

**NHDPlus Release Notes for
Region 03
Last Updated 8/2/2010**

Data Release Note – 8/2/2010 – Flowline_Cat_Attr V01_04 Released

Two changes have been made to the FlowlineAttributesFlow Table: (1) All zero slopes have been changed to a nominal slope of 0.00005; and (2) the corresponding MAVELU and MAVELV estimates have been updated using the Jobson “slope” method for all Flowlines where these slopes have been changes. The result of this change is that the Jobson “noslope” method is never used. The reason for this change is that the NHDPlus Team has determined that the “noslope” method is not appropriate for zero slope applications. The Jobson velocity calculations are described in Appendix A- Step 6 of the NHDPlus User Guide.

Data Release Note – 10/17/2008 – NHD Component V01_02 Released

NHDFlowlineVAA.StreamOrde was set to zero to indicate that users are directed to use the new Stream Order/Stream Calculator fields that are available from the Data Extensions tab on the www.horizon-systems.com/NHDPlus web page.

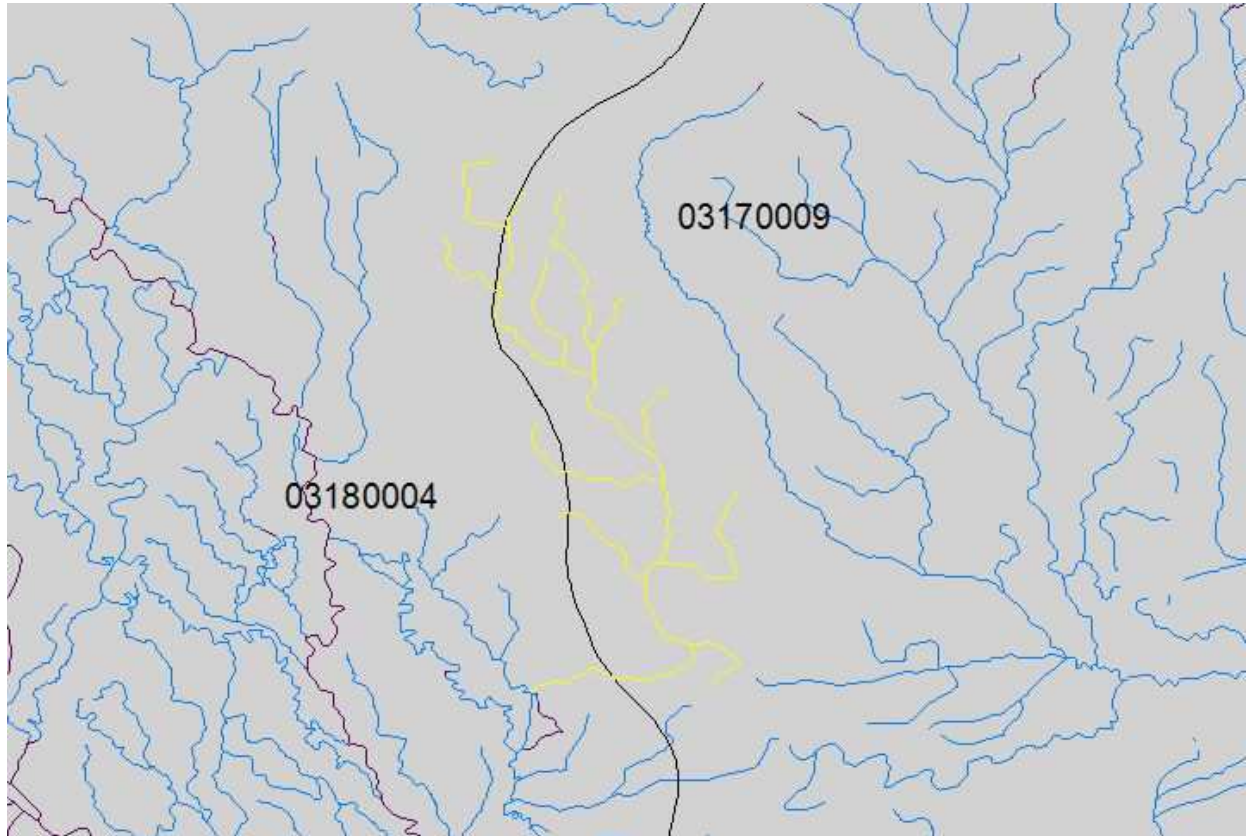
Release Note 04/28/2008 – The problem with prj.adf parameter Zunits has been corrected in the elev_cm grids.

Data Release Note – 06/05/2007 – HUC4 0318 was inadvertently omitted from several NHDPlus components

New data is available in NHDPlus03V01_02_Cat_Flowline_Attr.zip, NHDPlus03V01_02_Catgrid.zip, and NHDPlus03V01_02_Catshape.zip.

Data Release Note – 9/1/2006 – HUC4 0318 and 0317

Due to a significant error in the HUC8 boundary between 03180004 and 03170009, 22 flowlines composing 39.91 km of stream were incorrectly assigned to 03170009 in the NHD (see picture below). These highlighted flowlines clearly flow into and belong in HUC 03180004.



HUC4 0318 is the Pearl River which is hydrologically connected to region 08 and was therefore processed with the Mississippi drainage during the NHDPlus processing. HUC4 0317 is hydrologically connected to region 03 and was therefore processed with region 03 for NHDPlus. The highlighted lines in the picture above were included with the region 03 processing and received NHDPlus catchments and attributes, but their attributes are not propagated downstream into 03180004. This is due to the fact that the Mississippi NHDPlus processing preceded the region 03 processing. In effect, while geometrically connected, this sub-network is treated as logically disconnected from the standpoint of the NHDPlus cumulative attributes found in NHDFlowlineVAA.dbf, flowlineattributesflow.dbf, flowlineattributesnlcd.dbf, and flowlineattributestempprecip.dbf.

Data Release Note – 9/1/2006 – Drainage Area

NHDPlus drainage areas match gage areas quite well with no significant outliers other than the systematic issues related to minor divergence paths, etc.

Data Release Note – 9/1/2006 – Flow

There is one significant outlier in which the NHDPlus flow estimate is larger than the gage flow. This occurs at gageid 02171650 on the Santee River. The reason for this discrepancy is unknown and warrants further investigation. Also, at larger flow estimates, the UROM tends to overestimate the flow. Overall, the mean annual NHDPlus flow estimates can be considered reasonably reliable estimates in comparison to the gage flows.

Data Release Note – 9/1/2006 – Placement of Sinks

Sinks were not applied, as there are no closed 8-digit subbasins within Hydroregion 3.

Data Release Note – 9/1/2006 – Application of the Watershed Boundary Dataset

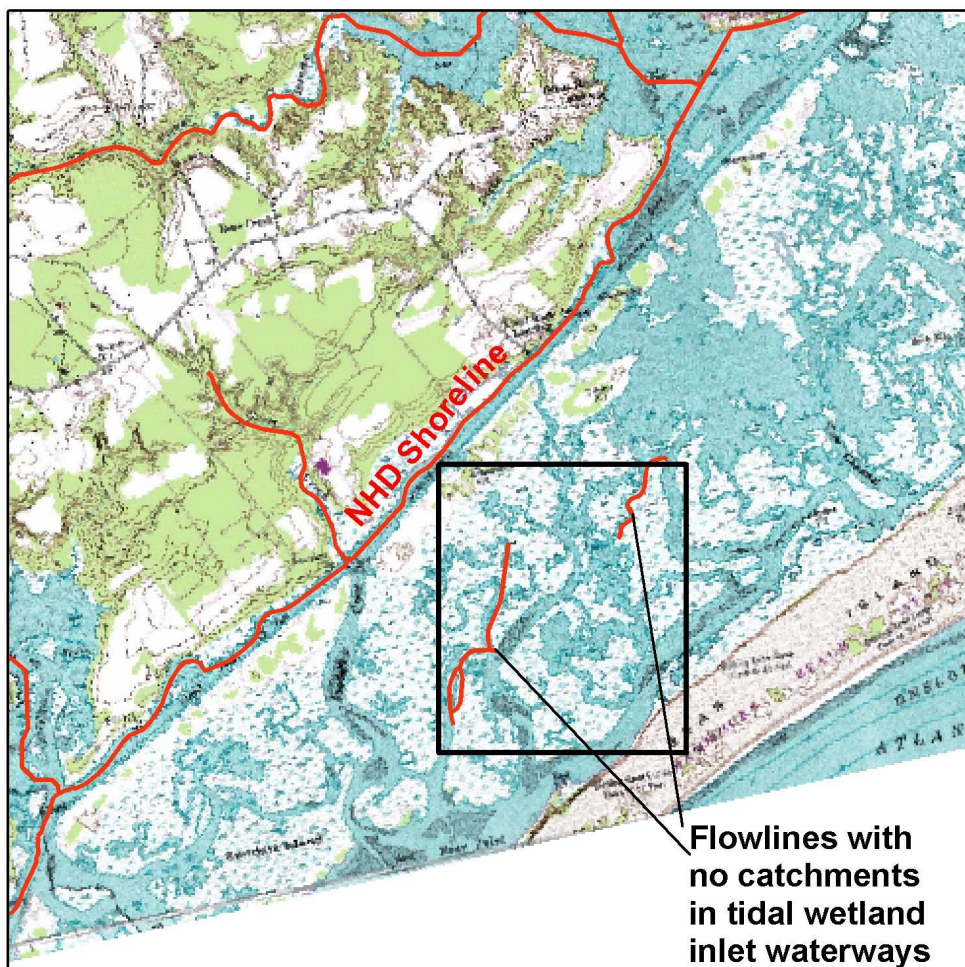
The Watershed Boundary Dataset (WBD) was used in the HydroDEM production process to insure NHDPlus Catchments conformed to these boundaries. Data was used only from states where the certified WBD existed at the time of production. For Hydroregion 3, the WBD was applied in Alabama and Georgia only. For more information on WBD see the NHDPlus Metadata file.

Data Release Note – 9/1/2006 – Flowlines with ‘lengthkm’ > .15 that have no catchments

Six flowlines that have assigned flow relationships with a ‘lengthkm’ > .15, were identified as not having a catchment assigned. These flowline ComIDs are listed below.

- 10961084
- 10961098
- 10961102
- 10961104
- 10961106
- 10961566

These flowlines are located off the North Carolina coastline and, according to 1:24,000-scale Digital Raster Graphics (USGS Topo Maps), are tidal wetland inlet waterways that fall between the coastline and the barrier islands as defined by the 1:100,000-scale NHD. No catchments were generated because NHDPlus catchments are not generated for NHD flowlines that are “off shore” and not on an “off shore” island.



Data Release Note – 9/1/2006 – Nodata Cells Found in Catchment Grid

A small area of Nodata comprising of 6 grid cells was created along the border between two processing units (3d/3e). This occurred where a NHD canal feature (assigned to processing unit 3d) crossed the divide between the two processing units. When 3d was processed, the area in question was assigned to 3e and visa versa resulting in Nodata in the final combined grid (see figure below).

