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Oceanids Command and Control (C2) data, the UK glider DAC status, and connecting glider data infrastructure in the SeaDataCloud project

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Abstract (Oral Presentation)

The National Oceanography Centre (NOC) – British Oceanographic Data Centre (BODC) are a Data Assembly Centre (DAC) for glider deployments funded by UK Research and Innovation. BODC have been building DAC capability as part of the UK's Oceanids Command and Control (C2) project. BODC are also a member of the EuroGOOS OceanGliders Data Management Task Team and European SeaDataCloud project, collectively aiming to facilitate the exchange of glider observations around Europe and beyond.

Oceanids C2 development is providing the infrastructure in BODC required to function as an operational DAC within the OceanGliders program. In order to meet the requirements of the Oceanids stakeholders (which include the OceanGliders program) the goal is for near real-time submission of data to the Global Telecommunications System (GTS) and production of EGO files with submission to the OceanGliders global DAC (GDAC). The system is built using open source or non-proprietary systems. Its current capability includes the submission to the GTS and production of EGO compliant NetCDF for real-time data. Pending areas of development include incorporation of quality control toolboxes, automated submission of data to the GDAC, DAC level data delivery, and handling of delayed mode data streams.

BODC are progressing towards being a fully operational OceanGlider DAC. For glider deployments without data access restrictions, deployment metadata are registered with the OceanGliders program with real-time versions of data submitted to the GDAC once deployments are complete. BODC are progressively transitioning UK glider data providers to the Oceanids C2 system and are also targeting EGO conversion of legacy deployments to ensure appropriate representation of UK glider data within the OceanGliders framework.

The OceanGliders Data Management Task Team will be linking glider observations to the European Commission's EMODnet data access portals, via the SeaDataNet infrastructure. SeaDataNet is a network of 43 marine data centres bordering Europe seas. BODC are leading a SeaDataNet project deliverable, which aims to describe how ocean glider data can be integrated into EMODnet via SeaDataNet. This work includes a description of the used of controlled vocabularies (OG1, ICES codes, ...), differentiation between data version and the pathways required for different ocean glider data states, and how to map EGO metadata to the SeaDataNet Common Data Index (CDI) enabling inclusion in SeaDataNet.