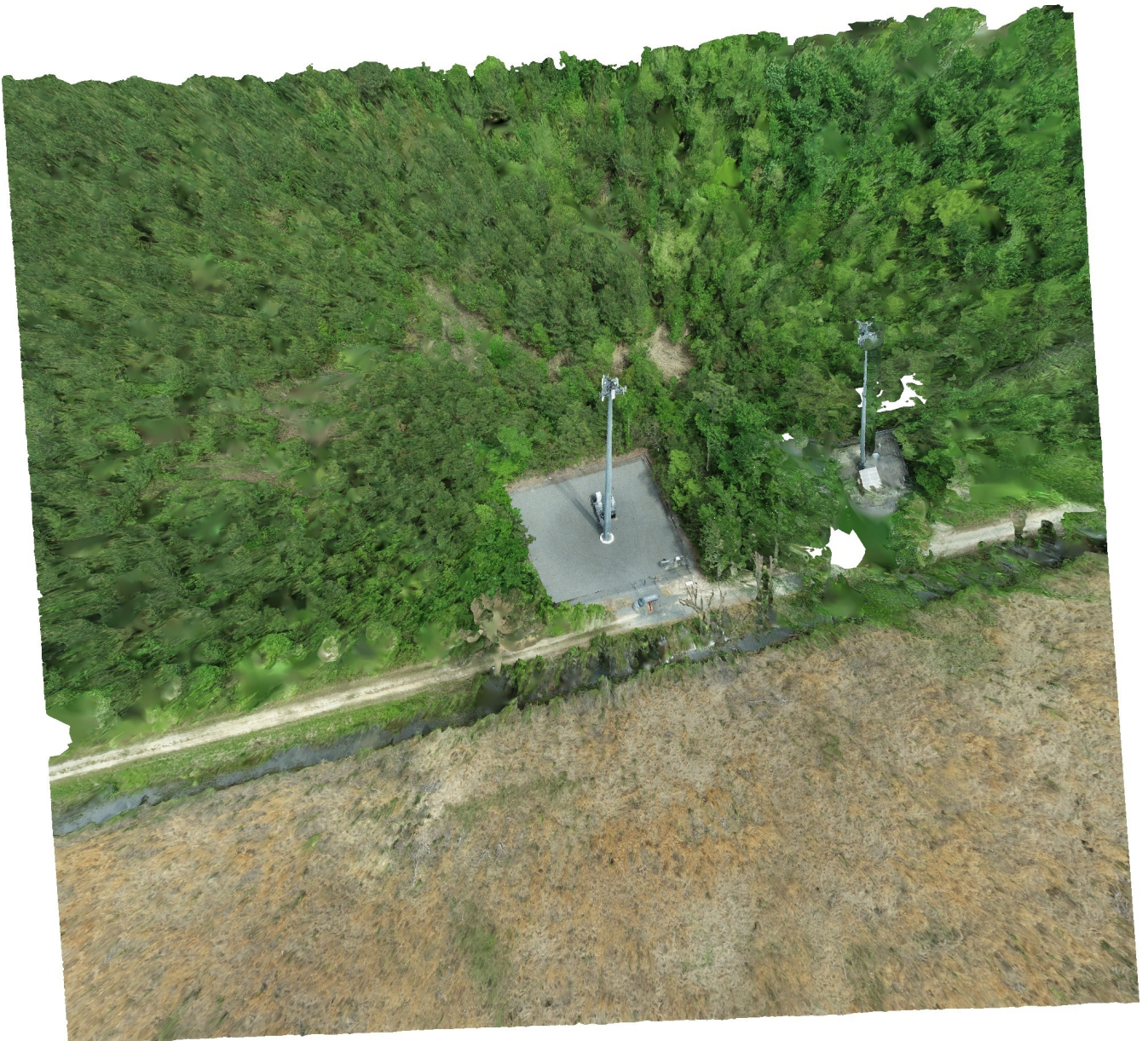


3D Model Report

Processing Report

25 June 2023



Survey Data

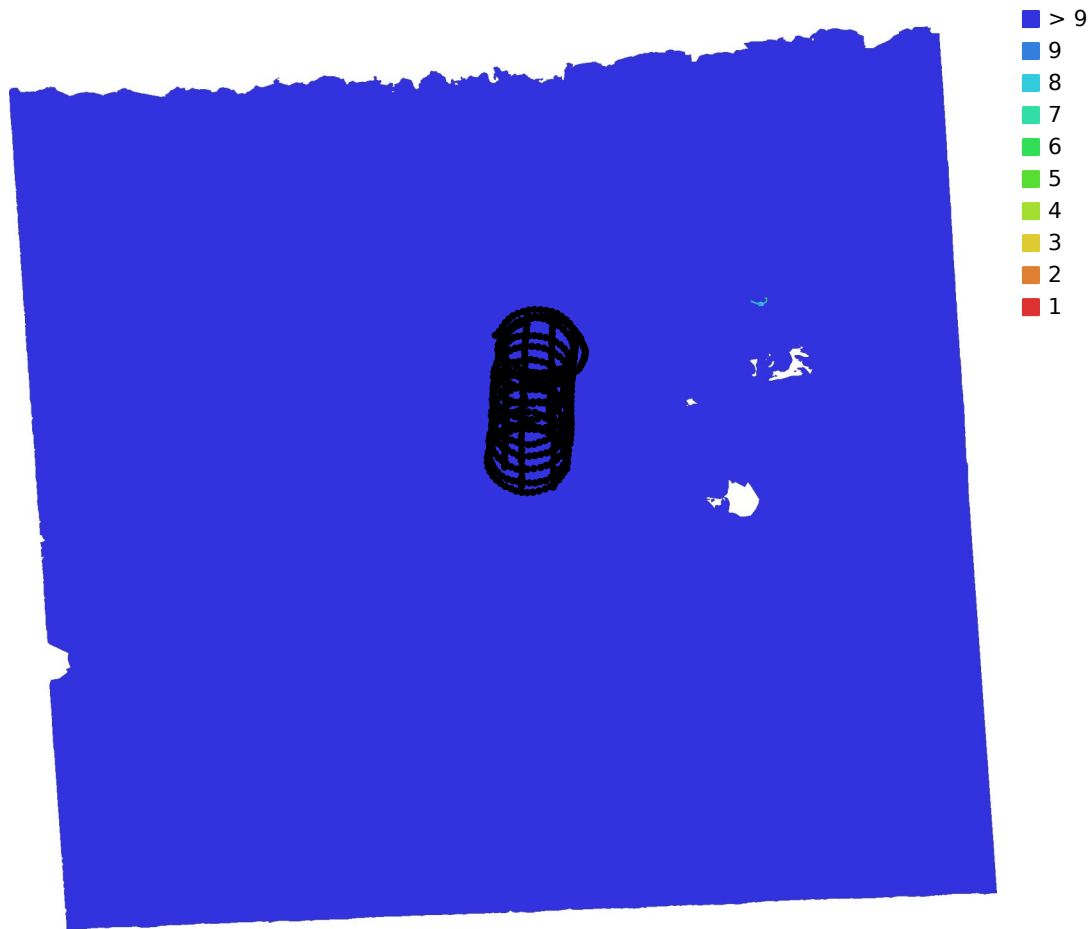


Fig. 1. Camera locations and image overlap.

Number of images: 778

Camera stations: 728

Tie points: 93,036

Projections: 944,329

Reprojection error: 0.475 pix

Camera Model	Resolution	Focal Length	Pixel Size	Precalibrated
FC6310S (8.8mm)	5472 x 3648	88.8 mm	2.41 x 2.41 μm	No

Table 1. Cameras.

Camera Calibration

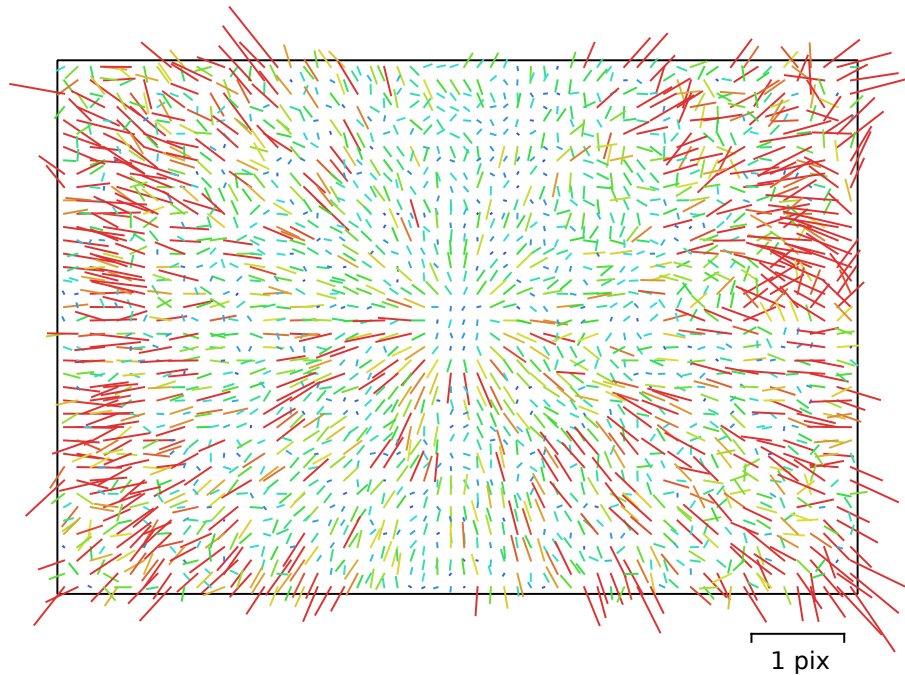


Fig. 2. Image residuals for FC6310S (8.8mm).

FC6310S (8.8mm)

728 images

Type	Resolution	Focal Length	Pixel Size
Frame	5472 x 3648	8.8 mm	2.41 x 2.41 μm

	Value	Error	F	Cx	Cy	K1	K2	K3	P1	P2
F	3704.42	0.013	1.00	0.01	-0.80	-0.22	0.27	-0.24	0.00	-0.72
Cx	-27.6198	0.014		1.00	-0.03	-0.00	-0.00	0.01	0.96	-0.02
Cy	-0.328329	0.028			1.00	-0.14	0.05	-0.05	-0.03	0.95
K1	-0.0118555	1.3e-05				1.00	-0.96	0.91	0.00	-0.18
K2	-9.41793e-05	3.9e-05					1.00	-0.98	-0.01	0.09
K3	0.00865844	3.6e-05						1.00	0.01	-0.08
P1	-0.00181886	1.3e-06							1.00	-0.02
P2	-0.00100513	1.9e-06								1.00

Table 2. Calibration coefficients and correlation matrix.

Digital Elevation Model

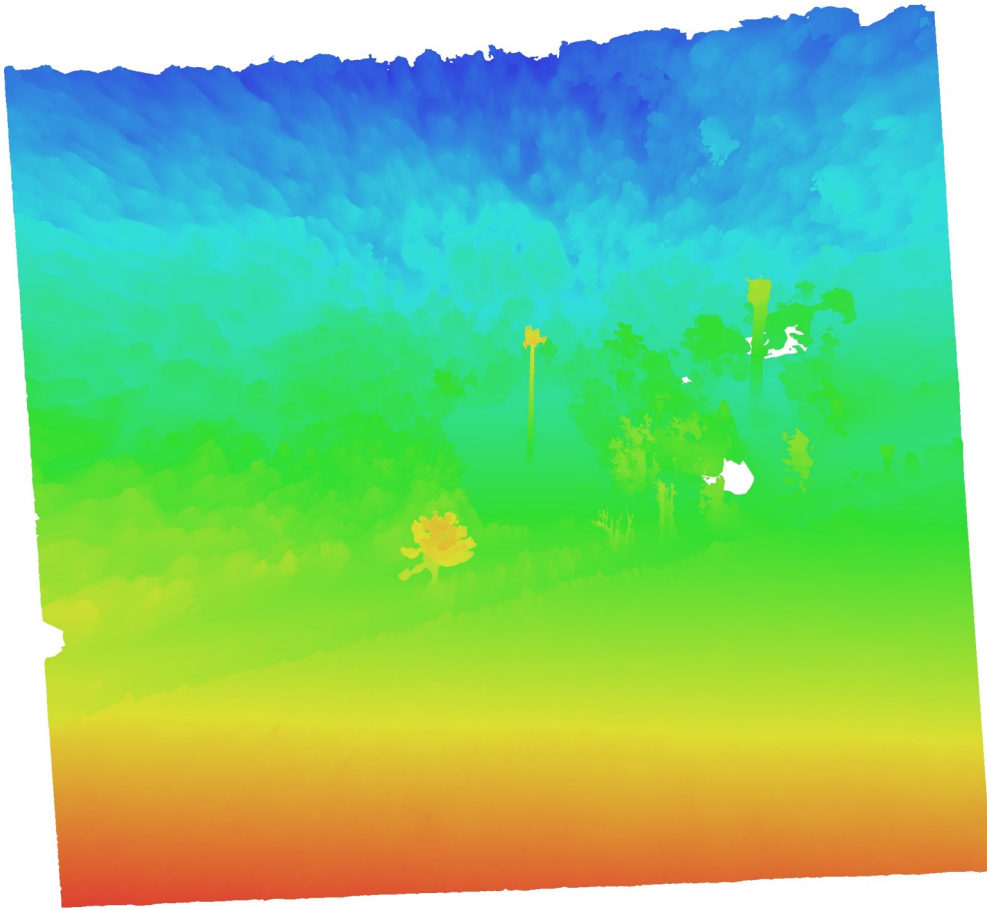


Fig. 3. Reconstructed digital elevation model.

Processing Parameters

General	
Cameras	728
Aligned cameras	728
Point Cloud	
Points	93,036 of 501,748
RMS reprojection error	0.274286 (0.474646 pix)
Max reprojection error	0.910035 (32.4394 pix)
Mean key point size	1.64121 pix
Point colors	3 bands, uint8
Key points	No
Average tie point multiplicity	6.46619
Alignment parameters	
Accuracy	Highest
Generic preselection	Yes
Reference preselection	No
Key point limit	40,000
Key point limit per Mpx	1,000
Tie point limit	4,000
Exclude stationary tie points	Yes
Guided image matching	No
Adaptive camera model fitting	No
Matching time	1 hours 20 minutes
Matching memory usage	5.28 GB
Alignment time	4 minutes 49 seconds
Alignment memory usage	949.69 MB
Date created	2023:06:01 07:19:01
Software version	1.8.4.14671
File size	53.17 MB
Depth Maps	
Count	723
Depth maps generation parameters	
Quality	High
Filtering mode	Mild
Max neighbors	16
Processing time	1 days 9 hours
File size	3.59 GB
Model	
Faces	13,596,099
Vertices	6,809,318
Vertex colors	3 bands, uint8
Texture	8,192 x 8,192, 4 bands, uint8
Depth maps generation parameters	
Quality	High
Filtering mode	Mild
Max neighbors	16
Processing time	1 days 9 hours
Reconstruction parameters	
Surface type	Arbitrary
Source data	Depth maps
Interpolation	Enabled