DIGITAL OCEAN SYSTEMS TO SUPPORT AND STRENGTHEN IMPLEMENTATION OF THE SUSTAINABLE DEVELOPMENT GOALS
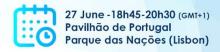
An official side event of the UN Ocean Conference 2022

27 June -18h45-20h30 (GMT+1)
Pavilhão de Portugal
Parque das Nações (Lisbon)

Side Event Overview
UN Ocean Conference 2022 Side Event ID: OBZB124

A resilient life-supporting Ocean (SDG 14) is at the heart of sustainable development. Ocean processes, resources, and ecosystem services are critical for achieving all 17 SDGs across the 3 pillars of sustainable development: environment, society, economy (Schuckmann et al., 2020). The Ocean holds many of the solutions that humanity and the planet urgently need, such as improving global food security, reducing climate and weather risks, providing clean energy, and increasing economic growth through blue economy sectors. This priority on the Ocean is reflected by the elevation of the Ocean to a prominent role in global policy dialogues and on the unprecedented increase in innovations for monitoring, understanding, and predicting the Ocean environment.

This side event contributes to the 2022 UN Ocean Conference themes of
- leveraging interlinkages between Sustainable Development Goal 14 and other Goals towards the implementation of the 2030 Agenda,
- managing, protecting, conserving, and restoring marine ecosystems, and
- increasing Scientific Knowledge and Developing Research Capacity and Transfer of Marine Technology.

Understanding the complex cause-and-effect connections between Ocean processes and sustainable development solutions requires new approaches offered by recent advances in ocean science, working across disciplinary silos, high-performance computing, artificial intelligence, machine learning, and digital ocean analysis and prediction systems. ***Co-designing these tools to deliver the targeted information needed for policymakers and to achieve the SDGs requires a dialogue between Ocean science, prediction system developers, SDG experts, and the Ocean governance sector.***

This side event will describe the decision-making support tools that will be made possible by new digital ocean analysis and prediction systems and will initiate an inter-community dialogue about the Ocean information that States need to support SDG policies and actions in food security, sustainable economic development, climate, and disaster risk reduction.

The expected outcome is the initiation of new blue partnerships at the science-policy interface across the SDGs to 1) carry out a stocktake of resources, mechanisms and opportunities for the transfer of blue knowledge across the science-policy interface, 2) co-design digital Ocean prediction systems that respond directly to Ocean diplomacy, governance, and management needs for a sustainable Ocean stewardship, and 3) develop new tools and resources for scaling up Ocean action informed by the best-available science and innovation.

Agenda

Monday, June 27th 18h45 -20h30, Pavilhão de Portugal - Parque das Nações

	Presentation	**Presenter**
18h45	Opening remarks	*José Maria Costa* Secretary of State for the Sea of Portugal.

SESSION 1: DIGITAL OCEAN SERVICES TO SUPPORT THE UN 2030 SUSTAINABLE DEVELOPMENT GOALS

Moderator: Hartwig Kremer, Chief, Global Environment Monitoring Unit, Science Division, UNEP

18h50-18h55	**The Role of the Ocean in Sustainable Development Goals and UNEP GEMS-Ocean**	*Hartwig Kremer* Chief, GEM Unit, UNEP
18h55-19h00	**Ocean Prediction for International Ocean Governance**	*Charlina Vitcheva* Director-General – European Commission Directorate for " Maritime Affairs and Fisheries" (MARE)
19h00-19h05	**International Coordination for Digital Ocean Prediction Systems: the view from Europe**	*John Bell* Director Healthy Planet European Commission Directorate "Research and Innovation" (RTD)
19h05-19h15	**Keynote Presentation: The Future of Ocean Prediction to Support Sustainable Development Goals**	*Pierre Bahurel* Director General, Mercator Ocean International

SESSION 2: OCEAN KNOWLEDGE NEEDS AND DIGITAL OCEAN SOLUTIONS

Moderator: Enrique Alvarez, Technical Director, Decade Collaborative Centre for Ocean Prediction, Mercator Ocean International

19h15-19h25	**Keynote Presentation: Ocean Science, Data, and Services for the UN 2030 Sustainable Development Goals**	*Karina von Schuckmann* Oceanographer specialized in ocean climate monitoring, Mercator Ocean International
	2.1 Sustainable Ocean Economy	
19h25-19h30	**Ocean Information and Prediction Needs for a Sustainable Ocean Economy**	*Peter Haugan* Programme Director, Institute of Marine Research, Norway
19h30-19h35	**Developing Digital Ocean Solutions to Support a Sustainable Ocean Economy**	*Francisco Campuzano* Researcher and Numerical modeler at +ATLANTIC CoLAB, Portugal

2.2   Climate

19h35-19h40	**Ocean Information and Prediction Needs for Climate**	*Joanna Post* Programme officer, United Nations Framework Convention on Climate Change (UNFCCC)
19h40-19h45	**Developing Digital Ocean Solutions for the Polar Ocean**	*Johnny Johannessen* Research Coordinator, Nansen Environmental and Remote Sensing Center and University of Bergen, Norway

2.3   Coastal Resilience and Disaster Risk Reduction

19h45-19h50	**Ocean Information and Prediction Needs for SIDS and Disaster Risk Reduction**	*Elisabeth Holland* Director, Pacific Centre for Environment and Sustainable Development, Fiji
19h50-19h55	**Developing Digital Ocean Solutions for Coastal Ocean Prediction and Coastal Resilience**	*Nadia Pinardi* Professor of oceanography, Bologna University, Italy

2.4   Food Security and Ocean Health

19h55-20h00	**Ocean Information and Prediction Needs for Food Security**	*Vera Agostini* Deputy Director, Fisheries and Aquaculture Division, FAO
20h00-20h05	**Developing Digital Ocean Solutions for Ocean Health**	*Jorn Schmidt* Chair, ICES Science Committee

20h05-20h25	## OPEN PANEL DISCUSSION

Moderator: Francoise Gaill, Vice-President, The Ocean and Climate Platform

The moderator will lead an open discussion with speakers and the audience around 3 main questions:

1) How do we ensure that Ocean science and digital Ocean systems are designed to respond to SDGs and Ocean governance / policy needs?

2) How do we deliver Ocean knowledge products that are targeted, findable, and useable for governance and policy?

20h25	**The Science-Policy Dialogue & importance of digital ocean systems in the framework of the EU mission: "Restore our Ocean & Waters by 2030"**	*Pascal Lamy* Coordinator of the Jacques Delors Think Tank Network
20h30	**Closing remarks: The UN Ocean Decade of Ocean Science for Sustainable Development**	*Vladimir Ryabinin* IOC/UNESCO, Executive Secretary