## **Agisoft Metashape**

Processing Report 27 June 2024



## Survey Data

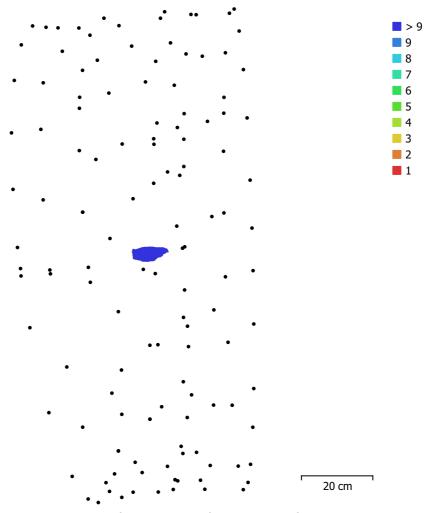
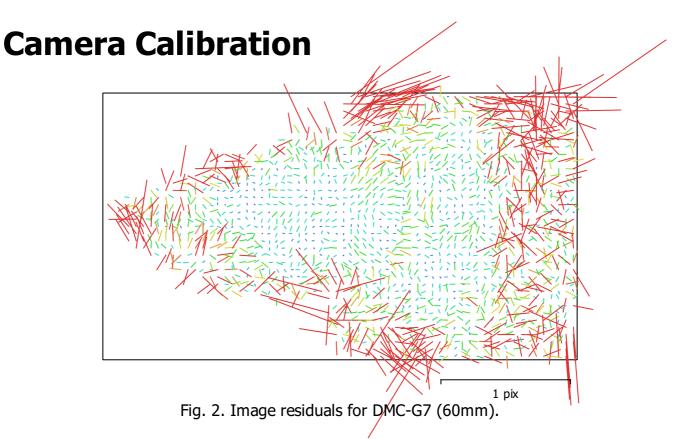


Fig. 1. Camera locations and image overlap.

Number of images: Camera stations: 131 131 66.7 cm Flying altitude: Tie points: 311,676 Ground resolution: 0.0421 mm/pix Projections: 874,062 Coverage area: 32.3 cm<sup>2</sup> Reprojection error: 0.899 pix

<b>Camera Model</b>	Resolution	Focal Length	Pixel Size	Precalibrated
DMC-G7 (60mm)	4592 x 2584	60 mm	3.79 x 3.79 µm	No
DMC-G7 (60mm)	4592 x 2584	60 mm	3.79 x 3.79 µm	No

Table 1. Cameras.



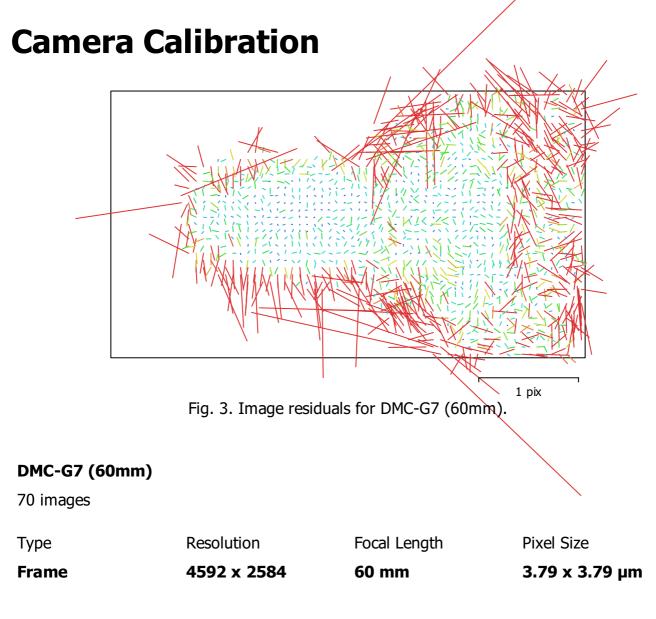
#### **DMC-G7 (60mm)**

61 images

Frame	4592 x 2584	60 mm	3.79 x 3.79 µm
Type	Resolution	Focal Length	Pixel Size

	Value	Error	K1	P1	P2
F	15831.7				
К1	0.103812	0.00071	1.00	0.34	0.23
P1	0.00342907	6.1e-05		1.00	0.07
P2	-0.00406139	5.1e-05			1.00

Table 2. Calibration coefficients and correlation matrix.



	Value	Error	P1	P2
F	15831.7			
P1	0.0163439	0.00024	1.00	0.03
P2	-0.00281553	0.0001		1.00

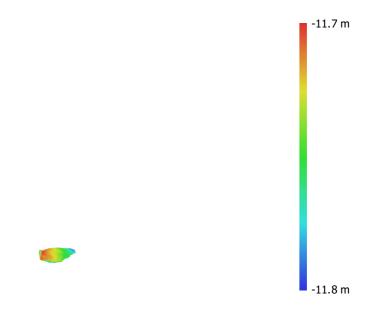
Table 3. Calibration coefficients and correlation matrix.

### **Scale Bars**

Label	Distance (m)	Error (m)
target 19_target 20	0.05	-3.92873e-12
Total		3.92873e-12

Table 4. Control scale bars.

## **Digital Elevation Model**



20 cm

Fig. 4. Reconstructed digital elevation model.

Resolution: 0.506 mm/pix
Point density: 3.91 points/mm<sup>2</sup>

# **Processing Parameters**

General	
Cameras	131
Aligned cameras	131
Markers	4
Scale bars	1
Γie Points	
Points	311,676 of 361,354
RMS reprojection error	0.245861 (0.899128 pix)
Max reprojection error	0.874848 (59.5612 pix)
Mean key point size	3.17674 pix
Point colors	3 bands, uint8
Key points	No
Average tie point multiplicity	3.03451
File size	24.92 MB
Model	
Faces	50,000
Vertices	25,002
Vertex colors	3 bands, uint8
Texture	8,192 x 8,192, 4 bands, uint8
Depth maps generation parameters	
Quality	Ultra High
Filtering mode	Mild
Max neighbors	16
Processing time	6 minutes 37 seconds
Memory usage	5.13 GB
Reconstruction parameters	
Surface type	Arbitrary
Source data	Depth maps
Interpolation	Enabled
Strict volumetric masks	No
Processing time	1 minutes 44 seconds
Memory usage	8.12 GB
Texturing parameters	
Mapping mode	Generic
Blending mode	Mosaic
Texture size	8,192
Enable hole filling	Yes
Enable ghosting filter	Yes
UV mapping time	3 seconds
UV mapping memory usage	100.71 MB
Blending time	44 seconds
Blending memory usage	2.86 GB
Blending GPU memory usage	1.87 GB
Date created	2024:06:14 16:14:45
Software version	1.8.4.14671
File size	38.20 MB
System	
Software name	Agisoft Metashape Standard
Software version	2.1.1 build 17821

OS

Windows 64 bit

RAM CPU GPU(s) 15.70 GB Intel(R) Core(TM) i9-9980HK CPU @ 2.40GHz Quadro T2000