



1.3 Report from GCOS SC

Peter Thorne



**GLOBAL CLIMATE
OBSERVING SYSTEM**

KEEPING WATCH OVER OUR CLIMATE



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Recommendations

| Recommendation Number | Description |
|-----------------------|---|
| R31/1 | Air-Sea and Land-Air fluxes. OOPC and TOPC should provide a regular integrated report on the progress made on air-sea and land-air fluxes from relevant groups (e.g. OASIS, WCRP, GAW) including regional initiatives and report to the next SC. |
| R31/2 | Sustainability of the observing system – GCOS Secretariat to propose to present at the upcoming Earth Information Day (EID) at COP29 on the lack of sustainability of certain observing systems identified in the GCOS IP action A1, including the situation of the declining performance of GSN and GUAN. |
| R31/3 | GCOS National coordinators. Update the list of national coordinators by: <ol style="list-style-type: none"><li>1. The GCOS Secretariat organizing online meetings per region with the RSO representatives, using UNFCCC list of contacts.<li>2. Requesting SBSTA parties to nominate the National Coordinators (based on existing mandate). GCOS SC Members can help with this process once the GCOS Secretariat provides them with the right documentation (ToR for GCOS National Coordinators etc.) |
| R31/4 | Earth Cycles. The GCOS Secretariat with the GCOS Panels to follow up on the recommendations of the joint WCRP-GCOS workshop once the initial paper is published |

Recommendations

| Recommendation Number | Description |
|-----------------------|---|
| R31/5 | Earth Cycles. The scientific community to continue the regular assessment of earth cycles from observations, in line with action B10 of the GCOS Implementation Plan. |
| R31/6 | Work with G3W, jointly with WCRP (global carbon project), GAW (atmospheric composition) and GOOS, to align GHG-related work and G3W actions for the 2027 G3W Implementation Plan. |

| Decision Number | Description |
|-----------------|---|
| D31/1 | To approve the extension of membership for Meghan Cronin (OOPC Member) |
| D31/2 | To approve the timeline of GCOS SC Rationalization including a meeting in 2025 |
| D31/3 | To present to WMO Services the proposal for 3 new climate indicators |
| D31/4 | To approve the update of GCOS-245 relying on the chairs |
| D31/5 | To decide on how to respond to requests to GCOS to co-author papers |
| D31/6 | Peter Thorne will be the GCOS representative on the SOFF Advisory Board, with Tim Oakley acting as alternate |
| D31/7 | To approve the 5y timeline for the Secretariat/GCOS programme (including advancing GCOS Status Report by one quarter) |

| Action Number | Description |
|---------------|---|
| A31/1 | GCOS to invite Space Agencies to enter a dialogue to establish permanent calibration/validation stations to make sure that the increasing amount of data that is being generated can be validated. Participate/do a presentation on GCOS (reference) networks in WGCV - WGClimate/CEOS Working Group on Cal/Val. GCOS Secretariat – Next WGClimate Meeting (February 2025). |
| A31/2 | Interact with WCRP and the co-chairs of IPCC AR6 in advance of the Status Report, to include new areas based on their science priorities. GCOS SC Chairs – 2025-2026. |
| A31/3 | GCOS SC members to help with identifying and connecting with GCOS National Coordinators. GCOS SC – By next SC. |
| A31/4 | Prepare a GCOS submission to the GGA process (GGA Indicator mapping) advocating for the importance of systematic observations & data rescue. GCOS Secretariat – 31 July |
| A31/5 | Coordinate with WGClimate/WMO/GOOS in the process of submissions for topics for Earth Information Day. GCOS Secretariat - end of August. |