WMO Data Conference

The changing landscape of weather, climate and water data

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CONVENTION OF THE WORLD METEOROLOGICAL ORGANIZATION

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PART II
ARTICLE 2
Purposes

The purposes of the Organization shall be:

(a) To facilitate worldwide cooperation in the establishment of networks of stations for the making of meteorological observations as well as hydrological and other geophysical observations related to meteorology, and to promote the establishment and maintenance of centres charged with the provision of meteorological and related services;

(b) To promote the establishment and maintenance of systems for the rapid exchange of meteorological and related information;

(c) To promote standardization of meteorological and related observations and to ensure the uniform publication of observations and statistics;

(d) To further the application of meteorology to aviation, shipping, water problems, agriculture and other human activities;

(e) To promote activities in operational hydrology and to further close cooperation between Meteorological and Hydrological Services; and

(f) To encourage research and training in meteorology and, as appropriate, in related fields and to assist in coordinating the international aspects of such research and training.
Resolution 60 (Cg-17)

WMO Policy for the International Exchange of Climate Data and Products to Support the Implementation of the Global Framework for Climate Services

The world is facing significant climate challenges, which require effective and timely exchange of climate data and products. This resolution aims to enhance the exchange of climate data and products to support the implementation of the Global Framework for Climate Services.

Exchange of Hydrological Data and Products

The Congress, noting:

1. Resolution 40 (Cg-XII) — WMO policy and practice for the exchange of meteorological and related data and products including guidelines on relationships in commercial meteorological activities.
2. The inclusion of dedicated observations of the climate system, including hydrological data, in the World Climate Report.
3. The Technical Regulation (WMO, 2015) stating that, in general, the routine functions of the WMO should include, among other things, making the data accessible to users, and those functions and their requirements are contained in the Technical Regulations and contain 15 lists of data forms within the context of the World Weather Watch.
4. That the nineteenth Session of the United Nations General Assembly adopted, in its resolution 69/230, the Convention on the Law of the Non-Navigational Uses of International Watercourses, Articles 8 and 9 of which provide for the establishment of the Hydrological Programme of UNESCO, and the Intergovernmental Council of the International Hydrological Programme of UNESCO, which deals with the exchange of hydrological data and information needed for research at the international and regional levels.

Considering:

1. The significance attached by the United Nations General Assembly to the importance of water and the environment, particularly the global water cycle, and the need for international cooperation in water-related activities.
2. The role of the United Nations Conference on Sustainable Development (Rio de Janeiro, 2012) in encouraging the development of integrated water resources management (IWRM) at the local, national, and international levels.

World Meteorological Organization

Thirteenth WMO Congress, Geneva, May 1999

Resolution 25 (Cg-XIII)

Exchange of Hydrological Data and Products
ADOPTS the following policy on the international exchange of meteorological and related data and products:

As a fundamental principle of the World Meteorological Organization (WMO), and in consonance with the expanding requirements for its scientific and technical expertise, WMO commits itself to broadening and enhancing the free and unrestricted\(^1\) international exchange of meteorological and related data and products;

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\(^1\)“Free and unrestricted” means non-discriminatory and without charge [Resolution 23 (EC-XLII) – Guidelines on international aspects of provision of basic and special meteorological services]. “Without charge”, in the context of this resolution means at no more than the cost of reproduction and delivery, without charge for the data and products themselves.
Resolution-40
Meteorological and related data
12th WMO Congress in 1995

Resolution-25
Hydrological data and products
13th WMO Congress in 1999

Resolution-60
Climate data and products
17th WMO Congress in 2015
## ANNEX 1 TO RESOLUTION 40 (Cg-XII)

### DATA AND PRODUCTS TO BE EXCHANGED WITHOUT CHARGE AND WITH NO CONDITIONS ON USE

**Purpose**
The purpose of this listing of meteorological and related data and products is to identify a minimum set of data and products which are essential to support WMO Programmes and which Members shall exchange without charge and with no conditions on use. The meteorological and related data and products which are essential to support WMO Programmes include, in general, the data from the RBSNs and as many data as possible that will assist in defining the state of the atmosphere at least on a scale of the order of 200 km in the horizontal and six to 12 hours in time.

**Contents**

1. Six-hourly surface synoptic data from RBSNs, e.g. data in SYNOP, BUFR or other general purpose WMO Code;
2. All available *in situ* observations from the marine environment, e.g. data in SHIP, BUOY, BATHY, TESAC codes, etc.;
3. All available aircraft reports, e.g. data in AMDAR, AIREP codes, etc.;
4. All available data from upper air sounding networks, e.g. data in TEMP, PILOT, TEMP SHIP, PILOT SHIP codes etc.;
5. All reports from the network of stations recommended by the regional associations as necessary to provide a good representation of climate, e.g. data in CLIMAT/CLIMAT TEMP and CLIMAT SHIP/CLIMAT TEMP SHIP codes, etc.;
6. Products distributed by WMCs and RSMCs to meet their WMO obligations;
7. Severe weather warnings and advisories for the protection of life and property targeted upon end-users;
8. Those data and products from operational meteorological satellites that are agreed between WMO and satellite operators. (These should include data and products necessary for operations regarding severe weather warnings and tropical cyclone warnings).
Thank you

Merci

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WMO OMM

World Meteorological Organization
Organisation météorologique mondiale