

ГЛОБАЛЬНАЯ СИСТЕМА
НАБЛЮДЕНИЙ ЗА КЛИМАТОМ
НЕУСТАЙНО 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

Update on the GCOS work on the Climate Data Centers (item 7.3)

31st Session of the GCOS Steering Committee

Geneva, 2-5/07/2024

A. Bombelli, GCOS Sec



**GLOBAL CLIMATE
OBSERVING SYSTEM**

KEEPING WATCH OVER OUR CLIMATE



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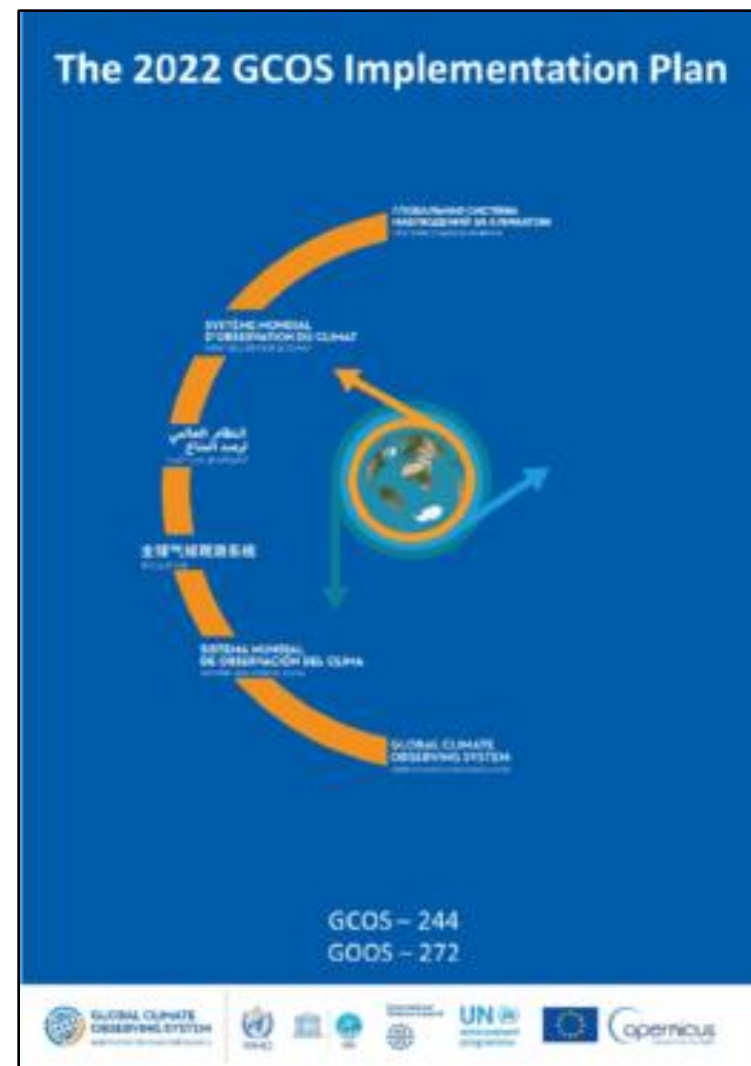


Background

GCOS Implementation Plan

- Action D1 “Define governance and requirements for Global Climate Data Centres”
 - Activity D1.1 “Draft requirements for the activities of Global Climate Data Centres and identify the relevant internationally agreed standards”

Work initiated to identify a set of requirements on processing, quality controlling, archiving, and distributing climate-related observations, that are feasible for the climate data centers with global-scale data holdings.



Cross-Panel Group on Climate Data Centers

GCOS Joint Panels Meeting, Bonn, 26-30 June 2023

Participants were representatives of:

- AOPC, OOPC and TOPC
- WMO Data and Information Management Division
- various data centers and specialised climate archives: GTN-H; GTN-P; EUMETSAT; C3S; NCEI; IQUOD; GRDC; Global Ocean database; RCC; NMHS.

The group decided:

- To use the term 'data-repository' rather than data-center;
- To consider also regional/national (not only global) data-centers for some ECVs;
- To use the existing CoreTrustSeal requirements as a reference process for certification (needed for the WDS – World Data System – membership);
- That the data repositories represented at that meeting will undergo a self-assessment using the CoreTrustSeal requirements process.



CoreTrustSeal preliminary assessment

Online meeting, 30/04/2024

Main conclusions:

- assessing the data centers against the CTS requirements is a useful exercise to identify and address different data management issues
- however, it is not easy to fulfil all the 16 CTS requirements and obtain the related certification
- support would be required for the application process, especially for small data centers

Alternative options could be explored: e.g. a GCOS recognition as a simplified process tailored to climate data centers needs.

The WMO Stewardship Maturity Matrix for Climate Data should also be considered and GCOS should promote the consideration of climate data management needs in the WMO process for data centers.

The screenshot shows a Zoom meeting interface. The title bar reads 'GCOS Working Group Objective'. The main content area displays the following text:

Main objective:

Action D1: Define governance and requirements for Global Climate Data Centres

1. Draft requirements for the activities of Global Climate Data Centres and identify the relevant internationally agreed standards.
2. Develop any new standards as required.
3. Implement the agreed-upon requirements at all global data centres.
4. Advocate for implementation of the WMO Unified Data Policy to foster a free and unrestricted exchange of available data.

Widen the objectives to other GCOS IP Actions under the Theme D - Managing Data?

At the bottom of the meeting window, there are logos for GCOS, UNESCO, and the UN Environment Programme. The meeting title 'GCOS Data Group - online meeting 30/04/2024' is visible in the bottom right corner. A vertical sidebar on the right shows video thumbnails for participants: Simon Mischel (GRDC), Isabelle Gärper, Rainer, Caterina T., Antonella, Eileen Mar..., Stefan Kern, Yeji Kim, and Tim Oakley. At the bottom of the sidebar, there are icons for 'ID' and '+4'.

Proposed way forward

- a) Mapping exercise: producing a matrix across the 16 CTS requirements to rank them according to the difficulties vs their importance for climate data centers.
- b) Tiered approach: different (e.g. 3) categories of requirements, could be defined. The highest category could match the requirements needed for the CTS certification. Lower categories will have a reduced number of easier requirements. A data center will apply for the category that best suits their size, capacity, mandate and other needs.
- c) Involve climate data users.



**Comments and guidance from
the GCOS Steering Committee?**

Thank you!



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