

#### 1.6 Review of AOPC - 28 actions

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# AOPC-28 closed actions

n	action	responsibility	By when
A1	Discuss with the marine community about potential reference ocean stations which are measuring temperature at surface	TT-GSRN co-chairs	
A2	GSRN, GRUAN and BSRN to have a discussion about reference surface radiation measurements to make sure that we are working together and not duplicating efforts	GCOS Secretariat	Dec 2023
A6	Discuss with GGGW to have an ex-officio post for AOPC	GCOS Secretariat	December 2023
A11	Forward to WGClimate the recommendation from AOPC28 for Actions B1.3; B1.5 and D4.1	GCOS Secretariat	Next WGClimate- GCOS meeting
A12	ECV Stewards to undertake initial entries into table A1.1	ECV Stewards	Dec 2023
A13	ECV Stewards to undertake initial entries into table C1.1	ECV Stewards	June 2024
A14	ECV Stewards to undertake initial entries into table D2.1	ECV Stewards	Dec 2023

Follow up about data from wind farms: are there any data made publicly available? Invite wind industry representative to present at a future panel virtual meeting (IP Action B9-meeting requirements for PBL)	AOPC Chair	September 2023
panel virtual meeting (IP Action b9-meeting requirements for PBL)		

A16	ECV Rationalization: Caterina to identify volunteers for the group that will work on the ECV rationalization. These volunteers should regularly report back to the panel	GCOS Secretariat	Report at next AOPC
A20	Review the Climate Monitoring Principles	Imke, Rainer and Stephan	October 2023
A22	Encourage more precipitation in situ observations that would help resolve the difficult areas, encourage more international transmission of precipitation data w/o restrictions.	ECV Stewards on precipitation	Report at next AOPC
A23	Invite WGClimate to consider the role of new and novel technologies and novel orbital configurations to address persistent spatio- temporal gaps in satellite observations	GCOS Sec	Next WGClimate

A27	Produce a working document to track AOPC relevant documents.	GCOS Secretariat	October 2023
A28	Caterina to provide input on ECV Inventory to WGClimate as drafted and agreed during the meeting	GCOS Secretariat	Next WGCLimate- GCOS meeting

# AOPC-28 with agenda items

A4	Panel members to reach out to their countries about the operational implementation of CLIMAT (daily) Raise up the issue to operational implementation of CLIMAT at SC-ON	Blair for Australia; Imke for US AOPC Chair	Discussed at Meeting with NCEI. Reported in agenda item 1.5
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A7	Discuss with the marine community about extending the in-situ monitoring of atmospheric composition over the ocean (IP Action B4)	Paolo and Liz	Agenda Item 4.2
A8	ECV stewards to undertake an audit to capture relevant data products and how they are maintained. Initially, Liz will complete an example and share this with all AOPC ECV Stewards. (IP Action C3)	Liz Kent ECV Stewards	Agenda item 4.4
A9	Produce a best practices paper, highlighting some of the best practices used for in situ data sets creation.		Agenda Item 4.4
A10	NCEI to provide monitoring on surface hourly data holdings (GCHN) to demonstrate the impact of GBON (IP Action F1.3)	Imke Durre	Discussed at Meeting with NCEI. Reported in agenda item 1.5

# AOPC-28 with agenda items

A17	CPG Air-Sea fluxes: Contribute to the drafting of the document: Liz, Carmen, to contribute to writing a report and preparing a workplan.	Liz and Carmen	Agenda item 1.3
A18	CPG on Data centers: Imke, Stephan and Rainer to continue to engage with this group. Imke to lead this group and report back to AOPC.	Imke, Stephan and Rainer	Agenda Item 3.3
A24	GCOS 144: relevant ECV stewards to undertake a review of the document with a view of producing an updated version.	Tim to coordinate; ECV stewards	Agenda Item BOG.1

A3	GCOS Secretariat will work with WMO to contact countries to request existing thunder day records to be delivered to the	GCOS Secretariat	Dec 2023
	Copernicus repository.		

- 1. Caterina and Tim engaged with Kruno to know how to ask Members to make TD available to a central repository
- 2. Kruno suggested a letter to the PRs asking this. However, the approach was not approved.
- 3. Meeting with Earle, Steve and Tim to decide how to target countries to be contacted. At the meeting it was decided to contact targeted countries, starting with the ones for which we have informal contacts (such as AOPC members). The request will be sent together with a letter explaining the background. Letter has been prepared, Simon Noone has provided the link to access the repository.
- 4. Before sending the letter to the specific countries, we need to have an inventory on what is already in the repository (there is no inventory) and to assess the usability of the data before asking for some more data. A Masters student from Peter's course will (potentially) start to work on the inventory and then we will decide whether to send the letter.

As of the 8th of July, this work has not been completed and needs an alternative approach.

A21	Contact C3S to see whether they can host parallel data holdings in a	Chiara and Blair	Next AOPC
	unified and usable manner		

Some progress

Document prepared to explain the importance of parallel data holdings

Contacts with Enric Aguilar and Emily Wallis – some data shared but there is no repository

Contact with SC-MINT and C3S: no substantive progress. Meetings held but no concrete plans or follow-on activities

A25	GCOS 143: Blair is going to review and check whether this is now	Blair	October 2023
	captured within other WMO publications		

**Blair**: 143 is largely satellite-based and could do with a review from someone with expertise in that field, but it is fairly general and on an initial reading not obviously outdated. Nor is there any meaningful overlap with the Guide to Climatological Practices.

#### Stephan (29/04):

Suggest to start with the **hypothesis that it is no longer needed** since it has served a purpose, especially in the satellite community (see eg. Documents | CEOS | Committee on Earth Observation Satellites) and has been superseded by more recent, refined guidance material

Can we find evidence for this? In

- 1. The GCOS IP 2022 (Terminology for FCDR etc)
- 2. Papers such as Hollmann et al. (2013, https://doi.org/10.1175/BAMS-D-11-00254.1), Wooliams et al. (Applying Metrological Techniques to Satellite Fundamental Climate Data Records IOPscience) and references
- 3. WMO WIGOS manuals, Guides to Climatological practices or successor docs where GCOS-143 may have been mainstreamed?

# Ask the "user" community such as WG Climate or AOPC whether they believe the document needs an update September 2024

Blair – I think the key point here is the '12 needs' table in GCOS-143, this is not really covered in either WIGOS or the Guide)

A26	GCOS 127: Blair is going to review and check whether WMO is	Blair	October 2023
	planning to publish a guidance.		

#### September 2024

**Blair**: GCOS 127 covers guidance for compiling CLIMAT reports. WMO is currently developing (more slowly than hoped) guidelines around the implementation of the daily CLIMAT, once these are available we will be in a position to reassess whether an update to GCOS 127 is needed or whether WMO documentation is sufficient.

Propose no action for now and reassess once WMO daily CLIMAT guidance is available

A19	Scope out a draft of an ECV product for UV-radiation:	Paolo	Hold until decision on rationalization
	Paolo proposed to go back to Joanna and report that we need an ECV product related to radiation and a better justification for making it an ECV product.		

Do we want to keep this action for the future?