



# Review/action items/unfinished business from WGSIP 24

WGSIP 25  
4-8 November 2024  
Toulouse, France



**ESMO**  
Earth System Modelling  
and Observations

**WCRP**  
World Climate  
Research Programme

WGSIP 24 was held 27-29 March 2023  
at ECMWF in conjunction with WCRP  
Symposium →

# WCRP hybrid symposium on Frontiers in Subseasonal to Decadal Prediction

28 March 2023, ECMWF Reading, UK and online

## Agenda and presentations

Agenda ([.pdf version](#))

- [The bone and the marrow: some suggestions for the future of climate prediction](#) - **F. Doblas-Reyes**
- [Destination Earth and the future of climate information](#) - **P. Dueben**
- [Prospects for Earth system reanalysis at ECMWF: ERA6 and beyond](#) - **H. Hersbach**
- [Multi-year prediction of the global carbon cycle and potential policy implications](#) - **T. Ilyna**
- [The role of aerosols in climate predictability and prediction](#) - **A. Frassoni**
- [Toward resolving the ocean mesoscale: challenges and potential benefits](#) - **C. Roberts**
- [Explainable AI for Climate Science: Detection, Prediction and Discovery](#) - **E. Barnes**
- [Use of assimilation increments for bias correction and predictability studies](#) - **A. Molod**
- [The role of vegetation in climate predictability and prediction](#) - **A. Alessandri**
- [Application of subseasonal to decadal predictions to marine ecosystem management](#) - **M. Jacox**
- [Improving seasonal forecasts using probabilistic deep learning](#) - **D. Lucas**
- [Current and future directions for development of subseasonal to multiseasonal climate services](#) - **J-H. Yoo**

<https://www.wcrp-climate.org/decadal-prediction-link/symposium-frontiers-sdp>

# WGSIP 24 action items

- 1) Organise discussion between CIMA, APCC and ET-OCPS on archiving and sustainability of CHFP.

~Done + ongoing (agenda item at WGSIP 25)

- 2) Discuss with WCRP Core Projects SSG co-chairs about activities of interest to WGSIP, and identify points of interaction. WGSIP members could then make the connection depending on areas of interest.

~Done (IPOs or potential liaisons were approached)

- 3) WGSIP members to consider whether they would like to serve as liaisons with other Core Projects (RfS/CLIVAR/CLiC/GEWEX/SPARC).

Done

- 4) Explore training resources and opportunities with the WCRP Academy, RCCs, WMO Services and Infrastructure departments, including opportunities for WGSIP members to provide training.

?

# WGSIP 24 action items

- 5) Establish connections with EU projects in the development of new WGSIP Projects, and pursue related opportunities for collaboration.

No follow up, further opportunities can be considered in WGSIP 25

- 6) Schedule a webinar wherein Ariane Frassoni can present an updated version of her symposium talk with additional S2S aerosol project results when they become available.

Not pursued, but WGSIP may want to consider whether to host a periodic webinar

- 7) Identify reviewers for WMO S2S guidance document from within WGSIP once a mature draft is available.

Done

- 8) Form ~2-person writing teams to draft WCRP/WMO position papers on (1) multi-model combination and (2) verification once bullet points from ET-OCPS are available.

Ongoing based on recent communication with ET-OCPS

# WGSIP 24 action items

- 9) Develop a concrete proposal (or options) to present to ESMO for continuing the scientific legacy of S2S within WCRP (e.g. task team with deliverables & limited life).

Done + ongoing (agenda item at WGSIP 25)

- 10) Lay initial groundwork for major workshop or conference in Fall 2025 or spring 2026, aiming for community buy-in & engagement by fall 2023. Consider concepts for such a meeting, such as a general S2S/S2D conference or conferences like those held in Boulder in 2018, or one with a specific theme such as near-term climate information.

Done + ongoing (agenda item at WGSIP 25)

- 11) Identify potential new WGSIP members to encourage to self-nominate for memberships starting in 2024.

Done

# WGSIP 24 action items

- 12) Develop initial concepts for a set of research focuses (rather than “projects”?) for 2024-2029, to be decided on at WGSIP25.

Done + ongoing

- 13) Pursue opportunities and prepare a proposal to ESMO for a WGSIP 25 meeting in the second half of 2025 that is held jointly with one or more other events, possibilities for which include a training school, the meeting of another WCRP group, or an ESMO-wide “kick off” meeting involving all ESMO groups meeting both jointly and individually over the course of a week.

Done!

- 14) Provide summaries of activities and publications relating to all WGSIP projects to co-chairs, who will collate and forward the information to Nico.

Some follow up although no longer relevant (see next item)

# WGSIP 24 action items

15) Update corresponding pages in WGSIP web space once updated project information has been provided to WCRP.

Information on activities and publications now should be sent to ESMO IPO to enable updating of web space

16) All presenters to send one paragraph describing each of their presentations to Nico for meeting report.

Done although no meeting report was produced (are they still necessary?)