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Expert Team on Data Requirements  
for Climate Services (ET-DRC),  
13 July 2022, 13:00 – 15:00 Geneva time

Original: English

## Agenda

1. Upcoming SC-CLI-5 scheduled for the end of August (Christina & Denis)
2. WMO baselines and reference periods (Peer)
3. CLINO collection status and next step (Peer)
4. Rescue Data project update (Rob)
5. Collaboration with INFCOM (Et-DRC/ET-IM) (Denis)
6. WMO Climate Data Catalogue beta version update and WIS 2 (Christina)
7. Assessment of Global & Climate Indicators datasets (Ali)
8. Merging of SMM-CD&SMM-CD\_NRP guidance booklets project (Robert Dun/William/Writing team)
9. DAYCLI message (Denis)
10. Transversal: TT-CDM (Denis), OpenCDMS (William/Peer)
11. WMO-No. 1131 (William & Denis)
12. Any Other Business
13. Next meetings (17 August 14:00-16:00)

### Participants:

1	Mr Peer Hechler	7	Mr Robert Dunn		
2	Mr Ali Eddenjal	8	Mr William Wright		
3	Mr Ulrich Looser	9	Mr Jose Guijarro		
4	Ms Christina Lief	10	Mr Denis Stuber		
5	Mr Rob Allan				
6	Mr Markus Ziese				

## 1. Upcoming SC-CLI-5 scheduled for August

The Fourth meeting of the Standing Committee on Climate Services (SC-CLI-4, 5-7 April 2022) is available at: <https://community.wmo.int/activity-areas/climate/meetings/fourth-meeting-standing-committee-climate-services-sc-cli-4>

## 2. WMO baselines and reference periods

ET CMA is about to finalise a discussion paper on the use of baselines for climate monitoring and climate change assessment. The paper, specifically, discusses the use of the Climatological Standard Normals (currently 1991-2020, to be updated every ten years), the WMO Reference Period for Climate Change Assessment (1961-1990, fixed) and the pre-industrial period 1850-1900. The finalised discussion paper will serve as input for a brief guidance paper to be submitted to SERCOM-II in October. The latter paper may also advise on the use of Normals in the CLIMAT message; a recommendation needs to be developed by ET DRC (proposal: use of current Climatological Standard Normal upon update for all CLIMAT anomaly

parameters to avoid use of different Normals in the same message; to be discussed).

There is an ongoing debate about the Guidance on these to be presented to Members. Currently the proposition is to use the most recent CLINO period (1991-2020) for ALL climate services, with a *recommendation* to use 1961-90 as the current base period for the long-term tracking of climate anomalies. I have respectfully dissented, noting the need for a fixed reference period for tracking anomalies, although the case can be made that this fixed period might be updated to incorporate advances in observational technologies. Whatever, the Normals period should always be quoted. (William)

*Also recommendations for the CLIMAT message to be addressed to members about which Normals to share.*

### **3. CLINO collection status and next step**

EC-75 decided on measures to accelerate CLINO collection. Definite deadline for Member submissions: 31 December 2022. Global dataset consolidation and quality control by NCEI from January to June 2023. Publication in July/August 2023. Second round of online consultations incl. tool introduction done (> 400 registered participants). WMO Regional Offices receive monthly updates of submissions per Region for individual follow up. Short presentations planned at upcoming SERCOM and INFCOM sessions. Current submission status: 70 out of 193 Members submitted.

Peer created new contacts for regional association. Denis request contact list for future contacts as there is presently no list for country contacts.

### **4. Rescue Data project update**

Rob Allan gave a quick up that effort the I-DARE and Copernicus data rescue server merger and said it was proceeding.

### **5. Collaboration with INFCOM (ET-DRC/ET-IM)**

Meeting with the Expert Team on Information Management (ET-IM) on the 16 June 2022. Chaired by Ge Peng and having also in the team Axel, William and Rachid Sebbari. A full meeting to plan in order to collaborate on different tasks: Standard on data rescue exchange, OpenCDMS, Tools for collecting data from members (Normals, WWR, etc.), Tools for BUFR, WIS 2.0, METCE, WIS DAR etc. Meeting Presentation available on the ET-DRC Wiki (<https://github.com/ET-DRC/Home/wiki>)

Also, on the 22 June WIS 2.0 "Introduction to Industry Workshop". All presentations available at <https://community.wmo.int/meetings/wis2-introduction-industry-workshop>

### **6. WMO Climate Data Catalogue beta version update and WIS 2**

New agreement was put in place with KNMI to continue development of the WMO Climate Data Catalog which will include regional and national datasets from the ClimSA project. New version to be published by the end of August prior to the SC-CLI-5.

Meeting has taken place between ET-DRC WIS2, Enrico, David, Remy, Denis, Christina, and Peer on the WIS2 and the Catalog. A follow up meeting will be held with KNMI Marlies van der Schee on Friday July 29<sup>th</sup> 2022 on the topic of the Catalog development and WIS2.

## 7. Assessment of Global & Climate Indicators datasets

Ali will be heading the effort to assess the newly added global datasets with the SMM-CD self-assessment template. This will involve contacting the data manager at the data centre where the data are located and perform the self-assessment. The ET-DRC will then evaluate the assessment before publication in the catalog.

## 8. Merging of SMM-CD&SMM-CD\_NRP guidance booklets project

ET-DRC writing team under the lead of Robert Dunn has completed a draft to be finalized on July 29<sup>th</sup>.

## 9. DAYCLI message

15 June: Meeting with Peru

#	COUNTRY	send invitation to participate to the test	Files received	Files coded and decoded by TT-TDCF	the decoded BUFR into ASCII sent to NMHS	Checks by the NMHS
1	ALGERIA	14/04/2022	21/04/2022	25/04/2022	27/04/2022	24/05/2022
2	ARGENTINA	16/02/2022	04/03/2022	24/05/2022	25/05/2022	03/06/2022
3	BRAZIL	16/02/2022	14/03/2022	14/03/2022	14/03/2022	23/03/2022
4	CHILE	20/04/2022	27/04/2022	24/05/2022	02/06/2022	
5	ESTONIA	16/02/2022	31/03/2022	05/04/2022	11/04/2022	08/06/2022
6	FINLAND	16/02/2022	In progress			
7	FRANCE	OK	OK	OK	OK	OK
8	GERMANY	16/02/2022	30/03/2022	12/04/2022		26/04/2022
9	INDIA	16/02/2022				
10	IRELAND	16/02/2022				
11	JAPAN	17/02/2022	Yes	06/04/2022	06/04/2022	06/04/2022
12	LIBYA	16/02/2022	15/03/2022	In progress		
13	LUXEMBOURG	16/02/2022	22/03/2022	23/03/2022	23/03/2022	25/03/2022
14	MOROCCO	11/02/2022				
15	PARAGUAY	20/04/2022				
16	PERU	20/04/2022				
17	RWANDA	16/02/2022				
18	SPAIN	16/02/2022	01/04/2022	05/04/2022	11/04/2022	01/07/2022
19	SWITZERLAND	16/02/2022	In progress	directly in BUFR format		
20	URUGUAY	20/04/2022				
21	USA	08/11/2021	22/12/2021	08/02/2022	10/02/2022	18/02/2022

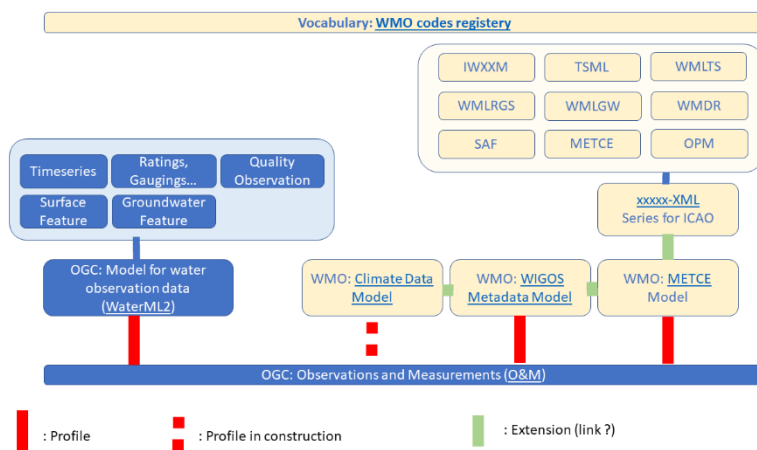
**30 June 2022:** Meeting with WMO Secretariat (Peer, Christina, William, Enrico Fucile, David Inglis Berry, Denis) on the next steps for the DAYCLI message:

- ET DRC provides draft guidance material for DAYCLI (material exist from Denis and William works on the handbook)
- WMO Secretariat draft a letter to Members with the message that the BUFR sequence is operational and draft guidance material is available and the request/invite to submit DAYCLI ... (Dave and Peer)
- ET DRC produces a set of draft ToR for global data centres re DAYCLI jointly with GCOS
- Draft paragraph into the SERCOM decision on climate data that requests INFCOM to work with SERCOM on reflecting DAYCLI appropriately in Technical Regulations and setting up global data centres. (Peer)

## 10. Transversal TT-CDM and OpenCDMS

### TT-CDM

The next meeting is waiting for the input of Dave Berry with a data model proposition.



The Task-Team on Climate Data Model (TT-CDM) should define the WMO Standard on climate data model. The TT-CDM has already met 4 times. Most of their tasks are listed here: <https://github.com/wmo-im/tt-cdm/wiki/Prior-work>

### OpenCDMS (William):

- Meeting on July 5<sup>th</sup> 2022 with CLIDE.
- OpenCDMS is being designed to be WIS2 compliant.
- Will need to be supported by Congress to go forward. Working on business case to support moving forward. Draft implementation in 7 ClimSA pilot countries in 2023-2025. Need a communication plan including upload instrument data such as AWS data.
- 6 countries can access Clide with the Cloud. Some countries don't trust the Cloud and sometime there is not enough bandwidth to upload data.
- Clide developing a QC function
- Clidex add-on to Clide provides services including Hydro functionalities.

## 11.WMO-No. 1131:

All meetings from the Reading Committee (Axel, Uli, William, Peer, Dave, Washington, Johanna, Nirina, etc.) Also need to engage the Hydro and Marine communities.

- 7 July 2022: WMO No 1131 Revision Committee
- 24 June 2022: Reading Committee
- 10 June 2022: Reading Committee

All meetings are available on the ET-DRC WMO-No. 1131 [Wiki: https://github.com/ET-DRC/WMO-No.1131/wiki](https://github.com/ET-DRC/WMO-No.1131/wiki)

Given the short timeframe to revise WMO No 1131, the Committee decided to concentrate primarily on Sections 3, 4 and 5 from the 2014 version of WMO No 1131, as these are the most consequential in terms of Required/Recommended components for data management, and/or are the most affected by changes to Guidance, technical regulations (especially WMO No 1238), new requirements, and other developments since 2014. Updates to other Sections will be considered as time allows. The focus so far has been on Chapter 4 – Time-Series data. (William)

## 12.Others

(William) WMO has decided to freeze changes to WMO No 1238, aka the *Manual on High Quality Global Data Management Framework for Climate*, because of a decision to try to better reflect the climate-relevant components of other Manuals in a consistent manner. That said, my understanding is that the current proposed changes to WMO No 1238, which I worked on last year, and were mildly edited by the WMO Secretariat, would go forward to SERCOM, INFCOM and then Congress. The Guidance Booklet for the SMM-CD & SMM-CD\_NPR will be added to the manual. ET-DRC writing team lead by Robert Dun is finalizing the updated version.

(William) Publication #49. Peer advises not to work on this publication for the moment. In the future work needs to be done with INFCOM on consolidation of publications. Denis noted the lack of climate information in this publication. This should be addressed in the SC-CLI-5 report. Peer can then take it from there in the secretariat. Jose mentioned that in basic information annexes there is not enough information on climatology.

## 13.Next Meetings

- ✓ The in-person ET-DRC meeting is canceled for September 2022
- ✓ **Next ET-DRC meeting: 17 August 2022**
- ✓ 17-21 October 2022, SERCOM-2 Plenary (Hybrid)
- ✓ 24-28 October 2022, INFCOM-2 Plenary Technical Conference (Hybrid)
- ✓ 17-19 October 2022, 2<sup>nd</sup> Climate Observation Conference (2 talks from ET-DRC)
- ✓ 27 February - 3 March 2023, EC-76
- ✓ 22May- 2 June 2023: World Meteorological Congress, Cg-19
- ✓ 5-6 June 2023, EC-77
- ✓ Possible ET-DRC meeting prior to the Cg-19 in early 2023? (William)