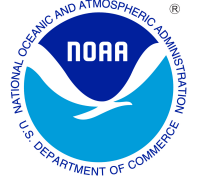




VOL. 62 NO. 9



ISSN 0027-0296

**SEPTEMBER 2009**

**MONTHLY  
CLIMATIC  
DATA  
FOR THE WORLD**

**PREPARED IN COOPERATION WITH THE  
WORLD METEOROLOGICAL ORGANIZATION**

**"I certify that this is an official publication of the National Oceanic and Atmospheric Administration and is compiled from information received at the National Climatic Data Center, Asheville, North Carolina 28801."**

**Director  
National Climatic Data Center**

**noaa**

**National  
Oceanic and  
Atmospheric Administration**

**National  
Environmental Satellite, Data  
and Information Service**

**National  
Climatic Data Center  
Asheville, North Carolina**

## PREFACE

Monthly Climatic Data for the World (MCDW) is a publication of monthly summary climatic data from around the world. Data are prepared by Members of the World Meteorological Organization (WMO) for selected stations and exchanged monthly via international telecommunications under provisions of the WMO Technical Regulations, WMO Publications No. 306 (Manual on Codes) and No. 386 (Manual on the Global Telecommunications System). National Center for Environmental Prediction (NCEP) and the Hadley Centre for Prediction and Research Meteorological Office, Bracknell, United Kingdom prepares and relays data to National Climatic Data Center for quality control, publication, and archive. Data used in MCDW are translated from CLIMAT, CLIMAT SHIP, CLIMAT TEMP and CLIMAT TEMP SHIP codes. WMO No. 9 (Weather Reporting), Vol. A - Stations indicates stations that report in these codes. MCDW is sponsored by the WMO in accordance with Resolution 27 of the Second World Meteorological Congress, 1955. Percent of average sunshine was authorized during the Fourth Session [Stockholm 1965] of the WMO Commission for Climatology and recorded in the General Summary of the Report - WMO NO.177.RP.65. It is published by the United States National Oceanic and Atmospheric Administration. Bolded stations are stations that participate in the GCOS Program.

## REFERENCE NOTES

Names of countries (areas) and stations are those used in WMO Publication No. 9, Vol. A - Stations, except that long names may be shortened. Only those stations authorized as contributors by the WMO in VOLUME A are published. "Means" and "totals" mentioned below are monthly summary means and totals. Units abbreviations: celsius = C, degrees = °, geopotential meters = gpm, meters = m, hectopascals = hPa, millimeters = mm, minutes = ', percent = %.

The long term surface data AVERAGES required for these tables were calculated for 1961 - 1990 from data received at the National Climatic Data Center during those years. Six years of data were considered to be the minimum for calculations.

Departures are differences between data and the AVERAGES for that month. Precipitation departure of "T" or "-T" indicates a difference less than 0.5 mm from AVERAGE.

Provisional upper air normals, although not published in this bulletin, can be obtained from WMO Pub. No. 170. A description of procedures used by Members appeared in Monthly Climatic Data for the World, 1967 Supplement -- computation of CLIMAT TEMP values.

Late reports and corrections are published when received, except that data more than five years old are not published. The Corrections sections include corrections to past data. In these, "D" indicates the data should be deleted. Some late reports of pre-1987 data appeared in the Corrections sections during the 1987 Data Year.

The data received by the publisher often contain errors. A reasonable effort is made to correct errors; but some may appear in the publication, especially if the errors are subtle or were part of a large group of errors.

The station list appears at the back of the publication. In January and July, all CLIMAT (C) and CLIMAT TEMP (T) stations from WMO Pub. No. 9, Vol. A are listed. This is the complete published station set. In other months, the list contains only those stations from which data no more than two months old have been recently received.

Included in this publication, on an interim basis, are a group of Antarctic and USA stations that are not in WMO No. 9. These stations will be sponsored as CLIMAT and/or CLIMAT TEMP stations in the near future.

## SURFACE DATA TABLES

**DAYS OBS.:** The number of days on which observations were taken. Column will be blank if days are not reported.

**PRESSURE:** Mean station pressure at station level and sea level in tenths of hPa. In the sea level pressure column, Y or Z indicates the number is the mean height in gpm of the 850 hPa or 700 hPa pressure surface, respectively.

**TEMPERATURE:** Mean temperature and departure from AVERAGE value in degrees C. "S" indicates sea surface temperature.

**DAYS 1 MM:** The number of days on which precipitation was 1 mm or more.

**PRECIPITATION:** Total precipitation and departure from AVERAGE in mm. "T" indicates an amount less than 0.5 mm.

**QUINTILE:** Frequency group of precipitation totals. Group numbers are 0 - 6. Groups 0 and 6 are for totals less than and greater than any recorded in the 1961 - 1990 reference period.

**% OF AV.:** Sunshine total hours expressed as a percentage of long-term average. Currently, average period is 1961-90.

In January 1987, the "Sunshine" column was changed to include both total sunshine in hours and the percentage of long-term average.

## UPPER AIR DATA TABLES

**HEIGHT:** Mean height of pressure surfaces in gpm. Asterisk (\*) indicates station elevation.

**VECTOR WIND:** Direction of mean vector wind in degrees, speed in mps. A wind speed value of 0 is a speed < 0.5 mps. When missing days equals 9, nine or more days of wind data are missing.

**STEADINESS:** Ratio of mean vector wind speed to mean scalar wind speed.

**OB:** Observation time code; 1 = 0000 GMT, 2 = 1200 GMT, 3 = 0000 and 1200 GMT, / = other hours.

The contents of this publication may be reprinted or otherwise used freely, with proper credit to the National Climatic Data Center, Asheville, North Carolina, USA.

## PUBLICATION STAFF

**William Angel, Meteorologist**

**Joe Kraft, Met. Tech.**

Monthly Climatic Data for the World (ISSN-0027-0296) is published monthly by the National Climatic Data Center, National Environmental Satellite, Data, and Information Service, NOAA, Asheville, North Carolina, USA. Subscription, price, and ordering information is available from the:

**NCDC Subscription Services Center  
310 State Route 956, Building 300  
Rocket Center, WV 26726**

# SURFACE

# SEPTEMBER 2009

| STATION                    | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|----------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                            |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>EUROPE</b>              |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>NORWAY</b>              |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 01001 JAN MAYEN            | 7056N    | 00840W    | 10        |           | 999.5        | 1000.7         | 3.8         | 1.0    | 6.9            | .5     | 12            | 39    | -43    | 1        |          |          |
| 01008 SVALBARD LUFTHAVN    | 7815N    | 01528E    | 29        |           | 995.7        | 999.0          | 1.7         | 1.3    | 5.3            | .1     | 3             | 8     | -12    | 2        |          |          |
| 01025 TROMSO/LANGNES       | 6941N    | 01855E    | 10        |           | 999.4        | 1000.5         | 8.4         | 1.5    | 9.2            | 1.2    | 27            | 202   | 102    | 6        |          |          |
| 01026 TROMSO               | 6939N    | 01856E    | 115       |           | 986.6        | 1000.3         | 8.1         |        | 8.8            |        | 27            | 215   |        | 6        | 66       | 72       |
| 01028 BJORNOYA             | 7431N    | 01901E    | 16        |           | 994.9        | 996.8          | 3.5         | .8     | 7.1            | .3     | 12            | 95    | 51     | 6        |          |          |
| 01098 VARDØ                | 7022N    | 03106E    | 15        |           | 997.6        | 999.3          | 8.3         | 1.7    | 9.3            | .9     | 11            | 42    | -12    | 2        |          |          |
| 01152 BODØ VI              | 6716N    | 01422E    | 13        |           | 1002.1       | 1003.7         | 9.9         | .9     | 9.9            | 1.0    | 24            | 275   | 152    | 6        | 34       | 35       |
| 01212 ONA II               | 6252N    | 00632E    | 15        |           | 1008.9       | 1010.5         | 12.2        |        | 11.6           |        | 23            | 229   |        | 4        |          |          |
| 01238 FOKSTUA II           | 6207N    | 00917E    | 974       |           | 899.0        | 1011.3         | 6.2         |        | 6.7            |        | 9             | 44    |        | 3        |          |          |
| 01241 ORLAND III           | 6342N    | 00936E    | 7         |           | 1008.0       | 1009.1         | 11.5        | 1.6    | 11.3           | 1.1    | 25            | 170   | 37     | 4        |          |          |
| 01317 BERGEN/FLORIDA       | 6023N    | 00520E    | 36        |           | 1012.9       | 1014.3         | 12.3        | .8     | 11.6           | .9     | 25            | 355   | 72     | 4        |          |          |
| 01384 OSLO/GARDERMOEN      | 6012N    | 01105E    | 204       |           | 988.1        | 1012.4         | 11.4        | 2.1    | 10.1           | 1.1    | 5             | 31    | -65    | 1        |          |          |
| 01403 UTSIRA FYR           | 5918N    | 00453E    | 56        |           | 1008.7       | 1015.3         | 13.0        |        | 12.5           |        | 15            | 74    |        | 1        |          |          |
| 01415 STAVANGER/SOLA       | 5853N    | 00538E    | 9         |           | 1014.8       | 1015.9         | 13.4        | 1.7    | 12.4           | 1.4    | 19            | 134   | -22    | 2        |          |          |
| 01465 TORUNGEN FYR         | 5824N    | 00848E    | 15        |           | 1013.5       | 1014.9         | 14.1        |        | 12.1           |        | 5             | 43    |        | 1        |          |          |
| <b>SWEDEN</b>              |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 02080 KARESUANDO           | 6827N    | 02227E    | 331       |           | 962.1        | 1000.9         | 7.1         | 2.1    |                |        | 10            | 59    | 14     | 4        | 145      | 132      |
| 02120 KVIKKJOKK-ARRENJARKA | 6653N    | 01801E    | 320       |           | 966.2        | 1003.6         | 8.1         |        | 8.4            |        | 12            | 55    |        | 3        |          |          |
| 02128 GUNNARN              | 6500N    | 01742E    | 283       |           | 973.2        | 1007.0         | 9.0         | 2.0    | 9.2            | 1.1    | 9             | 46    | -10    | 3        |          |          |
| 02226 OSTERSUND FROSON     | 6312N    | 01430E    | 376       |           | 964.5        | 1008.9         | 10.3        | 2.3    | 9.6            | 1.0    | 9             | 50    | -9     | 2        | 132      | 115      |
| 02366 TIMRA/MIDLANDA       | 6231N    | 01727E    | 8         |           | 1008.9       | 1009.5         | 11.1        | 1.7    | 10.8           | 1.2    | 6             | 28    | -38    | 1        |          |          |
| 02410 MALUNG               | 6041N    | 01342E    | 308       |           | 975.7        | 1012.6         | 10.0        |        | 10.3           |        | 8             | 59    |        | 2        |          |          |
| 02485 STOCKHOLM            | 5921N    | 01804E    | 52        |           | 1007.0       | 1013.3         | 14.1        | 2.2    | 12.6           | 1.8    | 7             | 32    | -23    | 2        | 214      | 139      |
| 02550 JONKOPING/AXAMO      | 5745N    | 01405E    | 224       |           | 988.5        | 1015.6         | 11.8        | 1.6    | 11.4           | 1.2    | 10            | 56    | -15    | 2        |          |          |
| 02590 VISBY                | 5740N    | 01821E    | 51        |           | 1009.3       | 1015.3         | 14.0        | 1.9    | 13.0           | 1.1    | 12            | 80    | 21     | 5        | 227      | 141      |
| <b>FINLAND</b>             |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 02801 KILPISJARVI          | 6903N    | 02047E    | 478       |           | 952.9        | 1012.0         | 11.5        |        | 11.0           |        | 12            | 47    |        | 3        |          |          |
| 02805 KEVO                 | 6945N    | 02702E    | 107       |           | 999.1        | 1012.5         | 12.2        |        | 11.3           |        | 11            | 71    |        | 4        | 146      | 100      |
| 02836 SODANKYLA            | 6722N    | 02639E    | 179       |           | 989.9        | 1012.3         | 13.8        | 7.9    | 11.9           |        | 11            | 94    | 39     | 5        | 219      | 205      |
| 02869 KUUSAMO              | 6558N    | 02911E    | 263       |           | 978.7        | 1011.6         | 14.0        | 7.9    | 11.9           |        |               |       |        |          |          |          |
| 02875 OULU                 | 6456N    | 02522E    | 15        |           | 1010.1       | 1012.0         | 15.3        | 6.9    | 13.3           |        |               |       |        |          | 274      | 219      |
| 02897 KAJAANI              | 6417N    | 02741E    | 143       |           | 995.9        | 1012.6         | 15.0        | 7.2    | 12.9           |        |               |       |        |          |          |          |
| 02929 JOENSUU              | 6240N    | 02938E    | 119       |           | 994.8        | 1009.6         | 11.4        | 2.8    | 11.4           |        |               |       |        |          |          |          |
| 02935 JYVASKYLA            | 6224N    | 02541E    | 145       |           | 996.1        | 1013.7         | 14.4        | 6.1    | 12.7           |        | 6             | 53    | -14    | 2        | 241      | 211      |
| 02942 NIINISALO            | 6151N    | 02228E    | 136       |           | 995.1        | 1010.7         | 11.3        | 2.5    | 11.5           |        | 8             | 41    | -32    | 1        |          |          |
| 02963 JOKIOINEN            | 6049N    | 02330E    | 104       |           | 998.9        | 1011.8         | 11.9        | 2.5    | 11.6           |        | 8             | 46    | -19    | 1        |          |          |

# SURFACE

# SEPTEMBER 2009

| STATION                           | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|-----------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                   |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 02972 TURKU                       | 6031N    | 02216E    | 59        |           | 1004.8       | 1012.1         | 12.7        | 2.4    | 12.3           |        |               |       |        |          |          |          |
| 02974 HELSINKI-VANTAA             | 6019N    | 02458E    | 56        |           | 1005.6       | 1012.7         | 12.9        | 2.9    | 12.4           |        | 11            | 37    | -36    | 1        | 163      | 122      |
| <b>UNITED KINGDOM</b>             |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>03005 LERWICK</b>              | 6008N    | 00111W    | 84        |           | 1003.2       | 1013.2         | 11.7        | 1.6    | 11.8           |        | 16            | 75    | -43    | 1        | 106      | 113      |
| <b>03026 STORNOWAY AIRPORT</b>    | 5813N    | 00619W    | 15        |           | 1013.8       | 1015.3         | 12.6        | 1.5    | 12.6           |        | 17            | 88    | -28    | 2        | 65       | 64       |
| 03066 KINLOSS                     | 5739N    | 00334W    | 7         |           | 1015.8       | 1016.6         | 13.4        | 1.4    | 11.7           |        | 10            | 106   | 48     | 5        | 130      | 125      |
| 03091 DYCE                        | 5712N    | 00213W    | 69        |           | 1009.1       | 1017.0         | 13.1        | 1.4    | 11.5           |        | 4             | 103   | 35     | 5        | 120      | 104      |
| 03100 TIREE                       | 5630N    | 00653W    | 12        |           | 1016.7       | 1018.4         | 13.0        | .9     | 13.3           |        | 16            | 72    | -58    | 1        | 92       | 83       |
| <b>03162 ESKDALEMUIR</b>          | 5519N    | 00312W    | 242       |           | 991.7        | 1020.2         | 11.9        | 1.2    | 11.6           |        | 10            | 91    | -58    | 1        | 81       | 86       |
| 03257 LEEMING                     | 5418N    | 00132W    | 40        |           | 1016.6       | 1020.7         | 13.8        | .6     | 12.2           |        | 5             | 21    | -29    | 1        | 121      | 98       |
| <b>03302 VALLEY</b>               | 5315N    | 00432W    | 11        |           | 1020.8       | 1022.2         | 14.0        | .2     | 13.6           |        | 4             | 29    | -45    | 1        | 127      | 91       |
| <b>03377 WADDINGTON</b>           | 5310N    | 00031W    | 70        |           | 1012.7       | 1021.5         | 14.7        | 1.1    | 12.3           |        | 3             | 16    | -31    | 1        | 142      | 104      |
| 03502 ABERPORTH                   | 5208N    | 00434W    | 134       |           | 1006.2       | 1022.4         | 13.5        | .2     | 12.9           |        | 5             | 21    | -55    | 1        | 145      | 108      |
| 03740 LYNEHAM                     | 5130N    | 00159W    | 147       |           | 1005.1       | 1022.8         | 14.0        | .5     | 12.7           |        | 3             | 12    | -51    | 0        | 151      | 106      |
| 03797 MANSTON                     | 5121N    | 00120E    | 54        |           | 1015.6       | 1021.5         | 16.2        | 1.4    | 13.8           |        | 2             | 19    | -37    | 2        | 191      | 121      |
| <b>03808 CAMBORNE</b>             | 5013N    | 00519W    | 88        |           | 1012.7       | 1023.4         | 14.3        |        | 13.5           |        | 4             | 38    |        | 1        | 163      | 105      |
| 03862 HURN                        | 5047N    | 00150W    | 11        |           | 1021.2       | 1022.5         | 14.6        | .8     | 12.9           |        | 5             | 41    | -25    | 3        | 171      | 112      |
| 03917 ALDERGROVE                  | 5439N    | 00613W    | 81        |           | 1013.2       | 1020.9         | 13.3        | .9     | 12.8           |        | 10            | 32    | -53    | 1        | 119      | 109      |
| <b>IRELAND</b>                    |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>03953 VALENTIA OBSERVATORY</b> | 5156N    | 01015W    | 30        |           | 1019.7       | 1023.4         | 13.6        | -.1    | 12.8           | -.6    | 10            | 93    | -32    | 2        | 139      | 125      |
| 03955 CORK AIRPORT                | 5151N    | 00829W    | 162       |           | 1003.5       | 1023.1         | 12.9        | .3     | 12.2           | -.6    | 5             | 55    | -42    | 2        | 154      | 125      |
| 03962 SHANNON AIRPORT             | 5242N    | 00855W    | 20        |           | 1020.3       | 1022.6         | 13.9        | .4     | 12.8           | -.1    | 8             | 58    | -24    | 2        | 133      | 120      |
| 03967 CASEMENT AERODROME          | 5318N    | 00626W    | 97        |           | 1010.7       | 1022.0         | 12.8        |        | 12.5           |        | 6             | 29    |        |          | 128      | 105      |
| 03969 DUBLIN AIRPORT              | 5326N    | 00615W    | 85        |           | 1011.5       | 1021.9         | 12.6        | -.4    | 12.2           | -.1    | 5             | 24    | -42    | 1        | 135      | 105      |
| 03973 CONNAUGHT AIRPORT           | 5354N    | 00849W    | 209       |           | 996.5        | 1021.6         | 11.9        |        | 12.1           |        | 11            | 47    |        |          | 123      |          |
| 03976 BELMULLET                   | 5414N    | 01000W    | 10        |           | 1020.0       | 1021.2         | 13.7        | .7     | 13.3           | .6     | 7             | 51    | -58    | 1        | 128      | 115      |
| <b>03980 MALIN HEAD</b>           | 5522N    | 00720W    | 25        |           | 1016.8       | 1019.8         | 13.3        | .6     | 12.9           | .7     | 15            | 71    | -31    | 2        | 118      | 110      |
| <b>ICELAND</b>                    |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 04018 KEFLAVIKURFLUGVOLLUR        | 6358N    | 02236W    | 54        |           | 996.0        | 1002.9         | 8.5         |        | 9.0            |        | 18            | 109   |        | 4        |          |          |
| 04030 REYKJAVIK                   | 6408N    | 02156W    | 61        |           | 995.0        | 1003.0         | 8.4         | 1.0    | 8.8            | .6     | 18            | 78    | 12     | 4        | 72       | 58       |
| 04063 AKUREYRI                    | 6541N    | 01805W    | 27        |           | 999.0        | 1002.5         | 7.9         | 1.6    | 7.6            | .0     | 9             | 43    | 4      | 3        | 110      | 129      |
| 04082 AKURNES                     | 6418N    | 01513W    | 21        |           | 1003.0       | 1004.2         | 8.7         |        | 9.0            |        | 12            | 85    |        | 2        |          |          |
| <b>GREENLAND</b>                  |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 04220 AASIAAT (EGEDSMINDE)        | 6842N    | 05251W    | 43        |           |              | 1003.5         | 2.6         | .2     | 6.0            |        |               |       |        |          |          |          |
| 04312 STATION NORD AWS            | 8136N    | 01641W    | 36        |           |              | 1005.9         | -6.8        | 2.1    | 3.2            |        |               |       |        |          |          |          |
| <b>04320 DANMARKSHAVN</b>         | 7646N    | 01840W    | 12        |           |              | 1004.2         | -3.5        | .7     | 3.3            |        |               |       |        |          |          |          |
| <b>04360 TASILAQ (AMMASSALIK)</b> | 6536N    | 03738W    | 52        |           |              | 1002.5         | 3.4         | .3     | 5.5            |        | 7             | 45    | -30    |          |          |          |
| 04390 PRINS CHRISTIAN SUND        | 6003N    | 04310W    | 88        |           |              | 1002.7         | 5.0         | .5     | 6.3            |        |               |       |        |          |          |          |

# SURFACE

# SEPTEMBER 2009

| STATION                                | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|--|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|  |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>DENMARK AND FAROE ISLANDS</b>       |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 06011 TORSHAVN                         | 6201N    | 00646W    | 61        |           |              | 1008.8         | 10.7        | 1.6    | 11.2           |        | 21            | 127   | -15    |          |          |          |
| 06030 AALBORG                          | 5706N    | 00951E    | 13        |           |              | 1016.4         | 14.3        | 1.9    | 12.8           |        | 4             | 22    |        |          |          |          |
| 06186 KOEBENHAVN/LANDBOHOEJSKOLEN      | 5541N    | 01233E    | 7         |           |              | 1017.8         | 15.4        |        | 12.7           |        | 7             | 30    |        |          |          |          |
| 06190 ROENNE                           | 5504N    | 01445E    | 17        |           |              | 1018.4         | 15.5        | 1.5    | 13.7           |        |               |       |        |          |          |          |
| <b>NETHERLANDS</b>                     |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 06235 DE KOOY                          | 5256N    | 00447E    | 2         |           | 1020.4       | 1020.5         | 15.9        | 1.3    | 13.7           | .1     | 6             | 27    | -56    | 1        | 161      | 115      |
| 06260 DE BILT                          | 5206N    | 00511E    | 4         |           | 1020.5       | 1020.8         | 15.0        | 1.0    | 13.9           | .5     | 6             | 34    | -33    | 1        | 160      | 119      |
| 06280 EELDE/GRONINGEN AP EELDE         | 5307N    | 00635E    | 4         |           | 1019.5       | 1020.0         | 14.5        | 1.1    | 13.7           | .3     | 7             | 47    | -23    | 2        | 145      | 112      |
| 06310 VLISSINGEN                       | 5127N    | 00336E    | 10        |           | 1020.1       | 1021.1         | 16.6        | 1.3    | 14.2           | .1     | 4             | 12    | -50    | 1        | 187      | 131      |
| <b>LUXEMBOURG</b>                      |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 06590 LUXEMBOURG/LUXEMBOURG            | 4937N    | 00613E    | 376       |           | 976.4        | 1020.7         | 15.4        |        | 13.1           |        | 5             | 56    | -14    | 3        | 173      | 109      |
| <b>SWITZERLAND &amp; LIECHTENSTEIN</b> |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 06610 PAYERNE                          | 4649N    | 00657E    | 491       |           | 962.6        | 1019.7         | 15.4        |        | 13.7           |        | 5             | 35    |        |          | 186      | 105      |
| 06660 ZUERICH-METEOSCHWEIZ             | 4723N    | 00834E    | 569       |           | 955.1        | 1019.5         | 15.4        | 1.5    | 13.6           | 1.0    | 8             | 69    | -25    | 2        | 165      | 104      |
| 06680 SAENTIS                          | 4715N    | 00921E    | 2502      |           | 757.2        | 3131 Z         | 4.9         | 1.3    | 6.8            | 1.0    | 12            | 175   | -36    | 2        | 190      | 108      |
| 06700 GENEVE-COINTRIN                  | 4615N    | 00608E    | 420       |           | 971.0        | 1019.0         | 16.6        | 1.7    | 14.0           | 1.8    | 7             | 62    | -18    | 3        | 179      | 97       |
| 06717 GRAND ST. BERNARD                | 4552N    | 00710E    | 2479      |           | 757.8        | 3134 Z         | 6.0         |        | 7.2            |        | 8             | 64    |        |          | 175      | 100      |
| 06770 LUGANO                           | 4600N    | 00858E    | 276       |           | 983.1        | 1018.1         | 18.8        | 1.9    | 16.1           | 1.8    | 8             | 121   | -39    | 3        | 221      | 117      |
| <b>FRANCE</b>                          |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 07005 ABBEVILLE                        | 5008N    | 00150E    | 77        |           | 1012.5       | 1021.7         | 15.4        |        | 13.7           |        | 5             | 30    |        | 1        | 172      | 110      |
| 07015 LILLE                            | 5034N    | 00306E    | 52        |           | 1015.7       | 1021.3         | 16.0        |        | 13.4           |        | 5             | 26    |        |          | 176      | 115      |
| 07020 LA HAGUE                         | 4943N    | 00156W    | 12        |           | 1021.7       | 1022.5         | 16.5        |        | 15.5           |        | 4             | 22    |        | 1        |          |          |
| 07027 CAEN                             | 4911N    | 00027W    | 67        |           | 1014.0       | 1022.0         | 15.4        | .7     | 13.8           |        | 5             | 24    | -37    | 2        | 190      | 113      |
| 07037 ROUEN                            | 4923N    | 00111E    | 156       |           | 1003.5       | 1021.6         | 15.4        |        | 13.3           |        | 4             | 20    |        |          | 169      | 100      |
| 07070 REIMS                            | 4918N    | 00402E    | 91        |           | 1010.1       | 1021.0         | 15.5        |        | 13.3           |        | 4             | 26    |        |          | 181      | 105      |
| 07110 BREST                            | 4827N    | 00425W    | 99        |           | 1011.2       | 1022.6         | 14.5        | -2     | 14.3           |        | 4             | 37    | -43    | 1        | 151      | 90       |
| 07117 PLOUMANAC'H PERROS GUIREC        | 4850N    | 00328W    | 58        |           | 1015.5       | 1022.5         | 15.9        |        | 14.4           |        | 3             | 6     |        | 0        |          |          |
| 07130 RENNES                           | 4804N    | 00144W    | 43        |           | 1016.4       | 1021.6         | 15.9        |        | 13.6           |        | 6             | 38    |        |          | 219      | 120      |
| 07139 ALENCON                          | 4826N    | 00006E    | 144       |           | 1004.2       | 1021.4         | 15.5        |        | 13.0           |        | 5             | 19    |        | 1        | 193      | 115      |
| 07149 PARIS-ORLY                       | 4843N    | 00223E    | 90        |           | 1010.4       | 1021.1         | 16.5        |        | 13.3           |        | 5             | 35    |        |          | 190      |          |
| 07168 TROYES                           | 4820N    | 00401E    | 118       |           | 1006.7       | 1020.7         | 15.9        |        | 13.3           |        | 5             | 31    |        |          | 194      |          |
| 07181 NANCY-OCHEY                      | 4835N    | 00558E    | 351       |           | 980.2        | 1020.5         | 15.1        |        | 13.4           |        | 5             | 27    |        |          |          |          |
| 07190 STRASBOURG-ENTZHEIM              | 4833N    | 00738E    | 153       |           | 1001.9       | 1020.1         | 16.4        | 1.4    | 13.6           |        | 3             | 13    | -42    | 1        | 192      | 115      |
| 07207 POINTE DU TALUT                  | 4718N    | 00310W    | 43        |           | 1016.5       | 1021.7         | 16.7        |        | 15.4           |        | 6             | 27    |        |          |          |          |
| 07222 NANTES                           | 4709N    | 00136W    | 27        |           | 1017.6       | 1020.8         | 17.2        | .8     | 13.9           |        | 6             | 44    | -18    | 2        | 233      | 122      |
| 07240 TOURS                            | 4727N    | 00044E    | 112       |           | 1007.3       | 1020.6         | 16.9        |        | 12.8           |        | 7             | 30    |        |          | 214      | 115      |
| 07255 BOURGES                          | 4704N    | 00222E    | 166       |           | 1000.7       | 1020.3         | 16.8        | .8     | 13.6           |        | 8             | 57    | -4     | 2        | 219      | 118      |
| 07280 DIJON                            | 4716N    | 00505E    | 227       |           | 993.2        | 1019.9         | 16.8        | 1.1    | 14.1           |        | 6             | 41    | -25    | 2        | 226      | 117      |

# SURFACE

# SEPTEMBER 2009

| STATION                            | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|------------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                    |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 07299 BALE-MULHOUSE                | 4736N    | 00731E    | 271       |           | 987.8        | 1019.9         | 15.9        |        | 14.2           |        | 7             | 40    |        |          | 179      | 100      |
| 07314 CHASSIRON                    | 4603N    | 00125W    | 22        |           | 1017.5       | 1020.2         | 18.2        |        | 16.4           |        | 6             | 30    |        |          |          |          |
| 07335 POITIERS                     | 4635N    | 00018E    | 120       |           | 1006.1       | 1020.8         | 16.5        |        | 13.4           |        | 6             | 52    |        |          | 205      | 105      |
| 07434 LIMOGES                      | 4552N    | 00111E    | 402       |           | 972.6        | 1019.5         | 16.8        |        | 13.2           |        | 7             | 27    |        |          | 220      | 105      |
| 07460 CLERMONT-FERRAND             | 4547N    | 00310E    | 330       |           | 981.4        | 1019.8         | 16.5        |        | 13.3           |        | 4             | 25    |        |          | 186      | 90       |
| 07471 LE PUY                       | 4505N    | 00346E    | 833       |           | 924.5        | 1536 Y         | 13.5        |        | 11.9           |        | 7             | 56    |        |          | 154      |          |
| 07481 LYON-SATOLAS                 | 4544N    | 00505E    | 248       |           | 991.0        | 1019.1         | 17.3        |        | 14.0           |        | 6             | 43    |        |          |          |          |
| 07510 BORDEAUX MERIGNAC            | 4450N    | 00041W    | 61        |           | 1012.9       | 1019.3         | 18.7        |        | 14.2           |        | 6             | 49    | -24    | 2        | 244      | 115      |
| 07535 GOURDON                      | 4445N    | 00124E    | 261       |           | 988.4        | 1018.9         | 17.3        |        | 13.5           |        | 5             | 53    |        |          | 241      | 115      |
| 07560 MONT AIGOUAL                 | 4407N    | 00335E    | 1567      |           | 847.0        | 1535 Y         | 11.2        |        | 9.7            |        | 6             | 44    |        |          |          |          |
| 07577 MONTELMAR                    | 4435N    | 00444E    | 74        |           | 1009.4       | 1018.1         | 19.6        |        | 14.4           |        | 4             | 57    |        |          | 253      | 105      |
| 07591 EMBRUN                       | 4434N    | 00630E    | 876       |           | 918.4        | 1531 Y         | 16.6        |        | 9.1            |        | 9             | 27    |        |          | 222      | 90       |
| 07607 MONT-DE-MARSAN               | 4355N    | 00030W    | 60        |           | 1012.3       | 1019.2         | 18.2        |        | 14.8           |        | 4             | 73    |        |          | 202      | 100      |
| 07621 TARBES-OSSUN                 | 4311N    | 00000W    | 364       |           | 976.9        | 1019.2         | 17.4        |        | 14.5           |        | 7             | 29    |        | 1        | 186      | 95       |
| 07627 SAINT GIRONS                 | 4300N    | 00106E    | 412       |           | 971.2        | 1018.9         | 17.0        |        | 13.9           |        | 8             | 26    |        | 1        | 193      | 95       |
| <b>07630 TOULOUSE BLAGNAC</b>      | 4338N    | 00122E    | 154       |           | 1000.2       | 1018.6         | 19.5        |        | 13.4           |        | 4             | 32    | -15    | 2        | 214      | 100      |
| 07643 MONTPELLIER                  | 4335N    | 00358E    | 8         |           | 1016.7       | 1017.6         | 20.9        |        | 15.1           |        | 4             | 9     |        | 1        | 270      | 110      |
| 07650 MARIGNANE                    | 4327N    | 00514E    | 32        |           | 1013.3       | 1017.1         | 21.2        |        | 16.2           |        | 6             | 214   | 168    | 6        | 271      | 105      |
| 07661 CAP CEPET                    | 4305N    | 00556E    | 136       |           | 1001.0       | 1016.5         | 21.3        |        | 17.0           |        | 5             | 116   |        |          |          |          |
| 07690 NICE                         | 4339N    | 00712E    | 27        |           | 1013.5       | 1016.8         | 22.2        |        | 15.9           |        | 6             | 93    | 39     | 2        | 263      | 110      |
| 07747 PERIGNAN                     | 4244N    | 00252E    | 47        |           | 1012.7       | 1018.2         | 21.2        |        | 14.8           |        | 4             | 12    | -35    | 2        | 245      | 110      |
| 07761 AJACCIO                      | 4155N    | 00848E    | 9         |           | 1015.3       | 1016.3         | 21.5        |        | 17.4           |        | 4             | 35    | -8     | 2        | 269      | 100      |
| 07790 BASTIA                       | 4233N    | 00929E    | 12        |           | 1015.0       | 1016.4         | 21.7        |        | 17.4           |        | 6             | 59    |        |          | 261      | 105      |
| <b>SPAIN</b>                       |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 08001 LA CORUNA                    | 4322N    | 00825W    | 67        |           | 1010.9       | 1018.9         | 19.3        | 1.2    | 15.9           | -4     | 3             | 34    | -28    | 2        | 265      | 152      |
| 08015 OVIEDO                       | 4321N    | 00552W    | 339       |           | 979.7        | 1019.0         | 17.7        | .3     | 16.3           | 1.0    | 3             | 48    | -3     | 4        | 201      | 131      |
| 08023 SANTANDER                    | 4329N    | 00348W    | 59        |           | 1013.2       | 1020.1         | 19.0        | .4     | 18.1           | 1.6    | 7             | 115   | 23     | 4        | 219      | 135      |
| 08025 BILBAO/SONDICA               | 4318N    | 00254W    | 42        |           | 1015.5       | 1020.1         | 19.2        |        | 16.8           |        | 7             | 188   |        | 5        | 138      | 90       |
| <b>08027 SAN SEBASTIAN/IGUELDO</b> | 4318N    | 00202W    | 259       |           | 989.2        | 1019.5         | 17.6        | -.3    | 17.1           | .8     | 8             | 152   | 37     | 4        | 162      | 101      |
| 08045 VIGO/PEINADOR                | 4214N    | 00838W    | 256       |           | 988.2        | 1018.1         | 19.7        | 1.7    | 15.0           | -8     | 4             | 25    | -87    | 1        | 284      | 133      |
| 08048 ORENSE                       | 4220N    | 00752W    | 147       |           | 1000.0       | 1017.0         | 21.1        |        | 14.5           |        | 1             | 3     |        | 0        | 258      | 120      |
| 08053 PONFERRADA                   | 4234N    | 00636W    | 550       |           | 955.1        | 1017.5         | 19.8        |        | 12.2           |        | 2             | 6     |        | 1        | 293      | 145      |
| 08055 LEON/VIRGEN DEL CAMINO       | 4235N    | 00539W    | 916       |           | 915.0        | 1016.8         | 16.9        |        | 10.3           |        | 01            | 1     |        | 1        | 293      | 120      |
| 08075 BURGOS/VILLAFRIA             | 4221N    | 00338W    | 890       |           | 917.4        | 1540 Y         | 16.3        | .5     | 12.0           | -7     | 4             | 30    | -9     | 3        | 230      | 106      |
| 08084 LOGRONO/AGONCILLO            | 4227N    | 00220W    | 363       |           | 976.5        | 1018.2         | 19.8        | .6     | 12.9           | -7     | 3             | 32    | 4      | 4        | 258      | 119      |
| 08085 PAMPLONA/NOAIN               | 4246N    | 00138W    | 459       |           | 966.4        | 1018.3         | 19.1        |        | 13.7           |        | 4             | 44    |        | 4        | 220      | 95       |
| 08130 ZAMORA                       | 4131N    | 00544W    | 667       |           | 942.1        | 1017.2         | 19.3        |        | 11.5           |        | 2             | 8     |        | 2        |          |          |
| 08141 VALLADOLID                   | 4139N    | 00446W    | 735       |           | 933.4        | 1015.9         | 18.9        | .7     | 11.2           | .2     | 3             | 8     | -25    | 2        | 290      | 120      |
| 08148 SORIA                        | 4146N    | 00228W    | 1082      |           | 896.8        |                | 16.4        |        |                |        | 3             | 24    |        | 3        |          |          |
| 08160 ZARAGOZA/AEROPUERTO          | 4140N    | 00100W    | 263       |           | 987.5        | 1017.1         | 21.7        | 1.1    | 13.9           | -1.1   | 4             | 16    | -10    | 3        | 272      | 117      |
| 08171 LERIDA                       | 4138N    | 00036E    | 199       |           | 994.4        | 1017.4         | 21.6        |        | 15.9           |        | 4             | 52    |        | 4        | 277      | 110      |
| 08175 REUS/AEROPUERTO              | 4109N    | 00110E    | 76        |           | 1008.4       | 1017.3         | 20.8        |        | 15.0           |        | 4             | 18    |        |          | 216      |          |
| <b>08181 BARCELONA/AEROPUERTO</b>  | 4117N    | 00204E    | 6         |           | 1016.7       | 1017.3         | 22.2        | 1.2    | 16.7           | -2.4   | 6             | 42    | -37    | 2        |          |          |
| <b>08202 SALAMANCA/MATACAN</b>     | 4057N    | 00530W    | 794       |           | 927.4        | 1016.3         | 17.8        | .3     | 10.3           | -2.5   | 3             | 10    | -21    | 2        | 300      | 124      |
| <b>08215 NAVACERRADA</b>           | 4047N    | 00401W    | 1894      |           |              |                | 13.3        |        |                |        | 4             | 16    |        | 2        |          |          |

# SURFACE

# SEPTEMBER 2009

| STATION                            | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|------------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                    |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 08221 MADRID/BARAJAS               | 4030N    | 00335W    | 633       |           | 950.4        | 1015.8         | 21.2        | .9     | 10.8           | -2.2   | 5             | 20    | -7     | 3        | 234      | 94       |
| 08231 CUENCA                       | 4004N    | 00208W    | 946       |           | 910.6        | 1536 Y         | 19.4        |        | 11.3           |        | 5             | 58    |        | 5        | 227      | 100      |
| 08235 TERUEL                       | 4021N    | 00107W    | 902       |           | 916.1        |                | 17.7        |        | 13.1           |        | 8             | 45    |        |          |          |          |
| 08238 TORTOSA                      | 4049N    | 00030E    | 50        |           | 1010.7       | 1016.5         | 23.6        | .8     | 18.0           | -7     | 6             | 116   | 46     | 4        | 224      | 103      |
| 08261 CACERES                      | 3928N    | 00620W    | 405       |           | 970.9        | 1016.7         | 22.9        | .2     | 13.5           | 1.4    | 4             | 24    | -1     | 4        | 268      | 105      |
| 08272 TOLEDO                       | 3953N    | 00403W    | 516       |           | 957.4        | 1015.6         | 22.2        |        | 13.4           |        | 4             | 16    |        | 3        | 258      | 100      |
| <b>08280 ALBACETE/LOS LLANOS</b>   | 3857N    | 00151W    | 704       |           | 937.9        | 1017.0         | 19.9        | -1     | 13.2           | -6     | 7             | 32    | 8      | 4        | 216      | 88       |
| 08284 VALENCIA/AEROPUERTO          | 3930N    | 00028W    | 69        |           | 1009.8       | 1017.0         | 21.8        | -8     | 16.1           | -3.1   | 9             | 131   | 84     | 5        | 119      | 51       |
| 08286 CASTELLON                    | 3957N    | 00004W    | 35        |           | 1012.1       | 1016.2         | 22.8        |        | 17.3           |        | 11            | 330   |        |          |          |          |
| 08301 PALMA DE MALLORCA            | 3933N    | 00237E    | 6         |           |              |                | 23.3        |        | 21.1           |        | 12            | 208   |        | 6        | 216      | 95       |
| 08306 PALMA DE MALLORCA/SON SAN JU | 3933N    | 00244E    | 7         |           | 1016.5       | 1017.1         | 22.2        | .6     | 19.7           | -4     | 11            | 222   | 173    | 6        | 219      | 89       |
| 08314 MENORCA/MAHON                | 3952N    | 00414E    | 89        |           | 1006.8       | 1016.8         | 22.8        | .6     | 20.5           | .5     | 11            | 193   | 139    | 6        | 201      | 88       |
| 08330 BADAJOZ/TALAVERA LA REAL     | 3853N    | 00650W    | 192       |           | 993.8        | 1015.8         | 23.8        | 1.3    | 14.4           | -1.0   | 1             | 3     | -21    | 2        | 263      | 102      |
| 08348 CIUDAD REAL                  | 3859N    | 00355W    | 629       |           | 946.0        | 1016.5         | 21.5        | .6     | 14.1           | -6     | 3             | 15    | -9     | 3        | 218      | 88       |
| 08359 ALICANTE                     | 3822N    | 00030W    | 82        |           | 1007.0       | 1016.4         | 23.1        | -2     | 21.0           | 1.2    | 12            | 309   | 268    | 6        | 214      | 85       |
| 08360 ALICANTE/EL ALTET            | 3817N    | 00033W    | 43        |           | 1012.9       | 1016.5         | 21.9        |        | 16.3           |        | 9             | 129   |        |          | 185      |          |
| 08373 IBIZA/ES CODOLA              | 3853N    | 00123E    | 17        |           |              |                | 23.1        | -4     |                |        | 9             | 204   | 162    | 6        |          |          |
| 08383 HUELVA                       | 3717N    | 00655W    | 20        |           | 1014.2       | 1016.4         | 23.7        |        | 17.3           |        | 2             | 6     |        | 3        |          |          |
| 08391 SEVILLA/SAN PABLO            | 3725N    | 00554W    | 34        |           | 1011.8       | 1015.4         | 25.6        |        | 15.5           |        | 2             | 29    |        | 4        | 241      | 90       |
| <b>08410 CORDOBA/AEROPUERTO</b>    | 3751N    | 00451W    | 92        |           | 1005.0       | 1015.6         | 24.3        | .5     | 13.7           | -2.1   | 2             | 27    | 1      | 4        | 230      | 93       |
| 08417 JAEN                         | 3747N    | 00348W    | 582       |           | 951.7        | 1016.8         | 22.3        |        | 14.6           |        | 4             | 55    |        | 6        |          |          |
| 08419 GRANADA/AEROPUERTO           | 3711N    | 00347W    | 570       |           | 951.3        | 1015.7         | 20.0        |        | 13.0           |        | 6             | 27    |        | 5        | 211      | 80       |
| 08430 MURCIA                       | 3800N    | 00110W    | 62        |           | 1009.6       | 1016.8         | 23.8        |        | 18.2           |        | 7             | 113   |        | 6        | 209      | 85       |
| 08433 MURCIA/SAN JAVIER            | 3747N    | 00048W    | 5         |           | 1016.3       | 1016.6         | 23.1        | .4     | 18.7           | -2.6   | 7             | 119   | 88     | 5        | 223      | 113      |
| 08451 JEREZ DE LA FRONTERA AEROPUE | 3645N    | 00604W    | 28        |           | 1012.8       | 1016.0         | 24.2        | .6     | 17.8           | -2     | 4             | 23    | 4      | 4        | 238      | 93       |
| 08482 MALAGA/AEROPUERTO            | 3640N    | 00429W    | 16        |           | 1015.6       | 1016.4         | 23.8        | .7     | 18.3           | -3     | 2             | 9     | -5     | 4        | 246      | 98       |
| 08487 ALMERIA/AEROPUERTO           | 3651N    | 00223W    | 21        |           | 1013.6       | 1016.1         | 24.0        | -1     | 17.8           | -2.4   | 3             | 37    | 27     | 5        | 237      | 94       |
| <b>GIBRALTAR</b>                   |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 08495 GIBRALTAR                    | 3609N    | 00521W    | 5         |           | 1015.6       | 1016.4         | 21.7        |        |                |        | 4             | 58    |        | 5        | 233      | 90       |
| <b>PORTUGAL</b>                    |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 08501 FLORES (ACORES)              | 3927N    | 03108W    | 29        |           | 1017.5       | 1021.2         | 21.9        |        | 20.6           |        | 13            | 147   |        | 4        | 184      | 115      |
| 08509 LAJES (ACORES)               | 3846N    | 02706W    | 54        |           | 1016.5       | 1022.9         | 21.0        |        | 20.3           |        | 8             | 126   |        | 4        | 185      | 90       |
| 08512 PONTA DELGADA/NORDELA (ACORE | 3744N    | 02542W    | 72        |           | 1014.2       | 1023.6         | 21.3        |        | 20.0           |        | 8             | 56    |        | 2        |          |          |
| <b>08535 LISBOA/GEOP</b>           | 3843N    | 00909W    | 95        |           | 1005.4       | 1016.5         | 21.7        | .0     | 14.5           | -2.6   | 1             | 9     | -17    | 3        | 272      | 104      |
| 08548 COIMBRA/CERNACHE             | 4009N    | 00828W    | 179       |           | 997.1        | 1017.1         | 20.1        |        | 14.3           |        | 2             | 18    |        |          | 276      |          |
| 08558 EVORA/C. COORD               | 3832N    | 00754W    | 246       |           | 987.8        | 1016.1         | 22.2        |        | 15.1           |        | 1             | 4     |        |          | 279      |          |
| 08570 CASTELO BRANCO               | 3950N    | 00729W    | 386       |           | 972.0        | 1016.1         | 22.5        |        | 11.7           |        | 2             | 10    |        |          | 275      |          |
| 08575 BRAGANCA                     | 4148N    | 00644W    | 692       |           | 938.2        | 1015.5         | 22.7        | 4.4    | 13.0           | 1.2    | 1             | 4     | -34    | 2        | 267      | 111      |
| <b>GERMANY</b>                     |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 10015 HELGOLAND                    | 5411N    | 00754E    | 8         |           | 1018.5       | 1019.5         | 16.2        |        | 14.4           |        | 7             | 73    |        |          | 157      | 105      |
| 10020 LIST/SYLT                    | 5501N    | 00825E    | 29        |           | 1015.2       | 1018.7         | 15.4        |        | 13.5           |        | 7             | 59    |        |          | 167      | 115      |



# SURFACE

# SEPTEMBER 2009

| STATION                          | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|----------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                  |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 10028 ST PETER-ORDING            | 5420N    | 00836E    | 11        |           | 1017.8       | 1019.1         | 15.4        |        | 13.8           |        | 7             | 50    |        |          | 168      | 130      |
| 10035 SCHLESWIG                  | 5432N    | 00933E    | 48        |           | 1013.4       | 1019.1         | 14.3        | 1.3    | 13.1           | .5     | 6             | 40    | -46    | 1        | 150      | 104      |
| 10055 WESTERMARKELSDORF          | 5432N    | 01104E    | 9         |           | 1017.8       | 1018.8         | 15.8        |        | 14.0           |        | 7             | 17    |        |          | 202      | 125      |
| 10091 ARKONA                     | 5441N    | 01326E    | 42        |           | 1013.3       | 1018.2         | 15.6        |        | 13.5           |        | 9             | 28    |        |          | 223      | 130      |
| 10113 NORDERNEY                  | 5343N    | 00709E    | 16        |           | 1017.8       | 1019.7         | 15.9        |        | 13.8           |        | 8             | 23    |        |          | 158      | 105      |
| 10129 BREMERHAVEN                | 5332N    | 00835E    | 11        |           | 1018.3       | 1019.6         | 15.5        |        | 13.5           |        | 6             | 24    |        |          | 160      | 120      |
| 10131 CUXHAVEN                   | 5352N    | 00842E    | 12        |           | 1017.7       | 1019.1         | 15.5        |        | 13.7           |        | 8             | 42    |        |          | 176      | 120      |
| 10142 ITZEHOE                    | 5359N    | 00934E    | 26        |           | 1016.7       | 1019.7         | 14.9        |        | 13.7           |        | 4             | 28    |        |          | 155      | 115      |
| <b>10147 HAMBURG-FUHLBUETTEL</b> | 5338N    | 00959E    | 16        |           | 1017.8       | 1019.6         | 14.9        | 1.4    | 12.6           | -.1    | 8             | 37    | -33    | 1        | 173      | 123      |
| 10161 BOLZENHAGEN                | 5400N    | 01112E    | 17        |           | 1017.3       | 1019.3         | 15.4        |        | 13.1           |        | 7             | 30    |        |          | 181      | 115      |
| 10162 SCHWERIN                   | 5339N    | 01123E    | 68        |           | 1011.2       | 1019.3         | 15.0        |        | 12.4           |        | 7             | 36    |        |          | 182      | 120      |
| 10170 ROSTOCK-WARNEMUENDE        | 5411N    | 01205E    | 10        |           | 1017.6       | 1019.2         | 15.9        | 2.0    | 13.0           | .0     | 8             | 28    | -26    | 1        | 208      | 132      |
| 10180 BARTH                      | 5420N    | 01243E    | 7         |           | 1018.6       | 1019.0         | 14.8        |        | 13.0           |        | 10            | 40    |        |          | 203      | 125      |
| 10184 GREIFSWALD                 | 5406N    | 01324E    | 6         |           | 1018.3       | 1019.1         | 14.9        |        | 13.0           |        | 9             | 43    |        |          | 196      | 120      |
| 10200 EMDEN-FLUGPLATZ            | 5323N    | 00714E    | 5         |           | 1019.7       | 1019.9         | 14.7        |        | 13.7           |        | 9             | 59    |        |          | 138      | 100      |
| 10215 OLDENBURG                  | 5311N    | 00810E    | 20        |           | 1018.5       | 1020.0         | 14.8        |        | 13.1           |        | 7             | 41    |        |          | 152      | 110      |
| 10224 BREMEN                     | 5303N    | 00848E    | 5         |           | 1019.4       | 1020.0         | 15.0        |        | 12.6           |        | 8             | 36    |        |          | 170      | 120      |
| 10249 BOIZENBURG                 | 5324N    | 01041E    | 46        |           | 1014.1       | 1019.5         | 15.1        |        | 12.7           |        | 6             | 29    |        |          | 164      | 110      |
| 10261 SEEHAUSEN                  | 5254N    | 01144E    | 23        |           | 1017.1       | 1019.9         | 15.1        |        | 12.0           |        | 7             | 24    |        |          | 196      | 135      |
| 10264 MARNITZ                    | 5319N    | 01156E    | 87        |           | 1008.9       | 1019.3         | 15.0        |        | 12.0           |        | 9             | 32    |        |          | 188      | 110      |
| 10270 NEURUPPIN                  | 5254N    | 01249E    | 45        |           | 1014.0       | 1019.3         | 15.1        |        | 12.5           |        | 8             | 29    |        |          | 209      | 140      |
| 10291 ANGERMUENDE                | 5302N    | 01400E    | 55        |           | 1012.8       | 1019.4         | 14.9        |        | 12.5           |        | 6             | 27    |        |          | 189      | 115      |
| 10305 LINGEN                     | 5231N    | 00718E    | 26        |           | 1016.8       | 1019.9         | 15.1        |        | 13.4           |        | 9             | 39    |        |          | 130      | 95       |
| 10315 MUENSTER/OSNABRUECK        | 5208N    | 00742E    | 53        |           | 1013.9       | 1020.2         | 14.8        |        | 12.7           |        | 7             | 38    |        |          | 151      | 105      |
| 10321 DIEPHOLZ                   | 5235N    | 00821E    | 43        |           | 1015.1       | 1020.2         | 14.7        |        | 12.8           |        | 8             | 30    |        |          | 153      | 110      |
| 10325 BAD SALZUFLEN              | 5206N    | 00845E    | 139       |           | 1004.2       | 1020.4         | 14.8        |        | 13.0           |        | 8             | 51    |        |          | 152      | 115      |
| 10338 HANNOVER                   | 5228N    | 00941E    | 59        |           | 1012.9       | 1020.0         | 15.4        | 1.7    | 12.4           | -.5    | 8             | 37    | -16    | 2        | 160      | 116      |
| 10348 BRAUNSCHWEIG               | 5218N    | 01027E    | 88        |           | 1009.5       | 1019.9         | 15.4        |        | 12.6           |        | 8             | 33    |        |          | 173      | 125      |
| 10359 GARDELEGEN                 | 5231N    | 01124E    | 48        |           | 1014.5       | 1020.3         | 14.9        |        | 12.3           |        | 8             | 26    |        |          | 183      | 125      |
| 10361 MAGDEBURG                  | 5206N    | 01135E    | 85        |           | 1009.5       | 1019.7         | 15.8        |        | 12.3           |        | 6             | 23    |        |          | 190      | 125      |
| 10379 POTSDAM                    | 5223N    | 01304E    | 100       |           | 1007.7       | 1019.6         | 15.4        | 1.5    | 12.5           | -.1    | 7             | 36    | -10    | 2        | 210      | 130      |
| 10382 BERLIN-TEGEL               | 5234N    | 01319E    | 37        |           | 1015.3       | 1019.7         | 16.0        |        | 12.2           |        | 8             | 37    |        |          | 210      | 135      |
| 10384 BERLIN-TEMPELHOF           | 5228N    | 01324E    | 50        |           | 1013.9       | 1019.7         | 16.4        |        | 12.7           |        | 9             | 30    |        |          | 205      | 130      |
| 10385 BERLIN-SCHOENEFELD         | 5223N    | 01332E    | 48        |           | 1013.8       | 1019.8         | 15.7        |        | 12.3           |        | 7             | 28    |        |          | 209      |          |
| <b>10393 LINDENBERG</b>          | 5213N    | 01407E    | 112       |           | 1007.6       | 1019.9         | 16.0        | 2.1    | 12.9           | .7     | 6             | 27    | -14    | 2        | 219      | 139      |
| 10396 MANSCHNOW                  | 5233N    | 01433E    | 16        |           | 1018.2       | 1019.8         | 15.5        |        | 12.5           |        | 5             | 35    |        |          | 222      | 150      |
| 10400 DUESSELDORF                | 5118N    | 00646E    | 45        |           | 1016.0       | 1020.8         | 15.6        |        | 13.5           |        | 7             | 28    |        |          | 154      | 110      |
| 10410 ESSEN-BREDENEY             | 5124N    | 00658E    | 161       |           | 1002.9       | 1020.7         | 15.5        | 1.1    | 13.1           | .1     | 9             | 34    | -39    | 1        | 148      | 110      |
| 10418 LUEDENSCHIED               | 5115N    | 00739E    | 392       |           | 974.6        | 1020.8         | 13.6        |        | 12.7           |        | 10            | 58    |        |          | 135      | 110      |
| 10427 KAHLER ASTEN               | 5111N    | 00829E    | 859       |           | 921.8        | 1531 Y         | 11.3        |        | 11.6           |        | 13            | 106   |        |          | 132      | 100      |
| 10430 BAD LIPPSPRINGE            | 5147N    | 00850E    | 158       |           | 1001.6       | 1020.4         | 14.9        |        | 12.9           |        | 10            | 66    |        |          | 143      | 110      |
| 10444 GOETTINGEN                 | 5130N    | 00957E    | 175       |           | 1000.5       | 1021.0         | 14.5        |        | 13.1           |        | 7             | 56    |        |          | 138      | 105      |
| 10449 LEINEFELDE                 | 5124N    | 01019E    | 356       |           | 978.9        | 1020.6         | 14.0        |        | 12.6           |        | 9             | 76    |        |          | 152      | 105      |
| 10453 BROCKEN                    | 5148N    | 01037E    | 1153      |           | 889.3        | 1526 Y         | 9.2         |        | 10.3           |        | 12            | 126   |        |          | 145      | 120      |
| 10460 ARTERN                     | 5123N    | 01118E    | 166       |           | 1000.7       | 1020.4         | 15.1        |        | 13.0           |        | 9             | 34    |        |          | 152      | 110      |
| 10469 LEIPZIG-SCHKEUDITZ         | 5126N    | 01214E    | 141       |           | 1003.9       | 1020.1         | 15.6        |        | 12.9           |        | 7             | 40    |        |          | 184      | 130      |

# SURFACE

# SEPTEMBER 2009

| STATION                       | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|-------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                               |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 10474 WITTENBERG              | 5153N    | 01239E    | 106       |           | 1007.3       | 1019.9         | 15.6        |        | 12.4           |        | 6             | 26    |        |          | 186      | 120      |
| 10480 OSCHATZ                 | 5118N    | 01306E    | 152       |           | 1002.4       | 1020.3         | 15.6        |        | 13.3           |        | 5             | 41    |        |          | 178      | 125      |
| 10488 DRESDEN-KLOTZSCHE       | 5108N    | 01345E    | 232       |           | 992.5        | 1019.9         | 15.6        |        | 12.7           |        | 4             | 26    |        |          | 184      | 120      |
| 10496 COTTBUS                 | 5146N    | 01419E    | 70        |           | 1011.4       | 1019.6         | 15.5        |        | 12.9           |        | 5             | 29    |        |          | 185      | 115      |
| 10499 GOERLITZ                | 5110N    | 01457E    | 240       |           | 991.8        | 1020.1         | 15.3        | 1.7    | 13.5           | 1.2    | 7             | 34    | -18    | 2        | 187      | 122      |
| 10501 AACHEN                  | 5047N    | 00606E    | 205       |           | 996.8        | 1021.1         | 15.2        |        | 13.3           |        | 7             | 23    |        |          | 146      | 95       |
| 10506 NUERBURG-BARWEILER      | 5022N    | 00652E    | 488       |           | 964.1        | 1021.0         | 13.5        |        | 12.6           |        | 7             | 28    |        |          | 136      | 90       |
| 10513 KOELN/BONN              | 5052N    | 00710E    | 100       |           | 1009.1       | 1020.9         | 15.4        |        | 13.4           |        | 8             | 36    |        |          | 158      | 110      |
| 10519 BONN-ROLEBER            | 5044N    | 00712E    | 162       |           | 1001.8       | 1020.9         | 15.3        |        | 13.3           |        | 8             | 31    |        |          | 160      | 110      |
| 10526 BAD MARIENBERG          | 5040N    | 00758E    | 555       |           | 955.9        | 1020.5         | 13.5        |        | 12.6           |        | 9             | 45    |        |          | 148      | 105      |
| 10532 GIESSEN                 | 5035N    | 00842E    | 195       |           | 995.9        | 1020.1         | 14.8        |        | 13.2           |        | 6             | 37    |        |          | 149      | 100      |
| 10542 BAD HERSFELD            | 5051N    | 00944E    | 273       |           | 988.9        | 1021.1         | 14.3        |        | 13.3           |        | 8             | 46    |        |          | 127      | 90       |
| 10544 WASSERKUPPE             | 5030N    | 00957E    | 925       |           | 914.3        | 1532 Y         | 11.6        |        | 11.7           |        | 11            | 92    |        |          | 141      | 95       |
| 10548 MEININGEN               | 5034N    | 01023E    | 453       |           | 967.4        | 1020.3         | 14.1        |        | 12.6           |        | 7             | 62    |        |          | 148      | 100      |
| 10554 ERFURT-BINDERSLEBEN     | 5059N    | 01058E    | 322       |           | 982.4        | 1020.4         | 14.5        |        | 12.7           |        | 8             | 61    |        |          | 149      | 95       |
| 10557 NEUHAUS A.R.            | 5030N    | 01108E    | 851       |           | 922.5        | 1532 Y         | 12.0        |        | 11.8           |        | 8             | 98    |        |          | 152      | 110      |
| 10567 GERA-LEUMNITZ           | 5053N    | 01208E    | 312       |           | 983.3        | 1020.0         | 14.7        |        | 12.8           |        | 8             | 48    |        |          | 163      | 105      |
| 10577 CHEMNITZ                | 5048N    | 01252E    | 420       |           | 970.9        | 1020.0         | 14.7        |        | 12.9           |        | 6             | 40    |        |          | 175      | 120      |
| 10578 FICHELBERG              | 5026N    | 01257E    | 1215      |           | 883.2        | 1532 Y         | 10.0        | 1.8    | 10.9           | 1.4    | 9             | 70    | -19    | 2        | 166      | 114      |
| 10582 ZINNWALD-GEORGENFELD    | 5044N    | 01345E    | 882       |           | 919.1        | 1532 Y         | 11.7        |        | 11.5           |        | 5             | 34    |        |          | 168      | 125      |
| 10591 LICHTENHAIN-MITTELNDORF | 5056N    | 01413E    | 352       |           | 982.8        | 1020.3         | 14.9        |        | 13.2           |        | 5             | 35    |        |          | 179      | 120      |
| 10609 TRIER-PETRISBERG        | 4945N    | 00640E    | 273       |           | 988.5        | 1020.8         | 15.1        | 1.1    | 13.1           | .5     | 5             | 37    | -22    | 2        | 153      | 101      |
| 10628 GEISENHEIM              | 4959N    | 00757E    | 123       |           | 1007.3       | 1020.5         | 16.4        | 1.7    | 12.8           | .0     | 5             | 30    | -11    | 3        | 167      | 106      |
| 10637 FRANKFURT/M-FLUGHAFEN   | 5003N    | 00836E    | 113       |           | 1006.9       | 1020.3         | 16.5        |        | 13.2           |        | 5             | 41    |        |          | 175      | 110      |
| 10648 MICHELSTADT-VIELBRUNN   | 4943N    | 00906E    | 455       |           | 966.9        | 1020.0         | 14.6        |        | 13.2           |        | 5             | 44    |        |          | 152      | 95       |
| 10655 WUERZBURG               | 4946N    | 00958E    | 272       |           | 988.0        | 1020.0         | 16.1        |        | 13.4           |        | 5             | 23    |        |          | 174      | 110      |
| 10658 BAD KISSINGEN           | 5014N    | 01005E    | 282       |           | 987.0        | 1020.2         | 14.9        |        | 13.1           |        | 7             | 45    |        |          | 171      | 120      |
| 10675 BAMBERG                 | 4953N    | 01055E    | 243       |           | 991.8        | 1020.3         | 15.0        |        | 13.1           |        | 6             | 35    |        |          | 174      | 110      |
| 10685 HOF                     | 5019N    | 01153E    | 568       |           | 954.4        | 1020.3         | 13.6        |        | 12.3           |        | 6             | 51    |        |          | 167      | 105      |
| 10688 WEIDEN                  | 4940N    | 01211E    | 439       |           | 969.0        | 1020.0         | 14.7        |        | 12.7           |        | 4             | 29    |        |          | 183      | 115      |
| 10708 SAARBRUECKEN/ENSHEIM    | 4913N    | 00707E    | 322       |           | 982.8        | 1020.5         | 14.9        |        | 13.2           |        | 4             | 30    |        |          | 180      | 105      |
| 10724 WEINBIET                | 4923N    | 00807E    | 557       |           | 954.7        | 1019.2         | 14.4        |        | 12.4           |        | 5             | 33    |        |          | 161      | 95       |
| 10729 MANNHEIM                | 4931N    | 00833E    | 100       |           | 1008.6       | 1020.5         | 16.6        |        | 13.1           |        | 5             | 31    |        |          | 163      | 95       |
| 10738 STUTTGART-ECHTERDINGEN  | 4841N    | 00914E    | 396       |           | 974.3        | 1020.0         | 15.5        |        | 12.8           |        | 3             | 16    |        |          | 178      | 105      |
| 10742 OEHRINGEN               | 4913N    | 00931E    | 277       |           | 987.8        | 1020.1         | 15.9        |        | 13.2           |        | 6             | 18    |        |          | 176      | 100      |
| 10761 WEISSENBURG             | 4901N    | 01058E    | 424       |           | 970.6        | 1019.7         | 15.2        |        | 12.4           |        | 5             | 20    |        |          | 178      | 105      |
| 10763 NUERNBERG               | 4930N    | 01103E    | 319       |           | 982.7        | 1020.0         | 15.1        | 1.1    | 13.3           | 1.1    | 5             | 22    | -29    | 1        | 181      | 106      |
| 10776 REGENSBURG              | 4903N    | 01206E    | 371       |           | 976.9        | 1019.9         | 15.6        |        | 13.5           |        | 5             | 35    |        |          | 194      | 115      |
| 10788 STRAUBING               | 4850N    | 01234E    | 360       |           | 978.3        | 1020.0         | 15.3        |        | 14.0           |        | 7             | 38    |        |          | 197      | 125      |
| 10791 GROSSER ARBER           | 4907N    | 01308E    | 1446      |           | 859.0        | 1533 Y         | 9.7         |        | 11.0           |        | 8             | 49    |        |          | 151      | 90       |
| 10803 FREIBURG                | 4800N    | 00751E    | 300       |           | 991.9        | 1020.0         | 15.6        |        | 13.9           |        | 4             | 25    |        |          | 186      | 110      |
| 10805 LAHR                    | 4822N    | 00750E    | 157       |           | 1001.5       | 1020.2         | 15.6        |        | 14.2           |        | 2             | 18    |        |          | 199      | 115      |
| 10815 FREUDENSTADT            | 4827N    | 00825E    | 801       |           | 928.5        | 1535 Y         | 13.0        |        | 12.0           |        | 6             | 38    |        |          | 169      | 95       |
| 10836 STOETTEN                | 4840N    | 00952E    | 737       |           | 935.0        | 1019.7         | 14.1        |        | 12.7           |        | 5             | 27    |        |          | 170      | 95       |
| 10838 ULM                     | 4823N    | 00957E    | 571       |           | 953.7        | 1019.7         | 15.1        |        | 12.8           |        | 7             | 34    |        |          | 184      | 105      |
| 10852 AUGSBURG                | 4826N    | 01056E    | 477       |           | 964.7        | 1019.9         | 14.5        |        | 12.9           |        | 7             | 33    |        |          | 177      | 100      |

# SURFACE

# SEPTEMBER 2009

| STATION                        | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|--------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 10870 MUENCHEN, FLUGHAFEN      | 4822N    | 01149E    | 453       |           | 967.9        | 1019.7         | 15.3        | 1.9    | 13.5           | 1.6    | 6             | 30    | -38    | 1        | 191      | 115      |
| 10875 MUEHL DORF               | 4817N    | 01230E    | 410       |           | 971.9        | 1019.9         | 14.6        |        | 14.1           |        | 8             | 41    |        |          | 181      | 115      |
| 10895 FUERSTENZELL             | 4833N    | 01321E    | 480       |           | 964.1        | 1019.5         | 15.2        |        | 14.1           |        | 5             | 37    |        |          | 203      | 110      |
| 10908 FELDBERG/SCHWARZWALD     | 4753N    | 00800E    | 1493      |           | 854.5        | 1533 Y         | 9.8         |        | 10.2           |        | 5             | 70    |        |          | 159      | 95       |
| 10929 KONSTANZ                 | 4741N    | 00911E    | 447       |           | 967.8        | 1019.3         | 16.5        | 1.8    | 13.7           | .4     | 6             | 41    | -30    | 2        | 196      | 115      |
| 10946 KEMPTEN                  | 4743N    | 01020E    | 705       |           | 938.6        | 1019.6         | 13.9        |        | 13.1           |        | 7             | 61    |        |          | 178      | 100      |
| 10948 OBERSTDORF               | 4724N    | 01017E    | 812       |           | 927.6        | 1537 Y         | 13.2        |        | 12.9           |        | 9             | 93    |        |          | 175      | 110      |
| 10961 ZUGSPITZE                | 4725N    | 01059E    | 2962      |           | 714.3        | 3123 Z         | 1.8         | 1.3    | 5.5            | .3     | 10            | 82    | -33    | 2        | 196      | 108      |
| <b>10962 HOHENPEISSENBERG</b>  | 4748N    | 01101E    | 986       |           | 907.9        | 1538 Y         | 13.3        | 1.3    | 12.8           | 1.7    | 10            | 79    | -28    | 2        | 169      | 95       |
| 10980 WENDELSTEIN              | 4742N    | 01201E    | 1835      |           | 820.2        | 1538 Y         | 8.8         |        | 9.4            |        | 9             | 84    |        |          | 155      | 95       |
| <b>AUSTRIA</b>                 |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 11035 WIEN/HOHE WARTE          | 4815N    | 01622E    | 200       |           | 994.9        | 1019.3         | 17.2        |        | 15.0           | 2.1    | 4             | 20    | -25    | 1        | 229      | 134      |
| 11120 INNSBRUCK-FLUGHAFEN      | 4716N    | 01121E    | 584       |           | 950.8        | 1019.2         | 15.5        |        | 13.5           |        | 11            | 86    |        | 3        | 218      | 110      |
| <b>11146 SONNBLICK</b>         | 4703N    | 01257E    | 3111      |           | 704.3        | 3124 Z         | .8          |        | 5.9            | .7     | 12            | 139   | -40    | 4        | 158      | 95       |
| 11150 SALZBURG-FLUGHAFEN       | 4748N    | 01300E    | 450       |           | 967.2        | 1019.6         | 15.5        |        | 13.7           | .9     | 8             | 101   | 11     | 4        | 191      | 113      |
| 11155 FEUERKOGEL               | 4749N    | 01343E    | 1621      |           | 841.8        | 1540 Y         | 9.8         |        | 10.3           |        | 8             | 139   |        | 3        | 159      | 100      |
| 11212 VILLACHERALPE            | 4636N    | 01340E    | 2160      |           | 789.9        | 1550 Y         | 7.1         |        | 9.3            |        | 8             | 187   |        | 5        | 177      | 95       |
| 11231 KLAGENFURT-FLUGHAFEN     | 4639N    | 01420E    | 476       |           | 964.4        | 1019.8         | 15.6        |        | 14.3           | 1.4    | 6             | 170   | 80     | 5        | 224      | 123      |
| 11240 GRAZ-THALERHOF-FLUGHAFEN | 4700N    | 01526E    | 347       |           | 977.3        | 1019.7         | 16.7        |        | 14.9           | 1.3    | 8             | 135   | 59     | 5        | 203      | 121      |
| <b>CZECH REPUBLIC</b>          |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 11423 PRIMDA                   | 4940N    | 01240E    | 748       |           | 934.2        |                | 13.3        |        | 12.4           |        | 4             | 29    |        | 1        | 183      | 115      |
| <b>11464 MILESOVKA</b>         | 5033N    | 01356E    | 836       |           | 923.5        |                | 12.9        |        | 12.1           |        | 5             | 21    |        | 1        | 195      | 120      |
| 11487 KOCELOVICE               | 4928N    | 01350E    | 522       |           | 959.3        | 1020.0         | 14.6        |        | 12.8           |        | 5             | 22    |        | 1        | 182      | 115      |
| 11518 PRAHA/RUZYNE             | 5006N    | 01415E    | 380       |           | 977.3        | 1020.1         | 15.8        | 2.6    | 12.5           | .7     | 4             | 16    | -24    | 1        | 189      | 117      |
| 11520 PRAHA-LIBUS              | 5001N    | 01427E    | 303       |           | 982.9        | 1018.5         | 16.4        |        | 12.5           |        | 5             | 18    |        | 1        | 174      | 115      |
| 11603 LIBEREC                  | 5046N    | 01501E    | 405       |           | 972.4        | 1019.6         | 14.0        |        | 11.7           |        | 5             | 31    |        | 1        | 166      | 120      |
| 11659 PRIBYSLAV                | 4935N    | 01546E    | 536       |           | 957.6        | 1020.0         | 14.3        |        | 12.7           |        | 5             | 19    |        | 1        | 189      | 125      |
| 11723 BRNO/TURANY              | 4909N    | 01642E    | 246       |           | 990.9        | 1019.7         | 17.1        | 2.8    | 13.1           | 1.1    | 5             | 15    | -22    | 1        | 189      | 117      |
| 11782 OSTRAVA/MOSNOV           | 4941N    | 01807E    | 260       |           | 989.6        | 1020.2         | 15.7        | 2.1    | 13.5           | 1.4    | 4             | 13    | -45    | 1        | 183      | 122      |
| <b>SLOVAKIA</b>                |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 11858 HURBANOV                 | 4752N    | 01812E    | 124       |           | 1004.6       | 1019.3         | 18.0        | 2.5    | 13.4           | .5     | 2             | 34    | -4     | 3        | 237      | 129      |
| 11903 SLIAC                    | 4839N    | 01909E    | 315       |           | 982.7        | 1019.6         | 16.3        | 2.8    | 12.5           | .7     | 4             | 33    | -23    | 2        | 218      | 139      |
| <b>11934 POPRAD/TATRY</b>      | 4904N    | 02015E    | 696       |           | 940.0        |                | 13.3        | 1.8    | 11.7           | 1.5    | 6             | 33    | -15    | 2        | 228      | 130      |
| <b>POLAND</b>                  |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>12120 LEBA</b>              | 5445N    | 01732E    | 6         |           | 1017.7       | 1018.4         | 14.7        |        | 13.2           |        | 10            | 60    |        | 3        | 192      |          |
| 12160 ELBLAG                   | 5410N    | 01926E    | 43        |           | 1013.8       | 1019.0         | 14.7        |        | 12.5           |        | 4             | 26    |        | 1        | 200      | 145      |
| 12205 SZCZECIN                 | 5324N    | 01437E    | 7         |           | 1018.5       | 1019.3         | 14.9        | 1.4    | 13.1           | .4     | 6             | 21    | -23    | 1        | 175      | 125      |
| 12295 BIALYSTOK                | 5306N    | 02310E    | 151       |           | 1001.5       | 1019.6         | 13.5        | 1.5    | 12.7           | .9     | 7             | 25    | -27    | 1        | 199      | 135      |
| 12330 POZNAN                   | 5225N    | 01651E    | 84        |           | 1009.2       | 1019.8         | 15.6        | 2.2    | 12.4           | .3     | 5             | 32    | -11    | 2        | 211      | 153      |

# SURFACE

# SEPTEMBER 2009

| STATION                        | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|--------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 12375 WARSZAWA-OKECIE          | 5210N    | 02058E    | 106       |           | 1007.0       | 1019.8         | 15.5        | 2.4    | 12.5           | .3     | 3             | 13    | -30    | 1        | 280      | 225      |
| 12424 WROCLAW II               | 5106N    | 01653E    | 124       |           | 1005.2       | 1020.2         | 15.6        | 2.2    | 13.2           | .6     | 4             | 9     | -39    | 1        | 171      | 123      |
| 12497 WLODAWA                  | 5133N    | 02332E    | 179       |           | 998.7        | 1020.2         | 14.6        |        | 12.4           |        | 4             | 31    |        | 2        | 213      | 140      |
| 12566 KRAKOW                   | 5005N    | 01948E    | 237       |           | 992.1        | 1020.5         | 15.1        | 2.0    | 13.6           | 1.2    | 6             | 35    | -19    | 2        |          |          |
| <b>HUNGARY</b>                 |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 12843 BUDAPEST/PESTSZENTLORINC | 4726N    | 01911E    | 139       |           | 1003.0       | 1019.5         | 19.2        | 2.8    | 11.9           | -1.0   | 4             | 20    | -20    | 2        | 234      | 119      |
| 12882 DEBRECEN                 | 4729N    | 02136E    | 109       |           | 1006.4       | 1019.2         | 18.7        | 2.9    | 12.2           | -1.1   | 2             | 13    | -25    | 1        | 267      | 134      |
| 12942 PECS/POGANY              | 4600N    | 01814E    | 203       |           | 995.5        | 1019.5         | 19.4        | 2.8    | 12.7           | -4     | 3             | 15    | -32    | 1        | 230      | 112      |
| 12982 SZEGED                   | 4615N    | 02006E    | 83        |           | 1009.2       | 1018.9         | 19.3        | 2.8    | 12.8           | -4     | 4             | 11    | -23    | 2        | 240      | 115      |
| <b>SERBIA AND MONTENEGRO</b>   |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 13274 BEOGRAD                  | 4448N    | 02028E    | 132       |           | 1002.6       | 1018.0         | 20.6        | 2.9    | 14.3           | .6     | 2             | 4     | -47    | 1        | 227      | 112      |
| 13388 NIS                      | 4320N    | 02154E    | 202       |           | 994.2        | 1018.1         | 18.7        |        | 14.4           |        | 6             | 36    |        | 3        | 208      | 100      |
| <b>MACEDONIA</b>               |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 13577 LAZAROPOLE               | 4132N    | 02042E    | 1332      |           | 871.3        |                | 12.7        | .5     | 10.8           |        | 4             | 27    | -41    | 1        | 192      | 85       |
| 13588 SKOPJE-ZAJCEV RID        | 4201N    | 02124E    | 302       |           | 974.7        |                | 19.3        |        | 14.0           |        | 3             | 10    |        | 0        | 197      |          |
| <b>SLOVENIA</b>                |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 14008 KREDARICA                | 4623N    | 01351E    | 2515      |           | 755.1        | 3129 Z         | 4.3         |        | 7.2            |        | 11            | 336   |        | 5        | 112      | 70       |
| 14015 LJUBLJANA/BEZIGRAD       | 4604N    | 01431E    | 299       |           | 984.5        | 1019.2         | 17.4        |        | 15.0           |        | 6             | 64    |        | 1        | 190      | 115      |
| <b>CROATIA</b>                 |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 14236 ZAGREB/GRIC              | 4549N    | 01559E    | 162       |           | 999.3        | 1018.3         | 19.7        |        | 15.1           |        | 6             | 28    |        | 1        | 201      | 105      |
| 14445 SPLIT/MARJAN             | 4331N    | 01626E    | 128       |           | 1001.2       | 1016.0         | 23.2        |        | 15.9           |        | 3             | 26    |        | 2        | 254      | 100      |
| <b>BOSNIA AND HERZEGOVINA</b>  |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 14648 MOSTAR                   | 4321N    | 01748E    | 108       |           | 1004.2       | 1016.7         | 22.3        |        | 14.9           |        | 5             | 128   |        | 3        | 240      | 105      |
| 14652 BJELASNICA               | 4343N    | 01816E    | 2070      |           | 798.4        | 1542 Y         | 7.3         |        | 8.9            |        | 8             | 84    |        | 3        | 187      | 105      |
| 14654 SARAJEVO-BJELAVE         | 4352N    | 01826E    | 638       |           | 946.3        | 1019.2         | 16.6        | 1.5    | 13.4           | 1.4    | 7             | 20    | -50    | 1        | 198      | 106      |
| <b>ROMANIA</b>                 |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 15023 SUCEAVA                  | 4738N    | 02615E    | 352       |           | 977.4        | 1018.5         | 15.7        |        | 11.9           |        | 3             | 20    |        | 2        | 217      | 115      |
| 15085 BISTRITA                 | 4709N    | 02431E    | 367       |           | 976.0        | 1019.1         | 16.3        | 2.8    | 11.7           | -.7    | 2             | 7     | -36    | 1        | 226      | 115      |
| 15090 IASI                     | 4710N    | 02738E    | 104       |           | 1006.8       | 1019.1         | 17.5        | 1.6    | 12.4           | -.7    | 3             | 8     | -40    | 1        | 203      | 98       |
| 15120 CLUJ-NAPOCA              | 4647N    | 02334E    | 414       |           | 971.1        | 1019.4         | 16.5        | 2.4    | 11.6           | -1.0   | 1             | 5     | -31    | 1        | 237      | 116      |
| 15247 TIMISOARA                | 4546N    | 02115E    | 88        |           | 1007.7       | 1017.8         | 19.0        | 2.5    | 14.0           | .3     | 2             | 5     | -35    | 1        | 204      | 94       |
| 15260 SIBIU                    | 4548N    | 02409E    | 444       |           | 967.1        | 1019.2         | 16.1        | 1.7    | 12.7           | .0     | 3             | 7     | -44    | 1        | 180      | 99       |
| 15280 VARFU OMU                | 4527N    | 02527E    | 2509      |           | 755.5        |                | 3.4         | .6     | 6.9            | .6     | 5             | 32    | -32    | 2        | 145      | 91       |
| 15292 CARANSEBES               | 4525N    | 02215E    | 242       |           | 990.3        | 1018.2         | 17.6        |        | 14.3           |        | 3             | 18    |        | 0        | 214      | 105      |

# SURFACE

# SEPTEMBER 2009

| STATION                   | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|---------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                           |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 15310 GALATI              | 4529N    | 02802E    | 71        |           | 1009.8       | 1018.1         | 18.6        | 1.4    | 13.1           | -8     | 5             | 62    | 20     | 5        | 232      | 100      |
| 15350 BUZAU               | 4509N    | 02649E    | 97        |           | 1007.2       | 1018.7         | 19.2        |        | 11.6           |        | 4             | 33    |        | 3        | 230      | 105      |
| <b>15360 SULINA</b>       | 4510N    | 02944E    | 9         |           | 1016.1       | 1017.5         | 19.2        | .9     | 16.3           | -9     | 3             | 15    | -18    | 2        | 253      | 114      |
| 15420 BUCURESTI BANEASA   | 4430N    | 02608E    | 91        |           | 1008.7       | 1019.4         | 17.5        | .6     | 12.5           | -1.3   | 2             | 43    | 1      | 4        | 199      | 89       |
| 15450 CRAIOVA             | 4419N    | 02352E    | 195       |           | 995.5        | 1018.5         | 18.8        | 1.4    | 13.6           | -5     | 5             | 23    | -14    | 1        | 194      | 86       |
| 15480 CONSTANTA           | 4413N    | 02839E    | 14        |           | 1016.1       | 1017.7         | 19.5        | 1.2    | 15.0           | -1.5   | 3             | 45    | 16     | 4        | 241      | 100      |
| <b>BULGARIA</b>           |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 15502 VIDIN               | 4359N    | 02251E    | 595       |           |              | 1018.1         | 17.9        |        | 16.1           |        | 6             | 38    |        | 4        | 213      | 90       |
| 15552 VARNA               | 4312N    | 02757E    | 43        |           | 1012.4       | 1017.1         | 19.2        | .7     | 16.0           | .1     | 5             | 46    | 15     | 5        | 257      | 117      |
| 15614 SOFIA (OBSERV.)     | 4239N    | 02323E    | 595       |           | 949.7        | 1018.0         | 16.3        | .2     | 13.3           | 1.6    | 5             | 60    | 22     | 5        | 205      | 95       |
| 15730 KURDJALI            | 4139N    | 02523E    | 331       |           | 979.0        | 1016.9         | 18.2        |        | 14.0           |        | 7             | 36    |        | 4        | 192      | 75       |
| <b>ITALY</b>              |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 16022 PAGANELLA           | 4609N    | 01102E    | 2129      |           | 791.2        | 1535 Y         | 8.3         |        | 9.1            |        | 9             | 71    | -19    | 3        | 199      |          |
| 16033 DOBBIACO            | 4644N    | 01213E    | 1226      |           | 882.8        | 1543 Y         | 13.9        |        | 12.6           |        | 12            | 89    | 23     | 4        |          |          |
| 16052 PIAN ROSA           | 4554N    | 00742E    | 3488      |           | 669.8        |                | .8          |        | 4.5            |        |               |       |        |          | 175      | 90       |
| 16061 BRIC DELLA CROCE    | 4502N    | 00743E    | 710       |           | 936.4        |                | 17.5        |        | 14.1           |        | 5             | 87    | 24     | 4        | 179      | 127      |
| 16098 TREVISO/ISTRANA     | 4541N    | 01206E    | 42        |           | 1012.6       | 1018.0         | 22.0        |        | 17.0           |        | 4             | 179   | 106    | 5        |          |          |
| <b>16110 TRIESTE</b>      | 4539N    | 01345E    | 4         |           | 1016.8       | 1017.2         | 22.6        |        | 15.6           |        | 5             | 30    | -72    | 1        | 212      | 101      |
| <b>16134 MONTE CIMONE</b> | 4411N    | 01042E    | 2173      |           | 787.3        | 1539 Y         | 7.5         |        | 8.5            |        | 7             | 90    | 14     | 4        | 134      | 81       |
| 16148 CERVIA              | 4413N    | 01218E    | 10        |           | 1016.0       | 1017.0         | 20.8        |        | 19.4           |        | 4             | 15    | -57    | 1        | 239      |          |
| 16153 CAPO MELE           | 4357N    | 00811E    | 221       |           | 991.2        | 1016.7         | 22.8        |        | 16.8           |        | 3             | 43    | -14    | 3        | 249      | 120      |
| 16179 FRONTONE            | 4331N    | 01244E    | 574       |           | 951.0        |                | 19.1        |        | 15.4           |        | 6             | 50    | -50    | 2        |          |          |
| 16206 GROSSETO            | 4244N    | 01103E    | 7         |           | 1015.3       | 1016.0         | 22.2        |        | 18.3           |        | 4             | 18    | -46    | 1        |          |          |
| 16224 VIGNA DI VALLE      | 4205N    | 01213E    | 266       |           | 984.0        | 1015.0         | 20.5        |        | 18.6           |        | 7             | 68    | -16    | 3        | 220      | 92       |
| <b>16232 TERMOLI</b>      | 4200N    | 01500E    | 44        |           | 1010.9       | 1013.0         | 24.2        |        | 21.8           |        | 4             | 23    | -21    | 2        | 225      | 100      |
| 16245 PRATICA DI MARE     | 4139N    | 01227E    | 21        |           | 1012.9       | 1015.4         | 22.4        |        | 19.9           |        | 2             | 41    | -36    | 2        |          |          |
| 16252 CAMPOBASSO          | 4134N    | 01439E    | 807       |           | 925.7        |                | 17.6        |        | 16.6           |        |               |       |        |          | 190      | 89       |
| 16253 GRAZZANISE          | 4103N    | 01404E    | 10        |           | 1014.6       | 1016.0         | 22.4        |        | 20.1           |        | 7             | 100   | 23     | 4        | 227      | 95       |
| 16258 MONTE S. ANGELO     | 4142N    | 01557E    | 848       |           | 919.7        |                | 17.1        |        | 13.9           |        | 7             | 42    | -25    | 3        |          |          |
| 16280 PONZA               | 4055N    | 01257E    | 185       |           | 993.9        | 1015.3         | 23.3        |        | 22.9           |        | 6             | 40    | -13    | 2        | 252      |          |
| 16310 CAPO PALINURO       | 4001N    | 01516E    | 185       |           | 993.9        | 1015.0         | 22.5        |        | 15.7           |        | 6             | 128   | 68     | 5        | 224      | 88       |
| 16325 MARINA DI GINOSA    | 4026N    | 01653E    | 12        |           | 1013.6       | 1015.0         | 23.2        |        | 22.0           |        | 7             | 51    | 16     | 4        |          |          |
| 16344 MONTE SCURO         | 3920N    | 01624E    | 1677      |           | 834.3        | 1521 Y         | 12.7        |        | 11.3           |        | 11            | 137   | 87     | 6        | 170      |          |
| 16360 S. MARIA DI LEUCA   | 3949N    | 01821E    | 112       |           | 1002.1       | 1015.1         | 23.4        |        | 21.4           |        | 2             | 25    | -15    | 3        | 229      |          |
| 16420 MESSINA             | 3812N    | 01533E    | 54        |           | 1008.5       | 1014.8         | 24.4        |        | 24.7           |        | 11            | 116   | 62     | 5        | 198      | 83       |
| 16429 TRAPANI BIRGI       | 3755N    | 01230E    | 9         |           | 1014.1       | 1015.2         | 24.6        |        | 23.2           |        | 8             | 153   | 112    | 5        | 237      | 93       |
| 16459 CATANIA SIGONELLA   | 3724N    | 01455E    | 29        |           | 1011.5       | 1014.9         | 23.0        |        | 23.9           |        | 10            | 97    | 60     | 5        |          |          |
| 16480 COZZO SPADARO       | 3641N    | 01508E    | 51        |           | 1007.6       | 1013.5         | 25.0        |        | 24.4           |        | 6             | 70    | 45     | 5        | 234      |          |
| 16522 CAPO CACCIA         | 4034N    | 00810E    | 204       |           | 992.3        | 1015.9         | 22.2        |        | 21.3           |        | 8             | 95    |        | 5        | 256      | 100      |
| <b>MALTA</b>              |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>16597 LUQA</b>         | 3551N    | 01429E    | 91        |           | 1006.5       | 1014.9         | 24.6        | .5     | 21.6           | -3     | 4             | 77    | 37     | 5        | 236      | 90       |

# SURFACE

# SEPTEMBER 2009

| STATION                      | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                              |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>GREECE</b>                |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 16622 THESSALONIKI (AIRPORT) | 4031N    | 02258E    | 8         |           | 1016.8       | 1017.5         | 21.9        | .1     | 16.1           | .1     | 6             | 33    | 7      | 4        | 190      | 83       |
| 16641 KERKYRA (AIRPORT)      | 3937N    | 01955E    | 4         |           | 1014.2       | 1014.6         | 24.0        | 1.3    | 19.5           | .6     | 4             | 24    | -50    | 2        | 237      | 92       |
| 16648 LARISSA (AIRPORT)      | 3938N    | 02225E    | 74        |           | 1008.2       | 1016.8         | 21.9        | -1     | 15.9           | 1.0    | 4             | 31    | 2      | 4        | 174      | 70       |
| 16716 ATHINAI (AIRPORT)      | 3754N    | 02344E    | 28        |           | 1013.6       | 1015.3         | 23.3        | -1.0   | 17.1           | .7     | 5             | 48    | 39     | 5        | 224      | 81       |
| 16723 SAMOS (AIRPORT)        | 3742N    | 02655E    | 7         |           | 1011.8       | 1012.6         | 24.1        | -2     | 19.9           | 4.4    | 3             | 70    | 48     | 6        | 305      | 105      |
| 16726 KALAMATA (AIRPORT)     | 3704N    | 02201E    | 8         |           | 1013.0       | 1014.3         | 22.9        | -4     | 21.0           | 2.6    | 7             | 174   | 146    | 6        | 237      | 88       |
| 16734 METHONI                | 3650N    | 02142E    | 34        |           | 1006.9       | 1013.0         | 24.1        | .5     | 21.1           | .6     | 7             | 62    | 32     | 5        | 244      | 85       |
| 16746 SOUDA (AIRPORT)        | 3529N    | 02407E    | 151       |           | 996.7        | 1014.2         | 22.9        | -1     | 20.2           | 2.9    | 5             | 42    | 24     | 5        | 243      | 85       |
| 16754 HERAKLION (AIRPORT)    | 3520N    | 02511E    | 39        |           | 1009.5       | 1014.0         | 23.5        | .0     | 21.0           | 3.0    | 3             | 53    | 34     | 5        | 257      | 92       |
| <b>TURKEY</b>                |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 17022 ZONGULDAK              | 4127N    | 03148E    | 137       |           | 999.9        | 1015.7         | 19.2        | .8     | 16.3           | 1.2    | 8             | 167   | 74     | 5        | 205      | 85       |
| 17030 SAMSUN                 | 4117N    | 03618E    | 4         |           | 1014.4       | 1014.9         | 20.2        | .6     | 18.3           | 1.0    | 10            | 63    | 14     | 4        | 182      | 105      |
| 17034 GIRE SUN               | 4055N    | 03823E    | 37        |           | 1013.7       | 1018.2         | 20.2        | .5     | 17.7           | -2     | 13            | 251   | 139    | 6        |          |          |
| 17040 RIZE                   | 4102N    | 04031E    | 9         |           | 1013.2       | 1014.2         | 20.4        | 1.0    | 19.2           | 1.0    | 18            | 396   | 176    | 5        | 136      | 90       |
| 17050 EDIRNE                 | 4140N    | 02634E    | 51        |           | 1011.4       | 1017.5         | 19.8        | .2     | 14.2           | .6     | 5             | 74    | 38     | 5        | 212      | 85       |
| 17062 ISTANBUL/GOZTEPE       | 4058N    | 02905E    | 33        |           | 1014.1       | 1016.1         | 21.0        | 1.3    | 16.9           | .2     | 6             | 90    | 50     | 5        |          |          |
| 17074 KASTAMONU              | 4122N    | 03347E    | 800       |           | 924.7        | 1015.5         | 14.8        | -5     | 11.7           | .7     | 5             | 31    | 4      | 4        | 177      | 70       |
| 17084 CORUM                  | 4033N    | 03457E    | 776       |           | 926.6        | 1014.2         | 16.5        | -2     | 12.2           | 1.5    | 4             | 13    | -8     | 2        | 204      | 75       |
| 17090 SIVAS                  | 3945N    | 03701E    | 1285      |           | 872.0        | 1012.7         | 14.9        | -8     | 10.1           | .8     | 4             | 25    | 8      | 4        | 248      | 85       |
| 17092 ERZINCAN               | 3942N    | 03931E    | 1154      |           | 877.9        | 1010.5         | 17.5        | -9     | 10.8           | 1.0    | 8             | 33    | 21     | 5        | 213      | 70       |
| 17096 ERZURUM                | 3957N    | 04110E    | 1758      |           | 823.8        | 1011.1         | 12.4        | -2.4   | 8.3            | .0     | 8             | 44    | 23     | 5        | 226      | 75       |
| 17098 KARS                   | 4033N    | 04305E    | 1795      |           | 822.7        | 1013.2         | 11.1        | -2.1   | 10.0           | 1.0    | 12            | 56    | 30     | 5        | 197      | 75       |
| 17112 CANAKKALE              | 4008N    | 02624E    | 6         |           | 1016.3       | 1016.6         | 20.6        | .0     | 16.1           | -7     | 3             | 40    | 12     | 5        | 211      | 75       |
| 17116 BURSA                  | 4011N    | 02904E    | 100       |           | 1003.7       | 1015.4         | 19.8        | -1     | 15.5           | .7     | 6             | 67    | 32     | 5        | 193      | 75       |
| 17130 ANKARA/CENTRAL         | 3957N    | 03253E    | 891       |           | 914.4        | 1013.5         | 18.3        | .0     | 9.8            | .2     | 3             | 10    | -9     | 3        | 203      | 70       |
| 17155 KUTAHYA                | 3925N    | 02958E    | 969       |           | 906.5        | 1014.5         | 16.4        |        | 11.6           |        | 6             | 43    |        | 5        | 199      | 90       |
| 17170 VAN                    | 3827N    | 04319E    | 1669      |           | 835.7        | 1012.5         | 15.5        | -1.3   | 8.5            | .2     | 7             | 46    | 33     | 5        | 235      | 75       |
| 17188 USAK                   | 3841N    | 02924E    | 919       |           | 910.8        | 1012.8         | 17.9        | -9     | 10.7           | -9     | 4             | 34    | 16     | 5        |          |          |
| 17190 AFYON                  | 3845N    | 03032E    | 1034      |           | 899.0        | 1013.4         | 17.0        | -4     | 10.2           | .5     | 6             | 36    | 19     | 5        | 225      | 80       |
| 17199 MALATYA/BOLGE          | 3821N    | 03819E    | 948       |           | 905.4        | 1009.2         | 20.7        |        | 10.1           |        | 4             | 39    |        | 6        | 300      | 100      |
| 17210 SIIRT                  | 3755N    | 04157E    | 896       |           | 910.6        | 1007.9         | 23.5        | -1.5   | 12.7           | 3.9    | 3             | 6     |        | 4        | 275      | 85       |
| 17220 IZMIR/GUZELYALI        | 3826N    | 02710E    | 29        |           | 1010.4       | 1013.2         | 23.2        | -2     | 15.8           | -4     | 5             | 51    | 37     | 5        | 279      | 90       |
| 17240 ISPARTA                | 3745N    | 03033E    | 997       |           | 902.4        | 1012.4         | 18.0        | -3     | 11.2           | 1.1    | 4             | 26    | 14     | 5        | 244      | 80       |
| 17244 KONYA                  | 3758N    | 03233E    | 1032      |           | 898.8        | 1012.2         | 18.1        | -2     | 9.6            | -5     | 4             | 21    | 10     | 4        | 219      | 75       |
| 17250 NIGDE                  | 3758N    | 03441E    | 1210      |           | 880.0        | 1012.5         | 16.5        | -8     | 8.4            | -6     | 3             | 20    | 13     | 5        | 251      | 80       |
| 17255 KAHRAMANMARAS          | 3736N    | 03656E    | 572       |           | 945.0        | 1008.5         | 23.6        | -1.4   | 14.8           | .6     | 4             | 20    | 15     | 5        | 246      | 85       |
| 17270 SANLIURFA              | 3708N    | 03846E    | 549       |           | 946.1        | 1006.9         | 25.1        | -1.6   | 12.2           | 1.4    | 2             | 7     | 6      | 5        | 287      | 90       |
| 17285 HAKKARI                | 3734N    | 04346E    | 1728      |           | 826.0        | 1007.1         | 17.6        | -2.3   | 9.9            | 1.5    | 4             | 31    | 22     | 6        | 256      | 85       |
| 17292 MUGLA                  | 3713N    | 02822E    | 646       |           | 939.3        | 1011.5         | 21.2        | -4     | 13.0           | .9     | 3             | 43    | 20     | 5        | 232      | 80       |
| 17300 ANTALYA                | 3652N    | 03044E    | 64        |           | 1003.7       | 1011.0         | 25.0        | .5     | 17.3           | -8     | 3             | 79    | 67     | 6        | 256      | 85       |
| 17340 MERSIN                 | 3648N    | 03438E    | 3         |           | 1010.2       | 1010.6         | 26.1        | 1.3    | 22.1           | .1     | 2             | 12    | 3      | 5        | 266      | 95       |
| 17351 ADANA/BOLGE            | 3659N    | 03521E    | 27        |           | 1007.0       | 1010.1         | 25.0        |        | 23.6           |        | 6             | 34    |        | 6        | 253      | 90       |

# SURFACE

# SEPTEMBER 2009

| STATION                                | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|--|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|  |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>CYPRUS</b><br>17609 LARNACA AIRPORT | 3453N    | 03338E    | 2         |           | 1010.5       | 1010.8         | 25.6        | 1.0    | 22.2           |        | 2             | 13    | 13     |          | 305      | 97       |
| <b>RUSSIAN FEDERATION (EUROPE)</b>     |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>22165 KANIN NOS</b>                 | 6839N    | 04318E    | 49        |           | 995.9        | 1001.8         | 7.8         | 2.0    | 9.9            | 1.6    | 16            | 41    | -4     | 2        | 55       | 65       |
| 22471 MEZEN'                           | 6552N    | 04413E    | 19        |           | 1003.6       | 1005.9         | 10.0        |        | 10.8           |        | 12            | 47    |        | 2        | 122      | 110      |
| 22520 KEM'-PORT                        | 6459N    | 03448E    | 8         |           | 1005.0       | 1005.9         | 11.3        |        | 10.4           |        | 8             | 21    |        | 1        | 175      | 130      |
| <b>22550 ARHANGEL'SK</b>               | 6433N    | 04035E    | 4         |           | 1006.6       | 1007.6         | 11.3        | 3.5    | 11.4           | 2.3    | 12            | 44    | -17    | 2        | 133      | 115      |
| 22619 PADANY                           | 6316N    | 03325E    | 128       |           | 993.4        | 1008.9         | 11.5        |        | 10.8           |        | 13            | 41    |        | 2        | 153      |          |
| 22641 ONEGA                            | 6354N    | 03807E    | 13        |           | 1006.7       | 1008.2         | 11.9        | 3.5    | 11.2           | 1.8    | 11            | 88    | 17     | 4        | 165      | 133      |
| 22676 SURA                             | 6335N    | 04538E    | 62        |           | 1001.4       | 1009.0         | 11.1        |        | 10.6           |        | 10            | 49    |        | 2        |          |          |
| 22768 SHENKURSK                        | 6206N    | 04254E    | 45        |           | 1005.6       | 1011.1         | 12.2        |        | 10.8           |        | 6             | 34    |        | 1        | 156      | 140      |
| <b>22802 SORTAVALA</b>                 | 6143N    | 03043E    | 19        |           | 1009.5       | 1011.8         | 11.7        | 2.4    | 11.9           | 1.8    | 6             | 70    | -3     | 3        | 161      | 128      |
| 22820 PETROZAVODSK                     | 6149N    | 03416E    | 110       |           | 997.8        | 1011.1         | 11.9        | 3.1    | 11.3           | 1.6    | 9             | 60    | -10    | 3        | 164      | 130      |
| <b>22837 VYTEGRA</b>                   | 6101N    | 03627E    | 56        |           | 1005.8       | 1012.5         | 12.3        | 3.0    | 11.6           | 1.6    | 9             | 43    | -34    | 1        | 166      | 137      |
| <b>26063 ST.PETERSBURG (VOEJKOVO)</b>  | 5958N    | 03018E    | 6         |           | 1012.8       | 1013.5         | 13.9        | 2.9    | 12.8           | 2.0    | 11            | 81    | 12     | 5        | 139      | 108      |
| 26157 GDOV                             | 5844N    | 02750E    | 40        |           | 1010.3       | 1015.1         | 13.6        |        | 13.1           |        | 9             | 57    |        |          | 145      |          |
| 26275 STARAYA RUSSA                    | 5801N    | 03119E    | 25        |           | 1012.7       | 1015.6         | 13.1        |        | 12.8           |        | 10            | 61    |        |          | 153      | 100      |
| 26359 PUSKINSKIE GORY                  | 5701N    | 02854E    | 108       |           | 1003.9       | 1017.0         | 12.9        |        | 12.7           |        | 8             | 98    |        |          |          |          |
| <b>26781 SMOLENSK</b>                  | 5445N    | 03204E    | 239       |           | 990.0        | 1018.3         | 12.9        | 2.4    | 12.7           | 2.1    | 9             | 37    | -30    |          | 190      | 122      |
| 26997 TRUBCHEVSK                       | 5235N    | 03346E    | 178       |           | 998.1        | 1019.4         | 14.5        |        | 13.0           |        | 3             | 39    |        | 2        |          |          |
| 27037 VOLOGDA                          | 5919N    | 03955E    | 130       |           | 999.5        | 1015.1         | 11.7        | 2.7    | 11.3           | 1.5    | 8             | 44    | -11    | 2        | 184      | 150      |
| <b>27051 TOT'MA</b>                    | 5953N    | 04245E    | 134       |           | 997.4        | 1014.1         | 11.5        | 3.1    | 11.3           | 1.9    | 7             | 42    | -18    | 1        | 142      | 123      |
| 27333 KOSTROMA                         | 5744N    | 04047E    | 126       |           | 1001.3       | 1016.4         | 12.8        | 2.9    | 11.7           | 1.5    | 9             | 76    | 14     | 4        | 191      | 140      |
| 27459 NIZHNIJ NOVGOROD                 | 5616N    | 04400E    | 157       |           | 998.4        | 1017.1         | 14.4        |        | 11.5           |        | 4             | 9     |        | 1        | 245      | 60       |
| <b>27595 KAZAN'</b>                    | 5536N    | 04917E    | 116       |           | 1003.6       | 1017.8         | 14.9        | 3.6    | 11.8           | 1.8    | 4             | 17    | -34    | 1        | 227      | 142      |
| <b>27612 MOSKVA</b>                    | 5550N    | 03737E    | 156       |           | 999.2        | 1017.8         | 13.8        | 2.8    | 13.0           | 2.6    | 8             | 43    | -21    |          |          |          |
| <b>27648 ELAT'MA</b>                   | 5457N    | 04146E    | 136       |           | 1001.8       | 1017.9         | 14.2        | 3.1    | 12.1           | 1.6    | 3             | 13    | -44    | 1        | 219      | 142      |
| 27675 PORETSKOE                        | 5511N    | 04620E    | 136       |           | 1001.5       | 1017.7         | 14.7        |        | 11.6           |        | 4             | 10    |        | 1        | 223      | 145      |
| 27707 SUHINICHI                        | 5406N    | 03521E    | 238       |           | 990.3        | 1018.6         | 13.8        |        | 12.6           |        | 7             | 45    |        |          |          |          |
| 27823 PAVELETS                         | 5347N    | 03915E    | 209       |           | 993.6        | 1018.4         | 15.0        | 3.6    | 11.3           | 1.2    | 5             | 17    | -35    | 1        | 213      | 125      |
| 27857 ZAMETCHINO                       | 5329N    | 04238E    | 131       |           | 1002.7       | 1018.4         | 15.1        |        | 10.9           |        | 3             | 18    |        | 1        | 207      | 120      |
| 27995 SAMARA (BEZENCHUK)               | 5259N    | 04926E    | 46        |           | 1013.4       | 1018.9         | 15.4        |        | 11.1           |        | 5             | 13    |        | 1        | 243      | 130      |
| 34110 BOGORODITSKOE-FENINO             | 5110N    | 03721E    | 226       |           | 992.0        | 1018.7         | 15.7        |        | 11.1           |        | 6             | 18    |        | 1        | 211      |          |
| 34123 VORONEZ                          | 5142N    | 03913E    | 149       |           | 1001.0       | 1018.7         | 16.6        |        | 13.8           |        | 2             | 7     |        | 1        |          |          |
| 34152 BALASHOV                         | 5133N    | 04309E    | 159       |           | 999.8        | 1018.6         | 16.3        |        | 9.9            |        | 3             | 5     |        | 1        |          |          |
| <b>34163 OKTJABR'SKIJ GORODOK</b>      | 5138N    | 04527E    | 201       |           | 994.9        | 1018.9         | 15.2        |        | 9.6            |        | 01            | 1     |        | 0        | 257      | 132      |
| 34186 ERSHOV                           | 5122N    | 04818E    | 111       |           | 1005.6       | 1018.9         | 16.1        |        | 9.7            |        | 3             | 14    |        | 2        | 249      | 115      |
| 34579 VERHNIJ BASKUNCHAK               | 4813N    | 04644E    | 34        |           | 1013.5       | 1017.5         | 18.2        |        | 10.9           |        | 4             | 15    |        | 3        |          |          |
| 34720 TAGANROG                         | 4712N    | 03854E    | 32        |           | 1013.4       | 1017.2         | 18.3        |        | 14.1           |        | 8             | 78    |        |          | 208      |          |
| 34740 GIGANT                           | 4631N    | 04121E    | 79        |           | 1007.3       | 1016.6         | 18.0        |        | 12.6           |        | 4             | 80    |        |          | 209      |          |
| <b>34866 YASHKUL'</b>                  | 4611N    | 04521E    | -7        |           | 1017.7       | 1016.9         | 18.6        | .7     | 12.3           | .0     | 4             | 14    | -10    |          |          |          |
| 34927 KRASNODAR-KRUGLIK                | 4593N    | 03902E    | 29        |           | 1012.2       | 1015.6         | 18.8        |        | 14.4           |        | 6             | 42    |        |          | 204      | 85       |
| 34949 STAVROPOL'                       | 4507N    | 04205E    | 452       |           | 963.6        | 1015.9         | 16.0        |        | 13.0           |        | 11            | 69    |        |          | 164      |          |

# SURFACE

# SEPTEMBER 2009

| STATION                       | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|-------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                               |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 37001 ANAPA                   | 4453N    | 03717E    | 32        |           | 1011.2       | 1015.0         | 19.8        |        | 14.9           |        | 3             | 10    |        | 1        | 256      | 100      |
| 37061 BUDENNOVSK              | 4447N    | 04408E    | 136       |           | 999.8        | 1015.7         | 17.7        |        | 14.3           |        | 9             | 94    |        |          | 186      |          |
| 37107 KRASNAYA POLYANA        | 4341N    | 04012E    | 569       |           | 949.3        | 1014.5         | 16.3        |        | 15.2           |        | 12            | 97    |        |          | 183      |          |
| 37126 SHADZHATMAZ             | 4344N    | 04240E    | 2056      |           | 795.7        | 1510 Y         | 6.9         |        | 8.7            |        | 14            | 147   |        |          | 139      |          |
| 37228 VLADIKAVKAZ             | 4303N    | 04439E    | 703       |           | 934.7        | 1014.8         | 14.8        |        | 13.9           |        | 10            | 189   |        |          | 102      |          |
| 37470 DERBENT                 | 4204N    | 04818E    | -18       |           | 1017.5       | 1015.2         | 20.0        |        |                |        | 13            | 292   |        |          |          |          |
| 37472 MAHACHKALA              | 4250N    | 04733E    | 32        |           |              | 1014.9         | 19.0        | -7     |                |        | 11            | 179   | 141    | 6        | 181      | 93       |
| 37663 AH TY                   | 4128N    | 04745E    | 1015      |           | 901.0        | 1490 Y         | 14.7        |        | 12.6           |        | 9             | 78    |        | 5        | 194      | 85       |
| <b>ARMENIA</b>                |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 37789 YEREVAN/YEREVAN-ARABKIR | 4008N    | 04428E    | 1140      |           | 889.3        | 1498 Y         | 18.5        | -2.2   | 16.0           | 4.5    | 5             | 72    | 62     | 6        | 251      | 90       |
| <b>AZERBAIJAN</b>             |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 37661 SHAKI                   | 4113N    | 04710E    | 641       |           | 942.3        | 1014.8         | 18.1        | -8     | 15.7           | 1.2    | 10            | 159   | 102    |          |          |          |
| 37735 GANDJA                  | 4043N    | 04625E    | 311       |           | 969.4        | 1004.9         | 19.7        | -9     | 16.1           | .9     | 7             | 51    | 35     |          | 193      |          |
| 37747 EVLAKH AIRPORT          | 4037N    | 04709E    | 15        |           | 1013.8       | 1015.6         | 21.9        | -4     | 16.4           | .8     | 7             | 115   | 98     |          | 95       | 44       |
| 37860 MASHTAGA                | 4032N    | 05000E    | 28        |           | 1010.8       | 1014.1         | 18.8        | -1.3   |                |        | 4             | 11    | -6     |          |          |          |
| <b>37989 ASTARA</b>           | 3827N    | 04853E    | -22       |           | 1018.1       | 1015.5         | 21.0        | .7     | 20.7           | 1.1    | 9             | 174   | -16    |          | 178      | 96       |
| <b>BELARUS</b>                |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 26554 VERHNEDVINSK            | 5549N    | 02757E    | 132       |           | 1002.0       | 1017.9         | 13.1        |        | 12.7           |        | 10            | 156   |        | 6        | 164      |          |
| 26666 VITEBSK                 | 5510N    | 03013E    | 176       |           | 997.3        | 1018.2         | 13.9        | 2.9    | 12.6           | 1.9    | 9             | 47    | -18    | 2        |          |          |
| 26825 GRODNO                  | 5336N    | 02403E    | 134       |           | 1001.7       | 1019.3         | 14.4        |        | 12.3           |        | 4             | 19    |        | 1        |          |          |
| 26850 MINSK                   | 5356N    | 02738E    | 231       |           | 992.7        | 1019.1         | 14.1        | 2.4    | 12.6           | 1.8    | 7             | 56    | -4     | 3        | 202      | 122      |
| 26863 MOGILEV                 | 5357N    | 03004E    | 192       |           | 995.9        | 1018.8         | 13.4        | 1.9    | 12.4           | 1.7    | 4             | 14    | -40    | 0        |          |          |
| 26941 BARANOVICHI             | 5307N    | 02600E    | 193       |           | 996.7        | 1019.7         | 14.1        |        | 12.4           |        | 5             | 48    |        | 3        |          |          |
| 26951 SLUTSK                  | 5302N    | 02733E    | 162       |           | 1000.1       | 1019.5         | 13.9        |        | 12.6           |        | 5             | 33    |        | 2        |          |          |
| 33008 BREST                   | 5207N    | 02341E    | 146       |           | 1002.9       | 1020.3         | 15.0        | 1.9    | 12.6           | .9     | 6             | 45    | -6     | 3        | 251      | 148      |
| 33019 PINSK                   | 5207N    | 02607E    | 142       |           | 1003.1       | 1020.1         | 14.7        |        | 12.8           |        | 3             | 27    |        | 1        | 240      | 130      |
| 33036 MOZYR                   | 5157N    | 02910E    | 190       |           | 997.2        | 1019.5         | 15.1        |        | 12.8           |        | 4             | 25    |        | 2        |          |          |
| <b>33038 VASILEVICHI</b>      | 5215N    | 02950E    | 142       |           | 1002.6       | 1019.6         | 14.4        | 2.0    | 12.9           | 1.7    | 3             | 25    | -24    | 1        | 196      | 109      |
| 33041 GOMEL                   | 5224N    | 03057E    | 126       |           | 1004.2       | 1019.3         | 15.6        | 3.0    | 13.1           | 2.0    | 5             | 20    | -28    | 1        | 214      | 127      |
| <b>ESTONIA</b>                |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 26038 TALLINN                 | 5923N    | 02435E    | 34        |           | 1009.7       | 1013.7         | 13.8        | 3.0    | 12.9           | 1.9    | 11            | 52    | -30    | 2        | 148      | 106      |
| 26214 VILSANDI                | 5823N    | 02149E    | 6         |           | 1013.9       | 1014.6         | 15.4        | 2.8    | 13.9           | 2.1    | 8             | 58    | -15    | 2        | 174      | 101      |
| <b>26242 TARTU</b>            | 5818N    | 02644E    | 68        |           | 1006.6       | 1015.1         | 13.1        | 2.6    | 12.7           | 1.9    | 10            | 51    | -14    | 2        | 148      | 107      |
| <b>GEORGIA</b>                |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 37279 ZUGDIDI                 | 4231N    | 04153E    | 118       |           | 1003.6       | 1017.5         | 15.7        |        | 15.3           |        |               | 840   |        | 6        |          |          |
| 37395 KUTAISI                 | 4216N    | 04238E    | 114       |           | 1004.6       | 1018.2         | 15.4        |        |                |        |               | 61    |        |          |          |          |
| 37432 PASANAURI               | 4221N    | 04442E    | 1070      |           | 897.4        | 1522 Y         | 12.9        |        | 10.6           |        |               | 249   |        |          |          |          |
| 37484 BATUMI                  | 4139N    | 04138E    | 2         |           | 1013.1       | 1014.1         | 19.7        |        | 18.4           |        |               | 725   |        |          |          |          |



# SURFACE

# SEPTEMBER 2009

| STATION                    | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|----------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                            |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 37545 TBILISI              | 4145N    | 04446E    | 427       |           | 965.0        | 1013.7         | 19.1        |        | 16.3           |        |               |       |        |          |          |          |
| 37621 BOLNISI              | 4127N    | 04433E    | 534       |           | 953.1        | 1014.0         | 18.3        |        | 15.7           |        |               | 90    |        |          |          |          |
| <b>KAZAKHSTAN</b>          |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 34398 ZHALPAKTAL           | 4940N    | 04929E    | 10        |           | 1016.7       | 1017.9         | 17.6        | 2.2    | 10.3           | .9     | 4             | 14    | -7     |          | 258      | 118      |
| 34691 NOVYJ USHTOGAN       | 4754N    | 04848E    | -10       |           | 1018.9       | 1017.4         | 18.0        |        | 11.9           |        | 4             | 25    |        |          |          |          |
| <b>LATVIA</b>              |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 26346 ALUKSNE              | 5726N    | 02702E    | 193       |           | 992.3        | 1016.1         | 12.3        |        | 12.5           |        | 14            | 99    |        |          | 145      | 95       |
| 26406 LIEPAJA              | 5629N    | 02101E    | 7         |           | 1016.6       | 1017.2         | 15.2        | 2.3    | 13.4           | 1.4    | 11            | 45    | -33    |          | 221      | 128      |
| 26544 DAUGAVPILS           | 5552N    | 02637E    | 122       |           | 1002.7       | 1017.6         | 12.7        | 1.5    | 12.5           | 1.5    | 11            | 76    | 10     |          | 170      | 113      |
| <b>LITHUANIA</b>           |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 26509 KLAIPEDA             | 5544N    | 02104E    | 7         |           | 1016.5       | 1017.4         | 15.4        | 2.1    | 13.6           | 1.3    | 9             | 62    | -27    | 2        | 220      | 132      |
| 26524 SIAULIAI             | 5556N    | 02319E    | 107       |           | 1004.4       | 1017.2         | 14.0        | 2.3    | 12.4           | 1.1    | 9             | 50    | -10    | 2        |          |          |
| 26629 KAUNAS               | 5453N    | 02350E    | 77        |           | 1009.4       | 1018.7         | 13.8        | 1.9    | 12.7           | 1.2    | 6             | 28    | -28    | 2        | 230      | 144      |
| 26730 VILNIUS              | 5438N    | 02506E    | 162       |           | 1000.1       | 1018.8         | 13.6        | 2.0    | 12.2           | 1.2    | 9             | 59    | -6     | 3        | 213      | 152      |
| <b>REPUBLIC OF MOLDOVA</b> |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 33748 CORNESTI             | 4720N    | 02805E    | 232       |           | 991.2        | 1018.5         | 18.3        |        | 10.4           |        | 2             | 17    |        | 2        |          |          |
| 33815 CHISINAU             | 4701N    | 02859E    | 173       |           | 998.1        | 1018.0         | 18.7        | 2.5    | 11.2           | -6     | 3             | 22    | -24    | 2        | 247      | 109      |
| 33829 TIRASPOL             | 4654N    | 02936E    | 40        |           | 1013.5       | 1018.3         | 17.9        |        | 7.5            |        | 4             | 25    |        | 3        | 226      | 100      |
| 33883 KOMRAT               | 4618N    | 02838E    | 133       |           | 1002.2       | 1018.2         | 18.2        |        | 11.6           |        | 3             | 45    |        | 3        |          |          |
| <b>UKRAINE</b>             |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 33177 VOLODYMYR-VOLYNS'KYI | 5050N    | 02419E    | 194       |           | 997.4        | 1020.6         | 14.8        |        | 12.4           |        |               | 48    |        |          |          |          |
| 33275 SUMY                 | 5051N    | 03440E    | 181       |           | 997.2        | 1018.8         | 15.9        | 2.9    | 12.6           |        | 4             | 12    | -33    | 1        |          |          |
| 33301 RIVNE                | 5035N    | 02608E    | 231       |           | 993.0        | 1020.4         | 15.0        | 1.9    | 11.7           |        | 4             | 11    | -37    | 1        |          |          |
| 33345 KIEV                 | 5024N    | 03034E    | 167       |           | 999.7        | 1019.4         | 17.3        | 3.4    | 12.4           | .7     | 6             | 16    | -31    | 1        |          |          |
| 33377 LUBNY                | 5000N    | 03301E    | 158       |           | 1000.3       | 1019.0         | 16.1        | 2.2    | 12.5           |        | 7             | 56    | 12     | 4        |          |          |
| 33393 L'VIV                | 4949N    | 02357E    | 323       |           | 982.6        | 1020.7         | 14.9        | 1.8    | 12.3           | .4     | 6             | 28    | -30    | 1        | 230      | 128      |
| 33415 TERNOPIL'            | 4932N    | 02540E    | 329       |           | 981.8        | 1020.5         | 15.1        | 2.2    | 11.4           |        | 6             | 30    | -22    | 2        |          |          |
| 33429 KHMEL'NYTS'KYI       | 4926N    | 02659E    | 350       |           | 979.1        | 1020.1         | 15.7        | 2.5    | 11.8           |        | 4             | 24    | -27    | 2        |          |          |
| 33506 POLTAVA              | 4936N    | 03433E    | 160       |           | 999.7        | 1018.6         | 16.8        | 2.5    | 12.4           | 1.4    | 4             | 61    | 17     | 4        |          |          |
| 33526 IVANO-FRANKIVS'K     | 4858N    | 02424E    | 280       |           | 987.5        | 1020.6         | 15.0        | 1.5    | 12.0           |        | 4             | 24    | -28    | 2        |          |          |
| 33562 VINNYTSIA            | 4914N    | 02836E    | 298       |           | 984.8        | 1019.8         | 15.8        | 2.4    | 11.3           | -1     | 5             | 18    | -28    | 2        | 221      | 114      |
| 33587 UMAN'                | 4846N    | 03014E    | 216       |           | 994.1        | 1019.6         | 16.1        | 2.5    | 12.1           | .5     | 4             | 39    | -4     | 4        |          |          |
| 33631 UZHGOROD             | 4838N    | 02216E    | 124       |           | 1005.6       | 1019.5         | 17.3        | 1.7    | 13.1           | .5     | 6             | 50    | -3     | 4        | 278      | 145      |
| 33658 CHERNIVTSI           | 4822N    | 02554E    | 246       |           | 991.3        | 1020.2         | 16.6        | 2.3    | 11.2           | -9     | 1             | 5     | -46    | 1        | 230      | 122      |
| 33711 KIROVOHRAD           | 4831N    | 03212E    | 171       |           | 998.6        | 1018.9         | 16.2        | 1.5    | 12.1           |        | 5             | 54    | 16     | 4        |          |          |
| 33777 VOZNESENS'K          | 4734N    | 03120E    | 34        |           | 1014.4       | 1018.4         | 17.7        |        | 12.7           |        | 2             | 65    |        | 5        |          |          |
| 33791 KRYVYY RIH           | 4802N    | 03313E    | 124       |           | 1003.5       | 1018.2         | 17.4        | 1.7    | 11.2           |        | 1             | 2     | -29    | 1        | 207      | 90       |
| 33837 ODESA                | 4626N    | 03046E    | 42        |           | 1013.0       | 1018.0         | 18.7        | 1.7    | 13.7           | .2     | 4             | 16    | -20    | 3        | 245      | 102      |

# SURFACE

# SEPTEMBER 2009

| STATION                                  | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|--|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|  |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 33889 IZMAIL                             | 4522N    | 02851E    | 30        |           | 1014.5       | 1018.1         | 18.7        | 1.7    | 13.1           | -2     | 3             | 29    | -17    | 3        |          |          |
| 33902 KHERSON                            | 4638N    | 03234E    | 54        |           | 1010.7       | 1017.1         | 18.4        | 2.0    | 12.4           |        | 5             | 19    | -21    | 2        | 245      | 105      |
| <b>33915 ASKANIYA-NOVA</b>               | 4627N    | 03353E    | 30        |           | 1013.6       | 1017.2         | 18.1        | 1.6    | 12.1           | .2     | 5             | 53    | 25     | 5        | 264      | 109      |
| 33946 SIMFEROPOL'                        | 4441N    | 03408E    | 181       |           | 995.4        | 1016.6         | 17.8        | 1.2    | 13.2           | .7     | 3             | 24    | -13    | 2        | 272      | 104      |
| <b>33998 AI-PETRI</b>                    | 4426N    | 03405E    | 1180      |           | 884.5        |                | 11.9        | .9     | 9.6            |        | 6             | 42    | -22    | 3        | 224      | 95       |
| 34300 KHARKIV                            | 4958N    | 03608E    | 155       |           | 1000.1       | 1018.6         | 17.0        | 2.9    | 11.2           | .2     | 6             | 23    | -18    | 2        | 194      | 105      |
| 34415 IZIUM                              | 4911N    | 03718E    | 78        |           | 1008.9       | 1018.2         | 16.1        |        | 11.8           |        | 7             | 21    |        | 2        |          |          |
| 34504 DNIPROPETROVS'K                    | 4836N    | 03458E    | 143       |           | 1000.7       | 1017.9         | 17.0        | 1.5    | 13.0           |        | 5             | 74    | 38     | 5        | 219      | 95       |
| 34519 DONETS'K                           | 4804N    | 03746E    | 225       |           | 991.3        | 1017.9         | 16.9        | 2.0    | 11.0           |        | 4             | 26    | -14    | 2        |          |          |
| 34523 LUHANS'K                           | 4834N    | 03915E    | 62        |           | 1010.6       | 1018.0         | 16.8        | 1.7    | 11.3           |        | 6             | 33    | 1      | 3        | 232      | 100      |
| 34712 MARIUPOL'                          | 4702N    | 03730E    | 70        |           | 1008.6       | 1016.8         | 18.2        |        | 13.0           |        | 5             | 72    |        | 5        |          |          |
| <b>SYRIAN ARAB REPUBLIC</b>              |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>40001 KAMISHLI</b>                    | 3703N    | 04113E    | 455       |           | 956.3        | 1006.4         | 25.0        | -2.5   | 7.9            | -7     | 0             | 0     | -1     |          |          |          |
| 40007 ALEPPO INT. AEROPORT               | 3611N    | 03712E    | 393       |           | 965.8        | 1009.0         | 24.5        | -7     | 16.9           | 2.4    | 2             | 13    | 12     |          |          |          |
| <b>40022 LATTAKIA</b>                    | 3532N    | 03546E    | 7         |           | 1009.2       | 1010.0         | 25.5        | -1     | 22.3           | -2     | 8             | 83    | 75     |          | 206      | 72       |
| 40030 HAMA                               | 3507N    | 03645E    | 303       |           | 975.1        | 1009.3         | 25.0        | -3     | 15.8           | 2.4    | 4             | 35    | 34     |          |          |          |
| 40045 DEIR EZZOR                         | 3519N    | 04009E    | 215       |           | 985.6        | 1009.1         | 26.7        | -2     | 12.8           | 2.0    | 1             | 1     | 0      |          |          |          |
| <b>40061 PALMYRA</b>                     | 3433N    | 03818E    | 408       |           | 963.2        | 1008.2         | 25.8        | -4     | 14.3           | 1.6    | 01            | 1     | 0      |          | 311      | 105      |
| 40080 DAMASCUS INT. AIRPORT              | 3325N    | 03631E    | 609       |           | 941.4        | 1008.9         | 23.8        | .6     | 14.2           | 3.1    | 0             | 0     | -1     |          |          |          |
| <b>ISRAEL</b>                            |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 40179 BET DAGAN                          | 3200N    | 03449E    | 35        |           | 1008.0       | 1011.4         | 26.6        | 2.4    | 21.8           |        | 1             | 8     | 7      | 6        | 314      | 105      |
| 40180 BEN-GURION INT. AIRPORT            | 3200N    | 03454E    | 49        |           | 1007.0       | 1011.8         | 26.4        |        | 19.8           |        | 2             | 5     |        | 6        |          |          |
| <b>40199 EILAT</b>                       | 2933N    | 03457E    | 12        |           | 1011.5       | 1011.8         | 30.9        | .5     | 15.9           |        | 0             | 0     |        | 5        | 308      | 95       |
| <b>JORDAN</b>                            |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 40250 H-4 'IRWAISHED'                    | 3230N    | 03812E    | 683       |           | 932.9        | 1007.8         | 25.5        |        | 13.7           |        | 0             | 0     |        | 3        | 313      | 95       |
| 40265 MAFRAQ                             | 3222N    | 03615E    | 683       |           | 935.7        | 1012.0         | 23.0        |        | 17.6           |        | 0             | 0     |        | 4        | 299      | 95       |
| 40296 GHOR SAFI                          | 3102N    | 03528E    | -350      |           | 1051.7       | 1011.2         | 32.2        |        | 22.9           |        | 0             | 0     |        |          | 291      | 95       |
| 40310 MA'AN                              | 3010N    | 03547E    | 1069      |           | 893.2        | 1498 Y         | 23.4        | -4     | 12.7           | 1.5    | 0             | 0     | -1     | 4        | 289      | 91       |
| <b>ASIA</b>                              |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>RUSSIAN FEDERATION (ASIA)</b>         |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>20046 POLARGMO IM. E.T. KRENKELJA</b> | 8037N    | 05803E    | 22        |           | 999.4        | 1002.5         | -1.0        | 2.4    | 5.3            | .9     | 10            | 28    | 1      |          | 27       | 90       |
| <b>20069 OSTROV VIZE</b>                 | 7930N    | 07659E    | 10        |           | 1003.3       | 1004.6         | -7          | 2.7    | 5.6            | 1.1    | 7             | 37    | 15     | 5        | 7        | 27       |
| <b>20087 OSTROV GOLOMJIANNYJ</b>         | 7933N    | 09037E    | 8         |           | 1006.2       | 1007.2         | -1.5        |        | 5.1            |        | 4             | 11    |        | 1        | 61       | 155      |
| <b>20292 GMO IM.E.K. FEDOROVA</b>        | 7743N    | 10410E    | 15        |           | 1007.9       | 1009.0         | -6          | 2.1    | 5.4            | .7     | 4             | 10    | -18    | 0        | 71       | 165      |
| 20476 MYS STERLEGOVA                     | 7525N    | 08854E    | 11        |           | 1003.5       | 1004.9         | 2.6         |        | 4.9            |        | 12            | 41    |        |          |          |          |
| <b>20667 IM. M.V. POPOVA</b>             | 7320N    | 07003E    | 7         |           | 1000.5       | 1001.2         | 4.2         |        | 7.6            |        | 14            | 48    |        |          | 62       |          |
| <b>20674 OSTROV DIKSON</b>               | 7330N    | 08024E    | 47        |           | 997.6        | 1003.3         | 3.9         | 2.8    | 7.3            | 1.2    | 14            | 63    | 20     | 5        | 40       | 66       |

# SURFACE

# SEPTEMBER 2009

| STATION                  | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|--------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                          |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 20744 MALYE KARMAKULY    | 7222N    | 05242E    | 15        |           | 997.5        | 999.3          | 4.9         | 1.7    | 7.8            | 1.2    | 20            | 70    | 23     |          | 36       | 49       |
| 20891 HATANGA            | 7159N    | 10220E    | 33        |           | 1003.3       | 1007.4         | 4.3         | 2.7    | 6.9            | 1.0    | 10            | 50    | 16     | 5        | 115      | 131      |
| 20982 VOLOCHANKA         | 7058N    | 09430E    | 40        |           | 1002.2       | 1007.2         | 4.8         |        | 7.3            |        | 12            | 51    |        | 3        | 102      |          |
| 21802 SASKYLAH           | 7158N    | 11400E    | 18        |           | 1007.0       | 1009.3         | 2.8         |        | 6.3            |        | 10            | 32    |        |          | 83       |          |
| 21946 CHOKURDAH          | 7037N    | 14750E    | 61        |           | 1007.3       | 1014.9         | 2.4         | 1.9    | 6.3            | .8     | 4             | 19    | -5     |          | 103      | 123      |
| 21982 OSTROV VRANGELJA   | 7059N    | 17820E    | 5         |           | 1013.5       | 1014.1         | 1.1         | 2.1    | 5.8            | .8     | 2             | 14    | -7     |          | 97       | 133      |
| 23022 AMDERMA            | 6945N    | 06142E    | 49        |           | 996.6        | 1002.4         | 6.1         |        | 8.7            |        | 20            | 80    |        |          | 50       |          |
| 23032 MARESALE           | 6943N    | 06648E    | 25        |           | 999.5        | 1002.4         | 6.3         |        | 9.0            |        | 14            | 50    |        |          | 55       |          |
| 23058 ANTIPAJUTA         | 6905N    | 07651E    | 3         |           | 1004.2       | 1004.6         | 5.9         |        | 8.4            |        | 12            | 53    |        |          |          |          |
| 23074 DUDINKA            | 6924N    | 08610E    | 19        |           | 1004.2       | 1006.6         | 6.6         | 2.8    | 8.0            | 1.1    | 14            | 100   | 42     | 5        |          |          |
| 23205 NAR'JAN-MAR        | 6738N    | 05302E    | 12        |           | 1002.4       | 1003.9         | 8.2         | 2.6    | 9.7            | 1.7    | 17            | 71    | 20     | 5        | 135      | 138      |
| 23242 NOVYJ PORT         | 6741N    | 07253E    | 12        |           | 1003.0       | 1004.5         | 7.3         |        | 9.0            |        | 8             | 27    |        |          | 83       |          |
| 23256 TAZOVSKOE          | 6728N    | 07844E    | 8         |           | 1002.7       | 1006.1         | 7.2         |        | 9.7            |        | 16            | 63    |        |          | 84       |          |
| 23274 IGARKA             | 6728N    | 08634E    | 31        |           | 1004.2       | 1008.0         | 7.2         |        | 8.5            |        | 18            | 80    |        | 5        | 53       | 50       |
| 23324 PETRUN'            | 6626N    | 06046E    | 62        |           | 999.4        | 1006.9         | 7.8         |        | 9.6            |        | 14            | 71    |        | 4        | 105      | 110      |
| 23330 SALEHARD           | 6632N    | 06640E    | 16        |           | 1004.3       | 1006.3         | 7.5         | 2.4    | 9.2            | 1.7    | 12            | 43    | -6     |          | 127      | 132      |
| 23383 AGATA              | 6653N    | 09328E    | 278       |           | 976.3        | 1010.5         | 5.7         |        | 7.3            |        | 14            | 72    |        | 4        |          |          |
| 23405 UST'-CIL'MA        | 6526N    | 05216E    | 68        |           | 997.6        | 1007.3         | 9.7         | 3.4    | 1.0            | -7.2   | 15            | 75    | 15     | 4        | 107      | 113      |
| 23445 NADYM              | 6528N    | 07240E    | 19        |           | 1004.4       | 1006.8         | 8.8         |        | 9.8            |        | 14            | 67    |        |          |          |          |
| 23463 YANOV-STAN         | 6559N    | 08416E    | 40        |           | 1003.8       | 1008.9         | 7.0         |        | 8.8            |        | 15            | 81    |        | 5        |          |          |
| 23472 TURUHANSK          | 6547N    | 08756E    | 38        |           | 1004.7       | 1009.3         | 7.5         | 1.9    | 8.5            | 1.0    | 15            | 83    | 16     | 4        | 86       | 87       |
| 23552 TARKO-SALE         | 6455N    | 07749E    | 27        |           | 1004.5       | 1007.8         | 8.5         | 2.7    | 9.9            | 2.2    | 12            | 32    | -28    | 0        | 102      | 104      |
| 23631 BEREZOVO           | 6356N    | 06503E    | 32        |           | 1005.1       | 1009.0         | 8.7         | 2.2    | 9.7            | 1.6    | 8             | 17    | -44    | 1        | 165      | 133      |
| 23662 TOL'KA             | 6359N    | 08205E    | 33        |           | 1005.5       | 1009.7         | 8.1         |        | 9.3            |        | 13            | 71    |        |          | 121      |          |
| 23678 VERHNEIMBATSK      | 6309N    | 08757E    | 46        |           | 1006.5       | 1012.0         | 7.6         |        | 9.1            |        | 18            | 121   |        | 5        |          |          |
| 23711 TROICKO-PECHERSKOE | 6242N    | 05612E    | 139       |           | 994.4        | 1011.2         | 10.0        | 3.3    | 10.4           | 1.9    | 11            | 62    | -1     | 3        | 142      | 137      |
| 23724 NJAKSIMVOL'        | 6226N    | 06052E    | 51        |           | 1004.5       | 1010.7         | 10.0        | 3.0    | 9.2            | .9     | 8             | 19    | -41    |          | 163      | 139      |
| 23734 OKTJABR'SKOE       | 6227N    | 06603E    | 72        |           | 1001.9       | 1010.4         | 9.7         |        | 10.3           |        | 3             | 33    |        |          | 170      | 40       |
| 23867 LAR' YAK           | 6106N    | 08015E    | 57        |           | 1005.4       | 1012.3         | 9.7         |        | 9.9            |        | 10            | 42    |        |          | 122      |          |
| 23884 BOR                | 6136N    | 09001E    | 58        |           | 1006.9       | 1014.3         | 8.0         | 1.0    | 8.9            | .8     | 12            | 50    | -15    | 6        | 101      | 94       |
| 23891 BAJKIT             | 6140N    | 09622E    | 262       |           | 984.1        |                | 5.6         | .2     | 7.7            | .5     | 8             | 35    | -24    | 4        | 118      | 103      |
| 23914 CHERDYN'           | 6024N    | 05631E    | 207       |           | 989.3        | 1014.0         | 12.2        | 4.5    | 11.1           | 2.3    | 11            | 45    | -24    | 2        | 155      | 129      |
| 23921 IVDEL'             | 6041N    | 06027E    | 95        |           | 1001.2       | 1012.7         | 10.8        | 3.2    | 10.5           | 2.3    | 9             | 22    | -31    | 1        | 181      | 137      |
| 23933 HANTY-MANSIJSK     | 6101N    | 06902E    | 46        |           | 1005.4       | 1011.8         | 10.9        | 3.1    | 10.8           | 2.0    | 12            | 32    | -29    |          | 185      | 132      |
| 23955 ALEKSANDROVSKOE    | 6026N    | 07752E    | 48        |           | 1006.9       | 1012.8         | 9.9         | 2.2    | 9.8            | 1.1    | 9             | 30    | -23    |          | 158      | 119      |
| 23966 VANZIL'-KYNAC      | 6021N    | 08405E    | 99        |           | 1001.8       | 1013.9         | 8.6         |        | 9.4            |        | 13            | 51    |        |          | 103      | 95       |
| 23986 SEVERO-ENISEJSK    | 6023N    | 09320E    | 519       |           | 954.3        | 1015.5         | 5.8         |        | 7.3            |        | 15            | 71    |        | 4        |          |          |
| 24125 OLENEK             | 6830N    | 11220E    | 220       |           | 983.8        | 1010.4         | 4.1         | 2.0    | 6.2            | .4     | 9             | 65    | 34     |          | 146      | 146      |
| 24136 SUHANA             | 6837N    | 11820E    | 77        |           | 1001.6       | 1011.2         | 2.6         |        | 5.9            |        | 5             | 27    |        |          | 128      | 120      |
| 24143 DZARDZAN           | 6844N    | 12400E    | 39        |           | 1006.3       | 1011.1         | 3.7         | .9     | 6.5            | .6     | 5             | 56    | 16     |          |          |          |
| 24266 VERHOJANSK         | 6733N    | 13320E    | 137       |           | 995.1        | 1012.0         | 4.7         | 2.4    | 6.3            | 1.0    | 9             | 50    | 35     |          | 131      | 99       |
| 24329 SHELAGONTSY        | 6615N    | 11410E    | 236       |           | 983.1        | 1012.1         | 3.3         | .9     | 6.2            | .4     | 8             | 21    | -8     |          | 146      | 128      |
| 24343 ZHIGANSK           | 6646N    | 12320E    | 92        |           | 999.6        | 1011.0         | 4.5         | 1.0    | 6.8            | .7     | 9             | 46    | 12     |          | 160      | 126      |
| 24382 UST'-MOMA          | 6627N    | 14310E    | 196       |           | 988.6        | 1012.6         | 5.8         |        | 6.2            |        | 5             | 14    |        |          |          |          |
| 24507 TURA               | 6416N    | 10010E    | 168       |           | 990.2        | 1012.9         | 5.8         | .9     | 7.0            | .4     | 8             | 50    | 7      | 4        | 94       | 88       |
| 24606 KISLOKAN           | 6335N    | 10350E    | 211       |           | 987.0        | 1012.8         | 5.5         |        | 6.9            |        | 6             | 23    |        | 2        | 153      | 115      |

# SURFACE

# SEPTEMBER 2009

| STATION                | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                        |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 24641 VILJUJSK         | 6346N    | 12130E    | 111       |           | 997.9        | 1011.5         | 7.0         | 1.8    | 7.1            | .7     | 7             | 33    |        |          | 138      | 90       |
| 24661 SEGEN-KYUEL'     | 6400N    | 13010E    | 208       |           | 986.0        | 1011.5         | 5.8         |        | 7.4            |        | 14            | 116   |        |          |          |          |
| 24671 TOMPO            | 6357N    | 13550E    | 402       |           | 963.7        | 1012.1         | 5.7         |        | 7.0            |        | 10            | 55    |        |          | 80       | 60       |
| 24688 OJMJAKON         | 6315N    | 14300E    | 741       |           | 925.7        | 1013.2         | 4.8         | 3.1    | 6.3            | 1.3    | 4             | 14    | -7     |          | 146      | 97       |
| 24713 NAKANNO          | 6253N    | 10820E    | 246       |           | 982.7        | 1012.6         | 6.2         |        | 7.6            |        | 9             | 34    |        |          | 126      |          |
| 24738 SUNTAR           | 6209N    | 11730E    | 133       |           | 994.9        | 1011.7         | 7.4         | 1.8    | 8.3            | 1.8    | 12            | 56    | 27     |          | 137      | 88       |
| 24790 SUSUMAN          | 6247N    | 14810E    | 655       |           | 936.7        | 1014.7         | 4.2         |        | 5.9            |        | 2             | 9     |        |          | 207      |          |
| 24817 ERBOGACEN        | 6116N    | 10800E    | 291       |           | 978.1        | 1013.3         | 6.9         | 1.6    | 7.6            | .8     | 10            | 35    | 2      |          | 116      | 80       |
| 24908 VANAVARA         | 6020N    | 10210E    | 260       |           | 983.4        | 1015.0         | 6.6         | 1.2    | 7.4            | .3     | 11            | 56    | 16     | 5        | 127      | 89       |
| 24959 JAKUTSK          | 6201N    | 12940E    | 101       |           | 998.5        | 1010.9         | 7.8         | 2.1    | 8.0            | 1.5    | 8             | 26    | -2     |          | 126      | 72       |
| 24966 UST'-MAJYA       | 6023N    | 13420E    | 170       |           | 990.7        | 1011.3         | 8.3         | 2.4    | 8.6            | 1.8    | 6             | 20    | -15    |          | 166      | 108      |
| 24967 TEGYULTYA        | 6028N    | 13000E    | 171       |           | 991.5        | 1012.4         | 7.3         |        | 7.9            |        | 10            | 58    |        |          |          |          |
| 25062 MYS BILLINGSA    | 6953N    | 17540E    | 3         |           | 1014.4       | 1014.8         | 1.7         |        | 6.1            |        | 7             | 17    |        |          |          |          |
| 25138 OSTROVNOE        | 6807N    | 16410E    | 94        |           | 1003.5       | 1015.3         | 3.5         |        | 6.3            |        | 1             | 5     |        |          | 178      |          |
| 25173 MYS SHMIDTA      | 6854N    | 17920W    | 4         |           | 1014.1       | 1014.5         | 1.8         | 2.2    | 6.1            | .7     | 8             | 28    | -21    |          |          |          |
| 25206 SREDNE-KOLYMSK   | 6727N    | 15340E    | 21        |           | 1011.4       | 1014.0         | 6.2         |        | 6.3            |        | 01            | 1     |        |          |          |          |
| 25248 ILIRNEJ          | 6715N    | 16750E    | 353       |           | 972.7        | 1016.2         | 2.0         | 1.4    | 4.7            | -4     | 1             | 2     | -16    |          | 206      | 184      |
| 25282 MYS VANKAREM     | 6750N    | 17050W    | 5         |           | 1013.0       | 1013.6         | 3.3         |        | 6.9            |        | 9             | 20    |        |          | 117      |          |
| 25325 UST'-OLOJ        | 6633N    | 15920E    | 127       |           | 999.5        | 1015.3         | 3.7         | 1.3    | 5.8            | .3     | 1             | 7     | -15    |          | 247      |          |
| 25356 EN' MUVEEM       | 6623N    | 17320E    | 77        |           | 1006.0       | 1015.7         | 3.1         |        | 5.5            |        | 1             | 2     |        |          | 236      |          |
| 25378 EGVEKINOT        | 6621N    | 17900W    | 26        |           | 1011.5       | 1014.5         | 4.0         |        | 5.8            |        | 2             | 24    |        |          |          |          |
| 25399 MYS UELEN        | 6610N    | 16950W    | 3         |           | 1009.6       | 1010.5         | 4.0         | .9     | 6.9            | .0     | 6             | 19    | -40    |          | 95       | 138      |
| 25400 ZYRYANKA         | 6544N    | 15050E    | 43        |           | 1008.0       | 1013.3         | 6.7         | 3.0    | 6.8            | .6     | 3             | 6     | -21    |          | 225      | 165      |
| 25428 OMOLON           | 6514N    | 16030E    | 264       |           | 983.0        | 1015.0         | 3.7         |        | 5.6            |        | 5             | 13    |        |          | 241      |          |
| 25503 KORKODON         | 6445N    | 15350E    | 98        |           | 1002.3       | 1014.5         | 5.0         |        | 6.6            |        | 1             | 4     |        |          | 248      |          |
| 25538 VERHNEE PENZINO  | 6413N    | 16410E    | 326       |           | 975.9        | 1015.9         | 2.7         |        | 5.1            |        | 2             | 9     |        | 3        | 188      | 145      |
| 25551 MARKOVO          | 6441N    | 17020E    | 26        |           | 1012.2       | 1015.1         | 4.6         | .9     | 6.0            | -2     | 3             | 9     | -27    |          | 206      | 153      |
| 25563 ANADYR'          | 6447N    | 17730E    | 61        |           | 1007.1       | 1014.6         | 5.0         | 1.2    | 7.2            | .6     | 1             | 4     | -23    |          | 248      | 180      |
| 25594 BUHTA PROVIDENJA | 6425N    | 17310W    | 40        |           | 1006.7       | 1011.6         | 5.4         | .7     | 6.2            | -5     | 3             | 27    | -52    |          |          |          |
| 25677 BERINGOVSKAJA    | 6303N    | 17910E    | 82        |           | 1013.3       | 1013.9         | 5.4         |        | 7.4            |        | 5             | 42    |        |          |          |          |
| 25705 SREDNIKAN        | 6227N    | 15210E    | 260       |           | 981.8        | 1013.4         | 6.5         |        | 6.5            |        | 4             | 10    |        |          | 205      |          |
| 25927 BROHOVO          | 5939N    | 15410E    | 5         |           | 1014.1       | 1014.8         | 8.2         |        | 9.0            |        | 5             | 23    |        | 0        | 131      |          |
| 25932 TAJGONOS         | 6041N    | 16020E    | 30        |           | 1011.3       | 1015.1         | 6.7         |        | 8.0            |        | 1             | 4     |        |          | 109      |          |
| 25954 KORF             | 6021N    | 16600E    | 4         |           | 1014.5       | 1014.9         | 7.8         | .4     | 8.1            | -1     | 3             | 12    | -37    | 1        | 179      | 120      |
| 28009 KIRS             | 5922N    | 05213E    | 169       |           | 995.0        | 1015.3         | 11.0        |        | 11.1           |        | 8             | 31    |        | 1        |          |          |
| 28064 LEUSI            | 5937N    | 06543E    | 72        |           | 1005.2       | 1014.0         | 11.5        | 2.8    | 10.7           | 2.0    | 4             | 20    | -37    | 1        | 140      | 99       |
| 28138 BISER            | 5831N    | 05851E    | 463       |           | 961.2        | 1016.2         | 9.5         | 2.7    | 9.6            | 1.3    | 9             | 44    | -43    | 1        | 224      | 164      |
| 28224 PERM'            | 5801N    | 05618E    | 171       |           | 995.8        | 1016.3         | 12.3        |        | 11.3           |        | 6             | 27    |        |          | 157      |          |
| 28255 TURINSK          | 5803N    | 06341E    | 103       |           | 1003.0       | 1015.3         | 11.6        |        | 11.8           |        | 8             | 41    |        | 2        | 135      | 90       |
| 28275 TOBOL'SK         | 5809N    | 06815E    | 50        |           | 1009.2       | 1015.3         | 11.1        | 2.0    | 10.5           | 1.5    | 9             | 48    | 2      | 3        | 183      | 117      |
| 28418 SARAPUL          | 5628N    | 05344E    | 133       |           | 1001.7       | 1017.7         | 13.4        |        | 11.3           |        | 4             | 15    |        | 1        | 201      | 130      |
| 28434 KRASNOUFIMSK     | 5639N    | 05747E    | 206       |           | 992.9        | 1017.6         | 11.3        | 2.0    | 11.3           | 2.1    | 6             | 23    | -37    | 1        | 144      | 107      |
| 28493 TARA             | 5654N    | 07423E    | 73        |           | 1007.4       | 1016.3         | 10.2        | .9     | 9.5            | .7     | 10            | 26    | -15    | 2        | 192      | 117      |
| 28552 SADRINSK         | 5604N    | 06339E    | 89        |           | 1006.3       | 1017.0         | 13.1        | 2.5    | 11.2           | 2.2    | 5             | 17    | -25    | 1        | 222      | 126      |
| 28573 ISHIM            | 5606N    | 06926E    | 82        |           | 1006.9       | 1016.9         | 11.4        |        | 9.9            |        | 8             | 24    |        |          | 197      |          |
| 28666 MAKUSINO         | 5515N    | 06718E    | 140       |           | 1000.2       | 1017.0         | 12.3        |        | 10.0           |        | 5             | 11    |        | 1        | 219      |          |

# SURFACE

# SEPTEMBER 2009

| STATION                        | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|--------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>28698 OMSK</b>              | 5501N    | 07323E    | 122       |           | 1002.7       | 1017.5         | 10.8        | .3     | 9.7            | 1.0    | 6             | 45    | 12     |          | 199      | 111      |
| 28704 CULPANOVO                | 5430N    | 05025E    | 78        |           | 1009.2       | 1018.5         | 13.8        |        | 11.9           |        | 4             | 14    |        | 1        | 210      | 120      |
| <b>28722 UFA-DIOMA</b>         | 5443N    | 05550E    | 104       |           | 1005.2       | 1017.8         | 12.9        | 1.9    | 11.7           | 1.9    | 5             | 25    | -29    |          | 181      | 109      |
| 28748 TROIZK                   | 5405N    | 06137E    | 192       |           | 995.3        | 1018.2         | 13.4        |        | 10.8           |        | 4             | 14    |        | 2        | 206      | 50       |
| 29111 SREDNY VASJUGAN          | 5913N    | 07814E    | 69        |           | 1006.1       | 1014.5         | 9.6         |        | 9.4            |        | 8             | 32    |        |          | 142      |          |
| <b>29231 KOLPASEVO</b>         | 5819N    | 08257E    | 75        |           | 1006.4       | 1015.7         | 9.3         | 1.0    | 9.0            | .3     | 9             | 41    | -9     |          | 158      | 107      |
| <b>29263 ENISEJSK</b>          | 5827N    | 09209E    | 79        |           | 1006.9       | 1016.5         | 8.7         | .7     | 8.6            | .2     | 11            | 57    | 10     | 3        | 140      | 99       |
| <b>29282 BOGUCANY</b>          | 5823N    | 09727E    | 133       |           | 1000.4       | 1016.6         | 8.4         | .5     | 8.4            | .3     | 9             | 32    | -10    | 2        | 131      | 92       |
| 29313 PUDINO                   | 5732N    | 07922E    | 97        |           | 1004.2       | 1016.0         | 8.8         |        | 8.7            |        | 9             | 21    |        |          | 161      |          |
| 29328 BAKCHAR                  | 5705N    | 08155E    | 110       |           | 1003.2       | 1016.6         | 9.0         |        | 8.5            |        | 8             | 42    |        |          | 166      |          |
| 29379 TASEEVO                  | 5712N    | 09433E    | 168       |           | 997.9        | 1018.2         | 8.2         |        | 8.2            |        | 8             | 25    |        |          |          |          |
| 29570 KRASNOJARSK OPYTNOE POLE | 5602N    | 09245E    | 276       |           | 984.5        | 1018.0         | 8.8         |        | 8.5            |        | 9             | 34    |        | 3        |          |          |
| 29594 TAJSHET                  | 5557N    | 09800E    | 307       |           | 981.0        | 1018.1         | 8.0         |        | 8.6            |        | 7             | 45    |        |          | 151      |          |
| <b>29612 BARABINSK</b>         | 5520N    | 07822E    | 120       |           | 1002.7       | 1017.2         | 10.0        | .1     | 8.6            | -3     | 6             | 23    | -10    |          | 218      | 120      |
| 29645 KEMEROVO CGMS            | 5515N    | 08613E    | 148       |           | 999.7        | 1017.6         | 10.1        |        | 8.8            |        | 5             | 29    |        |          | 183      |          |
| 29752 NENASTNAYA               | 5445N    | 08849E    | 1183      |           | 881.5        | 1490 Y         | 5.1         |        | 6.8            |        | 12            | 138   |        | 3        | 151      | 85       |
| 29789 VERHNJAJA GUTARA         | 5413N    | 09658E    | 984       |           | 904.2        | 1018.8         | 4.9         |        | 6.6            |        | 10            | 61    |        |          | 134      |          |
| <b>29866 MINUSINSK</b>         | 5342N    | 09142E    | 254       |           | 987.4        | 1018.0         | 9.9         | -2     | 8.9            | -1     | 7             | 38    | -4     | 3        | 171      | 106      |
| 29939 BIJSK ZONAL'NAYA         | 5241N    | 08457E    | 228       |           | 990.9        | 1017.9         | 11.5        |        | 9.8            |        | 3             | 30    |        | 2        |          |          |
| <b>30054 VITIM</b>             | 5927N    | 11230E    | 190       |           | 991.3        | 1014.4         | 7.6         | 1.2    | 7.8            | .0     | 14            | 88    | 44     |          | 96       | 76       |
| 30089 DZHIKIMDA                | 5901N    | 12140E    | 175       |           | 991.8        | 1013.2         | 6.6         |        | 8.0            |        | 10            | 55    |        |          |          |          |
| <b>30230 KIRENSK</b>           | 5746N    | 10800E    | 259       |           | 984.7        | 1016.3         | 6.9         | .1     | 7.4            | -4     | 8             | 46    | 6      |          | 108      | 80       |
| 30252 MAMAKAN                  | 5749N    | 11410E    | 249       |           | 984.4        | 1014.6         | 6.9         |        | 8.4            |        | 13            | 73    |        |          | 92       |          |
| 30309 BRATSK                   | 5617N    | 10140E    | 416       |           | 967.7        | 1017.6         | 7.6         | -5     | 8.7            | .3     | 9             | 44    | 4      |          | 134      | 81       |
| <b>30372 CHARA</b>             | 5654N    | 11810E    | 711       |           | 928.5        | 1012.3         | 4.7         | -4     | 6.7            | .2     | 8             | 93    | 46     | 5        | 131      | 81       |
| 30385 UST'-NJUKZHA             | 5635N    | 12120E    | 426       |           | 959.4        | 1010.2         | 6.7         |        | 7.9            |        | 10            | 171   |        |          | 127      | 30       |
| 30433 NIZHNEANGARSK            | 5547N    | 10930E    | 487       |           | 958.4        | 1015.5         | 7.7         | -3     | 7.6            | .2     | 6             | 28    | -13    | 2        | 140      | 83       |
| 30521 ZHIGALOVO                | 5448N    | 10510E    | 426       |           | 967.5        | 1018.0         | 6.3         | -1     | 7.3            | -7     | 7             | 58    | 24     |          | 126      | 84       |
| <b>30554 BAGDARIN</b>          | 5428N    | 11330E    | 903       |           | 908.4        | 1013.6         | 5.6         | .8     | 6.3            | .5     | 6             | 30    | -8     | 3        | 184      | 99       |
| 30612 BALAGANSK                | 5400N    | 10300E    | 427       |           | 967.2        | 1018.6         | 7.5         |        | 8.3            |        | 9             | 54    |        |          |          |          |
| 30636 BARGUZIN                 | 5337N    | 10930E    | 489       |           | 956.4        | 1014.5         | 7.7         |        | 7.7            |        | 9             | 63    |        | 4        | 184      | 89       |
| 30650 ROMANOVKA                | 5312N    | 11240E    | 923       |           | 906.2        | 1013.2         | 5.9         |        | 6.4            |        | 8             | 67    |        | 5        |          |          |
| <b>30673 MOGOCHA</b>           | 5345N    | 11940E    | 625       |           | 937.0        | 1010.5         | 7.2         | .7     | 8.0            | 1.2    | 11            | 86    | 44     | 5        |          |          |
| <b>30710 IRKUTSK</b>           | 5216N    | 10410E    | 469       |           | 962.6        | 1018.6         | 8.0         | -7     | 8.3            | -3     | 12            | 88    | 38     |          | 171      | 94       |
| 30758 CHITA                    | 5205N    | 11320E    | 671       |           | 934.3        | 1012.8         | 8.7         | .8     | 6.9            | -3     | 7             | 32    | -6     | 3        | 185      | 87       |
| 30777 SRETENSK                 | 5214N    | 11740E    | 525       |           | 948.9        | 1010.8         | 8.4         |        | 8.0            |        | 11            | 56    |        | 5        | 155      | 80       |
| 30844 HILOK                    | 5121N    | 11020E    | 802       |           | 921.3        | 1015.0         | 6.7         |        | 6.6            |        | 9             | 80    |        | 5        |          |          |
| <b>30879 NERCHINSKIJ ZAVOD</b> | 5119N    | 11930E    | 619       |           | 937.9        | 1010.4         | 8.3         | -2     | 7.5            | -2     | 13            | 77    | 30     | 5        | 166      | 80       |
| <b>30925 KJAHTA</b>            | 5022N    | 10620E    | 797       |           | 923.1        | 1015.7         | 8.5         |        | 7.9            |        | 10            | 61    |        | 5        | 226      | 102      |
| 30935 KRASNYJ CHIKOJ           | 5022N    | 10840E    | 771       |           | 925.9        | 1016.0         | 7.2         |        | 7.2            |        | 5             | 28    |        | 3        | 180      | 95       |
| <b>30949 KYRA</b>              | 4934N    | 11150E    | 908       |           | 909.0        | 1013.5         | 8.6         | .2     | 6.9            | -1     | 6             | 42    | 2      | 4        | 236      | 103      |
| <b>30965 BORZYA</b>            | 5024N    | 11630E    | 676       |           | 932.9        | 1011.7         | 8.6         | -2     | 7.5            | -1     | 5             | 24    | -12    | 2        | 221      | 95       |
| <b>31004 ALDAN</b>             | 5837N    | 12520E    | 679       |           | 931.6        | 1011.2         | 6.8         | 2.0    | 7.9            | 1.4    | 12            | 134   | 48     |          | 119      | 83       |
| <b>31088 OHOTSK</b>            | 5922N    | 14310E    | 6         |           | 1012.5       | 1013.2         | 10.2        | 1.9    | 11.4           | 2.6    | 12            | 128   | 50     | 5        | 94       | 55       |
| 31137 TOKO                     | 5617N    | 13100E    | 850       |           | 912.6        | 1011.5         | 5.4         |        | 7.6            |        | 8             | 33    |        |          |          |          |
| 31152 NEL'KAN                  | 5739N    | 13600E    | 318       |           | 973.0        | 1011.1         | 8.6         |        | 9.1            |        | 6             | 30    |        |          | 122      |          |

# SURFACE

# SEPTEMBER 2009

| STATION                           | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|-----------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                   |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>31168</b> AYAN                 | 5627N    | 13800E    | 8         |           | 1010.6       | 1011.7         | 9.9         | .8     | 10.6           | 2.0    | 12            | 311   | 161    |          | 119      | 76       |
| 31174 BOL'SHOJ SHANTAR            | 5450N    | 13730E    | 21        |           | 1009.7       | 1010.8         | 9.4         |        | 10.3           |        | 8             | 84    |        |          | 186      | 110      |
| <b>31253</b> BOMNAK               | 5443N    | 12850E    | 357       |           | 966.8        | 1010.0         | 9.4         | 1.1    | 9.6            | 1.6    | 15            | 137   | 59     | 5        | 128      | 77       |
| <b>31329</b> EKIMCHAN             | 5304N    | 13250E    | 542       |           | 947.3        | 1011.1         | 8.2         | .9     | 9.5            | 1.5    | 16            | 129   | 54     | 4        | 104      | 78       |
| <b>31369</b> NIKOLAEVSK-NA-AMURE  | 5309N    | 14040E    | 68        |           | 1002.0       | 1010.1         | 11.0        | .6     | 11.9           | 1.6    | 17            | 115   | 27     |          |          |          |
| <b>31416</b> IM POLINY OSIPENKO   | 5225N    | 13630E    | 73        |           | 1001.6       | 1010.3         | 11.3        | 1.1    | 11.1           | 1.4    | 9             | 68    | -3     |          | 166      | 97       |
| 31439 BOGORODSKOE                 | 5223N    | 14020E    | 35        |           | 1006.3       | 1010.5         | 12.0        |        | 11.7           |        | 14            | 82    |        |          |          |          |
| 31478 SOFIJSKIJ PRIISK            | 5216N    | 13350E    | 902       |           | 906.8        | 1011.0         | 6.4         |        | 7.9            |        | 17            | 118   |        | 6        |          |          |
| <b>31707</b> EKATERINO-NIKOL'SKOE | 4744N    | 13050E    | 73        |           | 1002.8       | 1011.5         | 13.3        | .3     | 11.0           | -4     | 5             | 56    | -17    |          |          |          |
| 31770 SOVETSKAYA GAVAN'           | 5100N    | 13950E    | 238       |           | 1008.0       | 1010.8         | 12.9        |        | 11.8           |        | 10            | 41    |        |          | 191      | 110      |
| <b>31829</b> ZOLOTIJ              | 4719N    | 13850E    | 26        |           | 1008.1       | 1011.7         | 14.0        | .4     | 12.1           | -3     | 6             | 30    | -100   |          |          |          |
| 31873 DAL'NERECHENSK              | 4552N    | 13340E    | 101       |           | 1001.0       | 1013.0         | 13.7        |        | 12.0           |        | 10            | 67    |        |          |          |          |
| <b>31960</b> VLADIVOSTOK          | 4307N    | 13150E    | 183       |           | 992.1        | 1014.3         | 15.6        | .3     | 13.3           | -9     | 5             | 67    | -57    |          | 217      | 110      |
| 31989 PREOBRAZHENIE               | 4254N    | 13350E    | 43        |           | 1008.9       | 1014.0         | 15.4        |        | 13.3           |        | 6             | 49    |        |          |          |          |
| 32027 POGIBI                      | 5213N    | 14130E    | 6         |           | 1009.6       | 1010.5         | 12.3        |        | 13.0           |        | 15            | 54    |        |          | 141      |          |
| 32061 ALEKSANDROVSK-SAHALINSKIJ   | 5054N    | 14210E    | 31        |           | 1006.8       | 1010.5         | 12.4        | .6     | 12.2           | 1.5    | 18            | 160   | 63     | 5        | 173      | 96       |
| <b>32098</b> PORONAJSK            | 4913N    | 14300E    | 8         |           | 1010.6       | 1011.5         | 12.4        | .5     | 12.6           | 1.2    | 10            | 120   | 2      | 3        | 184      | 105      |
| 32099 MYS TERPENIYA               | 4839N    | 14440E    | 6         |           | 1010.7       | 1011.5         | 10.5        |        | 12.3           |        | 5             | 69    |        |          |          |          |
| 32150 JUZHNO-SAHALINSK            | 4657N    | 14240E    | 24        |           | 1009.2       | 1012.0         | 13.5        | .8     | 12.8           | .7     | 9             | 53    | -53    | 1        | 220      | 118      |
| 32165 JUZHNO-KURIL'SK             | 4401N    | 14550E    | 49        |           | 1008.1       | 1013.9         | 15.0        | .5     | 14.7           | .6     | 12            | 137   | -30    | 2        | 188      | 118      |
| 32213 MYS LOPATKA                 | 5052N    | 15640E    | 47        |           | 1007.5       | 1013.6         | 8.7         |        | 10.6           |        | 13            | 82    |        | 3        | 70       | 100      |
| 32287 UST'-HAJRJUZOVO             | 5705N    | 15640E    | 8         |           | 1013.0       | 1014.0         | 8.0         |        | 9.3            |        | 8             | 20    |        | 1        | 176      | 125      |
| <b>32389</b> KLJUCHI              | 5619N    | 16050E    | 29        |           | 1010.0       | 1013.5         | 9.1         | .4     | 9.5            | .8     | 9             | 107   | 53     | 5        | 169      | 107      |
| <b>32411</b> ICA                  | 5535N    | 15530E    | 6         |           | 1011.7       | 1012.4         | 9.8         | 1.4    | 8.3            | -1.6   | 6             | 25    | -59    | 1        | 152      | 111      |
| 32477 SOBOLEVO                    | 5418N    | 15550E    | 14        |           | 1010.4       | 1013.5         | 9.2         |        | 10.0           |        | 6             | 64    |        | 2        | 151      | 120      |
| 32509 SEMYACHIK                   | 5407N    | 15950E    | 27        |           | 1009.5       | 1012.8         | 10.0        |        | 10.1           |        | 7             | 108   |        | 3        | 147      | 85       |
| <b>32618</b> OSTROV BERINGA       | 5512N    | 16550E    | 18        |           | 1010.7       | 1013.1         | 10.0        | .9     | 10.5           | .4     | 8             | 68    | 3      | 3        | 134      | 109      |
| 35011 SOROCHINSK                  | 5226N    | 05308E    | 123       |           | 1004.4       | 1019.0         | 15.7        |        | 10.3           |        | 2             | 14    |        | 2        |          |          |
| 36038 ZMEINOGORSK                 | 5109N    | 08212E    | 355       |           | 975.9        | 1018.1         | 11.0        |        | 9.7            |        | 8             | 70    |        |          | 185      |          |
| 36064 YAJLJU                      | 5146N    | 08736E    | 480       |           | 962.3        | 1019.2         | 10.6        |        | 9.6            |        | 13            | 128   |        |          | 183      |          |
| 36096 KYZYL                       | 5143N    | 09430E    | 628       |           | 944.2        | 1018.2         | 9.9         |        | 7.6            |        | 3             | 32    |        | 4        | 213      | 90       |
| 36229 UST'-KOKSA                  | 5017N    | 08537E    | 978       |           | 906.7        | 1019.5         | 7.9         |        | 8.3            |        | 11            | 88    |        |          | 146      |          |
| 36259 KOSH-AGACH                  | 5001N    | 08841E    | 1759      |           | 823.7        | 1502 Y         | 6.7         |        | 5.0            |        | 4             | 8     |        |          | 249      |          |
| 36307 ERZIN                       | 5016N    | 09507E    | 1101      |           | 892.0        | 1500 Y         | 9.3         |        | .6             |        | 3             | 19    |        | 0        |          |          |
| <b>KAZAKHSTAN</b>                 |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 28679 PETROPAVLOVSK               | 5450N    | 06909E    | 142       |           | 1000.9       | 1018.0         | 11.4        | .7     | 9.9            | 1.1    | 9             | 26    | -3     | 3        | 166      | 90       |
| 28766 BLAGOVESHCHENKA             | 5422N    | 06658E    | 151       |           | 999.5        | 1017.6         | 12.0        |        | 10.2           |        | 8             | 40    |        | 4        |          |          |
| 28879 KOKSHETAY                   | 5317N    | 06923E    | 229       |           | 990.7        | 1018.2         | 11.9        | .6     | 9.3            | .9     | 5             | 30    | 6      | 4        | 229      | 121      |
| <b>28952</b> KOSTANAY             | 5313N    | 06337E    | 170       |           | 1000.5       | 1018.7         | 14.0        | 1.9    | 11.7           | 3.3    | 1             | 11    | -15    |          | 249      | 119      |
| 28966 RUZAEVKA                    | 5249N    | 06658E    | 227       |           | 991.1        | 1018.2         | 12.2        |        | 8.9            |        | 2             | 5     |        |          |          |          |
| <b>29807</b> IRTYSHSK             | 5321N    | 07527E    | 94        |           | 1006.8       | 1017.3         | 11.8        | .1     | 8.6            | .0     | 5             | 14    | -6     |          |          |          |
| 35067 ESIL'                       | 5153N    | 06620E    | 221       |           | 992.5        | 1018.9         | 13.1        |        | 8.2            |        | 2             | 9     |        | 1        |          |          |
| <b>35078</b> ATBASAR              | 5149N    | 06822E    | 304       |           | 982.6        | 1018.8         | 12.2        | .7     | 7.9            | .4     | 4             | 10    | -14    | 2        | 231      | 105      |
| 35108 URALSK                      | 5115N    | 05117E    | 37        |           | 1014.1       | 1018.5         | 16.3        | 2.2    | 10.3           | 1.0    | 4             | 25    | -1     | 3        | 246      | 112      |
| 35188 ASTANA                      | 5108N    | 07122E    | 350       |           | 977.3        | 1018.7         | 12.4        | .4     | 8.4            | .7     | 6             | 27    | 3      | 3        | 203      | 88       |

# SURFACE

# SEPTEMBER 2009

| STATION                      | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                              |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 35217 DZHAMBETJY             | 5015N    | 05234E    | 32        |           | 1014.6       | 1018.4         | 17.7        |        | 9.8            |        | 3             | 9     |        |          |          |          |
| 35229 AKTOBE                 | 5017N    | 05709E    | 219       |           | 993.3        | 1019.2         | 15.5        | 1.8    | 10.1           | 1.7    | 1             | 2     | -21    | 1        | 220      | 97       |
| <b>35394 KARAGANDA</b>       | 4948N    | 07309E    | 553       |           | 953.9        | 1018.8         | 11.2        | -1.0   | 7.6            | .5     | 4             | 21    | -1     |          |          |          |
| 35406 TAIPAK                 | 4903N    | 05152E    | 2         |           | 1017.4       | 1017.6         | 18.5        | 2.2    | 9.7            | .4     | 2             | 21    | 7      |          | 268      | 109      |
| <b>35416 UIL</b>             | 4904N    | 05441E    | 128       |           | 1007.1       | 1018.5         | 18.0        | 2.2    | 9.2            | 1.1    | 0             | T     | -16    | 5        | 266      | 106      |
| 35426 TEMIR                  | 4909N    | 05707E    | 234       |           | 991.5        | 1019.2         | 16.0        |        | 9.2            |        | 1             | 9     |        | 2        |          |          |
| 35671 ZHEZKAZGAN             | 4748N    | 06743E    | 346       |           | 977.0        | 1017.6         | 14.7        |        | 7.5            |        | 2             | 5     |        |          | 301      |          |
| 35700 ATYRAU                 | 4707N    | 05155E    | -22       |           | 1019.5       | 1017.3         | 19.8        | 2.4    | 11.0           | 1.0    | 2             | 4     | -7     |          | 251      | 94       |
| 35746 ARALSKOE MORE          | 4647N    | 06139E    | 62        |           | 1010.2       | 1017.7         | 18.3        | .9     | 9.6            | 1.3    | 2             | 7     | 0      | 4        | 305      | 103      |
| <b>35796 BALHASH</b>         | 4648N    | 07505E    | 350       |           | 976.3        | 1016.9         | 14.8        | -5     | 10.2           | 1.6    | 5             | 13    | 4      |          | 258      | 86       |
| <b>35849 KAZALINSK</b>       | 4546N    | 06207E    | 68        |           | 1009.6       | 1017.6         | 17.5        | .2     | 8.4            | -2     | 2             | 6     | -2     | 3        | 289      | 96       |
| <b>35925 SAM</b>             | 4524N    | 05607E    | 88        |           | 1006.9       | 1017.3         | 19.2        | 1.3    | 9.1            | .1     | 2             | 22    | 14     |          |          |          |
| 35953 DZHUSALY               | 4530N    | 06405E    | 103       |           | 1004.5       | 1016.6         | 18.4        |        | 8.0            |        | 1             | 3     |        | 3        |          |          |
| 36003 PAVLODAR               | 5218N    | 07656E    | 122       |           | 1003.1       | 1017.7         | 11.9        |        | 8.9            |        | 4             | 13    |        | 2        |          |          |
| <b>36177 SEMIPALATINSK</b>   | 5025N    | 08018E    | 196       |           | 994.5        | 1017.8         | 12.3        | -2     | 9.6            | 1.4    | 6             | 27    | 9      | 4        | 195      | 81       |
| 36208 LENINOGORSK            | 5020N    | 08333E    | 811       |           | 924.0        | 1017.7         | 9.4         | -6     | 8.8            | .8     | 11            | 93    | 24     | 5        |          |          |
| 36428 BOL'SHE NARYMSKOE      | 4912N    | 08431E    | 401       |           |              |                | 12.0        |        | 9.8            |        | 6             | 51    |        |          |          |          |
| <b>36535 KOKPEKTY</b>        | 4845N    | 08222E    | 512       |           | 958.1        | 1018.3         | 11.6        | -2     | 8.0            | .5     | 7             | 23    | 7      |          | 205      | 80       |
| <b>36859 ZHARKENT</b>        | 4410N    | 08004E    | 645       |           | 941.3        | 1014.4         | 17.2        | -1     | 11.3           | 1.6    | 3             | 9     | 1      |          | 211      | 78       |
| <b>36870 ALMATY</b>          | 4314N    | 07656E    | 851       |           | 920.2        | 1015.6         | 16.6        | -2     | 10.9           | 1.8    | 10            | 54    | 24     | 5        | 197      | 80       |
| <b>38001 FORT SHEVCHENKO</b> | 4433N    | 05015E    | -25       |           | 1018.7       | 1016.0         | 20.8        | 1.4    | 14.3           | 1.2    | 3             | 61    | 45     |          |          |          |
| 38062 KYZYLORDA              | 4451N    | 06530E    | 130       |           | 1000.6       | 1015.8         | 18.6        | .8     | 9.3            | 1.4    | 4             | 18    | 15     | 5        |          |          |
| 38069 CHILI                  | 4410N    | 06645E    | 153       |           | 997.3        | 1015.3         | 18.0        |        | 5.9            |        | 0             | T     |        | 0        |          |          |
| 38198 TURKESTAN              | 4316N    | 06813E    | 207       |           | 988.9        | 1013.4         | 20.2        | .5     | 10.6           | 3.3    | 1             | 4     | 2      |          |          |          |
| 38328 SHYMKENT               | 4219N    | 06942E    | 604       |           | 944.7        | 1013.0         | 19.5        |        | 10.0           |        | 2             | 20    |        | 5        |          |          |
| 38334 AUL TURARA RYSKULOVA   | 4229N    | 07018E    | 808       |           | 922.9        | 1013.2         | 18.5        |        | 9.7            |        | 3             | 23    |        | 4        |          |          |
| 38341 ZHAMBYL                | 4251N    | 07123E    | 655       |           | 940.3        | 1014.2         | 17.9        |        | 10.5           |        | 2             | 19    |        | 5        | 268      |          |
| 38343 KULAN                  | 4257N    | 07245E    | 683       |           | 935.1        | 1014.5         | 17.2        |        | 10.1           |        | 4             | 34    |        | 5        |          |          |
| 38439 CHARDARA               | 4122N    | 06800E    | 275       |           | 981.4        | 1012.9         | 21.7        |        | 11.2           |        | 1             | 3     |        |          |          |          |
| <b>TAJIKISTAN</b>            |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 38836 DUSHANBE               | 3833N    | 06847E    | 800       |           | 922.3        | 1010.6         | 21.6        | 1.5    | 12.3           | 1.5    | 0             | 0     | -3     |          | 230      | 80       |
| <b>TURKMENISTAN</b>          |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 38388 EKEZHE                 | 4102N    | 05746E    | 62        |           | 1008.6       | 1015.3         | 22.0        |        | 8.4            |        | 1             | 5     |        |          | 288      | 150      |
| <b>38507 TURKMENBASHI</b>    | 4003N    | 05300E    | 82        |           | 1004.3       | 1014.0         | 22.7        | .6     | 12.6           | .5     | 2             | 10    | 6      |          | 269      | 91       |
| 38511 CHAGYL                 | 4047N    | 05520E    | 115       |           | 1001.3       | 1014.7         | 22.0        |        | 9.9            |        | 4             | 27    |        |          | 275      |          |
| 38545 DARGANATA              | 4028N    | 06217E    | 142       |           | 997.4        | 1014.1         | 20.2        |        | 11.4           |        | 3             | 13    |        |          | 286      | 15       |
| 38656 ERBENT                 | 3919N    | 05836E    | 87        |           | 1003.6       | 1014.0         | 24.8        | 1.0    | 10.1           | 1.7    | 2             | 12    | 10     |          |          |          |
| 38687 CHARDZHEV              | 3905N    | 06336E    | 190       |           | 991.3        | 1013.6         | 21.4        | .1     | 10.9           | .9     | 0             | T     | -1     |          | 309      | 96       |
| <b>38750 ESENGYLY</b>        | 3728N    | 05338E    | -22       |           | 1016.3       | 1013.6         | 24.7        | 1.0    | 21.4           | 1.3    | 4             | 38    | 25     |          | 260      | 104      |
| <b>38763 GYZYLARBAT</b>      | 3859N    | 05617E    | 92        |           | 1003.3       | 1013.2         | 24.1        | .2     | 12.5           | 1.1    | 1             | 9     | 3      |          | 292      | 99       |
| 38880 ASHGABAT KESHI         | 3755N    | 05808E    | 312       |           | 989.6        | 1013.6         | 23.2        | .1     | 12.7           | 1.7    | 6             | 30    | 26     |          |          |          |
| <b>38895 BAJRAMALY</b>       | 3736N    | 06211E    | 240       |           | 986.3        | 1013.5         | 23.8        | 1.4    | 11.2           | 2.7    | 0             | T     | -1     |          | 295      | 98       |
| 38974 SARAGT                 | 3632N    | 06113E    | 275       |           | 981.0        | 1012.5         | 24.3        | .9     | 10.4           | 3.1    | 01            | 1     | 0      |          | 296      | 94       |

# SURFACE

# SEPTEMBER 2009

| STATION                                   | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|---|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|   |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>UZBEKISTAN</b>                         |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 38178 AK-BAJTAL                           | 4309N    | 06420E    | 234       |           | 988.3        | 1015.2         | 20.0        | .0     | 8.7            | 1.0    | 0             | T     | -2     | 3        | 289      | 90       |
| <b>38262 CHIMBAJ</b>                      | 4257N    | 05949E    | 66        |           | 1007.6       | 1015.4         | 19.1        | 1.0    | 11.4           | .7     | 2             | 15    | 13     | 6        | 278      | 97       |
| 38396 URGENCH                             | 4134N    | 06034E    | 101       |           | 1003.4       | 1015.3         | 19.2        |        | 11.9           |        | 2             | 17    |        | 6        |          |          |
| 38403 BUZAUBAJ                            | 4145N    | 06228E    | 98        |           | 1003.0       | 1014.4         | 21.7        |        | 9.6            |        | 1             | 4     |        | 5        |          |          |
| <b>38413 TAMDY</b>                        | 4144N    | 06437E    | 237       |           | 987.2        | 1014.6         | 21.8        | .1     | 8.0            | .3     | 0             | T     | -1     | 3        | 288      | 93       |
| <b>38457 TASHKENT</b>                     | 4116N    | 06916E    | 488       |           | 957.3        | 1012.6         | 20.8        | .7     | 11.2           | 1.1    | 2             | 12    | 7      | 5        | 272      | 91       |
| 38611 NAMANGAN                            | 4059N    | 07135E    | 474       |           | 959.1        | 1012.7         | 21.8        |        | 12.8           |        | 2             | 4     |        | 4        | 290      | 100      |
| 38618 FERGANA                             | 4022N    | 07145E    | 577       |           | 946.2        | 1010.9         | 21.3        | 1.3    | 14.6           | 2.2    | 01            | 1     | -3     | 2        | 271      | 93       |
| 38683 BUHARA                              | 3943N    | 06437E    | 226       |           | 984.6        | 1012.3         | 21.3        |        | 10.2           |        | 0             | T     |        | 4        |          |          |
| 38696 SAMARKAND                           | 3934N    | 06657E    | 724       |           | 930.7        | 1011.4         | 20.6        | 1.3    | 13.3           | 3.5    | 0             | T     | -4     | 3        | 298      | 96       |
| 38812 KARSHI                              | 3848N    | 06543E    | 376       |           | 967.9        | 1010.6         | 21.9        |        | 12.4           |        | 0             | T     |        | 3        |          |          |
| 38927 TERMEZ                              | 3714N    | 06716E    | 310       |           | 974.8        | 1009.9         | 24.0        | 2.0    | 12.5           | 1.3    | 0             | T     | T      | 4        | 320      | 102      |
| <b>SAUDI ARABIA</b>                       |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 40356 TURAIF                              | 3141N    | 03844E    | 855       |           | 915.1        | 1491 Y         | 25.2        |        | 11.4           |        | 0             | 0     |        |          | 320      |          |
| 40360 GURIAT                              | 3124N    | 03717E    | 509       |           | 953.0        | 1008.3         | 25.8        |        | 12.9           |        | 0             | 0     |        |          |          |          |
| <b>40361 AL-JOUF</b>                      | 2947N    | 04006E    | 689       |           | 934.8        | 1007.1         | 29.7        |        | 8.9            |        | 0             | 0     |        |          |          |          |
| 40362 RAFHA                               | 2937N    | 04329E    | 449       |           | 957.4        |                | 31.1        |        | 10.3           |        | 0             | 0     |        |          | 290      |          |
| 40373 AL-QAISUMAH                         | 2819N    | 04608E    | 358       |           | 966.7        | 1005.7         | 33.3        |        | 13.0           |        | 0             | 0     |        |          |          |          |
| 40375 TABUK                               | 2823N    | 03636E    | 778       |           | 924.8        | 1007.6         | 28.5        |        | 9.9            |        | 0             | 0     |        |          | 322      |          |
| 40377 HAFR AL-BATIN                       | 2755N    | 04531E    | 414       |           | 957.2        | 1001.5         | 36.3        |        | 11.8           |        | 0             | 0     |        |          |          |          |
| <b>40394 HAIL</b>                         | 2726N    | 04141E    | 1015      |           | 899.9        | 1507 Y         | 30.3        |        | 8.7            |        | 0             | 0     |        |          | 314      |          |
| 40400 AL-WEJH                             | 2612N    | 03629E    | 24        |           | 1005.1       | 1007.8         | 28.4        |        | 29.2           |        | 0             | 0     |        |          | 313      |          |
| 40405 GASSIM                              | 2618N    | 04346E    | 648       |           | 935.8        | 1005.0         | 33.4        |        | 11.4           |        | 0             | 0     |        |          |          |          |
| 40416 DHAHRAN                             | 2616N    | 05010E    | 26        |           | 1002.3       | 1004.2         | 33.9        | 2.0    | 24.5           | 6.9    | 0             | 0     | 0      |          |          |          |
| 40417 K.F.I.A. (KING FAHAD INT. AI        | 2627N    | 04949E    | 22        |           | 1004.1       | 1005.1         | 33.1        |        | 15.3           |        | 0             | 0     |        |          |          |          |
| 40420 AL-AHSA                             | 2518N    | 04929E    | 179       |           | 986.2        | 1005.7         | 34.5        |        | 15.8           |        | 0             | 0     |        |          |          |          |
| <b>40430 AL-MADINAH</b>                   | 2433N    | 03942E    | 654       |           | 936.1        | 1003.6         | 35.6        | 1.2    | 7.7            | 2.4    | 0             | 0     | -1     |          | 96       |          |
| 40437 KING KHALED INT. AIRPORT            | 2456N    | 04643E    | 614       |           | 936.2        | 999.3          | 35.9        |        | 10.2           |        | 0             | 0     |        |          | 315      |          |
| <b>40438 RIYADH OBS. (O.A.P.)</b>         | 2442N    | 04644E    | 635       |           | 939.6        | 1006.2         | 35.1        | 3.2    | 9.0            | 2.1    | 0             | 0     | -1     |          | 273      |          |
| 40439 YENBO                               | 2408N    | 03804E    | 10        |           | 1004.7       | 1005.7         | 31.7        |        | 22.6           |        | 0             | 0     |        |          |          |          |
| <b>41024 JEDDAH (KING ABDUL AZIZ INT.</b> | 2142N    | 03911E    | 17        |           | 1005.0       | 1006.5         | 31.3        | .6     | 28.3           | -1.2   | 0             | 0     | -1     |          | 248      |          |
| 41030 MAKKAH                              | 2126N    | 03946E    | 240       |           | 979.1        | 1005.3         | 34.9        |        | 22.7           |        | 0             | T     |        |          |          |          |
| 41036 AL-TAIF                             | 2129N    | 04033E    | 1478      |           | 855.5        | 1506 Y         | 28.2        | .9     | 11.6           | 3.7    | 0             | T     | -6     | 2        | 294      |          |
| 41055 AL-BAHA                             | 2018N    | 04139E    | 1672      |           | 836.2        | 1504 Y         | 28.0        |        | 9.8            |        | 0             | T     |        |          | 269      |          |
| 41061 WADI AL-DAWASSER AIRPORT            | 2030N    | 04515E    | 629       |           | 938.1        |                | 33.4        |        | 10.9           |        | 0             | 0     |        |          | 320      |          |
| 41084 BISHA                               | 1959N    | 04238E    | 1167      |           | 885.3        | 1501 Y         | 31.1        |        | 8.7            |        | 0             | 0     |        |          | 301      |          |
| 41112 ABHA                                | 1814N    | 04239E    | 2093      |           | 795.3        | 1506 Y         | 23.2        |        | 9.1            |        | 1             | 1     |        |          | 281      |          |
| 41114 KHAMIS MUSHAIT                      | 1818N    | 04248E    | 2066      |           | 798.5        | 1483 Y         | 24.1        |        | 9.9            |        | 0             | T     |        |          | 300      |          |
| 41128 NAJRAN                              | 1737N    | 04425E    | 1214      |           | 878.8        | 1506 Y         | 30.1        |        | 5.7            |        | 0             | 0     |        |          | 265      |          |
| 41136 SHARORAH                            | 1728N    | 04706E    | 725       |           | 922.7        | 998.7          | 35.8        |        | 14.4           |        | 0             | 0     |        |          | 278      |          |
| 41140 GIZAN                               | 1653N    | 04235E    | 7         |           | 1005.2       | 1006.0         | 33.1        |        | 33.6           |        | 2             | 13    |        |          |          |          |



# SURFACE

# SEPTEMBER 2009

| STATION                              | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|--------------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                      |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>IRAN, ISLAMIC REPUBLIC OF</b>     |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 40706 TABRIZ                         | 3805N    | 04617E    | 1367      |           | 863.6        | 1009.5         | 20.0        | -1.1   | 10.3           | 1.7    | 6             | 27    | 18     |          | 246      | 81       |
| 40712 ORUMIEH                        | 3732N    | 04505E    | 1316      |           | 866.0        | 1009.8         | 17.6        | -1.4   | 12.1           | 1.8    | 5             | 31    | 28     |          | 265      | 90       |
| 40745 MASHHAD                        | 3616N    | 05938E    | 999       |           | 902.4        | 1011.7         | 21.6        | 1.8    | 10.9           | 2.6    | 2             | 21    | 20     |          | 306      | 101      |
| 40754 TEHRAN-MEHRABAD                | 3541N    | 05119E    | 1204      |           | 879.8        | 1006.6         | 24.7        | -7     | 9.9            | 2.3    | 5             | 13    | 12     |          | 271      | 90       |
| 40766 KERMANSHAH                     | 3416N    | 04707E    | 1322      |           | 867.6        | 1008.0         | 21.7        | -7     | 8.8            | 2.7    | 2             | 17    | 16     |          | 263      | 87       |
| 40800 ESFAHAN                        | 3228N    | 05140E    | 1550      |           | 843.3        | 1004.6         | 24.4        | .9     | 7.3            | .3     |               | 2     | 2      |          | 322      | 104      |
| 40841 KERMAN                         | 3015N    | 05658E    | 1754      |           | 824.4        | 1003.5         | 24.7        | 1.4    | 5.9            | .4     | 0             | 0     | -1     |          | 338      | 111      |
| 40848 SHIRAZ                         | 2932N    | 05232E    | 1481      |           | 850.0        | 1004.6         | 25.5        | 1.0    | 8.8            | 1.5    | 0             | 0     | 0      |          | 325      | 102      |
| <b>AFGHANISTAN, ISLAMIC STATE OF</b> |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 40938 HERAT                          | 3413N    | 06213E    | 964       |           |              |                | 23.1        | .2     |                |        |               |       |        |          |          |          |
| 40948 KABUL AIRPORT                  | 3433N    | 06913E    | 1791      |           |              |                | 21.8        | 2.1    |                |        | 0             | 0     | -1     |          |          |          |
| 40990 KANDAHAR AIRPORT               | 3130N    | 06551E    | 1010      |           |              |                | 26.7        | 3.2    |                |        | 0             | 0     | 0      |          |          |          |
| <b>BAHRAIN</b>                       |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 41150 BAHRAIN (INT. AIRPORT)         | 2616N    | 05039E    | 2         |           | 1005.5       | 1005.7         | 33.3        | .8     | 27.7           | -4.4   | 0             | 0     | 0      | 5        | 303      | 97       |
| <b>UNITED ARAB EMIRATES</b>          |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 41217 ABU DHABI INTER. AIRPORT       | 2426N    | 05439E    | 27        |           | 1002.3       | 1005.1         | 33.1        | .9     | 27.9           | .5     | 0             | 0     | -T     | 5        | 305      | 97       |
| <b>OMAN</b>                          |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 41256 SEEB, INT'L AIRPORT            | 2335N    | 05817E    | 15        |           | 1004.2       | 1005.2         | 31.7        |        | 32.3           |        | 0             | 0     |        | 0        | 96       |          |
| 41288 MASIRAH                        | 2040N    | 05854E    | 19        |           | 1005.9       | 1008.1         | 27.3        |        | 27.3           |        | 0             | 0     |        | 0        |          |          |
| 41314 THUMRAIT                       | 1740N    | 05401E    | 467       |           | 956.7        | 1009.9         | 30.1        |        | 15.0           |        | 0             | 0     |        | 0        |          |          |
| 41316 SALALAH                        | 1702N    | 05405E    | 23        |           | 1004.5       | 1007.3         | 26.3        |        | 26.3           |        | 0             | 0     |        | 0        | 93       |          |
| <b>PAKISTAN</b>                      |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 41515 DROSH                          | 3534N    | 07147E    | 1465      |           |              | 1466 Y         | 25.3        | -2     | 8.4            |        | 2             | 17    | -5     | 3        |          |          |
| 41530 PESHAWAR                       | 3401N    | 07135E    | 360       |           | 964.4        | 1003.8         | 29.5        | .6     | 24.9           |        | 2             | 19    | 2      | 3        |          |          |
| 41560 PARACHINAR                     | 3352N    | 07005E    | 1726      |           | 825.4        | 1471 Y         | 20.0        | -1.3   | 14.6           |        | 16            | 243   | 188    | 6        |          |          |
| 41571 ISLAMABAD AIRPORT              | 3337N    | 07306E    | 508       |           |              | 1004.4         | 28.8        | 1.8    | 23.6           |        | 4             | 48    | -50    | 1        |          |          |
| 41598 JHELUM                         | 3256N    | 07343E    | 234       |           | 977.9        | 1003.8         | 29.6        | .6     | 27.8           |        | 4             | 22    | -55    | 2        |          |          |
| 41600 SIALKOT                        | 3230N    | 07432E    | 256       |           | 975.8        | 1004.0         | 29.1        | 1.2    | 29.5           |        | 3             | 49    | -45    | 2        |          |          |
| 41620 ZHOB                           | 3121N    | 06928E    | 1407      |           | 855.2        | 1459 Y         | 27.5        | 1.6    | 9.9            |        | 2             | 8     | -2     | 3        |          |          |
| 41624 DERA ISMAIL KHAN               | 3149N    | 07055E    | 173       |           | 984.0        | 1003.2         | 30.7        | .5     | 28.1           |        | 1             | 32    | 15     | 4        |          |          |
| 41640 LAHORE CITY                    | 3133N    | 07420E    | 215       |           | 980.3        | 1004.0         | 30.5        | .8     | 27.2           |        | 3             | 20    | -41    | 1        |          |          |
| 41660 QUETTA AIRPORT                 | 3015N    | 06653E    | 1589      |           | 840.5        | 1489 Y         | 24.1        | 3.0    | 11.5           |        | 0             | 0     | -1     | 5        |          |          |
| 41675 MULTAN                         | 3012N    | 07126E    | 123       |           | 990.1        | 1004.3         | 31.3        | .3     | 28.6           |        | 2             | 5     | -5     | 3        |          |          |
| 41685 BARKHAN                        | 2953N    | 06943E    | 1098      |           |              | 1482 Y         | 28.8        | 1.8    | 15.3           |        | 0             | 0     | -43    | 1        |          |          |
| 41710 NOKKUNDI                       | 2849N    | 06245E    | 683       |           | 929.8        | 1002.4         | 32.6        | 2.6    | 6.2            |        | 0             | 0     | 0      | 5        |          |          |
| 41712 DAL BANDIN                     | 2853N    | 06424E    | 850       |           | 912.9        | 1480 Y         | 31.8        | 4.1    | 9.0            |        | 0             | 0     | -1     | 5        |          |          |

# SURFACE

# SEPTEMBER 2009

| STATION                           | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|-----------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                   |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 41715 JACOBABAD                   | 2818N    | 06828E    | 56        |           | 997.7        | 1003.7         | 32.0        | .6     | 30.2           |        | 0             | 0     | -11    | 4        |          |          |
| 41718 KHANPUR                     | 2839N    | 07041E    | 88        |           | 993.7        | 1003.4         | 30.6        | .5     | 28.8           |        | 1             | 2     | -13    | 4        |          |          |
| 41739 PANJGUR                     | 2658N    | 06406E    | 981       |           | 899.3        | 1477 Y         | 29.9        | 2.7    | 9.6            |        | 0             | 0     | -1     | 5        |          |          |
| 41744 KHUZDAR                     | 2750N    | 06638E    | 1232      |           | 872.5        | 1462 Y         | 28.9        | 1.9    | 10.4           |        | 2             | 7     | 1      | 4        |          |          |
| 41749 NAWABSHAH                   | 2615N    | 06822E    | 38        |           | 1000.5       | 1003.8         | 31.8        | .7     | 28.9           |        | 1             | 2     | -8     | 4        |          |          |
| 41756 JIWANI                      | 2504N    | 06148E    | 57        |           | 999.4        | 1005.8         | 28.7        | .8     | 31.0           |        | 0             | 0     | -1     | 5        |          |          |
| <b>41759 PASNI</b>                | 2516N    | 06329E    | 6         |           | 1005.9       | 1006.5         | 28.6        |        | 32.0           |        | 0             | 0     | -1     | 5        |          |          |
| 41768 CHHOR                       | 2531N    | 06947E    | 6         |           | 1004.6       | 1005.3         | 30.4        | .6     | 30.4           |        | 0             | 0     | -22    | 3        |          |          |
| 41780 KARACHI AIRPORT             | 2454N    | 06708E    | 22        |           | 1004.0       | 1006.7         | 29.4        | .5     | 30.7           |        | 1             | 69    | 50     | 5        |          |          |
| <b>INDIA</b>                      |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 42071 AMRITSAR                    | 3138N    | 07452E    | 234       |           | 978.3        | 1004.1         | 28.1        | -2     | 29.0           |        | 2             | 38    | -41    | 2        | 201      | 84       |
| 42147 MUKTESHWAR KUMAON           | 2928N    | 07939E    | 2311      |           |              |                | 15.4        | -.7    | 16.6           |        | 13            | 327   | 130    | 4        |          |          |
| <b>42165 BIKANER</b>              | 2800N    | 07318E    | 224       |           | 978.7        | 1003.2         | 32.4        | 1.7    | 19.7           |        | 2             | 12    | -22    | 2        |          |          |
| <b>42182 NEW DELHI/SAFDARJUNG</b> | 2835N    | 07712E    | 216       |           | 979.8        | 1003.8         | 29.5        | .0     | 28.8           |        | 7             | 191   | 78     | 5        | 206      | 94       |
| 42314 DIBRUGARH /MOHANBARI        | 2729N    | 09501E    | 111       |           | 992.9        | 1005.2         | 29.2        | 2.1    | 31.9           |        | 11            | 226   | -128   | 2        | 192      |          |
| 42339 JODHPUR                     | 2618N    | 07301E    | 224       |           | 980.2        | 1004.5         | 32.3        |        | 21.9           |        | 1             | 4     |        | 2        |          |          |
| 42404 DHUBRI                      | 2601N    | 08959E    | 36        |           | 1001.7       | 1005.7         | 29.3        |        | 34.1           |        | 10            | 169   |        | 1        |          |          |
| <b>42410 GUWAHATI</b>             | 2606N    | 09135E    | 54        |           |              | 1004.8         | 30.1        | 2.2    | 32.4           |        | 9             | 181   | -18    | 3        | 180      | 129      |
| 42452 KOTA AERODROME              | 2509N    | 07551E    | 274       |           | 974.0        | 1004.0         | 31.8        | 2.2    | 22.5           |        | 3             | 15    | -80    | 1        |          |          |
| 42475 ALLAHABAD/BAMHRAULI         | 2527N    | 08144E    | 98        |           | 990.9        | 1001.7         | 28.9        | .2     | 32.3           |        | 9             | 190   | -9     | 3        |          |          |
| <b>42515 CHERRAPUNJI</b>          | 2515N    | 09144E    | 1313      |           | 866.5        | 1478 Y         | 21.8        | 1.6    | 22.7           |        | 20            | 641   | -711   | 2        |          |          |
| 42619 SILCHAR                     | 2445N    | 09248E    | 29        |           | 1001.9       | 1005.1         | 29.3        |        | 34.9           |        | 14            | 263   |        | 2        |          |          |
| 42647 AHMADABAD                   | 2304N    | 07238E    | 55        |           | 1000.2       | 1006.4         | 30.1        | 1.0    | 28.5           |        | 2             | 22    | -61    | 2        | 272      | 124      |
| <b>42671 SAGAR</b>                | 2351N    | 07845E    | 551       |           | 943.9        | 1004.1         | 27.2        | .9     | 27.5           |        | 6             | 310   | 148    | 5        |          |          |
| <b>42731 DWARKA</b>               | 2222N    | 06905E    | 11        |           | 1006.2       | 1007.5         | 29.0        | .9     | 30.9           |        | 1             | 14    | -7     |          |          |          |
| 42754 INDORE                      | 2243N    | 07548E    | 567       |           | 942.9        | 1004.8         | 26.6        | .6     | 25.0           |        | 5             | 101   | -84    | 2        | 214      | 119      |
| 42807 CALCUTTA/ALIPORE            | 2232N    | 08820E    | 6         |           | 1003.2       | 1003.8         | 29.9        | .8     | 33.9           |        | 14            | 429   | 141    | 5        | 126      | 109      |
| 42867 NAGPUR SONEGAON             | 2106N    | 07903E    | 310       |           | 969.9        | 1004.1         | 28.7        | 1.0    | 30.0           |        | 9             | 102   | -55    | 2        | 233      | 128      |
| 42909 VERAVAL                     | 2054N    | 07022E    | 8         |           | 1006.6       | 1007.5         | 28.9        | 1.3    | 31.9           |        | 2             | 7     | -72    | 1        |          |          |
| 42933 AKOLA                       | 2042N    | 07702E    | 282       |           | 973.6        | 1004.8         | 29.1        | 1.1    | 27.7           |        | 6             | 60    | -47    | 2        |          |          |
| 42971 BHUBANESHWAR                | 2015N    | 08550E    | 46        |           | 998.4        | 1003.5         | 29.4        | .9     | 34.5           |        | 13            | 214   | -27    | 3        | 100      | 67       |
| <b>43041 JAGDALPUR</b>            | 1905N    | 08202E    | 553       |           | 944.5        | 1004.7         | 27.5        | 1.6    | 28.9           |        | 13            | 149   | -51    | 2        |          |          |
| 43057 BOMBAY / COLABA             | 1854N    | 07249E    | 11        |           | 1005.9       | 1007.1         | 28.5        | .8     | 33.7           |        | 14            | 519   | 212    | 5        | 120      | 73       |
| <b>43063 PUNE</b>                 | 1832N    | 07351E    | 559       |           | 945.5        | 1007.1         | 26.2        | 1.1    | 25.9           |        | 7             | 78    | -77    | 2        | 149      | 84       |
| <b>43128 HYDERABAD AIRPORT</b>    | 1727N    | 07828E    | 545       |           | 946.0        | 1005.4         | 27.2        | .6     | 25.7           |        | 9             | 146   | -6     | 3        | 167      | 100      |
| 43150 CWC VISHAKHAPATNAM/WALTAIR  | 1742N    | 08318E    | 66        |           | 996.7        | 1004.1         | 29.3        |        | 32.4           |        | 10            | 154   |        |          | 144      | 90       |
| 43185 MACHILIPATNAM/FRANCHPET     | 1612N    | 08109E    | 3         |           | 1004.1       | 1004.3         | 30.2        | 1.3    | 32.1           |        | 9             | 109   | -47    | 2        | 142      |          |
| 43192 GOA/PANJIM                  | 1529N    | 07349E    | 60        |           | 1001.5       | 1008.3         | 27.1        | .2     | 31.9           |        | 17            | 366   | 129    | 5        | 138      | 78       |
| 43198 BELGAUM/SAMBRE              | 1551N    | 07437E    | 758       |           | 925.7        | 1007.6         | 24.3        | .6     | 25.0           |        | 18            | 219   | 95     | 5        |          |          |
| <b>43279 CHENNAI/MINAMBAKKAM</b>  | 1300N    | 08011E    | 16        |           | 1004.5       | 1006.3         | 30.4        | .7     | 29.3           |        | 10            | 182   | 21     | 4        | 205      | 104      |
| 43284 BAJPE                       | 1255N    | 07453E    | 102       |           | 997.2        | 1008.7         | 26.4        |        | 30.3           |        | 15            | 400   |        |          | 109      | 70       |
| <b>43295 BANGALORE</b>            | 1258N    | 07735E    | 921       |           | 907.1        | 1485 Y         | 24.1        | .2     | 22.9           |        | 20            | 346   | 102    | 5        | 104      | 73       |
| 43314 KOZHICODE                   | 1115N    | 07547E    | 5         |           | 1009.0       | 1009.6         | 27.9        | 1.1    | 31.5           |        | 19            | 385   | 147    | 4        |          |          |
| <b>43333 PORT BLAIRE</b>          | 1140N    | 09243E    | 79        |           | 999.5        | 1008.4         | 27.3        | 1.5    | 31.3           |        | 24            | 416   | 13     | 3        | 87       | 70       |
| <b>43363 PAMBAN</b>               | 0916N    | 07918E    | 11        |           | 1006.2       | 1007.4         | 30.2        | .9     | 33.4           |        | 0             | 0     | -29    | 1        |          |          |

# SURFACE

# SEPTEMBER 2009

| STATION                    | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|----------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                            |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>43369 MINICOY</b>       | 0818N    | 07309E    | 2         |           | 1009.8       | 1010.0         | 28.7        | 1.1    | 31.8           |        | 12            | 95    | -89    | 1        | 222      | 116      |
| 43371 THIRUVANANTHAPURAM   | 0829N    | 07657E    | 64        |           | 1002.6       | 1009.8         | 27.5        | .6     | 29.9           |        | 13            | 204   | 25     | 4        | 139      | 80       |
| <b>SRI LANKA</b>           |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 43424 PUTTALAM             | 0802N    | 07950E    | 2         |           | 1008.0       | 1008.3         | 28.7        | .2     | 31.5           | 2.5    | 5             | 8     | -56    |          |          |          |
| 43441 KURUNEGALA           | 0728N    | 08022E    | 116       |           | 996.1        | 1008.9         | 27.3        | -.2    | 28.3           | .8     | 13            | 180   | 21     |          |          |          |
| 43466 COLOMBO              | 0654N    | 07952E    | 7         |           | 1008.5       | 1009.7         | 28.0        | .5     | 30.6           | 1.3    | 17            | 172   | -64    |          | 236      | 125      |
| <b>43473 NUWARA ELIYA</b>  | 0658N    | 08046E    | 1880      |           | 812.7        |                | 16.3        | .6     | 16.5           | 1.4    | 19            | 121   | -55    |          |          |          |
| <b>43497 HAMBANTOTA</b>    | 0607N    | 08108E    | 20        |           | 1007.1       | 1008.9         | 27.2        | .0     | 31.4           | 2.9    | 12            | 75    | 4      |          |          |          |
| <b>MONGOLIA</b>            |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 44203 RINCHINHUMBE         | 5107N    | 09940E    | 1583      |           | 840.2        | 1017.4         | 5.0         | .4     | 5.4            | .0     | 5             | 17    | -13    | 1        |          |          |
| 44207 HATGAL               | 5026N    | 10000E    | 1669      |           | 831.6        | 1017.5         | 5.2         | .9     | 5.6            | .4     | 7             | 46    | 10     | 5        |          |          |
| <b>44212 ULAANGOM</b>      | 4948N    | 09205E    | 940       |           | 909.5        | 1018.2         | 9.5         | -.5    | 6.1            | -1.2   | 3             | 21    | 8      | 4        | 178      | 71       |
| 44213 BARUUNTURUUN         | 4939N    | 09424E    | 1232      |           | 877.8        | 1017.2         | 8.9         | .0     | 6.0            | -1.1   | 5             | 23    | -1     | 3        |          |          |
| 44214 ULGI                 | 4856N    | 08956E    | 1716      |           | 827.8        | 1015.5         | 9.0         | .4     | 4.4            | -2.2   | 2             | 11    | -1     | 4        |          |          |
| 44215 OMNO-GOBI            | 4901N    | 09143E    | 1590      |           | 840.9        | 1016.6         | 8.2         | .3     | 5.4            | -1.0   | 2             | 15    | 3      | 4        |          |          |
| <b>44218 HOVD</b>          | 4801N    | 09134E    | 1406      |           | 859.7        | 1015.9         | 10.5        | -.1    | 4.7            | -2.2   | 2             | 4     | -6     | 2        | 114      | 42       |
| 44225 TOSONTSENGEL         | 4844N    | 09812E    | 1724      |           | 827.7        | 1018.4         | 6.5         | .9     | 5.2            | -.5    | 2             | 5     | -11    | 1        |          |          |
| 44230 TARIALAN             | 4934N    | 10200E    | 1236      |           | 878.4        | 1017.8         | 8.7         | .8     | 6.3            | -.4    | 3             | 21    | -4     | 3        |          |          |
| <b>44231 MUREN</b>         | 4938N    | 10010E    | 1285      |           | 871.3        | 1016.1         | 9.3         | 1.4    | 5.4            | -.8    | 3             | 18    | 1      | 4        | 232      | 93       |
| 44232 HUTAG                | 4923N    | 10240E    | 938       |           | 907.8        | 1016.8         | 9.4         | .6     | 7.7            | .1     | 3             | 14    | -21    | 1        |          |          |
| 44237 ERDENEMANDAL         | 4823N    | 10120E    | 1510      |           | 847.7        | 1015.3         | 8.4         | 1.2    | 6.1            | -.9    | 1             | 11    | -10    | 2        |          |          |
| <b>44239 BULGAN</b>        | 4848N    | 10330E    | 1209      |           | 877.7        | 1015.6         | 9.7         | 2.5    | 4.9            | -1.8   | 1             | 4     | -28    | 1        |          |          |
| 44241 BARUUNHARAA          | 4855N    | 10600E    | 811       |           | 923.2        | 1016.5         | 10.3        | 1.2    | 6.0            | -1.6   | 6             | 34    | 0      | 3        |          |          |
| 44256 DASHBALBAR           | 4933N    | 11420E    | 706       |           | 929.0        | 1011.2         | 9.4         | .4     | 8.6            | .9     | 5             | 39    | 7      | 3        |          |          |
| <b>44259 CHOIBALSAN</b>    | 4805N    | 11430E    | 747       |           | 926.1        | 1012.4         | 11.0        | .4     | 6.8            | -1.0   | 7             | 41    | 14     | 5        |          |          |
| 44265 BAITAG               | 4607N    | 09128E    | 1186      |           | 883.0        | 1015.6         | 13.3        | 1.3    | 7.0            | -.1    |               | 3     | -4     | 3        |          |          |
| <b>44272 ULIATAI</b>       | 4745N    | 09651E    | 1761      |           | 822.2        | 1013.5         | 8.2         | 1.2    | 6.5            | .8     | 2             | 8     | -13    | 1        | 257      | 97       |
| 44275 BAYANBULAG           | 4650N    | 09805E    | 2255      |           | 775.1        | 1015.7         | 5.2         | .7     | 5.8            | .2     | 0             | T     | -12    | 1        |          |          |
| 44277 ALTAI                | 4624N    | 09615E    | 2182      |           | 783.0        | 1015.2         | 7.7         | 1.4    | 3.8            | -1.3   | 3             | 8     | -8     | 2        |          |          |
| 44282 TSETSERLEG           | 4727N    | 10120E    | 1693      |           | 829.4        | 1014.0         | 9.5         | 2.0    | 4.2            | -1.6   | 1             | 2     | -24    | 1        | 152      | 60       |
| 44284 GALUUT               | 4642N    | 10000E    | 2126      |           | 787.8        | 1018.3         | 6.9         | 1.9    | 3.6            | -1.3   | 1             | 2     | -16    | 1        |          |          |
| 44285 HUIJIRT              | 4654N    | 10240E    | 1662      |           | 832.7        | 1015.3         | 9.3         | 2.4    | 6.2            | -.2    | 01            | 1     | -24    | 1        |          |          |
| 44287 BAYANHONGOR          | 4608N    | 10040E    | 1860      |           | 813.3        | 1013.3         | 9.8         | 1.6    | 3.6            | -2.5   | 0             | 0     | -18    | 1        |          |          |
| <b>44288 ARVAIHEER</b>     | 4616N    | 10240E    | 1813      |           | 817.6        | 1013.5         | 10.5        | 2.1    | 4.6            | -1.3   | 1             | 2     | -17    | 1        |          |          |
| 44292 ULAANBAATAR          | 4755N    | 10650E    | 1307      |           | 868.8        | 1015.2         | 10.1        | 2.8    | 5.6            | -.9    | 3             | 14    | -12    | 2        | 253      | 103      |
| 44294 MAANTI               | 4718N    | 10720E    | 1430      |           | 855.7        | 1015.8         | 8.3         | 1.1    | 5.8            | -.9    | 2             | 4     | -19    | 1        |          |          |
| 44298 CHOIR                | 4627N    | 10810E    | 1287      |           | 869.8        | 1013.2         | 11.4        | 1.5    | 7.6            | -.1    | 1             | 5     | -14    | 2        |          |          |
| 44302 BAYAN-OVOO           | 4747N    | 11200E    | 926       |           | 910.2        | 1015.5         | 10.4        | .7     | 6.0            | -1.1   | 2             | 10    | -19    | 1        |          |          |
| 44304 UNDERKHAAN           | 4719N    | 11030E    | 1035      |           | 895.7        | 1013.0         | 10.3        | .9     | 5.8            | -1.1   | 2             | 10    | -13    | 2        |          |          |
| 44305 BARUUN-URT           | 4641N    | 11310E    | 982       |           | 901.3        | 1012.7         | 12.0        | 1.2    | 5.5            | -2.2   | 1             | 6     | -15    | 1        |          |          |
| 44313 KHALKH-GOL           | 4737N    | 11830E    | 689       |           | 932.7        | 1012.7         | 10.7        | .4     | 8.7            | .7     | 3             | 22    | -9     | 3        |          |          |
| 44314 MATAD                | 4710N    | 11530E    | 907       |           | 910.1        | 1014.0         | 10.8        | .0     | 6.6            | -.9    | 6             | 18    | -5     | 2        |          |          |
| <b>44317 ERDENETSAGAAN</b> | 4554N    | 11520E    | 1076      |           | 892.1        | 1013.6         | 11.3        |        | 7.2            |        | 2             | 33    |        | 3        |          |          |

# SURFACE

# SEPTEMBER 2009

| STATION                  | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|--------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                          |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 44336 SAIKHAN-OVOO       | 4527N    | 10350E    | 1317      |           | 868.2        | 1015.2         | 13.0        | 1.6    | 4.2            | -2.2   | 0             | 0     | -11    | 1        |          |          |
| <b>44341 MANDALGOBI</b>  | 4546N    | 10610E    | 1396      |           | 859.5        | 1014.5         | 11.8        | 1.6    | 4.4            | -2.3   | 0             | T     | -15    | 1        |          |          |
| 44347 TSOGT-OVOO         | 4425N    | 10510E    | 1298      |           | 869.9        | 1013.2         | 14.1        | 1.2    | 6.9            | -4     | 0             | T     | -12    | 1        |          |          |
| 44352 BAYANDELGER        | 4544N    | 11220E    | 1101      |           | 889.0        | 1012.2         | 12.5        | 1.2    | 5.9            | -1.9   | 2             | 6     | -15    | 1        |          |          |
| 44354 SAINSHAND          | 4454N    | 11000E    | 938       |           | 907.1        | 1010.0         | 15.0        | 1.4    | 7.0            | -1.2   | 1             | 19    | 9      | 5        |          |          |
| 44358 ZAMYN-UUD          | 4344N    | 11150E    | 965       |           | 904.6        | 1013.2         | 15.1        | 1.6    | 6.2            | -2.0   | 2             | 11    | -3     | 2        |          |          |
| <b>44373 DALANZADGAD</b> | 4335N    | 10420E    | 1465      |           | 853.1        | 1012.7         | 14.6        | 1.5    | 3.6            | -3.0   | 0             | T     | -13    | 1        | 252      | 85       |
| <b>NEPAL</b>             |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 44454 KATHMANDU AIRPORT  | 2742N    | 08522E    | 1337      |           | 863.1        | 1471 Y         | 24.1        |        | 23.7           |        | 12            | 113   |        |          | 178      | 110      |
| 44477 DHANKUTA           | 2659N    | 08721E    | 1210      |           | 878.2        | 1497 Y         | 24.4        |        | 24.6           |        | 5             | 34    |        |          | 197      | 95       |
| <b>HONG KONG, CHINA</b>  |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 45004 KOWLOON            | 2219N    | 11410E    | 66        |           | 999.9        | 1007.4         | 28.6        | .8     | 30.1           | 1.9    | 12            | 501   | 196    | 5        | 181      | 100      |
| <b>MACAO, CHINA</b>      |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 45011 TAIPA GRANDE       | 2210N    | 11330E    | 114       |           | 994.4        | 1007.3         | 28.1        |        | 25.8           |        | 9             | 188   |        | 3        | 180      | 100      |
| <b>DPR KOREA</b>         |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 47014 CHUNGGANG          | 4147N    | 12650E    | 331       |           | 976.9        | 1015.2         | 15.2        | .9     | 12.4           |        | 6             | 43    | -34    | 1        | 163      | 110      |
| 47016 HYESAN             | 4124N    | 12810E    | 715       |           | 934.4        | 1018.8         | 13.4        | .7     | 10.8           |        | 7             | 23    | -40    | 1        | 168      | 90       |
| 47025 KIMCHAEK           | 4040N    | 12910E    | 23        |           | 1011.9       | 1014.7         | 18.2        | .4     | 16.3           |        | 2             | 58    | -25    | 1        | 238      | 115      |
| 47035 SINUIJU            | 4006N    | 12420E    | 7         |           | 1013.9       | 1014.7         | 19.4        | 1.0    | 16.8           |        | 5             | 21    | -87    | 2        | 168      | 75       |
| 47055 WONSAN             | 3911N    | 12720E    | 36        |           | 1010.0       | 1014.7         | 19.2        | .5     | 17.1           |        | 4             | 38    | -164   | 2        | 193      | 100      |
| 47058 PYONGYANG          | 3902N    | 12540E    | 36        |           | 1010.8       | 1015.3         | 20.3        | 1.6    | 17.9           |        | 3             | 19    | -90    | 1        | 209      | 95       |
| 47069 HAEJU              | 3802N    | 12540E    | 81        |           | 1004.4       | 1013.4         | 21.2        | 1.5    | 18.6           |        | 3             | 23    | -90    | 1        | 212      | 100      |
| <b>REPUBLIC OF KOREA</b> |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 47101 CHUNCHEON          | 3754N    | 12740E    | 78        |           | 1005.4       | 1014.4         | 19.6        | .9     | 16.9           | .1     | 3             | 23    | -139   | 1        | 201      | 115      |
| 47105 GANGNEUNG          | 3745N    | 12850E    | 26        |           | 1011.3       | 1014.4         | 20.2        | .5     | 16.8           | -9     | 6             | 50    | -166   | 1        | 162      | 105      |
| 47108 SEOUL              | 3734N    | 12650E    | 86        |           | 1003.8       | 1013.6         | 21.8        | 1.2    | 16.3           | -1.3   | 5             | 65    | -103   | 2        | 202      | 113      |
| 47115 ULLEUNGDO          | 3729N    | 13050E    | 221       |           | 988.6        | 1014.0         | 19.6        | .0     | 17.4           | -1.0   | 7             | 137   | 2      | 3        | 148      | 96       |
| 47133 DAEJEON            | 3622N    | 12720E    | 72        |           | 1006.0       | 1013.2         | 21.4        | 1.2    | 17.0           | -1.7   | 5             | 46    | -108   | 2        | 198      | 109      |
| 47138 POHANG             | 3602N    | 12920E    | 4         |           | 1014.0       | 1014.2         | 22.0        | 1.1    | 20.0           | .9     | 5             | 76    | -78    | 2        | 162      | 106      |
| 47159 BUSAN              | 3506N    | 12900E    | 70        |           | 1005.5       | 1013.4         | 22.7        | .8     | 18.6           | -1.3   | 2             | 20    | -166   | 1        | 157      | 93       |
| 47165 MOKPO              | 3449N    | 12620E    | 39        |           | 1009.1       | 1013.4         | 21.9        | -1     | 20.8           | .2     | 7             | 46    | -84    | 2        | 200      | 108      |
| 47168 YEOSU              | 3444N    | 12740E    | 67        |           | 1005.7       | 1014.1         | 22.5        | .4     | 18.9           | -8     | 5             | 41    | -111   | 1        | 181      | 95       |
| 47184 JEJU               | 3331N    | 12630E    | 23        |           | 1010.9       | 1013.2         | 22.9        | .2     | 19.7           | -1.8   | 7             | 113   | -66    | 3        | 149      | 87       |
| <b>JAPAN</b>             |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 47401 WAKKANAI           | 4525N    | 14140E    | 12        |           | 1011.1       | 1012.5         | 16.9        | .5     | 14.6           | .6     | 10            | 45    | -80    | 1        | 217      | 121      |
| 47407 ASAHIKAWA          | 4345N    | 14220E    | 140       |           | 996.9        | 1013.5         | 15.2        | -1     | 13.5           | -4     | 13            | 112   | -19    | 3        | 162      | 108      |

# SURFACE

# SEPTEMBER 2009

| STATION               | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|-----------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                       |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 47409 ABASHIRI        | 4401N    | 14410E    | 44        |           | 1008.2       | 1013.3         | 16.3        | .6     | 13.5           | -.7    | 14            | 121   | 24     | 4        | 187      | 112      |
| 47412 SAPPORO         | 4304N    | 14120E    | 26        |           | 1010.2       | 1013.3         | 17.8        | .6     | 13.6           | -1.1   | 7             | 36    | -101   | 1        | 183      | 110      |
| 47418 KUSHIRO         | 4259N    | 14420E    | 40        |           | 1008.8       | 1013.6         | 15.8        | .6     | 14.7           | -.1    | 11            | 219   | 84     | 5        | 180      | 119      |
| 47420 NEMURO          | 4320N    | 14530E    | 39        |           | 1009.1       | 1013.8         | 15.5        | .2     | 14.0           | -.9    | 8             | 145   | 5      | 3        | 185      | 123      |
| 47421 SUTTSU          | 4248N    | 14010E    | 38        |           | 1009.3       | 1013.4         | 17.3        | -.1    | 15.2           | -.5    | 13            | 63    | -85    | 1        | 184      | 110      |
| 47426 URAKAWA         | 4210N    | 14240E    | 37        |           | 1009.2       | 1013.7         | 16.4        | -.5    | 16.3           | .4     | 9             | 184   | 49     | 4        | 176      | 101      |
| 47430 HAKODATE        | 4149N    | 14040E    | 44        |           | 1008.3       | 1013.5         | 17.7        | .2     | 14.6           | -1.4   | 13            | 59    | -116   | 1        | 194      | 123      |
| 47570 WAKAMATSU       | 3729N    | 13950E    | 217       |           | 988.7        | 1013.8         | 19.2        | -.5    | 16.5           | -2.0   | 5             | 17    | -113   | 0        | 155      | 124      |
| 47575 AOMORI          | 4049N    | 14040E    | 4         |           | 1013.0       | 1013.5         | 18.4        | .0     | 15.9           | -.8    | 9             | 109   | -18    | 3        | 172      | 106      |
| 47582 AKITA           | 3943N    | 14000E    | 22        |           | 1010.9       | 1013.4         | 19.5        | -.1    | 16.7           | -1.1   | 9             | 73    | -108   | 1        | 170      | 105      |
| 47590 SENDAI          | 3816N    | 14050E    | 44        |           | 1008.8       | 1014.0         | 19.9        | -.2    | 17.0           | -1.8   | 4             | 12    | -174   | 0        | 135      | 113      |
| 47600 WAJIMA          | 3724N    | 13650E    | 15        |           | 1011.9       | 1013.6         | 20.8        | -.2    | 18.7           | -1.4   | 8             | 40    | -219   | 1        | 154      | 108      |
| 47605 KANAZAWA        | 3635N    | 13630E    | 34        |           | 1009.4       | 1013.4         | 22.1        | .0     | 18.3           | -2.3   | 6             | 70    | -177   | 1        | 180      | 130      |
| 47624 MAEBASHI        | 3624N    | 13900E    | 114       |           | 1000.2       | 1013.4         | 22.0        | .5     | 16.4           | -3.5   | 5             | 21    | -162   | 0        | 162      | 145      |
| 47636 NAGOYA          | 3510N    | 13650E    | 56        |           | 1005.9       | 1012.4         | 24.1        | 1.0    | 18.1           | -3.3   | 5             | 52    | -159   | 0        | 183      | 133      |
| 47648 CHOSHI          | 3544N    | 14050E    | 28        |           | 1009.9       | 1013.2         | 21.7        | -1.0   | 20.9           | -2.0   | 6             | 38    | -148   | 0        | 134      | 95       |
| 47655 OMAEZAKI        | 3436N    | 13810E    | 47        |           | 1006.8       | 1012.3         | 23.5        | -.1    | 21.1           | -2.5   | 6             | 82    | -129   | 1        | 193      | 116      |
| 47662 TOKYO           | 3541N    | 13940E    | 36        |           | 1009.0       | 1013.2         | 23.0        | -.2    | 17.7           | -3.1   | 4             | 53    | -126   | 0        | 137      | 125      |
| 47675 OSHIMA          | 3445N    | 13920E    | 80        |           | 1003.5       | 1012.7         | 22.0        | .4     | 20.2           | -2.5   | 12            | 102   | -227   | 1        | 152      | 132      |
| 47678 HACHIJUJIMA     | 3307N    | 13940E    | 156       |           | 993.3        | 1011.1         | 23.0        | -1.8   | 24.7           | -1.1   | 14            | 182   | -162   | 1        | 132      | 89       |
| 47740 SAIGO           | 3612N    | 13320E    | 32        |           | 1010.0       | 1013.7         | 21.4        | -.1    | 19.1           | -1.7   | 5             | 51    | -154   | 1        | 157      | 96       |
| 47741 MATSUE          | 3527N    | 13300E    | 23        |           | 1010.8       | 1013.4         | 22.0        | .0     | 20.3           | -1.4   | 8             | 57    | -159   | 0        | 166      | 108      |
| 47746 TOTTORI         | 3529N    | 13410E    | 16        |           | 1011.6       | 1013.5         | 21.9        | -.1    | 19.5           | -1.6   | 7             | 71    | -175   | 1        | 179      | 125      |
| 47750 MAIZURU         | 3527N    | 13510E    | 23        |           | 1010.8       | 1013.5         | 22.1        | -.1    | 20.9           | -.5    | 8             | 141   | -83    | 2        | 160      | 127      |
| 47772 OSAKA           | 3441N    | 13530E    | 83        |           | 1002.9       | 1012.4         | 24.5        | .3     | 18.4           | -2.6   | 6             | 51    | -120   | 1        | 196      | 129      |
| 47778 SHIONOMISAKI    | 3327N    | 13540E    | 76        |           | 1003.1       | 1011.7         | 23.9        | .0     | 21.6           | -2.5   | 6             | 261   | -45    | 3        | 204      | 123      |
| 47800 IZUHARA         | 3412N    | 12910E    | 19        |           | 1012.2       | 1013.2         | 23.1        | .6     | 22.3           | .6     | 7             | 92    | -159   | 2        | 111      | 87       |
| 47807 FUKUOKA         | 3335N    | 13020E    | 15        |           | 1010.6       | 1012.3         | 24.4        | .7     | 20.8           | -1.5   | 7             | 84    | -91    | 1        | 204      | 128      |
| 47815 OITA            | 3314N    | 13130E    | 13        |           | 1010.7       | 1012.3         | 24.2        | 1.0    | 20.0           | -2.5   | 4             | 44    | -183   | 0        | 192      | 131      |
| 47817 NAGASAKI        | 3244N    | 12950E    | 36        |           | 1007.6       | 1011.7         | 25.1        | .8     | 21.0           | -2.0   | 6             | 51    | -139   | 1        | 217      | 127      |
| 47827 KAGOSHIMA       | 3133N    | 13030E    | 32        |           | 1007.5       | 1011.1         | 26.9        | 1.8    | 22.2           | -2.1   | 4             | 36    | -180   | 1        | 209      | 125      |
| 47830 MIYAZAKI        | 3156N    | 13120E    | 15        |           | 1009.9       | 1011.7         | 24.5        | .4     | 23.4           | -1.3   | 12            | 206   | -122   | 2        | 193      | 121      |
| 47843 FUKUE           | 3242N    | 12850E    | 27        |           | 1009.0       | 1012.1         | 24.0        | .6     | 22.2           | -.9    | 7             | 92    | -147   | 1        | 194      | 118      |
| 47887 MATSUYAMA       | 3351N    | 13240E    | 34        |           | 1008.2       | 1012.1         | 24.3        | .8     | 18.9           | -2.5   | 3             | 82    | -70    | 2        | 200      | 124      |
| 47891 TAKAMATSU       | 3419N    | 13400E    | 14        |           | 1011.0       | 1012.6         | 24.3        | 1.2    | 20.1           | -2.2   | 3             | 29    | -165   | 0        | 194      | 120      |
| 47909 NAZE            | 2823N    | 12930E    | 8         |           | 1009.0       | 1009.9         | 27.4        | .8     | 27.0           | -.4    | 13            | 136   | -162   | 1        | 143      | 92       |
| 47918 ISHIGAKIJIMA    | 2420N    | 12410E    | 11        |           | 1006.8       | 1008.5         | 29.4        | 1.7    | 29.2           | -.1    | 9             | 44    | -185   | 1        | 213      | 104      |
| 47927 MIYAKOJIMA      | 2448N    | 12510E    | 42        |           | 1004.0       | 1008.7         | 28.8        | 1.7    | 29.5           | .5     | 6             | 48    | -151   | 1        | 227      | 111      |
| 47936 NAHA            | 2612N    | 12740E    | 28        |           | 1003.3       | 1008.9         | 29.0        | 1.8    | 27.8           | -.7    | 7             | 23    | -145   | 0        | 219      | 106      |
| 47945 MINAMIDAITOJIMA | 2550N    | 13110E    | 21        |           | 1006.0       | 1008.3         | 28.2        | 1.0    | 29.3           | .1     | 12            | 105   | -15    | 3        | 245      | 108      |
| 47971 CHICHUJIMA      | 2706N    | 14210E    | 8         |           | 1007.8       | 1008.7         | 27.5        | .2     | 31.4           | 1.8    | 8             | 189   | 79     | 5        | 190      | 85       |
| 47991 MINAMITORISHIMA | 2417N    | 15350E    | 9         |           | 1011.5       | 1012.5         | 28.0        | .0     | 31.6           | 1.8    | 14            | 197   | 79     |          | 207      | 81       |
| <b>THAILAND</b>       |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 48327 CHIANG MAI      | 1847N    | 09859E    | 314       |           | 972.5        | 1007.6         | 28.0        | 1.5    | 29.1           | 1.1    | 11            | 192   | -36    | 2        | 179      | 102      |
| 48354 UDON THANI      | 1723N    | 10240E    | 178       |           | 986.1        | 1006.2         | 28.1        | .9     | 30.3           | .9     | 14            | 371   | 117    | 5        |          |          |

# SURFACE

# SEPTEMBER 2009

| STATION                         | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|---------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                 |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 48378 PHITSANULOK               | 1647N    | 10010E    | 46        |           | 1001.8       | 1007.0         | 28.6        | .8     | 31.8           | 1.6    | 12            | 312   | 71     | 4        | 182      | 110      |
| <b>48400 NAKHON SAWAN</b>       | 1548N    | 10010E    | 35        |           | 1002.9       | 1006.9         | 28.6        | .7     | 32.4           | 1.6    | 14            | 297   | 65     | 4        | 178      | 107      |
| 48431 NAKHON RATCHASIMA         | 1458N    | 10200E    | 187       |           | 985.6        | 1006.6         | 27.8        | .9     | 31.5           | 2.7    | 14            | 208   | -36    | 2        |          |          |
| 48455 BANGKOK                   | 1344N    | 10030E    | 4         |           | 1007.2       | 1007.7         | 28.8        | 1.0    | 31.2           | .7     | 20            | 352   | 8      | 3        | 152      | 99       |
| <b>48462 ARANYAPRATHET</b>      | 1342N    | 10230E    | 49        |           | 1002.1       | 1007.7         | 27.9        | .7     | 30.7           | .5     | 17            | 173   | -103   | 1        |          |          |
| 48480 CHANTHA BURI              | 1237N    | 10200E    | 4         |           | 1007.5       | 1007.9         | 27.3        | .6     | 31.2           | .8     | 23            | 689   | 214    | 5        | 83       | 65       |
| <b>48500 PRACHUAP KHIRIKHAN</b> | 1150N    | 09950E    | 5         |           | 1007.5       | 1008.2         | 28.0        | .5     | 29.4           | .5     | 10            | 95    | -1     | 4        |          |          |
| 48517 CHUMPHON                  | 1029N    | 09911E    | 6         |           | 1008.4       | 1009.1         | 27.0        | .1     | 29.8           | .3     | 17            | 230   | 72     | 5        |          |          |
| <b>48568 SONGKHLA</b>           | 0712N    | 10030E    | 7         |           | 1008.5       | 1009.2         | 28.5        | .6     | 28.7           | -2     | 9             | 63    | -67    | 1        | 178      | 95       |
| <b>VIET NAM</b>                 |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 48806 SON LA                    | 2120N    | 10350E    | 676       |           | 933.1        | 1008.2         | 25.0        |        | 25.3           |        | 9             | 99    |        | 2        | 247      | 135      |
| 48808 CAO BANG                  | 2240N    | 10610E    | 244       |           | 980.2        | 1007.7         | 26.6        |        | 28.4           |        | 5             | 82    |        | 1        | 187      | 110      |
| 48820 HA NOI                    | 2102N    | 10540E    | 6         |           | 1005.9       | 1006.7         | 29.1        |        | 29.9           |        | 9             | 155   |        | 1        | 132      | 75       |
| 48826 PHU LIEN                  | 2048N    | 10630E    | 116       |           | 993.8        | 1007.1         | 27.5        |        | 32.6           |        | 12            | 304   |        | 4        | 162      | 85       |
| 48830 LANG SON                  | 2150N    | 10640E    | 263       |           | 977.5        | 1007.2         | 26.4        |        | 28.2           |        | 11            | 133   |        | 3        | 190      | 105      |
| 48840 THANH HOA                 | 1945N    | 10540E    | 5         |           | 1005.5       | 1006.1         | 27.8        |        | 30.9           |        | 13            | 503   |        | 4        | 137      | 80       |
| 48845 VINH                      | 1840N    | 10540E    | 6         |           | 1005.5       | 1006.2         | 28.3        |        | 31.2           |        | 15            | 374   |        | 2        | 136      | 80       |
| 48848 DONG HOI                  | 1729N    | 10630E    | 8         |           | 1005.1       | 1005.9         | 27.7        |        | 31.5           |        | 18            | 911   |        | 6        | 157      | 110      |
| 48852 HUE                       | 1626N    | 10730E    | 10        |           | 1004.6       | 1005.6         | 26.9        |        | 30.9           |        | 17            | 1299  |        |          | 140      | 75       |
| <b>48855 DA NANG</b>            | 1604N    | 10820E    | 7         |           | 1004.4       | 1005.2         | 27.5        |        | 30.5           |        | 20            | 1376  |        | 5        | 135      | 75       |
| 48870 QUY NHON                  | 1346N    | 10910E    | 6         |           | 1003.9       | 1004.6         | 28.4        |        | 29.9           |        | 14            | 363   |        | 4        | 165      | 80       |
| 48877 NHA TRANG                 | 1213N    | 10910E    | 4         |           | 1004.9       | 1005.4         | 28.2        |        | 30.8           |        | 14            | 208   |        |          | 167      | 80       |
| 48887 PHAN THIET                | 1056N    | 10800E    | 8         |           | 1006.8       | 1007.4         | 27.2        |        | 30.3           |        | 17            | 168   |        | 2        | 166      |          |
| 48914 CA MAU                    | 0911N    | 10500E    | 2         |           | 1008.3       | 1008.5         | 27.0        |        | 31.0           |        | 20            | 496   |        | 5        | 90       | 55       |
| 48917 PHU QUOC                  | 1013N    | 10350E    | 4         |           | 1007.4       | 1008.0         | 27.2        |        | 31.7           |        | 25            | 600   |        |          | 50       |          |
| <b>LAO PDR</b>                  |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 48930 LUANG-PRABANG             | 1953N    | 10200E    | 305       |           | 973.1        | 1007.5         | 27.0        | .6     | 29.6           | .4     | 12            | 148   | -24    | 4        | 138      | 77       |
| 48938 SAYABOURY                 | 1914N    | 10140E    | 326       |           | 973.6        | 1006.5         | 27.8        |        | 30.9           |        | 18            | 330   |        | 5        | 174      |          |
| 48940 VIENTIANE                 | 1757N    | 10230E    | 171       |           | 985.9        | 1005.1         | 27.9        | .9     | 30.3           | 1.4    | 16            | 231   | -64    | 2        | 197      | 144      |
| 48946 THAKHEK                   | 1723N    | 10430E    | 152       |           | 988.1        | 1005.3         | 27.8        |        | 30.6           |        | 13            | 218   |        |          | 133      |          |
| 48947 SAVANNAKHET               | 1633N    | 10430E    | 145       |           | 990.8        | 1007.3         | 27.0        | 1.0    | 29.6           | 1.9    | 15            | 180   | -33    | 2        | 136      |          |
| 48948 SENO                      | 1640N    | 10500E    | 185       |           | 986.4        | 1007.2         | 27.7        |        | 31.8           |        | 16            | 198   |        | 3        | 144      |          |
| 48955 PAKSE                     | 1507N    | 10510E    | 102       |           | 994.1        | 1005.8         | 27.4        | .1     | 30.0           | .6     | 20            | 458   | 161    | 5        | 108      | 68       |
| <b>CHINA</b>                    |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>50527 HAILAR</b>             | 4913N    | 11940E    | 611       |           | 939.7        | 1011.3         | 10.1        | .2     | 7.9            | -3     | 9             | 30    | -5     | 2        | 177      | 80       |
| <b>50745 QIQIHAR</b>            | 4723N    | 12350E    | 148       |           | 993.6        | 1011.3         | 14.8        | .8     | 10.3           | -4     | 6             | 45    | 1      | 3        | 257      | 104      |
| <b>51076 ALTAY</b>              | 4744N    | 08805E    | 737       |           | 931.7        | 1016.8         | 13.4        | -1.0   | 8.3            | 1.0    | 5             | 25    | 10     | 5        | 260      | 94       |
| 51431 YINING                    | 4357N    | 08120E    | 664       |           | 939.3        | 1015.5         | 16.3        | -5     | 11.2           | .8     | 5             | 27    | 12     | 5        | 239      | 90       |
| <b>51463 WU LU MU QI</b>        | 4348N    | 08739E    | 947       |           | 910.4        | 1015.7         | 16.8        |        | 8.6            |        | 4             | 35    |        | 4        | 291      | 110      |
| <b>51709 KASHI</b>              | 3928N    | 07559E    | 1291      |           | 870.3        | 1009.8         | 20.3        | .9     | 10.0           | -3     | 3             | 7     | 2      | 4        | 282      | 108      |
| <b>51777 RUOQIANG</b>           | 3902N    | 08810E    | 889       |           | 910.5        | 1009.0         | 20.3        | .3     | 10.0           | 2.2    | 0             | T     | -1     | 4        | 257      | 88       |

# SURFACE

# SEPTEMBER 2009

| STATION                            | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|------------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                    |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>51828 HOTAN</b>                 | 3708N    | 07956E    | 1375      |           | 860.9        | 1008.1         | 21.4        | 1.7    | 10.3           | .6     | 1             | 9     | 7      | 5        | 244      | 103      |
| <b>52203 HAMI</b>                  | 4249N    | 09331E    | 739       |           | 927.5        | 1010.8         | 18.5        | .0     | 9.0            | .9     | 0             | T     | -3     | 1        | 308      | 102      |
| <b>52533 JIUQUAN</b>               | 3946N    | 09829E    | 1478      |           | 852.2        | 1013.4         | 14.8        | .1     | 11.2           | 3.2    | 6             | 47    | 37     | 6        | 178      | 66       |
| <b>52836 DOULAN</b>                | 3618N    | 09806E    | 3190      |           | 693.4        |                | 11.3        | 2.1    | 7.3            | 2.4    | 7             | 28    | 12     | 6        | 225      | 90       |
| <b>53068 ERENHOT</b>               | 4339N    | 11200E    | 966       |           | 904.8        | 1013.4         | 15.6        | 2.1    | 6.1            | -1.0   | 2             | 23    | 5      | 4        | 260      | 92       |
| <b>53614 YINCHUAN</b>              | 3828N    | 10610E    | 1112      |           | 889.5        | 1012.5         | 17.4        | 1.4    | 12.3           | .4     | 4             | 18    | -5     | 2        | 202      | 84       |
| <b>53772 TAIYUAN</b>               | 3747N    | 11230E    | 779       |           | 927.0        | 1015.5         | 17.4        | 1.3    | 13.8           | .5     | 7             | 131   | 67     | 5        | 186      | 91       |
| 54292 YANJI                        | 4252N    | 12930E    | 178       |           | 984.0        | 1014.6         | 14.9        | .4     | 11.5           | -1.2   | 6             | 47    | -9     | 3        | 248      | 125      |
| <b>54342 SHENYANG</b>              | 4144N    | 12331E    | 43        |           | 1008.1       | 1014.0         | 17.0        | -.3    | 14.0           | .1     | 5             | 26    | -50    | 1        | 222      | 94       |
| <b>54511 BEIJING</b>               | 3956N    | 11610E    | 55        |           | 1009.9       | 1013.7         | 21.1        | 1.5    | 16.1           | .4     | 5             | 23    | -25    | 2        | 149      | 62       |
| <b>54857 QINGDAO</b>               | 3604N    | 12020E    | 77        |           | 1006.3       | 1015.1         | 22.0        | .5     | 19.6           | 1.3    | 3             | 20    | -70    | 1        | 203      | 92       |
| <b>55591 LHASA</b>                 | 2940N    | 09108E    | 3650      |           | 655.6        |                | 15.0        | 2.2    | 7.4            | -1.7   | 4             | 18    | -40    | 1        | 260      | 111      |
| <b>56137 QAMDO</b>                 | 3109N    | 09710E    | 3307      |           | 683.8        |                | 14.7        | 1.6    | 8.0            | -1.3   | 5             | 18    | -52    | 1        | 214      | 111      |
| <b>56571 XICHANG</b>               | 2754N    | 10210E    | 1599      |           | 838.8        |                | 22.5        | 2.8    | 16.4           | -.7    | 8             | 151   | -2     | 4        | 201      | 143      |
| <b>56739 TENGCHONG</b>             | 2507N    | 09829E    | 1649      |           | 833.3        |                | 20.6        | 1.6    | 17.8           | -1.2   | 13            | 207   | 48     | 3        | 195      | 150      |
| 56778 KUNMING                      | 2501N    | 10240E    | 1892      |           | 811.4        |                | 20.1        | 2.6    | 16.5           | -.1    | 5             | 28    | -93    | 0        | 162      | 117      |
| <b>56985 MENGZI</b>                | 2323N    | 10320E    | 1302      |           | 868.4        | 1007.6         | 23.1        |        | 18.4           |        | 6             | 48    |        | 2        | 142      | 95       |
| <b>57083 ZHENGZHOU</b>             | 3443N    | 11330E    | 111       |           | 1001.3       | 1014.4         | 21.0        | .3     | 19.0           | .9     | 11            | 80    | -9     | 4        | 106      | 59       |
| <b>57461 YICHANG</b>               | 3042N    | 11110E    | 134       |           | 997.4        | 1013.0         | 23.7        | .6     | 21.8           | .5     | 5             | 103   | -23    | 3        | 114      | 80       |
| <b>57745 ZHIJIANG</b>              | 2727N    | 10940E    | 273       |           | 979.8        | 1010.9         | 25.1        | 2.0    | 20.6           | -1.0   |               | 2     | -64    | 0        | 189      | 110      |
| <b>57993 GANZHOU</b>               | 2552N    | 11500E    | 138       |           | 993.5        | 1009.3         | 28.2        | 2.1    | 24.8           | .3     | 4             | 69    | -24    | 3        | 178      | 93       |
| <b>58362 SHANGHAI</b>              | 3124N    | 12120E    | 8         |           | 1012.1       | 1012.9         | 25.0        |        | 23.6           |        | 6             | 86    |        | 2        | 114      | 65       |
| <b>58606 NANCHANG</b>              | 2836N    | 11550E    | 50        |           | 1005.2       | 1010.7         | 26.9        | 2.2    | 24.8           | 1.1    | 2             | 23    | -52    | 2        | 209      | 108      |
| <b>59287 GUANGZHOU</b>             | 2310N    | 11320E    | 42        |           | 1003.1       | 1007.8         | 29.5        | 2.4    | 27.2           | -.8    | 7             | 39    | -133   | 0        | 176      | 95       |
| <b>59316 SHANTOU</b>               | 2324N    | 11640E    | 3         |           | 1007.6       | 1008.0         | 29.1        | 2.6    | 29.0           | .3     | 9             | 120   | -24    | 3        | 190      | 95       |
| <b>59431 NANNING</b>               | 2238N    | 10810E    | 126       |           | 993.9        | 1007.8         | 27.9        | 1.1    | 27.4           | .1     | 4             | 43    | -81    | 1        | 205      | 102      |
| <b>59758 HAIKOU</b>                | 2002N    | 11020E    | 24        |           | 998.6        | 1006.0         | 27.9        | 1.0    | 30.4           | .1     | 12            | 567   | 317    | 5        | 175      | 87       |
| <b>AFRICA</b>                      |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>MADEIRA</b>                     |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 08522 FUNCHAL                      | 3238N    | 01654W    | 58        |           | 1013.2       | 1019.9         | 22.9        | .6     | 18.1           | -1.6   | 2             | 21    | -16    | 4        | 188      | 94       |
| <b>SPAIN (CANARY ISLANDS)</b>      |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 60001 HIERRO/AEROPUERTO            | 2749N    | 01753W    | 32        |           | 1015.1       | 1018.8         | 24.3        |        | 20.7           |        | 2             | 14    |        | 6        | 208      | 105      |
| 60005 LA PALMA/AEROPUERTO          | 2837N    | 01745W    | 31        |           | 1015.5       | 1019.1         | 24.2        |        | 20.5           |        | 2             | 37    |        | 5        | 123      |          |
| <b>60010 IZANA</b>                 | 2819N    | 01630W    | 2371      |           |              |                | 13.0        |        | 7.7            |        | 4             | 10    |        | 3        |          |          |
| 60020 STA. CRUZ DE TENERIFE        | 2827N    | 01615W    | 36        |           | 1013.7       | 1018.1         | 25.0        | .6     | 21.0           | 2.0    | 1             | 3     | -5     | 3        | 241      | 96       |
| 60030 LAS PALMAS DE GRAN CANARIA/G | 2756N    | 01523W    | 47        |           | 1011.6       | 1017.0         | 23.7        | -.1    | 18.6           | -1.4   | 2             | 6     | -2     | 4        | 206      | 90       |
| 60035 FUERTEVENTURA/AEROPUERTO     | 2827N    | 01352W    | 30        |           | 1014.1       | 1017.5         | 25.0        |        | 20.2           |        | 0             | T     |        | 4        | 213      | 90       |
| 60040 LANZAROTE/AEROPUERTO         | 2857N    | 01336W    | 21        |           | 1015.2       | 1017.6         | 24.7        | .2     | 19.8           | -.9    | 1             | 2     | 0      | 4        | 222      | 100      |
| <b>WESTERN SAHARA</b>              |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |

# SURFACE

# SEPTEMBER 2009

| STATION                          | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|----------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                  |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 60096 DAKHLA                     | 2343N    | 01556W    | 12        |           | 1014.4       | 1015.8         | 22.8        |        |                |        | 0             | T     |        | 0        | 206      | 80       |
| <b>MOROCCO</b>                   |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 60101 TANGER (AERODROME)         | 3544N    | 00554W    | 21        |           | 1014.1       | 1016.5         | 22.9        | .1     | 18.6           |        | 3             | 9     | -5     | 3        | 221      | 80       |
| 60115 OUJDA                      | 3447N    | 00156W    | 470       |           | 963.2        | 1015.9         | 21.7        | -.8    | 17.3           |        | 9             | 75    | 65     | 6        | 254      | 190      |
| 60120 KENITRA                    | 3418N    | 00636W    | 14        |           | 1014.1       | 1015.8         | 23.0        | .8     | 21.1           |        | 4             | 84    | 74     | 6        | 240      | 90       |
| 60135 RABAT-SALE                 | 3403N    | 00646W    | 84        |           | 1007.1       | 1015.8         | 21.4        | -.1    | 19.3           |        | 6             | 75    | 70     | 6        | 260      |          |
| 60150 MEKNES                     | 3353N    | 00532W    | 576       |           | 952.4        | 1015.6         | 21.3        | -1.6   | 15.4           |        | 11            | 126   | 112    | 6        | 216      | 80       |
| 60155 CASABLANCA                 | 3334N    | 00740W    | 57        |           | 1008.7       | 1015.4         | 22.0        | .3     | 22.0           |        | 5             | 92    | 88     | 6        | 253      | 65       |
| <b>60195 MIDELT</b>              | 3241N    | 00444W    | 1515      |           | 851.1        | 1526 Y         | 17.0        | -3.1   | 12.2           |        | 11            | 57    | 40     | 6        | 216      | 55       |
| 60230 MARRAKECH                  | 3137N    | 00802W    | 468       |           | 962.5        | 1015.2         | 23.3        | -2.0   | 16.6           |        | 6             | 83    | 78     | 6        | 263      | 100      |
| <b>60265 OUARZAZATE</b>          | 3056N    | 00654W    | 1140      |           | 888.7        | 1525 Y         | 24.2        | -.4    | 9.5            |        | 3             | 18    | 5      | 4        | 279      | 75       |
| <b>SPAIN (CEUTA AND MELILLA)</b> |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 60338 MELILLA                    | 3517N    | 00257W    | 55        |           | 1009.7       | 1016.1         | 23.6        | .1     | 22.6           | 1.5    | 4             | 38    | 31     | 5        | 203      | 107      |
| <b>ALGERIA</b>                   |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 60351 JIJEL-ACHOUAT              | 3648N    | 00553E    | 10        |           | 1014.2       | 1015.6         | 23.4        |        | 21.7           |        | 7             | 172   |        |          | 244      | 65       |
| 60353 JIJEL-PORT                 | 3649N    | 00553E    | 6         |           | 1014.9       | 1015.7         | 23.9        |        | 23.1           |        | 9             | 210   |        |          | 254      | 65       |
| 60360 ANNABA                     | 3650N    | 00749E    | 4         |           | 1014.6       | 1015.6         | 22.8        | -.4    | 20.8           |        | 6             | 68    | 38     | 6        | 238      | 65       |
| 60367 EL-KALA                    | 3654N    | 00827E    | 13        |           | 1014.4       | 1015.9         | 23.3        |        | 23.2           |        | 10            | 128   |        |          |          |          |
| 60369 ALGER-PORT                 | 3646N    | 00306E    | 12        |           | 1015.5       | 1016.3         | 23.7        |        | 16.8           |        | 10            | 82    |        | 6        |          |          |
| 60387 DELLYS                     | 3655N    | 00357E    | 8         |           | 1014.5       | 1015.1         | 22.5        |        | 21.1           |        | 9             | 121   |        |          | 241      |          |
| 60390 DAR-EL-BEIDA               | 3641N    | 00313E    | 29        |           | 1013.1       | 1016.5         | 22.7        | -.5    | 21.2           |        | 8             | 92    | 58     | 6        | 232      | 60       |
| 60395 TIZI-OUZOU                 | 3642N    | 00403E    | 189       |           | 997.7        | 1015.5         | 22.8        |        | 20.5           |        | 10            | 170   |        |          | 217      | 65       |
| 60401 BEJAIA-PORT                | 3645N    | 00506E    | 4         |           | 1015.6       | 1016.1         | 24.5        |        | 22.4           |        | 7             | 220   |        |          |          |          |
| 60402 BEJAIA-AEROPORT            | 3643N    | 00504E    | 3         |           | 1015.5       | 1016.3         |             |        | 22.1           |        | 8             | 190   | 150    | 6        | 112      | 30       |
| 60403 GUELMA                     | 3628N    | 00728E    | 228       |           | 989.8        | 1015.9         | 22.5        |        | 19.9           |        | 14            | 140   |        |          | 221      |          |
| 60405 BOUCHEGOUF                 | 3630N    | 00743E    | 111       |           |              | 1016.5         | 23.7        |        | 21.5           |        | 12            | 162   |        |          |          |          |
| 60410 TENES                      | 3630N    | 00120E    | 18        |           | 1015.3       | 1017.4         | 23.6        |        | 22.7           |        | 5             | 24    |        |          | 255      | 65       |
| 60415 AIN-BESSAM                 | 3619N    | 00332E    | 748       |           | 932.1        | 1537 Y         | 19.9        |        | 15.7           |        | 9             | 67    |        |          | 232      | 65       |
| 60417 BOUIRA                     | 3623N    | 00353E    | 560       |           | 952.1        | 1015.2         | 21.5        |        | 17.4           |        | 8             | 102   |        |          | 223      | 60       |
| 60419 CONSTANTINE                | 3617N    | 00637E    | 694       |           | 938.0        | 1015.7         | 19.9        | -1.5   | 17.1           |        | 8             | 104   | 68     | 6        | 229      | 60       |
| 60421 OUM EL BOUAGHI             | 3552N    | 00707E    | 891       |           | 915.4        | 1527 Y         | 20.2        |        | 16.1           |        | 6             | 74    |        |          | 244      |          |
| 60423 SOUK AHRAS                 | 3617N    | 00758E    | 680       |           | 922.9        | 1527 Y         | 20.0        |        | 16.8           |        | 8             | 111   |        |          | 242      |          |
| 60425 CHLEF                      | 3613N    | 00120E    | 144       |           | 997.0        | 1015.8         | 24.2        | -1.3   | 16.6           |        | 5             | 74    | 63     | 6        | 247      |          |
| 60430 MILIANA                    | 3618N    | 00214E    | 721       |           | 935.8        | 1016.3         | 20.8        | -2.1   | 16.3           |        | 6             | 37    | 8      | 4        | 224      |          |
| 60437 MEDEA                      | 3617N    | 00244E    | 1036      |           | 899.1        | 1514 Y         | 18.6        |        | 15.7           |        | 10            | 86    |        |          | 234      |          |
| 60444 BORDJ-BOU-ARRERIDJ         | 3604N    | 00446E    | 930       |           |              | 1537 Y         | 20.1        |        | 14.5           |        | 8             | 49    |        |          | 251      |          |
| 60445 SETIF                      | 3611N    | 00515E    | 1040      |           | 903.5        | 1535 Y         | 19.1        |        | 15.3           |        | 10            | 64    |        |          | 234      |          |
| 60452 ARZEW                      | 3549N    | 00016W    | 4         |           | 1015.2       | 1015.8         | 23.3        |        | 21.7           |        | 3             | 43    |        |          | 223      | 60       |
| 60457 MOSTAGANEM                 | 3553N    | 00007E    | 138       |           | 999.4        | 1015.7         | 22.4        |        | 19.0           |        | 7             | 28    |        |          | 246      |          |
| 60461 ORAN-PORT                  | 3542N    | 00039W    | 22        |           | 1013.3       | 1015.9         | 23.1        |        | 22.2           |        | 8             | 54    |        |          |          |          |
| 60467 M'SILA                     | 3540N    | 00430E    | 442       |           | 964.6        | 1014.3         | 23.6        |        | 17.9           |        | 8             | 23    |        |          | 217      | 70       |



# SURFACE

# SEPTEMBER 2009

| STATION                  | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|--------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                          |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 60468 BATNA              | 3545N    | 00619E    | 826       |           | 923.3        | 1532 Y         | 20.4        | .3     | 15.2           |        | 7             | 50    | 13     | 4        | 230      |          |
| 60475 TEBESSA            | 3525N    | 00807E    | 823       |           | 924.1        | 1535 Y         | 21.0        | -.2    | 17.9           |        | 11            | 97    | 68     | 5        | 235      | 60       |
| 60476 KHENCHELLA         | 3528N    | 00705E    | 987       |           | 906.1        | 1532 Y         | 19.7        |        | 15.9           |        | 6             | 73    |        |          | 204      |          |
| 60490 ORAN-SENIA         | 3538N    | 00036W    | 91        |           | 1005.3       | 1015.8         | 22.9        | -.4    | 19.8           |        | 6             | 51    | 39     | 5        | 242      | 65       |
| 60511 TIARET             | 3521N    | 00128E    | 978       |           | 906.9        | 1530 Y         | 19.1        |        | 14.0           |        | 10            | 90    |        |          | 242      | 65       |
| 60514 KSAR CHELLALA      | 3510N    | 00219E    | 801       |           | 926.2        | 1534 Y         | 21.0        |        | 14.7           |        | 10            | 149   |        |          | 233      | 65       |
| 60515 BOU-SAADA          | 3520N    | 00412E    | 461       |           | 964.4        | 1016.3         | 24.2        |        | 17.3           |        | 10            | 65    |        |          | 262      |          |
| 60517 GHAZAOUET          | 3506N    | 00152W    | 5         |           | 1015.2       | 1016.4         | 23.3        |        | 23.9           |        | 7             | 61    |        |          |          |          |
| 60518 BENI-SAF           | 3518N    | 00121W    | 70        |           | 1006.3       | 1014.4         | 23.2        |        | 22.6           |        | 7             | 117   |        |          | 242      | 65       |
| 60520 SIDI-BEL-ABBES     | 3512N    | 00037W    | 476       |           | 960.1        | 1015.2         | 21.2        |        | 16.4           |        | 6             | 34    |        |          | 235      |          |
| 60522 MAGHNIA            | 3449N    | 00147W    | 428       |           | 967.5        | 1016.1         | 22.0        |        | 17.2           |        | 7             | 81    |        |          | 229      |          |
| 60525 BISKRA             | 3448N    | 00544E    | 89        |           | 1002.1       | 1012.2         | 27.1        | -1.1   | 17.7           |        | 9             | 48    | 25     | 4        | 256      |          |
| 60531 TLEMCEB-ZENATA     | 3501N    | 00128W    | 247       |           |              | 1016.5         | 21.4        |        | 20.1           |        | 7             | 91    |        |          | 211      | 55       |
| 60535 DJELFA             | 3420N    | 00323E    | 1185      |           | 884.7        | 1526 Y         | 18.9        | -1.5   | 14.3           |        | 7             | 69    | 44     | 5        | 226      | 60       |
| 60536 SAIDA              | 3452N    | 00009E    | 752       |           | 931.2        | 1529 Y         | 20.6        |        | 15.9           |        | 9             | 99    |        |          | 231      |          |
| 60540 EL-KHEITER         | 3409N    | 00004E    | 1001      |           | 902.5        | 1512 Y         | 20.0        |        | 12.9           |        | 13            | 75    |        |          | 234      | 65       |
| 60545 LAGHOUAT           | 3346N    | 00256E    | 763       |           | 929.7        | 1527 Y         | 22.6        |        | 14.9           |        | 4             | 79    |        |          | 205      | 55       |
| 60549 MECHERIA           | 3335N    | 00017W    | 1150      |           | 892.4        | 1540 Y         | 19.9        |        | 13.7           |        | 10            | 72    |        |          | 212      | 60       |
| 60550 EL-BAYADH          | 3340N    | 00100E    | 1347      |           | 868.8        | 1534 Y         | 18.5        |        | 12.6           |        | 10            | 82    |        |          | 228      |          |
| 60555 TOUGGOURT          | 3307N    | 00608E    | 92        |           | 1003.6       | 1014.1         | 27.2        |        | 18.4           |        | 3             | 23    |        |          | 267      |          |
| 60557 NAAMA              | 3316N    | 00018W    | 1166      |           | 886.8        | 1530 Y         | 20.0        |        | 13.6           |        | 10            | 61    |        |          | 228      |          |
| 60559 EL-OUED            | 3330N    | 00647E    | 69        |           | 1005.9       | 1013.8         | 27.4        | -.8    | 19.6           |        | 3             | 32    | 27     | 5        | 265      |          |
| 60560 AIN-SEFRA          | 3246N    | 00036W    | 1059      |           | 896.9        | 1516 Y         | 20.5        |        | 14.4           |        | 11            | 98    |        |          | 227      |          |
| 60563 HASSIR'MEL         | 3256N    | 00317E    | 764       |           | 929.4        | 1538 Y         | 23.5        |        | 16.6           |        | 5             |       |        |          | 269      | 75       |
| 60566 GHARDAIA           | 3224N    | 00348E    | 469       |           | 961.9        | 1014.3         | 26.6        | -1.4   | 15.9           |        | 5             | 43    | 39     | 6        | 261      |          |
| 60571 BECHAR             | 3130N    | 00215W    | 816       |           | 924.5        | 1537 Y         | 25.1        | -2.7   | 16.0           |        | 8             | 76    | 71     | 6        | 262      | 70       |
| 60580 OUARGLA            | 3156N    | 00524E    | 148       |           | 996.6        | 1013.3         | 28.3        |        | 15.5           |        | 0             | 0     |        |          |          |          |
| 60581 HASSI-MESSAOUD     | 3140N    | 00609E    | 144       |           | 996.6        | 1012.9         | 29.4        | .0     | 16.4           |        | 4             | 15    | 14     | 5        | 267      |          |
| 60590 EL-GOLEA           | 3034N    | 00252E    | 403       |           | 968.7        | 1013.5         | 28.5        | .2     | 13.9           |        | 0             | 0     | -1     | 3        | 262      | 70       |
| 60602 BENI-ABBES         | 3008N    | 00210W    | 505       |           | 955.7        | 1011.4         | 28.1        | -2.0   | 15.8           |        | 3             | 52    | 51     | 6        | 250      |          |
| 60607 TIMIMOUN           | 2915N    | 00017E    | 317       |           | 976.5        | 1011.8         | 29.2        | -1.6   | 12.4           |        | 2             | 9     | 8      | 6        | 243      |          |
| 60620 ADRAR              | 2753N    | 00011W    | 283       |           | 980.4        | 1011.9         | 30.5        | -1.1   | 11.8           |        | 1             | 3     | 2      | 6        | 216      |          |
| 60630 IN-SALAH           | 2714N    | 00230E    | 269       |           | 981.6        | 1011.5         | 31.9        | -1.2   | 13.3           |        | 2             | 6     | 5      | 6        | 228      | 85       |
| 60640 ILLIZI             | 2630N    | 00825E    | 544       |           | 952.2        | 1011.6         | 31.6        |        | 13.8           |        | 1             | 2     |        |          | 227      |          |
| 60656 TINDOUF            | 2742N    | 00810W    | 443       |           | 961.9        | 1011.5         | 27.6        |        | 14.7           |        | 1             | 3     |        |          | 264      |          |
| 60670 DJANET             | 2416N    | 00928E    | 970       |           | 907.6        | 1550 Y         | 30.7        | 2.0    | 11.3           |        | 2             | 19    | 17     | 6        | 273      | 90       |
| 60680 TAMANRASSET        | 2248N    | 00526E    | 1364      |           | 866.5        | 1546 Y         | 27.7        | 1.2    | 11.0           |        | 4             | 14    | 6      | 4        | 202      | 80       |
| 60686 BORDJ-BADJ-MOKHTAR | 2120N    | 00057E    | 399       |           | 965.9        | 1009.1         | 35.5        |        | 11.7           |        | 1             | 2     |        |          | 185      |          |
| <b>TUNISIA</b>           |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 60715 TUNIS-CARTHAGE     | 3650N    | 01014E    | 4         |           | 1015.2       | 1015.7         | 25.6        | 1.2    | 22.0           |        | 10            | 53    | 21     | 5        | 248      | 96       |
| 60725 JENDOUBA           | 3629N    | 00848E    | 144       |           | 999.3        | 1015.7         | 23.9        | -.3    | 20.4           |        | 7             | 48    | 18     | 5        | 233      | 90       |
| 60735 KAIROUAN           | 3540N    | 01006E    | 68        |           | 1007.5       | 1014.8         | 26.1        | .7     | 21.1           |        | 7             | 91    | 52     | 5        | 241      | 89       |
| 60745 GAFSA              | 3425N    | 00849E    | 314       |           | 979.0        | 1014.7         | 24.2        | -1.1   | 17.4           |        | 8             | 76    | 54     | 5        | 200      | 71       |
| 60765 GABES              | 3353N    | 01006E    | 5         |           | 1014.5       | 1014.8         | 26.6        | 1.0    | 26.3           |        | 4             | 56    | 34     | 5        | 213      | 76       |

# SURFACE

# SEPTEMBER 2009

| STATION                | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                        |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>NIGER</b>           |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 61017 BILMA            | 1841N    | 01255E    | 357       |           | 969.9        | 1008.9         | 33.2        |        | 14.2           |        | 0             | 0     |        |          | 284      | 90       |
| 61024 AGADEZ           | 1658N    | 00759E    | 502       |           | 954.0        | 1008.3         | 33.2        |        | 16.7           |        | 5             | 56    |        | 5        | 205      | 70       |
| 61036 TILLABERY        | 1412N    | 00127E    | 210       |           |              |                | 31.0        |        | 26.5           |        | 3             | 24    |        | 1        | 256      | 95       |
| 61043 TAHOUA           | 1454N    | 00515E    | 391       |           | 967.1        | 1010.1         | 30.1        |        | 25.0           |        | 6             | 85    |        | 5        | 247      | 95       |
| 61045 GOURE            | 1359N    | 01018E    | 464       |           |              |                | 30.8        |        | 21.9           |        | 1             | 43    |        | 2        | 252      |          |
| 61049 N'GUIGMI         | 1415N    | 01307E    | 286       |           | 976.9        | 1008.7         | 30.8        |        | 23.8           |        | 2             | 12    |        | 3        | 245      | 90       |
| 61052 NIAMEY-AERO      | 1329N    | 00210E    | 227       |           | 985.5        | 1010.3         | 29.7        |        | 27.5           |        | 6             | 96    |        | 4        | 235      | 90       |
| 61075 BIRNI-N'KONNI    | 1348N    | 00515E    | 273       |           | 979.9        | 1010.1         | 29.6        |        | 27.0           |        | 7             | 59    |        | 2        | 246      | 95       |
| 61080 MARADI           | 1328N    | 00705E    | 373       |           | 967.7        | 1008.9         | 28.4        |        | 25.6           |        | 9             | 108   |        | 4        | 265      | 95       |
| 61085 DIFFA            | 1325N    | 01247E    | 305       |           |              |                | 30.0        |        | 26.3           |        | 4             | 29    |        | 0        |          |          |
| 61090 ZINDER           | 1347N    | 00859E    | 453       |           | 959.7        | 1009.4         | 30.1        |        | 24.2           |        | 8             | 33    |        | 2        | 264      | 100      |
| 61091 MAGARIA          | 1259N    | 00856E    | 403       |           | 965.7        | 1010.1         | 29.0        |        | 26.2           |        | 6             | 63    |        | 2        | 251      | 95       |
| 61096 MAINE-SOROA      | 1314N    | 01159E    | 338       |           | 971.2        | 1008.3         | 30.2        |        | 27.1           |        | 3             | 35    |        | 2        | 252      |          |
| 61099 GAYA             | 1153N    | 00327E    | 203       |           | 986.5        | 1009.2         | 27.6        |        | 29.2           |        | 10            | 143   |        | 3        | 223      | 95       |
| <b>MALI</b>            |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 61202 TESSALIT         | 2012N    | 00059E    | 494       |           | 955.9        | 1008.7         | 34.7        |        | 12.8           |        | 6             | 27    | 16     |          | 133      | 90       |
| 61233 NARA             | 1510N    | 00717W    | 271       |           |              |                | 28.5        | -3     | 28.0           |        | 6             | 104   | 39     |          |          |          |
| 61240 HOMBORI          | 1520N    | 00141W    | 288       |           | 978.2        | 1009.9         | 30.9        | .1     | 27.9           |        | 6             | 106   | 49     |          | 225      | 93       |
| 61257 KAYES            | 1426N    | 01126W    | 47        |           | 1006.5       | 1015.2         | 28.1        | .0     | 30.4           |        | 13            | 148   | 17     | 2        | 215      | 90       |
| 61265 MOPTI            | 1431N    | 00406W    | 276       |           | 980.7        | 1010.8         | 28.2        | .1     | 29.1           |        | 10            | 141   | 61     |          | 185      | 74       |
| 61272 SEGOU            | 1324N    | 00609W    | 289       |           | 979.4        | 1011.6         | 27.0        | .0     | 30.4           |        | 10            | 166   | 50     | 4        |          |          |
| 61277 SAN              | 1320N    | 00450W    | 284       |           | 979.9        | 1011.5         | 27.5        | .3     | 29.4           |        | 13            | 189   | 56     | 5        | 222      | 92       |
| 61291 BAMAKO/SENOU     | 1232N    | 00757W    | 381       |           | 970.5        | 1011.3         | 26.0        | -6     | 28.5           |        | 17            | 351   | 187    |          | 188      | 85       |
| 61293 KOUTIALA         | 1223N    | 00528W    | 367       |           |              |                | 26.5        | .3     | 28.1           |        | 14            | 251   | 86     | 4        | 201      | 83       |
| 61296 BOUGOUNI         | 1125N    | 00730W    | 351       |           | 973.1        | 1012.0         | 26.0        | .1     | 29.9           |        | 18            | 274   | 68     | 4        | 171      | 80       |
| <b>MAURITANIA</b>      |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 61404 ZOUERATE         | 2245N    | 01229W    | 343       |           | 975.1        | 1013.0         | 31.0        |        |                |        | 3             | 10    |        | 3        |          |          |
| 61415 NOUADHIBOU       | 2056N    | 01702W    | 5         |           | 1013.3       | 1013.8         | 26.2        |        | 22.6           |        | 1             | 3     |        | 4        | 230      | 95       |
| 61442 NOUAKCHOTT       | 1806N    | 01557W    | 3         |           | 1011.6       | 1012.0         | 30.6        |        | 31.1           |        | 5             | 98    |        |          | 228      |          |
| 61489 ROSSO            | 1630N    | 01549W    | 6         |           | 1013.3       | 1014.0         | 30.6        |        | 12.9           |        | 6             | 87    |        | 4        |          |          |
| 61497 NEMA             | 1636N    | 00716W    | 269       |           | 985.4        | 1007.1         | 31.6        |        | 23.7           |        | 6             | 67    |        | 5        |          |          |
| 61499 AIOUN EL ATROUSS | 1642N    | 00936W    | 223       |           | 986.0        | 1010.8         | 31.7        |        | 25.6           |        | 7             | 86    |        | 5        |          |          |
| <b>SENEGAL</b>         |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 61600 SAINT-LOUIS      | 1603N    | 01627W    | 4         |           | 1011.7       | 1012.2         | 28.8        |        | 34.0           | 3.2    | 11            | 139   | 47     |          | 171      | 75       |
| 61612 PODOR            | 1639N    | 01458W    | 7         |           | 1011.2       | 1012.0         | 30.4        |        | 30.6           | 3.7    | 12            | 117   | 44     | 4        | 217      |          |
| 61627 LINGUERE         | 1523N    | 01507W    | 21        |           |              |                | 27.5        |        | 30.6           | 1.8    | 10            | 62    | -37    | 1        | 208      | 92       |
| 61630 MATAM            | 1539N    | 01315W    | 17        |           | 1009.6       | 1011.5         | 29.9        |        | 28.0           | .0     | 9             | 95    | 1      |          | 252      | 100      |
| 61641 DAKAR/YOFF       | 1444N    | 01730W    | 27        |           | 1009.2       | 1012.4         | 27.9        |        | 31.7           | 1.5    | 13            | 165   | 31     | 3        | 178      | 81       |
| 61666 DIOURBEL         | 1439N    | 01614W    | 9         |           | 1011.5       | 1012.3         | 28.3        |        | 33.5           | 4.2    | 15            | 194   | 41     |          | 174      |          |

# SURFACE

# SEPTEMBER 2009

| STATION                                    | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|--|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|  |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 61679 KAOLACK                              | 1408N    | 01604W    | 7         |           | 1012.6       | 1013.4         | 28.3        |        | 31.9           |        | 20            | 207   | 52     | 4        | 206      | 90       |
| <b>61687 TAMBACOUNDA</b>                   | 1346N    | 01341W    | 50        |           | 1006.2       | 1012.4         | 27.5        |        | 29.3           | .3     | 19            | 244   | 69     | 4        | 165      | 74       |
| 61695 ZIGUINCHOR                           | 1233N    | 01616W    | 26        |           | 1010.4       | 1013.0         | 27.2        |        | 32.6           | 3.0    | 20            | 343   | 25     | 5        | 142      | 73       |
| 61698 KOLDA                                | 1253N    | 01458W    | 10        |           | 1011.6       | 1012.7         | 27.4        |        | 31.0           | 1.4    | 21            | 299   | 50     |          | 148      | 70       |
| 61699 KEDOUGOU                             | 1234N    | 01213W    | 178       |           | 992.3        | 1011.1         | 26.0        |        | 29.0           |        | 20            | 381   | 96     | 5        | 194      | 89       |
| <b>OCEAN ISLANDS</b>                       |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>61901 ST. HELENA IS.</b>                | 1556S    | 00540W    | 436       |           | 968.9        | 1020.0         | 16.4        |        |                |        | 11            | 42    |        |          | 65       | 90       |
| 61976 SERGE-FROLOW (ILE TROMELIN)          | 1548S    | 05430E    | 13        |           | 1017.1       | 1018.6         | 24.4        |        | 22.9           |        | 15            | 38    |        |          | 232      |          |
| <b>61996 MARTIN DE VIVIES (ILE AMSTER)</b> | 3748S    | 07730E    | 29        |           |              | 1020.5         | 12.0        |        | 11.9           |        | 10            | 63    | -20    |          |          |          |
| <b>61998 PORT-AUX-FRANCAIS (ILES KERG)</b> | 4918S    | 07012E    | 29        |           |              | 1001.0         | 2.7         | .5     | 5.7            |        | 8             | 43    | -22    |          | 122      | 97       |
| <b>MAURITIUS</b>                           |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>61974 AGALEGA</b>                       | 1026S    | 05645E    | 3         |           | 1014.5       | 1015.0         | 25.7        | .3     | 26.7           | 1.3    | 10            | 42    | -15    | 3        | 239      | 65       |
| <b>61986 ST. BRANDON (ST. RAPHAEL)</b>     | 1627S    | 05937E    | 4         |           | 1017.7       | 1018.1         | 24.2        | .7     | 22.9           | -5     | 8             | 38    | 9      | 4        |          |          |
| <b>61988 RODRIGUES</b>                     | 1941S    | 06325E    | 59        |           |              | 1020.3         | 22.4        | .4     | 20.2           | .6     | 15            | 65    | 24     | 5        | 249      | 104      |
| <b>61990 PLAISANCE (MAURITIUS)</b>         | 2026S    | 05741E    | 57        |           | 1015.0       | 1021.3         | 22.4        | 1.1    | 19.8           | .2     | 11            | 51    | -10    | 3        | 222      | 113      |
| 61995 VACOAS (MAURITIUS)                   | 2018S    | 05730E    | 425       |           | 971.7        |                | 19.5        | 7.9    | 18.4           |        | 14            | 56    |        | 2        | 222      | 100      |
| <b>EGYPT</b>                               |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>62306 MERSA MATRUH</b>                  | 3120N    | 02713E    | 28        |           | 1010.6       | 1014.0         | 25.9        | 1.6    | 21.4           | -2     | 0             | 0     |        | 0        | 323      | 105      |
| 62337 EL ARISH                             | 3105N    | 03349E    | 32        |           | 1007.8       | 1011.6         | 25.7        | 1.3    | 22.4           | .0     | 0             | 0     |        | 0        | 327      | 110      |
| 62378 HELWAN                               | 2952N    | 03120E    | 141       |           | 997.0        | 1013.2         | 27.9        | 2.1    | 17.9           | -1     | 0             | 0     |        | 0        | 309      | 110      |
| 62387 MINYA                                | 2805N    | 03044E    | 40        |           | 1006.5       | 1011.0         | 26.1        | .0     | 19.5           | 2.1    | 0             | 0     |        | 0        | 327      | 104      |
| 62403 SOUTH OF VALLEY UNIVERSITY           | 2612N    | 03245E    | 96        |           | 999.1        | 1009.8         | 31.0        |        |                |        | 0             | 0     |        | 0        | 336      | 100      |
| <b>62414 ASSWAN</b>                        | 2358N    | 03247E    | 200       |           | 987.0        | 1008.8         | 32.9        | 1.7    | 11.5           | 1.6    | 0             | 0     |        | 0        | 335      | 112      |
| <b>62417 SIWA</b>                          | 2912N    | 02519E    | -13       |           | 1014.4       | 1012.9         | 29.5        | 2.4    | 17.7           | 2.3    | 0             | 0     |        | 0        | 331      | 105      |
| 62423 FARAFRA                              | 2703N    | 02759E    | 78        |           | 1003.4       | 1012.8         | 28.5        | 1.3    | 12.6           | .1     | 0             | 0     |        | 0        | 328      |          |
| 62435 KHARGA                               | 2527N    | 03032E    | 78        |           | 1000.7       | 1009.7         | 31.5        | 2.5    | 14.3           | -7     | 0             | 0     |        | 0        | 325      | 101      |
| 62453 ELHASANA                             | 3027N    | 03346E    | 255       |           | 985.5        | 1011.5         | 25.5        |        | 24.0           |        | 0             | 0     |        | 0        | 328      | 120      |
| 62467 DAHAB                                | 2829N    | 03430E    | 19        |           | 1006.1       | 1008.1         | 30.6        |        | 19.3           |        | 0             | 0     |        | 0        | 326      | 90       |
| <b>SUDAN</b>                               |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>62600 WADI HALFA</b>                    | 2149N    | 03121E    | 190       |           | 989.7        | 1010.3         | 34.1        | 2.3    | 13.5           |        | 0             | 0     | -T     | 0        | 313      | 85       |
| <b>62640 ABU HAMED</b>                     | 1932N    | 03319E    | 312       |           | 971.0        | 1005.1         | 36.3        | 1.4    | 12.1           |        | 0             | 0     | -1     | 0        | 288      | 80       |
| <b>62641 PORT SUDAN</b>                    | 1935N    | 03713E    | 42        |           | 1003.9       | 1008.4         | 32.4        | .3     | 21.5           |        | 0             | 0     | -T     | 0        | 252      | 70       |
| <b>62650 DONGOLA</b>                       | 1910N    | 03029E    | 226       |           | 981.3        | 1007.1         | 35.8        | 3.5    | 11.1           |        | 0             | 0     | -7     | 0        | 285      | 75       |
| 62660 KARIMA                               | 1833N    | 03151E    | 249       |           | 978.6        | 1007.2         | 36.3        | 1.7    | 9.9            |        | 0             | 0     | -1     | 0        | 293      | 80       |
| 62680 ATBARA                               | 1742N    | 03358E    | 347       |           | 967.2        | 1005.0         | 36.3        | 2.0    | 13.9           |        | 0             | 0     | -6     | 0        | 265      | 75       |
| 62721 KHARTOUM                             | 1536N    | 03233E    | 382       |           | 963.7        | 1006.2         | 34.2        | 1.7    | 19.1           |        | 2             | 5     | -20    | 2        |          |          |
| <b>62730 KASSALA</b>                       | 1528N    | 03624E    | 500       |           | 956.2        | 1011.4         | 32.4        | 2.0    | 17.2           |        | 1             | 4     | -36    | 3        |          |          |
| 62751 WAD MEDANI                           | 1424N    | 03329E    | 408       |           | 963.3        | 1008.5         | 29.3        | .2     | 21.4           |        | 3             | 31    | -14    | 2        | 270      |          |
| 62752 GEDAREF                              | 1402N    | 03524E    | 599       |           | 941.9        | 1007.8         | 29.4        | 2.0    | 24.2           |        | 3             | 153   | 68     | 5        | 272      | 75       |

# SURFACE

# SEPTEMBER 2009

| STATION                                   | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|---|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|   |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>62760 EL FASHER</b>                    | 1337N    | 02520E    | 733       |           | 927.3        | 1005.9         | 31.3        | 2.8    | 17.1           |        | 2             | 9     | -26    | 1        | 227      | 60       |
| <b>62762 SENNAR</b>                       | 1333N    | 03337E    | 418       |           | 959.8        | 1006.1         | 29.3        | .7     | 25.8           |        | 2             | 23    | -61    | 0        | 245      | 65       |
| <b>62770 GENINA</b>                       | 1329N    | 02227E    | 805       |           | 921.8        | 1008.6         | 30.0        | 3.3    | 20.5           |        | 2             | 23    | -42    | 2        | 227      | 60       |
| 62771 EL OBEID                            | 1310N    | 03014E    | 574       |           | 945.2        | 1008.3         | 28.9        | .6     | 23.8           |        | 11            | 58    | -3     | 3        | 255      | 70       |
| 62772 AROMA                               | 1310N    | 03240E    | 381       |           | 965.6        | 1007.9         | 30.1        | 2.2    | 26.1           |        | 6             | 18    | -44    | 1        |          |          |
| <b>62781 EN NAHUD</b>                     | 1242N    | 02826E    | 565       |           | 947.1        | 1009.0         | 29.6        | 1.0    | 24.5           |        | 9             | 61    | 17     | 3        | 251      | 70       |
| 62795 ABU NA'AMA                          | 1244N    | 03408E    | 445       |           | 958.7        | 1007.8         | 28.7        | 1.2    | 24.1           |        | 5             | 45    | -55    | 1        | 219      | 60       |
| 62805 DAMAZINE                            | 1147N    | 03423E    | 474       |           | 955.3        | 1007.4         | 28.7        | 2.0    | 25.9           |        | 9             | 122   | -11    | 3        | 213      | 60       |
| 62810 KADOGLLI                            | 1100N    | 02943E    | 499       |           |              |                | 29.1        | 2.4    | 24.9           |        | 12            | 95    | -3     | 2        | 192      |          |
| <b>62840 MALKAL</b>                       | 0933N    | 03139E    | 388       |           | 966.7        | 1009.0         | 28.7        | 1.8    | 28.8           |        | 8             | 157   | 33     | 5        | 194      | 55       |
| <b>62941 JUBA</b>                         | 0452N    | 03136E    | 460       |           | 957.1        | 1010.0         | 28.8        | 2.0    | 25.5           |        | 15            | 144   | 28     | 5        | 190      | 50       |
| <b>ETHIOPIA</b>                           |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 63331 GONDAR                              | 1233N    | 03725E    | 1967      |           |              |                | 19.6        |        | 14.3           |        | 12            | 63    |        |          |          |          |
| 63402 JIMMA                               | 0740N    | 03650E    | 1725      |           |              |                | 20.2        |        | 18.7           |        | 18            | 210   |        |          |          |          |
| <b>63450 ADDIS ABABA-BOLE</b>             | 0902N    | 03845E    | 2354      |           | 773.7        | 1010.9         | 17.4        |        | 14.0           |        | 10            | 113   |        |          | 192      |          |
| 63471 DIREDAWA                            | 0936N    | 04151E    | 1260      |           |              |                | 29.1        |        | 17.3           |        | 7             | 26    |        |          |          |          |
| <b>KENYA</b>                              |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>63740 NAIROBI/KENYATTA AIRPORT</b>     | 0119S    | 03655E    | 1624      |           | 840.8        | 1525 Y         | 20.2        |        | 13.5           |        | 1             | 2     |        |          | 204      | 125      |
| <b>UNITED REPUBLIC OF TANZANIA</b>        |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 63756 MWANZA                              | 0228S    | 03255E    | 1140      |           | 887.1        | 1509 Y         | 23.3        |        | 19.4           |        | 6             | 59    | 30     |          | 239      |          |
| <b>63832 TABORA AIRPORT</b>               | 0505S    | 03250E    | 1190      |           | 882.2        | 1498 Y         | 25.5        |        | 13.3           |        | 2             | 4     | -9     |          | 291      |          |
| <b>63862 DODOMA</b>                       | 0610S    | 03546E    | 1120      |           |              | 1533 Y         | 22.5        |        | 13.4           |        | 0             | 0     | 0      | 0        | 311      |          |
| <b>63894 DAR ES SALAAM INT</b>            | 0652S    | 03912E    | 55        |           | 1009.9       | 1016.2         | 25.0        |        | 23.1           |        | 1             | 2     | -26    |          | 284      |          |
| <b>63962 SONGEA</b>                       | 1041S    | 03535E    | 1067      |           | 898.5        | 1543 Y         | 21.9        |        | 13.6           |        | 1             | 3     | 2      | 3        | 289      |          |
| 63971 MTWARA                              | 1016S    | 04011E    | 113       |           | 1003.6       | 1016.5         | 24.3        |        | 22.9           |        | 01            | 1     | -11    |          | 284      |          |
| <b>SEYCHELLES</b>                         |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>63980 SEYCHELLES INTERNATIONAL AIR</b> | 0440S    | 05531E    | 3         |           | 1012.4       | 1012.8         | 26.9        | .5     | 28.2           | 1.1    | 15            | 110   | -11    | 3        | 198      | 87       |
| <b>CENTRAL AFRICAN REPUBLIC</b>           |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 64605 BOSSEMBELE                          | 0516N    | 01738E    | 674       |           | 936.4        | 1009.7         | 23.8        |        | 25.4           |        | 16            | 196   |        |          |          |          |
| <b>NIGERIA</b>                            |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 65123 MINNA                               | 0937N    | 00632E    | 262       |           | 950.2        | 1014.0         | 26.0        | 1.1    | 27.7           | .8     | 18            | 274   | 35     | 5        | 170      | 94       |
| 65167 YOLA                                | 0914N    | 01228E    | 191       |           | 992.1        | 1013.2         | 27.4        |        | 30.3           | 2.6    | 13            | 122   | -58    | 2        | 212      | 102      |
| 65201 LAGOS/IKEJA                         | 0635N    | 00320E    | 40        |           | 1009.4       | 1014.9         | 25.9        |        | 28.9           | .2     | 11            | 84    | -76    | 1        | 91       | 80       |
| <b>BENIN</b>                              |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |

# SURFACE

# SEPTEMBER 2009

| STATION                      | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                              |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>65306 KANDI</b>           | 1108N    | 00256E    | 292       |           | 978.7        | 1011.4         | 27.0        | .8     | 29.2           | 1.9    | 11            | 203   | 13     | 4        | 199      | 93       |
| 65319 NATITINGOU             | 1019N    | 00123E    | 461       |           | 961.0        | 1012.1         | 25.6        | .3     | 28.3           | 2.5    | 19            | 248   | -6     | 3        | 169      | 104      |
| 65330 PARAKOU                | 0921N    | 00237E    | 393       |           | 968.4        | 1012.2         | 25.5        | .5     | 26.9           | 1.3    | 16            | 252   | 47     | 5        | 161      | 110      |
| <b>65335 SAVE</b>            | 0802N    | 00228E    | 200       |           | 989.8        | 1012.3         | 25.7        | .1     | 27.5           | 1.2    | 8             | 82    | -76    | 1        | 117      | 98       |
| 65338 BOHICON                | 0710N    | 00204E    | 167       |           | 994.0        | 1012.9         | 25.6        | -.4    | 28.1           | 1.6    | 7             | 138   | -2     | 3        | 115      | 93       |
| 65344 COTONOU                | 0621N    | 00223E    | 9         |           | 1011.0       | 1012.1         | 26.6        | .6     | 28.8           | .7     | 3             | 23    | -76    | 1        | 166      | 101      |
| <b>GHANA</b>                 |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 65442 KUMASI                 | 0643N    | 00136W    | 293       |           | 980.6        | 1013.9         | 25.0        |        | 27.4           |        | 9             | 99    |        |          |          |          |
| <b>BURKINA FASO</b>          |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>65501 DORI</b>            | 1402N    | 00002W    | 277       |           | 979.9        | 1010.7         | 29.9        |        | 26.4           |        | 7             | 37    |        | 1        | 253      | 95       |
| 65502 OUAHIGOUYA             | 1334N    | 00225W    | 337       |           | 973.5        | 1010.8         | 27.8        |        | 27.2           |        | 10            | 200   |        | 6        | 252      | 100      |
| 65503 OUAGADOUGOU            | 1221N    | 00131W    | 316       |           | 977.5        | 1011.6         | 27.9        |        | 27.6           |        | 10            | 330   |        | 6        | 221      | 100      |
| 65505 DEDOUGOU               | 1228N    | 00329W    | 300       |           | 978.0        | 1011.6         | 26.6        |        | 28.4           |        | 14            | 208   |        | 5        | 219      | 90       |
| 65507 FADA N'GOURMA          | 1202N    | 00022E    | 309       |           | 976.9        | 1011.5         | 26.8        |        | 29.4           |        | 6             | 120   |        | 2        | 219      | 95       |
| 65510 BOBO-DIOULASSO         | 1110N    | 00419W    | 460       |           | 960.9        | 1012.0         | 25.7        |        | 26.7           |        | 19            | 194   |        | 3        | 175      | 80       |
| <b>65516 BOROMO</b>          | 1145N    | 00256W    | 271       |           | 981.2        | 1011.5         | 26.8        |        | 28.6           |        | 14            | 187   |        | 4        | 213      | 100      |
| 65518 PO                     | 1109N    | 00109W    | 322       |           | 974.9        | 1011.0         | 26.5        |        | 27.6           |        | 16            | 217   |        | 5        | 216      | 95       |
| 65522 GAOUA                  | 1020N    | 00311W    | 335       |           | 978.4        | 1012.2         | 26.0        |        | 28.4           |        | 15            | 225   |        | 4        | 186      | 85       |
| <b>MOZAMBIQUE</b>            |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 67215 PEMBA                  | 1259S    | 04032E    | 101       |           | 1006.5       | 1017.7         | 24.8        |        |                |        | 1             | 3     |        |          | 285      |          |
| 67217 LICHINGA               | 1318S    | 03514E    | 1365      |           | 872.2        | 1583 Y         | 16.5        |        | 19.4           |        | 0             | 0     |        | 0        | 247      |          |
| 67237 NAMPULA                | 1506S    | 03917E    | 441       |           | 961.0        | 1018.2         | 24.2        |        | 18.2           |        | 0             | 0     |        | 0        | 254      |          |
| 67261 TETE                   | 1611S    | 03335E    | 150       |           | 997.7        | 1014.3         | 28.5        |        | 18.9           |        | 0             | 0     |        | 0        | 261      |          |
| 67283 QUELIMANE              | 1753S    | 03653E    | 16        |           | 1016.2       | 1018.1         | 24.7        |        | 23.4           |        | 1             | 24    |        | 2        | 281      |          |
| 67297 BEIRA                  | 1948S    | 03454E    | 16        |           | 1017.2       | 1018.1         | 23.8        |        | 23.0           |        | 4             | 43    |        | 2        |          |          |
| 67323 INHAMBANE              | 2352S    | 03523E    | 15        |           | 1016.4       | 1018.0         | 23.7        |        | 21.1           |        | 2             | 61    |        | 1        | 227      | 60       |
| 67341 MAPUTO/MAVALANE        | 2555S    | 03234E    | 44        |           | 1011.3       | 1018.7         |             |        |                |        | 2             | 3     |        | 1        | 203      | 315      |
| <b>MALAWI</b>                |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 67586 LILONGWE INT'L AIRPORT | 1347S    | 03346E    | 1229      |           | 881.7        | 1539 Y         | 21.8        |        | 11.8           |        | 0             | 0     |        | 0        |          |          |
| <b>SOUTH AFRICA</b>          |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>68174 PIETERSBURG</b>     | 2350S    | 02925E    | 1228      |           | 883.2        | 1555 Y         | 19.6        |        | 11.4           |        | 2             | 8     | -9     | 3        | 263      | 95       |
| 68242 MMABATHO               | 2547S    | 02532E    | 1281      |           | 876.8        | 1548 Y         | 19.9        |        | 9.0            |        | 2             | 16    |        |          | 297      |          |
| 68262 PRETORIA               | 2544S    | 02811E    | 1326      |           | 874.4        | 1552 Y         | 20.5        |        | 9.6            |        | 2             | 59    | 39     | 5        | 285      | 100      |
| <b>68424 UPINGTON</b>        | 2825S    | 02116E    | 851       |           | 922.6        | 1542 Y         | 18.1        |        | 4.3            |        | 0             | 0     | -4     | 2        | 312      | 104      |
| <b>68438 KIMBERLEY</b>       | 2848S    | 02446E    | 1204      |           | 884.7        | 1539 Y         | 18.3        |        | 5.3            |        | 0             | 0     | -12    | 1        | 292      | 101      |
| 68442 BLOEMFONTEIN AIRPORT   | 2906S    | 02618E    | 1359      |           | 874.1        | 1590 Y         | 15.2        |        | 5.7            |        | 1             | 7     | -16    | 3        | 278      | 100      |
| 68461 BETHLEHEM              | 2815S    | 02820E    | 1690      |           | 836.1        | 1548 Y         | 13.9        |        | 7.5            |        | 2             | 6     |        | 2        | 254      | 90       |
| 68512 SPRINGBOK              | 2940S    | 01754E    | 1007      |           | 905.7        | 1545 Y         | 15.1        |        | 9.0            |        | 1             | 8     |        | 3        | 304      |          |

# SURFACE

# SEPTEMBER 2009

| STATION                                | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|--|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|  |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 68538 DE AAR                           | 3039S    | 02400E    | 1287      |           | 874.8        | 1530 Y         | 15.4        |        | 4.8            |        | 0             | 0     |        | 1        | 302      |          |
| 68588 DURBAN INTNL. AIRPORT            | 2958S    | 03057E    | 14        |           | 1016.2       | 1017.8         | 18.9        |        | 17.3           |        | 9             | 60    | -13    | 3        | 186      | 108      |
| <b>68618 CALVINIA</b>                  | 3128S    | 01946E    | 975       |           | 909.1        | 1542 Y         | 11.9        |        | 6.9            |        | 1             | 5     |        | 1        | 285      | 100      |
| 68816 CAPE TOWN INTNL. AIRPORT         | 3358S    | 01836E    | 46        |           |              |                | 14.4        |        | 12.2           |        | 10            | 61    | 20     | 5        | 205      | 92       |
| 68828 GEORGE AIRPORT                   | 3401S    | 02223E    | 191       |           |              |                | 13.9        |        | 11.5           |        | 7             | 43    |        |          | 230      | 115      |
| 68842 PORT ELIZABETH                   | 3359S    | 02537E    | 69        |           |              |                | 14.9        |        | 12.9           |        | 6             | 29    | -34    | 2        | 230      | 108      |
| <b>68858 EAST LONDON</b>               | 3302S    | 02750E    | 131       |           |              |                | 16.2        |        | 12.4           |        | 7             | 46    | -34    | 2        | 210      | 102      |
| <b>68906 GOUGH ISLAND</b>              | 4021S    | 00953W    | 54        |           | 1011.4       | 1018.0         | 10.0        |        | 9.3            |        | 19            | 189   | -81    | 4        | 83       | 82       |
| <b>68994 MARION ISLAND</b>             | 4653S    | 03752E    | 22        |           | 1002.4       | 1005.3         | 3.3         |        | 6.1            |        | 21            | 102   | -81    | 0        | 105      | 102      |
| <b>N AMERICA</b>                       |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>USA (ALASKA)</b>                    |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>70026 BARROW/W. POST W. ROGERS</b>  | 7117N    | 15647W    | 12        |           | 1011.7       | 1012.0         | 1.6         | 2.4    | 6.0            |        | 4             | 17    | 2      | 5        |          |          |
| <b>70133 KOTZEBUE, RALPH WIEN</b>      | 6653N    | 16236W    | 5         |           | 1006.8       | 1007.3         | 5.3         | -3     | 7.1            |        | 3             | 15    | -25    | 3        |          |          |
| <b>70200 NOME, AK</b>                  | 6430N    | 16526W    | 6         |           | 1005.7       | 1006.5         | 5.6         | -2     | 7.1            |        | 6             | 25    | -36    | 2        |          |          |
| <b>70219 BETHEL/BETHEL AIRPORT, AK</b> | 6046N    | 16150W    | 44        |           | 999.2        | 1004.9         | 8.1         | .8     | 9.3            |        | 10            | 53    | 2      | 4        |          |          |
| <b>70231 MCGRATH, AK</b>               | 6257N    | 15530W    | 103       |           | 992.3        | 1005.1         | 8.3         | 1.5    | 8.2            |        | 11            | 56    | 6      | 5        |          |          |
| <b>70251 TALKEETNA</b>                 | 6218N    | 15000W    | 109       |           | 991.5        | 1004.9         | 8.9         | 1.1    | 9.2            |        | 9             | 48    | -59    | 1        |          |          |
| <b>70261 FAIRBANKS/INT., AK</b>        | 6448N    | 14750W    | 135       |           | 988.4        | 1005.5         | 9.2         | 1.7    | 8.0            |        | 4             | 14    | -10    | 3        |          |          |
| 70273 ANCHORAGE/INT., AK               | 6109N    | 14950W    | 50        |           | 999.3        | 1004.4         | 9.6         | .5     | 9.1            |        | 4             | 26    | -42    | 2        |          |          |
| <b>70308 ST. PAUL ISLANDS, AK</b>      | 5709N    | 17013W    | 10        |           | 1006.5       | 1007.5         | 6.3         | -7     | 8.7            |        | 7             | 27    | -38    | 2        |          |          |
| <b>70316 COLD BAY, AK</b>              | 5512N    | 16240W    | 31        |           | 1001.0       | 1004.9         | 8.6         | -1     | 10.1           |        | 20            | 83    | -29    | 4        |          |          |
| <b>70326 KING SALMON, AK</b>           | 5840N    | 15630W    | 14        |           | 1000.6       | 1002.5         | 8.4         | .0     | 9.4            |        | 12            | 58    | -11    | 4        |          |          |
| <b>70341 HOMER/MUNICIPAL</b>           | 5938N    | 15130W    | 24        |           | 1001.0       | 1004.0         | 8.7         | .0     | 9.6            |        | 13            | 62    | -21    | 2        |          |          |
| <b>70361 YAKUTAT, AK</b>               | 5931N    | 13940W    | 13        |           | 1006.3       | 1007.7         | 9.0         | .0     | 10.9           |        | 21            | 488   | 15     | 5        |          |          |
| <b>70398 ANNETTE ISLAND, AK</b>        | 5502N    | 13130W    | 35        |           | 1007.8       | 1012.1         | 12.3        | .0     | 12.0           |        | 20            | 333   | 98     | 5        |          |          |
| <b>USA</b>                             |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>72201 KEY WEST/INT., FL</b>         | 2433N    | 08145W    | 5         |           | 1013.5       | 1014.3         | 29.2        | .7     | 29.8           |        | 14            | 135   | -13    | 4        |          |          |
| 72202 MIAMI, FL                        | 2545N    | 08023W    | 5         |           | 1013.5       | 1014.6         | 28.8        | 1.1    | 28.6           |        | 15            | 174   | -19    | 4        |          |          |
| 72203 WEST PALM BEACH/ INT. FL.        | 2641N    | 08006W    | 7         |           | 1013.4       | 1014.2         | 28.0        | .4     | 26.9           |        | 12            | 190   | -26    | 3        |          |          |
| 72205 ORLANDO/JETPORT FL.              | 2826N    | 08119W    | 32        |           | 1011.2       | 1015.0         | 27.5        | .3     | 24.8           |        | 9             | 116   | -36    | 2        |          |          |
| 72206 JACKSONVILLE/INTNL.,             | 3029N    | 08142W    | 11        |           | 1014.4       | 1015.7         | 25.7        | .1     | 25.2           |        | 4             | 165   | -14    | 3        |          |          |
| 72207 SAVANNAH/MUNICIPAL,              | 3208N    | 08112W    | 15        |           | 1014.7       | 1016.5         | 25.0        | .2     | 22.5           |        | 4             | 63    | -50    | 3        |          |          |
| <b>72208 CHARLESTON/MUN., SC.</b>      | 3253N    | 08001W    | 15        |           | 1014.9       | 1016.6         | 24.8        | .1     | 21.8           |        | 3             | 12    | -108   | 1        |          |          |
| <b>72211 TAMPA/INT., FL.</b>           | 2758N    | 08232W    | 8         |           | 1014.4       | 1014.9         | 28.1        | .9     | 27.6           |        | 9             | 133   | -18    | 4        | 313      | 140      |
| 72214 TALLAHASSEE/MUN.,                | 3023N    | 08421W    | 19        |           | 1013.0       | 1015.5         | 26.3        | .6     | 24.2           |        | 10            | 64    | -77    | 3        |          |          |
| 72217 MACON/LEWIS B. WILSON, GA.       | 3242N    | 08339W    | 110       |           | 1003.8       | 1016.7         | 24.0        | -1     | 22.7           |        | 11            | 275   | 205    | 6        |          |          |
| 72218 AUGUSTA/BUSH FIELD,              | 3322N    | 08158W    | 45        |           | 1011.6       | 1016.9         | 24.0        | .4     | 20.2           |        | 6             | 92    | 16     | 5        |          |          |
| 72219 ATLANTA/MUN., GA.                | 3339N    | 08425W    | 315       |           | 980.8        | 1017.2         | 23.0        | .4     | 22.0           |        | 8             | 227   | 141    | 6        |          |          |
| 72223 MOBILE/BATES FIELD,              | 3041N    | 08815W    | 67        |           | 1007.2       | 1015.1         | 26.1        | .6     | 25.0           |        | 13            | 173   | 23     | 5        |          |          |
| 72226 MONTGOMERY/DANNELLY,             | 3218N    | 08624W    | 67        |           | 1008.6       | 1015.8         | 25.0        | .3     | 23.6           |        | 12            | 169   | 66     | 5        |          |          |

# SURFACE

# SEPTEMBER 2009

| STATION                             | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|-------------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                     |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 72231 NEW ORLEANS/MOISANT INT., LA  | 2959N    | 09015W    | 9         |           | 1013.4       | 1014.5         | 27.2        | 1.6    | 25.3           |        | 15            | 234   | 94     | 5        |          |          |
| 72234 MERIDIAN/KEY, MS.             | 3220N    | 08845W    | 94        |           | 1004.2       | 1015.2         | 24.4        |        | 24.3           |        | 15            | 244   |        | 5        |          |          |
| 72235 JACKSON/ALLEN C. THOMPSON FI  | 3219N    | 09004W    | 91        |           | 1003.1       | 1014.8         | 25.1        | .7     | 24.1           |        | 12            | 110   | 20     | 4        |          |          |
| 72240 LAKE CHARLES/MUN.,            | 3007N    | 09312W    | 5         |           | 1013.5       | 1014.7         | 26.0        | .6     | 25.3           |        | 8             | 134   | -10    | 3        |          |          |
| 72242 GALVESTON, TX.                | 2918N    | 09448W    | 16        |           | 1013.9       | 1014.1         | 26.9        | .2     | 26.9           |        | 7             | 133   | -17    | 4        |          |          |
| 72243 HOUSTON/INTERCONTINENTAL, TX  | 2958N    | 09521W    | 33        |           | 1010.2       | 1014.2         | 26.1        | .4     | 25.0           |        | 7             | 119   | -5     | 3        |          |          |
| 72248 SHREVEPORT/REG., LA.          | 3227N    | 09350W    | 85        |           | 1005.2       | 1014.3         | 24.4        | -.4    | 22.8           |        | 8             | 66    | -13    | 3        |          |          |
| 72250 BROWNSVILLE/INT., TX          | 2555N    | 09725W    | 8         |           | 1012.6       | 1013.4         | 27.8        | .1     | 25.9           |        | 11            | 240   | 88     | 5        |          |          |
| 72251 CORPUS CHRISTI/INT.,          | 2746N    | 09730W    | 15        |           | 1012.1       | 1013.7         | 27.4        | .2     | 26.4           |        | 8             | 159   | 19     | 5        |          |          |
| 72253 SAN ANTONIO/INT.,             | 2932N    | 09828W    | 247       |           | 986.2        | 1013.8         | 25.8        | -.5    | 21.2           |        | 10            | 161   | 75     | 5        |          |          |
| 72254 AUSTIN/CTY, TX.               | 3018N    | 09742W    | 193       |           | 991.3        | 1014.2         | 25.6        | -1.2   | 21.4           |        | 7             | 174   | 91     | 5        |          |          |
| 72255 VICTORIA/VICTORIA REGIONAL,   | 2851N    | 09655W    | 36        |           | 1009.8       | 1014.1         | 26.6        | .2     | 25.5           |        | 7             | 164   | 22     | 4        |          |          |
| 72256 WACO, MADISON-COOPER,         | 3137N    | 09713W    | 157       |           | 996.2        | 1014.4         | 25.2        | -.7    | 20.8           |        | 9             | 209   | 120    | 6        |          |          |
| 72259 DALLAS-FORT WORTH/FORT WORTH  | 3254N    | 09702W    | 182       |           |              | 1014.3         | 9.8         | -15.4  | 10.3           |        | 8             | 38    | -48    | 3        |          |          |
| 72263 SAN ANGELO/MATHIS,            | 3122N    | 10030W    | 584       |           | 949.2        | 1015.1         | 23.6        | -.5    | 18.8           |        | 8             | 144   | 58     | 5        |          |          |
| 72265 MIDLAND/MIDLAND REG. AIR TER  | 3156N    | 10210W    | 875       |           | 917.4        | 1014.6         | 22.5        | -.4    | 14.9           |        | 6             | 65    | -1     | 5        |          |          |
| 72266 ABILENE/MUN., TX.             | 3225N    | 09941W    | 546       |           | 953.2        | 1015.4         | 22.6        | -1.8   | 17.3           |        | 8             | 90    | 9      | 5        |          |          |
| 72267 LUBBOCK/LUBBOCK INTERNATIONAL | 3339N    | 10140W    | 996       |           | 905.2        | 1015.1         | 21.3        | -.4    | 14.0           |        | 5             | 63    | -3     | 5        |          |          |
| 72270 EL PASO/INT., TX.             | 3148N    | 10620W    | 1206      |           | 882.9        | 1012.5         | 24.2        | .6     | 12.5           |        | 7             | 64    | 21     | 5        |          |          |
| 72274 TUCSON/INT., AZ.              | 3207N    | 11050W    | 788       |           | 924.7        | 1010.4         | 28.8        | 1.9    | 11.4           |        | 3             | 20    | -22    | 4        |          |          |
| 72278 PHOENIX/SKY HARBOR,           | 3326N    | 11200W    | 344       |           | 970.8        | 1008.7         | 32.2        | 2.4    | 11.7           |        | 1             | 4     | -17    | 3        |          |          |
| 72290 SAN DIEGO/LINDBERGH,          | 3244N    | 11710W    | 9         |           | 1011.6       | 1012.7         | 22.3        | .4     | 19.3           |        | 0             | 0     | -6     | 3        |          |          |
| 72295 LOS ANGELES /INT.,            | 3356N    | 11820W    | 38        |           |              | 1012.2         | 21.1        | .0     | 18.2           |        | 0             | 0     | -7     | 3        |          |          |
| 72304 CAPE HATTERAS, NC.            | 3516N    | 07533W    | 3         |           | 1016.4       | 1016.8         | 23.6        | .2     | 22.0           |        | 8             | 337   | 204    | 6        |          |          |
| 72306 RALEIGH/RALEIGH-DURHAM, NC.   | 3552N    | 07847W    | 134       |           | 1002.3       | 1018.0         | 21.6        | -.1    | 17.6           |        | 8             | 85    | 4      | 4        |          |          |
| 72308 NORFOLK/INT., VA.             | 3654N    | 07612W    | 9         |           | 1016.4       | 1017.5         | 21.7        | -.5    | 19.7           |        | 8             | 197   | 98     | 5        |          |          |
| 72310 COLUMBIA, SC.                 | 3357N    | 08107W    | 72        |           | 1009.0       | 1017.1         | 24.1        | .7     | 19.2           |        | 8             | 143   | 50     | 5        |          |          |
| 72312 GREENVILLE/GREENVILLE SPARTA  | 3454N    | 08213W    | 296       |           | 983.1        | 1017.4         | 22.1        | .3     | 18.8           |        | 7             | 140   | 40     | 4        |          |          |
| 72314 CHARLOTTE/DOUGLAS,            | 3513N    | 08056W    | 234       |           | 990.7        | 1018.0         | 22.0        | -.4    | 18.7           |        | 7             | 43    | -45    | 3        |          |          |
| 72315 ASHEVILLE/MUN., NC.           | 3526N    | 08233W    | 661       |           | 943.0        | 1018.5         | 19.4        | .4     | 17.4           |        | 11            | 208   | 110    | 5        |          |          |
| 72317 GREENSBORO/G.-HIGH PT., NC.   | 3605N    | 07957W    | 277       |           | 986.9        | 1018.4         | 21.1        | .2     | 17.4           |        | 8             | 103   | 14     | 5        |          |          |
| 72324 CHATTANOOGA/LOVELL FIELD, TN  | 3502N    | 08512W    | 210       |           | 992.8        | 1017.2         | 22.9        | .5     | 21.0           |        | 10            | 314   | 209    | 5        |          |          |
| 72326 KNOXVILLE/MUN., TN.           | 3549N    | 08359W    | 299       |           | 982.3        | 1017.0         | 22.1        | .9     | 20.0           |        | 9             | 118   | 40     | 5        |          |          |
| 72327 NASHVILLE/METROPOLITAN, TN.   | 3607N    | 08641W    | 180       |           | 995.2        | 1016.8         | 22.4        | .3     | 20.5           |        | 12            | 281   | 194    | 5        |          |          |
| 72340 LITTLE ROCK/ADAMS FLD,        | 3450N    | 09216W    | 173       |           | 1006.3       | 1015.9         | 23.2        |        | 21.4           |        | 10            | 164   |        | 5        |          |          |
| 72344 FORT SMITH/MUN., AR.          | 3520N    | 09422W    | 143       |           | 999.1        | 1015.7         | 22.5        | -.6    | 19.4           |        | 10            | 184   | 102    | 5        |          |          |
| 72351 WICHITA FALLS/SHEPS AFB/WICH  | 3358N    | 09829W    | 314       |           | 978.6        | 1014.8         | 23.3        | -.8    | 17.7           |        | 7             | 104   | 7      | 5        |          |          |
| 72353 OKLAHOMA CITY/W. ROGERS WORL  | 3523N    | 09736W    | 398       |           | 969.6        | 1015.7         | 21.5        | -1.3   | 18.1           |        | 9             | 117   | 20     | 5        |          |          |
| 72360 CLAYTON/MUN., NM.             | 3627N    | 10300W    | 1515      |           | 850.8        | 1016.1         | 18.9        | .7     | 10.0           |        | 3             | 20    | -25    | 2        |          |          |
| 72365 ALBUQUERQUE/INT., NM.         | 3502N    | 10630W    | 1619      |           | 840.7        | 1014.7         | 20.2        | -.1    | 9.6            |        | 4             | 36    | 11     | 5        |          |          |
| 72386 LAS VEGAS/MCCARRAN,           | 3605N    | 11510W    | 664       |           | 934.7        | 1009.1         | 30.1        | 3.2    | 7.4            |        | 0             | 0     | -7     | 2        |          |          |
| 72389 FRESNO/AIR TERM.,             | 3646N    | 11940W    | 101       |           | 1000.2       | 1011.8         | 26.5        | 2.9    | 12.5           |        | 0             | 0     | -6     | 3        |          |          |
| 72401 RICHMOND/BYRD, VA.            | 3730N    | 07720W    | 54        |           | 1012.3       | 1018.8         | 21.1        | .0     | 17.0           |        | 8             | 63    | -21    | 4        |          |          |
| 72405 WASHINGTON/NAT., VA.          | 3851N    | 07702W    | 20        |           | 1016.5       | 1018.9         | 21.2        | -.6    | 15.7           |        | 7             | 84    | 0      | 5        |          |          |
| 72406 BALTIMORE/BALTIMORE-WASHINGT  | 3911N    | 07640W    | 48        |           | 1012.8       | 1018.5         | 19.2        | -1.1   | 16.2           |        | 6             | 89    | 3      | 5        |          |          |
| 72407 ATLANTIC CITY, NJ.            | 3927N    | 07434W    | 21        |           | 1016.0       | 1018.6         | 19.1        | .2     | 16.9           |        | 9             | 176   | 102    | 6        |          |          |

# SURFACE

# SEPTEMBER 2009

| STATION                                   | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|---|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|   |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 72408 PHILADELPHIA/INT.,                  | 3953N    | 07515W    | 9         |           | 1017.4       | 1018.6         | 20.0        | -1     | 15.4           |        | 7             | 93    | 7      | 5        |          |          |
| 72411 ROANOKE/MUN., VA.                   | 3719N    | 07958W    | 358       |           | 977.6        | 1019.4         | 20.4        | .6     | 15.9           |        | 6             | 80    | -8     | 4        |          |          |
| 72412 BECKLEY (RALEIGH CTY. MEMORI        | 3747N    | 08107W    | 766       |           | 931.5        | 1018.9         | 17.1        | .0     | 15.4           |        | 6             | 62    | -22    | 2        |          |          |
| 72414 CHARLESTON/KANAWHA.,                | 3822N    | 08136W    | 299       |           | 983.2        | 1018.2         | 20.0        | .2     | 17.5           |        | 6             | 112   | 30     | 5        |          |          |
| 72421 CINCINNATI/GREATER CINCINNAT        | 3903N    | 08440W    | 271       |           | 986.3        | 1017.8         | 19.9        | .3     | 16.4           |        | 9             | 123   | 50     | 5        |          |          |
| <b>72422 LEXINGTON/BLUE GRASS, KY.</b>    | 3802N    | 08436W    | 301       |           | 982.5        | 1017.8         | 20.3        |        | 17.5           |        | 9             | 150   | 5      | 5        |          |          |
| 72423 LOUISVILLE/STANDIFORD, KY.          | 3811N    | 08544W    | 151       |           | 1000.0       | 1017.4         | 21.7        | .9     | 18.0           |        | 9             | 145   | 65     | 5        |          |          |
| 72425 HUNTINGTON, WV.                     | 3822N    | 08233W    | 255       |           | 987.9        | 1017.9         | 19.9        | .1     | 17.7           |        | 7             | 83    | 9      | 4        |          |          |
| 72428 COLUMBUS/PORT COLUMBUS, OH.         | 4000N    | 08253W    | 254       |           | 988.8        | 1018.2         | 19.3        | .7     | 15.4           |        | 11            | 63    | -12    | 4        |          |          |
| 72429 DAYTON/ COX, OH.                    | 3952N    | 08407W    | 307       |           | 982.8        | 1018.9         | 18.4        | -.4    | 15.1           |        | 10            | 68    | 4      | 5        |          |          |
| <b>72432 EVANSVILLE/REG., IN.</b>         | 3803N    | 08732W    | 127       |           | 1003.2       | 1017.3         | 21.1        | .4     | 18.4           |        | 10            | 131   | 56     | 5        |          |          |
| 72434 ST. LOUIS/LAMBERT,                  | 3845N    | 09022W    | 174       |           | 992.1        | 1017.2         | 21.0        | -.2    | 16.6           |        | 5             | 80    | 1      | 5        |          |          |
| 72438 INDIANAPOLIS/I.-MUN/WEIR COO        | 3944N    | 08616W    | 246       |           | 988.6        | 1017.6         | 20.3        | 1.1    | 15.1           |        | 7             | 47    | -25    | 3        |          |          |
| 72439 SPRINGFIELD/CAPITAL,                | 3951N    | 08940W    | 187       |           | 996.0        | 1018.3         | 19.2        | -.4    | 16.1           |        | 4             | 55    | -29    | 4        |          |          |
| <b>72445 COLUMBIA/REGIONAL,</b>           | 3849N    | 09213W    | 274       |           | 985.5        | 1017.9         | 19.2        | -.7    | 16.7           |        | 5             | 90    | -8     | 5        |          |          |
| <b>72451 DODGE CITY/MUN., KS.</b>         | 3745N    | 09958W    | 790       |           | 926.8        | 1017.0         | 18.8        | -1.8   | 14.2           |        | 3             | 64    | 16     | 5        |          |          |
| <b>72458 CONCORDIA/BLOSSER MUN., KS.</b>  | 3933N    | 09739W    | 453       |           | 964.8        | 1017.7         | 18.7        | -1.0   | 15.6           |        | 5             | 97    | 21     | 5        |          |          |
| <b>72476 GRAND JUNCTION/WALKER FIELD,</b> | 3907N    | 10830W    | 1474      |           | 853.7        | 1013.9         | 19.8        | .4     | 8.6            |        | 4             | 11    | -9     | 4        |          |          |
| <b>72483 SACRAMENTO/EXECUTIVE CA.</b>     | 3831N    | 12130W    | 8         |           | 1011.2       | 1012.1         | 23.8        | 1.9    | 12.8           |        | 2             | 4     | -5     | 5        |          |          |
| <b>72486 ELY/YELLAND, NV.</b>             | 3917N    | 11450W    | 1909      |           | 811.6        | 1014.5         | 14.9        | 1.4    | 5.5            |        | 3             | 9     | -16    | 4        |          |          |
| 72488 RENO/INT., NV.                      | 3930N    | 11940W    | 1344      |           | 867.4        | 1014.4         | 20.9        | 5.1    | 5.6            |        | 0             | 0     | -9     | 1        |          |          |
| 72494 SAN FRANCISCO/INT.,                 | 3737N    | 12220W    | 6         |           | 1013.3       | 1013.9         | 19.0        | .9     | 15.5           |        | 1             | 7     | 2      | 5        |          |          |
| 72503 NEW YORK/LA GUARDIA,                | 4046N    | 07354W    | 9         |           | 1013.7       | 1018.7         | 19.1        | -1.0   | 15.1           |        | 4             | 58    | -28    | 3        |          |          |
| 72507 PROVIDENCE/GREEN STATE, RI.         | 4144N    | 07126W    | 19        |           | 1016.6       | 1019.0         | 17.2        | -.6    | 14.1           |        | 6             | 58    | -30    | 3        |          |          |
| 72508 HARTFORD/BRADLEY INTNL., CT.        | 4156N    | 07241W    | 55        |           | 1012.2       | 1018.8         | 16.7        | -.7    | 13.5           |        | 4             | 45    | -51    | 2        |          |          |
| 72509 BOSTON/LOGAN INT.,                  | 4222N    | 07102W    | 9         |           | 1017.6       | 1018.8         | 17.3        | -.9    | 13.6           |        | 5             | 79    | 2      | 4        |          |          |
| 72513 WILKES-BARRE-SCRANTON, PA.          | 4120N    | 07544W    | 292       |           | 984.4        | 1018.7         | 16.0        | -1.0   | 13.7           |        | 7             | 57    | -27    | 2        |          |          |
| 72515 BINGHAMTON/BROOME CO., NY.          | 4213N    | 07559W    | 497       |           | 961.2        | 1020.0         | 14.8        | -.5    | 13.4           |        | 8             | 67    | -17    | 3        |          |          |
| 72517 ALLENTOWN/A.-BETHLEHEM-EASTO        | 4039N    | 07526W    | 118       |           | 1004.9       | 1019.0         | 17.0        | -1.2   | 15.3           |        | 7             | 75    | -24    | 3        |          |          |
| <b>72519 SYRACUSE/HANCOCK,</b>            | 4307N    | 07607W    | 128       |           | 1004.3       | 1018.8         | 16.5        | .1     | 13.5           |        | 7             | 50    | -46    | 3        |          |          |
| <b>72520 PITTSBURGH/GREATER PITTSBURG</b> | 4030N    | 08013W    | 373       |           | 975.4        | 1019.3         | 18.3        | .6     | 14.4           |        | 7             | 39    | -36    | 2        |          |          |
| 72521 AKRON/AKRON-CANTON REG. OH.         | 4055N    | 08126W    | 377       |           | 974.5        | 1018.9         | 17.6        | .0     | 15.4           |        | 7             | 52    | -32    | 3        |          |          |
| 72525 YOUNGSTOWN, OH.                     | 4116N    | 08040W    | 365       |           | 976.4        | 1019.0         | 17.5        | .7     | 14.1           |        | 8             | 55    | -33    | 3        |          |          |
| 72528 BUFFALO/GREATER BUFFALO INT.        | 4256N    | 07843W    | 219       |           | 993.2        | 1019.0         | 16.9        | .3     | 14.5           |        | 5             | 144   | 56     | 5        |          |          |
| 72529 ROCHESTER/ROCHESTER-MONROE C        | 4307N    | 07740W    | 171       |           | 998.9        | 1019.3         | 16.0        | -.5    | 14.6           |        | 5             | 52    | -23    | 4        |          |          |
| 72530 CHICAGO/O'HARE, IL.                 | 4159N    | 08754W    | 205       |           | 994.5        | 1019.0         | 18.5        | .5     | 14.4           |        | 3             | 26    | -71    | 3        |          |          |
| <b>72532 PEORIA/GREATER PEORIA MUN.,</b>  | 4040N    | 08941W    | 202       |           | 994.6        | 1018.6         | 19.0        | .1     | 15.9           |        | 5             | 90    | -8     | 5        |          |          |
| 72533 FORT WAYNE/MUN.,                    | 4100N    | 08512W    | 252       |           | 989.3        | 1019.1         | 18.2        | -.1    | 15.9           |        | 6             | 36    | -31    | 3        |          |          |
| 72535 SOUTH BEND/ST. JOSEPH CO., IN       | 4142N    | 08619W    | 241       |           | 991.2        | 1019.2         | 17.7        | .0     | 15.0           |        | 4             | 12    | -79    | 2        |          |          |
| 72536 TOLEDO/EXPRESS, OH.                 | 4136N    | 08348W    | 211       |           | 993.7        | 1018.8         | 18.3        | 1.1    | 15.1           |        | 6             | 75    | 3      | 4        |          |          |
| 72537 DETROIT/METROPOLITAN, MI.           | 4214N    | 08320W    | 202       |           | 996.3        | 1019.0         | 18.7        | 1.4    | 14.8           |        | 3             | 30    | -43    | 2        |          |          |
| 72544 MOLINE/QUAD CITY,                   | 4127N    | 09031W    | 181       |           | 997.2        | 1018.9         | 18.0        | -.2    | 16.1           |        | 3             | 35    | -67    | 3        |          |          |
| <b>72546 DES MOINES/MUN., IA.</b>         | 4132N    | 09339W    | 294       |           | 983.8        | 1018.6         | 19.6        | 1.2    | 14.8           |        | 3             | 31    | -58    | 3        |          |          |
| <b>72556 NORFOLK/KARL STEFAN,</b>         | 4159N    | 09726W    | 479       |           | 962.6        | 1018.3         | 17.2        | -.1    | 14.8           |        | 6             | 63    | 1      | 5        |          |          |
| 72557 SIOUX CITY/MUN., IA.                | 4224N    | 09623W    | 336       |           | 979.0        | 1019.1         | 17.9        | .5     | 15.6           |        | 4             | 117   | 44     | 5        |          |          |
| <b>72562 NORTH PLATTE/LEE BIRD, NE.</b>   | 4107N    | 10040W    | 849       |           | 920.4        | 1018.0         | 15.9        | -.4    | 13.0           |        | 4             | 30    | -10    | 4        |          |          |



# SURFACE

# SEPTEMBER 2009

| STATION                                   | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|---|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|   |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 72564 CHEYENNE, WY.                       | 4109N    | 10440W    | 1876      |           | 815.0        | 1016.0         | 14.8        |        | 6.9            |        | 5             | 29    |        | 5        |          |          |
| 72569 CASPER/NATRONA COUNTY, INTNL        | 4255N    | 10620W    | 1630      |           | 839.9        | 1015.8         | 15.2        | .9     | 7.0            |        | 4             | 41    | 18     | 5        |          |          |
| 72572 SALT LAKE CITY/INTNL UT.            | 4047N    | 11150W    | 1288      |           | 872.0        | 1013.3         | 21.4        | 3.0    | 8.4            |        | 2             | 30    | -2     | 5        |          |          |
| <b>72576 LANDER/HUNT, WY.</b>             | 4249N    | 10840W    | 1703      |           | 831.4        | 1014.7         | 17.0        | 2.4    | 6.6            |        | 4             | 18    | -9     | 4        |          |          |
| <b>72578 POCATELLO/MUN., ID.</b>          | 4255N    | 11230W    | 1365      |           | 864.9        | 1015.6         | 16.8        | 1.8    | 8.2            |        | 2             | 25    | 4      | 5        |          |          |
| <b>72583 WINNEMUCCA/MUN., NV.</b>         | 4054N    | 11740W    | 1322      |           | 869.7        | 1014.8         | 18.0        | 2.7    | 5.3            |        |               | 3     | -7     | 4        |          |          |
| 72597 MEDFORD/MEDFORD-JACKSON COUN        | 4223N    | 12250W    | 398       |           | 968.0        | 1015.2         | 20.8        |        | 26.1           |        | 1             | 2     |        | 2        |          |          |
| 72605 CONCORD/MUN., NH.                   | 4312N    | 07130W    | 105       |           | 1006.2       | 1019.1         | 14.3        |        | 12.2           |        | 4             | 23    |        | 2        |          |          |
| 72606 PORTLAND/INTNL. JET PORT, ME        | 4339N    | 07019W    | 23        |           | 1016.3       | 1018.7         | 15.0        | -1     | 13.3           |        | 4             | 35    | -43    | 2        |          |          |
| <b>72613 MOUNT WASHINGTON,</b>            | 4416N    | 07118W    | 1910      |           |              |                |             |        |                |        |               | 91    | -96    | 1        |          |          |
| <b>72617 BURLINGTON/INT., VT.</b>         | 4428N    | 07309W    | 104       |           | 1006.2       | 1018.9         | 15.1        | .2     | 12.2           |        | 7             | 93    | 10     | 5        |          |          |
| 72635 GRAND RAPIDS/KENT CO., MI.          | 4253N    | 08531W    | 245       |           | 990.3        | 1019.5         | 17.5        | 1.4    | 14.7           |        | 5             | 38    | -69    | 1        |          |          |
| 72636 MUSKEGON/COUNTY, MI.                | 4310N    | 08615W    | 193       |           | 996.3        | 1019.4         | 17.4        | 1.2    | 14.5           |        | 4             | 69    | -29    | 4        |          |          |
| 72637 FLINT/BISHOP, MI.                   | 4258N    | 08345W    | 238       |           | 991.4        | 1019.3         | 16.6        | .3     | 14.5           |        | 5             | 30    | -60    | 3        |          |          |
| 72640 MILWAUKEE/GEN. MITCHELL, WI.        | 4257N    | 08754W    | 220       |           | 994.1        | 1019.4         | 17.7        | 1.2    | 14.9           |        | 6             | 40    | -45    | 3        |          |          |
| 72641 MADISON/DANE COUNTY REGIONAL        | 4308N    | 08920W    | 264       |           | 987.9        | 1019.3         | 16.9        | 1.5    | 14.1           |        | 5             | 119   | 34     | 5        |          |          |
| 72644 ROCHESTER/MUN., MN.                 | 4355N    | 09230W    | 402       |           | 972.1        | 1019.9         | 17.0        | 1.9    | 15.0           |        | 4             | 33    | -55    | 2        |          |          |
| 72645 GREEN BAY/A.-STRAUBEL, WI.          | 4429N    | 08806W    | 209       |           | 993.8        | 1019.6         | 16.3        | 1.3    | 13.7           |        | 5             | 31    | -57    | 2        |          |          |
| 72651 SIOUX FALLS/FOSS FIELD, SD.         | 4335N    | 09644W    | 435       |           | 967.1        | 1018.5         | 17.5        | 1.4    | 15.3           |        | 5             | 31    | -45    | 3        | 439      | 115      |
| <b>72654 HURON/HURON REGIONAL SD.</b>     | 4423N    | 09813W    | 393       |           | 970.8        | 1017.3         | 17.8        | 1.8    | 15.0           |        | 8             | 69    | 26     | 5        |          |          |
| <b>72658 MINNEAPOLIS/ST.PAUL INT., MN</b> | 4453N    | 09313W    | 256       |           | 988.3        | 1018.8         | 19.2        | 3.4    | 14.2           |        | 2             | 12    | -57    | 2        |          |          |
| 72662 RAPID CITY/REGIONAL AIRPORT,        | 4440N    | 10310W    | 1030      |           | 906.1        | 1016.2         | 17.0        | 1.4    | 10.7           |        | 4             | 49    | 18     | 5        |          |          |
| <b>72666 SHERIDAN/COUNTY, WY.</b>         | 4446N    | 10650W    | 1226      |           | 880.1        | 1015.6         | 16.8        | 2.9    | 8.1            |        | 4             | 15    | -19    | 3        |          |          |
| 72677 BILLINGS/LOGAN INT.,                | 4548N    | 10830W    | 1099      |           | 892.7        | 1014.9         | 19.3        | 4.2    | 8.0            |        | 3             | 17    | -17    | 3        |          |          |
| <b>72681 BOISE/MUN., ID.</b>              | 4334N    | 11610W    | 872       |           | 915.3        | 1013.8         | 21.4        | 4.4    | 7.0            |        | 0             | 0     | -20    | 1        |          |          |
| <b>72688 PENDLETON, OR.</b>               | 4541N    | 11850W    | 456       |           | 961.7        | 1014.8         | 18.3        | 1.0    | 8.7            |        | 01            | 1     | -14    | 2        |          |          |
| 72698 PORTLAND/INT., OR.                  | 4536N    | 12230W    | 12        |           | 1012.8       | 1016.5         | 19.0        | 1.6    | 13.1           |        | 7             | 64    | 20     | 5        |          |          |
| <b>72712 CARIBOU/MUN., ME.</b>            | 4652N    | 06800W    | 191       |           | 993.7        | 1017.1         | 12.6        | .5     | 10.8           |        | 9             | 49    | -38    | 2        |          |          |
| <b>72743 MARQUETTE, MI.</b>               | 4632N    | 08733W    | 434       |           |              |                | 15.3        | 3.1    |                |        | 3             | 47    | -56    | 2        |          |          |
| 72745 DULUTH/INT., MN.                    | 4650N    | 09211W    | 436       |           | 967.8        | 1019.3         | 16.7        | 4.4    | 14.6           |        | 4             | 35    | -62    | 2        |          |          |
| 72747 INT.FALLS/FALLS INT. MN.            | 4833N    | 09323W    | 362       |           | 975.1        | 1018.2         | 15.4        | 3.5    | 14.7           |        | 6             | 48    | -32    | 3        |          |          |
| 72753 FARGO/HECTOR FIELD,                 | 4654N    | 09648W    | 274       |           | 984.2        | 1017.1         | 18.4        | 4.1    | 14.6           |        | 4             | 52    | 2      | 5        |          |          |
| <b>72764 BISMARCK/MUN., ND.</b>           | 4646N    | 10040W    | 505       |           | 956.8        | 1016.3         | 18.3        | 4.4    | 13.2           |        | 4             | 32    | -5     | 4        |          |          |
| 72767 WILLISTON/SLOULIN FIELD INT.        | 4811N    | 10330W    | 592       |           | 947.1        | 1015.0         | 18.0        | 4.5    | 12.0           |        | 3             | 10    | -23    | 3        | 305      | 122      |
| <b>72768 GLASGOW/INT., MT.</b>            | 4812N    | 10630W    | 693       |           | 933.7        | 1014.6         | 18.7        | 4.6    | 9.0            |        | 2             | 10    | -15    | 3        |          |          |
| <b>72772 HELENA/COUNTY-CITY,</b>          | 4636N    | 11200W    | 1188      |           | 883.4        | 1017.0         | 17.8        | 4.8    | 7.7            |        | 2             | 25    | -4     | 5        |          |          |
| 72773 MISSOULA / JOHNSON-BELL FIEL        | 4655N    | 11400W    | 976       |           | 906.0        | 1016.8         | 16.7        | 3.5    | 8.4            |        | 2             | 7     | -21    | 2        |          |          |
| 72781 YAKIMA/YAKIMA AIR TERMINAL,         | 4634N    | 12030W    | 332       |           | 977.3        | 1015.5         | 16.8        | .9     | 9.7            |        | 3             | 11    | 1      | 5        |          |          |
| 72785 SPOKANE/INT., WA.                   | 4738N    | 11730W    | 721       |           | 932.6        | 1015.5         | 17.7        | 2.8    | 9.2            |        | 2             | 13    | -5     | 4        |          |          |
| <b>72792 OLYMPIA, WA.</b>                 | 4658N    | 12250W    | 62        |           | 1009.6       | 1016.8         | 15.3        | .9     | 13.3           |        | 5             | 63    | 6      | 5        |          |          |
| 72793 SEATTLE/S.-TACOMA,                  | 4727N    | 12210W    | 137       |           | 1001.2       | 1017.5         | 16.9        | 1.0    | 13.2           |        | 5             | 45    | -2     | 4        |          |          |
| 72797 QUILLAYUTE, WA.                     | 4757N    | 12430W    | 56        |           | 1009.0       | 1016.5         | 14.5        |        | 13.6           |        | 12            | 147   |        | 4        |          |          |
| <b>74492 BLUE HILL OBS. MA.</b>           | 4213N    | 07107W    | 195       |           |              |                |             |        |                |        |               | 75    | -22    | 4        |          |          |
| 74745 AUSTIN-BERGSTROM INTL AIRPOR        | 3011N    | 09741W    | 202       |           | 996.8        | 1014.1         | 25.2        |        | 31.8           |        | 9             | 177   |        |          |          |          |

CANADA

# SURFACE

# SEPTEMBER 2009

| STATION                               | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|---------------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                       |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 71017 STEFANSSON ISLAND, NU           | 7345N    | 10510W    | 11        |           | 1009.8       | 1011.3         | -3.0        |        | 4.6            |        | 1             | 1     |        |          |          |          |
| 71018 RESOLUTE CS, NU                 | 7442N    | 09459W    | 68        |           |              |                | -3.5        |        | 4.4            |        | 1             | 7     |        |          |          |          |
| 71026 MEDICINE HAT RCS, ALTA          | 5001N    | 11040W    | 717       |           | 930.7        | 1013.8         | 17.6        |        | 8.2            |        | 2             | 17    |        | 2        |          |          |
| 71029 HOLMAN CS, NWT                  | 7045N    | 11740W    | 30        |           | 1007.5       | 1011.4         | 1.6         |        | 6.0            |        | 5             | 14    |        |          |          |          |
| 71049 WAGER BAY (AUT), MAN            | 6552N    | 08926W    | 18        |           | 1010.5       | 1014.0         | 3.2         |        | 6.1            |        | 2             | 17    |        |          |          |          |
| <b>71066 HIGH LEVEL A, ALTA</b>       | 5837N    | 11700W    | 338       |           | 969.3        | 1010.1         | 12.3        | 4.1    | 9.9            |        | 6             | 50    | 16     | 5        |          |          |
| <b>71069 SLAVE LAKE A, ALTA</b>       | 5517N    | 11440W    | 583       |           | 943.6        | 1012.5         | 12.9        | 3.7    | 11.4           |        | 10            | 46    | -2     | 3        |          |          |
| <b>71079 THOMPSON</b>                 | 5548N    | 09752W    | 222       |           | 987.2        | 1014.5         | 11.9        | 4.7    | 11.5           |        | 10            | 44    | -19    | 2        |          |          |
| 71101 SANDSPIT AWOS, BC               | 5315N    | 13140W    | 6         |           | 1010.9       | 1011.7         | 12.5        | -5     | 12.3           |        |               |       |        |          |          |          |
| 71109 PORT HARDY A, BC                | 5040N    | 12720W    | 22        |           | 1013.5       | 1016.1         | 13.3        | 1.5    | 12.4           |        | 16            | 168   | 37     | 4        |          |          |
| <b>71120 COLD LAKE A, ALTA</b>        | 5425N    | 11010W    | 541       |           | 949.2        | 1013.4         | 15.1        | 5.3    | 10.6           |        | 3             | 9     | -32    | 0        |          |          |
| <b>71122 BANFF CS, ALTA</b>           | 5112N    | 11530W    | 1397      |           | 859.2        | 1016.0         | 12.2        | 2.8    | 6.9            |        | 4             | 14    | -29    | 1        |          |          |
| 71158 BERENS RIVER CS, MAN            | 5221N    | 09702W    | 222       |           | 988.1        | 1014.9         | 15.8        |        | 14.2           |        | 1             | 16    |        | 0        |          |          |
| <b>71160 FORT RELIANCE (AUT), NWT</b> | 6242N    | 10900W    | 168       |           | 989.5        | 1010.2         | 10.6        |        | 9.6            |        | 6             | 15    |        | 1        |          |          |
| <b>71197 PORT AUX BASQUES,</b>        | 4734N    | 05909W    | 40        |           | 1011.2       | 1016.0         | 11.7        | .2     |                |        | 7             | 102   | -13    | 2        |          |          |
| 71199 WATSON LAKE (AUT), YT           | 6007N    | 12840W    | 690       |           | 929.8        | 1011.6         | 8.7         |        | 8.6            |        | 12            | 59    |        | 5        |          |          |
| 71279 SEPT-ILES, QUE                  | 5013N    | 06615W    | 53        |           | 1007.9       | 1014.4         | 9.1         |        | 9.8            |        | 10            | 97    |        |          |          |          |
| 71288 CAMBRIDGE BAY GSN, NU           | 6906N    | 10500W    | 19        |           | 1008.9       | 1011.3         | 1.7         |        | 6.4            |        | 6             | 47    |        |          |          |          |
| 71309 MOOSONEE RCS, ONT               | 5117N    | 08037W    | 9         |           | 1015.2       | 1016.3         | 12.4        |        | 11.8           |        | 10            | 103   |        |          |          |          |
| 71320 HALL BEACH CLIMATE, NU          | 6846N    | 08114W    | 8         |           | 1007.5       | 1007.7         | .1          |        | 5.6            |        | 3             | 27    |        |          |          |          |
| 71321 IQALUIT CLIMATE, NU             | 6345N    | 06833W    | 34        |           | 1005.0       | 1009.2         | 2.0         |        | 6.0            |        | 6             | 36    |        |          |          |          |
| 71322 ARVIAT CLIMATE, NU              | 6106N    | 09404W    | 10        |           | 1011.9       | 1013.2         | 7.0         |        | 8.4            |        | 8             | 29    |        |          |          |          |
| 71350 HARRINGTON CDA CS, PEI          | 4621N    | 06310W    | 53        |           | 1011.8       | 1018.3         | 13.6        |        | 11.8           |        | 6             | 61    |        |          |          |          |
| 71355 ALERT CLIMATE, NU               | 8230N    | 06220W    | 65        |           | 1000.0       | 1008.6         | -6.2        |        | 3.6            |        | 5             | 14    |        |          |          |          |
| 71356 BAKER LAKE CLIMATE, NU          | 6419N    | 09600W    | 51        |           | 1005.6       | 1012.1         | 5.1         |        | 7.5            |        | 5             | 50    |        |          |          |          |
| 71358 CLYDE RIVER CLIMATE, NU         | 7029N    | 06831W    | 27        |           | 1002.3       | 1005.7         | -3          |        | 5.3            |        | 1             | 1     |        |          |          |          |
| 71361 HAY RIVER CLIMATE, NWT          | 6050N    | 11540W    | 164       |           | 988.5        | 1008.6         | 12.0        |        | 10.5           |        | 7             | 35    |        |          |          |          |
| 71362 FORT SMITH CLIMATE, NWT         | 6001N    | 11150W    | 203       |           | 984.7        | 1009.4         | 11.9        |        | 10.8           |        | 8             | 29    |        |          |          |          |
| 71363 GJOA HAVEN CLIMATE, NU          | 6838N    | 09551W    | 42        |           | 1005.2       | 1010.5         | 1.1         |        | 6.2            |        | 11            | 43    |        |          |          |          |
| 71364 INUVIK CLIMATE, NWT             | 6819N    | 13330W    | 103       |           | 997.2        | 1010.2         | 4.6         |        | 6.8            |        | 10            | 53    |        |          |          |          |
| 71365 FORT SIMPSON CLIMATE, NWT       | 6145N    | 12110W    | 168       |           | 988.5        | 1009.1         | 10.5        |        | 9.2            |        | 10            | 101   |        |          |          |          |
| 71407 RESERVED OR UNKNOWN             | 9999N    | 99999E    |           |           | 1008.5       | 1010.5         | 1.2         |        | 5.7            |        | 8             | 33    |        |          |          |          |
| 71434 PEAWANUCK (AUT), ONT            | 5459N    | 08526W    | 52        |           | 1009.0       | 1015.0         | 10.8        |        | 10.2           |        | 5             | 30    |        |          |          |          |
| 71446 SWIFT CURRENT CDA, SASK         | 5016N    | 10740W    | 825       |           | 919.1        | 1015.1         | 17.0        |        | 8.3            |        | 5             | 16    |        | 3        |          |          |
| 71467 SACHS HARBOUR CLIMATE, NWT      | 7200N    | 12510W    | 88        |           | 999.9        | 1011.2         | -6          |        | 5.4            |        | 7             | 24    |        |          |          |          |
| 71480 RESERVED OR UNKNOWN             | 9999N    | 99999E    |           |           | 997.2        | 1009.0         | 7.2         |        | 7.8            |        | 4             | 9     |        |          |          |          |
| 71490 ROBERTSON LAKE (AUT), NU        | 6505N    | 10220W    | 244       |           | 983.2        | 1013.8         | 4.5         |        | 7.3            |        | 8             | 35    |        |          |          |          |
| 71493 PARRSBORO, NS                   | 4524N    | 06420W    | 31        |           | 1013.5       | 1017.3         | 12.0        |        | 12.0           |        | 7             | 65    |        |          |          |          |
| 71550 DAUPHIN CS, MAN                 | 5106N    | 10000W    | 305       |           |              |                | 16.7        |        |                |        | 4             | 26    |        |          |          |          |
| 71570 GREAT FALLS CLIMATE, MAN        | 5031N    | 09558W    | 253       |           | 986.0        | 1016.4         | 17.9        |        | 14.9           |        | 4             | 42    |        |          |          |          |
| 71585 FORT MCMURRAY CS, ALTA          | 5639N    | 11110W    | 369       |           |              |                | 13.9        |        | 11.0           |        | 11            | 62    |        |          |          |          |
| 71586 LA RONGE RCS, SASK              | 5509N    | 10510W    | 379       |           | 967.9        | 1013.3         | 14.4        |        | 12.2           |        | 6             | 55    |        | 3        |          |          |
| 71590 EDMUNDSTON, NB                  | 4725N    | 06819W    | 157       |           | 997.7        | 1016.6         | 10.7        |        | 9.9            |        | 6             | 45    |        |          |          |          |
| <b>71600 SABLE ISLAND, NS</b>         | 4355N    | 06000W    | 5         |           | 1017.0       | 1017.6         | 14.9        | -6     | 13.9           |        | 5             | 92    | -12    | 3        |          |          |
| 71695 THE PAS CLIMATE, MAN            | 5358N    | 10106W    | 274       |           | 981.0        | 1011.1         |             |        |                |        | 3             | 7     |        |          |          |          |
| 71696 CHURCHILL CLIMATE, MAN          | 5844N    | 09404W    | 29        |           | 1010.0       | 1013.6         | 9.4         |        | 9.6            |        | 10            | 65    |        |          |          |          |

# SURFACE

# SEPTEMBER 2009

| STATION                                 | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|---|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|   |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>71721 MANIWAKI AIRPORT, QUE</b>      | 4616N    | 07559W    | 201       |           | 994.6        | 1018.8         | 12.7        |        | 11.8           |        | 5             | 34    |        | 1        |          |          |
| <b>71727 BAGOTVILLE A, QUE</b>          | 4820N    | 07100W    | 159       |           | 997.8        | 1017.2         | 12.5        | 1.5    | 11.3           |        | 13            | 92    | -7     | 3        |          |          |
| <b>71733 GORE BAY A, ONT</b>            | 4553N    | 08234W    | 194       |           | 996.0        | 1019.1         | 15.5        | 1.7    | 14.3           |        |               |       |        |          |          |          |
| 71741 KAMLOOPS AUT, BC                  | 5042N    | 12026W    | 345       |           | 974.0        | 1015.0         | 17.8        |        | 9.9            |        | 6             | 28    |        |          |          |          |
| 71742 GANDER AIRPORT CS, NFLD           | 4856N    | 05434W    | 151       |           | 995.8        | 1014.2         | 11.2        |        | 10.4           |        | 7             | 77    |        |          |          |          |
| 71743 RIVIERE AUX FEUILLES, QUE         | 5754N    | 07258W    | 171       |           | 990.4        | 1011.7         | 6.2         |        | 7.4            |        |               |       |        |          |          |          |
| <b>71813 NATASHQUAN A, QUE</b>          | 5011N    | 06149W    | 11        |           | 1012.2       | 1013.5         | 9.3         | .0     | 10.0           |        | 12            | 116   | 22     | 4        |          |          |
| <b>71816 GOOSE A, NFLD</b>              | 5319N    | 06025W    | 49        |           | 1005.6       | 1011.6         | 9.8         | .8     | 8.9            |        | 11            | 123   | 33     | 4        | 136      | 115      |
| <b>71818 CARTWRIGHT, NFLD</b>           | 5342N    | 05702W    | 15        |           | 1008.6       | 1010.4         | 8.7         | .6     | 8.8            |        | 13            | 139   | 52     | 5        | 148      | 135      |
| 71823 LA GRANDE IV A, QUE               | 5345N    | 07340W    | 306       |           | 977.3        | 1014.7         | 9.0         |        | 9.8            |        | 14            | 102   |        | 2        |          |          |
| 71827 LA GRANDE RIVIERE A,              | 5338N    | 07742W    | 195       |           | 991.3        | 1015.4         | 9.1         |        | 9.8            |        | 13            | 93    |        | 2        |          |          |
| <b>71828 SCHEFFERVILLE A, QUE</b>       | 5448N    | 06648W    | 518       |           | 950.4        | 1013.2         | 7.3         | 1.9    | 8.2            |        | 10            | 48    | -46    | 0        |          |          |
| <b>71842 SIOUX LOOKOUT A, ONT</b>       | 5007N    | 09154W    | 390       |           | 972.2        | 1018.2         | 16.8        | 5.9    | 14.1           |        | 4             | 21    | -60    | 1        |          |          |
| <b>71844 BIG TROUT LAKE READAC, ONT</b> | 5348N    | 08953W    | 222       |           | 989.6        | 1016.8         | 12.9        |        | 11.8           |        | 4             | 13    |        | 0        |          |          |
| <b>71862 ESTEVAN A, SASK</b>            | 4913N    | 10250W    | 584       |           | 947.4        | 1015.8         | 16.9        | 4.5    | 11.4           |        | 2             | 5     | -37    | 1        |          |          |
| <b>71869 PRINCE ALBERT A, SK</b>        | 5313N    | 10540W    | 428       |           | 962.9        | 1014.0         | 15.7        | 5.8    | 12.5           |        | 5             | 38    | -1     | 3        |          |          |
| <b>71894 ESTEVAN POINT CS, BC</b>       | 4923N    | 12630W    | 7         |           | 1015.6       | 1016.4         | 13.3        |        | 13.8           |        | 16            | 242   |        | 5        |          |          |
| <b>71905 KUUJUARAPIK A, QC</b>          | 5517N    | 07745W    | 24        |           | 1011.8       | 1013.1         | 9.4         | 2.2    | 9.5            |        | 12            | 68    | -25    | 1        |          |          |
| <b>71906 KUUJUAQ A, QUE</b>             | 5806N    | 06825W    | 44        |           | 1006.3       | 1011.2         | 6.2         | .9     | 7.5            |        | 15            | 125   | 69     | 5        |          |          |
| <b>71907 INUKJUAQ A, QUE</b>            | 5828N    | 07805W    | 28        |           | 1009.6       | 1012.8         | 5.6         | .5     | 7.1            |        | 9             | 69    | 5      | 4        |          |          |
| <b>71915 CORAL HARBOUR A,</b>           | 6411N    | 08321W    | 64        |           | 1003.4       | 1011.5         | 2.1         | 1.2    | 6.2            |        | 9             | 100   | 64     | 6        |          |          |
| <b>71917 EUREKA, NU</b>                 | 7959N    | 08556W    | 11        |           | 1007.0       | 1008.4         | -5.6        | 2.8    | 3.6            |        | 3             | 8     | -2     | 3        |          |          |
| 71923 ENNADAI LAKE (AUT), NU            | 6107N    | 10050W    | 353       |           | 970.1        | 1013.4         | 8.8         |        | 9.1            |        | 7             | 21    |        |          |          |          |
| <b>71945 FORT NELSON A, BC</b>          | 5850N    | 12230W    | 389       |           | 964.5        | 1010.4         | 11.6        | 2.8    | 10.3           |        | 12            | 121   | 78     | 6        |          |          |
| <b>71950 SMITHERS A, BC</b>             | 5449N    | 12710W    | 522       |           | 951.8        | 1013.7         | 11.1        | 1.3    | 11.0           |        | 12            | 71    | 18     | 5        |          |          |
| <b>71964 WHITEHORSE A, YT</b>           | 6042N    | 13500W    | 706       |           | 925.8        | 1009.7         | 7.8         | .5     | 7.7            |        | 5             | 16    | -19    | 1        |          |          |
| <b>71966 DAWSON, YT</b>                 | 6403N    | 13900W    | 370       |           | 962.8        | 1007.8         | 7.5         |        | 7.9            |        | 2             | 10    |        | 1        |          |          |
| 71984 PAULATUK, NWT                     | 6921N    | 12400W    | 6         |           | 1009.3       | 1010.1         | 4.5         |        | 6.9            |        | 4             | 20    |        |          |          |          |
| 71989 MOULD BAY CS, NWT                 | 7614N    | 11920W    | 2         |           | 1010.5       | 1012.1         | -2.9        |        | 4.7            |        | 0             | 0     |        | 0        |          |          |
| <b>ST. PIERRE AND MIQUELON</b>          |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 71805 SAINT-PIERRE                      | 4646N    | 05611W    | 23        |           | 1012.8       | 1015.8         | 12.8        |        | 12.9           |        | 8             | 112   |        |          | 161      |          |
| <b>MEXICO</b>                           |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 76225 CHIHUAHUA, CHIH.                  | 2838N    | 10600W    | 1433      |           | 863.9        | 1010.4         | 22.1        |        | 16.1           |        | 14            | 58    |        | 2        | 218      |          |
| 76243 PIEDRAS NEGRAS, COAH.             | 2842N    | 10030W    | 250       |           | 986.7        | 1014.9         | 27.1        |        | 22.6           |        | 7             | 157   |        | 4        | 201      |          |
| 76256 EMPALME, SON.                     | 2757N    | 11040W    | 12        |           | 1007.9       | 1009.2         | 30.2        |        | 28.0           |        | 3             | 365   |        | 6        | 257      |          |
| 76311 CHOIX, SIN.                       | 2644N    | 10810W    | 238       |           | 982.9        | 1009.6         | 29.0        |        | 28.5           |        | 8             | 128   |        | 2        | 241      |          |
| 76342 MONCLOVA, COAH.                   | 2653N    | 10120W    | 615       |           | 946.6        | 1014.9         | 25.3        |        | 21.8           |        | 8             | 52    |        | 3        | 165      | 145      |
| 76373 TEPEHUANES, DGO.                  | 2521N    | 10540W    | 1967      |           | 821.2        | 1010.2         | 20.9        |        | 15.1           |        | 15            | 44    |        | 1        |          |          |
| 76393 MONTERREY, N.L.                   | 2544N    | 10010W    | 515       |           | 953.9        | 1013.3         | 25.5        |        | 24.0           |        | 11            | 192   |        | 5        | 127      | 130      |
| 76402 CIUDAD CONSTITUCION, BCS          | 2457N    | 11140W    | 48        |           | 1004.8       | 1010.3         | 28.3        |        | 26.1           |        | 2             | 63    |        | 4        | 245      |          |
| 76405 LA PAZ, BCS                       | 2410N    | 11010W    | 18        |           | 1008.5       | 1010.4         | 30.6        |        | 29.7           |        | 2             | 73    |        | 2        | 265      |          |
| 76423 DURANGO, DGO.                     | 2403N    | 10430W    | 1872      |           | 816.3        | 1011.0         | 18.9        |        | 15.6           |        | 13            | 122   |        | 1        | 185      |          |
| 76458 COLONIA JUAN CARRASCO MAZATL      | 2312N    | 10620W    | 4         |           | 1010.1       | 1010.5         | 29.2        | .7     | 31.7           | .6     | 11            | 204   | -13    | 3        | 255      | 119      |

# SURFACE

# SEPTEMBER 2009

| STATION                            | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|------------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                    |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 76556 TEPIC, NAY.                  | 2131N    | 10450W    | 915       |           | 910.4        | 1009.9         | 24.3        |        | 25.5           |        | 14            | 202   |        | 3        | 192      |          |
| 76577 GUANAJUATO, GTO.             | 2100N    | 10110W    | 1999      |           | 804.7        | 1010.5         | 19.6        | .7     | 15.8           | .8     | 12            | 118   | -9     | 2        | 148      | 75       |
| 76581 RIO VERDE, S.L.P.            | 2156N    | 09959W    | 983       |           | 903.9        | 1011.4         | 23.8        |        | 22.7           |        | 14            | 98    |        | 4        | 159      |          |
| 76585 MATLAPA, S.L.P.              | 2119N    | 09849W    | 132       |           | 998.2        | 1013.5         | 26.0        |        | 28.6           |        | 18            | 611   |        | 6        | 142      |          |
| 76634 TULANCINGO, HGO.             | 2005N    | 09822W    | 2181      |           | 785.9        | 1013.4         | 16.5        |        | 15.7           |        | 17            | 217   |        | 5        | 156      |          |
| 76640 TUXPAN, VER.                 | 2057N    | 09724W    | 28        |           | 1013.0       | 1014.1         | 27.3        |        | 33.7           |        | 15            | 414   |        | 4        | 156      |          |
| 76647 VALLADOLID, YUC.             | 2041N    | 08812W    | 27        |           | 1009.5       | 1012.5         | 27.8        |        | 31.9           |        | 16            | 210   |        | 4        | 242      |          |
| 76654 MANZANILLO, COL.             | 1903N    | 10410W    | 3         |           | 1011.4       | 1011.8         | 29.2        |        | 32.0           |        | 10            | 142   |        | 2        | 191      |          |
| 76665 MORELIA, MICH.               | 1942N    | 10110W    | 1913      |           | 812.0        | 1010.2         | 19.2        | 1.1    | 16.8           | 1.8    | 23            | 142   | 23     | 3        | 154      | 101      |
| 76675 TOLUCA, MEX.                 | 1917N    | 09941W    | 2720      |           | 738.7        | 1010.8         | 14.4        |        | 12.0           |        | 22            | 302   |        | 5        | 154      |          |
| 76680 MEXICO (CENTRAL),            | 1924N    | 09911W    | 2303      |           | 775.8        | 1007.9         | 17.1        | .8     | 14.6           | 1.6    | 23            | 188   | 44     | 5        | 119      | 86       |
| 76683 TLAXCALA, TLAX.              | 1919N    | 09815W    | 2248      |           | 782.4        | 1012.5         | 17.3        |        | 16.0           |        | 18            | 196   |        | 4        | 160      |          |
| 76687 JALAPA, VER.                 | 1933N    | 09655W    | 1389      |           | 868.0        | 1014.5         | 19.6        |        | 20.2           |        | 23            | 451   |        | 5        | 75       | 105      |
| 76692 HACIENDA YLANG YLANG VERACRU | 1909N    | 09607W    | 16        |           | 1010.7       | 1012.6         | 28.0        | .4     | 30.6           | 1.8    | 18            | 513   | 161    | 5        | 180      | 96       |
| 76695 CAMPECHE, CAMP.              | 1951N    | 09033W    | 5         |           | 1010.7       | 1011.2         | 28.7        |        | 23.0           |        | 9             | 116   |        | 1        | 269      |          |
| 76698 FELIPE CARRILLO PUERTO, Q.RO | 1942N    | 08754W    | 12        |           | 1011.5       | 1012.7         | 29.6        |        | 29.6           |        | 9             | 81    |        | 0        | 219      |          |
| 76726 CUERNAVACA, MOR.             | 1853N    | 09914W    | 1618      |           | 839.1        | 1009.6         | 19.6        |        | 17.3           |        | 25            | 442   |        |          | 142      |          |
| 76737 ORIZABA, VER.                | 1851N    | 09706W    | 1259      |           | 877.2        | 1013.1         | 20.5        |        | 20.3           |        | 22            | 452   |        | 4        | 107      |          |
| 76741 COATZACOALCOS, VER.          | 1808N    | 09425W    | 22        |           | 1012.8       | 1014.6         | 28.0        |        | 32.1           |        | 19            | 624   |        |          | 192      |          |
| 76750 CHETUMAL, Q.R.               | 1829N    | 08818W    | 7         |           | 1005.6       | 1006.6         | 29.4        |        | 30.6           |        | 9             | 106   |        | 4        | 216      |          |
| 76762 CHILPANCINGO, RO.            | 1733N    | 09930W    | 1265      |           | 875.4        | 1011.3         | 21.1        |        | 22.5           |        | 17            | 216   |        | 5        | 182      |          |
| 76805 ACAPULCO, GRO.               | 1650N    | 09956W    | 3         |           | 1010.7       | 1011.1         | 28.8        | .8     | 32.3           | 1.3    | 13            | 219   | -122   | 2        | 227      | 117      |
| 76845 SN. CRISTOBAL LAS CASAS, CHI | 1645N    | 09238W    | 2116      |           | 793.6        | 1011.7         | 17.0        |        | 15.0           |        | 16            | 206   |        | 5        | 187      |          |
| 76848 COMITAN, CHIS.               | 1615N    | 09208W    | 1646      |           | 837.7        | 1007.5         | 19.7        |        | 17.5           |        | 15            | 153   |        | 2        | 215      |          |
| 76855 PUERTO ANGEL, OAX.           | 1541N    | 09629W    | 46        |           | 1004.8       | 1009.8         | 28.5        |        | 28.9           |        | 7             | 101   |        | 3        | 203      |          |
| 76903 TAPACHULA, CHIS              | 1455N    | 09215W    | 118       |           | 999.2        | 1012.6         | 27.8        |        | 29.4           |        | 18            | 370   |        | 3        | 206      |          |
| <b>BERMUDA</b>                     |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 78016 BERMUDA INTERNATIONAL AIRPOR | 3222N    | 06440W    | 130       |           | 1017.4       | 1017.8         | 26.7        |        | 27.3           |        | 18            | 166   |        |          | 208      |          |
| <b>JAMAICA</b>                     |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 78388 MONTEGO BAY/SANGSTER         | 1830N    | 07755W    | 8         |           | 1012.1       | 1012.4         | 29.7        |        | 34.0           |        | 7             | 72    |        |          | 244      | 115      |
| 78397 KINGSTON/NORMAN MANLEY       | 1756N    | 07647W    | 14        |           | 1011.0       | 1012.6         | 28.4        |        | 25.5           |        | 5             | 54    |        | 2        | 252      | 15       |
| <b>PUERTO RICO AND US POSS</b>     |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 78526 SAN JUAN/INT.,               | 1825N    | 06559W    | 4         |           | 1013.8       | 1014.2         | 29.0        | .9     | 30.7           |        | 10            | 164   | 30     | 5        |          |          |
| <b>BELIZE</b>                      |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 78583 BELIZE/PHILLIP GOLDSTON INTL | 1732N    | 08818W    | 5         |           |              |                | 28.7        | 1.1    |                |        | 14            | 346   | 68     | 3        | 198      | 113      |
| <b>EL SALVADOR</b>                 |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 78650 ACAJUTLA                     | 1334N    | 08950W    | 15        |           | 1010.5       |                | 28.3        | 2.8    | 30.3           |        | 20            | 147   | -239   | 1        |          |          |

# SURFACE

# SEPTEMBER 2009

| STATION                                 | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|---|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|   |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>HONDURAS</b>                         |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 78705 LA CEIBA (AIRPORT)                | 1544N    | 08652W    | 26        |           | 1008.0       | 1009.9         | 28.8        | 1.4    | 29.2           | -5     | 10            | 199   | -4     | 4        | 252      | 140      |
| 78708 LA MESA (SAN PEDRO SULA)          | 1527N    | 08756W    | 31        |           | 1008.1       | 1010.4         | 29.1        | 1.9    | 32.3           |        | 8             | 62    | -89    | 1        | 213      | 120      |
| 78720 TEGUCIGALPA                       | 1403N    | 08713W    | 1007      |           | 902.5        | 1010.3         | 24.7        | 2.5    | 20.0           | .0     | 8             | 66    | -111   | 1        | 207      | 113      |
| <b>NICARAGUA</b>                        |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 78741 MANAGUA A.C.SANDINO               | 1209N    | 08610W    | 56        |           | 1003.9       | 1009.9         | 28.1        |        | 27.9           |        | 11            | 107   |        | 1        | 270      |          |
| <b>COSTA RICA</b>                       |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 78762 JUAN SANTAMARIA INT. AIRPORT      | 0959N    | 08413W    | 934       |           | 910.8        | 1012.0         | 23.0        | 1.7    | 23.3           |        | 17            | 129   | -226   | 0        |          |          |
| 78767 PUERTO LIMON                      | 1000N    | 08303W    | 5         |           | 1010.3       | 1010.5         | 27.2        | 1.5    | 28.6           |        | 12            | 80    | -83    | 2        | 196      | 128      |
| <b>NETHERLANDS ANTILLES &amp; ARUBA</b> |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 78866 JULIANA AIRPORT,                  | 1802N    | 06307W    | 4         |           | 1014.0       | 1014.5         | 28.4        | .2     | 27.9           | -1.2   | 8             | 84    | -47    | 2        | 228      | 99       |
| <b>GUADELOUPE &amp; OTHER FRENCH IS</b> |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 78890 LA DESIRADE                       | 1620N    | 06100W    | 33        |           | 1010.9       | 1013.9         | 28.6        |        | 29.5           |        | 11            | 369   |        | 6        |          |          |
| <b>GUADELOUPE</b>                       |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 78894 GUSTAVIA,                         | 1754N    | 06251W    | 45        |           | 1009.2       | 1014.4         | 28.4        |        | 30.9           | 1.9    | 14            | 93    | -18    | 4        |          |          |
| 78897 LE RAIZET, GUADELOUPE             | 1616N    | 06131W    | 11        |           | 1013.1       | 1014.0         | 27.3        | -.1    | 29.0           |        | 14            | 135   | -101   | 1        | 199      |          |
| <b>MARTINIQUE</b>                       |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 78922 CARAVELLE                         | 1446N    | 06053W    | 33        |           | 1009.4       | 1013.8         | 28.7        |        | 29.6           |        | 11            | 73    |        |          |          |          |
| 78925 LE LAMENTIN                       | 1436N    | 06100W    | 8         |           | 1012.8       | 1013.7         | 27.9        | .9     | 29.3           | -6     | 12            | 122   | -114   | 1        | 223      | 100      |
| <b>BARBADOS</b>                         |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 78954 GRANTLEY ADAMS                    | 1304N    | 05929W    | 56        |           | 1006.8       | 1013.3         | 28.1        |        | 30.3           |        | 12            | 125   |        | 3        | 216      |          |
| <b>TRINIDAD AND TOBAGO</b>              |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 78970 PIARCO INT. AIRPORT,              | 1037N    | 06121W    | 15        |           | 1010.0       | 1012.5         | 28.2        | 1.7    | 29.9           | 1.2    | 7             | 114   | -88    | 1        | 252      | 128      |
| <b>CURACAO AND BONAIRE</b>              |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 78988 HATO AIRPORT, CURACAO             | 1212N    | 06858W    | 9         |           | 1009.3       | 1010.2         | 29.5        | .8     | 31.6           | 1.4    | 2             | 14    | -31    | 2        | 277      | 109      |
| <b>COLOMBIA</b>                         |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 80001 SAN ANDRES (ISLA)/SESQUICENT      | 1235N    | 08143W    | 6         |           | 1010.3       | 1010.4         | 28.3        | .6     | 31.9           | .7     | 14            | 166   | -68    | 2        | 190      | 98       |
| 80002 PROVIDENCIA (ISLA)/EL EMBRUJ      | 1322N    | 08121W    | 6         |           |              |                | 28.4        |        | 33.6           |        | 15            | 343   |        | 5        | 193      | 100      |

# SURFACE

# SEPTEMBER 2009

| STATION                                  | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|--|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|  |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>S AMERICA</b>                         |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>COLOMBIA</b>                          |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 80009 SANTA MARTA/SIMON BOLIVAR          | 1108N    | 07414W    | 14        |           | 1008.2       | 1008.7         | 30.0        | 2.0    | 30.9           | 1.6    | 3             | 10    | -55    | 0        | 236      | 115      |
| 80022 CARTAGENA/RAFAEL NUNEZ             | 1027N    | 07531W    | 12        |           | 1008.7       | 1008.9         | 29.3        | 1.4    | 32.5           | 1.8    | 5             | 42    | -102   | 0        | 198      | 110      |
| 80028 BARRANQUILLA/ERNESTO CORTISS       | 1053N    | 07447W    | 30        |           | 1006.3       | 1009.9         | 28.9        | 1.2    | 33.9           | 3.5    | 5             | 36    | -110   | 0        | 185      | 112      |
| 80084 APARTADO/LOS CEDROS                | 0749N    | 07642W    | 20        |           |              |                | 28.3        |        | 32.0           |        | 13            | 324   |        |          | 135      | 110      |
| 80091 BARRANCABERMEJA/YARIGUIES          | 0701N    | 07348W    | 134       |           |              |                | 29.1        | 1.4    | 29.3           | .9     | 10            | 138   | -148   | 4        | 224      | 122      |
| 80094 BUCARAMANGA/PALONEGRO              | 0706N    | 07312W    | 1189      |           | 880.8        |                | 22.8        |        | 21.4           |        | 7             | 30    | -63    | 0        | 206      | 135      |
| 80097 CUCUTA/CAMILO DAZA                 | 0756N    | 07231W    | 317       |           | 973.5        | 1008.1         | 29.9        | 1.6    | 23.7           | -3     | 3             | 14    | -58    | 1        | 223      | 112      |
| 80099 ARAUCA/SANTIAGO PEREZ              | 0704N    | 07044W    | 128       |           | 991.4        | 1005.9         | 26.9        | .5     | 30.2           | 1.8    | 13            | 184   | 7      | 3        | 194      | 110      |
| 80112 RIONEGRO/J.M.CORDOVA               | 0608N    | 07526W    | 2142      |           | 791.2        |                | 17.4        |        | 15.2           |        | 12            | 92    |        |          | 217      | 115      |
| 80139 PUERTO CARRENO/A.GUAUQUEA          | 0610N    | 06730W    | 55        |           |              |                | 28.0        | 1.1    | 28.1           | 1.1    | 15            | 297   | 83     | 5        | 180      | 117      |
| 80144 QUIBDO/EL CARANO                   | 0543N    | 07637W    | 53        |           |              |                | 28.4        | 2.2    | 30.2           | .8     | 21            | 857   | 169    | 5        | 107      | 99       |
| 80210 PEREIRA/MATECANA                   | 0449N    | 07544W    | 1342      |           | 865.6        |                | 23.4        | 1.9    | 20.2           | 1.1    | 5             | 120   | -69    | 1        | 216      | 147      |
| 80214 IBAGUE/PERALES                     | 0426N    | 07509W    | 928       |           |              |                | 24.7        | .3     | 21.1           | .3     | 6             | 45    | -115   | 0        | 241      | 135      |
| <b>80222 BOGOTA/ELDORADO</b>             | 0442N    | 07409W    | 2547      |           | 753.0        |                | 14.0        | .9     | 11.1           | -8     | 5             | 21    | -52    | 1        | 164      | 133      |
| 80234 VILLAVICENCIO/VANGUARDIA           | 0410N    | 07337W    | 431       |           | 961.0        | 1010.2         | 26.6        | 1.6    | 24.4           | -2     | 14            | 327   | -36    | 2        | 203      | 138      |
| <b>80259 CALI/ALFONSO BONILLA ARAGON</b> | 0333N    | 07623W    | 969       |           | 904.4        |                | 25.1        |        | 21.4           |        | 4             | 41    | -28    | 1        | 222      | 140      |
| 80315 NEIVA/BENITO SALAS                 | 0258N    | 07518W    | 443       |           | 958.8        | 1007.8         | 29.9        | 1.0    | 19.7           | -1.5   | 4             | 14    | -45    | 1        | 201      | 123      |
| 80370 IPIALES/SAN LUIS                   | 0049N    | 07738W    | 2961      |           |              |                | 10.9        | .6     | 9.8            | -5     | 6             | 13    | -38    | 1        | 134      | 115      |
| 80398 LETICIA/VASQUEZ COBO               | 0410S    | 06957W    | 84        |           | 1002.4       | 1011.9         | 26.7        | .7     | 30.7           | 2.4    | 10            | 160   | -66    | 2        | 214      | 120      |
| <b>VENEZUELA</b>                         |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 80403 CORO                               | 1125N    | 06941W    | 17        |           | 1008.9       | 1010.8         | 30.1        | 1.3    | 33.1           |        | 2             | 8     | -24    | 1        | 234      | 90       |
| 80410 BARQUISIMETO                       | 1004N    | 06919W    | 614       |           |              |                | 25.3        | 1.4    | 22.5           |        | 3             | 24    | -15    | 2        | 227      | 100      |
| 80413 MARACAY - B. A. SUCRE              | 1015N    | 06739W    | 437       |           | 963.5        | 1012.7         | 26.6        | 2.0    | 28.0           |        | 9             | 145   | 10     | 4        | 237      | 104      |
| 80415 CARACAS/MAIQUETIA AEROP. INT       | 1036N    | 06659W    | 48        |           | 1006.0       | 1011.3         | 30.2        | 2.8    | 37.7           |        | 4             | 13    | -41    | 1        | 231      | 101      |
| <b>80425 MENE GRANDE</b>                 | 0949N    | 07056W    | 28        |           | 1006.7       | 1009.8         | 29.5        | 2.3    | 31.9           |        | 8             | 112   | -55    | 2        | 209      | 101      |
| 80426 VALERA                             | 0921N    | 07037W    | 582       |           | 947.1        | 1010.9         | 26.0        |        | 26.0           |        | 9             | 118   |        |          | 207      | 115      |
| 80427 ACARIGUA                           | 0933N    | 06914W    | 226       |           | 986.8        | 1012.0         | 26.2        | 1.0    | 27.9           |        | 10            | 120   | -42    |          | 215      | 114      |
| 80428 GUANARE                            | 0901N    | 06944W    | 163       |           | 991.3        | 1009.6         | 27.3        | 1.8    | 28.6           |        | 10            | 174   | 1      |          | 222      | 114      |
| 80431 SAN JUAN DE LOS MORROS             | 0955N    | 06720W    | 429       |           | 962.5        | 1009.9         | 25.7        |        | 24.1           |        | 8             | 105   |        |          | 257      | 125      |
| 80432 CARRIZAL                           | 0925N    | 06655W    | 161       |           | 985.6        | 1004.4         | 26.9        |        | 27.1           |        | 10            | 156   |        |          | 269      | 120      |
| 80434 VALLE DE LA PASCUA                 | 0913N    | 06601W    | 125       |           | 992.7        | 1006.4         | 27.4        |        | 27.7           |        | 4             | 57    |        |          | 231      |          |
| 80435 MATURIN                            | 0945N    | 06311W    | 66        |           | 1003.5       | 1011.0         | 28.5        | 1.8    | 28.3           |        | 6             | 134   | 3      | 3        | 257      | 121      |
| 80437 EL VIGIA                           | 0838N    | 07139W    | 103       |           | 999.4        | 1007.8         | 27.6        |        | 24.0           |        | 10            | 160   |        |          | 224      |          |
| <b>80438 MERIDA</b>                      | 0836N    | 07111W    | 1498      |           | 881.1        | 1518 Y         | 21.4        | 2.0    | 17.3           |        | 12            | 115   | -114   | 1        | 242      | 120      |
| 80440 BARINAS                            | 0837N    | 07013W    | 204       |           | 990.5        | 1011.5         | 27.1        |        | 25.6           |        | 7             | 195   |        |          | 197      |          |
| 80442 CALABOZO                           | 0856N    | 06725W    | 101       |           | 1000.4       | 1011.9         | 28.3        |        | 28.9           |        | 5             | 66    |        |          | 236      |          |
| 80444 CIUDAD BOLIVAR                     | 0809N    | 06333W    | 48        |           | 1005.0       |                | 29.0        | 1.0    |                |        | 2             | 5     | -91    | 1        | 256      | 102      |
| 80447 SAN ANTONIO DEL TACHIRA            | 0751N    | 07227W    | 378       |           | 965.9        | 1007.5         | 28.3        | 1.3    | 23.3           |        | 5             | 67    | 12     | 4        | 217      | 111      |

# SURFACE

# SEPTEMBER 2009

| STATION                               | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|---------------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                       |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 80448 GUASDUALITO                     | 0714N    | 07048W    | 131       |           |              |                | 26.1        | .5     | 29.5           |        | 9             | 70    | -118   |          | 176      | 98       |
| <b>80450 SAN FERNANDO DE APURE</b>    | 0754N    | 06725W    | 48        |           |              |                | 26.1        | -.5    | 29.5           |        | 9             | 70    | -103   | 1        | 176      | 86       |
| <b>80453 TUMEREMO</b>                 | 0718N    | 06127W    | 181       |           | 1004.5       |                | 26.1        | .2     | 26.7           |        | 2             | 65    | -26    | 2        | 255      | 115      |
| 80457 PUERTO AYACUCHO                 | 0536N    | 06730W    | 74        |           | 1003.2       | 1011.8         | 26.2        | .4     | 23.5           |        | 10            | 101   | -97    | 1        | 197      | 117      |
| <b>80462 SANTA ELENA DE UAIREN</b>    | 0436N    | 06107W    | 907       |           |              |                | 22.0        | .8     | 22.6           |        | 8             | 59    | -54    | 2        | 96       | 41       |
| 80472 VALENCIA                        | 1010N    | 06756W    | 431       |           | 963.7        | 1011.3         | 26.4        |        | 25.3           |        | 9             | 208   |        |          | 218      |          |
| 80475 STO. DOMINGO                    | 0735N    | 07204W    | 327       |           | 976.9        | 1013.8         | 24.7        |        | 26.3           |        | 22            | 390   |        |          | 135      | 80       |
| <b>SURINAME</b>                       |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 81225 ZANDERIJ                        | 0527N    | 05512W    | 15        |           | 1010.5       | 1012.9         | 27.5        |        |                |        | 9             | 60    |        |          |          |          |
| <b>FRENCH GUIANA</b>                  |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 81401 SAINT-LAURENT-DU-MARONI         | 0530N    | 05402W    | 9         |           | 1011.9       | 1012.4         | 27.7        |        | 27.7           |        | 7             | 62    | -53    |          |          |          |
| <b>81405 ROCHAMBEAU</b>               | 0450N    | 05222W    | 9         |           | 1011.9       | 1012.9         | 27.1        |        | 27.6           |        | 2             | 36    | -37    |          | 272      | 108      |
| 81408 SAINT GEORGES DE L'OYAPOCK      | 0353N    | 05148W    | 7         |           | 1011.8       | 1012.6         | 27.0        |        | 26.1           |        | 1             | 14    | -50    |          |          |          |
| 81415 MARIPASOULA                     | 0338N    | 05402W    | 104       |           | 1000.6       | 1012.5         | 27.3        |        | 26.2           |        | 2             | 7     | -78    | 0        |          |          |
| <b>BRAZIL</b>                         |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>82024 BOA VISTA</b>                | 0249N    | 06039W    | 90        |           |              |                | 29.8        |        | 28.1           |        | 3             | 8     |        | 1        | 243      |          |
| 82098 MACAPA                          | 0002N    | 05103W    | 15        |           | 1010.6       | 1012.3         | 28.9        | 1.4    | 28.6           |        | 1             | 1     | -41    | 0        | 289      | 106      |
| <b>82106 SAO GABRIEL DA CACHOEIRA</b> | 0008S    | 06705W    | 90        |           |              |                | 26.4        |        | 30.3           |        | 18            | 154   |        | 3        | 195      | 95       |
| <b>82113 BARCELOS</b>                 | 0059S    | 06255W    | 40        |           |              |                | 27.8        | 2.0    | 29.3           |        | 9             | 73    | 45     | 1        | 204      | 123      |
| 82191 BELEM                           | 0127S    | 04828W    | 10        |           | 1010.8       | 1011.4         | 27.6        | 1.5    | 30.2           |        | 9             | 134   | -6     | 4        | 276      | 121      |
| 82212 FONTE BOA                       | 0232S    | 06610W    | 56        |           | 1003.4       | 1011.5         | 27.3        |        | 30.4           |        | 11            | 146   |        | 3        | 193      |          |
| 82246 BELTERRA                        | 0238S    | 05457W    | 176       |           | 992.9        | 1012.7         | 27.5        | 2.2    | 30.7           |        | 1             | 3     | -38    | 1        | 250      | 104      |
| 82280 SAO LUIZ                        | 0232S    | 04418W    | 51        |           | 1006.7       | 1012.5         | 27.5        | 1.1    | 28.8           |        | 0             | 0     | -20    | 0        | 256      | 103      |
| <b>82331 MANAUS</b>                   | 0308S    | 06001W    | 72        |           | 1003.3       | 1011.5         | 29.9        | 2.4    | 29.9           |        | 1             | 4     | -79    | 0        | 265      | 171      |
| 82336 ITACOATIARA                     | 0308S    | 05826W    | 40        |           |              |                | 30.1        | 3.5    | 28.9           |        | 1             | 1     | -42    | 0        | 276      | 169      |
| 82397 FORTALEZA                       | 0346S    | 03836W    | 26        |           | 1011.4       | 1014.5         | 27.0        | .4     | 26.5           |        | 1             | 3     | -19    | 1        | 280      | 99       |
| <b>82410 BENJAMIN CONSTANT</b>        | 0423S    | 07002W    | 65        |           |              |                | 27.4        |        | 30.1           |        | 12            | 109   |        | 2        | 193      |          |
| <b>82425 COARI</b>                    | 0405S    | 06308W    | 46        |           |              |                | 29.2        |        | 28.5           |        | 4             | 56    |        | 1        |          |          |
| 82445 ITAITUBA                        | 0416S    | 05559W    | 45        |           | 1008.5       | 1013.7         | 29.3        | 1.8    | 32.8           |        | 8             | 44    | -30    | 2        | 259      | 135      |
| 82460 BACABAL                         | 0415S    | 04447W    | 25        |           | 1009.1       | 1012.0         | 29.4        |        | 27.7           |        | 1             | 2     |        | 2        | 263      |          |
| 82533 MANICORE                        | 0549S    | 06118W    | 50        |           | 1006.3       | 1011.8         | 27.7        |        | 29.7           |        | 6             | 35    |        | 0        | 218      |          |
| 82562 MARABA                          | 0521S    | 04909W    | 95        |           | 1000.3       | 1011.0         | 29.2        | 2.3    | 27.2           |        | 2             | 6     | -50    | 0        | 241      | 198      |
| <b>82571 BARRA DO CORDA</b>           | 0530S    | 04516W    | 153       |           | 994.2        | 1011.4         | 28.4        | 1.4    | 26.1           |        | 1             | 2     | -19    | 2        | 256      | 134      |
| 82578 TERESINA                        | 0505S    | 04249W    | 74        |           | 1003.7       | 1013.5         | 28.2        | -.2    | 24.3           |        | 0             | 0     | -16    | 0        | 310      | 125      |
| <b>82586 QUIXERAMOBIM</b>             | 0512S    | 03918W    | 212       |           | 985.0        | 1008.5         | 27.1        | -.3    | 22.9           |        | 0             | T     | -4     | 3        | 280      | 105      |
| 82598 NATAL                           | 0546S    | 03512W    | 45        |           | 1010.3       | 1015.5         | 26.5        |        | 27.5           |        | 9             | 77    |        | 4        | 252      |          |
| 82678 FLORIANO                        | 0646S    | 04301W    | 127       |           | 997.9        | 1013.4         | 30.7        | 1.1    | 19.7           |        | 0             | T     | -39    | 2        | 317      | 121      |
| <b>82704 CRUZEIRO DO SUL</b>          | 0738S    | 07240W    | 170       |           | 988.3        | 1007.6         | 26.3        |        | 28.5           |        | 10            | 198   |        |          | 183      |          |
| 82723 LABREA                          | 0715S    | 06450W    | 60        |           | 1004.6       | 1012.8         | 27.3        |        | 30.6           |        | 9             | 78    |        | 3        | 196      |          |
| 82765 CAROLINA                        | 0720S    | 04728W    | 193       |           | 990.5        | 1014.2         | 29.4        | 1.6    | 25.7           |        | 2             | 63    | 14     | 4        | 218      | 108      |
| 82784 BARBALHA                        | 0719S    | 03918W    | 409       |           | 967.8        | 1012.8         | 26.5        | .3     | 24.8           |        | 0             | T     | -5     | 2        | 283      | 103      |

# SURFACE

# SEPTEMBER 2009

| STATION                     | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|-----------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                             |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 82791 PATOS                 | 0701S    | 03716W    | 249       |           | 986.8        | 1014.7         | 27.1        |        | 20.4           |        | 0             | 0     |        | 2        | 294      | 105      |
| 82900 RECIFE                | 0803S    | 03455W    | 7         |           | 1014.3       | 1016.1         | 25.7        | 1.1    | 26.3           |        | 8             | 83    | -39    | 3        | 216      | 100      |
| 82915 RIO BRANCO            | 0958S    | 06748W    | 160       |           | 994.1        | 1012.9         | 26.1        | .9     | 26.4           |        | 4             | 78    | -18    | 3        | 237      | 166      |
| 82983 PETROLINA             | 0923S    | 04029W    | 370       |           | 971.8        | 1013.0         | 28.1        | 1.9    | 17.5           |        | 0             | 0     | -6     | 0        | 297      | 113      |
| 82986 PAULO AFONSO          | 0924S    | 03813W    | 253       |           | 986.1        | 1014.6         | 25.5        | .6     | 22.1           |        | 2             | 2     | -16    | 1        | 252      | 112      |
| <b>83064 PORTO NACIONAL</b> | 1043S    | 04835W    | 239       |           | 983.8        | 1010.2         | 30.5        | 2.5    |                |        | 6             | 47    | -4     | 3        | 222      | 107      |
| 83096 ARACAJU               | 1055S    | 03703W    | 5         |           | 1015.7       | 1016.5         | 26.1        | 1.0    | 26.7           |        | 11            | 79    | -16    | 3        | 232      | 106      |
| 83186 JACOBINA              | 1111S    | 04028W    | 485       |           | 960.4        | 1013.5         | 26.3        | 3.1    | 18.5           |        | 3             | 6     | -25    | 1        | 250      | 130      |
| <b>83229 SALVADOR</b>       | 1301S    | 03831W    | 51        |           | 1011.2       | 1017.1         | 25.1        | .9     | 26.2           |        | 7             | 56    | -56    | 2        | 231      | 109      |
| 83235 TAGUATINGA            | 1224S    | 04626W    | 604       |           | 944.3        | 1010.3         |             |        | 18.1           |        | 5             | 39    | 10     | 4        | 210      | 100      |
| <b>83236 BARREIRAS</b>      | 1209S    | 04500W    | 439       |           | 962.1        | 1010.3         | 27.7        | 1.8    | 20.0           |        | 1             | 6     | -14    | 3        | 278      | 114      |
| 83242 LENCOIS               | 1234S    | 04123W    | 439       |           | 965.9        | 1015.1         | 24.7        | 2.0    | 21.2           |        | 3             | 17    | -32    | 1        | 214      | 135      |
| <b>83264 GLEBA CELESTE</b>  | 1212S    | 05630W    | 415       |           | 969.0        | 1015.1         | 27.2        | 3.0    | 25.0           |        | 6             | 76    | -102   | 3        | 209      | 138      |
| 83288 BOM JESUS DA LAPA     | 1316S    | 04325W    | 440       |           | 962.4        | 1010.3         | 29.2        | 2.5    | 17.6           |        | 1             | 3     | -9     | 1        | 274      | 114      |
| 83332 POSSE                 | 1406S    | 04622W    | 826       |           | 921.7        | 1010.2         | 26.7        | 2.0    | 18.3           |        | 7             | 35    | 5      | 4        | 229      | 107      |
| 83344 VITORIA DA CONQUISTA  | 1457S    | 04053W    | 840       |           | 919.1        | 1015.6         | 20.5        | 1.0    | 19.6           |        | 5             | 29    | -1     | 4        | 220      | 126      |
| 83358 POXOREO (POXOREU)     | 1550S    | 05423W    | 450       |           | 970.8        | 1010.3         | 25.6        |        | 24.6           |        | 8             | 91    |        | 4        | 179      |          |
| <b>83361 CUIABA</b>         | 1533S    | 05607W    | 151       |           | 994.6        | 1015.3         | 27.3        | .7     | 23.8           |        | 4             | 68    | 10     | 4        | 203      | 114      |
| 83377 BRASILIA              | 1547S    | 04756W    | 1159      |           | 887.9        | 1011.5         | 22.8        | .3     | 16.8           |        | 7             | 51    | 0      | 3        | 181      | 89       |
| 83423 GOIANIA               | 1640S    | 04915W    | 741       |           | 931.1        | 1011.5         | 26.0        | 1.4    | 19.8           |        | 7             | 71    | 24     | 4        | 215      | 100      |
| 83437 MONTES CLAROS         | 1643S    | 04352W    | 646       |           | 941.8        | 1012.4         | 25.5        | 2.8    | 18.1           |        | 4             | 48    | 27     | 4        | 251      | 111      |
| <b>83498 CARAVELAS</b>      | 1744S    | 03915W    | 3         |           | 1017.6       | 1017.9         | 24.6        | 1.5    | 24.9           |        | 10            | 87    | 1      | 4        | 171      | 93       |
| 83550 SAO MATEUS            | 1842S    | 03951W    | 25        |           | 1014.6       | 1017.5         | 24.9        | 2.6    | 25.1           |        | 5             | 34    | -45    | 1        | 221      | 181      |
| 83565 PARANAIBA             | 1942S    | 05111W    | 331       |           | 966.0        | 1012.5         | 24.8        | 1.3    | 22.0           |        | 13            | 251   | 199    | 6        | 201      | 105      |
| 83579 ARAXA                 | 1934S    | 04656W    | 1004      |           | 903.6        | 1014.1         | 22.5        | 2.0    | 18.7           |        | 9             | 58    | -8     | 3        | 195      | 97       |
| 83587 BELO HORIZONTE        | 1956S    | 04356W    | 850       |           | 913.6        | 1012.6         | 23.3        | 2.3    | 16.9           |        | 6             | 103   | 63     | 5        | 208      | 99       |
| 83592 CARATINGA             | 1948S    | 04209W    | 609       |           | 947.7        | 1015.6         | 22.4        | 2.0    | 21.0           |        | 7             | 161   | 82     | 6        | 184      | 97       |
| <b>83618 TRES LAGOAS</b>    | 2047S    | 05142W    | 313       |           |              |                | 23.5        | .0     |                |        | 12            | 143   | 78     | 4        | 181      | 107      |
| 83630 FRANCA                | 2033S    | 04726W    | 1026      |           | 904.7        | 1014.8         | 21.9        | 3.0    | 18.5           |        | 9             | 132   | 61     | 4        | 165      | 145      |
| 83648 VITORIA               | 2019S    | 04020W    | 36        |           | 1013.8       | 1018.1         | 24.9        | 2.3    | 23.6           |        | 3             | 18    | -60    | 1        | 178      |          |
| 83676 CATANDUVA             | 2108S    | 04858W    | 536       |           | 951.2        | 1013.9         | 23.6        | .8     | 20.8           |        | 12            | 164   | 107    | 5        | 157      | 81       |
| 83698 CAMPOS                | 2145S    | 04120W    | 11        |           | 1015.4       | 1016.8         | 24.1        |        | 23.7           |        | 6             | 34    |        | 2        |          |          |
| 83702 PONTA PORA            | 2232S    | 05542W    | 650       |           | 938.1        | 1014.9         | 19.2        | -.5    | 17.6           |        | 9             | 63    | -41    | 2        | 161      | 100      |
| 83704 IVINHEMA              | 2219S    | 05356W    | 369       |           | 970.1        |                |             |        |                |        | 9             | 94    | -19    | 3        | 181      | 121      |
| 83716 PRESIDENTE PRUDENTE   | 2207S    | 05123W    | 436       |           | 963.9        | 1012.9         | 23.3        |        | 21.3           |        | 10            | 151   |        | 5        | 202      |          |
| 83726 SAO CARLOS            | 2201S    | 04753W    | 856       |           | 920.1        | 1016.5         | 21.1        | 1.5    | 19.8           |        | 12            | 134   | 69     | 5        | 162      | 156      |
| 83738 RESENDE               | 2229S    | 04428W    | 440       |           | 966.6        | 1016.5         | 21.3        |        | 20.0           |        | 10            | 112   |        | 4        | 120      |          |
| 83766 LONDRINA              | 2323S    | 05111W    | 566       |           | 950.5        | 1015.2         | 21.6        | 1.6    | 20.6           |        | 12            | 238   | 139    | 6        | 148      | 94       |
| <b>83781 SAO PAULO</b>      | 2330S    | 04637W    | 792       |           | 926.7        | 1015.5         | 19.8        | 2.0    | 17.7           |        | 11            | 192   | 112    | 5        | 101      | 81       |
| 83836 IRATI                 | 2528S    | 05038W    | 837       |           | 916.7        | 1013.8         | 17.0        |        | 17.1           |        | 16            | 369   |        | 6        | 85       | 65       |
| <b>83842 CURITIBA</b>       | 2525S    | 04916W    | 924       |           | 912.9        | 1015.9         | 16.5        | 1.5    | 16.5           |        | 14            | 334   | 219    | 5        | 74       | 61       |
| <b>83881 IRAI</b>           | 2711S    | 05314W    | 247       |           | 985.3        | 1013.9         | 17.8        | .4     | 17.4           |        | 14            | 335   | 176    | 6        | 102      | 70       |
| 83897 FLORIANOPOLIS         | 2735S    | 04834W    | 2         |           | 1015.8       | 1016.1         | 18.8        | 1.3    | 18.3           |        | 15            | 219   | 93     | 5        | 94       | 73       |
| 83967 PORTO ALEGRE          | 3001S    | 05113W    | 47        |           | 1011.2       | 1016.9         | 17.1        | .3     | 16.6           |        | 15            | 294   | 155    | 6        | 115      | 76       |
| 83980 BAGE                  | 3120S    | 05406W    | 242       |           | 987.8        | 1016.4         | 14.1        | -.9    | 13.4           |        | 14            | 249   | 100    | 6        | 156      | 105      |
| 83997 ST.VITORIA DO PALMAR  | 3331S    | 05321W    | 24        |           | 1015.0       | 1019.5         | 13.7        | .2     | 13.3           |        | 8             | 65    | -40    | 2        | 145      | 88       |



# SURFACE

# SEPTEMBER 2009

| STATION                         | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|---------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                 |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>ECUADOR</b>                  |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 84008 SAN CRISTOBAL (GALAPAGOS) | 0054S    | 08937W    | 8         |           | 1011.8       |                | 22.7        | 1.6    | 21.3           |        | 7             | 12    | 7      | 5        | 184      |          |
| 84088 IZOBAMBA                  | 0021S    | 07833W    | 3058      |           | 707.1        |                | 13.5        | 1.9    | 10.0           |        | 3             | 10    | -77    | 0        | 224      |          |
| 84132 NUEVO ROCAFUERTE          | 0055S    | 07525W    | 265       |           | 989.5        |                | 25.9        |        | 28.0           |        | 12            | 117   | -106   | 0        | 149      |          |
| 84140 PICHILINGUE               | 0106S    | 07929W    | 120       |           | 1002.1       |                | 24.9        | .8     | 24.0           |        | 0             | 0     | -15    | 0        | 87       |          |
| 84226 CANAR                     | 0233S    | 07856W    | 3083      |           |              |                | 12.6        | -2.0   | 9.6            |        | 1             | 5     | -22    | 0        | 229      |          |
| 84270 LOJA/LA ARGELIA           | 0402S    | 07912W    | 2160      |           |              |                | 16.3        | .6     | 13.7           |        | 13            | 55    | 8      | 1        | 143      |          |
| <b>PERU</b>                     |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 84370 TUMBES                    | 0333S    | 08023W    | 27        |           | 1008.2       | 1011.5         | 23.7        |        | 25.2           |        | 01            | 1     |        | 5        |          |          |
| 84377 IQUITOS                   | 0347S    | 07318W    | 126       |           | 1000.7       | 1011.2         | 26.8        |        | 28.1           |        | 11            | 100   | -89    | 1        |          |          |
| 84401 PIURA                     | 0512S    | 08036W    | 55        |           | 1009.5       | 1016.4         | 21.8        |        | 19.7           |        | 0             | 0     | 0      | 5        |          |          |
| 84452 CHICLAYO                  | 0647S    | 07949W    | 30        |           | 1011.0       | 1014.1         | 19.3        |        | 17.2           |        | 0             | 0     | -1     | 4        |          |          |
| 84455 TARAPOTO                  | 0630S    | 07622W    | 282       |           | 981.9        | 1016.9         | 27.1        |        | 26.4           |        | 8             | 116   | -38    | 5        |          |          |
| 84501 TRUJILLO                  | 0805S    | 07906W    | 30        |           | 1012.0       | 1016.0         | 17.7        |        | 17.2           |        | 0             | 0     | 0      | 5        |          |          |
| 84515 PUCALLPA                  | 0822S    | 07434W    | 149       |           | 994.1        | 1011.7         | 27.4        |        | 27.9           |        | 6             | 50    |        | 2        |          |          |
| 84628 LIMA/CALLAO               | 1201S    | 07707W    | 13        |           | 1012.8       | 1014.4         | 17.1        |        | 16.1           |        | 0             | 0     | -1     | 1        | 19       |          |
| 84686 CUZCO                     | 1332S    | 07156W    | 3249      |           | 689.1        |                | 12.8        |        | 6.8            |        | 5             | 17    | -5     | 3        |          |          |
| 84691 PISCO                     | 1344S    | 07613W    | 7         |           | 1013.4       | 1014.1         | 17.6        |        | 15.7           |        | 0             | 0     | -1     | 5        |          |          |
| 84735 JULIACA                   | 1528S    | 07009W    | 3827      |           | 645.1        |                | 12.7        |        | 4.5            |        | 2             | 4     | -18    | 2        |          |          |
| 84752 AREQUIPA                  | 1620S    | 07134W    | 2539      |           | 753.6        |                | 14.6        |        | 3.1            |        | 0             | 0     | -1     | 5        |          |          |
| 84782 TACNA                     | 1803S    | 07016W    | 469       |           | 964.2        | 1015.7         | 14.6        |        | 12.8           |        | 01            | 1     | -7     | 4        |          |          |
| <b>BOLIVIA</b>                  |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 85033 GUAYARAMERIN              | 1049S    | 06521W    | 130       |           | 996.3        | 1011.2         | 28.1        |        | 24.8           |        | 5             | 72    |        | 4        |          |          |
| 85041 COBIJA                    | 1102S    | 06847W    | 235       |           | 983.9        | 1010.2         | 26.2        |        | 24.6           |        | 7             | 94    |        | 3        |          |          |
| 85043 RIBERALTA                 | 1100S    | 06607W    | 141       |           | 994.9        | 1011.0         | 28.0        |        | 24.9           |        | 4             | 123   |        | 5        |          |          |
| 85104 SAN JOAQUIN               | 1304S    | 06449W    | 140       |           | 993.9        | 1009.9         | 27.9        |        | 22.7           |        | 4             | 61    |        | 3        |          |          |
| 85109 SAN RAMON                 | 1318S    | 06442W    | 140       |           | 994.3        | 1010.4         | 27.6        |        | 22.7           |        | 4             | 88    |        |          |          |          |
| 85114 MAGDALENA                 | 1320S    | 06407W    | 140       |           | 994.6        | 1010.9         | 27.6        |        | 22.8           |        | 4             | 34    |        | 2        |          |          |
| 85123 SANTA ANA                 | 1346S    | 06526W    | 144       |           | 995.3        | 1011.9         | 26.8        |        | 22.2           |        | 5             | 41    |        | 2        |          |          |
| 85140 REYES                     | 1419S    | 06723W    | 140       |           | 997.5        | 1014.5         | 24.7        |        | 23.1           |        | 7             | 35    |        |          |          |          |
| 85141 RURRENABAQUE              | 1428S    | 06734W    | 204       |           | 981.8        | 1012.2         | 24.9        |        | 25.9           |        | 8             | 77    |        | 4        |          |          |
| 85152 SAN BORJA                 | 1452S    | 06652W    | 194       |           | 989.4        | 1012.4         | 24.9        |        | 24.8           |        | 9             | 64    |        | 3        |          |          |
| 85153 SAN IGNACIO DE MOXOS      | 1455S    | 06536W    | 160       |           | 992.4        | 1011.4         | 24.9        |        | 22.3           |        | 5             | 55    |        | 2        |          |          |
| 85154 TRINIDAD                  | 1449S    | 06455W    | 155       |           | 994.9        | 1012.7         | 25.6        |        | 22.1           |        | 8             | 87    |        | 3        |          |          |
| 85175 ASCENCION DE GUARAYOS     | 1543S    | 06306W    | 247       |           | 984.7        | 1013.6         | 25.2        |        | 19.5           |        | 2             | 7     |        | 1        |          |          |
| 85195 SAN JAVIER                | 1616S    | 06228W    | 534       |           | 953.4        | 1013.7         | 23.2        |        | 18.8           |        | 7             | 30    |        | 2        |          |          |
| 85196 CONCEPCION                | 1609S    | 06201W    | 497       |           | 957.3        | 1014.1         | 24.0        |        | 18.6           |        | 4             | 48    |        | 4        |          |          |
| 85201 LA PAZ/ALTO               | 1631S    | 06811W    | 4058      |           | 633.7        |                | 7.9         |        | 5.0            |        | 9             | 21    |        | 2        |          |          |
| 85207 SAN IGNACIO DE VELASCO    | 1623S    | 06058W    | 413       |           | 965.8        | 1012.6         | 24.8        |        | 19.2           |        | 2             | 16    |        | 2        |          |          |
| 85210 SAN MATIAS                | 1620S    | 05823W    | 124       |           |              |                | 26.5        |        | 21.9           |        | 7             | 52    |        |          |          |          |
| 85223 COCHABAMBA                | 1725S    | 06611W    | 2548      |           | 748.6        |                | 18.3        |        | 10.1           |        | 2             | 4     |        | 3        |          |          |

# SURFACE

# SEPTEMBER 2009

| STATION                       | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|-------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                               |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 85242 ORURO                   | 1758S    | 06704W    | 3072      |           | 656.1        |                | 8.4         |        | 4.2            |        | 8             | 50    |        | 5        |          |          |
| 85244 VIRU-VIRU               | 1738S    | 06308W    | 373       |           | 969.6        | 1012.3         | 24.0        |        | 15.8           |        | 9             | 57    |        |          |          |          |
| 85245 SANTA CRUZ/EL TROMPILLO | 1748S    | 06311W    | 418       |           | 964.6        | 1012.3         | 24.1        |        | 15.1           |        | 11            | 56    |        | 3        |          |          |
| 85247 SAN JOSE DE CHIQUITOS   | 1748S    | 06044W    | 284       |           | 981.1        | 1014.9         | 25.2        |        | 17.6           |        | 3             | 21    |        | 3        |          |          |
| 85264 VALLEGRANDE             | 1828S    | 06406W    | 1998      |           |              |                | 15.8        |        | 12.4           |        | 2             | 36    |        |          |          |          |
| 85268 ROBORE                  | 1819S    | 05946W    | 276       |           | 983.0        | 1014.9         | 25.3        |        | 19.1           |        | 1             | 2     |        | 1        |          |          |
| 85283 SUCRE                   | 1901S    | 06518W    | 2904      |           | 719.6        |                | 15.0        |        | 9.8            |        | 5             | 14    |        | 3        |          |          |
| 85289 PUERTO SUAREZ           | 1859S    | 05749W    | 134       |           | 996.0        | 1011.3         | 25.4        |        | 21.8           |        | 3             | 7     |        | 1        |          |          |
| 85293 POTOSI                  | 1933S    | 06544W    | 3935      |           | 636.5        |                | 8.4         |        | 4.1            |        | 2             | 6     |        |          |          |          |
| 85312 MONTEAGUDO              | 1947S    | 06355W    | 992       |           | 885.9        |                | 18.6        |        | 13.5           |        | 1             | 2     |        |          |          |          |
| 85315 CAMIRI                  | 2000S    | 06332W    | 798       |           | 923.9        | 1012.5         | 21.5        |        | 11.6           |        | 2             | 22    |        | 4        |          |          |
| 85345 VILLAMONTES             | 2115S    | 06327W    | 398       |           | 968.0        | 1013.8         | 21.8        |        | 19.1           |        | 0             | 0     |        |          |          |          |
| 85364 TARIJA                  | 2133S    | 06442W    | 1854      |           | 815.3        |                | 15.9        |        | 9.8            |        | 1             | 12    |        | 5        |          |          |
| 85365 YACUIBA                 | 2157S    | 06339W    | 645       |           | 940.5        | 1014.1         | 19.3        |        | 14.0           |        | 0             | 0     |        | 1        |          |          |
| 85394 BERMEJO                 | 2246S    | 06419W    | 381       |           | 971.4        | 1015.4         | 19.6        |        | 14.6           |        | 0             | 0     |        |          |          |          |
| <b>CHILE</b>                  |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 85406 ARICA                   | 1821S    | 07020W    | 55        |           | 1012.0       | 1016.0         | 16.3        | .0     | 12.8           | -1.5   | 0             | 0     | 0      | 2        | 120      | 85       |
| 85418 IQUIQUE                 | 2032S    | 07011W    | 48        |           | 1011.0       | 1016.5         | 16.3        | .4     | 13.7           | .0     | 0             | 0     | -1     | 3        | 186      | 100      |
| 85442 ANTOFAGASTA             | 2326S    | 07027W    | 140       |           | 999.8        | 1016.0         | 13.9        | -4     | 11.6           | -1.1   | 0             | 0     | -1     | 2        | 229      | 105      |
| 85469 ISLA DE PASCUA          | 2710S    | 10920W    | 69        |           | 1011.0       | 1019.0         | 19.2        |        | 18.0           |        | 21            | 360   |        | 5        | 190      | 105      |
| 85488 LA SERENA               | 2955S    | 07112W    | 146       |           | 1002.0       | 1018.0         | 11.3        | -3     | 10.4           | -1.1   | 0             | 0     | -5     | 2        | 150      | 90       |
| 85574 PUDAHUEL                | 3323S    | 07047W    | 474       |           | 963.4        | 1019.0         | 10.3        |        | 9.4            |        | 4             | 20    |        | 3        | 181      | 100      |
| 85577 QUINTA NORMAL           | 3326S    | 07041W    | 520       |           | 958.2        | 1019.0         | 10.8        |        | 9.7            |        | 5             | 47    |        | 5        | 153      | 90       |
| 85585 JUAN FERNANDEZ          | 3337S    | 07849W    | 30        |           | 1021.0       | 1024.0         | 12.4        |        | 10.1           |        | 14            | 66    |        | 2        | 146      | 105      |
| 85629 CURICO                  | 3458S    | 07113W    | 220       |           |              |                |             |        |                |        | 3             | 63    | 7      | 3        | 160      | 100      |
| 85672 CHILLAN                 | 3635S    | 07202W    | 148       |           |              |                |             |        |                |        | 2             | 55    | -39    | 2        | 223      | 115      |
| 85682 CONCEPCION              | 3646S    | 07304W    | 148       |           | 1020.0       | 1021.0         | 9.3         | -4     | 8.8            | -1.3   | 5             | 51    | -36    | 1        | 241      | 120      |
| 85743 TEMUCO                  | 3846S    | 07238W    | 93        |           | 1010.0       | 1022.0         | 8.1         | -7     | 8.5            | -9     | 8             | 58    | -36    | 2        | 200      | 135      |
| 85766 VALDIVIA                | 3938S    | 07305W    | 19        |           |              |                |             |        |                |        | 4             | 97    | -65    | 2        | 188      | 125      |
| 85782 OSORNO                  | 4036S    | 07303W    | 58        |           |              |                |             |        |                |        | 7             | 42    | -62    | 1        |          |          |
| 85799 PUERTO MONTT            | 4126S    | 07306W    | 90        |           | 1011.0       | 1023.0         | 6.8         | -1.0   | 8.8            | -3     | 11            | 71    | -74    | 1        | 133      | 105      |
| 85864 COYHAIQUE               | 4536S    | 07206W    | 311       |           | 979.8        | 1017.0         | 6.1         | .2     | 6.6            | -3     | 6             | 26    | -63    | 1        | 181      | 115      |
| 85874 BALMACEDA               | 4555S    | 07142W    | 522       |           | 954.1        | 1017.0         | 4.4         | .3     | 5.7            | -3     | 3             | 15    | -34    | 1        |          |          |
| 85934 PUNTA ARENAS            | 5300S    | 07051W    | 43        |           | 1000.0       | 1005.0         | 5.1         | 1.1    | 6.2            | -2     | 4             | 14    | -10    | 2        | 131      | 90       |
| <b>PARAGUAY</b>               |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 86011 ADRIAN JARA             | 1932S    | 05922W    | 150       |           | 997.4        | 1014.7         | 25.4        |        | 16.8           |        | 1             | 12    |        | 2        |          |          |
| 86033 BAHIA NEGRA             | 2014S    | 05810W    | 96        |           | 1002.5       | 1012.1         | 24.1        |        | 18.8           |        | 0             | 0     |        | 1        |          |          |
| 86065 PRAT GILL               | 2242S    | 06130W    | 220       |           | 989.4        | 1015.5         | 22.0        |        | 13.0           |        | 0             | 0     |        | 0        |          |          |
| 86068 MARISCAL ESTIGARRIBIA   | 2201S    | 06036W    | 167       |           | 993.4        | 1011.4         | 23.3        | -3     | 14.6           | .2     | 1             | 1     | -15    | 1        |          |          |
| 86086 LA VICTORIA             | 2217S    | 05756W    | 88        |           | 1004.6       | 1014.6         | 23.1        | -2     | 16.3           | -1.4   | 3             | 33    | -18    | 2        |          |          |
| 86097 PEDRO JUAN CABALLERO    | 2335S    | 05544W    | 652       |           | 951.2        | 1013.7         | 19.7        |        | 17.2           |        | 6             | 55    |        | 2        |          |          |
| 86128 POZO COLORADO           | 2327S    | 05852W    | 99        |           | 1000.2       | 1012.1         | 22.0        |        | 17.9           |        | 6             | 18    |        | 3        |          |          |
| 86134 CONCEPCION              | 2325S    | 05718W    | 74        |           | 1004.6       | 1013.9         | 21.6        | -2     | 17.6           | .1     | 5             | 73    | 6      | 3        |          |          |

# SURFACE

# SEPTEMBER 2009

| STATION                                | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|--|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|  |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 86185 SAN PEDRO                        | 2404S    | 05705W    | 80        |           | 1004.9       | 1014.2         | 20.2        |        | 17.8           |        | 5             | 169   |        | 5        |          |          |
| 86210 SALTOS DEL GUAIRA                | 2403S    | 05419W    | 265       |           | 978.7        | 1013.0         | 20.0        |        | 18.3           |        | 8             | 116   |        | 3        |          |          |
| 86218 ASUNCION/AEROPUERTO              | 2515S    | 05731W    | 101       |           | 1004.1       | 1014.1         | 19.9        | -6     | 17.0           | 1.2    | 5             | 28    | -50    | 1        |          |          |
| 86233 VILLARRICA                       | 2546S    | 05626W    | 161       |           | 994.4        | 1013.2         | 19.3        | -4     | 17.8           | 1.6    | 8             | 172   | 62     | 5        |          |          |
| 86246 AEROPUERTO INT. GUARANI          | 2521S    | 05427W    | 236       |           | 987.1        | 1015.2         | 18.9        |        | 18.3           |        | 11            | 347   |        | 6        |          |          |
| 86255 PILAR                            | 2625S    | 05819W    | 59        |           | 1007.5       | 1014.6         | 18.2        | -1.2   | 16.5           | .6     | 7             | 80    | -2     | 3        |          |          |
| 86260 SAN JUAN BAUTISTA MISIONES       | 2640S    | 05709W    | 126       |           | 999.3        | 1014.1         | 18.4        | -2     | 16.8           | 2.0    | 13            | 142   | 30     | 4        |          |          |
| 86297 ENCARNACION                      | 2720S    | 05550W    | 91        |           | 1003.3       | 1014.0         | 18.4        | .3     | 17.3           | 1.8    | 14            | 230   | 81     | 5        |          |          |
| <b>URUGUAY</b>                         |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>86330 ARTIGAS</b>                   | 3023S    | 05630W    | 123       |           | 1001.8       | 1016.2         | 15.2        | -8     | 13.8           | .3     | 9             | 196   | 83     | 5        | 184      | 97       |
| 86350 RIVERA                           | 3053S    | 05532W    | 242       |           | 988.3        | 1016.8         | 14.4        |        | 13.3           |        | 11            | 228   |        | 5        | 155      | 85       |
| 86430 PAYSANDU                         | 3220S    | 05802W    | 61        |           | 1010.9       | 1018.3         | 13.9        |        | 12.7           |        | 7             | 99    |        | 3        | 212      | 105      |
| <b>86440 MELO</b>                      | 3222S    | 05611W    | 100       |           |              |                | 14.0        | -1     | 13.2           | .7     | 10            | 124   | 3      | 3        | 172      | 100      |
| 86560 COLONIA                          | 3427S    | 05750W    | 22        |           | 1014.8       | 1018.5         | 13.3        | -8     | 11.3           | -7     | 8             | 77    | -3     | 3        |          |          |
| <b>86565 ROCHA</b>                     | 3429S    | 05418W    | 18        |           | 1015.9       | 1018.2         | 12.9        | .2     | 12.0           | -6     | 11            | 82    | -24    | 3        | 161      | 92       |
| 86580 CARRASCO                         | 3450S    | 05600W    | 32        |           | 1014.9       | 1019.0         | 12.2        | -1.0   | 11.5           | .1     | 8             | 113   | 20     | 3        | 190      | 91       |
| <b>ARGENTINA</b>                       |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>87007 LA QUIACA OBSERVATORIO</b>    | 2206S    | 06536W    | 3462      |           |              | 3123 Z         | 10.7        | 2.0    | 2.4            | -1.5   | 0             | 0     | -2     | 1        | 253      |          |
| 87016 ORAN AERO                        | 2309S    | 06419W    | 357       |           | 972.0        | 1012.8         | 19.2        | -6     | 11.6           | -2.4   | 0             | 0     | -10    | 1        | 176      |          |
| 87022 TARTAGAL AERO                    | 2239S    | 06349W    | 450       |           | 962.4        | 1013.2         | 19.9        |        | 9.8            |        | 0             | 0     |        |          | 193      |          |
| 87046 JUJUY AERO                       | 2423S    | 06505W    | 921       |           | 912.1        | 1502 Y         | 16.6        |        | 8.8            |        | 0             | 0     |        | 1        | 203      | 100      |
| <b>87047 SALTA AERO</b>                | 2451S    | 06529W    | 1238      |           | 880.0        | 1511 Y         | 13.9        | -1.1   | 7.9            | -1.8   | 0             | 0     | -6     | 0        | 195      | 120      |
| 87078 LAS LOMITAS                      | 2442S    | 06035W    | 130       |           | 999.3        | 1014.4         | 22.0        | .9     |                |        | 2             | 5     | -26    | 1        | 185      | 89       |
| 87097 IGUAZU AERO                      | 2544S    | 05428W    | 270       |           | 982.6        | 1013.1         | 18.4        |        | 17.4           |        | 14            | 256   |        | 3        | 116      |          |
| 87121 TUCUMAN AERO                     | 2651S    | 06506W    | 450       |           | 964.0        | 1015.7         | 16.4        |        | 9.1            |        | 1             | 2     |        |          | 175      |          |
| <b>87129 SANTIAGO DEL ESTERO AERO.</b> | 2746S    | 06418W    | 199       |           | 993.6        | 1017.5         | 17.0        | -1.4   | 9.1            | -2.0   | 0             | 0     | -13    | 1        | 207      | 55       |
| 87148 PRESIDENCIA ROQUE SAENZ PENA     | 2644S    | 06029W    | 93        |           | 1003.7       | 1015.4         | 18.0        |        | 14.3           |        | 5             | 31    |        | 3        | 196      |          |
| 87155 RESISTENCIA AERO                 | 2727S    | 05903W    | 53        |           | 1009.2       | 1015.3         | 18.3        |        | 14.3           |        | 4             | 17    |        | 1        | 148      | 90       |
| 87162 FORMOSA AERO                     | 2612S    | 05814W    | 60        |           | 1007.2       | 1014.2         | 19.2        | -3     |                |        | 5             | 146   | 61     | 5        | 185      | 99       |
| 87178 POSADAS AERO.                    | 2722S    | 05558W    | 131       |           | 999.9        | 1014.5         | 18.8        | .0     | 15.5           | -3     | 11            | 220   | 79     | 5        | 121      |          |
| <b>87217 LA RIOJA AERO.</b>            | 2923S    | 06649W    | 438       |           | 965.9        | 1015.6         | 16.3        | -1.5   | 8.8            | -9     | 0             | 0     | -6     | 1        | 182      | 80       |
| 87222 CATAMARCA AERO.                  | 2836S    | 06546W    | 454       |           | 961.6        |                | 17.4        |        | 7.3            |        | 0             | T     |        | 1        | 168      | 100      |
| 87244 VILLA DE MARIA DEL RIO SECO      | 2954S    | 06341W    | 341       |           | 967.2        | 1019.4         | 14.5        | -1.5   | 11.7           | .8     | 2             | 6     | -27    | 1        |          |          |
| <b>87257 CERES AERO</b>                | 2953S    | 06157W    | 88        |           | 1007.0       | 1017.4         | 15.2        | -1.0   |                |        | 7             | 77    | 29     | 4        | 225      | 104      |
| 87270 RECONQUISTA AERO                 | 2911S    | 05942W    | 53        |           | 1010.7       | 1017.0         | 16.0        | -8     | 12.6           | -2.3   | 5             | 38    | -29    | 2        | 183      | 90       |
| 87289 PASO DE LOS LIBRES AERO          | 2941S    | 05709W    | 70        |           | 1007.9       | 1016.3         | 16.9        | .2     |                |        | 9             | 96    | -37    | 2        | 149      |          |
| <b>87305 JACHAL</b>                    | 3015S    | 06845W    | 1175      |           |              |                | 10.8        |        | 6.9            |        | 2             | 2     |        |          |          |          |
| 87311 SAN JUAN AERO                    | 3124S    | 06825W    | 598       |           | 948.6        | 1017.8         | 13.2        |        | 5.4            |        | 0             | T     |        | 3        | 258      | 100      |
| 87320 CHAMICAL AERO                    | 3022S    | 06617W    | 467       |           | 962.9        | 1016.0         | 15.9        | -1.6   |                |        | 1             | 10    | -2     | 3        |          |          |
| 87328 VILLA DOLORES AERO               | 3157S    | 06508W    | 569       |           | 951.4        | 1017.1         | 13.7        | -2.1   | 7.5            | -6     | 5             | 25    | 0      | 3        | 277      | 120      |
| <b>87344 CORDOBA AERO</b>              | 3119S    | 06413W    | 484       |           | 963.2        | 1018.4         | 13.7        | -1.2   | 7.9            | -1.7   | 3             | 16    | -22    | 2        | 229      |          |
| 87349 PILAR OBSERVATORIO               | 3140S    | 06353W    | 338       |           | 979.3        | 1019.4         | 13.0        | -1.3   | 8.5            | -9     | 5             | 21    | -18    | 2        | 233      | 105      |
| <b>87374 PARANA AERO</b>               | 3147S    | 06029W    | 78        |           | 1009.3       | 1018.6         | 13.4        | -1.4   |                |        | 5             | 123   | 54     | 5        | 221      | 107      |

# SURFACE

# SEPTEMBER 2009

| STATION                              | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|--------------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                      |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 87393 MONTE CASEROS AERO             | 3016S    | 05739W    | 54        |           | 1010.6       | 1017.0         | 15.6        | -8     | 14.3           | .3     | 8             | 183   | 80     | 5        | 175      | 93       |
| 87395 CONCORDIA AERO                 | 3118S    | 05801W    | 38        |           | 1012.7       | 1017.2         | 14.3        | -1.3   | 12.4           | -6     | 10            | 170   | 70     | 5        | 151      |          |
| <b>87418 MENDOZA AERO</b>            | 3250S    | 06847W    | 705       |           | 936.9        | 1017.9         | 12.2        | -1.2   | 6.3            | -1.1   | 4             | 6     | -1     | 4        | 216      | 96       |
| 87436 SAN LUIS AERO                  | 3316S    | 06621W    | 713       |           | 935.6        | 1018.0         | 13.9        | -6     | 6.4            | -1.3   | 5             | 13    | -6     | 3        | 289      | 120      |
| 87448 VILLA REYNOLDS AERO            | 3344S    | 06523W    | 486       |           | 961.8        | 1019.1         | 11.5        | -1.4   | 7.8            | -7     | 9             | 58    | 30     | 5        | 233      | 111      |
| 87453 RIO CUARTO AERO                | 3307S    | 06414W    | 421       |           | 968.8        | 1018.7         | 11.9        | -1.6   | 8.1            | -7     | 6             | 77    | 35     | 0        | 235      |          |
| 87467 MARCOS JUAREZ AERO             | 3242S    | 06209W    | 114       |           |              | 1019.1         | 12.3        | -1.4   | 10.3           | -8     | 9             | 119   | 64     | 5        | 204      | 105      |
| 87480 ROSARIO AERO                   | 3255S    | 06047W    | 25        |           | 1015.7       | 1018.7         | 12.9        | -1.0   | 10.8           | -9     | 8             | 107   | 46     | 5        | 195      | 94       |
| 87497 GUALEGUAYCHU AERO              | 3300S    | 05837W    | 23        |           | 1016.7       | 1018.7         | 13.4        | -9     | 12.5           | .4     | 6             | 78    | 4      | 4        | 188      | 118      |
| 87506 MALARGUE AERO                  | 3530S    | 06935W    | 1426      |           | 859.4        | 1515 Y         | 6.0         | -2.1   | 4.6            | -1.0   | 5             | 57    | 36     | 5        | 229      |          |
| 87509 SAN RAFAEL AERO                | 3435S    | 06824W    | 748       |           |              |                | 10.3        | -1.7   | 6.3            | -9     | 3             | 13    | -14    | 3        | 183      | 91       |
| 87532 GENERAL PICO AERO              | 3542S    | 06345W    | 145       |           | 1002.1       | 1020.2         | 12.8        | -2     | 8.6            | -9     | 8             | 66    | 19     | 4        | 96       | 155      |
| <b>87534 LABOULAYE AERO</b>          | 3408S    | 06322W    | 137       |           | 1002.8       | 1019.4         | 11.5        | -1.7   | 8.9            | -6     | 8             | 115   | 77     | 5        | 227      | 107      |
| 87544 PEHUAJO AERO                   | 3552S    | 06154W    | 87        |           | 1009.6       | 1020.2         | 11.2        | -1.0   | 9.0            | -1.5   | 4             | 99    | 41     | 1        | 205      | 100      |
| 87548 JUNIN AERO                     | 3433S    | 06055W    | 82        |           | 1009.5       | 1019.4         | 11.1        | -1.6   | 9.7            | -9     | 10            | 143   | 89     | 5        | 204      | 101      |
| 87576 EZEIZA AERO                    | 3449S    | 05832W    | 20        |           | 1017.4       | 1019.8         | 12.0        | -9     | 11.2           | .2     | 8             | 91    | 29     | 4        | 124      | 103      |
| 87623 SANTA ROSA AERO                | 3634S    | 06416W    | 191       |           | 996.7        | 1019.7         | 11.0        | -1.2   | 7.6            | -1.4   | 8             | 62    | 21     | 4        | 188      | 101      |
| 87641 AZUL AERO                      | 3650S    | 05953W    | 147       |           | 1002.8       | 1020.8         | 9.1         |        | 8.5            |        | 6             | 71    |        | 4        | 183      | 95       |
| 87645 TANDIL AERO                    | 3714S    | 05915W    | 175       |           | 999.5        | 1021.0         | 8.5         |        | 8.3            |        | 5             | 60    |        | 4        | 275      | 90       |
| 87648 DOLORES AERO                   | 3621S    | 05744W    | 10        |           | 1019.2       | 1020.3         | 10.5        | -1.1   | 10.2           | -7     | 7             | 59    |        | 3        | 92       | 54       |
| 87688 TRES ARROYOS                   | 3820S    | 06015W    | 115       |           | 1006.8       | 1020.8         | 9.5         |        | 8.0            |        | 7             | 42    |        | 3        | 164      | 85       |
| <b>87692 MAR DEL PLATA AERO</b>      | 3756S    | 05735W    | 21        |           | 1018.8       | 1021.4         | 9.5         | -1.0   | 9.1            | -1.2   | 6             | 61    | 5      | 3        |          |          |
| <b>87715 NEUQUEN AERO</b>            | 3857S    | 06808W    | 271       |           | 987.5        | 1020.0         | 10.6        | -6     | 6.3            | .2     | 2             | 14    | -2     | 3        | 224      | 117      |
| <b>87750 BAHIA BLANCA AERO</b>       | 3844S    | 06210W    | 83        |           | 1010.5       | 1020.4         | 10.8        | -6     | 7.6            | -8     | 5             | 23    | -22    | 2        |          |          |
| 87765 BARILOCHE AERO                 | 4109S    | 07110W    | 845       |           | 923.6        | 1508 Y         | 4.1         | -6     | 5.0            | -1.3   | 3             | 40    | -17    | 3        | 211      | 110      |
| 87784 SAN ANTONIO OESTE AERO         | 4047S    | 06506W    | 20        |           | 1017.5       | 1019.8         | 10.2        | -1.8   | 6.2            | -1.3   | 1             | 4     | -8     | 1        | 206      |          |
| 87791 VIEDMA AERO                    | 4051S    | 06301W    | 7         |           | 1018.4       | 1019.3         | 11.0        |        | 6.8            |        | 2             | 6     |        | 2        | 248      | 120      |
| <b>87803 ESQUEL AERO</b>             | 4256S    | 07109W    | 799       |           | 925.1        | 1019.1         | 5.4         | .2     | 5.2            | -3     | 2             | 10    | -27    | 1        | 226      | 60       |
| <b>87828 TRELEW AERO</b>             | 4312S    | 06516W    | 43        |           | 1012.4       | 1017.6         | 10.6        | .0     | 6.9            | 1.0    | 0             | T     | -11    | 1        | 264      | 135      |
| 87852 PERITO MORENO AERO             | 4631S    | 07101W    | 429       |           | 962.9        | 1014.2         | 6.6         |        | 5.5            |        | 0             | T     |        |          | 216      | 60       |
| <b>87860 COMODORO RIVADAVIA AERO</b> | 4547S    | 06730W    | 58        |           | 1009.8       | 1015.4         | 10.8        | .9     | 5.3            | -7     | 3             | 14    | 2      | 4        | 223      | 149      |
| 87896 PUERTO DESEADO AERO            | 4744S    | 06555W    | 81        |           | 1003.1       |                | 8.4         | 1.0    | 6.3            | -3     | 1             | 6     | -7     | 3        | 150      | 132      |
| 87904 EL CALAFATE AERO               | 5016S    | 07203W    | 204       |           | 985.3        | 1009.8         | 5.9         |        | 4.9            |        | 1             | 4     |        |          | 201      |          |
| 87909 SAN JULIAN AERO                | 4919S    | 06745W    | 62        |           | 1003.8       | 1011.4         | 8.2         |        | 6.1            |        | 1             | 4     |        | 2        | 168      |          |
| <b>87925 RIO GALLEGOS AERO</b>       | 5137S    | 06917W    | 20        |           | 1005.3       | 1007.6         | 5.8         | .2     | 5.6            | -4     | 3             | 12    | 1      | 4        | 144      |          |
| 87938 USHUAIA AERO                   | 5448S    | 06819W    | 57        |           | 994.2        | 1001.0         | 4.7         | .6     | 5.8            | -5     | 7             | 22    | -19    | 1        | 85       |          |
| <b>ISLANDS</b>                       |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 88903 GRYPVIKEN,                     | 5416S    | 03630W    | 3         |           | 1000.6       | 1000.8         | 1.5         |        | 4.4            |        |               |       |        |          | 140      |          |
| <b>ANTARCTICA</b>                    |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>ARGENTINA (ANTARCTIC)</b>         |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |

# SURFACE

# SEPTEMBER 2009

| STATION                                  | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|--|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|  |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>88963 BASE ESPERANZA</b>              | 6324S    | 05659W    | 24        |           |              |                | -6.6        | .4     | 3.4            |        | 0             | 0     | -62    | 0        | 76       |          |
| <b>88968 BASE ORCADAS</b>                | 6044S    | 04444W    | 8         |           | 993.1        | 994.4          | -5.6        | -.1    | 4.0            |        | 9             | 19    | -29    | 1        | 20       |          |
| 89034 BASE BELGRANO II                   | 7752S    | 03437W    | 256       |           | 956.9        | 990.2          | -18.0       |        | 1.1            |        | 9             | 41    |        |          | 73       |          |
| 89053 BASE JUBANY                        | 6214S    | 05838W    | 11        |           | 989.5        | 990.9          | -3.8        |        | 4.4            |        | 4             | 21    |        |          | 27       |          |
| 89055 BASE MARAMBIO (CENTRO MET. A       | 6414S    | 05643W    | 208       |           | 963.2        | 988.4          | -11.6       |        | 2.5            |        | 10            | 92    |        |          | 83       |          |
| 89066 BASE SAN MARTIN                    | 6807S    | 06708W    | 7         |           | 985.4        | 986.0          | -8.2        |        | 2.9            |        | 8             | 21    |        |          | 79       |          |
| <b>AUSTRALIA (ANTARCTIC)</b>             |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>89564 MAWSON</b>                      | 6736S    | 06252E    | 16        |           | 986.7        | 988.8          | -15.1       |        | 1.3            |        |               |       |        |          | 122      |          |
| <b>89571 DAVIS</b>                       | 6835S    | 07758E    | 23        |           | 984.6        | 987.7          | -13.2       |        | 1.4            |        | 1             | 6     | 4      | 5        | 91       |          |
| <b>89611 CASEY</b>                       | 6617S    | 11030E    | 42        |           | 979.4        | 984.9          | -10.5       |        | 2.3            |        | 8             | 21    |        |          | 70       |          |
| <b>CHILE (ANTARCTIC)</b>                 |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>89056 CENTRO MET. ANTARTICO PDTE.</b> | 6211S    | 05859W    | 48        |           | 984.3        | 989.6          | -4.8        |        | 3.9            | .1     | 16            | 60    |        | 4        | 26       |          |
| 89059 BASE BERNARDO O'HIGGINS            | 6319S    | 05641W    | 10        |           | 987.3        | 988.5          | -5.6        | .0     | 3.4            | .1     | 7             | 21    | -66    | 1        | 36       |          |
| <b>FRANCE (ANTARCTIC)</b>                |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>89642 DUMONT D'URVILLE</b>            | 6639S    | 14000E    | 43        |           | 990.4        | 996.0          | -14.3       |        | 1.4            |        |               |       |        |          | 164      |          |
| <b>GERMANY (ANTARCTIC)</b>               |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 89002 NEUMAYER                           | 7040S    | 00815W    | 50        |           | 983.1        | 988.5          | -23.9       |        | .8             |        |               |       |        |          | 143      |          |
| <b>JAPAN (ANTARCTIC)</b>                 |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>89532 SYOWA</b>                       | 6900S    | 03935E    | 21        |           | 982.7        | 985.6          | -16.7       | 1.2    | 1.3            | .2     |               |       |        |          | 144      |          |
| <b>UKRAINE (ANTARCTIC)</b>               |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>89063 VERNADSKY</b>                   | 6515S    | 06416W    | 11        |           | 985.8        | 986.9          | -4.2        |        | 3.5            |        | 9             | 26    |        |          |          |          |
| <b>UNITED KINGDOM (ANTARCTIC)</b>        |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>89022 HALLEY</b>                      | 7535S    | 02639W    | 35        |           | 985.6        | 989.4          | -28.6       |        | .7             |        |               |       |        |          |          |          |
| <b>89062 ROTHERA</b>                     | 6734S    | 06808W    | 33        |           | 980.5        | 984.6          | -7.4        |        | 3.0            |        |               |       |        |          | 117      |          |
| 89065 FOSSIL BLUFF                       | 7120S    | 06817W    | 69        |           | 975.9        | 984.0          | -13.5       |        | 1.8            |        |               |       |        |          |          |          |
| <b>ANTARCTIC</b>                         |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>89050 BELLINGSHAUSEN AWS</b>          | 6212S    | 05856W    | 16        |           | 988.0        | 990.0          | -4.5        |        | 4.2            |        | 20            | 81    |        |          | 29       |          |
| <b>89512 NOVOLAZAREVSKAJA</b>            | 7046S    | 01150E    | 119       |           | 970.9        | 986.3          | -16.4       |        | .8             |        | 1             | 3     |        | 1        | 157      |          |
| <b>89592 MIRNYJ</b>                      | 6633S    | 09301E    | 40        |           | 980.1        | 985.8          | -12.9       |        | 1.9            |        | 7             | 25    |        |          |          |          |
| <b>89606 VOSTOK</b>                      | 7827S    | 10650E    | 3488      |           | 623.7        |                | -64.2       |        | .0             |        | 0             | 0     |        |          | 157      |          |
| <b>SW PACIFIC</b>                        |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |

# SURFACE

# SEPTEMBER 2009

| STATION                                   | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|---|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|   |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>MALAYSIA (PENIN. MALAYSIA)</b>         |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 48601 PENANG/BAYAN LEPAS                  | 0518N    | 10010E    | 4         |           | 1009.5       | 1009.9         | 27.8        | 1.3    | 30.5           | .8     | 13            | 211   | -145   | 1        |          |          |
| 48615 KOTA BHARU                          | 0610N    | 10210E    | 5         |           | 1009.1       | 1009.7         | 27.4        | .7     | 29.0           | -.2    | 9             | 83    | -119   | 1        |          |          |
| 48647 KUALA LUMPUR/SUBANG                 | 0307N    | 10130E    | 27        |           | 1007.6       | 1010.1         | 27.7        | 1.3    | 28.0           | -.8    | 12            | 192   | 0      | 3        |          |          |
| <b>48657 KUANTAN</b>                      | 0347N    | 10310E    | 16        |           | 1007.9       | 1009.7         | 27.5        | 1.3    | 29.8           | .8     | 12            | 241   | 8      | 4        |          |          |
| 48665 MALACCA                             | 0216N    | 10210E    | 9         |           | 1009.5       | 1010.5         | 28.0        | 1.6    | 30.3           | .7     | 14            | 255   | 45     | 4        |          |          |
| 48674 MERSING                             | 0227N    | 10350E    | 45        |           | 1004.8       | 1009.8         | 26.1        | .4     | 29.0           | .2     | 14            | 149   | -30    | 2        |          |          |
| <b>SINGAPORE</b>                          |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 48698 SINGAPORE/CHANGI AIRPORT            | 0122N    | 10350E    | 16        |           | 1008.3       | 1010.1         | 28.3        | 1.5    | 31.4           | 1.8    | 11            | 109   | -68    | 2        | 168      | 108      |
| <b>USA (PACIFIC OCEAN NORTH)</b>          |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>91165 LIHUE, KAUAI, HAWAII</b>         | 2159N    | 15920W    | 32        |           | 1011.2       | 1016.2         | 26.1        | -.1    | 24.2           |        | 6             | 23    | -37    | 2        | 320      | 132      |
| 91182 HONOLULU, OAHU, HAWAII              | 2121N    | 15750W    | 5         |           | 1014.6       | 1015.2         | 28.1        | .9     | 22.1           |        | 2             | 4     | -15    | 2        |          |          |
| <b>91212 NWSO AGANA, GUAM, MARIANA IS</b> | 1328N    | 14440E    | 75        |           | 999.4        | 1007.5         | 27.8        | .0     | 30.7           |        | 25            | 367   | 25     | 4        |          |          |
| <b>91285 HILO/GEN. LYMAN, HAWAII, HAW</b> | 1943N    | 15500W    | 11        |           | 1014.6       | 1015.6         | 23.9        | -.7    | 23.3           |        | 28            | 176   | -40    | 4        |          |          |
| <b>91334 CHUUK, ECI</b>                   | 0727N    | 15150E    | 4         |           |              |                |             |        |                |        |               | 425   | 119    | 6        |          |          |
| <b>91348 POHNPEI, CAROLINE IS.</b>        | 0658N    | 15810E    | 38        |           |              |                |             |        |                |        |               | 411   | 4      | 4        |          |          |
| <b>91366 KWAJALEIN/BUCHOLZ AAF, MARSH</b> | 0844N    | 16740E    | 8         |           |              |                |             |        |                |        |               | 267   | -33    | 4        |          |          |
| <b>91376 MAJURO/MARSHALL IS. INTNL.</b>   | 0705N    | 17120E    | 3         |           |              |                |             |        |                |        |               | 386   | 71     | 5        |          |          |
| <b>91408 KOROR, PALAU WCI.</b>            | 0720N    | 13420E    | 30        |           |              |                |             |        |                |        |               | 348   | 47     | 4        |          |          |
| <b>91413 YAP, CAROLINE IS.</b>            | 0929N    | 13800E    | 16        |           |              |                |             |        |                |        |               | 422   | 79     | 6        |          |          |
| <b>NEW CALEDONIA</b>                      |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>91577 KOUMAC (NLE-CALEDONIE)</b>       | 2034S    | 16417E    | 24        |           | 1012.9       | 1015.0         | 21.8        | .8     | 18.8           |        | 2             | 23    | -16    |          |          |          |
| <b>91592 NOUMEA (NLE-CALEDONIE)</b>       | 2217S    | 16627E    | 72        |           | 1007.6       | 1015.6         | 21.3        | .8     | 17.8           |        | 8             | 81    | 42     |          | 235      | 106      |
| <b>DETACHED ISLANDS</b>                   |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 91753 HIHIFO (ILE WALLIS)                 | 1314S    | 17611W    | 27        |           | 1007.9       | 1010.9         | 27.0        |        | 29.3           |        | 14            | 114   |        |          | 150      |          |
| <b>SAMOA AND AMERICAN SAMOA</b>           |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>91765 PAGO PAGO/INT.AIRP.</b>          | 1420S    | 17040W    | 6         |           |              |                |             |        |                |        |               | 160   |        | 4        |          |          |
| <b>NIUE</b>                               |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 91824 HANAN AIRPORT                       | 1905S    | 16950W    | 59        |           |              |                | 23.0        |        |                |        |               |       |        |          |          |          |
| <b>COOK ISLANDS</b>                       |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 91843 RAROTONGA                           | 2112S    | 15940W    | 7         |           | 1016.6       | 1017.3         |             |        | 21.1           |        |               |       |        |          | 162      |          |

# SURFACE

# SEPTEMBER 2009

| STATION   | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|---|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|   |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>FRENCH POLY. (MARQUESAS IS)</b><br>91925 ATUONA  | 0949S    | 13902W    | 53        |           | 1006.3       | 1012.3         | 26.3        |        | 26.7           |        | 12            | 47    | -21    |          | 191      | 86       |
| <b>FRENCH POLY. (SOCIETY IS)</b><br>91929 BORA-BORA | 1627S    | 15145W    | 3         |           | 1013.3       | 1013.6         | 26.2        |        | 25.7           |        | 11            | 147   |        |          |          |          |
| 91938 TAHITI-FAAA                                   | 1733S    | 14937W    | 2         |           | 1014.1       | 1014.3         | 26.2        |        | 24.4           |        | 8             | 200   | 154    | 6        | 185      | 77       |
| <b>FRENCH POLY. (TUAMOTU IS)</b><br>91943 TAKAROA   | 1429S    | 14502W    | 3         |           | 1013.3       | 1013.6         | 26.8        |        | 27.6           |        | 14            | 174   | 91     |          |          |          |
| 91945 HEREHERETUE                                   | 1954S    | 14557W    | 3         |           | 1016.2       | 1016.5         | 24.5        |        | 23.8           |        | 8             | 75    |        |          |          |          |
| 91948 RIKITEA                                       | 2308S    | 13458W    | 91        |           | 1009.8       | 1020.2         | 21.6        |        | 20.5           |        | 8             | 38    | -92    |          | 166      | 98       |
| <b>FRENCH POLY. (AUSTRAL IS)</b><br>91954 TUBUAI    | 2321S    | 14929W    | 3         |           | 1017.4       | 1017.7         | 21.4        |        | 20.6           |        | 10            | 200   | 102    |          | 145      | 77       |
| 91958 RAPA  | 2737S    | 14420W    | 2         |           | 1020.7       | 1020.9         | 18.7        |        | 17.2           |        | 9             | 209   |        |          | 114      |          |
| <b>PAPUA NEW GUINEA</b><br>92004 WEWAK W.O.         | 0335S    | 14340E    | 6         |           | 1008.7       | 1009.1         |             |        | 31.7           |        | 9             | 235   |        |          |          |          |
| 92014 MADANG W.O.                                   | 0513S    | 14540E    | 5         |           | 1008.7       | 1009.3         |             |        | 30.0           |        | 10            | 140   |        | 3        |          |          |
| 92035 PORT MORESBY W.O.                             | 0923S    | 14710E    | 48        |           | 1003.7       | 1009.5         |             |        | 26.7           |        | 2             | 7     |        |          |          |          |
| 92044 MOMOTE W.O.                                   | 0203S    | 14720E    | 4         |           | 1008.7       | 1009.3         |             |        | 31.3           |        | 14            | 276   |        | 4        |          |          |
| 92076 KAVIENG W.O.                                  | 0234S    | 15040E    | 4         |           | 1008.7       | 1009.2         |             |        | 32.2           |        | 13            | 368   |        |          |          |          |
| 92087 MISIMA W.O.                                   | 1041S    | 15250E    | 7         |           |              |                |             |        | 28.6           |        | 5             | 95    |        |          |          |          |
| <b>NEW ZEALAND</b><br>93012 KAITAIA                 | 3506S    | 17310E    | 54        |           |              |                | 13.9        |        | 13.7           |        | 12            | 171   | 56     | 5        | 174      | 105      |
| 93292 GISBORNE AERODROME AWS                        | 3839S    | 17750E    | 5         |           |              | 1018.2         | 12.5        | .8     | 11.7           |        | 10            | 67    | -26    | 4        |          |          |
| 93309 NEW PLYMOUTH AWS                              | 3901S    | 17410E    | 32        |           |              | 1017.8         | 11.4        |        | 12.6           |        | 15            | 129   |        | 3        |          |          |
| 93417 PARAPARAUMU AERODROME                         | 4054S    | 17450E    | 12        |           |              | 1017.5         | 11.0        | .2     | 10.8           |        | 11            | 92    | 7      | 4        | 165      | 110      |
| 93615 HOKITIKA AERODROME AWS                        | 4243S    | 17050E    | 45        |           |              | 1016.8         | 9.6         |        | 10.3           |        | 15            | 150   |        | 2        |          |          |
| 93678 KAIKOURA                                      | 4225S    | 17340E    | 105       |           |              | 1014.9         | 10.4        |        | 7.9            |        | 5             | 40    |        | 3        |          |          |
| 93780 CHRISTCHURCH                                  | 4329S    | 17230E    | 38        |           |              | 1014.7         | 9.2         |        | 9.3            |        | 6             | 33    |        | 3        | 198      | 120      |
| 93844 INVERCARGILL AERODROME                        | 4625S    | 16810E    | 4         |           |              | 1012.4         | 8.7         | .4     | 9.2            |        | 13            | 63    | -18    | 3        | 130      | 95       |
| 93947 CAMPBELL ISLAND AWS                           | 5233S    | 16900E    | 19        |           |              | 1006.4         | 6.4         |        | 8.7            |        | 16            | 82    |        | 1        |          |          |
| 93987 CHATHAM ISLANDS AWS                           | 4357S    | 17630W    | 49        |           |              | 1016.5         | 9.2         |        | 9.1            |        | 8             | 67    |        | 3        |          |          |
| 93994 RAOUL ISLAND, KERMADEC IS. A                  | 2915S    | 17750W    | 49        |           |              | 1018.5         | 17.0        |        | 15.8           |        | 13            | 242   |        | 5        |          |          |
| <b>AUSTRALIA</b><br>94120 DARWIN AIRPORT            | 1225S    | 13050E    | 35        |           | 1007.4       | 1011.3         | 28.3        |        | 25.1           |        | 3             | 36    | 18     | 5        | 297      | 101      |
| 94131 TINDAL RAAF                                   | 1431S    | 13220E    | 135       |           | 995.9        | 1011.1         | 29.6        |        | 14.8           |        | 1             | 1     |        | 3        |          |          |

# SURFACE

# SEPTEMBER 2009

| STATION                           | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|-----------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                   |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| 94150 GOVE AIRPORT                | 1217S    | 13640E    | 54        |           | 1005.9       | 1012.0         | 25.2        |        | 23.0           |        | 0             | 0     |        | 4        | 280      | 95       |
| 94170 WEIPA AERO                  | 1241S    | 14150E    | 19        |           | 1010.0       | 1012.2         | 26.6        |        | 20.9           |        | 0             | 0     |        |          | 274      |          |
| 94203 BROOME AIRPORT              | 1757S    | 12210E    | 17        |           | 1011.2       | 1012.2         | 26.0        |        | 19.2           |        | 0             | 0     | -1     | 1        | 325      |          |
| 94212 HALLS CREEK AIRPORT         | 1814S    | 12740E    | 424       |           | 963.6        | 1011.1         | 29.0        |        | 7.7            |        | 0             | 0     | -6     | 1        |          |          |
| 94238 TENNANT CREEK MET OFFICE    | 1938S    | 13410E    | 377       |           | 970.2        | 1012.8         | 26.3        |        | 7.5            |        | 2             | 6     | -4     | 3        | 289      | 94       |
| 94287 CAIRNS AERO                 | 1653S    | 14540E    | 8         |           | 1013.8       | 1014.7         | 24.2        |        | 19.1           |        | 1             | 3     | -30    | 1        | 283      | 114      |
| 94294 TOWNSVILLE AERO             | 1915S    | 14640E    | 9         |           | 1014.4       | 1015.5         | 23.8        |        | 18.1           |        | 2             | 4     | -6     | 4        | 301      | 106      |
| 94299 WILLIS ISLAND               | 1618S    | 14950E    | 9         |           | 1013.3       | 1014.3         | 25.2        |        | 21.1           |        |               |       |        |          |          |          |
| 94300 CARNARVON AIRPORT           | 2453S    | 11340E    | 8         |           | 1016.5       | 1017.4         | 18.4        |        | 12.5           |        | 3             | 4     | -1     | 3        |          |          |
| 94302 LEARMONTH AIRPORT           | 2214S    | 11400E    | 6         |           | 1015.1       | 1015.7         | 20.7        |        | 10.5           |        | 0             | 0     | -3     | 1        |          |          |
| 94312 PORT HEDLAND AIRPORT        | 2022S    | 11830E    | 10        |           | 1011.8       | 1012.8         | 23.4        |        | 13.7           |        | 0             | 0     | -1     | 1        |          |          |
| 94313 WITTENOOM                   | 2215S    | 11820E    | 464       |           | 960.8        | 1013.0         |             |        | 6.8            |        | 0             | 0     |        | 4        |          |          |
| 94317 NEWMAN AERO                 | 2325S    | 11940E    | 526       |           | 954.4        | 1013.7         | 21.0        |        | 5.5            |        | 0             | 0     |        | 4        |          |          |
| 94326 ALICE SPRINGS AIRPORT       | 2348S    | 13350E    | 547       |           | 952.3        | 1014.8         | 22.3        |        | 6.2            |        | 2             | 6     | -4     | 4        | 304      | 101      |
| 94332 MOUNT ISA AERO              | 2041S    | 13920E    | 342       |           | 975.1        | 1014.0         | 22.8        |        | 7.6            |        | 1             | 4     | -4     | 4        | 310      | 101      |
| 94339 WINTON POST OFFICE          | 2223S    | 14300E    | 184       |           | 993.6        | 1014.7         | 23.6        |        | 11.1           |        | 0             | 0     |        | 3        |          |          |
| 94340 RICHMOND POST OFFICE        | 2044S    | 14300E    | 214       |           | 989.7        | 1014.3         |             |        | 10.3           |        | 0             | 0     |        | 3        |          |          |
| 94346 LONGREACH AERO              | 2326S    | 14410E    | 192       |           | 992.6        | 1015.0         | 22.3        |        | 7.0            |        | 1             | 12    | 4      | 4        |          |          |
| 94367 MACKAY MO                   | 2107S    | 14910E    | 33        |           | 1011.8       | 1016.0         | 22.4        |        | 18.4           |        | 0             | 0     | -15    | 1        | 257      | 85       |
| 94374 ROCKHAMPTON AERO            | 2323S    | 15020E    | 14        |           | 1014.4       | 1016.1         | 22.0        |        | 14.0           |        |               |       |        |          |          |          |
| 94380 GLADSTONE RADAR             | 2351S    | 15110E    | 75        |           | 1008.0       | 1016.7         | 22.0        |        | 16.4           |        | 3             | 9     |        | 2        |          |          |
| 94403 GERALDTON AIRPORT           | 2848S    | 11440E    | 37        |           | 1014.4       | 1018.7         | 14.2        |        | 11.5           |        | 8             | 39    | 8      | 4        |          |          |
| 94430 MEEKATHARRA AIRPORT         | 2637S    | 11830E    | 522       |           | 956.4        | 1015.7         | 17.0        |        | 6.1            |        | 1             | 3     | -3     | 4        |          |          |
| 94461 GILES METEOROLOGICAL OFFICE | 2502S    | 12810E    | 599       |           | 945.8        | 1013.5         | 21.6        |        | 5.1            |        | 1             | 6     | -5     | 4        | 310      | 102      |
| 94476 OODNADATTA AIRPORT          | 2733S    | 13520E    | 118       |           | 1001.1       | 1014.9         | 20.5        |        | 8.1            |        | 2             | 41    |        | 5        |          |          |
| 94480 MARREE                      | 2939S    | 13800E    | 51        |           | 1009.6       | 1015.6         |             |        | 10.0           |        | 2             | 12    |        | 4        |          |          |
| 94485 TIBOOBURRA POST OFFICE      | 2926S    | 14200E    | 184       |           |              |                |             |        | 7.5            |        | 3             | 10    | -2     | 4        |          |          |
| 94510 CHARLEVILLE AERO            | 2625S    | 14610E    | 306       |           | 980.5        | 1015.7         | 19.5        |        | 7.1            |        | 2             | 14    | -7     | 3        |          |          |
| 94517 ST GEORGE AIRPORT           | 2803S    | 14830E    | 200       |           | 992.3        | 1015.6         | 18.8        |        | 8.4            |        | 2             | 21    |        |          |          |          |
| 94568 AMBERLEY AMO                | 2738S    | 15240E    | 31        |           | 1013.4       | 1017.1         | 17.9        |        | 11.7           |        | 3             | 31    | -2     | 3        |          |          |
| 94570 TEWANTIN RSL PARK           | 2623S    | 15300E    | 7         |           | 1016.1       | 1016.9         | 19.2        |        | 15.0           |        | 2             | 27    |        |          |          |          |
| 94578 BRISBANE AERO               | 2723S    | 15300E    | 10        |           | 1015.4       | 1016.5         | 19.0        |        | 13.8           |        | 2             | 11    | -22    | 1        | 299      |          |
| 94589 YAMBA PILOT STATION         | 2926S    | 15320E    | 30        |           | 1012.4       | 1015.7         | 18.3        |        | 14.2           |        | 2             | 21    |        | 2        |          |          |
| 94601 CAPE LEEUWIN                | 3422S    | 11500E    | 14        |           | 1013.1       | 1014.8         | 13.7        |        | 10.7           |        | 20            | 120   |        | 4        |          |          |
| 94602 ROTTNESST ISLAND            | 3201S    | 11530E    | 43        |           | 1011.4       | 1016.6         | 14.6        |        | 11.1           |        | 15            | 63    |        | 4        |          |          |
| 94610 PERTH AIRPORT               | 3156S    | 11550E    | 20        |           | 1014.5       | 1016.9         | 13.4        |        | 10.7           |        | 18            | 94    | 23     | 4        | 191      |          |
| 94619 DALWALLINU COMPARISON       | 3017S    | 11640E    | 338       |           |              |                |             |        | 10.2           |        | 7             | 29    |        | 4        |          |          |
| 94635 LAKE GRACE COMPARISON       | 3307S    | 11820E    | 287       |           |              |                |             |        | 9.2            |        | 8             | 34    |        | 4        |          |          |
| 94637 KALGOORLIE-BOULDER AIRPORT  | 3047S    | 12120E    | 370       |           | 972.1        | 1015.4         | 13.7        |        | 6.7            |        | 4             | 11    | -1     | 3        |          |          |
| 94638 ESPERANCE                   | 3350S    | 12150E    | 27        |           | 1011.1       | 1014.3         | 12.4        |        | 9.6            |        | 12            | 86    | 33     | 5        |          |          |
| 94647 EUCLA                       | 3141S    | 12850E    | 102       |           | 1002.1       | 1014.2         | 14.2        |        | 9.3            |        | 6             | 31    |        | 4        |          |          |
| 94653 CEDUNA AMO                  | 3208S    | 13340E    | 24        |           | 1012.2       | 1014.1         | 15.2        |        | 9.7            |        | 5             | 30    | 2      | 4        | 260      | 108      |
| 94659 WOOMERA AERODROME           | 3109S    | 13640E    | 168       |           | 994.7        | 1014.6         | 17.2        |        | 6.9            |        | 1             | 12    | -4     | 4        | 268      | 100      |
| 94672 ADELAIDE AIRPORT            | 3457S    | 13830E    | 8         |           | 1012.4       | 1013.4         | 14.4        |        | 10.0           |        | 8             | 50    | 10     | 4        | 199      | 85       |
| 94681 NURIOOTPA VITICULTURAL      | 3429S    | 13900E    | 276       |           | 981.2        | 1014.0         | 11.6        |        | 9.4            |        | 9             | 64    | 6      | 4        |          |          |
| 94689 BROKEN HILL (PATTON STREET) | 3159S    | 14120E    | 315       |           |              |                |             |        | 7.6            |        | 3             | 9     |        | 2        |          |          |



# SURFACE

# SEPTEMBER 2009

| STATION                                 | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|---|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|   |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| <b>94693 MILDURA AIRPORT</b>            | 3414S    | 14200E    | 53        |           | 1007.8       | 1014.1         | 14.9        |        | 7.8            |        | 5             | 29    | 2      | 4        | 260      | 100      |
| <b>94711 COBAR MO</b>                   | 3129S    | 14550E    | 264       |           | 984.2        | 1015.2         | 16.3        |        | 7.3            |        | 3             | 17    | -6     | 3        | 270      | 100      |
| 94738 SCONE SCS                         | 3204S    | 15050E    | 216       |           |              |                |             |        | 10.2           |        | 4             | 28    |        | 2        |          |          |
| 94740 GUNNEDAH SCS                      | 3102S    | 15010E    | 307       |           |              |                |             |        | 10.1           |        | 5             | 72    |        | 5        |          |          |
| 94750 NOWRA RAN AIR STATION AWS         | 3457S    | 15030E    | 122       |           | 1000.1       | 1012.6         | 15.5        |        | 9.7            |        | 7             | 29    | -32    | 1        |          |          |
| 94767 SYDNEY AIRPORT AMO                | 3356S    | 15110E    | 6         |           | 1012.8       | 1013.4         | 17.7        |        | 10.8           |        | 4             | 22    | -37    | 2        | 264      | 113      |
| 94776 WILLIAMTOWN RAAF                  | 3248S    | 15150E    | 10        |           | 1012.7       | 1013.8         | 16.1        |        | 11.1           |        | 4             | 22    | -36    | 2        | 244      | 108      |
| 94786 PORT MACQUARIE AIRPORT AWS        | 3126S    | 15250E    | 5         |           | 1014.3       | 1014.9         | 16.1        |        | 11.6           |        | 2             | 11    |        |          |          |          |
| 94791 COFFS HARBOUR MO                  | 3019S    | 15300E    | 6         |           | 1014.4       | 1015.2         | 17.3        |        | 12.4           |        | 4             | 9     | -52    | 1        | 280      | 114      |
| <b>94802 ALBANY AIRPORT</b>             | 3456S    | 11740E    | 71        |           | 1005.1       | 1013.5         | 11.1        |        | 9.8            |        | 19            | 131   | 50     | 5        | 184      |          |
| 94812 ROBE                              | 3710S    | 13940E    | 4         |           | 1011.7       | 1012.2         |             |        | 11.4           |        | 15            | 81    |        | 5        |          |          |
| 94814 STRATHALBYN RACECOURSE            | 3517S    | 13850E    | 58        |           | 1005.9       | 1012.9         | 12.9        |        | 9.8            |        | 11            | 90    |        | 6        |          |          |
| <b>94821 MOUNT GAMBIER AERO</b>         | 3744S    | 14040E    | 69        |           | 1003.4       | 1011.7         | 11.0        |        | 10.0           |        | 12            | 112   | 41     | 5        | 186      | 113      |
| 94826 CAPE NELSON LIGHTHOUSE            | 3826S    | 14130E    | 47        |           | 1005.3       | 1010.9         | 12.3        |        | 10.7           |        | 12            | 97    |        | 4        |          |          |
| <b>94842 CAPE OTWAY LIGHTHOUSE</b>      | 3851S    | 14330E    | 83        |           | 1000.7       | 1010.7         | 11.9        |        | 9.8            |        | 15            | 107   |        | 4        |          |          |
| 94865 LAVERTON RAAF                     | 3752S    | 14440E    | 20        |           | 1009.3       | 1011.8         | 12.9        |        | 9.4            |        | 10            | 59    | 11     | 4        |          |          |
| 94866 MELBOURNE AIRPORT                 | 3740S    | 14450E    | 132       |           | 997.9        | 1012.2         | 12.3        |        | 8.4            |        | 9             | 54    | 8      | 4        | 179      |          |
| 94893 WILSONS PROMONTORY LIGHTHOUS      | 3907S    | 14620E    | 97        |           | 997.9        | 1009.5         | 12.5        |        | 10.4           |        | 15            | 142   |        | 5        |          |          |
| <b>94907 EAST SALE AIRPORT</b>          | 3806S    | 14700E    | 8         |           | 1010.2       | 1011.2         | 11.7        |        | 9.3            |        | 12            | 64    | 12     | 5        | 203      | 106      |
| <b>94910 WAGGA WAGGA AMO</b>            | 3510S    | 14720E    | 221       |           | 988.7        | 1014.3         | 12.1        |        | 8.7            |        | 6             | 32    | -17    | 2        | 228      | 100      |
| 94917 ORBOST (COMPARISON)               | 3741S    | 14820E    | 42        |           |              |                |             |        | 9.9            |        | 12            | 93    |        | 5        |          |          |
| 94926 CANBERRA AIRPORT                  | 3518S    | 14910E    | 580       |           | 946.2        | 1014.2         | 10.9        |        | 8.2            |        | 8             | 56    | 1      | 3        | 252      | 114      |
| <b>94937 MORUYA HEADS PILOT STATION</b> | 3555S    | 15000E    | 17        |           | 1009.5       | 1011.5         |             |        | 11.3           |        | 6             | 44    |        | 3        |          |          |
| 94954 CAPE GRIM BAPS                    | 4040S    | 14440E    | 94        |           | 998.2        | 1009.3         | 11.2        |        | 10.3           |        | 21            | 104   |        | 4        |          |          |
| <b>94967 CAPE BRUNY LIGHTHOUSE</b>      | 4330S    | 14700E    | 55        |           | 999.9        | 1006.6         | 10.8        |        | 9.3            |        | 18            | 107   |        | 4        |          |          |
| 94975 HOBART AIRPORT                    | 4250S    | 14730E    | 27        |           | 1004.0       | 1007.3         | 11.1        |        | 8.7            |        | 11            | 98    | 59     | 6        | 183      | 103      |
| 94983 EDDYSTONE POINT                   | 4100S    | 14820E    | 21        |           | 1006.4       | 1008.9         | 11.6        |        | 11.0           |        | 14            | 158   |        | 6        |          |          |
| 95322 RABBIT FLAT                       | 2011S    | 13000E    | 340       |           | 973.5        | 1011.8         | 26.7        |        | 6.4            |        | 0             | 0     |        |          | 300      |          |
| 95527 MOREE AERO                        | 2929S    | 14950E    | 218       |           | 990.4        | 1016.0         | 16.5        |        | 8.7            |        | 4             | 23    |        |          | 263      | 90       |
| <b>95646 FORREST</b>                    | 3050S    | 12800E    | 160       |           | 995.8        | 1014.8         | 14.8        |        | 7.5            |        | 1             | 6     |        |          |          |          |
| 95670 RAYVILLE PARK                     | 3347S    | 13810E    | 109       |           | 1001.3       | 1014.3         | 11.9        |        | 9.6            |        | 5             | 75    |        | 5        |          |          |
| 95719 DUBBO AIRPORT AWS                 | 3213S    | 14830E    | 285       |           | 981.8        | 1015.5         | 14.0        |        | 9.0            |        | 4             | 35    |        |          |          |          |
| <b>95753 RICHMOND RAAF</b>              | 3336S    | 15040E    | 21        |           | 1011.4       | 1013.8         | 15.7        |        | 10.6           |        | 1             | 4     |        |          |          |          |
| 95869 DENILIKUIN AIRPORT AWS            | 3534S    | 14450E    | 96        |           | 1002.0       | 1013.3         | 13.0        |        | 8.1            |        | 7             | 32    |        | 3        |          |          |
| 95916 CABRAMURRA SMHEA                  | 3556S    | 14820E    | 1483      |           |              |                | 4.8         |        | 6.8            |        | 13            | 155   |        |          |          |          |
| 95964 LOW HEAD                          | 4103S    | 14640E    | 4         |           | 1008.4       | 1008.8         | 11.8        |        | 10.6           |        | 15            | 87    |        |          |          |          |
| 95971 GROVE RESEARCH STATION            | 4259S    | 14700E    | 63        |           |              |                |             |        | 10.4           |        | 15            | 169   |        | 5        | 139      | 90       |
| <b>AUSTRALIA (ADDITIONAL IS.)</b>       |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>94995 LORD HOWE ISLAND AERO</b>      | 3132S    | 15900E    | 7         |           | 1015.7       | 1016.5         | 18.0        |        | 14.5           |        | 10            | 62    | -61    | 0        |          |          |
| <b>94996 NORFOLK ISLAND AERO</b>        | 2902S    | 16750E    | 117       |           | 1004.0       | 1017.8         | 16.9        |        | 14.4           |        | 11            | 121   | 19     | 4        | 175      | 83       |
| <b>94998 MACQUARIE ISLAND</b>           | 5430S    | 15850E    | 8         |           | 1001.5       | 1002.5         | 4.2         |        | 7.3            |        | 15            | 69    | -2     | 2        | 61       | 97       |
| <b>INDONESIA</b>                        |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>96073 SIBOLGA/PINANGSORI</b>         | 0133N    | 09853E    | 3         |           |              | 1010.3         | 26.3        |        | 28.6           |        | 15            | 527   |        | 3        | 122      | 60       |

# SURFACE

# SEPTEMBER 2009

| STATION                                | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |     |
|--|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|-----|
|  |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |     |
| 96109 PEKAN BARU/SIMPANGTIGA           | 0028N    | 10120E    | 31        |           |              | 1009.0         | 27.9        |        |                | 28.3   |               | 17    | 243    |          | 4        | 168      |     |
| 96171 RENGAT/JAPURA                    | 0020S    | 10210E    | 46        |           |              | 1009.7         | 26.9        |        |                | 28.9   |               | 12    | 237    |          |          | 117      | 120 |
| 96221 PALEMBANG/ST. M. BADARUDIN I     | 0254S    | 10440E    | 10        |           | 1008.4       | 1010.1         | 28.3        |        |                | 28.1   |               | 5     | 22     |          |          | 176      | 90  |
| 96249 TANJUNG PANDAN/BULUH TUMBANG     | 0245S    | 10740E    | 44        |           | 1003.6       | 1009.7         | 27.6        |        |                | 27.8   |               | 5     | 37     |          | 1        | 205      | 120 |
| 96509 TARAKAN/JUWATA                   | 0320N    | 11730E    | 6         |           | 1008.6       | 1009.6         | 27.5        |        |                | 31.0   |               | 10    | 196    |          |          | 151      |     |
| 96581 PONTIANAK/SUPADIO                | 0009S    | 10920E    | 3         |           | 1008.8       | 1009.5         | 27.7        |        |                | 29.6   |               | 6     | 190    |          |          | 168      | 130 |
| 96633 BALIKPAPAN/SEPINGGAN             | 0116S    | 11650E    | 3         |           | 1009.0       | 1009.7         | 28.6        |        |                | 31.8   |               | 5     | 60     |          | 2        | 173      | 125 |
| <b>96745 JAKARTA/OBSERVATORY</b>       | 0611S    | 10650E    | 8         |           | 1010.1       | 1010.7         | 29.5        |        |                | 28.2   |               | 3     | 88     |          | 4        | 231      | 130 |
| 96749 JAKARTA/SOEKARNO-HATTA           | 0607S    | 10630E    | 8         |           |              | 1010.7         | 28.3        |        |                | 27.5   |               | 3     | 33     |          |          | 239      |     |
| 96791 CIREBON/JATIWANGI                | 0645S    | 10810E    | 50        |           | 1004.7       | 1010.6         | 29.2        |        |                | 23.8   |               | 0     | 0      |          | 2        | 241      |     |
| 96797 TEGAL                            | 0651S    | 10900E    | 10        |           | 1010.1       | 1010.4         | 28.2        |        |                | 25.9   |               | 2     | 20     |          |          | 265      | 120 |
| <b>96805 CILACAP</b>                   | 0744S    | 10900E    | 6         |           | 1012.3       | 1013.3         | 26.6        |        |                | 27.8   |               | 8     | 26     |          |          | 236      | 100 |
| 96837 SEMARANG                         | 0658S    | 11020E    | 3         |           | 1010.3       | 1010.7         | 29.0        |        |                | 31.2   |               | 4     | 58     |          | 0        | 281      | 315 |
| 96933 SURABAYA/PERAK I                 | 0713S    | 11240E    | 3         |           | 1010.3       | 1011.0         | 29.3        |        |                | 26.4   |               | 0     | 0      |          | 3        | 237      | 135 |
| <b>97014 MENADO/ SAM RATULANGI</b>     | 0132N    | 12450E    | 80        |           | 1000.3       | 1009.6         | 27.3        |        |                | 25.2   |               | 1     | 30     |          | 1        | 207      | 115 |
| 97072 PALU/MUTIARA                     | 0041S    | 11940E    | 6         |           |              | 1010.2         | 28.7        |        |                | 39.4   |               | 2     | 10     |          |          | 217      | 200 |
| <b>97146 KENDARI/WOLTER MONGINSIDI</b> | 0406S    | 12220E    | 50        |           |              | 1010.1         | 27.6        |        |                |        |               | 3     | 20     |          |          |          |     |
| 97180 UJUNG PANDANG/HASANUDDIN         | 0504S    | 11930E    | 14        |           | 1008.2       | 1010.0         | 28.2        |        | 25.8           |        |               | 4     | 91     |          | 5        | 263      | 100 |
| 97230 DENPASAR/NGURAH RAI              | 0845S    | 11510E    | 1         |           | 1011.4       | 1012.1         | 26.4        |        |                | 29.2   |               | 13    | 443    |          | 5        | 200      |     |
| <b>97240 MATARAM/SELAPARANG</b>        | 0832S    | 11600E    | 3         |           |              | 1012.4         | 26.9        |        |                | 24.5   |               | 8     | 543    |          | 4        | 178      | 60  |
| <b>97340 WAINGAPU/MAU HAU</b>          | 0940S    | 12020E    | 12        |           |              | 1011.7         | 27.2        |        |                | 26.8   |               | 1     | 11     |          | 5        | 193      | 85  |
| <b>97372 KUPANG/ELTARI</b>             | 1010S    | 12340E    | 108       |           | 1009.8       | 1010.5         | 28.0        |        |                | 27.5   |               | 0     | 0      |          |          | 234      | 100 |
| <b>97502 SORONG/JEFMAN</b>             | 0056S    | 13100E    | 3         |           | 1008.7       | 1009.1         | 26.0        |        |                | 30.5   |               | 9     | 133    |          |          | 175      |     |
| <b>97560 BIAK/FRANS KAISIEPO</b>       | 0111S    | 13600E    | 11        |           | 1007.4       | 1008.9         | 27.6        |        |                | 30.5   |               | 11    | 198    |          | 6        | 149      |     |
| <b>97686 WAMENA</b>                    | 0404S    | 13850E    | 1660      |           | 835.5        | 1008.7         | 19.1        |        |                |        |               | 17    | 185    |          | 4        | 99       |     |
| 97690 JAYAPURA/SENTANI                 | 0234S    | 14020E    | 99        |           | 998.5        | 1008.6         | 27.2        |        | 30.3           |        |               | 12    | 120    |          |          | 68       |     |
| <b>97724 AMBON/PATIMURA</b>            | 0342S    | 12800E    | 12        |           |              | 1009.9         | 26.1        |        |                | 28.8   |               | 9     | 135    |          |          | 158      | 70  |
| <b>97900 SAUMLAKI/OLILIT</b>           | 0759S    | 13110E    | 24        |           | 1009.4       | 1012.4         | 27.5        |        |                | 27.9   |               | 0     | 0      |          |          | 266      | 110 |
| <b>97980 MERAUKE/MOPAH</b>             | 0828S    | 14020E    | 3         |           | 1009.7       | 1010.4         | 26.6        |        |                | 25.6   |               | 6     | 52     |          | 4        | 223      | 95  |
| <b>BRUNEI DARUSSALAM</b>               |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |     |
| 96315 BRUNEI AIRPORT                   | 0456N    | 11450E    | 22        |           | 1008.1       | 1009.0         | 28.1        |        |                | 30.7   | .7            | 8     | 146    | -139     | 1        | 200      | 101 |
| <b>MALAYSIA (SABAH AND SARAWAK)</b>    |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |     |
| <b>96413 KUCHING</b>                   | 0129N    | 11020E    | 27        |           | 1007.0       | 1009.6         | 27.6        |        |                | 29.6   |               | 12    | 131    |          | 1        |          |     |
| 96421 SIBU                             | 0220N    | 11150E    | 31        |           | 1006.4       | 1010.0         | 27.0        |        |                | 29.1   |               | 14    | 190    |          | 1        |          |     |
| <b>96441 BINTULU</b>                   | 0312N    | 11300E    | 5         |           | 1006.7       | 1009.4         | 27.2        | .6     |                | 30.0   |               | 10    | 129    | -166     | 1        |          |     |
| 96449 MIRI                             | 0420N    | 11350E    | 18        |           | 1007.3       | 1009.2         | 27.2        | .4     |                | 30.0   |               | 8     | 190    | -48      | 2        |          |     |
| <b>96465 LABUAN</b>                    | 0518N    | 11510E    | 30        |           | 1005.9       | 1009.2         | 28.1        |        |                | 31.5   | 1.2           | 10    | 134    |          | 1        |          |     |
| 96471 KOTA KINABALU                    | 0556N    | 11600E    | 3         |           | 1009.3       | 1009.6         | 28.1        |        |                | 30.0   |               | 14    | 224    |          | 2        |          |     |
| 96481 TAWAU                            | 0416N    | 11750E    | 20        |           | 1007.2       | 1009.1         | 27.3        |        |                | 29.9   |               | 10    | 105    | -73      | 1        |          |     |
| <b>96491 SANDAKAN</b>                  | 0554N    | 11800E    | 13        |           | 1007.5       | 1008.6         | 28.3        | 1.3    |                | 29.8   |               | 9     | 213    |          | 3        |          |     |
| <b>ISLANDS</b>                         |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |     |

# SURFACE

# SEPTEMBER 2009

| STATION                            | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        | SUNSHINE |       |          |
|------------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|-------|----------|
|                                    |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL | % of AV. |
| <b>96995 CHRISTMAS ISLAND AERO</b> | 1027S    | 10540E    | 279       |           | 983.5        | 1013.3         | 23.4        |        | 23.8           |        | 8             | 31    |        | 3        |       |          |
| <b>96996 COCOS ISLAND AERO</b>     | 1211S    | 09650E    | 4         |           | 1013.6       | 1013.9         | 25.6        |        | 24.2           |        | 9             | 62    | -22    | 3        |       |          |
| <b>PHILIPPINES</b>                 |          |           |           |           |              |                |             |        |                |        |               |       |        |          |       |          |
| 98223 LAOAG                        | 1811N    | 12030E    | 5         |           | 1004.9       | 1005.5         | 28.4        |        | 31.7           |        | 20            | 356   |        |          | 171   |          |
| <b>98232 APARRI</b>                | 1822N    | 12130E    | 3         |           | 1007.1       | 1007.4         | 28.4        | .4     | 32.6           | 1.0    | 5             | 348   | 112    |          |       |          |
| 98233 TUGUEGARAO                   | 1737N    | 12140E    | 62        |           | 998.7        | 1005.8         | 27.7        |        | 28.8           |        | 15            | 389   |        |          | 140   |          |
| 98328 BAGUIO                       | 1625N    | 12030E    | 1501      |           | 848.6        | 1005.1         | 19.0        |        | 20.6           |        | 30            | 517   |        |          | 160   | 25       |
| 98330 CABANATUAN                   | 1529N    | 12050E    | 32        |           | 1003.7       | 1006.9         | 28.0        |        | 33.6           |        | 21            | 527   |        |          |       |          |
| 98430 SCIENCE GARDEN               | 1438N    | 12100E    | 46        |           | 1001.4       | 1006.3         | 26.9        |        | 30.8           |        | 23            | 1124  |        |          | 80    |          |
| <b>98444 LEGASPI</b>               | 1308N    | 12340E    | 17        |           | 1004.8       | 1006.7         | 27.5        | -2     | 31.7           | 1.0    | 20            | 244   | -27    |          |       |          |
| 98550 TACLOBAN                     | 1115N    | 12500E    | 3         |           | 1006.5       | 1006.8         | 28.9        | 1.0    | 31.7           | 1.6    | 13            | 90    | -71    |          | 111   | 300      |
| <b>98637 ILOILO</b>                | 1042N    | 12230E    | 8         |           | 1003.5       | 1007.8         | 26.1        | -1.5   | 28.1           | -2.9   | 21            | 349   | 83     |          |       |          |
| 98646 MACTAN                       | 1018N    | 12350E    | 24        |           | 1006.9       | 1009.7         | 27.9        | -4     | 30.7           | .2     | 8             | 113   | -54    |          |       |          |
| <b>98653 SURIGAO</b>               | 0948N    | 12530E    | 55        |           | 1002.9       | 1007.4         | 28.8        | .7     | 31.7           | 1.3    | 9             | 140   | 18     |          |       |          |
| 98755 HINATUAN                     | 0822N    | 12620E    | 3         |           | 1007.5       | 1007.9         | 28.5        |        | 31.7           |        | 12            | 148   |        |          |       |          |
| <b>98836 ZAMBOANGA</b>             | 0654N    | 12200E    | 6         |           | 1008.6       | 1009.4         | 28.4        | .8     | 31.2           | 1.6    | 13            | 343   | 210    |          | 162   |          |

# SURFACE LATE REPORTS

| STATION                            | LATITUDE | LONGITUDE | ELEVATION | DAYS OBS. | PRESSURE     |                | TEMPERATURE |        | VAPOR PRESSURE |        | PRECIPITATION |       |        |          | SUNSHINE |          |
|------------------------------------|----------|-----------|-----------|-----------|--------------|----------------|-------------|--------|----------------|--------|---------------|-------|--------|----------|----------|----------|
|                                    |          |           |           |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART | MEAN           | DEPART | DAYS 1 MM     | TOTAL | DEPART | QUINTILE | TOTAL    | % of AV. |
| JUNE 2009                          |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>N AMERICA</b>                   |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
|                                    |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>EL SALVADOR</b>                 |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 78650 ACAJUTLA                     | 1334N    | 08950W    | 15        |           | 1011.0       |                | 28.2        | 1.9    | 31.7           |        |               |       |        |          |          |          |
| JULY 2009                          |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>N AMERICA</b>                   |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
|                                    |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>BELIZE</b>                      |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 78583 BELIZE/PHILLIP GOLDSTON INTL | 1732N    | 08818W    | 5         |           |              |                | 28.5        | .7     |                |        | 15            | 179   | -64    | 2        | 65       |          |
| AUGUST 2009                        |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>AFRICA</b>                      |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
|                                    |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| <b>SUDAN</b>                       |          |           |           |           |              |                |             |        |                |        |               |       |        |          |          |          |
| 62600 WADI HALFA                   | 2149N    | 03121E    | 190       |           | 987.4        | 1008.1         | 35.0        | 2.5    | 13.5           |        | 0             | 0     | -1     | 0        | 337      | 80       |
| 62640 ABU HAMED                    | 1932N    | 03319E    | 312       |           | 969.8        | 1003.9         | 36.3        | 1.8    | 13.0           |        | 1             | 100   | 94     | 5        | 304      | 75       |
| 62641 PORT SUDAN                   | 1935N    | 03713E    | 42        |           | 1001.5       | 1005.3         | 35.5        | 1.0    | 21.0           |        | 0             | 0     | -1     | 0        | 239      | 60       |
| 62650 DONGOLA                      | 1910N    | 03029E    | 226       |           | 980.1        | 1005.7         | 36.0        | 2.5    | 11.9           |        | 0             | T     | -003   |          | 289      | 70       |
| 62660 KARIMA                       | 1833N    | 03151E    | 249       |           | 977.9        | 1006.3         | 35.6        | 1.2    | 13.2           |        | 1             | 1     | -10    | 3        | 290      | 70       |
| 62680 ATBARA                       | 1742N    | 03358E    | 347       |           | 966.7        | 1004.6         |             |        | 28.4           |        | 2             |       |        |          | 278      |          |
| 62721 KHARTOUM                     | 1536N    | 03233E    | 382       |           | 964.0        | 1006.6         | 32.6        | 1.1    | 24.5           |        | 5             | 101   | 26     | 5        |          |          |
| 62730 KASSALA                      | 1528N    | 03624E    | 500       |           | 956.3        | 1011.7         | 30.5        | 1.4    | 26.9           |        | 6             | 31    | -54    | 1        |          |          |
| 62751 WAD MEDANI                   | 1424N    | 03329E    | 408       |           | 963.7        | 1009.0         | 28.1        | -.5    |                |        |               | 52    | -60    | 0        | 255      | 60       |
| 62752 GEDAREF                      | 1402N    | 03524E    | 599       |           | 942.0        | 1008.5         | 27.5        | 1.2    | 24.1           |        | 12            | 128   | -56    | 2        | 225      | 55       |
| 62760 EL FASHER                    | 1337N    | 02520E    | 733       |           | 926.9        | 1005.9         | 29.6        | 1.7    | 21.1           |        | 6             | 38    | -49    | 1        | 315      | 55       |
| 62762 SENNAR                       | 1333N    | 03337E    | 418       |           | 960.1        | 1006.7         | 27.9        | -.1    | 26.8           |        | 8             | 26    | -109   | 5        | 202      | 50       |
| 62770 GENINA                       | 1329N    | 02227E    | 805       |           | 921.4        | 1008.8         | 27.8        | 2.0    | 36.1           |        | 10            | 159   | -55    | 4        | 196      | 50       |
| 62771 EL OBEID                     | 1310N    | 03014E    | 574       |           | 945.3        | 1008.6         | 28.0        | .5     | 23.9           |        | 7             | 116   | 6      | 3        | 215      | 55       |
| 62772 AROMA                        | 1310N    | 03240E    | 381       |           | 965.9        | 1008.4         | 28.2        | .0     | 26.8           |        | 11            | 153   | 34     | 5        |          |          |
| 62781 EN NAHUD                     | 1242N    | 02826E    | 565       |           | 947.0        | 1009.1         | 23.4        | -4.3   | 25.2           |        | 9             | 163   | 48     | 5        | 214      | 55       |
| 62795 ABU NA'AMA                   | 1244N    | 03408E    | 445       |           | 958.9        | 1008.5         | 26.8        | .1     | 25.0           |        | 12            | 113   | -32    | 2        | 117      | 40       |
| 62805 DAMAZINE                     | 1147N    | 03423E    | 474       |           | 955.5        | 1007.8         | 27.5        | 1.4    | 25.9           |        | 15            | 218   | 47     | 5        | 160      | 45       |

# SURFACE LATE REPORTS

| STATION               | LATITUDE     | LONGITUDE     | ELEVATION  | DAYS OBS. | PRESSURE     |                | TEMPERATURE |            | VAPOR PRESSURE |        | PRECIPITATION |            |            |          | SUNSHINE   |           |
|-----------------------|--------------|---------------|------------|-----------|--------------|----------------|-------------|------------|----------------|--------|---------------|------------|------------|----------|------------|-----------|
|                       |              |               |            |           | MEAN STATION | MEAN SEA LEVEL | MEAN        | DEPART     | MEAN           | DEPART | DAYS 1 MM     | TOTAL      | DEPART     | QUINTILE | TOTAL      | % of AV.  |
| <b>62810 KADONGLI</b> | <b>1100N</b> | <b>02943E</b> | <b>499</b> |           |              |                | <b>27.9</b> | <b>1.6</b> | <b>26.1</b>    |        | <b>12</b>     | <b>112</b> | <b>-51</b> | <b>2</b> | <b>158</b> | <b>40</b> |
| <b>62840 MALKAL</b>   | <b>0933N</b> | <b>03139E</b> | <b>388</b> |           | <b>966.6</b> | <b>1011.0</b>  | <b>28.7</b> | <b>2.4</b> | <b>28.0</b>    |        | <b>9</b>      | <b>153</b> | <b>-10</b> | <b>3</b> | <b>166</b> | <b>45</b> |
| <b>62941 JUBA</b>     | <b>0452N</b> | <b>03136E</b> | <b>460</b> |           | <b>958.0</b> | <b>1009.9</b>  | <b>28.8</b> | <b>2.7</b> | <b>4.0</b>     |        |               | <b>116</b> | <b>-28</b> |          | <b>210</b> | <b>55</b> |
| <br><b>BENIN</b>      |              |               |            |           |              |                |             |            |                |        |               |            |            |          |            |           |
| 65319 NATITINGOU      | 1019N        | 00123E        | 461        |           | 960.5        | 1011.7         | 25.3        | .4         | 28.2           | 2.6    | 22            | 317        | 54         | 4        | 119        | 86        |
| 65330 PARAKOU         | 0921N        | 00237E        | 393        |           | 968.0        | 1011.8         | 25.0        | .3         | 26.7           | 1.3    | 14            | 252        | 44         | 4        | 136        | 115       |
| 65338 BOHICON         | 0710N        | 00204E        | 167        |           | 993.7        | 1012.6         | 25.0        | -.3        | 27.4           | 1.5    | 10            | 121        | 9          | 4        | 53         | 55        |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |   | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE  |        |              | VECTOR WIND |                      |              |            |           |       |
|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|
| PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |
| hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm    |              | °C          | °C                   |              | %          | o         | mps   |
| <b>EUROPE - NORWAY</b><br><b>JAN MAYEN</b><br>01001 SEP 2009 7056N 00840W OB 3       |        |              |       |                      |              |            |           |       | <b>EUROPE - NORWAY</b><br><b>BJORNOYA</b><br>01028 SEP 2009 7431N 01901E OB 3       |             |              |       |                      |              |            |           |       | <b>EUROPE - NORWAY</b><br><b>BODO</b><br>01152 SEP 2009 6717N 01427E OB 3        |        |              |             |                      |              |            |           |       |
| 030  | 23872  | 0            | -53.9 | 32.6                 | 0            | 89         | 266       | 4     | 030   | 23851       | 0            | -54.4 | 32.4                 | 0            | 85         | 272       | 3     | 030  | 23934  | 0            | -54.1       | 31.8                 | 1            | 86         | 280       | 4     |
| 050  | 20587  | 0            | -52.6 | 33.0                 | 0            | 84         | 258       | 5     | 050   | 20574       | 0            | -52.8 | 32.8                 | 0            | 79         | 272       | 4     | 050  | 20657  | 0            | -53.6       | 32.0                 | 1            | 81         | 274       | 4     |
| 100  | 16082  | 0            | -49.7 | 33.8                 | 0            | 85         | 252       | 6     | 100   | 16067       | 0            | -49.0 | 33.8                 | 0            | 84         | 263       | 5     | 100  | 16178  | 0            | -51.2       | 32.5                 | 1            | 83         | 266       | 6     |
| 150  | 13417  | 0            | -48.0 | 34.1                 | 0            | 87         | 251       | 7     | 150   | 13396       | 0            | -47.1 | 34.0                 | 0            | 81         | 264       | 6     | 150  | 13534  | 0            | -49.8       | 31.9                 | 1            | 83         | 267       | 8     |
| 200  | 11519  | 0            | -48.1 | 31.9                 | 0            | 86         | 254       | 8     | 200   | 11489       | 0            | -46.7 | 32.6                 | 0            | 75         | 268       | 6     | 200  | 11654  | 0            | -49.9       | 27.6                 | 1            | 79         | 268       | 9     |
| 300  | 8871   | 0            | -48.5 | 11.4                 | 0            | 70         | 254       | 7     | 300   | 8831        | 0            | -49.7 | 9.1                  | 0            | 53         | 270       | 6     | 300  | 9008   | 0            | -46.8       | 9.5                  | 1            | 73         | 262       | 11    |
| 500  | 5348   | 0            | -25.1 | 12.6                 | 0            | 65         | 252       | 5     | 500   | 5318        | 0            | -25.5 | 8.4                  | 0            | 51         | 270       | 3     | 500  | 5444   | 0            | -22.2       | 10.1                 | 0            | 82         | 265       | 8     |
| 700  | 2827   | 0            | -9.5  | 9.2                  | 0            | 64         | 257       | 4     | 700   | 2797        | 0            | -9.5  | 6.5                  | 0            | 42         | 268       | 2     | 700  | 2896   | 0            | -7.4        | 6.9                  | 0            | 84         | 261       | 7     |
| 850  | 1306   | 0            | -2.7  | 6.1                  | 0            | 43         | 276       | 2     | 850   | 1275        | 0            | -2.2  | 3.1                  | 0            | 29         | 292       | 2     | 850  | 1361   | 0            | .6          | 2.2                  | 0            | 83         | 252       | 6     |
| 999  | * 9    |              | 3.9   | 2.7                  |              |            |           |       | 994   | * 18        |              | 3.3   | 1.5                  |              |            |           |       | 1000   | * 33   |              | 9.8         | 3.0                  |              |            |           |       |
| <b>EUROPE - NORWAY</b><br><b>ORLAND III</b><br>01241 SEP 2009 6342N 00936E OB 3      |        |              |       |                      |              |            |           |       | <b>EUROPE - NORWAY</b><br><b>STAVANGER/SOLA</b><br>01415 SEP 2009 5852N 00540E OB 3 |             |              |       |                      |              |            |           |       | <b>EUROPE - FINLAND</b><br><b>JOKIOINEN</b><br>02963 SEP 2009 6049N 02330E OB 3  |        |              |             |                      |              |            |           |       |
| 030  | 23946  | 0            | -55.1 | 32.0                 | 7            | 91         | 289       | 5     | 030   | 24109       | 0            | -52.7 | 33.0                 | 9            | 56         | 325       | 2     | 030  | 23986  | 0            | -54.9       | 31.6                 | 0            | 78         | 304       | 6     |
| 050  | 20694  | 0            | -54.0 | 32.2                 | 4            | 83         | 286       | 4     | 050   | 20820       | 0            | -53.8 | 32.6                 | 9            | 51         | 264       | 2     | 050  | 20716  | 0            | -54.8       | 31.8                 | 0            | 81         | 288       | 6     |
| 100  | 16244  | 0            | -52.8 | 32.3                 | 2            | 82         | 278       | 7     | 100   | 16374       | 0            | -54.9 | 32.0                 | 9            | 61         | 271       | 4     | 100  | 16277  | 0            | -54.1       | 31.8                 | 0            | 76         | 279       | 10    |
| 150  | 13631  | 0            | -52.5 | 29.2                 | 2            | 83         | 279       | 9     | 150   | 13791       | 0            | -55.7 | 26.7                 | 9            | 57         | 280       | 6     | 150  | 13679  | 0            | -54.3       | 28.4                 | 0            | 67         | 276       | 12    |
| 200  | 11774  | 0            | -52.2 | 23.7                 | 2            | 79         | 280       | 12    | 200   | 11960       | 0            | -55.2 | 17.6                 | 9            | 55         | 292       | 8     | 200  | 11834  | 0            | -53.6       | 21.0                 | 0            | 58         | 279       | 14    |
| 300  | 9125   | 0            | -44.8 | 12.5                 | 2            | 74         | 280       | 11    | 300   | 9318        | 0            | -42.4 | 9.7                  | 9            | 52         | 289       | 8     | 300  | 9195   | 0            | -44.8       | 9.2                  | 0            | 59         | 274       | 15    |
| 500  | 5529   | 0            | -20.0 | 11.3                 | 2            | 79         | 276       | 8     | 500   | 5663        | 0            | -15.6 | 13.0                 | 9            | 59         | 287       | 6     | 500  | 5587   | 0            | -18.8       | 12.0                 | 0            | 68         | 268       | 12    |
| 700  | 2962   | 0            | -5.8  | 6.0                  | 2            | 83         | 268       | 7     | 700   | 3051        | 0            | -1.0  | 14.4                 | 9            | 52         | 277       | 4     | 700  | 3003   | 0            | -3.6        | 8.9                  | 0            | 72         | 270       | 10    |
| 850  | 1417   | 0            | 2.4   | 3.0                  | 2            | 84         | 263       | 7     | 850   | 1483        | 0            | 5.1   | 4.0                  | 9            | 26         | 270       | 2     | 850  | 1445   | 0            | 4.5         | 4.6                  | 0            | 71         | 262       | 8     |
| 1009   | * 10   |              | 11.5  | 3.6                  |              |            |           |       | 1012  | * 37        |              | 13.4  | 39.4                 |              |            |           |       | 1000   | * 104  |              | 12.5        | 3.6                  |              |            |           |       |
| <b>EUROPE - UNITED KINGDOM</b><br><b>LERWICK</b><br>03005 SEP 2009 6008N 00111W OB 3 |        |              |       |                      |              |            |           |       | <b>EUROPE - NETHERLANDS</b><br><b>DE BILT</b><br>06260 SEP 2009 5206N 00511E OB 1   |             |              |       |                      |              |            |           |       | <b>EUROPE - FRANCE</b><br><b>NANCY-ESSEY</b><br>07180 SEP 2009 4841N 00613E OB 3 |        |              |             |                      |              |            |           |       |
| 030  | 24028  | 0            | -53.4 | 31.7                 | 0            | 70         | 290       | 6     | 030   | 24054       | 0            | -53.5 | 31.4                 | 9            | 45         | 326       | 3     | 030  |        |              |             |                      |              |            |           |       |
| 050  | 20749  | 0            | -54.0 | 31.4                 | 0            | 82         | 271       | 8     | 050   | 20795       | 0            | -55.9 | 30.7                 | 9            | 55         | 283       | 3     | 050  | 20798  | 0            | -57.0       | 29.6                 | 8            | 50         | 281       | 3     |
| 100  | 16312  | 0            | -55.1 | 30.2                 | 0            | 82         | 271       | 12    | 100   | 16409       | 0            | -58.4 | 27.8                 | 9            | 58         | 305       | 5     | 100  | 16428  | 0            | -58.6       | 27.6                 | 1            | 56         | 305       | 5     |
| 150  | 13725  | 0            | -55.6 | 25.5                 | 0            | 82         | 274       | 20    | 150   | 13866       | 0            | -59.3 | 21.7                 | 9            | 47         | 331       | 8     | 150  | 13886  | 0            | -58.9       | 22.1                 | 1            | 39         | 328       | 6     |
| 200  | 11894  | 0            | -54.8 | 17.8                 | 0            | 80         | 276       | 26    | 200   | 12053       | 0            | -56.7 | 14.3                 | 9            | 45         | 349       | 12    | 200  | 12074  | 0            | -56.9       | 14.1                 | 1            | 37         | 349       | 8     |
| 300  | 9254   | 0            | -43.1 | 9.3                  | 0            | 77         | 273       | 26    | 300   | 9409        | 0            | -42.0 | 11.2                 | 9            | 37         | 339       | 9     | 300  | 9430   | 0            | -41.2       | 12.0                 | 0            | 32         | 332       | 7     |
| 500  | 5616   | 0            | -17.0 | 9.9                  | 0            | 80         | 270       | 18    | 500   | 5744        | 0            | -14.7 | 14.1                 | 9            | 39         | 303       | 5     | 500  | 5762   | 0            | -14.3       | 15.9                 | 0            | 32         | 313       | 4     |
| 700  | 3015   | 0            | -2.1  | 13.4                 | 1            | 76         | 267       | 13    | 700   | 3116        | 0            | .6    | 11.4                 | 9            | 46         | 283       | 5     | 700  | 3130   | 0            | 1.3         | 14.6                 | 0            | 27         | 312       | 2     |
| 850  | 1453   | 0            | 4.2   | 5.3                  | 0            | 73         | 259       | 11    | 850   | 1534        | 0            | 7.6   | 8.5                  | 9            | 58         | 271       | 5     | 850  | 1542   | 0            | 9.9         | 8.2                  | 0            | 8          | 337       | 1     |
| 1004   | * 84   |              | 11.7  | 2.4                  |              |            |           |       | 1021  | * 4         |              | 15.0  | 3.6                  |              |            |           |       | 996  | * 212  |              | 12.8        | 2.3                  |              |            |           |       |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |   | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE   |        |              | VECTOR WIND |                      |              |            |           |       |    |
|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|----|
| PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |    |
| hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o         | mps   |    |
| <b>EUROPE - FRANCE</b><br>NIMES-COURBESSAC<br>07645 SEP 2009 4352N 00424E OB 3       |        |              |       |                      |              |            |           |       | <b>EUROPE - FRANCE</b><br>AJACCIO<br>07761 SEP 2009 4155N 00848E OB 3       |             |              |       |                      |              |            |           |       | <b>EUROPE - SPAIN</b><br>LA CORUNA<br>08001 SEP 2009 4322N 00825W OB 3    |        |              |             |                      |              |            |           |       |    |
| 030  |        |              |       |                      |              |            |           |       | 030   |             |              |       |                      |              |            |           |       | 030   | 24081  | 0            | -53.2       | 32.7                 | 9            | 20         | 218       | 1     |    |
| 050  | 20840  | 0            | -56.0 |                      | 2            | 64         | 279       | 4     | 050   | 20822       | 0            | -56.5 |                      |              | 4          | 62        | 253   | 4   | 050    | 20833        | 0           | -56.7                | 31.5         | 3          | 15        | 6     | 1  |
| 100  | 16468  | 0            | -59.1 |                      | 0            | 40         | 279       | 3     | 100   | 16454       | 0            | -59.7 |                      |              | 3          | 78        | 265   | 7   | 100    | 16489        | 0           | -61.1                | 28.2         | 0          | 46        | 321   | 2  |
| 150  | 13929  | 0            | -58.6 |                      | 0            | 36         | 300       | 5     | 150   | 13923       | 0            | -58.8 |                      |              | 2          | 74        | 273   | 9   | 150    | 13972        | 0           | -60.7                | 20.9         | 0          | 46        | 334   | 3  |
| 200  | 12113  | 0            | -55.9 |                      | 0            | 22         | 330       | 4     | 200   | 12117       | 0            | -56.3 |                      |              | 1          | 55        | 267   | 9   | 200    | 12169        | 0           | -57.1                | 12.6         | 0          | 44        | 354   | 5  |
| 300  | 9466   | 0            | -41.0 |                      | 0            | 14         | 302       | 3     | 300   | 9468        | 0            | -41.0 |                      |              | 0          | 46        | 277   | 7   | 300    | 9513         | 0           | -39.4                | 13.0         | 0          | 45        | 10    | 5  |
| 500  | 5788   | 0            | -13.3 | 17.1                 | 0            | 23         | 265       | 3     | 500   | 5784        | 0            | -12.9 | 14.5                 |              | 0          | 32        | 276   | 3   | 500    | 5808         | 0           | -11.7                | 21.1         | 0          | 39        | 3     | 3  |
| 700  | 3143   | 0            | 3.4   | 13.7                 | 0            | 6          | 284       | 1     | 700   | 3137        | 0            | 3.3   | 10.9                 |              | 0          | 6         | 298   | 1   | 700    | 3149         | 0           | 4.4                  | 17.7         | 0          | 24        | 4     | 1  |
| 850  | 1543   | 0            | 11.9  | 8.7                  | 0            | 17         | 32        | 1     | 850   | 1535        | 0            | 13.3  | 8.8                  |              | 0          | 10        | 184   | 1   | 850    | 1543         | 0           | 13.1                 | 13.7         | 0          | 35        | 70    | 1  |
| 1011   | * 62   |              | 25.2  | 13.9                 |              |            |           |       | 1016  | * 9         |              | 25.5  | 9.6                  |              |            |           |       | 1011  | * 67   |              | 19.5        | 5.2                  |              |            |           |       |    |
| <b>EUROPE - SPAIN</b><br>SANTANDER<br>08023 SEP 2009 4329N 00348W OB 3               |        |              |       |                      |              |            |           |       | <b>EUROPE - SPAIN</b><br>MADRID/BARAJAS<br>08221 SEP 2009 4030N 00335W OB 3 |             |              |       |                      |              |            |           |       | <b>EUROPE - SPAIN</b><br>MURCIA<br>08430 SEP 2009 3800N 00110W OB 3       |        |              |             |                      |              |            |           |       |    |
| 030  | 24112  | 0            | -53.0 | 32.9                 | 4            | 48         | 251       | 1     | 030   | 24232       | 0            | -51.3 | 33.2                 |              | 0          | 90        | 96    | 7   | 030    | 24124        | 0           | -53.1                | 32.9         | 9          | 53        | 113   | 2  |
| 050  | 20841  | 0            | -56.3 | 31.9                 | 2            | 47         | 234       | 1     | 050   | 20955       | 0            | -56.6 | 31.7                 |              | 0          | 72        | 96    | 4   | 050    | 20857        | 0           | -56.7                | 31.8         | 9          | 48        | 210   | 1  |
| 100  | 16481  | 0            | -60.0 | 29.3                 | 2            | 41         | 317       | 2     | 100   | 16639       | 0            | -62.7 | 29.2                 |              | 0          | 84        | 260   | 8   | 100    | 16500        | 0           | -60.5                | 30.4         | 2          | 75        | 262   | 3  |
| 150  | 13954  | 0            | -59.7 | 21.9                 | 2            | 59         | 308       | 6     | 150   | 14124       | 0            | -58.7 | 27.1                 |              | 0          | 76        | 271   | 13  | 150    | 13980        | 0           | -59.4                | 26.7         | 2          | 69        | 270   | 4  |
| 200  | 12144  | 0            | -56.1 | 13.6                 | 2            | 37         | 12        | 4     | 200   | 12298       | 0            | -53.9 | 18.4                 |              | 0          | 65        | 279   | 12  | 200    | 12165        | 0           | -55.8                | 18.2         | 1          | 56        | 269   | 4  |
| 300  | 9484   | 0            | -40.1 | 16.0                 | 2            | 44         | 23        | 4     | 300   | 9610        | 0            | -37.1 | 16.4                 |              | 0          | 59        | 275   | 8   | 300    | 9511         | 0           | -39.9                | 13.0         | 1          | 47        | 266   | 4  |
| 500  | 5796   | 0            | -12.7 | 22.6                 | 1            | 40         | 8         | 2     | 500   | 5870        | 0            | -9.2  | 19.9                 |              | 0          | 69        | 255   | 6   | 500    | 5810         | 0           | -12.0                | 17.2         | 1          | 45        | 271   | 2  |
| 700  | 3146   | 0            | 3.1   | 15.9                 | 1            | 32         | 12        | 1     | 700   | 3188        | 0            | 7.4   | 12.2                 |              | 0          | 71        | 213   | 4   | 700    | 3155         | 0           | 4.0                  | 11.9         | 0          | 18        | 305   | 1  |
| 850  | 1550   | 0            | 11.2  | 7.5                  | 1            | 39         | 59        | 1     | 850   | 1551        | 0            | 20.4  | 16.2                 |              | 0          | 56        | 196   | 3   | 850    | 1547         | 0           | 14.1                 | 9.2          | 0          | 28        | 77    | 1  |
| 1015   | * 59   |              | 18.8  | 3.2                  |              |            |           |       | 945   | * 633       |              | 27.8  | 20.1                 |              |            |           |       | 1010  | * 62   |              | 23.9        | 8.5                  |              |            |           |       |    |
| <b>EUROPE - PORTUGAL</b><br>LISBOA/GAGO COUTINHO<br>08579 SEP 2009 3846N 00908W OB 3 |        |              |       |                      |              |            |           |       | <b>EUROPE - GERMANY</b><br>SCHLESWIG<br>10035 SEP 2009 5432N 00933E OB 3    |             |              |       |                      |              |            |           |       | <b>EUROPE - GERMANY</b><br>GREIFSWALD<br>10184 SEP 2009 5406N 01324E OB 3 |        |              |             |                      |              |            |           |       |    |
| 030  | 24097  | 0            | -53.2 | 32.8                 | 1            | 48         | 174       | 1     | 030   | 24043       | 0            | -53.7 | 32.7                 |              | 0          | 74        | 309   | 5   | 030    | 24038        | 0           | -53.7                | 32.8         | 0          | 63        | 312   | 4  |
| 050  | 20832  | 0            | -56.5 | 31.7                 | 1            | 44         | 206       | 1     | 050   | 20777       | 0            | -55.7 | 32.0                 |              | 0          | 57        | 283   | 4   | 050    | 20775        | 0           | -55.8                | 32.1         | 0          | 66        | 288   | 4  |
| 100  | 16492  | 0            | -61.4 | 28.5                 | 1            | 63         | 313       | 2     | 100   | 16377       | 0            | -57.4 | 31.1                 |              | 0          | 69        | 292   | 7   | 100    | 16376        | 0           | -57.2                | 31.3         | 0          | 66        | 292   | 6  |
| 150  | 13982  | 0            | -61.2 | 21.3                 | 1            | 60         | 322       | 4     | 150   | 13820       | 0            | -57.9 | 25.5                 |              | 0          | 60        | 301   | 11  | 150    | 13814        | 0           | -57.1                | 27.2         | 0          | 58        | 303   | 9  |
| 200  | 12178  | 0            | -56.7 | 14.9                 | 1            | 51         | 350       | 4     | 200   | 12002       | 0            | -56.2 | 16.2                 |              | 0          | 51        | 315   | 12  | 200    | 11992        | 0           | -56.4                | 16.4         | 0          | 50        | 308   | 11 |
| 300  | 9520   | 0            | -39.5 | 16.6                 | 1            | 43         | 1         | 3     | 300   | 9362        | 0            | -42.8 | 10.9                 |              | 0          | 47        | 308   | 11  | 300    | 9357         | 0           | -43.1                | 10.4         | 0          | 55        | 292   | 12 |
| 500  | 5815   | 0            | -11.7 | 16.7                 | 1            | 49         | 355       | 3     | 500   | 5709        | 0            | -15.6 | 15.2                 |              | 0          | 63        | 284   | 10  | 500    | 5711         | 0           | -15.8                | 15.9         | 0          | 72        | 273   | 10 |
| 700  | 3156   | 0            | 4.7   | 13.3                 | 1            | 46         | 22        | 2     | 700   | 3091        | 0            | -2    | 14.0                 |              | 0          | 67        | 277   | 8   | 700    | 3094         | 0           | -5                   | 13.0         | 0          | 75        | 269   | 8  |
| 850  | 1546   | 0            | 14.6  | 12.0                 | 1            | 54         | 29        | 2     | 850   | 1515        | 0            | 6.8   | 10.2                 |              | 0          | 58        | 271   | 6   | 850    | 1518         | 0           | 7.0                  | 8.9          | 0          | 62        | 268   | 6  |
| 1006   | * 105  |              | 24.3  | 11.1                 |              |            |           |       | 1014  | * 48        |              | 14.4  | 3.7                  |              |            |           |       | 1019  | * 6    |              | 15.7        | 5.0                  |              |            |           |       |    |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL   |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL | TEMPERATURE   |        |              | VECTOR WIND |                      |              | LEVEL      | TEMPERATURE |       |   | VECTOR WIND |              |       |                      |              |            |           |       |
|---|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-------------|-------|---|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|
| PRESSURE  | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION   | SPEED | PRESSURE  | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |
| hPa   | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o           | mps   | hPa   | gpm         |              | °C    | °C                   |              | %          | o         | mps   |
| <b>EUROPE - GERMANY<br/>EMDEN-FLUGPLATZ</b><br>10200 SEP 2009 5323N 00714E OB             |        |              |       |                      |              |            |           |       | <b>EUROPE - GERMANY<br/>BERGEN</b><br>10238 SEP 2009 5249N 00956E OB            |        |              |             |                      |              |            |             |       | <b>EUROPE - GERMANY<br/>LINDENBERG</b><br>10393 SEP 2009 5213N 01407E OB 3              |             |              |       |                      |              |            |           |       |
| 030   | 24048  | 0            | -53.7 | 32.5                 | 0            | 68         | 319       | 4     | 030   | 24062  | 0            | -53.4       | 32.2                 | 1            | 66         | 312         | 4     | 030   | 24041       | 0            | -53.6 | 32.6                 | 0            | 49         | 310       | 3     |
| 050   | 20781  | 0            | -55.7 | 31.8                 | 0            | 56         | 295       | 3     | 050   | 20800  | 0            | -55.7       | 31.4                 | 0            | 57         | 275         | 3     | 050   | 20779       | 0            | -56.1 | 31.9                 | 0            | 60         | 280       | 4     |
| 100   | 16387  | 0            | -57.7 | 29.6                 | 0            | 64         | 292       | 6     | 100   | 16403  | 0            | -57.7       | 30.4                 | 0            | 64         | 290         | 6     | 100   | 16386       | 0            | -57.6 | 30.2                 | 0            | 64         | 288       | 5     |
| 150   | 13835  | 0            | -58.5 | 24.1                 | 0            | 54         | 309       | 10    | 150   | 13846  | 0            | -57.8       | 25.3                 | 0            | 48         | 308         | 8     | 150   | 13831       | 0            | -57.5 | 25.9                 | 0            | 59         | 300       | 8     |
| 200   | 12021  | 0            | -56.5 | 15.4                 | 0            | 51         | 323       | 13    | 200   | 12029  | 0            | -56.3       | 15.6                 | 0            | 45         | 320         | 11    | 200   | 12014       | 0            | -56.6 | 15.8                 | 0            | 40         | 302       | 8     |
| 300   | 9380   | 0            | -42.5 | 11.4                 | 0            | 47         | 319       | 11    | 300   | 9387   | 0            | -42.6       | 11.0                 | 0            | 40         | 305         | 9     | 300   | 9383        | 0            | -43.2 | 11.3                 | 0            | 47         | 288       | 9     |
| 500   | 5722   | 0            | -15.2 | 14.6                 | 0            | 52         | 287       | 8     | 500   | 5733   | 0            | -15.2       | 19.2                 | 0            | 52         | 280         | 7     | 500   | 5733        | 0            | -15.4 | 15.8                 | 0            | 63         | 273       | 8     |
| 700   | 3099   | 0            | .2    | 10.9                 | 0            | 55         | 276       | 7     | 700   | 3111   | 0            | .3          | 12.2                 | 0            | 58         | 275         | 6     | 700   | 3113        | 0            | .2    | 11.9                 | 0            | 65         | 272       | 6     |
| 850   | 1520   | 0            | 7.2   | 9.0                  | 0            | 48         | 273       | 5     | 850   | 1531   | 0            | 7.6         | 9.1                  | 0            | 52         | 270         | 5     | 850   | 1531        | 0            | 7.9   | 8.3                  | 0            | 55         | 272       | 4     |
| 1020  | * 5    |              | 15.0  | 3.5                  |              |            |           |       | 1012  | * 77   |              | 15.2        | 15.2                 |              |            |             |       | 1007  | * 115       |              | 16.6  | 6.2                  |              |            |           |       |
| <b>EUROPE - GERMANY<br/>ESSEN-BREDENEY</b><br>10410 SEP 2009 5124N 00658E OB 3            |        |              |       |                      |              |            |           |       | <b>EUROPE - GERMANY<br/>MEININGEN</b><br>10548 SEP 2009 5034N 01023E OB 3       |        |              |             |                      |              |            |             |       | <b>EUROPE - GERMANY<br/>STUTTGART/SCHNARRENBERG</b><br>10739 SEP 2009 4850N 00912E OB 3 |             |              |       |                      |              |            |           |       |
| 030   | 24062  | 0            | -53.5 | 32.4                 | 0            | 55         | 322       | 3     | 030   | 24054  | 0            | -53.5       | 32.8                 | 0            | 47         | 321         | 2     | 030   | 24075       | 0            | -53.2 | 32.6                 | 0            | 38         | 313       | 2     |
| 050   | 20800  | 0            | -56.1 | 31.6                 | 0            | 47         | 269       | 2     | 050   | 20793  | 0            | -56.2       | 32.0                 | 0            | 55         | 283         | 3     | 050   | 20812       | 0            | -56.2 | 31.8                 | 0            | 40         | 269       | 2     |
| 100   | 16411  | 0            | -58.4 | 30.1                 | 0            | 59         | 290       | 5     | 100   | 16407  | 0            | -58.2       | 30.5                 | 0            | 60         | 290         | 5     | 100   | 16427       | 0            | -58.5 | 30.7                 | 0            | 49         | 288       | 3     |
| 150   | 13866  | 0            | -58.8 | 23.4                 | 0            | 47         | 321       | 7     | 150   | 13859  | 0            | -58.4       | 25.8                 | 0            | 44         | 316         | 6     | 150   | 13879       | 0            | -58.6 | 26.3                 | 0            | 38         | 314       | 5     |
| 200   | 12052  | 0            | -56.7 | 14.9                 | 0            | 43         | 341       | 10    | 200   | 12043  | 0            | -56.9       | 14.9                 | 0            | 34         | 323         | 8     | 200   | 12063       | 0            | -56.6 | 15.6                 | 0            | 33         | 325       | 7     |
| 300   | 9409   | 0            | -42.1 | 12.2                 | 0            | 35         | 326       | 8     | 300   | 9405   | 0            | -42.3       | 12.2                 | 0            | 31         | 305         | 6     | 300   | 9422        | 0            | -41.8 | 11.2                 | 0            | 29         | 306       | 5     |
| 500   | 5746   | 0            | -14.8 | 17.2                 | 0            | 37         | 305       | 5     | 500   | 5746   | 0            | -15.0       | 17.1                 | 0            | 34         | 275         | 4     | 500   | 5757        | 0            | -14.8 | 18.3                 | 0            | 27         | 285       | 3     |
| 700   | 3120   | 0            | .7    | 11.8                 | 0            | 41         | 289       | 4     | 700   | 3121   | 0            | .6          | 10.9                 | 0            | 41         | 272         | 3     | 700   | 3129        | 0            | 1.0   | 11.2                 | 0            | 31         | 276       | 3     |
| 850   | 1537   | 0            | 8.3   | 8.0                  | 0            | 42         | 280       | 4     | 850   | 1537   | 0            | 8.4         | 5.8                  | 0            | 19         | 271         | 1     | 850   | 1542        | 0            | 9.5   | 9.2                  | 0            | 13         | 286       | 1     |
| 1004  | * 153  |              | 15.7  | 4.9                  |              |            |           |       | 968   | * 453  |              | 14.6        | 4.3                  |              |            |             |       | 983   | * 315       |              | 16.3  | 4.8                  |              |            |           |       |
| <b>EUROPE - GERMANY<br/>MUENCHEN-OBERSCHLEIBSHEIM</b><br>10868 SEP 2009 4815N 01133E OB 3 |        |              |       |                      |              |            |           |       | <b>EUROPE - AUSTRIA<br/>WIEN/HOHE WARTE</b><br>11035 SEP 2009 4815N 01622E OB 3 |        |              |             |                      |              |            |             |       | <b>EUROPE - CZECH REPUBLIC<br/>PRAHA-LIBUS</b><br>11520 SEP 2009 5001N 01427E OB 3      |             |              |       |                      |              |            |           |       |
| 030   | 24052  | 0            | -53.1 | 32.7                 | 0            | 35         | 307       | 2     | 030   | 24069  | 0            | -53.2       | 32.6                 | 8            | 51         | 303         | 3     | 030   | 24063       | 0            | -53.2 | 32.3                 | 0            | 58         | 320       | 3     |
| 050   | 20789  | 0            | -56.3 | 31.9                 | 0            | 64         | 291       | 3     | 050   | 20808  | 0            | -55.9       | 32.3                 | 6            | 67         | 290         | 3     | 050   | 20800       | 0            | -56.1 | 31.2                 | 0            | 62         | 300       | 3     |
| 100   | 16410  | 0            | -58.3 | 30.7                 | 0            | 63         | 287       | 5     | 100   | 16424  | 0            | -58.1       | 30.9                 | 5            | 71         | 285         | 5     | 100   | 16412       | 0            | -58.0 | 29.6                 | 0            | 66         | 286       | 5     |
| 150   | 13863  | 0            | -58.8 | 24.5                 | 0            | 48         | 303       | 6     | 150   | 13874  | 0            | -58.4       | 24.9                 | 5            | 58         | 292         | 6     | 150   | 13861       | 0            | -58.1 | 24.5                 | 0            | 51         | 295       | 6     |
| 200   | 12051  | 0            | -57.1 | 14.9                 | 0            | 35         | 305       | 7     | 200   | 12064  | 0            | -57.2       | 14.8                 | 5            | 38         | 290         | 6     | 200   | 12048       | 0            | -57.4 | 13.6                 | 0            | 37         | 290       | 7     |
| 300   | 9416   | 0            | -42.1 | 10.9                 | 0            | 29         | 277       | 5     | 300   | 9431   | 0            | -41.8       | 11.2                 | 5            | 36         | 289         | 5     | 300   | 9417        | 0            | -42.5 | 9.3                  | 0            | 39         | 276       | 7     |
| 500   | 5753   | 0            | -14.8 | 15.6                 | 0            | 28         | 258       | 3     | 500   | 5762   | 0            | -13.9       | 15.5                 | 0            | 32         | 261         | 3     | 500   | 5757        | 0            | -14.5 | 16.8                 | 0            | 39         | 269       | 4     |
| 700   | 3127   | 0            | .6    | 9.5                  | 0            | 35         | 275       | 2     | 700   | 3128   | 0            | 1.3         | 10.1                 | 0            | 18         | 249         | 1     | 700   | 3128        | 0            | .9    | .0                   | 0            | 45         | 261       | 4     |
| 850   | 1542   | 0            | 9.5   | 5.8                  | 0            | 21         | 257       | 1     | 850   | 1540   | 0            | 10.3        | 5.0                  | 0            | 17         | 263         | 1     | 850   | 1542        | 0            | 9.1   | 4.6                  | 0            | 31         | 259       | 2     |
| 963   | * 489  |              | 16.3  | 5.1                  |              |            |           |       | 996   | * 200  |              | 18.2        | 5.4                  |              |            |             |       | 985   | * 303       |              | 17.1  | 7.0                  |              |            |           |       |



# UPPER AIR

# SEPTEMBER 2009

| LEVEL   |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |   | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE  |        |              | VECTOR WIND |                      |              |            |           |       |  |
|---|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|--|
| PRESSURE  | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |  |
| hPa   | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm    |              | °C          | °C                   |              | %          | o         | mps   |  |
| <b>EUROPE - SLOVAKIA</b><br><b>POPRAD-GANOVCE</b><br>11952 SEP 2009 4902N 02019E OB 3 |        |              |       |                      |              |            |           |       | <b>EUROPE - POLAND</b><br><b>LEGIONOWO</b><br>12374 SEP 2009 5224N 02058E OB 3        |             |              |       |                      |              |            |           |       | <b>EUROPE - HUNGARY</b><br><b>BUDAPEST/PESTSZENTLORINC</b><br>12843 SEP 2009 4726N 01911E OB 3 |        |              |             |                      |              |            |           |       |  |
| 030   | 24055  | 0            | -53.1 | 32.1                 | 0            | 58         | 291       | 3     | 030   | 24036       | 0            | -53.7 | 32.1                 | 0            | 59         | 305       | 4     | 030  | 24077  | 0            | -53.2       | 32.6                 | 7            | 52         | 287       | 3     |  |
| 050   | 20792  | 0            | -56.0 | 31.1                 | 0            | 78         | 286       | 4     | 050   | 20775       | 0            | -56.2 | 31.4                 | 0            | 70         | 297       | 4     | 050  | 20814  | 0            | -56.0       | 31.6                 | 7            | 71         | 283       | 4     |  |
| 100   | 16406  | 0            | -57.7 | 29.9                 | 0            | 74         | 288       | 5     | 100   | 16381       | 0            | -57.0 | 30.4                 | 0            | 69         | 286       | 6     | 100  | 16425  | 0            | -57.9       | 29.5                 | 7            | 75         | 284       | 6     |  |
| 150   | 13852  | 0            | -58.2 | 24.5                 | 0            | 60         | 290       | 7     | 150   | 13818       | 0            | -57.3 | 25.4                 | 0            | 60         | 291       | 8     | 150  | 13874  | 0            | -58.2       | 24.5                 | 5            | 58         | 286       | 7     |  |
| 200   | 12042  | 0            | -57.7 | 13.6                 | 0            | 46         | 290       | 8     | 200   | 12001       | 0            | -57.0 | 14.3                 | 0            | 50         | 288       | 10    | 200  | 12066  | 0            | -57.1       | 14.2                 | 2            | 46         | 296       | 8     |  |
| 300   | 9413   | 0            | -42.6 | 10.2                 | 0            | 40         | 288       | 6     | 300   | 9375        | 0            | -43.2 | 9.4                  | 0            | 53         | 291       | 10    | 300  | 9434   | 0            | -42.2       | 10.2                 | 0            | 32         | 294       | 5     |  |
| 500   | 5754   | 0            | -14.8 | 15.3                 | 0            | 44         | 300       | 4     | 500   | 5729        | 0            | -15.5 | 15.6                 | 0            | 65         | 280       | 8     | 500  | 5768   | 0            | -14.3       | 15.7                 | 0            | 34         | 298       | 3     |  |
| 700   | 3127   | 0            | .8    | 9.4                  | 0            | 33         | 291       | 2     | 700   | 3111        | 0            | -1    | 11.1                 | 0            | 69         | 278       | 6     | 700  | 3136   | 0            | 1.4         | 11.0                 | 0            | 10         | 273       | 1     |  |
| 850   | 1541   | 0            | 10.0  | 5.3                  | 0            | 7          | 265       |       | 850   | 1533        | 0            | 8.0   | 6.7                  | 0            | 64         | 264       | 5     | 850  | 1546   | 0            | 10.6        | 6.7                  | 0            | 9          | 346       |       |  |
| 939   | * 703  |              | 14.5  | 5.0                  |              |            |           |       | 1009  | * 96        |              | 16.0  | 6.1                  |              |            |           |       |  | 1003   | * 139        |             | 20.0                 | 10.6         |            |           |       |  |
| <b>EUROPE - HUNGARY</b><br><b>SZEGED</b><br>12982 SEP 2009 4615N 02006E OB            |        |              |       |                      |              |            |           |       | <b>EUROPE - ROMANIA</b><br><b>CLUJ-NAPOCA</b><br>15120 SEP 2009 4647N 02334E OB 1     |             |              |       |                      |              |            |           |       | <b>EUROPE - BULGARIA</b><br><b>SOFIA (OBSERV.)</b><br>15614 SEP 2009 4239N 02323E OB 0         |        |              |             |                      |              |            |           |       |  |
| 030   | 24078  | 0            | -53.7 |                      | 5            | 60         | 290       | 4     | 030   | 24046       | 0            | -53.5 | 32.8                 | 9            | 67         | 269       | 4     | 030  | 24117  | 0            | -53.2       | 29.2                 | 9            | 65         | 262       | 3     |  |
| 050   | 20820  | 0            | -56.5 |                      | 6            | 65         | 278       | 4     | 050   | 20795       | 0            | -56.4 | 32.0                 | 4            | 67         | 295       | 4     | 050  | 20829  | 0            | -56.8       | 29.1                 | 9            | 55         | 261       | 3     |  |
| 100   | 16433  | 0            | -57.9 |                      | 5            | 83         | 285       | 7     | 100   | 16414       | 0            | -57.9 | 31.6                 | 0            | 84         | 282       | 7     | 100  | 16458  | 0            | -58.9       | 27.2                 | 7            | 80         | 276       | 8     |  |
| 150   | 13886  | 0            | -58.2 |                      | 2            | 67         | 285       | 8     | 150   | 13862       | 0            | -58.4 | 27.0                 | 0            | 71         | 292       | 8     | 150  | 13909  | 0            | -57.8       | 23.9                 | 5            | 79         | 278       | 11    |  |
| 200   | 12075  | 0            | -57.1 |                      | 2            | 41         | 295       | 7     | 200   | 12051       | 0            | -57.9 | 13.3                 | 0            | 43         | 296       | 7     | 200  | 12095  | 0            | -56.9       | 14.2                 | 3            | 59         | 274       | 9     |  |
| 300   | 9439   | 0            | -42.0 | 9.6                  | 1            | 31         | 303       | 4     | 300   | 9422        | 0            | -42.5 | 9.3                  | 0            | 34         | 304       | 5     | 300  | 9452   | 0            | -41.0       | 12.7                 | 4            | 51         | 285       | 8     |  |
| 500   | 5770   | 0            | -14.3 | 14.4                 | 1            | 23         | 320       | 2     | 500   | 5757        | 0            | -14.5 | 16.7                 | 0            | 42         | 329       | 4     | 500  | 5770   | 0            | -13.2       | 14.1                 | 5            | 33         | 319       | 3     |  |
| 700   | 3137   | 0            | 1.5   | 10.4                 | 1            | 16         | 331       | 1     | 700   | 3129        | 0            | .9    | 10.7                 | 0            | 29         | 345       | 2     | 700  | 3130   | 0            | 1.8         | 8.1                  | 2            | 13         | 157       | 1     |  |
| 850   | 1545   | 0            | 11.4  | 6.9                  | 1            | 9          | 342       |       | 850   | 1540        | 0            | 11.0  | 7.1                  | 0            | 19         | 126       | 1     | 850  | 1537   | 0            | 11.6        | 5.4                  | 1            | 47         | 51        | 2     |  |
| 1009  | * 83   |              | 15.5  | 4.8                  |              |            |           |       | 971   | * 414       |              | 13.3  | 4.1                  |              |            |           |       | 950  | * 595  |              | 21.4        | 10.7                 |              |            |           |       |  |
| <b>EUROPE - TURKEY</b><br><b>SAMSUN</b><br>17030 SEP 2009 4117N 03618E OB 3           |        |              |       |                      |              |            |           |       | <b>EUROPE - TURKEY</b><br><b>ISTANBUL/GOZTEPE</b><br>17062 SEP 2009 4058N 02905E OB 3 |             |              |       |                      |              |            |           |       | <b>EUROPE - TURKEY</b><br><b>ANKARA/CENTRAL</b><br>17130 SEP 2009 3957N 03253E OB 3            |        |              |             |                      |              |            |           |       |  |
| 030   | 24028  | 0            | -53.6 | 32.4                 | 9            | 88         | 263       | 8     | 030   | 24066       | 0            | -53.9 | 32.6                 | 7            | 51         | 264       | 3     | 030  | 24071  | 0            | -53.4       | 32.7                 | 0            | 55         | 268       | 3     |  |
| 050   | 20781  | 0            | -57.5 | 31.1                 | 9            | 88         | 264       | 8     | 050   | 20826       | 0            | -57.9 | 31.1                 | 6            | 69         | 277       | 5     | 050  | 20827  | 0            | -57.9       | 31.1                 | 0            | 67         | 281       | 4     |  |
| 100   | 16417  | 0            | -57.4 | 30.0                 | 9            | 94         | 272       | 14    | 100   | 16470       | 0            | -58.5 | 29.5                 | 1            | 94         | 268       | 13    | 100  | 16484  | 0            | -58.7       | 27.9                 | 0            | 92         | 263       | 13    |  |
| 150   | 13847  | 0            | -55.7 | 27.6                 | 9            | 94         | 273       | 16    | 150   | 13920       | 0            | -57.4 | 24.9                 | 1            | 87         | 272       | 14    | 150  | 13932  | 0            | -57.0       | 25.0                 | 0            | 93         | 265       | 19    |  |
| 200   | 12018  | 0            | -55.3 | 17.5                 | 9            | 81         | 283       | 16    | 200   | 12092       | 0            | -55.5 | 16.4                 | 0            | 82         | 278       | 13    | 200  | 12104  | 0            | -54.8       | 17.2                 | 0            | 85         | 270       | 16    |  |
| 300   | 9379   | 0            | -42.6 | 10.7                 | 9            | 46         | 297       | 9     | 300   | 9440        | 0            | -40.8 | 10.4                 | 0            | 61         | 287       | 8     | 300  | 9446   | 0            | -40.8       | 12.1                 | 0            | 71         | 286       | 12    |  |
| 500   | 5718   | 0            | -15.0 | 15.5                 | 9            | 69         | 303       | 7     | 500   | 5754        | 0            | -12.7 | 16.2                 | 0            | 56         | 297       | 5     | 500  | 5759   | 0            | -12.4       | 19.4                 | 0            | 68         | 288       | 6     |  |
| 700   | 3093   | 0            | .7    | 10.0                 | 9            | 56         | 311       | 4     | 700   | 3106        | 0            | 3.3   | 14.4                 | 0            | 41         | 353       | 3     | 700  | 3111   | 0            | 2.9         | 10.0                 | 0            | 72         | 293       | 5     |  |
| 850   | 1508   | 0            | 9.4   | 5.0                  | 9            | 71         | 319       | 4     | 850   | 1507        | 0            | 11.6  | 10.4                 | 0            | 81         | 47        | 5     | 850  | 1509   | 0            | 12.9        | 7.8                  | 0            | 47         | 62        | 2     |  |
| 1016  | * 4    |              | 16.9  | 3.6                  |              |            |           |       | 1013  | * 33        |              | 18.9  | 5.3                  |              |            |           |       | 915  | * 891  |              | 14.3        | 13.6                 |              |            |           |       |  |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL   |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |   | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE   |        |              | VECTOR WIND |                      |              |            |           |       |
|---|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|
| PRESSURE  | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |
| hPa   | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o         | mps   |
| <b>EUROPE - TURKEY</b><br><b>IZMIR/GUZELYALI</b><br>17220 SEP 2009 3826N 02710E OB 3                  |        |              |       |                      |              |            |           |       | <b>EUROPE - TURKEY</b><br><b>ISPARTA</b><br>17240 SEP 2009 3745N 03033E OB 3                                    |             |              |       |                      |              |            |           |       | <b>EUROPE - CYPRUS</b><br><b>ATHALASSA</b><br>17607 SEP 2009 3509N 03324E OB 2                    |        |              |             |                      |              |            |           |       |
| 030   | 24087  | 0            | -53.5 | 30.2                 | 1            | 25         | 268       | 2     | 030   | 24045       | 0            | -53.8 | 32.5                 | 9            | 70         | 251       | 4     | 030   | 24007  | 0            | -53.3       | 31.3                 | 9            | 72         | 108       | 4     |
| 050   | 20847  | 0            | -58.2 | 28.4                 | 1            | 73         | 284       | 4     | 050   | 20808       | 0            | -58.2 | 31.2                 | 9            | 79         | 280       | 5     | 050   | 20830  | 0            | -59.1       | 28.3                 |              |            |           |       |
| 100   | 16511  | 0            | -60.3 | 25.3                 | 1            | 95         | 268       | 15    | 100   | 16479       | 0            | -60.1 | 26.6                 | 9            | 96         | 281       | 18    | 100   | 16552  | 0            | -64.0       | 25.2                 | 0            | 94         | 258       | 15    |
| 150   | 13971  | 0            | -57.6 | 22.4                 | 1            | 94         | 267       | 19    | 150   | 13939       | 0            | -57.5 | 23.9                 | 9            | 97         | 273       | 25    | 150   | 14044  | 0            | -58.9       | 25.5                 | 0            | 96         | 261       | 30    |
| 200   | 12145  | 0            | -55.0 | 14.8                 | 0            | 88         | 275       | 18    | 200   | 12117       | 0            | -55.6 | 15.8                 | 9            | 95         | 276       | 24    | 200   | 12216  | 0            | -53.2       | 22.3                 | 0            | 96         | 260       | 32    |
| 300   | 9482   | 0            | -39.7 | 11.6                 | 0            | 75         | 279       | 12    | 300   | 9460        | 0            | -40.2 | 12.1                 | 9            | 91         | 279       | 22    | 300   | 9526   | 0            | -37.8       | 17.4                 | 0            | 95         | 263       | 22    |
| 500   | 5779   | 0            | -11.7 | 15.1                 | 0            | 73         | 283       | 8     | 500   | 5771        | 0            | -12.9 | 14.5                 | 9            | 91         | 289       | 11    | 500   | 5802   | 0            | -10.3       | 22.7                 | 0            | 84         | 268       | 11    |
| 700   | 3118   | 0            | 5.1   | 15.3                 | 0            | 52         | 293       | 3     | 700   | 3118        | 0            | 3.9   | 13.6                 | 9            | 74         | 303       | 4     | 700   | 3126   | 0            | 6.2         | 17.7                 | 0            | 65         | 281       | 5     |
| 850   | 1506   | 0            | 14.5  | 11.0                 | 0            | 55         | 23        | 3     | 850   | 1516        | 0            | 12.8  | 7.2                  | 9            | 66         | 30        | 3     | 850   | 1507   | 0            | 16.4        | 10.6                 | 0            | 44         | 295       | 2     |
| 1010  | * 29   |              | 21.1  | 7.6                  |              |            |           |       | 904   | * 997       |              | 12.4  | 4.9                  |              |            |           |       | 992   | * 162  |              | 26.7        | 10.0                 |              |            |           |       |
| <b>EUROPE - RUSSIAN FEDERATION (EUROPE)</b><br><b>KANDALAKSHA</b><br>22217 SEP 2009 6709N 03221E OB   |        |              |       |                      |              |            |           |       | <b>EUROPE - RUSSIAN FEDERATION (EUROPE)</b><br><b>SHOJNA</b><br>22271 SEP 2009 6753N 04409E OB                  |             |              |       |                      |              |            |           |       | <b>EUROPE - RUSSIAN FEDERATION (EUROPE)</b><br><b>KEM'</b><br>22522 SEP 2009 6457N 03439E OB      |        |              |             |                      |              |            |           |       |
| 030   | 23928  | 0            | -54.7 | 14.4                 | 1            | 91         | 289       | 6     | 030   | 23954       | 0            | -55.0 | 14.1                 | 6            | 91         | 295       | 6     | 030   | 23964  | 0            | -55.2       | 16.3                 | 1            | 89         | 293       | 6     |
| 050   | 20659  | 0            | -54.1 | 13.5                 | 0            | 86         | 291       | 6     | 050   | 20654       | 0            | -54.0 | 12.7                 | 1            | 88         | 296       | 6     | 050   | 20700  | 0            | -54.5       | 14.5                 | 0            | 85         | 292       | 6     |
| 100   | 16189  | 0            | -51.7 | 12.2                 | 0            | 82         | 280       | 9     | 100   | 16179       | 0            | -51.1 | 11.0                 | 1            | 84         | 288       | 9     | 100   | 16245  | 0            | -52.7       | 11.5                 | 0            | 83         | 278       | 11    |
| 150   | 13550  | 0            | -50.4 | 10.1                 | 0            | 83         | 273       | 14    | 150   | 13535       | 0            | -49.8 | 9.3                  | 1            | 83         | 281       | 14    | 150   | 13627  | 0            | -52.1       | 9.2                  | 0            | 78         | 276       | 15    |
| 200   | 11674  | 0            | -50.7 | 7.7                  | 0            | 78         | 276       | 18    | 200   | 11657       | 0            | -49.8 | 7.5                  | 1            | 80         | 277       | 19    | 200   | 11767  | 0            | -52.8       | 7.3                  | 0            | 73         | 276       | 19    |
| 300   | 9030   | 0            | -46.9 | 5.2                  | 0            | 74         | 272       | 23    | 300   | 9010        | 0            | -46.3 | 5.4                  | 1            | 76         | 278       | 20    | 300   | 9117   | 0            | -44.7       | 6.5                  | 0            | 68         | 273       | 20    |
| 500   | 5458   | 0            | -21.8 | 7.6                  | 0            | 81         | 273       | 15    | 500   | 5435        | 0            | -22.0 | 5.9                  | 1            | 82         | 271       | 16    | 500   | 5517   | 0            | -20.4       | 8.2                  | 0            | 76         | 269       | 14    |
| 700   | 2904   | 0            | -6.2  | 6.3                  | 0            | 81         | 270       | 11    | 700   | 2885        | 0            | -7.0  | 6.2                  | 1            | 80         | 271       | 11    | 700   | 2950   | 0            | -4.9        | 7.7                  | 0            | 83         | 267       | 11    |
| 850   | 1360   | 0            | 2.1   | 2.6                  | 0            | 75         | 268       | 8     | 850   | 1353        | 0            | 1.1   | 2.8                  | 0            | 76         | 265       | 9     | 850   | 1397   | 0            | 3.6         | 4.3                  | 0            | 83         | 264       | 10    |
| 1000  | * 25   |              | 10.0  | 9.4                  |              |            |           |       | 1002  | * 18        |              | 9.1   | 2.7                  |              |            |           |       | 1006  | * 8    |              | 11.6        | 4.1                  |              |            |           |       |
| <b>EUROPE - RUSSIAN FEDERATION (EUROPE)</b><br><b>ARHANGEL'SK</b><br>22550 SEP 2009 6433N 04035E OB 3 |        |              |       |                      |              |            |           |       | <b>EUROPE - RUSSIAN FEDERATION (EUROPE)</b><br><b>MOSKVA (DOLGOPRUDNYJ)</b><br>27612 SEP 2009 5545N 03757E OB 0 |             |              |       |                      |              |            |           |       | <b>EUROPE - RUSSIAN FEDERATION (EUROPE)</b><br><b>SUHINICHI</b><br>27707 SEP 2009 5406N 03521E OB |        |              |             |                      |              |            |           |       |
| 030   | 23996  | 0            | -54.7 | 14.1                 | 1            | 91         | 288       | 5     | 030   | 24025       | 0            | -54.5 | 11.7                 | 9            | 87         | 308       | 5     | 030   | 23981  | 0            | -54.8       | 13.1                 | 4            | 88         | 288       | 5     |
| 050   | 20727  | 0            | -54.3 | 13.1                 | 1            | 89         | 294       | 6     | 050   | 20771       | 0            | -55.4 | 10.5                 | 9            | 86         | 295       | 5     | 050   | 20758  | 0            | -55.7       | 11.9                 | 2            | 83         | 289       | 5     |
| 100   | 16269  | 0            | -52.6 | 11.4                 | 1            | 84         | 281       | 10    | 100   | 16354       | 0            | -56.0 | 9.2                  | 9            | 74         | 277       | 7     | 100   | 16345  | 0            | -56.0       | 9.4                  | 2            | 76         | 279       | 6     |
| 150   | 13647  | 0            | -52.3 | 9.3                  | 1            | 79         | 277       | 15    | 150   | 13782       | 0            | -56.4 | 7.6                  | 9            | 58         | 90        | 8     | 150   | 13767  | 0            | -55.8       | 7.5                  | 1            | 67         | 273       | 8     |
| 200   | 11788  | 0            | -52.7 | 7.3                  | 1            | 73         | 276       | 18    | 200   | 11963       | 0            | -57.0 | 6.7                  | 9            | 48         | 274       | 10    | 200   | 11943  | 0            | -56.7       | 6.3                  | 1            | 54         | 271       | 10    |
| 300   | 9126   | 0            | -44.2 | 6.6                  | 1            | 68         | 271       | 19    | 300   | 9318        | 0            | -41.7 | 7.7                  | 9            | 58         | 266       | 12    | 300   | 9310   | 0            | -42.7       | 6.8                  | 1            | 54         | 274       | 10    |
| 500   | 5524   | 0            | -20.1 | 7.9                  | 1            | 78         | 264       | 15    | 500   | 5666        | 0            | -15.6 | 10.7                 | 9            | 69         | 258       | 10    | 500   | 5668   | 0            | -16.3       | 10.4                 | 1            | 58         | 280       | 7     |
| 700   | 2956   | 0            | -5.3  | 7.2                  | 1            | 81         | 266       | 11    | 700   | 3051        | 0            | -1.1  | 2.0                  | 9            | 71         | 254       | 8     | 700   | 3065   | 0            | -1.7        | 7.2                  | 1            | 49         | 265       | 5     |
| 850   | 1407   | 0            | 2.8   | 2.7                  | 1            | 80         | 264       | 9     | 850   | 1484        | 0            | 7.0   | 4.8                  | 9            | 65         | 255       | 7     | 850   | 1501   | 0            | 7.0         | 3.8                  | 1            | 47         | 261       | 4     |
| 1007  | * 4    |              | 11.8  | 3.6                  |              |            |           |       | 993   | * 200       |              | 13.5  | 12.6                 |              |            |           |       | 990   | * 238  |              | 14.2        | 4.4                  |              |            |           |       |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL   |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |   | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE   |        |              | VECTOR WIND |                      |              |            |           |       |  |
|---|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|--|
| PRESSURE  | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |  |
| hPa   | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o         | mps   |  |
| <b>EUROPE - RUSSIAN FEDERATION (EUROPE)</b><br><b>RYAZAN'</b><br>27730 SEP 2009 5438N 03942E OB |        |              |       |                      |              |            |           |       | <b>EUROPE - RUSSIAN FEDERATION (EUROPE)</b><br><b>PENZA</b><br>27962 SEP 2009 5307N 04501E OB |             |              |       |                      |              |            |           |       | <b>EUROPE - RUSSIAN FEDERATION (EUROPE)</b><br><b>KURSK</b><br>34009 SEP 2009 5146N 03610E OB       |        |              |             |                      |              |            |           |       |  |
| 030   | 24028  | 0            | -54.4 | 12.0                 | 1            | 83         | 286       | 5     | 030   | 24003       | 0            | -53.8 | 14.1                 | 1            | 87         | 274       | 6     | 030   | 24010  | 0            | -54.7       | 15.6                 | 0            | 86         | 284       | 5     |  |
| 050   | 20772  | 0            | -55.6 | 10.6                 | 1            | 85         | 288       | 5     | 050   | 20745       | 0            | -55.5 | 12.7                 | 1            | 86         | 284       | 5     | 050   | 20765  | 0            | -56.3       | 13.3                 | 0            | 87         | 290       | 5     |  |
| 100   | 16365  | 0            | -55.8 | 8.5                  | 1            | 74         | 277       | 6     | 100   | 16343       | 0            | -55.9 | 10.5                 | 1            | 82         | 281       | 6     | 100   | 16375  | 0            | -56.5       | 10.0                 | 0            | 75         | 284       | 7     |  |
| 150   | 13783  | 0            | -56.1 | 7.3                  | 1            | 58         | 276       | 7     | 150   | 13768       | 0            | -56.2 | 8.7                  | 1            | 64         | 289       | 7     | 150   | 13803  | 0            | -56.6       | 7.5                  | 0            | 51         | 283       | 6     |  |
| 200   | 11962  | 0            | -56.8 | 6.3                  | 1            | 39         | 281       | 7     | 200   | 11939       | 0            | -56.8 | 6.8                  | 0            | 37         | 293       | 6     | 200   | 11988  | 0            | -57.2       | 6.1                  | 0            | 28         | 281       | 5     |  |
| 300   | 9327   | 0            | -42.5 | 7.0                  | 1            | 40         | 284       | 7     | 300   | 9316        | 0            | -43.5 | 8.0                  | 0            | 38         | 292       | 6     | 300   | 9353   | 0            | -41.7       | 6.4                  | 0            | 27         | 300       | 5     |  |
| 500   | 5686   | 0            | -16.3 | 10.0                 | 0            | 49         | 261       | 6     | 500   | 5682        | 0            | -16.4 | 12.3                 | 0            | 36         | 270       | 4     | 500   | 5700   | 0            | -15.0       | 11.1                 | 0            | 25         | 288       | 3     |  |
| 700   | 3083   | 0            | -1.6  | 8.0                  | 0            | 53         | 265       | 5     | 700   | 3076        | 0            | -1.2  | 10.9                 | 0            | 32         | 258       | 3     | 700   | 3087   | 0            | -6          | 7.5                  | 0            | 29         | 286       | 3     |  |
| 850   | 1513   | 0            | 7.5   | 6.1                  | 0            | 49         | 256       | 4     | 850   | 1512        | 0            | 7.2   | 6.6                  | 0            | 26         | 246       | 2     | 850   | 1516   | 0            | 8.6         | 5.3                  | 0            | 10         | 270       | 1     |  |
| 999   | * 158  |              | 15.0  | 6.2                  |              |            |           |       | 998   | * 172       |              | 16.1  | 8.9                  |              |            |           |       |   | 989    | * 247        |             | 16.4                 | 7.8          |            |           |       |  |
| <b>EUROPE - RUSSIAN FEDERATION (EUROPE)</b><br><b>VORONEZ</b><br>34122 SEP 2009 5139N 03915E OB |        |              |       |                      |              |            |           |       | <b>EUROPE - ISRAEL</b><br><b>BET DAGAN</b><br>40179 SEP 2009 3200N 03449E OB 3                |             |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>OSTROV DIKSON</b><br>20674 SEP 2009 7330N 08024E OB 3 |        |              |             |                      |              |            |           |       |  |
| 030   | 24032  | 0            | -53.9 | 11.5                 | 1            | 87         | 280       | 5     | 030   |             |              |       |                      |              |            |           |       | 030   | 23820  | 0            | -54.1       | 17.0                 | 0            | 91         | 292       | 5     |  |
| 050   | 20774  | 0            | -56.0 | 10.5                 | 1            | 90         | 283       | 5     | 050   | 20835       | 0            | -60.1 | 5.1                  |              |            |           |       | 050   | 20544  | 0            | -52.9       | 15.3                 | 0            | 86         | 288       | 5     |  |
| 100   | 16381  | 0            | -56.3 | 8.6                  | 1            | 78         | 277       | 6     | 100   | 16607       | 0            | -68.4 | 3.4                  | 0            | 96         | 253       | 23    | 100   | 16047  | 0            | -50.2       | 11.5                 | 0            | 80         | 287       | 6     |  |
| 150   | 13799  | 0            | -56.7 | 7.1                  | 0            | 53         | 280       | 6     | 150   | 14151       | 0            | -61.6 | 8.5                  | 0            | 96         | 255       | 37    | 150   | 13394  | 0            | -49.2       | 8.4                  | 0            | 74         | 279       | 8     |  |
| 200   | 11983  | 0            | -57.1 | 5.8                  | 0            | 28         | 294       | 5     | 200   | 12333       | 0            | -52.3 | 13.2                 | 0            | 96         | 256       | 39    | 200   | 11515  | 0            | -50.3       | 6.0                  | 0            | 63         | 265       | 9     |  |
| 300   | 9349   | 0            | -41.9 | 6.5                  | 0            | 29         | 303       | 4     | 300   | 9618        | 0            | -35.2 | 21.0                 | 0            | 95         | 259       | 29    | 300   | 8894   | 0            | -50.1       | 5.1                  | 0            | 51         | 245       | 9     |  |
| 500   | 5696   | 0            | -15.2 | 11.6                 | 0            | 28         | 279       | 3     | 500   | 5851        | 0            | -7.3  | 24.3                 | 0            | 94         | 261       | 15    | 500   | 5374   | 0            | -25.1       | 6.6                  | 0            | 55         | 226       | 7     |  |
| 700   | 3083   | 0            | -7    | 7.8                  | 0            | 15         | 260       | 1     | 700   | 3147        | 0            | 9.3   | 21.7                 | 0            | 83         | 259       | 7     | 700   | 2852   | 0            | -9.5        | 4.3                  | 0            | 48         | 220       | 5     |  |
| 850   | 1514   | 0            | 8.1   | 6.9                  | 0            | 12         | 230       | 1     | 850   | 1513        | 0            | 17.7  | 13.2                 | 0            | 65         | 280       | 4     | 850   | 1328   | 0            | -2.2        | 2.6                  | 0            | 43         | 220       | 4     |  |
| 1006  | * 104  |              | 17.9  | 10.8                 |              |            |           |       | 1008  | * 35        |              | 27.2  | 8.7                  |              |            |           |       | 997   | * 47   |              | 4.0         | 1.7                  |              |            |           |       |  |
| <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>HATANGA</b><br>20891 SEP 2009 7159N 10220E OB 3   |        |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>TIKSI</b><br>21824 SEP 2009 7135N 12850E OB     |             |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>NAR'JAN-MAR</b><br>23205 SEP 2009 6738N 05302E OB 3   |        |              |             |                      |              |            |           |       |  |
| 030   | 23929  | 0            | -52.0 | 15.1                 | 5            | 72         | 310       | 5     | 030   | 23846       | 0            | -52.8 | 13.5                 | 1            | 77         | 267       | 5     | 030   | 23969  | 0            | -54.4       | 17.5                 | 5            | 90         | 295       | 6     |  |
| 050   | 20623  | 0            | -51.1 | 14.3                 | 4            | 79         | 282       | 4     | 050   | 20550       | 0            | -52.0 | 12.5                 | 1            | 78         | 266       | 5     | 050   | 20697  | 0            | -53.7       | 15.7                 | 5            | 86         | 290       | 6     |  |
| 100   | 16097  | 0            | -48.9 | 10.4                 | 4            | 82         | 286       | 5     | 100   | 16052       | 0            | -49.9 | 11.3                 | 0            | 81         | 265       | 5     | 100   | 16217  | 0            | -51.4       | 12.6                 | 5            | 88         | 285       | 10    |  |
| 150   | 13426  | 0            | -47.9 | 7.5                  | 3            | 84         | 289       | 7     | 150   | 13396       | 0            | -48.9 | 9.7                  | 0            | 79         | 266       | 6     | 150   | 13549  | 0            | -49.9       | 9.7                  | 5            | 87         | 278       | 15    |  |
| 200   | 11529  | 0            | -48.9 | 5.0                  | 3            | 82         | 291       | 8     | 200   | 11515       | 0            | -50.1 | 7.4                  | 0            | 71         | 264       | 7     | 200   | 11673  | 0            | -50.4       | 7.3                  | 4            | 81         | 278       | 18    |  |
| 300   | 8907   | 0            | -50.8 | 3.8                  | 3            | 56         | 284       | 8     | 300   | 8902        | 0            | -50.7 | 5.3                  | 0            | 50         | 258       | 9     | 300   | 9028   | 0            | -45.8       | 5.9                  | 4            | 80         | 274       | 21    |  |
| 500   | 5398   | 0            | -25.9 | 4.7                  | 3            | 64         | 286       | 6     | 500   | 5407        | 0            | -26.7 | 6.4                  | 0            | 44         | 255       | 6     | 500   | 5456   | 0            | -21.9       | 7.2                  | 4            | 86         | 266       | 15    |  |
| 700   | 2879   | 0            | -9.6  | 3.5                  | 3            | 56         | 281       | 5     | 700   | 2903        | 0            | -11.0 | 6.7                  | 0            | 38         | 247       | 3     | 700   | 2902   | 0            | -6.6        | 5.1                  | 4            | 89         | 266       | 12    |  |
| 850   | 1353   | 0            | -1.8  | 2.7                  | 3            | 50         | 270       | 4     | 850   | 1392        | 0            | -3.2  | 5.1                  | 0            | 30         | 230       | 2     | 850   | 1361   | 0            | 1.5         | 1.4                  | 4            | 84         | 262       | 9     |  |
| 1002  | * 33   |              | 3.9   | 2.1                  |              |            |           |       | 1011  | * 7         |              | 1.5   | 2.6                  |              |            |           |       | 1002  | * 12   |              | 9.6         | 2.8                  |              |            |           |       |  |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |  | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE   |        |              | VECTOR WIND |                      |              |            |           |       |
|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|
| PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |
| hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o         | mps   |
| <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>SALEHARD</b><br>23330 SEP 2009 6632N 06640E OB 3   |        |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>TURUHANSK</b><br>23472 SEP 2009 6547N 08756E OB 3      |             |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>SYKTYVKAR</b><br>23804 SEP 2009 6140N 05051E OB 3 |        |              |             |                      |              |            |           |       |
| 030  | 23844  | 0            | -54.4 | 14.5                 | 3            | 94         | 285       | 6     | 030  | 23935       | 0            | -52.8 | 19.2                 | 6            | 87         | 291       | 6     | 030   | 23970  | 0            | -55.2       | 12.8                 | 1            | 86         | 284       | 6     |
| 050  | 20592  | 0            | -53.6 | 12.9                 | 1            | 91         | 288       | 6     | 050  | 20607       | 0            | -53.3 | 21.8                 | 0            | 86         | 287       | 5     | 050   | 20710  | 0            | -55.1       | 10.9                 | 1            | 86         | 294       | 6     |
| 100  | 16133  | 0            | -51.2 | 10.0                 | 0            | 84         | 294       | 9     | 100  | 16126       | 0            | -51.5 | 20.5                 | 0            | 87         | 292       | 7     | 100   | 16273  | 0            | -54.1       | 8.3                  | 1            | 83         | 288       | 9     |
| 150  | 13496  | 0            | -50.1 | 8.0                  | 0            | 82         | 289       | 12    | 150  | 13492       | 0            | -50.7 | 18.2                 | 0            | 79         | 292       | 8     | 150   | 13673  | 0            | -54.3       | 6.8                  | 1            | 79         | 284       | 13    |
| 200  | 11629  | 0            | -51.4 | 6.5                  | 0            | 78         | 286       | 16    | 200  | 11622       | 0            | -52.4 | 13.7                 | 0            | 72         | 294       | 11    | 200   | 11834  | 0            | -55.4       | 6.1                  | 1            | 72         | 281       | 17    |
| 300  | 8994   | 0            | -47.1 | 5.6                  | 0            | 71         | 278       | 18    | 300  | 9006        | 0            | -48.8 | 6.9                  | 0            | 56         | 288       | 11    | 300   | 9198   | 0            | -44.2       | 6.3                  | 1            | 71         | 281       | 17    |
| 500  | 5446   | 0            | -22.8 | 6.3                  | 0            | 75         | 276       | 12    | 500  | 5466        | 0            | -24.1 | 7.4                  | 0            | 55         | 276       | 8     | 500   | 5579   | 0            | -18.8       | 8.7                  | 0            | 78         | 278       | 14    |
| 700  | 2906   | 0            | -7.2  | 5.6                  | 0            | 80         | 273       | 10    | 700  | 2931        | 0            | -8.2  | 6.2                  | 0            | 59         | 258       | 6     | 700   | 2998   | 0            | -4.0        | 5.4                  | 0            | 80         | 273       | 11    |
| 850  | 1374   | 0            | .8    | 2.5                  | 0            | 69         | 273       | 7     | 850  | 1399        | 0            | .1    | 4.6                  | 0            | 62         | 237       | 6     | 850   | 1442   | 0            | 4.0         | 2.7                  | 0            | 82         | 268       | 9     |
| 1004   | * 16   |              | 7.7   | 3.0                  |              |            |           |       | 1005   | * 38        |              | 7.7   | 4.1                  |              |            |           |       | 998   | * 116  |              | 12.1        | 3.9                  |              |            |           |       |
| <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>IVDEL'</b><br>23921 SEP 2009 6041N 06027E OB       |        |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>HANTY-MANSIJSK</b><br>23933 SEP 2009 6101N 06902E OB 3 |             |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>OLENEK</b><br>24125 SEP 2009 6830N 11220E OB 3    |        |              |             |                      |              |            |           |       |
| 030  | 23930  | 0            | -54.5 | 15.0                 | 1            | 90         | 285       | 6     | 030  | 23980       | 0            | -53.6 | 16.4                 | 4            | 87         | 289       | 6     | 030   | 23859  | 0            | -52.9       | 14.5                 | 0            | 80         | 270       | 5     |
| 050  | 20670  | 0            | -54.8 | 13.2                 | 0            | 86         | 291       | 6     | 050  | 20690       | 0            | -54.1 | 14.0                 | 2            | 86         | 297       | 6     | 050   | 20569  | 0            | -52.7       | 13.4                 | 0            | 82         | 267       | 5     |
| 100  | 16239  | 0            | -54.1 | 10.6                 | 0            | 82         | 296       | 9     | 100  | 16226       | 0            | -53.9 | 10.2                 | 1            | 79         | 301       | 9     | 100   | 16076  | 0            | -50.6       | 10.7                 | 0            | 82         | 274       | 5     |
| 150  | 13637  | 0            | -54.2 | 8.5                  | 0            | 79         | 296       | 13    | 150  | 13614       | 0            | -53.5 | 8.1                  | 0            | 77         | 302       | 12    | 150   | 13427  | 0            | -49.7       | 8.3                  | 0            | 81         | 277       | 7     |
| 200  | 11801  | 0            | -55.4 | 7.5                  | 0            | 72         | 295       | 17    | 200  | 11771       | 0            | -54.8 | 6.5                  | 0            | 71         | 303       | 16    | 200   | 11548  | 0            | -50.4       | 6.3                  | 0            | 80         | 272       | 8     |
| 300  | 9171   | 0            | -44.5 | 7.9                  | 0            | 65         | 293       | 16    | 300  | 9143        | 0            | -46.1 | 6.1                  | 0            | 66         | 304       | 16    | 300   | 8936   | 0            | -50.9       | 5.5                  | 0            | 62         | 274       | 9     |
| 500  | 5566   | 0            | -19.1 | 10.5                 | 0            | 80         | 286       | 13    | 500  | 5560        | 0            | -20.8 | 8.2                  | 0            | 70         | 297       | 11    | 500   | 5429   | 0            | -25.4       | 6.5                  | 0            | 50         | 273       | 5     |
| 700  | 2992   | 0            | -4.2  | 10.2                 | 0            | 82         | 287       | 10    | 700  | 2997        | 0            | -5.7  | 7.6                  | 0            | 74         | 289       | 9     | 700   | 2911   | 0            | -9.5        | 4.9                  | 0            | 48         | 273       | 4     |
| 850  | 1443   | 0            | 3.8   | 4.3                  | 0            | 84         | 287       | 8     | 850  | 1449        | 0            | 2.7   | 2.8                  | 0            | 75         | 278       | 7     | 850   | 1390   | 0            | -1.4        | 3.8                  | 0            | 50         | 260       | 4     |
| 1001   | * 95   |              | 11.6  | 5.2                  |              |            |           |       | 1006   | * 46        |              | 11.1  | 10.4                 |              |            |           |       | 984   | * 220  |              | 3.1         | 3.2                  |              |            |           |       |
| <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>VERHOJANSK</b><br>24266 SEP 2009 6734N 13320E OB 3 |        |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>ZHIGANSK</b><br>24343 SEP 2009 6646N 12320E OB         |             |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>TURA</b><br>24507 SEP 2009 6416N 10010E OB 3      |        |              |             |                      |              |            |           |       |
| 030  | 23882  | 0            | -52.6 | 15.0                 | 3            | 82         | 264       | 6     | 030  | 23854       | 0            | -52.8 | 16.0                 | 9            | 86         | 257       | 7     | 030   | 23941  | 0            | -51.9       | 16.0                 | 9            | 82         | 269       | 6     |
| 050  | 20596  | 0            | -52.2 | 13.7                 | 2            | 82         | 265       | 5     | 050  | 20556       | 0            | -52.5 | 14.5                 | 7            | 91         | 257       | 6     | 050   | 20631  | 0            | -52.5       | 14.8                 | 5            | 80         | 280       | 5     |
| 100  | 16108  | 0            | -50.8 | 11.5                 | 1            | 85         | 269       | 6     | 100  | 16080       | 0            | -50.9 | 11.9                 | 4            | 82         | 265       | 6     | 100   | 16127  | 0            | -51.7       | 11.9                 | 3            | 85         | 287       | 6     |
| 150  | 13467  | 0            | -50.1 | 9.5                  | 0            | 84         | 262       | 7     | 150  | 13441       | 0            | -50.7 | 9.2                  | 4            | 84         | 265       | 7     | 150   | 13487  | 0            | -50.9       | 9.1                  | 2            | 75         | 290       | 6     |
| 200  | 11591  | 0            | -51.0 | 7.5                  | 0            | 80         | 260       | 10    | 200  | 11574       | 0            | -52.5 | 7.0                  | 4            | 78         | 263       | 11    | 200   | 11611  | 0            | -51.7       | 7.1                  | 2            | 75         | 290       | 7     |
| 300  | 8973   | 0            | -49.9 | 6.4                  | 0            | 60         | 252       | 13    | 300  | 8975        | 0            | -49.8 | 6.7                  | 4            | 60         | 258       | 13    | 300   | 8996   | 0            | -49.9       | 6.2                  | 1            | 51         | 282       | 8     |
| 500  | 5461   | 0            | -24.8 | 6.6                  | 0            | 50         | 235       | 7     | 500  | 5452        | 0            | -24.8 | 10.2                 | 3            | 37         | 267       | 4     | 500   | 5479   | 0            | -24.5       | 6.2                  | 0            | 55         | 279       | 7     |
| 700  | 2937   | 0            | -8.7  | 4.7                  | 0            | 41         | 225       | 3     | 700  | 2933        | 0            | -9.4  | 8.5                  | 3            | 13         | 257       | 1     | 700   | 2951   | 0            | -8.9        | 5.1                  | 0            | 52         | 285       | 5     |
| 850  | 1410   | 0            | -6    | 4.0                  | 0            | 32         | 219       | 2     | 850  | 1415        | 0            | -1.0  | 5.2                  | 3            | 5          | 64        |       | 850   | 1425   | 0            | -4          | 3.0                  | 0            | 52         | 277       | 4     |
| 995  | * 138  |              | 3.9   | 3.7                  |              |            |           |       | 1003   | * 92        |              | 2.3   | 2.6                  |              |            |           |       | 990   | * 168  |              | 5.3         | 3.8                  |              |            |           |       |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |   | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE   |        |              | VECTOR WIND |                      |              |            |           |       |  |
|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|--|
| PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |  |
| hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o         | mps   |  |
| <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>VANAVARA</b><br>24908 SEP 2009 6020N 10210E OB   |        |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>JAKUTSK</b><br>24959 SEP 2009 6201N 12940E OB 0   |             |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>ZYRYANKA</b><br>25400 SEP 2009 6544N 15050E OB          |        |              |             |                      |              |            |           |       |  |
| 030  | 23962  | 0            | -51.9 | 14.5                 | 1            | 93         | 270       | 9     | 030   | 23934       | 0            | -51.7 | 18.2                 | 0            | 91         | 263       | 8     | 030   | 23912  | 0            | -51.3       | 13.2                 | 0            | 83         | 252       | 7     |  |
| 050  | 20660  | 0            | -52.8 | 12.5                 | 1            | 91         | 276       | 7     | 050   | 20628       | 0            | -52.5 | 16.6                 | 0            | 87         | 261       | 7     | 050   | 20603  | 0            | -51.5       | 12.3                 | 1            | 86         | 257       | 6     |  |
| 100  | 16172  | 0            | -51.9 | 9.8                  | 0            | 90         | 283       | 8     | 100   | 16141       | 0            | -51.7 | 12.6                 | 0            | 87         | 266       | 7     | 100   | 16109  | 0            | -50.9       | 9.8                  | 1            | 88         | 268       | 7     |  |
| 150  | 13539  | 0            | -51.3 | 7.6                  | 0            | 84         | 285       | 9     | 150   | 13512       | 0            | -51.8 | 9.6                  | 0            | 81         | 264       | 7     | 150   | 13477  | 0            | -51.7       | 7.8                  | 1            | 87         | 267       | 8     |  |
| 200  | 11676  | 0            | -53.1 | 5.8                  | 0            | 67         | 285       | 11    | 200   | 11655       | 0            | -54.4 | 7.7                  | 0            | 68         | 267       | 8     | 200   | 11625  | 0            | -56.0       | 5.5                  | 0            | 78         | 267       | 10    |  |
| 300  | 9064   | 0            | -48.6 | 5.0                  | 0            | 56         | 283       | 11    | 300   | 9049        | 0            | -49.1 | 6.9                  | 0            | 50         | 265       | 8     | 300   | 9048   | 0            | -49.1       | 5.5                  | 0            | 70         | 267       | 10    |  |
| 500  | 5520   | 0            | -23.3 | 6.1                  | 0            | 54         | 289       | 8     | 500   | 5504        | 0            | -22.9 | 7.7                  | 0            | 53         | 255       | 6     | 500   | 5507   | 0            | -22.9       | 7.8                  | 0            | 61         | 256       | 6     |  |
| 700  | 2980   | 0            | -8.5  | 5.2                  | 0            | 54         | 296       | 5     | 700   | 2959        | 0            | -7.2  | 4.9                  | 0            | 45         | 235       | 3     | 700   | 2963   | 0            | -6.5        | 8.4                  | 0            | 47         | 248       | 3     |  |
| 850  | 1447   | 0            | .5    | 4.1                  | 0            | 48         | 283       | 4     | 850   | 1422        | 0            | 1.6   | 1.4                  | 0            | 35         | 247       | 2     | 850   | 1425   | 0            | 2.1         | 7.4                  | 0            | 23         | 236       | 1     |  |
| 984  | * 260  |              | 5.9   | 3.4                  |              |            |           |       | 999   | * 101       |              | 7.2   | 3.5                  |              |            |           |       |   | 1008   | * 43         |             | 5.7                  | 4.4          |            |           |       |  |
| <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>SEJMCHAN</b><br>25703 SEP 2009 6255N 15220E OB 3 |        |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>MAGADAN</b><br>25913 SEP 2009 5933N 15040E OB     |             |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>VERHNEE DUBROVO</b><br>28445 SEP 2009 5644N 06104E OB 0 |        |              |             |                      |              |            |           |       |  |
| 030  | 23959  | 0            | -51.1 | 14.1                 | 0            | 89         | 261       | 9     | 030   | 23995       | 0            | -50.6 | 13.1                 | 0            | 89         | 259       | 10    | 030   | 24044  | 0            | -53.4       | 10.5                 | 3            | 89         | 279       | 6     |  |
| 050  | 20646  | 0            | -51.3 | 12.7                 | 0            | 89         | 261       | 8     | 050   | 20682       | 0            | -51.7 | 12.1                 | 0            | 89         | 256       | 9     | 050   | 20765  | 0            | -54.6       | 9.8                  | 2            | 80         | 289       | 6     |  |
| 100  | 16150  | 0            | -51.0 | 10.5                 | 0            | 89         | 268       | 8     | 100   | 16191       | 0            | -51.0 | 10.5                 | 0            | 88         | 264       | 9     | 100   | 16326  | 0            | -54.7       | 8.3                  | 0            | 76         | 296       | 9     |  |
| 150  | 13519  | 0            | -52.0 | 8.1                  | 0            | 85         | 274       | 8     | 150   | 13557       | 0            | -51.5 | 8.5                  | 0            | 84         | 267       | 8     | 150   | 13730  | 0            | -55.4       | 6.7                  | 0            | 67         | 302       | 10    |  |
| 200  | 11671  | 0            | -56.2 | 5.7                  | 0            | 72         | 283       | 8     | 200   | 11701       | 0            | -54.7 | 6.4                  | 0            | 61         | 278       | 6     | 200   | 11896  | 0            | -56.3       | 5.4                  | 0            | 62         | 300       | 13    |  |
| 300  | 9086   | 0            | -48.1 | 6.0                  | 0            | 63         | 301       | 8     | 300   | 9110        | 0            | -47.9 | 6.3                  | 0            | 37         | 338       | 4     | 300   | 9269   | 0            | -44.3       | 5.6                  | 0            | 62         | 300       | 12    |  |
| 500  | 5535   | 0            | -22.2 | 8.3                  | 0            | 38         | 286       | 3     | 500   | 5548        | 0            | -21.4 | 8.9                  | 0            | 27         | 333       | 2     | 500   | 5648   | 0            | -18.2       | 8.0                  | 0            | 72         | 296       | 10    |  |
| 700  | 2983   | 0            | -5.6  | 8.8                  | 0            | 44         | 269       | 3     | 700   | 2993        | 0            | -5.4  | 7.0                  | 0            | 16         | 7         | 1     | 700   | 3054   | 0            | -2.7        | 6.7                  | 0            | 75         | 293       | 8     |  |
| 850  | 1442   | 0            | 2.8   | 6.2                  | 0            | 44         | 255       | 2     | 850   | 1449        | 0            | 2.7   | 4.3                  | 0            | 17         | 34        | 1     | 850   | 1492   | 0            | 5.1         | 3.0                  | 0            | 81         | 288       | 7     |  |
| 989  | * 205  |              | 5.5   | 5.3                  |              |            |           |       | 1001  | * 116       |              | 7.9   | 2.6                  |              |            |           |       | 983   | * 290  |              | 12.0        | 4.1                  |              |            |           |       |  |
| <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>OMSK</b><br>28698 SEP 2009 5456N 07324E OB 3     |        |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>KOLPASEVO</b><br>29231 SEP 2009 5819N 08257E OB 3 |             |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>EMEL'JANOVO</b><br>29572 SEP 2009 5611N 09237E OB 0     |        |              |             |                      |              |            |           |       |  |
| 030  | 23964  | 0            | -51.9 | 13.5                 | 0            | 96         | 270       | 9     | 030   | 23939       | 0            | -52.5 | 12.6                 | 1            | 94         | 269       | 9     | 030   | 23982  | 0            | -52.3       | 12.9                 | 0            | 93         | 270       | 10    |  |
| 050  | 20675  | 0            | -53.7 | 11.4                 | 0            | 93         | 275       | 9     | 050   | 20648       | 0            | -53.8 | 10.8                 | 1            | 96         | 278       | 8     | 050   | 20688  | 0            | -53.4       | 11.7                 | 0            | 95         | 273       | 10    |  |
| 100  | 16240  | 0            | -54.1 | 8.7                  | 0            | 79         | 281       | 10    | 100   | 16188       | 0            | -53.0 | 8.8                  | 1            | 88         | 280       | 9     | 100   | 16225  | 0            | -53.2       | 9.7                  | 0            | 95         | 276       | 12    |  |
| 150  | 13640  | 0            | -53.9 | 7.4                  | 0            | 66         | 289       | 11    | 150   | 13574       | 0            | -52.8 | 7.3                  | 1            | 80         | 281       | 11    | 150   | 13611  | 0            | -52.9       | 7.9                  | 0            | 92         | 280       | 14    |  |
| 200  | 11800  | 0            | -55.1 | 6.6                  | 0            | 52         | 300       | 12    | 200   | 11721       | 0            | -53.9 | 6.2                  | 1            | 71         | 281       | 13    | 200   | 11761  | 0            | -54.9       | 6.1                  | 0            | 76         | 286       | 15    |  |
| 300  | 9180   | 0            | -45.5 | 6.7                  | 0            | 46         | 304       | 11    | 300   | 9114        | 0            | -47.6 | 6.3                  | 0            | 62         | 273       | 15    | 300   | 9148   | 0            | -47.1       | 5.7                  | 0            | 57         | 284       | 14    |  |
| 500  | 5593   | 0            | -20.0 | 8.0                  | 0            | 56         | 292       | 9     | 500   | 5553        | 0            | -21.8 | 8.3                  | 0            | 68         | 273       | 10    | 500   | 5571   | 0            | -21.0       | 8.5                  | 0            | 62         | 285       | 10    |  |
| 700  | 3024   | 0            | -4.3  | 9.9                  | 0            | 54         | 281       | 6     | 700   | 2999        | 0            | -6.1  | 6.3                  | 0            | 71         | 270       | 7     | 700   | 3012   | 0            | -6.2        | 8.1                  | 0            | 67         | 283       | 7     |  |
| 850  | 1477   | 0            | 3.5   | 3.2                  | 0            | 60         | 282       | 5     | 850   | 1458        | 0            | 1.8   | 4.5                  | 0            | 64         | 263       | 5     | 850   | 1472   | 0            | 1.9         | 4.6                  | 0            | 53         | 266       | 5     |  |
| 1006   | * 90   |              | 11.2  | 5.9                  |              |            |           |       | 1006  | * 75        |              | 8.9   | 4.2                  |              |            |           |       | 992   | * 206  |              | 7.4         | 4.5                  |              |            |           |       |  |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL   |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |  | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE   |        |              | VECTOR WIND |                      |              |            |           |       |  |
|---|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|--|
| PRESSURE  | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |  |
| hPa   | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o         | mps   |  |
| <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>NOVOSIBIRSK</b><br>29634 SEP 2009 5505N 08254E OB |        |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>HAKASSKAJA</b><br>29862 SEP 2009 5346N 09119E OB |             |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>KIRENSK</b><br>30230 SEP 2009 5746N 10800E OB 0       |        |              |             |                      |              |            |           |       |  |
| 030   | 24007  | 0            | -52.2 | 17.1                 | 3            | 96         | 271       | 10    | 030  | 24028       | 0            | -50.6 | 19.1                 | 7            | 77         | 260       | 8     | 030   | 24026  | 0            | -51.4       | 15.8                 | 3            | 94         | 268       | 8     |  |
| 050   | 20726  | 0            | -53.9 | 15.4                 | 0            | 97         | 274       | 10    | 050  | 20702       | 0            | -52.7 | 17.4                 | 4            | 89         | 270       | 11    | 050   | 20707  | 0            | -52.8       | 13.6                 | 2            | 91         | 272       | 8     |  |
| 100   | 16272  | 0            | -53.7 | 12.0                 | 0            | 94         | 277       | 11    | 100  | 16224       | 0            | -53.7 | 14.2                 | 3            | 93         | 274       | 15    | 100   | 16231  | 0            | -52.3       | 10.3                 | 1            | 94         | 280       | 10    |  |
| 150   | 13662  | 0            | -53.5 | 9.2                  | 0            | 86         | 278       | 12    | 150  | 13622       | 0            | -53.3 | 12.2                 | 3            | 88         | 275       | 14    | 150   | 13607  | 0            | -51.5       | 7.5                  | 0            | 87         | 280       | 10    |  |
| 200   | 11815  | 0            | -54.8 | 6.6                  | 0            | 72         | 278       | 14    | 200  | 11765       | 0            | -53.6 | 9.7                  | 2            | 85         | 275       | 15    | 200   | 11748  | 0            | -53.9       | 5.7                  | 0            | 73         | 278       | 11    |  |
| 300   | 9195   | 0            | -46.3 | 5.7                  | 0            | 54         | 276       | 12    | 300  | 9153        | 0            | -48.4 | 7.9                  | 2            | 76         | 276       | 15    | 300   | 9139   | 0            | -47.1       | 5.3                  | 0            | 41         | 263       | 8     |  |
| 500   | 5609   | 0            | -20.4 | 8.4                  | 0            | 64         | 272       | 9     | 500  | 5602        | 0            | -20.5 | 11.9                 | 1            | 77         | 278       | 11    | 500   | 5561   | 0            | -20.9       | 7.2                  | 0            | 52         | 275       | 7     |  |
| 700   | 3036   | 0            | -4.4  | 8.3                  | 0            | 61         | 273       | 6     | 700  | 3032        | 0            | -4.7  | 8.4                  | 0            | 79         | 278       | 7     | 700   | 3001   | 0            | -6.6        | 4.9                  | 0            | 50         | 282       | 5     |  |
| 850   | 1483   | 0            | 3.5   | 4.9                  | 0            | 36         | 274       | 3     | 850  | 1482        | 0            | 4.0   | 6.7                  | 0            | 47         | 263       | 3     | 850   | 1460   | 0            | 2.0         | 3.6                  | 0            | 51         | 287       | 4     |  |
| 1000  | * 176  |              | 11.0  | 5.6                  |              |            |           |       | 987  | * 256       |              | 8.6   | 4.4                  |              |            |           |       |   | 985    | * 259        |             | 6.1                  | 2.6          |            |           |       |  |
| <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>CHARA</b><br>30372 SEP 2009 5654N 11810E OB       |        |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>CHITA</b><br>30758 SEP 2009 5205N 11320E OB 0    |             |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>ALDAN</b><br>31004 SEP 2009 5837N 12520E OB 3         |        |              |             |                      |              |            |           |       |  |
| 030   | 24015  | 0            | -50.6 | 12.9                 | 0            | 90         | 266       | 8     | 030  | 24073       | 0            | -50.8 | 13.6                 | 9            | 78         | 262       | 6     | 030   | 23928  | 0            | -51.6       | 15.5                 | 1            | 95         | 259       | 8     |  |
| 050   | 20701  | 0            | -52.1 | 11.7                 | 0            | 91         | 266       | 8     | 050  | 20772       | 0            | -52.7 | 12.8                 | 9            | 90         | 269       | 9     | 050   | 20629  | 0            | -52.7       | 14.5                 | 1            | 91         | 260       | 7     |  |
| 100   | 16210  | 0            | -51.8 | 9.6                  | 0            | 89         | 276       | 8     | 100  | 16294       | 0            | -52.5 | 11.3                 | 7            | 95         | 279       | 14    | 100   | 16154  | 0            | -51.8       | 11.6                 | 1            | 85         | 269       | 7     |  |
| 150   | 13582  | 0            | -51.6 | 7.7                  | 0            | 79         | 280       | 9     | 150  | 13672       | 0            | -51.6 | 10.3                 | 6            | 93         | 278       | 16    | 150   | 13526  | 0            | -51.7       | 8.2                  | 1            | 75         | 270       | 7     |  |
| 200   | 11723  | 0            | -54.3 | 5.5                  | 0            | 56         | 285       | 8     | 200  | 11803       | 0            | -52.2 | 8.2                  | 4            | 86         | 283       | 17    | 200   | 11670  | 0            | -54.3       | 6.3                  | 1            | 51         | 268       | 7     |  |
| 300   | 9115   | 0            | -47.3 | 5.4                  | 0            | 23         | 288       | 4     | 300  | 9156        | 0            | -45.8 | 7.5                  | 1            | 76         | 295       | 15    | 300   | 9078   | 0            | -48.0       | 5.8                  | 0            | 35         | 265       | 6     |  |
| 500   | 5537   | 0            | -21.2 | 7.5                  | 0            | 29         | 310       | 3     | 500  | 5567        | 0            | -20.0 | 10.4                 | 0            | 70         | 303       | 9     | 500   | 5520   | 0            | -21.3       | 6.9                  | 0            | 28         | 284       | 3     |  |
| 700   | 2973   | 0            | -6.1  | 4.2                  | 0            | 28         | 341       | 2     | 700  | 2997        | 0            | -4.1  | 7.2                  | 0            | 61         | 317       | 6     | 700   | 2967   | 0            | -6.2        | 5.3                  | 0            | 31         | 307       | 3     |  |
| 850   | 1430   | 0            | 2.7   | 4.8                  | 0            | 16         | 7         | 1     | 850  | 1446        | 0            | 5.0   | 7.9                  | 0            | 47         | 306       | 4     | 850   | 1425   | 0            | 3.4         | 5.6                  | 0            | 35         | 292       | 3     |  |
| 928   | * 711  |              | 3.7   | 4.0                  |              |            |           |       | 934  | * 671       |              | 7.2   | 6.1                  |              |            |           |       | 932   | * 679  |              | 5.7         | 2.4                  |              |            |           |       |  |
| <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>OHOTSK</b><br>31088 SEP 2009 5922N 14310E OB 3    |        |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>AYAN</b><br>31168 SEP 2009 5627N 13800E OB       |             |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>BLAGOVESCENSK</b><br>31510 SEP 2009 5032N 12730E OB 3 |        |              |             |                      |              |            |           |       |  |
| 030   | 23970  | 0            | -50.9 | 13.8                 | 3            | 91         | 260       | 9     | 030  | 24015       | 0            | -50.2 | 13.0                 | 9            | 99         | 220       | 10    | 030   | 23995  | 0            | -50.1       | 14.2                 | 0            | 62         | 251       | 4     |  |
| 050   | 20668  | 0            | -51.7 | 12.5                 | 3            | 92         | 259       | 8     | 050  | 20680       | 0            | -51.5 | 12.0                 | 9            | 99         | 237       | 8     | 050   | 20684  | 0            | -52.4       | 13.2                 | 0            | 89         | 265       | 7     |  |
| 100   | 16161  | 0            | -51.5 | 9.9                  | 3            | 92         | 265       | 8     | 100  | 16238       | 0            | -51.4 | 11.3                 | 9            | 95         | 247       | 7     | 100   | 16222  | 0            | -53.0       | 11.5                 | 0            | 91         | 271       | 13    |  |
| 150   | 13532  | 0            | -52.0 | 7.6                  | 3            | 86         | 265       | 7     | 150  | 13632       | 0            | -51.6 | 8.6                  | 9            | 98         | 252       | 7     | 150   | 13601  | 0            | -51.7       | 9.8                  | 0            | 90         | 273       | 16    |  |
| 200   | 11684  | 0            | -56.4 | 5.2                  | 3            | 66         | 269       | 7     | 200  | 11815       | 0            | -56.7 | 6.2                  | 9            | 94         | 266       | 8     | 200   | 11736  | 0            | -51.4       | 7.9                  | 0            | 83         | 275       | 17    |  |
| 300   | 9102   | 0            | -48.0 | 5.2                  | 2            | 32         | 246       | 4     | 300  | 9213        | 0            | -44.7 | 8.5                  | 9            | 94         | 289       | 10    | 300   | 9109   | 0            | -46.8       | 6.7                  | 0            | 61         | 276       | 13    |  |
| 500   | 5535   | 0            | -21.6 | 7.5                  | 2            | 31         | 201       | 2     | 500  | 5591        | 0            | -19.5 | 6.1                  | 9            | 17         | 193       | 1     | 500   | 5542   | 0            | -20.5       | 9.8                  | 0            | 53         | 270       | 8     |  |
| 700   | 2984   | 0            | -5.9  | 4.0                  | 2            | 41         | 165       | 3     | 700  | 3007        | 0            | -3.7  | 2.9                  | 9            | 37         | 152       | 3     | 700   | 2976   | 0            | -4.6        | 6.6                  | 0            | 47         | 268       | 5     |  |
| 850   | 1443   | 0            | 3.1   | 3.3                  | 2            | 60         | 138       | 4     | 850  | 1440        | 0            | 6.0   | 3.9                  | 9            | 36         | 100       | 3     | 850   | 1425   | 0            | 5.5         | 6.3                  | 0            | 38         | 264       | 3     |  |
| 1013  | * 6    |              | 9.9   | 1.6                  |              |            |           |       | 1010   | * 8         |              | 11.7  | 2.1                  |              |            |           |       | 990   | * 177  |              | 11.1        | 4.0                  |              |            |           |       |  |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |   | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE   |        |              | VECTOR WIND |                      |              |            |           |       |
|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|
| PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |
| hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o         | mps   |
| <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>HABAROVSK</b><br>31736 SEP 2009 4832N 13510E OB 3        |        |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>VLADIVOSTOK (SAD GOROD)</b><br>31977 SEP 2009 4316N 13200E OB 3 |             |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>ALEKSANDROVSK-SAHALINSKIJ</b><br>32061 SEP 2009 5054N 14210E OB   |        |              |             |                      |              |            |           |       |
| 030  | 24072  | 0            | -51.2 | 15.0                 | 0            | 59         | 244       | 4     | 030   | 24144       | 0            | -53.7 | 14.6                 | 4            | 52         | 268       | 4     | 030   | 24096  | 0            | -50.9       | 13.0                 | 0            | 76         | 248       | 5     |
| 050  | 20766  | 0            | -53.1 | 13.6                 | 0            | 91         | 258       | 8     | 050   | 20896       | 0            | -57.2 | 13.5                 | 2            | 88         | 269       | 11    | 050   | 20779  | 0            | -52.2       | 11.5                 | 0            | 90         | 250       | 8     |
| 100  | 16305  | 0            | -53.0 | 11.3                 | 0            | 96         | 266       | 15    | 100   | 16516       | 0            | -56.0 | 11.8                 | 1            | 97         | 268       | 26    | 100   | 16300  | 0            | -52.0       | 9.8                  | 0            | 96         | 258       | 13    |
| 150  | 13688  | 0            | -51.8 | 9.6                  | 0            | 95         | 267       | 19    | 150   | 13924       | 0            | -53.3 | 10.7                 | 1            | 95         | 272       | 33    | 150   | 13669  | 0            | -50.9       | 8.3                  | 0            | 92         | 259       | 15    |
| 200  | 11818  | 0            | -51.4 | 8.5                  | 0            | 90         | 270       | 20    | 200   | 12064       | 0            | -50.9 | 9.9                  | 0            | 92         | 272       | 33    | 200   | 11797  | 0            | -51.4       | 6.6                  | 0            | 84         | 262       | 16    |
| 300  | 9172   | 0            | -45.5 | 8.1                  | 0            | 79         | 277       | 17    | 300   | 9368        | 0            | -39.6 | 10.2                 | 0            | 88         | 276       | 24    | 300   | 9161   | 0            | -46.0       | 6.0                  | 0            | 51         | 263       | 10    |
| 500  | 5578   | 0            | -19.7 | 10.0                 | 0            | 72         | 272       | 10    | 500   | 5693        | 0            | -15.1 | 14.1                 | 0            | 84         | 275       | 15    | 500   | 5567   | 0            | -19.8       | 7.7                  | 0            | 43         | 271       | 6     |
| 700  | 3005   | 0            | -3.9  | 7.2                  | 0            | 68         | 271       | 7     | 700   | 3072        | 0            | .4    | 11.9                 | 0            | 80         | 282       | 9     | 700   | 2991   | 0            | -3.9        | 6.5                  | 0            | 39         | 268       | 4     |
| 850  | 1445   | 0            | 6.0   | 6.1                  | 0            | 61         | 257       | 5     | 850   | 1490        | 0            | 9.0   | 9.1                  | 0            | 57         | 288       | 5     | 850   | 1435   | 0            | 4.7         | 3.9                  | 0            | 30         | 262       | 3     |
| 1003   | * 72   |              | 12.3  | 2.9                  |              |            |           |       | 1004  | * 82        |              | 15.2  | 4.4                  |              |            |           |       | 1007  | * 31   |              | 12.4        | 2.7                  |              |            |           |       |
| <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>JUZHNO-SAHALINSK</b><br>32150 SEP 2009 4657N 14240E OB 1 |        |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>KLJUCHI</b><br>32389 SEP 2009 5619N 16050E OB                   |             |              |       |                      |              |            |           |       | <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>PETROPAVLOVSK-KAMCHATSKIJ</b><br>32540 SEP 2009 5305N 15830E OB 3 |        |              |             |                      |              |            |           |       |
| 030  | 24079  | 0            | -51.9 | 12.0                 | 3            | 49         | 227       | 3     | 030   | 24030       | 0            | -50.6 | 15.6                 | 7            | 86         | 266       | 7     | 030   | 24068  | 0            | -51.2       | 14.0                 | 0            | 82         | 261       | 6     |
| 050  | 20791  | 0            | -53.9 | 11.3                 | 3            | 93         | 248       | 8     | 050   | 20707       | 0            | -51.4 | 14.1                 | 7            | 91         | 257       | 9     | 050   | 20759  | 0            | -52.4       | 13.1                 | 0            | 92         | 261       | 9     |
| 100  | 16362  | 0            | -54.3 | 10.1                 | 1            | 98         | 259       | 20    | 100   | 16210       | 0            | -51.1 | 11.8                 | 7            | 96         | 269       | 13    | 100   | 16287  | 0            | -52.0       | 11.8                 | 0            | 93         | 259       | 15    |
| 150  | 13755  | 0            | -52.1 | 9.3                  | 1            | 97         | 258       | 26    | 150   | 13573       | 0            | -50.6 | 9.8                  | 7            | 94         | 267       | 14    | 150   | 13656  | 0            | -50.7       | 10.5                 | 0            | 92         | 258       | 20    |
| 200  | 11898  | 0            | -51.2 | 8.3                  | 1            | 94         | 258       | 28    | 200   | 11699       | 0            | -51.5 | 7.6                  | 7            | 88         | 265       | 14    | 200   | 11786  | 0            | -51.0       | 8.9                  | 0            | 87         | 257       | 21    |
| 300  | 9230   | 0            | -42.9 | 8.3                  | 0            | 85         | 261       | 21    | 300   | 9080        | 0            | -48.3 | 6.2                  | 7            | 59         | 271       | 9     | 300   | 9140   | 0            | -44.9       | 7.8                  | 0            | 69         | 264       | 14    |
| 500  | 5606   | 0            | -17.7 | 10.5                 | 0            | 78         | 266       | 11    | 500   | 5534        | 0            | -22.6 | 8.7                  | 7            | 42         | 310       | 4     | 500   | 5552   | 0            | -20.3       | 10.2                 | 0            | 44         | 271       | 5     |
| 700  | 3013   | 0            | -1.7  | 9.6                  | 0            | 69         | 273       | 7     | 700   | 2989        | 0            | -6.3  | 9.0                  | 7            | 39         | 331       | 3     | 700   | 2989   | 0            | -4.7        | 10.2                 | 0            | 8          | 4         | 1     |
| 850  | 1450   | 0            | 6.4   | 6.3                  | 0            | 56         | 273       | 5     | 850   | 1452        | 0            | 2.1   | 5.5                  | 7            | 37         | 317       | 2     | 850   | 1442   | 0            | 3.6         | 6.5                  | 0            | 23         | 26        | 1     |
| 1010   | * 24   |              | 13.2  | 2.3                  |              |            |           |       | 1010  | * 29        |              | 8.2   | 2.8                  |              |            |           |       | 1003  | * 84   |              | 9.7         | 4.2                  |              |            |           |       |
| <b>ASIA - RUSSIAN FEDERATION (ASIA)</b><br><b>ORENBURG</b><br>35121 SEP 2009 5141N 05506E OB 3         |        |              |       |                      |              |            |           |       | <b>ASIA - SAUDI ARABIA</b><br><b>AL-QAISUMAH</b><br>40373 SEP 2009 2819N 04608E OB                            |             |              |       |                      |              |            |           |       | <b>ASIA - SAUDI ARABIA</b><br><b>TABUK</b><br>40375 SEP 2009 2823N 03636E OB 3                                  |        |              |             |                      |              |            |           |       |
| 030  | 24046  | 0            | -53.2 | 16.9                 | 0            | 89         | 274       | 8     | 030   | 24059       | 0            | -54.5 | 31.0                 | 9            | 97         | 92        | 13    | 030   | 24042  | 0            | -54.3       | 32.0                 | 3            | 98         | 93        | 12    |
| 050  | 20776  | 0            | -55.5 | 15.0                 | 0            | 83         | 278       | 7     | 050   | 20835       | 0            | -61.4 | 26.9                 | 9            | 90         | 94        | 9     | 050   | 20820  | 0            | -60.8       | 29.5                 | 2            | 91         | 93        | 7     |
| 100  | 16364  | 0            | -56.0 | 11.4                 | 0            | 78         | 282       | 9     | 100   | 16688       | 0            | -76.1 | 12.5                 | 9            | 86         | 246       | 10    | 100   | 16670  | 0            | -73.6       | 13.4                 | 2            | 84         | 245       | 11    |
| 150  | 13787  | 0            | -56.0 | 9.2                  | 0            | 69         | 284       | 10    | 150   | 14292       | 0            | -64.2 | 14.9                 | 9            | 94         | 252       | 20    | 150   | 14255  | 0            | -63.7       | 16.0                 | 2            | 94         | 246       | 22    |
| 200  | 11962  | 0            | -57.2 | 7.8                  | 0            | 47         | 283       | 8     | 200   | 12481       | 0            | -51.3 | 18.9                 | 9            | 96         | 253       | 20    | 200   | 12443  | 0            | -51.9       | 18.0                 | 2            | 95         | 251       | 24    |
| 300  | 9337   | 0            | -44.2 | 8.9                  | 0            | 42         | 277       | 8     | 300   | 9771        | 0            | -31.1 | 26.3                 | 9            | 96         | 261       | 15    | 300   | 9702   | 0            | -32.4       | 23.7                 | 2            | 95         | 260       | 19    |
| 500  | 5706   | 0            | -16.7 | 10.8                 | 0            | 54         | 283       | 6     | 500   | 5913        | 0            | -5.2  | 30.5                 | 9            | 90         | 268       | 10    | 500   | 5899   | 0            | -5.1        | 27.4                 | 2            | 92         | 259       | 10    |
| 700  | 3103   | 0            | -1.7  | 9.0                  | 0            | 44         | 268       | 4     | 700   | 3180        | 0            | 14.5  | 21.3                 | 9            | 86         | 273       | 10    | 700   | 3169   | 0            | 12.6        | 22.7                 | 2            | 90         | 230       | 8     |
| 850  | 1529   | 0            | 7.7   | 7.6                  | 0            | 35         | 265       | 2     | 850   | 1507        | 0            | 27.1  | 26.0                 | 9            | 36         | 273       | 2     | 850   | 1508   | 0            | 24.3        | 19.8                 | 2            | 29         | 324       | 1     |
| 1005   | * 117  |              | 16.7  | 10.3                 |              |            |           |       | 966   | * 358       |              | 34.0  | 23.7                 |              |            |           |       | 924   | * 778  |              | 29.9        | 24.6                 |              |            |           |       |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL   |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |   | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE   |        |              | VECTOR WIND |                      |              |            |           |       |
|---|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|
| PRESSURE  | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |
| hPa   | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o         | mps   |
| <b>ASIA - SAUDI ARABIA HAIL</b><br>40394 SEP 2009 2726N 04141E OB 3                         |        |              |       |                      |              |            |           |       | <b>ASIA - SAUDI ARABIA K.F.I.A. (KING FAHAD INT. AI)</b><br>40417 SEP 2009 2627N 04949E OB 3    |             |              |       |                      |              |            |           |       | <b>ASIA - SAUDI ARABIA AL-MADINAH</b><br>40430 SEP 2009 2433N 03942E OB 3           |        |              |             |                      |              |            |           |       |
| 030   | 24042  | 0            | -54.9 | 30.3                 | 4            | 98         | 89        | 13    | 030   | 24026       | 0            | -54.8 | 30.5                 | 1            | 98         | 90        | 15    | 030   | 23994  | 0            | -55.1       | 31.0                 | 1            | 98         | 90        | 16    |
| 050   | 20825  | 0            | -61.7 | 27.1                 | 4            | 91         | 97        | 9     | 050   | 20813       | 0            | -62.2 | 27.3                 | 1            | 94         | 93        | 10    | 050   | 20783  | 0            | -62.4       | 27.5                 | 1            | 96         | 90        | 11    |
| 100   | 16680  | 0            | -75.9 | 11.8                 | 3            | 77         | 225       | 8     | 100   | 16696       | 0            | -77.5 | 11.5                 | 0            | 71         | 225       | 6     | 100   | 16666  | 0            | -77.1       | 10.4                 | 1            | 59         | 194       | 5     |
| 150   | 14284  | 0            | -64.5 | 14.3                 | 3            | 91         | 238       | 19    | 150   | 14305       | 0            | -64.5 | 15.0                 | 0            | 89         | 246       | 13    | 150   | 14281  | 0            | -65.3       | 12.5                 | 1            | 82         | 224       | 11    |
| 200   | 12473  | 0            | -51.6 | 17.8                 | 3            | 94         | 248       | 20    | 200   | 12495       | 0            | -51.2 | 19.7                 | 0            | 92         | 254       | 14    | 200   | 12476  | 0            | -52.2       | 16.8                 | 1            | 86         | 239       | 12    |
| 300   | 9724   | 0            | -31.3 | 25.3                 | 3            | 94         | 258       | 16    | 300   | 9739        | 0            | -30.8 | 27.2                 | 0            | 91         | 267       | 11    | 300   | 9729   | 0            | -31.2       | 23.9                 | 1            | 83         | 259       | 9     |
| 500   | 5910   | 0            | -5.7  | 27.3                 | 3            | 90         | 256       | 10    | 500   | 5918        | 0            | -5.1  | 34.3                 | 0            | 68         | 292       | 4     | 500   | 5908   | 0            | -5.7        | 25.1                 | 1            | 56         | 250       | 4     |
| 700   | 3183   | 0            | 14.3  | 19.6                 | 3            | 88         | 241       | 7     | 700   | 3186        | 0            | 14.0  | 24.3                 | 0            | 88         | 319       | 10    | 700   | 3180   | 0            | 14.6        | 18.7                 | 1            | 80         | 247       | 6     |
| 850   | 1504   | 0            | 28.5  | 29.0                 | 3            | 3          | 348       |       | 850   | 1514        | 0            | 26.6  | 26.3                 | 0            | 72         | 328       | 7     | 850   | 1499   | 0            | 29.0        | 29.6                 | 1            | 70         | 301       | 4     |
| 899   | *1015  |              | 31.6  | 26.9                 |              |            |           |       | 1004  | * 22        |              | 33.8  | 23.4                 |              |            |           |       | 936   | * 654  |              | 36.3        | 34.1                 |              |            |           |       |
| <b>ASIA - SAUDI ARABIA KING KHALED INT. AIRPORT</b><br>40437 SEP 2009 2456N 04643E OB 3     |        |              |       |                      |              |            |           |       | <b>ASIA - SAUDI ARABIA JEDDAH (KING ABDUL AZIZ INT.)</b><br>41024 SEP 2009 2142N 03911E OB 3    |             |              |       |                      |              |            |           |       | <b>ASIA - IRAN, ISLAMIC REPUBLIC OF MASHHAD</b><br>40745 SEP 2009 3616N 05938E OB 3 |        |              |             |                      |              |            |           |       |
| 030   | 23996  | 0            | -55.4 | 29.6                 | 1            | 99         | 92        | 17    | 030   | 23972       | 0            | -55.9 | 30.4                 | 1            | 98         | 89        | 19    | 030   | 24083  | 0            | -58.6       | 30.3                 | 0            | 73         | 68        | 4     |
| 050   | 20791  | 0            | -62.6 | 26.2                 | 1            | 95         | 93        | 11    | 050   | 20776       | 0            | -63.8 | 26.0                 | 1            | 97         | 96        | 13    | 050   | 20843  | 0            | -59.1       | 28.2                 | 0            | 10         | 284       | 1     |
| 100   | 16686  | 0            | -78.0 | 10.6                 | 1            | 54         | 195       | 4     | 100   | 16681       | 0            | -78.3 | 9.0                  | 1            | 78         | 135       | 7     | 100   | 16591  | 0            | -66.0       | 19.4                 | 2            | 96         | 268       | 20    |
| 150   | 14307  | 0            | -65.0 | 13.6                 | 0            | 78         | 222       | 10    | 150   | 14308       | 0            | -65.8 | 11.1                 | 1            | 75         | 170       | 8     | 150   | 14102  | 0            | -59.3       | 21.5                 | 2            | 95         | 263       | 34    |
| 200   | 12498  | 0            | -51.6 | 18.6                 | 0            | 81         | 241       | 9     | 200   | 12505       | 0            | -52.2 | 15.2                 | 1            | 64         | 193       | 6     | 200   | 12266  | 0            | -51.1       | 22.0                 | 2            | 96         | 270       | 36    |
| 300   | 9744   | 0            | -30.6 | 26.9                 | 0            | 74         | 260       | 7     | 300   | 9756        | 0            | -30.7 | 24.1                 | 1            | 36         | 222       | 3     | 300   | 9552   | 0            | -36.8       | 17.9                 | 2            | 95         | 271       | 26    |
| 500   | 5918   | 0            | -5.2  | 32.1                 | 0            | 38         | 290       | 2     | 500   | 5927        | 0            | -5.6  | 24.0                 | 1            | 45         | 86        | 3     | 500   | 5822   | 0            | -10.3       | 17.8                 | 1            | 89         | 271       | 13    |
| 700   | 3192   | 0            | 14.2  | 13.7                 | 0            | 57         | 319       | 4     | 700   | 3200        | 0            | 14.5  | 17.7                 | 1            | 22         | 81        | 1     | 700   | 3138   | 0            | 8.6         | 16.2                 | 1            | 44         | 275       | 3     |
| 850   | 1512   | 0            | 28.6  | 29.2                 | 0            | 17         | 137       | 1     | 850   | 1519        | 0            | 28.4  | 29.0                 | 1            | 69         | 345       | 4     | 850   | 1509   | 0            | 16.7        | 14.5                 | 1            | 65         | 110       | 3     |
| 940   | * 614  |              | 34.6  | 34.1                 |              |            |           |       | 1005  | * 17        |              | 32.2  | 9.4                  |              |            |           |       | 902   | * 999  |              | 15.8        | 10.6                 |              |            |           |       |
| <b>ASIA - IRAN, ISLAMIC REPUBLIC OF TEHRAN-MEHRABAD</b><br>40754 SEP 2009 3541N 05119E OB 3 |        |              |       |                      |              |            |           |       | <b>ASIA - UNITED ARAB EMIRATES ABU DHABI INTER. AIRPORT</b><br>41217 SEP 2009 2426N 05439E OB 3 |             |              |       |                      |              |            |           |       | <b>ASIA - PAKISTAN LAHORE CITY</b><br>41640 SEP 2009 3133N 07420E OB /              |        |              |             |                      |              |            |           |       |
| 030   | 24087  | 0            | -53.4 | 31.6                 | 4            | 65         | 84        | 3     | 030   | 23979       | 0            | -55.3 | 32.2                 | 9            | 98         | 91        | 16    | 030   |        |              |             |                      |              |            |           |       |
| 050   | 20843  | 0            | -59.3 | 29.8                 | 3            | 21         | 184       | 1     | 050   | 20777       | 0            | -62.9 | 29.4                 | 4            | 95         | 91        | 12    | 050   |        |              |             |                      |              |            |           |       |
| 100   | 16582  | 0            | -65.5 | 22.3                 | 2            | 93         | 263       | 17    | 100   | 16686       | 0            | -78.9 | 10.2                 | 0            | 52         | 160       | 4     | 100   |        |              |             |                      |              |            |           |       |
| 150   | 14094  | 0            | -59.8 | 22.9                 | 3            | 97         | 264       | 34    | 150   | 14307       | 0            | -64.8 | 14.0                 | 0            | 62         | 233       | 5     | 150   | 13798  | 0            | -49.9       | 28.9                 |              |            |           |       |
| 200   | 12263  | 0            | -51.8 | 22.6                 | 2            | 96         | 265       | 37    | 200   | 12495       | 0            | -51.0 | 19.9                 | 0            | 78         | 252       | 7     | 200   | 12437  | 0            | -48.5       | 22.4                 | 9            | 95         | 255       | 25    |
| 300   | 9558   | 0            | -36.5 | 18.5                 | 0            | 96         | 266       | 28    | 300   | 9732        | 0            | -29.6 | 31.5                 | 0            | 69         | 289       | 5     | 300   | 9660   | 0            | -24.5       | 29.3                 | 8            | 91         | 259       | 19    |
| 500   | 5820   | 0            | -10.3 | 18.8                 | 0            | 95         | 258       | 14    | 500   | 5895        | 0            | -3.8  | 39.7                 | 0            | 60         | 26        | 4     | 500   | 5844   | 0            | -6.1        | 29.1                 | 7            | 78         | 296       | 6     |
| 700   | 3136   | 0            | 9.2   | 12.7                 | 0            | 61         | 249       | 4     | 700   | 3162        | 0            | 13.8  | 25.4                 | 0            | 10         | 325       | 1     | 700   | 3125   | 0            | 12.2        | 16.0                 | 3            | 86         | 327       | 6     |
| 850   | 1487   | 0            | 23.1  | 20.9                 | 0            | 26         | 227       | 1     | 850   | 1489        | 0            | 26.9  | 27.0                 | 0            | 50         | 277       | 3     | 850   | 1467   | 0            | 21.6        | 7.2                  | 3            | 41         | 326       | 2     |
| 879   | *1204  |              | 24.8  | 22.1                 |              |            |           |       | 1001  | * 27        |              | 33.9  | 12.1                 |              |            |           |       | 980   | * 215  |              | 26.6        | 4.4                  |              |            |           |       |



# UPPER AIR

# SEPTEMBER 2009

| LEVEL   |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |   | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE   |        |              | VECTOR WIND |                      |              |            |           |       |    |     |    |     |    |
|---|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|----|-----|----|-----|----|
| PRESSURE  | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |    |     |    |     |    |
| hPa   | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o         | mps   |    |     |    |     |    |
| <b>ASIA - PAKISTAN</b><br>KARACHI AIRPORT<br>41780 SEP 2009 2454N 06708E OB 1 |        |              |       |                      |              |            |           |       | <b>ASIA - BANGLADESH</b><br>DHAKA<br>41923 SEP 2009 2346N 09023E OB /       |             |              |       |                      |              |            |           |       | <b>ASIA - INDIA</b><br>NEW DELHI/SAFDARJUNG<br>42182 SEP 2009 2835N 07712E OB 3 |        |              |             |                      |              |            |           |       |    |     |    |     |    |
| 030   |        |              |       |                      |              |            |           |       | 030   | 23963       | 0            | -55.4 |                      |              |            |           | 9     | 99  | 80     | 19           | 030         |                      |              |            |           |       |    |     |    |     |    |
| 050   |        |              |       |                      |              |            |           |       | 050   | 20782       | 0            | -43.7 |                      |              |            |           | 9     | 92  | 92     | 13           | 050         |                      |              |            |           |       |    |     |    |     |    |
| 100   | 16665  | 0            | -78.7 |                      | 5            | 57         | 167       | 4     | 100   | 16699       | 0            | -77.7 |                      |              |            |           | 9     | 78  | 102    | 8            | 100         | 16693                | 0            | -72.7      | 12.6      | 0     | 39 | 183 | 2  |     |    |
| 150   | 14242  | 0            | -59.5 |                      | 3            | 67         | 224       | 6     | 150   | 14312       | 0            | -64.1 |                      |              |            |           | 9     | 33  | 75     | 3            | 150         | 14319                | 0            | -64.0      | 13.6      | 0     | 90 | 242 | 11 |     |    |
| 200   | 12437  | 0            | -50.3 |                      | 3            | 81         | 248       | 8     | 200   | 12489       | 0            | -49.0 |                      |              |            |           | 9     | 34  | 23     | 3            | 200         | 12469                | 0            | -50.5      | 16.5      | 0     | 95 | 247 | 14 |     |    |
| 300   | 9673   | 0            | -28.9 | 24.9                 | 3            | 78         | 279       | 6     | 300   | 9693        | 0            | -22.6 | 6.7                  |              |            |           | 9     | 47  | 165    | 3            | 300         | 9718                 | 0            | -28.5      | 38.5      | 0     | 88 | 268 | 12 |     |    |
| 500   | 5827   | 0            | -3.1  | 36.1                 | 2            | 54         | 42        | 4     | 500   | 5810        | 0            | -3.0  | 3.4                  |              |            |           | 9     | 79  | 128    | 6            | 500         | 5892                 | 0            | -3.5       | 22.0      | 0     | 63 | 309 | 5  |     |    |
| 700   | 3092   | 0            | 13.2  | 20.3                 | 2            | 50         | 57        | 4     | 700   | 3090        | 0            | 11.0  | 10.1                 |              |            |           | 9     | 63  | 163    | 4            | 700         | 3105                 | 0            | 12.7       | 14.0      | 0     | 65 | 327 | 6  |     |    |
| 850   | 1437   | 0            | 23.6  | 16.4                 | 2            | 61         | 270       | 4     | 850   | 1450        | 0            | 20.0  | 19.2                 |              |            |           | 9     | 57  | 146    | 3            | 850         | 1463                 | 0            | 22.3       | 9.1       | 0     | 49 | 323 | 4  |     |    |
| 9999  | * 22   |              | 27.0  | 4.6                  |              |            |           |       | 1003  | * 9         |              | 27.0  | 26.5                 |              |            |           |       |   |        |              |             |                      |              |            |           |       |    |     |    |     |    |
| <b>ASIA - INDIA</b><br>JODHPUR<br>42339 SEP 2009 2618N 07301E OB 3            |        |              |       |                      |              |            |           |       | <b>ASIA - INDIA</b><br>GUWAHATI<br>42410 SEP 2009 2606N 09135E OB 3         |             |              |       |                      |              |            |           |       | <b>ASIA - INDIA</b><br>PATNA<br>42492 SEP 2009 2536N 08506E OB 3                |        |              |             |                      |              |            |           |       |    |     |    |     |    |
| 030   | 24560  | 0            | -42.7 | 24.0                 | 9            | 89         | 88        | 13    | 030   |             |              |       |                      |              |            |           |       |   |        |              |             |                      | 6            | 98         | 92        | 16    |    |     |    |     |    |
| 050   | 21150  | 0            |       | 20.8                 | 9            | 88         | 88        | 11    | 050   |             |              |       |                      |              |            |           |       |   |        |              |             |                      | 4            | 92         | 96        | 12    |    |     |    |     |    |
| 100   | 16737  | 0            | -68.5 | 16.2                 | 4            | 52         | 111       | 4     | 100   |             |              |       |                      |              |            |           |       |   |        |              |             |                      | 1            | 71         | 129       | 8     |    |     |    |     |    |
| 150   | 14342  | 0            | -62.9 | 26.6                 | 4            | 61         | 215       | 5     | 150   |             |              |       |                      |              |            |           |       |   |        |              |             |                      | 1            | 52         | 179       | 9     |    |     |    |     |    |
| 200   | 12515  | 0            | -49.4 | 26.5                 | 4            | 83         | 240       | 8     | 200   | 12576       | 0            | -47.1 | 28.8                 |              |            |           | 9     | 31  | 224    | 2            | 200         | 12660                | 0            | -46.9      |           |       |    | 1   | 34 | 200 | 9  |
| 300   | 9735   | 0            | -27.8 | 23.7                 | 3            | 71         | 356       | 7     | 300   | 9721        | 0            | -25.8 | 25.7                 |              |            |           | 7     | 22  | 184    | 2            | 300         | 9692                 | 0            | -25.9      |           |       |    | 1   | 70 | 206 | 7  |
| 500   | 5860   | 0            | -4.6  | 27.5                 | 2            | 51         | 339       | 3     | 500   | 5850        | 0            | -2.2  | 8.2                  |              |            |           | 6     | 39  | 149    | 2            | 500         | 5824                 | 0            | -5.1       | 5.3       |       |    | 1   | 43 | 174 | 7  |
| 700   | 3130   | 0            | 12.6  | 20.7                 | 2            | 50         | 358       | 4     | 700   | 3111        | 0            | 12.0  | 6.1                  |              |            |           | 3     | 40  | 143    | 2            | 700         | 3095                 | 0            | 10.8       | 7.4       |       |    | 1   | 57 | 144 | 7  |
| 850   | 1470   | 0            | 24.2  | 32.6                 | 2            | 51         | 252       | 4     | 850   | 1473        | 0            | 20.3  | 4.2                  |              |            |           | 3     | 18  | 213    | 1            | 850         | 1447                 | 0            | 20.2       | 4.5       |       |    | 1   | 47 | 157 | 6  |
| 979   | * 224  |              | 32.0  | 14.6                 |              |            |           |       | 999   | * 54        |              | 28.0  | 2.7                  |              |            |           |       |   |        |              |             |                      |              |            |           |       |    |     |    |     |    |
| <b>ASIA - INDIA</b><br>AHMADABAD<br>42647 SEP 2009 2304N 07238E OB 3          |        |              |       |                      |              |            |           |       | <b>ASIA - INDIA</b><br>CALCUTTA/DUM DUM<br>42809 SEP 2009 2239N 08827E OB 3 |             |              |       |                      |              |            |           |       | <b>ASIA - INDIA</b><br>NAGPUR SONEGAON<br>42867 SEP 2009 2106N 07903E OB 3      |        |              |             |                      |              |            |           |       |    |     |    |     |    |
| 030   |        |              |       |                      |              |            |           |       | 030   |             |              |       |                      |              |            |           |       |   |        |              |             |                      |              |            |           |       |    |     |    |     |    |
| 050   |        |              |       |                      |              |            |           |       | 050   | 20916       | 0            | -51.8 |                      |              |            |           | 9     | 99  | 93     | 19           | 050         | 20850                | 0            | -53.0      |           |       |    | 9   | 99 | 88  | 18 |
| 100   |        |              |       |                      |              |            |           |       | 100   | 16643       | 0            | -73.2 |                      |              |            |           | 6     | 98  | 96     | 11           | 100         | 16568                | 0            | -73.7      |           |       |    | 3   | 98 | 90  | 11 |
| 150   |        |              |       |                      |              |            |           |       | 150   | 14262       | 0            | -65.7 |                      |              |            |           | 5     | 80  | 100    | 8            | 150         | 14228                | 0            | -68.2      |           |       |    | 3   | 82 | 98  | 10 |
| 200   | 12389  | 0            | -53.4 |                      |              |            |           |       | 200   | 12459       | 0            | -49.3 |                      |              |            |           | 1     | 61  | 106    | 6            | 200         | 12422                | 0            | -53.1      |           |       |    | 1   | 73 | 91  | 6  |
| 300   | 9655   | 0            | -30.3 | 11.2                 |              |            |           |       | 300   | 9680        | 0            | -27.8 | 14.6                 |              |            |           | 1     | 45  | 117    | 3            | 300         | 9694                 | 0            | -29.6      | 10.4      |       |    | 0   | 58 | 84  | 3  |
| 500   | 5822   | 0            | -4.5  | 15.8                 |              |            |           |       | 500   | 5814        | 0            | -2.6  | 8.0                  |              |            |           | 0     | 74  | 125    | 4            | 500         | 5834                 | 0            | -2.3       | 14.8      |       |    | 0   | 25 | 3   | 2  |
| 700   | 3110   | 0            | 9.9   | 10.3                 |              |            |           |       | 700   | 3081        | 0            | 7.9   | 31.6                 |              |            |           | 0     | 55  | 121    | 4            | 700         | 3111                 | 0            | 11.2       | 7.8       |       |    | 0   | 67 | 358 | 6  |
| 850   | 1469   | 0            | 20.0  | 6.6                  | 6            | 53         | 308       | 5     | 850   | 1443        | 0            | 19.6  | 3.3                  |              |            |           | 0     | 37  | 136    | 3            | 850         | 1465                 | 0            | 21.6       | 6.3       |       |    | 0   | 66 | 341 | 5  |
| 999   | * 55   |              | 30.6  | 5.7                  |              |            |           |       | 1002  | * 6         |              | 28.2  | 2.3                  |              |            |           |       |   |        |              |             |                      |              |            |           |       |    |     |    |     |    |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |   | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE  |        |              | VECTOR WIND |                      |              |            |           |       |     |    |
|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|-----|----|
| PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |     |    |
| hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm    |              | °C          | °C                   |              | %          | o         | mps   |     |    |
| <b>ASIA - INDIA BOMBAY / SANTACRUZ</b><br>43003 SEP 2009 1907N 07251E OB 3 |        |              |       |                      |              |            |           |       | <b>ASIA - INDIA HYDERABAD AIRPORT</b><br>43128 SEP 2009 1727N 07828E OB 3 |             |              |       |                      |              |            |           |       | <b>ASIA - INDIA GOA/PANJIM</b><br>43192 SEP 2009 1529N 07349E OB 3         |        |              |             |                      |              |            |           |       |     |    |
| 030  |        |              |       |                      |              |            |           |       | 030   | 23894       | 0            | -56.3 | 30.5                 |              | 5          | 96        | 88    | 21   | 030    | 23889        | 0           | -57.1                | 28.6         |            | 9         | 99    | 88  | 21 |
| 050  |        |              |       |                      |              |            |           |       | 050   | 20714       | 0            | -64.4 | 21.1                 |              | 2          | 94        | 95    | 14   | 050    | 20717        | 0           | -64.9                | 16.9         |            | 7         | 98    | 97  | 20 |
| 100  |        |              |       |                      |              |            |           |       | 100   | 16649       | 0            | -81.0 |                      |              | 2          | 96        | 93    | 20   | 100    | 16645        | 0           | -79.1                | 8.5          |            | 2         | 98    | 97  | 20 |
| 150  |        |              |       |                      |              |            |           |       | 150   | 14261       | 0            | -66.0 | 8.2                  |              | 0          | 94        | 94    | 16   | 150    | 14251        | 0           | -66.5                | 7.2          |            | 1         | 97    | 97  | 20 |
| 200  | 12393  | 0            | -55.0 | 12.3                 | 9            | 89         | 95        | 9     | 200   | 12461       | 0            | -51.0 | 7.5                  |              | 0          | 91        | 94    | 11   | 200    | 12447        | 0           | -51.8                | 6.7          |            | 1         | 94    | 92  | 13 |
| 300  | 9664   | 0            | -30.3 | 17.2                 | 8            | 65         | 71        | 4     | 300   | 9689        | 0            | -28.2 | 8.3                  |              | 0          | 75        | 92    | 5  | 300    | 9698         | 0           | -28.8                | 6.9          |            | 1         | 78    | 88  | 6  |
| 500  | 5817   | 0            | -3.4  | 20.3                 | 5            | 36         | 27        | 2     | 500   | 5824        | 0            | -3.1  | 8.5                  |              | 0          | 15        | 294   | 1  | 500    | 5835         | 0           | -3.6                 | 8.3          |            | 1         | 20    | 229 | 1  |
| 700  | 3095   | 0            | 10.6  | 7.3                  | 3            | 46         | 65        | 2     | 700   | 3090        | 0            | 10.7  | 5.5                  |              | 0          | 25        | 308   | 2  | 700    | 3108         | 0           | 9.7                  | 3.6          |            | 0         | 28    | 273 | 2  |
| 850  | 1459   | 0            | 19.0  | 2.9                  | 3            | 51         | 335       | 3     | 850   | 1447        | 0            | 20.9  | 5.3                  |              | 0          | 51        | 314   | 3  | 850    | 1471         | 0           | 18.7                 | 2.5          |            | 0         | 67    | 290 | 5  |
| 1004   | * 14   |              | 28.0  | 3.1                  |              |            |           |       | 945   | * 545       |              | 27.4  | 5.9                  |              |            |           |       |  | 1001   | * 60         |             | 26.2                 | 1.8          |            |           |       |     |    |
| <b>ASIA - INDIA MANGALORE/PANAMBUR</b><br>43285 SEP 2009 1257N 07450E OB 3 |        |              |       |                      |              |            |           |       | <b>ASIA - INDIA KOCHIN/WILLINGDON</b><br>43353 SEP 2009 0957N 07616E OB 3 |             |              |       |                      |              |            |           |       | <b>ASIA - INDIA THIRUVANANTHAPURAM</b><br>43371 SEP 2009 0829N 07657E OB 3 |        |              |             |                      |              |            |           |       |     |    |
| 030  |        |              |       |                      |              |            |           |       | 030   |             |              |       |                      |              |            |           |       |  | 030    | 23851        | 0           | -56.4                | 24.0         |            | 4         | 98    | 92  | 22 |
| 050  |        |              |       |                      |              |            |           |       | 050   |             |              |       |                      |              |            |           |       |  | 050    | 20625        | 0           | -65.6                | 14.9         |            | 3         | 84    | 102 | 8  |
| 100  |        |              |       |                      |              |            |           |       | 100   | 16530       | 0            | -72.3 |                      |              |            |           |       |  | 100    | 16609        | 0           | -77.4                | 9.1          |            | 0         | 80    | 93  | 15 |
| 150  | 14209  | 0            | -67.4 | 6.3                  |              |            |           |       | 150   | 14168       | 0            | -69.9 |                      |              |            |           |       |  | 150    | 14218        | 0           | -67.4                | 7.6          |            | 0         | 99    | 90  | 30 |
| 200  | 12406  | 0            | -54.5 | 4.0                  |              |            |           |       | 200   | 12401       | 0            | -55.7 |                      |              |            |           |       |  | 200    | 12421        | 0           | -53.2                | 6.9          |            | 0         | 97    | 86  | 23 |
| 300  | 9670   | 0            | -30.6 | 12.4                 |              |            |           |       | 300   | 9675        | 0            | -30.9 | 12.5                 |              |            |           |       |  | 300    | 9681         | 0           | -30.3                | 7.3          |            | 0         | 85    | 95  | 9  |
| 500  | 5838   | 0            | -4.4  | 10.4                 |              |            |           |       | 500   | 5838        | 0            | -4.4  | 7.6                  |              |            |           |       |  | 500    | 5846         | 0           | -4.4                 | 5.3          |            | 0         | 46    | 274 | 3  |
| 700  | 3118   | 0            | 9.8   | 5.7                  |              |            |           |       | 700   | 3117        | 0            | 10.3  | 5.2                  |              |            |           |       |  | 700    | 3116         | 0           | 10.3                 | 9.8          |            | 0         | 85    | 279 | 8  |
| 850  | 1483   | 0            | 18.2  | 2.1                  | 5            | 81         | 294       | 6     | 850   | 1482        | 0            | 18.3  | 3.0                  |              |            |           |       |  | 850    | 1479         | 0           | 18.2                 | 3.0          |            | 0         | 93    | 296 | 9  |
| 1005   | * 32   |              | 26.3  | 1.7                  |              |            |           |       | 1008  | * 3         |              | 27.4  | 3.3                  |              |            |           |       |  | 1003   | * 64         |             | 26.9                 | 3.3          |            |           |       |     |    |
| <b>ASIA - HONG KONG, CHINA KOWLOON</b><br>45004 SEP 2009 2219N 11410E OB 1 |        |              |       |                      |              |            |           |       | <b>ASIA - DPR KOREA PYONGYANG</b><br>47058 SEP 2009 3902N 12540E OB 3     |             |              |       |                      |              |            |           |       | <b>ASIA - JAPAN WAKKANAI</b><br>47401 SEP 2009 4525N 14140E OB 2           |        |              |             |                      |              |            |           |       |     |    |
| 030  | 23967  | 0            | -54.8 | 32.1                 | 0            | 98         | 90        | 21    | 030   |             |              |       |                      |              |            |           |       |  | 030    | 24102        | 0           | -52.0                |              |            | 0         | 48    | 242 | 3  |
| 050  | 20770  | 0            | -64.2 | 28.4                 | 0            | 97         | 87        | 16    | 050   |             |              |       |                      |              |            |           |       |  | 050    | 20816        | 0           | -54.8                |              |            | 0         | 94    | 255 | 7  |
| 100  | 16704  | 0            | -78.7 | 9.3                  | 0            | 90         | 77        | 11    | 100   |             |              |       |                      |              |            |           |       |  | 100    | 16404        | 0           | -55.8                |              |            | 0         | 98    | 258 | 21 |
| 150  | 14323  | 0            | -64.4 | 13.4                 | 0            | 29         | 89        | 3     | 150   | 14211       | 0            | -54.5 | 7.4                  |              |            |           |       |  | 150    | 13812        | 0           | -53.2                | 8.7          |            | 0         | 98    | 260 | 29 |
| 200  | 12506  | 0            | -50.1 | 16.2                 | 0            | 36         | 113       | 3     | 200   | 12319       | 0            | -47.6 | 8.1                  |              |            |           |       |  | 200    | 11949        | 0           | -51.3                | 4.4          |            | 0         | 96    | 259 | 33 |
| 300  | 9730   | 0            | -28.5 | 16.6                 | 0            | 58         | 104       | 6     | 300   | 9564        | 0            | -33.0 | 8.3                  |              |            |           |       |  | 300    | 9282         | 0           | -42.6                | 1.3          |            | 0         | 90    | 261 | 25 |
| 500  | 5878   | 0            | -3.6  | 12.7                 | 0            | 80         | 101       | 7     | 500   | 5790        | 0            | -10.1 | 11.4                 |              |            |           |       |  | 500    | 5646         | 0           | -17.0                | 17.6         |            | 0         | 83    | 265 | 13 |
| 700  | 3141   | 0            | 11.3  | 7.2                  | 0            | 70         | 96        | 6     | 700   | 3118        | 0            | 5.0   | 4.1                  |              |            |           |       |  | 700    | 3042         | 0           | -1.4                 | 13.4         |            | 0         | 74    | 263 | 7  |
| 850  | 1492   | 0            | 18.7  | 2.6                  | 0            | 82         | 83        | 9     | 850   | 1510        | 0            | 12.5  | 8.3                  |              |            |           |       |  | 850    | 1469         | 0           | 7.5                  | 7.4          |            | 0         | 57    | 254 | 5  |
| 1001   | * 66   |              | 27.4  | 3.5                  |              |            |           |       | 1011  | * 36        |              | 18.6  | 3.3                  |              |            |           |       |  | 1012   | * 12         |             | 16.2                 | 3.6          |            |           |       |     |    |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL   |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           |       | LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           |       | LEVEL   |        | TEMPERATURE  |      |                      | VECTOR WIND  |            |           |       |     |    |
|---|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|------|----------------------|--------------|------------|-----------|-------|-----|----|
| PRESSURE  | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |     |    |
| hPa   | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C   | °C                   |              | %          | o         | mps   |     |    |
| <b>ASIA - JAPAN SAPPORO</b><br>47412 SEP 2009 4304N 14120E OB 2 |        |              |       |                      |              |            |           |       | <b>ASIA - JAPAN NEMURO</b><br>47420 SEP 2009 4320N 14530E OB 2       |        |              |       |                      |              |            |           |       | <b>ASIA - JAPAN AKITA</b><br>47582 SEP 2009 3943N 14000E OB 2       |        |              |      |                      |              |            |           |       |     |    |
| 030   | 24109  | 0            | -52.5 |                      | 3            | 39         | 241       | 2     | 030  | 24104  | 0            | -52.9 |                      |              | 1          | 38        | 256   | 2   | 030    | 24108        | 0    | -53.2                |              |            | 0         | 11    | 11  | 1  |
| 050   | 20840  | 0            | -55.8 |                      | 2            | 87         | 253       | 7     | 050  | 20834  | 0            | -56.3 |                      |              | 0          | 86        | 249   | 7   | 050    | 20852        | 0    | -57.7                |              |            | 0         | 79    | 251 | 6  |
| 100   | 16468  | 0            | -58.4 |                      | 0            | 98         | 260       | 23    | 100  | 16472  | 0            | -58.5 |                      |              | 0          | 98        | 257   | 23  | 100    | 16555        | 0    | -63.0                |              |            | 0         | 97    | 261 | 23 |
| 150   | 13903  | 0            | -55.1 |                      | 1            | 97         | 260       | 34    | 150  | 13914  | 0            | -55.8 |                      |              | 0          | 96        | 257   | 35  | 150    | 14039        | 0    | -58.4                |              |            | 0         | 97    | 261 | 36 |
| 200   | 12051  | 0            | -51.1 |                      | 1            | 95         | 260       | 38    | 200  | 12064  | 0            | -51.1 |                      |              | 0          | 95        | 258   | 41  | 200    | 12206        | 0    | -51.9                |              |            | 0         | 94    | 260 | 41 |
| 300   | 9363   | 0            | -40.1 |                      | 0            | 93         | 261       | 28    | 300  | 9370   | 0            | -38.7 |                      |              | 0          | 93        | 257   | 33  | 300    | 9488         | 0    | -35.3                | 14.3         |            | 0         | 94    | 257 | 35 |
| 500   | 5690   | 0            | -15.0 | 15.1                 | 0            | 86         | 265       | 14    | 500  | 5688   | 0            | -14.7 | 17.8                 |              | 0          | 88        | 267   | 14  | 500    | 5755         | 0    | -11.3                | 21.1         |            | 0         | 93    | 264 | 18 |
| 700   | 3065   | 0            | .5    | 15.1                 | 0            | 73         | 261       | 7     | 700  | 3063   | 0            | .3    | 13.7                 |              | 0          | 72        | 260   | 8   | 700    | 3096         | 0    | 3.9                  | 18.1         |            | 0         | 81    | 266 | 9  |
| 850   | 1483   | 0            | 8.4   | 5.8                  | 0            | 41         | 245       | 4     | 850  | 1483   | 0            | 8.1   | 7.0                  |              | 1          | 48        | 266   | 5   | 850    | 1497         | 0    | 11.1                 | 7.8          |            | 0         | 72    | 241 | 5  |
| 1011  | * 26   |              | 17.2  | 5.7                  |              |            |           |       | 1010   | * 39   |              | 14.7  | 3.0                  |              |            |           |       |   | 1013   | * 7          |      | 19.1                 | 4.2          |            |           |       |     |    |
| <b>ASIA - JAPAN WAJIMA</b><br>47600 SEP 2009 3724N 13650E OB 2  |        |              |       |                      |              |            |           |       | <b>ASIA - JAPAN TATENO</b><br>47646 SEP 2009 3603N 14000E OB 2       |        |              |       |                      |              |            |           |       | <b>ASIA - JAPAN HACHIJOJIMA</b><br>47678 SEP 2009 3307N 13940E OB 2 |        |              |      |                      |              |            |           |       |     |    |
| 030   | 24105  | 0            | -53.5 |                      | 0            | 42         | 71        | 2     | 030  | 24099  | 0            | -54.3 |                      |              | 2          | 72        | 79    | 4   | 030    | 24084        | 0    | -54.6                |              |            | 2         | 90    | 84  | 7  |
| 050   | 20857  | 0            | -58.5 |                      | 0            | 62         | 250       | 4     | 050  | 20866  | 0            | -59.4 |                      |              | 2          | 47        | 241   | 2   | 050    | 20852        | 0    | -61.1                |              |            | 1         | 45    | 97  | 2  |
| 100   | 16608  | 0            | -66.1 |                      | 0            | 97         | 264       | 22    | 100  | 16642  | 0            | -68.5 |                      |              | 0          | 96        | 263   | 19  | 100    | 16671        | 0    | -72.2                |              |            | 0         | 88    | 270 | 12 |
| 150   | 14123  | 0            | -59.9 |                      | 0            | 97         | 265       | 34    | 150  | 14183  | 0            | -61.1 |                      |              | 0          | 95        | 261   | 30  | 150    | 14247        | 0    | -63.0                |              |            | 0         | 91    | 264 | 21 |
| 200   | 12293  | 0            | -51.4 |                      | 0            | 94         | 264       | 36    | 200  | 12357  | 0            | -51.3 |                      |              | 0          | 93        | 259   | 31  | 200    | 12428        | 0    | -51.2                |              |            | 0         | 88    | 262 | 22 |
| 300   | 9561   | 0            | -33.5 | 11.3                 | 0            | 95         | 260       | 30    | 300  | 9618   | 0            | -32.3 | 9.0                  |              | 0          | 88        | 256   | 25  | 300    | 9677         | 0    | -30.9                | 10.5         |            | 0         | 81    | 266 | 16 |
| 500   | 5794   | 0            | -9.6  | 19.4                 | 0            | 91         | 267       | 15    | 500  | 5821   | 0            | -7.5  | 17.6                 |              | 0          | 92        | 260   | 14  | 500    | 5854         | 0    | -5.5                 | 16.3         |            | 0         | 78    | 258 | 9  |
| 700   | 3116   | 0            | 5.1   | 13.3                 | 1            | 73         | 266       | 6     | 700  | 3126   | 0            | 6.7   | 14.5                 |              | 1          | 52        | 278   | 4   | 700    | 3138         | 0    | 9.4                  | 18.0         |            | 0         | 31    | 257 | 3  |
| 850   | 1508   | 0            | 12.9  | 7.6                  | 1            | 57         | 254       | 4     | 850  | 1511   | 0            | 13.5  | 4.3                  |              | 0          | 46        | 349   | 2   | 850    | 1506         | 0    | 16.3                 | 6.1          |            | 0         | 21    | 62  | 2  |
| 1013  | * 15   |              | 19.7  | 3.2                  |              |            |           |       | 1011   | * 31   |              | 20.2  | 3.5                  |              |            |           |       |   | 993    | * 156        |      | 22.3                 | 1.6          |            |           |       |     |    |
| <b>ASIA - JAPAN YONAGO</b><br>47744 SEP 2009 3526N 13320E OB 2  |        |              |       |                      |              |            |           |       | <b>ASIA - JAPAN SHIONOMISAKI</b><br>47778 SEP 2009 3327N 13540E OB 2 |        |              |       |                      |              |            |           |       | <b>ASIA - JAPAN FUKUOKA</b><br>47807 SEP 2009 3335N 13020E OB 2     |        |              |      |                      |              |            |           |       |     |    |
| 030   | 24097  | 0            | -53.9 |                      | 1            | 67         | 78        | 4     | 030  | 24093  | 0            | -54.2 |                      |              | 4          | 95        | 76    | 6   | 030    | 24088        | 0    | -54.1                |              |            | 3         | 90    | 79  | 6  |
| 050   | 20860  | 0            | -59.6 |                      | 1            | 36         | 246       | 2     | 050  | 20862  | 0            | -61.0 |                      |              | 1          | 27        | 105   | 1   | 050    | 20858        | 0    | -60.5                |              |            | 2         | 25    | 76  | 1  |
| 100   | 16647  | 0            | -68.7 |                      | 0            | 97         | 266       | 19    | 100  | 16685  | 0            | -71.8 |                      |              | 0          | 95        | 266   | 15  | 100    | 16680        | 0    | -71.3                |              |            | 0         | 95    | 273 | 16 |
| 150   | 14186  | 0            | -61.1 |                      | 0            | 97         | 273       | 31    | 150  | 14249  | 0            | -62.1 |                      |              | 0          | 94        | 268   | 24  | 150    | 14242        | 0    | -62.2                |              |            | 0         | 97    | 276 | 26 |
| 200   | 12360  | 0            | -50.9 |                      | 0            | 94         | 271       | 31    | 200  | 12425  | 0            | -50.5 |                      |              | 0          | 92        | 268   | 25  | 200    | 12419        | 0    | -50.6                |              |            | 0         | 91    | 278 | 25 |
| 300   | 9618   | 0            | -32.3 | 10.2                 | 0            | 89         | 272       | 27    | 300  | 9672   | 0            | -30.7 | 11.0                 |              | 0          | 88        | 269   | 20  | 300    | 9667         | 0    | -30.9                | 11.1         |            | 0         | 85    | 276 | 21 |
| 500   | 5822   | 0            | -7.4  | 18.0                 | 0            | 91         | 272       | 14    | 500  | 5850   | 0            | -5.9  | 16.2                 |              | 0          | 82        | 270   | 11  | 500    | 5846         | 0    | -5.5                 | 17.7         |            | 0         | 84    | 274 | 12 |
| 700   | 3129   | 0            | 6.9   | 15.7                 | 0            | 69         | 280       | 5     | 700  | 3138   | 0            | 8.7   | 17.0                 |              | 0          | 36        | 262   | 3   | 700    | 3137         | 0    | 8.5                  | 15.1         |            | 0         | 59    | 287 | 4  |
| 850   | 1511   | 0            | 14.1  | 7.9                  | 0            | 9          | 220       | 1     | 850  | 1511   | 0            | 15.6  | 5.1                  |              | 0          | 38        | 62    | 3   | 850    | 1511         | 0    | 15.3                 | 5.4          |            | 0         | 11    | 149 | 1  |
| 1013  | * 9    |              | 21.8  | 3.6                  |              |            |           |       | 1004   | * 76   |              | 23.1  | 4.3                  |              |            |           |       |   | 1011   | * 15         |      | 24.1                 | 5.7          |            |           |       |     |    |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL   |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |   | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE   |        |              | VECTOR WIND |                      |              |            |           |       |    |     |     |    |  |  |  |
|---|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|----|-----|-----|----|--|--|--|
| PRESSURE  | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |    |     |     |    |  |  |  |
| hPa   | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o         | mps   |    |     |     |    |  |  |  |
| <b>ASIA - JAPAN KAGOSHIMA</b><br>47827 SEP 2009 3133N 13030E OB 2       |        |              |       |                      |              |            |           |       | <b>ASIA - JAPAN NAZE/FUNCHATOGE</b><br>47909 SEP 2009 2824N 12930E OB 2 |             |              |       |                      |              |            |           |       | <b>ASIA - JAPAN ISHIGAKIJIMA</b><br>47918 SEP 2009 2420N 12410E OB 2    |        |              |             |                      |              |            |           |       |    |     |     |    |  |  |  |
| 030   | 24081  | 0            | -54.3 |                      | 1            | 96         | 79        | 8     | 030   |             |              |       |                      |              |            |           |       |   | 030    | 24024        | 0           | -54.7                |              |            |           |       |    |     |     |    |  |  |  |
| 050   | 20857  | 0            | -61.7 |                      | 0            | 74         | 84        | 4     | 050   | 20855       | 0            | -61.8 |                      |              |            | 9         | 93    | 83  | 8      | 050          | 20821       | 0                    | -63.4        |            |           |       |    |     |     |    |  |  |  |
| 100   | 16711  | 0            | -73.5 |                      | 0            | 92         | 273       | 11    | 100   | 16729       | 0            | -75.9 |                      |              |            | 0         | 64    | 278   | 4      | 100          | 16738       | 0                    | -78.0        |            |           | 0     | 72 | 83  | 5   |    |  |  |  |
| 150   | 14289  | 0            | -62.7 |                      | 0            | 95         | 274       | 20    | 150   | 14327       | 0            | -63.4 |                      |              |            | 0         | 74    | 281   | 9      | 150          | 14350       | 0                    | -64.0        |            |           | 0     | 24 | 286 | 2   |    |  |  |  |
| 200   | 12465  | 0            | -50.1 |                      | 0            | 91         | 277       | 19    | 200   | 12505       | 0            | -49.9 |                      |              |            | 0         | 84    | 279   | 11     | 200          | 12530       | 0                    | -49.6        |            |           | 0     | 45 | 274 | 5   |    |  |  |  |
| 300   | 9704   | 0            | -30.2 | 13.5                 | 0            | 81         | 281       | 14    | 300   | 9736        | 0            | -29.5 | 14.6                 |              |            | 0         | 69    | 283   | 7      | 300          | 9751        | 0                    | -28.4        | 16.8       |           |       | 0  | 6   | 95  | 1  |  |  |  |
| 500   | 5868   | 0            | -4.3  | 16.1                 | 0            | 73         | 280       | 9     | 500   | 5890        | 0            | -3.4  | 16.7                 |              |            | 0         | 54    | 295   | 5      | 500          | 5896        | 0                    | -3.0         | 13.1       |           |       | 0  | 37  | 76  | 3  |  |  |  |
| 700   | 3144   | 0            | 9.6   | 12.9                 | 0            | 33         | 273       | 3     | 700   | 3152        | 0            | 11.7  | 17.9                 |              |            | 0         | 21    | 18  | 2      | 700          | 3153        | 0                    | 11.9         | 10.2       |           |       | 0  | 45  | 67  | 4  |  |  |  |
| 850   | 1511   | 0            | 16.3  | 5.8                  | 0            | 40         | 67        | 2     | 850   | 1509        | 0            | 17.7  | 4.5                  |              |            | 0         | 54    | 66  | 5      | 850          | 1502        | 0                    | 19.2         | 3.5        |           |       | 0  | 65  | 67  | 5  |  |  |  |
| 1008  | * 32   |              | 26.6  | 7.5                  |              |            |           |       | 978   | * 295       |              | 24.8  | 3.4                  |              |            |           |       |   |        | 1008         | * 11        |                      | 28.7         | 4.9        |           |       |    |     |     |    |  |  |  |
| <b>ASIA - JAPAN MINAMIDAITOJIMA</b><br>47945 SEP 2009 2550N 13110E OB 2 |        |              |       |                      |              |            |           |       | <b>ASIA - JAPAN CHICHIJIMA</b><br>47971 SEP 2009 2706N 14210E OB 3      |             |              |       |                      |              |            |           |       | <b>ASIA - JAPAN MINAMITORISHIMA</b><br>47991 SEP 2009 2417N 15350E OB 3 |        |              |             |                      |              |            |           |       |    |     |     |    |  |  |  |
| 030   | 24028  | 0            | -54.6 |                      | 0            | 98         | 85        | 16    | 030   | 24035       | 0            | -55.0 |                      |              |            | 0         | 99    | 82  | 14     | 030          | 24016       | 0                    | -55.0        |            |           | 4     | 98 | 84  | 18  |    |  |  |  |
| 050   | 20820  | 0            | -63.2 |                      | 0            | 98         | 86        | 11    | 050   | 20824       | 0            | -62.3 |                      |              |            | 0         | 98    | 85  | 10     | 050          | 20812       | 0                    | -62.5        |            |           | 2     | 98 | 84  | 12  |    |  |  |  |
| 100   | 16722  | 0            | -77.7 |                      | 0            | 37         | 83        | 3     | 100   | 16709       | 0            | -76.2 |                      |              |            | 0         | 26    | 35  | 2      | 100          | 16693       | 0                    | -75.9        |            |           | 0     | 85 | 57  | 9   |    |  |  |  |
| 150   | 14332  | 0            | -63.8 |                      | 0            | 37         | 314       | 4     | 150   | 14310       | 0            | -63.5 |                      |              |            | 0         | 34    | 308   | 3      | 150          | 14303       | 0                    | -65.0        |            |           | 0     | 45 | 7   | 7   |    |  |  |  |
| 200   | 12512  | 0            | -50.0 |                      | 0            | 64         | 297       | 7     | 200   | 12491       | 0            | -50.2 |                      |              |            | 0         | 31    | 268   | 4      | 200          | 12496       | 0                    | -51.6        |            |           | 0     | 41 | 2   | 6   |    |  |  |  |
| 300   | 9739   | 0            | -29.0 | 17.5                 | 0            | 26         | 306       | 3     | 300   | 9721        | 0            | -29.2 | 17.1                 |              |            | 0         | 27    | 207   | 3      | 300          | 9740        | 0                    | -30.2        | 12.4       |           |       | 0  | 47  | 74  | 4  |  |  |  |
| 500   | 5890   | 0            | -2.9  | 19.4                 | 0            | 39         | 353       | 3     | 500   | 5884        | 0            | -4.4  | 14.9                 |              |            | 0         | 37    | 200   | 4      | 500          | 5907        | 0                    | -5.1         | 8.0        |           |       | 0  | 59  | 93  | 5  |  |  |  |
| 700   | 3147   | 0            | 12.5  | 21.0                 | 0            | 33         | 59        | 3     | 700   | 3152        | 0            | 11.6  | 12.5                 |              |            | 0         | 45    | 187   | 5      | 700          | 3184        | 0                    | 10.1         | 9.6        |           |       | 0  | 60  | 119 | 6  |  |  |  |
| 850   | 1498   | 0            | 18.3  | 4.2                  | 0            | 64         | 62        | 6     | 850   | 1503        | 0            | 19.0  | 4.8                  |              |            | 0         | 45    | 163   | 5      | 850          | 1539        | 0                    | 18.6         | 3.0        |           |       | 0  | 67  | 137 | 7  |  |  |  |
| 1007  | * 21   |              | 27.4  | 4.0                  |              |            |           |       | 1009  | * 8         |              | 27.1  | 2.2                  |              |            |           |       |   |        | 1013         | * 9         |                      | 27.5         | 27.0       |           |       |    |     |     |    |  |  |  |
| <b>ASIA - CHINA WU LU MU QI</b><br>51463 SEP 2009 4348N 08739E OB 3     |        |              |       |                      |              |            |           |       | <b>ASIA - CHINA YINCHUAN</b><br>53614 SEP 2009 3828N 10610E OB          |             |              |       |                      |              |            |           |       | <b>ASIA - CHINA BEIJING</b><br>54511 SEP 2009 3956N 11610E OB 3         |        |              |             |                      |              |            |           |       |    |     |     |    |  |  |  |
| 030   | 24028  | 0            | -54.0 | 26.7                 | 1            | 20         | 315       | 1     | 030   | 24106       | 0            | -53.4 |                      |              |            | 1         | 25    | 65  | 1      | 030          | 24091       | 0                    | -53.0        | 27.3       |           |       | 1  | 20  | 215 | 1  |  |  |  |
| 050   | 20786  | 0            | -58.0 | 25.3                 | 1            | 86         | 279       | 6     | 050   | 20864       | 0            | -59.6 |                      |              |            | 0         | 60    | 302   | 3      | 050          | 20839       | 0                    | -58.4        | 25.7       |           |       | 1  | 83  | 283 | 5  |  |  |  |
| 100   | 16460  | 0            | -59.9 | 23.4                 | 0            | 95         | 265       | 21    | 100   | 16637       | 0            | -67.8 | 11.4                 |              |            | 0         | 95    | 280   | 21     | 100          | 16570       | 0                    | -64.2        | 15.9       |           |       | 0  | 96  | 279 | 23 |  |  |  |
| 150   | 13916  | 0            | -57.0 | 21.9                 | 0            | 97         | 262       | 34    | 150   | 14162       | 0            | -59.6 | 14.1                 |              |            | 0         | 97    | 279   | 33     | 150          | 14064       | 0                    | -58.6        | 18.6       |           |       | 0  | 95  | 282 | 37 |  |  |  |
| 200   | 12082  | 0            | -54.2 | 17.4                 | 0            | 97         | 260       | 35    | 200   | 12329       | 0            | -51.2 | 12.4                 |              |            | 0         | 97    | 276   | 36     | 200          | 12226       | 0                    | -51.5        | 16.1       |           |       | 0  | 98  | 283 | 41 |  |  |  |
| 300   | 9424   | 0            | -41.5 | 12.9                 | 0            | 92         | 265       | 23    | 300   | 9597        | 0            | -33.3 | 10.9                 |              |            | 0         | 96    | 278   | 26     | 300          | 9515        | 0                    | -36.0        | 13.9       |           |       | 0  | 97  | 280 | 31 |  |  |  |
| 500   | 5752   | 0            | -13.8 | 18.4                 | 0            | 92         | 275       | 11    | 500   | 5817        | 0            | -8.0  | 12.6                 |              |            | 0         | 92    | 269   | 11     | 500          | 5778        | 0                    | -11.0        | 16.9       |           |       | 0  | 93  | 278 | 14 |  |  |  |
| 700   | 3113   | 0            | 3.3   | 14.6                 | 0            | 14         | 270       | 1     | 700   | 3125        | 0            | 7.3   | 11.2                 |              |            | 0         | 17    | 286   | 1      | 700          | 3116        | 0                    | 4.2          | 16.8       |           |       | 0  | 62  | 278 | 5  |  |  |  |
| 850   | 1514   | 0            | 12.2  | 15.8                 | 0            | 50         | 27        | 2     | 850   | 1502        | 0            | 15.1  | 8.5                  |              |            | 0         | 25    | 129   | 1      | 850          | 1510        | 0                    | 12.8         | 11.5       |           |       | 0  | 29  | 281 | 2  |  |  |  |
| 911   | * 947  |              | 12.8  | 8.0                  |              |            |           |       | 890   | *1112       |              | 13.7  | 3.3                  |              |            |           |       |   |        | 1011         | * 55        |                      | 18.2         | 4.7        |           |       |    |     |     |    |  |  |  |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |  | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE  |        |              | VECTOR WIND |                      |              |            |           |       |     |    |
|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|-----|----|
| PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |     |    |
| hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm    |              | °C          | °C                   |              | %          | o         | mps   |     |    |
| <b>ASIA - CHINA</b><br><b>LHASA</b><br>55591 SEP 2009 2940N 09108E OB 3          |        |              |       |                      |              |            |           |       | <b>ASIA - CHINA</b><br><b>KUNMING</b><br>56778 SEP 2009 2501N 10240E OB 3          |             |              |       |                      |              |            |           |       | <b>ASIA - CHINA</b><br><b>SHANGHAI</b><br>58362 SEP 2009 3124N 12120E OB 3                         |        |              |             |                      |              |            |           |       |     |    |
| 030  | 24050  | 0            | -55.0 |                      | 1            |            | 84        | 12    | 030  | 24006       | 0            | -55.9 |                      |              | 0          |           | 85    | 17   | 030    | 24064        | 0           | -54.7                |              |            | 1         |       | 90  | 9  |
| 050  | 20844  | 0            | -62.8 |                      | 0            |            | 97        | 7     | 050  | 20808       | 0            | -64.0 |                      |              | 0          |           | 88    | 13   | 050    | 20847        | 0           | -61.6                |              |            | 0         | 80    | 92  | 4  |
| 100  | 16747  | 0            | -75.6 |                      | 0            | 56         | 254       | 5     | 100  | 16736       | 0            | -77.3 |                      |              | 0          | 82        | 81    | 9  | 100    | 16714        | 0           | -74.2                |              |            | 0         | 83    | 287 | 10 |
| 150  | 14336  | 0            | -63.0 | 12.3                 | 0            | 69         | 267       | 9     | 150  | 14338       | 0            | -63.6 |                      |              | 0          | 27        | 63    | 3  | 150    | 14295        | 0           | -62.8                |              |            | 0         | 85    | 282 | 17 |
| 200  | 12508  | 0            | -49.3 | 17.7                 | 0            | 71         | 263       | 10    | 200  | 12515       | 0            | -49.6 | 17.6                 |              | 0          | 27        | 78    | 3  | 200    | 12474        | 0           | -50.8                | 16.2         |            | 0         | 81    | 280 | 17 |
| 300  | 9724   | 0            | -28.0 | 19.7                 | 0            | 80         | 249       | 8     | 300  | 9736        | 0            | -28.1 | 20.7                 |              | 0          | 33        | 104   | 3  | 300    | 9713         | 0           | -29.5                | 17.4         |            | 0         | 78    | 270 | 14 |
| 500  | 5868   | 0            | -3.5  | 4.3                  | 0            | 40         | 210       | 2     | 500  | 5876        | 0            | -3.4  | 12.6                 |              | 0          | 25        | 153   | 1  | 500    | 5873         | 0           | -4.4                 | 17.5         |            | 0         | 82    | 263 | 9  |
| 656  | *3650  |              | 10.5  | 5.4                  |              |            |           |       | 700  | 3144        | 0            | 10.0  | 3.4                  |              | 0          | 17        | 173   | 1  | 700    | 3150         | 0           | 9.1                  | 11.7         |            | 0         | 71    | 262 | 5  |
|  |        |              |       |                      |              |            |           |       | 812  | *1892       |              | 17.3  | 3.1                  |              |            |           |       |  | 850    | 1516         | 0           | 16.2                 | 7.9          |            | 0         | 20    | 22  | 1  |
|  |        |              |       |                      |              |            |           |       |  |             |              |       |                      |              |            |           |       | 1013   | * 8    |              | 24.4        | 4.0                  |              |            |           |       |     |    |
| <b>AFRICA - MADEIRA</b><br><b>FUNCHAL</b><br>08522 SEP 2009 3238N 01654W OB 3    |        |              |       |                      |              |            |           |       | <b>AFRICA - CAPE VERDE</b><br><b>SAL</b><br>08594 SEP 2009 1644N 02257W OB 2       |             |              |       |                      |              |            |           |       | <b>AFRICA - SPAIN (CANARY ISLANDS)</b><br><b>TENERIFE-GUIMAR</b><br>60018 SEP 2009 2819N 01623W OB |        |              |             |                      |              |            |           |       |     |    |
| 030  | 24075  | 0            | -53.7 | 32.3                 | 0            | 91         | 99        | 4     | 030  |             |              |       |                      |              |            |           |       |  | 030    | 24022        | 0           | -54.4                | 32.1         | 0          | 97        | 90    | 13  |    |
| 050  | 20830  | 0            | -58.4 | 30.1                 | 0            | 64         | 110       | 2     | 050  | 20750       | 0            | -62.8 | 25.4                 |              |            |           |       | 050  | 20795  | 0            | -60.3       | 29.7                 | 0            | 93         | 95        | 8     |     |    |
| 100  | 16542  | 0            | -64.1 | 26.8                 | 0            | 82         | 273       | 3     | 100  | 16623       | 0            | -76.6 | 13.3                 |              |            |           |       | 100  | 16559  | 0            | -67.7       | 18.6                 | 0            | 81         | 263       | 9     |     |    |
| 150  | 14053  | 0            | -61.6 | 24.5                 | 0            | 86         | 273       | 7     | 150  | 14254       | 0            | -67.4 | 15.1                 |              | 2          | 68        | 190   | 7  | 150    | 14110        | 0           | -64.1                | 15.6         | 0          | 93        | 266   | 25  |    |
| 200  | 12247  | 0            | -55.0 | 19.0                 | 0            | 64         | 275       | 6     | 200  | 12467       | 0            | -53.7 | 17.9                 |              | 1          | 53        | 185   | 4  | 200    | 12314        | 0           | -54.7                | 15.2         | 0          | 92        | 270   | 30  |    |
| 300  | 9566   | 0            | -38.4 | 15.0                 | 0            | 43         | 293       | 4     | 300  | 9727        | 0            | -30.9 | 7.3                  |              | 1          | 48        | 150   | 2  | 300    | 9613         | 0           | -35.9                | 14.7         | 0          | 89        | 266   | 21  |    |
| 500  | 5846   | 0            | -10.6 | 19.3                 | 0            | 37         | 326       | 2     | 500  | 5907        | 0            | -5.4  | 3.2                  |              | 1          | 77        | 110   | 5  | 500    | 5865         | 0           | -9.3                 | 16.3         | 0          | 86        | 268   | 11  |    |
| 700  | 3175   | 0            | 6.2   | 19.1                 | 0            | 47         | 20        | 2     | 700  | 3192        | 0            | 10.3  | 9.8                  |              | 1          | 89        | 110   | 10   | 700    | 3175         | 0           | 8.5                  | 17.3         | 0          | 81        | 267   | 9   |    |
| 850  | 1563   | 0            | 13.0  | 6.7                  | 0            | 70         | 31        | 2     | 850  | 1543        | 0            | 20.2  | 9.1                  |              | 0          | 87        | 100   | 7  | 850    | 1546         | 0           | 16.3                 | 10.6         | 0          | 54        | 333   | 2   |    |
| 1014   | * 58   |              | 24.8  | 8.2                  |              |            |           |       | 1008   | * 63        |              | 28.2  | 4.5                  |              |            |           |       | 1005   | * 111  |              | 23.1        | 6.4                  |              |            |           |       |     |    |
| <b>AFRICA - MOROCCO</b><br><b>CASABLANCA</b><br>60155 SEP 2009 3334N 00740W OB 1 |        |              |       |                      |              |            |           |       | <b>AFRICA - ALGERIA</b><br><b>DAR-EL-BEIDA</b><br>60390 SEP 2009 3641N 00313E OB 3 |             |              |       |                      |              |            |           |       | <b>AFRICA - ALGERIA</b><br><b>BECHAR</b><br>60571 SEP 2009 3130N 00215W OB 3                       |        |              |             |                      |              |            |           |       |     |    |
| 030  | 24093  | 0            | -54.5 | 29.5                 | 5            | 87         | 80        | 7     | 030  |             |              |       |                      |              |            |           |       |  | 030    |              |             |                      |              |            |           |       |     |    |
| 050  | 20852  | 0            | -58.3 | 27.6                 | 3            | 50         | 94        | 2     | 050  | 20846       | 0            | -57.0 | 28.9                 |              | 4          | 35        | 150   | 2  | 050    | 20845        | 0           | -59.3                |              |            | 9         | 83    | 100 | 5  |
| 100  | 16547  | 0            | -62.9 | 22.1                 | 1            | 76         | 270       | 8     | 100  | 16562       | 0            | -61.1 | 23.9                 |              | 0          | 86        | 260   | 9  | 100    | 16554        | 0           | -64.3                |              |            | 1         | 87    | 260 | 11 |
| 150  | 14037  | 0            | -60.4 | 19.2                 | 0            | 86         | 267       | 15    | 150  | 13990       | 0            | -60.0 | 19.6                 |              | 0          | 90        | 260   | 14   | 150    | 14067        | 0           | -61.5                |              |            | 0         | 93    | 260 | 23 |
| 200  | 12222  | 0            | -54.5 | 16.2                 | 0            | 73         | 268       | 15    | 200  | 12181       | 0            | -56.2 | 14.5                 |              | 0          | 83        | 260   | 15   | 200    | 12262        | 0           | -55.9                |              |            | 0         | 89    | 260 | 25 |
| 300  | 9546   | 0            | -38.6 | 13.0                 | 0            | 60         | 258       | 10    | 300  | 9522        | 0            | -39.7 | 11.9                 |              | 0          | 73        | 260   | 12   | 300    | 9585         | 0           | -37.9                | 13.1         | 0          | 87        | 260   | 20  |    |
| 500  | 5827   | 0            | -10.6 | 15.4                 | 0            | 54         | 272       | 6     | 500  | 5821        | 0            | -11.9 | 17.1                 |              | 1          | 64        | 260   | 7  | 500    | 5857         | 0           | -10.5                | 12.8         | 0          | 83        | 260   | 12  |    |
| 700  | 3153   | 0            | 6.6   | 14.8                 | 2            | 66         | 244       | 5     | 700  | 3161        | 0            | 4.8   | 12.0                 |              | 0          | 60        | 260   | 5  | 700    | 3182         | 0           | 7.1                  | 8.0          | 0          | 70        | 250   | 6   |    |
| 850  | 1532   | 0            | 15.7  | 11.1                 | 2            | 39         | 236       | 2     | 850  | 1546        | 0            | 15.1  | 8.0                  |              | 0          | 17        | 240   | 1  | 850    | 1547         | 0           | 19.6                 | 13.8         | 0          | 18        | 130   | 1   |    |
| 1009   | * 57   |              | 21.5  | 20.6                 |              |            |           |       | 1014   | * 29        |              | 23.8  | 5.5                  |              |            |           |       | 925  | * 816  |              | 25.9        | 12.1                 |              |            |           |       |     |    |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           |       | LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           |       | LEVEL   |        | TEMPERATURE  |      |                      | VECTOR WIND  |            |           |       |     |    |
|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|------|----------------------|--------------|------------|-----------|-------|-----|----|
| PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |     |    |
| hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C   | °C                   |              | %          | o         | mps   |     |    |
| <b>AFRICA - ALGERIA IN-SALAH</b><br>60630 SEP 2009 2714N 00230E OB 2   |        |              |       |                      |              |            |           |       | <b>AFRICA - ALGERIA TINDOUF</b><br>60656 SEP 2009 2742N 00810W OB 2              |        |              |       |                      |              |            |           |       | <b>AFRICA - ALGERIA TAMANRASSET</b><br>60680 SEP 2009 2248N 00526E OB 3                       |        |              |      |                      |              |            |           |       |     |    |
| 030  |        |              |       |                      |              |            |           |       | 030  |        |              |       |                      |              |            |           |       |   | 030    |              |      |                      |              |            |           |       |     |    |
| 050  | 20804  | 0            | -60.3 |                      | 7            | 98         | 110       | 10    | 050  | 20816  | 0            | -60.6 |                      |              | 1          | 90        | 100   | 9   | 050    | 20776        | 0    | -62.2                |              |            | 9         | 95    | 90  | 13 |
| 100  | 16601  | 0            | -69.5 |                      | 0            | 89         | 260       | 12    | 100  | 16585  | 0            | -68.4 |                      |              | 1          | 75        | 270   | 9   | 100    | 16630        | 0    | -73.9                |              |            | 3         | 75    | 230 | 6  |
| 150  | 14163  | 0            | -63.9 |                      | 0            | 96         | 260       | 24    | 150  | 14138  | 0            | -64.0 |                      |              | 0          | 92        | 270   | 26  | 150    | 14234        | 0    | -65.8                |              |            | 2         | 92    | 250 | 13 |
| 200  | 12367  | 0            | -55.1 |                      | 0            | 92         | 260       | 23    | 200  | 12340  | 0            | -54.7 |                      |              | 0          | 93        | 270   | 30  | 200    | 12438        | 0    | -53.8                |              |            | 2         | 90    | 260 | 13 |
| 300  | 9668   | 0            | -35.4 | 15.5                 | 0            | 89         | 250       | 16    | 300  | 9638   | 0            | -35.6 | 16.3                 |              | 0          | 91        | 270   | 23  | 300    | 9716         | 0    | -33.5                | 17.4         |            | 1         | 76    | 250 | 8  |
| 500  | 5909   | 0            | -8.9  | 13.1                 | 0            | 83         | 240       | 12    | 500  | 5883   | 0            | -9.8  | 15.4                 |              | 0          | 93        | 270   | 14  | 500    | 5936         | 0    | -8.8                 |              |            | 0         | 38    | 180 | 2  |
| 700  | 3211   | 0            | 10.7  | 14.0                 | 0            | 76         | 250       | 9     | 700  | 3185   | 0            | 10.4  | 20.7                 |              | 0          | 84        | 270   | 11  | 700    | 3229         | 0    | 12.8                 | 13.3         |            | 0         | 46    | 180 | 2  |
| 850  | 1559   | 0            | 23.2  | 19.5                 | 1            | 55         | 240       | 4     | 850  | 1536   | 0            | 21.5  | 21.3                 |              | 0          | 75        | 280   | 6   | 850    | 1554         | 0    | 27.9                 | 26.2         |            | 0         | 38    | 80  | 2  |
| 983  | * 269  |              | 36.1  | 36.1                 |              |            |           |       | 963  | * 443  |              | 29.5  | 17.3                 |              |            |           |       |   | 868    | *1364        |      | 28.6                 | 20.8         |            |           |       |     |    |
| <b>AFRICA - SENEGAL DAKAR/YOFF</b><br>61641 SEP 2009 1444N 01730W OB 3 |        |              |       |                      |              |            |           |       | <b>AFRICA - OCEAN ISLANDS ST. HELENA IS.</b><br>61901 SEP 2009 1556S 00540W OB 3 |        |              |       |                      |              |            |           |       | <b>AFRICA - OCEAN ISLANDS SERGE-FROLOW (ILE TROMELIN)</b><br>61976 SEP 2009 1548S 05430E OB 2 |        |              |      |                      |              |            |           |       |     |    |
| 030  | 23905  | 0            | -56.9 | 31.4                 | 4            | 99         | 90        | 22    | 030  | 23894  | 0            | -56.8 | 31.6                 |              | 8          | 98        | 85    | 13  | 030    |              |      |                      |              |            |           |       |     |    |
| 050  | 20724  | 0            | -64.1 | 28.6                 | 1            | 97         | 85        | 13    | 050  | 20695  | 0            | -63.4 | 28.6                 |              | 8          | 80        | 108   | 5   | 050    | 20684        | 0    | -64.0                | 28.0         |            | 2         | 86    | 93  | 6  |
| 100  | 16622  | 0            | -77.4 | 8.6                  | 0            | 52         | 90        | 4     | 100  | 16585  | 0            | -73.9 | 15.6                 |              | 8          | 83        | 281   | 9   | 100    | 16602        | 0    | -76.8                | 12.7         |            | 0         | 57    | 315 | 4  |
| 150  | 14255  | 0            | -67.4 | 8.6                  | 0            | 56         | 110       | 6     | 150  | 14170  | 0            | -64.4 | 18.4                 |              | 8          | 95        | 279   | 18  | 150    | 14219        | 0    | -65.8                | 17.0         |            | 0         | 90    | 309 | 14 |
| 200  | 12465  | 0            | -53.4 | 10.5                 | 0            | 60         | 110       | 6     | 200  | 12373  | 0            | -55.1 | 18.1                 |              | 8          | 96        | 282   | 21  | 200    | 12424        | 0    | -53.6                | 19.6         |            | 0         | 92    | 316 | 18 |
| 300  | 9723   | 0            | -30.9 | 13.6                 | 0            | 73         | 100       | 5     | 300  | 9669   | 0            | -34.3 | 23.7                 |              | 8          | 96        | 281   | 15  | 300    | 9694         | 0    | -32.3                | 21.7         |            | 0         | 89    | 290 | 12 |
| 500  | 5902   | 0            | -5.7  | 10.2                 | 0            | 85         | 90        | 8     | 500  | 5886   | 0            | -6.8  | 34.2                 |              | 8          | 77        | 282   | 6   | 500    | 5883         | 0    | -4.6                 | 33.2         |            | 0         | 54    | 261 | 4  |
| 700  | 3188   | 0            | 10.5  | 10.2                 | 0            | 85         | 95        | 10    | 700  | 3185   | 0            | 9.6   | 22.5                 |              | 8          | 54        | 296   | 4   | 700    | 3160         | 0    | 8.7                  | 26.0         |            | 0         | 54    | 130 | 4  |
| 850  | 1539   | 0            | 19.9  | 7.2                  | 0            | 68         | 95        | 5     | 850  | 1547   | 0            | 17.8  | 29.4                 |              | 8          | 80        | 111   | 6   | 850    | 1544         | 0    | 13.2                 | 6.0          |            | 0         | 89    | 113 | 8  |
| 1010   | * 27   |              | 27.8  | 27.3                 |              |            |           |       | 970  | * 436  |              | 16.8  | 3.2                  |              |            |           |       |   | 1017   | * 13         |      | 26.0                 | 6.2          |            |           |       |     |    |
| <b>AFRICA - EGYPT MERSA MATRUH</b><br>62306 SEP 2009 3120N 02713E OB 3 |        |              |       |                      |              |            |           |       | <b>AFRICA - EGYPT HELWAN</b><br>62378 SEP 2009 2952N 03120E OB 3                 |        |              |       |                      |              |            |           |       | <b>AFRICA - EGYPT SOUTH OF VALLEY UNIVERSITY</b><br>62403 SEP 2009 2612N 03245E OB            |        |              |      |                      |              |            |           |       |     |    |
| 030  |        |              |       |                      |              |            |           |       | 030  | 24041  | 0            | -54.7 | 32.4                 |              | 6          | 95        | 90    | 11  | 030    | 24011        | 0    | -54.7                | 32.4         |            | 2         | 98    | 94  | 14 |
| 050  |        |              |       |                      |              |            |           |       | 050  | 20818  | 0            | -60.6 | 30.8                 |              | 6          | 60        | 80    | 3   | 050    | 20794        | 0    | -54.2                | 37.2         |            | 2         | 97    | 94  | 13 |
| 100  | 16590  | 0            | -67.7 | 28.1                 | 3            | 95         | 257       | 14    | 100  | 16612  | 0            | -70.5 | 25.9                 |              | 6          | 92        | 255   | 13  | 100    | 16656        | 0    | -60.0                |              |            | 2         | 80    | 239 | 8  |
| 150  | 14134  | 0            | -62.1 | 28.9                 | 2            | 95         | 255       | 27    | 150  | 14178  | 0            | -63.2 | 26.5                 |              | 6          | 95        | 255   | 23  | 150    | 14256        | 0    | -48.7                | 41.0         |            | 2         | 93    | 242 | 16 |
| 200  | 12317  | 0            | -52.9 | 27.7                 | 2            | 95         | 259       | 29    | 200  | 12367  | 0            | -52.6 | 26.8                 |              | 6          | 96        | 260   | 26  | 200    | 12452        | 0    | -35.4                |              |            | 2         | 93    | 247 | 17 |
| 300  | 9607   | 0            | -35.3 | 27.6                 | 1            | 95         | 267       | 43    | 300  | 9645   | 0            | -34.3 | 29.8                 |              | 6          | 94        | 265   | 23  | 300    | 9714         | 0    | -13.7                |              |            | 2         | 94    | 255 | 15 |
| 500  | 5854   | 0            | -7.5  | 29.9                 | 0            | 94         | 280       | 15    | 500  | 5864   | 0            | -6.3  | 33.5                 |              | 6          | 94        | 280   | 14  | 500    | 5907         | 0    | 15.6                 |              |            | 2         | 82    | 259 | 7  |
| 700  | 3146   | 0            | 8.6   | 23.6                 | 0            | 91         | 298       | 10    | 700  | 3150   | 0            | 10.3  | 30.1                 |              | 6          | 86        | 300   | 8   | 700    | 3179         | 0    | 34.6                 |              |            | 2         | 88    | 263 | 8  |
| 850  | 1514   | 0            | 18.0  | 19.1                 | 0            | 77         | 319       | 6     | 850  | 1512   | 0            | 18.7  | 20.6                 |              | 6          | 75        | 340   | 7   | 850    | 1523         | 0    | 46.3                 |              |            | 2         | 85    | 316 | 6  |
| 1009   | * 28   |              | 23.9  | 8.6                  |              |            |           |       | 996  | * 141  |              | 24.1  | .4                   |              |            |           |       |   | 998    | * 96         |      | 37.2                 | 31.7         |            |           |       |     |    |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |  | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE  |        |              | VECTOR WIND |                      |              |            |           |       |     |    |
|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|-----|----|
| PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |     |    |
| hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm    |              | °C          | °C                   |              | %          | o         | mps   |     |    |
| <b>AFRICA - EGYPT ASSWAN</b><br>62414 SEP 2009 2358N 03247E OB 3             |        |              |       |                      |              |            |           |       | <b>AFRICA - EGYPT FARAFRA</b><br>62423 SEP 2009 2703N 02759E OB                              |             |              |       |                      |              |            |           |       | <b>AFRICA - SEYCHELLES SEYCHELLES INTER. AIRPORT (R)</b><br>63985 SEP 2009 0441S 05531E OB 3 |        |              |             |                      |              |            |           |       |     |    |
| 030  | 23979  | 0            | -56.1 |                      | 3            | 98         | 80        | 18    | 030  | 24006       | 0            | -54.3 | 32.6                 |              | 2          | 98        | 96    | 12   | 030    | 23821        | 0           | -60.9                | 29.2         |            | 6         | 98    | 92  | 20 |
| 050  | 20784  | 0            | -63.1 |                      | 3            | 98         | 80        | 10    | 050  | 20786       | 0            | -61.7 | 30.5                 |              | 2          | 97        | 98    | 10   | 050    | 20687        | 0           | -66.0                | 24.9         |            | 3         | 89    | 271 | 11 |
| 100  | 16662  | 0            | -75.9 |                      | 3            | 72         | 180       | 5     | 100  | 16631       | 0            | -73.4 | 26.0                 |              | 2          | 84        | 243   | 9  | 100    | 16587        | 0           | -76.7                | 9.2          |            | 2         | 36    | 80  | 3  |
| 150  | 14269  | 0            | -65.0 | 24.7                 | 2            | 83         | 220       | 10    | 150  | 14218       | 0            | -64.3 | 26.8                 |              | 1          | 94        | 250   | 20   | 150    | 14208        | 0           | -65.8                | 12.3         |            | 1         | 25    | 12  | 3  |
| 200  | 12465  | 0            | -52.4 | 21.6                 | 2            | 91         | 235       | 10    | 200  | 12413       | 0            | -52.6 | 28.5                 |              | 1          | 94        | 252   | 21   | 200    | 12413        | 0           | -53.7                | 11.4         |            | 1         | 76    | 67  | 11 |
| 300  | 9723   | 0            | -31.3 | 30.7                 | 2            | 87         | 250       | 8     | 300  | 9683        | 0            | -33.4 | 31.2                 |              | 1          | 95        | 256   | 18   | 300    | 9680         | 0           | -31.7                | 11.8         |            | 1         | 88    | 86  | 9  |
| 500  | 5901   | 0            | -4.7  | 39.8                 | 2            | 50         | 265       | 3     | 500  | 5889        | 0            | -5.8  | 36.8                 |              | 1          | 92        | 273   | 10   | 500    | 5862         | 0           | -5.4                 | 17.5         |            | 1         | 85    | 111 | 4  |
| 700  | 3173   | 0            | 13.1  | 26.3                 | 2            | 84         | 250       | 6     | 700  | 3171        | 0            | 11.2  | 30.3                 |              | 0          | 81        | 310   | 8  | 700    | 3148         | 0           | 10.1                 | 16.7         |            | 1         | 46    | 229 | 3  |
| 850  | 1510   | 0            | 24.4  | 24.2                 | 2            | 70         | 335       | 4     | 850  | 1527        | 0            | 20.5  | 22.9                 |              | 0          | 68        | 344   | 5  | 850    | 1511         | 0           | 16.8                 | 16.4         |            | 0         | 87    | 137 | 6  |
| 986  | * 200  |              | 27.9  | 24.7                 |              |            |           |       | 1002   | * 78        |              | 34.6  | 28.4                 |              |            |           |       |  | 1011   | * 4          |             | 25.9                 | 3.1          |            |           |       |     |    |
| <b>AFRICA - COTE D'IVOIRE ABIDJAN</b><br>65578 SEP 2009 0515N 00356W OB 2    |        |              |       |                      |              |            |           |       | <b>N AMERICA - USA (ALASKA) BARROW/W. POST W. ROGERS</b><br>70026 SEP 2009 7117N 15647W OB 3 |             |              |       |                      |              |            |           |       | <b>N AMERICA - USA (ALASKA) KOTZEBUE, RALPH WIEN</b><br>70133 SEP 2009 6653N 16236W OB 3     |        |              |             |                      |              |            |           |       |     |    |
| 030  | 23857  | 0            | -59.3 | 28.5                 | 3            | 98         | 89        | 23    | 030  | 23856       | 0            | -53.2 | 23.6                 |              | 0          | 95        | 253   | 9  | 030    | 23956        | 0           | -51.4                | 24.7         |            | 2         | 92    | 243 | 8  |
| 050  | 20713  | 0            | -66.1 | 24.5                 | 1            | 39         | 270       | 4     | 050  | 20561       | 0            | -52.2 | 23.8                 |              | 0          | 95        | 243   | 8  | 050    | 20637        | 0           | -51.1                | 24.6         |            | 2         | 94    | 235 | 8  |
| 100  | 16620  | 0            | -77.8 | 9.2                  | 0            | 65         | 91        | 8     | 100  | 16050       | 0            | -49.8 | 24.1                 |              | 0          | 91        | 238   | 7  | 100    | 16113        | 0           | -49.4                | 25.1         |            | 2         | 86    | 225 | 7  |
| 150  | 14250  | 0            | -66.5 | 11.3                 | 0            | 74         | 88        | 8     | 150  | 13393       | 0            | -49.0 | 23.5                 |              | 0          | 88        | 238   | 8  | 150    | 13440        | 0           | -48.5                | 24.2         |            | 1         | 78    | 226 | 7  |
| 200  | 12457  | 0            | -53.1 | 13.8                 | 0            | 86         | 84        | 12    | 200  | 11506       | 0            | -50.2 | 17.7                 |              | 0          | 80        | 238   | 9  | 200    | 11552        | 0           | -50.1                | 18.7         |            | 0         | 74    | 222 | 7  |
| 300  | 9717   | 0            | -31.5 | 13.0                 | 0            | 95         | 77        | 11    | 300  | 8891        | 0            | -51.4 | 8.4                  |              | 0          | 67        | 245   | 10   | 300    | 8934         | 0           | -50.7                | 7.5          |            | 0         | 55    | 208 | 8  |
| 500  | 5898   | 0            | -5.8  | 8.6                  |              |            |           |       | 500  | 5398        | 0            | -27.1 | 9.4                  |              | 0          | 61        | 250   | 7  | 500    | 5427         | 0           | -25.7                | 8.5          |            | 0         | 37    | 201 | 4  |
| 700  | 3183   | 0            | 10.2  | 7.4                  | 0            | 80         | 92        | 6     | 700  | 2892        | 0            | -11.7 | 8.0                  |              | 2          | 37        | 249   | 3  | 700    | 2901         | 0           | -8.9                 | 7.4          |            | 0         | 22    | 163 | 2  |
| 850  | 1542   | 0            | 17.3  | 1.8                  | 0            | 63         |           | 6     | 850  | 1384        | 0            | -4.9  | 6.3                  |              | 3          | 5         | 226   | 1  | 850    | 1373         | 0           | -6                   | 6.5          |            | 0         | 21    | 122 | 1  |
| 1015   | * 8    |              | 25.0  | 1.6                  |              |            |           |       | 1010   | * 12        |              | 1.1   | 1.7                  |              |            |           |       |  | 1007   | * 5          |             | 6.5                  | 6.3          |            |           |       |     |    |
| <b>N AMERICA - USA (ALASKA) NOME, AK</b><br>70200 SEP 2009 6430N 16526W OB 3 |        |              |       |                      |              |            |           |       | <b>N AMERICA - USA (ALASKA) ANCHORAGE/INT., AK</b><br>70273 SEP 2009 6109N 14950W OB 3       |             |              |       |                      |              |            |           |       | <b>N AMERICA - USA (ALASKA) ST. PAUL</b><br>70308 SEP 2009 5709N 17013W OB                   |        |              |             |                      |              |            |           |       |     |    |
| 030  | 23966  | 0            | -50.9 | 27.3                 | 0            | 85         | 254       | 7     | 030  | 24025       | 0            | -51.7 | 26.5                 |              | 2          | 82        | 251   | 6  | 030    | 23938        | 0           | -53.6                | 20.6         |            | 1         | 77    | 253 | 5  |
| 050  | 20641  | 0            | -50.7 | 26.6                 | 0            | 89         | 245       | 7     | 050  | 20711       | 0            | -51.0 | 25.8                 |              | 2          | 82        | 227   | 7  | 050    | 20650        | 0           | -52.8                | 20.7         |            | 0         | 94    | 257 | 8  |
| 100  | 16111  | 0            | -49.4 | 25.4                 | 0            | 79         | 240       | 6     | 100  | 16191       | 0            | -49.9 | 23.5                 |              | 1          | 77        | 230   | 9  | 100    | 16159        | 0           | -50.8                | 20.4         |            | 1         | 91    | 272 | 11 |
| 150  | 13448  | 0            | -48.7 | 23.6                 | 0            | 71         | 240       | 5     | 150  | 13534       | 0            | -48.7 | 22.0                 |              | 1          | 72        | 223   | 9  | 150    | 13515        | 0           | -49.7                | 20.1         |            | 1         | 86    | 279 | 14 |
| 200  | 11559  | 0            | -49.5 | 16.7                 | 1            | 62         | 241       | 6     | 200  | 11645       | 0            | -50.3 | 13.7                 |              | 1          | 66        | 213   | 10   | 200    | 11626        | 0           | -49.0                | 18.0         |            | 1         | 81    | 277 | 16 |
| 300  | 8931   | 0            | -50.0 | 9.4                  | 0            | 39         | 192       | 5     | 300  | 9018        | 0            | -48.0 | 9.5                  |              | 1          | 49        | 200   | 8  | 300    | 8972         | 0           | -47.9                | 10.5         |            | 1         | 61    | 283 | 12 |
| 500  | 5422   | 0            | -25.7 | 9.4                  | 0            | 23         | 171       | 2     | 500  | 5458        | 0            | -23.2 | 6.1                  |              | 0          | 54        | 164   | 6  | 500    | 5436         | 0           | -24.5                | 13.3         |            | 1         | 50    | 298 | 6  |
| 700  | 2899   | 0            | -8.9  | 6.0                  | 0            | 16         | 91        | 1     | 700  | 2916        | 0            | -7.2  | 3.8                  |              | 0          | 68        | 145   | 6  | 700    | 2905         | 0           | -8.7                 | 10.9         |            | 1         | 43    | 332 | 5  |
| 850  | 1372   | 0            | -1.3  | 3.8                  | 0            | 23         | 63        | 1     | 850  | 1376        | 0            | 2.3   | 3.7                  |              | 0          | 60        | 118   | 4  | 850    | 1378         | 0           | -1.6                 | 4.6          |            | 2         | 52    | 343 | 6  |
| 1006   | * 6    |              | 4.0   | 2.8                  |              |            |           |       | 999  | * 50        |              | 7.8   | 2.0                  |              |            |           |       |  | 1007   | * 13         |             | 5.7                  | 1.4          |            |           |       |     |    |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |   | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE   |        |              | VECTOR WIND |                      |              |            |           |       |
|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|
| PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |
| hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o         | mps   |
| <b>N AMERICA - USA (ALASKA)</b><br><b>COLD BAY, AK</b><br>70316 SEP 2009 5512N 16240W OB 3     |        |              |       |                      |              |            |           |       | <b>N AMERICA - USA (ALASKA)</b><br><b>YAKUTAT, AK</b><br>70361 SEP 2009 5931N 13940W OB 3 |             |              |       |                      |              |            |           |       | <b>N AMERICA - USA (ALASKA)</b><br><b>ANNETTE ISLAND</b><br>70398 SEP 2009 5502N 13134W OB      |        |              |             |                      |              |            |           |       |
| 030  | 24038  | 0            | -51.4 | 22.4                 | 2            | 76         | 245       | 4     | 030   | 24053       | 0            | -52.4 | 20.5                 | 5            | 81         | 252       | 5     | 030   | 23989  | 0            | -57.0       | 18.8                 | 6            | 7          | 219       | 1     |
| 050  | 20730  | 0            | -51.8 | 22.3                 | 3            | 80         | 248       | 5     | 050   | 20756       | 0            | -52.2 | 20.6                 | 5            | 86         | 234       | 8     | 050   | 20754  | 0            | -56.0       | 18.5                 | 6            | 53         | 196       | 3     |
| 100  | 16228  | 0            | -50.1 | 22.3                 | 5            | 88         | 262       | 11    | 100   | 16254       | 0            | -50.5 | 20.8                 | 5            | 79         | 224       | 10    | 100   | 16325  | 0            | -54.3       | 18.0                 | 7            | 56         | 214       | 7     |
| 150  | 13572  | 0            | -48.8 | 20.9                 | 4            | 87         | 265       | 15    | 150   | 13604       | 0            | -49.5 | 19.8                 | 3            | 75         | 227       | 13    | 150   | 13718  | 0            | -52.5       | 16.6                 | 7            | 52         | 209       | 9     |
| 200  | 11680  | 0            | -48.4 | 16.6                 | 4            | 82         | 266       | 18    | 200   | 11720       | 0            | -49.9 | 15.6                 | 3            | 70         | 219       | 13    | 200   | 11855  | 0            | -51.4       | 13.9                 | 7            | 48         | 210       | 11    |
| 300  | 9004   | 0            | -46.5 | 7.6                  | 2            | 63         | 264       | 14    | 300   | 9071        | 0            | -46.7 | 6.6                  | 3            | 67         | 214       | 13    | 300   | 9193   | 0            | -43.5       | 9.5                  | 4            | 50         | 215       | 14    |
| 500  | 5441   | 0            | -23.0 | 8.8                  | 1            | 40         | 270       | 5     | 500   | 5505        | 0            | -21.9 | 9.3                  | 3            | 63         | 196       | 8     | 500   | 5581   | 0            | -19.6       | 10.7                 | 0            | 57         | 212       | 10    |
| 700  | 2896   | 0            | -7.4  | 5.6                  | 1            | 28         | 310       | 3     | 700   | 2949        | 0            | -6.1  | 7.8                  | 3            | 61         | 167       | 6     | 700   | 3000   | 0            | -3.9        | 9.6                  | 0            | 62         | 194       | 8     |
| 850  | 1361   | 0            | .5    | 2.4                  | 4            | 45         | 308       | 5     | 850   | 1404        | 0            | 2.3   | 3.7                  | 4            | 70         | 140       | 7     | 850   | 1445   | 0            | 3.4         | 3.3                  | 3            | 73         | 177       | 9     |
| 1001   | * 31   |              | 7.7   | 1.0                  |              |            |           |       | 1007  | * 13        |              | 6.9   | .7                   |              |            |           |       | 1008  | * 36   |              | 10.9        | 1.6                  |              |            |           |       |
| <b>N AMERICA - USA (ALASKA)</b><br><b>SHEMYA AFB</b><br>70414 SEP 2009 5243N 17400E OB 3       |        |              |       |                      |              |            |           |       | <b>N AMERICA - USA</b><br><b>KEY WEST/INT., FL.</b><br>72201 SEP 2009 2433N 08145W OB     |             |              |       |                      |              |            |           |       | <b>N AMERICA - USA</b><br><b>SHREVEPORT/REG., LA.</b><br>72248 SEP 2009 3227N 09350W OB 2       |        |              |             |                      |              |            |           |       |
| 030  |        |              |       |                      |              |            |           |       | 030   | 24019       | 0            | -54.3 | 12.6                 | 2            | 99         | 89        | 16    | 030   | 24027  | 0            | -54.0       | 28.3                 | 0            | 88         | 82        | 7     |
| 050  |        |              |       |                      |              |            |           |       | 050   | 20800       | 0            | -61.8 | 8.9                  | 1            | 99         | 89        | 13    | 050   | 20795  | 0            | -60.3       | 18.2                 | 3            | 75         | 82        | 4     |
| 100  |        |              |       |                      |              |            |           |       | 100   | 16620       | 0            | -73.1 | 7.0                  | 1            | 73         | 19        | 5     | 100   | 16582  | 0            | -69.9       | 12.4                 | 2            | 83         | 267       | 8     |
| 150  |        |              |       |                      |              |            |           |       | 150   | 14224       | 0            | -66.4 | 7.7                  | 1            | 61         | 322       | 6     | 150   | 14142  | 0            | -63.4       | 14.1                 | 0            | 84         | 274       | 18    |
| 200  |        |              |       |                      |              |            |           |       | 200   | 12432       | 0            | -54.0 | 8.8                  | 1            | 48         | 335       | 6     | 200   | 12337  | 0            | -53.8       | 16.1                 | 0            | 85         | 270       | 21    |
| 300  | 9154   | 0            | -43.3 | 9.7                  |              |            |           |       | 300   | 9700        | 0            | -31.8 | 12.1                 | 1            | 38         | 318       | 3     | 300   | 9622   | 0            | -34.4       | 17.4                 | 0            | 71         | 267       | 13    |
| 500  | 5541   | 0            | -19.6 | 18.9                 |              |            |           |       | 500   | 5891        | 0            | -6.5  | 8.1                  | 1            | 23         | 327       | 1     | 500   | 5846   | 0            | -8.1        | 13.3                 | 0            | 76         | 257       | 7     |
| 700  | 2964   | 0            | -4.9  | 15.1                 |              |            |           |       | 700   | 3178        | 0            | 8.9   | 5.3                  | 1            | 10         | 115       | 1     | 700   | 3155   | 0            | 7.2         | 6.5                  | 0            | 34         | 283       | 3     |
| 850  | 1416   | 0            | 1.5   | 1.0                  |              |            |           |       | 850   | 1541        | 0            | 18.0  | 3.8                  | 1            | 32         | 141       | 2     | 850   | 1528   | 0            | 16.0        | 5.1                  | 0            | 23         | 285       | 2     |
| 1008   | * 31   |              | 8.0   | 2.2                  |              |            |           |       | 1012  | * 6         |              | 28.0  | 4.8                  |              |            |           |       | 1005  | * 85   |              | 20.5        | 1.4                  |              |            |           |       |
| <b>N AMERICA - USA</b><br><b>SAN DIEGO/MIRAMAR, NAS, CA.</b><br>72293 SEP 2009 3251N 11707W OB |        |              |       |                      |              |            |           |       | <b>N AMERICA - USA</b><br><b>NEWPORT, NC.</b><br>72305 SEP 2009 3446N 07652W OB 2         |             |              |       |                      |              |            |           |       | <b>N AMERICA - USA</b><br><b>NASHVILLE/OLD HICKORY, TN.</b><br>72327 SEP 2009 3614N 08633W OB 3 |        |              |             |                      |              |            |           |       |
| 030  | 24057  | 0            | -54.9 | 11.0                 | 0            | 93         | 87        | 6     | 030   | 24051       | 0            | -53.4 | 30.1                 | 2            | 81         | 85        | 4     | 030   | 24047  | 0            | -53.6       | 28.8                 | 0            | 37         | 104       | 2     |
| 050  | 20829  | 0            | -60.3 | 9.7                  | 0            | 83         | 97        | 4     | 050   | 20802       | 0            | -59.1 | 19.6                 | 1            | 17         | 116       | 1     | 050   | 20805  | 0            | -59.3       | 19.4                 | 0            | 24         | 75        | 1     |
| 100  | 16605  | 0            | -68.4 | 8.3                  | 0            | 86         | 273       | 7     | 100   | 16556       | 0            | -68.0 | 9.4                  | 1            | 83         | 290       | 9     | 100   | 16548  | 0            | -66.7       | 11.9                 | 0            | 88         | 273       | 9     |
| 150  | 14148  | 0            | -61.9 | 9.2                  | 0            | 94         | 268       | 17    | 150   | 14108       | 0            | -65.1 | 8.9                  | 1            | 80         | 273       | 17    | 150   | 14083  | 0            | -62.7       | 12.9                 | 0            | 92         | 272       | 18    |
| 200  | 12336  | 0            | -53.8 | 10.7                 | 0            | 77         | 273       | 14    | 200   | 12324       | 0            | -55.9 | 11.1                 | 1            | 77         | 264       | 20    | 200   | 12278  | 0            | -55.0       | 14.5                 | 0            | 89         | 268       | 20    |
| 300  | 9633   | 0            | -35.8 | 13.5                 | 0            | 62         | 296       | 9     | 300   | 9623        | 0            | -34.9 | 13.8                 | 1            | 84         | 256       | 16    | 300   | 9584   | 0            | -36.3       | 16.3                 | 0            | 84         | 266       | 15    |
| 500  | 5865   | 0            | -7.1  | 21.5                 | 0            | 44         | 289       | 3     | 500   | 5853        | 0            | -8.3  | 14.3                 | 1            | 86         | 257       | 10    | 500   | 5833   | 0            | -9.4        | 15.3                 | 0            | 72         | 257       | 8     |
| 700  | 3160   | 0            | 9.9   | 15.8                 | 1            | 21         | 192       | 2     | 700   | 3161        | 0            | 6.7   | 10.4                 | 1            | 63         | 281       | 5     | 700   | 3153   | 0            | 5.4         | 5.2                  | 0            | 71         | 258       | 6     |
| 850  | 1512   | 0            | 21.8  | 21.9                 | 1            | 42         | 318       | 2     | 850   | 1542        | 0            | 14.3  | 6.5                  | 1            | 24         | 334       | 2     | 850   | 1539   | 0            | 14.0        | 13.8                 | 0            | 56         | 236       | 4     |
| 996  | * 128  |              | 18.5  | 2.8                  |              |            |           |       | 1016  | * 11        |              | 19.0  | .4                   |              |            |           |       | 996   | * 180  |              | 18.5        | .9                   |              |            |           |       |



# UPPER AIR

# SEPTEMBER 2009

| LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |  | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE  |        |              | VECTOR WIND |                      |              |            |           |       |
|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|
| PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |
| hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm    |              | °C          | °C                   |              | %          | o         | mps   |
| <b>N AMERICA - USA<br/>DODGE CITY/MUN., KS.<br/>72451 SEP 2009 3745N 09958W OB</b>         |        |              |       |                      |              |            |           |       | <b>N AMERICA - USA<br/>PITTSBURGH/GREATER PITTSBURG<br/>72520 SEP 2009 4030N 08013W OB</b>   |             |              |       |                      |              |            |           |       | <b>N AMERICA - USA<br/>BUFFALO/GREATER BUF. INT.,NY<br/>72528 SEP 2009 4256N 07844W OB</b> |        |              |             |                      |              |            |           |       |
| 030  | 24064  | 0            | -53.9 | 14.2                 | 3            | 22         | 85        | 1     | 030  | 24042       | 0            | -53.4 | 29.1                 | 2            | 41         | 258       | 2     | 030  | 24041  | 0            | -53.2       | 27.4                 | 1            | 66         | 274       | 4     |
| 050  | 20823  | 0            | -59.4 | 11.1                 | 2            | 31         | 22        | 1     | 050  | 20794       | 0            | -58.2 | 21.8                 | 2            | 59         | 316       | 3     | 050  | 20789  | 0            | -58.0       | 19.3                 | 2            | 70         | 311       | 4     |
| 100  | 16551  | 0            | -64.4 | 9.5                  | 2            | 76         | 281       | 6     | 100  | 16496       | 0            | -63.6 | 15.8                 | 2            | 89         | 277       | 10    | 100  | 16477  | 0            | -62.5       | 12.9                 | 1            | 85         | 284       | 9     |
| 150  | 14054  | 0            | -59.8 | 10.3                 | 2            | 88         | 278       | 13    | 150  | 13994       | 0            | -59.8 | 16.3                 | 2            | 89         | 276       | 15    | 150  | 13968  | 0            | -59.5       | 12.1                 | 1            | 82         | 283       | 13    |
| 200  | 12231  | 0            | -53.1 | 10.8                 | 1            | 76         | 267       | 14    | 200  | 12177       | 0            | -54.3 | 16.5                 | 2            | 82         | 272       | 19    | 200  | 12135  | 0            | -55.0       | 13.1                 | 1            | 73         | 285       | 16    |
| 300  | 9538   | 0            | -37.7 | 10.3                 | 1            | 66         | 266       | 11    | 300  | 9498        | 0            | -38.9 | 20.0                 | 1            | 60         | 266       | 12    | 300  | 9469   | 0            | -40.2       | 15.3                 | 0            | 64         | 279       | 13    |
| 500  | 5813   | 0            | -11.1 | 13.3                 | 1            | 56         | 284       | 6     | 500  | 5791        | 0            | -12.1 | 19.8                 | 0            | 55         | 274       | 6     | 500  | 5777   | 0            | -12.5       | 14.9                 | 0            | 52         | 292       | 7     |
| 700  | 3140   | 0            | 6.2   | 9.9                  | 1            | 50         | 301       | 4     | 700  | 3134        | 0            | 3.9   | 15.4                 | 1            | 54         | 274       | 5     | 700  | 3123   | 0            | 3.2         | 16.5                 | 0            | 45         | 283       | 4     |
| 850  | 1523   | 0            | 14.3  | 7.4                  | 2            | 25         | 278       | 3     | 850  | 1534        | 0            | 11.0  | 10.4                 | 1            | 34         | 269       | 3     | 850  | 1529   | 0            | 9.8         | 8.2                  | 0            | 33         | 299       | 3     |
| 927  | * 790  |              | 13.7  | 13.6                 |              |            |           |       | 977  | * 373       |              | 13.9  | .8                   |              |            |           |       | 993  | * 220  |              | 13.0        | 12.9                 |              |            |           |       |
| <b>N AMERICA - USA<br/>NORTH PLATTE/LEE BIRD, NE.<br/>72562 SEP 2009 4107N 10040W OB 3</b> |        |              |       |                      |              |            |           |       | <b>N AMERICA - USA<br/>MEDFORD/MEDFORD-JACKSON COUN<br/>72597 SEP 2009 4223N 12250W OB 3</b> |             |              |       |                      |              |            |           |       | <b>N AMERICA - USA<br/>CHANHASSEN, MN.<br/>72649 SEP 2009 4451N 09333W OB 2</b>            |        |              |             |                      |              |            |           |       |
| 030  | 24059  | 0            | -54.5 | 23.8                 | 0            | 31         | 287       | 1     | 030  | 24069       | 0            | -55.3 | 17.1                 | 1            | 19         | 329       | 1     | 030  | 24038  | 0            | -54.7       | 25.7                 | 1            | 56         | 308       | 3     |
| 050  | 20827  | 0            | -59.6 | 16.5                 | 0            | 44         | 359       | 2     | 050  | 20842       | 0            | -59.0 | 13.8                 | 1            | 8          | 266       | 1     | 050  | 20807  | 0            | -59.4       | 16.7                 | 1            | 58         | 353       | 3     |
| 100  | 16542  | 0            | -62.7 | 13.5                 | 0            | 66         | 293       | 5     | 100  | 16543       | 0            | -63.2 | 10.9                 | 0            | 72         | 258       | 8     | 100  | 16502  | 0            | -62.3       | 12.7                 | 1            | 76         | 303       | 6     |
| 150  | 14027  | 0            | -58.8 | 13.8                 | 0            | 78         | 287       | 9     | 150  | 14042       | 0            | -60.4 | 11.5                 | 0            | 65         | 251       | 11    | 150  | 13986  | 0            | -59.2       | 12.6                 | 1            | 58         | 278       | 7     |
| 200  | 12198  | 0            | -53.8 | 14.4                 | 0            | 58         | 272       | 9     | 200  | 12229       | 0            | -55.1 | 12.5                 | 0            | 50         | 258       | 12    | 200  | 12166  | 0            | -53.9       | 13.9                 | 1            | 56         | 303       | 8     |
| 300  | 9515   | 0            | -38.3 | 16.9                 | 0            | 40         | 294       | 6     | 300  | 9549        | 0            | -37.7 | 17.1                 | 0            | 57         | 246       | 11    | 300  | 9495   | 0            | -39.6       | 16.9                 | 1            | 27         | 310       | 4     |
| 500  | 5806   | 0            | -11.8 | 16.9                 | 0            | 40         | 315       | 4     | 500  | 5815        | 0            | -9.7  | 18.7                 | 0            | 72         | 235       | 11    | 500  | 5795   | 0            | -11.9       | 16.7                 | 1            | 30         | 279       | 3     |
| 700  | 3138   | 0            | 6.1   | 15.8                 | 0            | 35         | 318       | 3     | 700  | 3136        | 0            | 6.9   | 22.4                 | 0            | 71         | 218       | 7     | 700  | 3137   | 0            | 4.1         | 13.6                 | 1            | 23         | 244       | 2     |
| 850  | 1524   | 0            | 13.0  | 5.8                  | 0            | 27         | 203       | 3     | 850  | 1516        | 0            | 14.8  | 14.2                 | 0            | 31         | 143       | 1     | 850  | 1536   | 0            | 11.5        | 5.0                  | 2            | 32         | 213       | 2     |
| 921  | * 849  |              | 11.2  | 1.4                  |              |            |           |       | 970  | * 398       |              | 13.4  | 6.0                  |              |            |           |       | 985  | * 290  |              | 13.5        | 1.4                  |              |            |           |       |
| <b>N AMERICA - USA<br/>INT.FALLS/FALLS INT. MN.<br/>72747 SEP 2009 4833N 09323W OB 3</b>   |        |              |       |                      |              |            |           |       | <b>N AMERICA - CANADA<br/>NORMAN WELLS UA,<br/>71043 SEP 2009 6517N 12640W OB 3</b>          |             |              |       |                      |              |            |           |       | <b>N AMERICA - CANADA<br/>HALL BEACH UA, NU<br/>71081 SEP 2009 6846N 08113W OB 3</b>       |        |              |             |                      |              |            |           |       |
| 030  | 24027  | 0            | -55.5 | 12.1                 | 2            | 64         | 341       | 3     | 030  | 24022       | 0            | -53.3 | 32.8                 | 1            | 92         | 270       | 8     | 030  | 23900  | 0            | -53.6       | 32.0                 |              | 74         | 306       | 7     |
| 050  | 20801  | 0            | -58.7 | 13.2                 | 2            | 70         | 332       | 4     | 050  | 20732       | 0            | -52.9 | 32.7                 | 1            | 95         | 257       | 9     | 050  | 20606  | 0            | -52.1       | 32.8                 | 9            | 91         | 309       | 10    |
| 100  | 16474  | 0            | -61.1 | 10.7                 | 1            | 81         | 299       | 8     | 100  | 16237       | 0            | -51.1 | 32.9                 | 0            | 96         | 250       | 13    | 100  | 16091  | 0            | -49.2       | 33.2                 | 9            | 91         | 298       | 13    |
| 150  | 13951  | 0            | -59.5 | 10.5                 | 1            | 72         | 292       | 9     | 150  | 13591       | 0            | -50.5 | 32.5                 | 1            | 94         | 245       | 16    | 150  | 13424  | 0            | -47.7       | 33.4                 | 9            | 91         | 304       | 16    |
| 200  | 12138  | 0            | -56.1 | 10.7                 | 1            | 57         | 312       | 9     | 200  | 11722       | 0            | -52.2 | 23.9                 | 1            | 91         | 244       | 19    | 200  | 11524  | 0            | -48.2       | 30.4                 | 9            | 88         | 303       | 19    |
| 300  | 9480   | 0            | -40.0 | 13.3                 | 1            | 48         | 307       | 6     | 300  | 9095        | 0            | -46.7 | 9.7                  | 1            | 83         | 243       | 18    | 300  | 8878   | 0            | -49.2       | 10.2                 | 9            | 79         | 311       | 22    |
| 500  | 5778   | 0            | -11.8 | 15.3                 | 1            | 57         | 297       | 6     | 500  | 5515        | 0            | -20.9 | 10.6                 | 1            | 79         | 249       | 10    | 500  | 5360   | 0            | -26.1       | 9.8                  | 8            | 79         | 318       | 14    |
| 700  | 3119   | 0            | 3.8   | 14.3                 | 1            | 53         | 272       | 5     | 700  | 2953        | 0            | -5.9  | 5.6                  | 0            | 68         | 266       | 6     | 700  | 2851   | 0            | -11.7       | 10.0                 | 6            | 75         | 318       | 9     |
| 850  | 1520   | 0            | 11.2  | 4.9                  | 1            | 56         | 260       | 4     | 850  | 1402        | 0            | 3.3   | 5.9                  | 0            | 34         | 261       | 3     | 850  | 1346   | 0            | -5.6        | 5.5                  | 5            | 68         | 322       | 7     |
| 975  | * 362  |              | 12.7  | .8                   |              |            |           |       | 1000   | * 95        |              | 6.0   | 2.8                  |              |            |           |       | 1008   | *      |              | -3          | .5                   |              |            |           |       |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |  | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE   |        |              | VECTOR WIND |                      |              |            |           |       |  |
|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|--|
| PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |  |
| hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o         | mps   |  |
| <b>N AMERICA - CANADA</b><br><b>ALERT UA, NU</b><br>71082 SEP 2009 8230N 06220W OB 3         |        |              |       |                      |              |            |           |       | <b>N AMERICA - CANADA</b><br><b>SEPT-ILES UA, QUE</b><br>71811 SEP 2009 5013N 06615W OB 3  |             |              |       |                      |              |            |           |       | <b>N AMERICA - CANADA</b><br><b>GOOSE UA, NFLD</b><br>71816 SEP 2009 5318N 06022W OB 3    |        |              |             |                      |              |            |           |       |  |
| 030  | 23775  | 0            | -53.1 | 32.1                 | 2            | 53         | 297       | 2     | 030  | 24028       | 0            | -52.4 | 32.5                 | 2            | 89         | 259       | 6     | 030   | 24005  | 0            | -52.0       | 32.8                 | 4            | 86         | 253       | 6     |  |
| 050  | 20472  | 0            | -51.6 | 32.4                 | 2            | 43         | 267       | 2     | 050  | 20754       | 0            | -55.8 | 31.4                 | 2            | 82         | 285       | 6     | 050   | 20721  | 0            | -54.4       | 32.0                 | 5            | 78         | 269       | 6     |  |
| 100  | 15945  | 0            | -48.5 | 33.2                 | 1            | 39         | 286       | 2     | 100  | 16351       | 0            | -56.3 | 30.6                 | 0            | 86         | 285       | 13    | 100   | 16282  | 0            | -54.3       | 32.0                 | 3            | 81         | 275       | 11    |  |
| 150  | 13269  | 0            | -47.0 | 33.4                 | 1            | 7          | 90        | 1     | 150  | 13768       | 0            | -54.3 | 28.7                 | 1            | 81         | 282       | 18    | 150   | 13671  | 0            | -52.2       | 30.5                 | 3            | 80         | 279       | 18    |  |
| 200  | 11361  | 0            | -46.7 | 33.0                 | 1            | 29         | 96        | 2     | 200  | 11922       | 0            | -53.4 | 21.1                 | 1            | 75         | 279       | 21    | 200   | 11807  | 0            | -52.1       | 23.6                 | 3            | 73         | 283       | 21    |  |
| 300  | 8723   | 0            | -53.3 | 7.9                  | 1            | 38         | 91        | 5     | 300  | 9265        | 0            | -43.1 | 11.6                 | 0            | 63         | 285       | 18    | 300   | 9158   | 0            | -44.4       | 10.6                 | 5            | 62         | 288       | 19    |  |
| 500  | 5272   | 0            | -30.8 | 7.5                  | 1            | 34         | 82        | 4     | 500  | 5632        | 0            | -17.3 | 13.0                 | 1            | 73         | 285       | 14    | 500   | 5549   | 0            | -19.1       | 13.2                 | 4            | 72         | 295       | 15    |  |
| 700  | 2807   | 0            | -16.2 | 6.1                  | 1            | 17         | 49        | 1     | 700  | 3030        | 0            | -2.1  | 11.8                 | 0            | 69         | 290       | 9     | 700   | 2971   | 0            | -5.0        | 9.9                  | 3            | 73         | 303       | 11    |  |
| 850  | 1327   | 0            | -10.0 | 3.1                  | 1            | 48         | 337       | 3     | 850  | 1465        | 0            | 5.2   | 8.4                  | 0            | 61         | 300       | 6     | 850   | 1423   | 0            | 2.1         | 5.0                  | 4            | 61         | 302       | 8     |  |
| 998  | * 76   |              | -6.1  | 1.6                  |              |            |           |       | 1009   | * 55        |              | 7.4   | 1.7                  |              |            |           |       |   | 1006   | * 39         |             | 9.0                  | 4.1          |            |           |       |  |
| <b>N AMERICA - CANADA</b><br><b>LA GRANDE IV UA, QUE</b><br>71823 SEP 2009 5345N 07340W OB 3 |        |              |       |                      |              |            |           |       | <b>N AMERICA - CANADA</b><br><b>MOOSONEE UA, ONT</b><br>71836 SEP 2009 5116N 08039W OB 3   |             |              |       |                      |              |            |           |       | <b>N AMERICA - CANADA</b><br><b>THE PAS A UA, MAN</b><br>71867 SEP 2009 5358N 10100W OB 3 |        |              |             |                      |              |            |           |       |  |
| 030  | 24021  | 0            | -53.0 | 31.5                 | 2            | 90         | 300       | 6     | 030  | 24017       | 0            | -54.1 | 32.5                 | 2            | 75         | 320       | 4     | 030   | 24059  | 0            | -55.6       | 31.5                 | 0            | 72         | 350       | 4     |  |
| 050  | 20745  | 0            | -55.2 | 30.6                 | 1            | 86         | 307       | 7     | 050  | 20768       | 0            | -57.1 | 31.3                 | 2            | 89         | 309       | 7     | 050   | 20820  | 0            | -57.4       | 31.2                 | 0            | 79         | 319       | 4     |  |
| 100  | 16324  | 0            | -55.0 | 30.4                 | 0            | 84         | 299       | 13    | 100  | 16385       | 0            | -57.5 | 30.0                 | 1            | 89         | 303       | 12    | 100   | 16450  | 0            | -58.7       | 29.5                 | 1            | 89         | 293       | 11    |  |
| 150  | 13726  | 0            | -53.1 | 28.6                 | 0            | 83         | 297       | 19    | 150  | 13821       | 0            | -56.3 | 26.6                 | 1            | 84         | 299       | 18    | 150   | 13904  | 0            | -57.7       | 24.6                 | 1            | 80         | 285       | 14    |  |
| 200  | 11875  | 0            | -53.5 | 20.8                 | 1            | 79         | 299       | 23    | 200  | 11983       | 0            | -55.3 | 16.7                 | 2            | 79         | 301       | 21    | 200   | 12075  | 0            | -54.9       | 16.1                 | 1            | 67         | 289       | 15    |  |
| 300  | 9232   | 0            | -44.0 | 10.4                 | 0            | 70         | 302       | 21    | 300  | 9341        | 0            | -42.0 | 11.1                 | 1            | 76         | 304       | 20    | 300   | 9417   | 0            | -40.3       | 12.4                 | 0            | 63         | 278       | 14    |  |
| 500  | 5605   | 0            | -17.6 | 12.6                 | 0            | 73         | 298       | 14    | 500  | 5678        | 0            | -14.9 | 13.7                 | 2            | 79         | 307       | 15    | 500   | 5728   | 0            | -13.3       | 11.2                 | 1            | 74         | 270       | 12    |  |
| 700  | 3010   | 0            | -2.9  | 13.8                 | 0            | 72         | 293       | 10    | 700  | 3053        | 0            | .3    | 13.0                 | 1            | 70         | 312       | 9     | 700   | 3082   | 0            | 2.9         | 14.2                 | 0            | 68         | 268       | 9     |  |
| 850  | 1450   | 0            | 3.6   | 8.2                  | 0            | 60         | 279       | 7     | 850  | 1475        | 0            | 6.7   | 7.8                  | 1            | 59         | 297       | 7     | 850   | 1484   | 0            | 11.1        | 8.7                  | 0            | 55         | 253       | 6     |  |
| 978  | * 302  |              | 7.1   | 1.4                  |              |            |           |       | 1016   | * 11        |              | 9.6   | .9                   |              |            |           |       |   | 982    | * 274        |             | 11.5                 | 2.1          |            |           |       |  |
| <b>N AMERICA - CANADA</b><br><b>KUJJUAQ A, UA, QUE</b><br>71906 SEP 2009 5807N 06825W OB 3   |        |              |       |                      |              |            |           |       | <b>N AMERICA - CANADA</b><br><b>INUKJUAQ A UA, QUE</b><br>71907 SEP 2009 5828N 07805W OB 3 |             |              |       |                      |              |            |           |       | <b>N AMERICA - CANADA</b><br><b>IQUALUIT UA, NU</b><br>71909 SEP 2009 6345N 06833W OB 3   |        |              |             |                      |              |            |           |       |  |
| 030  | 23991  | 0            | -53.7 | 32.0                 | 4            | 92         | 291       | 7     | 030  | 23992       | 0            | -54.2 | 32.2                 | 1            | 91         | 310       | 7     | 030   | 23915  | 0            | -53.1       | 32.6                 | 4            | 88         | 292       | 6     |  |
| 050  | 20711  | 0            | -54.1 | 32.1                 | 5            | 88         | 302       | 8     | 050  | 20723       | 0            | -54.8 | 32.2                 | 2            | 87         | 314       | 8     | 050   | 20624  | 0            | -52.6       | 32.7                 | 4            | 86         | 300       | 8     |  |
| 100  | 16242  | 0            | -51.7 | 32.1                 | 4            | 87         | 300       | 13    | 100  | 16272       | 0            | -53.3 | 32.5                 | 0            | 88         | 305       | 14    | 100   | 16124  | 0            | -49.9       | 33.4                 | 4            | 85         | 302       | 11    |  |
| 150  | 13608  | 0            | -50.4 | 32.3                 | 4            | 85         | 297       | 19    | 150  | 13653       | 0            | -51.8 | 31.2                 | 1            | 85         | 304       | 20    | 150   | 13461  | 0            | -48.1       | 33.4                 | 3            | 84         | 301       | 15    |  |
| 200  | 11721  | 0            | -50.3 | 26.8                 | 5            | 79         | 298       | 23    | 200  | 11786       | 0            | -52.3 | 24.0                 | 1            | 80         | 303       | 23    | 200   | 11563  | 0            | -48.0       | 31.4                 | 2            | 81         | 305       | 18    |  |
| 300  | 9079   | 0            | -46.1 | 10.3                 | 6            | 74         | 302       | 24    | 300  | 9143        | 0            | -45.5 | 10.0                 | 0            | 74         | 298       | 21    | 300   | 8901   | 0            | -48.3       | 11.1                 | 4            | 75         | 309       | 22    |  |
| 500  | 5492   | 0            | -21.0 | 11.5                 | 9            | 82         | 300       | 19    | 500  | 5542        | 0            | -19.5 | 13.6                 | 0            | 78         | 297       | 15    | 500   | 5375   | 0            | -25.4       | 12.6                 | 2            | 79         | 309       | 15    |  |
| 700  | 2933   | 0            | -6.7  | 12.7                 | 9            | 81         | 303       | 12    | 700  | 2965        | 0            | -4.6  | 13.0                 | 0            | 70         | 297       | 10    | 700   | 2861   | 0            | -11.6       | 7.7                  | 1            | 78         | 313       | 9     |  |
| 850  | 1398   | 0            | -1.0  | 1.6                  |              | 81         | 298       | 10    | 850  | 1417        | 0            | 1.8   | 10.9                 | 0            | 56         | 297       | 7     | 850   | 1353   | 0            | -5.5        | 4.0                  | 1            | 53         | 317       | 5     |  |
| 1007   | * 65   |              | 4.8   | 2.7                  |              |            |           |       | 1009   | * 28        |              | 4.9   | 3.2                  |              |            |           |       |   | 1004   | * 22         |             | 1.6                  | 2.9          |            |           |       |  |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL   |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |  | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE   |        |              | VECTOR WIND |                      |              |            |           |       |  |
|---|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|--|
| PRESSURE  | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |  |
| hPa   | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o         | mps   |  |
| <b>N AMERICA - CANADA</b><br><b>CHURCHILL A UA, MAN</b><br>71913 SEP 2009 5844N 09404W OB 3 |        |              |       |                      |              |            |           |       | <b>N AMERICA - CANADA</b><br><b>CORAL HARBOUR A UA, NU</b><br>71915 SEP 2009 6412N 08322W OB 3 |             |              |       |                      |              |            |           |       | <b>N AMERICA - CANADA</b><br><b>EUREKA UA, NU</b><br>71917 SEP 2009 7959N 08556W OB 3     |        |              |             |                      |              |            |           |       |  |
| 030   | 24030  | 0            | -55.7 | 31.7                 | 2            | 83         | 325       | 5     | 030  | 23953       | 0            | -54.5 | 31.9                 | 4            | 83         | 304       | 7     | 030   | 23790  | 0            | -52.5       | 32.5                 | 1            | 81         | 301       | 5     |  |
| 050   | 20777  | 0            | -55.6 | 31.8                 | 1            | 88         | 319       | 8     | 050  | 20678       | 0            | -53.6 | 32.0                 | 4            | 88         | 306       | 10    | 050   | 20489  | 0            | -51.6       | 32.5                 | 0            | 79         | 299       | 5     |  |
| 100   | 16351  | 0            | -55.1 | 31.2                 | 1            | 94         | 302       | 15    | 100  | 16196       | 0            | -50.7 | 32.8                 | 2            | 90         | 305       | 15    | 100   | 15957  | 0            | -48.4       | 33.1                 | 0            | 87         | 306       | 6     |  |
| 150   | 13760  | 0            | -54.1 | 28.5                 | 1            | 89         | 297       | 22    | 150  | 13547       | 0            | -49.3 | 32.6                 | 2            | 91         | 303       | 19    | 150   | 13279  | 0            | -46.8       | 33.3                 | 0            | 70         | 314       | 5     |  |
| 200   | 11909  | 0            | -54.8 | 17.6                 | 1            | 84         | 298       | 26    | 200  | 11663       | 0            | -50.0 | 27.0                 | 2            | 88         | 301       | 24    | 200   | 11369  | 0            | -46.4       | 32.4                 | 0            | 67         | 317       | 6     |  |
| 300   | 9270   | 0            | -42.5 | 9.9                  | 0            | 81         | 297       | 24    | 300  | 9021        | 0            | -46.8 | 10.9                 | 4            | 81         | 302       | 24    | 300   | 8717   | 0            | -52.1       | 9.3                  | 0            | 39         | 337       | 6     |  |
| 500   | 5624   | 0            | -16.4 | 12.8                 | 0            | 81         | 293       | 16    | 500  | 5460        | 0            | -22.1 | 12.2                 | 1            | 80         | 308       | 16    | 500   | 5271   | 0            | -31.3       | 6.0                  | 0            | 38         | 350       | 5     |  |
| 700   | 3017   | 0            | -1.8  | 12.9                 | 0            | 74         | 292       | 10    | 700  | 2908        | 0            | -7.8  | 12.7                 | 1            | 75         | 312       | 10    | 700   | 2809   | 0            | -16.3       | 3.0                  | 0            | 39         | 340       | 3     |  |
| 850   | 1452   | 0            | 5.1   | 8.7                  | 0            | 55         | 294       | 6     | 850  | 1383        | 0            | -2.2  | 8.5                  | 1            | 53         | 321       | 6     | 850   | 1328   | 0            | -9.5        | 2.4                  | 0            | 31         | 335       | 2     |  |
| 1011  | * 29   |              | 7.1   | 1.2                  |              |            |           |       | 1003   | * 57        |              | .7    | 1.8                  |              |            |           |       |   | 1007   | * 10         |             | -5.3                 | 3.0          |            |           |       |  |
| <b>N AMERICA - CANADA</b><br><b>RESOLUTE UA, NU</b><br>71924 SEP 2009 7442N 09458W OB 3     |        |              |       |                      |              |            |           |       | <b>N AMERICA - CANADA</b><br><b>CAMBRIDGE BAY UA, NU</b><br>71925 SEP 2009 6908N 10500W OB 3   |             |              |       |                      |              |            |           |       | <b>N AMERICA - CANADA</b><br><b>BAKER LAKE UA, NU</b><br>71926 SEP 2009 6419N 09600W OB 3 |        |              |             |                      |              |            |           |       |  |
| 030   | 23851  | 0            | -53.5 | 31.4                 | 3            | 87         | 296       | 8     | 030  | 23950       | 0            | -54.0 | 32.2                 | 2            | 91         | 295       | 10    | 030   | 23994  | 0            | -54.7       | 32.0                 | 3            | 78         | 308       | 7     |  |
| 050   | 20550  | 0            | -51.9 | 32.1                 | 2            | 93         | 300       | 10    | 050  | 20666       | 0            | -52.9 | 32.4                 | 2            | 93         | 286       | 12    | 050   | 20721  | 0            | -53.9       | 32.3                 | 4            | 91         | 307       | 10    |  |
| 100   | 16027  | 0            | -48.5 | 33.5                 | 2            | 96         | 298       | 11    | 100  | 16165       | 0            | -50.4 | 33.0                 | 1            | 95         | 282       | 15    | 100   | 16249  | 0            | -51.6       | 32.5                 | 3            | 95         | 299       | 16    |  |
| 150   | 13354  | 0            | -47.2 | 33.9                 | 3            | 96         | 295       | 13    | 150  | 13514       | 0            | -49.5 | 32.2                 | 1            | 95         | 282       | 19    | 150   | 13617  | 0            | -50.9       | 31.0                 | 2            | 93         | 297       | 21    |  |
| 200   | 11449  | 0            | -47.4 | 32.1                 | 3            | 93         | 297       | 15    | 200  | 11632       | 0            | -50.6 | 27.2                 | 2            | 94         | 282       | 22    | 200   | 11747  | 0            | -51.8       | 24.7                 | 4            | 90         | 296       | 26    |  |
| 300   | 8810   | 0            | -51.3 | 8.7                  | 1            | 83         | 298       | 18    | 300  | 8992        | 0            | -48.1 | 8.9                  | 0            | 86         | 281       | 23    | 300   | 9109   | 0            | -46.0       | 9.6                  | 4            | 88         | 295       | 26    |  |
| 500   | 5330   | 0            | -28.7 | 8.2                  | 1            | 78         | 303       | 12    | 500  | 5442        | 0            | -23.5 | 11.8                 | 0            | 82         | 284       | 13    | 500   | 5520   | 0            | -20.6       | 10.1                 | 3            | 86         | 303       | 16    |  |
| 700   | 2845   | 0            | -13.7 | 7.7                  | 1            | 69         | 317       | 7     | 700  | 2906        | 0            | -8.7  | 9.3                  | 0            | 71         | 290       | 7     | 700   | 2950   | 0            | -5.5        | 10.9                 | 3            | 78         | 309       | 11    |  |
| 850   | 1351   | 0            | -7.5  | 5.1                  | 1            | 63         | 310       | 6     | 850  | 1384        | 0            | -2.7  | 4.4                  | 0            | 29         | 287       | 3     | 850   | 1408   | 0            | .1          | 6.6                  | 2            | 55         | 300       | 6     |  |
| 1002  | * 46   |              | -3.7  | 1.4                  |              |            |           |       | 1008   | * 25        |              | .8    | 1.1                  |              |            |           |       |   | 1010   | * 51         |             | 3.7                  | 1.2          |            |           |       |  |
| <b>N AMERICA - CANADA</b><br><b>FORT SMITH UA,</b><br>71934 SEP 2009 6001N 11150W OB 3      |        |              |       |                      |              |            |           |       | <b>N AMERICA - CANADA</b><br><b>FORT NELSON UA, BC</b><br>71945 SEP 2009 5850N 12230W OB 3     |             |              |       |                      |              |            |           |       | <b>N AMERICA - CANADA</b><br><b>INUVIK UA, NWT</b><br>71957 SEP 2009 6819N 13330W OB 3    |        |              |             |                      |              |            |           |       |  |
| 030   | 24055  | 0            | -54.9 | 31.5                 | 2            | 74         | 310       | 4     | 030  | 24064       | 0            | -54.5 | 32.1                 | 2            | 73         | 270       | 4     | 030   | 23979  | 0            | -52.7       | 32.8                 | 1            | 95         | 259       | 9     |  |
| 050   | 20794  | 0            | -55.0 | 31.3                 | 0            | 87         | 289       | 7     | 050  | 20797       | 0            | -54.7 | 32.1                 | 2            | 87         | 263       | 6     | 050   | 20678  | 0            | -51.9       | 33.1                 | 1            | 95         | 251       | 11    |  |
| 100   | 16359  | 0            | -54.3 | 30.5                 | 0            | 94         | 269       | 14    | 100  | 16346       | 0            | -53.5 | 32.0                 | 2            | 90         | 243       | 12    | 100   | 16170  | 0            | -50.1       | 33.3                 | 1            | 94         | 243       | 13    |  |
| 150   | 13758  | 0            | -54.2 | 27.2                 | 0            | 89         | 264       | 21    | 150  | 13740       | 0            | -53.2 | 28.9                 | 1            | 87         | 240       | 20    | 150   | 13518  | 0            | -49.5       | 33.2                 | 1            | 95         | 243       | 14    |  |
| 200   | 11911  | 0            | -54.8 | 15.5                 | 1            | 83         | 264       | 25    | 200  | 11888       | 0            | -53.5 | 19.4                 | 1            | 80         | 239       | 25    | 200   | 11636  | 0            | -51.1       | 25.3                 | 1            | 91         | 245       | 16    |  |
| 300   | 9270   | 0            | -42.3 | 9.2                  | 0            | 78         | 262       | 23    | 300  | 9235        | 0            | -42.7 | 10.9                 | 2            | 74         | 230       | 22    | 300   | 9017   | 0            | -48.4       | 8.3                  | 1            | 78         | 252       | 15    |  |
| 500   | 5619   | 0            | -16.1 | 9.3                  | 1            | 76         | 258       | 13    | 500  | 5604        | 0            | -17.8 | 9.2                  | 1            | 74         | 237       | 13    | 500   | 5465   | 0            | -22.9       | 8.2                  | 0            | 78         | 257       | 9     |  |
| 700   | 3004   | 0            | -.7   | 10.6                 | 0            | 70         | 261       | 8     | 700  | 3004        | 0            | -2.0  | 6.6                  | 1            | 60         | 260       | 6     | 700   | 2922   | 0            | -8.2        | 4.4                  | 0            | 58         | 257       | 5     |  |
| 850   | 1429   | 0            | 7.7   | 7.5                  | 0            | 46         | 250       | 4     | 850  | 1431        | 0            | 7.9   | 6.5                  | 1            | 27         | 280       | 2     | 850   | 1390   | 0            | .1          | 4.3                  | 0            | 21         | 266       | 2     |  |
| 985   | * 204  |              | 8.9   | 1.8                  |              |            |           |       | 964  | * 382       |              | 7.8   | 1.7                  |              |            |           |       |   | 1001   | * 103        |             | 2.5                  | 1.7          |            |           |       |  |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL   |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |  | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE  |        |              | VECTOR WIND |                      |              |            |           |       |
|---|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|
| PRESSURE  | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |
| hPa   | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm    |              | °C          | °C                   |              | %          | o         | mps   |
| <b>N AMERICA - CANADA</b><br>WHITEHORSE, UA, YT<br>71964 SEP 2009 6044N 13500W OB 3                         |        |              |       |                      |              |            |           |       | <b>N AMERICA - BERMUDA</b><br>BERMUDA INTERNATIONAL AIRPOR<br>78016 SEP 2009 3222N 06440W OB 3     |             |              |       |                      |              |            |           |       | <b>N AMERICA - JAMAICA</b><br>KINGSTON/NORMAN MANLEY<br>78397 SEP 2009 1756N 07647W OB 3 |        |              |             |                      |              |            |           |       |
| 030   | 24028  | 0            | -52.7 | 32.6                 | 1            | 74         | 254       | 5     | 030  | 24075       | 0            | -53.7 | 25.4                 | 7            | 94         | 89        | 8     | 030  | 23960  | 0            | -55.5       | 11.5                 | 4            | 99         | 91        | 21    |
| 050   | 20733  | 0            | -52.7 | 32.8                 | 2            | 85         | 237       | 7     | 050  | 20836       | 0            | -58.9 | 19.8                 | 4            | 82         | 89        | 5     | 050  | 20763  | 0            | -63.5       | 8.8                  | 5            | 98         | 90        | 14    |
| 100   | 16239  | 0            | -50.8 | 33.3                 | 3            | 86         | 228       | 12    | 100  | 16582       | 0            | -67.9 | 10.1                 | 4            | 67         | 299       | 4     | 100  | 16623  | 0            | -73.8       | 7.4                  | 4            | 46         | 34        | 3     |
| 150   | 13597  | 0            | -50.1 | 32.7                 | 1            | 81         | 224       | 13    | 150  | 14153       | 0            | -66.9 | 7.6                  | 4            | 60         | 312       | 8     | 150  | 14228  | 0            | -66.3       | 8.1                  | 3            | 52         | 350       | 7     |
| 200   | 11718  | 0            | -50.4 | 28.4                 | 1            | 79         | 221       | 16    | 200  | 12381       | 0            | -56.6 | 8.6                  | 4            | 42         | 294       | 6     | 200  | 12433  | 0            | -53.2       | 9.9                  | 3            | 50         | 13        | 6     |
| 300   | 9071   | 0            | -46.2 | 9.7                  | 2            | 77         | 211       | 16    | 300  | 9681        | 0            | -34.2 | 12.2                 | 4            | 45         | 261       | 5     | 300  | 9693   | 0            | -31.4       | 11.4                 | 5            | 55         | 29        | 5     |
| 500   | 5503   | 0            | -22.3 | 9.1                  | 1            | 73         | 204       | 9     | 500  | 5900        | 0            | -7.6  | 15.0                 | 5            | 41         | 231       | 3     | 500  | 5881   | 0            | -6.4        | 9.9                  | 3            | 49         | 68        | 3     |
| 700   | 2947   | 0            | -6.3  | 6.2                  | 1            | 71         | 211       | 7     | 700  | 3205        | 0            | 8.0   | 11.6                 | 4            | 46         | 219       | 3     | 700  | 3174   | 0            | 9.9         | 10.5                 | 3            | 86         | 111       | 4     |
| 850   | 1403   | 0            | 2.4   | 4.8                  | 1            | 70         | 164       | 6     | 850  | 1577        | 0            | 15.8  | 4.6                  | 4            | 45         | 215       | 3     | 850  | 1531   | 0            | 18.7        | 5.9                  | 3            | 98         | 104       | 8     |
| 926   | * 707  |              | 4.5   | 2.6                  |              |            |           |       | 1016   | * 130       |              | 26.2  | 4.3                  |              |            |           |       | 1012   | * 14   |              | 26.6        | 6.1                  |              |            |           |       |
| <b>N AMERICA - NETHERLANDS ANTILLES &amp; ARUBA</b><br>JULIANA AIRPORT,<br>78866 SEP 2009 1802N 06307W OB 2 |        |              |       |                      |              |            |           |       | <b>N AMERICA - TRINIDAD AND TOBAGO</b><br>PIARCO INT. AIRPORT,<br>78970 SEP 2009 1037N 06121W OB 2 |             |              |       |                      |              |            |           |       | <b>S AMERICA - CHILE</b><br>ANTOFAGASTA<br>85442 SEP 2009 2326S 07027W OB 2              |        |              |             |                      |              |            |           |       |
| 030   | 24159  | 0            | -55.2 |                      | 9            | 99         | 89        | 17    | 030  | 23941       | 0            | -55.0 |                      | 4            | 99         | 90        | 26    | 030  |        |              |             |                      |              |            |           |       |
| 050   | 20792  | 0            | -63.0 |                      | 3            | 99         | 88        | 12    | 050  | 20758       | 0            | -65.2 |                      | 5            | 99         | 90        | 12    | 050  | 20709  | 0            | -60.3       | 27.3                 | 2            | 49         | 103       | 4     |
| 100   | 16616  | 0            | -71.4 |                      | 2            | 49         | 257       | 3     | 100  | 16607       | 0            | -76.3 |                      | 3            | 37         | 70        | 2     | 100  | 16530  | 0            | -68.9       | 15.9                 | 0            | 95         | 282       | 19    |
| 150   | 14216  | 0            | -65.5 |                      | 1            | 81         | 261       | 10    | 150  | 14235       | 0            | -66.4 |                      | 3            | 82         | 65        | 8     | 150  | 14067  | 0            | -61.9       | 21.1                 | 0            | 96         | 275       | 39    |
| 200   | 12421  | 0            | -53.8 | 8.6                  | 0            | 74         | 258       | 9     | 200  | 12442       | 0            | -53.5 | 12.8                 | 3            | 90         | 70        | 13    | 200  | 12257  | 0            | -53.8       | 20.2                 | 0            | 95         | 279       | 43    |
| 300   | 9694   | 0            | -32.6 | 10.0                 | 0            | 60         | 239       | 4     | 300  | 9709        | 0            | -31.6 | 21.4                 | 2            | 89         | 100       | 6     | 300  | 9557   | 0            | -36.2       | 20.5                 | 0            | 94         | 278       | 37    |
| 500   | 5897   | 0            | -6.7  | 10.3                 | 0            | 37         | 159       | 2     | 500  | 5899        | 0            | -5.5  | 14.6                 | 1            | 65         | 90        | 4     | 500  | 5818   | 0            | -9.8        | 32.0                 | 0            | 91         | 280       | 18    |
| 700   | 3184   | 0            | 10.1  | 5.4                  | 0            | 79         | 100       | 4     | 700  | 3180        | 0            | 9.8   | 9.1                  | 0            | 50         | 65        | 4     | 700  | 3133   | 0            | 8.7         | 10.2                 | 0            | 77         | 313       | 6     |
| 850   | 1545   | 0            | 17.7  | 4.2                  | 0            | 92         | 100       | 5     | 850  | 1539        | 0            | 18.6  | 5.8                  | 0            | 82         | 130       | 4     | 850  | 1504   | 0            | 17.3        | 6.0                  | 0            | 43         | 71        | 2     |
| 1014  | * 4    |              | 27.3  | 4.4                  |              |            |           |       | 1012   | * 15        |              | 28.2  | 27.7                 |              |            |           |       | 1003   | * 140  |              | 12.7        | 4.2                  |              |            |           |       |
| <b>S AMERICA - CHILE</b><br>ISLA DE PASCUA<br>85469 SEP 2009 2710S 10920W OB 1                              |        |              |       |                      |              |            |           |       | <b>S AMERICA - CHILE</b><br>SANTO DOMINGO<br>85586 SEP 2009 3339S 07137W OB                        |             |              |       |                      |              |            |           |       | <b>S AMERICA - CHILE</b><br>PUERTO MONTT<br>85799 SEP 2009 4126S 07306W OB 2             |        |              |             |                      |              |            |           |       |
| 030   |        |              |       |                      |              |            |           |       | 030  |             |              |       |                      |              |            |           |       | 030  |        |              |             |                      |              |            |           |       |
| 050   |        |              |       |                      |              |            |           |       | 050  |             |              |       |                      |              |            |           |       | 050  | 20528  | 0            | -58.2       | 26.5                 | 3            | 95         | 273       | 25    |
| 100   | 16446  | 0            | -66.8 |                      | 2            | 88         | 268       | 16    | 100  | 16343       | 0            | -58.7 | 29.6                 | 3            | 91         | 280       | 19    | 100  | 16144  | 0            | -56.5       | 26.6                 | 0            | 96         | 269       | 25    |
| 150   | 13966  | 0            | -61.1 | 22.9                 | 1            | 84         | 267       | 26    | 150  | 13768       | 0            | -54.2 | 30.1                 | 1            | 97         | 272       | 30    | 150  | 13562  | 0            | -54.5       | 26.6                 | 0            | 93         | 265       | 23    |
| 200   | 12158  | 0            | -57.0 | 15.0                 | 0            | 83         | 273       | 28    | 200  | 11910       | 0            | -52.2 | 27.2                 | 1            | 93         | 271       | 34    | 200  | 11722  | 0            | -56.4       | 21.6                 | 0            | 76         | 258       | 20    |
| 300   | 9503   | 0            | -39.6 | 10.9                 | 0            | 78         | 277       | 20    | 300  | 9262        | 0            | -44.4 | 21.9                 | 1            | 79         | 266       | 25    | 300  | 9126   | 0            | -48.7       | 16.4                 | 0            | 61         | 251       | 15    |
| 500   | 5804   | 0            | -12.4 | 17.5                 | 0            | 67         | 290       | 10    | 500  | 5665        | 0            | -19.8 | 25.4                 | 0            | 72         | 276       | 12    | 500  | 5587   | 0            | -23.8       | 16.3                 | 1            | 51         | 245       | 9     |
| 700   | 3149   | 0            | 3.4   | 11.9                 | 0            | 57         | 326       | 6     | 700  | 3081        | 0            | -2.0  | 25.3                 | 0            | 54         | 312       | 4     | 700  | 3045   | 0            | -6.9        | 16.6                 | 1            | 55         | 236       | 6     |
| 850   | 1550   | 0            | 10.2  | 4.9                  | 0            | 56         | 355       | 5     | 850  | 1512        | 0            | 6.5   | 16.6                 | 0            | 36         | 183       | 2     | 850  | 1509   | 0            | .0          | 9.5                  | 2            | 30         | 247       | 2     |
| 1015  | * 69   |              | 20.2  | 3.7                  |              |            |           |       | 1012   | * 75        |              | 7.3   | 1.7                  |              |            |           |       | 1012   | * 90   |              | 4.0         | .3                   |              |            |           |       |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           |       | LEVEL   |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           |       | LEVEL   |        | TEMPERATURE  |      |                      | VECTOR WIND  |            |           |       |     |    |
|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|------|----------------------|--------------|------------|-----------|-------|-----|----|
| PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |     |    |
| hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C   | °C                   |              | %          | o         | mps   |     |    |
| <b>S AMERICA - CHILE</b><br><b>PUNTA ARENAS</b><br>85934 SEP 2009 5300S 07051W OB 2                |        |              |       |                      |              |            |           |       | <b>S AMERICA - ARGENTINA</b><br><b>RESISTENCIA AERO</b><br>87155 SEP 2009 2727S 05903W OB 2           |        |              |       |                      |              |            |           |       | <b>S AMERICA - ARGENTINA</b><br><b>EZEIZA AERO</b><br>87576 SEP 2009 3449S 05832W OB 3        |        |              |      |                      |              |            |           |       |     |    |
| 030  |        |              |       |                      |              |            |           |       | 030   | 23893  | 0            | -57.0 |                      |              | 6          | 31        | 45    | 4   | 030    | 23859        | 0    | -57.6                |              |            | 7         | 61    | 280 | 14 |
| 050  | 19913  | 0            | -62.9 | 21.8                 | 4            | 93         | 269       | 49    | 050   | 20686  | 0            | -61.0 |                      |              | 2          | 17        | 45    | 2   | 050    | 20641        | 0    | -58.9                |              |            | 2         | 88    | 275 | 12 |
| 100  | 15637  | 0            | -62.1 | 21.0                 | 0            | 94         | 266       | 40    | 100   | 16475  | 0            | -68.0 |                      |              | 1          | 32        | 320   | 3   | 100    | 16324        | 0    | -60.1                |              |            | 0         | 97    | 280 | 25 |
| 150  | 13144  | 0            | -61.6 | 19.5                 | 0            | 91         | 269       | 32    | 150   | 14004  | 0            | -61.0 |                      |              | 1          | 96        | 280   | 22  | 150    | 13772        | 0    | -55.9                |              |            | 0         | 98    | 280 | 35 |
| 200  | 11356  | 0            | -63.4 | 19.2                 | 0            | 84         | 269       | 28    | 200   | 12190  | 0            | -54.1 | 28.5                 |              | 1          | 98        | 280   | 38  | 200    | 11928        | 0    | -52.6                |              |            | 0         | 96    | 285 | 37 |
| 300  | 8823   | 0            | -53.5 | 12.3                 | 0            | 80         | 271       | 25    | 300   | 9502   | 0            | -38.0 | 14.5                 |              | 1          | 95        | 280   | 36  | 300    | 9279         | 0    | -43.8                | 19.3         |            | 0         | 86    | 285 | 31 |
| 500  | 5358   | 0            | -28.4 | 8.6                  | 0            | 85         | 268       | 20    | 500   | 5790   | 0            | -10.9 | 19.3                 |              | 1          | 94        | 285   | 20  | 500    | 5663         | 0    | -18.1                | 13.2         |            | 0         | 88    | 275 | 19 |
| 700  | 2862   | 0            | -12.1 | 7.9                  | 0            | 88         | 264       | 16    | 700   | 3052   | 0            | 4.8   | 15.1                 |              | 1          | 74        | 300   | 8   | 700    | 3068         | 0    | -2.0                 | 20.5         |            | 0         | 59    | 255 | 10 |
| 850  | 1351   | 0            | -3.1  | 4.3                  | 0            | 85         | 267       | 14    | 850   | 1513   | 0            | 11.7  | 12.0                 |              | 1          | 16        | 245   | 2   | 850    | 1507         | 0    | 3.9                  | 12.3         |            | 0         | 44    | 165 | 7  |
| 1001   | * 43   |              | 3.4   | 3.2                  |              |            |           |       | 1011  | * 53   |              | 15.5  | 4.3                  |              |            |           |       |   | 1018   | * 20         |      | 10.6                 | 2.4          |            |           |       |     |    |
| <b>S AMERICA - ARGENTINA</b><br><b>COMODORO RIVADAVIA AERO</b><br>87860 SEP 2009 4547S 06730W OB 2 |        |              |       |                      |              |            |           |       | <b>S AMERICA - ISLANDS</b><br><b>MOUNT PLEASANT AIRPORT</b><br>88889 SEP 2009 5149S 05827W OB         |        |              |       |                      |              |            |           |       | <b>ANTARCTICA - AUSTRALIA (ANTARCTIC)</b><br><b>DAVIS</b><br>89571 SEP 2009 6835S 07758E OB 3 |        |              |      |                      |              |            |           |       |     |    |
| 030  | 23615  | 0            | -58.9 |                      | 2            | 92         | 273       | 40    | 030   | 23109  | 0            | -62.3 | 26.9                 |              | 5          | 96        | 271   | 58  | 030    | 21771        | 0    | -70.1                | 19.7         |            | 4         | 95    | 272 | 53 |
| 050  | 20343  | 0            | -59.2 |                      | 0            | 95         | 271       | 36    | 050   | 19990  | 0            | -61.6 | 26.8                 |              | 1          | 95        | 271   | 49  | 050    | 18779        | 0    | -75.7                | 15.4         |            | 2         | 96    | 274 | 38 |
| 100  | 15976  | 0            | -57.0 |                      | 0            | 97         | 270       | 30    | 100   | 15691  | 0            | -61.5 | 25.7                 |              | 1          | 95        | 269   | 39  | 100    | 14780        | 0    | -75.8                | 13.2         |            | 2         | 95    | 277 | 22 |
| 150  | 13409  | 0            | -56.4 |                      | 0            | 92         | 268       | 26    | 150   | 13172  | 0            | -60.7 | 23.5                 |              | 1          | 93        | 271   | 31  | 150    | 12427        | 0    | -73.6                | 12.1         |            | 2         | 88    | 279 | 14 |
| 200  | 11594  | 0            | -59.8 |                      | 0            | 79         | 263       | 21    | 200   | 11389  | 0            | -62.1 | 17.2                 |              | 1          | 84        | 268   | 26  | 200    | 10739        | 0    | -71.7                | 10.5         |            | 2         | 70    | 278 | 11 |
| 300  | 9027   | 0            | -50.5 | 16.1                 | 0            | 69         | 256       | 17    | 300   | 8852   | 0            | -53.9 | 10.2                 |              | 1          | 81        | 269   | 23  | 300    | 8296         | 0    | -61.2                | 9.1          |            | 2         | 39    | 293 | 5  |
| 500  | 5515   | 0            | -25.5 | 15.7                 | 0            | 72         | 260       | 12    | 500   | 5389   | 0            | -28.0 | 10.7                 |              | 0          | 84        | 266   | 17  | 500    | 4956         | 0    | -37.8                | 11.5         |            | 1         | 27    | 341 | 3  |
| 700  | 2989   | 0            | -8.5  | 15.9                 | 0            | 82         | 250       | 11    | 700   | 2891   | 0            | -11.5 | 12.9                 |              | 0          | 84        | 263   | 13  | 700    | 2565         | 0    | -23.1                | 9.1          |            | 1         | 49    | 54  | 4  |
| 850  | 1458   | 0            | .4    | 10.8                 | 0            | 91         | 277       | 9     | 850   | 1376   | 0            | -2.7  | 8.2                  |              | 0          | 80        | 269   | 11  | 850    | 1130         | 0    | -18.6                | 4.6          |            | 1         | 91    | 46  | 10 |
| 1011   | * 58   |              | 7.9   | 11.1                 |              |            |           |       | 999   | * 74   |              | 3.4   | 2.7                  |              |            |           |       |   | 985    | * 23         |      | -14.4                | 5.8          |            |           |       |     |    |
| <b>ANTARCTICA - AUSTRALIA (ANTARCTIC)</b><br><b>CASEY</b><br>89611 SEP 2009 6617S 11030E OB 3      |        |              |       |                      |              |            |           |       | <b>ANTARCTICA - FRANCE (ANTARCTIC)</b><br><b>DUMONT D'URVILLE</b><br>89642 SEP 2009 6639S 14000E OB 1 |        |              |       |                      |              |            |           |       | <b>ANTARCTICA - JAPAN (ANTARCTIC)</b><br><b>SYOWA</b><br>89532 SEP 2009 6900S 03935E OB 1     |        |              |      |                      |              |            |           |       |     |    |
| 030  | 22082  | 0            | -64.8 | 19.8                 | 1            | 95         | 275       | 58    | 030   |        |              |       |                      |              |            |           |       |   | 030    | 21558        | 0    | -74.4                | 20.4         |            | 1         | 96    | 280 | 43 |
| 050  | 19017  | 0            | -69.8 | 18.0                 | 0            | 95         | 277       | 43    | 050   | 19150  | 0            | -68.5 | 19.3                 |              | 7          | 98        | 276   | 51  | 050    | 18618        | 0    | -78.6                | 17.0         |            | 0         | 96    | 279 | 31 |
| 100  | 14926  | 0            | -72.2 | 15.7                 | 0            | 93         | 281       | 24    | 100   | 15041  | 0            | -71.9 | 16.0                 |              | 3          | 95        | 282   | 29  | 100    | 14671        | 0    | -78.1                | 13.3         |            | 0         | 93    | 280 | 18 |
| 150  | 12535  | 0            | -71.3 | 14.5                 | 0            | 85         | 291       | 16    | 150   | 12650  | 0            | -71.3 | 14.5                 |              | 3          | 90        | 285   | 22  | 150    | 12339        | 0    | -75.0                | 12.5         |            | 0         | 85    | 281 | 13 |
| 200  | 10827  | 0            | -69.2 | 12.5                 | 0            | 68         | 307       | 11    | 200   | 10951  | 0            | -69.8 | 11.9                 |              | 1          | 74        | 290   | 18  | 200    | 10661        | 0    | -72.5                | 10.3         |            | 0         | 70    | 285 | 10 |
| 300  | 8365   | 0            | -60.0 | 7.8                  | 0            | 41         | 329       | 7     | 300   | 8482   | 0            | -58.9 | 8.9                  |              | 0          | 61        | 295   | 14  | 300    | 8226         | 0    | -62.0                | 7.9          |            | 0         | 43    | 305 | 7  |
| 500  | 4998   | 0            | -36.2 | 8.0                  | 0            | 40         | 11        | 5     | 500   | 5095   | 0            | -33.8 | 15.8                 |              | 0          | 57        | 291   | 9   | 500    | 4907         | 0    | -39.8                | 3.5          |            | 0         | 29    | 349 | 3  |
| 700  | 2586   | 0            | -20.6 | 5.8                  | 0            | 43         | 54        | 4     | 700   | 2657   | 0            | -18.4 | 13.0                 |              | 0          | 17        | 321   | 2   | 700    | 2536         | 0    | -25.3                | 6.4          |            | 0         | 58    | 23  | 5  |
| 850  | 1128   | 0            | -13.7 | 5.5                  | 0            | 61         | 53        | 7     | 850   | 1198   | 0            | -16.8 | 16.8                 |              | 0          | 79        | 104   | 10  | 850    | 1109         | 0    | -19.2                | 4.4          |            | 0         | 82    | 44  | 9  |
| 980  | * 42   |              | -11.1 | 3.3                  |              |            |           |       | 991   | * 43   |              | -14.2 | 6.1                  |              |            |           |       |   | 983    | * 21         |      | -17.5                | 4.6          |            |           |       |     |    |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL | TEMPERATURE   |        |              | VECTOR WIND |                      |              | LEVEL      | TEMPERATURE |       |  | VECTOR WIND |              |       |                      |              |            |           |       |  |
|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-------------|-------|--|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|
| PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION   | SPEED | PRESSURE   | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |  |
| hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o           | mps   | hPa  | gpm         |              | °C    | °C                   |              | %          | o         | mps   |  |
| <b>ANTARCTICA - UNITED KINGDOM (ANTARCTIC)<br/>HALLEY</b><br>89022 SEP 2009 7535S 02639W OB 2                      |        |              |       |                      |              |            |           |       | <b>NTARCTICA - UNITED KINGDOM (ANTARCTIC)<br/>ROTHERA</b><br>89062 SEP 2009 6734S 06808W OB   |        |              |             |                      |              |            |             |       | <b>W PACIFIC - MALAYSIA (PENIN. MALAYSIA)<br/>PENANG/BAYAN LEPAS</b><br>48601 SEP 2009 0518N 10010E OB 3 |             |              |       |                      |              |            |           |       |  |
| 030  | 21313  | 0            | -81.7 | 14.4                 | 9            | 97         | 266       | 22    | 030   | 21641  | 0            | -79.4       | 15.4                 | 9            | 94         | 261         | 44    | 030  | 23910       | 0            | -35.1 |                      | 2            | 85         | 64        | 12    |  |
| 050  | 18463  | 0            | -84.7 | 11.6                 | 9            | 94         | 264       | 17    | 050   | 18758  | 0            | -81.1       | 14.5                 | 9            | 91         | 270         | 36    | 050  | 22762       | 0            | -9.6  |                      | 2            | 47         | 107       | 4     |  |
| 100  | 14589  | 0            | -82.5 | 9.6                  | 5            | 83         | 251       | 12    | 100   | 14833  | 0            | -77.5       | 13.9                 | 9            | 92         | 275         | 26    | 100  | 15770       | 0            | -72.8 | 7.8                  | 0            | 96         | 88        | 17    |  |
| 150  | 12309  | 0            | -79.2 | 9.1                  | 5            | 70         | 243       | 11    | 150   | 12492  | 0            | -73.8       | 13.7                 | 9            | 89         | 279         | 19    | 150  | 13974       | 0            | -66.9 | 6.5                  | 0            | 98         | 80        | 28    |  |
| 200  | 10664  | 0            | -76.1 | 9.3                  | 5            | 56         | 241       | 11    | 200   | 10802  | 0            | -71.2       | 11.6                 | 9            | 86         | 294         | 18    | 200  | 12209       | 0            | -52.5 | 5.3                  | 0            | 92         | 76        | 19    |  |
| 300  | 8260   | 0            | -63.0 | 10.5                 | 5            | 46         | 230       | 10    | 300   | 8364   | 0            | -61.8       | 8.1                  | 9            | 77         | 306         | 16    | 300  | 9521        | 0            | -29.5 | 4.4                  | 0            | 67         | 105       | 9     |  |
| 500  | 4941   | 0            | -39.0 | 11.9                 | 5            | 34         | 220       | 5     | 500   | 5023   | 0            | -36.5       | 6.8                  | 9            | 69         | 314         | 10    | 500  | 5584        | 0            | -5.0  | 3.6                  | 0            | 43         | 206       | 7     |  |
| 700  | 2563   | 0            | -24.5 | 11.5                 | 4            | 13         | 180       | 2     | 700   | 2608   | 0            | -19.6       | 8.6                  | 9            | 72         | 313         | 8     | 700  | 3120        | 0            | 9.8   | 4.2                  | 0            | 73         | 246       | 9     |  |
| 850  | 1132   | 0            | -19.4 | 9.1                  | 4            | 39         | 58        | 3     | 850   | 1142   | 0            | -11.3       | 4.7                  | 9            | 75         | 347         | 6     | 850  | 1485        | 0            | 18.8  | 3.7                  | 0            | 62         | 236       | 7     |  |
| 987  | * 35   |              | -28.4 | 3.1                  |              |            |           |       | 985   | * 33   |              | -7.0        | 2.7                  |              |            |             |       |  | 1009        | * 4          |       | 26.7                 | 2.6          |            |           |       |  |
| <b>SW PACIFIC - MALAYSIA (PENIN. MALAYSIA)<br/>KOTA BHARU</b><br>48615 SEP 2009 0610N 10210E OB 3                  |        |              |       |                      |              |            |           |       | <b>W PACIFIC - MALAYSIA (PENIN. MALAYSIA)<br/>KUANTAN</b><br>48657 SEP 2009 0347N 10310E OB 3 |        |              |             |                      |              |            |             |       | <b>SW PACIFIC - SINGAPORE<br/>SINGAPORE/CHANGI AIRPORT</b><br>48698 SEP 2009 0122N 10350E OB 3           |             |              |       |                      |              |            |           |       |  |
| 030  | 23843  | 0            | -59.9 | 21.4                 | 1            | 95         | 93        | 20    | 030   | 23818  | 0            | -61.2       | 21.1                 | 4            | 79         | 108         | 16    | 030  | 23811       | 0            | -61.4 | 29.6                 | 0            | 98         | 88        | 22    |  |
| 050  | 20699  | 0            | -66.0 | 14.5                 | 0            | 56         | 137       | 4     | 050   | 20679  | 0            | -65.9       | 13.8                 | 3            | 44         | 230         | 4     | 050  | 20682       | 0            | -66.2 | 25.2                 | 0            | 94         | 271       | 11    |  |
| 100  | 16606  | 0            | -77.1 | 7.9                  | 0            | 92         | 90        | 18    | 100   | 16587  | 0            | -76.8       | 7.9                  | 1            | 87         | 96          | 15    | 100  | 16587       | 0            | -76.2 | 8.5                  | 0            | 77         | 86        | 10    |  |
| 150  | 14211  | 0            | -68.2 | 6.7                  | 0            | 96         | 83        | 26    | 150   | 14192  | 0            | -68.3       | 6.3                  | 1            | 98         | 79          | 26    | 150  | 14227       | 0            | -67.7 | 7.0                  | 0            | 98         | 71        | 28    |  |
| 200  | 12425  | 0            | -53.2 | 5.8                  | 0            | 88         | 78        | 15    | 200   | 12414  | 0            | -53.5       | 5.5                  | 1            | 95         | 73          | 18    | 200  | 12437       | 0            | -53.2 | 7.1                  | 0            | 97         | 65        | 20    |  |
| 300  | 9686   | 0            | -30.0 | 5.2                  | 0            | 58         | 97        | 5     | 300   | 9681   | 0            | -30.3       | 5.1                  | 1            | 82         | 80          | 8     | 300  | 9693        | 0            | -30.7 | 7.3                  | 0            | 88         | 84        | 9     |  |
| 500  | 5849   | 0            | -4.8  | 5.7                  | 0            | 47         | 251       | 3     | 500   | 5844   | 0            | -5.0        | 4.2                  | 1            | 34         | 218         | 2     | 500  | 5864        | 0            | -5.4  | 6.7                  | 0            | 23         | 188       | 1     |  |
| 700  | 3125   | 0            | 10.1  | 9.6                  | 0            | 75         | 277       | 8     | 700   | 3121   | 0            | 9.7         | 4.0                  | 1            | 74         | 264         | 7     | 700  | 3145        | 0            | 9.6   | 5.0                  | 0            | 63         | 267       | 4     |  |
| 850  | 1486   | 0            | 19.0  | 4.1                  | 0            | 81         | 263       | 7     | 850   | 1485   | 0            | 19.0        | 3.8                  | 1            | 89         | 226         | 6     | 850  | 1503        | 0            | 18.6  | 4.4                  | 0            | 72         | 218       | 4     |  |
| 1008   | * 5    |              | 26.3  | 2.9                  |              |            |           |       | 1007  | * 16   |              | 26.1        | 2.4                  |              |            |             |       |  | 1008        | * 16         |       | 28.0                 | 4.5          |            |           |       |  |
| <b>SW PACIFIC - USA (PACIFIC OCEAN NORTH)<br/>HILO/GEN. LYMAN, HAWAII, HAW</b><br>91285 SEP 2009 1943N 15500W OB 2 |        |              |       |                      |              |            |           |       | <b>SW PACIFIC - KIRIBATI<br/>TARAWA</b><br>91610 SEP 2009 0121N 17250E OB 3                   |        |              |             |                      |              |            |             |       | <b>SW PACIFIC - TUVALU<br/>FUNAFUTI</b><br>91643 SEP 2009 0831S 17910E OB 3                              |             |              |       |                      |              |            |           |       |  |
| 030  | 23934  | 0            | -56.4 | 12.5                 | 2            | 99         | 95        | 19    | 030   | 23846  | 0            | -60.5       | 16.2                 | 9            | 99         | 93          | 22    | 030  | 23846       | 0            | -60.5 |                      | 9            | 99         | 93        | 22    |  |
| 050  | 20743  | 0            | -63.4 | 10.1                 | 1            | 99         | 94        | 13    | 050   | 20711  | 0            | -65.8       | 12.1                 | 3            | 87         | 275         | 10    | 050  | 20711       | 0            | -65.8 |                      | 3            | 87         | 275       | 10    |  |
| 100  | 16612  | 0            | -73.9 | 7.8                  | 0            | 20         | 261       | 1     | 100   | 16610  | 0            | -79.4       | 5.5                  | 2            | 22         | 161         | 2     | 100  | 16610       | 0            | -79.4 |                      | 2            | 22         | 161       | 2     |  |
| 150  | 14205  | 0            | -64.8 | 9.4                  | 0            | 75         | 272       | 9     | 150   | 14263  | 0            | -67.3       | 6.2                  | 3            | 41         | 280         | 4     | 150  | 14263       | 0            | -67.3 |                      | 3            | 41         | 280       | 4     |  |
| 200  | 12408  | 0            | -53.9 | 11.8                 | 0            | 80         | 268       | 10    | 200   | 12466  | 0            | -52.2       | 6.6                  | 3            | 37         | 329         | 4     | 200  | 12466       | 0            | -52.2 |                      | 3            | 37         | 329       | 4     |  |
| 300  | 9683   | 0            | -32.7 | 16.9                 | 0            | 65         | 269       | 6     | 300   | 9709   | 0            | -29.5       | 12.8                 | 2            | 7          | 128         | 1     | 300  | 9709        | 0            | -29.5 | 12.8                 | 2            | 7          | 128       | 1     |  |
| 500  | 5878   | 0            | -5.4  | 27.5                 | 0            | 17         | 62        | 1     | 500   | 5869   | 0            | -4.9        | 13.1                 | 1            | 68         | 91          | 7     | 500  | 5869        | 0            | -4.9  | 13.1                 | 1            | 68         | 91        | 7     |  |
| 700  | 3161   | 0            | 8.7   | 29.2                 | 0            | 67         | 82        | 3     | 700   | 3146   | 0            | 10.0        | 9.3                  | 1            | 77         | 87          | 7     | 700  | 3146        | 0            | 10.0  | 9.3                  | 1            | 77         | 87        | 7     |  |
| 850  | 1539   | 0            | 14.0  | 2.3                  | 0            | 91         | 82        | 4     | 850   | 1504   | 0            | 18.0        | 17.7                 | 1            | 72         | 91          | 5     | 850  | 1504        | 0            | 18.0  | 17.7                 | 1            | 72         | 91        | 5     |  |
| 1015   | * 11   |              | 20.9  | 2.5                  |              |            |           |       | 1009  | * 4    |              | 29.7        | 5.5                  |              |            |             |       |  | 1009        | * 2          |       | 29.7                 | 5.5          |            |           |       |  |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |  | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE   |        |              | VECTOR WIND |                      |              |            |           |       |     |    |  |
|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|-----|----|--|
| PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |     |    |  |
| hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o         | mps   |     |    |  |
| <b>SW PACIFIC - SAMOA AND AMERICAN SAMOA</b><br><b>PAGO PAGO/INT.AIRP.</b><br>91765 SEP 2009 1420S 17040W OB 2 |        |              |       |                      |              |            |           |       | <b>W PACIFIC - FRENCH POLY. (MARQUESAS IS)</b><br><b>ATUONA</b><br>91925 SEP 2009 0949S 13902W OB 1  |             |              |       |                      |              |            |           |       | <b>SW PACIFIC - FRENCH POLY. (TUAMOTU IS)</b><br><b>RIKITEA</b><br>91948 SEP 2009 2308S 13458W OB 1 |        |              |             |                      |              |            |           |       |     |    |  |
| 030  | 23865  | 0            | -56.5 | 20.4                 | 4            | 98         | 92        | 12    | 030  | 23880       | 0            | -58.3 | 18.6                 |              | 9          |           | 88    | 17  | 030    | 23949        | 0           | -55.2                |              |            | 3         | 78    | 86  | 7  |  |
| 050  | 20673  | 0            | -63.8 | 13.4                 | 3            | 75         | 92        | 3     | 050  | 20695       | 0            | -64.5 | 12.7                 |              | 0          | 42        | 269   | 3   | 050    | 20729        | 0           | -60.5                |              |            | 3         | 78    | 90  | 4  |  |
| 100  | 16585  | 0            | -78.5 | 6.5                  | 1            | 93         | 276       | 13    | 100  | 16611       | 0            | -77.6 | 7.4                  |              | 0          | 68        | 279   | 7   | 100    | 16545        | 0           | -71.1                |              |            | 2         | 88    | 264 | 15 |  |
| 150  | 14264  | 0            | -66.9 | 8.5                  | 0            | 94         | 257       | 23    | 150  | 14248       | 0            | -66.5 | 8.9                  |              | 0          | 91        | 262   | 16  | 150    | 14113        | 0           | -63.8                |              |            | 2         | 87    | 259 | 28 |  |
| 200  | 12458  | 0            | -53.0 | 12.0                 | 0            | 94         | 257       | 23    | 200  | 12451       | 0            | -52.4 | 12.6                 |              | 0          | 88        | 261   | 15  | 200    | 12318        | 0           | -54.9                |              |            | 2         | 83    | 258 | 29 |  |
| 300  | 9703   | 0            | -31.1 | 16.9                 | 0            | 88         | 266       | 16    | 300  | 9703        | 0            | -30.5 | 33.4                 |              | 0          | 60        | 254   | 8   | 300    | 9615         | 0           | -35.0                | 17.5         |            | 2         | 81    | 261 | 22 |  |
| 500  | 5877   | 0            | -6.0  | 20.0                 | 0            | 70         | 283       | 7     | 500  | 5869        | 0            | -3.6  | 35.4                 |              | 0          | 50        | 117   | 4   | 500    | 5849         | 0           | -8.2                 | 23.8         |            | 2         | 67    | 273 | 9  |  |
| 700  | 3155   | 0            | 9.7   | 9.0                  | 1            | 21         | 287       | 2     | 700  | 3139        | 0            | 10.9  | 26.3                 |              | 0          | 60        | 42    | 3   | 700    | 3156         | 0           | 7.3                  | 25.0         |            | 2         | 23    | 275 | 2  |  |
| 850  | 1516   | 0            | 15.9  | 4.1                  | 1            | 84         | 90        | 5     | 850  | 1505        | 0            | 15.8  | 3.7                  |              | 0          |           | 100   | 8   | 850    | 1545         | 0           | 11.5                 | 4.4          |            | 1         | 38    | 81  | 3  |  |
| 1012   | * 6    |              | 26.0  | 3.1                  |              |            |           |       | 1005   | * 53        |              | 28.8  | 6.1                  |              |            |           |       |   |        | 1009         | * 91        |                      | 23.0         | 4.9        |           |       |     |    |  |
| <b>SW PACIFIC - FRENCH POLY. (AUSTRAL IS)</b><br><b>TUBUAI</b><br>91954 SEP 2009 2321S 14929W OB               |        |              |       |                      |              |            |           |       | <b>SW PACIFIC - FRENCH POLY. (AUSTRAL IS)</b><br><b>RAPA</b><br>91958 SEP 2009 2737S 14420W OB 1     |             |              |       |                      |              |            |           |       | <b>SW PACIFIC - NEW ZEALAND</b><br><b>WHENUAPAI</b><br>93112 SEP 2009 3647S 17430E OB 1             |        |              |             |                      |              |            |           |       |     |    |  |
| 030  | 23922  | 0            | -56.0 |                      | 6            | 95         | 86        | 9     | 030  | 23999       | 0            | -54.8 |                      |              | 5          | 86        | 98    | 10  | 030    | 24019        | 0           | -51.7                | 33.4         |            | 2         | 39    | 85  | 4  |  |
| 050  | 20709  | 0            | -61.1 |                      | 1            | 79         | 90        | 6     | 050  | 20760       | 0            | -58.7 |                      |              | 4          | 71        | 105   | 5   | 050    | 20722        | 0           | -53.8                | 32.7         |            | 0         | 30    | 279 | 2  |  |
| 100  | 16524  | 0            | -71.6 |                      | 1            | 91         | 279       | 15    | 100  | 16508       | 0            | -66.8 |                      |              | 2          | 94        | 268   | 15  | 100    | 16317        | 0           | -57.0                | 31.8         |            | 0         | 94    | 271 | 14 |  |
| 150  | 14088  | 0            | -64.1 |                      | 1            | 94         | 275       | 31    | 150  | 14037       | 0            | -61.7 |                      |              | 2          | 95        | 268   | 28  | 150    | 13732        | 0           | -53.6                | 31.9         |            | 0         | 96    | 270 | 23 |  |
| 200  | 12295  | 0            | -54.9 |                      | 0            | 87         | 276       | 31    | 200  | 12233       | 0            | -54.9 |                      |              | 0          | 89        | 273   | 37  | 200    | 11872        | 0           | -52.5                | 29.0         |            | 0         | 88    | 263 | 22 |  |
| 300  | 9597   | 0            | -35.5 | 11.8                 | 0            | 84         | 290       | 25    | 300  | 9545        | 0            | -37.5 | 9.2                  |              | 0          | 85        | 277   | 26  | 300    | 9236         | 0           | -45.9                | 20.0         |            | 0         | 65    | 259 | 14 |  |
| 500  | 5835   | 0            | -8.2  | 17.3                 | 0            | 83         | 294       | 13    | 500  | 5814        | 0            | -10.8 | 17.7                 |              | 0          | 77        | 286   | 14  | 500    | 5649         | 0           | -19.9                | 20.3         |            | 0         | 46    | 271 | 7  |  |
| 700  | 3145   | 0            | 6.7   | 16.0                 | 0            | 44         | 295       | 4     | 700  | 3147        | 0            | 5.0   | 22.2                 |              | 0          | 53        | 298   | 5   | 700    | 3065         | 0           | -2.7                 | 20.4         |            | 0         | 44    | 277 | 5  |  |
| 850  | 1530   | 0            | 12.5  | 4.7                  | 0            | 36         | 33        | 3     | 850  | 1546        | 0            | 9.9   | 8.5                  |              | 0          | 22        | 28    | 2   | 850    | 1501         | 0           | 5.2                  | 9.6          |            | 0         | 41    | 290 | 4  |  |
| 1017   | * 3    |              | 22.6  | 5.0                  |              |            |           |       | 1021   | * 2         |              | 18.5  | 3.8                  |              |            |           |       |   | 1015   | * 30         |             | 15.8                 | 6.4          |            |           |       |     |    |  |
| <b>SW PACIFIC - NEW ZEALAND</b><br><b>PARAPARAUMU AERODROME</b><br>93417 SEP 2009 4054S 17450E OB 1            |        |              |       |                      |              |            |           |       | <b>SW PACIFIC - NEW ZEALAND</b><br><b>INVERCARGILL AERODROME</b><br>93844 SEP 2009 4625S 16810E OB 1 |             |              |       |                      |              |            |           |       | <b>SW PACIFIC - NEW ZEALAND</b><br><b>CHATHAM ISLAND</b><br>93986 SEP 2009 4357S 17630W OB 1        |        |              |             |                      |              |            |           |       |     |    |  |
| 030  | 24017  | 0            | -50.8 | 32.5                 | 6            | 47         | 269       | 6     | 030  | 23937       | 0            | -51.2 | 33.1                 |              | 5          | 91        | 273   | 21  | 030    | 23987        | 0           | -51.1                | 33.7         |            | 1         | 74    | 269 | 14 |  |
| 050  | 20703  | 0            | -52.3 | 32.2                 | 4            | 81         | 277       | 9     | 050  | 20621       | 0            | -51.4 | 33.2                 |              | 2          | 95        | 270   | 21  | 050    | 20670        | 0           | -52.0                | 33.1         |            | 1         | 92    | 268 | 16 |  |
| 100  | 16246  | 0            | -53.6 | 31.9                 | 3            | 95         | 272       | 16    | 100  | 16115       | 0            | -52.2 | 32.3                 |              | 1          | 97        | 276   | 24  | 100    | 16189        | 0           | -52.5                | 33.0         |            | 1         | 92    | 276 | 17 |  |
| 150  | 13632  | 0            | -52.1 | 31.6                 | 1            | 94         | 271       | 20    | 150  | 13492       | 0            | -52.1 | 31.9                 |              | 0          | 95        | 275   | 23  | 150    | 13564        | 0           | -52.1                | 32.9         |            | 1         | 92    | 275 | 21 |  |
| 200  | 11769  | 0            | -54.3 | 24.2                 | 1            | 86         | 274       | 19    | 200  | 11640       | 0            | -55.2 | 23.3                 |              | 0          | 89        | 275   | 21  | 200    | 11709        | 0           | -54.8                | 23.7         |            | 1         | 83    | 273 | 20 |  |
| 300  | 9158   | 0            | -48.2 | 13.7                 | 1            | 59         | 272       | 13    | 300  | 9048        | 0            | -49.8 | 13.2                 |              | 0          | 70        | 273   | 18  | 300    | 9109         | 0           | -49.1                | 14.2         |            | 0         | 70    | 275 | 20 |  |
| 500  | 5600   | 0            | -21.3 | 20.0                 | 2            | 57         | 270       | 9     | 500  | 5520        | 0            | -24.3 | 13.2                 |              | 0          | 69        | 277   | 12  | 500    | 5560         | 0           | -22.9                | 17.5         |            | 0         | 64    | 270 | 11 |  |
| 700  | 3030   | 0            | -4.1  | 19.3                 | 2            | 54         | 278       | 6     | 700  | 2978        | 0            | -6.7  | 16.5                 |              | 0          | 72        | 277   | 10  | 700    | 3009         | 0           | -5.9                 | 18.3         |            | 0         | 56    | 273 | 7  |  |
| 850  | 1476   | 0            | 3.2   | 12.5                 | 1            | 45         | 312       | 5     | 850  | 1436        | 0            | 1.5   | .7                   |              | 1          | 68        | 292   | 9   | 850    | 1464         | 0           | 2.0                  | 11.8         |            | 0         | 52    | 279 | 6  |  |
| 1017   | * 12   |              | 12.8  | 5.0                  |              |            |           |       | 1013   | * 4         |              | 10.2  | 3.8                  |              |            |           |       |   | 1011   | * 48         |             | 10.3                 | 2.6          |            |           |       |     |    |  |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL   |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           |       | LEVEL   |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           |       | LEVEL  |        | TEMPERATURE  |      |                      | VECTOR WIND  |            |           |       |     |    |
|---|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|--------|--------------|------|----------------------|--------------|------------|-----------|-------|-----|----|
| PRESSURE  | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT | MISSING DAYS | MEAN | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |     |    |
| hPa   | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm    |              | °C   | °C                   |              | %          | o         | mps   |     |    |
| <b>SW PACIFIC - NEW ZEALAND</b><br>RAOUL ISLAND, KERMADEC IS.<br>93997 SEP 2009 2915S 17750W OB 1 |        |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA</b><br>DARWIN AIRPORT<br>94120 SEP 2009 1225S 13050E OB /       |        |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA</b><br>GOVE AIRPORT<br>94150 SEP 2009 1217S 13640E OB /          |        |              |      |                      |              |            |           |       |     |    |
| 030   |        |              |       |                      |              |            |           |       | 030   | 23883  | 0            | -57.8 | 31.5                 |              | 1          | 99        | 87    | 15   | 030    | 23886        | 0    | -57.4                | 31.6         |            | 1         | 96    | 88  | 15 |
| 050   | 20733  | 0            | -57.7 | 31.7                 | 3            | 66         | 78        | 4     | 050   | 20686  | 0            | -62.9 | 28.8                 |              | 1          | 52        | 104   | 3  | 050    | 20691        | 0    | -62.9                | 29.6         |            | 1         | 46    | 104 | 2  |
| 100   | 16427  | 0            | -63.1 | 22.4                 | 1            | 94         | 269       | 16    | 100   | 16619  | 0            | -80.7 | 8.2                  |              | 0          | 53        | 101   | 4  | 100    | 16619        | 0    | -80.2                | 9.7          |            | 0         | 63    | 113 | 5  |
| 150   | 13902  | 0            | -57.3 | 31.0                 | 2            | 92         | 265       | 29    | 150   | 14268  | 0            | -66.8 | 12.6                 |              | 0          | 42        | 50    | 4  | 150    | 14267        | 0    | -67.0                | 13.2         |            | 0         | 59    | 64  | 6  |
| 200   | 12059  | 0            | -51.4 | 28.7                 | 1            | 89         | 269       | 36    | 200   | 12473  | 0            | -52.6 | 17.4                 |              | 0          | 70        | 24    | 8  | 200    | 12472        | 0    | -52.5                | 17.2         |            | 0         | 73    | 31  | 7  |
| 300   | 9375   | 0            | -40.9 | 21.4                 | 0            | 84         | 275       | 28    | 300   | 9721   | 0            | -29.8 | 24.2                 |              | 0          | 38        | 19    | 3  | 300    | 9721         | 0    | -29.9                | 25.4         |            | 1         | 41    | 62  | 3  |
| 500   | 5723   | 0            | -16.0 | 22.9                 | 0            | 71         | 279       | 12    | 500   | 5882   | 0            | -4.5  | 24.7                 |              | 0          | 20        | 43    | 1  | 500    | 5882         | 0    | -4.2                 | 30.2         |            | 2         | 40    | 63  | 2  |
| 700   | 3103   | 0            | .7    | 25.0                 | 0            | 48         | 282       | 5     | 700   | 3167   | 0            | 8.7   | 12.6                 |              | 0          | 75        | 119   | 6  | 700    | 3161         | 0    | 9.5                  | 8.6          |            | 2         | 61    | 130 | 4  |
| 850   | 1521   | 0            | 7.2   | 7.4                  | 0            | 20         | 324       | 2     | 850   | 1533   | 0            | 18.1  | 10.6                 |              | 1          | 88        | 101   | 7  | 850    | 1527         | 0    | 17.6                 | 12.5         |            | 3         | 96    | 100 | 10 |
| 1014  | * 49   |              | 18.2  | 4.9                  |              |            |           |       | 1010  | * 35   |              | 28.2  | 6.5                  |              |            |           |       |  | 1008   | * 54         |      | 27.5                 | 7.4          |            |           |       |     |    |
| <b>SW PACIFIC - AUSTRALIA</b><br>WEIPA AERO<br>94170 SEP 2009 1241S 14150E OB                     |        |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA</b><br>BROOME AIRPORT<br>94203 SEP 2009 1757S 12210E OB /       |        |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA</b><br>TOWNSVILLE AERO<br>94294 SEP 2009 1915S 14640E OB /       |        |              |      |                      |              |            |           |       |     |    |
| 030   | 23878  | 0            | -57.4 | 29.3                 | 7            | 98         | 88        | 16    | 030   | 23900  | 0            | -55.8 | 31.7                 |              | 0          | 95        | 92    | 12   | 030    | 23909        | 0    | -56.0                | 31.9         |            | 1         | 94    | 80  | 11 |
| 050   | 20686  | 0            | -63.0 | 26.8                 | 6            | 66         | 109       | 4     | 050   | 20692  | 0            | -62.2 | 28.7                 |              | 0          | 84        | 105   | 6  | 050    | 20700        | 0    | -62.4                | 29.4         |            | 0         | 84    | 101 | 6  |
| 100   | 16619  | 0            | -79.8 | 8.5                  | 4            | 65         | 132       | 5     | 100   | 16604  | 0            | -78.6 | 9.0                  |              | 0          | 81        | 270   | 9  | 100    | 16610        | 0    | -79.3                | 9.5          |            | 0         | 90    | 259 | 12 |
| 150   | 14269  | 0            | -67.4 | 10.5                 | 4            | 41         | 66        | 4     | 150   | 14239  | 0            | -66.7 | 12.1                 |              | 0          | 93        | 282   | 20   | 150    | 14249        | 0    | -66.5                | 14.4         |            | 0         | 93    | 263 | 20 |
| 200   | 12477  | 0            | -52.6 | 15.7                 | 4            | 72         | 18        | 6     | 200   | 12443  | 0            | -52.6 | 17.8                 |              | 0          | 95        | 285   | 21   | 200    | 12448        | 0    | -52.2                | 19.9         |            | 0         | 94    | 272 | 22 |
| 300   | 9726   | 0            | -29.9 | 24.1                 | 1            | 16         | 43        | 1     | 300   | 9690   | 0            | -29.8 | 30.6                 |              | 0          | 94        | 282   | 20   | 300    | 9698         | 0    | -30.4                | 28.1         |            | 0         | 95    | 264 | 21 |
| 500   | 5889   | 0            | -4.3  | 29.1                 | 1            | 36         | 85        | 2     | 500   | 5860   | 0            | -5.2  | 37.0                 |              | 0          | 88        | 277   | 11   | 500    | 5875         | 0    | -4.8                 | 34.6         |            | 0         | 81    | 274 | 11 |
| 700   | 3164   | 0            | 9.8   | 18.9                 | 1            | 46         | 101       | 3     | 700   | 3164   | 0            | 6.6   | 11.8                 |              | 0          | 71        | 345   | 6  | 700    | 3162         | 0    | 7.8                  | 30.1         |            | 0         | 34    | 207 | 3  |
| 850   | 1529   | 0            | 18.0  | 13.1                 | 1            | 96         | 128       | 10    | 850   | 1532   | 0            | 19.7  | 18.3                 |              | 0          | 41        | 350   | 2  | 850    | 1541         | 0    | 14.4                 | 15.1         |            | 0         | 65    | 102 | 4  |
| 1012  | * 19   |              | 27.8  | 10.1                 |              |            |           |       | 1013  | * 17   |              | 24.6  | 24.2                 |              |            |           |       |  | 1017   | * 9          |      | 26.4                 | 12.9         |            |           |       |     |    |
| <b>SW PACIFIC - AUSTRALIA</b><br>LEARMONTH AIRPORT<br>94302 SEP 2009 2214S 11400E OB /            |        |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA</b><br>PORT HEDLAND AIRPORT<br>94312 SEP 2009 2022S 11830E OB / |        |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA</b><br>ALICE SPRINGS AIRPORT<br>94326 SEP 2009 2348S 13350E OB / |        |              |      |                      |              |            |           |       |     |    |
| 030   | 23910  | 0            | -55.5 | 32.0                 | 0            | 96         | 90        | 13    | 030   | 23898  | 0            | -55.9 | 31.7                 |              | 1          | 96        | 94    | 13   | 030    | 23932        | 0    | -55.6                | 32.0         |            | 2         | 94    | 91  | 13 |
| 050   | 20688  | 0            | -61.3 | 30.4                 | 0            | 74         | 125       | 5     | 050   | 20684  | 0            | -61.7 | 30.0                 |              | 1          | 81        | 116   | 6  | 050    | 20705        | 0    | -60.2                | 30.5         |            | 1         | 67    | 97  | 4  |
| 100   | 16556  | 0            | -75.3 | 13.1                 | 0            | 93         | 264       | 21    | 100   | 16578  | 0            | -77.5 | 10.9                 |              | 1          | 93        | 265   | 18   | 100    | 16545        | 0    | -74.6                | 13.3         |            | 0         | 96    | 272 | 25 |
| 150   | 14160  | 0            | -65.2 | 16.4                 | 0            | 96         | 274       | 38    | 150   | 14199  | 0            | -66.0 | 15.6                 |              | 1          | 96        | 277   | 30   | 150    | 14148        | 0    | -65.3                | 16.0         |            | 0         | 97    | 274 | 42 |
| 200   | 12352  | 0            | -51.5 | 22.7                 | 0            | 98         | 273       | 40    | 200   | 12398  | 0            | -52.5 | 19.8                 |              | 1          | 98        | 277   | 31   | 200    | 12344        | 0    | -52.0                | 20.2         |            | 0         | 96    | 278 | 44 |
| 300   | 9606   | 0            | -32.1 | 27.2                 | 0            | 94         | 265       | 34    | 300   | 9648   | 0            | -30.6 | 30.5                 |              | 1          | 95        | 273   | 28   | 300    | 9596         | 0    | -31.2                | 28.5         |            | 0         | 97    | 278 | 41 |
| 500   | 5821   | 0            | -8.1  | 39.2                 | 0            | 89         | 268       | 15    | 500   | 5837   | 0            | -7.0  | 40.8                 |              | 0          | 91        | 276   | 15   | 500    | 5815         | 0    | -9.4                 | 32.4         |            | 0         | 94    | 272 | 20 |
| 700   | 3133   | 0            | 6.1   | 34.8                 | 0            | 74         | 285       | 7     | 700   | 3147   | 0            | 6.2   | 25.3                 |              | 0          | 76        | 311   | 8  | 700    | 3152         | 0    | 5.1                  | 17.1         |            | 1         | 85    | 286 | 10 |
| 850   | 1521   | 0            | 13.5  | 24.4                 | 0            | 14         | 197       | 1     | 850   | 1523   | 0            | 17.5  | 24.8                 |              | 0          | 41        | 322   | 3  | 850    | 1535         | 0    | 14.8                 | 18.3         |            | 0         | 32    | 330 | 3  |
| 1016  | * 6    |              | 16.0  | 8.4                  |              |            |           |       | 1013  | * 10   |              | 20.7  | 12.2                 |              |            |           |       |  | 955    | * 547        |      | 21.4                 | 25.5         |            |           |       |     |    |



# UPPER AIR

# SEPTEMBER 2009

| LEVEL   |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |   | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE  |        |              | VECTOR WIND |                      |              |            |           |       |  |  |  |  |  |  |
|---|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|--|--|--|--|--|--|
| PRESSURE  | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |  |  |  |  |  |  |
| hPa   | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm    |              | °C          | °C                   |              | %          | o         | mps   |  |  |  |  |  |  |
| <b>SW PACIFIC - AUSTRALIA MOUNT ISA AERO</b><br>94332 SEP 2009 2041S 13920E OB /      |        |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA ROCKHAMPTON AERO</b><br>94374 SEP 2009 2323S 15020E OB              |             |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA GERALDTON AIRPORT</b><br>94403 SEP 2009 2848S 11440E OB /          |        |              |             |                      |              |            |           |       |  |  |  |  |  |  |
| 030   | 23924  | 0            | -55.8 | 32.0                 | 2            | 97         | 89        | 12    | 030   | 23929       | 0            | -55.7 | 32.0                 | 1            | 97         | 91        | 13    | 030  | 23960  | 0            | -52.9       | 32.9                 |              |            |           |       |  |  |  |  |  |  |
| 050   | 20713  | 0            | -61.3 | 30.2                 | 1            | 77         | 108       | 6     | 050   | 20707       | 0            | -60.6 | 30.2                 | 1            | 77         | 74        | 5     | 050  | 20701  | 0            | -58.2       | 31.2                 |              |            |           |       |  |  |  |  |  |  |
| 100   | 16605  | 0            | -78.0 | 10.7                 | 1            | 91         | 270       | 16    | 100   | 16560       | 0            | -75.4 | 12.2                 | 1            | 94         | 264       | 21    | 100  | 16436  | 0            | -66.2       | 22.8                 |              |            |           |       |  |  |  |  |  |  |
| 150   | 14234  | 0            | -66.1 | 15.1                 | 1            | 95         | 272       | 25    | 150   | 14173       | 0            | -65.8 | 15.7                 | 0            | 97         | 265       | 38    | 150  | 13941  | 0            | -58.7       | 25.5                 |              |            |           |       |  |  |  |  |  |  |
| 200   | 12433  | 0            | -51.9 | 21.7                 | 1            | 93         | 275       | 28    | 200   | 12369       | 0            | -52.0 | 20.8                 | 0            | 96         | 267       | 39    | 200  | 12102  | 0            | -50.5       | 26.5                 |              |            |           |       |  |  |  |  |  |  |
| 300   | 9679   | 0            | -30.5 | 27.9                 | 0            | 96         | 274       | 27    | 300   | 9625        | 0            | -31.7 | 26.0                 | 0            | 96         | 264       | 36    | 300  | 9391   | 0            | -38.0       | 23.7                 |              |            |           |       |  |  |  |  |  |  |
| 500   | 5859   | 0            | -6.0  | 37.0                 | 0            | 91         | 276       | 13    | 500   | 5830        | 0            | -7.5  | 34.2                 | 0            | 92         | 267       | 19    | 500  | 5710   | 0            | -15.1       | 30.7                 |              |            |           |       |  |  |  |  |  |  |
| 700   | 3165   | 0            | 6.5   | 23.0                 | 0            | 57         | 219       | 5     | 700   | 3149        | 0            | 5.8   | 26.6                 | 0            | 61         | 236       | 6     | 700  | 3089   | 0            | 1.1         | 29.6                 |              |            |           |       |  |  |  |  |  |  |
| 850   | 1542   | 0            | 17.3  | 24.4                 | 0            | 34         | 80        | 2     | 850   | 1539        | 0            | 12.5  | 13.3                 | 0            | 28         | 37        | 2     | 850  | 1507   | 0            | 7.2         | 16.9                 |              |            |           |       |  |  |  |  |  |  |
| 977   | * 342  |              | 24.7  | 22.3                 |              |            |           |       | 1017  | * 14        |              | 24.1  | 24.0                 |              |            |           |       | 1015   | * 37   |              | 11.4        | 3.6                  |              |            |           |       |  |  |  |  |  |  |
| <b>SW PACIFIC - AUSTRALIA MEEKATHARRA AIRPORT</b><br>94430 SEP 2009 2637S 11830E OB 2 |        |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA GILES METEOROLOGICAL OFFICE</b><br>94461 SEP 2009 2502S 12810E OB / |             |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA CHARLEVILLE AERO</b><br>94510 SEP 2009 2625S 14610E OB /           |        |              |             |                      |              |            |           |       |  |  |  |  |  |  |
| 030   | 23945  | 0            | -53.6 | 32.6                 | 1            | 86         | 92        | 13    | 030   | 23937       | 0            | -55.2 | 32.2                 | 0            | 95         | 88        | 13    | 030  | 23944  | 0            | -54.8       | 32.4                 | 0            | 95         | 90        | 14    |  |  |  |  |  |  |
| 050   | 20700  | 0            | -59.3 | 30.9                 | 1            | 41         | 124       | 3     | 050   | 20703       | 0            | -60.2 | 30.2                 | 0            | 50         | 119       | 3     | 050  | 20706  | 0            | -59.5       | 31.0                 | 0            | 72         | 65        | 5     |  |  |  |  |  |  |
| 100   | 16477  | 0            | -68.8 | 21.0                 | 1            | 97         | 266       | 28    | 100   | 16517       | 0            | -72.3 | 16.2                 | 0            | 98         | 274       | 27    | 100  | 16505  | 0            | -71.0       | 18.2                 | 0            | 98         | 266       | 24    |  |  |  |  |  |  |
| 150   | 14019  | 0            | -61.5 | 23.9                 | 1            | 97         | 273       | 47    | 150   | 14096       | 0            | -63.7 | 19.0                 | 0            | 98         | 276       | 46    | 150  | 14079  | 0            | -64.0       | 19.5                 | 0            | 96         | 267       | 47    |  |  |  |  |  |  |
| 200   | 12194  | 0            | -51.4 | 26.0                 | 1            | 99         | 273       | 51    | 200   | 12285       | 0            | -51.7 | 22.6                 | 0            | 97         | 279       | 51    | 200  | 12269  | 0            | -51.8       | 24.1                 | 0            | 97         | 268       | 53    |  |  |  |  |  |  |
| 300   | 9470   | 0            | -35.8 | 24.7                 | 0            | 96         | 273       | 42    | 300   | 9545        | 0            | -33.2 | 27.4                 | 0            | 96         | 278       | 43    | 300  | 9531   | 0            | -33.1       | 27.0                 | 0            | 96         | 269       | 48    |  |  |  |  |  |  |
| 500   | 5750   | 0            | -12.6 | 34.0                 | 0            | 92         | 269       | 21    | 500   | 5793        | 0            | -10.7 | 34.2                 | 1            | 94         | 275       | 21    | 500  | 5785   | 0            | -11.6       | 31.0                 | 0            | 97         | 266       | 21    |  |  |  |  |  |  |
| 700   | 3107   | 0            | 2.5   | 28.2                 | 0            | 80         | 279       | 10    | 700   | 3136        | 0            | 4.7   | 21.4                 | 4            | 87         | 281       | 12    | 700  | 3134   | 0            | 3.4         | 25.9                 | 0            | 85         | 261       | 9     |  |  |  |  |  |  |
| 850   | 1514   | 0            | 10.0  | 17.3                 | 0            | 49         | 248       | 4     | 850   | 1521        | 0            | 15.1  | 21.5                 | 1            | 30         | 305       | 3     | 850  | 1535   | 0            | 12.0        | 17.3                 | 0            | 57         | 291       | 4     |  |  |  |  |  |  |
| 958   | * 522  |              | 12.3  | 11.2                 |              |            |           |       | 948   | * 599       |              | 19.0  | 22.3                 |              |            |           |       | 983  | * 306  |              | 21.3        | 19.4                 |              |            |           |       |  |  |  |  |  |  |
| <b>SW PACIFIC - AUSTRALIA BRISBANE AERO</b><br>94578 SEP 2009 2723S 15300E OB /       |        |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA PERTH AIRPORT</b><br>94610 SEP 2009 3156S 11550E OB /               |             |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA KALGOORLIE-BOULDER AIRPORT</b><br>94637 SEP 2009 3047S 12120E OB / |        |              |             |                      |              |            |           |       |  |  |  |  |  |  |
| 030   | 23956  | 0            | -54.6 | 32.3                 | 1            | 95         | 90        | 14    | 030   | 23967       | 0            | -51.6 | 33.3                 | 1            | 65         | 97        | 10    | 030  | 23956  | 0            | -52.7       | 32.8                 | 6            | 75         | 93        | 11    |  |  |  |  |  |  |
| 050   | 20712  | 0            | -59.1 | 31.1                 | 0            | 77         | 73        | 5     | 050   | 20683       | 0            | -56.0 | 32.0                 | 1            | 36         | 245       | 3     | 050  | 20686  | 0            | -56.5       | 31.7                 | 5            | 27         | 146       | 2     |  |  |  |  |  |  |
| 100   | 16487  | 0            | -69.4 | 19.1                 | 0            | 96         | 266       | 24    | 100   | 16338       | 0            | -60.8 | 29.6                 | 1            | 96         | 267       | 28    | 100  | 16362  | 0            | -63.1       | 27.2                 | 2            | 98         | 273       | 30    |  |  |  |  |  |  |
| 150   | 14041  | 0            | -62.6 | 21.1                 | 0            | 97         | 264       | 46    | 150   | 13794       | 0            | -56.1 | 30.4                 | 1            | 97         | 266       | 44    | 150  | 13839  | 0            | -57.3       | 28.9                 | 1            | 99         | 272       | 46    |  |  |  |  |  |  |
| 200   | 12225  | 0            | -51.8 | 24.0                 | 0            | 97         | 265       | 54    | 200   | 11941       | 0            | -50.4 | 30.3                 | 1            | 96         | 268       | 50    | 200  | 11995  | 0            | -50.6       | 28.9                 | 0            | 97         | 274       | 52    |  |  |  |  |  |  |
| 300   | 9493   | 0            | -34.3 | 26.6                 | 0            | 96         | 266       | 46    | 300   | 9261        | 0            | -42.5 | 20.4                 | 0            | 88         | 267       | 39    | 300  | 9304   | 0            | -41.0       | 20.9                 | 0            | 95         | 273       | 44    |  |  |  |  |  |  |
| 500   | 5766   | 0            | -12.7 | 30.1                 | 0            | 91         | 265       | 20    | 500   | 5641        | 0            | -17.9 | 25.1                 | 0            | 85         | 263       | 22    | 500  | 5664   | 0            | -17.2       | 23.3                 | 0            | 91         | 274       | 23    |  |  |  |  |  |  |
| 700   | 3122   | 0            | 2.4   | 25.4                 | 0            | 80         | 263       | 9     | 700   | 3044        | 0            | -1.8  | 20.0                 | 0            | 85         | 258       | 15    | 700  | 3058   | 0            | -.3         | 25.0                 | 0            | 88         | 268       | 15    |  |  |  |  |  |  |
| 850   | 1527   | 0            | 11.0  | 17.4                 | 0            | 46         | 274       | 4     | 850   | 1483        | 0            | 3.6   | 9.7                  | 0            | 78         | 260       | 9     | 850  | 1486   | 0            | 5.1         | 11.3                 | 0            | 75         | 268       | 9     |  |  |  |  |  |  |
| 1018  | * 10   |              | 22.1  | 11.8                 |              |            |           |       | 1016  | * 20        |              | 11.4  | 3.6                  |              |            |           |       | 974  | * 370  |              | 10.2        | 9.9                  |              |            |           |       |  |  |  |  |  |  |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |  | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE   |        |              | VECTOR WIND |                      |              |            |           |       |
|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|
| PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |
| hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o         | mps   |
| <b>SW PACIFIC - AUSTRALIA ESPERANCE</b><br>94638 SEP 2009 3350S 12150E OB /        |        |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA EUCLA</b><br>94647 SEP 2009 3141S 12850E OB                |             |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA WOOMERA AERODROME</b><br>94659 SEP 2009 3109S 13640E OB / |        |              |             |                      |              |            |           |       |
| 030  | 23990  | 0            | -51.3 | 33.4                 | 9            | 53         | 112       | 8     | 030  | 23970       | 0            | -52.7 | 33.0                 | 8            | 58         | 79        | 8     | 030   | 23973  | 0            | -53.2       | 32.7                 | 1            | 72         | 83        | 10    |
| 050  | 20692  | 0            | -54.5 | 32.3                 | 8            | 42         | 282       | 4     | 050  | 20693       | 0            | -55.7 | 32.1                 | 3            | 20         | 277       | 2     | 050   | 20701  | 0            | -55.9       | 31.9                 | 1            | 37         | 33        | 3     |
| 100  | 16294  | 0            | -58.1 | 31.0                 | 4            | 97         | 273       | 29    | 100  | 16361       | 0            | -61.9 | 29.3                 | 1            | 97         | 272       | 28    | 100   | 16384  | 0            | -63.2       | 28.4                 | 1            | 97         | 272       | 27    |
| 150  | 13723  | 0            | -53.8 | 31.7                 | 4            | 98         | 271       | 41    | 150  | 13830       | 0            | -57.0 | 30.5                 | 0            | 98         | 276       | 47    | 150   | 13868  | 0            | -58.1       | 29.0                 | 1            | 97         | 271       | 48    |
| 200  | 11859  | 0            | -50.0 | 30.5                 | 3            | 97         | 273       | 48    | 200  | 11983       | 0            | -50.3 | 29.7                 | 0            | 97         | 274       | 56    | 200   | 12026  | 0            | -50.7       | 28.4                 | 1            | 97         | 274       | 58    |
| 300  | 9193   | 0            | -44.7 | 19.0                 | 3            | 88         | 273       | 38    | 300  | 9291        | 0            | -41.2 | 21.1                 | 0            | 95         | 275       | 45    | 300   | 9322   | 0            | -40.0       | 23.4                 | 1            | 97         | 275       | 47    |
| 500  | 5596   | 0            | -19.8 | 22.7                 | 2            | 89         | 272       | 25    | 500  | 5656        | 0            | -17.7 | 25.1                 | 0            | 91         | 272       | 25    | 500   | 5678   | 0            | -17.4       | 27.4                 | 1            | 93         | 278       | 23    |
| 700  | 3014   | 0            | -3.2  | 21.1                 | 2            | 83         | 268       | 16    | 700  | 3056        | 0            | -1.0  | 24.6                 | 0            | 78         | 277       | 13    | 700   | 3075   | 0            | -.5         | 18.0                 | 1            | 85         | 282       | 13    |
| 850  | 1460   | 0            | 2.6   | 6.0                  | 2            | 84         | 264       | 12    | 850  | 1485        | 0            | 6.3   | 12.1                 | 0            | 80         | 253       | 9     | 850   | 1495   | 0            | 8.6         | 14.2                 | 1            | 62         | 290       | 7     |
| 1012   | * 27   |              | 10.5  | 4.4                  |              |            |           |       | 1004   | * 102       |              | 13.8  | 7.7                  |              |            |           |       | 997   | * 168  |              | 16.3        | 15.2                 |              |            |           |       |
| <b>SW PACIFIC - AUSTRALIA ADELAIDE AIRPORT</b><br>94672 SEP 2009 3457S 13830E OB / |        |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA COBAR MO</b><br>94711 SEP 2009 3129S 14550E OB /           |             |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA WILLIAMTOWN RAAF</b><br>94776 SEP 2009 3248S 15150E OB /  |        |              |             |                      |              |            |           |       |
| 030  | 24028  | 0            | -50.5 | 33.2                 | 4            | 47         | 69        | 6     | 030  | 23990       | 0            | -52.9 | 32.9                 | 6            | 75         | 82        | 9     | 030   | 23993  | 0            | -52.8       | 32.6                 | 3            | 74         | 82        | 9     |
| 050  | 20719  | 0            | -53.4 | 32.2                 | 3            | 64         | 307       | 6     | 050  | 20718       | 0            | -56.3 | 31.9                 | 1            | 31         | 30        | 2     | 050   | 20715  | 0            | -55.6       | 31.9                 | 2            | 32         | 10        | 2     |
| 100  | 16316  | 0            | -57.6 | 30.6                 | 1            | 97         | 275       | 26    | 100  | 16405       | 0            | -63.2 | 28.0                 | 1            | 97         | 272       | 25    | 100   | 16372  | 0            | -61.3       | 28.4                 | 1            | 97         | 271       | 24    |
| 150  | 13739  | 0            | -53.9 | 30.9                 | 0            | 98         | 274       | 42    | 150  | 13888       | 0            | -58.3 | 28.1                 | 1            | 98         | 269       | 47    | 150   | 13839  | 0            | -56.4       | 28.6                 | 1            | 97         | 269       | 40    |
| 200  | 11876  | 0            | -50.2 | 29.3                 | 0            | 97         | 276       | 48    | 200  | 12048       | 0            | -50.9 | 28.0                 | 0            | 97         | 268       | 57    | 200   | 11989  | 0            | -50.4       | 27.7                 | 0            | 96         | 266       | 52    |
| 300  | 9204   | 0            | -44.2 | 21.4                 | 0            | 94         | 278       | 36    | 300  | 9347        | 0            | -39.9 | 23.0                 | 0            | 96         | 269       | 43    | 300   | 9295   | 0            | -41.1       | 22.2                 | 0            | 93         | 267       | 38    |
| 500  | 5615   | 0            | -20.0 | 18.1                 | 0            | 87         | 282       | 21    | 500  | 5697        | 0            | -16.9 | 25.2                 | 0            | 91         | 272       | 21    | 500   | 5666   | 0            | -18.0       | 25.2                 | 0            | 92         | 271       | 19    |
| 700  | 3032   | 0            | -2.3  | 17.8                 | 0            | 83         | 284       | 14    | 700  | 3088        | 0            | .0    | 23.7                 | 0            | 84         | 267       | 11    | 700   | 3068   | 0            | -1.2        | 17.6                 | 0            | 86         | 272       | 12    |
| 850  | 1466   | 0            | 5.5   | 8.9                  | 0            | 70         | 285       | 9     | 850  | 1509        | 0            | 8.5   | 13.7                 | 0            | 68         | 275       | 7     | 850   | 1492   | 0            | 8.6         | 11.4                 | 0            | 75         | 283       | 8     |
| 1014   | * 8    |              | 15.2  | 9.0                  |              |            |           |       | 986  | * 264       |              | 17.2  | 14.6                 |              |            |           |       | 1014  | * 10   |              | 18.5        | 11.0                 |              |            |           |       |
| <b>SW PACIFIC - AUSTRALIA ALBANY AIRPORT</b><br>94802 SEP 2009 3456S 11740E OB /   |        |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA MOUNT GAMBIER AERO</b><br>94821 SEP 2009 3744S 14040E OB / |             |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA MELBOURNE AIRPORT</b><br>94866 SEP 2009 3740S 14450E OB   |        |              |             |                      |              |            |           |       |
| 030  | 23985  | 0            | -50.3 | 33.7                 |              |            |           |       | 030  | 23994       | 0            | -50.2 | 33.4                 | 5            | 15         | 323       | 2     | 030   | 23998  | 0            | -51.3       | 32.7                 | 5            | 16         | 323       | 2     |
| 050  | 20677  | 0            | -53.6 | 32.7                 |              |            |           |       | 050  | 20686       | 0            | -52.2 | 32.9                 | 1            | 77         | 288       | 7     | 050   | 20695  | 0            | -52.4       | 32.5                 | 1            | 78         | 290       | 7     |
| 100  | 16266  | 0            | -56.9 | 31.3                 |              |            |           |       | 100  | 16239       | 0            | -55.0 | 32.0                 | 1            | 95         | 278       | 24    | 100   | 16258  | 0            | -56.1       | 31.1                 | 0            | 98         | 277       | 24    |
| 150  | 13680  | 0            | -52.7 | 32.4                 | 5            | 97         | 266       | 38    | 150  | 13635       | 0            | -51.7 | 32.4                 | 1            | 95         | 276       | 33    | 150   | 13656  | 0            | -51.8       | 32.3                 | 0            | 97         | 275       | 34    |
| 200  | 11810  | 0            | -50.2 | 30.0                 | 1            | 96         | 269       | 42    | 200  | 11761       | 0            | -50.4 | 29.2                 | 0            | 95         | 275       | 39    | 200   | 11786  | 0            | -50.4       | 29.1                 | 0            | 97         | 273       | 38    |
| 300  | 9156   | 0            | -45.7 | 18.9                 | 1            | 89         | 264       | 36    | 300  | 9118        | 0            | -47.2 | 16.8                 | 0            | 90         | 280       | 31    | 300   | 9139   | 0            | -46.9       | 16.4                 | 0            | 89         | 273       | 29    |
| 500  | 5572   | 0            | -20.0 | 18.3                 | 1            | 87         | 261       | 25    | 500  | 5558        | 0            | -21.8 | 14.6                 | 0            | 81         | 284       | 21    | 500   | 5577   | 0            | -21.5       | 14.6                 | 0            | 88         | 281       | 20    |
| 700  | 2996   | 0            | -4.2  | 19.9                 | 1            | 86         | 262       | 17    | 700  | 2995        | 0            | -4.2  | 16.3                 | 0            | 77         | 282       | 13    | 700   | 3008   | 0            | -3.9        | 13.5                 | 0            | 76         | 279       | 12    |
| 850  | 1445   | 0            | 1.6   | 6.8                  | 0            | 89         | 266       | 14    | 850  | 1441        | 0            | 3.6   | 6.0                  | 0            | 67         | 285       | 9     | 850   | 1451   | 0            | 4.3         | 9.5                  | 0            | 66         | 285       | 8     |
| 1006   | * 71   |              | 9.6   | 3.0                  |              |            |           |       | 1004   | * 69        |              | 11.9  | 4.4                  |              |            |           |       | 1000  | * 132  |              | 12.8        | 8.5                  |              |            |           |       |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL |   | TEMPERATURE |              |       | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE  |        |              | VECTOR WIND |                      |              |            |           |       |
|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|-------------|--------------|-------|----------------------|--------------|------------|-----------|-------|--|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|
| PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT      | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE   | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |
| hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm         |              | °C    | °C                   |              | %          | o         | mps   | hPa  | gpm    |              | °C          | °C                   |              | %          | o         | mps   |
| <b>SW PACIFIC - AUSTRALIA</b><br><b>WAGGA WAGGA AMO</b><br>94910 SEP 2009 3510S 14720E OB /                        |        |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA</b><br><b>HOBART AIRPORT</b><br>94975 SEP 2009 4250S 14730E OB /                      |             |              |       |                      |              |            |           |       | <b>SW PACIFIC - AUSTRALIA</b><br><b>MOREE AERO</b><br>95527 SEP 2009 2929S 14950E OB /                       |        |              |             |                      |              |            |           |       |
| 030  | 24032  | 0            | -51.1 | 33.5                 | 3            | 52         | 69        | 6     | 030   | 23962       | 0            | -50.3 | 32.6                 | 2            | 84         | 286       | 13    | 030  | 23971  | 0            | -54.4       | 31.7                 | 4            | 94         | 88        | 12    |
| 050  | 20719  | 0            | -54.1 | 32.5                 | 1            | 62         | 302       | 4     | 050   | 20628       | 0            | -50.0 | 33.0                 | 1            | 92         | 284       | 16    | 050  | 20715  | 0            | -57.3       | 30.7                 | 3            | 43         | 65        | 3     |
| 100  | 16327  | 0            | -58.3 | 31.0                 | 0            | 98         | 271       | 24    | 100   | 16127       | 0            | -51.9 | 32.4                 | 0            | 97         | 279       | 23    | 100  | 16450  | 0            | -66.5       | 22.2                 | 1            | 96         | 269       | 25    |
| 150  | 13756  | 0            | -54.0 | 31.4                 | 0            | 98         | 271       | 38    | 150   | 13497       | 0            | -50.6 | 32.2                 | 0            | 97         | 280       | 27    | 150  | 13968  | 0            | -60.3       | 23.5                 | 1            | 99         | 267       | 48    |
| 200  | 11893  | 0            | -50.2 | 29.0                 | 0            | 97         | 269       | 46    | 200   | 11625       | 0            | -52.2 | 27.3                 | 0            | 93         | 282       | 27    | 200  | 12139  | 0            | -51.4       | 24.9                 | 1            | 98         | 266       | 58    |
| 300  | 9222   | 0            | -44.4 | 19.5                 | 0            | 95         | 269       | 33    | 300   | 9015        | 0            | -49.7 | 13.0                 | 0            | 80         | 287       | 23    | 300  | 9418   | 0            | -36.7       | 23.1                 | 0            | 95         | 266       | 48    |
| 500  | 5629   | 0            | -19.5 | 21.7                 | 0            | 87         | 271       | 18    | 500   | 5488        | 0            | -23.5 | 12.6                 | 0            | 68         | 286       | 14    | 500  | 5733   | 0            | -15.0       | 26.9                 | 0            | 91         | 267       | 20    |
| 700  | 3043   | 0            | -2.2  | 22.7                 | 0            | 80         | 274       | 11    | 700   | 2940        | 0            | -6.2  | 11.9                 | 1            | 61         | 278       | 10    | 700  | 3112   | 0            | .7          | 21.9                 | 0            | 83         | 267       | 10    |
| 850  | 1477   | 0            | 5.7   | 12.3                 | 0            | 80         | 278       | 9     | 850   | 1396        | 0            | 2.1   | 5.2                  | 1            | 63         | 286       | 9     | 850  | 1527   | 0            | 9.4         | 11.9                 | 0            | 56         | 290       | 5     |
| 990  | * 221  |              | 12.1  | 6.4                  |              |            |           |       | 1005  | * 27        |              | 11.7  | 6.5                  |              |            |           |       | 993  | * 218  |              | 18.5        | 12.9                 |              |            |           |       |
| <b>SW PACIFIC - AUSTRALIA (ADDITIONAL IS.)</b><br><b>LORD HOWE ISLAND AERO</b><br>94995 SEP 2009 3132S 15900E OB / |        |              |       |                      |              |            |           |       | <b>W PACIFIC - AUSTRALIA (ADDITIONAL IS.)</b><br><b>NORFOLK ISLAND AERO</b><br>94996 SEP 2009 2902S 16750E OB / |             |              |       |                      |              |            |           |       | <b>W PACIFIC - AUSTRALIA (ADDITIONAL IS.)</b><br><b>MACQUARIE ISLAND</b><br>94998 SEP 2009 5430S 15850E OB 3 |        |              |             |                      |              |            |           |       |
| 030  | 23990  | 0            | -53.2 | 32.7                 | 4            | 80         | 86        | 9     | 030   | 23975       | 0            | -54.4 | 32.3                 | 2            | 90         | 87        | 12    | 030  | 23472  | 0            | -51.9       | 31.3                 | 3            | 95         | 276       | 53    |
| 050  | 20723  | 0            | -56.2 | 31.4                 | 4            | 71         | 74        | 4     | 050   | 20726       | 0            | -58.3 | 31.1                 | 1            | 79         | 72        | 6     | 050  | 20175  | 0            | -53.6       | 30.6                 | 3            | 96         | 278       | 47    |
| 100  | 16407  | 0            | -62.6 | 28.7                 | 3            | 95         | 263       | 20    | 100   | 16444       | 0            | -64.5 | 24.3                 | 1            | 96         | 261       | 18    | 100  | 15736  | 0            | -55.4       | 29.7                 | 3            | 98         | 281       | 36    |
| 150  | 13886  | 0            | -57.5 | 29.5                 | 2            | 96         | 262       | 40    | 150   | 13943       | 0            | -59.1 | 25.0                 | 1            | 97         | 260       | 38    | 150  | 13158  | 0            | -56.5       | 28.2                 | 3            | 97         | 281       | 28    |
| 200  | 12043  | 0            | -50.8 | 30.6                 | 2            | 96         | 260       | 51    | 200   | 12106       | 0            | -51.0 | 27.1                 | 2            | 95         | 258       | 46    | 200  | 11353  | 0            | -59.8       | 21.7                 | 2            | 90         | 281       | 24    |
| 300  | 9347   | 0            | -40.1 | 22.8                 | 2            | 92         | 260       | 40    | 300   | 9406        | 0            | -38.9 | 22.1                 | 2            | 91         | 258       | 37    | 300  | 8807   | 0            | -54.1       | 13.2                 | 1            | 73         | 285       | 18    |
| 500  | 5699   | 0            | -17.0 | 25.6                 | 1            | 75         | 274       | 16    | 500   | 5733        | 0            | -14.6 | 26.4                 | 1            | 79         | 259       | 14    | 500  | 5347   | 0            | -28.1       | 10.6                 | 1            | 71         | 290       | 12    |
| 700  | 3091   | 0            | -1    | 20.3                 | 2            | 73         | 256       | 8     | 700   | 3105        | 0            | 1.2   | 28.4                 | 1            | 42         | 244       | 5     | 700  | 2845   | 0            | -10.9       | 9.0                  | 1            | 73         | 294       | 10    |
| 850  | 1512   | 0            | 8.3   | 11.7                 | 3            | 51         | 276       | 5     | 850   | 1522        | 0            | 8.0   | 8.6                  | 0            | 10         | 241       | 1     | 850  | 1328   | 0            | -2.9        | 6.9                  | 1            | 61         | 306       | 8     |
| 1017   | * 7    |              | 19.5  | 7.1                  |              |            |           |       | 1006  | * 117       |              | 18.2  | 6.0                  |              |            |           |       | 1002   | * 8    |              | 4.6         | 2.2                  |              |            |           |       |
| <b>SW PACIFIC - MALAYSIA (SABAH AND SARAWAK)</b><br><b>KUCHING</b><br>96413 SEP 2009 0129N 11020E OB 3             |        |              |       |                      |              |            |           |       | <b>W PACIFIC - MALAYSIA (SABAH AND SARAWAK)</b><br><b>BINTULU</b><br>96441 SEP 2009 0312N 11300E OB 3           |             |              |       |                      |              |            |           |       | <b>W PACIFIC - MALAYSIA (SABAH AND SARAWAK)</b><br><b>KOTA KINABALU</b><br>96471 SEP 2009 0556N 11600E OB 3  |        |              |             |                      |              |            |           |       |
| 030  | 23839  | 0            | -61.3 | 27.7                 | 4            | 91         | 95        | 19    | 030   | 23800       | 0            | -60.7 | 35.0                 | 2            | 84         | 95        | 16    | 030  | 24215  |              |             |                      | 4            | 95         | 55        | 13    |
| 050  | 20702  | 0            | -66.3 | 17.3                 | 3            | 87         | 269       | 9     | 050   | 20701       | 0            | -65.8 | 26.1                 | 2            | 66         | 247       | 5     | 050  | 23429  |              |             |                      | 3            | 68         | 95        | 5     |
| 100  | 16605  | 0            | -77.2 | 9.1                  | 2            | 63         | 96        | 10    | 100   | 16599       | 0            | -76.6 | 13.7                 | 2            | 73         | 103       | 11    | 100  | 14564  | 0            | -69.0       | 21.3                 | 1            | 91         | 87        | 19    |
| 150  | 14208  | 0            | -67.8 | 7.6                  | 2            | 98         | 74        | 26    | 150   | 14199       | 0            | -67.3 | 10.9                 | 0            | 97         | 73        | 28    | 150  | 13465  | 0            | -64.5       | 13.7                 | 0            | 96         | 74        | 26    |
| 200  | 12422  | 0            | -53.5 | 6.8                  | 1            | 97         | 68        | 21    | 200   | 12408       | 0            | -53.0 | 10.2                 | 0            | 97         | 70        | 21    | 200  | 11762  | 0            | -50.4       | 12.8                 | 0            | 94         | 69        | 21    |
| 300  | 9689   | 0            | -30.6 | 7.3                  | 1            | 92         | 87        | 11    | 300   | 9677        | 0            | -30.3 | 9.6                  | 0            | 86         | 84        | 10    | 300  | 9162   | 0            | -28.6       | 11.3                 | 0            | 79         | 94        | 12    |
| 500  | 5819   | 0            | -4.4  | 7.0                  | 1            | 36         | 151       | 2     | 500   | 5845        | 0            | -5.0  | 8.2                  | 0            | 39         | 186       | 2     | 500  | 5290   | 0            | -5.2        | 8.0                  | 0            | 35         | 171       | 8     |
| 700  | 3117   | 0            | 10.1  | 4.5                  | 1            | 61         | 254       | 5     | 700   | 3126        | 0            | 9.4   | 6.1                  | 0            | 73         | 251       | 7     | 700  | 3060   | 0            | 9.7         | 5.5                  | 0            | 82         | 222       | 12    |
| 850  | 1494   | 0            | 19.7  | 4.8                  | 1            | 66         | 216       | 4     | 850   | 1492        | 0            | 19.1  | 6.6                  | 0            | 75         | 232       | 5     | 850  | 1454   | 0            | 18.6        | 5.5                  | 0            | 86         | 203       | 11    |
| 1007   | * 27   |              | 26.2  | 2.6                  |              |            |           |       | 1006  | * 5         |              | 26.0  | 3.4                  |              |            |           |       | 1008   | * 3    |              | 27.3        | 4.6                  |              |            |           |       |

# UPPER AIR

# SEPTEMBER 2009

| LEVEL  |        | TEMPERATURE  |       |                      | VECTOR WIND  |            |           | LEVEL | TEMPERATURE   |        |              | VECTOR WIND |                      |              | LEVEL      | TEMPERATURE |       |          | VECTOR WIND |              |      |                      |              |            |           |       |  |
|--|--------|--------------|-------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-------------|-------|----------|-------------|--------------|------|----------------------|--------------|------------|-----------|-------|--|
| PRESSURE   | HEIGHT | MISSING DAYS | MEAN  | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION   | SPEED | PRESSURE | HEIGHT      | MISSING DAYS | MEAN | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |  |
| hPa  | gpm    |              | °C    | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o           | mps   | hPa      | gpm         |              | °C   | °C                   |              | %          | o         | mps   |  |
| <b>SW PACIFIC - MALAYSIA (SABAH AND SARAWAK TAWAU)</b><br>96481 SEP 2009 0416N 11750E OB 3 |        |              |       |                      |              |            |           |       | <b>SW PACIFIC - ISLANDS COCOS ISLAND AERO</b><br>96996 SEP 2009 1211S 09650E OB 3 |        |              |             |                      |              |            |             |       |          |             |              |      |                      |              |            |           |       |  |
| 030  | 23848  | 0            | -60.2 |                      | 9            | 92         | 108       | 18    | 030   |        |              |             |                      |              |            |             |       |          |             |              |      |                      |              |            |           |       |  |
| 050  | 20705  | 0            | -65.2 | 23.2                 | 9            | 53         | 190       | 9     | 050   |        |              |             |                      |              |            |             |       |          |             |              |      |                      |              |            |           |       |  |
| 100  | 16628  | 0            | -80.5 | 11.5                 | 9            | 93         | 78        | 13    | 100   | 16602  | 0            | -79.6       | 8.5                  |              | 8          | 91          | 99    | 10       |             |              |      |                      |              |            |           |       |  |
| 150  | 14203  | 0            | -66.7 | 12.8                 | 9            | 98         | 84        | 12    | 150   | 14248  | 0            | -67.9       | 8.3                  |              | 8          | 88          | 38    | 13       |             |              |      |                      |              |            |           |       |  |
| 200  | 12413  | 0            | -52.6 | 13.0                 | 9            | 99         | 61        | 19    | 200   | 12460  | 0            | -53.3       | 12.0                 |              | 8          | 75          | 44    | 6        |             |              |      |                      |              |            |           |       |  |
| 300  | 9698   | 0            | -30.0 | 6.4                  | 9            | 99         | 63        | 18    | 300   | 9713   | 0            | -30.2       | 27.2                 |              | 8          | 83          | 117   | 5        |             |              |      |                      |              |            |           |       |  |
| 500  | 5585   | 0            | -4.7  | 7.5                  | 9            | 85         | 135       | 3     | 500   | 5877   | 0            | -4.4        | 26.7                 |              | 8          | 42          | 129   | 2        |             |              |      |                      |              |            |           |       |  |
| 700  | 3126   | 0            | 9.8   | 5.3                  | 9            | 98         | 265       | 14    | 700   | 3150   | 0            | 11.0        | 30.8                 |              | 8          | 38          | 129   | 2        |             |              |      |                      |              |            |           |       |  |
| 850  | 1487   | 0            | 21.2  | 7.8                  | 9            | 98         | 225       | 9     | 850   | 1522   | 0            | 14.5        | 14.2                 |              | 7          | 91          | 100   | 6        |             |              |      |                      |              |            |           |       |  |
| 1006   | * 20   |              | 26.9  | 2.8                  |              |            |           |       | 1014  | * 4    |              | 24.8        | 4.5                  |              |            |             |       |          |             |              |      |                      |              |            |           |       |  |
|  |        |              |       |                      |              |            |           |       |   |        |              |             |                      |              |            |             |       |          |             |              |      |                      |              |            |           |       |  |
|  |        |              |       |                      |              |            |           |       |   |        |              |             |                      |              |            |             |       |          |             |              |      |                      |              |            |           |       |  |
|  |        |              |       |                      |              |            |           |       |   |        |              |             |                      |              |            |             |       |          |             |              |      |                      |              |            |           |       |  |

# UPPER AIR LATE REPORTS

| LEVEL   |        | TEMPERATURE  |      |                      | VECTOR WIND  |            |           | LEVEL |   | TEMPERATURE |              |      | VECTOR WIND          |              |            | LEVEL     |       | TEMPERATURE   |        |              | VECTOR WIND |                      |              |            |           |       |
|---|--------|--------------|------|----------------------|--------------|------------|-----------|-------|---|-------------|--------------|------|----------------------|--------------|------------|-----------|-------|---|--------|--------------|-------------|----------------------|--------------|------------|-----------|-------|
| PRESSURE  | HEIGHT | MISSING DAYS | MEAN | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT      | MISSING DAYS | MEAN | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED | PRESSURE  | HEIGHT | MISSING DAYS | MEAN        | DEW POINT DEPRESSION | MISSING DAYS | STEADINESS | DIRECTION | SPEED |
| hPa   | gpm    |              | °C   | °C                   |              | %          | o         | mps   | hPa   | gpm         |              | °C   | °C                   |              | %          | o         | mps   | hPa   | gpm    |              | °C          | °C                   |              | %          | o         | mps   |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 100%;"> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> </div> </div> |        |              |      |                      |              |            |           |       | <div style="display: flex; justify-content: space-between;"> <div style="width: 100%;"> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> </div> </div> |             |              |      |                      |              |            |           |       | <div style="display: flex; justify-content: space-between;"> <div style="width: 100%;"> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> </div> </div> |        |              |             |                      |              |            |           |       |

# STATION LIST RECENT DATA

|       |    |                             |                     |       |    |                       |                    |
|-------|----|-----------------------------|---------------------|-------|----|-----------------------|--------------------|
| 10501 | C  | AACHEN                      | GERMANY             | 10291 | C  | ANGERMUENDE           | GERMANY            |
| 06030 | C  | AALBORG                     | DENMARK AND FAROE I | 17130 | CT | ANKARA/CENTRAL        | TURKEY             |
| 04220 | C  | AASIAAT (EGEDESMINDE)       | GREENLAND           | 60360 | C  | ANNABA                | ALGERIA            |
| 47409 | C  | ABASHIRI                    | JAPAN               | 17300 | C  | ANTALYA               | TURKEY             |
| 07005 | C  | ABBEVILLE                   | FRANCE              | 47575 | C  | AOMORI                | JAPAN              |
| 03502 | C  | ABERPORTH                   | U KINGDOM           | 80084 | C  | APARTADO/LOS CEDROS   | COLOMBIA           |
| 41112 | C  | ABHA                        | SAUDI ARABIA        | 83096 | C  | ARACAJU               | BRAZIL             |
| 65578 | T  | ABIDJAN                     | COTE D'IVOIRE       | 84752 | C  | AREQUIPA              | PERU               |
| 41217 | C  | ABU DHABI INTER. AIRPORT    | U ARAB EMIRATES     | 22550 | CT | ARHANGEL'SK           | RUSSIAN FEDERATION |
| 76805 | C  | ACAPULCO, GRO.              | MEXICO              | 85406 | C  | ARICA                 | CHILE              |
| 17351 | C  | ADANA/BOLGE                 | TURKEY              | 10091 | C  | ARKONA                | GERMANY            |
| 63450 | C  | ADDIS ABABA-BOLE            | ETHIOPIA            | 62772 | C  | AROMA                 | SUDAN              |
| 94672 | CT | ADELAIDE AIRPORT            | AUSTRALIA           | 10460 | C  | ARTERN                | GERMANY            |
| 60620 | C  | ADRAR                       | ALGERIA             | 44288 | C  | ARVAIHEER             | MONGOLIA           |
| 76644 | C  | AEROP.INTERNACIONAL MERIDA, | MEXICO              | 60452 | C  | ARZEW                 | ALGERIA            |
| 17190 | C  | AFYON                       | TURKEY              | 47407 | C  | ASAHIKAWA             | JAPAN              |
| 61024 | C  | AGADEZ                      | NIGER               | 85175 | C  | ASCENCION DE GUARAYOS | BOLIVIA            |
| 42647 | CT | AHMADABAD                   | INDIA               | 38880 | C  | ASHGABAT KESHI        | TURKMENISTAN       |
| 37663 | C  | AHTY                        | RUSSIAN FEDERATION  | 33915 | C  | ASKANIYA-NOVA         | UKRAINE            |
| 33998 | C  | AI-PETRI                    | UKRAINE             | 62414 | CT | ASSWAN                | EGYPT              |
| 60415 | C  | AIN-BESSAM                  | ALGERIA             | 35188 | C  | ASTANA                | KAZAKHSTAN         |
| 61499 | C  | AIOUN EL ATROUSS            | MAURITANIA          | 86218 | C  | ASUNCION/AEROPUERTO   | PARAGUAY           |
| 07761 | CT | AJACCIO                     | FRANCE              | 65376 | C  | ATAKPAME              | TOGO               |
| 38178 | C  | AK-BAJTAL                   | UZBEKISTAN          | 35078 | C  | ATBASAR               | KAZAKHSTAN         |
| 47582 | CT | AKITA                       | JAPAN               | 17607 | T  | ATHALASSA             | CYPRUS             |
| 42933 | C  | AKOLA                       | INDIA               | 72219 | C  | ATLANTA/MUN., GA.     | USA                |
| 72521 | C  | AKRON/AKRON-CANTON REG. OH. | USA                 | 91925 | CT | ATUONA                | FRENCH POLY.       |
| 35229 | C  | AKTOBE                      | KAZAKHSTAN          | 35700 | C  | ATYRAU                | KAZAKHSTAN         |
| 04063 | C  | AKUREYRI                    | ICELAND             | 10852 | C  | AUGSBURG              | GERMANY            |
| 40420 | C  | AL-AHSA                     | SAUDI ARABIA        | 38334 | C  | AUL TURARA RYSKULOVA  | KAZAKHSTAN         |
| 08280 | C  | ALBACETE/LOS LLANOS         | SPAIN               | 72254 | C  | AUSTIN/CTY, TX.       | USA                |
| 03917 | C  | ALDERGROVE                  | U KINGDOM           | 31168 | CT | AYAN                  | RUSSIAN FEDERATION |
| 32061 | C  | ALEKSANDROVSK-SAHALINSKIJ   | RUSSIAN FEDERATION  | 87641 | C  | AZUL AERO             | ARGENTINA          |
| 60369 | C  | ALGER-PORT                  | ALGERIA             | 10542 | C  | BAD HERSFELD          | GERMANY            |
| 08359 | C  | ALICANTE                    | SPAIN               | 30554 | CT | BAGDARIN              | RUSSIAN FEDERATION |
| 42475 | C  | ALLAHABAD/BAMHRAULI         | INDIA               | 87750 | C  | BAHIA BLANCA AERO     | ARGENTINA          |
| 08487 | C  | ALMERIA/AEROPUERTO          | SPAIN               | 44265 | C  | BAITAG                | MONGOLIA           |
| 82965 | T  | ALTA FLORESTA (AEROPORTO)   | BRAZIL              | 23891 | C  | BAJKIT                | RUSSIAN FEDERATION |
| 26346 | C  | ALUKSNE                     | LATVIA              | 29328 | C  | BAKCHAR               | RUSSIAN FEDERATION |
| 94568 | C  | AMBERLEY AMO                | AUSTRALIA           | 30612 | C  | BALAGANSK             | RUSSIAN FEDERATION |
| 23022 | CT | AMDERMA                     | RUSSIAN FEDERATION  | 10675 | C  | BAMBERG               | GERMANY            |
| 42071 | C  | AMRITSAR                    | INDIA               | 71122 | C  | BANFF CS, ALTA        | CANADA             |
| 25563 | C  | ANADYR'                     | RUSSIAN FEDERATION  | 08181 | C  | BARCELONA/AEROPUERTO  | SPAIN              |
| 70273 | CT | ANCHORAGE/INT., AK          | USA                 | 07790 | C  | BASTIA                | FRANCE             |

# STATION LIST RECENT DATA

|       |    |                               |                     |       |    |                              |                    |
|-------|----|-------------------------------|---------------------|-------|----|------------------------------|--------------------|
| 37484 | C  | BATUMI                        | GEORGIA             | 25594 | C  | BUHTA PROVIDENJA             | RUSSIAN FEDERATION |
| 44275 | C  | BAYANBULAG                    | MONGOLIA            | 44239 | C  | BULGAN                       | MONGOLIA           |
| 60571 | C  | BECHAR                        | ALGERIA             | 08075 | C  | BURGOS/VILLAFRIA             | SPAIN              |
| 54511 | CT | BEIJING                       | CHINA               | 47159 | C  | BUSAN                        | REP KOREA          |
| 60402 | C  | BEJAIA-AEROPORT               | ALGERIA             | 15350 | C  | BUZAU                        | ROMANIA            |
| 43198 | C  | BELGAUM/SAMBRE                | INDIA               | 95916 | C  | CABRAMURRA SMHEA             | AUSTRALIA          |
| 40180 | C  | BEN-GURION INT. AIRPORT       | ISRAEL              | 08261 | C  | CACERES                      | SPAIN              |
| 13274 | C  | BEOGRAD                       | SERBIA AND MONTENEG | 07027 | C  | CAEN                         | FRANCE             |
| 10238 | T  | BERGEN                        | GERMANY             | 94287 | C  | CAIRNS AERO                  | AUSTRALIA          |
| 40179 | CT | BET DAGAN                     | ISRAEL              | 42807 | C  | CALCUTTA/ALIPORE             | INDIA              |
| 42971 | CT | BHUBANESHWAR                  | INDIA               | 16252 | C  | CAMPOBASSO                   | ITALY              |
| 12295 | C  | BIALYSTOK                     | POLAND              | 94926 | C  | CANBERRA AIRPORT             | AUSTRALIA          |
| 71844 | C  | BIG TROUT LAKE READAC, ONT    | CANADA              | 16153 | C  | CAPO MELE                    | ITALY              |
| 29939 | C  | BIJSK ZONAL'NAYA              | RUSSIAN FEDERATION  | 71818 | C  | CARTWRIGHT, NFLD             | CANADA             |
| 42165 | C  | BIKANER                       | INDIA               | 03967 | C  | CASEMENT AERODROME           | IRELAND            |
| 08025 | C  | BILBAO/SONDICA                | SPAIN               | 16459 | C  | CATANIA SIGONELLA            | ITALY              |
| 72515 | C  | BINGHAMTON/BROOME CO., NY.    | USA                 | 94653 | C  | CEDUNA AMO                   | AUSTRALIA          |
| 61401 | C  | BIR MOGHREIN                  | MAURITANIA          | 89056 | C  | CENTRO MET. ANTARTICO PDTE.  | CHILE              |
| 28138 | C  | BISER                         | RUSSIAN FEDERATION  | 16148 | C  | CERVIA                       | ITALY              |
| 64510 | C  | BITAM                         | GABON               | 38511 | C  | CHAGYL                       | TURKMENISTAN       |
| 14652 | C  | BJELASNICA                    | BOSNIA AND HERZEGOV | 10577 | C  | CHEMNITZ                     | GERMANY            |
| 01028 | CT | BJORNOYA                      | NORWAY              | 41768 | C  | CHHOR                        | PAKISTAN           |
| 28766 | C  | BLAGOVESHCHENKA               | KAZAKHSTAN          | 48327 | CT | CHIANG MAI                   | THAILAND           |
| 68442 | C  | BLOEMFONTEIN AIRPORT          | SOUTH AFRICA        | 60425 | C  | CHLEF                        | ALGERIA            |
| 74492 | C  | BLUE HILL OBS. MA.            | USA                 | 44259 | C  | CHOIBALSAN                   | MONGOLIA           |
| 65510 | C  | BOBO-DIOULASSO                | BURKINA FASO        | 93780 | C  | CHRISTCHURCH                 | N ZEALAND          |
| 01152 | CT | BODO                          | NORWAY              | 47014 | C  | CHUNGGANG                    | DPR KOREA          |
| 31439 | C  | BOGORODSKOE                   | RUSSIAN FEDERATION  | 96805 | C  | CILACAP                      | INDONESIA          |
| 65338 | C  | BOHICON                       | BENIN               | 72421 | C  | CINCINNATI/GREATER CINCINNAT | USA                |
| 10249 | C  | BOIZENBURG                    | GERMANY             | 96791 | C  | CIREBON/JATIWANGI            | INDONESIA          |
| 10161 | C  | BOLTENHAGEN                   | GERMANY             | 80444 | C  | CIUDAD BOLIVAR               | VENEZUELA          |
| 31253 | C  | BOMNAK                        | RUSSIAN FEDERATION  | 72360 | C  | CLAYTON/MUN., NM.            | USA                |
| 23884 | C  | BOR                           | RUSSIAN FEDERATION  | 07460 | C  | CLERMONT-FERRAND             | FRANCE             |
| 64605 | C  | BOSSEMBELE                    | CENTRAL AFRICAN REP | 15120 | CT | CLUJ-NAPOCA                  | ROMANIA            |
| 07255 | C  | BOURGES                       | FRANCE              | 71358 | C  | CLYDE RIVER CLIMATE, NU      | CANADA             |
| 10348 | C  | BRAUNSCHWEIG                  | GERMANY             | 76741 | C  | COATZACOALCOS, VER.          | MEXICO             |
| 07110 | C  | BREST                         | FRANCE              | 94711 | CT | COBAR MO                     | AUSTRALIA          |
| 94578 | CT | BRISBANE AERO                 | AUSTRALIA           | 85223 | C  | COCHABAMBA                   | BOLIVIA            |
| 11723 | C  | BRNO/TURANY                   | CZECH REP           | 94791 | C  | COFFS HARBOUR MO             | AUSTRALIA          |
| 10453 | C  | BROCKEN                       | GERMANY             | 08548 | C  | COIMBRA/CERNACHE             | PORTUGAL           |
| 96315 | C  | BRUNEI AIRPORT                | BRUNEI DARUSSALAM   | 70316 | CT | COLD BAY, AK                 | USA                |
| 80094 | C  | BUCARAMANGA/PALONEGRO         | COLOMBIA            | 76848 | C  | COMITAN, CHIS.               | MEXICO             |
| 12843 | CT | BUDAPEST/PESTSZENTLORINC      | HUNGARY             | 85682 | C  | CONCEPCION                   | CHILE              |
| 72528 | CT | BUFFALO/GREATER BUF. INT., NY | USA                 | 03955 | C  | CORK AIRPORT                 | IRELAND            |

# STATION LIST RECENT DATA

|       |    |                           |                    |       |    |                            |                    |
|-------|----|---------------------------|--------------------|-------|----|----------------------------|--------------------|
| 10496 | C  | COTTBUS                   | GERMANY            | 60670 | C  | DJANET                     | ALGERIA            |
| 85864 | C  | COYHAIQUE                 | CHILE              | 60535 | C  | DJELFA                     | ALGERIA            |
| 16480 | C  | COZZO SPADARO             | ITALY              | 34504 | C  | DNIPROPETROVS'K            | UKRAINE            |
| 15450 | C  | CRAIOVA                   | ROMANIA            | 16033 | C  | DOBBIACO                   | ITALY              |
| 80097 | C  | CUCUTA/CAMILO DAZA        | COLOMBIA           | 72451 | C  | DODGE CITY/MUN., KS.       | USA                |
| 08231 | C  | CUENCA                    | SPAIN              | 41170 | C  | DOHA INTERNATIONAL AIRPORT | QATAR              |
| 83361 | C  | CUIABA                    | BRAZIL             | 87648 | C  | DOLORES AERO               | ARGENTINA          |
| 28704 | C  | CULPANOVO                 | RUSSIAN FEDERATION | 34519 | C  | DONETS'K                   | UKRAINE            |
| 80420 | C  | CUMANA                    | VENEZUELA          | 65501 | C  | DORI                       | BURKINA FASO       |
| 83840 | T  | CURITIBA (AEROPORTO)      | BRAZIL             | 52836 | C  | DOULAN                     | CHINA              |
| 10131 | C  | CUXHAVEN                  | GERMANY            | 10488 | C  | DRESDEN-KLOTZSCHE          | GERMANY            |
| 84686 | C  | CUZCO                     | PERU               | 41515 | C  | DROSH                      | PAKISTAN           |
| 47133 | C  | DAEJEON                   | REP KOREA          | 03969 | C  | DUBLIN AIRPORT             | IRELAND            |
| 98325 | C  | DAGUPAN                   | PHILIPPINES        | 23074 | C  | DUDINKA                    | RUSSIAN FEDERATION |
| 62467 | C  | DAHAB                     | EGYPT              | 10400 | C  | DUESSELDORF                | GERMANY            |
| 61641 | CT | DAKAR/YOFF                | SENEGAL            | 72745 | C  | DULUTH/INT., MN.           | USA                |
| 31873 | C  | DAL'NERECHENSK            | RUSSIAN FEDERATION | 89642 | CT | DUMONT D'URVILLE           | FRANCE             |
| 40080 | C  | DAMASCUS INT. AIRPORT     | SYRIAN ARAB REP    | 68588 | C  | DURBAN INTNL. AIRPORT      | SOUTH AFRICA       |
| 71185 | C  | DANIELS HARBOUR,          | CANADA             | 38836 | C  | DUSHANBE                   | TAJKISTAN          |
| 65351 | C  | DAPAON                    | TOGO               | 42731 | C  | DWARKA                     | INDIA              |
| 38545 | C  | DARGANATA                 | TURKMENISTAN       | 03091 | C  | DYCE                       | U KINGDOM          |
| 44256 | C  | DASHBALBAR                | MONGOLIA           | 21908 | C  | DZALINDA                   | RUSSIAN FEDERATION |
| 26544 | C  | DAUGAVPILS                | LATVIA             | 35217 | C  | DZHAMBEJTY                 | KAZAKHSTAN         |
| 89571 | CT | DAVIS                     | AUSTRALIA          | 68858 | C  | EAST LONDON                | SOUTH AFRICA       |
| 71966 | C  | DAWSON, YT                | CANADA             | 94983 | C  | EDDYSTONE POINT            | AUSTRALIA          |
| 72429 | C  | DAYTON/. COX, OH.         | USA                | 17050 | C  | EDIRNE                     | TURKEY             |
| 06235 | C  | DE KOOY                   | NETHERLANDS        | 71590 | C  | EDMUNDSTON, NB             | CANADA             |
| 12882 | C  | DEBRECEN                  | HUNGARY            | 06280 | C  | EELDE/GRONINGEN AP EELDE   | NETHERLANDS        |
| 16546 | C  | DECIMOMANNU               | ITALY              | 25378 | C  | EGVEKINOT                  | RUSSIAN FEDERATION |
| 65505 | C  | DEDOUGOU                  | BURKINA FASO       | 40199 | C  | EILAT                      | ISRAEL             |
| 40045 | C  | DEIR EZZOR                | SYRIAN ARAB REP    | 31707 | C  | EKATERINO-NIKOL'SKOE       | RUSSIAN FEDERATION |
| 60387 | C  | DELLYS                    | ALGERIA            | 38388 | C  | EKEZHE                     | TURKMENISTAN       |
| 95869 | C  | DENILQUIN AIRPORT AWS     | AUSTRALIA          | 31329 | C  | EKIMCHAN                   | RUSSIAN FEDERATION |
| 37470 | C  | DERBENT                   | RUSSIAN FEDERATION | 62337 | C  | EL ARISH                   | EGYPT              |
| 72546 | C  | DES MOINES/MUN., IA.      | USA                | 60550 | C  | EL-BAYADH                  | ALGERIA            |
| 72537 | C  | DETROIT/METROPOLITAN, MI. | USA                | 27648 | C  | ELAT'MA                    | RUSSIAN FEDERATION |
| 40416 | C  | DHAHRAN                   | SAUDI ARABIA       | 12160 | C  | ELBLAG                     | POLAND             |
| 42404 | C  | DHUBRI                    | INDIA              | 62453 | C  | ELHASANA                   | EGYPT              |
| 42314 | C  | DIBRUGARH /MOHANBARI      | INDIA              | 72486 | C  | ELY/YELLAND, NV.           | USA                |
| 61085 | C  | DIFFA                     | NIGER              | 07591 | C  | EMBRUN                     | FRANCE             |
| 07280 | C  | DIJON                     | FRANCE             | 10200 | C  | EMDEN-FLUGPLATZ            | GERMANY            |
| 61666 | C  | DIOURBEL                  | SENEGAL            | 29572 | T  | EMEL'JANOVO                | RUSSIAN FEDERATION |
| 63471 | C  | DIREDAWA                  | ETHIOPIA           | 76256 | C  | EMPALME, SON.              | MEXICO             |
| 17280 | CT | DIYARBAKIR                | TURKEY             | 62781 | C  | EN NAHUD                   | SUDAN              |



# STATION LIST RECENT DATA

|       |    |                        |                    |       |    |                             |                     |
|-------|----|------------------------|--------------------|-------|----|-----------------------------|---------------------|
| 25356 | C  | EN' MUVEEM             | RUSSIAN FEDERATION | 15310 | C  | GALATI                      | ROMANIA             |
| 86297 | C  | ENCARNACION            | PARAGUAY           | 37735 | C  | GANDJA                      | AZERBAIJAN          |
| 29263 | C  | ENISEJSK               | RUSSIAN FEDERATION | 65522 | C  | GAOUA                       | BURKINA FASO        |
| 71923 | C  | ENNADAI LAKE (AUT), NU | CANADA             | 10359 | C  | GARDELEGEN                  | GERMANY             |
| 24817 | C  | ERBOGACEN              | RUSSIAN FEDERATION | 40405 | C  | GASSIM                      | SAUDI ARABIA        |
| 44237 | C  | ERDENEMANDAL           | MONGOLIA           | 61099 | C  | GAYA                        | NIGER               |
| 53068 | C  | ERENHOT                | CHINA              | 26157 | C  | GDOV                        | RUSSIAN FEDERATION  |
| 10554 | C  | ERFURT-BINDERSLEBEN    | GERMANY            | 62752 | C  | GEDAREF                     | SUDAN               |
| 34186 | C  | ERSHOV                 | RUSSIAN FEDERATION | 10628 | C  | GEISENHEIM                  | GERMANY             |
| 36307 | C  | ERZIN                  | RUSSIAN FEDERATION | 06700 | C  | GENEVE-COINTRIN             | SWITZERLAND & LIECH |
| 38750 | C  | ESENGYLY               | TURKMENISTAN       | 68828 | C  | GEORGE AIRPORT              | SOUTH AFRICA        |
| 40800 | C  | ESFAHAN                | IRAN, ISLAMIC REP  | 10567 | C  | GERA-LEUMNITZ               | GERMANY             |
| 35067 | C  | ESIL'                  | KAZAKHSTAN         | 60517 | C  | GHAZAOUET                   | ALGERIA             |
| 03162 | C  | ESKDALEMUIR            | U KINGDOM          | 40296 | C  | GHOR SAFI                   | JORDAN              |
| 94638 | CT | ESPERANCE              | AUSTRALIA          | 08495 | C  | GIBRALTAR                   | GIBRALTAR           |
| 87803 | C  | ESQUEL AERO            | ARGENTINA          | 10532 | C  | GIESSEN                     | GERMANY             |
| 10410 | CT | ESSEN-BREDENEY         | GERMANY            | 34740 | C  | GIGANT                      | RUSSIAN FEDERATION  |
| 71862 | C  | ESTEVAN A, SASK        | CANADA             | 94461 | CT | GILES METEOROLOGICAL OFFICE | AUSTRALIA           |
| 94647 | CT | EUCLA                  | AUSTRALIA          | 17034 | C  | GIRESUN                     | TURKEY              |
| 71917 | C  | EUREKA, NU             | CANADA             | 93292 | C  | GISBORNE AERODROME AWS      | N ZEALAND           |
| 72432 | C  | EVANSVILLE/REG., IN.   | USA                | 41140 | C  | GIZAN                       | SAUDI ARABIA        |
| 37747 | C  | EVLAKH AIRPORT         | AZERBAIJAN         | 71363 | C  | GJOA HAVEN CLIMATE, NU      | CANADA              |
| 08558 | C  | EVORA/C. COORD         | PORTUGAL           | 72768 | C  | GLASGOW/INT., MT.           | USA                 |
| 87576 | CT | EZEIZA AERO            | ARGENTINA          | 83264 | C  | GLEBA CELESTE               | BRAZIL              |
| 65507 | C  | FADA N'GOURMA          | BURKINA FASO       | 20292 | C  | GMO IM.E.K. FEDOROVA        | RUSSIAN FEDERATION  |
| 70261 | C  | FAIRBANKS/INT., AK     | USA                | 43192 | CT | GOA/PANJIM                  | INDIA               |
| 62423 | CT | FARAFRA                | EGYPT              | 10444 | C  | GOETTINGEN                  | GERMANY             |
| 10908 | C  | FELDBERG/SCHWARZWALD   | GERMANY            | 83423 | C  | GOIANIA                     | BRAZIL              |
| 38618 | C  | FERGANA                | UZBEKISTAN         | 33041 | C  | GOMEL                       | BELARUS             |
| 11155 | C  | FEUERKOGEL             | AUSTRIA            | 63331 | C  | GONDAR                      | ETHIOPIA            |
| 10578 | C  | FICHELBERG             | GERMANY            | 71816 | CT | GOOSE A, NFLD               | CANADA              |
| 72637 | C  | FLINT/BISHOP, MI.      | USA                | 71733 | CT | GORE BAY A, ONT             | CANADA              |
| 08501 | C  | FLORES (ACORES)        | PORTUGAL           | 07535 | C  | GOURDON                     | FRANCE              |
| 01238 | C  | FOKSTUA II             | NORWAY             | 94150 | CT | GOVE AIRPORT                | AUSTRALIA           |
| 71585 | C  | FORT MCMURRAY CS, ALTA | CANADA             | 08419 | C  | GRANADA/AEROPUERTO          | SPAIN               |
| 89065 | C  | FOSSIL BLUFF           | U KINGDOM          | 10184 | CT | GREIFSWALD                  | GERMANY             |
| 10637 | C  | FRANKFURT/M-FLUGHAFEN  | GERMANY            | 95971 | C  | GROVE RESEARCH STATION      | AUSTRALIA           |
| 10803 | C  | FREIBURG               | GERMANY            | 88903 | C  | GRYTVIKEN,                  | ISLANDS             |
| 16179 | C  | FRONTONE               | ITALY              | 76577 | C  | GUANAJUATO, GTO.            | MEXICO              |
| 10895 | C  | FUERSTENZELL           | GERMANY            | 60403 | C  | GUELMA                      | ALGERIA             |
| 47807 | CT | FUKUOKA                | JAPAN              | 80423 | C  | GUIRIA                      | VENEZUELA           |
| 08522 | CT | FUNCHAL                | MADEIRA            | 02128 | C  | GUNNARN                     | SWEDEN              |
| 60765 | C  | GABES                  | TUNISIA            | 40360 | C  | GURIAT                      | SAUDI ARABIA        |
| 60745 | C  | GAFSA                  | TUNISIA            | 78894 | C  | GUSTAVIA,                   | GUADELOUPE          |

# STATION LIST RECENT DATA

|       |    |                              |                    |       |    |                              |                    |
|-------|----|------------------------------|--------------------|-------|----|------------------------------|--------------------|
| 42410 | C  | GUWAHATI                     | INDIA              | 08373 | C  | IBIZA/ES CODOLA              | SPAIN              |
| 38763 | C  | GYZYLARBAT                   | TURKMENISTAN       | 23274 | C  | IGARKA                       | RUSSIAN FEDERATION |
| 40250 | C  | H-4 'IRWAISHED'              | JORDAN             | 87097 | C  | IGUAZU AERO                  | ARGENTINA          |
| 31736 | T  | HABAROVSK                    | RUSSIAN FEDERATION | 25248 | C  | ILIRNEJ                      | RUSSIAN FEDERATION |
| 47678 | CT | HACHIJOJIMA                  | JAPAN              | 60640 | C  | ILLIZI                       | ALGERIA            |
| 47069 | C  | HAEJU                        | DPR KOREA          | 98637 | C  | ILOILO                       | PHILIPPINES        |
| 40377 | C  | HAJR AL-BATIN                | SAUDI ARABIA       | 31416 | C  | IM POLINY OSIPENKO           | RUSSIAN FEDERATION |
| 40394 | CT | HAIL                         | SAUDI ARABIA       | 20667 | C  | IM. M.V. POPOVA              | RUSSIAN FEDERATION |
| 17285 | C  | HAKKARI                      | TURKEY             | 60630 | C  | IN-SALAH                     | ALGERIA            |
| 71081 | T  | HALL BEACH UA, NU            | CANADA             | 72438 | C  | INDIANAPOLIS/I.-MUN/WEIR COO | USA                |
| 10147 | C  | HAMBURG-FUHLBUETTEL          | GERMANY            | 67323 | C  | INHAMBANE                    | MOZAMBIQUE         |
| 10338 | C  | HANNOVER                     | GERMANY            | 11120 | C  | INNSBRUCK-FLUGHAFEN          | AUSTRIA            |
| 02196 | C  | HAPARANDA                    | SWEDEN             | 72747 | CT | INT.FALLS/FALLS INT. MN.     | USA                |
| 71350 | C  | HARRINGTON CDA CS, PEI       | CANADA             | 71364 | C  | INUVIK CLIMATE, NWT          | CANADA             |
| 60563 | C  | HASSIR'MEL                   | ALGERIA            | 93844 | CT | INVERCARGILL AERODROME       | N ZEALAND          |
| 20891 | CT | HATANGA                      | RUSSIAN FEDERATION | 80370 | C  | IPIALES/SAN LUIS             | COLOMBIA           |
| 71361 | C  | HAY RIVER CLIMATE, NWT       | CANADA             | 71321 | C  | IQALUIT CLIMATE, NU          | CANADA             |
| 02974 | C  | HELSINKI-VANTAA              | FINLAND            | 85418 | C  | IQUIQUE                      | CHILE              |
| 16754 | C  | HERAKLION (AIRPORT)          | GREECE             | 83836 | C  | IRATI                        | BRAZIL             |
| 60001 | C  | HIERRO/AEROPUERTO            | SPAIN              | 30710 | C  | IRKUTSK                      | RUSSIAN FEDERATION |
| 71066 | C  | HIGH LEVEL A, ALTA           | CANADA             | 29807 | C  | IRTYSHSK                     | KAZAKHSTAN         |
| 91753 | C  | HIHIFO (ILE WALLIS)          | DETACHED ISLANDS   | 71074 | C  | ISACHSEN (AUT), NU           | CANADA             |
| 30844 | C  | HILOK                        | RUSSIAN FEDERATION | 28573 | C  | ISHIM                        | RUSSIAN FEDERATION |
| 98755 | C  | HINATUAN                     | PHILIPPINES        | 85469 | CT | ISLA DE PASCUA               | CHILE              |
| 94975 | CT | HOBART AIRPORT               | AUSTRALIA          | 17240 | CT | ISPARTA                      | TURKEY             |
| 10685 | C  | HOF                          | GERMANY            | 17062 | CT | ISTANBUL/GOZTEPE             | TURKEY             |
| 10962 | C  | HOHENPEISSENBERG             | GERMANY            | 04339 | C  | ITTOQQORTOORMIIT (SCORESBYSU | GREENLAND          |
| 93615 | C  | HOKITIKA AERODROME AWS       | N ZEALAND          | 10142 | C  | ITZEHOE                      | GERMANY            |
| 71029 | C  | HOLMAN CS, NWT               | CANADA             | 33526 | C  | IVANO-FRANKIVS'K             | UKRAINE            |
| 61240 | C  | HOMBORI                      | MALI               | 23921 | CT | IVDEL'                       | RUSSIAN FEDERATION |
| 91182 | C  | HONOLULU, OAHU, HAWAII       | USA                | 83704 | C  | IVINHEMA                     | BRAZIL             |
| 92072 | C  | HOSKINS W.O.                 | PAPUA N GUINEA     | 60010 | C  | IZANA                        | SPAIN              |
| 51828 | C  | HOTAN                        | CHINA              | 34415 | C  | IZIUM                        | UKRAINE            |
| 72243 | C  | HOUSTON/INTERCONTINENTAL, TX | USA                | 33889 | C  | IZMAIL                       | UKRAINE            |
| 44218 | C  | HOVD                         | MONGOLIA           | 84088 | C  | IZOBAMBA                     | ECUADOR            |
| 08383 | C  | HUELVA                       | SPAIN              | 47800 | CT | IZUHARA                      | JAPAN              |
| 44285 | C  | HUJIRT                       | MONGOLIA           | 41715 | C  | JACOBABAD                    | PAKISTAN           |
| 72425 | C  | HUNTINGTON, WV.              | USA                | 08417 | C  | JAEN                         | SPAIN              |
| 03862 | C  | HURN                         | U KINGDOM          | 43041 | C  | JAGDALPUR                    | INDIA              |
| 44232 | C  | HUTAG                        | MONGOLIA           | 24959 | CT | JAKUTSK                      | RUSSIAN FEDERATION |
| 43128 | CT | HYDERABAD AIRPORT            | INDIA              | 76687 | C  | JALAPA, VER.                 | MEXICO             |
| 47016 | C  | HYESAN                       | DPR KOREA          | 01001 | CT | JAN MAYEN                    | NORWAY             |
| 15090 | C  | IASI                         | ROMANIA            | 97690 | C  | JAYAPURA/SENTANI             | INDONESIA          |
| 80214 | C  | IBAGUE/PERALES               | COLOMBIA           | 41024 | CT | JEDDAH (KING ABDUL AZIZ INT. | SAUDI ARABIA       |

# STATION LIST RECENT DATA

|       |    |                              |                     |       |    |                             |                     |
|-------|----|------------------------------|---------------------|-------|----|-----------------------------|---------------------|
| 47184 | C  | JEJU                         | REP KOREA           | 72201 | C  | KEY WEST/INT., FL           | USA                 |
| 60725 | C  | JENDOUBA                     | TUNISIA             | 41114 | C  | KHAMIS MUSHAIT              | SAUDI ARABIA        |
| 08451 | C  | JEREZ DE LA FRONTERA AEROPUE | SPAIN               | 33902 | C  | KHERSON                     | UKRAINE             |
| 41598 | C  | JHELMUM                      | PAKISTAN            | 33429 | C  | KHMEL'NYTS'KYI              | UKRAINE             |
| 60351 | C  | JIJEL-ACHOUAT                | ALGERIA             | 38599 | C  | KHUDJANT                    | TAJKISTAN           |
| 63402 | C  | JIMMA                        | ETHIOPIA            | 33345 | C  | KIEV                        | UKRAINE             |
| 52533 | C  | JIUQUAN                      | CHINA               | 61498 | C  | KIFFA                       | MAURITANIA          |
| 41756 | C  | JIWANI                       | PAKISTAN            | 02801 | C  | KILPISJARVI                 | FINLAND             |
| 42339 | CT | JODHPUR                      | INDIA               | 47025 | C  | KIMCHAEK                    | DPR KOREA           |
| 02929 | C  | JOENSUU                      | FINLAND             | 40437 | CT | KING KHALED INT. AIRPORT    | SAUDI ARABIA        |
| 02963 | CT | JOKIOINEN                    | FINLAND             | 28009 | C  | KIRS                        | RUSSIAN FEDERATION  |
| 02550 | C  | JONKOPING/AXAMO              | SWEDEN              | 24606 | C  | KISLOKAN                    | RUSSIAN FEDERATION  |
| 78762 | C  | JUAN SANTAMARIA INT. AIRPORT | COSTA RICA          | 61270 | C  | KITA                        | MALI                |
| 62941 | C  | JUBA                         | SUDAN               | 30925 | C  | KJAHTA                      | RUSSIAN FEDERATION  |
| 87046 | C  | JUJUY AERO                   | ARGENTINA           | 21921 | C  | KJUSJUR                     | RUSSIAN FEDERATION  |
| 78866 | CT | JULIANA AIRPORT,             | NETHERLANDS ANTILLE | 11231 | C  | KLAGENFURT-FLUGHAFEN        | AUSTRIA             |
| 87548 | C  | JUNIN AERO                   | ARGENTINA           | 32389 | C  | KLJUCHI                     | RUSSIAN FEDERATION  |
| 32150 | CT | JUZHNO-SAHALINSK             | RUSSIAN FEDERATION  | 72326 | C  | KNOXVILLE/MUN., TN.         | USA                 |
| 02935 | CT | JYVASKYLA                    | FINLAND             | 11487 | C  | KOCELOVICE                  | CZECH REP           |
| 40417 | C  | K.F.I.A. (KING FAHAD INT. AI | SAUDI ARABIA        | 06186 | C  | KOEBENHAVN/LANDBOHOEJSKOLEN | DENMARK AND FAROE I |
| 40948 | C  | KABUL AIRPORT                | AFGHANISTAN,ISLAMIC | 28879 | C  | KOKSHETAY                   | KAZAKHSTAN          |
| 62810 | C  | KADOGLLI                     | SUDAN               | 29231 | CT | KOLPASEVO                   | RUSSIAN FEDERATION  |
| 61492 | C  | KAEDI                        | MAURITANIA          | 33883 | C  | KOMRAT                      | REP MOLDOVA         |
| 47827 | CT | KAGOSHIMA                    | JAPAN               | 10929 | C  | KONSTANZ                    | GERMANY             |
| 10427 | C  | KAHLER ASTEN                 | GERMANY             | 25503 | C  | KORKODON                    | RUSSIAN FEDERATION  |
| 93678 | C  | KAIKOURA                     | N ZEALAND           | 27333 | C  | KOSTROMA                    | RUSSIAN FEDERATION  |
| 02897 | C  | KAJAANI                      | FINLAND             | 42452 | C  | KOTA AERODROME              | INDIA               |
| 16726 | C  | KALAMATA (AIRPORT)           | GREECE              | 61293 | C  | KOUTIALA                    | MALI                |
| 40001 | C  | KAMISHLI                     | SYRIAN ARAB REP     | 45004 | CT | KOWLOON                     | HONG KONG, CHINA    |
| 40990 | C  | KANDAHAR AIRPORT             | AFGHANISTAN,ISLAMIC | 43314 | C  | KOZHICODE                   | INDIA               |
| 61679 | C  | KAOLACK                      | SENEGAL             | 12566 | C  | KRAKOW                      | POLAND              |
| 71299 | C  | KAPUSKASING CDA ON, ONT      | CANADA              | 14008 | C  | KREDARICA                   | SLOVENIA            |
| 35394 | C  | KARAGANDA                    | KAZAKHSTAN          | 33791 | C  | KRYVYI RIH                  | UKRAINE             |
| 51709 | C  | KASHI                        | CHINA               | 60514 | C  | KSAR CHELLALA               | ALGERIA             |
| 26629 | C  | KAUNAS                       | LITHUANIA           | 48647 | C  | KUALA LUMPUR/SUBANG         | MALAYSIA            |
| 92076 | C  | KAVIENG W.O.                 | PAPUA N GUINEA      | 96413 | CT | KUCHING                     | MALAYSIA            |
| 61257 | C  | KAYES                        | MALI                | 38343 | C  | KULAN                       | KAZAKHSTAN          |
| 27595 | C  | KAZAN'                       | RUSSIAN FEDERATION  | 65442 | C  | KUMASI                      | GHANA               |
| 61699 | C  | KEDOUGOU                     | SENEGAL             | 56778 | CT | KUNMING                     | CHINA               |
| 04018 | CT | KEFLAVIKURFLUGVOLLUR         | ICELAND             | 97372 | C  | KUPANG/ELTARI               | INDONESIA           |
| 10946 | C  | KEMPTEN                      | GERMANY             | 15730 | C  | KURDJALI                    | BULGARIA            |
| 97146 | C  | KENDARI/WOLTER MONGINSIDI    | INDONESIA           | 47418 | C  | KUSHIRO                     | JAPAN               |
| 16641 | C  | KERKYRA (AIRPORT)            | GREECE              | 17155 | C  | KUTAHYA                     | TURKEY              |
| 02805 | C  | KEVO                         | FINLAND             | 71906 | CT | KUUIJUAQ A, QUE             | CANADA              |

# STATION LIST RECENT DATA

|       |    |                              |                    |       |    |                            |                     |
|-------|----|------------------------------|--------------------|-------|----|----------------------------|---------------------|
| 02120 | C  | KVIKKJOKK-ARRENJARKA         | SWEDEN             | 94995 | CT | LORD HOWE ISLAND AERO      | AUSTRALIA           |
| 91366 | C  | KWAJALEIN/BUCHOLZ AAF, MARSH | USA                | 72295 | C  | LOS ANGELES /INT.,         | USA                 |
| 30949 | C  | KYRA                         | RUSSIAN FEDERATION | 72423 | C  | LOUISVILLE/STANDIFORD, KY. | USA                 |
| 36096 | C  | KYZYL                        | RUSSIAN FEDERATION | 95964 | C  | LOW HEAD                   | AUSTRALIA           |
| 33393 | C  | L'VIV                        | UKRAINE            | 48930 | C  | LUANG-PRABANG              | LAO PDR             |
| 08001 | CT | LA CORUNA                    | SPAIN              | 33377 | C  | LUBNY                      | UKRAINE             |
| 87534 | C  | LABOULAYE AERO               | ARGENTINA          | 42369 | T  | LUCKNOW/AMAUSI             | INDIA               |
| 60545 | C  | LAGHOUAT                     | ALGERIA            | 10418 | C  | LUEDENSCHEID               | GERMANY             |
| 10805 | C  | LAHR                         | GERMANY            | 06770 | C  | LUGANO                     | SWITZERLAND & LIECH |
| 72240 | C  | LAKE CHARLES/MUN.,           | USA                | 34523 | C  | LUHANS'K                   | UKRAINE             |
| 72576 | C  | LANDER/HUNT, WY.             | USA                | 16597 | C  | LUQA                       | MALTA               |
| 98223 | C  | LAOAG                        | PHILIPPINES        | 06590 | C  | LUXEMBOURG/LUXEMBOURG      | LUXEMBOURG          |
| 16648 | C  | LARISSA (AIRPORT)            | GREECE             | 03740 | C  | LYNEHAM                    | U KINGDOM           |
| 60030 | C  | LAS PALMAS DE GRAN CANARIA/G | SPAIN              | 60467 | C  | M'SILA                     | ALGERIA             |
| 40022 | C  | LATTAKIA                     | SYRIAN ARAB REP    | 40310 | C  | MA'AN                      | JORDAN              |
| 94865 | C  | LAVERTON RAAF                | AUSTRALIA          | 44294 | C  | MAANTI                     | MONGOLIA            |
| 13577 | C  | LAZAROPOLE                   | MACEDONIA          | 43185 | C  | MACHILIPATNAM/FRANCHPET    | INDIA               |
| 07471 | C  | LE PUY                       | FRANCE             | 08221 | CT | MADRID/BARAJAS             | SPAIN               |
| 94302 | CT | LEARMONTH AIRPORT            | AUSTRALIA          | 47624 | C  | MAEBASHI                   | JAPAN               |
| 12120 | C  | LEBA                         | POLAND             | 40265 | C  | MAFRAQ                     | JORDAN              |
| 03257 | C  | LEEMING                      | U KINGDOM          | 61091 | C  | MAGARIA                    | NIGER               |
| 12374 | T  | LEGIONOWO                    | POLAND             | 37472 | C  | MAHACHKALA                 | RUSSIAN FEDERATION  |
| 10449 | C  | LEINEFELDE                   | GERMANY            | 47750 | C  | MAIZURU                    | JAPAN               |
| 36208 | C  | LENINOGORSK                  | KAZAKHSTAN         | 91376 | C  | MAJURO/MARSHALL IS. INTNL. | USA                 |
| 08055 | C  | LEON/VIRGEN DEL CAMINO       | SPAIN              | 28666 | C  | MAKUSINO                   | RUSSIAN FEDERATION  |
| 03005 | CT | LERWICK                      | U KINGDOM          | 48665 | C  | MALACCA                    | MALAYSIA            |
| 80398 | C  | LETICIA/VASQUEZ COBO         | COLOMBIA           | 30252 | C  | MAMAKAN                    | RUSSIAN FEDERATION  |
| 28064 | C  | LEUSI                        | RUSSIAN FEDERATION | 03797 | C  | MANSTON                    | U KINGDOM           |
| 72422 | C  | LEXINGTON/BLUE GRASS, KY.    | USA                | 67341 | C  | MAPUTO/MAVALANE            | MOZAMBIQUE          |
| 55591 | CT | LHASA                        | CHINA              | 61080 | C  | MARADI                     | NIGER               |
| 11603 | C  | LIBEREC                      | CZECH REP          | 40745 | C  | MASHHAD                    | IRAN, ISLAMIC REP   |
| 10591 | C  | LICHTENHAIN-MITTELNDORF      | GERMANY            | 44314 | C  | MATAD                      | MONGOLIA            |
| 26406 | C  | LIEPAJA                      | LATVIA             | 89564 | C  | MAWSON                     | AUSTRALIA           |
| 91165 | C  | LIHUE, KAUAI, HAWAII         | USA                | 70231 | C  | MCGRATH, AK                | USA                 |
| 07015 | C  | LILLE                        | FRANCE             | 60549 | C  | MECHERIA                   | ALGERIA             |
| 07434 | C  | LIMOGES                      | FRANCE             | 60437 | C  | MEDEA                      | ALGERIA             |
| 10393 | CT | LINDENBERG                   | GERMANY            | 94430 | C  | MEEKATHARRA AIRPORT        | AUSTRALIA           |
| 08535 | C  | LISBOA/GEOF                  | PORTUGAL           | 10548 | CT | MEININGEN                  | GERMANY             |
| 67743 | C  | LIVINGSTONE                  | ZAMBIA             | 60150 | C  | MEKNES                     | MOROCCO             |
| 14015 | C  | LJUBLJANA/BEZIGRAD           | SLOVENIA           | 60338 | C  | MELILLA                    | SPAIN               |
| 08084 | C  | LOGRONO/AGONCILLO            | SPAIN              | 08314 | C  | MENORCA/MAHON              | SPAIN               |
| 84270 | C  | LOJA/LA ARGELIA              | ECUADOR            | 17340 | C  | MERSIN                     | TURKEY              |
| 65387 | C  | LOME                         | TOGO               | 16420 | C  | MESSINA                    | ITALY               |
| 83766 | C  | LONDRINA                     | BRAZIL             | 16734 | C  | METHONI                    | GREECE              |

# STATION LIST RECENT DATA

|       |    |                              |                     |       |    |                              |                     |
|-------|----|------------------------------|---------------------|-------|----|------------------------------|---------------------|
| 76680 | C  | MEXICO (CENTRAL),            | MEXICO              | 72327 | CT | NASHVILLE/METROPOLITAN, TN.  | USA                 |
| 22471 | C  | MEZEN'                       | RUSSIAN FEDERATION  | 71813 | C  | NATASHQUAN A, QUE            | CANADA              |
| 72202 | C  | MIAMI, FL                    | USA                 | 91683 | C  | NAUSORI                      | FIJI                |
| 10648 | C  | MICHELSTADT-VIELBRUNN        | GERMANY             | 08215 | C  | NAVACERRADA                  | SPAIN               |
| 60195 | C  | MIDELT                       | MOROCCO             | 41749 | C  | NAWABSHAH                    | PAKISTAN            |
| 11464 | C  | MILESOVKA                    | CZECH REP           | 37936 | C  | NAXCIVAN                     | AZERBAIJAN          |
| 26850 | C  | MINSK                        | BELARUS             | 47909 | CT | NAZE                         | JAPAN               |
| 89592 | CT | MIRNYJ                       | ANTARCTICA          | 64700 | C  | NDJAMENA                     | CHAD                |
| 72773 | C  | MISSOULA / JOHNSON-BELL FIEL | USA                 | 80315 | C  | NEIVA/BENITO SALAS           | COLOMBIA            |
| 47830 | C  | MIYAZAKI                     | JAPAN               | 31152 | C  | NEL' KAN                     | RUSSIAN FEDERATION  |
| 68242 | C  | MMABATHO                     | SOUTH AFRICA        | 47420 | CT | NEMURO                       | JAPAN               |
| 64665 | C  | MOBAYE                       | CENTRAL AFRICAN REP | 29752 | C  | NENASTNAYA                   | RUSSIAN FEDERATION  |
| 26863 | C  | MOGILEV                      | BELARUS             | 30879 | C  | NERCHINSKIJ ZAVOD            | RUSSIAN FEDERATION  |
| 47165 | C  | MOKPO                        | REP KOREA           | 10270 | C  | NEURUPPIN                    | GERMANY             |
| 72544 | C  | MOLINE/QUAD CITY,            | USA                 | 42182 | CT | NEW DELHI/SAFDARJUNG         | INDIA               |
| 92044 | C  | MOMOTE W.O.                  | PAPUA N GUINEA      | 61052 | C  | NIAMEY-AERO                  | NIGER               |
| 07560 | C  | MONT AIGOUAL                 | FRANCE              | 07690 | C  | NICE                         | FRANCE              |
| 71309 | C  | MOOSONEE RCS, ONT            | CANADA              | 17250 | C  | NIGDE                        | TURKEY              |
| 61265 | C  | MOPTI                        | MALI                | 02942 | C  | NIINISALO                    | FINLAND             |
| 76665 | C  | MORELIA, MICH.               | MEXICO              | 31369 | C  | NIKOLAEVSK-NA-AMURE          | RUSSIAN FEDERATION  |
| 14648 | C  | MOSTAR                       | BOSNIA AND HERZEGOV | 07645 | T  | NIMES-COURBESSAC             | FRANCE              |
| 71989 | C  | MOULD BAY CS, NWT            | CANADA              | 13388 | C  | NIS                          | SERBIA AND MONTENEG |
| 33036 | C  | MOZYR                        | BELARUS             | 30433 | C  | NIZHNEANGARSK                | RUSSIAN FEDERATION  |
| 63971 | C  | MTWARA                       | U REP TANZANIA      | 23724 | C  | NJAKSIMVOL'                  | RUSSIAN FEDERATION  |
| 10870 | C  | MUENCHEN, FLUGHAFEN          | GERMANY             | 41710 | C  | NOKKUNDI                     | PAKISTAN            |
| 17292 | C  | MUGLA                        | TURKEY              | 70200 | CT | NOME, AK                     | USA                 |
| 42147 | C  | MUKTESHWAR KUMAON            | INDIA               | 10113 | C  | NORDERNEY                    | GERMANY             |
| 41675 | C  | MULTAN                       | PAKISTAN            | 61415 | CT | NOUADHIBOU                   | MAURITANIA          |
| 08430 | CT | MURCIA                       | SPAIN               | 89512 | CT | NOVOLAZAREVSKAJA             | USSR                |
| 72636 | C  | MUSKEGON/COUNTY, MI.         | USA                 | 94750 | C  | NOWRA RAN AIR STATION AWS    | AUSTRALIA           |
| 63756 | C  | MWANZA                       | U REP TANZANIA      | 10506 | C  | NUERBURG-BARWEILER           | GERMANY             |
| 25062 | C  | MYS BILLINGSA                | RUSSIAN FEDERATION  | 94681 | C  | NURIOOTPA VITICULTURAL       | AUSTRALIA           |
| 64654 | C  | N'DELE                       | CENTRAL AFRICAN REP | 04250 | C  | NUUK (GODTHAAB)              | GREENLAND           |
| 61049 | C  | N'GUIGMI                     | NIGER               | 43473 | C  | NUWARA ELIYA                 | SRI LANKA           |
| 60557 | C  | NAAMA                        | ALGERIA             | 91212 | C  | NWSO AGANA, GUAM, MARIANA IS | USA                 |
| 23445 | C  | NADYM                        | RUSSIAN FEDERATION  | 10948 | C  | OBERSTDORF                   | GERMANY             |
| 42867 | CT | NAGPUR SONEGAON              | INDIA               | 33837 | C  | ODESA                        | UKRAINE             |
| 47936 | C  | NAHA                         | JAPAN               | 10742 | C  | OEHRINGEN                    | GERMANY             |
| 63740 | C  | NAIROBI/KENYATTA AIRPORT     | KENYA               | 31088 | CT | OHOTSK                       | RUSSIAN FEDERATION  |
| 41128 | C  | NAJRAN                       | SAUDI ARABIA        | 47815 | C  | OITA                         | JAPAN               |
| 24713 | C  | NAKANNO                      | RUSSIAN FEDERATION  | 24688 | C  | OJMJAKON                     | RUSSIAN FEDERATION  |
| 38611 | C  | NAMANGAN                     | UZBEKISTAN          | 72353 | C  | OKLAHOMA CITY/W. ROGERS WORL | USA                 |
| 07180 | T  | NANCY-ESSEY                  | FRANCE              | 23734 | C  | OKTJABR'SKOE                 | RUSSIAN FEDERATION  |
| 23205 | CT | NAR'JAN-MAR                  | RUSSIAN FEDERATION  | 10215 | C  | OLDENBURG                    | GERMANY             |

# STATION LIST RECENT DATA

|       |    |                         |                     |       |    |                              |                    |
|-------|----|-------------------------|---------------------|-------|----|------------------------------|--------------------|
| 24125 | CT | OLENEK                  | RUSSIAN FEDERATION  | 67215 | C  | PEMBA                        | MOZAMBIQUE         |
| 72792 | C  | OLYMPIA, WA.            | USA                 | 48601 | CT | PENANG/BAYAN LEPAS           | MALAYSIA           |
| 47655 | C  | OMAEZAKI                | JAPAN               | 72532 | C  | PEORIA/GREATER PEORIA MUN.,  | USA                |
| 44215 | C  | OMNO-GOBI               | MONGOLIA            | 80210 | C  | PEREIRA/MATECANA             | COLOMBIA           |
| 25428 | C  | OMOLON                  | RUSSIAN FEDERATION  | 41530 | C  | PESHAWAR                     | PAKISTAN           |
| 28698 | CT | OMSK                    | RUSSIAN FEDERATION  | 22820 | C  | PETROZAVODSK                 | RUSSIAN FEDERATION |
| 01212 | C  | ONA II                  | NORWAY              | 72408 | C  | PHILADELPHIA/INT.,           | USA                |
| 22641 | C  | ONEGA                   | RUSSIAN FEDERATION  | 72278 | C  | PHOENIX/SKY HARBOR,          | USA                |
| 91699 | C  | ONO-I-LAU AWS           | FIJI                | 16052 | C  | PIAN ROSA                    | ITALY              |
| 94476 | C  | OODNADATTA AIRPORT      | AUSTRALIA           | 84140 | C  | PICHILINGUE                  | ECUADOR            |
| 60461 | C  | ORAN-PORT               | ALGERIA             | 11826 | C  | PIESTANY                     | SLOVAKIA           |
| 94917 | C  | ORBOST (COMPARISON)     | AUSTRALIA           | 86255 | C  | PILAR                        | PARAGUAY           |
| 35121 | T  | ORENBURG                | RUSSIAN FEDERATION  | 33019 | C  | PINSK                        | BELARUS            |
| 76737 | C  | ORIZABA, VER.           | MEXICO              | 16158 | C  | PISA/S. GIUSTO               | ITALY              |
| 01241 | CT | ORLAND III              | NORWAY              | 72520 | C  | PITTSBURGH/GREATER PITTSBURG | USA                |
| 40712 | C  | ORUMIEH                 | IRAN, ISLAMIC REP   | 84401 | C  | PIURA                        | PERU               |
| 47772 | C  | OSAKA                   | JAPAN               | 61990 | C  | PLAISANCE (MAURITIUS)        | MAURITIUS          |
| 10480 | C  | OSCHATZ                 | GERMANY             | 07117 | C  | PLOUMANAC'H PERROS GUIREC    | FRANCE             |
| 47675 | C  | OSHIMA                  | JAPAN               | 65518 | C  | PO                           | BURKINA FASO       |
| 01384 | C  | OSLO/GARDERMOEN         | NORWAY              | 72578 | C  | POCATELLO/MUN., ID.          | USA                |
| 85782 | C  | OSORNO                  | CHILE               | 61612 | C  | PODOR                        | SENEGAL            |
| 02226 | C  | OSTERSUND FROSON        | SWEDEN              | 32027 | C  | POGIBI                       | RUSSIAN FEDERATION |
| 60580 | C  | OUARGLA                 | ALGERIA             | 47138 | C  | POHANG                       | REP KOREA          |
| 60115 | C  | OUJDA                   | MOROCCO             | 07207 | C  | POINTE DU TALUT              | FRANCE             |
| 02875 | C  | OULU                    | FINLAND             | 20046 | C  | POLARGMO IM. E.T. KRENKELJA  | RUSSIAN FEDERATION |
| 60421 | C  | OUM EL BOUAGHI          | ALGERIA             | 08053 | C  | PONFERRADA                   | SPAIN              |
| 08015 | C  | OVIEDO                  | SPAIN               | 11952 | T  | POPRAD-GANOVCE               | SLOVAKIA           |
| 22619 | C  | PADANY                  | RUSSIAN FEDERATION  | 27675 | C  | PORETSKOE                    | RUSSIAN FEDERATION |
| 16022 | C  | PAGANELLA               | ITALY               | 87178 | C  | POSADAS AERO.                | ARGENTINA          |
| 48955 | C  | PAKSE                   | LAO PDR             | 10379 | C  | POTSDAM                      | GERMANY            |
| 08301 | C  | PALMA DE MALLORCA       | SPAIN               | 83358 | C  | POXOREO (POXOREU)            | BRAZIL             |
| 08085 | C  | PAMPLONA/NOAIN          | SPAIN               | 12330 | C  | POZNAN                       | POLAND             |
| 41739 | C  | PANJGUR                 | PAKISTAN            | 11518 | C  | PRAHA/RUZYNE                 | CZECH REP          |
| 07149 | C  | PARIS-ORLY              | FRANCE              | 31989 | C  | PREOBRAZHENIE                | RUSSIAN FEDERATION |
| 87289 | C  | PASO DE LOS LIBRES AERO | ARGENTINA           | 04390 | C  | PRINS CHRISTIAN SUND         | GREENLAND          |
| 42492 | T  | PATNA                   | INDIA               | 72507 | C  | PROVIDENCE/GREEN STATE, RI.  | USA                |
| 71984 | C  | PAULATUK, NWT           | CANADA              | 84515 | C  | PUCALLPA                     | PERU               |
| 27823 | C  | PAVELETS                | RUSSIAN FEDERATION  | 29313 | C  | PUDINO                       | RUSSIAN FEDERATION |
| 06610 | C  | PAYERNE                 | SWITZERLAND & LIECH | 76855 | C  | PUERTO ANGEL, OAX.           | MEXICO             |
| 71434 | C  | PEAWANUCK (AUT), ONT    | CANADA              | 43063 | C  | PUNE                         | INDIA              |
| 12942 | C  | PECS/POGANY             | HUNGARY             | 26359 | C  | PUSKINSKIE GORY              | RUSSIAN FEDERATION |
| 86097 | C  | PEDRO JUAN CABALLERO    | PARAGUAY            | 43424 | C  | PUTTALAM                     | SRI LANKA          |
| 87544 | C  | PEHUAJO AERO            | ARGENTINA           | 84179 | C  | PUYO                         | ECUADOR            |
| 96109 | C  | PEKAN BARU/SIMPANGTIGA  | INDONESIA           | 47058 | C  | PYONGYANG                    | DPR KOREA          |

# STATION LIST RECENT DATA

|       |    |                              |                     |       |    |                              |                     |
|-------|----|------------------------------|---------------------|-------|----|------------------------------|---------------------|
| 56137 | C  | QAMDO                        | CHINA               | 28552 | C  | SADRINSK                     | RUSSIAN FEDERATION  |
| 54857 | C  | QINGDAO                      | CHINA               | 06680 | C  | SAENTIS                      | SWITZERLAND & LIECH |
| 50745 | C  | QIQIHAR                      | CHINA               | 42671 | C  | SAGAR                        | INDIA               |
| 41660 | C  | QUETTA AIRPORT               | PAKISTAN            | 07627 | C  | SAINT GIRONS                 | FRANCE              |
| 72797 | C  | QUILLAYUTE, WA.              | USA                 | 08202 | C  | SALAMANCA/MATACAN            | SPAIN               |
| 60135 | C  | RABAT-SALE                   | MOROCCO             | 16723 | C  | SAMOS (AIRPORT)              | GREECE              |
| 40362 | C  | RAFHA                        | SAUDI ARABIA        | 08023 | CT | SANTANDER                    | SPAIN               |
| 72306 | C  | RALEIGH/RALEIGH-DURHAM, NC.  | USA                 | 83550 | C  | SAO MATEUS                   | BRAZIL              |
| 93994 | C  | RAOUL ISLAND, KERMADÉC IS. A | N ZEALAND           | 47412 | CT | SAPPORO                      | JAPAN               |
| 91958 | CT | RAPA                         | FRENCH POLY.        | 14654 | C  | SARAJEVO-BJELAVE             | BOSNIA AND HERZEGOV |
| 91843 | C  | RAROTONGA                    | COOK ISLANDS        | 21802 | C  | SASKYLAH                     | RUSSIAN FEDERATION  |
| 95670 | C  | RAYVILLE PARK                | AUSTRALIA           | 97900 | C  | SAUMLAKI/OLILIT              | INDONESIA           |
| 82900 | T  | RECIFE                       | BRAZIL              | 48947 | C  | SAVANNAKHET                  | LAO PDR             |
| 10776 | C  | REGENSBURG                   | GERMANY             | 48938 | C  | SAYABOURY                    | LAO PDR             |
| 07070 | C  | REIMS                        | FRANCE              | 10035 | CT | SCHLESWIG                    | GERMANY             |
| 07130 | C  | RENNES                       | FRANCE              | 98430 | C  | SCIENCE GARDEN               | PHILIPPINES         |
| 71407 | C  | RESERVED OR UNKNOWN          | CANADA              | 94738 | C  | SCONE SCS                    | AUSTRALIA           |
| 08175 | C  | REUS/AEROPUERTO              | SPAIN               | 72793 | C  | SEATTLE/S.-TACOMA,           | USA                 |
| 85140 | C  | REYES                        | BOLIVIA             | 10261 | C  | SEEHAUSEN                    | GERMANY             |
| 85043 | C  | RIBERALTA                    | BOLIVIA             | 24661 | C  | SEGEN-KYUEL'                 | RUSSIAN FEDERATION  |
| 72401 | C  | RICHMOND/BYRD, VA.           | USA                 | 25703 | T  | SEJMCHAN                     | RUSSIAN FEDERATION  |
| 91948 | C  | RIKITEA                      | FRENCH POLY.        | 32509 | C  | SEMYACHIK                    | RUSSIAN FEDERATION  |
| 44203 | C  | RINCHINHUMBE                 | MONGOLIA            | 47590 | C  | SENDAI                       | JAPAN               |
| 76581 | C  | RIO VERDE, S.L.P.            | MEXICO              | 47108 | C  | SEOUL                        | REP KOREA           |
| 33301 | C  | RIVNE                        | UKRAINE             | 71811 | T  | SEPT-ILES UA, QUE            | CANADA              |
| 40438 | C  | RIYADH OBS. (O.A.P.)         | SAUDI ARABIA        | 61976 | C  | SERGE-FROLOW (ILE TROMELIN)  | OCEAN ISLANDS       |
| 17040 | C  | RIZE                         | TURKEY              | 60445 | C  | SETIF                        | ALGERIA             |
| 72411 | C  | ROANOKE/MUN., VA.            | USA                 | 23986 | C  | SEVERO-ENISEJSK              | RUSSIAN FEDERATION  |
| 71490 | C  | ROBERTSON LAKE (AUT), NU     | CANADA              | 63980 | C  | SEYCHELLES INTERNATIONAL AIR | SEYCHELLES          |
| 72529 | C  | ROCHESTER/ROCHESTER-MONROE C | USA                 | 37126 | C  | SHADZHATMAZ                  | RUSSIAN FEDERATION  |
| 61988 | C  | RODRIGUES                    | MAURITIUS           | 24329 | C  | SHELAGONTSY                  | RUSSIAN FEDERATION  |
| 06190 | C  | ROENNE                       | DENMARK AND FAROE I | 40848 | C  | SHIRAZ                       | IRAN, ISLAMIC REP   |
| 30650 | C  | ROMANOVKA                    | RUSSIAN FEDERATION  | 22271 | T  | SHOJNA                       | RUSSIAN FEDERATION  |
| 87480 | C  | ROSARIO AERO                 | ARGENTINA           | 72248 | C  | SHREVEPORT/REG., LA.         | USA                 |
| 89062 | C  | ROTHERA                      | U KINGDOM           | 38328 | C  | SHYMKENT                     | KAZAKHSTAN          |
| 07037 | C  | ROUEN                        | FRANCE              | 26524 | C  | SIAULIAI                     | LITHUANIA           |
| 51777 | C  | RUOQIANG                     | CHINA               | 15260 | C  | SIBIU                        | ROMANIA             |
| 85141 | C  | RURRENABAQUE                 | BOLIVIA             | 60520 | C  | SIDI-BEL-ABBES               | ALGERIA             |
| 28966 | C  | RUZAEVKA                     | KAZAKHSTAN          | 17210 | C  | SIIRT                        | TURKEY              |
| 27730 | T  | RYAZAN'                      | RUSSIAN FEDERATION  | 61297 | C  | SIKASSO                      | MALI                |
| 16008 | C  | S. VALENTINO ALLA MUTA       | ITALY               | 42619 | C  | SILCHAR                      | INDIA               |
| 10708 | C  | SAARBRUECKEN/ENSHEIM         | GERMANY             | 33946 | C  | SIMFEROPOL'                  | UKRAINE             |
| 71600 | C  | SABLE ISLAND, NS             | CANADA              | 47035 | C  | SINUIJU                      | DPR KOREA           |
| 71467 | C  | SACHS HARBOUR CLIMATE, NWT   | CANADA              | 72557 | C  | SIOUX CITY/MUN., IA.         | USA                 |

# STATION LIST RECENT DATA

|       |    |                              |                    |       |    |                        |                    |
|-------|----|------------------------------|--------------------|-------|----|------------------------|--------------------|
| 17090 | C  | SIVAS                        | TURKEY             | 12982 | CT | SZEGED                 | HUNGARY            |
| 62417 | C  | SIWA                         | EGYPT              | 40706 | C  | TABRIZ                 | IRAN, ISLAMIC REP  |
| 60355 | C  | SKIKDA                       | ALGERIA            | 84782 | C  | TACNA                  | PERU               |
| 13588 | C  | SKOPJE-ZAJCEV RID            | MACEDONIA          | 34720 | C  | TAGANROG               | RUSSIAN FEDERATION |
| 71069 | C  | SLAVE LAKE A, ALTA           | CANADA             | 91938 | C  | TAHITI-FAAA            | FRENCH POLY.       |
| 26951 | C  | SLUTSK                       | BELARUS            | 35406 | C  | TAIPAK                 | KAZAKHSTAN         |
| 71950 | C  | SMITHERS A, BC               | CANADA             | 25932 | C  | TAJGONOS               | RUSSIAN FEDERATION |
| 26781 | C  | SMOLENSK                     | RUSSIAN FEDERATION | 47891 | C  | TAKAMATSU              | JAPAN              |
| 76845 | C  | SN. CRISTOBAL LAS CASAS, CHI | MEXICO             | 26038 | C  | TALLINN                | ESTONIA            |
| 32477 | C  | SOBOLEVO                     | RUSSIAN FEDERATION | 60680 | C  | TAMANRASSET            | ALGERIA            |
| 02836 | C  | SODANKYLA                    | FINLAND            | 87645 | C  | TANDIL AERO            | ARGENTINA          |
| 15614 | C  | SOFIA (OBSERV.)              | BULGARIA           | 76903 | C  | TAPACHULA, CHIS        | MEXICO             |
| 65361 | C  | SOKODE                       | TOGO               | 28493 | C  | TARA                   | RUSSIAN FEDERATION |
| 11146 | C  | SONNBLICK                    | AUSTRIA            | 04360 | C  | TASIILAQ (AMMASSALIK)  | GREENLAND          |
| 08148 | C  | SORIA                        | SPAIN              | 47646 | T  | TATENO                 | JAPAN              |
| 16746 | C  | SOUDA (AIRPORT)              | GREECE             | 96481 | CT | TAWAU                  | MALAYSIA           |
| 31770 | C  | SOVETSKAYA GAVAN'            | RUSSIAN FEDERATION | 23256 | C  | TAZOVSKOE              | RUSSIAN FEDERATION |
| 14445 | C  | SPLIT/MARJAN                 | CROATIA            | 37545 | C  | TBILISI                | GEORGIA            |
| 72785 | C  | SPOKANE/INT., WA.            | USA                | 60475 | C  | TEBESSA                | ALGERIA            |
| 68512 | C  | SPRINGBOK                    | SOUTH AFRICA       | 78720 | C  | TEGUCIGALPA            | HONDURAS           |
| 25206 | C  | SREDNE-KOLYMSK               | RUSSIAN FEDERATION | 40754 | C  | TEHRAN-MEHRABAD        | IRAN, ISLAMIC REP  |
| 42027 | C  | SRINAGAR                     | INDIA              | 35426 | C  | TEMIR                  | KAZAKHSTAN         |
| 10028 | C  | ST PETER-ORDING              | GERMANY            | 56739 | C  | TENGCHONG              | CHINA              |
| 26063 | C  | ST.PETERSBURG (VOEJKOVO)     | RUSSIAN FEDERATION | 76373 | C  | TEPEHUANES, DGO.       | MEXICO             |
| 04312 | C  | STATION NORD AWS             | GREENLAND          | 16232 | C  | TERMOLI                | ITALY              |
| 71017 | C  | STEFANSSON ISLAND, NU        | CANADA             | 61202 | C  | TESSALIT               | MALI               |
| 02485 | C  | STOCKHOLM                    | SWEDEN             | 67261 | C  | TETE                   | MOZAMBIQUE         |
| 07190 | C  | STRASBOURG-ENTZHEIM          | FRANCE             | 94570 | C  | TEWANTIN RSL PARK      | AUSTRALIA          |
| 10738 | C  | STUTTGART-ECHTERDINGEN       | GERMANY            | 48946 | C  | THAKHEK                | LAO PDR            |
| 15023 | C  | SUCEAVA                      | ROMANIA            | 71695 | C  | THE PAS CLIMATE, MAN   | CANADA             |
| 24136 | C  | SUHANA                       | RUSSIAN FEDERATION | 43371 | CT | THIRUVANANTHAPURAM     | INDIA              |
| 15360 | C  | SULINA                       | ROMANIA            | 71079 | C  | THOMPSON               | CANADA             |
| 33275 | C  | SUMY                         | UKRAINE            | 41314 | C  | THUMRAIT               | OMAN               |
| 24738 | C  | SUNTAR                       | RUSSIAN FEDERATION | 60511 | C  | TIARET                 | ALGERIA            |
| 22676 | C  | SURA                         | RUSSIAN FEDERATION | 94485 | C  | TIBOOBURRA POST OFFICE | AUSTRALIA          |
| 24790 | C  | SUSUMAN                      | RUSSIAN FEDERATION | 61450 | C  | TIDJIKJA               | MAURITANIA         |
| 47421 | C  | SUTTSU                       | JAPAN              | 21824 | T  | TIKSI                  | RUSSIAN FEDERATION |
| 01008 | C  | SVALBARD LUFTHAVN            | NORWAY             | 61036 | C  | TILLABERY              | NIGER              |
| 71446 | C  | SWIFT CURRENT CDA, SASK      | CANADA             | 15247 | C  | TIMISOARA              | ROMANIA            |
| 94767 | C  | SYDNEY AIRPORT AMO           | AUSTRALIA          | 60656 | C  | TINDOUF                | ALGERIA            |
| 23804 | T  | SYKTYVKAR                    | RUSSIAN FEDERATION | 33829 | C  | TIRASPOL               | REP MOLDOVA        |
| 89532 | CT | SYOWA                        | JAPAN              | 60395 | C  | TIZI-OUZOU             | ALGERIA            |
| 72519 | C  | SYRACUSE/HANCOCK,            | USA                | 76683 | C  | TLAXCALA, TLAX.        | MEXICO             |
| 12205 | C  | SZCZECIN                     | POLAND             | 60531 | C  | TLEMCEN-ZENATA         | ALGERIA            |



# STATION LIST RECENT DATA

|       |    |                          |                     |       |    |                              |                    |
|-------|----|--------------------------|---------------------|-------|----|------------------------------|--------------------|
| 28275 | C  | TOBOL'SK                 | RUSSIAN FEDERATION  | 17170 | C  | VAN                          | TURKEY             |
| 31137 | C  | TOKO                     | RUSSIAN FEDERATION  | 01098 | C  | VARDO                        | NORWAY             |
| 23662 | C  | TOL'KA                   | RUSSIAN FEDERATION  | 33038 | C  | VASILEVICH                   | BELARUS            |
| 61223 | C  | TOMBOUCTOU               | MALI                | 23678 | C  | VERHNEIMBATSK                | RUSSIAN FEDERATION |
| 06011 | CT | TORSHAVN                 | DENMARK AND FAROE I | 72255 | C  | VICTORIA/VICTORIA REGIONAL,  | USA                |
| 44225 | C  | TOSONTSENGEL             | MONGOLIA            | 15502 | C  | VIDIN                        | BULGARIA           |
| 27051 | C  | TOT'MA                   | RUSSIAN FEDERATION  | 48940 | C  | VIENTIANE                    | LAO PDR            |
| 07630 | C  | TOULOUSE BLAGNAC         | FRANCE              | 08045 | C  | VIGO/PEINADOR                | SPAIN              |
| 94294 | CT | TOWNSVILLE AERO          | AUSTRALIA           | 11212 | C  | VILLACHERALPE                | AUSTRIA            |
| 16429 | C  | TRAPANI BIRGI            | ITALY               | 33562 | C  | VINNYTSIA                    | UKRAINE            |
| 16098 | C  | TREVISO/ISTRANA          | ITALY               | 85244 | C  | VIRU-VIRU                    | BOLIVIA            |
| 10609 | C  | TRIER-PETRISBERG         | GERMANY             | 02590 | C  | VISBY                        | SWEDEN             |
| 01025 | C  | TROMSO/LANGNES           | NORWAY              | 26666 | C  | VITEBSK                      | BELARUS            |
| 26997 | C  | TRUBCHEVSK               | RUSSIAN FEDERATION  | 31960 | C  | VLADIVOSTOK                  | RUSSIAN FEDERATION |
| 44282 | C  | TSETSERLEG               | MONGOLIA            | 06310 | C  | VLISSINGEN                   | NETHERLANDS        |
| 44347 | C  | TSOGT-OVOO               | MONGOLIA            | 20982 | C  | VOLOCHANKA                   | RUSSIAN FEDERATION |
| 91954 | C  | TUBUAI                   | FRENCH POLY.        | 34122 | T  | VORONEZ                      | RUSSIAN FEDERATION |
| 72274 | C  | TUCSON/INT., AZ.         | USA                 | 89606 | C  | VOSTOK                       | ANTARCTICA         |
| 98233 | C  | TUGUEGARAO               | PHILIPPINES         | 33777 | C  | VOZNESENS'K                  | UKRAINE            |
| 76634 | C  | TULANCINGO, HGO.         | MEXICO              | 22837 | C  | VYTEGRA                      | RUSSIAN FEDERATION |
| 80453 | C  | TUMEREMO                 | VENEZUELA           | 72256 | C  | WACO, MADISON-COOPER,        | USA                |
| 60715 | C  | TUNIS-CARTHAGE           | TUNISIA             | 62751 | C  | WAD MEDANI                   | SUDAN              |
| 24507 | CT | TURA                     | RUSSIAN FEDERATION  | 71049 | C  | WAGER BAY (AUT), MAN         | CANADA             |
| 76640 | C  | TUXPAN.VER.              | MEXICO              | 97340 | C  | WAINGAPU/MAU HAU             | INDONESIA          |
| 48354 | C  | UDON THANI               | THAILAND            | 47600 | CT | WAJIMA                       | JAPAN              |
| 28722 | C  | UFA-DIOMA                | RUSSIAN FEDERATION  | 47401 | CT | WAKKANAI                     | JAPAN              |
| 35416 | C  | UIL                      | KAZAKHSTAN          | 97686 | C  | WAMENA                       | INDONESIA          |
| 97180 | CT | UJUNG PANDANG/HASANUDDIN | INDONESIA           | 12375 | C  | WARSZAWA-OKECIE              | POLAND             |
| 44212 | C  | ULAANGOM                 | MONGOLIA            | 10544 | C  | WASSERKUPPE                  | GERMANY            |
| 44214 | C  | ULGI                     | MONGOLIA            | 71199 | C  | WATSON LAKE (AUT), YT        | CANADA             |
| 44272 | C  | ULIASTAI                 | MONGOLIA            | 10688 | C  | WEIDEN                       | GERMANY            |
| 47115 | C  | ULLEUNGDO                | REP KOREA           | 10980 | C  | WENDELSTEIN                  | GERMANY            |
| 10838 | C  | ULM                      | GERMANY             | 72203 | C  | WEST PALM BEACH/ INT. FL.    | USA                |
| 33587 | C  | UMAN'                    | UKRAINE             | 92004 | C  | WEWAK W.O.                   | PAPUA N GUINEA     |
| 44304 | C  | UNDERKHAAN               | MONGOLIA            | 93112 | T  | WHENUAPAI                    | N ZEALAND          |
| 68424 | C  | UPINGTON                 | SOUTH AFRICA        | 71964 | CT | WHITEHORSE A, YT             | CANADA             |
| 35108 | C  | URALSK                   | KAZAKHSTAN          | 72351 | C  | WICHITA FALLS/SHEPS AFB/WICH | USA                |
| 38396 | C  | URGENCH                  | UZBEKISTAN          | 11035 | CT | WIEN/HOHE WARTE              | AUSTRIA            |
| 17188 | C  | USAK                     | TURKEY              | 72513 | C  | WILKES-BARRE-SCRANTON, PA.   | USA                |
| 87938 | C  | USHUAIA AERO             | ARGENTINA           | 72583 | C  | WINNEMUCCA/MUN., NV.         | USA                |
| 32287 | C  | UST'- HAJRUZOVO          | RUSSIAN FEDERATION  | 10474 | C  | WITTENBERG                   | GERMANY            |
| 01403 | C  | UTSIRA FYR               | NORWAY              | 12497 | C  | WLODAWA                      | POLAND             |
| 33631 | C  | UZHHOROD                 | UKRAINE             | 47055 | C  | WONSAN                       | DPR KOREA          |
| 08284 | C  | VALENCIA/AEROPUERTO      | SPAIN               | 94659 | CT | WOOMERA AERODROME            | AUSTRALIA          |

# STATION LIST RECENT DATA

|       |    |                             |                     |
|-------|----|-----------------------------|---------------------|
| 12424 | C  | WROCLAW II                  | POLAND              |
| 51463 | CT | WU LU MU QI                 | CHINA               |
| 10655 | C  | WUERZBURG                   | GERMANY             |
| 56571 | C  | XICHANG                     | CHINA               |
| 85365 | C  | YACUIBA                     | BOLIVIA             |
| 36064 | C  | YAJLJU                      | RUSSIAN FEDERATION  |
| 72781 | C  | YAKIMA/YAKIMA AIR TERMINAL, | USA                 |
| 64661 | C  | YALINGA                     | CENTRAL AFRICAN REP |
| 94589 | C  | YAMBA PILOT STATION         | AUSTRALIA           |
| 23463 | C  | YANOV-STAN                  | RUSSIAN FEDERATION  |
| 91413 | C  | YAP, CAROLINE IS.           | USA                 |
| 34866 | C  | YASHKUL'                    | RUSSIAN FEDERATION  |
| 40439 | C  | YENBO                       | SAUDI ARABIA        |
| 47168 | C  | YEOSU                       | REP KOREA           |
| 37789 | C  | YEREVAN/YEREVAN-ARABKIR     | ARMENIA             |
| 57461 | C  | YICHANG                     | CHINA               |
| 51431 | C  | YINING                      | CHINA               |
| 65167 | C  | YOLA                        | NIGERIA             |
| 47744 | T  | YONAGO                      | JAPAN               |
| 72525 | C  | YOUNGSTOWN, OH.             | USA                 |
| 14236 | C  | ZAGREB/GRIC                 | CROATIA             |
| 27857 | C  | ZAMETCHINO                  | RUSSIAN FEDERATION  |
| 81225 | C  | ZANDERIJ                    | SURINAME            |
| 08160 | C  | ZARAGOZA/AEROPUERTO         | SPAIN               |
| 34398 | C  | ZHALPAKTAL                  | KAZAKHSTAN          |
| 57083 | C  | ZHENGZHOU                   | CHINA               |
| 24343 | C  | ZHIGANSK                    | RUSSIAN FEDERATION  |
| 41620 | C  | ZHOB                        | PAKISTAN            |
| 61695 | C  | ZIGUINCHOR                  | SENEGAL             |
| 10582 | C  | ZINNWALD-GEORGENFELD        | GERMANY             |
| 36038 | C  | ZMEINOGORSK                 | RUSSIAN FEDERATION  |
| 31829 | C  | ZOLOTOJ                     | RUSSIAN FEDERATION  |
| 17022 | C  | ZONGULDAK                   | TURKEY              |
| 61404 | C  | ZOUERATE                    | MAURITANIA          |
| 06660 | C  | ZUERICH-METEOSCHWEIZ        | SWITZERLAND & LIECH |
| 10961 | C  | ZUGSPITZE                   | GERMANY             |
| 25400 | C  | ZYRYANKA                    | RUSSIAN FEDERATION  |

**These and other publications are available from the National Climatic Data Center**

### **Hourly Precipitation Data**

This publication contains hourly precipitation amounts obtained from recording rain gages located at National Weather Service, Federal Aviation Administration, and cooperative observer stations. Published data are displayed in inches and tenths or inches and hundredths at local standard time. HPD includes maximum precipitation for nine (9) time periods from 15 minutes to 24 hours, for selected stations.

### **Climatological Data**

Monthly editions contain station daily maximum and minimum temperatures and precipitation. Some Stations provide daily snowfall, snow depth, evaporation, and soil temperature data. Each edition also contains monthly summaries for heating and cooling degree days (65 degree F base). The July issue contains a recap of monthly heating degree days and snow data for the preceding July through June.

The Annual issue contains monthly and annual averages of temperature, precipitation, temperature extremes, freeze data, soil temperatures, evaporation, and a recap of monthly cooling degree days.

### **Storm Data**

Monthly issues contain a chronological listing, by states, of occurrences of storms and unusual weather phenomena. Reports contain information on storm paths, deaths, injuries, and property damage. An "Outstanding storms of the month" section highlights severe weather events with photographs, illustrations, and narratives. The December issue includes annual tornado, lightning, flash flood, and tropical cyclone summaries.

### **Monthly Climatic Data for the World**

This publication contains monthly means for temperature, pressure, precipitation, vapor pressure, and sunshine for approximately 2,000 surface data collection stations worldwide and monthly mean upper air temperatures, dew point depressions, and wind velocities for approximately 500 observing sites.

### **Local Climatological Data**

LCD publications summarize temperature, relative humidity, precipitation, cloudiness, wind speed and direction observations for several hundred cities in the U.S. and its territories. Each monthly publication also contains 3 hourly weather observations for that month and a hourly summary of precipitation. Annual LCD publications contain a summary of the past calendar year as well as historical averages and extremes.

For Information Call:

(866) 742-3322 (Toll free)

(828) 271-4010 (TDD)

(304) 726-4409 (Fax)

Subscription Service Center  
310 State Route 956  
Building 300  
Rocket Center, WV 26726

PRSRT STD  
POSTAGE & FEES PAID  
United States Department of Commerce  
NOAA Permit No. G-19

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE \$300  
ADDRESS CORRECTION REQUESTED

To change your address, please return a copy of the mailing label along with your new address to:

NCDC Subscription Services Center  
310 State Route 956  
Building 300  
Rocket Center, WV 26726

Toll free number : (866) 742-3322  
TDD : (828) 271-4010  
Fax number : (304) 726-4409