

GOMOS Daily Report 03-JUL-2008

Level 0 and Level 1 products

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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	05JUL2008 05:32:14
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (03JUL2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (04JUL2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

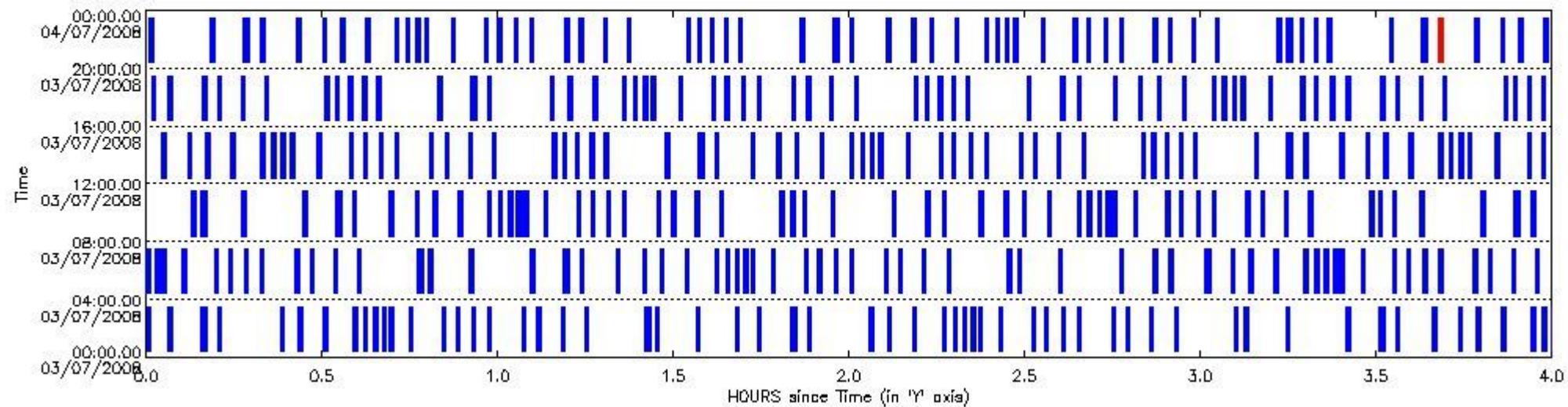
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

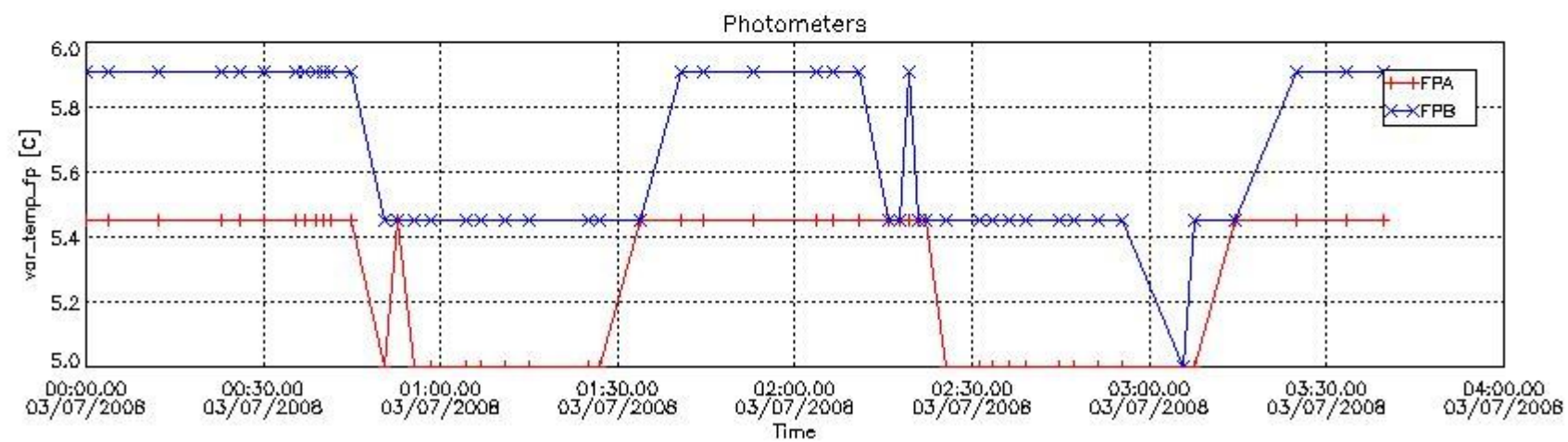
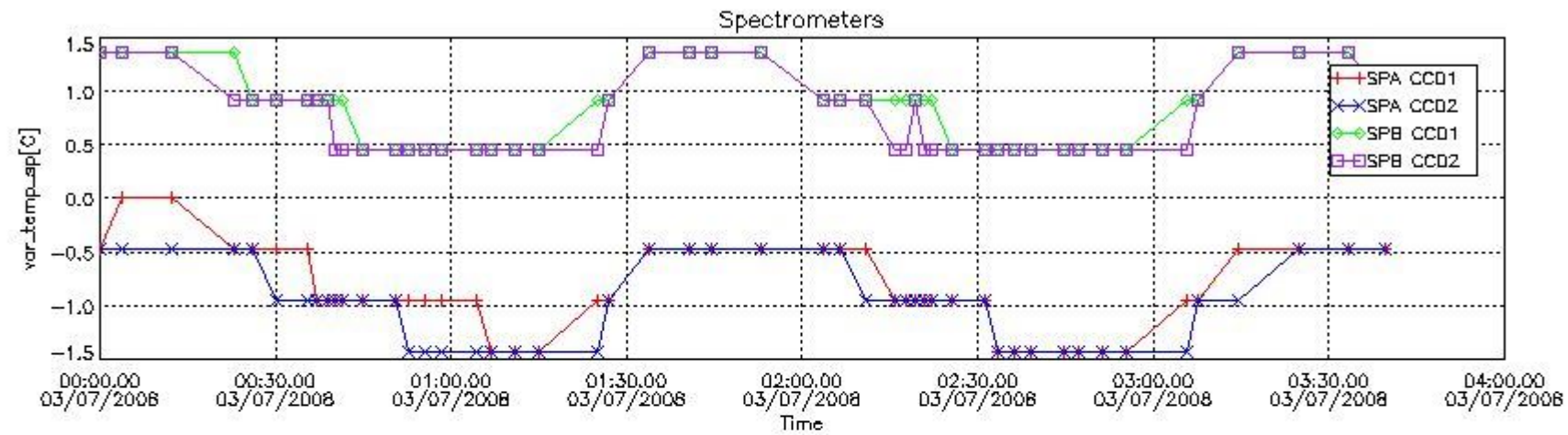
UTC start time	Star name	Star ID	Orbit
03-JUL-2008 23:40:40	The1Eri	157	33164

2.4 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_1PNPDE20080703_000005_000000342070_00030_33150_9545.N1	03-JUL-2008 00:00:05	Dark	34.000	94	92Alp Cet	2.5260	3100.0	68	33150	No
2	GOM_TRA_1PNPDE20080703_000344_000000382070_00030_33150_9546.N1	03-JUL-2008 00:03:44	Dark	38.000	165	34Gam Eri	2.9500	3200.0	76	33150	No
3	GOM_TRA_1PNPDE20080703_001213_000000392070_00030_33150_9663.N1	03-JUL-2008 00:12:13	Dark	38.500	157	The1Eri	2.9060	9300.0	77	33150	No
4	GOM_TRA_1PNPDE20080703_002253_000000372070_00031_33151_9664.N1	03-JUL-2008 00:22:53	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	33151	No
5	GOM_TRA_1PNPDE20080703_002552_000000432070_00031_33151_9665.N1	03-JUL-2008 00:25:52	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	33151	No
6	GOM_TRA_1PNPDE20080703_003011_000000402070_00031_33151_9666.N1	03-JUL-2008 00:30:11	Straylight	39.500	45	Alp Pav	1.9400	26000.	79	33151	No
7	GOM_TRA_1PNPDE20080703_003518_000000382070_00031_33151_9667.N1	03-JUL-2008 00:35:18	Twilight_stray	38.000	147	Alp Ara	2.8770	26000.	76	33151	No
8	GOM_TRA_1PNPDE20080703_003707_000000402070_00031_33151_9668.N1	03-JUL-2008 00:37:07	Twilight_stray	40.000	40	The Sco	1.8590	7100.0	80	33151	No
9	GOM_TRA_1PNPDE20080703_003847_000000402070_00031_33151_9669.N1	03-JUL-2008 00:38:47	Twilight_stray	39.500	25	35Lam Sco	1.6200	28000.	79	33151	No
10	GOM_TRA_1PNPDE20080703_004013_000000462070_00031_33151_9670.N1	03-JUL-2008 00:40:13	Bright	46.000	116	19Del Sgr	2.7000	4100.0	92	33151	No

11	GOM_TRA_1PNPDE20080703_004124_000000422070_00031_33151_9671.N1	03-JUL-2008 00:41:24	Bright	41.500	137	22Lam Sgr	2.8240	4400.0	83	33151	No
12	GOM_TRA_1PNPDE20080703_004457_000000372070_00031_33151_9672.N1	03-JUL-2008 00:44:57	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	33151	No
13	GOM_TRA_1PNPDE20080703_005031_000000372070_00031_33151_9673.N1	03-JUL-2008 00:50:31	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	33151	No
14	GOM_TRA_1PNPDE20080703_005250_000000362070_00031_33151_9674.N1	03-JUL-2008 00:52:50	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	33151	No
15	GOM_TRA_1PNPDE20080703_005538_000000372070_00031_33151_9675.N1	03-JUL-2008 00:55:38	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	33151	No
16	GOM_TRA_1PNPDE20080703_005820_000000352070_00031_33151_9676.N1	03-JUL-2008 00:58:20	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	33151	No
17	GOM_TRA_1PNPDE20080703_010413_000000342070_00031_33151_9677.N1	03-JUL-2008 01:04:13	Bright	34.000	130	23Bet Dra	2.7990	5800.0	68	33151	No
18	GOM_TRA_1PNPDE20080703_010643_000000362070_00031_33151_9678.N1	03-JUL-2008 01:06:43	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	33151	No
19	GOM_TRA_1PNPDE20080703_011046_000000332070_00031_33151_9679.N1	03-JUL-2008 01:10:46	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	33151	No
20	GOM_TRA_1PNPDE20080703_011454_000000332070_00031_33151_9680.N1	03-JUL-2008 01:14:54	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	33151	No
21	GOM_TRA_1PNPDE20080703_012510_000000562070_00031_33151_9681.N1	03-JUL-2008 01:25:10	Bright	56.000	160	23Gam Per	2.9300	4700.0	112	33151	No
22	GOM_TRA_1PNPDE20080703_012656_000000392070_00031_33151_9682.N1	03-JUL-2008 01:26:56	Bright	39.000	175	39Del Per	3.0100	19400.	78	33151	No
23	GOM_TRA_1PNPDE20080703_013354_000000402070_00031_33151_9683.N1	03-JUL-2008 01:33:54	Twilight	39.500	146	25Eta Tau	2.8730	15200.	79	33151	No
24	GOM_TRA_1PNPDE20080703_014042_000000342070_00031_33151_9684.N1	03-JUL-2008 01:40:42	Dark	34.000	94	92Alp Cet	2.5260	3100.0	68	33151	No
25	GOM_TRA_1PNPDE20080703_014420_000000412070_00031_33151_9823.N1	03-JUL-2008 01:44:20	Dark	41.000	165	34Gam Eri	2.9500	3200.0	82	33151	No
26	GOM_TRA_1PNPDE20080703_015249_000000412070_00031_33151_9824.N1	03-JUL-2008 01:52:49	Dark	40.500	157	The1Eri	2.9060	9300.0	81	33151	No
27	GOM_TRA_1PNPDE20080703_020329_000000372070_00032_33152_9825.N1	03-JUL-2008 02:03:29	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	33152	No
28	GOM_TRA_1PNPDE20080703_020629_000000452070_00032_33152_9826.N1	03-JUL-2008 02:06:29	Straylight	44.500	148	Alp Tuc	2.8780	4100.0	89	33152	No
29	GOM_TRA_1PNPDE20080703_021047_000000412070_00032_33152_9827.N1	03-JUL-2008 02:10:47	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	33152	No
30	GOM_TRA_1PNPDE20080703_021554_000000382070_00032_33152_9828.N1	03-JUL-2008 02:15:54	Tw_i_and_stray	38.000	147	Alp Ara	2.8770	26000.	76	33152	No
31	GOM_TRA_1PNPDE20080703_021743_000000442070_00032_33152_9829.N1	03-JUL-2008 02:17:43	Tw_i_and_stray	43.500	40	The Sco	1.8590	7100.0	87	33152	No
32	GOM_TRA_1PNPDE20080703_021923_000000402070_00032_33152_9830.N1	03-JUL-2008 02:19:23	Tw_i_and_stray	40.000	25	35Lam Sco	1.6200	28000.	80	33152	No
33	GOM_TRA_1PNPDE20080703_022049_000000452070_00032_33152_9831.N1	03-JUL-2008 02:20:49	Bright	45.000	116	19Del Sgr	2.7000	4100.0	90	33152	No
34	GOM_TRA_1PNPDE20080703_022200_000000412070_00032_33152_9832.N1	03-JUL-2008 02:22:00	Bright	41.000	137	22Lam Sgr	2.8240	4400.0	82	33152	No
35	GOM_TRA_1PNPDE20080703_022533_000000372070_00032_33152_9833.N1	03-JUL-2008 02:25:33	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	33152	No
36	GOM_TRA_1PNPDE20080703_023107_000000372070_00032_33152_9834.N1	03-JUL-2008 02:31:07	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	33152	No
37	GOM_TRA_1PNPDE20080703_023326_000000362070_00032_33152_9835.N1	03-JUL-2008 02:33:26	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	33152	No
38	GOM_TRA_1PNPDE20080703_023614_000000352070_00032_33152_9836.N1	03-JUL-2008 02:36:14	Bright	35.000	127	27Bet Her	2.7810	4700.0	70	33152	No
39	GOM_TRA_1PNPDE20080703_023856_000000342070_00032_33152_9837.N1	03-JUL-2008 02:38:56	Bright	33.500	133	40Zet Her	2.8070	6000.0	67	33152	No
40	GOM_TRA_1PNPDE20080703_024449_000000362070_00032_33152_9838.N1	03-JUL-2008 02:44:49	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	33152	No
41	GOM_TRA_1PNPDE20080703_024719_000000342070_00032_33152_9839.N1	03-JUL-2008 02:47:19	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	33152	No
42	GOM_TRA_1PNPDE20080703_025122_000000372070_00032_33152_9840.N1	03-JUL-2008 02:51:22	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	33152	No
43	GOM_TRA_1PNPDE20080703_025530_000000332070_00032_33152_9841.N1	03-JUL-2008 02:55:30	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	33152	No
44	GOM_TRA_1PNPDE20080703_030546_000000412070_00032_33152_9961.N1	03-JUL-2008 03:05:46	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	33152	No
45	GOM_TRA_1PNPDE20080703_030732_000000342070_00032_33152_9962.N1	03-JUL-2008 03:07:32	Bright	33.500	175	39Del Per	3.0100	19400.	67	33152	No
46	GOM_TRA_1PNPDE20080703_031431_000000392070_00032_33152_9963.N1	03-JUL-2008 03:14:31	Twilight	39.000	146	25Eta Tau	2.8730	15200.	78	33152	No
47	GOM_TRA_1PNPDE20080703_032456_000000392070_00032_33152_9964.N1	03-JUL-2008 03:24:56	Dark	39.000	165	34Gam Eri	2.9500	3200.0	78	33152	No
48	GOM_TRA_1PNPDE20080703_033326_000000382070_00032_33152_9965.N1	03-JUL-2008 03:33:26	Dark	38.000	157	The1Eri	2.9060	9300.0	76	33152	No
49	GOM_TRA_1PNPDE20080703_033935_000000422070_00033_33153_9966.N1	03-JUL-2008 03:39:35	Dark	42.000	9	Alp Eri	0.45300	24000.	84	33153	No

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



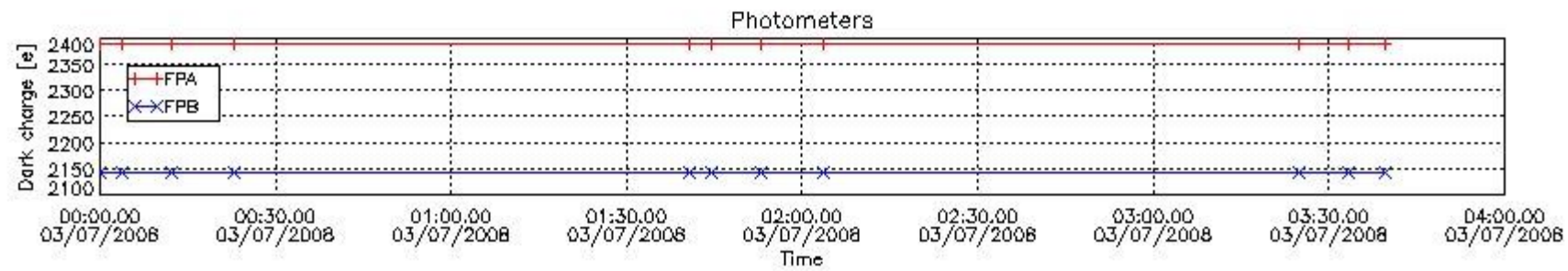
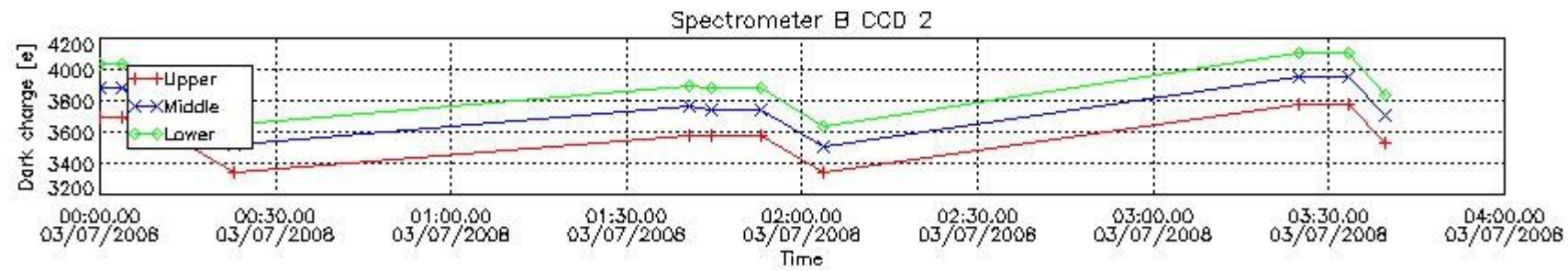
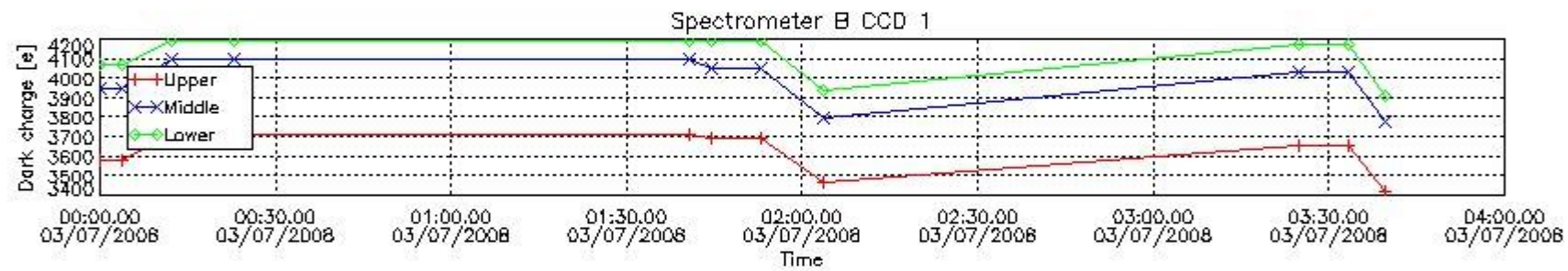
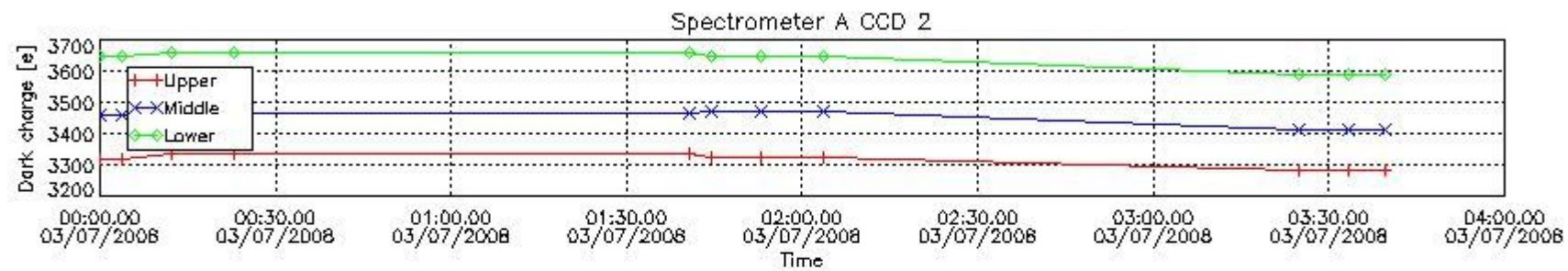
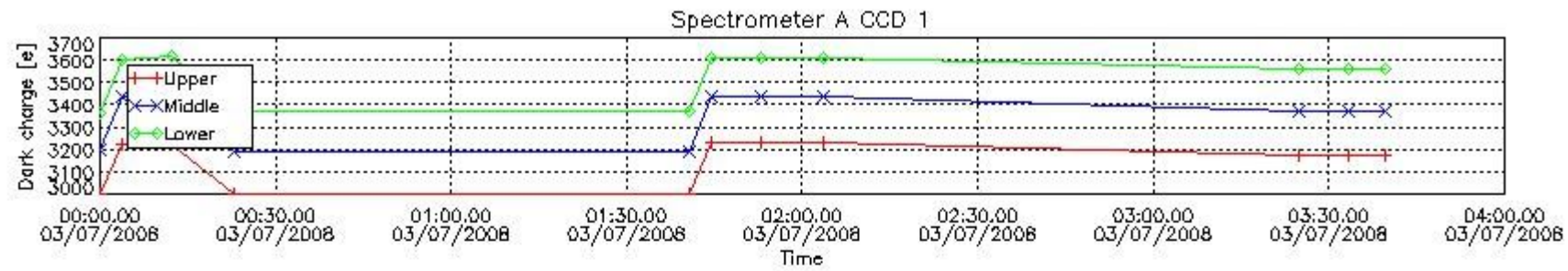
4. Overview of dark signal processing per product

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 All products used the DSA observation for the DC computation

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



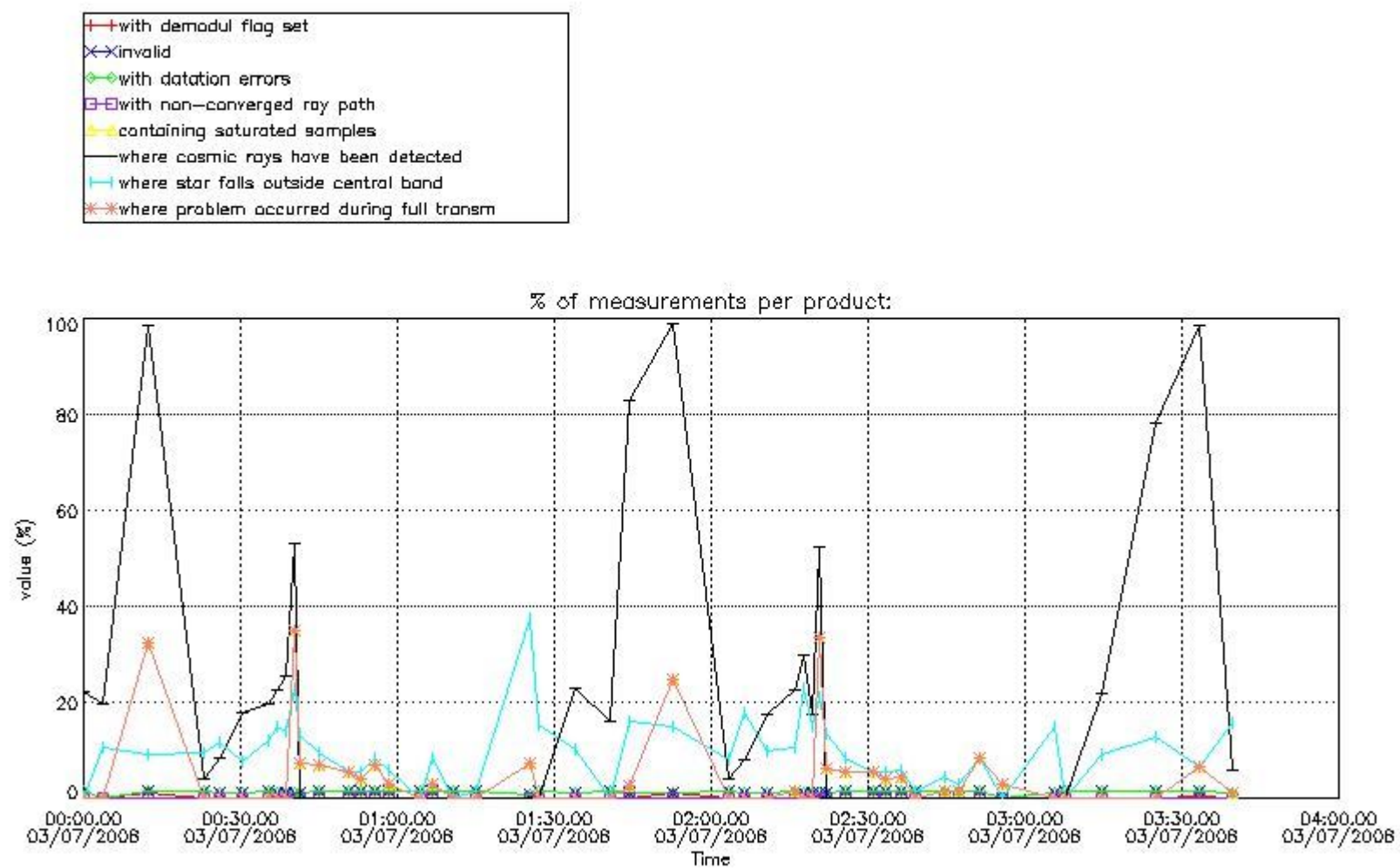
5. Demodulation flag and quality information monitoring

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.

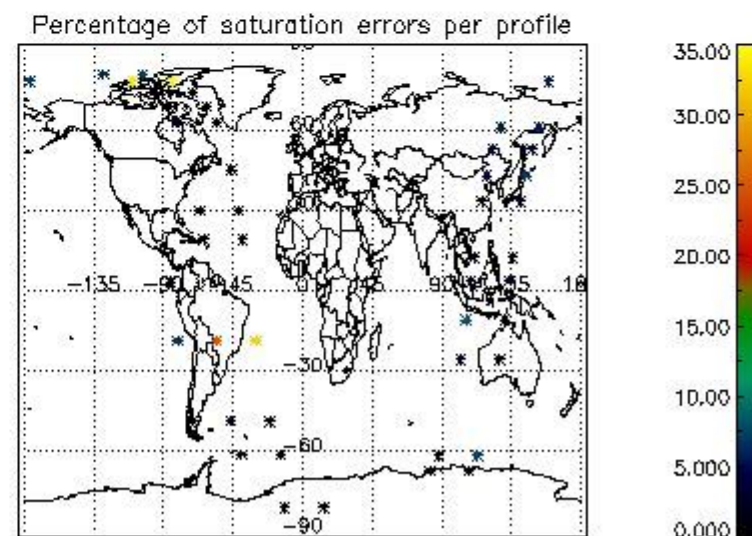
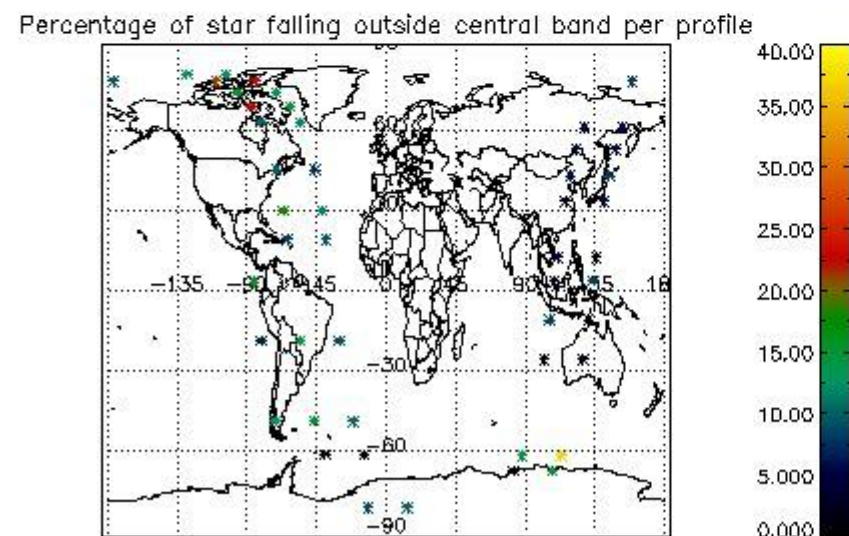
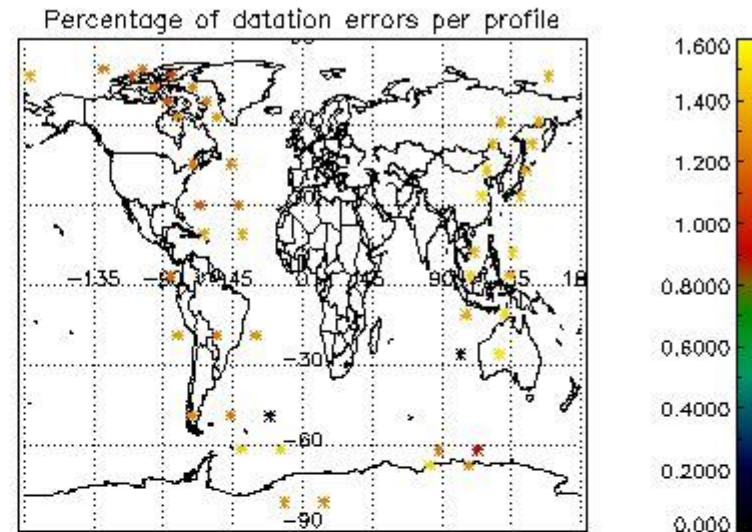
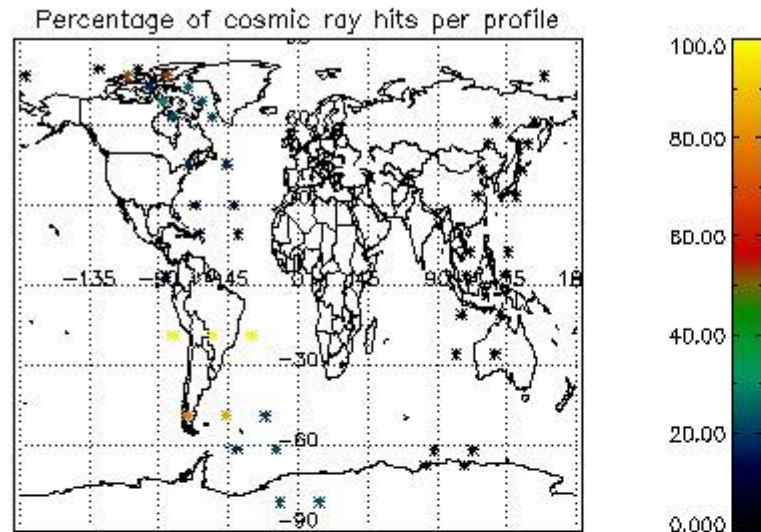
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.4898 %
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)



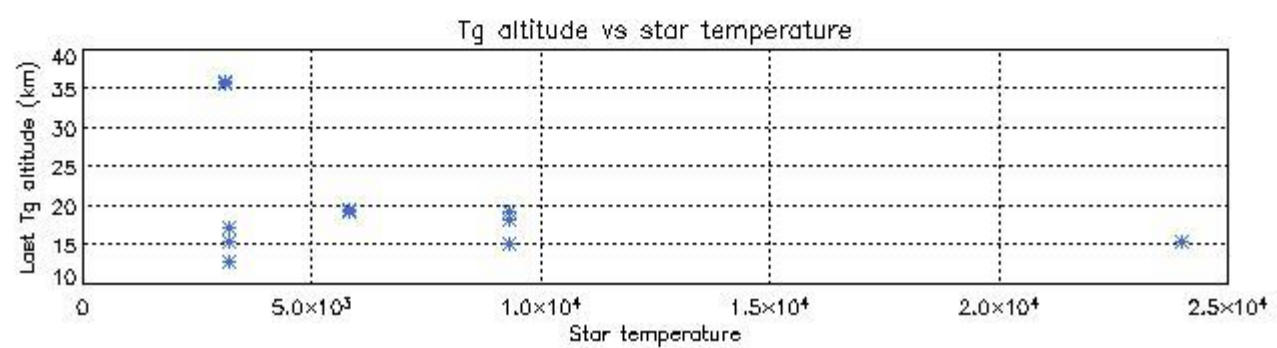
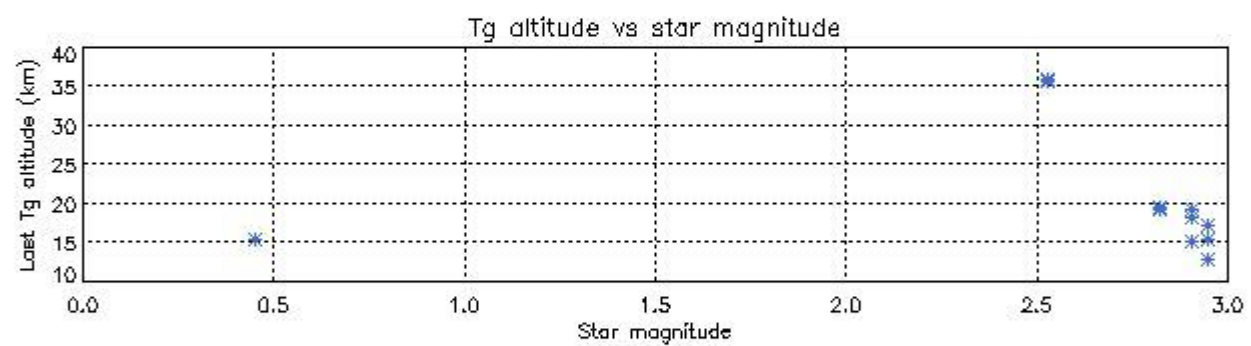
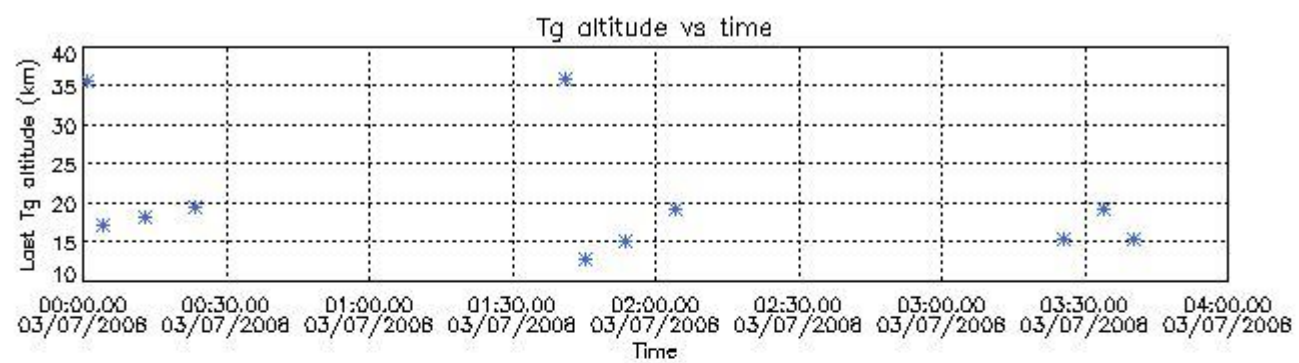
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	20.303	20.347	16.754
St. deviation:	7.9269	5.7311	0.54505
Maximum:	35.797	28.875	17.140
Minimum:	12.886	4.0515	16.369
Number of data:	11.000	26.000	2.0000

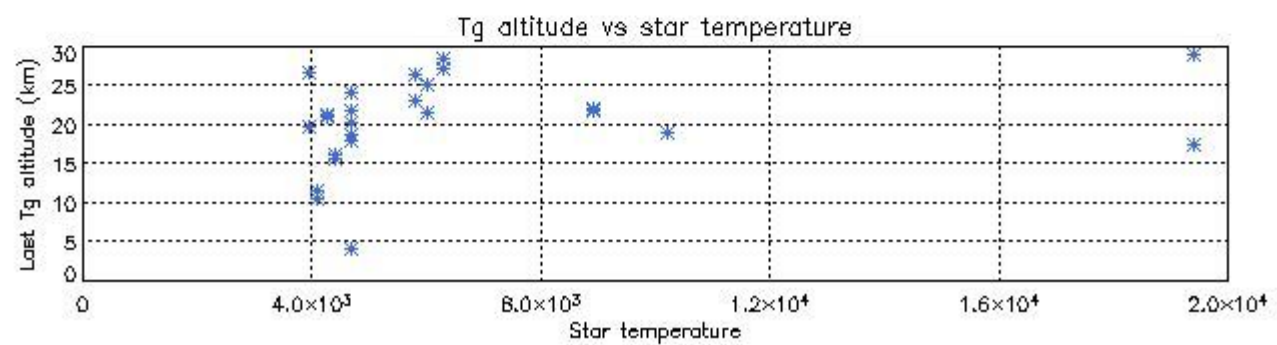
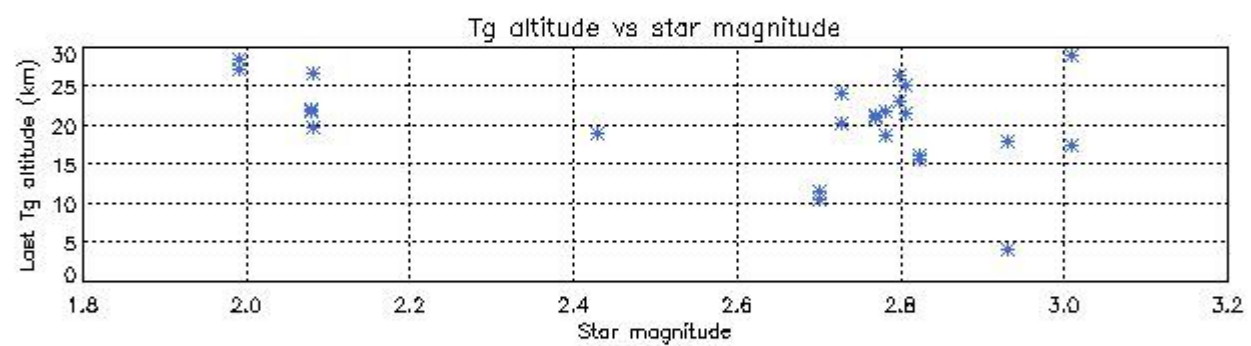
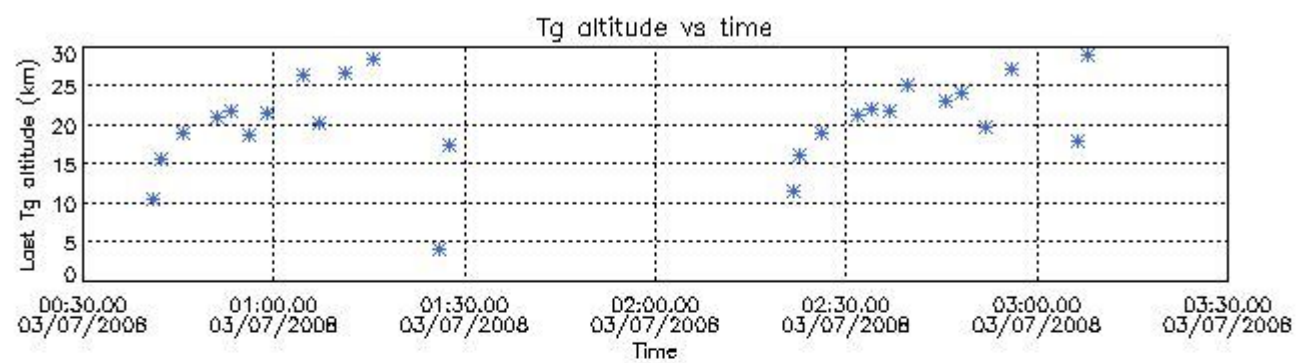
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



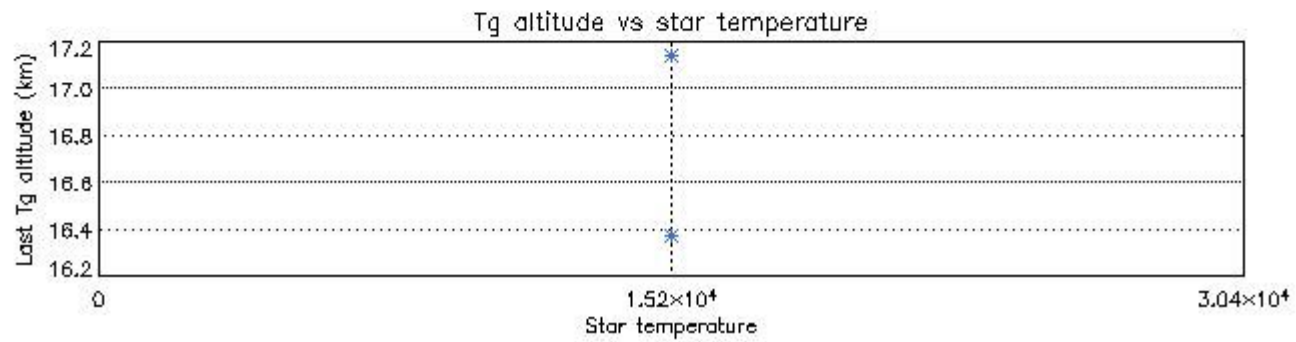
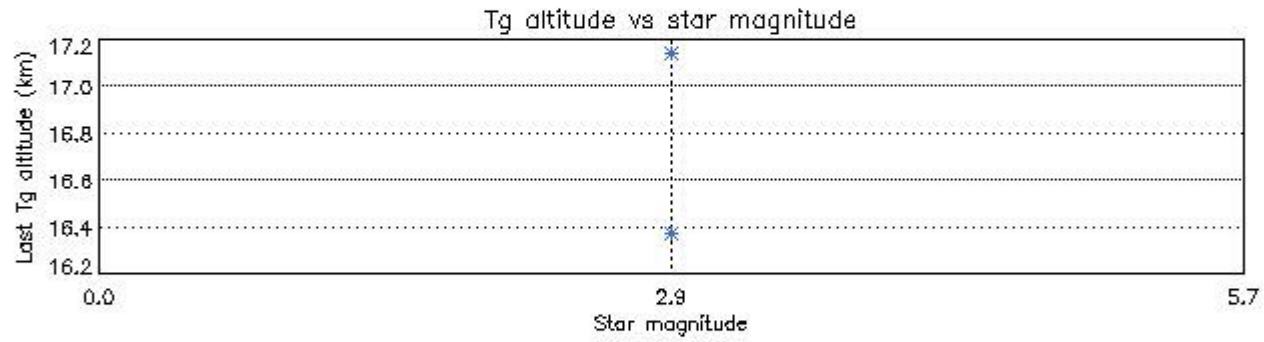
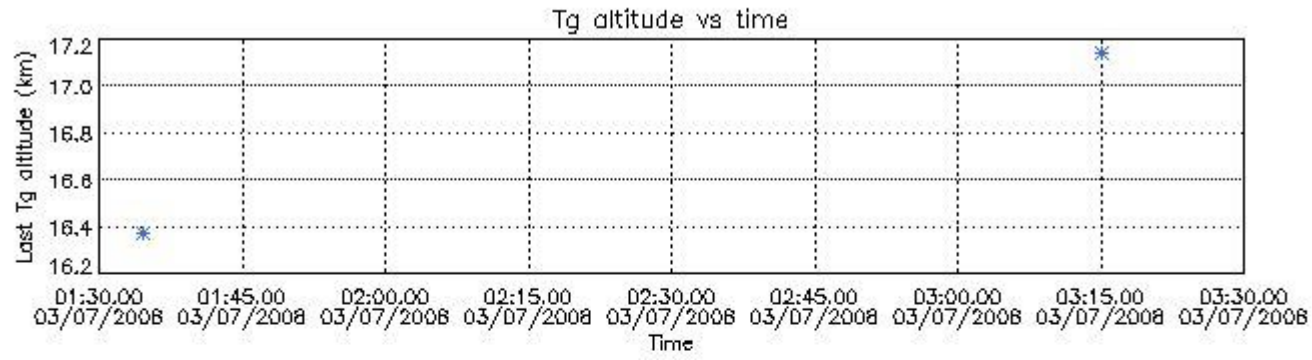
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

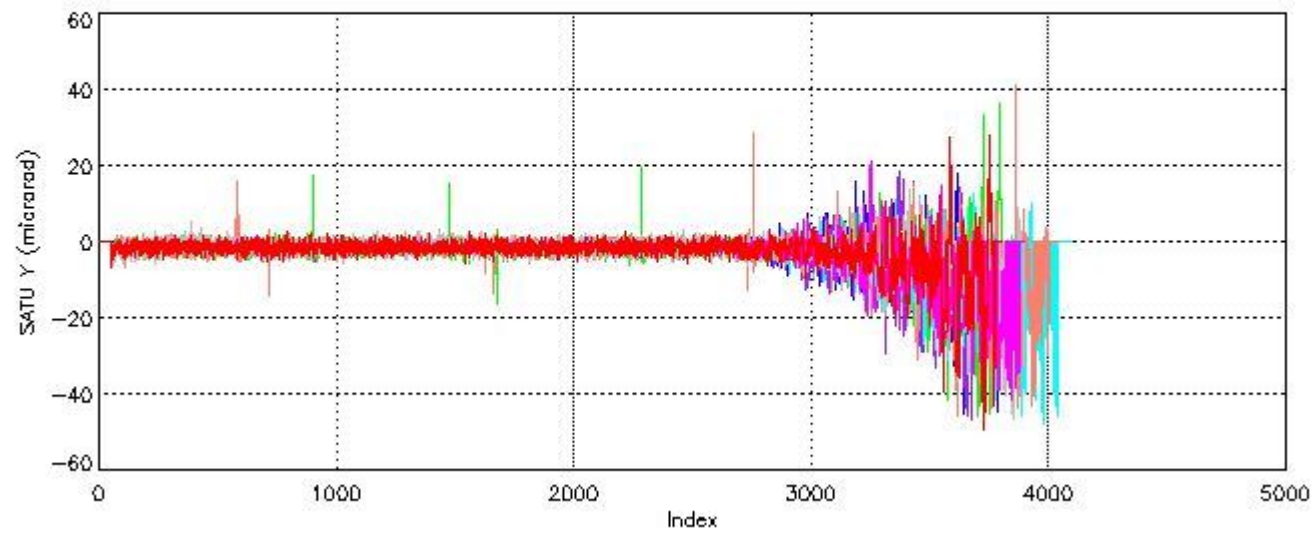
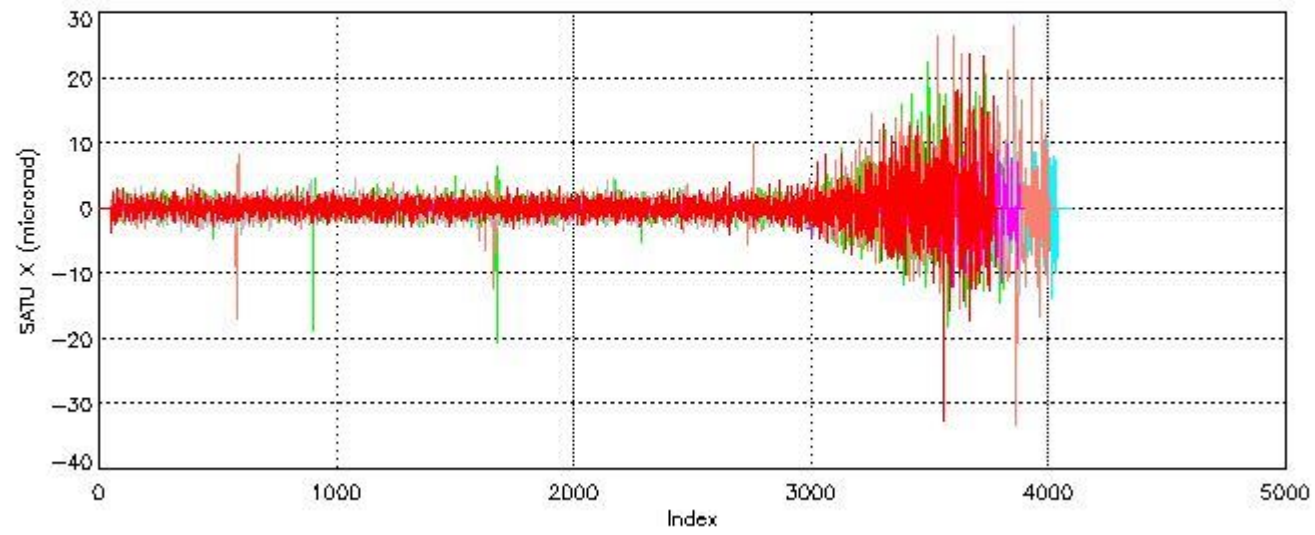


7. Star Acquisition and Tracking Unit (SATU)

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:	0.045664	-1.4164	0.080917	-1.4145
St. deviation:	0.58446	0.82444	0.76036	0.91310
Maximum:	8.1000	16.000	5.7000	6.0000
Minimum:	-17.100	-14.200	-5.3000	-6.8000

Number of data:	9750.0	9750.0	21750.	21750.
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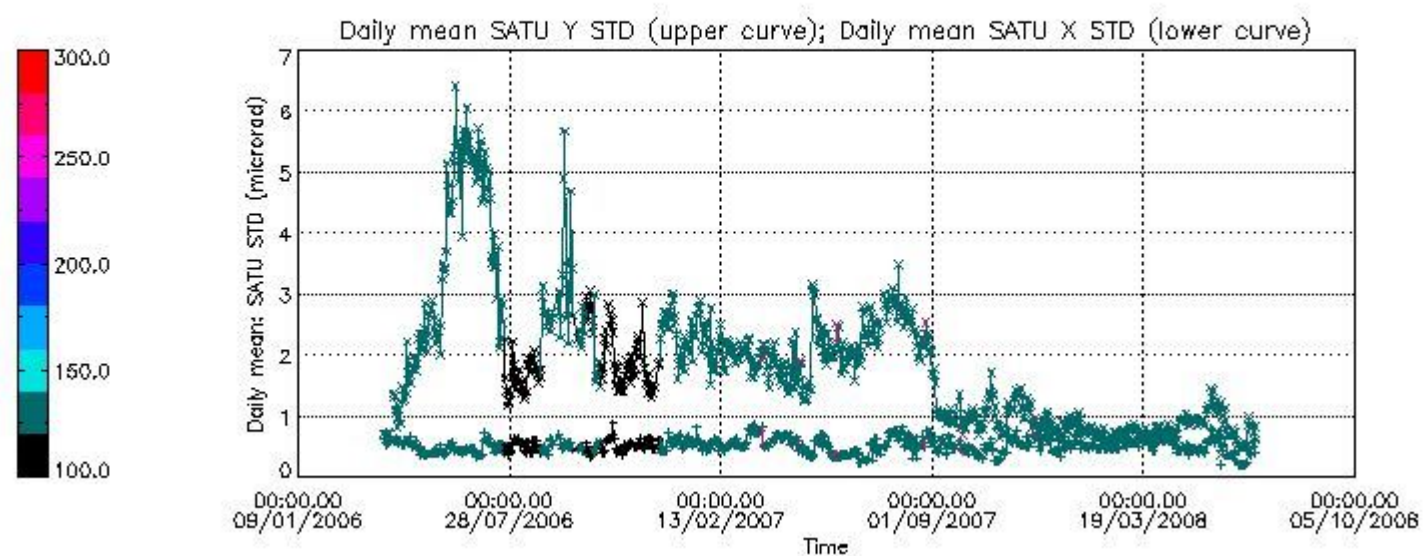
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

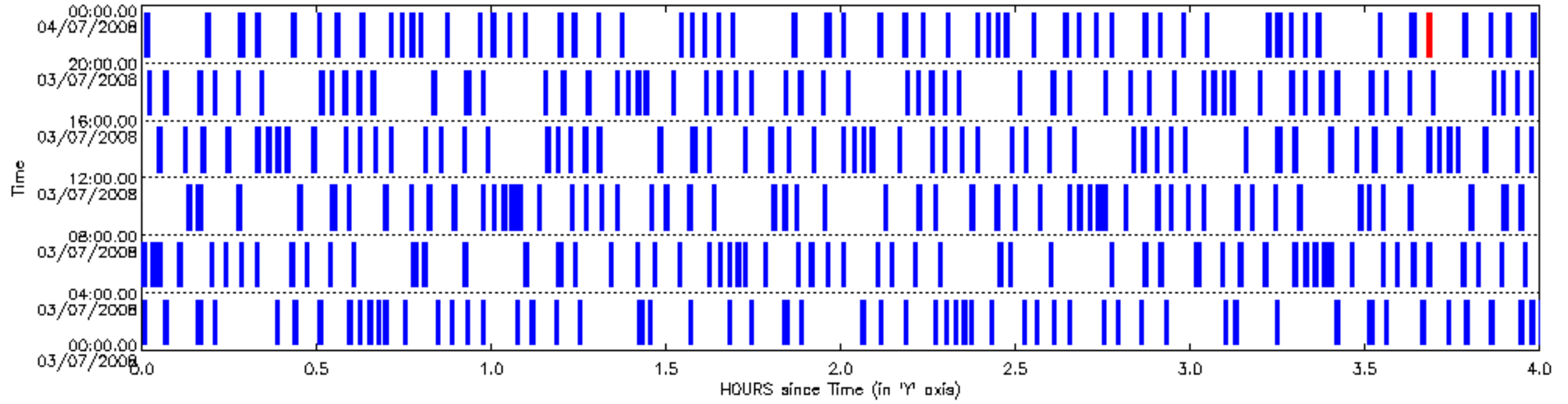
Lower curve: STD of SATU X axis

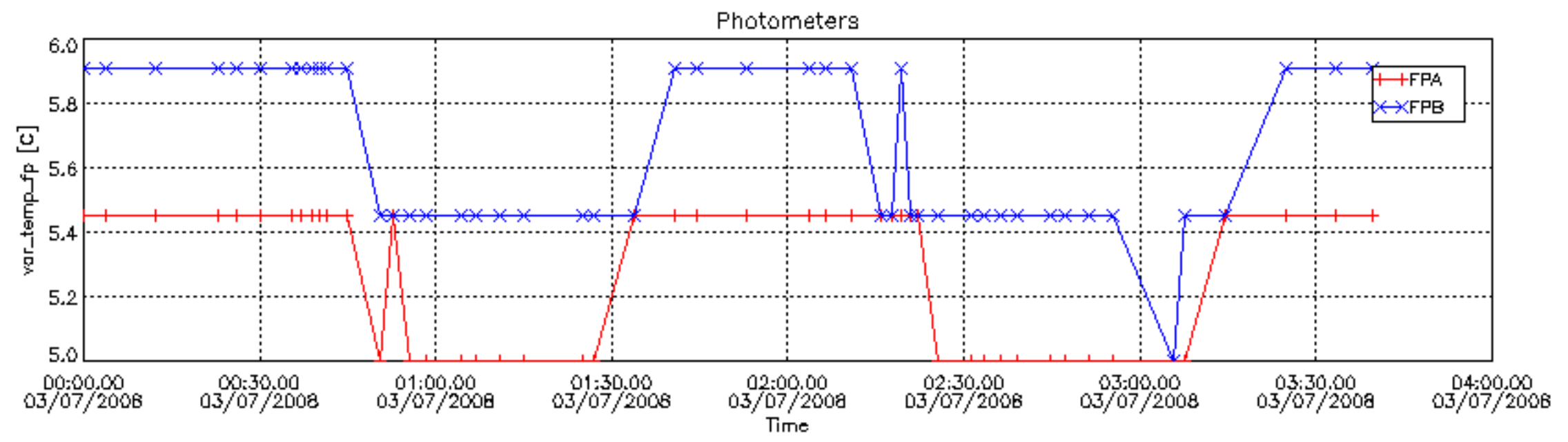
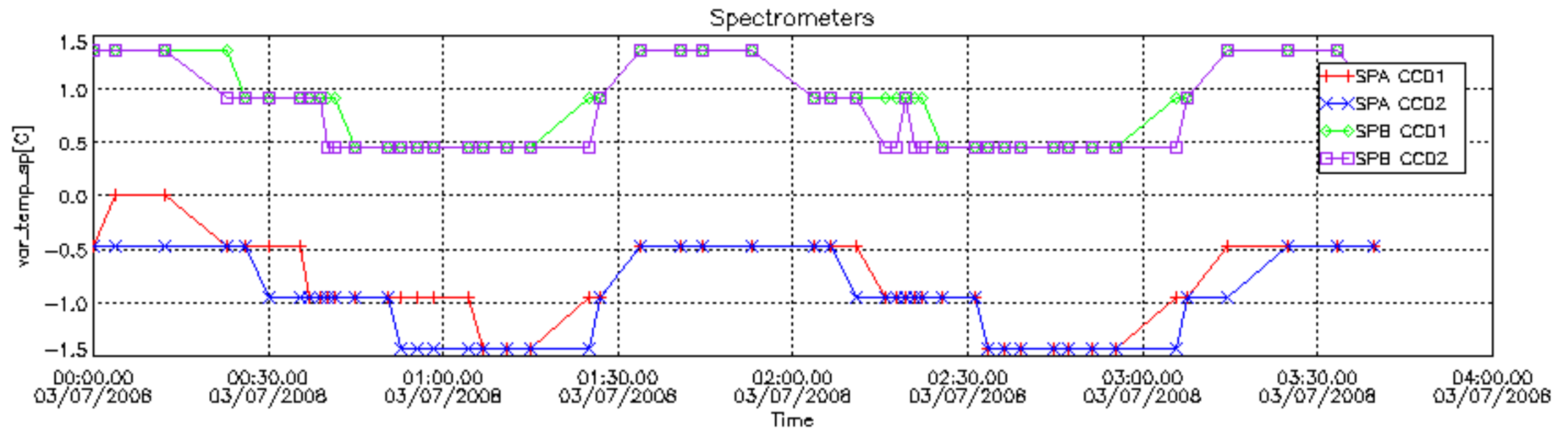


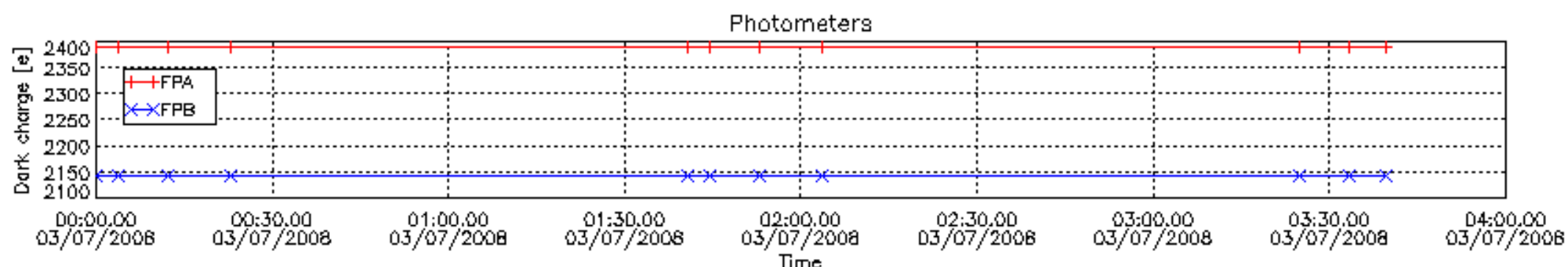
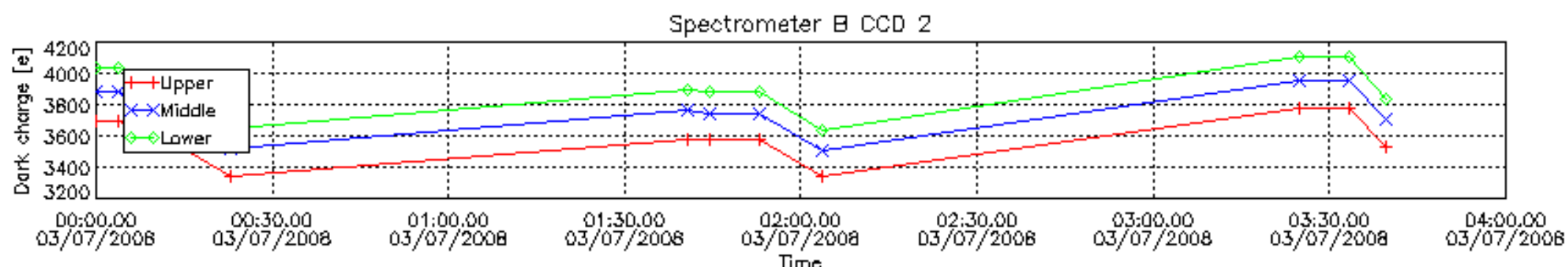
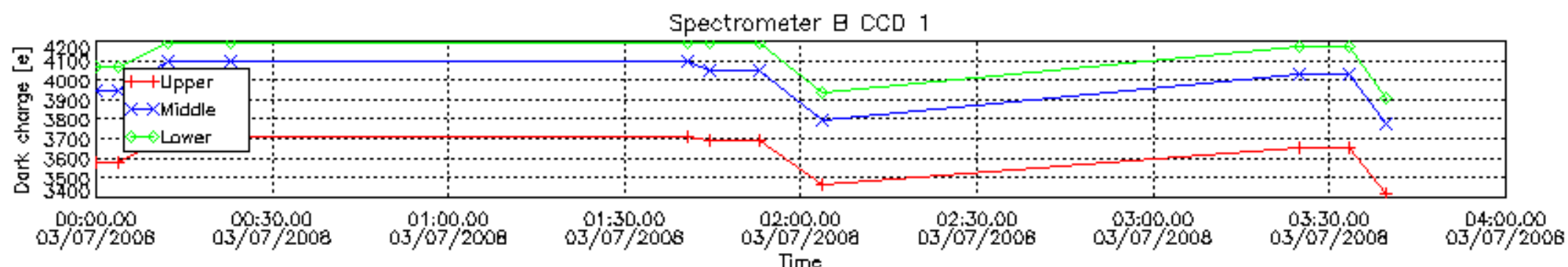
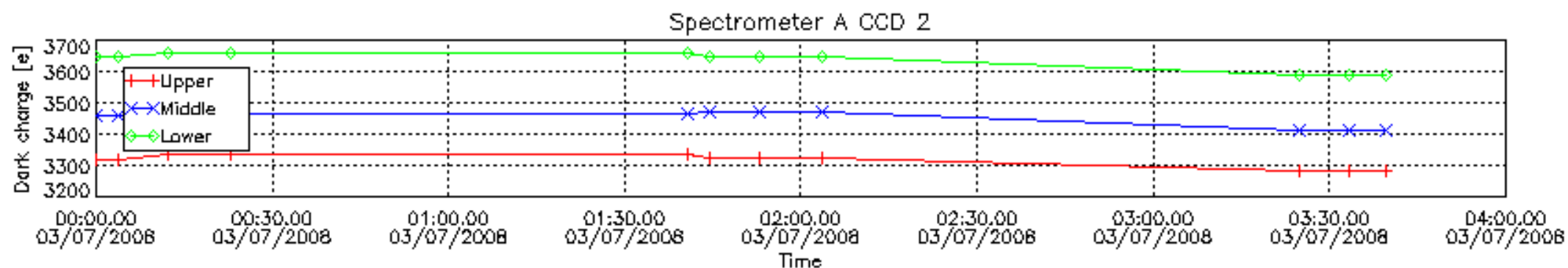
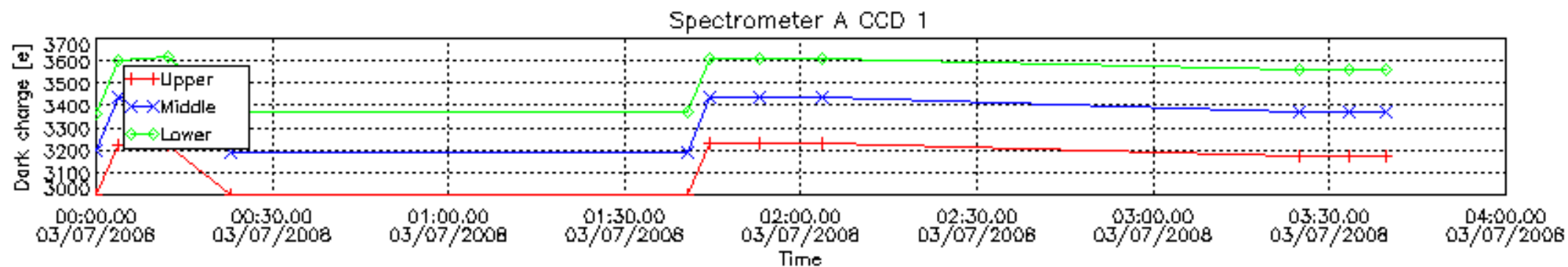
8. Auxiliary Data Files used for the production reported in section 2.4

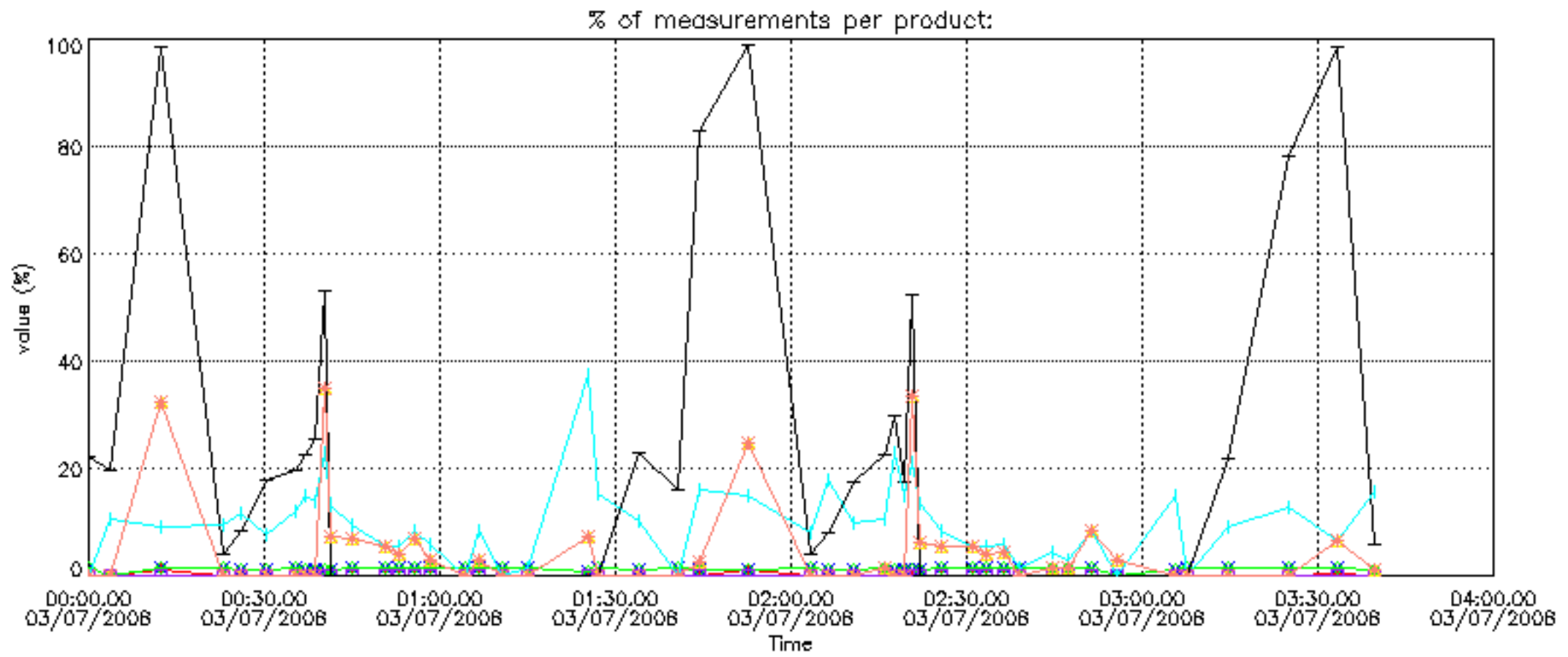
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	03-JUL-2008 00:00:05
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080630_090115_20080628_000000_20100101_000000	1	03-JUL-2008 00:00:05
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	03-JUL-2008 00:00:05
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-JUL-2008 00:00:05
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	03-JUL-2008 00:00:05
ECMWF_FILE	AUX_ECF_AXNECM20080702_072113_20080702_210000_20080703_090000	1	03-JUL-2008 00:00:05
ECMWF_FILE	AUX_ECF_AXNECM20080702_190117_20080703_030000_20080703_150000	44	03-JUL-2008 03:05:46
OPTIONAL_ECMWF_FILE	MISSING	1	03-JUL-2008 00:00:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080702_211103_000038252070_00029_33149_5873.N1	1	03-JUL-2008 00:00:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080702_222007_000057382070_00029_33149_5874.N1	3	03-JUL-2008 00:12:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080703_000104_000057382070_00030_33150_5875.N1	25	03-JUL-2008 01:44:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080703_014201_000041442070_00031_33151_5876.N1	44	03-JUL-2008 03:05:46

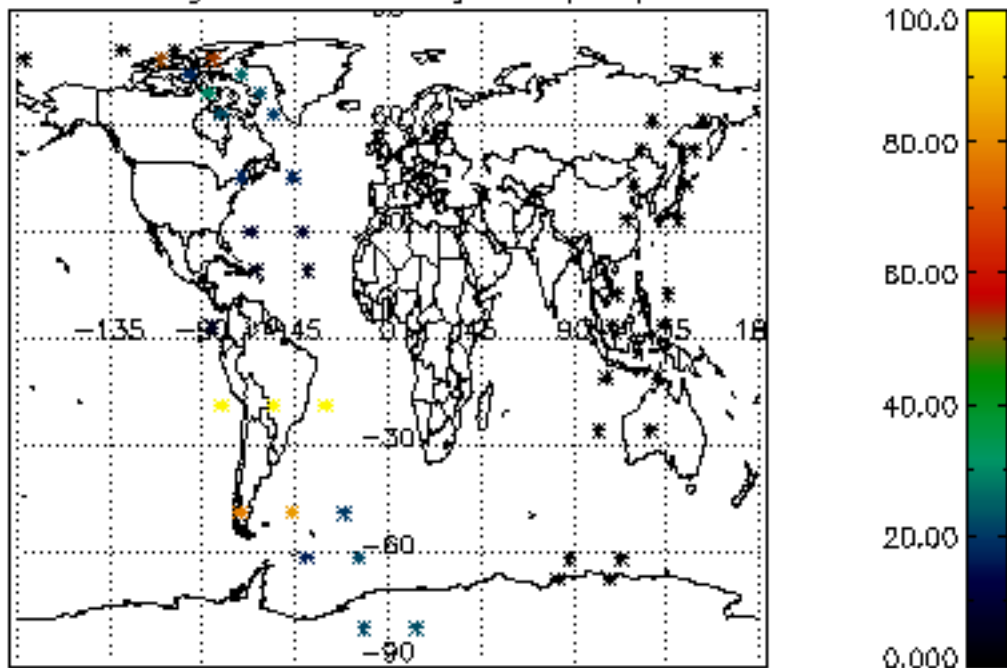




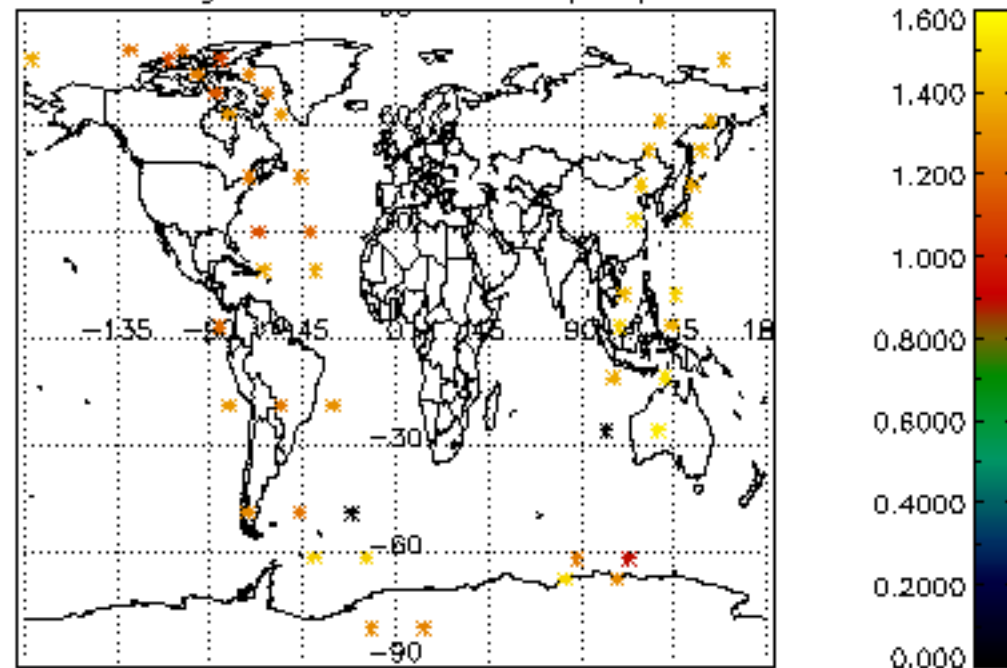




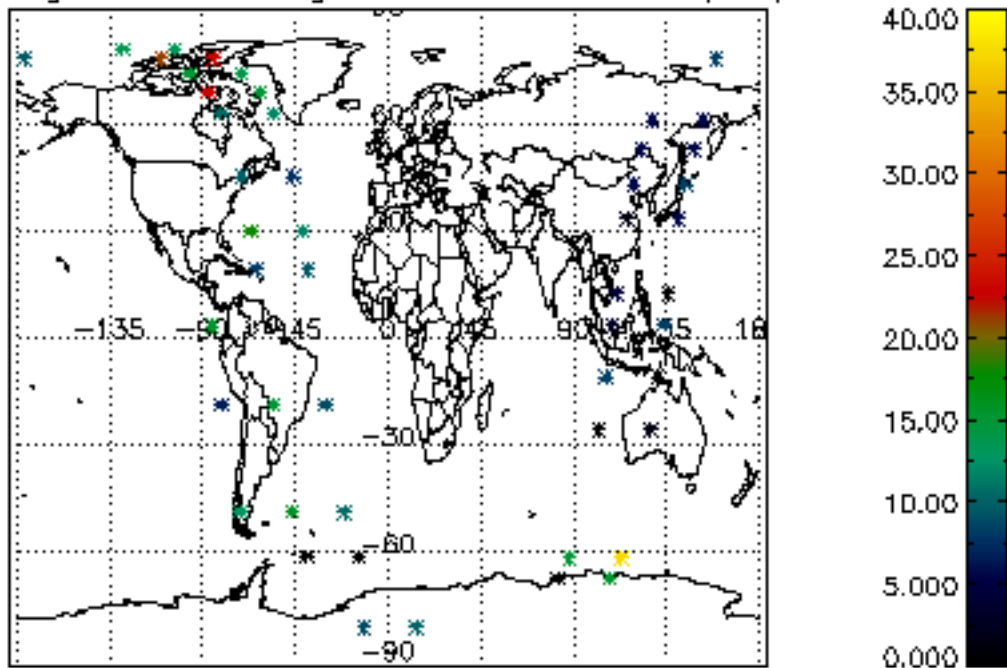
Percentage of cosmic ray hits per profile



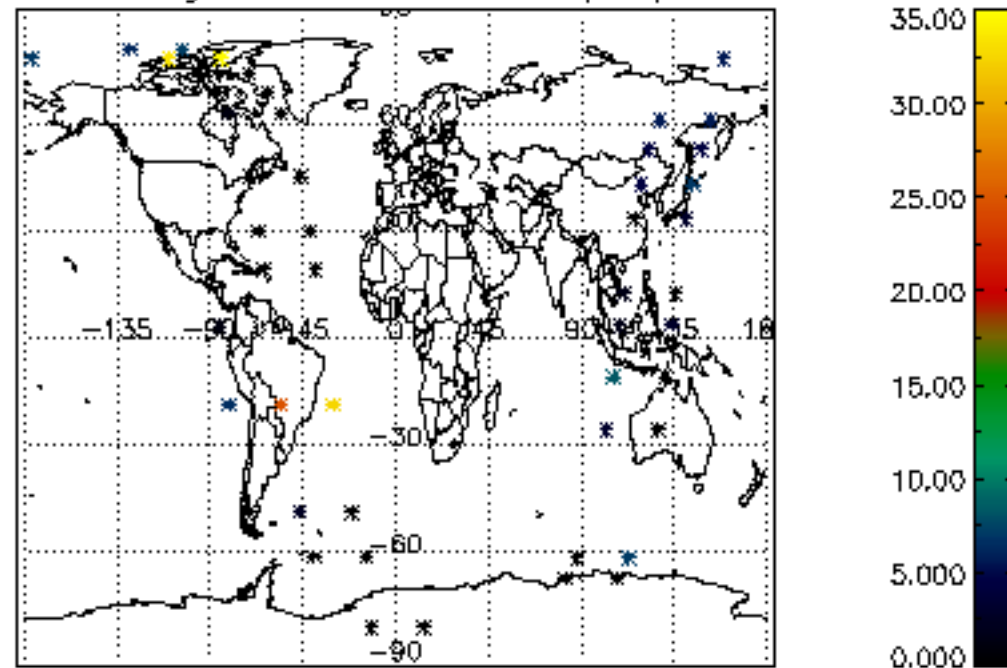
Percentage of datation errors per profile



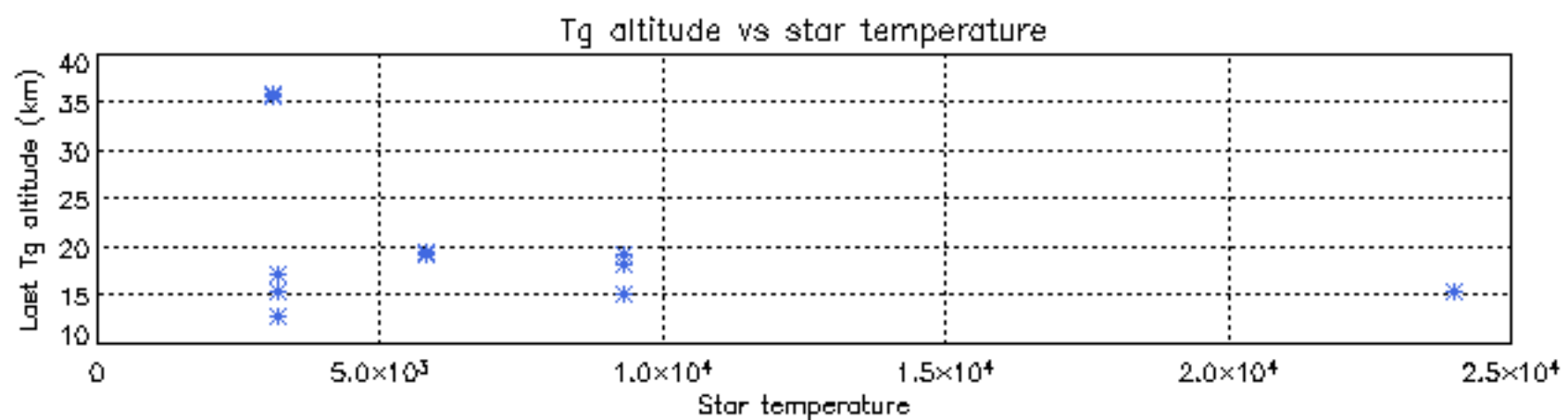
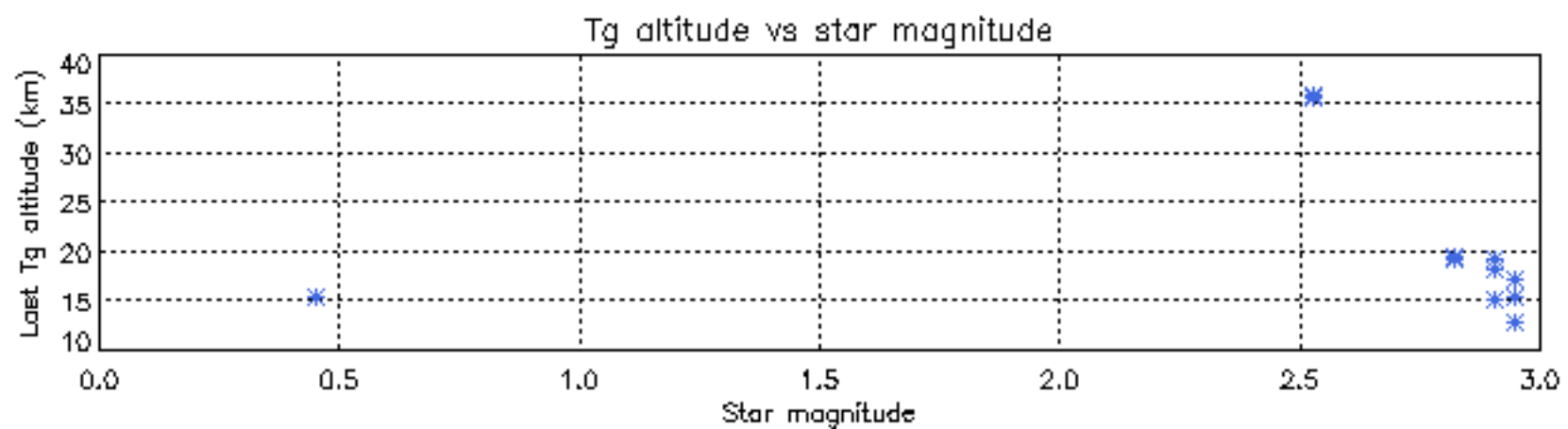
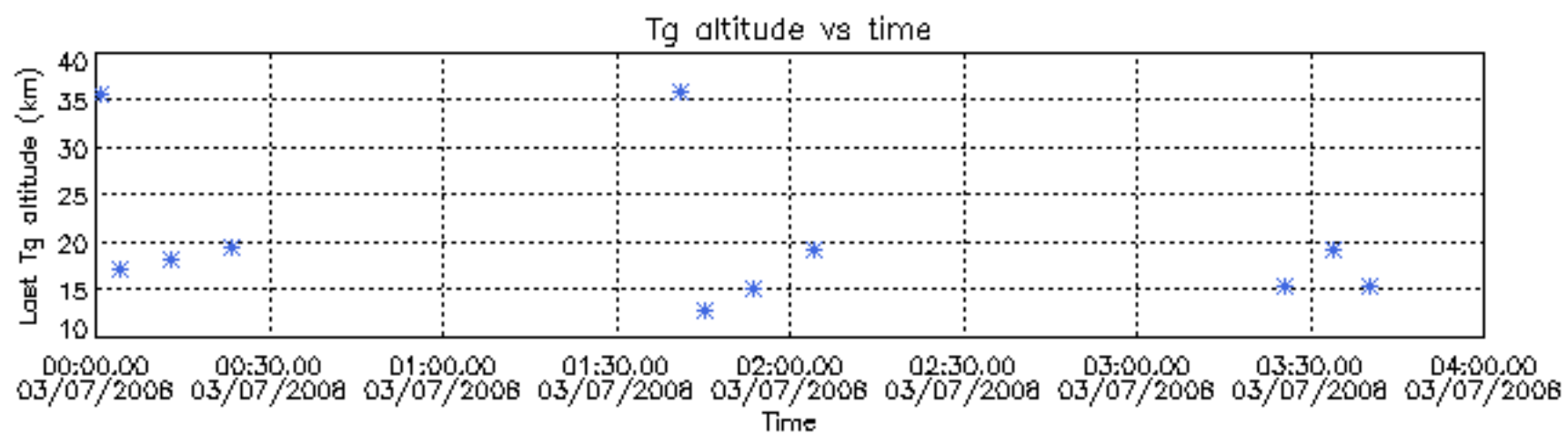
Percentage of star falling outside central band per profile



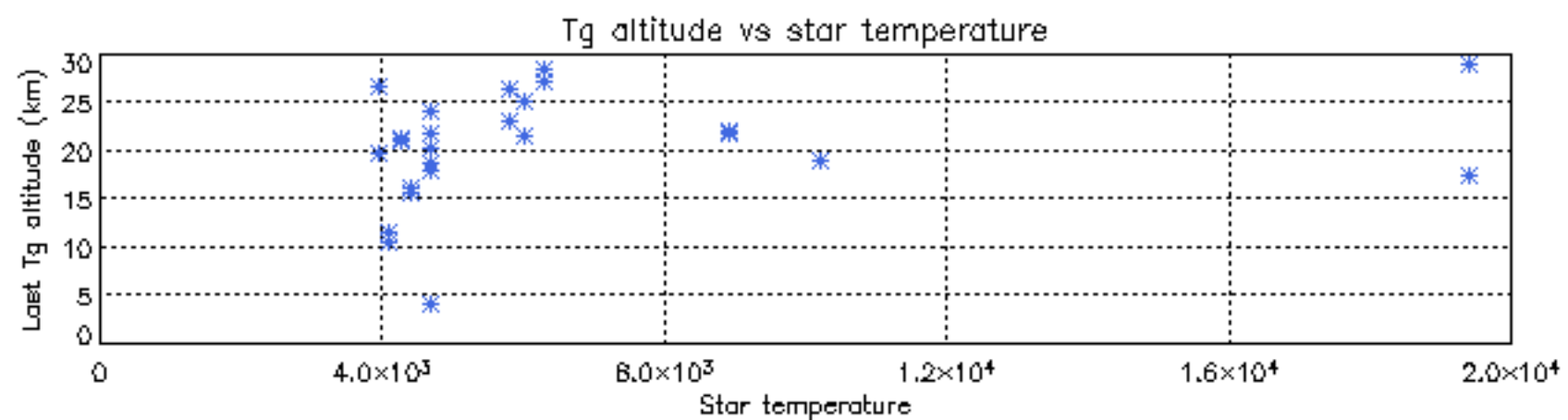
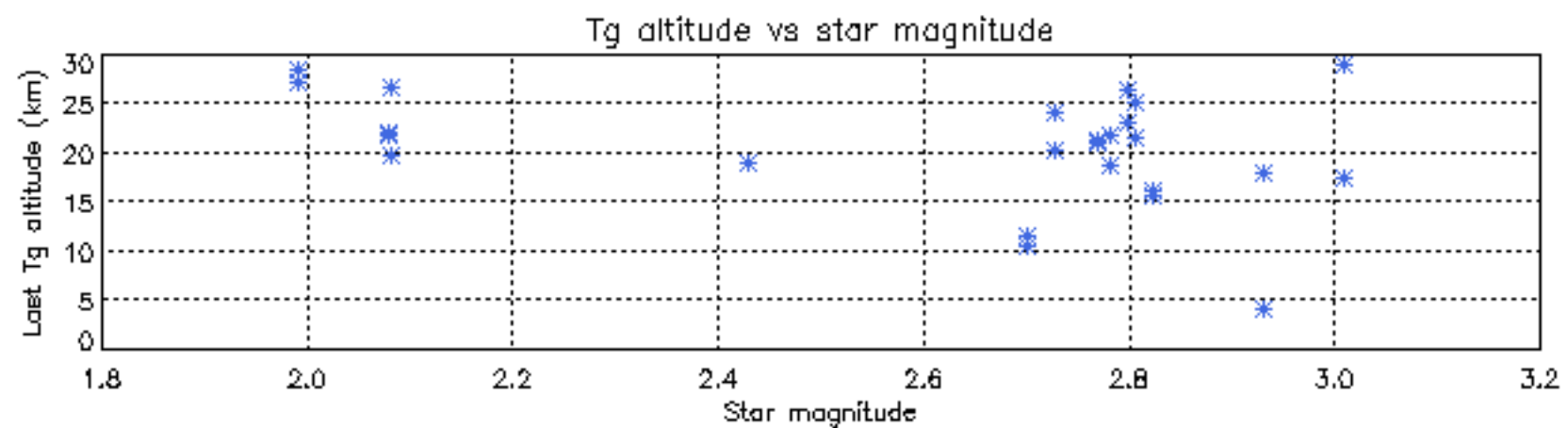
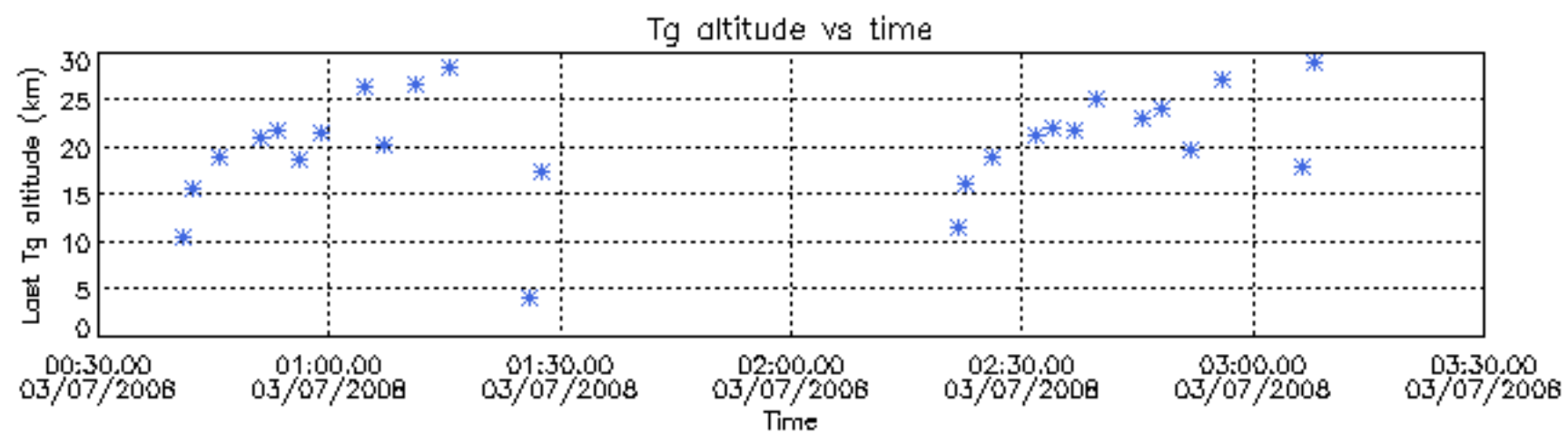
Percentage of saturation errors per profile



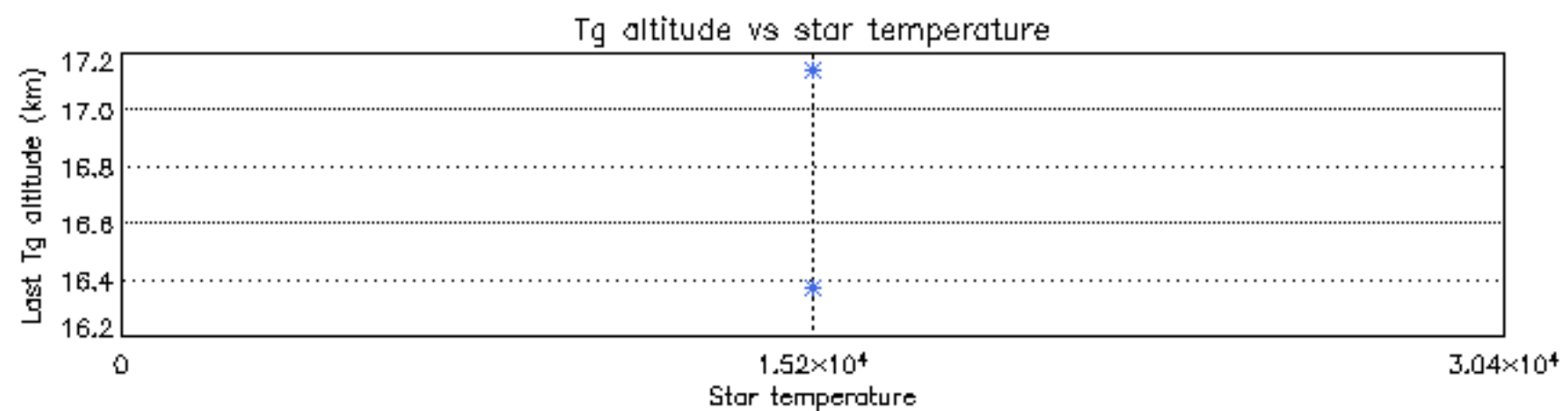
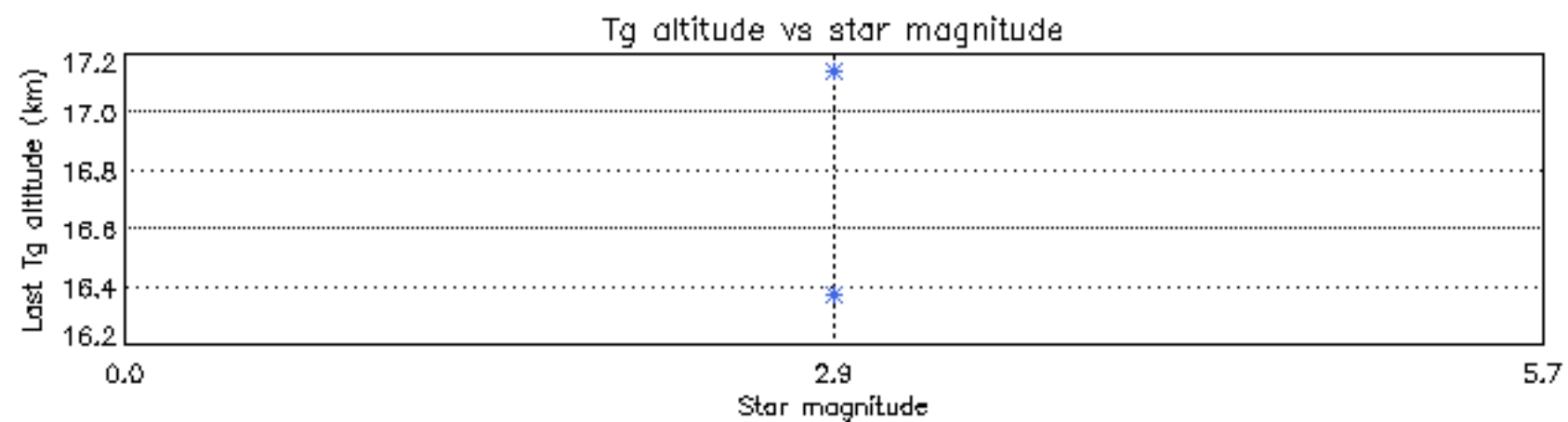
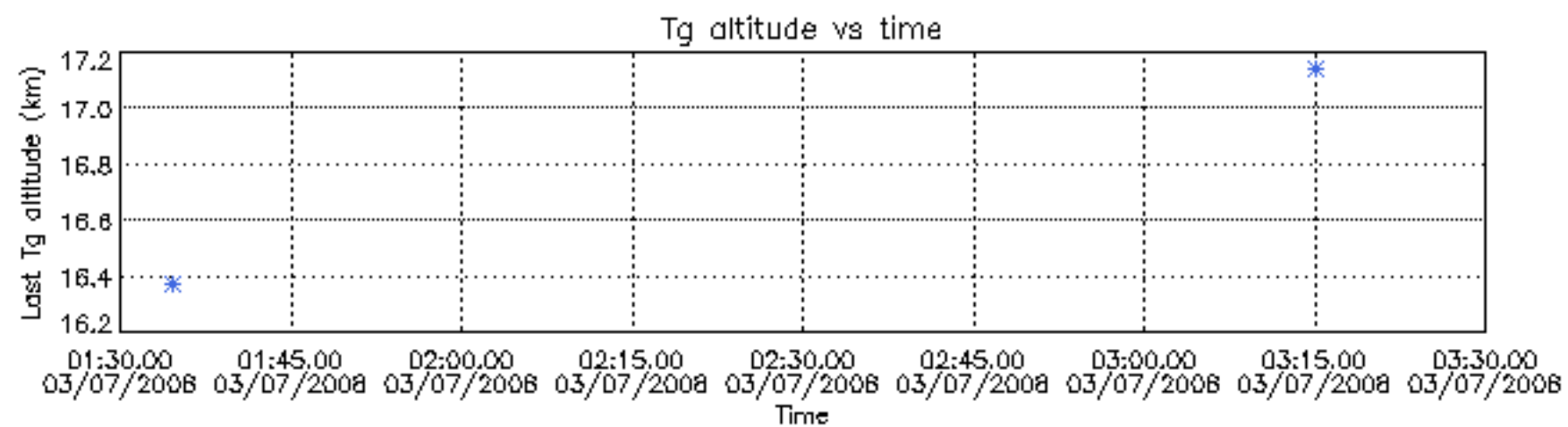
Tangent altitude at which the star is lost

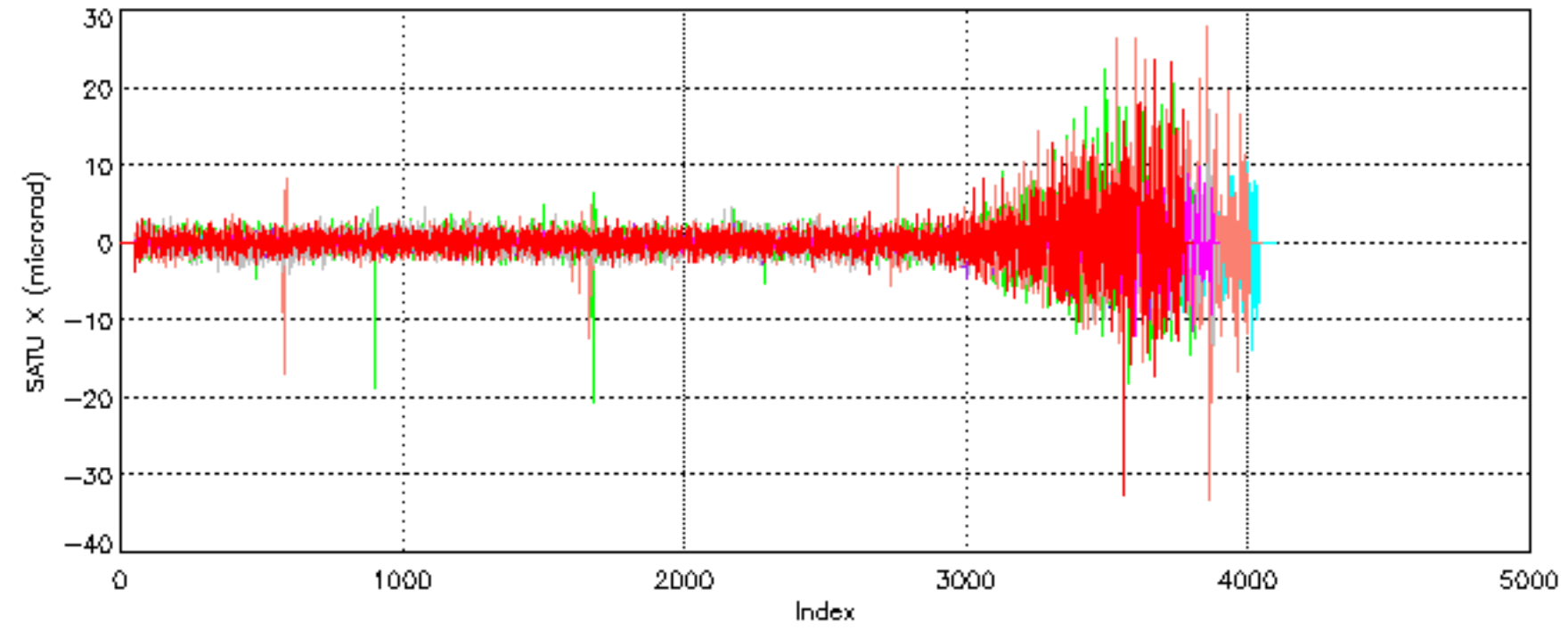


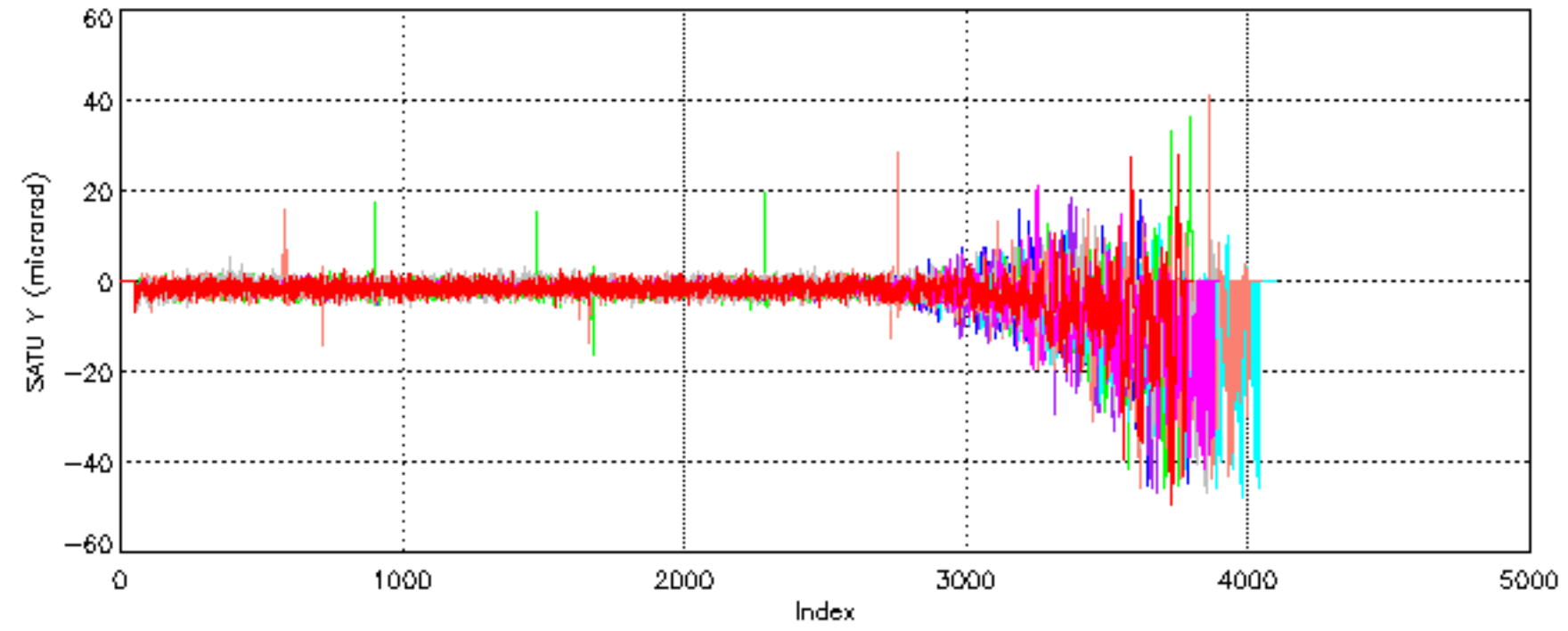
Tangent altitude at which the star is lost

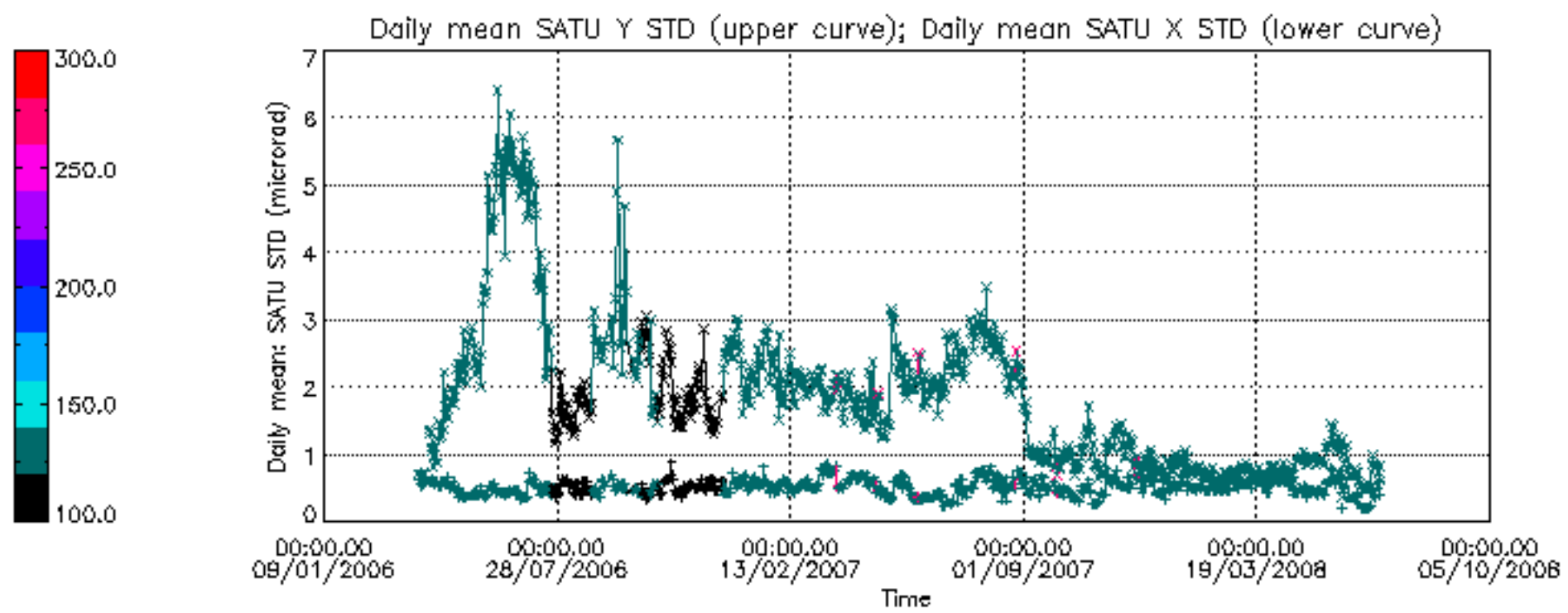


Tangent altitude at which the star is lost









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 7; 1982.1; 01-JUL-2008 20:20:20; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;33134
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 9; 2286.4; 01-JUL-2008 20:25:24; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33134
 10; 2449.5; 01-JUL-2008 20:28:08; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33134
 11; 2806.8; 01-JUL-2008 20:34:05; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33134
 12; 2953.3; 01-JUL-2008 20:36:31; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33134
 13; 3194.0; 01-JUL-2008 20:40:32; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;33134
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 17; 4295.5; 01-JUL-2008 20:58:54; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;33134
 18; 4582.1; 01-JUL-2008 21:03:40; Dark ; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;33134
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 18; 3194.3; 02-JUL-2008 00:01:44; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33136
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 4; 1065.9; 01-JUL-2008 10:01:28; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;33128
 5; 1174.1; 01-JUL-2008 10:03:17; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33128
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13; 2784.6; 24-JUL-2008 00:03:33; Bright; 34.0; 69; 33Gam Dra ; 2.23; 3800;occ; 68; 0;33451
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 13; 662.8; 23-JUL-2008 08:22:48; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33442
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 5; 4196.3; 23-JUL-2008 09:21:41; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;33442
 6; 4430.8; 23-JUL-2008 09:25:36; Bright; 38.5; 114; 3Iot Aur ; 2.69; 4600;occ; 77; 0;33442
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 19; 7427.9; 23-JUL-2008 10:15:33; Dark ; 46.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 92; 0;33442
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4; 2811.1; 25-JUL-2008 09:35:58; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;33471
5; 3442.2; 25-JUL-2008 09:46:29; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33471
6; 4198.1; 25-JUL-2008 09:59:05; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;33471
7; 4434.4; 25-JUL-2008 10:03:01; Bright; 50.5; 114; 3Iot Aur ; 2.69; 4600;occ; 101; 0;33471
8; 4757.6; 25-JUL-2008 10:08:24; Dark ; 55.0; 13; 87Alp Tau ; 0.87; 3800;occ; 110; 0;33471
9; 4882.0; 25-JUL-2008 10:10:29; Dark ; 37.0; 27; 24Gam Ori ; 1.64; 26000;occ; 74; 0;33471

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 13; 5676.0; 25-JUL-2008 10:23:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33471
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 17; 6713.1; 25-JUL-2008 10:41:00; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33471
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 4; 2811.2; 25-JUL-2008 11:16:34; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33472
 5; 3442.3; 25-JUL-2008 11:27:05; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33472
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 7; 4434.5; 25-JUL-2008 11:43:37; Bright; 40.5; 114; 3Iot Aur ; 2.69; 4600;occ; 81; 0;33472
 8; 4758.0; 25-JUL-2008 11:49:01; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;33472
 9; 4882.3; 25-JUL-2008 11:51:05; Dark ; 39.5; 27; 24Gam Ori ; 1.64; 26000;occ; 79; 0;33472
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 11; 5137.5; 25-JUL-2008 11:55:20; Dark ; 42.5; 7; 19Bet Ori ; 0.10; 14000;occ; 85; 0;33472
 12; 5274.7; 25-JUL-2008 11:57:37; Dark ; 40.0; 101; 11Alp Lep ; 2.58; 7000;occ; 80; 0;33472
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 16; 6439.1; 25-JUL-2008 12:17:02; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;33472
 17; 6713.6; 25-JUL-2008 12:21:36; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33472
 18; 6905.5; 25-JUL-2008 12:24:48; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;33472
 19; 7433.5; 25-JUL-2008 12:33:36; Dark ; 44.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 88; 0;33472
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 3; 2718.7; 25-JUL-2008 12:55:37; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;33473
 4; 2811.3; 25-JUL-2008 12:57:10; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;33473
 5; 3442.2; 25-JUL-2008 13:07:41; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33473
 6; 4198.1; 25-JUL-2008 13:20:17; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;33473
 7; 4434.6; 25-JUL-2008 13:24:13; Bright; 41.5; 114; 3Iot Aur ; 2.69; 4600;occ; 83; 0;33473
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 9; 4882.6; 25-JUL-2008 13:31:41; Dark ; 41.0; 27; 24Gam Ori ; 1.64; 26000;occ; 82; 0;33473
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 12; 5274.9; 25-JUL-2008 13:38:13; Dark ; 38.5; 101; 11Alp Lep ; 2.58; 7000;occ; 77; 0;33473
 13; 5677.2; 25-JUL-2008 13:44:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33473
 14; 5931.6; 25-JUL-2008 13:49:10; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;33473
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 17; 6714.1; 25-JUL-2008 14:02:13; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33473
 18; 6906.1; 25-JUL-2008 14:05:25; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;33473
 19; 7433.7; 25-JUL-2008 14:14:12; Dark ; 39.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 78; 0;33473
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 4; 2718.4; 25-JUL-2008 14:36:13; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;33474
 5; 2811.6; 25-JUL-2008 14:37:46; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;33474
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 7; 4198.3; 25-JUL-2008 15:00:53; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;33474
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 9; 4758.7; 25-JUL-2008 15:10:13; Dark ; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;33474
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 13; 5275.3; 25-JUL-2008 15:18:50; Dark ; 39.5; 101; 11Alp Lep ; 2.58; 7000;occ; 79; 0;33474
 14; 5677.8; 25-JUL-2008 15:25:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33474

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16; 6283.6; 25-JUL-2008 15:35:38; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;33474
17; 6439.6; 25-JUL-2008 15:38:14; Dark ; 36.0; 135; Bet Hyi ; 2.82; 5800;occ; 72; 0;33474
18; 6714.7; 25-JUL-2008 15:42:49; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33474
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 14; 3128.3; 26-JUL-2008 02:27:14; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;33481
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 3;-1275.2; 26-JUL-2008 02:54:27; Dark ; 54.5; 13; 87Alp Tau ; 0.87; 3800;occ; 109; 0;33481
 4;-1151.2; 26-JUL-2008 02:56:31; Dark ; 39.0; 27; 24Gam Ori ; 1.64; 26000;occ; 78; 0;33481
 5;-1035.9; 26-JUL-2008 02:58:26; Dark ; 37.5; 30; 46Eps Ori ; 1.69; 30000;occ; 75; 0;33481
 6; -895.2; 26-JUL-2008 03:00:47; Dark ; 40.0; 7; 19Bet Ori ; 0.10; 14000;occ; 80; 0;33481
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 9; -354.0; 26-JUL-2008 03:09:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33481
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 12; 682.0; 26-JUL-2008 03:27:04; Dark ; 44.5; 148; Alp Tuc ; 2.88; 4100;occ; 89; 0;33482
 13; 875.0; 26-JUL-2008 03:30:17; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;33482
 14; 1399.4; 26-JUL-2008 03:39:01; Dark ; 43.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 86; 0;33482
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 3;-1274.8; 26-JUL-2008 04:35:03; Dark ; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;33482
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 19; 3127.6; 26-JUL-2008 05:48:25; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;33483
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 5; 2712.8; 26-JUL-2008 20:46:54; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;33492
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13; 5144.6; 26-JUL-2008 21:27:26; Dark ; 39.0; 7; 19Bet Ori ; 0.10; 14000;occ; 78; 0;33492
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 3; -347.4; 26-JUL-2008 21:36:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33492
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 6; 687.1; 26-JUL-2008 21:53:44; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33493
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 8; 1544.9; 26-JUL-2008 22:08:02; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;33493
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11; 2712.4; 26-JUL-2008 22:27:30; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;33493
12; 3122.6; 26-JUL-2008 22:34:20; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;33493
13; 3442.0; 26-JUL-2008 22:39:39; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;33493
14; 4199.1; 26-JUL-2008 22:52:16; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;33493
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19; 5145.0; 26-JUL-2008 23:08:02; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;33493
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11; 2712.1; 27-JUL-2008 00:08:05; Bright; 37.0; 144; 18Del Cyg ; 2.86; 11000;occ; 74; 0;33494
12; 3122.1; 27-JUL-2008 00:14:55; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;33494
13; 3441.9; 27-JUL-2008 00:20:15; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33494
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6; 3098.3; 30-JUL-2008 15:25:39; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;33546
7; 3441.4; 30-JUL-2008 15:31:22; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;33546
8; 4200.8; 30-JUL-2008 15:44:02; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;33546
9; 4512.2; 30-JUL-2008 15:49:13; Dark ; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;33546
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12; 4904.6; 30-JUL-2008 15:55:46; Dark ; 42.5; 27; 24Gam Ori ; 1.64; 26000;occ; 85; 0;33546
13; 5019.5; 30-JUL-2008 15:57:40; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;33546
14; 5166.2; 30-JUL-2008 16:00:07; Dark ; 44.0; 7; 19Bet Ori ; 0.10; 14000;occ; 88; 0;33546
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16; 5723.0; 30-JUL-2008 16:09:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33546
17; 5997.2; 30-JUL-2008 16:13:58; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;33546
18; 6332.4; 30-JUL-2008 16:19:33; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;33546
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3; 2144.4; 30-JUL-2008 16:50:21; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;33547
4; 2569.0; 30-JUL-2008 16:57:26; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;33547
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6; 2656.4; 30-JUL-2008 18:39:29; Bright; 40.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 81; 0;33548
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4; 713.8; 31-JUL-2008 00:49:30; Dark ; 47.5; 148; Alp Tuc ; 2.88; 4100;occ; 95; 0;33552
5; 913.8; 31-JUL-2008 00:52:50; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;33552

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11; 2654.6; 31-JUL-2008 01:21:51; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33552
12; 3095.6; 31-JUL-2008 01:29:12; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;33552
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16; 4512.9; 31-JUL-2008 01:52:50; Dark ; 46.0; 28; 12Bet Tau ; 1.65; 15200;occ; 92; 0;33552
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21; 5168.5; 31-JUL-2008 02:03:45; Dark ; 7.5; 7; 19Bet Ori ; 0.10; 14000;occ; 15; 0;33552
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5; 300.5; 31-JUL-2008 02:23:13; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;33553
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7; 914.4; 31-JUL-2008 02:33:27; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;33553
8; 1103.3; 31-JUL-2008 02:36:36; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;33553
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13; 2654.3; 31-JUL-2008 03:02:27; Bright; 41.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 82; 0;33553
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12; 301.9; 31-JUL-2008 05:44:26; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;33555
13; 715.2; 31-JUL-2008 05:51:20; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33555

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19; 2653.6; 31-JUL-2008 06:23:38; Bright; 39.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 79; 0;33555
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13; 4639.8; 31-JUL-2008 22:02:08; Dark ; 38.0; 176; 23Zet Tau ; 3.02; 22000;occ; 76; 0;33564
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