

Agenda Item 13: Status of 2016 GA Actions

Document 13.1: Report of the 2016 EuroGOOS General Assembly

Report

- All referenced documents and meeting presentations are available the restricted member pages.
- List of annexes:
 1. Full list of actions and decisions
 2. Member contributions 2017
 3. DATAMEQ WG recommendations (October 2015)
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 5. List of participants
- A news item on EuroGOOS website was released on 1 June 2016:
<http://eurogoos.eu/2016/06/01/eurogoos-2016-general-assembly-main-outcomes/>

Special Open Session: Oceanographic products, Research Infrastructures, European Ocean Observing System

1. Opening

Erik Buch, EuroGOOS Chair, opened the meeting welcoming the EuroGOOS members, chairs of EuroGOOS working groups, task teams and the Regional Operational Oceanographic Systems, ROOSes. He extended a special welcome to the invited speakers of the EuroGOOS special session. Erik Buch ran through the agenda of the meeting and the open session dedicated to oceanographic products, research infrastructures, and the development of a European Ocean Observing System, EOOS. The Chair also announced that the award ceremony for the Kostas Nittis Medal 2016 was taking place after the open session, and all session participants were invited. He reminded the meeting that the Kostas Nittis Medal was inaugurated in 2015 in the presence of Commissioner for Environment, Maritime Affairs and Fisheries Karmenu Vella during the European Maritime Day 2015 in Athens, Greece.

2. EuroGOOS overview

Among the main updates since the General Assembly 2015, Glenn Nolan, EuroGOOS Secretary General, mentioned that the EuroGOOS office gained two new staff members employed directly by EuroGOOS AISBL, and both working full time in Brussels: Dina Eparkhina, coordinating communication and outreach, and Vicente Fernandez, providing scientific support mainly within the EuroGOOS activities in the EU Horizon 2020 AtlantOS project.

Glenn Nolan introduced EuroGOOS and its activities towards cooperation and strategic alignment among national, regional and pan-European oceanographic services. EuroGOOS has been leading the development of the European Ocean Observing System, EOOS, working in partnership with the European Marine Board.

Glenn Nolan announced to the meeting that EuroGOOS first policy brief was prepared and successfully launched at the European Maritime Day 2016 in Turku, Finland. The policy brief, titled European Operational Oceanography: Delivering services for Blue Growth and ecosystem-based management,

was prepared based on the paper by the EuroGOOS Science Advisory Working Group (SAWG), with Jun Che as chair of the working group and the lead author. This is the first EuroGOOS publication tailored specifically to policymakers. To this end, the EuroGOOS office transferred the technical recommendations of the SAWG report to a policy-relevant language. The report was welcomed at the European Maritime Day and handed to representatives of the European Parliament (Ms Gesine Meissner, MEP and chair of the SEARICA EP intergroup), European Commission (Ms Sigi Gruber, Head of Marine Resources Unit at DG Research and Innovation), Commission's Joint Research Centre (Vittorio Barale), as well as the Group on Earth Observations (Douglas Cripe).

3. MSFD: Oceanographic products under development in Europe

Urmaz Lips, vice-Chair of HELCOM and Chair of the EuroGOOS BOOS, introduced the HELCOM organizational structure and activities, as well as the HELCOM's interactions with the BOOS and European data coordination initiatives.

HELCOM is an intergovernmental organization bringing together Baltic Sea states around the topic of the environmental protection. BOOS is a consortium of individual national agencies delivering marine observation and data products and services for their respective national needs as well as to the BOOS regional system and, through BOOS, to the European data integration initiatives such as EMODnet, Copernicus Marine Service (CMEMS), and SeaDataNet. The relationship between HELCOM and BOOS should be considerably strengthened for the mutual benefit of both relationships.

HELCOM is well advanced in the development of a number of Marine Strategy Framework Directive, MSFD, indicators across physical and biological parameters. They are developing monitoring manuals and guidelines and deliver concrete recommendations to national authorities.

During the following discussion it was mentioned that EuroGOOS can help bringing HELCOM and BOOS closer together, while at the same time the Baltic experience is useful for other European sea regions. It was also noted that currently HELCOM is neither contributor to nor user of CMEMS.

Shane O'Boyle presented the European Commission's work to help Member States deliver on MSFD. The directive is regarded as one of the principle instruments to protect the marine environment, representing the environmental pillar of the EU Integrated Maritime Policy. According to MSFD European member states are required to achieve Good Environmental Status, GES, in their seas by 2020. The stage of initial assessments of the GES has been reached and Member States are currently preparing updates of the initial assessment, the determination of GES, and their environmental targets.

Ecosystems and Fisheries Products

- **ICES Working Group on Operational Oceanographic Products for Fisheries and the Environment, WGOOFE**

Rodney Forster, University of Hull, UK, presented WGOOFE – a cross-cutting working group focusing on users and products formed in 2008. The group's membership spans different sectors and areas. The group is currently working on improving its database of products and addressing specific gaps previously identified within its activities, e.g. plankton. They are also seeking to expand and have suggested that EuroGOOS Products Working Group could join forces with WGOOFE.

In the questions and answers session, Rodney Foster and Erik Buch stressed the importance of clear language in communicating both oceanography in general and oceanographic products in particular, in order to reach the users.

- **Oceanographic products for fisheries**

Richard Nash, IMR, Norway, presented the types of oceanographic products required for fisheries. He emphasised the (near)real-time data availability is important across various parameters pointing out a critical lack of biological data. He mentioned also the lack of updated information and reliable and quality datasets available openly.

Coastal Safety Products: Storm surge systems

Enrique Alvarez Fanjul, Puertos del Estado, Spain, and co-chair of MONGOOS, presented nowcast and forecast products developed in Spain. He introduced a new REDMAR network working monitoring in real time various sea-level phenomena and triggering alerts.

Marine services for Industry: Case studies from the energy sector

Caroline Acton, Met Office, UK, presented case studies from the energy sector. Due to an extensive experience of working with the oil and gas industry valuable feedback has been collected. Caroline Acton explained how Met Office have been working with industry and making tailor products for them. Information interface (understandable and easy to use) was stressed. She informed the meeting that IOGP had released a report on how to address the data challenge for new collection methods and technology to gather data. Data inventory would provide an opportunity to prevent duplication and access marine and land data through individual agreements.

EuroGOOS products activities

Erik Buch asked thee meeting to reflect on the EuroGOOS contribution to the development and use of oceanographic products, for different purposes and for different users. The following suggestions were made:

- Products activities should be focused on the EuroGOOS identified priority areas, and dialogue with end users in each of those areas.
- Service/interaction with clients is important. Each activity needs a different product, e.g. sometimes this can be advice on where to get the product. Companies understand “Euros” not “geophysics”.
- Product should be understood by the user. But users are all different. Some products considered important by oceanographers are not searched for by the users. Therefore, it is important to engage in dialogue to collect user feedback.
- Market should be investigated too.
- A suggestion was made that instead of a Products WG, EuroGOOS should rather have a user-engagement activity, or a products-broker group/service.
- Staff capacity to engage with users is important.

Case studies on research infrastructure cooperation

- **Networked vehicle systems for persistent Atlantic observation**

João Tasso de Figueiredo Borges de Sousa, LSTS, Porto University, Portugal, presented on a system of observing vehicles networked with the same software on different types of platforms. The system allowed running operation on small to large scales.

- **European Research Vessel Operators, ERVO**

Andre Cattrijsse, VLIZ, Belgium, presented on the ERVO network, bringing together research vessel managers in Europe. ERVO was created as a Marine Board panel in 1999 and once established turned independent driven by its members. Currently, ERVO is looking for expanding towards the Baltic and East Mediterranean.

4. EOOS Progress and next steps

Glenn Nolan presented on the state of play regarding the development of the EOOS framework. EuroGOOS has taken a leadership role, together with the European Marine Board, to develop a framework for an integrated and sustained European Ocean Observing System, EOOS. In May 2015, the two organizations held an expert brainstorming workshop to reflect on what EOOS should be like. As one of the workshop recommendations, an EOOS steering group was convened in Spring 2016 with the first meeting taking place in April at the EuroGOOS premises. The steering group, co-chaired by EuroGOOS (Glenn Nolan) and Marine Board (Niall McDonough) brings together some of the member state representatives, as well as JPI Oceans and DG MARE. The EOOS steering group was developing an EOOS consultation document, outlining the high-level concept and rationale for this framework and which will serve as a background for an open online stakeholder consultation on EOOS.

The following points were mentioned by the meeting delegates:

- In presenting the data coverage it is important to explain that not all the dots on the map represent valid information points. Rather it is important to show how close or far we are from a full picture and explain what is needed to complete it.
- Funding gaps for some observing platforms are an issue and EOOS will help explaining this.
- EOOS should link with the EEA work on the in-situ coordination for Copernicus. It was noted that EuroGOOS had applied for an EEA tender to guide EEA in this process.
- EOOS should address the current disconnect between different communities, e.g. operational oceanography and climate modelling, as well as the Copernicus missions.
- The EOOS contribution to GOOS should be explained.
- It was stressed that in-situ observations are a cornerstone of the space component, but this was not getting attention. Furthermore, it is timely for EOOS to demonstrate the difference between the financial inflow into Sentinels and the reductions in in-situ funding.
- A strong (high-level) political interest in ocean observing was stressed as a great opportunity to promote EOOS.

5. Overview of main discussion points and closing remarks

Erik Buch thanked EuroGOOS delegates and invited speakers and guests, and summarized the discussion points. He invited the meeting delegates to attend the Kostas Nittis Medal award ceremony and a following official dinner.

Kostas Nittis Medal to Young Researcher Award Ceremony

The EuroGOOS Kostas Nittis Medal was established in 2015 to commemorate the work and achievements of Dr. Kostas Nittis (1964-2014), EuroGOOS Secretary General and strategic leader. The medal is accompanied by a grant of €3,000 to be used by the winner to attend and present at relevant international conferences. The first medal was awarded at the European Maritime Day in Athens in 2015 by European Commissioner for Environment, Maritime Affairs and Fisheries, Karmenu Vella. The 2016 award ceremony took place at a dedicated session of the EuroGOOS Assembly. The medal and the grant were awarded to Angelique Melet, a young researcher from Mercator Ocean, France.

6. Annual reports

Erik Buch presented the Chair's report. He updated the meeting on the EuroGOOS strategic activities and touched upon the value of ocean observations and data exchange, forecasting and products. He also mentioned the EuroGOOS role in the global landscape and the role in GOOS and GEO.

Glenn Nolan presented the office report, including a review of the EuroGOOS working groups, task teams, and ROOSes. He ran through the EU projects the office is involved in on behalf of the membership (8 in total, 5 Horizon 2020 grants and 3 EC tenders). Glenn Nolan stressed that all the projects are interlinked and serve the implementation of the EuroGOOS strategy. Further details on those activities are provided in the written office report to the Assembly.

During the discussions, the following points were made:

- The meeting welcomed the EuroGOOS efforts to promote collaboration between CMEMS and EMODnet.
- The meeting stressed the importance of promoting ocean in GEO and the importance of EuroGOOS work in this.
- It was noted that products for MSFD remain an important issue and EuroGOOS can increase its efforts in this respect, especially on the biological component.

Action 1: circulate the draft results of the AtlantOS analysis, after it has been disseminated to WP1 (Office to members, 31 March 2017)

7. EuroGOOS Strategy and 2016-2017 priority areas

Glenn Nolan presented the EuroGOOS short-term priorities which have been developed by the office based on the EuroGOOS 2014-2020 strategy and adopted by the Executive Board who met prior to the General Assembly. Unlocking and integrating European data is one of the main EuroGOOS priorities, the other important emphasis has been identified on the communication as an interface between the community, policy, and industry. A discussion followed on the importance of user uptake activities for both EuroGOOS and the ROOSes.

Glenn Nolan summarized the EuroGOOS short to mid-term priorities as follows:

- Establish EuroGOOS as the "go to place" for operational Oceanography by being a trusted source of relevant and timely information to marine and maritime stakeholders in all European sea basins;
- Develop a framework for sustained end-to-end European Ocean Observing System (EOOS);
- Expand EuroGOOS membership to ensure that all active participants in European operational oceanography are represented by the organisation;
- Demonstrate European leadership at global level by engaging fully with the Global Ocean Observing System (GOOS), Essential Ocean Variable panels, GOOS Regional Alliances Forum and with the Group on Earth Observations (GEO) in the development of the Group on Earth Observations System of Systems (GEOSS);
- Provide an attractive communications platform for the policy community to expand understanding of ocean observing activities and their link to key policy drivers.

8. Communication updates

Dina Eparkhina presented EuroGOOS communication activities. The EuroGOOS communication strategy was first presented to the membership at the 2015 General Assembly. Since a year, the office has developed several new dissemination materials and published the first EuroGOOS science policy brief based on the scientific article from the EuroGOOS Science Advisory Working Group chaired by Jun She. In addition, EuroGOOS was represented at several European and international exhibitions, including, among others, the European Maritime Day in Turku and COP21 in Paris. Dina Eparkhina stressed that EuroGOOS communication is not being developed as a mere set of communication outputs but as a strategic imperative for growth, building on the EuroGOOS Strategy and an ongoing evaluation of a changing science-policy landscape. Building an integrated European Ocean Observing System is an important objective of the EuroGOOS communication strategy.

It was pointed out that EuroGOOS website features the main policy updates and articles about the outcomes of EuroGOOS and stakeholder events. EuroGOOS office will also develop a website and a communication strategy for EOOS.

Furthermore, the office is engaging directly with relevant European Commission directorates-general. Meetings took place with DG Research and DG GROW, for instance. A meeting with DG Environment is planned in the last part of 2016. At stakeholder events, high-level representatives of the European Commission, IOC, and other relevant organizations are receiving copies of the EuroGOOS documents and publications (e.g. Commissioner Vella was handed EuroGOOS promotional materials at COP21; representatives of DG Research, JRC and GEO received a copy of the new EuroGOOS policy brief at a dedicated launch of the publication during the European Maritime Day in Turku).

9. Reports from ROOSes

EuroGOOS ROOS Chairs presented the ROOS annual reports and priorities for the coming years. Chairs informed the meeting about additions in the ROOS memberships and services, further to their written contributions submitted to the meeting in advance. The difference of data availability between CMEMS and EMODnet was discussed. EuroGOOS office is preparing an inventory. Biogeochemical data was stressed as a priority.

10. Discussion on EuroGOOS membership expansion to include all ROOS members and communication aspects

Erik Buch stressed that in EuroGOOS expansion strategy the priority is given to gain members from the ROOS organisations who are not members of EuroGOOS. He reminded the meeting about the EuroGOOS membership benefits brochure (available on the website at: <http://eurogoos.eu/download/publications/EuroGOOS-MemberBenefits.pdf>). EuroGOOS office is ready to provide any relevant documents or presentation slides to further explain the benefits of EuroGOOS membership to prospective members.

11. Reports from Working Groups

Working Group Chairs presented on the activities:

- The article prepared by the Science Advisory Working Group on Operational Oceanography Priorities in the framework of the Blue Growth was in the process of peer review with the EGU's online Ocean Sciences journal. Based on this extensive article, the EuroGOOS office delivered a short policy brief targeted at policymakers, in time for the drafting of the EC 2018-

2020 work programme and setting out the agenda for the 9th Framework Programme, 2021-2027.

- New Technology Plan Working Group Chair, Rajesh Nair, whose role was approved at the Executive Board meeting in October 2015, started preparing a white paper on technologies underpinning operational oceanography.
- Data Management, Exchange and Quality Working Group continued fostering collaboration among the main European marine data aggregators, CMEMS, EMODnet and SeaDataNet. The latest working group meeting adopted a set of recommendations. Members were requested to approve these recommendations during the formal meeting the next day (see annex 4; released after the meeting on the WG webpage: <http://eurogoos.eu/data-management-exchange-quality-working-group-data-meq/>).
- Coastal Ocean and Shelf Seas Modelling Working Group currently has no chair. John Siddorn, WG member, presented the modelling survey conducted by the group and which demonstrated that many models are not connected with CMEMS, and that there is a need to better link CMEMS with national centres.

The meeting discussed the promotion of EuroGOOS member products with a focus on user engagement. EuroGOOS website is a good platform for this and the office will liaise with individual members to update their information.

Action 2: send out a call for nominations for TP WG to members (Office with Rajesh Nair, 30 January 2017)

Action 3: submit DATAMEQ recommendations for approval by EuroGOOS Assembly (Patrick and Sylvie, by 27 May AM).

Action 4: investigate user engagement mechanism (Office and Executive Board, 30 January 2017)

12. Report from EuroGOOS task Teams

Task Team Chairs presented activities further to the written updates provided in the office report to the General Assembly.

- Tide Gauge Task Team completed a survey on the status and needs of the existing tide gauge stations in the European regions.
- FerryBox Task Team presented a white paper on achievements and user needs for FerryBox systems.
- HF Radar Task Team are conducting a survey and organizing a stakeholder workshop in Autumn 2016.
- Euro-Argo ERIC, acting as EuroGOOS Task Team through an MoU with EuroGOOS AISBL, is developing its strategy.
- New Task Team on Tagged Mammals was presented by the candidate chair, Professor Lars Boehme, who demonstrated the importance of these observing platforms and how the data is integrated at the global scale.
- New Task Team on Fixed Platforms was presented by Richard Lampitt, who explained the rationale for a EuroGOOS umbrella including all European efforts in fixed platform marine infrastructures.

13. Status on EuroGOOS project involvement

Glenn Nolan presented on the EuroGOOS involvement in five EU projects and three tenders. He stressed that EuroGOOS is running for projects of direct relevance to the implementation of the EuroGOOS Strategy.

14. Overview of main discussion points and closing remarks

Erik Buch presented an overview of the meeting actions (see annex 1) and invited the meeting delegates to a tasting reception of artisanal Belgian beers.

Formal Session: EuroGOOS governance, finances and approval of new activities

15. Opening and adoption of agenda

Erik Buch opened the formal meeting of the EuroGOOS General Assembly and asked for any comments on the agenda. The meeting agenda was adopted without any comments.

16. Status of the actions from the last General Assembly

Erik Buch ran through the actions from the last General Assembly. All actions were completed or in progress.

Erik Buch reminded the meeting about the set of DATAMEQ recommendations and asked if those can be approved.

Decision: DATAMEQ WG recommendations from the October 2015 meeting were approved

17. Approval of the EuroGOOS Rules revisions

Erik Buch ran through the updates in the EuroGOOS Rules, tracked in the meeting document submitted to the Assembly. The members approved all changes.

Decision: the proposed updates of the Rules were approved

18. Approval of new Task Teams

Animal-Borne Instruments Task Team (ABI TT) and the suggested chair were approved.

It was stressed that the TT should not only measure physical parameters. Another comment was made that EuroGOOS member organizations should be encouraged to join the task team.

Decision: ABI Task Team was approved

Action 5: re-circulate the call for expert nominations to EuroGOOS members for ABI TT (Office, 30 January 2017)

Decision: Fixed Platforms Task Team was approved

It was stressed that:

- New Task Teams should deliver a comprehensive work plan;
- EuroGOOS should implement a mechanism to strategically align the growing number of task teams (seven in total).

Action 6: submit work plans to Executive Board (EG Task Team Chairs, October 2016)

19. Membership application

Silvo Zlebir presented a membership application from the Slovenian Environment Agency.

Decision: Slovenian Environment Agency was approved as member of EuroGOOS

20. Finances: 2015 closure and 2016 projections

Glenn Nolan presented the financial overview, the draft 2015 closure report and the 2016-2017 projections. Members approved the 2018 contributions call.

Decision: Changes in 2016 budget and the provisions for 2017 were accepted.

Decision: 2015 draft financial closure approved in principle.

Decision: The 2018 contributions call was approved.

Action 7: Circulate the final 2015 financial closure to members (Office, 30 June 2016)

Action 8: Make available the staff person months simulation to members (Office, 30 November 2016)

21. New activities

EuroGOOS Conference 2017 will be hosted by the Nansen Environmental and Remote Sensing Center, NERSC, and the Institute of Marine Research, IMR, in Bergen, Norway. Stein Sandven and Henning Wehde presented the plans for the conference organization. It was also mentioned that 2017 is the year of polar prediction and this may be reflected on the programme.

Action 9: exchange on lessons learnt from the 2014 conference; and convene an organizing meeting (Office, Exec. Board and 2017 conf. hosts – NERSC and IMR, 30 November 2016)

22. Approval of the main priorities 2016-2017 across all activities

Decision: Members approved the EuroGOOS priorities based on the 2014 Strategy, as presented earlier by Glenn Nolan.

23. Executive Board and Chair elections

The General Assembly noted the end of mandates of the following members of the Executive Directors Board with immediate effect:

- Mr. Pierre-Yves Le Traon, and
- Mr. Johnny Johannessen.

The Assembly elected new members of the Executive Directors Board for a three-year term which will complete immediately after the 2019 EuroGOOS General Assembly:

- Mr. Henning Wehde, and
- Mr. Patrick Farcy.

The Assembly re-elected the following members of the Executive Directors Board for the second three-year term which will complete immediately after the 2019 EuroGOOS General Assembly :

- Mr. Bernd Brügge, and
- Mr. Urmas Lips.

The Assembly re-elected Mr. Erik Buch as EuroGOOS Chair for the second two-year term which will complete immediately after the 2018 EuroGOOS General Assembly.

At present, the EuroGOOS Executive Directors Board is composed of the following members:

- Mr. Hans Erik Buch, Chair,
- Mr. Georgios Petychakis, Vice-Chair,
- Mr. Bernd Brügge,
- Mr. Henning Wehde,
- Mr. Patrick Farcy,
- Mr. Urmas Lips,
- Ms. Rosalia Santoleri,
- Mr. Antonio Da Costa Neves Dos Santos Martinho.

5. Overview of the main GA decisions and actions

Erik Buch presented the full list of actions and decisions from the meeting (see annex 1). He thanked the EuroGOOS members and chairs of the EuroGOOS activities for a productive meeting, and extended his thanks to the EuroGOOS office for the organization of the meeting.

Annex 1: List of Actions and Decisions as approved at the EuroGOOS General Assembly 2016

Action 1: Circulate the draft results of the AtlantOS analysis, after it has been disseminated to WP1 (Office to members, 31 October 2016)

Action 2: Send out a call for nominations for TP WG to members (Office with Rajesh Nair, 30 January 2017)

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Action 3: Submit DATAMEQ recommendations for approval by EuroGOOS Assembly (Patrick and Sylvie, by 27 May AM).

Action 4: Investigate user engagement mechanism (Office and Executive Board, 30 January 2017)

Action 5: Re-circulate the call for expert nominations to EuroGOOS members for ABI TT (Office, 30 January 2017)

Action 6: Submit work plans to Executive Board (EG Task Team Chairs, October 2016)

Action 7: Circulate the final 2015 financial closure to members (Office, 30 June 2016)

Action 8: Make available the staff person months simulation to members (Office, 30 November 2016)

Action 9: Exchange on lessons learnt from the 2014 conference; and convene an organizing meeting (Office, Exec. Board and 2017 conf. hosts – NERSC and IMR, 30 November 2016)

Decision: DATAMEQ WG recommendations from the October 2015 meeting were approved

Decision: The proposed updates of the Rules were approved

Decision: ABI Task Team was approved

Decision: Fixed Platforms Task Team was approved

Decision: Slovenian Environment Agency was approved as member of EuroGOOS

Decision: Changes in 2016 budget and the provisions for 2017 were accepted

Decision: 2015 draft financial closure approved in principle

Decision: The 2018 contributions call was approved

Decision: Members approved the EuroGOOS short to medium-term priorities based on the 2014 Strategy as presented by Glenn Nolan

Decision: Erik Buch re-elected for a second, two-year, term as EuroGOOS Chair

Decision: Urmas Lips re-elected for a second, three-year, term as member of the Executive Directors Board

Decision: Bernd Brugge re-elected for a second, three-year, term as member of the Executive Directors Board

Decision: Henning Wehde elected as member of the Executive Directors Board for a three-year term

Decision: Patrick Farcy elected as member of the Executive Directors Board for a three-year term

Annex 2: List of Member Contributions in 2017 and 2018

Member Organization	Country	Contribution in 2017 and 2018
French Research Institute for Exploitation of the Sea, Ifremer	France	12 000
Mercator Ocean	France	12 000
Centre for Environment, Fisheries and Aquaculture, Cefas	UK	12 000
Natural Environment Research Council, NERC/NOC	UK	12 000
Met Office	UK	12 000
Helmholtz-Zentrum Geesthacht Zentrum für Material und Küstenforschung GmbH, HZG	Germany	12 000
Bundesamt für Seeschifffahrt und Hydrographie, BSH	Germany	12 000
Instituto Español de Oceanografía, IEO	Spain	10 000
Puertos del Estado, Spain	Spain	10 000
Distretto Ligure delle Tecnologie Marine Scrl, DLTM	Italy	10 000
Euro-Mediterranean Centre on Climate Change, CMCC	Italy	10 000
National Institute of Geophysics and Volcanology, INGV	Italy	10 000
Consiglio Nazionale delle Ricerche, CNR	Italy	10 000
Istituto Superiore per la Protezione e la Ricerca Ambientale, ISPRA	Italy	10 000
Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, OGS	Italy	10 000
Italian National Agency for New Technologies, Energy and Sustainable Economic Development, ENEA	Italy	10 000
Institute of Marine Research, IMR	Norway	10 000
Nansen Environmental and Remote Sensing Center, NERSC	Norway	10 000
Norwegian Meteorological Institute, MET Norway	Norway	10 000
Finnish Meteorological Institute, FMI	Finland	8 500
Swedish Meteorological & Hydrological Institute, SMHI	Sweden	8 500
Danish Meteorological Institute, DMI	Denmark	8 500
Defence Centre for Operational Oceanography, FCOO	Denmark	8 500
Agency for Maritime and Coastal Services, MDK	Belgium	10 285
Royal Belgian Institute of Natural Sciences, RBINS, OD Nature	Belgium	10 285
Irish Marine Institute, IMI	Ireland	8 500
Institute for Delta Technology, Deltares	Netherlands	8 500
Royal Netherlands Meteorological Institute, KNMI	Netherlands	8 500
Rijkswaterstaat Waterdienst	Netherlands	8 500
Instituto Hidrográfico	Portugal	5 000
Portuguese Institute for the Ocean and Atmosphere, IPMA	Portugal	5 000
Hellenic Centre for Marine Research, HCMR	Greece	5 000
Institute of Meteorology and Water Management, IMGW PIB	Poland	5 000
Institute of Oceanology, Polish Academy of Sciences, IO-PAN	Poland	5 000
Maritime Institute Gdansk, MIG	Poland	5 000

Tallinn University of Technology, Marine Systems Institute, MSI	Estonia	3 500
Cyprus Oceanography Centre	Cyprus	3 500
National Institute of Biology, NIB	Slovenia	3 500
Slovenian Environment Agency	Slovenia	3 500
Croatian Meteorological and Hydrological Service, DHMZ	Croatia	3 500
Croatian Institute of Oceanography and Fisheries, IZOR	Croatia	3 500

Annex 3: DATAMEQ WG recommendations from their meeting in October 2015

On service to Users , the group recommends:

- continue extending the regional portals with the parameters and platforms necessary for the ROOSes activities.
- update aggregated historical in situ datasets, important for reanalysis activities carried out within EUROGOOS . In particular the group recommends NRT data providers together with SeaDataNET NODC's to set up periodic, namely yearly, aggregated data set providing the "best copy" (validation and removing duplicates) with upgraded metadata for core set of parameters (T&S , biogeochemical, currents).

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On Interoperability between real-time and delayed mode data streams the group recommends:

- use the same standards and code lists at European level based on SeaDataNet standards whenever exists
- Unique Platform code that should be delivered by a European institution and would be used both in ROOS portals and NODCs . Could be managed by JCOMMOPS in link with EMODNet. Recommendation: ROOSes contribute to maintenance and development of the 'platform directory' (C17)
- Use Provider codes (EDMO) to reference the institution of the provider. Can be managed by SeaDataNet but should be able to include monitoring institution in addition to the research institutes
- No data should be distributed without X&Y&Z&T
- a common level of platform description and sensor description using a hierarchical description of SensorML. The group suggest that this activity is carried on jointly by the EuroGOOS Task Teams together with SensorML experts
- carry on standardized information to inform users on Quality Control Level applied on the data (Automatic RTQC, Scientifically Assessed,...)

Enhance discovery the group recommends to develop:

- an ISO19139 Schema based on the Ifremer/Sextant tool already used in CMEMS and SeaDataNet catalogues to Harmonize metadata information to describe Catalogue of products /datasets /collection
- a Catalogue of platforms (including relation to SeaDataNet C17 platform codes) , that would be operated at EU level .
- guidelines for implementation of Data Citation (DOI) based on international work (link RDA ODIP2)

To improve interaction with Data providers the group recommends

- Improve traceability of the use of data :
- Visibility of the providers on the integrators
- Feedback to providers of the use of data through integrators
- Improve QC on data by efficient reporting to provider when an anomaly is detected
- Update guidelines to institutes through a handbook who want to exchange the observation they manage to connect to SeaDataNet network and/or CMEMS/EuroGOOS portals
- Involve more the potential providers by
 - o organizing regional meetings
 - o supporting organised data sharing for new type of platform through EuroGOOS Task Team
- Support to data centres (ROOS , NODC) to populate RT and Historical catalogues => Developing innovative ways for ingesting near real time data sets from operational stations required (for streamlining and optimizing workflows).
- Set up an efficient update process with providers using Cloud type IT services

Enhance Data quality the group recommends

- Update the DataMEQ RTQC procedures for
 - o T&S, Current and Sea-Level especially for coastal data
 - o Wave
 - o Current from HF Radars
 - o O2 Chl a Nitrate Carbon

- Provide error-bar and accuracy of the measurement together with the data whenever known. This action should be managed at Network level within the EuroGOOS task teams

Such recommendations will progress in close relation with major projects or organisations in Europe such as the ones listed hereafter:

- CMEMS INSTAC for real-time data stream
- SeaDataNet and CMEMS INSTAC for building historical products for reanalysis purposes
- SeaDataNet for standard improvements
- AtlantOS for trans-network in Atlantic : similar activities planned in Med and may be Arctic in 2015 BG12 call
- JERICO-Next for coastal network expertise
- EMODNet-Physics for interoperability with the EMODNet portal and contribution to unlocking access to private data
- ENVRI Plus, ODIP2, EUDAT : for Interoperability , Standardization and International collaboration
- EuroGOOS : to Enhance link with in situ observing system operators and downstream users
- JCOMMOPS : to Enhance link with in situ observing system operators and networks at International level

Annex 4: Meeting Agenda

Special Open Session:

Oceanographic products, Research Infrastructures, European Ocean Observing System

Wednesday 25 May, 12:30-18:00 (lunch from 12:00)

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12:00-12:30 Lunch at the meeting venue

12:30-12:35 **1. Opening**
Erik Buch, Chair, EuroGOOS

12:35-12:55 **2. EuroGOOS overview**
Glenn Nolan, Secretary General, EuroGOOS + Q&A

12:55-15:40 **3. Oceanographic products under development in Europe**

12:55-14:00 **MSFD Products**
HELCOM, Urmas Lips
EC DG ENV, Shane O'Boyle
Q&A, Discussion

14:00-14:40 **Ecosystems and Fisheries Products + Q&A**
ICES WGOOFE, Rodney Forster, University of Hull, UK
Oceanographic products for fisheries, Richard Nash, IMR, Norway

14:40-15:00 **Coastal Safety Products: Storm surge systems**, Enrique Alvarez Fanjul, Puertos del Estado, Spain + Q&A

15:00-15:20 **Marine services for Industry: Case studies from the energy sector**, Caroline Acton, MetOffice, UK + Q&A

15:20-15:40 **EuroGOOS products activities**
Setting the scene by Erik Buch
Discussion

15:40-16:10 Coffee break and photo shoot in the inner yard

16:10-17:00 **Case studies on research infrastructure cooperation**

16:10-16:25 **Networked vehicle systems for persistent Atlantic observation**, João Tasso de Figueiredo Borges de Sousa, LSTS, Porto University, Portugal

16:25-16:40 **European Research Vessel Operators**, ERVO, Andre Cattrijsse, VLIZ, Belgium
16:40-17:00 Q&A, Discussion

17:00-17.50 **4. EOOS Progress and next steps**

State of play by Glenn Nolan
Discussion

17:50-18:00 **5. Overview of main discussion points and closing remarks**
Erik Buch, Chair, EuroGOOS

19:00-19:30 Kostas Nittis Medal to Young Researcher Award Ceremony &
19:30-21:30 Official dinner (Notos, Rue de Livourne 154, 4 min walk)



Open Session

EuroGOOS activities: successes, bottle necks, 2016-2017 work plans

Thursday 26 May, 09:00-18:00

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- 09:00-09:30** **6. Annual reports**
Chair's report by Erik Buch
Office report by Glenn Nolan
- 09:30-09:40** **7. EuroGOOS Strategy and 2016-2017 priority areas**
Glenn Nolan
- 09:40-09:55** **8. Communication updates**
Dina Eparkhina
- 09:55-10:55** **9. Reports from ROOSes**
- BOOS success stories, short-term priorities, work plan 2016-2017**
 Urmas Lips, BOOS Chair
- NOOS success stories, short-term priorities, work plan 2016-2017**
 Henning Wehde, NOOS Chair
- MONGOOS success stories, short-term priorities, work plan 2016-2017**
 Enrique Alvarez Fanjul, MONGOOS Co-Chair
- 10:55-11:20** **Coffee break**
- IBI-ROOS success stories, short-term priorities, work plan 2016-2017**
 Manuel Ruiz Villareal, IBI-ROOS Co-Chair
- Arctic ROOS success stories, short-term priorities, work plan 2016-2017**
 Stein Sandven, Arctic ROOS Chair
- 12:00-12:10** **10. Discussion on EuroGOOS membership expansion to include all ROOS members and communication aspects**
Erik Buch
- 12:10-13:10** **11. Reports from Working Groups (10min updates + 10 min discussion)**
- Science Advisory Working Group**
 Main achievements and 2016-2017 plan by Jun She, SAWG chair
 Q&A, discussion
- Technology Plan Working Group**
 Main achievements and 2016-2017 plan by Rajesh Nair, TPWG chair
 Q&A, discussion
- Data Management, Exchange and Quality Working Group**
 Main achievements and 2016-2017 plan by Patrick Gorringer, WG facilitator
 Q&A, discussion

13:10 – 14:00 Lunch

Coastal Ocean and Shelf Seas Modelling Working Group

Main achievements and 2016-2017 plan by John Siddorn, COSMO WG member
Q&A, Discussion

Promotion of EuroGOOS member products

Introduction by Erik Buch
Open discussion

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14.40-17:30 12. Report from EuroGOOS task Teams (10 min updates + 10 min discussion)

Tide Gauge Task Team

Successes and plans by Begoña Pérez, TG TT Chair
Q&A, Discussion

FerryBox Task Team

Successes and plans by Franciscus Colijn, FB TT Chair
Q&A, Discussion

Gliders Task Team

Successes and plans by Dan Hayes (by Skype), Gliders TT member
Q&A, Discussion

15:40 – 16:10 Coffee break

HF Radar Task Team

Successes and plans by Julien Mader, HFR TT Chair
Q&A, Discussion

Euro-Argo ERIC

Successes and plans by Pierre-Yves Le Traon, Chair of Euro-Argo Council

New Task Team on Tagged Mammals

Objectives and membership by Lars Boehme, proposed Chair

New Task Team on Fixed Platforms

Objectives and membership by Richard Lampitt, proposed Chair
Q&A, Discussion

17.30-17.50 13. Status on EuroGOOS project involvement

Glenn Nolan

17:50-18.00 14. Overview of main discussion points and closing remarks

Erik Buch

19:00 Belgian beers tasting (L'auBIERegiste, Rue de l'Aqueduc 63, 9 min walk)

Formal Session

EuroGOOS governance, finances and approval of new activities

Friday 27 May, 09:00-12:10 (followed by lunch)

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|--------------------|---|
| 09:00-09:05 | 15. Opening and adoption of agenda
Erik Buch |
| 09:05-09:20 | 16. Status of the actions from the last General Assembly
Erik Buch |
| 09:20-09:30 | 17. Approval of the EuroGOOS Rules revisions
Erik Buch |
| 09:30-09:40 | 18. Approval of new Task Teams |
| 09:40-10:00 | 19. Membership application
Presentation of Slovenian Environment Agency by Silvo Zlebir
Q&A and decision on membership |
| 10:00-10:20 | 20. Finances: 2015 closure and 2016 projections
Financial overview
2015 closure (for approval)
2016-2017 projections
2018-2019 contributions call (for approval) |
| 10:20-10:50 | Coffee break |
| 10:50-11:00 | 21. New activities
EuroGOOS Conference 2017 |
| 11:00-11:20 | 22. Approval of the main priorities 2016-2017 across all activities |
| 11:20-11:40 | 23. Executive Board and Chair elections
Chair's statement
Executive Board candidates' statements
Voting & announcement of results |
| 11:40-12:00 | 24. AOB |
| 12:00-12:10 | 25. Overview of the main GA decisions and actions |
| 12:10 | End of meeting |
| 12:10 | Lunch |

Annex 5: Meeting Participants

EuroGOOS Member Organization Delegates and Alternates

Name	Organization	Country	Email
Erik Buch	EuroGOOS Chair		erik.buch@eurogoos.eu
Guido Dumon	Agency for Maritime and Coastal Services, MDK	Belgium	guido.dumon@mow.vlaanderen.be
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EuroGOOS Chairs or Alternates

Chairs who are delegates - above

Name	Organization	Country	Email
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Invited Speakers

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Report revised by EuroGOOS members; signed on 25 January 2017 by:

Dr. Hans Erik Buch

Dr. George Petihakis




EuroGOOS AISBL Chair

EuroGOOS AISBL Vice-Chair