Integrated Ocean Observation III: Across disciplines and networks

Breakout Session

Thursday 19th September (2-4 pm / Room 316A)

OCEAN OBS'19
AN OCEAN OF OPPORTUNITY
September 16-20, 2019

Session organizers

Patricia Miloslavich
University of Tasmania
Universidad Simón Bolívar
pmilos@usb.ve

Nic Bax
CSIRO
Nic.Bax@csiro.au

Rapporteur

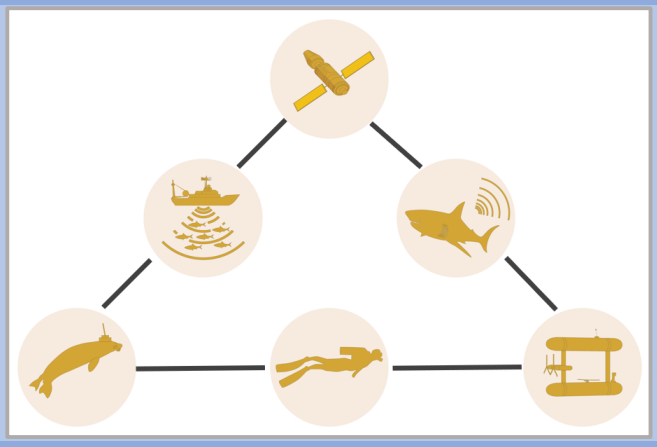
Samantha Simmons
U.S. Marine Mammal Commission

Session co-organizers

Jack Barth Oregon State University, **Sung Yong Kim** KAIST, **Eitarou Oka** University of Tokyo, **Meghan Cronin** NOAA, **Artur Palacz** IOCCP, **Kim Currie** NIWA

Increased coordination and targeted extension of many existing observing networks integrating physics, biogeochemistry, biology and ecosystems is necessary to empower the global community to predict, mitigate, and manage our increasingly impacted and changing ocean and its living resources.

The goal of this third session on "Integrated Ocean Observations", is to provide recommendations on how to fully integrate biological observations into a truly multidisciplinary observing system across all coastal and ocean domains.



Building a multidisciplinary ocean observing system will be a major challenge.
We invite you to bring your ideas on how to implement it!

Expert Panelists

Jan Newton
GOA-ON /U. Washington

Sung Yong Kim
KAIST

Frank Muller-Karger
IMBER / USF

Laura Lorenzoni
IGMETS / NASA

Isabel Sousa-Pinto
MBON / U. Porto

Eitarou Oka
OOPC /U. Tokyo

Session contributors

The Global Ocean Observing System
MBON Marine Biodiversity Observation Network
IMBeR
GCRMN Global Coral Reef Monitoring Network
pogo
SOOS Southern Ocean Observing System
Deep Ocean Observing Strategy
GACS Global Alliance of Continuous Plankton Recorder Surveys
IMOS Integrated Marine Observing System
IOOS Integrated Ocean Observing System
International Ocean Carbon Coordination Project IOCCP
GOA-ON Global Ocean Acidification Observing Network
IGMETS

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AGENDA

2:00 - 2:15 Welcome and introductions (Bax and Miloslavich)

-Goals and expected outcomes
-Introduction of expert panel
-Brief update on recommendations from Integrated I and II sessions (Leads from I and II)
-Brief update on recommendation of Ecosystem health and biodiversity session (M. Estes)

2:15 – 2:30 Building an integrated observing system (Bax and Miloslavich)

-Addressing OceanObs'09 recommendations for integration
-Developing the EOV framework for monitoring
-Defining the observing network requirements
-Priority goals and milestones for the next decade: a roadmap
-Recommendations for implementation

2:30 – 3:45 Open discussion of roadmap and recommendations (The Expert Panel - moderated by Bax and Miloslavich; Sli.do contributions moderated by E. Satterthwaite)

A group discussion will follow along with Sli.do interventions to identify any relevant gaps and concrete ideas on the proposed priority goals and milestones and to reach consensus recommendations on how to integrate disciplines and networks into the ocean observing system.

The panel of experts will facilitate/support the discussions and help answer questions. It is envisioned, that a time allotment of ~20 minutes will be given to the roadmap and to each of the proposed recommendations.

3:45 – 4:00 Wrap up of recommendations for Plenary (Samantha Simmons)

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Chairs

Patricia Miloslavich: Patricia is the International Project Officer of the Biology and Ecosystems Panel of the Global Ocean Observing System (GOOS), based at the University of Tasmania, and a retired professor from the Department of Environmental Studies at Universidad Simón Bolívar. Patricia is experienced in leading and managing international programs related to marine biodiversity and biological oceanography. Currently coordinating activities to implement global sustained observations of marine biodiversity and ecosystems to help manage changes resulting from anthropogenic pressures.

Nic Bax: Nic leads the Marine Biodiversity Hub for the University of Tasmania and is a Senior Principal Research Scientist at CSIRO Oceans and Atmosphere (Australia). He is also the Co-chair of the GOOS Biology and Ecosystems Panel (BioEco). Nic is experienced in developing options to improve marine resource management and providing modelling expertise to support management decision making.

Rapporteur

Samantha Simmons: Sam is the Scientific Program Director of the U.S. Marine Mammal Commission where she advises on the use of the best available science in policy and management decisions under the Marine Mammal Protection Act. Dr. Simmons is involved with several efforts to improve the standardization and availability of biological data nationally and globally. These include chairing an effort to identify biological core variables for the U.S. Integrated Ocean Observing System (IOOS), development of an Animal Telemetry Network, a marine mammal health monitoring and analysis platform, and engaging with the global community through the Global Ocean Observing System's Biology and Ecosystems Panel where she previously served as co-chair and is now assisting with implementation of the marine mammal Essential Ocean Variable.

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Panelists

Jan Newton: Jan is a senior principal oceanographer and professor of the University of Washington. Jan serves as co-director of the Washington Ocean Acidification Center, and co-chairs the Global Ocean Acidification Observing Network (GOA-ON). She also is the executive director of the Northwest Association of Networked Ocean Observing Systems (NANOOS), which is part of a broader program of IOOS.

Sung Yong Kim: Sung Yong is an Assistant Professor at the Korea Advanced Institute of Science and Technology (KAIST). He has served as a co-chair of Advisory Panel of North Pacific Coastal Ocean Observing System (AP-NPCOOS) and a member of Technical Committee and Working Group of Mesoscale and sub-mesoscale processes in the North Pacific Marine Science Organization (PICES). Sung Yong is also a member of the Ocean Observations Physics and Climate (OOPC) Panel of GOOS.

Frank Muller-Karger: Frank is a biological oceanographer and professor at the College of Marine Science, University of South Florida. Frank co-chairs the Marine Biodiversity Observation Network (MBON), is a member of the of the GOOS BioEco Panel, of the Steering Committee of IMBER, and leads the Research Coordination Network (RCN).

Laura Lorenzoni: Laura is a Program Scientist for the Ocean Biology and Biogeochemistry Program (OBB) in the NASA Headquarters Science Mission Directorate. She is an IPA detailee from the University of South Florida, College of Marine Science. She worked with the CARIACO Ocean Time-Series project and with the International Group for Marine Ecological Time Series (IGMETS).

Isabel Sousa-Pinto: Isabel is a professor at the University of Porto and researcher at Ciimar: Centre for Marine and Environmental Research. She is the member of the Steering/Executive Committees of several international and European programs including the European Platform for Biodiversity Research Strategy, the European Institute for the study of Marine Biodiversity and Ecosystem Functioning, the European Network of Marine Research Institutes and Stations, the Development and implementation of a pan-European Marine Biodiversity Observatory System. She co-chairs the Marine Ecosystem Change working group from GEO BON.

Eitarou Oka: Eitarou is an associate professor at Atmosphere and Ocean Research Institute of the University of Tokyo. He is a sea-going physical oceanographer and a member of Ocean Observations Physics and Climate Panel (OOPC). His main interest is the upper-ocean circulation of the North Pacific Ocean.