

Report on the activities of the CIPM Sectorial Task Group Climate Change and Environment

Dolores del Campo

March 2024

Bureau
International des
Poids et
Mesures



STG CENV – Core group (interdisciplinary) participants

Name	Organization	BIPM-WMO Workshop SC	CC	RMO Group
D. Del Campo	CIPM-BIPM	Yes	CCT	EURAMET -EMN Climate
JT. Janssen	CIPM-BIPM		CCRI	
R. Wielgosz	BIPM	Yes	CCQM	
E. Woolliams	NPL	Yes	CCPR	EURAMET -EMN Climate
J. Whetstone	NIST	Yes		SIM
H. Lin	NIM	Yes		APMP – Climate and Clean Air
S. Mishra	NPLI			APMP
F. Madonna	GCOS	Yes		
B. Forgan	WMO	Yes		
I. Ruedi/S. Moreno	WMO	Yes	CCPR	
E. Flores	BIPM	Yes	Executive Secretary to Group	

STG CENV – Activities



Follow up of the BIPM-WMO workshop recommendations:

Theme 1	Topic	Recommendations	Suggestions provided
	1A: Atmosphere Physics and Chemistry	6	6
	1B: Oceans and Hydrology	11	11
	1C: Earth Energy Balance	11	11
	1D: Biosphere Monitoring	13	3
	1E: Cryosphere Monitoring	27	1
	2A: Accuracy requirements for atmospheric composition measurements across economic sectors, and temporal ...	30	30
Theme 2	2B: State of play in integrated approaches for advanced GHG emission..	16	13
	2C: Novel GHG concentration and flux methods and sensors	8	6
	2D: Strengthening the linkage of remote sensing GHG concentration...	6	3

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1st Stakeholder meeting of the CIPM Sectorial Task Group on Climate Change and Environment (16-18 September 2024):

The meeting will focus on progress on recommendations and new initiatives with an open call (launched the 1st March) for abstracts for presentations and posters addressing:

- Metrology in support of the physical science basis of climate change and climate Observations
- Metrology as an integral component of operational systems to estimate greenhouse gas emissions based on accurate measurements and analyses



[Deadline for abstracts submission 31st May](#)

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The expected outcomes are:

- An overview of activities that are being undertaken to address recommendations
- Identification of the organizations, committees and groups that are coordinating activities to address the recommendations
- Identification of the recommendations where no activity has been initiated and reasons why it has not been done.
- An overview of new collaborative activities initiated between the Observation and Metrology communities
- Identification of new initiatives that could be progressed through collaborative actions between the Observation and Metrology communities, and the groups that could coordinate this work
- Identification of any new actions to be undertaken by the CIPM-STG-CENV, with a focus on those actions that cannot be addressed by existing structures, which would enable progress to be made in addressing the BIPM-WMO 2022 workshop recommendations and new initiatives.



COP28- First experience:

BIPM has the status of Observer in the COP meetings.

- BIPM has access to high-level state representative meetings BUT science is not the focus of the meetings, high-level negotiations are about climate finance and support mechanisms
- There are more scientific platforms: **SBSTA** (Subsidiary Body for Scientific and Technological Advice) and **IPCC** (Intergovernmental Panel on Climate Change)



COP28- Recommendations:

- To foster the engagement of the NMIs with their national delegations to include them among their representatives and to organize events to highlight the importance of metrology/ QI for climate change.
- The application of BIPM for official IPCC observership and prioritize its attendance and participation in IPCC and SBSTA meetings.
- To take advantage of the BIPM's long-standing liaison organisations (WMO, ISO, IAEA and UNIDO) to co-organize pavilion events and side events.

Questions/comments?