

Abstract

NHD Watershed: Tools and Applications

Track: Water Resources

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The National Hydrography Dataset (NHD) ArcView Toolkit is a collection of ArcView extensions that help users work with NHD data. One extension is NHD Watershed that allows users to delineate watersheds from any point on a NHD stream reach network where related datasets have been preprocessed. A second extension is NHD BasinCharacteristics that allows users to summarize selected basin characteristics for newly delineated watersheds. These tools have been used to estimate flood frequencies along ungauged stream reaches in Vermont and are being applied in Massachusetts, in batch mode, to assess their capability in estimating the point where intermittent streams become perennial in the headwaters of a watershed.

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