

ГЛОБАЛЬНАЯ СИСТЕМА
НАБЛЮДЕНИЙ ЗА КЛИМАТОМ
НЕУСТАННО СЛЕДИМ ЗА КЛИМАТОМ

SYSTÈME MONDIAL
D'OBSERVATION DU CLIMAT
NOUS VEILLONS SUR LE CLIMAT

النظام العالمي
لرصد المناخ
لنضع المناخ نصب أعيننا

全球气候观测系统
密切监视气候

SISTEMA MUNDIAL
DE OBSERVACION DEL CLIMA
SIEMPRE VIGILANDO EL CLIMA

GLOBAL CLIMATE
OBSERVING SYSTEM
KEEPING WATCH OVER OUR CLIMATE

7.9.1&7.9.2 Decisions

31st Session of the GCOS Steering Committee *Geneva, 2-5/07/2024*

Caterina Tassone



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7.9.1 – Addendum to GCOS-245 (Requirements)

In 2022 GCOS published the GCOS Implementation Plan and the ECV Requirements (GCOS-245).

The introduction provides the definition of the criteria for the requirements (spatial resolution, temporal resolution, uncertainty, stability, timeliness) and a definition for the 3 values of goal, breakthrough and threshold, BUT **It fails to describe how these requirements should be used and the fact that the requirements are technology free and cannot be met by means of a single observing method. This lack of explanation has resulted in confusion within the community and in some cases the requirements were misinterpreted.**

For some of the requirements there are revisions available. For example:

- Requirements for snow have since been updated by the community;
- Relative humidity in the atmosphere: requirements are very strict, and this has led to problems of interpretation during the last Upper-Air Comparison --→ extra explanation and reference need to be added to avoid misunderstanding

Next document with the ECV requirements will be published together with the GCOS IP in 2028--→ suggestion by the GCOS Sec and the GCOS Panel's chair is to update the document (light touch)

7.9.1 – Addendum to GCOS-245 (Requirements)

The GCOS Steering Committee is asked to consider the update of the GCOS-2451 for the ECV Requirements

DRAFT DECISION (x)

The GCOS Steering Committee decides that:

1. The GCOS Secretariat will update the GCOS-245 to include a revised introduction containing better explanations on how to interpret the requirements and targeted updates of some of the ECV requirements.
2. The GCOS Secretariat will produce a draft of this update **by November 2024**.
3. The GCOS SC Chair and the Panel chairs will revise the update.
4. The updated version of the GCOS-245 will be published by **December 2024**.

7.9.2 – GCOS co-authoring article(s)

GCOS Secretariat has been approached by Dr. Jean-Philippe Montillet (Physikalisch-Meteorologische Observatorium Davos, Switzerland) with the request to co-author a paper on promoting novel techniques (e.g., machine/deep learning) to process big datasets for the purpose of monitoring essential climate variables

Tentative Title (TBD):

Global Climate Observing System (GCOS): Enhancing Global Climate Understanding and Informed Climate Actions

Or

GCOS: Bridging Climate Science and Policy Towards Climate Resilience

Or

Timely and adequate spatiotemporal monitoring of climate-induced hazards using satellite observations with plausible novel processing

Outline: [DEC 7.9.2 SC-31 coauthoring-specific.docx](#)

7.9.2 – GCOS co-authoring article(s)

The Steering Committee is asked to provide advice to the GCOS Secretariat on how to answer this request.

DRAFT DECISION (x)

The Steering Committee decides that the GCOS Secretariat **will/will NOT** collaborate with Dr. Jean-Philippe Montillet on an article with the outline as proposed below.

Additional Request – Advice on how to respond to this type of requests in general.

We need to provide a fair answer that can eventually also be explained

Consult with the GCOS Chairs? With the Steering Committee? Timeline?

Thank you!



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