

# High Resolution Elevation QA Review Report

Project: Iowa NE 01-18 Lidar 2010 Contract ID:

Liaison: Bob Lermen Partner(s): Contractor: Sanborn Map Co. Inc

Data Delivery Date: 02/10/2009, 07/09 Date Data Reviewed: 07/29/2010 - 08

Reviewer: Rusty Grout / Eric Jaramill Total Square Miles Reviewed: 5144.5 sq. mi

Elevation Type: LIDAR Format: xyz Grid Spacing: 1 meter Tile size: 1000 x 1000

Projection: UTM Zone: 15 Datum: NAD83 Units: Meters

Licensing: Public Domain Metadata: Project Level Acquisition Date: 04/07/2007 thru

## Materials Received:

Bare earth ASCII .xyz files  
Las point cloud .xyz files  
Metadata  
Shape files

Vertical Accuracy Test Performed: Yes Test Point Source: USGS RMSE: 0.272 meters

## Vertical Accuracy Test Notes:

A vertical check was performed on Iowa NE 01-18 bare earth data. See the Iowa Statewide Lidar Project Vertical Accuracy Report sent with the final .img data.

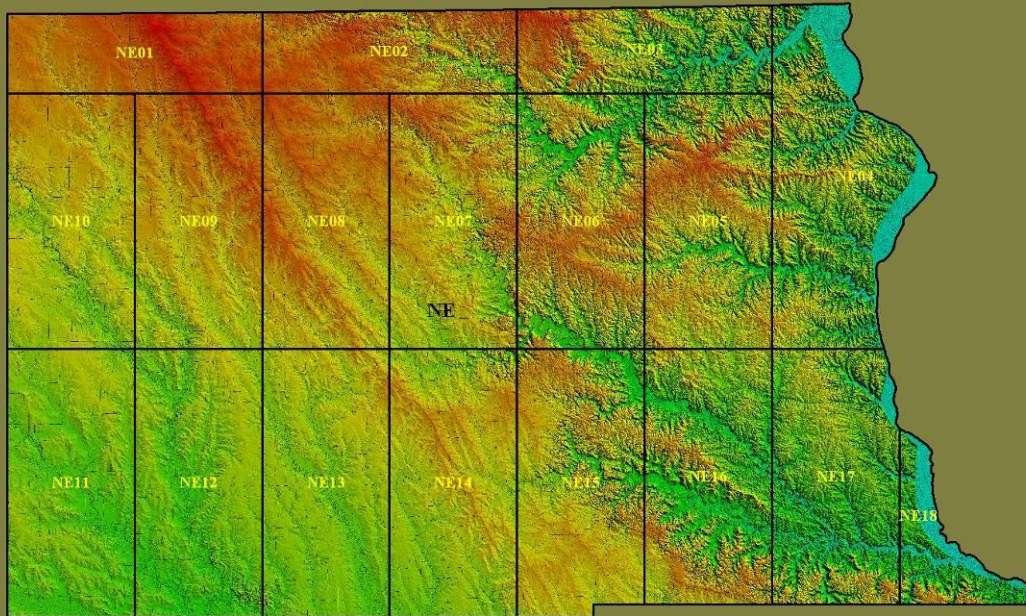
## QA Review Summary:

All of Iowa NE 01-18 one meter Lidar data was reviewed. This data was brought into Global Mapper as .xyz point files. Las point files were created from the .xyz files then gridded to 1 meter data for QA/QC. Errors found throughout this project and fixed in Global Mapper are ( bridges not taken out, areas and bldgs need to be leveled spiking, (errors found on this project and fixed by the contractor are missing data see examples below) . This data was regridded to 1 meter .img files. This data is accepted and will be archived.

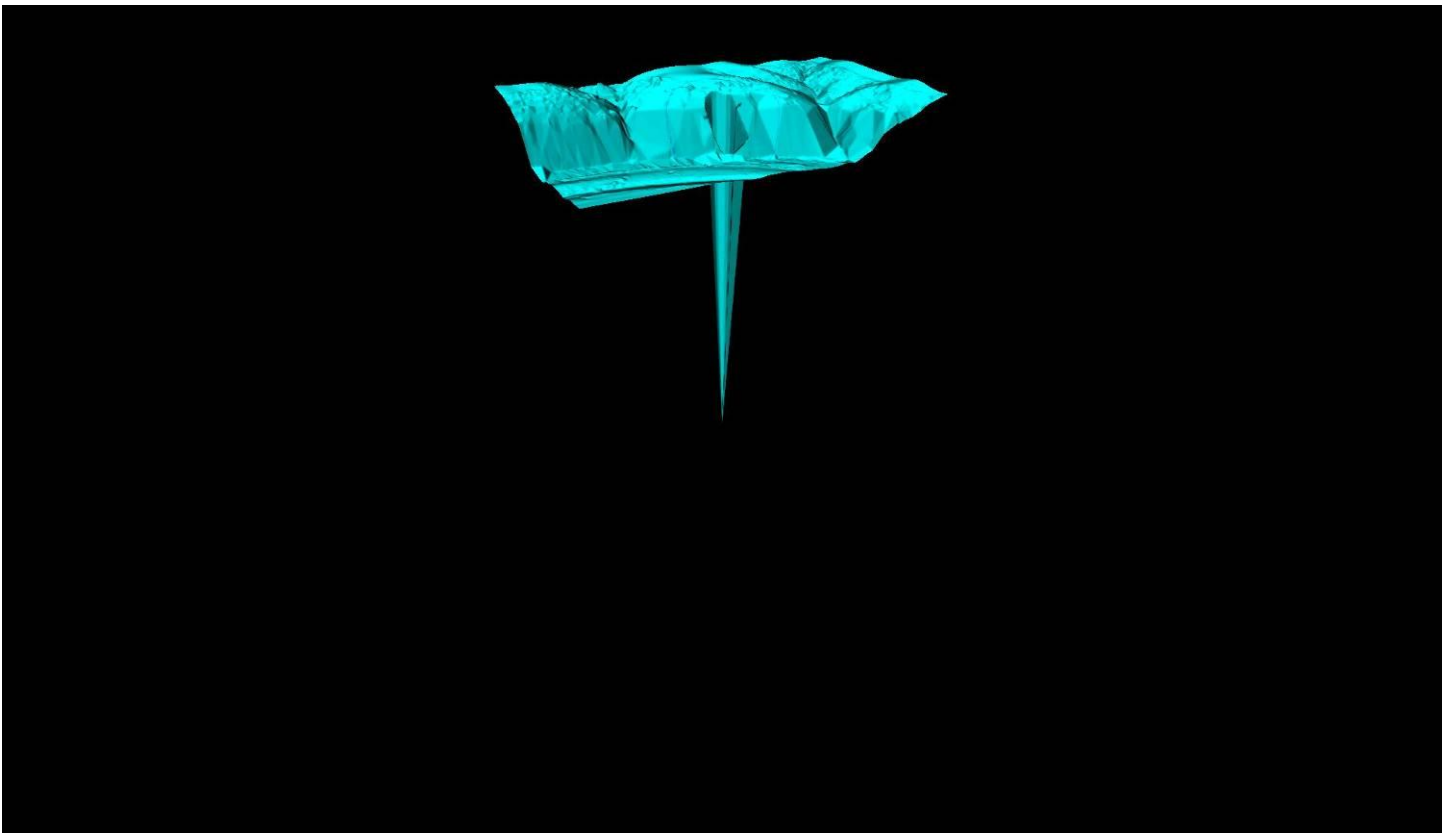
See error JPEG examples and documents attached below.

Conclusions: 1. 89% of artifacts removed  
2. 90% of vegetation removed  
3. 95% of buildings removed

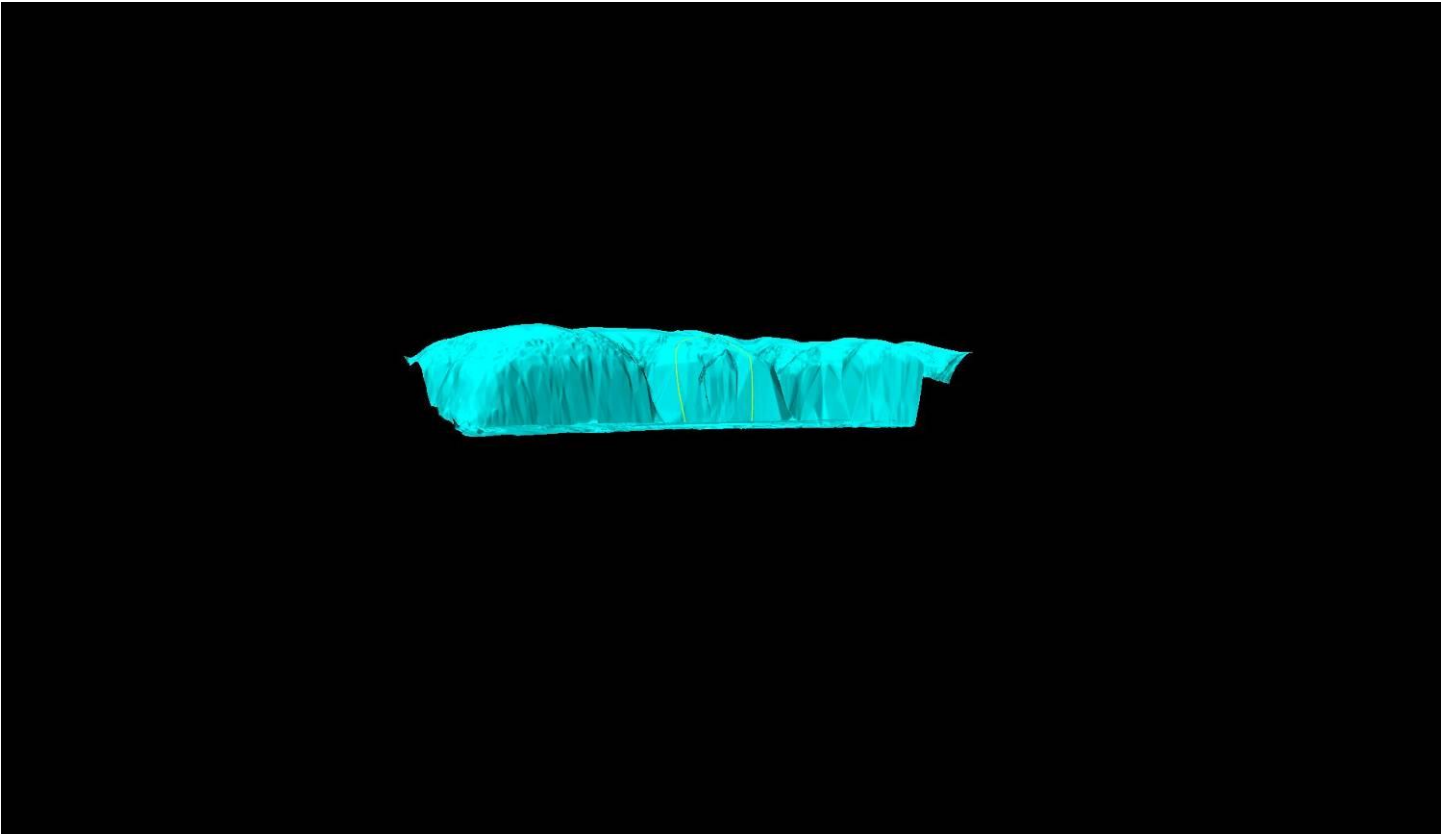
## Iowa NE 01-18



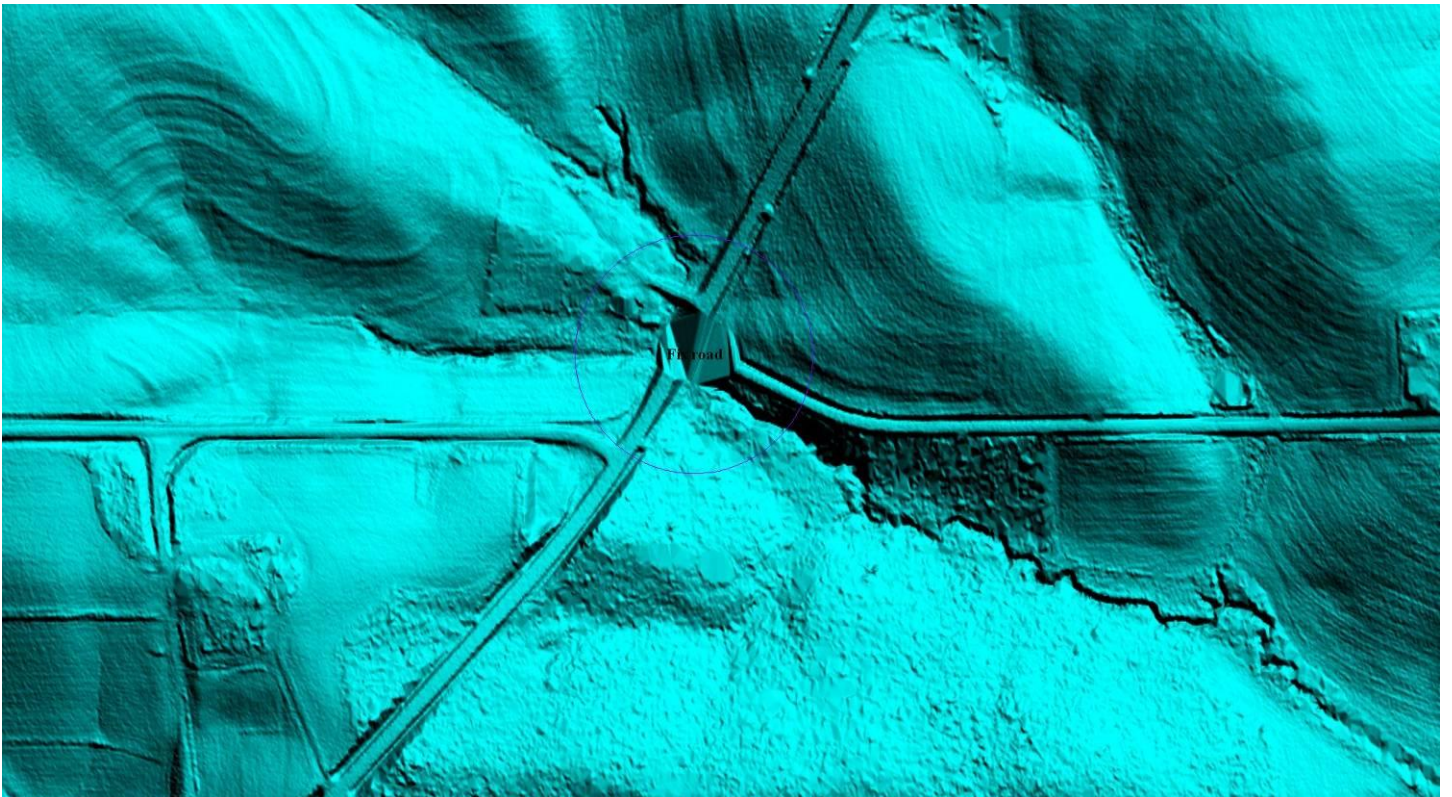
## Iowa NE02 elevation error



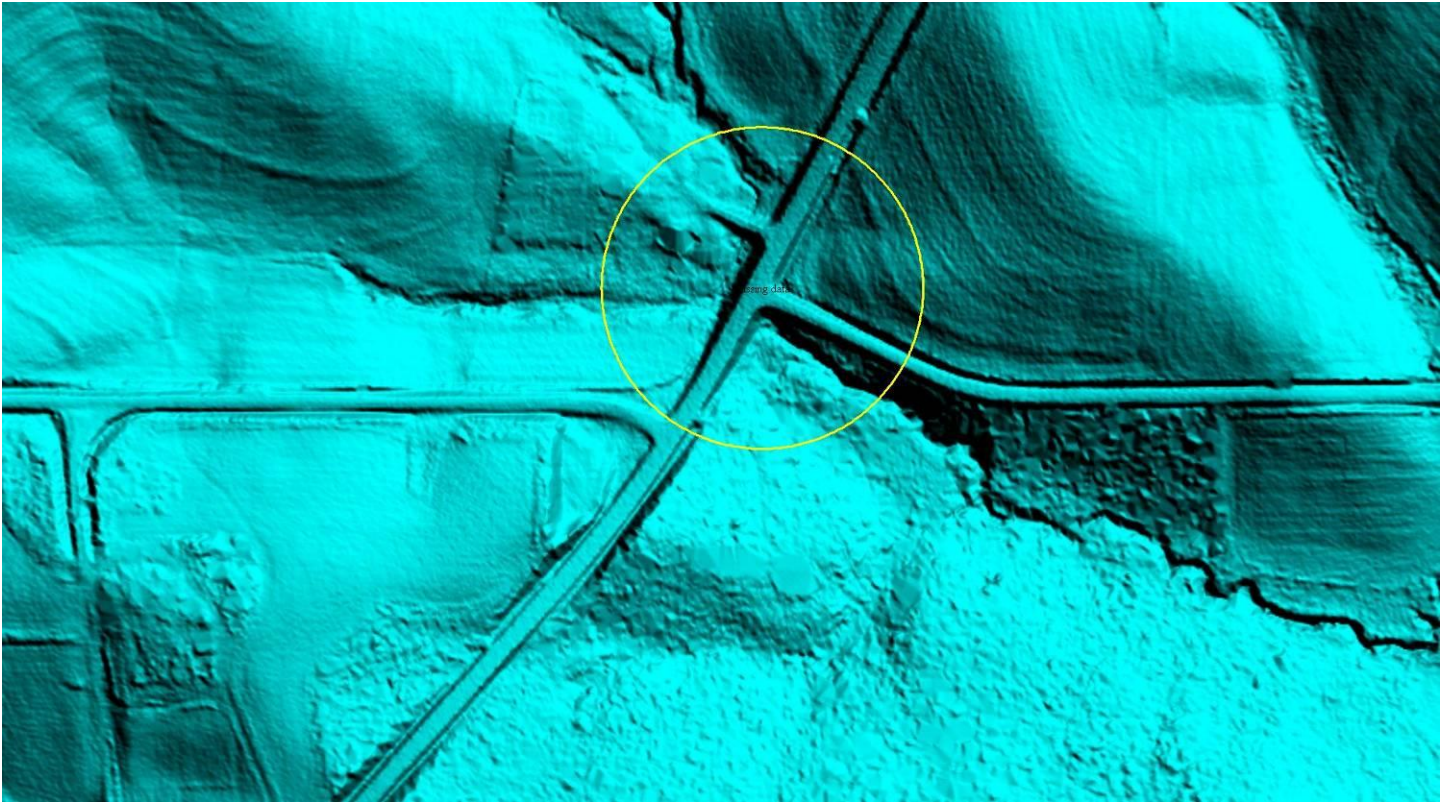
Iowa NE02 elevation error (Fixed)



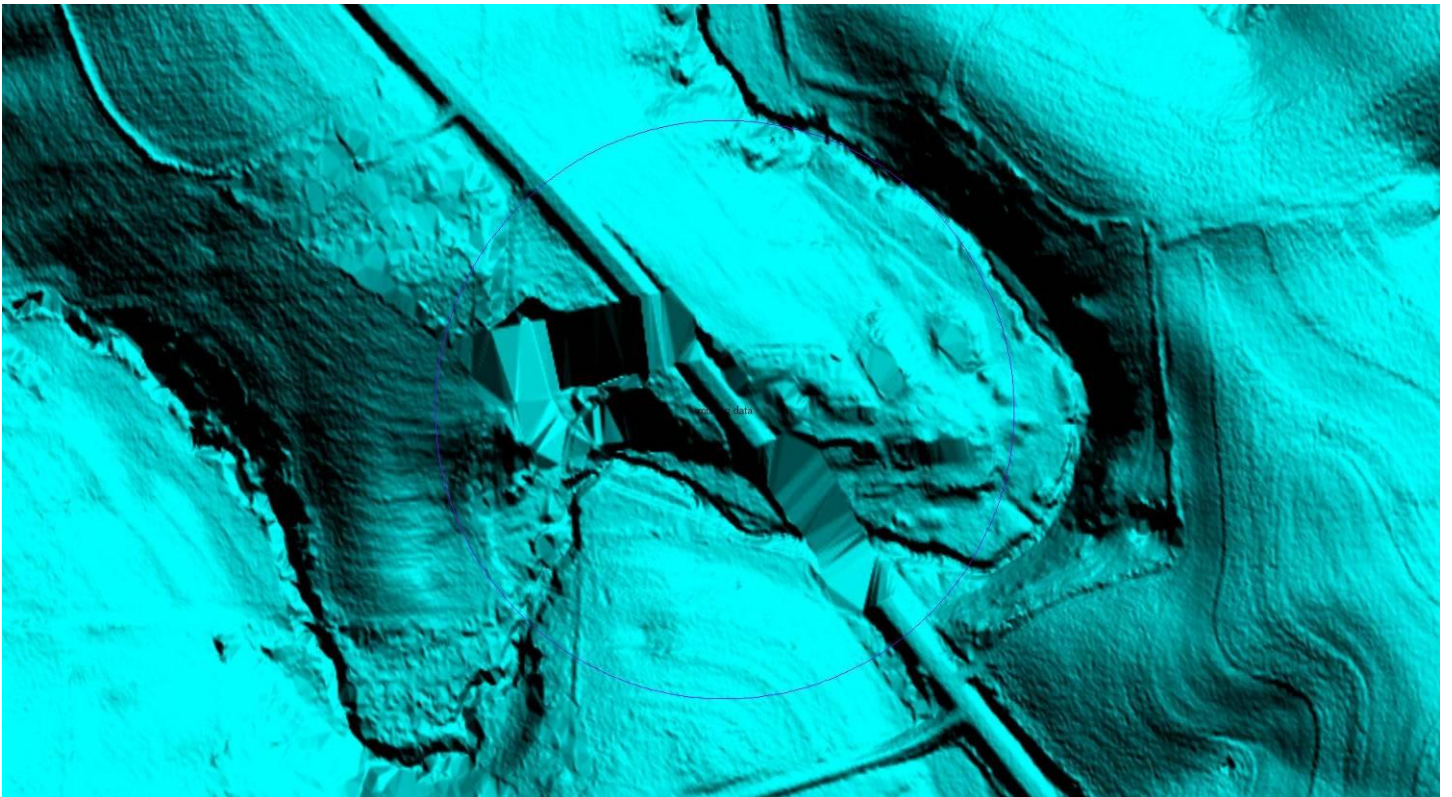
Iowa NE05 missing data 1



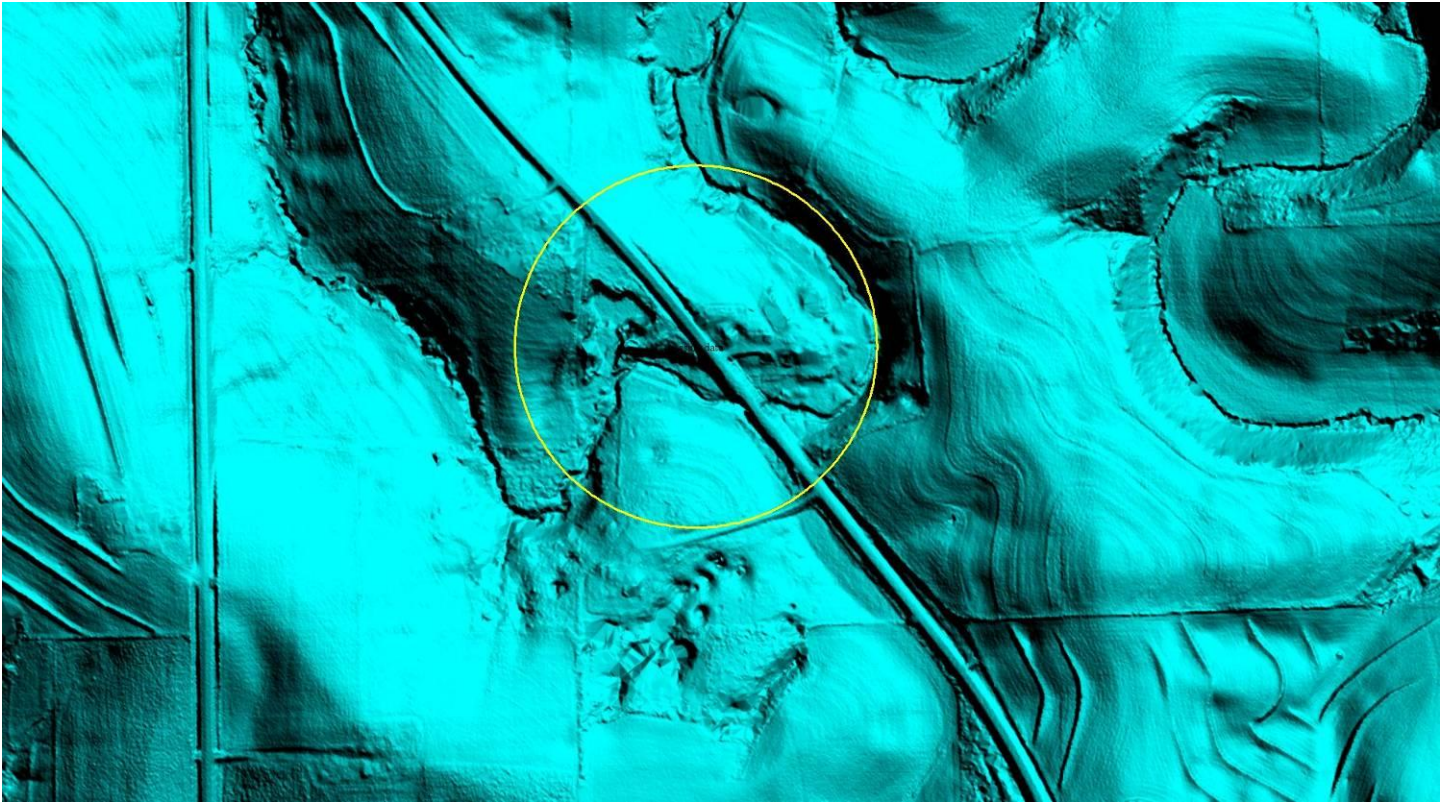
Iowa NE05 missing data 1 (Fixed)



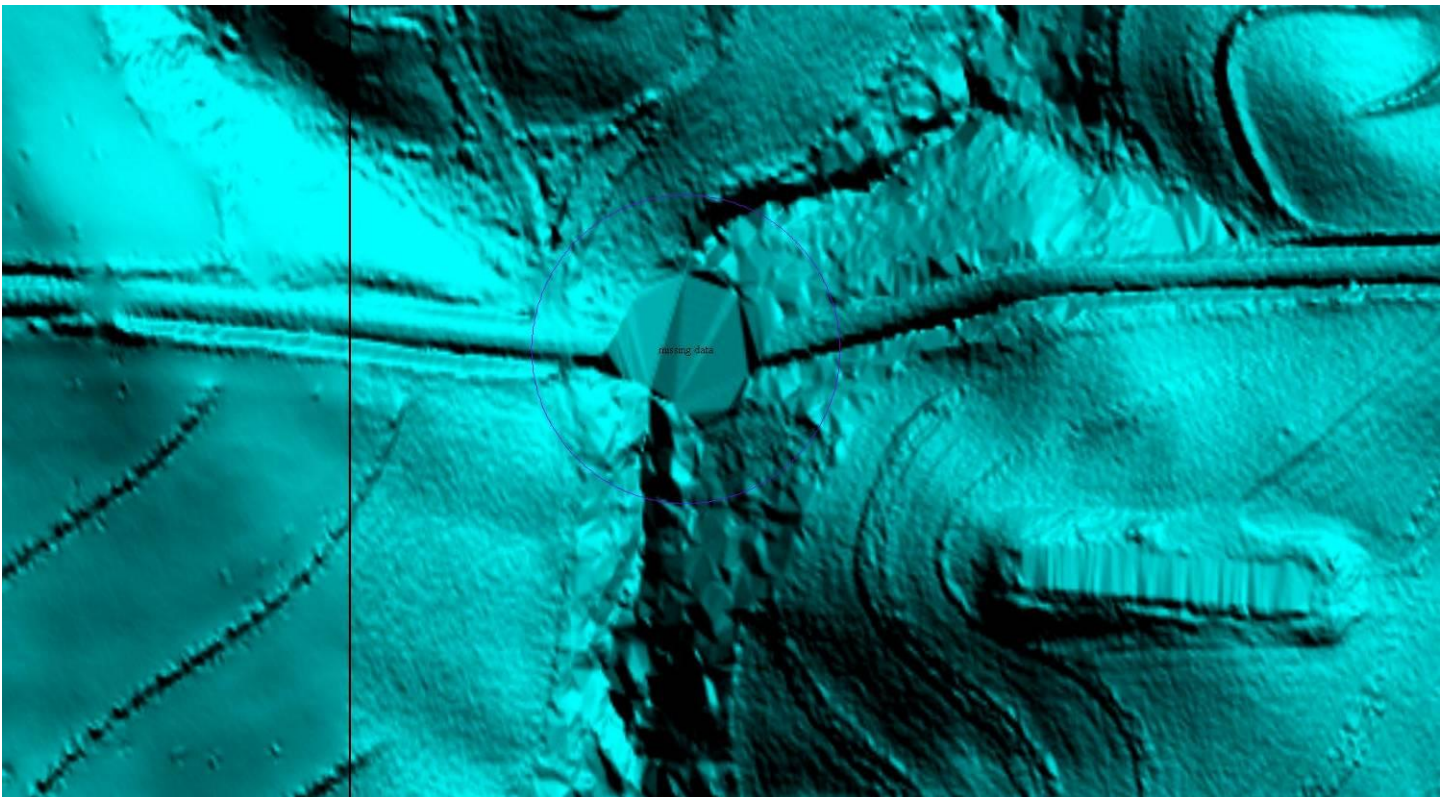
Iowa NE05 missing data 2



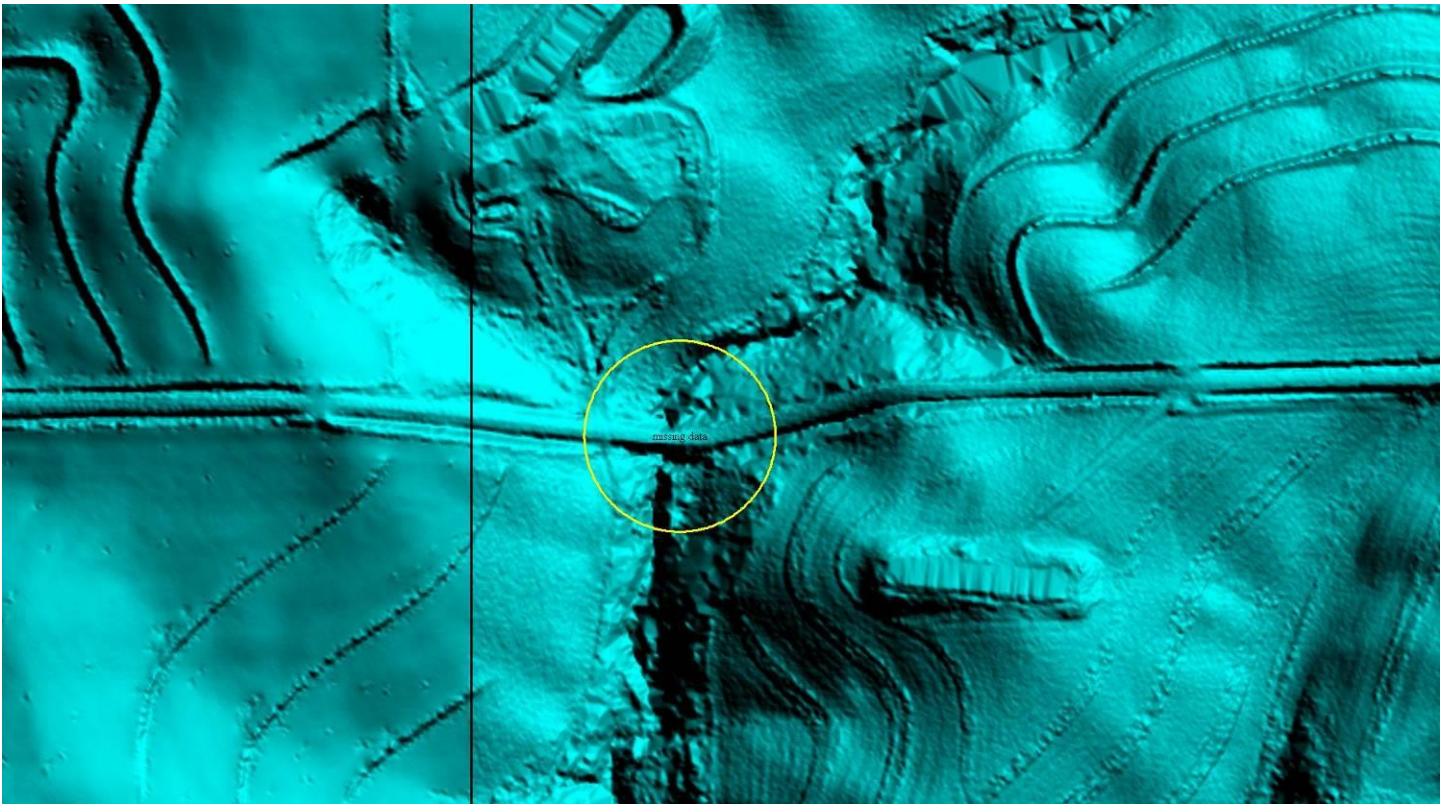
Iowa NE05 missing data 2 (Fixed)



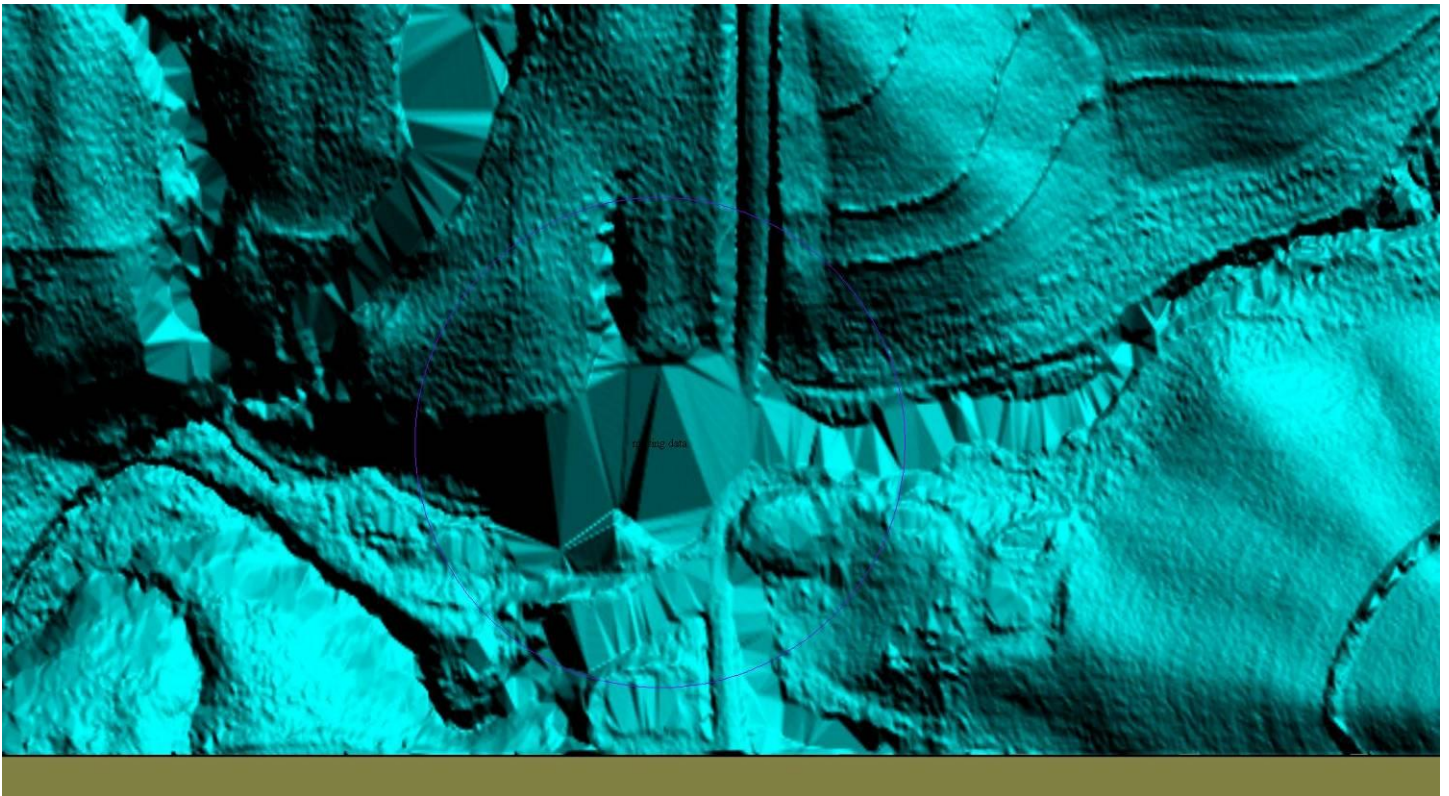
Iowa NE05 missing data 3



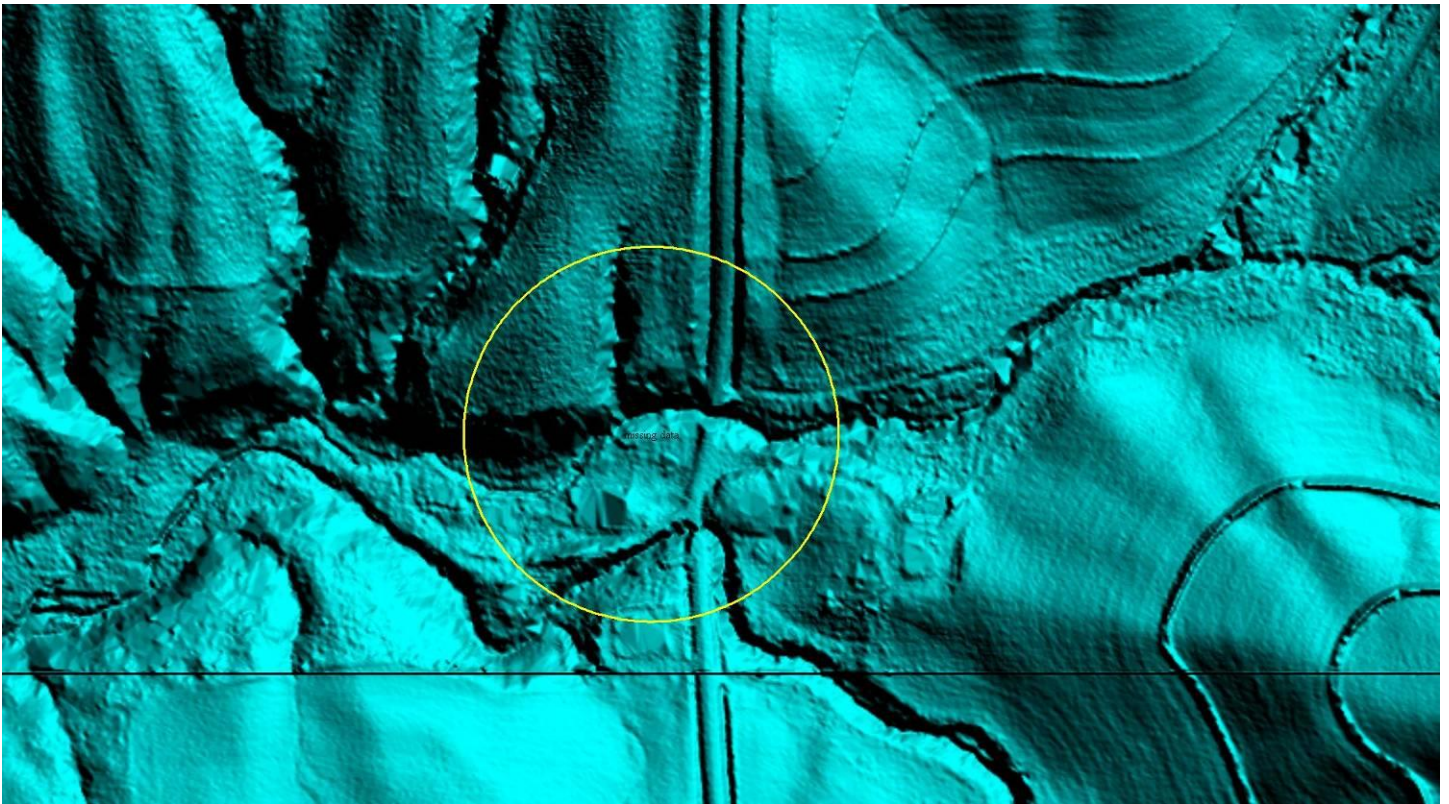
Iowa NE05 missing data 3 (Fixed)



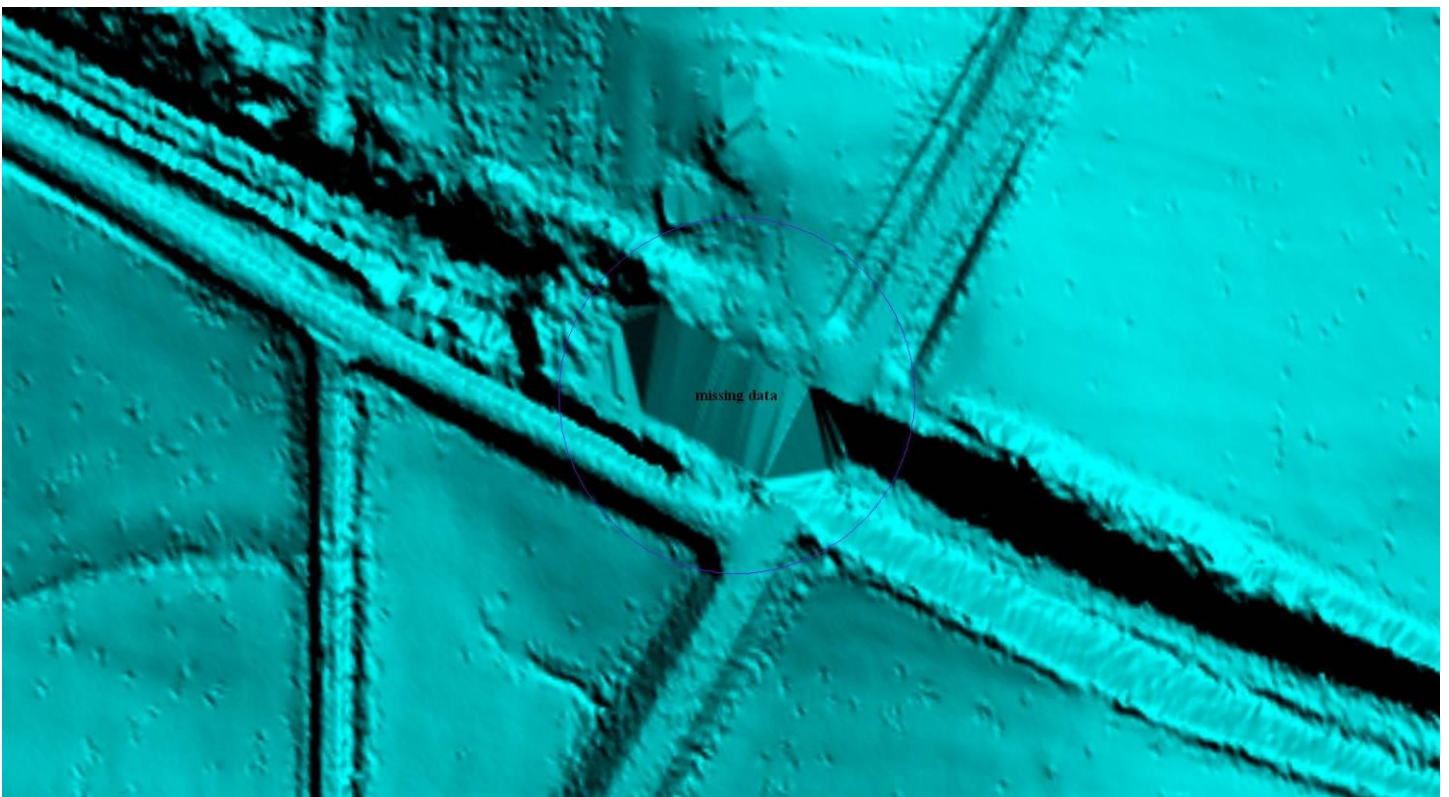
Iowa NE05 missing data 4



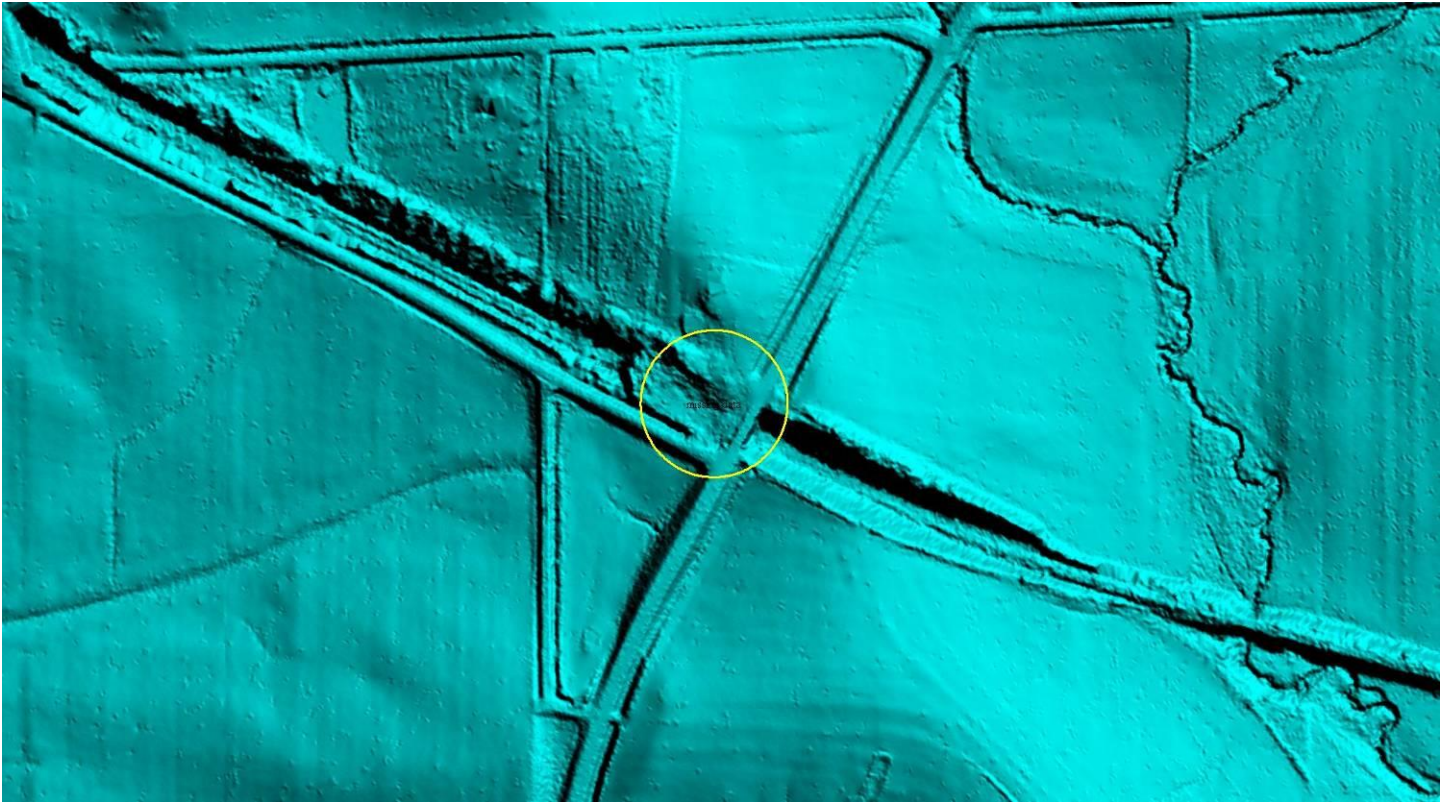
Iowa NE05 missing data 4 (Fixed)



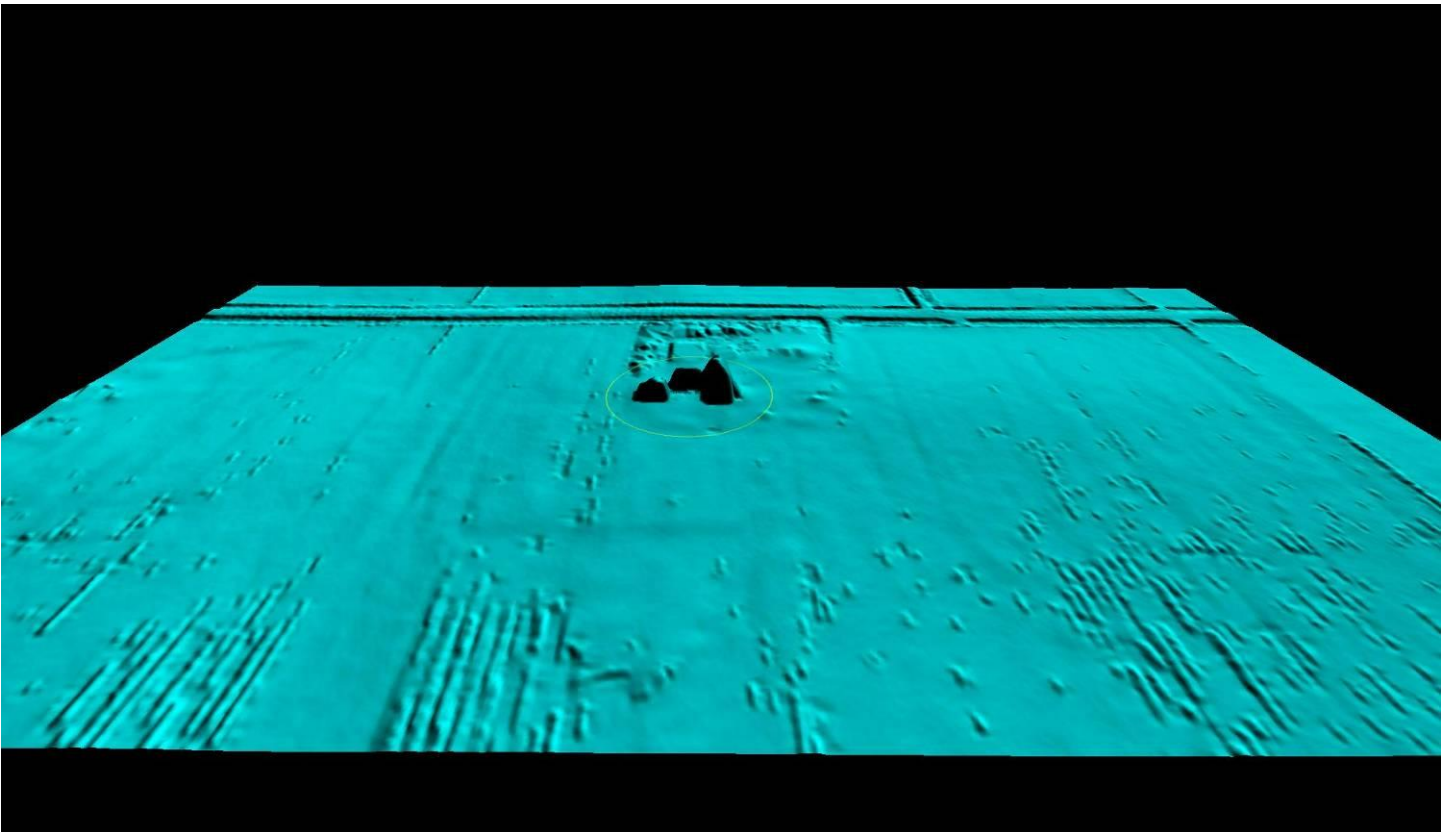
Iowa NE14 missing data



Iowa NE14 missing data (Fixed)

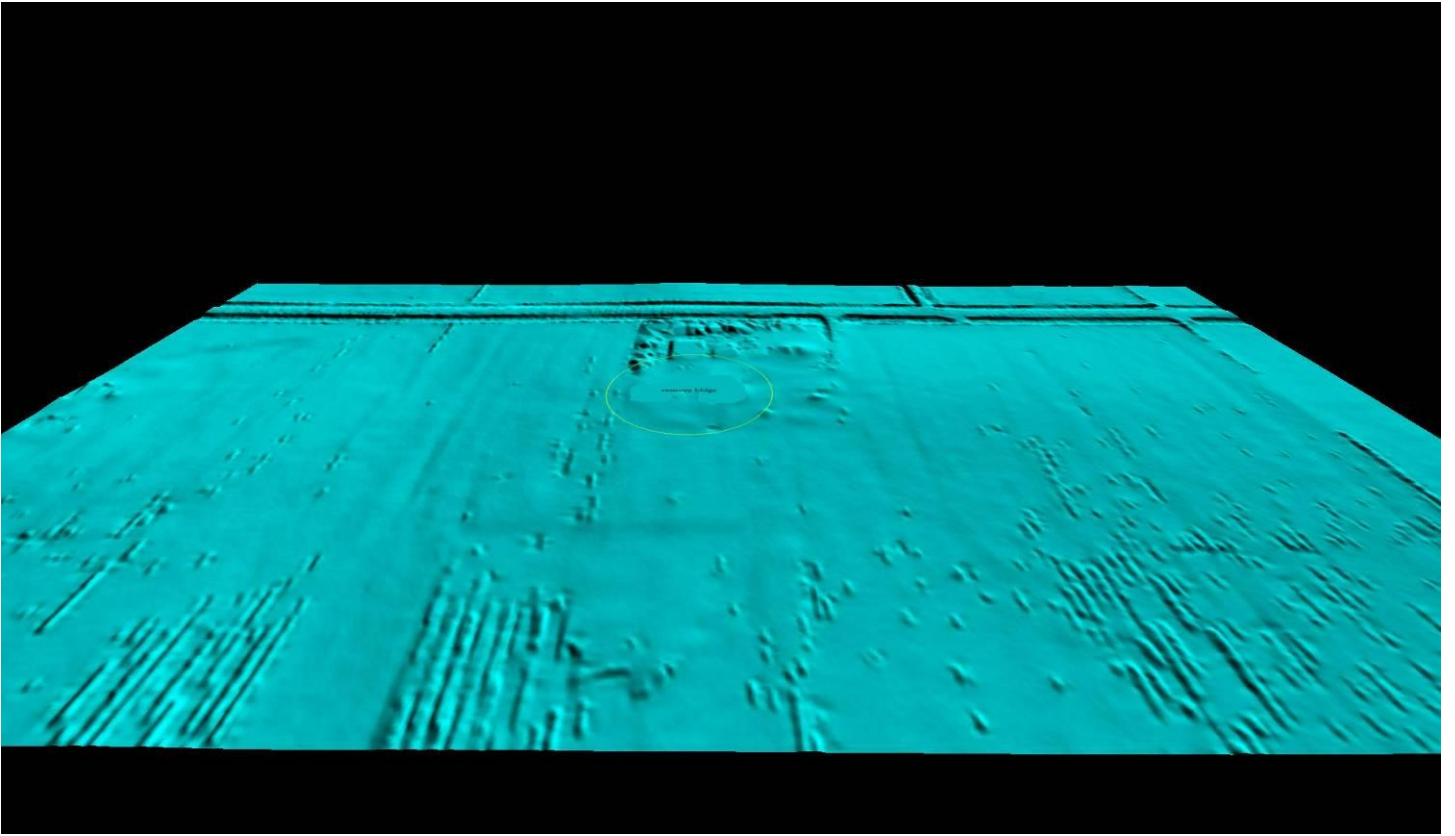


Remove bldgs

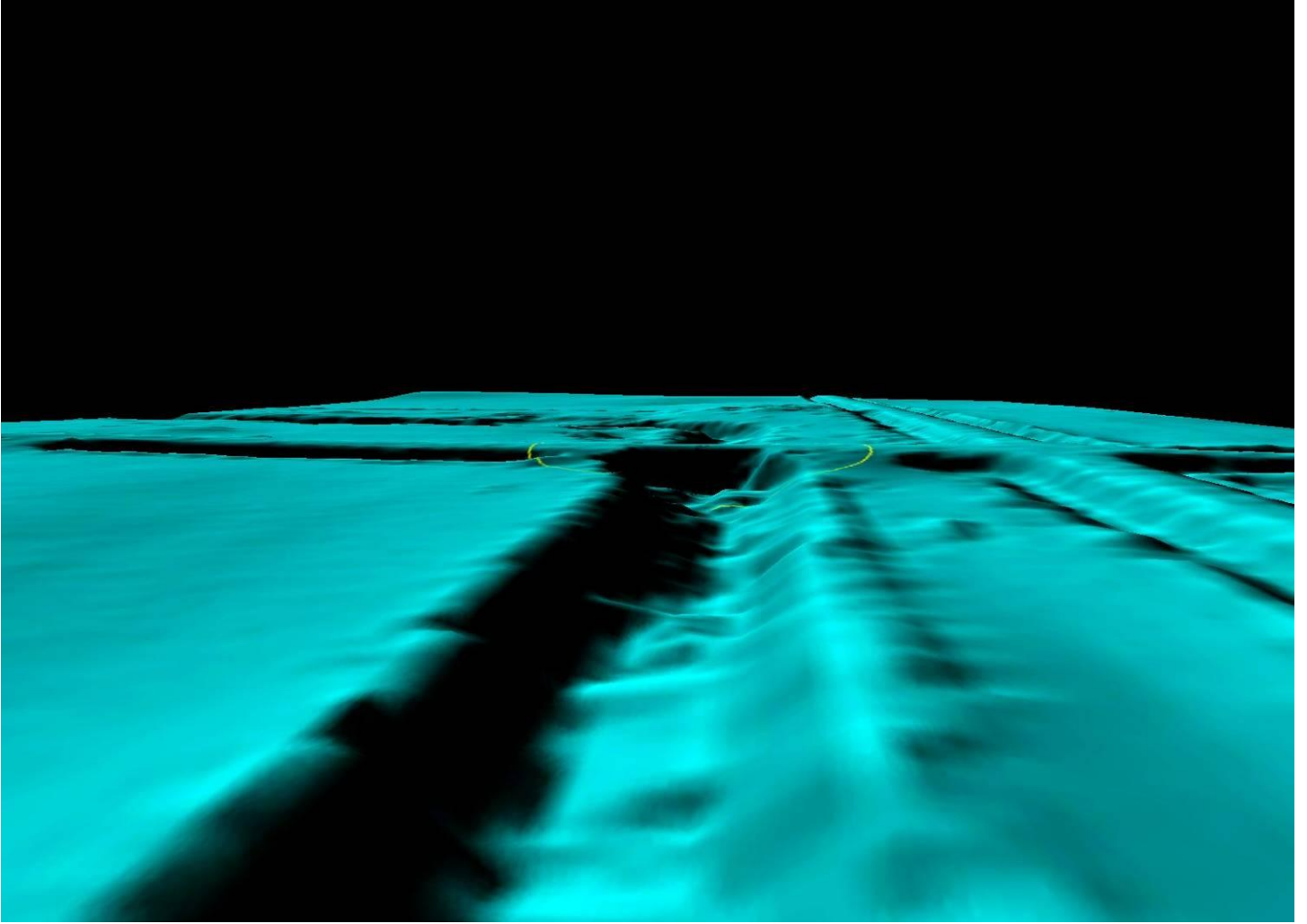




Remove bldgs (Fixed)



Remove bridge



Remove bridge (Fixed)

