

Agisoft Metashape

正在处理报告

24 February 2025



Survey Data

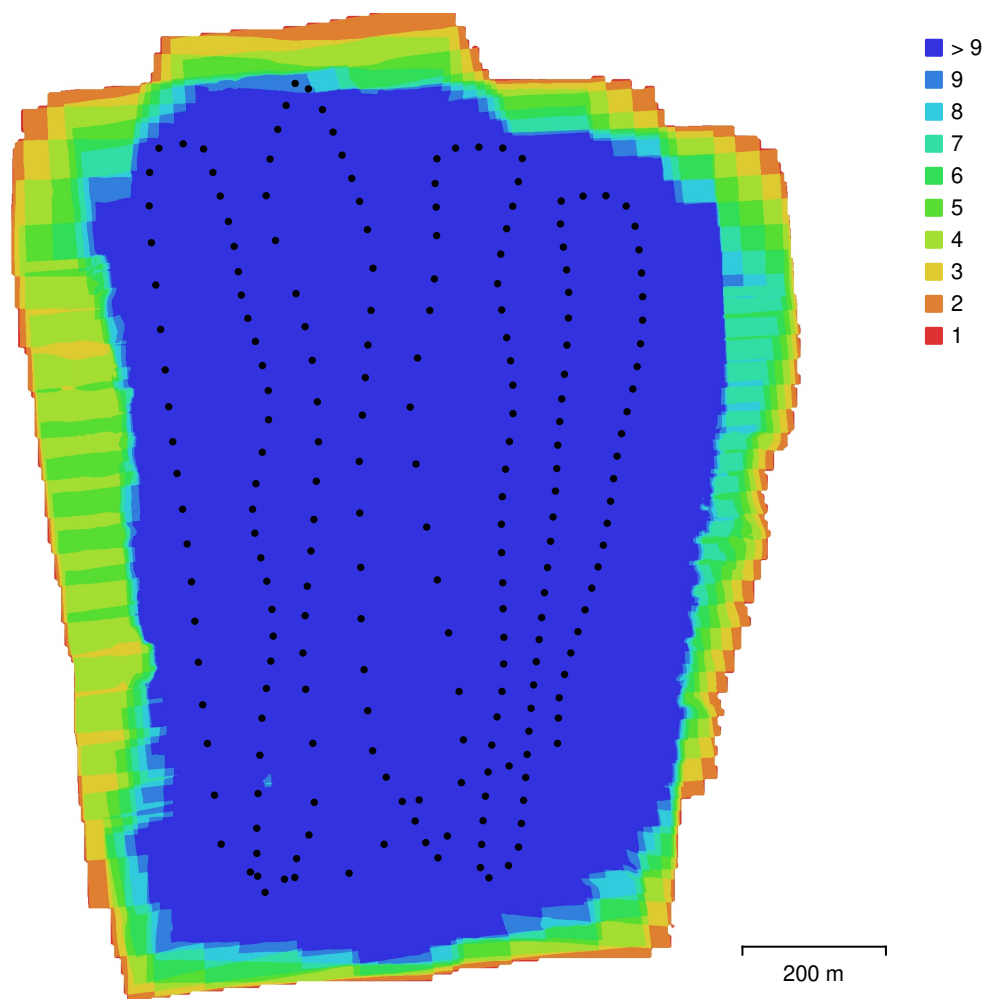


Fig. 1. Camera locations and image overlap.

Number of images:	206	Camera stations:	206
Flying altitude:	272 m	Tie points:	43,715
Ground resolution:	21.3 cm/pix	Projections:	169,821
Coverage area:	1.23 km ²	Reprojection error:	1.19 pix

Camera Model	Resolution	Focal Length	Pixel Size	Precalibrated
NPU	1920 x 1080	unknown	unknown	No

Table 1. Cameras.

Camera Calibration

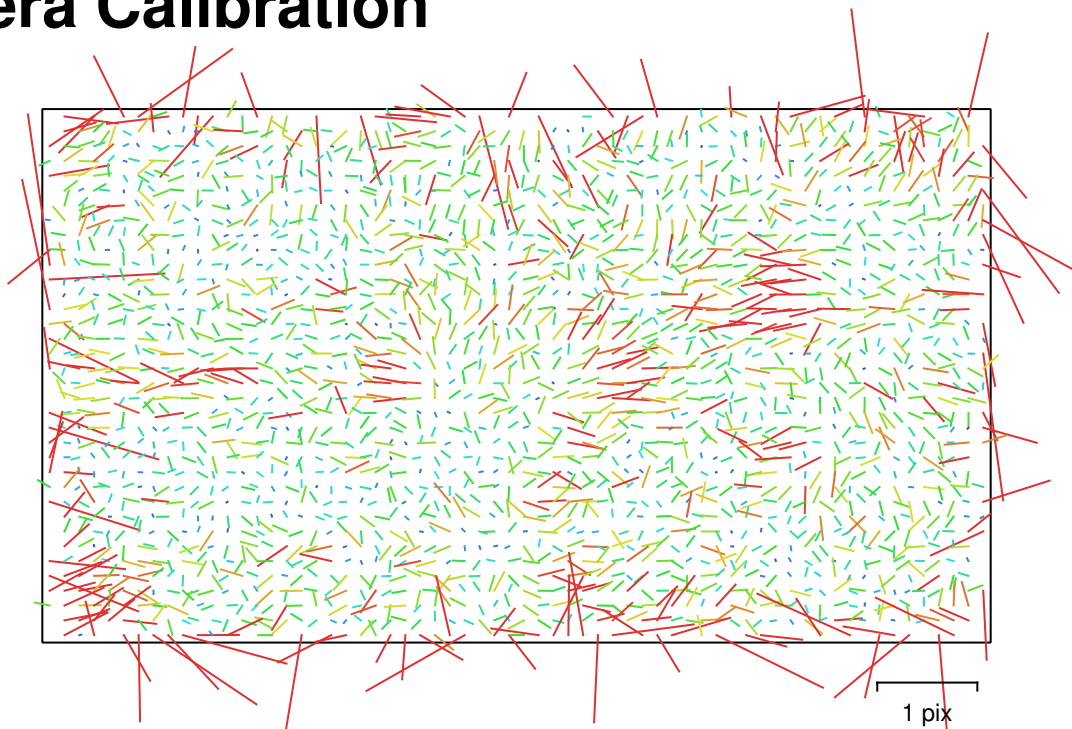


Fig. 2. Image residuals for NPU.

NPU

206 images

Type	Resolution	Focal Length	Pixel Size
Frame	1920 x 1080	unknown	unknown

	Value	Error	F	K1
F	1278.94	3.5	1.00	0.21
K1	0.00412342	0.00028		1.00

Table 2. Calibration coefficients and correlation matrix.

Camera Locations



Fig. 3. Camera locations and error estimates.

Z error is represented by ellipse color. X,Y errors are represented by ellipse shape.

Estimated camera locations are marked with a black dot.

X error (m)	Y error (m)	Z error (m)	XY error (m)	Total error (m)
0.413182	0.440089	3.44373	0.603654	3.49624

Table 3. Average camera location error.

X - Longitude, Y - Latitude, Z - Altitude.

Digital Elevation Model

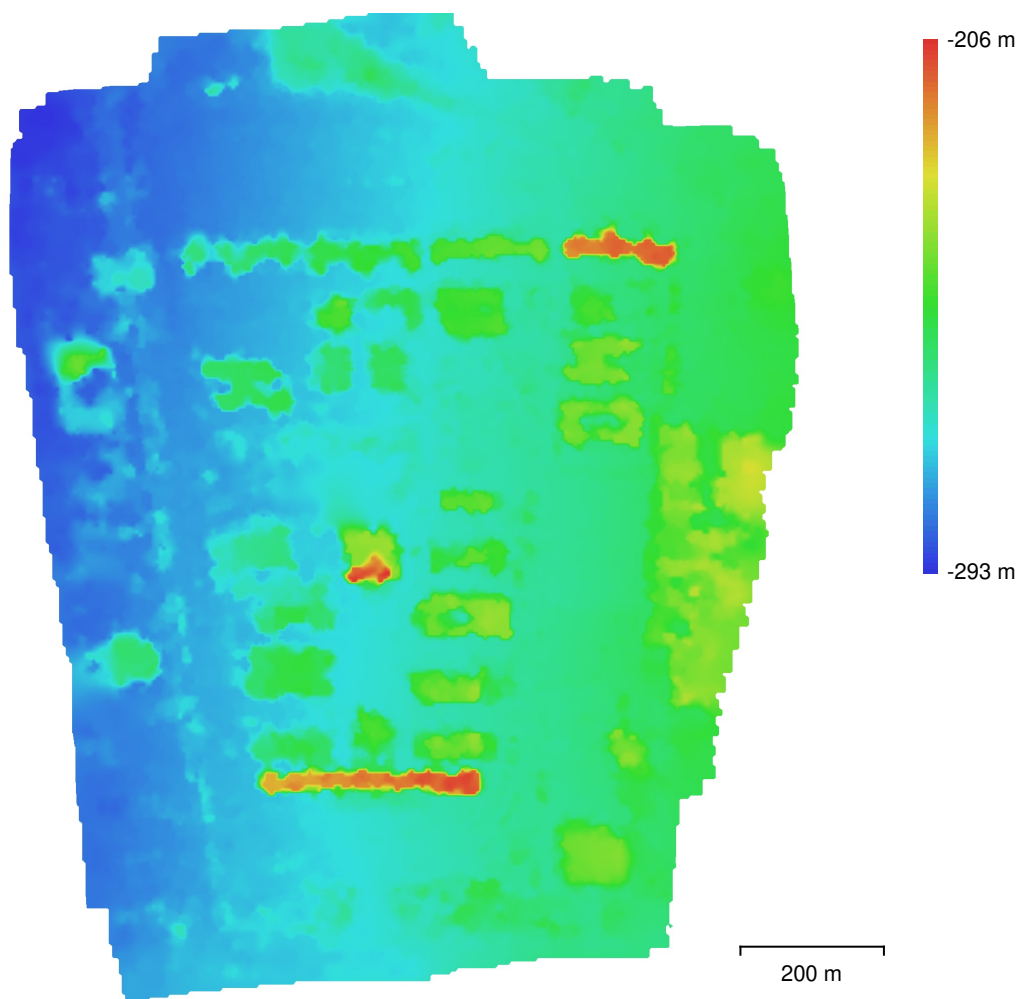


Fig. 4. Reconstructed digital elevation model.

Resolution: 4.62 m/pix
Point density: 0.0469 points/m²

Processing Parameters

General

Images	206
Aligned images	206
Coordinate system	WGS 84 (EPSG::4326)
Rotation angles	Yaw, Pitch, Roll

Tie Points

Points	43,715 of 53,266
RMS reprojection error	0.151871 (1.18506 pix)
Max reprojection error	0.461441 (20.7241 pix)
Mean key point size	7.53509 pix
Point colors	3 bands, uint8
Key points	No
Average tie point multiplicity	4.36427

Alignment parameters

Accuracy	Medium
Generic preselection	Yes
Reference preselection	Source
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	Yes
Adaptive camera model fitting	Yes
Matching time	26 seconds
Matching memory usage	413.54 MB
Alignment time	41 seconds
Alignment memory usage	127.05 MB
Date created	2025:02:24 17:33:17
Software version	2.1.3.18946
File size	11.79 MB

DEM

Size	336 x 344
Resolution	4.62 m/pix
Coordinate system	WGS 84 (EPSG::4326)

Reconstruction parameters

Source data	Tie points
Interpolation	Enabled
Processing time	0 seconds
Memory usage	448.00 KB
Date created	2025:02:24 18:08:56
Software version	2.1.3.18946
File size	302.69 KB

Orthomosaic

Size	10,986 x 13,756
Resolution	10.0 cm/pix
Coordinate system	WGS 84 (EPSG::4326)
Colors	3 bands, uint8
Orthophotos	345.63 MB

Reconstruction parameters

Blending mode	Mosaic
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Surface	DEM
Enable hole filling	Yes
Enable ghosting filter	No
Processing time	56 seconds
Memory usage	1.31 GB
Date created	2025:02:24 18:09:50
Software version	2.1.3.18946
File size	418.55 MB
System	
Software name	Agisoft Metashape Professional
Software version	2.1.3 build 18946
OS	Linux 64 bit
RAM	62.51 GB
CPU	Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz
GPU(s)	NVIDIA GeForce GTX 1070