

# GOMOS Daily Report 26-JUN-2007

## Level 0 and Level 1 products

### SUMMARY

#### [1. General Info](#)

#### [2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

#### [3. Plot of Spectrometers and Photometers temperatures](#)

#### [4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

#### [5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

#### [6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

#### [7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

## [Level 2 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	28JUN2007 05:33:27
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (26JUN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (27JUN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

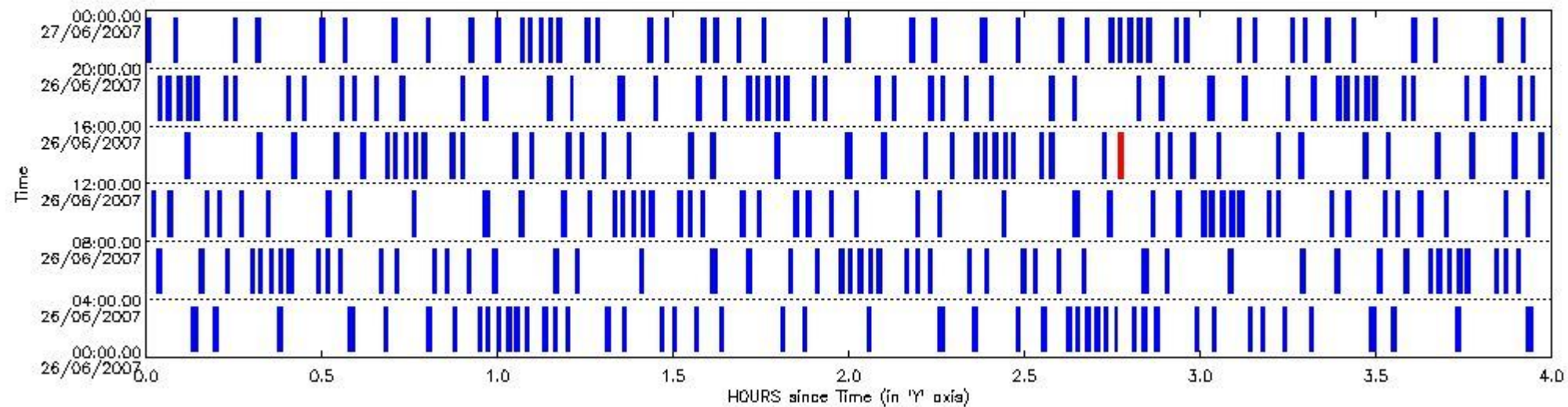
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

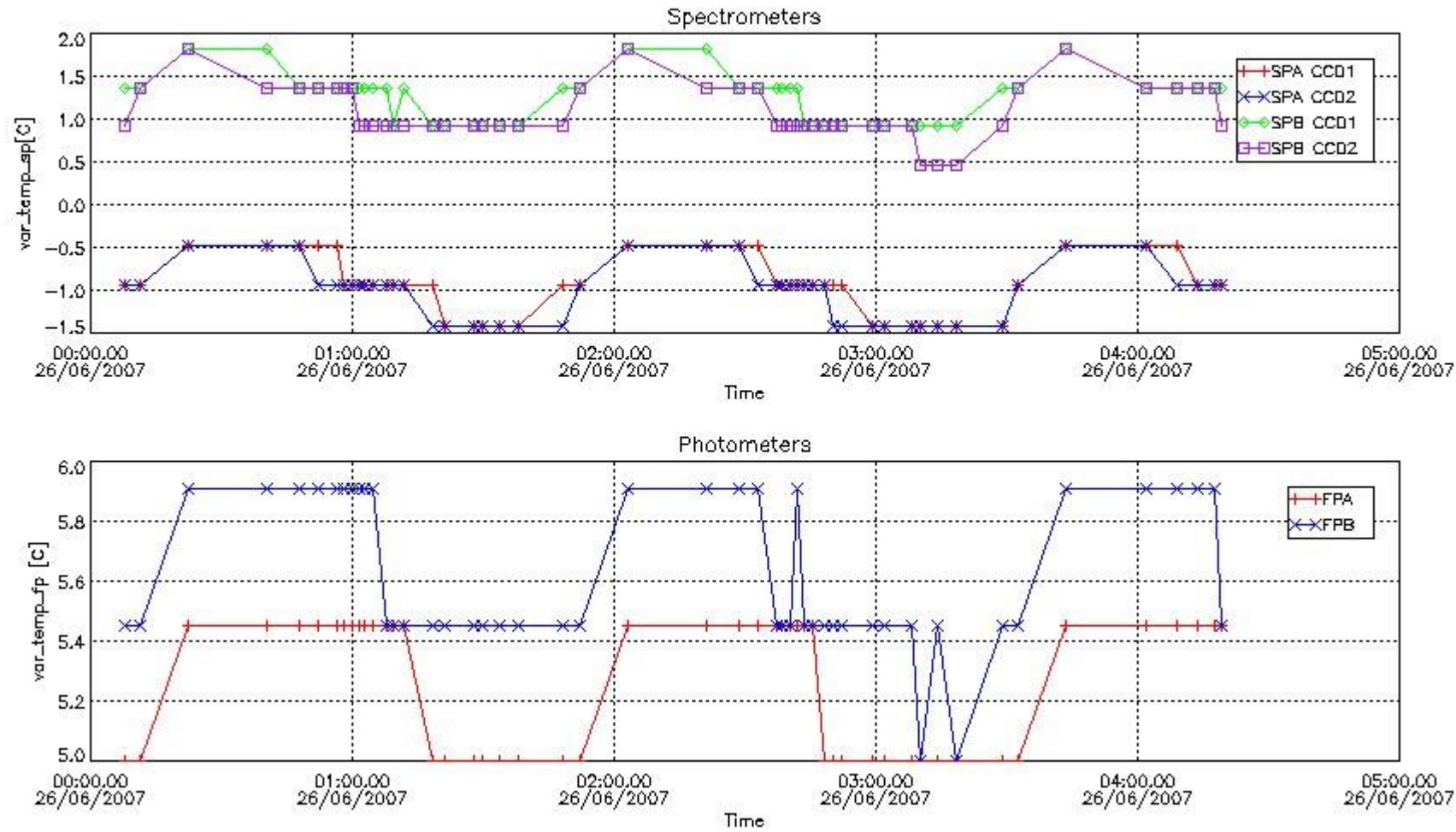
UTC start time	Star name	Star ID	Orbit
26-JUN-2007 14:45:59	40ZetHer	133	27820

### 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_1PNPDE20070626_000744_000000542059_00202_27811_3432.N1	26-JUN-2007 00:07:44	Bright	54.000	160	23Gam Per	2.9300	4700.0	108	27811	No
2	GOM_TRA_1PNPDE20070626_001128_000000472059_00202_27811_3433.N1	26-JUN-2007 00:11:28	Bright	46.500	79	26Bet Per	2.3100	13100.	93	27811	No
3	GOM_TRA_1PNPDE20070626_002226_000000422059_00202_27811_3434.N1	26-JUN-2007 00:22:26	Dark	42.000	94	92Alp Cet	2.5260	3100.0	84	27811	No
4	GOM_TRA_1PNPDE20070626_004034_000000402059_00203_27812_3599.N1	26-JUN-2007 00:40:34	Dark	40.000	9	Alp Eri	0.45300	24000.	80	27812	No
5	GOM_TRA_1PNPDE20070626_004751_000000422059_00203_27812_3600.N1	26-JUN-2007 00:47:51	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	27812	No
6	GOM_TRA_1PNPDE20070626_005220_000000412059_00203_27812_3601.N1	26-JUN-2007 00:52:20	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	27812	No
7	GOM_TRA_1PNPDE20070626_005635_000000402059_00203_27812_3602.N1	26-JUN-2007 00:56:35	Straylight	40.000	141	Bet Ara	2.8400	4600.0	80	27812	No
8	GOM_TRA_1PNPDE20070626_005801_000000382059_00203_27812_3603.N1	26-JUN-2007 00:58:01	Straylight	37.500	147	Alp Ara	2.8770	26000.	75	27812	No
9	GOM_TRA_1PNPDE20070626_005948_000000442059_00203_27812_3604.N1	26-JUN-2007 00:59:48	Twilight_stray	43.500	40	The Sco	1.8590	7100.0	87	27812	No
10	GOM_TRA_1PNPDE20070626_010128_000000442059_00203_27812_3605.N1	26-JUN-2007 01:01:28	Twilight_stray	44.000	25	35Lam Sco	1.6200	28000.	88	27812	No

11	GOM_TRA_1PNPDE20070626_010251_000000442059_00203_27812_3606.N1	26-JUN-2007 01:02:51	Bright	43.500	116	19Del Sgr	2.7000	4100.0	87	27812	No
12	GOM_TRA_1PNPDE20070626_010437_000000372059_00203_27812_3607.N1	26-JUN-2007 01:04:37	Bright	36.500	136	23Tau Sco	2.8220	30000.	73	27812	No
13	GOM_TRA_1PNPDE20070626_010746_000000372059_00203_27812_3608.N1	26-JUN-2007 01:07:46	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	27812	No
14	GOM_TRA_1PNPDE20070626_010930_000000362059_00203_27812_3609.N1	26-JUN-2007 01:09:30	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	27812	No
15	GOM_TRA_1PNPDE20070626_011137_000000372059_00203_27812_3610.N1	26-JUN-2007 01:11:37	Bright	36.500	120	1Del Oph	2.7340	3200.0	73	27812	No
16	GOM_TRA_1PNPDE20070626_011830_000000372059_00203_27812_3611.N1	26-JUN-2007 01:18:30	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	27812	No
17	GOM_TRA_1PNPDE20070626_012120_000000362059_00203_27812_3612.N1	26-JUN-2007 01:21:20	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	27812	No
18	GOM_TRA_1PNPDE20070626_012739_000000372059_00203_27812_3613.N1	26-JUN-2007 01:27:39	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	27812	No
19	GOM_TRA_1PNPDE20070626_012946_000000372059_00203_27812_3614.N1	26-JUN-2007 01:29:46	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	27812	No
20	GOM_TRA_1PNPDE20070626_013336_000000332059_00203_27812_3615.N1	26-JUN-2007 01:33:36	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	27812	No
21	GOM_TRA_1PNPDE20070626_013800_000000362059_00203_27812_3616.N1	26-JUN-2007 01:38:00	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	27812	No
22	GOM_TRA_1PNPDE20070626_014819_000000352059_00203_27812_3617.N1	26-JUN-2007 01:48:19	Bright	35.000	160	23Gam Per	2.9300	4700.0	70	27812	No
23	GOM_TRA_1PNPDE20070626_015204_000000372059_00203_27812_3618.N1	26-JUN-2007 01:52:04	Bright	37.000	79	26Bet Per	2.3100	13100.	74	27812	No
24	GOM_TRA_1PNPDE20070626_020302_000000432059_00203_27812_3619.N1	26-JUN-2007 02:03:02	Dark	42.500	94	92Alp Cet	2.5260	3100.0	85	27812	No
25	GOM_TRA_1PNPDE20070626_022110_000000432059_00204_27813_3735.N1	26-JUN-2007 02:21:10	Dark	42.500	9	Alp Eri	0.45300	24000.	85	27813	No
26	GOM_TRA_1PNPDE20070626_022827_000000422059_00204_27813_3736.N1	26-JUN-2007 02:28:27	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	27813	No
27	GOM_TRA_1PNPDE20070626_023256_000000442059_00204_27813_3737.N1	26-JUN-2007 02:32:56	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	27813	No
28	GOM_TRA_1PNPDE20070626_023711_000000382059_00204_27813_3738.N1	26-JUN-2007 02:37:11	Straylight	38.000	141	Bet Ara	2.8400	4600.0	76	27813	No
29	GOM_TRA_1PNPDE20070626_023837_000000382059_00204_27813_3739.N1	26-JUN-2007 02:38:37	Straylight	37.500	147	Alp Ara	2.8770	26000.	75	27813	No
30	GOM_TRA_1PNPDE20070626_024024_000000422059_00204_27813_3740.N1	26-JUN-2007 02:40:24	Tw_i_and_stray	41.500	40	The Sco	1.8590	7100.0	83	27813	No
31	GOM_TRA_1PNPDE20070626_024205_000000412059_00204_27813_3741.N1	26-JUN-2007 02:42:05	Tw_i_and_stray	40.500	25	35Lam Sco	1.6200	28000.	81	27813	No
32	GOM_TRA_1PNPDE20070626_024327_000000432059_00204_27813_3742.N1	26-JUN-2007 02:43:27	Bright	43.000	116	19Del Sgr	2.7000	4100.0	86	27813	No
33	GOM_TRA_1PNPDE20070626_024521_000000302059_00204_27813_3743.N1	26-JUN-2007 02:45:21	Bright	29.500	136	23Tau Sco	2.8220	30000.	59	27813	Yes
34	GOM_TRA_1PNPDE20070626_024822_000000372059_00204_27813_3744.N1	26-JUN-2007 02:48:22	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	27813	No
35	GOM_TRA_1PNPDE20070626_025006_000000362059_00204_27813_3745.N1	26-JUN-2007 02:50:06	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	27813	No
36	GOM_TRA_1PNPDE20070626_025213_000000372059_00204_27813_3746.N1	26-JUN-2007 02:52:13	Bright	36.500	120	1Del Oph	2.7340	3200.0	73	27813	No
37	GOM_TRA_1PNPDE20070626_025906_000000372059_00204_27813_3747.N1	26-JUN-2007 02:59:06	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	27813	No
38	GOM_TRA_1PNPDE20070626_030156_000000372059_00204_27813_3748.N1	26-JUN-2007 03:01:56	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	27813	No
39	GOM_TRA_1PNPDE20070626_030814_000000372059_00204_27813_3749.N1	26-JUN-2007 03:08:14	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	27813	No
40	GOM_TRA_1PNPDE20070626_031022_000000362059_00204_27813_3750.N1	26-JUN-2007 03:10:22	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	27813	No
41	GOM_TRA_1PNPDE20070626_031412_000000332059_00204_27813_3751.N1	26-JUN-2007 03:14:12	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	27813	No
42	GOM_TRA_1PNPDE20070626_031836_000000352059_00204_27813_3752.N1	26-JUN-2007 03:18:36	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	27813	No
43	GOM_TRA_1PNPDE20070626_032855_000000532059_00204_27813_3848.N1	26-JUN-2007 03:28:55	Bright	52.500	160	23Gam Per	2.9300	4700.0	105	27813	No
44	GOM_TRA_1PNPDE20070626_033240_000000372059_00204_27813_3849.N1	26-JUN-2007 03:32:40	Bright	36.500	79	26Bet Per	2.3100	13100.	73	27813	No
45	GOM_TRA_1PNPDE20070626_034338_000000432059_00204_27813_3850.N1	26-JUN-2007 03:43:38	Dark	42.500	94	92Alp Cet	2.5260	3100.0	85	27813	No
46	GOM_TRA_1PNPDE20070626_040147_000000422059_00205_27814_3851.N1	26-JUN-2007 04:01:47	Dark	41.500	9	Alp Eri	0.45300	24000.	83	27814	No
47	GOM_TRA_1PNPDE20070626_040904_000000482059_00205_27814_3852.N1	26-JUN-2007 04:09:04	Straylight	48.000	148	Alp Tuc	2.8780	4100.0	96	27814	No
48	GOM_TRA_1PNPDE20070626_041333_000000402059_00205_27814_3853.N1	26-JUN-2007 04:13:33	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	27814	No
49	GOM_TRA_1PNPDE20070626_041748_000000372059_00205_27814_3854.N1	26-JUN-2007 04:17:48	Straylight	37.000	141	Bet Ara	2.8400	4600.0	74	27814	No
50	GOM_TRA_1PNPDE20070626_041913_000000372059_00205_27814_3855.N1	26-JUN-2007 04:19:13	Straylight	36.500	147	Alp Ara	2.8770	26000.	73	27814	No

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



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

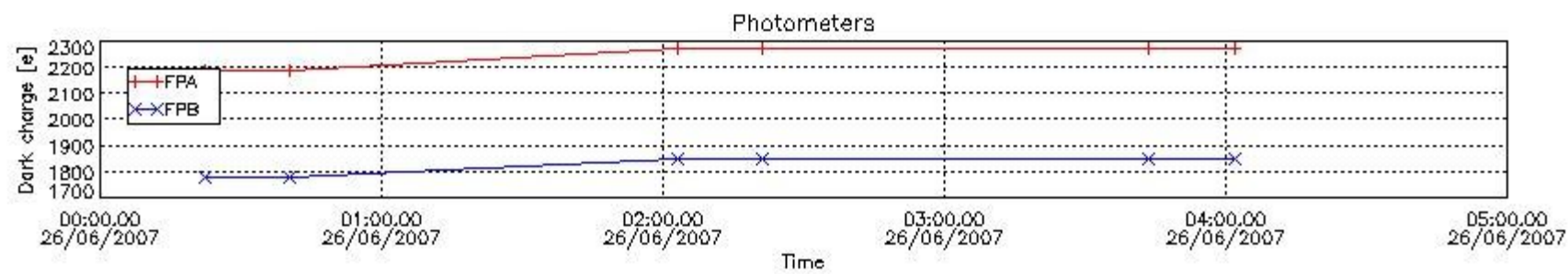
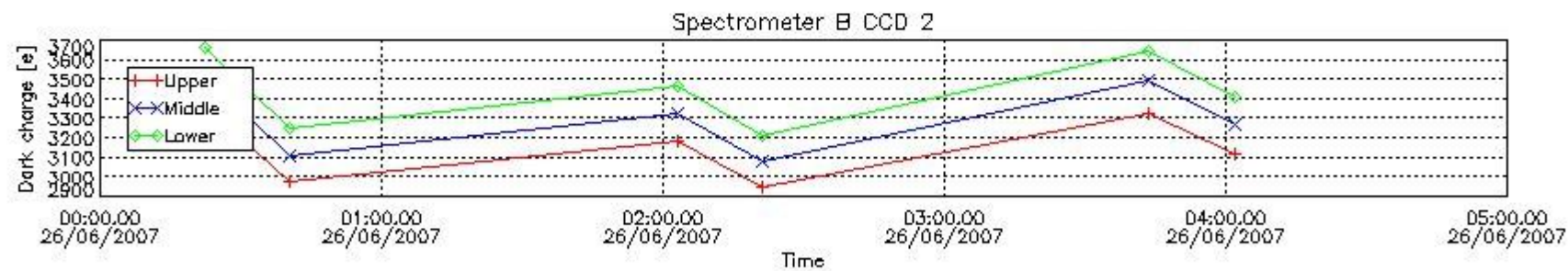
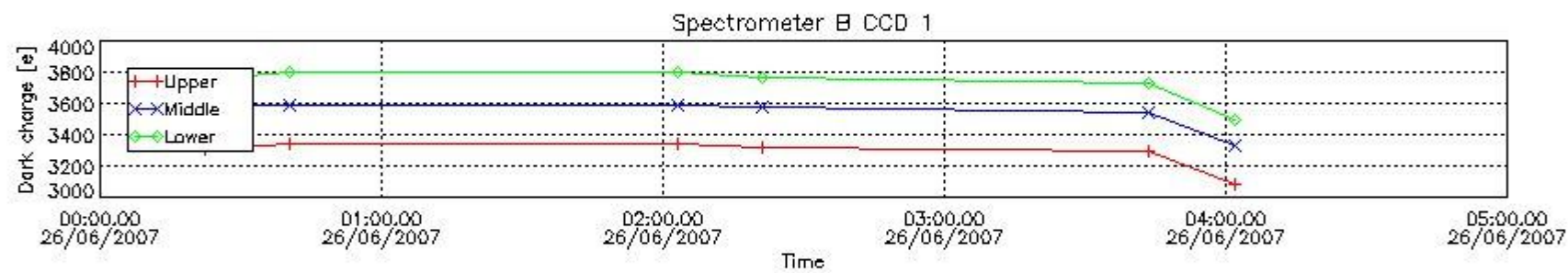
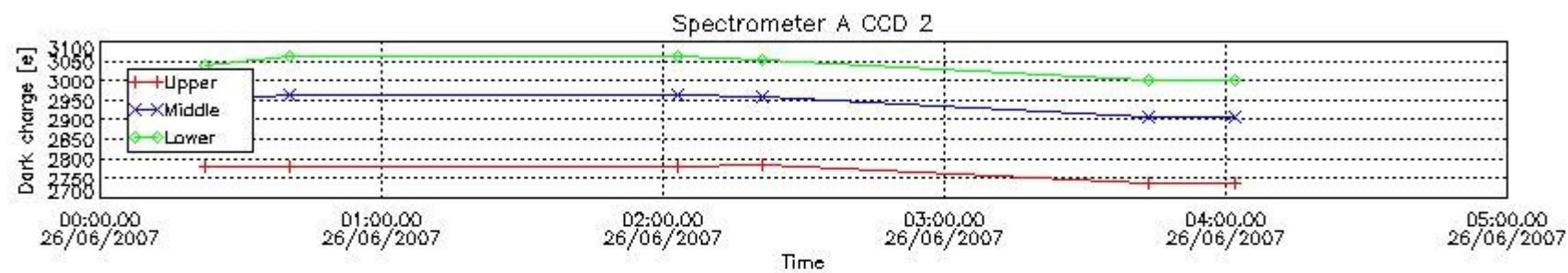
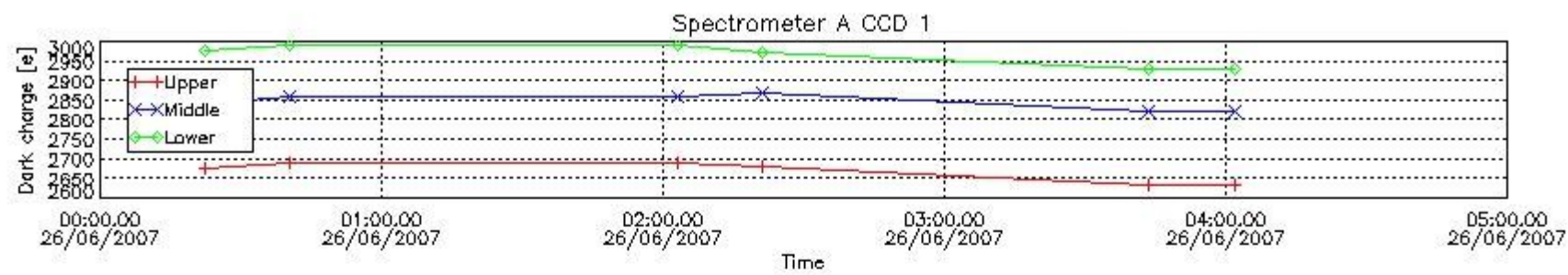
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

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

##### 4.1 All products used the DSA observation for the DC computation

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





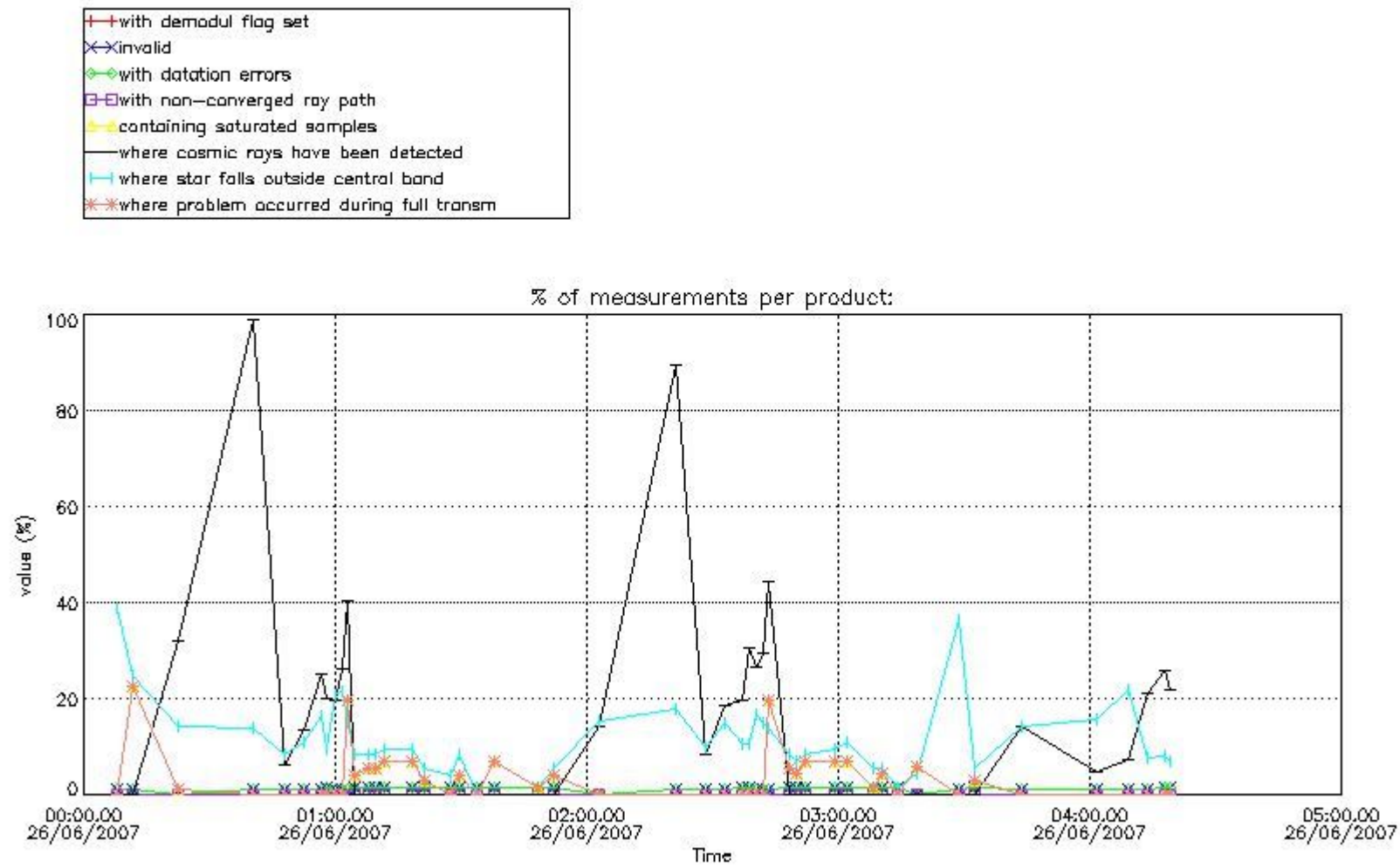
## 5. Demodulation flag and quality information monitoring

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

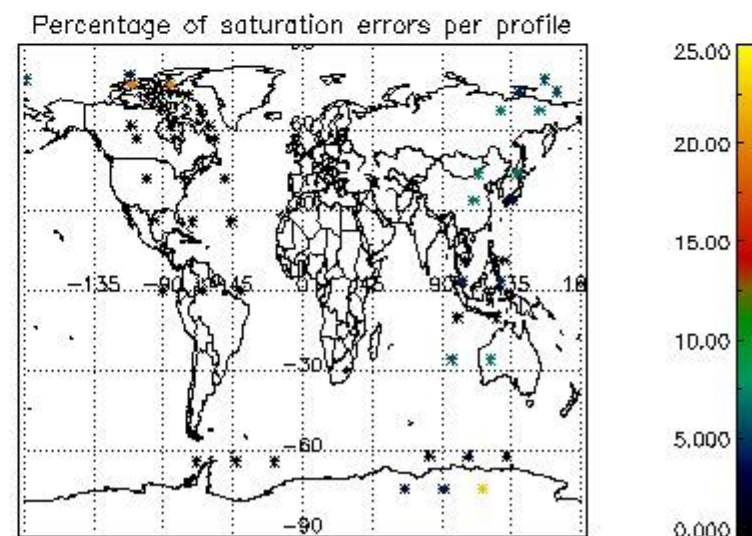
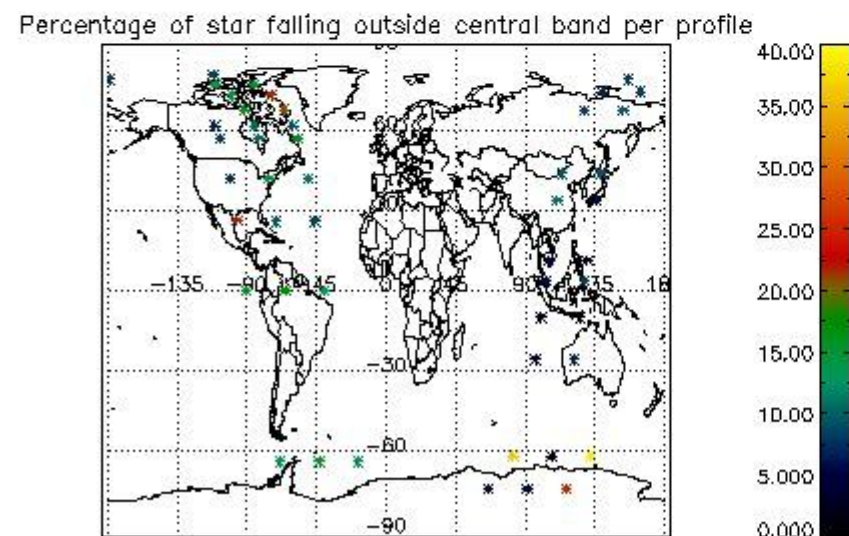
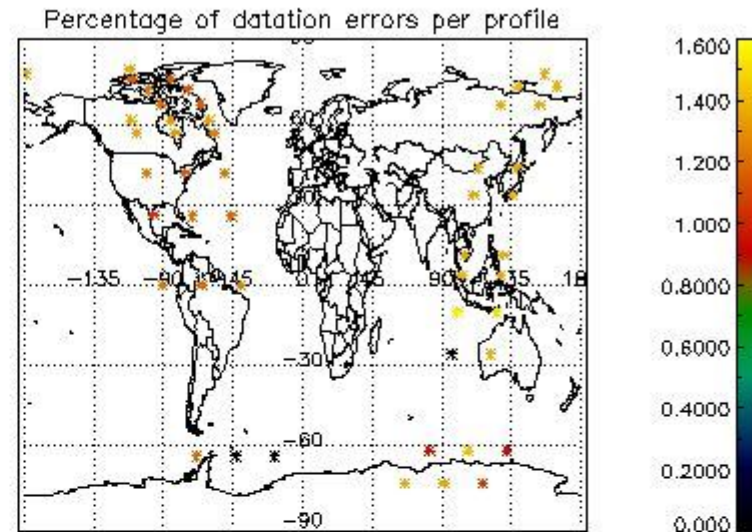
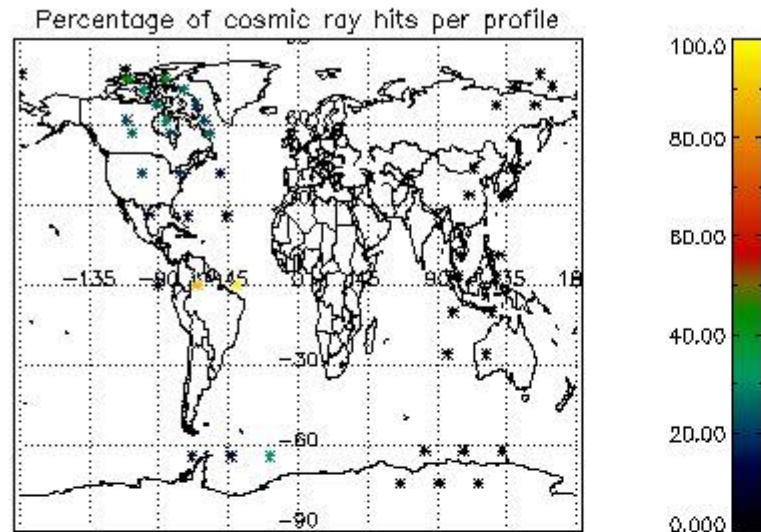
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.3265 %
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)

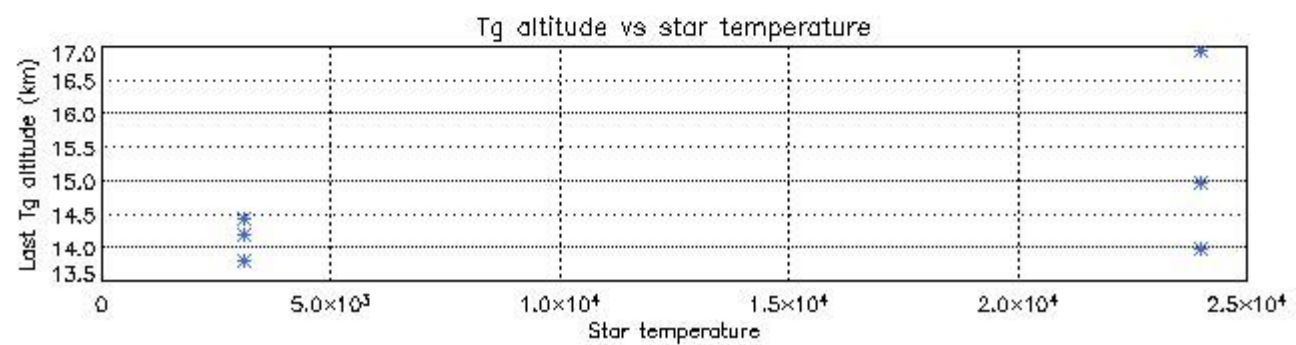
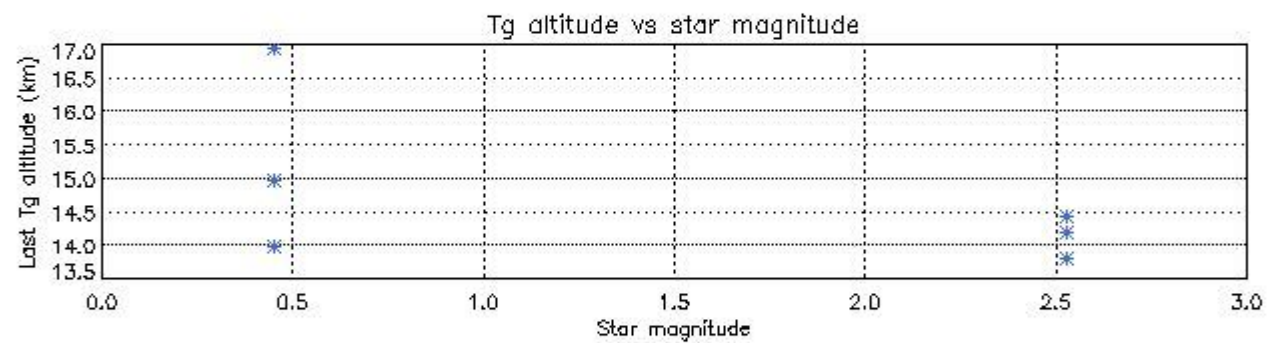
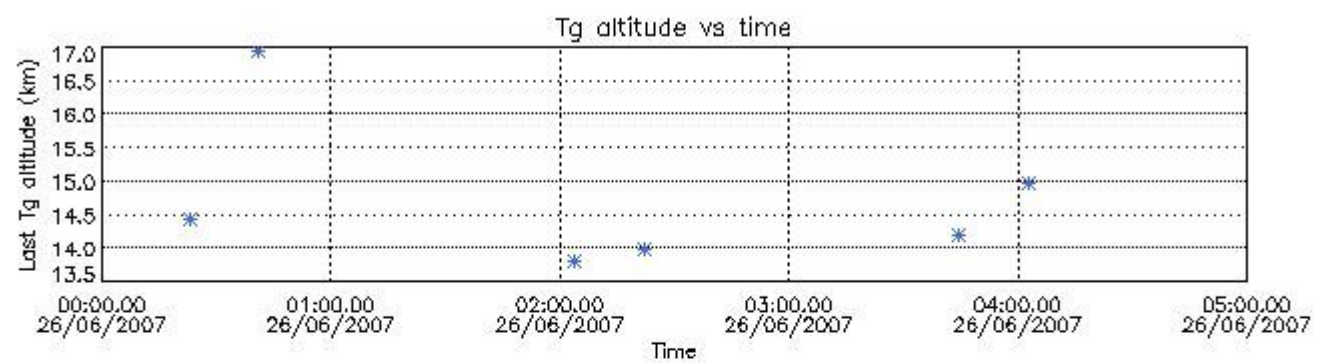
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.722	19.412	NaN
St. deviation:	1.1601	5.5193	NaN
Maximum:	16.941	28.300	NaN
Minimum:	13.813	4.0055	NaN
Number of data:	6.0000	27.000	NaN

### 6.2 Plot for DARK limb products



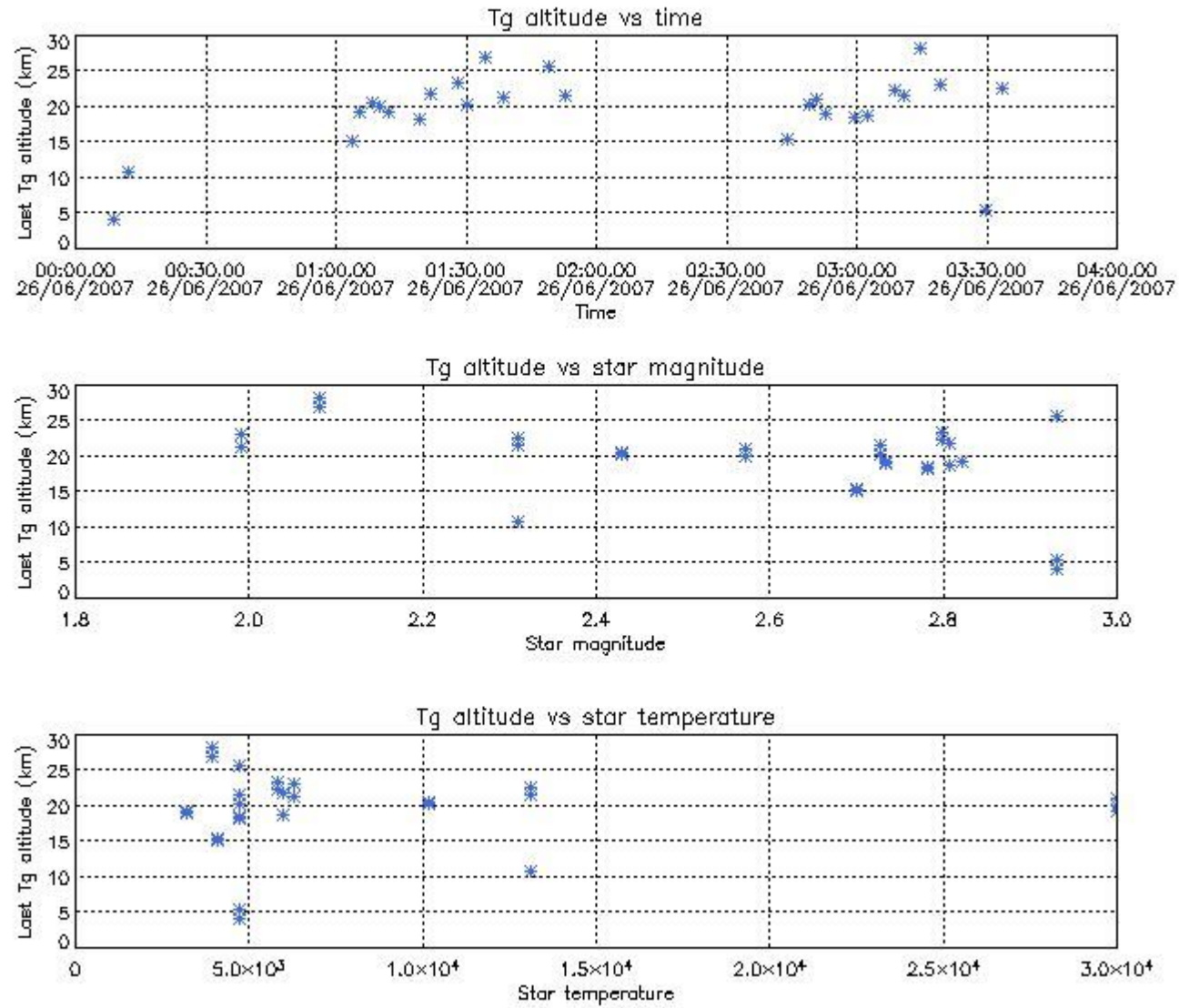
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

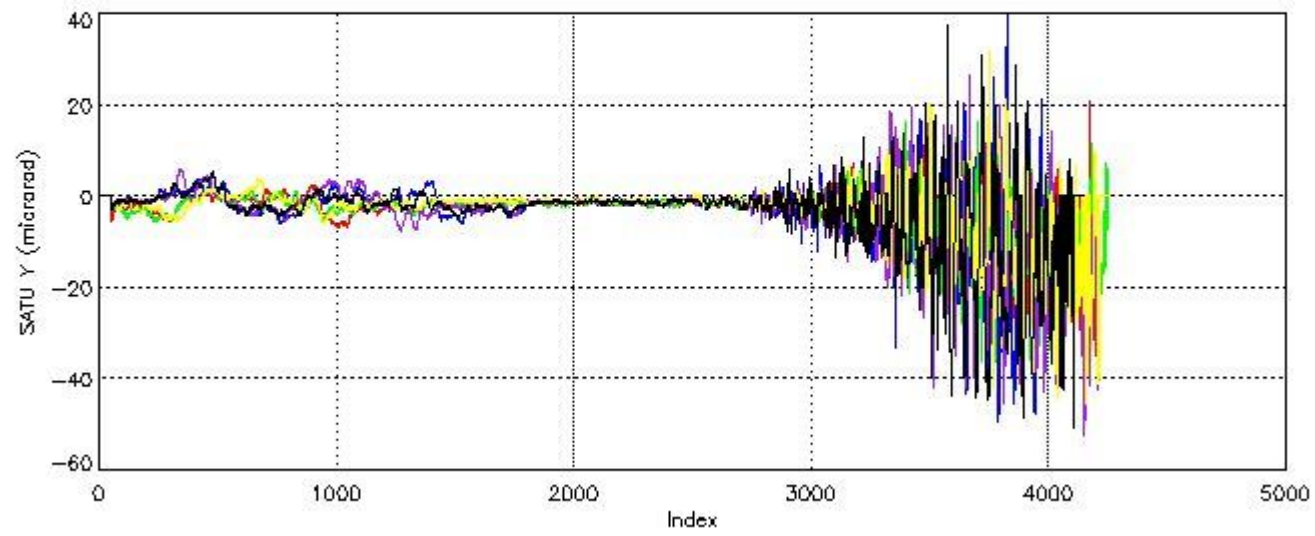
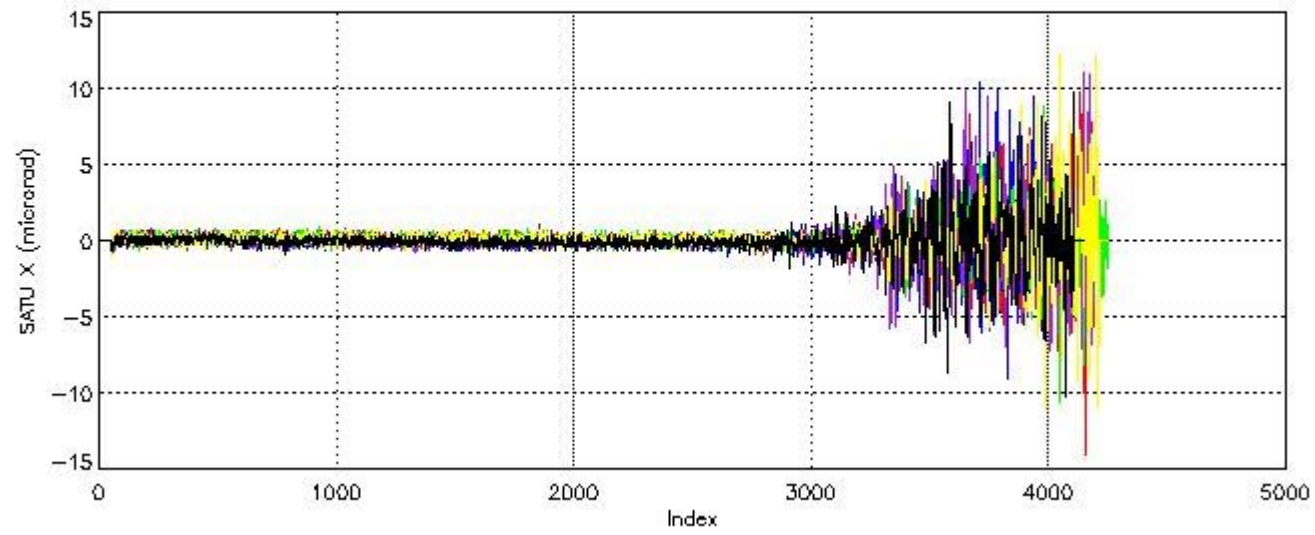


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.061913	-1.1888	0.078426	-1.1116
St. deviation:	0.22307	1.9996	0.73615	2.4144
Maximum:	0.80000	5.8000	5.7000	8.3000
Minimum:	-1.1000	-6.2000	-5.0000	-14.900

Number of data:	5450.0	5450.0	22800.	22800.
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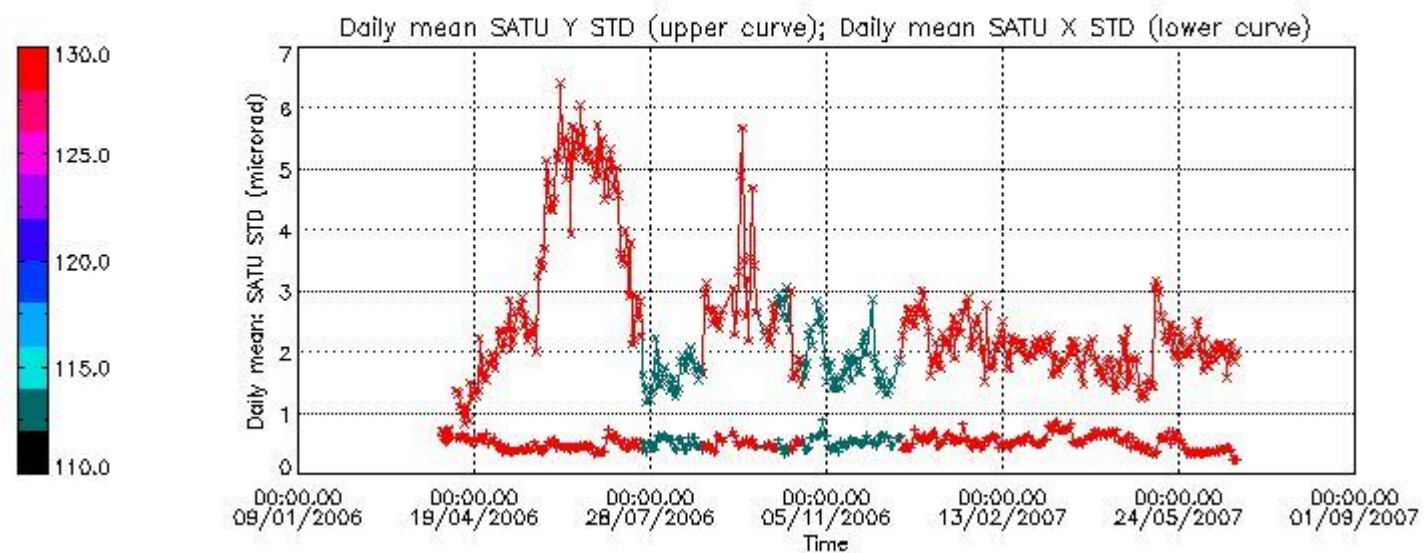
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

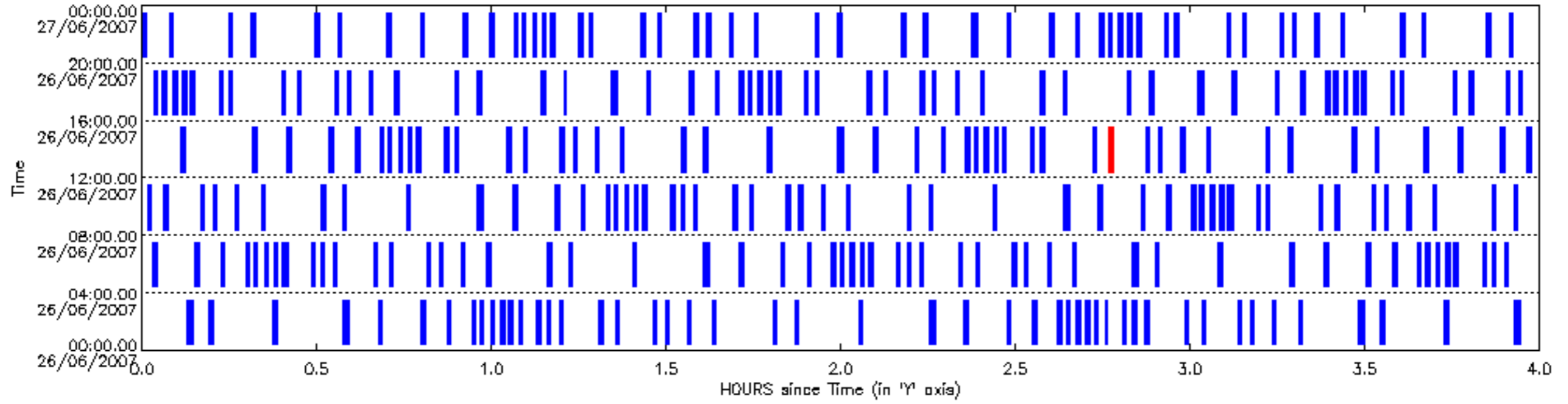
Lower curve: STD of SATU X axis



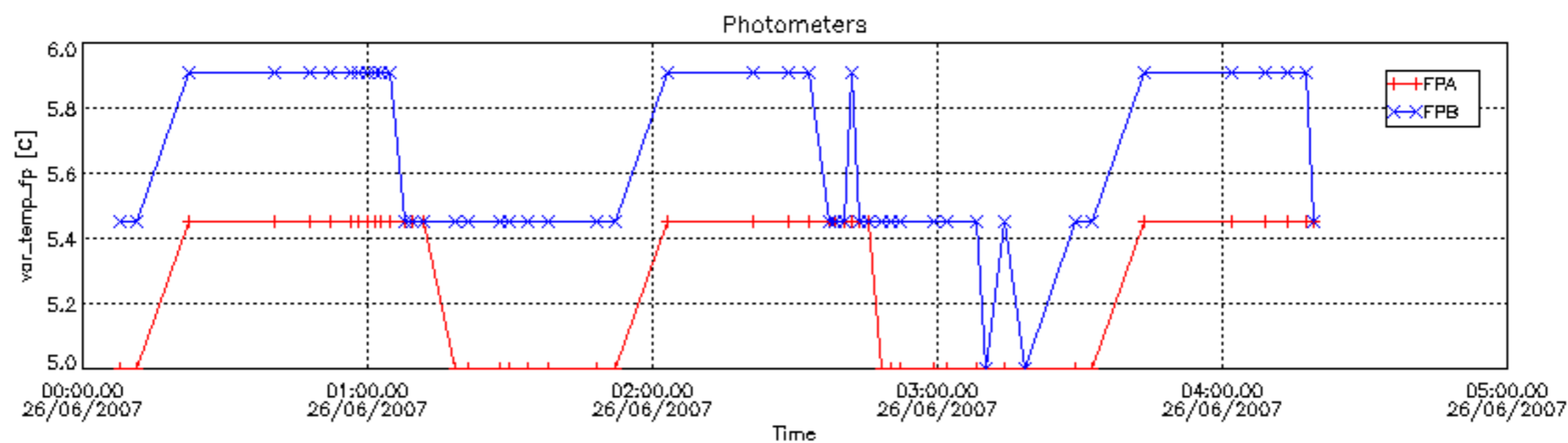
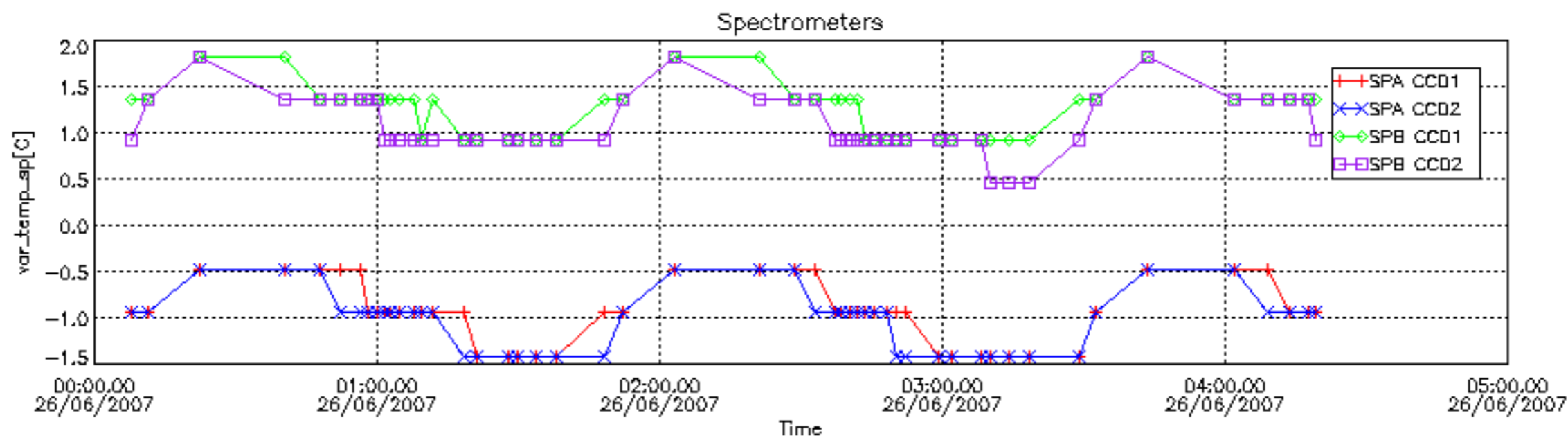
### 8. Auxiliary Data Files used for the production reported in section 2.4

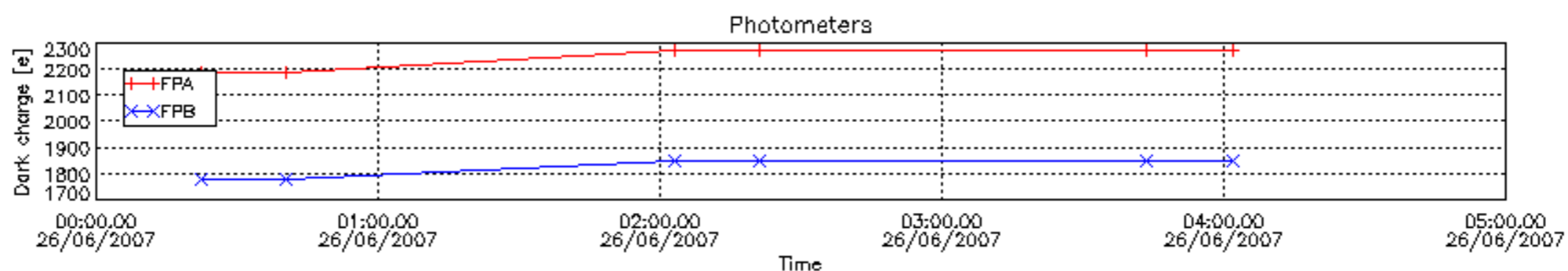
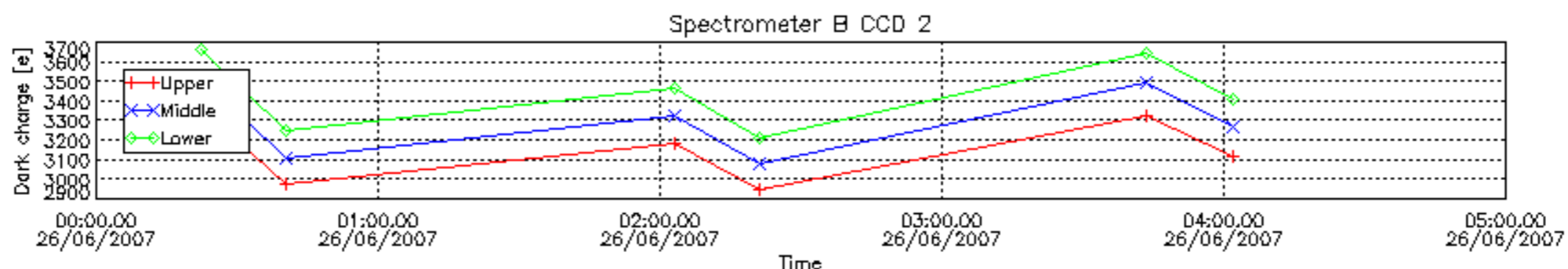
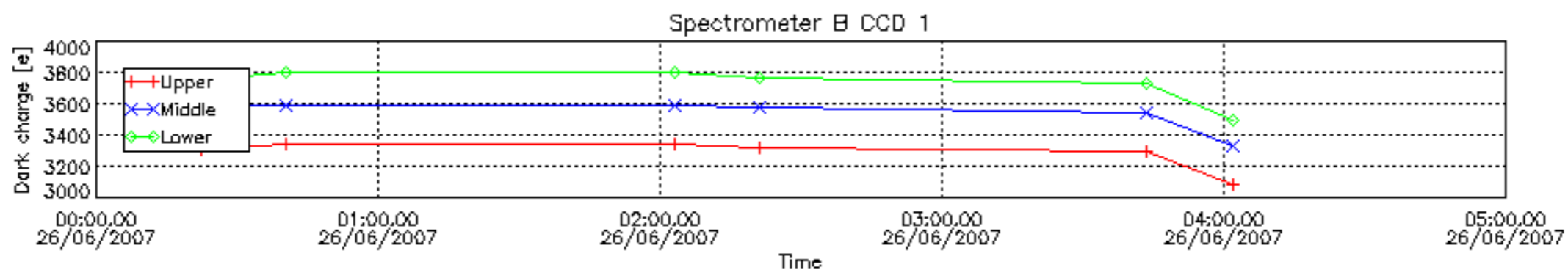
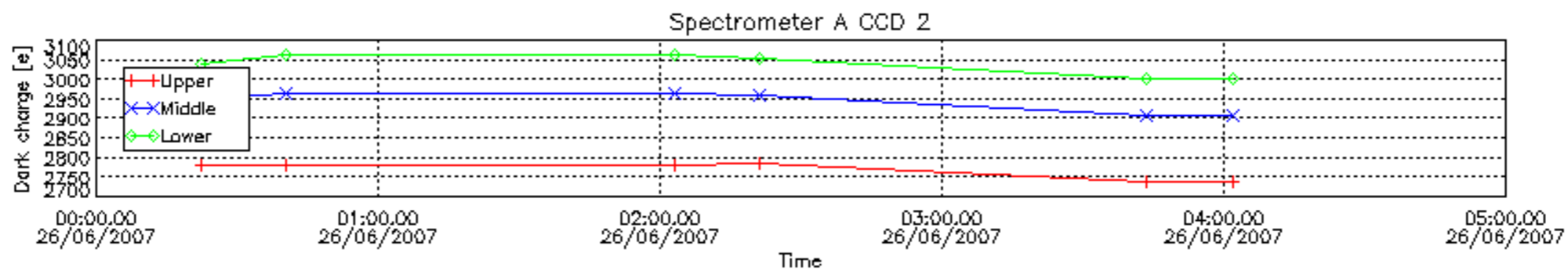
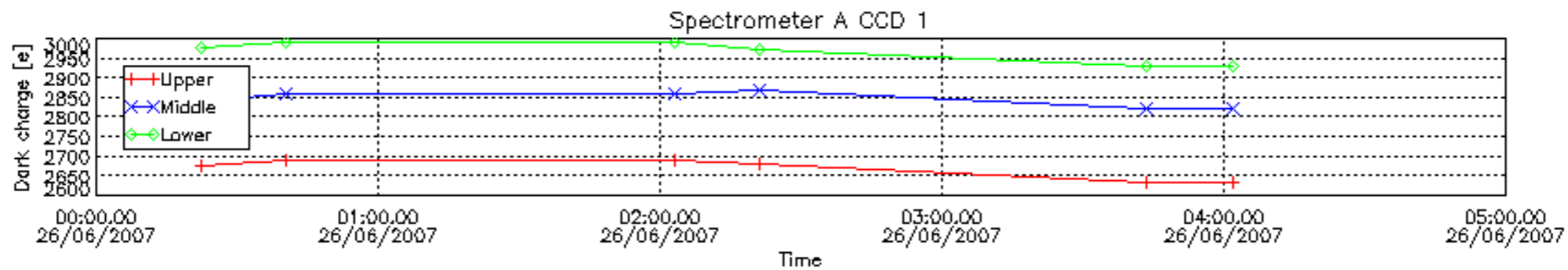
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

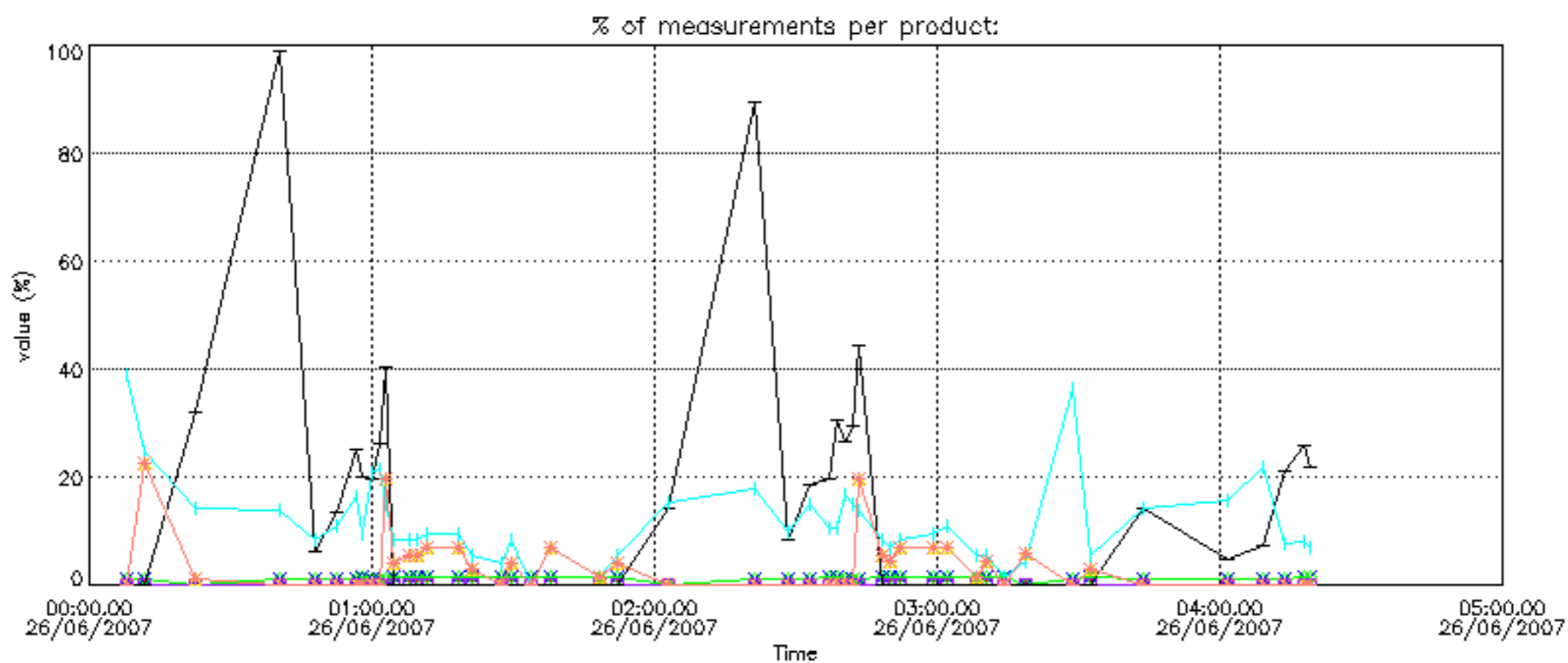
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	26-JUN-2007 00:07:44
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070618_075311_20070617_000000_20100101_000000	1	26-JUN-2007 00:07:44
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	26-JUN-2007 00:07:44
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-JUN-2007 00:07:44
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	26-JUN-2007 00:07:44
ECMWF_FILE	AUX_ECF_AXNECM20070625_061110_20070625_210000_20070626_090000	1	26-JUN-2007 00:07:44
ECMWF_FILE	AUX_ECF_AXNECM20070625_182512_20070626_030000_20070626_150000	43	26-JUN-2007 03:28:55
OPTIONAL_ECMWF_FILE	MISSING	1	26-JUN-2007 00:07:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070625_210012_000060572059_00200_27809_3651.N1	1	26-JUN-2007 00:07:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070625_224627_000057382059_00201_27810_3652.N1	4	26-JUN-2007 00:40:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070626_002724_000054192059_00202_27811_3653.N1	25	26-JUN-2007 02:21:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070626_020303_000041442059_00203_27812_3654.N1	43	26-JUN-2007 03:28:55



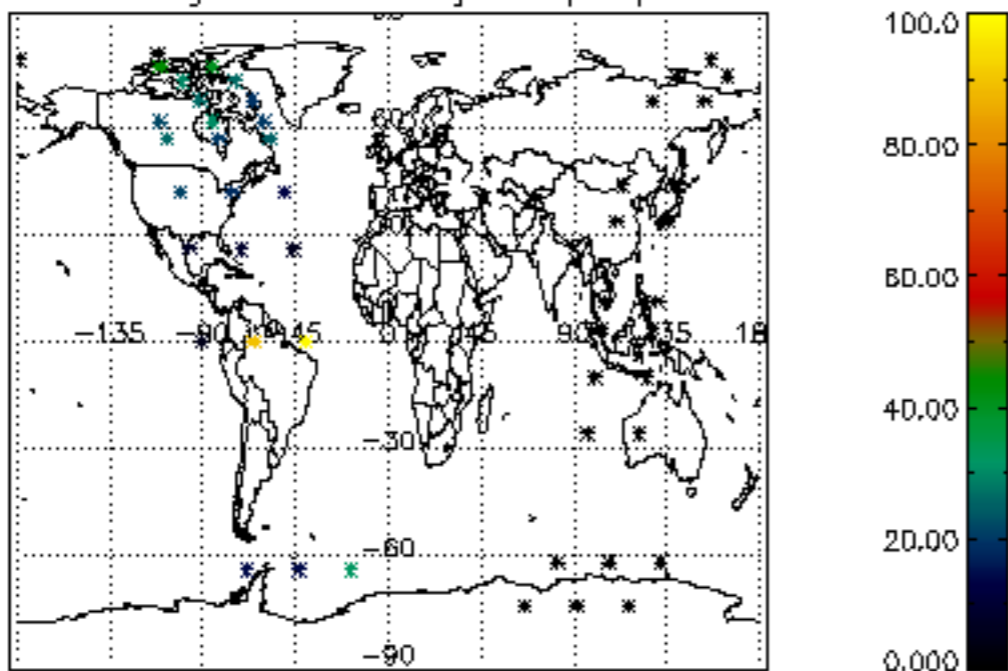




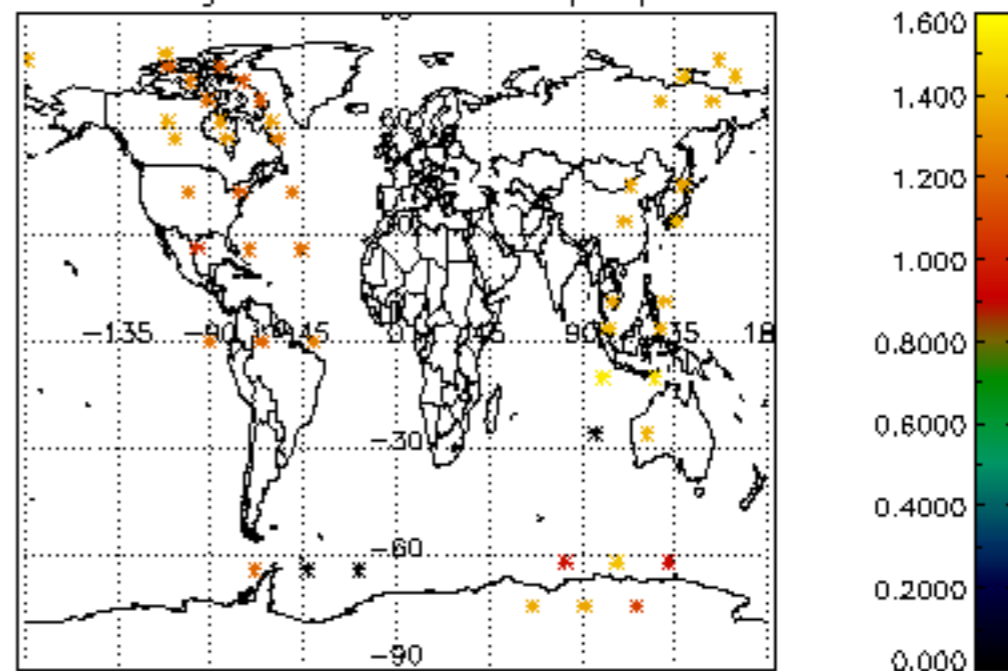




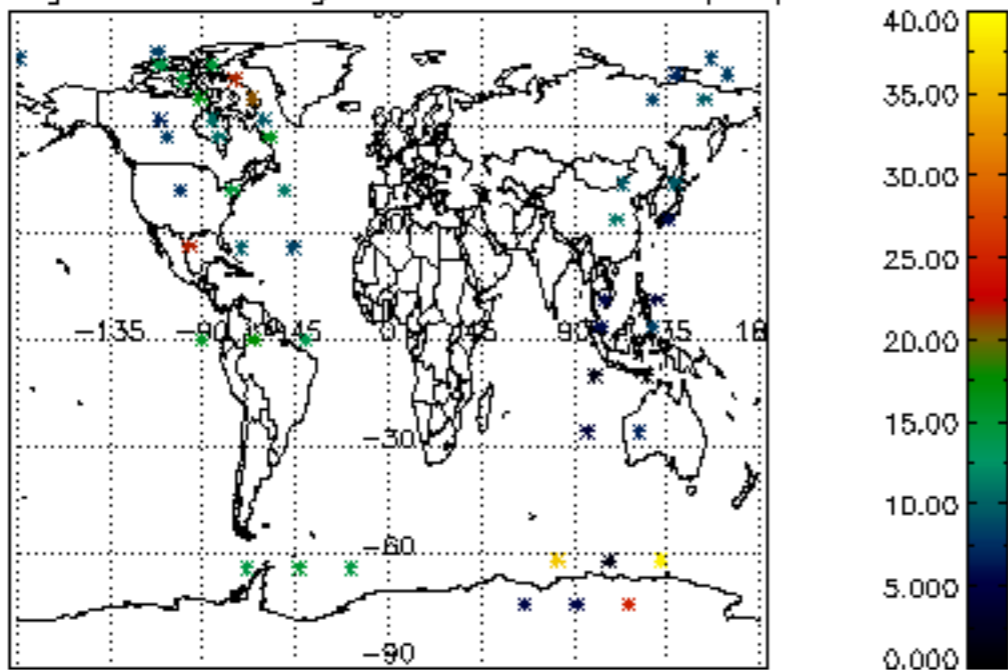
Percentage of cosmic ray hits per profile



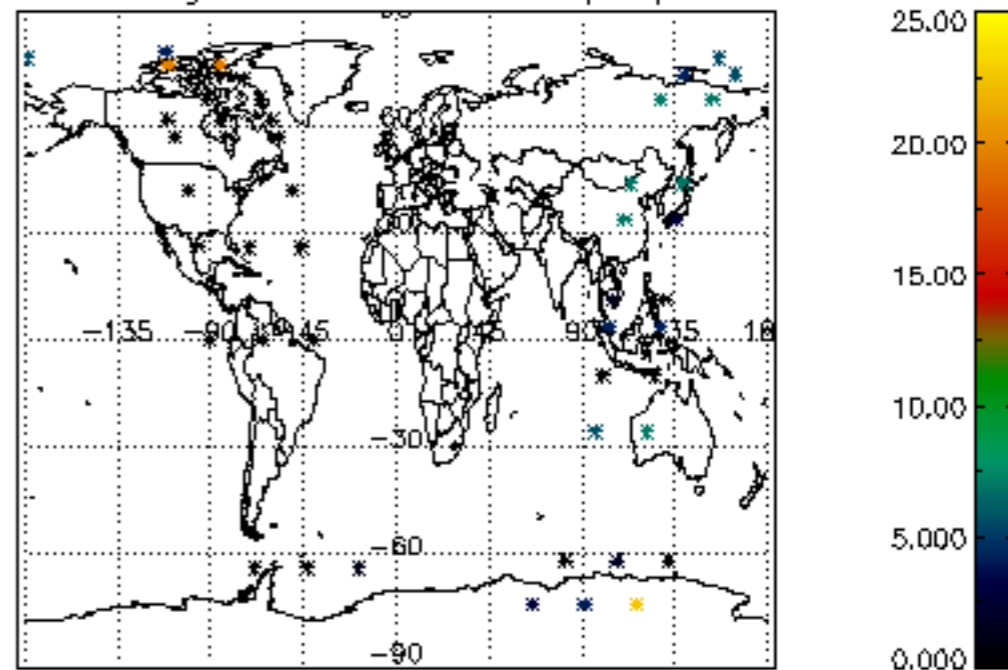
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

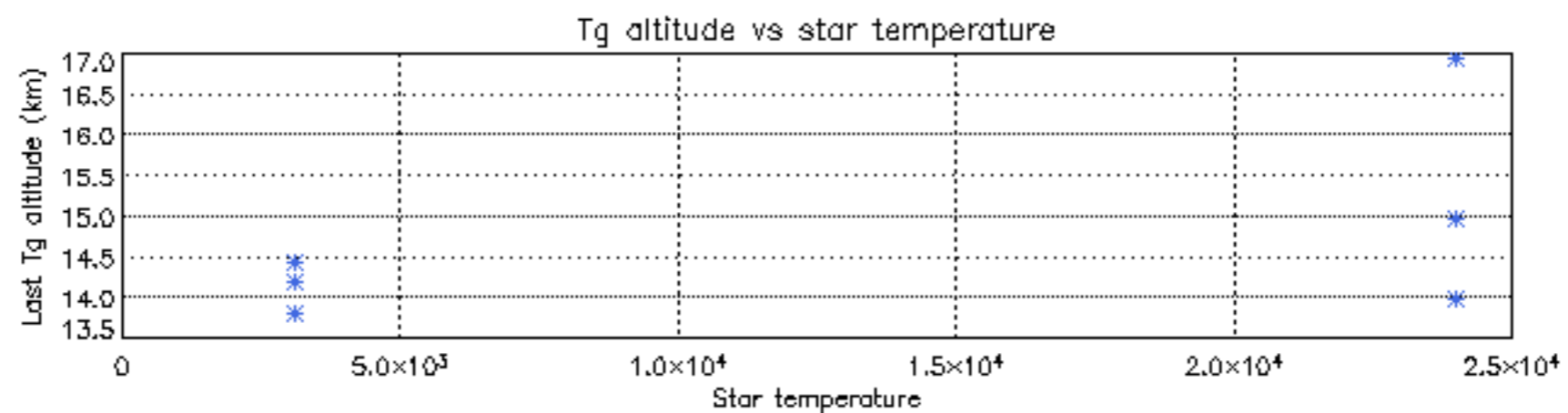
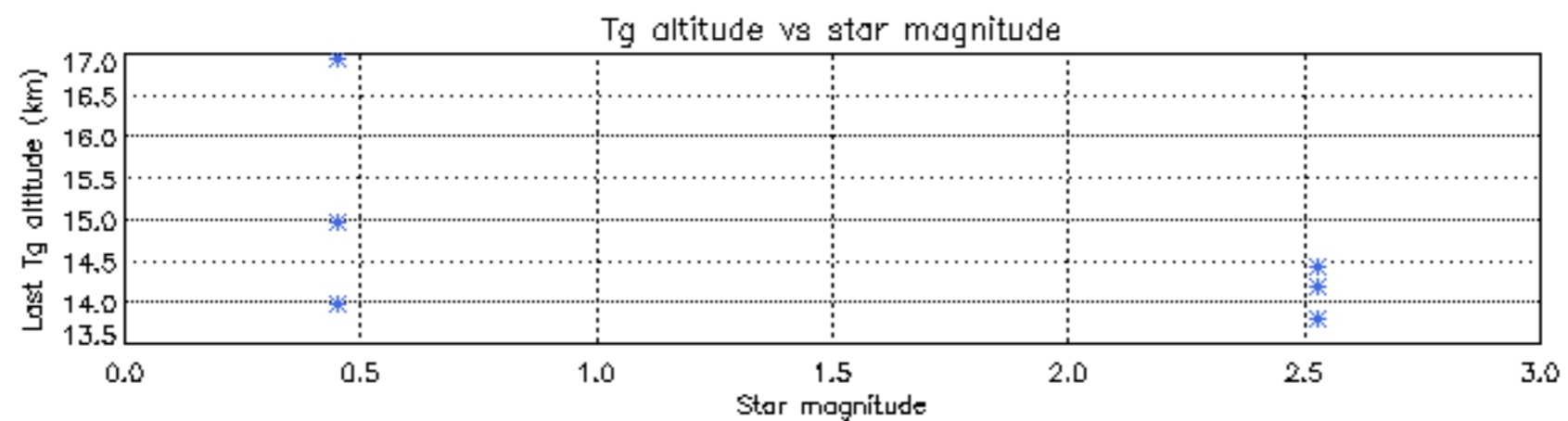
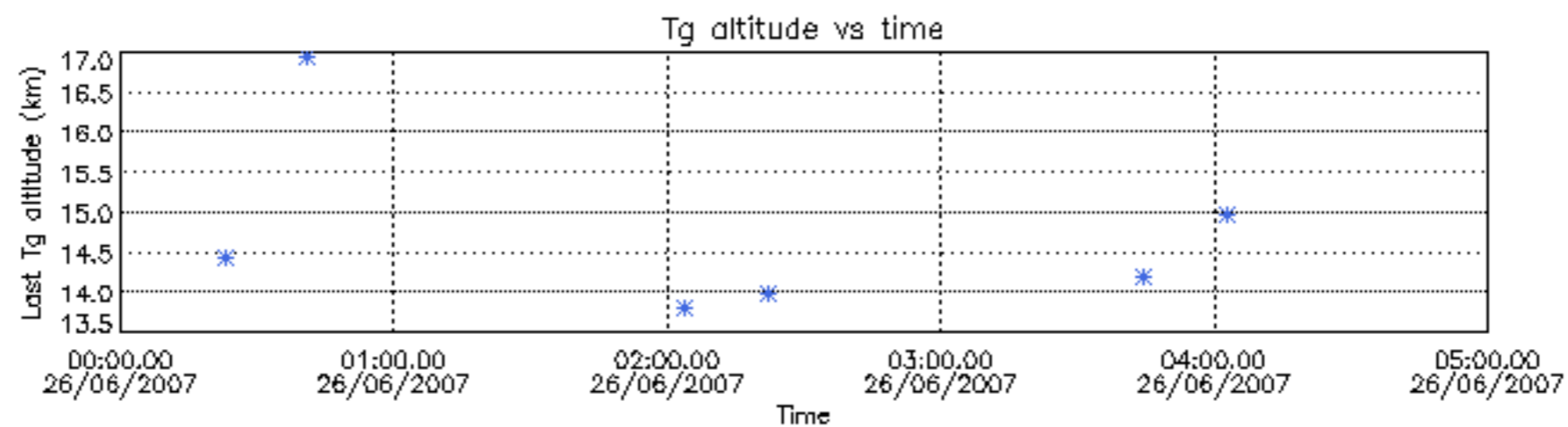


Percentage of saturation errors per profile

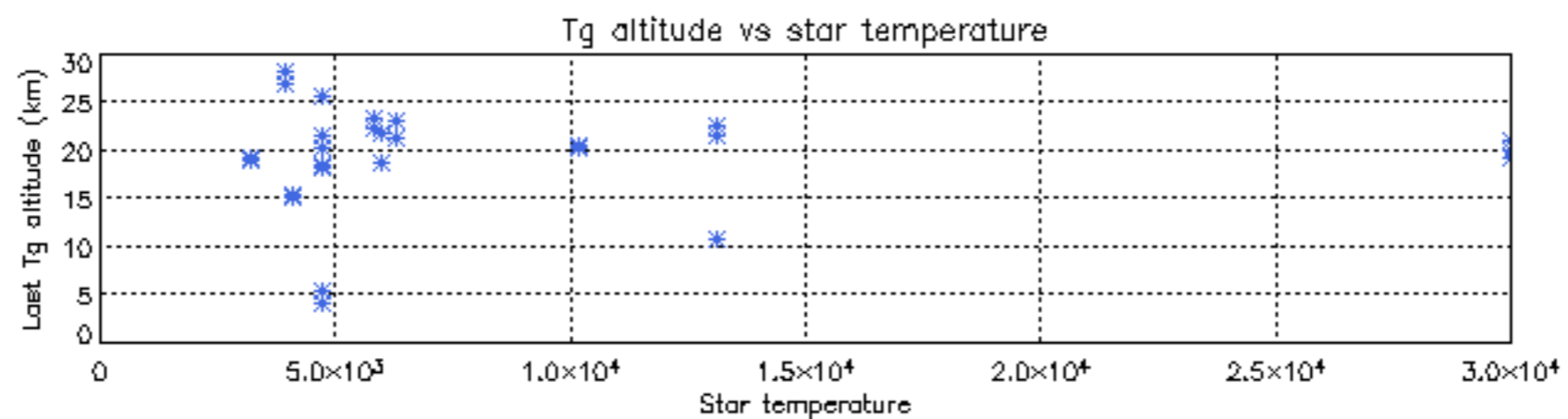
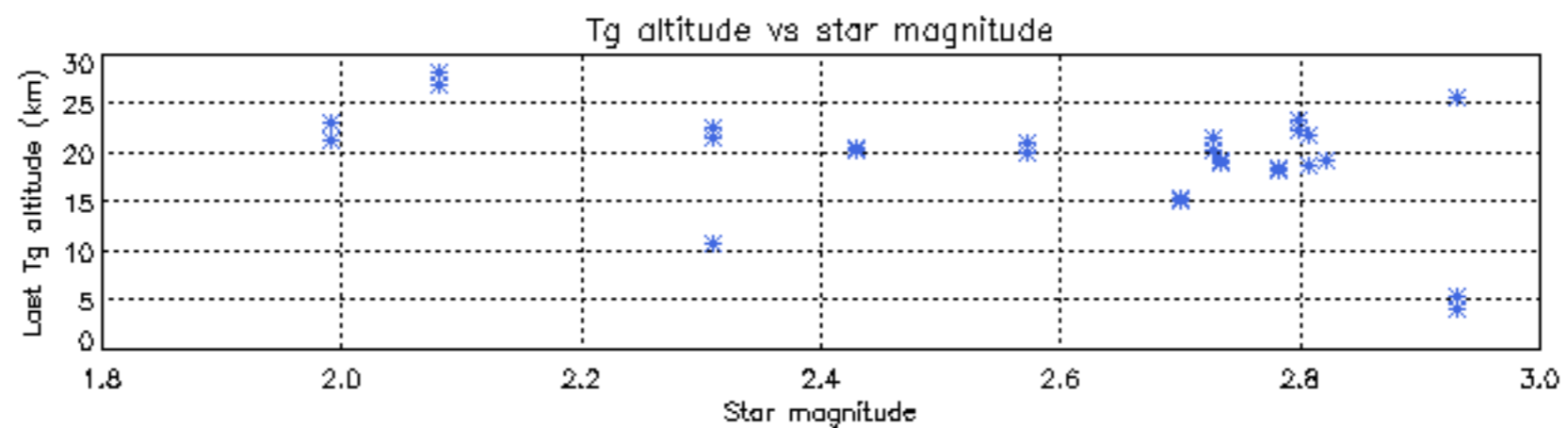
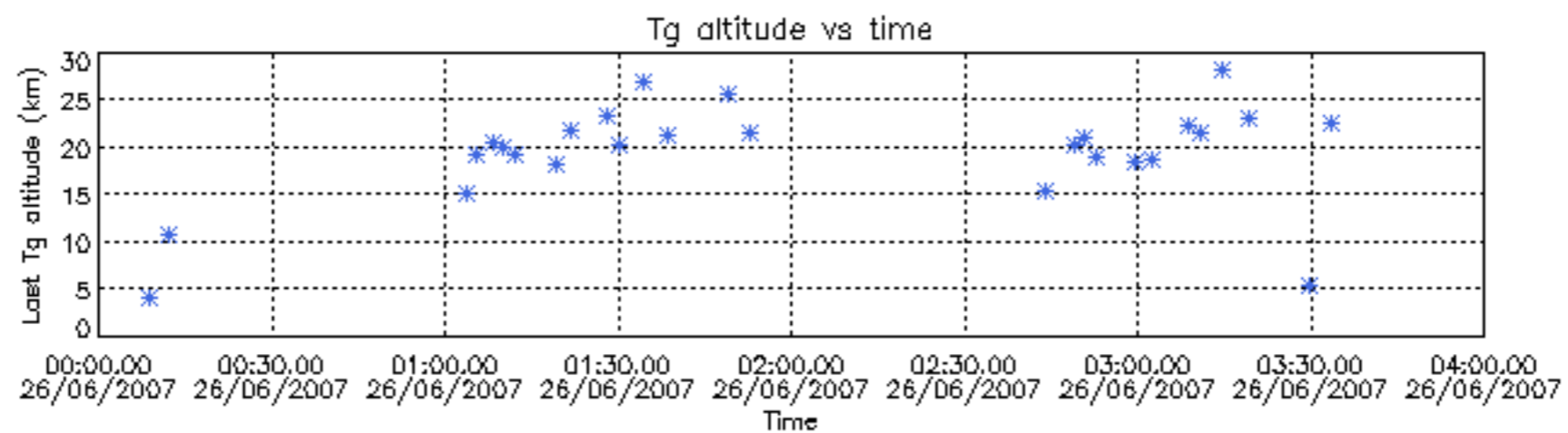


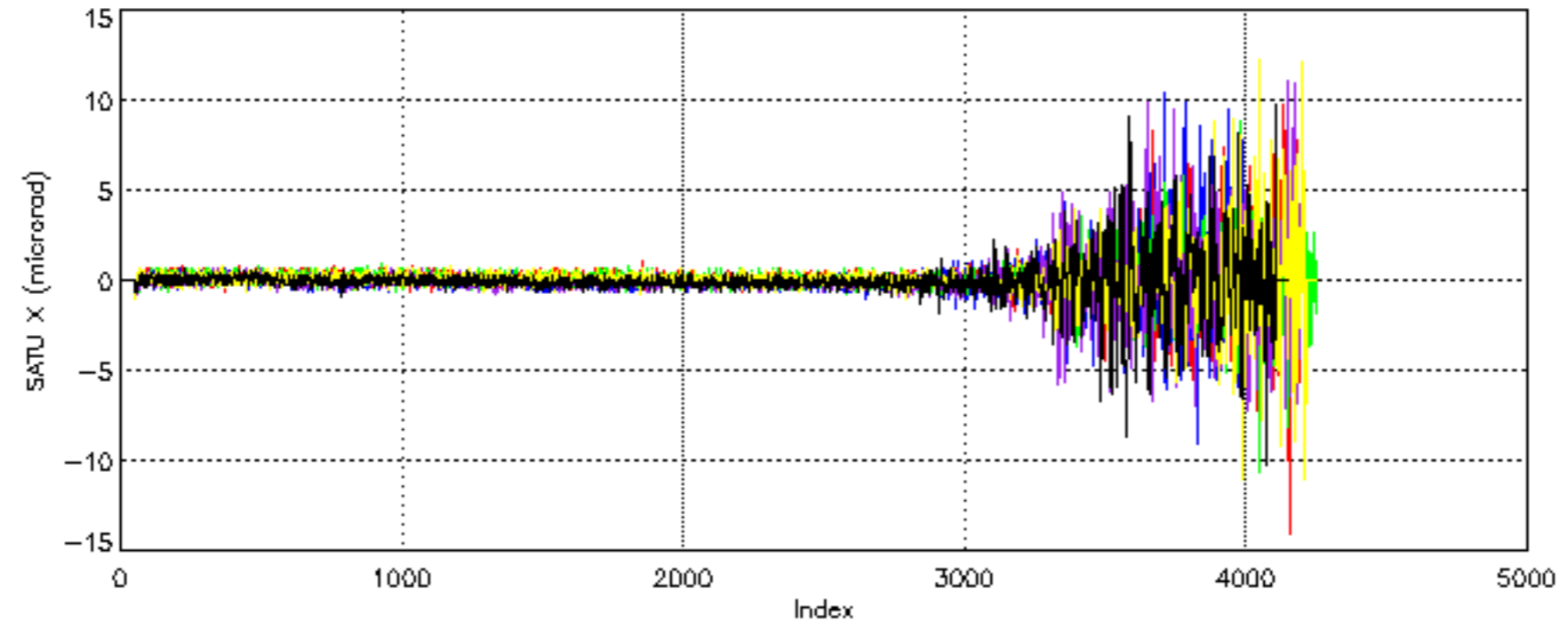


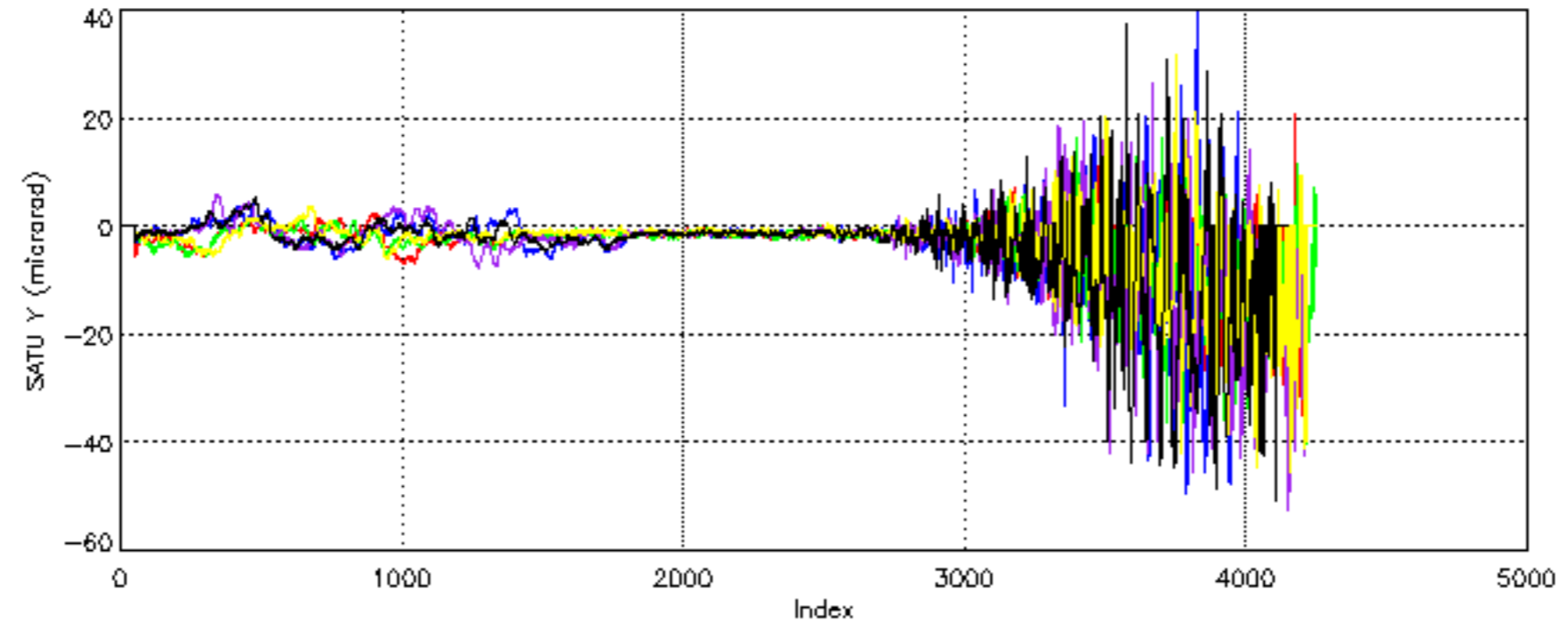
Tangent altitude at which the star is lost



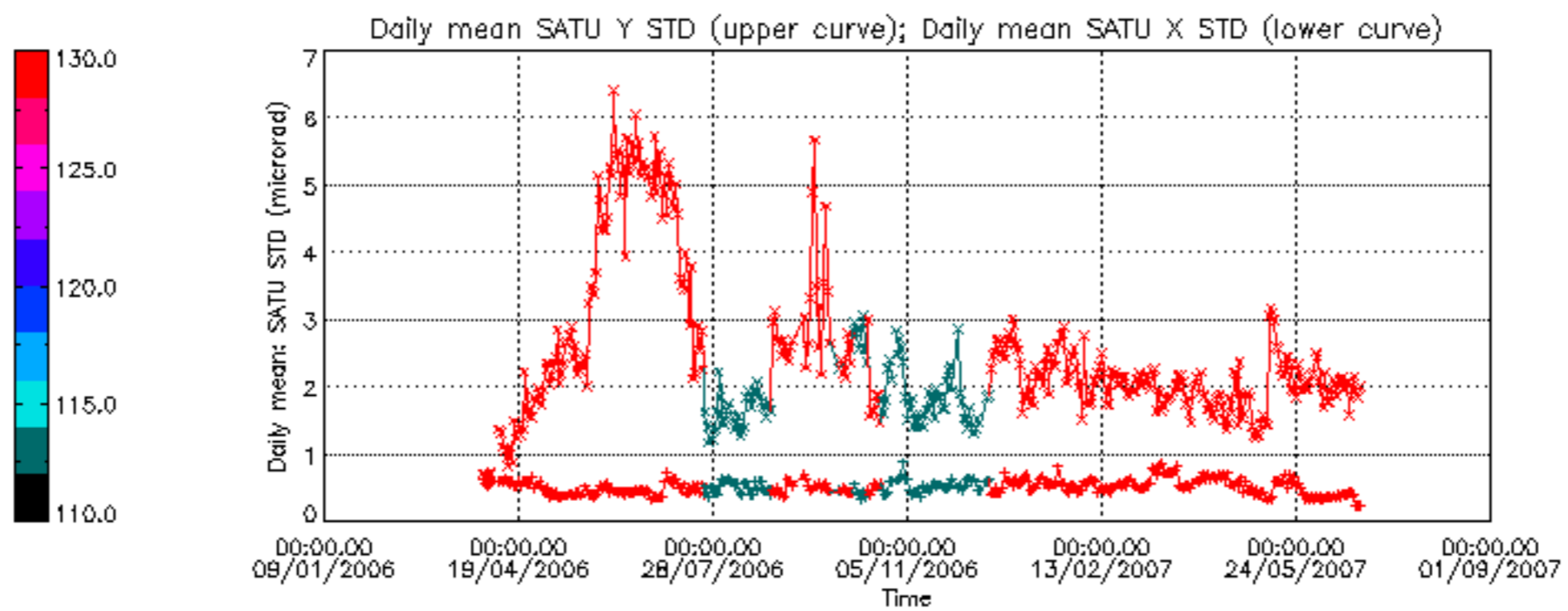
Tangent altitude at which the star is lost











/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

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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  
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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  
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 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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1; -2106.3; 01-JUN-2007 04:52:53; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;27456  
 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  
 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  
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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  
 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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 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  
 6; 492.7; 01-JUN-2007 22:22:11; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27467  
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4; 2369.6; 01-JUN-2007 07:48:05; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;27458
5; 3005.6; 01-JUN-2007 07:58:41; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;27458
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5; 3005.3; 01-JUN-2007 09:39:16; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27459
6; 3166.1; 01-JUN-2007 09:41:57; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27459
7; 3446.8; 01-JUN-2007 09:46:38; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27459
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 16; 6526.1; 01-JUN-2007 15:39:45; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27462  
 17; 6897.2; 01-JUN-2007 15:45:56; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;27462  
 18; 6972.3; 01-JUN-2007 15:47:11; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27462  
 19; 7073.6; 01-JUN-2007 15:48:52; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27462  
 20; 7181.4; 01-JUN-2007 15:50:40; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;27462  
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20070601\_155226\_000058542058\_00355\_27463\_7963.N1

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 3; 1544.6; 01-JUN-2007 15:57:19; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27463  
 4; 1703.0; 01-JUN-2007 15:59:58; Bright; 40.0; 98; 13Zet Oph ; 2.57; 30000;occ; 80; 0;27463  
 5; 1834.1; 01-JUN-2007 16:02:09; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27463  
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 10; 3446.8; 01-JUN-2007 16:29:01; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27463  
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 12; 4394.8; 01-JUN-2007 16:44:49; Bright; 42.5; 53; 43Bet And ; 2.05; 3300;occ; 85; 0;27463  
 13; 5394.2; 01-JUN-2007 17:01:29; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;27463  
 14; 5652.9; 01-JUN-2007 17:05:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27463  
 15; 5796.1; 01-JUN-2007 17:08:11; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;27463  
 16; 6116.4; 01-JUN-2007 17:13:31; Dark ; 59.5; 63; Bet Gru ; 2.15; 2800;occ; 119; 0;27463  
 17; 6229.1; 01-JUN-2007 17:15:24; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;27463  
 18; 6526.9; 01-JUN-2007 17:20:22; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27463  
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 7; 1834.1; 01-JUN-2007 17:42:45; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27464  
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 14; 4394.9; 01-JUN-2007 18:25:26; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;27464  
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13; 3446.8; 01-JUN-2007 19:50:13; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27465
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16; 5395.4; 01-JUN-2007 20:22:42; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;27465
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4; 84.6; 02-JUN-2007 01:36:35; Dark ; 58.5; 63; Bet Gru ; 2.15; 2800;occ; 117; 0;27469
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6; 494.1; 02-JUN-2007 01:43:24; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;27469
7; 863.3; 02-JUN-2007 01:49:34; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27469
8; 938.7; 02-JUN-2007 01:50:49; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27469
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14; 1375.3; 02-JUN-2007 03:38:41; Dark ; 49.0; 136; 23Tau Sco ; 2.82; 30000;occ; 98; 0;27470
15; 1545.7; 02-JUN-2007 03:41:32; Bright; 37.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 74; 0;27470
16; 1703.1; 02-JUN-2007 03:44:09; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;27470
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6; 86.4; 02-JUN-2007 04:57:49; Dark ; 42.0; 63; Bet Gru ; 2.15; 2800;occ; 84; 0;27471
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9; 864.1; 02-JUN-2007 05:10:46; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;27471

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14; 1375.5; 02-JUN-2007 05:19:18; Dark ; 55.0; 136; 23Tau Sco ; 2.82; 30000;occ; 110; 0;27471
15; 1545.9; 02-JUN-2007 05:22:08; Bright; 36.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 73; 0;27471
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7; 200.6; 02-JUN-2007 06:40:19; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;27472
8; 496.3; 02-JUN-2007 06:45:14; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27472
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14; 6241.2; 02-JUN-2007 15:03:23; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;27476

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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20070605\_121108\_000059842058\_00410\_27518\_7996.N1

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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
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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
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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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 27; 7742.9; 07-JUN-2007 09:29:08; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0;27544

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 6; 3165.3; 07-JUN-2007 09:53:26; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27545  
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 16; 6307.4; 07-JUN-2007 10:45:48; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;27545  
 17; 6581.8; 07-JUN-2007 10:50:23; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27545  
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 22; 7310.9; 07-JUN-2007 11:02:32; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;27545  
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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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3; 1835.2; 07-JUN-2007 12:52:28; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;27547  
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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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9; 3446.8; 07-JUN-2007 13:19:20; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 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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5; 1835.3; 07-JUN-2007 14:33:04; Bright; 37.0; 120; 1Del Oph ; 2.73; 3200;occ; 74; 0;27548  
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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9; 2982.8; 07-JUN-2007 14:52:11; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;27548  
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23; 7005.8; 07-JUN-2007 15:59:14; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;27548
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 4; 1709.4; 09-JUN-2007 16:48:56; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;27578  
 5; 1836.7; 09-JUN-2007 16:51:03; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;27578  
 6; 2017.3; 09-JUN-2007 16:54:04; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;27578  
 7; 2290.1; 09-JUN-2007 16:58:37; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;27578  
 8; 2481.8; 09-JUN-2007 17:01:48; Bright; 39.5; 133; 40Zet Her ; 2.81; 6000;occ; 79; 0;27578  
 9; 2976.4; 09-JUN-2007 17:10:03; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;27578  
 10; 3165.7; 09-JUN-2007 17:13:12; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27578  
 11; 3446.7; 09-JUN-2007 17:17:53; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27578  
 12; 3914.5; 09-JUN-2007 17:25:41; Bright; 57.0; 76; 27Gam Cas ; 2.30; 30000;occ; 114; 0;27578  
 13; 4265.6; 09-JUN-2007 17:31:32; Bright; 35.5; 73; 57Gam1And ; 2.26; 13100;occ; 71; 0;27578  
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 16; 5476.3; 09-JUN-2007 17:51:43; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;27578  
 17; 5711.7; 09-JUN-2007 17:55:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27578  
 18; 5866.9; 09-JUN-2007 17:58:14; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;27578

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 4; 187.1; 10-JUN-2007 00:46:33; Dark ; 57.5; 63; Bet Gru ; 2.15; 2800;occ; 115; 0;27583  
 5; 307.6; 10-JUN-2007 00:48:34; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27583  
 6; 570.0; 10-JUN-2007 00:52:56; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27583  
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 16; 3913.4; 10-JUN-2007 01:48:40; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;27583  
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 5; 308.6; 10-JUN-2007 02:29:11; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;27584  
 6; 570.7; 10-JUN-2007 02:33:33; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27584  
 7; 1086.0; 10-JUN-2007 02:42:08; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;27584  
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 9; 1284.7; 10-JUN-2007 02:45:27; Dark ; 41.0; 75; 26Eps Sco ; 2.29; 4250;occ; 82; 0;27584  
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 12; 1836.9; 10-JUN-2007 02:54:39; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;27584  
 13; 2288.7; 10-JUN-2007 03:02:11; Bright; 40.0; 127; 27Bet Her ; 2.78; 4700;occ; 80; 0;27584  
 14; 2479.9; 10-JUN-2007 03:05:22; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;27584  
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 12; 1191.1; 10-JUN-2007 04:24:29; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;27585  
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 17; 2288.7; 10-JUN-2007 04:42:47; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;27585  
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 19; 2906.5; 10-JUN-2007 04:53:05; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;27585

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4; 2287.6; 10-JUN-2007 14:46:21; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;27591  
5; 2478.0; 10-JUN-2007 14:49:32; Bright; 39.5; 133; 40Zet Her ; 2.81; 6000;occ; 79; 0;27591  
6; 2903.6; 10-JUN-2007 14:56:37; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;27591  
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20070626\_125158\_000057872059\_00210\_27819\_8181.N1

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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20070626\_143235\_000056972059\_00211\_27820\_8182.N1

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4; 713.0; 27-JUN-2007 00:20:50; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;27826
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 21; 7201.3; 29-JUN-2007 12:49:56; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;27861  
 22; 7301.3; 29-JUN-2007 12:51:36; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;27861  
 23; 7385.1; 29-JUN-2007 12:53:00; Dark ; 55.5; 116; 19Del Sgr ; 2.70; 4100;occ; 111; 0;27861

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1; 1638.9; 29-JUN-2007 12:57:50; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;27862  
 2; 1743.6; 29-JUN-2007 12:59:34; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;27862  
 3; 1983.0; 29-JUN-2007 13:03:34; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27862  
 4; 2123.7; 29-JUN-2007 13:05:54; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;27862  
 5; 2280.4; 29-JUN-2007 13:08:31; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;27862  
 6; 2446.7; 29-JUN-2007 13:11:17; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;27862  
 7; 2813.8; 29-JUN-2007 13:17:25; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27862  
 8; 2951.7; 29-JUN-2007 13:19:42; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;27862  
 9; 3187.9; 29-JUN-2007 13:23:39; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;27862  
 10; 3445.7; 29-JUN-2007 13:27:56; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27862  
 11; 4064.3; 29-JUN-2007 13:38:15; Bright; 38.5; 160; 23Gam Per ; 2.93; 4700;occ; 77; 0;27862  
 12; 4164.6; 29-JUN-2007 13:39:55; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;27862  
 13; 4293.9; 29-JUN-2007 13:42:05; Bright; 38.0; 79; 26Bet Per ; 2.31; 13100;occ; 76; 0;27862  
 14; 4966.4; 29-JUN-2007 13:53:17; Dark ; 48.5; 94; 92Alp Cet ; 2.53; 3100;occ; 97; 0;27862  
 15; 5194.1; 29-JUN-2007 13:57:05; Dark ; 41.0; 165; 34Gam Eri ; 2.95; 3200;occ; 82; 0;27862  
 16; 5700.6; 29-JUN-2007 14:05:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27862  
 17; 6059.3; 29-JUN-2007 14:11:30; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;27862  
 18; 6503.6; 29-JUN-2007 14:18:54; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;27862  
 19; 6768.4; 29-JUN-2007 14:23:19; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;27862  
 20; 7093.9; 29-JUN-2007 14:28:45; Dark ; 36.0; 147; Alp Ara ; 2.88; 26000;occ; 72; 0;27862  
 21; 7201.6; 29-JUN-2007 14:30:32; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27862  
 22; 7301.5; 29-JUN-2007 14:32:12; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;27862  
 23; 7385.5; 29-JUN-2007 14:33:36; Dark ; 44.0; 116; 19Del Sgr ; 2.70; 4100;occ; 88; 0;27862

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1; 1639.2; 29-JUN-2007 14:38:26; Bright; 35.5; 86; 35Eta Oph ; 2.43; 10200;occ; 71; 0;27863  
 2; 1743.9; 29-JUN-2007 14:40:11; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;27863  
 3; 1982.9; 29-JUN-2007 14:44:10; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;27863  
 4; 2123.7; 29-JUN-2007 14:46:30; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;27863  
 5; 2280.5; 29-JUN-2007 14:49:07; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;27863  
 6; 2446.8; 29-JUN-2007 14:51:53; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;27863  
 7; 2813.7; 29-JUN-2007 14:58:00; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27863  
 8; 2951.9; 29-JUN-2007 15:00:18; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;27863  
 9; 3188.1; 29-JUN-2007 15:04:15; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27863  
 10; 3445.7; 29-JUN-2007 15:08:32; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27863  
 11; 4064.2; 29-JUN-2007 15:18:51; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;27863  
 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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1;	734.4;	29-JUN-2007	21:05:45;	Dark	;	40.5;	45;	Alp Pav	;	1.94;	26000;occ;	81;	0;	27867
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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1;	-840.7;	29-JUN-2007	22:20:06;	Dark	;	40.5;	165;	34Gam Eri	;	2.95;	3200;occ;	81;	0;	27867
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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1;	1265.8;	29-JUN-2007	16:12:48;	Dark	;	43.0;	25;	35Lam Sco	;	1.62;	28000;occ;	86;	0;	27864
2;	1349.7;	29-JUN-2007	16:14:12;	Dark	;	53.5;	116;	19Del Sgr	;	2.70;	4100;occ;	107;	0;	27864
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
21;	6769.4;	29-JUN-2007	17:44:32;	Dark	;	39.5;	45;	Alp Pav	;	1.94;	26000;occ;	79;	0;	27864



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1; 1058.3; 29-JUN-2007 17:49:57; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;27865  
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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  
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 5; 1639.3; 29-JUN-2007 17:59:38; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;27865  
 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  
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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  
 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  
 15; 4063.9; 29-JUN-2007 18:40:03; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 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  
 18; 4967.8; 29-JUN-2007 18:55:06; Dark ; 49.5; 94; 92Alp Cet ; 2.53; 3100;occ; 99; 0;27865  
 19; 5194.8; 29-JUN-2007 18:58:53; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;27865  
 20; 5702.4; 29-JUN-2007 19:07:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27865  
 21; 6060.7; 29-JUN-2007 19:13:19; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;27865  
 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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