

**Processing Report**  
**13 May 2015**



NIVOLA DI PUNTI

**Fig. 5. Reconstructed digital elevation model**

Resolution: 0.136766 m/pix  
Point density: 51,9321 points per sq m

Fig. 1. Camera locations and image overlap

Number of images:	1758	Camera stations:	1746
Flying altitude:	78,9997 m	Tie-points:	45024
Ground resolution:	0.0346914 mpix	Projections:	627926
Coverage area:	0.212292 sq km	Error:	33.5048 pixels

Camera Model	Resolution	Focal Length	Pixel Size	Precalibrated
Hero3-Black Edition (2.77 mm)	3000 × 2250	2.77 mm	1.59798 × 1.59798 $\mu\text{m}$	No
Hero3-Black Edition (2.77 mm)	2250 × 3000	2.77 mm	1.59798 × 1.59798 $\mu\text{m}$	No

Table. 1. Cameras

Fig. 2. Image residuals for Herc3-Black Edition (2.77 mm)

Her03-Black Edition (2.77 mm)

Type:	Fish/Re	K1:	-0.190977
Fx:	1934.92	K2:	0.337518
Fy:	1984.02	K3:	-0.213253
Cx:	1533.26	K4:	0
Cy:	1057.6	P1:	0.09540291
Show:	-1.07291	P2:	-0.0702457

Fig. 3. Image residuals for Hero3-Black Edition (2.77 mm).

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Type	Fishery	K1
Fx	1769.22	K2: 0.125908
Fy	1775.43	K3: 0.6523779
Cx	1184.29	K4: 0
Cy	1480.81	P1: -0.00322832
Skew	-2.86483	P2: -0.00596688

**Fig. 4. GCP locations**

Label	$\gamma$ (mm)	$\gamma$ (mm)	$Z$ (mm)	$E$ (mm)	$E$ (mm)	Projections	Error (bottom)
point 01	0.197384	0.172005	0.105603	0.170008	74	12.748689	0.000000
point 04	0.465441	0.101521	0.007065	0.120442	86	12.714646	0.000000
point 06	0.146771	0.033091	0.146274	0.156585	86	10.994645	0.000000
point 08	0.192071	0.308789	0.241680	0.655555	113	11.078283	0.000000
point 09	0.637946	0.313860	0.115923	0.456858	20	16.560007	0.000000
point 08	0.096150	0.032946	0.003035	0.088408	205	19.444617	0.000000
point 10	0.172648	0.130147	0.213944	0.287460	107	8.072224	0.000000
point 10	0.532341	0.150541	0.644576	2.407303	284	9.377150	0.000000
point 11	0.445703	0.319349	0.340243	0.5017	207	7.802170	0.000000
point 12	0.048105	0.373555	0.261080	0.729171	104	22.956857	0.000000

[illegible][illegible]

Label	X error (m)	Y error (m)	Z error (m)	Error (m)	Projections	Error (pix)
point N34-1	1.996618	-0.411507	-1.0743619	10.806318	129	10.1039649
point N35	0.872454	-1.315443	3.582732	4.284124	96	7.644668
Total	3.008948	4.336835	5.515185	7.633866	8246	14.2383300

Table. 2. Control points

Label	X error (m)	Y error (m)	Z error (m)	Error (m)	Projections	Error (pix)
point 45					3	0.000002
Total						

Table 3. Check points

[illegible]

**COMUNE DI BIANCAVILLA** Provincia di Catania

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