

## 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: surry\_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:

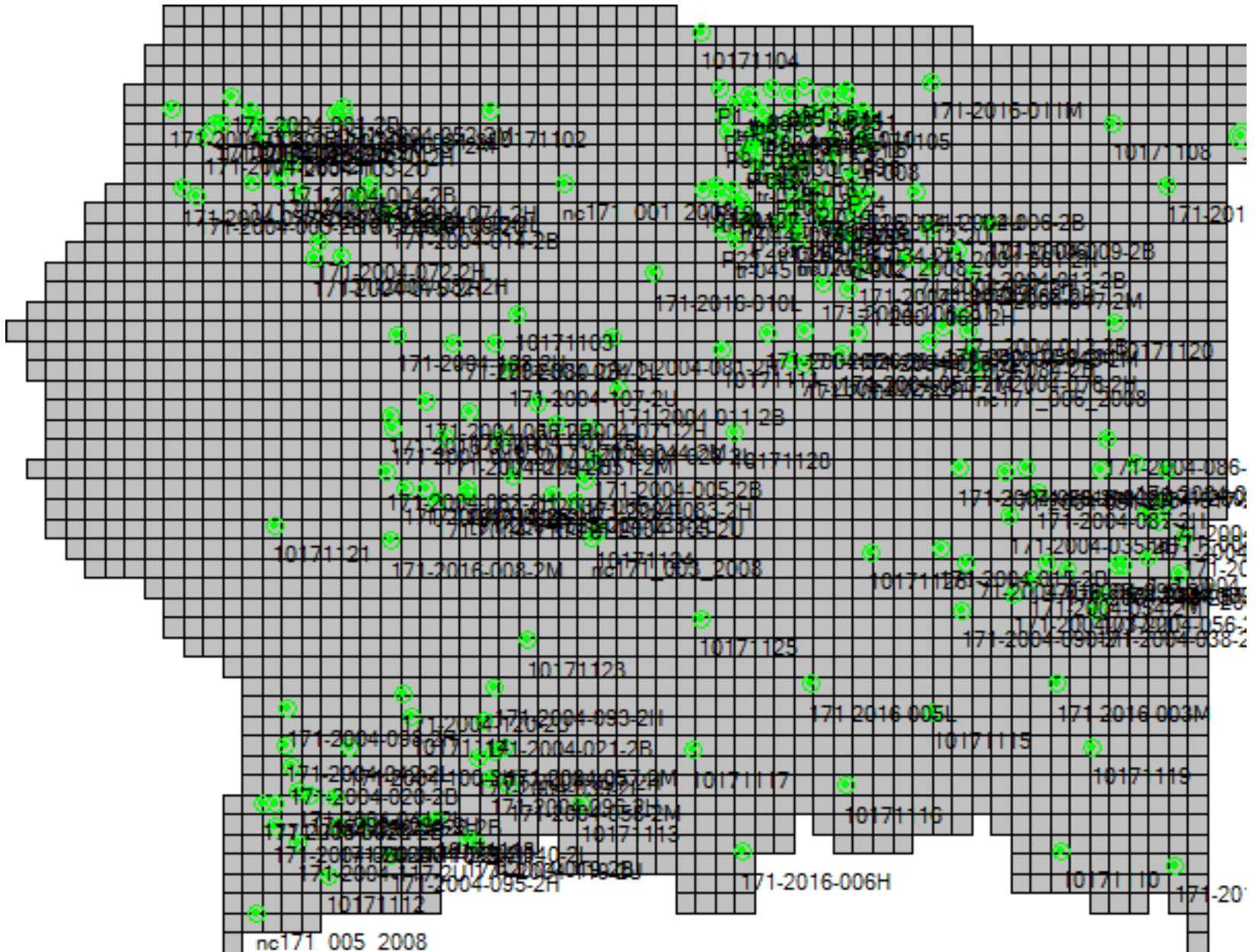
Tile Index Attribute: las\_tile

Data Filename: QL1

Number of Data Files Matching Attribute: 2165 out of 2165



## Tiled-Data Area





LiDAR Accuracy Assessment Summary

LC Type	# of Points	NVA	VVA
LAS			
2B	23	0.659	
2H	44		0.770
2L	23		0.725
2M	23		0.939
2U	114	0.472	
Total	227		

Units: US Survey Feet

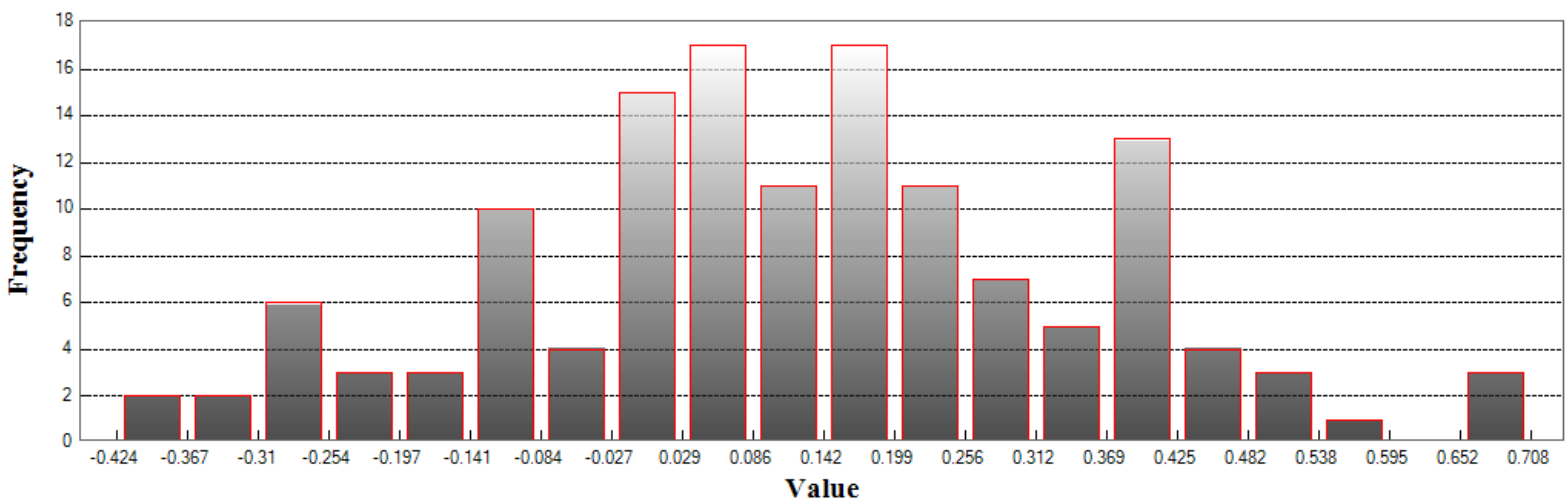


# LAS

## Nonvegetated Vertical Accuracy

LandCover Type: 2B, 2U  
Minimum DZ: -0.423  
Maximum DZ: 0.709  
Mean DZ: 0.121  
Mean Magnitude DZ: 0.455  
Number Observations: 137  
Standard Deviation DZ: 0.23  
RMSE Z: 0.259  
95% Confidence Level Z: 0.508  
Units: US Survey Feet

# Histogram



Min: -0.423  
Max: 0.709  
Number Of Bins: 20  
Bin Interval: 0.057

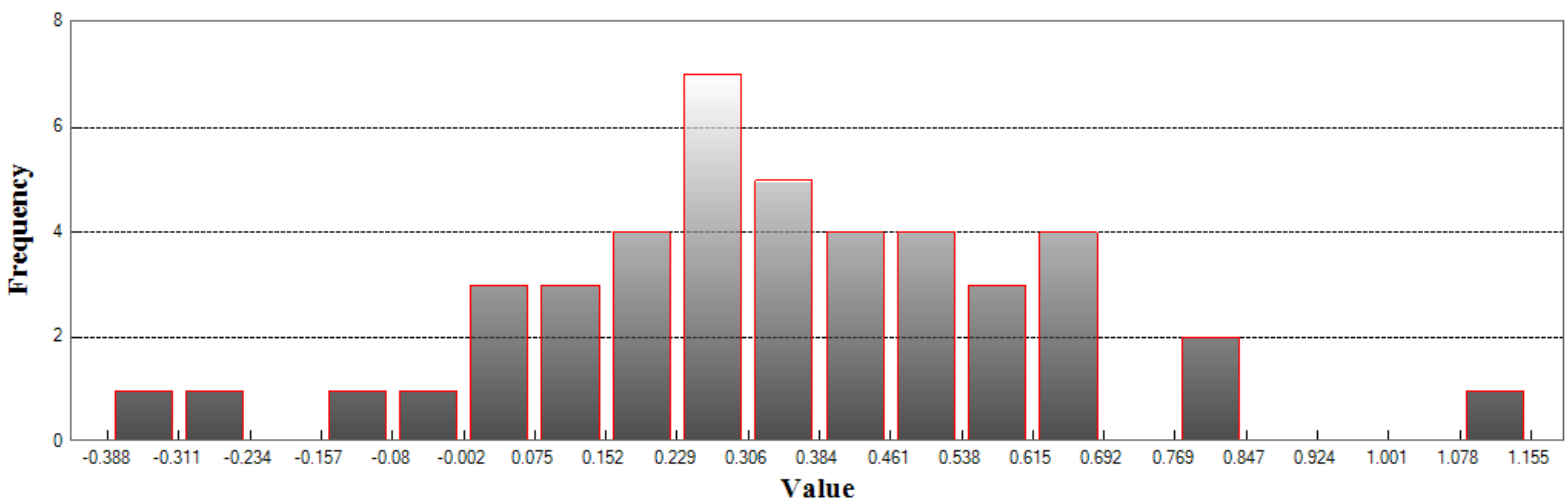


## LAS (Continued)

### Vegetated Vertical Accuracy

LandCover Type: 2H  
Minimum DZ: -0.389  
Maximum DZ: 1.155  
Mean DZ: 0.343  
Mean Magnitude DZ: 0.615  
Number Observations: 44  
Standard Deviation DZ: 0.284  
RMSE Z: 0.443  
95th Percentile: 0.77  
Units: US Survey Feet

## Histogram



Min: -0.389

Max: 1.155

Number Of Bins: 20

Bin Interval: 0.077

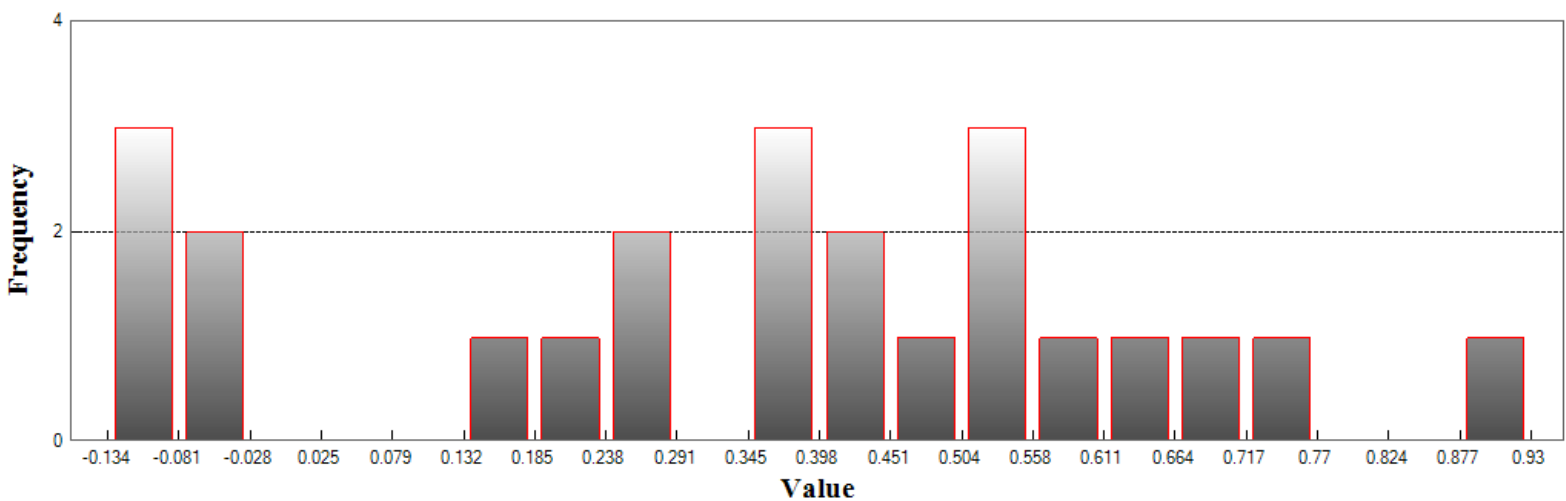


## LAS (Continued)

### Vegetated Vertical Accuracy

LandCover Type: 2L  
Minimum DZ: -0.135  
Maximum DZ: 0.93  
Mean DZ: 0.344  
Mean Magnitude DZ: 0.624  
Number Observations: 23  
Standard Deviation DZ: 0.299  
RMSE Z: 0.451  
95th Percentile: 0.725  
Units: US Survey Feet

## Histogram



Min: -0.135

Max: 0.93

Number Of Bins: 20

Bin Interval: 0.053

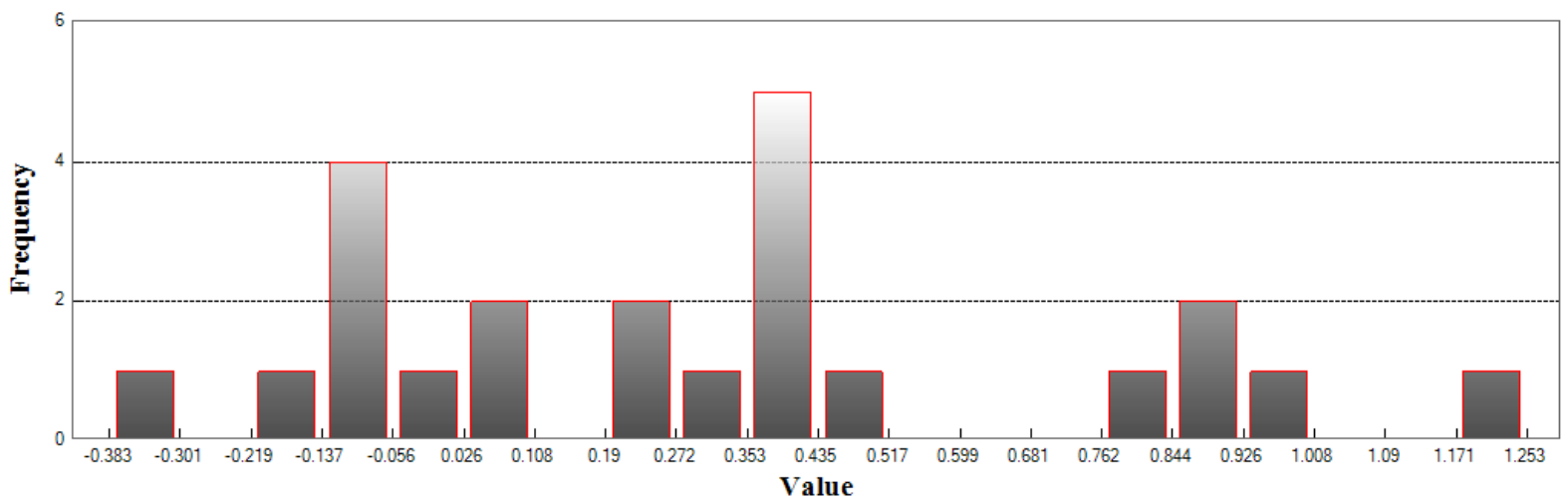


## LAS (Continued)

### Vegetated Vertical Accuracy

LandCover Type: 2M  
Minimum DZ: -0.383  
Maximum DZ: 1.253  
Mean DZ: 0.316  
Mean Magnitude DZ: 0.631  
Number Observations: 23  
Standard Deviation DZ: 0.418  
RMSE Z: 0.516  
95th Percentile: 0.939  
Units: US Survey Feet

## Histogram



Min: -0.383

Max: 1.253

Number Of Bins: 20

Bin Interval: 0.082