# Expert-Team on Data Requirements for Climate Services (ET-DRC)

Kick-off meeting November 27, 2020



**WMO OMM** 

World Meteorological Organization Organisation météorologique mondiale

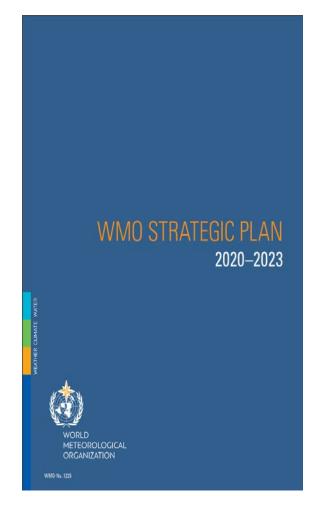
# Agenda

- WMO Strategic Plan
- Where are we in the new WMO structure?
- ET-DRC : From where it comes?
- ET-DRC : Who we are?
- ET-DRC : Deliverables?
- Other tasks
- Sub-groups and work methods



# **WMO Strategic Plan**

# LONG-TERM GOALS AND STRATEGIC OBJECTIVES ..... Goal 1: Better serve societal needs: delivering, authoritative, accessible, user-oriented and fit-for-purpose information and services ..... Goal 2: Enhance Earth system observations and predictions: Strengthening the technical foundation for the future ..... Goal 3: Advance targeted research: Leveraging leadership in science to improve understanding of the Earth system for enhanced services ..... Goal 4: Close the capacity gap on weather, climate, hydrological and related environmental services: Enhancing service delivery capacity of developing countries to ensure availability of essential information and services needed by governments, economic sectors and citizens..... Goal 5: Strategic realignment of WMO structure and programmes for effective policy- and decision-making and implementation .....



Objective 1.2 Broaden the provision of policy- and decision-supporting climate information and services



#### Where are we in the new WMO structure?

Infrastructure Commission (INFCOM):

Commission for Observation, Infrastructure and Information Systems

President: Michel JEAN (Canada)

Co-Vice-Presidents: Bruce FORGAN (Australia), Nadia PINARDI

(Italy) and City and PECORA (Italy)

Commissions Techniques de l'OMM / WMO Technical Commissions

Services Commission (SERCOM)

President: Ian LISK (United Kingdom of Great Britain and

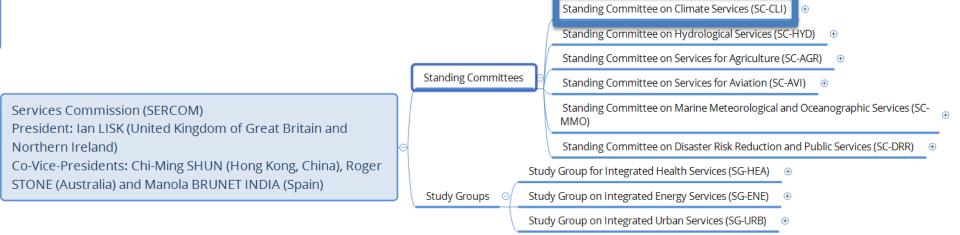
Northern Ireland)

Co-Vice-Presidents: Chi-Ming SHUN (Hong Kong, China), Roger

STONE (Australia) and Manola BRUNET INDIA (Spain)



#### Where are we in the new WMO structure?





#### Where are we in the new WMO structure?

#### TOR

 Define modern standards and good practices for climate data management including collection, exchange, archiving and rescue of historical and current data for use in climate monitoring and other climate applications, and the development of related systems and Information technology;

2) Promote international projects and initiatives for ensuring the delivery of high-quality Climate Data and their inclusion / reference in the WMO Catalogue of Climate Data.

Standing Committee on Climate Services (SC-CLI) Chair: Manola Brunet (Spain) Expert Team on Data Requirements for Climate Services (ET-DRC)
Co-chairs: Christina Lief (retired from NOAA-NCEI) USA; Denis Stuber, Meteo-France

Co-chairs: John Kennedy, Met Office, UK and Jessica Blunden, NOAA-NCEI, USA)

Expert Team on Climate Services Information System Operations (ET-CSISO) Co-chairs: Roger Pulwarty, USA and Rupar Kumar Kolli, India

Expert Team on Climate Information for Decision-making (ET-CID) Co-chairs: Lisa Alexander, AUSTRALIA and Chris Hewitt (UK)

Expert Team on Climate Monitoring and Assessment

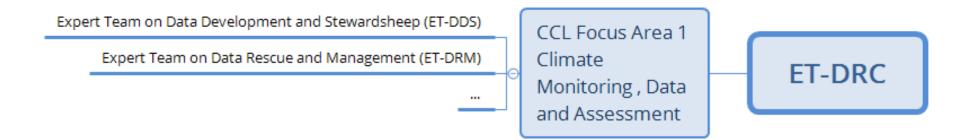
Expert Team on Capacity Development for Climate Services and Communication (ET-CDC)

Co-chairs: Wassila Thiaw (USA) and Charlotte McBride (South Africa)



Vice-Chair: Barbara Tapia (Chile)

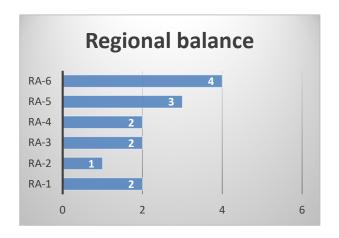
### **ET-DRC: From where it comes?**

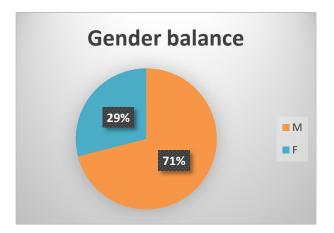




Guide WMO Members on existing and evolving climate services requirements for the collection, exchange, archiving and management of Climate Data

#### ET-DRC: 17 Members with different backgrounds and competences







Christina Lief (ret. NOAA)





**Denis Stuber** 





Peer Hechler





**Omar Baddour** 





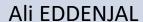






William Wright (ret. BoM)









Ge PENG







#### José A. GUIJARRO



**Lydia GATES** 







Lipeng JIANG



María SKANSI











#### **Robert ALLAN**





#### **Urip HARYOKO**





Xiaolan WANG







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#### **CDMS and Data Rescue**

Guidance and recommendations for CDMS and Data Rescue Project implementation using WMO Extra-Budgetary resources

- Maintenance and Update of the "CDMS Specifications"
   WMO-No.1131 (2014). In liaise with the necessary Teams expertise from SERCOM and INFCOM
- CDMS Monitoring (Maintenance and update of the database on CDMS implementations, survey)
- Maintenance and Update of the "Guidelines on Best Practices for Climate Data Rescue" WMO-No.1182 (2016). In liaise with Copernicus "Best Practices Guidelines for Climate Data Rescue" (2019). Close Work with the KNMI (I-Dare Portal) and with the Copernicus Portal
- Maintenance and Update of the "Guidelines on Homogenization" WMO-No.1245 (2020)











# **Open Source Climate Data Management Systems**

- Be a guarantor of the best climatological practices to be implemented in Climate Data Management System projects and initiatives. In liaise with all actors: SERCOM, INFCOM and other entities.
- Maintenance and Update of the QA/QC WMO Document + Finalization of the review
- Provide use cases, conceptual diagrams to all the community.

Design and provide a first draft of an international Data Quality Code



# WWR, CLINO, CLIMAT and daily climate data exchange

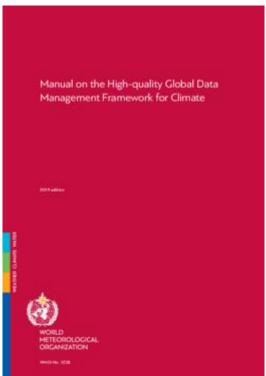
Guidance and recommendations for global and regional climate data collections including WWR, CLINO, CLIMAT and, daily climate data exchange and reference climatological stations

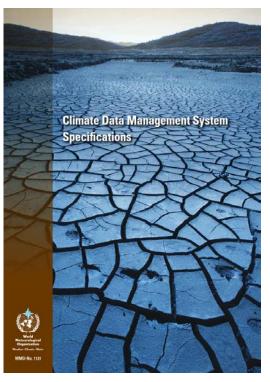
- DAYCLI message: Provide user requirements to INFCOM for the implementation of the DAYCLI, With TT-TDCF (INFCOM), Meetings with TT-TDCF: 3-4 November 2020
- Produce a recommendation for EC-73 (through SERCOM/INFCOM) on the collection of Climatological Standard Normals



# Full WIS 2.0 utilization for climate data and products

- Collaboration ET-DRC and the Expert Team on Information Management (ET-IM, INFCOM) to avoid duplication of work and for this purpose a close collaboration is required.
- WMO-No.1238 and WMO-No.1131 integrated into the manual in the WIS technical regulation







# WMO Catalogue of Climate Data

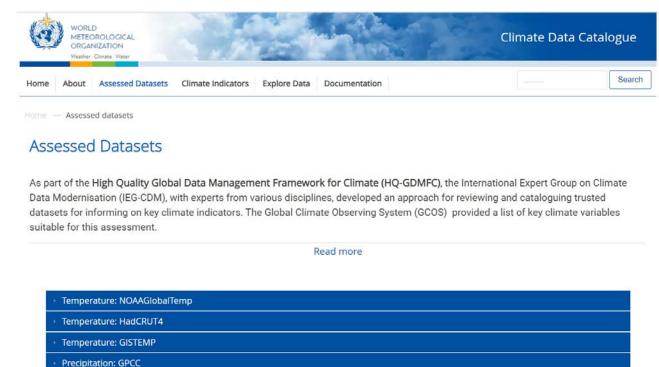
- Assessed global datasets need to be updated;
- Global updated datasets need to be added to Catalogue;
- Content of Catalogue website needs updating;

 National datasets for France, Germany, Canada and Brazil need to be added to a new National Assessed Datasets feature page on

the Catalogue.

https://climatedata-

catalogue.wmo.int/

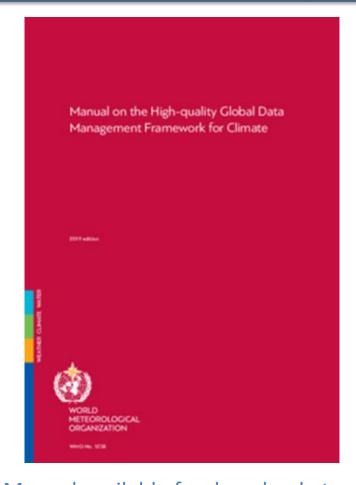




homepage

# WMO Manual on High Quality Global Data Management Framework for Climate

- ET-DDS team with William Wright as the lead author helped develop the first version of the Manual (WMO-No. 1238);
- First technical manual on Climate Data;
- Endorsed by Congress 18 in June 2019;
- Manual needs updating;
- Among others needs additional information on Marine Data;
- William Wright has agreed to be the lead editor on the update;
- Timeline for next version publication is 2023?



Manual available for download at https://library.wmo.int/doc\_num.php?explnum\_id=10197



# Update of the WMO recognition mechanism for the longterm observing stations

- Produce a recommendation for EC-73 (through SERCOM/INFCOM) on updated mechanism for long term observing stations ( as a response to EC-72 outcomes);
- WMO Secretariat will provide to ET-DRC a draft recommendation for the SERCOM session in Feb 21 that provides a proposal for TCC.

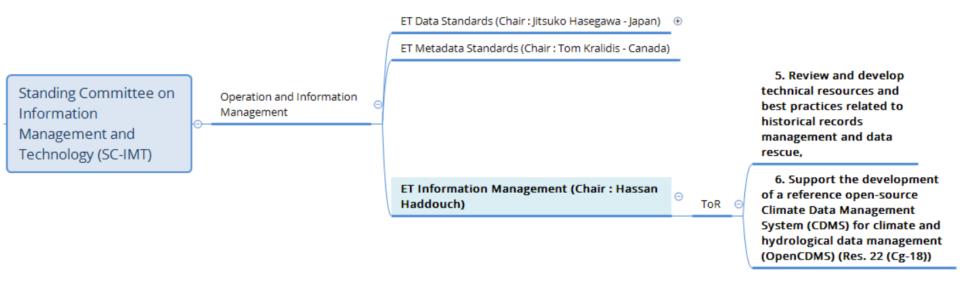


# Guidelines on definitions and requirements for climatological reference stations

- The previous CCl Rapporteur on Reference Observation, Mr.
   Andrea Merlone is currently finalizing a document "Climate Reference Stations: Definitions and Requirements". We intend to present this document to the next INFCOM session (February 2021).
- Andrea works with experts from different domains (Peer Hechler and William Wright). WMO Secretariat will facilitate presentation of this doc to the ET-DRC upon its finalization (planned for Dec 20)



#### ET-DRC: Collaboration with INFCOM and Others



- WMO and Open Geospatial Consortium (OGC): The Meteorology and Oceanography Domain Working Group (Met Ocean DWG)
- WMO and Open Geospatial Consortium (OGC): The Hydrology Domain Working Group
- OGC and International Organization for Standardization (ISO)



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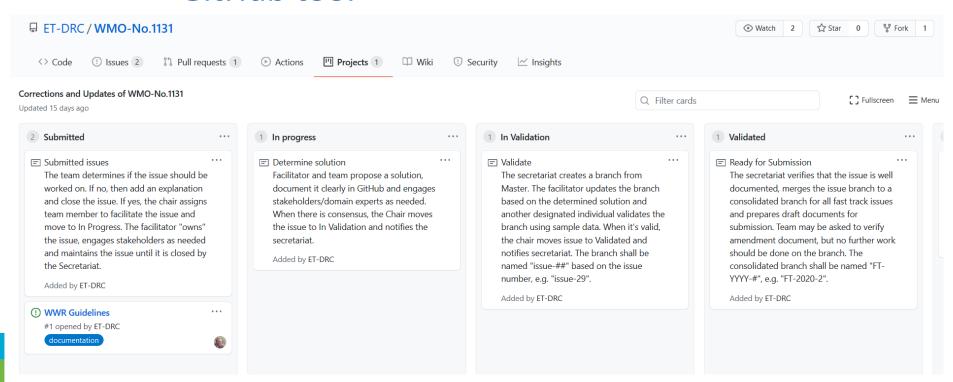
#### **Communication Plan**

 Need to communicate on our deliverables so that the community can fully benefit



#### **Work methods and Tools**

 Use the method designed by WMO with the GitHub tool



https://github.com/ET-DRC/WMO-No.1131/projects/1



## Sub-groups

- We are numerous and so are the tasks!!
- Need to have sub-groups/task-groups;
- These sub-groups/task-group need to have other leaders than the co-chairs;
- Need to delegate;
- Invited experts to help;
- Need to have several meetings to finalyze the tasks in the 6 coming months
- Regular short meetings with specific topics ?



# Attempt on work processes and frequency of meetings

Agenda for next meetings .....

Meeting December 2, 2020 – 13:00 Geneva Time

