

GOMOS Daily Report 27-AUG-2006

Level 0 and Level 1 products

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1. General Info

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products

as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle...
A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	29AUG2006 15:14:56
Data source version	GOMOS/5.00
Start time of products	27-08-2006 (27AUG2006 00:00:00)
Stop time of products	28-08-2006 (28AUG2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	91
Nb of prods with errors	15

2. Summary of products arrived in PCF (Product Control Facility)

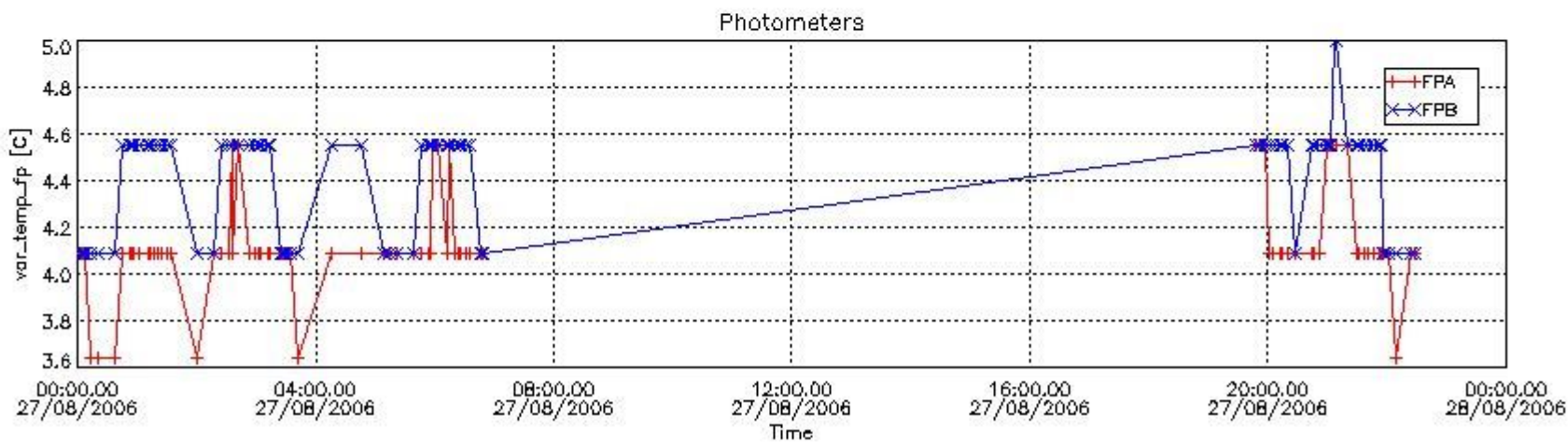
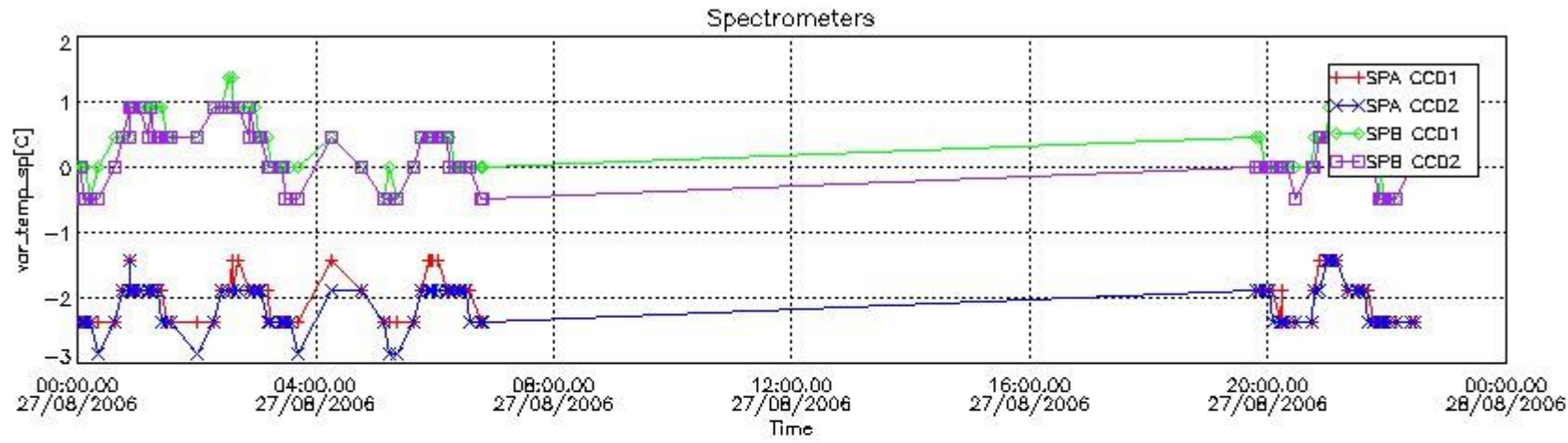
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20060827_000432_000000292050_00374_23474_1072.N1	27-AUG-2006 00:04:32	Bright	29.000	92	53Eps Cyg	2.5000	4500.0	58	23474	Yes
2	GOM_TRA_1PNPDE20060827_000619_000000332050_00374_23474_1073.N1	27-AUG-2006 00:06:19	Bright	32.500	66	37Gam Cyg	2.2080	5900.0	65	23474	Yes
3	GOM_TRA_1PNPDE20060827_000743_000000332050_00374_23474_1074.N1	27-AUG-2006 00:07:43	Bright	33.000	19	50Alp Cyg	1.2460	10500.	66	23474	Yes
4	GOM_TRA_1PNPDE20060827_001250_000000312050_00374_23474_1075.N1	27-AUG-2006 00:12:50	Bright	31.000	89	5Alp Cep	2.4510	8000.0	62	23474	Yes
5	GOM_TRA_1PNPDE20060827_002021_000000272050_00374_23474_1076.N1	27-AUG-2006 00:20:21	Bright	27.000	49	1Alp UMi	1.9900	6300.0	54	23474	Yes
6	GOM_TRA_1PNPDE20060827_003707_000000482050_00374_23474_1077.N1	27-AUG-2006 00:37:07	Bright	48.000	24	66Alp Gem	1.5800	10200.	96	23474	No
7	GOM_TRA_1PNPDE20060827_004439_000000352050_00374_23474_1078.N1	27-AUG-2006 00:44:39	Twilight	35.000	8	10Alp CMi	0.40000	6500.0	70	23474	No
8	GOM_TRA_1PNPDE20060827_005158_000000382050_00374_23474_1079.N1	27-AUG-2006 00:51:58	Dark	38.000	1	9Alp CMa	-1.4400	11000.	76	23474	No
9	GOM_TRA_1PNPDE20060827_005158_000000462050_00374_23474_1091.N1	27-AUG-2006 00:51:58	Dark	45.500	1	9Alp CMa	-1.4400	11000.	91	23474	No
10	GOM_TRA_1PNPDE20060827_005322_000000332050_00374_23474_1079.N1	27-AUG-2006 00:53:22	Dark	32.500	179	24Omi2CMa	3.0320	24000.	65	23474	No
11	GOM_TRA_1PNPDE20060827_005450_000000372050_00374_23474_1064.N1	27-AUG-2006 00:54:50	Dark	37.000	23	21Eps CMa	1.5020	26000.	74	23474	No
12	GOM_TRA_1PNPDE20060827_005634_000000392050_00374_23474_1094.N1	27-AUG-2006 00:56:34	Dark	39.000	117	Pi Pup	2.7060	3800.0	78	23474	No
13	GOM_TRA_1PNPDE20060827_010139_000000472050_00374_23474_1066.N1	27-AUG-2006 01:01:39	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	23474	No
14	GOM_TRA_1PNPDE20060827_011147_000000352050_00375_23475_1067.N1	27-AUG-2006 01:11:47	Dark	34.500	143	Alp Hyi	2.8570	7200.0	69	23475	No
15	GOM_TRA_1PNPDE20060827_011300_000000372050_00375_23475_1068.N1	27-AUG-2006 01:13:00	Dark	37.000	9	Alp Eri	0.45300	24000.	74	23475	No
16	GOM_TRA_1PNPDE20060827_011748_000000382050_00375_23475_1069.N1	27-AUG-2006 01:17:48	Straylight	37.500	148	Alp Tuc	2.8780	4100.0	75	23475	No
17	GOM_TRA_1PNPDE20060827_012126_000000352050_00375_23475_1070.N1	27-AUG-2006 01:21:26	Straylight	35.000	31	Alp Gru	1.7340	15200.	70	23475	No
18	GOM_TRA_1PNPDE20060827_012418_000000332050_00375_23475_1071.N1	27-AUG-2006 01:24:18	Straylight	32.500	172	Gam Gru	3.0030	13100.	65	23475	No
19	GOM_TRA_1PNPDE20060827_013031_000000352050_00375_23475_1072.N1	27-AUG-2006 01:30:31	Bright	34.500	142	49Del Cap	2.8500	8900.0	69	23475	No
20	GOM_TRA_1PNPDE20060827_013343_000000332050_00375_23475_1073.N1	27-AUG-2006 01:33:43	Bright	33.000	154	22Bet Aqr	2.8990	5700.0	66	23475	No
21	GOM_TRA_1PNPDE20060827_020057_000000282050_00375_23475_1096.N1	27-AUG-2006 02:00:57	Bright	28.000	49	1Alp UMi	1.9900	6300.0	56	23475	Yes
22	GOM_TRA_1PNPDE20060827_021743_000000462050_00375_23475_1094.N1	27-AUG-2006 02:17:43	Bright	46.000	24	66Alp Gem	1.5800	10200.	92	23475	No
23	GOM_TRA_1PNPDE20060827_022515_000000362050_00375_23475_1076.N1	27-AUG-2006 02:25:15	Twilight	35.500	8	10Alp CMi	0.40000	6500.0	71	23475	No
24	GOM_TRA_1PNPDE20060827_023234_000000502050_00375_23475_1077.N1	27-AUG-2006 02:32:34	Dark	50.000	1	9Alp CMa	-1.4400	11000.	100	23475	No
25	GOM_TRA_1PNPDE20060827_023527_000000382050_00375_23475_1078.N1	27-AUG-2006 02:35:27	Dark	37.500	23	21Eps CMa	1.5020	26000.	75	23475	No
26	GOM_TRA_1PNPDE20060827_023710_000000362050_00375_23475_1079.N1	27-AUG-2006 02:37:10	Dark	36.000	117	Pi Pup	2.7060	3800.0	72	23475	No
27	GOM_TRA_1PNPDE20060827_024215_000000442050_00375_23475_1080.N1	27-AUG-2006 02:42:15	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	23475	No
28	GOM_TRA_1PNPDE20060827_025224_000000342050_00376_23476_1081.N1	27-AUG-2006 02:52:24	Dark	34.000	143	Alp Hyi	2.8570	7200.0	68	23476	No
29	GOM_TRA_1PNPDE20060827_025336_000000372050_00376_23476_1082.N1	27-AUG-2006 02:53:36	Dark	36.500	9	Alp Eri	0.45300	24000.	73	23476	No
30	GOM_TRA_1PNPDE20060827_025824_000000332050_00376_23476_1083.N1	27-AUG-2006 02:58:24	Straylight	33.000	148	Alp Tuc	2.8780	4100.0	66	23476	No
31	GOM_TRA_1PNPDE20060827_030202_000000352050_00376_23476_1084.N1	27-AUG-2006 03:02:02	Straylight	35.000	31	Alp Gru	1.7340	15200.	70	23476	No
32	GOM_TRA_1PNPDE20060827_030454_000000332050_00376_23476_1085.N1	27-AUG-2006 03:04:54	Straylight	32.500	172	Gam Gru	3.0030	13100.	65	23476	No
33	GOM_TRA_1PNPDE20060827_031107_000000392050_00376_23476_1086.N1	27-AUG-2006 03:11:07	Bright	38.500	142	49Del Cap	2.8500	8900.0	77	23476	No
34	GOM_TRA_1PNPDE20060827_031419_000000332050_00376_23476_1087.N1	27-AUG-2006 03:14:19	Bright	32.500	154	22Bet Aqr	2.8990	5700.0	65	23476	No
35	GOM_TRA_1PNPDE20060827_032543_000000312050_00376_23476_1088.N1	27-AUG-2006 03:25:43	Bright	30.500	92	53Eps Cyg	2.5000	4500.0	61	23476	Yes
36	GOM_TRA_1PNPDE20060827_032731_000000302050_00376_23476_1089.N1	27-AUG-2006 03:27:31	Bright	29.500	66	37Gam Cyg	2.2080	5900.0	59	23476	Yes
37	GOM_TRA_1PNPDE20060827_032855_000000342050_00376_23476_1090.N1	27-AUG-2006 03:28:55	Bright	33.500	19	50Alp Cyg	1.2460	10500.	67	23476	Yes
38	GOM_TRA_1PNPDE20060827_033402_000000302050_00376_23476_1091.N1	27-AUG-2006 03:34:02	Bright	29.500	89	5Alp Cep	2.4510	8000.0	59	23476	Yes
39	GOM_TRA_1PNPDE20060827_034133_000000282050_00376_23476_1092.N1	27-AUG-2006 03:41:33	Bright	28.000	49	1Alp UMi	1.9900	6300.0	56	23476	Yes
40	GOM_TRA_1PNPDE20060827_041603_000000382050_00376_23476_1073.N1	27-AUG-2006 04:16:03	Dark	37.500	23	21Eps CMa	1.5020	26000.	75	23476	No
41	GOM_TRA_1PNPDE20060827_044531_000000322050_00377_23477_1080.N1	27-AUG-2006 04:45:31	Straylight	32.000	172	Gam Gru	3.0030	13100.	64	23477	No
42	GOM_TRA_1PNPDE20060827_050931_000000332050_00377_23477_1085.N1	27-AUG-2006 05:09:31	Bright	32.500	19	50Alp Cyg	1.2460	10500.	65	23477	Yes

43	GOM_TRA_1PNPDE20060827_051437_000000302050_00377_23477_1086.N1	27-AUG-2006 05:14:37	Bright	30.000	89	5Alp Cep	2.4510	8000.0	60	23477	No
44	GOM_TRA_1PNPDE20060827_052209_000000302050_00377_23477_1087.N1	27-AUG-2006 05:22:09	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23477	Yes
45	GOM_TRA_1PNPDE20060827_053855_000000302050_00377_23477_1092.N1	27-AUG-2006 05:38:55	Bright	30.000	24	66Alp Gem	1.5800	10200.	60	23477	No
46	GOM_TRA_1PNPDE20060827_054627_000000422050_00377_23477_1086.N1	27-AUG-2006 05:46:27	Twilight	41.500	8	10Alp CMi	0.40000	6500.0	83	23477	No
47	GOM_TRA_1PNPDE20060827_055347_000000402050_00377_23477_1087.N1	27-AUG-2006 05:53:47	Dark	39.500	1	9Alp CMa	-1.4400	11000.	79	23477	No
48	GOM_TRA_1PNPDE20060827_055511_000000352050_00377_23477_1088.N1	27-AUG-2006 05:55:11	Dark	35.000	179	24Omi2CMa	3.0320	24000.	70	23477	No
49	GOM_TRA_1PNPDE20060827_055639_000000372050_00377_23477_1089.N1	27-AUG-2006 05:56:39	Dark	36.500	23	21Eps CMa	1.5020	26000.	73	23477	No
50	GOM_TRA_1PNPDE20060827_055822_000000352050_00377_23477_1090.N1	27-AUG-2006 05:58:22	Dark	34.500	117	Pi Pup	2.7060	3800.0	69	23477	No
51	GOM_TRA_1PNPDE20060827_060328_000000462050_00377_23477_1091.N1	27-AUG-2006 06:03:28	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	23477	No
52	GOM_TRA_1PNPDE20060827_061337_000000332050_00378_23478_1092.N1	27-AUG-2006 06:13:37	Dark	33.000	143	Alp Hyi	2.8570	7200.0	66	23478	No
53	GOM_TRA_1PNPDE20060827_061450_000000412050_00378_23478_1093.N1	27-AUG-2006 06:14:50	Dark	41.000	9	Alp Eri	0.45300	24000.	82	23478	No
54	GOM_TRA_1PNPDE20060827_061937_000000332050_00378_23478_1094.N1	27-AUG-2006 06:19:37	Straylight	32.500	148	Alp Tuc	2.8780	4100.0	65	23478	No
55	GOM_TRA_1PNPDE20060827_062315_000000362050_00378_23478_1095.N1	27-AUG-2006 06:23:15	Straylight	35.500	31	Alp Gru	1.7340	15200.	71	23478	No
56	GOM_TRA_1PNPDE20060827_062607_000000322050_00378_23478_1096.N1	27-AUG-2006 06:26:07	Straylight	32.000	172	Gam Gru	3.0030	13100.	64	23478	No
57	GOM_TRA_1PNPDE20060827_063220_000000402050_00378_23478_1097.N1	27-AUG-2006 06:32:20	Bright	40.000	142	49Del Cap	2.8500	8900.0	80	23478	No
58	GOM_TRA_1PNPDE20060827_063532_000000332050_00378_23478_1098.N1	27-AUG-2006 06:35:32	Bright	32.500	154	22Bet Aqr	2.8990	5700.0	65	23478	No
59	GOM_TRA_1PNPDE20060827_064655_000000322050_00378_23478_1099.N1	27-AUG-2006 06:46:55	Bright	32.000	92	53Eps Cyg	2.5000	4500.0	64	23478	Yes
60	GOM_TRA_1PNPDE20060827_064843_000000302050_00378_23478_1100.N1	27-AUG-2006 06:48:43	Bright	30.000	66	37Gam Cyg	2.2080	5900.0	60	23478	Yes
61	GOM_TRA_1PNPDE20060827_194759_000000452050_00386_23486_1086.N1	27-AUG-2006 19:47:59	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	23486	No
62	GOM_TRA_1PNPDE20060827_195050_000000392050_00386_23486_1087.N1	27-AUG-2006 19:50:50	Straylight	38.500	172	Gam Gru	3.0030	13100.	77	23486	No
63	GOM_TRA_1PNPDE20060827_195702_000000532050_00386_23486_1088.N1	27-AUG-2006 19:57:02	Bright	53.000	142	49Del Cap	2.8500	8900.0	106	23486	No
64	GOM_TRA_1PNPDE20060827_200013_000000382050_00386_23486_1089.N1	27-AUG-2006 20:00:13	Bright	37.500	154	22Bet Aqr	2.8990	5700.0	75	23486	No
65	GOM_TRA_1PNPDE20060827_200451_000000402050_00386_23486_1090.N1	27-AUG-2006 20:04:51	Bright	40.000	61	8Eps Peg	2.1000	3900.0	80	23486	No
66	GOM_TRA_1PNPDE20060827_201137_000000372050_00386_23486_1091.N1	27-AUG-2006 20:11:37	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	23486	No
67	GOM_TRA_1PNPDE20060827_201325_000000372050_00386_23486_1092.N1	27-AUG-2006 20:13:25	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	23486	No
68	GOM_TRA_1PNPDE20060827_201448_000000372050_00386_23486_1093.N1	27-AUG-2006 20:14:48	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	23486	No
69	GOM_TRA_1PNPDE20060827_201954_000000362050_00386_23486_1094.N1	27-AUG-2006 20:19:54	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	23486	No
70	GOM_TRA_1PNPDE20060827_202726_000000362050_00386_23486_1095.N1	27-AUG-2006 20:27:26	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23486	No
71	GOM_TRA_1PNPDE20060827_204414_000000352050_00386_23486_1096.N1	27-AUG-2006 20:44:14	Bright	34.500	24	66Alp Gem	1.5800	10200.	69	23486	No
72	GOM_TRA_1PNPDE20060827_204648_000000462050_00386_23486_1097.N1	27-AUG-2006 20:46:48	Bright	46.000	170	27Eps Gem	3.0000	9700.0	92	23486	No
73	GOM_TRA_1PNPDE20060827_205148_000000432050_00386_23486_1098.N1	27-AUG-2006 20:51:48	Twilight	43.000	8	10Alp CMi	0.40000	6500.0	86	23486	No
74	GOM_TRA_1PNPDE20060827_205909_000000472050_00386_23486_1087.N1	27-AUG-2006 20:59:09	Dark	46.500	1	9Alp CMa	-1.4400	11000.	93	23486	No
75	GOM_TRA_1PNPDE20060827_210032_000000382050_00386_23486_1088.N1	27-AUG-2006 21:00:32	Dark	38.000	179	24Omi2CMa	3.0320	24000.	76	23486	No
76	GOM_TRA_1PNPDE20060827_210201_000000402050_00386_23486_1089.N1	27-AUG-2006 21:02:01	Dark	40.000	23	21Eps CMa	1.5020	26000.	80	23486	No
77	GOM_TRA_1PNPDE20060827_210330_000000402050_00386_23486_1090.N1	27-AUG-2006 21:03:30	Dark	40.000	177	1Zet CMa	3.0220	26000.	80	23486	No
78	GOM_TRA_1PNPDE20060827_210849_000000522050_00386_23486_1091.N1	27-AUG-2006 21:08:49	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	23486	No
79	GOM_TRA_1PNPDE20060827_212012_000000442050_00387_23487_1092.N1	27-AUG-2006 21:20:12	Dark	43.500	9	Alp Eri	0.45300	24000.	87	23487	No
80	GOM_TRA_1PNPDE20060827_212835_000000382050_00387_23487_1093.N1	27-AUG-2006 21:28:35	Straylight	38.000	31	Alp Gru	1.7340	15200.	76	23487	No
81	GOM_TRA_1PNPDE20060827_213126_000000392050_00387_23487_1094.N1	27-AUG-2006 21:31:26	Straylight	39.000	172	Gam Gru	3.0030	13100.	78	23487	No
82	GOM_TRA_1PNPDE20060827_213738_000000502050_00387_23487_1095.N1	27-AUG-2006 21:37:38	Bright	49.500	142	49Del Cap	2.8500	8900.0	99	23487	No
83	GOM_TRA_1PNPDE20060827_214049_000000392050_00387_23487_1096.N1	27-AUG-2006 21:40:49	Bright	38.500	154	22Bet Aqr	2.8990	5700.0	77	23487	No
84	GOM_TRA_1PNPDE20060827_214527_000000392050_00387_23487_1097.N1	27-AUG-2006 21:45:27	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	23487	No
85	GOM_TRA_1PNPDE20060827_215213_000000362050_00387_23487_1098.N1	27-AUG-2006 21:52:13	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	23487	No
86	GOM_TRA_1PNPDE20060827_215401_000000342050_00387_23487_1099.N1	27-AUG-2006 21:54:01	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	23487	No
87	GOM_TRA_1PNPDE20060827_215524_000000372050_00387_23487_1100.N1	27-AUG-2006 21:55:24	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	23487	No
88	GOM_TRA_1PNPDE20060827_220029_000000532050_00387_23487_1101.N1	27-AUG-2006 22:00:29	Bright	52.500	89	5Alp Cep	2.4510	8000.0	105	23487	No
89	GOM_TRA_1PNPDE20060827_220802_000000372050_00387_23487_1102.N1	27-AUG-2006 22:08:02	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	23487	No
90	GOM_TRA_1PNPDE20060827_222450_000000362050_00387_23487_1103.N1	27-AUG-2006 22:24:50	Bright	35.500	24	66Alp Gem	1.5800	10200.	71	23487	No
91	GOM_TRA_1PNPDE20060827_222725_000000462050_00387_23487_1104.N1	27-AUG-2006 22:27:25	Bright	46.000	170	27Eps Gem	3.0000	9700.0	92	23487	No

3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



4. Overview of dark signal processing per product

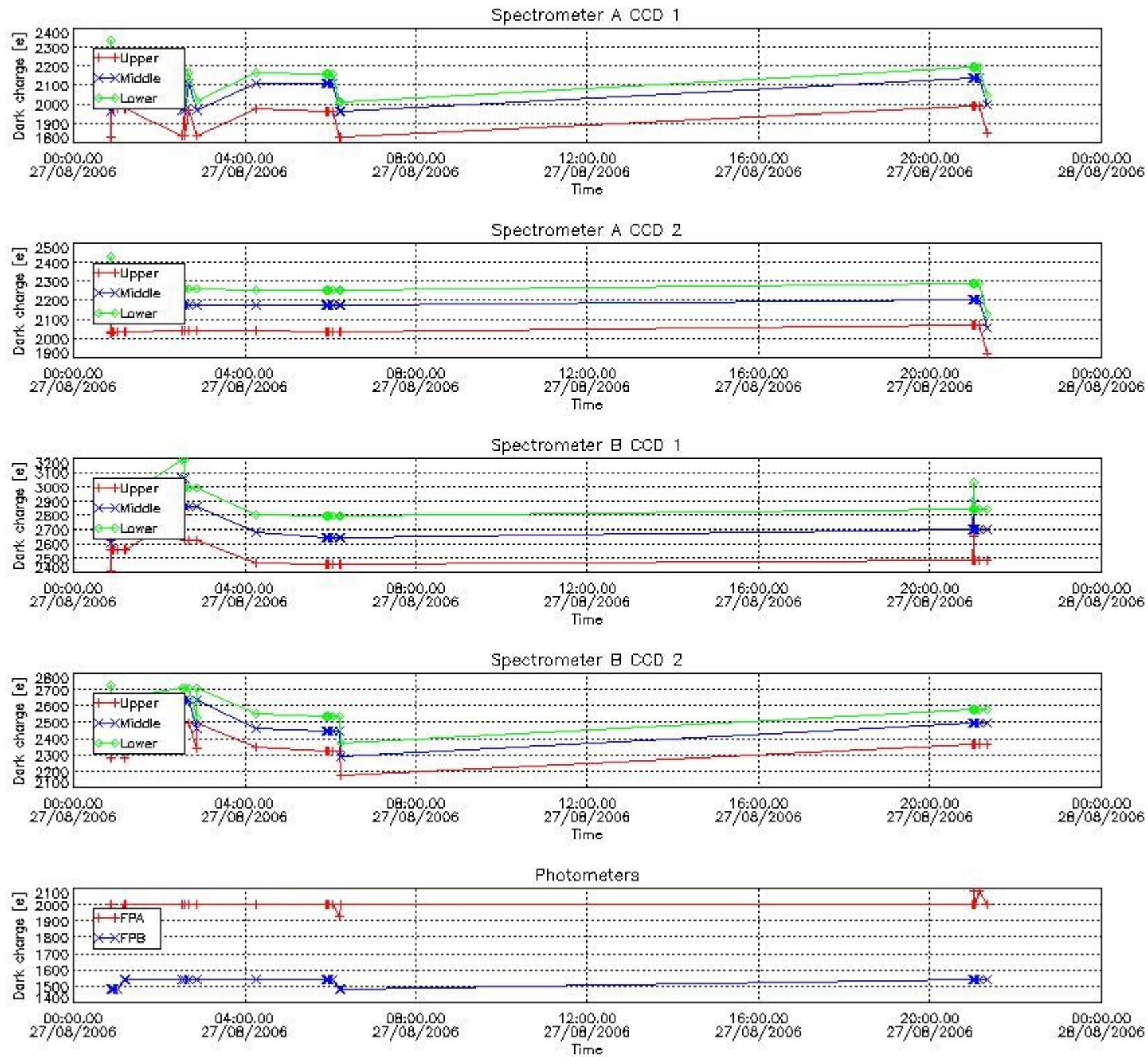
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20060827_020057_000000282050_00375_23475_1096.N1	DC map used
GOM_TRA_1PNPDE20060827_194759_000000452050_00386_23486_1086.N1	DC map used
GOM_TRA_1PNPDE20060827_195050_000000392050_00386_23486_1087.N1	DC map used
GOM_TRA_1PNPDE20060827_195702_000000532050_00386_23486_1088.N1	DC map used
GOM_TRA_1PNPDE20060827_200013_000000382050_00386_23486_1089.N1	DC map used
GOM_TRA_1PNPDE20060827_200451_000000402050_00386_23486_1090.N1	DC map used
GOM_TRA_1PNPDE20060827_201137_000000372050_00386_23486_1091.N1	DC map used
GOM_TRA_1PNPDE20060827_201325_000000372050_00386_23486_1092.N1	DC map used
GOM_TRA_1PNPDE20060827_201448_000000372050_00386_23486_1093.N1	DC map used
GOM_TRA_1PNPDE20060827_201954_000000362050_00386_23486_1094.N1	DC map used
GOM_TRA_1PNPDE20060827_202726_000000362050_00386_23486_1095.N1	DC map used
GOM_TRA_1PNPDE20060827_204414_000000352050_00386_23486_1096.N1	DC map used
GOM_TRA_1PNPDE20060827_204648_000000462050_00386_23486_1097.N1	DC map used
GOM_TRA_1PNPDE20060827_205148_000000432050_00386_23486_1098.N1	DC map used

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



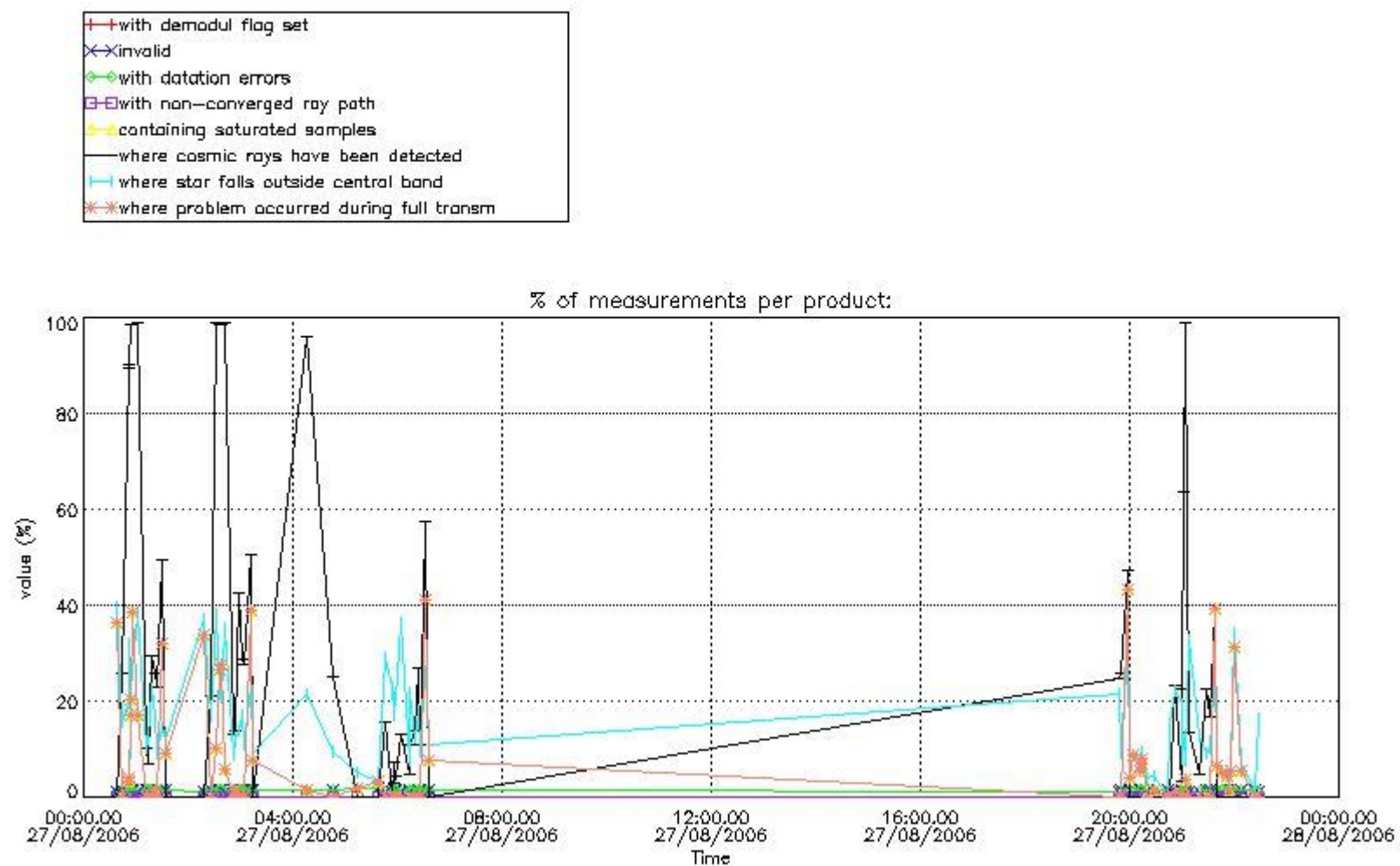
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

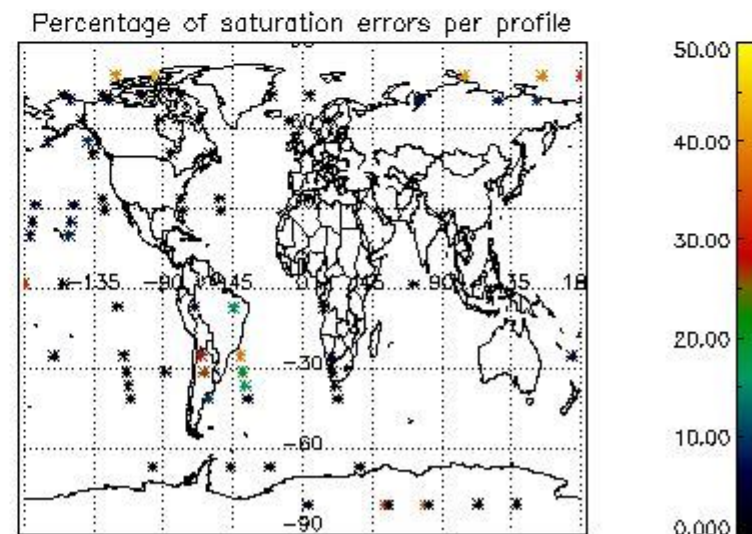
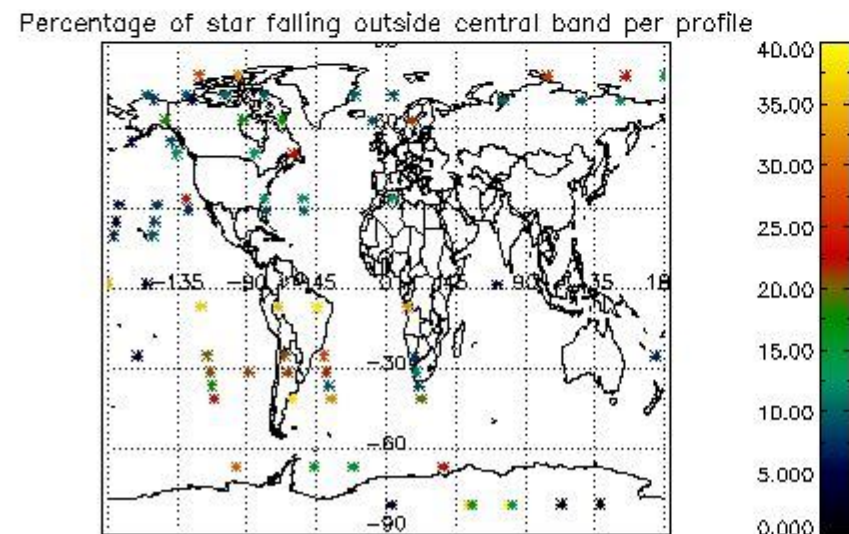
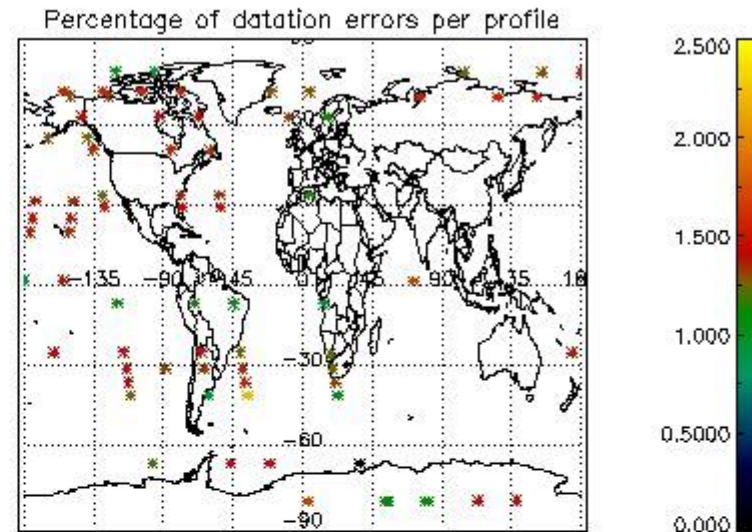
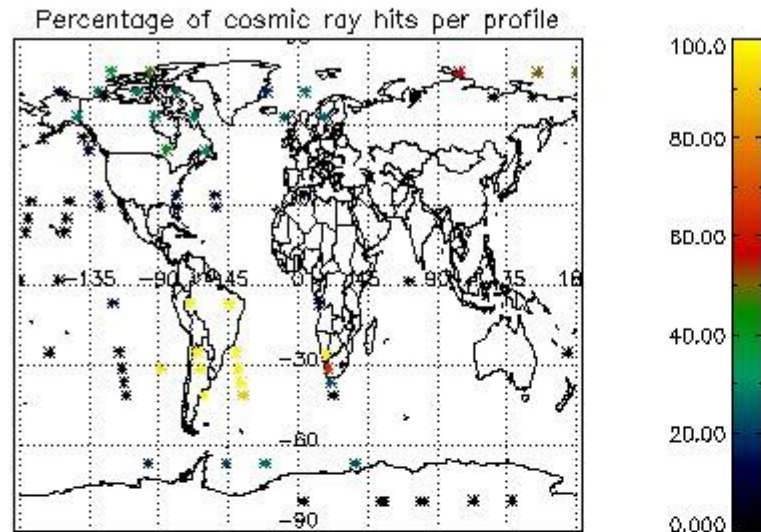
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.3158 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



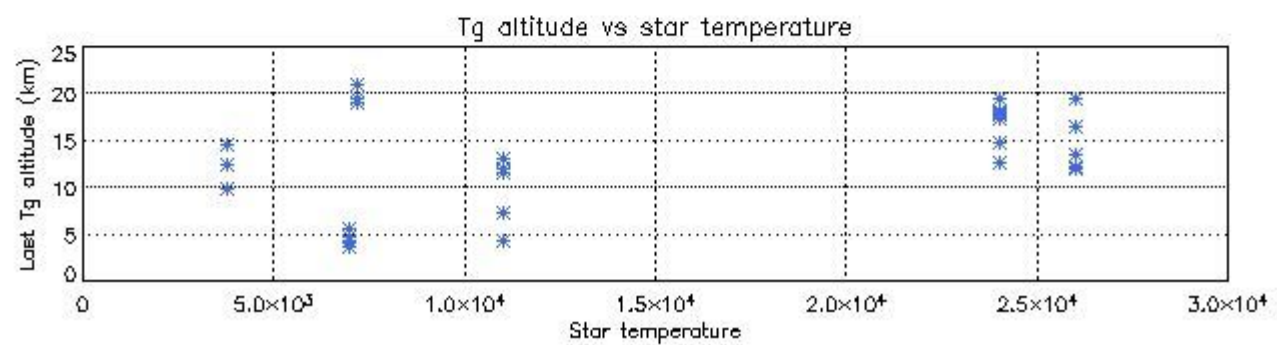
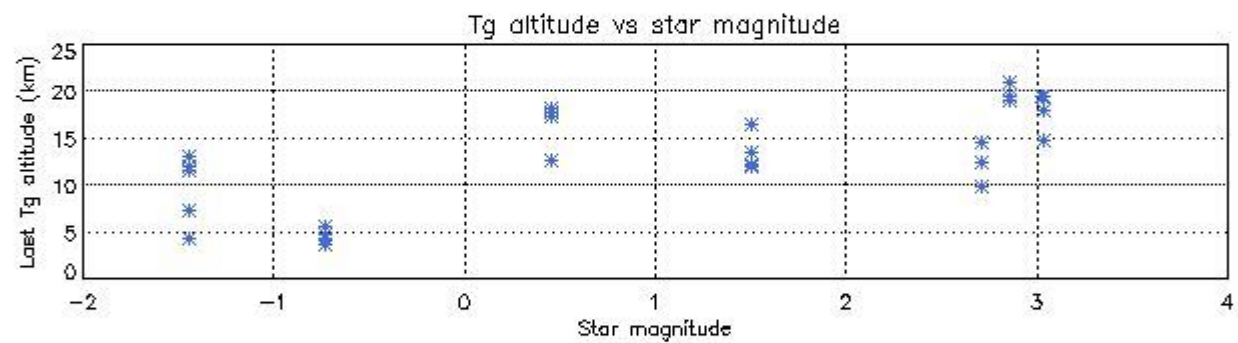
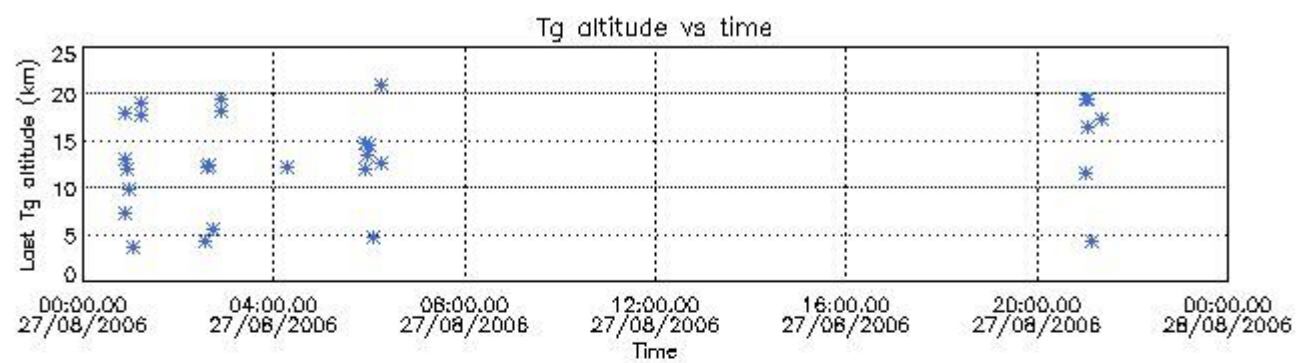
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.065	16.777	11.933
St. deviation:	5.2549	6.2634	2.5469
Maximum:	20.869	24.923	14.075
Minimum:	3.6626	3.8636	8.4444
Number of data:	28.000	30.000	4.0000

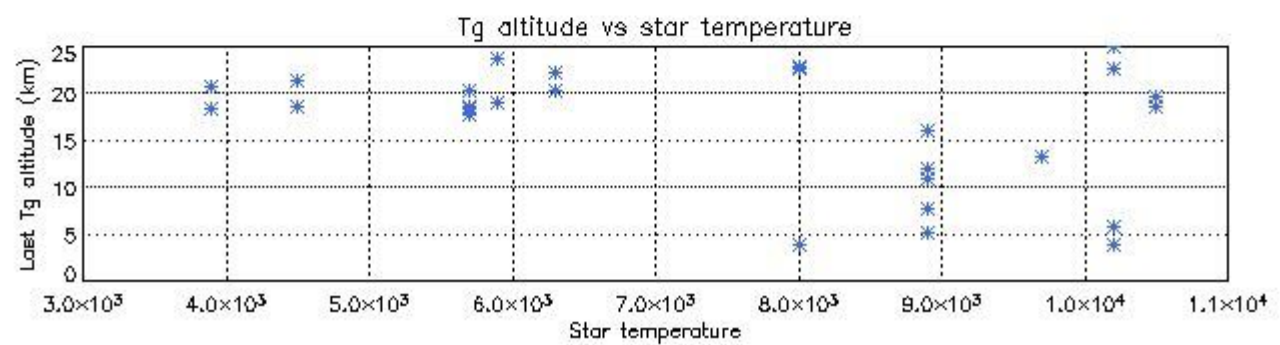
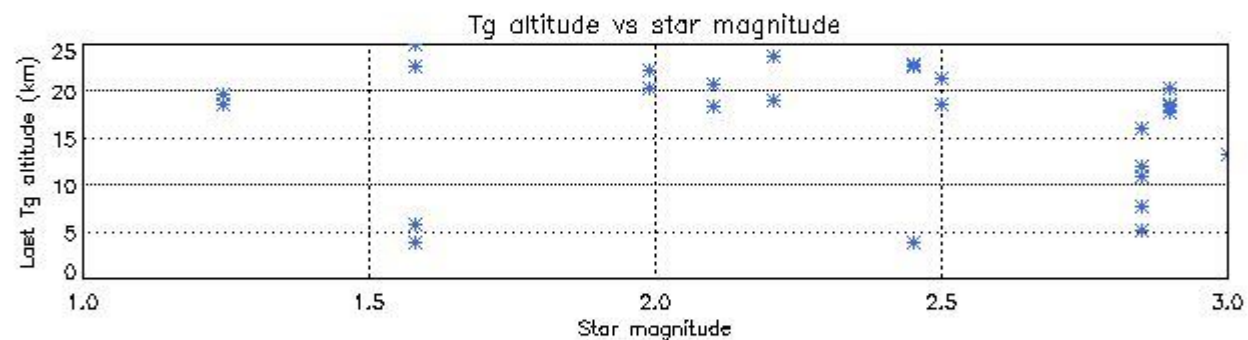
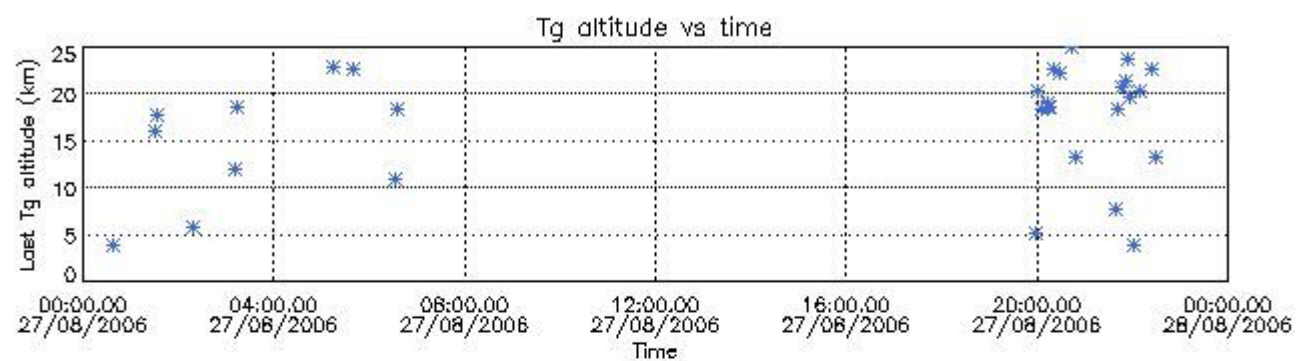
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



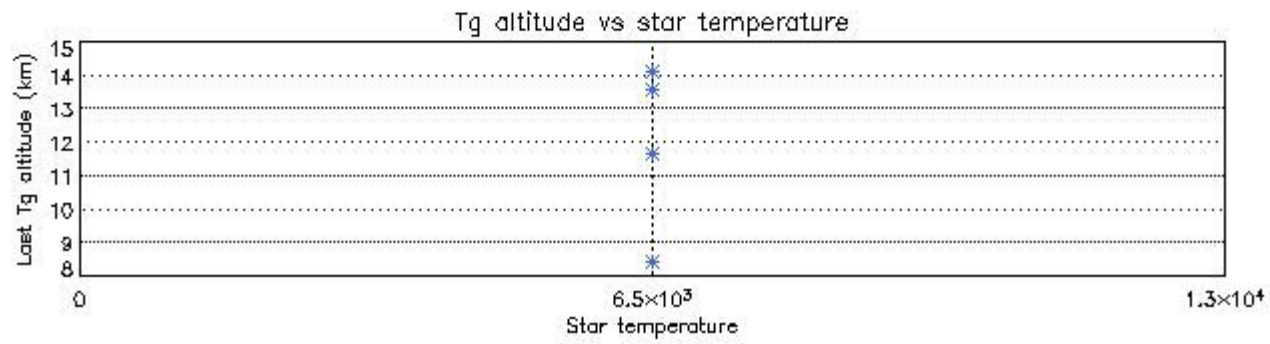
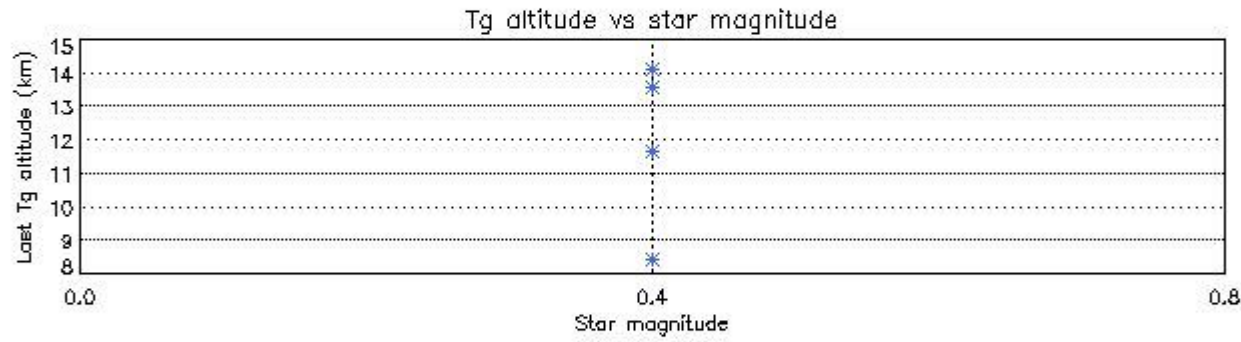
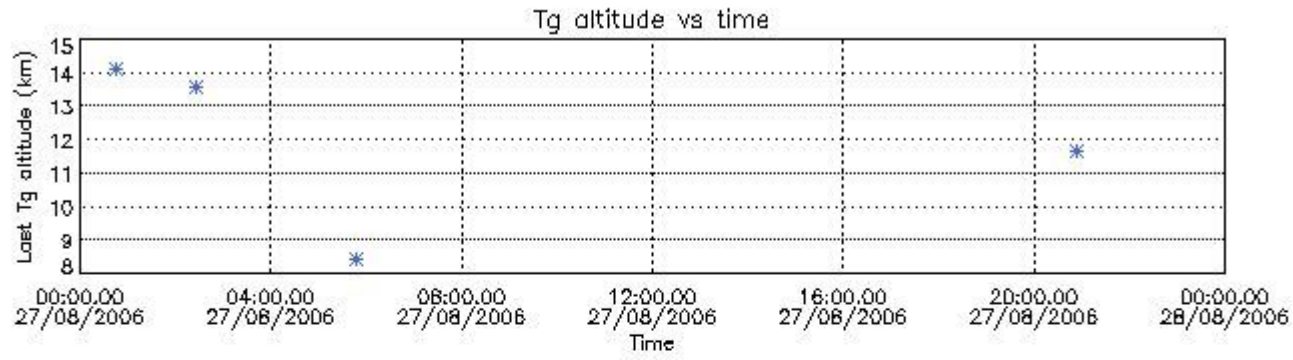
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

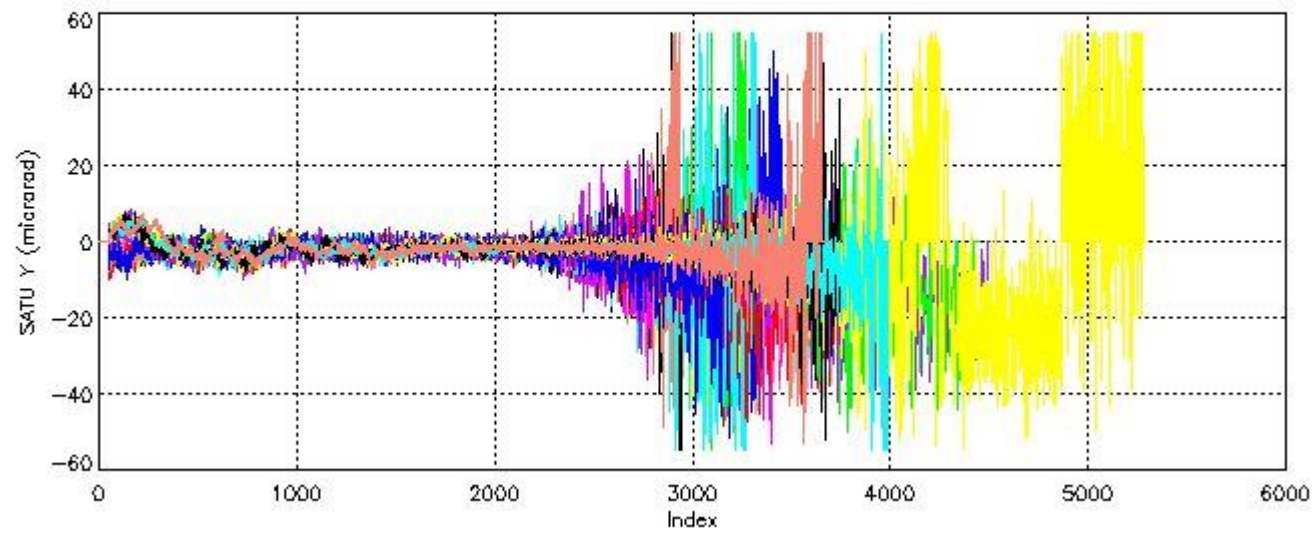
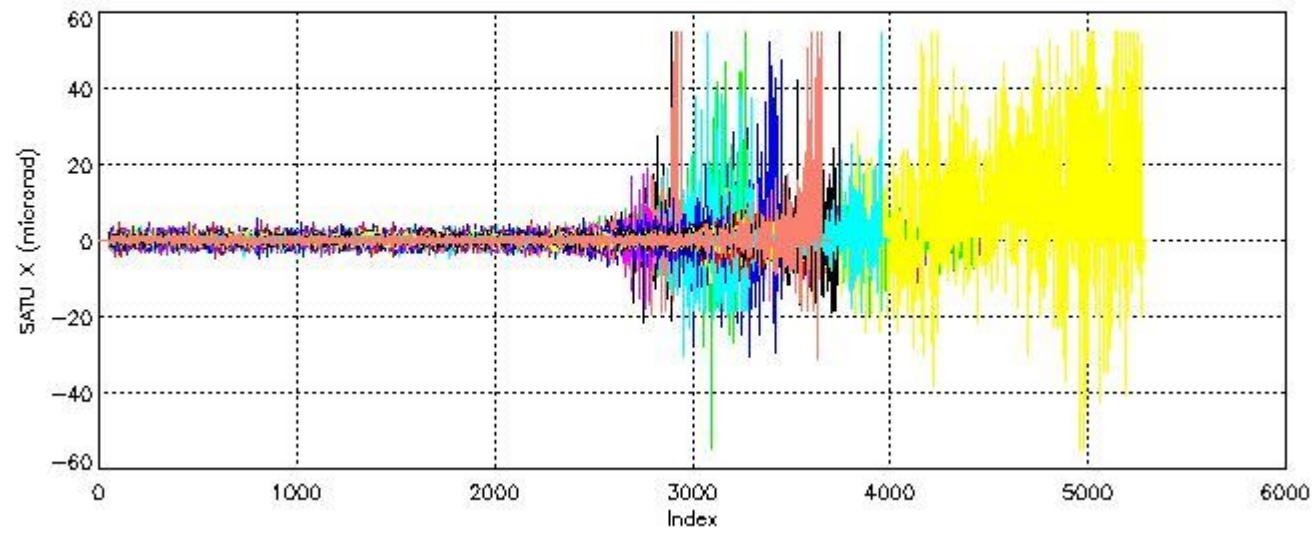


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

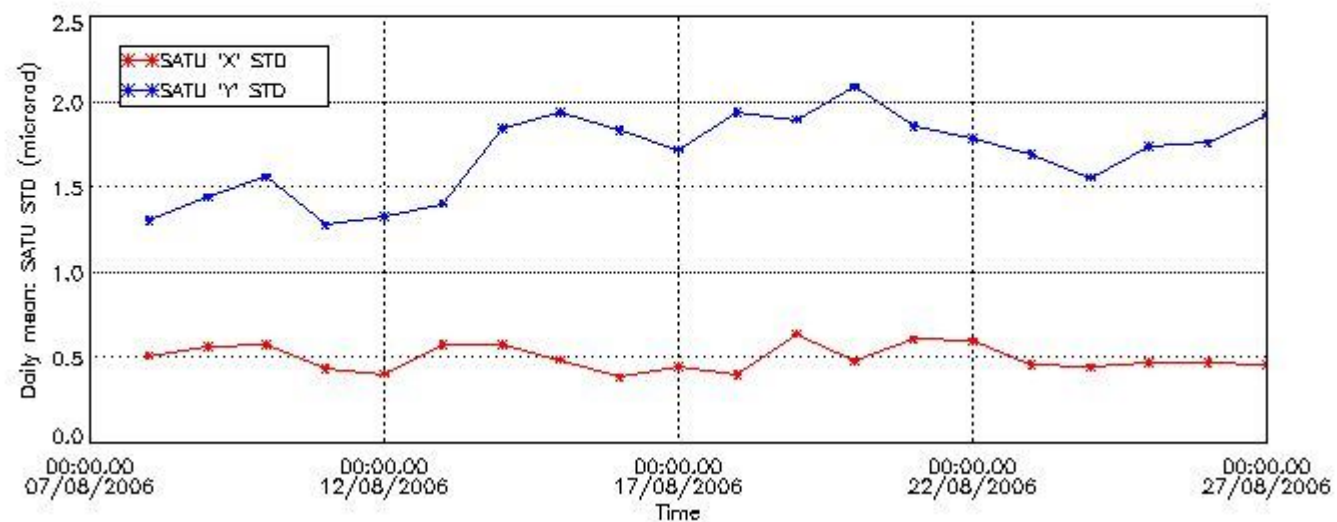
7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.070901	-1.9814	0.10686	-1.6377
St. deviation:	0.46021	1.9232	0.63605	2.4985
Maximum:	4.8000	8.3000	3.7000	8.0000
Minimum:	-0.40000	-5.7000	-1.7000	-7.7000

Number of data:	12750.	12750.	19750.	19750.
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7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

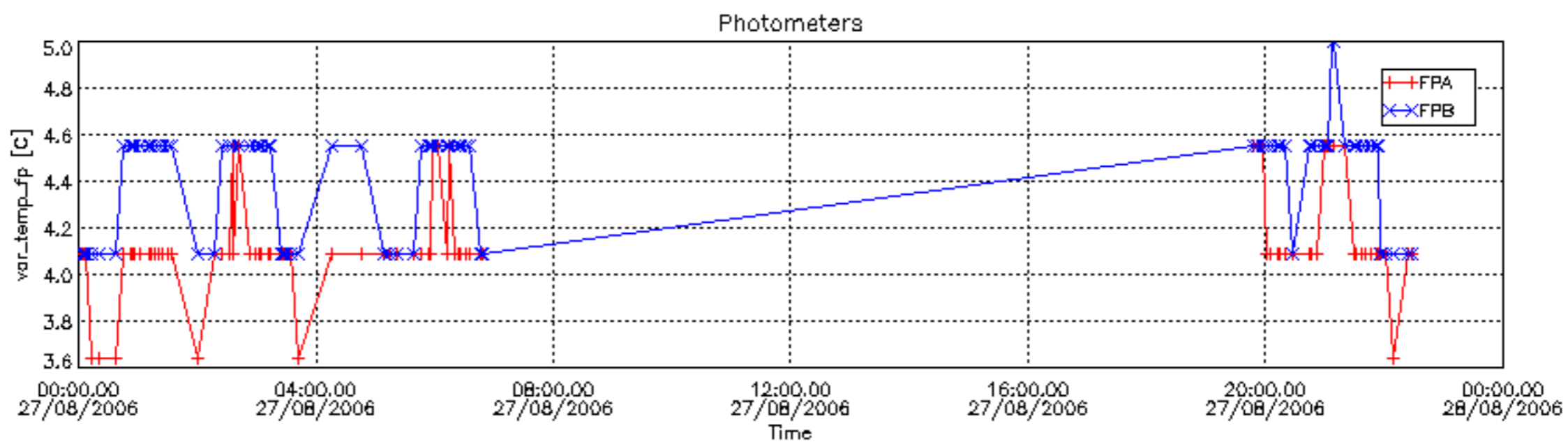
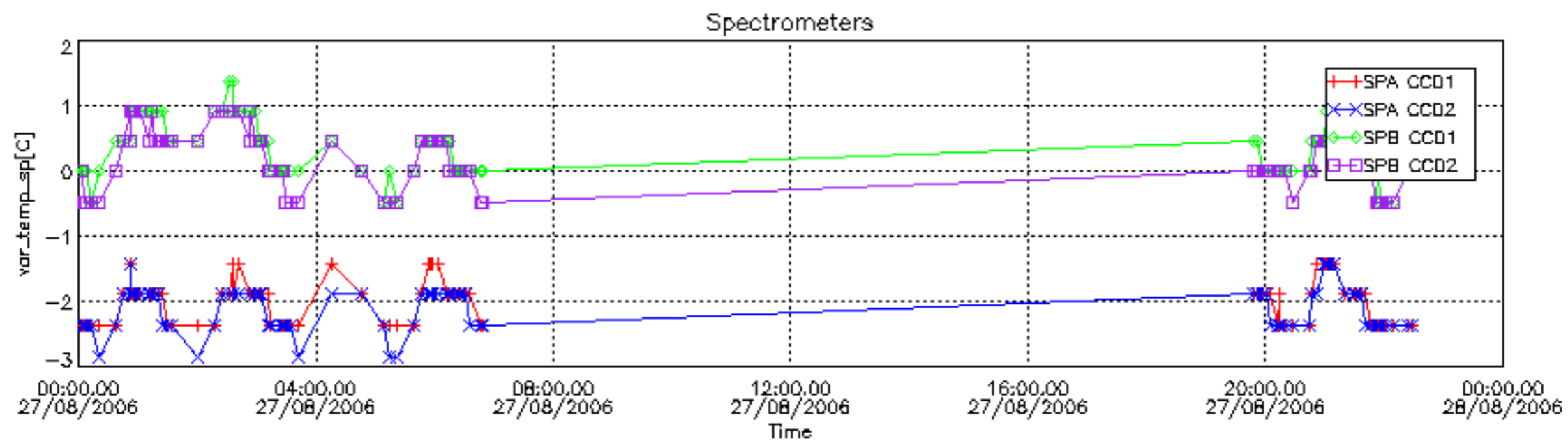
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

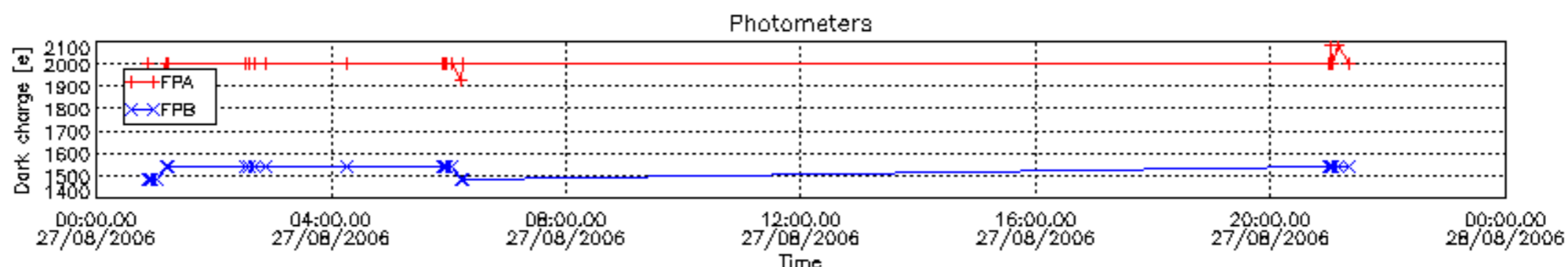
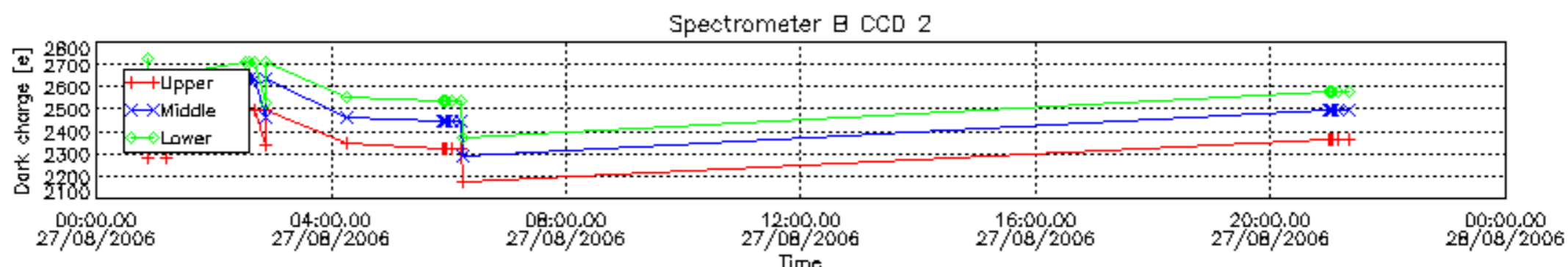
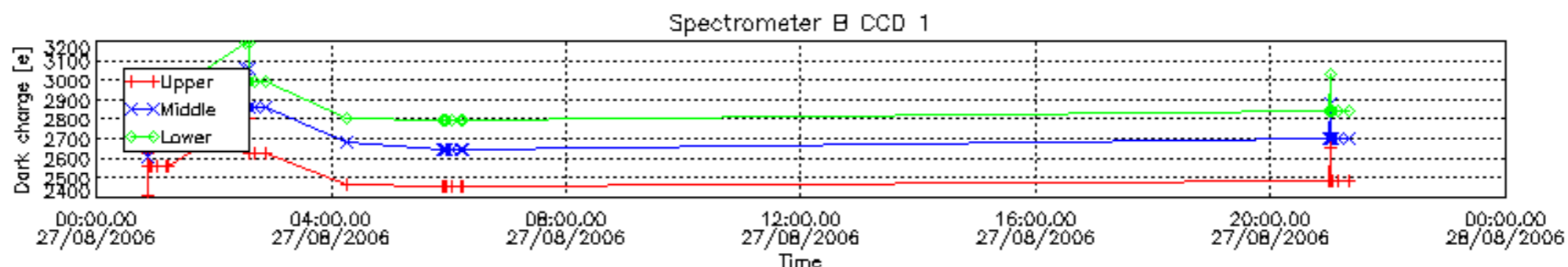
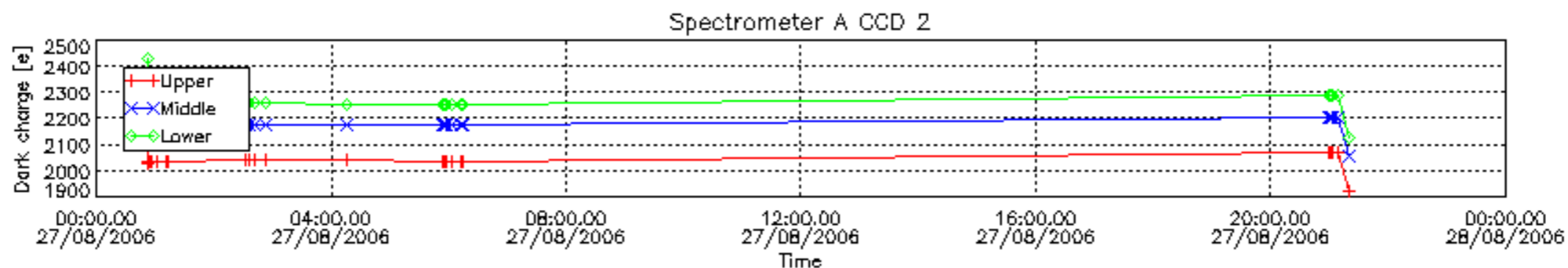
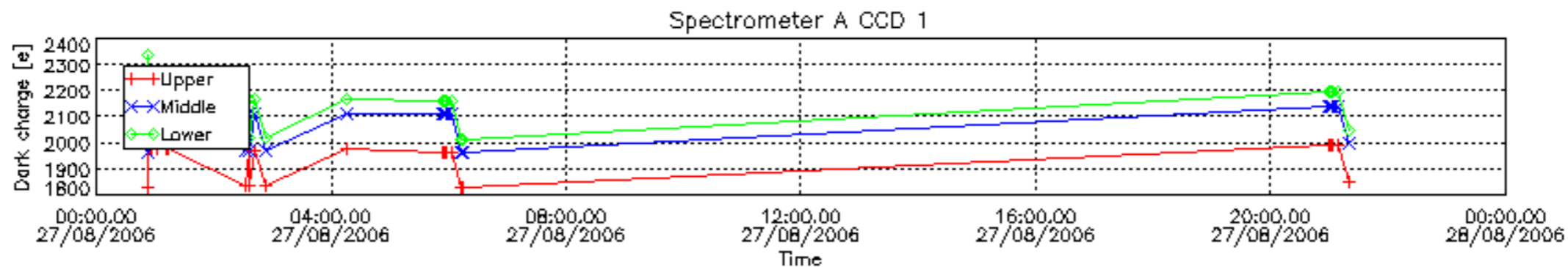


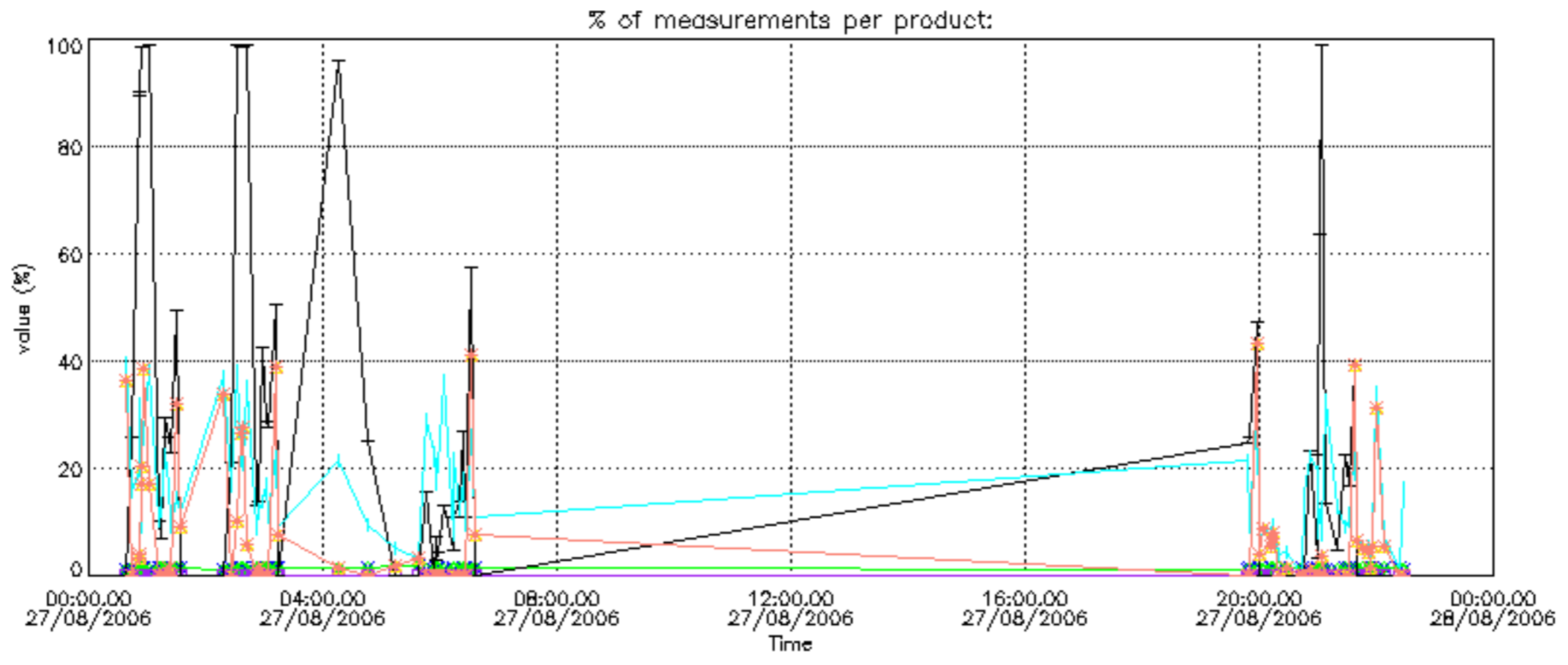
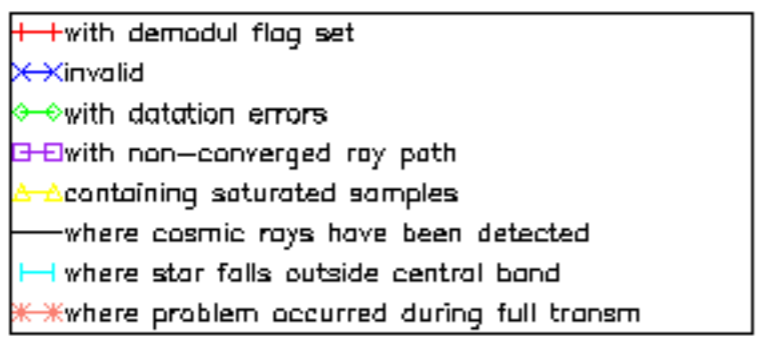
8. Auxiliary Data Files used for the production reported in section 2.2

The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

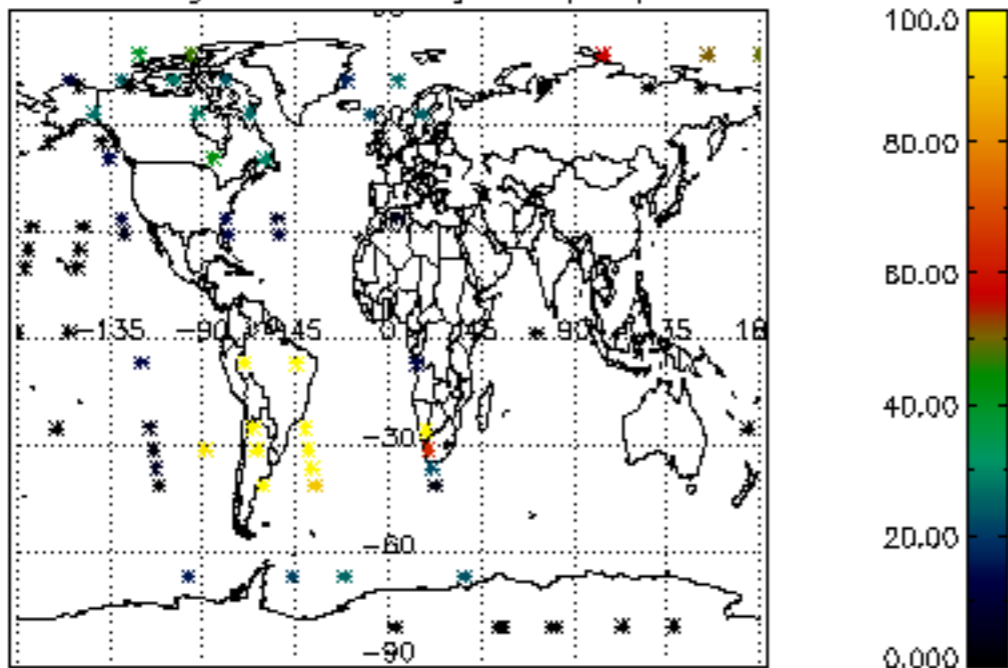
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	27-AUG-2006 00:04:32
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060825_091604_20060823_000000_20100101_000000	1	27-AUG-2006 00:04:32
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	27-AUG-2006 00:04:32
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-AUG-2006 00:04:32
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	27-AUG-2006 00:04:32
ECMWF_FILE	AUX_ECF_AXNECM20060826_062419_20060826_210000_20060827_090000	1	27-AUG-2006 00:04:32
ECMWF_FILE	AUX_ECA_AXNECM20060827_102405_20060826_210000_20060827_090000	9	27-AUG-2006 00:51:58
ECMWF_FILE	AUX_ECF_AXNECM20060826_062419_20060826_210000_20060827_090000	11	27-AUG-2006 00:54:50
ECMWF_FILE	AUX_ECA_AXNECM20060827_102405_20060826_210000_20060827_090000	12	27-AUG-2006 00:56:34
ECMWF_FILE	AUX_ECF_AXNECM20060826_062419_20060826_210000_20060827_090000	13	27-AUG-2006 01:01:39
ECMWF_FILE	AUX_ECA_AXNECM20060827_102405_20060826_210000_20060827_090000	22	27-AUG-2006 02:17:43
ECMWF_FILE	AUX_ECF_AXNECM20060826_062419_20060826_210000_20060827_090000	40	27-AUG-2006 04:16:03
ECMWF_FILE	AUX_ECA_AXNECM20060827_180338_20060827_030000_20060827_150000	45	27-AUG-2006 05:38:55
ECMWF_FILE	AUX_ECF_AXNECM20060827_103730_20060827_150000_20060828_030000	61	27-AUG-2006 19:47:59
OPTIONAL_ECMWF_FILE	MISSING	1	27-AUG-2006 00:04:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060826_212633_000057382050_00372_23472_0430.N1	1	27-AUG-2006 00:04:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060827_004827_000041442050_00374_23474_0432.N1	9	27-AUG-2006 00:51:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060826_230730_000057382050_00373_23473_0431.N1	11	27-AUG-2006 00:54:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060827_004827_000041442050_00374_23474_0432.N1	12	27-AUG-2006 00:56:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060826_230730_000057382050_00373_23473_0431.N1	13	27-AUG-2006 01:01:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060827_015731_000060562050_00375_23475_0433.N1	21	27-AUG-2006 02:00:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060827_034347_000057382050_00376_23476_0434.N1	40	27-AUG-2006 04:16:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060827_052444_000054192050_00377_23477_0435.N1	45	27-AUG-2006 05:38:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060827_194009_000038252050_00386_23486_0436.N1	61	27-AUG-2006 19:47:59



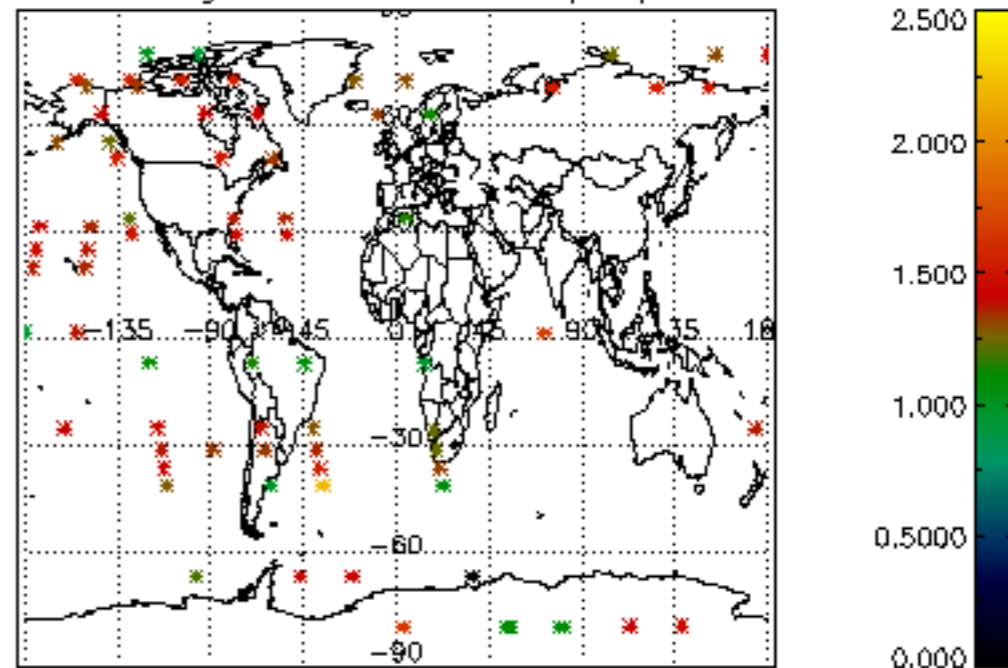




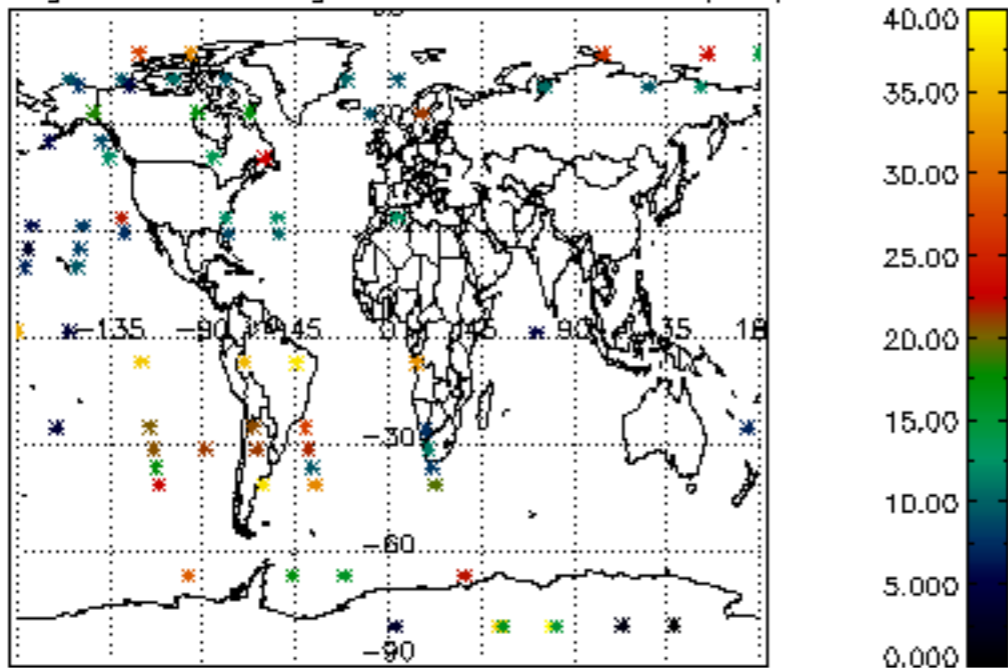
Percentage of cosmic ray hits per profile



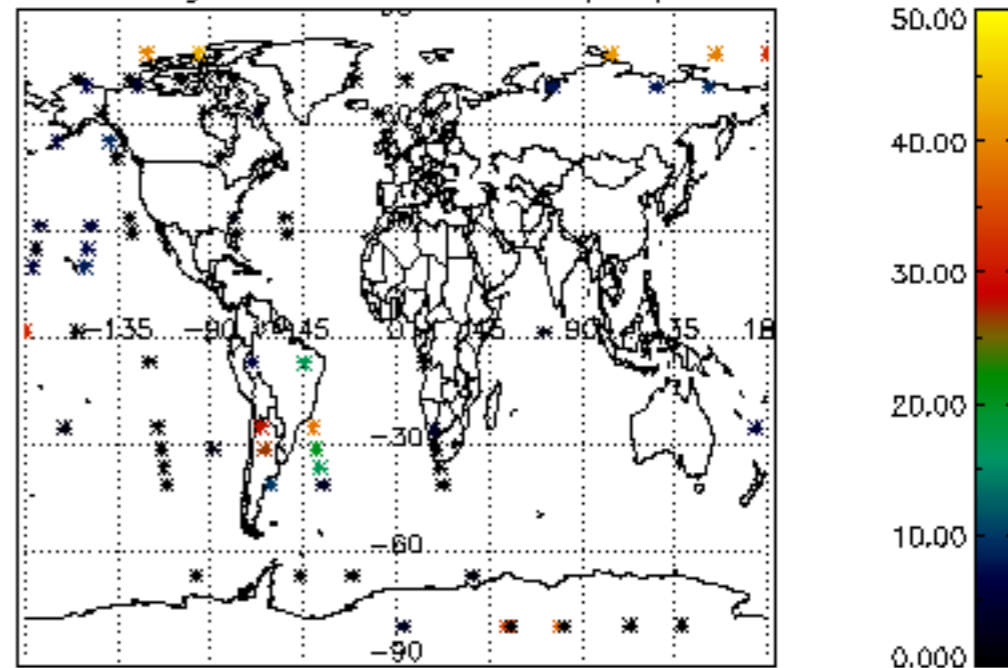
Percentage of datation errors per profile



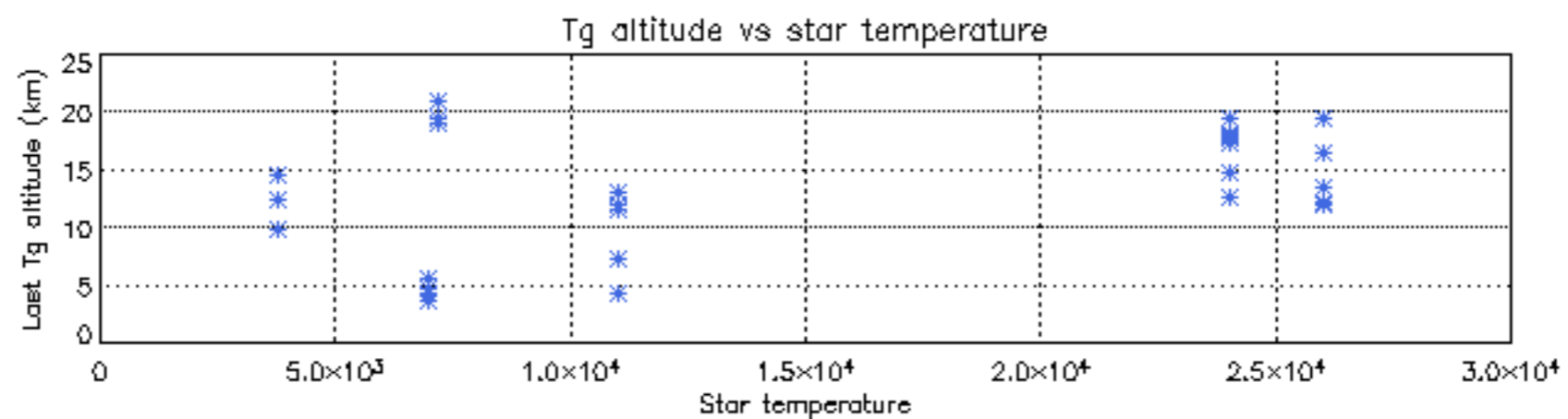
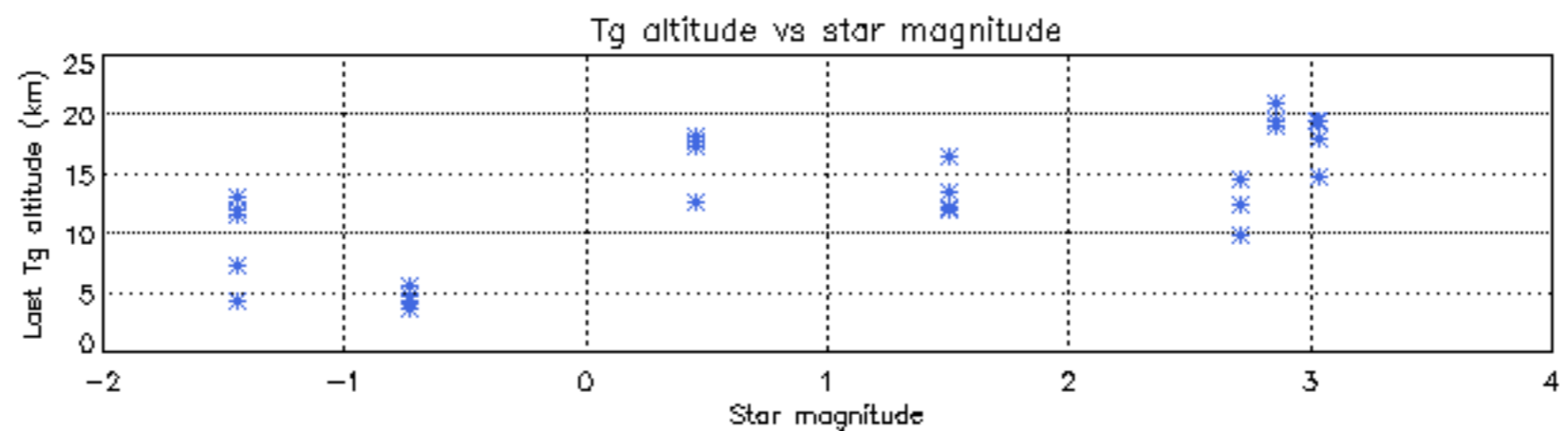
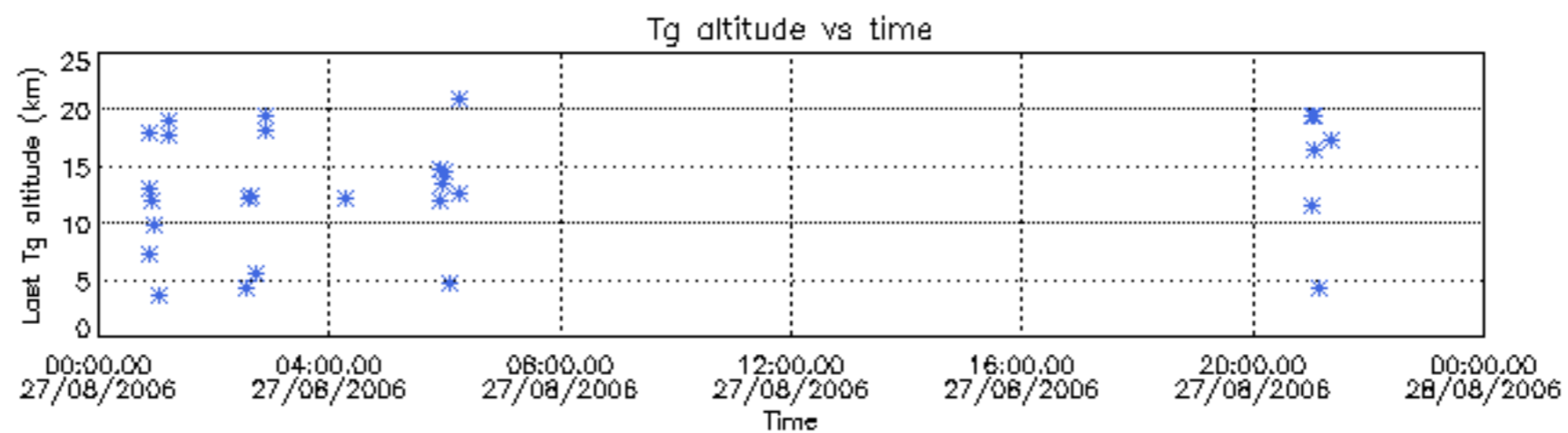
Percentage of star falling outside central band per profile



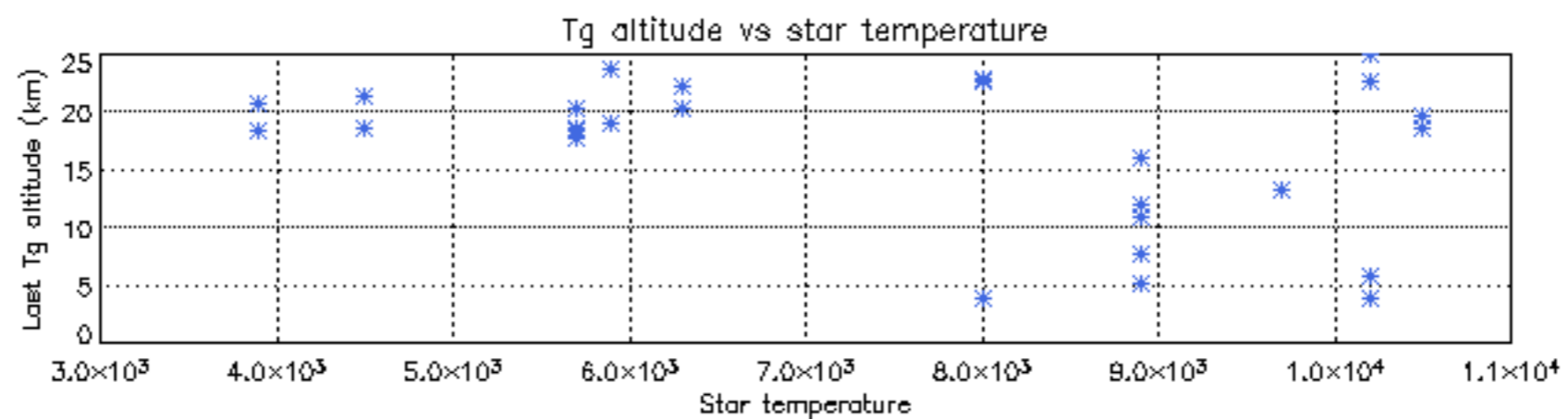
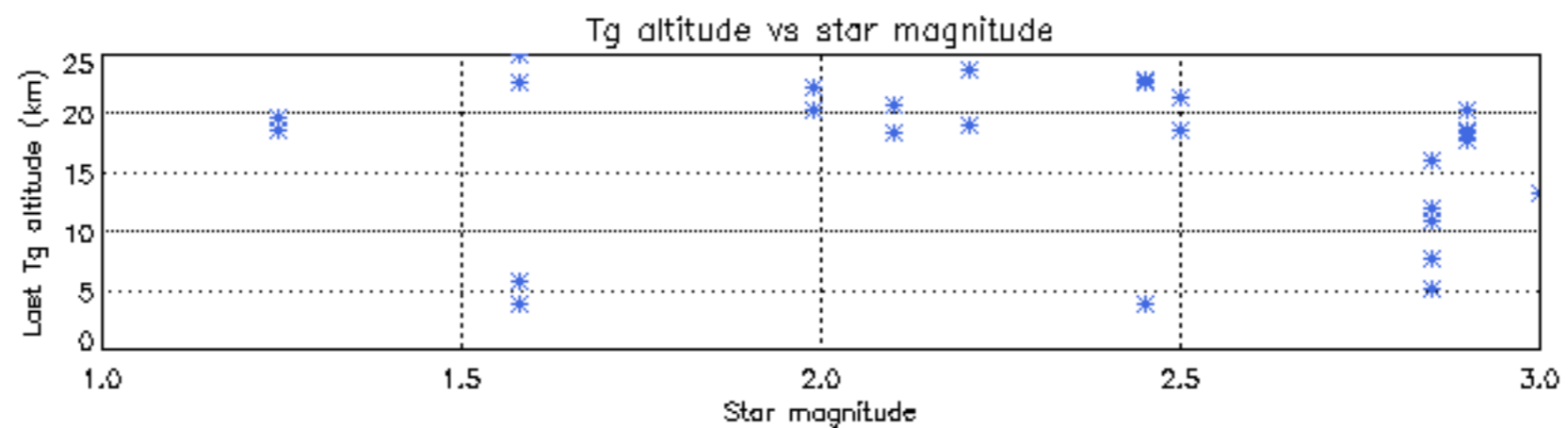
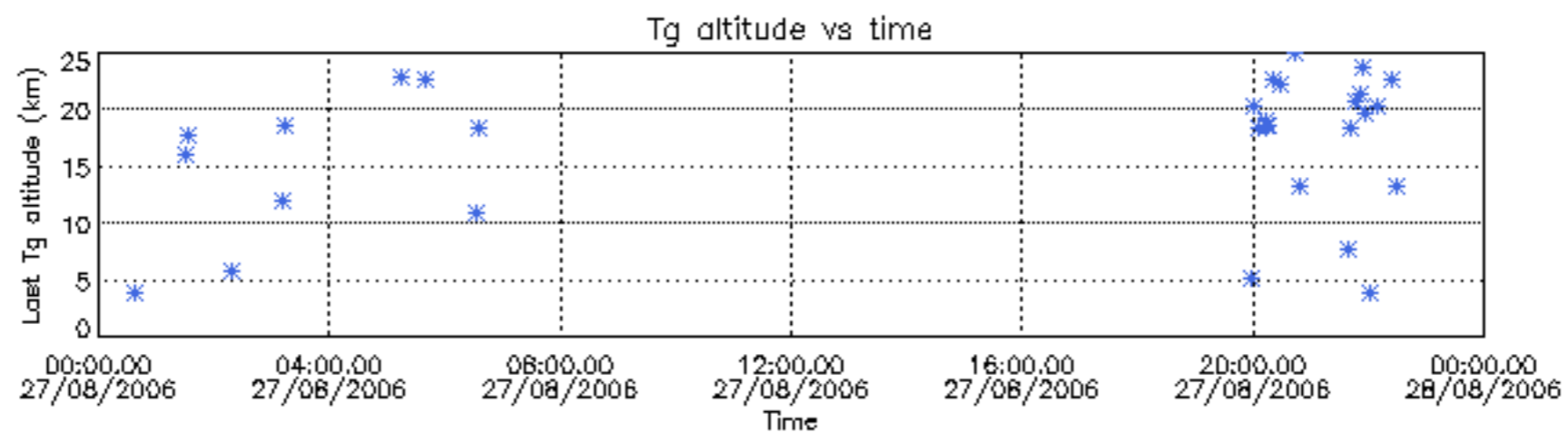
Percentage of saturation errors per profile



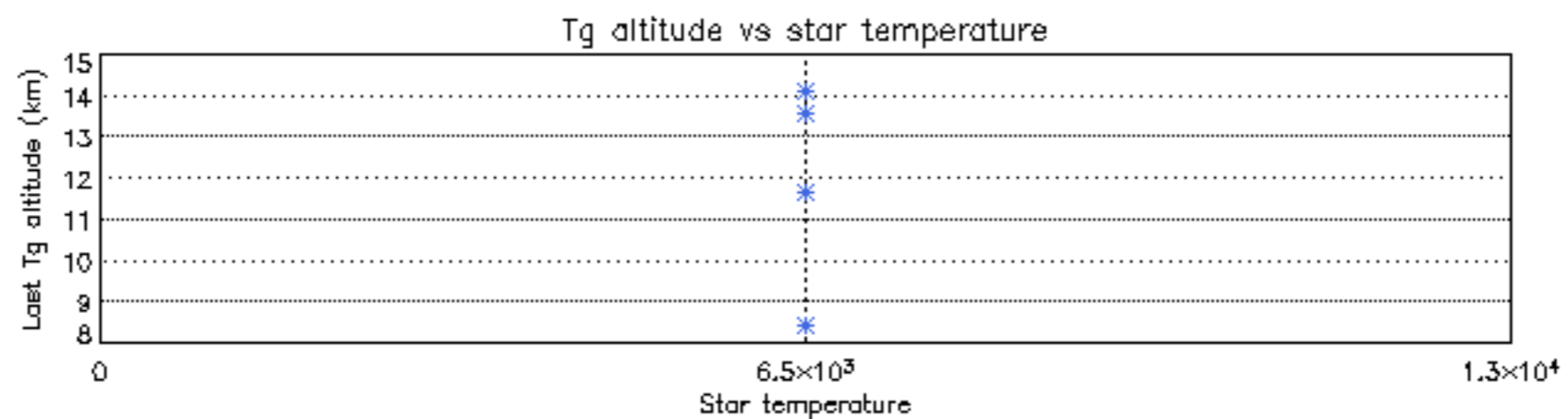
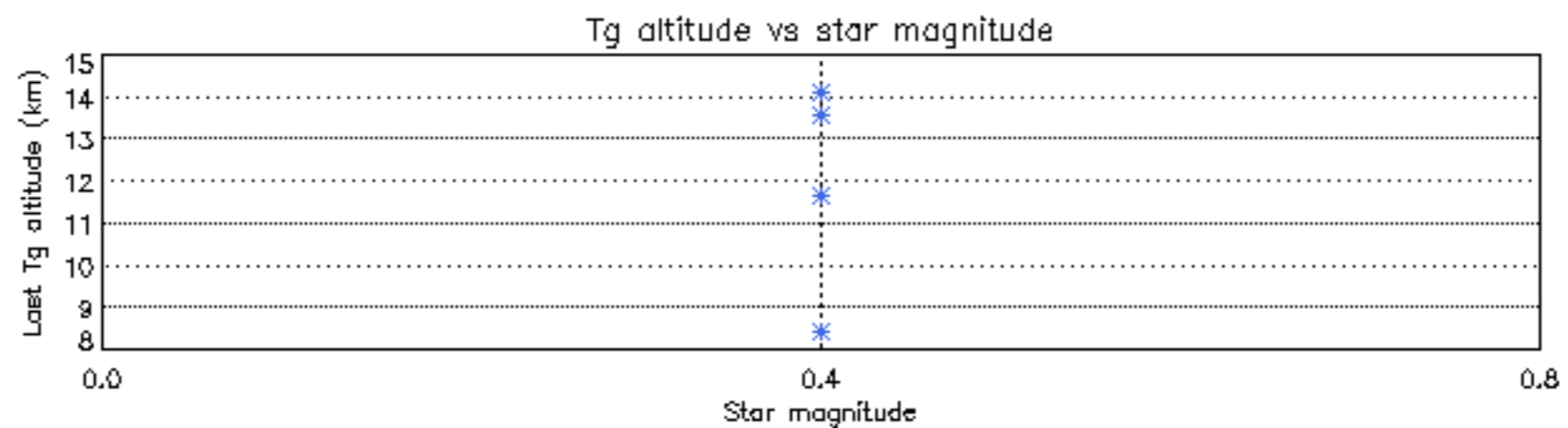
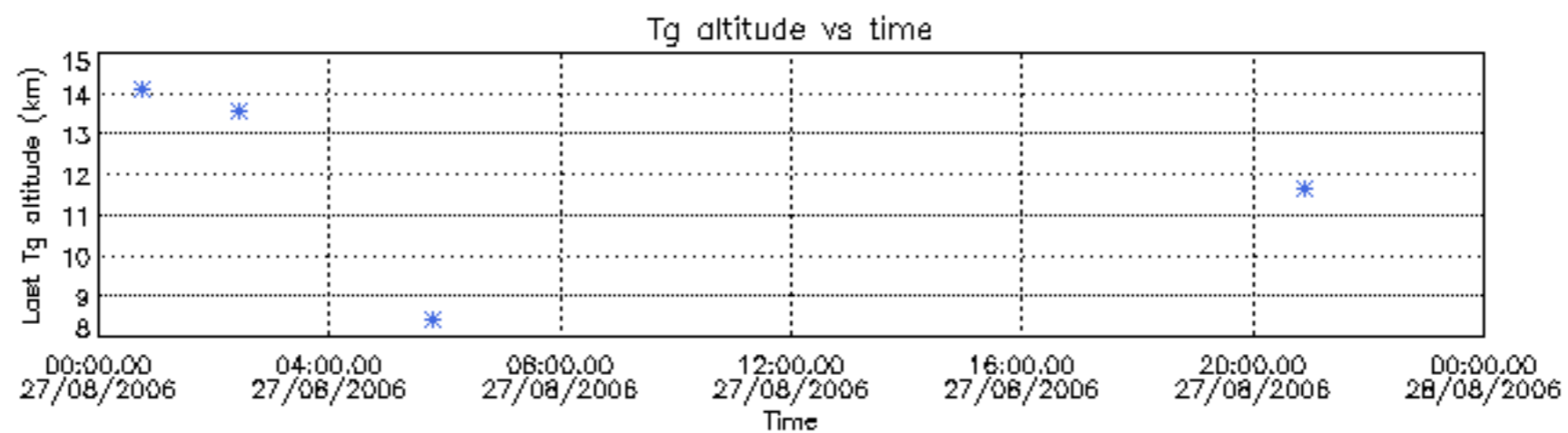
Tangent altitude at which the star is lost

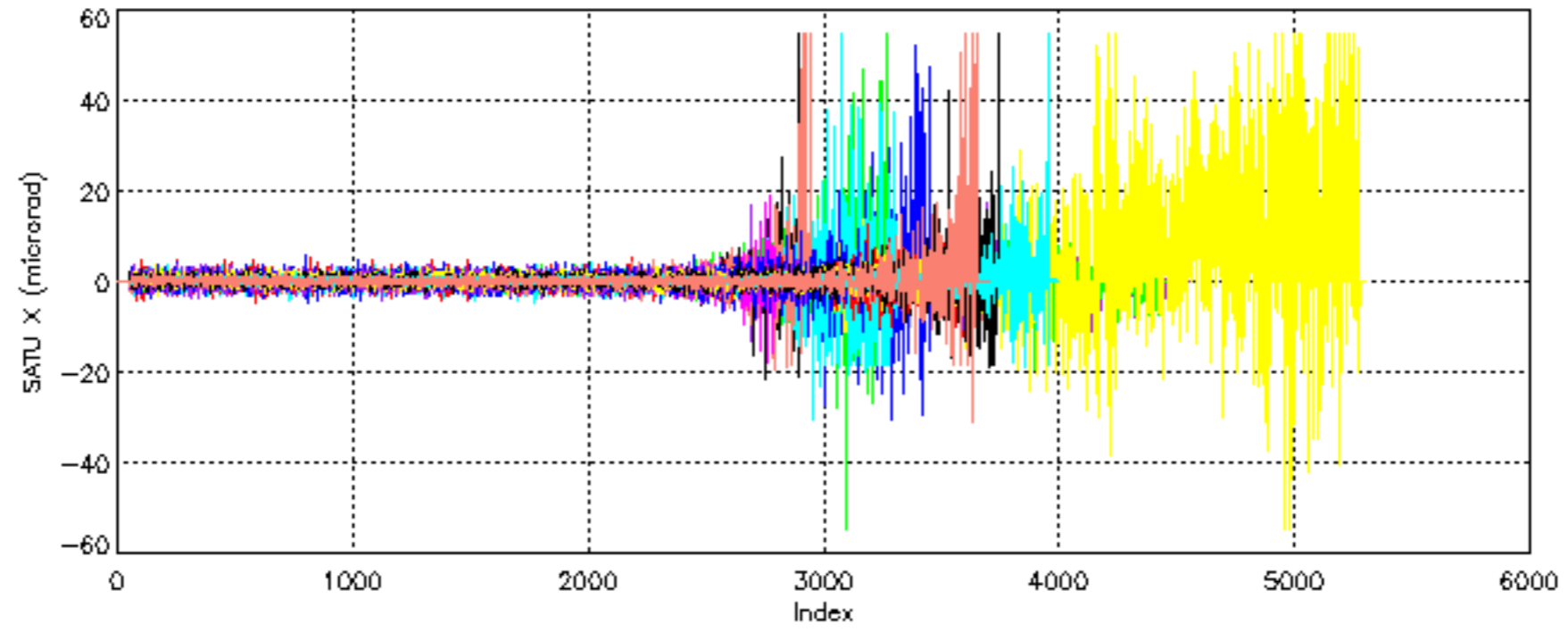


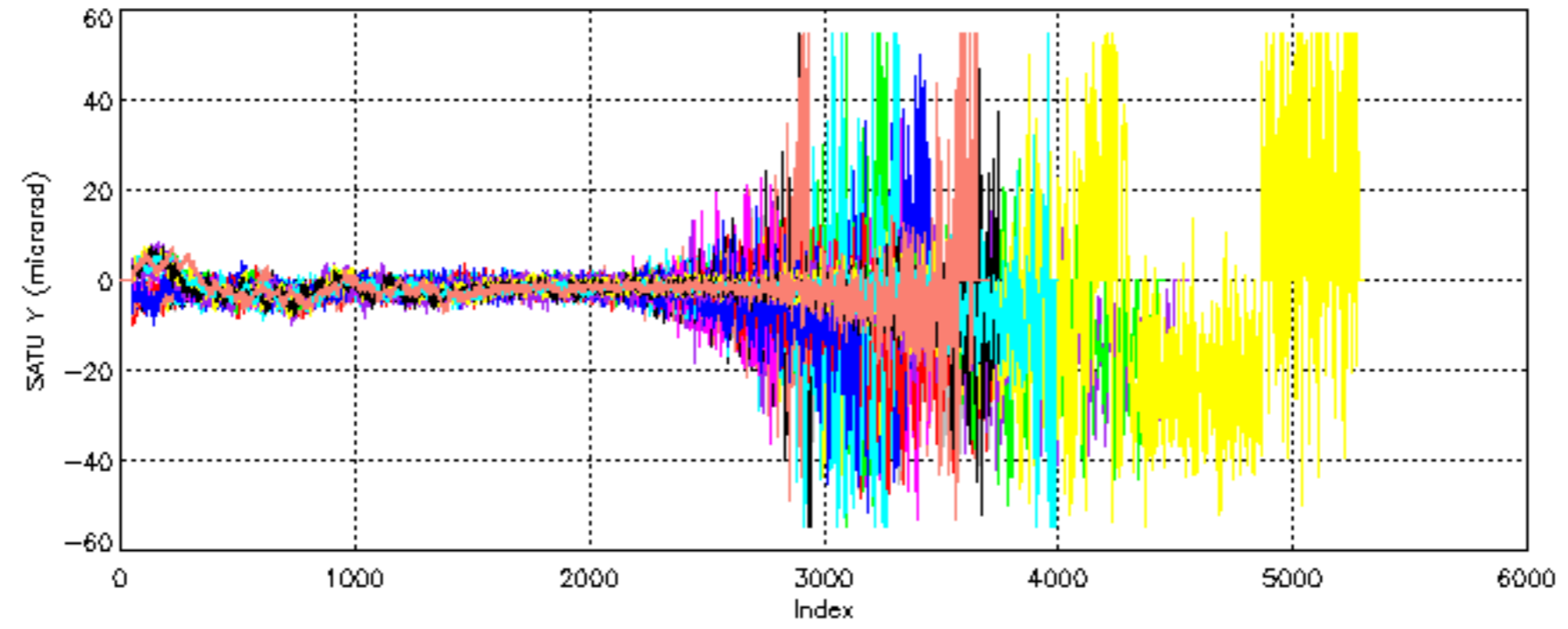
Tangent altitude at which the star is lost

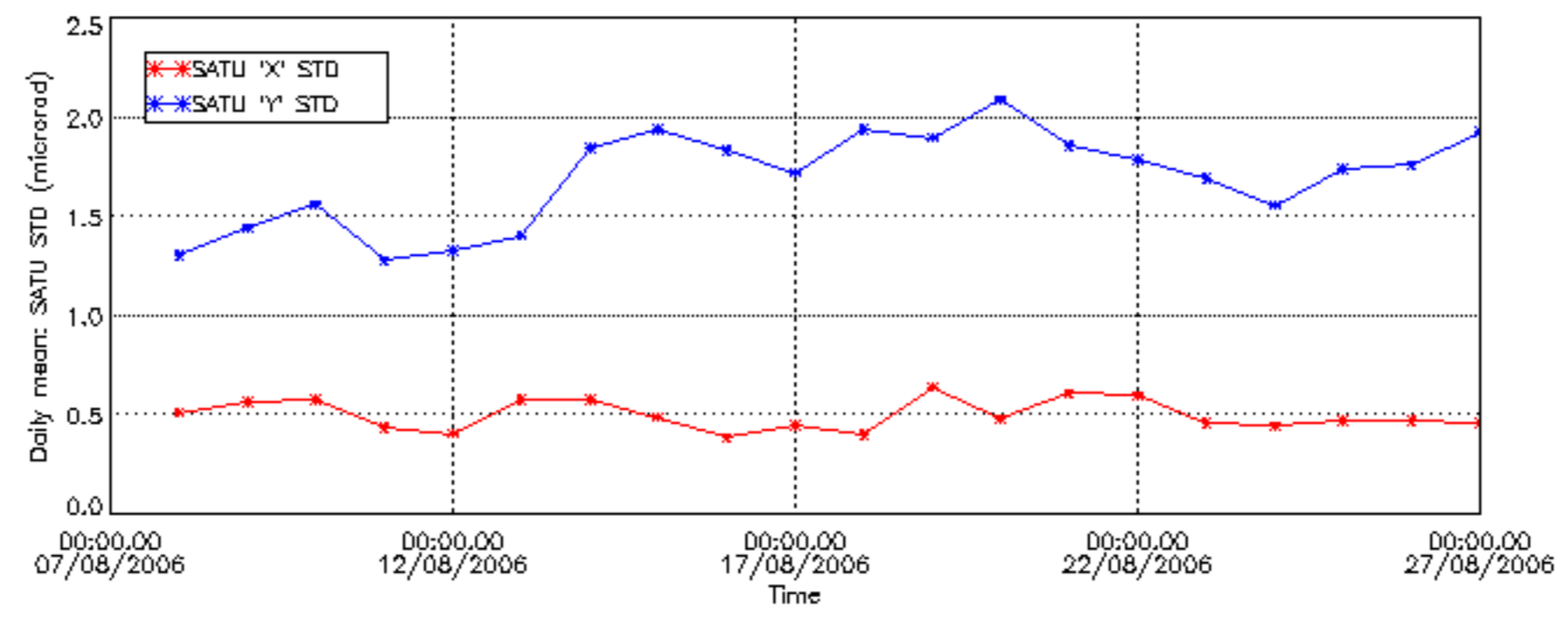


Tangent altitude at which the star is lost









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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20060801_010845_000042022050_00002_23102_0277.N1
 1; 5308.4; 01-AUG-2006 01:08:45; Dark ; 35.5; 101; 11Alp Lep ; 2.58; 7000;occ; 71; 0;23102
 2; 5731.6; 01-AUG-2006 01:15:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23102
 3; 6016.1; 01-AUG-2006 01:20:33; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;23102
 4; 6347.2; 01-AUG-2006 01:26:04; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;23102
 5; 6759.1; 01-AUG-2006 01:32:56; Dark ; 35.0; 148; Alp Tuc ; 2.88; 4100;occ; 70; 0;23102
 6; 6960.2; 01-AUG-2006 01:36:17; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;23102
 7; 7149.2; 01-AUG-2006 01:39:26; Dark ; 38.5; 172; Gam Gru ; 3.00; 13100;occ; 77; 0;23102
 8; 8101.6; 01-AUG-2006 01:55:19; Bright; 30.5; 11; 53Alp Aql ; 0.76; 8000;occ; 61; 0;23102
 9; 8186.3; 01-AUG-2006 01:56:43; Bright; 30.0; 168; 17Zet Aql ; 2.99; 11000;occ; 60; 0;23102
10; 8694.0; 01-AUG-2006 02:05:11; Bright; 33.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 66; 0;23102
11; 9134.3; 01-AUG-2006 02:12:31; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;23102
12; 9482.7; 01-AUG-2006 02:18:20; Bright; 28.5; 49; 1Alp UMi ; 1.99; 6300;occ; 57; 0;23102
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20060801_023100_000053032050_00003_23103_0278.N1
 1;-1828.8; 01-AUG-2006 02:31:00; Bright; 34.5; 6; 13Alp Aur ; 0.08; 3400;occ; 69; 0;23103
 2;-1684.0; 01-AUG-2006 02:33:25; Bright; 29.5; 107; 37The Aur ; 2.65; 11000;occ; 59; 0;23103
 3;-1515.5; 01-AUG-2006 02:36:13; Dark ; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;23103
 4;-1391.1; 01-AUG-2006 02:38:18; Dark ; 33.5; 176; 23Zet Tau ; 3.02; 22000;occ; 67; 0;23103
 5;-1171.5; 01-AUG-2006 02:41:57; Dark ; 46.0; 14; 58Alp Ori ; 0.87; 3000;occ; 92; 0;23103
 6;-1006.2; 01-AUG-2006 02:44:43; Dark ; 33.5; 30; 46Eps Ori ; 1.69; 30000;occ; 67; 0;23103
 7; -926.5; 01-AUG-2006 02:46:02; Dark ; 33.5; 125; 44Iot Ori ; 2.77; 30000;occ; 67; 0;23103
 8; -858.2; 01-AUG-2006 02:47:11; Dark ; 41.5; 7; 19Bet Ori ; 0.10; 14000;occ; 83; 0;23103
 9; -727.4; 01-AUG-2006 02:49:21; Dark ; 34.0; 101; 11Alp Lep ; 2.58; 7000;occ; 68; 0;23103
10; -303.6; 01-AUG-2006 02:56:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23103
11; -18.7; 01-AUG-2006 03:01:10; Dark ; 39.0; 157; The1Eri ; 2.91; 9300;occ; 78; 0;23103
12; 312.3; 01-AUG-2006 03:06:41; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;23104
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