### **Agisoft Metashape**

Processing Report 12 June 2019



#### **Survey Data**

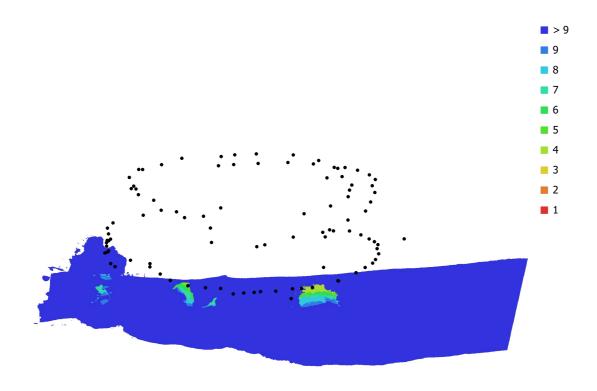


Fig. 1. Camera locations and image overlap.

Number of images: 99 Camera stations: 98

Tie points: 74,783

Projections: 315,299

Reprojection error: 0.906 pix

Camera Model	Resolution	Focal Length	Pixel Size	Precalibrated
Canon PowerShot G12 (6.1mm)	3648 x 2736	6.1 mm	2.03 x 2.03 µm	No

Table 1. Cameras.

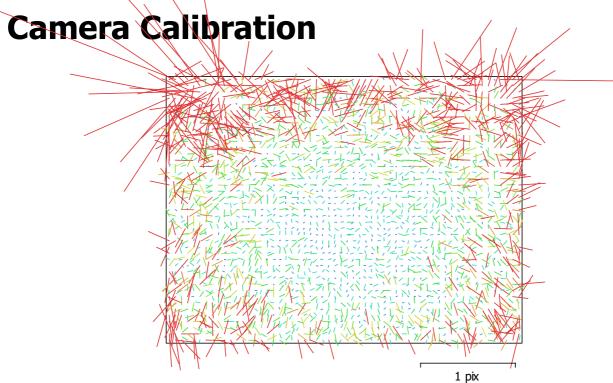


Fig. 2. Image residuals for Canon PowerShot G12 (6.1mm).

#### Canon PowerShot G12 (6.1mm)

99 images

Type	Resolution	Focal Length	Pixel Size
Frame	3648 x 2736	6.1 mm	2.03 x 2.03 μm

	Value	Error	F	Cx	Су	K1	К2	кз	P1	P2
F	3077.33	0.094	1.00	-0.04	-0.49	-0.21	0.25	-0.21	-0.01	-0.24
Сх	-16.5269	0.14		1.00	-0.01	0.01	0.00	0.01	0.88	-0.02
Су	-93.445	0.13			1.00	-0.01	-0.02	0.02	-0.06	0.56
К1	-0.154214	0.00012				1.00	-0.95	0.88	-0.01	-0.10
К2	0.140583	0.00046					1.00	-0.98	0.00	0.04
кз	-0.0383513	0.00057						1.00	0.01	-0.03
P1	0.000182196	1.1e-005							1.00	-0.01
P2	-0.000666383	9e-006								1.00

Table 2. Calibration coefficients and correlation matrix.

## **Digital Elevation Model**

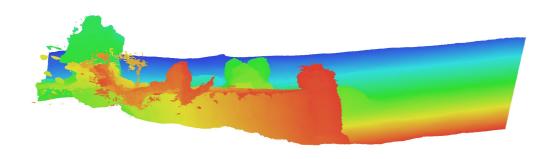


Fig. 3. Reconstructed digital elevation model.

# **Processing Parameters**

General	
Cameras	99
Aligned cameras	98
Coordinate system	Local Coordinates (m)
Rotation angles	Yaw, Pitch, Roll
Point Cloud	
Points	74,783 of 98,118
RMS reprojection error	0.348137 (0.90606 pix)
Max reprojection error	1.08218 (26.5575 pix)
Mean key point size	2.83681 pix
Point colors	3 bands, uint8
Key points	No
Average tie point multiplicity	4.36914
Alignment parameters	
Accuracy	Highest
Generic preselection	Yes
Key point limit	70,000
Tie point limit	4,000
Adaptive camera model fitting	, No
Matching time	13 minutes 28 seconds
Alignment time	1 minutes 9 seconds
Software version	1.5.2.7838
Depth Maps	
Count	98
Depth maps generation parameters	
Quality	High
Filtering mode	Mild
Processing time	1 days 10 hours
Dense Point Cloud	·
Points	18,481,282
Point colors	3 bands, uint8
Depth maps generation parameters	
Quality	High
Filtering mode	Mild
Processing time	1 days 10 hours
Dense cloud generation parameters	·
Processing time	1 hours 39 minutes
Software version	1.5.2.7838
Model	
Faces	3,696,197
Vertices	1,854,835
Vertex colors	3 bands, uint8
Texture	4,096 x 4,096, 4 bands, uint8
Depth maps generation parameters	
Quality	High
Filtering mode	Mild
Processing time	1 days 10 hours
Reconstruction parameters	
Surface type	Arbitrary

Source data

Dense cloud

#### General

Interpolation Enabled Strict volumetric masks No

Processing time 23 minutes 22 seconds

**Texturing parameters** 

Blending mode Mosaic
Texture size 4,096
Enable hole filling Yes
Enable ghosting filter Yes

UV mapping time 2 minutes 17 seconds
Blending time 12 minutes 28 seconds

Software version 1.5.2.7838

**Software** 

Version 1.5.2 build 7838 Platform Windows 64