

WMO/OGC Hydrology Domain Working Group Orléans Resolution

The Hydrology Domain Working Group (DWG) is a Joint Working Group of the World Meteorological Organisation (WMO) and the Open Geospatial Consortium (OGC). It contributes to the work of the Commission for Hydrology Advisory Working Group Data Operations and Management theme. The purpose of the Hydrology DWG is to provide a mechanism for seeking technical and institutional solutions for exchanging data describing the state and location of water resources, both above and below the ground surface.

The Hydrology DWG met for its annual workshop in Orléans, France from 20-23 September 2015. The meeting was hosted by the Bureau de Recherches Géologiques et Minières (BRGM), the French national geological survey. At the meeting, 25 participants from the USA, Canada, UK, France, Germany, Italy, Spain, Australia and New Zealand discussed national initiatives for hydrological data sharing and development of information models and exchange formats for groundwater and hydrologic features.

Since it was formed in 2009, the Hydrology DWG has completed significant work in development of data exchange standards for Timeseries; Ratings, Gaugings and Sections; Water Quality and Groundwater. The group has also developed a hydrology profile for the Sensor Observation Service and the Hydrologic Features conceptual model.

At the meeting, the Hydrology DWG was informed of the recent establishment of the WMO Hydrological Observing System (WHOS) as the hydrological input to WMO Global Integrated Observing System (WIGOS). It was pleased to see the progress made in a number of WMO Regions on the implementation of standards that supports exchange of hydrological data, with work being completed in Italy, New Zealand, China, Latin America as well as HYCOS regions in Africa and the Arctic. Additional pilot studies were fostered through the GEOSS water services project conducted over the past four years. At the national scale USA, Australia, New Zealand and Italy have established mature water data services.

The Hydrology Domain Working Group recommends establishment of a WHOS portal to provide access to OGC standard-conformant water data services provided by National Hydrological Services.

Resolution adopted 23 September 2015