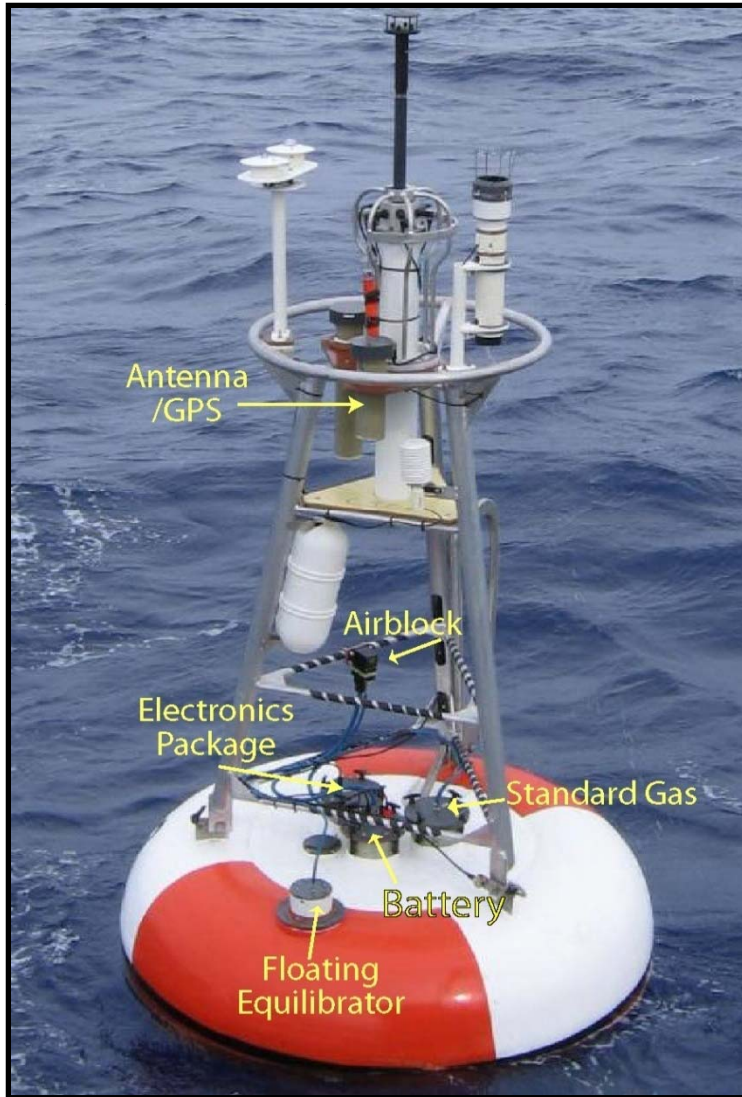




Moored pCO₂ Program



C.L. Sabine (PMEL), F. Chavez (MBARI), S. Maenner (PMEL),
S. Musielewicz (PMEL) and G. Friederich (MBARI)



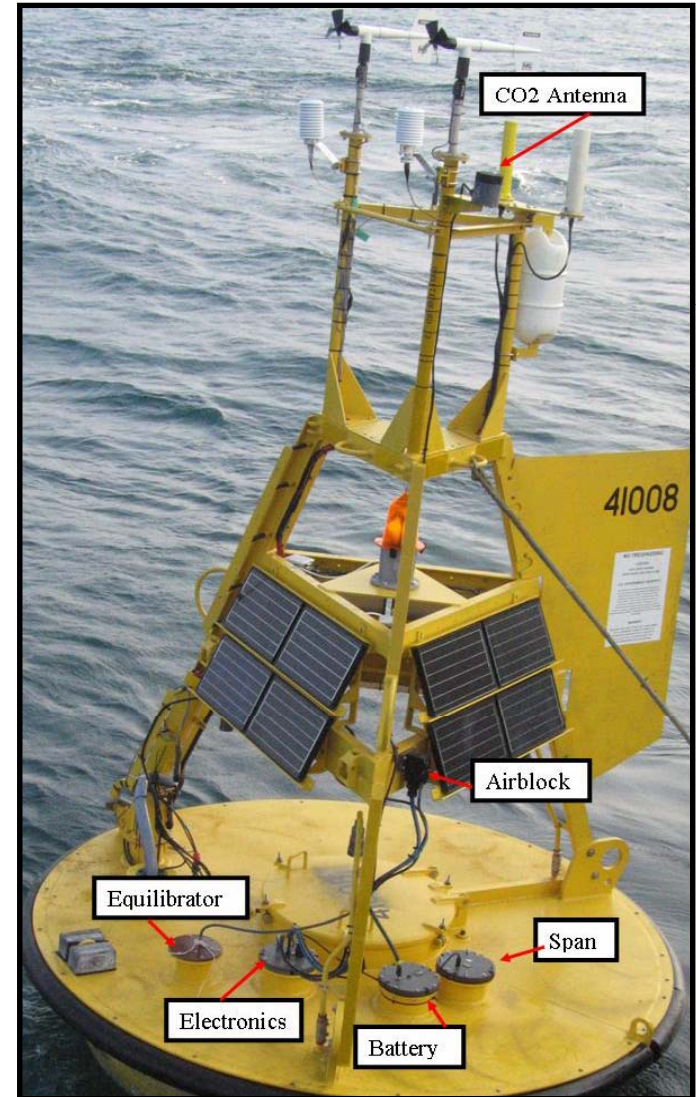
initial design is
from the MBARI
drifters of Gernot
Friedrich and
Francisco Chavez

The Basics:

LiCor 820 NDIR
gas calibration
traceable to WMO
standards

Self contained
modular design to
fit a range of buoys

daily satellite
data transmission





Moored pCO₂ Program

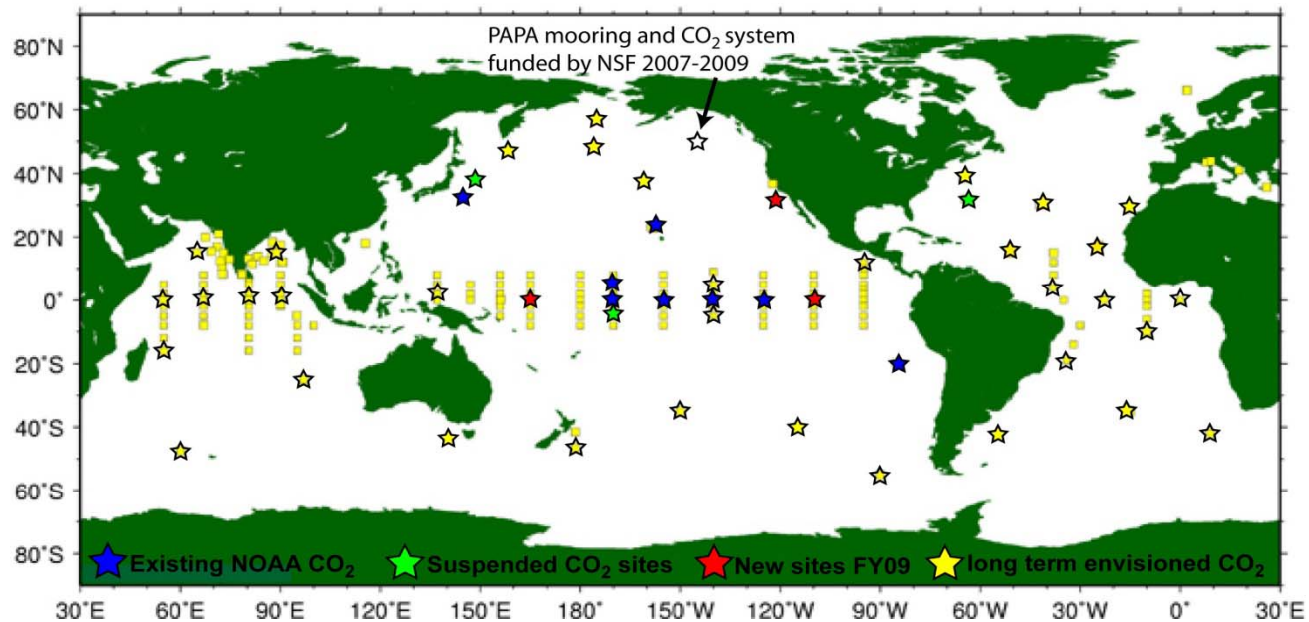


C.L. Sabine (PMEL), F. Chavez (MBARI), S. Maenner (PMEL),
S. Musielewicz (PMEL) and G. Friederich (MBARI)

Goal: To evaluate the temporal variability in air-sea CO₂ fluxes by conducting high resolution time-series measurements of atmospheric boundary layer and surface ocean pCO₂.

Approach: Develop an inexpensive, robust, accurate pCO₂ system that can be deployed on a variety of mooring and drifter configurations for up to a year at a time.

Achievements: We are at nearly 20% of array design with 5 systems on TAO array, 3 in the North Pacific (including Papa) and 1 in the South Pacific.



<http://www.pmel.noaa.gov/co2/moorings>

