

Station Name:

MapCO2 mooring network

Type of Station (moored / ship-based) and Location (geographic region / latitude and longitude coordinates):

Autonomous moored surface CO2 sensor at the following locations:

0°, 125°W (equatorial Pacific) – since 9/03

0°, 140°W (equatorial Pacific) – since 9/03

0°, 170°W (equatorial Pacific) – since 7/05

22°N, 158°W (WHOT mooring) – since 12/04

32°N, 145°E (KEO mooring) – since 9/07

50°N, 145°W (Papa mooring) – since 6/07

20°S, 85°W (Stratus mooring) – since 10/06

33.5°N, 122.5°W (California Current mooring) – since 11/08

21.46°N, 157.80°W (CRIMP/Kaneohe Bay coastal mooring) – since 11/05

21.28°N, 157.85°W (HIOOS/Alawai coastal mooring) – since 6/08

21.29°N, 157.87°W (HIOOS/Kilo Nalu coastal mooring) – since 6/08

47°N, 125°W (NDBC 46041/ Washington coastal mooring) – since 6/06

31°N, 81°W (NDBC 41008/ Georgia coastal mooring) – since 7/06

43°N, 70°W (UNH Gulf of Maine mooring) – since 5/06

We also have three additional sites with data, but the moorings are not currently in the water. By the end of 2009 we expect to have 4-5 additional sites in the water.

Carbon and biogeochemistry measurements at the station

(indicate the frequency of observations, the year measurements began, and if they are surface / full water column, etc.):

The system measures surface water and atmospheric pCO2 every three hours. If the moorings do not already measure surface water temperature and salinity then we collect these measurements ourselves. Plots of data are available in near real time on PMEL web site. Data are made available through CDIAC.

Principle Investigators / Contact Points:

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Affiliation of this station with national, regional, or global research programs and process studies:

The open ocean moorings are part of the OceanSITES network and funded as part of

NOAA's Office of Climate Observations.

Web-site or links to other information:

<http://www.pmel.noaa.gov/co2/co2-home.html>