
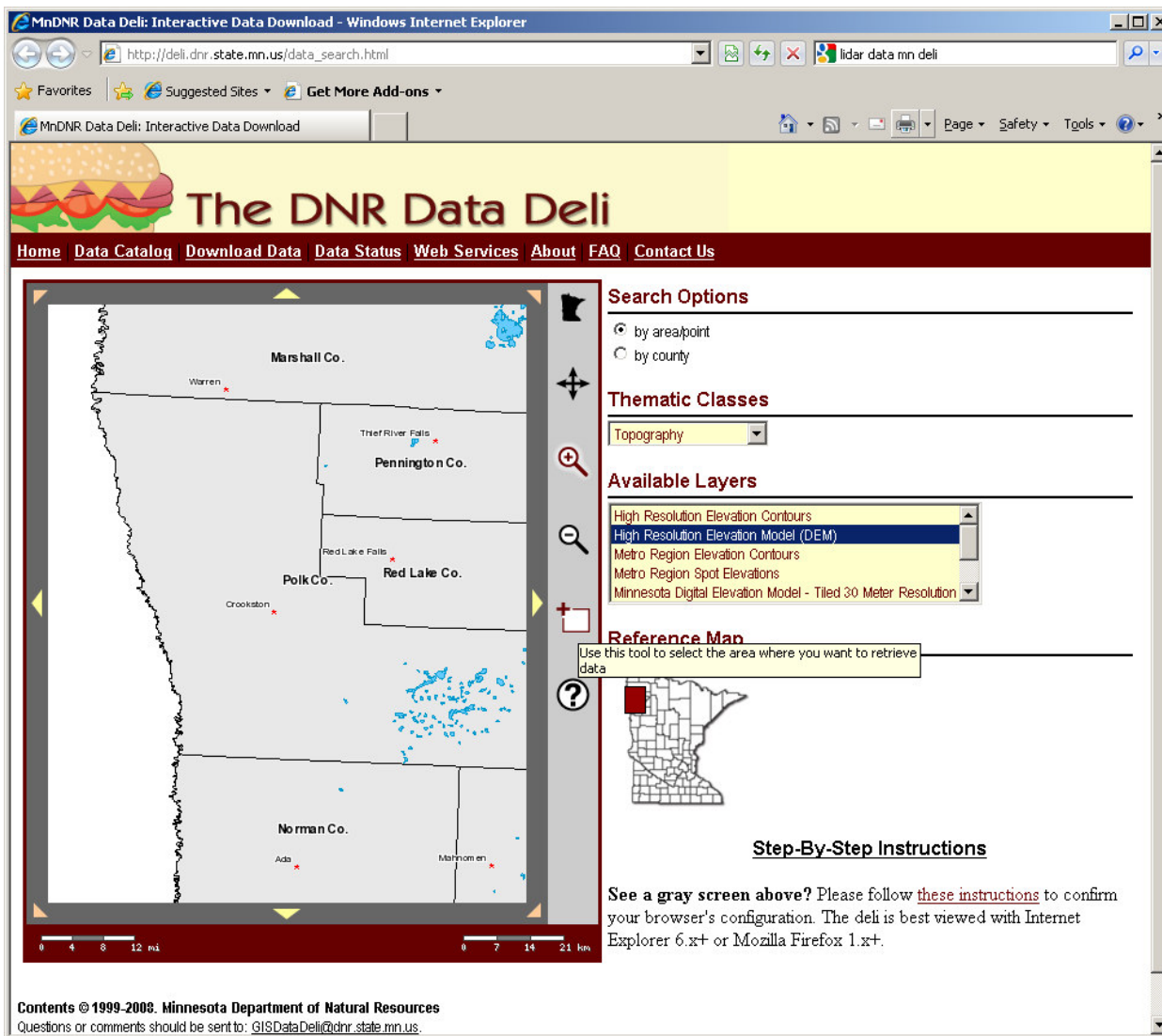


# Downloading & Processing LIDAR Data

LIDAR (Light Detection and Ranging) data is elevation taken using an airplane. The data is collected using a laser and measuring the reflectance. The accuracy is within 6 inches and the resolution is 2 meters.

## Minnesota – Downloads

- [http://deli.dnr.state.mn.us/data\\_search.html](http://deli.dnr.state.mn.us/data_search.html)
- Once at the site select the settings like shown below.
- Use the Zoom Tools to get yourself to the location you want
- Finally select the location using the  to choose the area to “Retrieve Data”



**Search Options**

by areapoint  
 by county

**Thematic Classes**

Topography

**Available Layers**

High Resolution Elevation Contours  
High Resolution Elevation Model (DEM)  
Metro Region Elevation Contours  
Metro Region Spot Elevations  
Minnesota Digital Elevation Model - Tiled 30 Meter Resolution

**Reference Map**

Use this tool to select the area where you want to retrieve data

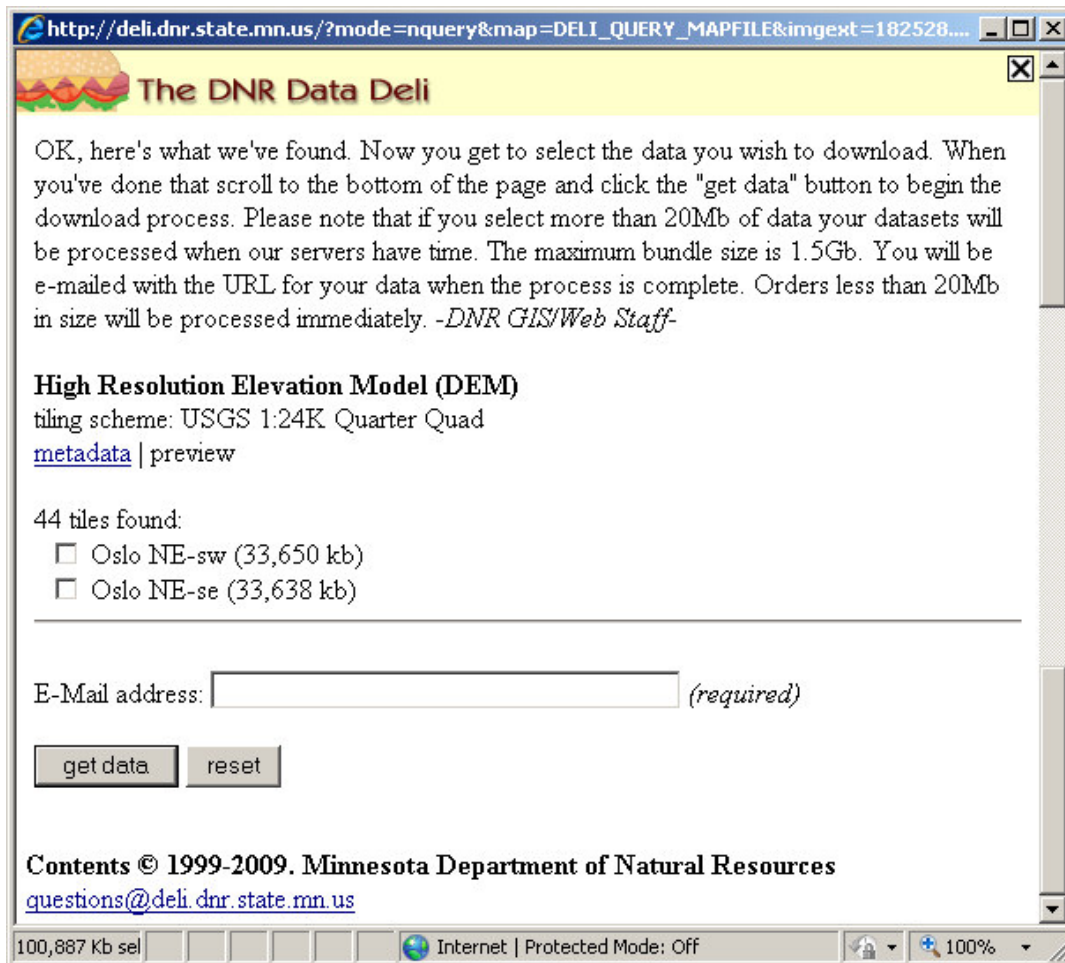
**Step-By-Step Instructions**

See a gray screen above? Please follow [these instructions](#) to confirm your browser's configuration. The deli is best viewed with Internet Explorer 6.x+ or Mozilla Firefox 1.x+.

Contents © 1999-2008. Minnesota Department of Natural Resources  
Questions or comments should be sent to: [GISDataDeli@dnr.state.mn.us](mailto:GISDataDeli@dnr.state.mn.us).

# Downloading & Processing LIDAR Data

- Once you "Select" your area it will open a download page. It is recommend to download the "Quarter Quad [metadata](#) | preview". This will help you get a geographic location of all the images.
- Check all the files you want to download. Type in you email address and wait for them to email you a download link.



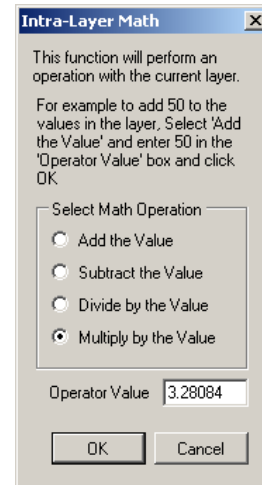
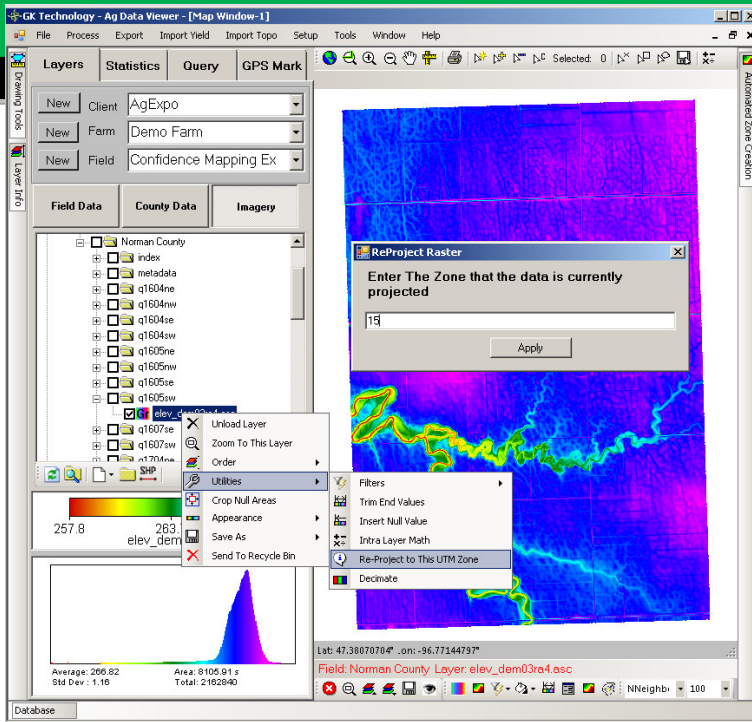
GK Tech is still looking for data links for downloading ND data.




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All the MN data is downloaded in UTM zone 15.

- All MN LIDAR images are originally projected into UTM 15
- When you open Ag Data Viewer, select yourself into the correct UTM. If you're in UTM 14, turn on the elev\_drgxxx.asc, "Right Click" and "Utilities" and "Re-Project to This UTM Zone".
  - o Re-projecting to UTM 14 type in "15" in the Re-Project Raster window

# Downloading & Processing LIDAR Data



- The elevation data is in Meters. Click on  $\times \div$  and multiply by 3.28084 to get back to feet.
- Once projected to the correct UTM and in feet. Click on  on the bottom toolbar.
- Save the "elev\_demxxx.asc" as a .grd format.
- Turn on your field boundary and select  and click inside your boundary.
- Select your elev\_demxxx.grd and go to the bottom toolbar  "Crop Raster to Selected Polygon"
  - o You may need to use a slightly smaller boundary due to resolution/ditches/dikes.
  - o Notice the boundary in example below vs. the FSA boundary

- Save the elev\_demxxx.grd back to the "Field" folder.
- Treat this data as you would any other topography data.

