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| INWEATHER CLIMATE WATER | **World Meteorological Organization**  **COMMISSION FOR OBSERVATION, INFRASTRUCTURE AND INFORMATION SYSTEMS**  **Third Session** 15 to 19 April 2024, Geneva | **INFCOM-3/Doc. 8.3(6)** |
| Submitted by: Chair of SC-IMT  7.III.2024  **DRAFT 1** |

**AGENDA ITEM 8: TECHNICAL DECISIONS**

**AGENDA ITEM 8.3: WMO Information System**

# Climate Data Management including the update of the Climate Data Management System Specifications (WMO‑No. 1131)

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| **Summary** |
| **Document presented by:** Chair of the Standing Committee on Information Management and Technology (SC-IMT)  **Strategic objective 2020–2023:** 2.2  **Financial and administrative implications:** within the parameters of the Strategic and Operating Plans 2024–2027  **Key implementers:** INFCOM in collaboration with SERCOM  **Time frame:** 2024–2027  **Action expected:** review the proposed draft resolutions |

# DRAFT RESOLUTIONS

## Draft Resolution 8.3(6)/1 (INFCOM-3)

## Update of the Climate Data Management System Specifications (WMO‑No. 1131) and experimental use of the WMO Core Climate Data Model

THE COMMISSION FOR OBSERVATION, INFRASTRUCTURE AND INFORMATION SYSTEMS,

**Recalling** [Resolution 23 (Cg-19)](https://library.wmo.int/idviewer/67177/206) - Climate Data Management in the WMO Information System 2.0,

**Noting with appreciation:**

(1) The progress made by the Standing Committee on Information Management and Technology (SC-IMT), in collaboration with the Standing Committee on Climate Services (SC-CLI), on the development of a Climate Data Model to support the implementation of Climate Data Management by Members,

(2) The collaboration between SC-CLI and SC-IMT in the further development of the [*Climate Data Management System Specifications*](https://library.wmo.int/records/item/51447-climate-data-management-system-specifications?offset=1)(WMO-No. 1131),

**Takes note** of the scope and purpose of the draft WMO Core Climate Data Model, as provided in [INFCOM-3/INF 8.3(6a)](https://meetings.wmo.int/INFCOM-3/InformationDocuments/Forms/AllItems.aspx);

**Decides:**

(1) To endorse the draft WMO Core Climate Data Model provided in INFCOM-3/INF-8.3(6a) for experimental use;

(2) To adopt the proposed amendments to the *Climate Data Management System Specifications* (WMO-No. 1131) as described in the Annex to this Resolution and [INFCOM-3/INF. 8.3(6b).](https://meetings.wmo.int/INFCOM-3/InformationDocuments/Forms/AllItems.aspx)

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[Annex: 1](#Annex)

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## Annex to draft Resolution 8.3(6)/1 (INFCOM-3)

## Update to the *Climate Data Management System Specifications* (WMO‑No. 1131)–summary and rationale

The [*Climate Data Management System Specifications*](https://library.wmo.int/records/item/51447-climate-data-management-system-specifications?offset=1) (WMO-No. 1131) provides a description of and guidelines for a Climate Data Management System (CDMS) for the National Meteorological and Hydrological Services (NMHSs) in order to advise on the functionality required to properly manage climate data and to aid the implementation of CDMSs by Members. Since its first publication in 2014 there have been many developments such as: the implementation of the WMO Integrated Global Observing System, including the Global Basic Observing Network (GBON) ([Resolution 2 (Cg-Ext (2021))](https://library.wmo.int/viewer/57850?viewer=picture#page=29&viewer=picture&o=bookmark&n=0&q=)– Amendments to the Technical Regulations related to the establishment of the Global Basic Observing Network)); approval of the WMO Unified Data Policy ([Resolution 1 (Cg-Ext(2021))](https://library.wmo.int/viewer/57850?viewer=picture#page=9&viewer=picture&o=bookmark&n=0&q=) – WMO Unified Policy for the International Exchange of Earth System Data) and the outcomes from the WMO reform.

The proposed amendments are aimed at aligning the *Climate Data Management System Specifications* (WMO-No. 1131) with the latest WMO technical regulations and developments, and includes updates to:

1. Reflect relevant changes in the WMO technical regulations (e.g. the WMO Integrated Global Observing System Branch (WIGOS) Metadata Standard, new observing networks (GBON, Regional Basic Observing Network (RBON)), updated WMO Core Metadata Profile);
2. Align with best practices on information management, described in the [*Guide to the WMO Information System*](https://library.wmo.int/viewer/28988/?offset=#page=19&viewer=picture&o=bookmark&n=0&q=) (WMO-No. 1061), Part IV;
3. Provide updated support for key climate products (CLIMAT, daily summary reports (DAYCLI), WMO Climate Normals);
4. Upgrade support for provenance metadata from a recommended to a mandatory component.

The full text of the revised version can be found in [INFCOM-3/INF. 8.3(6b)](https://meetings.wmo.int/INFCOM-3/InformationDocuments/Forms/AllItems.aspx).

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## Draft Resolution 8.3(6)/2 (INFCOM-3)

## Establishment of a Global Data Assembly Centre for marine meteorological and oceanographic climate data within the Marine Climate Data System

THE COMMISSION FOR OBSERVATION, INFRASTRUCTURE AND INFORMATION SYSTEMS,

**Recalling** [Resolution 23 (Cg-19)](https://library.wmo.int/idviewer/67177/206) - Climate Data Management in the WMO Information System 2.0,

**Reaffirming** the Earth System approach and the important role of the joint WMO/IOC Marine Climate Data System in the long-term stewardship of marine climate data at a regional and global level,

**Noting with appreciation:**

1. The application by Coriolis, hosted by the French Research Institute for Exploitation of the Sea (Institut Français de Recherche pour l'Exploitation de la Mer (Ifremer)), to become a Global Data Assembly Centre for moored buoys within the Marine Climate Data System,
2. The evaluation conducted by an ad-hoc panel comprising of representatives nominated by WMO and the Group of Experts on Biological and Chemical Data Management and Exchange Practices (IODE), including its recommendation as reported in [INFCOM‑3/INF. 8.3(6c)](https://meetings.wmo.int/INFCOM-3/InformationDocuments/Forms/AllItems.aspx),

**Decides** to establish Coriolis (at Ifremer) as a Global Data Assembly Centre for moored buoys within the Marine Climate Data System;

**Requests** the Standing Committee on Information Management and Technology (SC-IMT), in collaboration with the Commission for Weather, Climate, Hydrological, Marine and Related Environmental Services and Applications (SERCOM), to include the new Global Data Assembly Centre in the appropriate Guide as part of the harmonization of the technical regulations and guidance related to climate data and observations as per [Resolution 23 (Cg-19)](https://library.wmo.int/idviewer/67177/206) – Climate Data Management in the WMO Information System 2.0.

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