









OOPC Panel Session 4

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OOPC: Achievements

- In the course of the **OOPC-26 annual meeting** held in June 2023...
 - Progress is achieved in several cross- GCOS panel initiatives including: sustainability of in situ networks; climate data management; ECV rationalization; Climate Indicators; Air-Sea Fluxes.
 - OOPC Workplan 2024-2028 is started during the OOPC-26, presenting the main lines of work for the panel including a new and ambitious activity on Heat and Freshwater Fluxes.
- Results from the Task Team on Boundary Currents under review in Oceanography co-authored by more than 20 experts/OASIS (Air-Sea fluxes) programme, huge development.
- Interaction with CLIVAR management to set the basis for several joint activities: (1) pan-tropical observing system design (Satellite event at the Ocean Decade Conference) (2) Marine heatwaves (still in discussion);
- Physical/Chemical Ocean Indicators discussed and defined to serve as proof of concept
- Strong commitment of OOPC experts: getting involved/leading many initiatives (Ocean Decade, OCG, CLIVAR, WMO expert teams, WGClimate-remote sensing...)



OOPC: New important initiatives

- Activity on Heat and Freshwater Fluxes (links to WCRP)
- Pan-tropical observing system (links to Co-design/CLIVAR)
- Engaging in the Rolling Review of Requirements Process of WMO, and with the definition of ocean observation requirements as part of WMO Global Basic Observing Network (links to WMO)
- Collaboration with EU projects <u>ObsSea4Clim</u>



OOPC: Main challenges and recommendations

Lack of resources:

 It is a lot about navigating a complex landscape, the need to foster interactions and optimise resources is there, but there is a systemic lack of time from experts and also a lack of Secretariat support

Connected to that:

The follow up is not optimal:

 Many of the outputs are not properly communicated, enforced (e.g. GCOS IP Recommendations or EOV/ECV requirements)



OOPC: Main challenges and recommendations

- 1. Engagement with the modeling community
 - developing the optimal matrix to guide the observing system development,
 - promoting observation-based model assessments to improve models
 - advocate the importance of ocean observations for weather to climate projections, i.e. links with WMO, subseasonal to seasonal forecasts communities, and decadal to climate projections.
- 2. Global AND coastal observation, to address and adapt to climate change and reduce the climate risks
- 3. Indicators: Must GOOS position itself in this space?

