

Data and information sharing WMO global systems



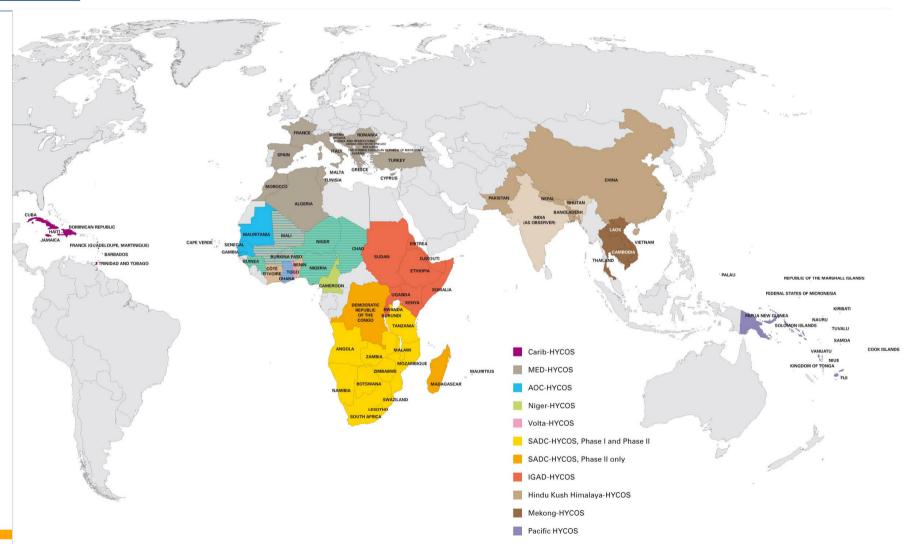
TIME FOR SOLUTIONS

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World Hydrological Cycle Observing System (WHYCOS)





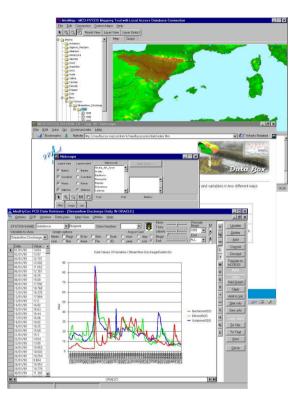
WHYCOS — The goals

- Building the **capacity** for water resources assessment and management
 - Data collection and management
 - Key national stations
 - Information products development and dissemination
- Promoting regional and international cooperation in the collection, transmission, processing and archiving of hydrological data and information



WMO Data Exchange Policy

Committed to broadening and enhancing, whenever possible, the free and unrestricted international exchange of hydrological data and products, in consonance with the requirements for WMO's scientific and technical programmes





WMO resolutions 40 and 25

- Res. 40 (Cg-XII) WMO policy and practice for the exchange of meteorological and related data and products.
 - "Members shall provide on a free and unrestricted basis essential data and products which are necessary for the provision of services in support of the protection of life and property and the well being of all the nations..."
- Res 25 (Cg-XIII) Exchange of hydrological data and products.

"Members shall provide on a free and unrestricted basis those hydrological data and products which are **necessary for the provision of services in support of the protection of life and property and the well being of all the nations..."**



Quality Management Framework - Hydrology

"WMO is dedicated to ensuring optimum affordable quality for all meteorological, climatological, hydrological, marine and related environmental data, products and services, especially those supporting the protection of life and property, safety on land, at sea and in the air, sustainable economic development and protection of the environment."

Volume IV of the Technical Regulations (WMO-No. 49)

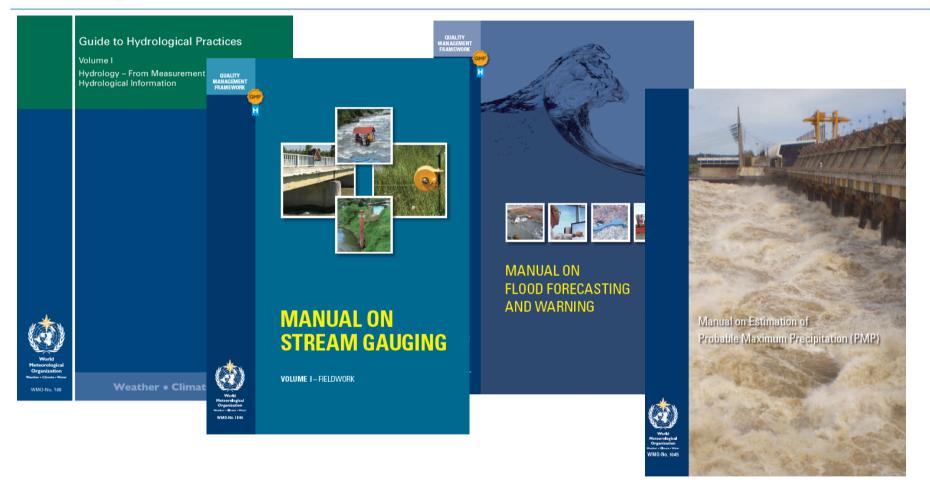


The Eight Principles of Quality Management

- User/customer focus
- Leadership
- Involvement of people
- Process approach
- System approach to management
- Continual improvement
- Factual approach to decision making
- Mutually beneficial supplier relationships



QMF-H





WIGOS

WMO Integrated Global Observing System



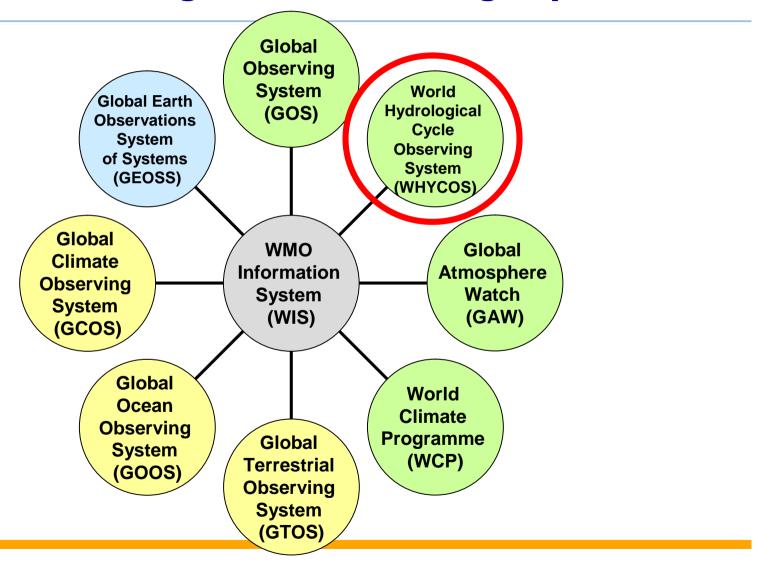


WIGOS - Objectives

- Better utilize existing and emerging observing capabilities (WWW-GOS, GAW, WHYCOS),
- Guarantee systems interoperability,
- Meet standards for data quality;
- Design of cost-effective composite observing systems;
- Develop strategies to satisfy observing requirements;
- Develop a strategy for the production, editing and management of metadata, and data discovery;
- Promote exploitation of existing platforms and employment of the multisensor platform concept to the maximum possible extent; and
- Coordinate the response to requirements, plans and activities with all WMO technical commissions, regional associations and Programmes.



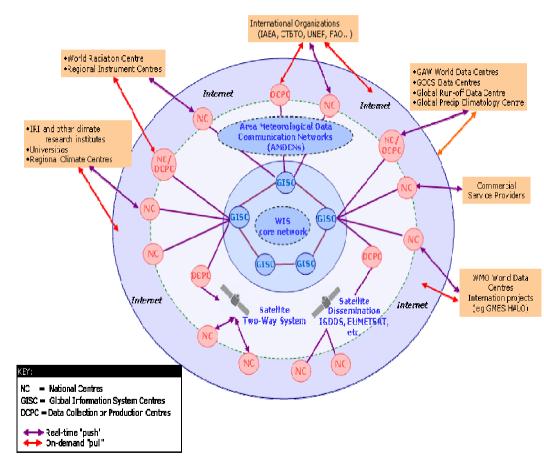
WIS and Selected WMO Observing and Data Exchange Systems

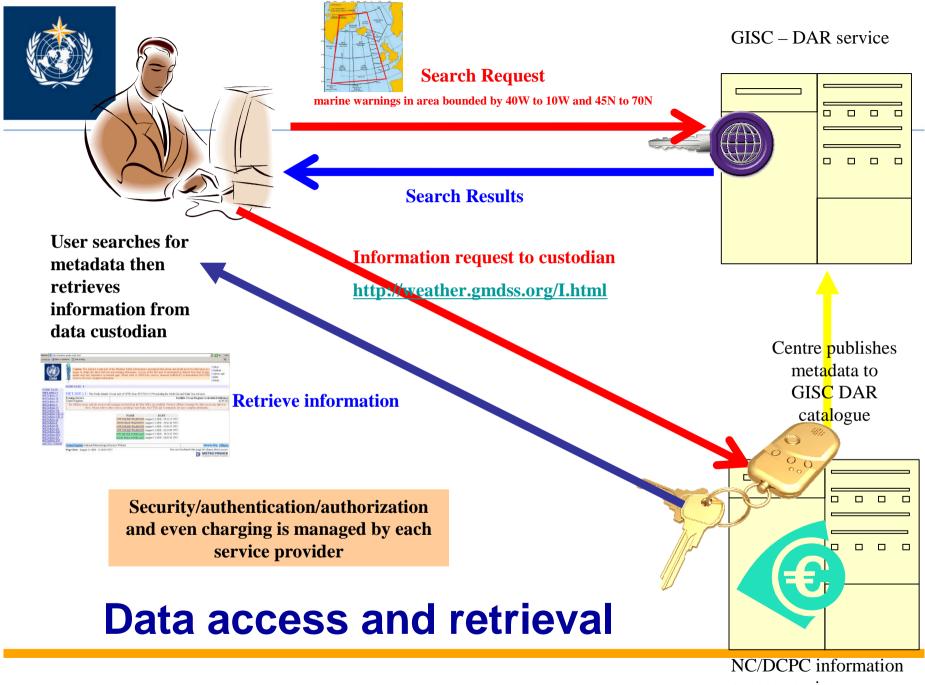




WMO Information System WIS

- Make available data from existing global hydrological observation networks and enhance their value through integration
- Generation of datasets suitable for:
 - Research in the areas of global and regional climate change
 - Environmental monitoring, and
 - Hydrology and water resource management

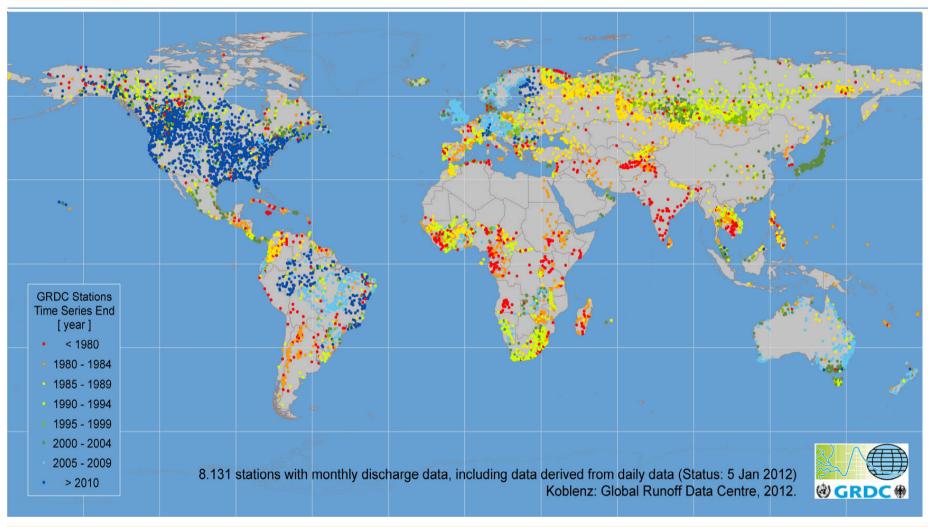




access service

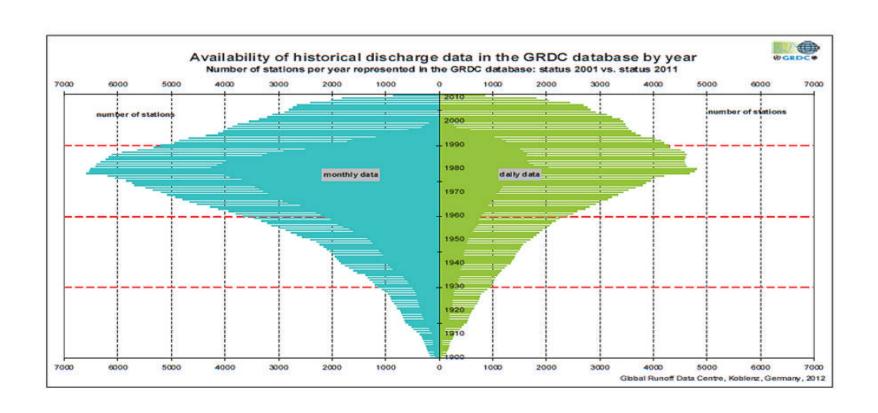


Global Runoff Data Centre Database





Availability of Historic Discharge Data in GRDC





worldwaterforum6.org solutionsforwater.org













