



The Global Ocean Observing System

STEERING COMMITTEE

GOOS Steering Committee Eighth Meeting

Wednesday-Friday 1-3 May 2019

GEOMAR West shore campus, Düsternbrooker Weg 20, Kiel, Germany

Documents linked from this agenda, or available for download on meeting website:

goosocean.org/goos-sc-8 »

Agenda

Version 6 (28 April 2019)

Meeting objectives:

- Identify near-term plans to improve implementation by Strategic Objective across GOOS structures and with partners, in particular:
 - Strengthen partnerships for delivery
 - Advocacy and communication
 - Implement and promote best practice
 - Open data
 - Guide capacity development
 - Champion effective governance
- Work on the integration of the legacy of GOOS projects, including on evaluation and observing system design
- Provide feedback to GOOS panels, the OCG and GRAs
- Identify resource implications, priorities, and opportunities
- Plan for renewal of SC membership



Overview timetable

	<i>Wed 1 May</i> Strategy & evolution	<i>Thu 2 May</i> Implementation & opportunities	<i>Fri 3 May</i> Implementation planning
<i>morning</i> <i>10:00-10:30</i> <i>coffee break</i>	9:00 start 1. Opening 2. Strategy review 3. Implementation planning (IP): introduction 4. Sponsor views 5. Disbandment of JCOMM and implications for GOOS 6. Partnerships for delivery	(8:30 start) 9. GOOS panels, OCG, and GRA reporting and advice	8:30 start 11. IP focus (cont'd): • open data • best practice • partnerships • advocacy/ comms
<i>12:30-13:30</i> <i>lunch</i>		<i>12:08 Ferry to East shore campus</i>	
<i>afternoon</i> <i>15:30-16:00</i> <i>coffee break</i> <i>17:30 end</i>	8. Ocean observing governance and OceanObs'19 7. Projects legacy	Public lectures on the Decade of Ocean Science for SD and GOOS 10. GEOMAR perspectives: AtlantOS and the OSCM <i>16:54 return ferry</i> 11. IP focus: Guide CD	12. IP focus: overall resourcing 13. SC renewal 14. Review of past actions 15. Review of actions (end of meeting at 16:00)
<i>evening</i> (optional, self-funded)	<i>before-dinner drinks</i>	<i>social dinner</i>	

Wednesday 1 May 2019**Day 1: Strategy and evolution**

9:00

1. Opening

The 8th meeting of the GOOS Steering Committee (SC) will open at 9 am on Wednesday, 1 May 2019. Please note this is a holiday in Germany and so public transport will be on a reduced schedule.

2. Strategy review

(John Gunn, 30 min: 10 min presentation, 20 min discussion)

- Document: [Global Ocean Observing System 2030 Strategy](#) including IOC and WMO annexes
- Document: [launch plan](#)

Reminder of the broad vision, specific mission, and Strategic Objectives; and discussion of the launch plan for the Strategy.

3. Implementation plan: introduction

(Emma Heslop, 30 min: 15 min presentation, 15 min discussion)

- Document: [Draft GOOS Implementation Plan](#)

The GOOS Implementation Plan, aligned with the ambitious Global Ocean Observing System 2030 Strategy, focuses on near-term plans of the structures within the GOOS program. It will be an evolving document, and we aim to finalize a first detailed draft by OceanObs'19 in September. A high-level version, with overall resourcing, will be submitted for approval to the IOC Assembly. This quick introductory session will set the stage for more detailed discussions on implementation of specific objectives under item 10.

4. Sponsor views

(60 min total: 30 minutes of presentation, 30 minutes of individual questions/collective discussion)

How GOOS sponsors view the Strategy and its Implementation Plan, how they see their role in advocating and in supporting implementation, and how can GOOS support the objectives and engage in the work of each of its formal sponsors, creating a working partnership. From the GOOS perspective, do the sponsor views modify priorities in objectives and implementation.

- 4.1 **IOC/UNESCO** - including links to the Decade of Ocean Science for Sustainable Development - *Vladimir Ryabinin (Executive Secretary, IOC/UNESCO, 10 min presentation)*
- 4.2 **WMO** - including the new WMO structure, the Earth System approach to observing in WIGOS, and ocean observations for weather and climate services - *tbc (10 min presentation)*
- 4.3 **UN Environment** - *Hartwig Kremer, focal point, unable to attend*
- 4.4 **International Science Council** - *Martin Visbeck (GEOMAR, member of ISC Governing Board, 10 min presentation)*
 - Reference documents: [IOC-XXX \(June 2019\) GOOS draft decision](#); [WMO Cg-18 \(June 2019\) draft resolutions of relevance to GOOS and TPOS 2020](#)

5. Disbandment of JCOMM and implications for GOOS

(Albert Fischer, 30 min: 10 min presentation, 20 min of discussion)

The WMO and IOC foresee the disbanding of JCOMM after a transition period in 2020, with GOOS taking on sponsorship of the Observations Coordination Group and its observing networks (elevated from its previous level of reporting), and the work of the Expert Team on Operational Ocean Forecast Systems. Functional connections to WMO structures and processes regarding the definition of observing requirements, negotiation of observing system design in response to those requirements, flow into real-time data systems and

forecast systems, and feedback from operational providers of weather, marine and climate services, as well as climate research, will need to be created. This development will need to be created in a spirit of mutually beneficial partnership. The SC will discuss the opportunities and challenges created by the coming changes.

- *Reference Documents:*
[Report of the co-chairs of the Joint WMO-IOC Consultation Group on the Future of JCOMM](#), and
[Draft Resolution creating a new Joint WMO-IOC Collaborative Board](#)

6. Partnerships for delivery (GOOS Strategic Objective 1)

(Toste Tanhua, 30 min:10 min presentation, 20 min of discussion)

GOOS is developing a partnership approach in order to deliver on its first Strategic Objective: Strengthen partnerships to improve delivery of forecasts, services, and scientific assessments. We will outline the partnership approach, and give some specific examples where the process has started:

- Global Climate Observing System
- OceanPredict (GODAE OceanView)
- WMO

12:30-13:30 Lunch

8. Ocean observing governance

(order of items 7 and 8 reversed, to accommodate availability)

(2 hrs: 20 minutes presentation by Toste Tanhua, Jessica Snowden and Robin Mahon, 1:40 structured discussion)

- *Document:* [Background document for the governance workshop](#)

Trying to implement the Framework for Ocean Observing in the last 7 years, and the preparation to engage with the legacy and outcomes of regional/basin-scale projects like AtlantOS and TPOS 2020 raise a number of issues.

The new Global Ocean Observing System 2030 Strategy demands a step change in the level and effectiveness of partnerships across the scientific and end-user communities. It will also need a deep commitment to building human capacity and a more multi-disciplinary observing system capability.

Strategic Objective 11 is to champion effective governance of the ocean observing system. Activity in global, basin-scale, and regional coordination, and the link to national ocean observing systems where funding is sourced, remains a '*bricolage*' that has evolved over time. A centralized hierarchical system to govern ocean observing is essentially unthinkable, and governance theory suggests another architecture of polycentric decision-making can have its advantages.

GOOS is helping to prepare for a broad discussion and future action to improve ocean observing system governance, with a few milestones: a 30 April workshop with partners, a consultation at the GOOS Regional Forum (5-7 August), a direct consultation with its sponsors planned for August, and a community consultation in a session at the OceanObs'19 conference. This session will allow the SC to review and add to the outcomes of the governance workshop, and input into the planned process of discussion with community and funders of the observing system.

- *Reference document:* [Tanhua et al. Community White Paper](#)

7. Projects legacy

(Katy Hill, 90 minutes: 15 minutes framing presentation, 10 minutes each for Martin Visbeck/Brad deYoung-AtlantOS, Neville Smith-TPOS 2020, Andrea McCurdy-DOOS, 50 min discussion)

- Document: [How to capture the legacy of GOOS projects?](#)
- Document: [Should GOOS oversee a framework for ongoing evaluation of the observing system?](#)

The AtlantOS project funded by the European Commission will formally end in late 2019, with a vision to launch an All-Atlantic Ocean Observing System (AtlantOS) as a program. TPOS 2020 has published a second report focused on a proposed future design of the Tropical Pacific Observing System, and will turn in its final year to considering the future long-term system organization needed. The Deep Ocean Observing Strategy (DOOS) continues its activity.

The projects will present on their view of they will evolve sustained structures and integrate into GOOS as a whole (10 minutes each for AtlantOS, TPOS 2020, DOOS)

The SC will consider how aspects of definition of requirements, observing system design, regional organization of observing systems, and connection to delivery partners, should be coordinated between projects and the ongoing (and new) structures of GOOS.

- Reference documents: [AtlantOS Vision document](#), [TPOS 2020 Second Report \(draft\)](#)

Thursday 2 May 2019

8:30 start

Day 2: Implementation and opportunities

9. GOOS panels, OCG, and GRA reporting and advice (3 hours)

- Documents or presentations from each group will be available on the [meeting website](#)

The GOOS Panels, the Observations Coordination Group, and the GOOS Regional Alliances each have a detailed work plan and objectives. They will report briefly on their activities and accomplishments of the past year, with a look to the future, including resourcing opportunities and challenges. The SC will be asked to provide feedback, and use this as background for the discussion of GOOS implementation by Strategic Objective.

9.1 Ocean Observing Panel for Physics and Climate (OOPC) - Bernadette Sloyan and Katy Hill (15 min presentation, 15 min feedback)

Document: Report from the Physics and Climate panel

9.2 GOOS Biogeochemistry Panel / IOCCP - Kim Currie, Masao Ishii, Artur Palacz (15 min presentation, 15 min feedback)

Document: [Report from the Biogeochemistry Panel](#)

9.3 GOOS Biology and Ecosystems Panel - Nic Bax, Daniel Dunn, and Patricia Miloslavich (15 min presentation, 15 min feedback)

Document: [Report from the Biology and Ecosystems Panel](#)

9.4 Observations Coordination Group - Emma Heslop (15 min presentation, 15 min feedback)

9.5 GOOS Regional Alliances - Glenn Nolan (15 min presentation, 15 min feedback)

12:08 Ferry to the East Shore

12:30-13:30 Lunch at *Alte Mühle*

14:00 *Wissenschaften* ("Creating knowledge") public lecture by Vladimir Ryabinin on the UN Decade of Ocean Science for Sustainable Development 2021-2030 and Toste Tanhua on GOOS

10. GEOMAR perspectives

(14:45, 45 min)

Presentations for the SC on GEOMAR, AtlantOS, and the Ocean Science Center Mindelo (Cabo Verde).

15:30-16:00 Coffee break

16:00-16:45 Tour of the GEOMAR East campus facilities

16:54 Return Ferry

11. Implementation Planning: by Strategic Objective

11.1 Guiding Capacity Development

(Glenn Nolan, Venkatesan, Patricia Miloslavich: 60 minutes)

At the SC-7, a Capacity Development Task Team was asked to renew and review terms of reference moving forward that reflect cross-GOOS activities, including:

- The CD paper ([add link])
- connection, cross IOC, IODE
- work with industry as funders/supporters

The perspectives of the regionally-appointed members of the Steering committee will be sought.

Friday 3 May 2019

Day 3: Implementation and planning

11. Implementation Planning: by Strategic Objective (cont'd)

11.2 Open data

(40 minutes: 5 flash presentations from IODE, WIS, OCG, OBIS...)

Strategic Objective 7 is to ensure GOOS ocean observing data and information are findable, accessible, interoperable, and reusable, with appropriate quality and latency. This will be an area in which GOOS will need to use partnerships to advance. Short flash presentations will address how we can better connect GOOS observing networks to data users.

11.3 Best practice

(Emma Heslop, 30 minutes)

- *Documents:* [Ocean Best Practice System project proposal](#)

The SC will consider and approve the Ocean Best Practice System as an IODE-GOOS project.

- *Reference document:* IODE resolution

11.4 Partnerships for delivery: focus on ocean health

(Nic Bax, 40 minutes)

- *Document:* Partnerships for delivery in the ocean health theme of GOOS

Returning to item 6, we will take stock of our partnership process generally, but spend time looking at the approach to develop partnerships for delivery in ocean health.

11.5 Advocacy and communications

(40 minutes)

Strategic Objective 2 is to build advocacy and visibility with stakeholders through communicating with key users and national funders. The SC will focus on the interaction of global efforts with the GRAs and GOOS National Focal Points, those leading national observing efforts, and their key expectations out of the communication and interaction with GOOS.

12. Implementation Planning: overall resourcing

(Albert Fischer, 30 min)

The SC will discuss and approve the overall resourcing message in the Implementation Plan (see document in item 3) provided to the IOC Assembly, and identify opportunities and actions for improving the funding situation for GOOS activities.

13. Steering Committee renewal

(John Gunn, 30 min)

- *Document:* [“Designing” the GOOS Steering Committee we need to deliver the Global Ocean Observing System 2030 Strategy](#)

In light of discussions about the development of partnerships, implementing the ambitious strategy, and governance of ocean observations, the SC will discuss and approve a process to renew its membership and several vacant positions.

14. Review of past actions of the Steering Committee

(Albert Fischer, 30 min)

Review of those actions not completed, should be maintained for the next period within the GOOS Strategy and Implementation Plan, what is required to complete.

15. Review of decisions, recommendations, and actions

(60 min)