AUGUST 1978
TUCSON, ARIZONA
NATIONAL WEATHER SERVICE OFC
INTERNATIONAL AIRPORT

Local Climatological Data

MONTHLY SUMMARY

LATITUDE 32° 07′ N LONGITUDE 110° 56′ W ELEVATION (GROUND) 2584 FT. STANDARD TIME USED: MOUNTAIN WBAN #23160

DATE	TEMPERATURE °F MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	DEGREE DAYS BASE 65° HEATING (SEASON BEGINS WITH JULY)	COOLING (SEASON BEGINS WITH JAN.)	WEATHER TYPES ON DATES OF OCCURRENCE 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW	SNOW, ICE PELLETS OR ICE ON GROUND AT 05AM IN.	PRECIPITATION WATER EQUIVALENT IN	SNOW, ICE PELLETS IN.	AVG. STATION PRESSURE IN. ELEV. 2555 FEET M.S.L.	WIND RESULTANT DIR.	RESULTANT SPEED M.P.H.	AVERAGE SPEED M.P.H.	FASTEST MILE SPEED M.P.H.	FASTEST MILE DIRECTION	SUNSHINE MINUTES	PERCENT OF POSSIBLE	SKY COVER TENTHS SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT	DATE
1	2	3	4	5	6	7A	7B	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	84	68	81	-4	64	0	16	3	0	.15	0	27.31	24	4.6	8.8	40	S	742	90	5	5	1
2	90	72	81*	-4	63	0	16		0	T	0	27.34	27	4.4	7.5	15	W	728	89	5	5	2
3	97	74	86	1	62	0	21	3	0	T	0	27.33	17	4.0	7.8	37	SE	791	96	3	4	3
4	96	72	84	-1	63	0	19	3	0	.12	0	27.36	15	9.3	12.9	26	NE	565	69	7	8	4
5	96	73	85	0	59	0	20		0	0	0	27.37	11	9.1	9.4	19	SE	817	100	1	1	5
6	97	74	86	1	56	0	21		0	0	0	27.41	12	9.2	9.6	18	E	815	100	0	0	6
7	100	72	86	1	57	0	21	3	0	T	0	27.36	19	3.3	6.8	37	NW	814	100	1	2	7
8	99	71	85	0	58	0	20	3	0	.08	0	27.34	18	3.2	9.8	35	NE	758	93	5	7	8
9	98	72	85	1	60	0	20	3	0	.03	0	27.32	14	4.4	7.6	17	N	765	94	4	6	9
10	99	75	87	3	58	0	22	3	0	.02	0	27.28	15	4.7	7.1	25	SE	764	94	2	4	10
11	96	72	84	0	62	0	19	3	0	.62	0	27.31	22	4.1	8.5	28	SE	668	83	5	7	11
12	91	73	82	-2	63	0	17		0	0	0	27.37	18	2.1	6.6	15	N	686	86	6	6	12
13	94	72	83	-1	59	0	18		0	0	0	27.35	22	1.5	6.9	13	W	777	97	4	2	13
14	96	69	83	-1	49	0	18		0	0	0	27.33	17	2.1	7.5	16	W	796	99	2	2	14
15	98	68*	83	-1	48	0	18		0	0	0	27.33	18	3.5	7.5	14	W	800	100	0	0	15
16	101	72	87	3	50	0	22		0	0	0	27.32	24	5.1	9.1	20	NW	799	100	0	0	16
17	95	74	85	1	62	0	20	3	0	.04	0	27.33	18	4.1	7.5	19	SW	782	98	5	4	17
18	96	76	86	3	60	0	21		0	.06	0	27.32	12	4.0	5.6	25	NW	681	86	4	5	18
19	93	75	84	1	62	0	19	3	0	.04	0	27.36	13	5.4	7.6	26	S	438	55	8	6	19
20	97	72	85	2	58	0	20	3	0	.28	0	27.40	13	7.2	8.5	31	SW	533	67	6	7	20
21	97	74	86	3	54	0	21		0	0	0	27.39	21	3.0	8.8	15	W	670	85	7	7	21
22	95	74	85	2	57	0	20	3	0	T	0	27.30	17	5.6	8.5	23	W	716	91	4	4	22
23	93	77	85	2	58	0	20		0	0	0	27.33	18	4.2	5.8	20	W	664	84	9	9	23
24	95	74	85	2	58	0	20	3	0	.15	0	27.35	14	4.5	6.5	26	NW	630	80	5	6	24
25	99	71	85	2	54	0	20		0	0	0	27.31	30	1.0	6.9	13	NW	783	100	1	1	25
26	101*	72	87	4	48	0	22		0	0	0	27.28	22	4.7	8.5	18	SW	781	100	1	1	26
27	99	71	85	2	43	0	20		0	0	0	27.28	24	.8	7.5	19	W	779	100	0	0	27
28	99	70	85	2	46	0	20		0	0	0	27.26	22	1.2	9.1	19	W	777	100	2	1	28
29	98	72	85	2	47	0	20		0	0	0	27.28	13	7.3	9.4	16	SE	775	100	0	1	29
30	98	78	88*	5	45	0	23		0	0	0	27.28	13	10.5	10.8	23	SE	774	100	0	0	30
31	97	77	87	4	44	0	22		0	0	0	27.25	12	11.0	12.4	26	SE	772	100	0	0	31
SUM	2994	SUM 2256				TOTAL 0	TOTAL 616	NUMBER OF DAYS		TOTAL 1.59	TOTAL 0	27.33	FOR THE MONTH: 16	3.6	8.3	40	S	TOTAL 22650	% FOR MONTH 92	SUM 102	SUM 111	
AVG.	96.6	AVG. 72.8	AVG. 84.7	DEP. 0.9	AVG. 56	DEP. 0	DEP. 33	PRECIPITATION >.01 INCH	11	DEP. -0.75						DATE: 01		POSSIBLE 24745		AVG. 3.3	AVG. 3.6	

NUMBER OF DAYS MAXIMUM TEMP. ≥ 90°	≤ 32°	MINIMUM TEMP. ≤ 32°	≤ 0°
31	0	0	0

SEASON TO DATE TOTAL	TOTAL
0	2380
DEP.	DEP.
0	232

SNOW, ICE PELLETS	
≥ 1.0 INCH	0
THUNDERSTORMS	13
HEAVY FOG	0
CLEAR 15	PARTLY CLOUDY 14 CLOUDY 2

GREATEST IN 24 HOURS AND DATES PRECIPITATION		SNOW, ICE PELLETS
.64	10-11	0

GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE
0

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT
+ ALSO ON AN EARLIER DATE, OR DATES.
HEAVY FOG: - VISIBILITY 1/4 MILE OR LESS.
FIGURES FOR WIND DIRECTIONS ARE TENS OF DEGREES CLOCKWISE FROM TRUE NORTH. 00 = CALM.
DATA IN COLS. 6 AND 12-15 ARE BASED ON 7 OR MORE OBSERVATIONS PER DAY AT 3-HOUR INTERVALS.
FASTEST MILE WIND SPEEDS ARE FASTEST OBSERVED ONE-MINUTE VALUES WHEN DIRECTIONS ARE IN TENS OF DEGREES. THE / WITH THE DIRECTION INDICATES PEAK GUST SPEED.
ANY ERRORS DETECTED WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL SUMMARY

SUMMARY BY HOURS

HOUR LOCAL TIME	AVERAGES SKY COVER TENTHS	STATION PRESSURE IN.	TEMPERATURE AIR °F	WET BULB °F	DEW PT. °F	RELATIVE HUMIDITY %	WIND SPEED M.P.H.	RESULTANT WIND DIRECTION	SPEED M.P.H.
02	4	27.33	77	65	58	53	7.2	15	6.2
05	3	27.34	75	64	58	58	7.9	13	6.9
08	3	27.37	79	66	59	50	8.3	14	7.6
11	2	27.37	89	67	55	32	7.3	15	2.7
14	3	27.31	94	67	52	26	8.9	22	2.7
17	5	27.27	93	67	53	28	10.3	27	4.1
20	4	27.29	87	66	54	37	8.5	17	1.7
23	4	27.33	81	65	57	47	7.8	15	5.1

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

DATE	A. M. HOUR ENDING AT 1	2	3	4	5	6	7	8	9	10	11	12	P. M. HOUR ENDING AT 1	2	3	4	5	6	7	8	9	10	11	12	DATE
1																			.02	.13					1
2	T	T	T	T	T	T																			2
3																				T	T				3
4															T	T				.03	.03	.05	.01	T	4
5																									5
6																									6
7																							T	T	7
8	T																						.06	.02	8
9	.01	T																					.02		9
10																					T	.01	T	.01	10
11	T			.07	T													T	.40	.13	.02	T			11
12																									12
13																									13
14																									14
15																									15
16																									16
17												T		T	T	.03	.01								17
18																	.06	T	T						18
19															T	.02	.02	T							19
20																.19	.09	T	T						20
21																									21
22														T	T	T									22
23																									23
24															.02	.13	T								24
25																									25
26																									26
27																									27
28																									28
29																									29
30																									30
31																									31

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Daniel B. Mitchell
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USCOMM--NOAA--ASHEVILLE 09/25/78 450

AUGUST 1978 TUCSON, ARIZONA

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SKY COVER TENTHS	CEILING HNDS. OF FT.	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW PT. °F	REL. HUM. %	WIND DIR	WIND SPEED KNOTS
DAY 01											
02	1	UNL	30			77	68	63	62	17	10
05	4	UNL	60			76	68	65	69	23	5
08	2	UNL	60			78	70	66	65	17	3
11	3	UNL	60			85	70	64	48	29	6
14	2	UNL	50			92	70	61	36	29	13
17	6	80	60			93	70	60	33	26	13
20	10	70	30		T	71	66	64	79	06	3
23	10	80	30			73	67	65	76	16	8
DAY 02											
02	10	80	30		RW	74	67	64	71	00	0
05	10	80	30		RW	74	68	66	76	10	7
08	10	130	50			76	69	66	71	20	5
11	3	UNL	60			82	70	65	56	28	9
14	1	UNL	50			89	70	62	41	27	10
17	4	UNL	60			90	70	61	38	31	8
20	0	UNL	30			86	67	58	39	28	9
23	0	UNL	30			80	69	64	58	21	4
DAY 03											
02	0	UNL	30			80	70	65	60	00	0
05	0	UNL	30			77	67	62	60	09	6
08	2	UNL	60			80	68	63	56	24	5
11	0	UNL	60			87	69	61	42	25	4
14	3	UNL	60			94	70	58	30	14	3
17	2	UNL	60			96	71	60	30	27	10
20	10	65	30		TRW	74	69	66	76	15	20
23	10	120	30			78	67	62	58	12	7
DAY 04											
02	10	120	30			77	68	64	64	16	10
05	6	110	30			77	66	61	56	08	4
08	8	UNL	60			82	68	61	49	12	9
11	2	UNL	60			92	71	61	36	14	12
14	8	90	60			93	70	60	33	15	10
17	10	90	60			85	69	61	45	28	12
20	10	80	20		TRW	73	69	67	82	13	18
23	10	90	30		RW	74	69	67	79	16	15
DAY 05											
02	0	UNL	30			76	70	67	74	00	0
05	1	UNL	30			73	67	63	71	13	6
08	0	UNL	60			81	68	62	53	11	10
11	0	UNL	60			88	69	58	38	12	16
14	1	UNL	60			93	68	55	28	13	7
17	2	UNL	60			95	67	52	23	11	11
20	0	UNL	30			91	67	54	29	08	7
23	0	UNL	30			84	66	56	38	12	8
DAY 06											
02	0	UNL	30			78	70	67	69	13	8
05	0	UNL	30			74	68	66	76	13	6
08	1	UNL	60			82	68	58	44	12	3
11	0	UNL	60			91	65	50	25	09	14
14	0	UNL	60			95	64	44	17	12	12
17	0	UNL	60			97	67	50	20	13	13
20	0	UNL	60			94	66	49	22	12	4
23	0	UNL	30			82	68	61	48	14	7
DAY 07											
02	0	UNL	30			78	68	63	60	17	5
05	0	UNL	30			74	66	63	69	15	8
08	0	UNL	30			80	68	63	56	11	5
11	0	UNL	60			91	68	57	32	22	5
14	0	UNL	60			98	69	50	19	14	7
17	1	UNL	60			99	68	51	20	27	5
20	2	UNL	50			95	67	51	22	33	5
23	10	80	30		TRW	88	67	55	32	23	7
DAY 08											
02	10	120	30			78	65	58	50	21	10
05	8	120	30			75	66	62	64	22	5
08	3	UNL	60			78	68	62	58	00	0
11	8	130	60			81	68	57	32	18	3
14	3	UNL	60			95	69	56	27	27	8
17	3	UNL	50			98	69	52	21	25	12
20	10	130	50		T	90	66	54	29	12	15
23	10	90	20		TRW	73	67	64	74	07	15
DAY 09											
02	10	120	30			73	67	65	76	02	3
05	7	UNL	30			73	66	64	74	11	5
08	5	UNL	60			78	67	62	58	15	10
11	0	UNL	60			88	68	57	35	11	4
14	2	UNL	60			96	69	56	26	15	8
17	6	UNL	60			96	68	53	23	21	4
20	8	250	60			88	67	57	35	34	7
23	10	120	30			83	71	66	57	15	12
DAY 10											
02	1	UNL	30			81	67	59	47	13	8
05	0	UNL	30			78	66	60	54	14	8
08	1	UNL	60			81	67	60	49	12	7
11	0	UNL	60			90	69	59	35	17	5
14	3	UNL	60			95	68	54	25	16	4
17	5	UNL	60			97	70	56	25	34	3
20	8	120	30			92	69	57	31	25	7
23	10	120	30			84	68	61	46	14	7
DAY 11											
02	7	110	30			78	68	63	60	18	6
05	10	90	30		T	77	69	65	67	08	5
08	8	90	60			77	68	64	64	15	8
11	1	UNL	60			87	68	59	39	31	5
14	2	UNL	60			93	69	57	30	23	9
17	8	120	45			95	69	56	27	29	10
20	10	70	15		TRW	73	67	64	74	24	10
23	10	140	30			73	68	65	79	16	6
DAY 12											
02	9	120	30			73	67	64	74	14	8
05	10	120	30			75	66	62	64	12	7
08	8	120	60			77	68	64	64	16	6
11	0	UNL	60			84	69	63	49	31	4
14	7	120	60			87	69	61	42	22	5
17	9	250	50			87	69	60	40	35	6
20	3	UNL	35			83	69	63	51	27	6
23	0	UNL	30			78	69	65	62	17	4
DAY 13											
02	0	UNL	30			76	69	66	71	13	7
05	0	UNL	45			74	69	66	76	14	6
08	0	UNL	50			78	68	64	62	14	8
11	3	UNL	50			86	67	58	39	05	3
14	5	UNL	60			92	68	56	30	29	7
17	5	UNL	60			93	67	54	27	29	4
20	1	UNL	35			88	66	53	30	28	6
23	0	UNL	30			82	64	53	37	27	7
DAY 14											
02	4	UNL	30			77	63	55	47	13	4
05	4	UNL	50			70	62	57	64	15	8
08	2	UNL	80			77	62	54	45	15	9
11	2	UNL	70			88	62	45	22	15	5
14	2	UNL	80			95	64	44	17	28	7
17	4	UNL	60			95	63	41	15	33	7
20	0	UNL	35			90	62	43	19	29	7
23	0	UNL	30			79	61	50	36	12	5
DAY 15											
02	0	UNL	30			73	60	51	46	16	7
05	0	UNL	30			70	58	50	49	15	8
08	0	UNL	60			76	61	52	43	15	8
11	0	UNL	60			90	64	49	24	16	3
14	0	UNL	70			96	65	45	17	28	8
17	2	UNL	70			98	65	45	16	26	6
20	0	UNL	35			94	63	44	18	35	5
23	0	UNL	30			85	62	48	28	16	7
DAY 16											
02	0	UNL	30			75	60	51	43	17	5
05	0	UNL	30			73	60	52	48	17	6
08	0	UNL	60			79	63	53	41	16	9
11	0	UNL	60			93	65	49	22	18	7
14	1	UNL	70			98	66	47	18	30	5
17	1	UNL	70			100	67	48	17	28	16
20	0	UNL	60			93	65	48	21	28	9
23	0	UNL	30			86	63	50	28	27	6
DAY 17											
02	0	UNL	30			80	63	54	41	14	6
05	0	UNL	30			76	62	55	48	14	5
08	0	UNL	60			83	68	64	53	16	6
11	5	90	60			92	71	62	37	29	8
14	9	90	40		TRW	88	72	66	48	21	16
17	4	UNL	60			86	71	65	50	04	4
20	5	90	30			86	72	66	51	17	4
23	3	UNL	30			84	71	66	55	14	3
DAY 18											
02	7	UNL	30			79	68	63	58	16	7
05	2	UNL	30			77	67	62	60	16	5
08	0	UNL	50			81	68	62	53	16	5
11	1	UNL	50			90	68	57	33	17	3
14	5	UNL	60			94	68	55	27	09	3
17	8	85	60		RW	88	69	60	39	08	9
20	8	UNL	30			85	68	58	41	06	7
23	9	UNL	30			82	69	63	53	00	0
DAY 19											
02	2	UNL	30			81	68	62	53	17	4
05	2	UNL	30			76	67	62	62	14	5
08	7	UNL	50			80	68	62	54	14	7
11	7	UNL	50			88	69	60	39	34	4
14	8	90	60		T	89	67	56	33	13	15
17	10	90	40		RW	77	70	67	71	04	6
20	4	UNL	30			76	69	66	71	16	6
23	1	UNL	30			76	67	62	62	15	6
DAY 20											
02	7	UNL	30			77	65	59	54	10	6
05	10	UNL	30			77	65	58	52	11	8
08	1	UNL	55			82	67	59	46	12	12
11	5	UNL	50			91	69	59	34	08	7
14	5	UNL	60			96	68	53	23	00	0
17	10	80	50			84	68	60	44	14	10
20	10	130	30			81	67	61	51	18	9
23	8	140	30			78	64	57	49	17	7
DAY 21											
02	10	140	30			79	63	55	44	16	8
05	10	120	30			77	65	59	54	17	7
08	10	100	45			76	65	60	58	18	3
11	8	250	45			87	66	56	35	19	5
14	5	UNL	60			94	67	53	25	33	10
17	5	UNL	60			95	65	47	19	25	13
20	2	UNL	30			90	65	49	24	28	5
23	3	UNL	30			83	65	55	38	10	10
DAY 22											
02	0	UNL	30			79	64	56	45	12	11
05	0	UNL	30			76	63	57	52	13	10
08	0	UNL	60			80	65	56	44	17	8
11	0	UNL	60			90	67	55	31	21	6
14	5	UNL	50		RW	94	67	52	24	18	5
17	8	300	60			86	67	58	39	25	8
20	9	90	30			85	69	61	45	26	6
23	10	120	30			82	67	60	47	16	5
DAY 23											
02	10	140	30			79	66	59	50	14	4
05	10	140	30			77	66	60	56	15	8
08	9	UNL	60			79	66	60	52	14	6
11	10	250	60			86	68	59	40	24	5
14	10	UNL	60			92	67	54	28	00	0
17	10	130	60			92	68	56	30	21	6
20	10	120	30			85	68	60	43	17	6
23	8	120	30			78	65	58	50	26	6
DAY 24											
02	10	120	30			77	64	58	52	11	7
05	4	UNL	30			76	64	57	52	12	7
08	4	UNL	60			79	66	59	50	15	8
11	0	UNL	60			89	67	56	33	31	3
14	7	250	60			93	68	55	28	31	3
17	9	80	50			85	69	61	45	17	5
20	9	120	30			81	65	58	46	14	7
23	5	UNL	30			78	70	66	67	14	5
DAY 25											
02	1	UNL	30			75	66	62	64	12	6
05	0	UNL	30			72	64	61	68	13	8
08	0	UNL	60			77	66	60	56	14	5
11	0	UNL	60			90	67	55	31	00	0
14	1	UNL	60			98	67	50	21	34	8
17	1	UNL	60			97	67	51	21	31	11
20	1	UNL	30			92	66	52	26	30	3
23	0	UNL	30			83	59	41	23	26	7
DAY 26											
02	0	UNL	30			77	63	55	47	18	4
05	0	UNL	30			73	60	53	50	18	5
08	0	UNL	70			81	64	54	39	13	9
11	0	UNL	70			92	64	46	20	16	8
14	0	UNL	60			100	65	42	14	26	12
17	7	UNL	60			99	65	42	14	27	14
20	0	UNL	30			91	62	43	19	28	7
23	0	UNL	30			83	61	48	30	00	0
DAY 27											
02	0	UNL	30			80	61	49	34	12	7
05	0	UNL	30			73	58	48	41	16	10
08	0	UNL	80			78	60	48	34	15	6
11	0	UNL	80			90	59	33	13	34	6
14	0	UNL	70			96	64	43	16	32	5
17	1	UNL	70			96	63	40	14	30	11
20	0	UNL	30			93	63	43	18	01	3
23	0	UNL	30			80	58	41	25	23	4
DAY 28											
02	0	UNL	30			75	58	45	34	16	6
05	0	UNL	30			71	59	52	51	13	6
08	0	UNL	60			79	63	53	41	14	11
11	0	UNL	60			92	62	42	18	08	3
14	4	UNL	60			96	65	46	18	29	12
17	5	UNL	60			98	64	41	14	28	13
20	0	UNL	30			92	61	37	14	32	6
23	0	UNL	30			81	61	49	33	11	6
DAY 29											
02	0	UNL	30			77	58	46	33	12	10
05	0	UNL	30			75	60	51	43	11	8
08	0	UNL	55			79	63	54	42	14	12
11	0	UNL	55			90	65	50	25	14	3
14	0	UNL	60			95	64	45	18	24	4
17	2	UNL	60			97	64	43	16	36	5
20	7	100	60			92	62	42	18	12	11
23	1	UNL	30			86	61	45	24	13	12
DAY 30											
02	0	UNL	30			81	60	45	28	12	10
05	0	UNL	30			79	59	45	30	12	12
08	0	UNL	60			84	61	46	27	12	11
11	0	UNL	60			91	63	45	20	13	11
14	0	UNL	60			96	64	44	17	15	10
17	1	UNL	60			96	64	43	16	14	8
20	0	UNL	30			91	62	43	19	10	6
23	0	UNL	30			85	61	45	25	12	7
DAY 31											
02	0	UNL	30			79	59	44	29	21	7
05	0	UNL	30			81	61	46	32	09	8
08	0	UNL	60			83	62	49	31	12	10
11	0	UNL	60			90	63	45	21	12	20
14	0	UNL	60			95	53	41	15	11	13
17	1	UNL	60			96	63	40	14	14	14
20	0	UNL	30			90	61	39	17	12	6
23	0	UNL	30			84	60	43	24	10	7

STATION

TUCSON ARIZONA

YEAR & MONTH

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NOTES

CEILING

UNL INDICATES UNLIMITED

WEATHER

- * TORNADO
- T THUNDERSTORM
- Q SQUALL
- R RAIN
- RW RAIN SHOWERS
- ZR FREEZING RAIN
- L DRIZZLE
- ZL FREEZING DRIZZLE
- S SNOW
- SP SNOW PELLETS
- IC ICE CRYSTALS
- SW SNOW SHOWERS
- SG SNOW GRAINS
- IP ICE PELLETS
- A HAIL
- F FOG
- IF ICE FOG
- GF GROUND FOG
- BD BLOWING DUST
- BN BLOWING SAND
- BS BLOWING SNOW
- BY BLOWING SPRAY
- K SMOKE
- H HAZE
- D DUST

WIND

DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS. INDICATED IN TENS OF DEGREES FROM TRUE NORTH: I.E., 09 FOR EAST, 18 FOR SOUTH, 27 FOR WEST. ENTRY OF 00 IN THE DIRECTION COLUMN INDICATES CALM.

SPEED IS EXPRESSED IN KNOTS; MULTIPLY BY 1.15 TO CONVERT TO MILES PER HOUR.

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