

GOMOS Daily Report 08-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	10AUG2007 05:40:56
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (08AUG2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (09AUG2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

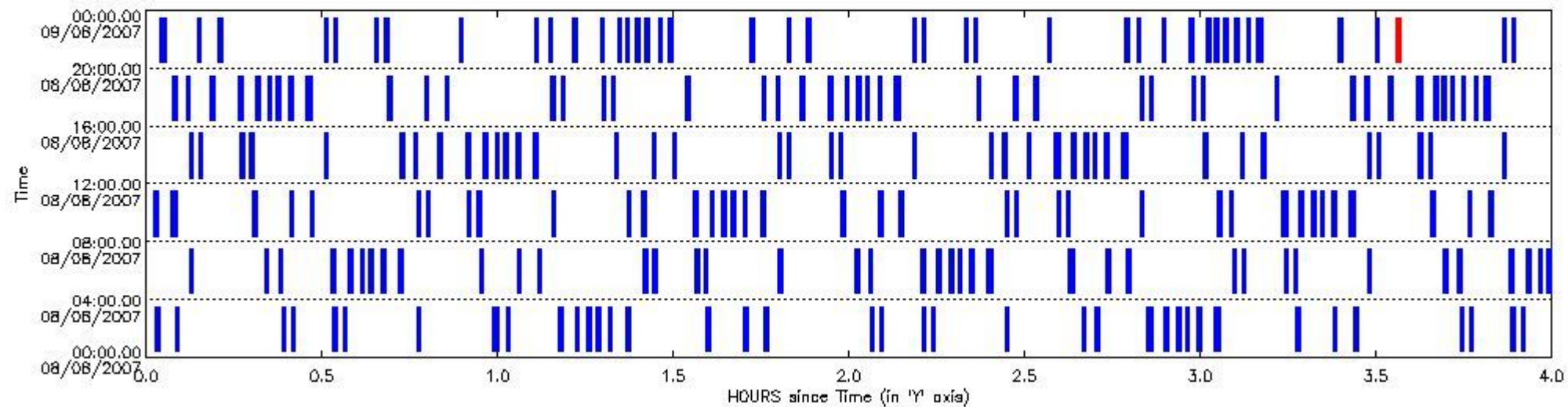
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

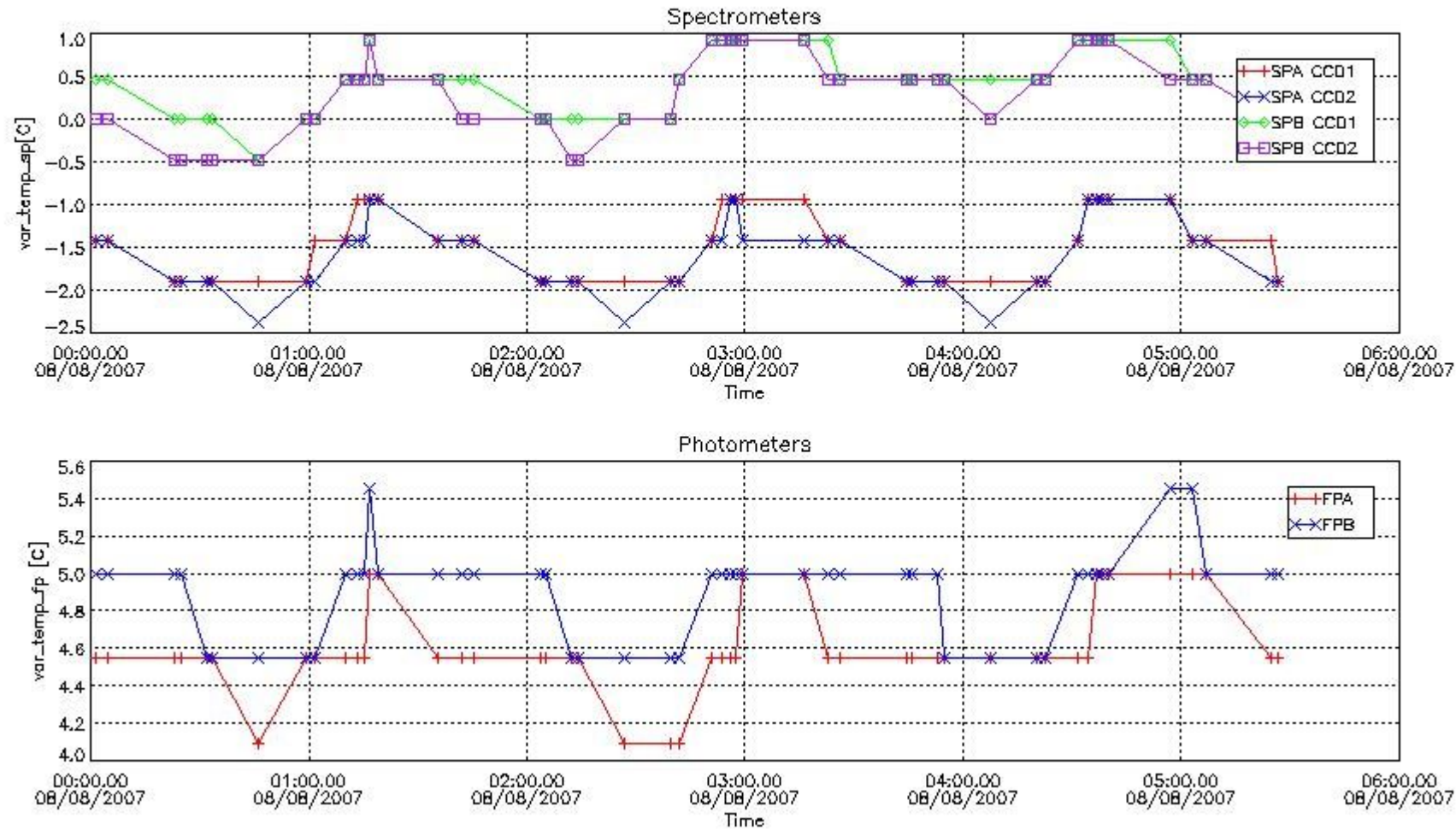
UTC start time	Star name	Star ID	Orbit
08-AUG-2007 23:33:16	AlpGru	31	28441

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_1PNPDE20070808_000127_000000492060_00317_28427_8270.N1	08-AUG-2007 00:01:27	Straylight	49.000	148	Alp Tuc	2.8780	4100.0	98	28427	No
2	GOM_TRA_1PNPDE20070808_000455_000000432060_00317_28427_8271.N1	08-AUG-2007 00:04:55	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	28427	No
3	GOM_TRA_1PNPDE20070808_002308_000000352060_00317_28427_8272.N1	08-AUG-2007 00:23:08	Bright	35.000	11	53Alp Aql	0.76500	8000.0	70	28427	No
4	GOM_TRA_1PNPDE20070808_002444_000000352060_00317_28427_8273.N1	08-AUG-2007 00:24:44	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	28427	No
5	GOM_TRA_1PNPDE20070808_003151_000000372060_00317_28427_8274.N1	08-AUG-2007 00:31:51	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	28427	No
6	GOM_TRA_1PNPDE20070808_003331_000000362060_00317_28427_8275.N1	08-AUG-2007 00:33:31	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	28427	No
7	GOM_TRA_1PNPDE20070808_004610_000000342060_00317_28427_8276.N1	08-AUG-2007 00:46:10	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	28427	No
8	GOM_TRA_1PNPDE20070808_005909_000000542060_00317_28427_8277.N1	08-AUG-2007 00:59:09	Bright	54.000	42	34Bet Aur	1.9000	10200.	108	28427	No
9	GOM_TRA_1PNPDE20070808_010127_000000352060_00317_28427_8278.N1	08-AUG-2007 01:01:27	Bright	35.000	107	37The Aur	2.6490	11000.	70	28427	No
10	GOM_TRA_1PNPDE20070808_011017_000000522060_00317_28427_8279.N1	08-AUG-2007 01:10:17	Dark	51.500	14	58Alp Ori	0.87000	3000.0	103	28427	No

11	GOM_TRA_1PNPDE20070808_011311_000000462060_00317_28427_8280.N1	08-AUG-2007 01:13:11	Dark	46.000	30	46Eps Ori	1.6940	30000.	92	28427	No
12	GOM_TRA_1PNPDE20070808_011516_000000422060_00317_28427_8281.N1	08-AUG-2007 01:15:16	Dark	41.500	56	53Kap Ori	2.0650	30000.	83	28427	No
13	GOM_TRA_1PNPDE20070808_011648_000000412060_00317_28427_8407.N1	08-AUG-2007 01:16:48	Dark	41.000	47	2Bet CMa	1.9760	28000.	82	28427	Yes
14	GOM_TRA_1PNPDE20070808_011850_000000402060_00317_28427_8408.N1	08-AUG-2007 01:18:50	Dark	40.000	139	9Bet Lep	2.8330	5600.0	80	28427	No
15	GOM_TRA_1PNPDE20070808_013538_000000432060_00318_28428_8409.N1	08-AUG-2007 01:35:38	Dark	43.000	9	Alp Eri	0.45300	24000.	86	28428	No
16	GOM_TRA_1PNPDE20070808_014203_000000432060_00318_28428_8410.N1	08-AUG-2007 01:42:03	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	28428	No
17	GOM_TRA_1PNPDE20070808_014531_000000432060_00318_28428_8411.N1	08-AUG-2007 01:45:31	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	28428	No
18	GOM_TRA_1PNPDE20070808_020343_000000362060_00318_28428_8412.N1	08-AUG-2007 02:03:43	Bright	36.000	11	53Alp Aql	0.76500	8000.0	72	28428	No
19	GOM_TRA_1PNPDE20070808_020520_000000352060_00318_28428_8413.N1	08-AUG-2007 02:05:20	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28428	No
20	GOM_TRA_1PNPDE20070808_021227_000000352060_00318_28428_8414.N1	08-AUG-2007 02:12:27	Bright	35.000	5	3Alp Lyr	0.033000	11000.	70	28428	No
21	GOM_TRA_1PNPDE20070808_021407_000000352060_00318_28428_8415.N1	08-AUG-2007 02:14:07	Bright	34.500	144	18Del Cyg	2.8600	11000.	69	28428	No
22	GOM_TRA_1PNPDE20070808_022646_000000362060_00318_28428_8416.N1	08-AUG-2007 02:26:46	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28428	No
23	GOM_TRA_1PNPDE20070808_023945_000000372060_00318_28428_8584.N1	08-AUG-2007 02:39:45	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	28428	No
24	GOM_TRA_1PNPDE20070808_024203_000000352060_00318_28428_8585.N1	08-AUG-2007 02:42:03	Bright	35.000	107	37The Aur	2.6490	11000.	70	28428	No
25	GOM_TRA_1PNPDE20070808_025053_000000552060_00318_28428_8586.N1	08-AUG-2007 02:50:53	Dark	55.000	14	58Alp Ori	0.87000	3000.0	110	28428	No
26	GOM_TRA_1PNPDE20070808_025347_000000462060_00318_28428_8587.N1	08-AUG-2007 02:53:47	Dark	46.000	30	46Eps Ori	1.6940	30000.	92	28428	No
27	GOM_TRA_1PNPDE20070808_025552_000000422060_00318_28428_8588.N1	08-AUG-2007 02:55:52	Dark	42.000	56	53Kap Ori	2.0650	30000.	84	28428	No
28	GOM_TRA_1PNPDE20070808_025724_000000422060_00318_28428_8589.N1	08-AUG-2007 02:57:24	Dark	42.000	47	2Bet CMa	1.9760	28000.	84	28428	No
29	GOM_TRA_1PNPDE20070808_025926_000000422060_00318_28428_8590.N1	08-AUG-2007 02:59:26	Dark	42.000	139	9Bet Lep	2.8330	5600.0	84	28428	No
30	GOM_TRA_1PNPDE20070808_031615_000000432060_00319_28429_8591.N1	08-AUG-2007 03:16:15	Dark	43.000	9	Alp Eri	0.45300	24000.	86	28429	No
31	GOM_TRA_1PNPDE20070808_032240_000000392060_00319_28429_8592.N1	08-AUG-2007 03:22:40	Straylight	39.000	148	Alp Tuc	2.8780	4100.0	78	28429	No
32	GOM_TRA_1PNPDE20070808_032608_000000432060_00319_28429_8593.N1	08-AUG-2007 03:26:08	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	28429	No
33	GOM_TRA_1PNPDE20070808_034420_000000362060_00319_28429_8594.N1	08-AUG-2007 03:44:20	Bright	36.000	11	53Alp Aql	0.76500	8000.0	72	28429	No
34	GOM_TRA_1PNPDE20070808_034556_000000352060_00319_28429_8595.N1	08-AUG-2007 03:45:56	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	28429	No
35	GOM_TRA_1PNPDE20070808_035304_000000402060_00319_28429_8596.N1	08-AUG-2007 03:53:04	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	28429	No
36	GOM_TRA_1PNPDE20070808_035442_000000362060_00319_28429_8597.N1	08-AUG-2007 03:54:42	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	28429	No
37	GOM_TRA_1PNPDE20070808_040722_000000372060_00319_28429_8598.N1	08-AUG-2007 04:07:22	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	28429	No
38	GOM_TRA_1PNPDE20070808_042021_000000352060_00319_28429_8750.N1	08-AUG-2007 04:20:21	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	28429	No
39	GOM_TRA_1PNPDE20070808_042239_000000352060_00319_28429_8751.N1	08-AUG-2007 04:22:39	Bright	34.500	107	37The Aur	2.6490	11000.	69	28429	No
40	GOM_TRA_1PNPDE20070808_043129_000000482060_00319_28429_8752.N1	08-AUG-2007 04:31:29	Dark	47.500	14	58Alp Ori	0.87000	3000.0	95	28429	No
41	GOM_TRA_1PNPDE20070808_043424_000000462060_00319_28429_8753.N1	08-AUG-2007 04:34:24	Dark	46.000	30	46Eps Ori	1.6940	30000.	92	28429	No
42	GOM_TRA_1PNPDE20070808_043629_000000412060_00319_28429_8754.N1	08-AUG-2007 04:36:29	Dark	41.000	56	53Kap Ori	2.0650	30000.	82	28429	No
43	GOM_TRA_1PNPDE20070808_043800_000000382060_00319_28429_8755.N1	08-AUG-2007 04:38:00	Dark	38.000	47	2Bet CMa	1.9760	28000.	76	28429	No
44	GOM_TRA_1PNPDE20070808_044003_000000442060_00319_28429_8756.N1	08-AUG-2007 04:40:03	Dark	44.000	139	9Bet Lep	2.8330	5600.0	88	28429	No
45	GOM_TRA_1PNPDE20070808_045652_000000412060_00320_28430_8757.N1	08-AUG-2007 04:56:52	Dark	41.000	9	Alp Eri	0.45300	24000.	82	28430	No
46	GOM_TRA_1PNPDE20070808_050316_000000422060_00320_28430_8758.N1	08-AUG-2007 05:03:16	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	28430	No
47	GOM_TRA_1PNPDE20070808_050644_000000462060_00320_28430_8759.N1	08-AUG-2007 05:06:44	Straylight	46.000	31	Alp Gru	1.7340	15200.	92	28430	No
48	GOM_TRA_1PNPDE20070808_052456_000000352060_00320_28430_8760.N1	08-AUG-2007 05:24:56	Bright	35.000	11	53Alp Aql	0.76500	8000.0	70	28430	No
49	GOM_TRA_1PNPDE20070808_052632_000000362060_00320_28430_8761.N1	08-AUG-2007 05:26:32	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	28430	No

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



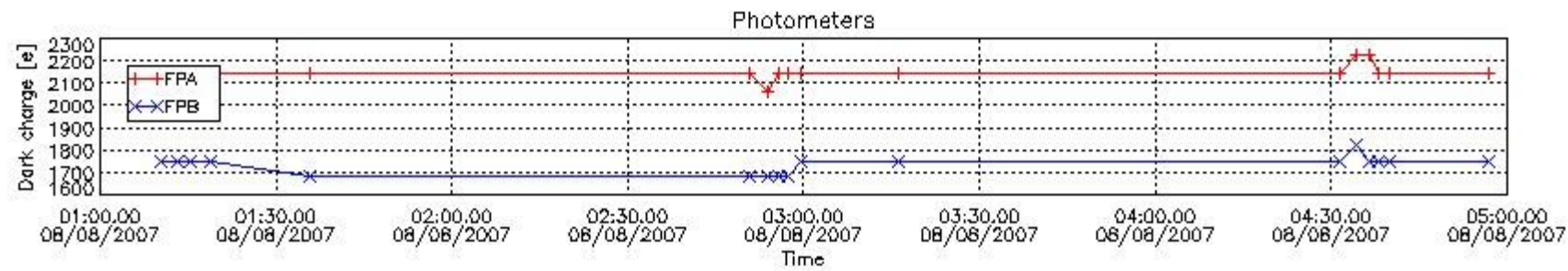
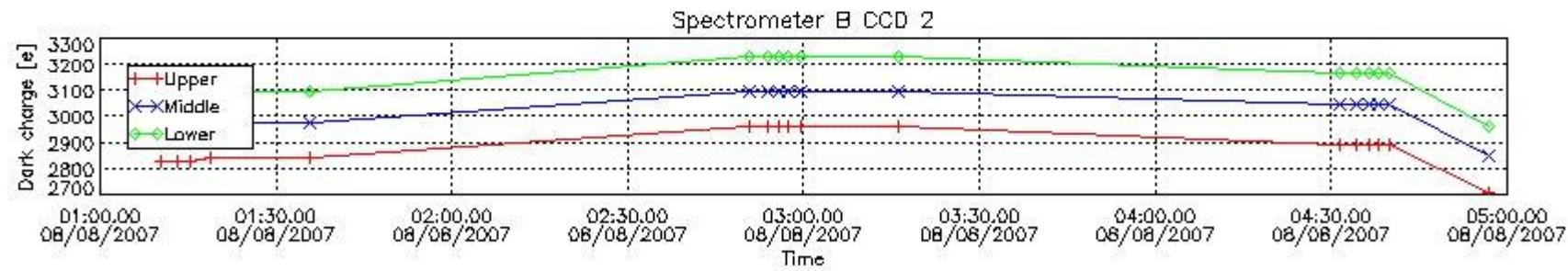
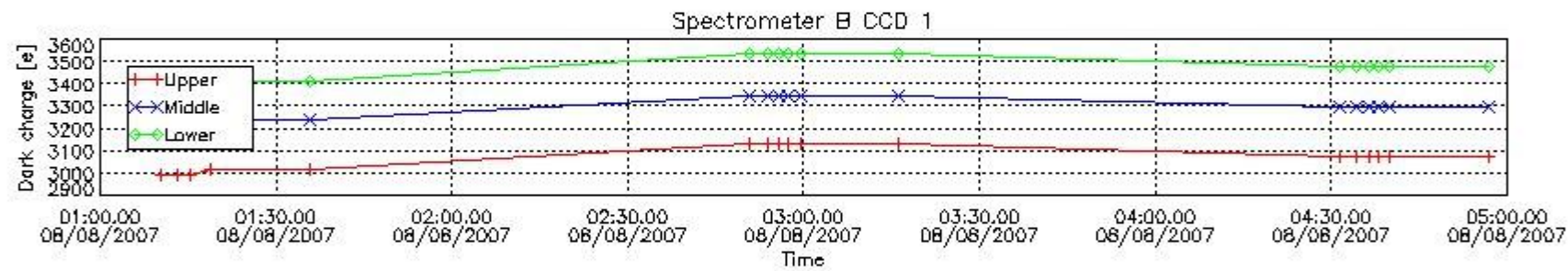
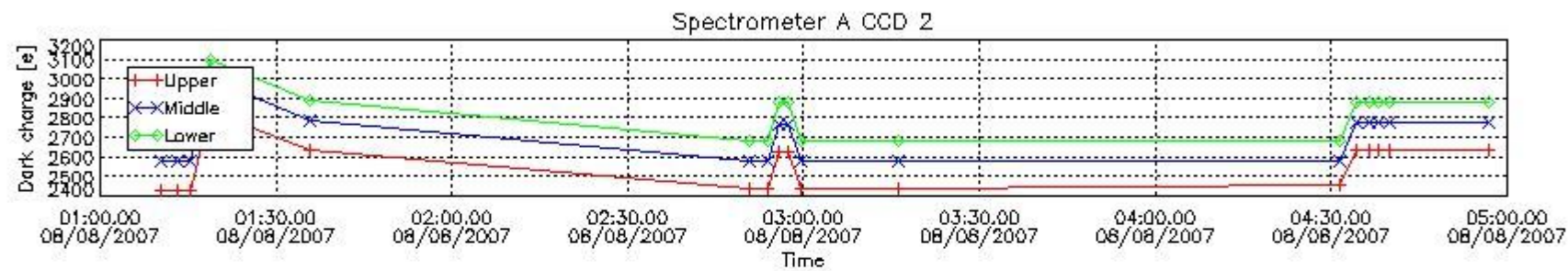
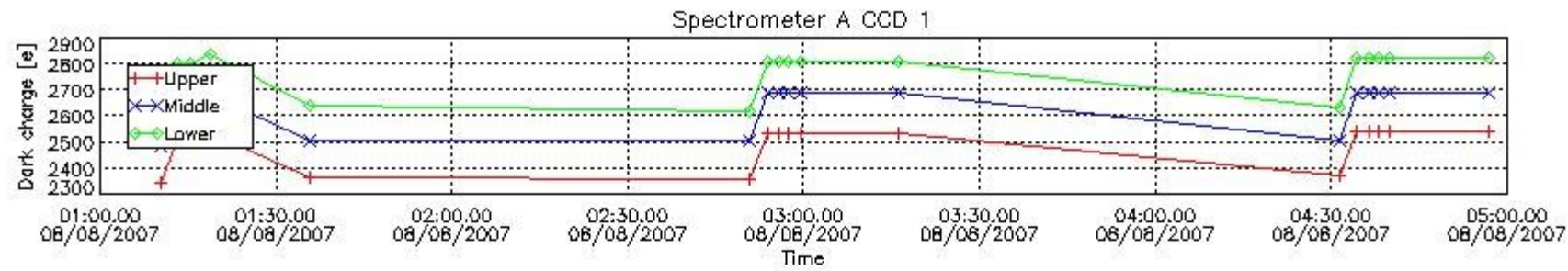
4. Overview of dark signal processing per product

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

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

4.1 All products used the DSA observation for the DC computation

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



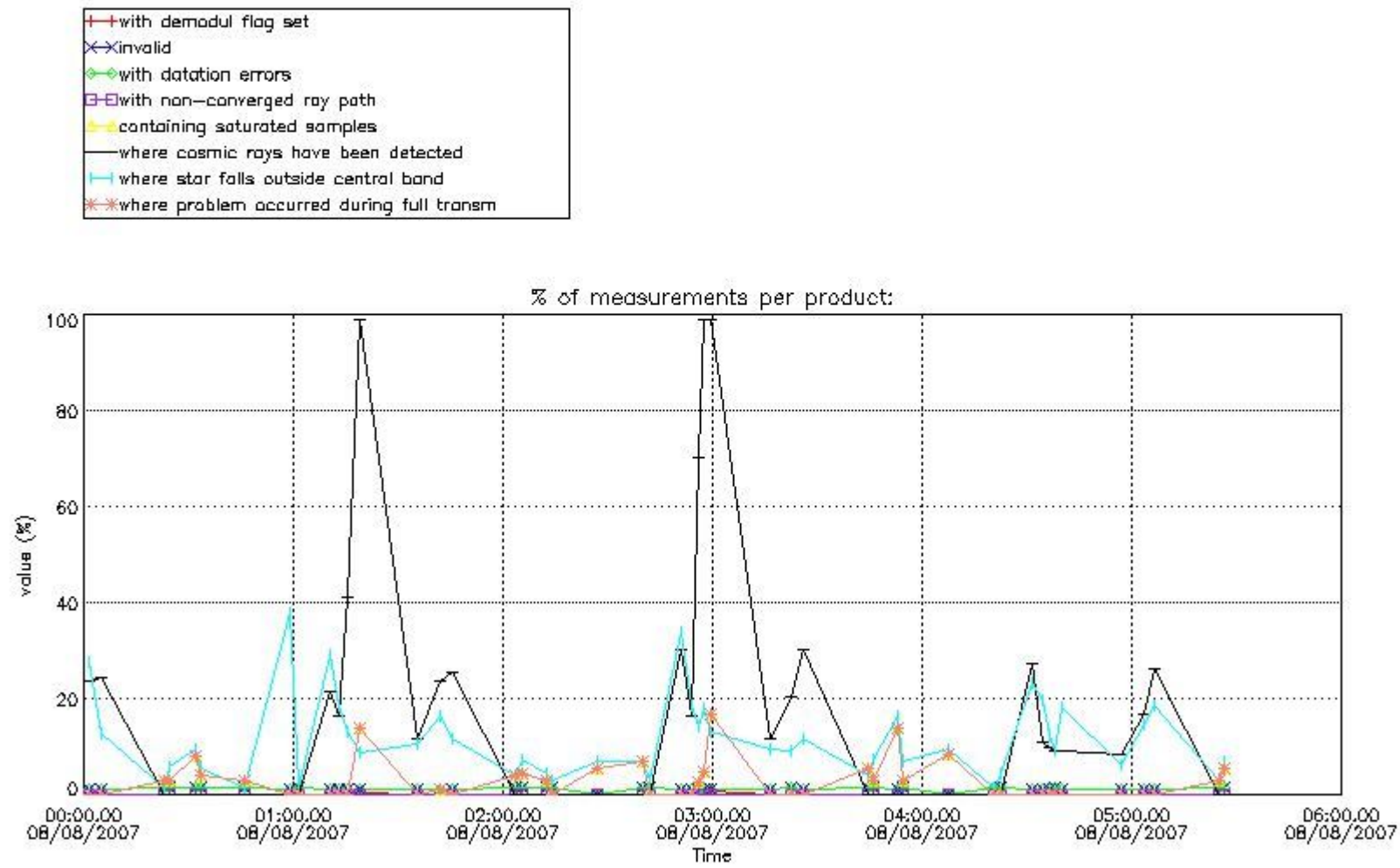
5. Demodulation flag and quality information monitoring

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

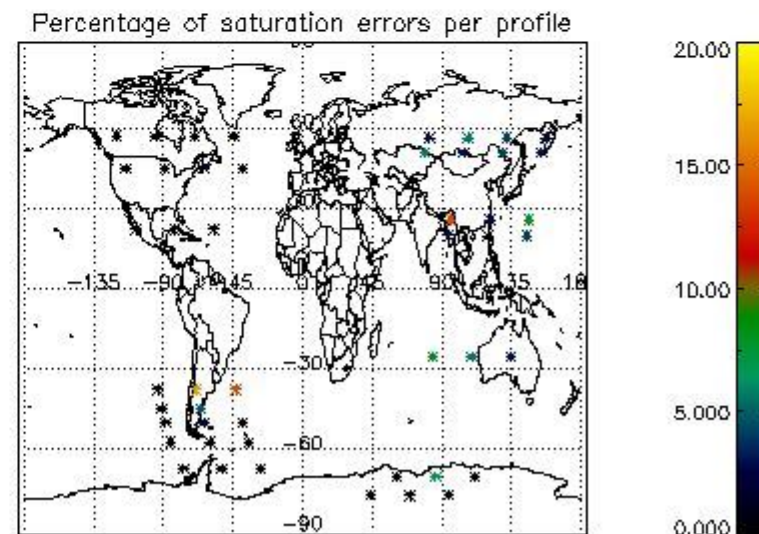
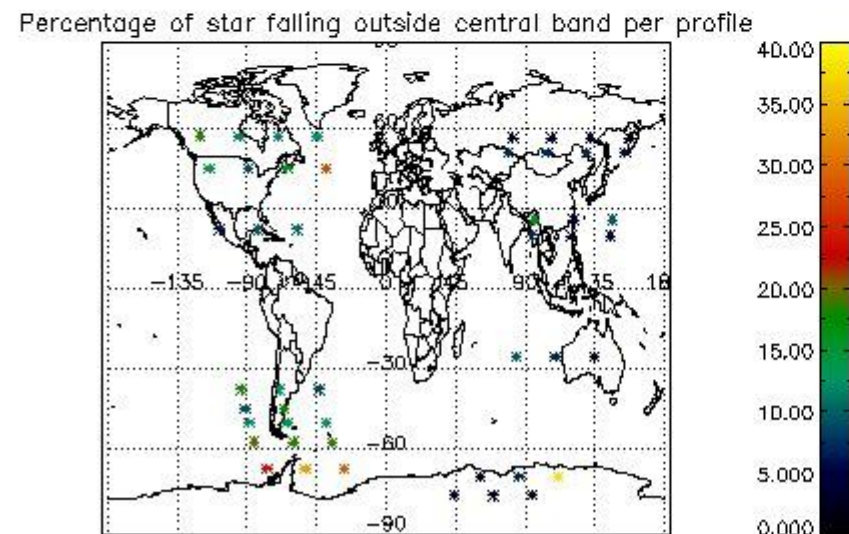
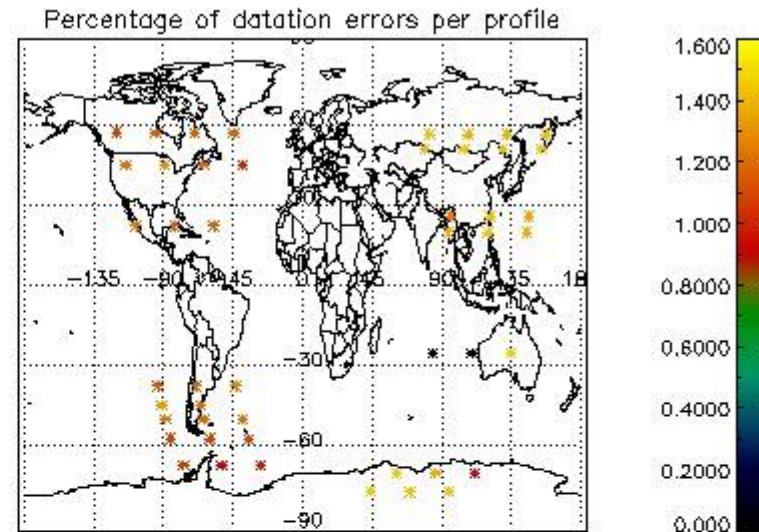
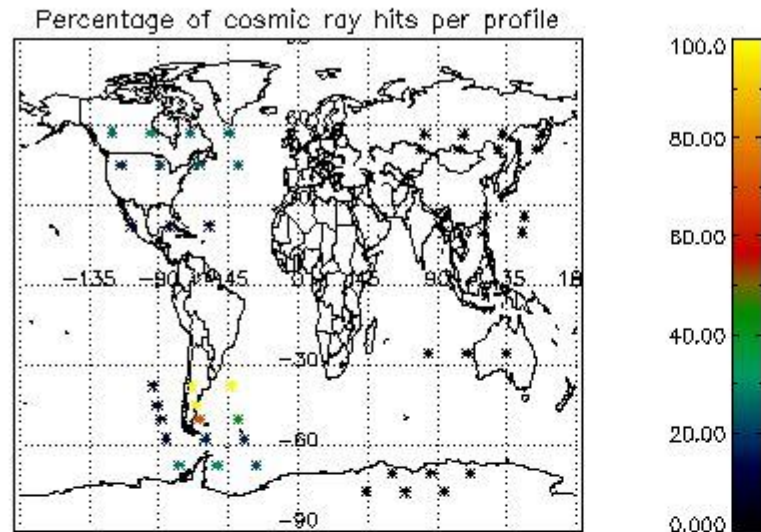
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.6667 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



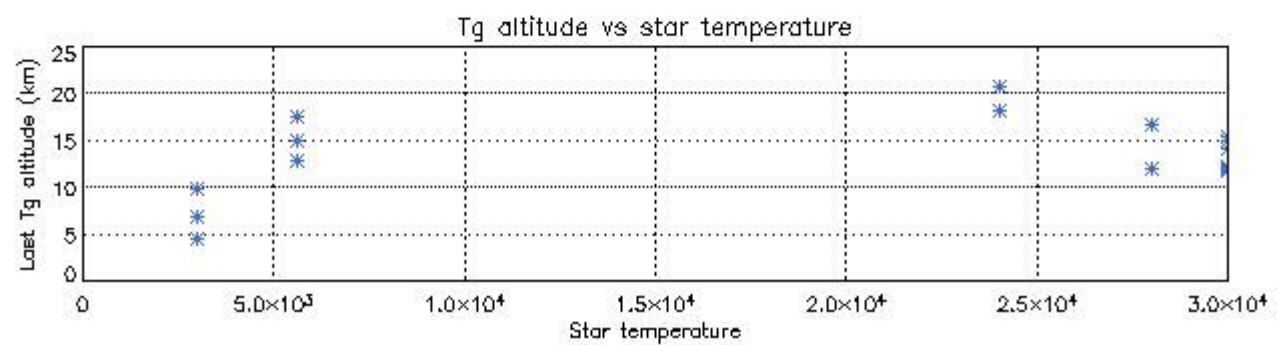
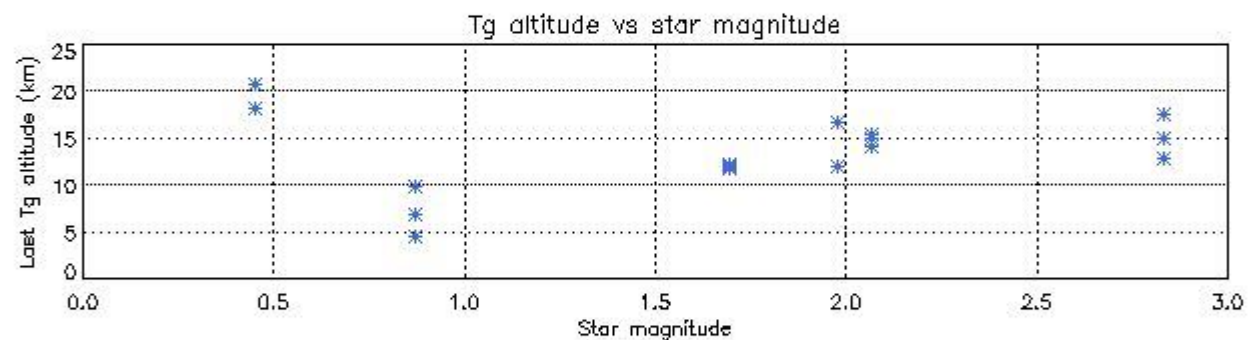
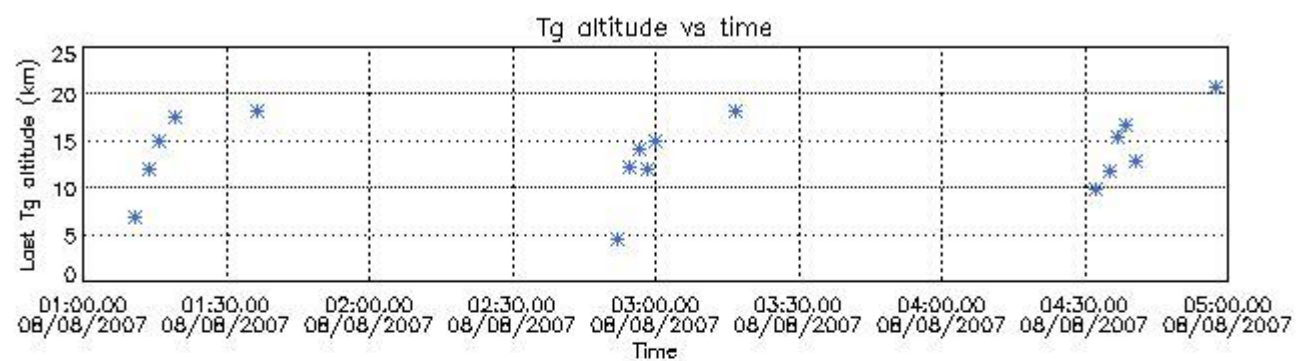
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.656	21.336	NaN
St. deviation:	4.1416	4.6659	NaN
Maximum:	20.641	26.760	NaN
Minimum:	4.5894	4.0806	NaN
Number of data:	17.000	23.000	NaN

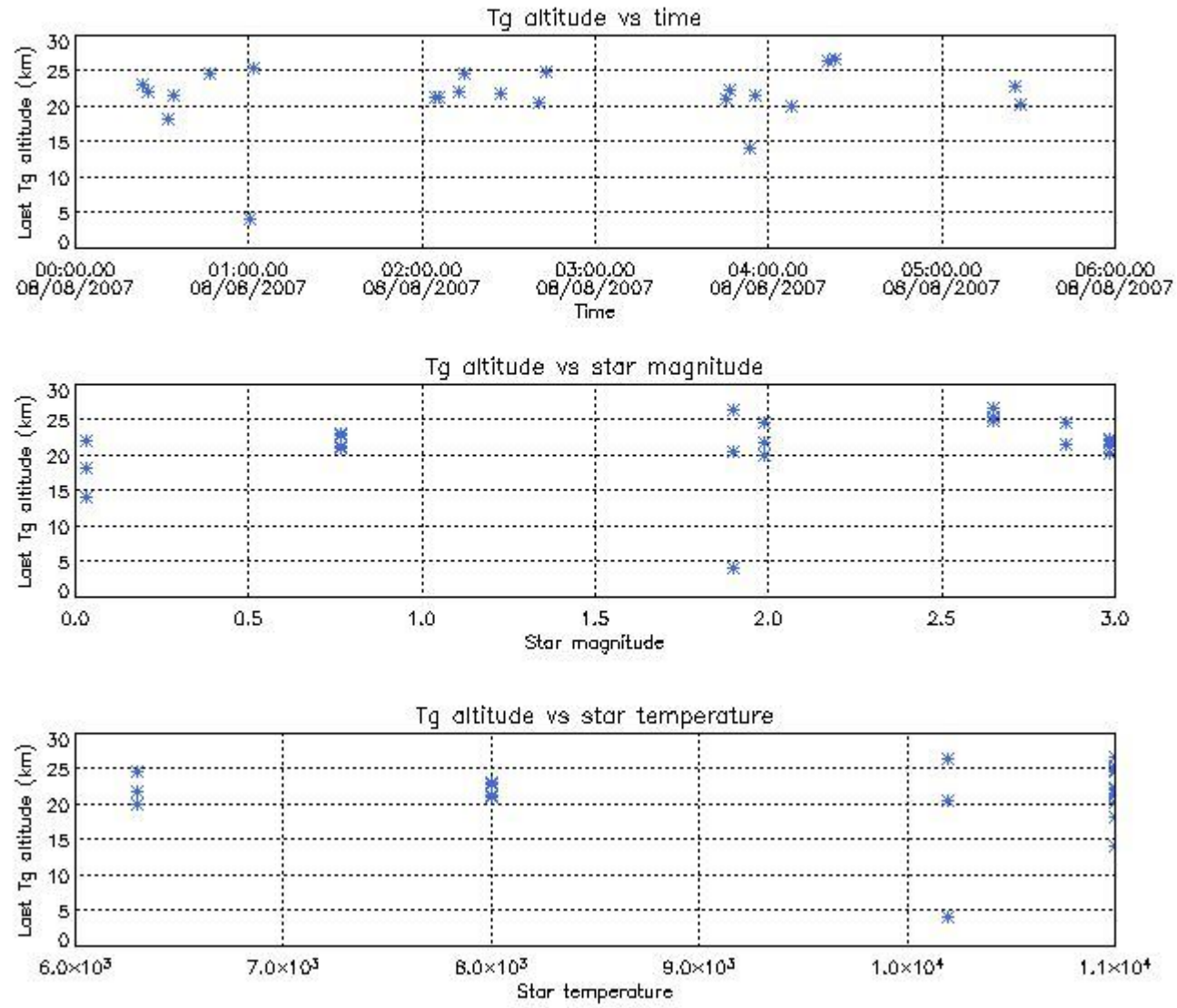
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

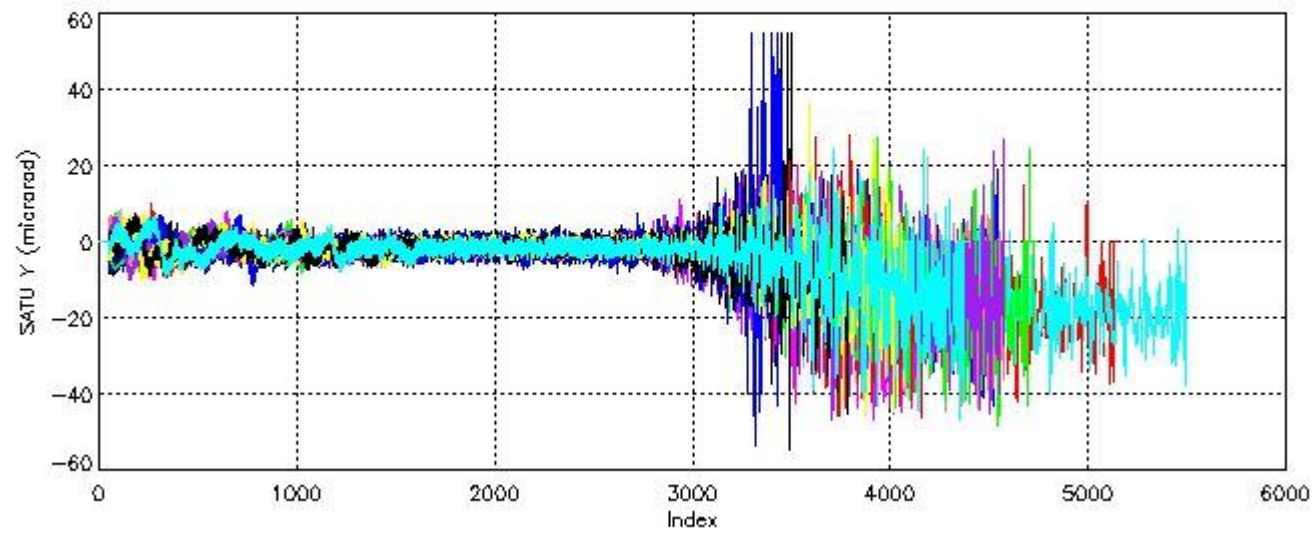
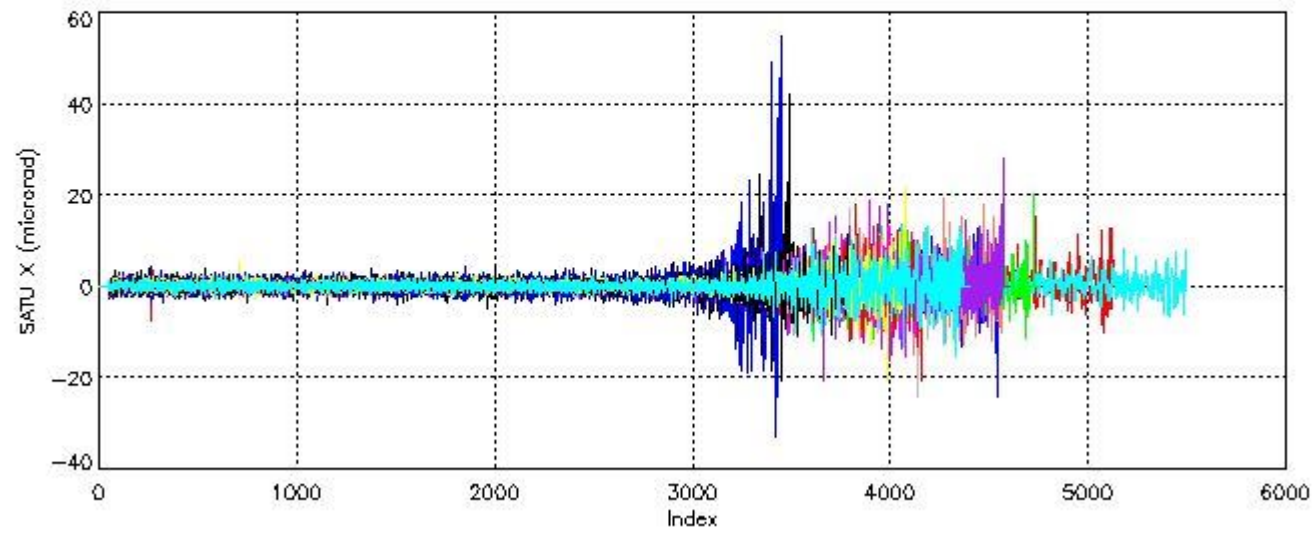


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.11121	-1.3629	0.068895	-1.2855
St. deviation:	0.51300	2.6829	0.88783	3.1674
Maximum:	5.1000	10.100	6.7000	11.900
Minimum:	-7.5000	-10.200	-5.4000	-13.800

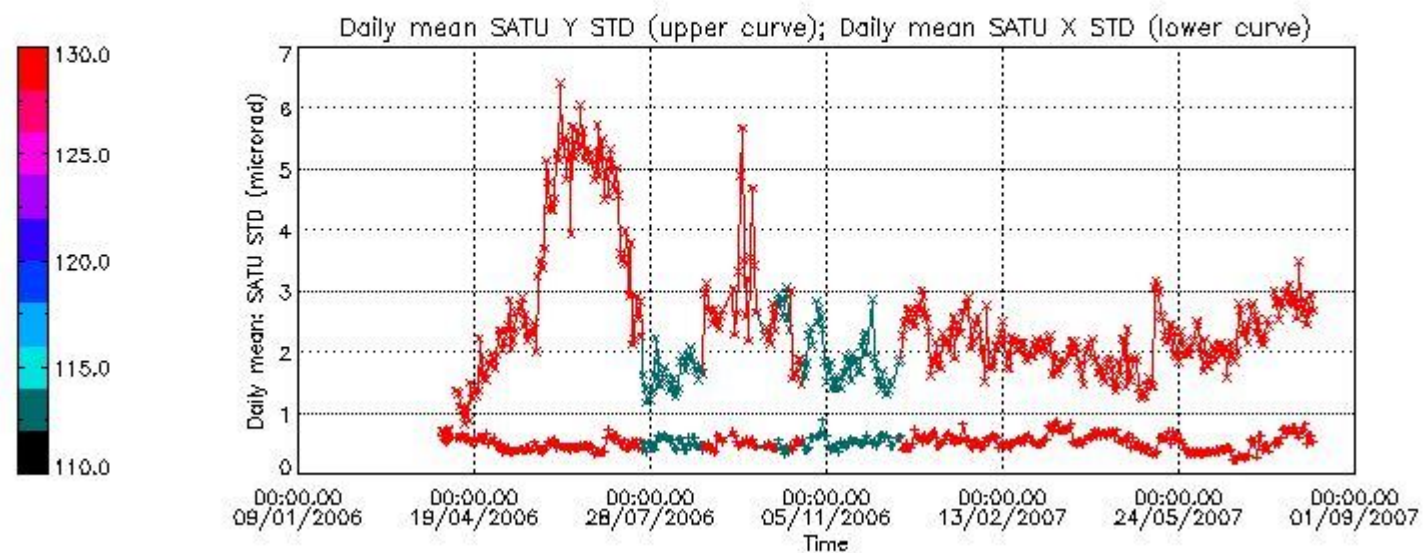
Number of data:	15750.	15750.	18700.	18700.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

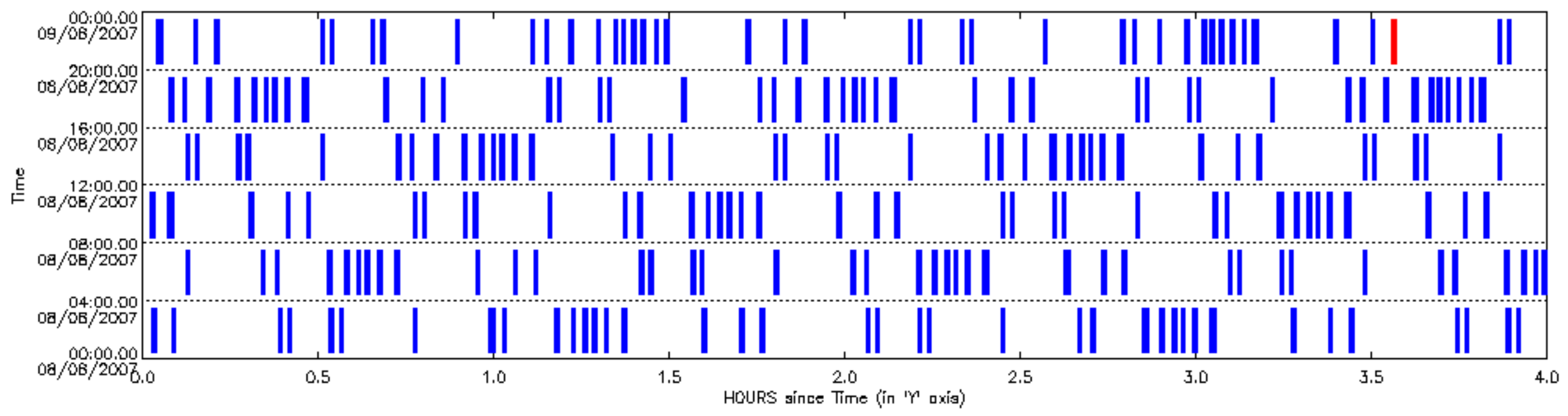
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

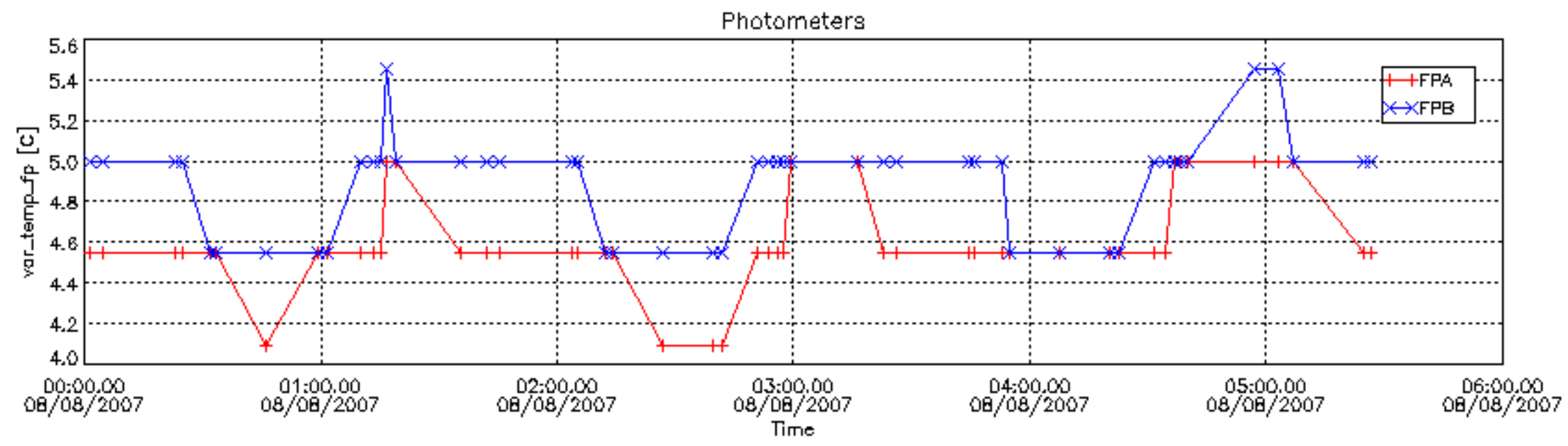
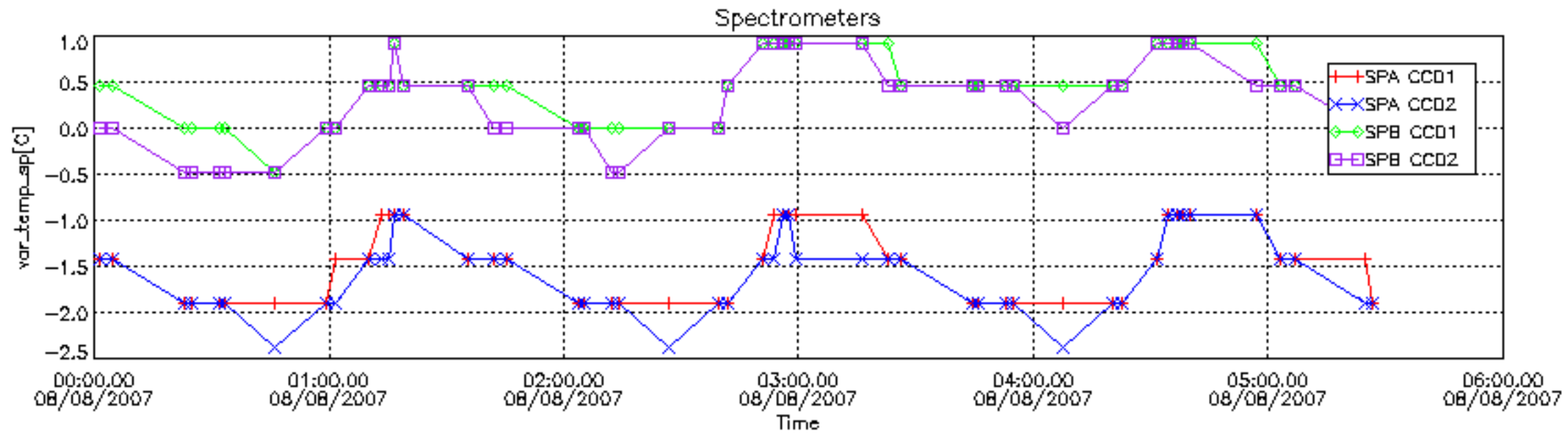


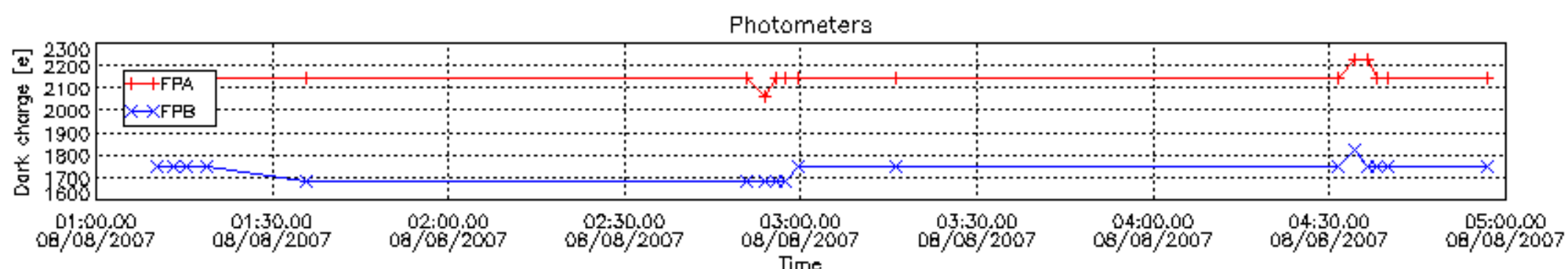
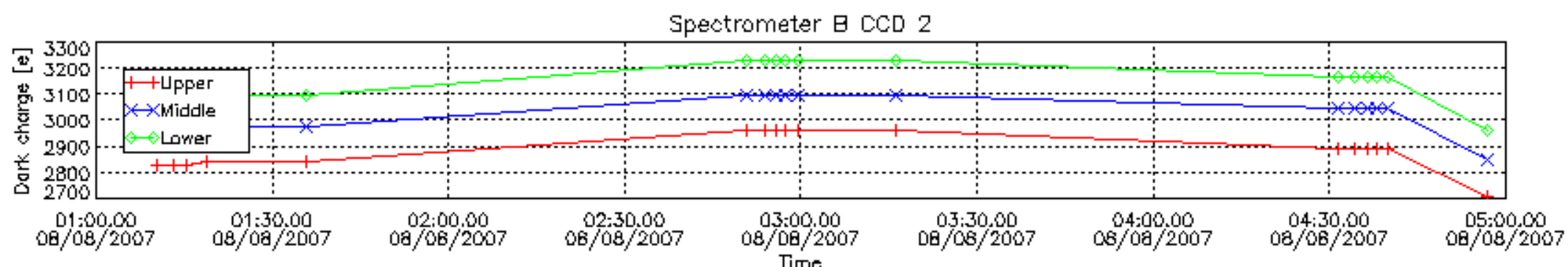
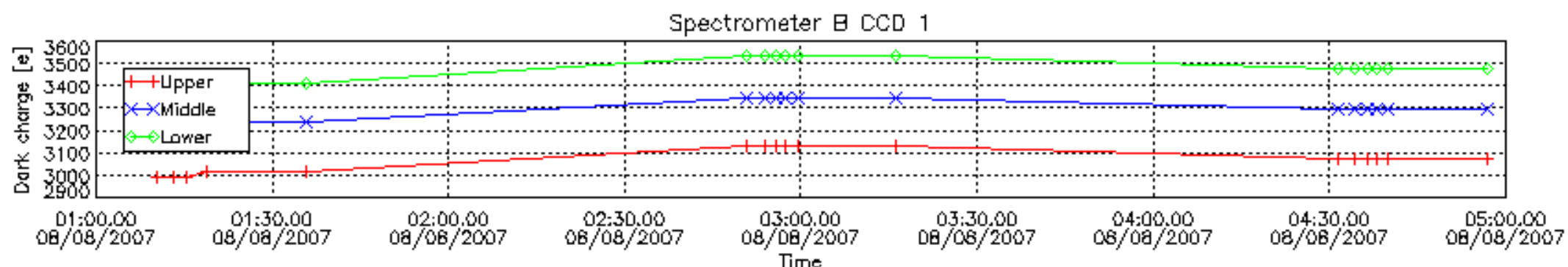
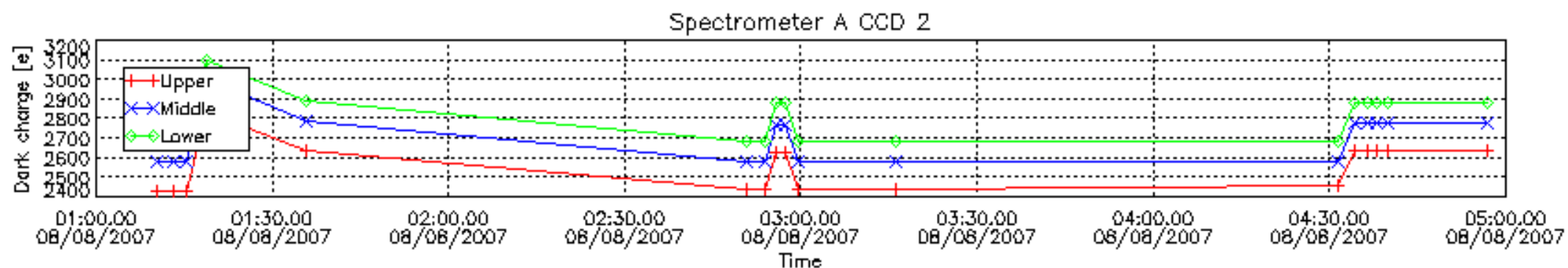
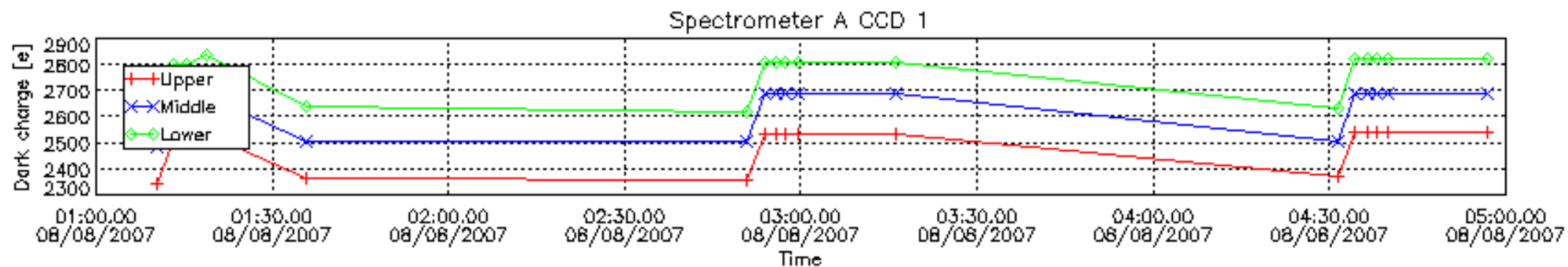
8. Auxiliary Data Files used for the production reported in section 2.4

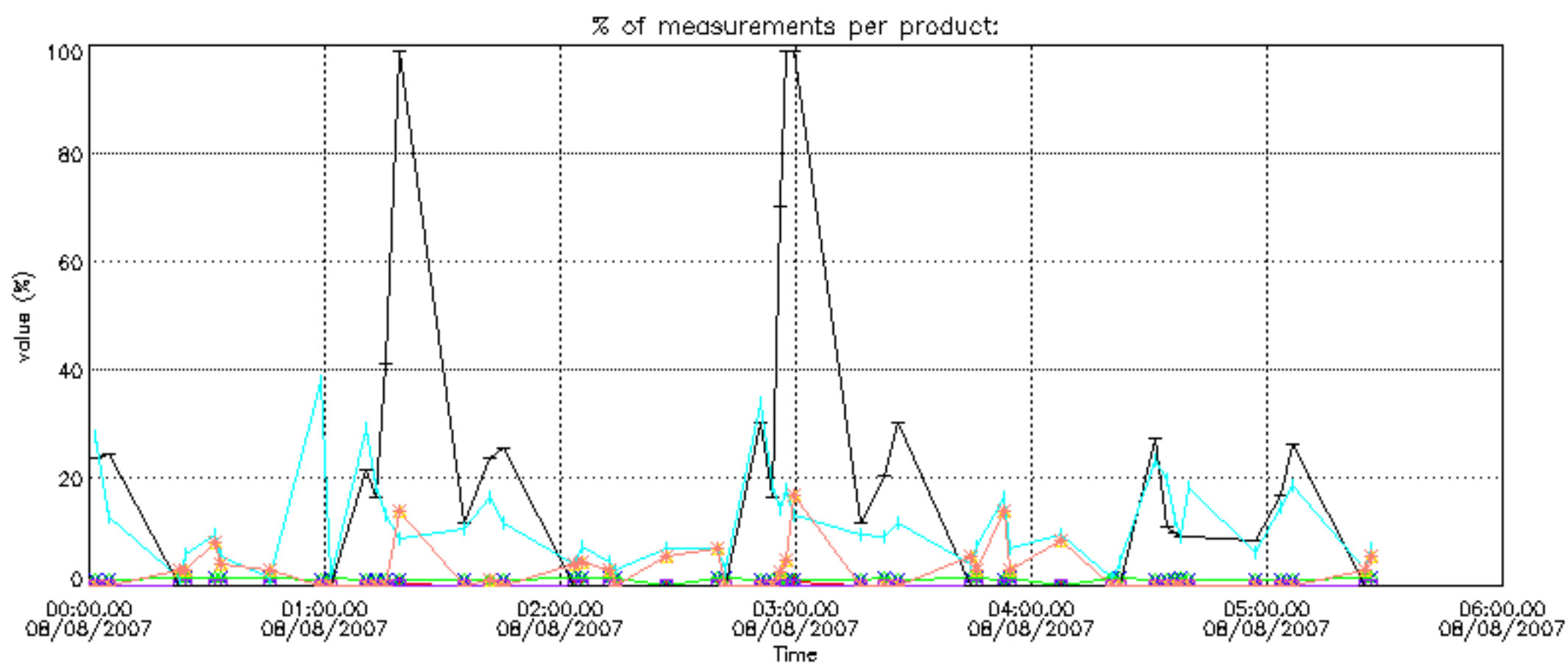
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	08-AUG-2007 00:01:27
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070803_145735_20070802_000000_20100101_000000	1	08-AUG-2007 00:01:27
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	08-AUG-2007 00:01:27
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-AUG-2007 00:01:27
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	08-AUG-2007 00:01:27
ECMWF_FILE	AUX_ECF_AXNECM20070807_061112_20070807_210000_20070808_090000	1	08-AUG-2007 00:01:27
ECMWF_FILE	AUX_ECF_AXNECM20070807_181111_20070808_030000_20070808_150000	38	08-AUG-2007 04:20:21
OPTIONAL_ECMWF_FILE	MISSING	1	08-AUG-2007 00:01:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070807_215115_000060572060_00315_28425_3923.N1	1	08-AUG-2007 00:01:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070807_233212_000057382060_00316_28426_3924.N1	13	08-AUG-2007 01:16:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070808_022732_000057382060_00318_28428_3926.N1	23	08-AUG-2007 02:39:45

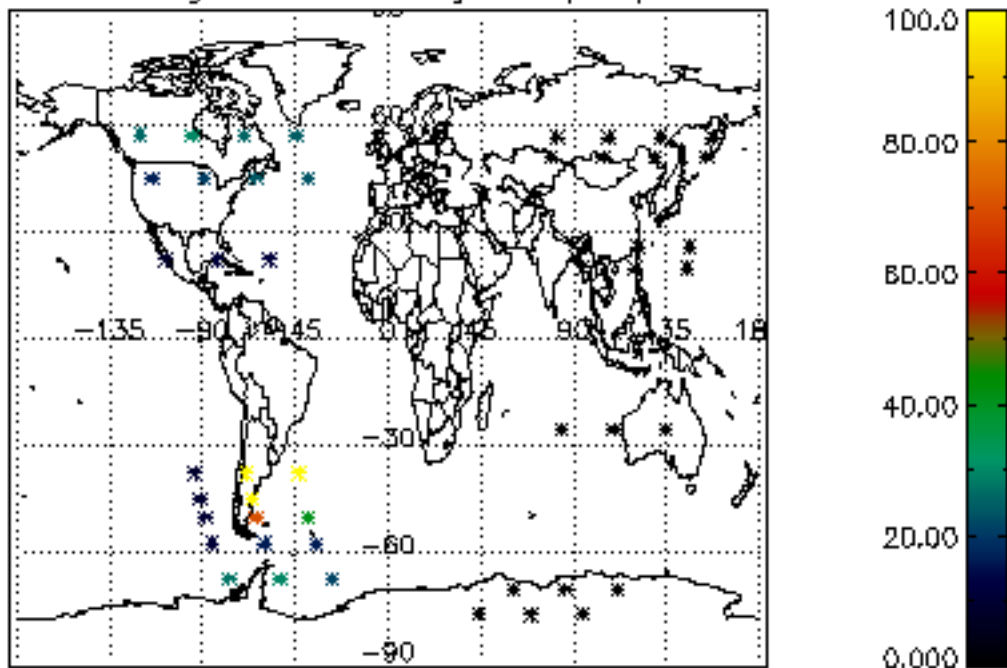




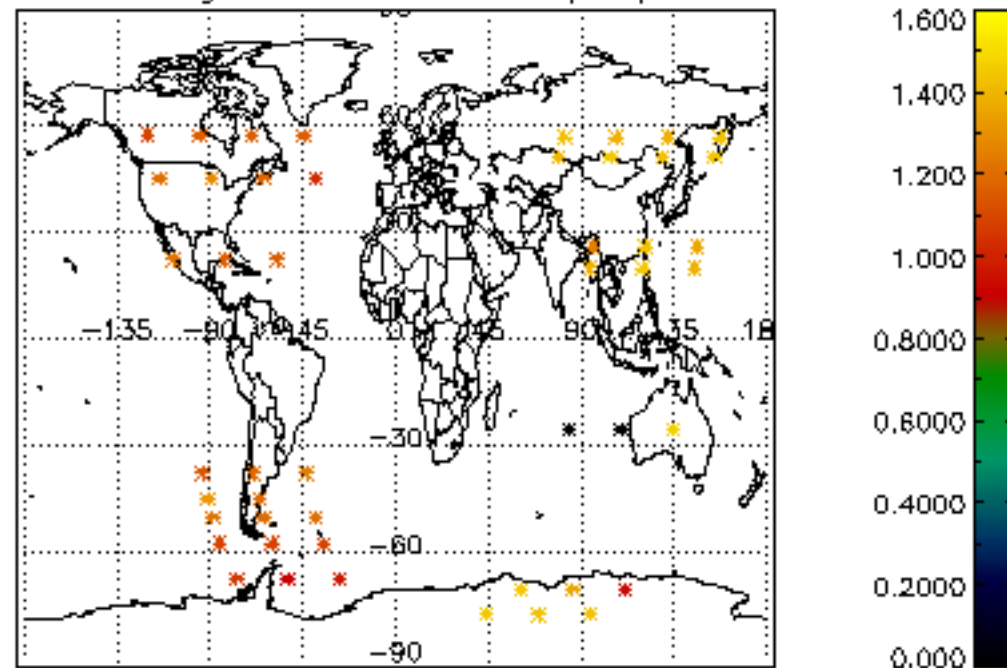




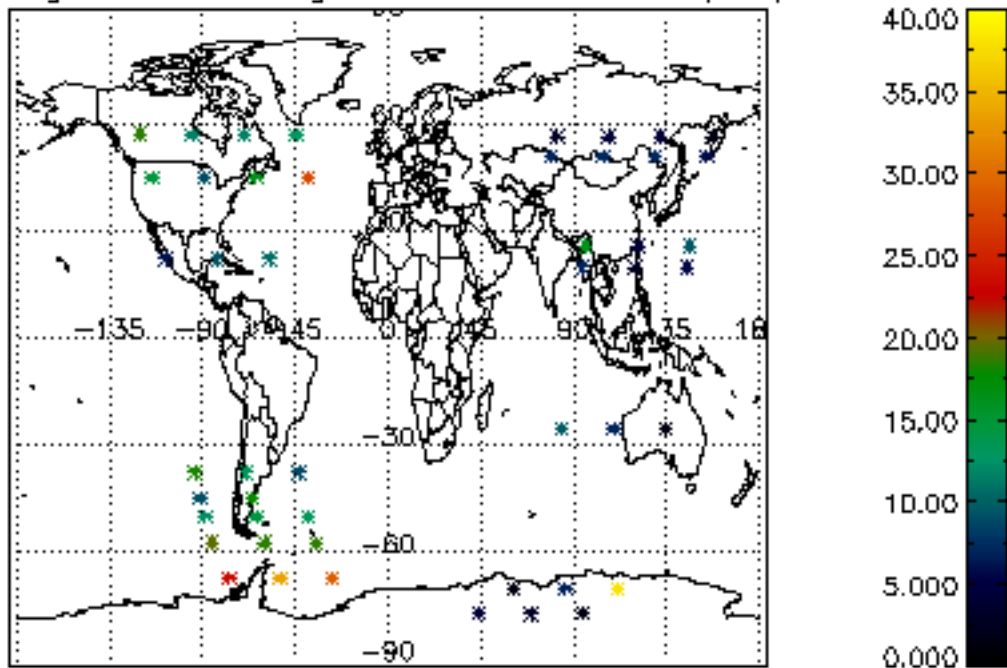
Percentage of cosmic ray hits per profile



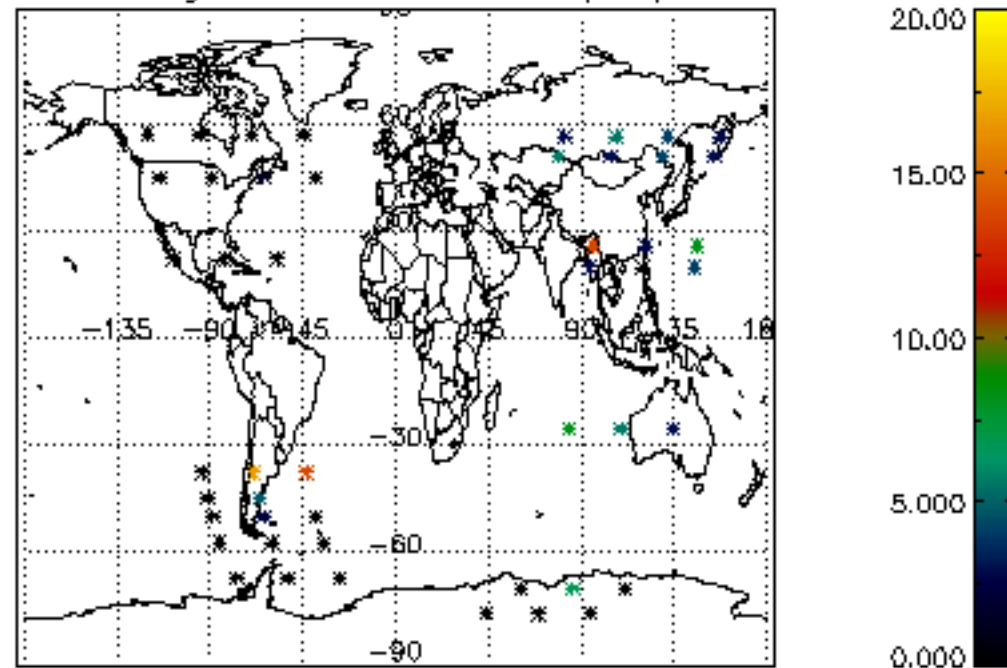
Percentage of datation errors per profile



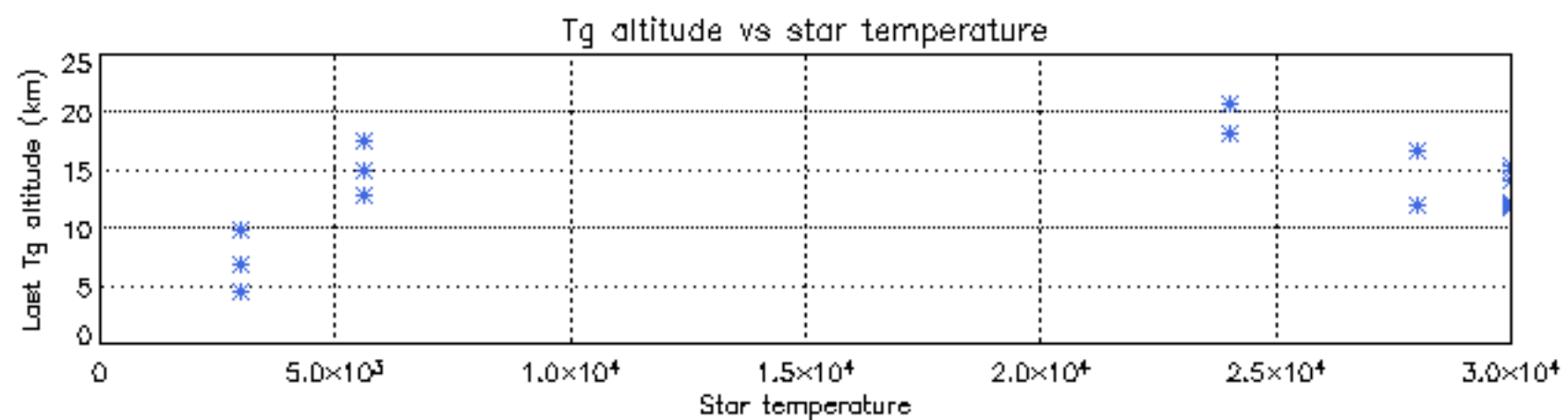
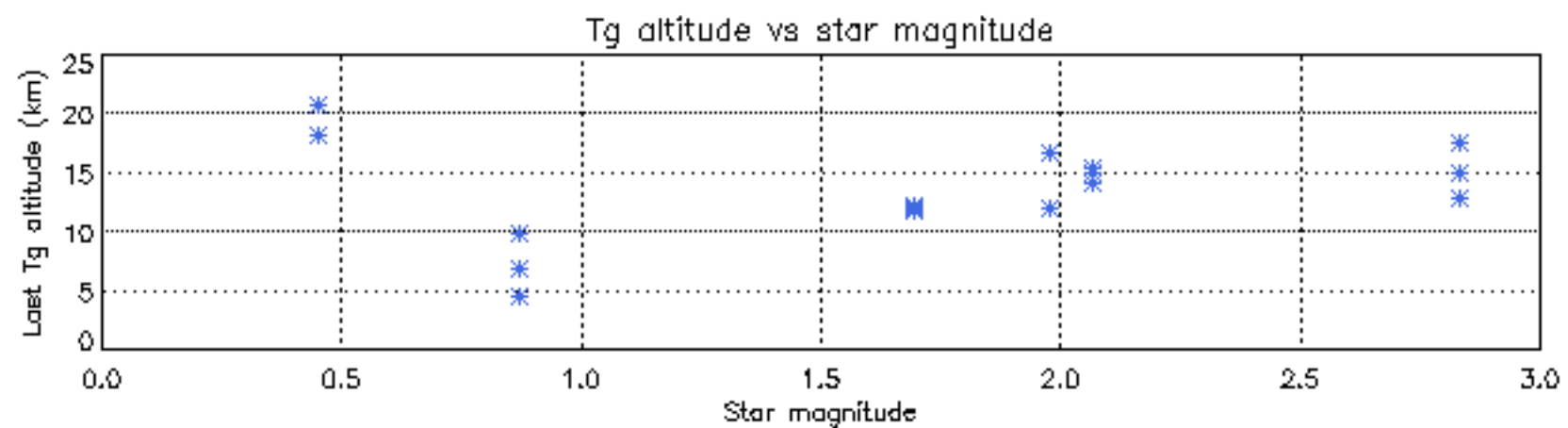
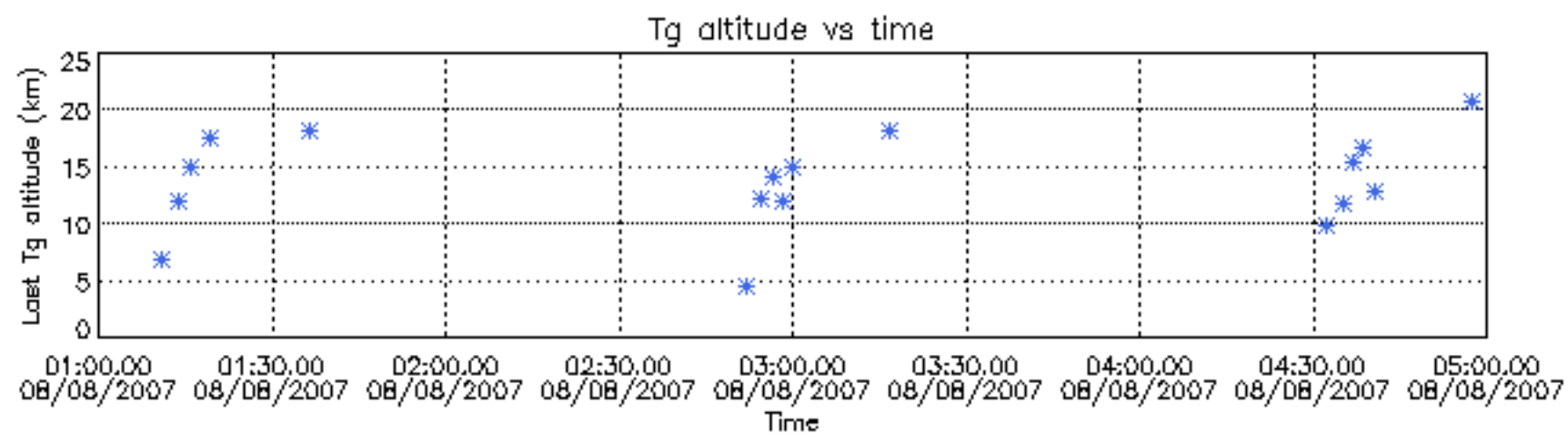
Percentage of star falling outside central band per profile



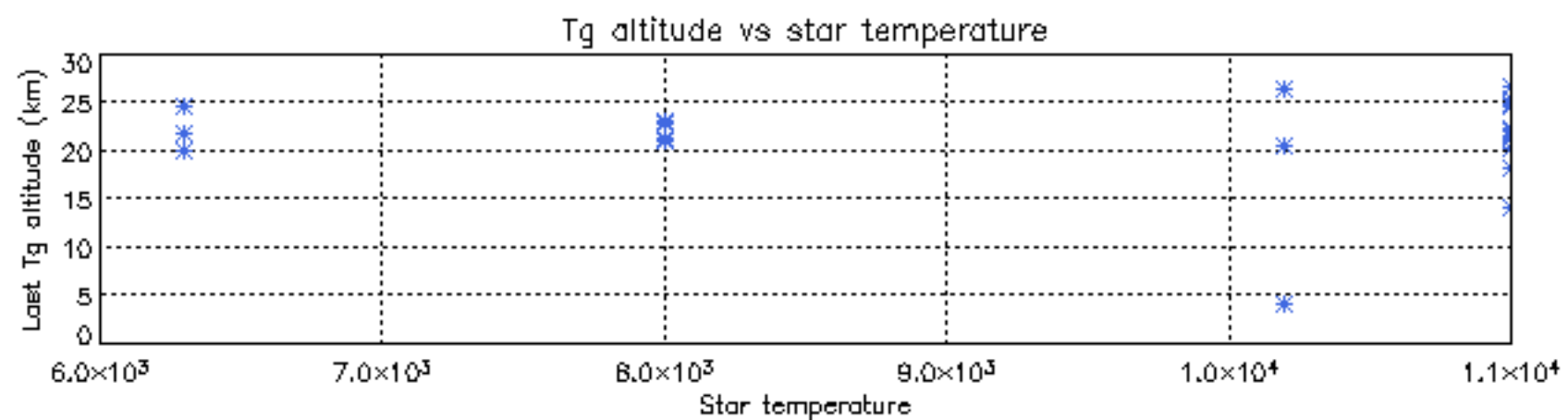
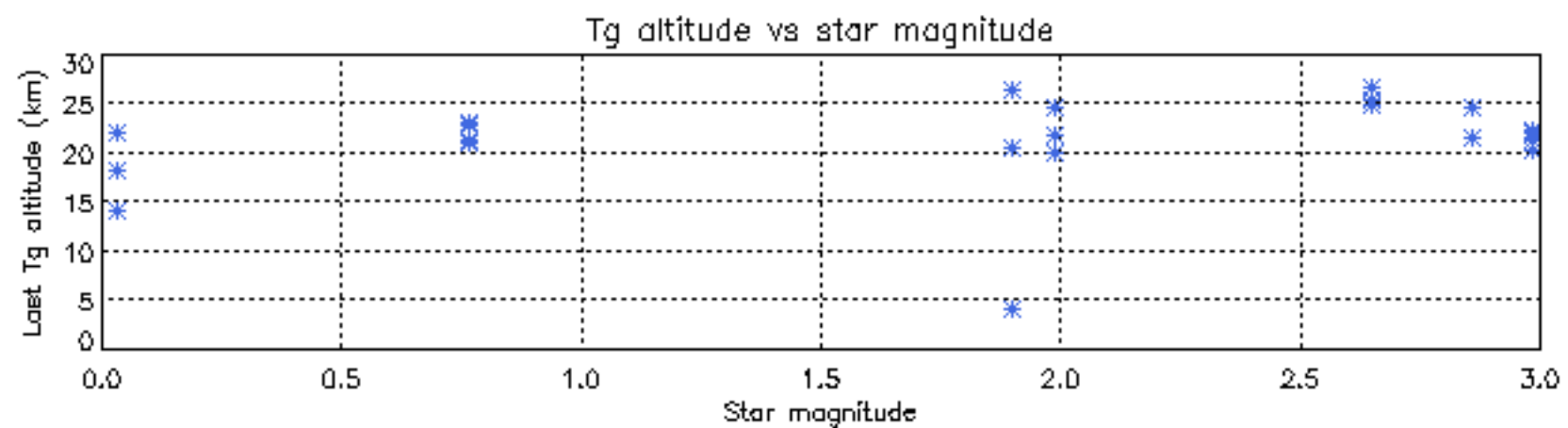
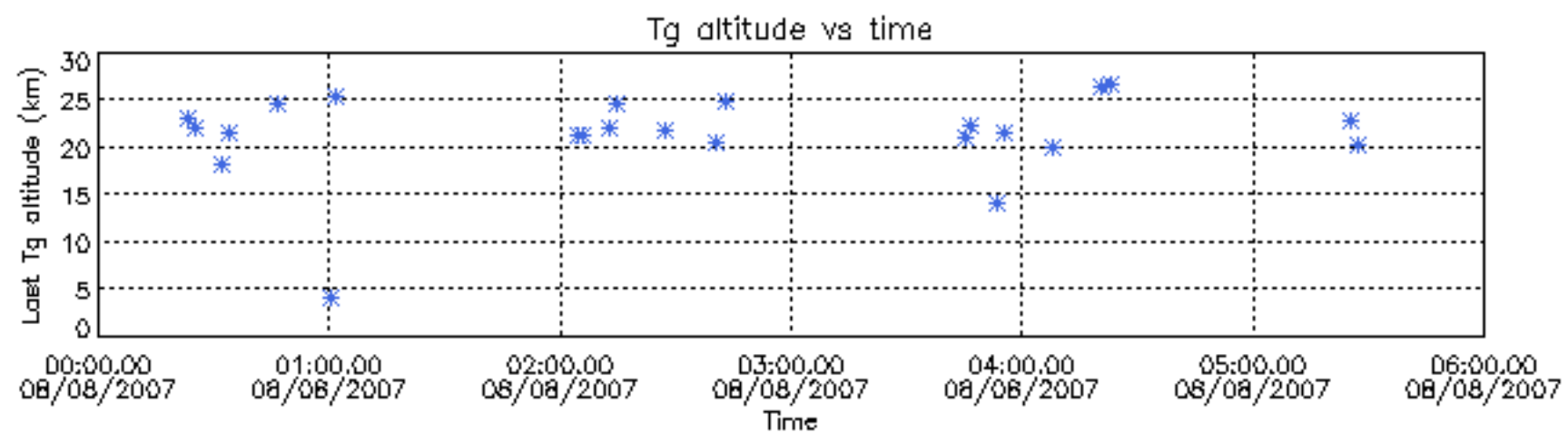
Percentage of saturation errors per profile

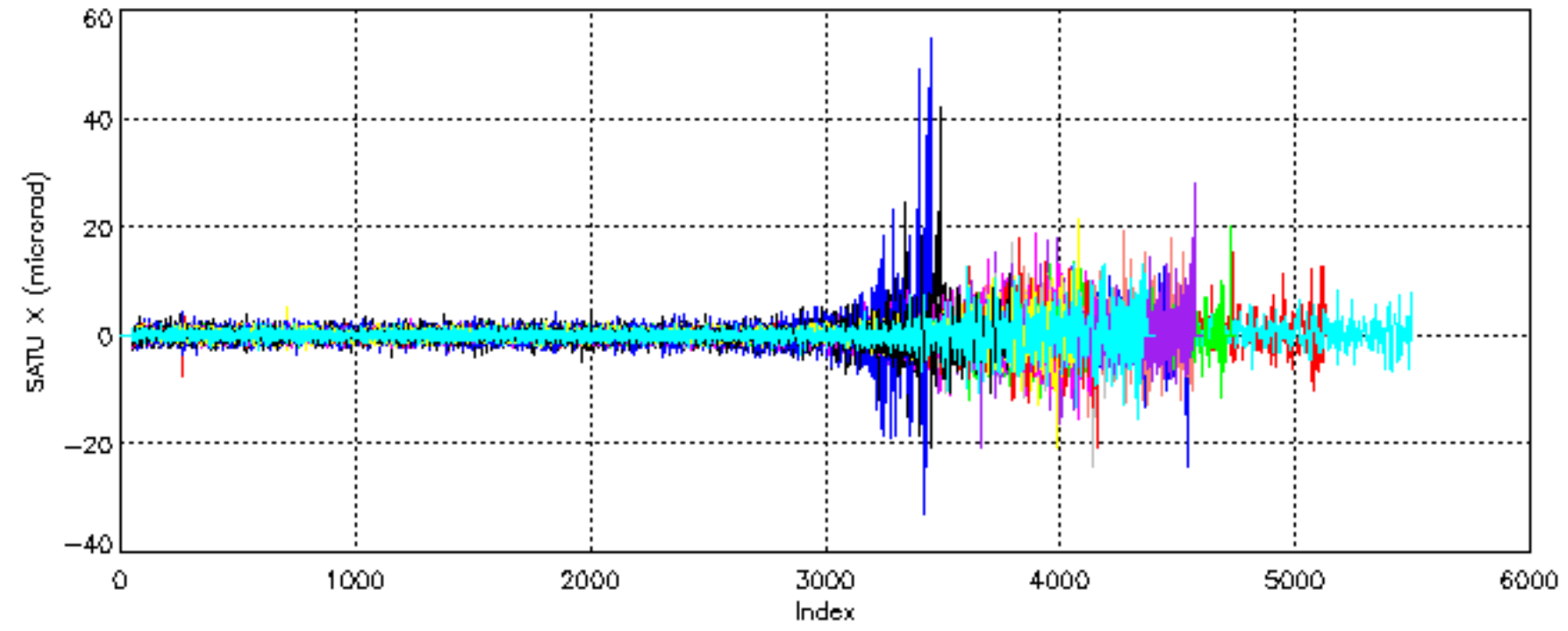


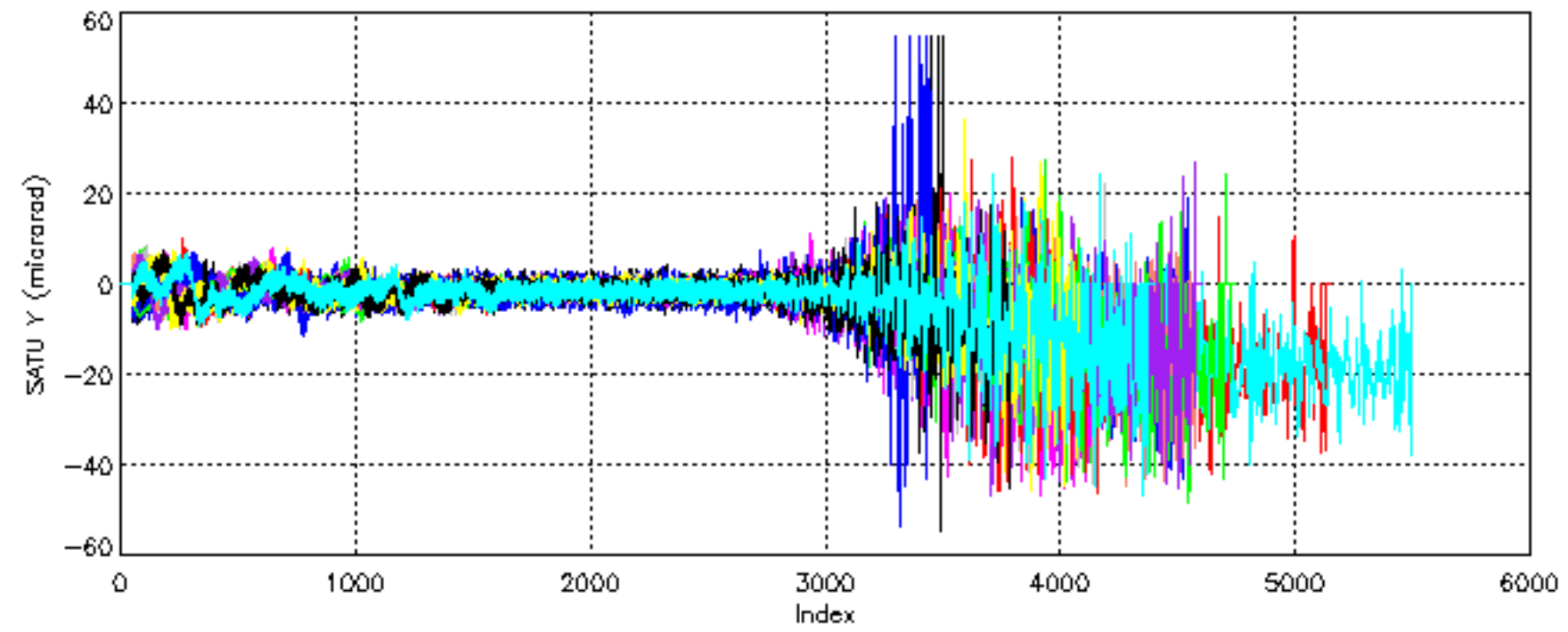
Tangent altitude at which the star is lost

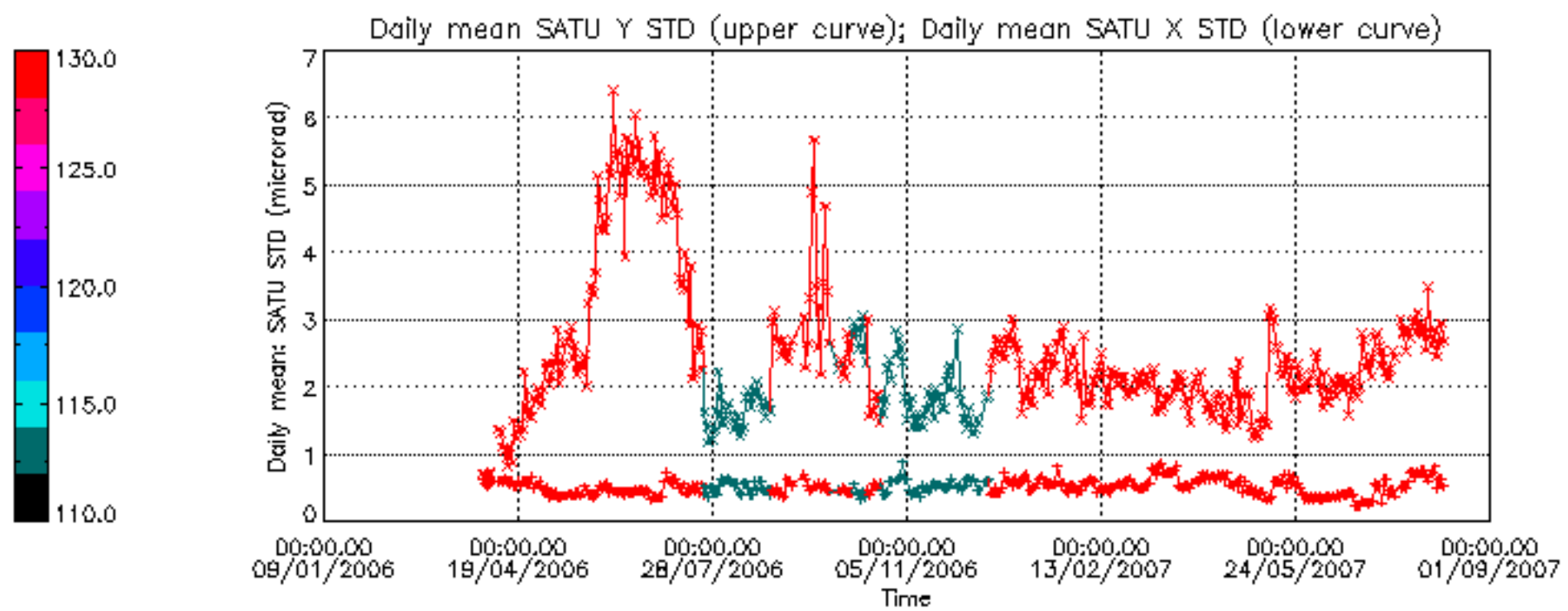


Tangent altitude at which the star is lost









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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
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 4; -1177.7; 01-AUG-2007 04:51:08; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;28329
 5; -1012.9; 01-AUG-2007 04:53:53; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;28329
 6; -865.0; 01-AUG-2007 04:56:21; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;28329
 7; -781.2; 01-AUG-2007 04:57:44; Dark ; 41.0; 47; 2Bet CMa ; 1.98; 28000;occ; 82; 0;28329
 8; -680.0; 01-AUG-2007 04:59:26; Dark ; 39.0; 139; 9Bet Lep ; 2.83; 5600;occ; 78; 0;28329
 9; -580.0; 01-AUG-2007 05:01:06; Dark ; 37.0; 177; 1Zet CMa ; 3.02; 26000;occ; 74; 0;28329
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 11; 268.4; 01-AUG-2007 05:15:14; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;28330
 12; 425.1; 01-AUG-2007 05:17:51; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;28330
 13; 716.8; 01-AUG-2007 05:22:42; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;28330
 14; 910.5; 01-AUG-2007 05:25:56; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;28330
 15; 1412.8; 01-AUG-2007 05:34:18; Dark ; 47.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 94; 0;28330
 16; 1555.7; 01-AUG-2007 05:36:41; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;28330
 17; 2145.1; 01-AUG-2007 05:46:31; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;28330
 18; 2569.7; 01-AUG-2007 05:53:35; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;28330
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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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1; 1414.3; 01-AUG-2007 20:39:43; Dark ; 40.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 81; 0;28339
 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
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 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
 14; 3441.0; 02-AUG-2007 00:34:42; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;28341
 15; 4213.3; 02-AUG-2007 00:47:34; Bright; 46.5; 42; 34Bet Aur ; 1.90; 10200;occ; 93; 0;28341
 16; 4347.7; 02-AUG-2007 00:49:48; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;28341
 17; 4641.1; 02-AUG-2007 00:54:42; Dark ; 41.0; 176; 23Zet Tau ; 3.02; 22000;occ; 82; 0;28341
 18; 4861.2; 02-AUG-2007 00:58:22; Dark ; 39.0; 14; 58Alp Ori ; 0.87; 3000;occ; 78; 0;28341
 19; 5027.1; 02-AUG-2007 01:01:08; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;28341
 20; 5153.9; 02-AUG-2007 01:03:15; Dark ; 41.0; 56; 53Kap Ori ; 2.07; 30000;occ; 82; 0;28341
 21; 5257.0; 02-AUG-2007 01:04:58; Dark ; 40.5; 47; 2Bet CMA ; 1.98; 28000;occ; 81; 0;28341
 22; 5360.6; 02-AUG-2007 01:06:41; Dark ; 7.5; 139; 9Bet Lep ; 2.83; 5600;occ; 15; 0;28341

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 9; -579.8; 01-AUG-2007 06:41:42; Dark ; 38.0; 177; 1Zet CMA ; 3.02; 26000;occ; 76; 0;28330
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 3; 717.7; 01-AUG-2007 08:43:55; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;28332
 4; 911.0; 01-AUG-2007 08:47:08; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;28332
 5; 1413.2; 01-AUG-2007 08:55:31; Dark ; 39.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 79; 0;28332
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 19; 6947.2; 01-AUG-2007 10:27:45; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;28332
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11; 4640.0; 01-AUG-2007 16:31:41; Dark ; 40.0; 176; 23Zet Tau ; 3.02; 22000;occ; 80; 0;28336
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 9; 4657.0; 06-AUG-2007 18:55:41; Dark ; 42.0; 176; 23Zet Tau ; 3.02; 22000;occ; 84; 0;28409
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 2; 2595.6; 18-AUG-2007 10:21:19; Bright; 36.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 73; 0;28576
 3; 2676.0; 18-AUG-2007 10:22:39; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;28576
 4; 3009.8; 18-AUG-2007 10:28:13; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;28576
 5; 3437.8; 18-AUG-2007 10:35:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28576
 6; 4220.7; 18-AUG-2007 10:48:24; Bright; 50.5; 42; 34Bet Aur ; 1.90; 10200;occ; 101; 0;28576
 7; 4632.6; 18-AUG-2007 10:55:16; Dark ; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0;28576
 8; 4728.2; 18-AUG-2007 10:56:52; Dark ; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;28576
 9; 5278.4; 18-AUG-2007 11:06:02; Dark ; 46.0; 1; 9Alp CMA ; -1.44; 11000;occ; 92; 0;28576
 10; 5433.4; 18-AUG-2007 11:08:37; Dark ; 45.0; 101; 11Alp Lep ; 2.58; 7000;occ; 90; 0;28576
 11; 5527.7; 18-AUG-2007 11:10:11; Dark ; 40.0; 177; 1Zet CMA ; 3.02; 26000;occ; 80; 0;28576
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 13; 6510.5; 18-AUG-2007 11:26:34; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;28576
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 3; 2675.8; 18-AUG-2007 12:03:15; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;28577
 4; 3009.7; 18-AUG-2007 12:08:49; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;28577
 5; 3437.8; 18-AUG-2007 12:15:57; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28577
 6; 4220.9; 18-AUG-2007 12:29:00; Bright; 41.0; 42; 34Bet Aur ; 1.90; 10200;occ; 82; 0;28577
 7; 4632.8; 18-AUG-2007 12:35:52; Dark ; 48.0; 151; 13Mu Gem ; 2.89; 3000;occ; 96; 0;28577
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 9; 5278.7; 18-AUG-2007 12:46:38; Dark ; 45.5; 1; 9Alp CMA ; -1.44; 11000;occ; 91; 0;28577
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 15; 7061.1; 18-AUG-2007 13:16:20; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;28577
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 3; 2595.5; 18-AUG-2007 13:42:31; Bright; 35.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 70; 0;28578
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 5; 3009.5; 18-AUG-2007 13:49:25; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;28578
 6; 3437.8; 18-AUG-2007 13:56:33; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;28578
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 12; 5528.7; 18-AUG-2007 14:31:24; Dark ; 38.0; 177; 1Zet CMA ; 3.02; 26000;occ; 76; 0;28578
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7; 3437.8; 18-AUG-2007 17:17:45; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28580
8; 4570.8; 18-AUG-2007 17:36:38; Bright; 37.5; 170; 27Eps Gem ; 3.00; 9700;occ; 75; 0;28580
9; 4729.5; 18-AUG-2007 17:39:16; Dark ; 44.5; 44; 24Gam Gem ; 1.93; 11000;occ; 89; 0;28580
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12; 5462.6; 18-AUG-2007 17:51:30; Dark ; 39.5; 23; 21Eps CMA ; 1.50; 26000;occ; 79; 0;28580
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4; 2497.3; 18-AUG-2007 18:42:40; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;28581
5; 2595.3; 18-AUG-2007 18:44:18; Bright; 38.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 77; 0;28581
6; 2676.1; 18-AUG-2007 18:45:39; Bright; 33.5; 144; 18Del Cyg ; 2.86; 11000;occ; 67; 0;28581
7; 3008.4; 18-AUG-2007 18:51:11; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;28581
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5; 479.9; 19-AUG-2007 00:51:27; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;28585
6; 812.5; 19-AUG-2007 00:56:59; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;28585
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 9; 4440.4; 26-AUG-2007 11:40:55; Bright; 35.0; 24; 66Alp Gem ; 1.58; 10200;occ; 70; 0;28691

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16;	5585.7;	26-AUG-2007	12:00:00;	Dark	;	40.0;	177;	1Zet	CMA	;	3.02;	26000;	occ;	80;	0;	28691
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9;	3436.0;	26-AUG-2007	13:04:46;	Bright;	;	36.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	72;	0;	28692
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11;	4661.7;	26-AUG-2007	13:25:12;	Dark	;	51.0;	151;	13Mu	Gem	;	2.89;	3000;	occ;	102;	0;	28692
12;	4762.1;	26-AUG-2007	13:26:53;	Dark	;	45.5;	44;	24Gam	Gem	;	1.93;	11000;	occ;	91;	0;	28692
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17;	5587.0;	26-AUG-2007	15:21:13;	Dark	;	41.0;	177;	1Zet	CMA	;	3.02;	26000;	occ;	82;	0;	28693
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19;	6588.1;	26-AUG-2007	15:37:54;	Dark	;	45.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	91;	0;	28693
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21;	7340.9;	26-AUG-2007	15:50:27;	Dark	;	23.5;	18;	24Alp	PsA	;	1.17;	9700;	occ;	47;	0;	28693
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6; 2979.0; 30-AUG-2007 09:10:05; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28747
7; 3435.2; 30-AUG-2007 09:17:41; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;28747
8; 4448.5; 30-AUG-2007 09:34:35; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28747
9; 4605.1; 30-AUG-2007 09:37:11; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28747
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13; 5436.8; 30-AUG-2007 09:51:03; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;28747
14; 5525.1; 30-AUG-2007 09:52:31; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;28747
15; 5620.3; 30-AUG-2007 09:54:07; Dark ; 42.5; 177; 1Zet CMa ; 3.02; 26000;occ; 85; 0;28747
16; 5716.5; 30-AUG-2007 09:55:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28747
17; 6547.1; 30-AUG-2007 10:09:33; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28747
18; 6622.2; 30-AUG-2007 10:10:48; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28747
19; 6980.2; 30-AUG-2007 10:16:46; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;28747
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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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
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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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3; 1896.7; 30-AUG-2007 12:13:15; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28749
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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
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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
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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
20; 6981.3; 30-AUG-2007 13:37:59; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;28749
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

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
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
11; 4782.3; 30-AUG-2007 14:41:56; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;28750
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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16; 5622.3; 30-AUG-2007 14:55:56; Dark ; 41.0; 177; 1Zet CMa ; 3.02; 26000;occ; 82; 0;28750
17; 5718.4; 30-AUG-2007 14:57:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28750
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19; 6624.1; 30-AUG-2007 15:12:38; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28750
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21; 7078.5; 30-AUG-2007 15:20:12; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 0;28750

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2; 1616.3; 30-AUG-2007 15:29:46; Dark ; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;28751
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
7; 2677.6; 30-AUG-2007 15:47:27; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28751
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
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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
14; 5359.6; 30-AUG-2007 18:12:45; Dark ; 51.5; 1; 9Alp CMa ; -1.44; 11000;occ; 103; 0;28752
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16; 5527.6; 30-AUG-2007 18:15:33; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;28752
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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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6; 2077.0; 30-AUG-2007 18:58:39; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28753
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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
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
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21; 6625.9; 30-AUG-2007 20:14:28; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;28753
22; 6983.9; 30-AUG-2007 20:20:26; Dark ; 8.0; 84; Alp Phe ; 2.40; 4500;occ; 16; 0;28753
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