

## NORTH CAROLINA GEODETIC SURVEY

Claude T Bowers Building  
4105 Reedy Creek Road  
Raleigh, North Carolina 27607  
(919)733-3836



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## Project Information

Prepared By: Watson Ross  
Project Name: 2016 LiDAR Phase 4 QC  
Sensor Info: GmAPD Geiger-mode  
Required Nominal Pulse Spacing: 0.35  
Vendor Name: Harris  
Units: US Survey Feet  
Percent of Extent Tolerance: Extents Not Checked  
Date of Aquisition: Start: 2/27/2016 Finish: 4/17/2016

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## Metadata Information

### Tile Index:

Filename: alexander\_tiles.shp

Number of Polys: 0

### Intensity:

Tile Index Attribute: Not Specified

Data Filename: Not Specified

Number of Data Files Matching Attribute: Not Specified

### DEM:

Tile Index Attribute: Not Specified

Data Filename: Not Specified

Number of Data Files Matching Attribute: 2533 out of 2533

### LAS:

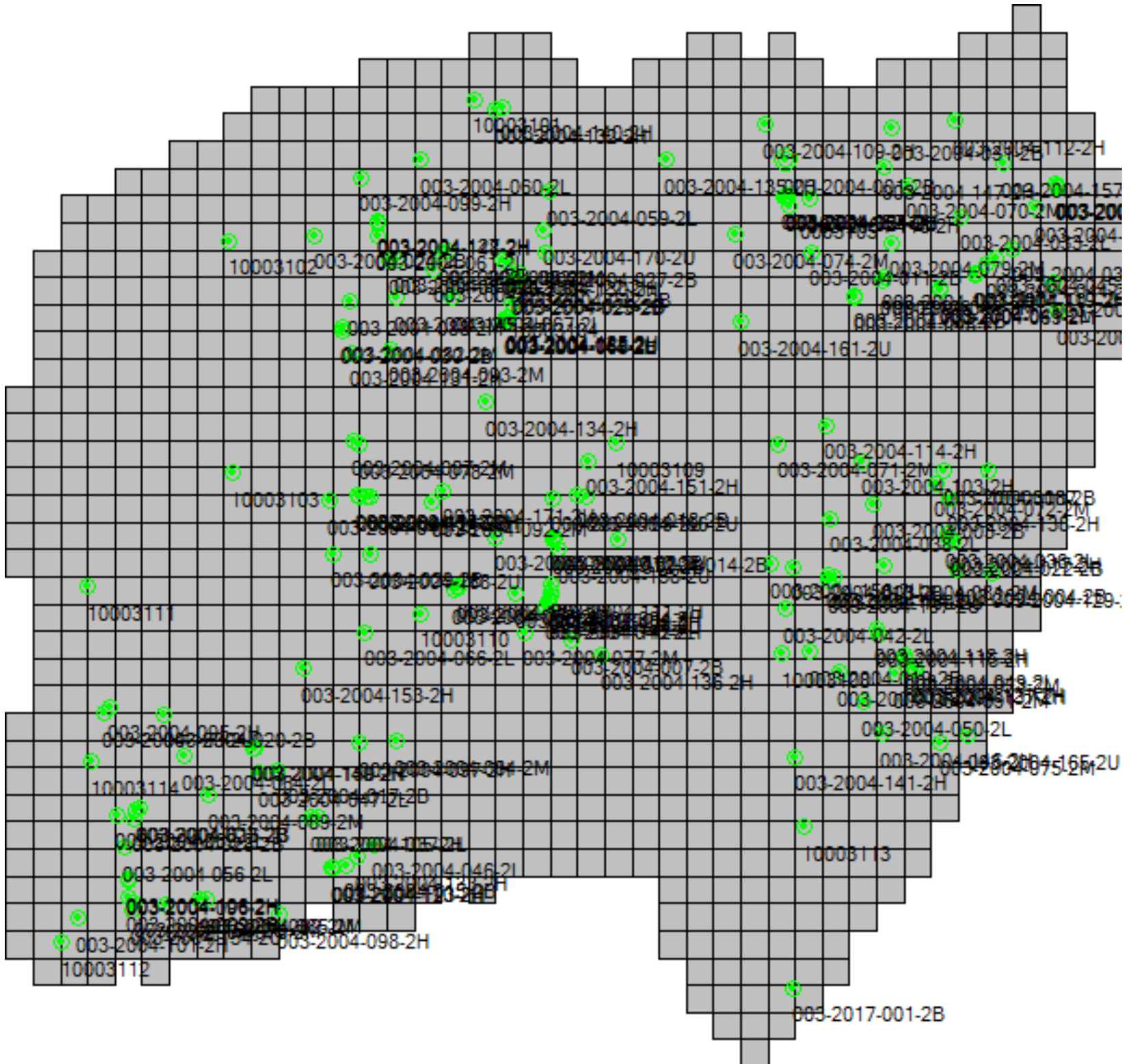
Tile Index Attribute: las\_tile

Data Filename: LAS

Number of Data Files Matching Attribute: 1194 out of 1194



# Tiled-Data Area





LiDAR Accuracy Assessment Summary

LC Type	# of Points	NVA	VVA	
LAS				
2B	33	0.454		
2H	60		0.508	
2L	35		0.394	
2M	26		0.499	
2U	32	0.396		
Total	186			

Units: US Survey Feet

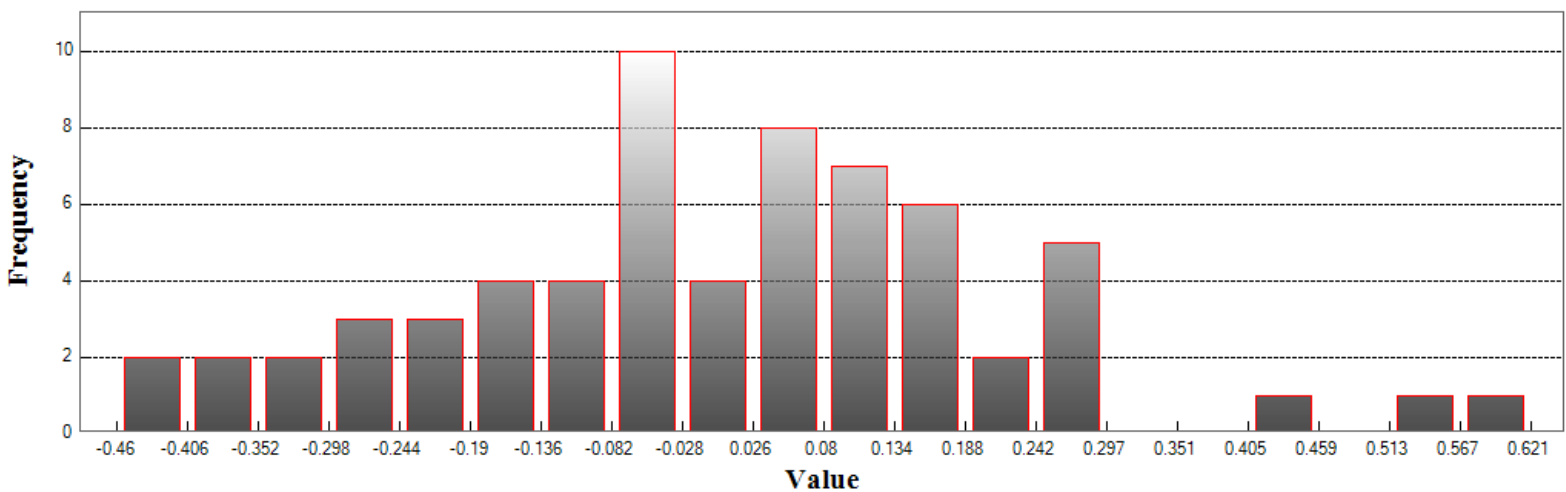


# LAS

## Nonvegetated Vertical Accuracy

LandCover Type: 2B, 2U  
Minimum DZ: -0.46  
Maximum DZ: 0.621  
Mean DZ: 0.001  
Mean Magnitude DZ: 0.41  
Number Observations: 65  
Standard Deviation DZ: 0.219  
RMSE Z: 0.218  
95% Confidence Level Z: 0.427  
Units: US Survey Feet

# Histogram



Min: -0.46  
Max: 0.621  
Number Of Bins: 20  
Bin Interval: 0.054

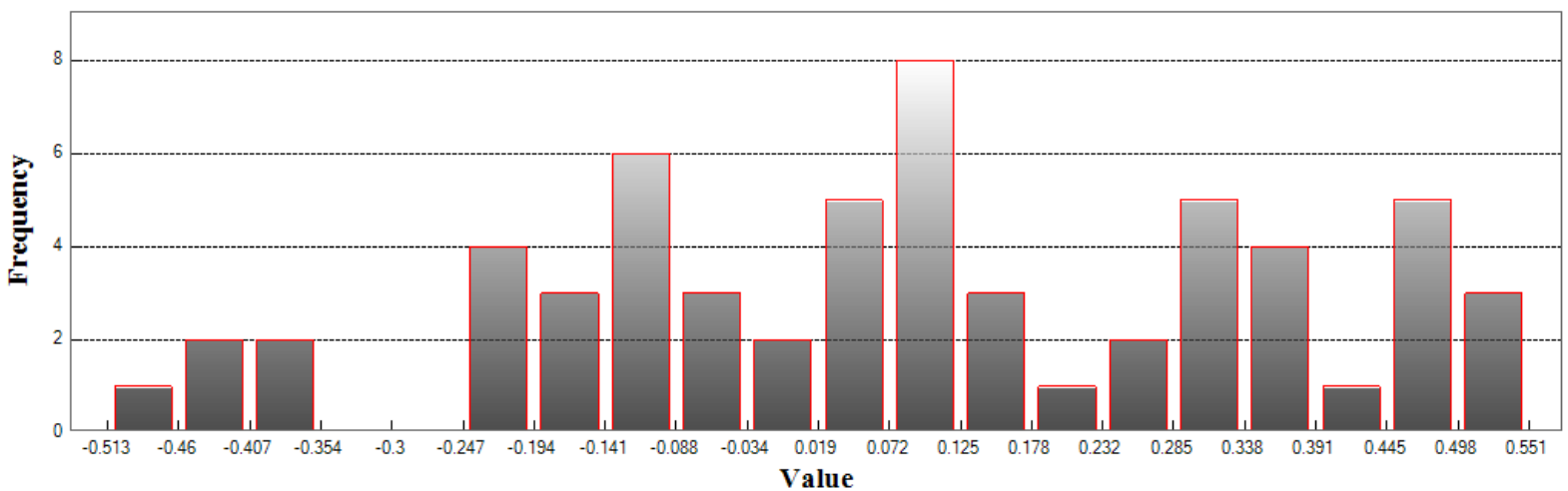


## LAS (Continued)

### Vegetated Vertical Accuracy

LandCover Type: 2H  
Minimum DZ: -0.514  
Maximum DZ: 0.551  
Mean DZ: 0.087  
Mean Magnitude DZ: 0.485  
Number Observations: 60  
Standard Deviation DZ: 0.273  
RMSE Z: 0.284  
95th Percentile: 0.508  
Units: US Survey Feet

## Histogram



Min: -0.514

Max: 0.551

Number Of Bins: 20

Bin Interval: 0.053

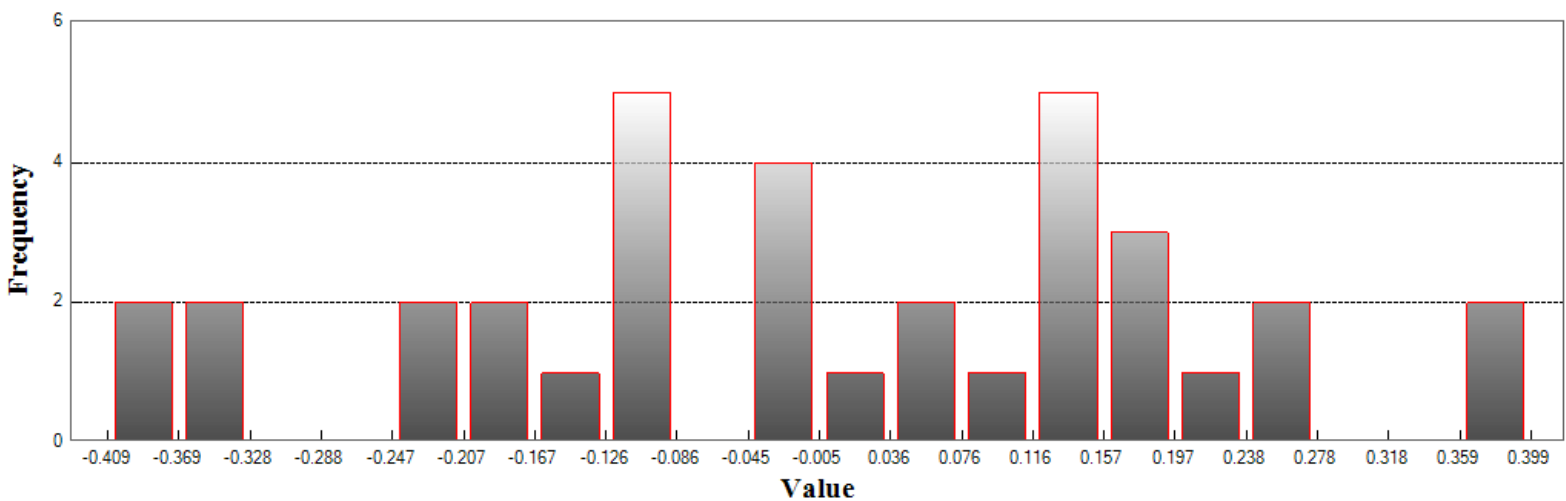


## LAS (Continued)

### Vegetated Vertical Accuracy

LandCover Type: 2L  
Minimum DZ: -0.409  
Maximum DZ: 0.399  
Mean DZ: -0.002  
Mean Magnitude DZ: 0.415  
Number Observations: 35  
Standard Deviation DZ: 0.209  
RMSE Z: 0.206  
95th Percentile: 0.394  
Units: US Survey Feet

## Histogram



Min: -0.409

Max: 0.399

Number Of Bins: 20

Bin Interval: 0.04

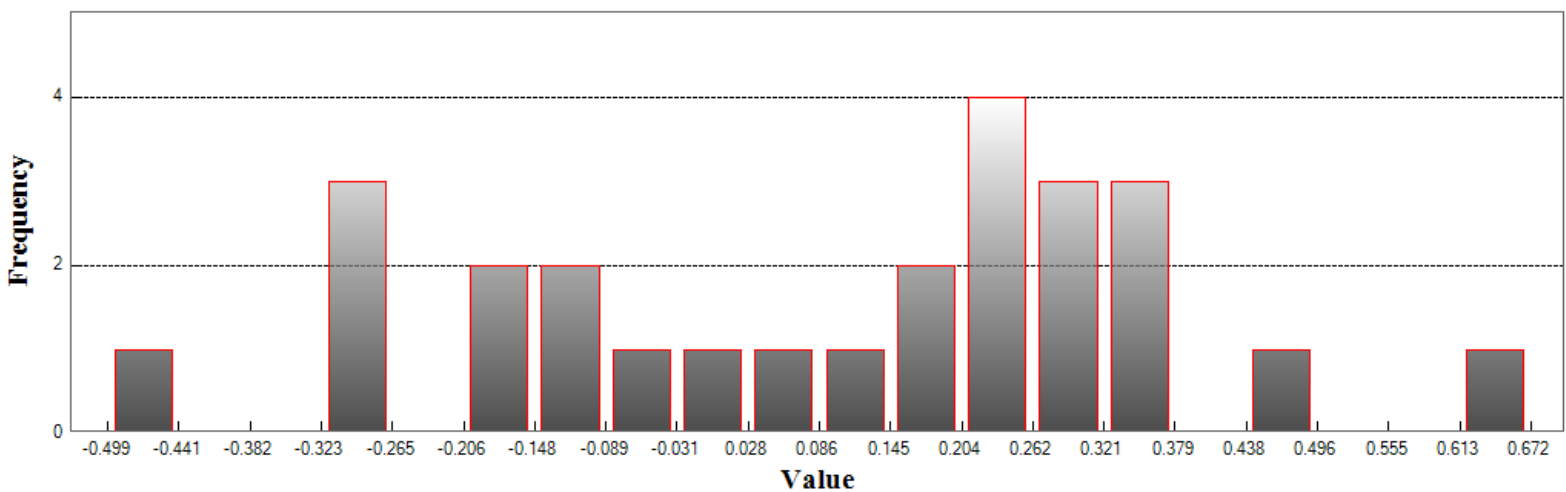


## LAS (Continued)

### Vegetated Vertical Accuracy

LandCover Type: 2M  
Minimum DZ: -0.499  
Maximum DZ: 0.672  
Mean DZ: 0.099  
Mean Magnitude DZ: 0.503  
Number Observations: 26  
Standard Deviation DZ: 0.28  
RMSE Z: 0.292  
95th Percentile: 0.499  
Units: US Survey Feet

## Histogram



Min: -0.499

Max: 0.672

Number Of Bins: 20

Bin Interval: 0.059