

GOMOS Daily Report 10-AUG-2007

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

[4. Dark Charge monitoring](#)

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

[4.2 Plot of Dark Charge](#)

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

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

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

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

[6. Star tangent altitude lost](#)

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

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

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

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

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

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

[7.2 SATU Noise Equivalent Angle statistics](#)

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

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

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

[Level 2 products](#)

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

Item	Value
Time of report generation	12AUG2007 05:35:59
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (10AUG2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (11AUG2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	0

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

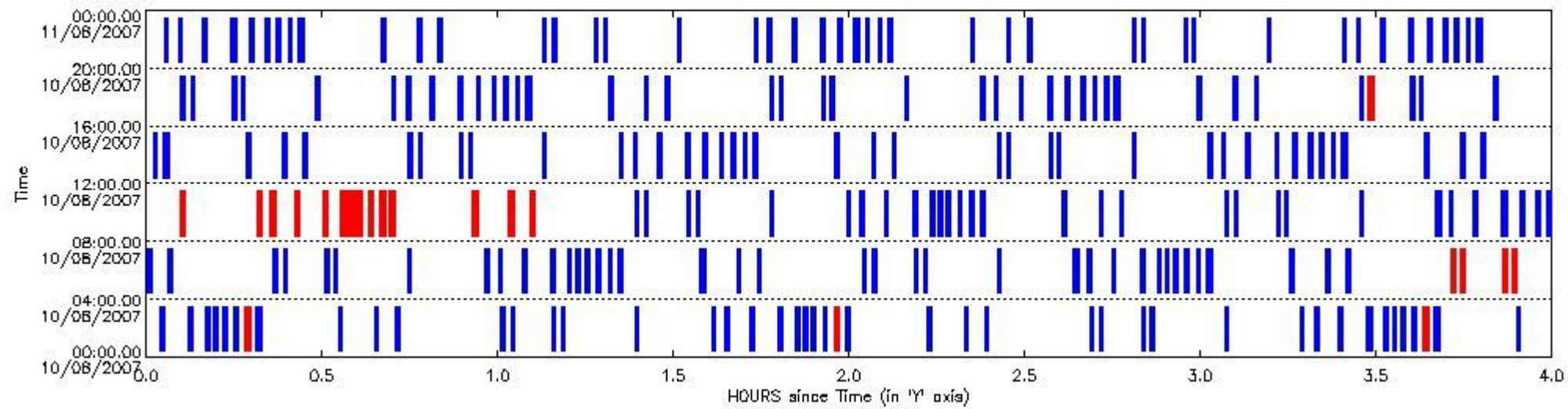
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



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

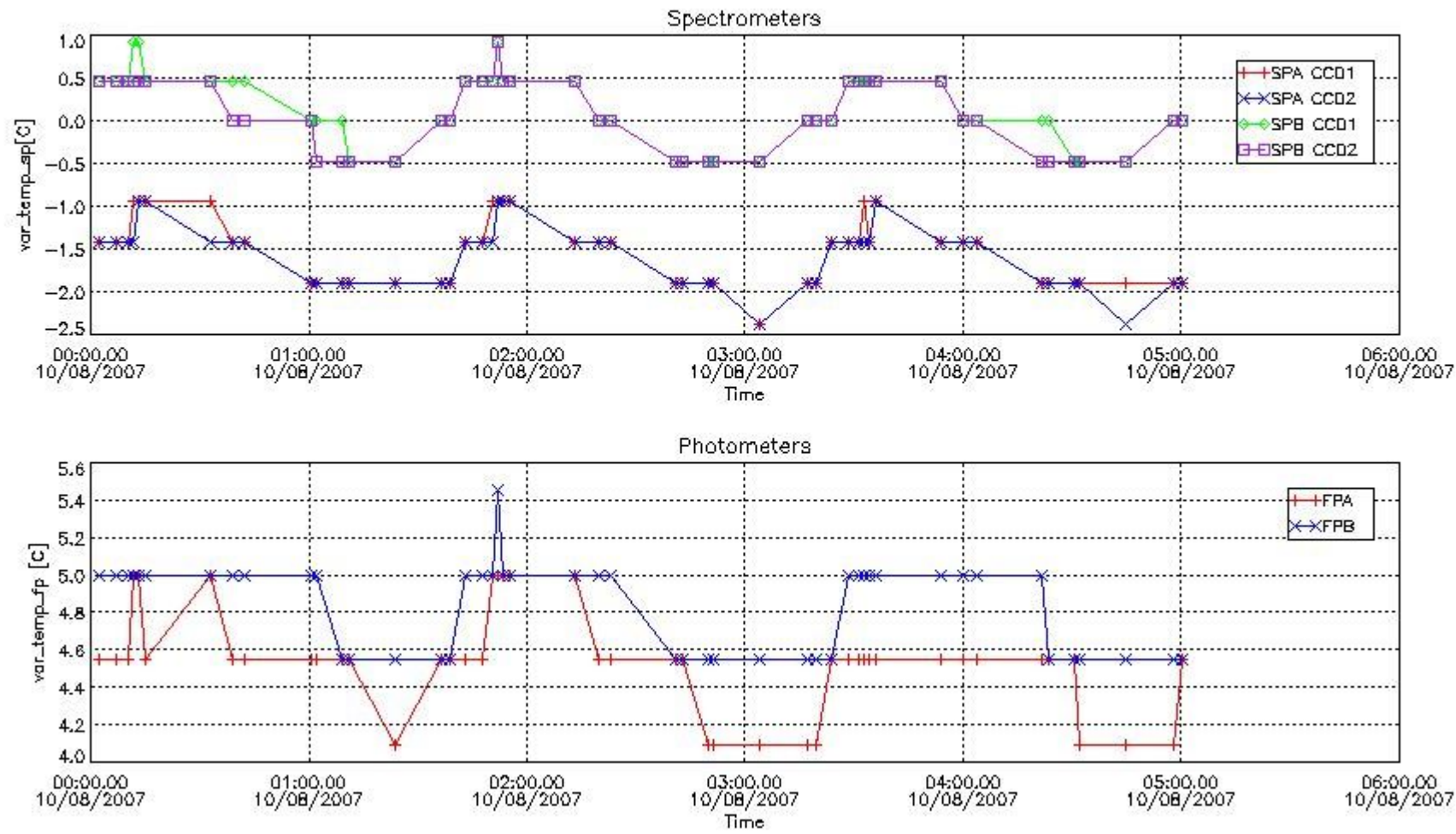
UTC start time	Star name	Star ID	Orbit
10-AUG-2007 00:16:52	1ZetCMa	177	28455
10-AUG-2007 01:57:28	1ZetCMa	177	28456
10-AUG-2007 03:38:05	1ZetCMa	177	28457
10-AUG-2007 07:42:46	53AlpAql	11	28460
10-AUG-2007 07:44:26	17ZetAql	168	28460
10-AUG-2007 07:51:35	3AlpLyr	5	28460
10-AUG-2007 07:53:05	18DelCyg	144	28460
10-AUG-2007 08:05:47	1AlpUMi	49	28460
10-AUG-2007 08:18:47	34BetAur	42	28460
10-AUG-2007 08:21:07	37TheAur	107	28460
10-AUG-2007 08:25:15	13MuGem	151	28460
10-AUG-2007 08:30:05	58AlpOri	14	28460
10-AUG-2007 08:33:09	50ZetOri	33	28460
10-AUG-2007 08:34:26	44IotOri	125	28460
10-AUG-2007 08:35:53	9AlpCMa	1	28460

10-AUG-2007 08:37:49	11AlpLep	101	28460
10-AUG-2007 08:39:53	1ZetCMa	177	28460
10-AUG-2007 08:41:32	DSA1059	0	28460
10-AUG-2007 08:55:38	AlpEri	9	28461
10-AUG-2007 09:01:53	AlpTuc	148	28461
10-AUG-2007 09:05:23	AlpGru	31	28461
10-AUG-2007 19:28:39	17ZetAql	168	28467

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_1PNPDE20070810_000223_000000382060_00345_28455_1100.N1	10-AUG-2007 00:02:23	Bright	38.000	151	13Mu Gem	2.8900	3000.0	76	28455	No
2	GOM_TRA_1PNPDE20070810_000712_000000482060_00345_28455_1101.N1	10-AUG-2007 00:07:12	Dark	47.500	14	58Alp Ori	0.87000	3000.0	95	28455	No
3	GOM_TRA_1PNPDE20070810_001010_000000452060_00345_28455_1102.N1	10-AUG-2007 00:10:10	Dark	44.500	30	46Eps Ori	1.6940	30000.	89	28455	No
4	GOM_TRA_1PNPDE20070810_001132_000000432060_00345_28455_1103.N1	10-AUG-2007 00:11:32	Dark	42.500	125	44Iot Ori	2.7700	30000.	85	28455	No
5	GOM_TRA_1PNPDE20070810_001300_000000482060_00345_28455_1237.N1	10-AUG-2007 00:13:00	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	28455	No
6	GOM_TRA_1PNPDE20070810_001455_000000412060_00345_28455_1238.N1	10-AUG-2007 00:14:55	Dark	41.000	101	11Alp Lep	2.5820	7000.0	82	28455	No
7	GOM_TRA_1PNPDE20070810_003244_000000442060_00346_28456_1239.N1	10-AUG-2007 00:32:44	Dark	44.000	9	Alp Eri	0.45300	24000.	88	28456	No
8	GOM_TRA_1PNPDE20070810_003900_000000402060_00346_28456_1240.N1	10-AUG-2007 00:39:00	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	28456	No
9	GOM_TRA_1PNPDE20070810_004230_000000462060_00346_28456_1241.N1	10-AUG-2007 00:42:30	Straylight	45.500	31	Alp Gru	1.7340	15200.	91	28456	No
10	GOM_TRA_1PNPDE20070810_010030_000000372060_00346_28456_1242.N1	10-AUG-2007 01:00:30	Bright	36.500	11	53Alp Aql	0.76500	8000.0	73	28456	No
11	GOM_TRA_1PNPDE20070810_010210_000000332060_00346_28456_1243.N1	10-AUG-2007 01:02:10	Bright	33.000	168	17Zet Aql	2.9860	11000.	66	28456	No
12	GOM_TRA_1PNPDE20070810_010918_000000342060_00346_28456_1244.N1	10-AUG-2007 01:09:18	Bright	33.500	5	3Alp Lyr	0.033000	11000.	67	28456	No
13	GOM_TRA_1PNPDE20070810_011050_000000362060_00346_28456_1245.N1	10-AUG-2007 01:10:50	Bright	35.500	144	18Del Cyg	2.8600	11000.	71	28456	No
14	GOM_TRA_1PNPDE20070810_012332_000000362060_00346_28456_1246.N1	10-AUG-2007 01:23:32	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28456	No
15	GOM_TRA_1PNPDE20070810_013632_000000362060_00346_28456_1247.N1	10-AUG-2007 01:36:32	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	28456	No
16	GOM_TRA_1PNPDE20070810_013852_000000382060_00346_28456_1248.N1	10-AUG-2007 01:38:52	Bright	38.000	107	37The Aur	2.6490	11000.	76	28456	No
17	GOM_TRA_1PNPDE20070810_014259_000000432060_00346_28456_1249.N1	10-AUG-2007 01:42:59	Bright	43.000	151	13Mu Gem	2.8900	3000.0	86	28456	No
18	GOM_TRA_1PNPDE20070810_014748_000000562060_00346_28456_1250.N1	10-AUG-2007 01:47:48	Dark	56.000	14	58Alp Ori	0.87000	3000.0	112	28456	No
19	GOM_TRA_1PNPDE20070810_015046_000000462060_00346_28456_1251.N1	10-AUG-2007 01:50:46	Dark	46.000	30	46Eps Ori	1.6940	30000.	92	28456	No
20	GOM_TRA_1PNPDE20070810_015209_000000412060_00346_28456_1378.N1	10-AUG-2007 01:52:09	Dark	40.500	125	44Iot Ori	2.7700	30000.	81	28456	No
21	GOM_TRA_1PNPDE20070810_015336_000000462060_00346_28456_1379.N1	10-AUG-2007 01:53:36	Dark	45.500	1	9Alp CMa	-1.4400	11000.	91	28456	No
22	GOM_TRA_1PNPDE20070810_015531_000000432060_00346_28456_1380.N1	10-AUG-2007 01:55:31	Dark	43.000	101	11Alp Lep	2.5820	7000.0	86	28456	No
23	GOM_TRA_1PNPDE20070810_021320_000000432060_00347_28457_1381.N1	10-AUG-2007 02:13:20	Dark	43.000	9	Alp Eri	0.45300	24000.	86	28457	No
24	GOM_TRA_1PNPDE20070810_021936_000000432060_00347_28457_1382.N1	10-AUG-2007 02:19:36	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	28457	No
25	GOM_TRA_1PNPDE20070810_022306_000000422060_00347_28457_1383.N1	10-AUG-2007 02:23:06	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	28457	No
26	GOM_TRA_1PNPDE20070810_024106_000000372060_00347_28457_1384.N1	10-AUG-2007 02:41:06	Bright	37.000	11	53Alp Aql	0.76500	8000.0	74	28457	No
27	GOM_TRA_1PNPDE20070810_024246_000000352060_00347_28457_1385.N1	10-AUG-2007 02:42:46	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28457	No
28	GOM_TRA_1PNPDE20070810_024954_000000362060_00347_28457_1386.N1	10-AUG-2007 02:49:54	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	28457	No
29	GOM_TRA_1PNPDE20070810_025126_000000362060_00347_28457_1387.N1	10-AUG-2007 02:51:26	Bright	35.500	144	18Del Cyg	2.8600	11000.	71	28457	No
30	GOM_TRA_1PNPDE20070810_030407_000000352060_00347_28457_1388.N1	10-AUG-2007 03:04:07	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	28457	No
31	GOM_TRA_1PNPDE20070810_031708_000000362060_00347_28457_1500.N1	10-AUG-2007 03:17:08	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	28457	No
32	GOM_TRA_1PNPDE20070810_031928_000000492060_00347_28457_1501.N1	10-AUG-2007 03:19:28	Bright	49.000	107	37The Aur	2.6490	11000.	98	28457	No
33	GOM_TRA_1PNPDE20070810_032335_000000442060_00347_28457_1502.N1	10-AUG-2007 03:23:35	Bright	43.500	151	13Mu Gem	2.8900	3000.0	87	28457	No
34	GOM_TRA_1PNPDE20070810_032824_000000512060_00347_28457_1503.N1	10-AUG-2007 03:28:24	Dark	51.000	14	58Alp Ori	0.87000	3000.0	102	28457	No
35	GOM_TRA_1PNPDE20070810_033122_000000462060_00347_28457_1504.N1	10-AUG-2007 03:31:22	Dark	46.000	30	46Eps Ori	1.6940	30000.	92	28457	No
36	GOM_TRA_1PNPDE20070810_033245_000000442060_00347_28457_1505.N1	10-AUG-2007 03:32:45	Dark	44.000	125	44Iot Ori	2.7700	30000.	88	28457	No
37	GOM_TRA_1PNPDE20070810_033412_000000482060_00347_28457_1506.N1	10-AUG-2007 03:34:12	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	28457	No
38	GOM_TRA_1PNPDE20070810_033608_000000442060_00347_28457_1507.N1	10-AUG-2007 03:36:08	Dark	44.000	101	11Alp Lep	2.5820	7000.0	88	28457	No
39	GOM_TRA_1PNPDE20070810_035357_000000442060_00348_28458_1508.N1	10-AUG-2007 03:53:57	Dark	43.500	9	Alp Eri	0.45300	24000.	87	28458	No
40	GOM_TRA_1PNPDE20070810_040013_000000392060_00348_28458_1509.N1	10-AUG-2007 04:00:13	Straylight	39.000	148	Alp Tuc	2.8780	4100.0	78	28458	No
41	GOM_TRA_1PNPDE20070810_040342_000000432060_00348_28458_1510.N1	10-AUG-2007 04:03:42	Straylight	42.500	31	Alp Gru	1.7340	15200.	85	28458	No
42	GOM_TRA_1PNPDE20070810_042142_000000362060_00348_28458_1511.N1	10-AUG-2007 04:21:42	Bright	35.500	11	53Alp Aql	0.76500	8000.0	71	28458	No
43	GOM_TRA_1PNPDE20070810_042323_000000362060_00348_28458_1512.N1	10-AUG-2007 04:23:23	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	28458	No
44	GOM_TRA_1PNPDE20070810_043031_000000392060_00348_28458_1513.N1	10-AUG-2007 04:30:31	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	28458	No
45	GOM_TRA_1PNPDE20070810_043202_000000352060_00348_28458_1514.N1	10-AUG-2007 04:32:02	Bright	34.500	144	18Del Cyg	2.8600	11000.	69	28458	No
46	GOM_TRA_1PNPDE20070810_044444_000000332060_00348_28458_1515.N1	10-AUG-2007 04:44:44	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	28458	No
47	GOM_TRA_1PNPDE20070810_045744_000000552060_00348_28458_1685.N1	10-AUG-2007 04:57:44	Bright	55.000	42	34Bet Aur	1.9000	10200.	110	28458	No

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



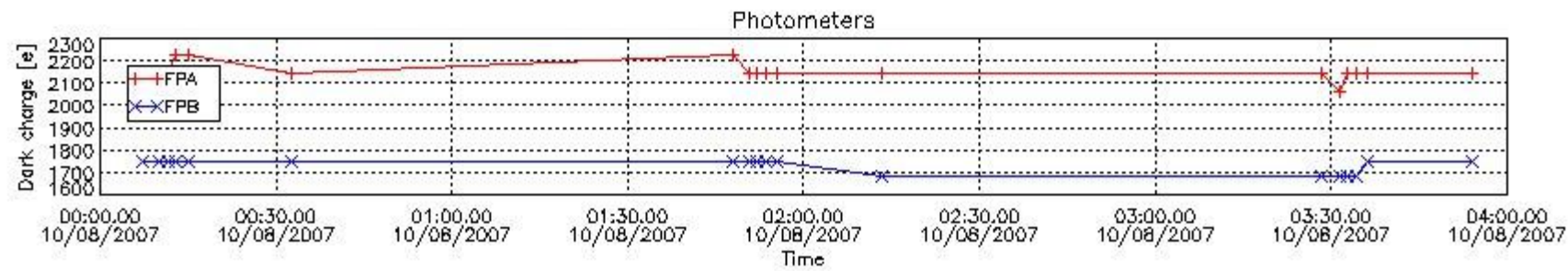
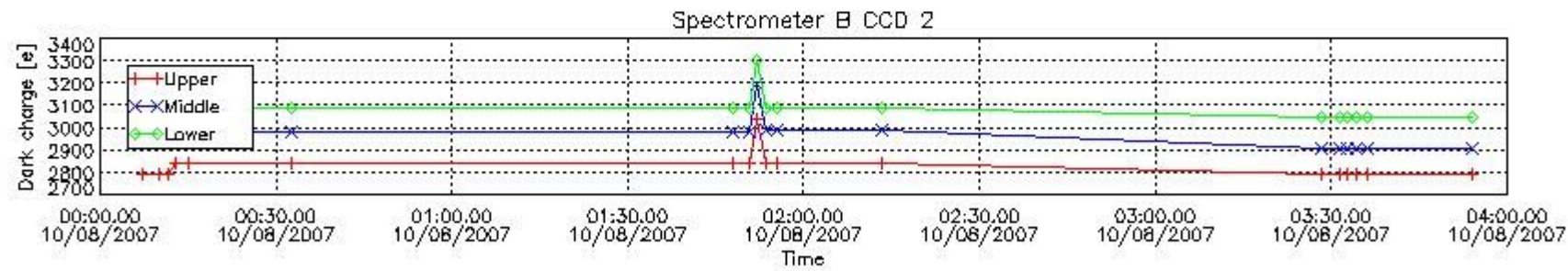
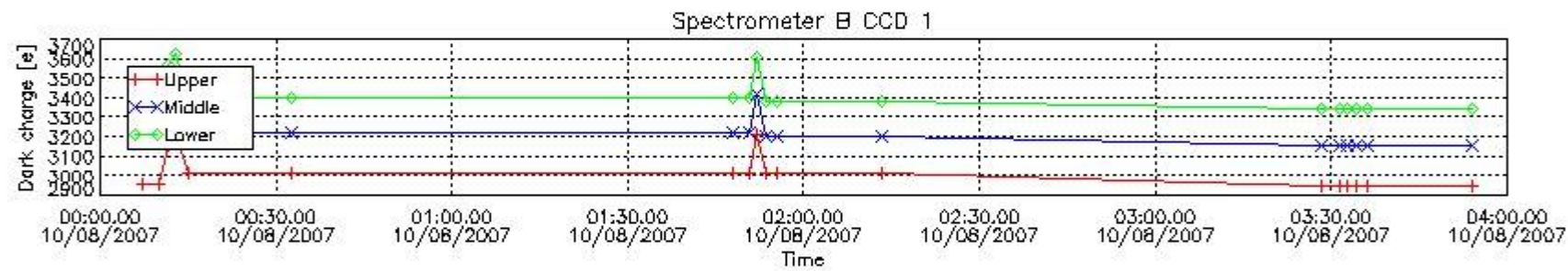
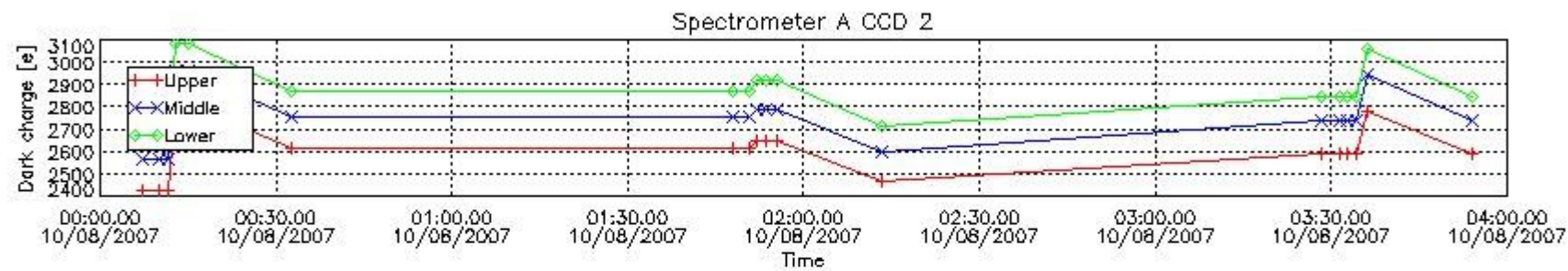
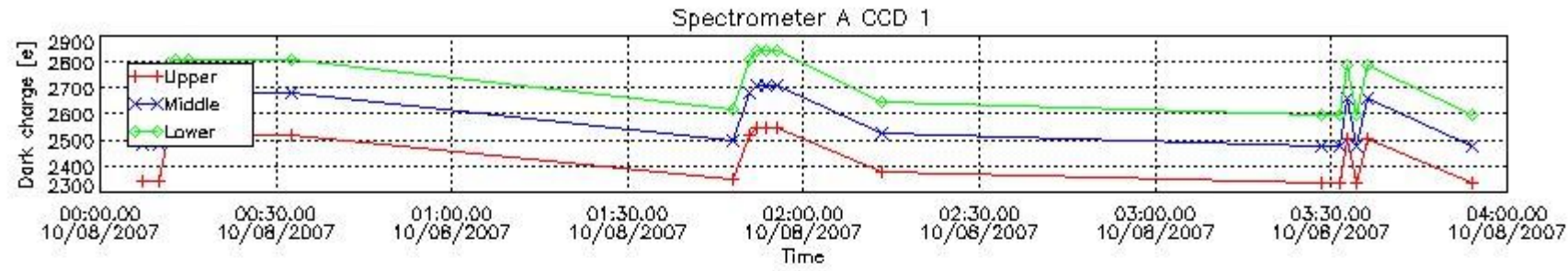
4. Overview of dark signal processing per product

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



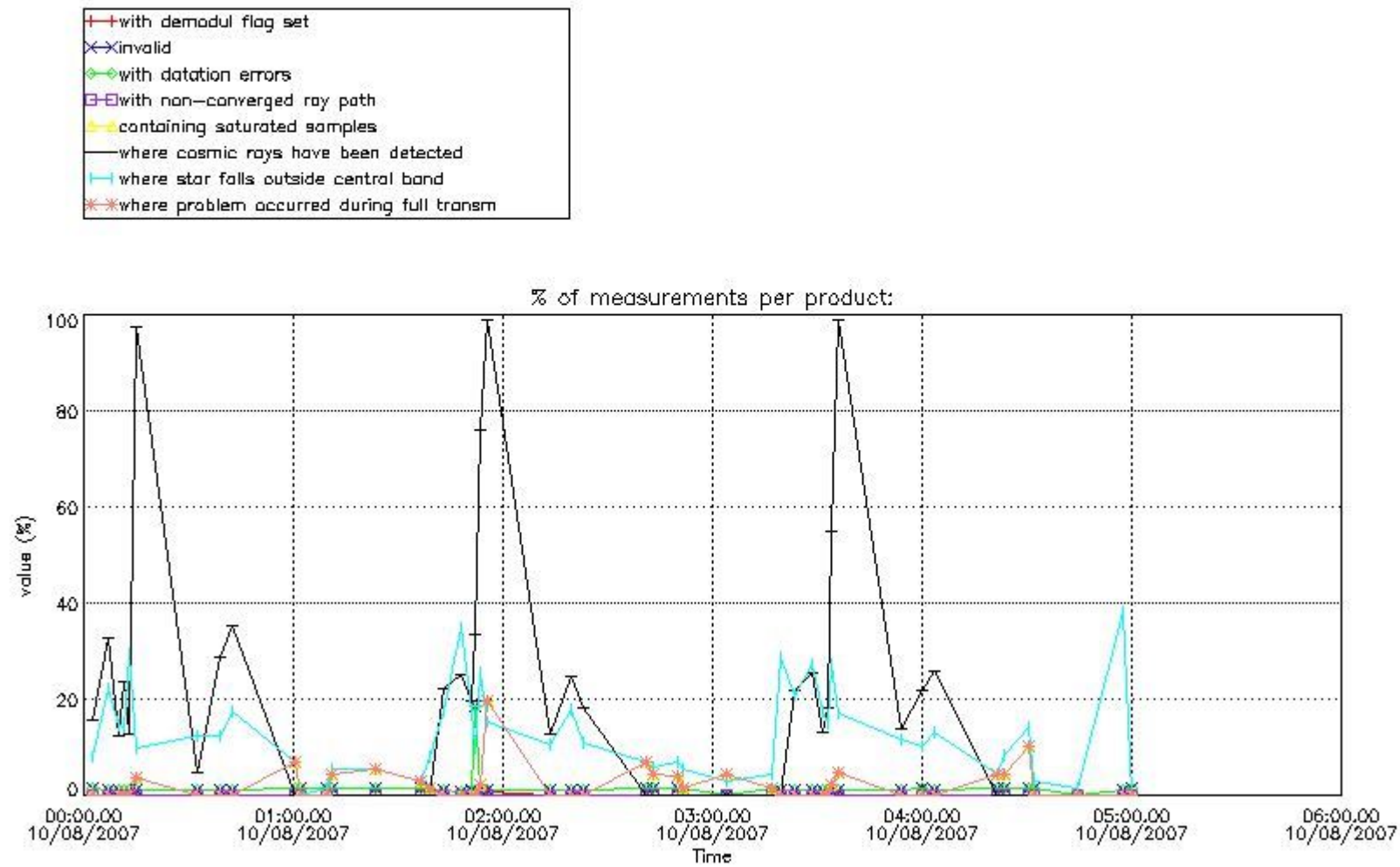
5. Demodulation flag and quality information monitoring

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.

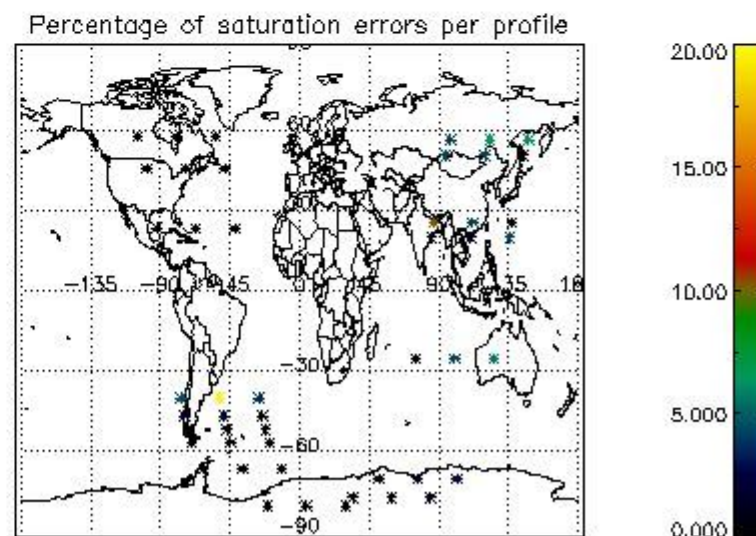
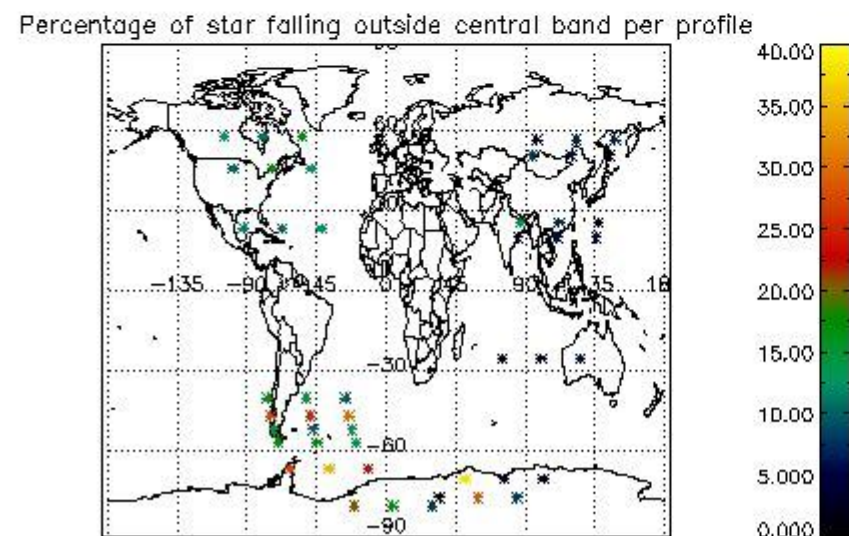
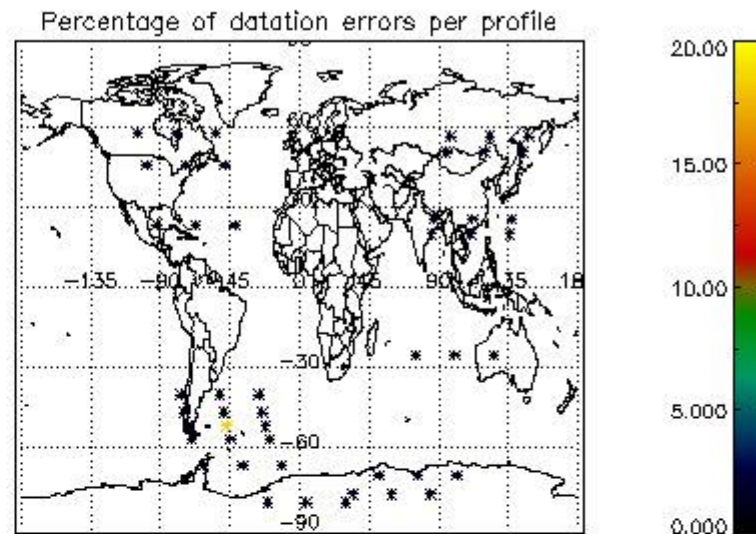
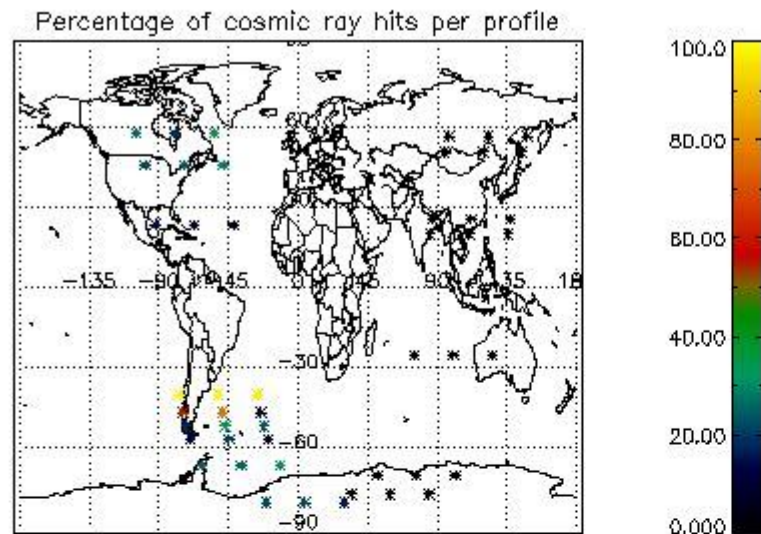
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.7500 %
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)



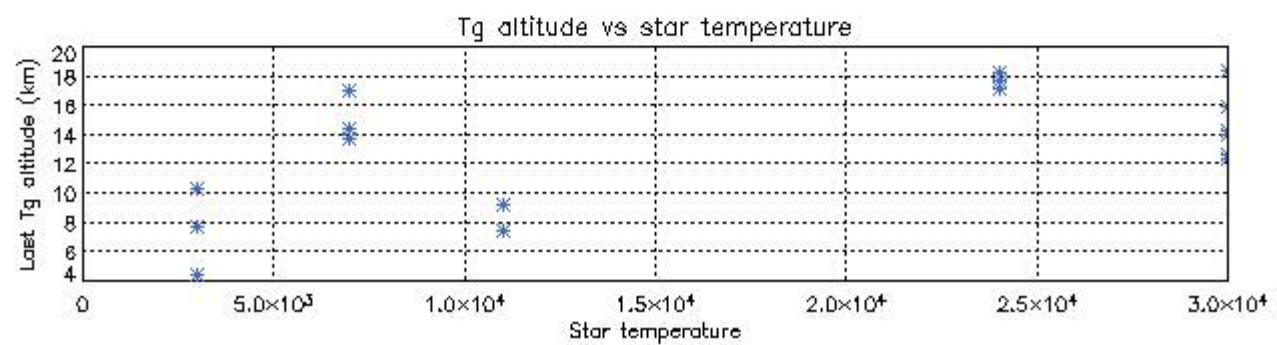
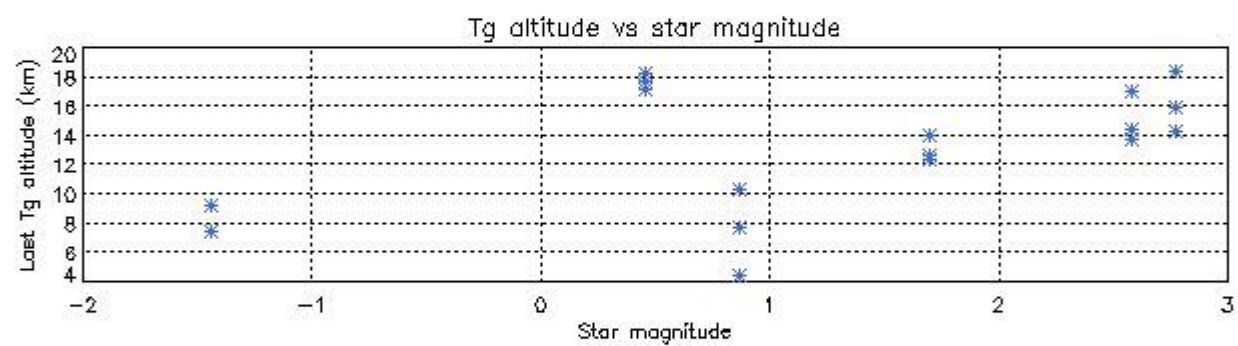
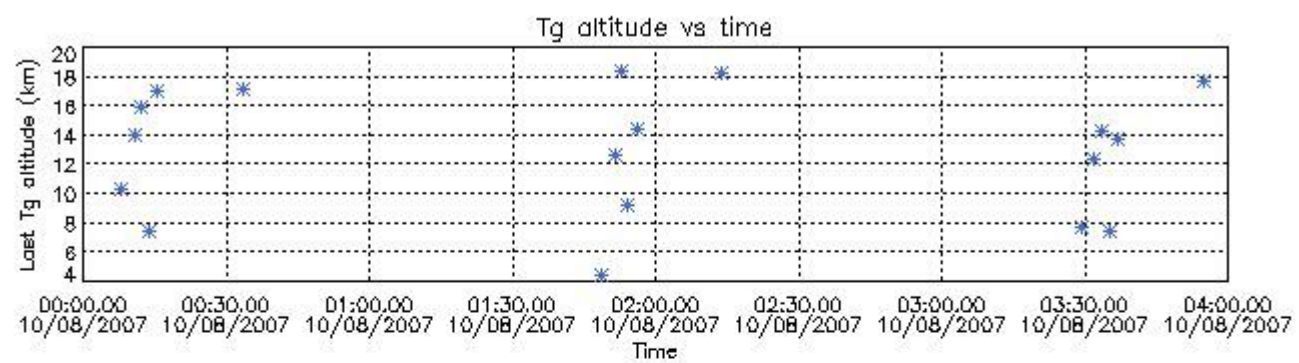
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.879	20.143	NaN
St. deviation:	4.2942	6.1141	NaN
Maximum:	18.381	28.839	NaN
Minimum:	4.3517	3.9005	NaN
Number of data:	18.000	24.000	NaN

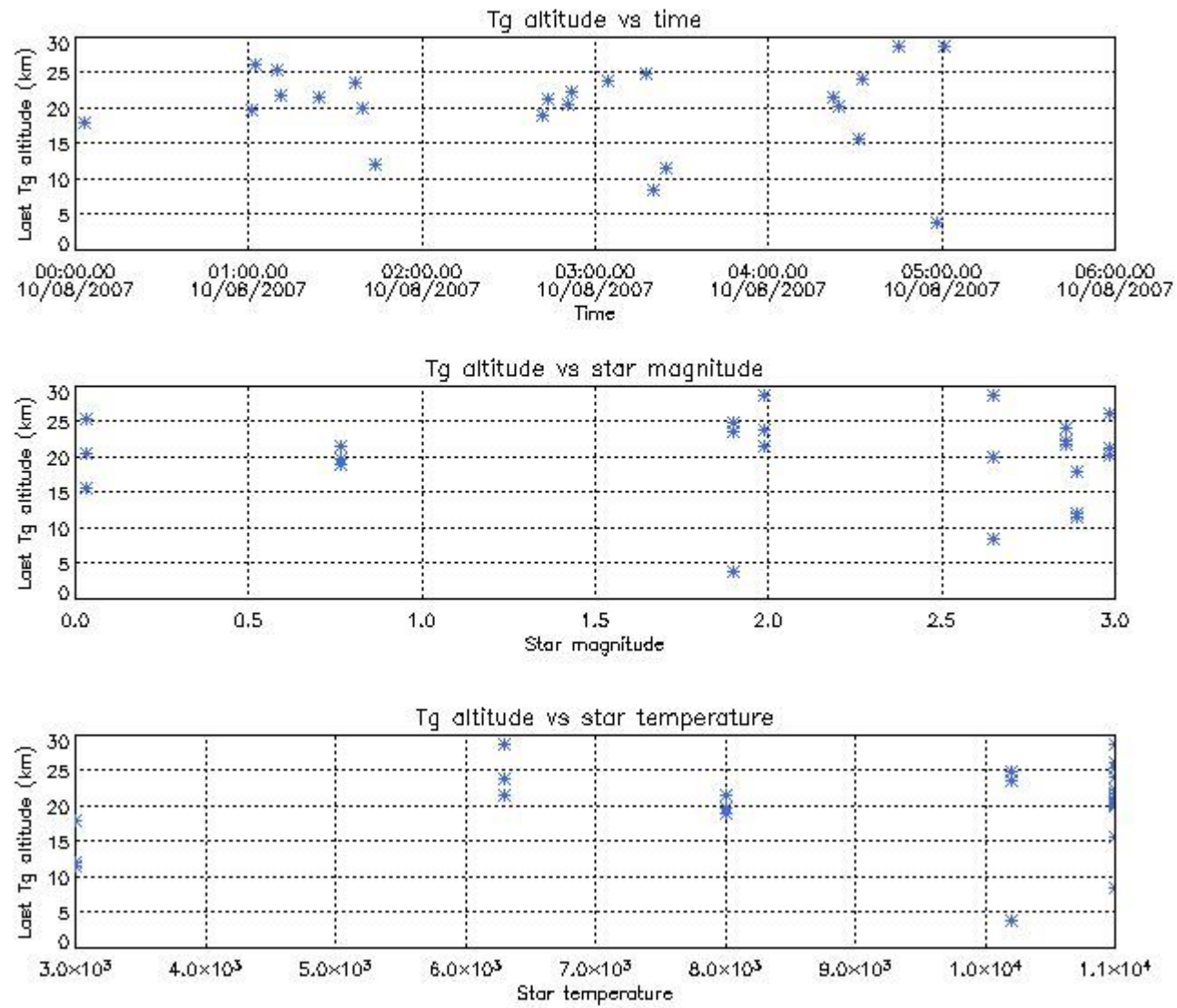
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

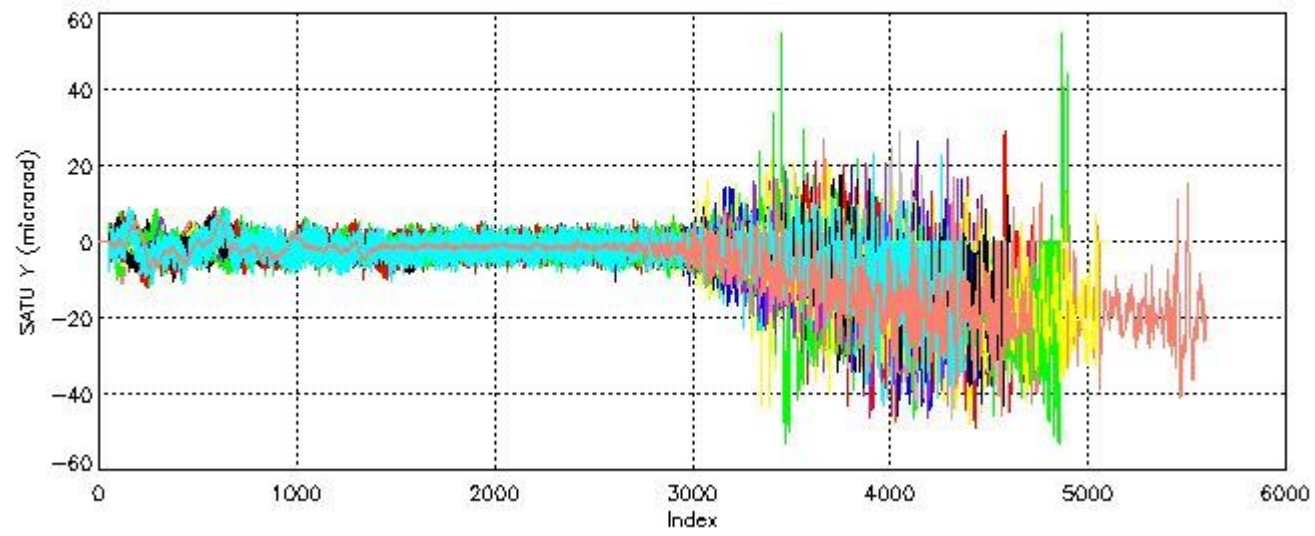
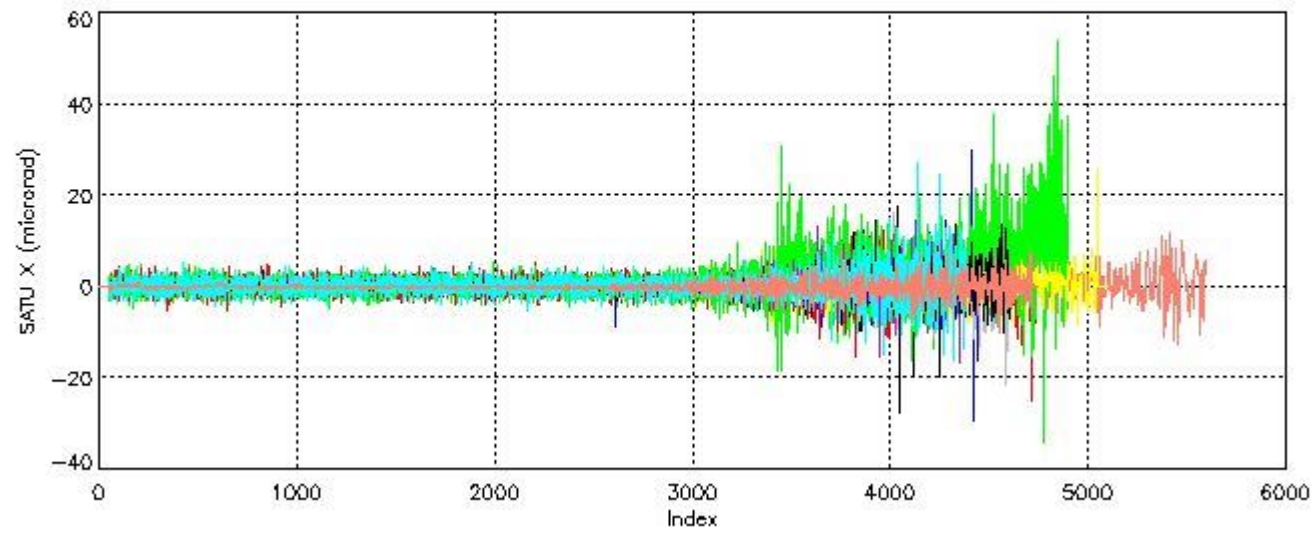


7. Star Acquisition and Tracking Unit (SATU)

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:	0.073626	-1.2514	0.034068	-1.1960
St. deviation:	0.52872	2.6027	0.79080	2.6906
Maximum:	5.2000	9.1000	5.6000	12.400
Minimum:	-4.7000	-12.100	-6.0000	-13.500

Number of data:	16950.	16950.	19800.	19800.
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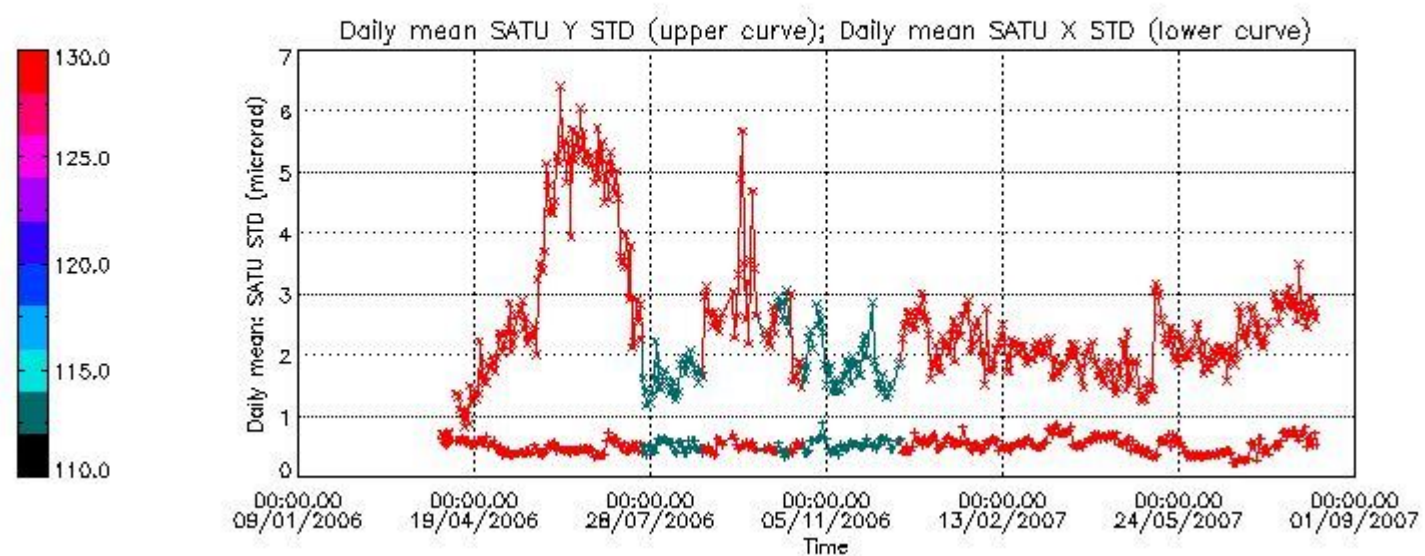
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

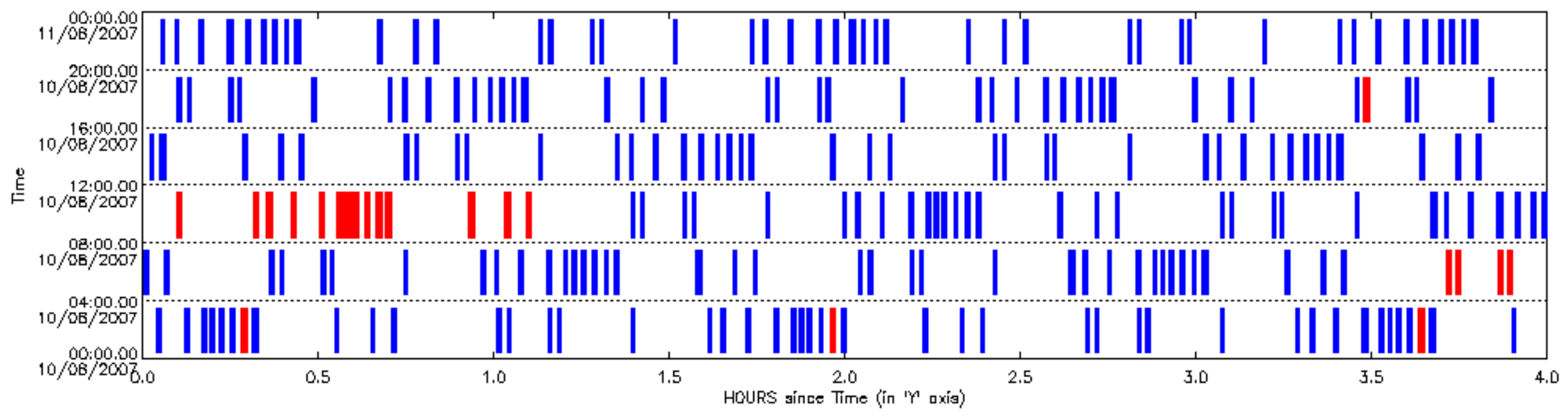
Lower curve: STD of SATU X axis

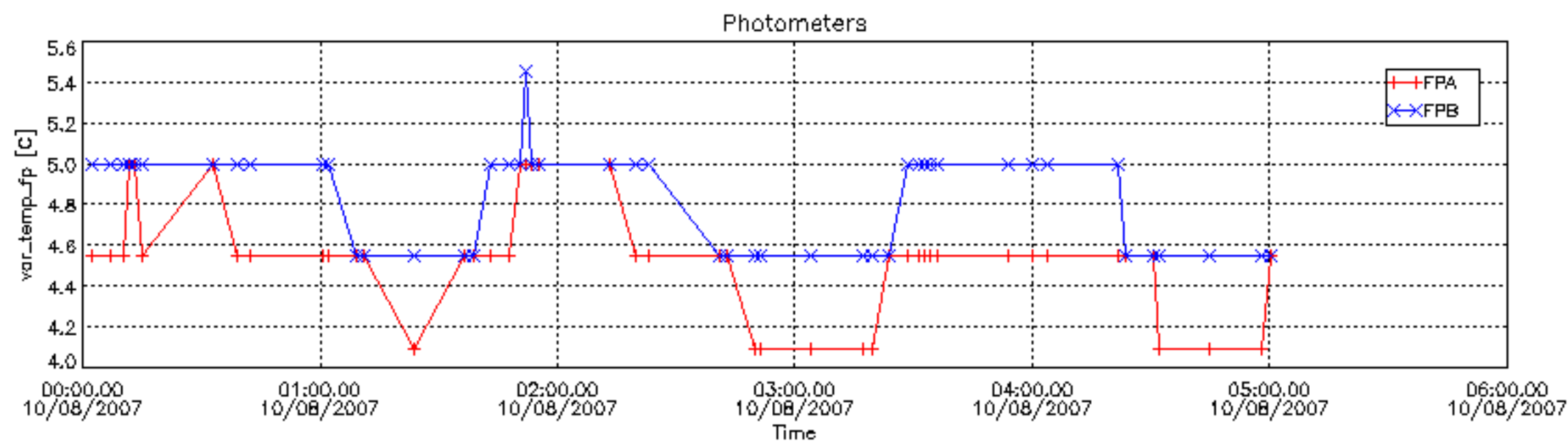
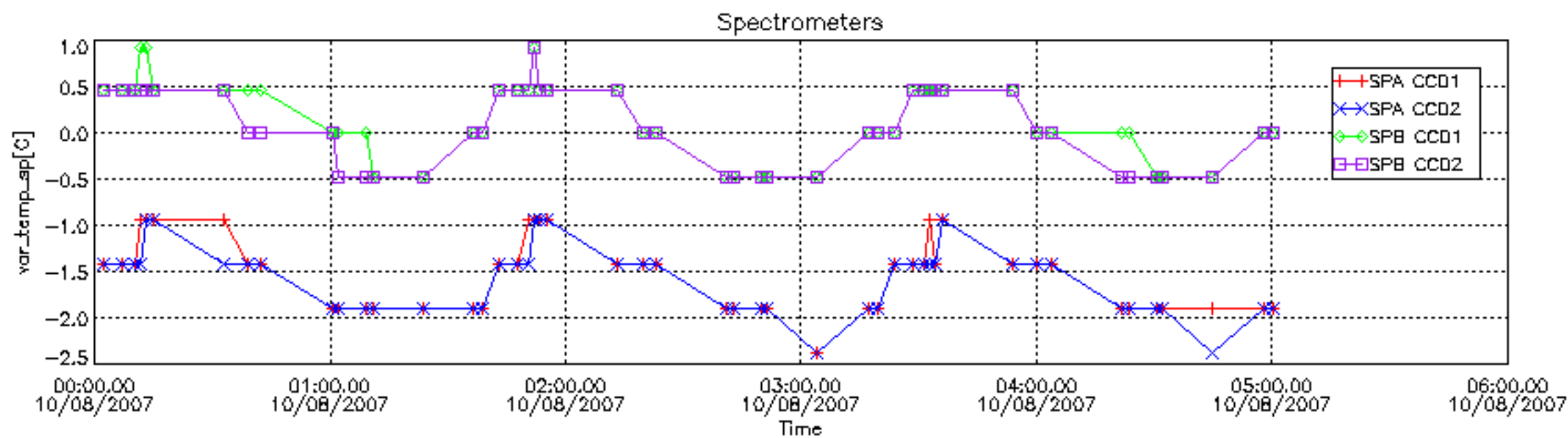


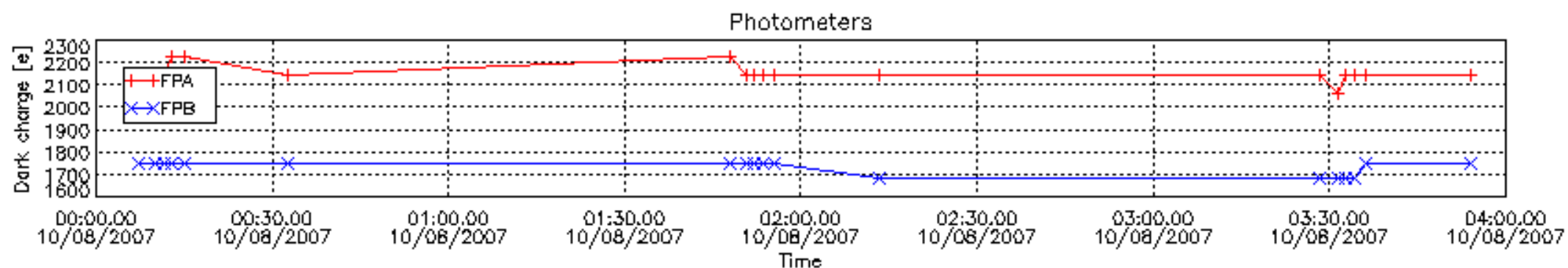
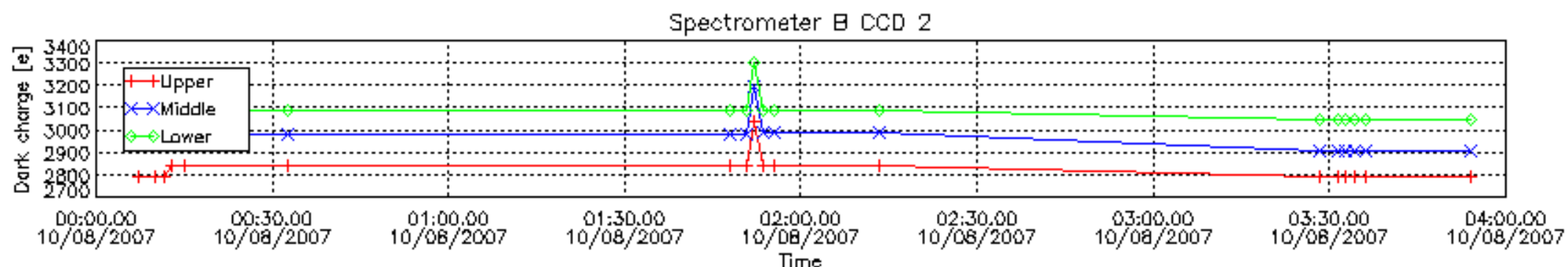
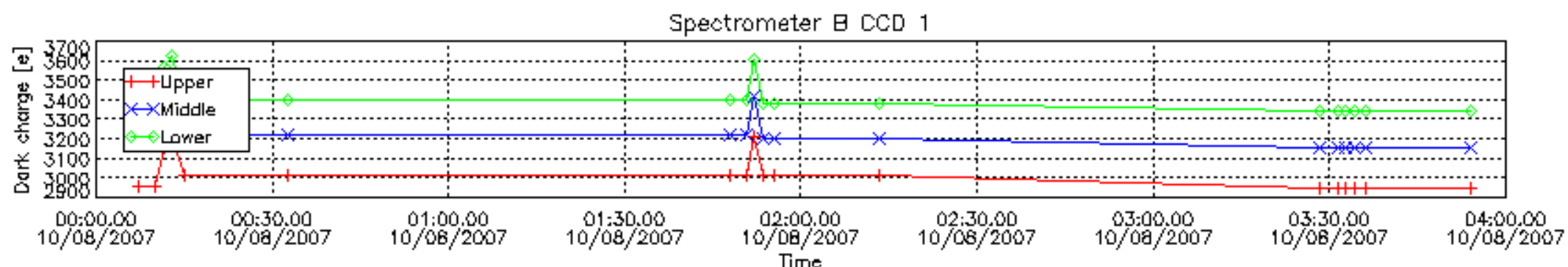
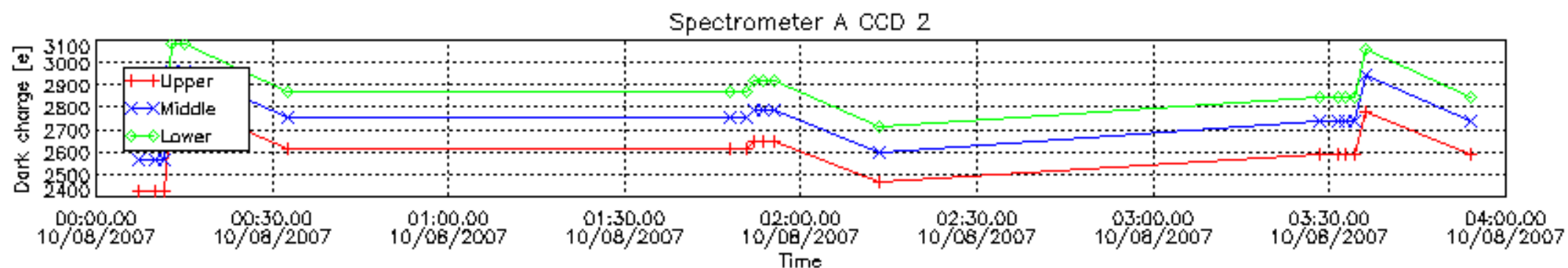
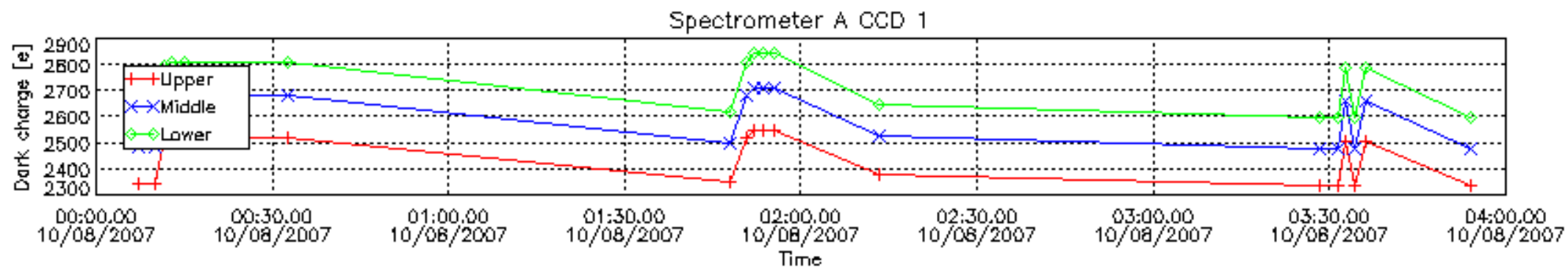
8. Auxiliary Data Files used for the production reported in section 2.4

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.

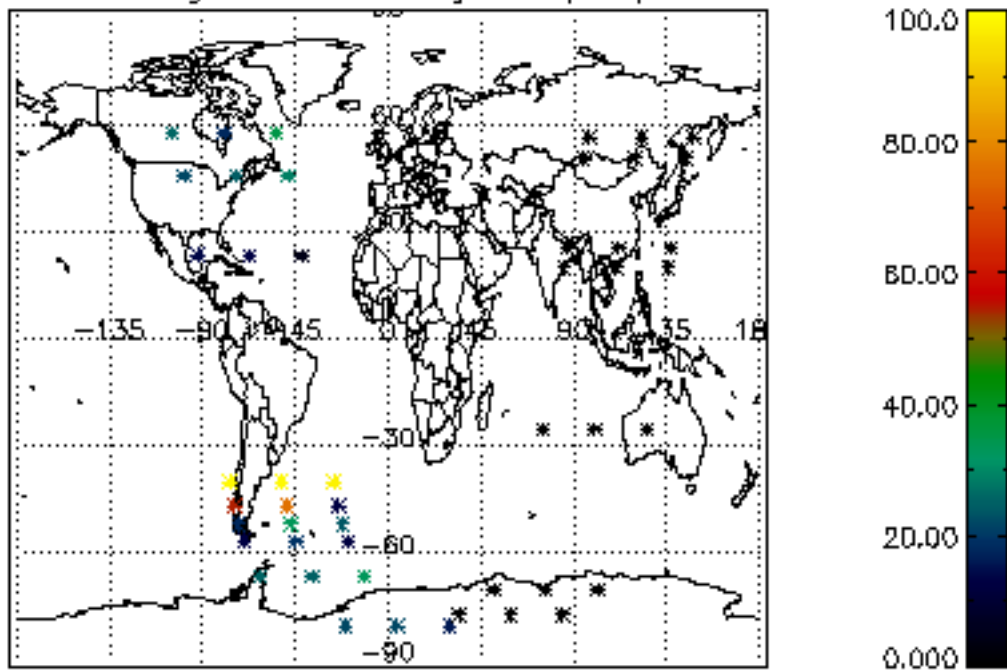
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	10-AUG-2007 00:02:23
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070803_145735_20070802_000000_20100101_000000	1	10-AUG-2007 00:02:23
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	10-AUG-2007 00:02:23
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	10-AUG-2007 00:02:23
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	10-AUG-2007 00:02:23
ECMWF_FILE	AUX_ECF_AXNECM20070809_061111_20070809_210000_20070810_090000	1	10-AUG-2007 00:02:23
ECMWF_FILE	AUX_ECF_AXNECM20070809_181112_20070810_030000_20070810_150000	31	10-AUG-2007 03:17:08
OPTIONAL_ECMWF_FILE	MISSING	1	10-AUG-2007 00:02:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070809_204155_000060572060_00343_28453_3937.N1	1	10-AUG-2007 00:02:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070809_222811_000057382060_00344_28454_3938.N1	5	10-AUG-2007 00:13:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070810_000908_000057382060_00345_28455_3939.N1	20	10-AUG-2007 01:52:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070810_015005_000041442060_00346_28456_3940.N1	31	10-AUG-2007 03:17:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070810_030428_000057382060_00347_28457_3941.N1	47	10-AUG-2007 04:57:44



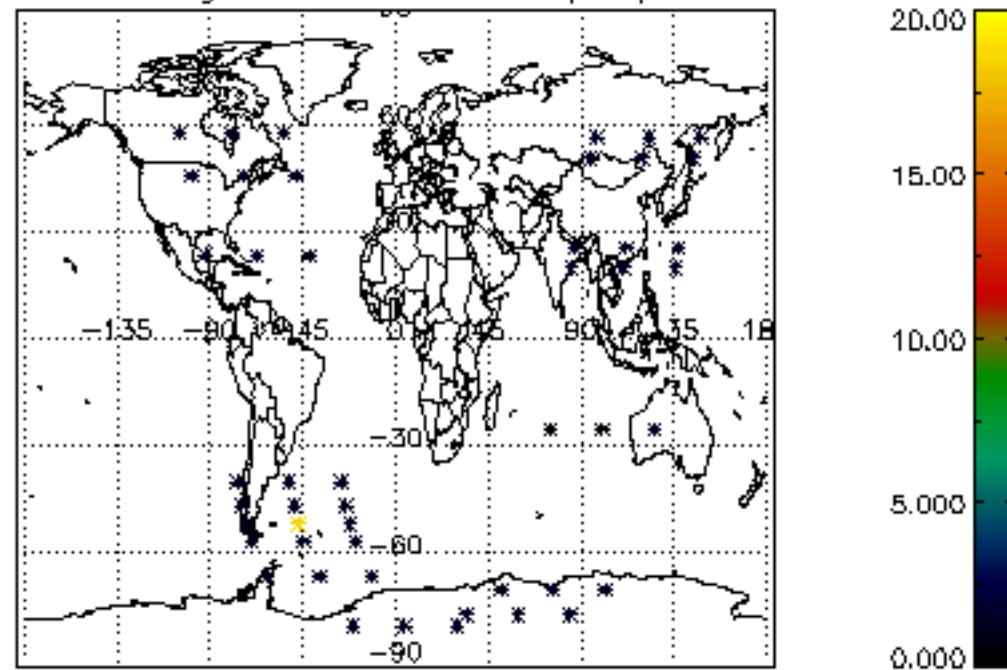




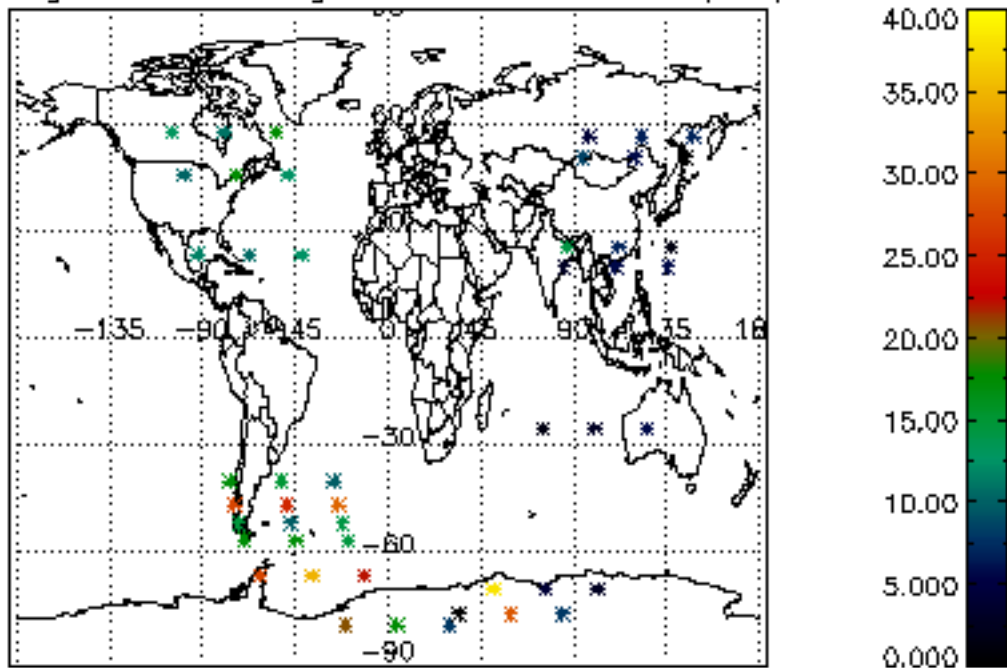
Percentage of cosmic ray hits per profile



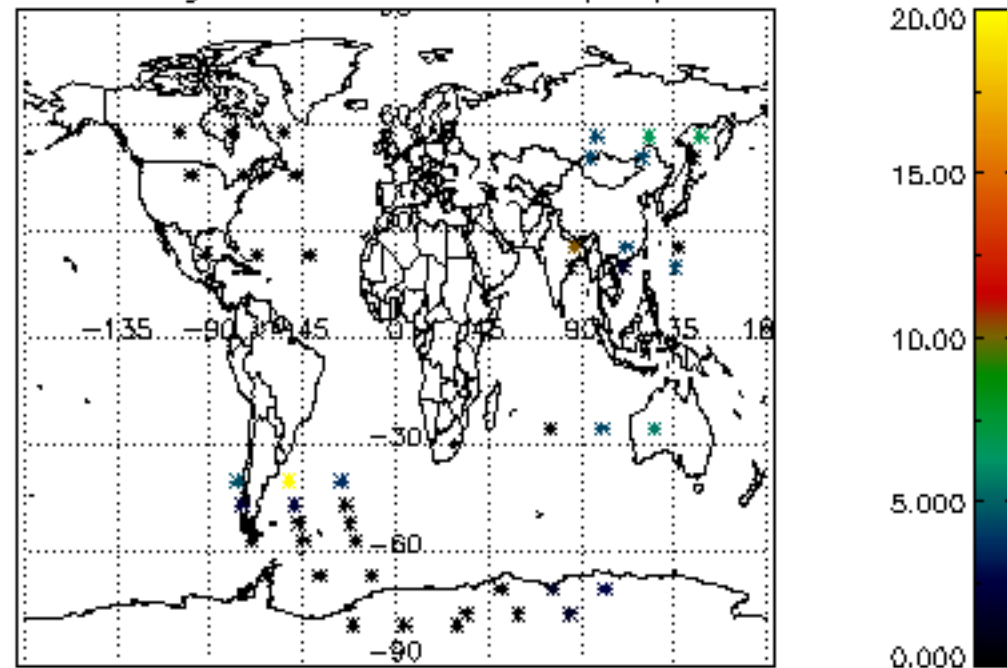
Percentage of datation errors per profile



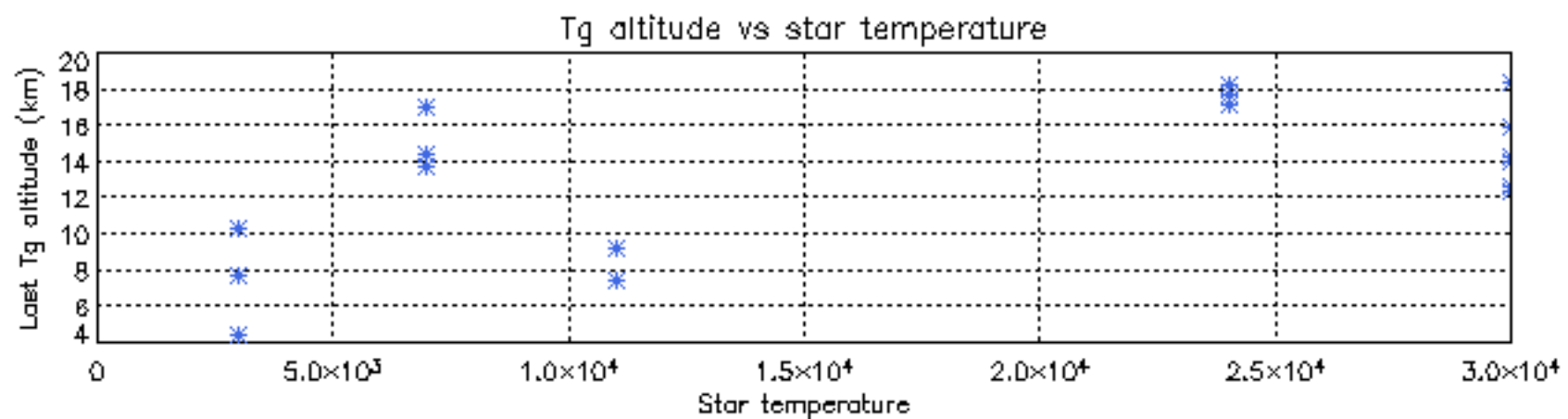
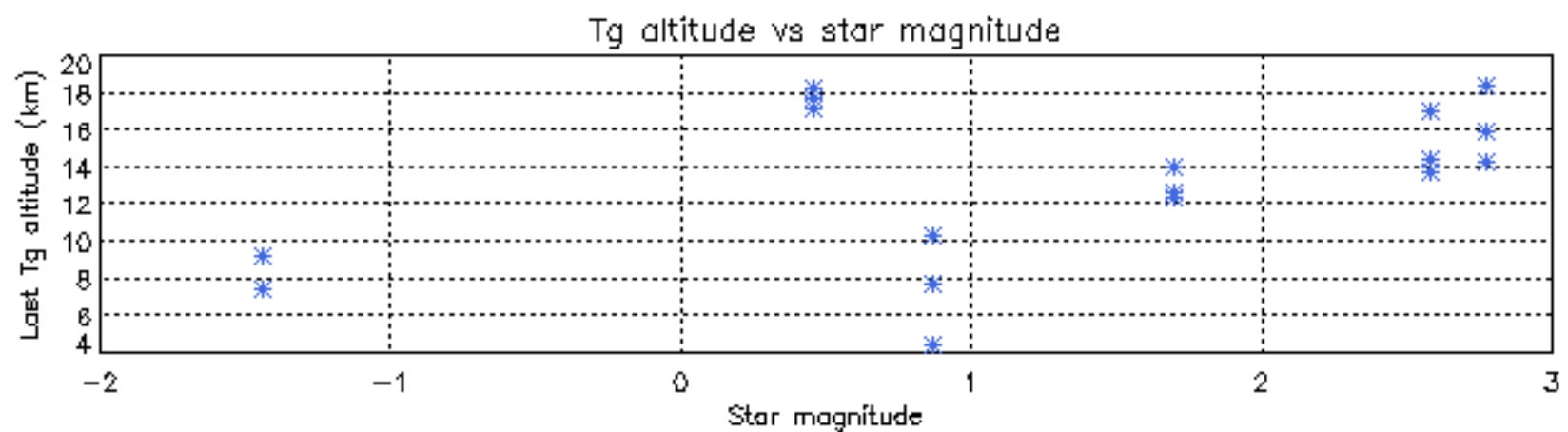
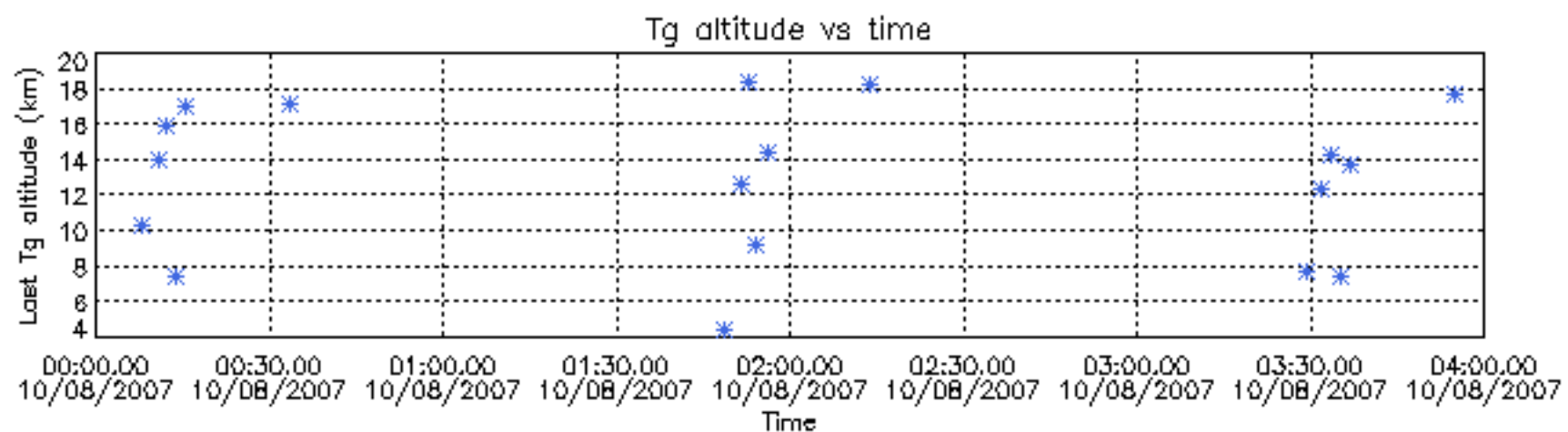
Percentage of star falling outside central band per profile



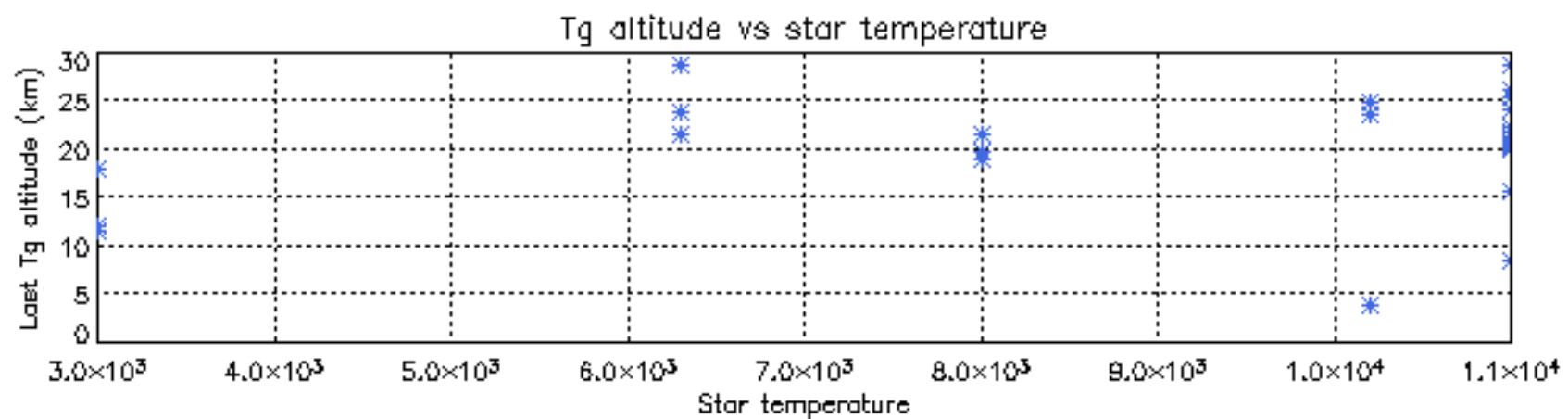
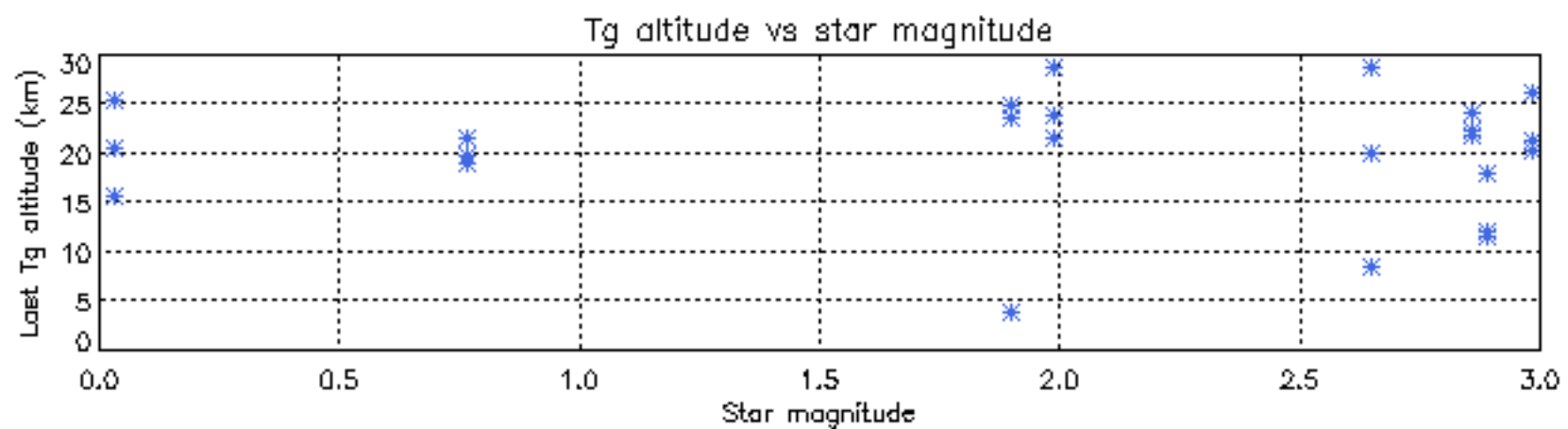
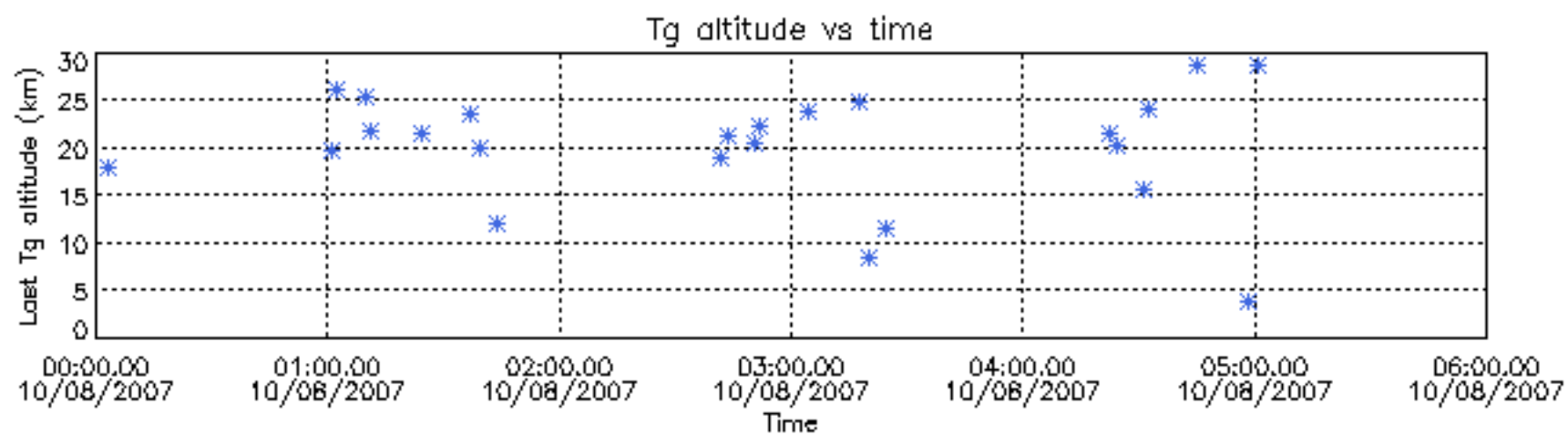
Percentage of saturation errors per profile

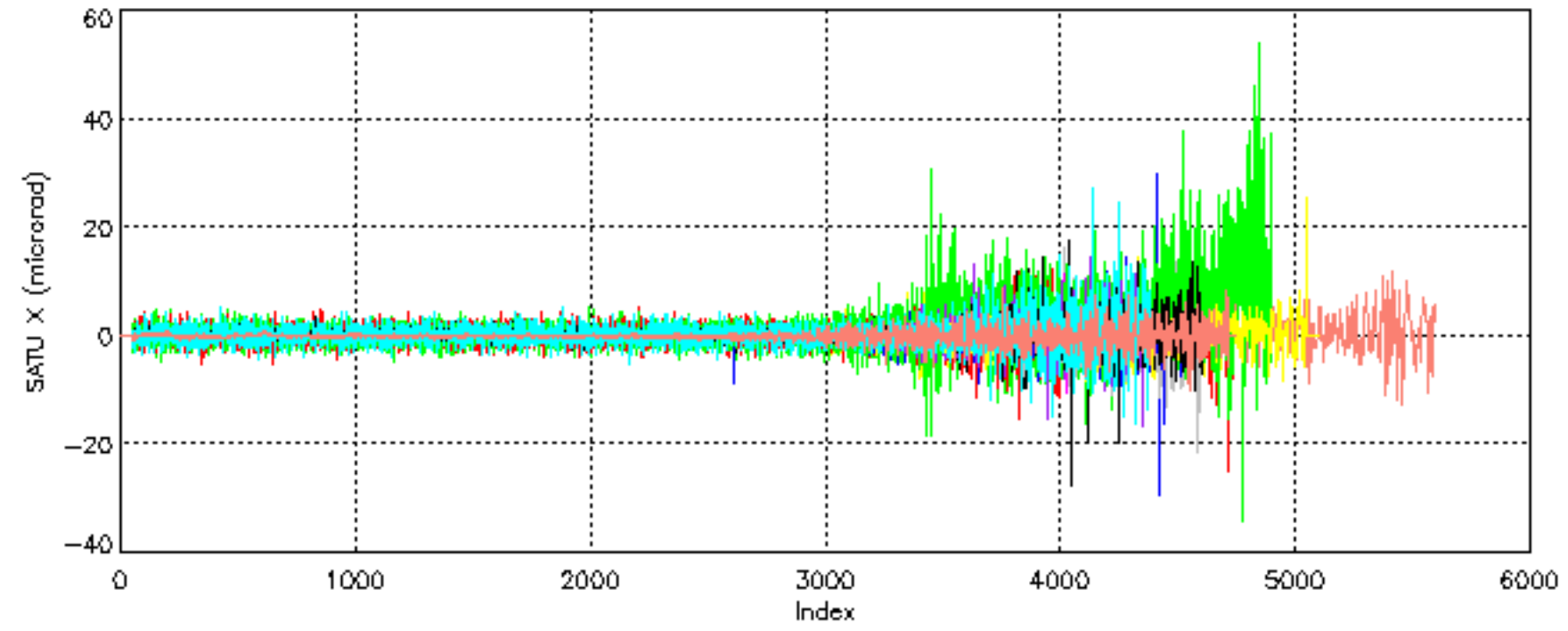


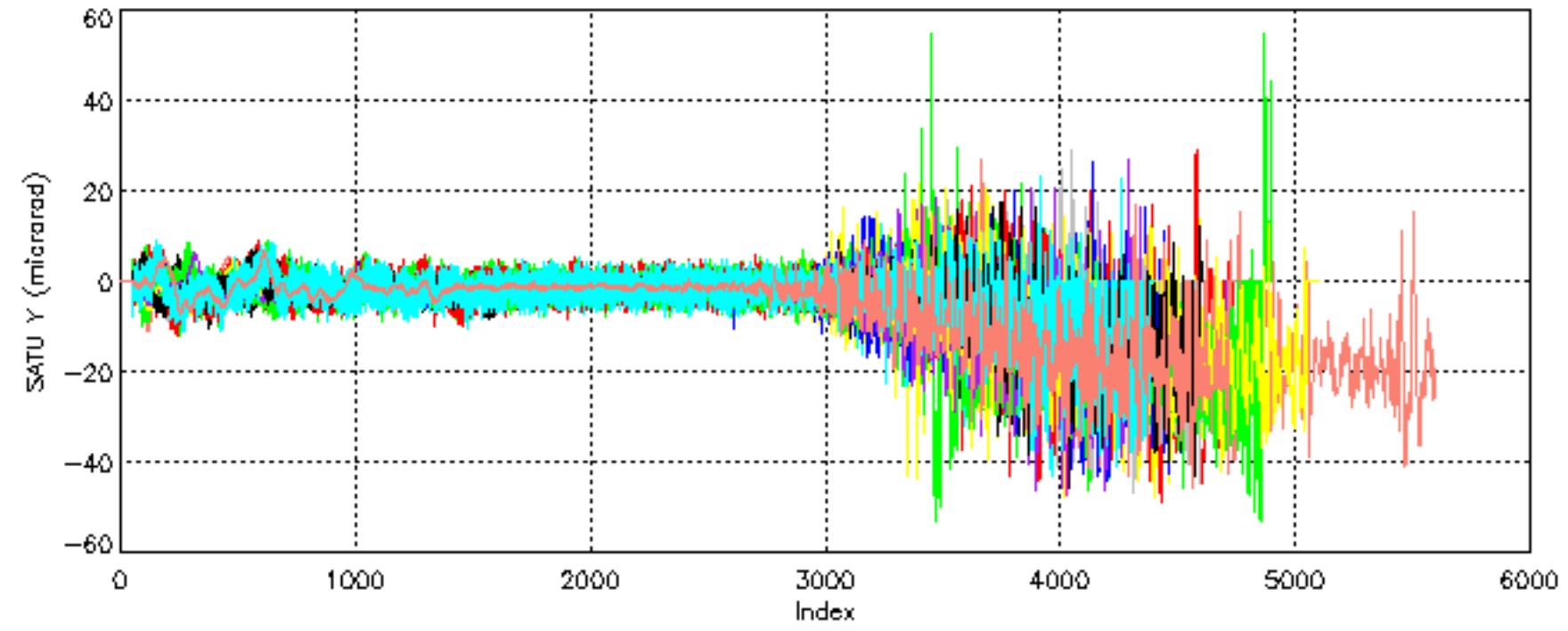
Tangent altitude at which the star is lost

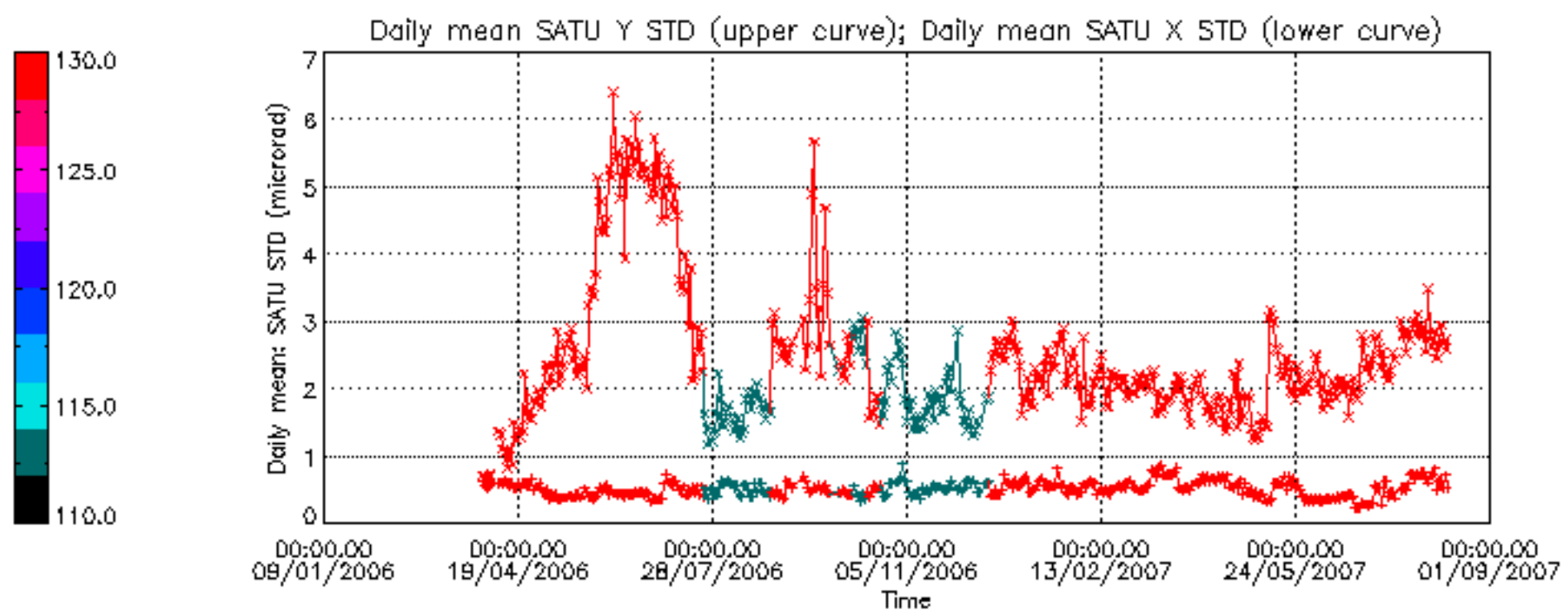


Tangent altitude at which the star is lost









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

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 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
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 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
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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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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
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5; -917.4; 04-AUG-2007 03:20:37; Dark ; 41.5; 125; 44Iot Ori ; 2.77; 30000;occ; 83; 0;28371
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8; -572.4; 04-AUG-2007 03:26:22; Dark ; 36.5; 177; 1Zet CMa ; 3.02; 26000;occ; 73; 0;28371
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10; 292.5; 04-AUG-2007 03:40:47; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28372
11; 435.6; 04-AUG-2007 03:43:10; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;28372
12; 734.7; 04-AUG-2007 03:48:09; Dark ; 41.5; 148; Alp Tuc ; 2.88; 4100;occ; 83; 0;28372
13; 921.1; 04-AUG-2007 03:51:15; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;28372
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13; 921.4; 04-AUG-2007 05:31:52; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;28373
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11; 2148.9; 04-AUG-2007 22:38:19; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;28383
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15; 3440.4; 04-AUG-2007 22:59:50; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;28383
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13; 921.6; 04-AUG-2007 07:12:28; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;28374
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7; 4217.8; 06-AUG-2007 17:07:46; Bright; 33.5; 42; 34Bet Aur ; 1.90; 10200;occ; 67; 0;28408
8; 4355.2; 06-AUG-2007 17:10:03; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28408
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 5; -763.9; 26-AUG-2007 06:52:59; Dark ; 100.0; 1; 9Alp CMa ; -1.44; 11000;occ; 200; 0;28688
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 8; 493.8; 26-AUG-2007 07:13:57; Dark ; 100.0; 9; Alp Eri ; 0.45; 24000;occ; 200; 0;28689
 9; 842.1; 26-AUG-2007 07:19:45; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;28689
10; 1008.7; 26-AUG-2007 07:22:32; Dark ; 94.0; 31; Alp Gru ; 1.73; 15200;occ; 188; 0;28689
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 6; 2082.6; 26-AUG-2007 19:24:37; Bright; 41.0; 61; 8Eps Peg ; 2.10; 3900;occ; 82; 0;28696
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 15; 4851.8; 26-AUG-2007 20:10:46; Dark ; 41.0; 153; 3Bet CMI ; 2.89; 13100;occ; 82; 0;28696
 16; 5329.3; 26-AUG-2007 20:18:44; Dark ; 52.5; 1; 9Alp CMA ; -1.44; 11000;occ; 105; 0;28696
 17; 5414.4; 26-AUG-2007 20:20:09; Dark ; 41.0; 179; 240mi2CMA ; 3.03; 24000;occ; 82; 0;28696
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2; 1896.7; 30-AUG-2007 10:32:39; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28748
3; 2077.3; 30-AUG-2007 10:35:39; Bright; 37.0; 61; 8Eps Peg ; 2.10; 3900;occ; 74; 0;28748
4; 2486.4; 30-AUG-2007 10:42:29; Bright; 34.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 68; 0;28748
5; 2677.5; 30-AUG-2007 10:45:40; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;28748
6; 2979.0; 30-AUG-2007 10:50:41; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28748
7; 3435.2; 30-AUG-2007 10:58:17; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28748
8; 4448.6; 30-AUG-2007 11:15:11; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28748
9; 4605.3; 30-AUG-2007 11:17:47; Dark ; 49.5; 170; 27Eps Gem ; 3.00; 9700;occ; 99; 0;28748
10; 4781.4; 30-AUG-2007 11:20:44; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28748
11; 4906.1; 30-AUG-2007 11:22:48; Dark ; 43.5; 8; 10Alp CMi ; 0.40; 6500;occ; 87; 0;28748
12; 5357.1; 30-AUG-2007 11:30:19; Dark ; 46.5; 1; 9Alp CMa ; -1.44; 11000;occ; 93; 0;28748
13; 5437.3; 30-AUG-2007 11:31:39; Dark ; 38.0; 179; 240mi2CMa ; 3.03; 24000;occ; 76; 0;28748
14; 5525.5; 30-AUG-2007 11:33:08; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;28748
15; 5621.0; 30-AUG-2007 11:34:43; Dark ; 39.5; 177; 1Zet CMa ; 3.02; 26000;occ; 79; 0;28748
16; 5717.1; 30-AUG-2007 11:36:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28748
17; 6547.6; 30-AUG-2007 11:50:10; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28748
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19; 6980.7; 30-AUG-2007 11:57:23; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;28748
20; 7077.7; 30-AUG-2007 11:59:00; Dark ; 43.5; 63; Bet Gru ; 2.15; 2800;occ; 87; 0;28748
21; 7357.4; 30-AUG-2007 12:03:40; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;28748
22; 7651.7; 30-AUG-2007 12:08:34; Dark ; 45.5; 142; 49Del Cap ; 2.85; 8900;occ; 91; 0;28748

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2; 1805.4; 30-AUG-2007 12:11:43; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28749
3; 1896.7; 30-AUG-2007 12:13:15; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28749
4; 2077.3; 30-AUG-2007 12:16:15; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28749
5; 2486.5; 30-AUG-2007 12:23:04; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;28749
6; 2677.6; 30-AUG-2007 12:26:16; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;28749
7; 2978.8; 30-AUG-2007 12:31:17; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28749
8; 3435.1; 30-AUG-2007 12:38:53; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28749
9; 4448.6; 30-AUG-2007 12:55:47; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28749
10; 4605.6; 30-AUG-2007 12:58:24; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28749
11; 4781.9; 30-AUG-2007 13:01:20; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28749
12; 4906.4; 30-AUG-2007 13:03:24; Dark ; 51.0; 8; 10Alp CMi ; 0.40; 6500;occ; 102; 0;28749
13; 5357.8; 30-AUG-2007 13:10:56; Dark ; 46.0; 1; 9Alp CMa ; -1.44; 11000;occ; 92; 0;28749
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16; 5621.8; 30-AUG-2007 13:15:20; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28749
17; 5717.7; 30-AUG-2007 13:16:56; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28749
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19; 6623.4; 30-AUG-2007 13:32:01; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28749
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21; 7078.1; 30-AUG-2007 13:39:36; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;28749
22; 7357.9; 30-AUG-2007 13:44:16; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;28749

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2; 1805.6; 30-AUG-2007 13:52:19; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28750
3; 1896.6; 30-AUG-2007 13:53:50; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28750

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5; 2486.7; 30-AUG-2007 14:03:40; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28750
6; 2677.6; 30-AUG-2007 14:06:51; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28750
7; 2978.7; 30-AUG-2007 14:11:53; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28750
8; 3435.3; 30-AUG-2007 14:19:29; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28750
9; 4448.9; 30-AUG-2007 14:36:23; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28750
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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12; 4906.8; 30-AUG-2007 14:44:01; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;28750
13; 5358.4; 30-AUG-2007 14:51:32; Dark ; 51.0; 1; 9Alp CMa ; -1.44; 11000;occ; 102; 0;28750
14; 5438.3; 30-AUG-2007 14:52:52; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;28750
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17; 5718.4; 30-AUG-2007 14:57:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
5; 2077.2; 30-AUG-2007 15:37:27; Bright; 40.0; 61; 8Eps Peg ; 2.10; 3900;occ; 80; 0;28751
6; 2486.7; 30-AUG-2007 15:44:16; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;28751
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8; 2978.7; 30-AUG-2007 15:52:28; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;28751
9; 3435.3; 30-AUG-2007 16:00:05; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28751
10; 4449.0; 30-AUG-2007 16:16:59; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28751
11; 4606.1; 30-AUG-2007 16:19:36; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28751
12; 4782.8; 30-AUG-2007 16:22:33; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;28751
13; 4907.1; 30-AUG-2007 16:24:37; Dark ; 51.5; 8; 10Alp CMi ; 0.40; 6500;occ; 103; 0;28751
14; 5359.0; 30-AUG-2007 16:32:09; Dark ; 47.5; 1; 9Alp CMa ; -1.44; 11000;occ; 95; 0;28751
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21; 6982.8; 30-AUG-2007 16:59:13; Dark ; 57.5; 84; Alp Phe ; 2.40; 4500;occ; 115; 0;28751
22; 7078.9; 30-AUG-2007 17:00:49; Dark ; 46.0; 63; Bet Gru ; 2.15; 2800;occ; 92; 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
5; 2077.1; 30-AUG-2007 17:18:03; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28752
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
8; 2978.5; 30-AUG-2007 17:33:04; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;28752
9; 3435.2; 30-AUG-2007 17:40:41; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28752
10; 4449.2; 30-AUG-2007 17:57:35; Bright; 36.0; 24; 66Alp Gem ; 1.58; 10200;occ; 72; 0;28752
11; 4606.4; 30-AUG-2007 18:00:12; Dark ; 47.0; 170; 27Eps Gem ; 3.00; 9700;occ; 94; 0;28752
12; 4783.1; 30-AUG-2007 18:03:09; Dark ; 49.0; 44; 24Gam Gem ; 1.93; 11000;occ; 98; 0;28752
13; 4907.4; 30-AUG-2007 18:05:13; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;28752
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19; 6550.1; 30-AUG-2007 18:32:36; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28752
20; 6625.4; 30-AUG-2007 18:33:51; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;28752
21; 6983.4; 30-AUG-2007 18:39:49; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;28752
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2; 1322.9; 30-AUG-2007 18:46:05; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;28753
3; 1616.5; 30-AUG-2007 18:50:58; Dark ; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;28753

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5; 1896.7; 30-AUG-2007 18:55:38; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28753
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7; 2486.8; 30-AUG-2007 19:05:29; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28753
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11; 4449.2; 30-AUG-2007 19:38:11; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28753
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
14; 4907.6; 30-AUG-2007 19:45:49; Dark ; 48.0; 8; 10Alp CMi ; 0.40; 6500;occ; 96; 0;28753
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17; 5528.0; 30-AUG-2007 19:56:10; Dark ; 40.5; 23; 21Eps CMa ; 1.50; 26000;occ; 81; 0;28753
18; 5624.4; 30-AUG-2007 19:57:46; Dark ; 42.0; 177; 1Zet CMa ; 3.02; 26000;occ; 84; 0;28753
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20; 6550.4; 30-AUG-2007 20:13:12; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28753
21; 6625.9; 30-AUG-2007 20:14:28; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;28753
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7; 949.7; 31-AUG-2007 01:22:15; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;28757
8; 1044.4; 31-AUG-2007 01:23:50; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;28757
9; 1323.9; 31-AUG-2007 01:28:29; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28757
10; 1616.8; 31-AUG-2007 01:33:22; Dark ; 43.0; 142; 49Del Cap ; 2.85; 8900;occ; 86; 0;28757
11; 1805.9; 31-AUG-2007 01:36:31; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28757
12; 1896.3; 31-AUG-2007 01:38:02; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28757
13; 2076.7; 31-AUG-2007 01:41:02; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28757
14; 2486.8; 31-AUG-2007 01:47:52; Bright; 37.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 74; 0;28757
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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
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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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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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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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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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