An Ocean of Opportunity

September 16-20, 2019
Honolulu Convention Center

www.oceanobs19.net
OceanObs’19 Overview

Honolulu Convention Center
16-20 September 2019
594 Days to go....

Anchor Sponsor: NASA
Co-Sponsors: WMO, IOC, ICSU, GEO, GCOS, NSF, NOAA, ESA, MERCATOR, SOA, IMOS and growing!
An Ocean of Opportunity
GOALS
Establish the internationally coordinated system for physical climate and ocean carbon observations.

*drifter, xbt, tide gauge... floats*
History of OceanObs Series

GOALS
Expanded the range of communities working together to undertake more comprehensive and sustained ocean observations.

*FOO, EOVs, Obs. Network*
GOALS

• Develop effective strategies for a further sustained, multidisciplinary, integrated Ocean observing system.
• Strengthen observer – users connection
History of OceanObs Series

**OO’99**
- 300+ participants
- 43 whitepapers

**OO’09**
- 640 participants
- 97 whitepapers

**OO’19**
- 1000? participants
- ? whitepapers
Momentum for Ocean Science: People are Conscious

BBC Blue Planet II 1st Episode watched by 14.1 million people in a week

Google hits on “News” of….

<table>
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<tr>
<th>Year Range</th>
<th>“Healthy Ocean”</th>
<th>“Plastic Pollution” + Ocean</th>
<th>“Blue Economy”</th>
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<td>2016-2019</td>
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© BBC Lisa Labinjoh / Joe Platko 2017
Conference Themes (Preliminary)

Themes on Societal Benefit

- Climate Variability & Change
- Ecosystem Health & Biodiversity
- Hazards & Maritime Safety
- Pollution & Human Health
- Water, Food & Energy Security
- Blue Economy
- Discovery

Observing, System Governance, Data & Information Technologies
Conference Themes & Expertise Wanted

Science Communication
Biogeochemistry
Conservation
Fisheries
Marine Energy
Marine Policy
Coastal Management
Economy
Citizen Science
Data Assimilation
Sensor Development

Air-sea Interaction
Climate Projection
Physical Oceanography
Rescue Hazard Management
Weather
Marine forecasts
Pollution
Geography
Human Health
Maritime Operations
in-situ Observation
Satellite Observation

* the placement of expertise is random.

And more…!
A decadal vision for the sustained, integrated, and multidisciplinary ocean observing system

**REQUIREMENTS**
- Strengthen User engagement
- Develop Observation design principles
- Enhance Observing system coordination and management
- Improve Data and information discoverability and delivery
- Develop User-driven innovative products and information services
- Link with SDGs
- Integrate ocean science stakeholder community

Effective governance structure that combines observers and end users perspectives

Sponsor and engage contributions from developing countries
Building on the Framework for Ocean Observing

To identify accomplishments and gaps

**SOCIETY**
Framework for Ocean Observing Process Diagram

- Requirements Setting
- What to Measure
- Essential Ocean Variables

**GOOS EOVs**

**DATA**

- Issues Impact
- Data Products Creation
- Data Assembly

**OBSERVATION**

- Observations Deployment and Maintenance
- Data Collection Methods:
  - Buoys, Moorings
  - Satellites
  - Ships of Opportunity
  - Aircraft
  - (ROVs) Remotely Operated Vehicles
  - (AUVs) Autonomous Underwater Vehicles
  - (HF) High Frequency Radar
  - Floats, Sub-surface Drifters
OceanObs’19 Outcomes: Link with SDGs

Relevance of Themes to Sustainable Development Goals

**BIOSPHERE**
- Discovery
- Ecosystem Health & Biodiversity
- 14 Life Below Water
- 13 Climate Action
- Climate Variability & Change
- Hazards & Maritime Safety

**SOCIETY**
- 1 No Poverty
- 2 Zero Hunger
- 7 Affordable and Clean Energy
- 3 Good Health and Well-Being
- Pollution & Human Health

**ECONOMY**
- 8 Decent Work and Economic Growth
- 9 Industry, Innovation and Infrastructure
- 11 Sustainable Cities and Communities
- 12 Responsible Consumption and Production
- Blue Economy

Call for Whitepaper Abstract Open

Whitepaper Development Scheme

**OO’19**
- Whitepaper Solicitation
- Abstract

**Presentation at OceanObs’19**
- Writing
- Sept, 2019
- ~ Aug, 2019
- ~ Sept 30, 2018 Due!
- ~ Apr. 30, 2018

**Mar. 15, 2018 Due !!**

**OO’09**
- Plenary Talk/Paper
  - invited, integrating, drawing on CWPs
- Community White Paper/Poster
  - group-submitted, forward-looking, identifying contribution to Plenary Paper

*option*
Whitepaper Abstracts Should Address...

Connections between observation and end users, and emerging, innovative and advanced ideas for, e.g.,

- Science concepts that require multidisciplinary sustained observation
- Technologies & Observation networks
- Requirements for sustaining & enhancing ocean observing capabilities
- Observation system design & evaluation
- Value of observing & priority setting
- Processes to better support research & operations
- Observation-model synthesis
- Data/Info. sharing & management systems
- Best practice of observing and info. delivery
- Strategies to address socio-economic needs

Cross-Cutting subjects

Diversity in authorship
Conference Coordination

Organizing Committee: Coordination

Program Committee
Input to the conference
Tony Lee
Minhan Dai
Sabrina Speich
Sanae Chiba
And 17 Global experts
Staff support:
Nicholas Rome,
Kruti Desai (US IOOC)

Local Organizing Committee
Executing the event
Bruce Howe
Jim Potemra

Sponsor Committee
Guiding the output from the event
Martin Visbeck
Weidong Yu
Eric Lindstrom
Staff support:
Katy Hill (WMO)

Staff support:
Andrea McCurdy,
Michelle McCambridge,
Melanie Russ
(UCAR/CPAESS)
Sponsorship Opportunities

Sponsors can provide support within a financial or intellectual capacity

Financial

Monetary and in kind support:
To support the execution of the conference: student and developing country fellowships, coffee breaks, speakers, town halls, etc.

Intellectual

Community engagement:
Promote the conference
Engage the community
Shape outcomes
Promote results broadly

Financial sponsors levels

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<th>Bronze</th>
<th>Silver</th>
<th>Gold</th>
<th>Platinum</th>
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OceanObs’19

OceanObs’19: An Ocean of Opportunity Town Hall

Tuesday, February 13, 2018
12:45 PM - 01:45 PM
Location: C123-C124

Light food and beverages provided.

The town hall will allow Ocean Science Meeting 2018 attendees to ask questions and provide direct input to the OceanObs’19 organizers about the abstract submission process, sponsorship opportunities, and priorities to shape the outcomes of the conference. As part of the decadal series, OceanObs’19 will galvanize the ocean observing community ranging from scientists to end users. The conference will be held September 16-20, 2019 at the Hawaii Convention Center in Honolulu, HI. OceanObs’19 seeks to improve response to scientific and societal needs, strengthen integration and enhance a fit-for-purpose global ocean observing system, better understand the Earth’s land-sea interactions, bolster atmospheric monitoring and inform climate change adaptation strategies, and promote the sustainable use of ocean resources.

For more information, visit:
www.oceanobs19.net
What is needed near-term?

RESOURCES AND INFORMATION
- Further mobilizing sponsors (led by Sponsor Committee)
- Determining priority outcomes of the conference
- Guidance for the all conference participants (FAQ)

ENGAGEMENT
- Engaging observing system groups
- Engaging user communities

Send ideas to any member of the Organizing Committee
www.oceanobs19.net
An Ocean of Opportunity
See you in Honolulu!!

www.oceanoobs19.net