

Meeting Minutes

Global Synthesis and Observations Panel



Date: 2024-05-02 **Start date:** 8:30 pm China ST (UTC+8)

Venue: GoTo Meeting **ICPO Staff Host** Agus Santoso

Attendees (11)

Peter Oke, Aida Alvera Azcárate, François Counillon, Lijing Cheng, Pablo Canziani, Shuhei Masuda, Yonghong Yin, Aneesh Subramanian, Uwe Send, Hindumathi Palanisamy, Agus Santoso (ICPO).

Co-Chairs: Peter Oke

Peter opened the meeting by going through panel feedback from the SSG at the 29th session, mentioning interactions with other panels that are most relevant to GSOP, leveraging external meetings/conferences for the panel to meet and bring the community together, documenting activities in journal articles/CLIVAR outlets, finalizing membership.

Membership discussions (see further below).

1. GSOP ToR summary

- Develop and promote ocean, atmosphere, and climate model-data synthesis.
- Defining requirements for sustained observing.
- Development of metrics for assessing reanalyses.
- Engage with various other panels and working groups.
- Data impacts (inc future observing platforms) – Francois' comment
- Model/reanalysis validation and data rescue – Pablo's comment

Mentioned SSG feedback to GSOP co-chairs how the SSG was supportive.

2. Highlights from various presentations at the SSG 29th session – Peter's notes.

- *OMDP* – impressive productive group; GSOP-COMMODORE workshop, an idea: how data assimilation corrupts model dynamics .
- *SORP* – SOFIA initiative, summer schools, upcoming CLIVAR Exchanges, quarterly seminar series with invitation for others to contribute.
- *IORP* – summer schools, tracking the Indian Ocean observing system (status of observing system, implication on reanalysis systems) – GSOP should make a connection. Peter had already contacted IORP co-chair Janet Sprintall.
- *PRP* – various activities, working groups; ENSO metrics might be of interest.
- *CDP* – another highly organized panel.



- *NORP* – participating in the Ocean Reanalysis Intercomparison Project which GSOP could contribute to.
- *Monsoons Panel* – defining indices.
- *ARP* – another panel having task teams each with ToR.
- *Tropical Basin Interactions Research Focus*.
- *Marine Heatwaves Research Focus*.

Pan-CLIVAR Meeting – second half in 2025, providing an opportunity for all panels in-person meeting. Peter: hopes to present the panel's outcome.

Linking GSOP to other CLIVAR panels (identifying panel members as liaisons to other panels).

3. Cross-panel interactions

Panel members volunteered to serve as liaisons to other panels:

- Aida – Marine heatwaves, Atlantic Region Panel (particularly if it includes Mediterranean Sea).
- Yonghong – Indian Ocean Region Panel, Pacific Region Panel.
- Shuhei – Indian Ocean Region Panel.
- Aneesh – Pacific Region Panel.
- Pablo – Climate Dynamics Panel, Southern Ocean Region Panel.

Action Item 1: Peter and/or panel members to contact respective panels' co-chairs for these linkages.

Francois: interested to interact with ARP and TBI, although departing the panel, and will remain connected to GSOP in other ways.

Lijing mentioning two activities relevant to GSOP: International Quality-controlled Ocean Database (IQuOD) – endorsed by GSOP many years ago (Lijing is a co-chair of IQuOD, hoping to have joint activity/paper with GSOP); WCRP-GCOS activity in assessing energy, water, carbon cycles.

https://www.wcrp-climate.org/WCRP-publications/2023/202311_GCOS-WCRP_workshop-report_final-2.pdf

Yonghong is involved in reanalysis intercomparison activities.

Aneesh: TEPEX field campaign is an outcome of TPOS2020, involved in SynObs OSSE intercomparison.



Lijing: 4 groups of ocean observations meeting in Italy in the coming month

Action item 2: Next meeting:

Aneesh to present on TEPEX and SynObs.

Andreas Storto on reanalysis/intercomparison activities that he's running.

Lijing to present on IQuOD - impact of QC on reanalyses.

Pablo on Data Rescue

+ 1 science talk?

Presentation format: 5 min. talk followed by 5 min. discussions.

4. Memberships

Discussing two nominations from the 2023 open call, with one deemed to be suitable.

Nomination procedure: Need to put the nomination received from the open call forward to the SSG, and once accepted by the SSG, ICPO will issue an invitation letter to the candidate.

Members whose term has reached the maximum (5 years): Matt Mazloff, François Counillon, Lijing Cheng.

Aida is willing to stay on for another 2 years if required by the panel.

Members wanting to rotate out: Nathalie Zilberman, Hindumathi Palanisamy (providing suggestion that GSOP could entrain members from OOPC that Hindumathi has been interacting with).

Suggested new members: Paul Chamberlain (observations, obs. design), Angela Kuhn (BGC modeler, data assimilation).

The panel needs to propose names for new members. Those rotating out (e.g., Francois, Lijing) are encouraged to provide nominations. Consider gender balance, geographical distribution. Consider inviting an Ex-Officio: Magdalena Balmaseda.

Action item 3: GSOP to propose names for new members to replace those rotating off.

Action item 4: ICPO to set up next meeting for early June.

Peter thanks the panel for the engagement at the meeting.

Agus reminds that the panel need not do the work on their own, but set up task teams to address the Terms of Reference by coordinating activities that are happening around the world, including involvement of institutions outside CLIVAR that have ongoing projects.

End of Meeting