

3RD GCOS JOINT PANELS MEETING, ECMWF, BONN, GERMANY, 26-30 JUNE 2023

Cross Panel Group "ECVs and CIDs"

Session 1: Tuesday 27 June - 09:00-10:30

Session 2: Thursday 29 June - 11:00-13:00

Lead(s): Thelma Krug

Chair(s): Thelma Krug

Secretariat Support: Antonio Bombelli

Background

GCOS IP Action F1: Responding to user needs for higher resolution, near real time data. Activity F1.1: Identify the higher resolution observations of ECVs to support the Climatic Impact-Drivers (CIDs) identified in the IPCC AR6 and develop plans to address the priority needs.

CIDs are physical climate system conditions (e.g., means, events, extremes) that affect an element of society or ecosystems, having impacts on human or ecological systems.

Improved high-resolution and near-real-time ECV data will allow improved understanding of CIDs.

Background Material:

- [IPCC AR 6, WG1: The Physical Science Basis, Chapter 12](#)
- [GCOS-IP 2022, Action F1](#)
- [CID Summary](#)

Importance of cross panel work

Climate impacts, extremes and consequent adaptation are typically cross-domain events (ranging from causes to impacts), and the needed spatial and temporal resolution, as well as timeliness, for observations may differ across domains.

Expected Outcomes

- In Bonn: i) identify ECVs relevant to support the CIDs (starting with a subset of CIDs) and start discussing the required improvements; ii) refine the longer-term outcomes (see below) and draft a roadmap to achieve them in the next 3-4 years.
- Longer term (tentative – to be discussed in Bonn): inventory of improvements to ECVs needed to inform CIDs (e.g. spatial and temporal resolution, latency, uncertainty and data stewardship) and plans for priority actions (from GCOS IP Action F1.1).

Notes: the discussion can be enlarged to review the adequacy of the current global climate observations to address adaptation and extremes monitoring.

Running of the session

- Introduce the CIDs concept, share the background material, including the already prepared ECVs-CIDs tables, and explain the objective (including the expected outcomes) of the session and how it is organized (30')
- Participants can be divided in small sub-groups (indicatively 3), depending on their field of expertise, to address one CID-table per sub-group and: i) check the proposed list of ECVs; ii) review the current ECVs requirements and assess if they are adequate to address CIDs;

- iii) discuss the availability of high-resolution datasets (temporal and spatial resolution and timeliness) (1h30)
- A “plenary” discussion will follow to confrontate the outcomes of each group, identify common gaps and work collaboratively on a roadmap to address them (1h)
- Prepare report back to plenary (1-2 slides) showing the results of the discussion against the expected outcomes, and the commitments from the panels, with actions along a timeline and assigned responsibilities (30')