

DF05 SCIENCE

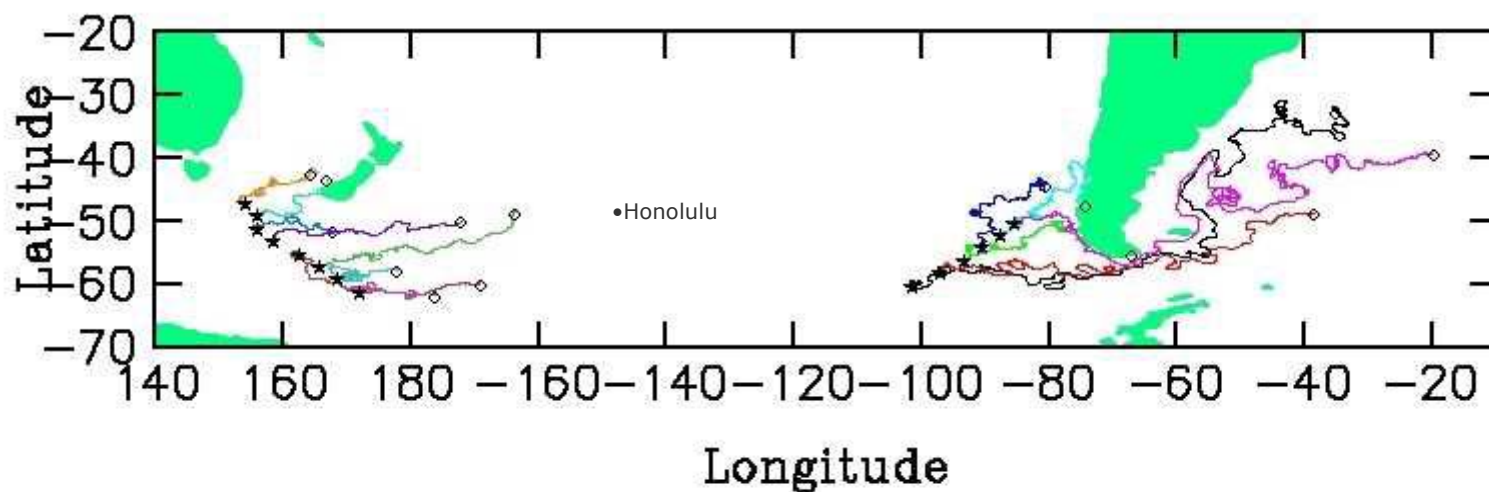
Underway:

- MAERI radiometer (P. Minnett, RSMAS/Miami)
- Cosmic Ray Van (P. Evenson, U.Del.): 11 yrs=Solar ½ cycle=Polarity reversal
- 10 NOAA Global Ocean Observing System Floats Deployed
- DIC Sampling daily (Andy Dickson, SIO)
- Oxygen Isotope Sampling daily (Mike Perdue, Princeton)
- XBT and Hi-Res. Marine Met data following Tropical Cyclone Olaf, Am. Samoa
- TSG/Chla and Knudsen, Bathy2000 bathymetric data collection

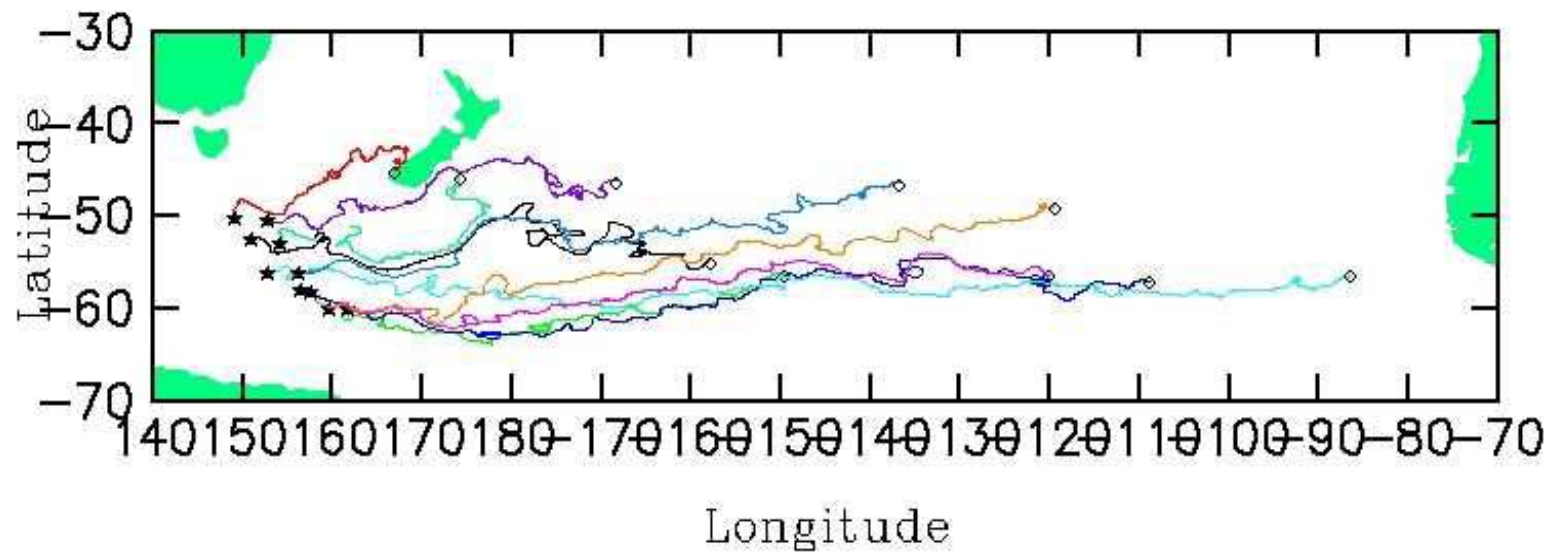
Cancelled:

- No ARGO floats this year, behind in production
- pCO₂ sampling (T. Yager, UGA) – cancelled due to death in grad student family
- LAUBFLEX deep drifter floats off Fiji (A.Thurnherr, K.Speer)–Transit canx'd

Buoys Deployed by USCGC POLAR STAR 2002-2003

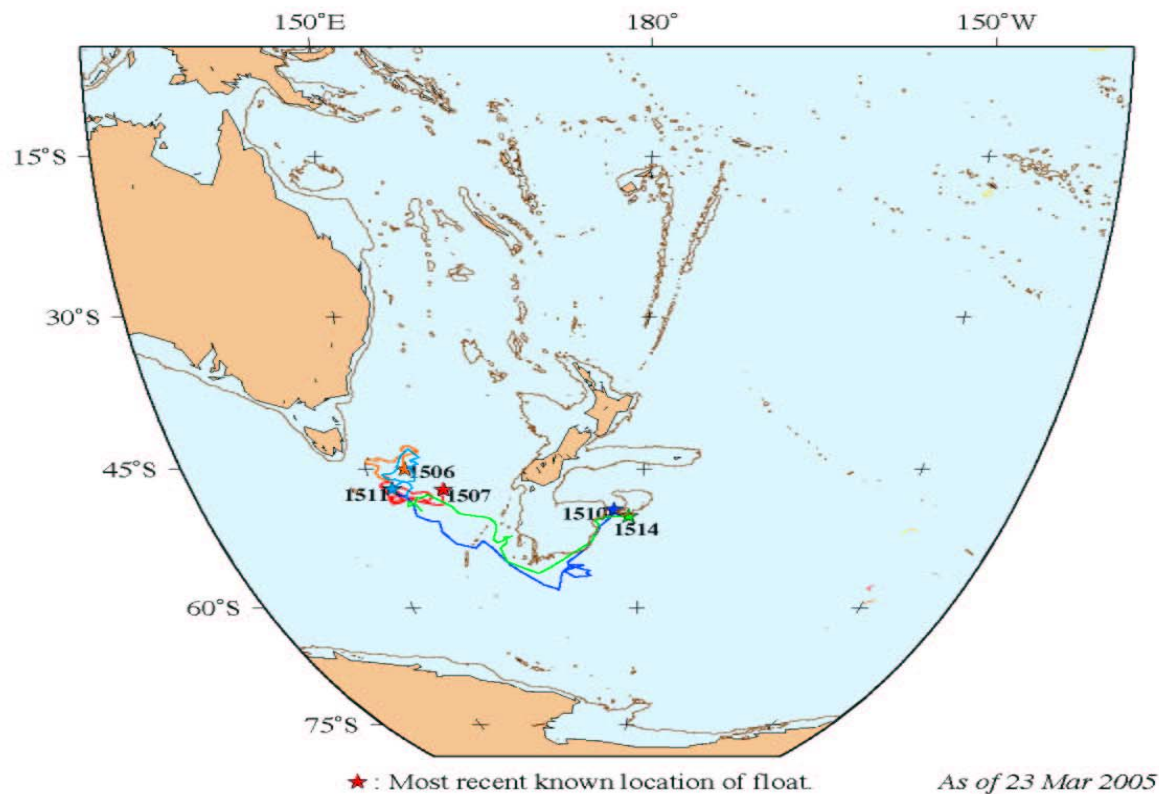


Drifters Deployed by USCGC POLAR SEA, 2003



Trajectories of PMEL Argo floats deployed by the USCG Polar Sea February 2004:

These floats have each returned 38 profiles of temperature and salinity to 2000m
(a total of 190 profiles)



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In Ross Sea / McMurdo area:

IVARS (W. Smith, V.Asper)

- Conducted CTDs, deployed moorings, left retrieve to PALMER**

R. Pittman, W. Perryman (SIO)

- Orca genetics, Photogrammetry**
- Genetics sampling worked from small boats**
- Camera didn't work, no backup – photogrammetry suboptimal**

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Ross Sea Science – IVARS, etc. ? – NSF has requested PSTAR

MAERI redux; Cosmic Ray van redux

ARM Marine Met Van – radar, lidar – DOE/Battelle (Seattle-Sydney-back)

8 ARGO floats; **10 GOOS Floats** – NOAA PMEL & AOML- confirmed

pCO₂ redux – T. Yager, UGA or R. Wanninkhof (NOAA) or Seakeepers

Submarine seismometers – CTBTO & IRIS Global Seismic Network

for seismic, iceshelf/berg cracking and marine mammals

R. Butler, IRIS & R. McCauley, Curtin U., Perth; J. Hildebrand, SIO

Atmospheric halides – J. Butler, S. Yvon-Lewis (NOAA), A. Goldsmith, UCB

PSTAR ship proposal– S. Riser (UW), K. Speer (FSU), D. Martinson (LDEO)

Mass, Heat, and Freshwater Transports in the Seasonal Ice Zone

of the Pacific Antarctic Sector of the Southern Ocean – CTD work