



United Nations
Educational, Scientific and
Cultural Organization



Intergovernmental
Oceanographic
Commission



2021 United Nations Decade
2030 of Ocean Science
for Sustainable Development



WESTERN TROPICAL ATLANTIC REGION

REGIÓN ATLÁNTICO TROPICAL OCCIDENTAL

RÉGION ATLANTIQUE TROPICALE OCCIDENTALE

PANEL ON INFORMATION AND DATA EXCHANGE

VICTOR TURPIN - OCEANOPS

One Planet, One Ocean / Un Planeta, Un Océano / Une planète, un océan

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**OCEANOPS. OCEAN OBSERVATIONS INTEGRATED
METADATA AND MONITORING TOOLS**

VICTOR TURPIN – OCEANOPS TECHNICAL COORDINATOR

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OCEANOPS. WHO WE ARE AND WHAT WE DO

OceanOPS is the joint WMO-IOC/UNESCO support centre for oceanography and marine meteorology

It operates in Brest/France/EU, worldwide ocean metropolis (within Ifremer)

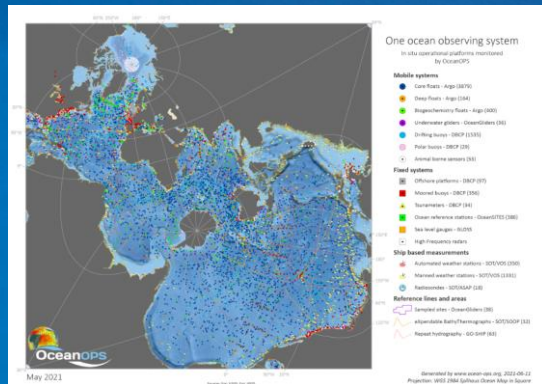
OceanOPS monitors, coordinate, integrate the sustained elements of the Global Ocean Observing System: i.e. about 10 000 operational in-situ platforms:

- fixed, mobile (surface/subsurface), and ship based
- within the GOOS Observation Coordination Group
- within the IOC OOS section
- within the WMO Infrastructure Department and Earth Monitoring Division
- within the Observing Networks

See www.ocean-ops.org/strategy

See www.ocean-ops.org/reportcard

See www.ocean-ops.org/bulletin



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OCEANOPS - CAPABILITIES

MISSION

To monitor and report on the status of the global ocean observing system and networks, to use its central role to support efficient observing system operations, to ensure the transmission and timely exchange of high quality metadata, and to assist free and unrestricted data delivery to users across, operational services, climate and ocean health.

GOALS

Five high level goals are identified for OceanOPS to achieve its vision over the next 5 years (2021-2025). These goals focus on the core functions of OceanOPS, address the evolving needs of the ocean and marine meteorological observing communities, and identify the internal evolution needed to achieve this vision.

Goal 1

Monitoring for the improvement of global ocean observing system performance

OceanOPS monitors the status of the ocean observing networks, as well as the status of the global ocean observing system as a whole. It achieves this through development of tools and metrics that utilize metadata. By analyzing trends and reporting back to stakeholders, it encourages performance improvement and cost efficiency.

Goal 5

Shape OceanOPS Infrastructure for the future

OceanOPS has developed organically for the last 20 years. It is now at a point where strategic restructuring of its resources and operations can address many concurring issues identified, and position it to be a highly valued community asset for the next 20+ years.

Goal 4

Enable new data streams & networks

One of the central drivers of OceanOPS is to support the global ocean observing networks in ensuring usable and accessible data, which includes enabling new data to be utilized by users.

Goal 2

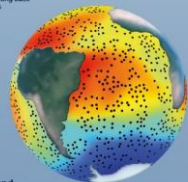
Lead metadata standardization and integration across the global ocean observing networks

A core OceanOPS activity is to create harmonized metadata for each observing network, individually and across the ocean observing system collectively, which vastly increases data usability. It also enables OceanOPS to provide global monitoring capacity.

Goal 3

Support and enhance the operations of the global ocean observing system

The in situ global ocean observing system has a diverse set of operational needs that OceanOPS is positioned to support and enhance through its monitoring tools and community knowledge.



GOALS



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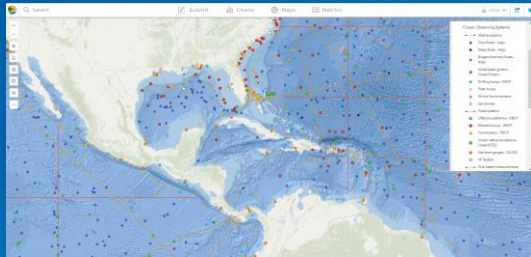
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OCEANOPS – INTEGRATED METADATA AND MONITORING TOOL

- OceanOPS online metadata dashboard (www.ocean-ops.org)
 - to collect metadata from operators and PI implementing the GOOS,
 - to integrate and harmonized metadata across networks,
 - to analyse and report in about the status of the GOOS in the past, present and future,
 - to communicate about the GOOS,
 - to provide information and warnings (EEZ, platform status, data management),
 - ...



- OceanOPS online metadata dashboard capabilities
 - Metadata upload,
 - Wizard registration,
 - Sample selection,
 - Dynamic statistics,
 - Maps,
 - Key Performance Indicators...

OCEANOPS - CAPABILITIES

- OceanOPS is not just a metadata dashboard ...
 - OceanOPS acts at the heart of observing networks (international technical coordination)
 - Assist on all issues arising between implementers, data managers, scientists, program managers, manufacturers, Member States, etc – mediation – impartial for system efficiency (vs national priorities)
 - Monitor what is operating in the ocean (from planning to end of operations) through first hand information
 - Guides towards harmonization, GOOS Obs. Coor. Group, IOC/WMO standards
 - Provides key information for decision making, implementation strategies, promotion, international cooperation, etc.
 - Optimizes resources and cost efficiency
- 20 years expertise
- Important piece of the core GOOS infrastructure
 - ~8 staff: 1 lead, 3 program experts (fixed/mobile/ships), 1 science & communication officer, 3 IT staff (backend, frontend, metadata)
 - Operational capacity (low cost cruise chartering, misc opportunities – see upcoming Atlantic)

OCEANOPS AND IOCARAIBE

OceanOPS provide support to IOCARAIBE to

- register existing Observing System into OceanOPS information system

- benefiting from OceanOPS operation capacity (low cost cruise chartering, misc opportunities – upcoming Atlantic Charter)

IOCARAIBE could support global network implementation plan by

- facilitating EEZ access from costal countries to GOOS element

- communicate and promote OceanOPS services for monitoring and implementation

Build regional support, services and dedicated contact point



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MUCHAS GRACIAS

.....
THANK YOU
.....

MERCI BEAUCOUP

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