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

Original: English

## Agenda

1. SC-CLI-4 report
2. WMO meeting on baselines and reference periods
3. CLINO collection status and next step
4. World Weather Record collection, outcome of current discussion
5. Updates on ET DRC-relevant SERCOM/INFCOM documents
6. Strengthening collaboration with INFCOM
7. WMO Climate Data Catalogue beta version update
8. Assessment of Global & Climate Indicators datasets
9. Merging of SMM-CD&SMM-CD\_NRP guidance booklets project
10. DAYCLI message
11. International Data Quality Exchange
12. Transversal: TT-CDM, OpenCDMS
13. WMO-No. 1131
14. Any Other Business
15. Next meetings

### Participants:

1	Mr Peer Hechler	7	Mr Robert Dunn	13	Mr Ali Eddenjal
2	Mr Rachid Sebbari	8	Ms Xiaolan Wang	14	Mr Markus Donat
3	Mr Ulrich Looser	9	Mr Jose Guijarro	15	Mr Reinaldo Silveira
4	Ms Christina Lief	10	Mr Denis Stuber		
5	Mr Rob Allan	11	Mr William Wright		
6	Mr Markus Ziese	12	Ms Manola Brunet		

## 1. SC-CLI-4 report

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

## 2. Points 2 to 6 of the agenda

Were presented by Peer, and the main messages are:

The Expert Team on Climate Monitoring and Assessment (ET-CMA) is going to put forward a final proposal to Members on the use of the Climatological Standard Normal (1991-2020, to be updated every ten years: 2001-2030, 2011-2040 etc) and the WMO Reference Period for climate change assessment (1961-1990, fix) in WMO flagship reports and elsewhere.

So far less than 35% of WMO members have sent their Normals to WMO. A second round of online CLINO consultations are planned (28-30 June 2022) and a special briefing to WMO Regional Offices will be done on 1 and 2 June 2022 to facilitate their efficient communication with Members who did not yet submit their CLINO. ET-DRC members are welcome to assist in those consultations. To register please use the following link: <https://wmo-int.zoom.us/meeting/register/tZllceqqqzluGN2vSBYYXoGYnoHx6q3LcOcQ>

The collection of the World Weather Records (focus on 2020 data plus completion of 2011-2020 decade) is postponed into 2023 to facilitate 1991-2020 CLINO collection. A proposal will be made through SERCOM to return to decadal collection of WWR.

Peer stressed the need for close collaboration with the INFCOM ET-IM and reflection of collaboration at SC-level to ensure full SERCOM and INFCOM participation in climate data-related issues.

The presentation of Peer is available here:

[https://github.com/ET-DRC/Home/blob/main/Meetings/20220525/WMO\\_Hechler\\_RO.pdf](https://github.com/ET-DRC/Home/blob/main/Meetings/20220525/WMO_Hechler_RO.pdf)

Uli suggested the need for online training modules to be developed in multiple languages.

### **3. WMO Climate Data Catalogue portal update/Assessment of Global & Climate Indicators datasets/Merging of SMM-CD&SMM-CD\_NRP Guidance Booklets for integration into the HQ-GDMFC Manual**

The WMO Climate Data Catalogue is hosted at KNMI. New WMO/KNMI agreement for development and maintenance of the Catalogue being put in place for 2022. Beta version development with KNMI and KNMI Climate Explorer developers is under way.

Latest version of spreadsheet of global, regional and national dataset assessment status is available at: <https://github.com/ET-DRC/Home/blob/main/Meetings/20220525/WMO%20Climate%20Data%20Catalogue%20Assessment%20Updates-May-26-2022.pdf>

There is a call for ET-DRC member volunteers to lead assessment of datasets still to be assessed. Christina is the lead on this. Please send her an email if you are interested in taking on one or more assessments lead.

Robert Dunn is leading writing team to merge the guidance booklets on the SMM-CD and SMM-CD\_NRP which will be integrated into the HQ-GDMFC Manual. On writing team are William, Peng, Omar and Christina. Deliverable timeline for the draft is end of June 2022.

SMM-CD and SMM-CD\_NRP templates to be added to the WMO Technical Documentation.

WMO Climate Data Catalogue link: <https://climatedata-catalogue.wmo.int> (beta version at: <https://climatedata-catalogue.wmo.int/beta/> )

### **4. DAYCLI message**

The DAYCLI template was officially adopted by WMO along with other amendments during the fast-track 2022-1 procedure on April 13, 2022. The Manual on Codes v1.2 will probably be republished with these templates by the end of the month.

The dialogue with 21 NMHSs who contributed to the specifications of the DAYCLI message is continuing.

A proposed update to the original CLIMAT Guidelines document (WMO No 1188, 2009) has been drafted, and incorporates, via highlighting, changes that will be needed to incorporate DAYCLI. The detailed requirements for DAYCLI have been incorporated into a separate document, based on the draft Guide that ET-DRC members put together over the past year or so. It incorporates things like Use Case scenarios for the proposed new flagging system. It might be helpful to include details of likely formatting errors (based on trials conducted so far with Members), as is done in WMO-TD No 1477. As lead author William will need assistance in translating the calculation methods into mathematical forms, as in WMO No 1188. This version is ready for review by the ET-DRC and/or whoever else should review. Peer recommended that retaining the existing structure of WMO No 1188, rather than a stand-alone DAYCLI Guide, is probably the most effective way to present the Guide.

## 5. International Data Quality Exchange

This part is crucial for the future. It shall be included into the main functionalities of CDMSs, and interoperable solutions. But so far, there are not enough ET-DRC resource to work on it.

The quality flagging scheme outlined in the current version of DAYCLI is a simplified version of what should evolve to become a standard for NMHS Climate Data Quality flagging. Because of some confusion about when the current ET intercessional period actually ends ("sometime in 2024" is the best we could land on) it is not clear whether this CDQ flagging Guidelines document should be addressed by the current team or added to the ToR for a subsequent team. At any rate it should be addressed at the next SERCOM meeting in November.

## 6. Transversal TT-CDM and OpenCDMS

The new 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>

Peer gave the latest news on the OpenCDMS project, and talked briefly about the WIS-in-a-Box project that provides a platform with the capabilities for NMHSs to integrate their data holdings and publish them to the WMO Information System with a plug and play capability supporting data publishing, discovery and access (<https://github.com/wmo-im/wis2box>). Test case performed in Malawi with weather station data. Next step is to test link to OpenCDMS.

Potentially valuable collaboration may be achieved regarding technology/code exchange between CliDE (who wish for better Hydrological functionality) and MCH (who lack capacity in some areas of managing atmospheric climate data/metadata). This type of functionality exchange, and perhaps the development of a code library, is pivotal to enabling an effective OpenCDMS development program. William has commenced work on a document, loosely described as a Business Case, that sets out the rationale for an extension of support for OpenCDMS at the next Congress.

## 7. WMO-No. 1131

A thorough review has been conducted by William outlining suggestions for updates based on 11 factors (can be provided on request), but including: new Guidance documents and changes in WMO Resolutions; new requirements (such as DAYCLI); expressed priorities from D & LDCs; input from Marine and Hydrological communities, among others; need to align with ET-IM Guidance, SMM-CD, etc. **This is expected to be sent to the proposed writing team within the next day or so, to be followed by discussion, task allocation, etc and then a series of online meetings to discuss progress** (this approach is being adopted with the ET-IM Guidelines document). A write-shop to conclude the document is scheduled for late September 2022.

## 8. Others

- ✓ Christina and/or William to approach Blair Trewin about evaluating the BoM Climate Record, and/or the specific ACORN-SAT (Australia's specialised surface temperature network for monitoring climate change), for the WMO Data Climate Catalogue.
- ✓ William to send draft text for inclusion in next edition of WMO No 49 (WMO Technical Regulations) to other SERCOM Climate-related Expert Teams, via Manola, for their suggested inclusions. A reminder that WMO No 49 is a very high-level document that mainly reflects the most important requirements for Members (e.g. WMO SHALL produce an Annual Statement of the Climate based on Member input). The existing version of WMO No 49 contains no climate information apart from some information on climate service roles, and the draft text to be circulated is concentrated at present only on Climate Data Management, and therefore needs broadening to climate service areas, as agreed at the April SC-Cli meeting.
- ✓ Robert, Christina and Denis to look into the possibility to submit contributions (Stewardship Maturity Matrix for Climate Data & DAYCLI) to the 2<sup>nd</sup> Climate Observation Conference (October 2022 with abstract deadline submission the 1<sup>st</sup> June 2022).

## 9. Next Meetings

- ✓ On-line CLINO consultations: 28, 29 and 30 June 2022
- ✓ 75<sup>th</sup> Executive Council: 20-24 June 2022
- ✓ The in-person ET-DRC meeting is canceled for September 2022
- ✓ **Next ET-DRC meeting: 13 July 2022**
- ✓ October 2022, SERCOM-2
- ✓ 17-19 October 2022, 2<sup>nd</sup> Climate Observation Conference
- ✓ 2023: World Meteorological Congress, Cg-19