

Abstract

Super-charging the National Hydrography Dataset with Computed Attributes

Track: Water Resources

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NHD contains a rich set of features, a navigable stream network, and a standardized linear referencing system. This elemental information is the foundation for building powerful water management and modeling capabilities. The US EPA has begun to enhance the NHD with a series of value-added attributes that make NHD applications easier to implement and faster to process. These attributes are computed solely from information contained in the NHD and include Strahler stream order and hydrologic sequence number, among others. With these attributes, it is possible to navigate the NHD with simple queries and to perform stream routing with a sequential process.

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