EuroGOOS
European Global Ocean Observing System

EuroGOOS Annual General Assembly Meeting
21-23 May 2024
Lisbon, Portugal

Open session

Agenda Item 2: annual report

Document O2.2: EU project overview sheets

Project Title	**AllOceanObs (**CINEA tender**)**
Duration	15 months (26th August 2022 to 25th November 2023)
Main Objective	To assess the current state of information sharing between EU Member States on their planned ocean observing activities, and to develop a tool to improve sharing of plans to facilitate greater coordination of European ocean observing activities.
Project Budget	€ 292,496
EuroGOOS Budget	€ 73,490
Funding Mechanism	CINEA tender, Contract number: CINEA/EMFAF/2021/3.4.9/SI2.876379
Coordinator	Inga Lips, EuroGOOS
Consortium	7 partners from 6 countries (EuroGOOS, Seascape Belgium, ICES, SHOM, SMHI, ETT and GEOMAR)
Project Website	At the request of the EC, there is limited public communication about this project, and thus no project website.
EuroGOOS Team Responsible	Inga Lips (Coordinator), Joseph Nolan, Vicente Fernandez, Dina Eparkhina, Alicia Blanco
EuroGOOS Role	• Overall coordination, project management and communication with the European Commission • Development of a template for EU Member States to report ocean observing plans, including instruction manual • Stakeholder input to the development of the template • Plans for scaling up and uptake of the template among Member States
Strategic relevance to EuroGOOS	Project is closely linked to the upcoming EC initiative 'Ocean observing – sharing responsibility', with developments being closely followed by DG MARE and other DGs. Outputs from the project could potentially be tools for the future implementation of the EC initiative.
EuroGOOS Contribution	• Coordination and project management • Lead of WP3 Reporting Template for observation campaigns • Contributor to WP5 Prototype online map-viewer and design of a web page • Contributor to WP6 Stakeholder consultation and Workshop • Lead of WP7 Scale-up of the adoption of the reporting template • Lead of WP8 Dissemination • Lead of WP9 Project Management • Lead of WP10 Transition and Handover details at the end of the contract
Recent Project Developments	The project was completed in 2023, with all deliverables submitted on time. The main outcomes of the project are a prototype template for reporting of ocean observing campaign plans, and an online portal/map viewer for visualisation and exploration of reported plans, and to facilitate potential coordination and collaboration. The template and online tool are designed to be utilised in the context of the European Commission's initiative 'Ocean observation – sharing responsibility'. Further developments to the online tool and template are anticipated before a formal launch (outside the scope of this contract). The final report of the project, summarising all activities and deliverables, is available here.

Project Title	EuroSea
Duration	48 months (Nov 2019 – December 2023)
Main Objective	**EuroSea** brings together key European actors of ocean observation and forecasting with key end users of ocean observations, responding to the G7 Future of the Seas and Oceans Flagship Initiative. EuroSea aims to strengthen the European and Global Ocean Observing System and support its partners. EuroSea increases the technology readiness levels (TRL) of critical components of ocean observations systems and tools, including the TRL of the integrated ocean observing system. It improves European and international coordination and design of the observing system adapted to European needs, in situ observing networks, data delivery, integration of remote and in-situ data, and forecasting capability. Three EuroSea demonstration work packages focus on operational services, ocean health, and climate, promoting dialogue between actors in the ocean observing system and guiding the development of services, including market replication and innovation in the blue economy.
Project Budget	€12.3 million
EuroGOOS Budget	€618,000 (€640,341.39 claimed)
Funding Mechanism	EC H2020- BG-2018-2020/H2020-BG-2019-1
Coordinator	GEOMAR, DE; Toste Tanhua
Consortium	53 partners from 16 countries in the Baltic, North Sea, the European Atlantic, and the Mediterranean
Project Website	https://eurosea.eu/
EuroGOOS Team Responsible	Inga Lips (WP1), Deniz Karaca (WP1), Dina Eparkhina (WP8), and Vicente Fernández (WP3 – supporting the EuroGOOS Task Teams and leaders of WP3).
EuroGOOS Role	Involved in linking EOOS and GOOS coordination and governance, communicating the project outputs, ensuring their exploitation and legacy, strengthening the coordination and integration of the different observing networks within EuroGOOS (EuroGOOS Task Teams), and promoting best practices and knowledge transfer.
Strategic relevance to EuroGOOS	Supports the work of the EuroGOOS in promoting EOOS and demonstrating the value of EuroGOOS member services. Supports the following EuroGOOS 2030 objectives: 1 - Stimulate Communities of Practice, 2 - Advocate for coordinated and integrated European ocean observing and operational oceanography, 3 - Strengthen and expand partnerships and 4 - Promote sustainability across the value chain of operational oceanography and ocean observing.
EuroGOOS Contribution	**WP1**: Governance and coordination: WP co-lead with IOC (32 PM). **WP3**: Network Integration and Improvement. Involved as EuroGOOS observing Task Teams are the observing networks in Europe (2 PM; assigned from WP1). **WP8**: Communications, engagement, exploitation, and legacy: WP lead with GEOMAR as co-lead (16.5 PM). EuroGOOS also sits on the Gender and Diversity Board (Dina Eparkhina). Inga Lips and Dina Eparkhina sit on the project's Steering Committee (WP co-/leaders).

Project developments and upcoming actions

WP1: Co-lead of WP1

Work towards EOOS implementation continued:

- After the EOOS Strategy 2023-2027 and Roadmap of Implementation launched in 2023, the EOOS has been promoted in many events through booths, presentations and panels.
- To help the sustainability of European ocean observations, a list of recommendations was compiled for networks, frameworks, Member States, and the European Commission (deliverable D1.8). A white paper is currently under review.
- EuroGOOS also contributed to the Gap analysis of European ocean observing and forecasting system (deliverable D1.9) where a scoring approach that can evaluate the European ocean observing and forecasting system readiness level (RL) in monitoring ocean phenomena, on a regular basis and in a systematic way was proposed. A scientific paper has been submitted to the Frontiers in Marine Science.
- EOOS Operations Committee met onsite for the first time at JPI Oceans premises on 28 November in conjunction with the EOOS Resource Forum. The collaborative meeting brought together members from the EOOS Advisory Committee, Operations Committee and Resource Forum, fostering a platform for collaboration and knowledge sharing. The meeting facilitated an exchange of information on the latest progress, national efforts, and innovative technologies and AMRIT project, setting the stage for continued advancement in the field. The collaborative spirit of the meeting is catalysed further joint activities and encourage collaboration between EOOS governance bodies.

WP3:

Several EuroGOOS Task Teams have contributed and benefited from their participation in WP3, e.g. Glider TT, Fixed Platforms TT, Tide Gauges TT, HFR TT. The final assessment of all observing networks was made (deliverable D3.18) to inform on the status (weakness and strengths) of the EuroGOOS observing networks in reference to the international (GOOS) context.

- Gliders: EuroGOOS Glider TT contributed to the organisation of the 9th EGO meeting (International Underwater Glider Conference) that will be held in Sweden Gothenburg 10-14 June 2024.
- Eulerian Observations/Fixed Platforms: a large part of this community joined the EuroGOOS Fixed Platforms task team. A registry with the 205 fixed platforms operating in the 13 Member States was accomplished, which in the framework of AMRIT project will be incorporated in the OceanOPS.
- European Sea level network organised its second hybrid workshop in May 2023 (reported last year). The Tide Gauge Metadata Catalogue (EUTGN, deliverable D3.15) was added to the EuroGOOS Tide Gauge Task Team webpage. The Permanent Service for Mean Sea Level (PSMSL, NOC) data portal for sea level from GNSS-IR was released to a live environment while a web version of SONEL portal intercomparison tool was developed and released in early 2023 for the intercomparison of the data and metadata

portals, helping the identification of gaps and errors.

- HF Radar: different tools developed in the framework of EuroSea project (deliverable D3.14) all of which are a direct respond to identified requirements by the community. For the dissemination of all those new capabilities a website has been created offering a wide visibility to the network, access to the European HF radar node, to HF radar network and systems technical specifications, HF radar tools (HOORT and map of systems), and links to providers information, publications, and data. The work on the High-frequency radar-derived coastal upwelling index has been published by Lorente et al in the 7th edition of the Copernicus Ocean State Report.
- EuroGOOS DATAMEQ WG have contributed to the "data handbook" (deliverable D3.13) with very useful information on each of the EuroSea networks as well as a report on "Data Integration" (deliverable D3.17) which looks into the links with the European *in situ* data integrators exploring similarities and gaps.

WP8: Lead of WP8

- WP8 coordination including the project's engagement, dissemination, exploitation, and impact assessment. Also leader of tasks 0 – Management, 1 – Engagement, and 4 – Legacy. Overview of several deliverables of WP8 on lessons learnt and exploitation and business plans.
- Delivery of the EuroSea Legacy Report (Nov. 2023) https://eurosea.eu/outputs-reports/, D8.12.
- Delivery of the EuroSea impacts registry (circa 100 impacts) and web pages https://eurosea.eu/impacts/.
- Contribution to the EuroSea Declaration https://eurosea.eu/new/eurosea-declaration-for-ocean-observing-and-forecasting/.
- Moderation and presentation at EuroSea day at the Ocean Race grand finale, June 2023, Genoa https://rb.gy/2ju42d.
- Visibility of EuroSea at relevant stakeholder events and the EuroSea high-level symposium on ocean observing and forecasting (UNESCO-IOC, Paris, September 2023), including coordination of posters on the key exploitable results https://eurosea.eu/outputs-reports/.
- Project promotion at European Maritime Day – May 2023, European Ocean Days – March 2024, and other events.
- Coordination of project website and social media.
- Delivery of reports at the final project meeting (UNESCO-IOC, Paris, Sept. 2023), last reporting period (until February 2024) and EC review (April 2024).

Project Title	JERICO-DS (Design study)
Duration	36 months (1 October 2020 - 31 January 2024)
Main Objective	JERICO-RI: Joint European Research Infrastructure of Coastal Observatories – a system of systems strengthening the European network of coastal observatories providing a powerful and structured European Research Infrastructure (RI) dedicated to observe and monitor the complex marine coastal seas**.** The consortium comprises 15 institutions, 12 of whom are EuroGOOS members. JERICO DS will design a state-of-the-art, fit-for-purpose and visionary observational European Research Infrastructure (RI), that will provide expertise and high-quality data on European coastal and shelf seas, supporting world-class research, high-impact innovation and European excellence worldwide. This Design Study is based on national involvement to co-construct the JERICO-RI from the scientific and technical design to the business plan and governance to support their future engagement towards a Preparatory Phase. There is also a strong linkage to the European Strategy Forum on Research Infrastructures (ESFRI) process where JERICO will attempt to enter the ESFRI roadmap through a multi-national application in September 2020.
Project Budget	€2.5 million
EuroGOOS Budget	€53,643
Funding Mechanism	EC H2020 INFRADEV-01-2019-2020 call
Coordinator	Ifremer, Laurent Delauney, laurent.delauney@ifremer.fr
Consortium	15 partners from 14 countries representing all European regional seas
Project Website	http://www.jerico-ri.eu/
EuroGOOS Team Responsible	Inga Lips, Vicente Fernandez
EuroGOOS Role	WPs 1, 4 and 5 which focus on sustainability and governance.
Strategic relevance to EuroGOOS	Supports EuroGOOS strategy on ocean observations and data exchange, coastal WG and implementation of EOOS.

EuroGOOS Contribution	EuroGOOS is involved in: WP1: Co-construction of a long-term Coastal Science Plan between nations and EU in the European RI landscape – contribution to the Task 1.2 Boundaries of JERICO-RI in the national landscapes of EU Environment RIs and contribution to global coastal observations (1 PM). WP4: Sustainability (national commitments framework and stakeholder strategy) – a lead of Task 4.1: User and stakeholder strategy, contribute to the Task 4.2: Design of national commitment framework, Task 4.3: Socio-Economic Impact Assessment, Task 4.4: Design of Research Infrastructure Funding plan, Task 4.5: Financial Risk Assessment and Mitigation Strategy, Task 4.6: Business plan design for the JERICO-RI (1.83 PM). D4.1: User/Stakeholder Strategy – JERICO-RI Stakeholder analysis report added to CIS2 requirements repository developed by the European Environment Agency. WP5: Governance and organization – contribute to Task 5.2: Relations with other Environmental RIs, Task 5.5: Policy for sustaining excellence and performance, Tasks 5.6: Structuring of the legal entity and way forward (1.25 PM).
Recent Project Developments	Project activities go hand-in-hand with JERICO-S3 activities with the slightly delayed timeframe. EuroGOOS is Chairing (Henning Wehde) the Nations Committee. In 2023, several meetings with Marine Institute (Leader of WP4) and Ifremer (leader of JERICO-S3 WP9) were held to prepare the Deliverable on user and stakeholder strategy and contribute to several others, including Business Plan for JERICO RI. The project was successfully completed in January 2024.

Project Title	JERICO-S3
Duration	4.5 years (Feb 1th 2020 – July 31st 2024)
Main Objective	JERICO-RI: Joint European Research Infrastructure of Coastal Observatories – a system of systems strengthening the European network of coastal observatories providing a powerful and structured European Research Infrastructure (RI) dedicated to observe and monitor the complex marine coastal seas and to: (i) provide services for the delivery of high-quality environmental data, (ii) access to solutions and facilities as services for researchers and users, (iii) create product prototypes for EU marine core services and users, (iv) support excellence in marine coastal research to better answer societal and policy needs. Major user-driven improvements will be realised in terms of observing the complexity of coastal seas and continuous observation of the biology, access to facilities, data and services, best practices and performance indicators, innovative monitoring strategies, cooperation with other European RIs (EuroARGO, EMSO, AQUACOSM, DANUBIUS, ICOS, EMBRC, LIFEWATCH) and international scientific communities, industry and other stakeholders, and aligning strategy with COPERNICUS/CMEMS, EMODNET and GEO/GEOSS.
Project Budget	€ 9,999,933.55
EuroGOOS Budget	€93,700
Funding Mechanism	EC H2020 H2020-INFRAIA-2018-2020
Coordinator	Ifremer, Laurent Delaunay, Laurent.delaunay@ifremer.fr
Consortium	39 partners from 19 countries representing all European regional seas.
Project Website	http://www.jerico-ri.eu/
EuroGOOS Team Responsible	Inga Lips, Ana Lara-Lopez (until end 2021), Vicente Fernandez (until June 2023), Virginie van Dongen-Vogels (until March 2024) and Joseph Nolan (EOOS TF organisation)
EuroGOOS Role	Primarily in WP9 which focuses on sustainability and minor actions in WP1 and WP2.
Strategic relevance to EuroGOOS	Supports EuroGOOS strategy on coastal ocean observations and open and free data exchange.
EuroGOOS Contribution	**WP1**: Innovative monitoring strategy and Design of the System – contributing to Task 1.4: Next-generation European coastal observing system (0.2 PM). **WP2**: Linking scales, communities and processes – co-lead in Task 2.5: Interfacing with monitoring programs, non-European OOS and the political realm (1.5 PM). D2.4: Report on planned joint activities with US/Canada, Black Sea and North Africa. **WP 9**: A sustainable JERICO-RI: Preliminary design towards implementation – Co-Lead of Task 9.1: Coordination of the WP and Task 9.5: Long term governance and way towards institutional, national, and other sustainability initiatives, Lead of Task 9.2: Community of users in JERICO-RI: Analysis of Users and usage strategy, contribution to the Task 9.3: Preliminary Design of

	the JERICO-RI, Task 9.4: Business plan of the JERICO-RI (5.2 PM). D9.1: User requirement and classification. D9.6: Common action plans with other RI initiatives and one with EOOS for the future.
Recent Project Developments	**WP9**: • Attendance at the SC meetings and Jerico User Committee (JUC) meetings. • Contribution to the Nations Committee discussions on plans after the completion of the project. • Finalising two deliverables. D.2.4 - WP2- "Planned Joint International Activities": The JERICO S3 task T2.5 aimed to interface with monitoring programmes, non-European Ocean Observing Systems (OOS) and the political realm. In this deliverable, we focused on the interactions with non-European OOS and JERICO to demonstrate the synergies, needs and achievements for continued collaboration around common issues of technological and societal concern. The current actions in this regard have mainly focused on international collaboration options along the Atlantic coast and neighbouring areas in the Black and Mediterranean Seas. D.9.6 – WP9 - "Common action plans with other RI initiatives and one with EOOS for the future": To foster cooperation and coordination with existing European Research Infrastructures (RIs) at different regional, national and transnational levels, as well as other relevant communities and stakeholders (such as numerical modelling, Earth observation, decision-makers and industry) is in the focus of WP9. In the current deliverable, we describe the existing collaborations between European marine, river and terrestrial RIs, such as EMSO, EMBRC, ICOS, DANUBIUS, LIFEWATCH, GROOM, AQUACOSM, in order to foster interoperability and synergies for contributing to a comprehensive European RI service provision and implementing the EOOS. • EuroGOOS also contributed to the D.9.2 "User engagement strategy plan with metrics to assess user satisfaction/expectations".

Project Title	**EEA COINS (Copernicus Observations *In Situ* Networking and Sustainability) Contract (**EEA/DIS/R0/20/001**)**
Duration	Framework contract of four years (August 2020 – September 2024). The second Specific Contract (SC2) in this framework is running from August 2022 to July 2023.
Main Objective	The overarching purpose of the project is to assist the EEA's cross-cutting coordination of Copernicus' in situ data activities. The EEA is requesting services focussing on observational data within the domains of meteorology, oceanography, atmospheric chemistry and air quality, and climate. EuroGOOS is a partner in a consortium together with EUMETNET and NILU that primarily delivers thematic and technical support, information gathering, recording and analysis in relation to the specific thematic domains. The consortium works across the Copernicus program and specifically covers and consults the Copernicus services and Entrusted Entities.
Project Budget	€2.000.000 over a maximum of 4 years
EuroGOOS Budget	Estimated: maximum 750.000€ for entire 4 years but depending on the requested services.
Funding Mechanism	EEA via EUMETNET
Coordinator	EIG EUMETNET
Consortium	EIG EUMETNET, EuroGOOS and NILU (with an option to involve EuroGOOS members)
Project Website	https://insitu.copernicus.eu/
EuroGOOS Team Responsible	Vicente Fernández, Inga Lips
EuroGOOS Role	Ocean/marine domain experts in a wider consortium covering meteorology, hydrology, oceanography, atmospheric composition, cryosphere, chemistry, land and climate, land, atmosphere, and carbon system. Leading WPs on in situ for marine regional and coastal services (WP5), the ocean component of the CIS2 database, and contributing to Arctic Data (WP7).
Strategic relevance to EuroGOOS	EuroGOOS members provide many of the in-situ observations for the marine domain. EuroGOOS has a strategic interest in steps taken by the EEA to help sustain the in situ observing system and work in the definition of in situ requirements, and gaps, for Copernicus marine service

EuroGOOS Contribution	• Lead the Thematic Domain WPs on 'In situ coordination efforts towards the Regional and Coastal Marine Services' and leading the ocean thematic area of the Copernicus In Situ Information System (CIS2), and thereby a member of the Core Management Team composed of the project coordinator and WP Leads. • Give visibility to marine in-situ data providers to, including EuroGOOS and ROOS members, to Copernicus across domains (CIS2 database and country reports). • Provide status (factsheets) on the current observing system and the in situ data requirements of the various Copernicus Services. • Provide expertise to EEA as required to define key cross-cutting in situ data requirements for the Copernicus services. • Explain the roles and complementarity of the EEA work with regard to other initiatives delivering access to the European marine in situ data (Copernicus In Situ TAC, EMODnet and SeaDataNet).

Recent Project Developments	• IFREMER performed a quantitative study to assess the differences in the in situ platforms available in EMODnet physics and chemistry data portals and in Copernicus In Situ TAC. This assessment is being used to identify in situ platforms present in EMDOnet and not in Copernicus and start their ingestion in Copernicus In Situ. Some examples of platforms identified:
	  ○ IAPB database (International Arctic Buoy Program)
	  ○ Historical moorings (ADCP) in SeaDataNet
	  ○ CTD bottles in EMODnet, coming from not ingested in Copernicus
	• SMHI worked on adding CTD stations available from TalTech in NRT, in parallel, CTD from BSH, FMI and DMI will be approached in the same way.
	• The CIS2 database was filled with the information of all in-situ data providers (across all European Regions and by EOV) provided by INSTAC in order to produce country reports. The CIS2 was updated with the most recent CMEMS services product list. A first analysis of the (in-situ) requirements across different Copernicus services (and space component) was done, showing that the marine in situ data is serving not only CMEMS but other services (as C3S) and to the satellite component. A discussion on how to group the Copernicus Marine products by requirements has been initiated with Copernicus Marine MFCs.

Project Title	**EEA COINS (Copernicus Observations *In Situ* Networking and Sustainability) Contract (**EEA/DIS/R0/20/001**)**
Duration	Framework contract of four years (August 2020 – September 2024). The third Specific Contract (SC3) in this framework is running from August 2023 to September 2024.
Main Objective	The overarching purpose of the project is to assist the EEA's cross-cutting coordination of Copernicus' in situ data activities. The EEA is requesting services focussing on observational data within the domains of meteorology, oceanography, atmospheric chemistry and air quality, and climate. EuroGOOS is a partner in a consortium together with EUMETNET and NILU that primarily delivers thematic and technical support, information gathering, recording and analysis in relation to the specific thematic domains. The consortium works across the Copernicus program and specifically covers and consults the Copernicus services and Entrusted Entities.
Project Budget	€2.000.000 over a maximum of 4 years
EuroGOOS Budget	Estimated: maximum 750.000€ for entire 4 years but depending on the requested services.
Funding Mechanism	EEA via EUMETNET
Coordinator	EIG EUMETNET
Consortium	EIG EUMETNET, EuroGOOS and NILU (with an option to involve EuroGOOS members)
Project Website	https://insitu.copernicus.eu/
EuroGOOS Team Responsible	Virginie van Dongen-Vogels, Vicente Fernández, Inga Lips
EuroGOOS Role	Ocean/marine domain experts in a wider consortium covering meteorology, hydrology, oceanography, atmospheric composition, cryosphere, chemistry, land and climate, land, atmosphere, and carbon system. Leading WPs on in situ data for marine regional and coastal services (WP5) and contributing to the ocean component of the CIS2 database.
Strategic relevance to EuroGOOS	EuroGOOS members provide many of the in-situ observations for the marine domain. EuroGOOS has a strategic interest in steps taken by the EEA to help sustain the in situ observing system and work in the definition of in situ requirements, and gaps, for Copernicus marine service
EuroGOOS Contribution	• Lead the Thematic Domain WPs on 'In situ coordination efforts towards the Regional and Coastal Marine Services' and lead the ocean thematic area of the Copernicus In Situ Information System (CIS2). • Provide visibility to marine in-situ data providers, including EuroGOOS and ROOS members, to Copernicus across domains (CIS2 database and country reports). • Provide expertise to EEA as required to define key cross-cutting in situ data requirements for the Copernicus services.

Recent Project Developments

- The Office has engaged all EuroGOOS ROOSs to contribute to the inventory of historical in-situ datasets information for CMEMS reanalysis. For this, a questionnaire of historical (1950-2010) metadata information suited for assimilation and product validation of the time-prolonged CMEMS reanalysis products was prepared and distributed to the ROOS members. All ROOS gain financially by contributing to this task. All the obtained information is compiled into a report.
- Our Member FMI (Laura Tuomi) is engaged to contribute to a deliverable: An updated version of the CIS2 database. For this, several sub-tasks are defined:
  - Collect and validate in situ data requirements relevant for the Entities.
  - Compile and document Copernicus 2.0 in situ data requirements for all Entities.
  - Complete the information related to thematic areas.
  - Maintain and update CIS2 regularly.
  - Update CIS2 Standard Reports as necessary.
  - Contribute to the testing of CIS2 as required.
  - Prepare and update database guidelines.

Project Title	DOORS
Duration	4 years (June 1th 2021 – May 31st 2025)
Main Objective	Implement Black Sea SRIA with stakeholders and other projects and initiatives, including support and coordination of research and infrastructure to better understand the Black Sea; development and implementation of an ecosystem-based framework for Blue Economy; informing policy development and implementation; and promotion of behavioural change towards sustainability. DOORS implements three key programmes: System of Systems, Blue Growth Accelerator, and Knowledge Transfer and Training.
Project Budget	€9M
EuroGOOS Budget	€200.000 (15PM)
Funding Mechanism	EU Horizon Europe
Coordinator	GeoEcoMar, Adrian Stanica
Consortium	35 partners from 6 Black Sea participating countries (incl. Moldova) and some other countries outside the Black Sea, as well as Marine Research Infrastructure consortia (ERICs).
Project Website	https://www.doorsblacksea.eu/
EuroGOOS Team Responsible	Dina Eparkhina
EuroGOOS Role	Help enhance capacity in the Black Sea and develop stakeholder engagement activities towards ocean services for the Blue Economy and societal engagement, which would generate support and buy-in.
Strategic relevance to EuroGOOS	Supports the EuroGOOS vision to expand into the Black Sea in enhancing its ocean observing and forecasting system. Supports strategic objectives: 1 (community of practice) – working with marine Research Infrastructure consortia on knowledge transfer; 2 (coordinated and integrated system) – developing stronger links in the Black Sea system with national and regional stakeholders and users; 3 (partnerships) – supporting blue economy applications of ocean observing services; 5 (public) – developing ocean literacy activities in science and technology.
EuroGOOS Responsibilities	**WP8** leader of WP8 Stakeholder Engagement and Legacy. Involvement in other WPs to efficiently support WP8.
Recent Project Developments	As WP8 Leader, EuroGOOS contributed to: • WP management (25 organizations from 11 countries and 5 pan-EU organizations). Leader of tasks 1 – Engaging stakeholders, 2 – Knowledge Transfer from Research Infrastructures, and 3 – Youth Engagement and Ocean Literacy. • Co-organisation with coordinator, participation in panels, and organisation of workshop at the 1st DOORS Stakeholder Conference 'Black Sea Futures: Science, Prosperity, and People' (23-24 April 2024, Bucharest) https://www.doorsblacksea.eu/stakeholderconference.

- Visibility at pan-EU events (European Maritime Day 2023 and 2024, Common Maritime Agenda Conference 2023, European Ocean Days 2024, etc)
- Reports and workshops at General Assemblies (June 2023 – Trabzon, Turkiye, June 2024 – Chisinau, Moldova).
- Establishment and co-leadership of the DOORS ocean literacy network bringing together academia, NGOs, and communicators.
- Development of the DOORS foresight committee.
- Contribution to the DOORS dissemination through the website, social media, and newsletters.

Project Title	Blue-Cloud 2026
Duration	42 months (January 2023- June 2026)
Main Objective	Blue-Cloud 2026 aims at a further evolution of its pilot ecosystem into a Federated European Ecosystem to deliver FAIR & Open data, analytical services, instrumental for deepening research of oceans, EU seas, coastal & inland waters. It develops a thematic marine extension to EOSC for open web-based science, & serves needs of the EU Blue Economy, Marine Environment and Marine Knowledge agendas. Blue-Cloud 2026 covers activities at a growing number of federated environmental RIs to improve & optimise services for uptake of new data sets from a multitude of data originators and for discovery and access to their structured data collections. The advanced ecosystem will provide a core data service for the Digital Twin of the Ocean, mobilising and making available major additional data resources as validated and harmonised in-situ data by means of Data Lakes.
Project Budget	€8 845 420.00
EuroGOOS Budget	€ 121 062.50
Funding Mechanism	HORIZON-INFRA-2022-EOSC-01
Coordinator	Trust-IT, MARIS, CNR
Consortium	38 partners
Project Website	https://blue-cloud.org/blue-cloud-2026
EuroGOOS Team Responsible	Deniz Karaca (WP6 and WP7), Alicia Blanco & Vicente Fernandez (WP6), Inga Lips (WP1 and WP7)
EuroGOOS Role	The main role is to co-organize (together with OBPS and OTGA) internal and external training courses on Best Practices for FAIR data principles. Those trainings are aimed at informing and educating data providers and users on FAIR principles and how to make best use of existing European RIs and data services for long-term data stewardship and wider use and sharing of FAIR data.
Strategic relevance to EuroGOOS	The Blue Cloud initiative, developed by Blue Cloud 2026, is relevant in the context of major EU data and knowledge initiatives with a marine focus, including EuroGOOS and the new EOOS (European Ocean Observing System). Furthermore, it is an implementation as part of the European Open Science Cloud (EOSC), sharing and using key features and principles of EOSC to develop and shape a more integrated European aquatic data management landscape.
EuroGOOS Contribution	• **WP1** (Project Management and coordination): contributing to the task on technical coordination (1PM). • **WP6** (Outreach, engagement, and education): leading task T6.2 on Blue Training Academy (5.5 PM). • **WP7** (Exploitation, Strategic Roadmap to 2030 and Sustainability): Contributing to tasks 7.1 and 7.3 to establish a community dialogue to advance common practices for data sharing and management and updating, evolving, and broadening the scope of Blue-Cloud Strategic Roadmap to 2030 (4.1 PM).

Recent Project Developments

- Deniz, as the leader of the Training Academy, coordinated the regular task meetings and the organisational momentum for WG6 within Task 6.2, which remained robust and exhibited commitment.
- The first Webinar series on FAIR data was held on 26 September 2023 and brought together more than 100 participants across 6 continent, entitled "FAIR Data Principles 1: Foundational components, best practices and standards". The webinar focussed on the challenges and solutions in applying the FAIR foundational components on the journey from FAIR Principles to FAIR Practices to achieve FAIRification.
- The second webinar series focussing on FAIR data principles "Making Marine Data FAIR: FAIR Assessment of Marine Data & Information" was organised on 23 April 2024. Webinar provided crucial aspects of fairness within the marine domain.
- The second General Assembly of the Blue-Cloud 2026 was held on 7-9 November 2023 in Rome and brought more than 70 representatives of the consortium to discuss the work performed in the first year of the project as well as upcoming activities. Deniz presented the results of the webinar series and the progress in fostering the uptake of open science practices and FAIR data principles in the marine domain.
- The 3rd General Assembly will be organised online on 6-8 May 2024.

Project Title	EU4Ocean
Duration	3 years (15 December 2022-14 November 2025)
Main Objective	The EU4Ocean coalition is a flagship European Union initiative to improve citizen's awareness of the importance of the ocean and promote co-design of solutions. The new wave of the initiative started in December 2022 with the beginning of a new tender project. EuroGOOS, JPI Oceans and others are among several scientific networks and associations who are subcontractors in the tender. A series of activities will be developed by the office with the contribution of the OLWG, in the coming three years.
Tender Available Budget	€2.5M
EuroGOOS Budget	€60K
Funding Mechanism	CINEA tender
Coordinator	ACTeon, France
Consortium	Partners: ACTeon, Seascape Belgium, Youth and Environment Europe, EMSEA, Nausicaa, Ciencia Viva, Revolve, Farah Yasmin Obaidullah (freelancer) Subcontractors: EurOcean, European SchoolNet, JPI Oceans, EuroGOOS, Euractiv, European Association of Zoos and Aquariums
Project Website	https://maritime-forum.ec.europa.eu/en/frontpage/1482
EuroGOOS Team Responsible	Dina Eparkhina
EuroGOOS Role	• Raise the societal and political profile of ocean literacy in link with EU Ocean Observations initiative • Connect with ocean observing community • Act as multiplier • Support #MakeEUBlue campaign • Support expansion of EU4Ocean platform
Strategic relevance to EuroGOOS	Promotes the EuroGOOS 2030 Strategy objective on public mobilization and the activities of the EuroGOOS Ocean Literacy Working Group
EuroGOOS Responsibilities	3PM in WP4 'EU4Ocean coalition – thematic focus and results'; 2PM in WP5 'Advocacy Campaigning and high visibility actions'; 1PM in WP6 'Robust, professional and independent communication'
Recent Project Developments	• Preparations for the training for scientists to engage in ocean literacy – first survey to scientists at the EuroGOOS Conference (Oct. 2023). • Development of youth engagement plan. • Participation at EU4Ocean showcases (World Ocean Day 2023 – June, Brussels, and European Ocean Days – March 2024, Brussels).

Project Title	FOCCUS – Forecasting and observing the open-to-coastal ocean for Copernicus users
Duration	36 months (January 2024 - December 2026)
Main Objective	The FOCCUS aims to enhance existing capability and develop innovative coastal products. It will do so by designing and demonstrating the integration of Copernicus and Member State coastal services. This will allow to better address challenges such as the protection of coastal zones, the development of sustainable blue economies and the building of coastal zones' resilience to climate change, anthropogenic pressures and natural hazards. At the heart of the proposed changes is the use of new space and in-situ coastal observations, innovations in data fusion, data processing and visualisation together with seamless numerical coastal prediction. FOCCUS will link to several European programs and networks, in addition to several selected European Horizon 2020 (H2020) and Horizon Europe (HE) projects.
Project Budget	€4 999 655.62
EuroGOOS Budget	€ 68,593.75
Funding Mechanism	Lump sum
Coordinator	Helmholtz-Zentrum HEREON GmBH (Joanna Staneva)
Consortium	19 partners (13 EuroGOOS members)
Project Website	*Not yet ready*
EuroGOOS Team Responsible	Alicia Blanco (WP10, WP11), Inga Lips (WP1, WP10, WP11). Virginie Van Dongen-Vogels left the Office, so EuroGOOS agreed to transfer 3 PM to RBINS (Coastal WG) to support activities in WP10.
EuroGOOS Role	EuroGOOS, Office together with the Coastal WG, is leading the task on the inventory of existing operational coastal models operated for MS, which will be developed to assess their level of maturity, applications, dependence with in situ observations and forcing fields, and needs with respect to Copernicus Marine (D10.3). The inventory will leverage and build on past, on-going and planned initiatives and will inform the co-design of R&I and applications within FOCCUS as well as its long-term exploitation through an uptake within the Copernicus Marine Service. This is also a EuroGOOS/Coastal WG contribution to the Ocean Prediction Decade Collaborative Center work. The Office will also contribute to the WP11 task on Member states - Copernicus engagement.
Strategic relevance to EuroGOOS	Updated modelling inventory was in the plans of the Office and the Coastal WG. The project allows to align with the similar Global initiative in the Ocean Predictions DCC.
EuroGOOS Contribution	• **WP1** Project Management and coordination: contributing to the task on technical coordination (3 PM). • **WP10** Communication, Dissemination, Exploitation planning; co-design and stakeholder engagement: Leading (with Coastal WG – 3 PM) the modelling inventory (1.25 PM). • **WP11** Communication, Dissemination, Exploitation, Stakeholder Engagement - Full implementation; Uptake in Copernicus Marine: Member states Copernicus engagement (1.5 PM).

Recent Project Developments	• Hybrid Kick-off meeting held on 6-8 March 2024. Virginie attended and introduced EuroGOOS and its contribution to the project.

Project Title	ObsSea4Clim
Duration	48 months (February 2024 - January 2028)
Main Objective	Ocean observing is executed and financed by nations according to their national interest and needs, but aligned with European and international agreements and directives. ObsSea4Clim brings together key European and international actors within ocean observing science, climate assessment, Earth System modelling, data sharing and standards, with users of oceanographic products and services with the goals of: - improving sustained and multipurpose observations vital to European and global climate requirements, and - delivering an improved observation framework based on EOV/ECVs and embedded in a Rolling Review of Requirements approach. ObsSea4Clim will: - improve regional and global climate assessments and - provide projections and actionable indicators for sustainable development provided.
Project Budget	€ 5.9 M
EuroGOOS Budget	€ 168,125
Funding Mechanism	Horizon Europe call HORIZON-CL6-2023-CLIMATE-01
Coordinator	Steffen Olsen (DMI, Denmark)
Consortium	19 partners
Project Website	https://obssea4clim.eu/
EuroGOOS Team Responsible	Joseph Nolan (WP6), Inga Lips (WP1, WP6)
EuroGOOS Role	Clustering of activities with other projects funded through the same call (BGC and biological EOVs), to form a 'European EOV network', with the projects' legacy potentially sustained within the existing framework of EuroGOOS WGs.
Strategic relevance to EuroGOOS	Ensuring the EuroGOOS community is well represented in activities to continue development of EOVs, particularly through the project's planned stakeholder engagement activities. The existing EuroGOOS Working Groups are noted as a potential structure to maintain the strategically relevant legacy of the project.
EuroGOOS Contribution	• **WP1** (Dissemination, Communication, Uptake, and Management): contributing to the task on technical coordination (1PM). • **WP6** (Maximising impacts and promoting multi-disciplinary ocean observing): Work package co-lead, lead of Task 6.1 (Dialogue and clustering with sister projects and promotion of multi-disciplinary ocean observing) (12 PM).
Recent Project Developments	• Kick off meeting held in Copenhagen in March 2024. • Stakeholder mapping activities ongoing.

Project Title	BioEcoOcean
Duration	48 months (February 2024 - January 2028)
Main Objective	The BioEcoOcean project proposes a foundational change in how we approach biological and ecosystem (BioEco) ocean observations, which will have significant impacts across the various sectors and stakeholders involved. The key objective of the project is to co-create a comprehensive, fit-for-purpose, and inclusive Blueprint for Integrated Ocean Science (BIOS) that promotes a holistic approach, fosters effective communication and collaboration among stakeholders and sectors, and enables interoperability.
Project Budget	€ 5,6 M
EuroGOOS Budget	€ 261,875
Funding Mechanism	HORIZON-CL6-2023-CLIMATE-01-8, Horizon Innovation Actions
Coordinator	University of Uppsala, Lina Mtwana Nordlund, lina.mtwana.nordlund@geo.uu.se
Consortium	9 partners from 6 European countries: Sweeden, Denmark, Belgium, Italy, France, Portugal and Poland
Project Website	https://bioecoocean.org/
EuroGOOS Team Responsible	Deniz Karaca (WP6, WP2), Inga Lips (WP1, WP2, WP6)
EuroGOOS Role	Leading, coordinating and monitoring the WP6 activities within the main four tasks. Clustering of activities with other projects funded through the same call.
Strategic relevance to EuroGOOS	Supports EuroGOOS strategy on ocean observations and data exchange, integration of biological components, and ultimately implementation of EOOS.
EuroGOOS Contribution	• **WP1** Project management and coordination – contributing to the task on technical coordination (1 PM). • **WP2** Blueprint for Integrated Ocean Science (BIOS) development – contribute to the creation, testing and refining of a blueprint for an end-to-end co-designed ocean observation for biology and ecosystems, which enables science-based decision-making for climate, operational services, and ocean health applications (2 PM). • **WP4** Blueprint Application & Testing – Demonstrating an operational workflow for BioEco EOV development – Contributing to the development of new EOV and ECV products to support ecosystem forecasting, climate modelling and global assessments (2 PM). • **WP5** Capacity development for integrated ocean observation – contributing to the development and implementation of a comprehensive online training course for Blueprint usage (2 PM). • **WP6** Communication, Dissemination and Exploitation – WP lead. EuroGOOS is also leading two tasks under WP6: Task 6.1 Coordination and impact monitoring and Task 6.4. Cross-domain integration and exploitation (12 PM).

Recent Project Developments

- The kick-off meeting was held online on 5-7 March 2024. Deniz presented WP6 in collaboration with partners. This gathering facilitated fruitful discussion and provided a solid ground for the upcoming in-person meeting scheduled on 6-9 March 2024 in Sopot, Poland.
- The first Steering Group meeting was held online on 23 April 2024. Deniz attended the meeting to discuss the strategic planning, co-creation of operational workflows, cross-domain integration and engagement with twin projects, stakeholder mapping exercise and monitoring the scientific and societal impact of BioEcoOcean.
- The first in person will take place on 6-8 May 2024 in Sopot, Poland.

Project Title	AMRIT
Duration	48 months (March 2024 – February 2028)
Main Objective	The European Ocean Observing System (EOOS) is the foundation of European ocean knowledge. The core Marine Research Infrastructures (MRIs) focused on ocean observing (EMSO, EURO-ARGO and ICOS ERICs; EuroFleets+, EuroGoShip, GROOM RI, JERICO RI and MINKE as INFRA projects) are the main providers of in situ ocean data for the EOOS and Copernicus, and the primary managers of instrumental capacity supporting fundamental research. These MRIs are aware that the lack of effective cross coordination prevents them from fully supporting frontier research, while the lack of integration makes it difficult to reach a critical mass for EOOS and results in significant cost duplication. Accordingly, AMRIT gathers these MRIs together with OceanOPS/WMO international coordination experience with the objective to: - ensure seamless operation of marine observation platforms; - ensure the full nominal use of sensors and accelerate their evolution; - exploit the complementarity of the various observation platforms; - ensure the overall coherence of the ocean data value chain. To achieve these objectives, AMRIT will design and implement an EOOS Technical Support Center (EOOS TSC) for - a fully integrated information service across the data value chain from early planning stages to final delivery to users; - a cross-platform fully standardised data acquisition methodology for Essential Ocean Variables; - a collaborative federal structure to operate these services, relying on the MRIs and their members. The EOOS TSC will be the cornerstone in establishing and maintaining the EOOS, upon which European ocean observing can be strengthened in the coming decades. AMRIT will provide a catalyst for the development and consolidation of MRIs throughout Europe, providing a benchmark for operational coordination and collaboration. AMRIT will advance EOOS in line with its 2023-2027 Strategy and beyond, and the European Commission's ambitions for sharing responsibility in ocean observing across Europe.
Project Budget	€ 4.67 M
EuroGOOS Budget	€ 203 718.75
Funding Mechanism	Horizon Europe call HORIZON-INFRA-2023-DEV-01 NB – AMRIT is a lump sum project. Therefore work packages are arranged differently from conventional Horizon projects for administrative reasons.
Coordinator	ARMINES, France
Consortium	26 partners
Project Website	Coming soon
EuroGOOS Team Responsible	Joseph Nolan (WP4, WP5, WP6, WP7, WP11, WP16), Inga Lips (WP1, WP2, WP3, WP4, WP5, WP6, WP7, WP11, WP16)

EuroGOOS Role	Stakeholder input to design of tools and services developed, particularly through engagement of ROOSs. Promoting uptake of AMRIT tools and services, including through trainings developed with technical develops in the project. Organisational design of the EOOS Technical Support Centre (TSC) that will serve to sustain the legacy of AMRIT, including with technical maintenance of tools and services, and a helpdesk for users.
Strategic relevance to EuroGOOS	AMRIT will implement a significant part of the EOOS Strategy 2023-2027, particularly in relation to actions for development of a 'European OceanOPS'
EuroGOOS Contribution	• **WP1-3** (Management): contributing to the task on technical coordination (0.5 PM). • **WP4-6** (Communication, Exploitation and Dissemination): Assessment of user needs and stakeholder input to the development of EOOS tools and services, contribution to overall communication of project, technical report on status of EOOS, and high-level dissemination event (8 PM) • **WP7** (EOOS Integrated System Performance Monitoring dashboard): Contributing partner to development and demonstration monitoring dashboard for EOOS performance and capabilities (0.5 PM) • **WP11** (Stakeholder uptake of EOOS Tools and Services): WP lead, EOOS tools and services training for MRI operators (2.5 PM) • **WP16** (Sustained federal structure for the EOOS Technical Support Centre): WP lead, Organisational development of EOOS TSC federal structure, contribution to planning for stainability of the EOOS TSC and its federal structure (3.25 PM)
Recent Project Developments	Kick off meeting held in Brussels in April 2024, hosted by JPI Oceans.
Note	AMRIT is a lump sum project. Therefore work packages are arranged differently from conventional Horizon projects for to allow reasonable scheduling of payments.