

GOMOS Daily Report 29-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	04AUG2008 13:27:54
Data source version	GOMOS/5.00
Start time of products	29-07-2008 (29JUL2008 00:00:00)
Stop time of products	30-07-2008 (30JUL2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

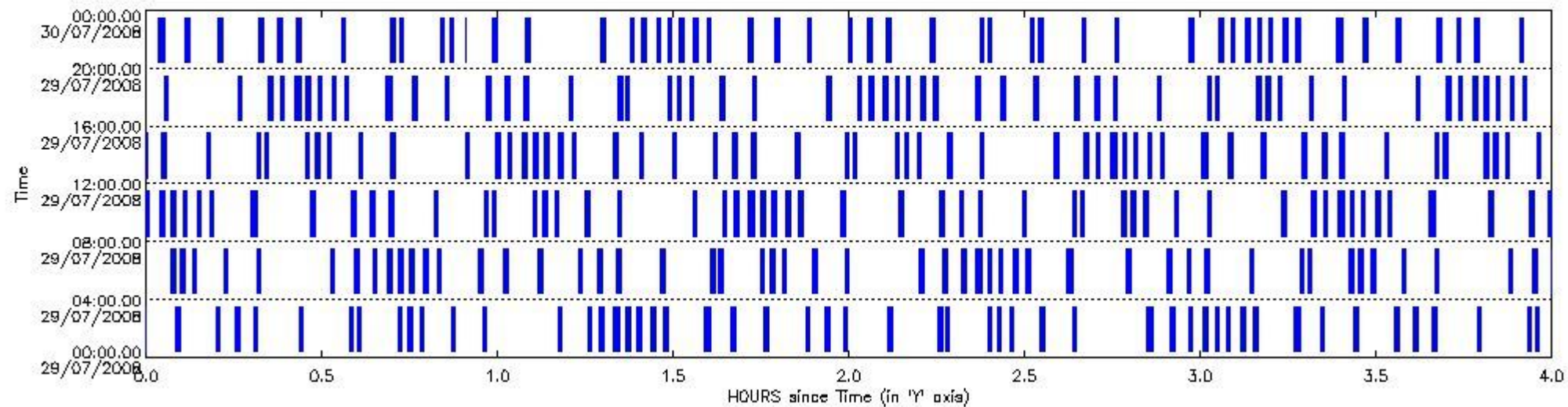
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

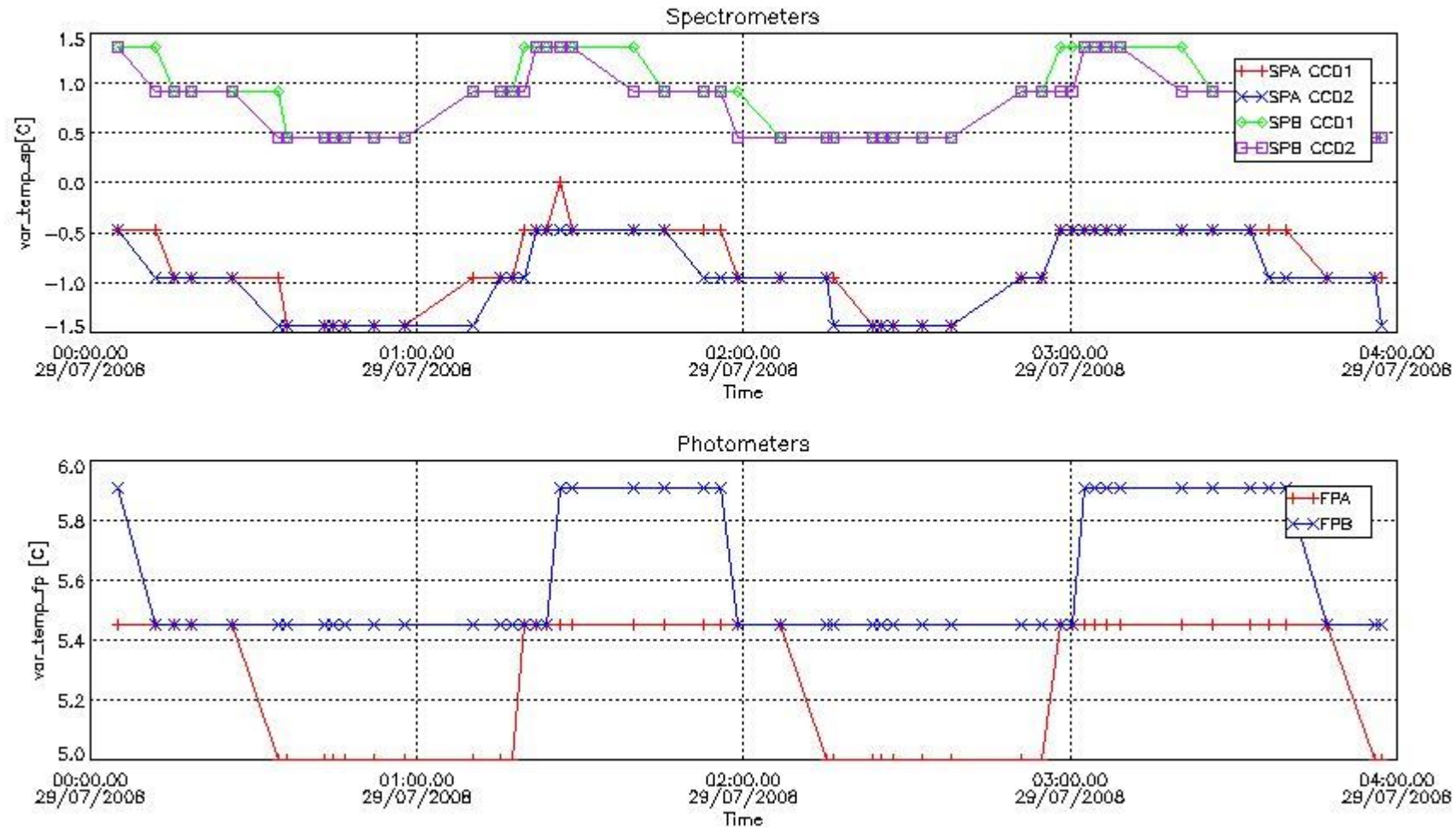
No missing products.

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_1PNPDE20080729_000455_000000462070_00403_33523_4719.N1	29-JUL-2008 00:04:55	Dark	46.000	9	Alp Eri	0.45300	24000.	92	33523	No
2	GOM_TRA_1PNPDE20080729_001156_000000412070_00403_33523_4720.N1	29-JUL-2008 00:11:56	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	33523	No
3	GOM_TRA_1PNPDE20080729_001513_000000442070_00403_33523_4721.N1	29-JUL-2008 00:15:13	Straylight	43.500	31	Alp Gru	1.7340	15200.	87	33523	No
4	GOM_TRA_1PNPDE20080729_001823_000000352070_00403_33523_4722.N1	29-JUL-2008 00:18:23	Straylight	35.000	172	Gam Gru	3.0030	13100.	70	33523	No
5	GOM_TRA_1PNPDE20080729_002604_000000362070_00403_33523_4723.N1	29-JUL-2008 00:26:04	Bright	36.000	155	41Pi Sgr	2.9000	6600.0	72	33523	No
6	GOM_TRA_1PNPDE20080729_003438_000000382070_00403_33523_4724.N1	29-JUL-2008 00:34:38	Bright	38.000	11	53Alp Aql	0.76500	8000.0	76	33523	No
7	GOM_TRA_1PNPDE20080729_003558_000000362070_00403_33523_4725.N1	29-JUL-2008 00:35:58	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	33523	No
8	GOM_TRA_1PNPDE20080729_004303_000000382070_00403_33523_4726.N1	29-JUL-2008 00:43:03	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	33523	No
9	GOM_TRA_1PNPDE20080729_004442_000000392070_00403_33523_4727.N1	29-JUL-2008 00:44:42	Bright	39.000	66	37Gam Cyg	2.2080	5900.0	78	33523	No
10	GOM_TRA_1PNPDE20080729_004646_000000382070_00403_33523_4728.N1	29-JUL-2008 00:46:46	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	33523	No
11	GOM_TRA_1PNPDE20080729_005203_000000372070_00403_33523_4729.N1	29-JUL-2008 00:52:03	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	33523	No
12	GOM_TRA_1PNPDE20080729_005736_000000332070_00403_33523_4730.N1	29-JUL-2008 00:57:36	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	33523	No

13	GOM_TRA_1PNPDE20080729_011015_000000432070_00403_33523_4731.N1	29-JUL-2008 01:10:15	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	33523	No
14	GOM_TRA_1PNPDE20080729_011523_000000382070_00403_33523_4732.N1	29-JUL-2008 01:15:23	Bright	38.000	28	12Bet Tau	1.6500	15200.	76	33523	No
15	GOM_TRA_1PNPDE20080729_011726_000000372070_00403_33523_4733.N1	29-JUL-2008 01:17:26	Twilight	36.500	176	23Zet Tau	3.0200	22000.	73	33523	No
16	GOM_TRA_1PNPDE20080729_011950_000000572070_00403_33523_4734.N1	29-JUL-2008 01:19:50	Dark	57.000	13	87Alp Tau	0.86700	3800.0	114	33523	No
17	GOM_TRA_1PNPDE20080729_012152_000000422070_00403_33523_4735.N1	29-JUL-2008 01:21:52	Dark	42.000	27	24Gam Ori	1.6360	26000.	84	33523	No
18	GOM_TRA_1PNPDE20080729_012347_000000392070_00403_33523_4736.N1	29-JUL-2008 01:23:47	Dark	39.000	30	46Eps Ori	1.6940	30000.	78	33523	No
19	GOM_TRA_1PNPDE20080729_012611_000000532070_00403_33523_4888.N1	29-JUL-2008 01:26:11	Dark	53.000	7	19Bet Ori	0.10000	14000.	106	33523	Yes
20	GOM_TRA_1PNPDE20080729_012825_000000412070_00403_33523_4889.N1	29-JUL-2008 01:28:25	Dark	40.500	101	11Alp Lep	2.5820	7000.0	81	33523	No
21	GOM_TRA_1PNPDE20080729_013950_000000442070_00403_33523_4890.N1	29-JUL-2008 01:39:50	Dark	44.000	157	The1Eri	2.9060	9300.0	88	33523	No
22	GOM_TRA_1PNPDE20080729_014531_000000442070_00404_33524_4891.N1	29-JUL-2008 01:45:31	Dark	44.000	9	Alp Eri	0.45300	24000.	88	33524	No
23	GOM_TRA_1PNPDE20080729_015232_000000482070_00404_33524_4892.N1	29-JUL-2008 01:52:32	Straylight	48.000	148	Alp Tuc	2.8780	4100.0	96	33524	No
24	GOM_TRA_1PNPDE20080729_015549_000000462070_00404_33524_4893.N1	29-JUL-2008 01:55:49	Straylight	45.500	31	Alp Gru	1.7340	15200.	91	33524	No
25	GOM_TRA_1PNPDE20080729_015900_000000392070_00404_33524_4894.N1	29-JUL-2008 01:59:00	Straylight	39.000	172	Gam Gru	3.0030	13100.	78	33524	No
26	GOM_TRA_1PNPDE20080729_020641_000000372070_00404_33524_4895.N1	29-JUL-2008 02:06:41	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	33524	No
27	GOM_TRA_1PNPDE20080729_021513_000000402070_00404_33524_4896.N1	29-JUL-2008 02:15:13	Bright	40.000	11	53Alp Aql	0.76500	8000.0	80	33524	No
28	GOM_TRA_1PNPDE20080729_021634_000000352070_00404_33524_4897.N1	29-JUL-2008 02:16:34	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	33524	No
29	GOM_TRA_1PNPDE20080729_022339_000000392070_00404_33524_4898.N1	29-JUL-2008 02:23:39	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	33524	No
30	GOM_TRA_1PNPDE20080729_022517_000000422070_00404_33524_4899.N1	29-JUL-2008 02:25:17	Bright	42.000	66	37Gam Cyg	2.2080	5900.0	84	33524	No
31	GOM_TRA_1PNPDE20080729_022722_000000372070_00404_33524_4900.N1	29-JUL-2008 02:27:22	Bright	36.500	69	33Gam Dra	2.2310	3800.0	73	33524	No
32	GOM_TRA_1PNPDE20080729_023239_000000402070_00404_33524_4901.N1	29-JUL-2008 02:32:39	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	33524	No
33	GOM_TRA_1PNPDE20080729_023812_000000352070_00404_33524_4902.N1	29-JUL-2008 02:38:12	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	33524	No
34	GOM_TRA_1PNPDE20080729_025051_000000552070_00404_33524_5035.N1	29-JUL-2008 02:50:51	Bright	55.000	6	13Alp Aur	0.080000	3400.0	110	33524	No
35	GOM_TRA_1PNPDE20080729_025452_000000442070_00404_33524_5036.N1	29-JUL-2008 02:54:52	Bright	44.000	114	31ot Aur	2.6930	4600.0	88	33524	No
36	GOM_TRA_1PNPDE20080729_025802_000000392070_00404_33524_5037.N1	29-JUL-2008 02:58:02	Twilight	39.000	176	23Zet Tau	3.0200	22000.	78	33524	No
37	GOM_TRA_1PNPDE20080729_030026_000000562070_00404_33524_5038.N1	29-JUL-2008 03:00:26	Dark	56.000	13	87Alp Tau	0.86700	3800.0	112	33524	No
38	GOM_TRA_1PNPDE20080729_030228_000000402070_00404_33524_5039.N1	29-JUL-2008 03:02:28	Dark	39.500	27	24Gam Ori	1.6360	26000.	79	33524	No
39	GOM_TRA_1PNPDE20080729_030423_000000392070_00404_33524_5040.N1	29-JUL-2008 03:04:23	Dark	39.000	30	46Eps Ori	1.6940	30000.	78	33524	No
40	GOM_TRA_1PNPDE20080729_030648_000000462070_00404_33524_5041.N1	29-JUL-2008 03:06:48	Dark	45.500	7	19Bet Ori	0.10000	14000.	91	33524	No
41	GOM_TRA_1PNPDE20080729_030901_000000412070_00404_33524_5042.N1	29-JUL-2008 03:09:01	Dark	40.500	101	11Alp Lep	2.5820	7000.0	81	33524	No
42	GOM_TRA_1PNPDE20080729_032027_000000452070_00404_33524_5043.N1	29-JUL-2008 03:20:27	Dark	44.500	157	The1Eri	2.9060	9300.0	89	33524	No
43	GOM_TRA_1PNPDE20080729_032608_000000452070_00405_33525_5044.N1	29-JUL-2008 03:26:08	Dark	45.000	9	Alp Eri	0.45300	24000.	90	33525	No
44	GOM_TRA_1PNPDE20080729_033308_000000412070_00405_33525_5045.N1	29-JUL-2008 03:33:08	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	33525	No
45	GOM_TRA_1PNPDE20080729_033626_000000462070_00405_33525_5046.N1	29-JUL-2008 03:36:26	Straylight	46.000	31	Alp Gru	1.7340	15200.	92	33525	No
46	GOM_TRA_1PNPDE20080729_033936_000000392070_00405_33525_5047.N1	29-JUL-2008 03:39:36	Straylight	39.000	172	Gam Gru	3.0030	13100.	78	33525	No
47	GOM_TRA_1PNPDE20080729_034717_000000382070_00405_33525_5048.N1	29-JUL-2008 03:47:17	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	33525	No
48	GOM_TRA_1PNPDE20080729_035549_000000402070_00405_33525_5049.N1	29-JUL-2008 03:55:49	Bright	40.000	11	53Alp Aql	0.76500	8000.0	80	33525	No
49	GOM_TRA_1PNPDE20080729_035710_000000372070_00405_33525_5050.N1	29-JUL-2008 03:57:10	Bright	36.500	168	17Zet Aql	2.9860	11000.	73	33525	No

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



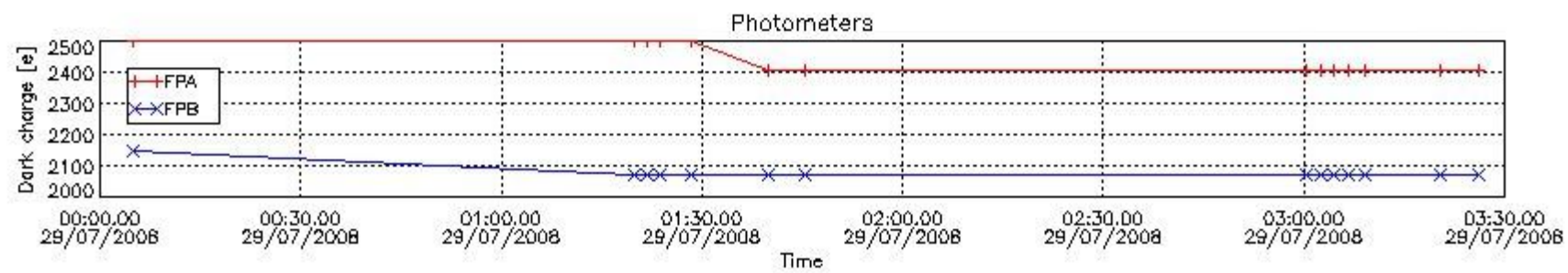
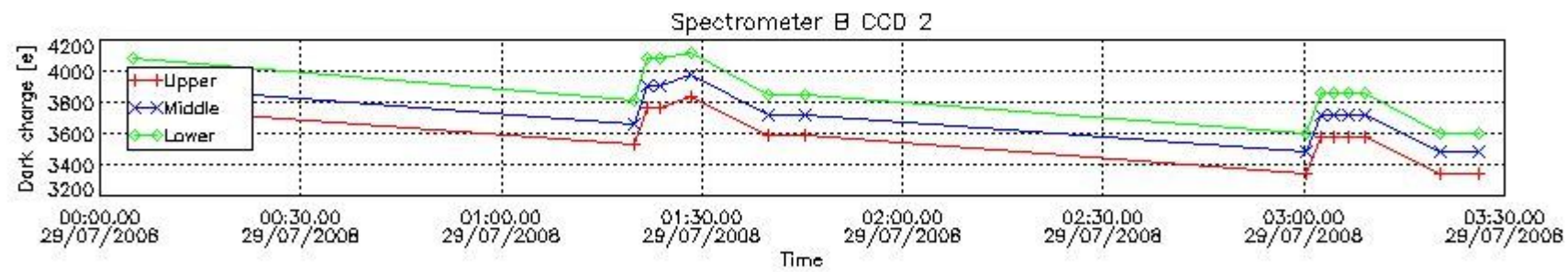
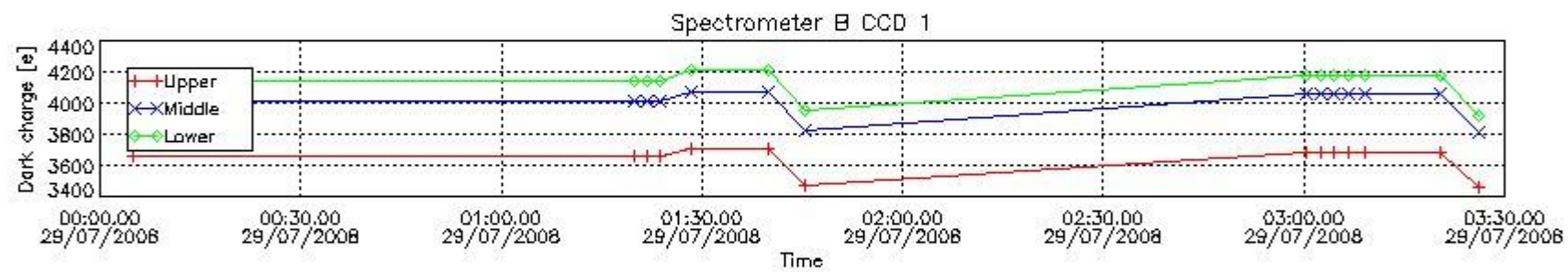
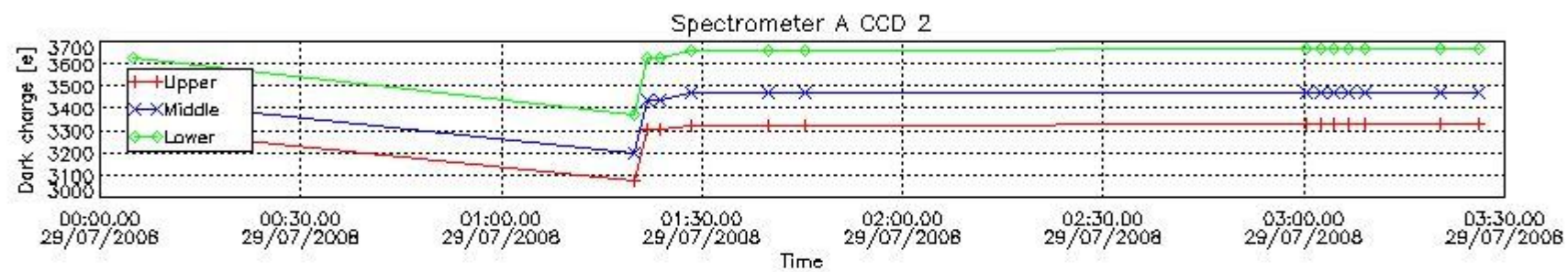
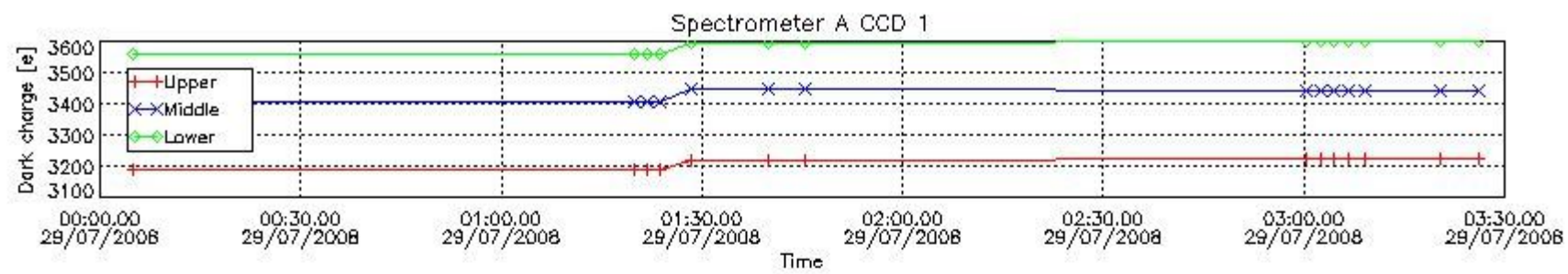
4. Overview of dark signal processing per product

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



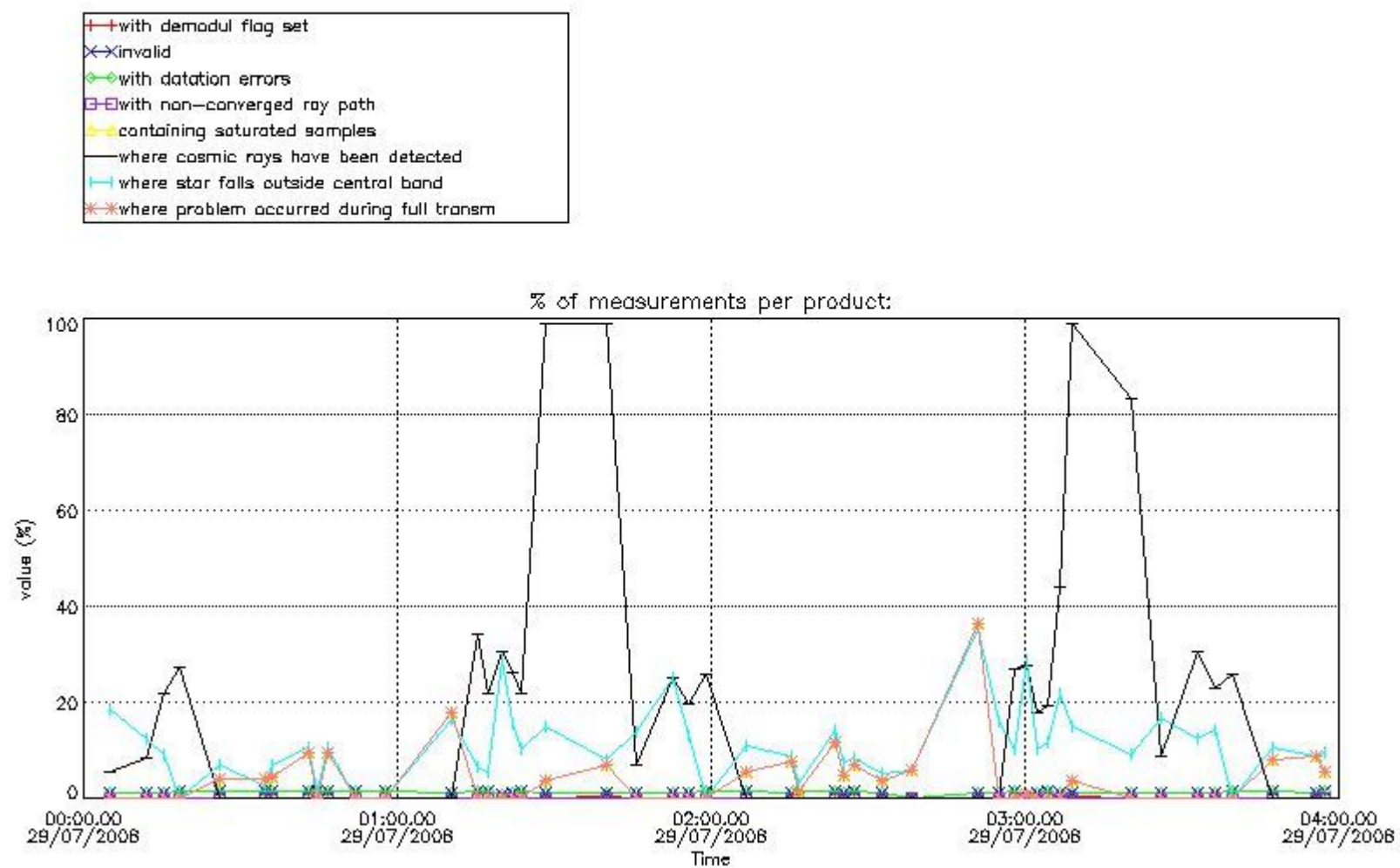
5. Demodulation flag and quality information monitoring

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.

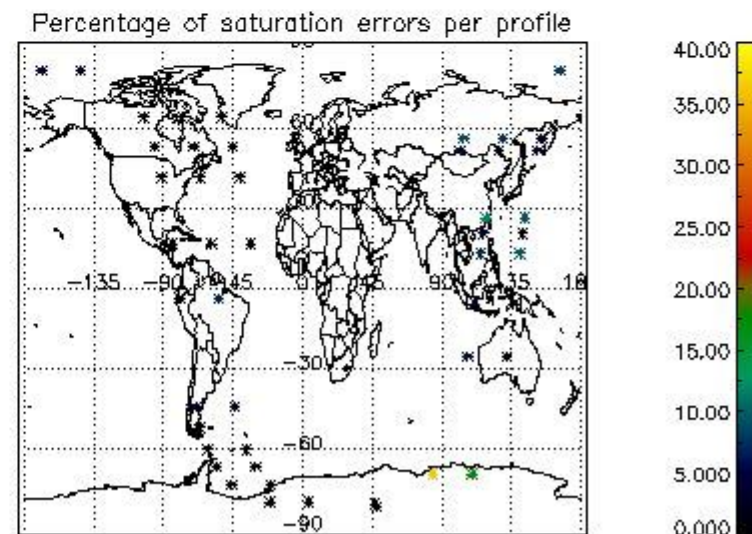
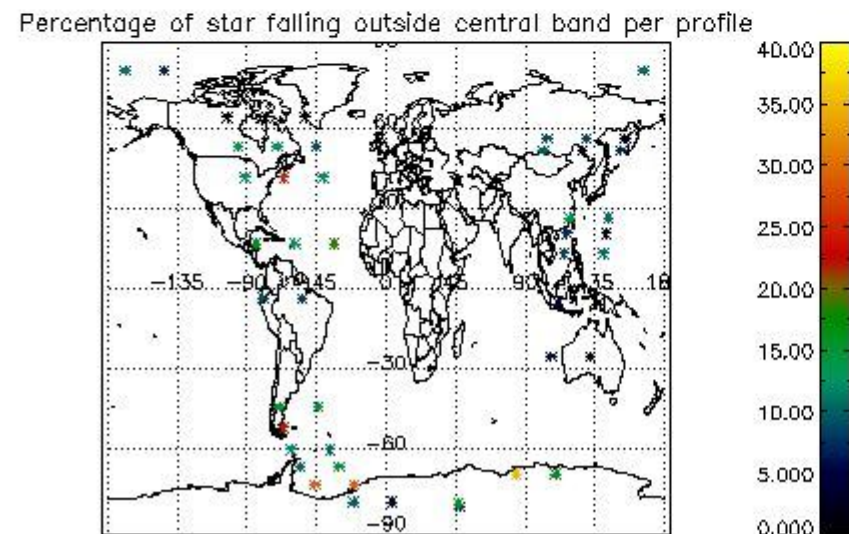
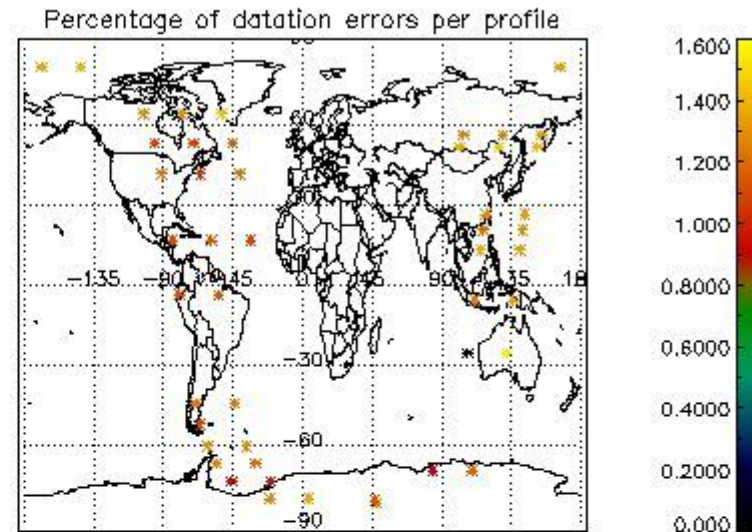
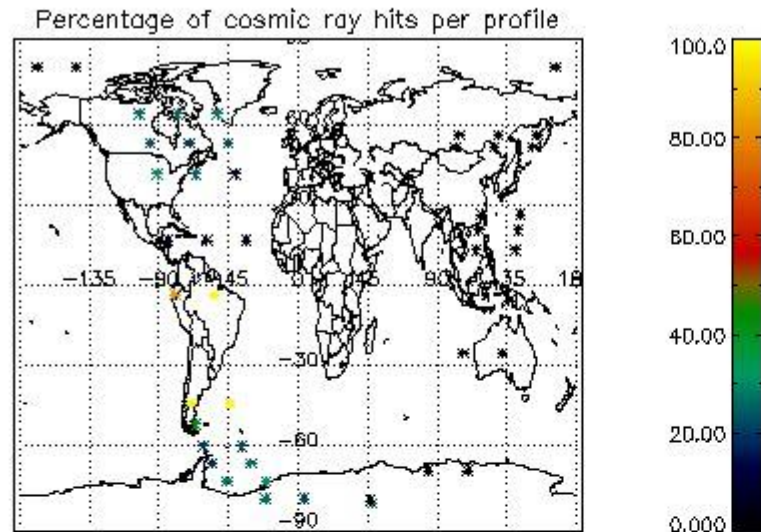
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.6667 %
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)



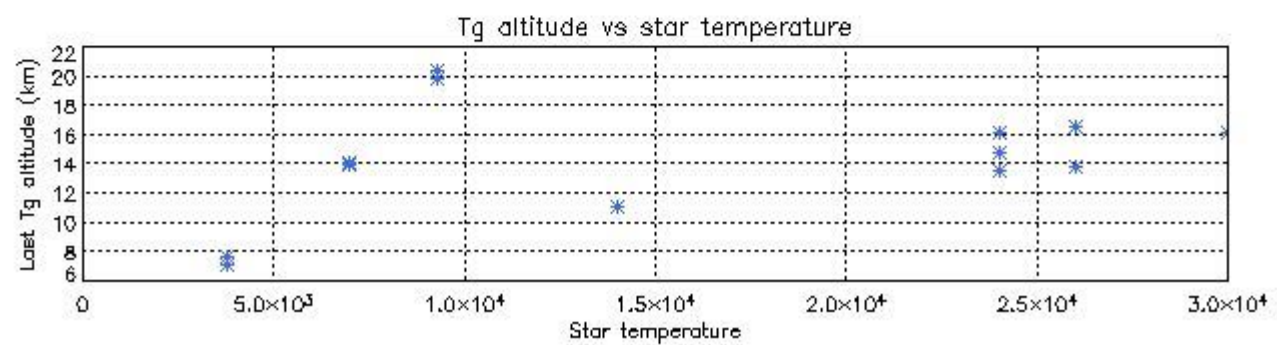
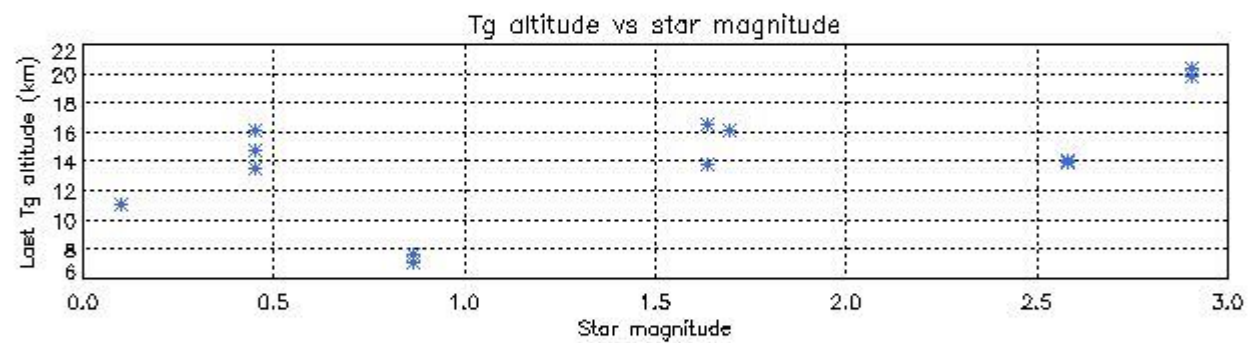
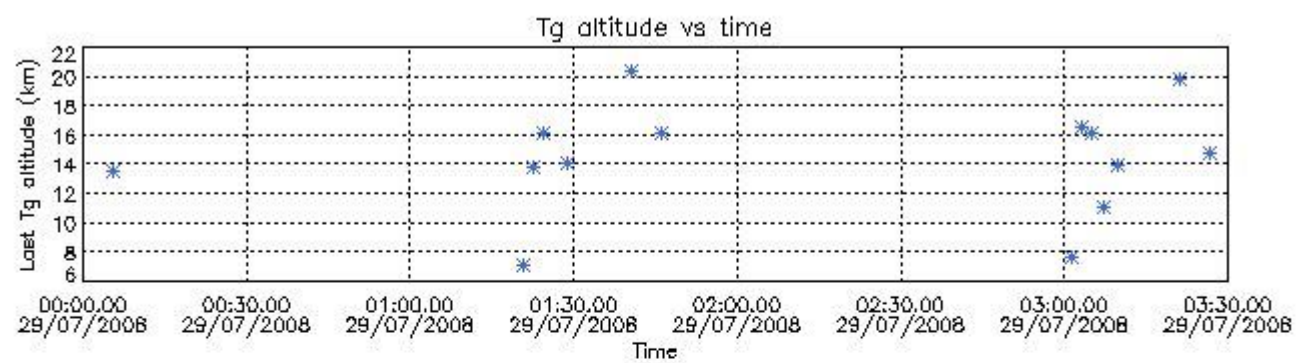
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.342	19.507	NaN
St. deviation:	3.8251	5.1014	NaN
Maximum:	20.377	28.512	NaN
Minimum:	7.1078	4.0091	NaN
Number of data:	14.000	23.000	NaN

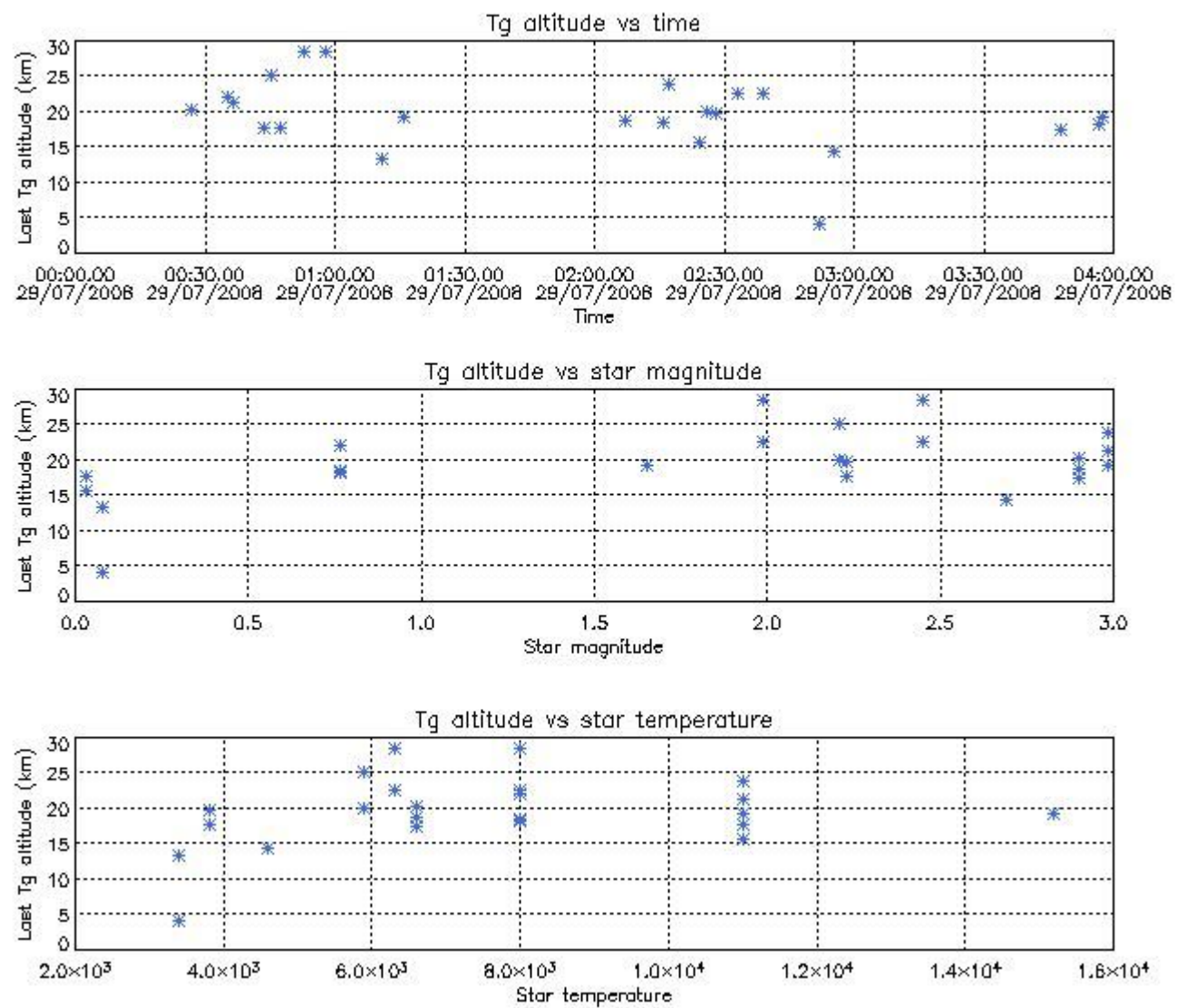
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

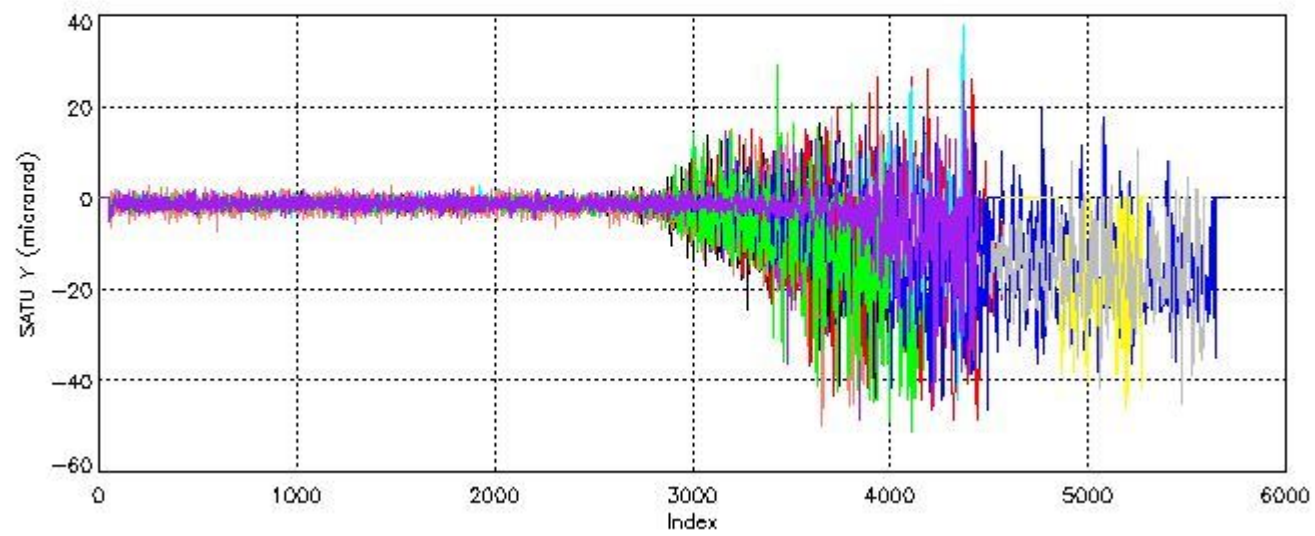
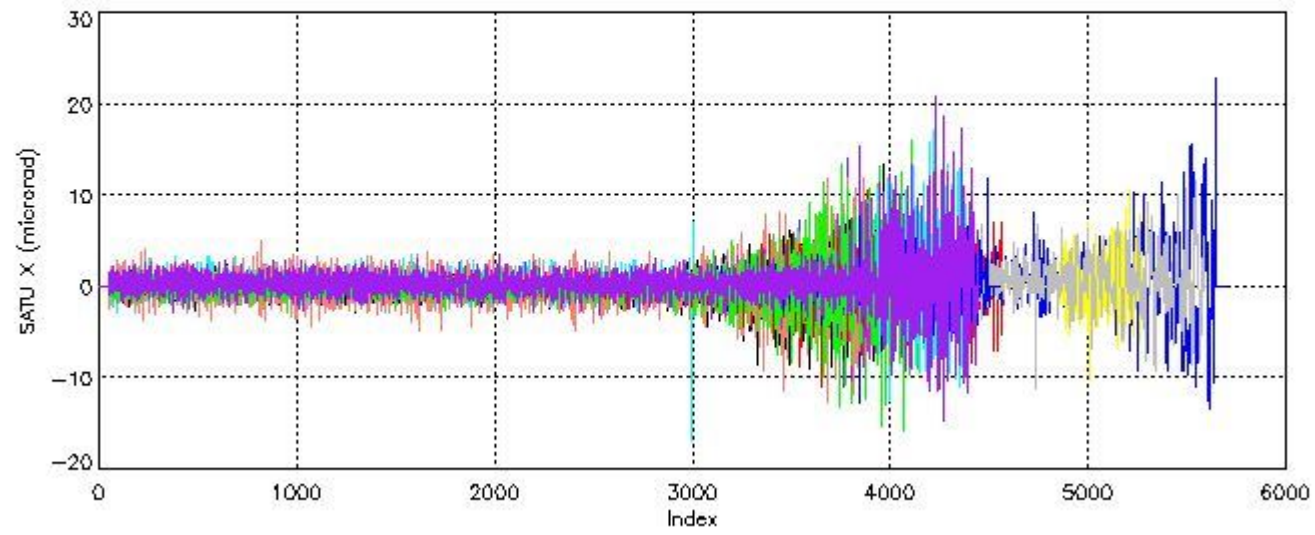


7. Star Acquisition and Tracking Unit (SATU)

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:	0.12659	-1.2538	0.13038	-1.3732
St. deviation:	0.44638	0.57853	0.64058	0.77880
Maximum:	3.3000	1.8000	5.5000	4.3000
Minimum:	-2.8000	-6.4000	-5.3000	-6.9000

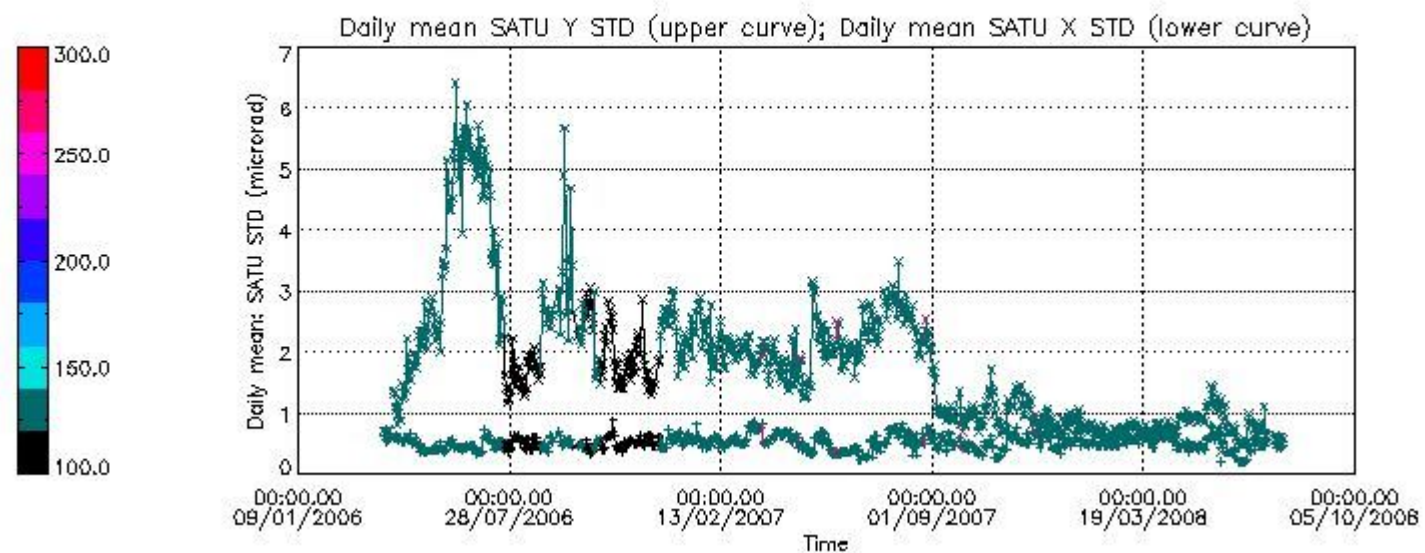
Number of data:	13200.	13200.	19600.	19600.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

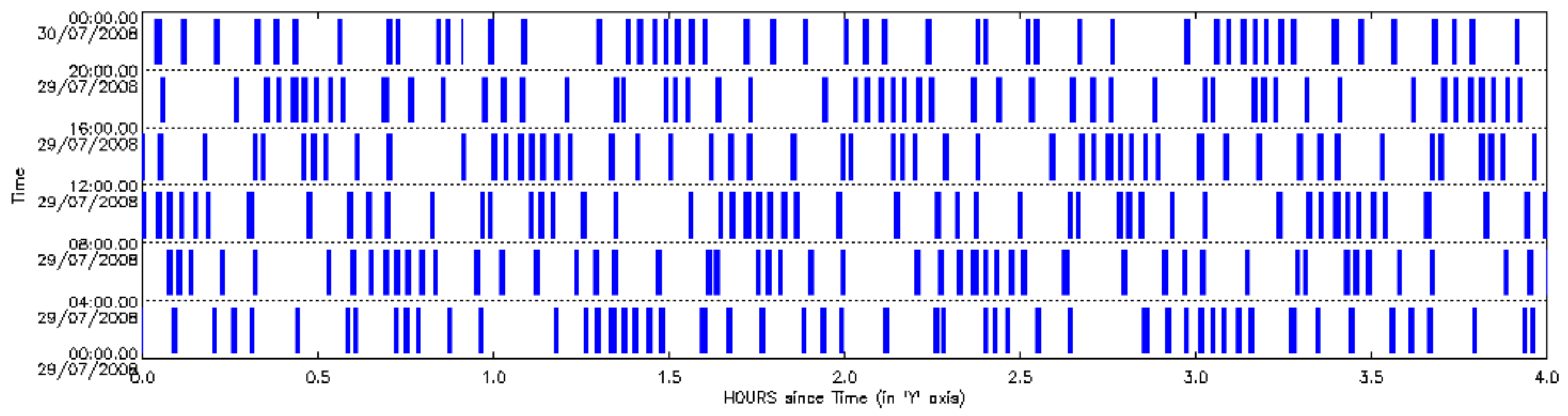
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

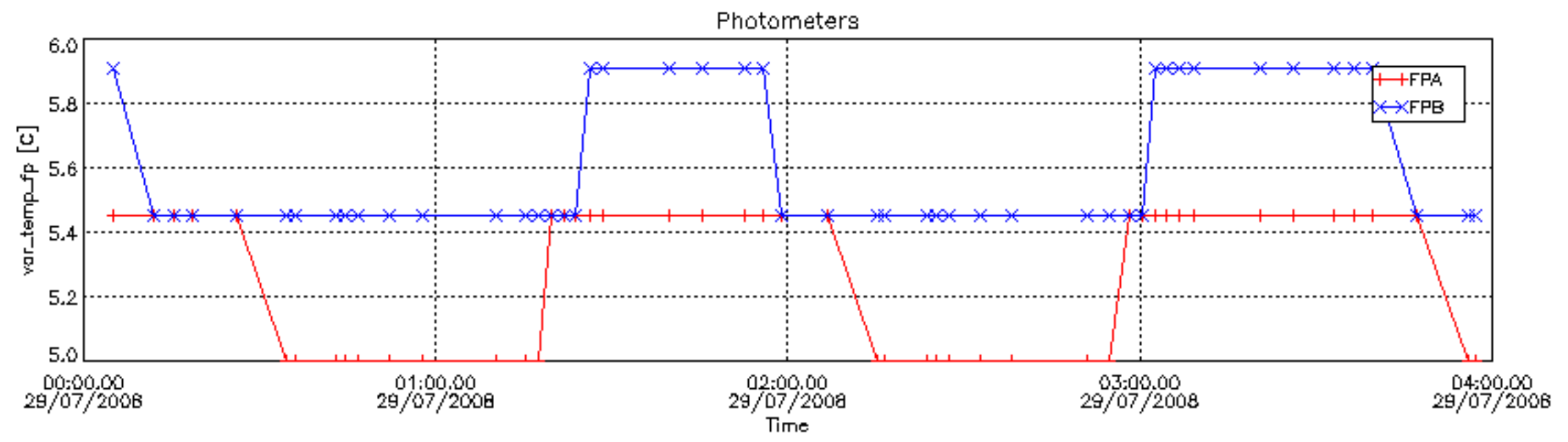
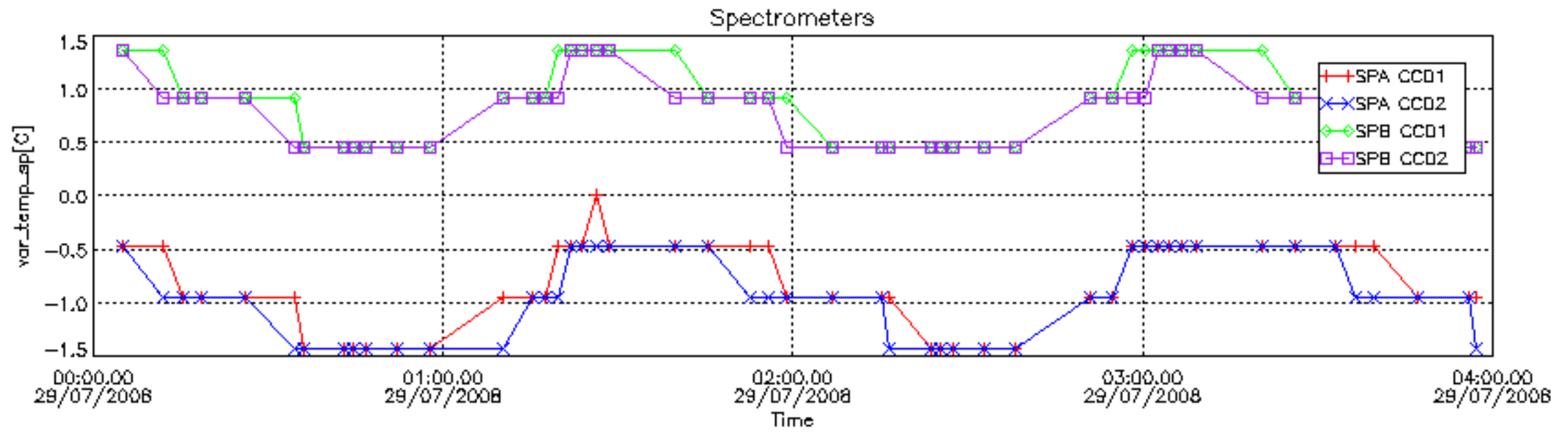


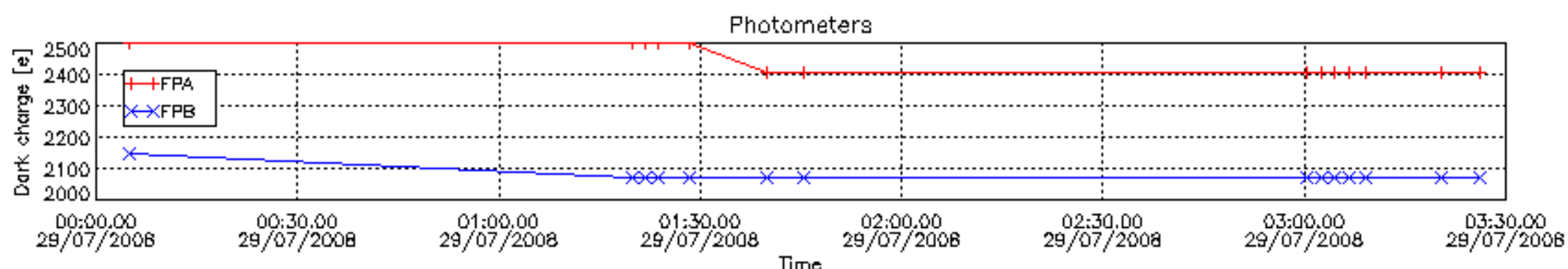
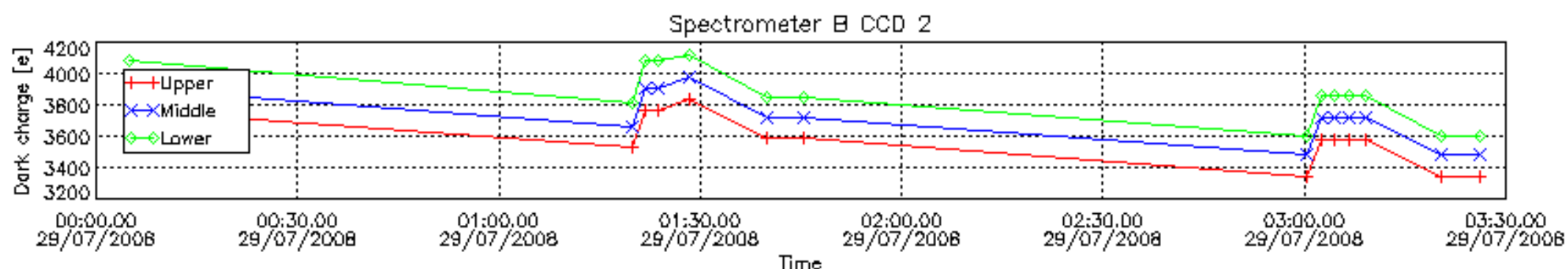
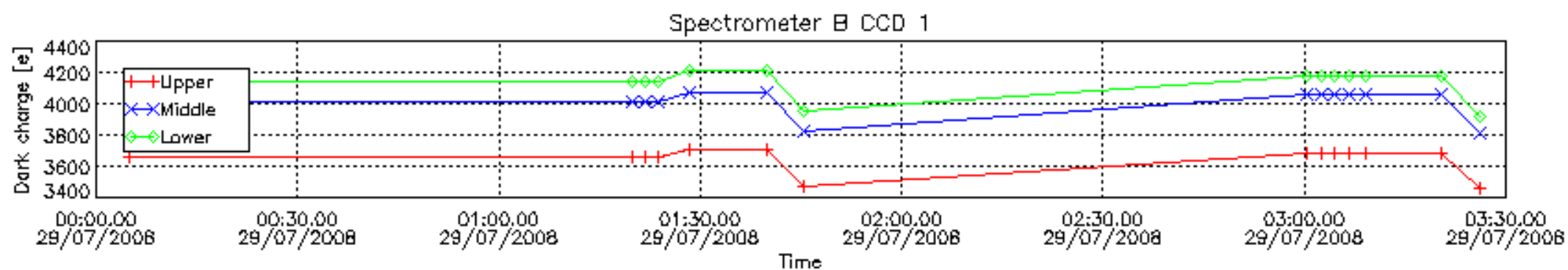
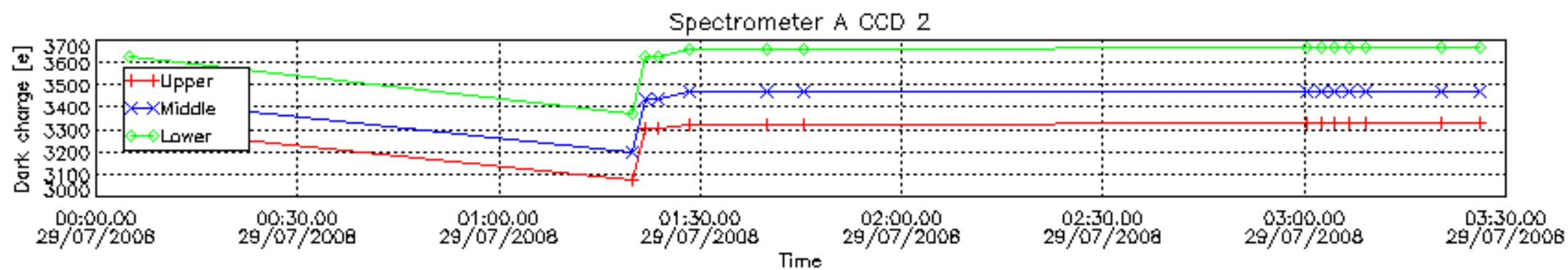
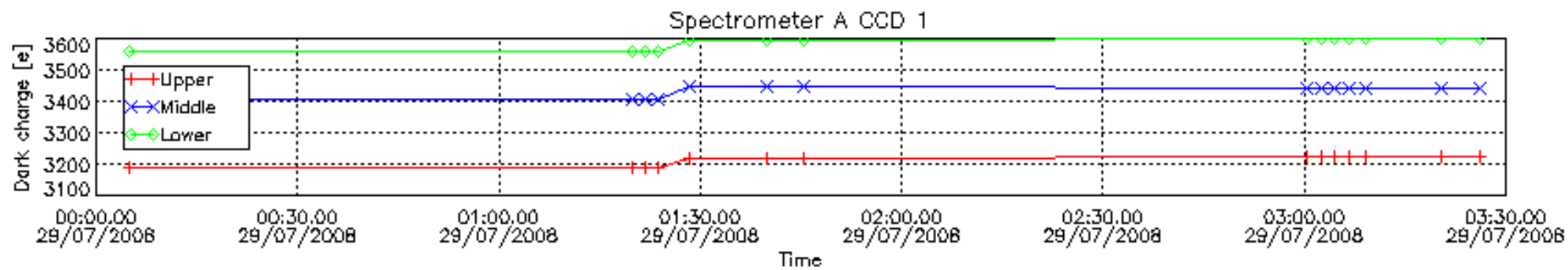
8. Auxiliary Data Files used for the production reported in section 2.4

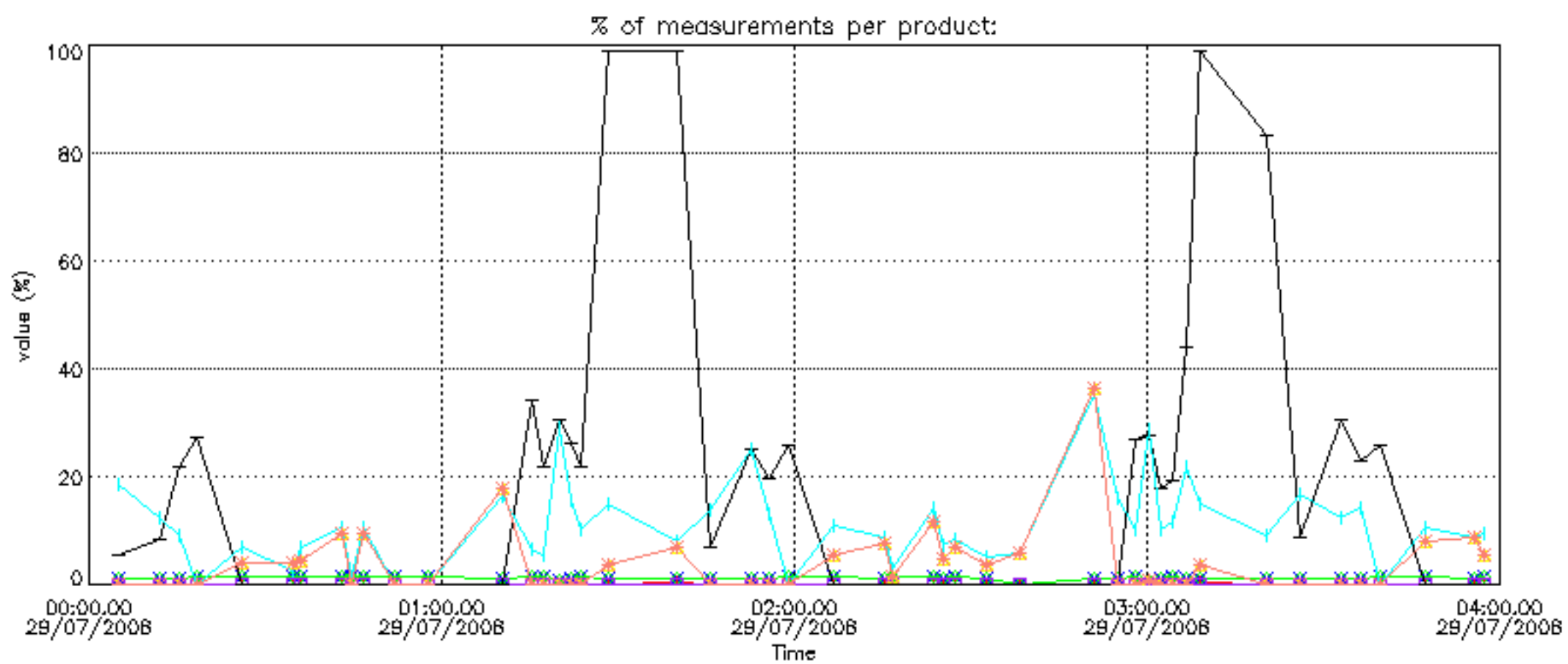
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	29-JUL-2008 00:04:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080711_132227_20080708_000000_20100101_000000	1	29-JUL-2008 00:04:55
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	29-JUL-2008 00:04:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-JUL-2008 00:04:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	29-JUL-2008 00:04:55
ECMWF_FILE	AUX_ECF_AXNECM20080728_072113_20080728_210000_20080729_090000	1	29-JUL-2008 00:04:55
OPTIONAL_ECMWF_FILE	MISSING	1	29-JUL-2008 00:04:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080728_220615_000057382070_00401_33521_6043.N1	1	29-JUL-2008 00:04:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080728_234712_000054192070_00402_33522_6044.N1	19	29-JUL-2008 01:26:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080729_012250_000044632070_00403_33523_6045.N1	34	29-JUL-2008 02:50:51

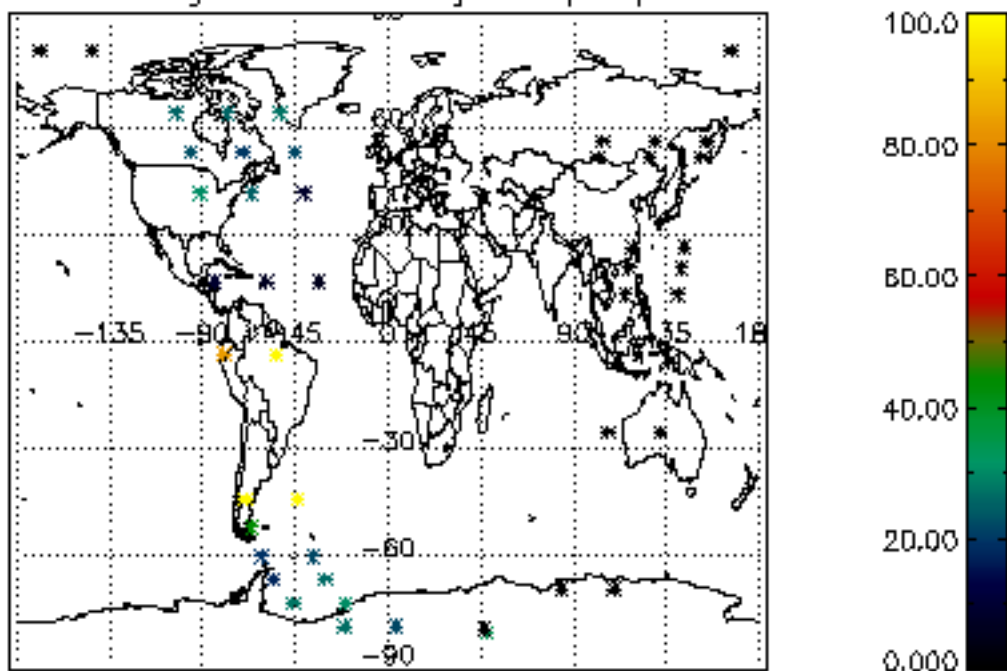




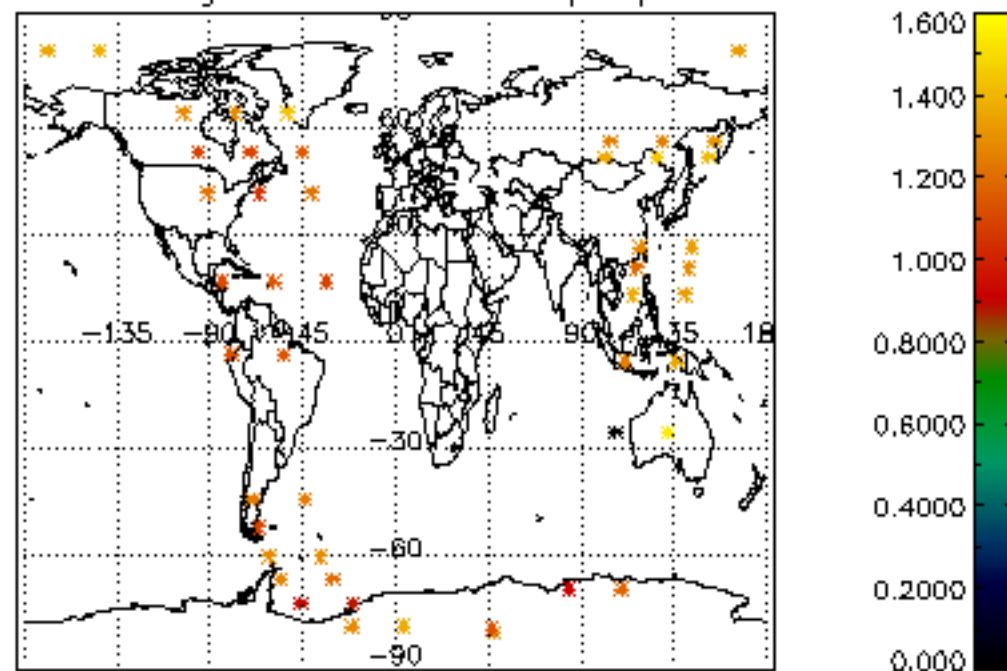




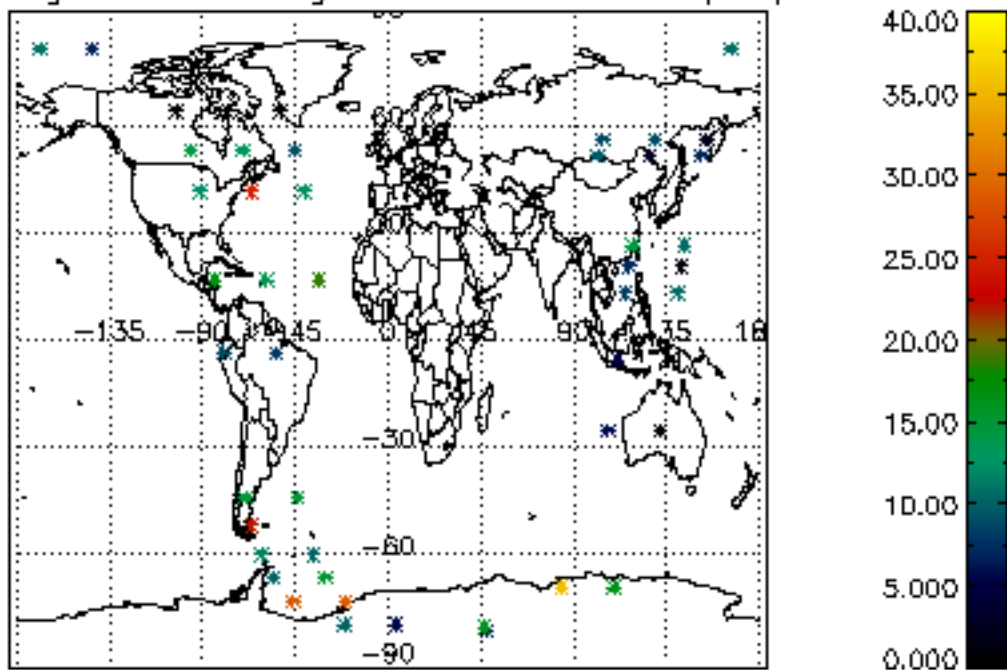
Percentage of cosmic ray hits per profile



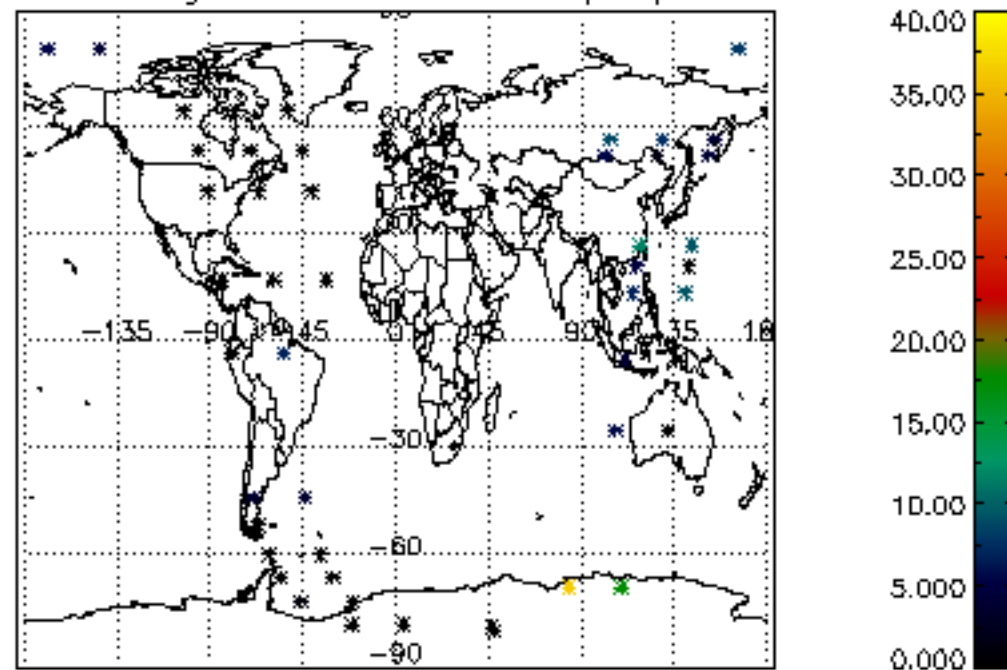
Percentage of datation errors per profile



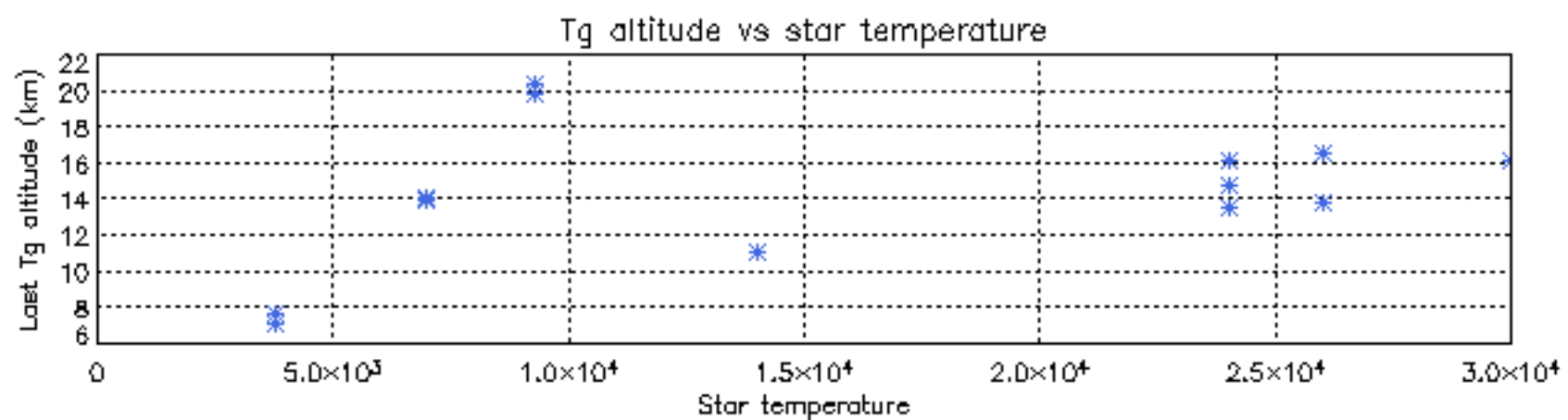
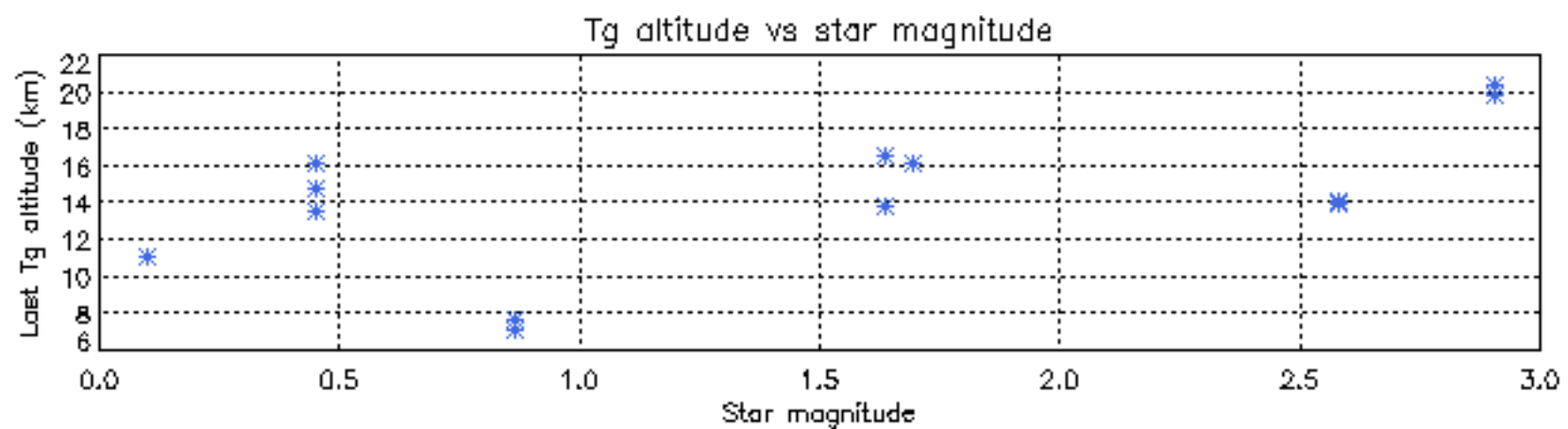
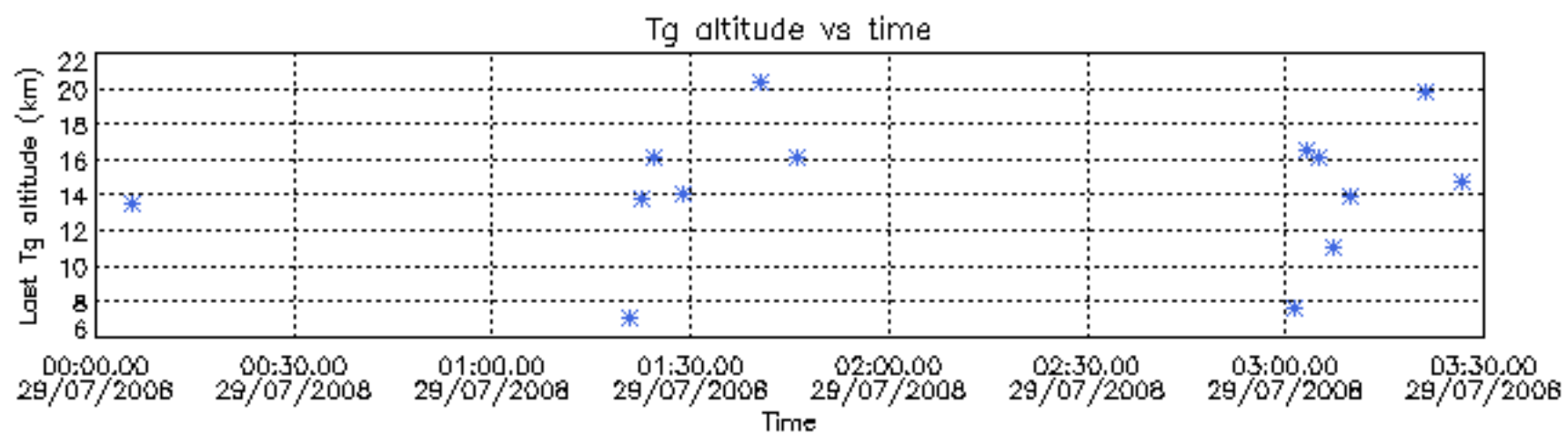
Percentage of star falling outside central band per profile



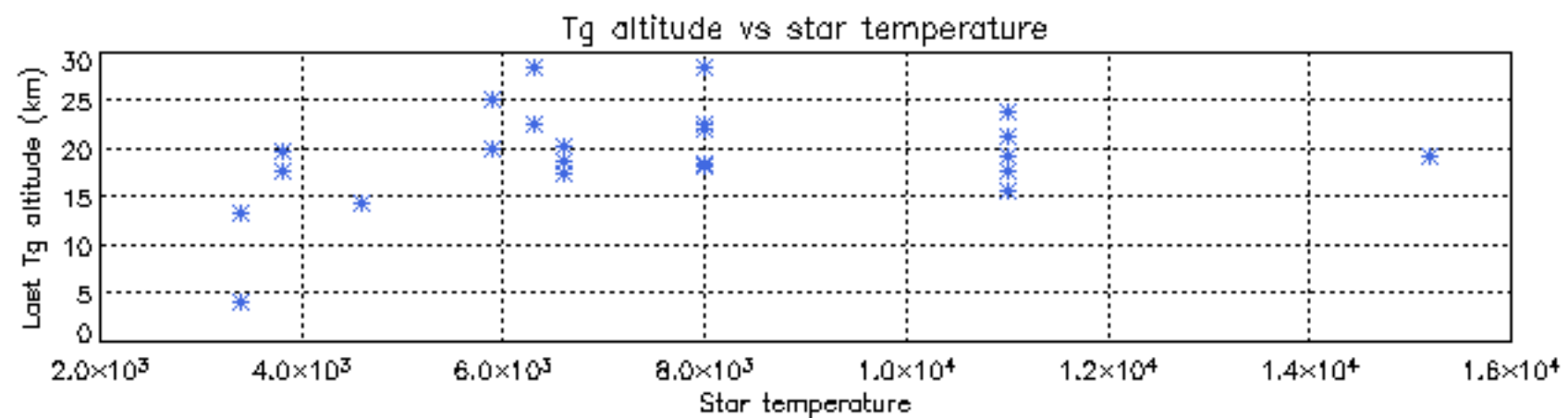
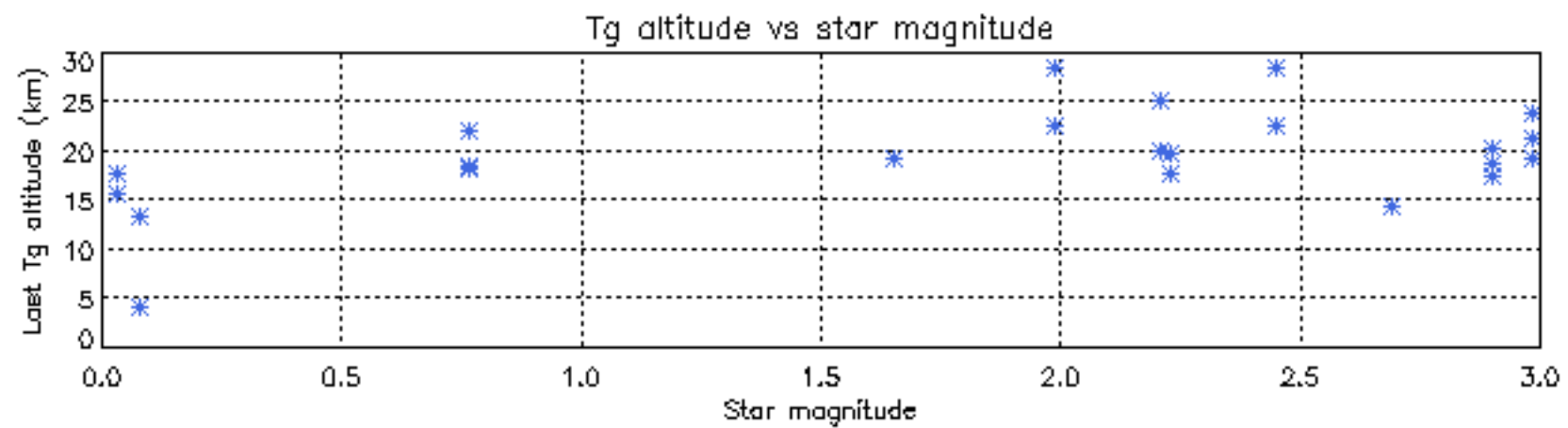
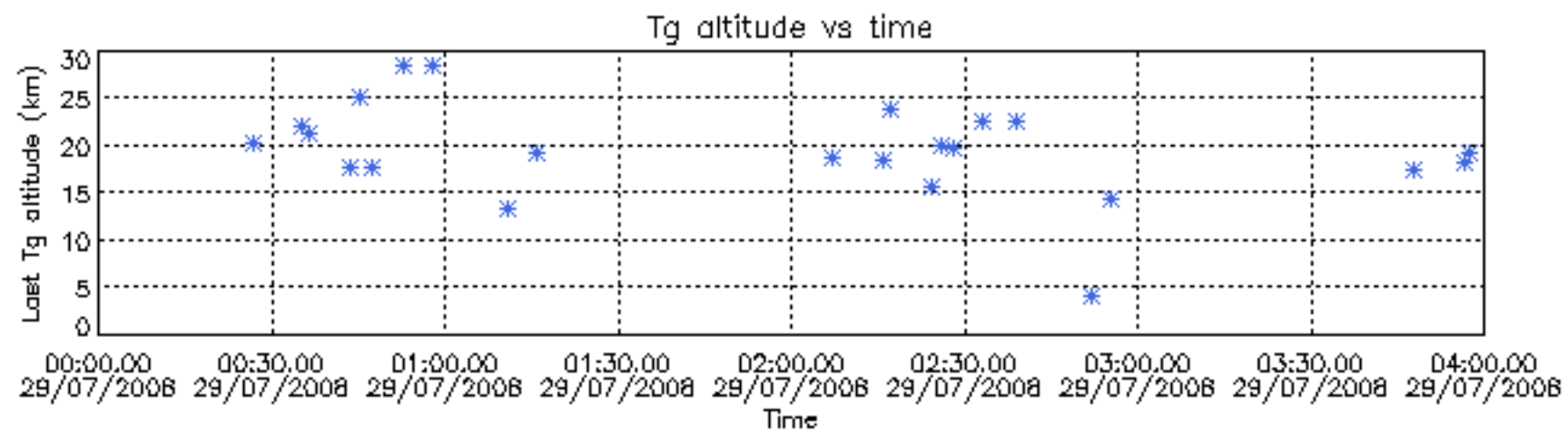
Percentage of saturation errors per profile

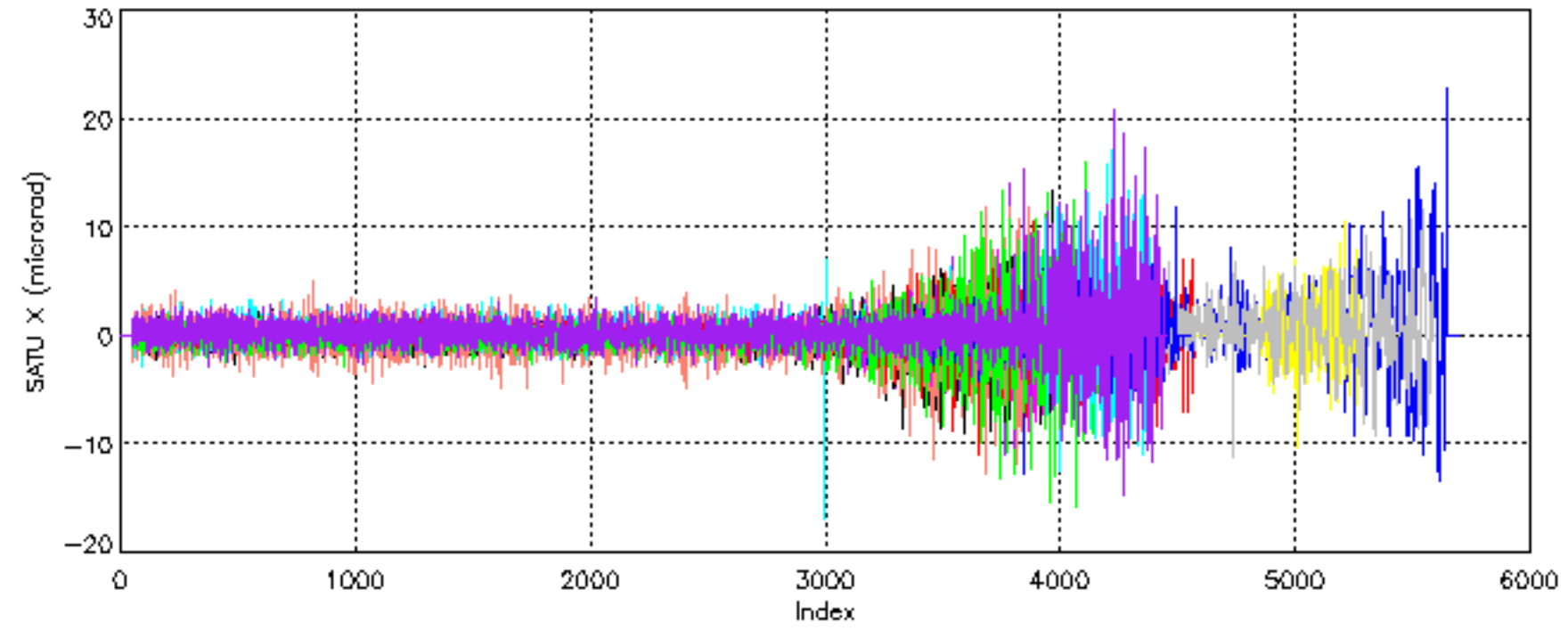


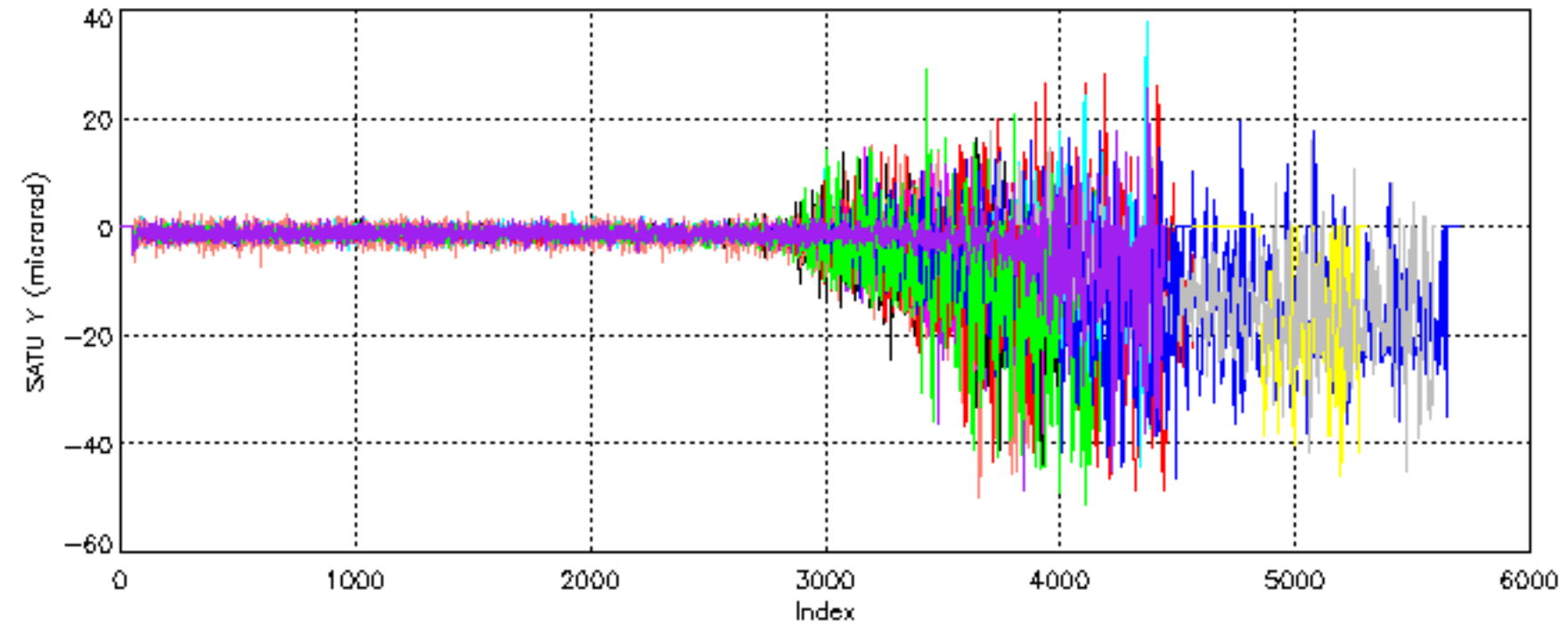
Tangent altitude at which the star is lost

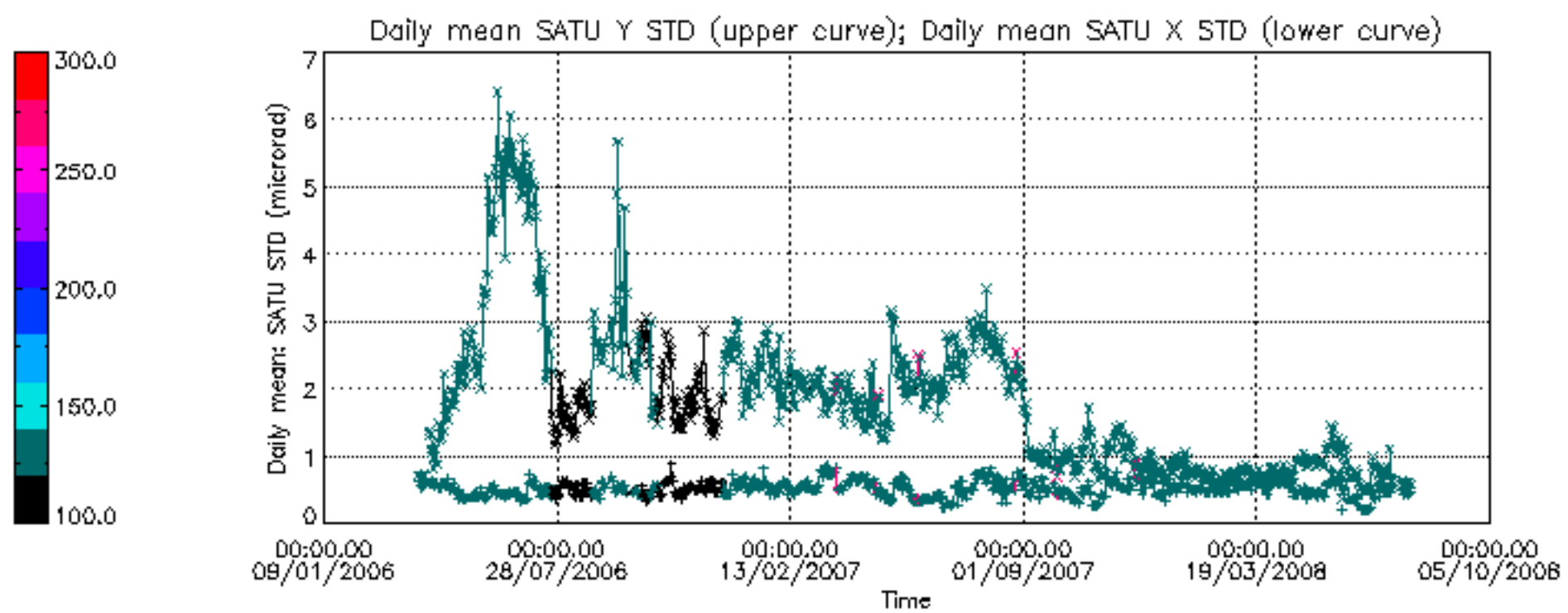


Tangent altitude at which the star is lost









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 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
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 9; 2286.4; 01-JUL-2008 20:25:24; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33134
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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
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 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
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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
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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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 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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 14; 2286.7; 01-JUL-2008 23:46:36; Bright; 33.5; 127; 27Bet Her ; 2.78; 4700;occ; 67; 0;33136
 15; 2449.7; 01-JUL-2008 23:49:19; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87; 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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 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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 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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21; 6787.2; 01-JUL-2008 11:36:50; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;33128
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10; 3445.5; 01-JUL-2008 12:21:44; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33129
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7; 667.2; 23-JUL-2008 23:28:15; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33451
8; 879.4; 23-JUL-2008 23:31:48; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33451
9; 1393.5; 23-JUL-2008 23:40:22; Dark ; 46.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 93; 0;33451
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13; 2784.6; 24-JUL-2008 00:03:33; Bright; 34.0; 69; 33Gam Dra ; 2.23; 3800;occ; 68; 0;33451
14; 3442.5; 24-JUL-2008 00:14:31; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33451
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 6; 4430.8; 23-JUL-2008 09:25:36; Bright; 38.5; 114; 3Iot Aur ; 2.69; 4600;occ; 77; 0;33442
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 17; 6699.2; 23-JUL-2008 10:03:24; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33442
 18; 6912.9; 23-JUL-2008 10:06:58; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;33442
 19; 7427.9; 23-JUL-2008 10:15:33; Dark ; 46.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 92; 0;33442
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13; 5661.4; 23-JUL-2008 14:47:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33445
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 3; 2718.8; 25-JUL-2008 11:15:01; Bright; 37.0; 144; 18Del Cyg ; 2.86; 11000;occ; 74; 0;33472
 4; 2811.2; 25-JUL-2008 11:16:34; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33472
 5; 3442.3; 25-JUL-2008 11:27:05; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33472
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 7; 4434.5; 25-JUL-2008 11:43:37; Bright; 40.5; 114; 3Iot Aur ; 2.69; 4600;occ; 81; 0;33472
 8; 4758.0; 25-JUL-2008 11:49:01; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;33472
 9; 4882.3; 25-JUL-2008 11:51:05; Dark ; 39.5; 27; 24Gam Ori ; 1.64; 26000;occ; 79; 0;33472
 10; 4997.7; 25-JUL-2008 11:53:00; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;33472
 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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 13; 5676.6; 25-JUL-2008 12:04:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33472
 14; 5930.6; 25-JUL-2008 12:08:33; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;33472
 15; 6282.2; 25-JUL-2008 12:14:25; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;33472
 16; 6439.1; 25-JUL-2008 12:17:02; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;33472
 17; 6713.6; 25-JUL-2008 12:21:36; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33472
 18; 6905.5; 25-JUL-2008 12:24:48; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;33472
 19; 7433.5; 25-JUL-2008 12:33:36; Dark ; 44.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 88; 0;33472
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 3; 2718.7; 25-JUL-2008 12:55:37; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;33473
 4; 2811.3; 25-JUL-2008 12:57:10; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;33473
 5; 3442.2; 25-JUL-2008 13:07:41; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33473
 6; 4198.1; 25-JUL-2008 13:20:17; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;33473
 7; 4434.6; 25-JUL-2008 13:24:13; Bright; 41.5; 114; 3Iot Aur ; 2.69; 4600;occ; 83; 0;33473
 8; 4758.3; 25-JUL-2008 13:29:37; Dark ; 59.0; 13; 87Alp Tau ; 0.87; 3800;occ; 118; 0;33473
 9; 4882.6; 25-JUL-2008 13:31:41; Dark ; 41.0; 27; 24Gam Ori ; 1.64; 26000;occ; 82; 0;33473
 10; 4997.9; 25-JUL-2008 13:33:36; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;33473
 11; 5137.9; 25-JUL-2008 13:35:56; Dark ; 48.0; 7; 19Bet Ori ; 0.10; 14000;occ; 96; 0;33473
 12; 5274.9; 25-JUL-2008 13:38:13; Dark ; 38.5; 101; 11Alp Lep ; 2.58; 7000;occ; 77; 0;33473
 13; 5677.2; 25-JUL-2008 13:44:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33473
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 16; 6439.3; 25-JUL-2008 13:57:38; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;33473
 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
 7; 4198.3; 25-JUL-2008 15:00:53; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;33474
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 13; 5275.3; 25-JUL-2008 15:18:50; Dark ; 39.5; 101; 11Alp Lep ; 2.58; 7000;occ; 79; 0;33474
 14; 5677.8; 25-JUL-2008 15:25:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33474


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16; 6283.6; 25-JUL-2008 15:35:38; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;33474
17; 6439.6; 25-JUL-2008 15:38:14; Dark ; 36.0; 135; Bet Hyi ; 2.82; 5800;occ; 72; 0;33474
18; 6714.7; 25-JUL-2008 15:42:49; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33474
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 5; 2718.0; 25-JUL-2008 16:16:48; Bright; 38.0; 144; 18Del Cyg ; 2.86; 11000;occ; 76; 0;33475
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16; 5933.3; 25-JUL-2008 17:10:24; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;33475
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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10; 4759.3; 25-JUL-2008 18:31:26; Dark ; 59.0; 13; 87Alp Tau ; 0.87; 3800;occ; 118; 0;33476
11; 4883.4; 25-JUL-2008 18:33:30; Dark ; 38.0; 27; 24Gam Ori ; 1.64; 26000;occ; 76; 0;33476
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13; 5139.0; 25-JUL-2008 18:37:45; Dark ; 41.0; 7; 19Bet Ori ; 0.10; 14000;occ; 82; 0;33476
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19; 6715.6; 25-JUL-2008 19:04:02; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33476
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15; 5679.5; 25-JUL-2008 20:27:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33477
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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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 4; -98.4; 26-JUL-2008 01:33:27; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;33480
 5; 251.6; 26-JUL-2008 01:39:17; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;33481
 6; 681.4; 26-JUL-2008 01:46:27; Dark ; 50.0; 148; Alp Tuc ; 2.88; 4100;occ; 100; 0;33481
 7; 794.9; 26-JUL-2008 01:48:21; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;33481
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 14; 3128.3; 26-JUL-2008 02:27:14; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;33481
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11; 2712.4; 26-JUL-2008 22:27:30; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;33493
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13; 3441.9; 27-JUL-2008 00:20:15; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33494
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1;	1094.0;	29-JUL-2008	18:45:04;	Dark	;	46.0;	172;	Gam Gru	;	3.00;	13100;occ;	92;	0;	33534
2;	1551.6;	29-JUL-2008	18:52:42;	Bright;	;	37.5;	155;	41Pi Sgr	;	2.90;	6600;occ;	75;	0;	33534
3;	2061.9;	29-JUL-2008	19:01:12;	Bright;	;	37.5;	11;	53Alp Aql	;	0.76;	8000;occ;	75;	0;	33534
4;	2143.9;	29-JUL-2008	19:02:34;	Bright;	;	35.5;	168;	17Zet Aql	;	2.99;	11000;occ;	71;	0;	33534
5;	2568.5;	29-JUL-2008	19:09:39;	Bright;	;	37.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	74;	0;	33534
6;	2662.3;	29-JUL-2008	19:11:12;	Bright;	;	41.5;	66;	37Gam Cyg	;	2.21;	5900;occ;	83;	0;	33534
7;	2793.0;	29-JUL-2008	19:13:23;	Bright;	;	25.0;	69;	33Gam Dra	;	2.23;	3800;occ;	50;	0;	33534
8;	3103.7;	29-JUL-2008	19:18:34;	Bright;	;	40.5;	89;	5Alp Cep	;	2.45;	8000;occ;	81;	0;	33534
9;	3441.5;	29-JUL-2008	19:24:12;	Bright;	;	36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	33534
10;	4200.4;	29-JUL-2008	19:36:50;	Bright;	;	42.5;	6;	13Alp Aur	;	0.08;	3400;occ;	85;	0;	33534
11;	4510.1;	29-JUL-2008	19:42:00;	Dark	;	48.0;	28;	12Bet Tau	;	1.65;	15200;occ;	96;	0;	33534
12;	4633.5;	29-JUL-2008	19:44:04;	Dark	;	37.5;	176;	23Zet Tau	;	3.02;	22000;occ;	75;	0;	33534
13;	4779.2;	29-JUL-2008	19:46:29;	Dark	;	48.5;	13;	87Alp Tau	;	0.87;	3800;occ;	97;	0;	33534
14;	4900.7;	29-JUL-2008	19:48:31;	Dark	;	39.5;	27;	24Gam Ori	;	1.64;	26000;occ;	79;	0;	33534
15;	5015.7;	29-JUL-2008	19:50:26;	Dark	;	37.0;	30;	46Eps Ori	;	1.69;	30000;occ;	74;	0;	33534
16;	5161.1;	29-JUL-2008	19:52:51;	Dark	;	39.0;	7;	19Bet Ori	;	0.10;	14000;occ;	78;	0;	33534
17;	5293.9;	29-JUL-2008	19:55:04;	Dark	;	42.0;	101;	11Alp Lep	;	2.58;	7000;occ;	84;	0;	33534
18;	5715.0;	29-JUL-2008	20:02:05;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	33534
19;	5986.0;	29-JUL-2008	20:06:36;	Dark	;	46.5;	157;	The1Eri	;	2.91;	9300;occ;	93;	0;	33534
20;	6324.2;	29-JUL-2008	20:12:14;	Dark	;	53.5;	9;	Alp Eri	;	0.45;	24000;occ;	107;	0;	33534
21;	6742.2;	29-JUL-2008	20:19:12;	Dark	;	40.5;	148;	Alp Tuc	;	2.88;	4100;occ;	81;	0;	33534
22;	6940.8;	29-JUL-2008	20:22:31;	Dark	;	44.0;	31;	Alp Gru	;	1.73;	15200;occ;	88;	0;	33534

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3;	-49.0;	29-JUL-2008	21:47:13;	Dark	;	46.5;	157;	The1Eri	;	2.91;	9300;occ;	93;	0;	33535
4;	288.9;	29-JUL-2008	21:52:51;	Dark	;	45.5;	9;	Alp Eri	;	0.45;	24000;occ;	91;	0;	33536
5;	706.7;	29-JUL-2008	21:59:49;	Dark	;	39.0;	148;	Alp Tuc	;	2.88;	4100;occ;	78;	0;	33536
6;	905.4;	29-JUL-2008	22:03:07;	Dark	;	51.5;	31;	Alp Gru	;	1.73;	15200;occ;	103;	0;	33536
7;	1095.1;	29-JUL-2008	22:06:17;	Dark	;	45.5;	172;	Gam Gru	;	3.00;	13100;occ;	91;	0;	33536
8;	1552.0;	29-JUL-2008	22:13:54;	Bright;	;	36.5;	155;	41Pi Sgr	;	2.90;	6600;occ;	73;	0;	33536
9;	2061.6;	29-JUL-2008	22:22:24;	Bright;	;	37.5;	11;	53Alp Aql	;	0.76;	8000;occ;	75;	0;	33536
10;	2143.9;	29-JUL-2008	22:23:46;	Bright;	;	35.0;	168;	17Zet Aql	;	2.99;	11000;occ;	70;	0;	33536
11;	2568.5;	29-JUL-2008	22:30:50;	Bright;	;	36.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	72;	0;	33536
12;	2661.4;	29-JUL-2008	22:32:23;	Bright;	;	39.0;	66;	37Gam Cyg	;	2.21;	5900;occ;	78;	0;	33536
13;	3102.7;	29-JUL-2008	22:39:45;	Bright;	;	39.0;	89;	5Alp Cep	;	2.45;	8000;occ;	78;	0;	33536
14;	3441.4;	29-JUL-2008	22:45:23;	Bright;	;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	33536
15;	4200.4;	29-JUL-2008	22:58:02;	Bright;	;	55.0;	6;	13Alp Aur	;	0.08;	3400;occ;	110;	0;	33536
16;	4510.4;	29-JUL-2008	23:03:12;	Dark	;	39.5;	28;	12Bet Tau	;	1.65;	15200;occ;	79;	0;	33536
17;	4633.9;	29-JUL-2008	23:05:16;	Dark	;	38.5;	176;	23Zet Tau	;	3.02;	22000;occ;	77;	0;	33536
18;	4779.8;	29-JUL-2008	23:07:42;	Dark	;	54.5;	13;	87Alp Tau	;	0.87;	3800;occ;	109;	0;	33536
19;	4901.3;	29-JUL-2008	23:09:43;	Dark	;	38.5;	27;	24Gam Ori	;	1.64;	26000;occ;	77;	0;	33536
20;	5016.2;	29-JUL-2008	23:11:38;	Dark	;	38.5;	30;	46Eps Ori	;	1.69;	30000;occ;	77;	0;	33536
21;	5161.7;	29-JUL-2008	23:14:04;	Dark	;	48.0;	7;	19Bet Ori	;	0.10;	14000;occ;	96;	0;	33536

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3; -48.0; 29-JUL-2008 23:27:50; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;33536
4; 289.6; 29-JUL-2008 23:33:27; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;33537
5; 707.1; 29-JUL-2008 23:40:25; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;33537
6; 905.9; 29-JUL-2008 23:43:44; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;33537
7; 1095.5; 29-JUL-2008 23:46:53; Dark ; 45.0; 172; Gam Gru ; 3.00; 13100;occ; 90; 0;33537
8; 1552.2; 29-JUL-2008 23:54:30; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;33537
9; 2061.5; 30-JUL-2008 00:02:59; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;33537
10; 2144.0; 30-JUL-2008 00:04:22; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;33537
11; 2568.5; 30-JUL-2008 00:11:26; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;33537
12; 2660.9; 30-JUL-2008 00:12:59; Bright; 41.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 83; 0;33537
13; 3102.2; 30-JUL-2008 00:20:20; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;33537
14; 3441.3; 30-JUL-2008 00:25:59; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33537
15; 4200.5; 30-JUL-2008 00:38:38; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;33537
16; 4510.6; 30-JUL-2008 00:43:48; Dark ; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;33537
17; 4634.1; 30-JUL-2008 00:45:52; Dark ; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;33537
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19; 4901.6; 30-JUL-2008 00:50:19; Dark ; 41.0; 27; 24Gam Ori ; 1.64; 26000;occ; 82; 0;33537
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21; 5162.1; 30-JUL-2008 00:54:40; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;33537
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4; 290.3; 30-JUL-2008 01:14:04; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;33538
5; 707.6; 30-JUL-2008 01:21:01; Dark ; 48.5; 148; Alp Tuc ; 2.88; 4100;occ; 97; 0;33538
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7; 1095.8; 30-JUL-2008 01:27:29; Dark ; 46.0; 172; Gam Gru ; 3.00; 13100;occ; 92; 0;33538
8; 1552.2; 30-JUL-2008 01:35:06; Bright; 36.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 72; 0;33538
9; 2061.5; 30-JUL-2008 01:43:35; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;33538
10; 2144.0; 30-JUL-2008 01:44:58; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;33538
11; 2568.6; 30-JUL-2008 01:52:02; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;33538
12; 2660.5; 30-JUL-2008 01:53:34; Bright; 41.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 82; 0;33538
13; 3101.8; 30-JUL-2008 02:00:55; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;33538
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3; -1401.6; 30-JUL-2008 02:26:28; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;33538
4; -1255.3; 30-JUL-2008 02:28:54; Dark ; 61.5; 13; 87Alp Tau ; 0.87; 3800;occ; 123; 0;33538
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6; -1019.0; 30-JUL-2008 02:32:51; Dark ; 38.0; 30; 46Eps Ori ; 1.69; 30000;occ; 76; 0;33538
7; -873.2; 30-JUL-2008 02:35:16; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;33538
8; -318.3; 30-JUL-2008 02:44:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33538
9; -46.1; 30-JUL-2008 02:49:03; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;33538
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19; 3101.4; 30-JUL-2008 03:41:31; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;33539
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7; -872.8; 30-JUL-2008 04:15:53; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;33539

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11; 291.7; 30-JUL-2008 04:35:17; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33540
12; 708.5; 30-JUL-2008 04:42:14; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33540
13; 907.5; 30-JUL-2008 04:45:33; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;33540
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15; 1552.5; 30-JUL-2008 04:56:18; Bright; 36.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 72; 0;33540
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20; 3100.9; 30-JUL-2008 05:22:06; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;33540
21; 3441.4; 30-JUL-2008 05:27:47; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;33540
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16; 2061.3; 30-JUL-2008 06:45:23; Bright; 38.0; 11; 53Alp Aql ; 0.76; 8000;occ; 76; 0;33541
17; 2144.1; 30-JUL-2008 06:46:46; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;33541
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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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3; 2569.9; 31-JUL-2008 16:25:50; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;33561
4; 2651.2; 31-JUL-2008 16:27:11; Bright; 41.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 82; 0;33561
5; 3091.8; 31-JUL-2008 16:34:32; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;33561
6; 3441.2; 31-JUL-2008 16:40:21; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33561
7; 4201.1; 31-JUL-2008 16:53:01; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;33561
8; 4346.5; 31-JUL-2008 16:55:26; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;33561
9; 4514.6; 31-JUL-2008 16:58:15; Dark ; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;33561
10; 4639.3; 31-JUL-2008 17:00:19; Dark ; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;33561

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 13; 5172.6; 31-JUL-2008 17:09:13; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;33561
 14; 5303.5; 31-JUL-2008 17:11:23; Dark ; 41.0; 101; 11Alp Lep ; 2.58; 7000;occ; 82; 0;33561
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 13; 4859.5; 31-JUL-2008 18:44:35; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;33562
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 6; 2650.4; 31-JUL-2008 19:48:22; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33563
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