

GOMOS Daily Report 17-JUL-2007

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	19JUL2007 05:39:06
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (17JUL2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (18JUL2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	40
Nb of prods with errors	1

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

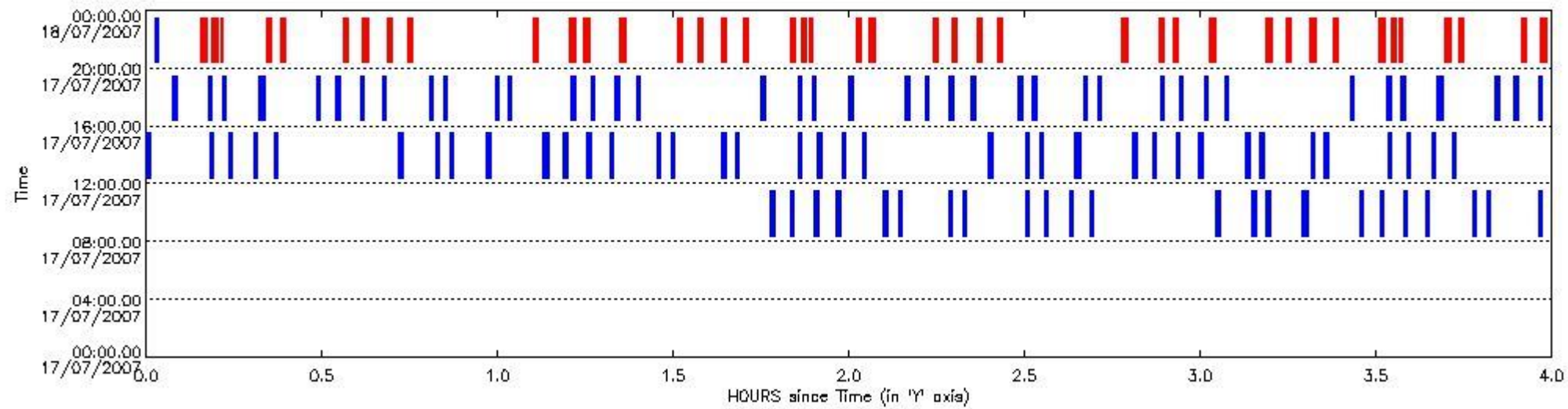
2.1 Level 0 products arrived in PCF (see template [here](#))

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
17-JUL-2007 20:09:22	20EpsSgr	38	28124
17-JUL-2007 20:11:15	34SigSgr	57	28124
17-JUL-2007 20:12:37	41PiSgr	155	28124
17-JUL-2007 20:20:34	60BetOph	126	28124
17-JUL-2007 20:22:51	55AlpOph	59	28124
17-JUL-2007 20:33:38	33GamDra	69	28124
17-JUL-2007 20:36:56	14EtaDra	119	28124
17-JUL-2007 20:41:10	7BetUMi	60	28124
17-JUL-2007 20:44:39	1AlpUMi	49	28124
17-JUL-2007 21:05:59	87AlpTau	13	28124
17-JUL-2007 21:12:19	19BetOri	7	28124
17-JUL-2007 21:14:44	11AlpLep	101	28124
17-JUL-2007 21:20:51	DSA1061	0	28124
17-JUL-2007 21:30:40	AlpEri	9	28125
17-JUL-2007 21:34:04	BetHyi	135	28125

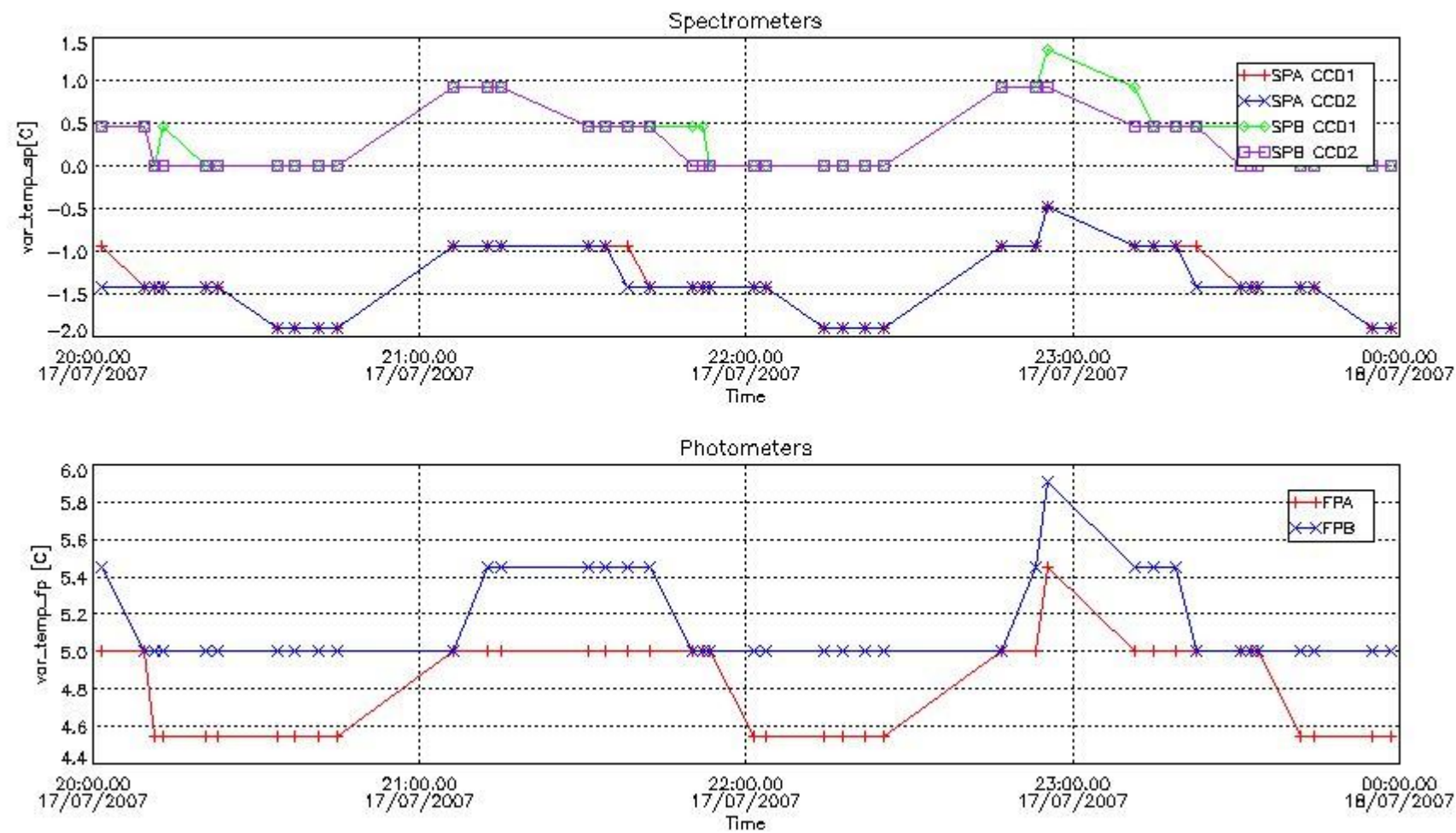
17-JUL-2007 21:38:09	AlpTuc	148	28125
17-JUL-2007 21:41:58	AlpPav	45	28125
17-JUL-2007 21:49:58	20EpsSgr	38	28125
17-JUL-2007 21:51:52	34SigSgr	57	28125
17-JUL-2007 21:53:13	41PiSgr	155	28125
17-JUL-2007 22:01:10	60BetOph	126	28125
17-JUL-2007 22:03:27	55AlpOph	59	28125
17-JUL-2007 22:14:14	33GamDra	69	28125
17-JUL-2007 22:17:32	14EtaDra	119	28125
17-JUL-2007 22:21:46	7BetUMi	60	28125
17-JUL-2007 22:25:15	1AlpUMi	49	28125
17-JUL-2007 22:46:36	87AlpTau	13	28125
17-JUL-2007 22:52:55	19BetOri	7	28125
17-JUL-2007 22:55:20	11AlpLep	101	28125
17-JUL-2007 23:01:28	DSA1061	0	28125
17-JUL-2007 23:11:17	AlpEri	9	28126
17-JUL-2007 23:14:41	BetHyi	135	28126
17-JUL-2007 23:18:45	AlpTuc	148	28126
17-JUL-2007 23:22:34	AlpPav	45	28126
17-JUL-2007 23:30:34	20EpsSgr	38	28126
17-JUL-2007 23:32:28	34SigSgr	57	28126
17-JUL-2007 23:33:50	41PiSgr	155	28126
17-JUL-2007 23:41:46	60BetOph	126	28126
17-JUL-2007 23:44:04	55AlpOph	59	28126
17-JUL-2007 23:54:50	33GamDra	69	28126
17-JUL-2007 23:58:08	14EtaDra	119	28126

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_1PNPDE20070717_200130_000000392060_00014_28124_9503.N1	17-JUL-2007 20:01:30	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	28124	No
2	GOM_TRA_1PNPDE20070717_200931_000000422060_00014_28124_9504.N1	17-JUL-2007 20:09:31	Twilight	41.500	38	20Eps Sgr	1.8360	11000.	83	28124	No
3	GOM_TRA_1PNPDE20070717_201124_000000392060_00014_28124_9505.N1	17-JUL-2007 20:11:24	Bright	39.000	57	34Sig Sgr	2.0660	26000.	78	28124	No
4	GOM_TRA_1PNPDE20070717_201246_000000282060_00014_28124_9506.N1	17-JUL-2007 20:12:46	Bright	28.000	155	41Pi Sgr	2.9000	6600.0	56	28124	No
5	GOM_TRA_1PNPDE20070717_202043_000000362060_00014_28124_9507.N1	17-JUL-2007 20:20:43	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	28124	No
6	GOM_TRA_1PNPDE20070717_202300_000000352060_00014_28124_9508.N1	17-JUL-2007 20:23:00	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	28124	No
7	GOM_TRA_1PNPDE20070717_203347_000000372060_00014_28124_9509.N1	17-JUL-2007 20:33:47	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	28124	No
8	GOM_TRA_1PNPDE20070717_203705_000000362060_00014_28124_9510.N1	17-JUL-2007 20:37:05	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	28124	No
9	GOM_TRA_1PNPDE20070717_204119_000000372060_00014_28124_9511.N1	17-JUL-2007 20:41:19	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	28124	No
10	GOM_TRA_1PNPDE20070717_204448_000000362060_00014_28124_9512.N1	17-JUL-2007 20:44:48	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	28124	No
11	GOM_TRA_1PNPDE20070717_210608_000000372060_00014_28124_9513.N1	17-JUL-2007 21:06:08	Twilight	36.500	13	87Alp Tau	0.86700	3800.0	73	28124	No
12	GOM_TRA_1PNPDE20070717_211227_000000382060_00014_28124_9514.N1	17-JUL-2007 21:12:27	Dark	38.000	7	19Bet Ori	0.10000	14000.	76	28124	No
13	GOM_TRA_1PNPDE20070717_211453_000000372060_00014_28124_9654.N1	17-JUL-2007 21:14:53	Dark	37.000	101	11Alp Lep	2.5820	7000.0	74	28124	No
14	GOM_TRA_1PNPDE20070717_213049_000000502060_00015_28125_9655.N1	17-JUL-2007 21:30:49	Dark	50.000	9	Alp Eri	0.45300	24000.	100	28125	No
15	GOM_TRA_1PNPDE20070717_213413_000000372060_00015_28125_9656.N1	17-JUL-2007 21:34:13	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28125	No
16	GOM_TRA_1PNPDE20070717_213818_000000422060_00015_28125_9657.N1	17-JUL-2007 21:38:18	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	28125	No
17	GOM_TRA_1PNPDE20070717_214207_000000392060_00015_28125_9658.N1	17-JUL-2007 21:42:07	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	28125	No
18	GOM_TRA_1PNPDE20070717_215007_000000402060_00015_28125_9659.N1	17-JUL-2007 21:50:07	Twilight	40.000	38	20Eps Sgr	1.8360	11000.	80	28125	No
19	GOM_TRA_1PNPDE20070717_215200_000000372060_00015_28125_9660.N1	17-JUL-2007 21:52:00	Bright	37.000	57	34Sig Sgr	2.0660	26000.	74	28125	No
20	GOM_TRA_1PNPDE20070717_215322_000000282060_00015_28125_9661.N1	17-JUL-2007 21:53:22	Bright	28.000	155	41Pi Sgr	2.9000	6600.0	56	28125	No
21	GOM_TRA_1PNPDE20070717_220119_000000362060_00015_28125_9662.N1	17-JUL-2007 22:01:19	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	28125	No
22	GOM_TRA_1PNPDE20070717_220336_000000362060_00015_28125_9663.N1	17-JUL-2007 22:03:36	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	28125	No
23	GOM_TRA_1PNPDE20070717_221423_000000362060_00015_28125_9664.N1	17-JUL-2007 22:14:23	Bright	36.000	69	33Gam Dra	2.2310	3800.0	72	28125	No
24	GOM_TRA_1PNPDE20070717_221741_000000332060_00015_28125_9665.N1	17-JUL-2007 22:17:41	Bright	33.000	119	14Eta Dra	2.7270	4700.0	66	28125	No
25	GOM_TRA_1PNPDE20070717_222155_000000342060_00015_28125_9666.N1	17-JUL-2007 22:21:55	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	28125	No
26	GOM_TRA_1PNPDE20070717_222524_000000362060_00015_28125_9667.N1	17-JUL-2007 22:25:24	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28125	No
27	GOM_TRA_1PNPDE20070717_224644_000000372060_00015_28125_9668.N1	17-JUL-2007 22:46:44	Twilight	37.000	13	87Alp Tau	0.86700	3800.0	74	28125	No
28	GOM_TRA_1PNPDE20070717_225303_000000442060_00015_28125_9669.N1	17-JUL-2007 22:53:03	Dark	44.000	7	19Bet Ori	0.10000	14000.	88	28125	No

29	GOM_TRA_1PNPDE20070717_225529_000000392060_00015_28125_9811.N1	17-JUL-2007 22:55:29	Dark	38.500	101	11Alp Lep	2.5820	7000.0	77	28125	Yes
30	GOM_TRA_1PNPDE20070717_231126_000000422060_00016_28126_9812.N1	17-JUL-2007 23:11:26	Dark	41.500	9	Alp Eri	0.45300	24000.	83	28126	No
31	GOM_TRA_1PNPDE20070717_231449_000000382060_00016_28126_9813.N1	17-JUL-2007 23:14:49	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	28126	No
32	GOM_TRA_1PNPDE20070717_231854_000000432060_00016_28126_9814.N1	17-JUL-2007 23:18:54	Straylight	43.000	148	Alp Tuc	2.8780	4100.0	86	28126	No
33	GOM_TRA_1PNPDE20070717_232243_000000402060_00016_28126_9815.N1	17-JUL-2007 23:22:43	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	28126	No
34	GOM_TRA_1PNPDE20070717_233043_000000392060_00016_28126_9816.N1	17-JUL-2007 23:30:43	Twilight_stray	39.000	38	20Eps Sgr	1.8360	11000.	78	28126	No
35	GOM_TRA_1PNPDE20070717_233236_000000392060_00016_28126_9817.N1	17-JUL-2007 23:32:36	Bright	38.500	57	34Sig Sgr	2.0660	26000.	77	28126	No
36	GOM_TRA_1PNPDE20070717_233358_000000382060_00016_28126_9818.N1	17-JUL-2007 23:33:58	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	28126	No
37	GOM_TRA_1PNPDE20070717_234155_000000362060_00016_28126_9819.N1	17-JUL-2007 23:41:55	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	28126	No
38	GOM_TRA_1PNPDE20070717_234412_000000352060_00016_28126_9820.N1	17-JUL-2007 23:44:12	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	28126	No
39	GOM_TRA_1PNPDE20070717_235459_000000342060_00016_28126_9821.N1	17-JUL-2007 23:54:59	Bright	33.500	69	33Gam Dra	2.2310	3800.0	67	28126	No
40	GOM_TRA_1PNPDE20070717_235817_000000362060_00016_28126_9822.N1	17-JUL-2007 23:58:17	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	28126	No

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



4. Overview of dark signal processing per product

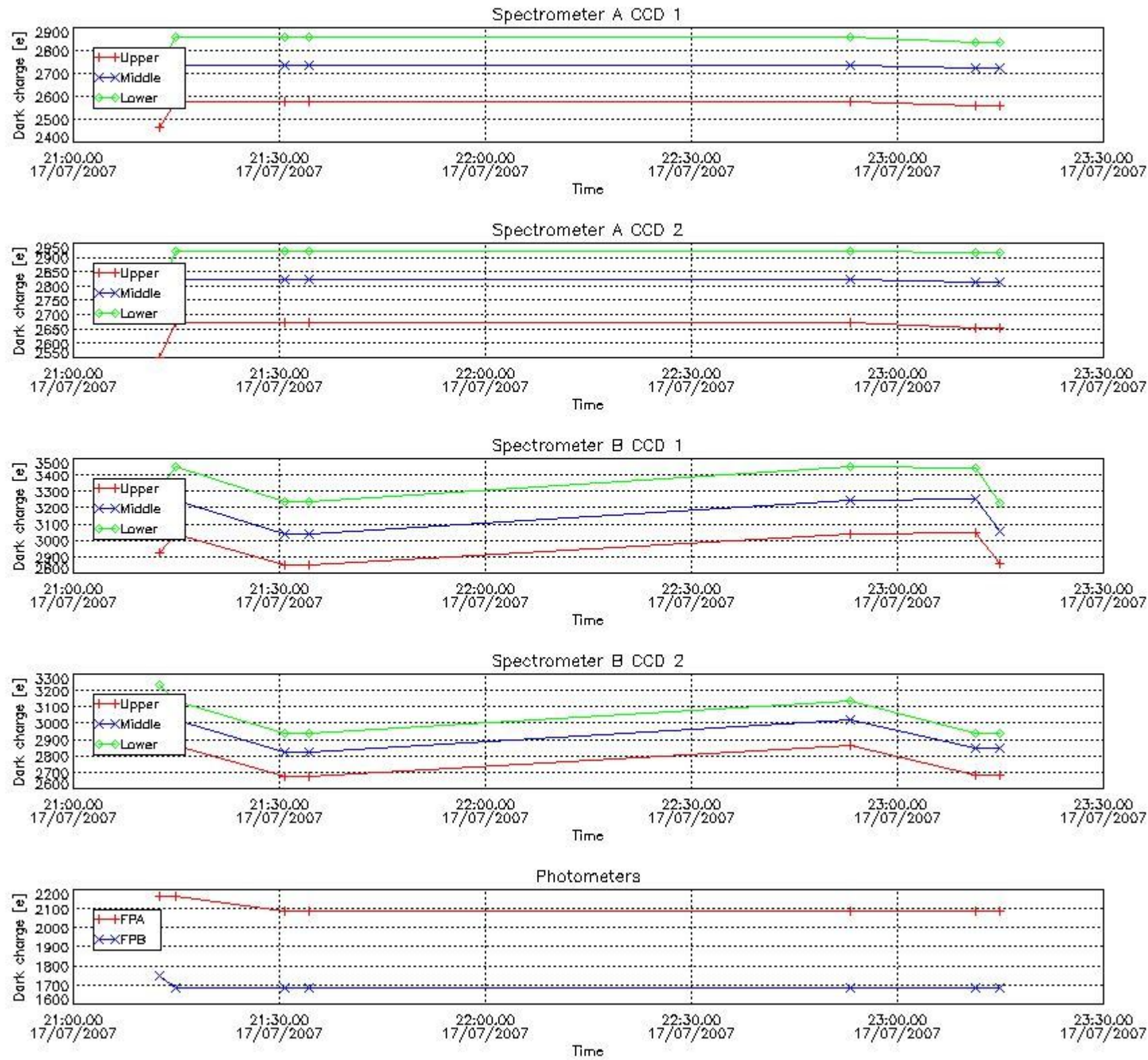
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20070717_200130_000000392060_00014_28124_9503.N1	DC map used
GOM_TRA_1PNPDE20070717_200931_000000422060_00014_28124_9504.N1	DC map used
GOM_TRA_1PNPDE20070717_201124_000000392060_00014_28124_9505.N1	DC map used
GOM_TRA_1PNPDE20070717_201246_000000282060_00014_28124_9506.N1	DC map used
GOM_TRA_1PNPDE20070717_202043_000000362060_00014_28124_9507.N1	DC map used
GOM_TRA_1PNPDE20070717_202300_000000352060_00014_28124_9508.N1	DC map used
GOM_TRA_1PNPDE20070717_203347_000000372060_00014_28124_9509.N1	DC map used
GOM_TRA_1PNPDE20070717_203705_000000362060_00014_28124_9510.N1	DC map used
GOM_TRA_1PNPDE20070717_204119_000000372060_00014_28124_9511.N1	DC map used
GOM_TRA_1PNPDE20070717_204448_000000362060_00014_28124_9512.N1	DC map used
GOM_TRA_1PNPDE20070717_210608_000000372060_00014_28124_9513.N1	DC map used
GOM_TRA_1PNPDE20070717_211227_000000382060_00014_28124_9514.N1	DC map used

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



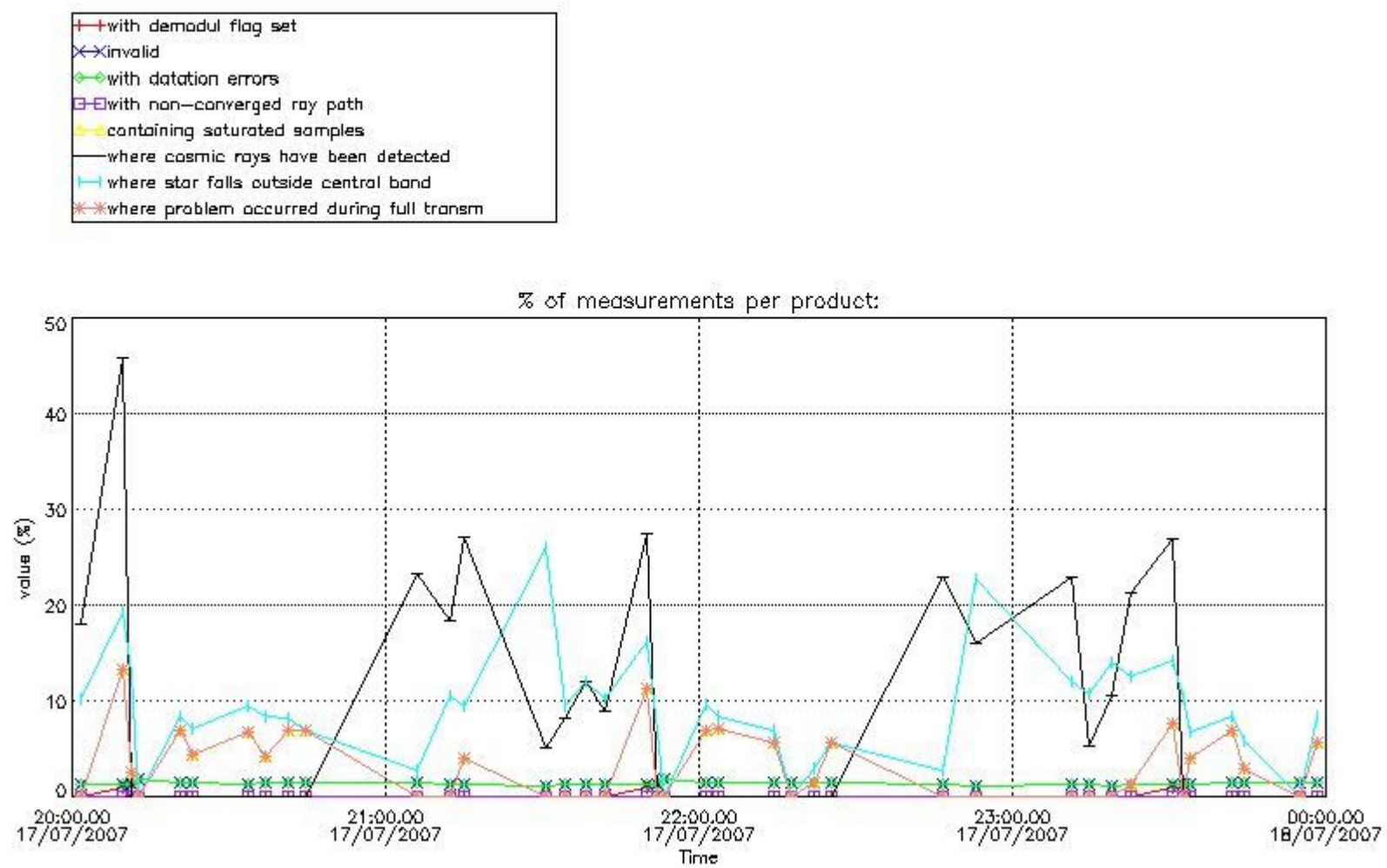
5. Demodulation flag and quality information monitoring

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.

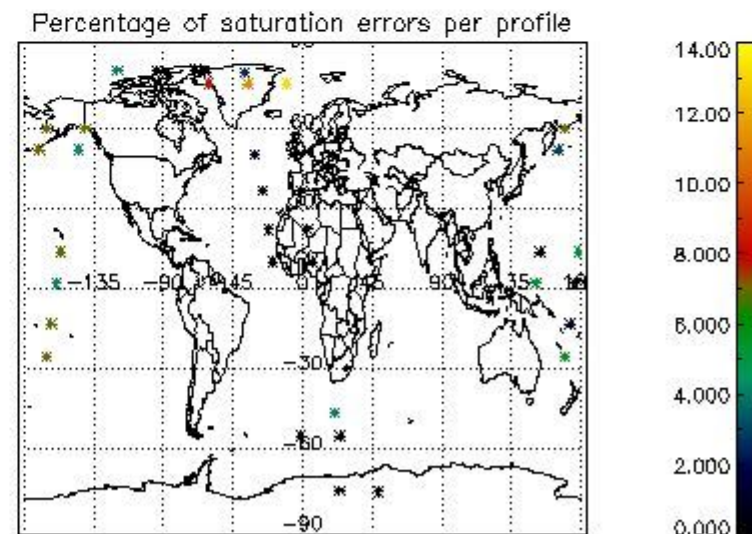
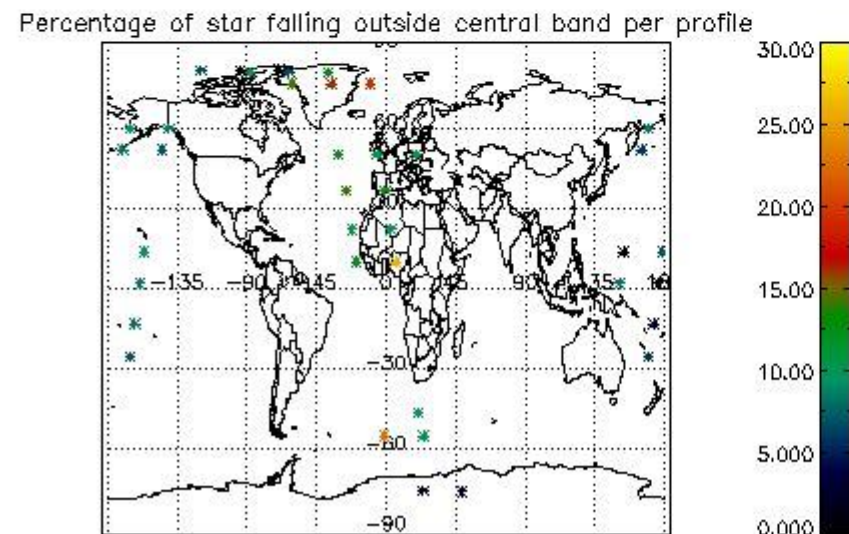
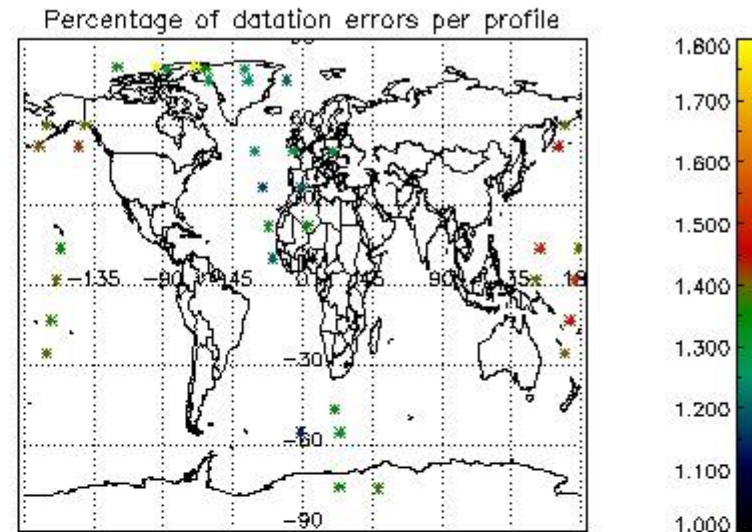
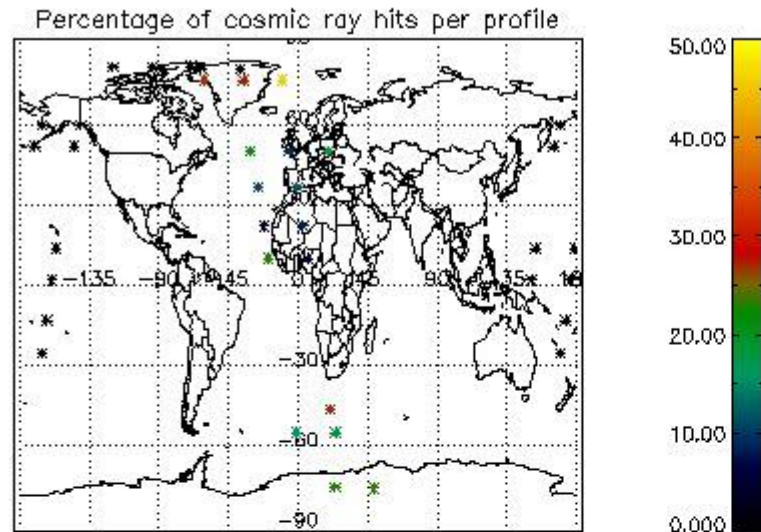
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	10.2564 %
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)



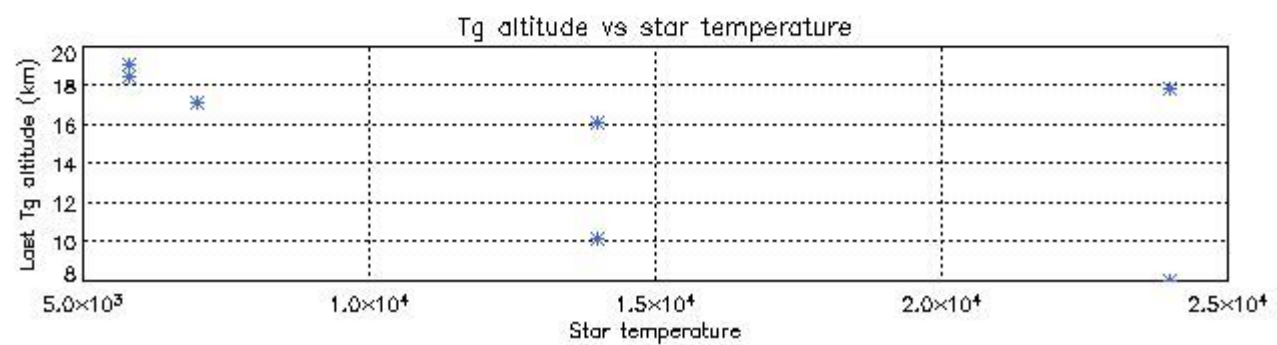
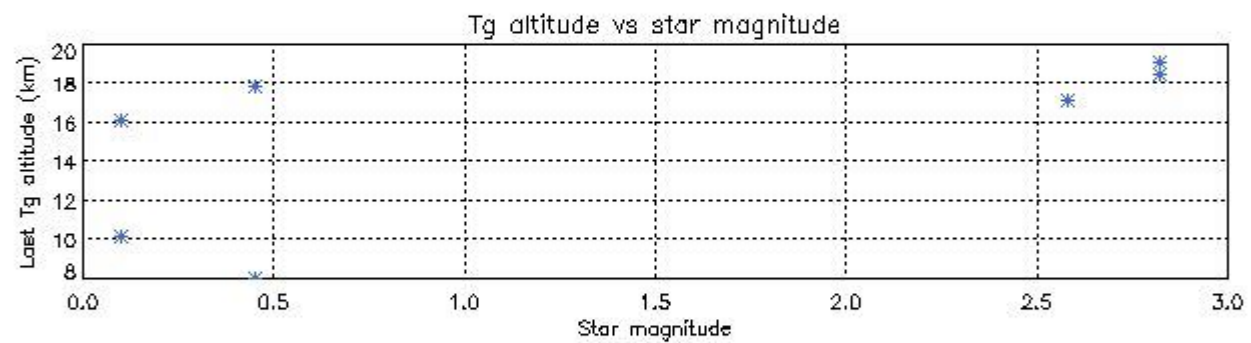
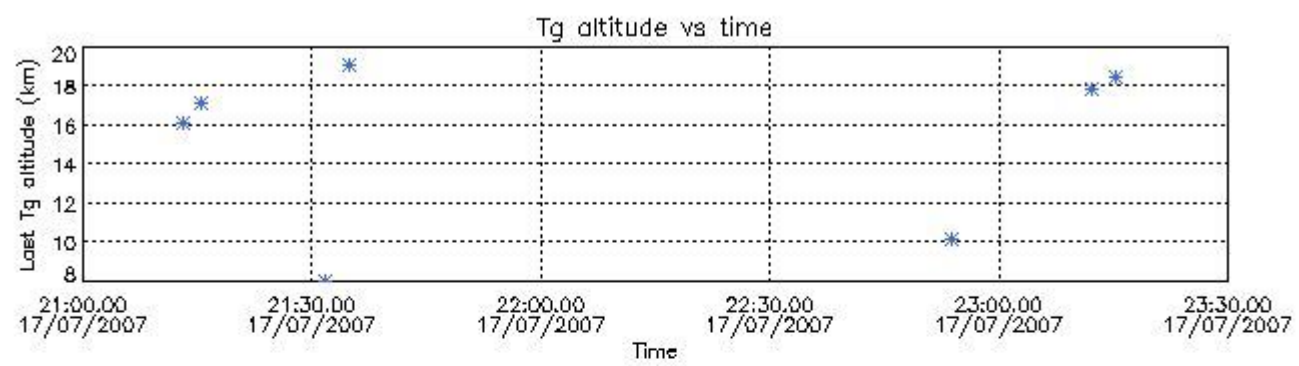
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.266	22.814	21.623
St. deviation:	4.3734	7.6722	0.61681
Maximum:	19.116	45.518	22.059
Minimum:	8.0291	16.582	21.187
Number of data:	7.0000	22.000	2.0000

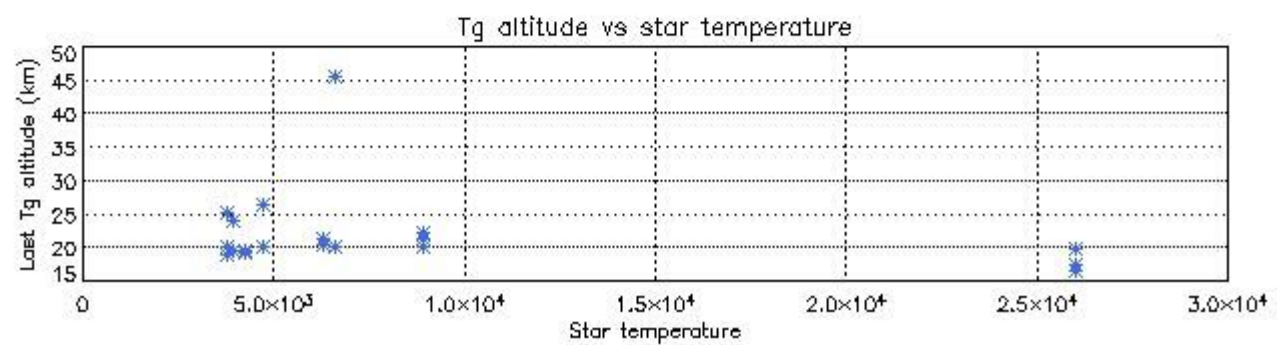
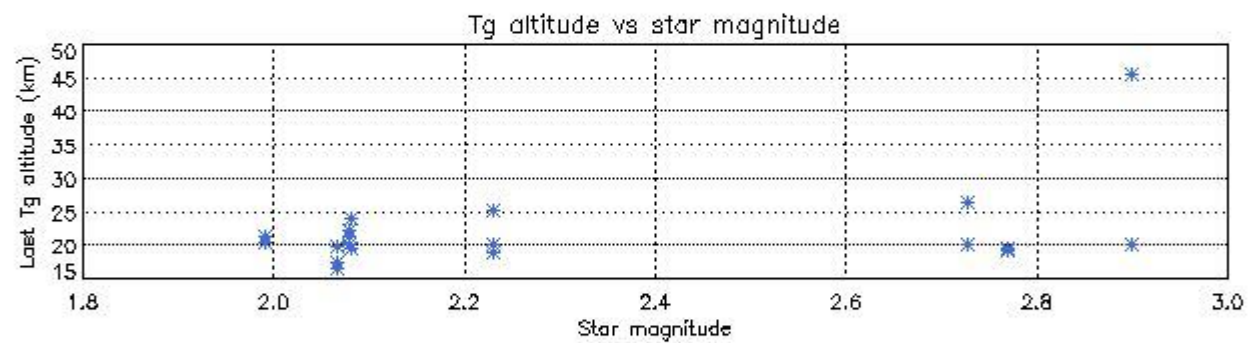
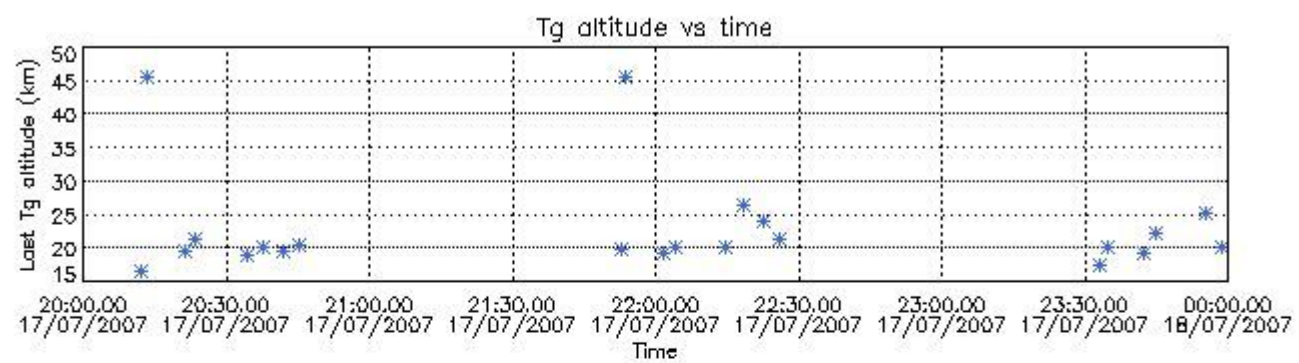
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



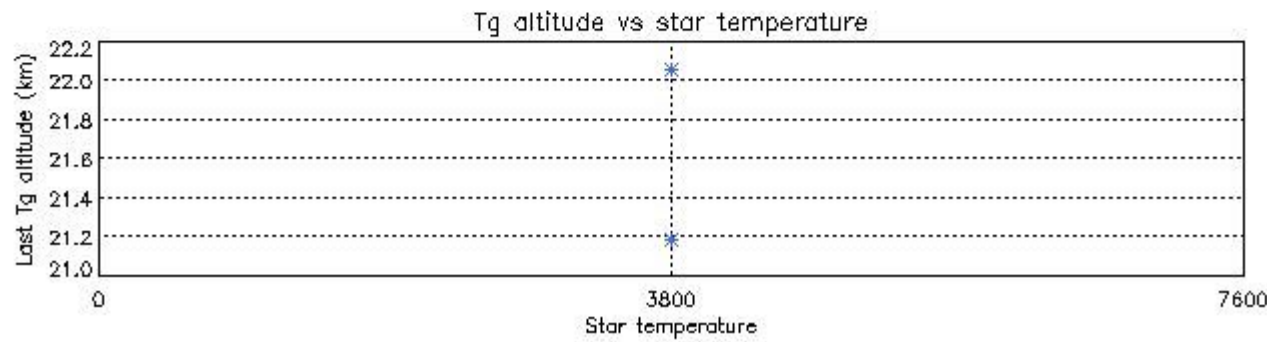
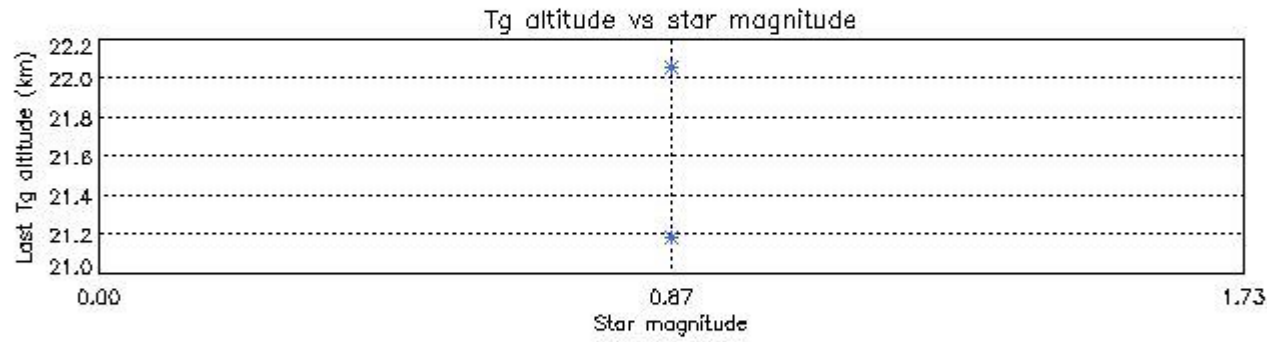
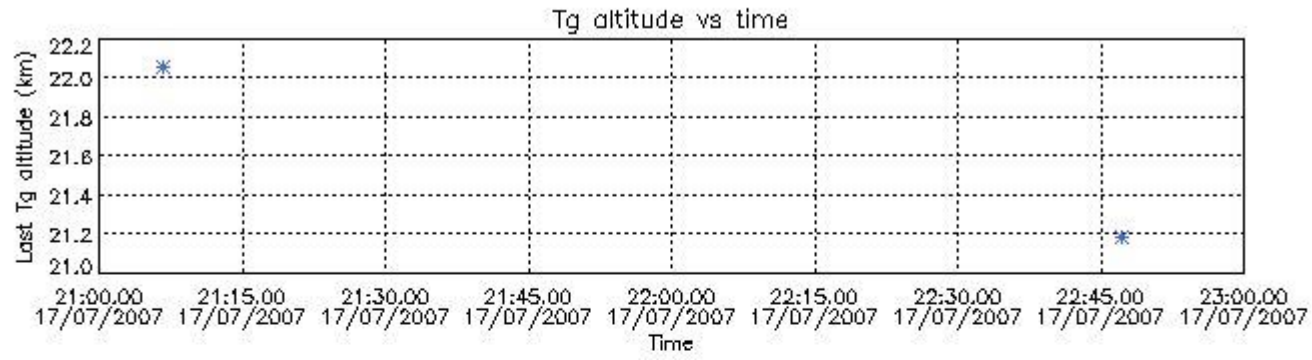
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

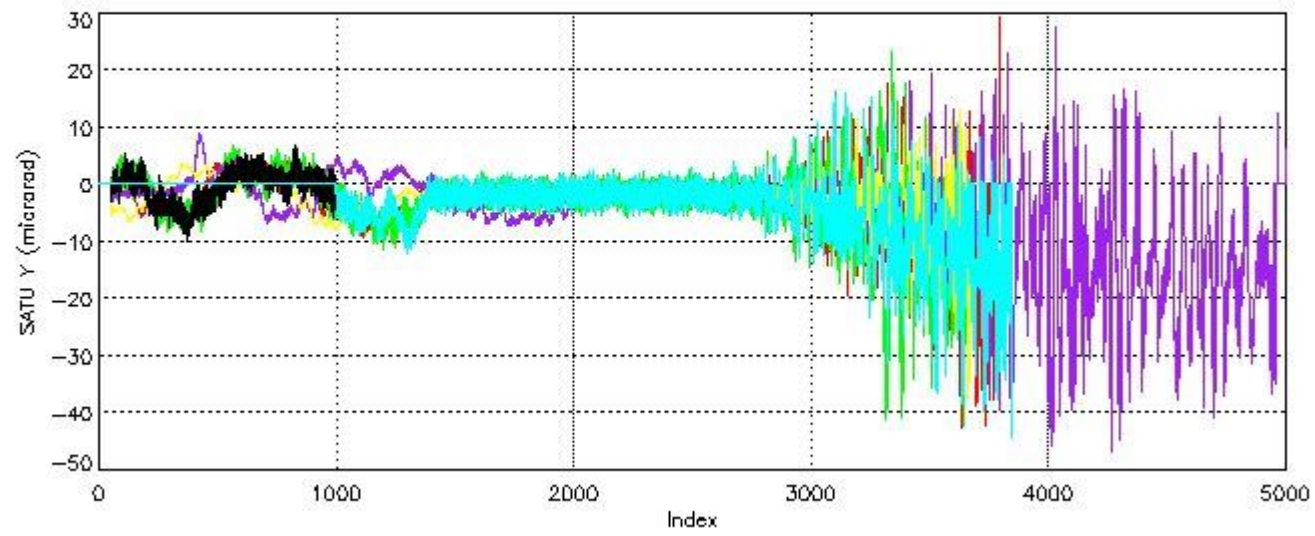
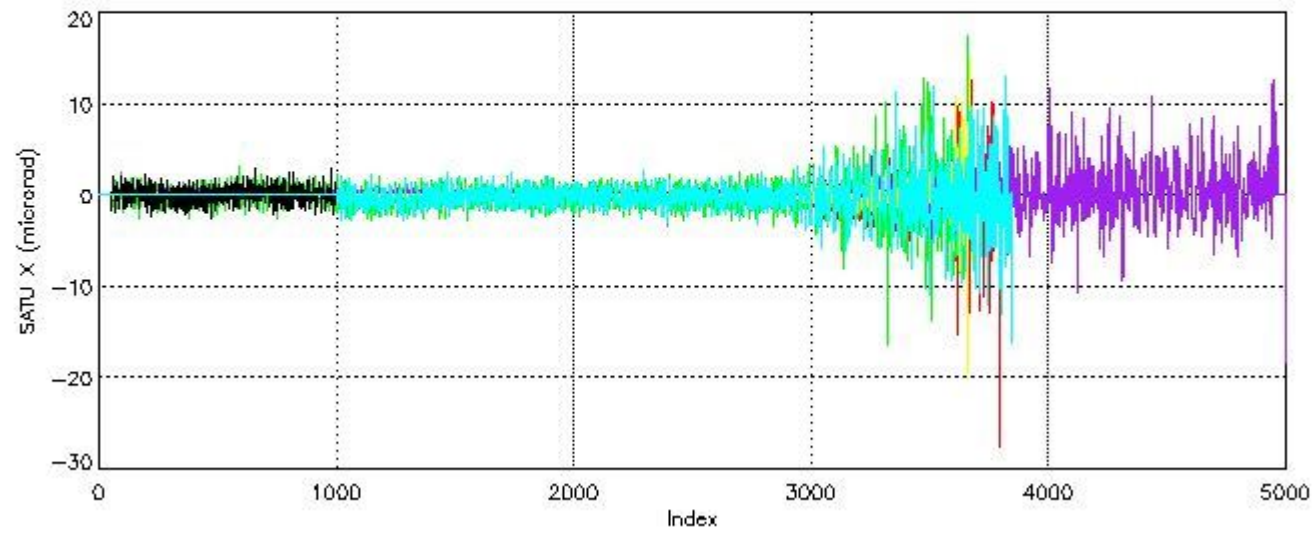


7. Star Acquisition and Tracking Unit (SATU)

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:	0.051409	-0.87705	0.049431	-1.0112
St. deviation:	0.48589	2.9810	0.68384	3.0096
Maximum:	3.1000	8.8000	4.0000	8.1000
Minimum:	-2.6000	-9.8000	-3.5000	-12.200

Number of data:	6100.0	6100.0	17900.	17900.
-----------------	--------	--------	--------	--------

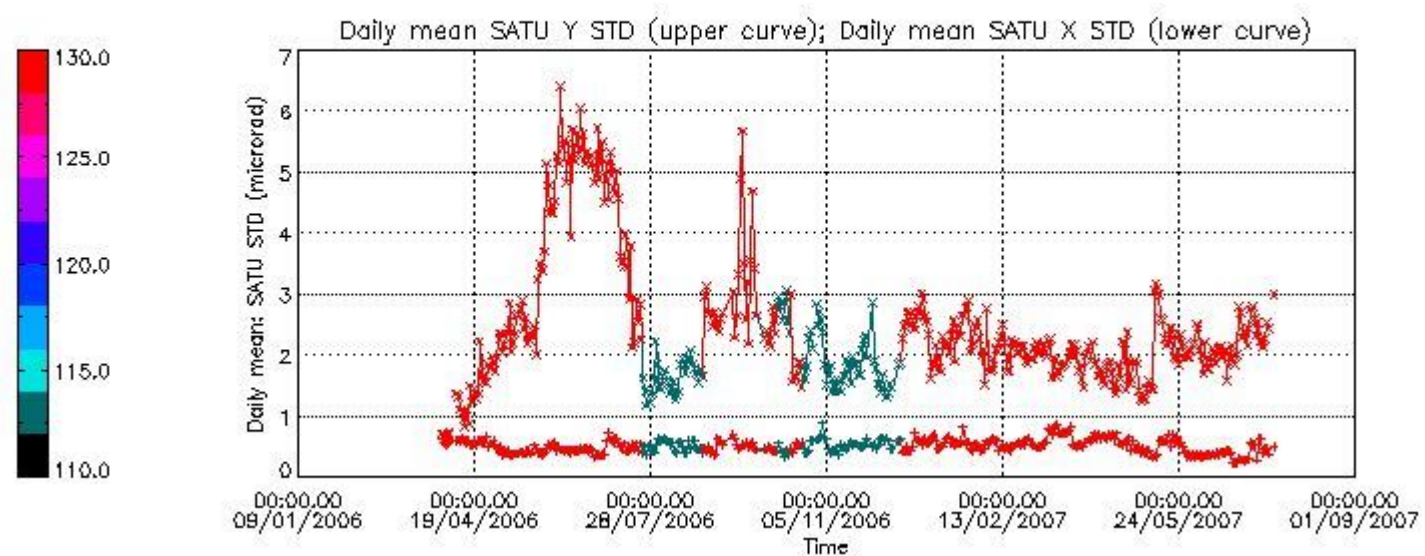
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

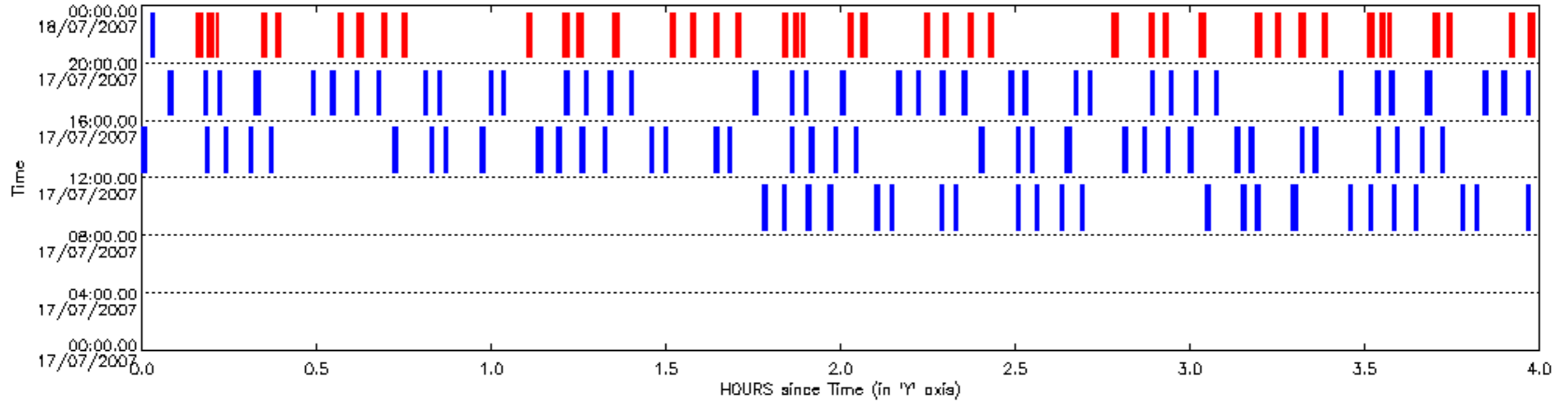
Lower curve: STD of SATU X axis

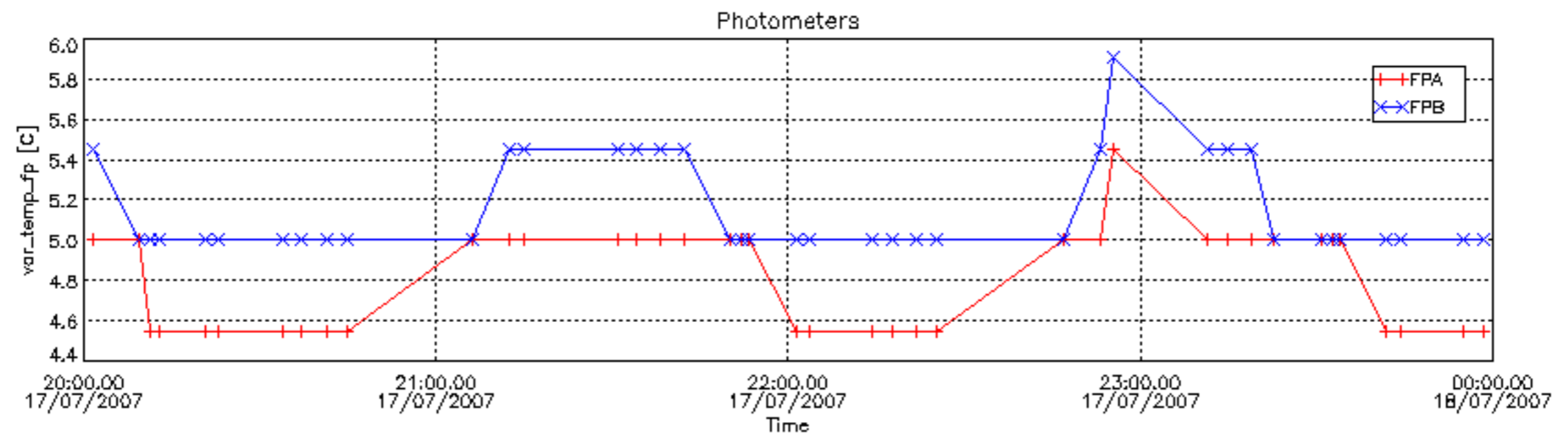
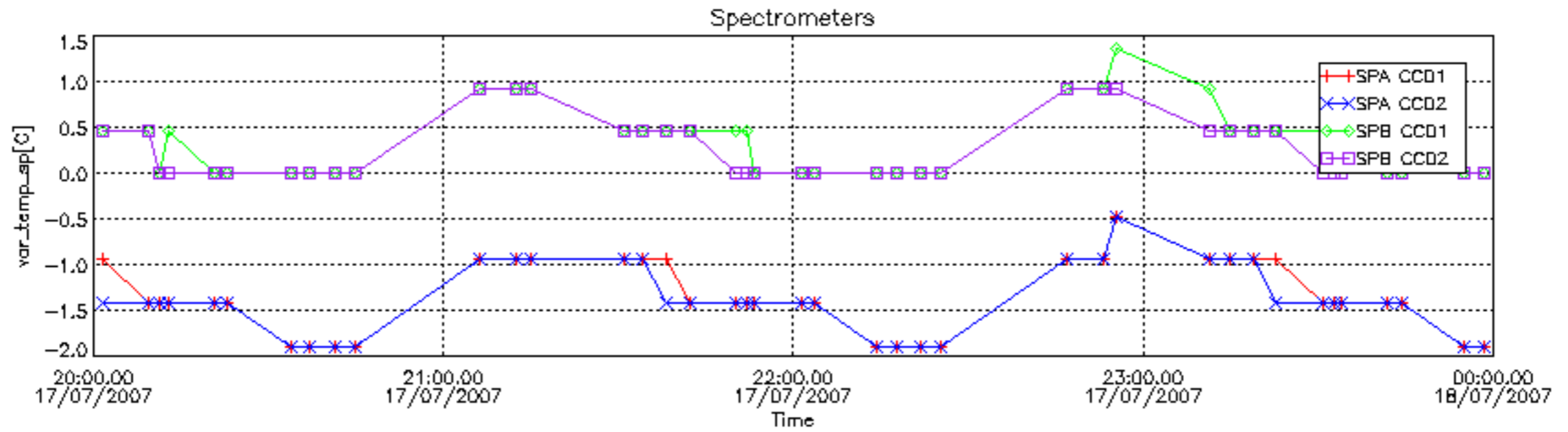


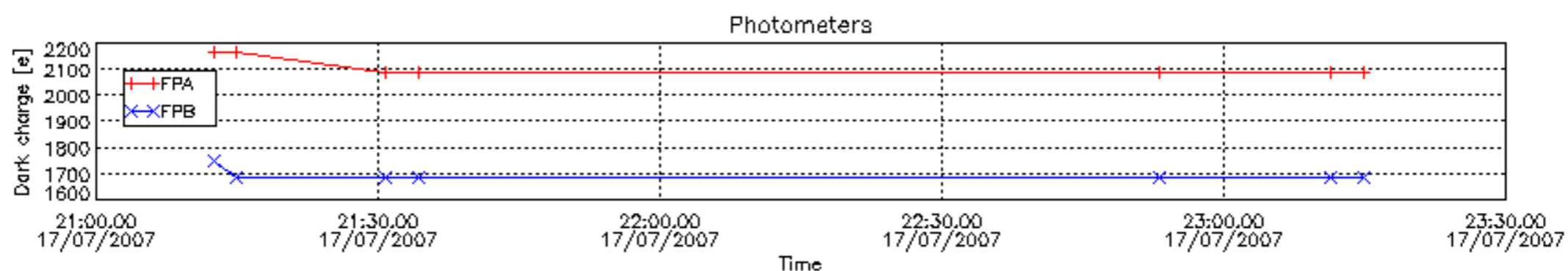
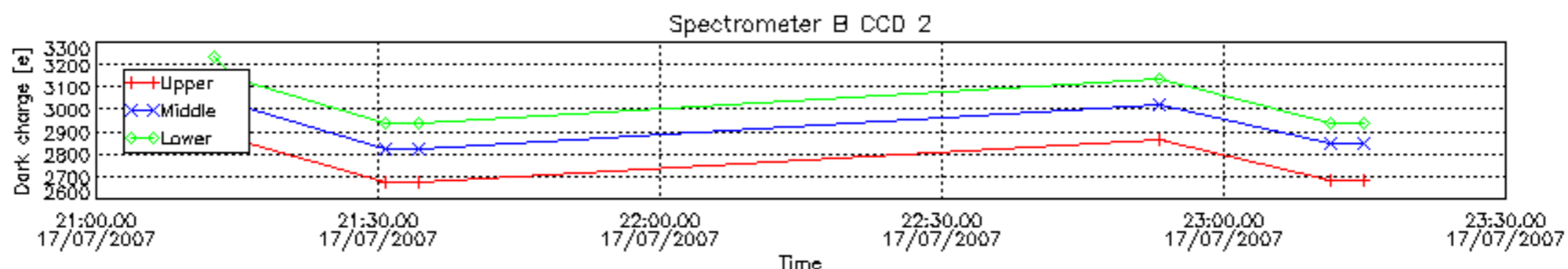
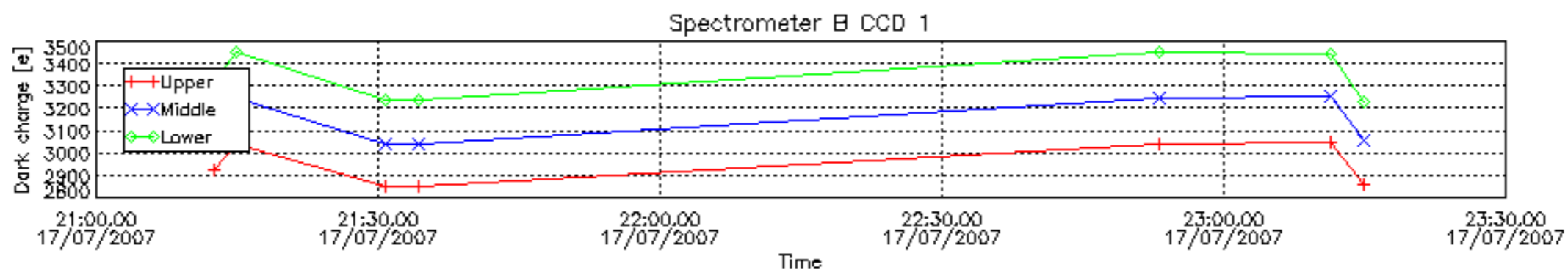
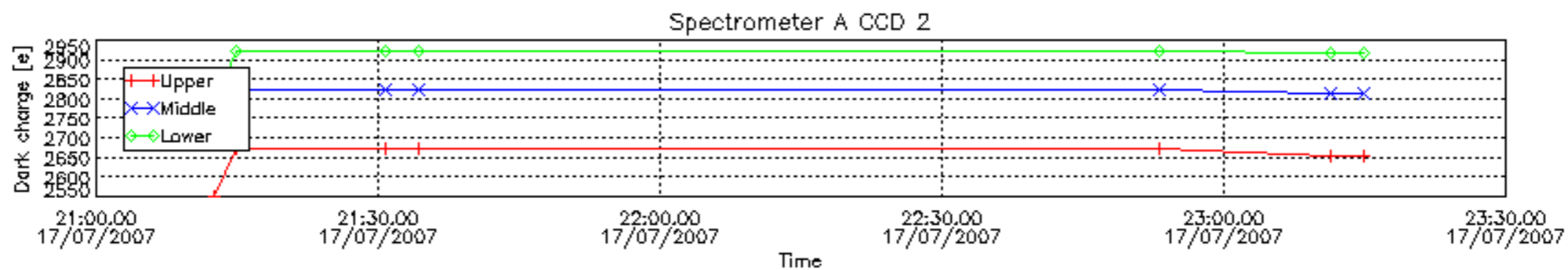
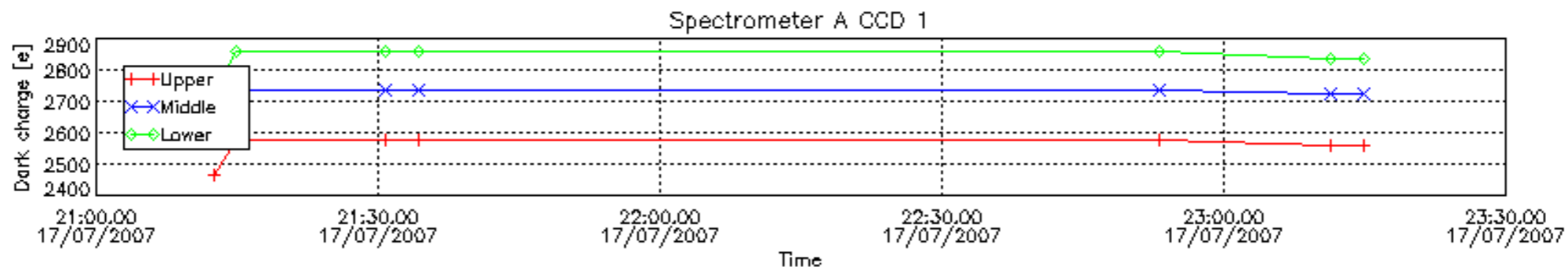
8. Auxiliary Data Files used for the production reported in section 2.4

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.

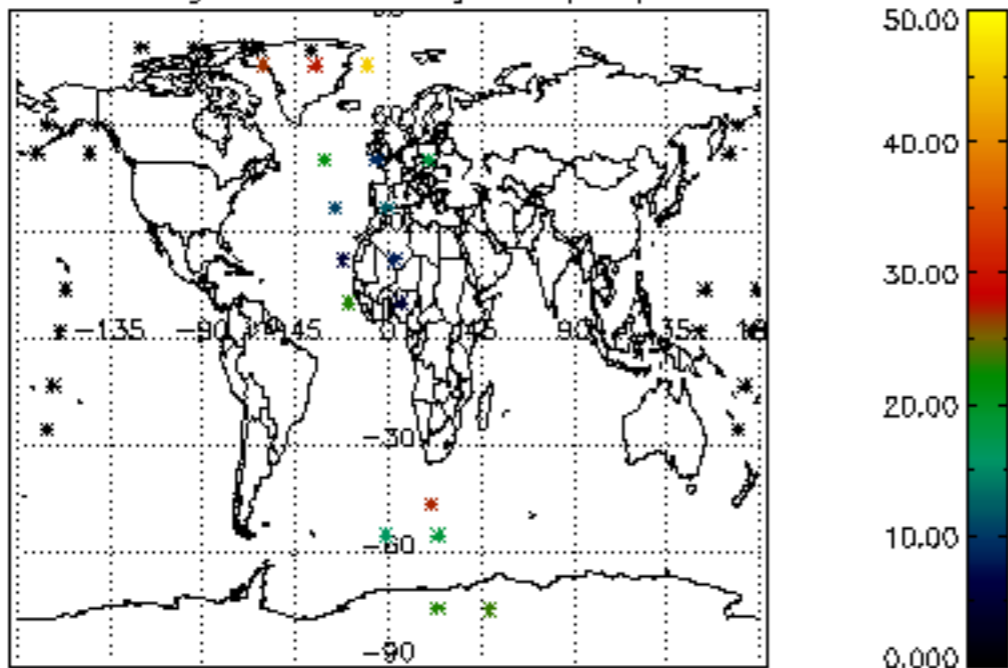
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	17-JUL-2007 20:01:30
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070713_071616_20070710_000000_20100101_000000	1	17-JUL-2007 20:01:30
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	17-JUL-2007 20:01:30
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-JUL-2007 20:01:30
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	17-JUL-2007 20:01:30
ECMWF_FILE	AUX_ECF_AXNECM20070717_062111_20070717_150000_20070718_030000	1	17-JUL-2007 20:01:30
ECMWF_FILE	AUX_ECF_AXNECM20070717_062111_20070717_210000_20070718_090000	13	17-JUL-2007 21:14:53
OPTIONAL_ECMWF_FILE	MISSING	1	17-JUL-2007 20:01:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070717_195856_000041442060_00014_28124_3795.N1	1	17-JUL-2007 20:01:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070717_211319_000057382060_00014_28124_3796.N1	29	17-JUL-2007 22:55:29



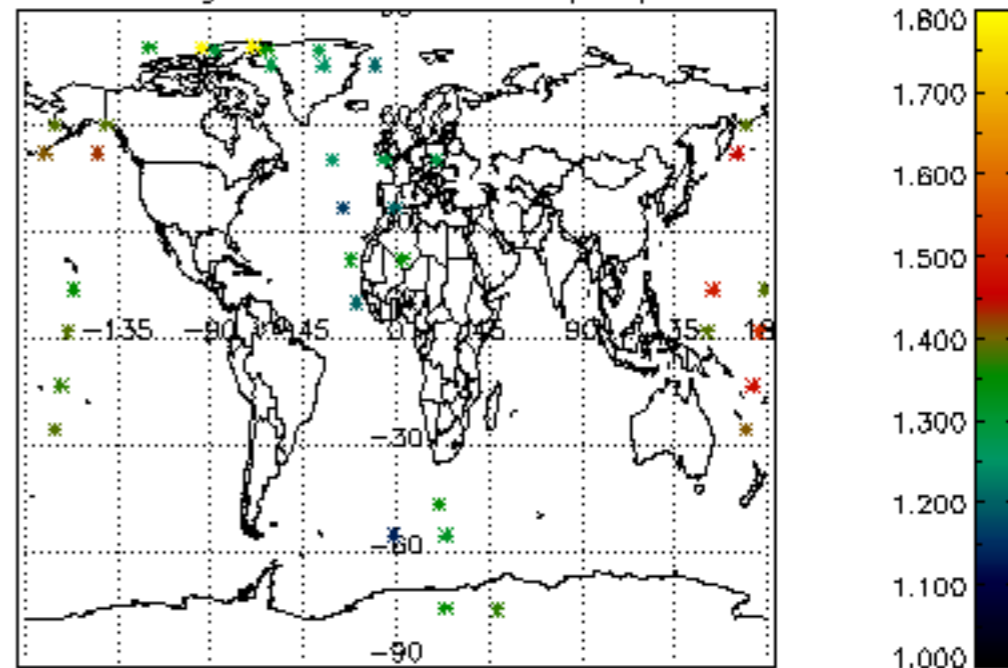




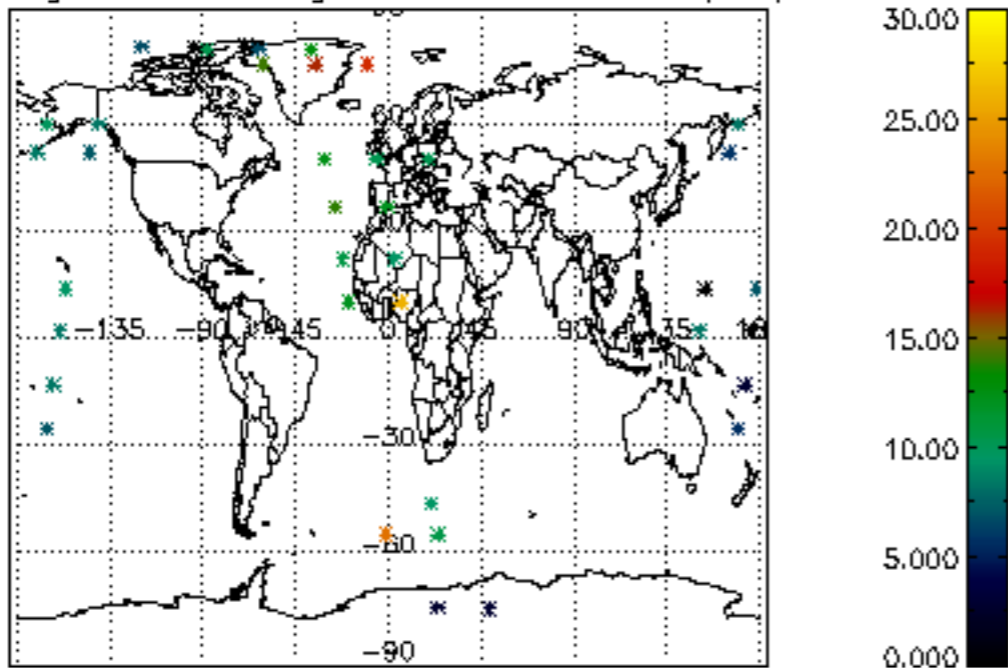
Percentage of cosmic ray hits per profile



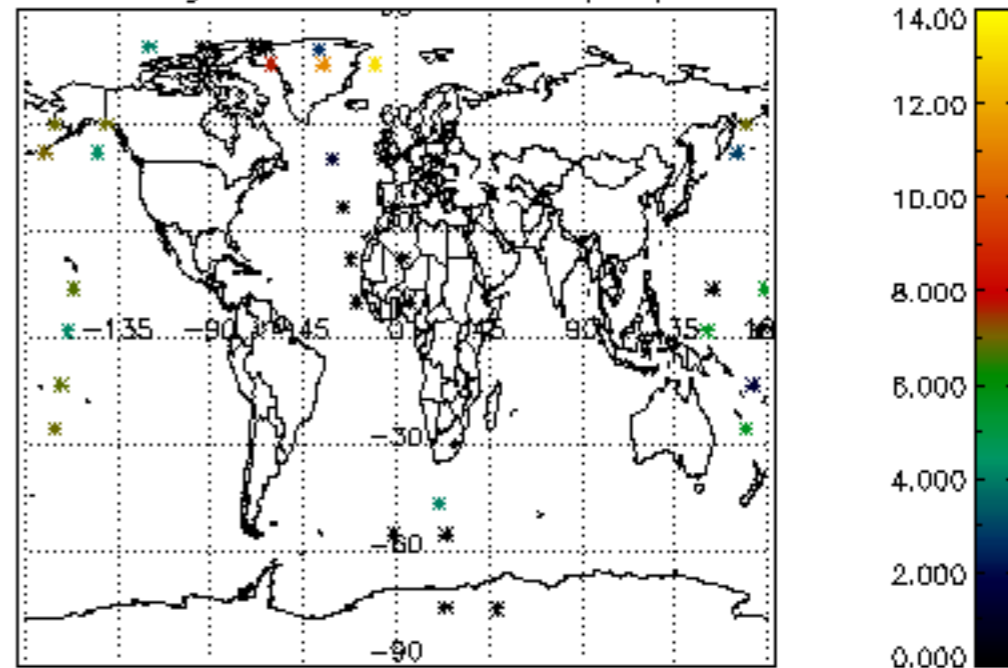
Percentage of datation errors per profile



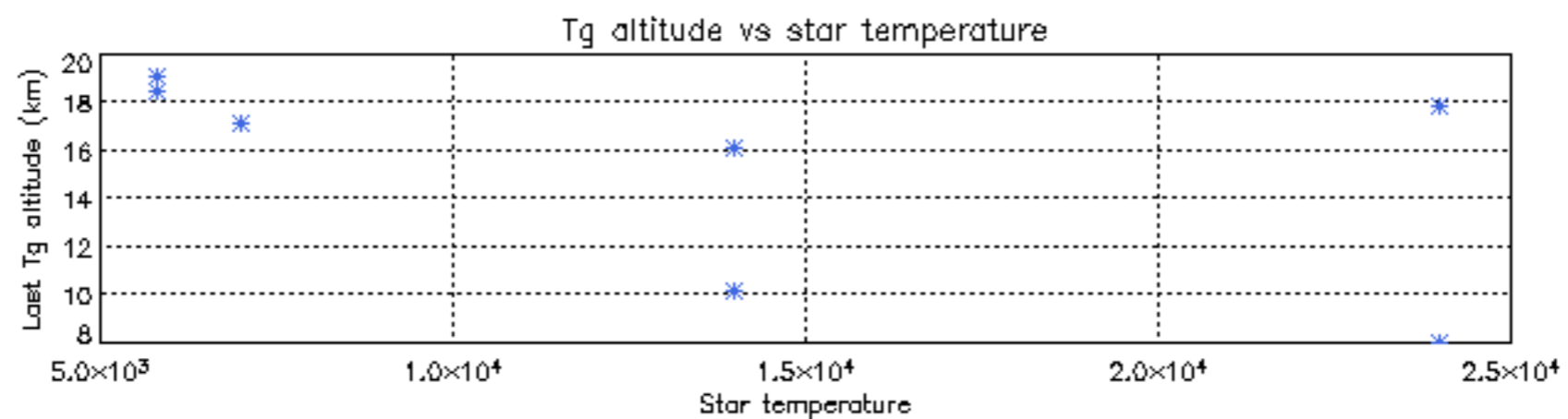
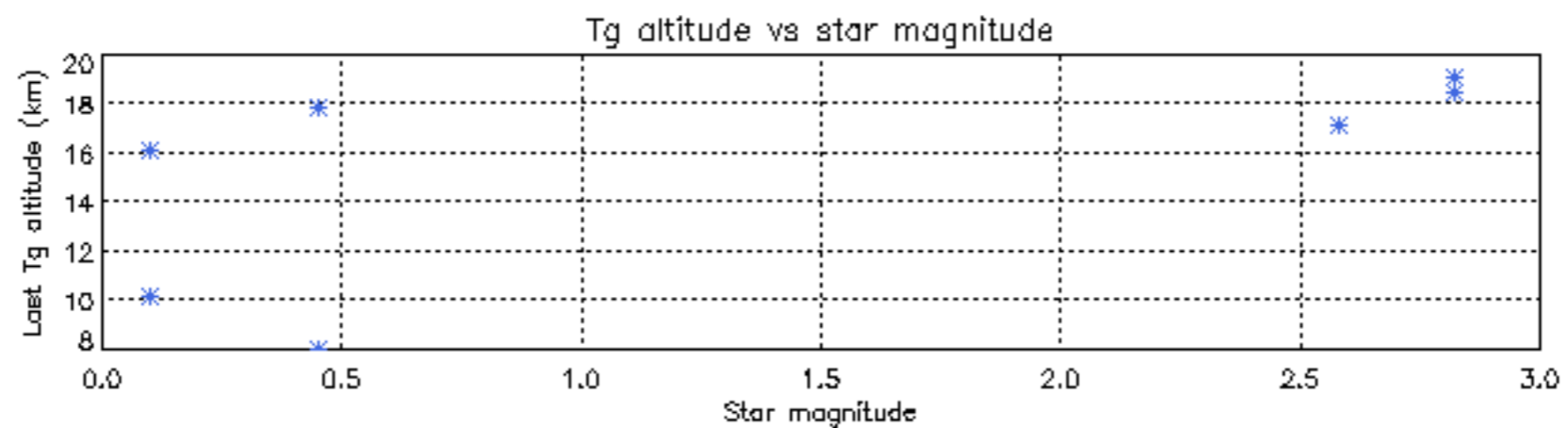
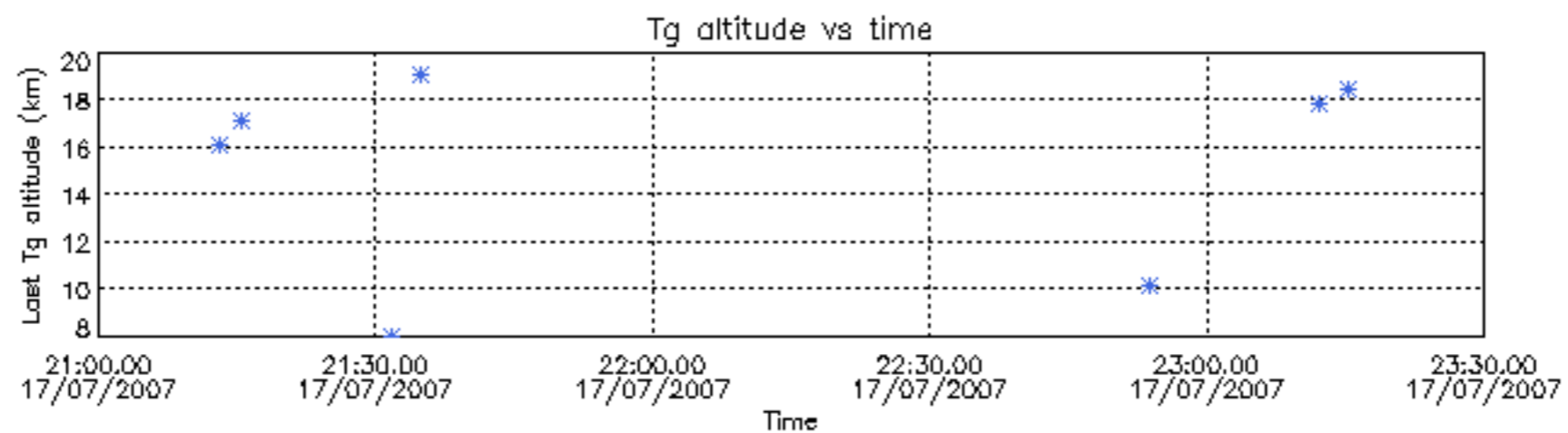
Percentage of star falling outside central band per profile



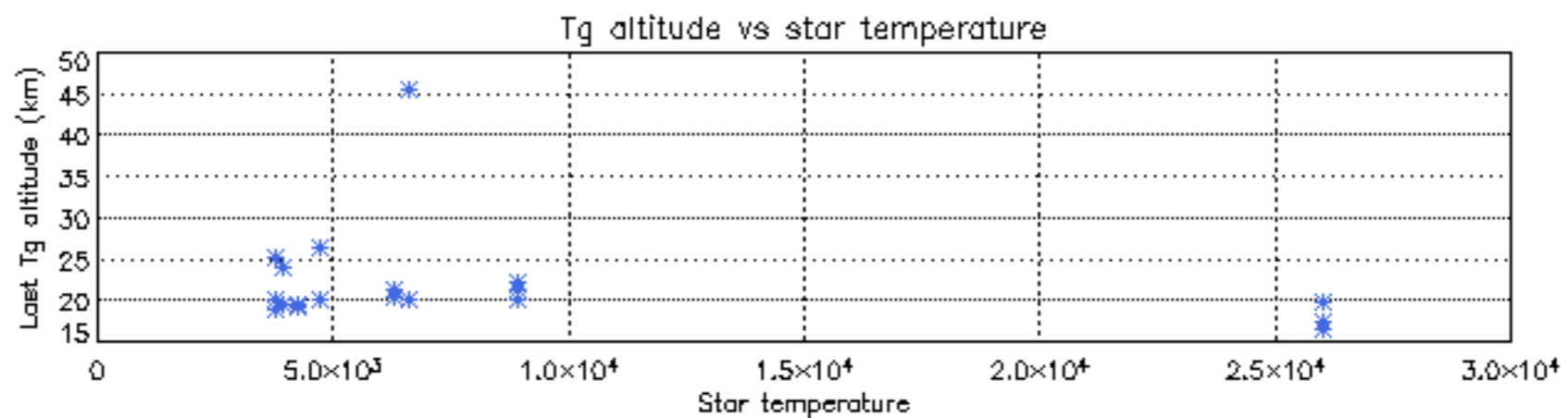
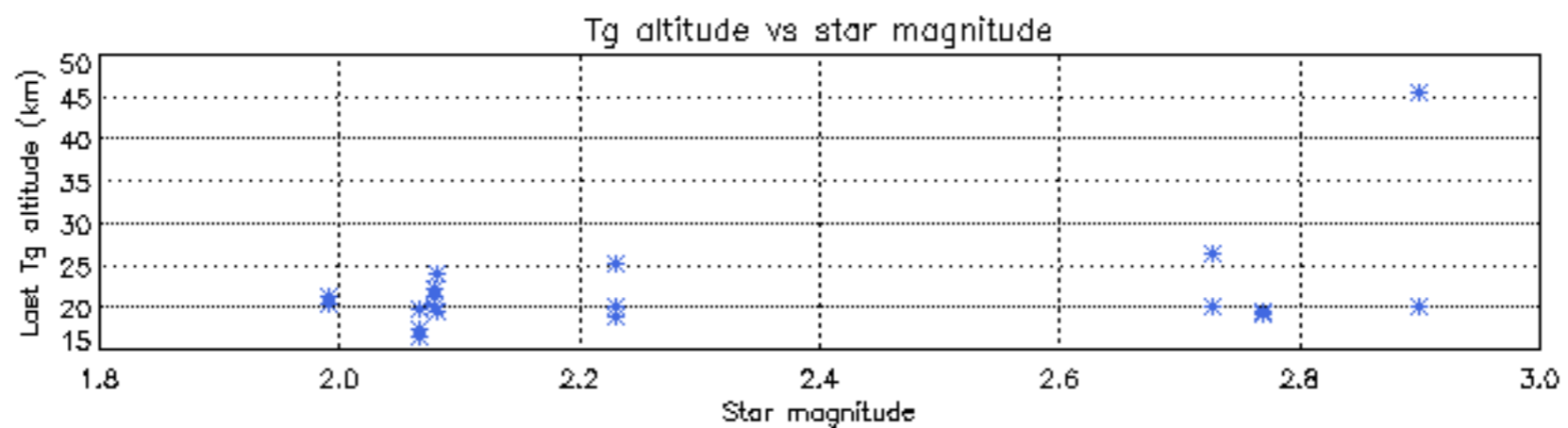
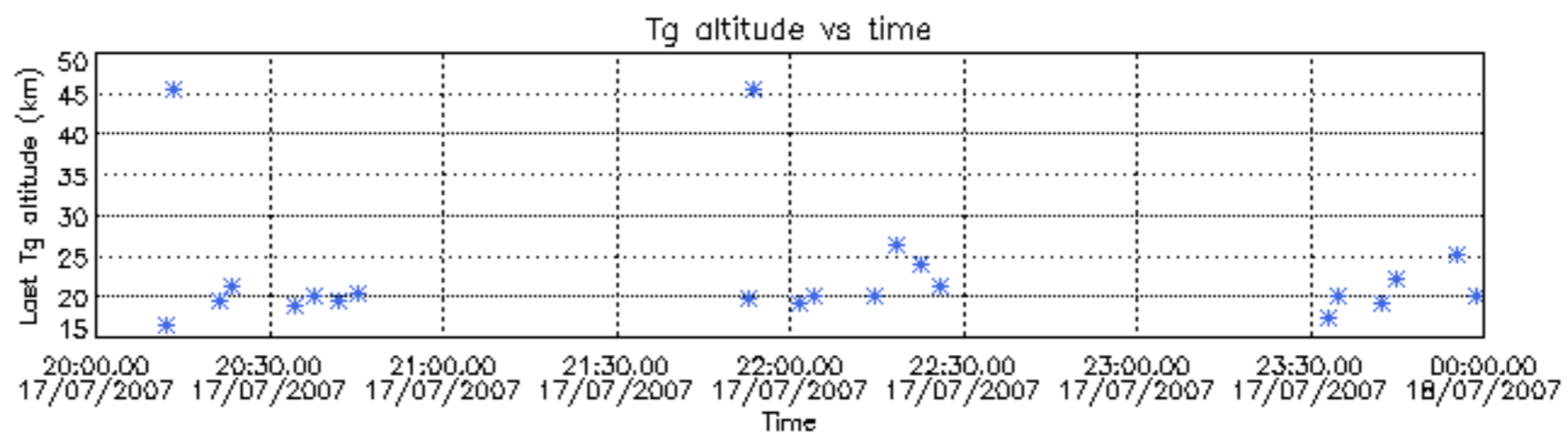
Percentage of saturation errors per profile



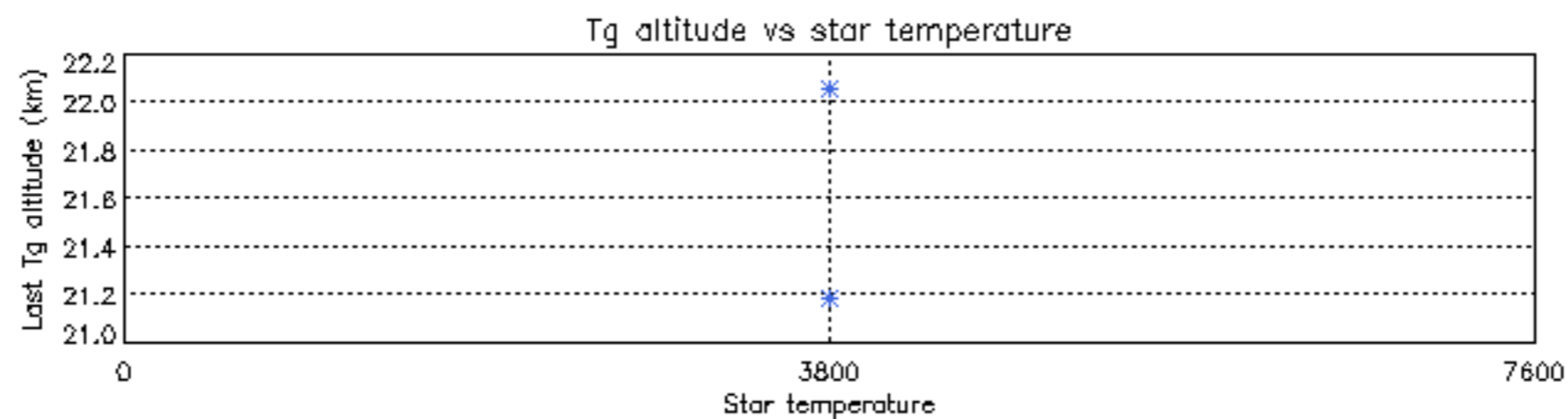
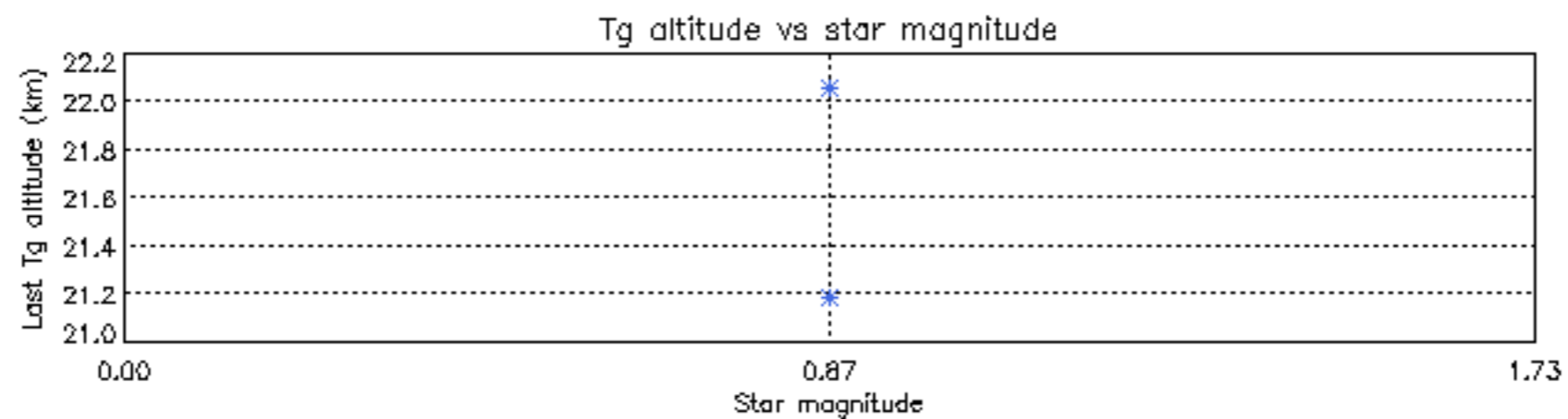
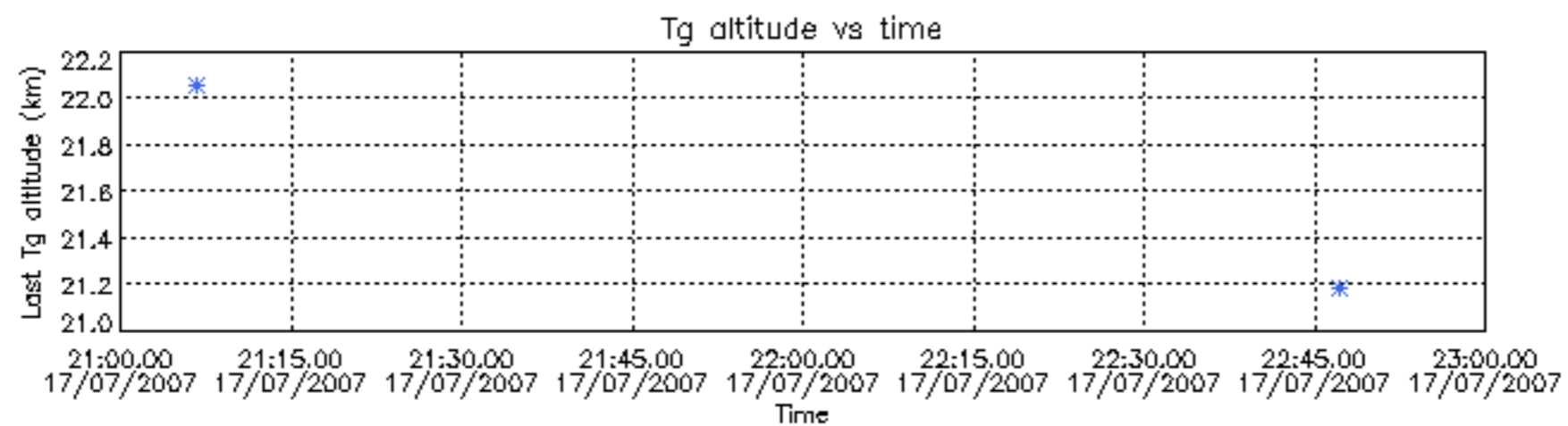
Tangent altitude at which the star is lost

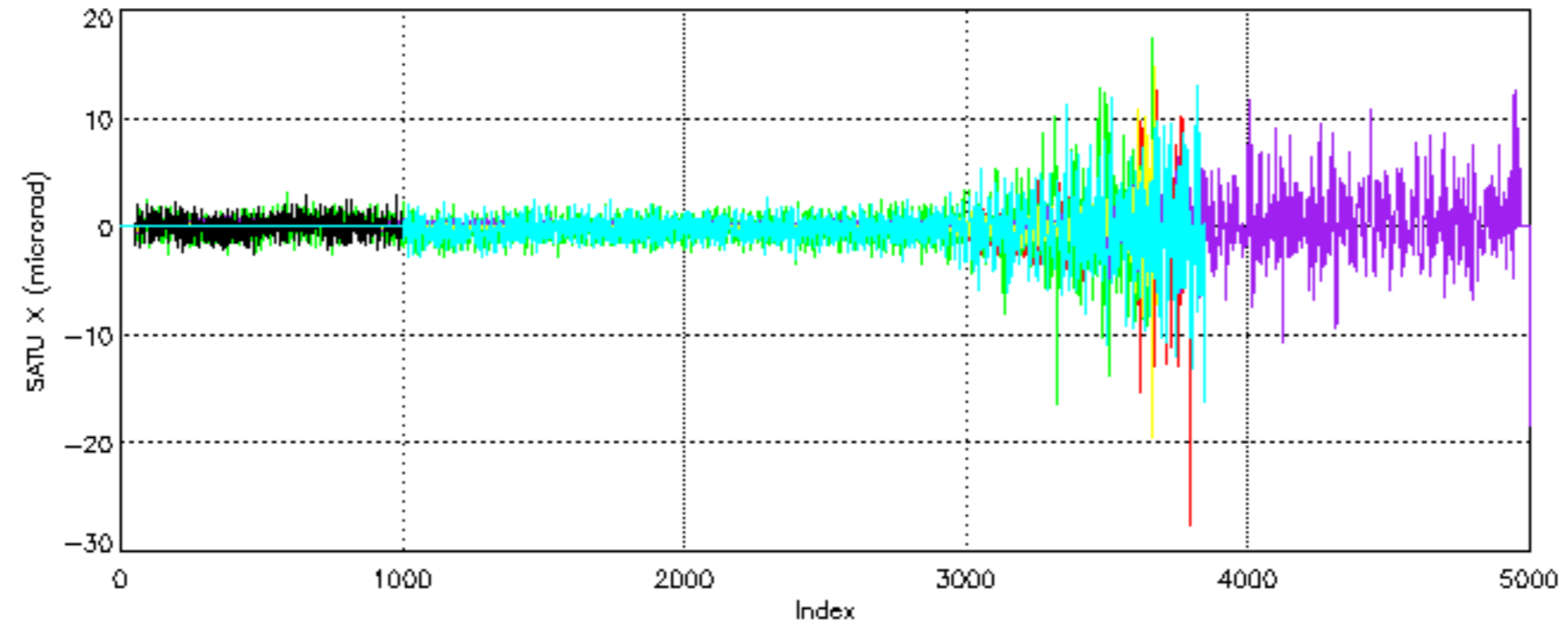


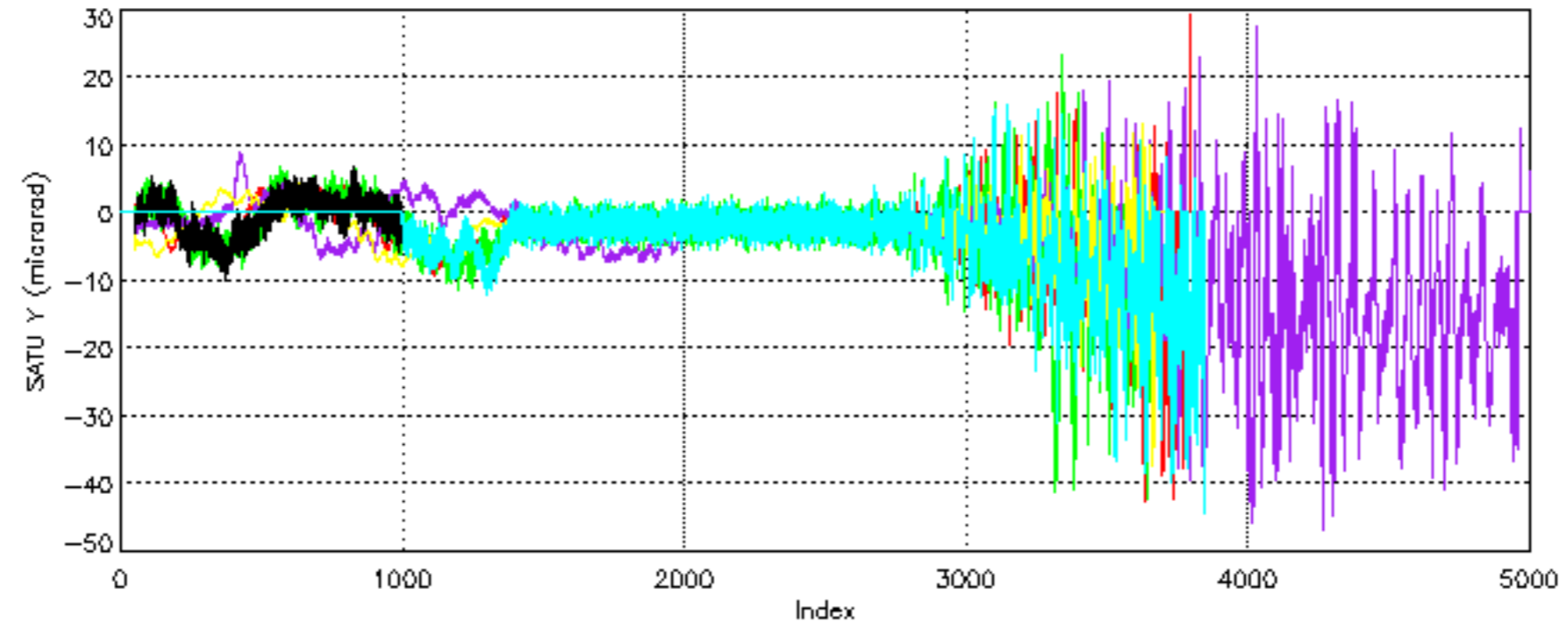
Tangent altitude at which the star is lost

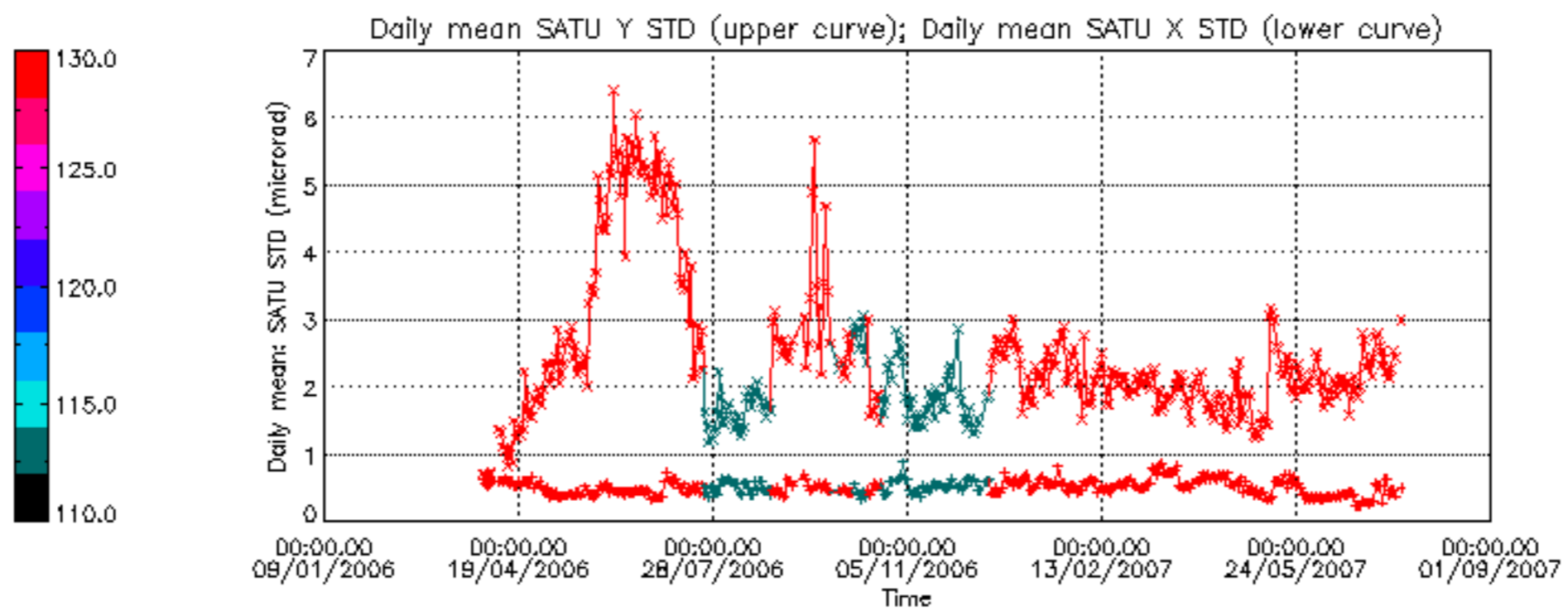


Tangent altitude at which the star is lost









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 2; -323.4; 01-JUL-2007 01:18:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27883
 3; 33.5; 01-JUL-2007 01:24:15; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;27884
 4; 480.3; 01-JUL-2007 01:31:42; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;27884
 5; 742.9; 01-JUL-2007 01:36:04; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27884
 6; 1062.1; 01-JUL-2007 01:41:23; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;27884
 7; 1170.1; 01-JUL-2007 01:43:11; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;27884
 8; 1269.9; 01-JUL-2007 01:44:51; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;27884
 9; 1354.5; 01-JUL-2007 01:46:16; Dark ; 44.5; 116; 19Del Sgr ; 2.70; 4100;occ; 89; 0;27884
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 12; 2122.3; 01-JUL-2007 01:59:04; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;27884
 13; 2283.2; 01-JUL-2007 02:01:44; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;27884
 14; 2447.8; 01-JUL-2007 02:04:29; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;27884
 15; 2810.0; 01-JUL-2007 02:10:31; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27884
 16; 2952.4; 01-JUL-2007 02:12:54; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;27884
 17; 3190.9; 01-JUL-2007 02:16:52; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;27884
 18; 3445.4; 01-JUL-2007 02:21:07; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27884

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 6; 481.1; 01-JUL-2007 03:12:18; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;27885
 7; 743.5; 01-JUL-2007 03:16:41; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27885
 8; 1062.3; 01-JUL-2007 03:21:59; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;27885
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 14; 2122.4; 01-JUL-2007 03:39:40; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;27885
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 16; 2448.0; 01-JUL-2007 03:45:05; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;27885
 17; 2810.0; 01-JUL-2007 03:51:07; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;27885
 18; 2952.5; 01-JUL-2007 03:53:30; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;27885
 19; 3191.1; 01-JUL-2007 03:57:28; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;27885
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 6; 481.7; 01-JUL-2007 04:52:55; Dark ; 44.0; 148; Alp Tuc ; 2.88; 4100;occ; 88; 0;27886
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 9; 1170.6; 01-JUL-2007 05:04:24; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27886
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 13; 1982.2; 01-JUL-2007 05:17:55; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27886
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 16; 2448.1; 01-JUL-2007 05:25:41; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;27886
 17; 2809.8; 01-JUL-2007 05:31:43; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;27886
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 19; 3191.3; 01-JUL-2007 05:38:04; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27886
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 5; 35.1; 01-JUL-2007 06:26:04; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;27887
 6; 482.3; 01-JUL-2007 06:33:31; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;27887


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7; 744.5; 01-JUL-2007 06:37:54; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;27887
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9; 1170.8; 01-JUL-2007 06:45:00; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27887
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11; 1355.3; 01-JUL-2007 06:48:04; Dark ; 48.5; 116; 19Del Sgr ; 2.70; 4100;occ; 97; 0;27887
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13; 1982.3; 01-JUL-2007 06:58:31; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27887
14; 2122.3; 01-JUL-2007 07:00:51; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;27887
15; 2283.7; 01-JUL-2007 07:03:33; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;27887
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17; 2809.7; 01-JUL-2007 07:12:19; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27887
18; 2952.5; 01-JUL-2007 07:14:42; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;27887
19; 3191.4; 01-JUL-2007 07:18:40; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27887
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4; 1357.1; 01-JUL-2007 20:12:54; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110; 0;27895
5; 1643.8; 01-JUL-2007 20:17:40; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;27895
6; 1982.2; 01-JUL-2007 20:23:19; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27895
7; 2121.8; 01-JUL-2007 20:25:38; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;27895
8; 2284.8; 01-JUL-2007 20:28:21; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;27895
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13;	4305.2;	06-JUL-2007	20:04:33;	Bright;	;	34.5;	149;	45Eps Per	;	2.89;	30000;occ;	69;	0;	27966
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8;	532.0;	07-JUL-2007	03:24:39;	Dark	;	43.5;	148;	Alp Tuc	;	2.88;	4100;occ;	87;	0;	27971
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 6; 373.9; 18-JUL-2007 04:16:37; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;28129
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13; 902.4; 30-JUL-2007 03:07:50; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;28300
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13; 902.7; 30-JUL-2007 04:48:26; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;28301
14; 1407.8; 30-JUL-2007 04:56:51; Dark ; 41.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 82; 0;28301
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