

SeaDataCloud Workshop



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SEADATACLOUD WORKSHOP

Let's meet at: 09:00 - 12:30, Room: Sintra | 23 Jan 2018

Session Chair: Dick M.A. Schaap – MARIS

You can't miss it if you want to know more about SeaDataNet / SeaDataCloud.

Workshop information:

SeaDataNet is a major infrastructure in Europe for managing, indexing and providing access to ocean and marine data sets and data products, acquired from research cruises and other observational activities in European coastal marine waters, regional seas and the global ocean. It also develops and governs common marine standards for metadata and data formats, common vocabularies and quality flags as well as standard software tools. The core partners in SeaDataNet are the National Oceanographic Data Centres (NODCs) and major marine research institutes in Europe, together with the Intergovernmental Oceanographic Commission (IOC) of UNESCO, and the International Council for the Exploration of the Sea (ICES). The SeaDataNet data centres are highly skilled and have been actively engaged in marine data management for many decades and have the essential capabilities and facilities for data quality control, long term stewardship, retrieval and distribution.

SeaDataNet works together with originators of marine data, comprising scientists collecting data with the European research vessel fleet and other observing platforms, and various governmental agencies, collecting data for environmental management and economic activities. SeaDataNet also has a close cooperation with the European operational oceanography community involving i) **EuroGOOS**, the association of national governmental agencies and research organisations committed to European-scale operational oceanography within the context of the intergovernmental Global Ocean Observing System, ii) **Copernicus Marine Environment Monitoring Service** (CMEMS), deploying pan-European capacity for Ocean Monitoring and Forecasting, and iii) **Euro-ARGO**, developing a long-term global ocean monitoring system deploying Argo floats.

Furthermore, the SeaDataNet network is a major contributor to the development of the **European Marine Observation and Data network** (EMODnet), from its start in 2008. EMODnet develops generic marine data products and services for all European sea regions. Through its synergy with the EMODnet developments SeaDataNet has largely expanded its network and at present more than 110 marine data centres from 34 countries around European seas are connected to the SeaDataNet infrastructure, giving overview and access to their data resources for physical oceanography, marine chemistry, marine geology and geophysics, bathymetry, and marine biology.

SeaDataNet is an operational infrastructure, well established on a pan-European scale with national nodes and currently serving many users and applications. The current **EU SeaDataCloud** project has a focus on upgrading and expanding the architecture and services of SeaDataNet, inter alia by adopting cloud and High Performance Computing technology. For that purpose SeaDataNet has entered into a strategic and technical cooperation with the **EUDAT** consortium.

At the **Workshop** a number of SeaDataCloud activities and their progress will be highlighted.

Draft Agenda:

09:00 – 10:30 *"Current status of the SeaDataNet infrastructure and activities for upgrading standards and services."*

- Introduction to SeaDataNet infrastructure - Dick M.A. Schaap - MARIS (SeaDataCloud technical coordinator) (15 min) ([Presentation](#))
- Upgrading of standards and services as part of the SeaDataCloud project:
 1. CDI Data Discovery and Access service - Dick M.A. Schaap - MARIS (SeaDataCloud technical coordinator) (12 min) ([Presentation](#))
 2. Linked Data for metadata directory services - Rob Thomas / Adam Leadbetter - Marine Institute (12 min) ([Presentation](#))
 3. Sensor Web Enablement ingestion service - Christian Autermann - 52North (12 min) ([Presentation](#))
 4. Striving for INSPIRE compliance - Lena Hallin-Pihlatie - SYKE (12 min) ([Presentation](#))
 5. Common Vocabulary services - Alexandra Kokkinaki - BODC (12 min) ([Presentation](#))
- Discussion and brainstorming (15 min)

11:00 – 12:30 *'How to derive data products from the large data resources and new opportunities provided by the cloud.'*

- Generating validated and harmonised Temperature & Salinity data collections and climatologies - Simona Simoncelli - INGV (15 min) ([Presentation](#))
- Ocean Data View (ODV) software and the cloud - Sebastian Mieruch - AWI (15 min) ([Presentation](#))
- Data-Interpolating Variational Analysis (DIVA) software and the cloud - Charles Troupin - ULiege (15 min) ([Presentation](#))
- Adopting and adapting SeaDataNet services for EMODnet Chemistry - Alessandra Giorgetti - OGS (15 min) ([Presentation](#))
- Developing the SeaDataCloud Virtual Research Environment (VRE) - Merret Buurman - DKRZ (15 min) ([Presentation](#))
- Final discussion and brainstorming (15 min)

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