

GOMOS Daily Report 13-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	20AUG2007 12:12:06
Data source version	GOMOS/5.00
Start time of products	13-08-2007 (13AUG2007 00:00:00)
Stop time of products	14-08-2007 (14AUG2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	0

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

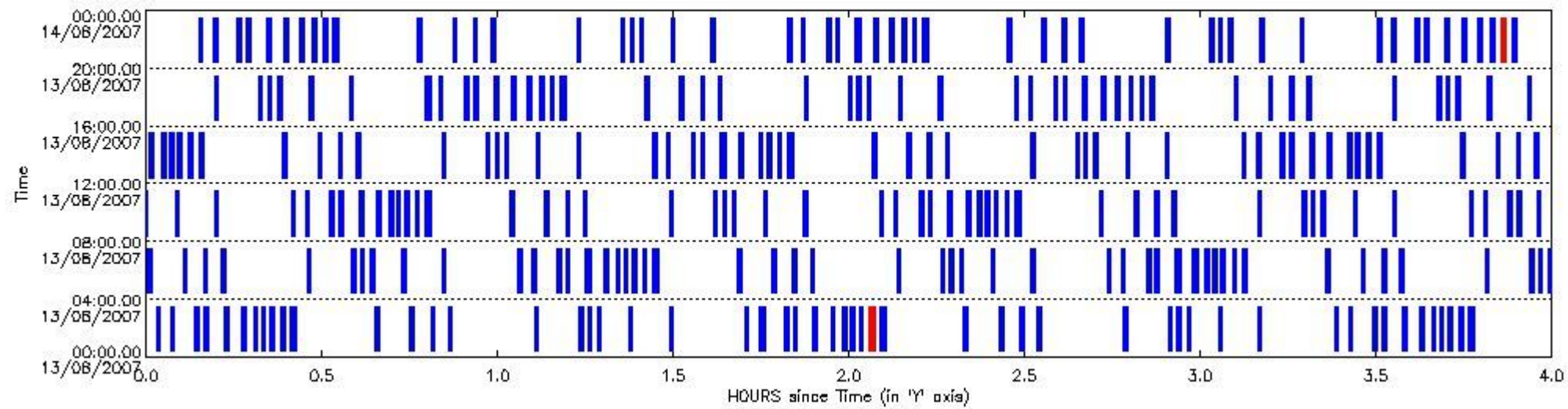
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

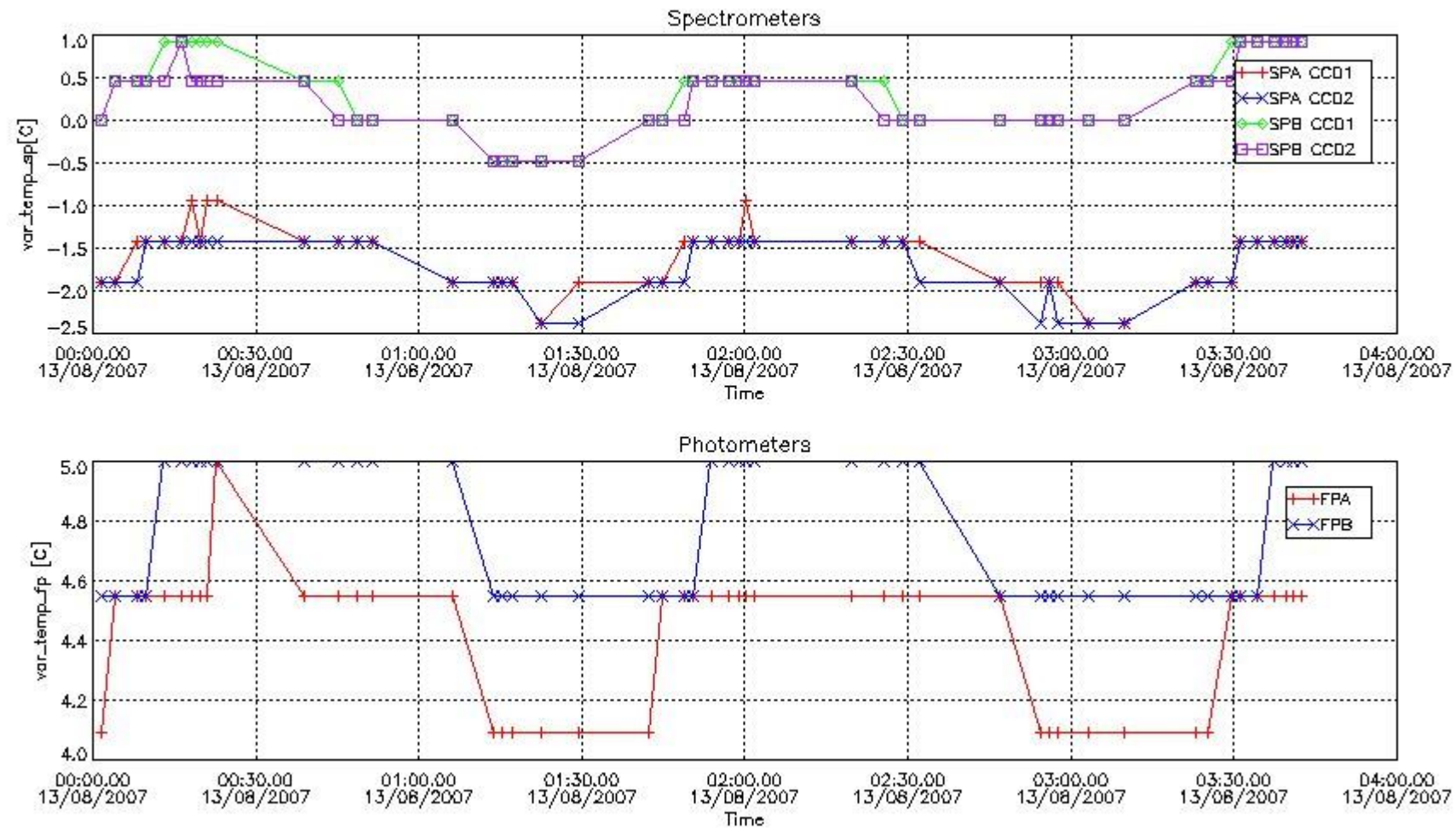
UTC start time	Star name	Star ID	Orbit
13-AUG-2007 02:03:27	1ZetCMa	177	28499
13-AUG-2007 23:51:18	1ZetCMa	177	28512

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_1PNPDE20070813_000142_000000372060_00388_28498_5250.N1	13-AUG-2007 00:01:42	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	28498	No
2	GOM_TRA_1PNPDE20070813_000404_000000352060_00388_28498_5251.N1	13-AUG-2007 00:04:04	Bright	35.000	107	37The Aur	2.6490	11000.	70	28498	No
3	GOM_TRA_1PNPDE20070813_000817_000000422060_00388_28498_5252.N1	13-AUG-2007 00:08:17	Bright	41.500	151	13Mu Gem	2.8900	3000.0	83	28498	No
4	GOM_TRA_1PNPDE20070813_000951_000000412060_00388_28498_5253.N1	13-AUG-2007 00:09:51	Twilight	41.000	44	24Gam Gem	1.9280	11000.	82	28498	No
5	GOM_TRA_1PNPDE20070813_001312_000000562060_00388_28498_5254.N1	13-AUG-2007 00:13:12	Dark	55.500	14	58Alp Ori	0.87000	3000.0	111	28498	No
6	GOM_TRA_1PNPDE20070813_001616_000000472060_00388_28498_5255.N1	13-AUG-2007 00:16:16	Dark	47.000	30	46Eps Ori	1.6940	30000.	94	28498	No
7	GOM_TRA_1PNPDE20070813_001819_000000442060_00388_28498_5256.N1	13-AUG-2007 00:18:19	Dark	43.500	56	53Kap Ori	2.0650	30000.	87	28498	No
8	GOM_TRA_1PNPDE20070813_001941_000000402060_00388_28498_5390.N1	13-AUG-2007 00:19:41	Dark	39.500	47	2Bet CMa	1.9760	28000.	79	28498	No
9	GOM_TRA_1PNPDE20070813_002103_000000452060_00388_28498_5391.N1	13-AUG-2007 00:21:03	Dark	45.000	101	11Alp Lep	2.5820	7000.0	90	28498	No

10	GOM_TRA_1PNPDE20070813_002259_000000392060_00388_28498_5392.N1	13-AUG-2007 00:22:59	Dark	39.000	177	1Zet CMa	3.0220	26000.	78	28498	No
11	GOM_TRA_1PNPDE20070813_003858_000000442060_00389_28499_5393.N1	13-AUG-2007 00:38:58	Dark	44.000	9	Alp Eri	0.45300	24000.	88	28499	No
12	GOM_TRA_1PNPDE20070813_004501_000000382060_00389_28499_5394.N1	13-AUG-2007 00:45:01	Straylight	38.000	148	Alp Tuc	2.8780	4100.0	76	28499	No
13	GOM_TRA_1PNPDE20070813_004832_000000422060_00389_28499_5395.N1	13-AUG-2007 00:48:32	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	28499	No
14	GOM_TRA_1PNPDE20070813_005133_000000422060_00389_28499_5396.N1	13-AUG-2007 00:51:33	Straylight	41.500	172	Gam Gru	3.0030	13100.	83	28499	No
15	GOM_TRA_1PNPDE20070813_010617_000000372060_00389_28499_5397.N1	13-AUG-2007 01:06:17	Bright	37.000	11	53Alp Aql	0.76500	8000.0	74	28499	No
16	GOM_TRA_1PNPDE20070813_011352_000000392060_00389_28499_5398.N1	13-AUG-2007 01:13:52	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	28499	No
17	GOM_TRA_1PNPDE20070813_011522_000000362060_00389_28499_5399.N1	13-AUG-2007 01:15:22	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	28499	No
18	GOM_TRA_1PNPDE20070813_011704_000000382060_00389_28499_5400.N1	13-AUG-2007 01:17:04	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	28499	No
19	GOM_TRA_1PNPDE20070813_012228_000000352060_00389_28499_5401.N1	13-AUG-2007 01:22:28	Bright	34.500	89	5Alp Cep	2.4510	8000.0	69	28499	No
20	GOM_TRA_1PNPDE20070813_012916_000000362060_00389_28499_5402.N1	13-AUG-2007 01:29:16	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	28499	No
21	GOM_TRA_1PNPDE20070813_014218_000000362060_00389_28499_5403.N1	13-AUG-2007 01:42:18	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	28499	No
22	GOM_TRA_1PNPDE20070813_014440_000000562060_00389_28499_5404.N1	13-AUG-2007 01:44:40	Bright	56.000	107	37The Aur	2.6490	11000.	112	28499	No
23	GOM_TRA_1PNPDE20070813_014853_000000472060_00389_28499_5405.N1	13-AUG-2007 01:48:53	Bright	46.500	151	13Mu Gem	2.8900	3000.0	93	28499	No
24	GOM_TRA_1PNPDE20070813_015026_000000422060_00389_28499_5406.N1	13-AUG-2007 01:50:26	Tw_i_and_stray	41.500	44	24Gam Gem	1.9280	11000.	83	28499	No
25	GOM_TRA_1PNPDE20070813_015349_000000522060_00389_28499_5407.N1	13-AUG-2007 01:53:49	Dark	52.000	14	58Alp Ori	0.87000	3000.0	104	28499	No
26	GOM_TRA_1PNPDE20070813_015652_000000412060_00389_28499_5408.N1	13-AUG-2007 01:56:52	Dark	41.000	30	46Eps Ori	1.6940	30000.	82	28499	No
27	GOM_TRA_1PNPDE20070813_015856_000000442060_00389_28499_5532.N1	13-AUG-2007 01:58:56	Dark	43.500	56	53Kap Ori	2.0650	30000.	87	28499	No
28	GOM_TRA_1PNPDE20070813_020017_000000372060_00389_28499_5533.N1	13-AUG-2007 02:00:17	Dark	36.500	47	2Bet CMa	1.9760	28000.	73	28499	No
29	GOM_TRA_1PNPDE20070813_020140_000000452060_00389_28499_5534.N1	13-AUG-2007 02:01:40	Dark	44.500	101	11Alp Lep	2.5820	7000.0	89	28499	No
30	GOM_TRA_1PNPDE20070813_021935_000000462060_00390_28500_5535.N1	13-AUG-2007 02:19:35	Dark	46.000	9	Alp Eri	0.45300	24000.	92	28500	No
31	GOM_TRA_1PNPDE20070813_022537_000000462060_00390_28500_5536.N1	13-AUG-2007 02:25:37	Straylight	46.000	148	Alp Tuc	2.8780	4100.0	92	28500	No
32	GOM_TRA_1PNPDE20070813_022909_000000422060_00390_28500_5537.N1	13-AUG-2007 02:29:09	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	28500	No
33	GOM_TRA_1PNPDE20070813_023209_000000422060_00390_28500_5538.N1	13-AUG-2007 02:32:09	Straylight	42.000	172	Gam Gru	3.0030	13100.	84	28500	No
34	GOM_TRA_1PNPDE20070813_024653_000000372060_00390_28500_5539.N1	13-AUG-2007 02:46:53	Bright	36.500	11	53Alp Aql	0.76500	8000.0	73	28500	No
35	GOM_TRA_1PNPDE20070813_025428_000000382060_00390_28500_5540.N1	13-AUG-2007 02:54:28	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	28500	No
36	GOM_TRA_1PNPDE20070813_025558_000000372060_00390_28500_5541.N1	13-AUG-2007 02:55:58	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	28500	No
37	GOM_TRA_1PNPDE20070813_025739_000000392060_00390_28500_5542.N1	13-AUG-2007 02:57:39	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	28500	No
38	GOM_TRA_1PNPDE20070813_030303_000000362060_00390_28500_5543.N1	13-AUG-2007 03:03:03	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	28500	No
39	GOM_TRA_1PNPDE20070813_030952_000000332060_00390_28500_5544.N1	13-AUG-2007 03:09:52	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28500	No
40	GOM_TRA_1PNPDE20070813_032254_000000372060_00390_28500_5694.N1	13-AUG-2007 03:22:54	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	28500	No
41	GOM_TRA_1PNPDE20070813_032516_000000432060_00390_28500_5695.N1	13-AUG-2007 03:25:16	Bright	43.000	107	37The Aur	2.6490	11000.	86	28500	No
42	GOM_TRA_1PNPDE20070813_032929_000000452060_00390_28500_5696.N1	13-AUG-2007 03:29:29	Bright	45.000	151	13Mu Gem	2.8900	3000.0	90	28500	No
43	GOM_TRA_1PNPDE20070813_033103_000000422060_00390_28500_5697.N1	13-AUG-2007 03:31:03	Tw_i_and_stray	42.000	44	24Gam Gem	1.9280	11000.	84	28500	No
44	GOM_TRA_1PNPDE20070813_033425_000000542060_00390_28500_5698.N1	13-AUG-2007 03:34:25	Dark	54.000	14	58Alp Ori	0.87000	3000.0	108	28500	No
45	GOM_TRA_1PNPDE20070813_033729_000000422060_00390_28500_5699.N1	13-AUG-2007 03:37:29	Dark	41.500	30	46Eps Ori	1.6940	30000.	83	28500	No
46	GOM_TRA_1PNPDE20070813_033932_000000422060_00390_28500_5700.N1	13-AUG-2007 03:39:32	Dark	41.500	56	53Kap Ori	2.0650	30000.	83	28500	No
47	GOM_TRA_1PNPDE20070813_034053_000000412060_00390_28500_5701.N1	13-AUG-2007 03:40:53	Dark	40.500	47	2Bet CMa	1.9760	28000.	81	28500	No
48	GOM_TRA_1PNPDE20070813_034217_000000452060_00390_28500_5702.N1	13-AUG-2007 03:42:17	Dark	44.500	101	11Alp Lep	2.5820	7000.0	89	28500	No

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



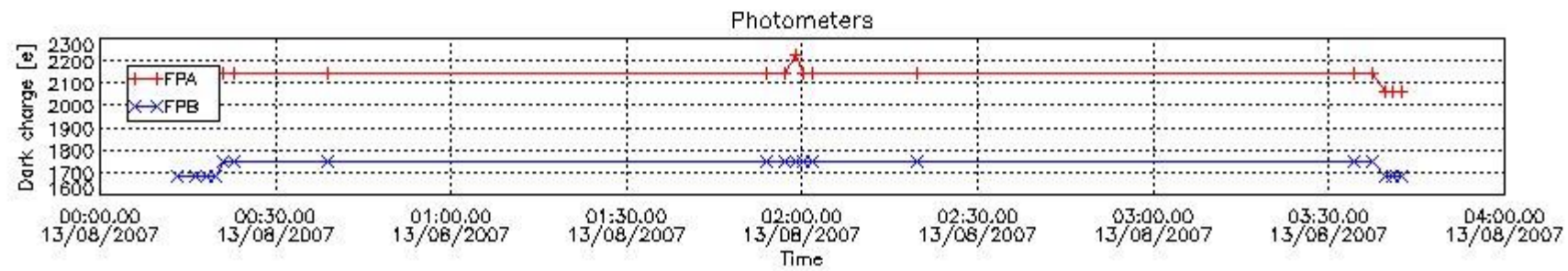
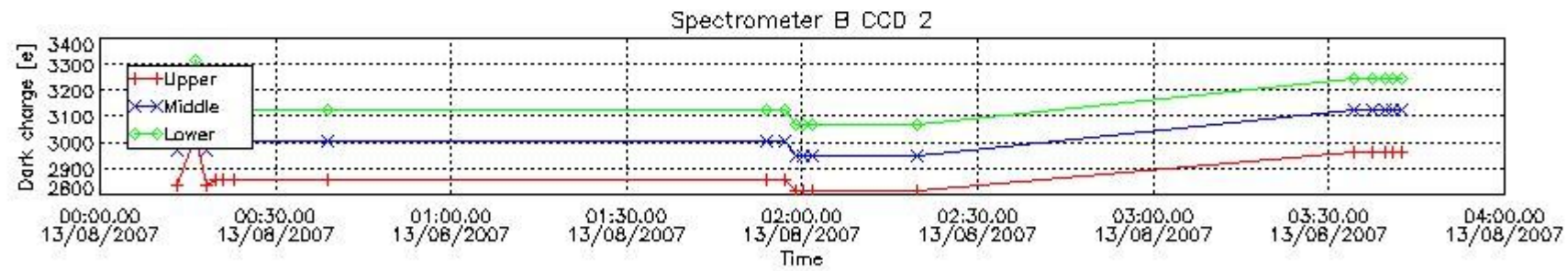
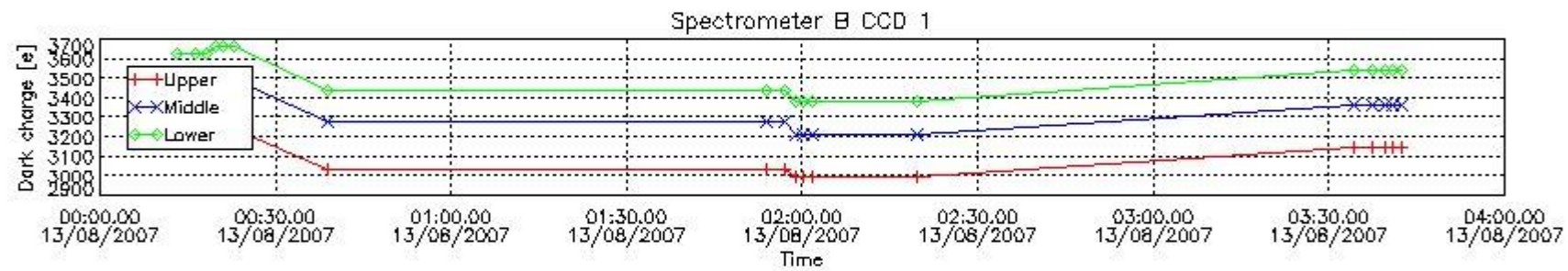
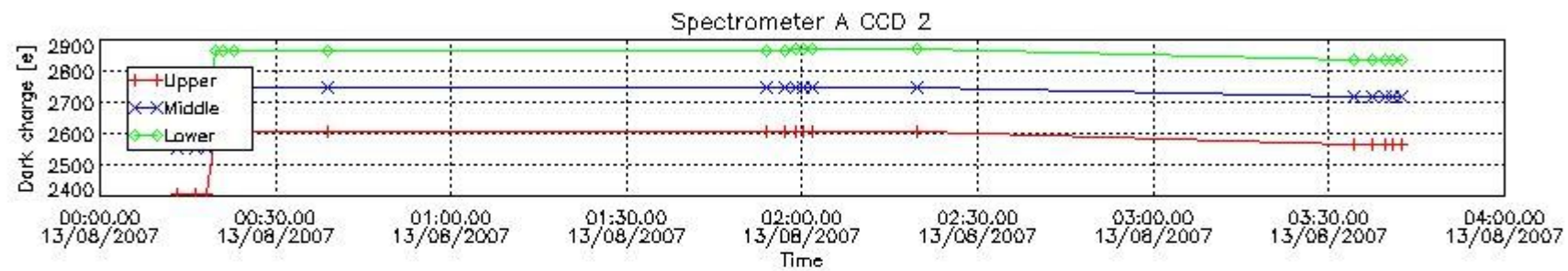
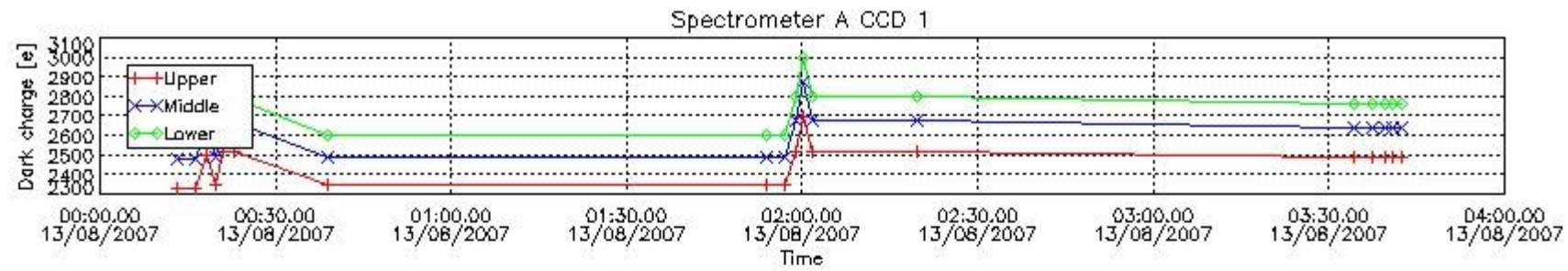
4. Overview of dark signal processing per product

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



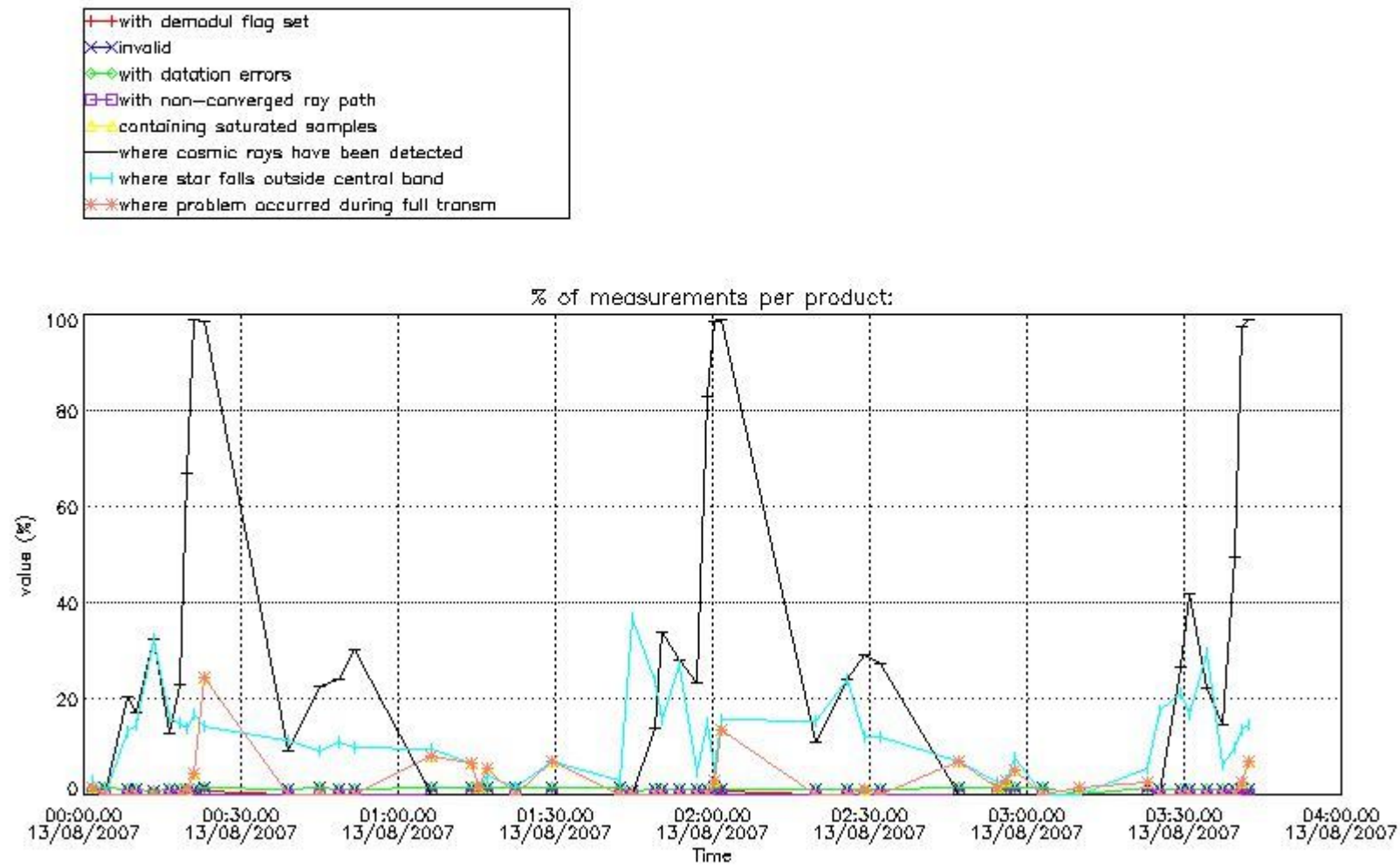
5. Demodulation flag and quality information monitoring

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.

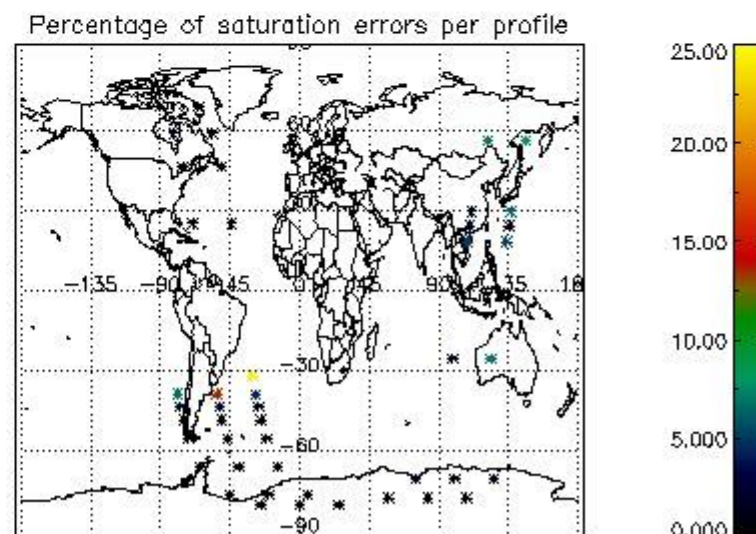
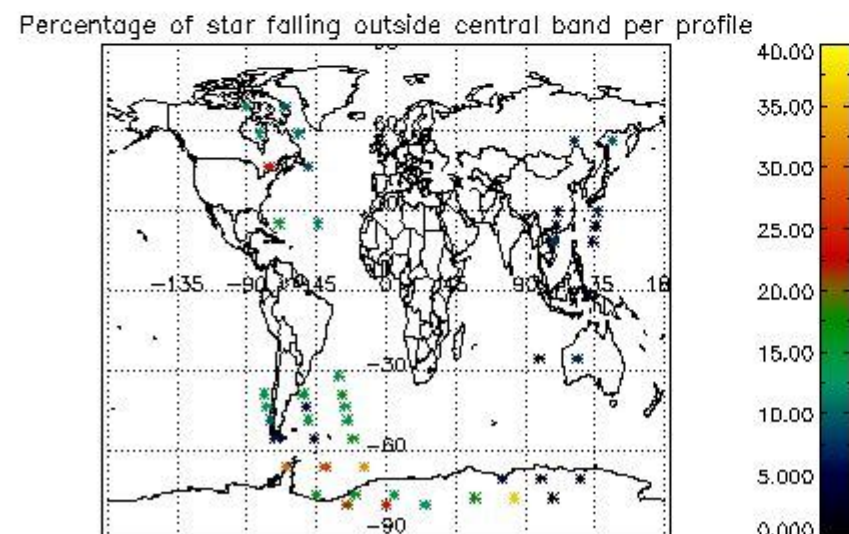
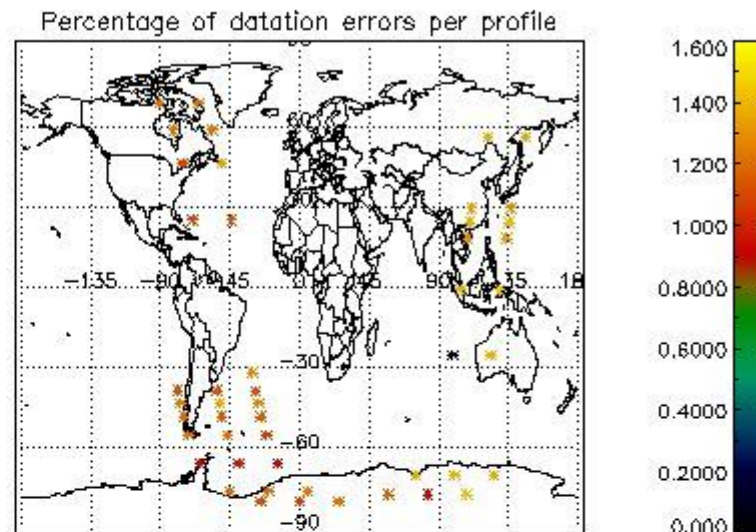
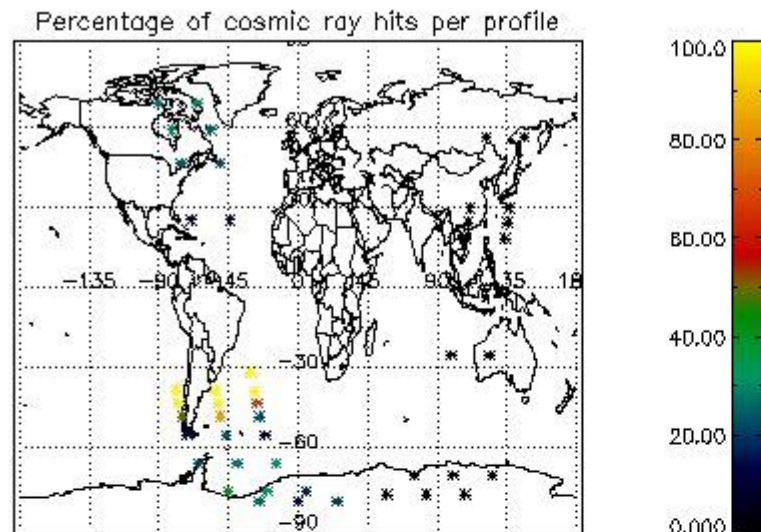
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	27.0833 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



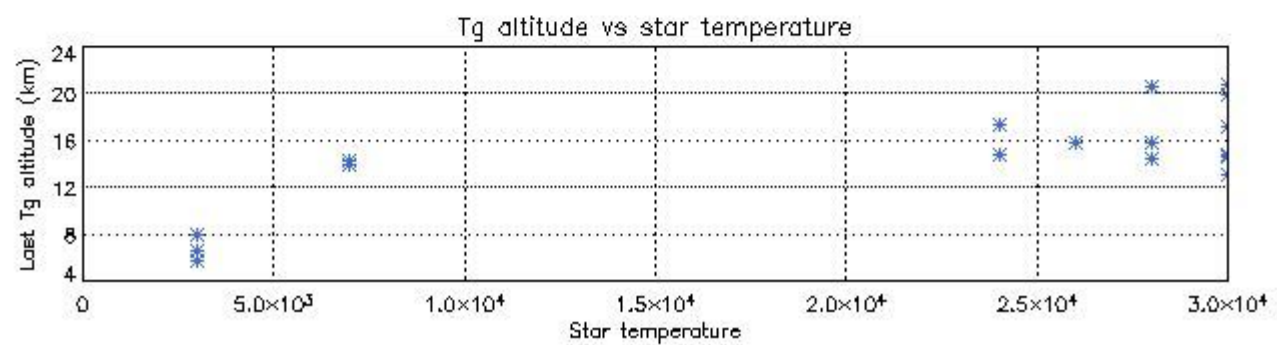
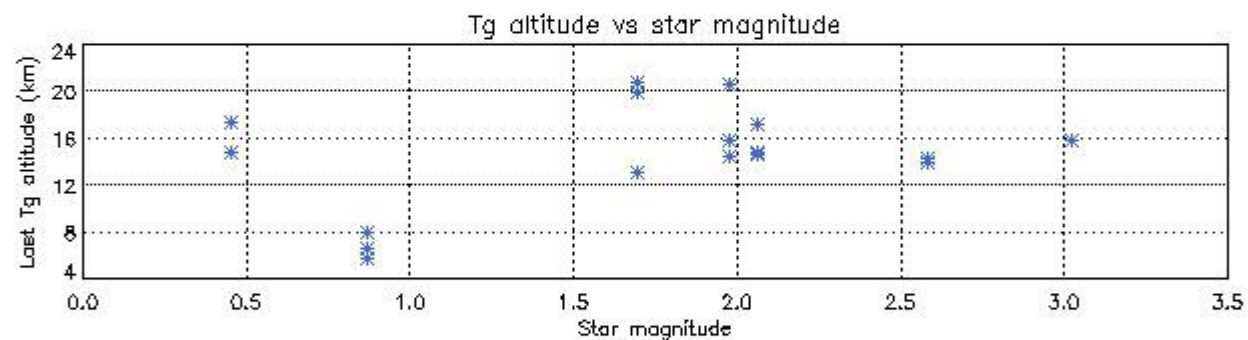
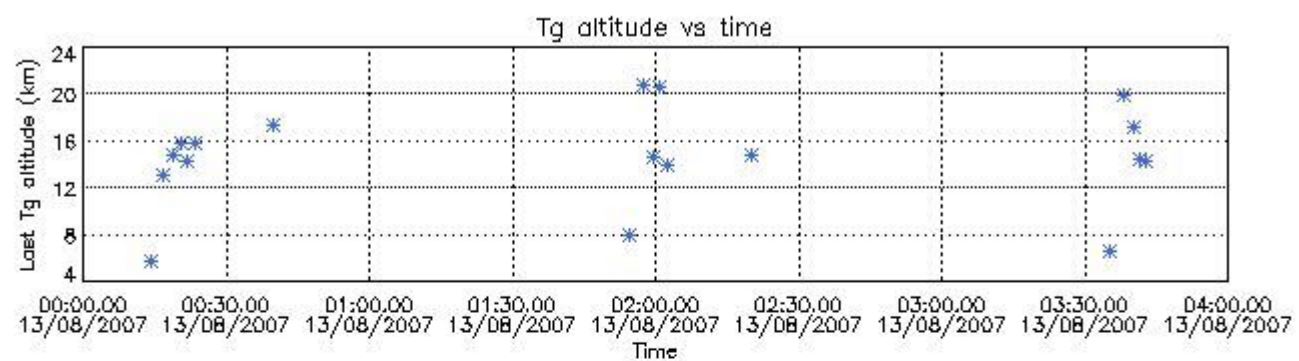
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.519	20.307	NaN
St. deviation:	4.2618	6.4303	NaN
Maximum:	20.693	29.635	NaN
Minimum:	5.7893	4.6317	NaN
Number of data:	18.000	21.000	NaN

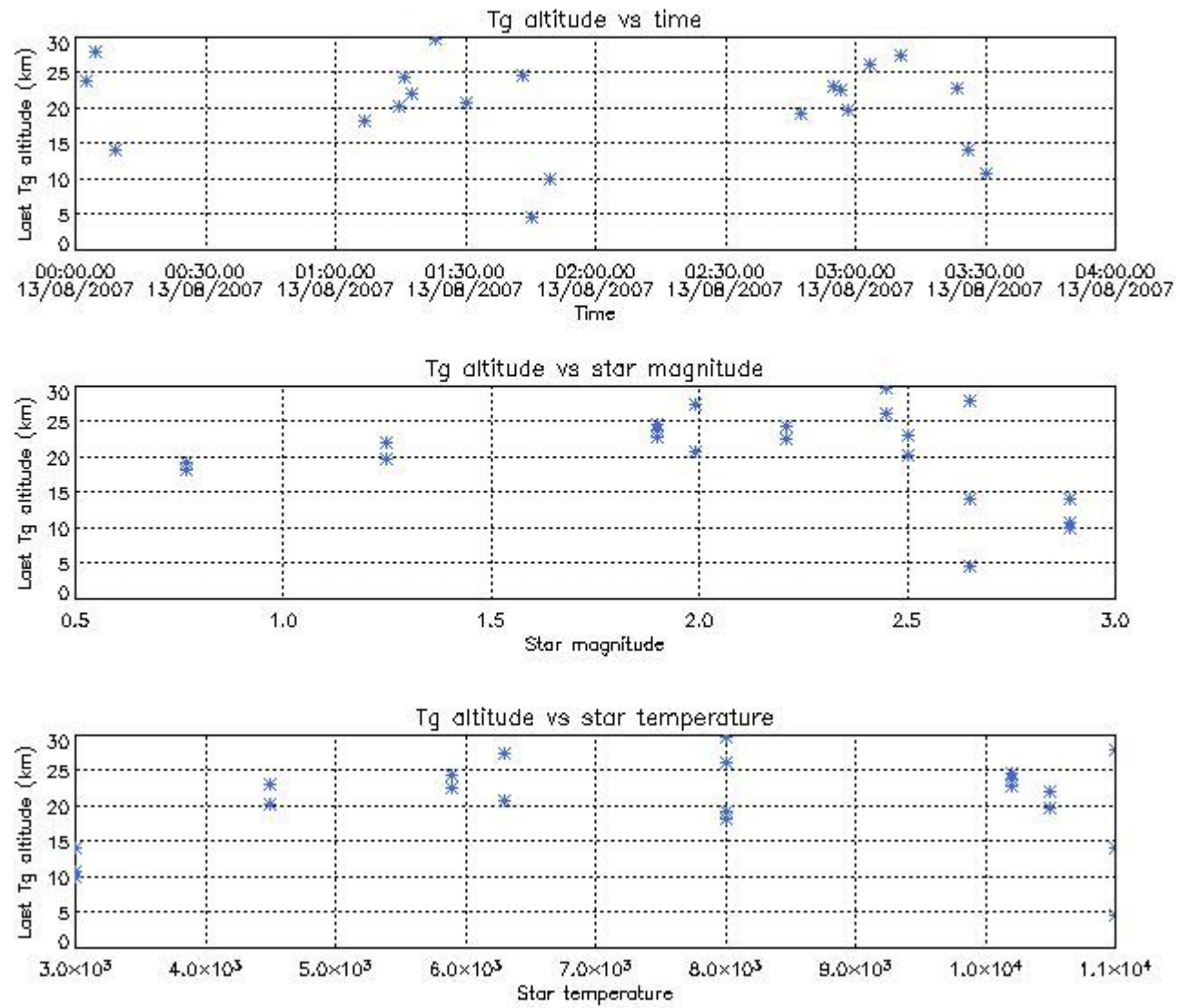
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

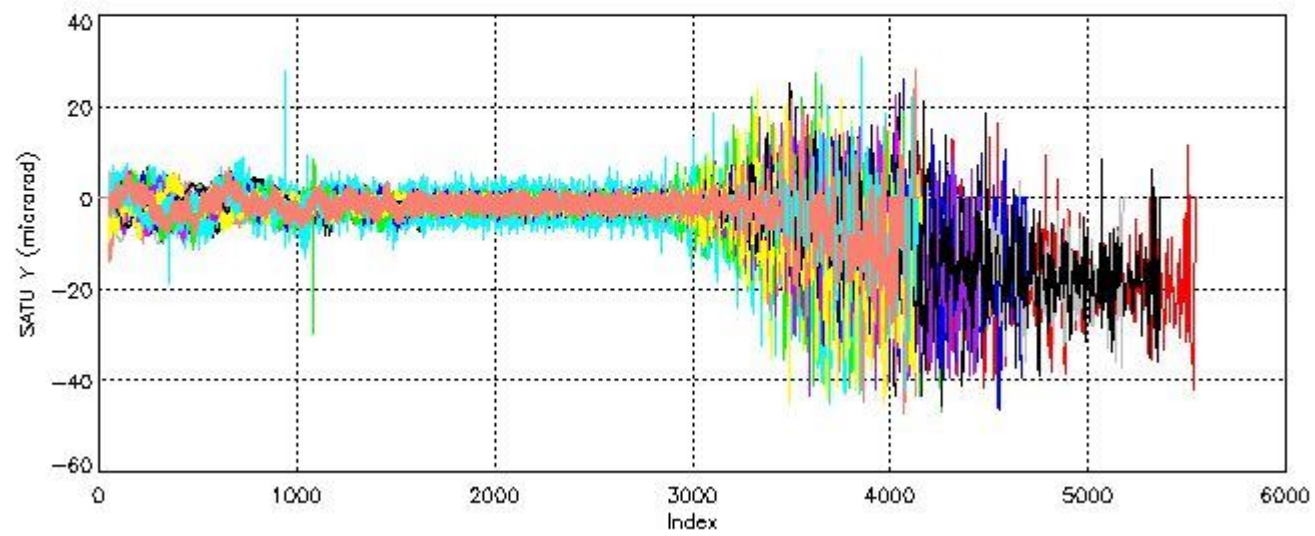
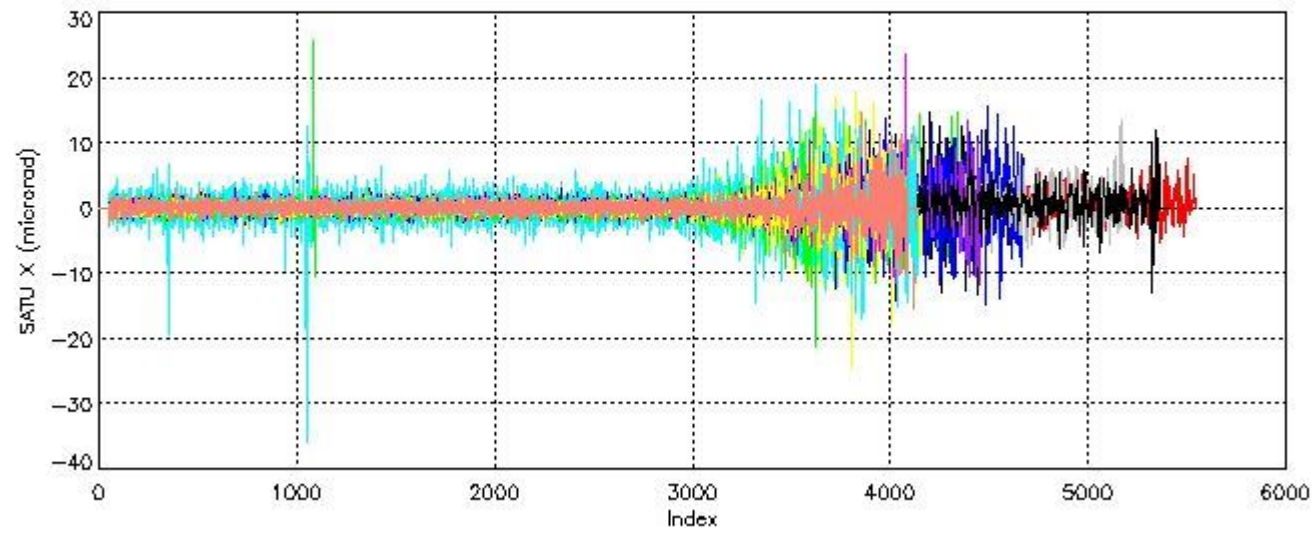


7. Star Acquisition and Tracking Unit (SATU)

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:	0.11277	-1.3346	0.11865	-1.2500
St. deviation:	0.63661	2.7597	0.61588	2.5859
Maximum:	14.200	8.9000	4.1000	8.1000
Minimum:	-19.500	-18.800	-3.6000	-11.100

Number of data:	17300.	17300.	17850.	17850.
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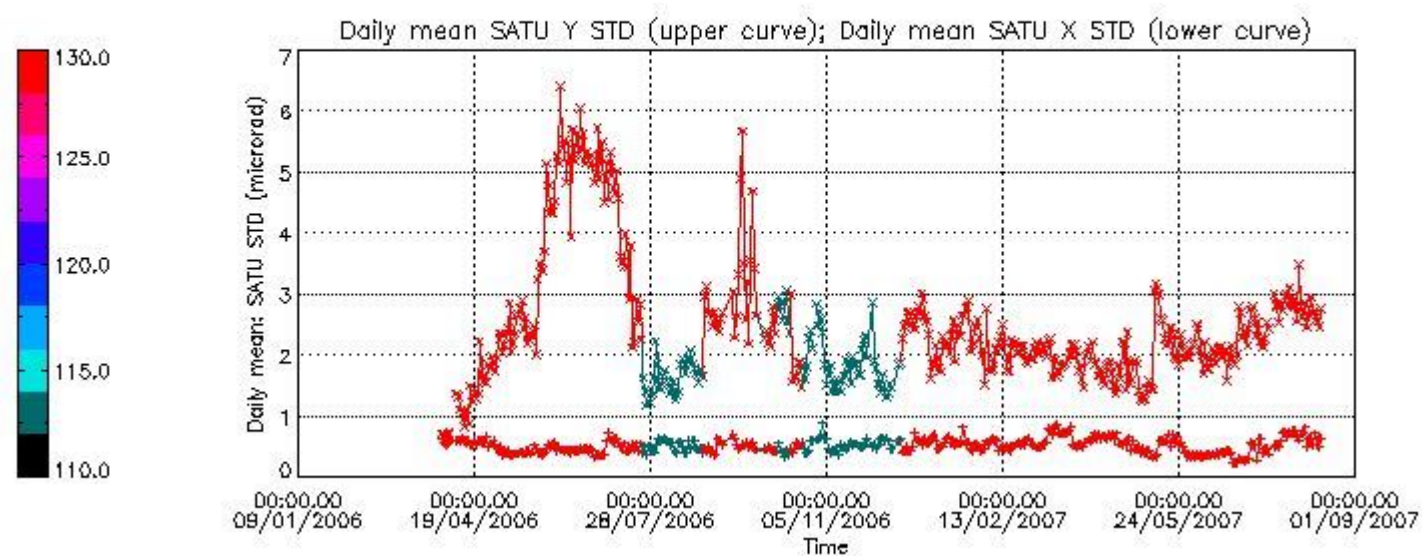
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

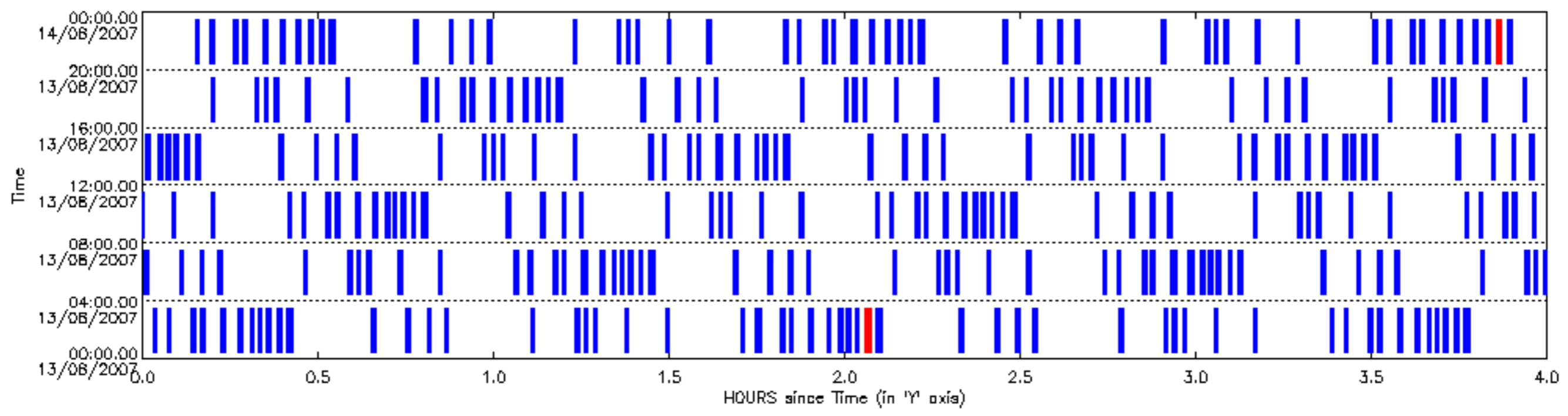
Lower curve: STD of SATU X axis

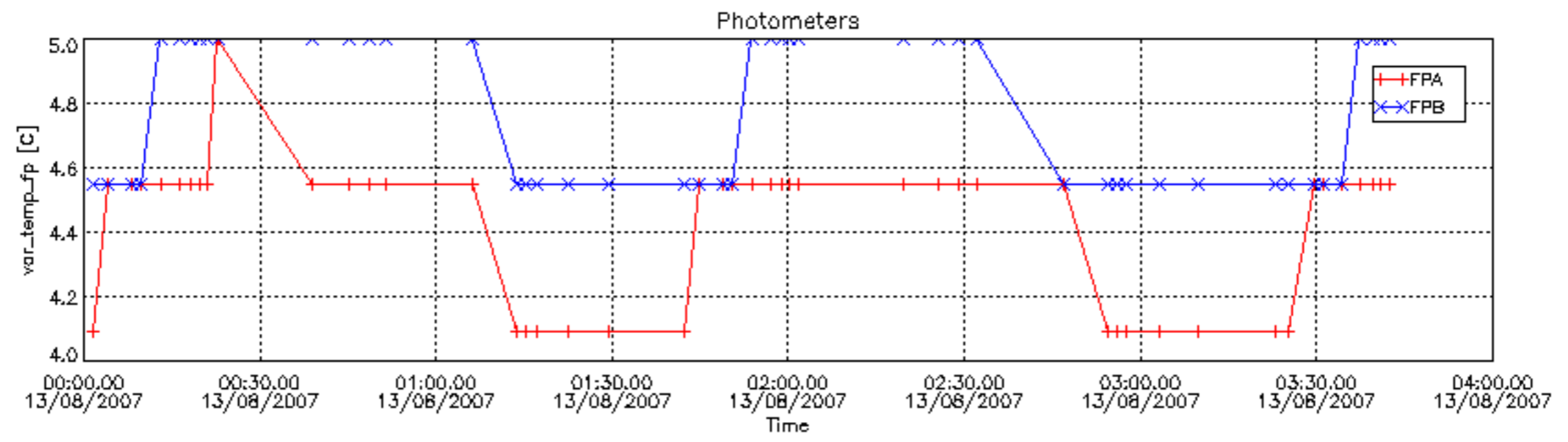
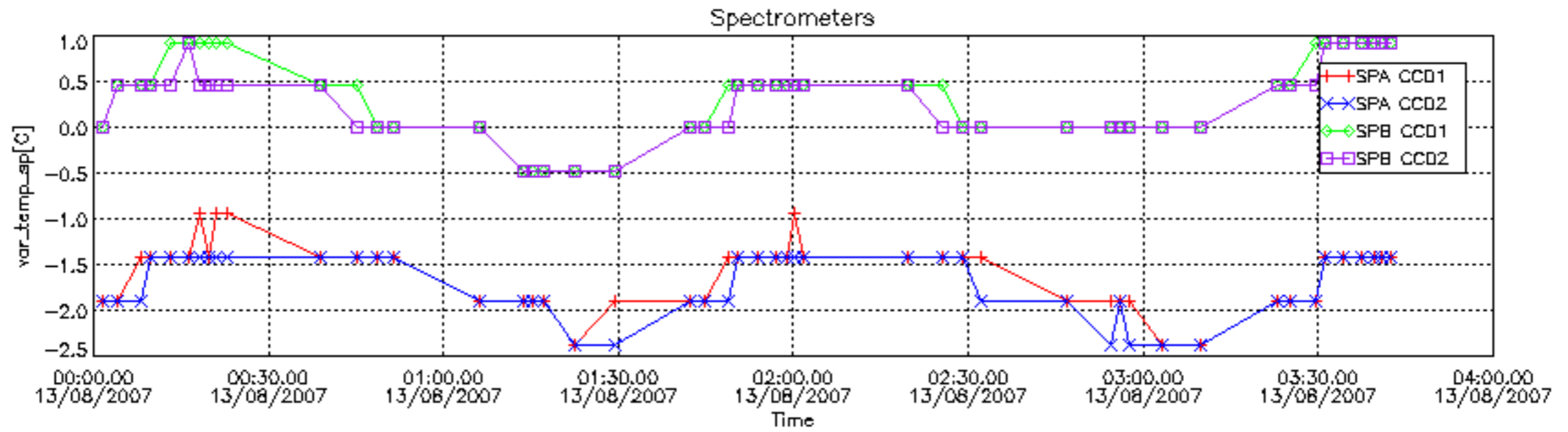


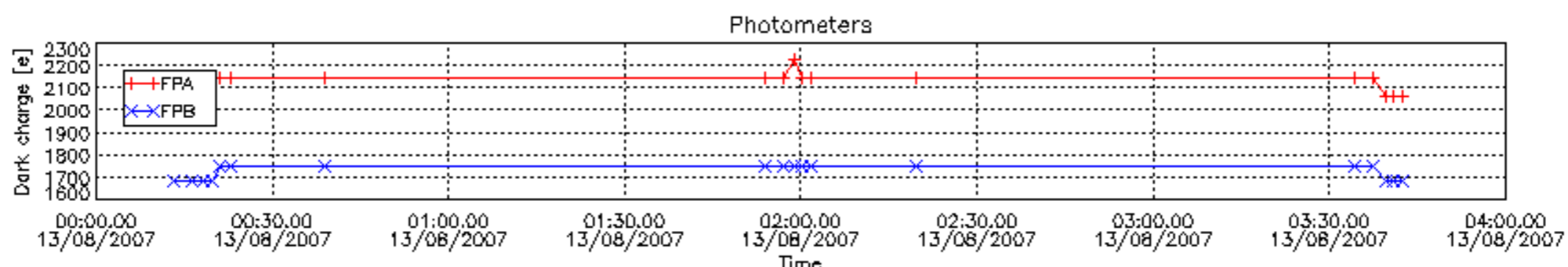
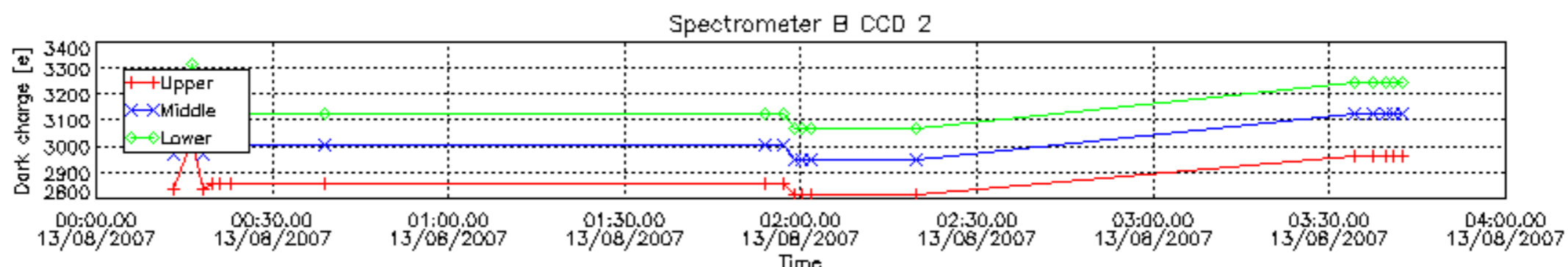
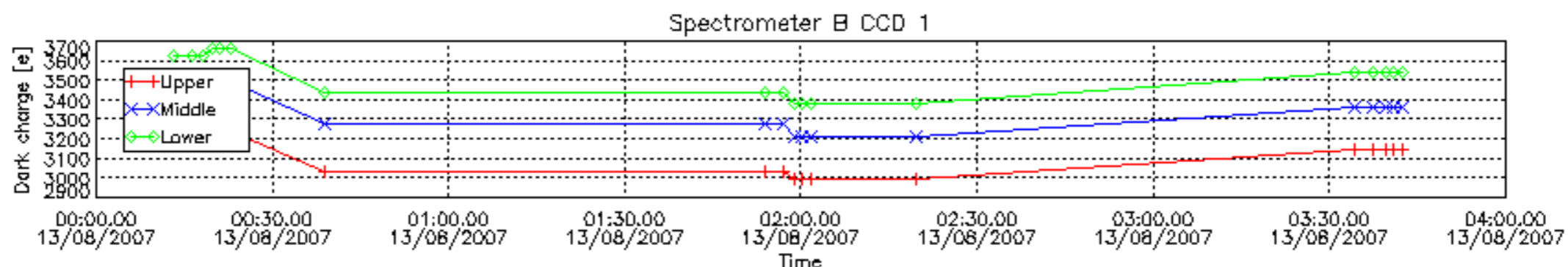
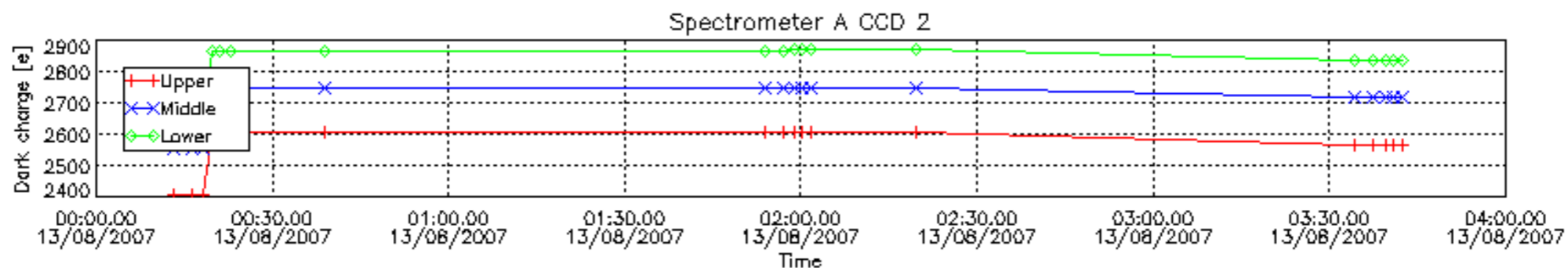
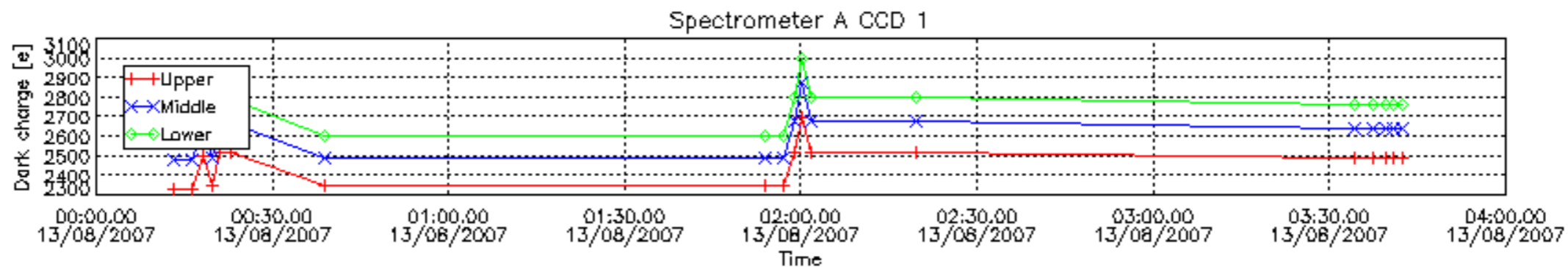
8. Auxiliary Data Files used for the production reported in section 2.4

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.

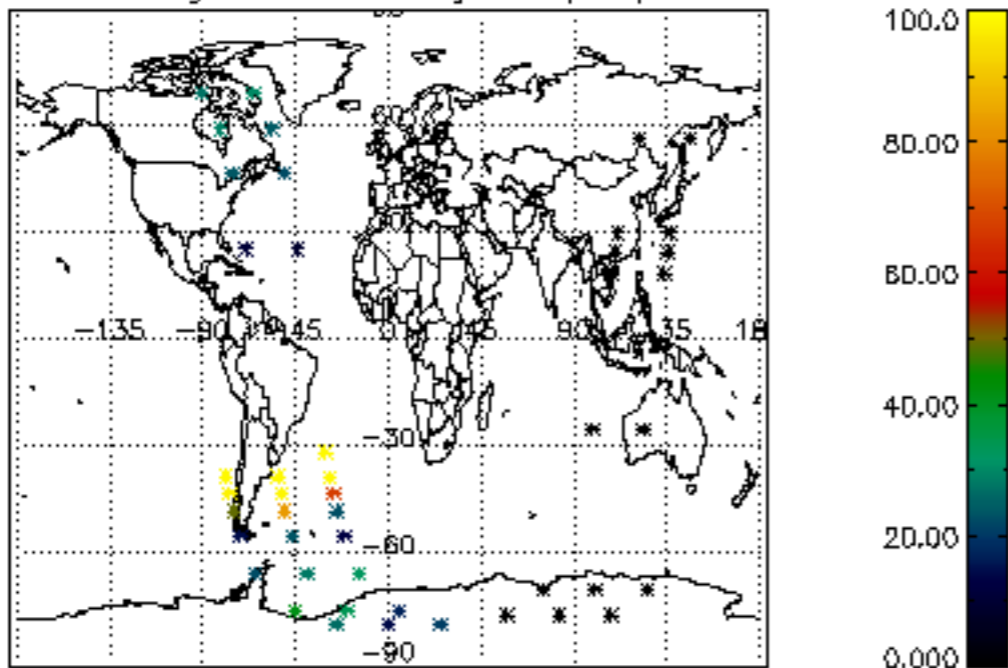
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	13-AUG-2007 00:01:42
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070803_145735_20070802_000000_20100101_000000	1	13-AUG-2007 00:01:42
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	13-AUG-2007 00:01:42
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-AUG-2007 00:01:42
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	13-AUG-2007 00:01:42
ECMWF_FILE	AUX_ECF_AXNECM20070812_062112_20070812_210000_20070813_090000	1	13-AUG-2007 00:01:42
ECMWF_FILE	AUX_ECF_AXNECM20070812_182113_20070813_030000_20070813_150000	40	13-AUG-2007 03:22:54
OPTIONAL_ECMWF_FILE	MISSING	1	13-AUG-2007 00:01:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070812_205208_000060572060_00386_28496_3957.N1	1	13-AUG-2007 00:01:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070812_223824_000057382060_00387_28497_3958.N1	8	13-AUG-2007 00:19:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070813_001921_000054192060_00388_28498_3959.N1	27	13-AUG-2007 01:58:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070813_015459_000041442060_00389_28499_3960.N1	40	13-AUG-2007 03:22:54



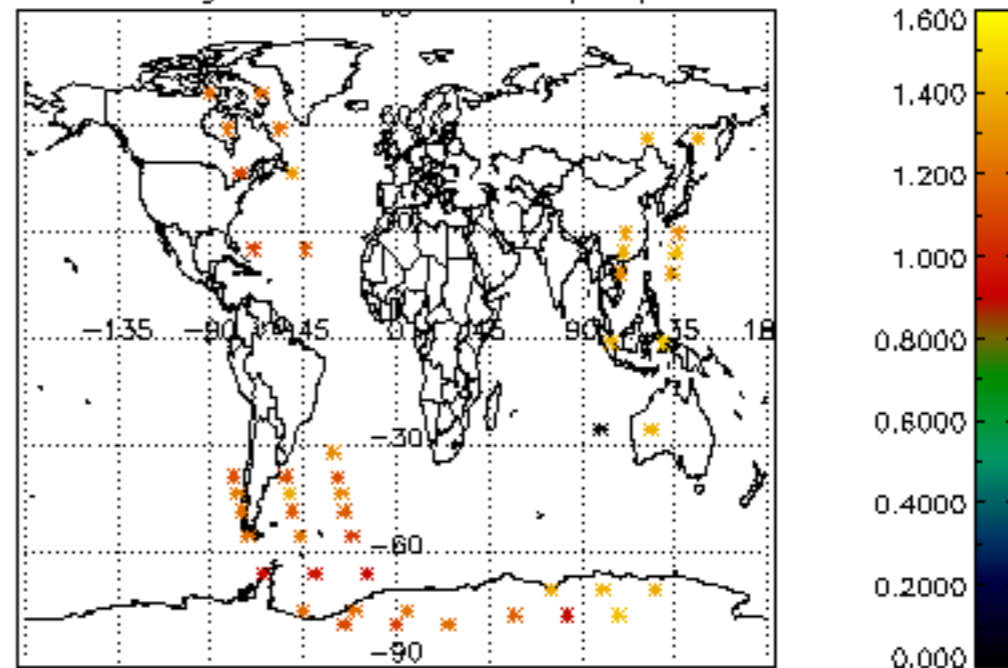




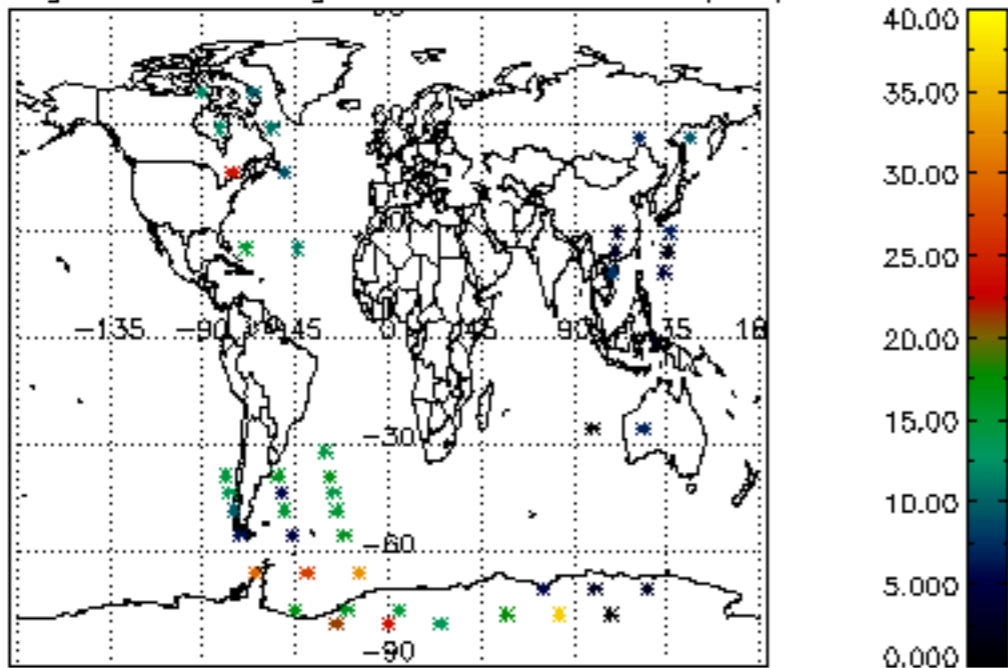
Percentage of cosmic ray hits per profile



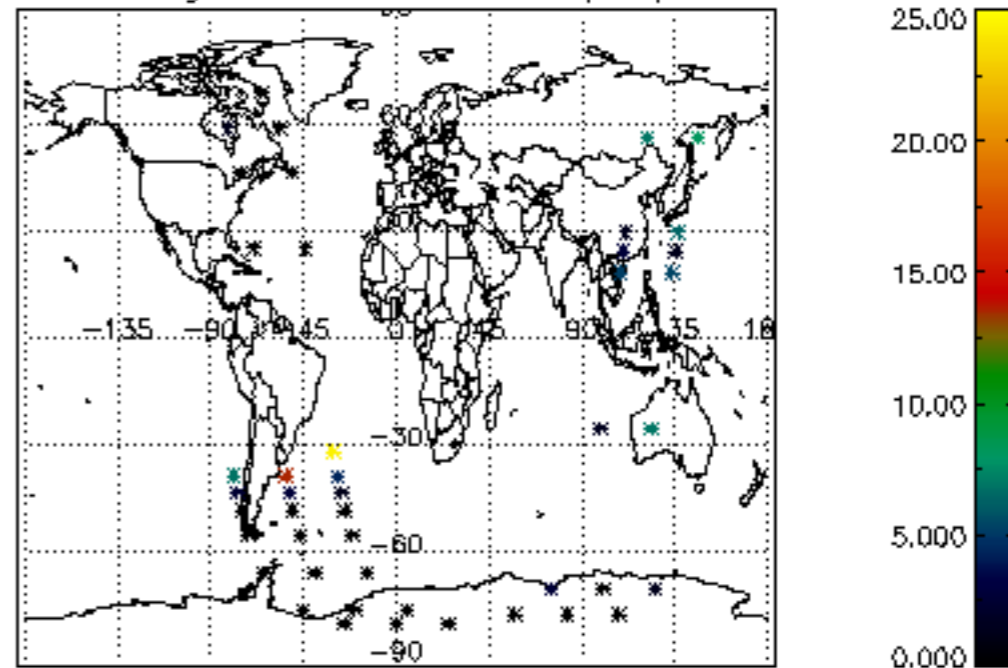
Percentage of datation errors per profile



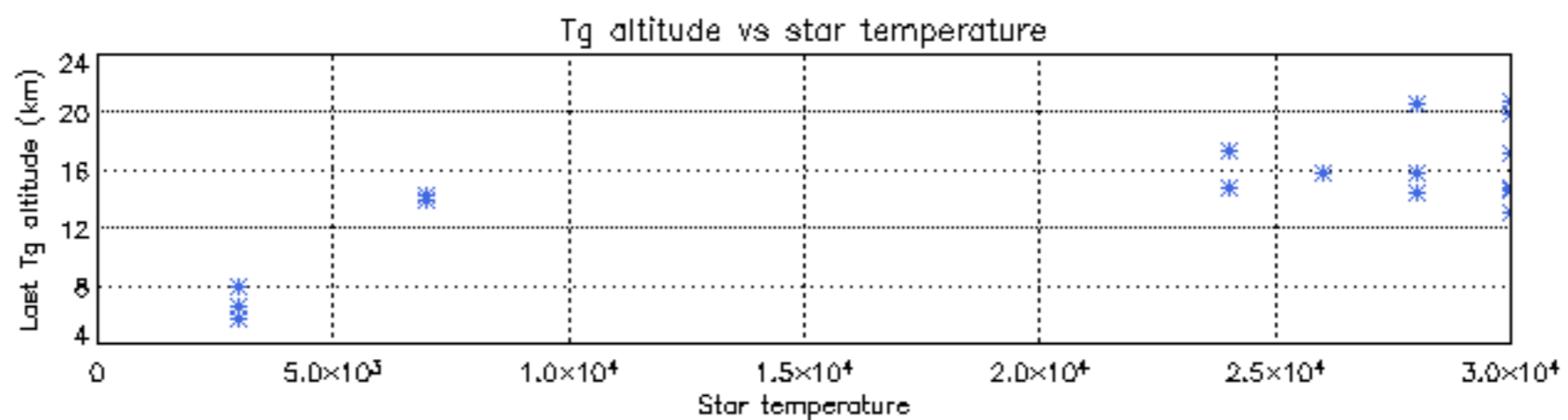
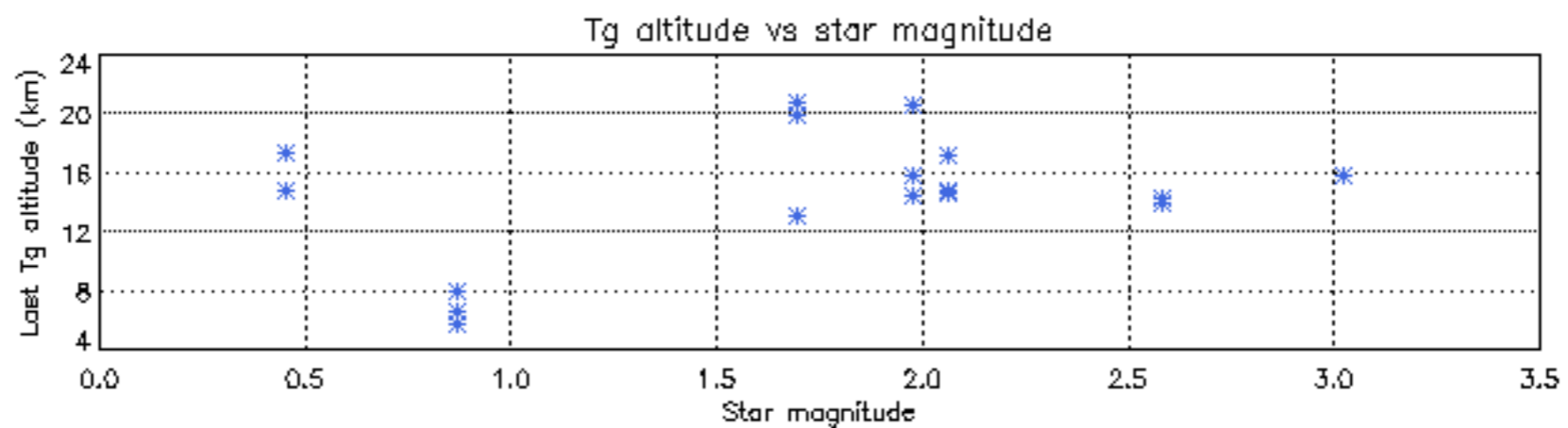
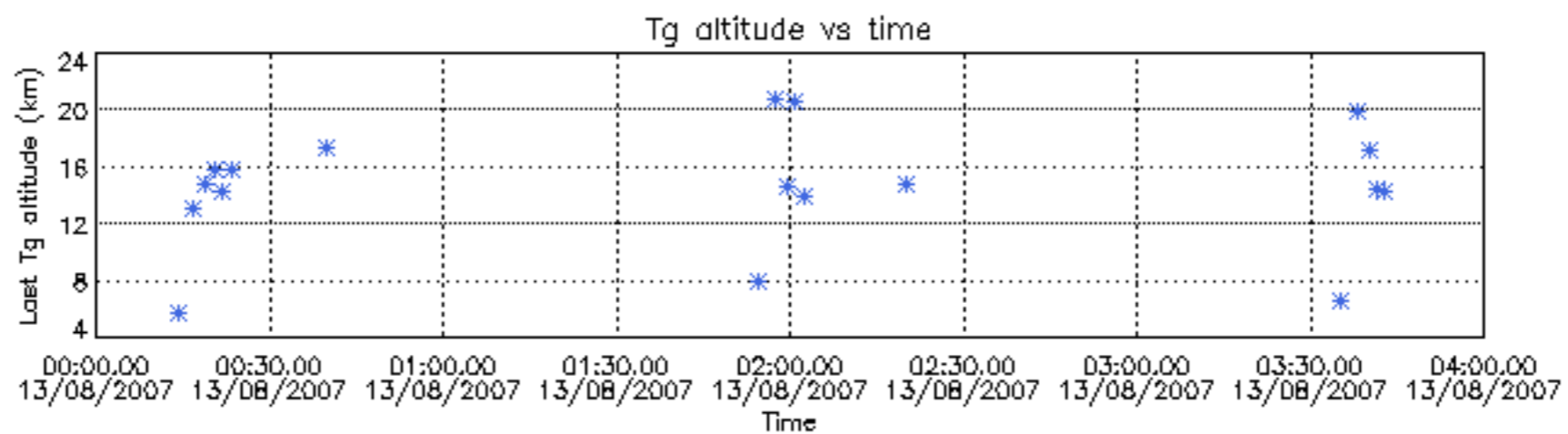
Percentage of star falling outside central band per profile



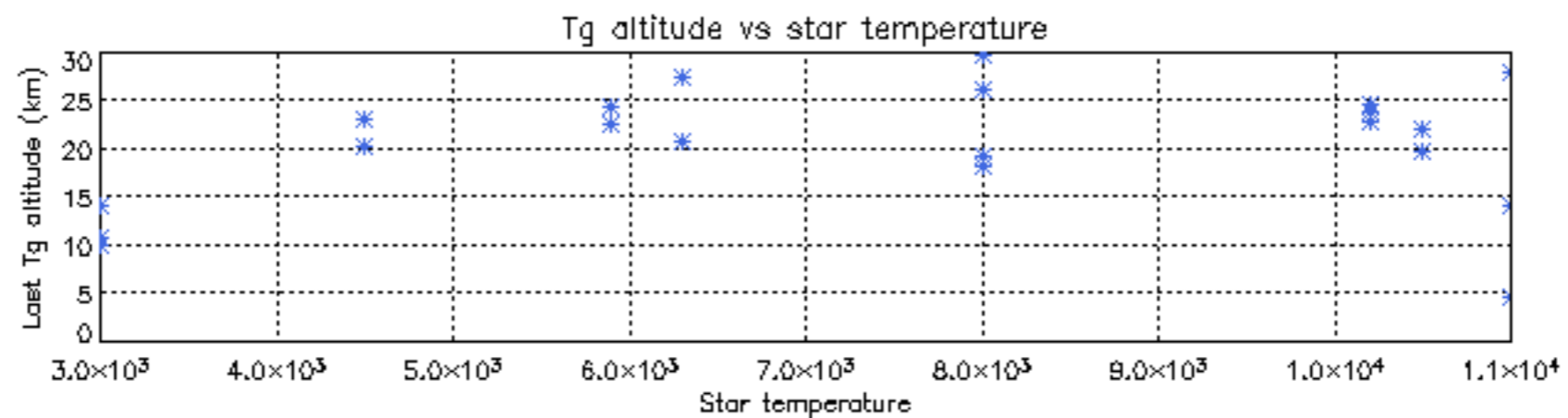
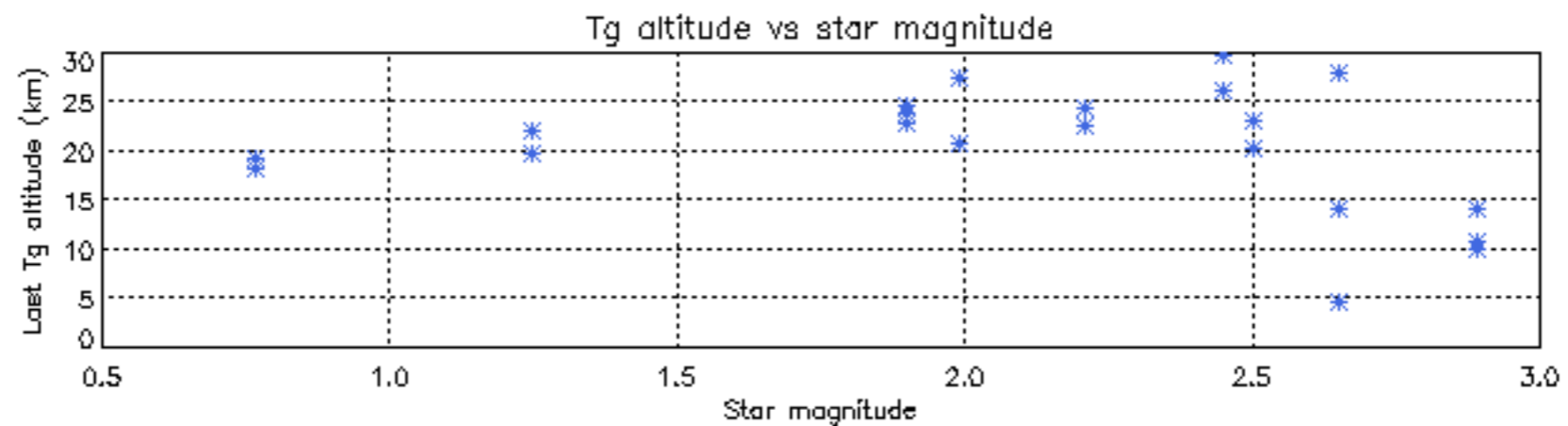
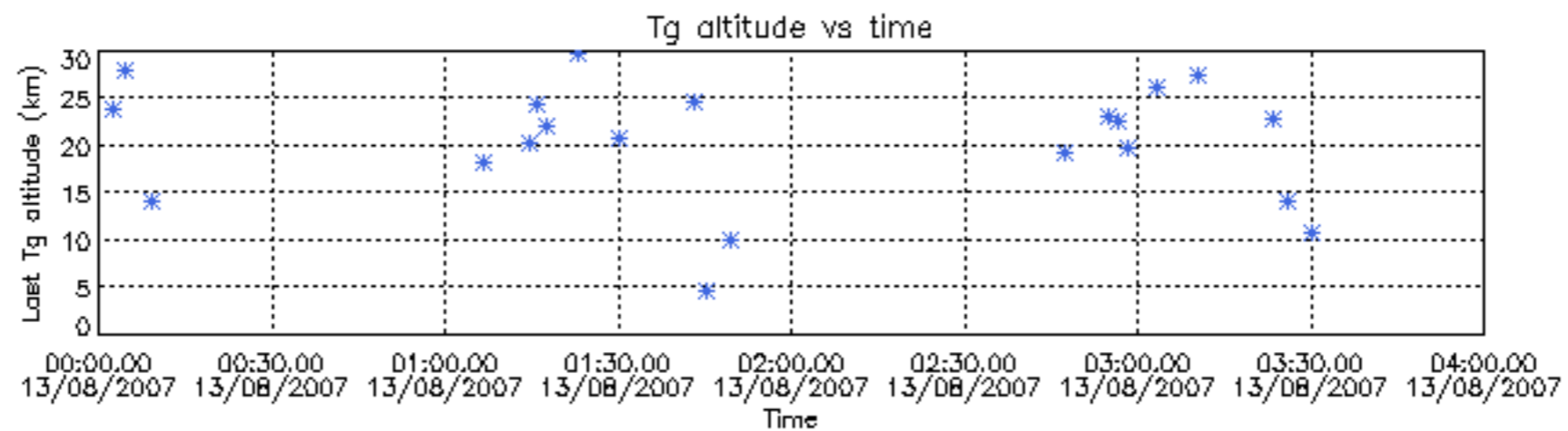
Percentage of saturation errors per profile

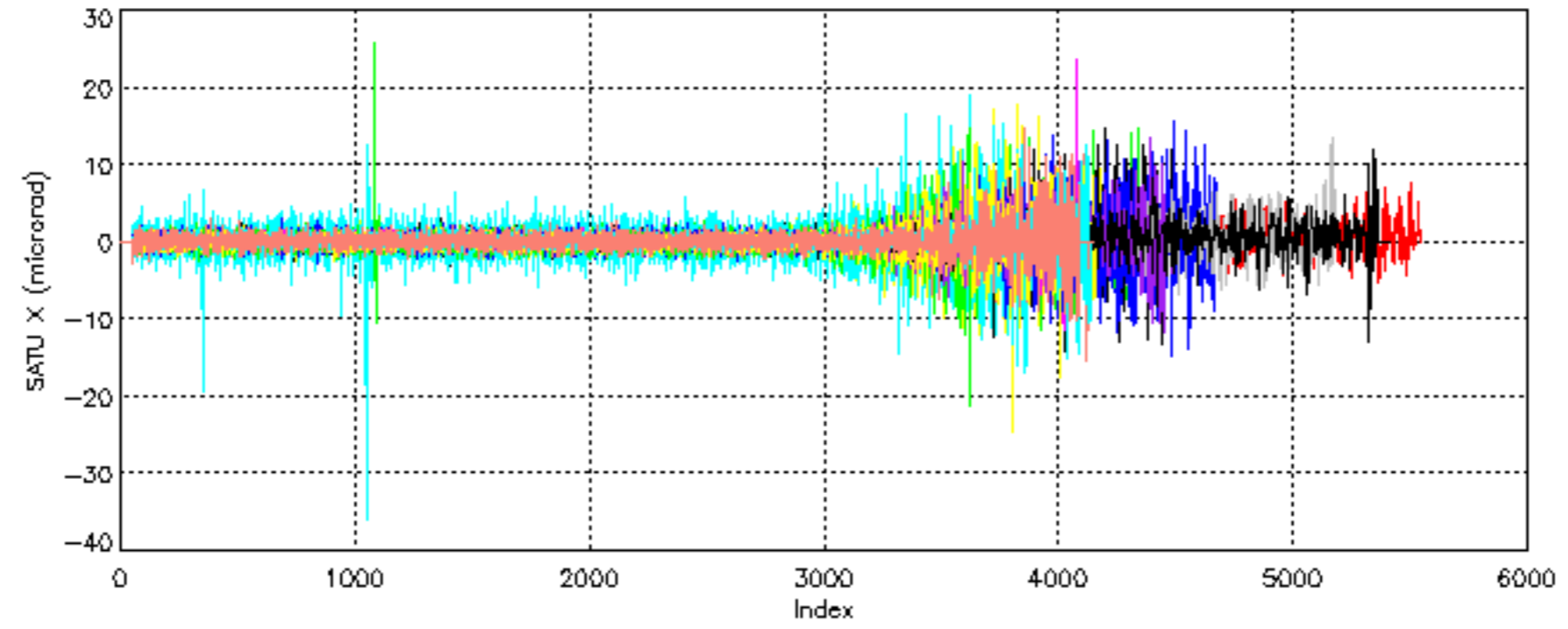


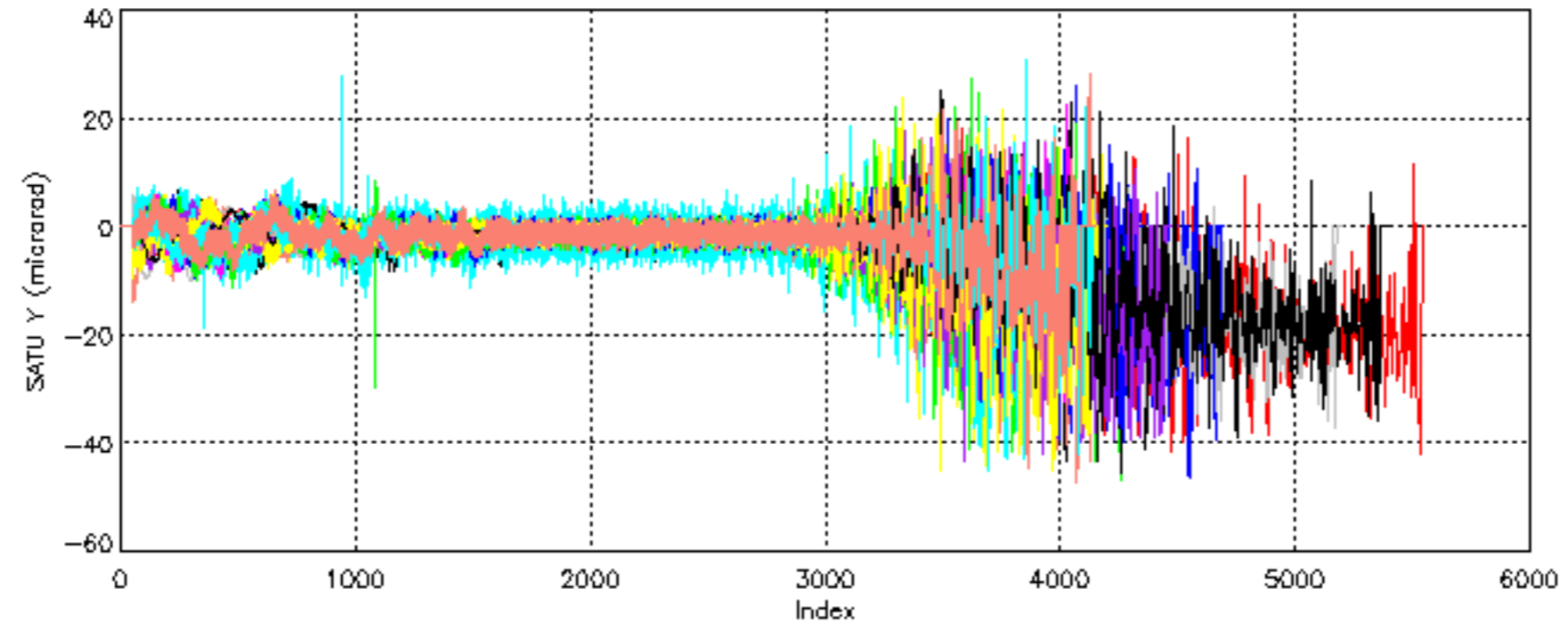
Tangent altitude at which the star is lost

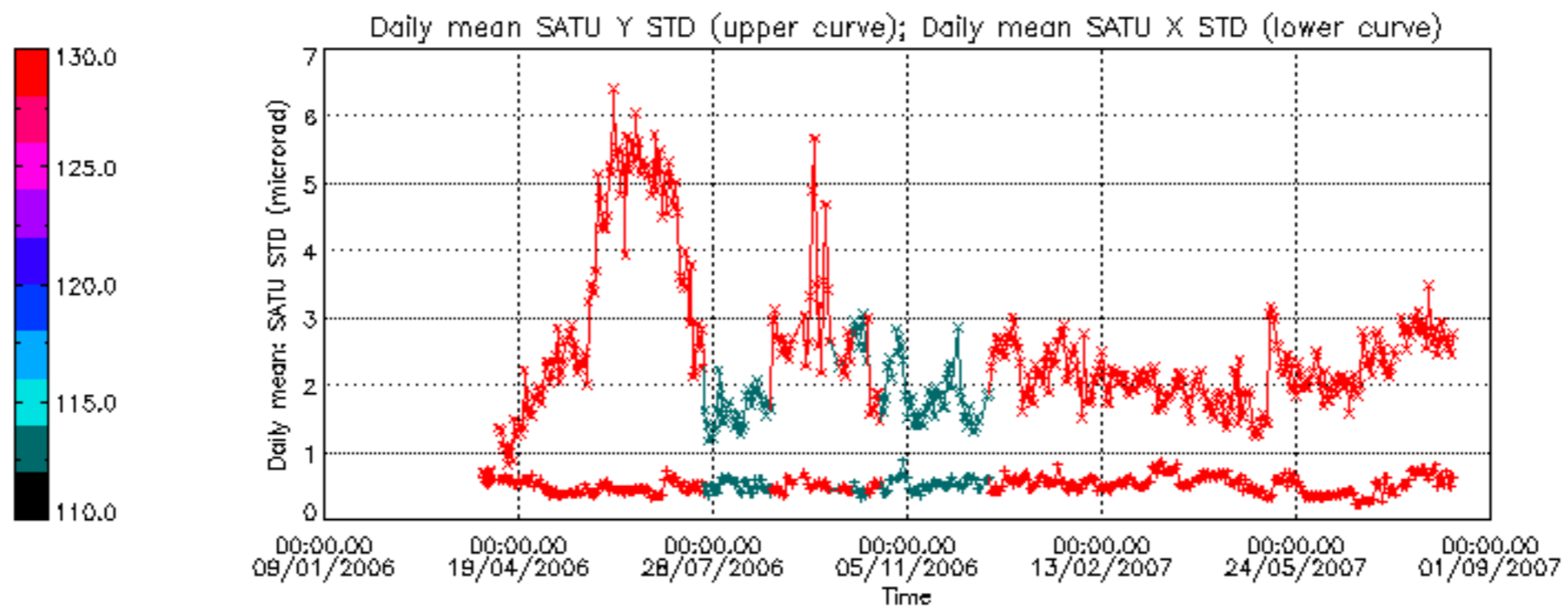


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070801_013632_000042562060_00217_28327_4074.N1

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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1; -1823.8; 01-AUG-2007 02:59:46; Bright; 33.5; 42; 34Bet Aur ; 1.90; 10200;occ; 67; 0;28328
 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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1; -1823.8; 01-AUG-2007 04:40:22; Bright; 50.0; 42; 34Bet Aur ; 1.90; 10200;occ; 100; 0;28329
 2; -1689.8; 01-AUG-2007 04:42:36; Bright; 33.5; 107; 37The Aur ; 2.65; 11000;occ; 67; 0;28329
 3; -1397.3; 01-AUG-2007 04:47:28; Dark ; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;28329
 4; -1177.7; 01-AUG-2007 04:51:08; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;28329
 5; -1012.9; 01-AUG-2007 04:53:53; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;28329
 6; -865.0; 01-AUG-2007 04:56:21; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;28329
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 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
 10; -483.3; 01-AUG-2007 05:02:42; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28329
 11; 268.4; 01-AUG-2007 05:15:14; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;28330
 12; 425.1; 01-AUG-2007 05:17:51; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;28330
 13; 716.8; 01-AUG-2007 05:22:42; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;28330
 14; 910.5; 01-AUG-2007 05:25:56; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;28330
 15; 1412.8; 01-AUG-2007 05:34:18; Dark ; 47.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 94; 0;28330
 16; 1555.7; 01-AUG-2007 05:36:41; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;28330
 17; 2145.1; 01-AUG-2007 05:46:31; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;28330
 18; 2569.7; 01-AUG-2007 05:53:35; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;28330
 19; 2796.7; 01-AUG-2007 05:57:22; Bright; 37.5; 69; 33Gam Dra ; 2.23; 3800;occ; 75; 0;28330
 20; 3035.9; 01-AUG-2007 06:01:21; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;28330
 21; 3285.4; 01-AUG-2007 06:05:31; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;28330
 22; 3441.2; 01-AUG-2007 06:08:07; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28330

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 2; 1557.1; 01-AUG-2007 20:42:06; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;28339
 3; 2145.4; 01-AUG-2007 20:51:54; Bright; 33.5; 168; 17Zet Aql ; 2.99; 11000;occ; 67; 0;28339
 4; 2570.3; 01-AUG-2007 20:58:59; Bright; 33.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 67; 0;28339
 5; 2798.1; 01-AUG-2007 21:02:47; Bright; 38.5; 69; 33Gam Dra ; 2.23; 3800;occ; 77; 0;28339

6; 3038.7; 01-AUG-2007 21:06:48; Bright; 29.0; 119; 14Eta Dra ; 2.73; 4700;occ; 58; 0;28339
 7; 3287.8; 01-AUG-2007 21:10:57; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;28339
 8; 3441.0; 01-AUG-2007 21:13:30; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28339
 9; 4212.8; 01-AUG-2007 21:26:22; Bright; 45.5; 42; 34Bet Aur ; 1.90; 10200;occ; 91; 0;28339
 10; 4347.2; 01-AUG-2007 21:28:36; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;28339
 11; 4641.0; 01-AUG-2007 21:33:30; Dark ; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;28339
 12; 4860.9; 01-AUG-2007 21:37:10; Dark ; 37.5; 14; 58Alp Ori ; 0.87; 3000;occ; 75; 0;28339
 13; 5026.4; 01-AUG-2007 21:39:55; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;28339
 14; 5175.2; 01-AUG-2007 21:42:24; Dark ; 34.0; 7; 19Bet Ori ; 0.10; 14000;occ; 68; 0;28339
 15; 5256.5; 01-AUG-2007 21:43:45; Dark ; 38.5; 47; 2Bet CMA ; 1.98; 28000;occ; 77; 0;28339

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1; -779.4; 01-AUG-2007 21:43:45; Dark ; 39.0; 47; 2Bet CMA ; 1.98; 28000;occ; 78; 0;28339
 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
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 21; 5257.0; 02-AUG-2007 01:04:58; Dark ; 40.5; 47; 2Bet CMA ; 1.98; 28000;occ; 81; 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
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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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 9; 4639.4; 01-AUG-2007 11:29:53; Dark ; 40.0; 176; 23Zet Tau ; 3.02; 22000;occ; 80; 0;28333
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 19; 6947.4; 01-AUG-2007 12:08:21; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;28333
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11; 435.6; 04-AUG-2007 03:43:10; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;28372
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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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 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; 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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2; 1896.7; 30-AUG-2007 10:32:39; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28748
3; 2077.3; 30-AUG-2007 10:35:39; Bright; 37.0; 61; 8Eps Peg ; 2.10; 3900;occ; 74; 0;28748
4; 2486.4; 30-AUG-2007 10:42:29; Bright; 34.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 68; 0;28748
5; 2677.5; 30-AUG-2007 10:45:40; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;28748
6; 2979.0; 30-AUG-2007 10:50:41; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28748
7; 3435.2; 30-AUG-2007 10:58:17; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28748
8; 4448.6; 30-AUG-2007 11:15:11; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28748
9; 4605.3; 30-AUG-2007 11:17:47; Dark ; 49.5; 170; 27Eps Gem ; 3.00; 9700;occ; 99; 0;28748
10; 4781.4; 30-AUG-2007 11:20:44; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28748
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13; 5437.3; 30-AUG-2007 11:31:39; Dark ; 38.0; 179; 240mi2CMa ; 3.03; 24000;occ; 76; 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
4; 2077.3; 30-AUG-2007 12:16:15; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28749
5; 2486.5; 30-AUG-2007 12:23:04; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;28749
6; 2677.6; 30-AUG-2007 12:26:16; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;28749
7; 2978.8; 30-AUG-2007 12:31:17; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28749
8; 3435.1; 30-AUG-2007 12:38:53; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28749
9; 4448.6; 30-AUG-2007 12:55:47; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28749
10; 4605.6; 30-AUG-2007 12:58:24; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28749
11; 4781.9; 30-AUG-2007 13:01:20; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28749
12; 4906.4; 30-AUG-2007 13:03:24; Dark ; 51.0; 8; 10Alp CMi ; 0.40; 6500;occ; 102; 0;28749
13; 5357.8; 30-AUG-2007 13:10:56; Dark ; 46.0; 1; 9Alp CMa ; -1.44; 11000;occ; 92; 0;28749
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16; 5621.8; 30-AUG-2007 13:15:20; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28749
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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
20; 6982.1; 30-AUG-2007 15:18:36; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;28750
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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8; 2677.6; 30-AUG-2007 19:08:39; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 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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5; 2487.1; 31-AUG-2007 15:12:40; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;28765

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