

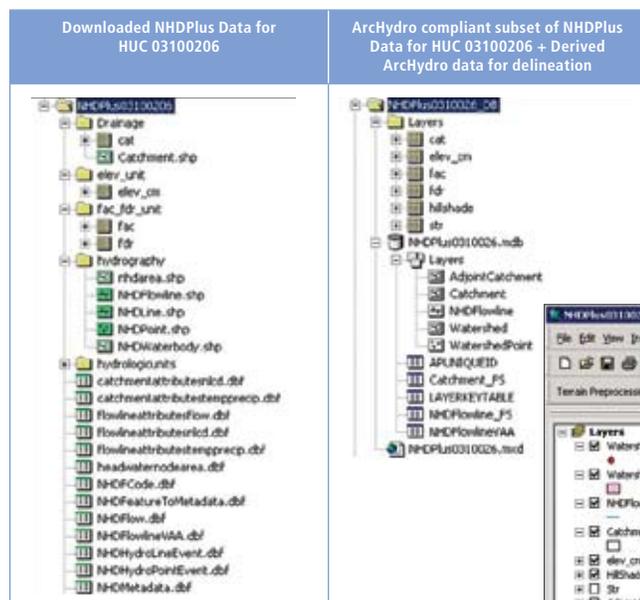
Using NHDPlus Data in ArcHydro

NHDPlus is a free ArcHydro data model extension that enables you to bring National Hydrography Dataset (NHD) data into the ArcHydro data model. You then have the ability to work with NHDPlus data using the ArcHydro tools.

NHDPlus data contains the digital elevation model (elev_cm), flow direction grid (fdr), flow accumulation grid (fac), catchment grid (cat), and catchment vector layer in addition to the data already available in the NHD. Use it with the ArcHydro tools and make it compliant with the ArcHydro data model.

1. Download NHDPlus data.

Download NHDPlus data for eight-digit hydrologic units at www.horizon-systems.com/nhdplus/extensions.php.



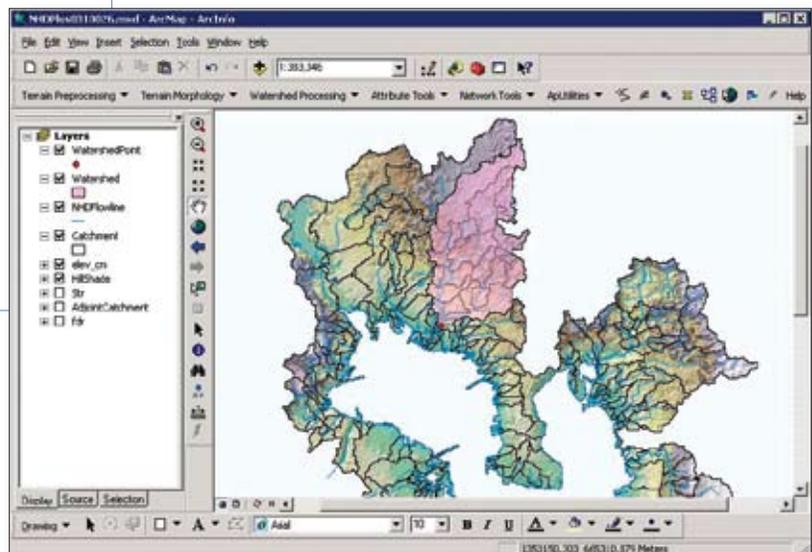
2. Make NHDPlus compliant with the ArcHydro data model.

- Import NHDFlowline and catchment into the same feature dataset in a geodatabase. Use the fdr grid to set the spatial reference.
- Import the table NHDFlowlineVAA into the geodatabase.
- Add the required ArcHydro data model fields to the catchment and NHDFlowline and populate the HydroID field.
- Populate the From_Node and To_Node fields in NHDFlowline by performing a join with the table NHDFlowline.
- Populate the GridID field in the catchment and NHDFlowline with the associated COMID.

3. Use NHDPlus data with the ArcHydro tools.

With the ArcHydro tools

- Delineate a watershed at any location within the extent of the NHDPlus data.
- Characterize the watershed (e.g., minimum elevation, maximum elevation, centroid).
- Perform network tracing and accumulate areal values using the network.



This watershed near Tampa Bay is delineated using NHDPlus.

