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Bridging the gap between NASA Hydrological Data and the Geospatial Community

Hualan Rui[†]; William Teng; Bruce Vollmer; David Mocko; Hiroko Beaudoing; Joseph Nigro; Mark Gray; David Maidment; Richard Hooper
[†] ADNET, USA
Leading author: Hualan.Rui@nasa.gov

There is a vast and ever-increasing amount of data on the Earth interconnected energy and hydrological systems, available from NASA remote sensing and modeling systems, and yet, one challenge persists: increasing the usefulness of these data for, and thus their use by, the geospatial communities. The Hydrology Data and Information Services Center (HDISC), part of the Goddard Earth Sciences DISC, has continually worked to better understand the hydrological data needs of the geospatial end users, to thus better able to bridge the gap between NASA data and the geospatial communities. This presentation will cover some of the hydrological data sets available from HDISC, and the various tools and services developed for data searching, data subsetting, format conversion, online visualization and analysis, interoperable access, etc., to facilitate the integration of NASA hydrological data by end users. The NASA Goddard data analysis and visualization system, Giovanni, is described. Two case examples of user-customized data services are given, involving the EPA BASINS (Better Assessment Science Integrating point & Non-point Sources) project and the CUAHSI Hydrologic Information System, with the common requirement of on-the-fly retrieval of long duration time series for a geographical point.