Agisoft Metashape

Processing Report
14 January 2026

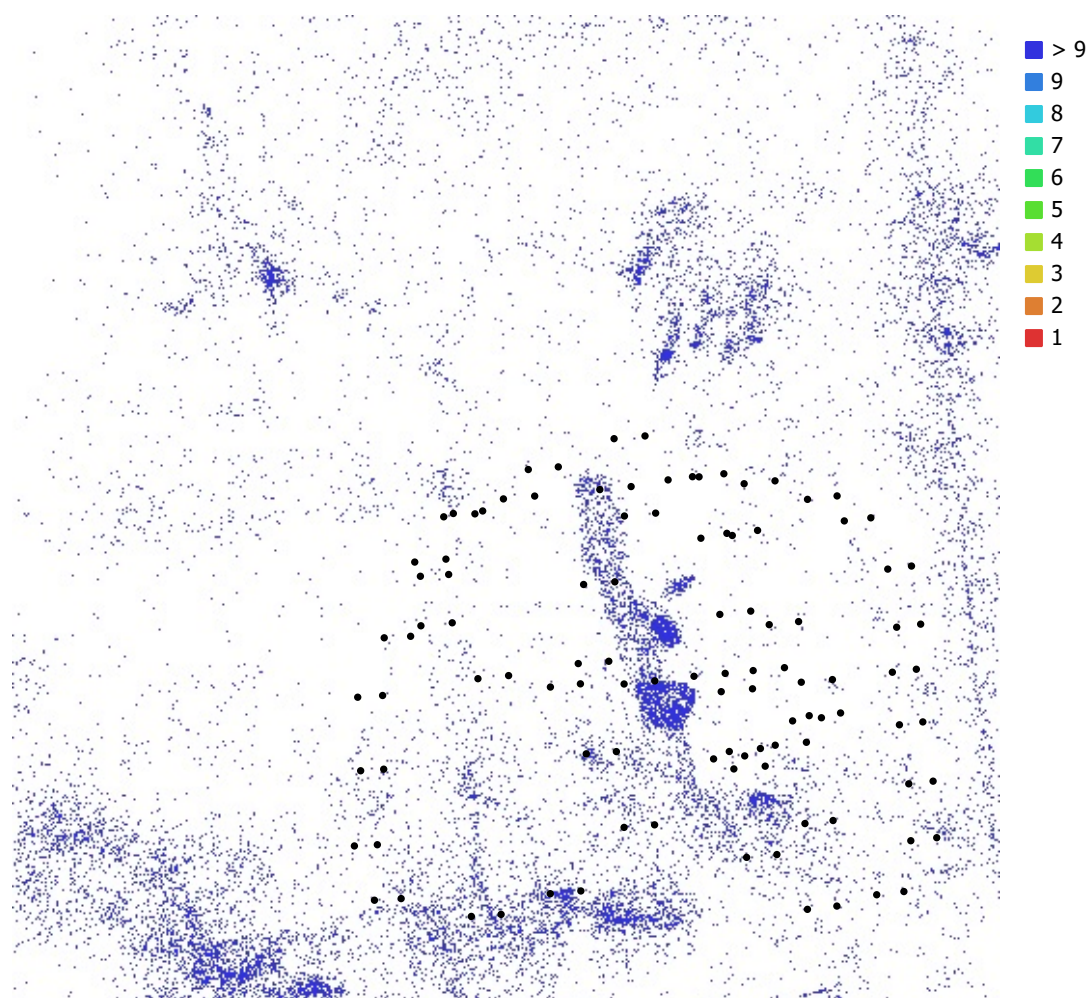# Survey Data

Fig. 1. Camera locations and image overlap.

Number of images:	106	Camera stations:	106
		Tie points:	24,849
		Projections:	68,628
		Reprojection error:	2.26 pix

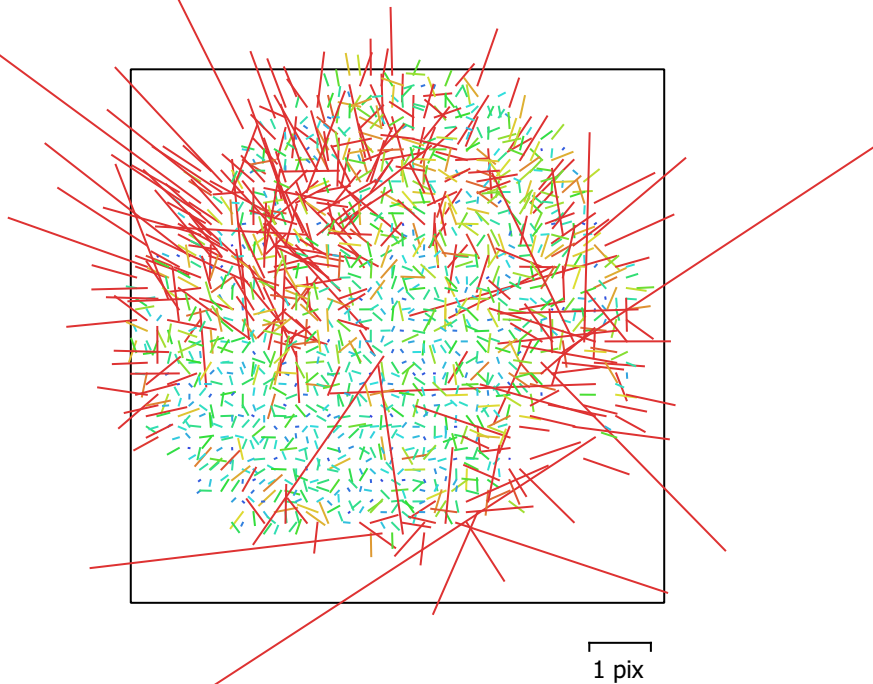| Camera Model	Resolution	Focal Length	Pixel Size	Precalibrated
unknown	3840 x 3840	unknown	unknown	No
unknown	3840 x 3840	unknown	unknown	No

Table 1. Cameras.

Camera Calibration

1 pix

Fig. 2. Image residuals for unknown.

unknown

53 images

Type	Resolution	Focal Length	Pixel Size
Fisheye	**3840 x 3840**	**unknown**	**unknown**

	Value	Error	F	Cx	Cy	K1	K2	K3	P1	P2
F	**1187.79**	0.23	1.00	-0.03	-0.11	-0.63	0.40	-0.33	-0.03	0.15
Cx	**-13.4883**	0.41		1.00	-0.09	0.05	-0.07	0.07	-0.84	0.07
Cy	**-11.8416**	0.73			1.00	0.04	-0.01	-0.01	0.02	-0.95
K1	**-0.00706578**	0.00021				1.00	-0.93	0.85	-0.07	-0.08
K2	**-0.00177969**	0.00014					1.00	-0.97	0.12	0.05
K3	**-0.00197268**	2.8e-05						1.00	-0.12	-0.02
P1	**0.000317926**	3e-05							1.00	0.02
P2	**0.00081304**	6.1e-05								1.00

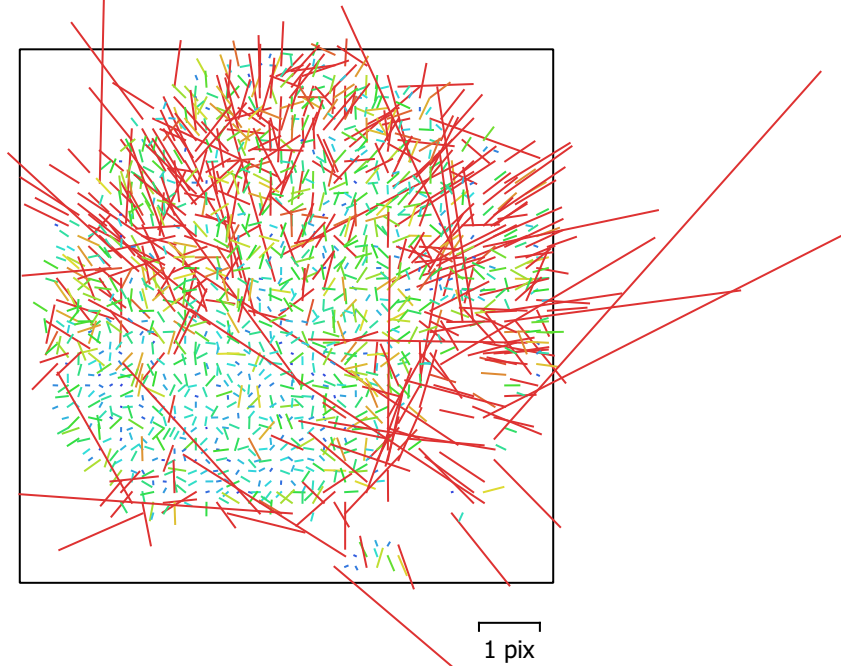Table 2. Calibration coefficients and correlation matrix.

Camera Calibration

Fig. 3. Image residuals for unknown.

unknown

53 images

Type	Resolution	Focal Length	Pixel Size
Fisheye	**3840 x 3840**	**unknown**	**unknown**

	Value	Error	F	Cx	Cy	K1	K2	K3	P1	P2
F	**1188.53**	0.23	1.00	-0.04	-0.09	-0.61	0.37	-0.29	-0.03	0.13
Cx	**-6.64994**	0.41		1.00	-0.07	0.04	-0.04	0.04	-0.84	0.05
Cy	**-9.11737**	0.73			1.00	0.04	-0.01	0.00	0.00	-0.95
K1	**-0.00729792**	0.0002				1.00	-0.93	0.84	-0.09	-0.09
K2	**-0.00158395**	0.00014					1.00	-0.97	0.15	0.05
K3	**-0.00203872**	2.8e-05						1.00	-0.17	-0.03
P1	**0.000508061**	3e-05							1.00	0.04
P2	**0.000734869**	6e-05								1.00

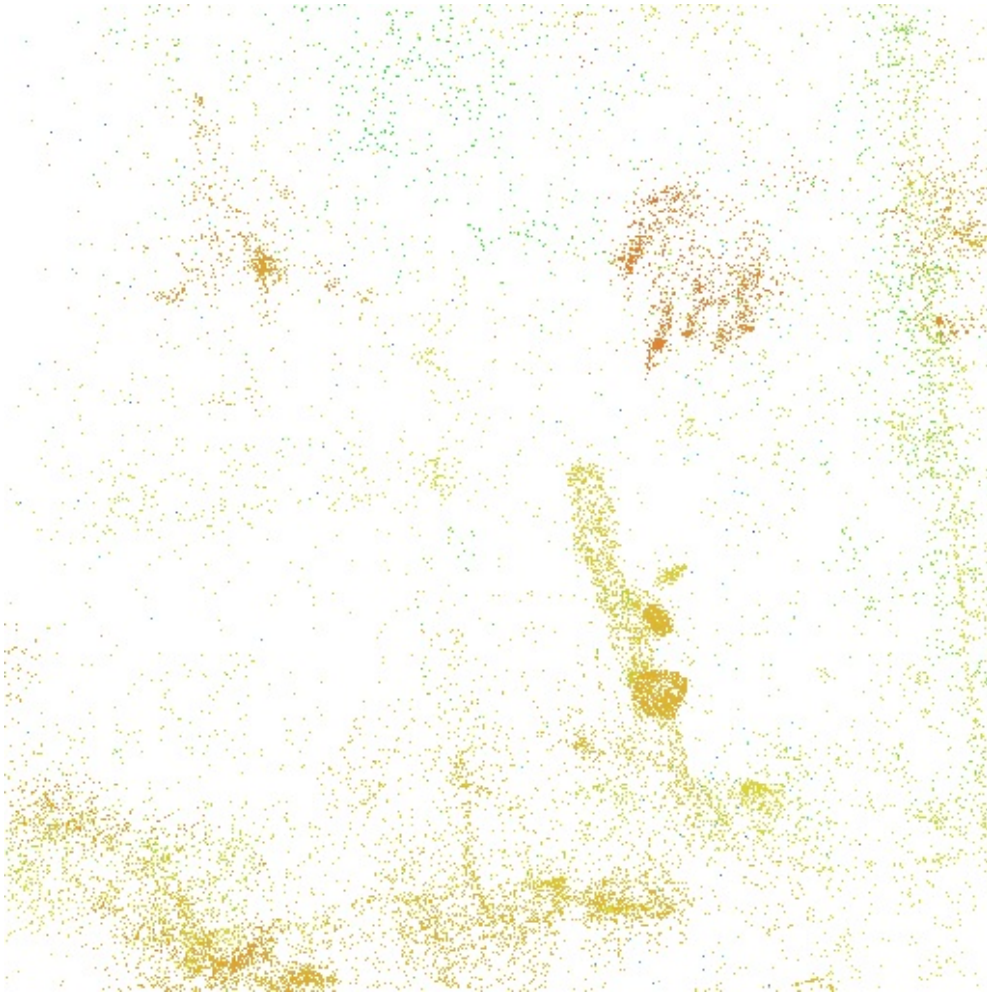Table 3. Calibration coefficients and correlation matrix.

Digital Elevation Model

Fig. 4. Reconstructed digital elevation model.

Processing Parameters

General

Images	106
Aligned images	106

Tie Points

Points	24,849 of 39,640
RMS reprojection error	0.35202 (2.26289 pix)
Max reprojection error	1.13356 (59.1537 pix)
Mean key point size	5.2681 pix
Point colors	3 bands, uint8
Key points	No
Average tie point multiplicity	2.83055

Alignment parameters

Accuracy	High
Generic preselection	Yes
Reference preselection	Sequential
Key point limit	80,000
Key point limit per Mpx	1,000
Tie point limit	10,000
Filter points by mask	Yes
Mask tie points	Yes
Exclude stationary tie points	No
Guided image matching	No
Adaptive camera model fitting	No
Matching time	8 minutes 49 seconds
Matching memory usage	726.89 MB
Alignment time	25 seconds
Alignment memory usage	38.14 MB
Date created	2026:01:14 16:30:57
Software version	2.3.0.21868
File size	6.67 MB

System

Software name	Agisoft Metashape Standard
Software version	2.3.0 build 21868
OS	Windows 64 bit
RAM	31.89 GB
CPU	Intel(R) Core(TM) i5-8600K CPU @ 3.60GHz
GPU(s)	NVIDIA GeForce RTX 3060