

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

## R:\Projekte\31482-08\_Sihlwald-1980\20\_AT\_RGB \Sihlwald-1980\_rgb.prj

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### Start Post Processing: Tue Nov 25 10:12:08 2008

- [Standard deviations \(a-priori\) :](#)
  - [Tie Point Generator](#)
  - [total of 9899 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 \[grd\] \)](#)
  - [Sigma naught : 5.3 \[micron\] = 0.4 \[pixel in level 0\]](#)
  - [Elapsed time = 0 hour 0 min. 7 sec.](#)
  - [End of Post Processing: Tue Nov 25 10:12:14 2008](#)
- 

**Start Post Processing: Tue Nov 25 10:12:08 2008**

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

Photo scale                               : 1:5606
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 :
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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) :**

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## 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:

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  1 013003-78
    Distortion           : Table

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**Tie Point Generator**

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```

created 62 observations for photo 30_7401
created 93 observations for photo 30_7402
created 103 observations for photo 30_7403
created 102 observations for photo 30_7404
created 85 observations for photo 30_7405
created 55 observations for photo 30_7406
created 58 observations for photo 30_7407
created 71 observations for photo 30_7408
created 72 observations for photo 30_7409
created 64 observations for photo 30_7410
created 43 observations for photo 30_7411
created 56 observations for photo 30_7412
created 64 observations for photo 30_7413
created 64 observations for photo 30_7414
created 63 observations for photo 30_7415
created 82 observations for photo 30_7416
created 104 observations for photo 30_7417
created 126 observations for photo 30_7418
created 139 observations for photo 30_7419
created 131 observations for photo 30_7420
created 144 observations for photo 30_7421
created 114 observations for photo 30_7422
created 131 observations for photo 30_7423
created 160 observations for photo 30_7424
created 137 observations for photo 30_7425
created 97 observations for photo 31_7485
created 149 observations for photo 31_7486
created 150 observations for photo 31_7487
created 115 observations for photo 31_7488
created 48 observations for photo 31_7489
created 32 observations for photo 31_7490
created 28 observations for photo 31_7491
created 26 observations for photo 31_7492

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created	30	observations	for	photo	31_7493
created	26	observations	for	photo	31_7494
created	21	observations	for	photo	31_7495
created	37	observations	for	photo	31_7496
created	61	observations	for	photo	31_7497
created	51	observations	for	photo	31_7498
created	31	observations	for	photo	31_7499
created	60	observations	for	photo	31_7500
created	119	observations	for	photo	31_7501
created	131	observations	for	photo	31_7502
created	153	observations	for	photo	31_7503
created	133	observations	for	photo	31_7504
created	138	observations	for	photo	31_7505
created	130	observations	for	photo	31_7506
created	140	observations	for	photo	31_7507
created	114	observations	for	photo	31_7508
created	130	observations	for	photo	31_7509
created	108	observations	for	photo	31_7510
created	69	observations	for	photo	31_7511
created	112	observations	for	photo	32_7426
created	125	observations	for	photo	32_7427
created	97	observations	for	photo	32_7428
created	66	observations	for	photo	32_7429
created	73	observations	for	photo	32_7430
created	102	observations	for	photo	32_7431
created	87	observations	for	photo	32_7432
created	100	observations	for	photo	32_7433
created	87	observations	for	photo	32_7434
created	56	observations	for	photo	32_7435
created	56	observations	for	photo	32_7436
created	62	observations	for	photo	32_7437
created	53	observations	for	photo	32_7438
created	40	observations	for	photo	32_7439
created	43	observations	for	photo	32_7440
created	61	observations	for	photo	32_7441
created	120	observations	for	photo	32_7442
created	154	observations	for	photo	32_7443
created	151	observations	for	photo	32_7444
created	108	observations	for	photo	32_7445
created	95	observations	for	photo	32_7446
created	103	observations	for	photo	32_7447
created	72	observations	for	photo	32_7448
created	36	observations	for	photo	32_7449
created	91	observations	for	photo	33_7469
created	82	observations	for	photo	33_7470
created	88	observations	for	photo	33_7471
created	103	observations	for	photo	33_7472
created	83	observations	for	photo	33_7473
created	71	observations	for	photo	33_7474
created	75	observations	for	photo	33_7475
created	73	observations	for	photo	33_7476
created	59	observations	for	photo	33_7477
created	65	observations	for	photo	33_7478
created	83	observations	for	photo	33_7479
created	110	observations	for	photo	33_7480
created	105	observations	for	photo	33_7481
created	73	observations	for	photo	33_7482
created	45	observations	for	photo	33_7483
created	37	observations	for	photo	33_7484
created	35	observations	for	photo	29_7377
created	49	observations	for	photo	29_7378
created	64	observations	for	photo	29_7379
created	85	observations	for	photo	29_7380
created	74	observations	for	photo	29_7381
created	100	observations	for	photo	29_7382
created	87	observations	for	photo	29_7383
created	73	observations	for	photo	29_7384
created	72	observations	for	photo	29_7385
created	46	observations	for	photo	29_7386
created	31	observations	for	photo	29_7387
created	50	observations	for	photo	29_7388
created	65	observations	for	photo	29_7389
created	96	observations	for	photo	29_7390

created	90 observations for photo	29_7391
created	90 observations for photo	29_7392
created	106 observations for photo	29_7393
created	114 observations for photo	29_7394
created	122 observations for photo	29_7395
created	111 observations for photo	29_7396
created	80 observations for photo	29_7397
created	106 observations for photo	29_7398
created	117 observations for photo	29_7399
created	84 observations for photo	29_7400

**total of 9899 measurements in 116 photos are used for adjustment**

sigma naught	5.5 micron (10:12:09)
sigma naught	6.1 micron (10:12:10)
sigma naught	5.1 micron (10:12:10)
sigma naught	4.9 micron (10:12:10)
sigma naught	4.9 micron (10:12:10)
sigma naught	4.9 micron (10:12:10)
sigma naught	5.3 micron (10:12:10)

found	684 points connecting	2 photos
found	724 points connecting	3 photos
found	400 points connecting	4 photos
found	496 points connecting	5 photos
found	304 points connecting	6 photos
found	46 points connecting	7 photos
found	11 points connecting	8 photos
found	5 points connecting	9 photos

number of observations	20023
number of unknowns	8706
redundancy	11317

RMS automatic points in photo	
x	3.7 micron
y	4.0 micron

RMS control points in photo	
x	5.0 micron
y	5.4 micron

RMS manual photo measurements with default standard deviation set	
x	0.119 [meter]
y	0.097 [meter]

RMS manual photo measurements with default standard deviation set	
z	0.152 [meter]

RMS manual photo measurements with standard deviation set 1	
x	0.099 [meter]
y	0.096 [meter]

RMS manual photo measurements with standard deviation set 1	
z	0.147 [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_7377	0.087	0.093	0.071	6.3276	7.5751	4.1308
29_7378	0.079	0.071	0.060	5.6909	6.2307	3.2158
29_7379	0.076	0.065	0.053	5.5082	6.0876	2.6770
29_7380	0.057	0.064	0.049	4.7025	4.1858	2.1886
29_7381	0.058	0.060	0.045	4.2747	4.3727	2.0571
29_7382	0.059	0.053	0.044	4.0010	3.9874	1.8519
29_7383	0.062	0.059	0.048	4.2917	4.2549	2.0008
29_7384	0.062	0.059	0.052	4.3851	3.7016	1.8208
29_7385	0.062	0.061	0.055	4.6238	3.5805	2.0402
29_7386	0.069	0.068	0.058	5.2539	3.9448	2.2005
29_7387	0.073	0.068	0.061	5.1046	4.2841	2.4397
29_7388	0.066	0.064	0.061	4.5481	4.0810	2.1645
29_7389	0.061	0.060	0.058	4.2069	3.7440	2.0378
29_7390	0.054	0.055	0.054	3.8260	3.3468	1.7254
29_7391	0.055	0.051	0.051	3.4763	3.7358	1.7467
29_7392	0.049	0.046	0.048	3.3016	2.9951	1.5725
29_7393	0.047	0.048	0.045	3.4186	3.0348	1.5454
29_7394	0.047	0.044	0.044	3.3061	2.8964	1.4869
29_7395	0.048	0.044	0.043	3.1530	2.9197	1.5137
29_7396	0.048	0.044	0.043	3.1130	2.8526	1.4242
29_7397	0.051	0.046	0.043	3.10739	3.1215	1.6149
29_7398	0.055	0.049	0.045	3.2858	3.3833	1.7033
29_7399	0.061	0.060	0.050	4.0404	3.7965	2.1423
29_7400	0.076	0.071	0.060	4.6055	4.5749	2.7445
30_7401	0.071	0.074	0.068	5.7130	5.6472	3.3539
30_7402	0.061	0.059	0.054	4.8002	4.5047	2.2926
30_7403	0.055	0.052	0.046	4.2148	4.0529	1.8752
30_7404	0.055	0.048	0.044	4.0876	4.0253	1.6991
30_7405	0.054	0.046	0.041	3.7282	4.0338	1.5816
30_7406	0.071	0.046	0.039	3.7446	5.6125	1.5849
30_7407	0.077	0.051	0.043	4.3763	6.0066	1.7228
30_7408	0.065	0.054	0.045	4.7487	4.4163	1.6972
30_7409	0.066	0.066	0.050	5.8011	4.2181	1.7539
30_7410	0.073	0.057	0.052	5.1119	4.9243	1.6517
30_7411	0.074	0.066	0.054	6.0794	4.5611	1.7935
30_7412	0.064	0.064	0.054	5.7003	3.7817	1.6126
30_7413	0.068	0.055	0.055	4.5797	4.6881	1.6300
30_7414	0.066	0.056	0.052	4.5283	4.7441	1.6193
30_7415	0.057	0.051	0.048	4.0414	3.8015	1.4358
30_7416	0.051	0.054	0.044	4.2385	3.2222	1.4453
30_7417	0.044	0.043	0.039	3.1633	2.9017	1.2138
30_7418	0.042	0.037	0.036	2.7968	2.7367	1.1341
30_7419	0.040	0.037	0.033	2.8103	2.6009	1.1196
30_7420	0.042	0.037	0.033	2.7236	2.7967	1.1694
30_7421	0.041	0.038	0.033	2.6072	2.7186	1.1327
30_7422	0.045	0.046	0.036	3.3001	2.7907	1.2750
30_7423	0.047	0.047	0.039	3.0982	2.8963	1.4272
30_7424	0.053	0.052	0.045	3.3041	3.3475	1.6420
30_7425	0.061	0.062	0.055	3.6141	3.9706	2.0539
31_7485	0.064	0.063	0.053	4.5312	4.5773	2.3018
31_7486	0.054	0.048	0.040	3.3856	3.7644	1.6859
31_7487	0.053	0.046	0.037	3.3563	3.6492	1.5338
31_7488	0.053	0.045	0.039	3.1395	3.5646	1.4669
31_7489	0.066	0.054	0.046	4.0453	4.4542	1.6770
31_7490	0.070	0.073	0.053	5.0701	5.7740	2.2693
31_7491	0.068	0.068	0.060	5.3487	4.4871	2.2092
31_7492	0.085	0.076	0.066	6.1133	6.4606	2.9217
31_7493	0.077	0.081	0.065	6.2125	5.3801	2.9262
31_7494	0.073	0.078	0.063	6.2023	4.4361	2.2475
31_7495	0.075	0.062	0.061	4.8364	4.6812	2.1521
31_7496	0.070	0.069	0.061	5.3306	4.4887	1.9819
31_7497	0.059	0.057	0.055	4.3600	3.8287	1.5437
31_7498	0.061	0.064	0.054	4.9936	4.2426	1.6961
31_7499	0.062	0.066	0.048	4.7271	4.5700	1.5349
31_7500	0.049	0.056	0.043	3.7649	3.7930	1.4252
31_7501	0.039	0.041	0.036	2.9707	2.7043	1.1209
31_7502	0.039	0.038	0.032	2.8611	2.6489	1.0651
31_7503	0.036	0.034	0.029	2.4675	2.4622	1.0047
31_7504	0.038	0.036	0.030	2.5838	2.6715	1.0515
31_7505	0.039	0.035	0.032	2.3517	2.6488	1.1079
31_7506	0.044	0.040	0.036	2.5056	2.9809	1.2121
31_7507	0.045	0.045	0.040	2.7559	2.9803	1.3495
31_7508	0.049	0.052	0.045	3.3928	2.9732	1.5353

31_7509	0.055	0.056	0.051	3.4190	3.3721	1.7202
31_7510	0.065	0.069	0.060	3.9357	4.3890	2.1412
31_7511	0.074	0.087	0.077	5.0106	4.9330	2.7889
32_7426	0.065	0.059	0.052	3.7408	3.8297	1.9632
32_7427	0.059	0.058	0.047	3.7069	3.4924	1.7767
32_7428	0.058	0.056	0.051	3.5335	3.4145	1.6521
32_7429	0.059	0.065	0.054	4.0722	3.6176	1.8873
32_7430	0.060	0.063	0.058	4.2227	3.6872	1.7720
32_7431	0.059	0.061	0.059	4.0588	3.4951	1.7088
32_7432	0.060	0.061	0.060	4.1420	3.6179	1.8176
32_7433	0.060	0.060	0.059	4.1280	3.5213	1.8388
32_7434	0.064	0.063	0.057	4.0664	4.2928	2.0788
32_7435	0.062	0.060	0.054	4.0340	4.1795	1.9552
32_7436	0.060	0.055	0.053	3.9813	4.0585	1.6383
32_7437	0.058	0.056	0.053	4.2040	4.0656	1.6088
32_7438	0.057	0.079	0.052	5.6671	4.7560	1.6746
32_7439	0.063	0.062	0.046	4.4180	4.7127	1.6820
32_7440	0.067	0.048	0.043	3.4774	4.8493	1.6071
32_7441	0.056	0.047	0.040	2.9383	4.1515	1.4580
32_7442	0.046	0.041	0.036	2.6916	3.0735	1.2789
32_7443	0.043	0.041	0.034	2.7532	2.6439	1.2163
32_7444	0.043	0.043	0.036	2.6791	2.6392	1.2452
32_7445	0.054	0.048	0.043	3.0332	3.0472	1.4163
32_7446	0.055	0.056	0.048	3.2022	3.0534	1.6751
32_7447	0.061	0.065	0.057	3.4977	3.1168	1.9590
32_7448	0.073	0.077	0.066	3.9888	4.2161	2.6000
32_7449	0.081	0.105	0.078	5.2400	5.2274	3.6854
33_7469	0.069	0.070	0.067	4.9027	3.6204	2.2921
33_7470	0.060	0.063	0.063	4.4315	3.1953	1.9060
33_7471	0.059	0.061	0.060	4.3919	3.2484	1.8733
33_7472	0.056	0.059	0.055	4.2719	3.2876	1.8736
33_7473	0.055	0.058	0.052	4.1513	3.4831	1.8985
33_7474	0.058	0.059	0.051	4.5069	3.8627	1.9410
33_7475	0.062	0.057	0.049	4.4635	4.2717	2.0170
33_7476	0.064	0.063	0.050	5.1309	4.6276	2.2032
33_7477	0.062	0.057	0.048	4.4344	4.7731	1.9645
33_7478	0.058	0.048	0.043	3.5392	4.5093	1.9983
33_7479	0.056	0.048	0.044	3.3106	4.4966	1.7209
33_7480	0.053	0.050	0.044	3.4973	3.9397	1.9451
33_7481	0.052	0.048	0.047	3.4825	3.3649	1.8671
33_7482	0.056	0.057	0.050	3.7867	3.7105	2.0448
33_7483	0.064	0.070	0.055	4.5543	4.4282	2.5685
33_7484	0.069	0.080	0.064	4.7282	4.6079	3.1883

mean standard deviations of rotations

omega	4.1 [grd/1000]
phi	3.9 [grd/1000]
kappa	1.9 [grd/1000]

max standard deviations of rotations

omega	6.3 [grd/1000] at photo	29_7377
phi	7.6 [grd/1000] at photo	29_7377
kappa	4.1 [grd/1000] at photo	29_7377

mean standard deviations of translations

x	0.059 [meter]
y	0.057 [meter]
z	0.050 [meter]

max standard deviations of translations

x	0.087 [meter] at photo	29_7377
y	0.105 [meter] at photo	32_7449
z	0.078 [meter] at photo	32_7449

residuals horizontal control points in [meter]

control point ID	rx	ry
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qu20	0.030	0.038
qu23	0.065	-0.136
qu26	-0.016	-0.160
qu27	-0.036	0.070
qu36	0.052	-0.152
v3001	0.148	-0.006
v3019	0.014	-0.107
v3020	0.004	-0.164
v3021	0.104	-0.050
v3023	0.212	-0.092
v3035	0.402	0.235
v3043	0.116	0.056
v3060	-0.017	0.169
v3065	0.105	-0.060
v3077	0.006	-0.027
v3087	0.037	0.010
v3088	0.083	-0.011
v3091	-0.023	0.033
v3094	0.058	0.043
v3095	0.032	0.044
v3096	0.066	0.030
v3124	0.011	-0.017
v3149	-0.081	0.160
v3151	0.040	-0.118
v3152	0.010	-0.097
v3154	-0.097	-0.028
v3185	0.051	-0.026
v3242	0.001	0.016
v3243	0.019	0.068
v3250	0.076	0.270
v3255	0.073	-0.007
v3338	0.114	-0.114
v3348	-0.080	-0.147
v3405	-0.197	0.197
v3410	0.052	0.090
v3411	0.011	0.099
v6001	-0.016	0.001
v6006	-0.011	0.019
v6007	-0.065	-0.053
v6601	-0.010	0.016
v6602	-0.061	-0.041
v6606	-0.097	0.076
v6607	0.014	0.042
v6609	0.051	-0.058
v6610	-0.020	0.098
v6611	-0.027	0.047
v6612	-0.059	-0.064
v6613	-0.021	-0.065
v6614	0.185	0.007
1111_517_0	-0.233	0.122
8111_411_1	0.333	-0.102
8111_518_0	-0.127	0.102
8111_521_0	-0.161	-0.021
8111_528_0	-0.060	0.096
8111_555_0	-0.060	-0.022
8111_661_0	-0.037	0.165
2004009000401	-0.036	0.004
2004009000501	0.021	-0.046
2004009000601	-0.022	-0.034
2004009000701	-0.015	-0.041

**residuals vertical control points in [meter]**

control point ID	rz
8001	0.317
8002	0.078
qu11	-0.334
qu20	0.136

qu23	-0.150
qu26	0.108
qu27	-0.136
qu36	-0.260
v1092	0.071
v3001	0.003
v3019	0.264
v3020	-0.064
v3021	0.082
v3023	0.162
v3035	0.054
v3043	0.099
v3060	0.029
v3065	-0.041
v3077	-0.181
v3087	-0.052
v3088	0.236
v3091	0.307
v3094	-0.028
v3095	0.028
v3096	-0.027
v3124	-0.278
v3149	-0.099
v3151	0.013
v3152	0.121
v3154	0.366
v3185	0.095
v3242	-0.140
v3243	-0.134
v3250	-0.081
v3255	-0.040
v3296	-0.169
v3338	-0.013
v3348	-0.052
v3405	-0.164
v3410	0.117
v3411	0.015
v6001	0.304
v6006	0.034
v6007	-0.039
v6601	0.149
v6602	0.030
v6606	-0.266
v6607	-0.081
v6609	0.014
v6610	-0.031
v6611	-0.134
v6612	0.139
v6613	-0.054
v6614	-0.097
1111_414_0	0.268
1111_432_0	0.074
1111_436_0	0.055
1111_441_1	0.082
1111_517_0	0.181
1111_521_0	0.048
1111_525_0	0.049
1111_528_0	-0.071
1111_531_0	-0.125
1111_540_0	-0.160
1111_540_1	-0.101
1111_556_0	-0.043
1111_629_0	-0.142
1111_634_0	0.067
1111_642_0	0.050
1111_648_0	-0.104
1111_651_0	-0.064
1111_751_0	-0.210
1111_752_0	-0.112
1111_755_0	0.281
1111_759_0	-0.340
1111_763_0	-0.064
1111_764_0	0.019



1111_765_0	-0.082
8111_411_1	0.312
8111_416_0	-0.180
8111_510_5	-0.204
8111_511_1	0.253
8111_518_0	0.111
8111_519_0	0.170
8111_521_0	-0.108
8111_527_0	-0.173
8111_528_0	0.230
8111_530_0	-0.159
8111_532_2	-0.189
8111_536_0	-0.066
8111_552_0	0.099
8111_553_0	0.076
8111_555_0	0.059
8111_559_0	-0.067
8111_563_1	0.071
8111_660_0	0.034
8111_661_0	0.151
9111_640_0	0.073
9111_747_0	0.069
9111_750_0	-0.020
9111_757_0	-0.151
2004009000401	0.060
2004009000501	0.192
2004009000601	-0.078
2004009000701	0.131

mean standard deviations of terrain points

x	0.036 [meter]
y	0.036 [meter]
z	0.066 [meter]

max standard deviations of terrain points

x	0.107 [meter] at point	1246
y	0.091 [meter] at point	1360
z	0.149 [meter] at point	1288

**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_7377	2687480.044	1231493.545	1387.686	0.0060	-0.4614	132.4824	
29_7378	2687303.151	1231819.059	1388.205	-0.5155	-0.1208	131.7356	
29_7379	2687096.236	1232206.596	1389.442	0.2210	-0.8277	131.0601	
29_7380	2686905.357	1232568.306	1387.553	-0.8015	0.3322	131.8020	
29_7381	2686707.504	1232952.680	1388.512	-0.0960	-0.3807	130.4969	
29_7382	2686505.921	1233346.074	1389.647	0.5974	-1.7842	130.7184	
29_7383	2686278.281	1233771.796	1391.408	1.6801	-1.5878	132.4072	
29_7384	2686054.418	1234165.623	1391.818	0.8442	-0.4326	133.5203	
29_7385	2685841.654	1234539.309	1392.226	-1.0783	1.8364	131.8051	
29_7386	2685648.483	1234900.240	1391.578	-0.0883	1.0794	130.2208	
29_7387	2685444.569	1235297.856	1393.617	0.6973	-0.7088	131.6026	
29_7388	2685252.304	1235663.756	1393.604	0.4789	-1.5916	132.1160	
29_7389	2685049.147	1236039.287	1398.845	1.2770	-0.0735	131.3132	
29_7390	2684850.614	1236413.816	1396.239	-0.3846	-0.4477	131.0945	
29_7391	2684638.150	1236820.019	1388.905	-1.0087	0.3951	130.9609	
29_7392	2684409.574	1237265.159	1388.085	0.8156	-0.3760	131.3934	
29_7393	2684174.962	1237708.988	1389.788	0.7237	-0.9448	131.5112	
29_7394	2683920.173	1238154.794	1383.482	-0.2567	-0.9986	131.6483	
29_7395	2683662.993	1238589.628	1381.458	0.3987	-1.2212	132.7069	
29_7396	2683404.290	1239013.815	1378.439	-1.2202	1.0108	132.7337	
29_7397	2683152.081	1239450.243	1371.722	-0.2877	-0.7212	132.2881	
29_7398	2682919.500	1239865.507	1371.179	-0.3614	0.4875	131.7294	

29_7399	2682678.900	1240296.381	1369.027	0.7166	-1.4030	131.9526
29_7400	2682444.907	1240705.144	1371.224	1.1329	-1.1199	133.3818
30_7401	2687312.223	1230422.534	1336.909	1.7475	-2.1414	135.8054
30_7402	2687108.415	1230771.617	1336.249	-0.3805	1.0605	134.0403
30_7403	2686896.401	1231144.106	1337.283	-0.0044	0.4392	132.9562
30_7404	2686697.810	1231507.030	1333.427	-1.5448	1.3791	132.8262
30_7405	2686513.539	1231856.289	1331.817	0.4048	-1.6399	132.8753
30_7406	2686307.070	1232234.264	1331.327	1.6552	-1.1427	133.5770
30_7407	2686086.890	1232622.621	1335.922	0.8245	-0.6267	133.8224
30_7408	2685876.765	1232990.576	1342.309	1.1295	-1.7756	132.7339
30_7409	2685667.967	1233366.781	1347.621	0.4245	0.6264	133.2811
30_7410	2685438.459	1233794.151	1355.749	0.1458	0.0784	133.1311
30_7411	2685214.715	1234234.731	1361.036	-2.0473	1.8128	131.6950
30_7412	2685011.523	1234665.924	1361.163	0.8883	0.9107	132.1425
30_7413	2684812.368	1235090.828	1366.852	0.6661	0.2412	132.3738
30_7414	2684617.515	1235518.178	1375.392	-0.7946	-0.3012	131.1432
30_7415	2684423.199	1235949.374	1385.843	-0.0075	-0.6059	131.5517
30_7416	2684236.909	1236349.346	1391.917	0.9596	-1.0773	131.8071
30_7417	2683996.368	1236827.434	1382.065	-0.8999	-0.1653	132.6742
30_7418	2683749.042	1237280.938	1379.901	2.0581	-1.4762	134.6449
30_7419	2683487.356	1237731.795	1382.924	-0.2684	0.7777	131.4400
30_7420	2683237.601	1238168.758	1379.705	0.6620	-3.1684	133.0143
30_7421	2682967.193	1238612.413	1372.502	-0.8729	0.7714	133.4251
30_7422	2682697.573	1239065.911	1367.115	0.2107	-1.2567	131.8092
30_7423	2682422.974	1239519.483	1368.335	0.3593	-1.3127	132.7317
30_7424	2682164.004	1239937.055	1364.923	0.1951	-1.5736	133.3516
30_7425	2681907.751	1240349.716	1363.277	0.1684	1.1738	132.5176
31_7485	2686721.270	1230217.078	1439.978	-0.1995	0.4185	132.5525
31_7486	2686470.619	1230680.923	1443.041	-2.4532	2.8513	132.8098
31_7487	2686261.113	1231085.422	1438.357	0.2460	-1.3352	131.9995
31_7488	2686035.342	1231502.562	1435.386	0.6765	-0.5767	133.4320
31_7489	2685814.429	1231898.078	1437.628	0.5665	-0.3135	132.6936
31_7490	2685601.970	1232279.562	1436.749	0.2897	-0.6510	132.2087
31_7491	2685406.181	1232634.258	1435.409	-0.5826	0.5067	133.6213
31_7492	2685221.022	1232979.365	1432.624	-0.7544	1.4703	131.8468
31_7493	2685052.766	1233311.478	1433.545	-0.1797	0.6370	131.8265
31_7494	2684875.959	1233669.856	1438.942	0.6475	-1.4696	132.1014
31_7495	2684683.853	1234050.070	1440.498	-0.2025	-0.1194	131.1872
31_7496	2684482.124	1234447.999	1445.551	-0.3814	-0.9765	131.4513
31_7497	2684282.860	1234833.724	1464.163	1.1065	0.3111	131.5404
31_7498	2684067.206	1235261.685	1465.099	-2.9803	0.0089	132.1363
31_7499	2683857.172	1235689.580	1464.149	-4.7233	1.8066	132.7982
31_7500	2683654.242	1236121.756	1440.755	-0.2661	-2.4425	130.5329
31_7501	2683442.271	1236534.515	1430.972	1.4081	-0.7994	132.2416
31_7502	2683201.616	1236962.803	1420.905	-1.1078	-0.3758	133.5679
31_7503	2682964.468	1237381.106	1414.006	-0.0415	0.0586	132.7976
31_7504	2682723.925	1237807.586	1397.263	-0.7702	-0.8492	133.5363
31_7505	2682498.332	1238200.654	1393.242	3.1223	0.0514	133.3973
31_7506	2682280.285	1238577.040	1398.903	-1.7274	0.3278	133.1258
31_7507	2682065.543	1238961.221	1391.294	0.8128	0.6012	133.2313
31_7508	2681871.108	1239314.103	1394.544	1.1976	1.1734	132.2940
31_7509	2681662.987	1239686.891	1395.224	1.4658	-1.1633	133.8383
31_7510	2681438.578	1240069.683	1398.139	-0.2857	0.6663	133.8719
31_7511	2681229.560	1240417.652	1406.223	0.9674	-0.4906	134.2055
32_7426	2686006.984	1230283.343	1594.820	2.2798	-4.6938	132.7559
32_7427	2685738.274	1230776.996	1592.468	0.2691	-1.4619	132.3394
32_7428	2685491.835	1231214.818	1590.079	0.9792	-2.0815	133.0239
32_7429	2685237.072	1231662.817	1586.940	-0.3618	-0.2773	131.9020
32_7430	2685029.272	1232034.401	1584.856	0.3789	-1.0538	132.1918
32_7431	2684829.061	1232385.938	1585.002	-0.3749	0.2629	131.5239
32_7432	2684605.990	1232781.863	1585.030	-0.2650	-0.0014	132.1661
32_7433	2684396.882	1233153.372	1585.336	0.7169	-1.1474	132.0257
32_7434	2684186.724	1233526.789	1586.544	-0.2435	0.8943	131.9183
32_7435	2683984.426	1233892.904	1585.140	0.5843	-1.5476	131.6667
32_7436	2683783.086	1234252.818	1582.278	0.3300	-0.0125	131.8929
32_7437	2683580.200	1234613.009	1586.435	-0.4448	0.8227	132.2530
32_7438	2683365.183	1235001.503	1584.579	-1.0563	0.9505	131.1548
32_7439	2683161.881	1235384.851	1580.241	-0.0597	-1.0086	131.9027
32_7440	2682959.743	1235772.179	1581.176	2.2639	-1.3602	131.0476
32_7441	2682769.244	1236136.374	1587.445	2.4304	-1.9894	131.3846
32_7442	2682540.949	1236560.316	1591.854	-0.0648	0.2542	132.2293
32_7443	2682304.859	1236992.064	1594.625	0.7956	-1.7400	131.8744
32_7444	2682068.391	1237407.735	1602.902	-0.9821	-0.5010	131.4112

32_7445	2681805.019	1237866.728	1611.360	0.8865	-0.1700	132.9464
32_7446	2681562.115	1238313.077	1613.946	-1.2932	-1.1847	132.0115
32_7447	2681296.488	1238773.785	1609.122	0.6336	-2.2205	133.7707
32_7448	2681028.287	1239218.490	1597.026	-1.2326	-0.1846	132.3097
32_7449	2680801.121	1239615.052	1587.930	-1.2532	-0.2492	131.5706
33_7469	2684213.152	1232164.041	1567.379	2.7276	-3.8145	132.9395
33_7470	2683962.380	1232573.261	1562.653	-0.4378	-0.2003	133.3471
33_7471	2683692.597	1233005.332	1564.642	0.4828	-0.3967	133.3473
33_7472	2683422.086	1233441.359	1562.809	-1.3255	1.2302	132.7787
33_7473	2683214.409	1233793.871	1559.122	0.6390	1.2738	133.7980
33_7474	2682995.655	1234179.624	1570.570	-1.0294	1.0866	132.3294
33_7475	2682785.708	1234565.644	1566.001	-1.7842	2.5984	131.3762
33_7476	2682582.755	1234972.152	1564.428	0.5892	-0.7390	130.4939
33_7477	2682373.942	1235388.314	1576.148	2.0339	-1.3497	132.5851
33_7478	2682174.617	1235774.267	1582.602	-0.6300	2.1852	130.2378
33_7479	2681985.619	1236164.093	1581.719	0.5472	-1.7366	130.9837
33_7480	2681798.135	1236542.739	1583.812	1.0006	0.0133	130.8485
33_7481	2681620.445	1236901.960	1588.283	1.5024	-1.3792	130.6729
33_7482	2681432.862	1237270.426	1596.272	1.7682	-1.5318	131.5165
33_7483	2681237.028	1237629.816	1602.549	-0.3552	-1.0672	131.4152
33_7484	2681041.746	1237989.478	1600.058	-2.7614	2.1838	131.5269

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**Sigma naught :        5.3 [micron] =        0.4 [pixel in level 0]**

**Elapsed time = 0 hour 0 min. 7 sec.**

**End of Post Processing: Tue Nov 25 10:12:14 2008**