

## 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: stokes\_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:

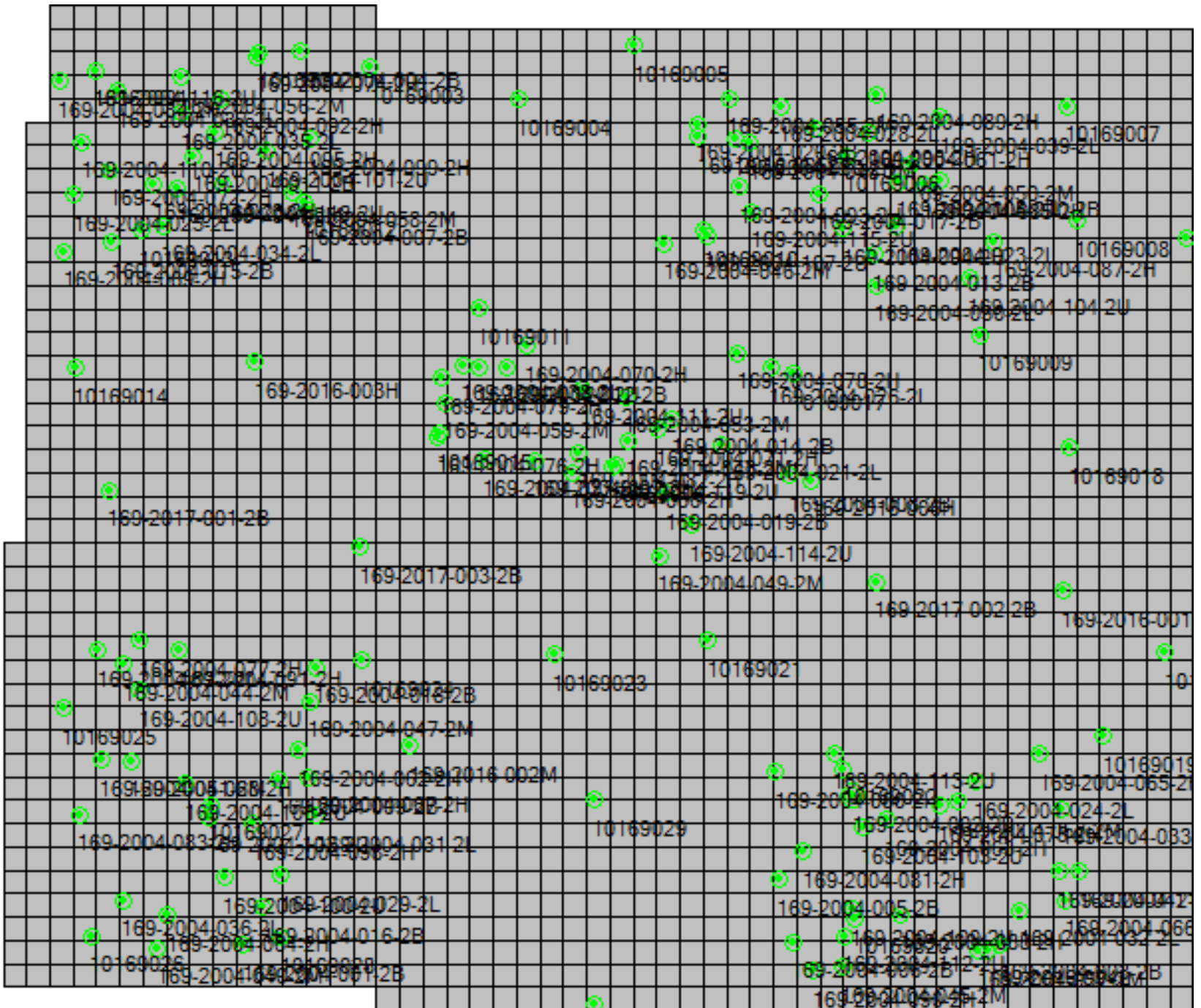
Tile Index Attribute: las\_tile

Data Filename: Masspoints

Number of Data Files Matching Attribute: 2114 out of 2114



# Tiled-Data Area





LiDAR Accuracy Assessment Summary

LC Type	# of Points	NVA	VVA
LAS			
2B	23	0.602	
2H	42		0.657
2L	21		0.661
2M	21		1.860
2U	53	0.462	
Total	160		

Units: US Survey Feet

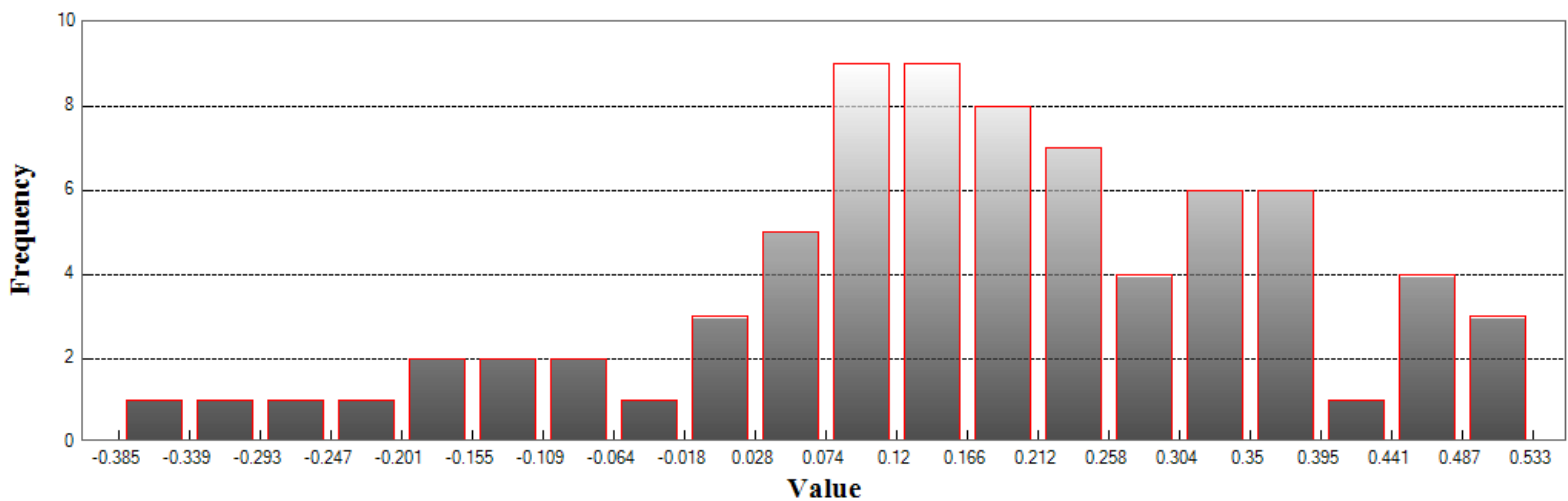


# LAS

## Nonvegetated Vertical Accuracy

LandCover Type: 2B, 2U  
Minimum DZ: -0.385  
Maximum DZ: 0.533  
Mean DZ: 0.168  
Mean Magnitude DZ: 0.47  
Number Observations: 76  
Standard Deviation DZ: 0.199  
RMSE Z: 0.259  
95% Confidence Level Z: 0.508  
Units: US Survey Feet

# Histogram



Min: -0.385  
Max: 0.533  
Number Of Bins: 20  
Bin Interval: 0.046

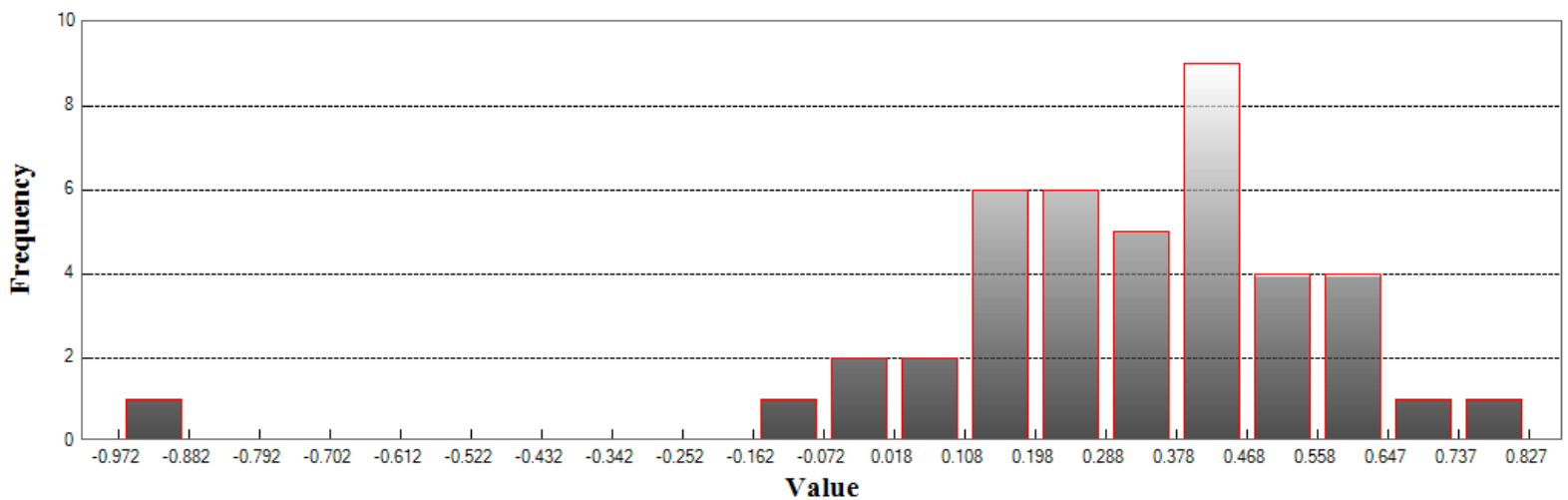


## LAS (Continued)

### Vegetated Vertical Accuracy

LandCover Type: 2H  
Minimum DZ: -0.972  
Maximum DZ: 0.827  
Mean DZ: 0.302  
Mean Magnitude DZ: 0.598  
Number Observations: 42  
Standard Deviation DZ: 0.287  
RMSE Z: 0.414  
95th Percentile: 0.657  
Units: US Survey Feet

## Histogram



Min: -0.972  
Max: 0.827  
Number Of Bins: 20  
Bin Interval: 0.09

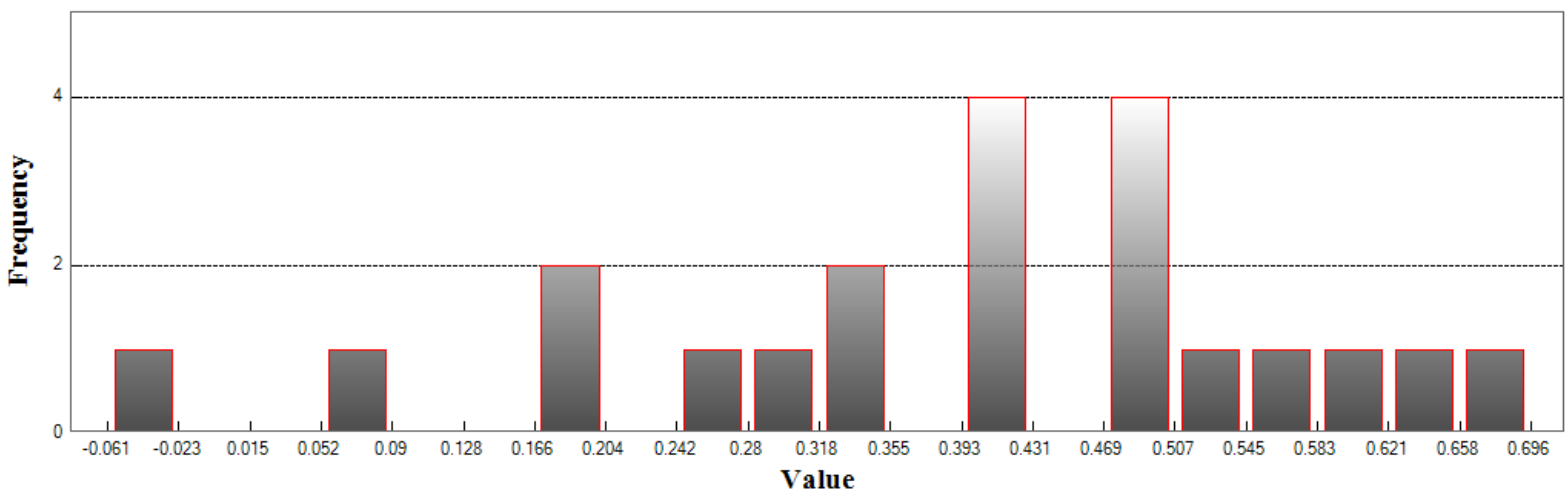


## LAS (Continued)

### Vegetated Vertical Accuracy

LandCover Type: 2L  
Minimum DZ: -0.061  
Maximum DZ: 0.696  
Mean DZ: 0.387  
Mean Magnitude DZ: 0.627  
Number Observations: 21  
Standard Deviation DZ: 0.186  
RMSE Z: 0.427  
95th Percentile: 0.661  
Units: US Survey Feet

## Histogram



Min: -0.061

Max: 0.696

Number Of Bins: 20

Bin Interval: 0.038

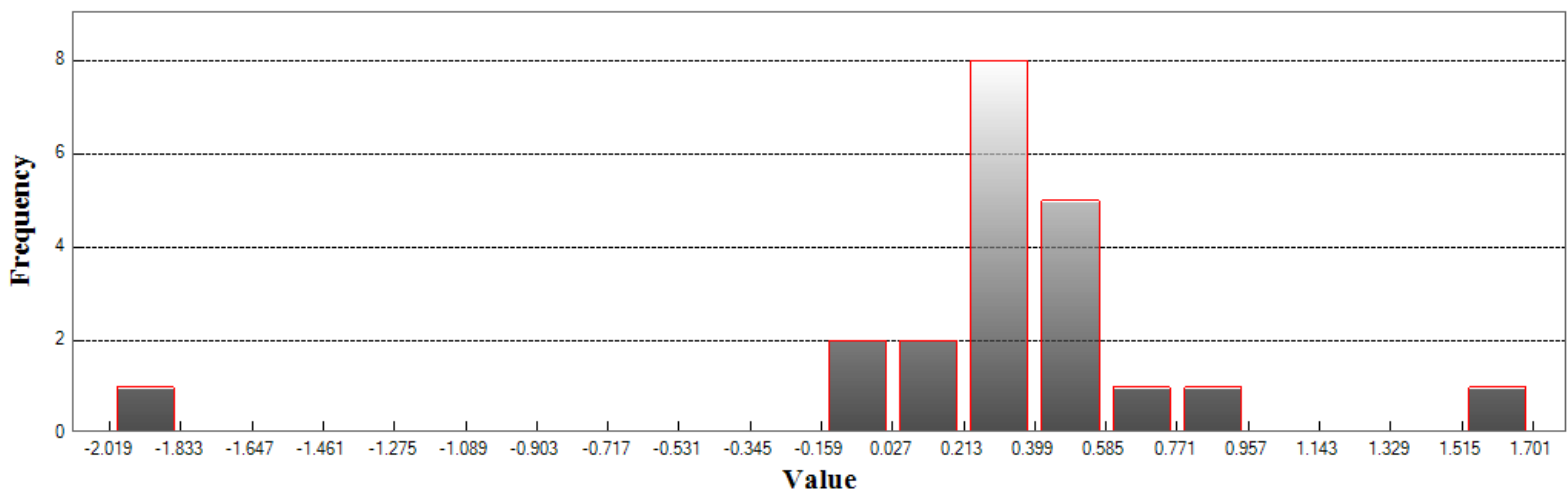


## LAS (Continued)

### Vegetated Vertical Accuracy

LandCover Type: 2M  
Minimum DZ: -2.019  
Maximum DZ: 1.701  
Mean DZ: 0.295  
Mean Magnitude DZ: 0.704  
Number Observations: 21  
Standard Deviation DZ: 0.643  
RMSE Z: 0.693  
95th Percentile: 1.86  
Units: US Survey Feet

## Histogram



Min: -2.019

Max: 1.701

Number Of Bins: 20

Bin Interval: 0.186