

## NORTH CAROLINA GEODETIC SURVEY

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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: iredell\_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: Not Specified

### LAS:

Tile Index Attribute: las\_tile

Data Filename: Masspoints

Number of Data Files Matching Attribute: 2165 out of 2165





LiDAR Accuracy Assessment Summary

LC Type	# of Points	NVA	VVA	
LAS				
2B	30	0.319		
2H	52		0.423	
2L	31		0.368	
2M	23		0.499	
2U	35	0.307		
Total	171			

Units: US Survey Feet

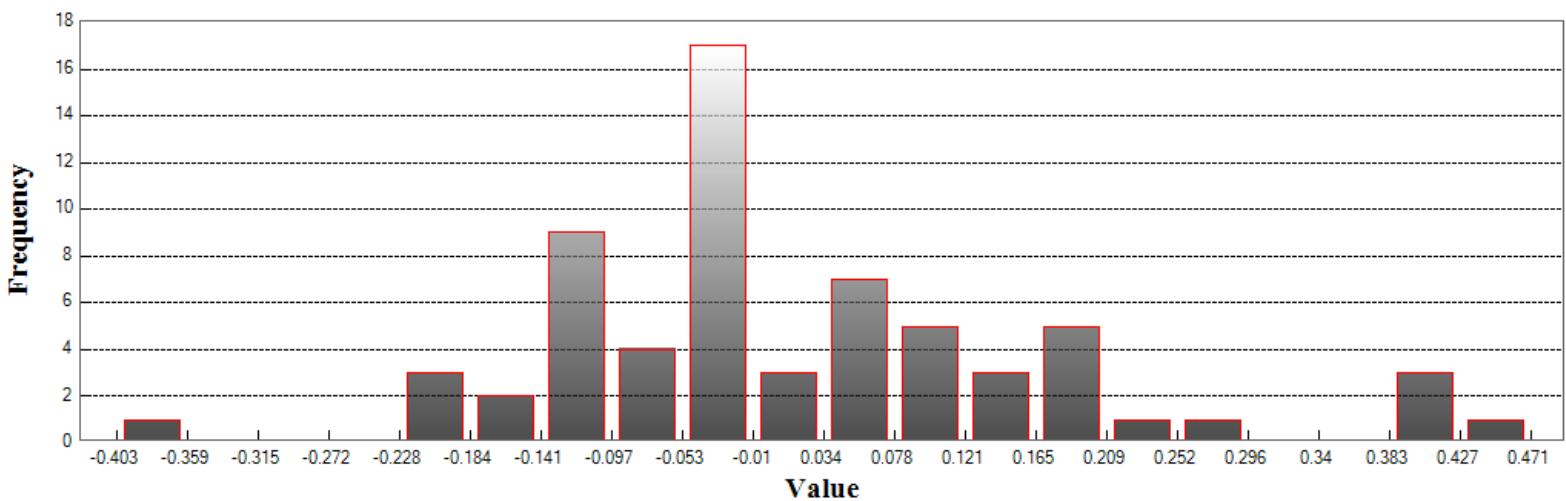


# LAS

## Nonvegetated Vertical Accuracy

LandCover Type: 2B, 2U  
Minimum DZ: -0.403  
Maximum DZ: 0.471  
Mean DZ: 0.018  
Mean Magnitude DZ: 0.344  
Number Observations: 65  
Standard Deviation DZ: 0.16  
RMSE Z: 0.159  
95% Confidence Level Z: 0.312  
Units: US Survey Feet

# Histogram



Min: -0.403  
Max: 0.471  
Number Of Bins: 20  
Bin Interval: 0.044

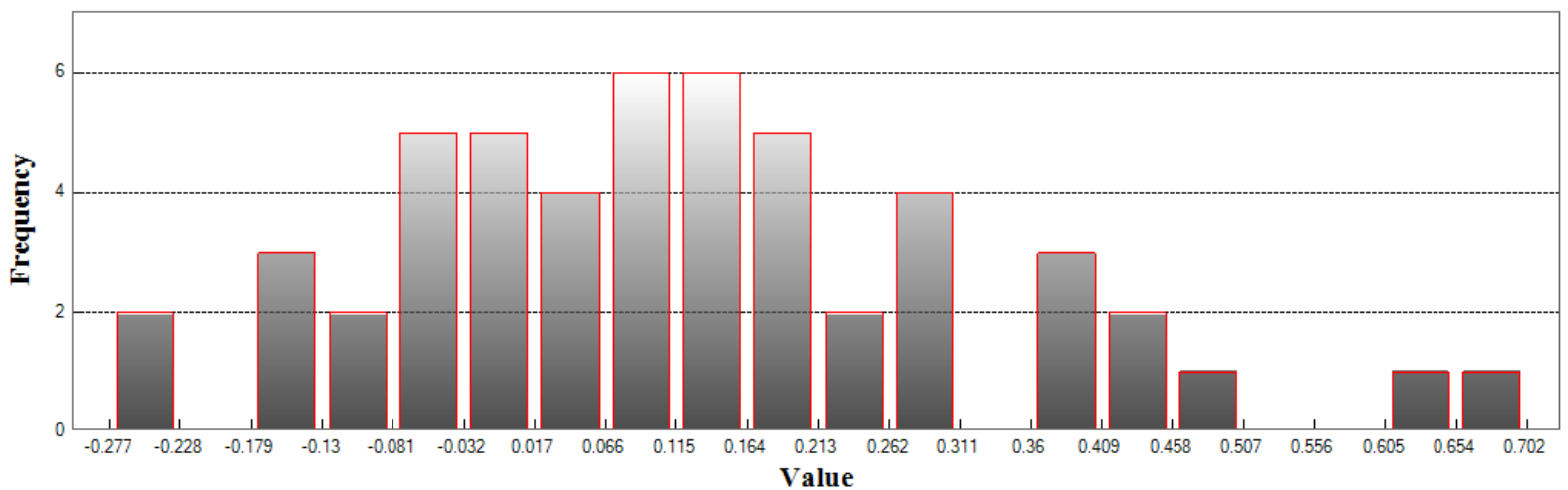


## LAS (Continued)

### Vegetated Vertical Accuracy

LandCover Type: 2H  
Minimum DZ: -0.276  
Maximum DZ: 0.703  
Mean DZ: 0.122  
Mean Magnitude DZ: 0.426  
Number Observations: 52  
Standard Deviation DZ: 0.205  
RMSE Z: 0.237  
95th Percentile: 0.423  
Units: US Survey Feet

## Histogram



Min: -0.276  
Max: 0.703  
Number Of Bins: 20  
Bin Interval: 0.049

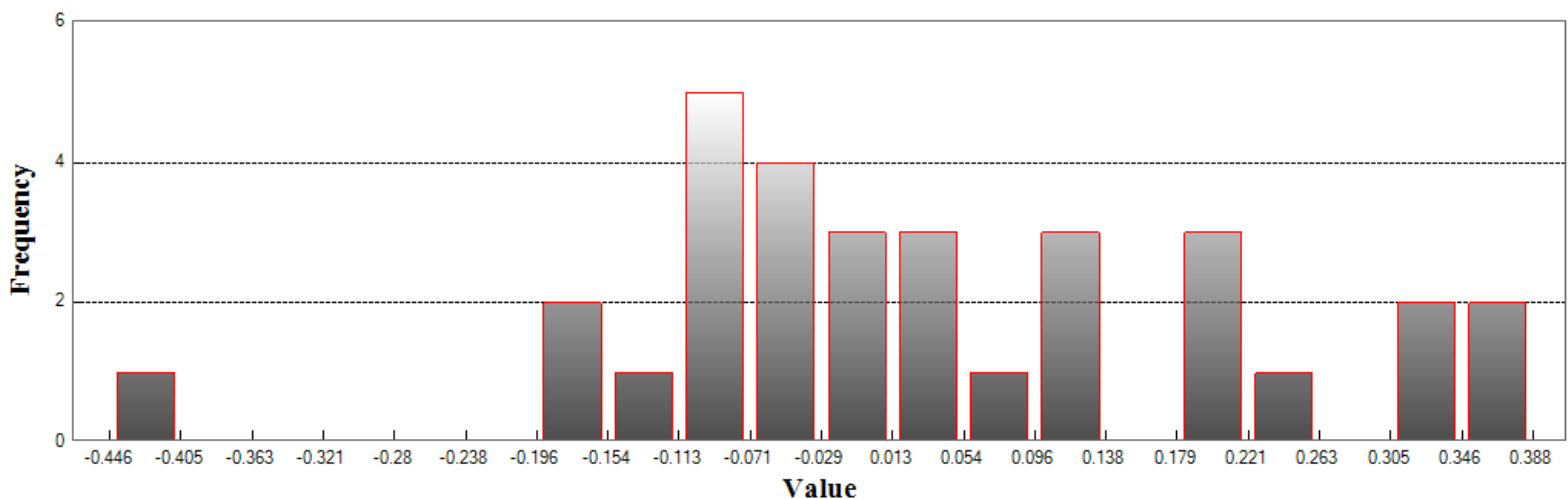


## LAS (Continued)

### Vegetated Vertical Accuracy

LandCover Type: 2L  
Minimum DZ: -0.447  
Maximum DZ: 0.388  
Mean DZ: 0.038  
Mean Magnitude DZ: 0.373  
Number Observations: 31  
Standard Deviation DZ: 0.183  
RMSE Z: 0.184  
95th Percentile: 0.368  
Units: US Survey Feet

## Histogram



Min: -0.447

Max: 0.388

Number Of Bins: 20

Bin Interval: 0.042

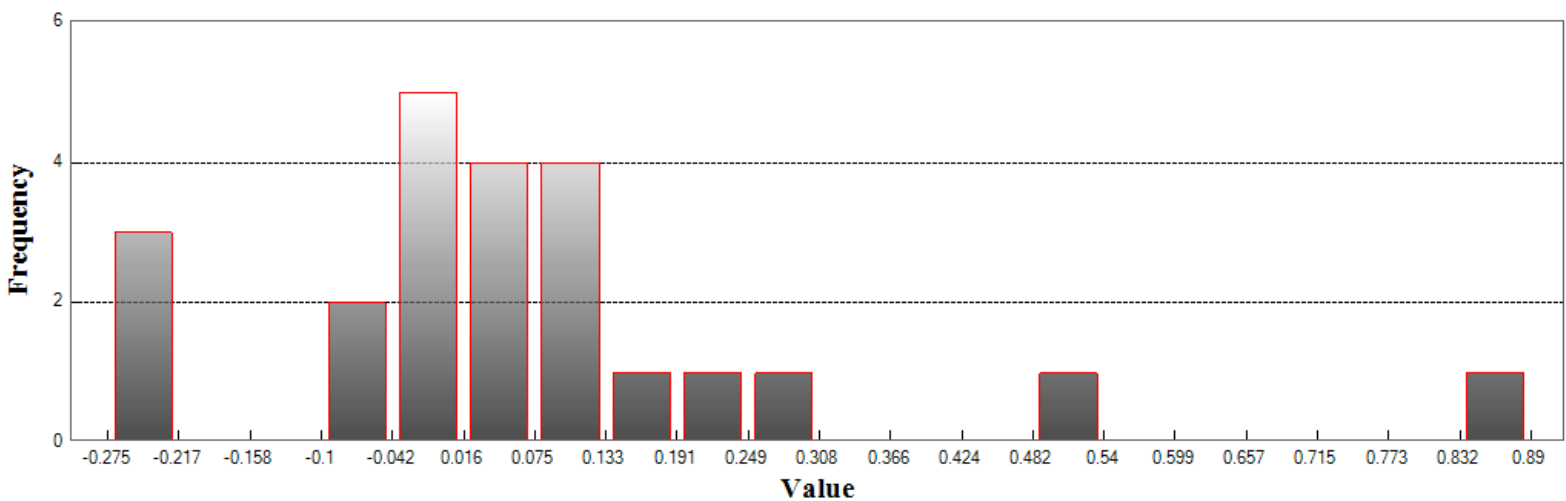


## LAS (Continued)

### Vegetated Vertical Accuracy

LandCover Type: 2M  
Minimum DZ: -0.275  
Maximum DZ: 0.89  
Mean DZ: 0.07  
Mean Magnitude DZ: 0.395  
Number Observations: 23  
Standard Deviation DZ: 0.247  
RMSE Z: 0.251  
95th Percentile: 0.499  
Units: US Survey Feet

## Histogram



Min: -0.275

Max: 0.89

Number Of Bins: 20

Bin Interval: 0.058