

GOMOS Daily Report 09-JUN-2007

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	14JUN2007 11:27:07
Data source version	GOMOS/5.00
Start time of products	09-JUN-2007 (09JUN2007 00:00:00)
Stop time of products	10-JUN-2007 (10JUN2007 00:00:00)
Store outputs in DB	No
Nb of level 1b prods	50
Nb of prods with errors	0

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

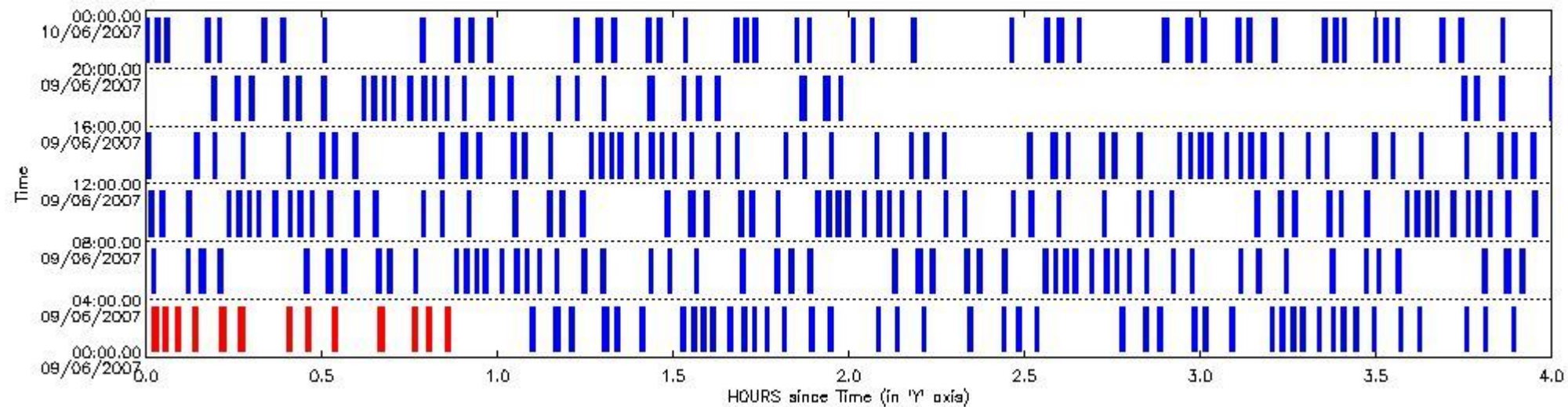
2.1 Level 0 products arrived in PCF (see template [here](#))

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).



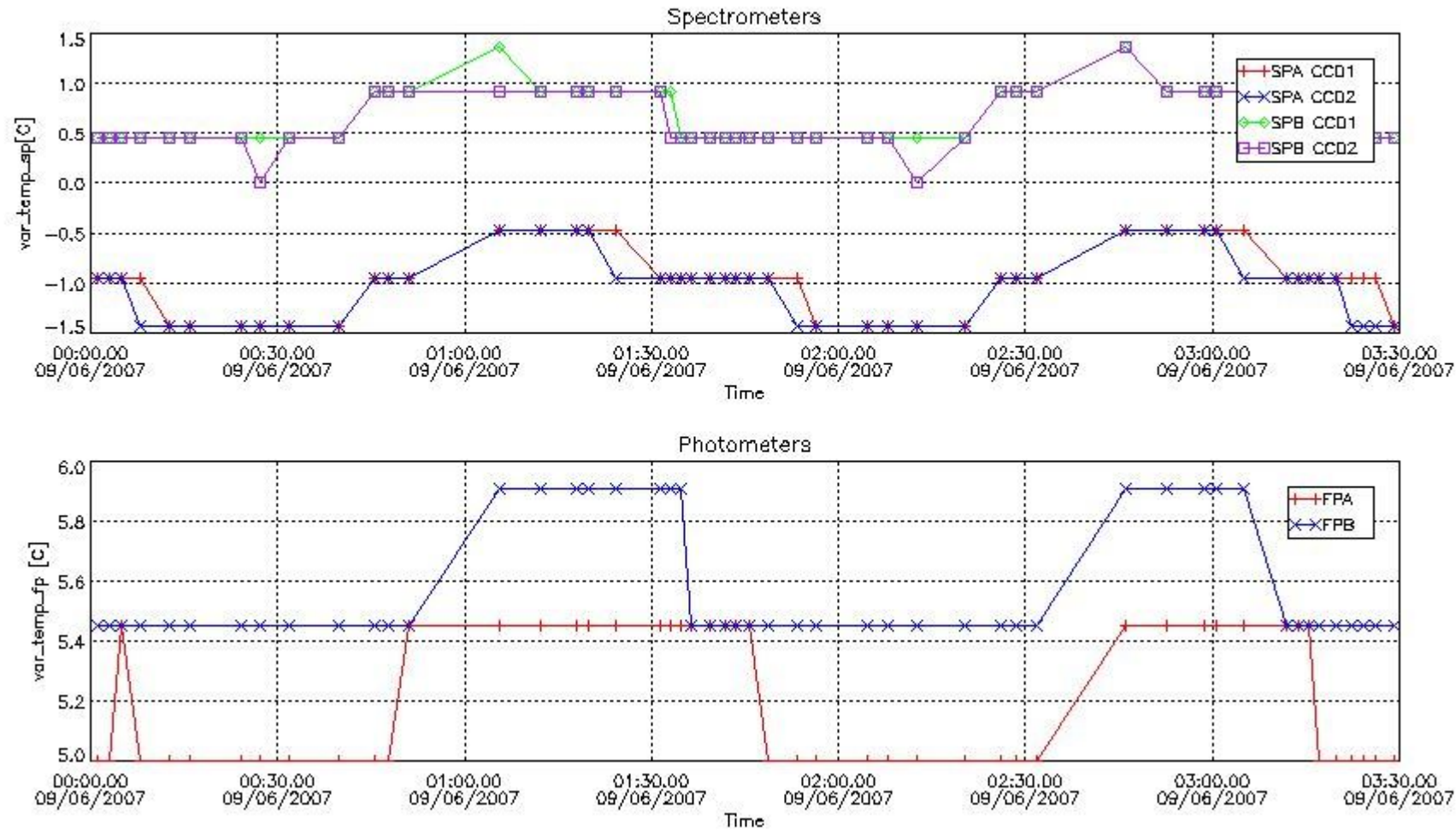
2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
09-JUN-2007 00:01:01	35EtaOph	86	27568
09-JUN-2007 00:02:48	13ZetOph	98	27568
09-JUN-2007 00:04:55	1DelOph	120	27568
09-JUN-2007 00:07:56	24AlpSer	102	27568
09-JUN-2007 00:12:31	27BetHer	127	27568
09-JUN-2007 00:15:44	40ZetHer	133	27568
09-JUN-2007 00:23:57	14EtaDra	119	27568
09-JUN-2007 00:27:05	7BetUMi	60	27568
09-JUN-2007 00:31:46	1AlpUMi	49	27568
09-JUN-2007 00:39:35	27GamCas	76	27568
09-JUN-2007 00:45:24	57Gam1And	73	27568
09-JUN-2007 00:47:43	43BetAnd	53	27568
09-JUN-2007 00:50:58	13AlpAri	50	27568

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_1PNPDE20070609_000109_000000402058_00460_27568_9505.N1	09-JUN-2007 00:01:09	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	27568	No
2	GOM_TRA_1PNPDE20070609_000256_000000392058_00460_27568_9506.N1	09-JUN-2007 00:02:56	Bright	39.000	98	13Zet Oph	2.5710	30000.	78	27568	No
3	GOM_TRA_1PNPDE20070609_000503_000000372058_00460_27568_9507.N1	09-JUN-2007 00:05:03	Bright	37.000	120	1Del Oph	2.7340	3200.0	74	27568	No
4	GOM_TRA_1PNPDE20070609_000804_000000362058_00460_27568_9508.N1	09-JUN-2007 00:08:04	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	27568	No
5	GOM_TRA_1PNPDE20070609_001239_000000402058_00460_27568_9509.N1	09-JUN-2007 00:12:39	Bright	39.500	127	27Bet Her	2.7810	4700.0	79	27568	No
6	GOM_TRA_1PNPDE20070609_001552_000000392058_00460_27568_9510.N1	09-JUN-2007 00:15:52	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	27568	No
7	GOM_TRA_1PNPDE20070609_002406_000000342058_00460_27568_9511.N1	09-JUN-2007 00:24:06	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	27568	No
8	GOM_TRA_1PNPDE20070609_002713_000000372058_00460_27568_9512.N1	09-JUN-2007 00:27:13	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	27568	No
9	GOM_TRA_1PNPDE20070609_003154_000000322058_00460_27568_9513.N1	09-JUN-2007 00:31:54	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	27568	No
10	GOM_TRA_1PNPDE20070609_003943_000000572058_00460_27568_9514.N1	09-JUN-2007 00:39:43	Bright	57.000	76	27Gam Cas	2.3000	30000.	114	27568	No
11	GOM_TRA_1PNPDE20070609_004532_000000372058_00460_27568_9515.N1	09-JUN-2007 00:45:32	Bright	37.000	73	57Gam1And	2.2600	13100.	74	27568	No
12	GOM_TRA_1PNPDE20070609_004751_000000502058_00460_27568_9516.N1	09-JUN-2007 00:47:51	Bright	50.000	53	43Bet And	2.0480	3300.0	100	27568	No
13	GOM_TRA_1PNPDE20070609_005106_000000442058_00460_27568_9517.N1	09-JUN-2007 00:51:06	Twilight	44.000	50	13Alp Ari	2.0070	4250.0	88	27568	No
14	GOM_TRA_1PNPDE20070609_010535_000000522058_00460_27568_9586.N1	09-JUN-2007 01:05:35	Dark	52.000	52	16Bet Cet	2.0370	4500.0	104	27568	No
15	GOM_TRA_1PNPDE20070609_011207_000000482058_00460_27568_9587.N1	09-JUN-2007 01:12:07	Dark	48.000	84	Alp Phe	2.3970	4500.0	96	27568	No
16	GOM_TRA_1PNPDE20070609_011757_000000612058_00461_27569_9588.N1	09-JUN-2007 01:17:57	Dark	61.000	63	Bet Gru	2.1500	2800.0	122	27569	No
17	GOM_TRA_1PNPDE20070609_011957_000000482058_00461_27569_9589.N1	09-JUN-2007 01:19:57	Dark	48.000	31	Alp Gru	1.7340	15200.	96	27569	No
18	GOM_TRA_1PNPDE20070609_012424_000000452058_00461_27569_9590.N1	09-JUN-2007 01:24:24	Straylight	44.500	45	Alp Pav	1.9400	26000.	89	27569	No
19	GOM_TRA_1PNPDE20070609_013120_000000392058_00461_27569_9591.N1	09-JUN-2007 01:31:20	Straylight	38.500	147	Alp Ara	2.8770	26000.	77	27569	No
20	GOM_TRA_1PNPDE20070609_013304_000000462058_00461_27569_9592.N1	09-JUN-2007 01:33:04	Straylight	45.500	40	The Sco	1.8590	7100.0	91	27569	No
21	GOM_TRA_1PNPDE20070609_013449_000000432058_00461_27569_9593.N1	09-JUN-2007 01:34:49	Tw_i_and_stray	43.000	25	35Lam Sco	1.6200	28000.	86	27569	No
22	GOM_TRA_1PNPDE20070609_013624_000000412058_00461_27569_9594.N1	09-JUN-2007 01:36:24	Tw_i_and_stray	40.500	75	26Eps Sco	2.2910	4250.0	81	27569	No
23	GOM_TRA_1PNPDE20070609_013916_000000492058_00461_27569_9595.N1	09-JUN-2007 01:39:16	Bright	48.500	156	20Sig Sco	2.9030	28000.	97	27569	No
24	GOM_TRA_1PNPDE20070609_014145_000000412058_00461_27569_9596.N1	09-JUN-2007 01:41:45	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	27569	No
25	GOM_TRA_1PNPDE20070609_014332_000000382058_00461_27569_9597.N1	09-JUN-2007 01:43:32	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	27569	No
26	GOM_TRA_1PNPDE20070609_014539_000000372058_00461_27569_9598.N1	09-JUN-2007 01:45:39	Bright	37.000	120	1Del Oph	2.7340	3200.0	74	27569	No
27	GOM_TRA_1PNPDE20070609_014840_000000362058_00461_27569_9599.N1	09-JUN-2007 01:48:40	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	27569	No
28	GOM_TRA_1PNPDE20070609_015315_000000392058_00461_27569_9600.N1	09-JUN-2007 01:53:15	Bright	39.000	127	27Bet Her	2.7810	4700.0	78	27569	No
29	GOM_TRA_1PNPDE20070609_015628_000000382058_00461_27569_9601.N1	09-JUN-2007 01:56:28	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	27569	No
30	GOM_TRA_1PNPDE20070609_020441_000000342058_00461_27569_9602.N1	09-JUN-2007 02:04:41	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	27569	No
31	GOM_TRA_1PNPDE20070609_020749_000000372058_00461_27569_9603.N1	09-JUN-2007 02:07:49	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	27569	No
32	GOM_TRA_1PNPDE20070609_021230_000000352058_00461_27569_9604.N1	09-JUN-2007 02:12:30	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	27569	No
33	GOM_TRA_1PNPDE20070609_022019_000000382058_00461_27569_9776.N1	09-JUN-2007 02:20:19	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	27569	No
34	GOM_TRA_1PNPDE20070609_022608_000000392058_00461_27569_9777.N1	09-JUN-2007 02:26:08	Bright	39.000	73	57Gam1And	2.2600	13100.	78	27569	No
35	GOM_TRA_1PNPDE20070609_022827_000000502058_00461_27569_9778.N1	09-JUN-2007 02:28:27	Bright	49.500	53	43Bet And	2.0480	3300.0	99	27569	No
36	GOM_TRA_1PNPDE20070609_023142_000000452058_00461_27569_9779.N1	09-JUN-2007 02:31:42	Twilight	44.500	50	13Alp Ari	2.0070	4250.0	89	27569	No
37	GOM_TRA_1PNPDE20070609_024612_000000502058_00461_27569_9780.N1	09-JUN-2007 02:46:12	Dark	49.500	52	16Bet Cet	2.0370	4500.0	99	27569	No
38	GOM_TRA_1PNPDE20070609_025244_000000422058_00461_27569_9781.N1	09-JUN-2007 02:52:44	Dark	42.000	84	Alp Phe	2.3970	4500.0	84	27569	No
39	GOM_TRA_1PNPDE20070609_025834_000000522058_00462_27570_9782.N1	09-JUN-2007 02:58:34	Dark	52.000	63	Bet Gru	2.1500	2800.0	104	27570	No
40	GOM_TRA_1PNPDE20070609_030034_000000492058_00462_27570_9783.N1	09-JUN-2007 03:00:34	Dark	48.500	31	Alp Gru	1.7340	15200.	97	27570	No
41	GOM_TRA_1PNPDE20070609_030501_000000432058_00462_27570_9784.N1	09-JUN-2007 03:05:01	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	27570	No
42	GOM_TRA_1PNPDE20070609_031156_000000402058_00462_27570_9785.N1	09-JUN-2007 03:11:56	Straylight	39.500	147	Alp Ara	2.8770	26000.	79	27570	No
43	GOM_TRA_1PNPDE20070609_031340_000000422058_00462_27570_9786.N1	09-JUN-2007 03:13:40	Straylight	42.000	40	The Sco	1.8590	7100.0	84	27570	No
44	GOM_TRA_1PNPDE20070609_031525_000000432058_00462_27570_9787.N1	09-JUN-2007 03:15:25	Tw_i_and_stray	42.500	25	35Lam Sco	1.6200	28000.	85	27570	No
45	GOM_TRA_1PNPDE20070609_031700_000000452058_00462_27570_9788.N1	09-JUN-2007 03:17:00	Tw_i_and_stray	44.500	75	26Eps Sco	2.2910	4250.0	89	27570	No
46	GOM_TRA_1PNPDE20070609_031952_000000362058_00462_27570_9789.N1	09-JUN-2007 03:19:52	Bright	36.000	156	20Sig Sco	2.9030	28000.	72	27570	No
47	GOM_TRA_1PNPDE20070609_032221_000000422058_00462_27570_9790.N1	09-JUN-2007 03:22:21	Bright	41.500	86	35Eta Oph	2.4300	10200.	83	27570	No
48	GOM_TRA_1PNPDE20070609_032408_000000382058_00462_27570_9791.N1	09-JUN-2007 03:24:08	Bright	38.000	98	13Zet Oph	2.5710	30000.	76	27570	No
49	GOM_TRA_1PNPDE20070609_032615_000000372058_00462_27570_9792.N1	09-JUN-2007 03:26:15	Bright	37.000	120	1Del Oph	2.7340	3200.0	74	27570	No
50	GOM_TRA_1PNPDE20070609_032916_000000352058_00462_27570_9793.N1	09-JUN-2007 03:29:16	Bright	35.000	102	24Alp Ser	2.6000	4250.0	70	27570	No

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



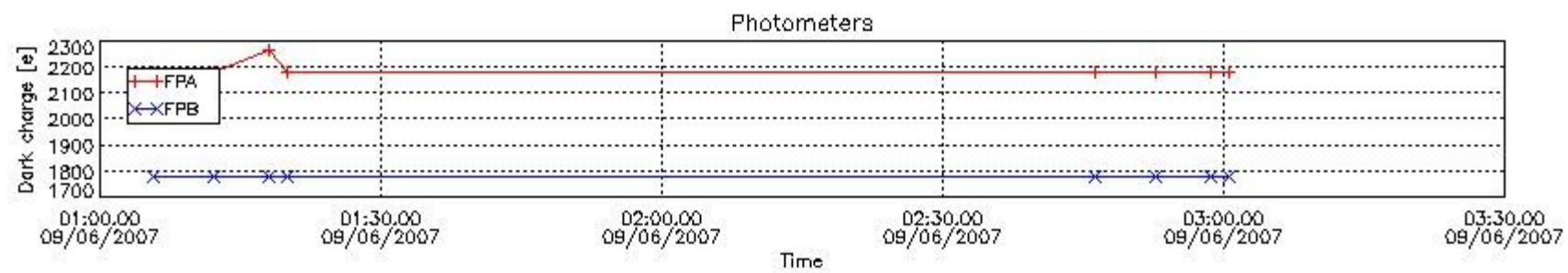
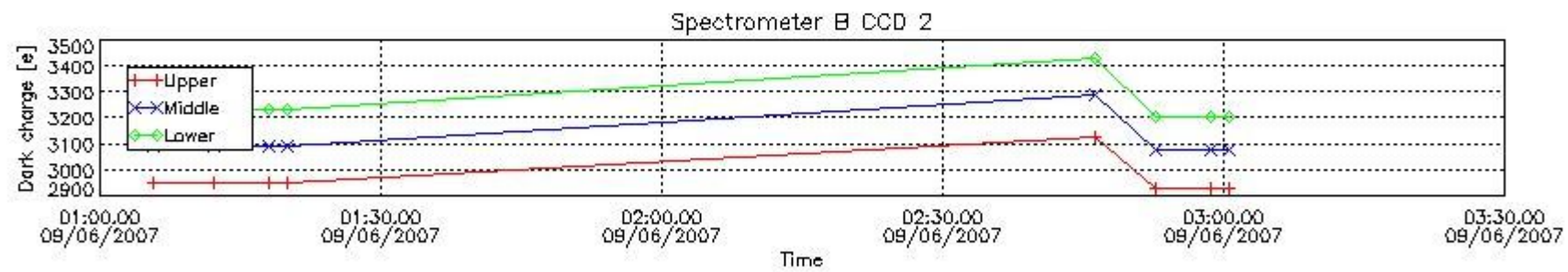
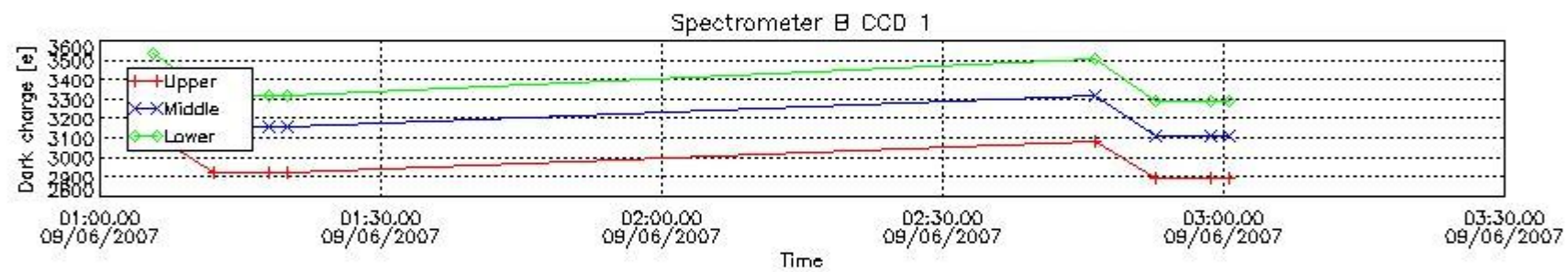
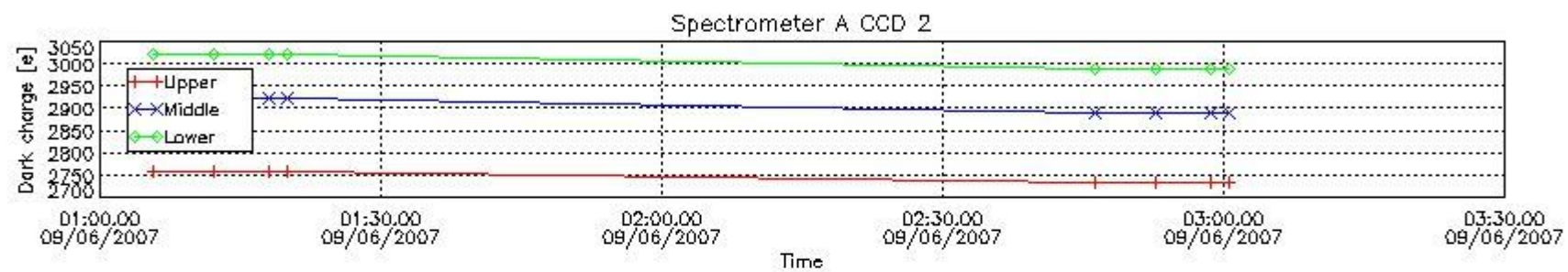
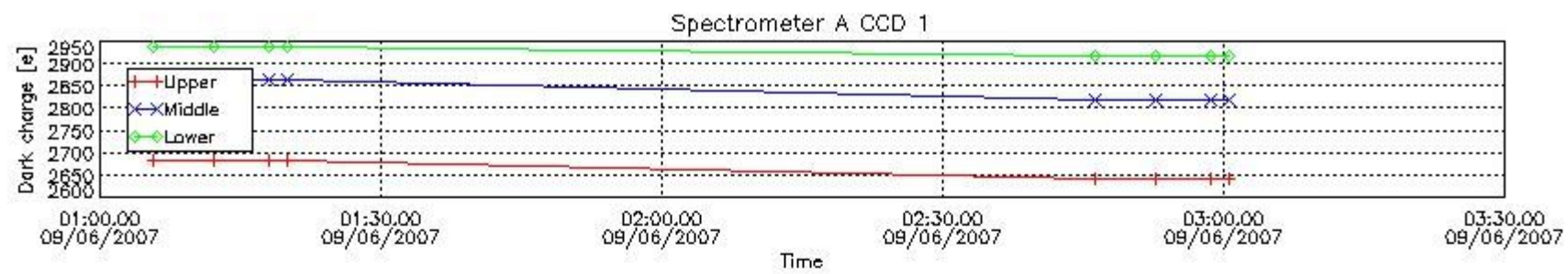
4. Overview of dark signal processing per product

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



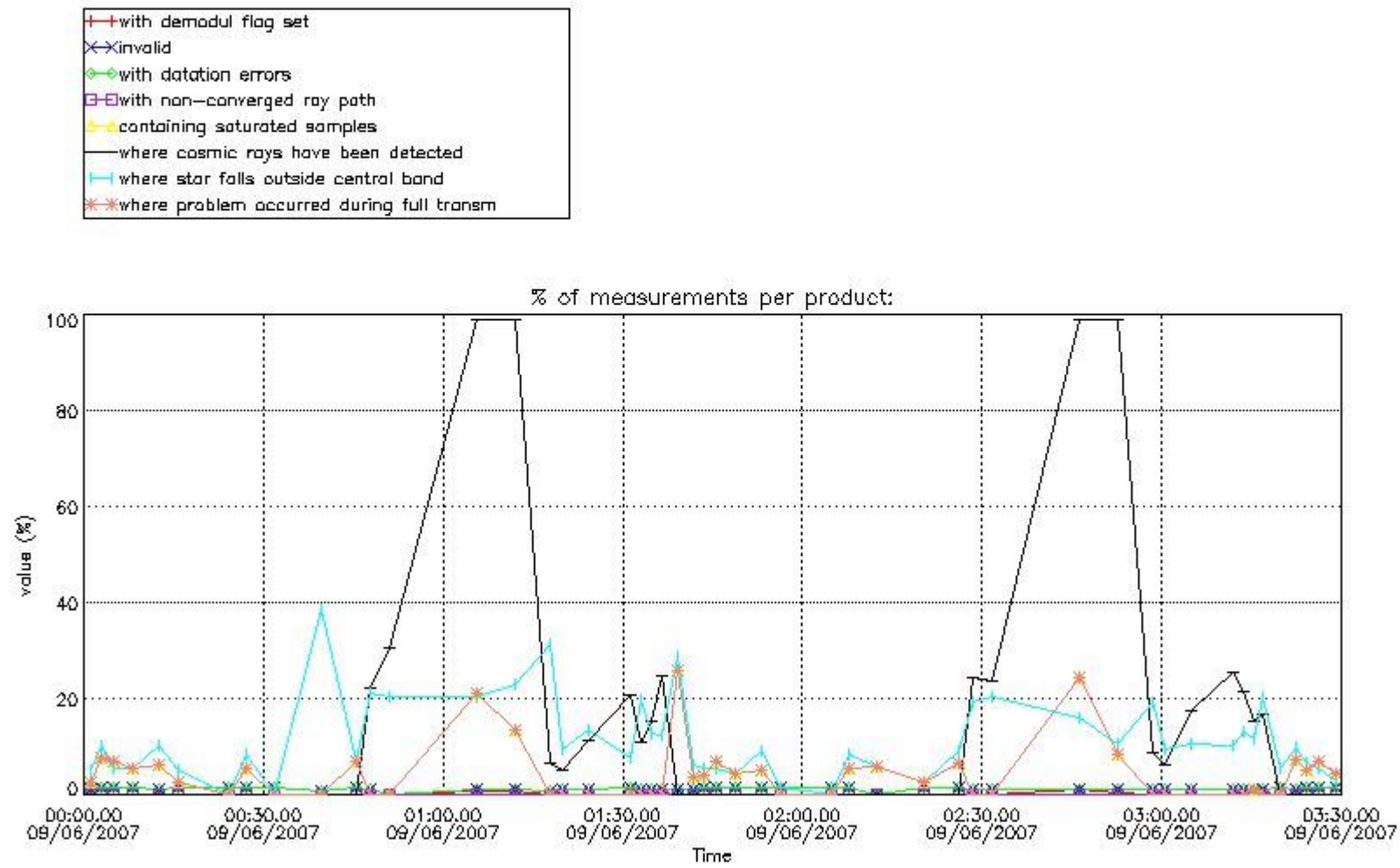
5. Demodulation flag and quality information monitoring

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.

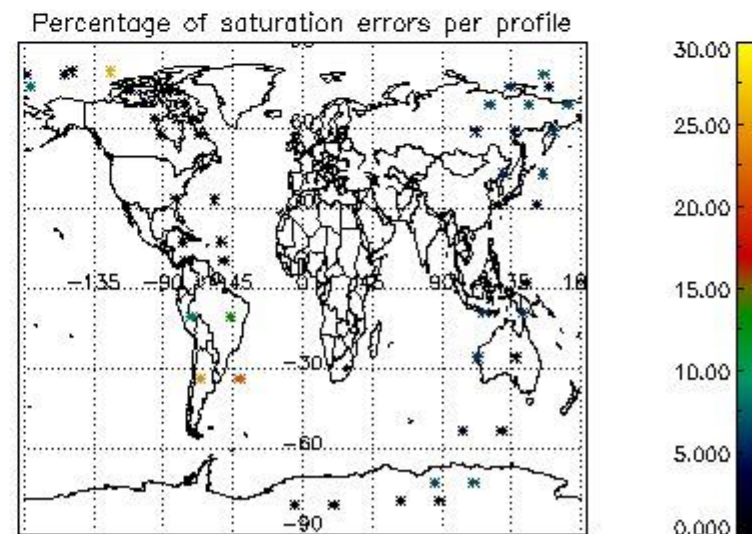
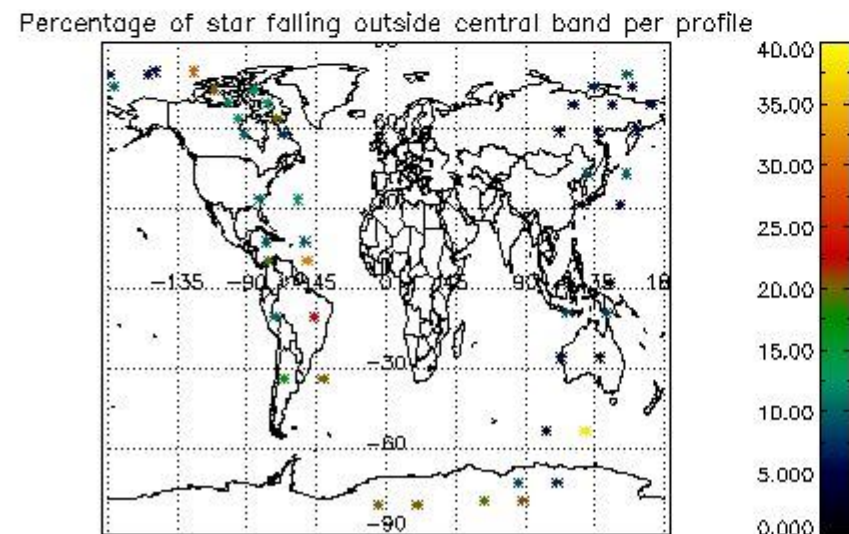
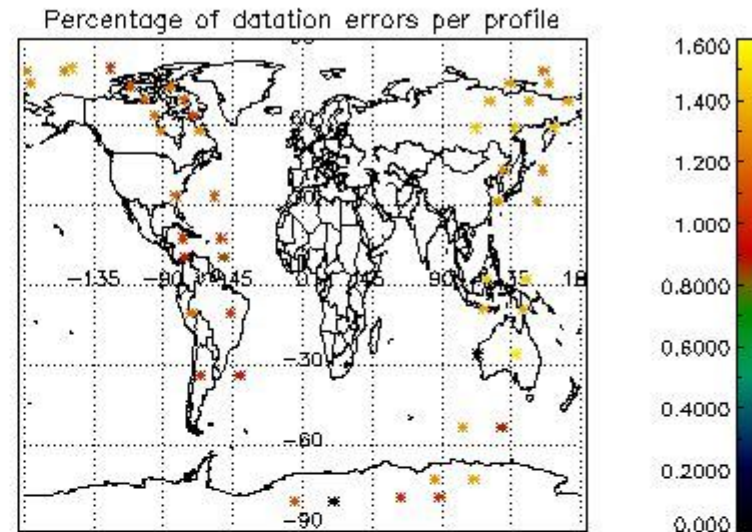
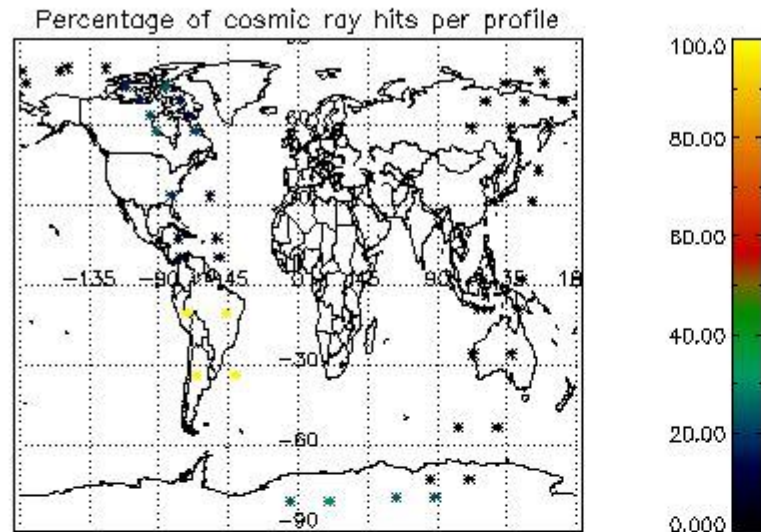
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.0000 %
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)



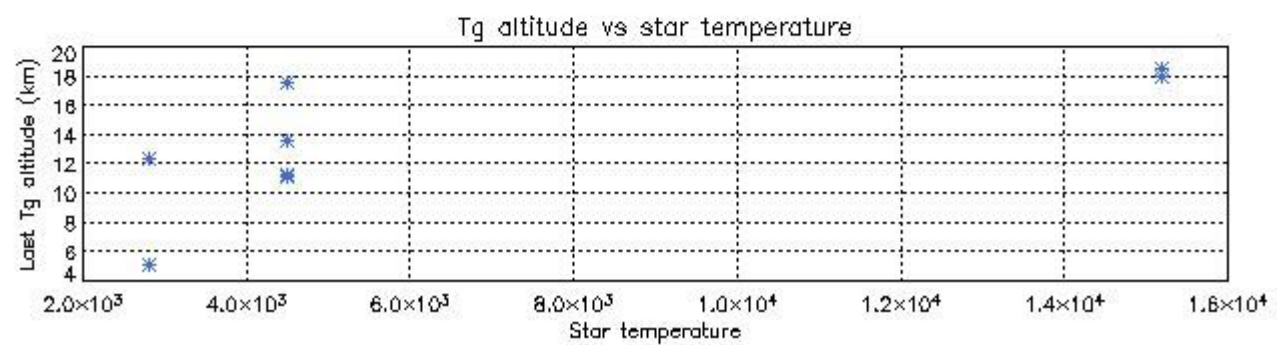
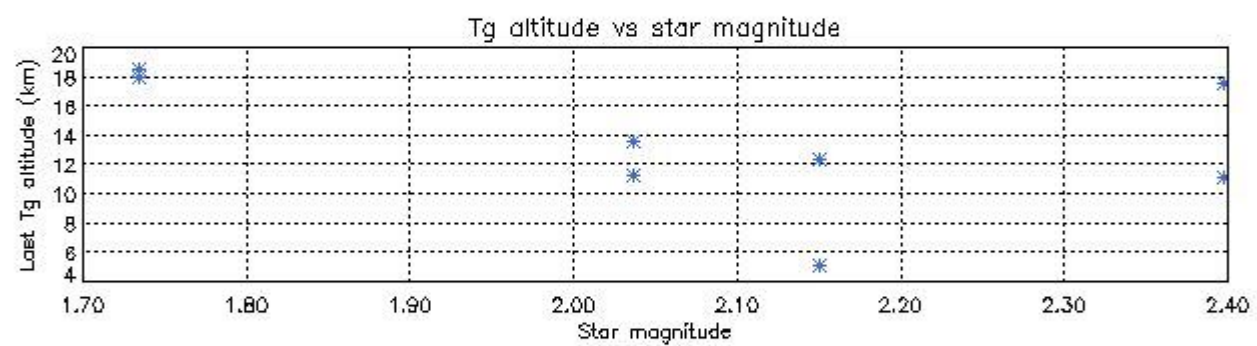
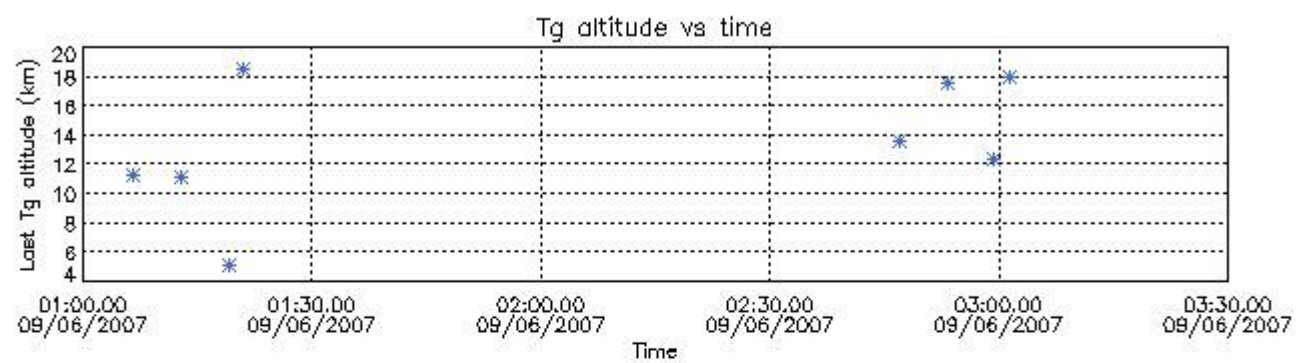
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.422	20.108	11.530
St. deviation:	4.5245	5.5256	0.67630
Maximum:	18.469	29.770	12.008
Minimum:	5.1267	3.7654	11.051
Number of data:	8.0000	30.000	2.0000

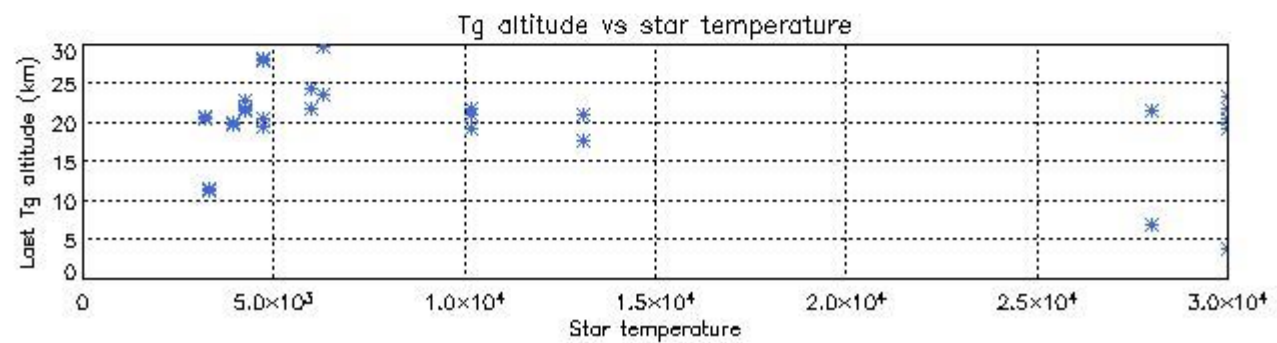
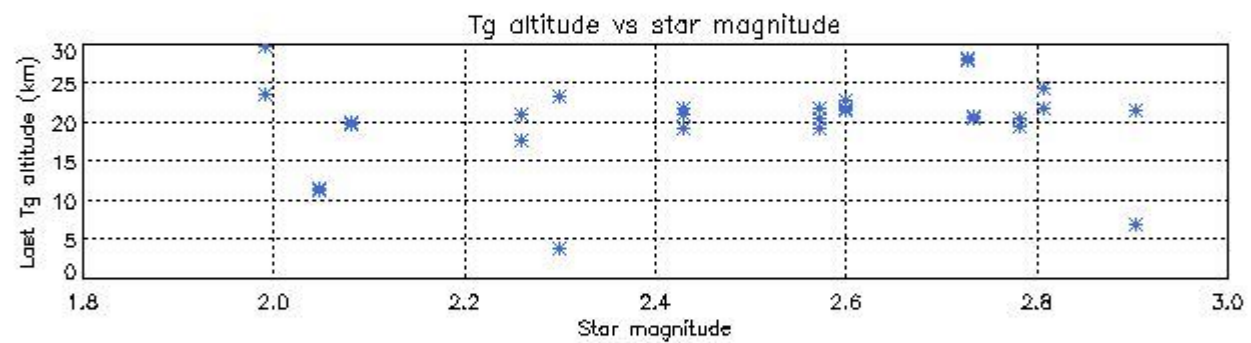
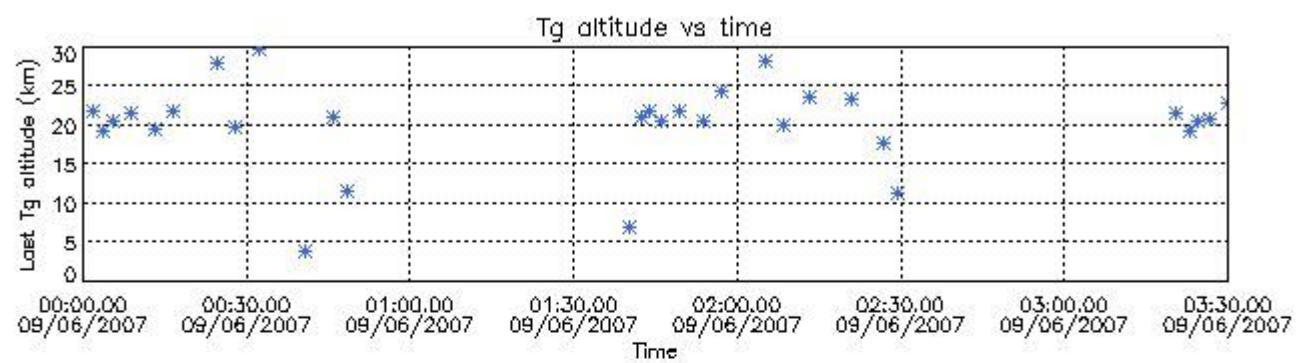
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



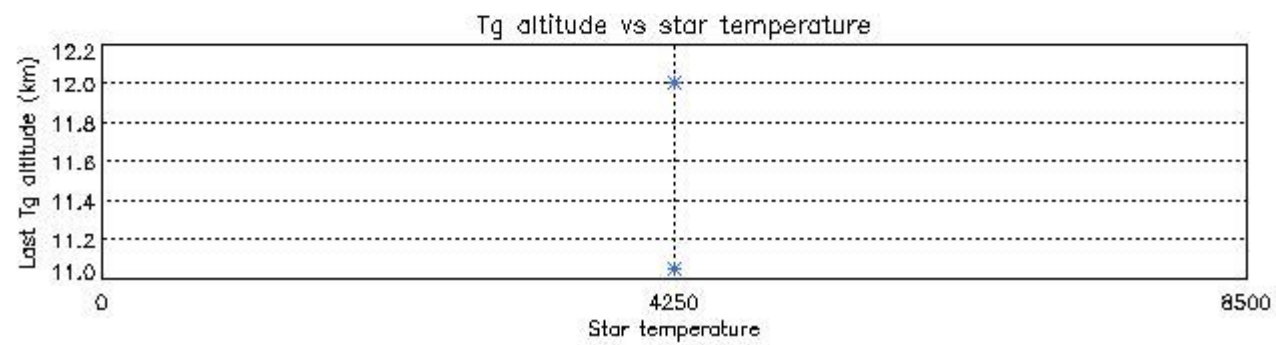
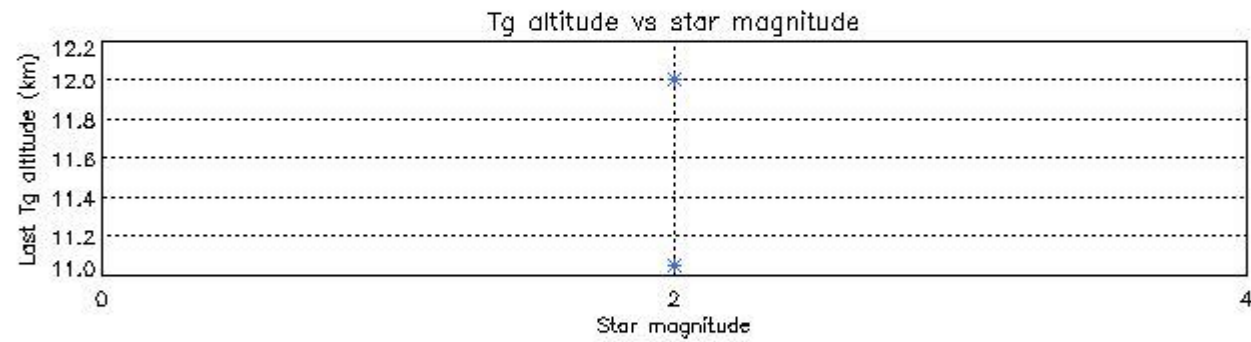
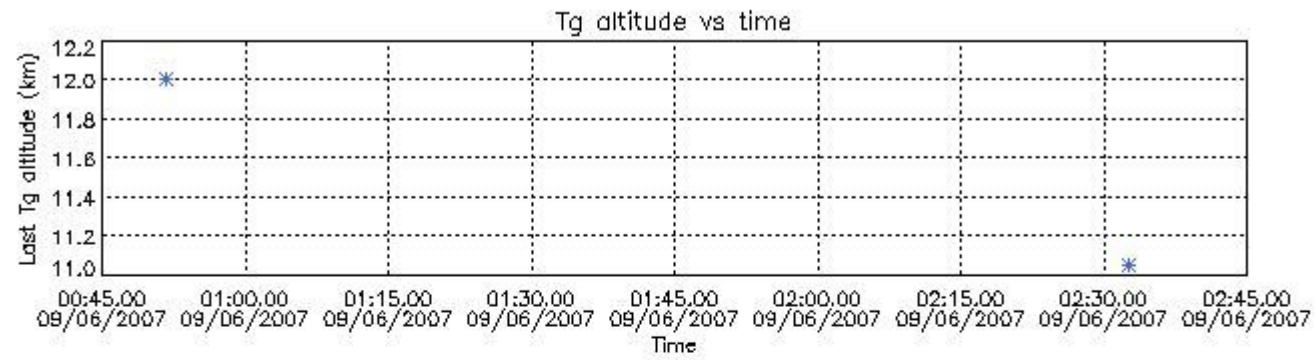
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

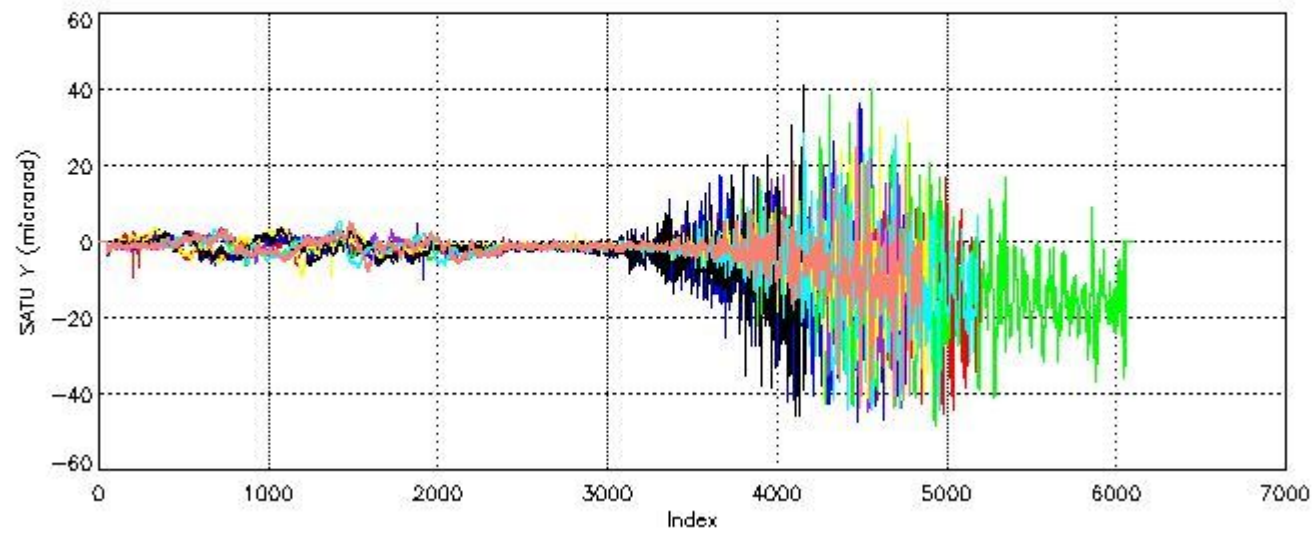
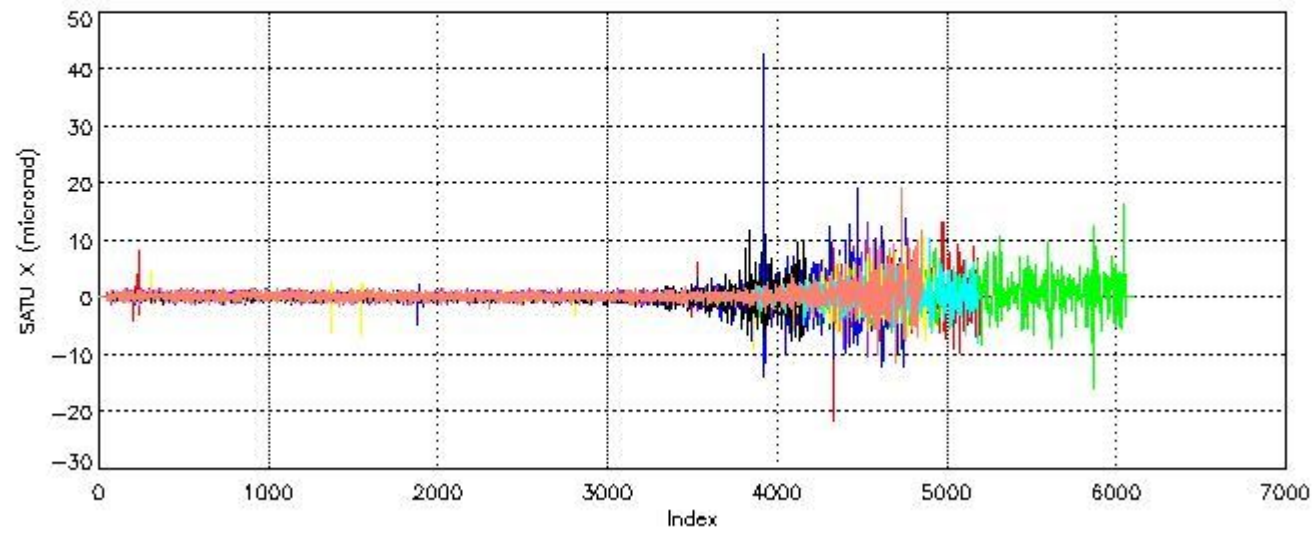


7. Star Acquisition and Tracking Unit (SATU)

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:	0.21266	-0.98275	0.16671	-0.99236
St. deviation:	0.35712	1.7838	0.68380	2.2761
Maximum:	8.4000	3.8000	3.8000	5.9000
Minimum:	-4.1000	-9.3000	-4.1000	-9.0000

Number of data:	8800.0	8800.0	25900.	25900.
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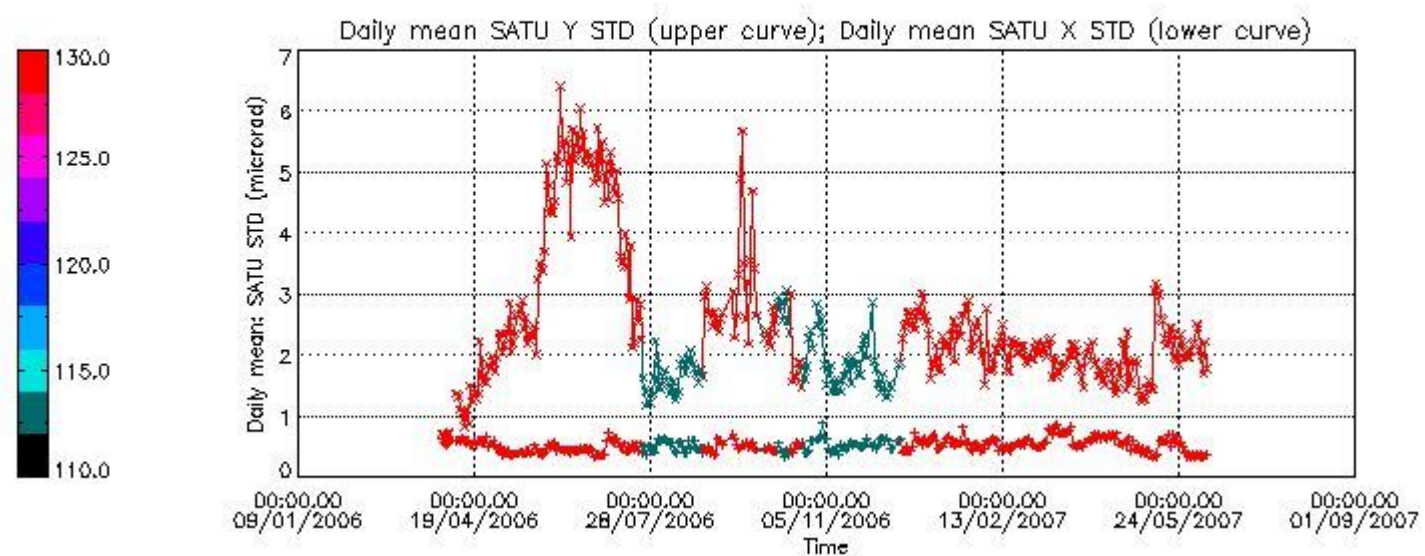
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

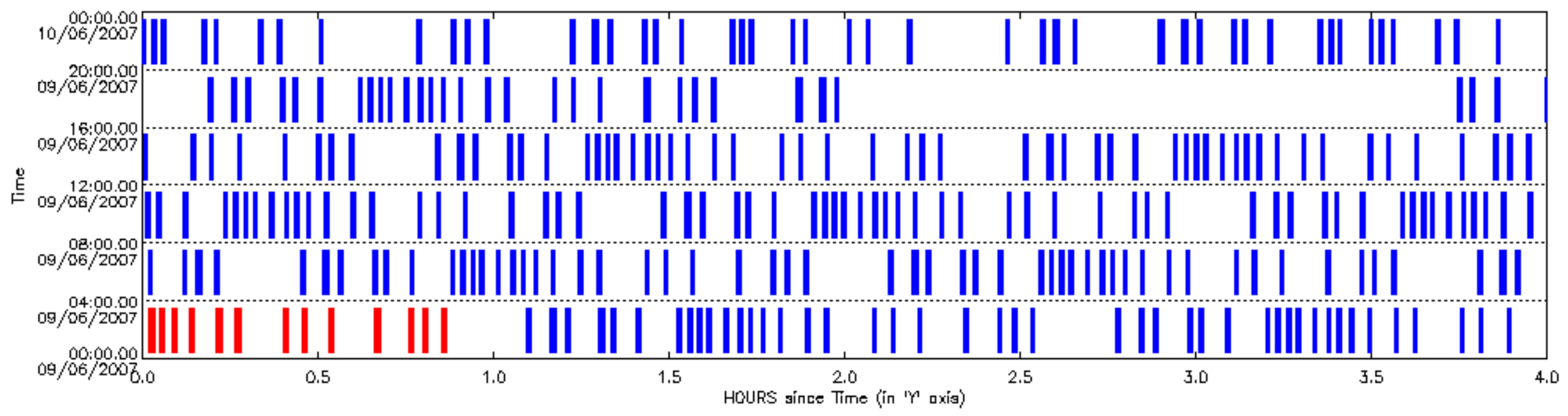
Lower curve: STD of SATU X axis

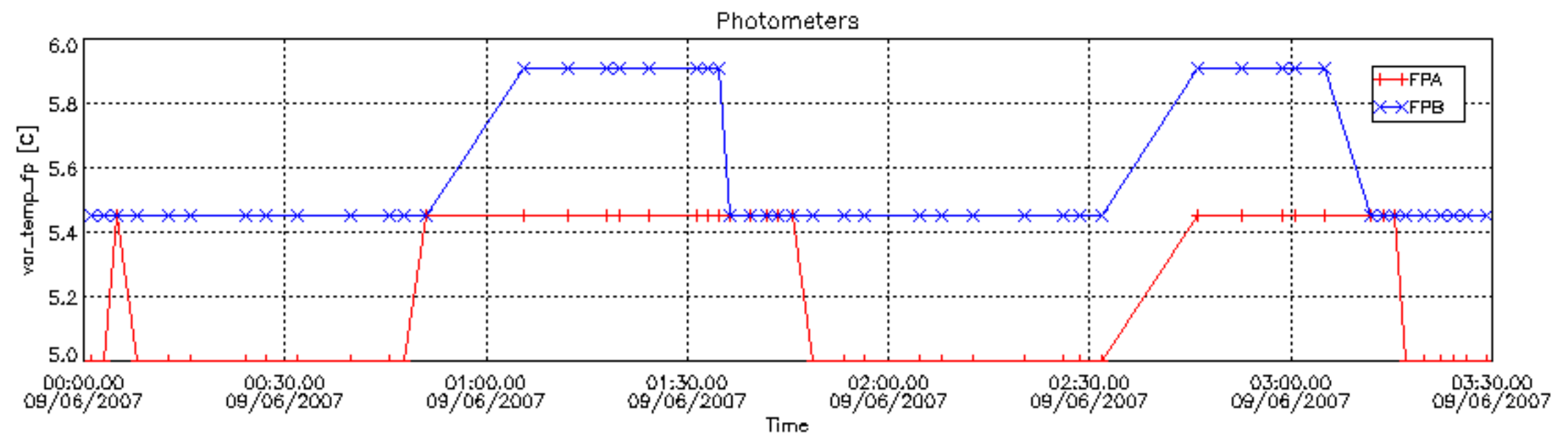
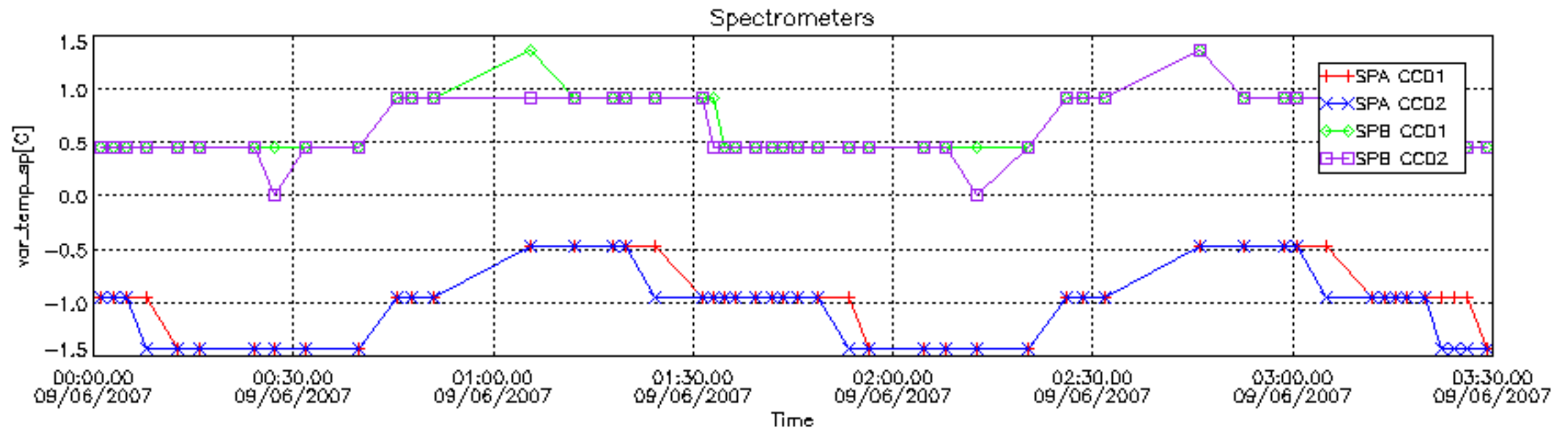


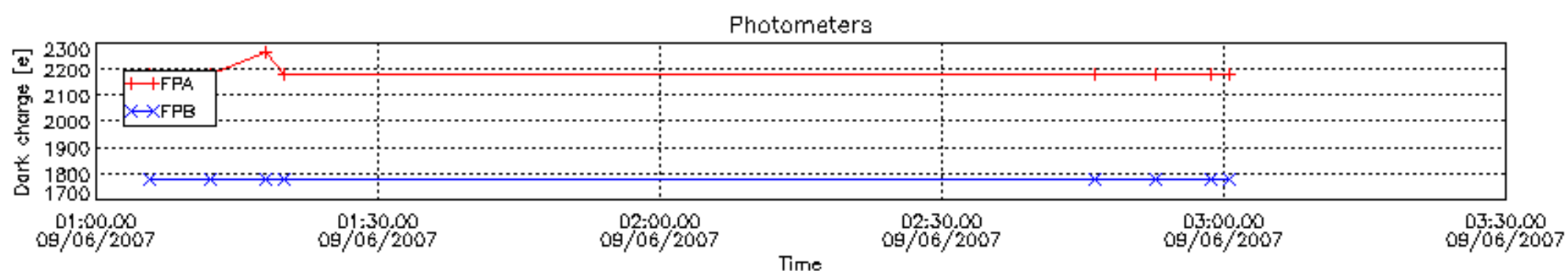
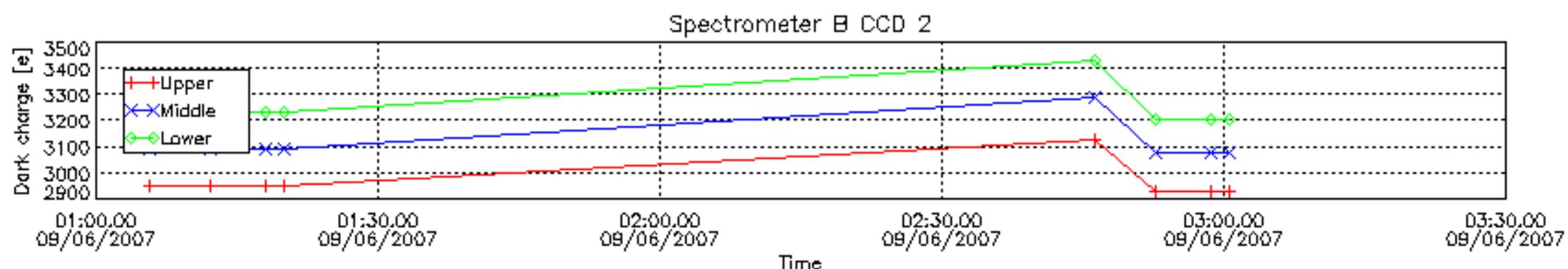
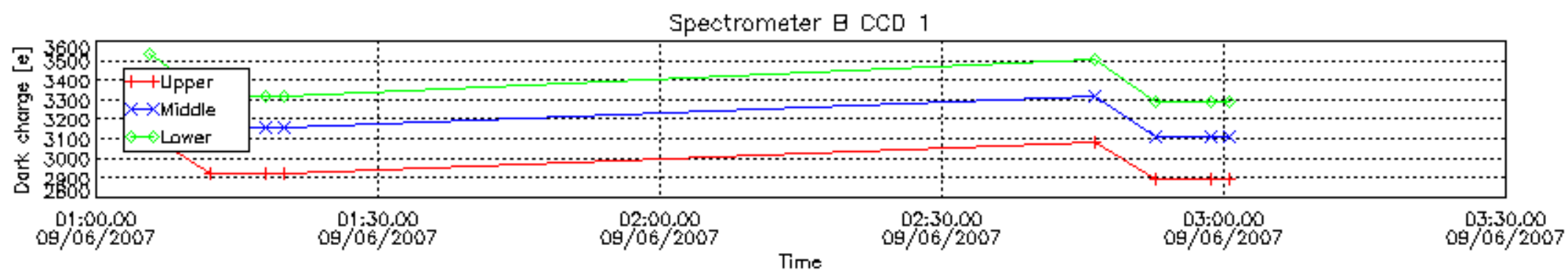
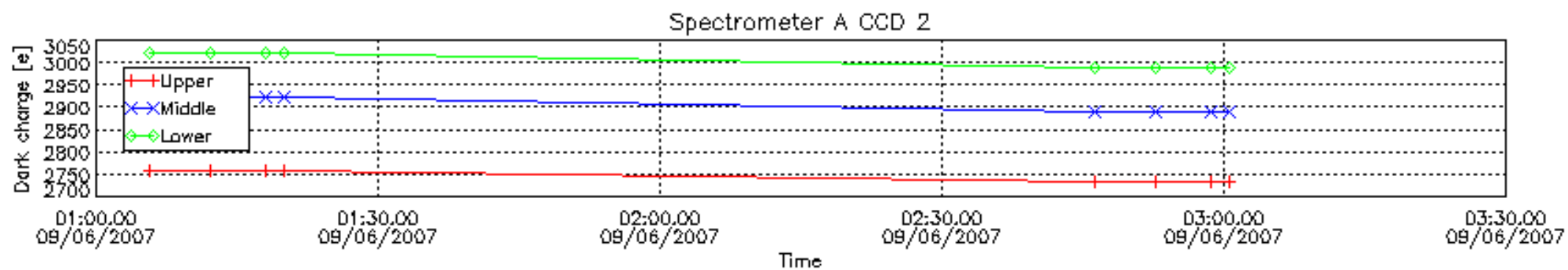
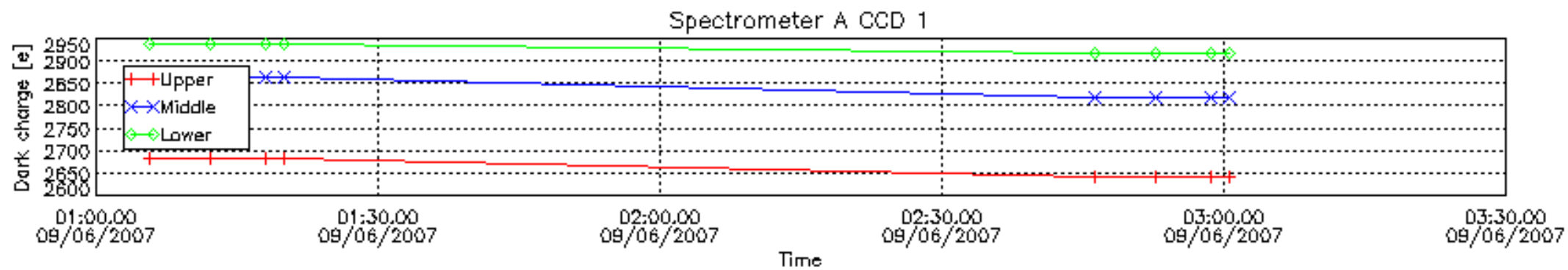
8. Auxiliary Data Files used for the production reported in section 2.4

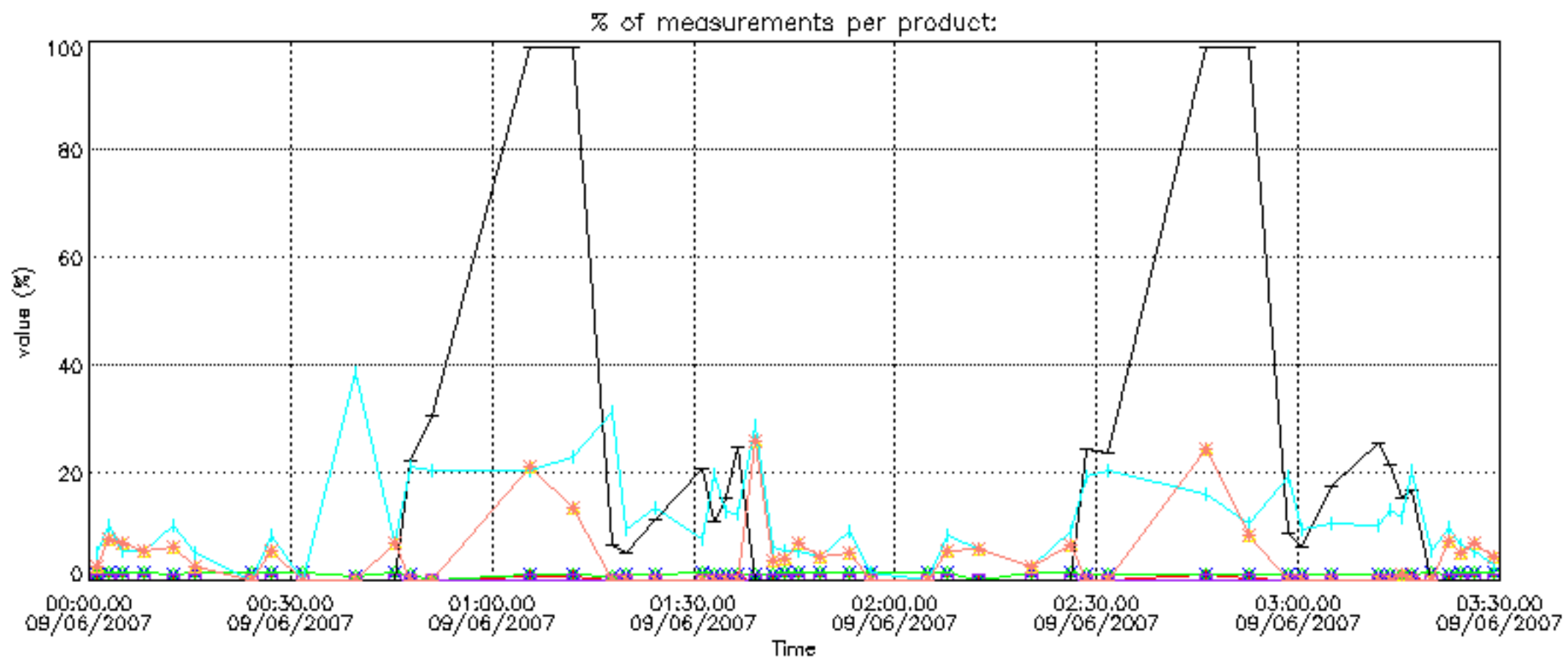
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	09-JUN-2007 00:01:09
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070605_142211_20070604_000000_20100101_000000	1	09-JUN-2007 00:01:09
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	09-JUN-2007 00:01:09
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	09-JUN-2007 00:01:09
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	09-JUN-2007 00:01:09
ECMWF_FILE	AUX_ECF_AXNECM20070608_061111_20070608_210000_20070609_090000	1	09-JUN-2007 00:01:09
OPTIONAL_ECMWF_FILE	MISSING	1	09-JUN-2007 00:01:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070608_213414_000060572058_00458_27566_3651.N1	1	09-JUN-2007 00:01:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070608_232030_000057382058_00459_27567_3652.N1	14	09-JUN-2007 01:05:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070609_021550_000054192058_00461_27569_3654.N1	33	09-JUN-2007 02:20:19

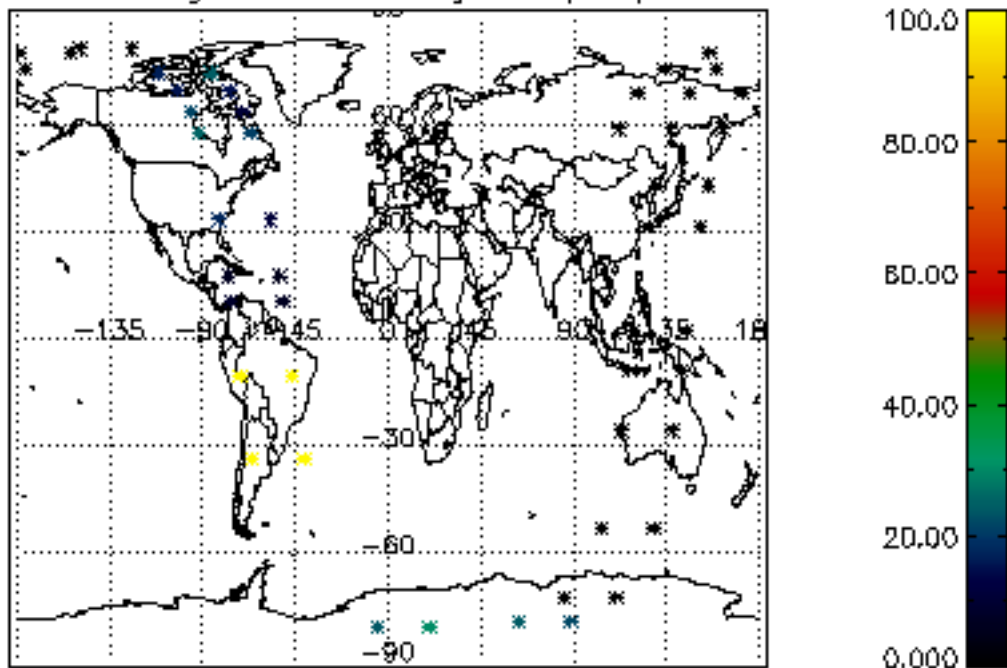




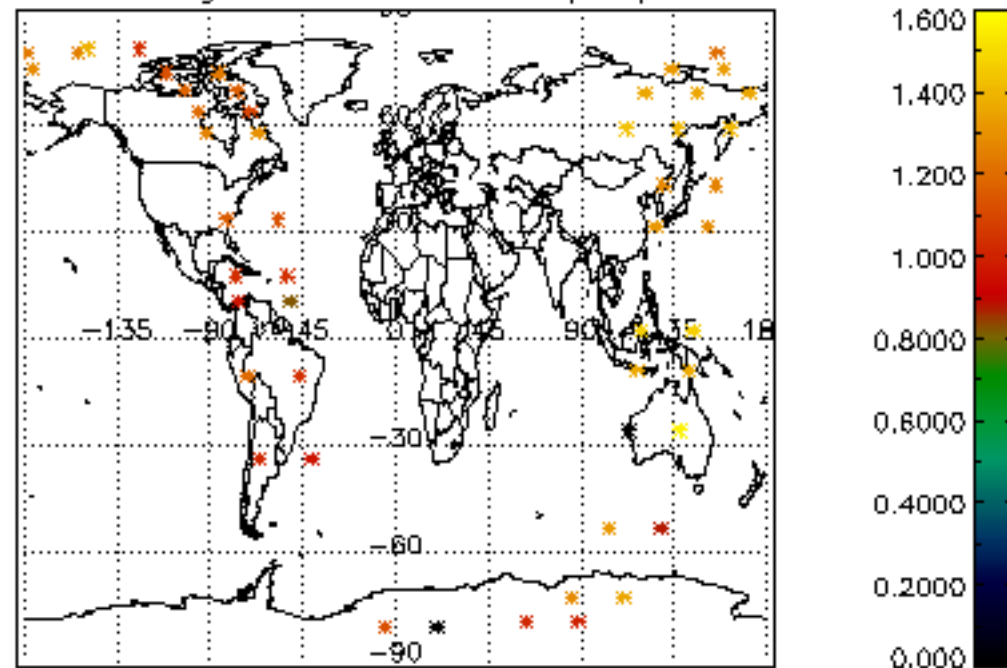




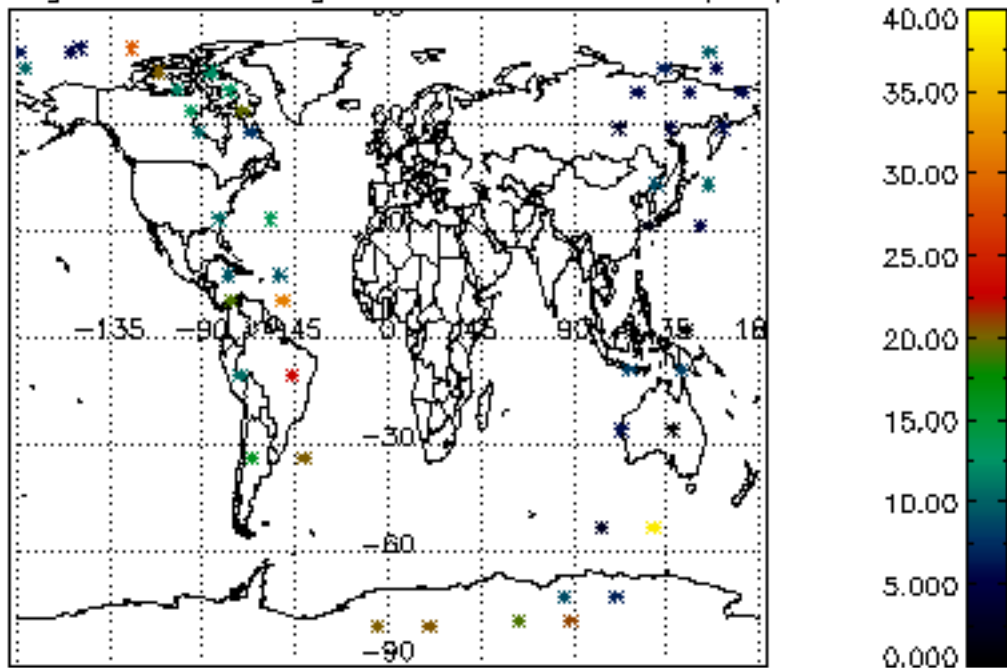
Percentage of cosmic ray hits per profile



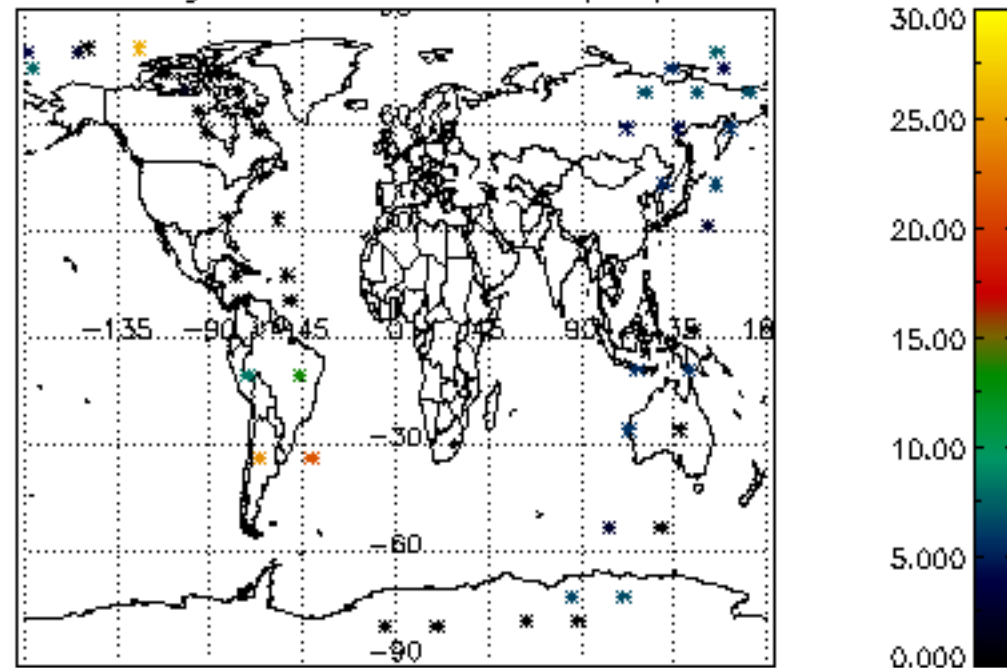
Percentage of datation errors per profile



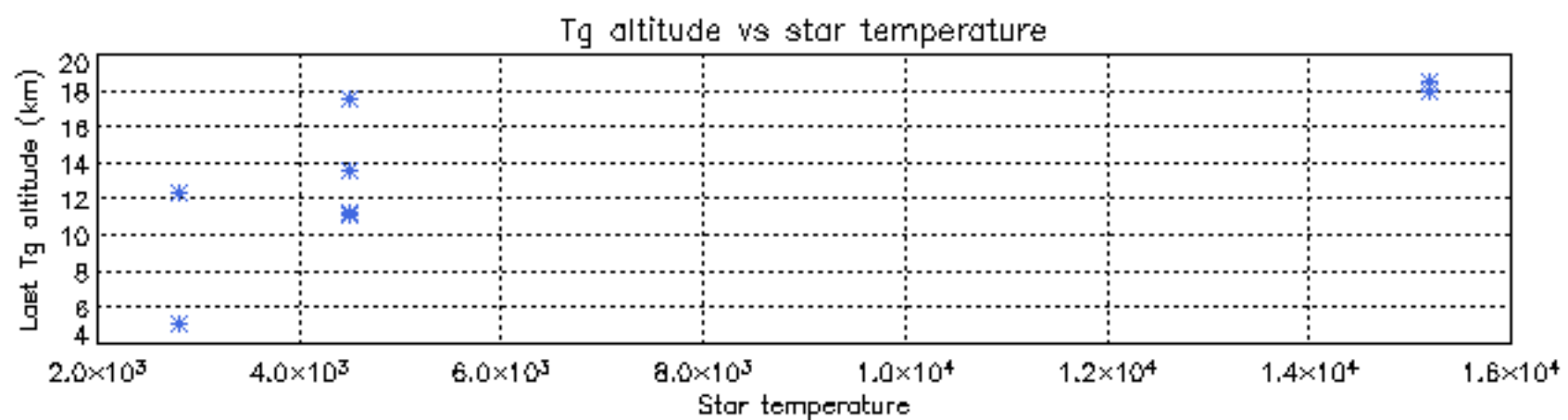
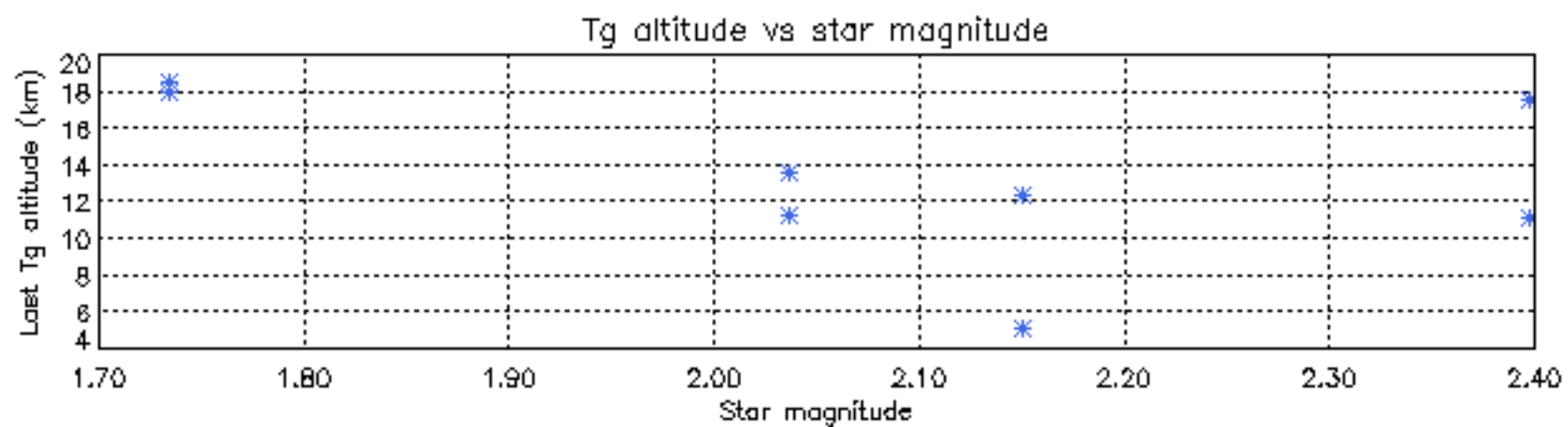
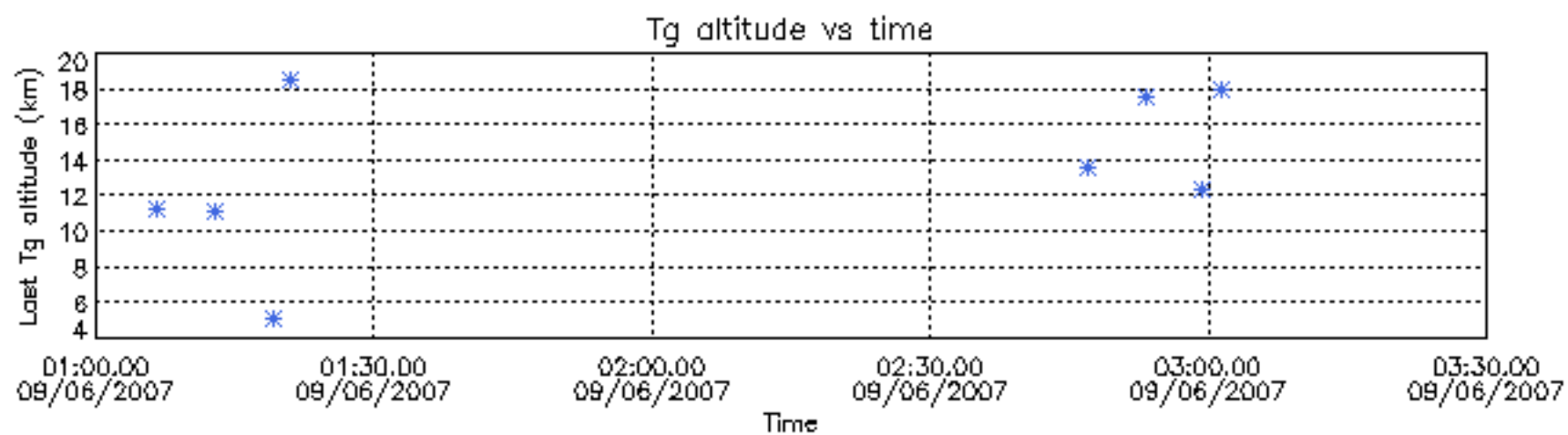
Percentage of star falling outside central band per profile



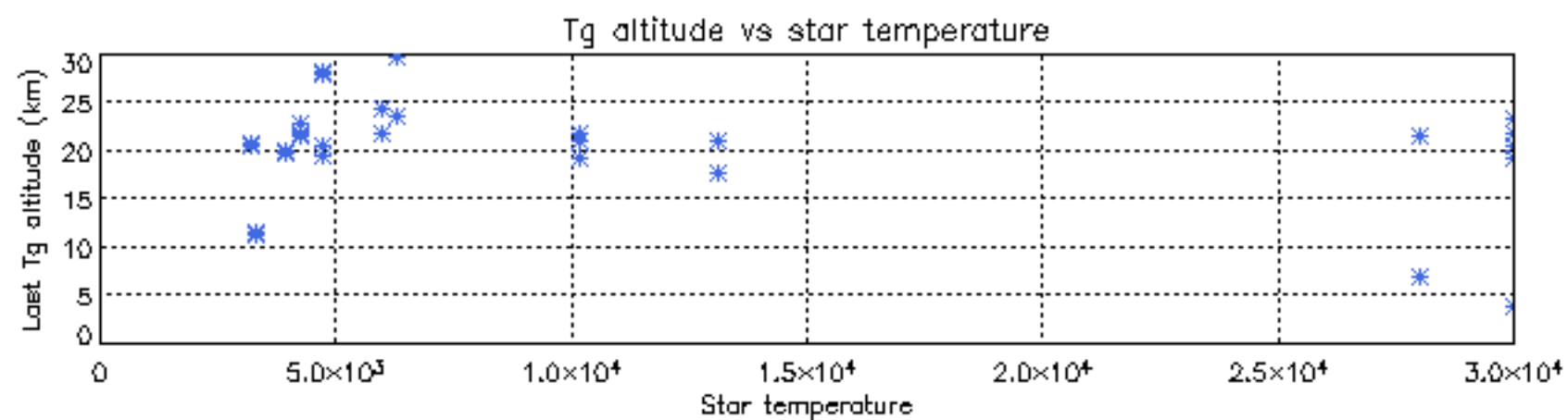
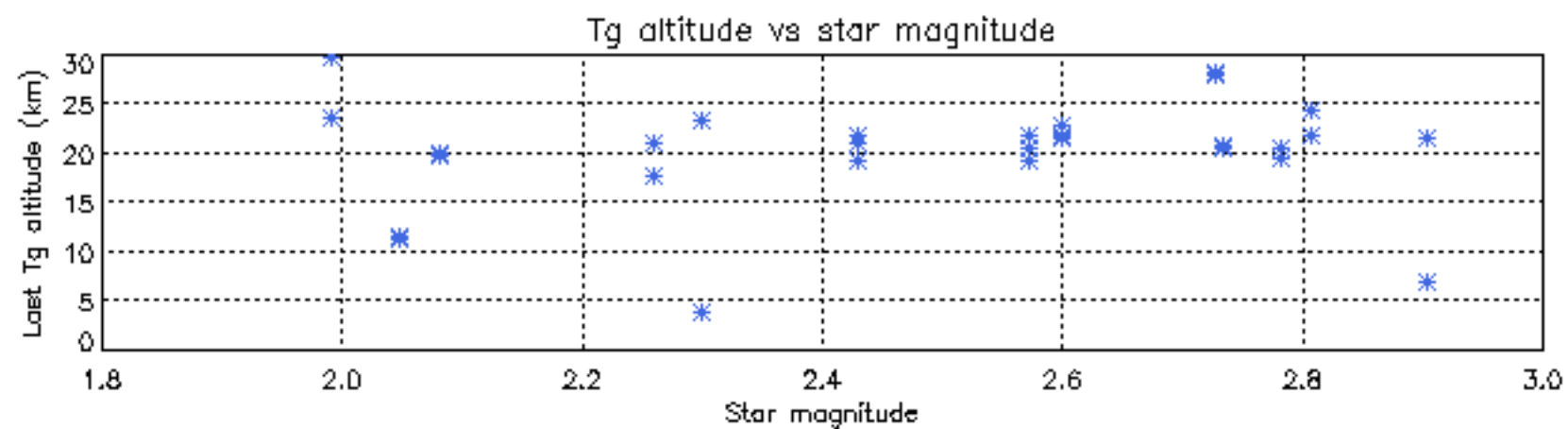
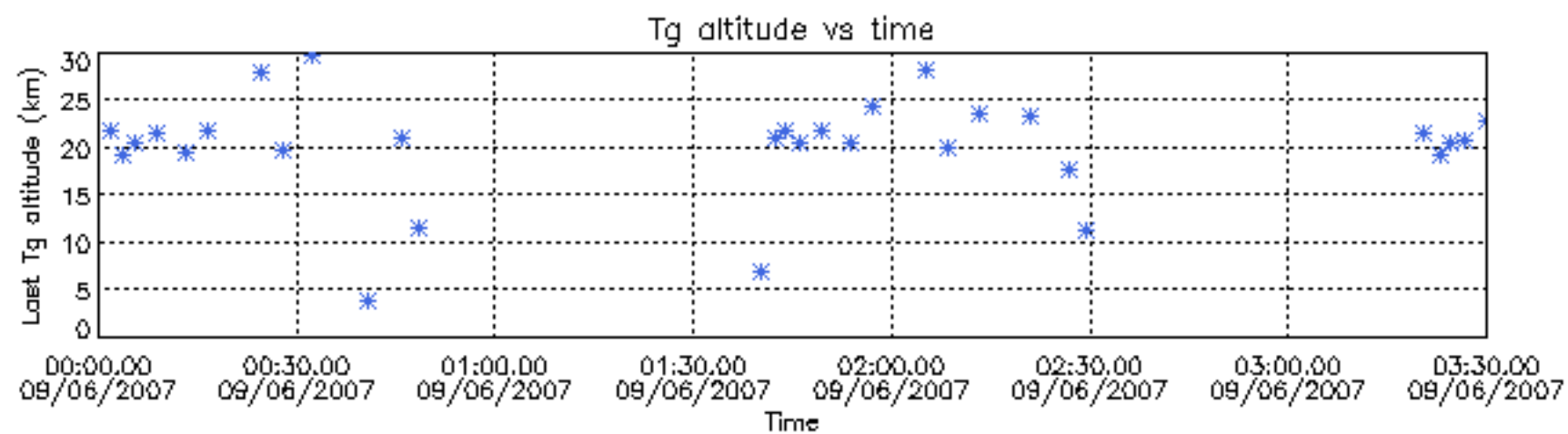
Percentage of saturation errors per profile



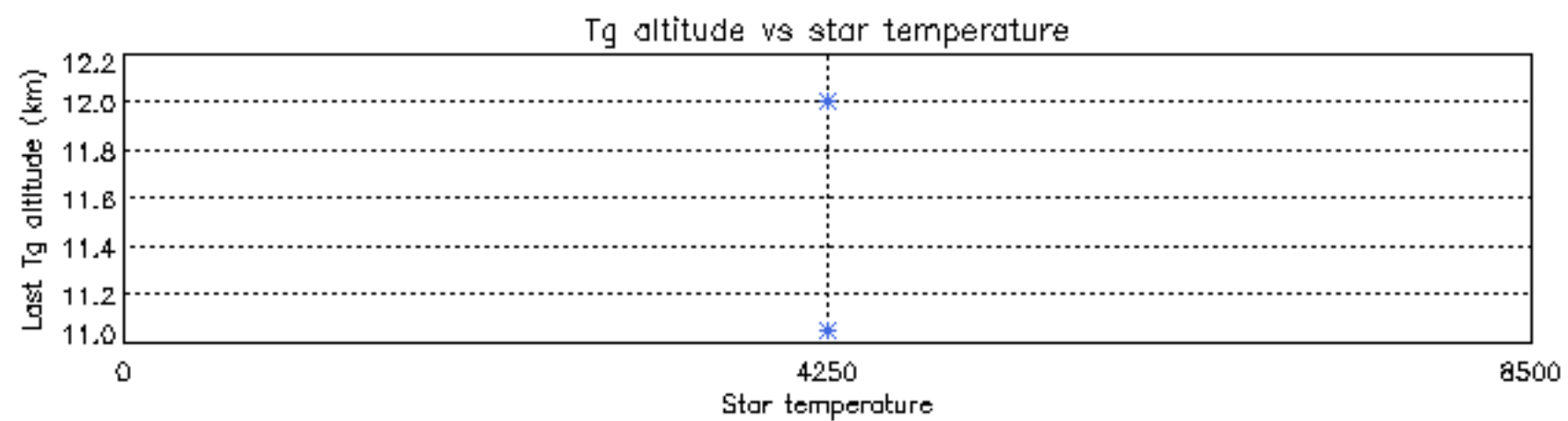
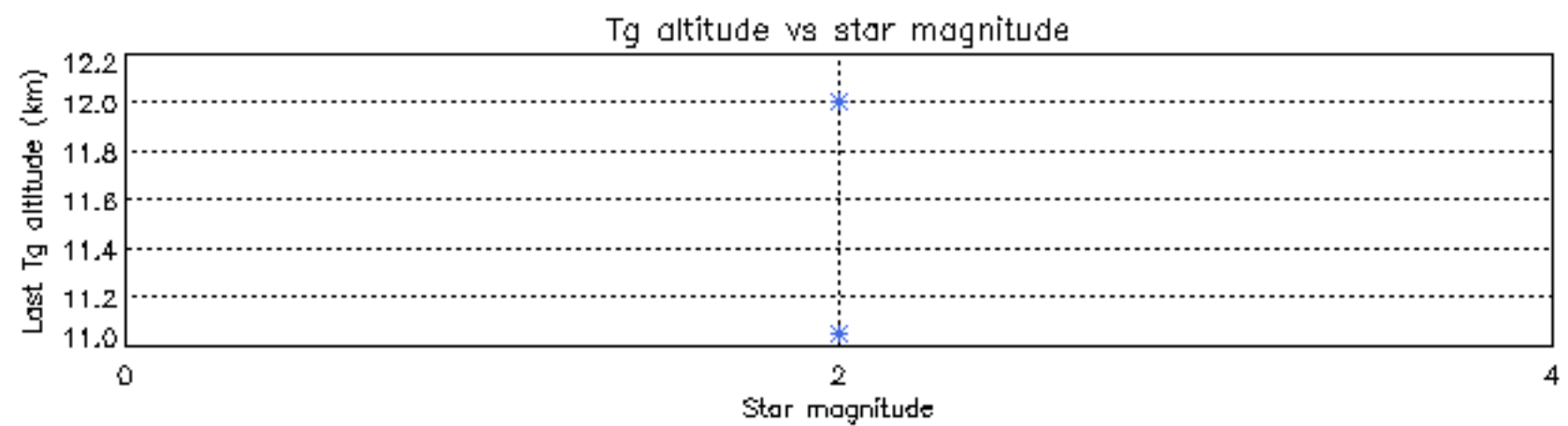
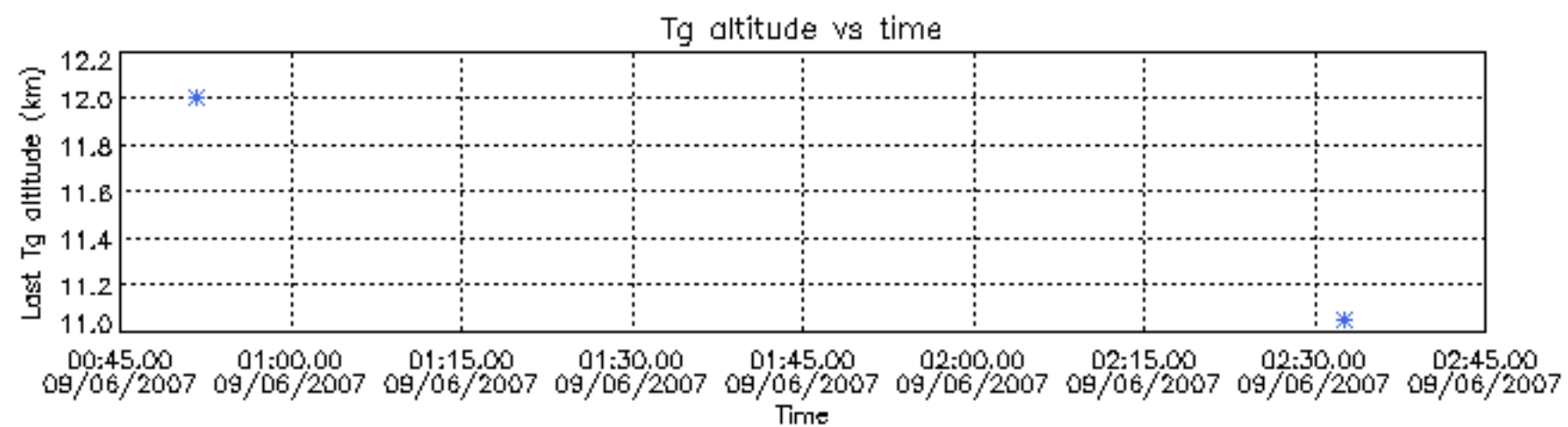
Tangent altitude at which the star is lost

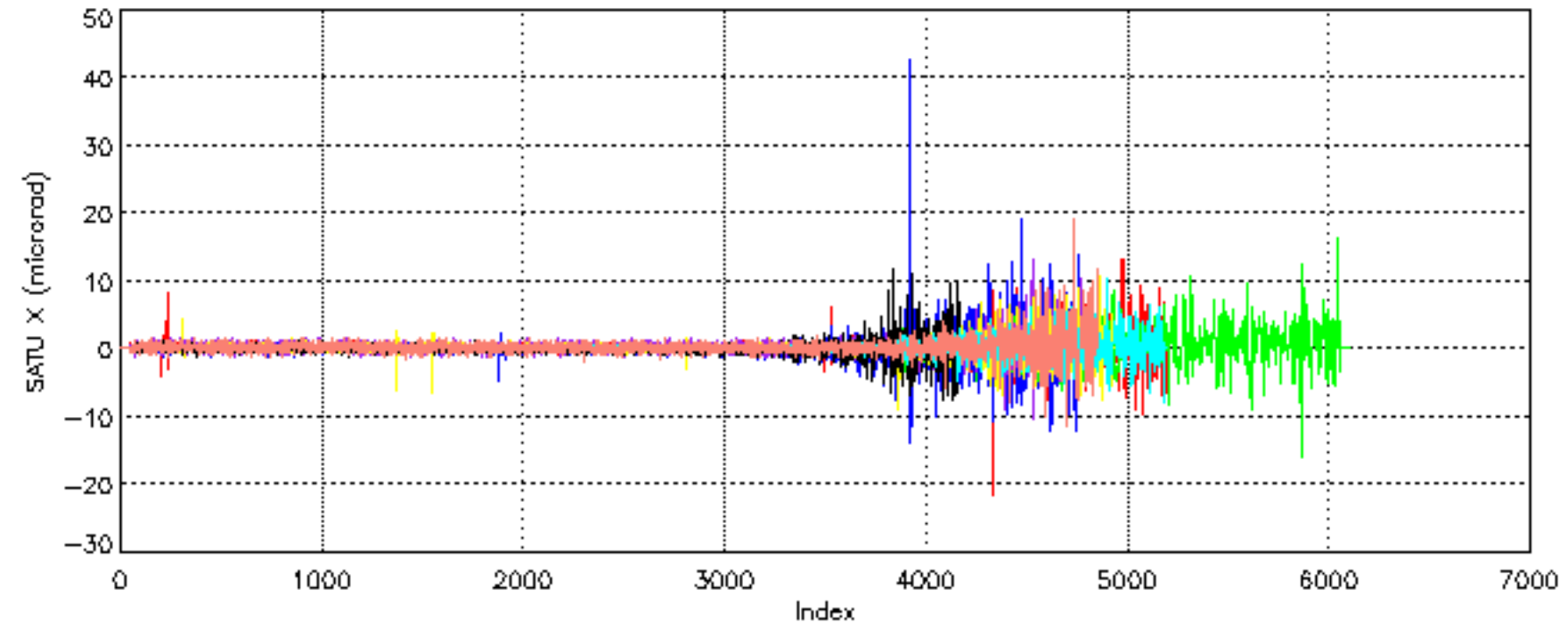


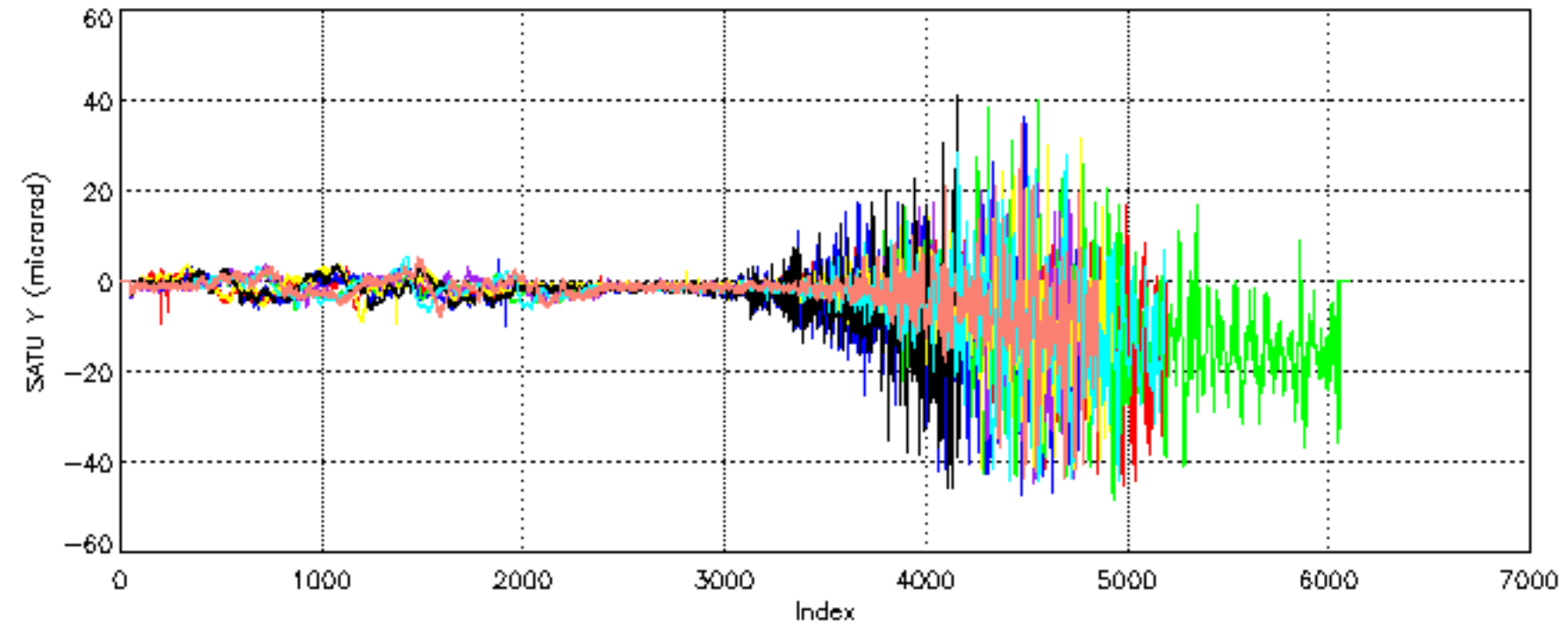
Tangent altitude at which the star is lost

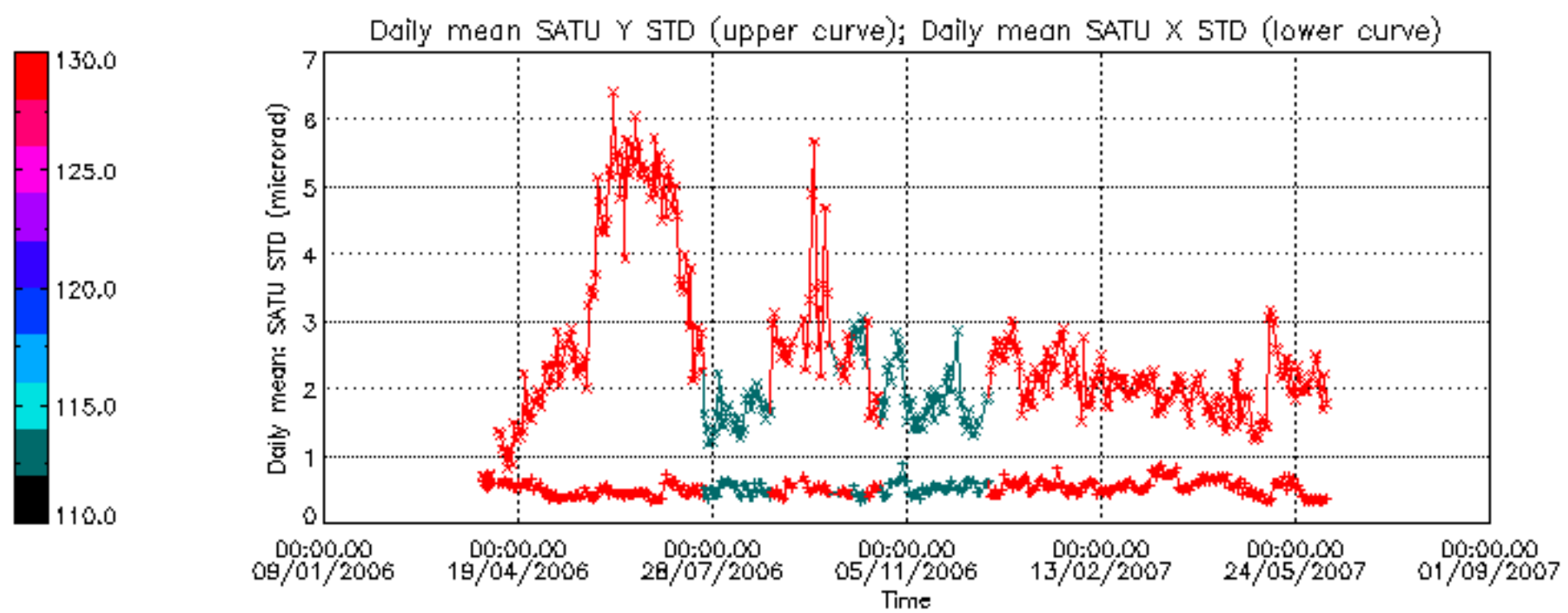


Tangent altitude at which the star is lost









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 3; -245.5; 01-JUN-2007 00:22:06; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;27453
 4; 71.8; 01-JUN-2007 00:27:23; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27454
 5; 183.7; 01-JUN-2007 00:29:15; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;27454
 6; 483.8; 01-JUN-2007 00:34:15; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27454
 7; 857.6; 01-JUN-2007 00:40:29; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27454
 8; 932.4; 01-JUN-2007 00:41:44; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;27454
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 10; 1141.6; 01-JUN-2007 00:45:13; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;27454
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 13; 1543.0; 01-JUN-2007 00:51:54; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27454
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 16; 2015.0; 01-JUN-2007 00:59:46; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27454
 17; 2369.9; 01-JUN-2007 01:05:41; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27454
 18; 3006.7; 01-JUN-2007 01:16:18; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27454
 19; 3166.1; 01-JUN-2007 01:18:57; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27454
 20; 3446.7; 01-JUN-2007 01:23:38; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27454
 21; 3929.6; 01-JUN-2007 01:31:41; Bright; 55.0; 76; 27Gam Cas ; 2.30; 30000;occ; 110; 0;27454
 22; 4393.6; 01-JUN-2007 01:39:25; Bright; 43.0; 53; 43Bet And ; 2.05; 3300;occ; 86; 0;27454

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 6; 484.5; 01-JUN-2007 02:14:52; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27455
 7; 858.0; 01-JUN-2007 02:21:05; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;27455
 8; 932.9; 01-JUN-2007 02:22:20; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27455
 9; 1034.0; 01-JUN-2007 02:24:01; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27455
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 13; 1543.3; 01-JUN-2007 02:32:30; Bright; 39.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 78; 0;27455
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 9; 858.6; 01-JUN-2007 04:01:42; Dark ; 45.0; 141; Bet Ara ; 2.84; 4600;occ; 90; 0;27456
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 21; 3166.2; 01-JUN-2007 04:40:09; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;27456
 22; 3446.8; 01-JUN-2007 04:44:50; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;27456

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 8; 486.0; 01-JUN-2007 05:36:05; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27457
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 21; 3166.2; 01-JUN-2007 06:20:45; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27457
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2; 1373.6; 01-JUN-2007 15:54:28; Dark ; 56.0; 136; 23Tau Sco ; 2.82; 30000;occ; 112; 0;27463
3; 1544.6; 01-JUN-2007 15:57:19; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27463
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14; 6241.2; 02-JUN-2007 15:03:23; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;27476

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 15; 3925.5; 03-JUN-2007 20:35:34; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;27494
 16; 4397.7; 03-JUN-2007 20:43:26; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;27494

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 4; 107.2; 03-JUN-2007 21:12:32; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 0;27495
 5; 222.4; 03-JUN-2007 21:14:27; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;27495
 6; 511.8; 03-JUN-2007 21:19:16; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;27495
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 16; 2014.5; 03-JUN-2007 21:44:19; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27495
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 22; 4397.6; 03-JUN-2007 22:24:02; Bright; 45.0; 53; 43Bet And ; 2.05; 3300;occ; 90; 0;27495

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 16; 2014.4; 03-JUN-2007 23:24:55; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27496
 17; 2310.5; 03-JUN-2007 23:29:51; Bright; 41.5; 127; 27Bet Her ; 2.78; 4700;occ; 83; 0;27496
 18; 2995.0; 03-JUN-2007 23:41:15; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;27496
 19; 3165.3; 03-JUN-2007 23:44:06; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;27496
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 22; 4397.8; 04-JUN-2007 00:04:38; Bright; 57.5; 53; 43Bet And ; 2.05; 3300;occ; 115; 0;27496

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14; 6007.7; 03-JUN-2007 09:26:05; Dark ; 35.0; 0; ; 0.00; 0;occ; 70; 0;27487
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16; 6487.6; 03-JUN-2007 09:34:05; Dark ; 98.0; 45; Alp Pav ; 1.94; 26000;occ; 196; 0;27487
17; 6854.2; 03-JUN-2007 09:40:11; Dark ; 91.5; 141; Bet Ara ; 2.84; 4600;occ; 183; 0;27487
18; 7027.9; 03-JUN-2007 09:43:05; Dark ; 102.0; 40; The Sco ; 1.86; 7100;occ; 204; 0;27487
19; 7240.2; 03-JUN-2007 09:46:37; Dark ; 100.0; 75; 26Eps Sco ; 2.29; 4250;occ; 200; 0;27487
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6; 3395.3; 03-JUN-2007 10:23:08; Bright; 87.0; 49; 1Alp UMi ; 1.99; 6300;occ; 174; 0;27488
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14; 6854.6; 03-JUN-2007 11:20:48; Dark ; 94.5; 141; Bet Ara ; 2.84; 4600;occ; 189; 0;27488
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6; 3395.2; 03-JUN-2007 12:03:44; Bright; 87.0; 49; 1Alp UMi ; 1.99; 6300;occ; 174; 0;27489
7; 3871.2; 03-JUN-2007 12:11:40; Bright; 91.5; 76; 27Gam Cas ; 2.30; 30000;occ; 183; 0;27489
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4;	145.6;	06-JUN-2007	21:18:55;	Dark	;	50.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	100;	0;	27538
5;	263.6;	06-JUN-2007	21:20:53;	Dark	;	47.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	94;	0;	27538
6;	540.6;	06-JUN-2007	21:25:30;	Dark	;	44.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	88;	0;	27538
7;	887.7;	06-JUN-2007	21:31:17;	Dark	;	39.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	78;	0;	27538
8;	965.6;	06-JUN-2007	21:32:35;	Dark	;	39.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	79;	0;	27538
9;	1068.6;	06-JUN-2007	21:34:18;	Dark	;	45.0;	40;	The	Sco	;	1.86;	7100;	occ;	90;	0;	27538
10;	1174.6;	06-JUN-2007	21:36:04;	Dark	;	46.0;	25;	35Lam	Sco	;	1.62;	28000;	occ;	92;	0;	27538
11;	1272.7;	06-JUN-2007	21:37:42;	Dark	;	45.0;	75;	26Eps	Sco	;	2.29;	4250;	occ;	90;	0;	27538
12;	1390.5;	06-JUN-2007	21:39:40;	Dark	;	42.5;	136;	23Tau	Sco	;	2.82;	30000;	occ;	85;	0;	27538
13;	1511.3;	06-JUN-2007	21:41:41;	Bright;		37.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	75;	0;	27538
14;	1598.7;	06-JUN-2007	21:43:08;	Bright;		42.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	85;	0;	27538
15;	1706.5;	06-JUN-2007	21:44:56;	Bright;		38.5;	98;	13Zet	Oph	;	2.57;	30000;	occ;	77;	0;	27538
16;	1834.8;	06-JUN-2007	21:47:04;	Bright;		37.5;	120;	1Del	Oph	;	2.73;	3200;	occ;	75;	0;	27538
17;	2015.0;	06-JUN-2007	21:50:05;	Bright;		35.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	70;	0;	27538
18;	2298.6;	06-JUN-2007	21:54:48;	Bright;		40.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	80;	0;	27538
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21;	3165.2;	06-JUN-2007	22:09:15;	Bright;		36.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	73;	0;	27538
22;	3446.6;	06-JUN-2007	22:13:56;	Bright;		35.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	71;	0;	27538
23;	3920.0;	06-JUN-2007	22:21:50;	Bright;		36.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	72;	0;	27538
24;	4262.7;	06-JUN-2007	22:27:32;	Bright;		54.0;	73;	57Gam1	And	;	2.26;	13100;	occ;	108;	0;	27538
25;	4401.4;	06-JUN-2007	22:29:51;	Dark	;	52.0;	53;	43Bet	And	;	2.05;	3300;	occ;	104;	0;	27538
26;	4648.5;	06-JUN-2007	22:33:58;	Dark	;	40.5;	105;	6Bet	Ari	;	2.64;	8900;	occ;	81;	0;	27538

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5;	264.5;	06-JUN-2007	23:01:30;	Dark	;	52.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	104;	0;	27539
6;	541.3;	06-JUN-2007	23:06:07;	Dark	;	42.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	85;	0;	27539
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14;	1598.8;	06-JUN-2007	23:23:44;	Bright;		43.0;	86;	35Eta	Oph	;	2.43;	10200;	occ;	86;	0;	27539
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17;	2015.0;	06-JUN-2007	23:30:40;	Bright;		35.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	70;	0;	27539
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17; 6308.3; 07-JUN-2007 12:26:25; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;27546
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 3; 1836.4; 09-JUN-2007 08:28:03; Bright; 37.0; 120; 1Del Oph ; 2.73; 3200;occ; 74; 0;27573
 4; 2016.9; 09-JUN-2007 08:31:04; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;27573
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 8; 3165.7; 09-JUN-2007 08:50:13; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;27573
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16; 5863.5; 09-JUN-2007 09:35:11; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;27573
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21; 7118.2; 09-JUN-2007 09:56:05; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;27573

```

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13; 5472.9; 09-JUN-2007 11:09:16; Dark ; 53.0; 52; 16Bet Cet ; 2.04; 4500;occ; 106; 0;27574
14; 5709.3; 09-JUN-2007 11:13:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27574
15; 5864.1; 09-JUN-2007 11:15:47; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;27574
16; 6215.5; 09-JUN-2007 11:21:38; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;27574
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18; 6600.8; 09-JUN-2007 11:28:04; Dark ; 48.5; 45; Alp Pav ; 1.94; 26000;occ; 97; 0;27574
19; 7014.9; 09-JUN-2007 11:34:58; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;27574
20; 7118.5; 09-JUN-2007 11:36:41; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;27574
21; 7223.6; 09-JUN-2007 11:38:27; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;27574
22; 7318.3; 09-JUN-2007 11:40:01; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;27574
23; 7489.8; 09-JUN-2007 11:42:53; Bright; 36.5; 156; 20Sig Sco ; 2.90; 28000;occ; 73; 0;27574
24; 7638.6; 09-JUN-2007 11:45:22; Bright; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;27574
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19; 7015.4; 09-JUN-2007 13:15:34; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;27575
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 4; 2017.1; 09-JUN-2007 13:32:52; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;27576
 5; 2290.4; 09-JUN-2007 13:37:25; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;27576
 6; 2482.4; 09-JUN-2007 13:40:37; Bright; 39.5; 133; 40Zet Her ; 2.81; 6000;occ; 79; 0;27576
 7; 2976.8; 09-JUN-2007 13:48:51; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27576
 8; 3165.7; 09-JUN-2007 13:52:00; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;27576
 9; 3446.8; 09-JUN-2007 13:56:42; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;27576
10; 3914.7; 09-JUN-2007 14:04:29; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;27576
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12; 4404.6; 09-JUN-2007 14:12:39; Dark ; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;27576

```


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 12; 4265.6; 09-JUN-2007 15:50:56; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;27577
 13; 4404.8; 09-JUN-2007 15:53:15; Dark ; 48.0; 53; 43Bet And ; 2.05; 3300;occ; 96; 0;27577
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 13; 2288.8; 10-JUN-2007 01:21:35; Bright; 39.5; 127; 27Bet Her ; 2.78; 4700;occ; 79; 0;27583
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4; 199.3; 10-JUN-2007 22:34:33; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;27596
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6; 578.4; 10-JUN-2007 22:40:52; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;27596
7; 1090.2; 10-JUN-2007 22:49:24; Dark ; 47.0; 40; The Sco ; 1.86; 7100;occ; 94; 0;27596
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13; 2286.6; 10-JUN-2007 23:09:20; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;27596
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 5; 3180.7; 25-JUN-2007 10:28:12; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;27803
 6; 3446.0; 25-JUN-2007 10:32:37; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27803
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 8; 4289.7; 25-JUN-2007 10:46:41; Bright; 36.5; 79; 26Bet Per ; 2.31; 13100;occ; 73; 0;27803
 9; 4944.5; 25-JUN-2007 10:57:35; Dark ; 36.5; 94; 92Alp Cet ; 2.53; 3100;occ; 73; 0;27803
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 12; 6467.4; 25-JUN-2007 11:22:58; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;27803
 13; 6737.3; 25-JUN-2007 11:27:28; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27803
 14; 6995.3; 25-JUN-2007 11:31:46; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27803
 15; 7080.8; 25-JUN-2007 11:33:12; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;27803
 16; 7187.6; 25-JUN-2007 11:34:59; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27803
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 18; 7373.7; 25-JUN-2007 11:38:05; Dark ; 46.0; 167; 10Gam2Sgr ; 2.98; 4500;occ; 92; 0;27803
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 16; 6998.5; 26-JUN-2007 12:40:48; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;27818
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070626_125158_000057872059_00210_27819_8181.N1

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 12; 5677.9; 26-JUN-2007 13:59:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27819
 13; 6039.4; 26-JUN-2007 14:05:25; Dark ; 49.5; 9; Alp Eri ; 0.45; 24000;occ; 99; 0;27819
 14; 6477.4; 26-JUN-2007 14:12:43; Dark ; 41.5; 148; Alp Tuc ; 2.88; 4100;occ; 83; 0;27819
 15; 6746.0; 26-JUN-2007 14:17:12; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;27819
 16; 6998.7; 26-JUN-2007 14:21:24; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;27819
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070626_143235_000056972059_00211_27820_8182.N1

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 16; 6998.9; 26-JUN-2007 16:02:01; Dark ; 37.0; 141; Bet Ara ; 2.84; 4600;occ; 74; 0;27820
 17; 7084.8; 26-JUN-2007 16:03:26; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;27820
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6; 1633.2; 26-JUN-2007 19:34:23; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;27823
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22; 6999.4; 26-JUN-2007 21:03:49; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;27823
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4; 713.0; 27-JUN-2007 00:20:50; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;27826
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6; 1049.8; 27-JUN-2007 00:26:27; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;27826
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11; 1737.8; 27-JUN-2007 02:18:31; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;27827
12; 2276.8; 27-JUN-2007 02:27:30; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;27827
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6; 446.4; 27-JUN-2007 03:37:35; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;27828
7; 714.3; 27-JUN-2007 03:42:03; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;27828
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 6; 2446.8; 29-JUN-2007 14:51:53; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;27863
 7; 2813.7; 29-JUN-2007 14:58:00; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27863
 8; 2951.9; 29-JUN-2007 15:00:18; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;27863
 9; 3188.1; 29-JUN-2007 15:04:15; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27863
 10; 3445.7; 29-JUN-2007 15:08:32; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27863
 11; 4064.2; 29-JUN-2007 15:18:51; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;27863
 12; 4164.8; 29-JUN-2007 15:20:31; Bright; 33.0; 175; 39Del Per ; 3.01; 19400;occ; 66; 0;27863
 13; 4293.9; 29-JUN-2007 15:22:41; Bright; 49.0; 79; 26Bet Per ; 2.31; 13100;occ; 98; 0;27863
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 13; 2951.7; 29-JUN-2007 21:42:42; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;27867
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070629_222006_000060732059_00258_27867_3876.N1

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 4; 470.6; 29-JUN-2007 22:41:57; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;27868
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 9; 1350.5; 29-JUN-2007 22:56:37; Dark ; 47.5; 116; 19Del Sgr ; 2.70; 4100;occ; 95; 0;27868
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 12; 1982.6; 29-JUN-2007 23:07:09; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;27868
 13; 2123.3; 29-JUN-2007 23:09:30; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;27868
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 17; 2951.8; 29-JUN-2007 23:23:18; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;27868
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 22; 4294.0; 29-JUN-2007 23:45:40; Bright; 30.0; 79; 26Bet Per ; 2.31; 13100;occ; 60; 0;27868
 23; 4968.9; 29-JUN-2007 23:56:55; Dark ; 48.5; 94; 92Alp Cet ; 2.53; 3100;occ; 97; 0;27868
 24; 5195.4; 30-JUN-2007 00:00:42; Dark ; 37.5; 165; 34Gam Eri ; 2.95; 3200;occ; 75; 0;27868

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 5; 1982.9; 29-JUN-2007 16:24:46; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;27864
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 10; 2951.8; 29-JUN-2007 16:40:54; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;27864
 11; 3188.2; 29-JUN-2007 16:44:51; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;27864
 12; 3445.7; 29-JUN-2007 16:49:08; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27864
 13; 4064.1; 29-JUN-2007 16:59:27; Bright; 50.0; 160; 23Gam Per ; 2.93; 4700;occ; 100; 0;27864
 14; 4164.7; 29-JUN-2007 17:01:07; Bright; 33.0; 175; 39Del Per ; 3.01; 19400;occ; 66; 0;27864
 15; 4293.7; 29-JUN-2007 17:03:16; Bright; 45.0; 79; 26Bet Per ; 2.31; 13100;occ; 90; 0;27864
 16; 4967.5; 29-JUN-2007 17:14:30; Dark ; 51.5; 94; 92Alp Cet ; 2.53; 3100;occ; 103; 0;27864
 17; 5194.7; 29-JUN-2007 17:18:17; Dark ; 40.0; 165; 34Gam Eri ; 2.95; 3200;occ; 80; 0;27864
 18; 5701.9; 29-JUN-2007 17:26:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27864
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 21; 6769.4; 29-JUN-2007 17:44:32; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;27864

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2;	1165.9;	29-JUN-2007	17:51:45;	Dark	;	42.5;	40;	The Sco	;	1.86;	7100;occ;	85;	0;	27865
3;	1265.9;	29-JUN-2007	17:53:25;	Dark	;	39.5;	25;	35Lam Sco	;	1.62;	28000;occ;	79;	0;	27865
4;	1349.9;	29-JUN-2007	17:54:49;	Dark	;	45.5;	116;	19Del Sgr	;	2.70;	4100;occ;	91;	0;	27865
5;	1639.3;	29-JUN-2007	17:59:38;	Bright;		36.5;	86;	35Eta Oph	;	2.43;	10200;occ;	73;	0;	27865
6;	1744.2;	29-JUN-2007	18:01:23;	Bright;		35.5;	98;	13Zet Oph	;	2.57;	30000;occ;	71;	0;	27865
7;	1982.8;	29-JUN-2007	18:05:21;	Bright;		38.0;	126;	60Bet Oph	;	2.77;	4250;occ;	76;	0;	27865
8;	2123.4;	29-JUN-2007	18:07:42;	Bright;		36.5;	59;	55Alp Oph	;	2.08;	8900;occ;	73;	0;	27865
9;	2280.8;	29-JUN-2007	18:10:19;	Bright;		37.5;	127;	27Bet Her	;	2.78;	4700;occ;	75;	0;	27865
10;	2446.8;	29-JUN-2007	18:13:05;	Bright;		34.0;	133;	40Zet Her	;	2.81;	6000;occ;	68;	0;	27865
11;	2813.3;	29-JUN-2007	18:19:12;	Bright;		37.5;	130;	23Bet Dra	;	2.80;	5800;occ;	75;	0;	27865
12;	2951.7;	29-JUN-2007	18:21:30;	Bright;		36.0;	119;	14Eta Dra	;	2.73;	4700;occ;	72;	0;	27865
13;	3188.2;	29-JUN-2007	18:25:27;	Bright;		35.5;	60;	7Bet UMi	;	2.08;	3950;occ;	71;	0;	27865
14;	3445.6;	29-JUN-2007	18:29:44;	Bright;		35.5;	49;	1Alp UMi	;	1.99;	6300;occ;	71;	0;	27865
15;	4063.9;	29-JUN-2007	18:40:03;	Bright;		37.0;	160;	23Gam Per	;	2.93;	4700;occ;	74;	0;	27865
16;	4164.6;	29-JUN-2007	18:41:43;	Bright;		37.0;	175;	39Del Per	;	3.01;	19400;occ;	74;	0;	27865
17;	4293.7;	29-JUN-2007	18:43:52;	Bright;		36.0;	79;	26Bet Per	;	2.31;	13100;occ;	72;	0;	27865
18;	4967.8;	29-JUN-2007	18:55:06;	Dark	;	49.5;	94;	92Alp Cet	;	2.53;	3100;occ;	99;	0;	27865
19;	5194.8;	29-JUN-2007	18:58:53;	Dark	;	40.5;	165;	34Gam Eri	;	2.95;	3200;occ;	81;	0;	27865
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22;	6505.5;	29-JUN-2007	19:20:44;	Dark	;	42.5;	148;	Alp Tuc	;	2.88;	4100;occ;	85;	0;	27865
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2;	1166.2;	29-JUN-2007	19:32:21;	Dark	;	43.0;	40;	The Sco	;	1.86;	7100;occ;	86;	0;	27866
3;	1266.1;	29-JUN-2007	19:34:01;	Dark	;	39.5;	25;	35Lam Sco	;	1.62;	28000;occ;	79;	0;	27866
4;	1350.1;	29-JUN-2007	19:35:25;	Dark	;	49.0;	116;	19Del Sgr	;	2.70;	4100;occ;	98;	0;	27866
5;	1639.4;	29-JUN-2007	19:40:14;	Bright;		37.0;	86;	35Eta Oph	;	2.43;	10200;occ;	74;	0;	27866
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7;	1982.7;	29-JUN-2007	19:45:57;	Bright;		38.0;	126;	60Bet Oph	;	2.77;	4250;occ;	76;	0;	27866
8;	2123.5;	29-JUN-2007	19:48:18;	Bright;		38.0;	59;	55Alp Oph	;	2.08;	8900;occ;	76;	0;	27866
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10;	2446.9;	29-JUN-2007	19:53:41;	Bright;		34.5;	133;	40Zet Her	;	2.81;	6000;occ;	69;	0;	27866
11;	2813.1;	29-JUN-2007	19:59:48;	Bright;		37.5;	130;	23Bet Dra	;	2.80;	5800;occ;	75;	0;	27866
12;	2951.8;	29-JUN-2007	20:02:06;	Bright;		36.0;	119;	14Eta Dra	;	2.73;	4700;occ;	72;	0;	27866
13;	3188.4;	29-JUN-2007	20:06:03;	Bright;		35.5;	60;	7Bet UMi	;	2.08;	3950;occ;	71;	0;	27866
14;	3445.6;	29-JUN-2007	20:10:20;	Bright;		36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	27866
15;	4064.0;	29-JUN-2007	20:20:39;	Bright;		35.0;	160;	23Gam Per	;	2.93;	4700;occ;	70;	0;	27866
16;	4164.8;	29-JUN-2007	20:22:19;	Bright;		33.5;	175;	39Del Per	;	3.01;	19400;occ;	67;	0;	27866
17;	4294.0;	29-JUN-2007	20:24:29;	Bright;		44.0;	79;	26Bet Per	;	2.31;	13100;occ;	88;	0;	27866
18;	4968.0;	29-JUN-2007	20:35:43;	Dark	;	48.5;	94;	92Alp Cet	;	2.53;	3100;occ;	97;	0;	27866
19;	5194.9;	29-JUN-2007	20:39:30;	Dark	;	42.5;	165;	34Gam Eri	;	2.95;	3200;occ;	85;	0;	27866
20;	5702.9;	29-JUN-2007	20:47:58;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	27866
21;	6061.1;	29-JUN-2007	20:53:56;	Dark	;	51.0;	9;	Alp Eri	;	0.45;	24000;occ;	102;	0;	27866
22;	6506.0;	29-JUN-2007	21:01:21;	Dark	;	40.5;	148;	Alp Tuc	;	2.88;	4100;occ;	81;	0;	27866

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4;	471.2;	30-JUN-2007	00:22:34;	Dark	;	41.5;	148;	Alp Tuc	;	2.88;	4100;occ;	83;	0;	27869
5;	735.3;	30-JUN-2007	00:26:58;	Dark	;	40.0;	45;	Alp Pav	;	1.94;	26000;occ;	80;	0;	27869
6;	1059.0;	30-JUN-2007	00:32:21;	Dark	;	36.5;	147;	Alp Ara	;	2.88;	26000;occ;	73;	0;	27869
7;	1166.7;	30-JUN-2007	00:34:09;	Dark	;	41.5;	40;	The Sco	;	1.86;	7100;occ;	83;	0;	27869
8;	1266.6;	30-JUN-2007	00:35:49;	Dark	;	39.0;	25;	35Lam Sco	;	1.62;	28000;occ;	78;	0;	27869
9;	1350.7;	30-JUN-2007	00:37:13;	Dark	;	53.0;	116;	19Del Sgr	;	2.70;	4100;occ;	106;	0;	27869
10;	1639.8;	30-JUN-2007	00:42:02;	Bright;		35.5;	86;	35Eta Oph	;	2.43;	10200;occ;	71;	0;	27869
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