The Global Ocean Observing System

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Intergovernmental Oceanographic Commission

WORLD METEOROLOGICAL ORGANIZATION

UN environment
United Nations Environment Programme

International Science Council

OceanOPS 3

OCG-15 Session, 13-17 May, 2024

ONC, Victoria, British Columbia, Canada

Opening Thoughts

OceanOPS has demonstrated value, crystallized much of the GOOS observing system, and enabled efficient management of expensive ocean observing activities.

This morning we will begin to identify some of the issues/questions about a future OceanOPS and steps necessary to appropriately support its future functions.

OceanOPS services

What are the most unique and valuable services that OceanOPS provides to the networks?

- Argo notification scheme - fundamental, legal requirement, IOC resolution
- Argo - Collecting metadata, monitoring the health of the array, assess gaps, age, and management of the array ($ cost efficiency, value for mon network)
- DBCP - Integrated dashboard - platform status, visualise the network, know what to do (network management?)
- Aggregation of metadata - reduction of work (DBCP) ($ save cost at each network level - efficiency for the 'system')
- SOT - unique ID - critical for function , fundamental to operation
- SOT - metadata,
- SOT - Documentation (centralized place for documentation), historical knowledge ($ system memory, save reinventing the wheel, explain what th
- SOT - Enabling countries to utilize the system and use existing platforms/processes to contribute e.g., metadata
- Gliders - Visibility through the dashboard, contributing to a global program ($ people deploying the vehicules, people doing the work, funders rea global system, safety of investment?)
- GLOSS - no direct services, when providing reporting e.g., network status reports (centralized reporting what 'GOOS' want to know), currently wo metadata which could lead to increased needs/benefits
- AniBOS - not as well engaged yet, visualization and accessibility to real time observations is a big benefit and facilitates guidance of operations i are reliant on other programs and activities ($ visibility to other programs of the validity of the AniBOS work - validation of the network to others)
- FVON - Provide critical guidance and lessons learned ($ advice, knowledge sharing, strategic/practical advice),
- FVON - knowledge and visibility of the data that is provided and accessible in different regions ($ validation of need for observations, due to cove
- UK Argo - Critical for deployment planning (reduce duplication);
- UK Argo - Statistics and mapping provided yo funders ($ justification of investment, visibility of funder UK?)
- GO-SHIP - technical coordinators are the point person for adding additional data points to the network ($ focal point for organisation)
- GO-SHIP - unique ID, fundamental ($ operational service)
- GO-SHIP - maps and visualization,
- GO-SHIP -data use and statistics?
- GO-SHIP - reporting on status of the networks (centralized point), cruise tracking,
- GO-SHIP - coordination of meetings ($ direct network organisation support)
- Argo - satisfying reporting to IOC and WMO

OceanOPS priority services 2

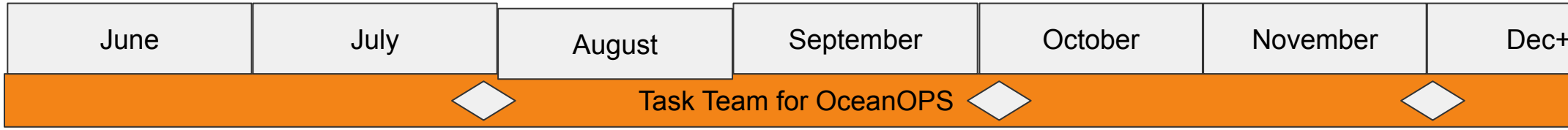
Are there services that you would like to see OceanOPS provide - networks and GOOS?

Would you be willing to pay for them?

Services you would like to see?

- EOV view - Integrated Struggle to report on network contributions on EOVs - tracking tool to enable this capability
- Information services - projections of characterisation of e.g., MHW that impact Suite of information services. Integrate with GRAs who might do this - scale up from GRAs to global, think there are funds out there for that, Start with test cases (low hanging fruit). Think this is fundable - would help funding of other things. Others think this is going into the data product space - consider carefully. However this is a what people might pay for, understood that this is a change - OceanOPS 2.0. GOOS needs some services - Copernicus does not do what is required, whether OceanOPS does it, GOOS needs it.
- Improve our communication on OceanOPS - to enhance understanding of OceanOPS and its work (help fundraise) , both OceanOPS and the networks highlight what they do
- Rebuild Win software, collaboration between countries, broker this, central point for this
- Better coordination with network reps - help make connections bottom up and top down, connection from the IOC and WMO requirements, help/aid the networks in making these connections
- Coordinate OONJ observations, might make it easier - ease regional collaboration in this space

Notional Timeline



Define core services	**Complete services survey, OceanOPS synthesize**	**Identify network specific (SLA).**	**Develop conceptual approach to distribution of services (OceanOPS, others).**
Assess and define Oceanops	**Assess desired core services**	Assess OceanOPS ability to meet core and SLA needs.	Assess OceanOPS ability to meet service needs (needed costs for 2025, 2026, 2027)
Define/refine value proposition and messages	**Collect input**	**Refine value proposition and messages**	
Marketing plan			**Develop articles, materials etc as required IOC Assembly in 2025**

◇ Roundtables

OP’24 symposium: Call for abstracts now OPEN

Please help us to circulate this reminder announcement to your community

OCG Executive Members

David Legler (Chair) [Expressions of interest to be solicited through IOC circular letter, selection approved by GOOS Steering Committee]

Jon Turton (Vice-Chair WMO and Technology)

Juliet Hermes (Vice-Chair Standards and Best Practices) [to be filled - GOOS email, decided by Exec]

Kevin O'Brien (Vice-Chair Data Management)

Champika Gallage (WMO Representative)

Zulfikar Begg (ocean observing developing country and ECOP) - to be refreshed in autumn

Emma Heslop (GOOS Representative)

Mathieu Belbeoch (OceanOPS Manager)

Ann-Christine Zinkann (NOAA support to GOOS, ECOP)

YU Ting (China support to GOOS) [new secondment from China to be identified]

– OTHER AREAS: Environmental Stewardship [Network level], more coordination activity, communicate with networks on e.g., exemplar work, higher level conversations around observing system items, representation of ECOP to the exec, emerging network vice chair,

See OCG ToRs here

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YU Ting (China support to GOOS)

Mature Networks

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Susan Wijffels
Brian King

OceanSITES
Raquel Somavilla
Johannes Karstensen

GLOSS
Gary Mitchum
Bernardo Aliaga

AniBOS
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Emerging Networks

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SOCONET
Maciej Telszweski

Under Consideration Networks

USVs
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