

# GOMOS Daily Report 17-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	19JUN2007 05:46:00
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (17JUN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (18JUN2007 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)

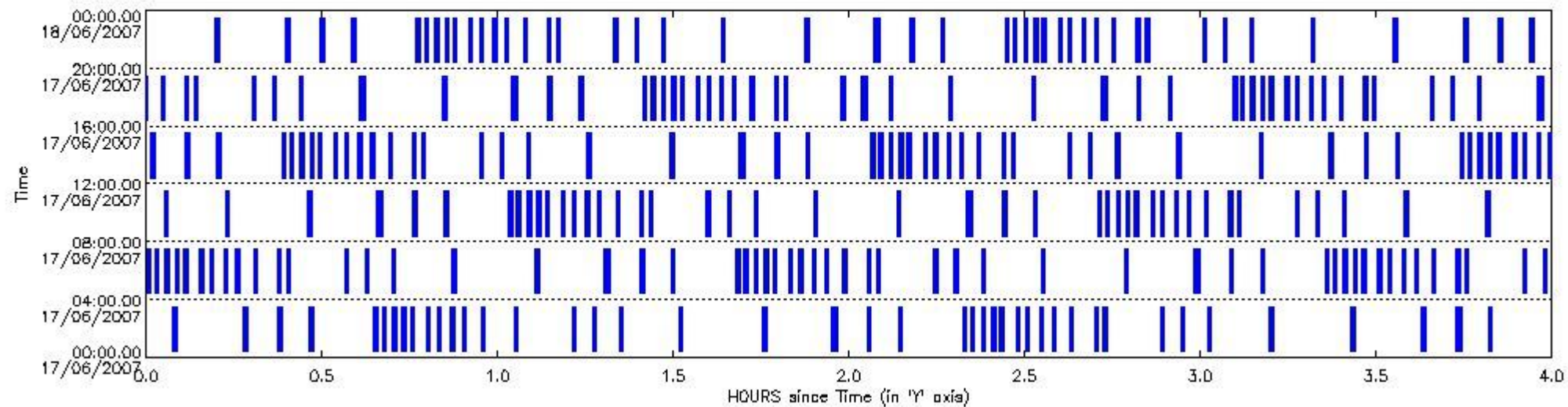
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

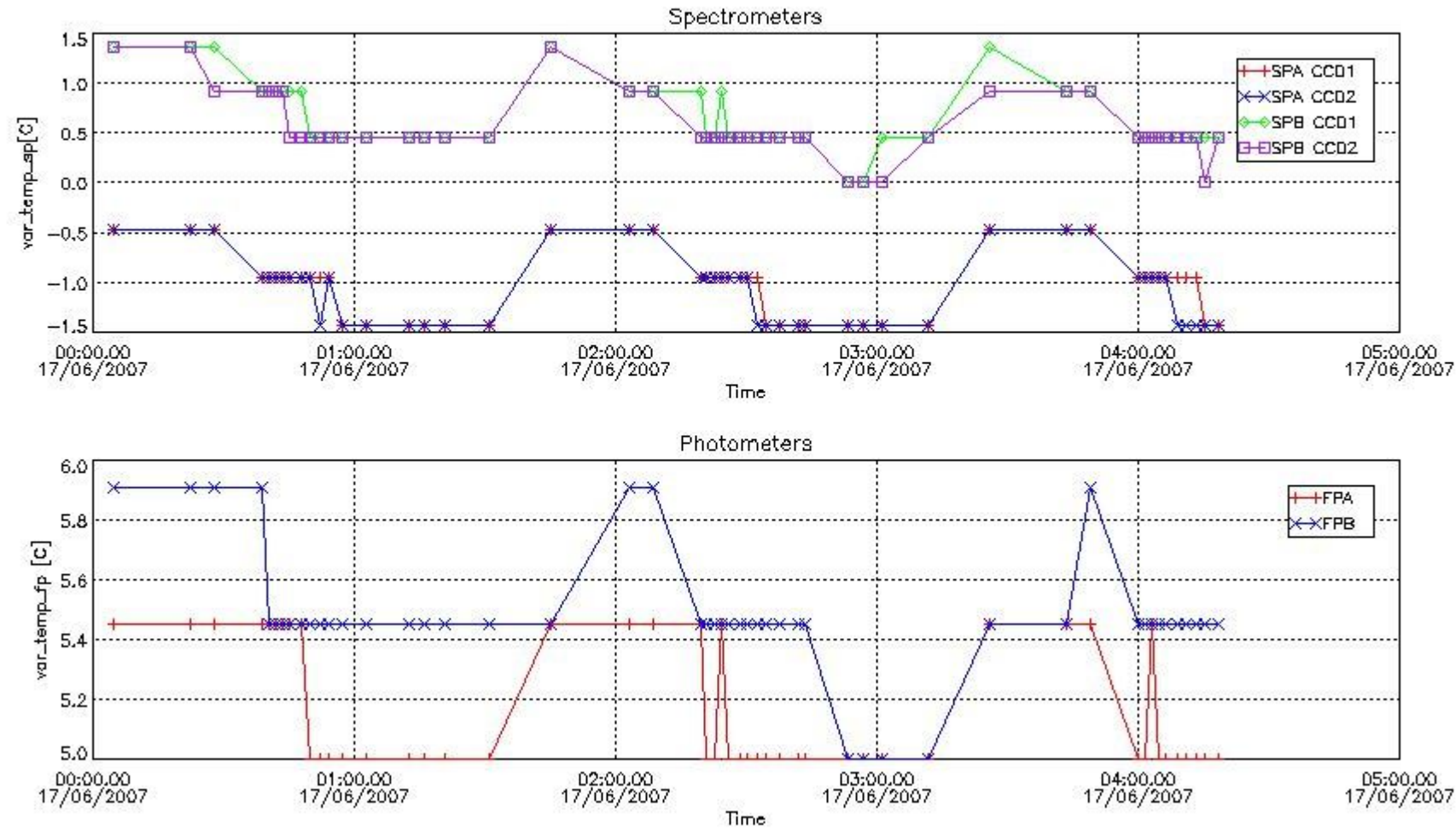
No missing products.

### 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_1PNPDE20070617_000432_000000442059_00073_27682_1558.N1	17-JUN-2007 00:04:32	Dark	44.000	94	92Alp Cet	2.5260	3100.0	88	27682	No
2	GOM_TRA_1PNPDE20070617_002227_000000392059_00073_27682_1680.N1	17-JUN-2007 00:22:27	Dark	38.500	9	Alp Eri	0.45300	24000.	77	27682	No
3	GOM_TRA_1PNPDE20070617_002751_000000362059_00074_27683_1681.N1	17-JUN-2007 00:27:51	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	27683	No
4	GOM_TRA_1PNPDE20070617_003850_000000402059_00074_27683_1682.N1	17-JUN-2007 00:38:50	Straylight	39.500	141	Bet Ara	2.8400	4600.0	79	27683	No
5	GOM_TRA_1PNPDE20070617_004012_000000392059_00074_27683_1683.N1	17-JUN-2007 00:40:12	Straylight	39.000	147	Alp Ara	2.8770	26000.	78	27683	No
6	GOM_TRA_1PNPDE20070617_004158_000000432059_00074_27683_1684.N1	17-JUN-2007 00:41:58	Twilight_and_stray	42.500	40	The Sco	1.8590	7100.0	85	27683	No
7	GOM_TRA_1PNPDE20070617_004340_000000432059_00074_27683_1685.N1	17-JUN-2007 00:43:40	Twilight_and_stray	42.500	25	35Lam Sco	1.6200	28000.	85	27683	No
8	GOM_TRA_1PNPDE20070617_004506_000000402059_00074_27683_1686.N1	17-JUN-2007 00:45:06	Twilight_and_stray	39.500	75	26Eps Sco	2.2910	4250.0	79	27683	No
9	GOM_TRA_1PNPDE20070617_004752_000000372059_00074_27683_1687.N1	17-JUN-2007 00:47:52	Bright	37.000	156	20Sig Sco	2.9030	28000.	74	27683	No
10	GOM_TRA_1PNPDE20070617_004938_000000362059_00074_27683_1688.N1	17-JUN-2007 00:49:38	Bright	35.500	97	8Bet1Sco	2.5610	30000.	71	27683	No
11	GOM_TRA_1PNPDE20070617_005158_000000372059_00074_27683_1689.N1	17-JUN-2007 00:51:58	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	27683	No
12	GOM_TRA_1PNPDE20070617_005404_000000362059_00074_27683_1690.N1	17-JUN-2007 00:54:04	Bright	36.000	120	1Del Oph	2.7340	3200.0	72	27683	No

13	GOM_TRA_1PNPDE20070617_005707_000000362059_00074_27683_1691.N1	17-JUN-2007 00:57:07	Bright	36.000	102	24Alp Ser	2.6000	4250.0	72	27683	No
14	GOM_TRA_1PNPDE20070617_010249_000000362059_00074_27683_1692.N1	17-JUN-2007 01:02:49	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	27683	No
15	GOM_TRA_1PNPDE20070617_011239_000000342059_00074_27683_1693.N1	17-JUN-2007 01:12:39	Bright	33.500	119	14Eta Dra	2.7270	4700.0	67	27683	No
16	GOM_TRA_1PNPDE20070617_011609_000000372059_00074_27683_1694.N1	17-JUN-2007 01:16:09	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	27683	No
17	GOM_TRA_1PNPDE20070617_012046_000000342059_00074_27683_1695.N1	17-JUN-2007 01:20:46	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	27683	No
18	GOM_TRA_1PNPDE20070617_013101_000000342059_00074_27683_1696.N1	17-JUN-2007 01:31:01	Bright	33.500	160	23Gam Per	2.9300	4700.0	67	27683	No
19	GOM_TRA_1PNPDE20070617_014508_000000432059_00074_27683_1697.N1	17-JUN-2007 01:45:08	Dark	43.000	94	92Alp Cet	2.5260	3100.0	86	27683	No
20	GOM_TRA_1PNPDE20070617_020304_000000432059_00074_27683_1837.N1	17-JUN-2007 02:03:04	Dark	43.000	9	Alp Eri	0.45300	24000.	86	27683	No
21	GOM_TRA_1PNPDE20070617_020827_000000372059_00075_27684_1838.N1	17-JUN-2007 02:08:27	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	27684	No
22	GOM_TRA_1PNPDE20070617_021926_000000402059_00075_27684_1839.N1	17-JUN-2007 02:19:26	Straylight	40.000	141	Bet Ara	2.8400	4600.0	80	27684	No
23	GOM_TRA_1PNPDE20070617_022049_000000402059_00075_27684_1840.N1	17-JUN-2007 02:20:49	Straylight	39.500	147	Alp Ara	2.8770	26000.	79	27684	No
24	GOM_TRA_1PNPDE20070617_022234_000000452059_00075_27684_1841.N1	17-JUN-2007 02:22:34	Twilight_stray	45.000	40	The Sco	1.8590	7100.0	90	27684	No
25	GOM_TRA_1PNPDE20070617_022417_000000432059_00075_27684_1842.N1	17-JUN-2007 02:24:17	Twilight_stray	42.500	25	35Lam Sco	1.6200	28000.	85	27684	No
26	GOM_TRA_1PNPDE20070617_022543_000000392059_00075_27684_1843.N1	17-JUN-2007 02:25:43	Twilight_stray	39.000	75	26Eps Sco	2.2910	4250.0	78	27684	No
27	GOM_TRA_1PNPDE20070617_022828_000000372059_00075_27684_1844.N1	17-JUN-2007 02:28:28	Bright	36.500	156	20Sig Sco	2.9030	28000.	73	27684	No
28	GOM_TRA_1PNPDE20070617_023014_000000372059_00075_27684_1845.N1	17-JUN-2007 02:30:14	Bright	36.500	97	8Bet1Sco	2.5610	30000.	73	27684	No
29	GOM_TRA_1PNPDE20070617_023234_000000362059_00075_27684_1846.N1	17-JUN-2007 02:32:34	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	27684	No
30	GOM_TRA_1PNPDE20070617_023440_000000372059_00075_27684_1847.N1	17-JUN-2007 02:34:40	Bright	37.000	120	1Del Oph	2.7340	3200.0	74	27684	No
31	GOM_TRA_1PNPDE20070617_023743_000000362059_00075_27684_1848.N1	17-JUN-2007 02:37:43	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	27684	No
32	GOM_TRA_1PNPDE20070617_024151_000000322059_00075_27684_1849.N1	17-JUN-2007 02:41:51	Bright	32.000	127	27Bet Her	2.7810	4700.0	64	27684	No
33	GOM_TRA_1PNPDE20070617_024325_000000372059_00075_27684_1850.N1	17-JUN-2007 02:43:25	Bright	37.000	67	5Alp CrB	2.2210	11000.	74	27684	No
34	GOM_TRA_1PNPDE20070617_025315_000000352059_00075_27684_1851.N1	17-JUN-2007 02:53:15	Bright	34.500	119	14Eta Dra	2.7270	4700.0	69	27684	No
35	GOM_TRA_1PNPDE20070617_025645_000000342059_00075_27684_1852.N1	17-JUN-2007 02:56:45	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	27684	No
36	GOM_TRA_1PNPDE20070617_030121_000000322059_00075_27684_1853.N1	17-JUN-2007 03:01:21	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	27684	No
37	GOM_TRA_1PNPDE20070617_031138_000000532059_00075_27684_1965.N1	17-JUN-2007 03:11:38	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	27684	No
38	GOM_TRA_1PNPDE20070617_032544_000000432059_00075_27684_1966.N1	17-JUN-2007 03:25:44	Dark	42.500	94	92Alp Cet	2.5260	3100.0	85	27684	No
39	GOM_TRA_1PNPDE20070617_034340_000000522059_00075_27684_1967.N1	17-JUN-2007 03:43:40	Dark	52.000	9	Alp Eri	0.45300	24000.	104	27684	No
40	GOM_TRA_1PNPDE20070617_034904_000000372059_00076_27685_1968.N1	17-JUN-2007 03:49:04	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	27685	No
41	GOM_TRA_1PNPDE20070617_040003_000000392059_00076_27685_1969.N1	17-JUN-2007 04:00:03	Straylight	39.000	141	Bet Ara	2.8400	4600.0	78	27685	No
42	GOM_TRA_1PNPDE20070617_040125_000000392059_00076_27685_1970.N1	17-JUN-2007 04:01:25	Straylight	38.500	147	Alp Ara	2.8770	26000.	77	27685	No
43	GOM_TRA_1PNPDE20070617_040310_000000422059_00076_27685_1971.N1	17-JUN-2007 04:03:10	Twilight_stray	41.500	40	The Sco	1.8590	7100.0	83	27685	No
44	GOM_TRA_1PNPDE20070617_040453_000000422059_00076_27685_1972.N1	17-JUN-2007 04:04:53	Twilight_stray	42.000	25	35Lam Sco	1.6200	28000.	84	27685	No
45	GOM_TRA_1PNPDE20070617_040619_000000422059_00076_27685_1973.N1	17-JUN-2007 04:06:19	Twilight_stray	42.000	75	26Eps Sco	2.2910	4250.0	84	27685	No
46	GOM_TRA_1PNPDE20070617_040905_000000372059_00076_27685_1974.N1	17-JUN-2007 04:09:05	Bright	36.500	156	20Sig Sco	2.9030	28000.	73	27685	No
47	GOM_TRA_1PNPDE20070617_041051_000000372059_00076_27685_1975.N1	17-JUN-2007 04:10:51	Bright	36.500	97	8Bet1Sco	2.5610	30000.	73	27685	No
48	GOM_TRA_1PNPDE20070617_041310_000000372059_00076_27685_1976.N1	17-JUN-2007 04:13:10	Bright	37.000	98	13Zet Oph	2.5710	30000.	74	27685	No
49	GOM_TRA_1PNPDE20070617_041516_000000372059_00076_27685_1977.N1	17-JUN-2007 04:15:16	Bright	37.000	120	1Del Oph	2.7340	3200.0	74	27685	No
50	GOM_TRA_1PNPDE20070617_041819_000000362059_00076_27685_1978.N1	17-JUN-2007 04:18:19	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	27685	No

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



#### 4. Overview of dark signal processing per product

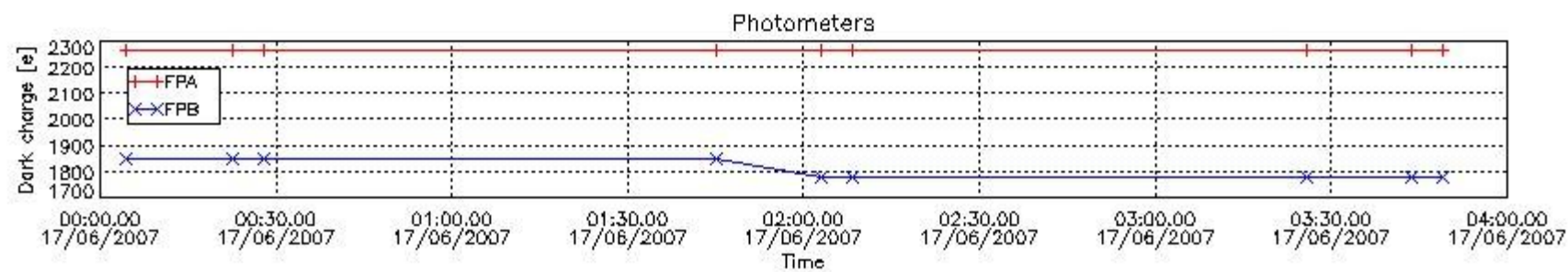
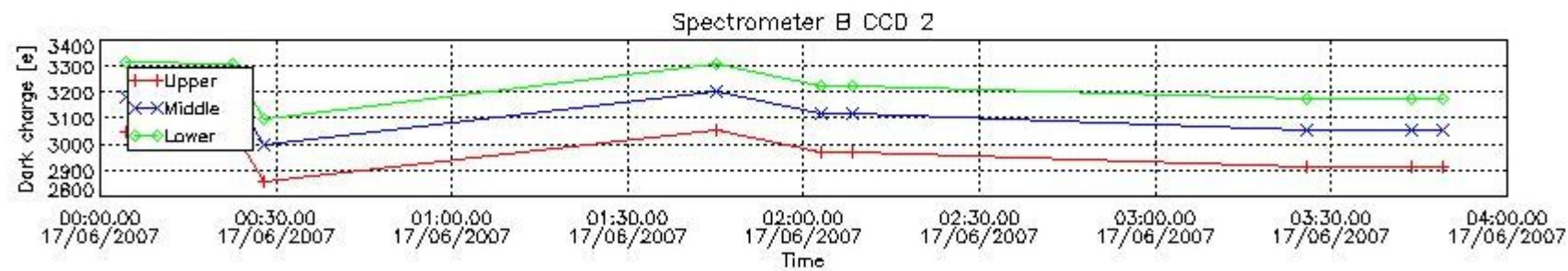
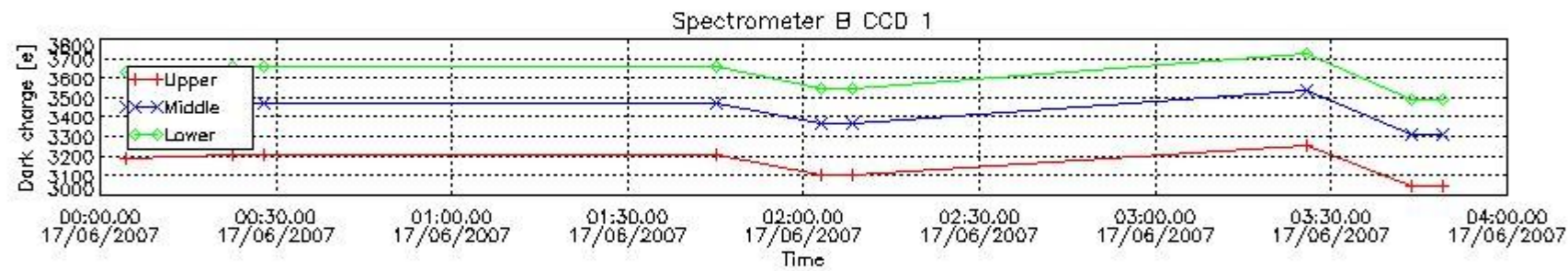
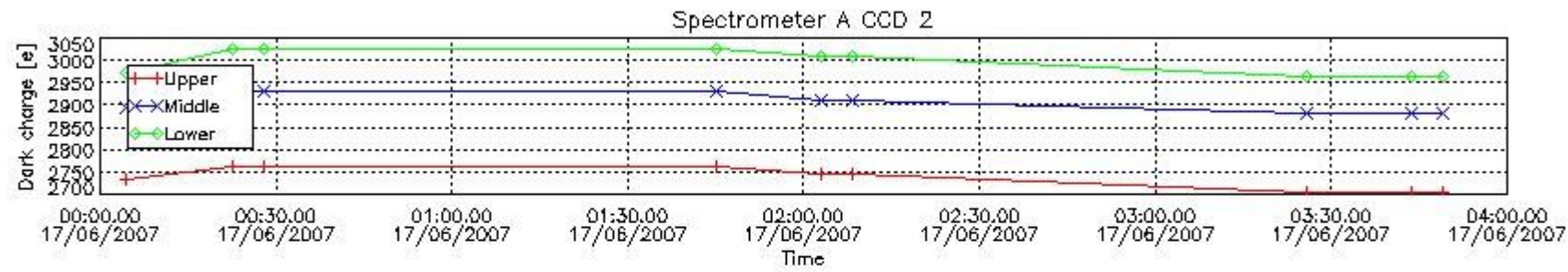
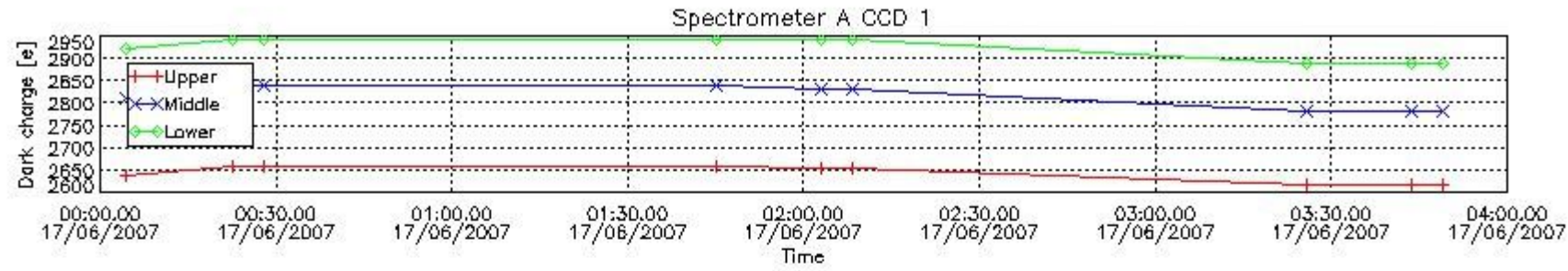
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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





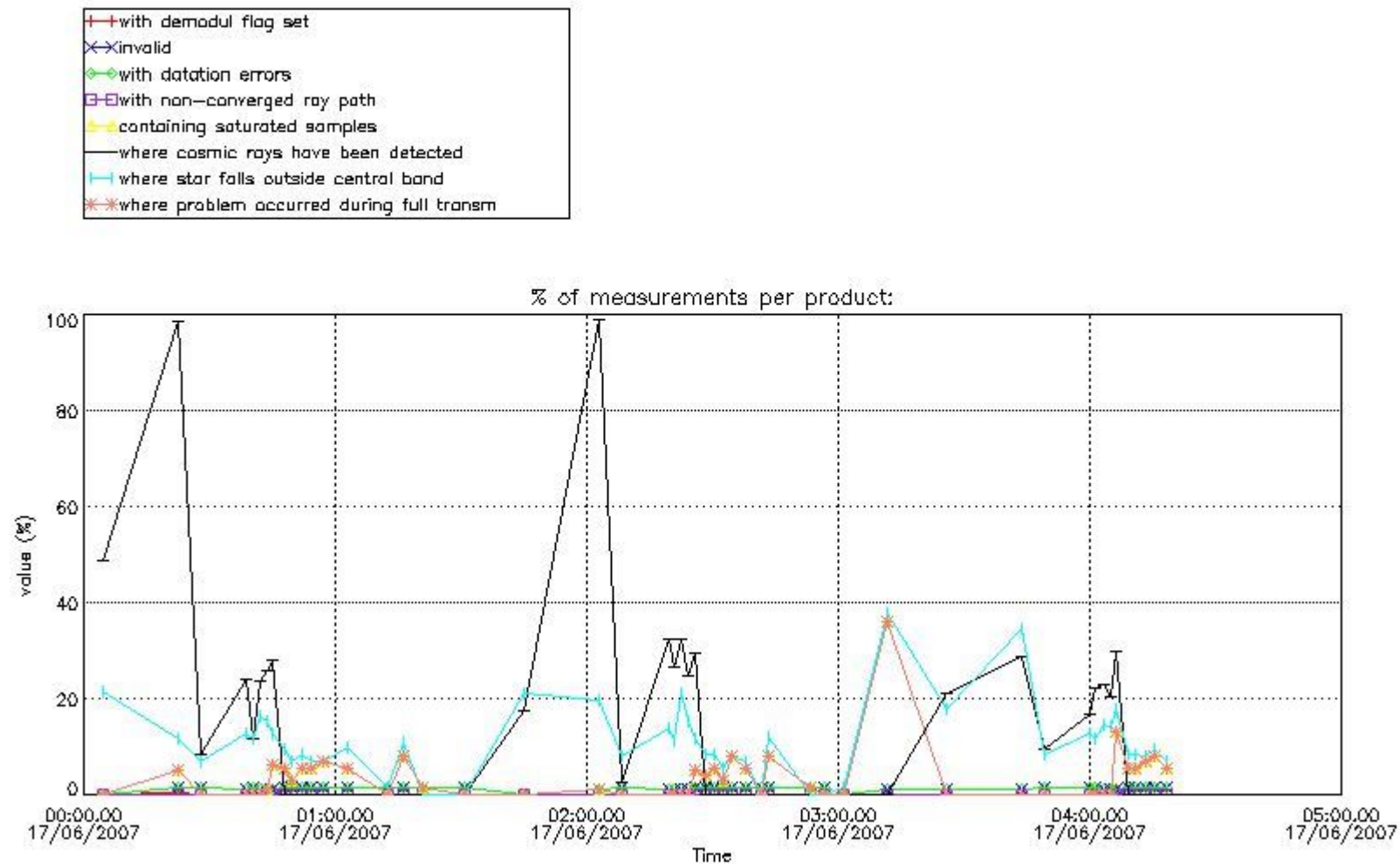
## 5. Demodulation flag and quality information monitoring

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:

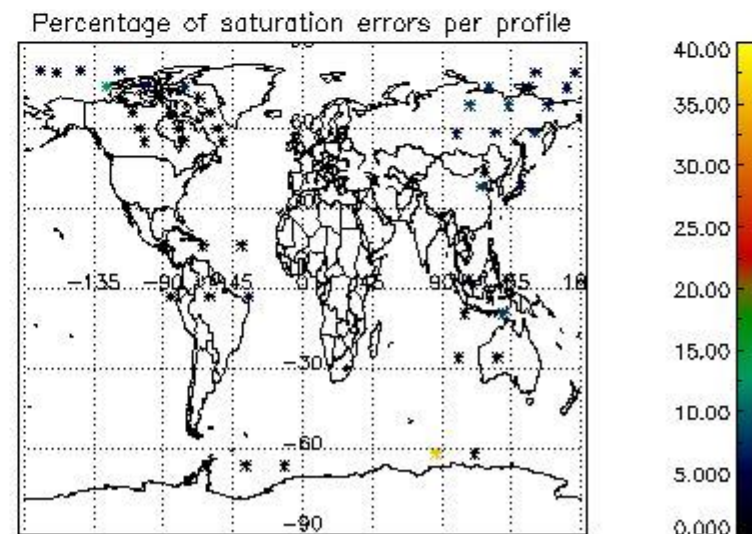
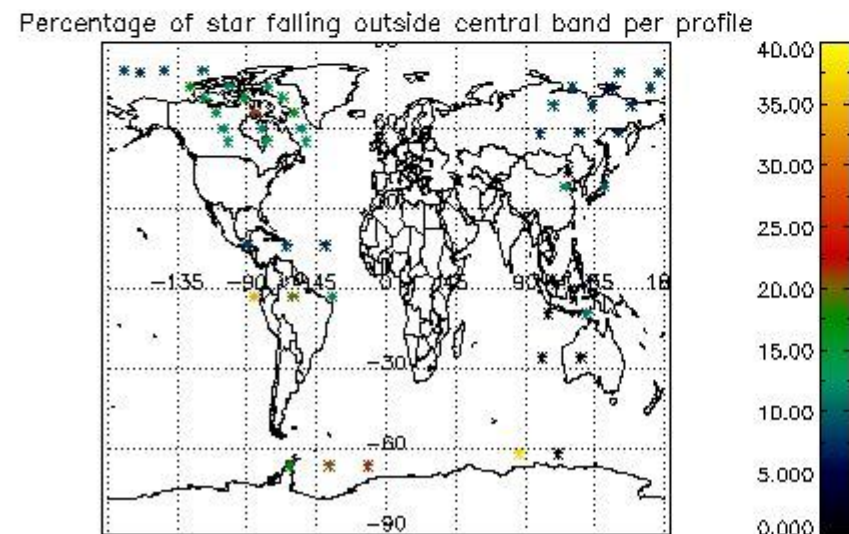
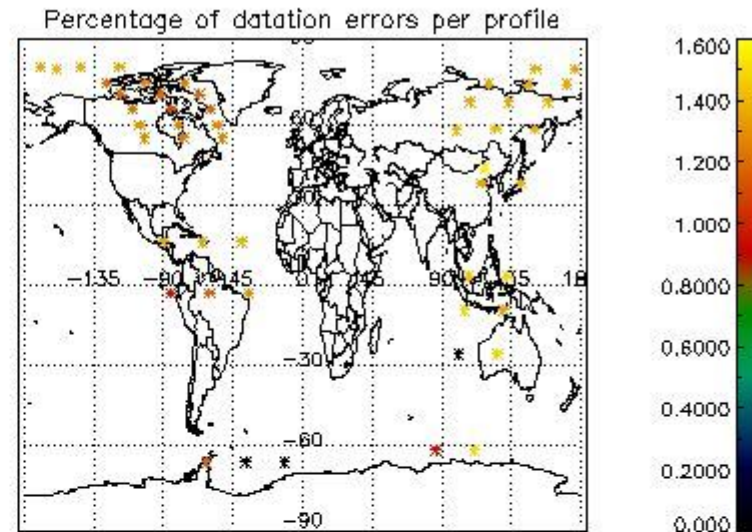
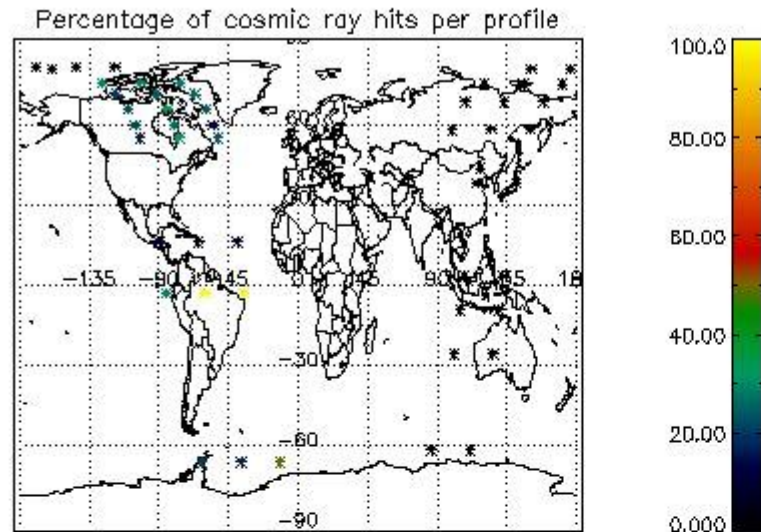
At least one measurement with demodulation flag set:	22.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





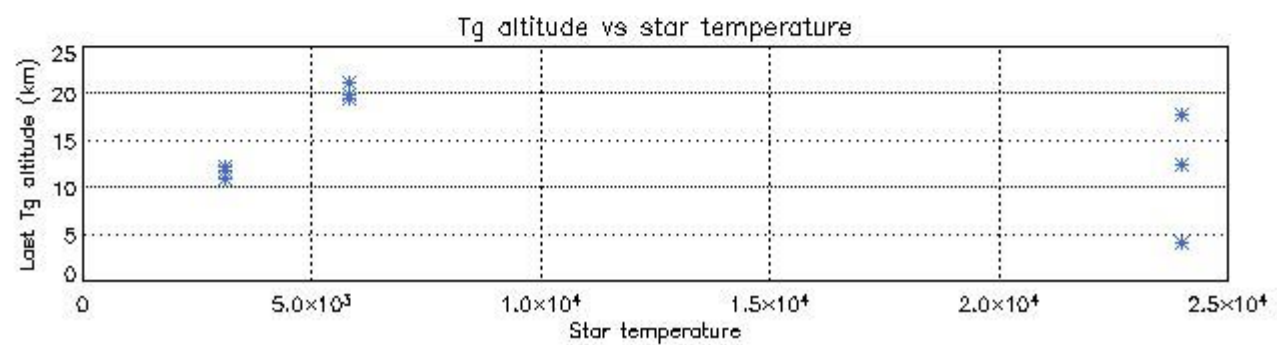
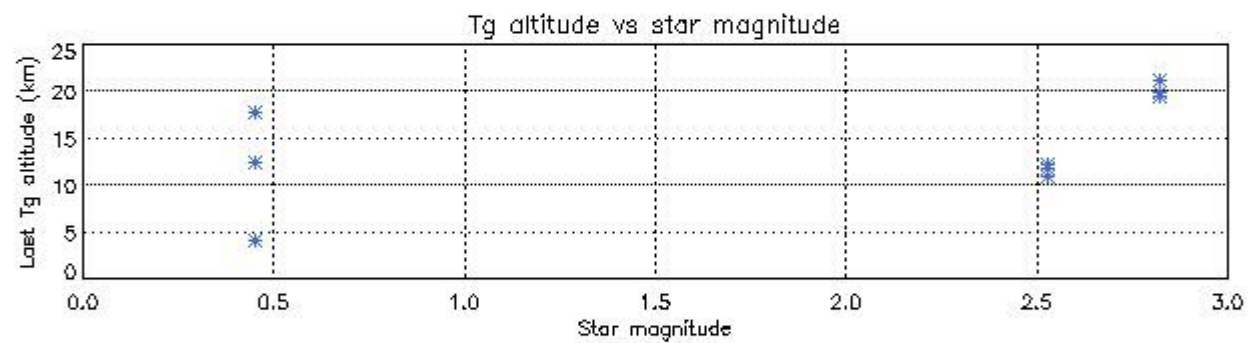
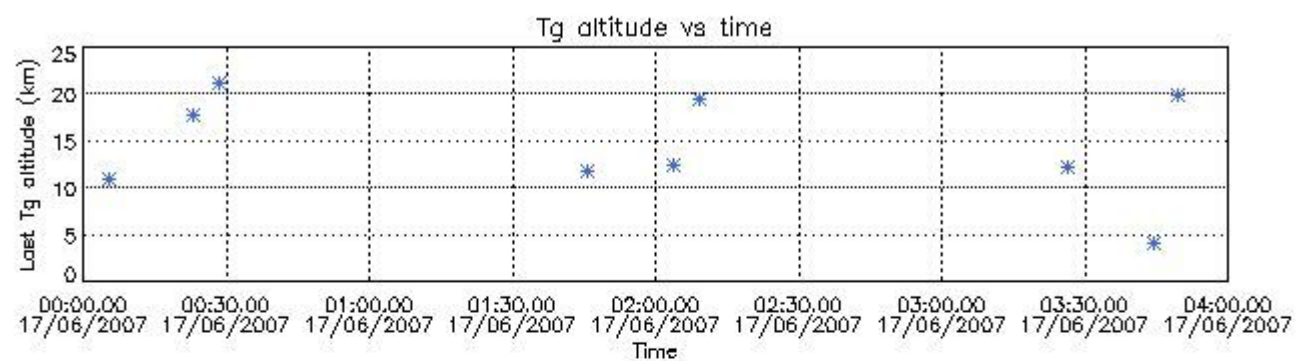
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.378	21.315	NaN
St. deviation:	5.5871	5.3852	NaN
Maximum:	21.241	32.342	NaN
Minimum:	3.9873	3.8774	NaN
Number of data:	9.0000	26.000	NaN

### 6.2 Plot for DARK limb products

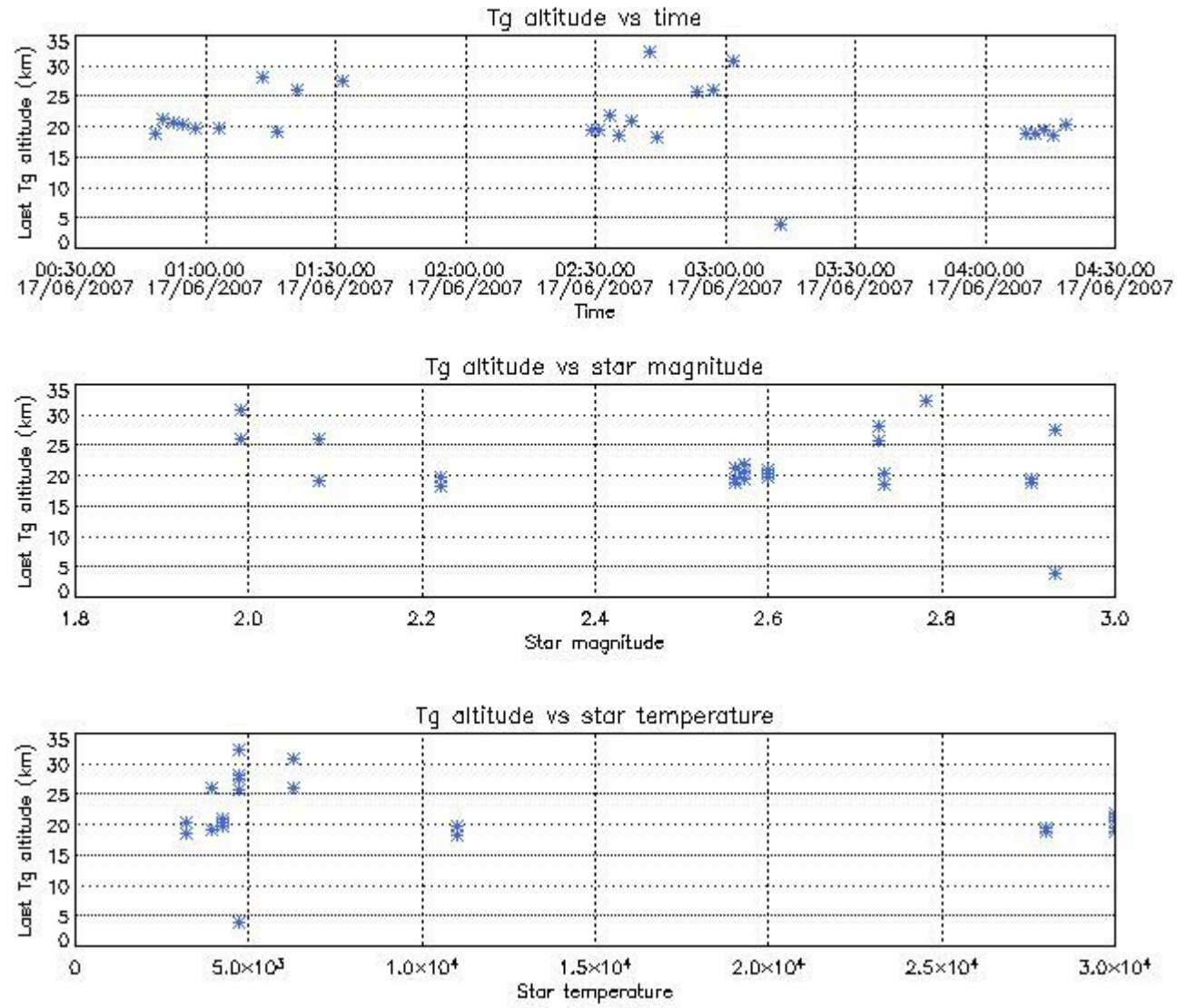
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

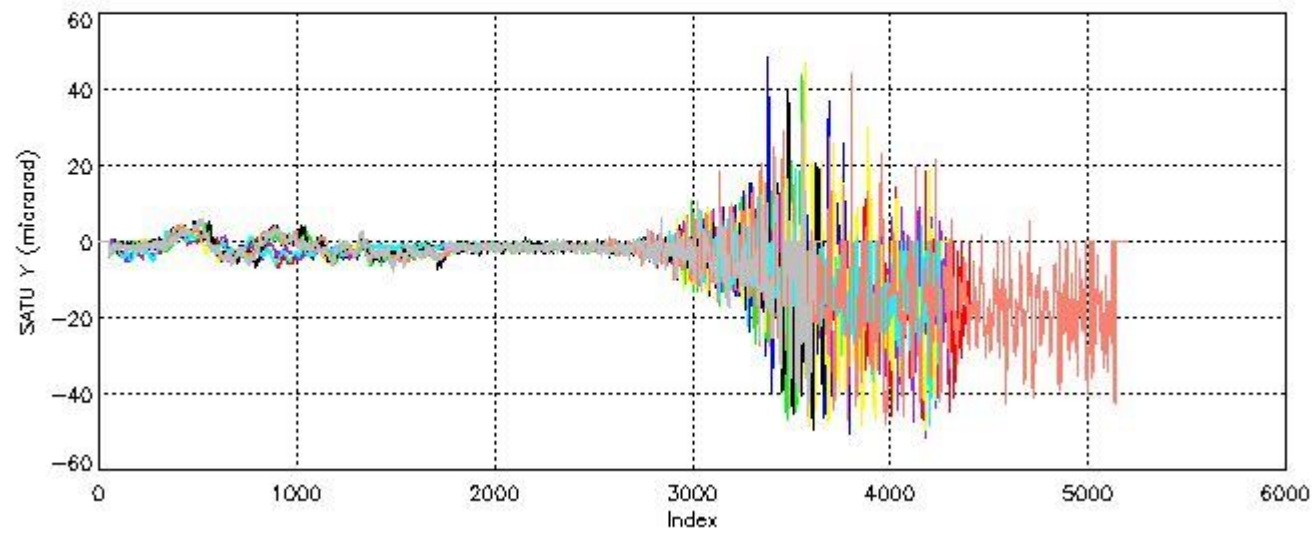
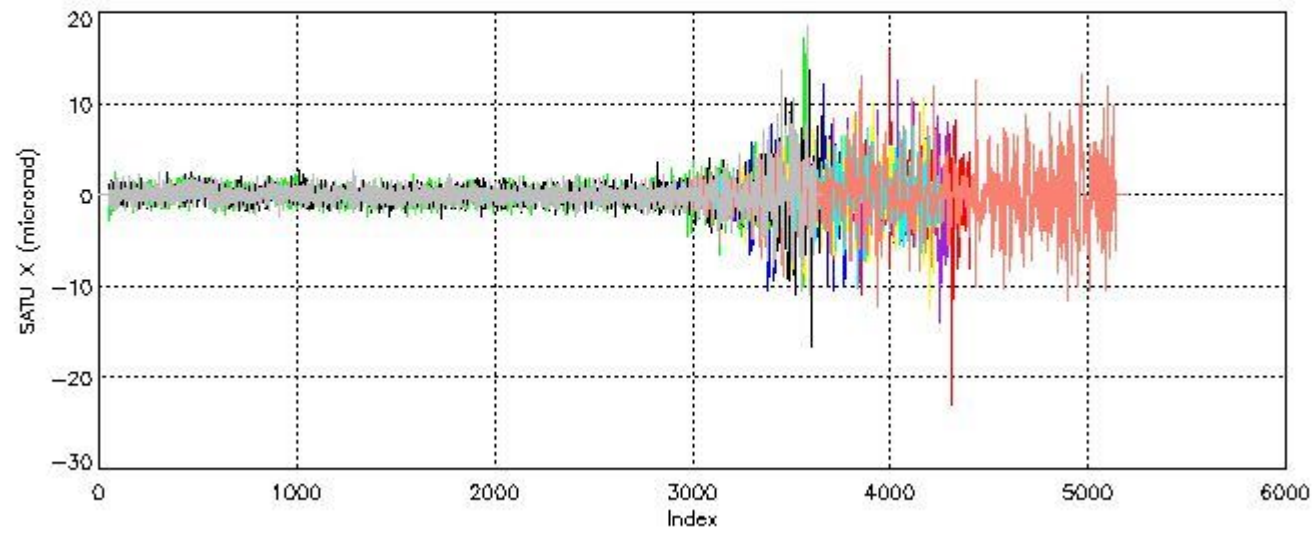


## 7. Star Acquisition and Tracking Unit (SATU)

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:	-0.013770	-0.90970	0.10914	-0.57757
St. deviation:	0.41025	2.1386	0.81419	2.5277
Maximum:	2.5000	5.8000	4.7000	7.5000
Minimum:	-2.7000	-6.7000	-5.3000	-8.4000

Number of data:	7950.0	7950.0	21750.	21750.
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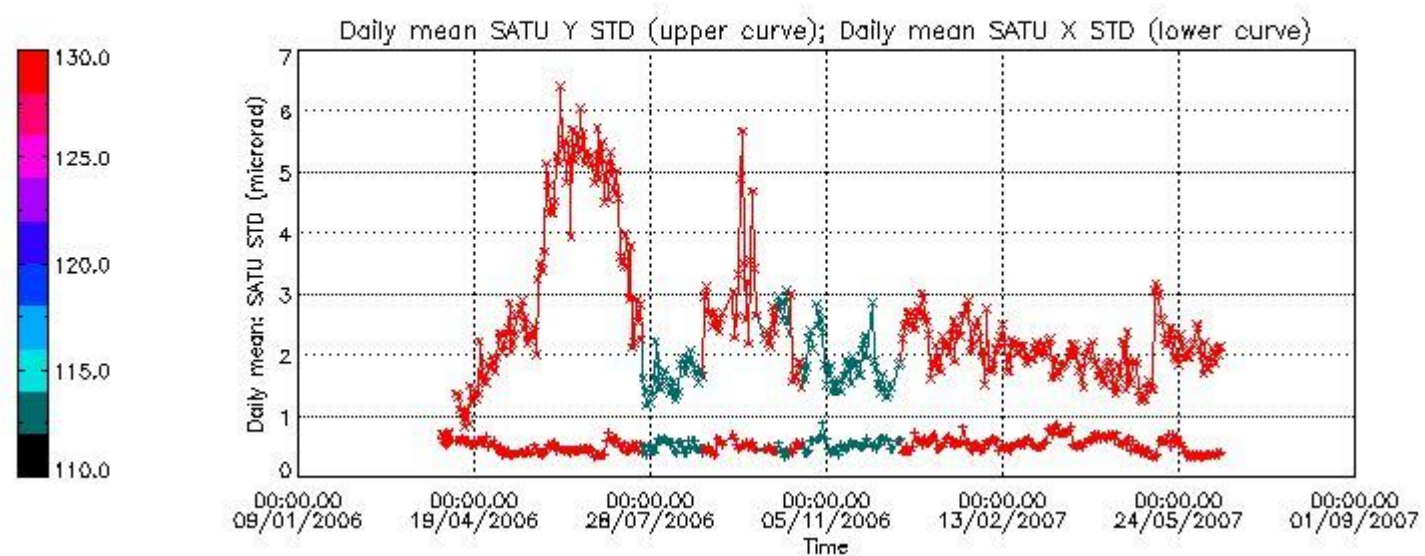
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

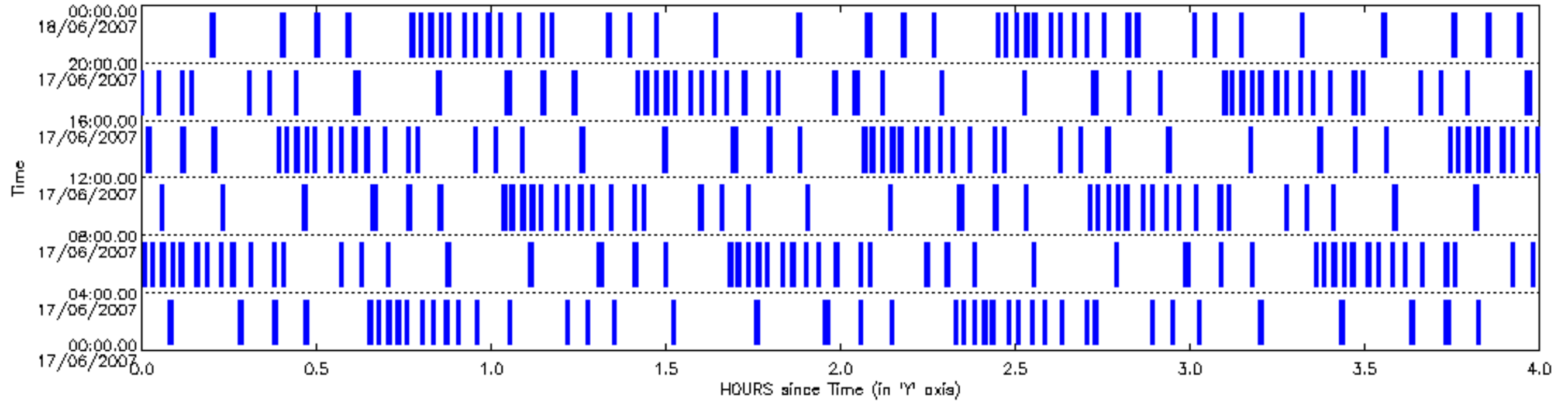


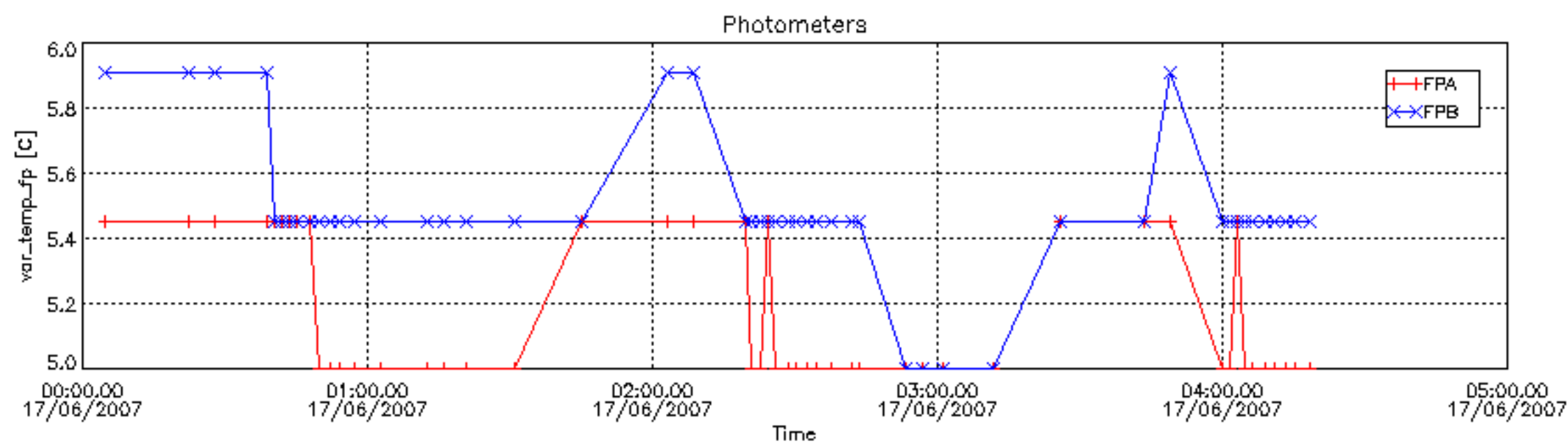
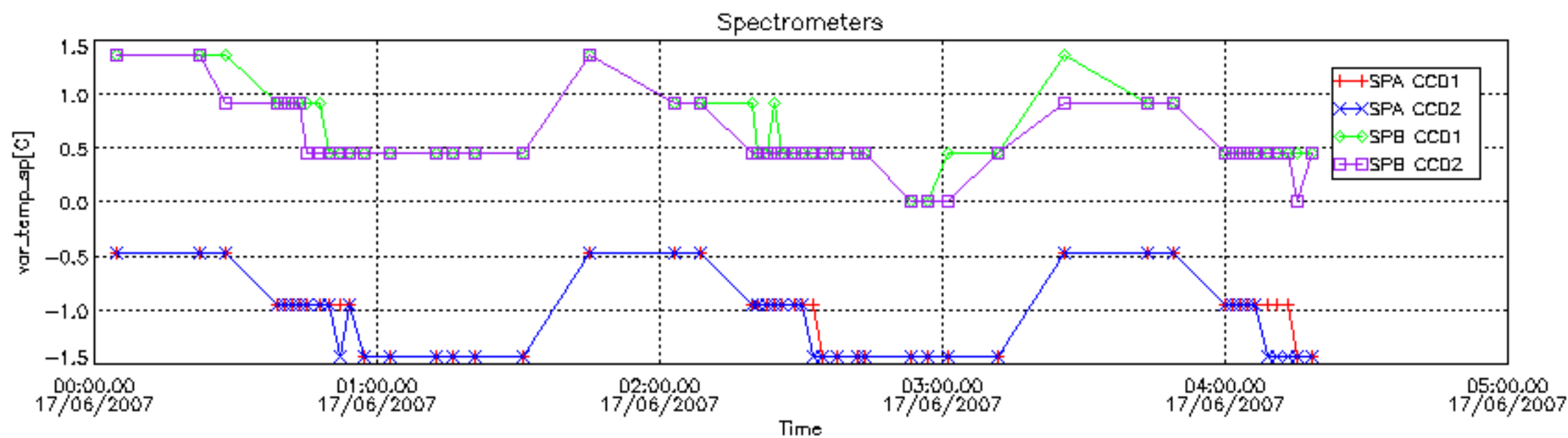
### 8. Auxiliary Data Files used for the production reported in section 2.4

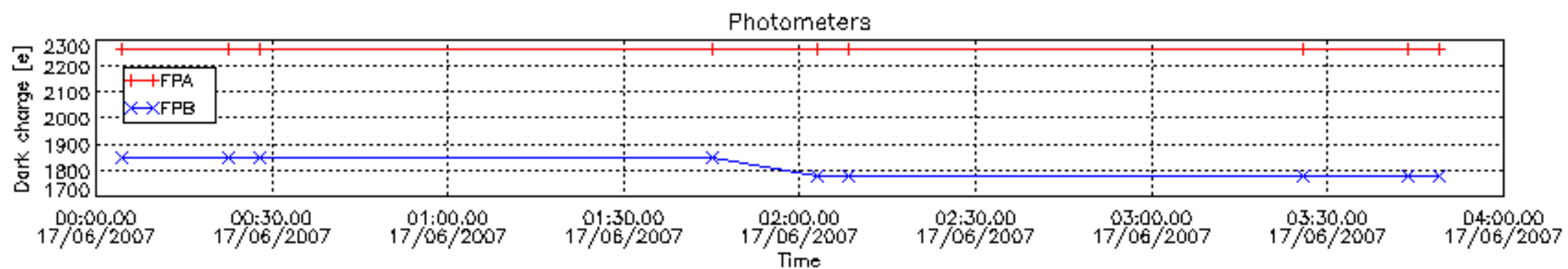
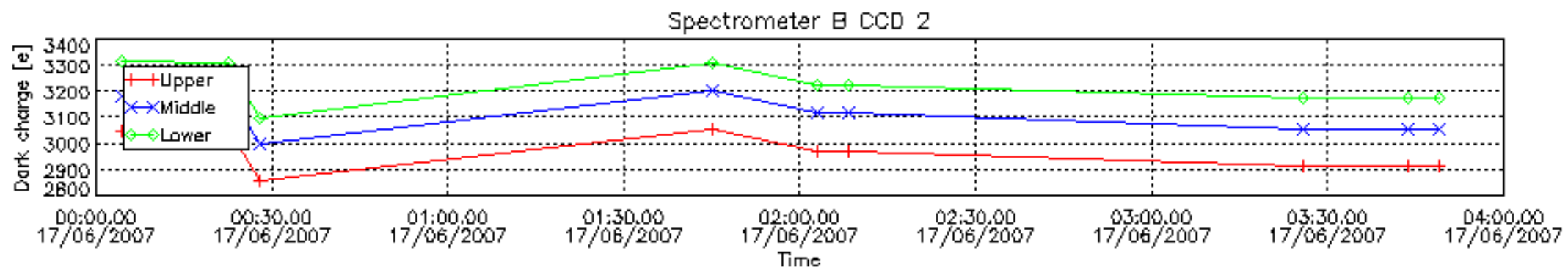
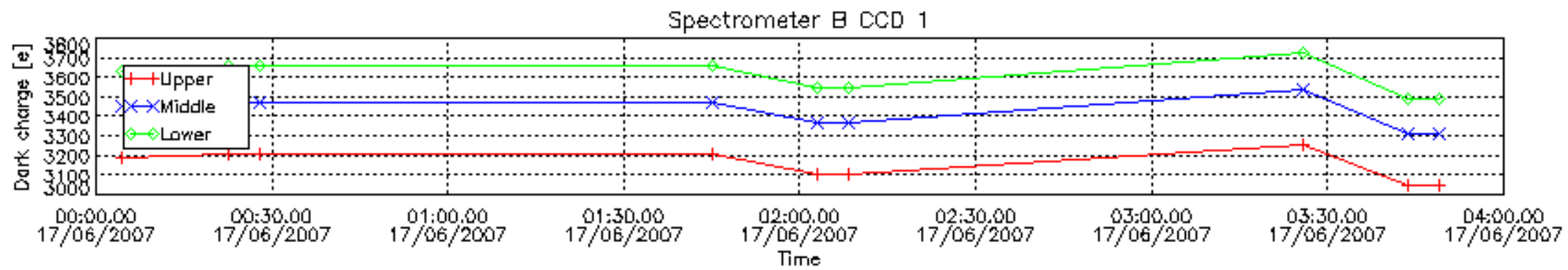
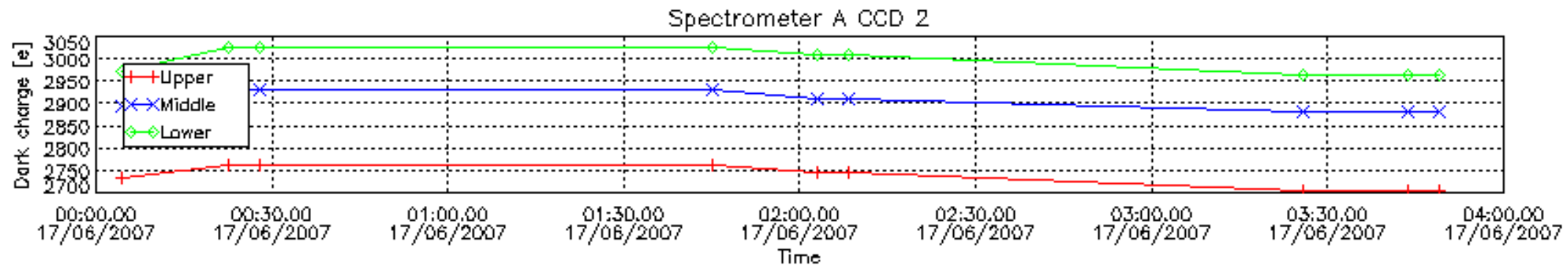
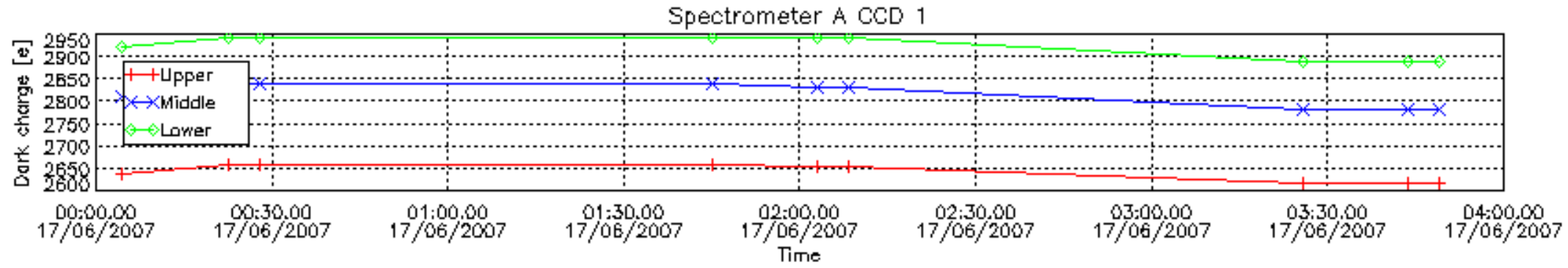
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	17-JUN-2007 00:04:32
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070605_142211_20070604_000000_20100101_000000	1	17-JUN-2007 00:04:32
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	17-JUN-2007 00:04:32
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-JUN-2007 00:04:32
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	17-JUN-2007 00:04:32
ECMWF_FILE	AUX_ECF_AXNECM20070616_062109_20070616_210000_20070617_090000	1	17-JUN-2007 00:04:32
ECMWF_FILE	AUX_ECF_AXNECM20070616_182111_20070617_030000_20070617_150000	37	17-JUN-2007 03:11:38
OPTIONAL_ECMWF_FILE	MISSING	1	17-JUN-2007 00:04:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070616_204524_000057382059_00071_27680_3704.N1	1	17-JUN-2007 00:04:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070616_222621_000057382059_00072_27681_3705.N1	2	17-JUN-2007 00:22:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070617_000718_000057382059_00073_27682_3706.N1	20	17-JUN-2007 02:03:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070617_014815_000041442059_00074_27683_3707.N1	37	17-JUN-2007 03:11:38

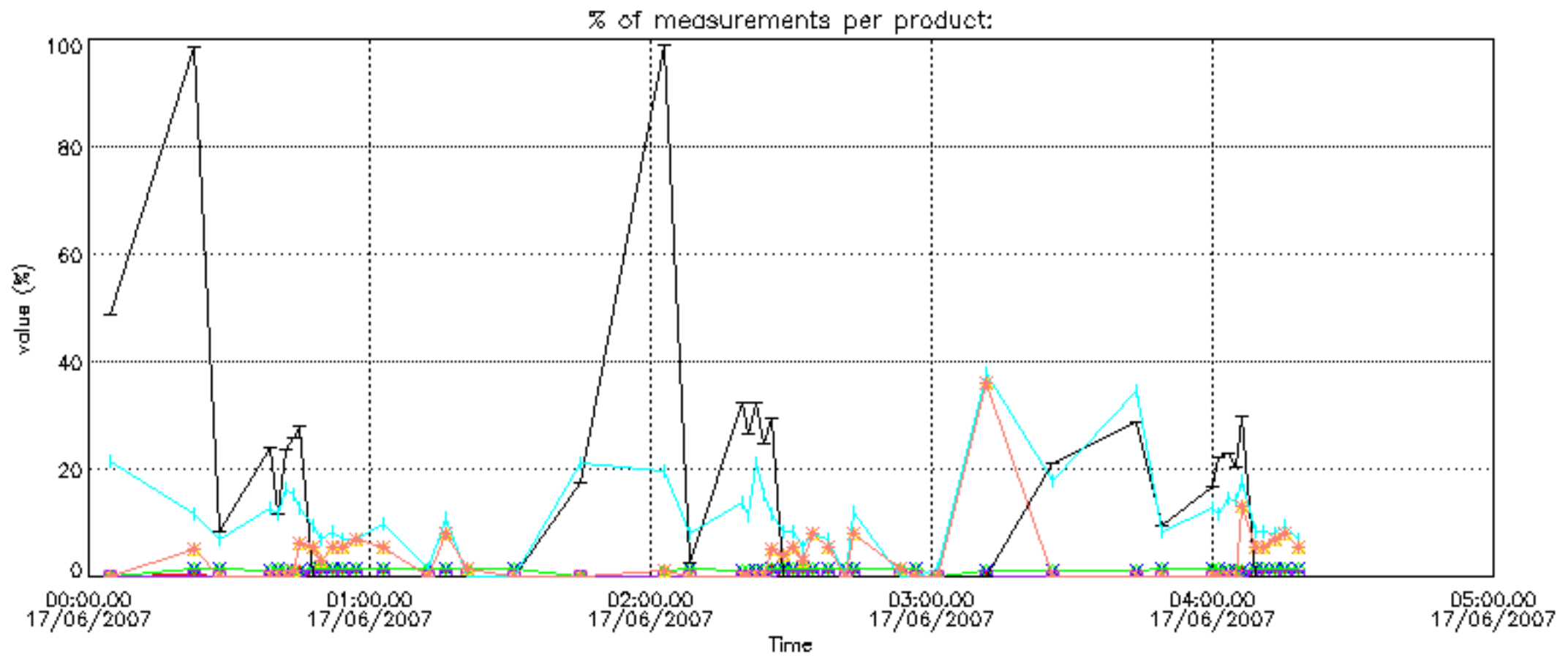




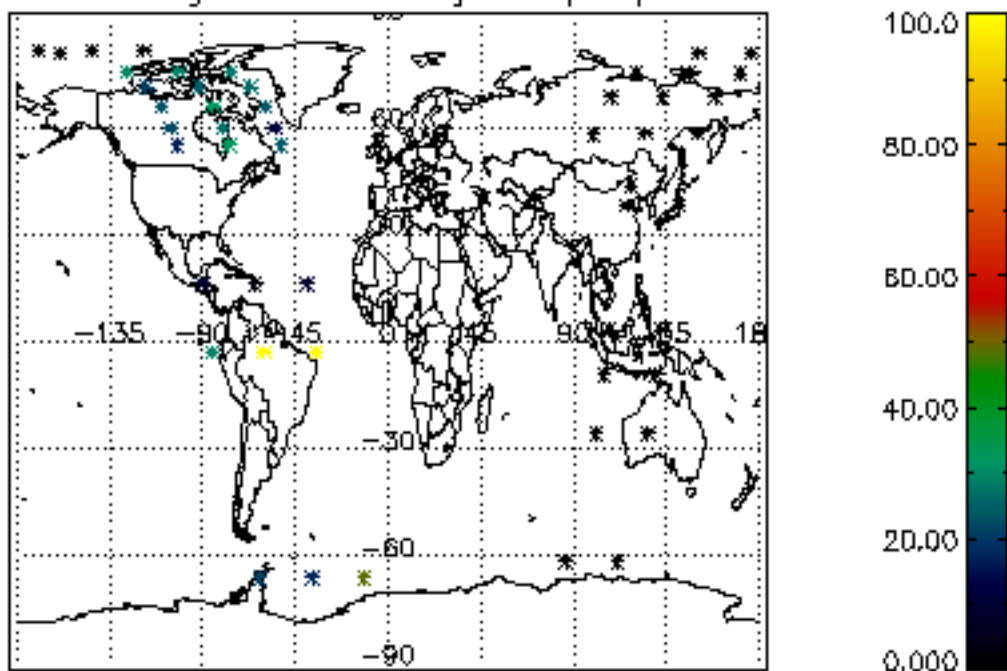




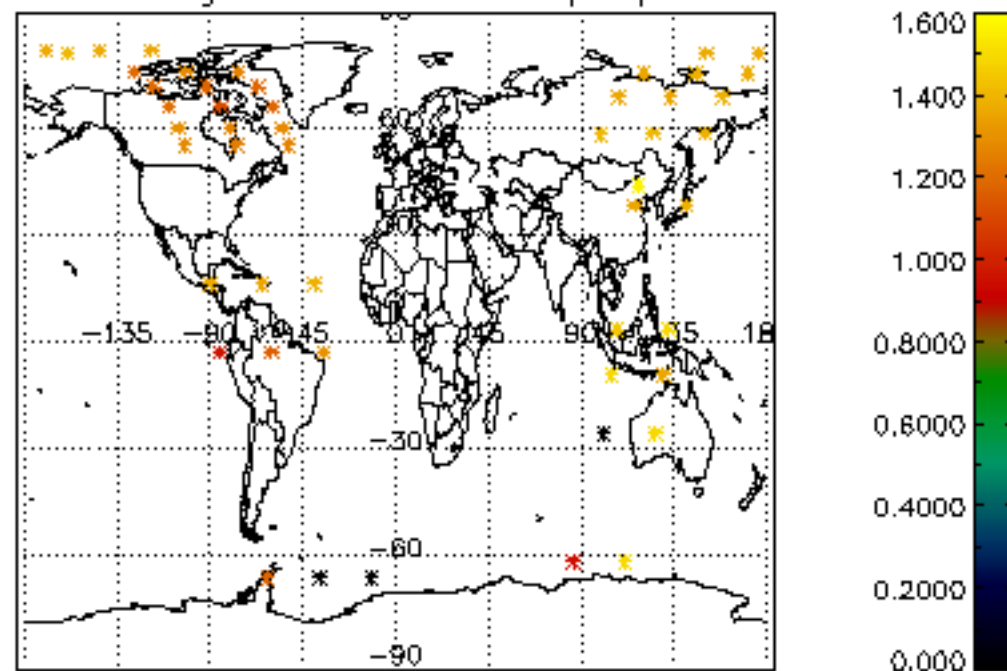




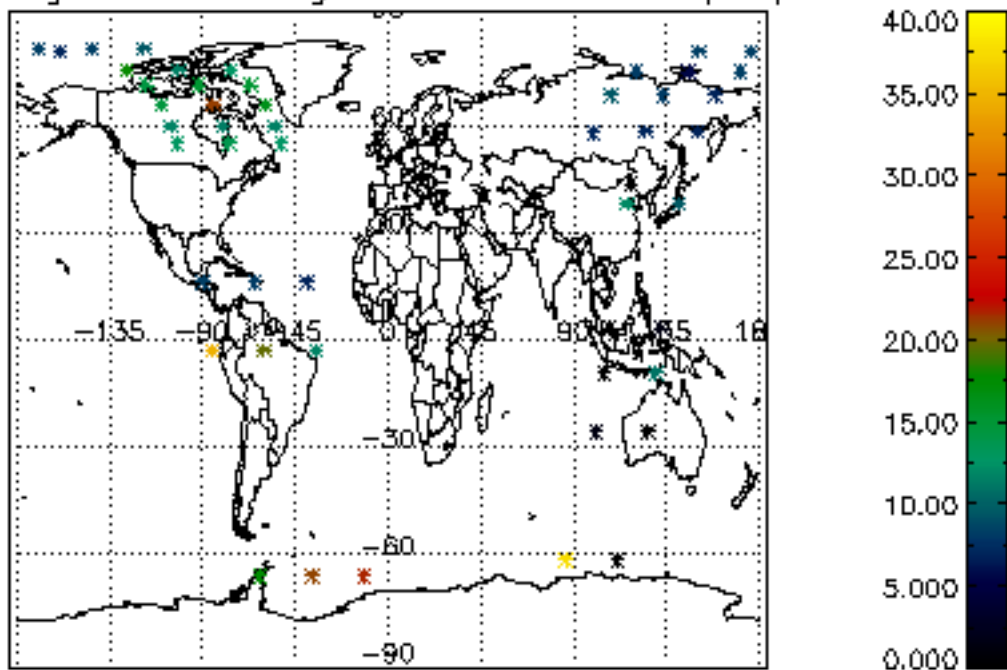
Percentage of cosmic ray hits per profile



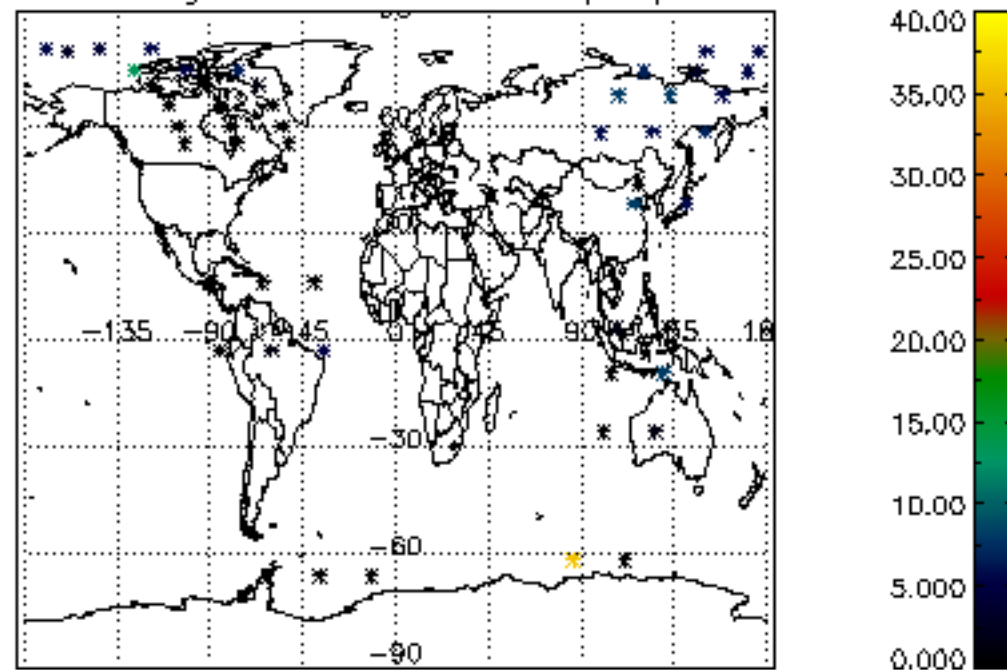
Percentage of datation errors per profile



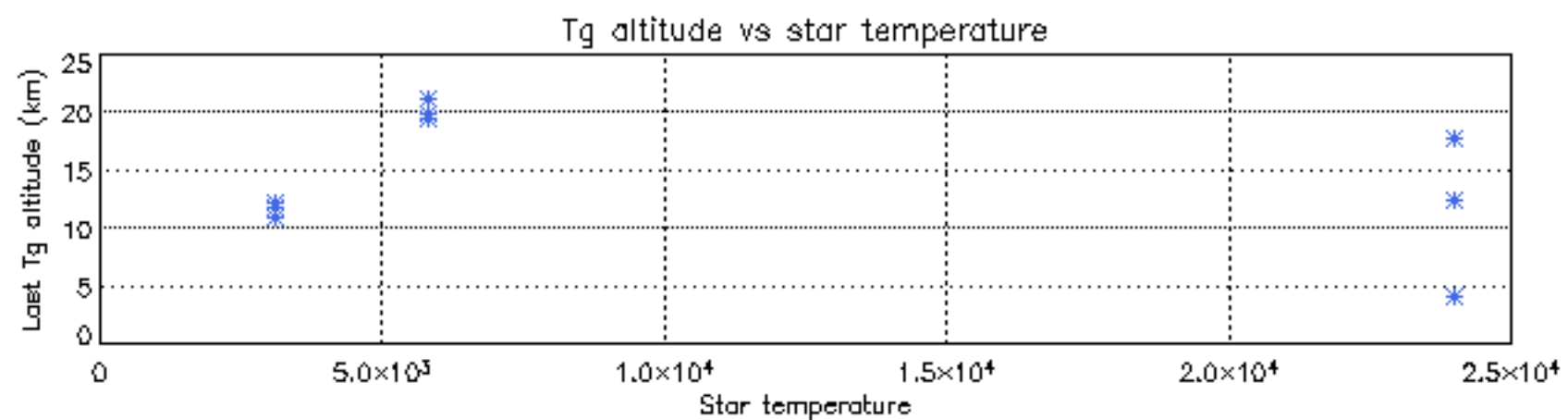
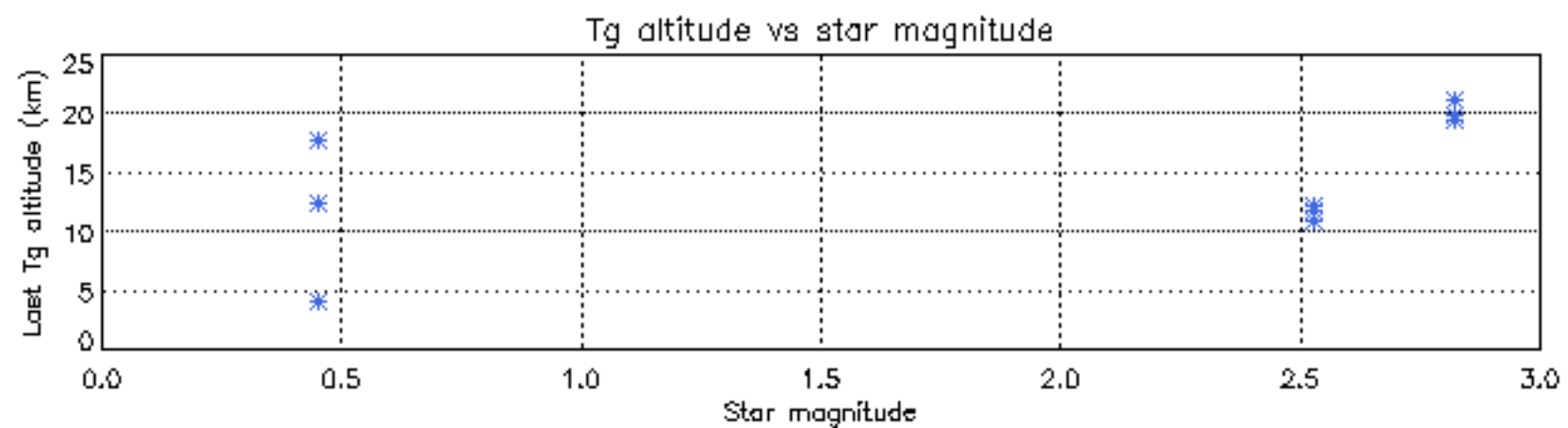
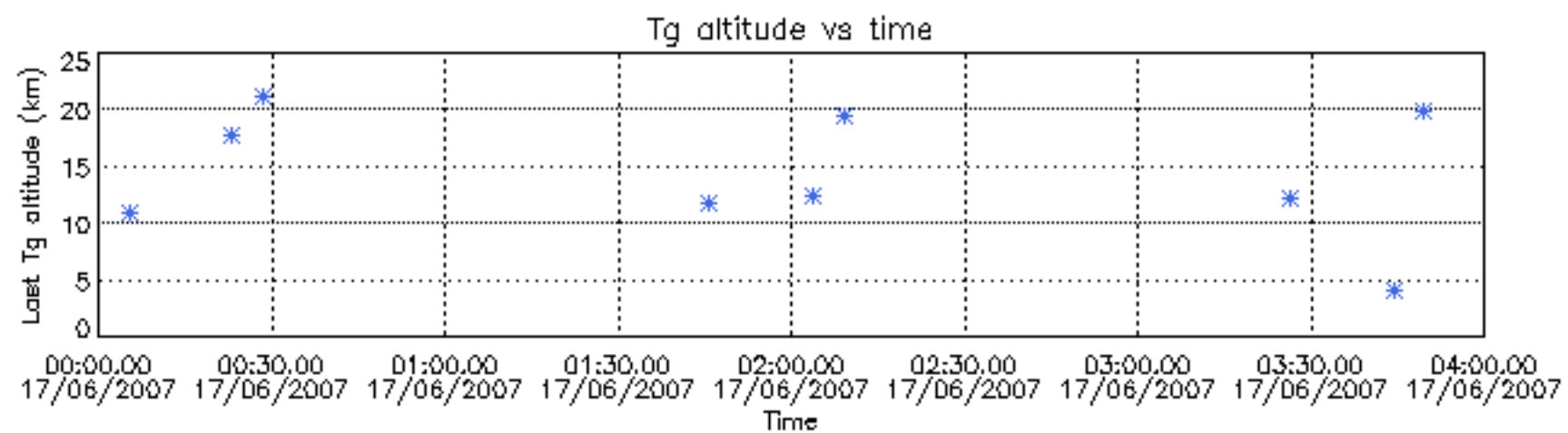
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

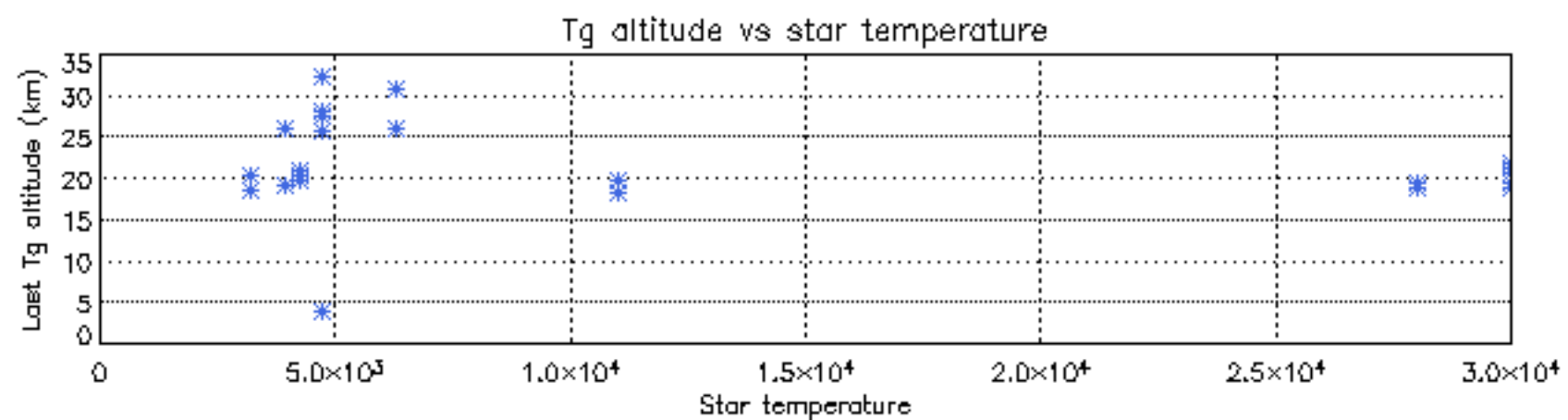
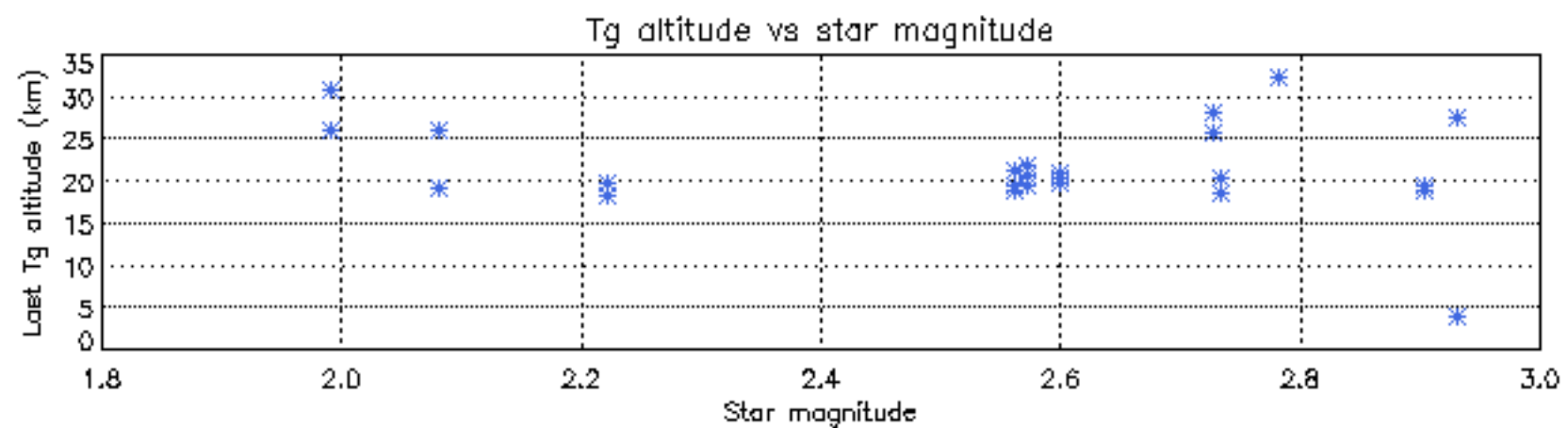
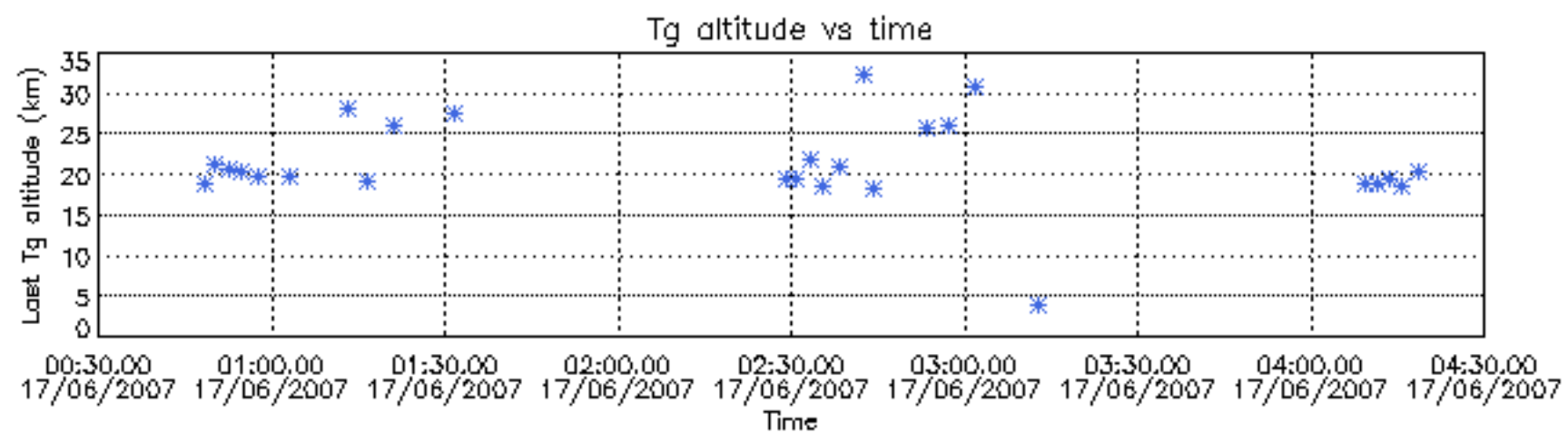


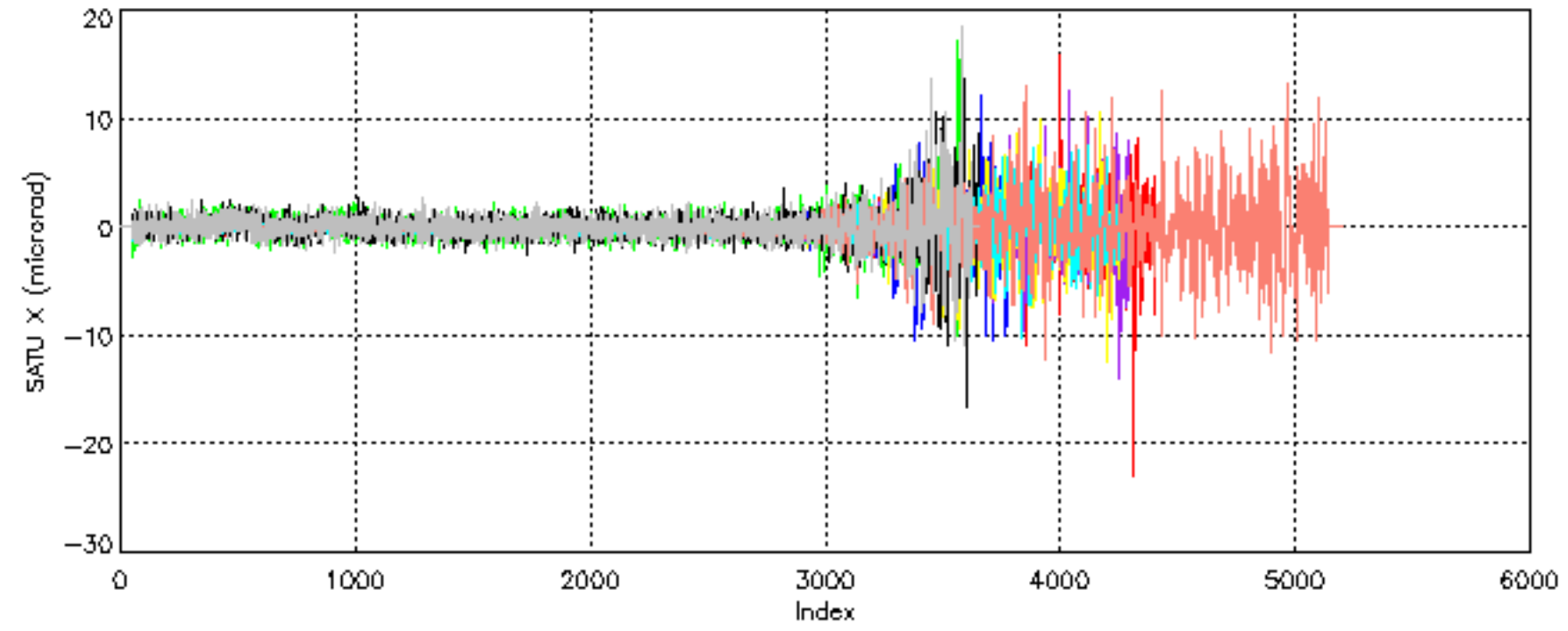
Tangent altitude at which the star is lost

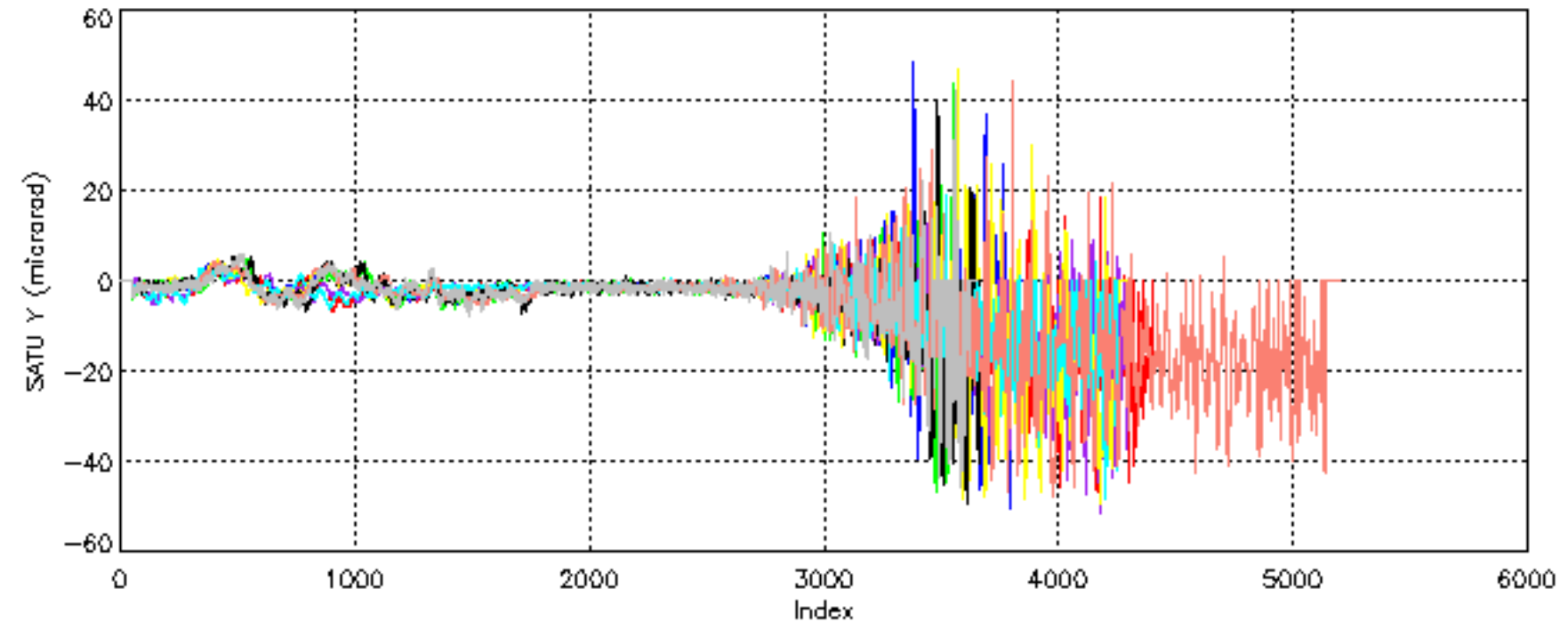




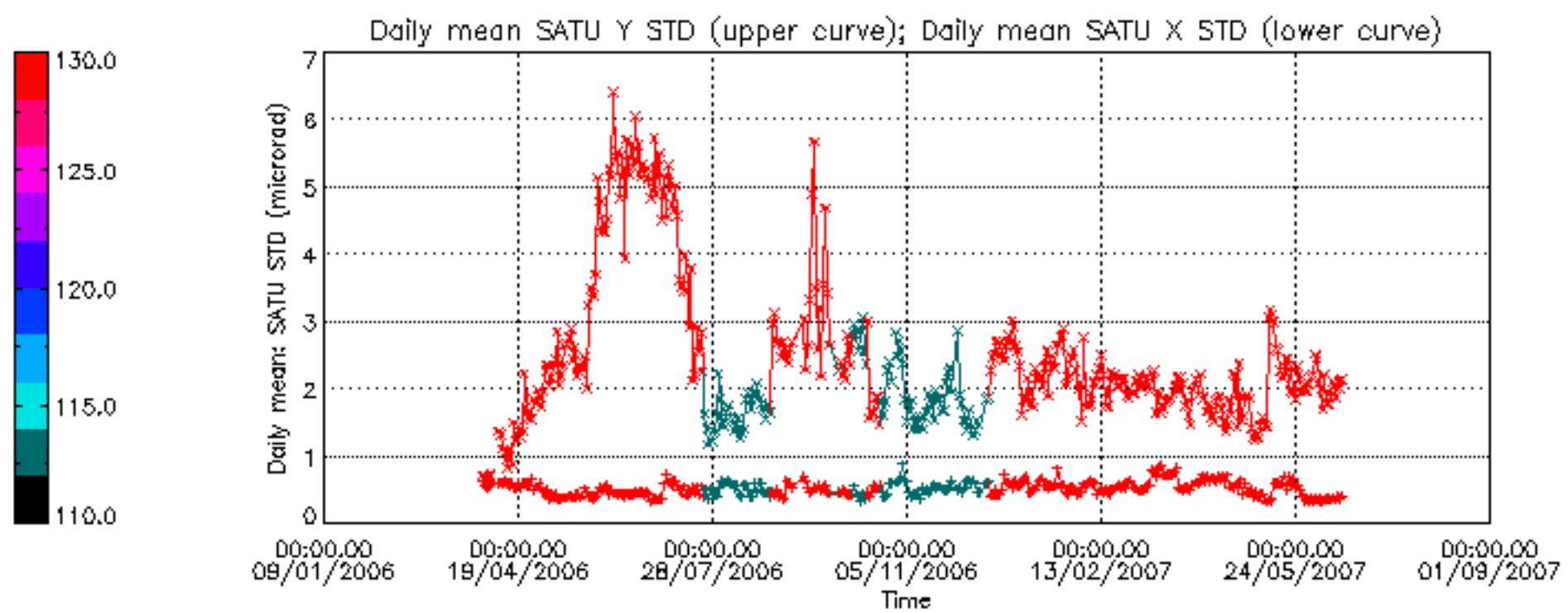
Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_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

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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

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20070601\_031217\_000055862058\_00347\_27455\_3815.N1

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 3; -646.8; 01-JUN-2007 03:36:36; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;27455  
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 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  
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 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  
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 6; 74.4; 01-JUN-2007 05:29:13; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27457  
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 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  
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 13; 1249.7; 01-JUN-2007 05:48:49; Dark ; 47.5; 75; 26Eps Sco ; 2.29; 4250;occ; 95; 0;27457  
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 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  
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 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  
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 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  
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 13; 3165.9; 01-JUN-2007 21:26:08; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;27466  
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 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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 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  
 6; 492.7; 01-JUN-2007 22:22:11; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27467  
 7; 862.6; 01-JUN-2007 22:28:21; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27467  
 8; 937.9; 01-JUN-2007 22:29:36; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27467  
 9; 1039.3; 01-JUN-2007 22:31:18; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27467  
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 20; 2987.7; 06-JUN-2007 01:59:06; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;27526  
 21; 3165.3; 06-JUN-2007 02:02:04; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27526  
 22; 3446.7; 06-JUN-2007 02:06:45; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;27526

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 23; 2499.3; 06-JUN-2007 03:31:33; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;27527  
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 25; 3165.4; 06-JUN-2007 03:42:39; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;27527  
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22; 2301.1; 06-JUN-2007 06:49:27; Bright; 40.5; 127; 27Bet Her ; 2.78; 4700;occ; 81; 0;27529
23; 2498.6; 06-JUN-2007 06:52:45; Bright; 42.0; 133; 40Zet Her ; 2.81; 6000;occ; 84; 0;27529
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25; 3165.3; 06-JUN-2007 07:03:51; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27529
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8; 1706.5; 06-JUN-2007 20:04:20; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;27537
9; 1834.9; 06-JUN-2007 20:06:29; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;27537
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12; 2495.5; 06-JUN-2007 20:17:29; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;27537
13; 2985.1; 06-JUN-2007 20:25:39; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;27537
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15; 3446.7; 06-JUN-2007 20:33:20; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27537
16; 3920.4; 06-JUN-2007 20:41:14; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;27537
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18; 4401.2; 06-JUN-2007 20:49:15; Dark ; 52.0; 53; 43Bet And ; 2.05; 3300;occ; 104; 0;27537
19; 4648.3; 06-JUN-2007 20:53:22; Dark ; 40.5; 105; 6Bet Ari ; 2.64; 8900;occ; 81; 0;27537

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2;	-347.0;	06-JUN-2007	21:10:43;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	27537
3;	-196.2;	06-JUN-2007	21:13:13;	Dark	;	46.5;	84;	Alp	Phe	;	2.40;	4500;	occ;	93;	0;	27537
4;	145.6;	06-JUN-2007	21:18:55;	Dark	;	50.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	100;	0;	27538
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
10;	1174.6;	06-JUN-2007	21:36:04;	Dark	;	46.0;	25;	35Lam	Sco	;	1.62;	28000;	occ;	92;	0;	27538
11;	1272.7;	06-JUN-2007	21:37:42;	Dark	;	45.0;	75;	26Eps	Sco	;	2.29;	4250;	occ;	90;	0;	27538
12;	1390.5;	06-JUN-2007	21:39:40;	Dark	;	42.5;	136;	23Tau	Sco	;	2.82;	30000;	occ;	85;	0;	27538
13;	1511.3;	06-JUN-2007	21:41:41;	Bright;		37.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	75;	0;	27538
14;	1598.7;	06-JUN-2007	21:43:08;	Bright;		42.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	85;	0;	27538
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16;	1834.8;	06-JUN-2007	21:47:04;	Bright;		37.5;	120;	1Del	Oph	;	2.73;	3200;	occ;	75;	0;	27538
17;	2015.0;	06-JUN-2007	21:50:05;	Bright;		35.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	70;	0;	27538
18;	2298.6;	06-JUN-2007	21:54:48;	Bright;		40.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	80;	0;	27538
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20;	2984.7;	06-JUN-2007	22:06:14;	Bright;		51.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	102;	0;	27538
21;	3165.2;	06-JUN-2007	22:09:15;	Bright;		36.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	73;	0;	27538
22;	3446.6;	06-JUN-2007	22:13:56;	Bright;		35.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	71;	0;	27538
23;	3920.0;	06-JUN-2007	22:21:50;	Bright;		36.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	72;	0;	27538
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
26;	4648.5;	06-JUN-2007	22:33:58;	Dark	;	40.5;	105;	6Bet	Ari	;	2.64;	8900;	occ;	81;	0;	27538

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2;	-346.4;	06-JUN-2007	22:51:19;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	27538
3;	-195.5;	06-JUN-2007	22:53:50;	Dark	;	44.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	88;	0;	27538
4;	146.5;	06-JUN-2007	22:59:32;	Dark	;	63.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	126;	0;	27539
5;	264.5;	06-JUN-2007	23:01:30;	Dark	;	52.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	104;	0;	27539
6;	541.3;	06-JUN-2007	23:06:07;	Dark	;	42.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	85;	0;	27539
7;	888.0;	06-JUN-2007	23:11:53;	Dark	;	40.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	80;	0;	27539
8;	966.0;	06-JUN-2007	23:13:11;	Dark	;	37.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	75;	0;	27539
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10;	1174.9;	06-JUN-2007	23:16:40;	Dark	;	44.0;	25;	35Lam	Sco	;	1.62;	28000;	occ;	88;	0;	27539
11;	1273.0;	06-JUN-2007	23:18:18;	Dark	;	43.5;	75;	26Eps	Sco	;	2.29;	4250;	occ;	87;	0;	27539
12;	1390.6;	06-JUN-2007	23:20:16;	Dark	;	45.5;	136;	23Tau	Sco	;	2.82;	30000;	occ;	91;	0;	27539
13;	1511.3;	06-JUN-2007	23:22:17;	Bright;		37.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	75;	0;	27539
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15;	1706.6;	06-JUN-2007	23:25:32;	Bright;		40.0;	98;	13Zet	Oph	;	2.57;	30000;	occ;	80;	0;	27539
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 17; 6581.8; 07-JUN-2007 10:50:23; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27545  
 18; 6926.4; 07-JUN-2007 10:56:07; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27545  
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 21; 7213.5; 07-JUN-2007 11:00:54; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;27545  
 22; 7310.9; 07-JUN-2007 11:02:32; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;27545  
 23; 7464.1; 07-JUN-2007 11:05:05; Bright; 49.0; 16; 21Alp Sco ; 1.02; 3000;occ; 98; 0;27545  
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 25; 7635.5; 07-JUN-2007 11:07:57; Bright; 40.0; 86; 35Eta Oph ; 2.43; 10200;occ; 80; 0;27545

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 3; 2015.5; 07-JUN-2007 11:14:52; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;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  
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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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19; 6926.7; 07-JUN-2007 12:36:44; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;27546  
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21; 7108.1; 07-JUN-2007 12:39:45; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 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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6; 2492.0; 07-JUN-2007 13:03:25; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;27547  
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8; 3165.2; 07-JUN-2007 13:14:38; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27547  
9; 3446.8; 07-JUN-2007 13:19:20; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27547  
10; 3919.0; 07-JUN-2007 13:27:12; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;27547  
11; 4263.7; 07-JUN-2007 13:32:56; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;27547  
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13; 4650.9; 07-JUN-2007 13:39:24; Dark ; 41.0; 105; 6Bet Ari ; 2.64; 8900;occ; 82; 0;27547  
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16; 5846.3; 07-JUN-2007 13:59:19; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;27547  
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18; 6309.3; 07-JUN-2007 14:07:02; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;27547  
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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25; 7464.5; 07-JUN-2007 14:26:17; Bright; 45.0; 16; 21Alp Sco ; 1.02; 3000;occ; 90; 0;27547

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3; 1599.9; 07-JUN-2007 14:29:08; Bright; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;27548  
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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  
7; 2296.5; 07-JUN-2007 14:40:45; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;27548  
8; 2491.6; 07-JUN-2007 14:44:00; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;27548  
9; 2982.8; 07-JUN-2007 14:52:11; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;27548  
10; 3165.4; 07-JUN-2007 14:55:14; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27548  
11; 3446.9; 07-JUN-2007 14:59:55; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;27548  
12; 3919.0; 07-JUN-2007 15:07:48; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;27548  
13; 4263.8; 07-JUN-2007 15:13:32; Bright; 53.5; 73; 57Gam1And ; 2.26; 13100;occ; 107; 0;27548  
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  
17; 5694.9; 07-JUN-2007 15:37:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27548  
18; 5847.0; 07-JUN-2007 15:39:56; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;27548  
19; 6191.7; 07-JUN-2007 15:45:40; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;27548



20; 6310.4; 07-JUN-2007 15:47:39; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 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  
 23; 7005.8; 07-JUN-2007 15:59:14; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;27548  
 24; 7109.0; 07-JUN-2007 16:00:58; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;27548  
 25; 7214.7; 07-JUN-2007 16:02:43; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 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  
 8; 2296.3; 07-JUN-2007 16:21:21; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;27549  
 9; 2491.3; 07-JUN-2007 16:24:36; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;27549  
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 12; 3446.8; 07-JUN-2007 16:40:31; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27549  
 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  
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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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 25; 7109.4; 07-JUN-2007 17:41:34; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 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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 21; 5848.2; 07-JUN-2007 19:01:09; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;27550  
 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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 7; 1600.2; 07-JUN-2007 19:30:57; Bright; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;27551



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10; 2015.6; 07-JUN-2007 19:37:52; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;27551
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4;	945.0;	20-JUN-2007	22:32:36;	Dark	;	44.0;	141;	Bet Ara	;	2.84;	4600;	occ;	88;	0;	27739
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13;	2037.4;	20-JUN-2007	22:50:49;	Bright;		34.0;	102;	24Alp Ser	;	2.60;	4250;	occ;	68;	0;	27739
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17;	3174.3;	20-JUN-2007	23:09:46;	Bright;		33.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	67;	0;	27739
18;	3446.3;	20-JUN-2007	23:14:18;	Bright;		32.0;	49;	1Alp UMi	;	1.99;	6300;	occ;	64;	0;	27739
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13; 2043.0; 22-JUN-2007 23:28:16; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27768  
14; 2274.1; 22-JUN-2007 23:32:08; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;27768  
15; 2383.8; 22-JUN-2007 23:33:57; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27768  
16; 2953.1; 22-JUN-2007 23:43:26; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;27768  
17; 3176.9; 22-JUN-2007 23:47:10; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27768  
18; 3446.1; 22-JUN-2007 23:51:39; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27768  
19; 4065.2; 23-JUN-2007 00:01:59; Bright; 34.0; 160; 23Gam Per ; 2.93; 4700;occ; 68; 0;27768  
20; 4286.7; 23-JUN-2007 00:05:40; Bright; 38.5; 79; 26Bet Per ; 2.31; 13100;occ; 77; 0;27768  
21; 4933.1; 23-JUN-2007 00:16:26; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;27768  
22; 5175.1; 23-JUN-2007 00:20:29; Dark ; 38.5; 165; 34Gam Eri ; 2.95; 3200;occ; 77; 0;27768

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3; -1106.0; 22-JUN-2007 07:30:24; Dark ; 38.0; 94; 92Alp Cet ; 2.53; 3100;occ; 76; 0;27758  
4; -862.3; 22-JUN-2007 07:34:28; Dark ; 40.0; 165; 34Gam Eri ; 2.95; 3200;occ; 80; 0;27758  
5; -386.8; 22-JUN-2007 07:42:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27758

6; -22.7; 22-JUN-2007 07:48:27; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;27758  
 7; 287.6; 22-JUN-2007 07:53:38; Dark ; 35.0; 135; Bet Hyi ; 2.82; 5800;occ; 70; 0;27759  
 8; 949.7; 22-JUN-2007 08:04:40; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27759  
 9; 1034.0; 22-JUN-2007 08:06:04; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;27759  
 10; 1140.4; 22-JUN-2007 08:07:50; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;27759  
 11; 1241.7; 22-JUN-2007 08:09:32; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;27759  
 12; 1323.1; 22-JUN-2007 08:10:53; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;27759  
 13; 1486.4; 22-JUN-2007 08:13:36; Bright; 36.5; 156; 20Sig Sco ; 2.90; 28000;occ; 73; 0;27759  
 14; 1624.7; 22-JUN-2007 08:15:55; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;27759

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 4; 2274.1; 22-JUN-2007 08:26:44; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;27759  
 5; 2382.0; 22-JUN-2007 08:28:32; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;27759  
 6; 2953.7; 22-JUN-2007 08:38:04; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;27759  
 7; 3176.2; 22-JUN-2007 08:41:46; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27759  
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 11; 4930.2; 22-JUN-2007 09:11:00; Dark ; 36.0; 94; 92Alp Cet ; 2.53; 3100;occ; 72; 0;27759  
 12; 5173.8; 22-JUN-2007 09:15:04; Dark ; 43.0; 165; 34Gam Eri ; 2.95; 3200;occ; 86; 0;27759  
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 14; 6013.6; 22-JUN-2007 09:29:04; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;27759  
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 18; 7176.5; 22-JUN-2007 09:48:27; Dark ; 40.0; 40; The Sco ; 1.86; 7100;occ; 80; 0;27759  
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 20; 7359.1; 22-JUN-2007 09:51:29; Dark ; 44.0; 75; 26Eps Sco ; 2.29; 4250;occ; 88; 0;27759  
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 22; 7660.6; 22-JUN-2007 09:56:31; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;27759  
 23; 7764.3; 22-JUN-2007 09:58:14; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;27759

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 4; 2274.1; 22-JUN-2007 10:07:20; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;27760  
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 6; 2953.6; 22-JUN-2007 10:18:40; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;27760  
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 9; 4065.1; 22-JUN-2007 10:37:11; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;27760  
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 11; 4930.4; 22-JUN-2007 10:51:36; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;27760  
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 13; 5649.9; 22-JUN-2007 11:03:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27760  
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 16; 6986.0; 22-JUN-2007 11:25:52; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;27760  
 17; 7070.4; 22-JUN-2007 11:27:16; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;27760  
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 19; 7278.0; 22-JUN-2007 11:30:44; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;27760  
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 22; 7660.7; 22-JUN-2007 11:37:07; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;27760

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 5; 2274.1; 22-JUN-2007 11:47:56; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;27761  
 6; 2382.4; 22-JUN-2007 11:49:44; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27761  
 7; 2953.6; 22-JUN-2007 11:59:15; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;27761  
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 10; 4065.1; 22-JUN-2007 12:17:47; Bright; 33.5; 160; 23Gam Per ; 2.93; 4700;occ; 67; 0;27761  
 11; 4286.4; 22-JUN-2007 12:21:28; Bright; 36.5; 79; 26Bet Per ; 2.31; 13100;occ; 73; 0;27761

12; 4930.8; 22-JUN-2007 12:32:13; Dark ; 48.5; 94; 92Alp Cet ; 2.53; 3100;occ; 97; 0;27761  
 13; 5174.2; 22-JUN-2007 12:36:16; Dark ; 40.0; 165; 34Gam Eri ; 2.95; 3200;occ; 80; 0;27761  
 14; 5650.4; 22-JUN-2007 12:44:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27761  
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 17; 6986.2; 22-JUN-2007 13:06:28; Dark ; 37.0; 141; Bet Ara ; 2.84; 4600;occ; 74; 0;27761  
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 5; 2041.9; 22-JUN-2007 13:24:40; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27762  
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 9; 3176.4; 22-JUN-2007 13:43:34; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27762  
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 12; 4286.3; 22-JUN-2007 14:02:04; Bright; 36.0; 79; 26Bet Per ; 2.31; 13100;occ; 72; 0;27762  
 13; 4931.2; 22-JUN-2007 14:12:49; Dark ; 46.5; 94; 92Alp Cet ; 2.53; 3100;occ; 93; 0;27762  
 14; 5174.5; 22-JUN-2007 14:16:52; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;27762  
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 17; 6324.3; 22-JUN-2007 14:36:02; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;27762  
 18; 6986.5; 22-JUN-2007 14:47:04; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;27762  
 19; 7071.0; 22-JUN-2007 14:48:29; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;27762  
 20; 7177.4; 22-JUN-2007 14:50:15; Dark ; 43.5; 40; The Sco ; 1.86; 7100;occ; 87; 0;27762  
 21; 7278.7; 22-JUN-2007 14:51:56; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;27762  
 22; 7359.8; 22-JUN-2007 14:53:17; Dark ; 45.0; 75; 26Eps Sco ; 2.29; 4250;occ; 90; 0;27762

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 2; 1625.2; 22-JUN-2007 14:58:19; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;27763  
 3; 1728.9; 22-JUN-2007 15:00:02; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;27763  
 4; 1855.4; 22-JUN-2007 15:02:09; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;27763  
 5; 2042.1; 22-JUN-2007 15:05:16; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;27763  
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 12; 4286.6; 22-JUN-2007 15:42:40; Bright; 54.0; 79; 26Bet Per ; 2.31; 13100;occ; 108; 0;27763  
 13; 4931.8; 22-JUN-2007 15:53:25; Dark ; 46.0; 94; 92Alp Cet ; 2.53; 3100;occ; 92; 0;27763  
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 16; 6015.4; 22-JUN-2007 16:11:29; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;27763  
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 18; 6986.9; 22-JUN-2007 16:27:40; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;27763  
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 3; 1487.4; 22-JUN-2007 16:36:37; Bright; 36.5; 156; 20Sig Sco ; 2.90; 28000;occ; 73; 0;27764  
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 5; 1729.1; 22-JUN-2007 16:40:39; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;27764  
 6; 1855.5; 22-JUN-2007 16:42:45; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;27764  
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2; 1743.5; 29-JUN-2007 11:18:58; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;27861

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 7; 2813.9; 29-JUN-2007 11:36:49; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27861  
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 9; 3187.7; 29-JUN-2007 11:43:03; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27861  
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 9; 3187.9; 29-JUN-2007 13:23:39; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;27862  
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 18; 6503.6; 29-JUN-2007 14:18:54; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;27862  
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 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  
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 8; 1266.4; 29-JUN-2007 22:55:13; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;27868  
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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
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11;	2813.3;	29-JUN-2007	18:19:12;	Bright;		37.5;	130;	23Bet Dra	;	2.80;	5800;occ;	75;	0;	27865
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13;	3188.2;	29-JUN-2007	18:25:27;	Bright;		35.5;	60;	7Bet UMi	;	2.08;	3950;occ;	71;	0;	27865
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