

GOMOS Daily Report 05-MAY-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	07MAY2007 05:33:02
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (05MAY2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (06MAY2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

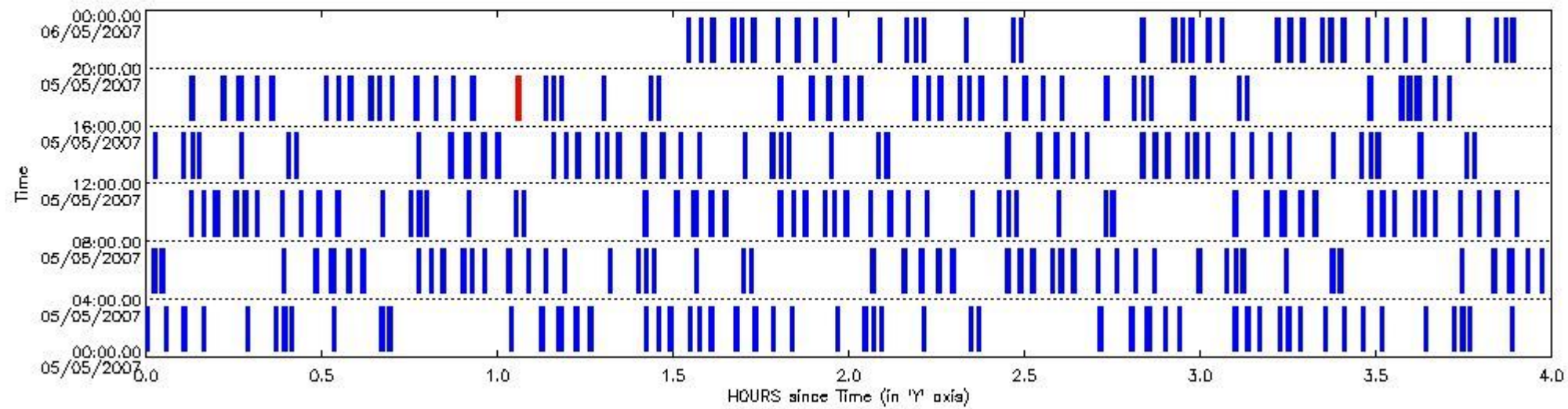
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

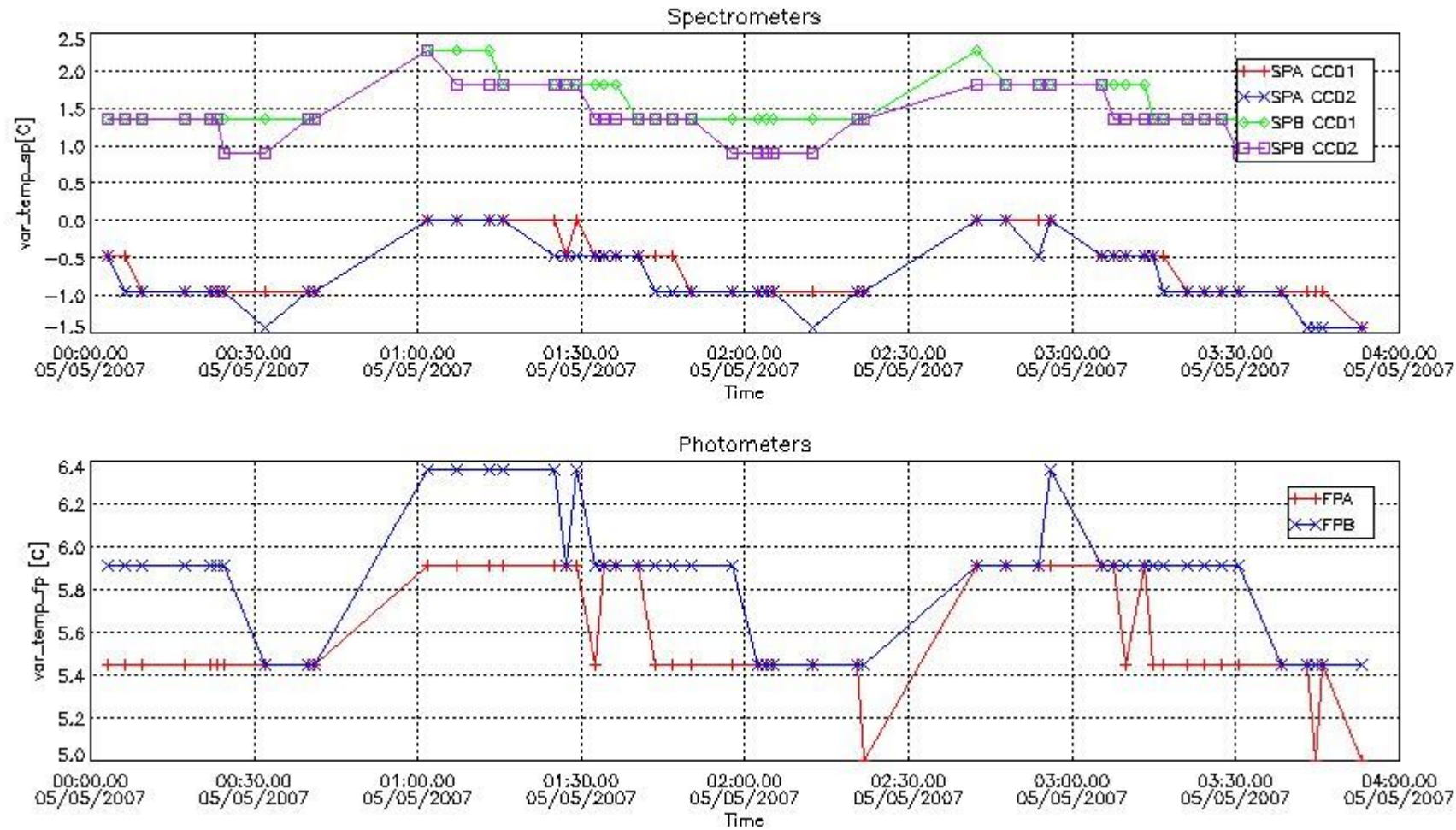
UTC start time	Star name	Star ID	Orbit
05-MAY-2007 17:02:59	12Alp2CVn	152	27077

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_1PNPDE20070505_000304_000000382057_00460_27067_8636.N1	05-MAY-2007 00:03:04	Bright	38.000	15	67Alp Vir	0.97600	28000.	76	27067	No
2	GOM_TRA_1PNPDE20070505_000611_000000362057_00460_27067_8637.N1	05-MAY-2007 00:06:11	Bright	36.000	121	29Gam Vir	2.7400	7200.0	72	27067	No
3	GOM_TRA_1PNPDE20070505_000925_000000352057_00460_27067_8638.N1	05-MAY-2007 00:09:25	Bright	35.000	138	47Eps Vir	2.8280	4700.0	70	27067	No
4	GOM_TRA_1PNPDE20070505_001706_000000352057_00460_27067_8639.N1	05-MAY-2007 00:17:06	Bright	34.500	152	12Alp2CVn	2.8900	11000.	69	27067	No
5	GOM_TRA_1PNPDE20070505_002150_000000372057_00460_27067_8640.N1	05-MAY-2007 00:21:50	Bright	37.000	55	79Zet UMa	2.0600	10200.	74	27067	No
6	GOM_TRA_1PNPDE20070505_002318_000000352057_00460_27067_8641.N1	05-MAY-2007 00:23:18	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	27067	No
7	GOM_TRA_1PNPDE20070505_002434_000000372057_00460_27067_8642.N1	05-MAY-2007 00:24:34	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	27067	No
8	GOM_TRA_1PNPDE20070505_003150_000000342057_00460_27067_8643.N1	05-MAY-2007 00:31:50	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	27067	No
9	GOM_TRA_1PNPDE20070505_003951_000000502057_00460_27067_8644.N1	05-MAY-2007 00:39:51	Bright	50.000	110	37Del Cas	2.6780	8900.0	100	27067	No
10	GOM_TRA_1PNPDE20070505_004110_000000522057_00460_27067_8645.N1	05-MAY-2007 00:41:10	Bright	52.000	68	18Alp Cas	2.2250	4500.0	104	27067	No

11	GOM_TRA_1PNPDE20070505_010155_000000422057_00460_27067_8646.N1	05-MAY-2007 01:01:55	Dark	41.500	52	16Bet Cet	2.0370	4500.0	83	27067	No
12	GOM_TRA_1PNPDE20070505_010715_000000502057_00460_27067_8765.N1	05-MAY-2007 01:07:15	Dark	49.500	18	24Alp PsA	1.1660	9700.0	99	27067	No
13	GOM_TRA_1PNPDE20070505_011304_000000402057_00460_27067_8766.N1	05-MAY-2007 01:13:04	Dark	39.500	31	Alp Gru	1.7340	15200.	79	27067	No
14	GOM_TRA_1PNPDE20070505_011530_000000392057_00461_27068_8767.N1	05-MAY-2007 01:15:30	Dark	38.500	148	Alp Tuc	2.8780	4100.0	77	27068	No
15	GOM_TRA_1PNPDE20070505_012457_000000482057_00461_27068_8768.N1	05-MAY-2007 01:24:57	Straylight	47.500	43	Alp TrA	1.9100	4250.0	95	27068	No
16	GOM_TRA_1PNPDE20070505_012709_000000392057_00461_27068_8769.N1	05-MAY-2007 01:27:09	Straylight	38.500	134	Bet TrA	2.8100	6600.0	77	27068	No
17	GOM_TRA_1PNPDE20070505_012907_000000402057_00461_27068_8770.N1	05-MAY-2007 01:29:07	Straylight	39.500	4	Alp1Cen	-0.010000	5800.0	79	27068	No
18	GOM_TRA_1PNPDE20070505_013235_000000392057_00461_27068_8771.N1	05-MAY-2007 01:32:35	Straylight	39.000	78	Alp Lup	2.3040	28000.	78	27068	No
19	GOM_TRA_1PNPDE20070505_013407_000000402057_00461_27068_8772.N1	05-MAY-2007 01:34:07	Straylight	39.500	81	Eta Cen	2.3560	28000.	79	27068	No
20	GOM_TRA_1PNPDE20070505_013609_000000442057_00461_27068_8773.N1	05-MAY-2007 01:36:09	Tw_i_and_stray	43.500	54	5The Cen	2.0550	4500.0	87	27068	No
21	GOM_TRA_1PNPDE20070505_014023_000000412057_00461_27068_8774.N1	05-MAY-2007 01:40:23	Bright	40.500	169	46Gam Hya	2.9910	4700.0	81	27068	No
22	GOM_TRA_1PNPDE20070505_014340_000000392057_00461_27068_8775.N1	05-MAY-2007 01:43:40	Bright	38.500	15	67Alp Vir	0.97600	28000.	77	27068	No
23	GOM_TRA_1PNPDE20070505_014647_000000352057_00461_27068_8776.N1	05-MAY-2007 01:46:47	Bright	35.000	121	29Gam Vir	2.7400	7200.0	70	27068	No
24	GOM_TRA_1PNPDE20070505_015001_000000352057_00461_27068_8777.N1	05-MAY-2007 01:50:01	Bright	35.000	138	47Eps Vir	2.8280	4700.0	70	27068	No
25	GOM_TRA_1PNPDE20070505_015742_000000352057_00461_27068_8778.N1	05-MAY-2007 01:57:42	Bright	34.500	152	12Alp2CVn	2.8900	11000.	69	27068	No
26	GOM_TRA_1PNPDE20070505_020226_000000372057_00461_27068_8779.N1	05-MAY-2007 02:02:26	Bright	36.500	55	79Zet UMa	2.0600	10200.	73	27068	No
27	GOM_TRA_1PNPDE20070505_020354_000000332057_00461_27068_8780.N1	05-MAY-2007 02:03:54	Bright	32.500	82	48Bet UMa	2.3650	10600.	65	27068	No
28	GOM_TRA_1PNPDE20070505_020510_000000372057_00461_27068_8781.N1	05-MAY-2007 02:05:10	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	27068	No
29	GOM_TRA_1PNPDE20070505_021226_000000322057_00461_27068_8782.N1	05-MAY-2007 02:12:26	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	27068	No
30	GOM_TRA_1PNPDE20070505_022027_000000342057_00461_27068_8901.N1	05-MAY-2007 02:20:27	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	27068	No
31	GOM_TRA_1PNPDE20070505_022146_000000342057_00461_27068_8902.N1	05-MAY-2007 02:21:46	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	27068	No
32	GOM_TRA_1PNPDE20070505_024231_000000412057_00461_27068_8903.N1	05-MAY-2007 02:42:31	Dark	41.000	52	16Bet Cet	2.0370	4500.0	82	27068	No
33	GOM_TRA_1PNPDE20070505_024751_000000462057_00461_27068_8904.N1	05-MAY-2007 02:47:51	Dark	46.000	18	24Alp PsA	1.1660	9700.0	92	27068	No
34	GOM_TRA_1PNPDE20070505_025340_000000402057_00461_27068_8905.N1	05-MAY-2007 02:53:40	Dark	40.000	31	Alp Gru	1.7340	15200.	80	27068	No
35	GOM_TRA_1PNPDE20070505_025607_000000382057_00462_27069_8906.N1	05-MAY-2007 02:56:07	Dark	38.000	148	Alp Tuc	2.8780	4100.0	76	27069	No
36	GOM_TRA_1PNPDE20070505_030533_000000402057_00462_27069_8907.N1	05-MAY-2007 03:05:33	Straylight	40.000	43	Alp TrA	1.9100	4250.0	80	27069	No
37	GOM_TRA_1PNPDE20070505_030745_000000382057_00462_27069_8908.N1	05-MAY-2007 03:07:45	Straylight	37.500	134	Bet TrA	2.8100	6600.0	75	27069	No
38	GOM_TRA_1PNPDE20070505_030943_000000422057_00462_27069_8909.N1	05-MAY-2007 03:09:43	Straylight	42.000	4	Alp1Cen	-0.010000	5800.0	84	27069	No
39	GOM_TRA_1PNPDE20070505_031311_000000402057_00462_27069_8910.N1	05-MAY-2007 03:13:11	Straylight	39.500	78	Alp Lup	2.3040	28000.	79	27069	No
40	GOM_TRA_1PNPDE20070505_031443_000000422057_00462_27069_8911.N1	05-MAY-2007 03:14:43	Straylight	41.500	81	Eta Cen	2.3560	28000.	83	27069	No
41	GOM_TRA_1PNPDE20070505_031645_000000422057_00462_27069_8912.N1	05-MAY-2007 03:16:45	Tw_i_and_stray	42.000	54	5The Cen	2.0550	4500.0	84	27069	No
42	GOM_TRA_1PNPDE20070505_032059_000000392057_00462_27069_8913.N1	05-MAY-2007 03:20:59	Bright	38.500	169	46Gam Hya	2.9910	4700.0	77	27069	No
43	GOM_TRA_1PNPDE20070505_032416_000000382057_00462_27069_8914.N1	05-MAY-2007 03:24:16	Bright	38.000	15	67Alp Vir	0.97600	28000.	76	27069	No
44	GOM_TRA_1PNPDE20070505_032723_000000352057_00462_27069_8915.N1	05-MAY-2007 03:27:23	Bright	35.000	121	29Gam Vir	2.7400	7200.0	70	27069	No
45	GOM_TRA_1PNPDE20070505_033037_000000362057_00462_27069_8916.N1	05-MAY-2007 03:30:37	Bright	35.500	138	47Eps Vir	2.8280	4700.0	71	27069	No
46	GOM_TRA_1PNPDE20070505_033818_000000342057_00462_27069_8917.N1	05-MAY-2007 03:38:18	Bright	33.500	152	12Alp2CVn	2.8900	11000.	67	27069	No
47	GOM_TRA_1PNPDE20070505_034302_000000362057_00462_27069_8918.N1	05-MAY-2007 03:43:02	Bright	36.000	55	79Zet UMa	2.0600	10200.	72	27069	No
48	GOM_TRA_1PNPDE20070505_034430_000000362057_00462_27069_8919.N1	05-MAY-2007 03:44:30	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	27069	No
49	GOM_TRA_1PNPDE20070505_034547_000000362057_00462_27069_8920.N1	05-MAY-2007 03:45:47	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	27069	No
50	GOM_TRA_1PNPDE20070505_035302_000000352057_00462_27069_8921.N1	05-MAY-2007 03:53:02	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	27069	No

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



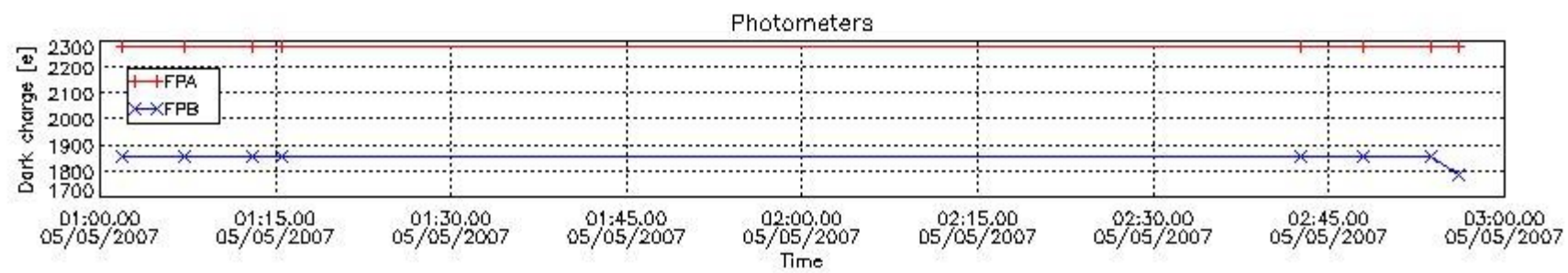
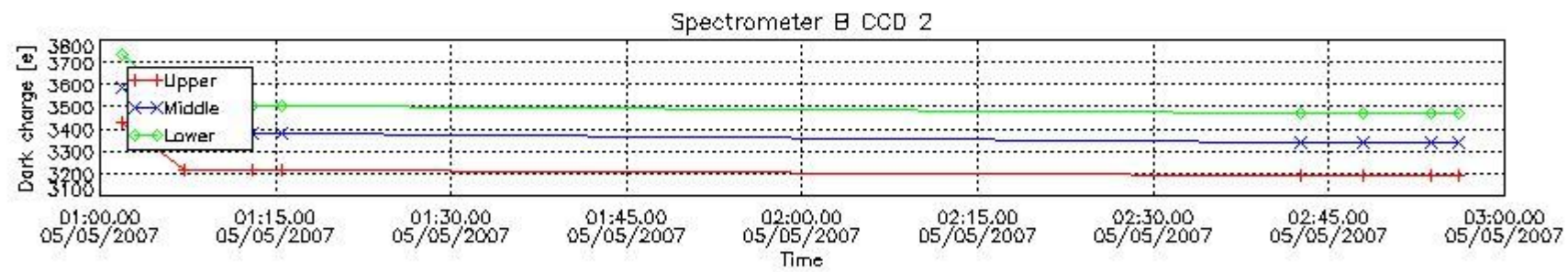
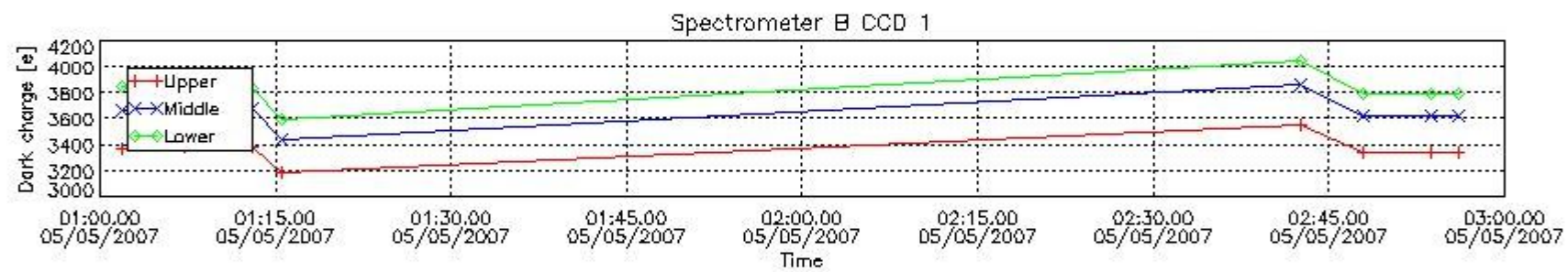
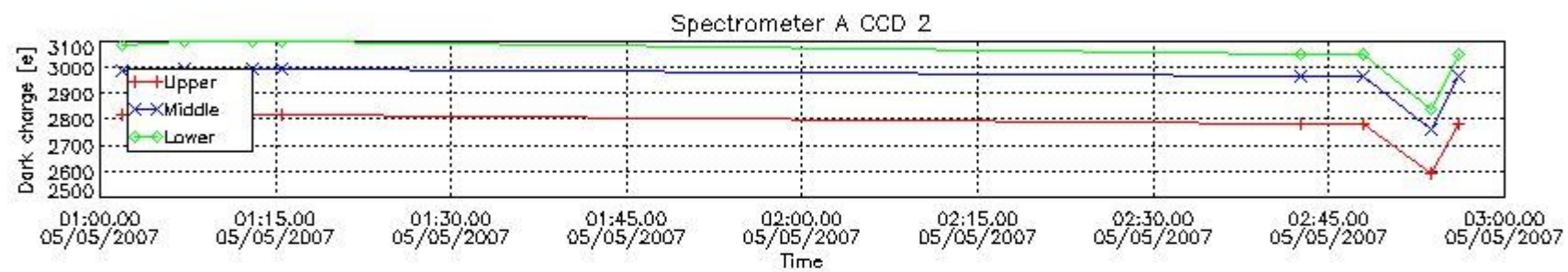
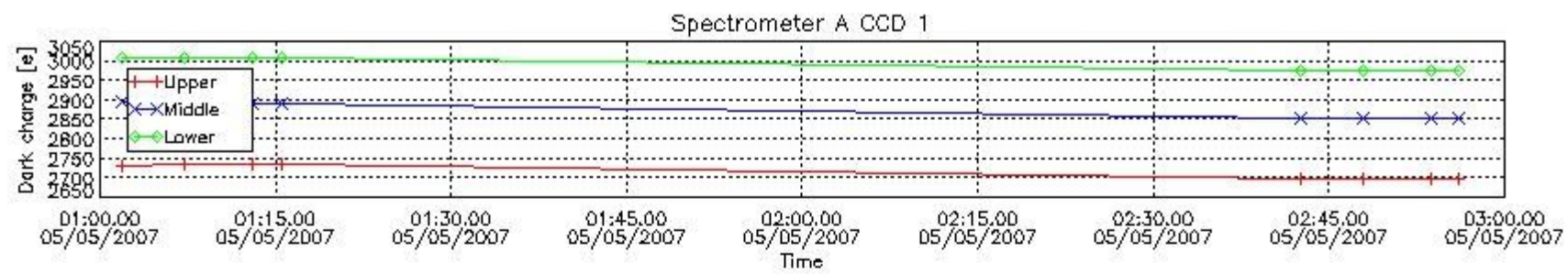
4. Overview of dark signal processing per product

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

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

4.1 All products used the DSA observation for the DC computation

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



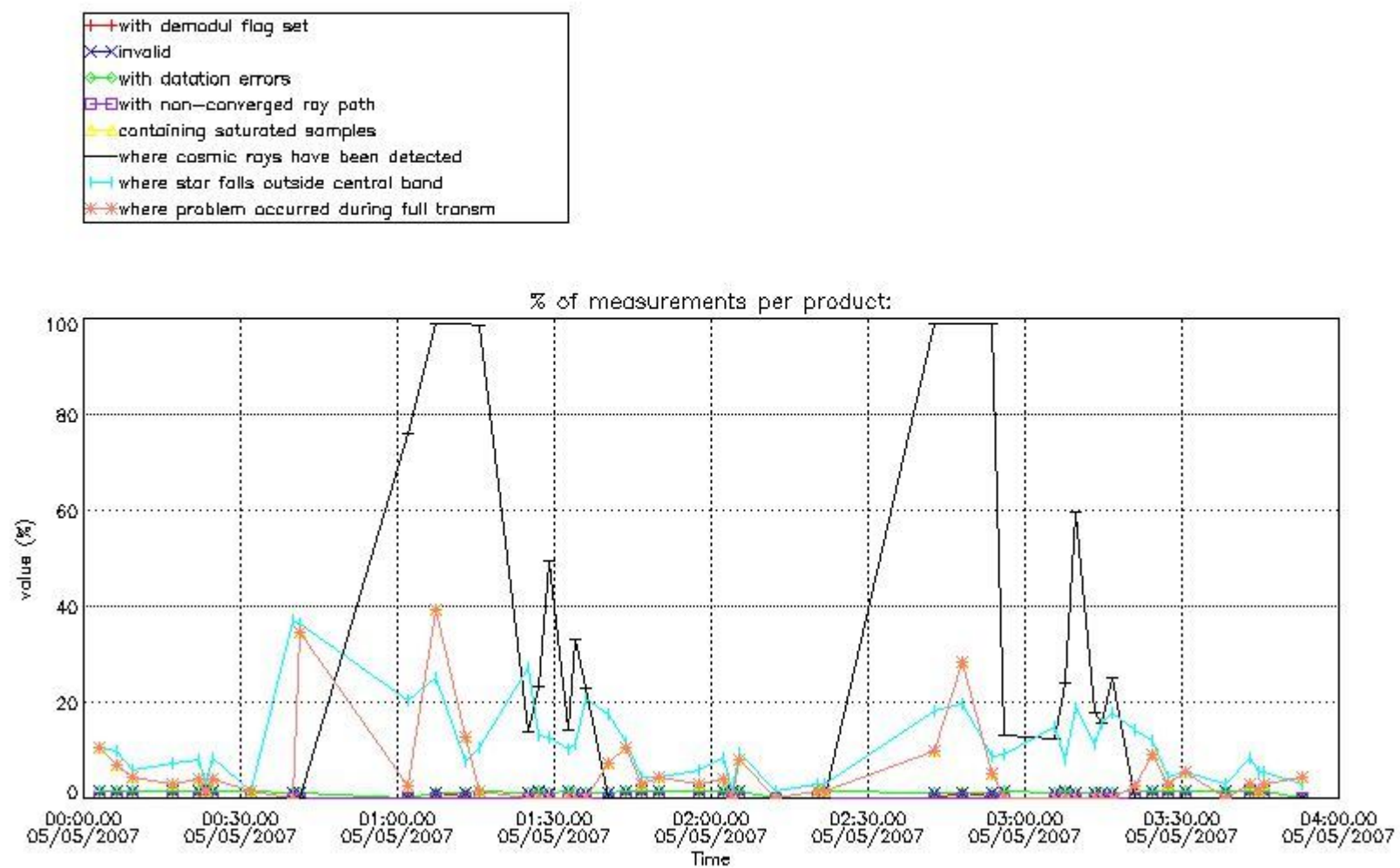
5. Demodulation flag and quality information monitoring

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

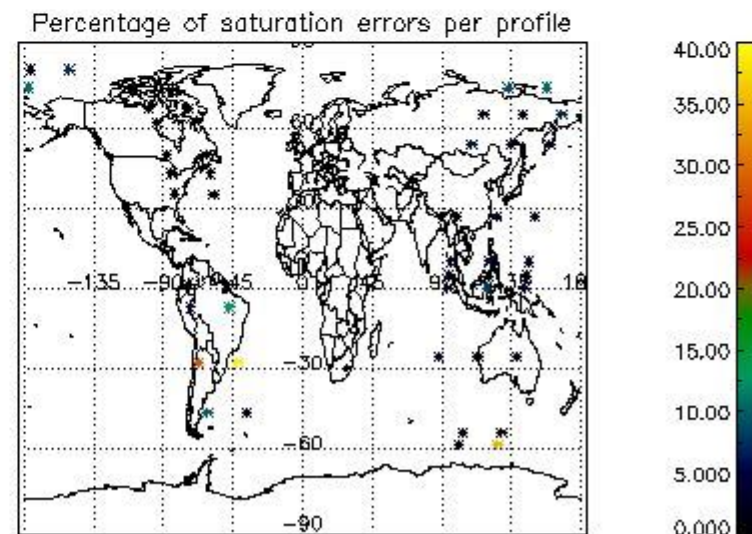
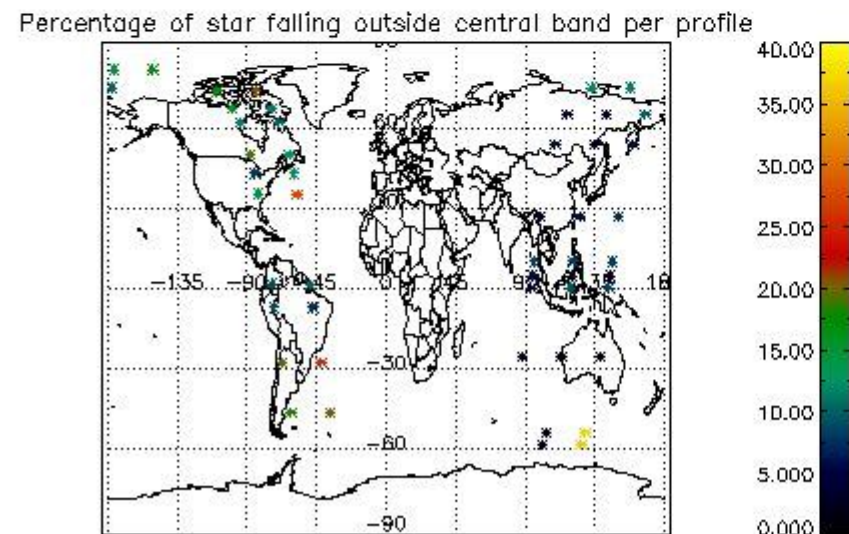
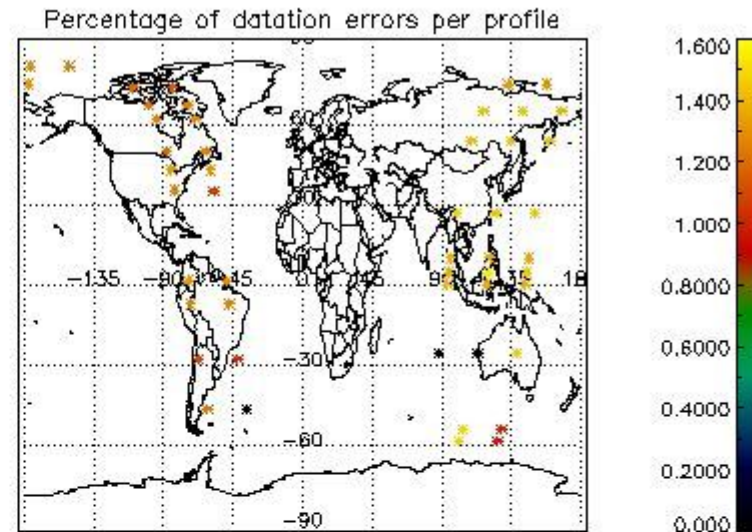
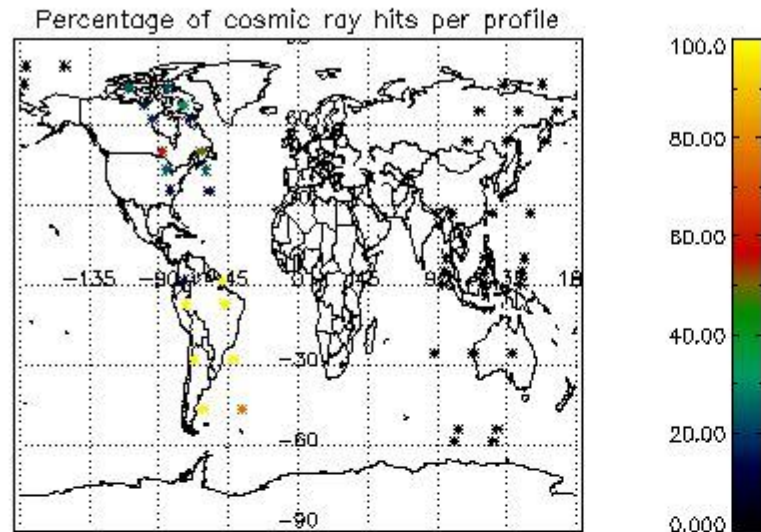
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.0000 %
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)



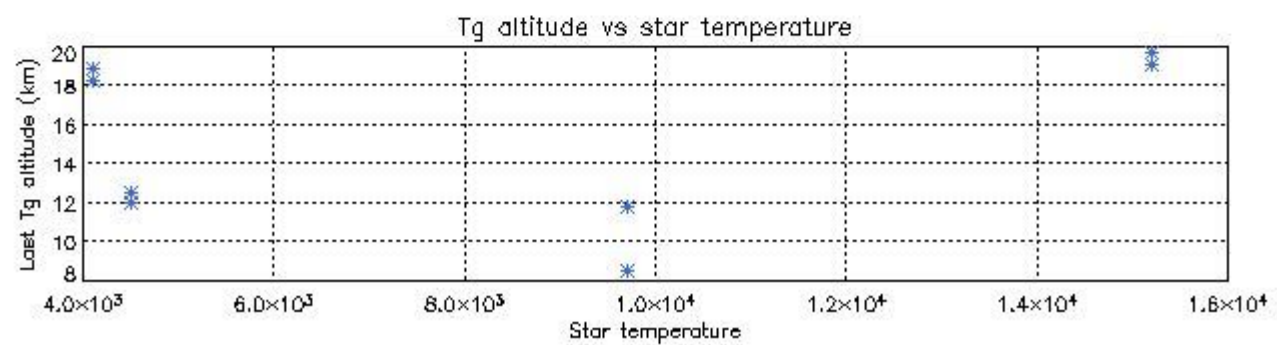
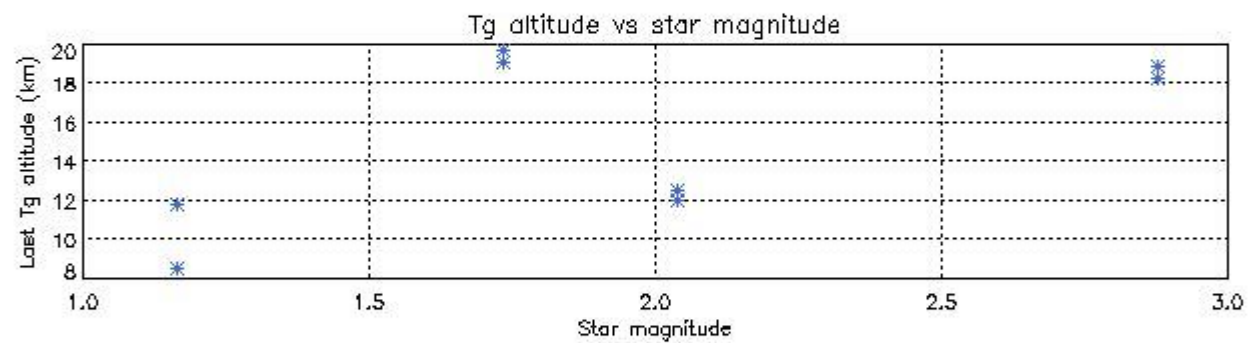
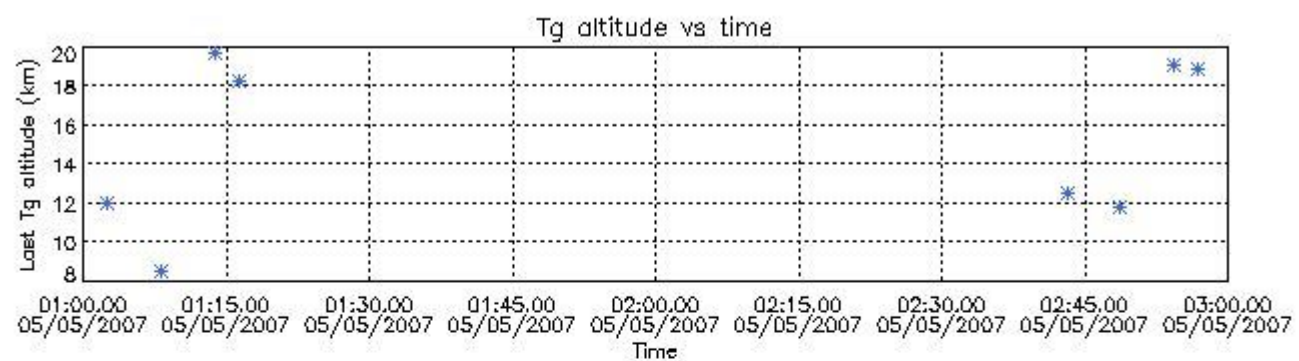
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.093	20.390	NaN
St. deviation:	4.3219	5.7128	NaN
Maximum:	19.680	29.868	NaN
Minimum:	8.5483	3.8291	NaN
Number of data:	8.0000	30.000	NaN

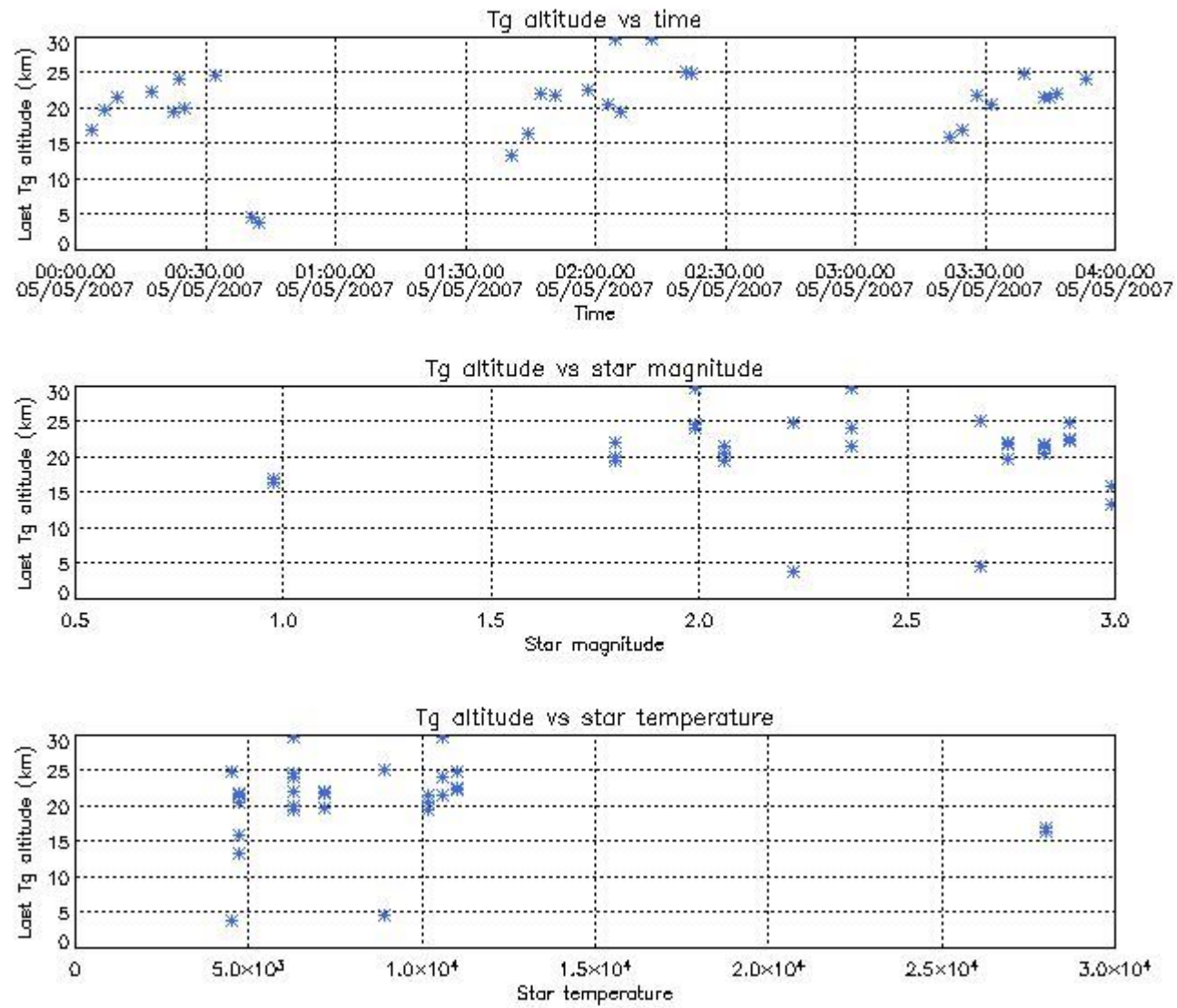
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

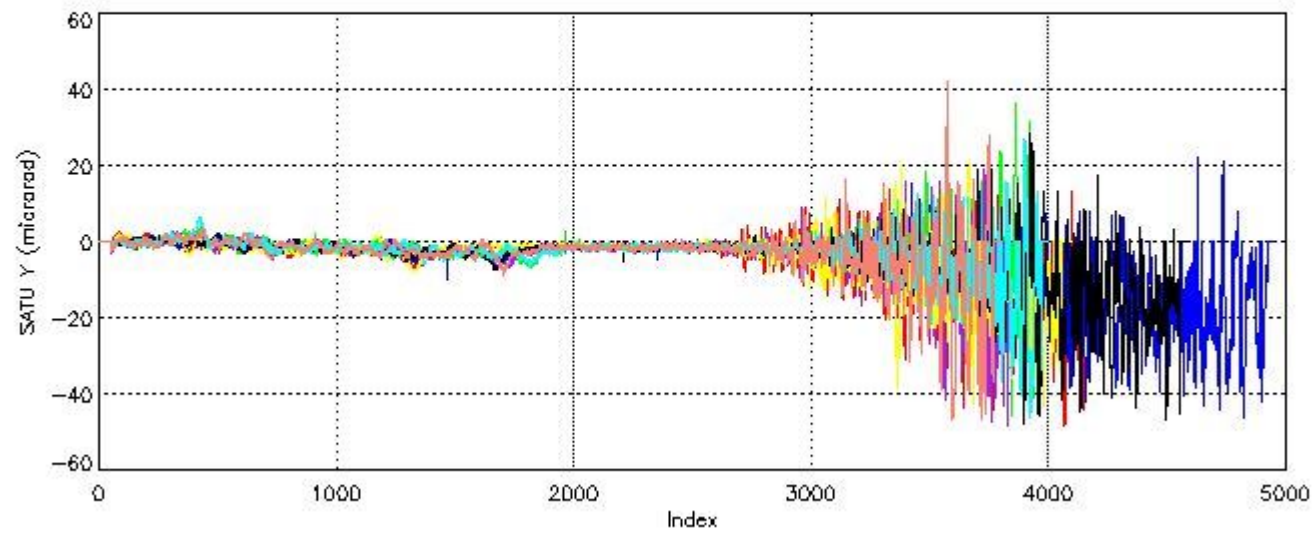
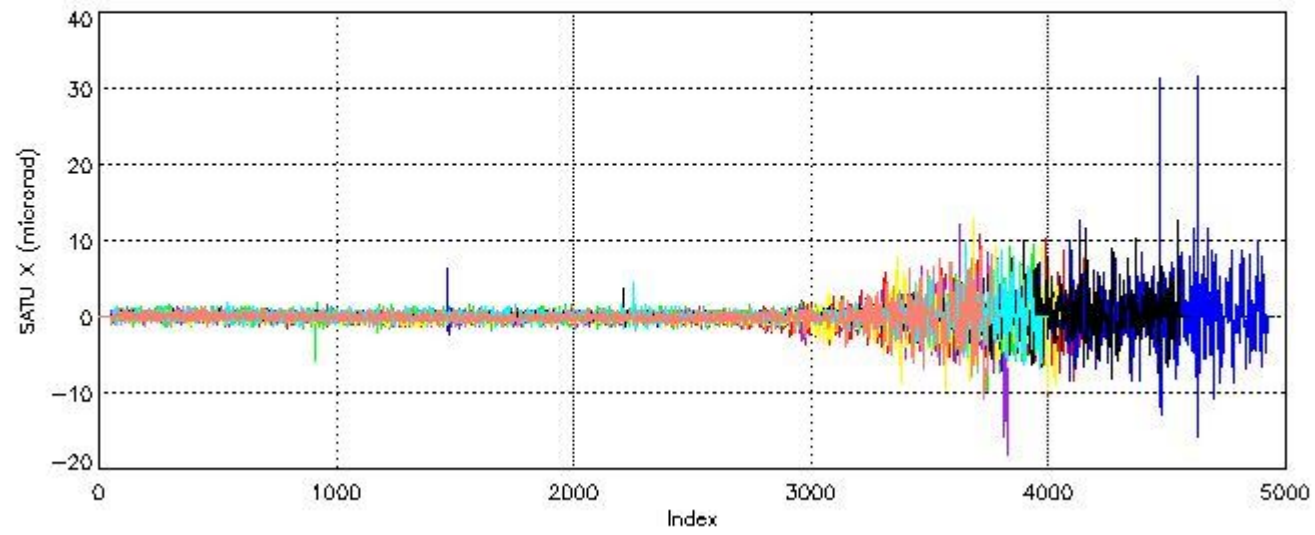


7. Star Acquisition and Tracking Unit (SATU)

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:	0.0062333	-0.45822	0.040214	-0.33569
St. deviation:	0.37880	1.2706	0.80329	1.4691
Maximum:	1.9000	6.5000	5.6000	5.4000
Minimum:	-5.9000	-4.9000	-5.1000	-7.7000

Number of data:	7250.0	7250.0	24850.	24850.
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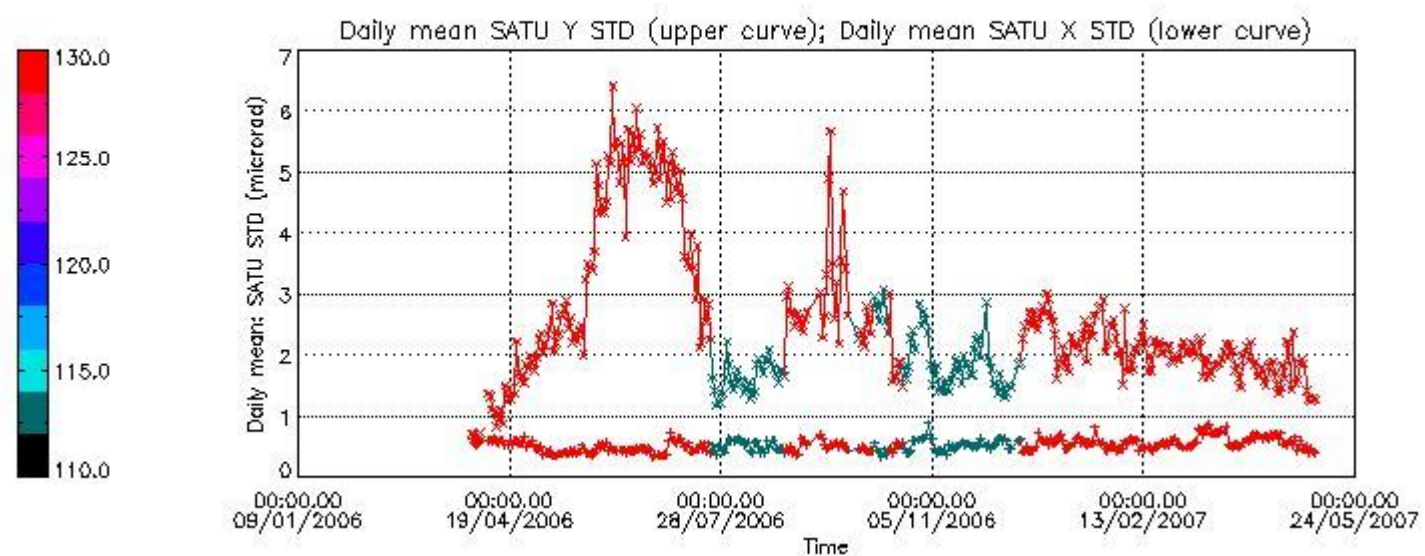
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

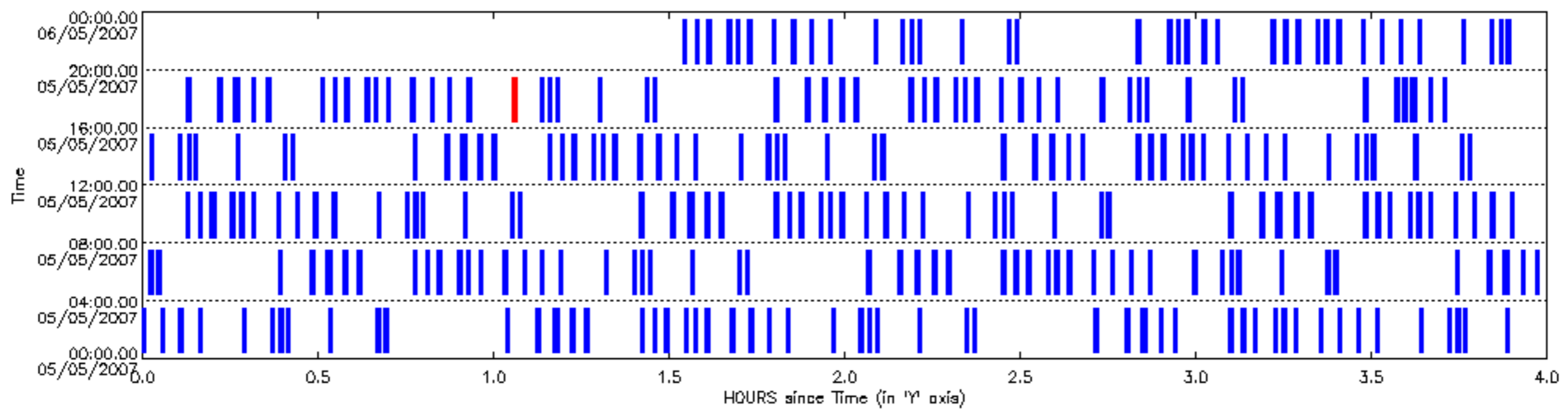
Lower curve: STD of SATU X axis

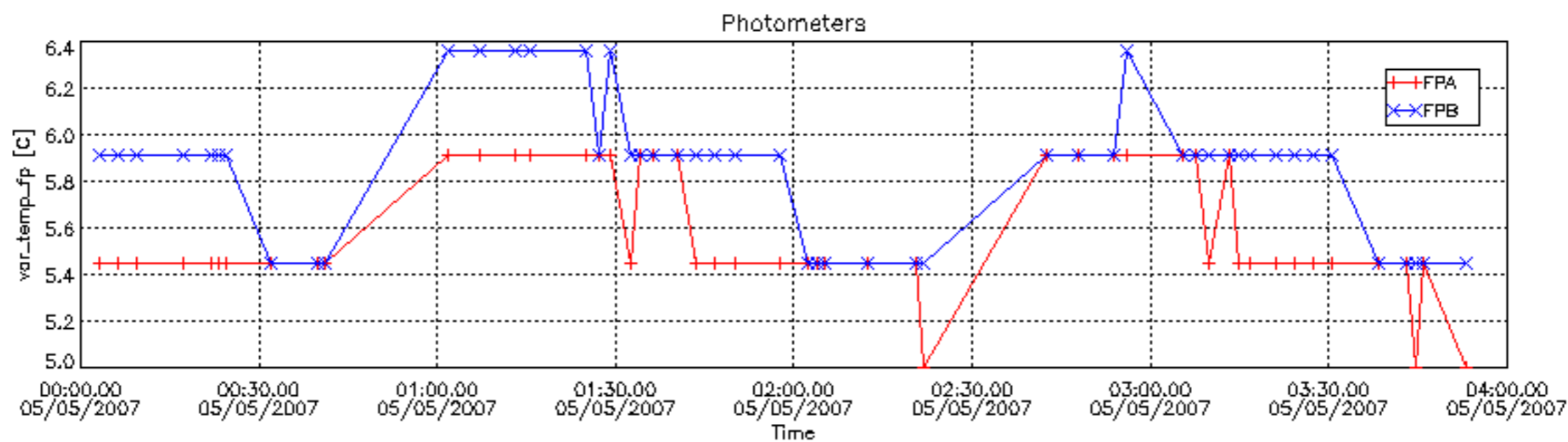
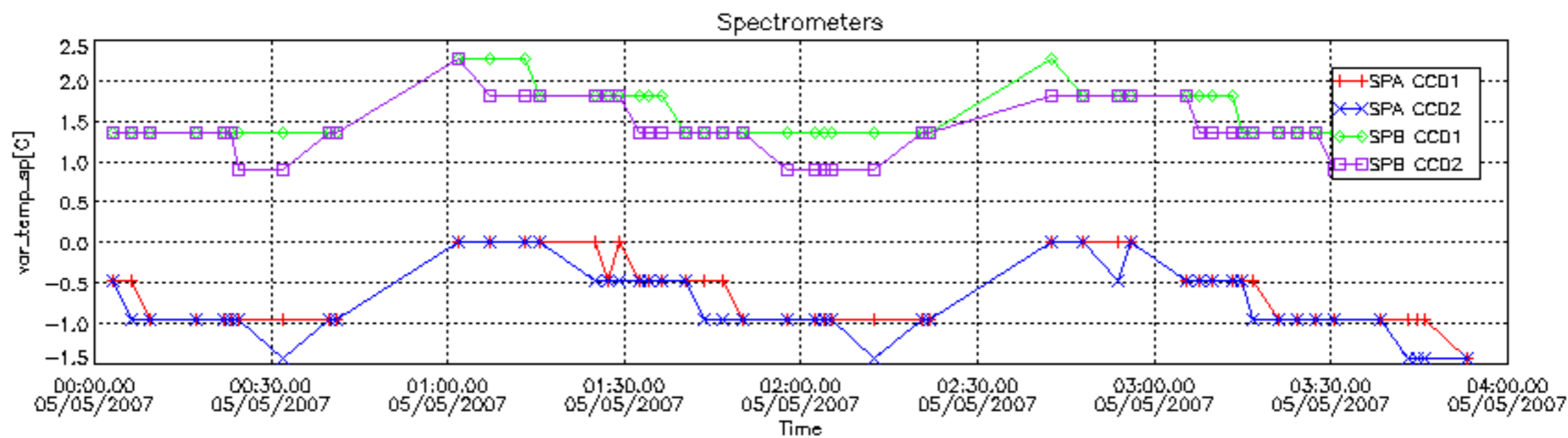


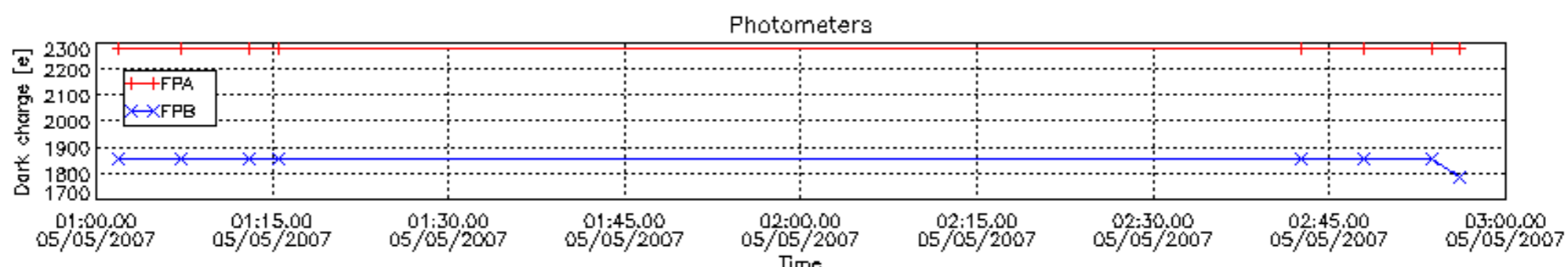
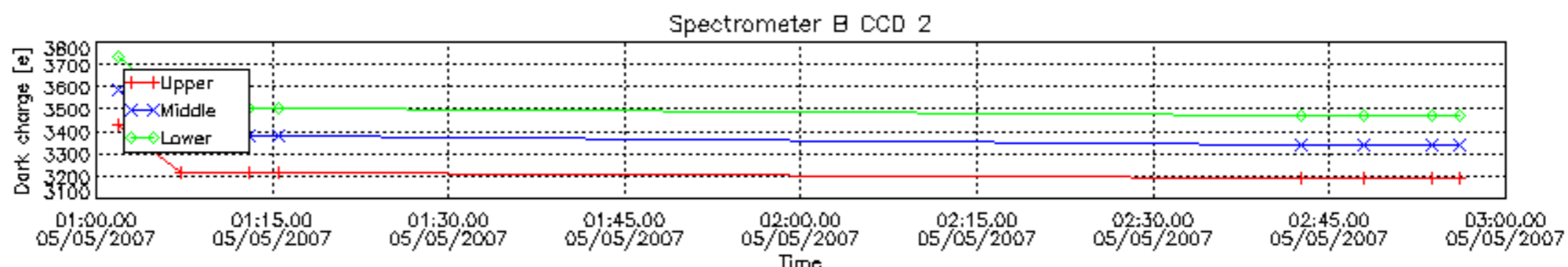
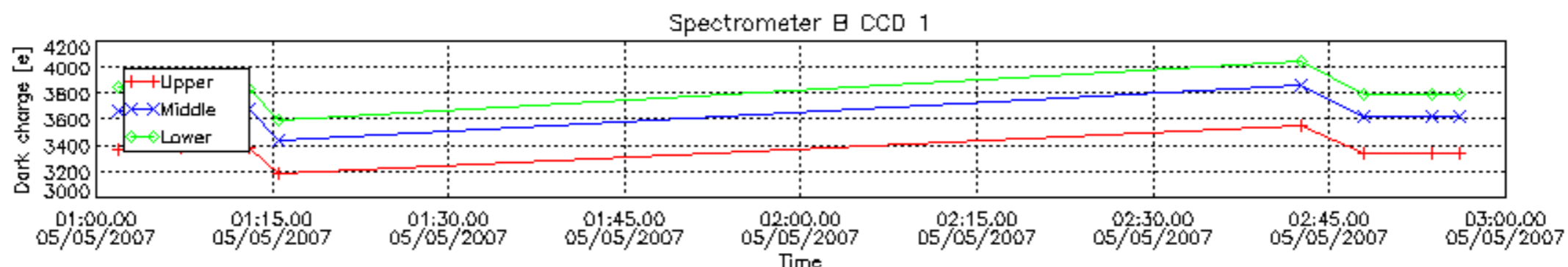
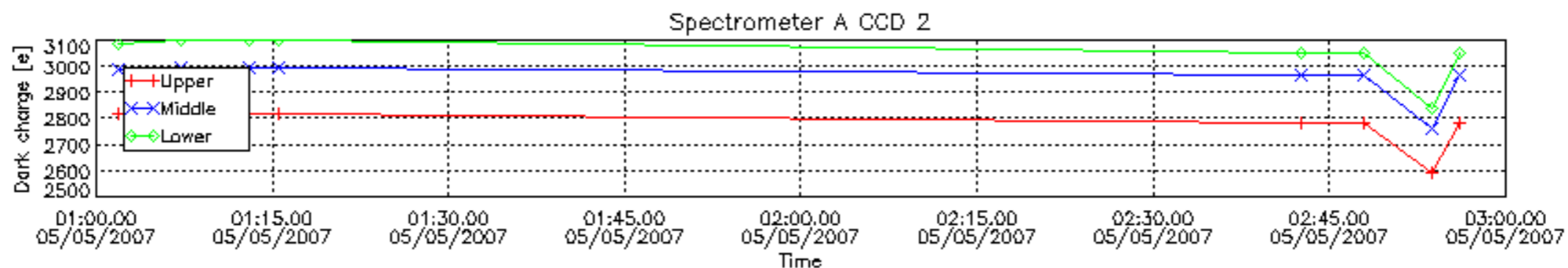
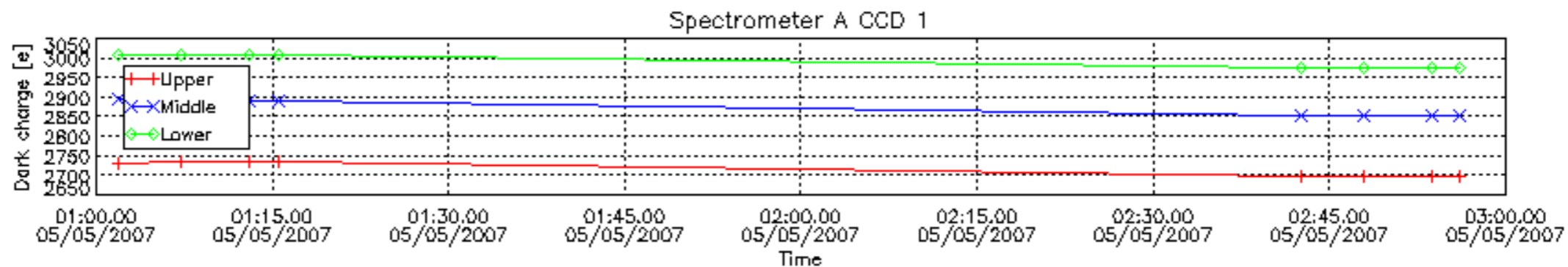
8. Auxiliary Data Files used for the production reported in section 2.4

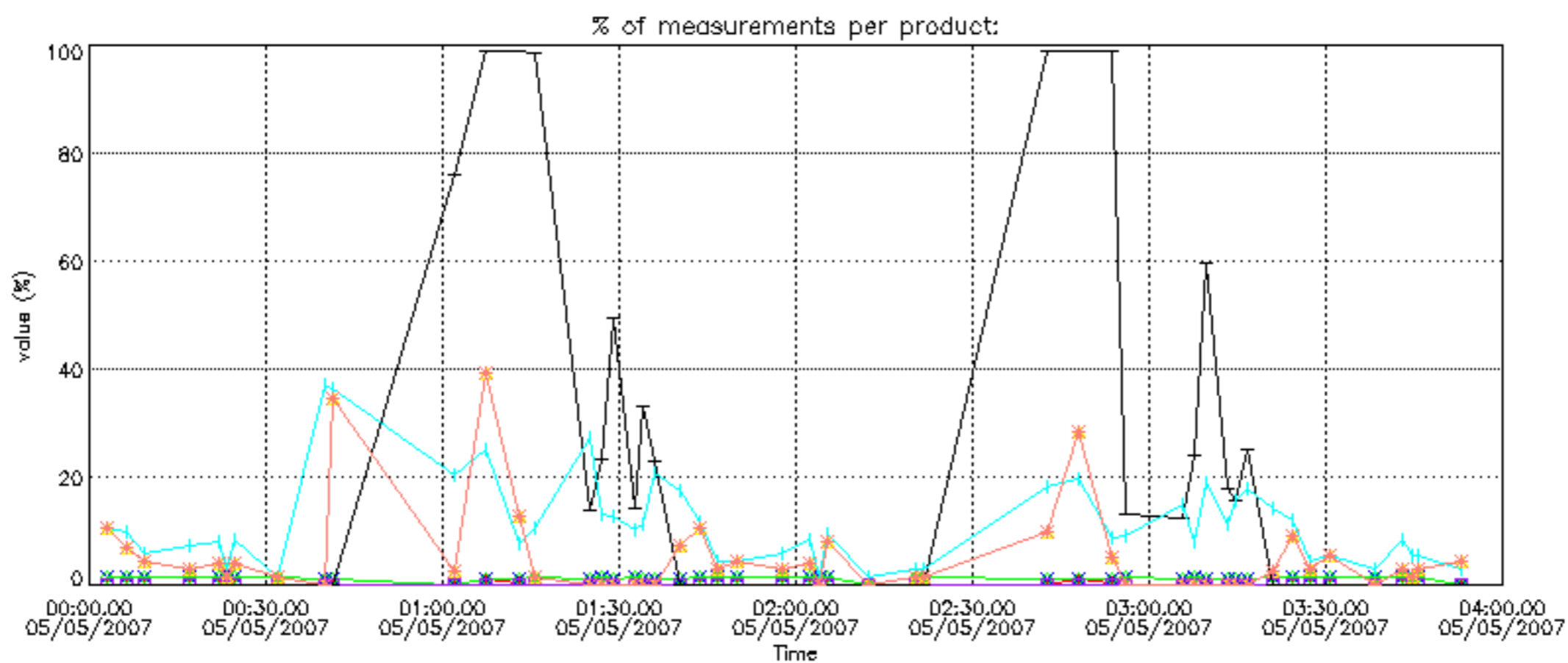
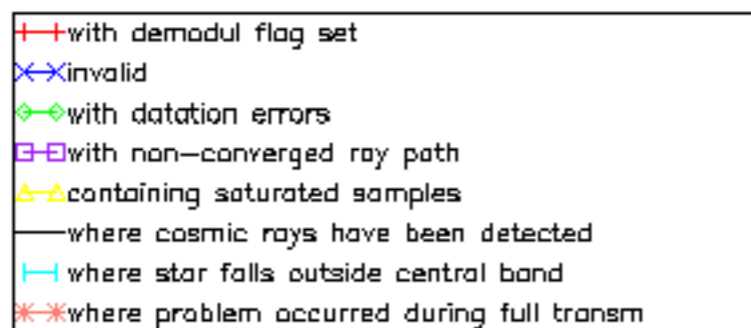
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	05-MAY-2007 00:03:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070503_074756_20070502_000000_20100101_000000	1	05-MAY-2007 00:03:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	05-MAY-2007 00:03:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-MAY-2007 00:03:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	05-MAY-2007 00:03:04
ECMWF_FILE	AUX_ECF_AXNECM20070504_062112_20070504_210000_20070505_090000	1	05-MAY-2007 00:03:04
OPTIONAL_ECMWF_FILE	MISSING	1	05-MAY-2007 00:03:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070504_213550_000060572057_00458_27065_3417.N1	1	05-MAY-2007 00:03:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070504_231647_000060572057_00459_27066_3418.N1	12	05-MAY-2007 01:07:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070505_005744_000041442057_00460_27067_3419.N1	30	05-MAY-2007 02:20:27

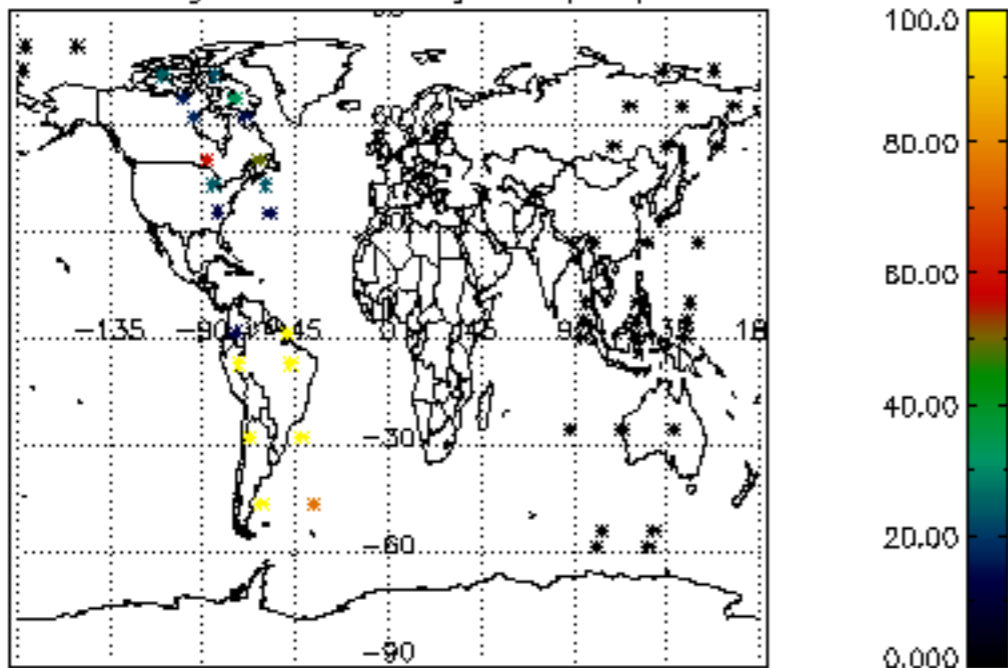




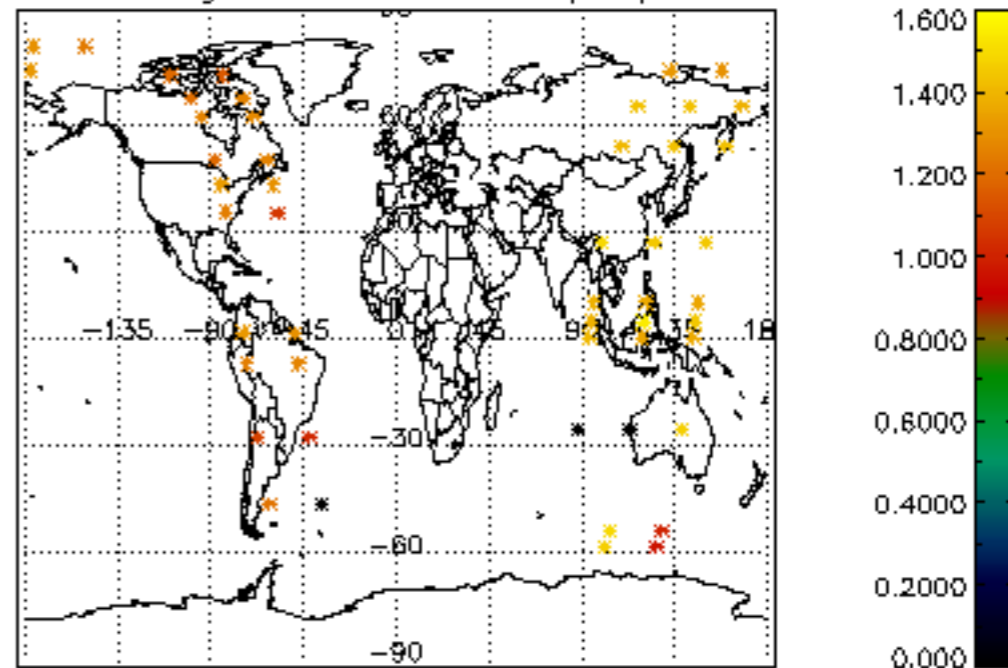




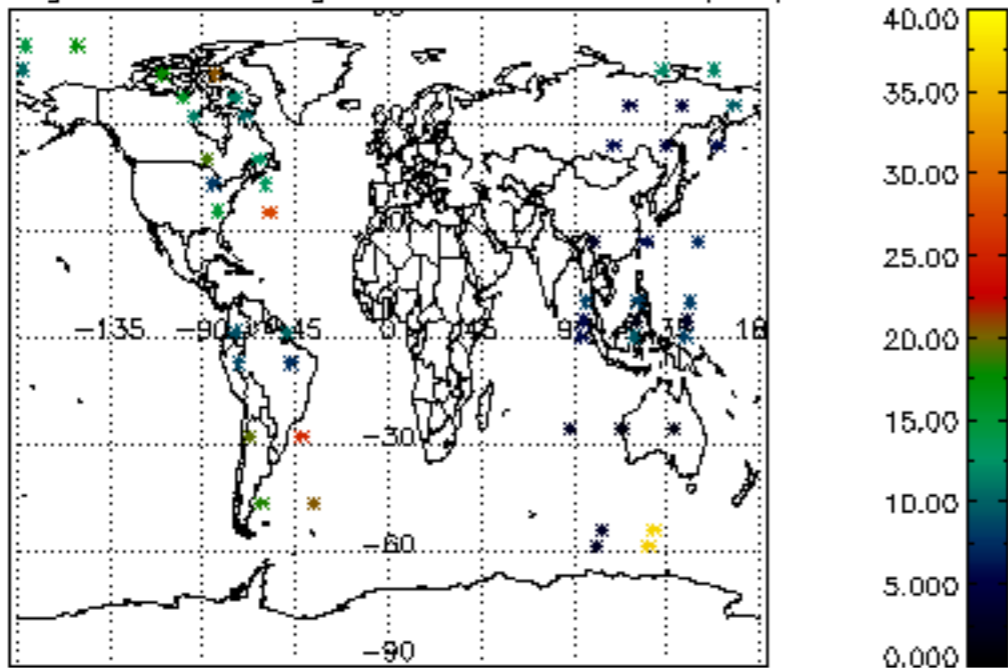
Percentage of cosmic ray hits per profile



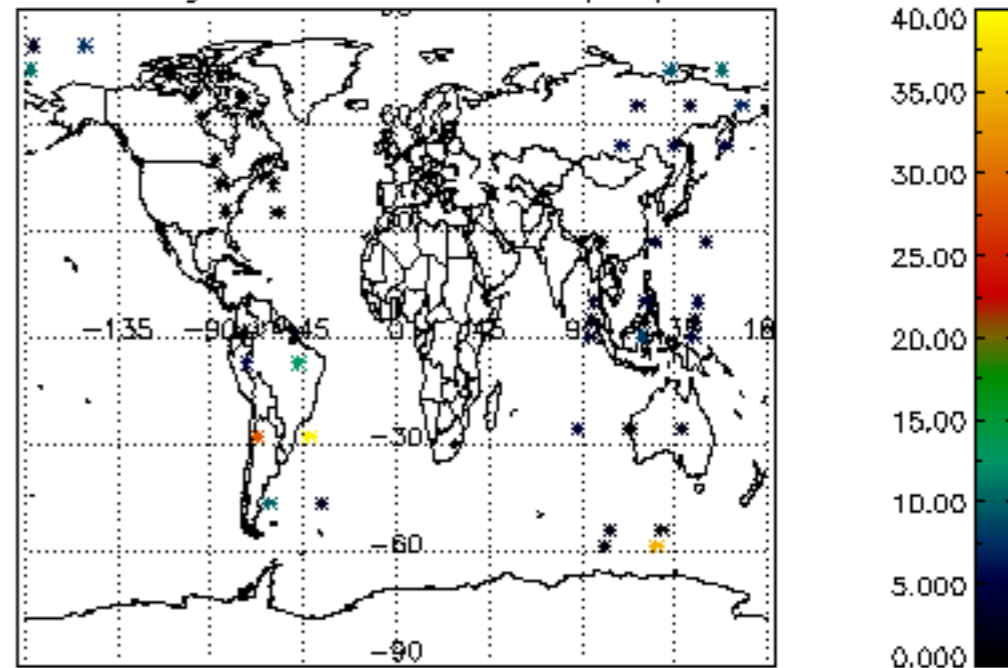
Percentage of datation errors per profile



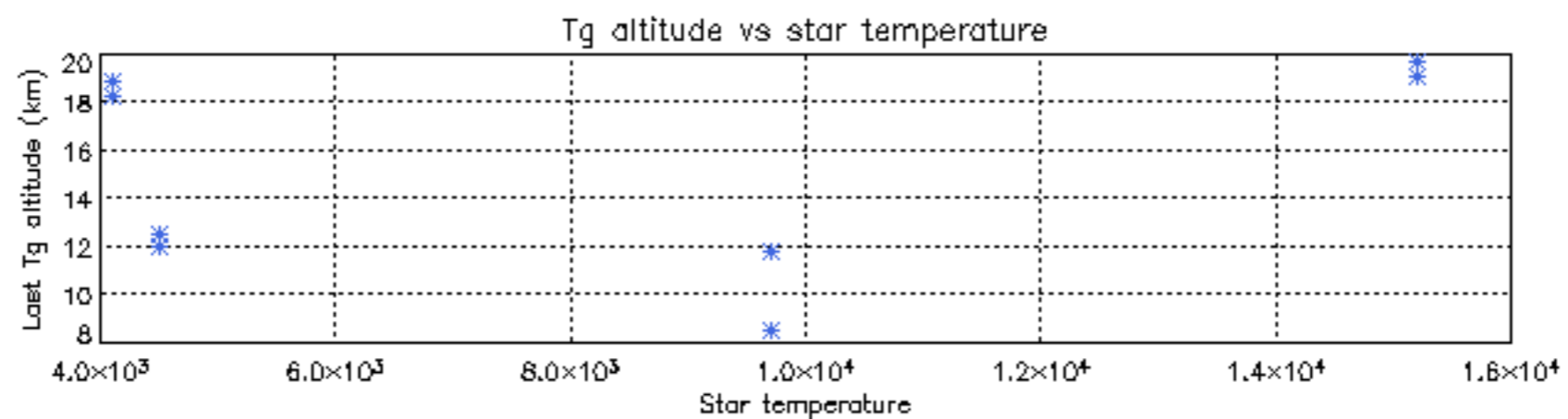
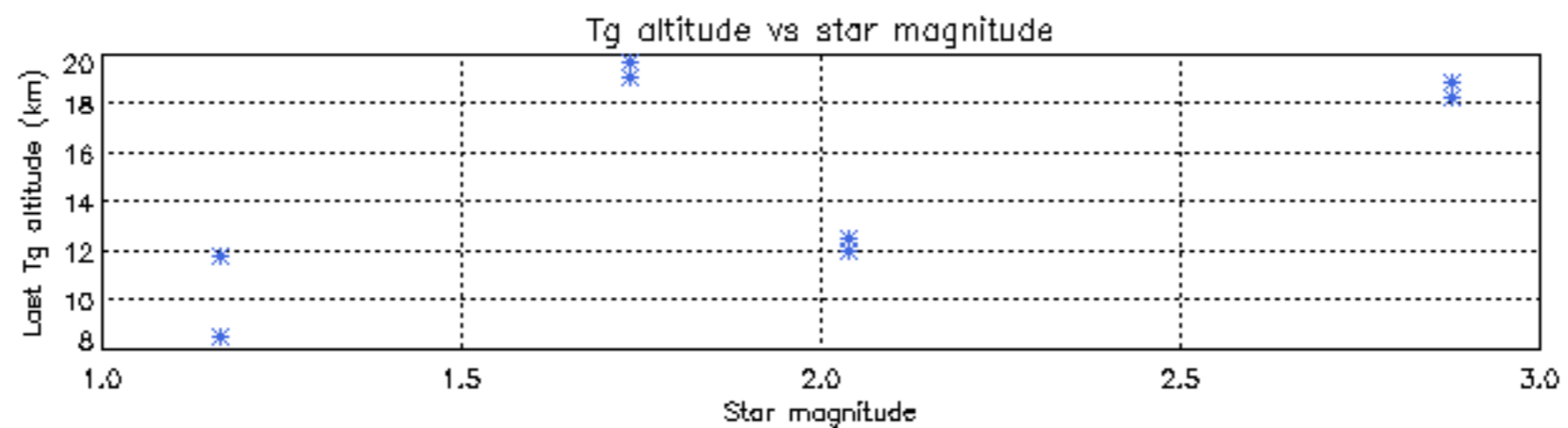
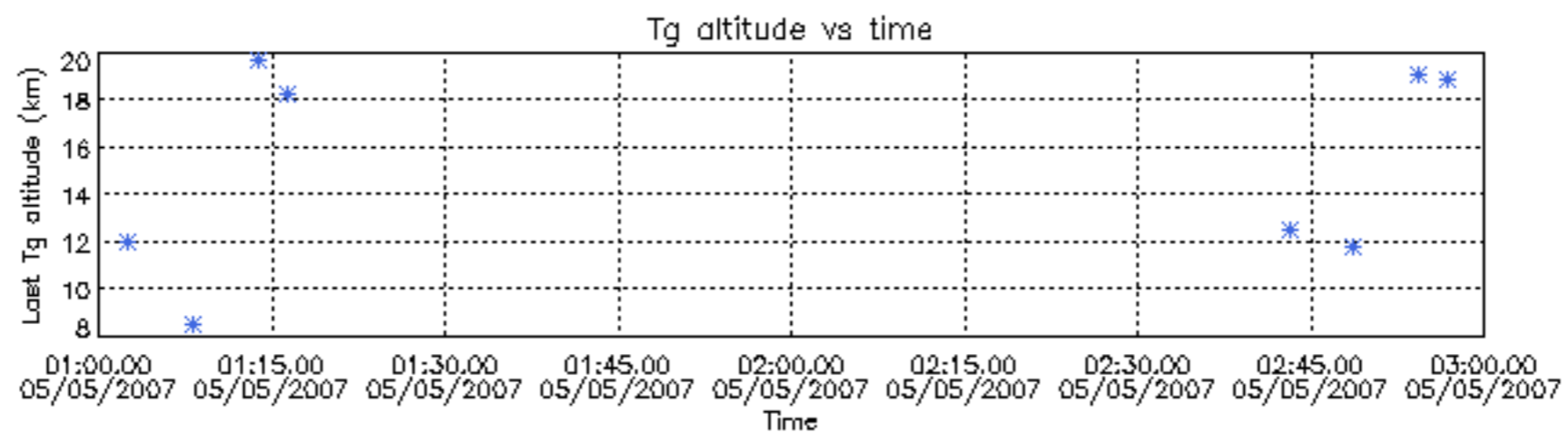
Percentage of star falling outside central band per profile



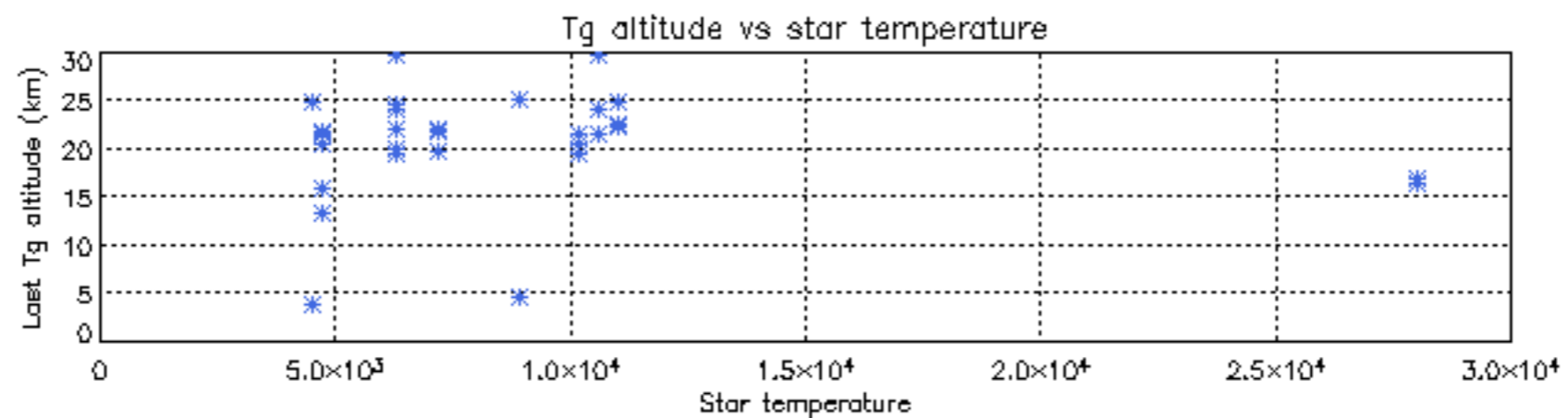
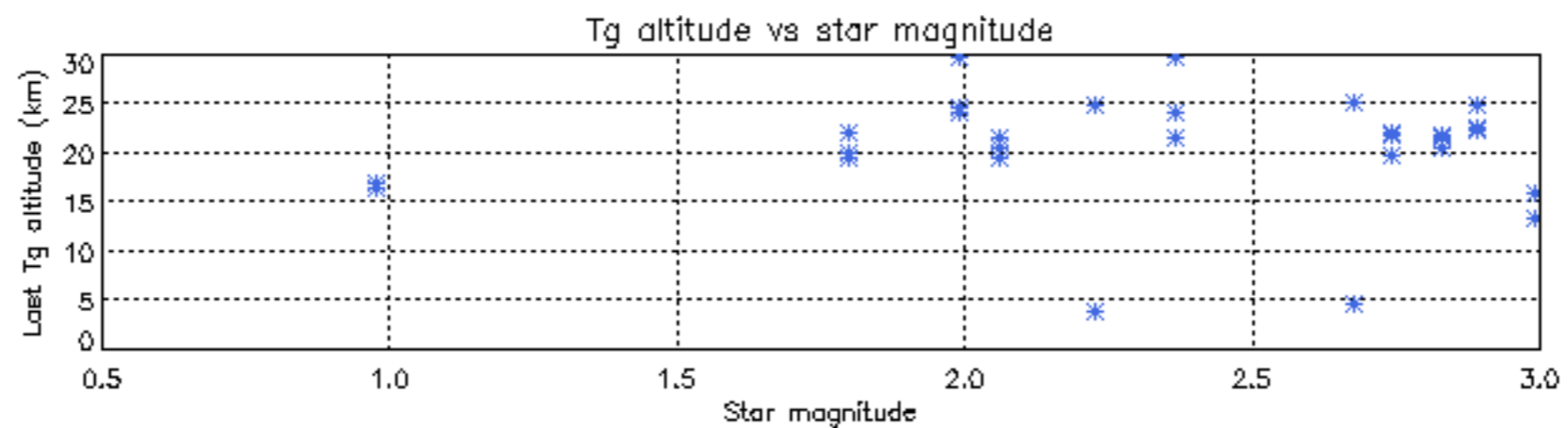
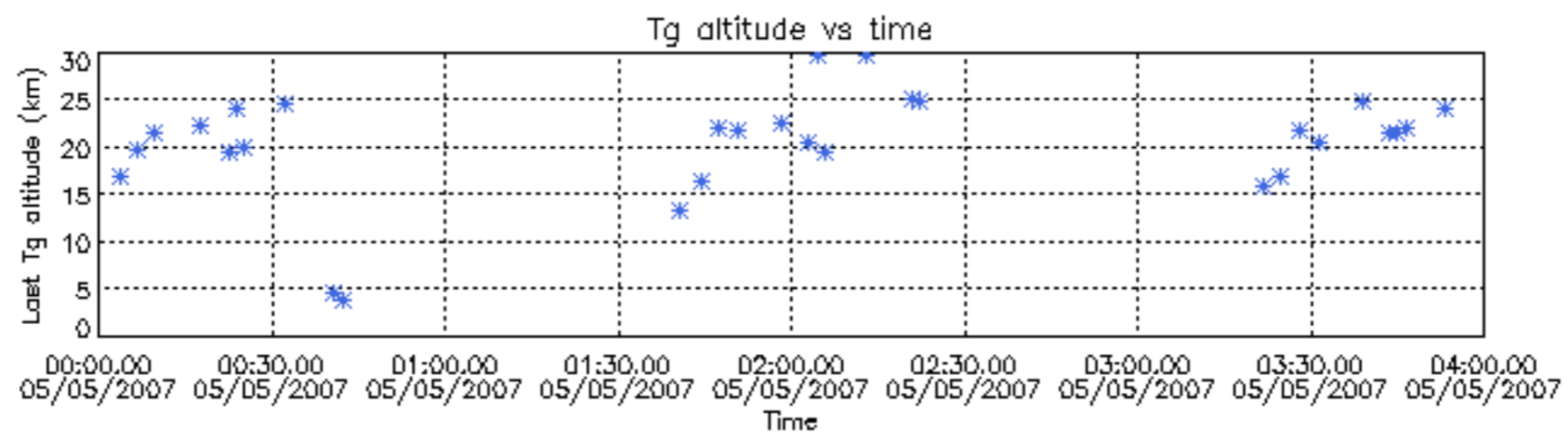
Percentage of saturation errors per profile

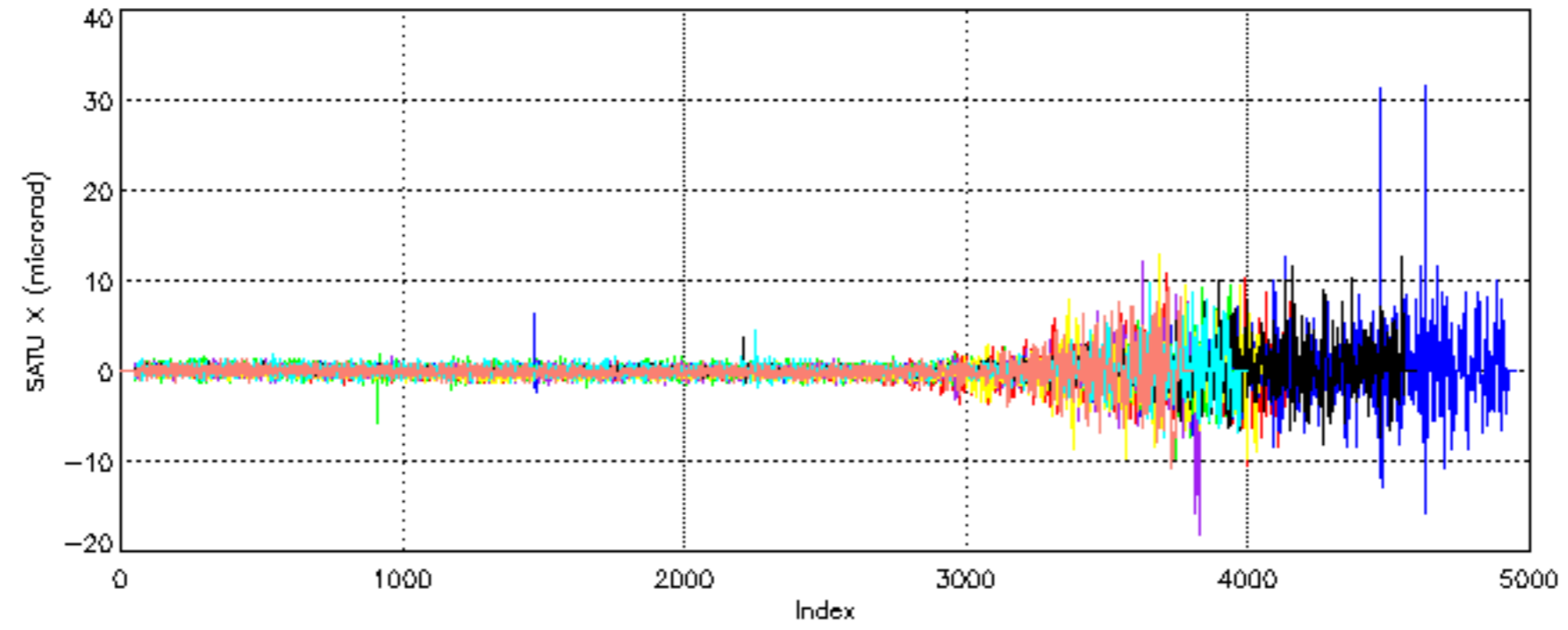


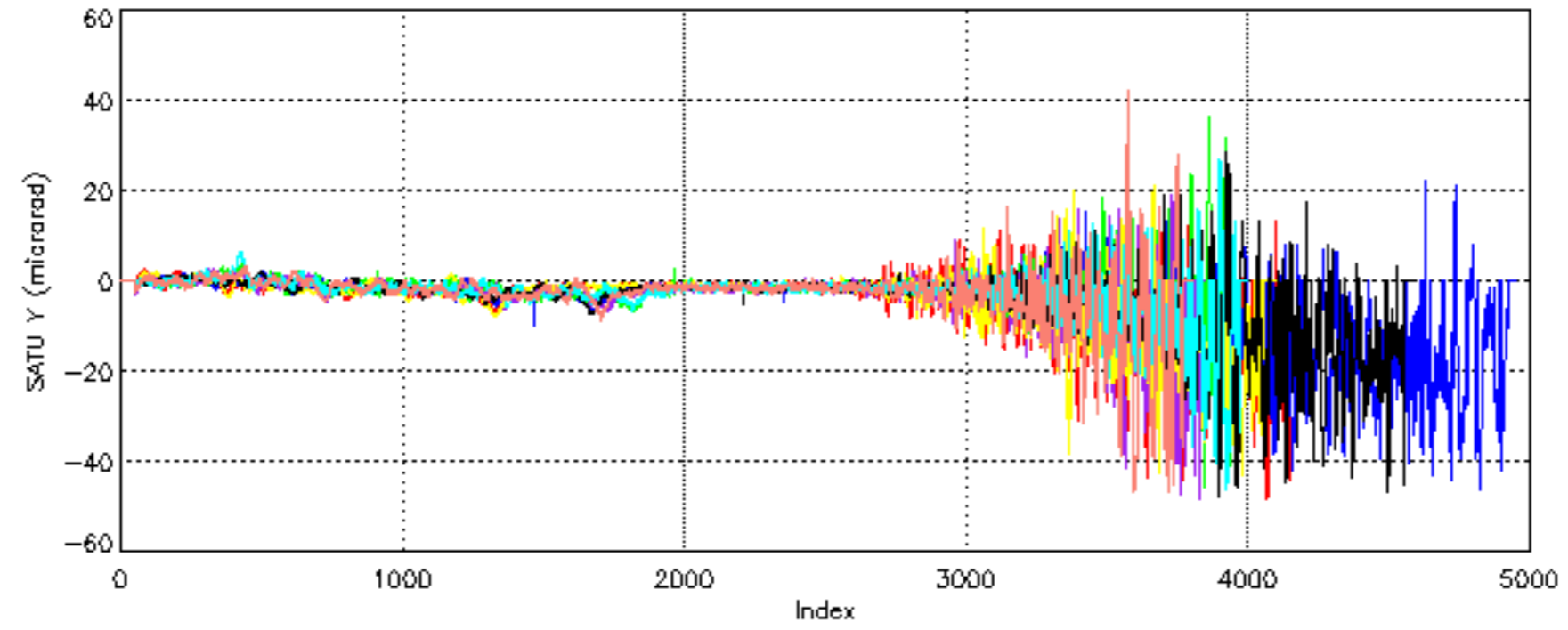
Tangent altitude at which the star is lost

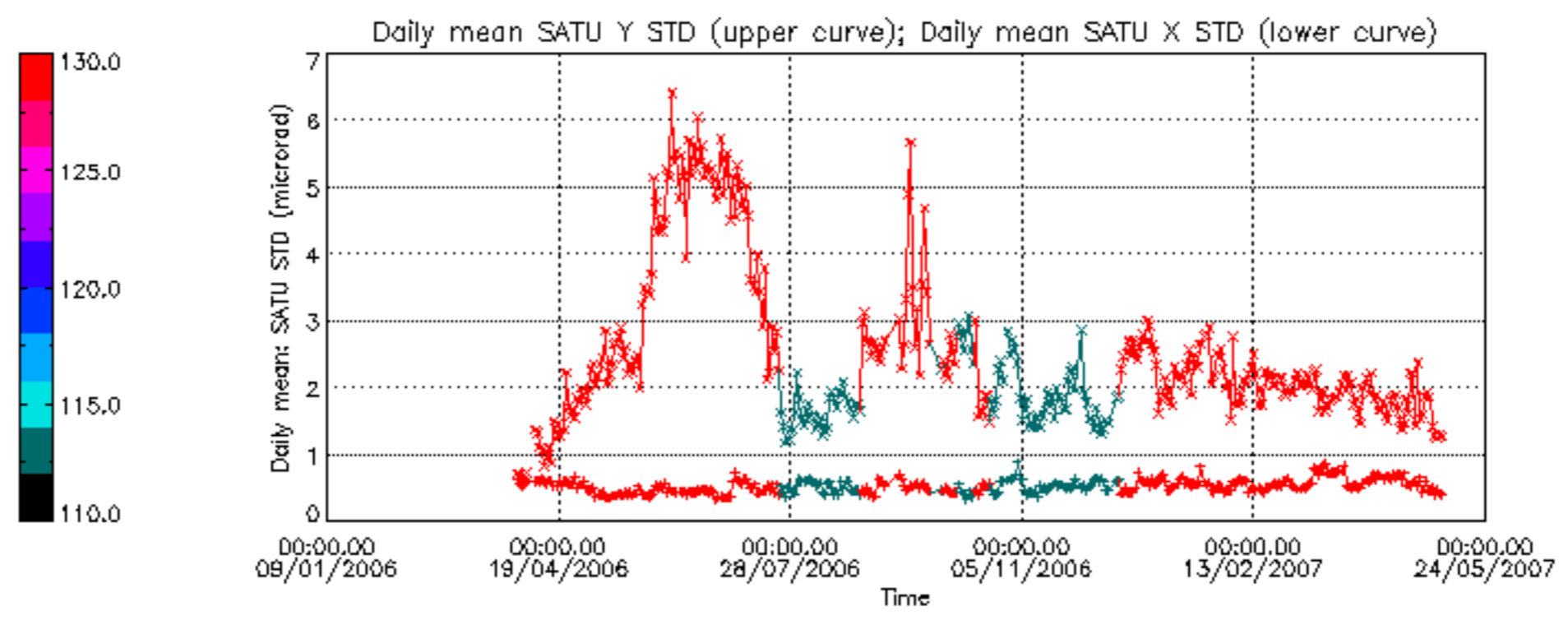


Tangent altitude at which the star is lost









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 3; 7.7; 01-MAY-2007 01:41:01; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;27011
 4; 177.8; 01-MAY-2007 01:43:51; Dark ; 35.0; 45; Alp Pav ; 1.94; 26000;occ; 70; 0;27011
 5; 575.4; 01-MAY-2007 01:50:28; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;27011
 6; 707.1; 01-MAY-2007 01:52:40; Dark ; 42.5; 134; Bet TrA ; 2.81; 6600;occ; 85; 0;27011
 7; 831.2; 01-MAY-2007 01:54:44; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;27011
 8; 1036.0; 01-MAY-2007 01:58:09; Dark ; 42.0; 78; Alp Lup ; 2.30; 28000;occ; 84; 0;27011
 9; 1129.0; 01-MAY-2007 01:59:42; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27011
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 18; 2994.8; 01-MAY-2007 02:30:48; Bright; 35.5; 36; 50Alp UMA ; 1.80; 6300;occ; 71; 0;27011
 19; 3444.8; 01-MAY-2007 02:38:18; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;27011

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 2; -2036.1; 01-MAY-2007 02:47:33; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;27011
 3; -495.7; 01-MAY-2007 03:13:13; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;27011
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 6; 8.2; 01-MAY-2007 03:21:37; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;27012
 7; 178.5; 01-MAY-2007 03:24:27; Dark ; 32.0; 45; Alp Pav ; 1.94; 26000;occ; 64; 0;27012
 8; 575.9; 01-MAY-2007 03:31:05; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;27012
 9; 707.7; 01-MAY-2007 03:33:17; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;27012
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 13; 1254.8; 01-MAY-2007 03:42:24; Dark ; 41.5; 54; 5The Cen ; 2.06; 4500;occ; 83; 0;27012
 14; 1512.2; 01-MAY-2007 03:46:41; Dark ; 47.5; 169; 46Gam Hya ; 2.99; 4700;occ; 95; 0;27012
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 17; 2095.5; 01-MAY-2007 03:56:24; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;27012
 18; 2559.9; 01-MAY-2007 04:04:09; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27012
 19; 2832.5; 01-MAY-2007 04:08:41; Bright; 36.0; 87; 64Gam UMA ; 2.43; 11000;occ; 72; 0;27012
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 6; 8.5; 01-MAY-2007 05:02:13; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;27013
 7; 179.1; 01-MAY-2007 05:05:04; Dark ; 32.0; 45; Alp Pav ; 1.94; 26000;occ; 64; 0;27013
 8; 576.2; 01-MAY-2007 05:11:41; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;27013
 9; 707.9; 01-MAY-2007 05:13:53; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27013
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3; 1257.2; 01-MAY-2007 20:28:26; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;27022
4; 1514.0; 01-MAY-2007 20:32:42; Dark ; 43.5; 169; 46Gam Hya ; 2.99; 4700;occ; 87; 0;27022
5; 1713.0; 01-MAY-2007 20:36:01; Bright; 38.0; 15; 67Alp Vir ; 0.98; 28000;occ; 76; 0;27022
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4; 12.1; 01-MAY-2007 21:48:16; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;27023
5; 579.7; 01-MAY-2007 21:57:44; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;27023
6; 711.6; 01-MAY-2007 21:59:56; Dark ; 36.5; 134; Bet TrA ; 2.81; 6600;occ; 73; 0;27023
7; 834.5; 01-MAY-2007 22:01:59; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;27023
8; 1040.0; 01-MAY-2007 22:05:24; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;27023
9; 1132.5; 01-MAY-2007 22:06:57; Dark ; 41.0; 81; Eta Cen ; 2.36; 28000;occ; 82; 0;27023
10; 1257.6; 01-MAY-2007 22:09:02; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;27023
11; 1514.0; 01-MAY-2007 22:13:18; Dark ; 39.5; 169; 46Gam Hya ; 2.99; 4700;occ; 79; 0;27023
12; 1713.1; 01-MAY-2007 22:16:37; Bright; 37.5; 15; 67Alp Vir ; 0.98; 28000;occ; 75; 0;27023
13; 1897.7; 01-MAY-2007 22:19:42; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;27023
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18; 2997.7; 01-MAY-2007 22:38:02; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;27023
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5; 580.0; 01-MAY-2007 23:38:20; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;27024
6; 711.9; 01-MAY-2007 23:40:32; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27024
7; 834.7; 01-MAY-2007 23:42:35; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;27024
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9; 1132.8; 01-MAY-2007 23:47:33; Dark ; 40.0; 81; Eta Cen ; 2.36; 28000;occ; 80; 0;27024
10; 1257.7; 01-MAY-2007 23:49:38; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27024
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 15; 3923.1; 03-MAY-2007 21:50:14; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;27051
 16; 4003.3; 03-MAY-2007 21:51:34; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;27051

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 5; 721.8; 03-MAY-2007 22:37:28; Dark ; 36.5; 134; Bet TrA ; 2.81; 6600;occ; 73; 0;27052
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 19; 3923.4; 03-MAY-2007 23:30:50; Bright; 45.5; 110; 37Del Cas ; 2.68; 8900;occ; 91; 0;27052
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 4; 23.1; 04-MAY-2007 00:06:25; Dark ; 38.0; 148; Alp Tuc ; 2.88; 4100;occ; 76; 0;27053
 5; 590.3; 04-MAY-2007 00:15:53; Dark ; 40.0; 43; Alp TrA ; 1.91; 4250;occ; 80; 0;27053
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 12; 1716.7; 04-MAY-2007 00:34:39; Bright; 39.0; 15; 67Alp Vir ; 0.98; 28000;occ; 78; 0;27053
 13; 1902.8; 04-MAY-2007 00:37:45; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;27053
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 15; 2559.9; 04-MAY-2007 00:48:42; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27053
 16; 2839.2; 04-MAY-2007 00:53:21; Bright; 34.5; 87; 64Gam UMa ; 2.43; 11000;occ; 69; 0;27053
 17; 2928.2; 04-MAY-2007 00:54:50; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;27053
 18; 3005.1; 04-MAY-2007 00:56:07; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27053
 19; 3444.9; 04-MAY-2007 01:03:27; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27053
 20; 3923.5; 04-MAY-2007 01:11:26; Bright; 46.0; 110; 37Del Cas ; 2.68; 8900;occ; 92; 0;27053
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 5; -132.4; 03-MAY-2007 07:17:51; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;27042
 6; 19.4; 03-MAY-2007 07:20:22; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;27043
 7; 586.9; 03-MAY-2007 07:29:50; Dark ; 48.0; 43; Alp TrA ; 1.91; 4250;occ; 96; 0;27043
 8; 718.9; 03-MAY-2007 07:32:02; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27043
 9; 839.8; 03-MAY-2007 07:34:03; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;27043
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 11; 1138.5; 03-MAY-2007 07:39:02; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27043
 12; 1262.4; 03-MAY-2007 07:41:05; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;27043
 13; 1517.5; 03-MAY-2007 07:45:20; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27043

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 9; 839.8; 03-MAY-2007 07:34:03; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;27043
 10; 1046.3; 03-MAY-2007 07:37:29; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;27043
 11; 1138.5; 03-MAY-2007 07:39:02; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27043
 12; 1262.4; 03-MAY-2007 07:41:05; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;27043
 13; 1517.5; 03-MAY-2007 07:45:20; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27043

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 4; 2559.9; 03-MAY-2007 08:02:43; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27043
 5; 2837.4; 03-MAY-2007 08:07:20; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;27043
 6; 2925.1; 03-MAY-2007 08:08:48; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;27043
 7; 3002.6; 03-MAY-2007 08:10:06; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;27043
 8; 3445.1; 03-MAY-2007 08:17:28; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27043
 9; 3922.2; 03-MAY-2007 08:25:25; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;27043
 10; 4003.0; 03-MAY-2007 08:26:46; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;27043
 11; 5556.4; 03-MAY-2007 08:52:39; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;27043
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 16; 6755.1; 03-MAY-2007 09:12:38; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27043
 17; 6876.0; 03-MAY-2007 09:14:39; Dark ; 50.5; 4; Alp1Cen ; -0.01; 5800;occ; 101; 0;27043
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 19; 7174.8; 03-MAY-2007 09:19:38; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27043
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6; 2925.3; 03-MAY-2007 09:49:24; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;27044
7; 3002.8; 03-MAY-2007 09:50:42; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;27044
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4; 2559.8; 03-MAY-2007 11:23:55; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27045
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6; 2925.6; 03-MAY-2007 11:30:00; Bright; 39.5; 82; 48Bet UMa ; 2.37; 10600;occ; 79; 0;27045
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 9; 3924.6; 04-MAY-2007 12:55:38; Bright; 32.5; 110; 37Del Cas ; 2.68; 8900;occ; 65; 0;27060
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5; 595.6; 05-MAY-2007 01:24:57; Dark ; 47.5; 43; Alp TrA ; 1.91; 4250;occ; 95; 0;27068
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7; 845.9; 05-MAY-2007 01:29:07; Dark ; 39.5; 4; Alp1Cen ; -0.01; 5800;occ; 79; 0;27068
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9; 1145.6; 05-MAY-2007 01:34:07; Dark ; 39.5; 81; Eta Cen ; 2.36; 28000;occ; 79; 0;27068
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6; 2934.8; 05-MAY-2007 12:07:32; Bright; 36.5; 82; 48Bet UMa ; 2.37; 10600;occ; 73; 0;27074
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23; 7767.6; 21-MAY-2007 10:04:01; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;27301

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6; 3060.6; 21-MAY-2007 10:26:10; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;27302
7; 3175.6; 21-MAY-2007 10:28:05; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27302
8; 3446.4; 21-MAY-2007 10:32:36; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27302
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12; 4787.2; 21-MAY-2007 10:54:57; Dark ; 44.0; 140; 88Gam Peg ; 2.83; 26000;occ; 88; 0;27302
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9; 4531.8; 23-MAY-2007 09:47:27; Dark ; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;27330
10; 4797.0; 23-MAY-2007 09:51:53; Dark ; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;27330
11; 5325.1; 23-MAY-2007 10:00:41; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;27330
12; 5847.4; 23-MAY-2007 10:09:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27330
13; 6010.1; 23-MAY-2007 10:12:06; Dark ; 59.0; 63; Bet Gru ; 2.15; 2800;occ; 118; 0;27330
14; 6110.1; 23-MAY-2007 10:13:46; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;27330
15; 6433.8; 23-MAY-2007 10:19:09; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27330
16; 6842.7; 23-MAY-2007 10:25:58; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27330
17; 7008.2; 23-MAY-2007 10:28:44; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;27330
18; 7242.7; 23-MAY-2007 10:32:38; Dark ; 50.5; 75; 26Eps Sco ; 2.29; 4250;occ; 101; 0;27330
19; 7415.2; 23-MAY-2007 10:35:31; Dark ; 55.5; 16; 21Alp Sco ; 1.02; 3000;occ; 111; 0;27330
20; 7510.4; 23-MAY-2007 10:37:06; Bright; 43.0; 80; 7Del Sco ; 2.32; 30000;occ; 86; 0;27330
21; 7666.0; 23-MAY-2007 10:39:42; Bright; 35.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 70; 0;27330

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2; 1733.9; 23-MAY-2007 10:41:25; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;27331
3; 2026.0; 23-MAY-2007 10:46:18; Bright; 39.5; 102; 24Alp Ser ; 2.60; 4250;occ; 79; 0;27331
4; 2370.8; 23-MAY-2007 10:52:02; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;27331
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6; 3049.0; 23-MAY-2007 11:03:20; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27331
7; 3173.2; 23-MAY-2007 11:05:25; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;27331
8; 3446.6; 23-MAY-2007 11:09:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27331
9; 3937.2; 23-MAY-2007 11:18:09; Bright; 34.0; 76; 27Gam Cas ; 2.30; 30000;occ; 68; 0;27331
10; 4009.5; 23-MAY-2007 11:19:21; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;27331
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13; 5325.6; 23-MAY-2007 11:41:17; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;27331
14; 5847.9; 23-MAY-2007 11:49:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27331
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16; 6110.9; 23-MAY-2007 11:54:22; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27331
17; 6434.6; 23-MAY-2007 11:59:46; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;27331
18; 6843.1; 23-MAY-2007 12:06:35; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;27331
19; 7008.7; 23-MAY-2007 12:09:20; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;27331
20; 7243.0; 23-MAY-2007 12:13:14; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27331
21; 7415.4; 23-MAY-2007 12:16:07; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;27331
22; 7560.0; 23-MAY-2007 12:18:32; Bright; 40.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 81; 0;27331
23; 7666.0; 23-MAY-2007 12:20:18; Bright; 16.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 33; 0;27331

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2;	1734.1;	23-MAY-2007	12:22:02;	Bright;	37.0;	104;	27Bet Lib	; 2.61;	13100;occ;	74;	0;	27332
3;	2025.9;	23-MAY-2007	12:26:53;	Bright;	39.5;	102;	24Alp Ser	; 2.60;	4250;occ;	79;	0;	27332
4;	2370.7;	23-MAY-2007	12:32:38;	Bright;	36.0;	83;		; 2.38;	11000;occ;	72;	0;	27332
5;	2560.6;	23-MAY-2007	12:35:48;	Bright;	34.0;	180;	27Gam Boo	; 3.04;	8000;occ;	68;	0;	27332
6;	3048.6;	23-MAY-2007	12:43:56;	Bright;	40.0;	119;	14Eta Dra	; 2.73;	4700;occ;	80;	0;	27332
7;	3173.1;	23-MAY-2007	12:46:01;	Bright;	35.0;	60;	7Bet UMi	; 2.08;	3950;occ;	70;	0;	27332
8;	3446.6;	23-MAY-2007	12:50:34;	Bright;	33.5;	49;	1Alp UMi	; 1.99;	6300;occ;	67;	0;	27332
9;	3937.2;	23-MAY-2007	12:58:45;	Bright;	37.5;	76;	27Gam Cas	; 2.30;	30000;occ;	75;	0;	27332
10;	4009.5;	23-MAY-2007	12:59:57;	Bright;	46.5;	68;	18Alp Cas	; 2.22;	4500;occ;	93;	0;	27332
11;	4532.2;	23-MAY-2007	13:08:40;	Dark	; 46.5;	58;	21Alp And	; 2.07;	11000;occ;	93;	0;	27332
12;	4797.6;	23-MAY-2007	13:13:05;	Dark	; 45.0;	140;	88Gam Peg	; 2.83;	26000;occ;	90;	0;	27332
13;	5326.1;	23-MAY-2007	13:21:53;	Dark	; 43.5;	52;	16Bet Cet	; 2.04;	4500;occ;	87;	0;	27332
14;	5848.5;	23-MAY-2007	13:30:36;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	27332
15;	6011.6;	23-MAY-2007	13:33:19;	Dark	; 57.0;	63;	Bet Gru	; 2.15;	2800;occ;	114;	0;	27332
16;	6111.7;	23-MAY-2007	13:34:59;	Dark	; 49.0;	31;	Alp Gru	; 1.73;	15200;occ;	98;	0;	27332
17;	6435.3;	23-MAY-2007	13:40:23;	Dark	; 47.5;	45;	Alp Pav	; 1.94;	26000;occ;	95;	0;	27332
18;	6843.6;	23-MAY-2007	13:47:11;	Dark	; 41.0;	141;	Bet Ara	; 2.84;	4600;occ;	82;	0;	27332
19;	7009.4;	23-MAY-2007	13:49:57;	Dark	; 47.0;	40;	The Sco	; 1.86;	7100;occ;	94;	0;	27332
20;	7243.5;	23-MAY-2007	13:53:51;	Dark	; 49.5;	75;	26Eps Sco	; 2.29;	4250;occ;	99;	0;	27332
21;	7415.7;	23-MAY-2007	13:56:43;	Dark	; 59.5;	16;	21Alp Sco	; 1.02;	3000;occ;	119;	0;	27332

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1;	1524.3;	23-MAY-2007	13:59:08;	Bright;	42.0;	97;	8Bet1Sco	; 2.56;	30000;occ;	84;	0;	27333
2;	1630.4;	23-MAY-2007	14:00:54;	Bright;	35.5;	122;	9Alp2Lib	; 2.75;	9700;occ;	71;	0;	27333
3;	1734.1;	23-MAY-2007	14:02:37;	Bright;	37.5;	104;	27Bet Lib	; 2.61;	13100;occ;	75;	0;	27333
4;	2025.8;	23-MAY-2007	14:07:29;	Bright;	39.5;	102;	24Alp Ser	; 2.60;	4250;occ;	79;	0;	27333
5;	2370.8;	23-MAY-2007	14:13:14;	Bright;	36.0;	83;		; 2.38;	11000;occ;	72;	0;	27333
6;	2560.6;	23-MAY-2007	14:16:24;	Bright;	35.0;	180;	27Gam Boo	; 3.04;	8000;occ;	70;	0;	27333
7;	3048.3;	23-MAY-2007	14:24:32;	Bright;	58.0;	119;	14Eta Dra	; 2.73;	4700;occ;	116;	0;	27333
8;	3173.1;	23-MAY-2007	14:26:36;	Bright;	38.5;	60;	7Bet UMi	; 2.08;	3950;occ;	77;	0;	27333
9;	3446.7;	23-MAY-2007	14:31:10;	Bright;	32.0;	49;	1Alp UMi	; 1.99;	6300;occ;	64;	0;	27333
10;	3937.4;	23-MAY-2007	14:39:21;	Bright;	41.0;	76;	27Gam Cas	; 2.30;	30000;occ;	82;	0;	27333
11;	4009.6;	23-MAY-2007	14:40:33;	Bright;	37.0;	68;	18Alp Cas	; 2.22;	4500;occ;	74;	0;	27333
12;	4532.4;	23-MAY-2007	14:49:16;	Dark	; 45.0;	58;	21Alp And	; 2.07;	11000;occ;	90;	0;	27333
13;	4798.2;	23-MAY-2007	14:53:41;	Dark	; 45.5;	140;	88Gam Peg	; 2.83;	26000;occ;	91;	0;	27333
14;	5326.7;	23-MAY-2007	15:02:30;	Dark	; 42.5;	52;	16Bet Cet	; 2.04;	4500;occ;	85;	0;	27333
15;	5849.1;	23-MAY-2007	15:11:12;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	27333
16;	6012.4;	23-MAY-2007	15:13:56;	Dark	; 55.0;	63;	Bet Gru	; 2.15;	2800;occ;	110;	0;	27333
17;	6112.6;	23-MAY-2007	15:15:36;	Dark	; 44.5;	31;	Alp Gru	; 1.73;	15200;occ;	89;	0;	27333
18;	6436.1;	23-MAY-2007	15:20:59;	Dark	; 42.0;	45;	Alp Pav	; 1.94;	26000;occ;	84;	0;	27333
19;	6844.0;	23-MAY-2007	15:27:47;	Dark	; 42.5;	141;	Bet Ara	; 2.84;	4600;occ;	85;	0;	27333
20;	7009.9;	23-MAY-2007	15:30:33;	Dark	; 53.5;	40;	The Sco	; 1.86;	7100;occ;	107;	0;	27333
21;	7122.7;	23-MAY-2007	15:32:26;	Dark	; 26.0;	115;	34Ups Sco	; 2.70;	26000;occ;	52;	0;	27333
22;	7244.0;	23-MAY-2007	15:34:27;	Dark	; 49.0;	75;	26Eps Sco	; 2.29;	4250;occ;	98;	0;	27333
23;	7416.1;	23-MAY-2007	15:37:19;	Dark	; 3.0;	16;	21Alp Sco	; 1.02;	3000;occ;	6;	0;	27333

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1;	1380.1;	23-MAY-2007	15:37:19;	Dark	; 60.0;	16;	21Alp Sco	; 1.02;	3000;occ;	120;	0;	27334
2;	1524.4;	23-MAY-2007	15:39:44;	Bright;	40.5;	97;	8Bet1Sco	; 2.56;	30000;occ;	81;	0;	27334
3;	1631.7;	23-MAY-2007	15:41:31;	Bright;	34.5;	122;	9Alp2Lib	; 2.75;	9700;occ;	69;	0;	27334
4;	1734.2;	23-MAY-2007	15:43:13;	Bright;	36.5;	104;	27Bet Lib	; 2.61;	13100;occ;	73;	0;	27334
5;	2025.7;	23-MAY-2007	15:48:05;	Bright;	39.5;	102;	24Alp Ser	; 2.60;	4250;occ;	79;	0;	27334
6;	2370.7;	23-MAY-2007	15:53:50;	Bright;	36.0;	83;		; 2.38;	11000;occ;	72;	0;	27334
7;	2560.7;	23-MAY-2007	15:57:00;	Bright;	35.0;	180;	27Gam Boo	; 3.04;	8000;occ;	70;	0;	27334
8;	3047.9;	23-MAY-2007	16:05:07;	Bright;	40.0;	119;	14Eta Dra	; 2.73;	4700;occ;	80;	0;	27334
9;	3173.0;	23-MAY-2007	16:07:12;	Bright;	37.5;	60;	7Bet UMi	; 2.08;	3950;occ;	75;	0;	27334
10;	3446.7;	23-MAY-2007	16:11:46;	Bright;	35.5;	49;	1Alp UMi	; 1.99;	6300;occ;	71;	0;	27334
11;	3937.3;	23-MAY-2007	16:19:57;	Bright;	37.0;	76;	27Gam Cas	; 2.30;	30000;occ;	74;	0;	27334
12;	4009.8;	23-MAY-2007	16:21:09;	Bright;	55.0;	68;	18Alp Cas	; 2.22;	4500;occ;	110;	0;	27334
13;	4532.4;	23-MAY-2007	16:29:52;	Dark	; 45.5;	58;	21Alp And	; 2.07;	11000;occ;	91;	0;	27334
14;	4798.6;	23-MAY-2007	16:34:18;	Dark	; 45.5;	140;	88Gam Peg	; 2.83;	26000;occ;	91;	0;	27334
15;	5327.0;	23-MAY-2007	16:43:06;	Dark	; 43.0;	52;	16Bet Cet	; 2.04;	4500;occ;	86;	0;	27334
16;	5849.7;	23-MAY-2007	16:51:49;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	27334
17;	6013.2;	23-MAY-2007	16:54:32;	Dark	; 49.5;	63;	Bet Gru	; 2.15;	2800;occ;	99;	0;	27334
18;	6113.5;	23-MAY-2007	16:56:13;	Dark	; 45.0;	31;	Alp Gru	; 1.73;	15200;occ;	90;	0;	27334
19;	6436.8;	23-MAY-2007	17:01:36;	Dark	; 42.0;	45;	Alp Pav	; 1.94;	26000;occ;	84;	0;	27334
20;	6844.6;	23-MAY-2007	17:08:24;	Dark	; 39.5;	141;	Bet Ara	; 2.84;	4600;occ;	79;	0;	27334
21;	7010.5;	23-MAY-2007	17:11:10;	Dark	; 51.0;	40;	The Sco	; 1.86;	7100;occ;	102;	0;	27334

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3; 1380.4; 23-MAY-2007 17:17:56; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;27335
4; 1524.5; 23-MAY-2007 17:20:20; Bright; 40.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 81; 0;27335
5; 1640.1; 23-MAY-2007 17:22:15; Bright; 26.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 53; 0;27335
6; 1734.5; 23-MAY-2007 17:23:50; Bright; 37.5; 104; 27Bet Lib ; 2.61; 13100;occ; 75; 0;27335
7; 2025.5; 23-MAY-2007 17:28:41; Bright; 39.5; 102; 24Alp Ser ; 2.60; 4250;occ; 79; 0;27335
8; 2370.6; 23-MAY-2007 17:34:26; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;27335
9; 2560.5; 23-MAY-2007 17:37:36; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;27335
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11; 3172.9; 23-MAY-2007 17:47:48; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;27335
12; 3446.6; 23-MAY-2007 17:52:22; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27335
13; 3937.1; 23-MAY-2007 18:00:32; Bright; 34.0; 76; 27Gam Cas ; 2.30; 30000;occ; 68; 0;27335
14; 4009.6; 23-MAY-2007 18:01:45; Bright; 44.5; 68; 18Alp Cas ; 2.22; 4500;occ; 89; 0;27335
15; 4532.6; 23-MAY-2007 18:10:28; Dark ; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;27335
16; 4799.0; 23-MAY-2007 18:14:54; Dark ; 44.0; 140; 88Gam Peg ; 2.83; 26000;occ; 88; 0;27335
17; 5327.4; 23-MAY-2007 18:23:43; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;27335
18; 5850.2; 23-MAY-2007 18:32:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27335
19; 6013.9; 23-MAY-2007 18:35:09; Dark ; 59.0; 63; Bet Gru ; 2.15; 2800;occ; 118; 0;27335
20; 6114.3; 23-MAY-2007 18:36:50; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;27335
21; 6437.5; 23-MAY-2007 18:42:13; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27335
22; 6845.0; 23-MAY-2007 18:49:00; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27335
23; 7011.1; 23-MAY-2007 18:51:46; Dark ; 31.0; 40; The Sco ; 1.86; 7100;occ; 62; 0;27335
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3; 1208.7; 23-MAY-2007 18:55:40; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;27336
4; 1380.6; 23-MAY-2007 18:58:32; Dark ; 60.0; 16; 21Alp Sco ; 1.02; 3000;occ; 120; 0;27336
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6; 1734.3; 23-MAY-2007 19:04:26; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;27336
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8; 2370.6; 23-MAY-2007 19:15:02; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27336
9; 2560.5; 23-MAY-2007 19:18:12; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;27336
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11; 3172.8; 23-MAY-2007 19:28:24; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27336
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6; 1834.4; 31-MAY-2007 16:33:46; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27449
7; 2015.4; 31-MAY-2007 16:36:47; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27449
8; 2370.7; 31-MAY-2007 16:42:42; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27449
9; 3008.2; 31-MAY-2007 16:53:20; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27449
10; 3166.4; 31-MAY-2007 16:55:58; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27449
11; 3446.9; 31-MAY-2007 17:00:39; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27449
12; 3930.6; 31-MAY-2007 17:08:42; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;27449
13; 4393.4; 31-MAY-2007 17:16:25; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;27449
14; 5385.8; 31-MAY-2007 17:32:57; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;27449
15; 5646.7; 31-MAY-2007 17:37:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27449
16; 5788.4; 31-MAY-2007 17:39:40; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;27449
17; 6104.5; 31-MAY-2007 17:44:56; Dark ; 62.0; 63; Bet Gru ; 2.15; 2800;occ; 124; 0;27449
18; 6216.1; 31-MAY-2007 17:46:48; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;27449
19; 6517.2; 31-MAY-2007 17:51:49; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27449
20; 6892.2; 31-MAY-2007 17:58:04; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27449
21; 6966.8; 31-MAY-2007 17:59:18; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27449
22; 7067.9; 31-MAY-2007 18:00:59; Dark ; 52.0; 40; The Sco ; 1.86; 7100;occ; 104; 0;27449
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4; 1370.5; 31-MAY-2007 18:06:38; Dark ; 41.5; 136; 23Tau Sco ; 2.82; 30000;occ; 83; 0;27450
5; 1542.6; 31-MAY-2007 18:09:30; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27450
6; 1702.4; 31-MAY-2007 18:12:10; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;27450

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8;	2015.3;	31-MAY-2007	18:17:23;	Bright;	36.5;	102;	24Alp Ser	;	2.60;	4250;occ;	73;	0;27450	
9;	2370.5;	31-MAY-2007	18:23:18;	Bright;	37.0;	67;	5Alp CrB	;	2.22;	11000;occ;	74;	0;27450	
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18;	6105.3;	31-MAY-2007	19:25:33;	Dark	;	51.5;	63;	Bet Gru	;	2.15;	2800;occ;	103;	0;27450
19;	6216.9;	31-MAY-2007	19:27:25;	Dark	;	44.5;	31;	Alp Gru	;	1.73;	15200;occ;	89;	0;27450
20;	6517.8;	31-MAY-2007	19:32:25;	Dark	;	41.5;	45;	Alp Pav	;	1.94;	26000;occ;	83;	0;27450
21;	6892.5;	31-MAY-2007	19:38:40;	Dark	;	38.5;	141;	Bet Ara	;	2.84;	4600;occ;	77;	0;27450
22;	6967.1;	31-MAY-2007	19:39:55;	Dark	;	38.5;	147;	Alp Ara	;	2.88;	26000;occ;	77;	0;27450