



WORLD
METEOROLOGICAL
ORGANIZATION



Case Study

Meteorology Climatology Hydrology (MCH) Database Management System

Countries

Albania, Belize, Bosnia and Herzegovina, Curacao, Ecuador, El Salvador, Guatemala, Guyana, Honduras, Kazakhstan, Kosovo, North Macedonia, Nicaragua, Paraguay, Gambia

Summary of Activity

The Meteorology Climatology Hydrology (MCH) Database Management System is designed for National Meteorological and Hydrological Services (NMHSs) that need a simple, customizable and license free solution to manage and store real-time and historical data. It permits its users to manage all environmental data sets. Training on its installation and use is provided free-of-charge to WMO Members. MCH also has user community where user experiences are shared and questions can be submitted.

Benefits

- MCH functionalities include data rescue, data analyses/quality control, export and import interfaces, customizable user access/role and standardized formats. It centralizes in a unique system, all data needed for cross-cutting analysis of climate, weather and water phenomena
- Facilitates data exchange between national services as well as among NMHSs and contributions to broader data sharing initiatives at basin, regional or global levels
- Reduces the amount of staff time spent managing data, allows to analyze data in a variety of ways, permits the transformation of raw data into a valuable resource, and improves the quality and consistency of information
- No license fees, which allows services to allocate resources to other activities

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