

GOMOS Daily Report 04-AUG-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	06AUG2007 09:47:28
Data source version	GOMOS/5.00
Start time of products	04-08-2007 (04AUG2007 00:00:00)
Stop time of products	05-08-2007 (05AUG2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	0

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

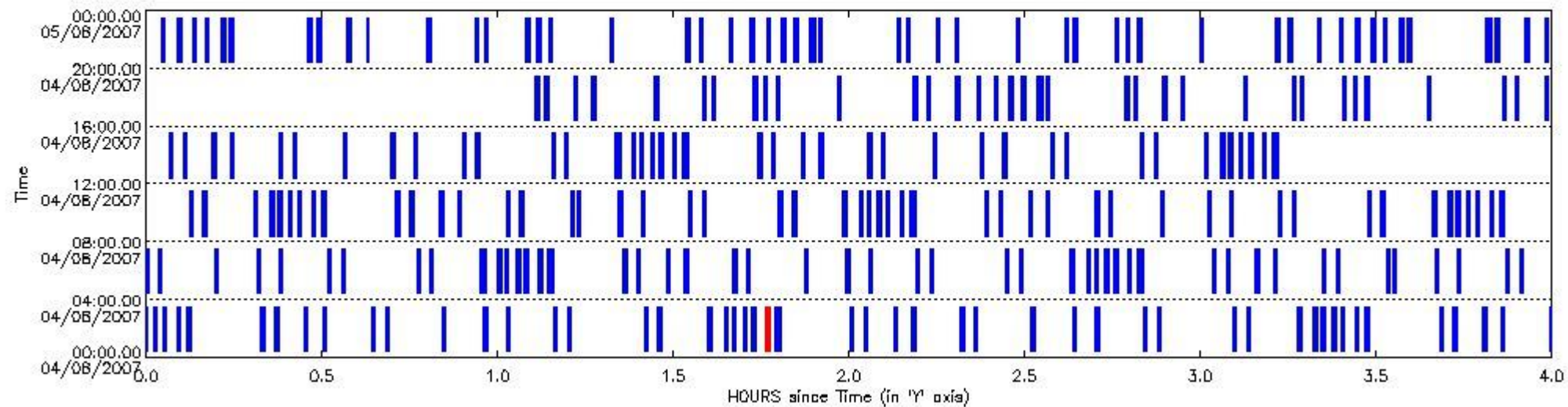
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

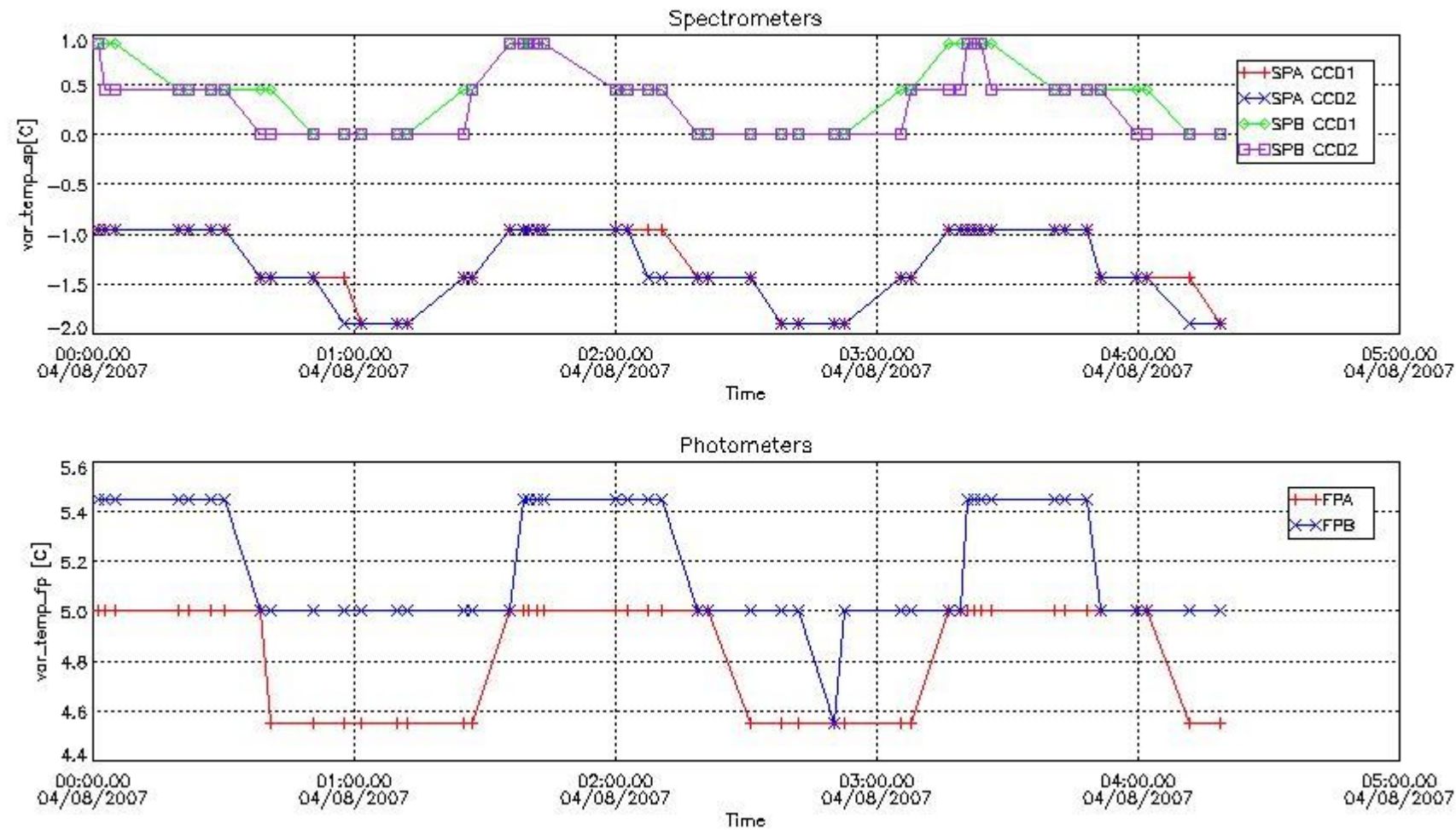
UTC start time	Star name	Star ID	Orbit
04-AUG-2007 01:45:37	1ZetCMa	177	28370

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_1PNPDE20070804_000114_000000272060_00259_28369_2866.N1	04-AUG-2007 00:01:14	Dark	27.000	1	9Alp CMa	-1.4400	11000.	54	28369	No
2	GOM_TRA_1PNPDE20070804_000244_000000422060_00259_28369_2986.N1	04-AUG-2007 00:02:44	Dark	41.500	101	11Alp Lep	2.5820	7000.0	83	28369	No
3	GOM_TRA_1PNPDE20070804_000510_000000362060_00259_28369_2987.N1	04-AUG-2007 00:05:10	Dark	36.000	177	1Zet CMa	3.0220	26000.	72	28369	No
4	GOM_TRA_1PNPDE20070804_001934_000000392060_00260_28370_2988.N1	04-AUG-2007 00:19:34	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	28370	No
5	GOM_TRA_1PNPDE20070804_002157_000000362060_00260_28370_2989.N1	04-AUG-2007 00:21:57	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	28370	No
6	GOM_TRA_1PNPDE20070804_002656_000000402060_00260_28370_2990.N1	04-AUG-2007 00:26:56	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	28370	No
7	GOM_TRA_1PNPDE20070804_003003_000000452060_00260_28370_2991.N1	04-AUG-2007 00:30:03	Straylight	45.000	45	Alp Pav	1.9400	26000.	90	28370	No
8	GOM_TRA_1PNPDE20070804_003822_000000392060_00260_28370_2992.N1	04-AUG-2007 00:38:22	Bright	39.000	103	38Zet Sgr	2.6000	9700.0	78	28370	No
9	GOM_TRA_1PNPDE20070804_004045_000000382060_00260_28370_2993.N1	04-AUG-2007 00:40:45	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	28370	No
10	GOM_TRA_1PNPDE20070804_005030_000000362060_00260_28370_2994.N1	04-AUG-2007 00:50:30	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	28370	No

11	GOM_TRA_1PNPDE20070804_005736_000000362060_00260_28370_2995.N1	04-AUG-2007 00:57:36	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	28370	No
12	GOM_TRA_1PNPDE20070804_010126_000000382060_00260_28370_2996.N1	04-AUG-2007 01:01:26	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	28370	No
13	GOM_TRA_1PNPDE20070804_010939_000000332060_00260_28370_2997.N1	04-AUG-2007 01:09:39	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	28370	No
14	GOM_TRA_1PNPDE20070804_011203_000000332060_00260_28370_2998.N1	04-AUG-2007 01:12:03	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	28370	No
15	GOM_TRA_1PNPDE20070804_012458_000000422060_00260_28370_2999.N1	04-AUG-2007 01:24:58	Bright	41.500	42	34Bet Aur	1.9000	10200.	83	28370	No
16	GOM_TRA_1PNPDE20070804_012713_000000422060_00260_28370_3000.N1	04-AUG-2007 01:27:13	Bright	42.000	107	37The Aur	2.6490	11000.	84	28370	No
17	GOM_TRA_1PNPDE20070804_013551_000000522060_00260_28370_3001.N1	04-AUG-2007 01:35:51	Dark	52.000	14	58Alp Ori	0.87000	3000.0	104	28370	No
18	GOM_TRA_1PNPDE20070804_013840_000000442060_00260_28370_3002.N1	04-AUG-2007 01:38:40	Dark	43.500	30	46Eps Ori	1.6940	30000.	87	28370	No
19	GOM_TRA_1PNPDE20070804_014001_000000422060_00260_28370_3146.N1	04-AUG-2007 01:40:01	Dark	41.500	125	44Iot Ori	2.7700	30000.	83	28370	No
20	GOM_TRA_1PNPDE20070804_014150_000000482060_00260_28370_3147.N1	04-AUG-2007 01:41:50	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	28370	No
21	GOM_TRA_1PNPDE20070804_014321_000000442060_00260_28370_3148.N1	04-AUG-2007 01:43:21	Dark	43.500	101	11Alp Lep	2.5820	7000.0	87	28370	No
22	GOM_TRA_1PNPDE20070804_020010_000000392060_00261_28371_3149.N1	04-AUG-2007 02:00:10	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	28371	No
23	GOM_TRA_1PNPDE20070804_020234_000000362060_00261_28371_3150.N1	04-AUG-2007 02:02:34	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	28371	No
24	GOM_TRA_1PNPDE20070804_020732_000000452060_00261_28371_3151.N1	04-AUG-2007 02:07:32	Straylight	45.000	148	Alp Tuc	2.8780	4100.0	90	28371	No
25	GOM_TRA_1PNPDE20070804_021039_000000392060_00261_28371_3152.N1	04-AUG-2007 02:10:39	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	28371	No
26	GOM_TRA_1PNPDE20070804_021858_000000492060_00261_28371_3153.N1	04-AUG-2007 02:18:58	Bright	48.500	103	38Zet Sgr	2.6000	9700.0	97	28371	No
27	GOM_TRA_1PNPDE20070804_022121_000000382060_00261_28371_3154.N1	04-AUG-2007 02:21:21	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	28371	No
28	GOM_TRA_1PNPDE20070804_023106_000000352060_00261_28371_3155.N1	04-AUG-2007 02:31:06	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28371	No
29	GOM_TRA_1PNPDE20070804_023812_000000382060_00261_28371_3156.N1	04-AUG-2007 02:38:12	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	28371	No
30	GOM_TRA_1PNPDE20070804_024202_000000382060_00261_28371_3157.N1	04-AUG-2007 02:42:02	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	28371	No
31	GOM_TRA_1PNPDE20070804_025015_000000342060_00261_28371_3158.N1	04-AUG-2007 02:50:15	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	28371	No
32	GOM_TRA_1PNPDE20070804_025239_000000352060_00261_28371_3159.N1	04-AUG-2007 02:52:39	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	28371	No
33	GOM_TRA_1PNPDE20070804_030534_000000362060_00261_28371_3304.N1	04-AUG-2007 03:05:34	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	28371	No
34	GOM_TRA_1PNPDE20070804_030750_000000362060_00261_28371_3305.N1	04-AUG-2007 03:07:50	Bright	36.000	107	37The Aur	2.6490	11000.	72	28371	No
35	GOM_TRA_1PNPDE20070804_031628_000000532060_00261_28371_3306.N1	04-AUG-2007 03:16:28	Dark	53.000	14	58Alp Ori	0.87000	3000.0	106	28371	No
36	GOM_TRA_1PNPDE20070804_031916_000000462060_00261_28371_3307.N1	04-AUG-2007 03:19:16	Dark	45.500	30	46Eps Ori	1.6940	30000.	91	28371	No
37	GOM_TRA_1PNPDE20070804_032037_000000422060_00261_28371_3308.N1	04-AUG-2007 03:20:37	Dark	41.500	125	44Iot Ori	2.7700	30000.	83	28371	No
38	GOM_TRA_1PNPDE20070804_032226_000000432060_00261_28371_3309.N1	04-AUG-2007 03:22:26	Dark	42.500	1	9Alp CMa	-1.4400	11000.	85	28371	No
39	GOM_TRA_1PNPDE20070804_032357_000000422060_00261_28371_3310.N1	04-AUG-2007 03:23:57	Dark	41.500	101	11Alp Lep	2.5820	7000.0	83	28371	No
40	GOM_TRA_1PNPDE20070804_032622_000000372060_00261_28371_3311.N1	04-AUG-2007 03:26:22	Dark	36.500	177	1Zet CMa	3.0220	26000.	73	28371	No
41	GOM_TRA_1PNPDE20070804_034047_000000402060_00262_28372_3312.N1	04-AUG-2007 03:40:47	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	28372	No
42	GOM_TRA_1PNPDE20070804_034310_000000382060_00262_28372_3313.N1	04-AUG-2007 03:43:10	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	28372	No
43	GOM_TRA_1PNPDE20070804_034809_000000422060_00262_28372_3314.N1	04-AUG-2007 03:48:09	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	28372	No
44	GOM_TRA_1PNPDE20070804_035115_000000402060_00262_28372_3315.N1	04-AUG-2007 03:51:15	Straylight	39.500	45	Alp Pav	1.9400	26000.	79	28372	No
45	GOM_TRA_1PNPDE20070804_035934_000000492060_00262_28372_3316.N1	04-AUG-2007 03:59:34	Bright	49.000	103	38Zet Sgr	2.6000	9700.0	98	28372	No
46	GOM_TRA_1PNPDE20070804_040157_000000372060_00262_28372_3317.N1	04-AUG-2007 04:01:57	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	28372	No
47	GOM_TRA_1PNPDE20070804_041142_000000352060_00262_28372_3318.N1	04-AUG-2007 04:11:42	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28372	No
48	GOM_TRA_1PNPDE20070804_041848_000000352060_00262_28372_3319.N1	04-AUG-2007 04:18:48	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	28372	No

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



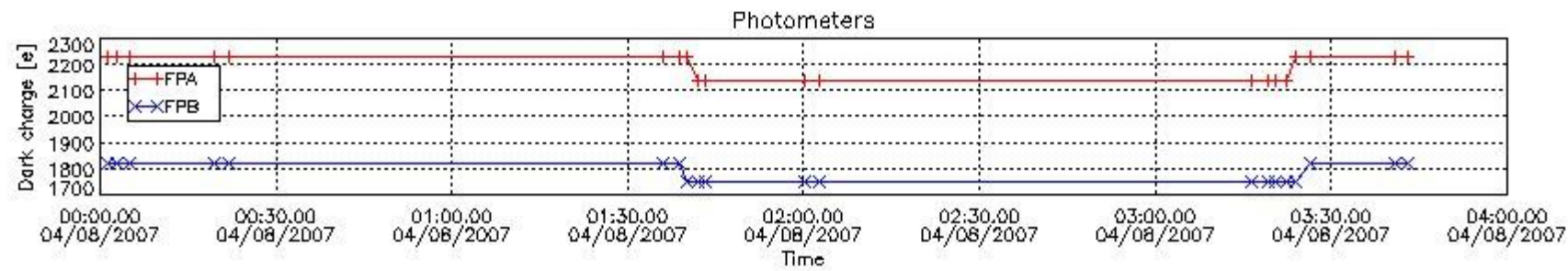
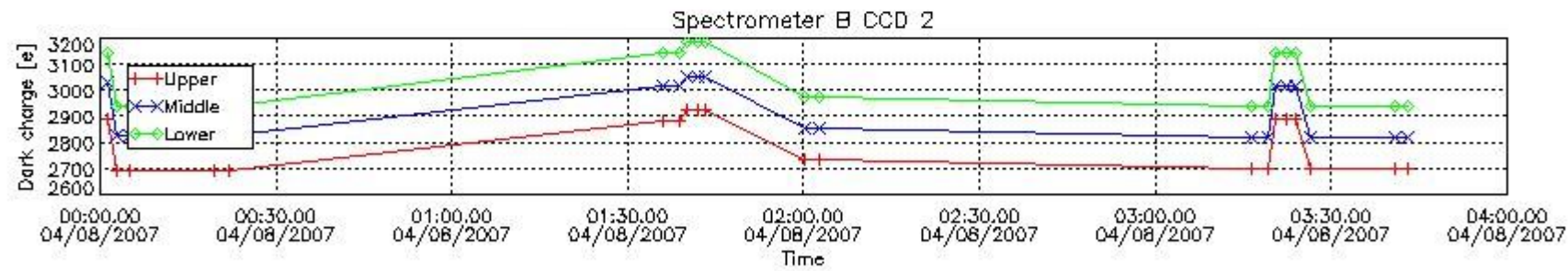
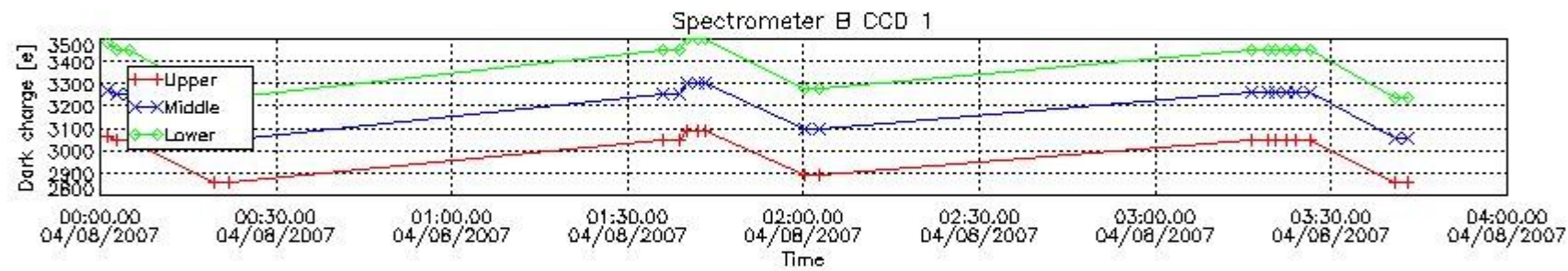
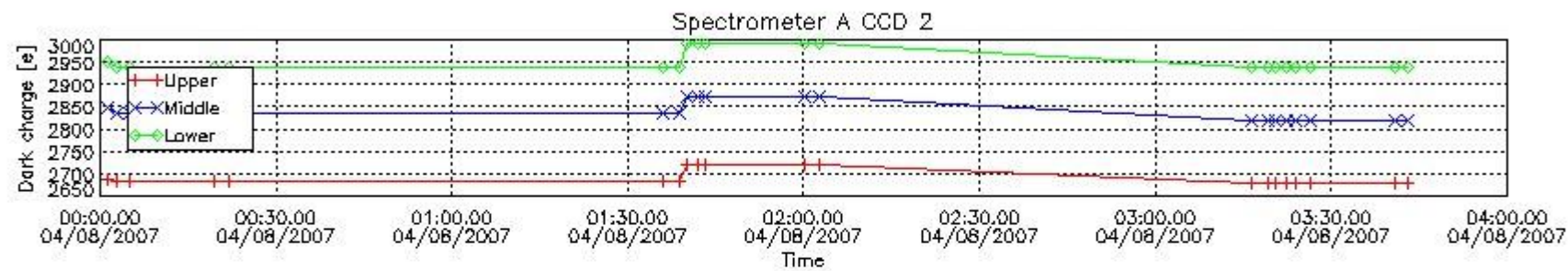
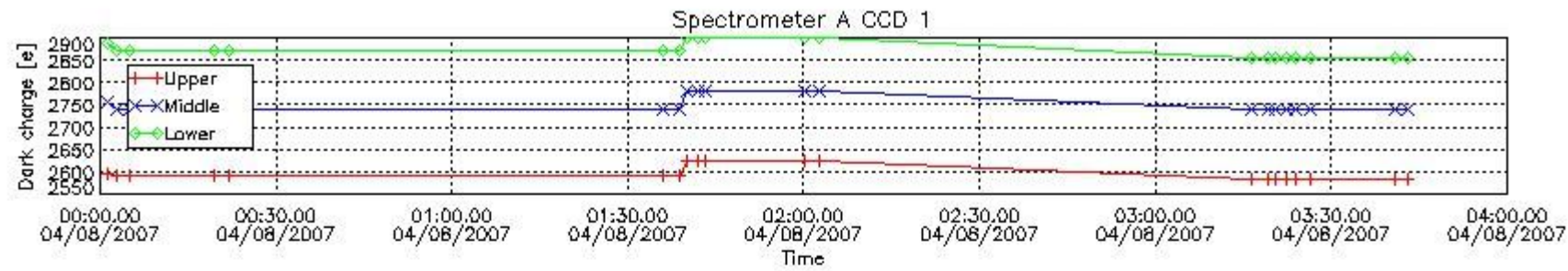
4. Overview of dark signal processing per product

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



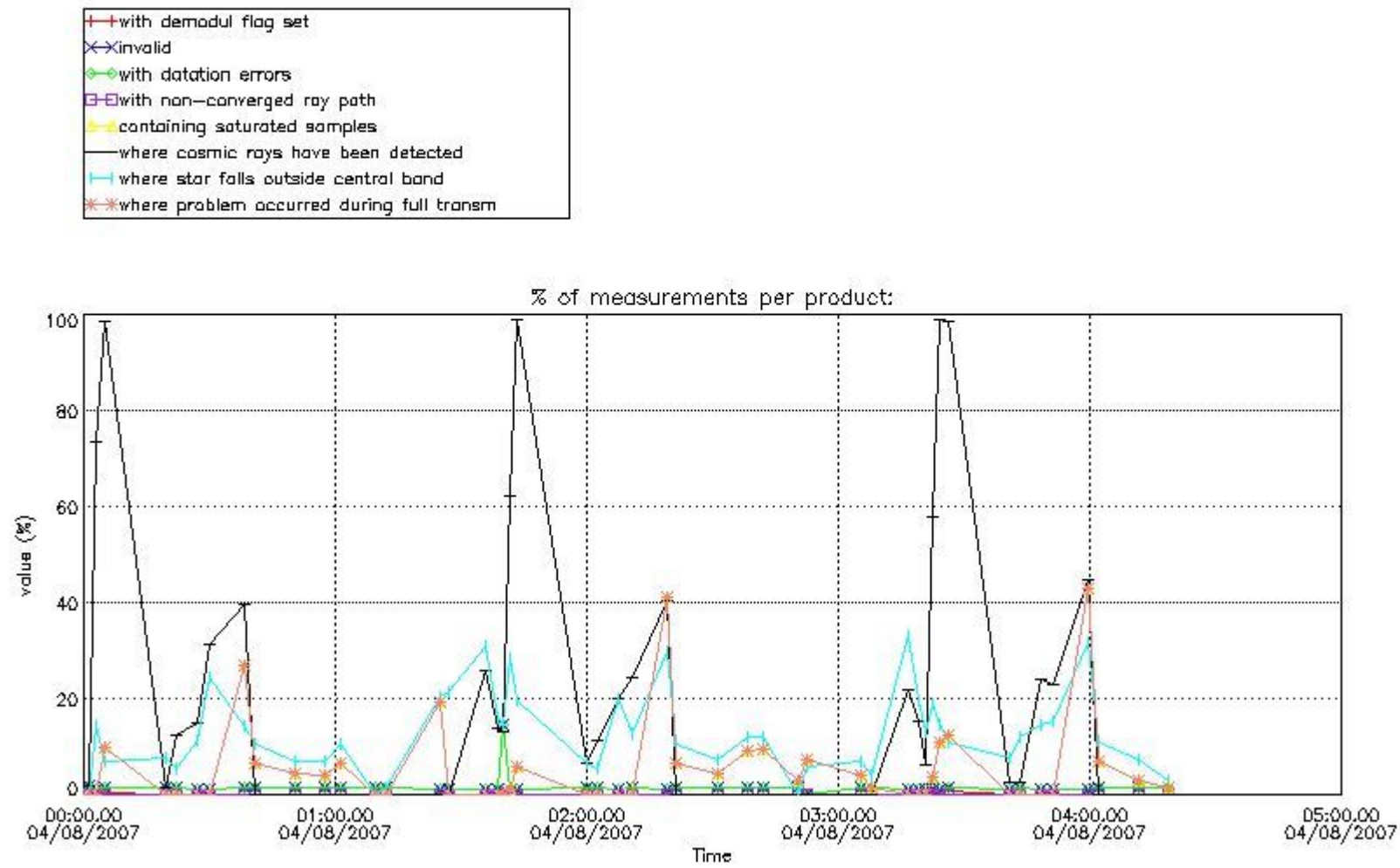
5. Demodulation flag and quality information monitoring

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.

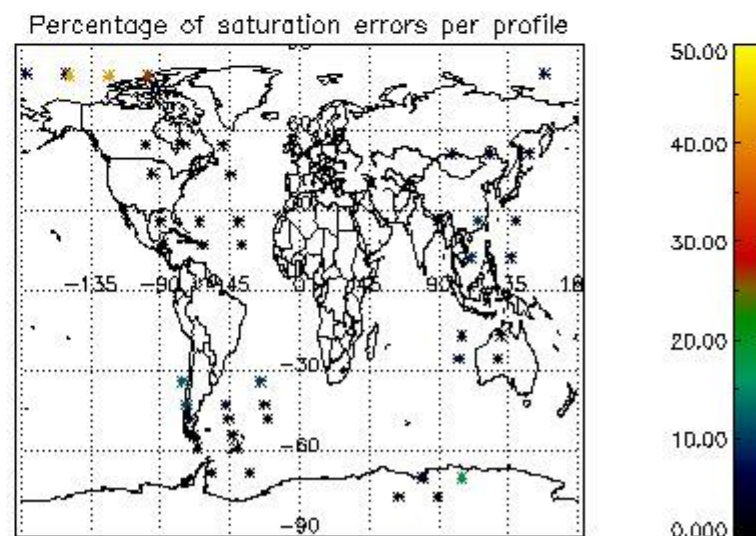
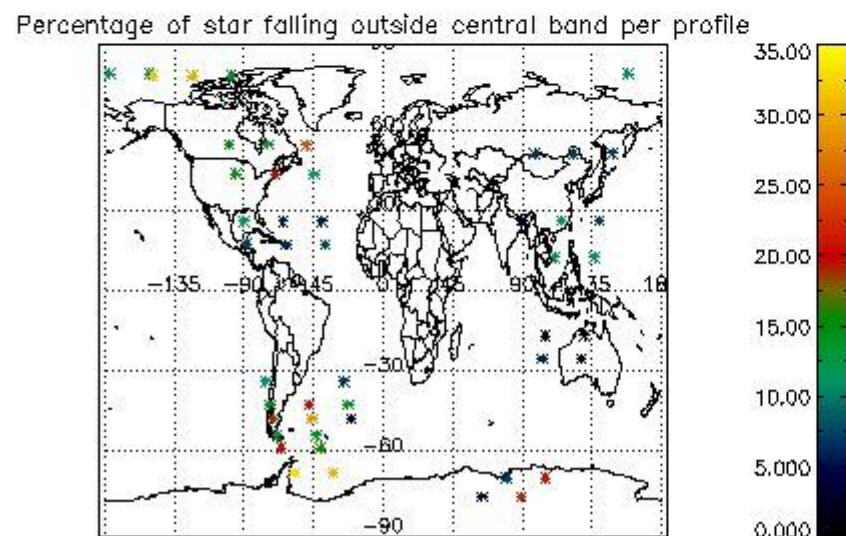
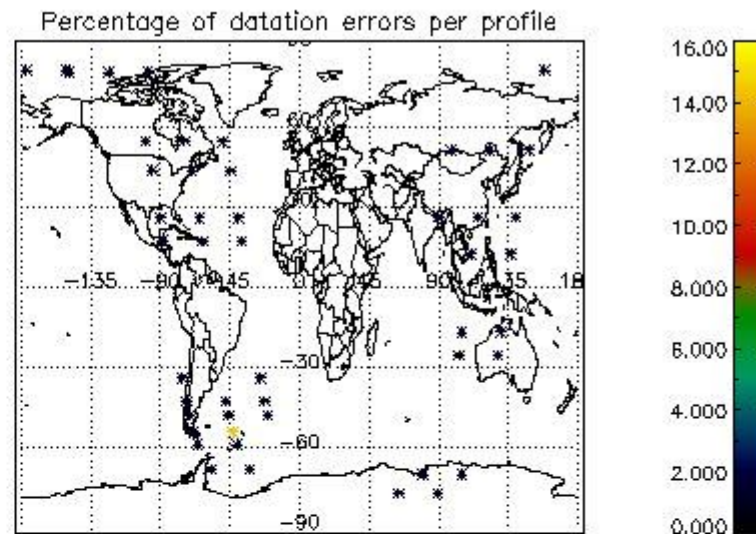
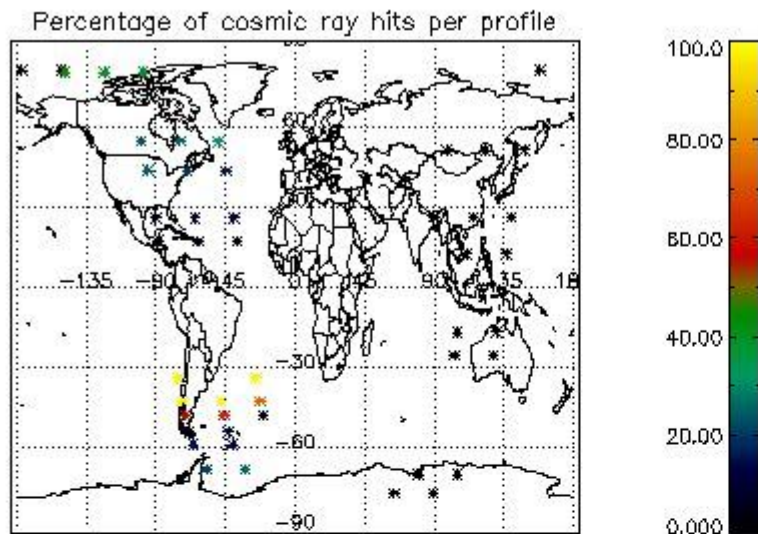
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.9167 %
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)



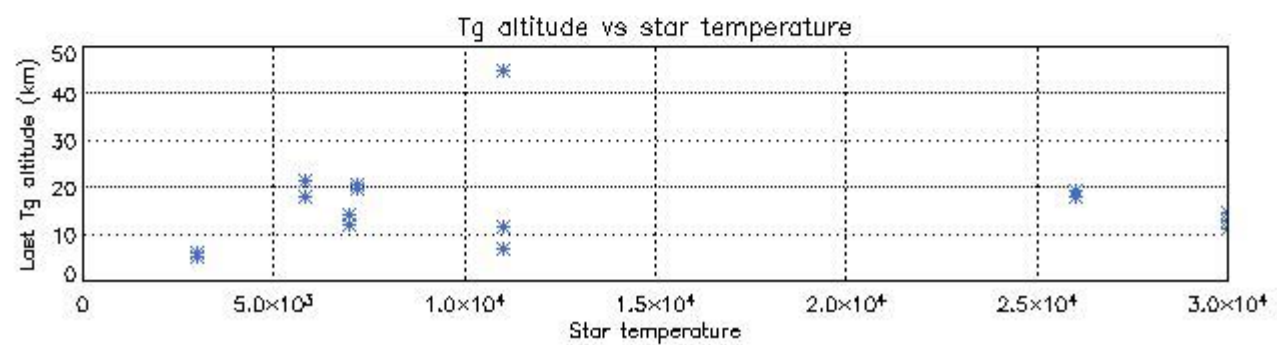
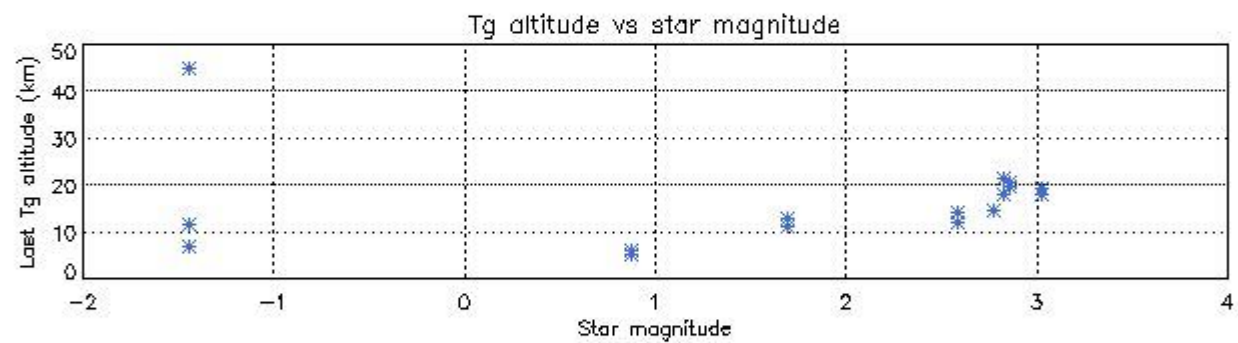
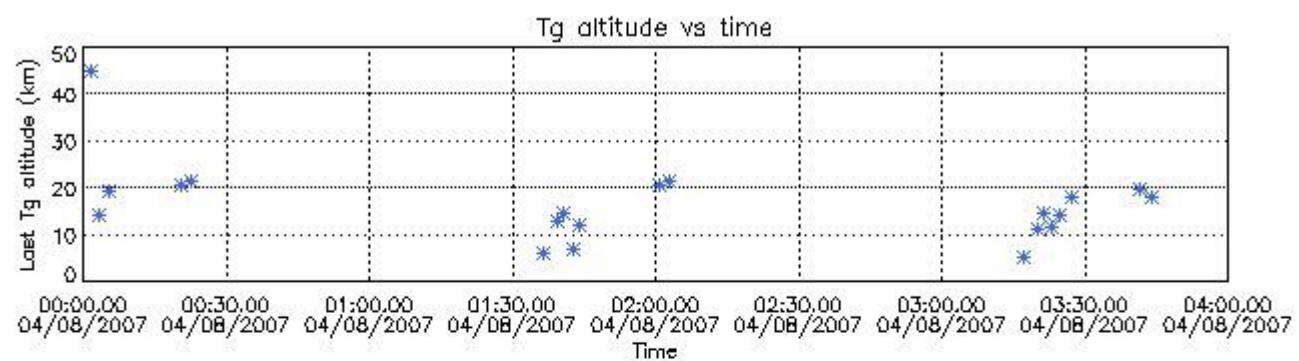
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.342	18.830	NaN
St. deviation:	8.4141	5.9442	NaN
Maximum:	44.915	29.287	NaN
Minimum:	4.9313	5.5302	NaN
Number of data:	20.000	22.000	NaN

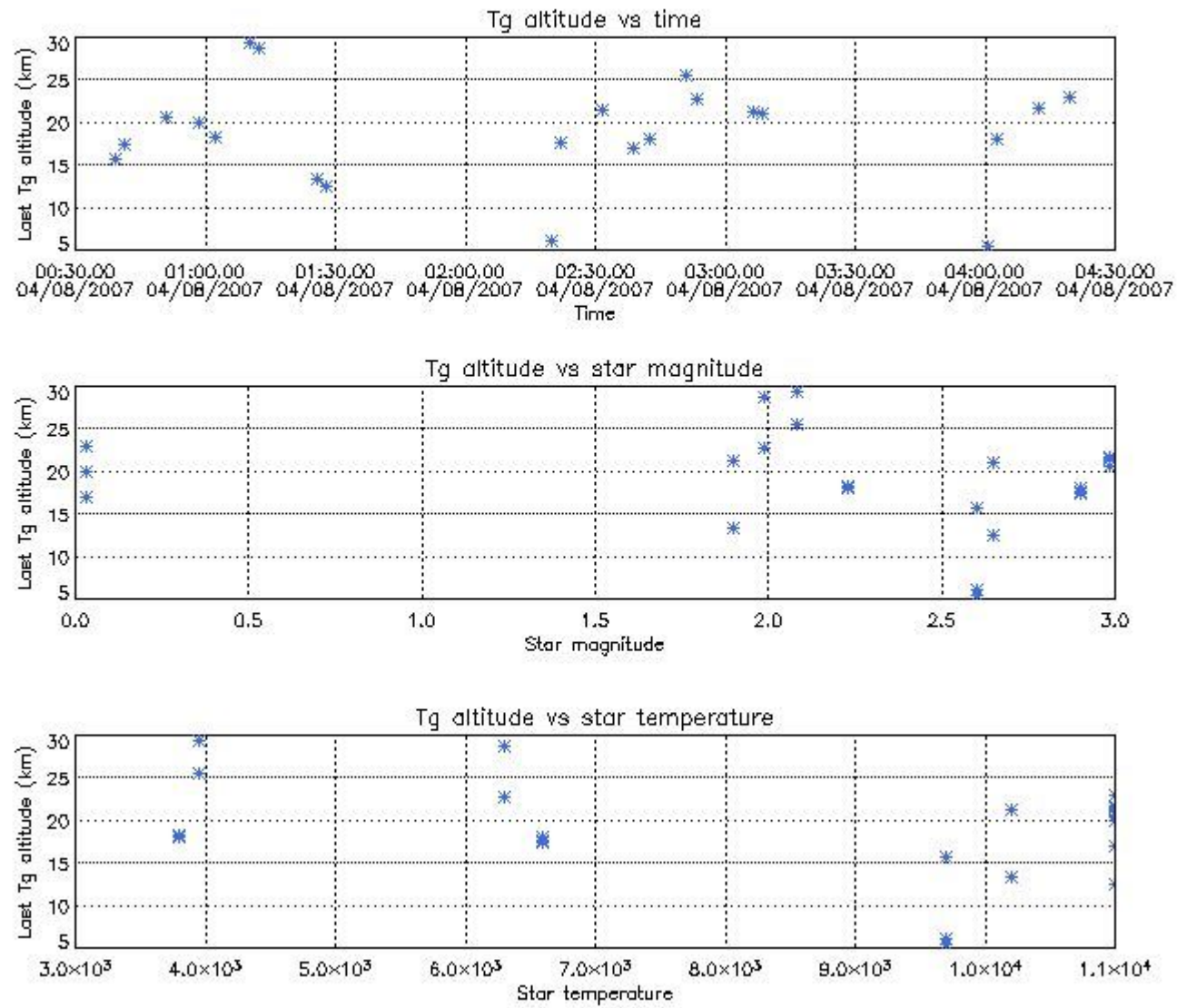
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

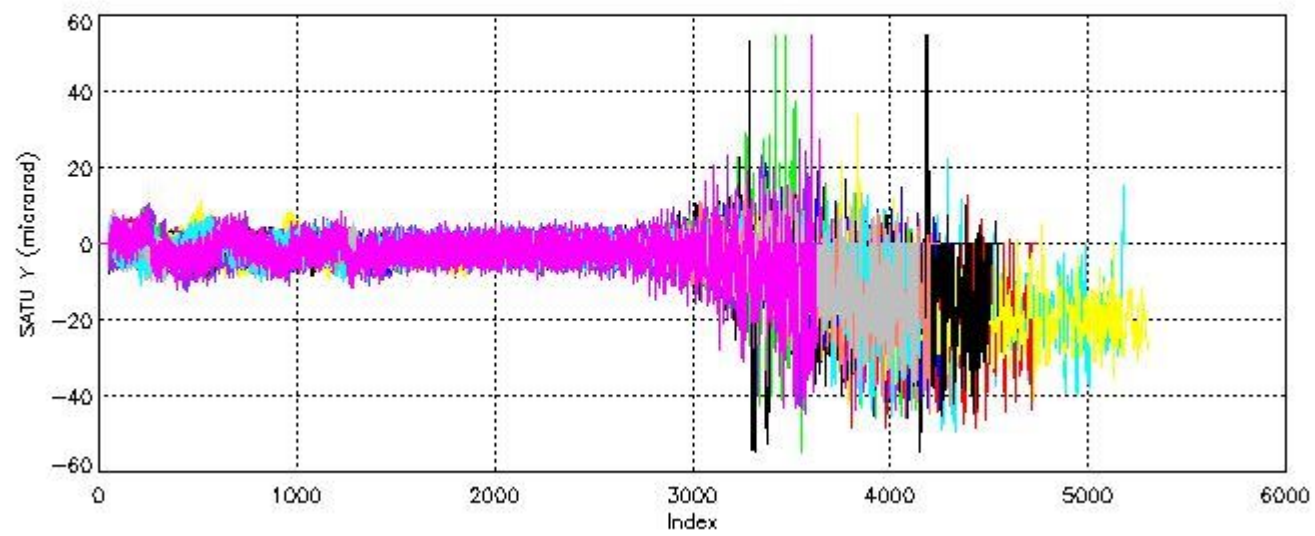
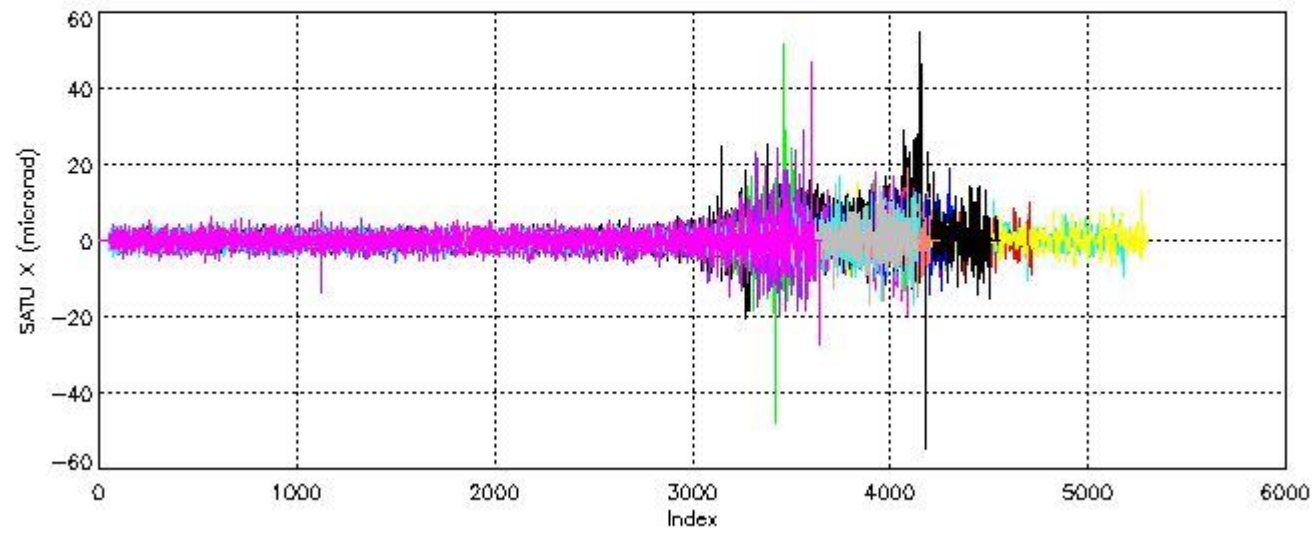


7. Star Acquisition and Tracking Unit (SATU)

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:	0.0025274	-1.2265	0.013257	-1.0191
St. deviation:	0.80873	2.8327	0.80920	2.8442
Maximum:	6.2000	11.200	5.6000	10.600
Minimum:	-6.0000	-12.800	-5.6000	-11.700

Number of data:	17700.	17700.	18100.	18100.
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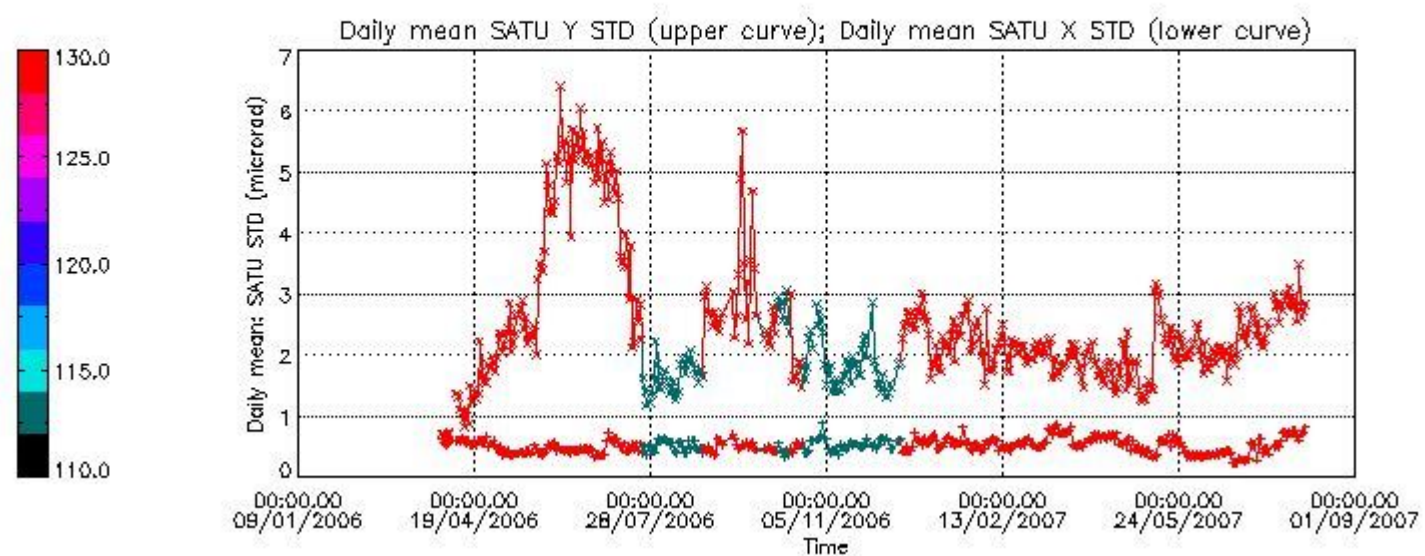
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

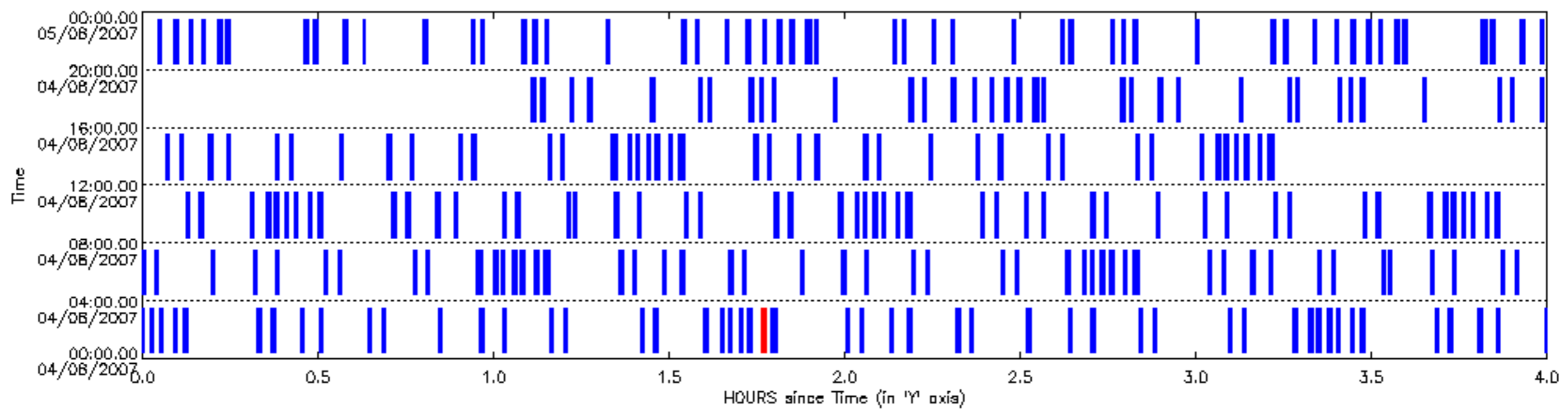
Lower curve: STD of SATU X axis

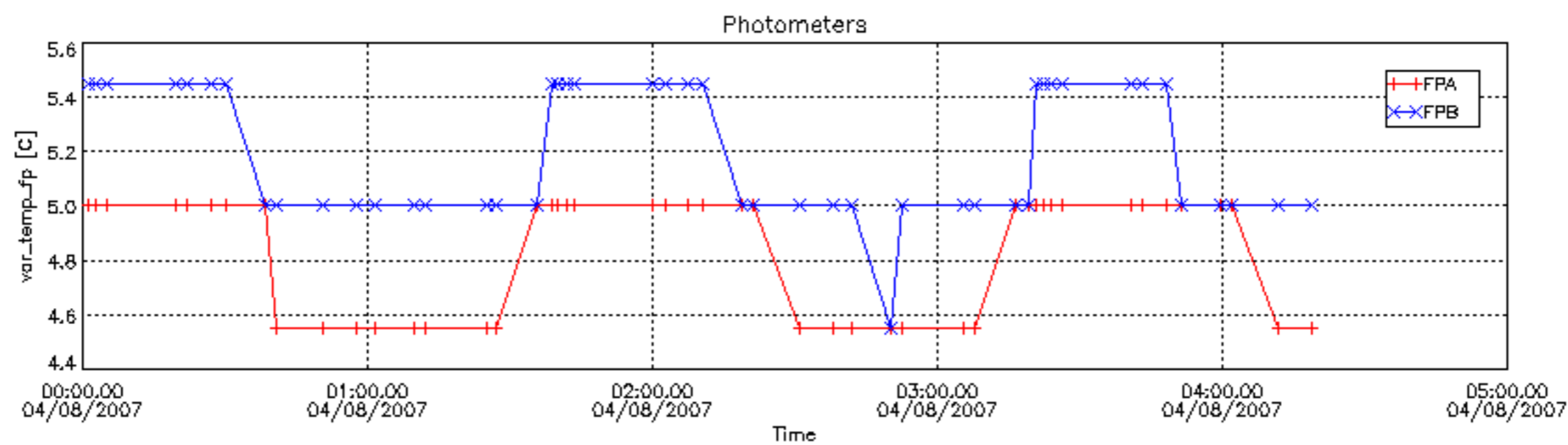
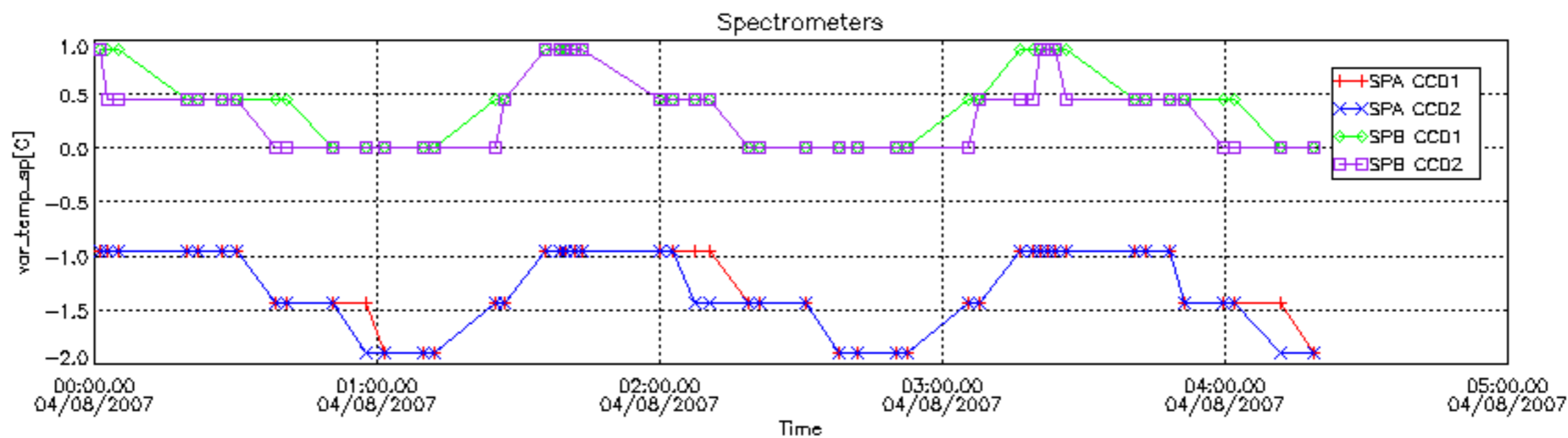


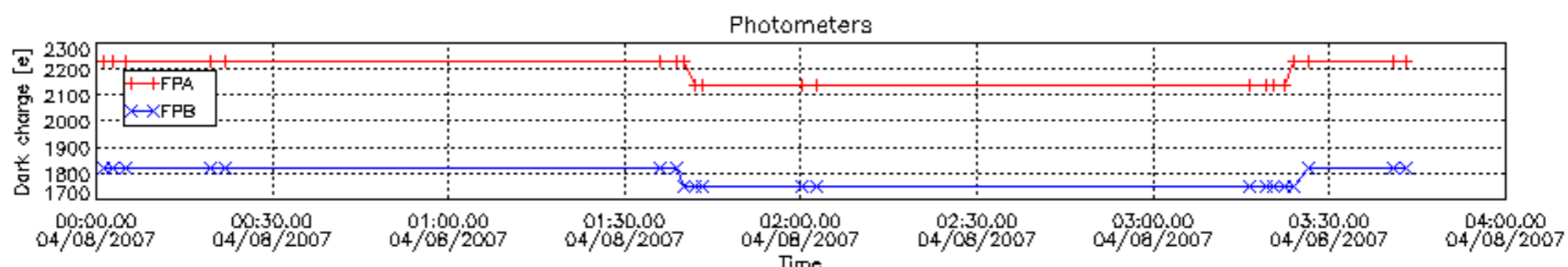
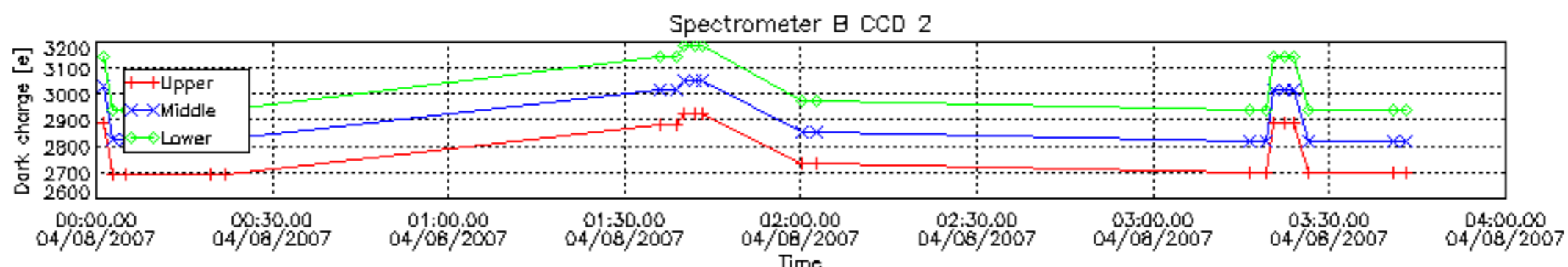
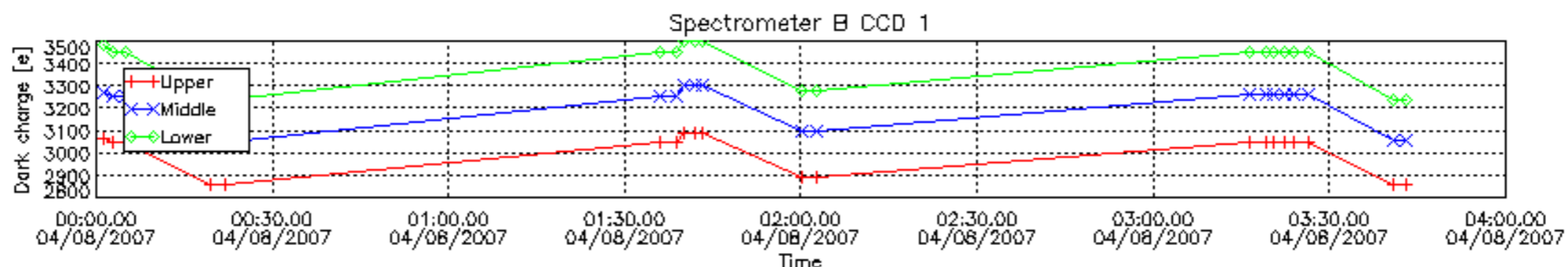
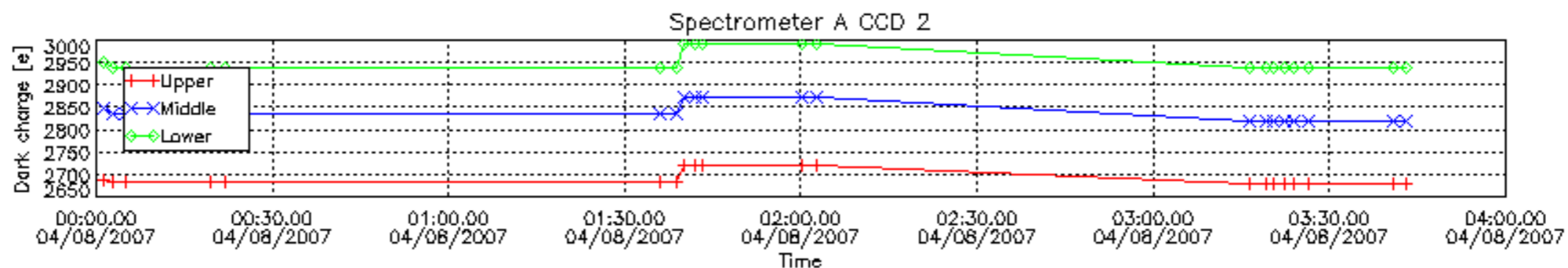
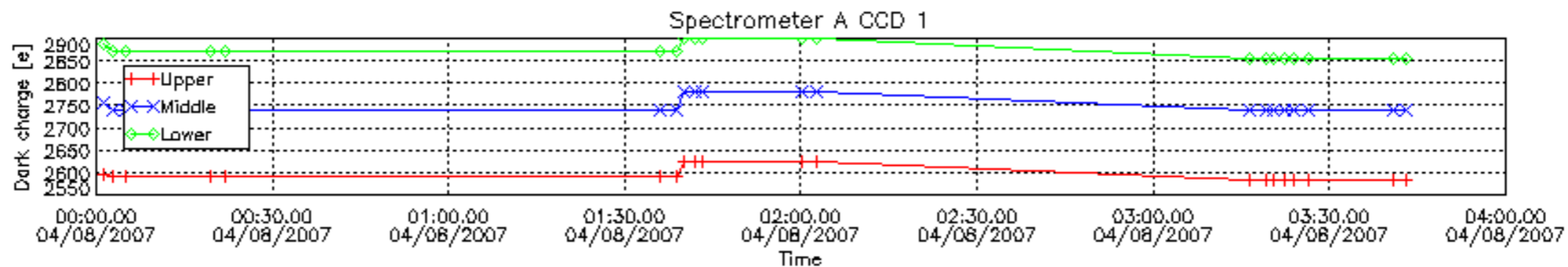
8. Auxiliary Data Files used for the production reported in section 2.4

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.

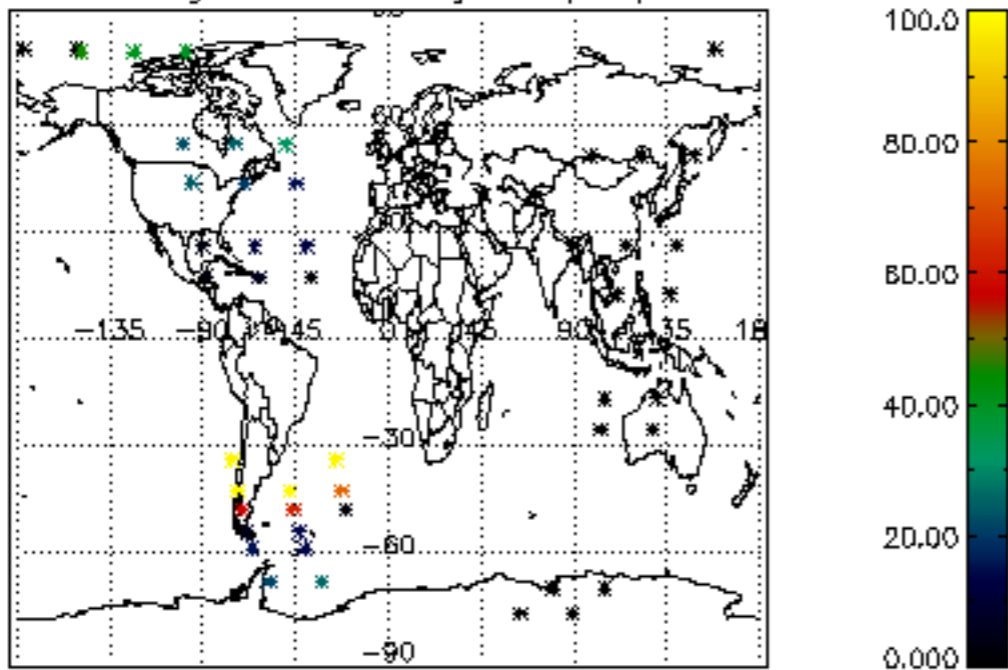
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	04-AUG-2007 00:01:14
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070803_145735_20070802_000000_20100101_000000	1	04-AUG-2007 00:01:14
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	04-AUG-2007 00:01:14
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-AUG-2007 00:01:14
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	04-AUG-2007 00:01:14
ECMWF_FILE	AUX_ECF_AXNECM20070803_062114_20070803_210000_20070804_090000	1	04-AUG-2007 00:01:14
ECMWF_FILE	AUX_ECF_AXNECM20070803_182114_20070804_030000_20070804_150000	33	04-AUG-2007 03:05:34
OPTIONAL_ECMWF_FILE	MISSING	1	04-AUG-2007 00:01:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070803_210359_000041442060_00258_28368_3895.N1	1	04-AUG-2007 00:01:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070803_221822_000057382060_00258_28368_3896.N1	2	04-AUG-2007 00:02:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070803_235919_000057382060_00259_28369_3897.N1	19	04-AUG-2007 01:40:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070804_013457_000044632060_00260_28370_3898.N1	33	04-AUG-2007 03:05:34



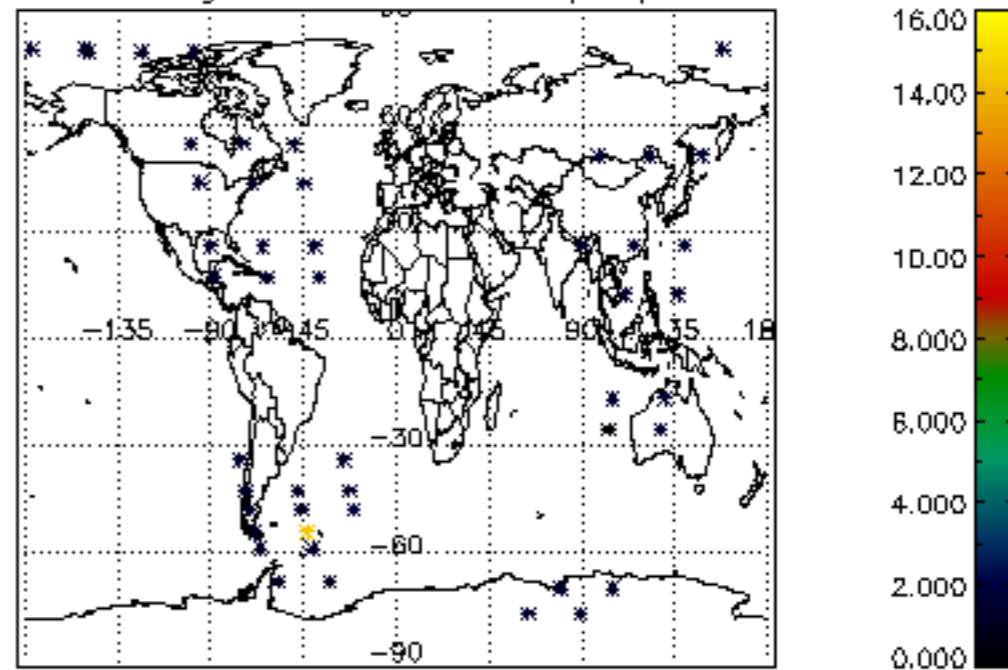




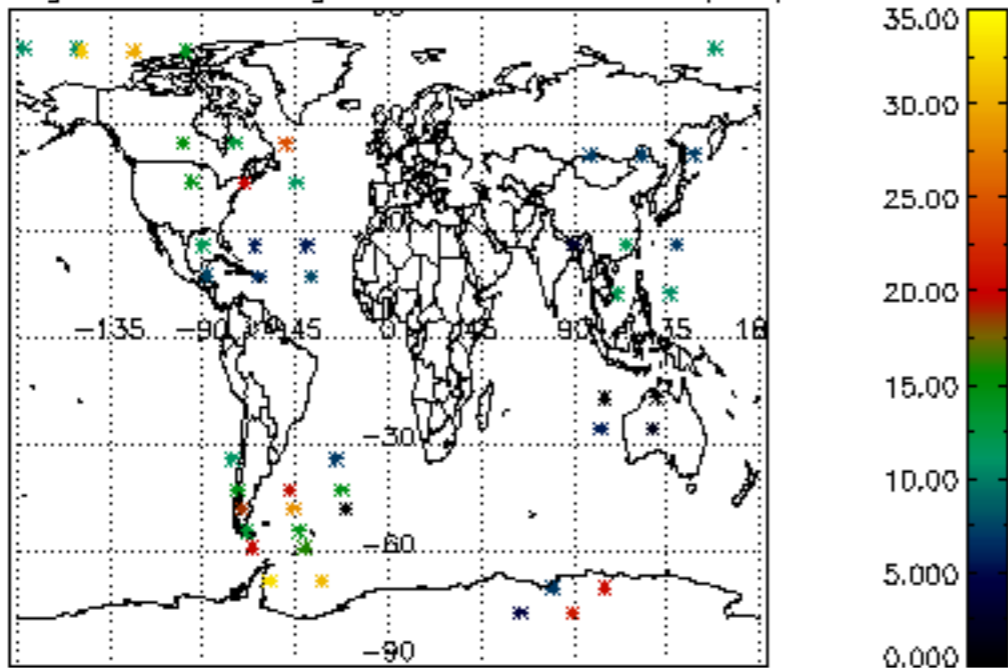
Percentage of cosmic ray hits per profile



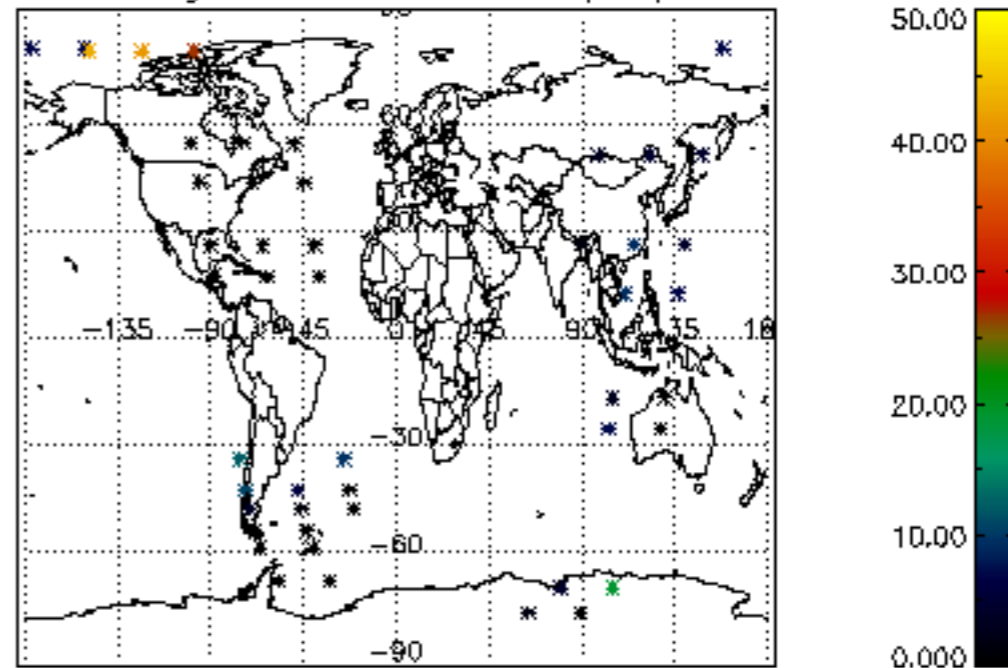
Percentage of datation errors per profile



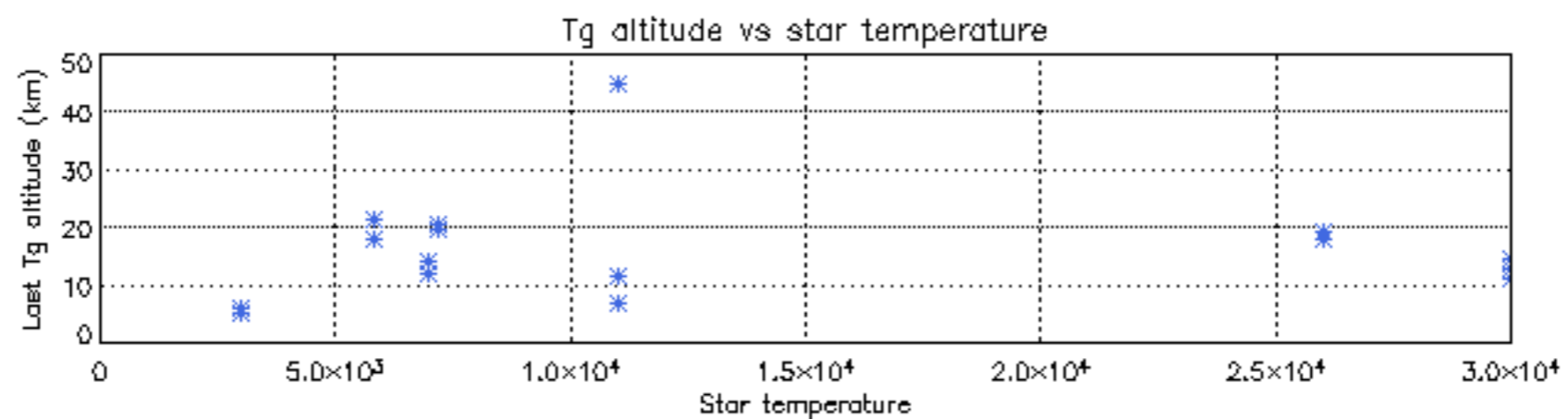
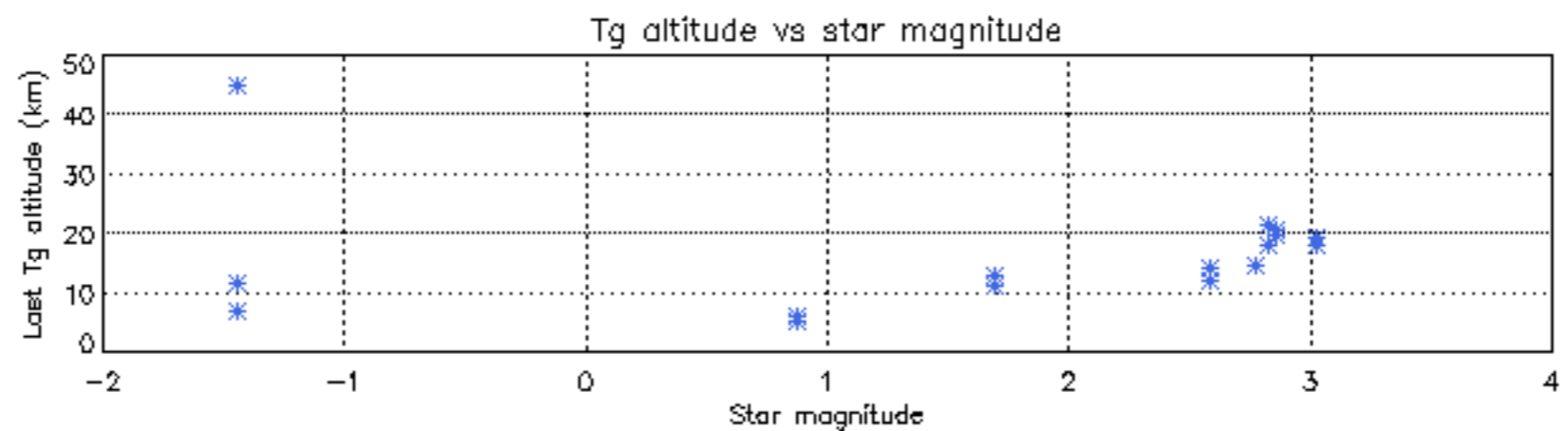
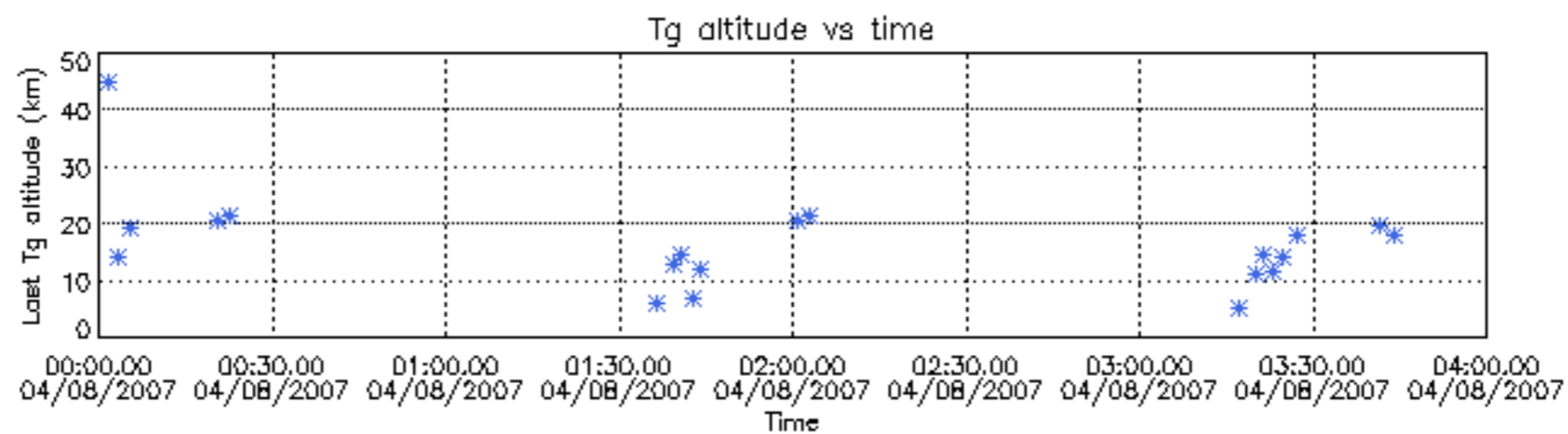
Percentage of star falling outside central band per profile



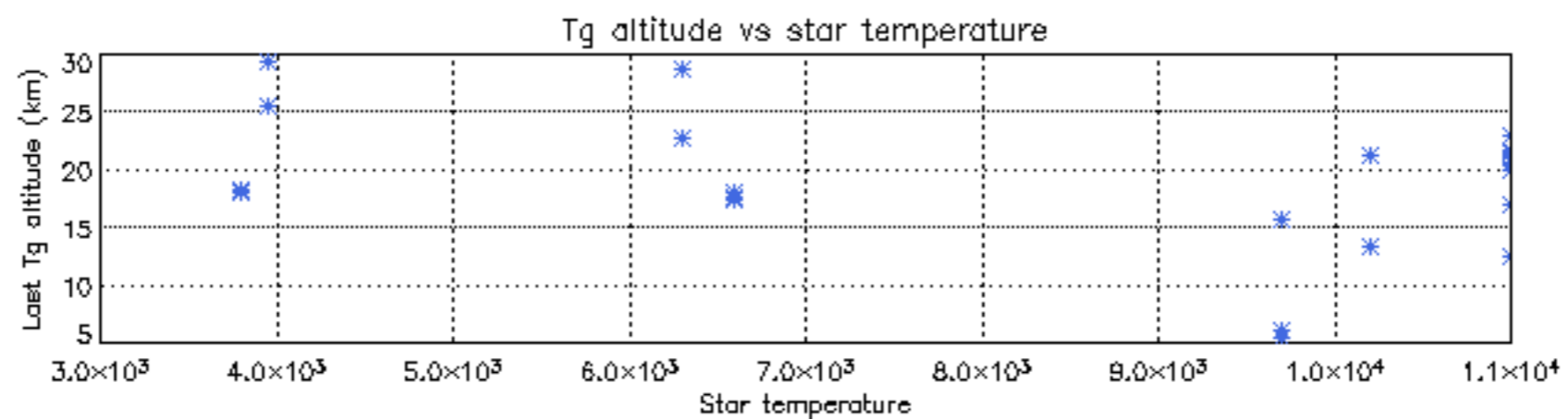
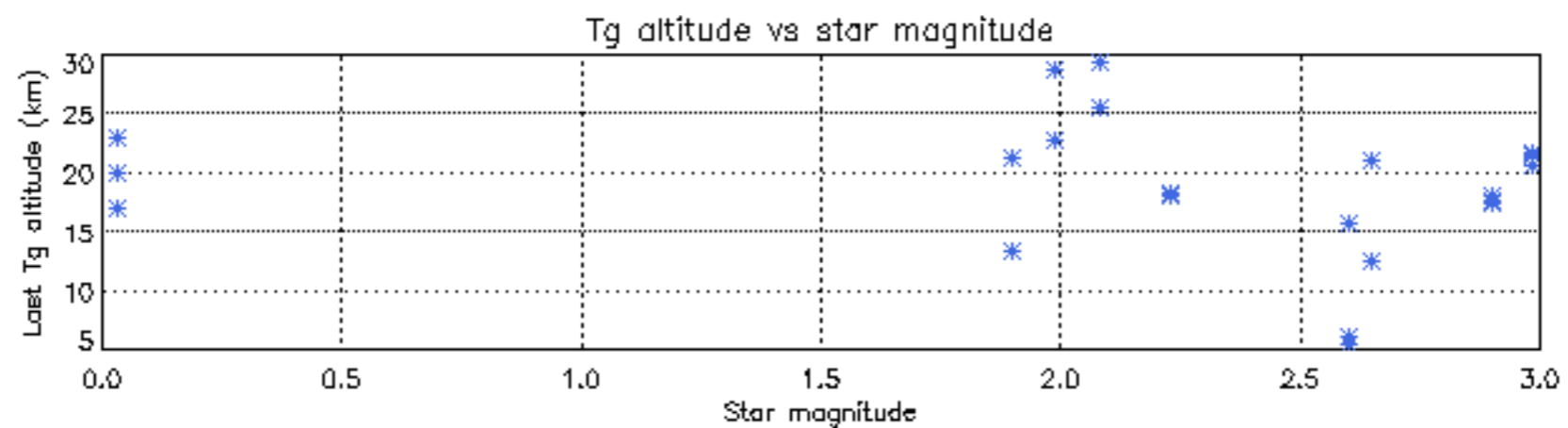
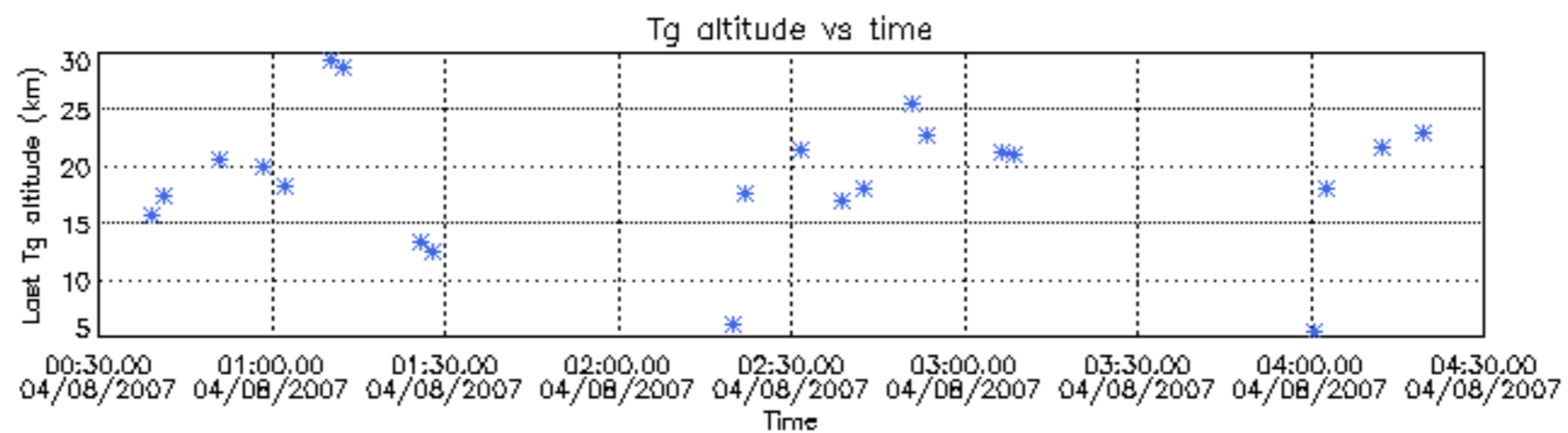
Percentage of saturation errors per profile

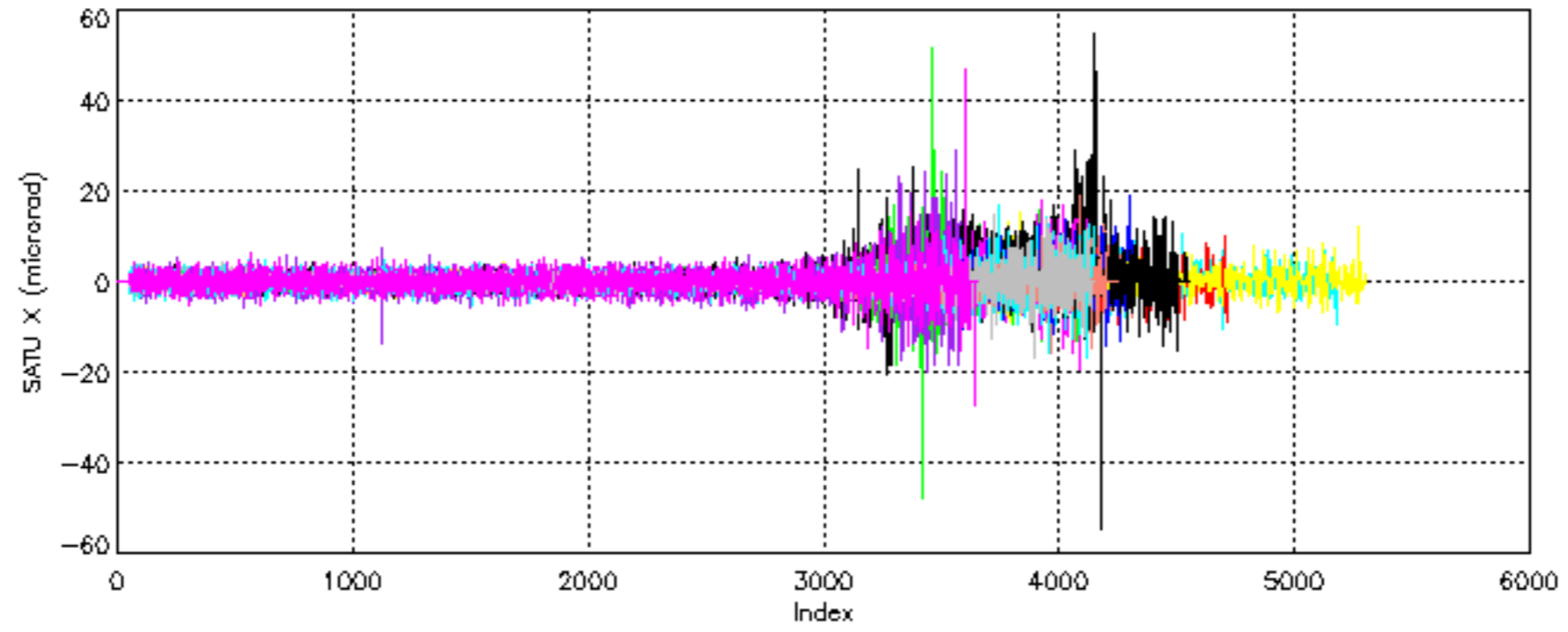


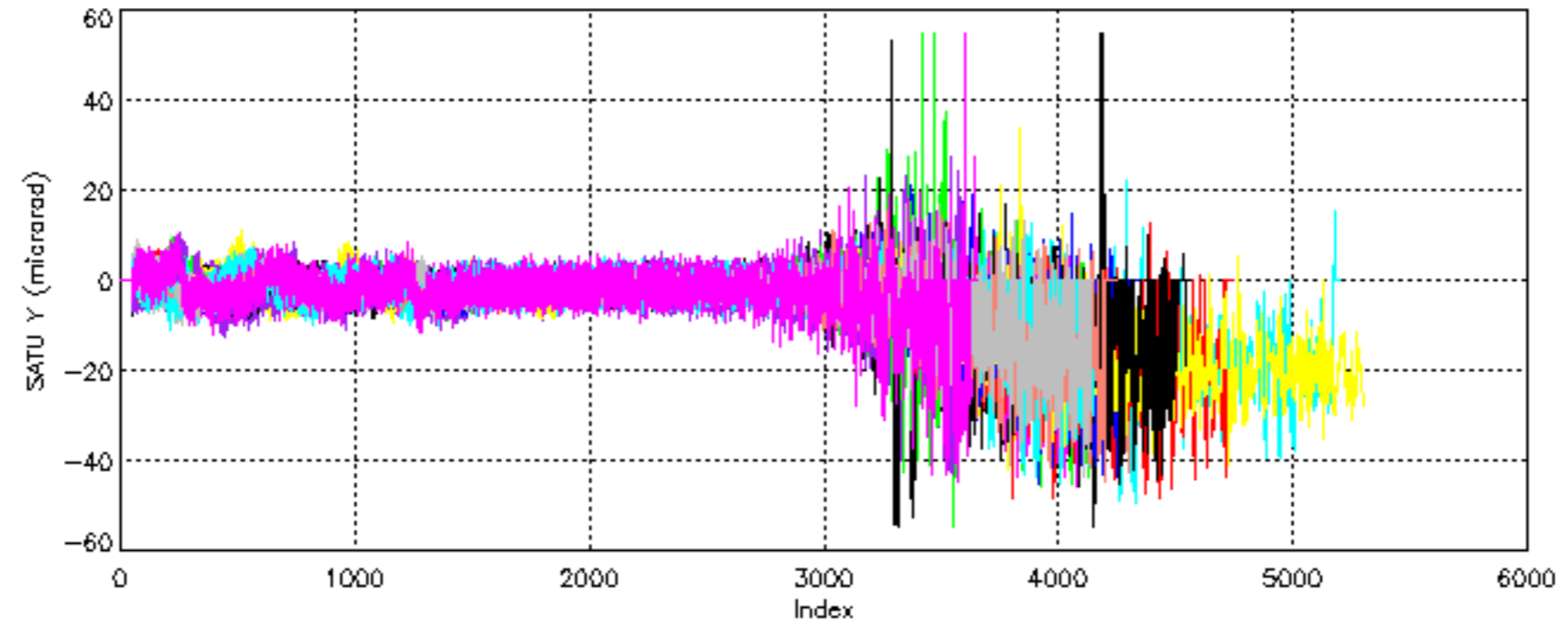
Tangent altitude at which the star is lost

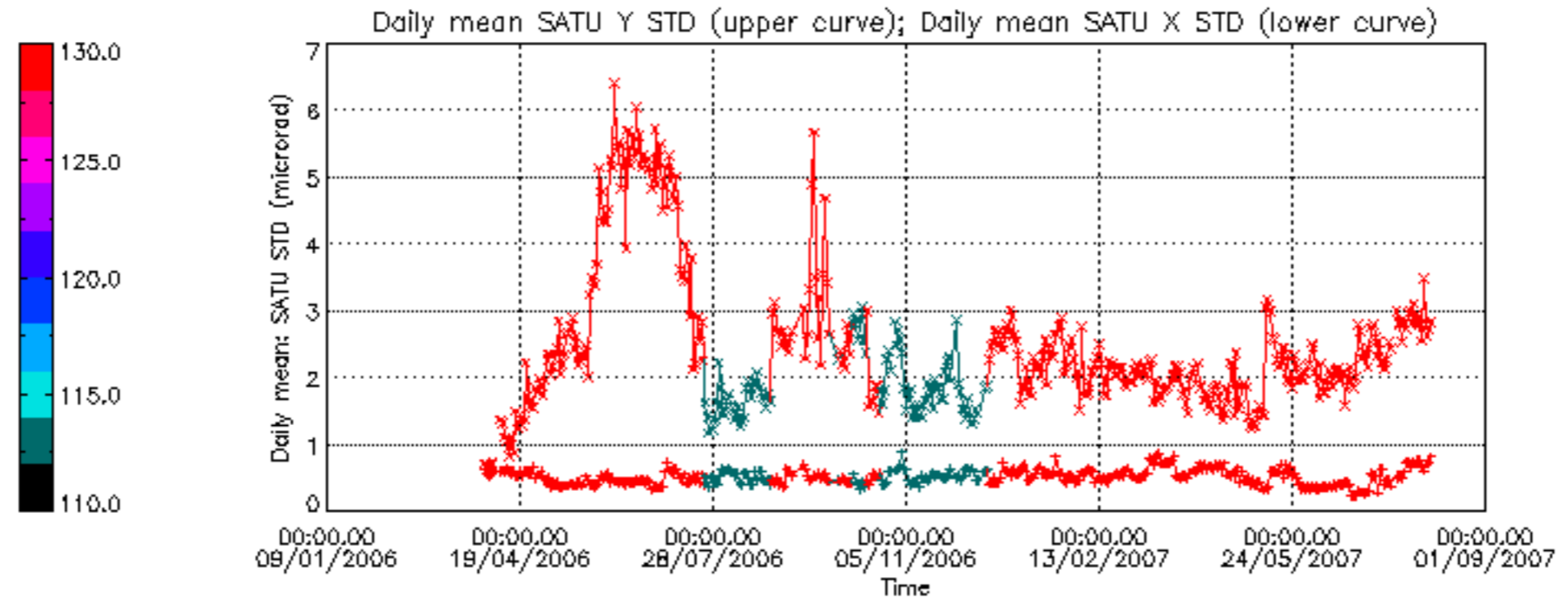


Tangent altitude at which the star is lost









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1; -781.4; 01-AUG-2007 01:36:32; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;28327
 2; -680.8; 01-AUG-2007 01:38:13; Dark ; 42.0; 139; 9Bet Lep ; 2.83; 5600;occ; 84; 0;28327
 3; -483.6; 01-AUG-2007 01:41:30; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28327
 4; 267.4; 01-AUG-2007 01:54:01; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;28328
 5; 424.4; 01-AUG-2007 01:56:38; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;28328
 6; 715.8; 01-AUG-2007 02:01:29; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;28328
 7; 909.8; 01-AUG-2007 02:04:43; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;28328
 8; 1412.3; 01-AUG-2007 02:13:06; Dark ; 52.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 104; 0;28328
 9; 1555.1; 01-AUG-2007 02:15:29; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;28328
 10; 2144.7; 01-AUG-2007 02:25:18; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;28328
 11; 2569.6; 01-AUG-2007 02:32:23; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;28328
 12; 2796.3; 01-AUG-2007 02:36:10; Bright; 35.5; 69; 33Gam Dra ; 2.23; 3800;occ; 71; 0;28328
 13; 3035.0; 01-AUG-2007 02:40:09; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;28328
 14; 3284.8; 01-AUG-2007 02:44:18; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;28328
 15; 3441.1; 01-AUG-2007 02:46:55; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;28328

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1; -1823.8; 01-AUG-2007 02:59:46; Bright; 33.5; 42; 34Bet Aur ; 1.90; 10200;occ; 67; 0;28328
 2; -1690.0; 01-AUG-2007 03:02:00; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28328
 3; -1397.3; 01-AUG-2007 03:06:52; Dark ; 40.5; 176; 23Zet Tau ; 3.02; 22000;occ; 81; 0;28328
 4; -1178.1; 01-AUG-2007 03:10:31; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;28328
 5; -1013.2; 01-AUG-2007 03:13:16; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;28328
 6; -865.6; 01-AUG-2007 03:15:44; Dark ; 43.5; 7; 19Bet Ori ; 0.10; 14000;occ; 87; 0;28328
 7; -781.2; 01-AUG-2007 03:17:08; Dark ; 40.5; 47; 2Bet CMa ; 1.98; 28000;occ; 81; 0;28328
 8; -680.5; 01-AUG-2007 03:18:49; Dark ; 41.5; 139; 9Bet Lep ; 2.83; 5600;occ; 83; 0;28328
 9; -580.1; 01-AUG-2007 03:20:29; Dark ; 36.0; 177; 1Zet CMa ; 3.02; 26000;occ; 72; 0;28328
 10; -483.5; 01-AUG-2007 03:22:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28328
 11; 268.0; 01-AUG-2007 03:34:37; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;28329
 12; 424.7; 01-AUG-2007 03:37:14; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;28329
 13; 716.4; 01-AUG-2007 03:42:06; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;28329
 14; 910.2; 01-AUG-2007 03:45:20; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;28329
 15; 1412.6; 01-AUG-2007 03:53:42; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;28329
 16; 1555.4; 01-AUG-2007 03:56:05; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;28329
 17; 2144.9; 01-AUG-2007 04:05:54; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;28329
 18; 2569.7; 01-AUG-2007 04:12:59; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;28329
 19; 2796.5; 01-AUG-2007 04:16:46; Bright; 36.0; 69; 33Gam Dra ; 2.23; 3800;occ; 72; 0;28329
 20; 3035.5; 01-AUG-2007 04:20:45; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;28329
 21; 3285.2; 01-AUG-2007 04:24:55; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;28329
 22; 3441.2; 01-AUG-2007 04:27:31; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28329

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 2; -1689.8; 01-AUG-2007 04:42:36; Bright; 33.5; 107; 37The Aur ; 2.65; 11000;occ; 67; 0;28329
 3; -1397.3; 01-AUG-2007 04:47:28; Dark ; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;28329
 4; -1177.7; 01-AUG-2007 04:51:08; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;28329
 5; -1012.9; 01-AUG-2007 04:53:53; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;28329
 6; -865.0; 01-AUG-2007 04:56:21; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;28329
 7; -781.2; 01-AUG-2007 04:57:44; Dark ; 41.0; 47; 2Bet CMa ; 1.98; 28000;occ; 82; 0;28329
 8; -680.0; 01-AUG-2007 04:59:26; Dark ; 39.0; 139; 9Bet Lep ; 2.83; 5600;occ; 78; 0;28329
 9; -580.0; 01-AUG-2007 05:01:06; Dark ; 37.0; 177; 1Zet CMa ; 3.02; 26000;occ; 74; 0;28329
 10; -483.3; 01-AUG-2007 05:02:42; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28329
 11; 268.4; 01-AUG-2007 05:15:14; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;28330
 12; 425.1; 01-AUG-2007 05:17:51; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;28330
 13; 716.8; 01-AUG-2007 05:22:42; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;28330
 14; 910.5; 01-AUG-2007 05:25:56; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;28330
 15; 1412.8; 01-AUG-2007 05:34:18; Dark ; 47.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 94; 0;28330
 16; 1555.7; 01-AUG-2007 05:36:41; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;28330
 17; 2145.1; 01-AUG-2007 05:46:31; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;28330
 18; 2569.7; 01-AUG-2007 05:53:35; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;28330
 19; 2796.7; 01-AUG-2007 05:57:22; Bright; 37.5; 69; 33Gam Dra ; 2.23; 3800;occ; 75; 0;28330
 20; 3035.9; 01-AUG-2007 06:01:21; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;28330
 21; 3285.4; 01-AUG-2007 06:05:31; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;28330
 22; 3441.2; 01-AUG-2007 06:08:07; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28330

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1; 1414.3; 01-AUG-2007 20:39:43; Dark ; 40.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 81; 0;28339
 2; 1557.1; 01-AUG-2007 20:42:06; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;28339
 3; 2145.4; 01-AUG-2007 20:51:54; Bright; 33.5; 168; 17Zet Aql ; 2.99; 11000;occ; 67; 0;28339
 4; 2570.3; 01-AUG-2007 20:58:59; Bright; 33.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 67; 0;28339
 5; 2798.1; 01-AUG-2007 21:02:47; Bright; 38.5; 69; 33Gam Dra ; 2.23; 3800;occ; 77; 0;28339

6; 3038.7; 01-AUG-2007 21:06:48; Bright; 29.0; 119; 14Eta Dra ; 2.73; 4700;occ; 58; 0;28339
7; 3287.8; 01-AUG-2007 21:10:57; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;28339
8; 3441.0; 01-AUG-2007 21:13:30; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28339
9; 4212.8; 01-AUG-2007 21:26:22; Bright; 45.5; 42; 34Bet Aur ; 1.90; 10200;occ; 91; 0;28339
10; 4347.2; 01-AUG-2007 21:28:36; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;28339
11; 4641.0; 01-AUG-2007 21:33:30; Dark ; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;28339
12; 4860.9; 01-AUG-2007 21:37:10; Dark ; 37.5; 14; 58Alp Ori ; 0.87; 3000;occ; 75; 0;28339
13; 5026.4; 01-AUG-2007 21:39:55; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;28339
14; 5175.2; 01-AUG-2007 21:42:24; Dark ; 34.0; 7; 19Bet Ori ; 0.10; 14000;occ; 68; 0;28339
15; 5256.5; 01-AUG-2007 21:43:45; Dark ; 38.5; 47; 2Bet CMA ; 1.98; 28000;occ; 77; 0;28339

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1; -779.4; 01-AUG-2007 21:43:45; Dark ; 39.0; 47; 2Bet CMA ; 1.98; 28000;occ; 78; 0;28339
2; -676.1; 01-AUG-2007 21:45:29; Dark ; 40.5; 139; 9Bet Lep ; 2.83; 5600;occ; 81; 0;28339
3; -578.3; 01-AUG-2007 21:47:07; Dark ; 37.0; 177; 1Zet CMA ; 3.02; 26000;occ; 74; 0;28339
4; -481.5; 01-AUG-2007 21:48:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28339
5; 274.2; 01-AUG-2007 22:01:19; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;28340
6; 427.5; 01-AUG-2007 22:03:52; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;28340
7; 720.9; 01-AUG-2007 22:08:46; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;28340
8; 913.0; 01-AUG-2007 22:11:58; Dark ; 37.5; 45; Alp Pav ; 1.94; 26000;occ; 75; 0;28340
9; 1414.5; 01-AUG-2007 22:20:19; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;28340
10; 1557.2; 01-AUG-2007 22:22:42; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;28340
11; 2145.4; 01-AUG-2007 22:32:30; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;28340
12; 2570.4; 01-AUG-2007 22:39:35; Bright; 34.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 68; 0;28340
13; 2798.2; 01-AUG-2007 22:43:23; Bright; 33.0; 69; 33Gam Dra ; 2.23; 3800;occ; 66; 0;28340
14; 3288.1; 01-AUG-2007 22:51:33; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;28340
15; 3441.0; 01-AUG-2007 22:54:06; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28340
16; 4213.0; 01-AUG-2007 23:06:58; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;28340
17; 4347.5; 01-AUG-2007 23:09:12; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28340
18; 4641.2; 01-AUG-2007 23:14:06; Dark ; 41.5; 176; 23Zet Tau ; 3.02; 22000;occ; 83; 0;28340
19; 4861.1; 01-AUG-2007 23:17:46; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;28340
20; 5026.7; 01-AUG-2007 23:20:32; Dark ; 39.5; 30; 46Eps Ori ; 1.69; 30000;occ; 79; 0;28340
21; 5153.6; 01-AUG-2007 23:22:38; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;28340
22; 5256.8; 01-AUG-2007 23:24:22; Dark ; 39.5; 47; 2Bet CMA ; 1.98; 28000;occ; 79; 0;28340
23; 5360.2; 01-AUG-2007 23:26:05; Dark ; 42.0; 139; 9Bet Lep ; 2.83; 5600;occ; 84; 0;28340

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1; -675.7; 01-AUG-2007 23:26:05; Dark ; 42.5; 139; 9Bet Lep ; 2.83; 5600;occ; 85; 0;28340
2; -578.3; 01-AUG-2007 23:27:42; Dark ; 38.5; 177; 1Zet CMA ; 3.02; 26000;occ; 77; 0;28340
3; -481.3; 01-AUG-2007 23:29:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28340
4; 274.7; 01-AUG-2007 23:41:55; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28341
5; 427.7; 01-AUG-2007 23:44:28; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;28341
6; 721.5; 01-AUG-2007 23:49:22; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;28341
7; 913.2; 01-AUG-2007 23:52:34; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;28341
8; 1414.5; 02-AUG-2007 00:00:55; Dark ; 51.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 102; 0;28341
9; 1557.2; 02-AUG-2007 00:03:18; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;28341
10; 2145.5; 02-AUG-2007 00:13:06; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;28341
11; 2570.4; 02-AUG-2007 00:20:11; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;28341
12; 2798.4; 02-AUG-2007 00:23:59; Bright; 37.0; 69; 33Gam Dra ; 2.23; 3800;occ; 74; 0;28341
13; 3288.3; 02-AUG-2007 00:32:09; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;28341
14; 3441.0; 02-AUG-2007 00:34:42; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;28341
15; 4213.3; 02-AUG-2007 00:47:34; Bright; 46.5; 42; 34Bet Aur ; 1.90; 10200;occ; 93; 0;28341
16; 4347.7; 02-AUG-2007 00:49:48; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;28341
17; 4641.1; 02-AUG-2007 00:54:42; Dark ; 41.0; 176; 23Zet Tau ; 3.02; 22000;occ; 82; 0;28341
18; 4861.2; 02-AUG-2007 00:58:22; Dark ; 39.0; 14; 58Alp Ori ; 0.87; 3000;occ; 78; 0;28341
19; 5027.1; 02-AUG-2007 01:01:08; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;28341
20; 5153.9; 02-AUG-2007 01:03:15; Dark ; 41.0; 56; 53Kap Ori ; 2.07; 30000;occ; 82; 0;28341
21; 5257.0; 02-AUG-2007 01:04:58; Dark ; 40.5; 47; 2Bet CMA ; 1.98; 28000;occ; 81; 0;28341
22; 5360.6; 02-AUG-2007 01:06:41; Dark ; 7.5; 139; 9Bet Lep ; 2.83; 5600;occ; 15; 0;28341

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3; -1397.0; 01-AUG-2007 06:28:05; Dark ; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;28330
4; -1177.7; 01-AUG-2007 06:31:44; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;28330
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6; -864.6; 01-AUG-2007 06:36:57; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;28330
7; -780.9; 01-AUG-2007 06:38:21; Dark ; 42.0; 47; 2Bet CMA ; 1.98; 28000;occ; 84; 0;28330
8; -679.6; 01-AUG-2007 06:40:02; Dark ; 43.5; 139; 9Bet Lep ; 2.83; 5600;occ; 87; 0;28330
9; -579.8; 01-AUG-2007 06:41:42; Dark ; 38.0; 177; 1Zet CMA ; 3.02; 26000;occ; 76; 0;28330
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 3; 717.7; 01-AUG-2007 08:43:55; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;28332
 4; 911.0; 01-AUG-2007 08:47:08; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;28332
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 18; 6753.9; 01-AUG-2007 10:24:31; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;28332
 19; 6947.2; 01-AUG-2007 10:27:45; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;28332
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 21; 7592.0; 01-AUG-2007 10:38:29; Bright; 36.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 72; 0;28332

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 9; 4639.4; 01-AUG-2007 11:29:53; Dark ; 40.0; 176; 23Zet Tau ; 3.02; 22000;occ; 80; 0;28333
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 11; 5024.4; 01-AUG-2007 11:36:18; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;28333
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 18; 6754.4; 01-AUG-2007 12:05:08; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;28333
 19; 6947.4; 01-AUG-2007 12:08:21; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;28333
 20; 7449.4; 01-AUG-2007 12:16:43; Dark ; 45.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 91; 0;28333
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 9; 4346.8; 01-AUG-2007 13:05:36; Bright; 33.5; 107; 37The Aur ; 2.65; 11000;occ; 67; 0;28334
 10; 4640.0; 01-AUG-2007 13:10:29; Dark ; 40.0; 176; 23Zet Tau ; 3.02; 22000;occ; 80; 0;28334
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 4; 2797.5; 01-AUG-2007 14:20:23; Bright; 37.0; 69; 33Gam Dra ; 2.23; 3800;occ; 74; 0;28335
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 9; 4346.9; 01-AUG-2007 14:46:12; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;28335
10; 4640.0; 01-AUG-2007 14:51:05; Dark ; 41.0; 176; 23Zet Tau ; 3.02; 22000;occ; 82; 0;28335
11; 4859.8; 01-AUG-2007 14:54:45; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;28335
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13; 5173.7; 01-AUG-2007 14:59:59; Dark ; 41.5; 7; 19Bet Ori ; 0.10; 14000;occ; 83; 0;28335
14; 5304.5; 01-AUG-2007 15:02:10; Dark ; 41.0; 101; 11Alp Lep ; 2.58; 7000;occ; 82; 0;28335
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11; 4640.0; 01-AUG-2007 16:31:41; Dark ; 40.0; 176; 23Zet Tau ; 3.02; 22000;occ; 80; 0;28336
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16; 5358.7; 01-AUG-2007 16:43:40; Dark ; 43.0; 139; 9Bet Lep ; 2.83; 5600;occ; 86; 0;28336
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12; 4860.2; 01-AUG-2007 18:15:57; Dark ; 34.0; 14; 58Alp Ori ; 0.87; 3000;occ; 68; 0;28337
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14; 5174.6; 01-AUG-2007 18:21:12; Dark ; 51.0; 7; 19Bet Ori ; 0.10; 14000;occ; 102; 0;28337
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16; 5359.1; 01-AUG-2007 18:24:16; Dark ; 42.5; 139; 9Bet Lep ; 2.83; 5600;occ; 85; 0;28337
17; 5457.2; 01-AUG-2007 18:25:54; Dark ; 38.0; 177; 1Zet CMa ; 3.02; 26000;occ; 76; 0;28337
18; 5554.2; 01-AUG-2007 18:27:31; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28337
19; 6309.0; 01-AUG-2007 18:40:06; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28337

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13; 4783.3; 30-AUG-2007 19:43:45; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28753
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18; 6989.3; 31-AUG-2007 11:25:54; Dark ; 59.5; 84; Alp Phe ; 2.40; 4500;occ; 119; 0;28762
19; 7082.3; 31-AUG-2007 11:27:27; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;28762
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21; 7653.5; 31-AUG-2007 11:36:59; Dark ; 43.0; 142; 49Del Cap ; 2.85; 8900;occ; 86; 0;28762

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4; 2076.4; 31-AUG-2007 11:44:37; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28763
5; 2486.9; 31-AUG-2007 11:51:28; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;28763
6; 2677.7; 31-AUG-2007 11:54:39; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28763
7; 2977.2; 31-AUG-2007 11:59:38; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28763
8; 3434.9; 31-AUG-2007 12:07:16; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28763
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7; 2977.2; 31-AUG-2007 13:40:14; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28764
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9; 4450.8; 31-AUG-2007 14:04:48; Bright; 50.5; 24; 66Alp Gem ; 1.58; 10200;occ; 101; 0;28764
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3; 1896.1; 31-AUG-2007 15:02:49; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28765
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5; 2487.1; 31-AUG-2007 15:12:40; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;28765

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9; 4451.0; 31-AUG-2007 15:45:24; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;28765
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4; 1896.0; 31-AUG-2007 16:43:25; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28766
5; 2076.2; 31-AUG-2007 16:46:25; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28766
6; 2487.1; 31-AUG-2007 16:53:16; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;28766
7; 2677.9; 31-AUG-2007 16:56:27; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28766
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11; 4609.6; 31-AUG-2007 17:28:38; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28766
12; 4788.3; 31-AUG-2007 17:31:37; Dark ; 52.5; 44; 24Gam Gem ; 1.93; 11000;occ; 105; 0;28766
13; 4911.4; 31-AUG-2007 17:33:40; Dark ; 48.5; 8; 10Alp CMi ; 0.40; 6500;occ; 97; 0;28766
14; 5367.8; 31-AUG-2007 17:41:16; Dark ; 58.0; 1; 9Alp CMa ; -1.44; 11000;occ; 116; 0;28766
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16; 5633.3; 31-AUG-2007 17:45:42; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28766
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22; 6992.3; 31-AUG-2007 19:48:57; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;28767

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