

GOMOS Daily Report 07-JUN-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	09JUN2007 05:33:38
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (07JUN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (08JUN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

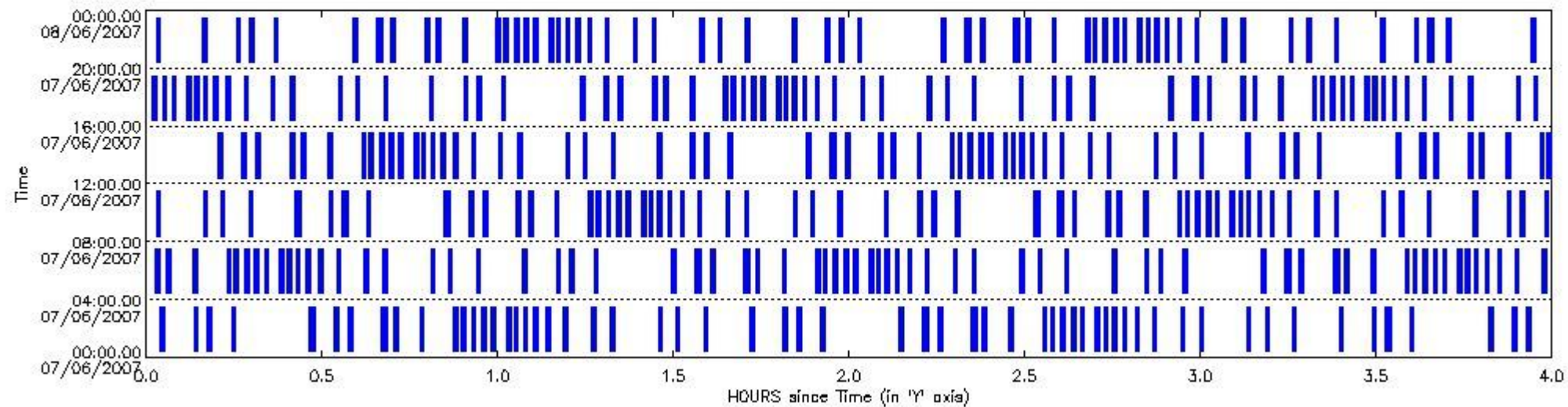
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

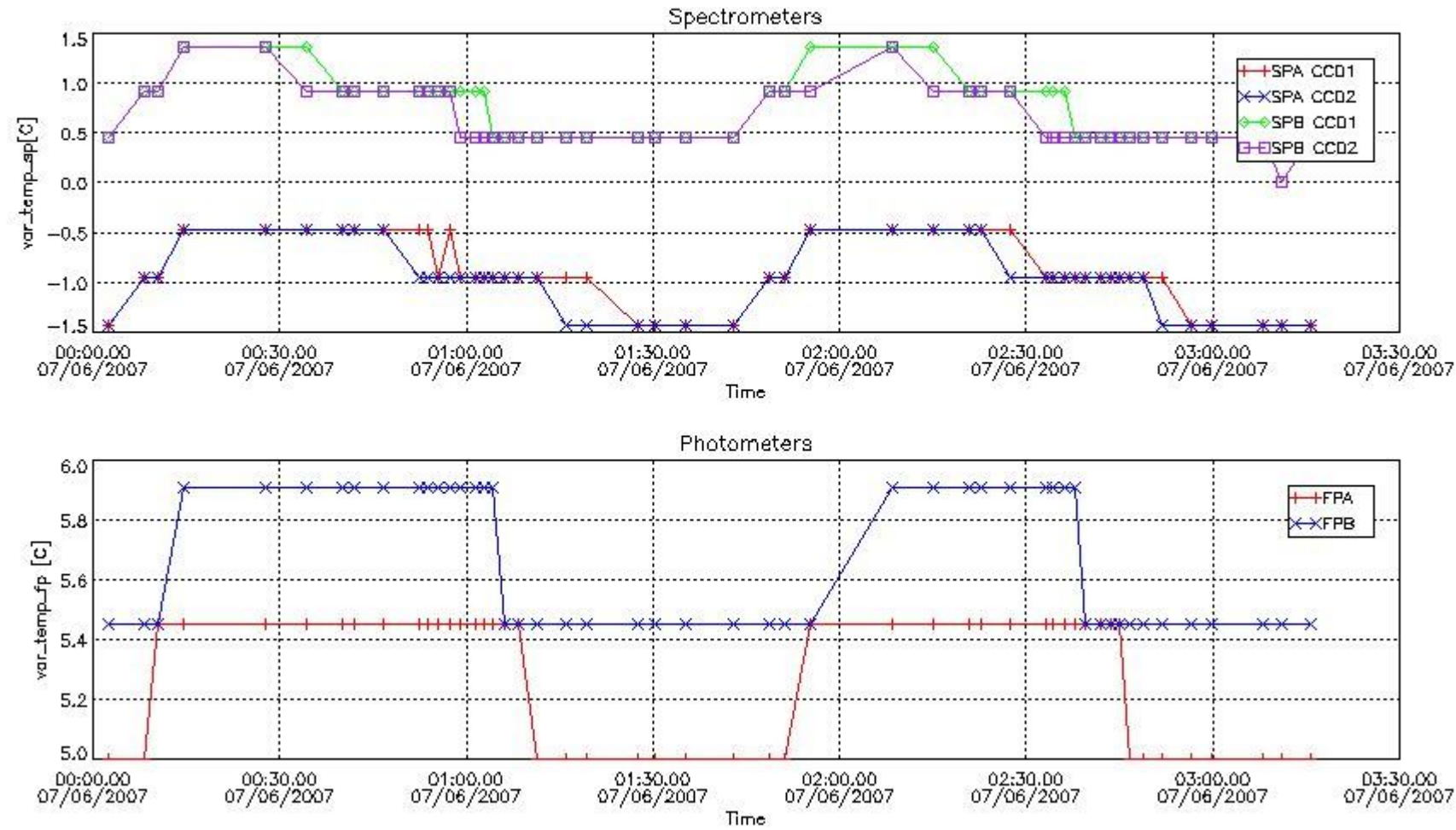
No missing products.

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_1PNPDE20070607_000225_000000422058_00431_27539_7024.N1	07-JUN-2007 00:02:25	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	27539	No
2	GOM_TRA_1PNPDE20070607_000809_000000362058_00431_27539_7025.N1	07-JUN-2007 00:08:09	Bright	36.000	73	57Gam1And	2.2600	13100.	72	27539	No
3	GOM_TRA_1PNPDE20070607_001027_000000472058_00431_27539_7026.N1	07-JUN-2007 00:10:27	Bright	47.000	53	43Bet And	2.0480	3300.0	94	27539	No
4	GOM_TRA_1PNPDE20070607_001434_000000422058_00431_27539_7027.N1	07-JUN-2007 00:14:34	Twilight	42.000	105	6Bet Ari	2.6450	8900.0	84	27539	No
5	GOM_TRA_1PNPDE20070607_002751_000000512058_00431_27539_7133.N1	07-JUN-2007 00:27:51	Dark	50.500	52	16Bet Cet	2.0370	4500.0	101	27539	No
6	GOM_TRA_1PNPDE20070607_003426_000000442058_00431_27539_7134.N1	07-JUN-2007 00:34:26	Dark	44.000	84	Alp Phe	2.3970	4500.0	88	27539	No
7	GOM_TRA_1PNPDE20070607_004009_000000592058_00432_27540_7135.N1	07-JUN-2007 00:40:09	Dark	59.000	63	Bet Gru	2.1500	2800.0	118	27540	No
8	GOM_TRA_1PNPDE20070607_004207_000000492058_00432_27540_7136.N1	07-JUN-2007 00:42:07	Dark	49.000	31	Alp Gru	1.7340	15200.	98	27540	No
9	GOM_TRA_1PNPDE20070607_004643_000000432058_00432_27540_7137.N1	07-JUN-2007 00:46:43	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	27540	No
10	GOM_TRA_1PNPDE20070607_005230_000000412058_00432_27540_7138.N1	07-JUN-2007 00:52:30	Straylight	40.500	141	Bet Ara	2.8400	4600.0	81	27540	No
11	GOM_TRA_1PNPDE20070607_005348_000000402058_00432_27540_7139.N1	07-JUN-2007 00:53:48	Straylight	39.500	147	Alp Ara	2.8770	26000.	79	27540	No
12	GOM_TRA_1PNPDE20070607_005531_000000462058_00432_27540_7140.N1	07-JUN-2007 00:55:31	Straylight	46.000	40	The Sco	1.8590	7100.0	92	27540	No

13	GOM_TRA_1PNPDE20070607_005717_000000462058_00432_27540_7141.N1	07-JUN-2007 00:57:17	Twilight	46.000	25	35Lam Sco	1.6200	28000.	92	27540	No
14	GOM_TRA_1PNPDE20070607_005855_000000432058_00432_27540_7142.N1	07-JUN-2007 00:58:55	Twilight	43.000	75	26Eps Sco	2.2910	4250.0	86	27540	No
15	GOM_TRA_1PNPDE20070607_010128_000000462058_00432_27540_7143.N1	07-JUN-2007 01:01:28	Bright	46.000	16	21Alp Sco	1.0200	3000.0	92	27540	No
16	GOM_TRA_1PNPDE20070607_010253_000000382058_00432_27540_7144.N1	07-JUN-2007 01:02:53	Bright	37.500	80	7Del Sco	2.3160	30000.	75	27540	No
17	GOM_TRA_1PNPDE20070607_010420_000000432058_00432_27540_7145.N1	07-JUN-2007 01:04:20	Bright	42.500	86	35Eta Oph	2.4300	10200.	85	27540	No
18	GOM_TRA_1PNPDE20070607_010608_000000402058_00432_27540_7146.N1	07-JUN-2007 01:06:08	Bright	39.500	98	13Zet Oph	2.5710	30000.	79	27540	No
19	GOM_TRA_1PNPDE20070607_010816_000000382058_00432_27540_7147.N1	07-JUN-2007 01:08:16	Bright	37.500	120	1Del Oph	2.7340	3200.0	75	27540	No
20	GOM_TRA_1PNPDE20070607_011116_000000362058_00432_27540_7148.N1	07-JUN-2007 01:11:16	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	27540	No
21	GOM_TRA_1PNPDE20070607_011559_000000402058_00432_27540_7149.N1	07-JUN-2007 01:15:59	Bright	39.500	127	27Bet Her	2.7810	4700.0	79	27540	No
22	GOM_TRA_1PNPDE20070607_011916_000000402058_00432_27540_7150.N1	07-JUN-2007 01:19:16	Bright	39.500	133	40Zet Her	2.8070	6000.0	79	27540	No
23	GOM_TRA_1PNPDE20070607_012726_000000342058_00432_27540_7151.N1	07-JUN-2007 01:27:26	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	27540	No
24	GOM_TRA_1PNPDE20070607_013026_000000362058_00432_27540_7152.N1	07-JUN-2007 01:30:26	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	27540	No
25	GOM_TRA_1PNPDE20070607_013508_000000332058_00432_27540_7153.N1	07-JUN-2007 01:35:08	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	27540	No
26	GOM_TRA_1PNPDE20070607_014301_000000522058_00432_27540_7154.N1	07-JUN-2007 01:43:01	Bright	52.000	76	27Gam Cas	2.3000	30000.	104	27540	No
27	GOM_TRA_1PNPDE20070607_014844_000000362058_00432_27540_7155.N1	07-JUN-2007 01:48:44	Bright	36.000	73	57Gam1And	2.2600	13100.	72	27540	No
28	GOM_TRA_1PNPDE20070607_015103_000000542058_00432_27540_7156.N1	07-JUN-2007 01:51:03	Bright	53.500	53	43Bet And	2.0480	3300.0	107	27540	No
29	GOM_TRA_1PNPDE20070607_015511_000000412058_00432_27540_7157.N1	07-JUN-2007 01:55:11	Twilight	40.500	105	6Bet Ari	2.6450	8900.0	81	27540	No
30	GOM_TRA_1PNPDE20070607_020828_000000522058_00432_27540_7269.N1	07-JUN-2007 02:08:28	Dark	52.000	52	16Bet Cet	2.0370	4500.0	104	27540	No
31	GOM_TRA_1PNPDE20070607_021503_000000492058_00432_27540_7270.N1	07-JUN-2007 02:15:03	Dark	49.000	84	Alp Phe	2.3970	4500.0	98	27540	No
32	GOM_TRA_1PNPDE20070607_022045_000000612058_00433_27541_7271.N1	07-JUN-2007 02:20:45	Dark	61.000	63	Bet Gru	2.1500	2800.0	122	27541	No
33	GOM_TRA_1PNPDE20070607_022244_000000482058_00433_27541_7272.N1	07-JUN-2007 02:22:44	Dark	48.000	31	Alp Gru	1.7340	15200.	96	27541	No
34	GOM_TRA_1PNPDE20070607_022720_000000452058_00433_27541_7273.N1	07-JUN-2007 02:27:20	Straylight	44.500	45	Alp Pav	1.9400	26000.	89	27541	No
35	GOM_TRA_1PNPDE20070607_023306_000000402058_00433_27541_7274.N1	07-JUN-2007 02:33:06	Straylight	39.500	141	Bet Ara	2.8400	4600.0	79	27541	No
36	GOM_TRA_1PNPDE20070607_023424_000000392058_00433_27541_7275.N1	07-JUN-2007 02:34:24	Straylight	38.500	147	Alp Ara	2.8770	26000.	77	27541	No
37	GOM_TRA_1PNPDE20070607_023607_000000432058_00433_27541_7276.N1	07-JUN-2007 02:36:07	Straylight	42.500	40	The Sco	1.8590	7100.0	85	27541	No
38	GOM_TRA_1PNPDE20070607_023753_000000462058_00433_27541_7277.N1	07-JUN-2007 02:37:53	Twilight	45.500	25	35Lam Sco	1.6200	28000.	91	27541	No
39	GOM_TRA_1PNPDE20070607_023931_000000432058_00433_27541_7278.N1	07-JUN-2007 02:39:31	Twilight	42.500	75	26Eps Sco	2.2910	4250.0	85	27541	No
40	GOM_TRA_1PNPDE20070607_024204_000000442058_00433_27541_7279.N1	07-JUN-2007 02:42:04	Bright	44.000	16	21Alp Sco	1.0200	3000.0	88	27541	No
41	GOM_TRA_1PNPDE20070607_024329_000000392058_00433_27541_7280.N1	07-JUN-2007 02:43:29	Bright	38.500	80	7Del Sco	2.3160	30000.	77	27541	No
42	GOM_TRA_1PNPDE20070607_024456_000000412058_00433_27541_7281.N1	07-JUN-2007 02:44:56	Bright	41.000	86	35Eta Oph	2.4300	10200.	82	27541	No
43	GOM_TRA_1PNPDE20070607_024644_000000392058_00433_27541_7282.N1	07-JUN-2007 02:46:44	Bright	39.000	98	13Zet Oph	2.5710	30000.	78	27541	No
44	GOM_TRA_1PNPDE20070607_024852_000000382058_00433_27541_7283.N1	07-JUN-2007 02:48:52	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	27541	No
45	GOM_TRA_1PNPDE20070607_025152_000000362058_00433_27541_7284.N1	07-JUN-2007 02:51:52	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	27541	No
46	GOM_TRA_1PNPDE20070607_025635_000000392058_00433_27541_7285.N1	07-JUN-2007 02:56:35	Bright	39.000	127	27Bet Her	2.7810	4700.0	78	27541	No
47	GOM_TRA_1PNPDE20070607_025951_000000422058_00433_27541_7286.N1	07-JUN-2007 02:59:51	Bright	42.000	133	40Zet Her	2.8070	6000.0	84	27541	No
48	GOM_TRA_1PNPDE20070607_030801_000000352058_00433_27541_7287.N1	07-JUN-2007 03:08:01	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	27541	No
49	GOM_TRA_1PNPDE20070607_031102_000000362058_00433_27541_7288.N1	07-JUN-2007 03:11:02	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	27541	No
50	GOM_TRA_1PNPDE20070607_031544_000000362058_00433_27541_7289.N1	07-JUN-2007 03:15:44	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	27541	No

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



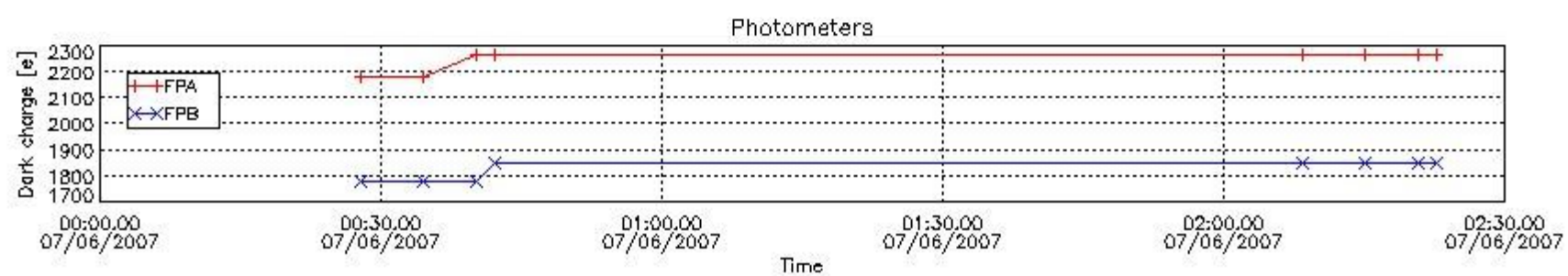
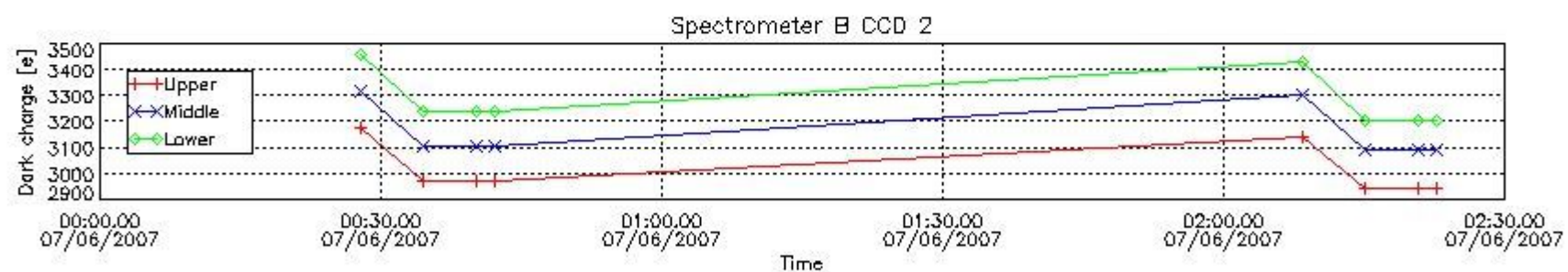
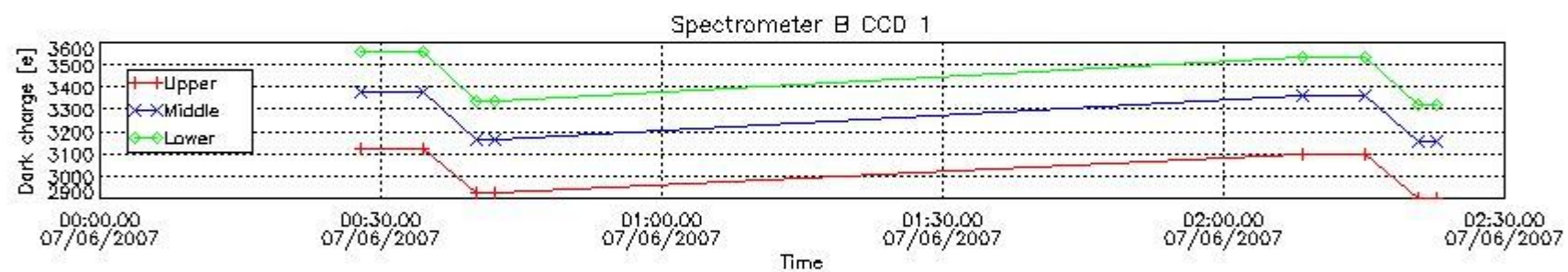
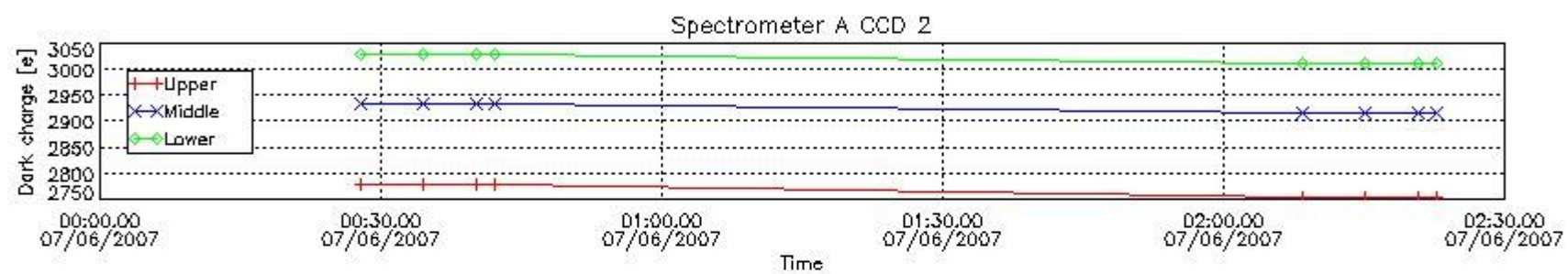
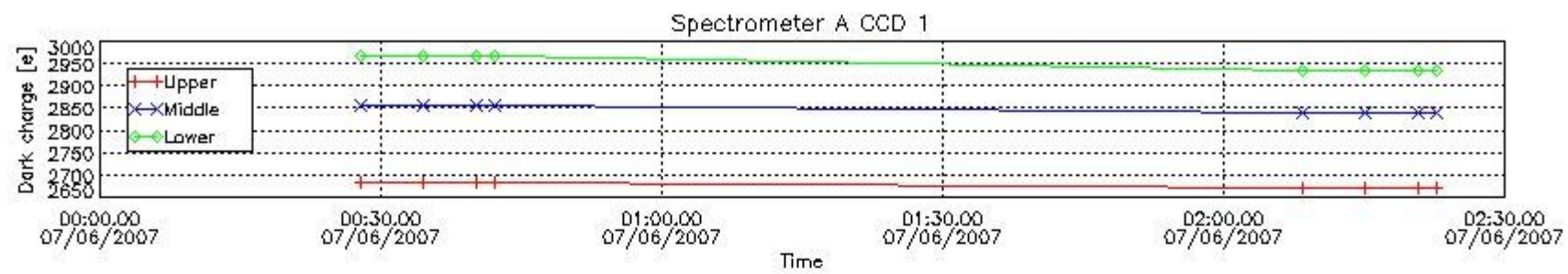
4. Overview of dark signal processing per product

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



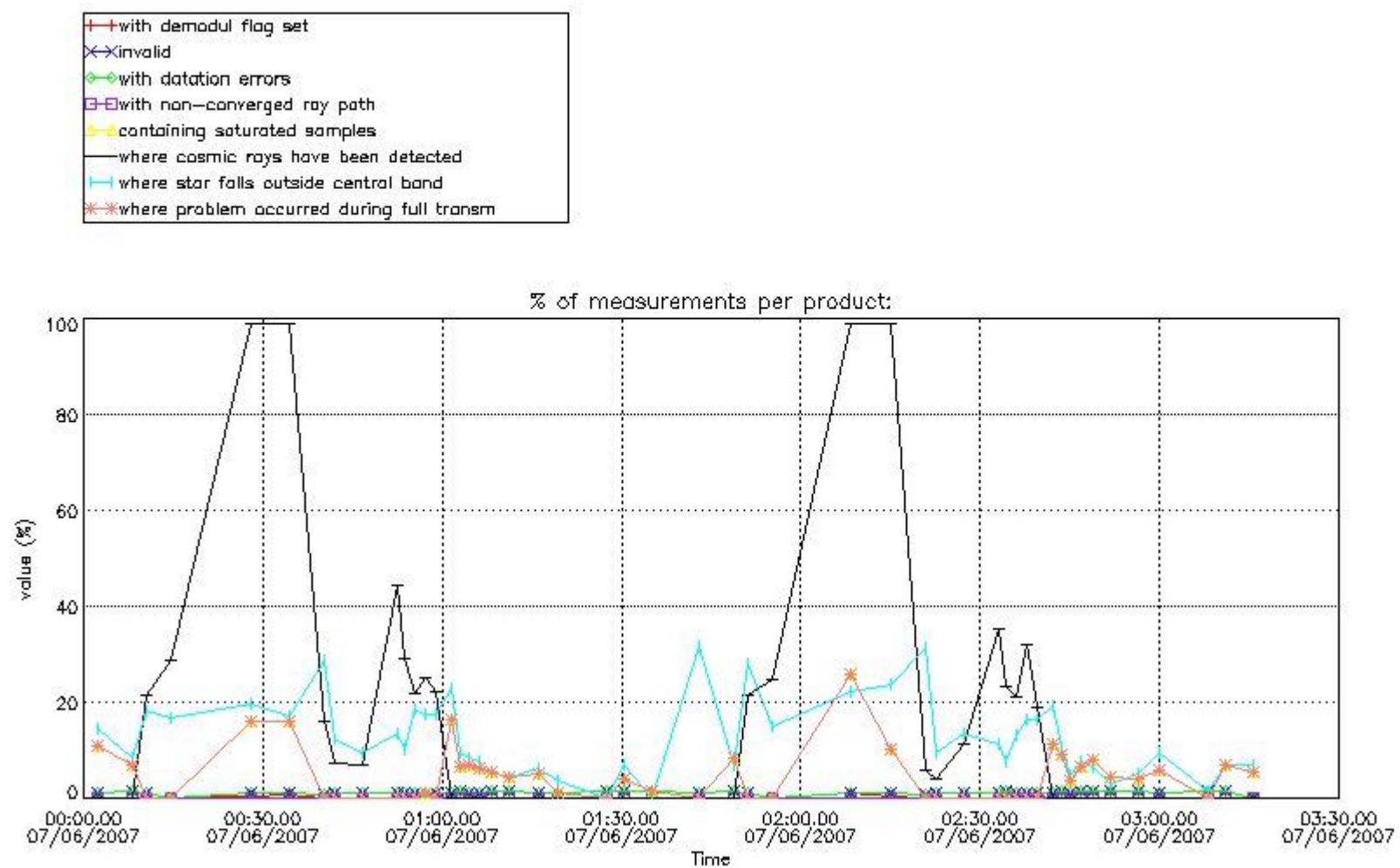
5. Demodulation flag and quality information monitoring

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.

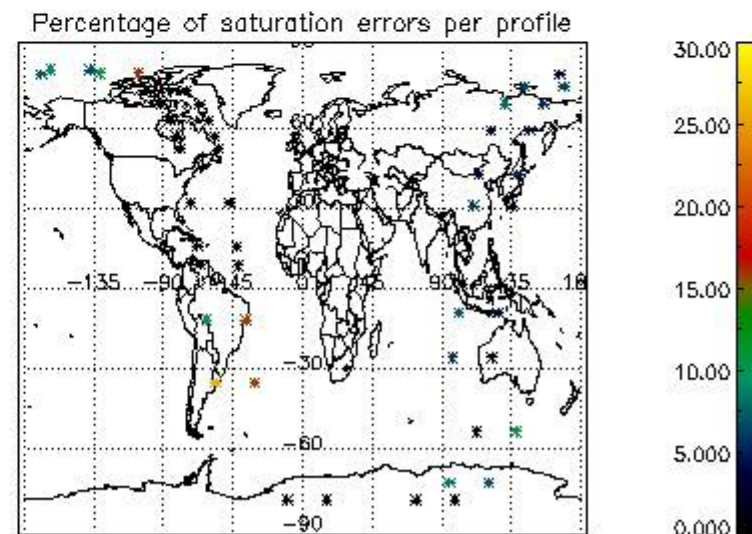
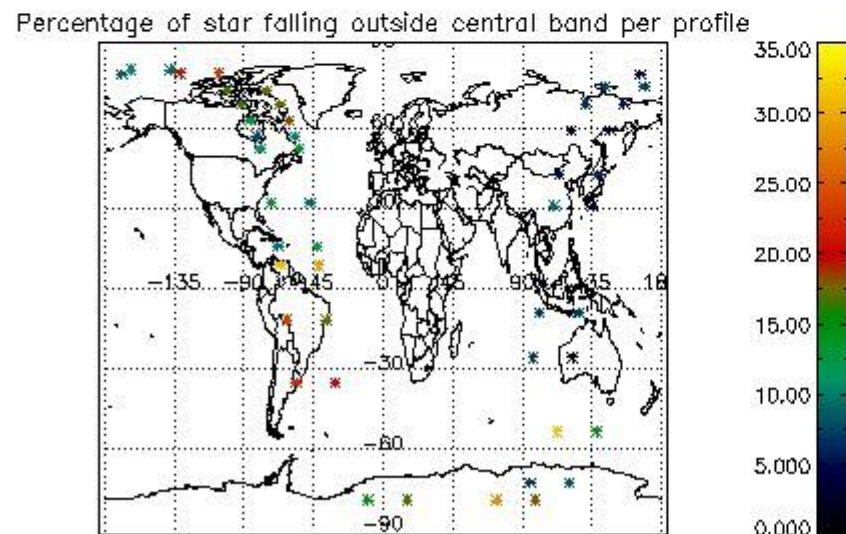
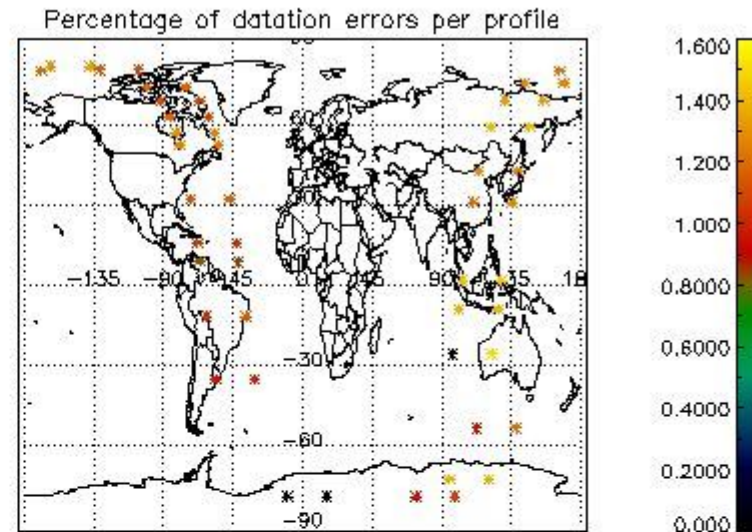
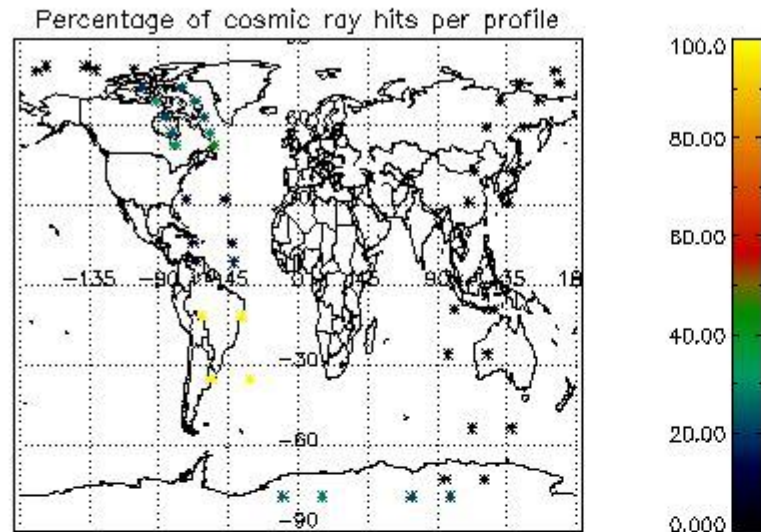
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



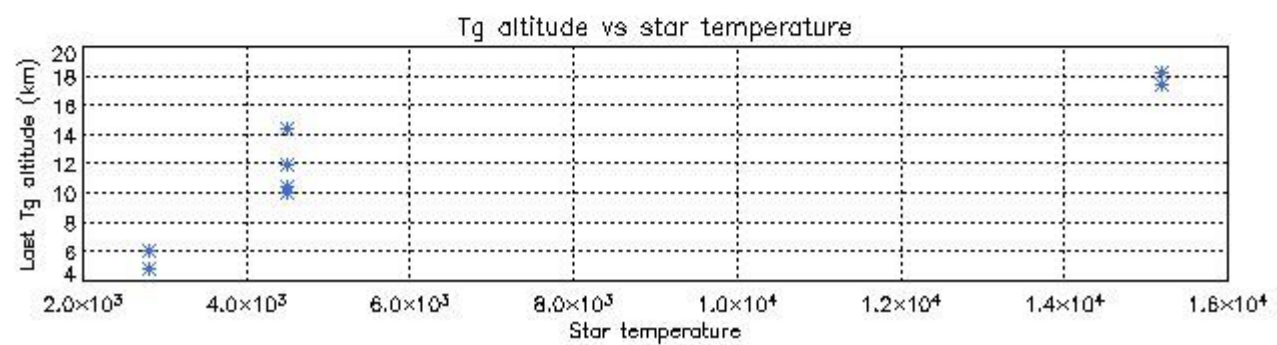
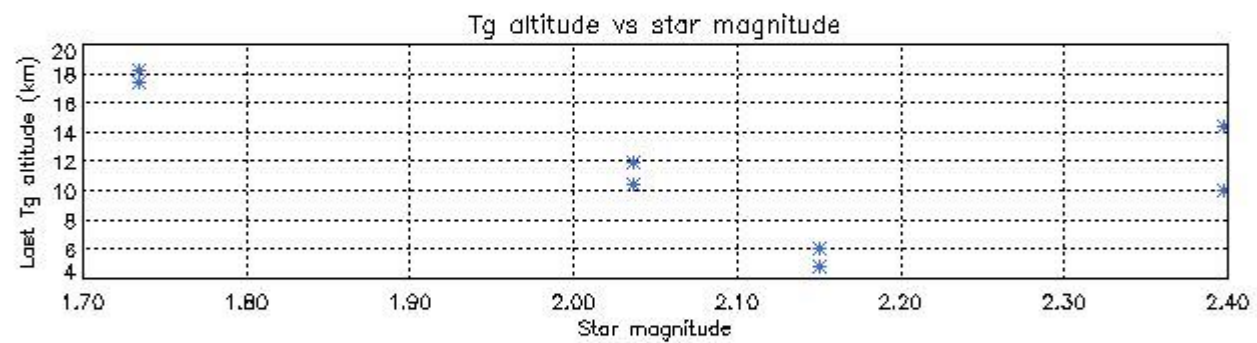
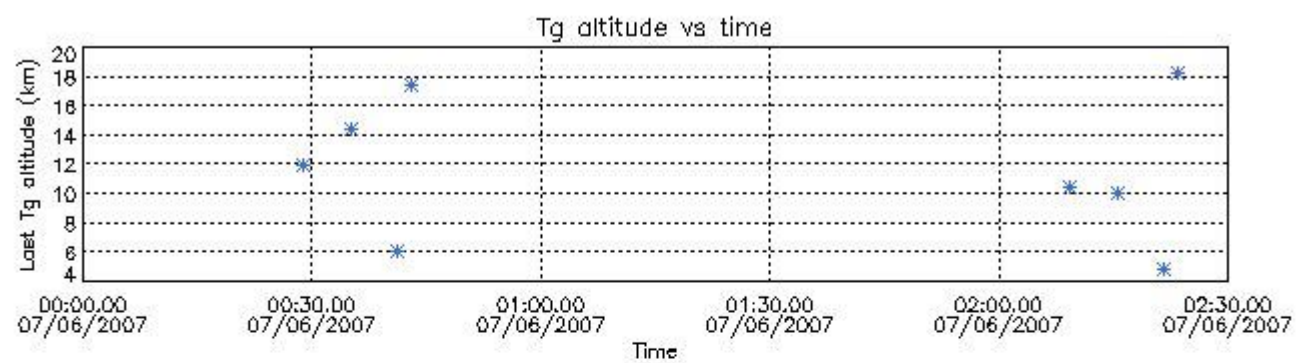
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.620	19.425	14.540
St. deviation:	4.8679	5.2016	0.90385
Maximum:	18.165	28.907	15.179
Minimum:	4.8098	6.9257	13.901
Number of data:	8.0000	28.000	2.0000

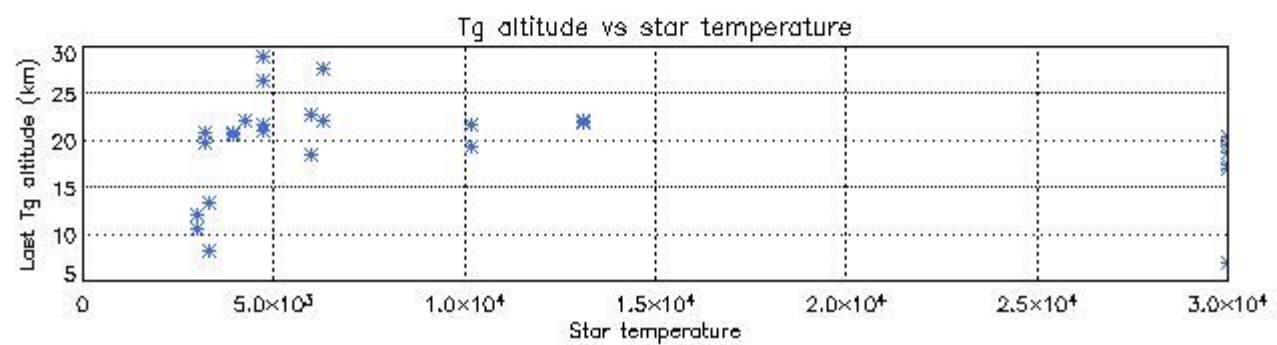
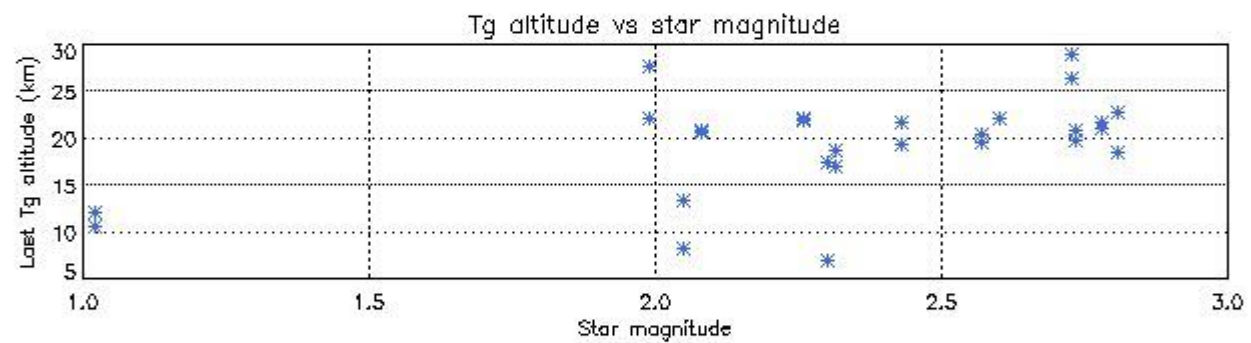
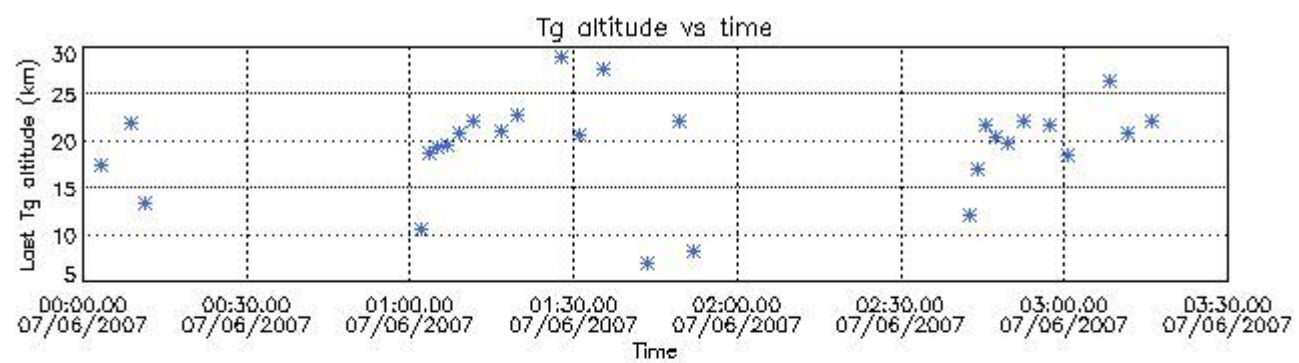
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



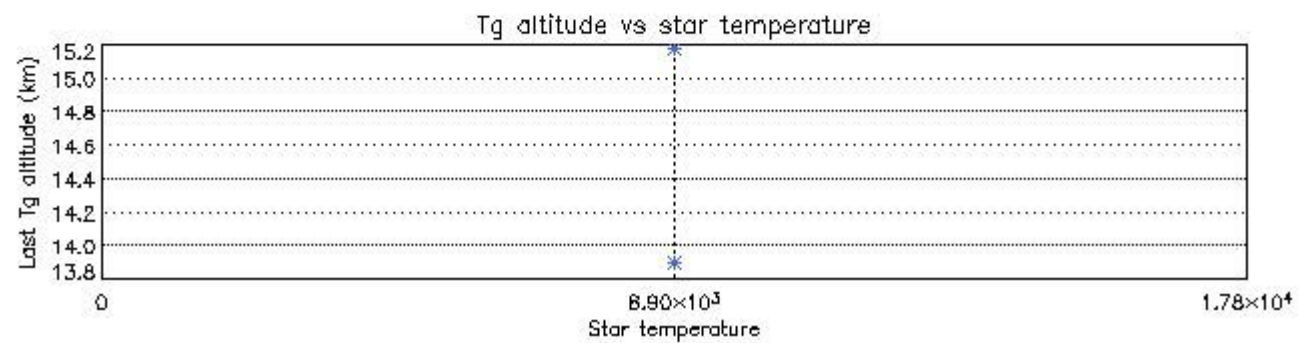
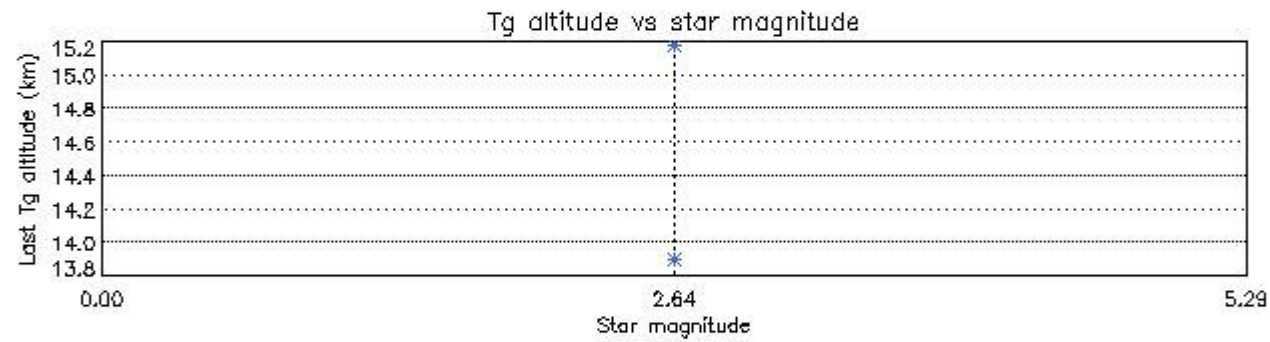
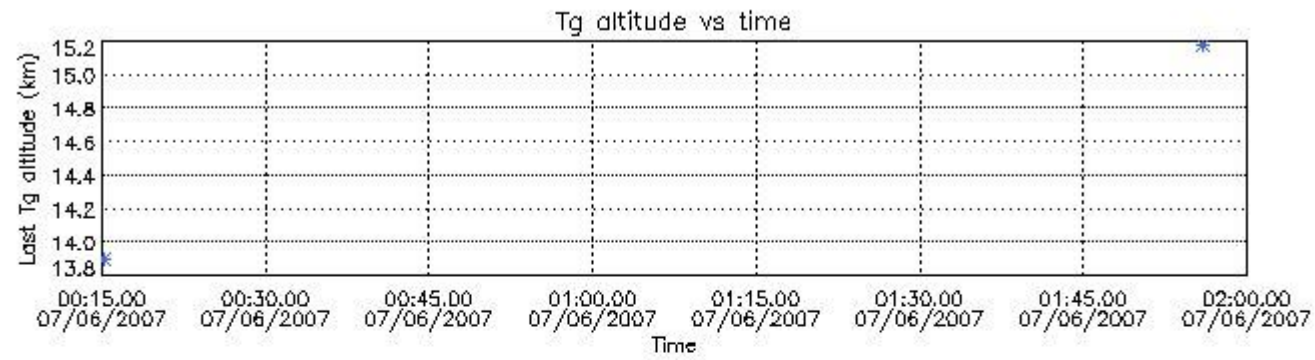
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

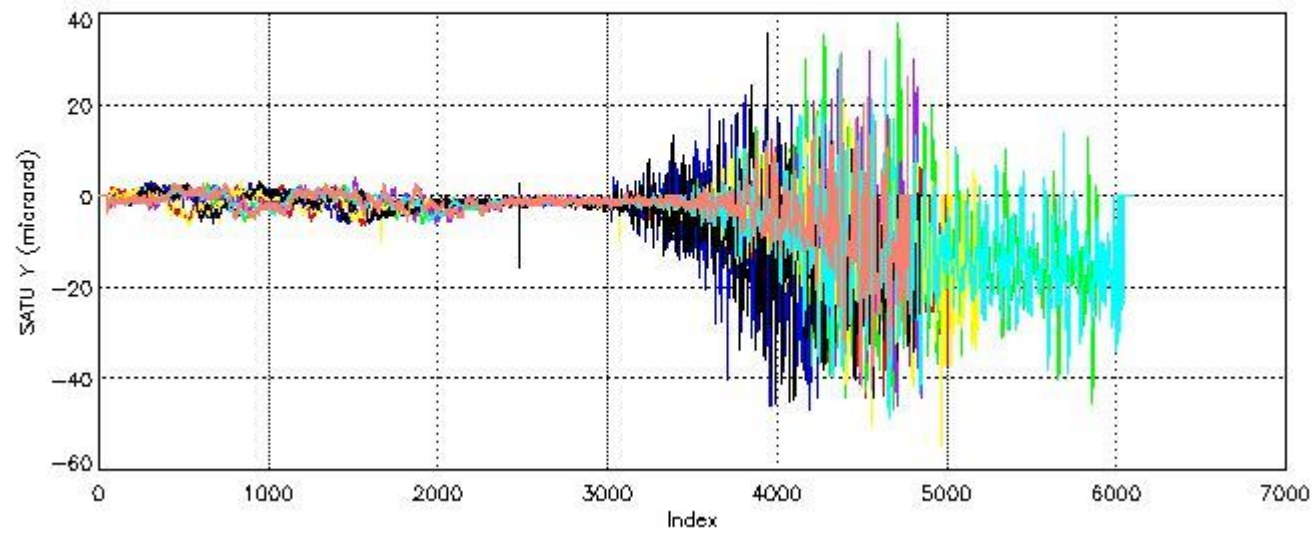
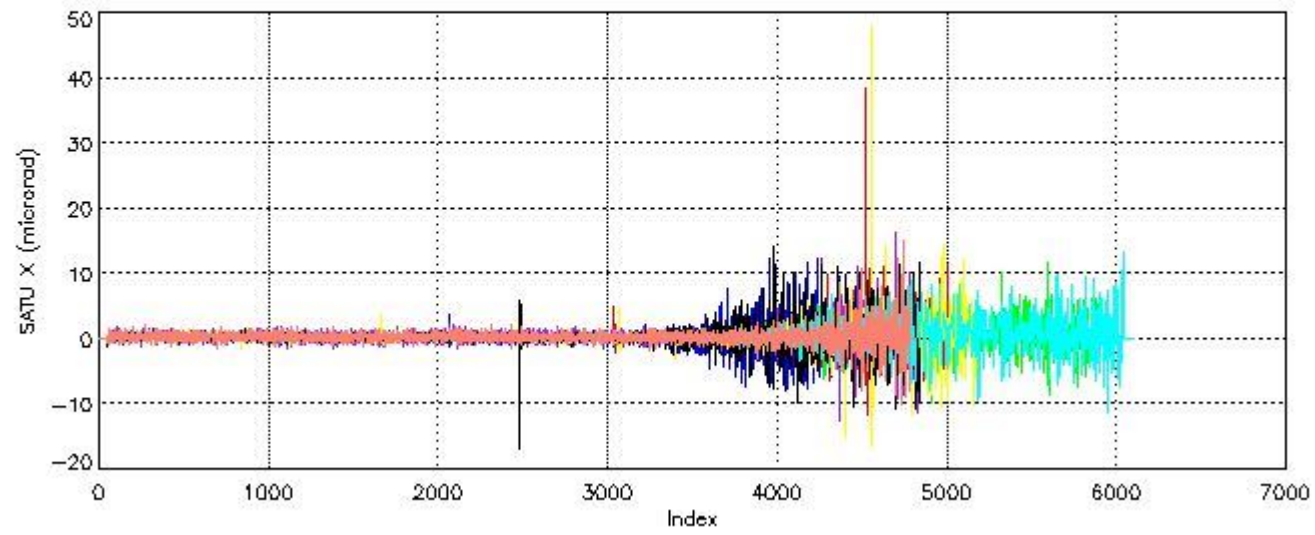


7. Star Acquisition and Tracking Unit (SATU)

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:	0.25872	-0.78890	0.17912	-0.81944
St. deviation:	0.33197	1.6916	0.60090	2.3606
Maximum:	2.2000	3.2000	3.9000	5.8000
Minimum:	-1.5000	-6.5000	-4.8000	-12.900

Number of data:	8600.0	8600.0	24500.	24500.
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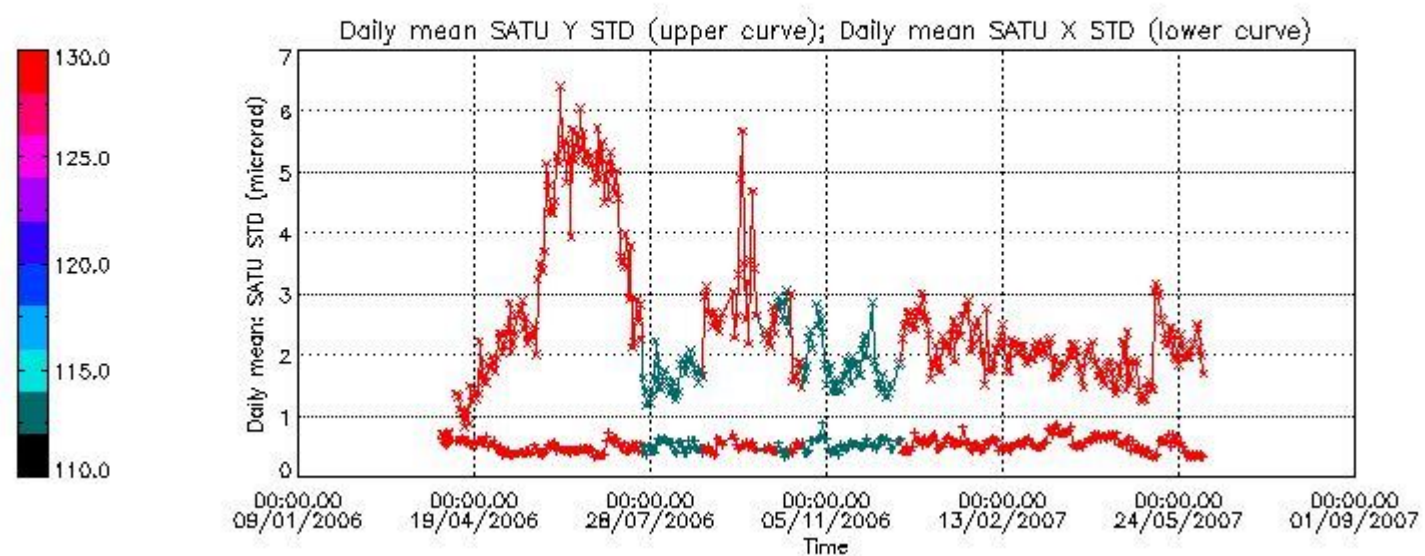
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

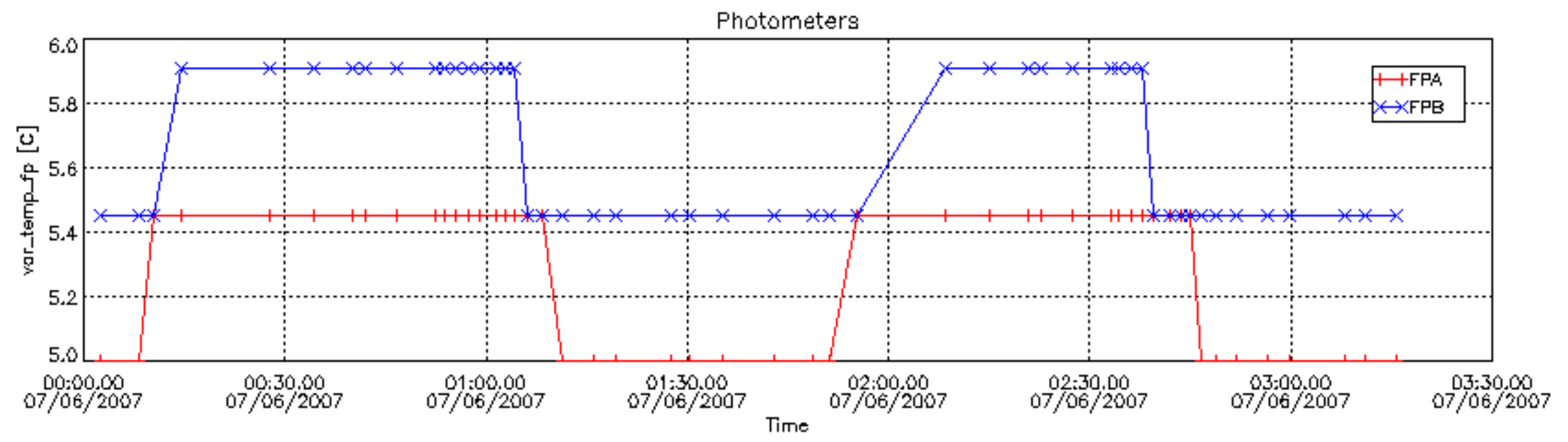
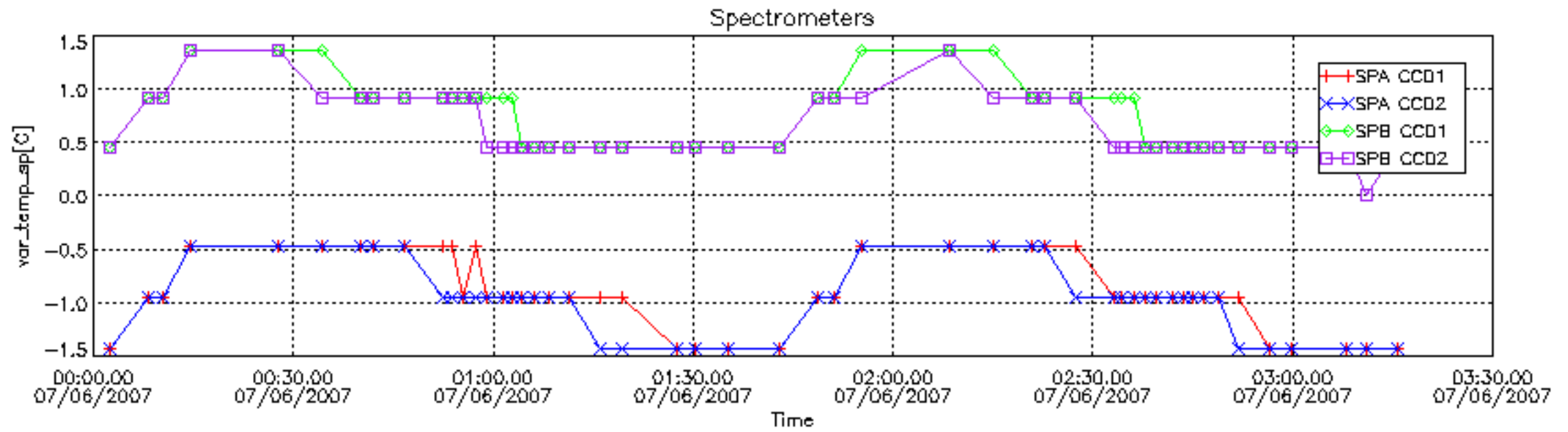
Lower curve: STD of SATU X axis

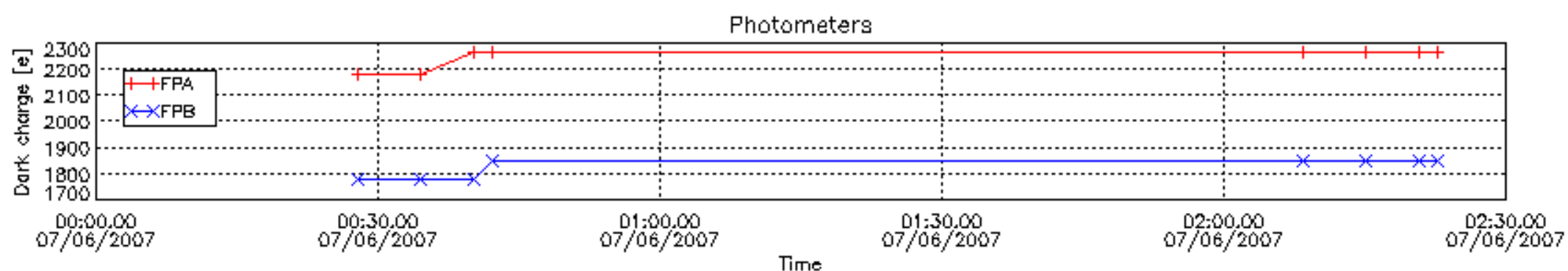
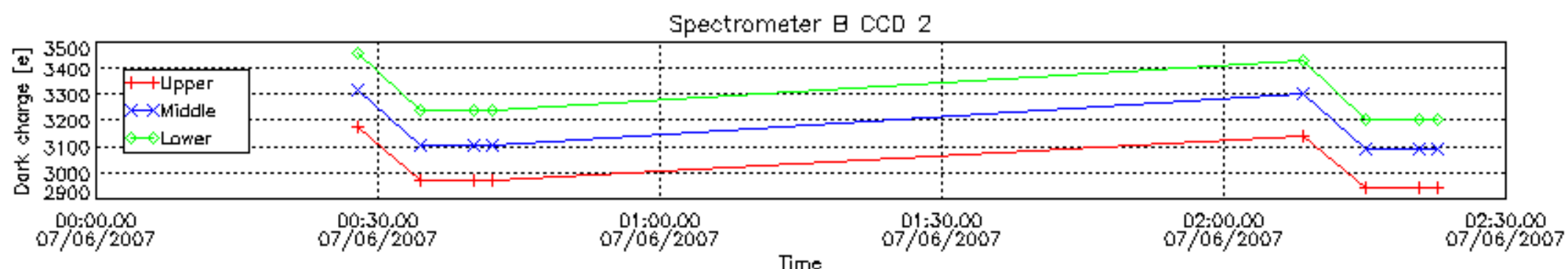
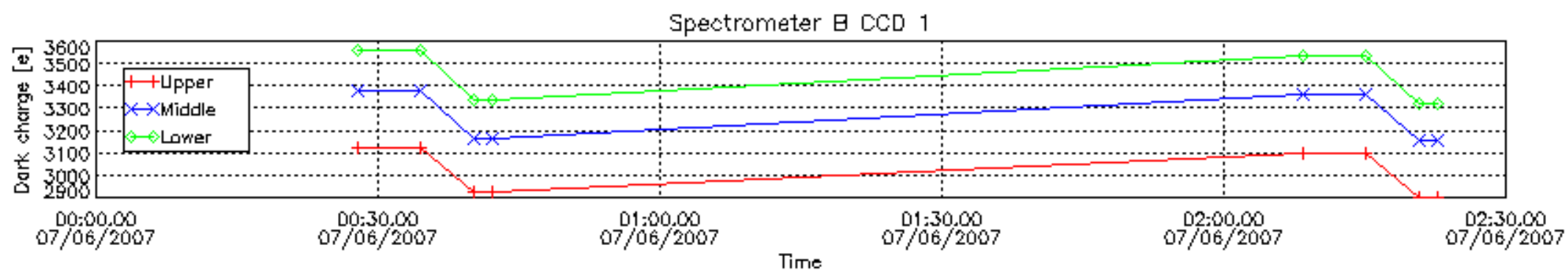
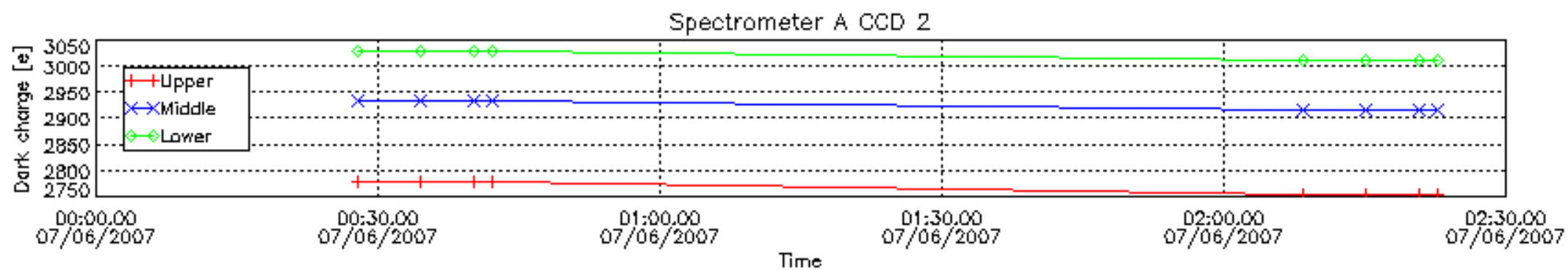
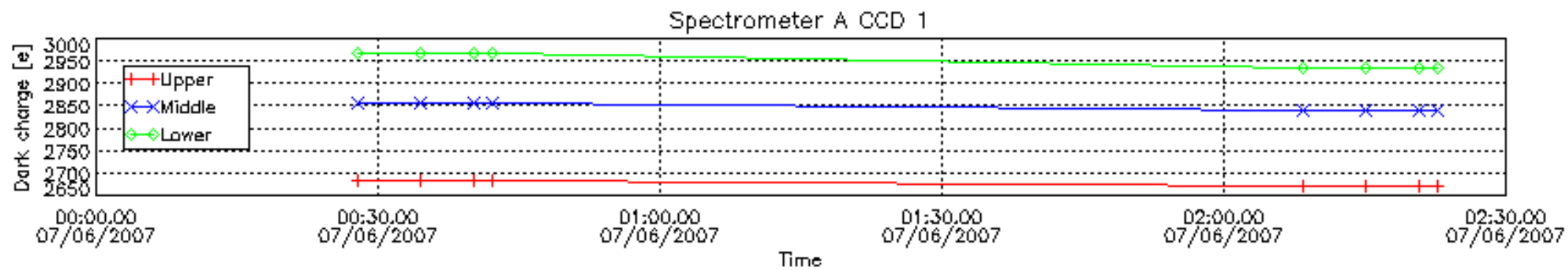


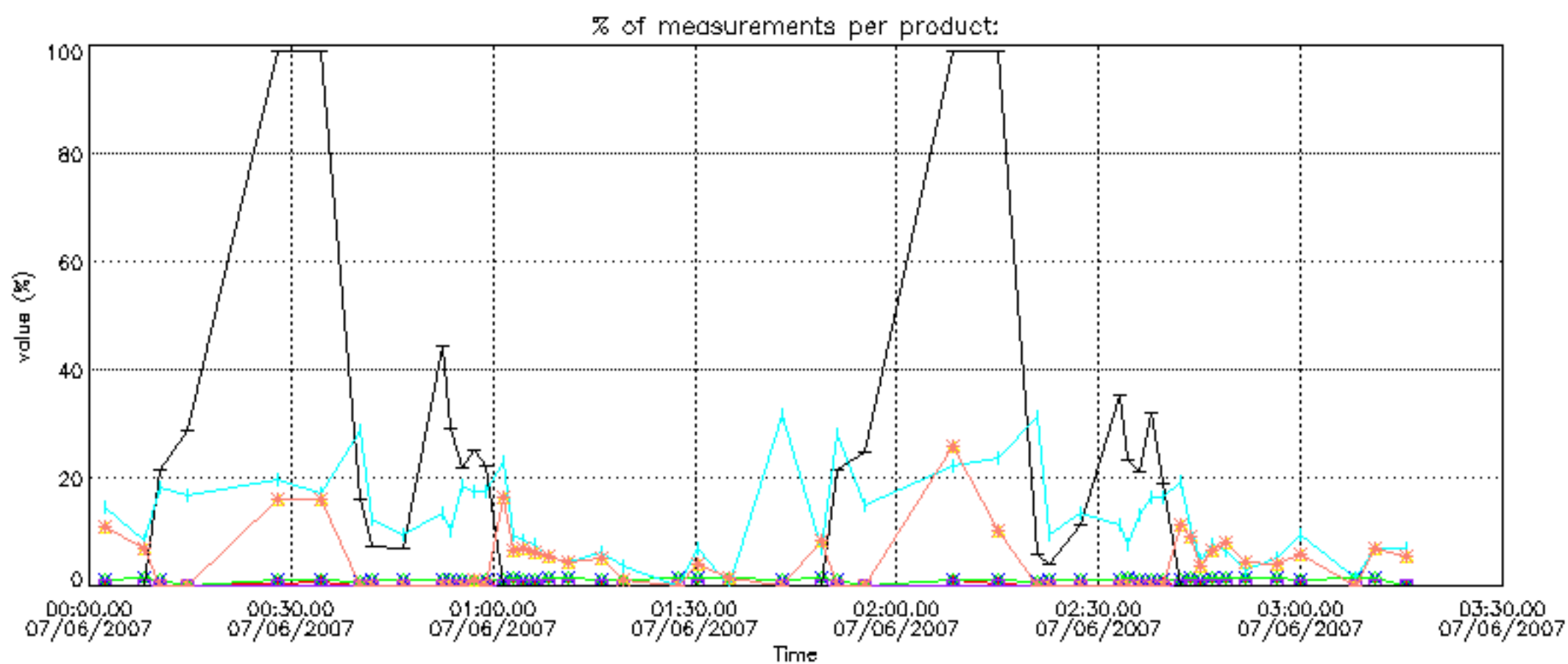
8. Auxiliary Data Files used for the production reported in section 2.4

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.

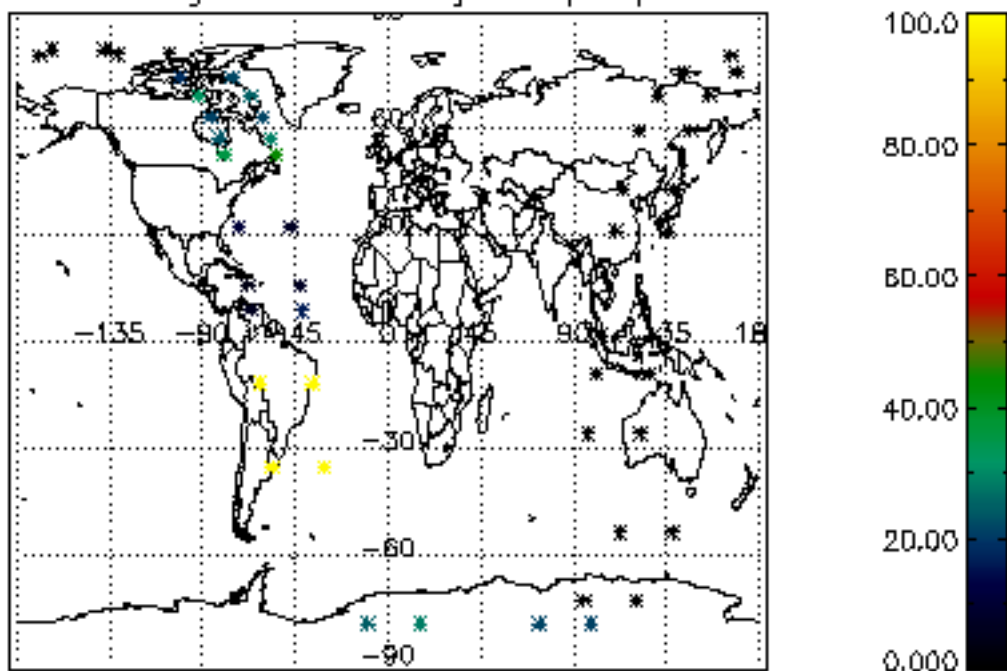
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	07-JUN-2007 00:02:25
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070605_142211_20070604_000000_20100101_000000	1	07-JUN-2007 00:02:25
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	07-JUN-2007 00:02:25
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-JUN-2007 00:02:25
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	07-JUN-2007 00:02:25
ECMWF_FILE	AUX_ECF_AXNECM20070606_062110_20070606_210000_20070607_090000	1	07-JUN-2007 00:02:25
OPTIONAL_ECMWF_FILE	MISSING	1	07-JUN-2007 00:02:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070606_205718_000060572058_00429_27537_3638.N1	1	07-JUN-2007 00:02:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070606_224334_000057382058_00430_27538_3639.N1	5	07-JUN-2007 00:27:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070607_002431_000054192058_00431_27539_3640.N1	30	07-JUN-2007 02:08:28



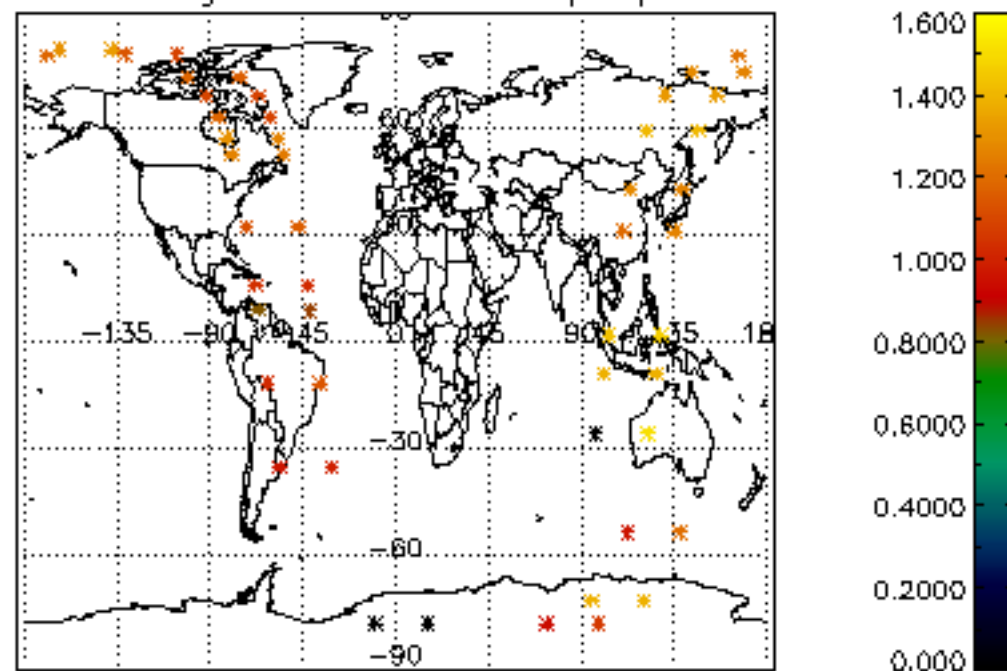




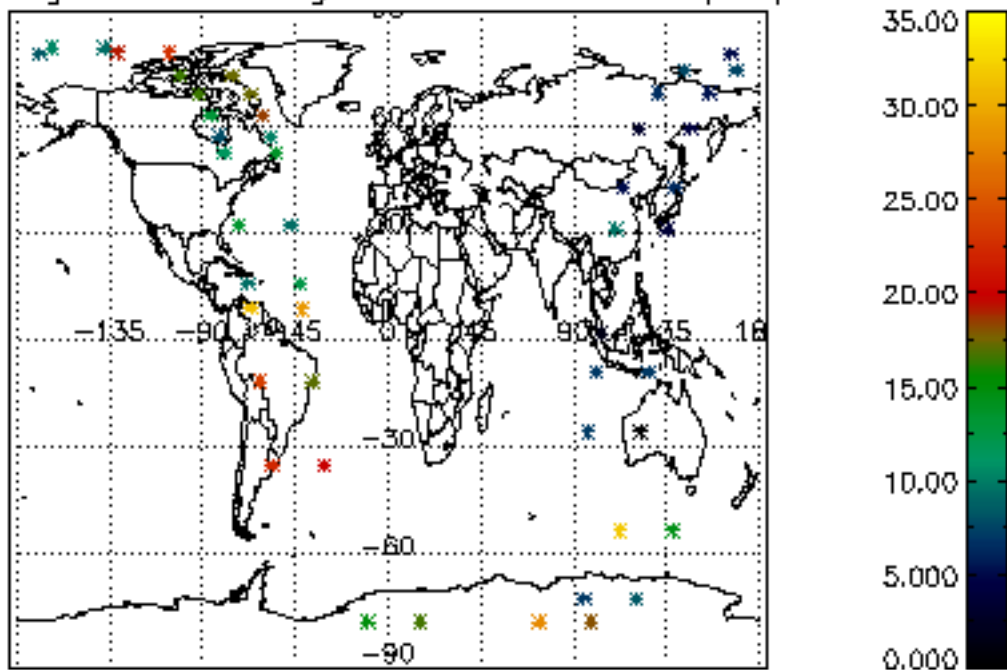
Percentage of cosmic ray hits per profile



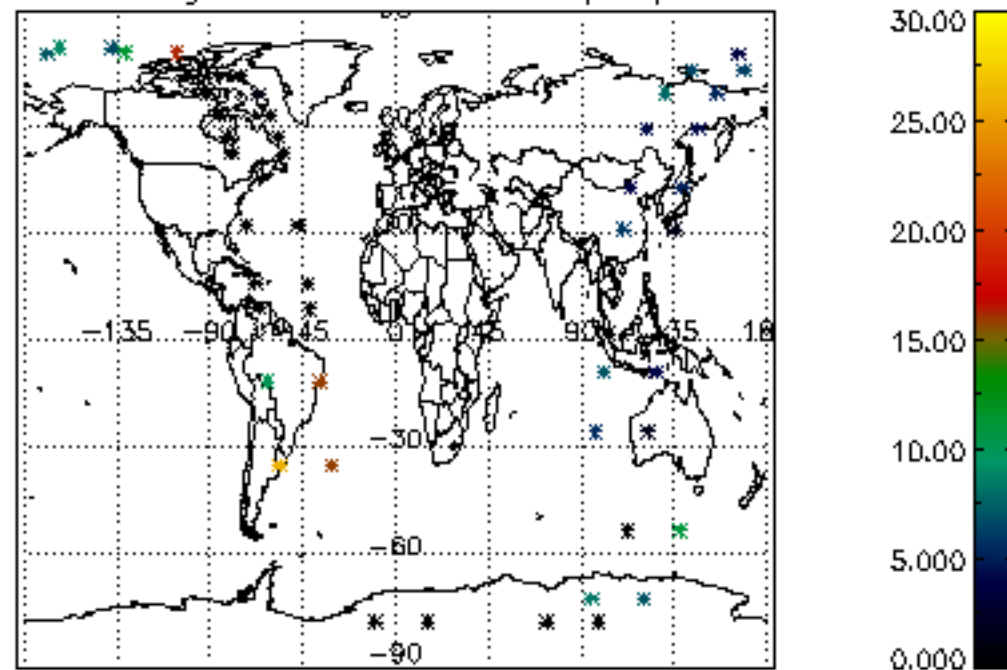
Percentage of datation errors per profile



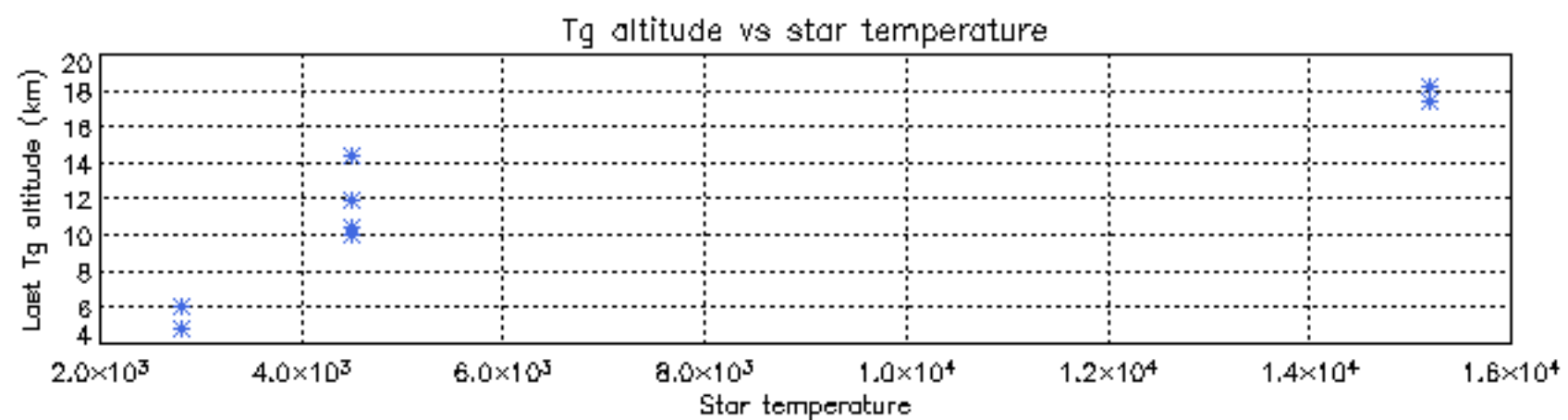
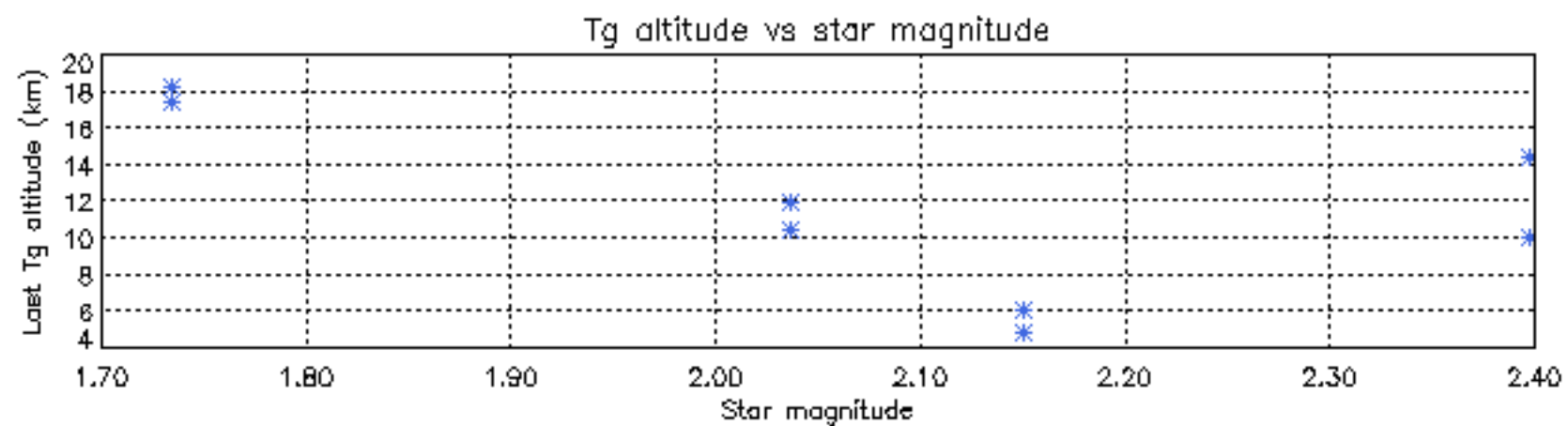
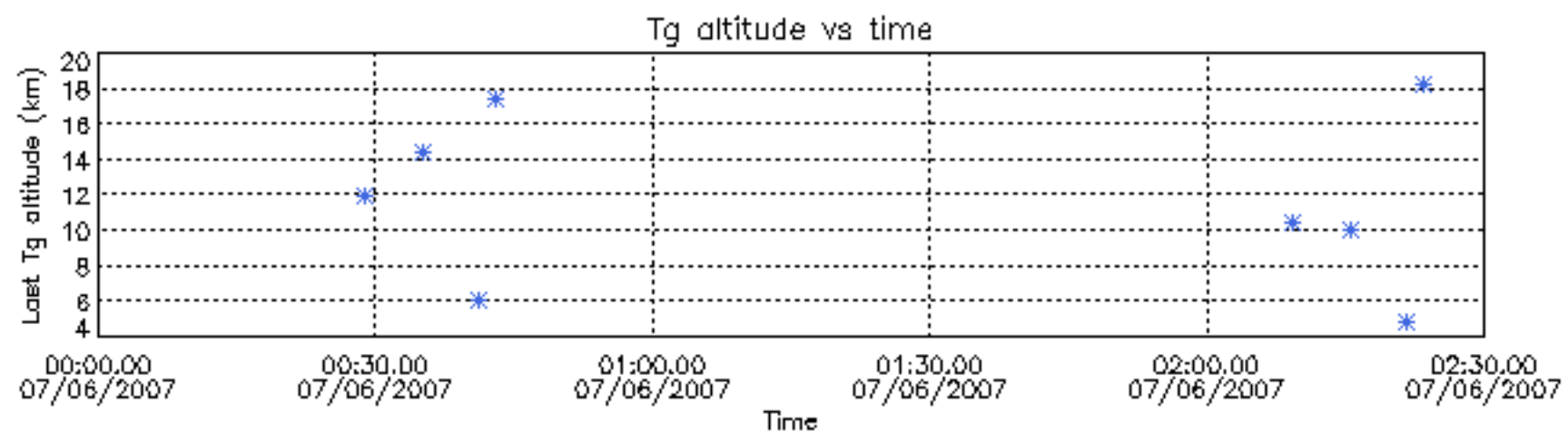
Percentage of star falling outside central band per profile



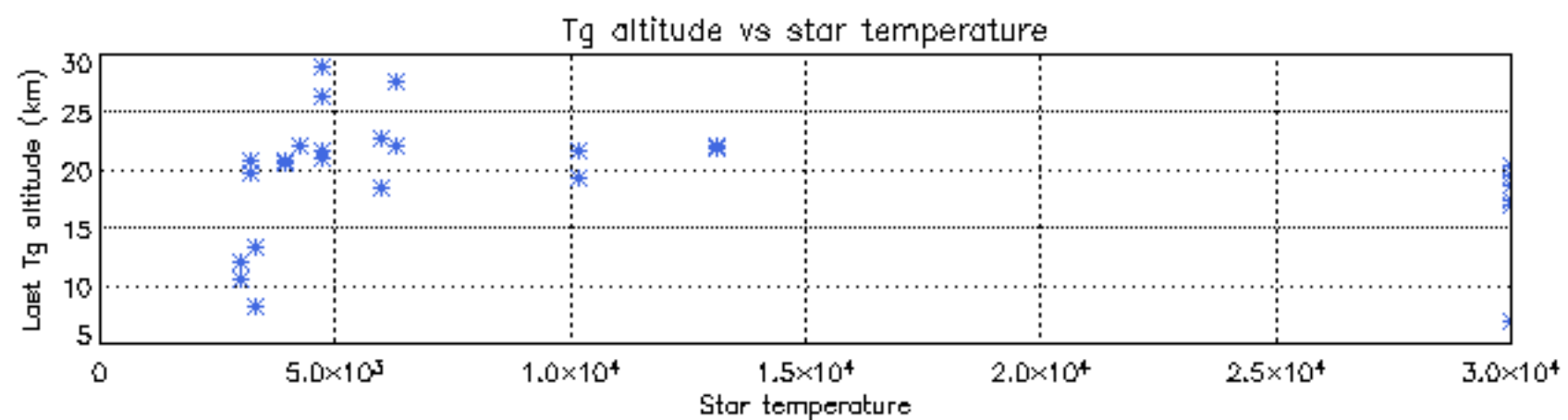
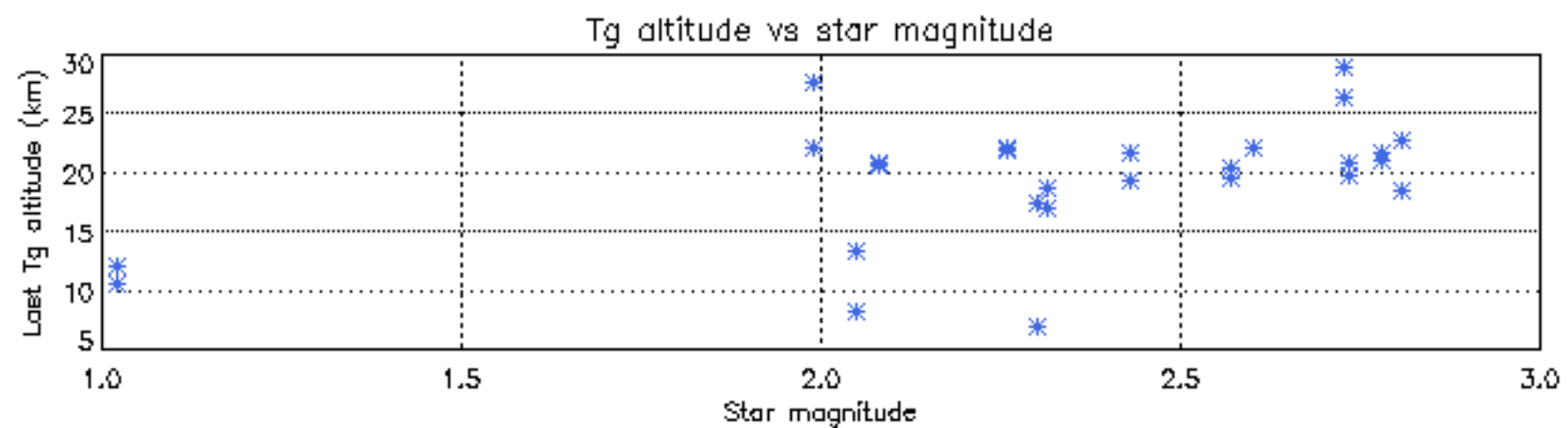
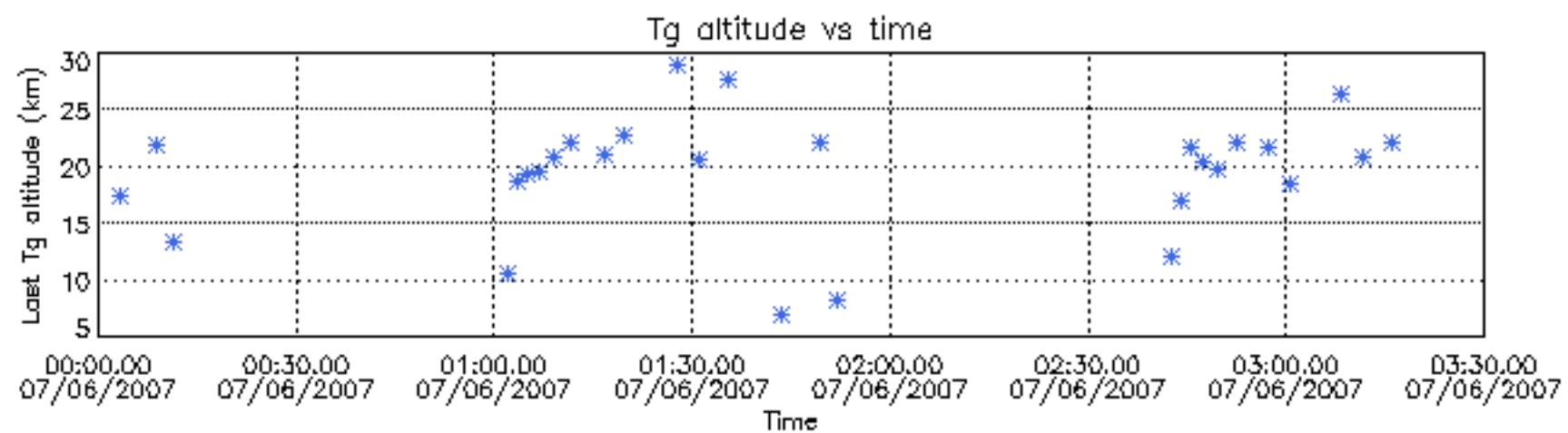
Percentage of saturation errors per profile



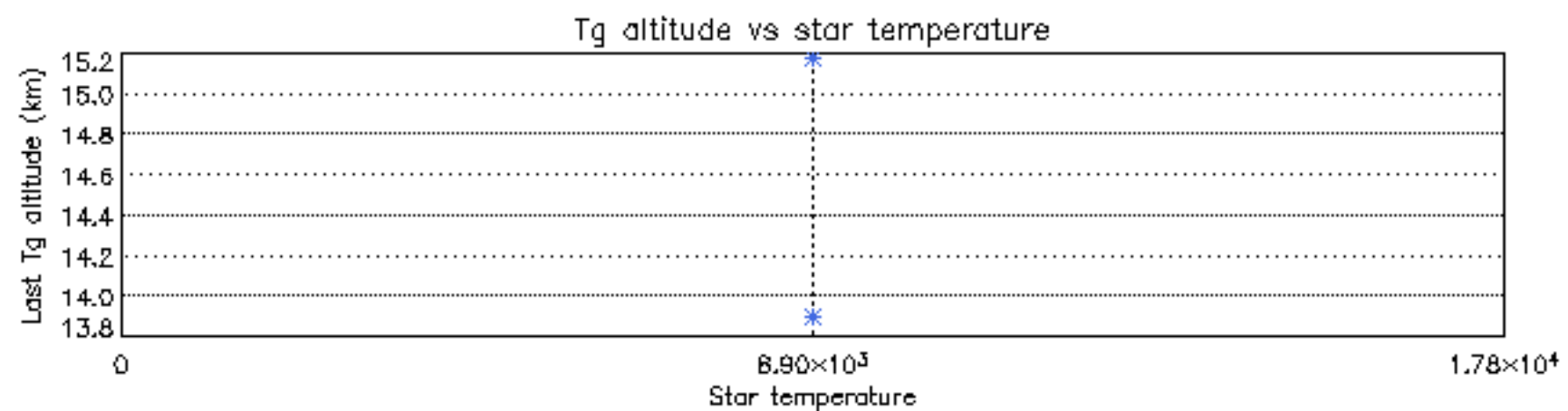
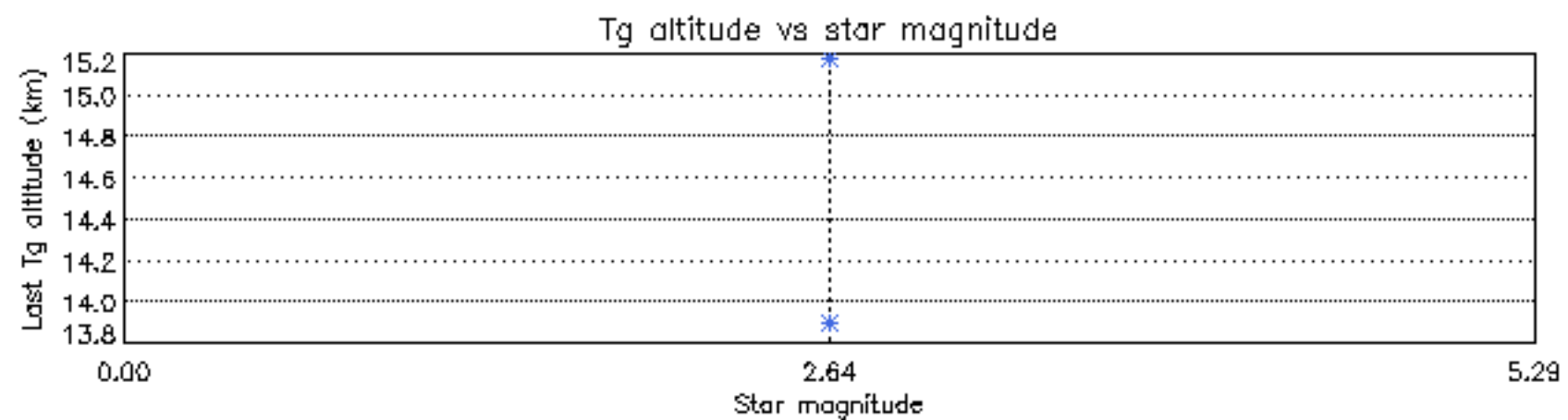
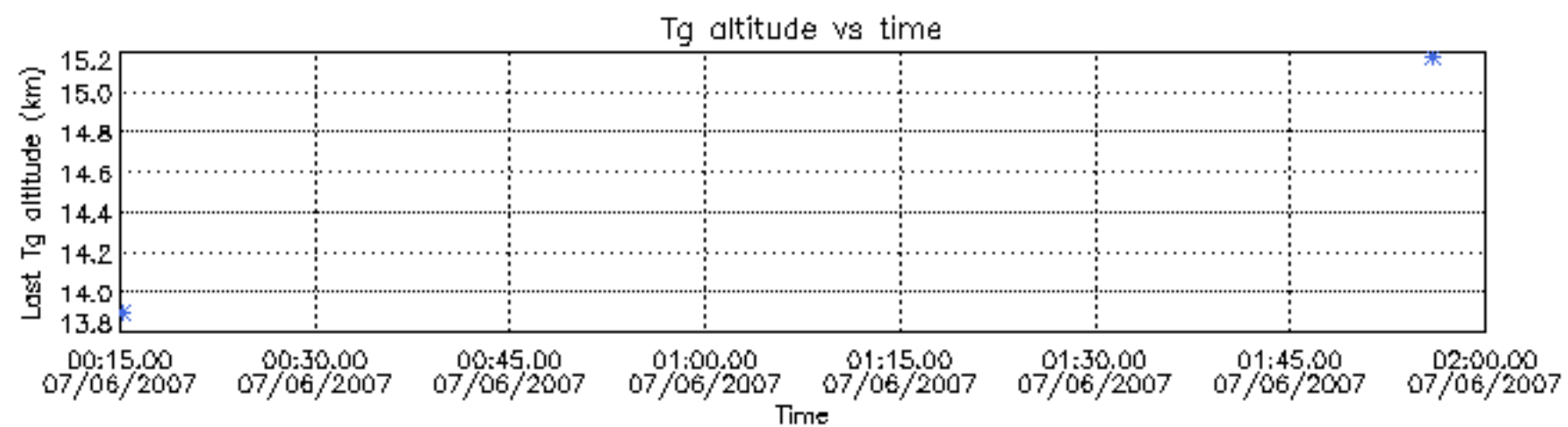
Tangent altitude at which the star is lost

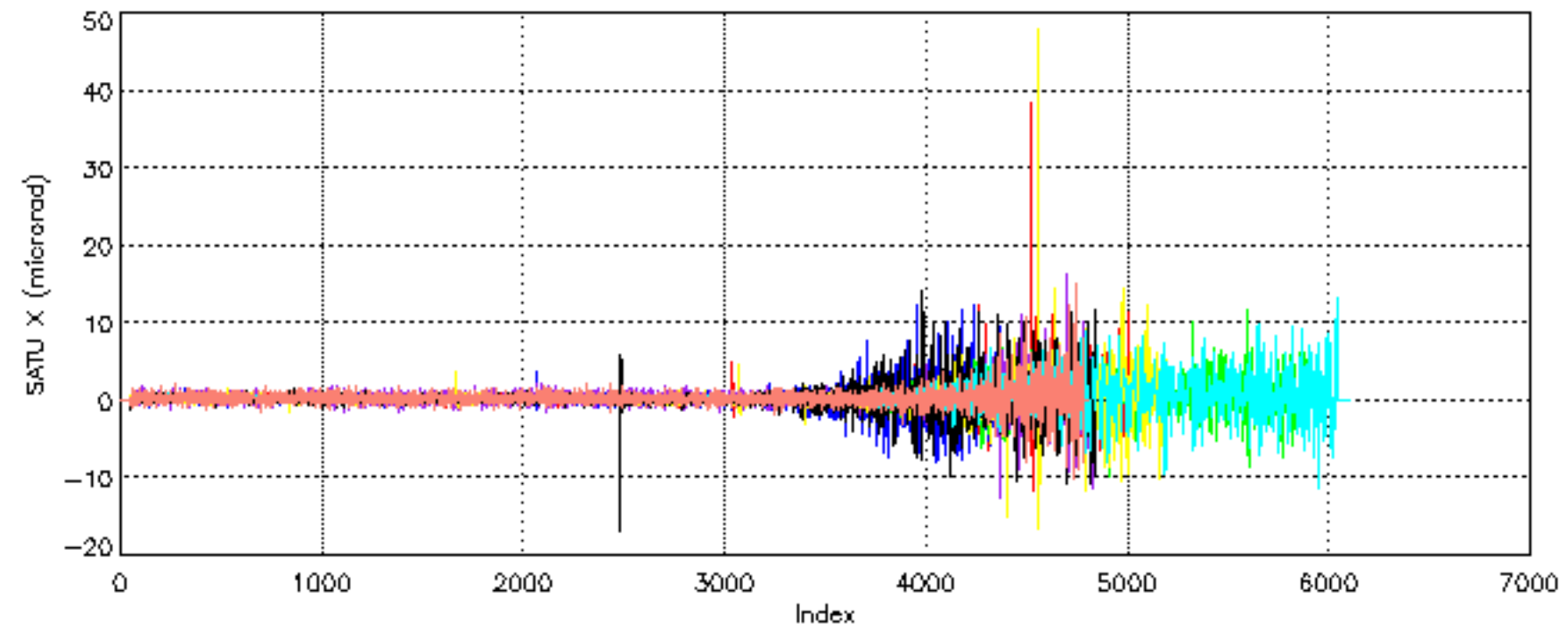


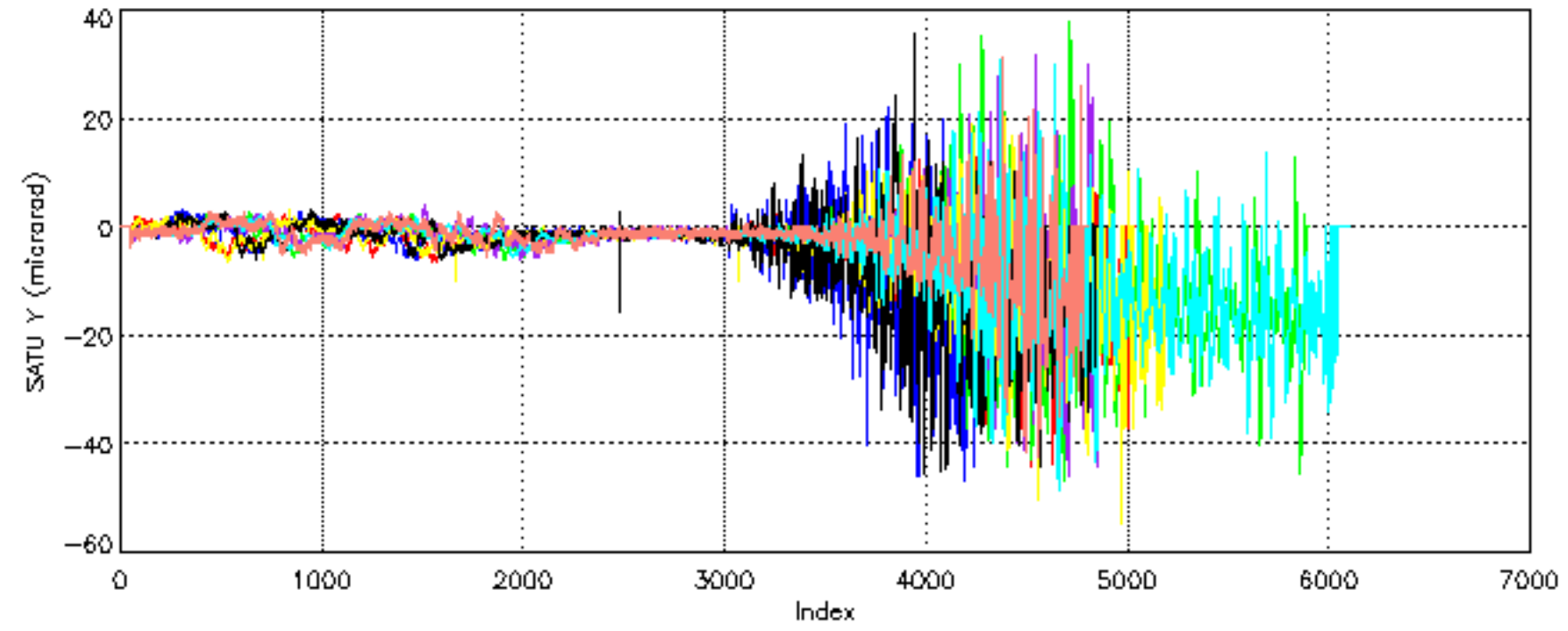
Tangent altitude at which the star is lost

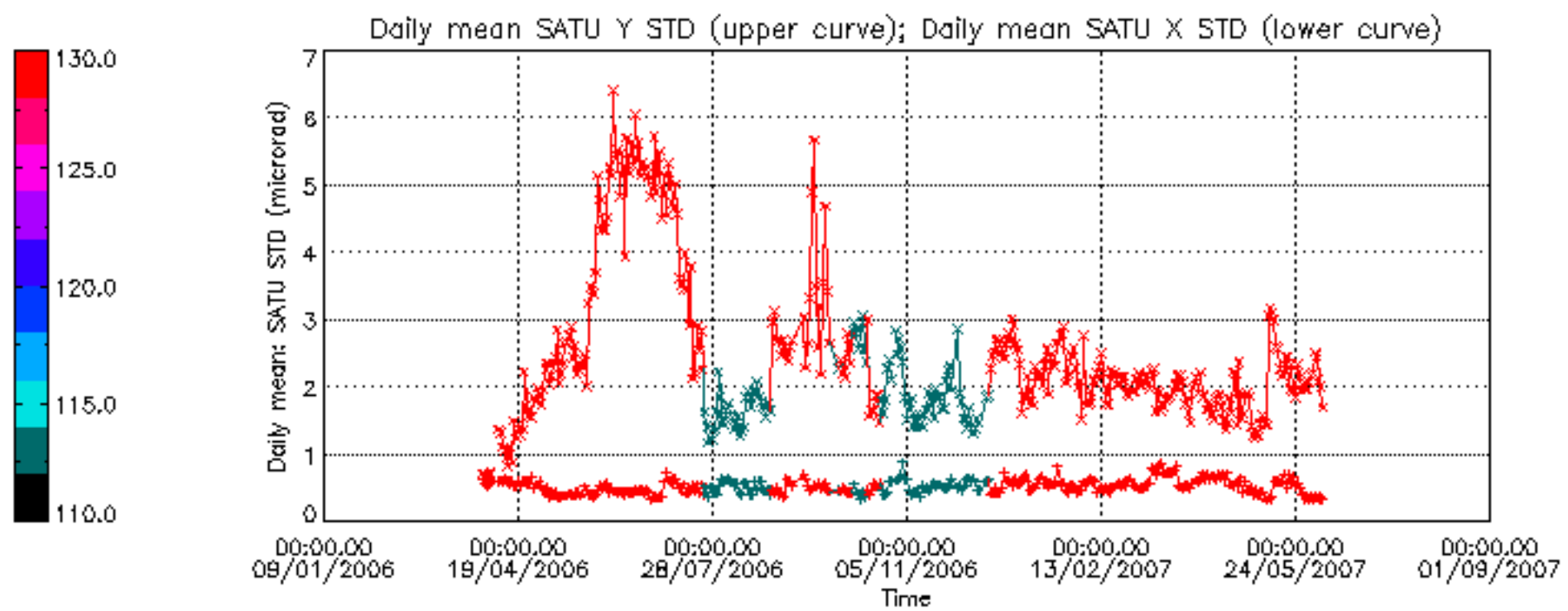


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070601_001523_000050842058_00345_27453_3813.N1

1; -648.0; 01-JUN-2007 00:15:23; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;27453
2; -387.5; 01-JUN-2007 00:19:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27453
3; -245.5; 01-JUN-2007 00:22:06; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;27453
4; 71.8; 01-JUN-2007 00:27:23; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27454
5; 183.7; 01-JUN-2007 00:29:15; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;27454
6; 483.8; 01-JUN-2007 00:34:15; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27454
7; 857.6; 01-JUN-2007 00:40:29; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27454
8; 932.4; 01-JUN-2007 00:41:44; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;27454
9; 1033.6; 01-JUN-2007 00:43:25; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27454
10; 1141.6; 01-JUN-2007 00:45:13; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;27454
11; 1248.8; 01-JUN-2007 00:47:00; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;27454
12; 1430.2; 01-JUN-2007 00:50:01; Bright; 39.0; 156; 20Sig Sco ; 2.90; 28000;occ; 78; 0;27454
13; 1543.0; 01-JUN-2007 00:51:54; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27454
14; 1702.3; 01-JUN-2007 00:54:34; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;27454
15; 1834.1; 01-JUN-2007 00:56:45; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27454
16; 2015.0; 01-JUN-2007 00:59:46; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27454
17; 2369.9; 01-JUN-2007 01:05:41; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27454
18; 3006.7; 01-JUN-2007 01:16:18; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27454
19; 3166.1; 01-JUN-2007 01:18:57; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27454
20; 3446.7; 01-JUN-2007 01:23:38; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27454
21; 3929.6; 01-JUN-2007 01:31:41; Bright; 55.0; 76; 27Gam Cas ; 2.30; 30000;occ; 110; 0;27454
22; 4393.6; 01-JUN-2007 01:39:25; Bright; 43.0; 53; 43Bet And ; 2.05; 3300;occ; 86; 0;27454

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070601_015600_000041292058_00346_27454_3814.N1

1; -647.3; 01-JUN-2007 01:56:00; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;27454
2; -387.1; 01-JUN-2007 02:00:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27454
3; -244.9; 01-JUN-2007 02:02:42; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;27454
4; 72.6; 01-JUN-2007 02:08:00; Dark ; 60.0; 63; Bet Gru ; 2.15; 2800;occ; 120; 0;27455
5; 184.6; 01-JUN-2007 02:09:52; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27455
6; 484.5; 01-JUN-2007 02:14:52; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27455
7; 858.0; 01-JUN-2007 02:21:05; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;27455
8; 932.9; 01-JUN-2007 02:22:20; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27455
9; 1034.0; 01-JUN-2007 02:24:01; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27455
10; 1142.0; 01-JUN-2007 02:25:49; Dark ; 48.5; 25; 35Lam Sco ; 1.62; 28000;occ; 97; 0;27455
11; 1249.1; 01-JUN-2007 02:27:36; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;27455
12; 1430.5; 01-JUN-2007 02:30:38; Bright; 40.0; 156; 20Sig Sco ; 2.90; 28000;occ; 80; 0;27455
13; 1543.3; 01-JUN-2007 02:32:30; Bright; 39.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 78; 0;27455
14; 1702.4; 01-JUN-2007 02:35:10; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27455
15; 1834.1; 01-JUN-2007 02:37:21; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27455
16; 2014.9; 01-JUN-2007 02:40:22; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27455
17; 2369.8; 01-JUN-2007 02:46:17; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;27455
18; 3006.5; 01-JUN-2007 02:56:54; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27455
19; 3166.1; 01-JUN-2007 02:59:33; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27455
20; 3446.8; 01-JUN-2007 03:04:14; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27455

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1; -2106.4; 01-JUN-2007 03:12:17; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;27455
2; -1642.2; 01-JUN-2007 03:20:01; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;27455
3; -646.8; 01-JUN-2007 03:36:36; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;27455
4; -386.7; 01-JUN-2007 03:40:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27455
5; -244.3; 01-JUN-2007 03:43:19; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;27455
6; 73.6; 01-JUN-2007 03:48:37; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;27456
7; 185.6; 01-JUN-2007 03:50:29; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;27456
8; 485.4; 01-JUN-2007 03:55:28; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27456
9; 858.6; 01-JUN-2007 04:01:42; Dark ; 45.0; 141; Bet Ara ; 2.84; 4600;occ; 90; 0;27456
10; 933.3; 01-JUN-2007 04:02:56; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;27456
11; 1034.5; 01-JUN-2007 04:04:38; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;27456
12; 1142.6; 01-JUN-2007 04:06:26; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;27456
13; 1249.5; 01-JUN-2007 04:08:13; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;27456
14; 1409.3; 01-JUN-2007 04:10:52; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;27456
15; 1543.7; 01-JUN-2007 04:13:07; Bright; 38.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 77; 0;27456
16; 1702.6; 01-JUN-2007 04:15:46; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27456
17; 1834.3; 01-JUN-2007 04:17:57; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27456
18; 2015.1; 01-JUN-2007 04:20:58; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27456
19; 2369.8; 01-JUN-2007 04:26:53; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;27456
20; 3006.3; 01-JUN-2007 04:37:29; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27456
21; 3166.2; 01-JUN-2007 04:40:09; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;27456
22; 3446.8; 01-JUN-2007 04:44:50; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;27456

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 2; -1642.2; 01-JUN-2007 05:00:37; Bright; 44.0; 53; 43Bet And ; 2.05; 3300;occ; 88; 0;27456
 3; -646.1; 01-JUN-2007 05:17:13; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;27456
 4; -386.2; 01-JUN-2007 05:21:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27456
 5; -243.8; 01-JUN-2007 05:23:55; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;27456
 6; 74.4; 01-JUN-2007 05:29:13; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27457
 7; 186.6; 01-JUN-2007 05:31:06; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27457
 8; 486.0; 01-JUN-2007 05:36:05; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27457
 9; 858.9; 01-JUN-2007 05:42:18; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;27457
 10; 933.9; 01-JUN-2007 05:43:33; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27457
 11; 1034.9; 01-JUN-2007 05:45:14; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;27457
 12; 1143.0; 01-JUN-2007 05:47:02; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;27457
 13; 1249.7; 01-JUN-2007 05:48:49; Dark ; 47.5; 75; 26Eps Sco ; 2.29; 4250;occ; 95; 0;27457
 14; 1409.5; 01-JUN-2007 05:51:29; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;27457
 15; 1543.7; 01-JUN-2007 05:53:43; Bright; 38.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 77; 0;27457
 16; 1702.7; 01-JUN-2007 05:56:22; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;27457
 17; 1834.3; 01-JUN-2007 05:58:33; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27457
 18; 2015.0; 01-JUN-2007 06:01:34; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27457
 19; 2369.7; 01-JUN-2007 06:07:29; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;27457
 20; 3005.9; 01-JUN-2007 06:18:05; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27457
 21; 3166.2; 01-JUN-2007 06:20:45; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27457
 22; 3446.9; 01-JUN-2007 06:25:26; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27457

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1; 879.2; 01-JUN-2007 20:48:02; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 34;27466
 2; 937.5; 01-JUN-2007 20:49:00; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27466
 3; 1038.8; 01-JUN-2007 20:50:41; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;27466
 4; 1146.7; 01-JUN-2007 20:52:29; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;27466
 5; 1252.4; 01-JUN-2007 20:54:15; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;27466
 6; 1374.4; 01-JUN-2007 20:56:17; Dark ; 39.0; 136; 23Tau Sco ; 2.82; 30000;occ; 78; 0;27466
 7; 1545.0; 01-JUN-2007 20:59:08; Bright; 38.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 76; 0;27466
 8; 1703.0; 01-JUN-2007 21:01:46; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;27466
 9; 1834.0; 01-JUN-2007 21:03:57; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27466
 10; 2014.7; 01-JUN-2007 21:06:57; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27466
 11; 2368.6; 01-JUN-2007 21:12:51; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;27466
 12; 3003.4; 01-JUN-2007 21:23:26; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27466
 13; 3165.9; 01-JUN-2007 21:26:08; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;27466
 14; 3446.7; 01-JUN-2007 21:30:49; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27466
 15; 3928.7; 01-JUN-2007 21:38:51; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;27466
 16; 4394.9; 01-JUN-2007 21:46:38; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;27466

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 2; -381.8; 01-JUN-2007 22:07:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27466
 3; -238.3; 01-JUN-2007 22:10:00; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;27466
 4; 82.9; 01-JUN-2007 22:15:21; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;27467
 5; 195.8; 01-JUN-2007 22:17:14; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27467
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5;	263.6;	06-JUN-2007	21:20:53;	Dark	;	47.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	94;	0;	27538
6;	540.6;	06-JUN-2007	21:25:30;	Dark	;	44.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	88;	0;	27538
7;	887.7;	06-JUN-2007	21:31:17;	Dark	;	39.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	78;	0;	27538
8;	965.6;	06-JUN-2007	21:32:35;	Dark	;	39.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	79;	0;	27538
9;	1068.6;	06-JUN-2007	21:34:18;	Dark	;	45.0;	40;	The	Sco	;	1.86;	7100;	occ;	90;	0;	27538
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22;	3446.6;	06-JUN-2007	22:13:56;	Bright;		35.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	71;	0;	27538
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24;	4262.7;	06-JUN-2007	22:27:32;	Bright;		54.0;	73;	57Gam1	And	;	2.26;	13100;	occ;	108;	0;	27538
25;	4401.4;	06-JUN-2007	22:29:51;	Dark	;	52.0;	53;	43Bet	And	;	2.05;	3300;	occ;	104;	0;	27538
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18;	2298.4;	06-JUN-2007	23:35:24;	Bright;		40.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	80;	0;	27539
19;	2494.7;	06-JUN-2007	23:38:40;	Bright;		42.0;	133;	40Zet	Her	;	2.81;	6000;	occ;	84;	0;	27539
20;	2984.6;	06-JUN-2007	23:46:50;	Bright;		37.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	74;	0;	27539
21;	3165.2;	06-JUN-2007	23:49:51;	Bright;		35.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	71;	0;	27539
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8; 3446.7; 07-JUN-2007 11:38:44; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27546
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13; 5451.0; 07-JUN-2007 12:12:08; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;27546
14; 5693.7; 07-JUN-2007 12:16:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27546
15; 5845.6; 07-JUN-2007 12:18:42; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;27546
16; 6189.8; 07-JUN-2007 12:24:27; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;27546
17; 6308.3; 07-JUN-2007 12:26:25; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;27546
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23; 7311.2; 07-JUN-2007 12:43:08; Dark ; 44.0; 75; 26Eps Sco ; 2.29; 4250;occ; 88; 0;27546
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26; 7635.7; 07-JUN-2007 12:48:33; Bright; 17.5; 86; 35Eta Oph ; 2.43; 10200;occ; 35; 0;27546

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19; 6583.2; 07-JUN-2007 14:11:36; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27547
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21; 7005.5; 07-JUN-2007 14:18:38; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27547
22; 7108.6; 07-JUN-2007 14:20:21; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27547
23; 7214.3; 07-JUN-2007 14:22:07; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;27547
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6; 2015.5; 07-JUN-2007 14:36:04; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27548
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14; 4402.4; 07-JUN-2007 15:15:51; Dark ; 53.5; 53; 43Bet And ; 2.05; 3300;occ; 107; 0;27548
15; 4651.1; 07-JUN-2007 15:20:00; Dark ; 39.5; 105; 6Bet Ari ; 2.64; 8900;occ; 79; 0;27548
16; 5452.7; 07-JUN-2007 15:33:21; Dark ; 52.0; 52; 16Bet Cet ; 2.04; 4500;occ; 104; 0;27548
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 22; 6927.4; 07-JUN-2007 15:57:56; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27548
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 25; 7214.7; 07-JUN-2007 16:02:43; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;27548
 26; 7311.7; 07-JUN-2007 16:04:20; Dark ; 17.0; 75; 26Eps Sco ; 2.29; 4250;occ; 34; 0;27548

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 6; 1835.4; 07-JUN-2007 16:13:40; Bright; 37.0; 120; 1Del Oph ; 2.73; 3200;occ; 74; 0;27549
 7; 2015.5; 07-JUN-2007 16:16:40; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27549
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 9; 2491.3; 07-JUN-2007 16:24:36; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;27549
 10; 2982.5; 07-JUN-2007 16:32:47; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;27549
 11; 3165.4; 07-JUN-2007 16:35:50; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;27549
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 13; 3918.9; 07-JUN-2007 16:48:24; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;27549
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 17; 5453.4; 07-JUN-2007 17:13:58; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;27549
 18; 5695.5; 07-JUN-2007 17:18:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27549
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 21; 6311.4; 07-JUN-2007 17:28:16; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27549
 22; 6584.6; 07-JUN-2007 17:32:49; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27549
 23; 6927.8; 07-JUN-2007 17:38:32; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27549
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 12; 2982.3; 07-JUN-2007 18:13:23; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27550
 13; 3165.2; 07-JUN-2007 18:16:26; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27550
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 22; 6193.5; 07-JUN-2007 19:06:54; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;27550
 23; 6312.3; 07-JUN-2007 19:08:53; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;27550
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12; 4164.8; 29-JUN-2007 15:20:31; Bright; 33.0; 175; 39Del Per ; 3.01; 19400;occ; 66; 0;27863
13; 4293.9; 29-JUN-2007 15:22:41; Bright; 49.0; 79; 26Bet Per ; 2.31; 13100;occ; 98; 0;27863
14; 4967.0; 29-JUN-2007 15:33:54; Dark ; 49.0; 94; 92Alp Cet ; 2.53; 3100;occ; 98; 0;27863
15; 5194.4; 29-JUN-2007 15:37:41; Dark ; 43.5; 165; 34Gam Eri ; 2.95; 3200;occ; 87; 0;27863
16; 5701.3; 29-JUN-2007 15:46:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27863
17; 6059.8; 29-JUN-2007 15:52:06; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;27863
18; 6504.3; 29-JUN-2007 15:59:31; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;27863
19; 6769.0; 29-JUN-2007 16:03:56; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;27863
20; 7094.2; 29-JUN-2007 16:09:21; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;27863
21; 7201.7; 29-JUN-2007 16:11:08; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27863
22; 7301.8; 29-JUN-2007 16:12:48; Dark ; 28.5; 25; 35Lam Sco ; 1.62; 28000;occ; 57; 0;27863

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2;	1058.8;	29-JUN-2007	21:11:09;	Dark	;	36.0;	147;	Alp Ara	;	2.88;	26000;occ;	72;	0;	27867
3;	1166.3;	29-JUN-2007	21:12:57;	Dark	;	41.5;	40;	The Sco	;	1.86;	7100;occ;	83;	0;	27867
4;	1266.3;	29-JUN-2007	21:14:37;	Dark	;	41.0;	25;	35Lam Sco	;	1.62;	28000;occ;	82;	0;	27867
5;	1350.5;	29-JUN-2007	21:16:01;	Dark	;	55.5;	116;	19Del Sgr	;	2.70;	4100;occ;	111;	0;	27867
6;	1639.5;	29-JUN-2007	21:20:50;	Bright;		36.5;	86;	35Eta Oph	;	2.43;	10200;occ;	73;	0;	27867
7;	1744.4;	29-JUN-2007	21:22:35;	Bright;		36.0;	98;	13Zet Oph	;	2.57;	30000;occ;	72;	0;	27867
8;	1982.7;	29-JUN-2007	21:26:33;	Bright;		38.0;	126;	60Bet Oph	;	2.77;	4250;occ;	76;	0;	27867
9;	2123.4;	29-JUN-2007	21:28:54;	Bright;		36.5;	59;	55Alp Oph	;	2.08;	8900;occ;	73;	0;	27867
10;	2280.9;	29-JUN-2007	21:31:31;	Bright;		36.0;	127;	27Bet Her	;	2.78;	4700;occ;	72;	0;	27867
11;	2446.9;	29-JUN-2007	21:34:17;	Bright;		36.0;	133;	40Zet Her	;	2.81;	6000;occ;	72;	0;	27867
12;	2812.9;	29-JUN-2007	21:40:23;	Bright;		38.0;	130;	23Bet Dra	;	2.80;	5800;occ;	76;	0;	27867
13;	2951.7;	29-JUN-2007	21:42:42;	Bright;		35.5;	119;	14Eta Dra	;	2.73;	4700;occ;	71;	0;	27867
14;	3188.5;	29-JUN-2007	21:46:39;	Bright;		36.0;	60;	7Bet UMi	;	2.08;	3950;occ;	72;	0;	27867
15;	3445.5;	29-JUN-2007	21:50:56;	Bright;		36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	27867
16;	4063.6;	29-JUN-2007	22:01:14;	Bright;		39.0;	160;	23Gam Per	;	2.93;	4700;occ;	78;	0;	27867
17;	4164.7;	29-JUN-2007	22:02:55;	Bright;		40.0;	175;	39Del Per	;	3.01;	19400;occ;	80;	0;	27867
18;	4293.9;	29-JUN-2007	22:05:04;	Bright;		44.0;	79;	26Bet Per	;	2.31;	13100;occ;	88;	0;	27867
19;	4968.5;	29-JUN-2007	22:16:19;	Dark	;	45.5;	94;	92Alp Cet	;	2.53;	3100;occ;	91;	0;	27867
20;	5195.2;	29-JUN-2007	22:20:06;	Dark	;	2.0;	165;	34Gam Eri	;	2.95;	3200;occ;	4;	0;	27867

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2;	-332.5;	29-JUN-2007	22:28:34;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	27867
3;	25.6;	29-JUN-2007	22:34:32;	Dark	;	42.0;	9;	Alp Eri	;	0.45;	24000;occ;	84;	0;	27868
4;	470.6;	29-JUN-2007	22:41:57;	Dark	;	43.0;	148;	Alp Tuc	;	2.88;	4100;occ;	86;	0;	27868
5;	734.9;	29-JUN-2007	22:46:21;	Dark	;	41.5;	45;	Alp Pav	;	1.94;	26000;occ;	83;	0;	27868
6;	1058.8;	29-JUN-2007	22:51:45;	Dark	;	38.0;	147;	Alp Ara	;	2.88;	26000;occ;	76;	0;	27868
7;	1166.5;	29-JUN-2007	22:53:33;	Dark	;	42.0;	40;	The Sco	;	1.86;	7100;occ;	84;	0;	27868
8;	1266.4;	29-JUN-2007	22:55:13;	Dark	;	40.5;	25;	35Lam Sco	;	1.62;	28000;occ;	81;	0;	27868
9;	1350.5;	29-JUN-2007	22:56:37;	Dark	;	47.5;	116;	19Del Sgr	;	2.70;	4100;occ;	95;	0;	27868
10;	1639.7;	29-JUN-2007	23:01:26;	Bright;		36.5;	86;	35Eta Oph	;	2.43;	10200;occ;	73;	0;	27868
11;	1744.6;	29-JUN-2007	23:03:11;	Bright;		35.0;	98;	13Zet Oph	;	2.57;	30000;occ;	70;	0;	27868
12;	1982.6;	29-JUN-2007	23:07:09;	Bright;		37.0;	126;	60Bet Oph	;	2.77;	4250;occ;	74;	0;	27868
13;	2123.3;	29-JUN-2007	23:09:30;	Bright;		36.5;	59;	55Alp Oph	;	2.08;	8900;occ;	73;	0;	27868
14;	2281.0;	29-JUN-2007	23:12:07;	Bright;		37.5;	127;	27Bet Her	;	2.78;	4700;occ;	75;	0;	27868
15;	2447.0;	29-JUN-2007	23:14:53;	Bright;		37.0;	133;	40Zet Her	;	2.81;	6000;occ;	74;	0;	27868
16;	2812.6;	29-JUN-2007	23:20:59;	Bright;		35.0;	130;	23Bet Dra	;	2.80;	5800;occ;	70;	0;	27868
17;	2951.8;	29-JUN-2007	23:23:18;	Bright;		34.5;	119;	14Eta Dra	;	2.73;	4700;occ;	69;	0;	27868
18;	3188.6;	29-JUN-2007	23:27:15;	Bright;		33.5;	60;	7Bet UMi	;	2.08;	3950;occ;	67;	0;	27868
19;	3445.5;	29-JUN-2007	23:31:32;	Bright;		34.5;	49;	1Alp UMi	;	1.99;	6300;occ;	69;	0;	27868
20;	4063.6;	29-JUN-2007	23:41:50;	Bright;		36.0;	160;	23Gam Per	;	2.93;	4700;occ;	72;	0;	27868
21;	4164.9;	29-JUN-2007	23:43:31;	Bright;		33.0;	175;	39Del Per	;	3.01;	19400;occ;	66;	0;	27868
22;	4294.0;	29-JUN-2007	23:45:40;	Bright;		30.0;	79;	26Bet Per	;	2.31;	13100;occ;	60;	0;	27868
23;	4968.9;	29-JUN-2007	23:56:55;	Dark	;	48.5;	94;	92Alp Cet	;	2.53;	3100;occ;	97;	0;	27868
24;	5195.4;	30-JUN-2007	00:00:42;	Dark	;	37.5;	165;	34Gam Eri	;	2.95;	3200;occ;	75;	0;	27868

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3;	1639.1;	29-JUN-2007	16:19:02;	Bright;		37.0;	86;	35Eta Oph	;	2.43;	10200;occ;	74;	0;	27864
4;	1744.0;	29-JUN-2007	16:20:47;	Bright;		36.5;	98;	13Zet Oph	;	2.57;	30000;occ;	73;	0;	27864
5;	1982.9;	29-JUN-2007	16:24:46;	Bright;		37.5;	126;	60Bet Oph	;	2.77;	4250;occ;	75;	0;	27864
6;	2123.5;	29-JUN-2007	16:27:06;	Bright;		38.5;	59;	55Alp Oph	;	2.08;	8900;occ;	77;	0;	27864
7;	2280.6;	29-JUN-2007	16:29:43;	Bright;		36.0;	127;	27Bet Her	;	2.78;	4700;occ;	72;	0;	27864
8;	2446.8;	29-JUN-2007	16:32:29;	Bright;		36.0;	133;	40Zet Her	;	2.81;	6000;occ;	72;	0;	27864
9;	2813.5;	29-JUN-2007	16:38:36;	Bright;		38.0;	130;	23Bet Dra	;	2.80;	5800;occ;	76;	0;	27864
10;	2951.8;	29-JUN-2007	16:40:54;	Bright;		36.0;	119;	14Eta Dra	;	2.73;	4700;occ;	72;	0;	27864
11;	3188.2;	29-JUN-2007	16:44:51;	Bright;		33.5;	60;	7Bet UMi	;	2.08;	3950;occ;	67;	0;	27864
12;	3445.7;	29-JUN-2007	16:49:08;	Bright;		35.5;	49;	1Alp UMi	;	1.99;	6300;occ;	71;	0;	27864
13;	4064.1;	29-JUN-2007	16:59:27;	Bright;		50.0;	160;	23Gam Per	;	2.93;	4700;occ;	100;	0;	27864
14;	4164.7;	29-JUN-2007	17:01:07;	Bright;		33.0;	175;	39Del Per	;	3.01;	19400;occ;	66;	0;	27864
15;	4293.7;	29-JUN-2007	17:03:16;	Bright;		45.0;	79;	26Bet Per	;	2.31;	13100;occ;	90;	0;	27864
16;	4967.5;	29-JUN-2007	17:14:30;	Dark	;	51.5;	94;	92Alp Cet	;	2.53;	3100;occ;	103;	0;	27864
17;	5194.7;	29-JUN-2007	17:18:17;	Dark	;	40.0;	165;	34Gam Eri	;	2.95;	3200;occ;	80;	0;	27864
18;	5701.9;	29-JUN-2007	17:26:44;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	27864
19;	6060.3;	29-JUN-2007	17:32:43;	Dark	;	41.5;	9;	Alp Eri	;	0.45;	24000;occ;	83;	0;	27864
20;	6505.0;	29-JUN-2007	17:40:08;	Dark	;	40.5;	148;	Alp Tuc	;	2.88;	4100;occ;	81;	0;	27864
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 3; 1265.9; 29-JUN-2007 17:53:25; Dark ; 39.5; 25; 35Lam Sco ; 1.62; 28000;occ; 79; 0;27865
 4; 1349.9; 29-JUN-2007 17:54:49; Dark ; 45.5; 116; 19Del Sgr ; 2.70; 4100;occ; 91; 0;27865
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 6; 1744.2; 29-JUN-2007 18:01:23; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;27865
 7; 1982.8; 29-JUN-2007 18:05:21; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;27865
 8; 2123.4; 29-JUN-2007 18:07:42; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;27865
 9; 2280.8; 29-JUN-2007 18:10:19; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;27865
 10; 2446.8; 29-JUN-2007 18:13:05; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;27865
 11; 2813.3; 29-JUN-2007 18:19:12; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;27865
 12; 2951.7; 29-JUN-2007 18:21:30; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;27865
 13; 3188.2; 29-JUN-2007 18:25:27; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;27865
 14; 3445.6; 29-JUN-2007 18:29:44; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27865
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 17; 4293.7; 29-JUN-2007 18:43:52; Bright; 36.0; 79; 26Bet Per ; 2.31; 13100;occ; 72; 0;27865
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 19; 5194.8; 29-JUN-2007 18:58:53; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;27865
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 22; 6505.5; 29-JUN-2007 19:20:44; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;27865
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 5; 1639.4; 29-JUN-2007 19:40:14; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;27866
 6; 1744.2; 29-JUN-2007 19:41:59; Bright; 35.0; 98; 13Zet Oph ; 2.57; 30000;occ; 70; 0;27866
 7; 1982.7; 29-JUN-2007 19:45:57; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;27866
 8; 2123.5; 29-JUN-2007 19:48:18; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;27866
 9; 2280.8; 29-JUN-2007 19:50:55; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;27866
 10; 2446.9; 29-JUN-2007 19:53:41; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;27866
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 15; 4064.0; 29-JUN-2007 20:20:39; Bright; 35.0; 160; 23Gam Per ; 2.93; 4700;occ; 70; 0;27866
 16; 4164.8; 29-JUN-2007 20:22:19; Bright; 33.5; 175; 39Del Per ; 3.01; 19400;occ; 67; 0;27866
 17; 4294.0; 29-JUN-2007 20:24:29; Bright; 44.0; 79; 26Bet Per ; 2.31; 13100;occ; 88; 0;27866
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 19; 5194.9; 29-JUN-2007 20:39:30; Dark ; 42.5; 165; 34Gam Eri ; 2.95; 3200;occ; 85; 0;27866
 20; 5702.9; 29-JUN-2007 20:47:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27866
 21; 6061.1; 29-JUN-2007 20:53:56; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;27866
 22; 6506.0; 29-JUN-2007 21:01:21; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;27866

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 6; 1059.0; 30-JUN-2007 00:32:21; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;27869
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 10; 1639.8; 30-JUN-2007 00:42:02; Bright; 35.5; 86; 35Eta Oph ; 2.43; 10200;occ; 71; 0;27869
 11; 1744.7; 30-JUN-2007 00:43:47; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;27869
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