**README for Columbia Habitat Monitoring Program (CHaMP) geodatabases** 6/11/2015

**Contact:** Jean Olson

South Fork Research Inc.

206-302-2424

jean@southforkresearch.org

**Update Schedule:** Geodatabases will be updated as requested or about twice a year (before and after field season). Content requests are also accepted.

* 7/25/2012
* 1/18/2013 – Updated projection for all the rasters from North\_America\_Albers\_Equal\_Area\_Conic to CRB\_Albers\_Equal\_Area\_Conic and also the Study Area and Mask Feature Classes.
* 1/23/2013 – Added CHaMP design frames to geodatabases where appropriate.
* 6/11/2015 – Added Updated Frames, new 10 m DEM and Hillshade, changed projection to NAD 83 to repair hillshade display.

**List of available geodatabases.** Primary geodatabases support watersheds currently sampled by CHaMP (as of 2015) and secondary geodatabases support watersheds potentially sampled by CHaMP in the future.

|  |  |
| --- | --- |
| **Primary Geodatabases:** | **Secondary Geodatabases:** |
| Asotin | Joseph Creek – Large |
| Big Navarro/Garcia (CA) | Joseph Creek – Small |
| Entiat | Little Wolf |
| Grande Ronde | Big Creek (ID) |
| John Day | Okanogan |
| Lemhi | Pahsimeroi |
| Methow  Minam | Toppenish  Wind |
| South Fork Salmon |  |
| Tucannon |  |
| Umatilla |  |
| Wenatchee |  |
| Yankee Fork |  |

**Download location:**

**Projection:** Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

**Symbology Files:** To use the included symbology layers, open the layer “Properties” menu item and on the “Symbology” tab, click the “Import” button. Browse for the appropriate symbology layer you wish to use.

Geomorphic Class

Dams\_StreamNet

Dem\_NED (will work with both 10 and 30 meter rasters)

EcoRegions\_Level\_III\_US – Level 3 ecoregion classification

EcoRegions\_Level\_IV\_US – Level 4 ecoregion classification

Hatchery\_StreamNet

NLCD\_Landcover

Ownership

NHD\_Waterbody

NHD\_Flowline\_1to100K

Precipitation

Roads\_100K\_Tiger

Temperature (will work with both minimum and maximum temperature rasters)

**Notes:**

* Not all geodatabases contain all layers, they contain the layers where there is data for the watershed in question.
* A symbology file for the layer is included in the watershed zip file.
* A more detailed list of feature classes along with metadata can be found in the CHaMP\_GDB\_Metadata\_20150611.xls.

**Metadata is included for features and can be viewed through ArcCatalog.**

The NHD Flowline feature dataset has 4 separate metadata tables which are text files and viewable with any text editor. Current tables are for the 1 to 100K Hydrography not the 1 to 24K.

1. Sosc – Strahler order table.
2. NHDFlow: A flow table showing beginning and end of each network.
3. NHDFlowlineVAA – Value Added Attributes added via NHDPlus
4. NHDMetadata: NHD metadata table which can be linked to features.

**URLs for Data:**

1. National Hydrography Dataset (NHD) 1 to 24K Flowlines: <http://nhd.usgs.gov>
2. National Hydrography Dataset (NHD Plus) 1 to 100k Flowlines: <http://www.horizon-systems.com/nhdplus>
3. Landfire: <http://www.landfire.gov/>
4. Watershed Boundary Dataset (HUCs): <http://nhd.usgs.gov/wbd.html>
5. National Land Cover Dataset (NLCD): <http://www.mrlc.gov/>
6. PRISM Climate Group: <http://prism.oregonstate.edu/>
7. National Elevation Dataset (NED): <http://ned.usgs.gov/>
8. Ecoregions: <http://www.epa.gov/wed/pages/ecoregions.htm>
9. Tiger road products: <http://www.census.gov/geo/maps-data/data/tiger.html>
10. StreamNet fish data: <http://www.streamnet.org>
11. Evolutional Significant Units (ESUs): <http://www.nwfsc.noaa.gov/trt/mapsdata.cfm>