

Abstract

Integrating EDNA and NHD Datasets to Derive Catchments for Stream Reaches

Track: Water Resources

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DEM-derived catchments are being developed for integration with the National Hydrography Dataset (NHD). The NHD provides cartographic hydrography data for the U.S., and is commonly used by state and federal agencies for managing and cataloging hydrologic data. The NHD currently lacks catchment delineations for individual reach segments. Catchment and watershed delineations are often required for research applications. The Elevation Derivatives for National Applications (EDNA) dataset provides important layers relevant to hydrologic applications. We have developed techniques to integrate the flow routing schemes of both datasets to derive synthetic catchment delineations for NHD reaches.

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