

GOMOS Daily Report 03-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 09:42:26
Data source version	GOMOS/5.00
Start time of products	03-08-2007 (03AUG2007 00:00:00)
Stop time of products	04-08-2007 (04AUG2007 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)

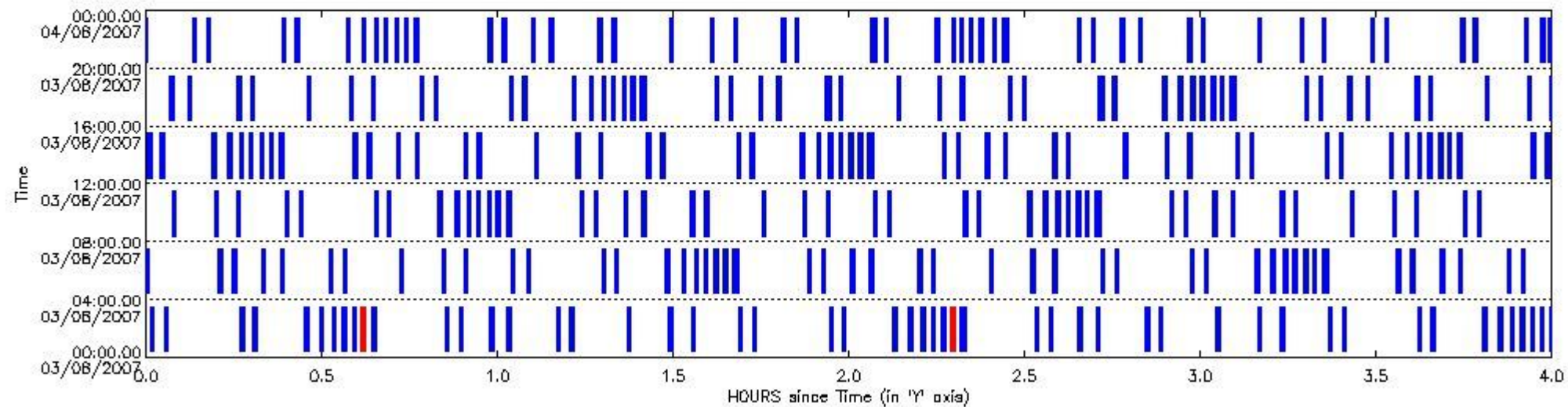
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

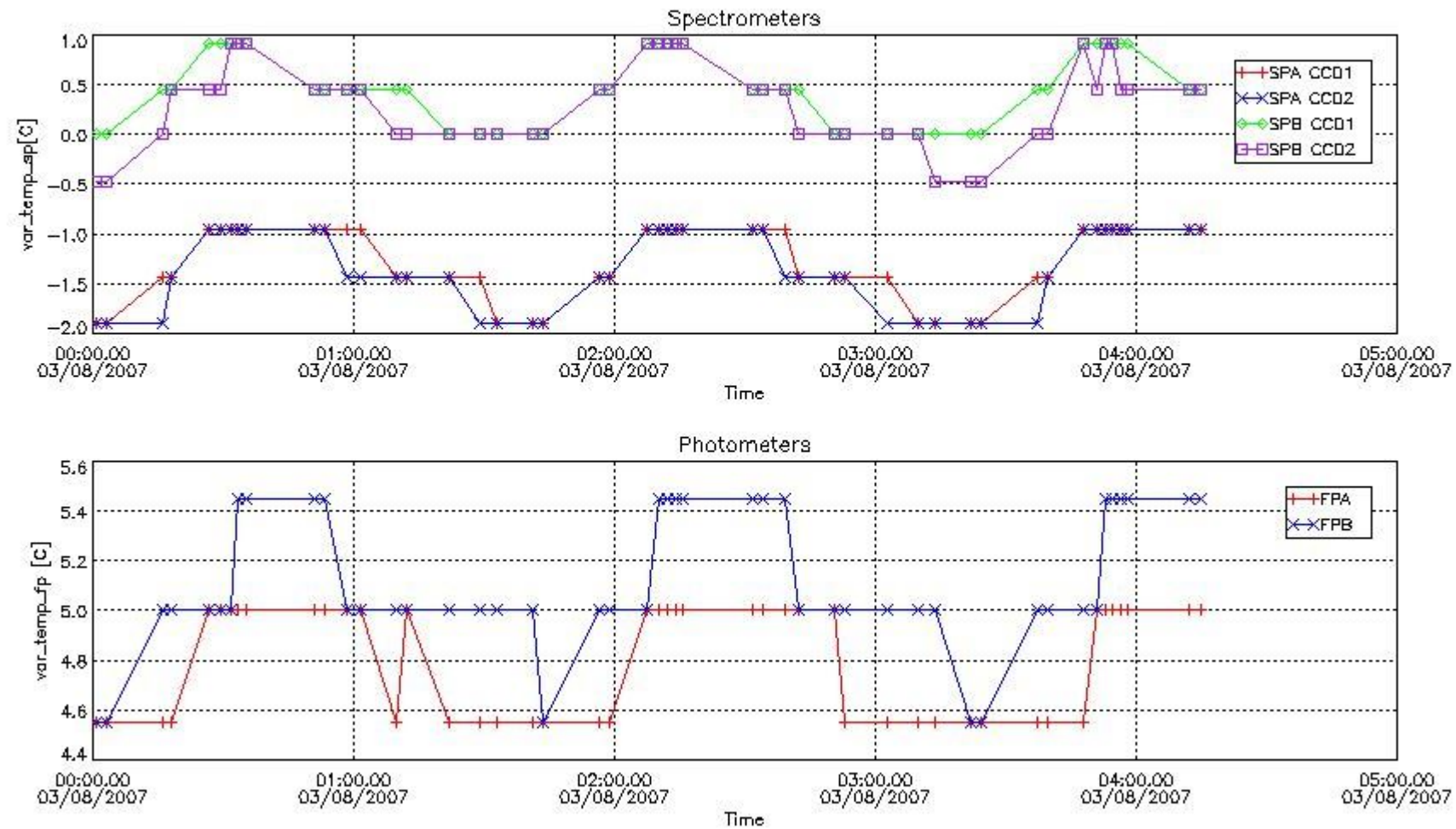
UTC start time	Star name	Star ID	Orbit
03-AUG-2007 00:36:35	1ZetCMa	177	28355
03-AUG-2007 02:17:12	1ZetCMa	177	28356

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_1PNPDE20070803_000036_000000382060_00245_28355_1674.N1	03-AUG-2007 00:00:36	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	28355	No
2	GOM_TRA_1PNPDE20070803_000304_000000342060_00245_28355_1675.N1	03-AUG-2007 00:03:04	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	28355	No
3	GOM_TRA_1PNPDE20070803_001558_000000532060_00245_28355_1676.N1	03-AUG-2007 00:15:58	Bright	53.000	42	34Bet Aur	1.9000	10200.	106	28355	No
4	GOM_TRA_1PNPDE20070803_001813_000000452060_00245_28355_1677.N1	03-AUG-2007 00:18:13	Bright	44.500	107	37The Aur	2.6490	11000.	89	28355	No
5	GOM_TRA_1PNPDE20070803_002649_000000532060_00245_28355_1678.N1	03-AUG-2007 00:26:49	Dark	53.000	14	58Alp Ori	0.87000	3000.0	106	28355	No
6	GOM_TRA_1PNPDE20070803_002936_000000412060_00245_28355_1679.N1	03-AUG-2007 00:29:36	Dark	40.500	30	46Eps Ori	1.6940	30000.	81	28355	No
7	GOM_TRA_1PNPDE20070803_003142_000000412060_00245_28355_1680.N1	03-AUG-2007 00:31:42	Dark	40.500	56	53Kap Ori	2.0650	30000.	81	28355	No
8	GOM_TRA_1PNPDE20070803_003323_000000422060_00245_28355_1681.N1	03-AUG-2007 00:33:23	Dark	41.500	47	2Bet CMa	1.9760	28000.	83	28355	No
9	GOM_TRA_1PNPDE20070803_003510_000000422060_00245_28355_1811.N1	03-AUG-2007 00:35:10	Dark	41.500	139	9Bet Lep	2.8330	5600.0	83	28355	No

10	GOM_TRA_1PNPDE20070803_005103_000000402060_00246_28356_1812.N1	03-AUG-2007 00:51:03	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	28356	No
11	GOM_TRA_1PNPDE20070803_005331_000000372060_00246_28356_1813.N1	03-AUG-2007 00:53:31	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28356	No
12	GOM_TRA_1PNPDE20070803_005827_000000482060_00246_28356_1814.N1	03-AUG-2007 00:58:27	Straylight	47.500	148	Alp Tuc	2.8780	4100.0	95	28356	No
13	GOM_TRA_1PNPDE20070803_010136_000000402060_00246_28356_1815.N1	03-AUG-2007 01:01:36	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	28356	No
14	GOM_TRA_1PNPDE20070803_010957_000000412060_00246_28356_1816.N1	03-AUG-2007 01:09:57	Bright	40.500	103	38Zet Sgr	2.6000	9700.0	81	28356	No
15	GOM_TRA_1PNPDE20070803_011219_000000382060_00246_28356_1817.N1	03-AUG-2007 01:12:19	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	28356	No
16	GOM_TRA_1PNPDE20070803_012206_000000362060_00246_28356_1818.N1	03-AUG-2007 01:22:06	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	28356	No
17	GOM_TRA_1PNPDE20070803_012911_000000392060_00246_28356_1819.N1	03-AUG-2007 01:29:11	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	28356	No
18	GOM_TRA_1PNPDE20070803_013301_000000322060_00246_28356_1820.N1	03-AUG-2007 01:33:01	Bright	32.000	69	33Gam Dra	2.2310	3800.0	64	28356	No
19	GOM_TRA_1PNPDE20070803_014112_000000332060_00246_28356_1821.N1	03-AUG-2007 01:41:12	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	28356	No
20	GOM_TRA_1PNPDE20070803_014340_000000332060_00246_28356_1822.N1	03-AUG-2007 01:43:40	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28356	No
21	GOM_TRA_1PNPDE20070803_015634_000000352060_00246_28356_1823.N1	03-AUG-2007 01:56:34	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	28356	No
22	GOM_TRA_1PNPDE20070803_015849_000000412060_00246_28356_1824.N1	03-AUG-2007 01:58:49	Bright	41.000	107	37The Aur	2.6490	11000.	82	28356	No
23	GOM_TRA_1PNPDE20070803_020725_000000512060_00246_28356_1825.N1	03-AUG-2007 02:07:25	Dark	51.000	14	58Alp Ori	0.87000	3000.0	102	28356	No
24	GOM_TRA_1PNPDE20070803_021012_000000452060_00246_28356_1947.N1	03-AUG-2007 02:10:12	Dark	44.500	30	46Eps Ori	1.6940	30000.	89	28356	Yes
25	GOM_TRA_1PNPDE20070803_021219_000000422060_00246_28356_1948.N1	03-AUG-2007 02:12:19	Dark	42.000	56	53Kap Ori	2.0650	30000.	84	28356	No
26	GOM_TRA_1PNPDE20070803_021359_000000422060_00246_28356_1949.N1	03-AUG-2007 02:13:59	Dark	41.500	47	2Bet CMa	1.9760	28000.	83	28356	No
27	GOM_TRA_1PNPDE20070803_021546_000000402060_00246_28356_1950.N1	03-AUG-2007 02:15:46	Dark	39.500	139	9Bet Lep	2.8330	5600.0	79	28356	No
28	GOM_TRA_1PNPDE20070803_023139_000000402060_00247_28357_1951.N1	03-AUG-2007 02:31:39	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	28357	No
29	GOM_TRA_1PNPDE20070803_023407_000000372060_00247_28357_1952.N1	03-AUG-2007 02:34:07	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28357	No
30	GOM_TRA_1PNPDE20070803_023904_000000412060_00247_28357_1953.N1	03-AUG-2007 02:39:04	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	28357	No
31	GOM_TRA_1PNPDE20070803_024213_000000382060_00247_28357_1954.N1	03-AUG-2007 02:42:13	Straylight	38.000	45	Alp Pav	1.9400	26000.	76	28357	No
32	GOM_TRA_1PNPDE20070803_025033_000000422060_00247_28357_1955.N1	03-AUG-2007 02:50:33	Bright	42.000	103	38Zet Sgr	2.6000	9700.0	84	28357	No
33	GOM_TRA_1PNPDE20070803_025255_000000362060_00247_28357_1956.N1	03-AUG-2007 02:52:55	Bright	36.000	155	41Pi Sgr	2.9000	6600.0	72	28357	No
34	GOM_TRA_1PNPDE20070803_030242_000000352060_00247_28357_1957.N1	03-AUG-2007 03:02:42	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28357	No
35	GOM_TRA_1PNPDE20070803_030947_000000362060_00247_28357_1958.N1	03-AUG-2007 03:09:47	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	28357	No
36	GOM_TRA_1PNPDE20070803_031337_000000392060_00247_28357_1959.N1	03-AUG-2007 03:13:37	Bright	38.500	69	33Gam Dra	2.2310	3800.0	77	28357	No
37	GOM_TRA_1PNPDE20070803_032148_000000332060_00247_28357_1960.N1	03-AUG-2007 03:21:48	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	28357	No
38	GOM_TRA_1PNPDE20070803_032416_000000342060_00247_28357_1961.N1	03-AUG-2007 03:24:16	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	28357	No
39	GOM_TRA_1PNPDE20070803_033710_000000362060_00247_28357_2095.N1	03-AUG-2007 03:37:10	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	28357	No
40	GOM_TRA_1PNPDE20070803_033925_000000362060_00247_28357_2096.N1	03-AUG-2007 03:39:25	Bright	36.000	107	37The Aur	2.6490	11000.	72	28357	No
41	GOM_TRA_1PNPDE20070803_034801_000000532060_00247_28357_2097.N1	03-AUG-2007 03:48:01	Dark	53.000	14	58Alp Ori	0.87000	3000.0	106	28357	No
42	GOM_TRA_1PNPDE20070803_035048_000000452060_00247_28357_2098.N1	03-AUG-2007 03:50:48	Dark	44.500	30	46Eps Ori	1.6940	30000.	89	28357	No
43	GOM_TRA_1PNPDE20070803_035255_000000402060_00247_28357_2099.N1	03-AUG-2007 03:52:55	Dark	40.000	56	53Kap Ori	2.0650	30000.	80	28357	No
44	GOM_TRA_1PNPDE20070803_035436_000000392060_00247_28357_2100.N1	03-AUG-2007 03:54:36	Dark	38.500	47	2Bet CMa	1.9760	28000.	77	28357	No
45	GOM_TRA_1PNPDE20070803_035623_000000432060_00247_28357_2101.N1	03-AUG-2007 03:56:23	Dark	42.500	139	9Bet Lep	2.8330	5600.0	85	28357	No
46	GOM_TRA_1PNPDE20070803_035756_000000382060_00247_28357_2102.N1	03-AUG-2007 03:57:56	Dark	38.000	177	1Zet CMa	3.0220	26000.	76	28357	No
47	GOM_TRA_1PNPDE20070803_041216_000000392060_00248_28358_2103.N1	03-AUG-2007 04:12:16	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	28358	No
48	GOM_TRA_1PNPDE20070803_041444_000000362060_00248_28358_2104.N1	03-AUG-2007 04:14:44	Dark	35.500	135	Bet Hyi	2.8200	5800.0	71	28358	No

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



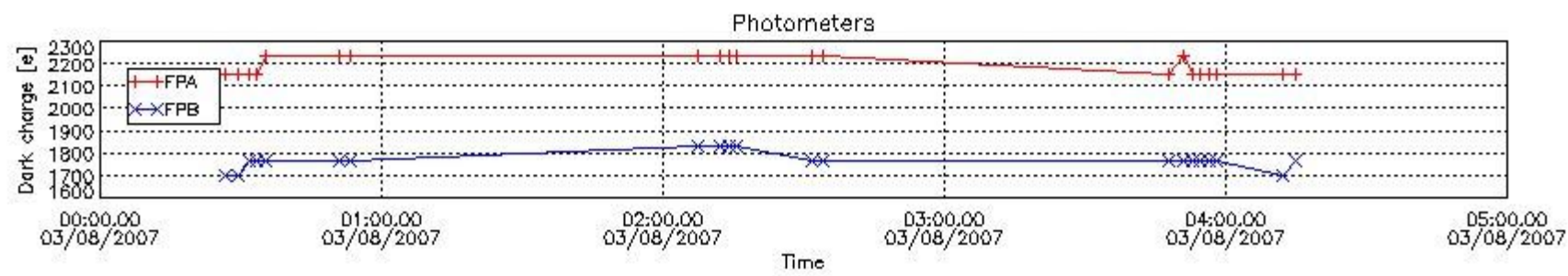
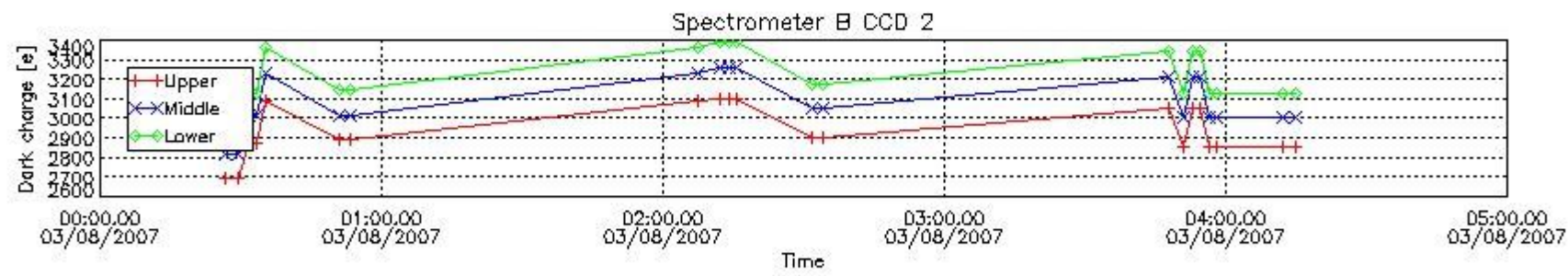
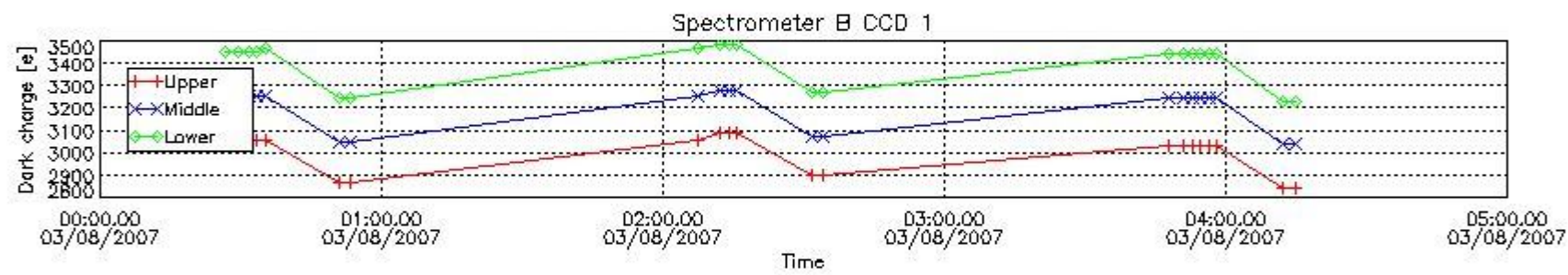
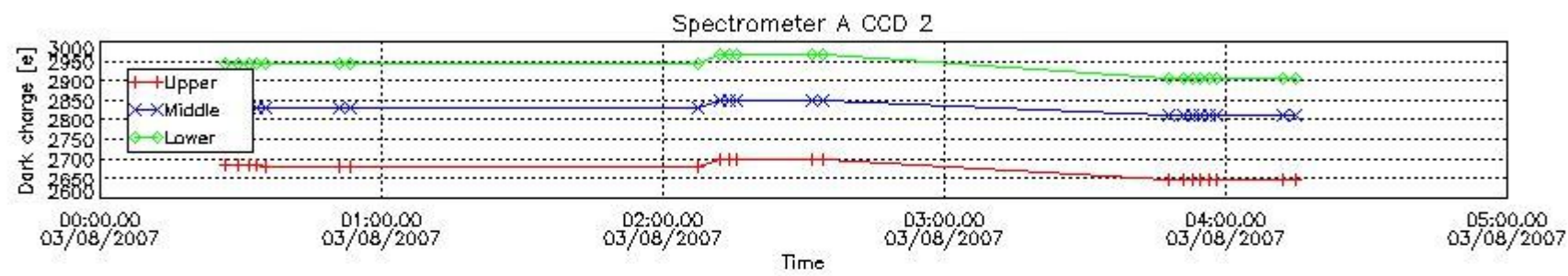
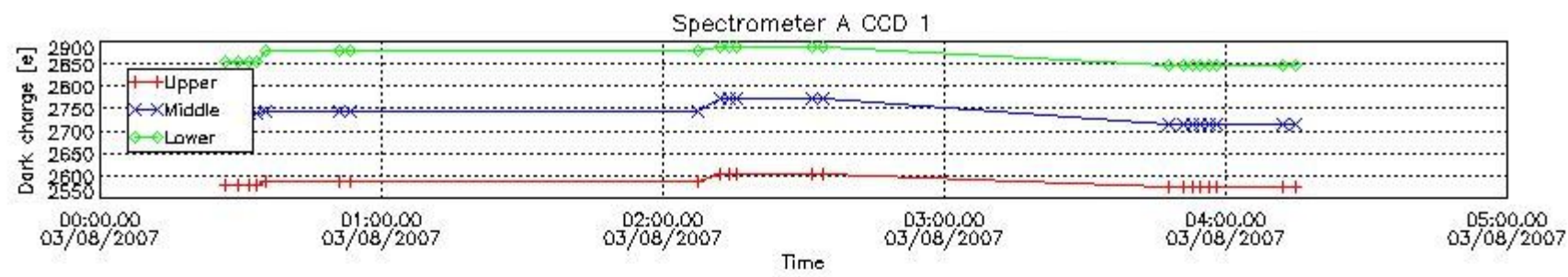
4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 All products used the DSA observation for the DC computation

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



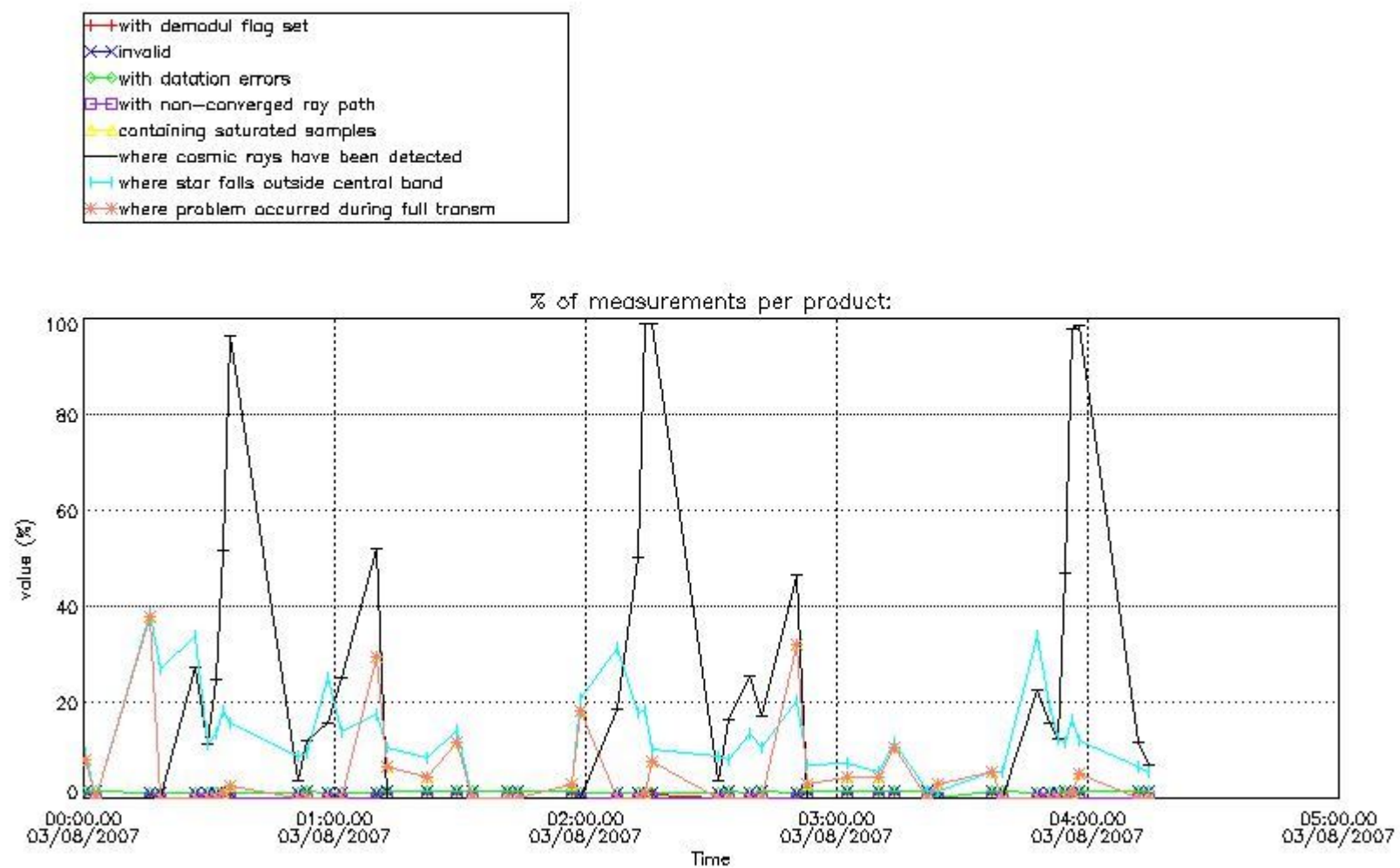
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

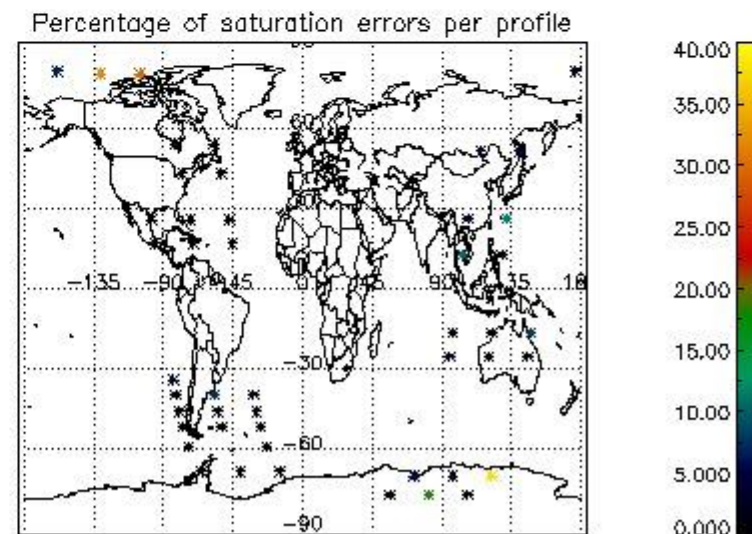
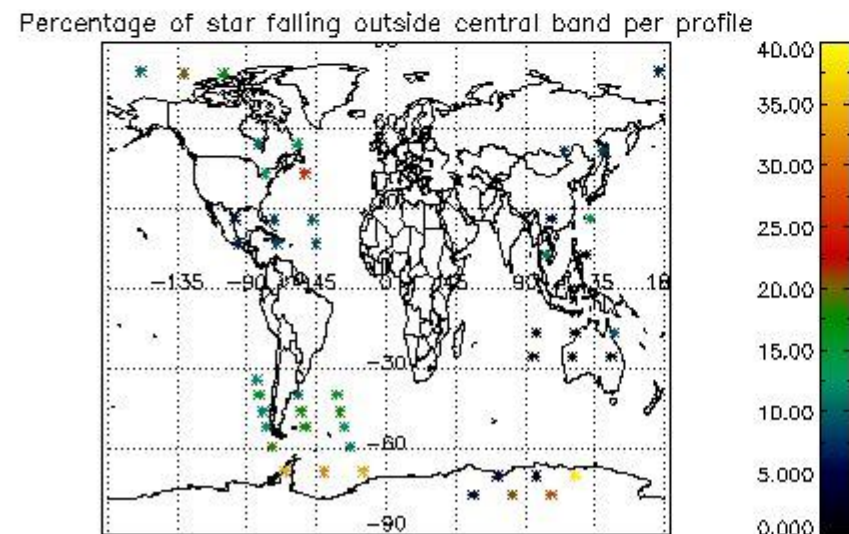
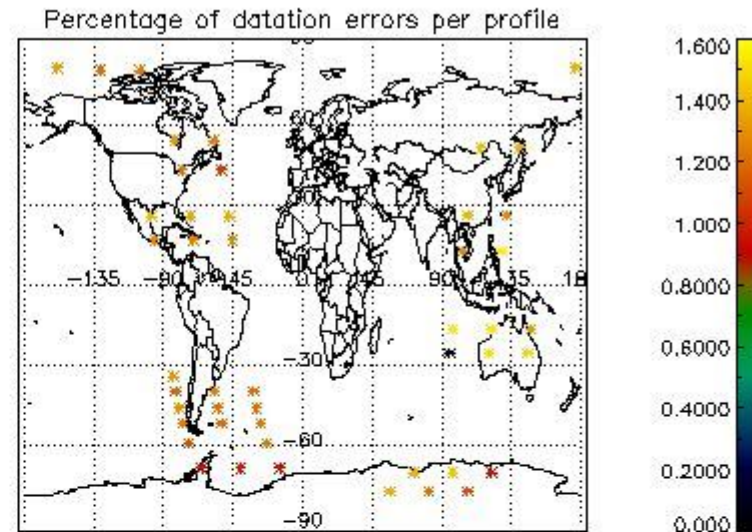
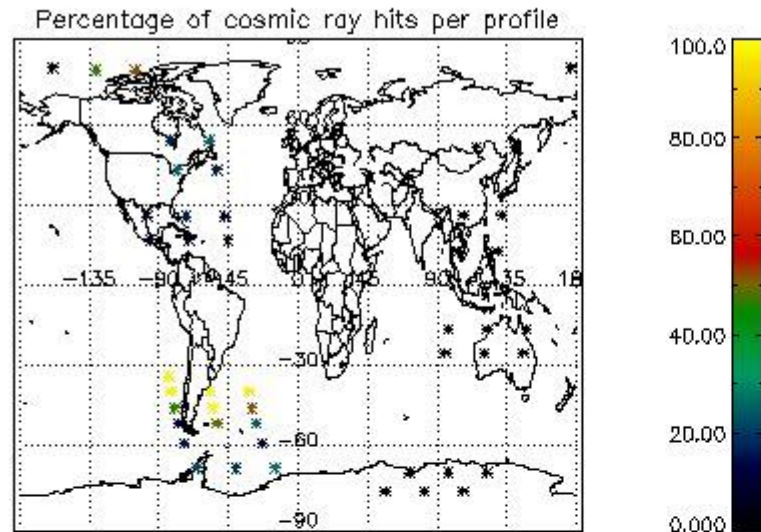
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.7660 %
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)



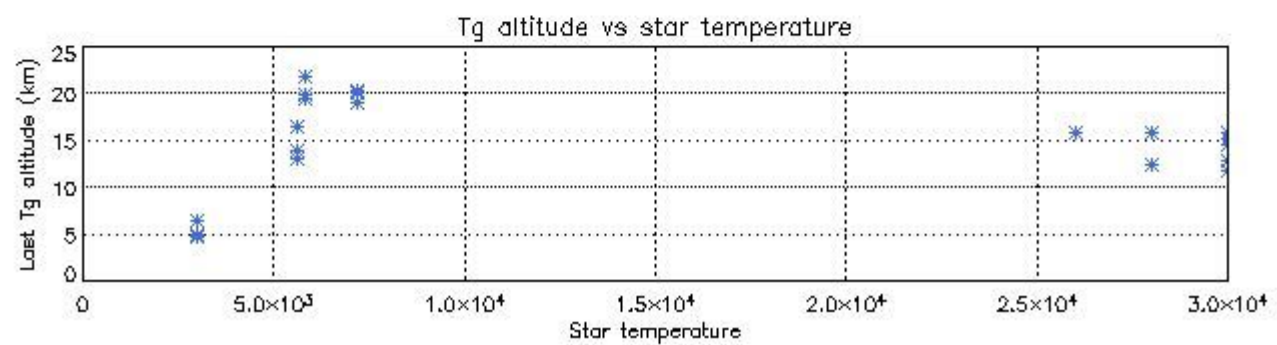
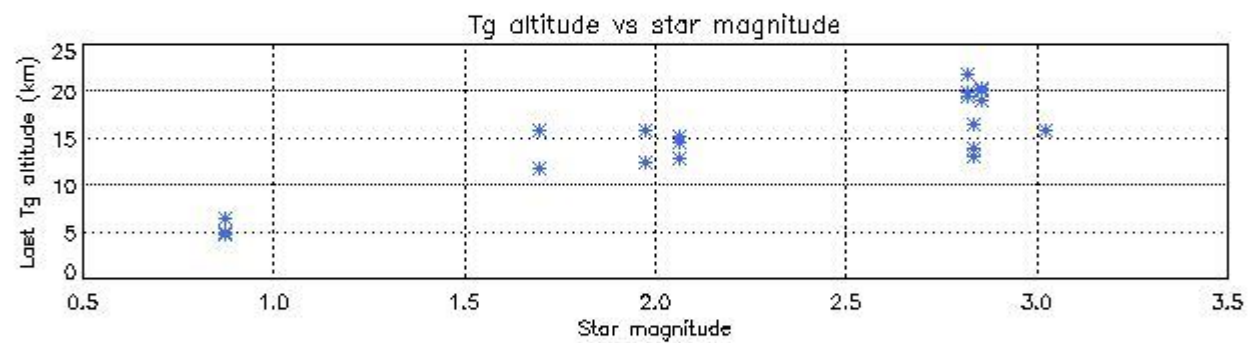
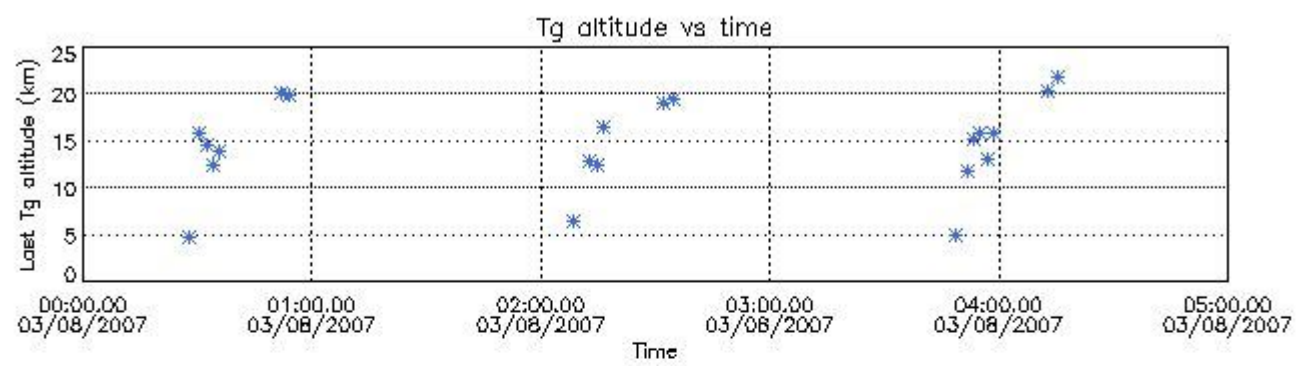
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.582	20.141	NaN
St. deviation:	4.8689	6.7031	NaN
Maximum:	21.766	29.654	NaN
Minimum:	4.7594	3.9495	NaN
Number of data:	21.000	22.000	NaN

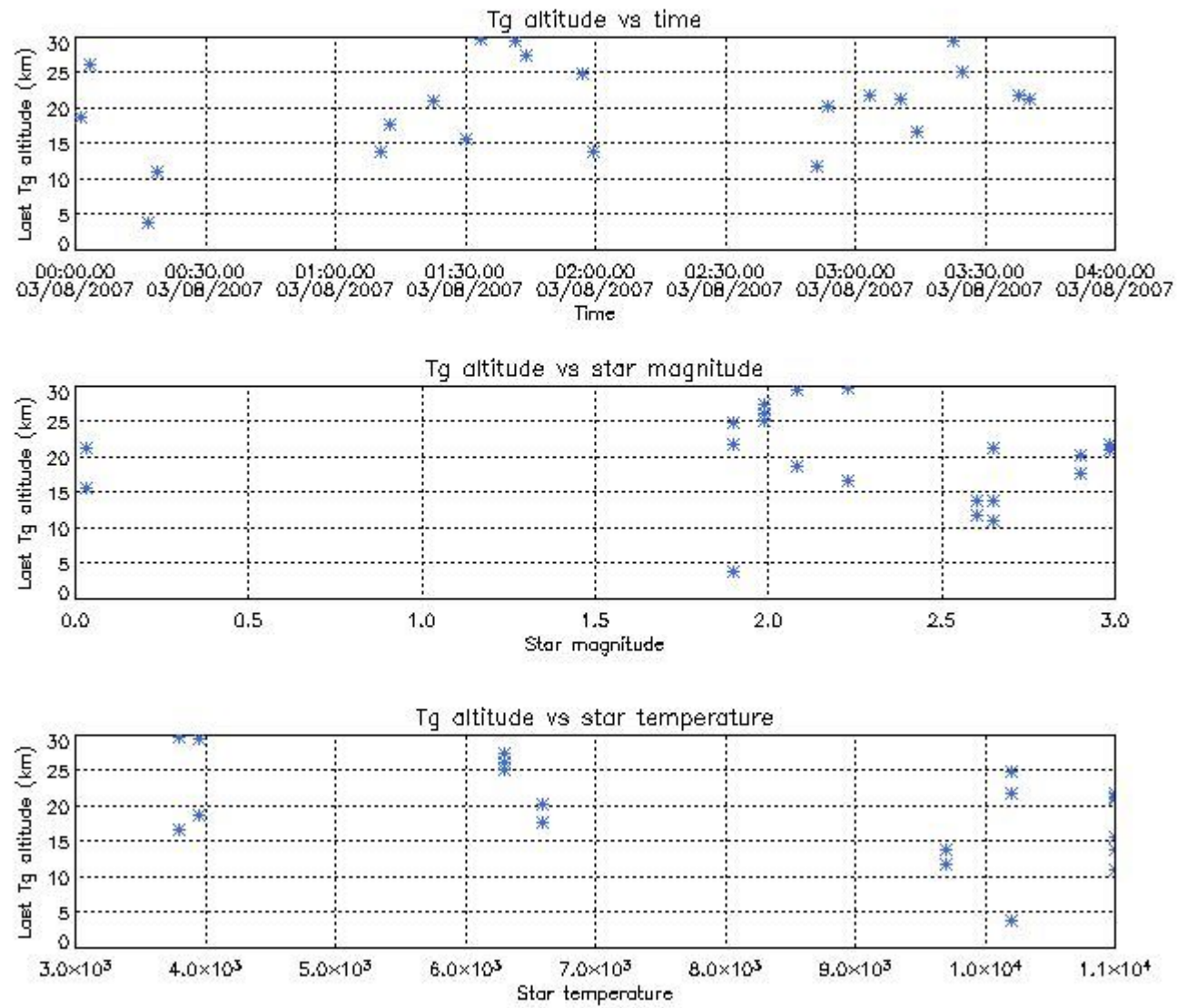
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

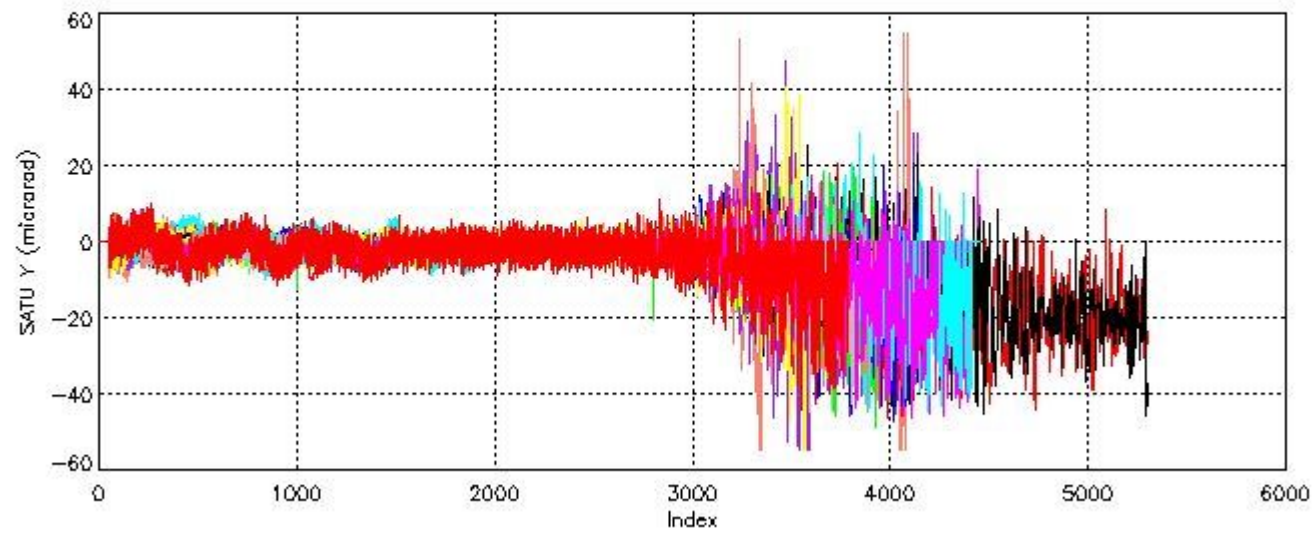
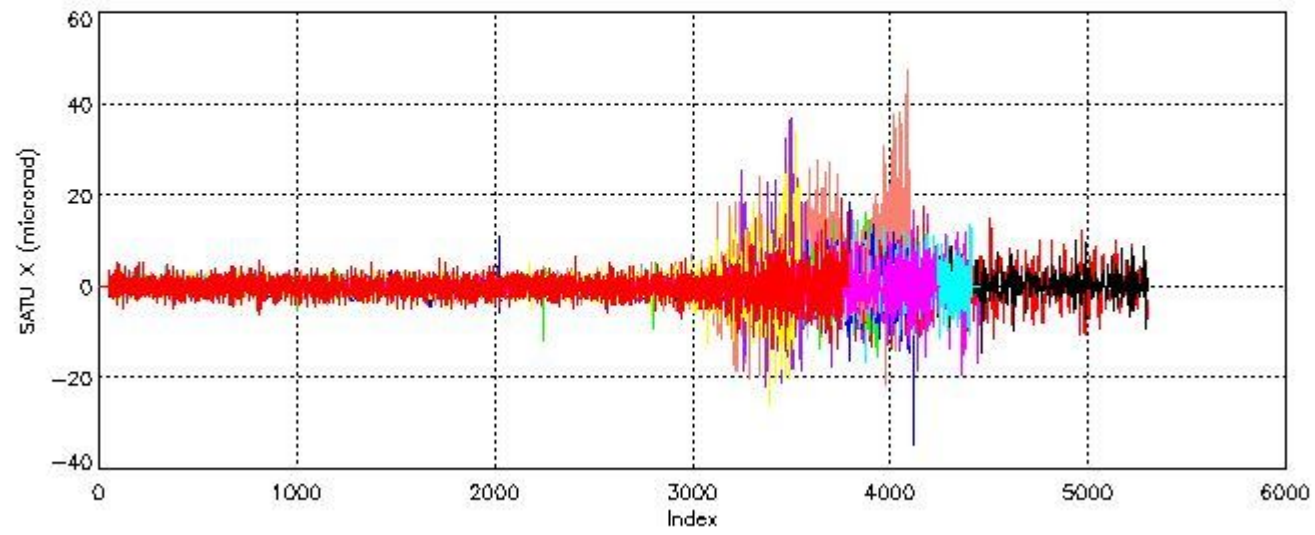


7. Star Acquisition and Tracking Unit (SATU)

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:	0.013313	-1.1999	0.0048600	-1.0244
St. deviation:	0.73160	2.7363	0.76762	2.9080
Maximum:	5.2000	10.400	5.5000	9.9000
Minimum:	-5.1000	-11.400	-6.0000	-14.600

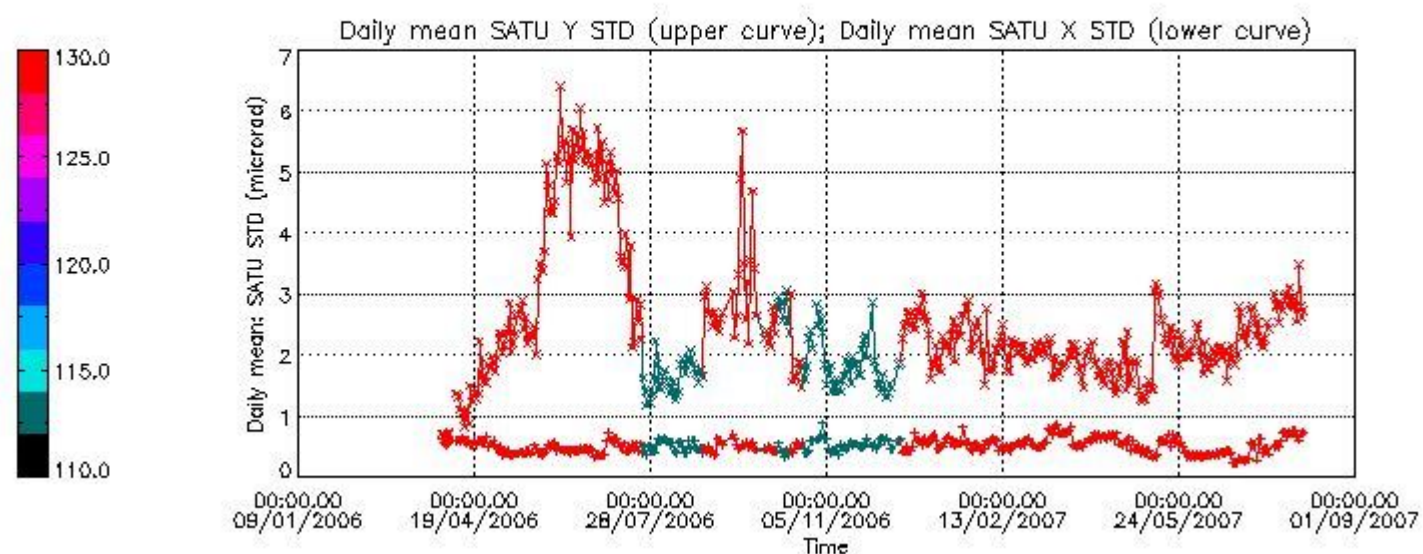
Number of data:	18550.	18550.	18300.	18300.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

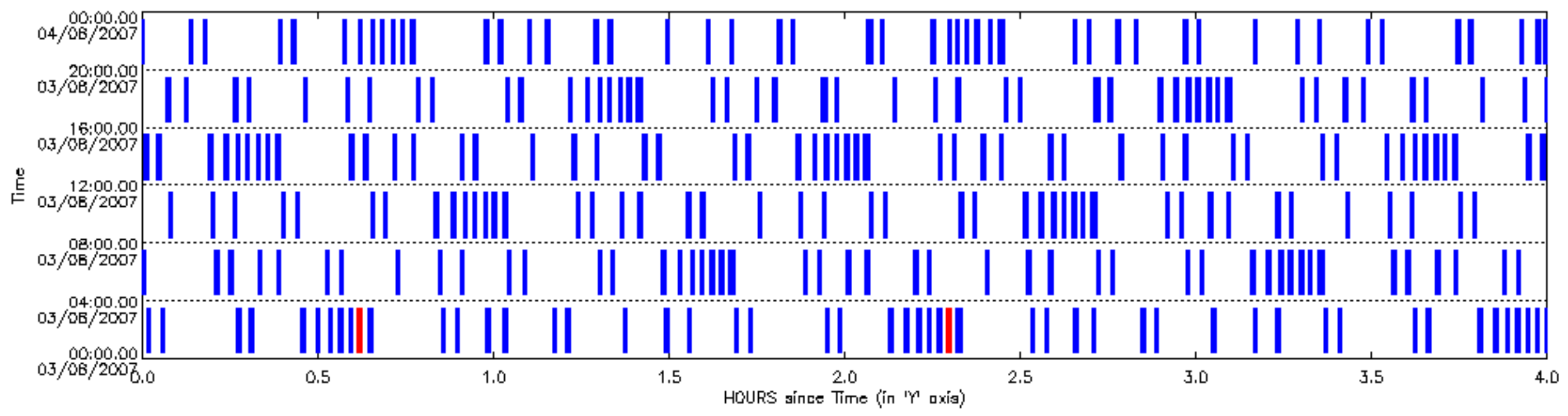
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

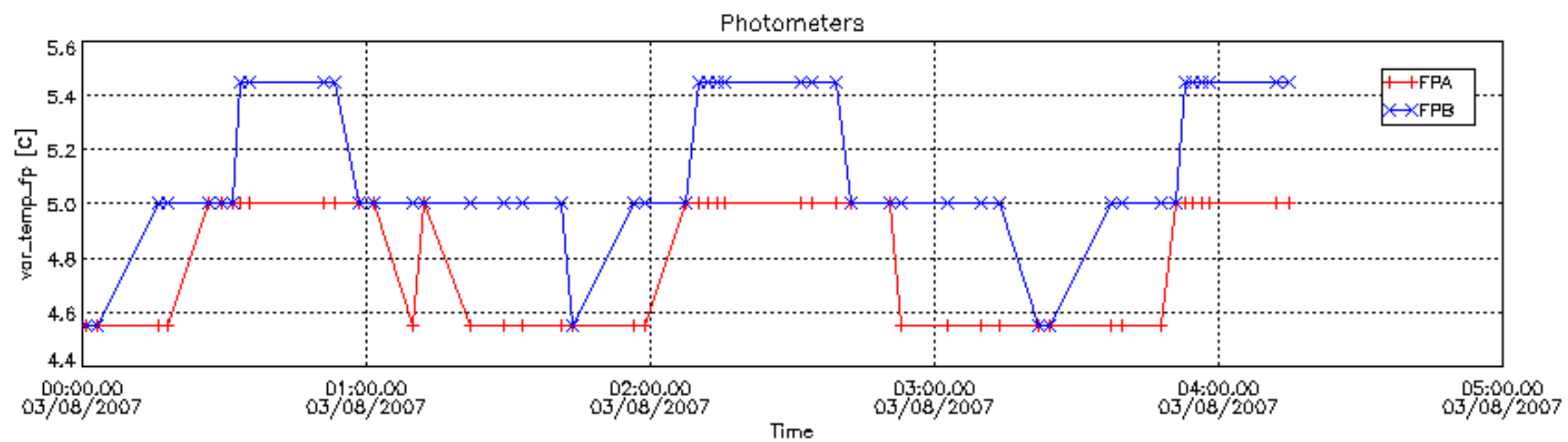
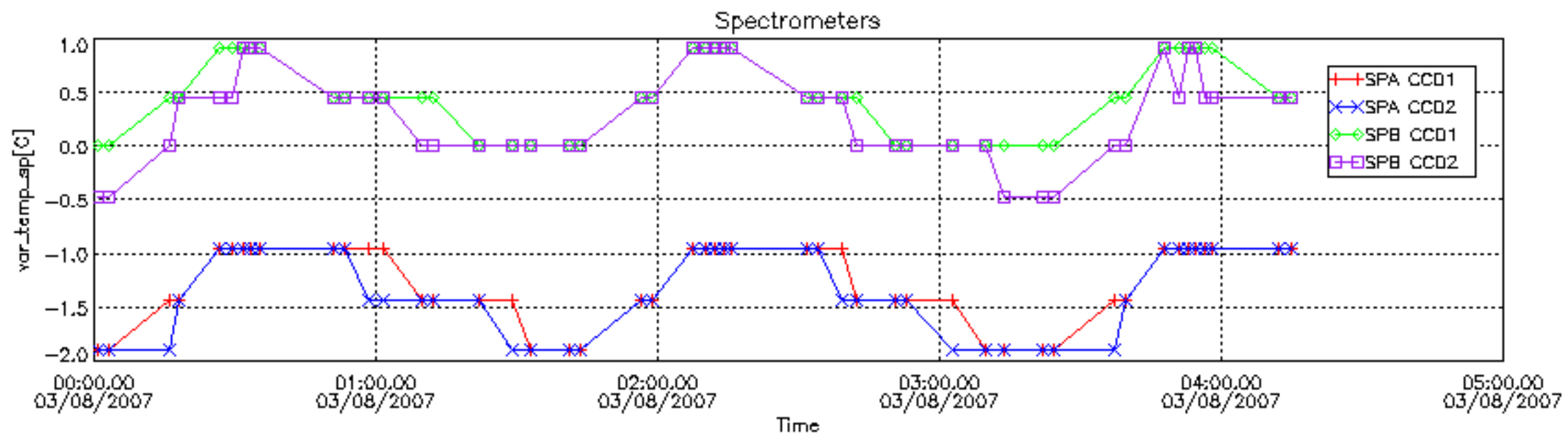


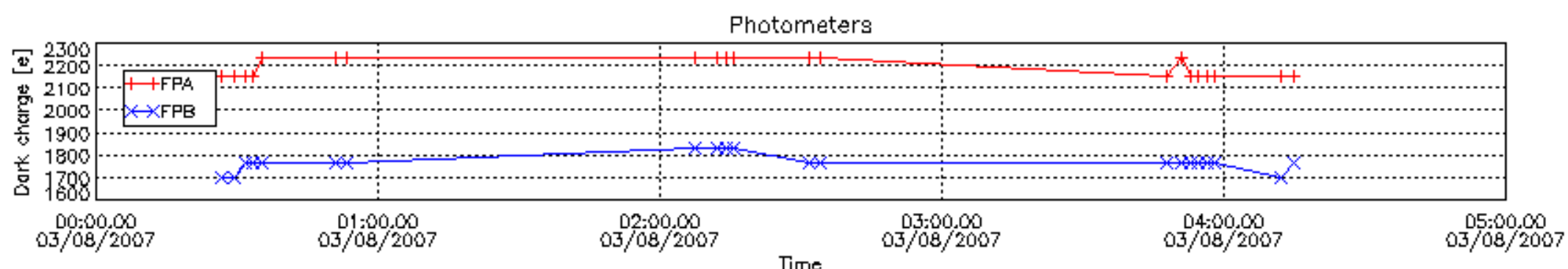
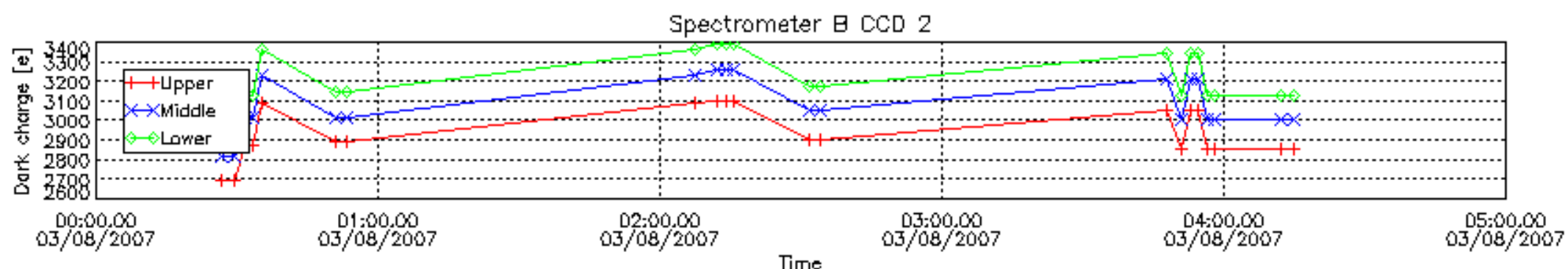
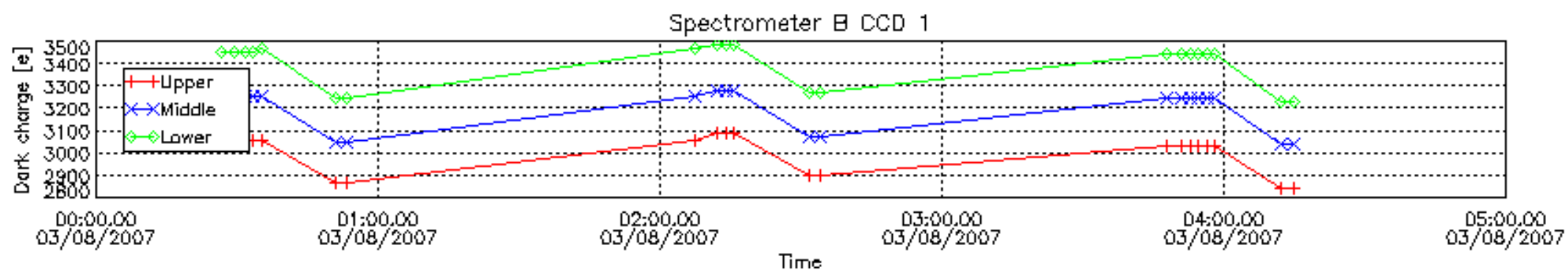
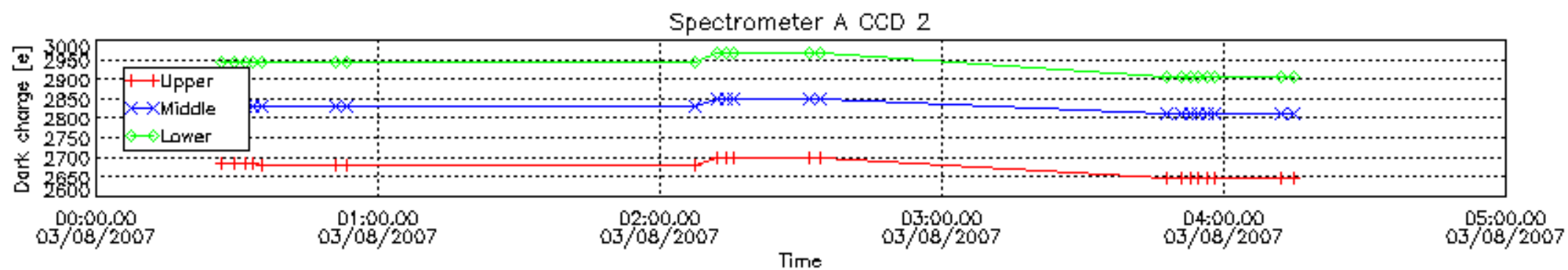
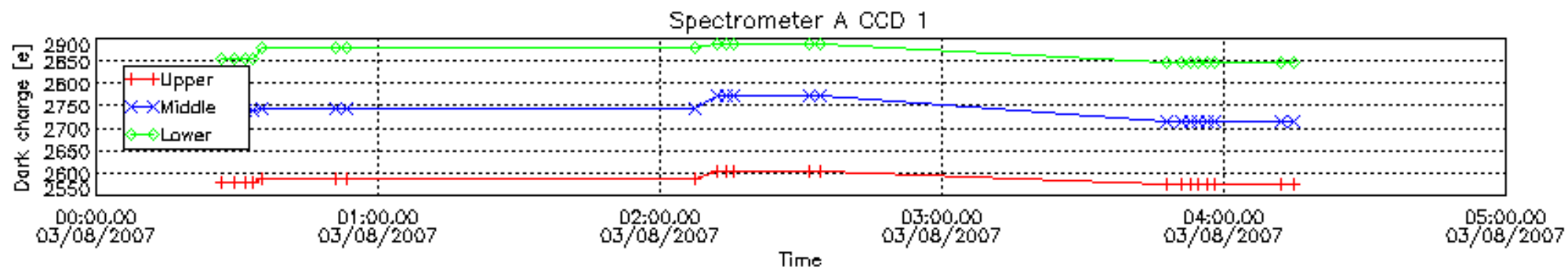
8. Auxiliary Data Files used for the production reported in section 2.4

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.

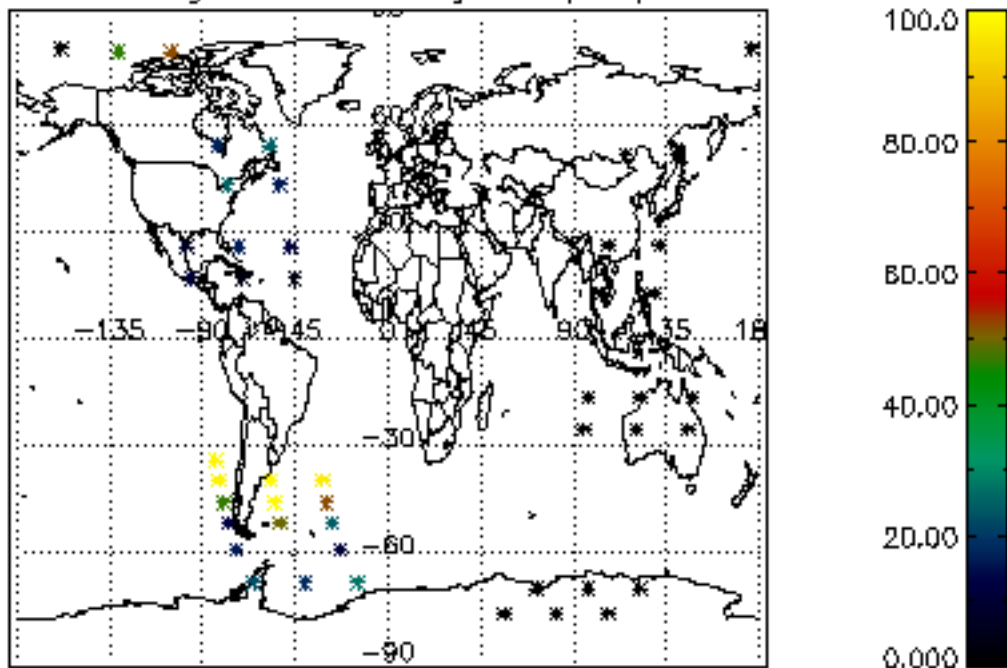
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	03-AUG-2007 00:00:36
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070726_133456_20070725_000000_20100101_000000	1	03-AUG-2007 00:00:36
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	03-AUG-2007 00:00:36
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-AUG-2007 00:00:36
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	03-AUG-2007 00:00:36
ECMWF_FILE	AUX_ECF_AXNECM20070802_062111_20070802_210000_20070803_090000	1	03-AUG-2007 00:00:36
ECMWF_FILE	AUX_ECF_AXNECM20070802_182112_20070803_030000_20070803_150000	39	03-AUG-2007 03:37:10
OPTIONAL_ECMWF_FILE	MISSING	1	03-AUG-2007 00:00:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070802_210407_000060572060_00243_28353_3889.N1	1	03-AUG-2007 00:00:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070802_225023_000057382060_00244_28354_3890.N1	9	03-AUG-2007 00:35:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070803_003120_000054192060_00245_28355_3891.N1	24	03-AUG-2007 02:10:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070803_020658_000044632060_00246_28356_3892.N1	39	03-AUG-2007 03:37:10



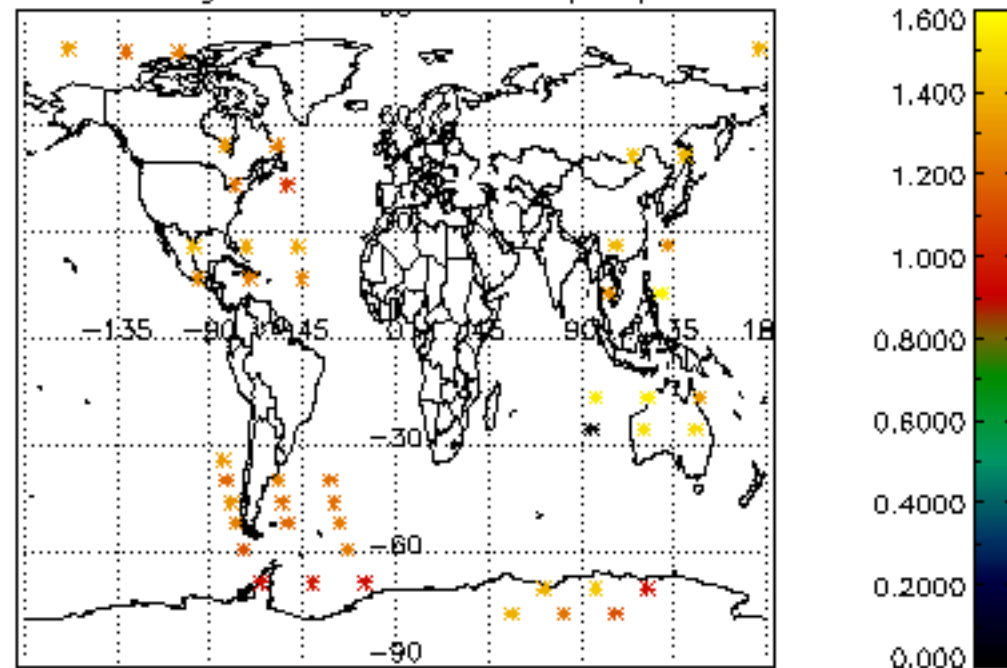




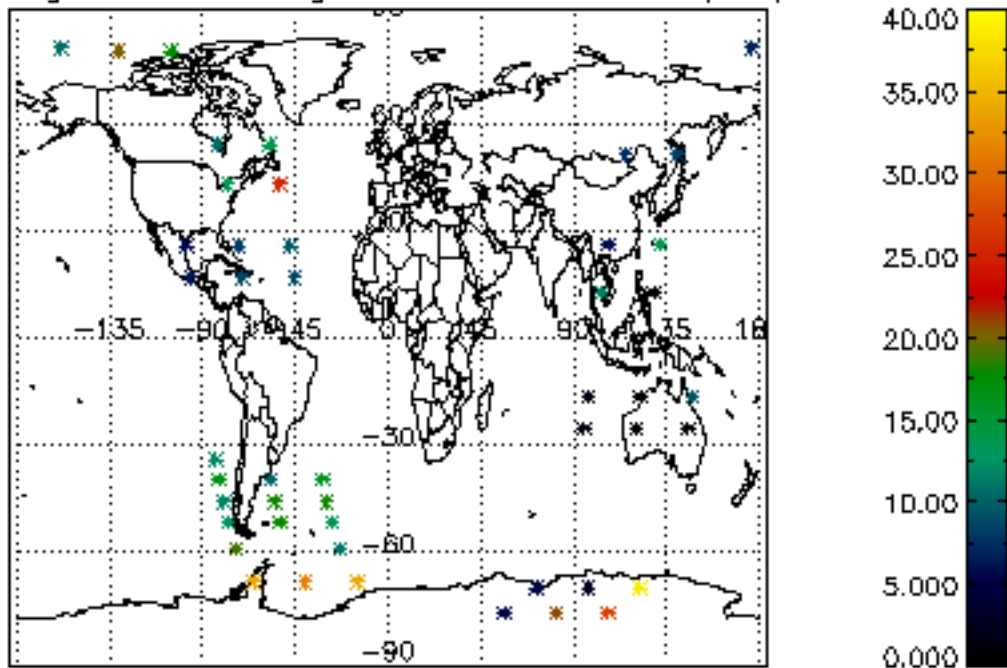
Percentage of cosmic ray hits per profile



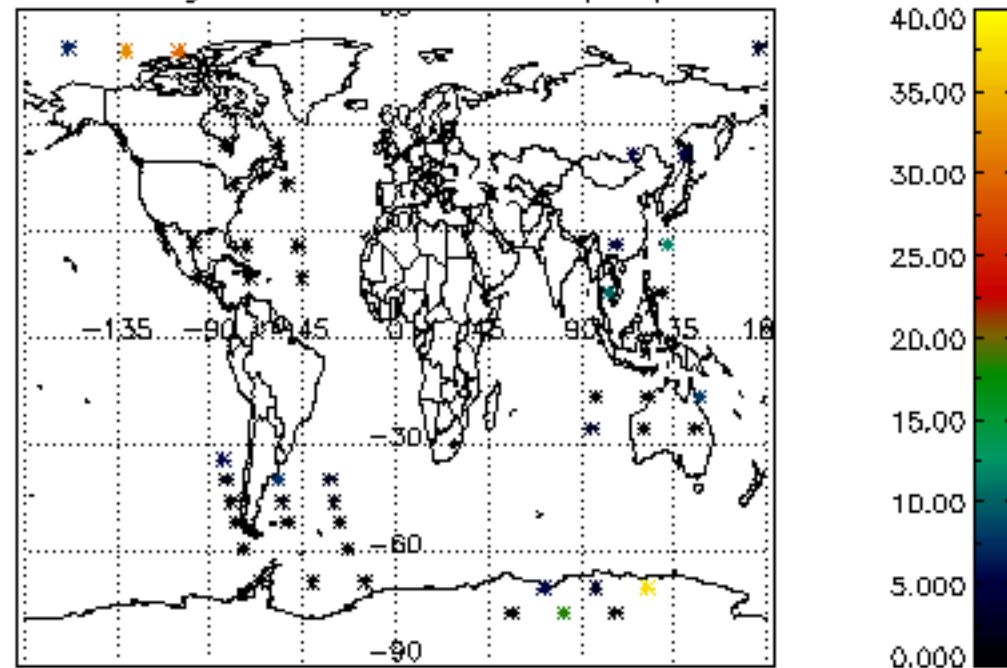
Percentage of datation errors per profile



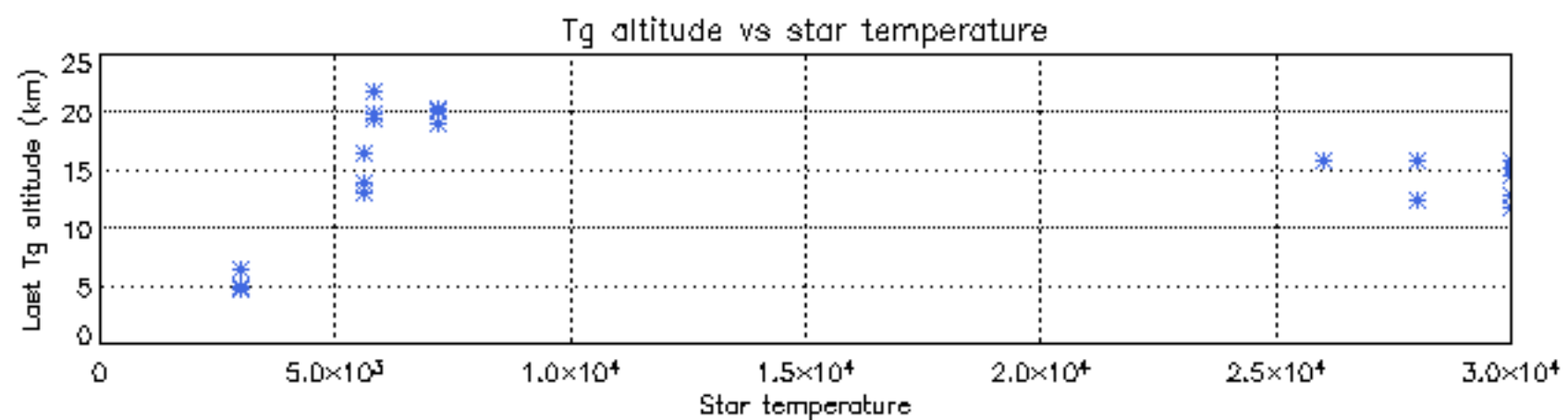
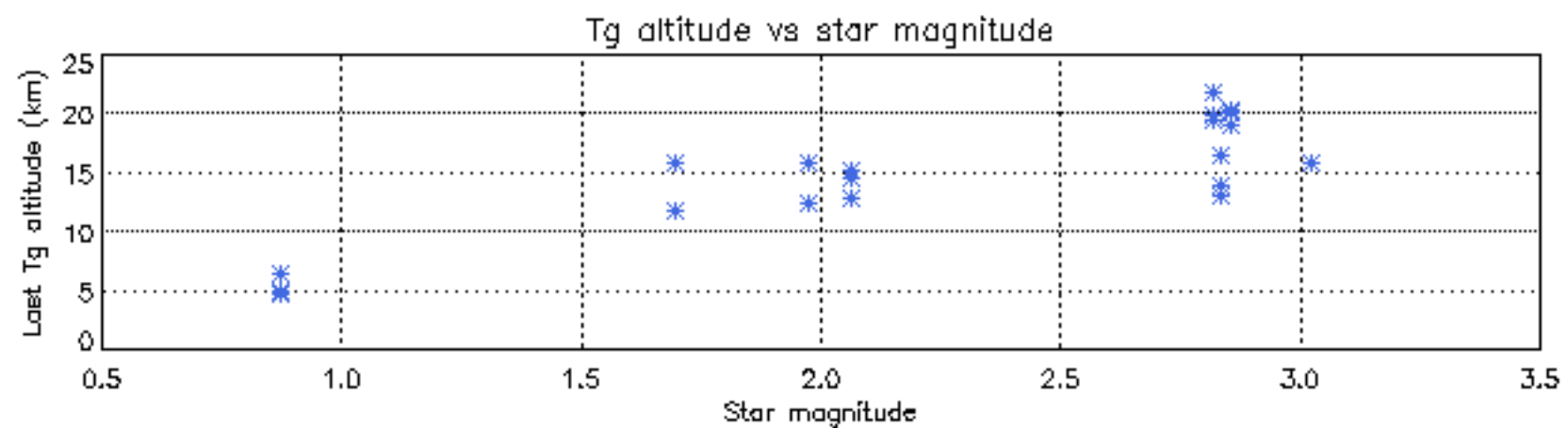
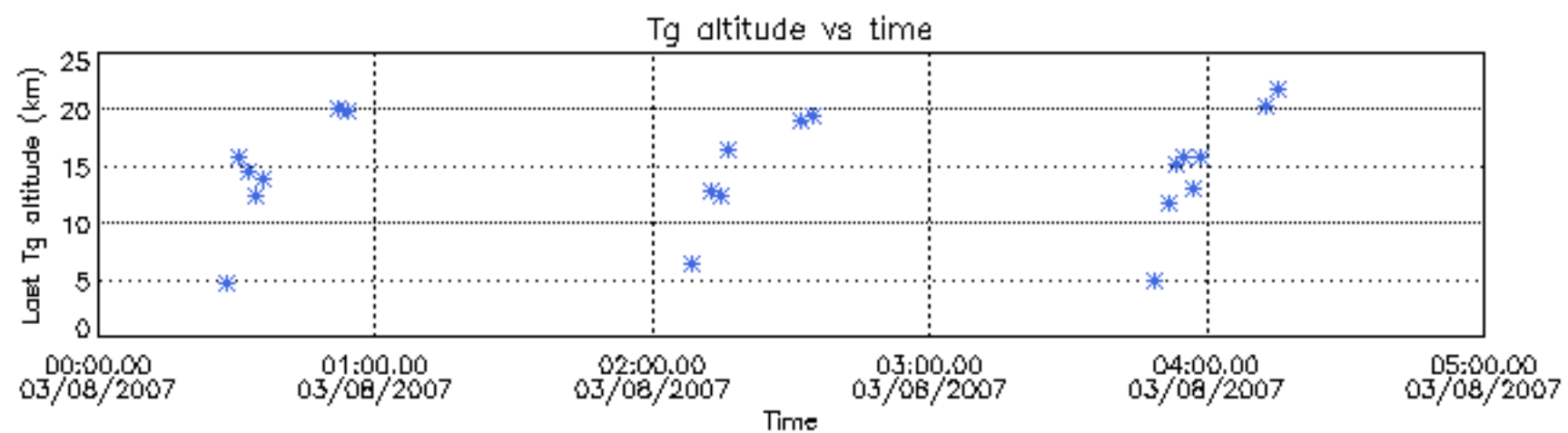
Percentage of star falling outside central band per profile



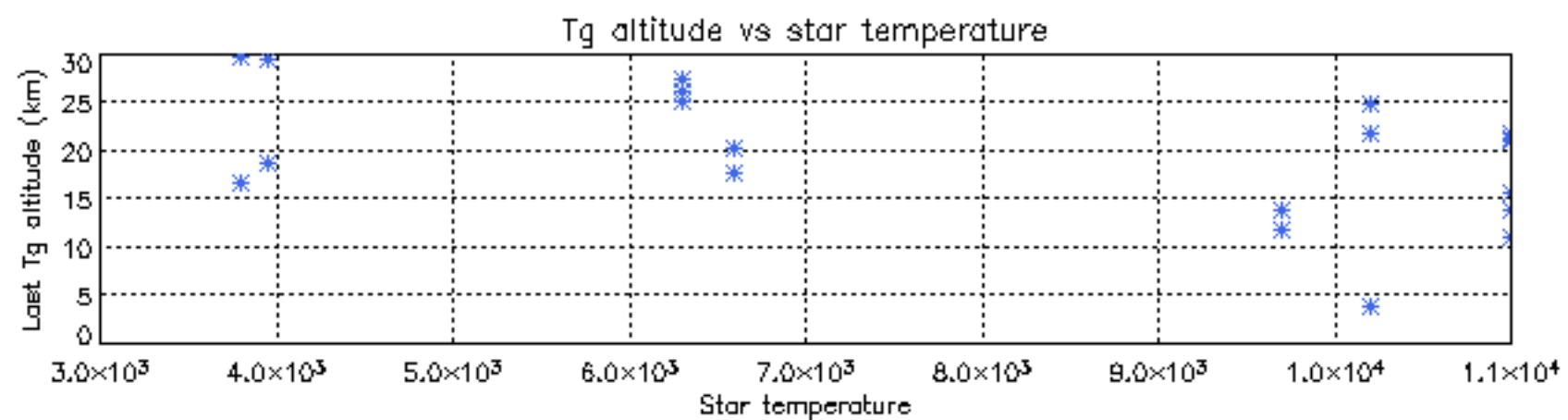
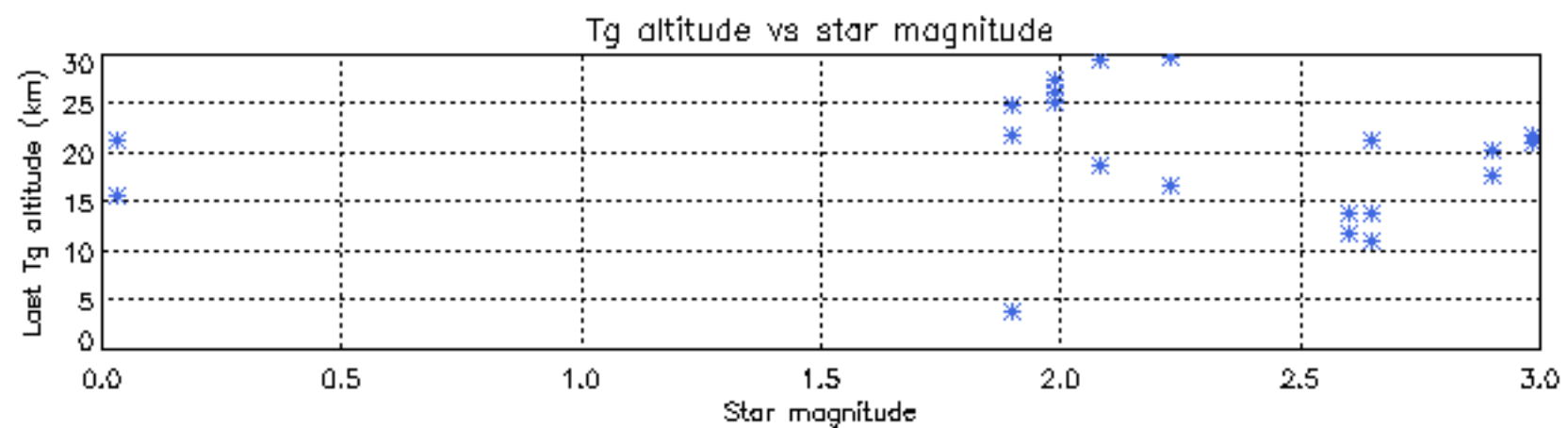
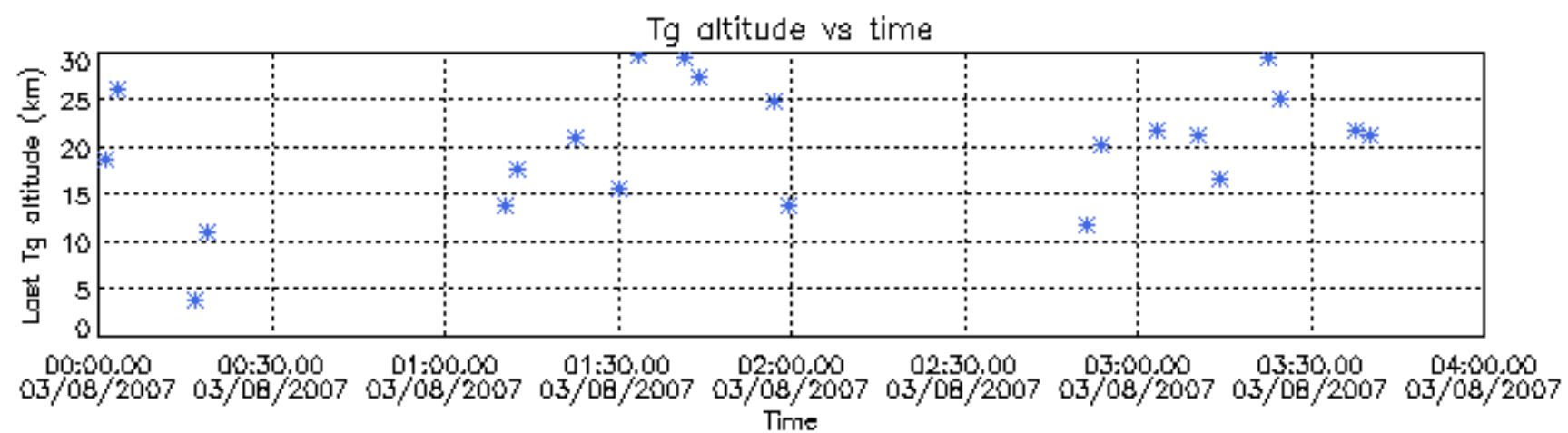
Percentage of saturation errors per profile

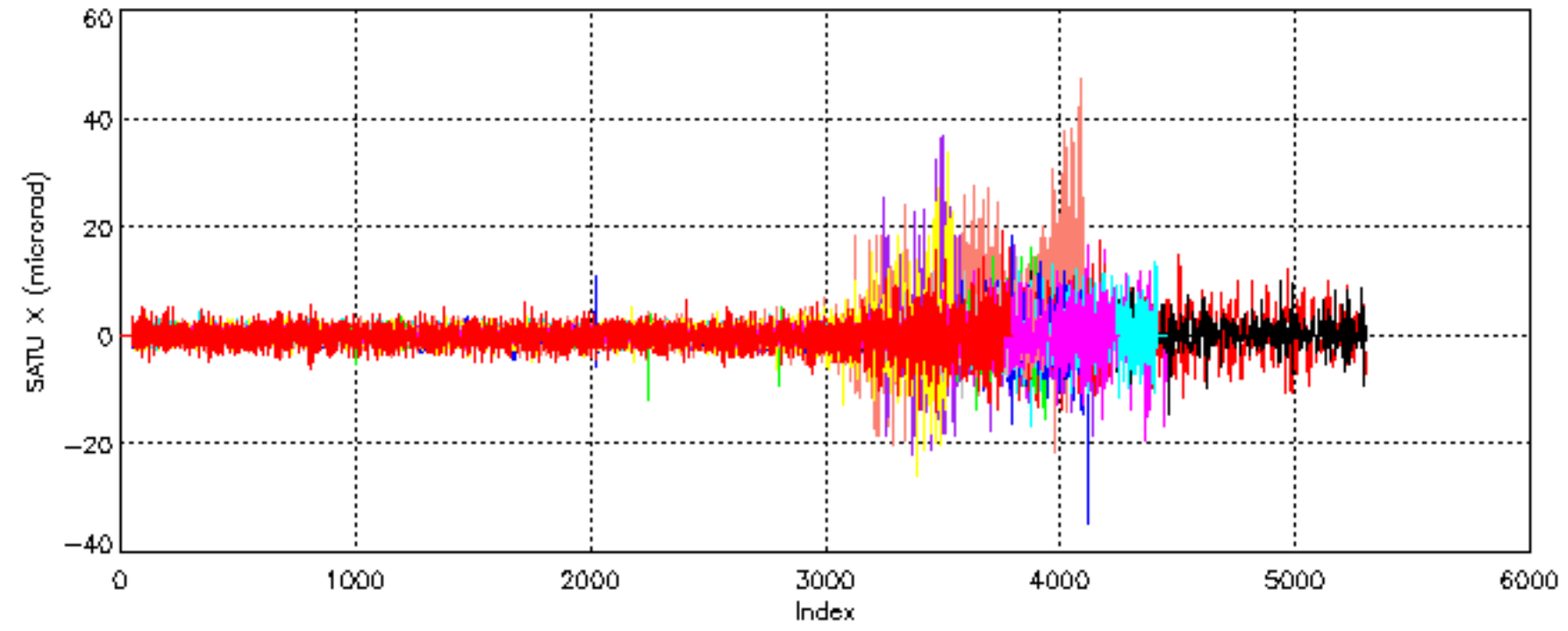


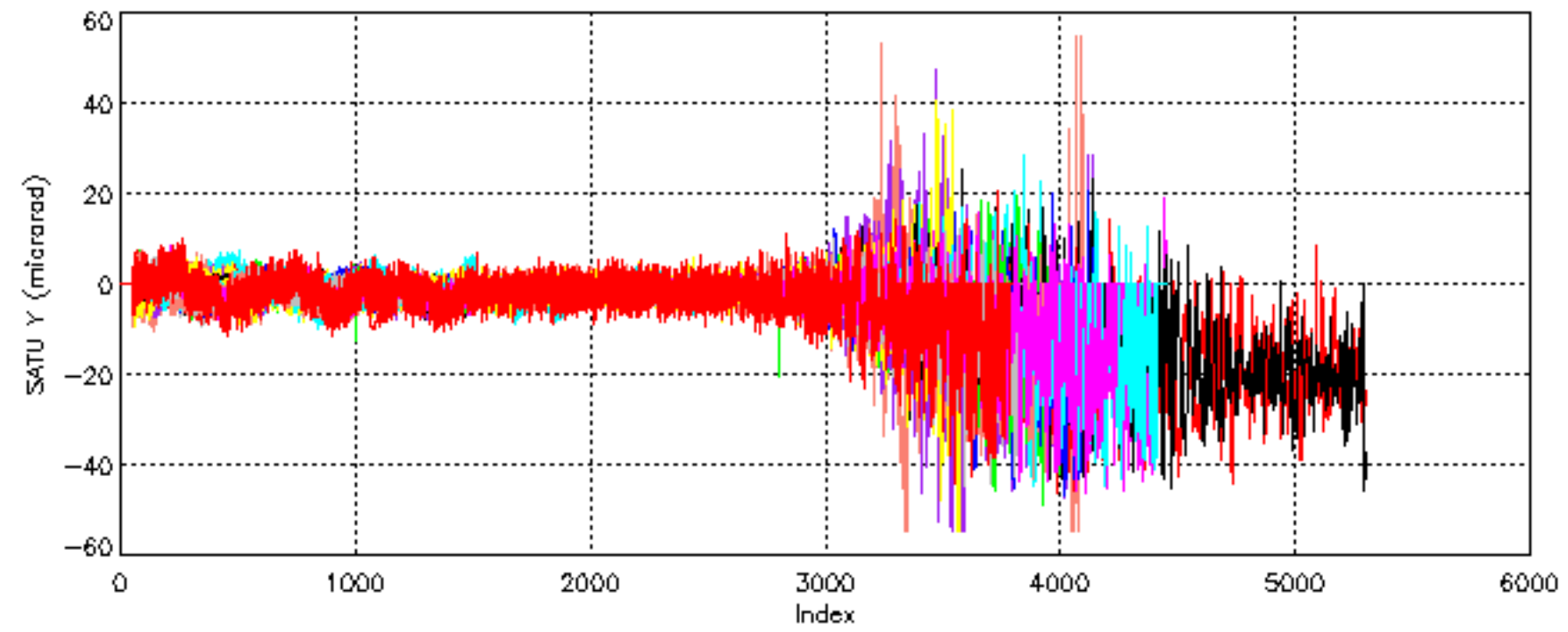
Tangent altitude at which the star is lost

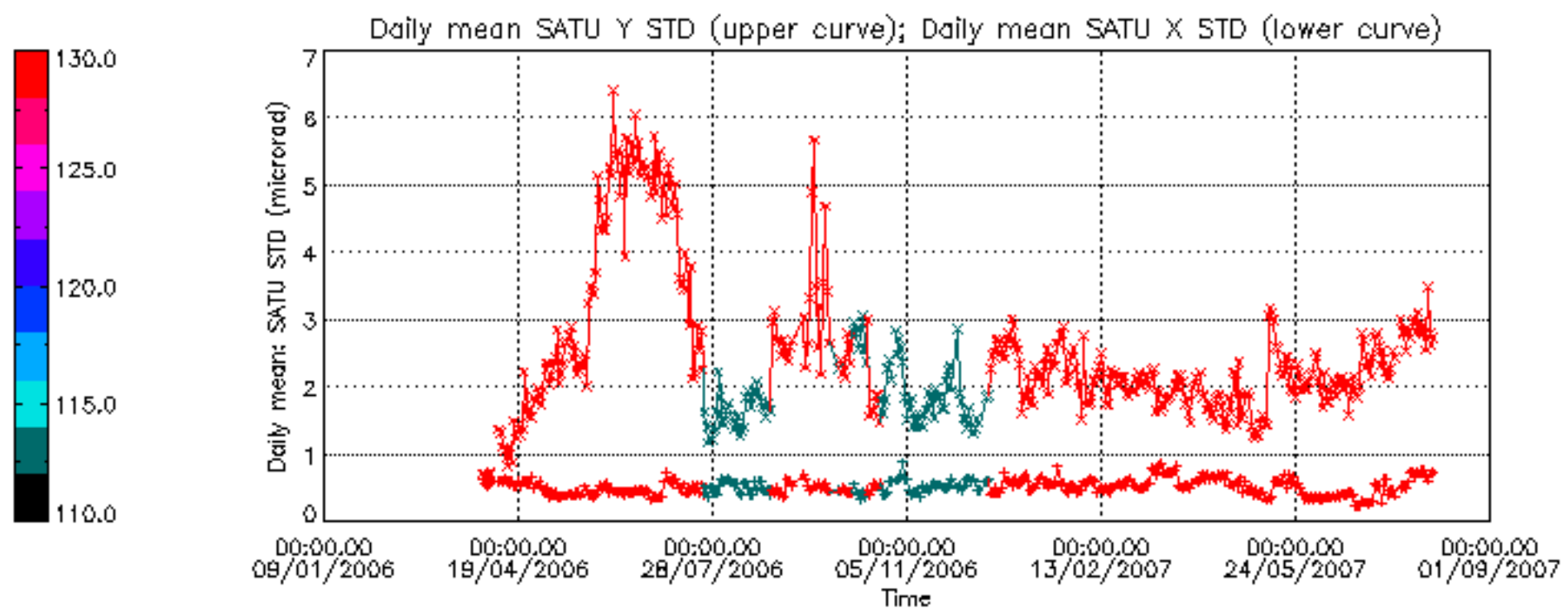


Tangent altitude at which the star is lost









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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

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070801_025946_000053002060_00218_28328_4075.N1

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 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
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 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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 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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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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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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16; 5359.1; 01-AUG-2007 18:24:16; Dark ; 42.5; 139; 9Bet Lep ; 2.83; 5600;occ; 85; 0;28337
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5; 3439.4; 10-AUG-2007 13:07:43; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;28463
6; 4219.8; 10-AUG-2007 13:20:44; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;28463
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4; 2677.3; 10-AUG-2007 14:35:37; Bright; 34.0; 144; 18Del Cyg ; 2.86; 11000;occ; 68; 0;28464
5; 3439.4; 10-AUG-2007 14:48:19; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28464

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6; 4219.9; 10-AUG-2007 16:41:55; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;28465
7; 4360.5; 10-AUG-2007 16:44:16; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;28465
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6; 3439.4; 10-AUG-2007 18:09:31; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28466
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4; 2677.0; 10-AUG-2007 19:37:25; Bright; 34.5; 144; 18Del Cyg ; 2.86; 11000;occ; 69; 0;28467
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 12; 4705.8; 11-AUG-2007 21:20:12; Dark ; 40.5; 44; 24Gam Gem ; 1.93; 11000;occ; 81; 0;28482
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16; 4220.1; 11-AUG-2007 22:52:42; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;28483
17; 4361.7; 11-AUG-2007 22:55:04; Bright; 43.0; 107; 37The Aur ; 2.65; 11000;occ; 86; 0;28483
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12; 774.7; 11-AUG-2007 06:49:54; Dark ; 38.5; 148; Alp Tuc ; 2.88; 4100;occ; 77; 0;28474
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3; 2590.0; 11-AUG-2007 07:20:09; Bright; 39.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 78; 0;28474
4; 2676.7; 11-AUG-2007 07:21:36; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;28474
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7; 4361.4; 11-AUG-2007 07:49:40; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;28474
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 3; 2590.4; 11-AUG-2007 10:41:21; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;28476
 4; 2676.5; 11-AUG-2007 10:42:47; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;28476
 5; 3439.3; 11-AUG-2007 10:55:30; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28476
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3; 987.6; 11-AUG-2007 16:57:02; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;28480
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3; 2520.2; 11-AUG-2007 17:22:35; Bright; 40.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 81; 0;28480
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10; 4605.9; 30-AUG-2007 14:39:00; Dark ; 47.5; 170; 27Eps Gem ; 3.00; 9700;occ; 95; 0;28750
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3; 1805.7; 30-AUG-2007 15:32:55; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28751
4; 1896.6; 30-AUG-2007 15:34:26; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28751
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3; 1805.6; 30-AUG-2007 17:13:31; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28752
4; 1896.7; 30-AUG-2007 17:15:02; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28752
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6; 2486.7; 30-AUG-2007 17:24:52; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28752
7; 2677.6; 30-AUG-2007 17:28:03; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;28752
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12; 4606.5; 30-AUG-2007 19:40:48; Dark ; 46.5; 170; 27Eps Gem ; 3.00; 9700;occ; 93; 0;28753
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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