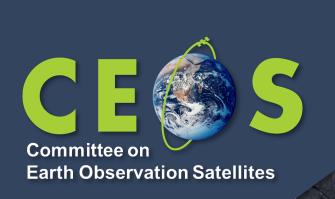


Workshop 2024

UN Conference on the Ocean

Nice (FR), 9-13 June 2025

Selma Cherchali, CNES
Agenda Item 9,7
SIT Technical Workshop 2024
Sydney, Australia
18th - 19th September 2024



Outline



- What is the **« UNOC conference series »?**
- UNOC n°3 main goal and key objectives
- the Setup of an International "Ocean Space Alliance" to address UNOC objectives
 - The IPOS & the Ocean Health Indicator
 - CEOS & UNOC3
 - Proposed Roadmap to UNOC3

What is UNOC?



- The United Nations Ocean Conference series is dedicated to Support the Implementation of Sustainable Development Goal 14.
- The Conference aims to be the game changer that will reverse the decline in the health of our ocean for people, planet and prosperity.
 It will be solutions -focused with engagement from all.
- Previous UNOC conferences: UNOC1 (New York, June 2017), and UNOC2 (Lisbon, June 2022)
- In 2017, the UN General Assembly has launched the "UN Decade of Ocean Science for Sustainable Development 2021 -2030"
- To help achieve progress towards SDG 14, the Assembly in 2022 decided to convene the high -level 2025 UNOC in Nice/France in June.

UNOC 3 (9-13 June 2025, Nice)



UNOC3 main goal is to Act towards the realization of SDG14 "Conservation and sustainable use of the ocean, seas and marine resources", mainly through three different objectives:

- To Elaborate an action plan of decisive, swift and unified efforts to address Ocean's critical condition:
 - Marine pollution,
 - Protection of marine and coastal ecosystems,
 - Reduction of ocean acidification,
 - End of illegal fishing and overfishing,
 - Increase in scientific knowledge related to ocean,
 - Respect of international law, etc...
- To Define an Ocean Health indicator as proposed by IPOS (International Panel for Ocean Sustainable, initiated by CNRS, composed of 15 public marine research organisations)
- To Acknowledge Mercator Ocean International to evolve into an Intergovernmental Organisation to acquire, manage and propose marine data, products and services to international stakeholders





UNOC 3 (9-13 June 2025, Nice)

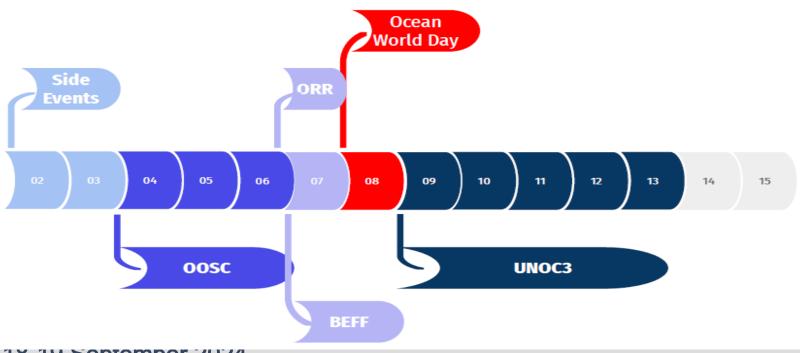


Organisation and Planning

Three side events are scheduled:

- → The One Ocean Science Congress (OOSC): organized by CNRS and IFREMER. (4-6 June);
- → The Blue Economy and Finance Forum (BEFF), hosted by the Principality of Monaco (7 June);
- → a Summit of Coastal Cities and Regions focusing on Ocean Rise & Resilience (ORR), led by the city of Nice and the Ocean Climate platform (7-8 June):





UNOC 3 (9-13 June 2025, Nice)



Potential Role of CEOS in relation to UNOC3



- 1) the implementation of an action plan (dedicated to solve key urgent issues of societal importance) and
- 2) The definition of an Ocean Health Indicator.

In that context, CEOS has a **key role** to play **in providing/promoting EO data & derived knowledge information products** to address those objectives.

To collect "Space" expertise, ideas, knowledge and experiences and to promote them at an high political level, a platform of exchange, so called an "Alliance" (= forum), has to be set-up to act as a key interface with UNOC members and the UN General Assembly.

UNOC & The Ocean Space Alliance CE



Potential Role of CEOS in relation to UNOC3: To support the launch of such an International Alliance of space agencies/organizations to act towards SDG14 targets/objectives.

This Ocean Space Alliance aims to:

- Act as a forum of discussion gathering key international space stakeholders (space agencies, CEOS representative, SCO PIs, governments representatives, UN programs' leaders...);
- Promote proven operational applications and services;
- Consolidate and maintain an international "Space" multilateral dialogue on the long -term;
- Act as the "Space" focal point in relation to UNOC : such Alliance will contribute to the elaboration of official UNOC declarations and recommendations;
- Organize a "Special Space Event" at each UNOC conference;

UNOC & The Ocean Space Alliance



Potential Role of CEOS in relation to UNOC3: To support the launch of such an International Alliance of space agencies/organizations to act towards SDG14 targets/objectives.

In particular, such UNOC "Special Space Event" will aim:

- To present the latest "Space" scientific data and knowledge which can bring a real added value in the design/development of future space missions & international research projects:
 - New products (e.g. ocean health indicators in cooperation with IPOS);
 - New ocean/coastal monitoring systems;
- To **communicate on the "Space toolkit"** (which encompasses services, products, applications, training opportunities etc.) dedicated to beneficiaries who do not have enough "space" resources (e.g. small island developing states/SIDS) and wish to implement operational monitoring programs on their coasts/regional seas (in cooperation with UN support such as UNOOSA, UNEP,FAO, UNDP etc.).
- To collect end-users feedbacks on existing EO space based products/services in order to potentially upgrade them and ideally to promote the development of new ones;

IPOS and the Ocean Health Indicator CE



IPOS = International Panel for Ocean Sustainability

→ Why an IPOS?

• The IPOS intends to address challenges by becoming the new gateway that (re)connects knowledge and decisions for a sustainable ocean;

→ IPOS Governance

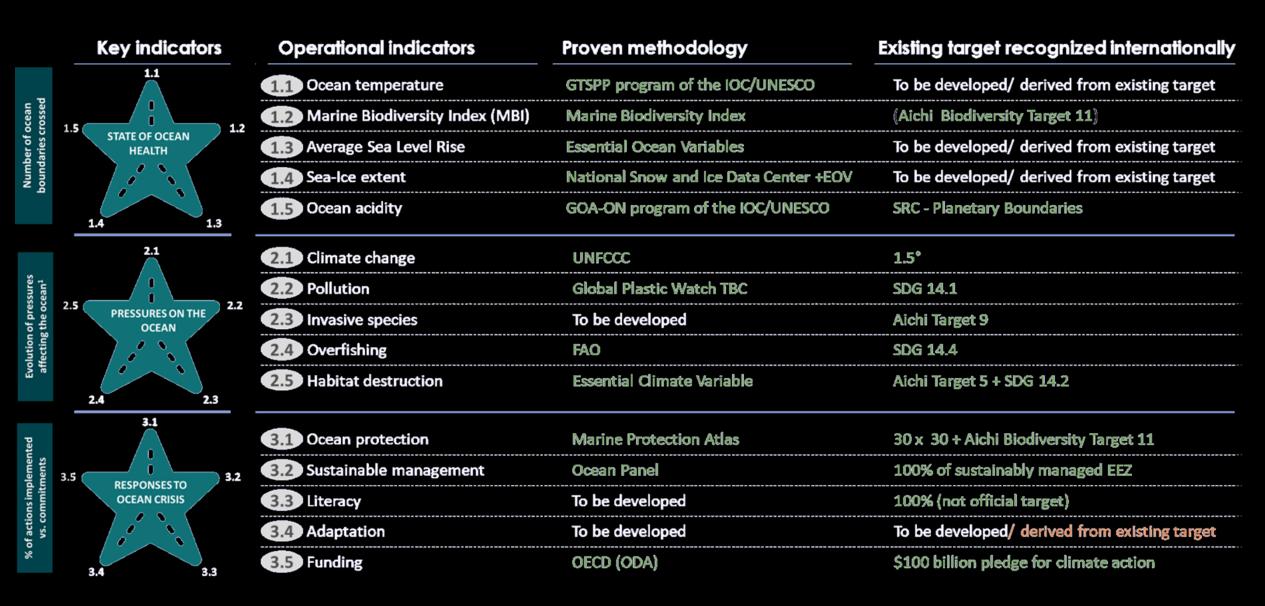
- The goal is for the IPOS to be established as a neutral independent entity under the UN umbrella;
- The IPOS is to be launched at UNOC June 2025.

→ Ocean Indicators

Major IPOS deliverables would be Ocean indicators describing:

 i) the state of ocean health, ii) the associated pressures and iii) the foreseeable management measures
 Each indicator will be made of key variables (temperature, biodiversity, SLR etc...

KEY IPOS INDICATORS



^{*} SIDS: Small Island Developing States

Links CEOS & the Ocean Space Alliance CE



Brief reminder of CEOS COAST

- Since 2019, CEOS has formed a coastally focused team (COAST) to advance free, open source data to better inform society of coastal issues

 In addition, CEOS COAST incorporates various Earth Observation data products.
- CEOS COAST is engaging identified stakeholders:
 - in the co-design and testing of coastal products;
 - to **provide information they need** in the ways they want it delivered, and with a lowered barrier to data access.
- Since 2021, CEOS COAST is an endorsed UN Ocean Decade Contribution
- Since April 2024, COAST is a cross-cutting Virtual Constellation (COAST-VC) to help bridge land and aquatic observations within CEOS, and to continue the integration of multiple CEOS entities and domains, both thematic and technical (SST-VC, OST-VC, OCR-VC, LSI-VC, OSVW-VC, AC-VC, AFOLU, WG Disasters, Biodiversity etc.)
- COAST-VC is currently led by NOAA, ISRO and CNES .

Links between CEOS, the Ocean Space Alliance & IPOS





Synergies

with the Ocean Space Alliance objectives on

Marine & Coastal ecosytems **Marine Protected Areas** Marine Pollution Fisheries management

Synergies

with IPOS "Ocean Health Indicator" on

Marine Biodiversity Sea Level Rise Ocean Acidification **Pollution Overfishing** Habitat destruction Etc.

COAST is trans-parameter (parameter all ocean/water parameters)

COAST is trans-boundary (ocean + land + atmosphere + cryosphere)

COAST is trans-disciplinary (environmental + social science)

CEOS & the upcoming UNOC3



As soon as the Alliance is being setup,

- CEOS is to be represented → this is in coherence with the CEOS-COAST proposal to designate a CEOS representative for interactions with IOC, GOOS etc.
- CEOS could work with IPOS to develop the spatial contribution of Ocean Indicators, particularly the Health Indicator;
- CEOS could propose key research products /services useful for quick uses/uptakes for UNOC implementating actions;

Next steps



CEOS SIT TW

- September 17 Side event (1 hour) 2-3pm
 - Discussion & info exchange
- September 19 10 min in AOB session
 - Discussion & info exchange
 - Official position from CEOS SIT: preparation of a statement to be presented and endorsed at the CEOS Plenary in October.
- CNES side meeting at IAC in Milan 15 October 2024 (1.30-3pm) enlarged to other stakeholders (e.g. UN entities): communication & exchanges on potential design of joint events (e.g. trainings)
- CEOS Plenary in Canada: 22-24 October 2024
 - Endorsement of CEOS representation in the future UNOC/Ocean Space Alliance
- Dedicated "Ocean Space Alliance event" to be held at UNOC 8 June 2025.