

Management of biogeochemical float data in the US



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Overview

Within the US, efforts to deploy floats equipped with biogeochemical sensors have mainly come from the University of Washington float group and its partners.

- 2005 – began deployment of floats equipped with dissolved oxygen sensors.**
- 2007 – began under-ice sampling of oxygen by Iridium floats with ice-avoidance algorithm.**
- 2008 – began experimenting with nitrate and other biogeochemical sensors.**
- 2014 – began SOCCOM floats deployment.**

B-Data management

Pre-2014 UW deployments

- AOML process CTD and DOXY data
- All UW BGC data available publicly at UW

Post-2014 UW deployments

- AOML process CTD data (core-files)
- UW process BGC data (b-files)
- All SOCCOM BGC data available publicly at MBARI
- All UW BGC data available publicly at UW

Progress toward the Argo V3.1 format B-files

- **A UW-SOCCOM bgc float data manager is now onboard. Production of B-files with SOCCOM bgc data is expected to begin sometime in 2016.**
- **AOML will begin production of B-files for historical oxygen floats sometime in 2016 also.**
- **Annie converts all historical V2.2 D-files with DOXY to V3.1 D- and B- files.**

A couple of comments ...

- **The GDAC enhanced format checker has helped greatly in ensuring some coherence between all B-files at the GDACs.**
- **The Argo User's Manual needs to be updated to include V3.1 format discussions that have taken place via email.**

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SOCCOM floats

Deep-Sea DuraFET ph sensors

ISUS & SUNA nitrate sensors

**Aanderaa & SBE dissolved
oxygen sensors**

**Wetlabs fluorescence and
optical backscatter sensors**

(CDOM on some)

***Focus in the Southern Ocean
from the ice edge to about 40°S***