

# GCOS Participation to SBSTA-COP (item 11.2)

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

A. Bombelli, GCOS Sec





KEEPING WATCH OVER OUR CLIMATE

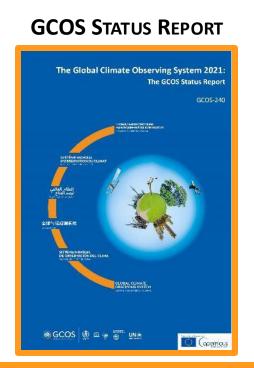








# GCOS Reporting to UNFCCC



Assess if the status of the observing system for climate meets those requirements

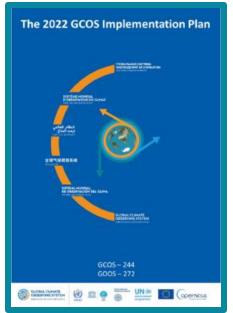
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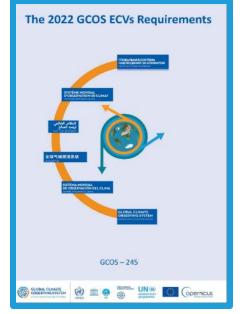
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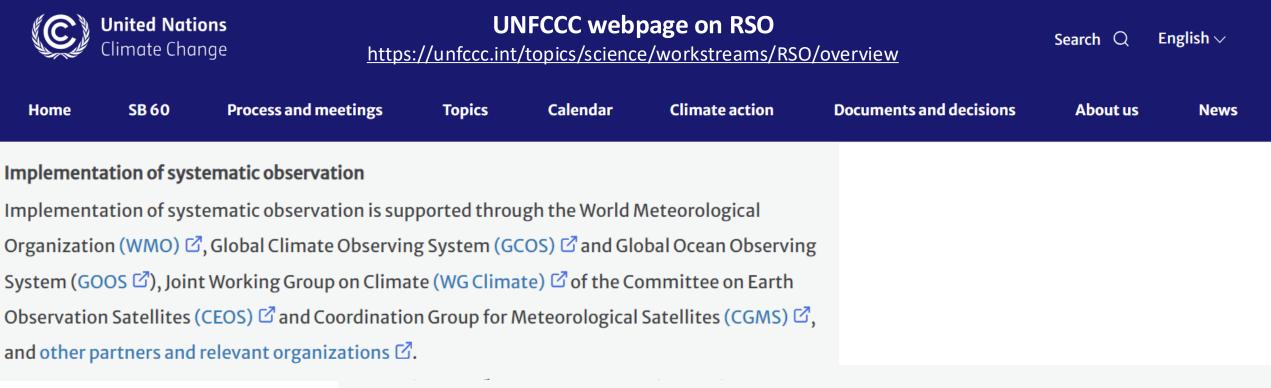
Propose actions to address gaps and improve the observing system for climate Identify what we need to measure (ECVs) and their observational requirements



#### **GCOS ECVs REQUIREMENTS**

GCOS SC-31, Geneva, 2-5 July 2024

# GCOS and UNFCCC©



#### Mandatory for Annex I Parties Voluntary for non Annex I



#### UNFCCC reporting guidelines on global climate change observing systems

 Parties provide information on research and systematic observation in their
 National Communications. In regards to research this includes national and cooperative research activities and their contributions to climate science, as well as emerging research needs and priorities. In regards to systematic observation, this includes, detailed technical reports on the status of their national systematic observation in line with the guidelines in decision 11/CP.13, and in consideration of the latest GCOS Implementation plan with its updated list of ECVs.

GCOS SC-31, Geneva, 2-5 July 2024

# GCOS and UNFCCC

United Nations <a href="https://unfccc.int/sites/default/files/resource/Mandates_systematic_%">https://unfccc.int/sites/default/files/resource/Mandates_systematic_%</a> Climate ChangeSearch QEnglish \screw								
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### GCOS at COP27, Sharm el-Sheikh, 2022

#### **Earth Information Day 2022**

H. Dolman, GCOS Chair

"Keeping Watch Over Our Climate: New Recommendations From The Global Climate Observing System"



09 Nov. 2022

A. Rea, GCOS Director "Updates on the state of the climate and the global climate observing system - 2022 GCOS Implementation Plan"

> Anthony Rea WMO Infrastructure Dept.



### GCOS 2022 IP – side event 11 Nov. 2022





### GCOS at COP27, Sharm el-Sheikh, 2022

### Sharm el-Sheikh Implementation Plan VII. Early warning and systematic observation

26. (the Conference of Parties) Emphasizes the <u>need to address</u> <u>existing gaps in the global climate observing system</u>, particularly in developing countries, and recognizes [...] the need to <u>enhance</u> <u>coordination of activities by the systematic observation</u> community and the ability to provide useful and actionable climate information for mitigation, adaptation and early warning systems



## GCOS at COP27, Sharm el-Sheikh, 2022

### SBSTA - Research and systematic observation

Implementation of the Global Climate Observing System

<u>Welcomes the 2022 Global Climate Observing System Implementation Plan and the 2022</u> <u>Global Climate Observing System essential climate variables requirements and</u> <u>encourages Parties and relevant organizations, as appropriate, to work towards the</u> <u>implementation of the 2022 Global Climate Observing System Implementation Plan;</u>

Emphasizes the <u>need to address systematic observation gaps</u>, particularly in developing countries and for ocean, mountain, desert and polar regions and the cryosphere in order to improve understanding of climate change, climate-related risks and tipping points, and adaptation limits and to ensure enhanced delivery of climate services and early warning systems;

Notes with concern the existing gaps in the global climate observing system and recognizes the need to enhance the coordination of activities by the systematic observation community and improve its ability to provide useful and actionable climate information for mitigation, adaptation and early warning systems, as well as information to enable understanding of adaptation limits and of attribution of extreme events.

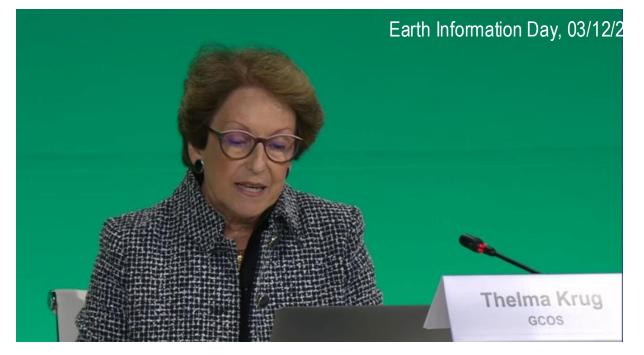


Sharm el-Sheikh, 6-20 November 2022

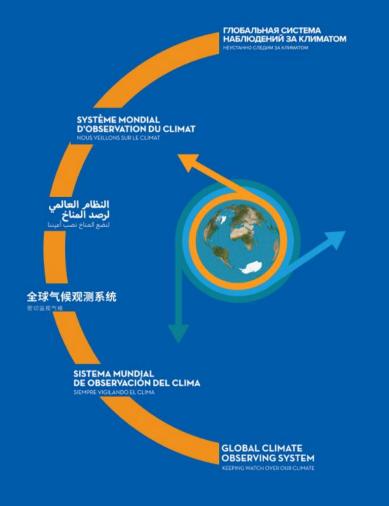
## GCOS at UNFCCC COP28, UAE, 2023

- GCOS Statement presented at SBSTA-59 Plenary
- GCOS actively involved in the organization of the Earth Information Day

#### SB 59 RSO Conclusions



- SBSTA recognized the vital importance of robust Earth observation systems and related longterm data records for enhanced understanding of changes in the global climate system and their attribution, mitigation and adaptation action, and early warning systems.
- It <u>encouraged Parties and relevant organizations</u> to further strengthen their provision of <u>support to the systematic observation community</u>.



GCOS Participation to SBSTA-COP (item 11.2) Report from SBSTA-60, Bonn, June 2024

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

A. Bombelli, GCOS Sec





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# GCOS Participation in SBSTA60, Bonn, June 2024

#### SBSTA60 – GCOS Statement in the Plenary

Highlighted the significant evolution of the climate observations capabilities in the last  $\simeq$ 20 years, and the consequent necessity to update:

- the GCOS Climate Monitoring Principles (1999-2003)
- the Reporting guidelines on global climate change observing systems (2007)
- the GCOS Status Report (2021): need to start working on it (under request by SBSTA at COP30, 2025) on 2026 in order to submit it to COP32 (2027).

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"As greater and greater challenges await us, GCOS will need the support of its partners organizations and the Parties to the UNFCCC in order to tackle them. GCOS is looking forward to continue working with all of you to ensure a sustainable future for generations to come" (GCOS Statement, SBSTA60)

# GCOS Participation in SBSTA60, Bonn, June 2024

### SBSTA60 – Draft Conclusions on Research and Systematic Observation

(FCCC/SBSTA/2024/L.9)

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 The SBSTA noted with appreciation the statements delivered at the opening plenary of this session by representatives of GCOS, IOC, IPCC, WCRP, and WMO\*.



<sup>16</sup>th Research Dialogue

3. The SBSTA emphasized the need to ensure the continuity and sustainability of research and systematic observation for data availability, which are fundamental for research, including for the **Global Climate Observing System**, and encouraged enhanced support in that regard.

### GCOS Participation in SBSTA60 – Behind the scenes

Email exchange between GCOS Chair and SBSTA Chair GCOS presentation at the Climate Policy Advisors meeting Interactions with national delegates: Brazil, Chile, Germany, Ireland, Italy, Luxemburg, Switzerland

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# Planning COP29 / SBSTA61

#### Pushing forward the GCOS activities under the UNFCCC agenda

What	How
GCOS Statement	Make explicit (with the right wording) the need to support GCOS
	and to update: GCOS Climate Monitoring Principles, Reporting
	Guidelines for Climate Observations, GCOS Status Report.
Earth Information Day	<ul> <li>Actively contribute to its organization (deadline for inputs: 30 August)</li> </ul>
	<ul> <li>Give a presentation highlighting same points as above and the possible GCOS contribution to Adaptation (depending on the SC discussion)</li> </ul>
Joint event with WGC?	To be discussed with WGC and SC
<b>GCOS Delegation</b>	GCOS Chair + 1 from GCOS Sec

#### Outcomes: clear SBSTA requests to GCOS in the COP conclusions

## Thank you!





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Intergovernmental Oceanographic Commission







Supported by the European Union



#### **Reporting on global observing systems for climate**

The Conference of the Parties,

Recalling decisions 4/CP.5, 5/CP.5, 11/CP.9 and 5/CP.10,

*Noting* the need to revise the "UNFCCC reporting guidelines on global climate change observing systems"<sup>1</sup> in order to reflect the priorities of the Global Climate Observing System implementation plan and incorporate the reporting on essential climate variables,

Recognizing the proposals made by the secretariat of the Global Climate Observing System,

*Having considered* the recommendations of the Subsidiary Body for Scientific and Technological Advice on this matter at its twenty-third, twenty-fifth and twenty-seventh sessions,<sup>2</sup>

1. *Adopts* the revised UNFCCC reporting guidelines on global climate change observing systems as contained in the annex to this decision;<sup>3</sup>

2. *Decides* that these revised guidelines should take effect immediately for the preparation of detailed technical reports on systematic observations in accordance with the provisions of decisions 4/CP.5 and 5/CP.5;

3. *Requests* Parties included in Annex I to the Convention to continue providing such reports in conjunction with their national communications;

4. *Invites* Parties not included in Annex I to the Convention to provide such reports on a voluntary basis.

8<sup>th</sup> plenary meeting 14–15 December 2007