WMO Data Conference
Stakeholder Consultation

Hydrological Data and WMO Data Policy: Evolution of WMO Data Policy from 1950 to today

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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-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
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.
Data Challenges – there are a few .....

- Social media
- Localised services
- Meeting basic obligations
- Sensor webs
- Digital delivery on demand
- User expectations increasing
- More data, more often
- Personalised services
- User capabilities increasing
- Commercial data
- Communications costs
- Environmental change
- More agile competitors
- Making investment choices
- More diverse data providers
- More extreme weather
- Single authoritative voice
- Resource pressure
- Populations at risk
- Traceability
- Build or buy
- Interoperability with user data
- Building partnerships
- Populations at risk
- Discoverability
- Keeping up with technology change
- Internet of Things
- Quality monitoring
- Automation
- Data/metadata management
- Reliance on bespoke systems
- Infrastructure at risk
- Business continuity
- Compliance with regulations
- Verification
- Sourcing/Retaining skilled staff
- Revenue potential
- Sustainability
- Interoperability with user data
- Licence conditions
- More diverse data platforms
- Performance monitoring
- Research vs operational data
- Data ownership and rights
- Enabling new science
- Emerging compute technologies
- Emerging compute technologies
CBS-Led Review – Emerging Data Issues

Panel discussions
- Recognising the Annex as out of date
- Reluctance to open the Annex

Recommendations to EC-71
- Recognising that Res 40 not fit-for-purpose
- Recommending a review of Resolution 40

Study Group on Data Issues and Policies

New WMO Data Resolution
Major Activities

GBON

SOFF

New WMO Data Resolution
Thank you
Merci

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