

Agisoft PhotoScan

Processing Report

28 November 2019



Survey Data

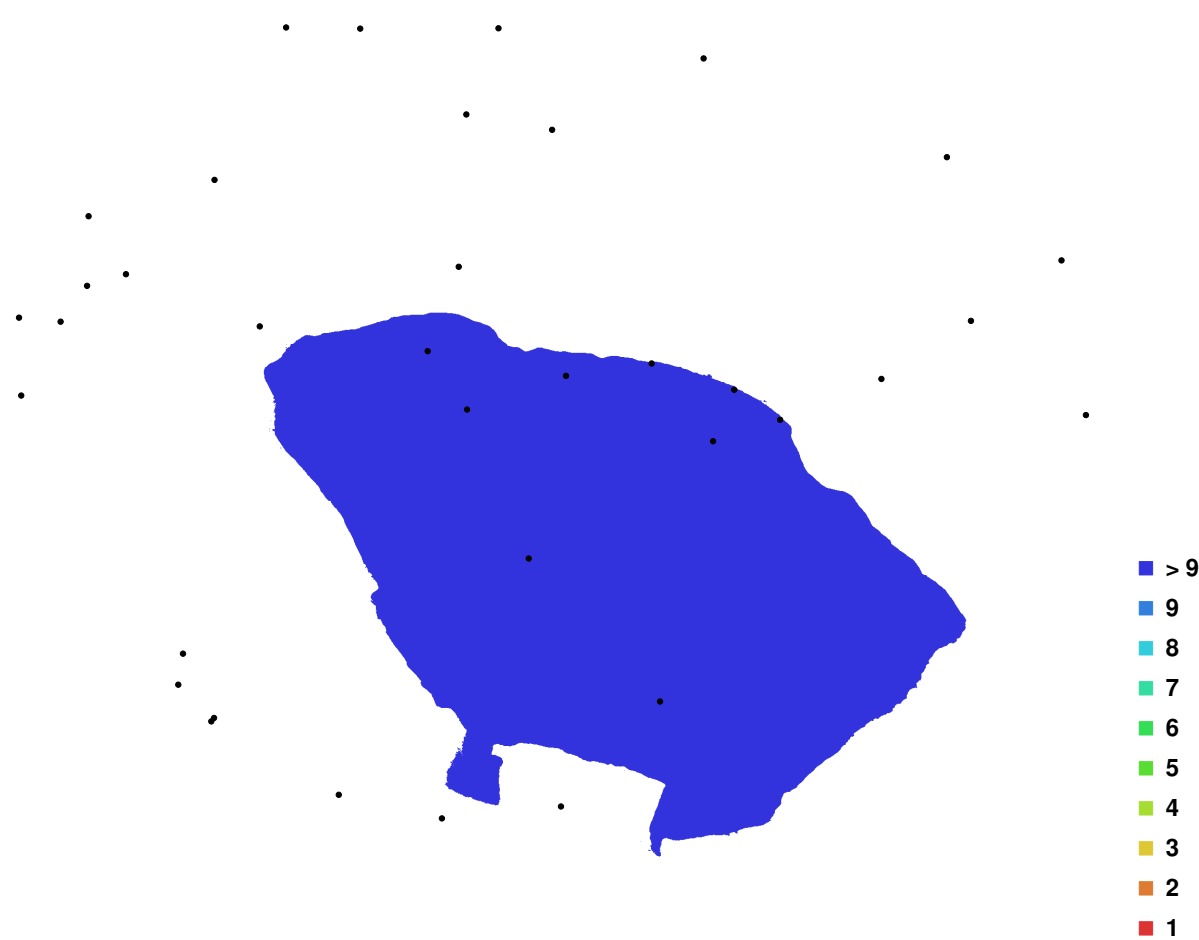


Fig. 1. Camera locations and image overlap.

Number of images:	36	Camera stations:	36
		Tie points:	30,850
		Projections:	83,264
		Reprojection error:	0.783 pix

Camera Model	Resolution	Focal Length	Pixel Size	Precalibrated
Canon EOS 2000D (18mm)	6000 x 4000	18 mm	3.77 x 3.77 μ m	No

Table 1. Cameras.

Camera Calibration

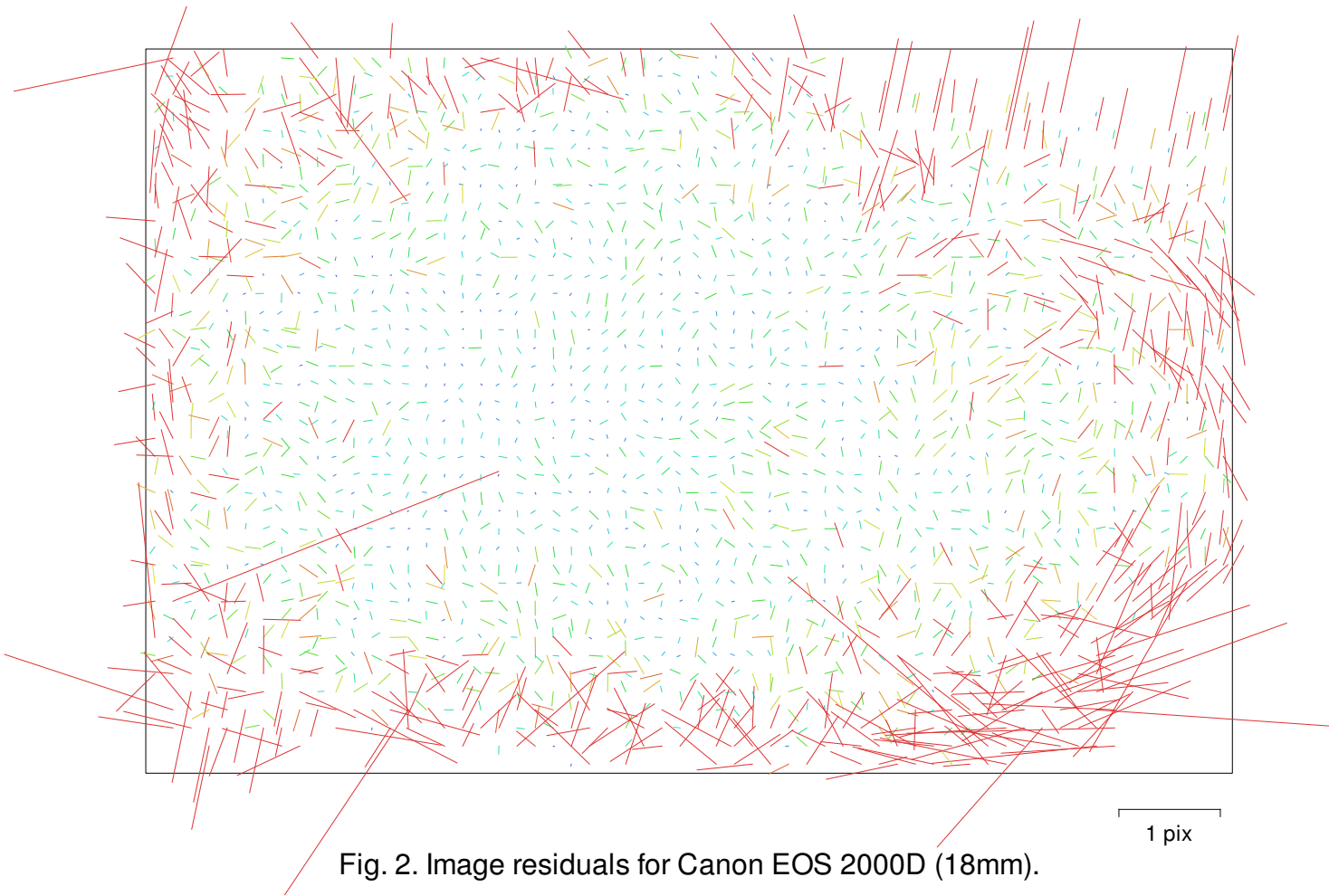


Fig. 2. Image residuals for Canon EOS 2000D (18mm).

Canon EOS 2000D (18mm)

36 images

Resolution	Focal Length	Pixel Size	Precalibrated
6000 x 4000	18 mm	3.77 x 3.77 μm	No
Type:	Frame	F:	4880.36
Cx:	0	B1:	0
Cy:	0	B2:	-3.12807
K1:	-0.171871	P1:	0.00124688
K2:	0.145326	P2:	-9.91183e-05
K3:	0	P3:	0
K4:	0	P4:	0

Digital Elevation Model

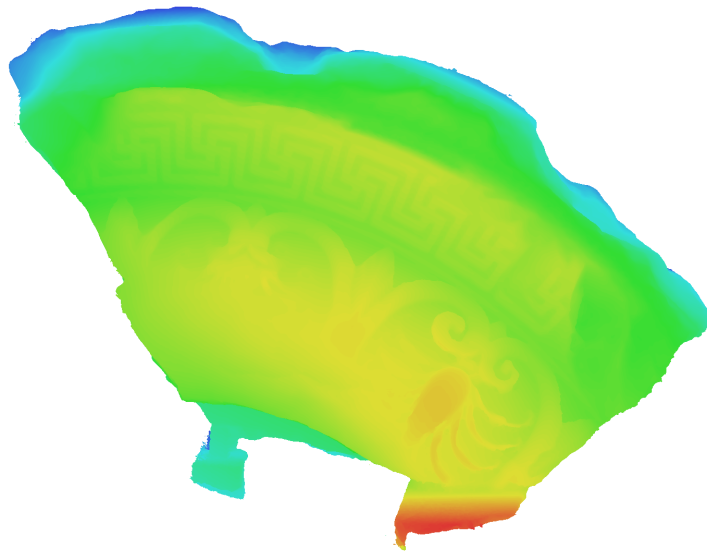


Fig. 3. Reconstructed digital elevation model.

Processing Parameters

General

Cameras	36
Aligned cameras	36
Coordinate system	Local Coordinates (m)

Point Cloud

Points	30,850 of 51,724
RMS reprojection error	0.128629 (0.782749 pix)
Max reprojection error	0.414581 (12.9364 pix)
Mean key point size	5.97367 pix
Effective overlap	2.7441

Alignment parameters

Accuracy	High
Key point limit	40,000
Tie point limit	4,000
Adaptive camera model fitting	Yes
Matching time	1 minutes 29 seconds
Alignment time	30 seconds

Dense Point Cloud

Points	25,640,941
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Reconstruction parameters

Quality	High
Depth filtering	Aggressive
Depth maps generation time	24 minutes 45 seconds
Dense cloud generation time	2 minutes 51 seconds

Model

Faces	983,439
Vertices	494,184
Texture	4,096 x 4,096, uint8

Reconstruction parameters

Surface type	Arbitrary
Source data	Dense
Interpolation	Enabled
Quality	High
Depth filtering	Aggressive
Face count	1,709,395
Processing time	34 minutes 22 seconds

Texturing parameters

Blending mode	Mosaic
Texture size	4,096 x 4,096
Enable hole filling	Yes
UV mapping time	1 minutes 12 seconds
Blending time	1 minutes 39 seconds

Tiled Model

Reconstruction parameters

Source data	Dense cloud
Tile size	256
Processing time	2 hours 0 minutes

Orthomosaic

Size	8,185 x 6,329
Coordinate system	Local Coordinates (m)
Channels	3, uint8
Blending mode	Mosaic

Reconstruction parameters

Surface	Mesh
Processing time	34 seconds

Software

Version
Platform

1.2.6 build 2834
Linux 64 bit