

Agisoft Metashape

Processing Report

29 April 2025



Survey Data

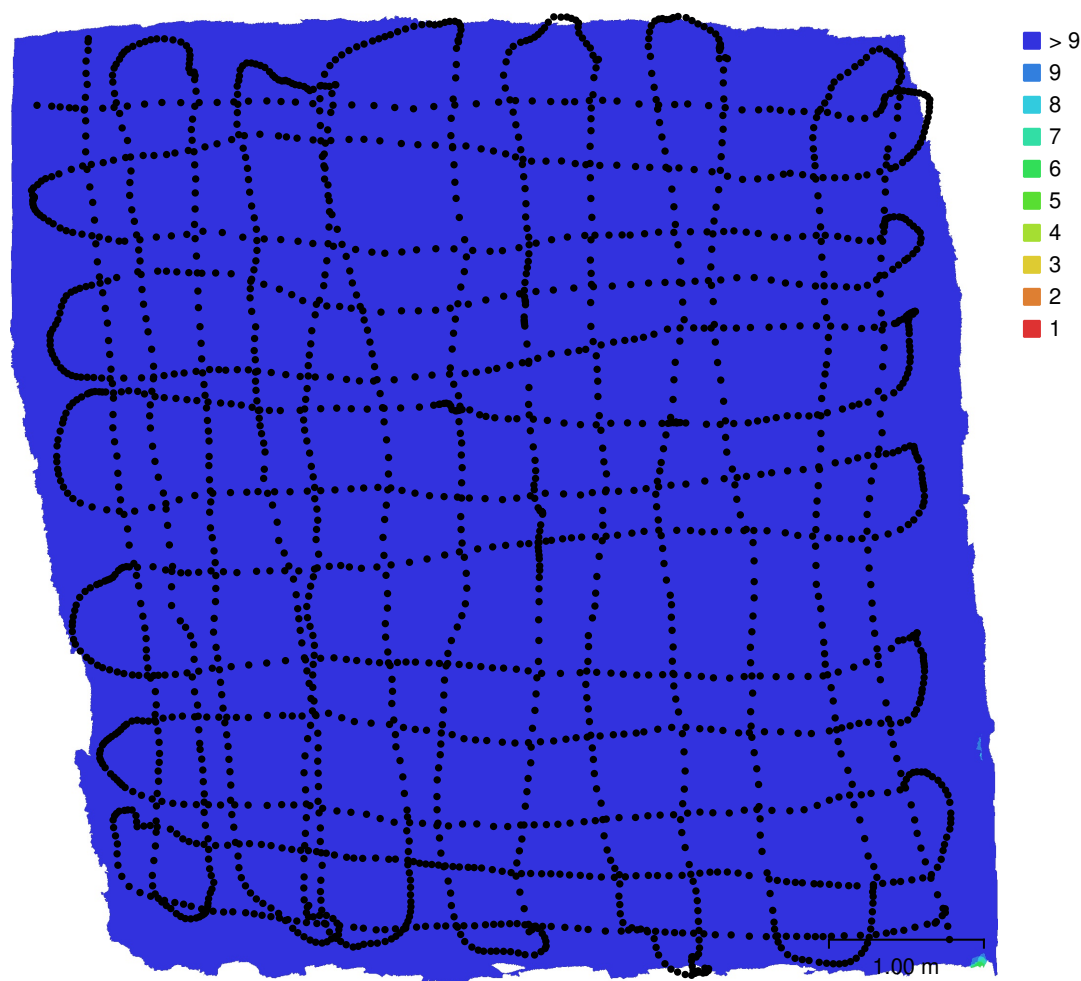


Fig. 1. Camera locations and image overlap.

Number of images:	2,247	Camera stations:	2,247
Flying altitude:	77.7 cm	Tie points:	550,313
Ground resolution:	0.248 mm/pix	Projections:	6,635,573
Coverage area:	36.0 m ²	Reprojection error:	4.56 pix

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

Table 1. Cameras.

Camera Calibration

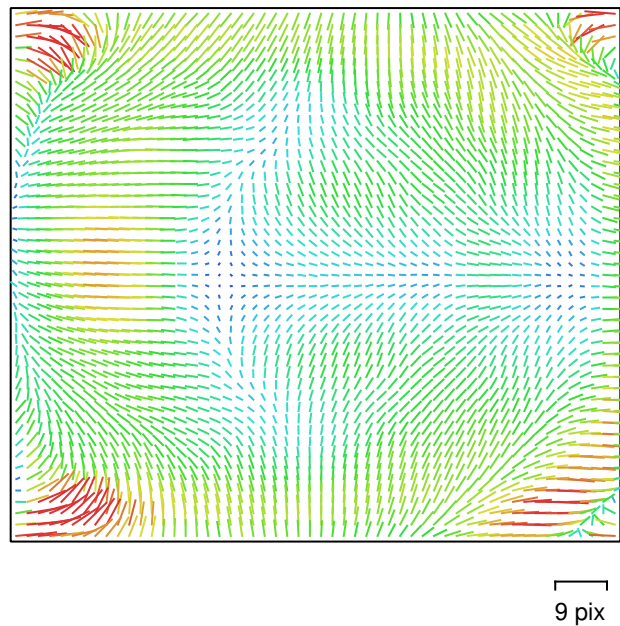


Fig. 2. Image residuals for unknown.

unknown

2247 images

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

	Value	Error	F	Cx	Cy	K1	K2	K3	P1	P2
F	3131.57	0.091	1.00	0.06	0.20	-0.07	0.27	-0.05	-0.07	0.06
Cx	-28.8685	0.02		1.00	0.00	0.05	-0.06	0.10	0.72	-0.01
Cy	-5.45192	0.019			1.00	0.01	0.02	0.01	-0.02	0.72
K1	-0.0995433	3.4e-05				1.00	-0.91	0.89	0.02	0.04
K2	0.0989165	6.9e-05					1.00	-0.96	-0.05	0.00
K3	-0.00230622	4.3e-05						1.00	0.06	0.01
P1	-0.00513033	2.3e-06							1.00	-0.01
P2	-0.000681214	2.2e-06								1.00

Table 2. Calibration coefficients and correlation matrix.

Scale Bars

Label	Distance (m)	Error (m)
point 1_point 2	4.90886	-0.0911395
point 2_point 3	5.16937	0.169365
point 3_point 4	4.91741	-0.082589
point 1_point 4	4.99531	-0.00468938
point 5_point 6	0.203786	0.00378585
point 7_point 8	0.13565	0.00565005
Total		0.0855183

Table 3. Control scale bars.

Digital Elevation Model

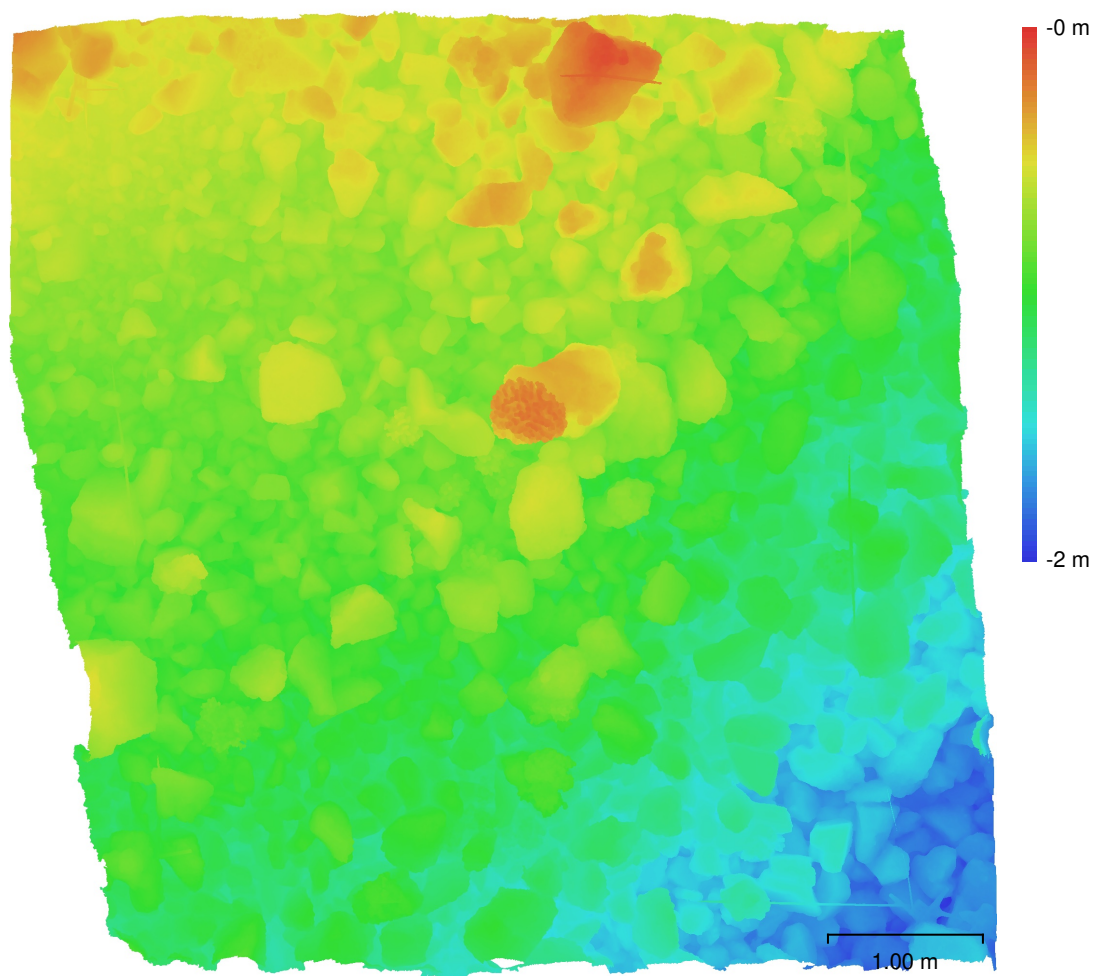


Fig. 3. Reconstructed digital elevation model.

Resolution: unknown
Point density: unknown

Processing Parameters

General

Images	2247
Aligned images	2247
Markers	8
Scale bars	6
Coordinate system	Local Coordinates (m)
Rotation angles	Yaw, Pitch, Roll

Tie Points

Points	550,313 of 792,048
RMS reprojection error	0.605089 (4.55756 pix)
Max reprojection error	1.83135 (98.8079 pix)
Mean key point size	7.81806 pix
Point colors	3 bands, uint8
Key points	7.22 GB
Average tie point multiplicity	13.8815

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	55 minutes 5 seconds
Matching memory usage	4.09 GB
Alignment time	2 hours 37 minutes
Alignment memory usage	1.88 GB
Date created	2025:04:23 12:57:17
Software version	2.2.0.19890
File size	7.81 GB

Depth Maps

Count	2247
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Depth maps generation parameters

Quality	Medium
Filtering mode	Mild
Max neighbors	16
Processing time	59 minutes 59 seconds
Memory usage	2.22 GB
Date created	2025:04:24 09:09:09
Software version	2.2.0.19890
File size	5.82 GB

Point Cloud

Points	118,951,111
Coordinate precision	0.252 mm

Point attributes

Color	3 bands, uint8
Normal	
Confidence	1 - 112

Point classes	
Created (never classified)	118,951,111
Depth maps generation parameters	
Quality	Medium
Filtering mode	Mild
Max neighbors	16
Processing time	59 minutes 59 seconds
Memory usage	2.22 GB
Point cloud generation parameters	
Source data	Depth maps
Processing time	14 hours 15 minutes
Memory usage	8.83 GB
Date created	2025:04:24 23:25:25
Software version	2.2.0.19890
File size	1.66 GB
Model	
Faces	5,467,083
Vertices	2,738,675
Vertex colors	3 bands, uint8
Texture	8,192 x 8,192, 3 bands, uint8
Depth maps generation parameters	
Quality	Medium
Filtering mode	Mild
Max neighbors	16
Processing time	59 minutes 59 seconds
Memory usage	2.22 GB
Reconstruction parameters	
Surface type	Arbitrary
Source data	Depth maps
Interpolation	Enabled
Strict volumetric masks	No
Processing time	46 minutes 26 seconds
Memory usage	9.82 GB
Texturing parameters	
Mapping mode	Generic
Blending mode	Mosaic
Texture size	8,192
Page count	1
Enable hole filling	Yes
Enable ghosting filter	Yes
UV mapping time	5 minutes 3 seconds
UV mapping memory usage	2.28 GB
Blending time	26 minutes 14 seconds
Blending memory usage	4.48 GB
Blending GPU memory usage	2.46 GB
Date created	2025:04:29 10:24:11
Software version	2.2.0.19890
File size	331.32 MB
DEM	
Size	6,351 x 6,897
Resolution	1.01 mm/pix
Coordinate system	Local Coordinates (m)
Reconstruction parameters	
Source data	Point cloud
Interpolation	Enabled
Processing time	41 seconds

Memory usage	305.21 MB
Date created	2025:04:29 08:02:58
Software version	2.2.0.19890
File size	146.13 MB
Orthomosaic	
Size	12,786 x 13,885
Resolution	0.500 mm/pix
Coordinate system	Local Coordinates (m)
Colors	3 bands, uint8
Orthophotos	3.38 GB
Reconstruction parameters	
Blending mode	Mosaic
Surface	DEM
Enable hole filling	Yes
Enable ghosting filter	No
Processing time	37 minutes 35 seconds
Memory usage	1.58 GB
Date created	2025:04:29 08:37:29
Software version	2.2.0.19890
File size	3.54 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