

Project Site Definition

Project Number	(61961 Kucera)
Project Name	Ft Stewart
Min/Max Ground Elevation	50-150'
Flight Altitude AGL	4600'
Geographic Location	Ft Stewart, GA
Distance Units	Meters
Coordinate System	UTM 17N
Horizontal Datum	NAD83 - 2011
Vertical Datum	NAVD88 – Geoid18

Optech Galaxy G2 (5050501, 5050487)

Scan FOV	30
Flying Altitude AMSL	4700'
Laser Pulse Rate (kHz)	800 (per sensor)
Scan Rate (Hz)	121
Laser Power %	HIGH/STD

Raw Laser Statistics

Swath Width	2445'
Planned Sidelap	30%
Average Point Density	17 points/sq meter

Flight Mission Data

Aircraft	PA-31 Piper Navajo Chieftain
Date Flown	05/23/25
Number of Flight Lines	27
Total Flight Line Miles	156
Flight Speed	~150knots
Base Station Type	Trimble RTX
GPS/INS Notes	POSpac v9.4

Data Processing

New Boresight Calibration?	yes
Boresight Calibration Date	05/30/25
Minimum/Maximum Scan Angle Output	+/- 15 degrees
Actual Scan Angle Output	full FOV
Tile Layout Used	arbitrary, 750m square tiles
Class 1	Unclassified
Class 2	Ground
Class 5	Vegetation
Class 6	Building
Class 7	Low Points
Class 18	High points
Data Formats Created	LAS v1.4
Data Formats Delivered to Client	Classified LAS by Tile
Processing Notes	minimal editing of buildings/veg/ground

Accuracy Results (m)

Number of Control Points Used in Analysis	8
Number of Control Points Eliminated from Original Set	0
Reasons for Point Removal	N/A
Average Elevation Variation	0.003
Minimum Elevation Dz	-0.110
Maximum Elevation Dz	0.113
RMS	0.068
Horizontal Accuracy	<1m