

**Station Name:**

Apex/ISUS - Profiling Floats with Biogeochemical Sensors (nitrate, oxygen, pH, biooptics)

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

2 profiling floats per year will be deployed at HOT, BATS, Ocean Station Papa and in the Southern Ocean for the next 3 years.

**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.):**

Floats profile every 5 days from 1000 m to the surface. They make measurements at 60 depths for biogeochemical properties and 500 depths for physics. Each float will make 260 profiles over a 4 year period. Current measurement suite includes dissolved nitrate, oxygen, temperature, salinity and pressure. Chlorophyll fluorescence, optical backscatter and pH will be added soon. Data is available on the Internet within 4 hours of transmission from the float at the web site listed below.

**Principle Investigators / Contact Points:**

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

HOT, BATS

**Web-site or links to other information:**

<http://www.mbari.org/chemsensor/floatviz.htm>