

MATCH-AT log file (aat.log) project:

R:\Projekte\31482-08_Sihlwald-1980\20_AT_CIR \Sihlwald-1980_cir.prj

Start Post Processing: Tue Nov 25 10:24:28 2008

- [Standard deviations \(a-priori\)](#) :
 - [Tie Point Generator](#)
 - [total of 7959 measurements in 116 photos are used for adjustment](#)
 - [standard deviations of exterior orientation parameters \(px, py, pz in \[meter\] omega,phi,kappa in \[grd/1000\]\)](#)
 - [residuals horizontal control points in \[meter\]](#)
 - [residuals vertical control points in \[meter\]](#)
 - [exterior orientation parameters \(px, py, pz in \[meter\] omega,phi,kappa in \[grd\]\)](#)
 - **[WARNING: Suspect orientation angle\(s\) \(> 5.00000 \[grd\]\) in following photo\(s\):](#)**
 - [Sigma naught : 7.1 \[micron\] = 0.5 \[pixel in level 0\]](#)
 - [Elapsed time = 0 hour 0 min. 7 sec.](#)
 - [End of Post Processing: Tue Nov 25 10:24:34 2008](#)
-

Start Post Processing: Tue Nov 25 10:24:28 2008

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```
Block : complete Block
Number of photos : 116
Number of strips : 5

Photo scale : 1:5603
Mean terrain height [m] : 600

Automatic blunder detection : ON use default mode

Use all adjusted points in project file
as control (absolute mode) : OFF

Control parameter for block adjustment :
-----

Selfcalibration : OFF
GPS-Mode : OFF
Drift-Mode : OFF
INS-Mode : OFF
Earth's curvature correction : ON
Atmospheric correction : ON
Do not eliminate manual points : OFF
```

Standard deviations (a-priori) :

Ground control (planimetry) [m]

```
Set
  0 (=default)           : 0.050
  1                     : 0.100
```

Ground control (height) [m]

```
Set
  0 (=default)           : 0.100
  1                     : 0.150
```

Automatic image points [mm]

```
Set
  0 (=default)           : 0.004
```

Image points of ground control and manual measurements [mm] : 0.005

Used Cameras in block:

```
1 13001-78
  Distortion                : Table
```

Tie Point Generator

```
created 61 observations for photo 30_4077
created 80 observations for photo 30_4078
created 87 observations for photo 30_4079
created 90 observations for photo 30_4080
created 68 observations for photo 30_4081
created 47 observations for photo 30_4082
created 54 observations for photo 30_4083
created 49 observations for photo 30_4084
created 46 observations for photo 30_4085
created 42 observations for photo 30_4086
created 29 observations for photo 30_4087
created 31 observations for photo 30_4088
created 37 observations for photo 30_4089
created 43 observations for photo 30_4090
created 44 observations for photo 30_4091
created 54 observations for photo 30_4092
created 74 observations for photo 30_4093
created 81 observations for photo 30_4094
created 107 observations for photo 30_4095
created 109 observations for photo 30_4096
created 89 observations for photo 30_4097
created 89 observations for photo 30_4098
created 118 observations for photo 30_4099
created 137 observations for photo 30_4100
created 108 observations for photo 30_4101
created 103 observations for photo 31_5017
created 131 observations for photo 31_5018
created 119 observations for photo 31_5019
created 92 observations for photo 31_5020
created 41 observations for photo 31_5021
created 28 observations for photo 31_5022
created 19 observations for photo 31_5023
```

created	15	observations	for	photo	31_5024
created	26	observations	for	photo	31_5025
created	30	observations	for	photo	31_5026
created	30	observations	for	photo	31_5027
created	25	observations	for	photo	31_5028
created	26	observations	for	photo	31_5029
created	27	observations	for	photo	31_5030
created	25	observations	for	photo	31_5031
created	27	observations	for	photo	31_5032
created	76	observations	for	photo	31_5033
created	105	observations	for	photo	31_5034
created	114	observations	for	photo	31_5035
created	111	observations	for	photo	31_5036
created	115	observations	for	photo	31_5037
created	92	observations	for	photo	31_5038
created	107	observations	for	photo	31_5039
created	112	observations	for	photo	31_5040
created	122	observations	for	photo	31_5041
created	86	observations	for	photo	31_5042
created	36	observations	for	photo	31_5043
created	105	observations	for	photo	32_4102
created	111	observations	for	photo	32_4103
created	77	observations	for	photo	32_4104
created	68	observations	for	photo	32_4105
created	70	observations	for	photo	32_4106
created	100	observations	for	photo	32_4107
created	88	observations	for	photo	32_4108
created	72	observations	for	photo	32_4109
created	61	observations	for	photo	32_4110
created	61	observations	for	photo	32_4111
created	37	observations	for	photo	32_4112
created	37	observations	for	photo	32_4113
created	40	observations	for	photo	32_4114
created	44	observations	for	photo	32_4115
created	40	observations	for	photo	32_4116
created	54	observations	for	photo	32_4117
created	107	observations	for	photo	32_4118
created	112	observations	for	photo	32_4119
created	84	observations	for	photo	32_4120
created	71	observations	for	photo	32_4121
created	74	observations	for	photo	32_4122
created	81	observations	for	photo	32_4123
created	63	observations	for	photo	32_4124
created	43	observations	for	photo	32_4125
created	95	observations	for	photo	33_5001
created	71	observations	for	photo	33_5002
created	80	observations	for	photo	33_5003
created	94	observations	for	photo	33_5004
created	68	observations	for	photo	33_5005
created	52	observations	for	photo	33_5006
created	59	observations	for	photo	33_5007
created	56	observations	for	photo	33_5008
created	35	observations	for	photo	33_5009
created	43	observations	for	photo	33_5010
created	79	observations	for	photo	33_5011
created	105	observations	for	photo	33_5012
created	99	observations	for	photo	33_5013
created	53	observations	for	photo	33_5014
created	37	observations	for	photo	33_5015
created	23	observations	for	photo	33_5016
created	38	observations	for	photo	29_4053
created	55	observations	for	photo	29_4054
created	51	observations	for	photo	29_4055
created	47	observations	for	photo	29_4056
created	79	observations	for	photo	29_4057
created	84	observations	for	photo	29_4058
created	69	observations	for	photo	29_4059
created	63	observations	for	photo	29_4060
created	55	observations	for	photo	29_4061
created	42	observations	for	photo	29_4062
created	29	observations	for	photo	29_4063
created	42	observations	for	photo	29_4064
created	41	observations	for	photo	29_4065

created	45 observations for photo	29_4066
created	56 observations for photo	29_4067
created	65 observations for photo	29_4068
created	93 observations for photo	29_4069
created	105 observations for photo	29_4070
created	103 observations for photo	29_4071
created	104 observations for photo	29_4072
created	91 observations for photo	29_4073
created	88 observations for photo	29_4074
created	83 observations for photo	29_4075
created	68 observations for photo	29_4076

total of 7959 measurements in 116 photos are used for adjustment

sigma naught	7.4 micron (10:24:29)
sigma naught	7.9 micron (10:24:29)
sigma naught	6.7 micron (10:24:29)
sigma naught	6.6 micron (10:24:30)
sigma naught	6.5 micron (10:24:30)
sigma naught	6.5 micron (10:24:30)
sigma naught	7.1 micron (10:24:30)

found	854 points connecting	2 photos
found	695 points connecting	3 photos
found	332 points connecting	4 photos
found	309 points connecting	5 photos
found	182 points connecting	6 photos
found	18 points connecting	7 photos
found	7 points connecting	8 photos
found	2 points connecting	9 photos

number of observations	17151
number of unknowns	7896
redundancy	9255

RMS automatic points in photo	
x	5.0 micron
y	5.4 micron

RMS control points in photo	
x	6.8 micron
y	7.3 micron

RMS manual photo measurements with default standard deviation set	
x	0.142 [meter]
y	0.093 [meter]

RMS manual photo measurements with default standard deviation set	
z	0.190 [meter]

RMS manual photo measurements with standard deviation set 1	
x	0.076 [meter]
y	0.072 [meter]

RMS manual photo measurements with standard deviation set 1	
z	0.116 [meter]

standard deviations of exterior orientation parameters (px, py, pz in [meter] omega, phi, kappa)

photo ID	px	py	pz	omega	phi	kappa
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29_4053	0.098	0.092	0.065	7.4275	9.0365	4.4331
29_4054	0.093	0.072	0.056	7.0847	7.8576	3.5164
29_4055	0.090	0.071	0.052	7.1160	7.8042	3.2404
29_4056	0.061	0.073	0.048	6.3112	4.8867	2.6916
29_4057	0.065	0.069	0.045	5.7760	5.1393	2.5696
29_4058	0.072	0.066	0.045	5.2622	5.7472	2.4930
29_4059	0.078	0.076	0.048	5.4193	6.6207	2.7393
29_4060	0.079	0.070	0.052	5.6883	5.9886	2.6254
29_4061	0.077	0.074	0.054	6.2364	5.6666	2.7431
29_4062	0.084	0.088	0.054	6.9247	5.9447	2.8559
29_4063	0.094	0.086	0.057	6.6202	7.3287	3.1433
29_4064	0.088	0.083	0.054	6.4780	6.5049	2.6241
29_4065	0.080	0.082	0.051	6.5256	5.1609	2.6868
29_4066	0.078	0.082	0.053	6.2759	5.5624	2.5013
29_4067	0.080	0.079	0.048	6.0103	5.5333	2.6024
29_4068	0.075	0.063	0.045	4.6586	5.4633	2.2880
29_4069	0.061	0.064	0.045	4.8929	4.1958	1.8789
29_4070	0.060	0.060	0.044	4.7432	4.0675	1.9117
29_4071	0.058	0.055	0.043	4.4099	3.7359	1.7198
29_4072	0.057	0.054	0.043	4.2196	3.6729	1.7188
29_4073	0.061	0.054	0.044	4.2719	3.9776	1.8873
29_4074	0.065	0.056	0.045	4.4429	4.2798	1.9256
29_4075	0.071	0.062	0.051	4.9124	4.5774	2.2828
29_4076	0.089	0.082	0.064	5.6766	6.0758	3.2687
30_4077	0.075	0.085	0.067	6.8609	6.7641	3.8091
30_4078	0.067	0.066	0.049	6.1639	5.4643	2.7084
30_4079	0.058	0.054	0.040	5.1174	4.5064	2.0251
30_4080	0.059	0.054	0.040	5.4045	4.5148	1.8545
30_4081	0.060	0.049	0.037	4.8487	4.6850	1.7931
30_4082	0.089	0.050	0.036	4.7890	7.3280	2.0041
30_4083	0.106	0.056	0.041	6.2367	8.3534	2.0338
30_4084	0.075	0.067	0.039	6.5387	5.2810	2.0276
30_4085	0.097	0.094	0.047	9.5776	6.3115	2.3586
30_4086	0.091	0.072	0.043	6.7355	6.8671	2.2653
30_4087	0.091	0.081	0.044	8.0826	5.8487	2.4106
30_4088	0.086	0.092	0.044	8.5716	5.6331	2.2163
30_4089	0.104	0.077	0.046	6.7956	8.1048	2.4334
30_4090	0.102	0.079	0.046	7.4001	7.2590	2.5652
30_4091	0.078	0.071	0.041	6.0665	5.2759	1.9667
30_4092	0.073	0.068	0.040	5.8290	4.8396	1.8714
30_4093	0.063	0.057	0.037	4.8189	4.3973	1.6015
30_4094	0.062	0.055	0.037	4.7168	4.1068	1.4972
30_4095	0.051	0.050	0.035	4.0986	3.5245	1.3666
30_4096	0.052	0.050	0.034	3.9732	3.6164	1.3638
30_4097	0.053	0.049	0.034	3.7888	3.7234	1.3497
30_4098	0.054	0.056	0.035	4.5346	3.6153	1.4318
30_4099	0.051	0.050	0.035	3.9495	3.4029	1.4706
30_4100	0.064	0.053	0.040	4.1994	4.4740	1.7564
30_4101	0.071	0.064	0.051	4.5617	5.2872	2.3310
31_5017	0.076	0.070	0.054	5.5169	5.5442	2.6898
31_5018	0.062	0.054	0.038	4.2421	4.5266	1.8712
31_5019	0.058	0.049	0.034	4.0861	4.0996	1.5967
31_5020	0.057	0.046	0.034	3.8109	4.0373	1.6205
31_5021	0.091	0.063	0.042	5.1608	6.8511	2.1486
31_5022	0.081	0.089	0.048	6.7092	7.2608	2.7212
31_5023	0.081	0.074	0.058	7.1737	5.3218	2.6507
31_5024	0.112	0.087	0.061	8.0414	8.2425	3.7603
31_5025	0.084	0.096	0.052	7.1289	7.1513	3.0894
31_5026	0.083	0.091	0.054	7.7844	5.5074	2.7551
31_5027	0.080	0.072	0.048	6.3771	5.4906	2.5226
31_5028	0.086	0.092	0.052	7.6941	6.3100	2.7434
31_5029	0.085	0.085	0.046	6.4160	6.6408	2.3180
31_5030	0.101	0.096	0.057	8.6529	6.7132	2.6437
31_5031	0.088	0.087	0.048	6.8552	6.5690	2.2906
31_5032	0.071	0.078	0.042	5.6100	5.5651	2.1529
31_5033	0.053	0.062	0.036	5.0008	3.6788	1.4617
31_5034	0.062	0.052	0.035	4.3558	4.5033	1.3568
31_5035	0.053	0.047	0.032	3.8872	3.7739	1.2282
31_5036	0.049	0.046	0.032	3.7210	3.5313	1.2076
31_5037	0.048	0.042	0.032	3.2898	3.4282	1.2160
31_5038	0.049	0.051	0.034	3.8206	3.6248	1.4133
31_5039	0.051	0.051	0.037	3.6936	3.9303	1.4576

31_5040	0.060	0.055	0.039	4.1422	4.5680	1.6628
31_5041	0.060	0.059	0.045	4.6384	4.0946	1.8811
31_5042	0.070	0.071	0.054	5.2084	5.0152	2.5159
31_5043	0.099	0.100	0.082	7.2736	7.2512	3.9652
32_4102	0.078	0.081	0.054	5.1450	4.9794	2.5460
32_4103	0.064	0.070	0.045	4.7938	3.9871	2.0943
32_4104	0.064	0.070	0.046	5.0486	4.0884	1.9709
32_4105	0.069	0.072	0.047	5.3012	4.6985	2.1309
32_4106	0.068	0.074	0.051	5.6776	4.8088	2.0651
32_4107	0.065	0.064	0.048	4.9374	4.4271	1.9911
32_4108	0.071	0.061	0.051	4.9630	5.3512	2.1080
32_4109	0.065	0.064	0.046	4.9333	4.7174	2.0382
32_4110	0.072	0.078	0.049	5.5949	6.2270	2.6940
32_4111	0.070	0.069	0.044	4.8027	5.9578	2.3738
32_4112	0.072	0.081	0.046	6.2122	6.0143	2.5582
32_4113	0.069	0.088	0.048	6.8296	5.4935	2.4503
32_4114	0.086	0.091	0.051	7.1174	7.0483	2.3936
32_4115	0.079	0.069	0.045	5.2216	6.2289	2.0321
32_4116	0.083	0.060	0.048	5.1702	5.8360	1.9734
32_4117	0.070	0.057	0.043	4.1148	5.1260	1.8066
32_4118	0.055	0.056	0.038	3.9208	4.0674	1.5756
32_4119	0.054	0.050	0.035	3.6212	3.6838	1.4371
32_4120	0.055	0.057	0.035	3.8454	3.7420	1.4401
32_4121	0.069	0.062	0.044	4.6079	4.0676	1.7264
32_4122	0.071	0.064	0.047	4.7308	4.0841	1.8466
32_4123	0.078	0.070	0.056	5.1275	4.2041	2.2089
32_4124	0.080	0.083	0.062	5.5250	5.0114	2.7863
32_4125	0.084	0.115	0.074	6.6031	6.2017	3.9969
33_5001	0.072	0.075	0.054	6.1634	4.4425	2.5940
33_5002	0.076	0.071	0.052	6.2699	4.7449	2.3186
33_5003	0.064	0.068	0.050	5.6961	4.2280	2.3866
33_5004	0.064	0.065	0.047	5.7613	4.4813	2.2402
33_5005	0.065	0.064	0.045	5.7356	4.4990	2.2094
33_5006	0.075	0.066	0.049	6.0663	5.1556	2.4268
33_5007	0.077	0.074	0.050	6.7071	5.4232	2.6300
33_5008	0.087	0.080	0.052	6.9677	6.5772	2.7481
33_5009	0.097	0.074	0.054	6.2976	7.8547	2.7258
33_5010	0.078	0.066	0.046	4.7628	6.5819	2.6600
33_5011	0.067	0.059	0.047	4.4216	5.5960	2.0742
33_5012	0.066	0.061	0.046	4.6624	5.3827	2.1715
33_5013	0.064	0.061	0.049	4.9096	4.5769	2.1837
33_5014	0.076	0.073	0.051	5.2015	5.8338	2.5949
33_5015	0.078	0.088	0.058	6.3639	5.7555	3.1320
33_5016	0.085	0.105	0.072	7.4897	6.3621	3.8706

mean standard deviations of rotations

omega	5.6 [grd/1000]
phi	5.3 [grd/1000]
kappa	2.3 [grd/1000]

max standard deviations of rotations

omega	9.6 [grd/1000] at photo	30_4085
phi	9.0 [grd/1000] at photo	29_4053
kappa	4.4 [grd/1000] at photo	29_4053

mean standard deviations of translations

x	0.073 [meter]
y	0.069 [meter]
z	0.047 [meter]

max standard deviations of translations

x	0.112 [meter] at photo	31_5024
y	0.115 [meter] at photo	32_4125
z	0.082 [meter] at photo	31_5043

residuals horizontal control points in [meter]

control point ID	rx	ry
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1001	0.040	-0.107
1002	0.066	-0.066
1003	0.273	0.010
1004	0.222	-0.038
1005	0.238	0.025
1006	0.085	0.103
1007	0.073	0.035
1008	0.048	0.049
1009	0.233	-0.029
1010	0.010	-0.034
1011	0.008	0.031
1012	-0.048	-0.022
1013	0.002	-0.127
1014	-0.046	-0.096
1015	-0.006	-0.060
1016	-0.050	-0.043
1017	-0.022	0.044
1018	-0.085	0.058
1019	-0.013	-0.095
1020	0.053	0.099
1021	-0.025	0.051
1022	-0.026	-0.078
1023	-0.098	0.085
1024	0.000	0.090
1025	-0.075	0.077
1026	-0.323	-0.269
1027	-0.066	0.080
1028	0.126	0.121
1029	-0.004	0.070
1030	0.110	0.157
1031	0.081	-0.004
1032	0.070	-0.042
1033	0.015	0.046
1034	-0.046	0.016
1035	-0.190	0.002
1036	0.015	-0.040
1037	0.096	0.061
1038	0.047	0.031
1039	0.037	-0.003
1040	0.112	-0.017
1041	0.082	0.002
1042	0.037	-0.071
1043	0.013	-0.043
1044	-0.027	0.128
1045	-0.006	0.072
1046	-0.005	-0.082
1047	0.084	0.083
1048	-0.009	0.054
1049	0.056	0.057
1050	-0.014	0.110
1051	-0.084	0.081
1052	0.101	0.004
1053	-0.021	0.030
1054	0.050	0.003
1055	0.002	0.021
1056	-0.030	-0.010
1057	-0.060	-0.109
1058	-0.017	-0.014
1059	0.027	0.020
1060	-0.074	0.012
1061	-0.025	0.001
1062	-0.064	0.018
1063	-0.050	-0.020
1064	-0.052	-0.017
1065	-0.002	0.027
1066	-0.064	0.104
1067	0.186	0.014
1068	-0.068	0.040
1069	-0.049	0.061
1070	0.066	0.004
1071	0.082	-0.082
1072	0.046	-0.001

1073	0.011	0.034
1074	0.073	0.016
1075	-0.022	-0.075
1076	-0.002	0.015
1077	0.021	-0.045
1078	-0.050	-0.030
1079	-0.027	0.072
1080	-0.066	0.004
1081	-0.042	0.009
1082	-0.030	0.013
1083	-0.051	0.081
1084	-0.072	0.071
1085	-0.034	0.044
1086	-0.056	0.023
1087	-0.009	0.052
1088	-0.031	0.048
1089	-0.018	-0.018
1090	0.051	0.011
1091	0.091	0.125
1092	0.191	0.081
1093	0.009	0.034
1094	0.048	0.052
1095	0.094	0.085
1096	0.051	-0.008
1097	-0.028	0.007
1098	-0.066	0.004
1099	-0.034	0.003
1100	0.030	-0.063
1101	-0.026	-0.009
1102	-0.020	-0.016
1103	-0.057	0.064
1104	0.030	-0.023
1105	-0.058	0.082
1106	-0.038	0.022
1107	-0.091	0.018
1108	-0.048	0.016
1109	0.016	0.034
1112	0.005	0.015
1113	0.002	-0.007
1114	0.030	0.021
1115	0.032	0.061
1116	-0.082	-0.007
1117	0.010	-0.027
1118	-0.061	-0.006
1119	-0.043	-0.020
1120	-0.018	-0.047
1121	-0.075	-0.049
1122	0.033	0.009
1123	-0.034	0.016
1124	-0.036	0.023
1125	-0.002	0.010
1126	0.029	-0.012
1127	0.035	0.016
1128	-0.055	0.040
1129	-0.038	0.000
1130	0.020	0.021
1131	-0.051	0.009
1132	-0.020	0.127
1133	-0.144	-0.002
1134	-0.081	-0.022
1135	0.012	0.056
1136	0.027	-0.025
1137	-0.038	0.041
1138	0.010	-0.052
1139	-0.001	-0.055
1140	-0.091	0.059
1141	0.045	0.042
1142	-0.036	-0.018
1143	-0.102	0.043
1144	-0.010	0.041
1145	0.059	-0.017
1146	0.063	0.010
1147	0.065	0.141

1148	0.162	0.080
1149	0.053	-0.023
1150	-0.010	0.015
1151	0.007	0.019
1152	-0.024	0.047
1153	-0.010	-0.021
1154	0.079	0.105
1155	-0.005	0.028
1156	-0.020	-0.003
1157	0.014	0.007
1158	0.013	0.007
1159	0.012	-0.084
1160	0.042	0.004
1161	0.009	0.001
1162	0.018	-0.010
1163	-0.105	0.027
1164	-0.066	-0.053
1165	0.003	-0.038
1166	-0.063	-0.048
1167	-0.082	-0.061
1168	-0.007	0.040
1169	-0.058	-0.051
1170	-0.063	0.067
1171	0.008	-0.042
1172	-0.121	-0.093
1174	-0.108	0.035
1175	-0.024	0.068
1176	-0.066	0.047
1177	0.002	0.026
1178	0.054	-0.011
1179	-0.028	0.073
1180	0.017	0.219
1181	-0.246	0.065
1182	0.150	0.061
1183	0.061	0.004
1184	-0.020	0.101
1185	0.104	-0.004
1186	-0.026	0.059
1187	0.007	0.014
1188	0.091	0.005
1189	0.071	-0.069
1190	0.005	-0.001
1191	-0.013	-0.011
1192	0.042	0.007
1193	0.087	0.043
1194	0.059	0.060
1196	-0.065	-0.000
1197	0.083	0.029
1198	-0.276	-0.050
1199	0.010	0.029
1201	0.116	0.176
1202	-0.039	0.018
1203	-0.250	0.203
1208	-0.078	-0.039
1211	-0.005	0.061
1212	0.018	0.010
1215	-0.061	-0.061
1216	-0.072	0.035
1220	-0.027	0.040
1221	-0.028	-0.056
1222	-0.058	0.021
1223	-0.003	-0.015
1224	0.037	-0.028
1225	0.005	0.000
1226	-0.019	-0.003
1227	-0.003	0.007
1228	0.008	-0.083
1229	-0.018	-0.037
1230	0.017	-0.013
1231	0.039	-0.109
1232	0.005	0.028
1233	-0.024	0.050
1234	0.015	0.033

1235	0.063	-0.023
1236	0.026	0.100
1237	0.117	0.058
1238	0.051	0.098
1239	0.024	0.014
1240	-0.067	-0.035
1241	-0.046	0.018
1242	0.012	-0.006
1244	-0.008	0.002
1245	-0.030	0.054
1246	-0.028	-0.031
1247	-0.001	0.058
1248	-0.109	0.026
1249	-0.214	0.006
1250	-0.122	-0.036
1251	0.042	-0.014
1252	0.011	0.085
1253	-0.013	-0.082
1254	-0.028	-0.043
1255	-0.145	-0.048
1256	0.009	-0.053
1257	-0.043	-0.060
1258	-0.062	-0.046
1259	-0.053	0.005
1260	-0.135	-0.090
1261	-0.064	-0.048
1262	-0.053	-0.109
1263	-0.067	-0.036
1264	0.033	0.029
1265	-0.013	-0.040
1266	-0.007	-0.049
1267	0.058	0.006
1269	0.057	-0.043
1270	0.057	0.032
1271	-0.067	-0.012
1272	-0.019	-0.036
1275	-0.038	0.035
1276	0.045	-0.007
1277	0.039	0.000
1278	0.113	0.057
1281	0.017	0.040
1282	-0.051	-0.027
1283	0.005	-0.170
1284	0.127	0.083
1285	-0.052	0.066
1286	0.016	-0.019
1287	0.108	0.019
1288	0.011	0.121
1289	0.154	-0.072
1290	0.196	-0.086
1291	0.084	0.030
1292	0.027	-0.089
1293	0.093	0.018
1294	0.072	0.007
1296	-0.022	-0.112
1297	0.058	-0.104
1298	0.014	-0.010
1299	0.019	-0.112
1300	-0.059	-0.096
1301	-0.020	-0.014
1302	-0.016	-0.026
1304	-0.110	-0.140
1305	-0.010	0.022
1306	-0.039	-0.015
1307	0.080	-0.016
1308	-0.093	-0.018
1309	-0.032	-0.063
1310	-0.016	-0.001
1312	-0.023	-0.031
1313	0.075	-0.054
1314	-0.023	-0.061
1315	-0.037	-0.086
1316	-0.010	-0.033

1317	0.030	0.001
1318	0.071	0.013
1319	-0.076	0.052
1320	0.066	0.041
1321	0.122	0.120
1323	0.054	-0.063
1324	-0.013	-0.034
1325	0.016	-0.054
1326	-0.077	0.023
1327	-0.112	-0.177
1328	-0.035	-0.155
1329	-0.069	-0.115
1330	-0.077	-0.019
1331	-0.014	-0.102
1332	-0.014	-0.143
1333	0.084	-0.018
1334	0.068	-0.114
1335	0.007	-0.015
1336	-0.061	-0.003
1337	-0.006	0.031
1338	-0.088	0.092
1340	0.158	0.535
1341	-0.306	-0.060
1342	-0.037	0.008
1343	-0.069	-0.004
1344	-0.087	0.028
1345	-0.048	0.013
1346	0.034	-0.052
1347	0.056	-0.096
1348	0.035	0.016
1349	0.001	-0.007
1350	-0.117	-0.040
1351	0.020	-0.030
1352	0.013	0.072
1353	-0.000	0.051
1354	-0.017	0.003
1355	0.004	0.058
1356	-0.002	0.046
1357	0.014	0.020
1358	0.070	0.024
1359	0.014	-0.086
1360	0.089	-0.049
1361	-0.016	-0.052
1362	0.020	-0.070
1363	-0.007	-0.023
1364	-0.007	-0.030
1365	-0.032	-0.073
qu20	0.021	0.046
qu23	0.008	-0.165
qu26	-0.075	-0.182
qu27	-0.043	0.007
qu36	0.130	-0.172
v3001	0.091	-0.077
v3019	0.110	-0.055
v3020	0.070	-0.058
v3021	-0.021	0.013
v3023	0.110	-0.078
v3035	0.241	0.250
v3043	0.022	0.088
v3060	-0.067	0.129
v3065	0.034	-0.058
v3077	0.025	-0.187
v3087	0.077	0.006
v3088	-0.013	-0.039
v3091	0.130	0.078
v3094	0.073	0.006
v3095	0.048	0.064
v3096	0.089	0.045
v3124	0.079	-0.027
v3149	-0.018	0.104
v3151	0.089	-0.036
v3152	0.041	-0.151
v3154	0.019	-0.047

v3185	0.085	0.026
v3242	-0.081	0.044
v3243	-0.029	0.022
v3250	0.021	0.191
v3255	0.049	-0.160
v3338	0.061	-0.162
v3348	-0.007	-0.123
v3405	-0.203	0.234
v3410	0.034	0.092
v3411	-0.008	0.119
v6001	-0.061	-0.020
v6006	0.015	0.098
v6601	0.034	-0.079
v6602	0.015	-0.070
v6606	-0.088	0.050
v6607	-0.007	0.055
v6609	-0.027	-0.070
v6610	-0.083	0.065
v6611	-0.109	0.005
v6612	0.046	-0.028
v6613	-0.058	-0.029
v6614	0.179	-0.068
1111_517_0	-0.131	0.083
8111_411_1	0.464	0.016
8111_518_0	0.011	0.035
8111_521_0	-0.154	-0.059
8111_528_0	-0.130	0.117
8111_555_0	-0.042	-0.098
8111_661_0	-0.133	0.089
2004009000401	-0.011	0.033
2004009000501	0.009	-0.032
2004009000601	-0.013	-0.031
2004009000701	0.061	-0.014

residuals vertical control points in [meter]

control point ID	rz
1001	0.116
1002	0.007
1003	0.297
1004	0.129
1005	0.056
1006	0.045
1007	-0.159
1008	-0.068
1009	0.025
1010	-0.194
1011	-0.193
1012	0.052
1013	-0.052
1014	0.021
1015	-0.141
1016	0.042
1017	0.039
1018	0.076
1019	-0.103
1020	0.004
1021	0.009
1022	-0.151
1023	0.173
1024	0.062
1025	0.090
1026	-0.028
1027	0.049
1028	0.008
1029	-0.092
1030	0.149
1031	0.094

1032	-0.046
1033	-0.133
1034	0.214
1035	0.086
1036	0.111
1037	0.105
1038	-0.076
1039	0.172
1040	0.146
1041	-0.081
1042	-0.077
1043	0.103
1044	0.077
1045	0.051
1046	-0.006
1047	-0.128
1048	-0.174
1049	0.035
1050	0.065
1051	0.053
1052	0.016
1053	0.013
1054	-0.014
1055	-0.004
1056	0.053
1057	0.123
1058	0.003
1059	0.017
1060	-0.012
1061	-0.020
1062	0.094
1063	0.012
1064	0.012
1065	0.083
1066	0.246
1067	0.013
1068	-0.084
1069	-0.186
1070	-0.083
1071	-0.177
1072	-0.157
1073	-0.164
1074	-0.102
1075	-0.220
1076	-0.131
1077	-0.041
1078	-0.096
1079	-0.206
1080	-0.034
1081	-0.081
1082	-0.006
1083	0.041
1084	-0.021
1085	0.037
1086	-0.236
1087	-0.027
1088	-0.100
1089	-0.100
1090	0.091
1091	0.201
1092	0.031
1093	-0.023
1094	0.011
1095	0.041
1096	-0.028
1097	-0.038
1098	0.176
1099	-0.081
1100	-0.122
1101	-0.051
1102	-0.056
1103	0.055
1104	0.174

1105	-0.170
1106	-0.160
1107	-0.009
1108	0.075
1109	0.067
1112	0.034
1113	0.107
1114	0.071
1115	0.016
1116	0.154
1117	-0.015
1118	0.007
1119	-0.033
1120	0.026
1121	0.073
1122	-0.002
1123	0.024
1124	-0.077
1125	-0.035
1126	-0.071
1127	0.038
1128	0.187
1129	0.116
1130	-0.095
1131	0.240
1132	0.097
1133	0.218
1134	0.212
1135	-0.092
1136	-0.106
1137	0.035
1138	0.030
1139	0.051
1140	-0.070
1141	-0.059
1142	-0.068
1143	-0.049
1144	-0.219
1145	0.124
1146	-0.011
1147	0.019
1148	0.162
1149	0.191
1150	0.194
1151	0.152
1152	0.027
1153	0.028
1154	-0.102
1155	0.007
1156	-0.054
1157	-0.053
1158	-0.181
1159	-0.049
1160	0.015
1161	-0.199
1162	-0.076
1163	-0.011
1164	0.013
1165	-0.208
1166	-0.182
1167	-0.062
1168	-0.075
1169	-0.057
1170	-0.083
1171	0.037
1172	-0.140
1174	-0.001
1175	-0.136
1176	-0.051
1177	0.133
1178	0.017
1179	0.100
1180	-0.007

1181	0.098
1182	-0.397
1183	-0.095
1184	-0.113
1185	-0.029
1186	-0.022
1187	-0.151
1188	-0.105
1189	0.065
1190	0.035
1191	0.078
1192	-0.250
1193	0.043
1194	-0.032
1196	-0.053
1197	0.072
1198	0.318
1199	-0.048
1201	0.142
1202	-0.042
1203	-0.002
1208	0.137
1211	0.028
1212	-0.116
1215	-0.084
1216	0.014
1220	0.018
1221	-0.001
1222	-0.023
1223	-0.057
1224	-0.069
1225	-0.049
1226	-0.054
1227	-0.009
1228	-0.176
1229	-0.165
1230	-0.008
1231	-0.190
1232	0.018
1233	0.092
1234	-0.002
1235	-0.201
1236	0.298
1237	-0.084
1238	0.007
1239	-0.075
1240	-0.094
1241	-0.061
1242	-0.027
1244	0.040
1245	0.003
1246	0.330
1247	0.000
1248	0.295
1249	0.159
1250	0.066
1251	-0.060
1252	-0.120
1253	-0.097
1254	0.007
1255	0.089
1256	0.025
1257	0.172
1258	-0.003
1259	-0.090
1260	0.171
1261	-0.057
1262	-0.012
1263	-0.078
1264	-0.011
1265	0.040
1266	0.059
1267	0.013

1269	0.026
1270	0.006
1271	-0.025
1272	-0.098
1275	-0.049
1276	0.060
1277	-0.060
1278	0.079
1281	0.068
1282	-0.021
1283	-0.029
1284	-0.123
1285	0.043
1286	-0.035
1287	0.035
1288	-0.075
1289	-0.188
1290	-0.250
1291	0.042
1292	0.025
1293	0.011
1294	-0.010
1296	-0.182
1297	-0.152
1298	0.067
1299	-0.034
1300	-0.003
1301	0.078
1302	0.069
1304	0.109
1305	0.166
1306	0.165
1307	0.034
1308	0.004
1309	0.070
1310	-0.013
1312	0.051
1313	0.008
1314	-0.087
1315	0.079
1316	-0.159
1317	-0.015
1318	-0.006
1319	-0.190
1320	0.015
1321	-0.133
1323	0.073
1324	-0.042
1325	-0.034
1326	-0.001
1327	0.135
1328	0.017
1329	0.212
1330	0.065
1331	-0.002
1332	0.184
1333	0.103
1334	0.057
1335	-0.126
1336	0.095
1337	0.322
1338	0.005
1340	0.016
1341	0.018
1342	0.169
1343	-0.009
1344	-0.001
1345	-0.048
1346	0.124
1347	-0.041
1348	0.009
1349	0.101
1350	0.241

1351	0.096
1352	-0.079
1353	0.065
1354	0.107
1355	-0.170
1356	-0.099
1357	0.041
1358	-0.009
1359	-0.087
1360	0.029
1361	0.007
1362	0.151
1363	0.023
1364	-0.057
1365	-0.013
qu11	-0.318
qu20	0.275
qu23	0.014
qu26	0.308
qu27	-0.109
qu36	-0.266
v1092	-0.005
v3001	-0.115
v3019	0.209
v3020	-0.139
v3021	0.044
v3023	0.161
v3035	-0.082
v3043	0.045
v3060	-0.073
v3065	-0.357
v3077	-0.220
v3087	0.008
v3088	0.293
v3091	0.274
v3094	0.007
v3095	0.018
v3096	0.056
v3124	-0.131
v3149	-0.132
v3151	-0.125
v3152	-0.040
v3154	0.140
v3185	-0.043
v3242	-0.206
v3243	-0.154
v3250	-0.060
v3255	-0.075
v3296	-0.182
v3338	-0.001
v3348	-0.095
v3405	-0.187
v3410	-0.058
v3411	-0.027
v6001	0.442
v6006	0.068
v6601	0.165
v6602	-0.121
v6606	-0.284
v6607	-0.120
v6609	-0.040
v6610	0.022
v6611	0.032
v6612	-0.071
v6613	-0.269
v6614	0.016
1111_414_0	0.361
1111_432_0	0.081
1111_436_0	0.094
1111_441_1	0.204
1111_517_0	0.348
1111_521_0	0.038
1111_525_0	-0.018

1111_528_0	-0.108
1111_531_0	-0.237
1111_540_0	-0.278
1111_540_1	-0.162
1111_556_0	0.055
1111_581_0	-0.267
1111_629_0	0.014
1111_634_0	0.207
1111_642_0	0.106
1111_648_0	-0.221
1111_651_0	-0.086
1111_751_0	-0.237
1111_752_0	-0.062
1111_755_0	0.248
1111_759_0	-0.339
1111_763_0	-0.176
1111_764_0	0.049
1111_765_0	0.257
8111_411_1	0.376
8111_511_1	0.268
8111_518_0	0.133
8111_519_0	-0.042
8111_521_0	-0.144
8111_527_0	-0.111
8111_528_0	0.139
8111_530_0	-0.206
8111_532_2	-0.188
8111_536_0	0.031
8111_552_0	-0.042
8111_553_0	0.315
8111_555_0	0.028
8111_559_0	0.030
8111_563_1	-0.025
8111_660_0	-0.038
8111_661_0	0.149
9111_640_0	-0.246
9111_747_0	0.067
9111_750_0	-0.072
9111_757_0	-0.153
2004009000401	0.074
2004009000501	0.215
2004009000601	0.043
2004009000701	0.139

mean standard deviations of terrain points

x	0.039 [meter]
y	0.037 [meter]
z	0.080 [meter]

max standard deviations of terrain points

x	0.126 [meter] at point	v6006
y	0.105 [meter] at point	50000616
z	0.186 [meter] at point	v6006

exterior orientation parameters (px, py, pz in [meter] omega,phi,kappa in [grd])

rotations from terrain to photo (rotated axes)

	photo ID	px	py	pz	omega	phi	kappa
	29_4053	2687473.885	1231505.224	1387.395	-0.2050	0.1777	131.4190
	29_4054	2687303.117	1231819.776	1388.064	-0.7564	0.5600	130.6744
	29_4055	2687096.562	1232206.677	1389.302	-0.2367	0.0724	130.0028
	29_4056	2686904.249	1232571.289	1387.382	-1.1341	1.0975	130.7584
	29_4057	2686702.163	1232963.739	1388.380	-0.4236	-0.1094	129.4124
	29_4058	2686502.038	1233353.990	1389.503	0.1448	-1.7275	129.6807
	29_4059	2686279.106	1233770.911	1391.215	1.0164	-1.6215	131.3095

29_4060	2686051.421	1234171.454	1391.709	0.6347	-1.1585	132.4774
29_4061	2685836.110	1234549.341	1392.065	-1.8093	2.5524	130.8690
29_4062	2685637.217	1234922.115	1391.278	-0.2793	1.6260	129.1664
29_4063	2685446.497	1235295.071	1393.404	0.5376	0.0548	130.4968
29_4064	2685248.081	1235672.444	1393.464	0.7653	-1.9400	130.8607
29_4065	2685044.313	1236048.622	1398.645	0.2343	1.1678	130.3855
29_4066	2684846.661	1236421.875	1395.739	-0.7783	0.9291	130.0273
29_4067	2684637.577	1236821.757	1388.728	-1.3871	1.4850	129.9566
29_4068	2684400.737	1237283.683	1388.036	0.3321	0.0412	130.1901
29_4069	2684165.390	1237727.204	1389.485	0.1894	-0.1213	130.8765
29_4070	2683915.573	1238163.556	1383.312	-0.4221	-0.8721	130.4720
29_4071	2683662.972	1238590.380	1381.476	0.2018	-1.4733	131.6483
29_4072	2683405.303	1239013.007	1378.416	-1.8577	1.5185	131.7479
29_4073	2683150.669	1239453.946	1371.600	-0.6206	-0.4597	131.2170
29_4074	2682916.270	1239872.208	1371.073	-1.3140	1.0867	130.8754
29_4075	2682671.467	1240310.565	1368.739	0.2579	-1.3892	130.9387
29_4076	2682438.054	1240717.781	1370.939	0.1922	-0.5067	132.4244
30_4077	2687310.164	1230427.198	1336.679	1.1726	-2.0639	134.6025
30_4078	2687109.029	1230771.263	1336.104	-0.5115	1.8685	132.8560
30_4079	2686894.546	1231148.049	1337.132	-0.4943	1.3448	131.7325
30_4080	2686695.137	1231512.677	1333.264	-1.4458	1.7627	131.5646
30_4081	2686514.396	1231855.256	1331.790	0.1618	-0.7928	131.6789
30_4082	2686295.546	1232255.347	1331.644	1.4490	-0.2411	132.3966
30_4083	2686077.433	1232639.478	1336.093	1.0601	0.0349	132.5710
30_4084	2685871.339	1233000.356	1342.343	0.5257	-0.5773	131.6607
30_4085	2685655.352	1233391.060	1348.260	0.3458	0.8225	131.8776
30_4086	2685431.473	1233807.393	1355.742	0.5647	0.4202	131.8965
30_4087	2685216.444	1234232.902	1360.941	-1.8943	2.5369	130.6437
30_4088	2685014.993	1234659.454	1360.889	0.9532	1.5585	131.0481
30_4089	2684806.148	1235104.843	1366.767	0.6246	1.0852	131.0680
30_4090	2684611.394	1235532.185	1375.352	-0.8886	0.6497	129.8437
30_4091	2684414.388	1235969.130	1386.272	0.1081	0.3475	130.6803
30_4092	2684230.544	1236363.707	1391.794	0.6944	-1.3191	130.4084
30_4093	2683983.275	1236853.297	1381.183	0.2335	-1.6207	131.1586
30_4094	2683747.886	1237284.210	1379.860	1.8889	-0.7229	133.3234
30_4095	2683475.728	1237752.939	1382.944	-0.4261	1.2620	130.3542
30_4096	2683239.233	1238166.722	1379.799	0.7078	-2.8022	131.9250
30_4097	2682960.511	1238623.979	1372.437	-1.0837	1.4829	132.2813
30_4098	2682703.358	1239057.078	1367.227	0.0782	-0.6653	130.7745
30_4099	2682423.821	1239518.546	1368.451	0.2131	-0.9017	131.6488
30_4100	2682159.892	1239943.718	1364.800	0.0106	-0.7752	132.3551
30_4101	2681910.998	1240344.514	1362.986	0.0039	2.1086	131.4591
31_5017	2686717.026	1230225.015	1439.820	-0.3613	1.1331	131.5575
31_5018	2686468.686	1230684.965	1443.045	-2.5501	3.1236	131.7338
31_5019	2686255.404	1231096.246	1438.192	0.0830	-0.7010	130.9603
31_5020	2686031.103	1231510.195	1435.403	0.5258	0.0486	132.3917
31_5021	2685814.195	1231898.686	1437.545	0.3282	0.5260	131.5679
31_5022	2685600.192	1232282.257	1436.638	0.2775	-0.1592	131.0733
31_5023	2685399.268	1232647.326	1435.209	-0.6777	0.6283	132.7826
31_5024	2685220.296	1232980.494	1432.384	-0.9047	2.1477	130.7771
31_5025	2685043.769	1233330.124	1433.692	-0.2189	1.1331	130.7756
31_5026	2684873.934	1233674.165	1438.897	0.6208	-1.4024	130.7765
31_5027	2684679.160	1234060.090	1440.510	0.1480	-0.3557	130.2328
31_5028	2684482.270	1234447.698	1445.683	-0.4073	-0.2371	130.4002
31_5029	2684286.270	1234826.852	1463.906	0.9287	0.8925	130.4993
31_5030	2684064.062	1235268.028	1465.298	-2.9159	0.5538	130.9987
31_5031	2683859.961	1235684.179	1464.417	-5.0290	2.4726	131.7471
31_5032	2683650.557	1236129.791	1440.373	-0.1731	-2.2207	129.4701
31_5033	2683443.133	1236532.677	1430.900	1.3127	-0.1911	131.0498
31_5034	2683189.231	1236984.654	1419.939	-1.2785	0.3937	132.0423
31_5035	2682958.289	1237391.545	1413.749	-0.2733	0.5681	131.6353
31_5036	2682718.960	1237816.094	1396.933	-1.1571	0.2559	132.3959
31_5037	2682495.977	1238204.167	1393.360	2.8748	0.9276	132.1590
31_5038	2682277.412	1238581.972	1398.884	-1.7205	0.6711	132.0146
31_5039	2682061.182	1238968.909	1391.324	1.1599	0.4341	131.8329
31_5040	2681872.853	1239310.472	1394.450	1.0686	1.6015	131.0655
31_5041	2681659.249	1239693.259	1395.056	1.4791	-0.9042	132.5760
31_5042	2681440.254	1240066.940	1398.014	-0.6063	1.2270	132.6731
31_5043	2681223.660	1240427.363	1406.139	0.5521	0.7081	133.3532
32_4102	2686001.682	1230294.017	1594.736	2.2732	-4.3254	131.3646
32_4103	2685731.735	1230788.855	1592.323	0.2117	-0.9322	131.1564
32_4104	2685491.104	1231215.890	1589.962	0.8013	-1.4700	131.8161
32_4105	2685233.585	1231669.284	1586.742	-0.3401	0.0630	130.8157

32_4106	2685028.252	1232036.508	1584.683	0.2042	-0.4047	131.0855
32_4107	2684822.825	1232396.987	1584.978	-0.7263	1.2382	130.5933
32_4108	2684601.024	1232790.689	1585.087	-0.2204	0.3532	131.1118
32_4109	2684391.704	1233162.396	1585.326	0.4356	-0.3003	130.8907
32_4110	2684181.232	1233536.644	1586.497	-0.1857	1.1635	130.8204
32_4111	2683971.210	1233916.463	1584.740	0.0214	-0.1769	130.5419
32_4112	2683768.739	1234278.973	1582.022	0.6072	0.0666	131.0076
32_4113	2683571.784	1234628.127	1586.481	-0.4045	1.1132	131.1682
32_4114	2683364.169	1235003.812	1584.401	-1.1895	1.5098	130.0251
32_4115	2683162.673	1235384.139	1580.046	0.0231	-0.6579	130.7536
32_4116	2682958.888	1235774.531	1581.133	2.4545	-1.4147	129.6617
32_4117	2682767.337	1236140.380	1587.422	2.6663	-1.9903	130.1913
32_4118	2682545.384	1236552.330	1591.645	-0.0400	0.7151	131.0972
32_4119	2682308.379	1236986.077	1594.452	0.3974	-0.6464	130.5785
32_4120	2682059.529	1237423.310	1602.914	-1.1358	-0.0398	130.2556
32_4121	2681805.351	1237866.378	1611.154	0.8787	0.2299	131.8618
32_4122	2681555.151	1238326.376	1613.758	-1.2300	-1.2996	130.8451
32_4123	2681289.421	1238784.624	1608.687	0.4451	-1.9062	132.4258
32_4124	2681025.030	1239224.214	1596.677	-1.1327	-0.0814	131.2190
32_4125	2680796.688	1239623.146	1587.394	-1.3059	0.3391	130.5167
33_5001	2684209.421	1232170.588	1567.138	2.8830	-3.7628	131.6547
33_5002	2683957.748	1232580.198	1562.609	-0.5426	0.7217	132.0802
33_5003	2683691.109	1233007.941	1564.511	0.2825	0.3319	132.0161
33_5004	2683425.298	1233436.140	1562.760	-1.1825	1.4619	131.2401
33_5005	2683212.116	1233798.096	1559.079	0.4890	1.8616	132.7368
33_5006	2682995.818	1234179.141	1570.493	-1.1344	1.5332	131.2792
33_5007	2682788.797	1234559.417	1565.888	-1.9649	3.0955	130.2001
33_5008	2682580.128	1234977.085	1564.279	1.0751	-1.1326	129.0992
33_5009	2682371.138	1235392.821	1576.214	1.7434	-0.6063	131.5302
33_5010	2682163.600	1235796.387	1582.618	-0.6653	2.4141	129.2718
33_5011	2681975.250	1236185.003	1581.473	0.4608	-1.3485	129.7295
33_5012	2681796.152	1236546.107	1583.787	0.9683	0.6321	129.6168
33_5013	2681623.874	1236894.525	1587.974	1.4335	-0.8229	129.4639
33_5014	2681421.961	1237290.260	1596.591	1.8905	-1.2286	130.2042
33_5015	2681225.272	1237651.109	1602.263	-1.0636	0.2335	130.3260
33_5016	2681036.940	1237998.447	1599.802	-2.7185	3.6756	130.6211

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WARNING: Suspect orientation angle(s) (> 5.00000 [grd]) in following photo(s):

photo	omega	phi	kappa
31_5031	-5.02901	2.47259	131.74707

Sigma naught : 7.1 [micron] = 0.5 [pixel in level 0]

Elapsed time = 0 hour 0 min. 7 sec.

End of Post Processing: Tue Nov 25 10:24:34 2008