

GOMOS Daily Report 31-JUL-2008

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	02AUG2008 05:35:43
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (31JUL2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (01AUG2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	1

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

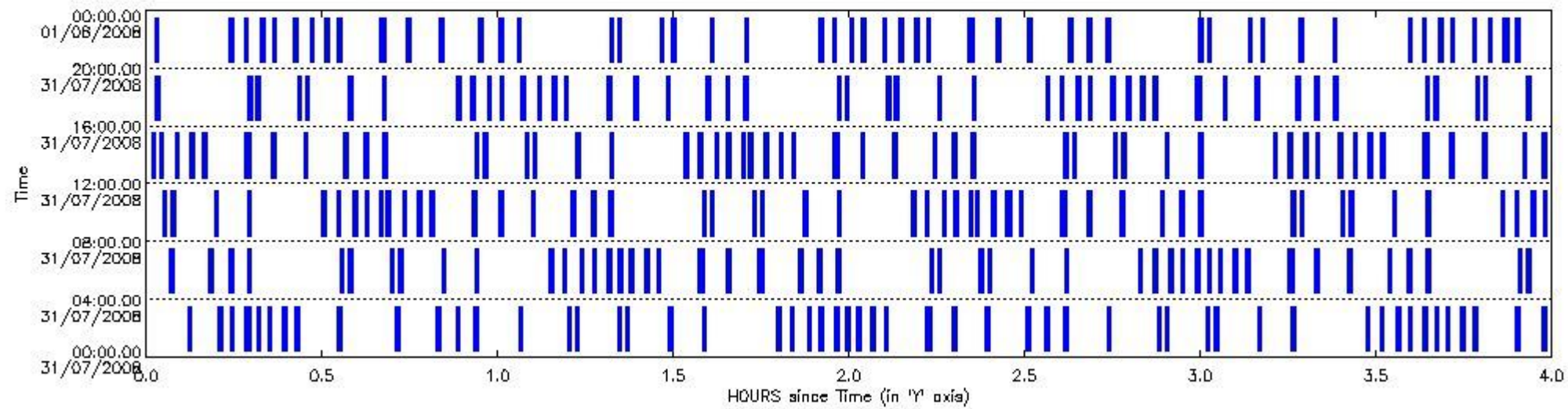
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

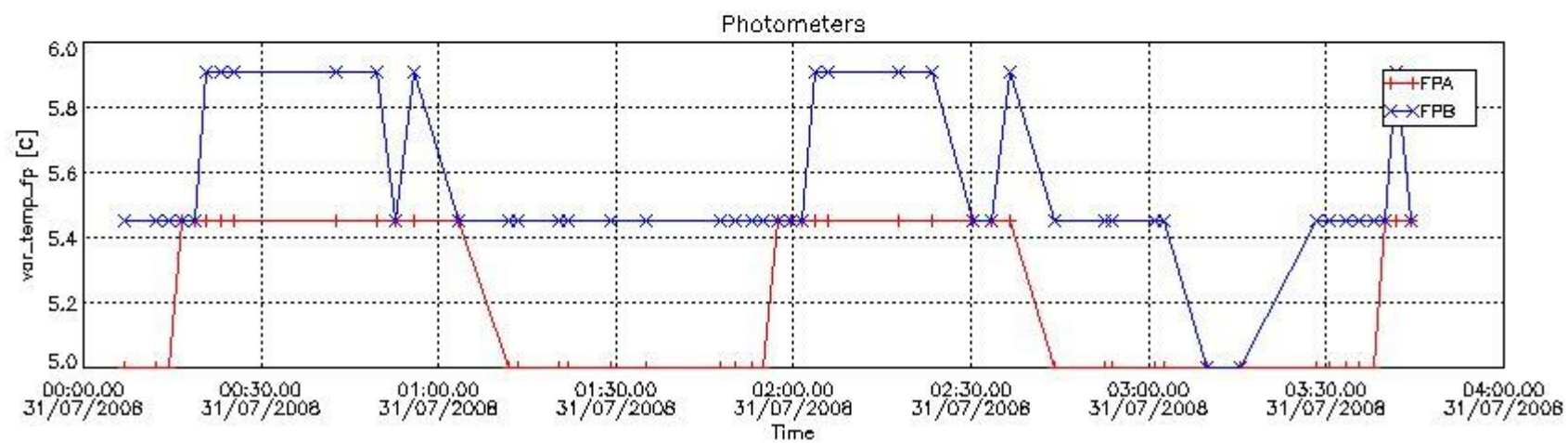
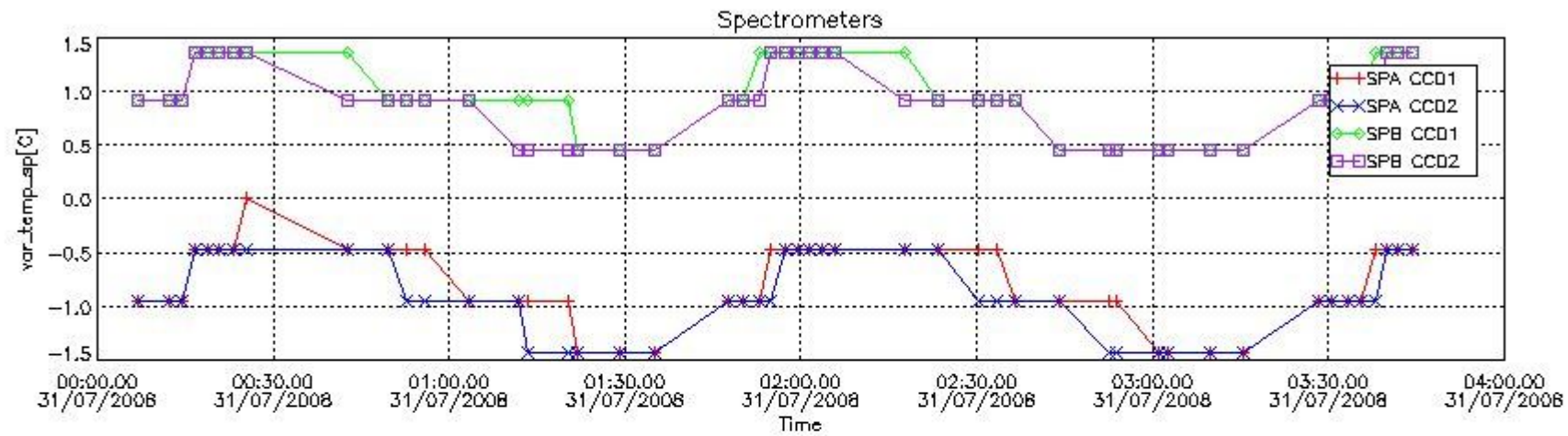
No missing products.

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_1PNPDE20080731_000701_000000422070_00431_33551_7674.N1	31-JUL-2008 00:07:01	Bright	42.000	6	13Alp Aur	0.080000	3400.0	84	33551	No
2	GOM_TRA_1PNPDE20080731_001214_000000452070_00431_33551_7675.N1	31-JUL-2008 00:12:14	Bright	45.000	28	12Bet Tau	1.6500	15200.	90	33551	No
3	GOM_TRA_1PNPDE20080731_001418_000000382070_00431_33551_7676.N1	31-JUL-2008 00:14:18	Twi_and_stray	38.000	176	23Zet Tau	3.0200	22000.	76	33551	No
4	GOM_TRA_1PNPDE20080731_001646_000000632070_00431_33551_7677.N1	31-JUL-2008 00:16:46	Dark	63.000	13	87Alp Tau	0.86700	3800.0	126	33551	No
5	GOM_TRA_1PNPDE20080731_001847_000000412070_00431_33551_7678.N1	31-JUL-2008 00:18:47	Dark	41.000	27	24Gam Ori	1.6360	26000.	82	33551	No
6	GOM_TRA_1PNPDE20080731_002042_000000402070_00431_33551_7679.N1	31-JUL-2008 00:20:42	Dark	40.000	30	46Eps Ori	1.6940	30000.	80	33551	No
7	GOM_TRA_1PNPDE20080731_002309_000000502070_00431_33551_7680.N1	31-JUL-2008 00:23:09	Dark	49.500	7	19Bet Ori	0.10000	14000.	99	33551	No
8	GOM_TRA_1PNPDE20080731_002520_000000422070_00431_33551_7805.N1	31-JUL-2008 00:25:20	Dark	42.000	101	11Alp Lep	2.5820	7000.0	84	33551	Yes
9	GOM_TRA_1PNPDE20080731_004236_000000422070_00432_33552_7806.N1	31-JUL-2008 00:42:36	Dark	42.000	9	Alp Eri	0.45300	24000.	84	33552	No
10	GOM_TRA_1PNPDE20080731_004930_000000482070_00432_33552_7807.N1	31-JUL-2008 00:49:30	Straylight	47.500	148	Alp Tuc	2.8780	4100.0	95	33552	No
11	GOM_TRA_1PNPDE20080731_005250_000000462070_00432_33552_7808.N1	31-JUL-2008 00:52:50	Straylight	45.500	31	Alp Gru	1.7340	15200.	91	33552	No
12	GOM_TRA_1PNPDE20080731_005559_000000462070_00432_33552_7809.N1	31-JUL-2008 00:55:59	Straylight	45.500	172	Gam Gru	3.0030	13100.	91	33552	No

13	GOM_TRA_1PNPDE20080731_010331_000000372070_00432_33552_7810.N1	31-JUL-2008 01:03:31	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	33552	No
14	GOM_TRA_1PNPDE20080731_011157_000000382070_00432_33552_7811.N1	31-JUL-2008 01:11:57	Bright	37.500	11	53Alp Aql	0.76500	8000.0	75	33552	No
15	GOM_TRA_1PNPDE20080731_011321_000000352070_00432_33552_7812.N1	31-JUL-2008 01:13:21	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	33552	No
16	GOM_TRA_1PNPDE20080731_012026_000000342070_00432_33552_7813.N1	31-JUL-2008 01:20:26	Bright	33.500	5	3Alp Lyr	0.033000	11000.	67	33552	No
17	GOM_TRA_1PNPDE20080731_012151_000000382070_00432_33552_7814.N1	31-JUL-2008 01:21:51	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	33552	No
18	GOM_TRA_1PNPDE20080731_012912_000000392070_00432_33552_7815.N1	31-JUL-2008 01:29:12	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	33552	No
19	GOM_TRA_1PNPDE20080731_013458_000000352070_00432_33552_7816.N1	31-JUL-2008 01:34:58	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	33552	No
20	GOM_TRA_1PNPDE20080731_014737_000000412070_00432_33552_7817.N1	31-JUL-2008 01:47:37	Bright	40.500	6	13Alp Aur	0.080000	3400.0	81	33552	No
21	GOM_TRA_1PNPDE20080731_015002_000000342070_00432_33552_7818.N1	31-JUL-2008 01:50:02	Bright	33.500	107	37The Aur	2.6490	11000.	67	33552	No
22	GOM_TRA_1PNPDE20080731_015250_000000462070_00432_33552_7819.N1	31-JUL-2008 01:52:50	Bright	46.000	28	12Bet Tau	1.6500	15200.	92	33552	No
23	GOM_TRA_1PNPDE20080731_015454_000000412070_00432_33552_7820.N1	31-JUL-2008 01:54:54	Twilight	40.500	176	23Zet Tau	3.0200	22000.	81	33552	No
24	GOM_TRA_1PNPDE20080731_015722_000000612070_00432_33552_7821.N1	31-JUL-2008 01:57:22	Dark	61.000	13	87Alp Tau	0.86700	3800.0	122	33552	No
25	GOM_TRA_1PNPDE20080731_015923_000000422070_00432_33552_7822.N1	31-JUL-2008 01:59:23	Dark	42.000	27	24Gam Ori	1.6360	26000.	84	33552	No
26	GOM_TRA_1PNPDE20080731_020118_000000422070_00432_33552_7823.N1	31-JUL-2008 02:01:18	Dark	42.000	30	46Eps Ori	1.6940	30000.	84	33552	No
27	GOM_TRA_1PNPDE20080731_020345_000000472070_00432_33552_7940.N1	31-JUL-2008 02:03:45	Dark	46.500	7	19Bet Ori	0.10000	14000.	93	33552	No
28	GOM_TRA_1PNPDE20080731_020557_000000412070_00432_33552_7941.N1	31-JUL-2008 02:05:57	Dark	41.000	101	11Alp Lep	2.5820	7000.0	82	33552	No
29	GOM_TRA_1PNPDE20080731_021739_000000462070_00432_33552_7942.N1	31-JUL-2008 02:17:39	Dark	46.000	157	The1Eri	2.9060	9300.0	92	33552	No
30	GOM_TRA_1PNPDE20080731_022313_000000492070_00433_33553_7943.N1	31-JUL-2008 02:23:13	Dark	49.000	9	Alp Eri	0.45300	24000.	98	33553	No
31	GOM_TRA_1PNPDE20080731_023007_000000462070_00433_33553_7944.N1	31-JUL-2008 02:30:07	Straylight	45.500	148	Alp Tuc	2.8780	4100.0	91	33553	No
32	GOM_TRA_1PNPDE20080731_023327_000000462070_00433_33553_7945.N1	31-JUL-2008 02:33:27	Straylight	45.500	31	Alp Gru	1.7340	15200.	91	33553	No
33	GOM_TRA_1PNPDE20080731_023636_000000462070_00433_33553_7946.N1	31-JUL-2008 02:36:36	Straylight	45.500	172	Gam Gru	3.0030	13100.	91	33553	No
34	GOM_TRA_1PNPDE20080731_024407_000000372070_00433_33553_7947.N1	31-JUL-2008 02:44:07	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	33553	No
35	GOM_TRA_1PNPDE20080731_025233_000000392070_00433_33553_7948.N1	31-JUL-2008 02:52:33	Bright	39.000	11	53Alp Aql	0.76500	8000.0	78	33553	No
36	GOM_TRA_1PNPDE20080731_025357_000000362070_00433_33553_7949.N1	31-JUL-2008 02:53:57	Bright	36.000	168	17Zet Aql	2.9860	11000.	72	33553	No
37	GOM_TRA_1PNPDE20080731_030102_000000362070_00433_33553_7950.N1	31-JUL-2008 03:01:02	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	33553	No
38	GOM_TRA_1PNPDE20080731_030227_000000412070_00433_33553_7951.N1	31-JUL-2008 03:02:27	Bright	41.000	66	37Gam Cyg	2.2080	5900.0	82	33553	No
39	GOM_TRA_1PNPDE20080731_030948_000000382070_00433_33553_7952.N1	31-JUL-2008 03:09:48	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	33553	No
40	GOM_TRA_1PNPDE20080731_031534_000000362070_00433_33553_7953.N1	31-JUL-2008 03:15:34	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	33553	No
41	GOM_TRA_1PNPDE20080731_032813_000000432070_00433_33553_8103.N1	31-JUL-2008 03:28:13	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	33553	No
42	GOM_TRA_1PNPDE20080731_033038_000000352070_00433_33553_8104.N1	31-JUL-2008 03:30:38	Bright	35.000	107	37The Aur	2.6490	11000.	70	33553	No
43	GOM_TRA_1PNPDE20080731_033326_000000442070_00433_33553_8105.N1	31-JUL-2008 03:33:26	Bright	43.500	28	12Bet Tau	1.6500	15200.	87	33553	No
44	GOM_TRA_1PNPDE20080731_033530_000000392070_00433_33553_8106.N1	31-JUL-2008 03:35:30	Twilight	39.000	176	23Zet Tau	3.0200	22000.	78	33553	No
45	GOM_TRA_1PNPDE20080731_033759_000000542070_00433_33553_8107.N1	31-JUL-2008 03:37:59	Dark	53.500	13	87Alp Tau	0.86700	3800.0	107	33553	No
46	GOM_TRA_1PNPDE20080731_033959_000000432070_00433_33553_8108.N1	31-JUL-2008 03:39:59	Dark	42.500	27	24Gam Ori	1.6360	26000.	85	33553	No
47	GOM_TRA_1PNPDE20080731_034154_000000422070_00433_33553_8109.N1	31-JUL-2008 03:41:54	Dark	41.500	30	46Eps Ori	1.6940	30000.	83	33553	No
48	GOM_TRA_1PNPDE20080731_034421_000000522070_00433_33553_8110.N1	31-JUL-2008 03:44:21	Dark	51.500	7	19Bet Ori	0.10000	14000.	103	33553	No

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



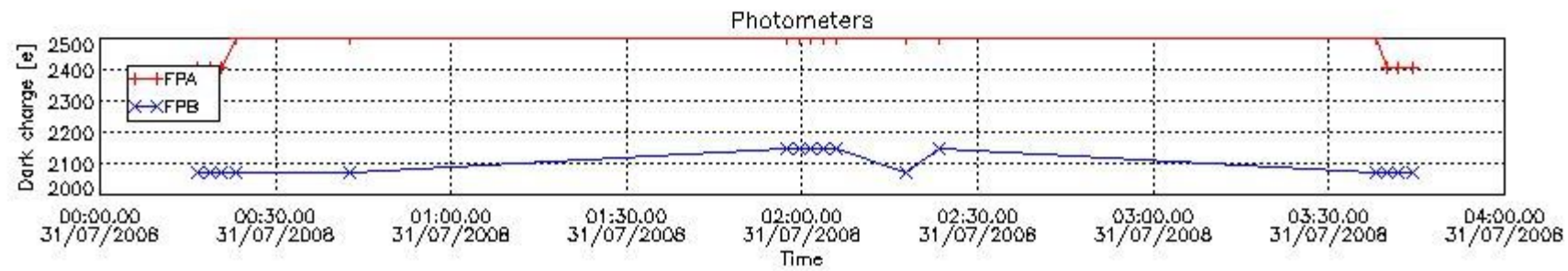
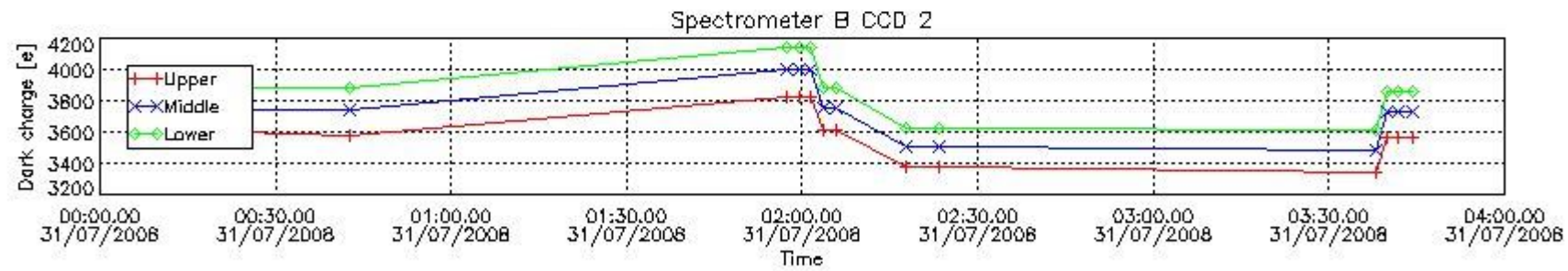
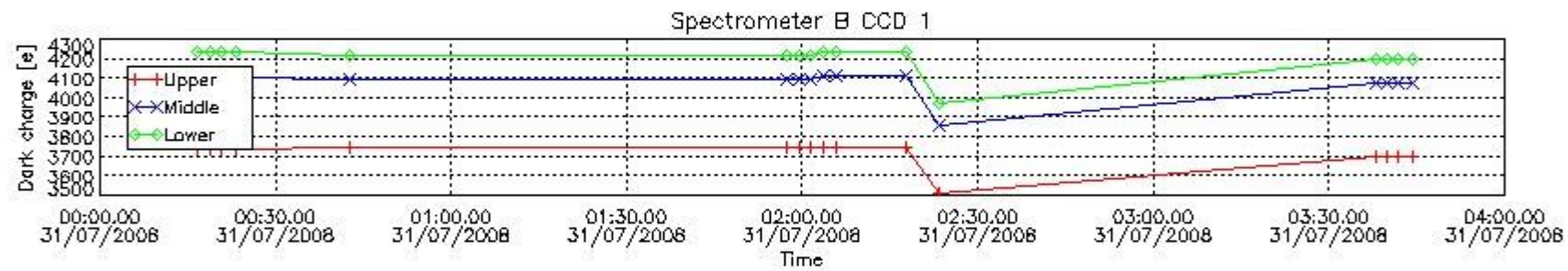
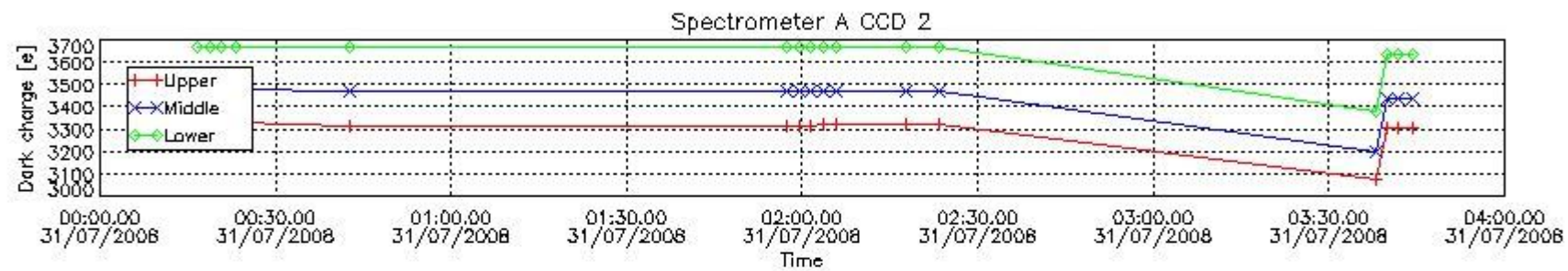
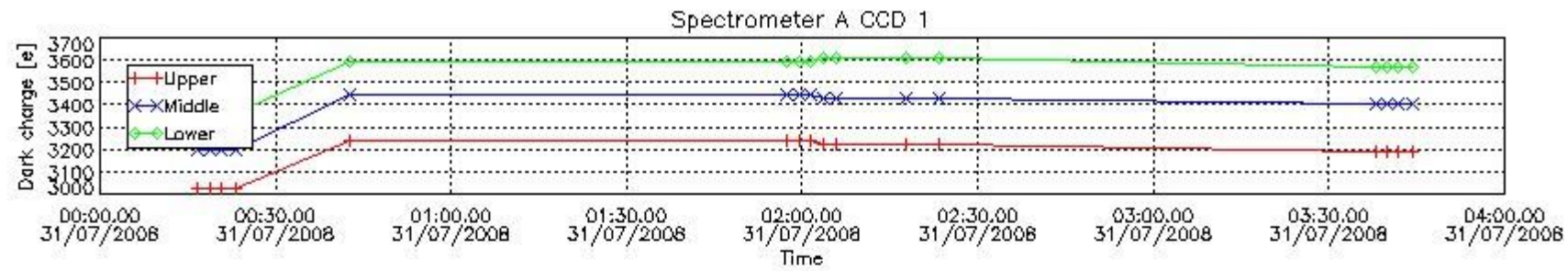
4. Overview of dark signal processing per product

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



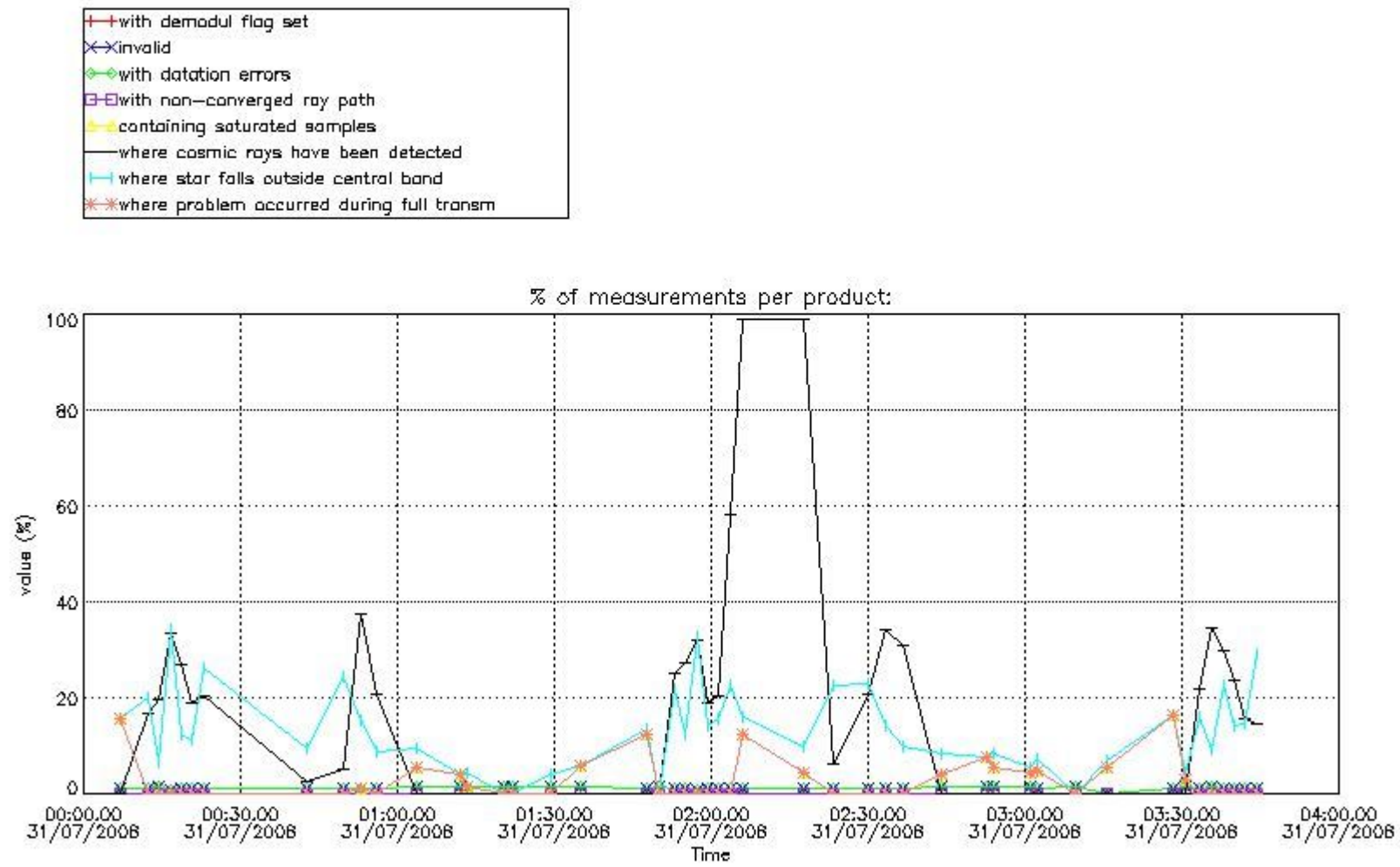
5. Demodulation flag and quality information monitoring

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.

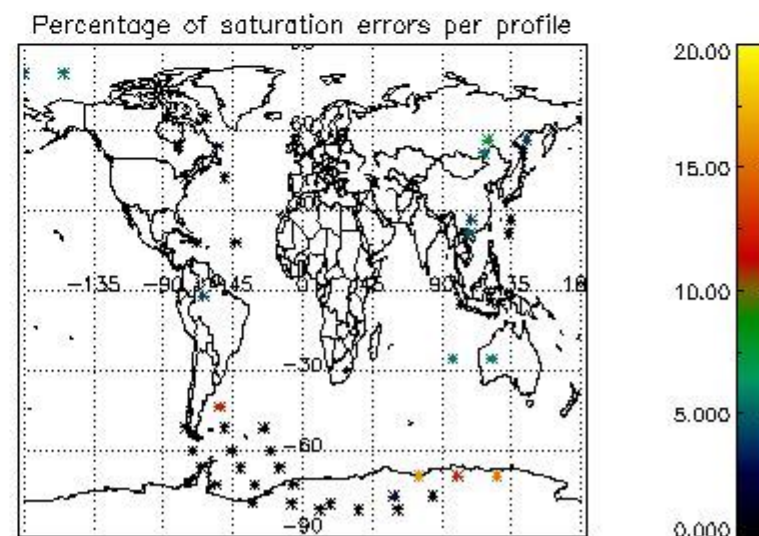
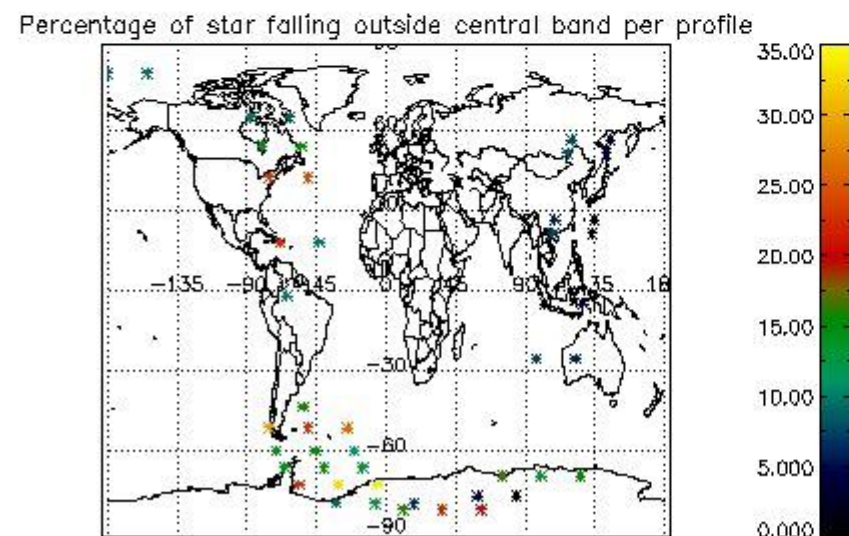
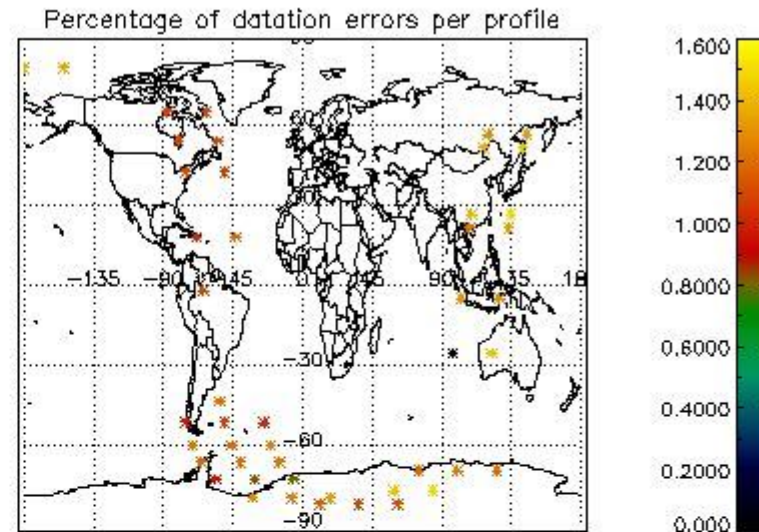
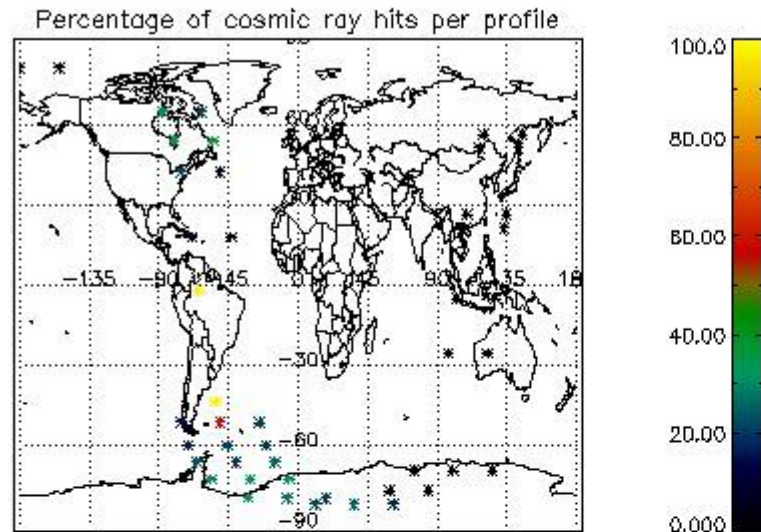
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	21.2766 %
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)



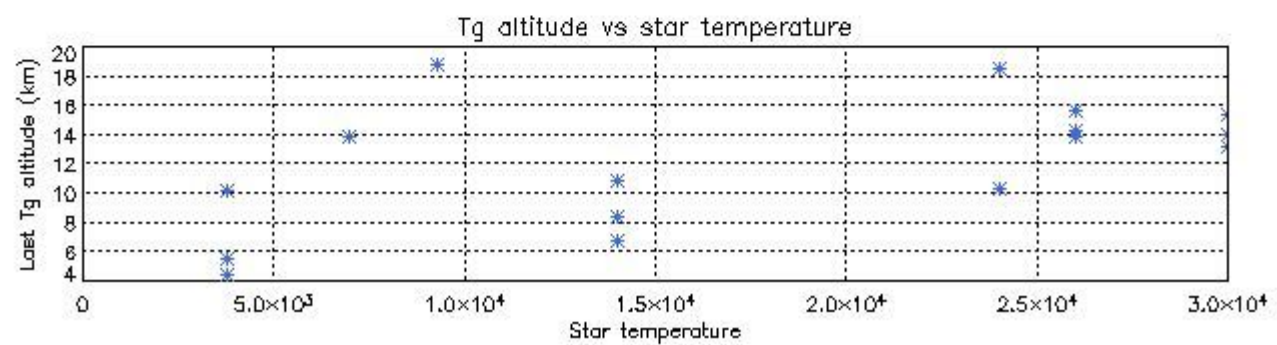
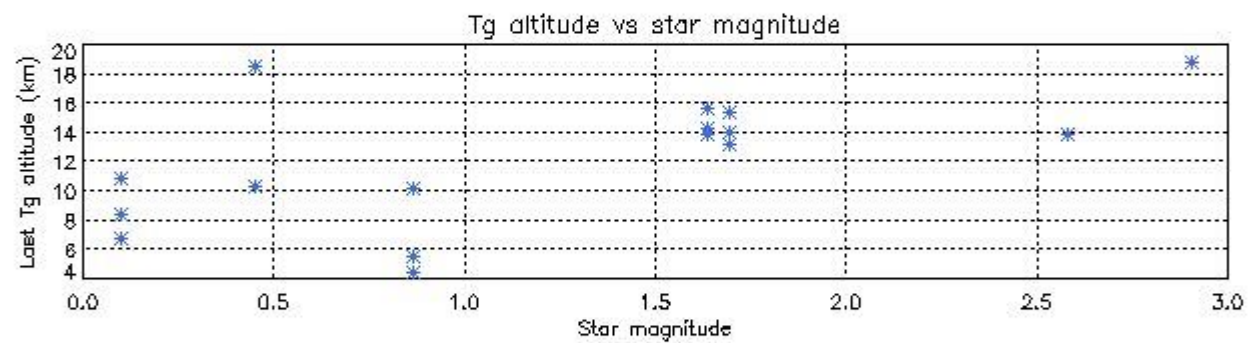
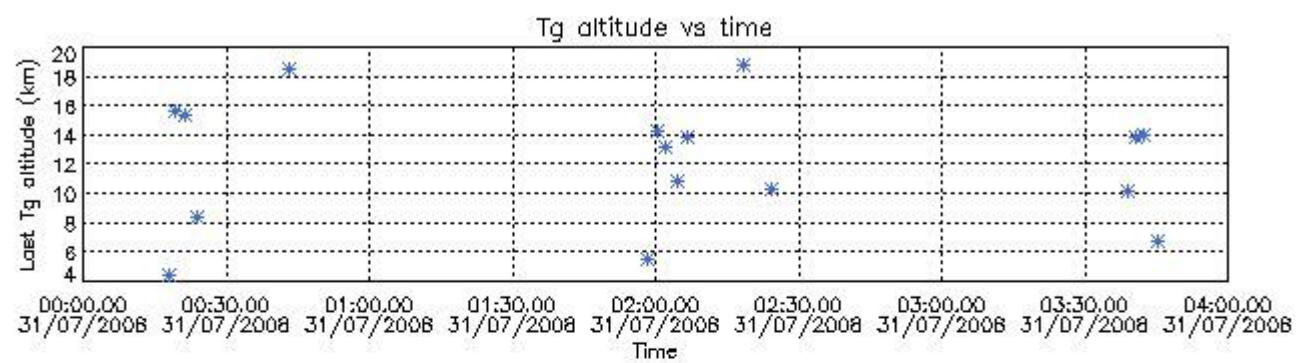
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.095	20.050	NaN
St. deviation:	4.3146	4.8075	NaN
Maximum:	18.800	26.640	NaN
Minimum:	4.3521	10.773	NaN
Number of data:	16.000	22.000	NaN

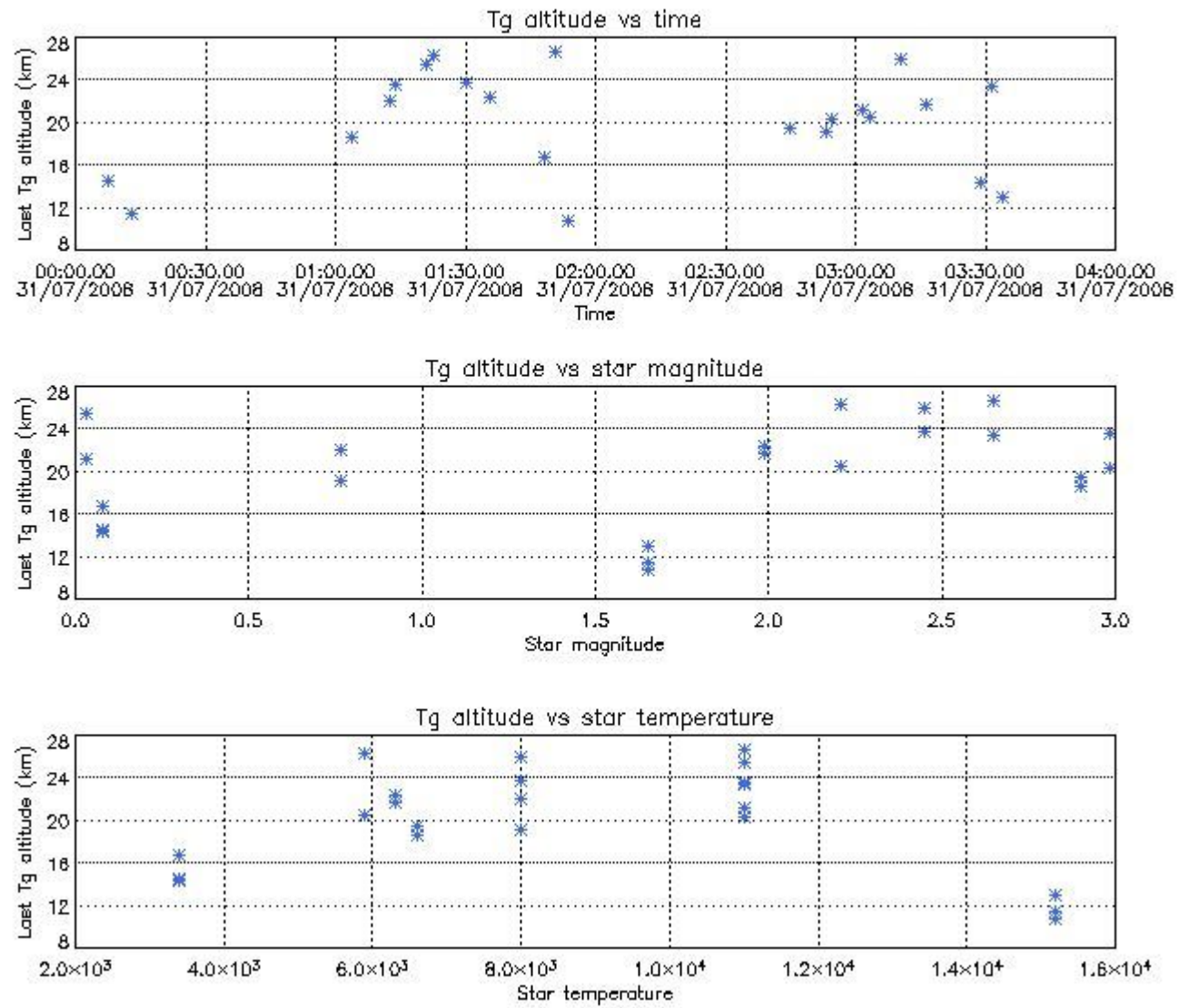
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

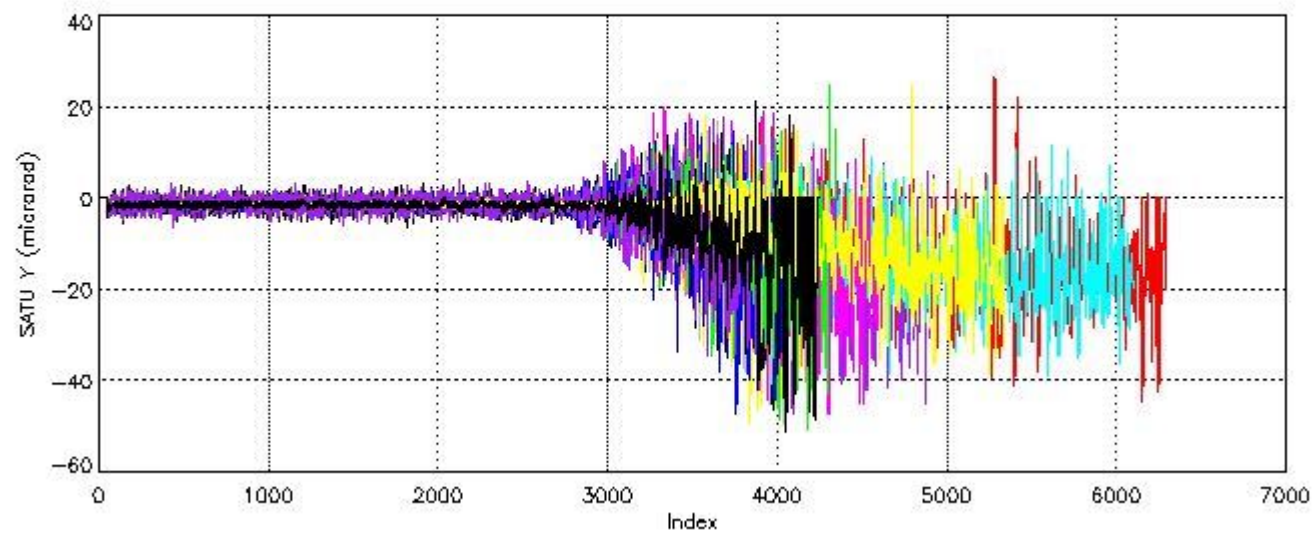
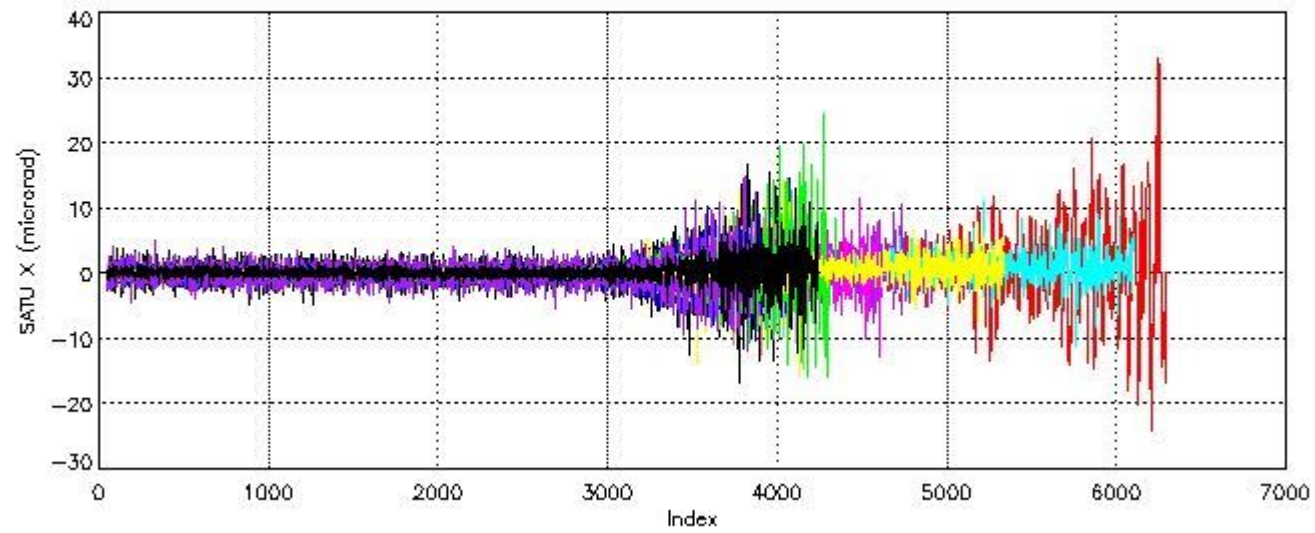


7. Star Acquisition and Tracking Unit (SATU)

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:	0.12772	-1.3589	0.085698	-1.3658
St. deviation:	0.36642	0.52880	0.63776	0.77605
Maximum:	2.8000	2.1000	5.8000	4.4000
Minimum:	-2.8000	-5.0000	-5.5000	-6.9000

Number of data:	15000.	15000.	18950.	18950.
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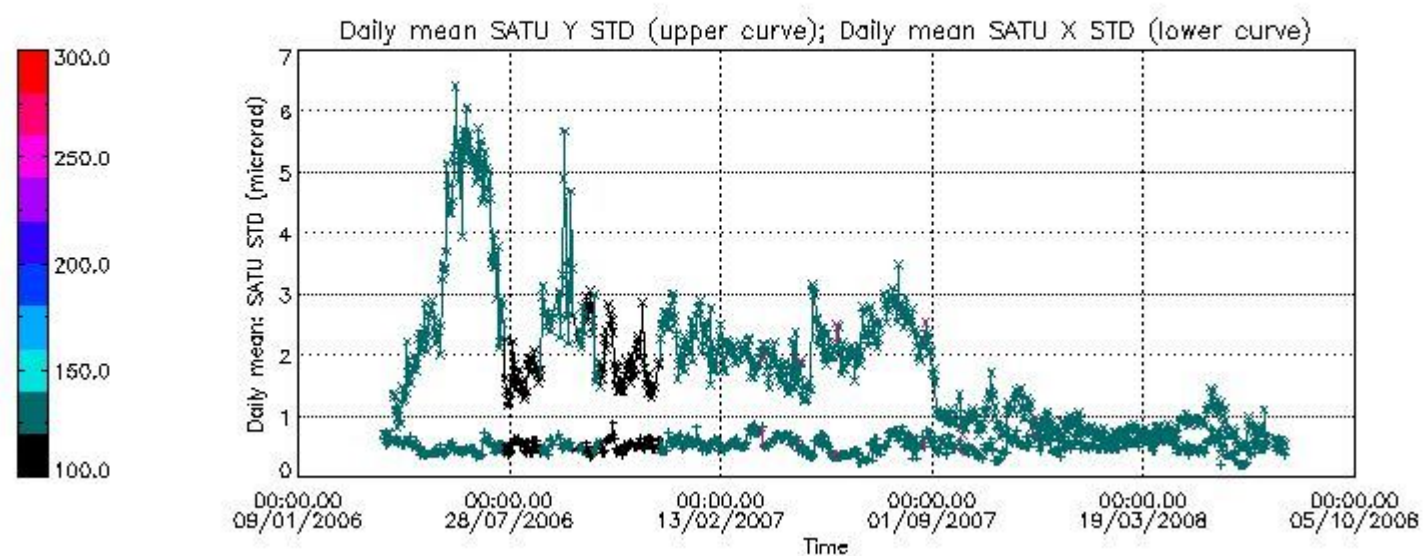
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

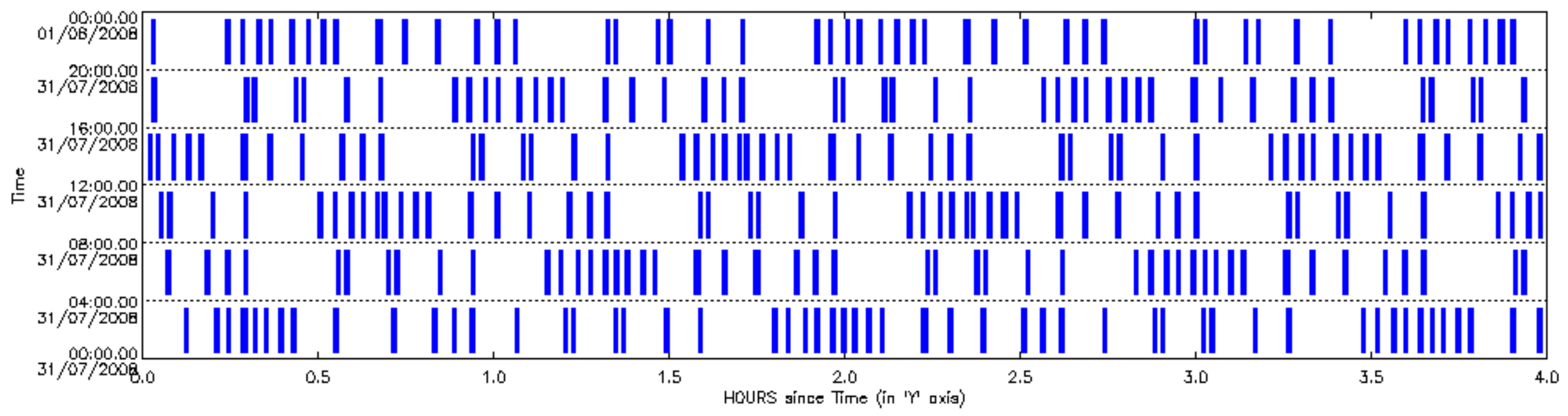
Lower curve: STD of SATU X axis

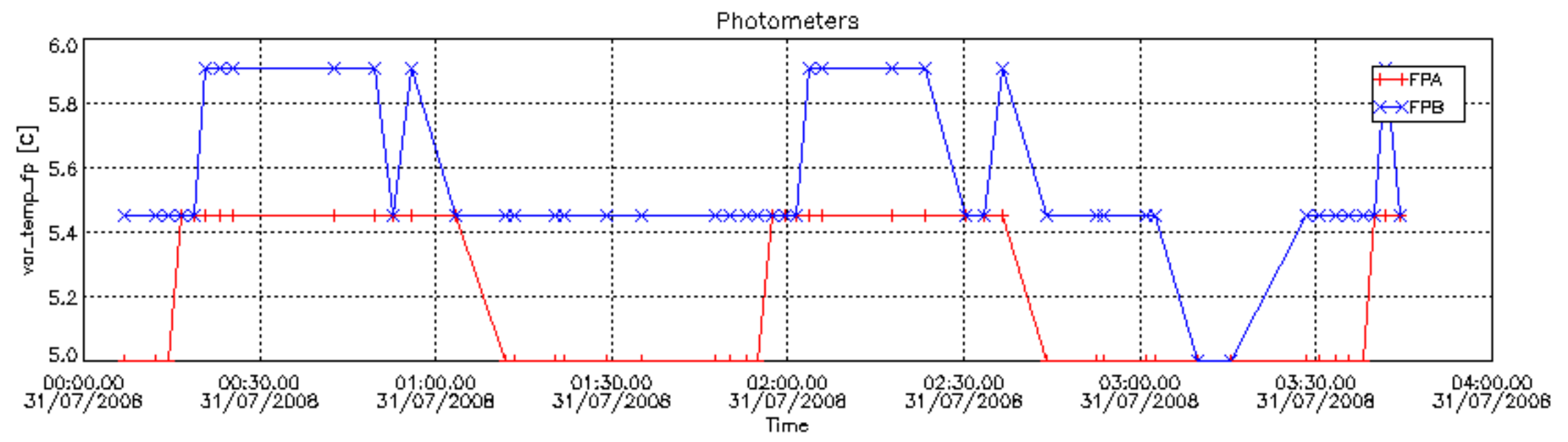
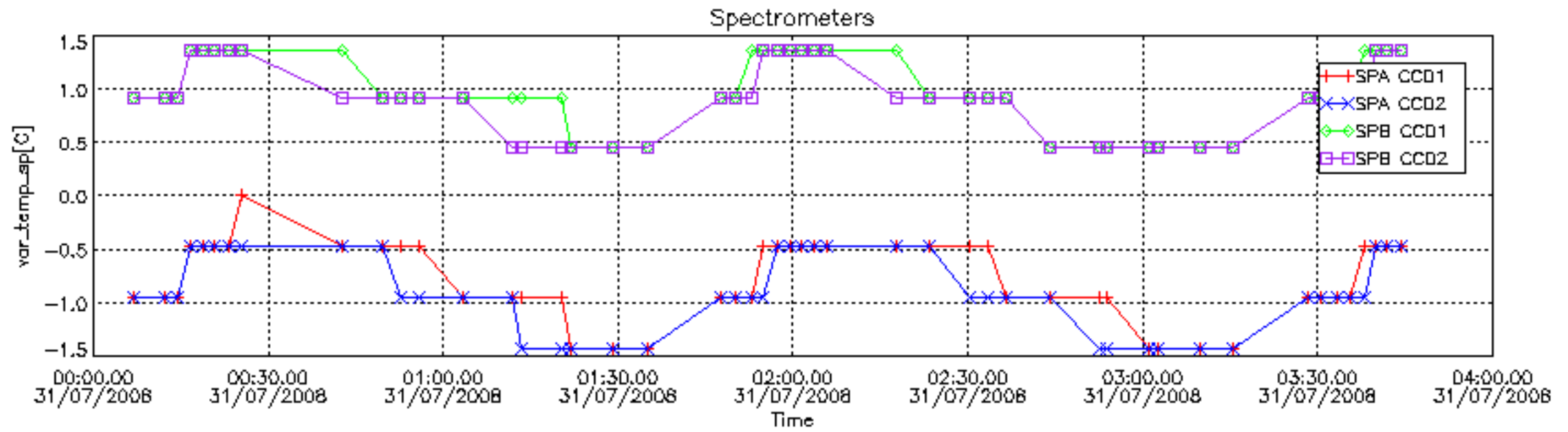


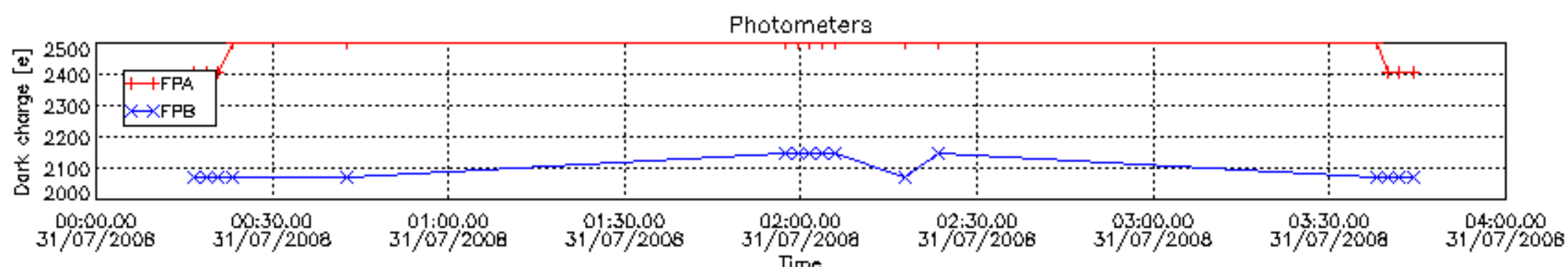
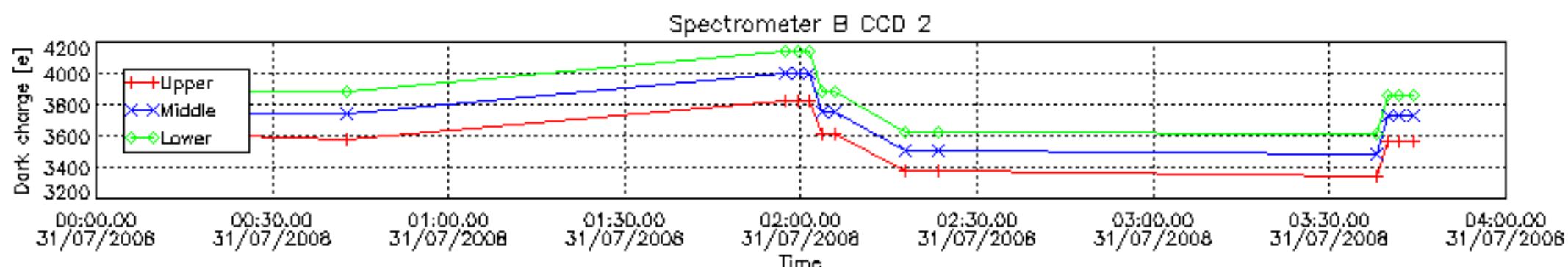
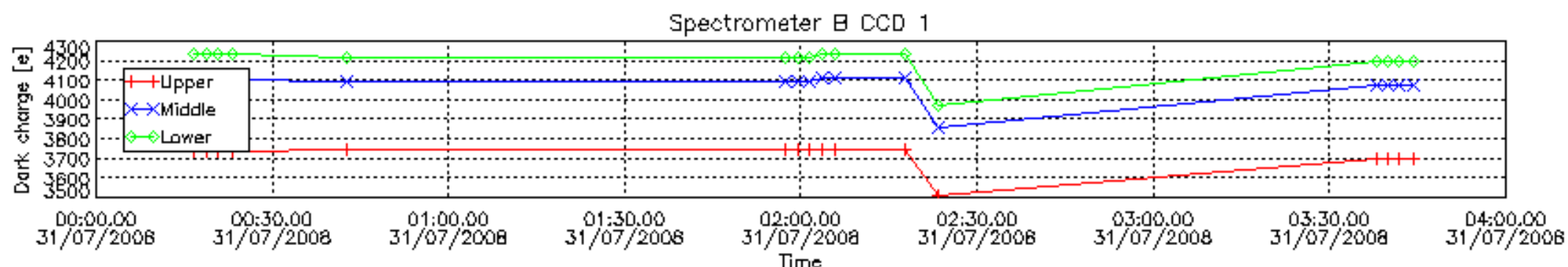
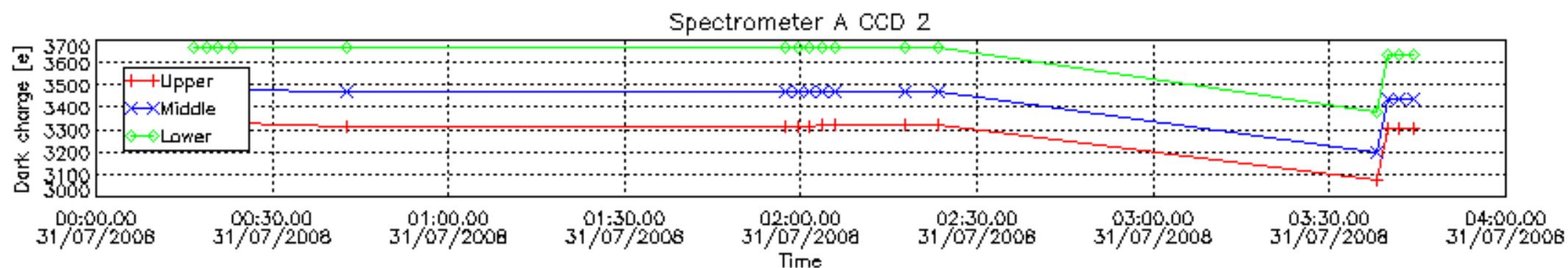
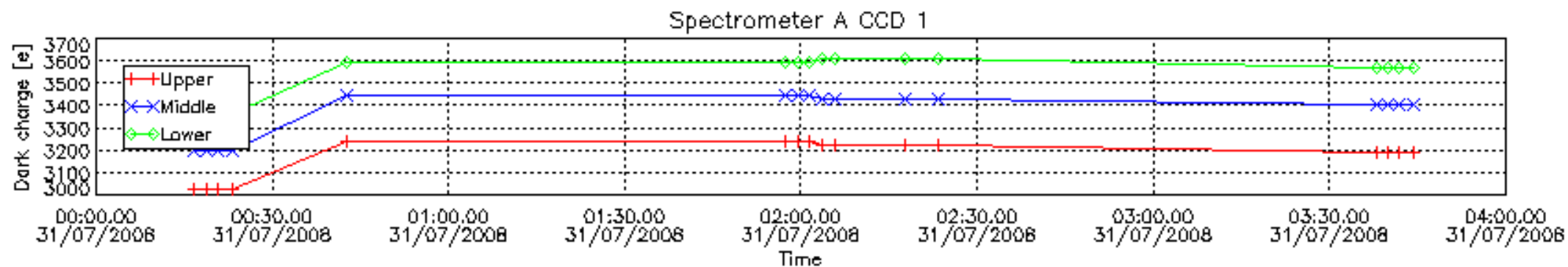
8. Auxiliary Data Files used for the production reported in section 2.4

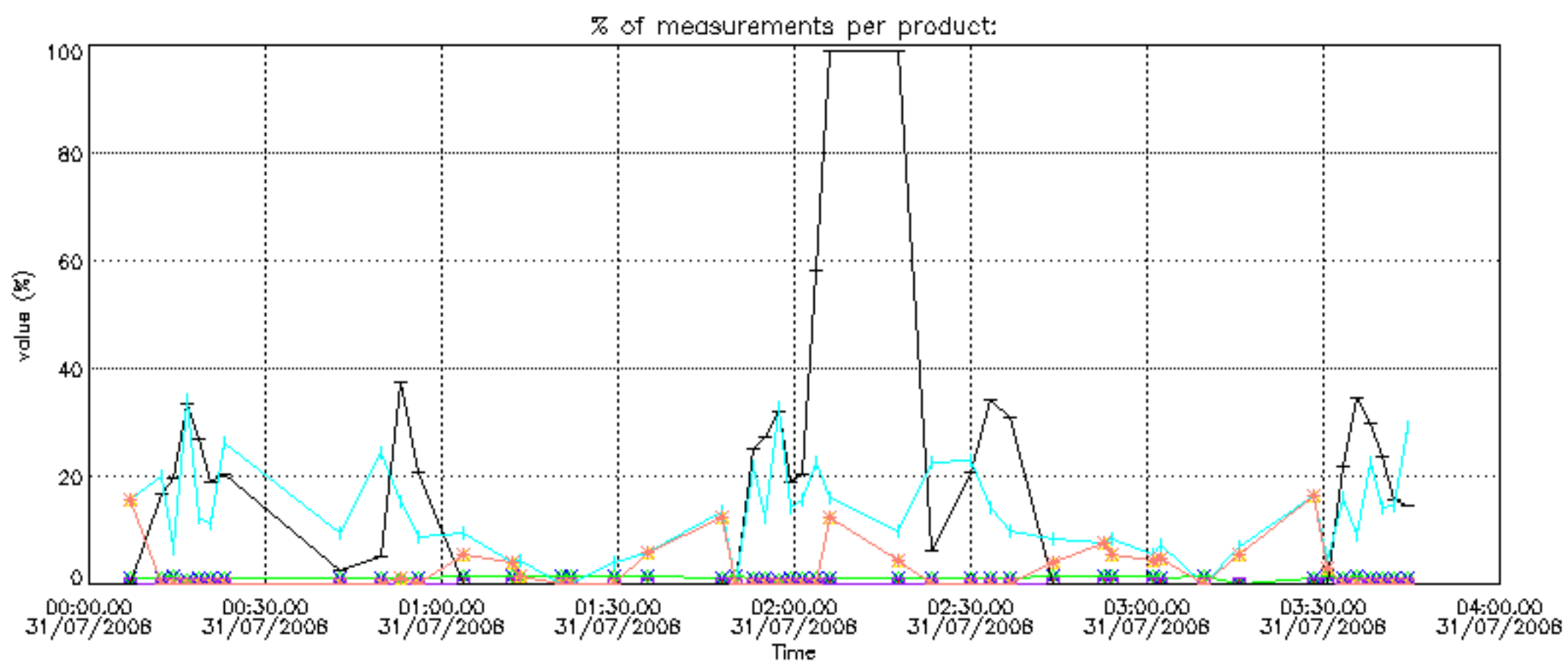
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	31-JUL-2008 00:07:01
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080711_132227_20080708_000000_20100101_000000	1	31-JUL-2008 00:07:01
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	31-JUL-2008 00:07:01
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	31-JUL-2008 00:07:01
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	31-JUL-2008 00:07:01
ECMWF_FILE	AUX_ECF_AXNECM20080730_072113_20080730_210000_20080731_090000	1	31-JUL-2008 00:07:01
ECMWF_FILE	AUX_ECF_AXNECM20080730_190113_20080731_030000_20080731_150000	41	31-JUL-2008 03:28:13
OPTIONAL_ECMWF_FILE	MISSING	1	31-JUL-2008 00:07:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080730_205656_000060572070_00429_33549_6056.N1	1	31-JUL-2008 00:07:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080730_224311_000057382070_00430_33550_6057.N1	8	31-JUL-2008 00:25:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080731_002408_000054192070_00431_33551_6058.N1	27	31-JUL-2008 02:03:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080731_015947_000044632070_00432_33552_6059.N1	41	31-JUL-2008 03:28:13

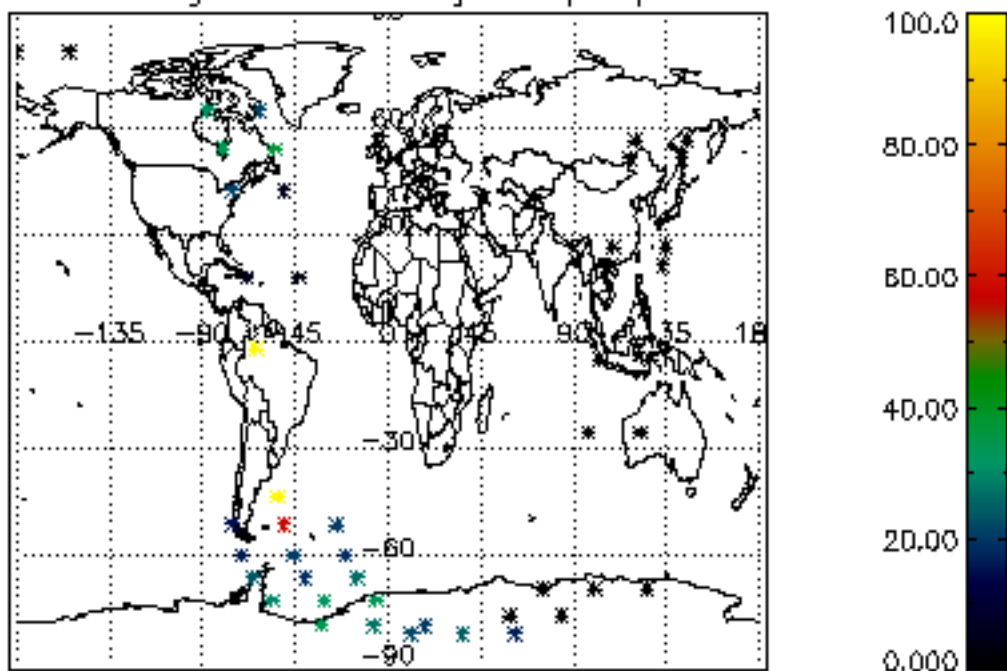




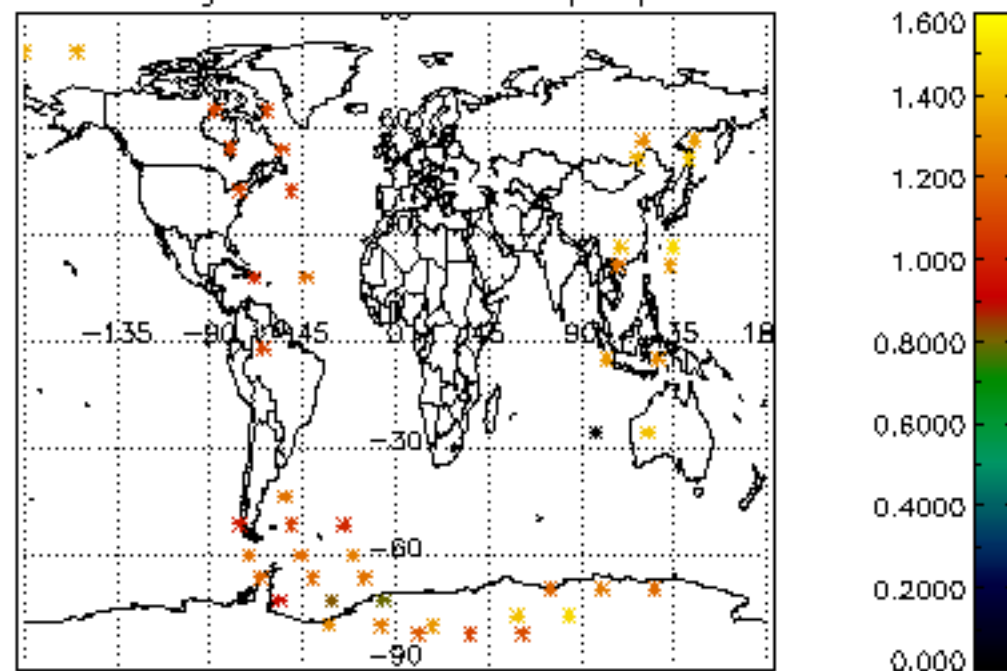




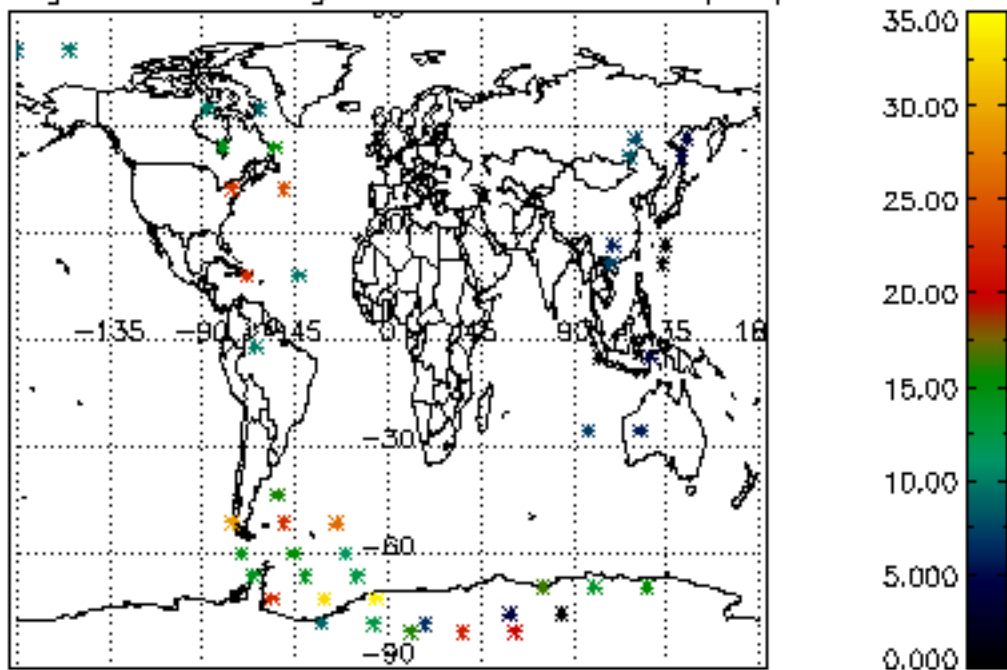
Percentage of cosmic ray hits per profile



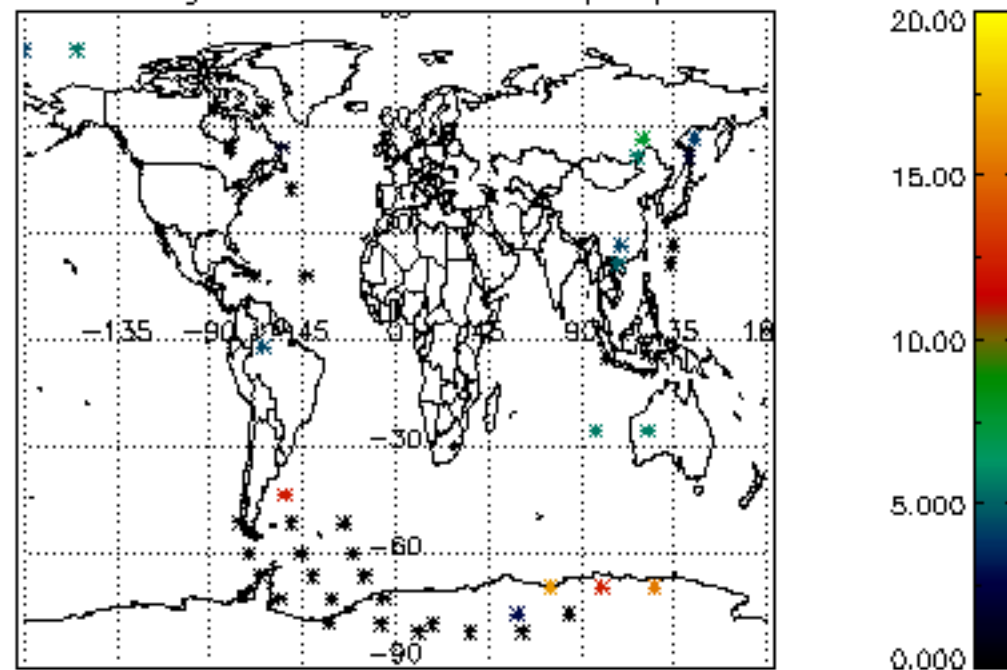
Percentage of datation errors per profile



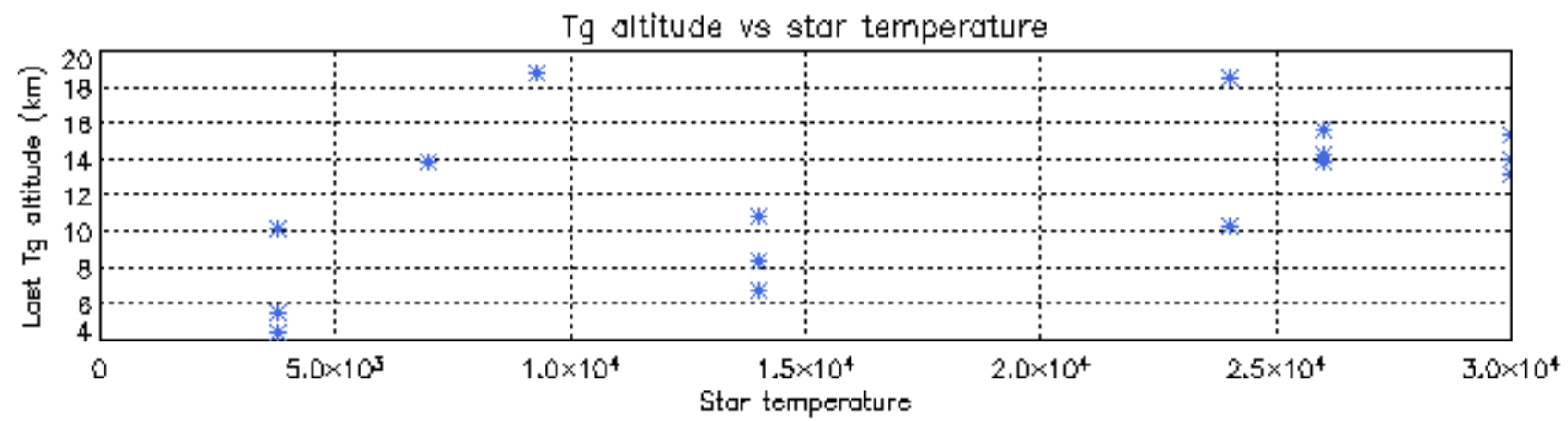
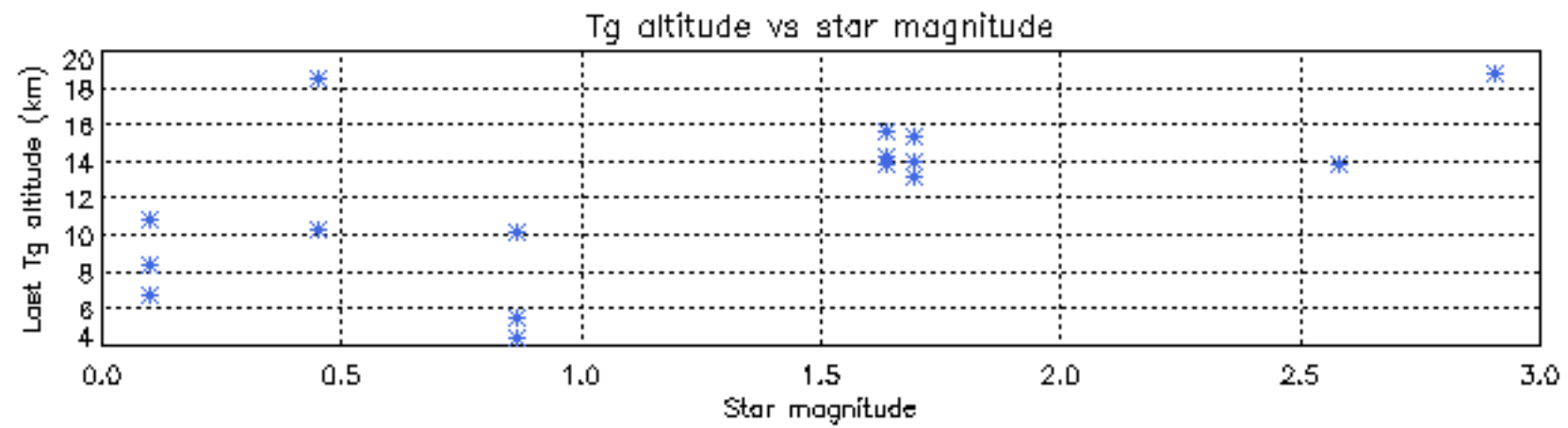
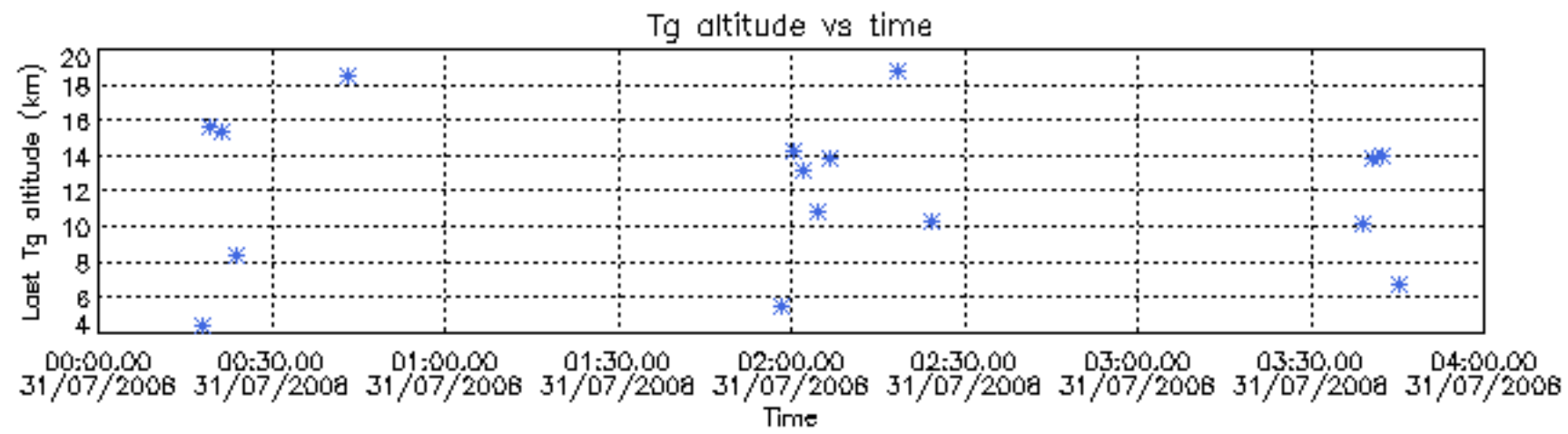
Percentage of star falling outside central band per profile



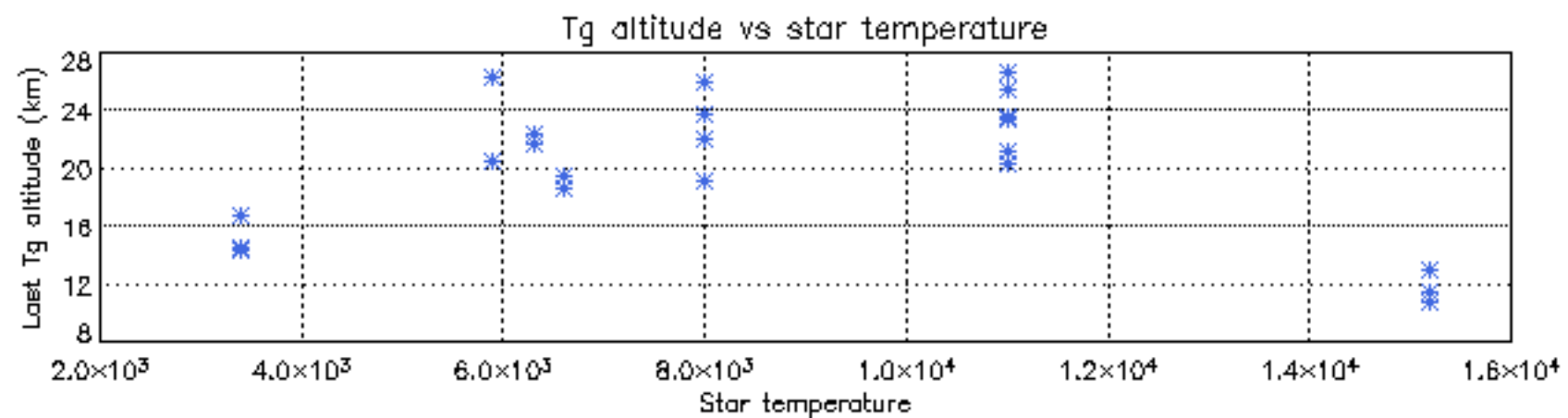
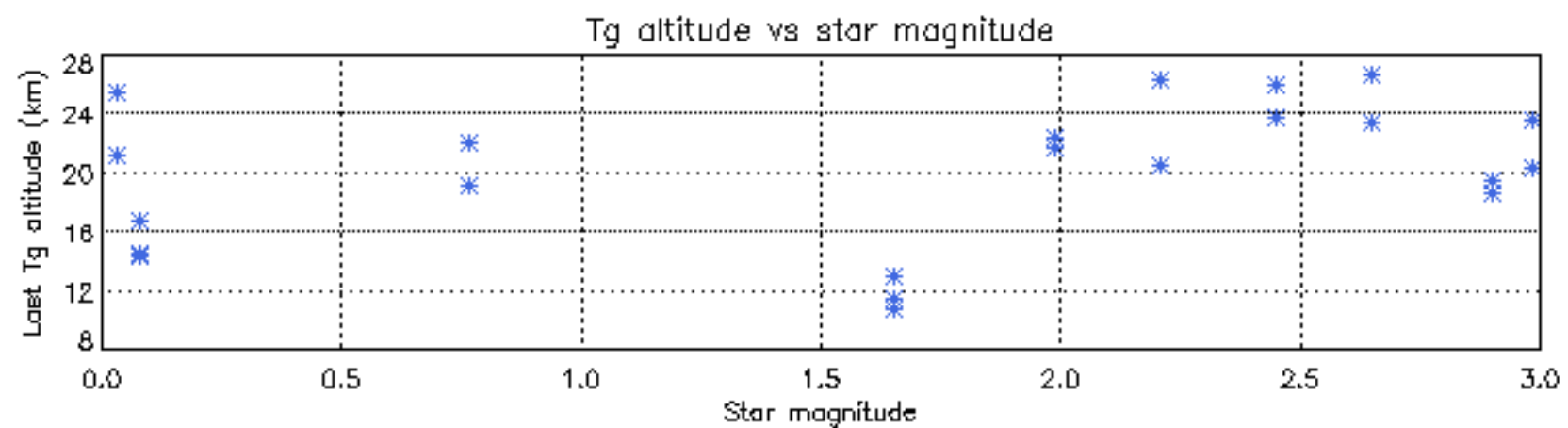
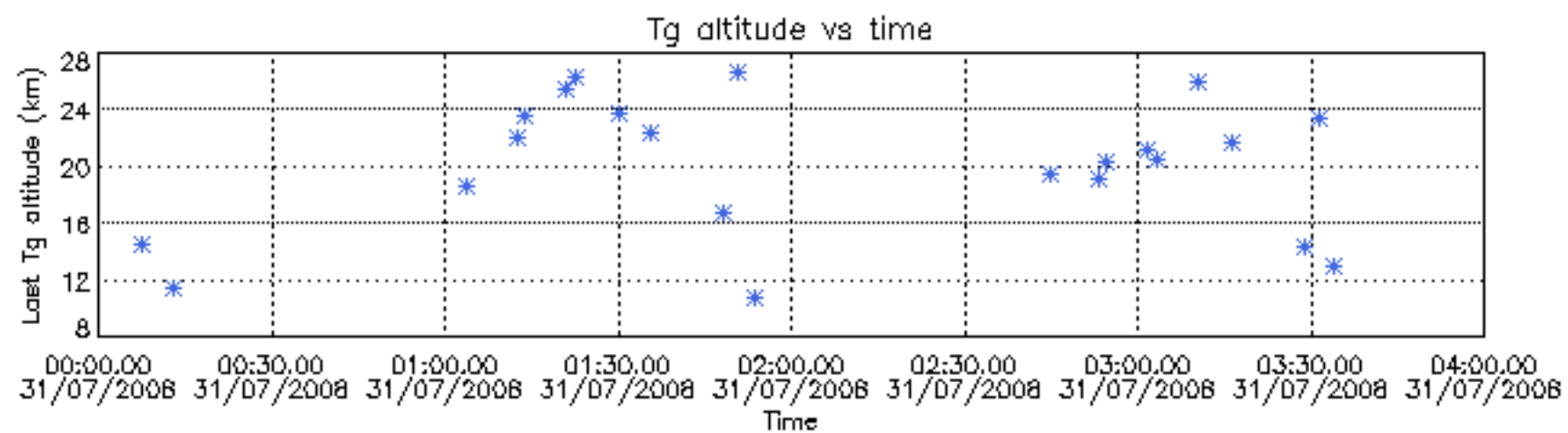
Percentage of saturation errors per profile

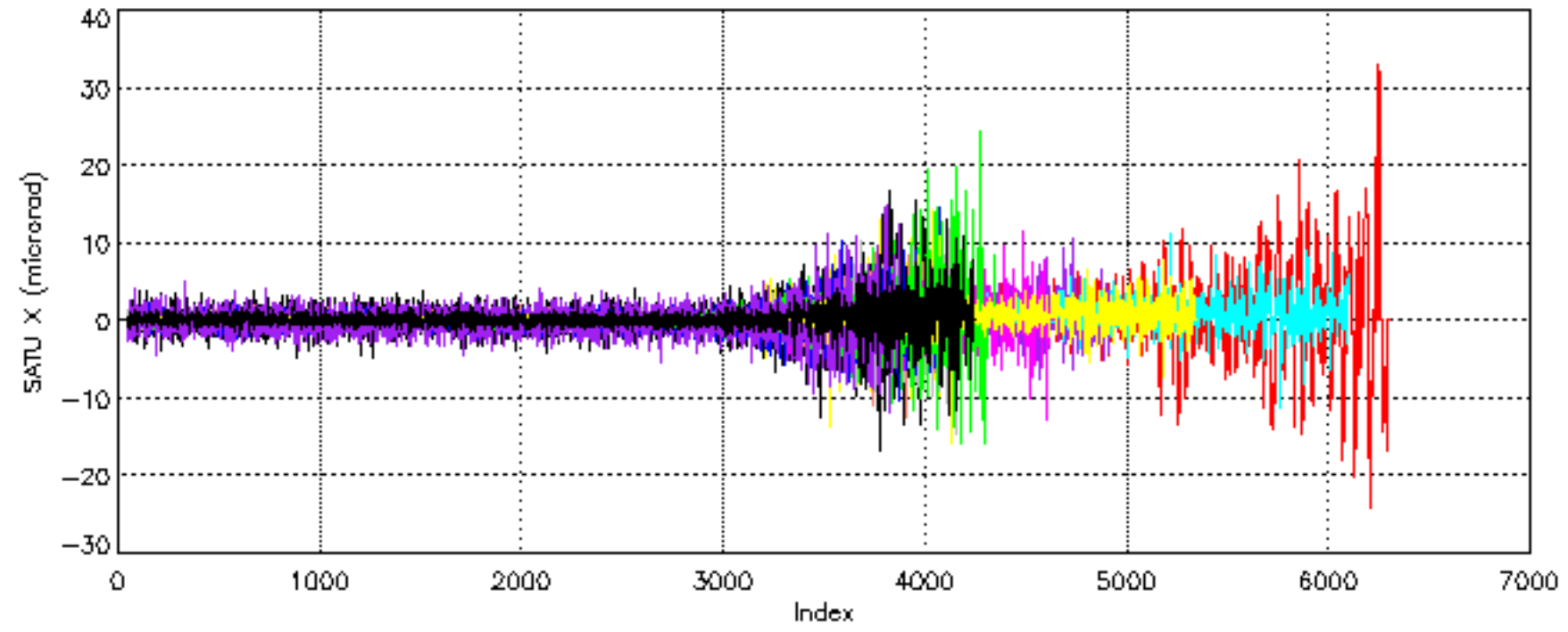


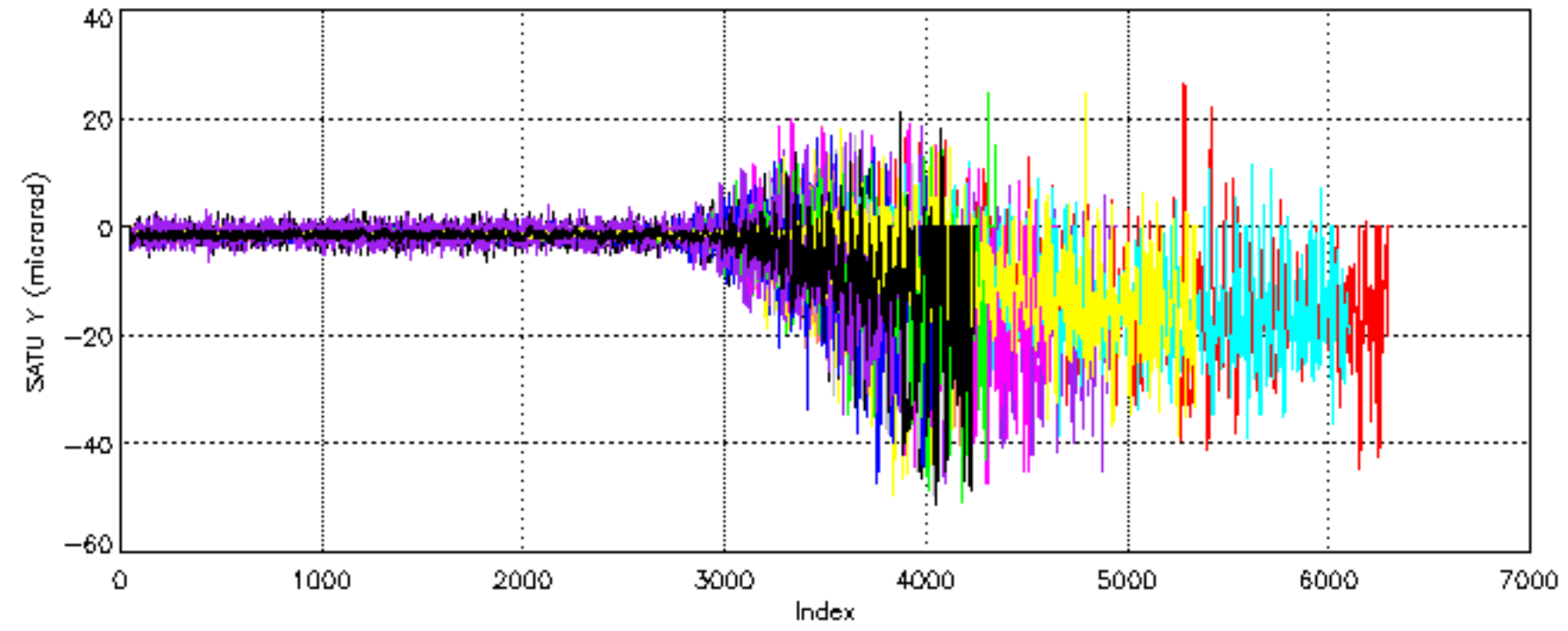
Tangent altitude at which the star is lost

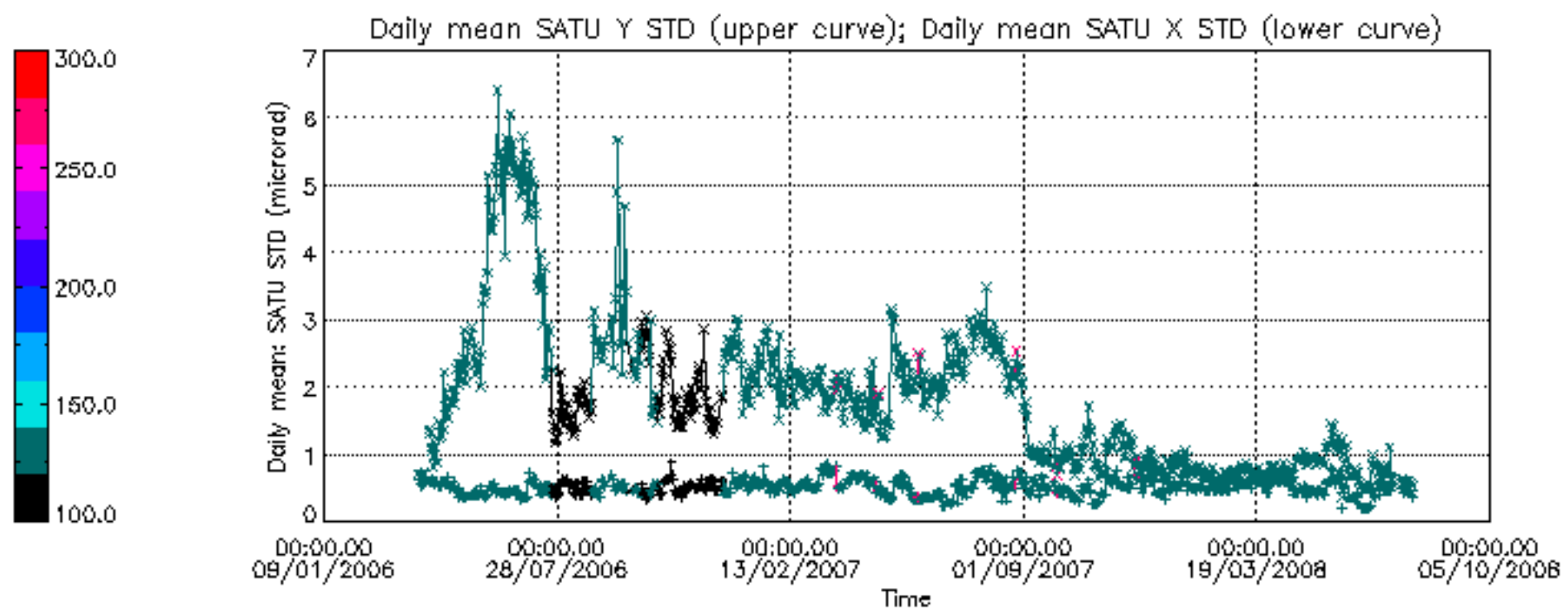


Tangent altitude at which the star is lost









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 3; 1274.5; 01-JUL-2008 20:08:33; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33134
 4; 1359.7; 01-JUL-2008 20:09:58; Dark ; 42.5; 116; 19Del Sgr ; 2.70; 4100;occ; 85; 0;33134
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 6; 1751.3; 01-JUL-2008 20:16:29; Bright; 25.0; 98; 13Zet Oph ; 2.57; 30000;occ; 50; 0;33134
 7; 1982.1; 01-JUL-2008 20:20:20; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;33134
 8; 2121.6; 01-JUL-2008 20:22:40; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33134
 9; 2286.4; 01-JUL-2008 20:25:24; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33134
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 11; 2806.8; 01-JUL-2008 20:34:05; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33134
 12; 2953.3; 01-JUL-2008 20:36:31; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33134
 13; 3194.0; 01-JUL-2008 20:40:32; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;33134
 14; 3445.6; 01-JUL-2008 20:44:44; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;33134
 15; 4062.2; 01-JUL-2008 20:55:00; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;33134
 16; 4166.6; 01-JUL-2008 20:56:45; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;33134
 17; 4295.5; 01-JUL-2008 20:58:54; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;33134
 18; 4582.1; 01-JUL-2008 21:03:40; Dark ; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;33134
 19; 4985.0; 01-JUL-2008 21:10:23; Dark ; 43.0; 94; 92Alp Cet ; 2.53; 3100;occ; 86; 0;33134
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 4; 44.9; 01-JUL-2008 21:28:39; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;33135
 5; 320.1; 01-JUL-2008 21:33:14; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;33135
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 7; 754.0; 01-JUL-2008 21:40:28; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;33135
 8; 1066.4; 01-JUL-2008 21:45:40; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;33135
 9; 1175.0; 01-JUL-2008 21:47:29; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;33135
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 13; 1982.0; 01-JUL-2008 22:00:56; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;33135
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 19; 3194.2; 01-JUL-2008 22:21:08; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;33135
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 23; 4295.6; 01-JUL-2008 22:39:29; Bright; 38.5; 79; 26Bet Per ; 2.31; 13100;occ; 77; 0;33135
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 4; 320.2; 01-JUL-2008 23:13:50; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;33136
 5; 494.6; 01-JUL-2008 23:16:44; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33136
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 8; 1175.1; 01-JUL-2008 23:28:05; Dark ; 40.5; 40; The Sco ; 1.86; 7100;occ; 81; 0;33136
 9; 1274.9; 01-JUL-2008 23:29:45; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;33136
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 15; 2449.7; 01-JUL-2008 23:49:19; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87; 0;33136
 16; 2806.6; 01-JUL-2008 23:55:16; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33136
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 18; 3194.3; 02-JUL-2008 00:01:44; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33136
 19; 3445.5; 02-JUL-2008 00:05:55; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;33136

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22; 4295.6; 02-JUL-2008 00:20:05; Bright; 45.0; 79; 26Bet Per ; 2.31; 13100;occ; 90; 0;33136
23; 4582.5; 02-JUL-2008 00:24:52; Dark ; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;33136
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 2; 490.2; 01-JUL-2008 09:51:53; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33128
 3; 751.1; 01-JUL-2008 09:56:13; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33128
 4; 1065.9; 01-JUL-2008 10:01:28; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;33128
 5; 1174.1; 01-JUL-2008 10:03:17; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33128
 6; 1274.0; 01-JUL-2008 10:04:56; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33128
 7; 1358.9; 01-JUL-2008 10:06:21; Dark ; 46.5; 116; 19Del Sgr ; 2.70; 4100;occ; 93; 0;33128
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 2; 1751.0; 01-JUL-2008 10:12:53; Bright; 34.0; 98; 13Zet Oph ; 2.57; 30000;occ; 68; 0;33128
 3; 1983.1; 01-JUL-2008 10:16:45; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;33128
 4; 2122.5; 01-JUL-2008 10:19:05; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33128
 5; 2286.2; 01-JUL-2008 10:21:49; Bright; 33.5; 127; 27Bet Her ; 2.78; 4700;occ; 67; 0;33128
 6; 2449.8; 01-JUL-2008 10:24:32; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33128
 7; 2808.4; 01-JUL-2008 10:30:31; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33128
 8; 2953.8; 01-JUL-2008 10:32:56; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;33128
 9; 3194.0; 01-JUL-2008 10:36:56; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;33128
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 6; 2449.1; 01-JUL-2008 12:05:07; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;33129
 7; 2807.6; 01-JUL-2008 12:11:06; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;33129
 8; 2953.0; 01-JUL-2008 12:13:31; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;33129
 9; 3193.3; 01-JUL-2008 12:17:32; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33129
10; 3445.5; 01-JUL-2008 12:21:44; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33129
11; 4062.4; 01-JUL-2008 12:32:01; Bright; 36.0; 160; 23Gam Per ; 2.93; 4700;occ; 72; 0;33129
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 17; 6713.1; 25-JUL-2008 10:41:00; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33471
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 19; 7433.3; 25-JUL-2008 10:53:00; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;33471
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 5; 3442.3; 25-JUL-2008 11:27:05; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33472
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 7; 4434.5; 25-JUL-2008 11:43:37; Bright; 40.5; 114; 3Iot Aur ; 2.69; 4600;occ; 81; 0;33472
 8; 4758.0; 25-JUL-2008 11:49:01; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;33472
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 11; 5137.5; 25-JUL-2008 11:55:20; Dark ; 42.5; 7; 19Bet Ori ; 0.10; 14000;occ; 85; 0;33472
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 19; 7433.5; 25-JUL-2008 12:33:36; Dark ; 44.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 88; 0;33472
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 3; 2718.7; 25-JUL-2008 12:55:37; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;33473
 4; 2811.3; 25-JUL-2008 12:57:10; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;33473
 5; 3442.2; 25-JUL-2008 13:07:41; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33473
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 8; 4758.3; 25-JUL-2008 13:29:37; Dark ; 59.0; 13; 87Alp Tau ; 0.87; 3800;occ; 118; 0;33473
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 12; 5274.9; 25-JUL-2008 13:38:13; Dark ; 38.5; 101; 11Alp Lep ; 2.58; 7000;occ; 77; 0;33473
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 17; 6714.1; 25-JUL-2008 14:02:13; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33473
 18; 6906.1; 25-JUL-2008 14:05:25; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;33473
 19; 7433.7; 25-JUL-2008 14:14:12; Dark ; 39.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 78; 0;33473
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 4; 2718.4; 25-JUL-2008 14:36:13; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;33474
 5; 2811.6; 25-JUL-2008 14:37:46; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;33474
 6; 3442.3; 25-JUL-2008 14:48:17; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33474
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 13; 5275.3; 25-JUL-2008 15:18:50; Dark ; 39.5; 101; 11Alp Lep ; 2.58; 7000;occ; 79; 0;33474
 14; 5677.8; 25-JUL-2008 15:25:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33474

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17; 6284.3; 25-JUL-2008 17:16:15; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33475
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19; 6715.2; 25-JUL-2008 17:23:25; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33475
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19; 6716.0; 25-JUL-2008 20:44:38; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33477
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13; 2654.3; 31-JUL-2008 03:02:27; Bright; 41.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 82; 0;33553
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12; 301.9; 31-JUL-2008 05:44:26; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;33555
13; 715.2; 31-JUL-2008 05:51:20; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33555

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19; 2653.6; 31-JUL-2008 06:23:38; Bright; 39.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 79; 0;33555
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