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Dataset_Info:
- Submission_Dates:
  - Initial_Submission: 20100928 (YYYYMMDD)
  - Revised_Submission: 20101210 (YYYYMMDD)

Cruise_Info:
- Experiment:
  - Experiment_Name:
  - Cruise: ( - )
    - Cruise_ID: (EXPOCODE)
    - Section: (Leg)
  - Geographical_Coverage:
    - Geographical Region:
    - Bounds:
      - Westernmost_Longitude:
        Enter decimal fractions of degrees:
      - Easternmost_Longitude:
        Enter decimal fractions of degrees: +146.55 (+ = E, - = W)
      - Northernmost_Latitude:
        Enter decimal fractions of degrees: +37.92 (+ = E, - = W)
      - Southernmost_Latitude:
        Enter decimal fractions of degrees:
  - Temporal_Coverage:
    - Start_Date: 20070218 (YYYYMMDD)
    - End_Date: 20071003 (YYYYMMDD)

Vessel:
- Mooring platform
  - Vessel_Name:
  - Vessel_ID:
  - Country:
  - Vessel_Owner:

Variables_Info:
- Variable:
  - Variable_Name and Description:
    - xCO2 SW (wet) (umol/mol) - Mole fraction of CO2 in air in equilibrium with the seawater at sea surface temperature and measured humidity.
    - CO2 SW QF – Quality Flag for xCO2 SW (wet).
    - H2O SW (mmol/mol) - Mole fraction of H2O in air from equilibrator .
    - xCO2 Air (wet) (umol/mol) - Mole fraction of CO2 in air from airblock, 4 feet above the sea surface at measured humidity.
    - CO2 Air QF – Quality Flag for xCO2 Air (wet)
    - H2O Air (mmol/mol) - Mole fraction of H2O in air from airblock, 4 feet above the sea surface.
- Licor Atm Pressure (hPa) – Atmospheric pressure at the airblock, 4 feet above the sea surface
- Licor Temp (C) – Temperature of the Infrared Licor 820 in degrees Celsius
- % O\textsubscript{2} - The percent oxygen of the surface seawater divided by the percent oxygen of the atmosphere at 4 feet above the sea surface. Disclaimer: The oxygen measurement is made in the equilibrated air. We have found that the oxygen does not come to complete equilibrium so any rapid changes in oxygen do not get properly captured using this system. Therefore, we tend to use the oxygen data only as a qualitative sense of the biology. It is not a quantitative measure.
- SST (C) - Sea Surface Temperature collected by IORGC/JAMSTEC. provide internally recorded SST data at 10 minute resolution. The sea surface temperature collected during the equilibration period is reported in this dataset. IORGC/JAMSTEC advises to check the JKEO site at the time of use for the most accurate data available.
- Salinity - Sea Surface Salinity collected by IORGC/JAMSTEC. JKEO records conductivity data at 10 minute intervals and then computes hourly averaged salinity during post-processing. The salinity reported during the equilibration period is reported in this dataset. IORGC/JAMSTEC advises to check the JKEO site at the time of use for the most accurate data available.

Sea surface salinity was only available from the beginning of the deployment to 7/17/07. For 7/17/07 12:16 through the end of the deployment, salinity collected at 30m depth was used to calculate fCO\textsubscript{2}. Analysis of salinity measurements at the surface compared to 30m when both were available 2/18/07 to 7/17/07 reveal that the largest salinity difference (~1.7) found between depths does not change calculated fCO\textsubscript{2}.
- xCO\textsubscript{2} SW (dry) (umol/mol) – Mole fraction of CO\textsubscript{2} in air in equilibrium with the seawater at sea surface temperature (dry air).
- xCO\textsubscript{2} Air (dry) (umol/mol) – Mole fraction of CO\textsubscript{2} in air at the airblock, 4 feet above the sea surface (dry air).
- fCO\textsubscript{2} SW (sat) uatm – Fugacity of CO\textsubscript{2} in air in equilibrium with the seawater at sea surface temperature (100% humidity). Since the measurements are taken at the sea surface, warming calculations are not necessary.
- fCO\textsubscript{2} Air (sat) uatm – Fugacity of CO\textsubscript{2} in air at the airblock, 4 feet above the sea surface (100% humidity).
- dfCO\textsubscript{2} – Difference of the fugacity of the CO\textsubscript{2} in seawater and the fugacity of the CO\textsubscript{2} in air (fCO\textsubscript{2} SW - fCO\textsubscript{2} Air).

Method Description:
- Equilibrator Design:
  - Equilibrator Type: (show pick list) Bubble Equilibrator
  - Equilibrator Volume: (L) N/A
  - Water Flow Rate: (L/min) N/A
  - Headspace Gas Flow Rate: (L/min) ~600 cc/min
  - Vented: (show pick list) Yes
- Measurement Method: Absolute, non-dispersive infrared (NDIR) gas analyzer
- Manufacturer of Calibration Gas: NOAA Earth System Research Laboratory (ESRL)
- CO\textsubscript{2} Sensors:
  - Manufacturer: Licor
  - Model: Environmental Control: LI-820
  - Resolution: 0.01 ppm
  - Uncertainty: < 2.5% of reading with 14 cm bench (stated)
  - < 1.5 ppm determined in lab
- **CO₂_Sensor Calibration:** (For each calibration gas, document traceability to an internationally recognized scale, including date and place of last calibration. Include uncertainty of assigned value.)
  At the beginning of each sample, the instrument self-calibrates using a zero and high standard. The zero standard is generated by cycling a small amount of air through a soda lime chamber. The high standard is from a cylinder of calibrated standard reference gas, 497.71 umol/mol from ESRL. ESRL standards are traceable to WMO x93 scale with a stated reproducibility of 0.06 micromole/mole.

- **Other_Sensors:**
  - **Oxygen Sensor**
    - Manufacturer: Maxtec
    - Model: Max-250
    - Resolution: 0.01 %
    - Uncertainty: ± 2.0% Full Scale over operating temperature range, ± 1.0% Full Scale @ constant temperature and pressure
  - Calibration: (For each sensor of pressure, temperature, and salinity, document traceability to an internationally recognized scale, including date and place of last calibration.)
    Factory calibrated before purchase. Recalibrated to sea level atmospheric air every 7 days.

- **Other_Sensors:**
  - **Humidity Sensor**
    - Manufacturer: Sensirion
    - Model: SHT71
    - Resolution: 0.01 %
    - Uncertainty: Measurement range: 0-100% RH
      Absolute. RH accuracy: +/- 3% RH (20-80% RH)
      Repeatability RH: +/- 0.1% RH
  - Calibration: (For each sensor of pressure, temperature, and salinity, document traceability to an internationally recognized scale, including date and place of last calibration.)
    Factory calibrated before purchase.

- **Method References:** (Publication(s) describing method)

- **Additional Information**
  - All measurements are at sea surface temperature and atmospheric pressure.
  - During the equilibration cycle, a closed loop of air equilibrates with seawater for 10 minutes. Once the equilibration period is complete, the pump stops and the system opens to the atmosphere allowing the pressure to equilibrate with atmospheric pressure. Measurements are recorded for 30 seconds at 2 hertz and then averaged.
  - During the air cycle, fresh air is pumped through the detector for 1 minute. Once the pump stops, the system opens to the atmosphere allowing the pressure to equilibrate with atmospheric pressure. Measurements are recorded for 30 seconds at 2 hertz and then averaged.
  - The gas streams for both the air cycle and equilibrator cycle are partially dried before entering the detector. The values listed as wet xCO₂ generally have relative humidity levels ranging from 40 to 80 percent. The humidity levels increase over the course of a deployment.
- Sampling occurs every 3 hours. The infrared detector is calibrated at the beginning of every sampling period. Averaged data and standard deviations for each measurement are transmitted back daily.

- To calculate the dry measurements, the water mole fraction in the Licor detector must be known. A relative humidity sensor is located immediately downstream of the detector.

- As part of the QC process, each data set is compared with the Marine Boundary Layer (MBL) data from GlobalView-CO₂. The data from this deployment, February 2007 to October 2007, were 0.3 ± 2.5 umol/mol on average of the MBL data and therefore no correction was applied.

GLOBALVIEW-CO₂: Cooperative Atmospheric Data Integration Project - Carbon Dioxide. CD-ROM, NOAA ESRL, Boulder, Colorado [Also available on Internet via anonymous FTP to ftp.cmdl.noaa.gov, Path: ccg/co2/GLOBALVIEW], 2010

-During the QC process, an adjustment to the Licor pressure is typically made based on each sensor’s bias to barometric pressure as measured in the lab. We have not yet run this test on this system.

- No data = -9.999 or -999

- Data set References: (Publication(s) describing data set) None

- Citation: (How to cite this data set) Sabine, C., S. Maenner and A. Sutton. 2010. High-resolution ocean and atmosphere pCO2 time-series measurements from mooring JKEO.

- Data Set Link:
  - Label*:PMEL CO2 Group - JKEO mooring
  - Link_Note: (Optional instructions or remarks)(m s t)

Quality Flags definitions:

2 = Acceptable measurement;
3 = Questionable measurement;
4 = Bad measurement
5 = Not reported;
9 = Sample not drown for this measurement from this bottle.

Quality Flag Log for this dataset.

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<th>Value (Dry)</th>
<th>Flag</th>
<th>Comments</th>
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</tbody>
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2/18/2007 19:03  xCO2_SW   360.1865651  4  likely bad CO2sw measurement due to change in equil pump pressure
2/18/2007 19:33  xCO2_SW   364.627949  4  likely bad CO2sw measurement due to change in equil pump pressure
2/18/2007 20:03  xCO2_SW   359.9604318  4  likely bad CO2sw measurement due to change in equil pump pressure
2/18/2007 20:33  xCO2_SW   360.2521388  4  likely bad CO2sw measurement due to change in equil pump pressure
2/18/2007 21:03  xCO2_SW   359.8789621  4  likely bad CO2sw measurement due to change in equil pump pressure
2/18/2007 21:33  xCO2_SW   359.3912448  4  likely bad CO2sw measurement due to change in equil pump pressure
2/18/2007 22:03  xCO2_SW   359.5690488  4  likely bad CO2sw measurement due to change in equil pump pressure
2/18/2007 22:33  xCO2_SW   359.369422  4  likely bad CO2sw measurement due to change in equil pump pressure
2/18/2007 23:03  xCO2_Air   390.1098428  3  CO2 data submitted was adjusted by + 2 ppm b/c span calibration was off as predicted by change in Licor temperature
2/18/2007 23:33  xCO2_SW   358.8182934  4  likely bad CO2sw measurement due to change in equil pump pressure
2/19/2007 0:03   xCO2_SW   358.5269094  4  likely bad CO2sw measurement due to change in equil pump pressure
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2/19/2007 1:03   xCO2_SW   358.3954237  4  likely bad CO2sw measurement due to change in equil pump pressure
2/19/2007 1:33   xCO2_SW   357.9342676  4  likely bad CO2sw measurement due to change in equil pump pressure
2/19/2007 3:16   xCO2_SW   358.3408887  4  likely bad CO2sw measurement due to change in equil pump pressure
2/19/2007 6:16   xCO2_SW   358.1268598  4  likely bad CO2sw measurement due to change in equil pump pressure
2/24/2007 12:16  xCO2_SW   361.4199202  4  likely bad CO2sw measurement due to change in equil pump pressure
2/24/2007 15:16  xCO2_SW   347.7231994  4  likely bad CO2sw measurement due to change in equil pump pressure
2/24/2007 21:16  xCO2_SW   361.8277403  4  likely bad CO2sw measurement due to change in equil pump pressure
2/25/2007 0:16   xCO2_SW   364.4911961  4  likely bad CO2sw measurement due to change in equil pump pressure
2/25/2007 6:16   xCO2_SW   365.0292217  4  likely bad CO2sw measurement due to change in equil pump pressure
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2/28/2007 15:16  xCO2_SW   358.4777106  4  likely bad CO2sw measurement due to change in equil pump pressure
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3/1/2007 12:16   xCO2_SW   355.3247304  4  likely bad CO2sw measurement due to change in equil pump pressure
3/1/2007 18:16   xCO2_SW   355.3604585  4  likely bad CO2sw measurement due to change in equil pump pressure
3/2/2007 0:16  xCO2_SW  367.3704402  4  likely bad CO2sw measurement due to change in equil pump pressure
3/11/2007 9:16  xCO2_SW  356.9079651  4  likely bad CO2sw measurement due to change in equil pump pressure
3/13/2007 0:16  xCO2_SW  360.2593979  4  likely bad CO2sw measurement due to change in equil pump pressure
3/18/2007 21:16 xCO2_SW  335.0376417  4  likely bad CO2sw measurement due to change in equil pump pressure
3/26/2007 6:16  xCO2_SW  344.5000795  3  CO2 data submitted was adjusted by -2 ppm b/c span calibration was off as predicted by change in Licor temperature
3/26/2007 6:16  xCO2_Air  391.7676505  3  CO2 data submitted was adjusted by -2 ppm b/c span calibration was off as predicted by change in Licor temperature
3/30/2007 9:16  xCO2_SW  368.3571041  3  likely bad CO2 sw may be due to change in equil pump pressure
3/30/2007 12:16 xCO2_SW  375.0949059  3  likely bad CO2 sw may be due to change in equil pump pressure
4/29/2007 9:16  xCO2_SW  335.7194037  4  high StDev in CO2sw measurement
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6/12/2007 3:16  xCO2_Air  382.0420705  4  CO2 air measurement bad - RH is high
6/17/2007 21:16 xCO2_Air  376.283524  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
6/18/2007 0:16  xCO2_Air  377.904827  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
6/18/2007 3:16  xCO2_Air  379.9472582  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
6/18/2007 6:16  xCO2_Air  380.9391717  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
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6/18/2007 15:16 xCO2_Air  381.374823  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
6/18/2007 21:16 xCO2_SW 314.9309319 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
6/19/2007 0:16 xCO2_Air 376.2641296 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
6/19/2007 0:16 xCO2_SW 312.6080228 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
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6/19/2007 6:16 xCO2_Air 379.9622 735 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
6/19/2007 6:16 xCO2_SW 317.7304756 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
6/19/2007 9:16 xCO2_Air 380.952635 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
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6/19/2007 18:16 xCO2_Air 379.5480415 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
6/19/2007 18:16 xCO2_SW 315.1176414 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
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6/20/2007 3:16 xCO2_SW 315.6767982 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
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6/20/2007 12:16 xCO2_Air 384.0071232 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
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6/21/2007 0:16 xCO2_SW 325.7856895 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
6/21/2007 3:16 xCO2_Air 379.2071837 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
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Note: MAPCO2 CO2 air is more than 4 ppm below MBL indicates that the CO2 air measurements are questionable due to low CO2 levels and other diagnostic clues.
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7/8/2007 21:16 xCO2_Air 377.4449918 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/8/2007 21:16 xCO2_SW 334.065863 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/9/2007 0:16 xCO2_Air 374.1934835 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/9/2007 0:16 xCO2_SW 328.0625436 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/9/2007 3:16 xCO2_Air 376.2900852 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/9/2007 3:16 xCO2_SW 330.7718592 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/9/2007 6:16 xCO2_Air 376.2900852 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/9/2007 6:16 xCO2_SW 339.5708466 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/9/2007 9:16 xCO2_Air 377.1653408 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/9/2007 9:16 xCO2_SW 344.4389495 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/9/2007 12:16 xCO2_Air 376.1041154 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/9/2007 12:16 xCO2_SW 340.3026706 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/9/2007 15:16 xCO2_Air 375.7203389 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/9/2007 15:16 xCO2_SW 338.7535584 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/9/2007 18:16 xCO2_Air 376.2432435 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/9/2007 18:16 xCO2_SW 335.3620254 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/9/2007 21:16 xCO2_Air 375.5739606 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/9/2007 21:16 xCO2_SW 337.1513376 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/10/2007 0:16 xCO2_Air 370.9083215 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/10/2007 0:16 xCO2_SW 337.1513376 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/10/2007 3:16 xCO2_Air 368.6203718 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/10/2007 3:16 xCO2_SW 342.2519591 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/10/2007 6:16 xCO2_Air 367.3460105 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/10/2007 6:16 xCO2_SW 352.0936296 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/10/2007 9:16 xCO2_Air 373.3080761 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/10/2007 9:16 xCO2_SW 349.8925202 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/10/2007 12:16 xCO2_Air 373.1320712 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/10/2007 12:16 xCO2_SW 346.1156723 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/10/2007 15:16 xCO2_Air 373.0093294 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/10/2007 15:16 xCO2_SW 349.8925202 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/10/2007 18:16 xCO2_Air 374.9161321 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/10/2007 18:16 xCO2_SW 337.2765598 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/10/2007 21:16 xCO2_Air 375.5739606 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/10/2007 21:16 xCO2_SW 337.2765598 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/10/2007 0:16 xCO2_Air 370.9083215 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
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bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL

low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/14/2007 6:16  xCO2_SW  333.9798595  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/14/2007 9:16  xCO2_Air  376.3625934  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/14/2007 9:16  xCO2_SW  335.6030803  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/14/2007 12:16  xCO2_Air  376.1032209  4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/14/2007 12:16  xCO2_SW  333.3246616  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/14/2007 15:16  xCO2_Air  376.8816633  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/14/2007 15:16  xCO2_SW  339.4853214  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/14/2007 18:16  xCO2_Air  376.6872778  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/14/2007 21:16  xCO2_SW  338.0450842  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/14/2007 21:16  xCO2_Air  376.8904664  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/14/2007 21:16  xCO2_SW  335.3316266  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/15/2007 0:16  xCO2_Air  377.0008669  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/15/2007 0:16  xCO2_SW  336.5132591  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/15/2007 3:16  xCO2_Air  375.3759321  4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/15/2007 3:16  xCO2_SW  333.7295714  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/15/2007 6:16  xCO2_Air  376.8119543  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/15/2007 6:16  xCO2_SW  339.5919533  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/15/2007 9:16  xCO2_Air  376.4575842  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/15/2007 9:16  xCO2_SW  335.9711485  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/15/2007 12:16  xCO2_Air  375.6842735  4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/15/2007 12:16  xCO2_SW  344.4577377  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/15/2007 15:16  xCO2_Air  375.1182215  4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/15/2007 15:16  xCO2_SW  341.1805488  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/15/2007 18:16  xCO2_Air  375.4630804  4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/15/2007 18:16  xCO2_SW  339.6307017  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/15/2007 21:16  xCO2_Air  374.6010503  4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/15/2007 21:16  xCO2_SW  338.3200886  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/16/2007 0:16  xCO2_Air  375.7601832  4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/16/2007 0:16  xCO2_SW  340.0979959  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
more than 4 ppm below MBL

diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment

7/16/2007 3:16  xCO2_Air    376.5777617   3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/16/2007 3:16  xCO2_SW     337.2263466   3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/16/2007 6:16  xCO2_Air    376.7808889   3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/16/2007 6:16  xCO2_SW     343.2963379   3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/16/2007 9:16  xCO2_Air    377.6631314   3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/16/2007 9:16  xCO2_SW     337.7468417   3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/16/2007 12:16 xCO2_Air    377.3625468   3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/16/2007 12:16 xCO2_SW     336.1961084   3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/16/2007 15:16 xCO2_Air    375.7594727   4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/16/2007 15:16 xCO2_SW     335.6083402   3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/16/2007 18:16 xCO2_Air    376.3096644   3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/16/2007 18:16 xCO2_SW     336.9960789   3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/16/2007 21:16 xCO2_Air    377.0362097   3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/16/2007 21:16 xCO2_SW     337.1778386   3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/17/2007 0:16  xCO2_Air    374.7369515   4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/17/2007 0:16  xCO2_SW     334.1587158   3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/17/2007 3:16  xCO2_Air    370.5937962   4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/17/2007 3:16  xCO2_SW     330.0758361   3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/17/2007 6:16  xCO2_Air    373.25813   4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/17/2007 6:16  xCO2_SW     331.6642835   3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/17/2007 9:16  xCO2_Air    377.3377411   3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/17/2007 9:16  xCO2_SW     335.5594709   3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/17/2007 12:16 xCO2_Air    377.4769716   3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/17/2007 12:16 xCO2_SW     332.6466115   3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/17/2007 15:16 xCO2_Air    377.6595674   3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/17/2007 15:16 xCO2_SW     332.8034395   3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/17/2007 18:16 xCO2_Air    377.8378304   3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/17/2007 18:16 xCO2_SW     332.4013648   3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/17/2007 21:16 xCO2_Air    375.9657693   4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/17/2007 21:16 xCO2_SW 329.0261063 3 low CO2 air measurements and other clues in
diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment

7/18/2007 0:16 xCO2_Air 369.264612 4 bad CO2 air measurement; MAPCO2 CO2 air is more
than 4 ppm below MBL
7/18/2007 0:16 xCO2_SW 330.0082474 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment

7/18/2007 3:16 xCO2_Air 368.6024656 4 bad CO2 air measurement; MAPCO2 CO2 air is more
than 4 ppm below MBL
7/18/2007 3:16 xCO2_SW 338.4364633 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment

7/18/2007 6:16 xCO2_Air 371.6517176 4 bad CO2 air measurement; MAPCO2 CO2 air is more
than 4 ppm below MBL
7/18/2007 6:16 xCO2_SW 333.4906094 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment

7/18/2007 9:16 xCO2_Air 377.4244603 3 low CO2 air measurements and other clues in diagnostics
make measurements questionable from 6/17/07 to end of deployment
7/18/2007 9:16 xCO2_SW 338.9147817 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment

7/18/2007 12:16 xCO2_Air 377.4571865 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/18/2007 12:16 xCO2_SW 334.2290058 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment

7/18/2007 15:16 xCO2_Air 373.7370392 4 bad CO2 air measurement; MAPCO2 CO2 air is more
than 4 ppm below MBL
7/18/2007 15:16 xCO2_SW 332.7486209 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/19/2007 18:16  xCO2_Air  374.0374881  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/19/2007 18:16  xCO2_SW  333.4646236  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/19/2007 21:16  xCO2_Air  372.5303039  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/19/2007 21:16  xCO2_SW  330.3100864  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/20/2007 0:16   xCO2_Air  367.6545177  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/20/2007 0:16   xCO2_SW  327.520621  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/20/2007 3:16   xCO2_Air  369.1232134  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/20/2007 3:16   xCO2_SW  328.1270385  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/20/2007 6:16   xCO2_Air  369.5340686  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/20/2007 6:16   xCO2_SW  328.8117248  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/20/2007 9:16   xCO2_Air  370.0227234  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/20/2007 9:16   xCO2_SW  329.6751145  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/20/2007 12:16  xCO2_Air  368.2968986  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/20/2007 12:16  xCO2_SW  330.2347326  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/20/2007 15:16  xCO2_Air  369.1525214  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/20/2007 15:16  xCO2_SW  328.4944022  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/20/2007 18:16  xCO2_Air  369.7032712  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/20/2007 18:16  xCO2_SW  334.767643  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/20/2007 21:16  xCO2_Air  366.0255289  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/20/2007 21:16  xCO2_SW  333.7400207  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/21/2007 0:16   xCO2_Air  366.5189967  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/21/2007 0:16   xCO2_SW  334.4214972  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/21/2007 3:16   xCO2_Air  366.6303507  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/21/2007 3:16   xCO2_SW  336.7334853  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/21/2007 6:16   xCO2_Air  369.9741041  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/21/2007 6:16   xCO2_SW  334.767643  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/21/2007 9:16   xCO2_Air  370.048764  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/21/2007 9:16   xCO2_SW  338.0688317  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/21/2007 12:16  xCO2_Air  370.202647  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/21/2007 12:16  xCO2_SW  337.2714003  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
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7/30/2007 0:16 xCO2_Air 368.6100573 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/30/2007 0:16 xCO2_Sw 344.1741216 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/30/2007 3:16 xCO2_Air 369.0784596 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/30/2007 3:16 xCO2_Sw 346.5428455 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/30/2007 6:16 xCO2_Air 369.6140095 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
7/30/2007 6:16 xCO2_Sw 343.767429 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/30/2007 9:16 xCO2_Air 377.0450536 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/30/2007 9:16 xCO2_Sw 346.0186903 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/30/2007 12:16 xCO2_Air 377.3589576 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/30/2007 12:16 xCO2_Sw 348.3356097 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/30/2007 15:16  xCO2_Air  377.6426746  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/30/2007 15:16  xCO2_SW  349.9799742  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/30/2007 18:16  xCO2_Air  375.9897345  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/30/2007 18:16  xCO2_SW  351.4228448  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
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7/30/2007 21:16  xCO2_SW  347.1581772  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
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7/31/2007 3:16  xCO2_SW  346.4636145  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
7/31/2007 6:16  xCO2_Air  374.8562727  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
7/31/2007 6:16  xCO2_SW  346.9635379  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
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make CO2 sw measurements questionable from 6/17/07 to end of deployment

8/3/2007 3:16
than 4 ppm below MBL

make CO2 sw measurements questionable from 6/17/07 to end of deployment

8/3/2007 0:16
than 4 ppm below MBL

make CO2 sw measurements questionable from 6/17/07 to end of deployment

8/2/2007 21:16
make CO2 sw measurements questionable from 6/17/07 to end of deployment

8/2/2007 18:16
make CO2 sw measurements questionable from 6/17/07 to end of deployment

8/2/2007 15:16
make CO2 sw measurements questionable from 6/17/07 to end of deployment

8/2/2007 12:16
make CO2 sw measurements questionable from 6/17/07 to end of deployment

8/2/2007 9:16
than 4 ppm below MBL

make CO2 sw measurements questionable from 6/17/07 to end of deployment

8/2/2007 6:16
make CO2 sw measurements questionable from 6/17/07 to end of deployment
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8/4/2007 12:16 xCO2_Air  378.9482414  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
make CO2 sw measurements questionable from 6/17/07 to end of deployment
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Note: The dates and times indicate when measurements were made, and the xCO2_SW and xCO2_Air values are the concentrations of CO2 in the seawater and air, respectively. The notes section provides additional information about the measurements, such as their questionable status or the presence of bad CO2 measurements.
than 4 ppm below MBL
bad CO2 air measurement; MAPCO2 CO2 air is more
make CO2 sw measurements questionable from 6/17/07 to end of deployment
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8/8/2007 15:16 xCO2_SW 378.9265502 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/8/2007 18:16 xCO2_Air 378.9394583 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/8/2007 21:16 xCO2_SW 378.2303361 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/9/2007 0:16 xCO2_Air 369.391128 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/9/2007 0:16 xCO2_SW 374.6507591 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/9/2007 3:16 xCO2_Air 368.8915611 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/9/2007 3:16 xCO2_SW 391.3427462 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/9/2007 6:16 xCO2_Air 377.7262047 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/9/2007 9:16 xCO2_Air 387.9883393 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment
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8/9/2007 12:16 xCO2_SW 379.5259462 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/9/2007 15:16 xCO2_Air 379.1326379 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/9/2007 15:16 xCO2_SW 379.5259462 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/9/2007 18:16 xCO2_Air 378.985147 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/9/2007 18:16 xCO2_SW 380.6462224 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/9/2007 21:16 xCO2_Air 372.9404969 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
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make CO2 sw measurements questionable from 6/17/07 to end of deployment
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make CO2 sw measurements questionable from 6/17/07 to end of deployment
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make CO2 sw measurements questionable from 6/17/07 to end of deployment
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make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/10/2007 12:16 \(x\text{CO}_2\) Air 381.1964736 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment

8/10/2007 12:16 \(x\text{CO}_2\) SW 424.6475132 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment

8/10/2007 15:16 \(x\text{CO}_2\) Air 383.0183112 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment

8/10/2007 15:16 \(x\text{CO}_2\) SW 396.0083146 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment

8/10/2007 18:16 \(x\text{CO}_2\) Air 382.0808212 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment

8/10/2007 18:16 \(x\text{CO}_2\) SW 405.2616585 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment

8/10/2007 21:16 \(x\text{CO}_2\) Air 375.4403367 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment

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more than 4 ppm below MBL
8/14/2007 3:16 xCO2_Air  373.9302257  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/14/2007 3:16 xCO2_SW  414.3621574  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/14/2007 6:16 xCO2_Air  375.7341867  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/14/2007 6:16 xCO2_SW  413.1768966  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/14/2007 9:16 xCO2_Air  378.9321621  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/14/2007 9:16 xCO2_SW  418.4100888  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/14/2007 12:16 xCO2_Air  378.9682833  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/14/2007 12:16 xCO2_SW  408.169471  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/14/2007 15:16 xCO2_Air  379.1637986  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/14/2007 15:16 xCO2_SW  408.4954661  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/14/2007 18:16 xCO2_Air  379.2196755  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/14/2007 18:16 xCO2_SW  415.2058769  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/14/2007 21:16 xCO2_Air  378.0028656  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/14/2007 21:16 xCO2_SW  412.0140544  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/15/2007 0:16 xCO2_Air  368.4755455  4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/15/2007 0:16 xCO2_SW  405.8314357  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/15/2007 3:16 xCO2_Air  375.6824821  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/15/2007 3:16 xCO2_SW  410.0828583  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/15/2007 6:16 xCO2_Air  377.145963  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/15/2007 6:16 xCO2_SW  413.23327  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/15/2007 9:16 xCO2_Air  386.9865892  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/15/2007 9:16 xCO2_SW  422.0868447  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/15/2007 12:16 xCO2_Air  385.4471994  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/15/2007 12:16 xCO2_SW  419.6975622  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/15/2007 15:16 xCO2_Air  383.5624838  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/15/2007 15:16 xCO2_SW  421.1171922  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/15/2007 18:16 xCO2_Air  383.6074505  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/15/2007 18:16 xCO2_SW  420.0950305  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/15/2007 21:16 xCO2_Air  391.1979493  3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/15/2007 21:16 xCO2_SW 414.5335162 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/16/2007 0:16 xCO2_Air 385.4422257 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/16/2007 0:16 xCO2_Sw 416.0270598 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/16/2007 3:16 xCO2_Air 385.556677 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/16/2007 3:16 xCO2_Sw 423.7032098 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/16/2007 6:16 xCO2_Air 386.0379644 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/16/2007 6:16 xCO2_Sw 428.1138863 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/16/2007 9:16 xCO2_Air 386.5966876 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/16/2007 9:16 xCO2_Sw 432.8894942 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/16/2007 12:16 xCO2_Air 387.6032808 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/16/2007 12:16 xCO2_Sw 427.0478015 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/16/2007 15:16 xCO2_Air 386.0307547 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/16/2007 15:16 xCO2_Sw 430.189147 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/16/2007 18:16 xCO2_Air 378.5916036 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/16/2007 18:16 xCO2_Sw 423.5671322 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/16/2007 21:16 xCO2_Air 374.2129308 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/16/2007 21:16 xCO2_Sw 405.9252772 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/17/2007 0:16 xCO2_Air 370.3401814 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/17/2007 0:16 xCO2_Sw 403.4945047 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/17/2007 3:16 xCO2_Air 372.3246291 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/17/2007 3:16 xCO2_Sw 396.8879123 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/17/2007 6:16 xCO2_Air 371.2080322 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/17/2007 6:16 xCO2_Sw 389.4914528 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/17/2007 9:16 xCO2_Air 370.7940624 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/17/2007 9:16 xCO2_Sw 384.257972 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/17/2007 12:16 xCO2_Air 370.2015419 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/17/2007 12:16 xCO2_Sw 381.1917992 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/17/2007 15:16 xCO2_Air 371.1102614 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/17/2007 15:16 xCO2_Sw 378.7649639 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
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bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL

low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/19/2007 12:16  xCO2_SW  370.6044775  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/19/2007 15:16  xCO2_Air  372.6574144  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/19/2007 15:16  xCO2_SW  372.0541847  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/19/2007 18:16  xCO2_Air  372.1186533  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/19/2007 18:16  xCO2_SW  368.8753289  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/19/2007 21:16  xCO2_Air  366.8783587  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/19/2007 21:16  xCO2_SW  364.3503893  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/20/2007 0:16  xCO2_Air  364.0735924  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/20/2007 0:16  xCO2_SW  369.8366527  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/20/2007 3:16  xCO2_Air  365.4731755  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/20/2007 3:16  xCO2_SW  384.0944925  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/20/2007 6:16  xCO2_Air  366.0012554  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/20/2007 6:16  xCO2_SW  392.7735482  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/20/2007 9:16  xCO2_Air  374.5334151  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/20/2007 9:16  xCO2_SW  398.8908104  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/20/2007 12:16  xCO2_Air  373.4613094  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/20/2007 12:16  xCO2_SW  390.4523449  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/20/2007 15:16  xCO2_Air  373.5035212  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/20/2007 15:16  xCO2_SW  395.2120201  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/20/2007 18:16  xCO2_Air  374.0038943  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/20/2007 18:16  xCO2_SW  389.1605435  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/20/2007 21:16  xCO2_Air  370.933925  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/20/2007 21:16  xCO2_SW  386.0679071  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/21/2007 0:16  xCO2_Air  367.4428149  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/21/2007 0:16  xCO2_SW  390.6014276  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/21/2007 3:16  xCO2_Air  371.608048  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/21/2007 3:16  xCO2_SW  393.7093149  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/21/2007 6:16  xCO2_Air  373.993665  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/21/2007 6:16  xCO2_SW  400.8655993  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/21/2007 9:16 xCO2_Air 380.5019616 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/21/2007 9:16 xCO2_Air 380.5019616 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/21/2007 9:16 xCO2_Air 380.5019616 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/21/2007 12:16 xCO2_Air 380.8195541 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/21/2007 12:16 xCO2_Air 380.8195541 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/21/2007 12:16 xCO2_Air 380.8195541 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/21/2007 12:16 xCO2_Air 380.8195541 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/21/2007 15:16 xCO2_Air 380.8655727 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/21/2007 15:16 xCO2_Air 380.8655727 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/21/2007 15:16 xCO2_Air 380.8655727 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/21/2007 15:16 xCO2_Air 380.8655727 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/21/2007 18:16 xCO2_Air 380.4433098 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/21/2007 18:16 xCO2_Air 380.4433098 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/21/2007 18:16 xCO2_Air 380.4433098 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/21/2007 21:16 xCO2_Air 395.5833517 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/21/2007 21:16 xCO2_Air 378.5178657 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/21/2007 21:16 xCO2_Air 378.5178657 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/22/2007 0:16 xCO2_Air 379.5071831 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/22/2007 0:16 xCO2_Air 379.5071831 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/22/2007 0:16 xCO2_Air 379.5071831 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/22/2007 3:16 xCO2_Air 379.1077285 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/22/2007 3:16 xCO2_Air 379.1077285 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/22/2007 3:16 xCO2_Air 379.1077285 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/22/2007 3:16 xCO2_Air 379.1077285 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/22/2007 6:16 xCO2_Air 378.8087181 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/22/2007 6:16 xCO2_Air 378.8087181 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/22/2007 6:16 xCO2_Air 378.8087181 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/22/2007 9:16 xCO2_Air 379.2593523 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/22/2007 9:16 xCO2_Air 379.2593523 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/22/2007 9:16 xCO2_Air 379.2593523 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/22/2007 12:16 xCO2_Air 378.3344259 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/22/2007 12:16 xCO2_Air 378.3344259 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/22/2007 12:16 xCO2_Air 378.3344259 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/22/2007 15:16 xCO2_Air 378.1908455 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/22/2007 15:16 xCO2_Air 378.1908455 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/22/2007 15:16 xCO2_Air 378.1908455 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/22/2007 18:16 xCO2_Air 378.7117226 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/22/2007 18:16 xCO2_Air 378.7117226 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/22/2007 18:16 xCO2_Air 378.7117226 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/22/2007 21:16 xCO2_Air 379.8100906 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/22/2007 21:16 xCO2_Air 379.8100906 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/22/2007 21:16 xCO2_Air 379.8100906 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/22/2007 21:16 xCO2_Air 379.8100906 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
8/23/2007 0:16 xCO2_Air 370.5725657 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/23/2007 0:16 xCO2_Air 370.5725657 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/23/2007 3:16 xCO2_Air 364.1179185 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/23/2007 3:16 xCO2_Air 364.1179185 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/23/2007 3:16 xCO2_SW 383.3353538 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/23/2007 6:16 xCO2_Air 365.9486069 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/23/2007 6:16 xCO2_SW 387.7352374 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/23/2007 9:16 xCO2_Air 370.7289369 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/23/2007 9:16 xCO2_SW 389.7603915 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/23/2007 12:16 xCO2_Air 370.7737985 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/23/2007 12:16 xCO2_SW 389.337254 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/23/2007 15:16 xCO2_Air 370.8399871 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/23/2007 15:16 xCO2_SW 389.6946506 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/23/2007 18:16 xCO2_Air 370.2735468 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/23/2007 18:16 xCO2_SW 388.7850683 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/24/2007 0:16 xCO2_Air 358.153211 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/24/2007 0:16 xCO2_SW 389.2181222 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/24/2007 3:16 xCO2_Air 360.0425662 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/24/2007 3:16 xCO2_SW 383.8075268 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/24/2007 6:16 xCO2_Air 369.3509552 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/24/2007 6:16 xCO2_SW 389.6946506 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/24/2007 9:16 xCO2_Air 371.6711971 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
8/24/2007 9:16 xCO2_SW 400.7729664 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
8/24/2007 12:16 xCO2_Air 371.7877547 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
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9/6/2007 3:16 xCO2_Air 380.4253478 3 low CO2 air measurements and other clues in diagnostics
make measurements questionable from 6/17/07 to end of deployment
9/6/2007 3:16 xCO2_SW 437.2948258 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/6/2007 6:16 xCO2_Air 377.6148874 3 low CO2 air measurements and other clues in diagnostics
make measurements questionable from 6/17/07 to end of deployment
9/6/2007 6:16 xCO2_SW 423.5923258 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/6/2007 9:16 xCO2_Air 377.753701 3 low CO2 air measurements and other clues in diagnostics
make measurements questionable from 6/17/07 to end of deployment
9/6/2007 9:16 xCO2_SW 431.3439245 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/6/2007 12:16 xCO2_Air 378.4031617 3 low CO2 air measurements and other clues in diagnostics
make measurements questionable from 6/17/07 to end of deployment
9/6/2007 12:16 xCO2_SW 423.8745449 3 low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/6/2007 15:16 xCO2_Air 378.6389223 3 low CO2 air measurements and other clues in diagnostics
make measurements questionable from 6/17/07 to end of deployment
9/6/2007 15:16 xCO2_SW 423.2816451 3 low CO2 air measurements and other clues in diagnostics
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<td>low CO2 air measurements and other clues in diagnostics</td>
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Note: The measurements were questionable from 6/17/07 to end of deployment.
than 4 ppm below MBL
9/10/2007 6:16  xCO2_SW  414.0938008  3  low CO2 air measurements and other clues in diagnostics 
make CO2 sw measurements questionable from 6/17/07 to end of deployment 
9/10/2007 9:16  xCO2_Air  379.0025356  3  low CO2 air measurements and other clues in diagnostics 
make measurements questionable from 6/17/07 to end of deployment 
9/10/2007 9:16  xCO2_SW  411.7581765  3  low CO2 air measurements and other clues in diagnostics 
make CO2 sw measurements questionable from 6/17/07 to end of deployment 
9/10/2007 12:16  xCO2_Air  379.4439976  3  low CO2 air measurements and other clues in diagnostics 
make measurements questionable from 6/17/07 to end of deployment 
9/10/2007 12:16  xCO2_SW  409.605602  3  low CO2 air measurements and other clues in diagnostics 
make CO2 sw measurements questionable from 6/17/07 to end of deployment 
9/10/2007 15:16  xCO2_Air  378.831385  3  low CO2 air measurements and other clues in diagnostics 
make measurements questionable from 6/17/07 to end of deployment 
9/10/2007 15:16  xCO2_SW  408.3020614  3  low CO2 air measurements and other clues in diagnostics 
make CO2 sw measurements questionable from 6/17/07 to end of deployment 
9/10/2007 18:16  xCO2_Air  378.5442332  3  low CO2 air measurements and other clues in diagnostics 
make measurements questionable from 6/17/07 to end of deployment 
9/10/2007 21:16  xCO2_Air  377.3106709  3  low CO2 air measurements and other clues in diagnostics 
make CO2 sw measurements questionable from 6/17/07 to end of deployment 
9/10/2007 21:16  xCO2_SW  401.999127  3  low CO2 air measurements and other clues in diagnostics 
make CO2 sw measurements questionable from 6/17/07 to end of deployment 
9/11/2007 0:16  xCO2_Air  373.1861541  4  bad CO2 air measurement; MAPCO2 CO2 air is more 
than 4 ppm below MBL 
9/11/2007 0:16  xCO2_SW  410.39027  3  low CO2 air measurements and other clues in diagnostics 
make CO2 sw measurements questionable from 6/17/07 to end of deployment 
9/11/2007 3:16  xCO2_Air  376.7373588  3  low CO2 air measurements and other clues in diagnostics 
make measurements questionable from 6/17/07 to end of deployment 
9/11/2007 3:16  xCO2_SW  414.9673666  3  low CO2 air measurements and other clues in diagnostics 
make CO2 sw measurements questionable from 6/17/07 to end of deployment 
9/11/2007 6:16  xCO2_Air  378.328418  3  low CO2 air measurements and other clues in diagnostics 
make measurements questionable from 6/17/07 to end of deployment 
9/11/2007 6:16  xCO2_SW  417.3237404  3  low CO2 air measurements and other clues in diagnostics 
make CO2 sw measurements questionable from 6/17/07 to end of deployment 
9/11/2007 9:16  xCO2_Air  378.7470185  3  low CO2 air measurements and other clues in diagnostics 
make measurements questionable from 6/17/07 to end of deployment 
9/11/2007 9:16  xCO2_SW  415.7014054  3  low CO2 air measurements and other clues in diagnostics 
make CO2 sw measurements questionable from 6/17/07 to end of deployment 
9/11/2007 12:16  xCO2_Air  379.0027828  3  low CO2 air measurements and other clues in diagnostics 
make measurements questionable from 6/17/07 to end of deployment 
9/11/2007 15:16  xCO2_Air  377.3685782  3  low CO2 air measurements and other clues in diagnostics 
make measurements questionable from 6/17/07 to end of deployment 
9/11/2007 15:16  xCO2_SW  414.8513858  3  low CO2 air measurements and other clues in diagnostics 
make CO2 sw measurements questionable from 6/17/07 to end of deployment 
9/11/2007 18:16  xCO2_Air  377.9481136  3  low CO2 air measurements and other clues in diagnostics 
make measurements questionable from 6/17/07 to end of deployment 
9/11/2007 18:16  xCO2_SW  418.2331089  3  low CO2 air measurements and other clues in diagnostics 
make CO2 sw measurements questionable from 6/17/07 to end of deployment 
9/11/2007 21:16  xCO2_Air  375.1880303  3  low CO2 air measurements and other clues in diagnostics 
make measurements questionable from 6/17/07 to end of deployment 
9/11/2007 21:16  xCO2_SW  417.5137242  3  low CO2 air measurements and other clues in diagnostics 
make CO2 sw measurements questionable from 6/17/07 to end of deployment 
9/12/2007 0:16  xCO2_Air  375.9387208  3  low CO2 air measurements and other clues in diagnostics 
make measurements questionable from 6/17/07 to end of deployment 
9/12/2007 0:16  xCO2_SW  418.6848804  3  low CO2 air measurements and other clues in diagnostics 
make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/12/2007 3:16 xCO2_Air 377.4803684 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/12/2007 3:16 xCO2_SW 427.1312713 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/12/2007 6:16 xCO2_Air 378.4506422 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/12/2007 6:16 xCO2_SW 427.7673169 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/12/2007 9:16 xCO2_Air 378.9556068 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/12/2007 9:16 xCO2_SW 448.2827926 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/12/2007 12:16 xCO2_Air 377.5313649 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/12/2007 12:16 xCO2_SW 413.8709965 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/12/2007 15:16 xCO2_Air 377.7975488 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/12/2007 15:16 xCO2_SW 405.8679655 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/12/2007 18:16 xCO2_Air 376.4664978 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/12/2007 18:16 xCO2_SW 396.4146351 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/12/2007 21:16 xCO2_Air 374.7341119 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/12/2007 21:16 xCO2_SW 384.4163788 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/13/2007 0:16 xCO2_Air 368.7145485 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
9/13/2007 0:16 xCO2_SW 385.6569033 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/13/2007 3:16 xCO2_Air 370.3437918 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
9/13/2007 3:16 xCO2_SW 393.6477646 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
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9/13/2007 6:16 xCO2_SW 385.565145 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
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9/13/2007 9:16 xCO2_SW 393.12017 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
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9/13/2007 21:16  xCO2_SW  420.008761  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/14/2007 0:16  xCO2_Air   378.6892248  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/14/2007 0:16  xCO2_SW   393.6392246  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/14/2007 3:16  xCO2_Air   374.1040302  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
9/14/2007 3:16  xCO2_SW   380.0502672  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/14/2007 6:16  xCO2_Air   369.3459814  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
9/14/2007 6:16  xCO2_SW   371.9336794  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/14/2007 9:16  xCO2_Air   370.4979176  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
9/14/2007 9:16  xCO2_SW   371.3413886  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/14/2007 12:16 xCO2_Air   375.6455572  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/14/2007 12:16 xCO2_SW   378.8702639  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/14/2007 15:16 xCO2_Air   375.5706463  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/14/2007 15:16 xCO2_SW   385.6979215  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/14/2007 18:16 xCO2_Air   374.9160277  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/14/2007 18:16 xCO2_SW   387.3024323  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/14/2007 21:16 xCO2_Air   369.2697065  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
9/14/2007 21:16 xCO2_SW   382.5058017  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/15/2007 0:16  xCO2_Air   367.257841  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
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9/15/2007 3:16  xCO2_Air   369.0765205  4  bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
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9/15/2007 6:16  xCO2_SW   380.502672  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/15/2007 9:16  xCO2_Air   378.8702639  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/15/2007 12:16 xCO2_Air   377.2570976  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
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9/17/2007 9:16 xCO2_Air 377.0798942 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/17/2007 9:16 xCO2_SW 391.7160165 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/17/2007 12:16 xCO2_Air 378.2339823 3 low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/17/2007 12:16  xCO2_SW  390.337912  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/17/2007 15:16  xCO2_Air  377.7741279  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/17/2007 15:16  xCO2_SW  390.700917  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/17/2007 18:16  xCO2_Air  377.44506  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/17/2007 18:16  xCO2_SW  392.5516308  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/17/2007 21:16  xCO2_Air  377.9266971  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/17/2007 21:16  xCO2_SW  394.6707007  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/18/2007 0:16  xCO2_Air  378.1373143  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/18/2007 0:16  xCO2_SW  403.2175931  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/18/2007 3:16  xCO2_Air  378.0494378  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/18/2007 3:16  xCO2_SW  384.9568824  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/18/2007 6:16  xCO2_Air  377.7106472  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/18/2007 6:16  xCO2_SW  374.7314278  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/18/2007 9:16  xCO2_Air  377.1468777  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/18/2007 9:16  xCO2_SW  370.9450846  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/18/2007 12:16  xCO2_Air  377.8986494  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/18/2007 12:16  xCO2_SW  371.024876  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/18/2007 15:16  xCO2_Air  377.4395727  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/18/2007 15:16  xCO2_SW  370.2097011  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/18/2007 18:16  xCO2_Air  377.3254596  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
9/18/2007 18:16  xCO2_SW  370.3595226  3  low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
9/18/2007 21:16  xCO2_Air  376.8412567  3  low CO2 air measurements and other clues in diagnostics make measurements questionable from 6/17/07 to end of deployment
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Note: CO2 measurements are questionable from 6/17/07 to the end of the deployment due to various issues such as CO2 air measurements being more than 4 ppm below MBL, bad CO2 air measurements, and other clues in diagnostics.
<table>
<thead>
<tr>
<th>Date</th>
<th>CO2 Source</th>
<th>CO2 Value</th>
<th>Reason for Questionable Measurements</th>
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9/28/2007 9:16  xCO2_SW  357.6509052  3  low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment

9/28/2007 12:16  xCO2_Air  381.2784128  3  low CO2 air measurements and other clues in diagnostics
make measurements questionable from 6/17/07 to end of deployment

9/28/2007 12:16  xCO2_SW  362.3172047  3  low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment

9/28/2007 15:16  xCO2_Air  380.9465067  3  low CO2 air measurements and other clues in diagnostics
make measurements questionable from 6/17/07 to end of deployment

span calibration was off as predicted by change in Licor temperature

9/29/2007 21:16  xCO2_Air  382.3087024  3  low CO2 air measurements and other clues in diagnostics
make measurements questionable from 6/17/07 to end of deployment

9/29/2007 21:16  xCO2_SW  358.8926081  3  low CO2 air measurements and other clues in diagnostics
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9/29/2007 3:16  xCO2_Air  381.9462557  3  low CO2 air measurements and other clues in diagnostics
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9/29/2007 3:16  xCO2_SW  350.7983946  3  low CO2 air measurements and other clues in diagnostics
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9/29/2007 6:16  xCO2_Air  382.668891  3  low CO2 air measurements and other clues in diagnostics
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9/29/2007 6:16  xCO2_SW  355.6211558  3  low CO2 air measurements and other clues in diagnostics
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9/29/2007 12:16  xCO2_Air  383.1406549  3  CO2 data submitted was adjusted by - 5 ppm b/c span calibration was off as predicted by change in Licor temperature

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9/29/2007 15:16  xCO2_SW  347.9788061  3  low CO2 air measurements and other clues in diagnostics
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9/29/2007 18:16  xCO2_Air  383.3536031  3  low CO2 air measurements and other clues in diagnostics
make measurements questionable from 6/17/07 to end of deployment

9/29/2007 18:16  xCO2_SW  346.7493372  3  low CO2 air measurements and other clues in diagnostics
make CO2 sw measurements questionable from 6/17/07 to end of deployment

9/29/2007 21:16  xCO2_Air  383.2313035  3  low CO2 air measurements and other clues in diagnostics
make measurements questionable from 6/17/07 to end of deployment

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make CO2 sw measurements questionable from 6/17/07 to end of deployment

9/30/2007 0:16  xCO2_Air  377.1358266  3  low CO2 air measurements and other clues in diagnostics
make measurements questionable from 6/17/07 to end of deployment

9/30/2007 0:16  xCO2_SW  340.5865995  3  low CO2 air measurements and other clues in diagnostics
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9/30/2007 3:16  xCO2_Air  377.2296988  3  low CO2 air measurements and other clues in diagnostics
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make CO2 sw measurements questionable from 6/17/07 to end of deployment
make measurements questionable from 6/17/07 to end of deployment

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9/30/2007 21:16 xCO2_SW 352.7527871 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment

9/30/2007 6:16 xCO2_Air 371.4840239 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL

10/1/2007 0:16 xCO2_Air 371.4840239 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL

10/1/2007 0:16 xCO2_SW 343.4366112 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment

10/1/2007 3:16 xCO2_Air 372.9513521 4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL

10/1/2007 3:16 xCO2_SW 345.0319624 3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment

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10/2/2007 21:16 xCO2_Air  375.1150027  4 bad CO2 air measurement; MAPCO2 CO2 air is more than 4 ppm below MBL
10/2/2007 21:16 xCO2_SW  340.8721727  3 low CO2 air measurements and other clues in diagnostics make CO2 sw measurements questionable from 6/17/07 to end of deployment
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