



High Resolution Elevation Data Delivery Guide

Presentation portion by Kim Robinson

Introductory Information

- The purpose of this presentation is to detail and clarify the information given in the “High Resolution Elevation Data Delivery Guide” used for preparing data for the NED.

This presentation was created using the “High Resolution Elevation Data Delivery Guide” provided to the NGTOC by Gayla Evans at EROS. This is a working document

There is additional information from notes taken by Kim Robinson (Denver NGTOC) at the LIDAR QA training given at EROS in April 2011

Contents of Presentation

- Naming Conventions for both ARRA and Non-ARRA projects
- Organization of hard drives delivered to EROS
- Folder Organization
 - Click Folder
 - NED Folder
 - Metadata Folder
 - Other Folder
- Transmittal Document
- QA Report
- Final delivered DEM requirements

Naming Convention for NON-ARRA Data

- The naming convention refers to what the project must be called.
 - Use in transmittal document and in the QA report.
- Naming convention for a NON-ARRA project
 - “State Abbreviation”_ProjectName_collection year
 - AK_Cell11_2010.
 - It is very important that there are only TWO underscores (between state name and project, and project and collection year)
 - Hyphens may be used
 - No spaces

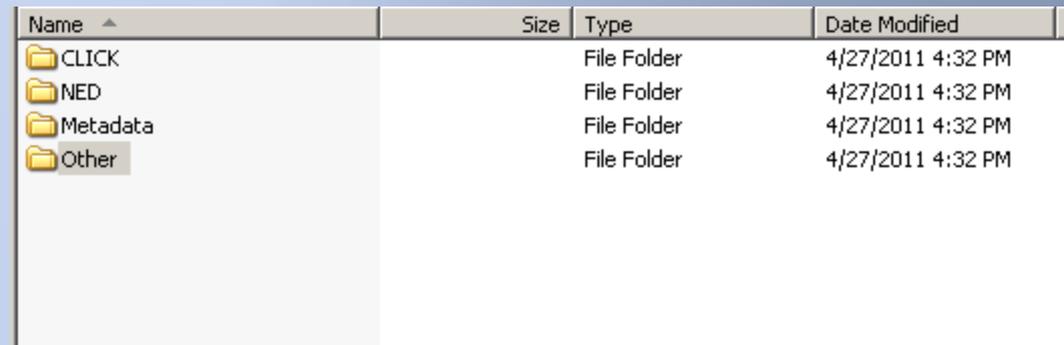
Naming Convention for ARRA Data

- The naming convention for ARRA projects designates these from all other projects
 - Use in the transmittal document and QA report
- Actual format for ARRA project name
 - ARRA-CO_GrandCounty_2010
 - It is very important that there are only TWO underscores (between state name and project, and project and collection year)
 - Hyphens may be used
 - No spaces

Organization of the External Hard Drives Delivered to EROS

- There must be four folders on the External Hard Drive delivered to EROS

- CLICK
- NED
- Metadata
- Other



Name	Size	Type	Date Modified
CLICK		File Folder	4/27/2011 4:32 PM
NED		File Folder	4/27/2011 4:32 PM
Metadata		File Folder	4/27/2011 4:32 PM
Other		File Folder	4/27/2011 4:32 PM

- These folders must be in this format.

CLICK Folder

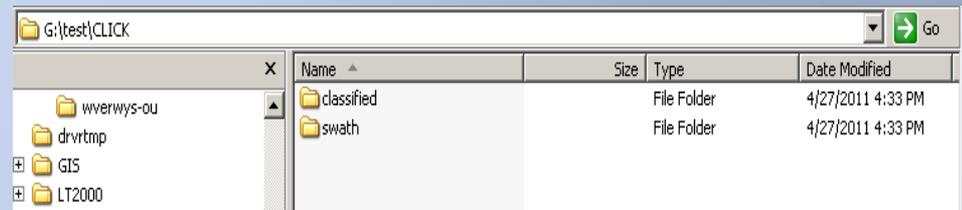
- The CLICK folder will only contain .las files
- There should be two subfolders in the CLICK Folder

- **Classified**

- This folder will hold all CLASSIFIED .las files from a project

- **Swath**

- This folder will hold all RAW or SWATH .las files from a project



NED Folder

- The NED folder will contain additional project data.
- The NED folder will contain *some combination* of the subfolders listed below. Please use exact formatting.
 - **be_points**
 - Contains bare earth lidar point files in any format
 - **be_rasters**
 - Contains Bare-Earth raster/TIN surfaces. These are tiled.
 - **be_terrains**
 - Contains geodatabase. This is a single dataset not cut into tiles. It is a deliverable that is NOT OFTEN RECEIVED.
 - **breaklines**
 - **FINAL_TO_NED**
 - Contains the final mosaicked DEM. Native Projection, Resolution, and Format.
 - **Errors**
 - Contains any geotiffs or shapefiles created at NGTOC showing errors that were found in the dataset and sent to contractor/flagged by reviewer.

Name ^	Type	Date Modified
be_points	File Folder	4/27/2011 4:34 PM
be_rasters	File Folder	4/27/2011 4:34 PM
breaklines	File Folder	4/27/2011 4:34 PM
Final_To_NED	File Folder	4/27/2011 4:35 PM
be_terrains	File Folder	4/27/2011 4:41 PM
errors	File Folder	4/27/2011 4:43 PM

Metadata Folder

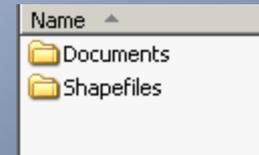
- All data sent to EROS must have adequate Metadata. Metadata must be an XML file.
- The Metadata folder will contain the following subfolders listed below. Please keep exact formatting.

- **Documents**

- This folder will contain all reports, XMLs, DOCs, PDFs reference shapefiles, reference CAD files, QA report

- **Shapefiles**

- This folder will contain any footprints, tiling scheme shapefiles, any check point shapefiles, or other shapefiles sent by the contractor.



Other Folder

- This folder will contain any extra items.
- There is no set sub-folder naming convention. It is acceptable to use folder names as they are.
- Below is a list of examples of items that can go into the Other folder
 - All – Return Lidar point files, other formats
 - 1st return lidar point files, any format
 - 1st return raster/TIN surfaces
 - Video files
 - All other data files not mentioned in the previous three folders

Transmittal Document

- Must be included BOTH in the delivery package and in an email to Jordan Menig at the time of shipment
- Please include the following information on the Transmittal document
 - Name of project being delivered
 - Date shipped by NGTOC
 - Return address and Info
 - Data prepared by
 - Delivery Status: Choose from below
 - Complete project delivery
 - Partial Project delivery
 - Replacement project delivery
 - Addition to previously delivered project

QA Report

- Please ensure that the following is shown/correct and document in QA report
 - Projection and projection parameters
 - NAD83 Horizontal and NAVD88 Vertical Datums
 - Horizontal Units
 - Data format must be 32-bit floating point
- Please also document the following in the QA report
 - Which source metadata file is best for NED to use
 - Any processing steps done at NGTOC
 - Any fixes done to data
 - Examples of errors seen in project

Final DEM

- The final DEM delivered to the NED must meet the following requirements
 - Preferred formatting: .img or ArcGrids
 - The file name must have no periods. Only use underscores or hyphens.
 - Example file name: ARRA-CO_GrandCounty_2010
 - Waterbodies greater than 2.0 acres must be flattened
 - DEM must be mosaicked into largest possible pieces. Keep native projection and resolution
 - Fill in small data voids
 - Remove any erroneous tinning on edges
 - Regrid areas with missing point information

