

UK Bio-Argo data status

JUSTIN BUCK (JUCK@BODC.AC.UK)



**National
Oceanography Centre**
NATURAL ENVIRONMENT RESEARCH COUNCIL



noc.ac.uk

Deployments and data delivery

Deployed

Float type	#	Raw data archival	Data decoder	Data ingestion	V3.1 delivery	Notes
APEX – APF9i (FLBB, AADI O2 optode)	4	Yes	Yes	Yes	No	Nordic Seas
PROVOR – CTS3 (Wetlabs triple, AADI O2 optode, Satlantic OCR504)	7	Yes	Partial	No	No	1,000 dBar cycling. E-AIMS floats
NAVIS – BGCi (Wetlabs triple, AADI O2 optode, Satlantic OCR504)	3	Yes	Yes	No	No	

Planned

NAVIS BGCi on order including 2 Durafet pH sensors

PROVOR CTS3 (Wetlabs triple)

Two deep ARVOR with O2 optode

Two deep APEX with O2 optode

SenseOCEAN (after ADMT17)

Status of data processing – parameter level

Parameter	RTQC	DMQC	Notes
DOXY	Yes	No	
CHLA	No*	No	
BBP	No*	No	
PAR	No*	No	

*We have simple parameter limit tests but not full RTQC

However there is hope and funding!

AtlantOS is funding 55kEuro for Bio-Argo QC, we need to know priorities so this can be targetted at the highest priority parameters.

Other relevant activity - SenseOCEAN

SenseOCEAN project is developing sensors for autonomous platforms including Argo floats. Data management support part of project.

Argo floats	O2 Optode	PYR / TUG	Works well
	pH Optode	PYR / TUG	Still slow at low temperatures; alternative system is very promising but is still in development
	Nitrate LOC	UoS/NOC	Works well, frequency to be enhanced
	pH LOC	UoS/NOC	Works well, frequency not that fast.
	Multi λ fluorometer (PAH/CDOM)	CTG	Concept development complete, detailed design in progress
	Multi λ fluorometer (algae)	CTG	Concept development complete, detailed design in progress
	Multi λ PAR	CTG	Concept development in progress

Other relevant activity - ENVRIplus

ENVRIplus – 8 months resource to contribute to two data harmonisation tasks

- 2.2. Heterogeneity in time series: innovative user services
- 2.3 Observation continuum: enhancing use of RIs for satellite validation from and to assimilation and services

First ENVRIplus week in mid-November and final task allocations to be defined