



BGC-Argo Italy

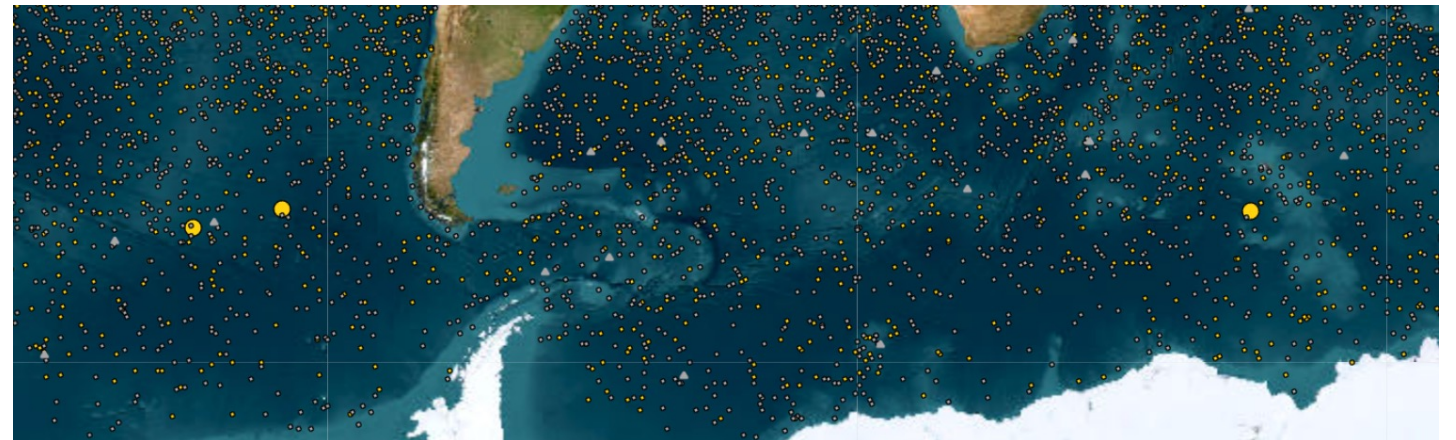
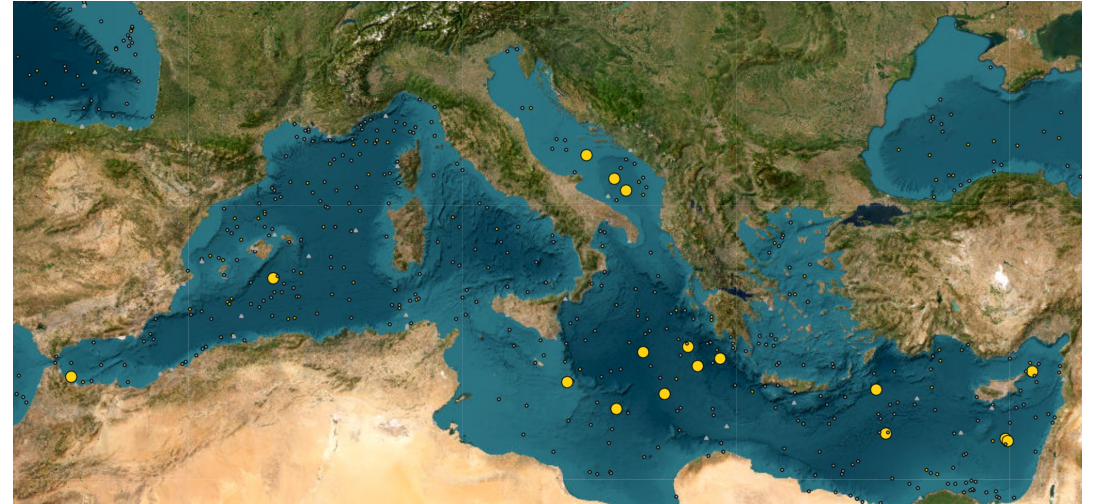
Giorgio Dall'Olmo and Emanuele Organelli



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Status of implementation

- **20 units** operational
 - 20 DOXY
 - 2 DOXY + CHLA + BBP + IRR
 - 2 DOXY + CHLA + BBP + IRR + NO3
- Mainly **Med Sea**
- But also 3 DOXY floats in the **Southern Ocean**



Data management and DAC activities

- Currently **not officially involved in QC of BGC variables**
- QC of Italian floats done by Coriolis (many thanks Catherine!)
- **We do have expertise** (DOXY, BBP, IRRADIANCE) and are discussing plans to support QC of BGC variables in the Med Sea
- **BBP-RTQC** activities moved to Italy (from UK)
 - Need to revise manuscript
 - Complete cookbook
- Actively seeking funds for developing **DMQC for BBP** (prop in prep)
- **OGS modellers** routinely exploit BGC-Argo data for the [operational Med-Sea BGC model](#) (devel., assimil. and valid.): opportunity to test on a small basin what BGC Argo could achieve globally
- OGS modellers have **improved QC for BGC-Argo variables**, we may learn something from them: established fruitful on-going interactions

Future prospects

- **ITINERIS** (2.5-year Italian project)
 - **OGS**
 - 16 BGC units (2 with UVP6)
 - Experimenting/testing new sensors (existing and new BGC-Argo variables)
 - Deployments mainly Med Sea, but also global ocean
 - Considering extension of BBP to Deep-Argo (brief presentation on Tue)
 - **CNR**
 - 9 BGC units (+UVP6, +Hyperspectral irradiance)
 - Deployments in Med Sea
 - **Aspiration**: demonstrate value and secure sustained funding for BGC mission
- **25 core floats** for Med Sea all planned **with DOXY**
 - Support BGC-modelling activities
- **2 BGC floats & 2 Core + DOXY** planned for (N)W Med Sea in 2023
- **1 Core + DOXY** East Med Sea
- **1-2 Deep + DOXY**

Issues

New sensors (for existing BGC variables) are entering the market:

How do we ensure measurements are intercomparable?

So far one manufacturer with (in theory) stable calibration, but is this calibration reproduceable by other manufacturers?

Important issue for diversifying the market of sensors that do not have strict reference materials

Publications

- See national report

Outreach

- September 2022, Euro-Argo ERIC, represented by CNR-ISMAR and the ERIC Office, joined the Eurofleets+ Floating University “Multiple platforms to measure the ocean”.

