

GRA Background Report EuroGOOS AISBL

Inga Lips

GOOS Regional Forum-11, 8-9 April 2024 Barcelona, Spain





EuroGOOS evolvement





NOOS EuroGOOS North West European Shelf Operational Oceanographic System



IBIROOS EuroGOOS Ireland Biscay Iberia Regional Operational Oceanographic System

BOOS EuroGOOS Baltic Regional Operational Oceanographic System

MonGOOS



Success 1 – EOOS Strategy 2023-2027

EOOS

CATCHING THE MOMENTUM IN OCEAN OBSERVING TECHNOLOGY:

OPTIMISING VALUE AND DATA PROVISION

uroGOOS

Technology **Forum 2024**

13 March 2024 · 09:45 - 17:45

South Gallery Room SG5



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Session 1 (10:00-11:00) Accessible technology: Needs of the ocean observing community Session 2 (11:30-13:00) Opportunities and challenges for accessible ocean observing technologies Session 3 (14:00-15:30) Data quality aspects of accesssible ocean observing technologies Session 4 (15:30-17:30) Sustainability aspects of accessible ocean observing technologies Closing session (17:30-17:45)



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that is sustained and meets the specific needs of users

fostering collaboration and innovation



Success 2 — EuroGOOS 10th Int. Conference



- Operational oceanography in Europe must develop with a holistic Earth system approach.
- Without observations, ocean services and products are not possible.
- EuroGOOS activities are an important asset contributing to the UN Ocean Decade Challenges for collective impact.
- Genuine co-design of operational oceanography with users and stakeholders, including policymakers, is essential to ensure their needs are met.
- There is no operational oceanography without people - the skilled individuals without whom there would be no ocean observations, infrastructure and data management, or forecasts and services.



Success 3 -Ocean Decade Activities

3.1 Decade Implementing Partner



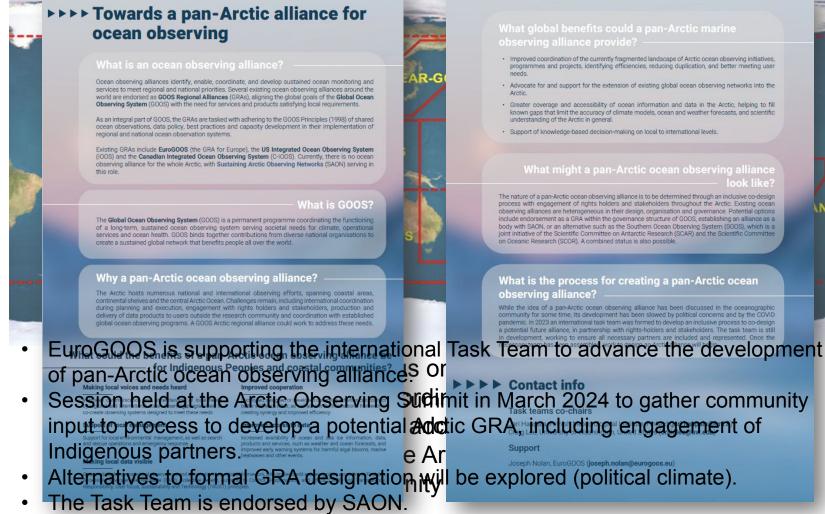
SCIENTISTS FOR OCEAN LITERACY (OCEANOGRAPHERS AND METEOROLOGISTS FOR OCEAN LITERACY)

System: Eurogous Enhancing cooperation and promoting the bene	fits of	GSTS CoastPredict with The Global Ocean Observing System
Connecting the world arou	und ocean forecasting	
Cean Cean	West Poolfs & North East Adonts of Seas of South and East Asia (Constraint) and Constraints of South and Constraints of S	SciNMeet launch event
	Arctic South and Central Artican Seas	12-13 July 2022, Rome
	Hediterranean North Antorctica	3.4 Programs: CoastPredict, SciNMeet

3.2 Supporting the Ocean Predictions DCC



Success 4 — Towards an pan-Arctic ocean observing alliance (Arctic GRA)



- · Improved coordination of the currently fragmented landscape of Arctic ocean observing initiatives, programmes and projects, identifying efficiencies, reducing duplication, and better meeting user
- · Advocate for and support for the extension of existing global ocean observing networks into the
- · Greater coverage and accessibility of ocean information and data in the Arctic, helping to fill known gaps that limit the accuracy of climate models, ocean and weather forecasts, and scientific
- Support of knowledge-based decision-making on local to international levels.

The nature of a pan-Arctic ocean observing alliance is to be determined through an inclusive co-design process with engagement of rights holders and stakeholders throughout the Arctic. Existing ocean observing alliances are heterogeneous in their design, organisation and governance. Potential options include endorsement as a GRA within the governance structure of GOOS, establishing an alliance as a body with SAON, or an alternative such as the Southern Ocean Observing System (SOOS), which is a joint initiative of the Scientific Committee on Antarctic Research (SCAR) and the Scientific Committee on Oceanic Research (SCOR). A combined status is also possible

What is the process for creating a pan-Arctic ocean

While the idea of a pan-Arctic ocean observing alliance has been discussed in the oceanographic community for some time, its development has been slowed by political concerns and by the COVID pandemic. In 2023 an international task team was formed to develop an inclusive process to co-design a potential future alliance, in partnership with rights-holders and stakeholders. The task team is still



Success 5 — European networks

Active European platform networks contributing to the Global networks – HFRadars, Gliders, Tide Gauges





Success 6 — EuroGOOS Data Policy

unesco

IOC Manuals and Guides 92

IOC Strategic Plan for Ocean Data and Information Management (2023–2029)

UNESCO



EG23.10

Brussels, 5 June 2023

EuroGOOS Data Policy

Rationale and context



Operational oceanography brings various economic and societal benefits. It underpins significant decision and policy making in the marine domain, from weather forecasts to marinitime activities, marine safety and climate modelling, and delivers vital services and information for a sustainable blue economy (EuroGOOS, 2016). Following Decision 7 of the EuroGOOS General Assembly 2022, EuroGOOS Working Group on Data Management, Exchange and Quality (DataMEQ) put forward a European data policy for Findable, Accessible, Interoperable, and Reusable (FAIR) Ocean data and metadata sharing for operational oceanography. This policy was approved in principle by the EuroGOOS General Assembly on 31 May 2023. Signatures of the Member Organization representatives are requested as commitments of the EuroGOOS Members to the policy implementation.

In 2019, the Intergovernmental Oceanographic Commission (IOC) of UNESCO, recognising the vital importance of timely, free, and unrestricted international exchange of oceanographic data for the efficient acquisition, integration and use of ocean observations gathered by the countries of the world, endorsed the IOC Oceanographic Data Exchange Policy¹. Revision of the IOC data policy is underway and submitted for approval to the IOC Assembly at its 32^{sd} session (21-30) June 2023).

In 2021, the World Meteorological Organization (VMO) adopted a new Unified Data Policy² relating to the international exchange of meteorological, hydrological, and climate data between the 193 Member states and territories of VMO. The WMO policy distinguishes two types of data which are required for meteorological service provision and must be exchanged: (i) 'core' data, which must be freely available, and (ii) 'recommended' data, for which agreements can be needd (see table 1 <u>http:</u>). All data collected by Global Ocean Observing System (GOOS) within the framework of Essential Ocean Variables (EOVs) and Essential Climate Variables (ECVs) are classed as core data that must be exchanged on a free and unrestricted basis.

Similarly in 2021, the International Council for Exploration of the Sea (ICES) revised its data policy and all data provided to ICES are considered to be public data under the Creative Commons Attribution Licence (CC-BV), unless otherwise explicitly specified as restricted data.

In 2022, the Southern Ocean Observing System (SOOS) revised its data policy with 13 statements for 'ethically open' and FAIR data³.

¹ JOC Oceanographic Data Exchange Policy (2019)
² World Meteorological Organization (WMO) Unified Policy for the International Exchange of Earth System and
[2021]
(2021)

³ SOOS Data Policy

EuroGOOS Data Policy, May 2023





Priorities

- Short-term (in the next year or two)
- Communication with stakeholders and public there are no sustained oceanographic services for society without sustained ocean observations
- Identify the observation gaps for developing Digital Twins
- Contribute to the OceanPredictions DCC global model inventory
- Long-term (5+ years)
- Strengthen and further EuroGOOS' role in ocean health and climate services
- Promote sustainability across the value chain of operational oceanography
- Implementation of **EOOS** supported by Member States