

Expert Meeting on Monitoring, Assessment and Data Exchange

WMO guidance for observations and data exchange

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WEATHER CLIMATE WATER
TEMPS CLIMAT EAU



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World Meteorological Organization
Organisation météorologique mondiale

Successful information exchange

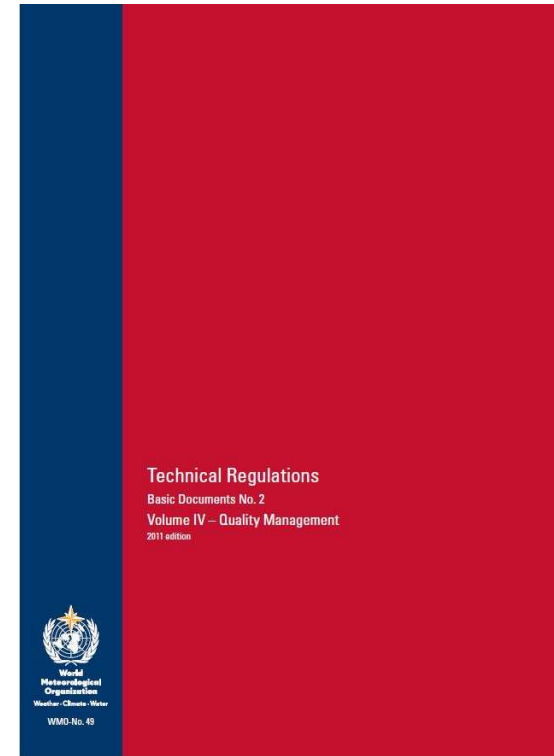
- Good quality data
- Efficient communication system
 - Standards
 - Guidance



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Standards and Guidance

- Standards: requirements, specifications, guidelines or characteristics to ensure that materials, products, processes and services are fit for their purpose
- Guidance: describe in detail the recommended practices and procedures that Members are invited to follow



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The purpose of standards



Right vs wrong way
of doing things

Ensuring
compatibility
and comparability

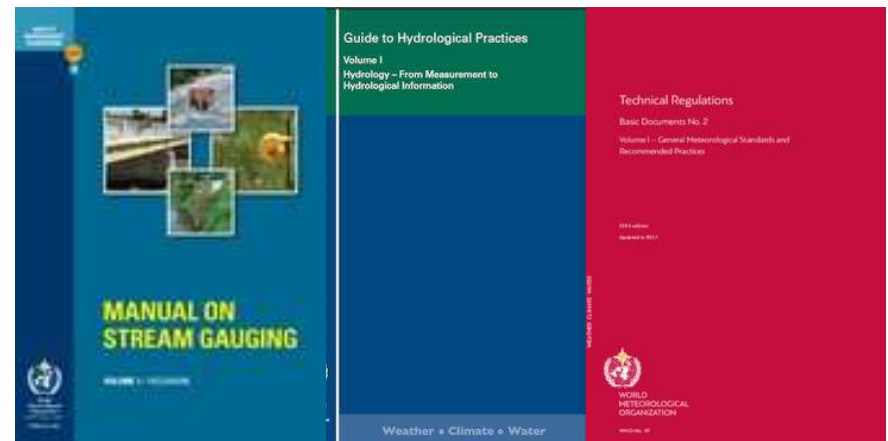


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WMO regulatory material

- Technical Regulations: *what to do*
- Guide to Hydrological Practices
- Manual
- Guidelines
- Technical Documents

How to do it



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How to implement

- Quality (QA, QC, QMF)
- Calibration, Field verification, Traceability
- Training
- Intercomparison
- Reference data



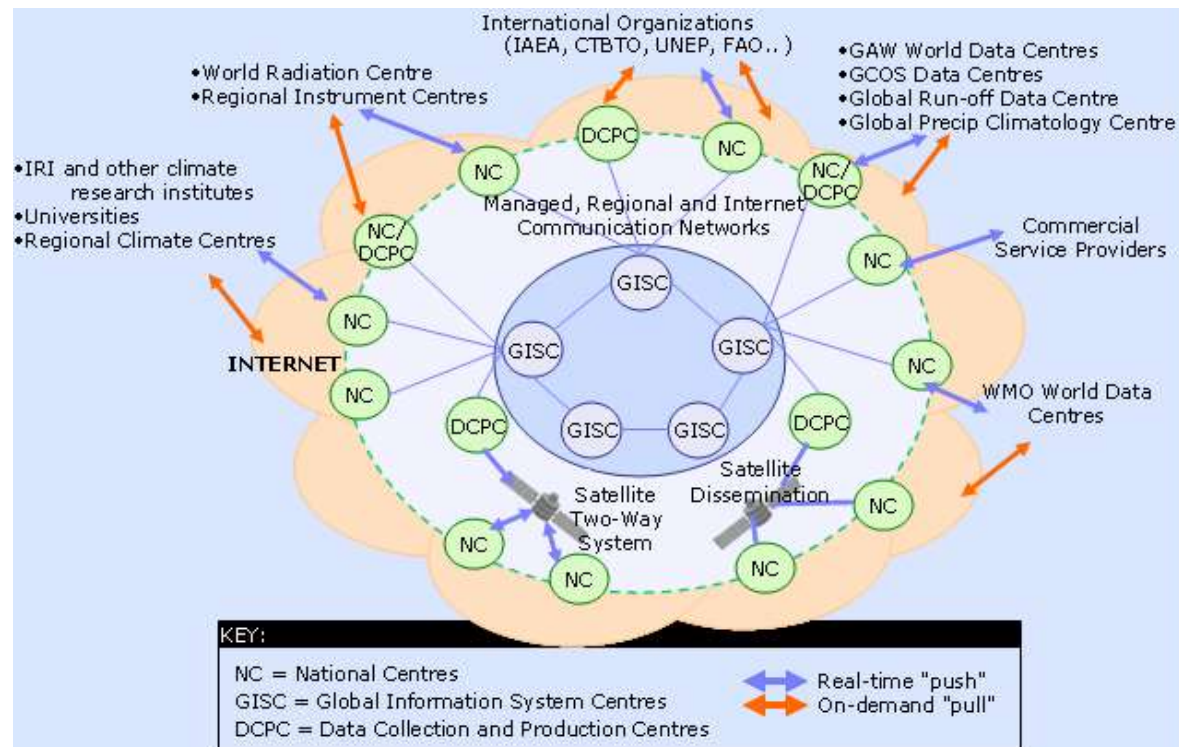
WMO Manuals and Guidelines

- Manual on Stream Gauging
Vol. I: Fieldwork and Vol. II: Computation of discharge
- Manual on flood forecasting and warning
- Manual on estimation of Probable Maximum Precipitation (PMP)
- Manual on Low-flow Estimation and Prediction
- Guidelines for the Assessment of Uncertainty for Hydrometric Measurement
- Guidance on Environmental Flows, Integrating E-flow Science with Fluvial Geomorphology to Maintain Ecosystem Services
- Guidelines for Hydrological Data Rescue
- Planning of Water Quality monitoring systems
- <https://community.wmo.int/activity-areas/hydrology-and-water-resources/publications>



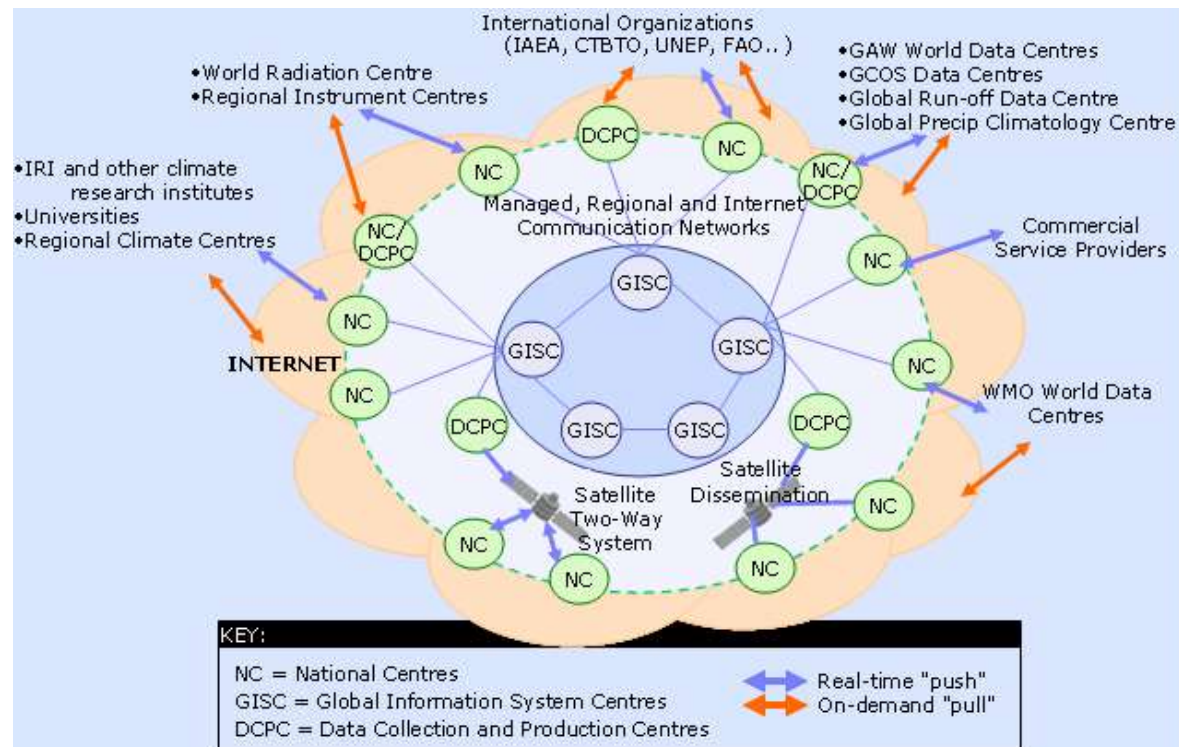
Data access and exchange

- Manual on codes
- WaterML 2.0
- WHOS



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Thank you
Merci