

GOMOS Daily Report 02-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	04AUG2007 05:49:01
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (02AUG2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (03AUG2007 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)

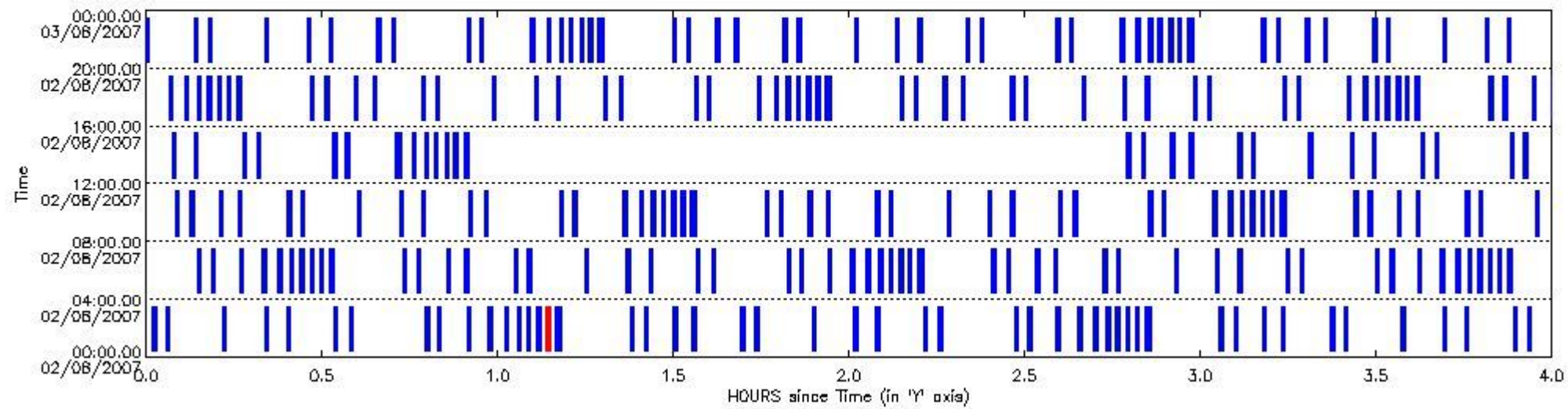
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

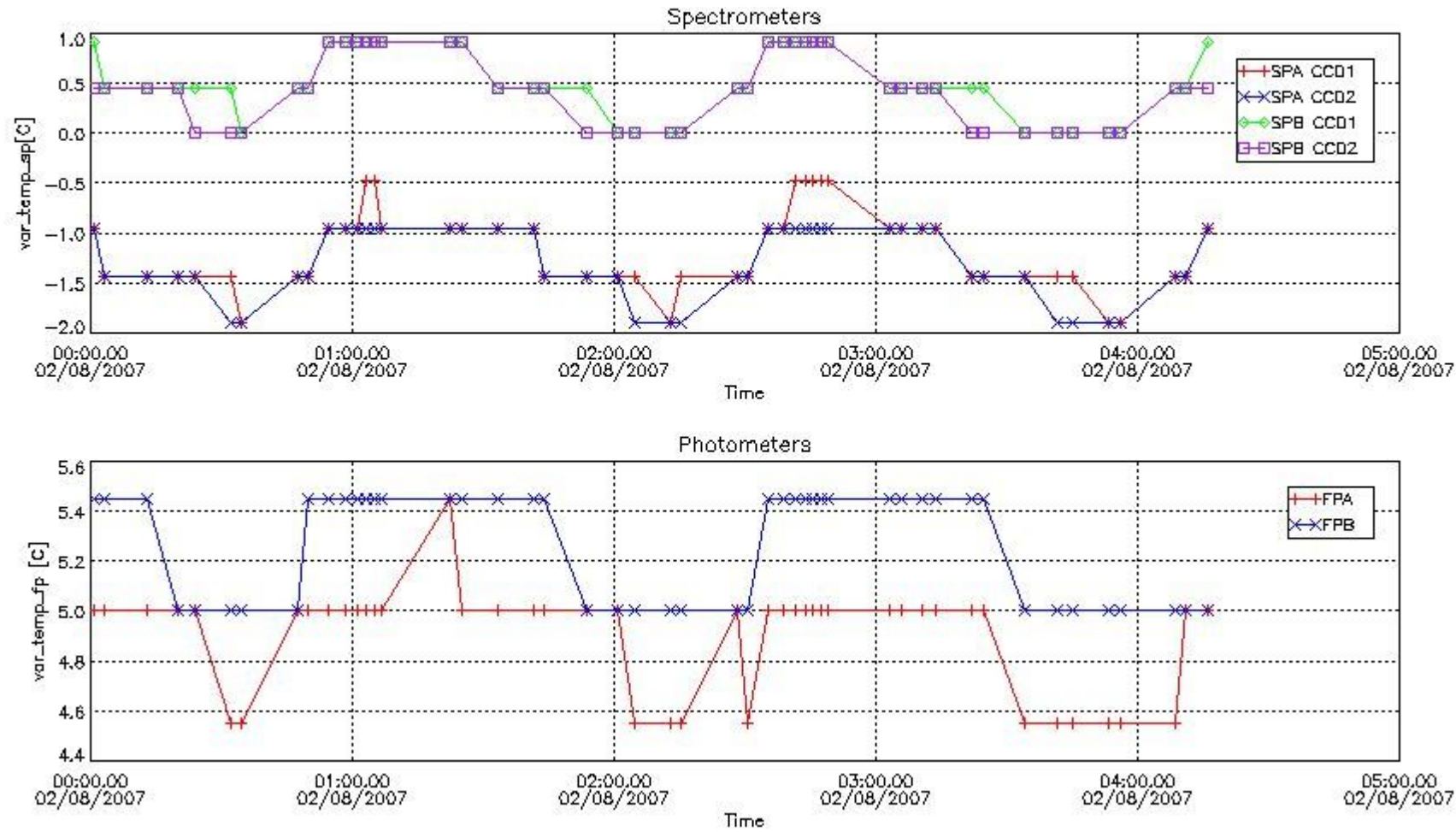
UTC start time	Star name	Star ID	Orbit
02-AUG-2007 01:08:10	1ZetCMa	177	28341

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_1PNPDE20070802_000055_000000512060_00231_28341_0256.N1	02-AUG-2007 00:00:55	Bright	51.000	103	38Zet Sgr	2.6000	9700.0	102	28341	No
2	GOM_TRA_1PNPDE20070802_000318_000000382060_00231_28341_0257.N1	02-AUG-2007 00:03:18	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	28341	No
3	GOM_TRA_1PNPDE20070802_001306_000000342060_00231_28341_0258.N1	02-AUG-2007 00:13:06	Bright	34.000	168	17Zet Aql	2.9860	11000.	68	28341	No
4	GOM_TRA_1PNPDE20070802_002011_000000352060_00231_28341_0259.N1	02-AUG-2007 00:20:11	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	28341	No
5	GOM_TRA_1PNPDE20070802_002359_000000372060_00231_28341_0260.N1	02-AUG-2007 00:23:59	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	28341	No
6	GOM_TRA_1PNPDE20070802_003209_000000342060_00231_28341_0261.N1	02-AUG-2007 00:32:09	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	28341	No
7	GOM_TRA_1PNPDE20070802_003442_000000332060_00231_28341_0262.N1	02-AUG-2007 00:34:42	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	28341	No
8	GOM_TRA_1PNPDE20070802_004734_000000472060_00231_28341_0263.N1	02-AUG-2007 00:47:34	Bright	46.500	42	34Bet Aur	1.9000	10200.	93	28341	No
9	GOM_TRA_1PNPDE20070802_004948_000000342060_00231_28341_0264.N1	02-AUG-2007 00:49:48	Bright	34.000	107	37The Aur	2.6490	11000.	68	28341	No
10	GOM_TRA_1PNPDE20070802_005442_000000412060_00231_28341_0265.N1	02-AUG-2007 00:54:42	Tw_i_and_stray	41.000	176	23Zet Tau	3.0200	22000.	82	28341	No

11	GOM_TRA_1PNPDE20070802_005822_000000392060_00231_28341_0266.N1	02-AUG-2007 00:58:22	Dark	39.000	14	58Alp Ori	0.87000	3000.0	78	28341	No
12	GOM_TRA_1PNPDE20070802_010108_000000412060_00231_28341_0267.N1	02-AUG-2007 01:01:08	Dark	40.500	30	46Eps Ori	1.6940	30000.	81	28341	No
13	GOM_TRA_1PNPDE20070802_010315_000000412060_00231_28341_0268.N1	02-AUG-2007 01:03:15	Dark	41.000	56	53Kap Ori	2.0650	30000.	82	28341	No
14	GOM_TRA_1PNPDE20070802_010458_000000412060_00231_28341_0269.N1	02-AUG-2007 01:04:58	Dark	40.500	47	2Bet CMa	1.9760	28000.	81	28341	No
15	GOM_TRA_1PNPDE20070802_010641_000000412060_00231_28341_0406.N1	02-AUG-2007 01:06:41	Dark	41.000	139	9Bet Lep	2.8330	5600.0	82	28341	No
16	GOM_TRA_1PNPDE20070802_012232_000000392060_00232_28342_0407.N1	02-AUG-2007 01:22:32	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	28342	No
17	GOM_TRA_1PNPDE20070802_012505_000000402060_00232_28342_0408.N1	02-AUG-2007 01:25:05	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	28342	No
18	GOM_TRA_1PNPDE20070802_013310_000000412060_00232_28342_0410.N1	02-AUG-2007 01:33:10	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	28342	No
19	GOM_TRA_1PNPDE20070802_014131_000000462060_00232_28342_0411.N1	02-AUG-2007 01:41:31	Bright	46.000	103	38Zet Sgr	2.6000	9700.0	92	28342	No
20	GOM_TRA_1PNPDE20070802_014354_000000372060_00232_28342_0412.N1	02-AUG-2007 01:43:54	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	28342	No
21	GOM_TRA_1PNPDE20070802_015342_000000352060_00232_28342_0413.N1	02-AUG-2007 01:53:42	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28342	No
22	GOM_TRA_1PNPDE20070802_020047_000000372060_00232_28342_0414.N1	02-AUG-2007 02:00:47	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	28342	No
23	GOM_TRA_1PNPDE20070802_020435_000000382060_00232_28342_0415.N1	02-AUG-2007 02:04:35	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	28342	No
24	GOM_TRA_1PNPDE20070802_021245_000000322060_00232_28342_0416.N1	02-AUG-2007 02:12:45	Bright	32.000	60	7Bet UMi	2.0810	3950.0	64	28342	No
25	GOM_TRA_1PNPDE20070802_021518_000000352060_00232_28342_0417.N1	02-AUG-2007 02:15:18	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	28342	No
26	GOM_TRA_1PNPDE20070802_022810_000000352060_00232_28342_0553.N1	02-AUG-2007 02:28:10	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	28342	No
27	GOM_TRA_1PNPDE20070802_023024_000000522060_00232_28342_0554.N1	02-AUG-2007 02:30:24	Bright	52.000	107	37The Aur	2.6490	11000.	104	28342	No
28	GOM_TRA_1PNPDE20070802_023518_000000402060_00232_28342_0555.N1	02-AUG-2007 02:35:18	Twi_and_stray	40.000	176	23Zet Tau	3.0200	22000.	80	28342	No
29	GOM_TRA_1PNPDE20070802_023858_000000482060_00232_28342_0556.N1	02-AUG-2007 02:38:58	Dark	48.000	14	58Alp Ori	0.87000	3000.0	96	28342	No
30	GOM_TRA_1PNPDE20070802_024144_000000432060_00232_28342_0557.N1	02-AUG-2007 02:41:44	Dark	43.000	30	46Eps Ori	1.6940	30000.	86	28342	No
31	GOM_TRA_1PNPDE20070802_024351_000000422060_00232_28342_0558.N1	02-AUG-2007 02:43:51	Dark	41.500	56	53Kap Ori	2.0650	30000.	83	28342	No
32	GOM_TRA_1PNPDE20070802_024534_000000412060_00232_28342_0559.N1	02-AUG-2007 02:45:34	Dark	40.500	47	2Bet CMa	1.9760	28000.	81	28342	No
33	GOM_TRA_1PNPDE20070802_024718_000000422060_00232_28342_0560.N1	02-AUG-2007 02:47:18	Dark	41.500	139	9Bet Lep	2.8330	5600.0	83	28342	No
34	GOM_TRA_1PNPDE20070802_024855_000000362060_00232_28342_0561.N1	02-AUG-2007 02:48:55	Dark	35.500	177	1Zet CMa	3.0220	26000.	71	28342	No
35	GOM_TRA_1PNPDE20070802_030308_000000412060_00233_28343_0562.N1	02-AUG-2007 03:03:08	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	28343	No
36	GOM_TRA_1PNPDE20070802_030541_000000362060_00233_28343_0563.N1	02-AUG-2007 03:05:41	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	28343	No
37	GOM_TRA_1PNPDE20070802_031035_000000422060_00233_28343_0564.N1	02-AUG-2007 03:10:35	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	28343	No
38	GOM_TRA_1PNPDE20070802_031346_000000392060_00233_28343_0565.N1	02-AUG-2007 03:13:46	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	28343	No
39	GOM_TRA_1PNPDE20070802_032207_000000422060_00233_28343_0566.N1	02-AUG-2007 03:22:07	Bright	42.000	103	38Zet Sgr	2.6000	9700.0	84	28343	No
40	GOM_TRA_1PNPDE20070802_032430_000000372060_00233_28343_0567.N1	02-AUG-2007 03:24:30	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	28343	No
41	GOM_TRA_1PNPDE20070802_033418_000000352060_00233_28343_0568.N1	02-AUG-2007 03:34:18	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28343	No
42	GOM_TRA_1PNPDE20070802_034123_000000342060_00233_28343_0569.N1	02-AUG-2007 03:41:23	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	28343	No
43	GOM_TRA_1PNPDE20070802_034511_000000372060_00233_28343_0570.N1	02-AUG-2007 03:45:11	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	28343	No
44	GOM_TRA_1PNPDE20070802_035321_000000342060_00233_28343_0571.N1	02-AUG-2007 03:53:21	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	28343	No
45	GOM_TRA_1PNPDE20070802_035554_000000362060_00233_28343_0572.N1	02-AUG-2007 03:55:54	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28343	No
46	GOM_TRA_1PNPDE20070802_040846_000000362060_00233_28343_0746.N1	02-AUG-2007 04:08:46	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	28343	No
47	GOM_TRA_1PNPDE20070802_041100_000000362060_00233_28343_0747.N1	02-AUG-2007 04:11:00	Bright	35.500	107	37The Aur	2.6490	11000.	71	28343	No
48	GOM_TRA_1PNPDE20070802_041554_000000382060_00233_28343_0748.N1	02-AUG-2007 04:15:54	Twi_and_stray	38.000	176	23Zet Tau	3.0200	22000.	76	28343	No

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



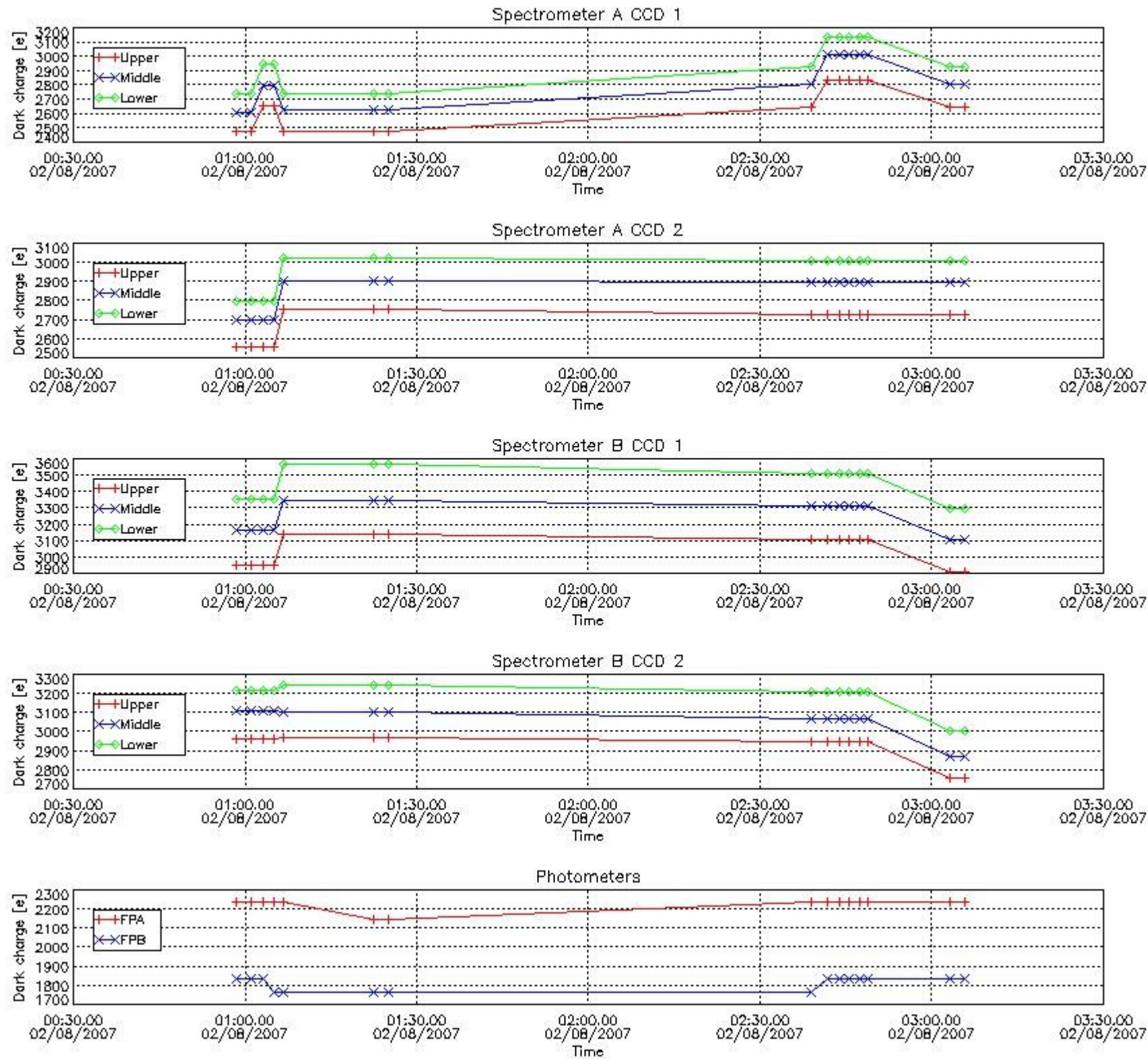
4. Overview of dark signal processing per product

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



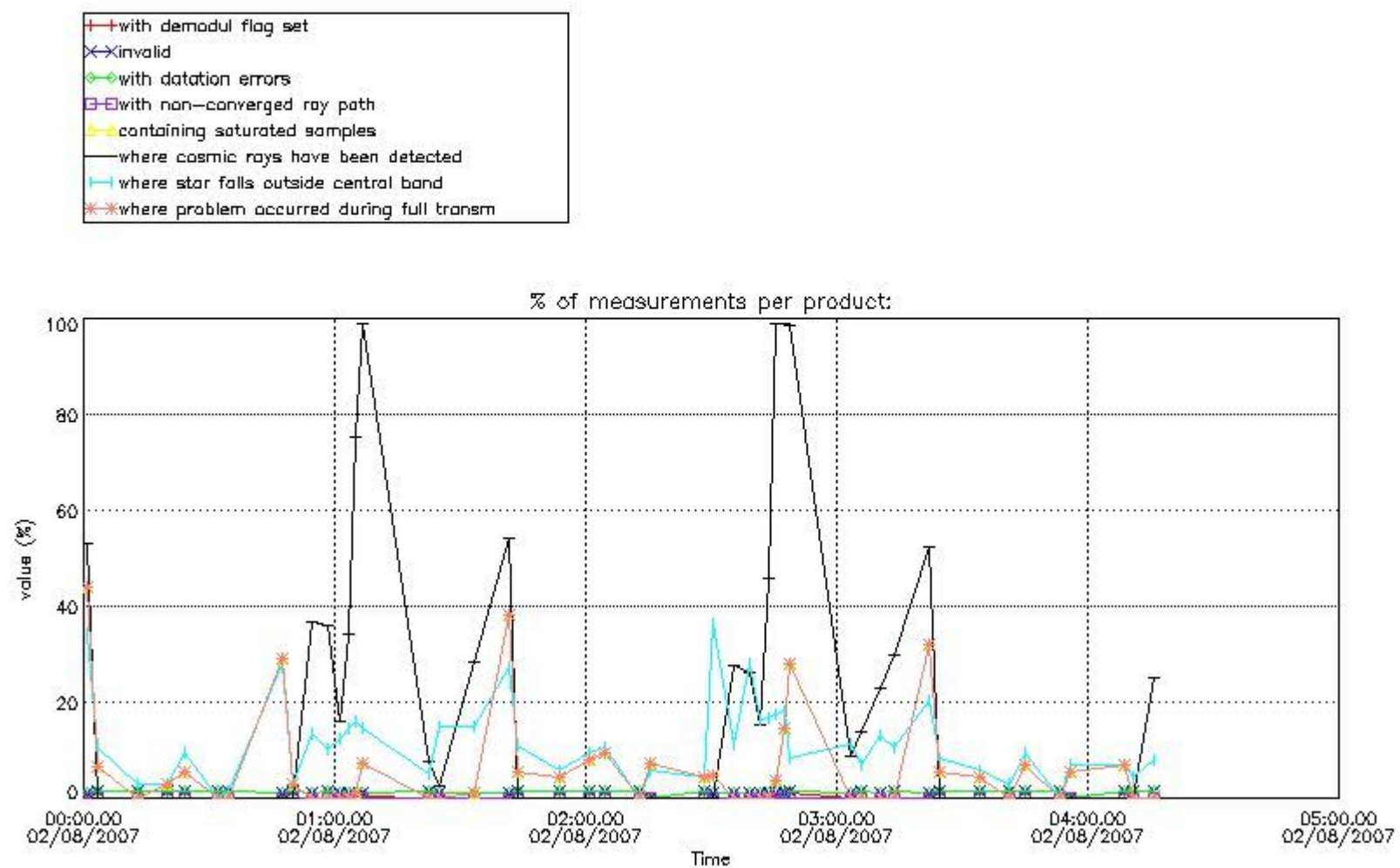
5. Demodulation flag and quality information monitoring

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.

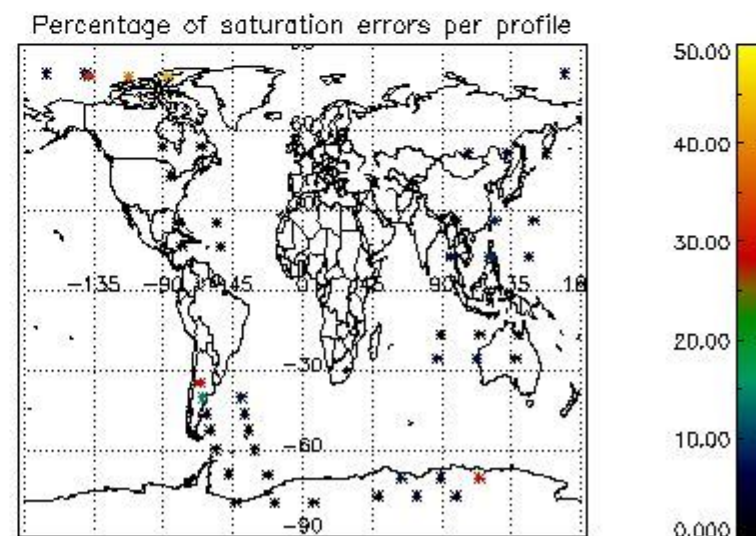
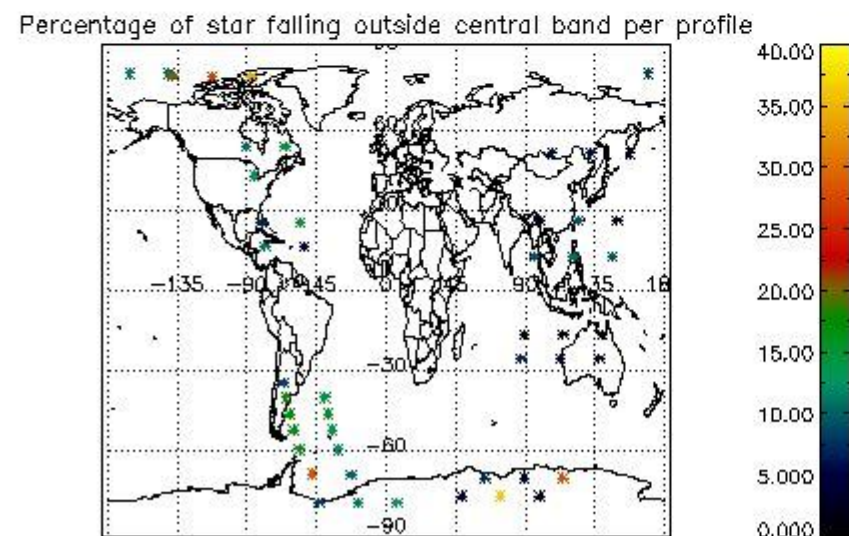
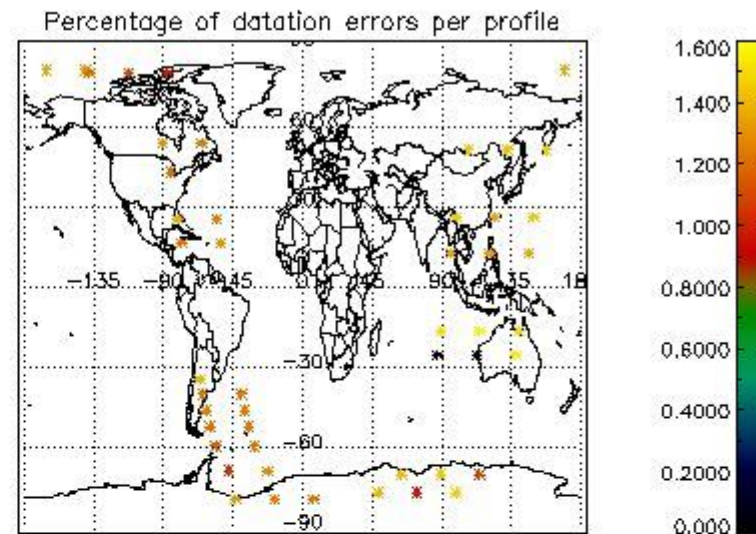
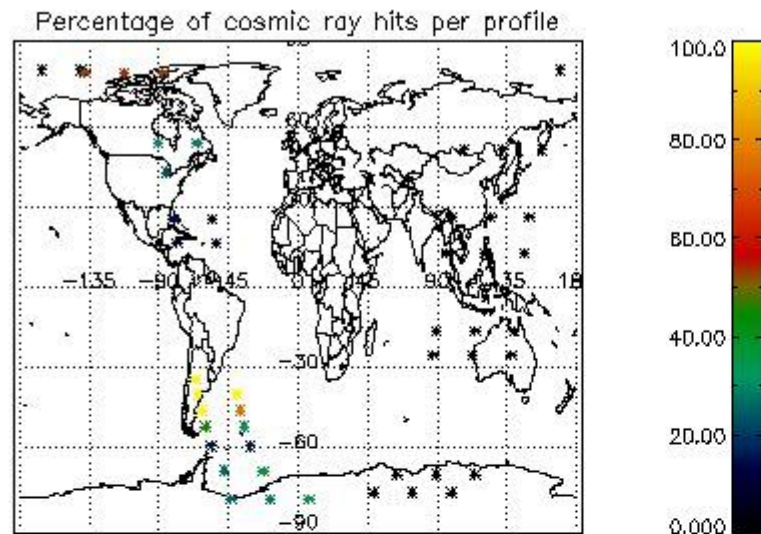
5.1 Percentage of products during reporting period with:

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)



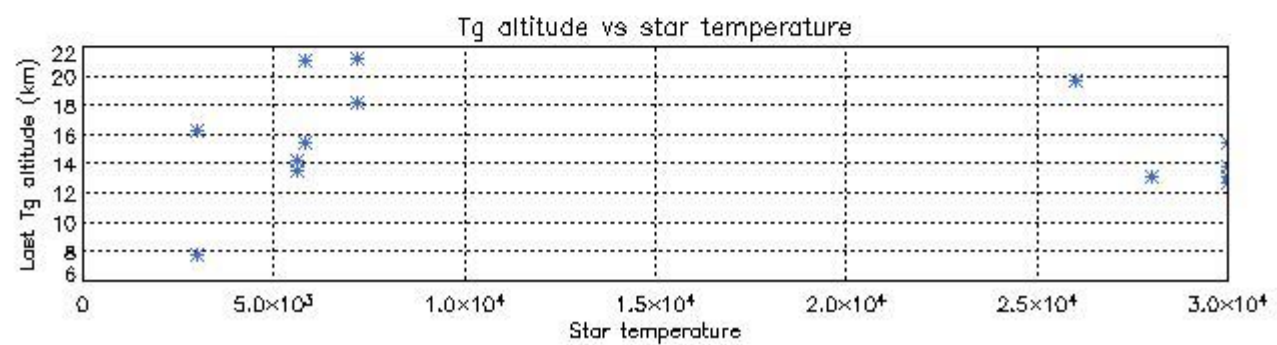
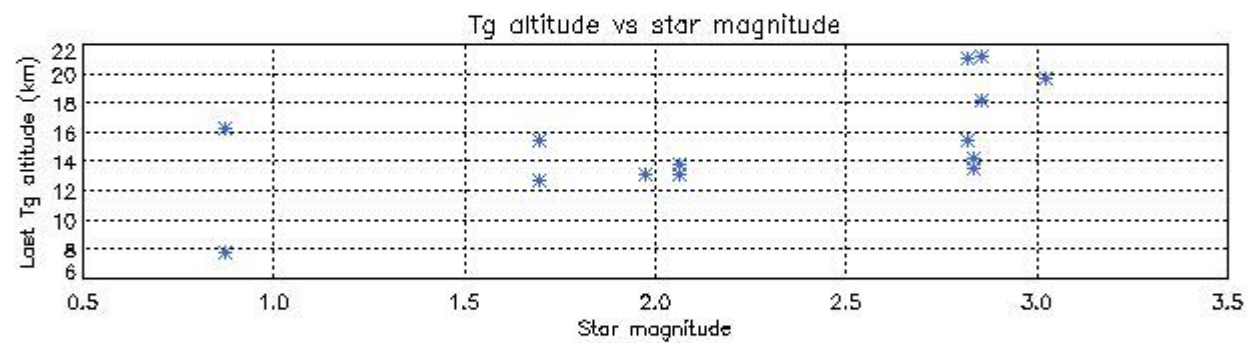
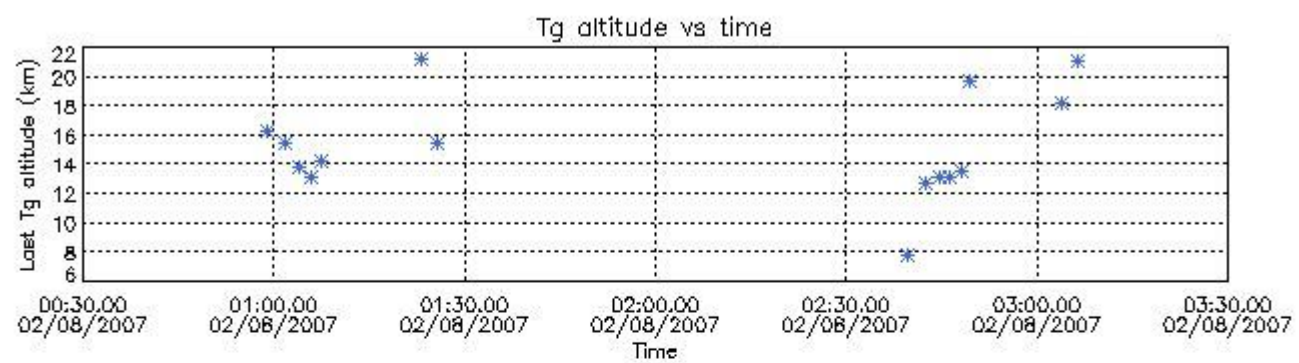
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.240	19.672	NaN
St. deviation:	3.5867	6.7913	NaN
Maximum:	21.148	30.538	NaN
Minimum:	7.8356	4.3222	NaN
Number of data:	15.000	27.000	NaN

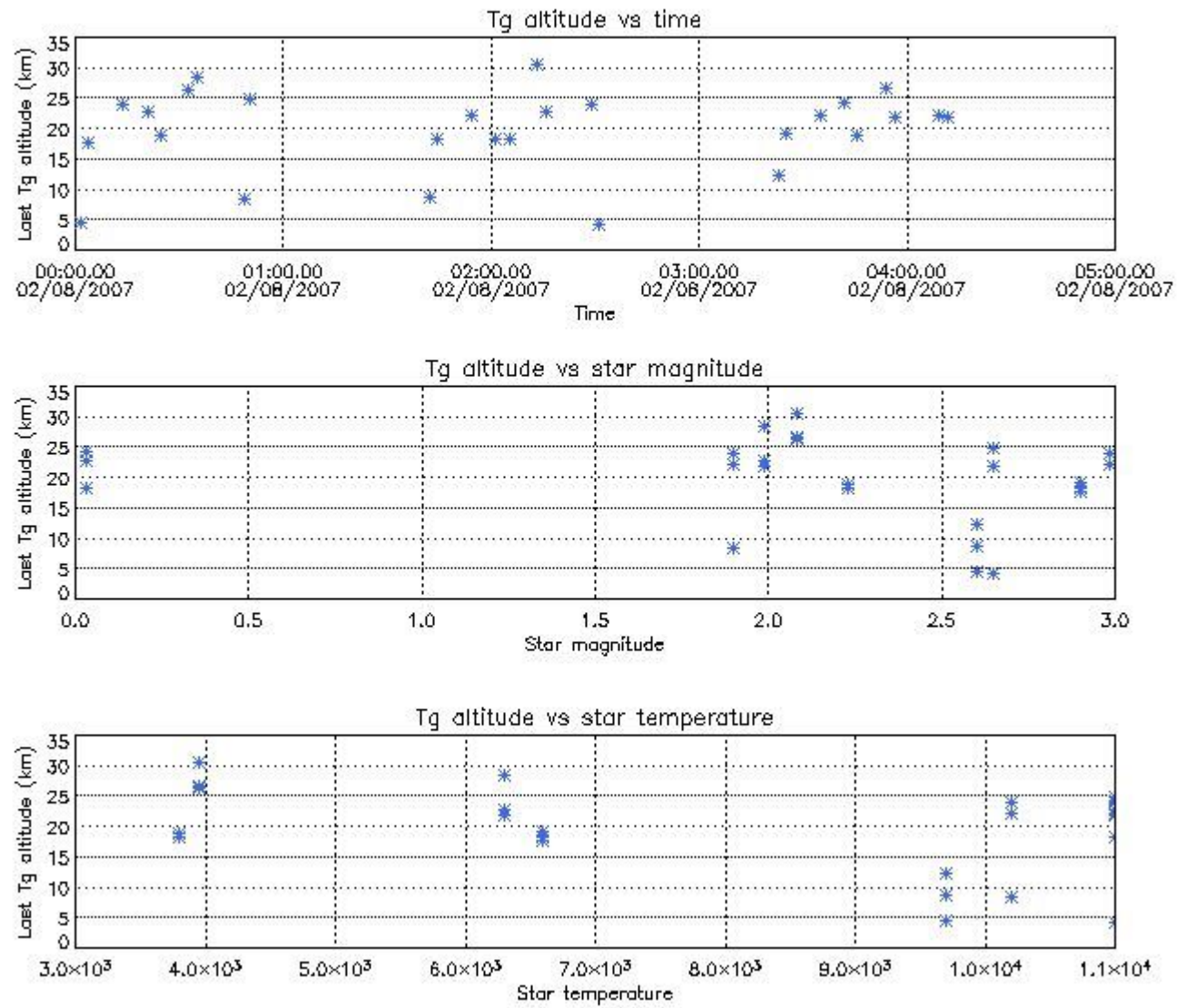
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

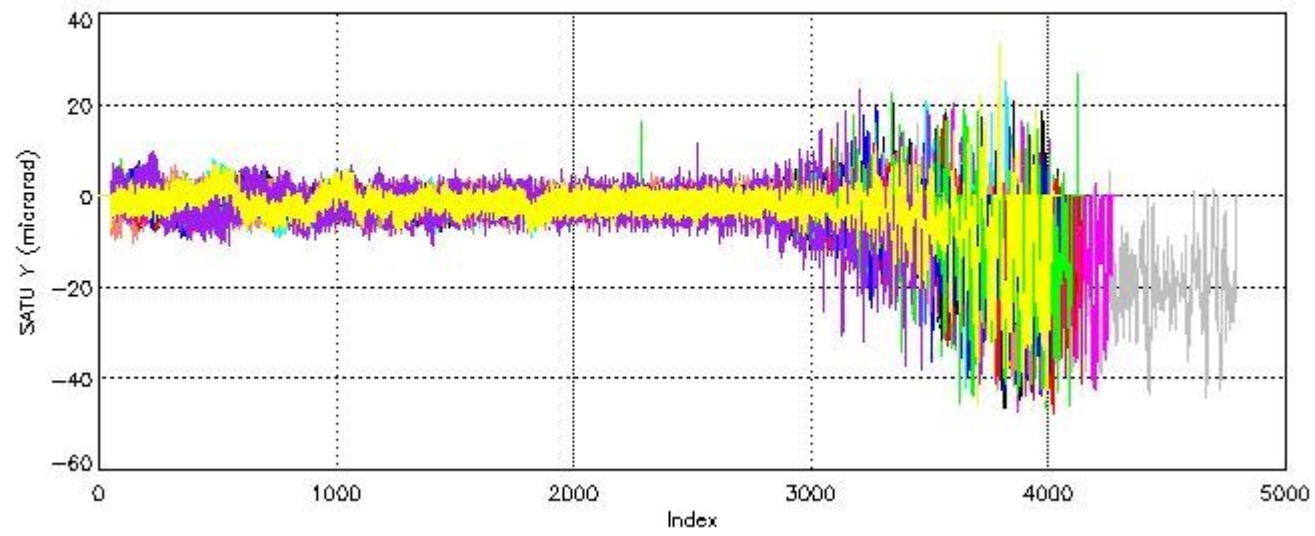
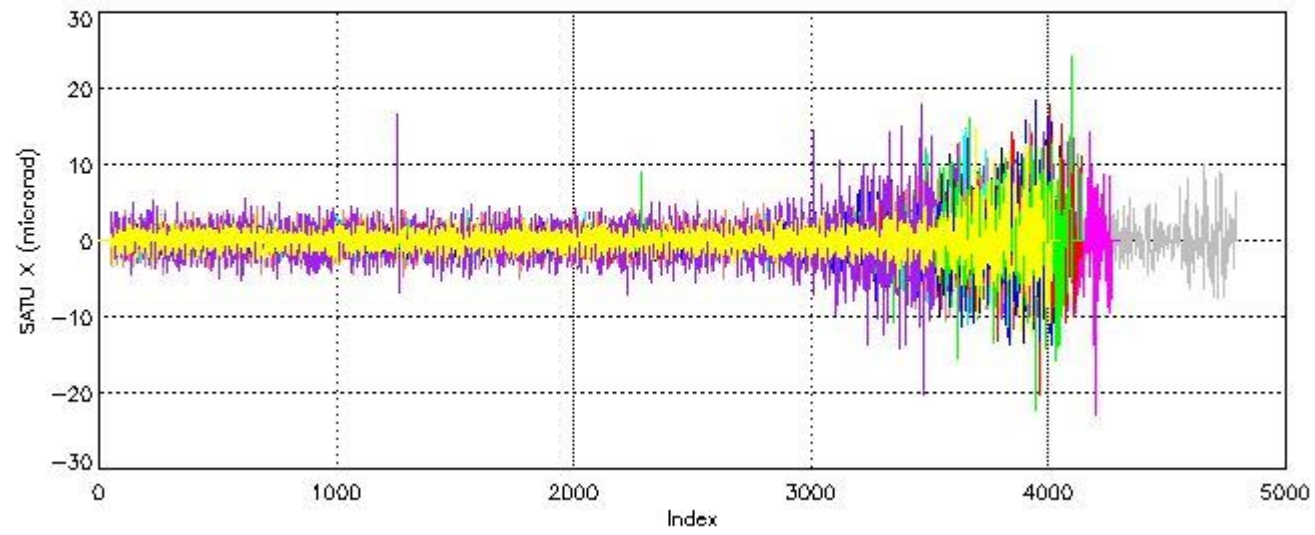


7. Star Acquisition and Tracking Unit (SATU)

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:	-0.0088296	-1.4177	0.017286	-1.1031
St. deviation:	0.74076	2.6269	0.77760	2.6966
Maximum:	5.4000	9.9000	5.7000	10.700
Minimum:	-5.3000	-10.700	-5.3000	-11.400

Number of data:	13100.	13100.	22150.	22150.
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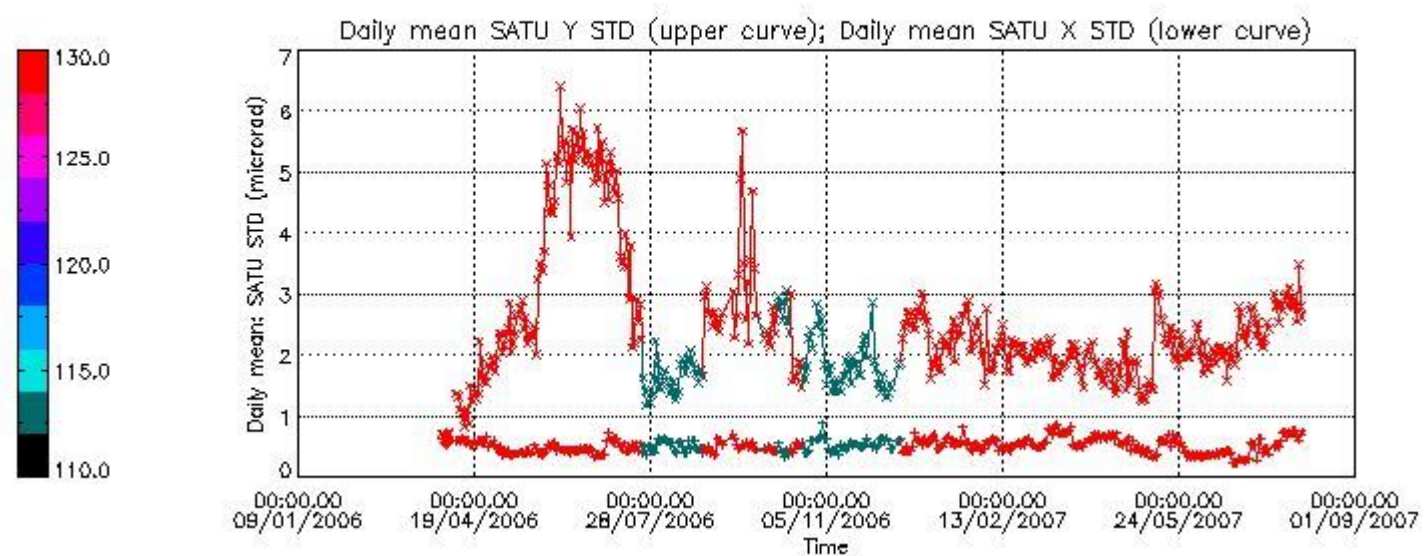
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

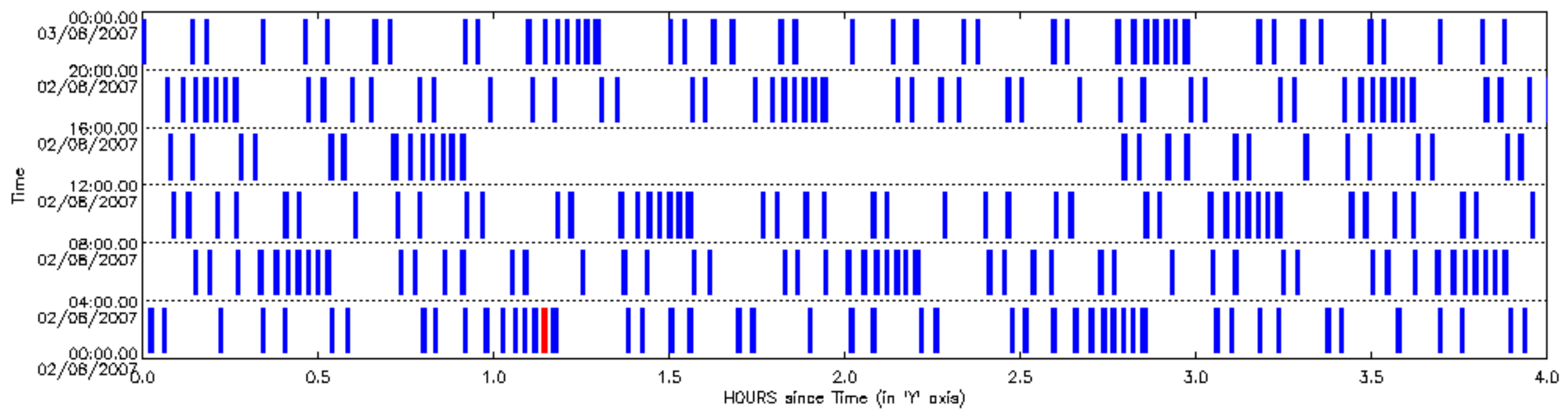
Lower curve: STD of SATU X axis

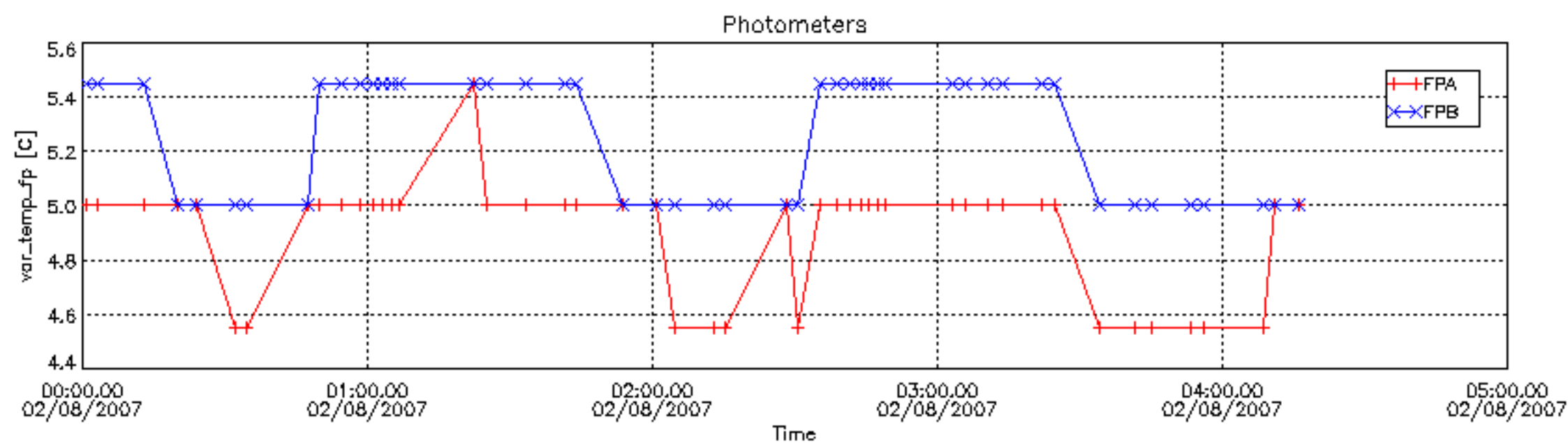
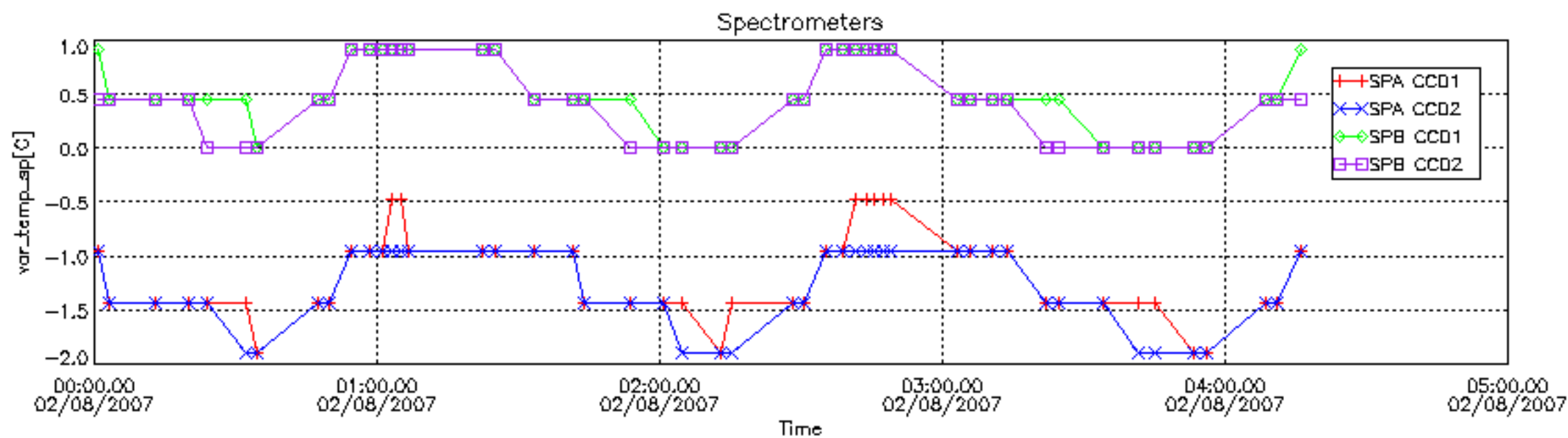


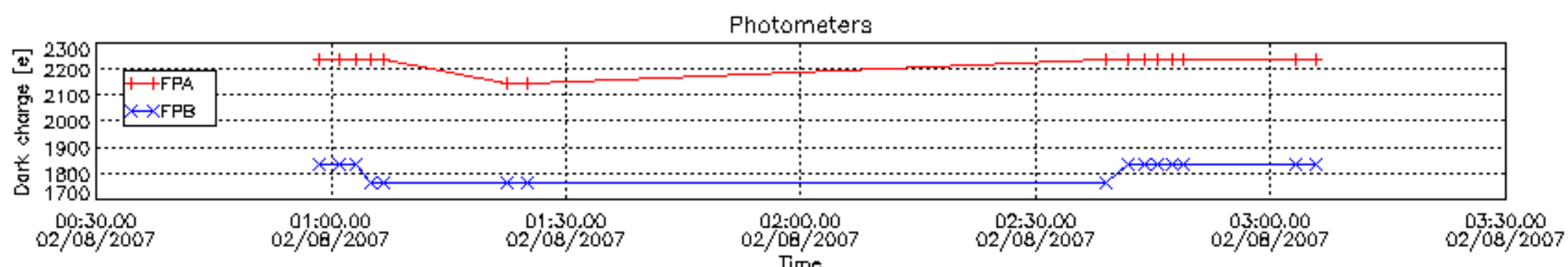
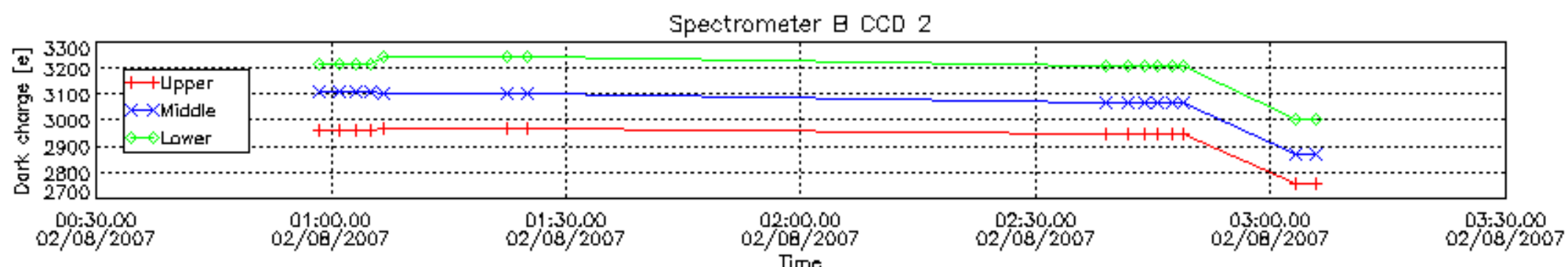
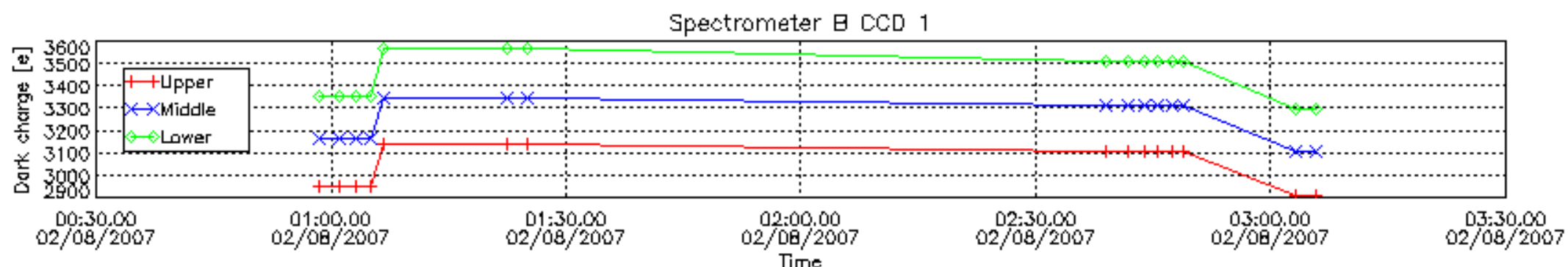
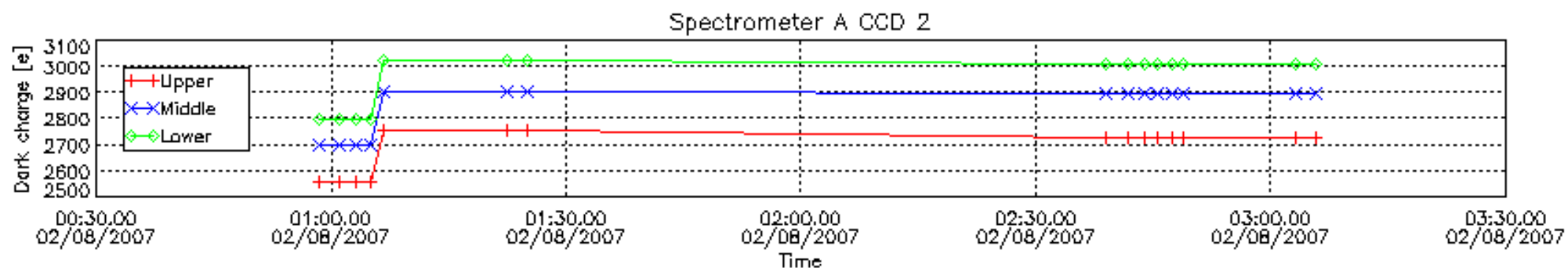
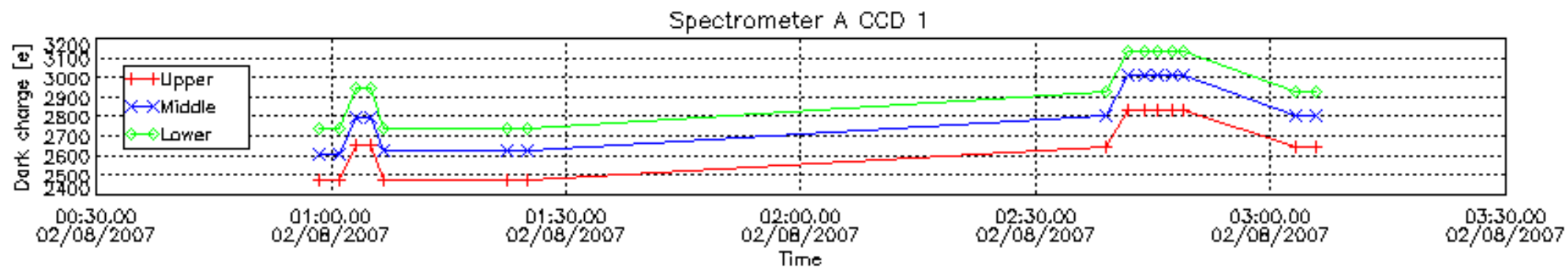
8. Auxiliary Data Files used for the production reported in section 2.4

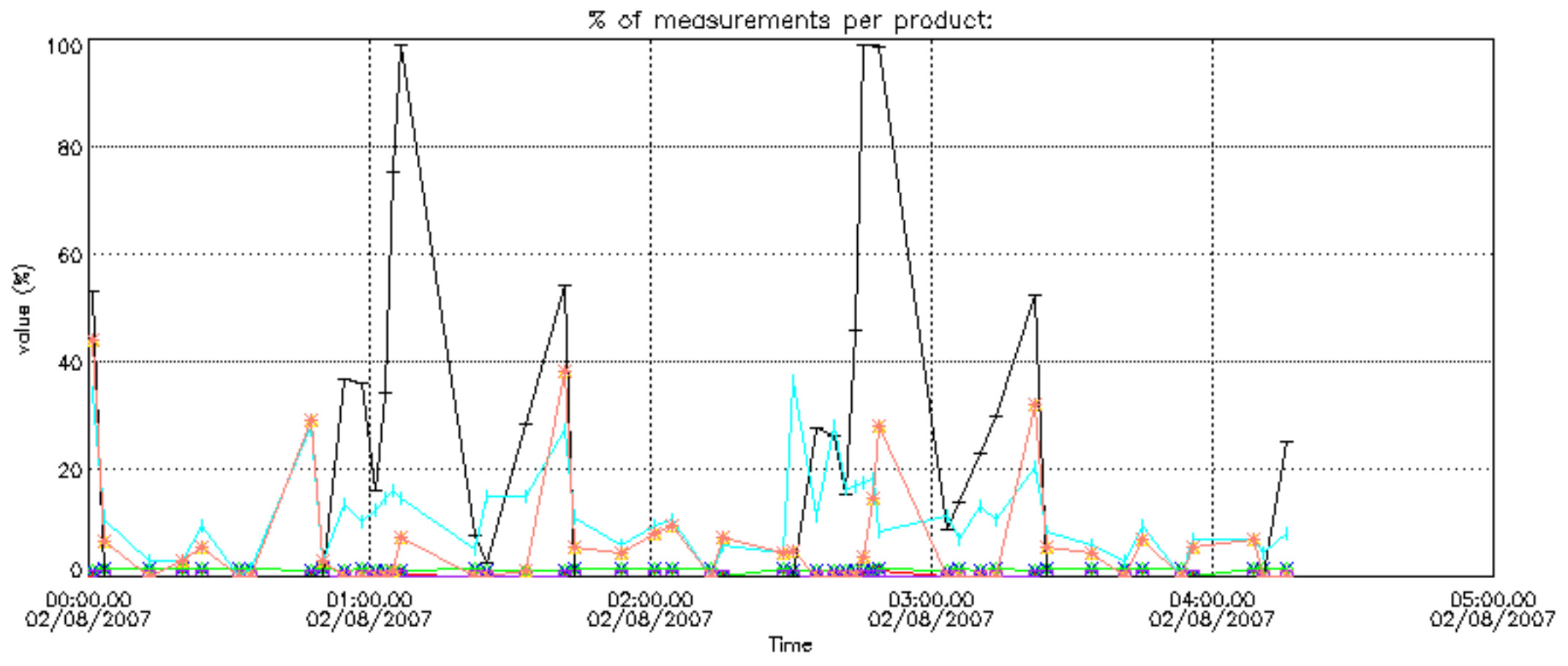
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	02-AUG-2007 00:00:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070726_133456_20070725_000000_20100101_000000	1	02-AUG-2007 00:00:55
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	02-AUG-2007 00:00:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-AUG-2007 00:00:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	02-AUG-2007 00:00:55
ECMWF_FILE	AUX_ECF_AXNECM20070801_062113_20070801_210000_20070802_090000	1	02-AUG-2007 00:00:55
ECMWF_FILE	AUX_ECF_AXNECM20070801_182115_20070802_030000_20070802_150000	46	02-AUG-2007 04:08:46
OPTIONAL_ECMWF_FILE	MISSING	1	02-AUG-2007 00:00:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070801_214127_000057382060_00229_28339_3882.N1	1	02-AUG-2007 00:00:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070801_232224_000057382060_00230_28340_3883.N1	15	02-AUG-2007 01:06:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070802_021225_000060572060_00232_28342_3885.N1	26	02-AUG-2007 02:28:10

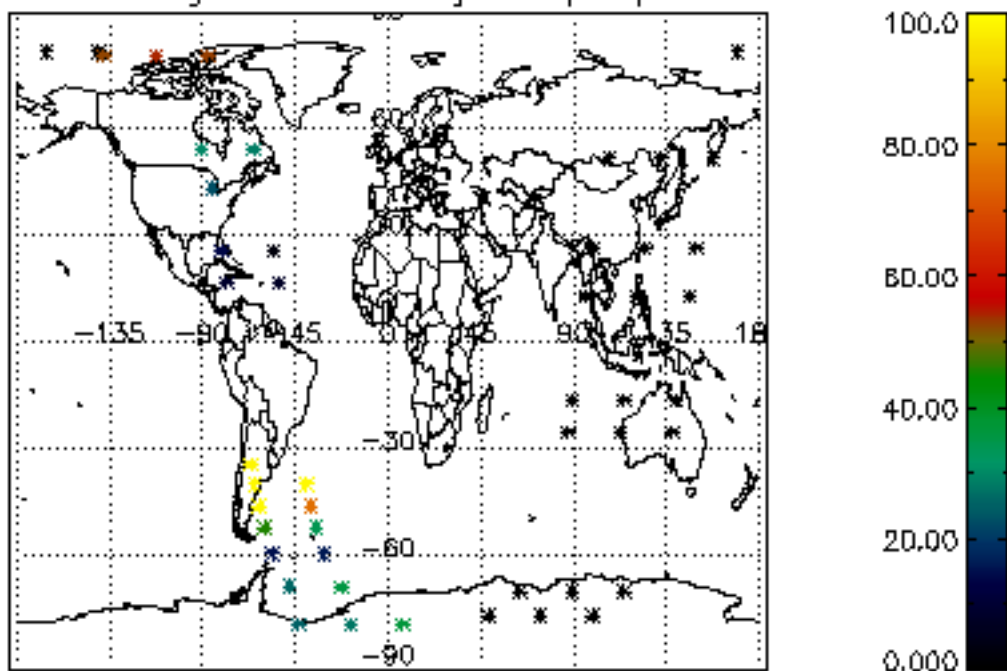




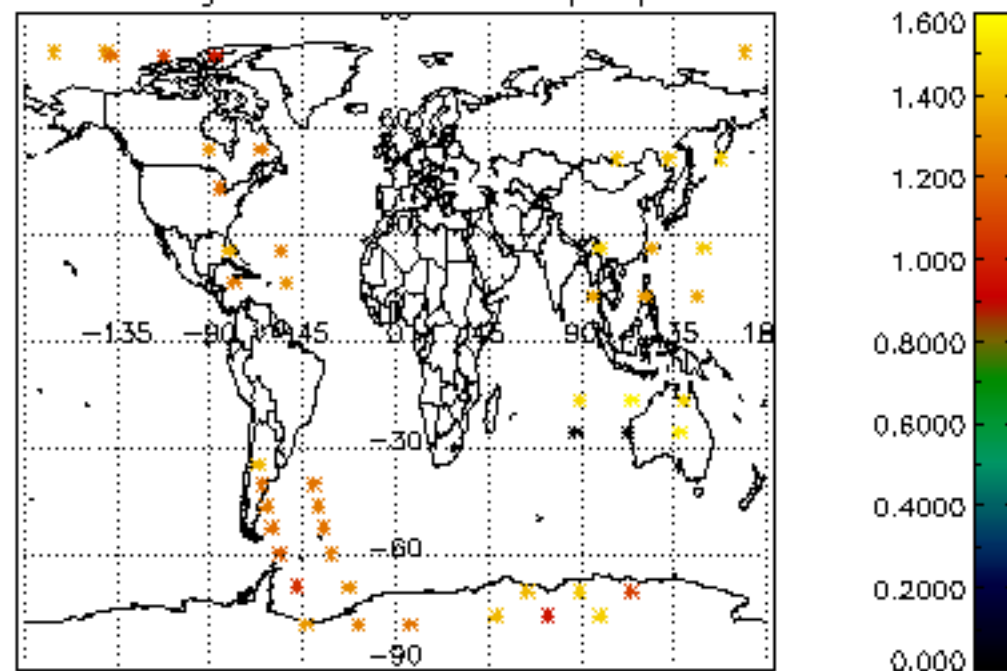




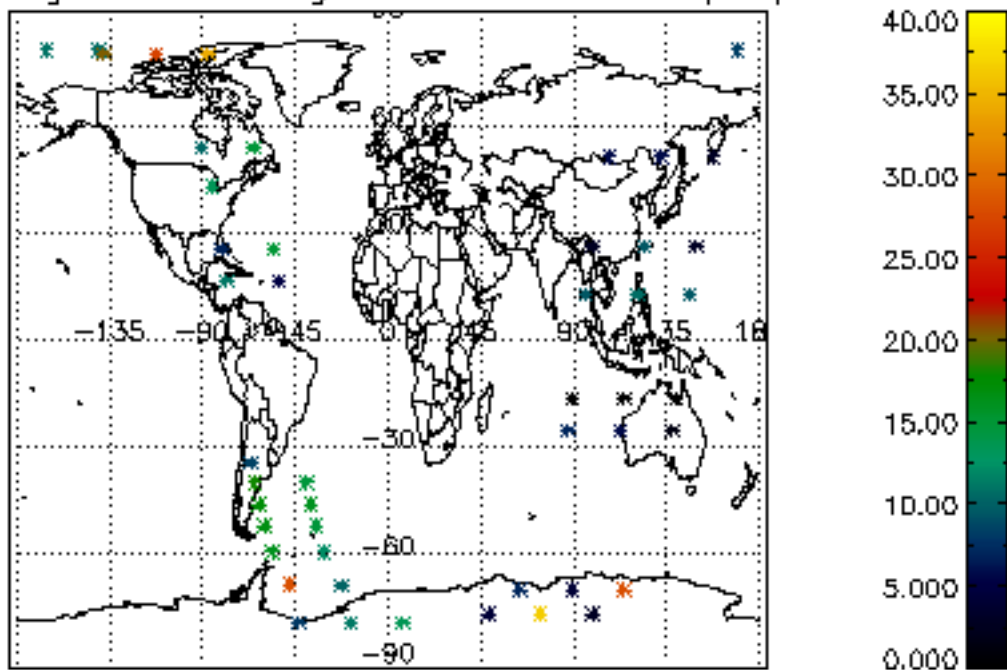
Percentage of cosmic ray hits per profile



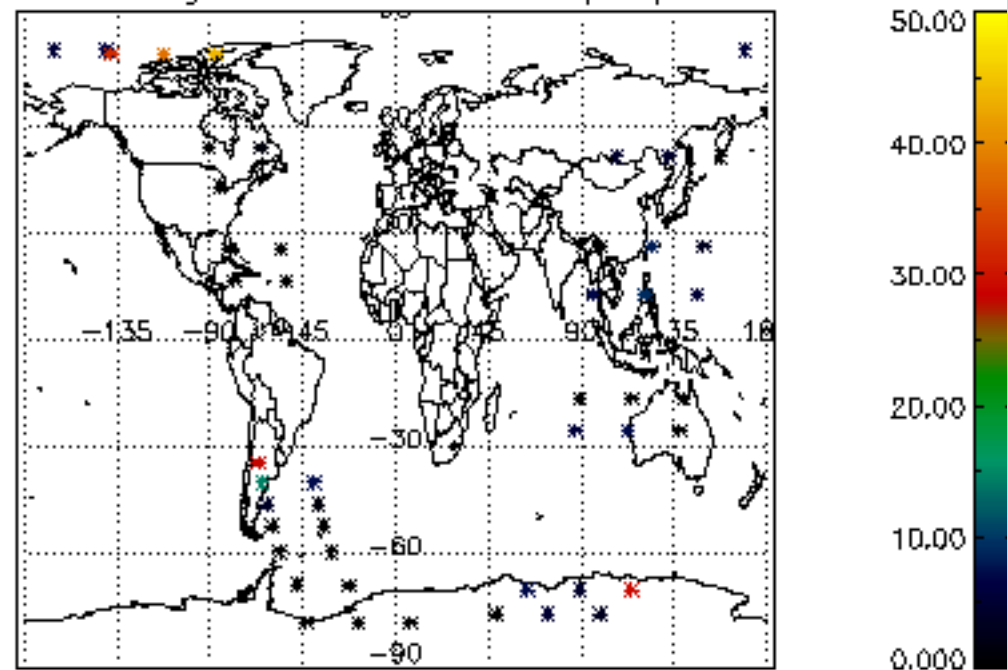
Percentage of datation errors per profile



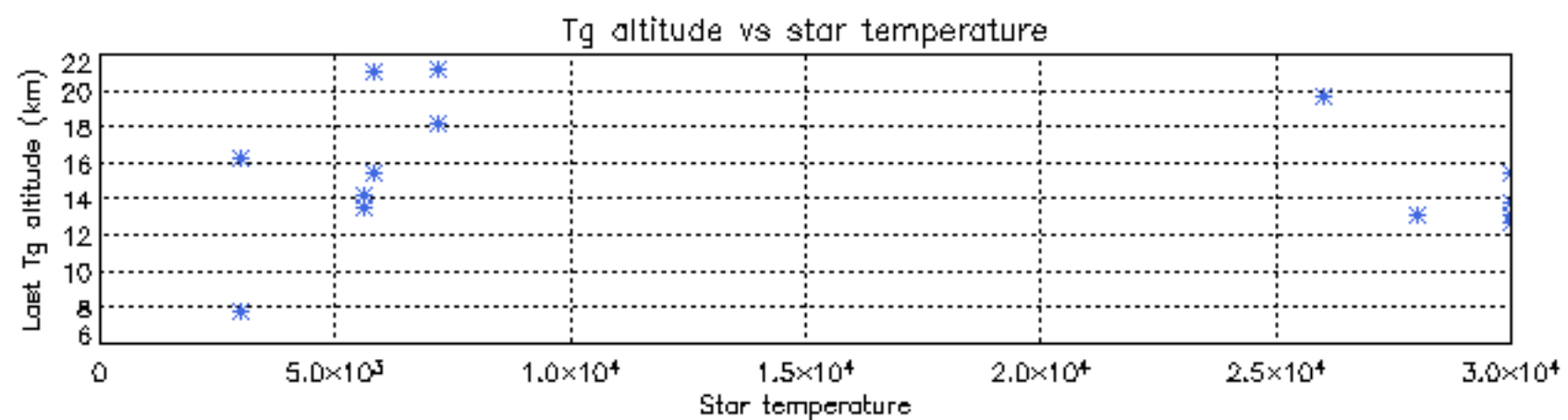
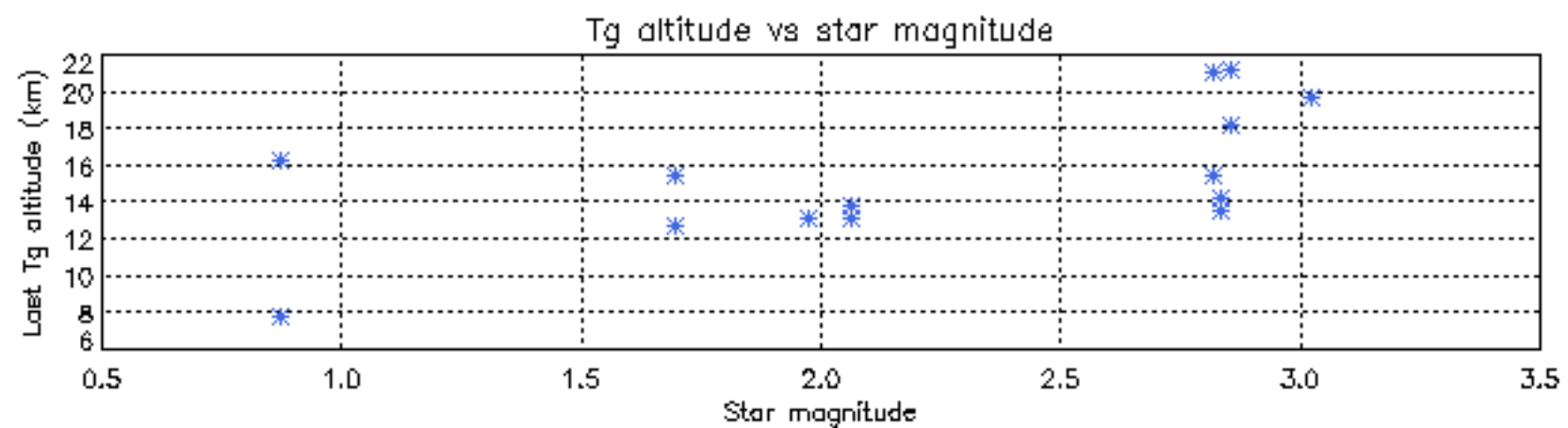
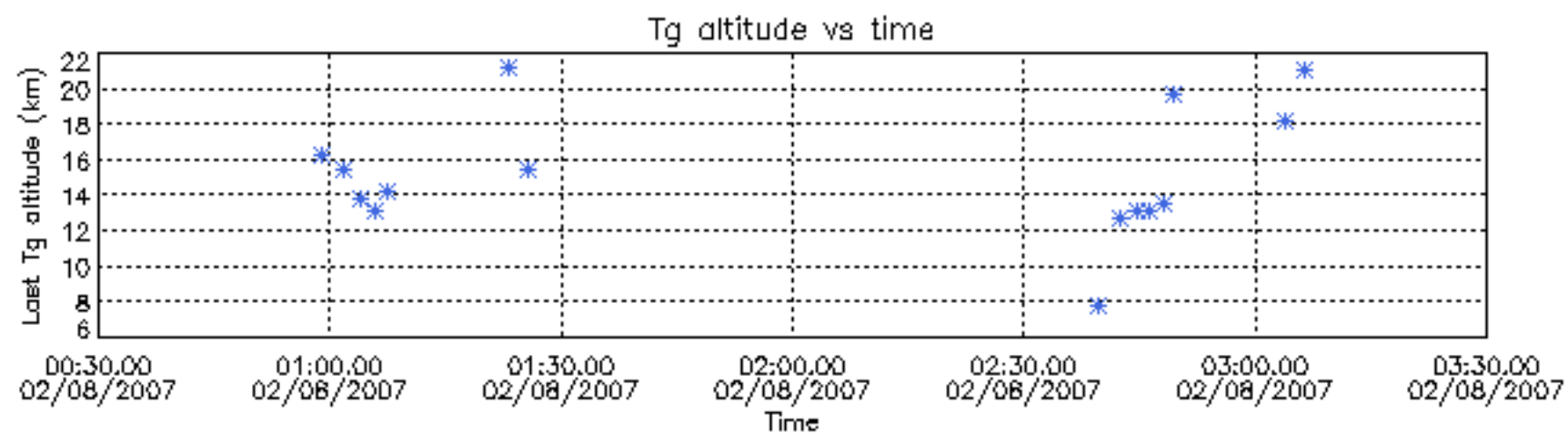
Percentage of star falling outside central band per profile



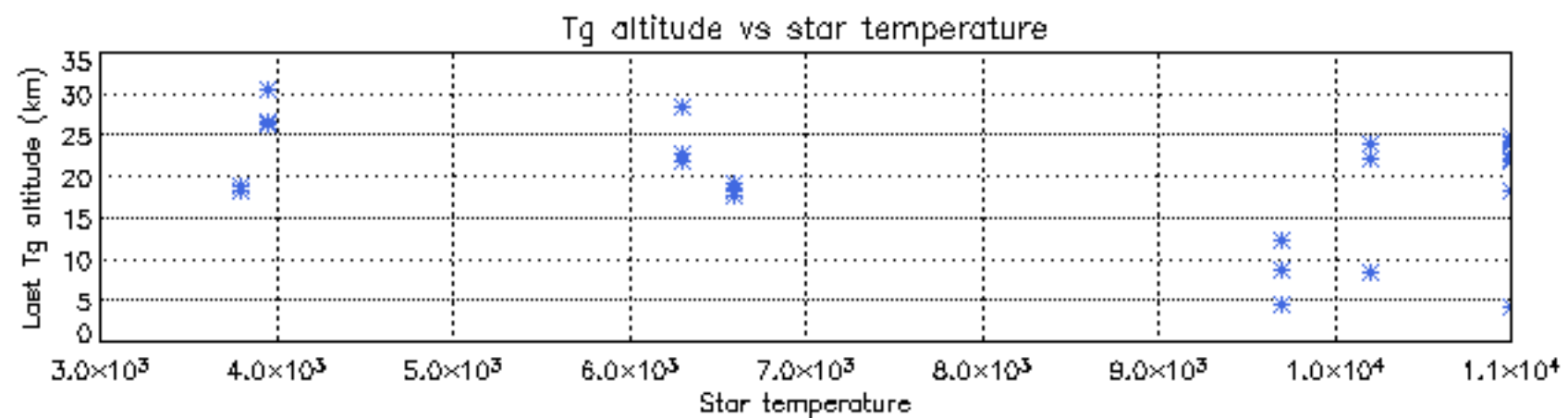
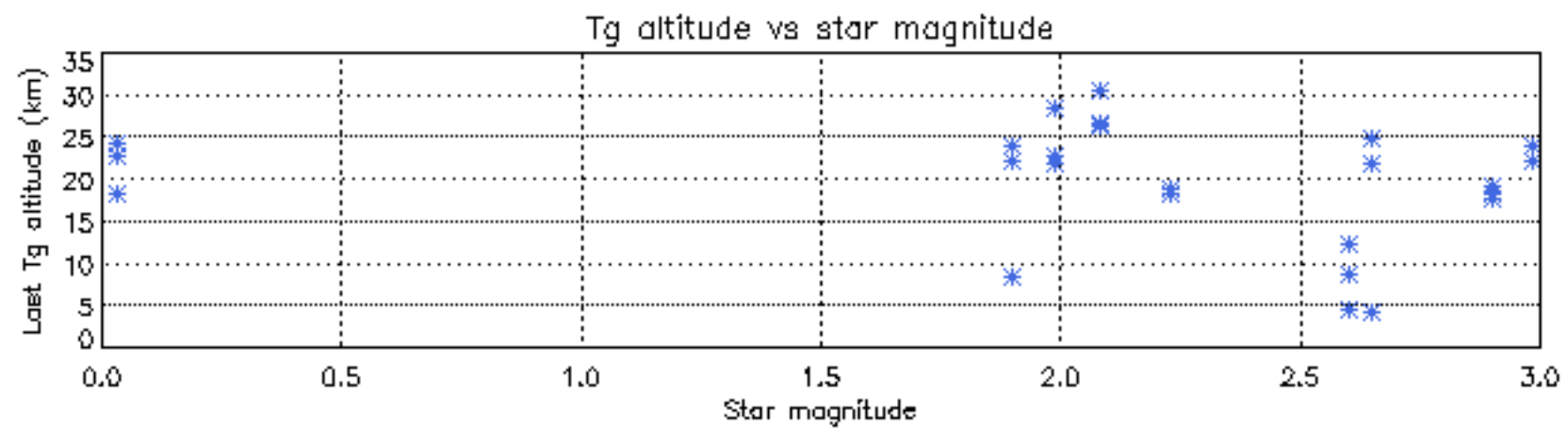
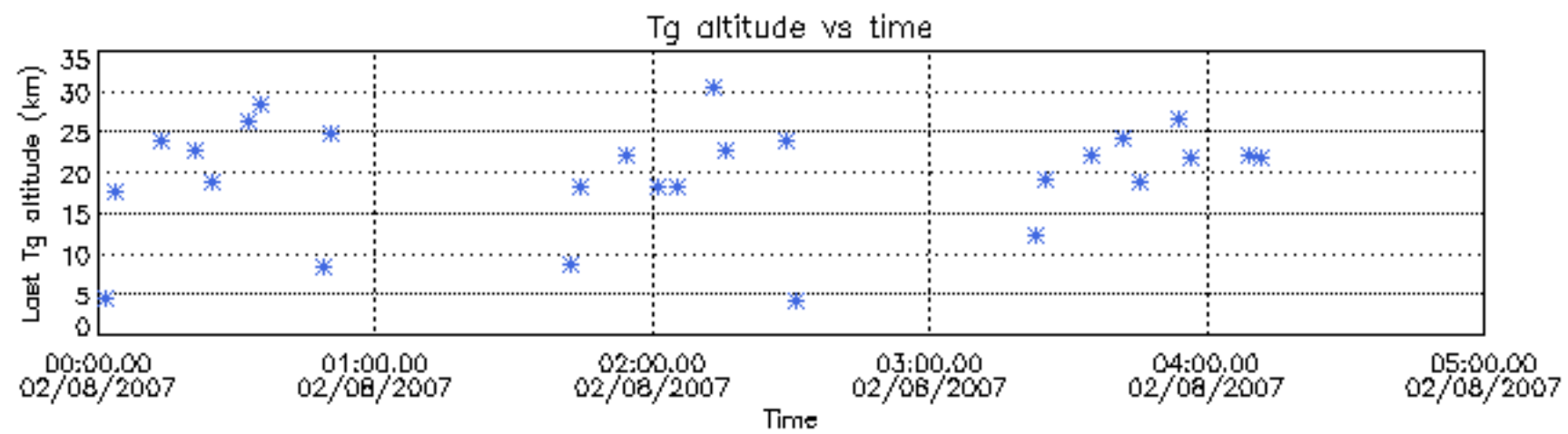
Percentage of saturation errors per profile

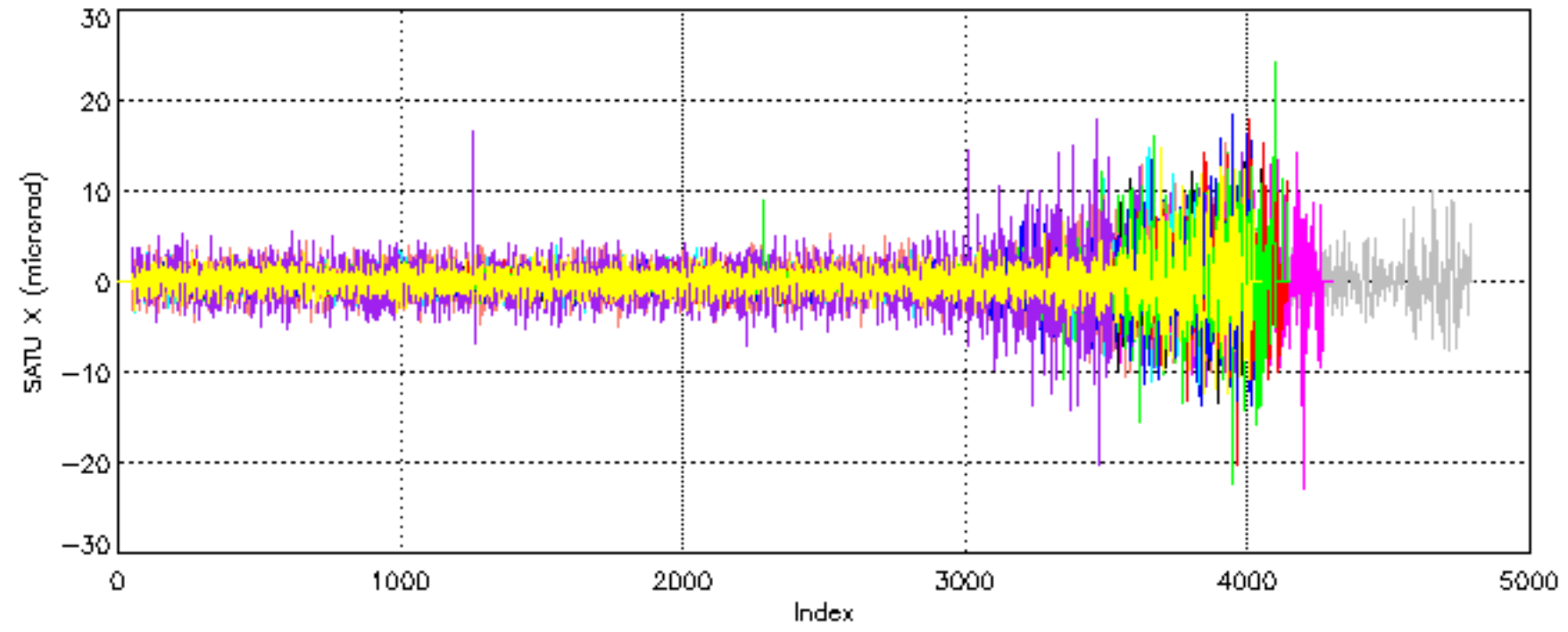


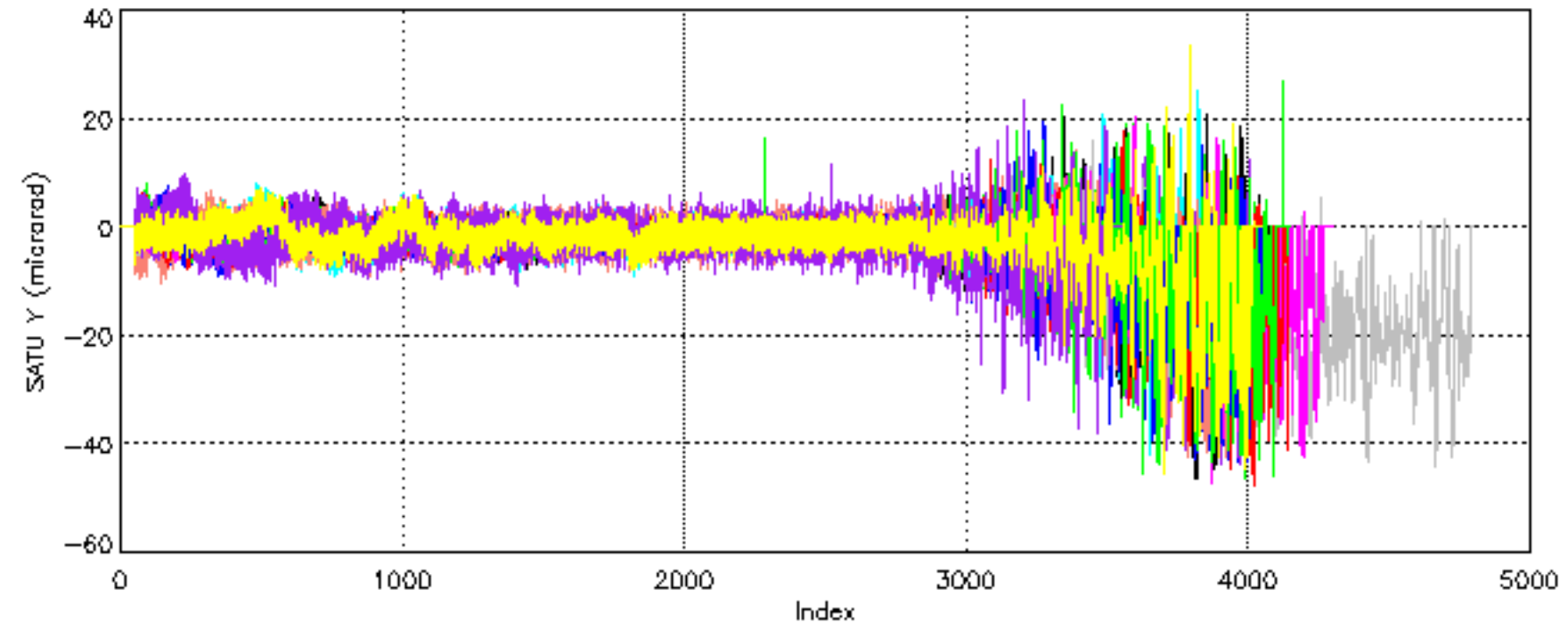
Tangent altitude at which the star is lost

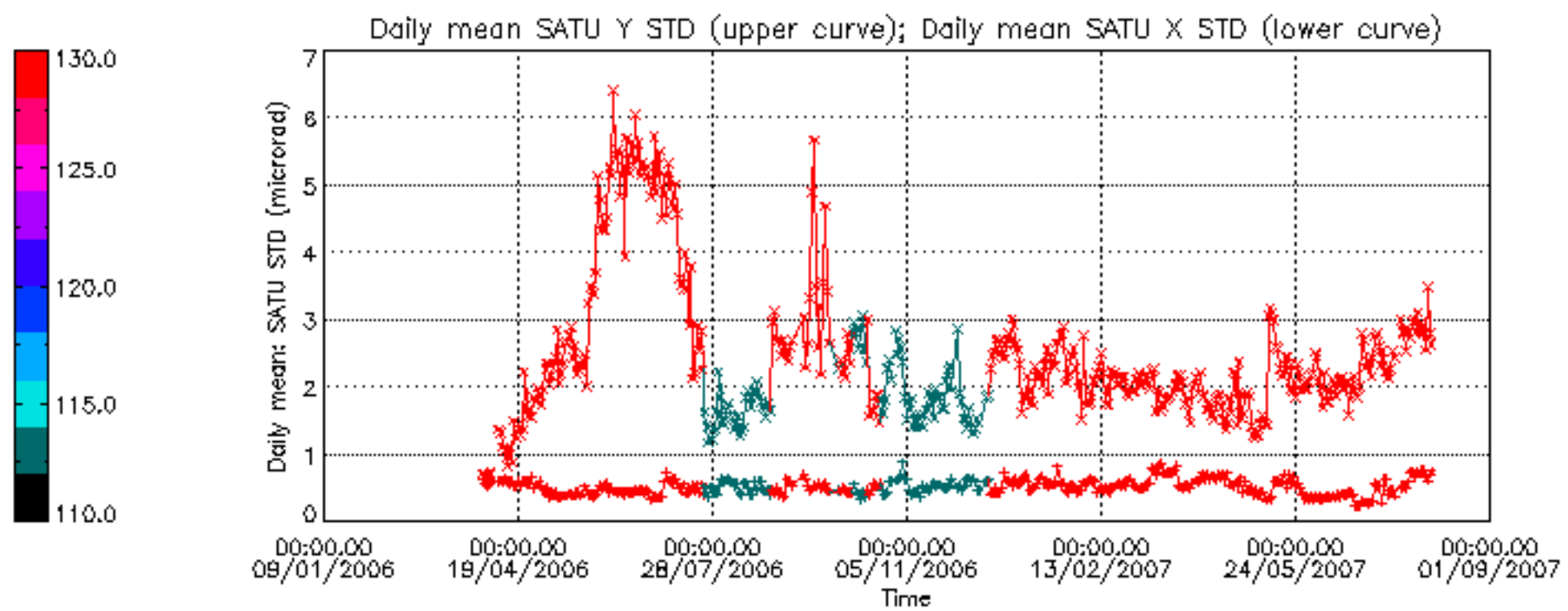


Tangent altitude at which the star is lost









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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
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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
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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
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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
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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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1; -675.7; 01-AUG-2007 23:26:05; Dark ; 42.5; 139; 9Bet Lep ; 2.83; 5600;occ; 85; 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
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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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 12; 5563.7; 23-AUG-2007 16:55:41; Dark ; 39.5; 177; 1Zet CMa ; 3.02; 26000;occ; 79; 0;28651
 13; 5662.2; 23-AUG-2007 16:57:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28651
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13;	5326.9;	26-AUG-2007	11:55:41;	Dark	;	47.5;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	95;	0;	28691
14;	5412.5;	26-AUG-2007	11:57:07;	Dark	;	39.5;	179;	240mi2	CMA	;	3.03;	24000;	occ;	79;	0;	28691
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20; 7077.5; 30-AUG-2007 10:18:24; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;28747
21; 7357.2; 30-AUG-2007 10:23:03; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28747
22; 7651.6; 30-AUG-2007 10:27:58; Dark ; 38.0; 142; 49Del Cap ; 2.85; 8900;occ; 76; 0;28747

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4; 2486.4; 30-AUG-2007 10:42:29; Bright; 34.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 68; 0;28748
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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
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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
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3; 1896.6; 30-AUG-2007 13:53:50; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28750

4; 2077.3; 30-AUG-2007 13:56:51; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28750
 5; 2486.7; 30-AUG-2007 14:03:40; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28750
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 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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 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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 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
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 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
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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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9; 1323.9; 31-AUG-2007 01:28:29; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28757
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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
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 2; 1896.2; 31-AUG-2007 10:01:01; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28762
 3; 2076.4; 31-AUG-2007 10:04:01; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28762

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4; 2486.9; 31-AUG-2007 10:10:52; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28762
5; 2677.7; 31-AUG-2007 10:14:03; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;28762
6; 2977.3; 31-AUG-2007 10:19:02; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;28762
7; 3434.9; 31-AUG-2007 10:26:40; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28762
8; 4450.4; 31-AUG-2007 10:43:35; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28762
9; 4608.5; 31-AUG-2007 10:46:13; Dark ; 50.0; 170; 27Eps Gem ; 3.00; 9700;occ; 100; 0;28762
10; 4786.6; 31-AUG-2007 10:49:12; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;28762
11; 4910.1; 31-AUG-2007 10:51:15; Dark ; 42.5; 8; 10Alp CMi ; 0.40; 6500;occ; 85; 0;28762
12; 5365.3; 31-AUG-2007 10:58:50; Dark ; 49.5; 1; 9Alp CMa ; -1.44; 11000;occ; 99; 0;28762
13; 5532.3; 31-AUG-2007 11:01:37; Dark ; 39.5; 23; 21Eps CMa ; 1.50; 26000;occ; 79; 0;28762
14; 5630.3; 31-AUG-2007 11:03:15; Dark ; 41.0; 177; 1Zet CMa ; 3.02; 26000;occ; 82; 0;28762
15; 5725.9; 31-AUG-2007 11:04:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28762
16; 6555.4; 31-AUG-2007 11:18:40; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28762
17; 6631.4; 31-AUG-2007 11:19:56; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;28762
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
20; 7361.6; 31-AUG-2007 11:32:07; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28762
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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3; 1896.1; 31-AUG-2007 11:41:37; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28763
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
9; 4450.5; 31-AUG-2007 12:24:11; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 0;28763
10; 4608.7; 31-AUG-2007 12:26:50; Dark ; 51.5; 170; 27Eps Gem ; 3.00; 9700;occ; 103; 0;28763
11; 4787.2; 31-AUG-2007 12:29:48; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;28763
12; 4910.4; 31-AUG-2007 12:31:51; Dark ; 44.5; 8; 10Alp CMi ; 0.40; 6500;occ; 89; 0;28763
13; 5365.8; 31-AUG-2007 12:39:27; Dark ; 47.5; 1; 9Alp CMa ; -1.44; 11000;occ; 95; 0;28763
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15; 5631.1; 31-AUG-2007 12:43:52; Dark ; 40.5; 177; 1Zet CMa ; 3.02; 26000;occ; 81; 0;28763
16; 5726.6; 31-AUG-2007 12:45:27; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28763
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18; 6632.0; 31-AUG-2007 13:00:33; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;28763
19; 6989.7; 31-AUG-2007 13:06:31; Dark ; 50.5; 84; Alp Phe ; 2.40; 4500;occ; 101; 0;28763
20; 7082.6; 31-AUG-2007 13:08:03; Dark ; 45.0; 63; Bet Gru ; 2.15; 2800;occ; 90; 0;28763
21; 7361.8; 31-AUG-2007 13:12:43; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;28763

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3; 1896.0; 31-AUG-2007 13:22:13; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28764
4; 2076.3; 31-AUG-2007 13:25:13; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28764
5; 2487.0; 31-AUG-2007 13:32:04; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;28764
6; 2677.7; 31-AUG-2007 13:35:14; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;28764
7; 2977.2; 31-AUG-2007 13:40:14; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28764
8; 3434.9; 31-AUG-2007 13:47:52; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28764
9; 4450.8; 31-AUG-2007 14:04:48; Bright; 50.5; 24; 66Alp Gem ; 1.58; 10200;occ; 101; 0;28764
10; 4609.1; 31-AUG-2007 14:07:26; Dark ; 49.5; 170; 27Eps Gem ; 3.00; 9700;occ; 99; 0;28764
11; 4787.5; 31-AUG-2007 14:10:24; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;28764
12; 4910.8; 31-AUG-2007 14:12:28; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;28764
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14; 5533.4; 31-AUG-2007 14:22:50; Dark ; 43.0; 23; 21Eps CMa ; 1.50; 26000;occ; 86; 0;28764
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19; 6990.5; 31-AUG-2007 14:47:07; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;28764
20; 7083.0; 31-AUG-2007 14:48:40; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;28764
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2; 1806.7; 31-AUG-2007 15:01:19; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28765
3; 1896.1; 31-AUG-2007 15:02:49; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28765
4; 2076.3; 31-AUG-2007 15:05:49; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28765
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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6; 2677.8; 31-AUG-2007 15:15:50; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;28765
7; 2977.1; 31-AUG-2007 15:20:50; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28765
8; 3435.1; 31-AUG-2007 15:28:28; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28765
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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11; 4787.9; 31-AUG-2007 15:51:01; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;28765
12; 4911.2; 31-AUG-2007 15:53:04; Dark ; 47.5; 8; 10Alp CMi ; 0.40; 6500;occ; 95; 0;28765
13; 5367.2; 31-AUG-2007 16:00:40; Dark ; 54.5; 1; 9Alp CMa ; -1.44; 11000;occ; 109; 0;28765
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15; 5632.6; 31-AUG-2007 16:05:05; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 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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10; 4451.1; 31-AUG-2007 17:26:00; Bright; 38.0; 24; 66Alp Gem ; 1.58; 10200;occ; 76; 0;28766
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
15; 5534.5; 31-AUG-2007 17:44:03; Dark ; 44.0; 23; 21Eps CMa ; 1.50; 26000;occ; 88; 0;28766
16; 5633.3; 31-AUG-2007 17:45:42; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28766
17; 5728.6; 31-AUG-2007 17:47:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28766
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5; 1806.7; 31-AUG-2007 18:22:31; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28767
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13; 4609.9; 31-AUG-2007 19:09:15; Dark ; 49.0; 170; 27Eps Gem ; 3.00; 9700;occ; 98; 0;28767
14; 4788.5; 31-AUG-2007 19:12:13; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;28767
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16; 5368.3; 31-AUG-2007 19:21:53; Dark ; 54.0; 1; 9Alp CMa ; -1.44; 11000;occ; 108; 0;28767
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18; 5633.9; 31-AUG-2007 19:26:19; Dark ; 42.0; 177; 1Zet CMa ; 3.02; 26000;occ; 84; 0;28767
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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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