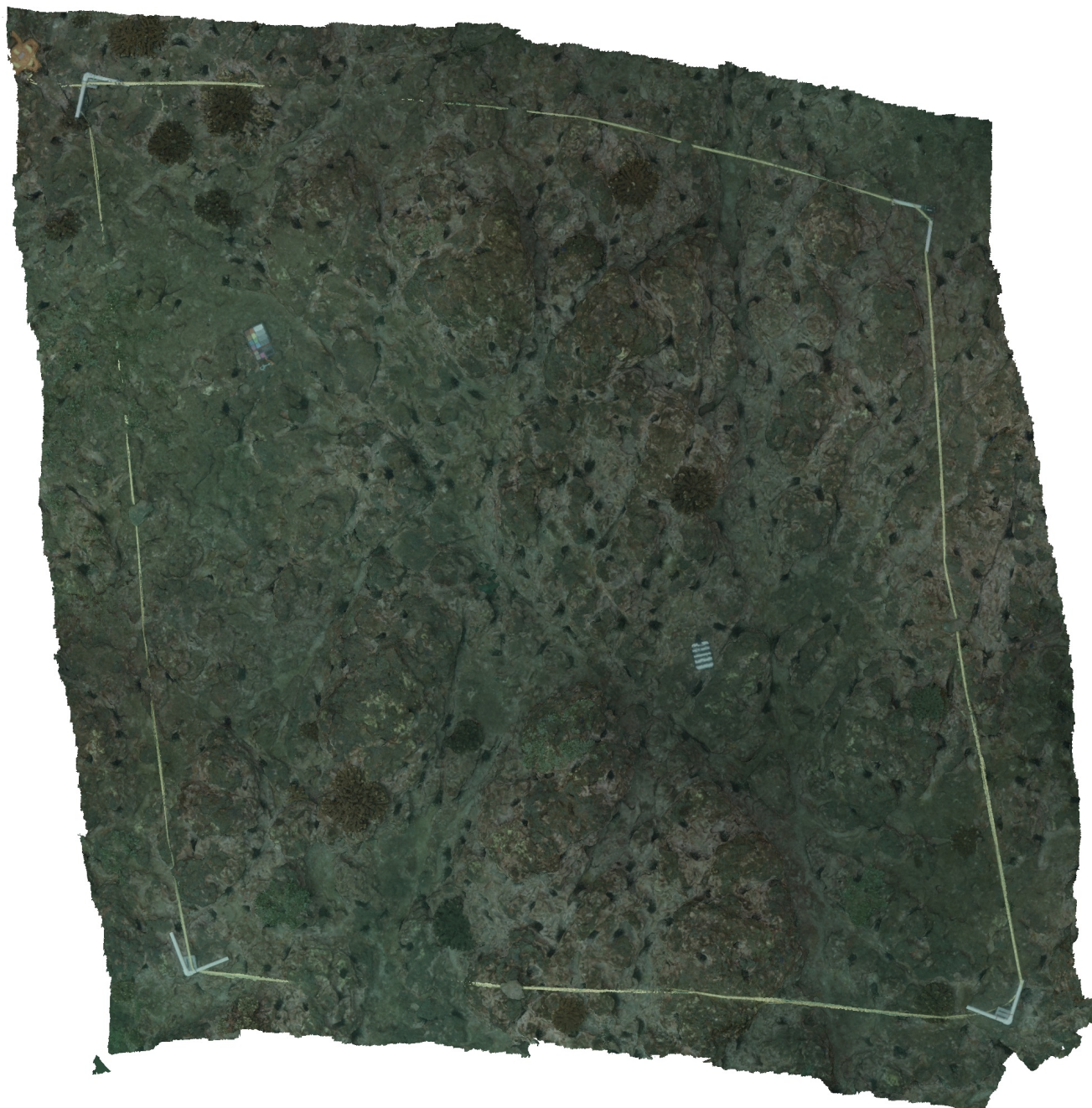


Agisoft Metashape

Processing Report

29 April 2025



Survey Data

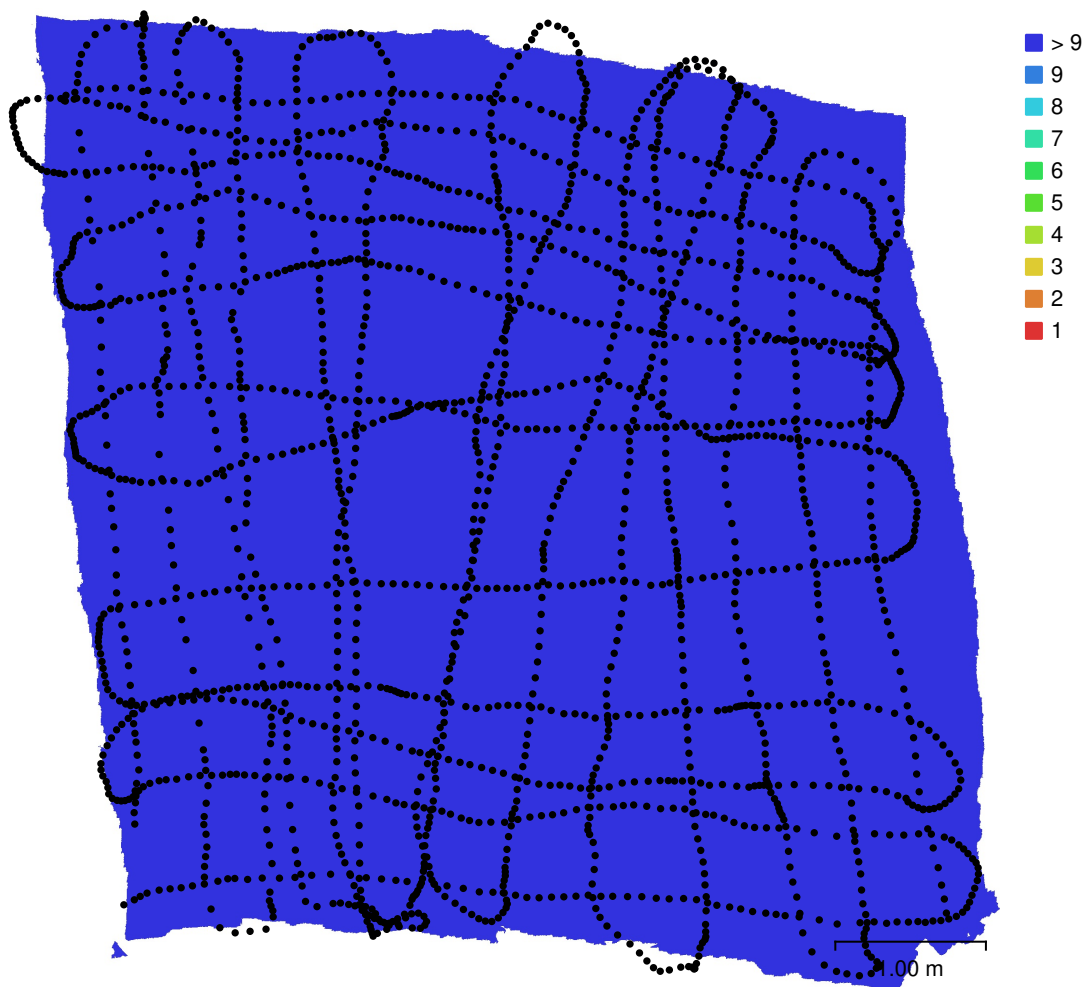


Fig. 1. Camera locations and image overlap.

Number of images:	2,189	Camera stations:	2,189
Flying altitude:	72.2 cm	Tie points:	716,544
Ground resolution:	0.230 mm/pix	Projections:	5,958,646
Coverage area:	34.3 m ²	Reprojection error:	4.11 pix

Camera Model	Resolution	Focal Length	Pixel Size	Precalibrated
unknown	5312 x 4648	unknown	unknown	No

Table 1. Cameras.

Camera Calibration

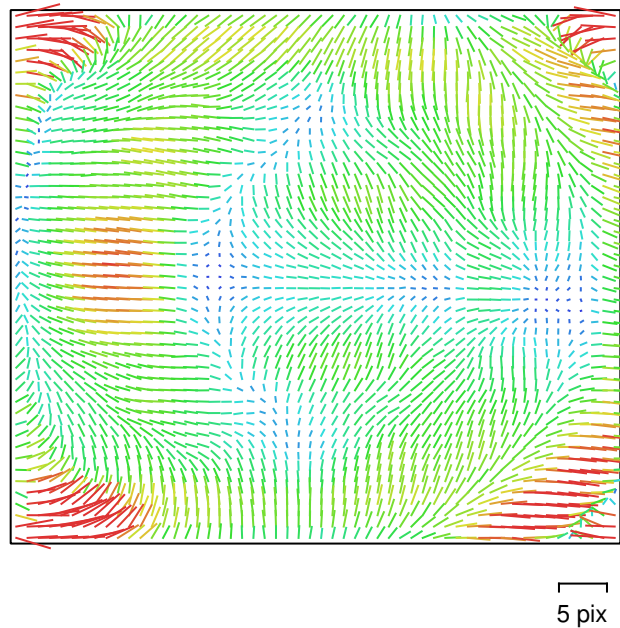


Fig. 2. Image residuals for unknown.

unknown

2189 images

Type	Resolution	Focal Length	Pixel Size
Frame	5312 x 4648	unknown	unknown

	Value	Error	F	Cx	Cy	K1	K2	K3	P1	P2
F	3135.18	0.094	1.00	-0.26	0.49	-0.12	0.31	-0.12	-0.16	0.11
Cx	-28.8054	0.022		1.00	-0.13	0.04	-0.09	0.08	0.71	-0.03
Cy	-2.328	0.023			1.00	-0.00	0.10	-0.02	-0.06	0.64
K1	-0.104265	3.3e-05				1.00	-0.91	0.88	-0.05	0.09
K2	0.105961	6.9e-05					1.00	-0.96	-0.06	0.03
K3	-0.00771565	4.3e-05						1.00	0.04	0.00
P1	-0.00515327	2.4e-06							1.00	-0.09
P2	-0.00096305	2.5e-06								1.00

Table 2. Calibration coefficients and correlation matrix.

Scale Bars

Label	Distance (m)	Error (m)
point 1_point 2	5.22455	0.22455
point 2_point 3	4.89235	-0.107652
point 3_point 4	4.78453	-0.215466
point 1_point 4	5.07585	0.0758484
point 5_point 6	0.199907	-9.25973e-05
point 7_point 8	0.12634	-0.00366022
Total		0.137964

Table 3. Control scale bars.

Digital Elevation Model

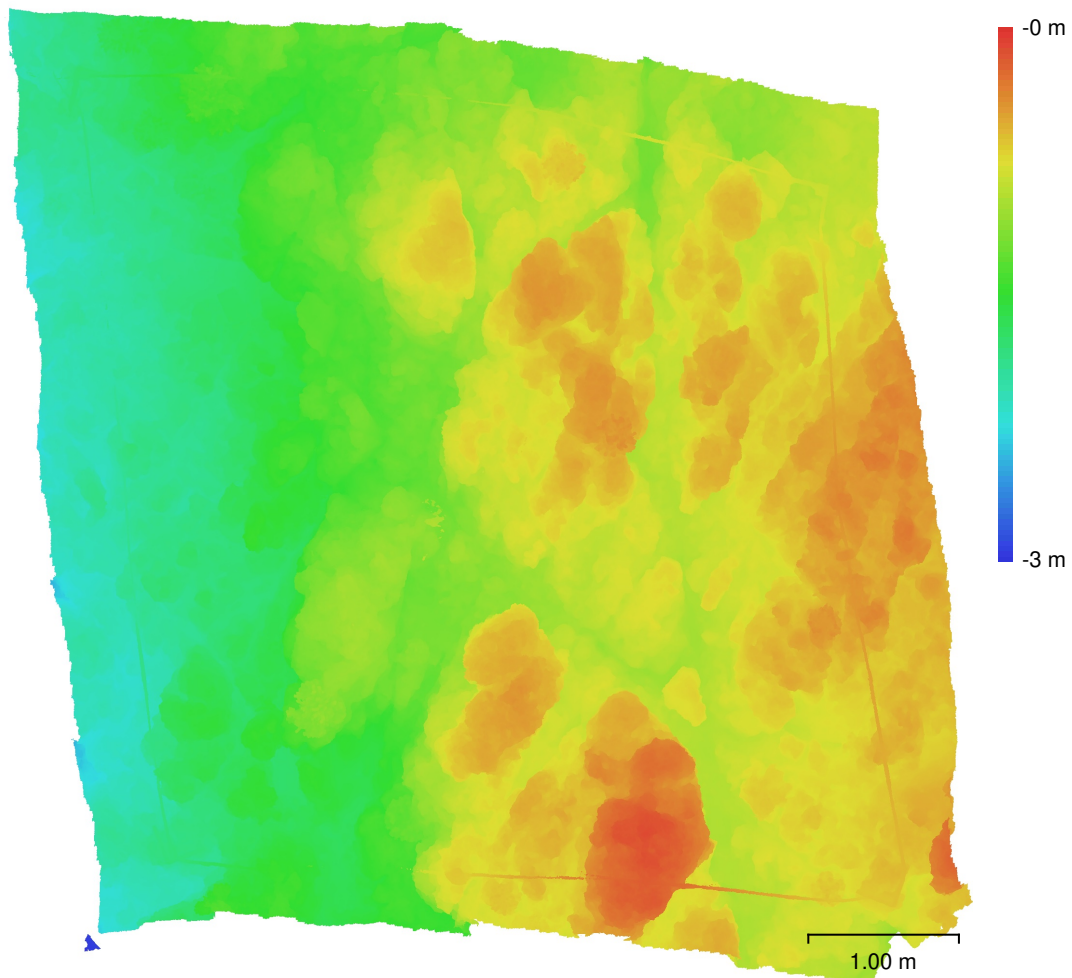


Fig. 3. Reconstructed digital elevation model.

Resolution: unknown
Point density: unknown

Processing Parameters

General

Images	2189
Aligned images	2189
Markers	8
Scale bars	6
Coordinate system	Local Coordinates (m)
Rotation angles	Yaw, Pitch, Roll

Tie Points

Points	716,544 of 1,007,231
RMS reprojection error	0.483321 (4.11372 pix)
Max reprojection error	1.47233 (107.646 pix)
Mean key point size	8.45693 pix
Point colors	3 bands, uint8
Key points	No
Average tie point multiplicity	10.0065

Alignment parameters

Accuracy	Medium
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	40 minutes 2 seconds
Matching memory usage	3.18 GB
Alignment time	57 minutes 31 seconds
Alignment memory usage	1.64 GB
Date created	2025:04:09 10:02:20
Software version	2.2.0.19890
File size	173.36 MB

Depth Maps

Count	2189
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Depth maps generation parameters

Quality	Medium
Filtering mode	Mild
Max neighbors	16
Processing time	45 minutes 41 seconds
Memory usage	2.14 GB
Date created	2025:04:09 11:48:41
Software version	2.2.0.19890
File size	5.70 GB

Point Cloud

Points	107,250,477
Coordinate precision	0.241 mm

Point attributes

Color	3 bands, uint8
Normal	
Confidence	1 - 102

Point classes	
Created (never classified)	107,250,477
Depth maps generation parameters	
Quality	Medium
Filtering mode	Mild
Max neighbors	16
Processing time	45 minutes 41 seconds
Memory usage	2.14 GB
Point cloud generation parameters	
Source data	Depth maps
Processing time	8 hours 22 minutes
Memory usage	17.85 GB
Date created	2025:04:09 20:12:11
Software version	2.2.0.19890
File size	1.79 GB
Model	
Faces	18,051,392
Vertices	9,092,349
Vertex colors	3 bands, uint8
Depth maps generation parameters	
Quality	Medium
Filtering mode	Mild
Max neighbors	16
Processing time	45 minutes 41 seconds
Memory usage	2.14 GB
Point cloud generation parameters	
Source data	Depth maps
Processing time	8 hours 22 minutes
Memory usage	17.85 GB
Reconstruction parameters	
Surface type	Arbitrary
Source data	Point cloud
Interpolation	Enabled
Strict volumetric masks	No
Processing time	1 hours 0 minutes
Memory usage	14.03 GB
Date created	2025:04:12 12:07:14
Software version	2.2.0.19890
File size	388.55 MB
DEM	
Size	7,018 x 7,136
Resolution	0.966 mm/pix
Coordinate system	Local Coordinates (m)
Reconstruction parameters	
Source data	Point cloud
Interpolation	Enabled
Processing time	1 minutes 24 seconds
Memory usage	324.55 MB
Date created	2025:04:23 10:17:27
Software version	2.2.0.19890
File size	164.65 MB
Orthomosaic	
Size	13,558 x 13,786
Resolution	0.500 mm/pix
Coordinate system	Local Coordinates (m)
Colors	3 bands, uint8

Orthophotos	2.90 GB
Reconstruction parameters	
Blending mode	Mosaic
Surface	DEM
Enable hole filling	Yes
Enable ghosting filter	No
Processing time	41 minutes 33 seconds
Memory usage	1.41 GB
Date created	2025:04:23 10:52:05
Software version	2.2.0.19890
File size	3.05 GB
System	
Software name	Agisoft Metashape Professional
Software version	2.2.0 build 19890
OS	Linux 64 bit
RAM	251.28 GB
CPU	Intel(R) Xeon(R) W-2223 CPU @ 3.60GHz
GPU(s)	NVIDIA RTX A5000