

# GOMOS Daily Report 09-JUL-2008

## 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	11JUL2008 05:32:14
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (09JUL2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (10JUL2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

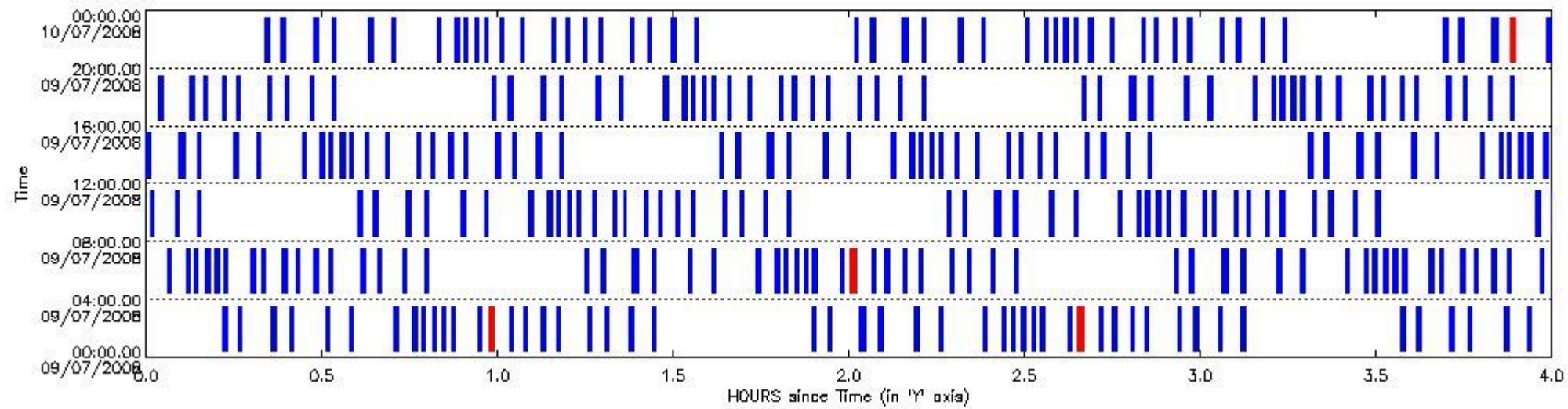
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

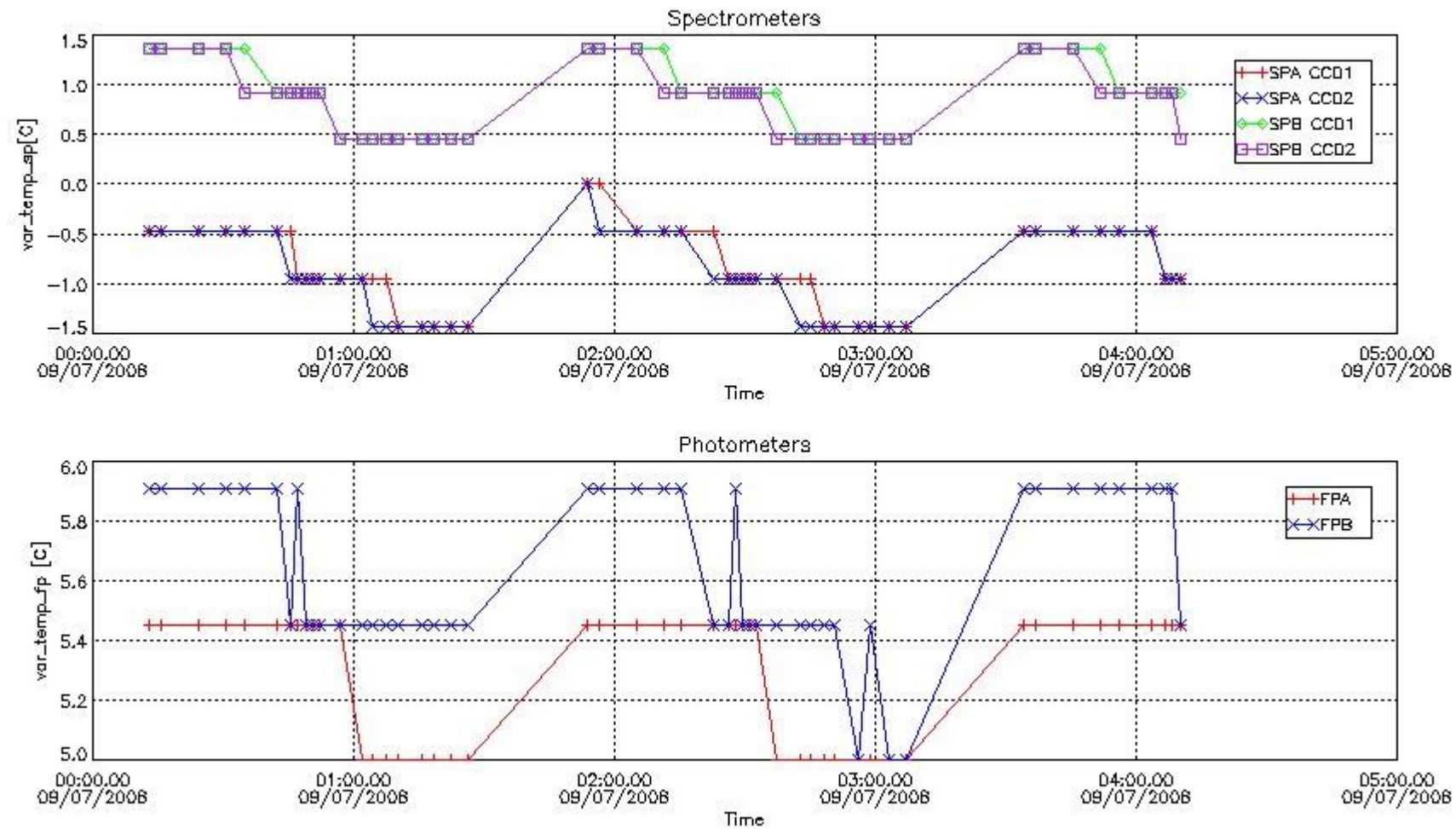
UTC start time	Star name	Star ID	Orbit
09-JUL-2008 00:58:28	13ZetOph	98	33237
09-JUL-2008 02:39:04	13ZetOph	98	33238
09-JUL-2008 06:00:17	13ZetOph	98	33240
09-JUL-2008 23:52:55	The1Eri	157	33250

### 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_1PNPDE20080709_001305_000000422070_00116_33236_7736.N1	09-JUL-2008 00:13:05	Dark	42.000	7	19Bet Ori	0.10000	14000.	84	33236	No
2	GOM_TRA_1PNPDE20080709_001544_000000372070_00116_33236_7737.N1	09-JUL-2008 00:15:44	Dark	37.000	165	34Gam Eri	2.9500	3200.0	74	33236	No
3	GOM_TRA_1PNPDE20080709_002427_000000422070_00116_33236_7870.N1	09-JUL-2008 00:24:27	Dark	41.500	157	The1Eri	2.9060	9300.0	83	33236	No
4	GOM_TRA_1PNPDE20080709_003039_000000402070_00117_33237_7871.N1	09-JUL-2008 00:30:39	Dark	40.000	9	Alp Eri	0.45300	24000.	80	33237	No
5	GOM_TRA_1PNPDE20080709_003443_000000362070_00117_33237_7872.N1	09-JUL-2008 00:34:43	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	33237	No
6	GOM_TRA_1PNPDE20080709_004219_000000402070_00117_33237_7873.N1	09-JUL-2008 00:42:19	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	33237	No
7	GOM_TRA_1PNPDE20080709_004532_000000392070_00117_33237_7874.N1	09-JUL-2008 00:45:32	Straylight	38.500	141	Bet Ara	2.8400	4600.0	77	33237	No

8	GOM_TRA_1PNPDE20080709_004702_000000382070_00117_33237_7875.N1	09-JUL-2008 00:47:02	Twilight	37.500	147	Alp Ara	2.8770	26000.	75	33237	No
9	GOM_TRA_1PNPDE20080709_004853_000000402070_00117_33237_7876.N1	09-JUL-2008 00:48:53	Twilight	39.500	40	The Sco	1.8590	7100.0	79	33237	No
10	GOM_TRA_1PNPDE20080709_005032_000000382070_00117_33237_7877.N1	09-JUL-2008 00:50:32	Twilight	37.500	25	35Lam Sco	1.6200	28000.	75	33237	No
11	GOM_TRA_1PNPDE20080709_005201_000000422070_00117_33237_7878.N1	09-JUL-2008 00:52:01	Bright	42.000	116	19Del Sgr	2.7000	4100.0	84	33237	No
12	GOM_TRA_1PNPDE20080709_005642_000000362070_00117_33237_7879.N1	09-JUL-2008 00:56:42	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	33237	No
13	GOM_TRA_1PNPDE20080709_010205_000000372070_00117_33237_7880.N1	09-JUL-2008 01:02:05	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	33237	No
14	GOM_TRA_1PNPDE20080709_010422_000000362070_00117_33237_7881.N1	09-JUL-2008 01:04:22	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	33237	No
15	GOM_TRA_1PNPDE20080709_010727_000000382070_00117_33237_7882.N1	09-JUL-2008 01:07:27	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	33237	No
16	GOM_TRA_1PNPDE20080709_011003_000000362070_00117_33237_7883.N1	09-JUL-2008 01:10:03	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	33237	No
17	GOM_TRA_1PNPDE20080709_011531_000000272070_00117_33237_7884.N1	09-JUL-2008 01:15:31	Bright	27.000	69	33Gam Dra	2.2310	3800.0	54	33237	No
18	GOM_TRA_1PNPDE20080709_011821_000000372070_00117_33237_7885.N1	09-JUL-2008 01:18:21	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	33237	No
19	GOM_TRA_1PNPDE20080709_012230_000000372070_00117_33237_7886.N1	09-JUL-2008 01:22:30	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	33237	No
20	GOM_TRA_1PNPDE20080709_012624_000000322070_00117_33237_7887.N1	09-JUL-2008 01:26:24	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	33237	No
21	GOM_TRA_1PNPDE20080709_015341_000000382070_00117_33237_8041.N1	09-JUL-2008 01:53:41	Dark	38.000	7	19Bet Ori	0.10000	14000.	76	33237	No
22	GOM_TRA_1PNPDE20080709_015620_000000382070_00117_33237_8042.N1	09-JUL-2008 01:56:20	Dark	37.500	165	34Gam Eri	2.9500	3200.0	75	33237	No
23	GOM_TRA_1PNPDE20080709_020504_000000392070_00117_33237_8043.N1	09-JUL-2008 02:05:04	Dark	39.000	157	The1Eri	2.9060	9300.0	78	33237	No
24	GOM_TRA_1PNPDE20080709_021115_000000412070_00118_33238_8044.N1	09-JUL-2008 02:11:15	Dark	41.000	9	Alp Eri	0.45300	24000.	82	33238	No
25	GOM_TRA_1PNPDE20080709_021519_000000372070_00118_33238_8045.N1	09-JUL-2008 02:15:19	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	33238	No
26	GOM_TRA_1PNPDE20080709_022256_000000402070_00118_33238_8046.N1	09-JUL-2008 02:22:56	Straylight	39.500	45	Alp Pav	1.9400	26000.	79	33238	No
27	GOM_TRA_1PNPDE20080709_022608_000000412070_00118_33238_8047.N1	09-JUL-2008 02:26:08	Straylight	40.500	141	Bet Ara	2.8400	4600.0	81	33238	No
28	GOM_TRA_1PNPDE20080709_022738_000000392070_00118_33238_8048.N1	09-JUL-2008 02:27:38	Twilight	38.500	147	Alp Ara	2.8770	26000.	77	33238	No
29	GOM_TRA_1PNPDE20080709_022929_000000392070_00118_33238_8049.N1	09-JUL-2008 02:29:29	Twilight	39.000	40	The Sco	1.8590	7100.0	78	33238	No
30	GOM_TRA_1PNPDE20080709_023109_000000392070_00118_33238_8050.N1	09-JUL-2008 02:31:09	Twilight	39.000	25	35Lam Sco	1.6200	28000.	78	33238	No
31	GOM_TRA_1PNPDE20080709_023237_000000532070_00118_33238_8051.N1	09-JUL-2008 02:32:37	Bright	53.000	116	19Del Sgr	2.7000	4100.0	106	33238	No
32	GOM_TRA_1PNPDE20080709_023718_000000372070_00118_33238_8052.N1	09-JUL-2008 02:37:18	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	33238	No
33	GOM_TRA_1PNPDE20080709_024241_000000362070_00118_33238_8053.N1	09-JUL-2008 02:42:41	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	33238	No
34	GOM_TRA_1PNPDE20080709_024458_000000402070_00118_33238_8054.N1	09-JUL-2008 02:44:58	Bright	39.500	59	55Alp Oph	2.0800	8900.0	79	33238	No
35	GOM_TRA_1PNPDE20080709_024803_000000382070_00118_33238_8055.N1	09-JUL-2008 02:48:03	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	33238	No
36	GOM_TRA_1PNPDE20080709_025039_000000342070_00118_33238_8056.N1	09-JUL-2008 02:50:39	Bright	33.500	133	40Zet Her	2.8070	6000.0	67	33238	No
37	GOM_TRA_1PNPDE20080709_025607_000000372070_00118_33238_8057.N1	09-JUL-2008 02:56:07	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	33238	No
38	GOM_TRA_1PNPDE20080709_025857_000000352070_00118_33238_8058.N1	09-JUL-2008 02:58:57	Bright	34.500	119	14Eta Dra	2.7270	4700.0	69	33238	No
39	GOM_TRA_1PNPDE20080709_030306_000000342070_00118_33238_8059.N1	09-JUL-2008 03:03:06	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	33238	No
40	GOM_TRA_1PNPDE20080709_030700_000000352070_00118_33238_8060.N1	09-JUL-2008 03:07:00	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	33238	No
41	GOM_TRA_1PNPDE20080709_033417_000000382070_00118_33238_8161.N1	09-JUL-2008 03:34:17	Dark	38.000	7	19Bet Ori	0.10000	14000.	76	33238	No
42	GOM_TRA_1PNPDE20080709_033656_000000432070_00118_33238_8162.N1	09-JUL-2008 03:36:56	Dark	42.500	165	34Gam Eri	2.9500	3200.0	85	33238	No
43	GOM_TRA_1PNPDE20080709_034540_000000402070_00118_33238_8163.N1	09-JUL-2008 03:45:40	Dark	39.500	157	The1Eri	2.9060	9300.0	79	33238	No
44	GOM_TRA_1PNPDE20080709_035152_000000512070_00119_33239_8164.N1	09-JUL-2008 03:51:52	Dark	51.000	9	Alp Eri	0.45300	24000.	102	33239	No
45	GOM_TRA_1PNPDE20080709_035556_000000372070_00119_33239_8165.N1	09-JUL-2008 03:55:56	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	33239	No
46	GOM_TRA_1PNPDE20080709_040332_000000422070_00119_33239_8166.N1	09-JUL-2008 04:03:32	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	33239	No
47	GOM_TRA_1PNPDE20080709_040644_000000382070_00119_33239_8167.N1	09-JUL-2008 04:06:44	Straylight	38.000	141	Bet Ara	2.8400	4600.0	76	33239	No
48	GOM_TRA_1PNPDE20080709_040815_000000372070_00119_33239_8168.N1	09-JUL-2008 04:08:15	Twilight	37.000	147	Alp Ara	2.8770	26000.	74	33239	No
49	GOM_TRA_1PNPDE20080709_041005_000000412070_00119_33239_8169.N1	09-JUL-2008 04:10:05	Twilight	41.000	40	The Sco	1.8590	7100.0	82	33239	No

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



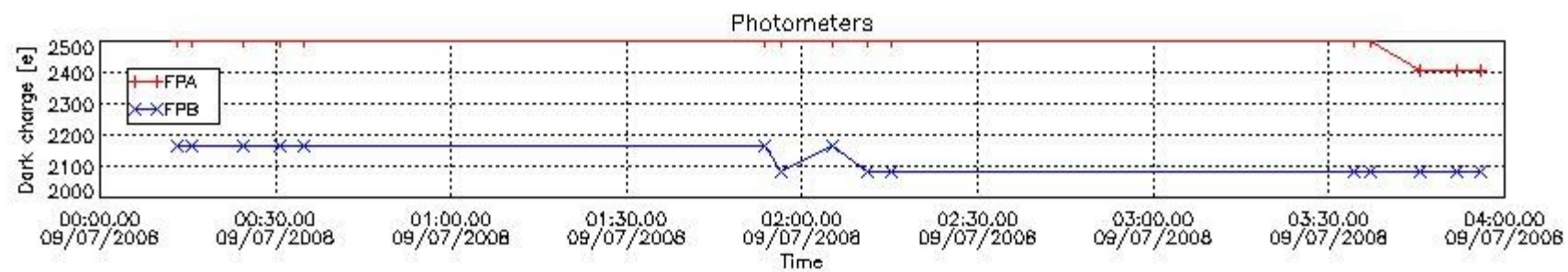
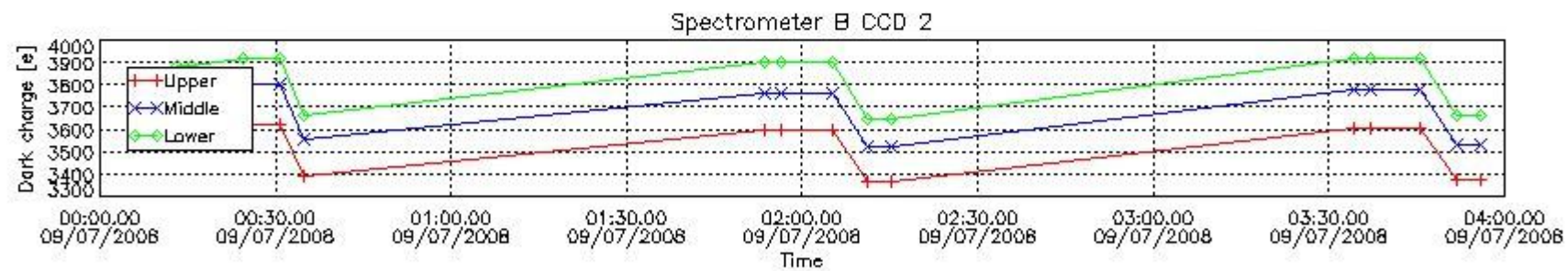
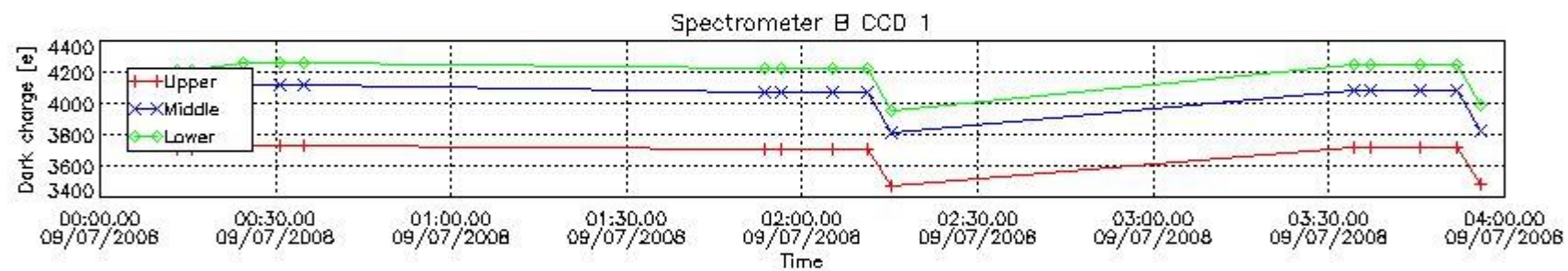
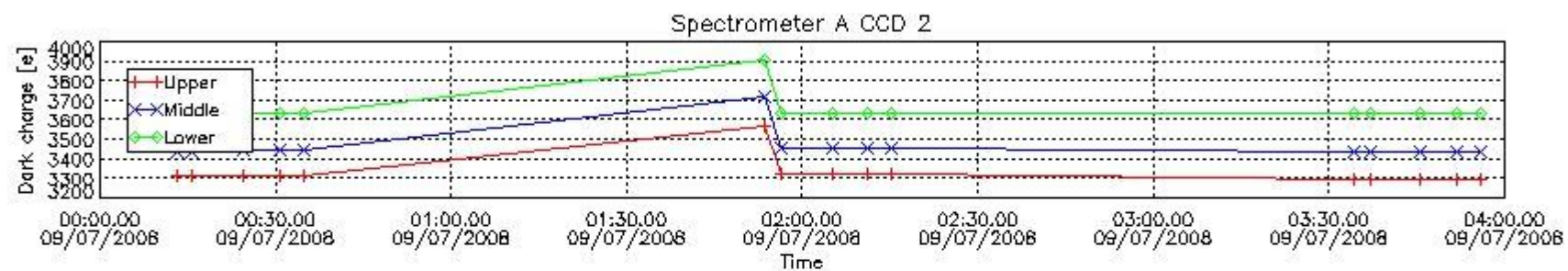
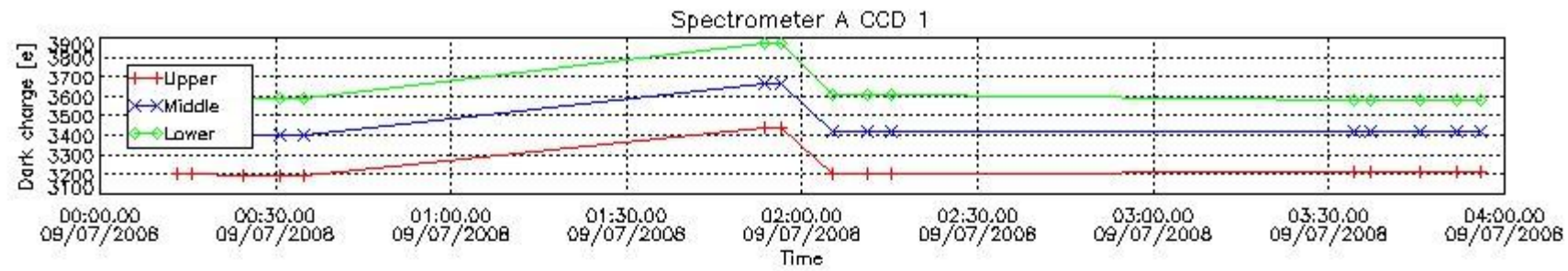
#### 4. Overview of dark signal processing per product

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



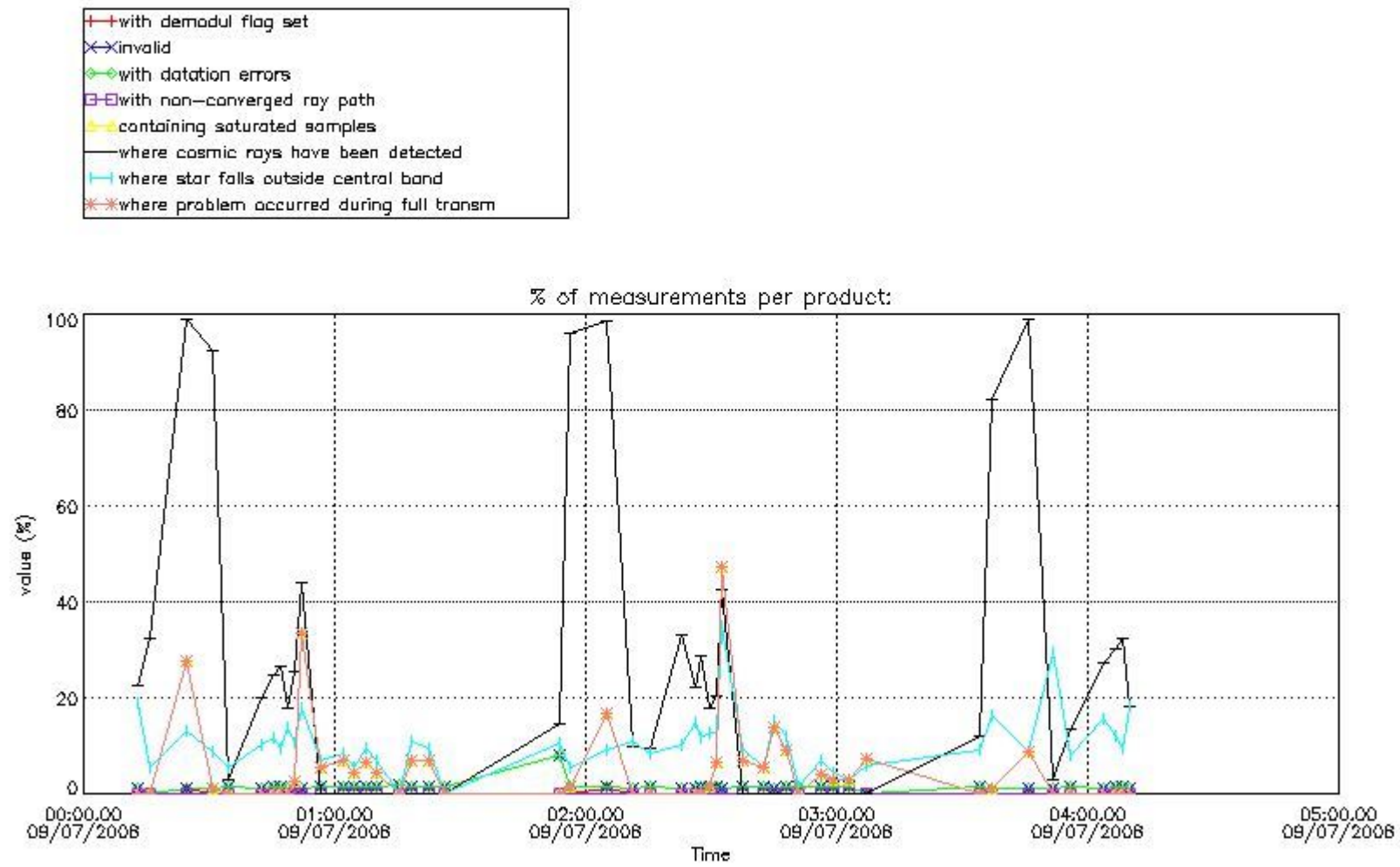
## 5. Demodulation flag and quality information monitoring

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.

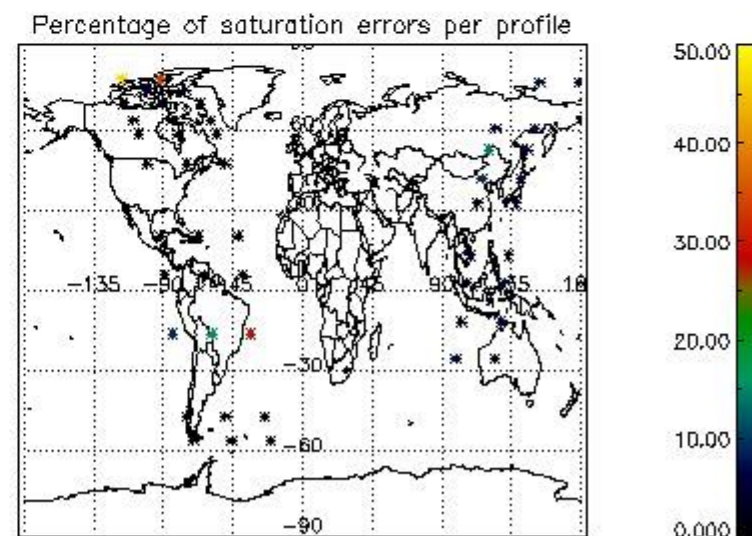
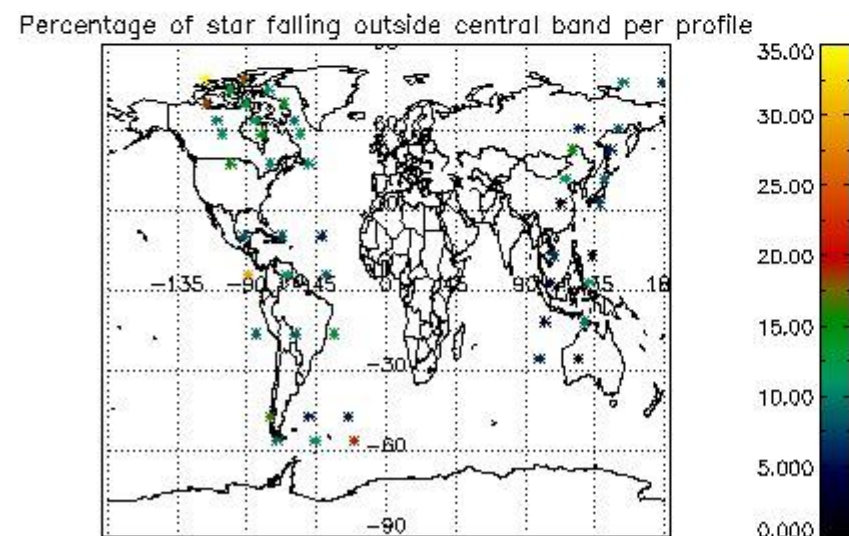
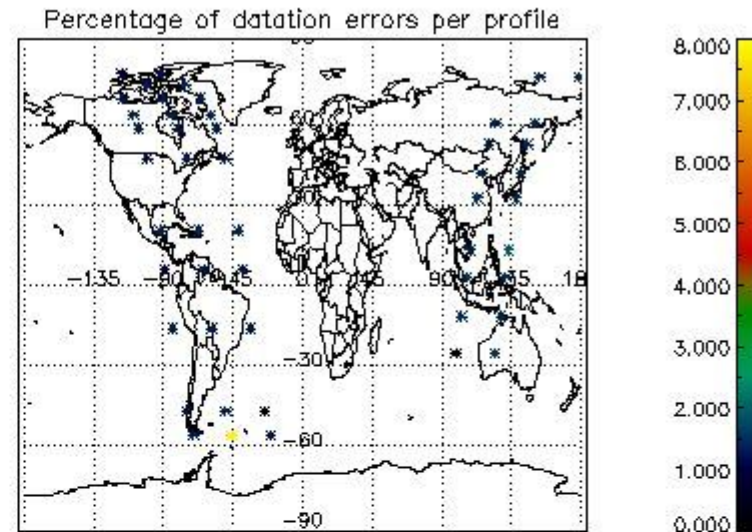
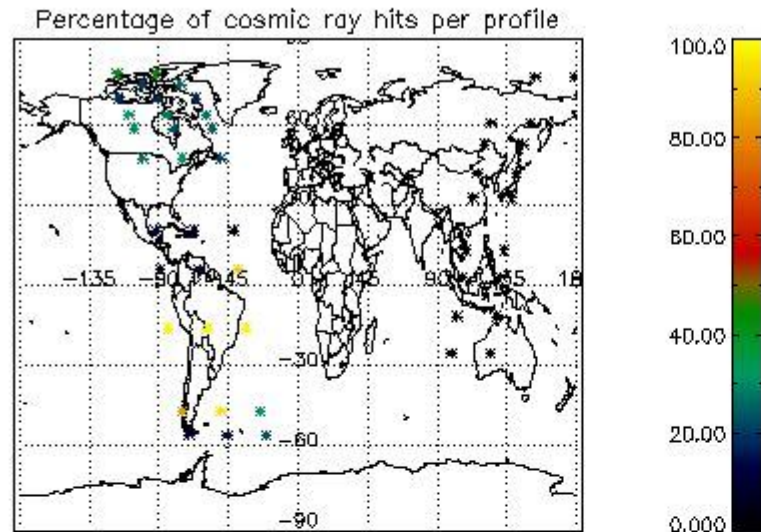
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.5306 %
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)



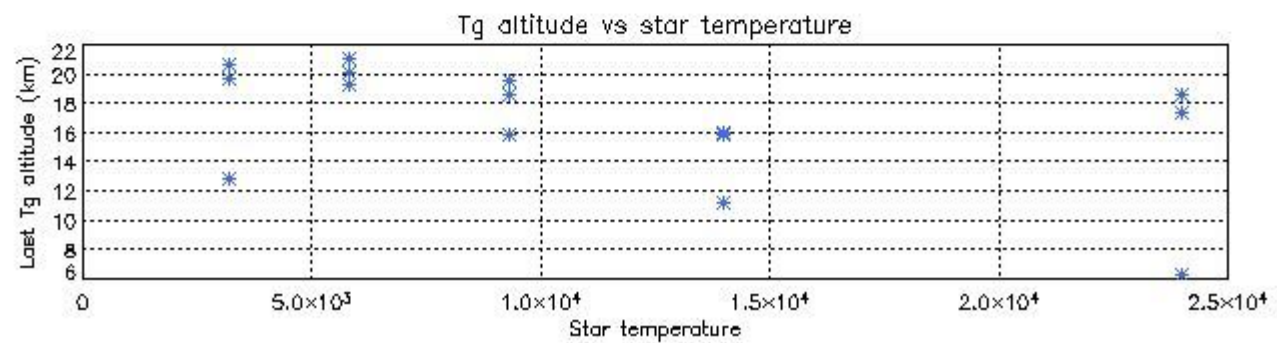
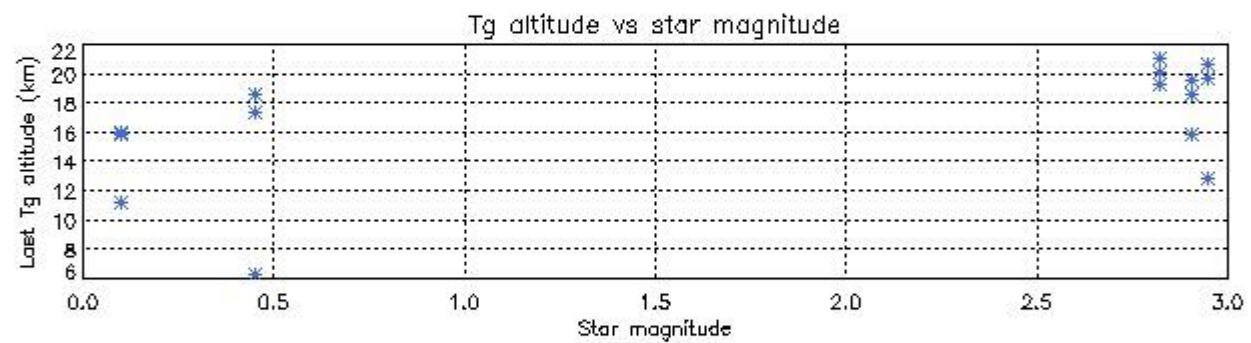
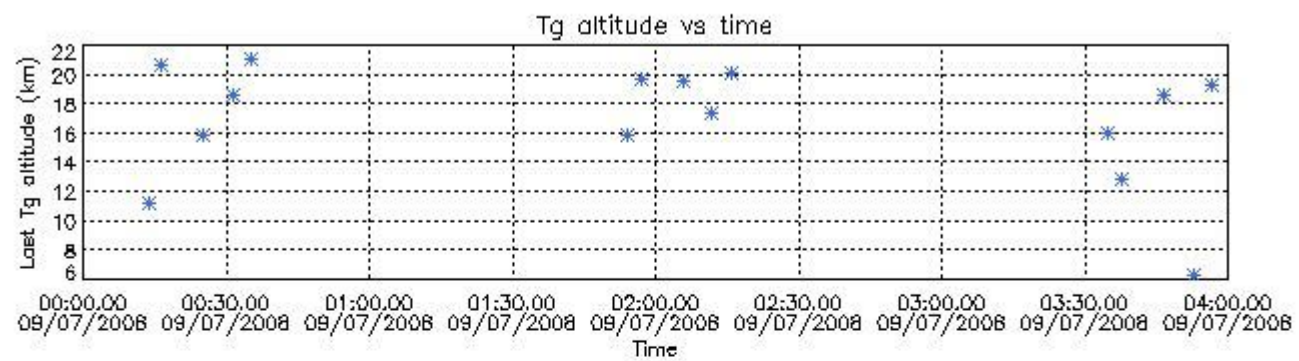
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.849	21.073	NaN
St. deviation:	4.0700	8.1450	NaN
Maximum:	21.088	47.821	NaN
Minimum:	6.3053	4.0532	NaN
Number of data:	15.000	20.000	NaN

### 6.2 Plot for DARK limb products

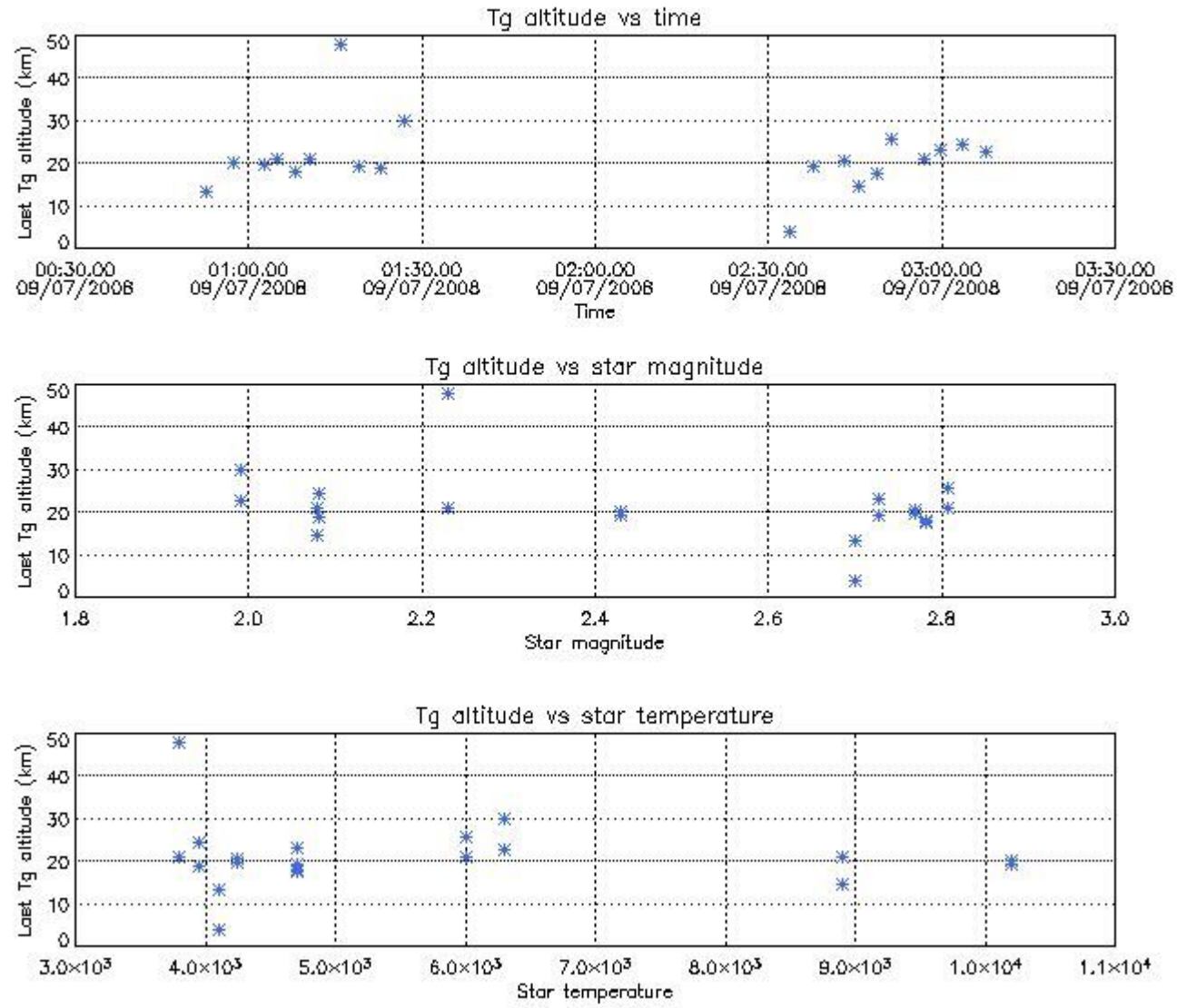
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

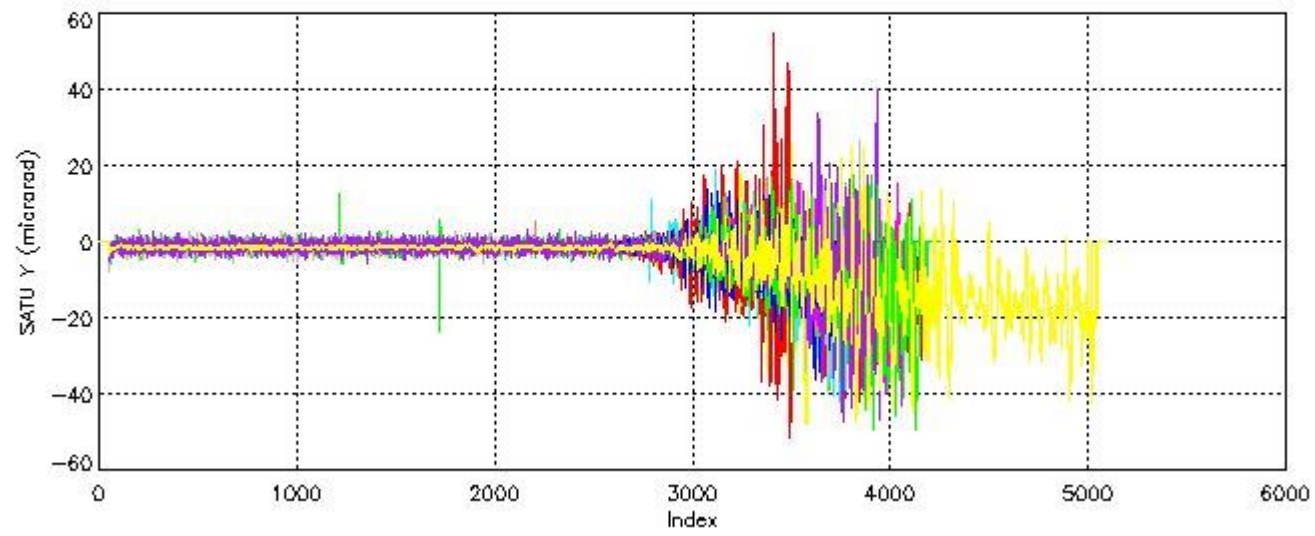
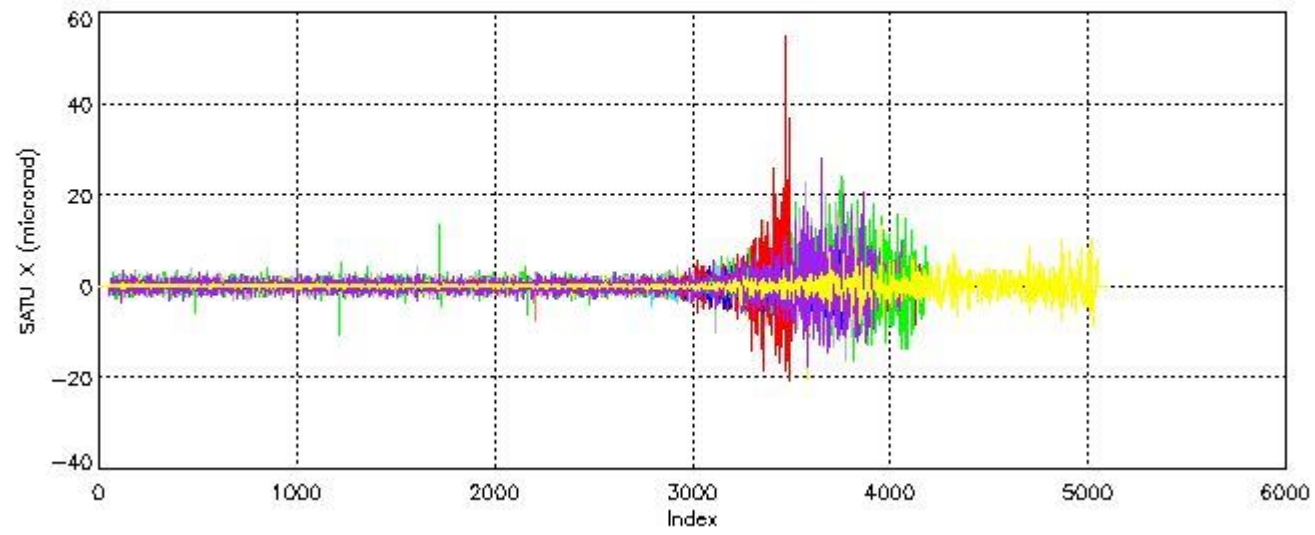


## 7. Star Acquisition and Tracking Unit (SATU)

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:	-0.020424	-1.3736	0.024074	-1.4155
St. deviation:	0.48991	0.74532	0.62270	0.77752
Maximum:	3.8000	2.9000	3.2000	2.2000
Minimum:	-5.6000	-7.7000	-3.4000	-5.3000

Number of data:	13400.	13400.	16600.	16600.
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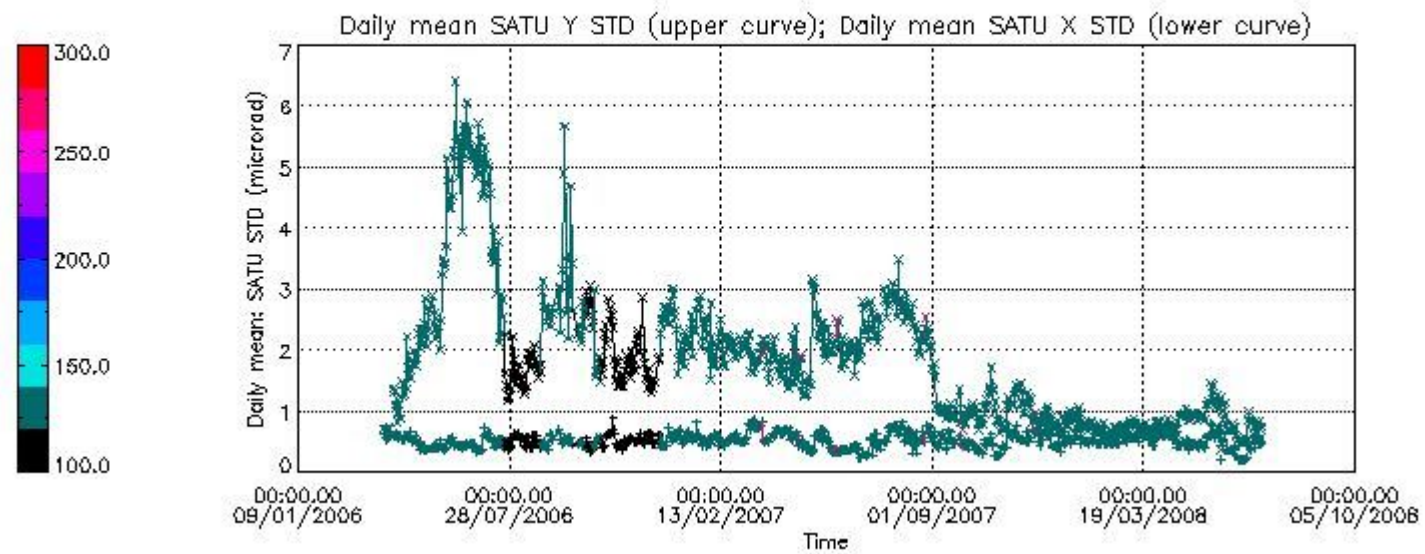
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

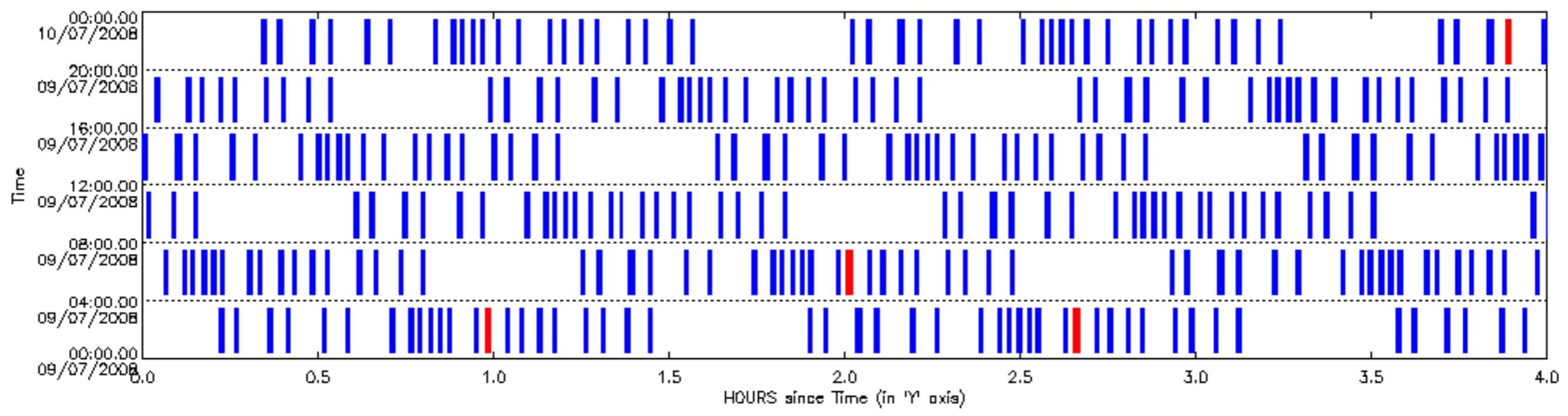
Lower curve: STD of SATU X axis

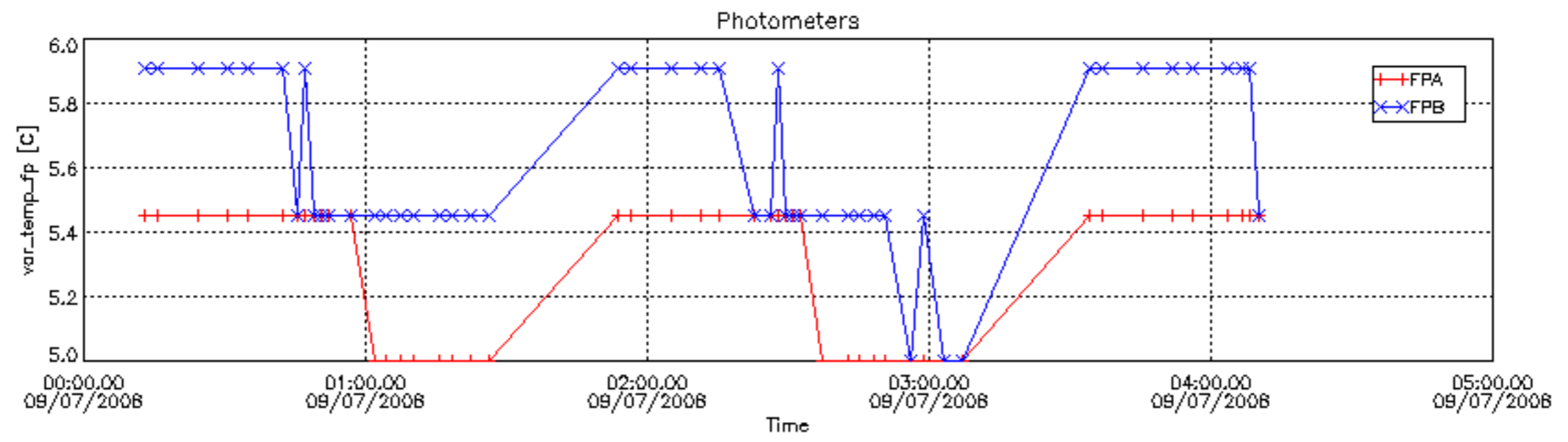
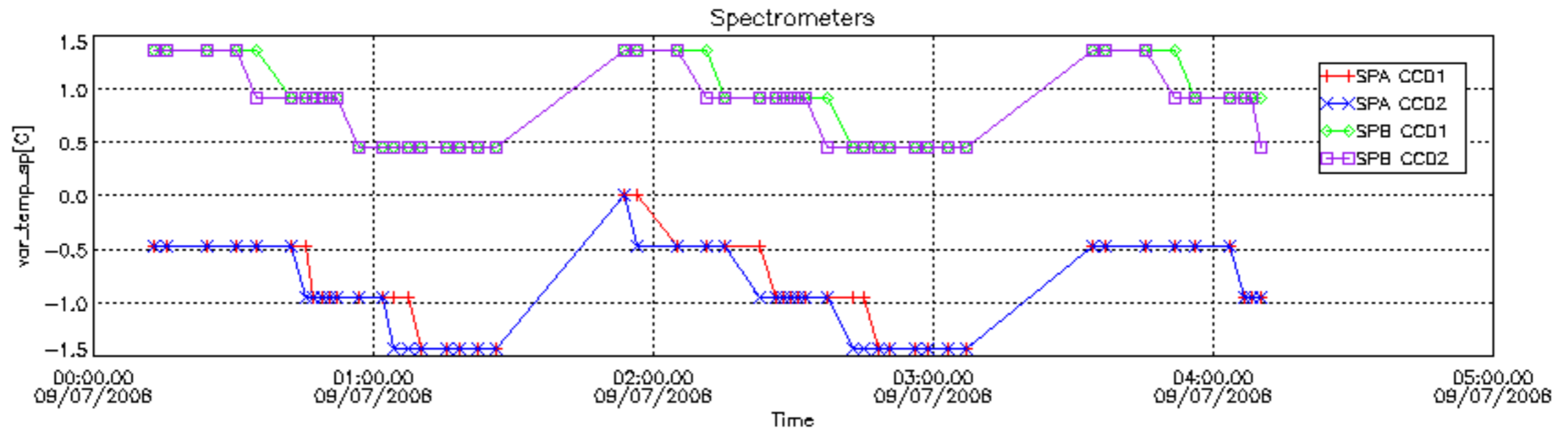


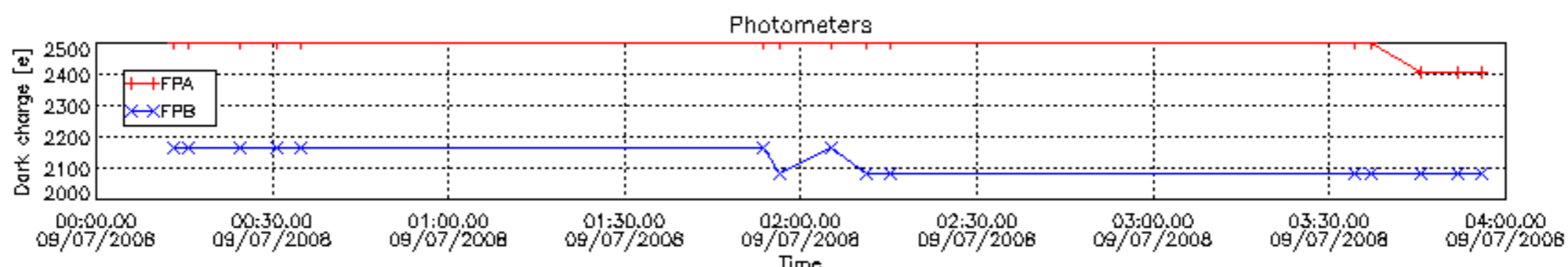
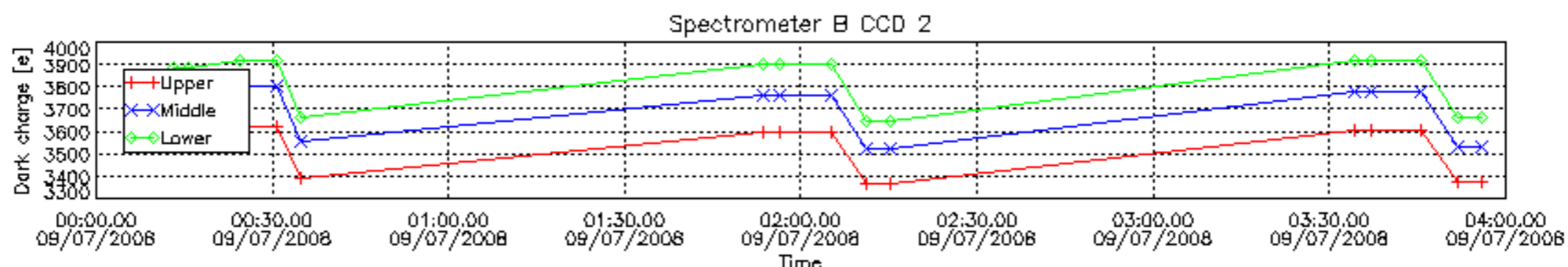
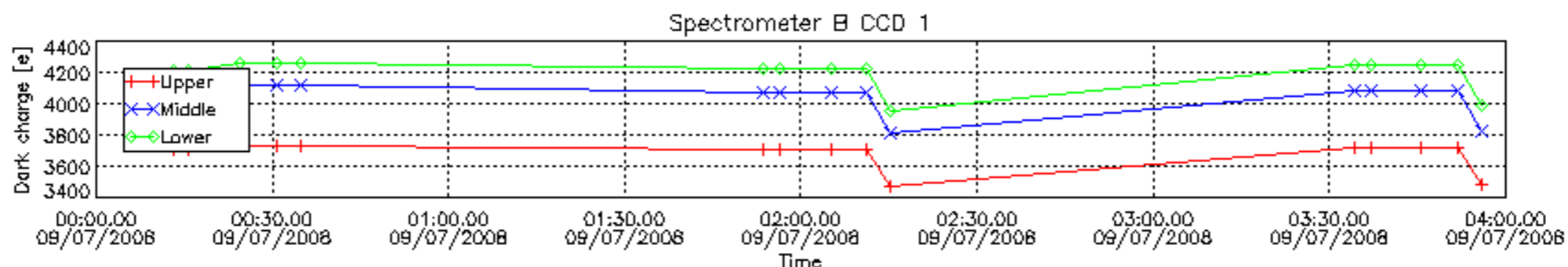
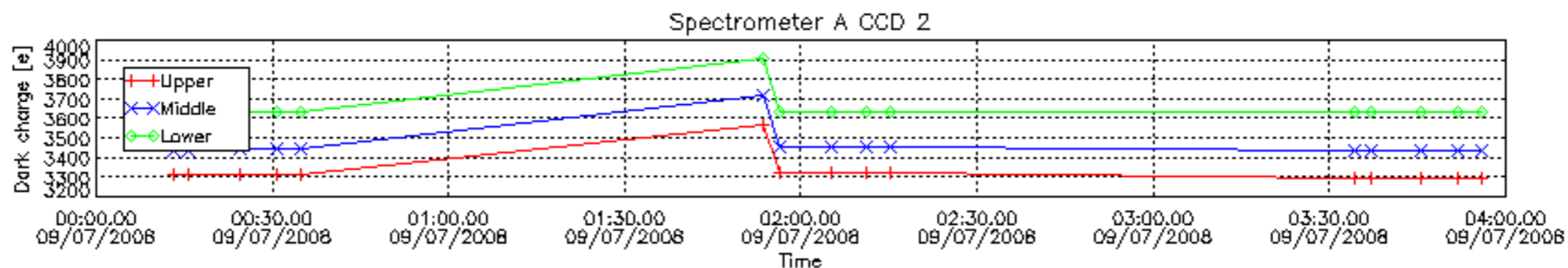
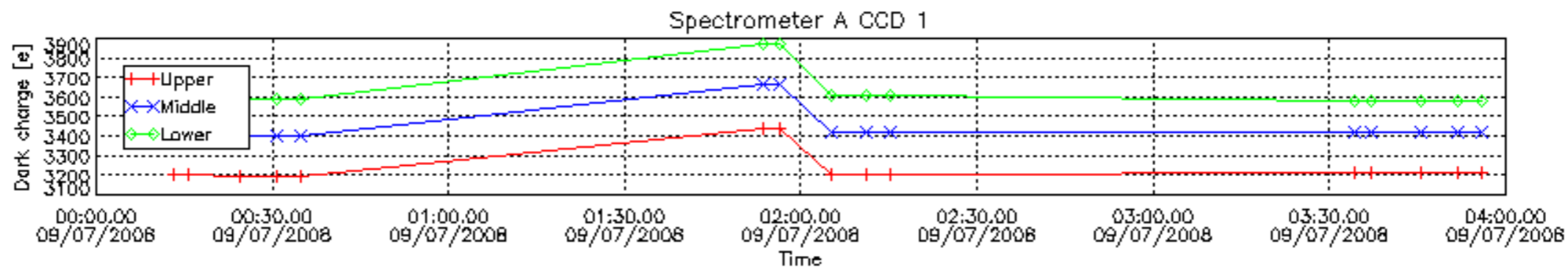
### 8. Auxiliary Data Files used for the production reported in section 2.4

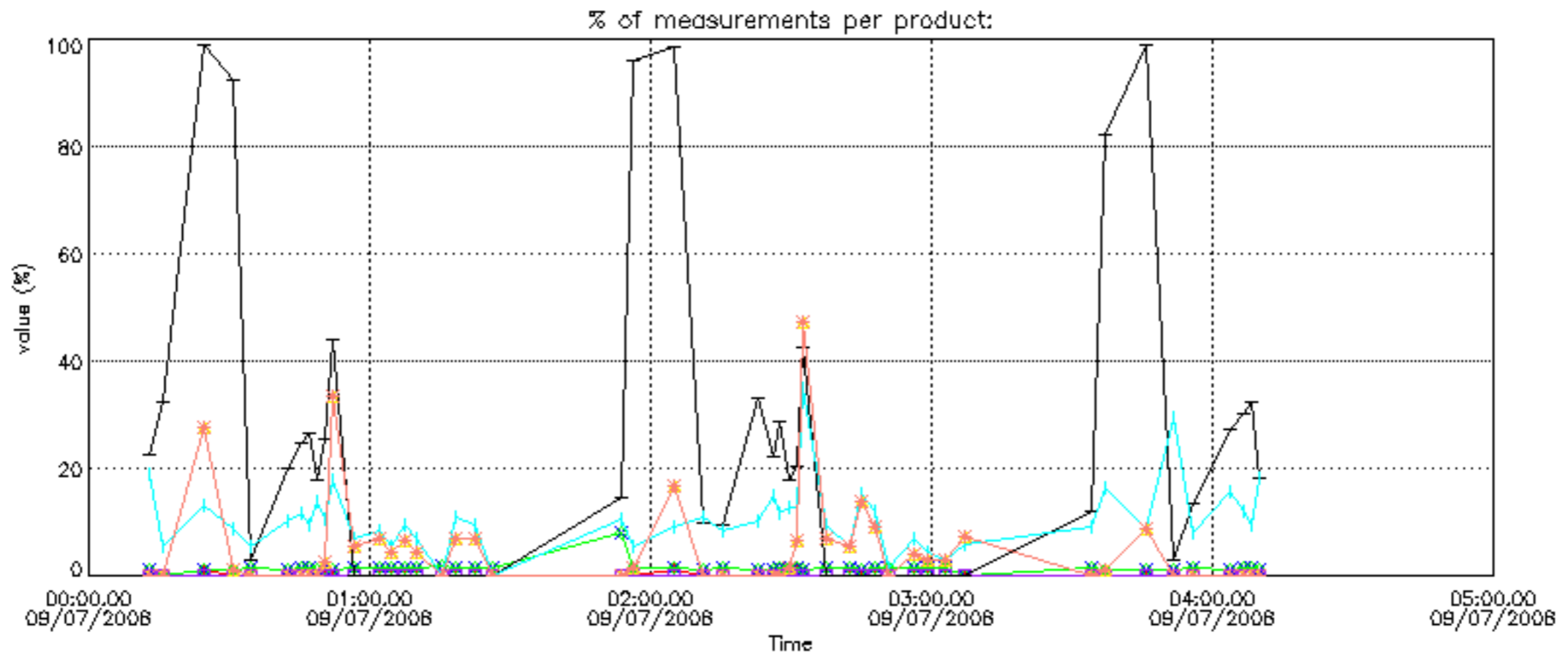
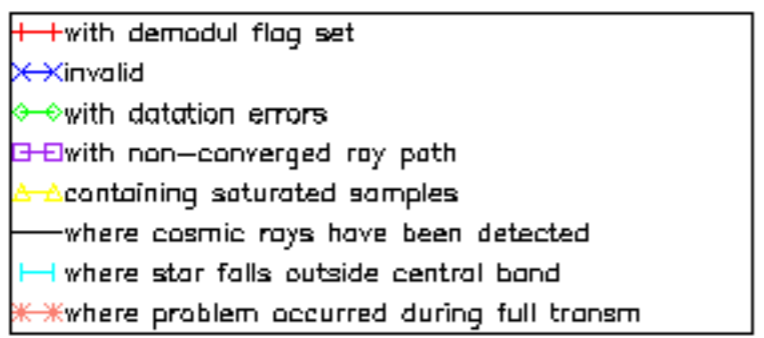
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	09-JUL-2008 00:13:05
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080707_131940_20080705_000000_20100101_000000	1	09-JUL-2008 00:13:05
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	09-JUL-2008 00:13:05
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	09-JUL-2008 00:13:05
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	09-JUL-2008 00:13:05
ECMWF_FILE	AUX_ECF_AXNECM20080708_072112_20080708_210000_20080709_090000	1	09-JUL-2008 00:13:05
ECMWF_FILE	AUX_ECF_AXNECM20080708_190115_20080709_030000_20080709_150000	41	09-JUL-2008 03:34:17
OPTIONAL_ECMWF_FILE	MISSING	1	09-JUL-2008 00:13:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080708_204903_000060572070_00114_33234_5907.N1	1	09-JUL-2008 00:13:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080708_223518_000057382070_00115_33235_5908.N1	3	09-JUL-2008 00:24:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080709_001615_000054192070_00116_33236_5909.N1	21	09-JUL-2008 01:53:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080709_015154_000041442070_00117_33237_5910.N1	41	09-JUL-2008 03:34:17

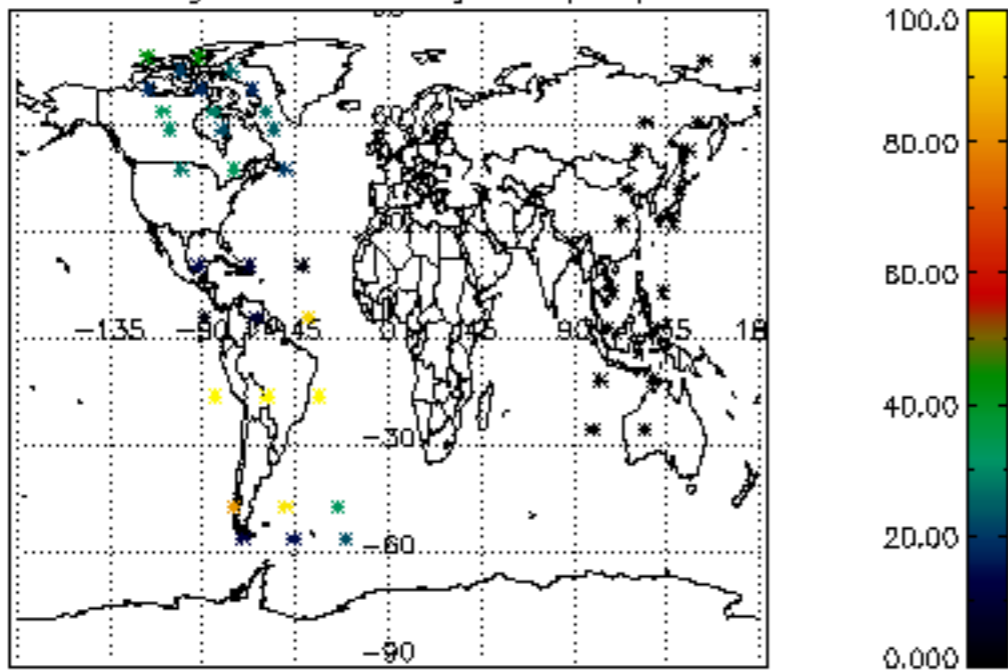




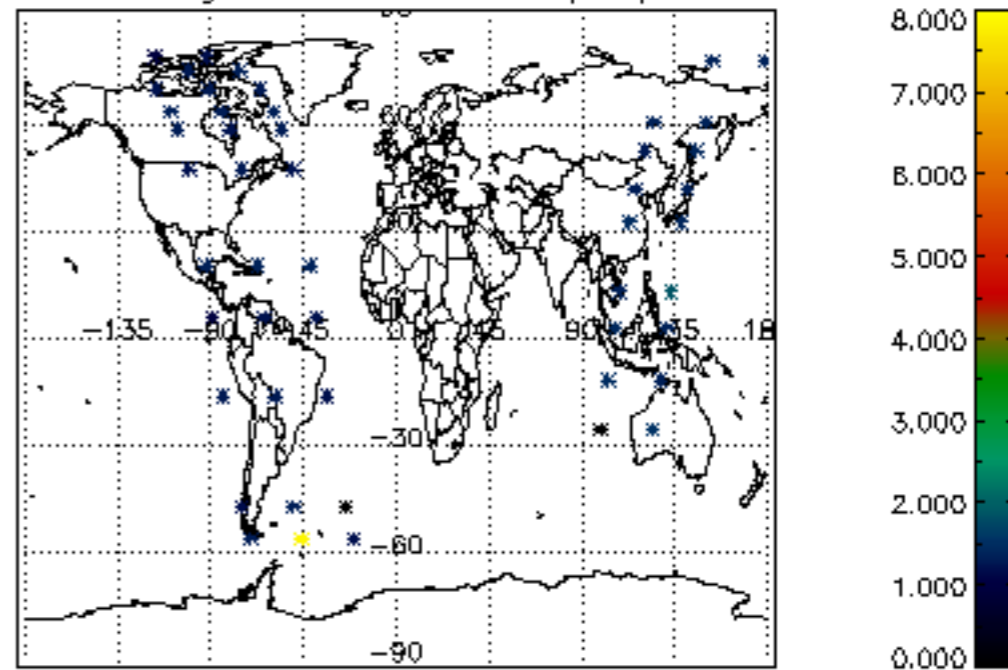




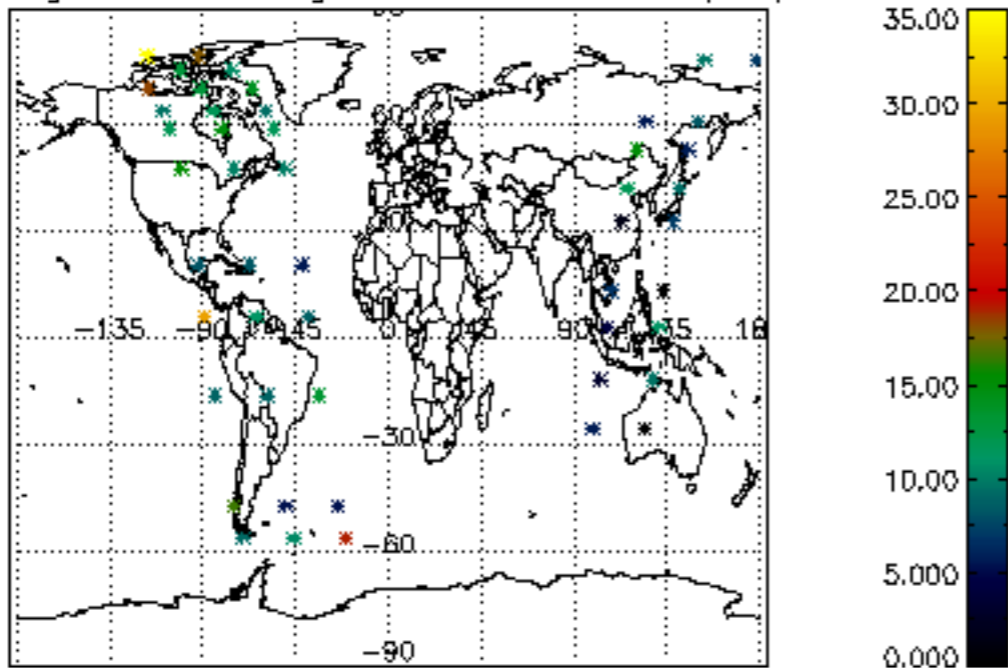
Percentage of cosmic ray hits per profile



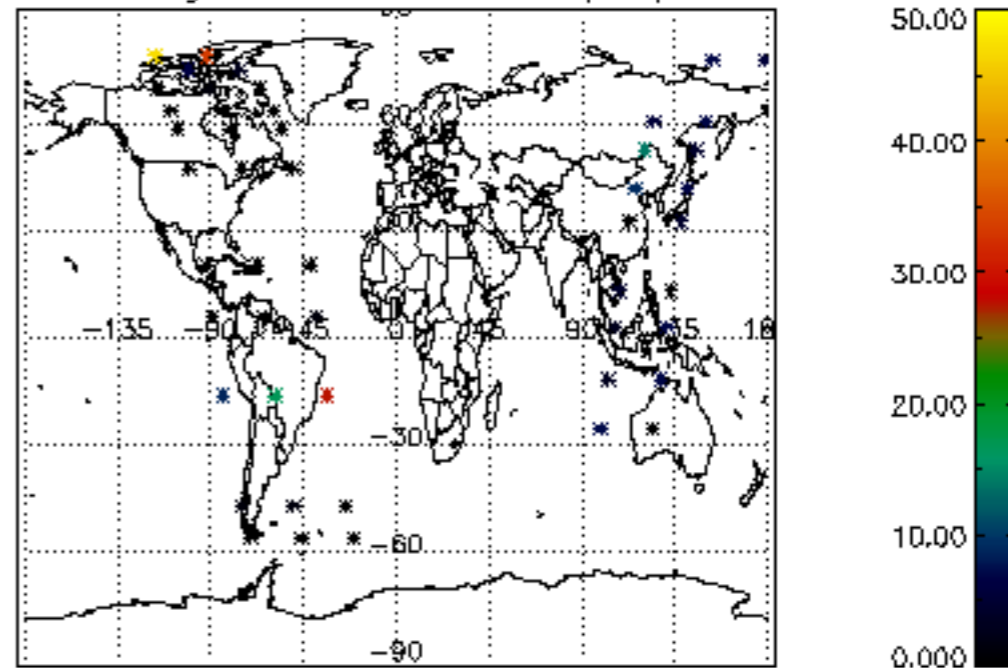
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

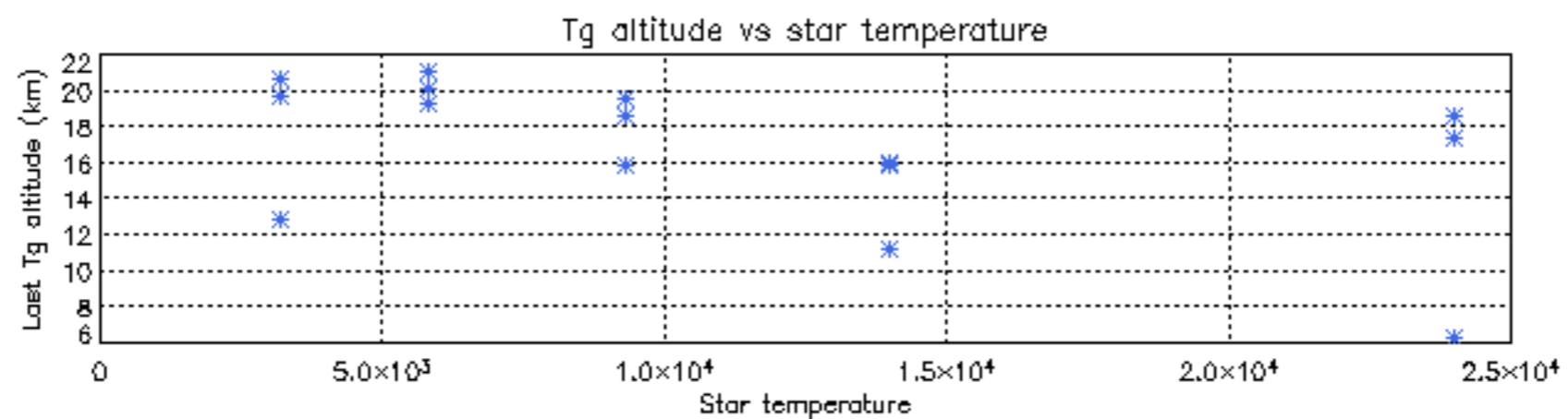
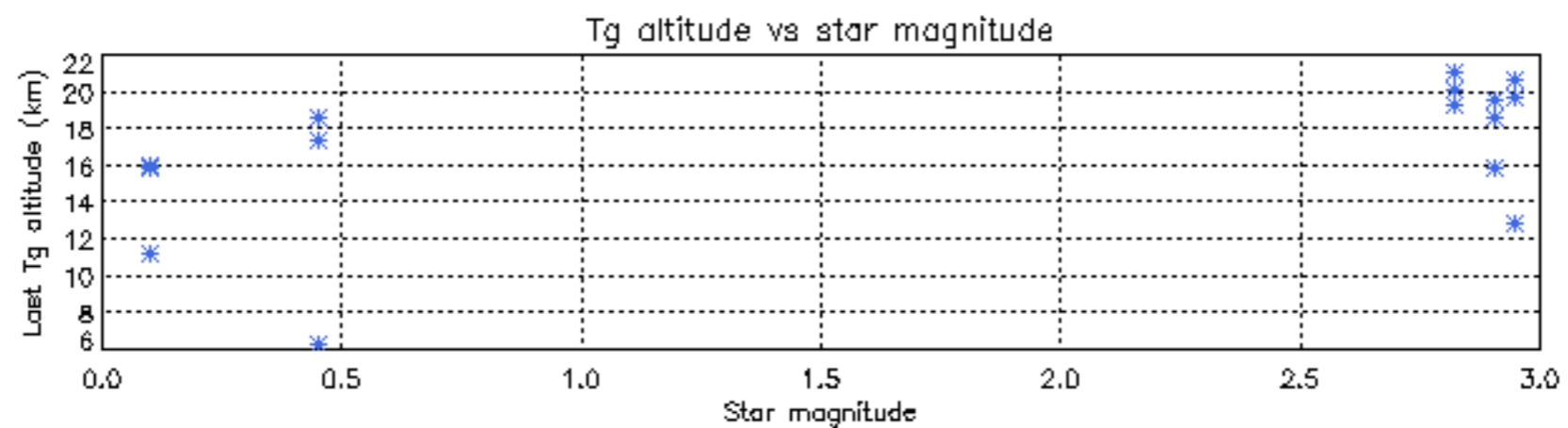
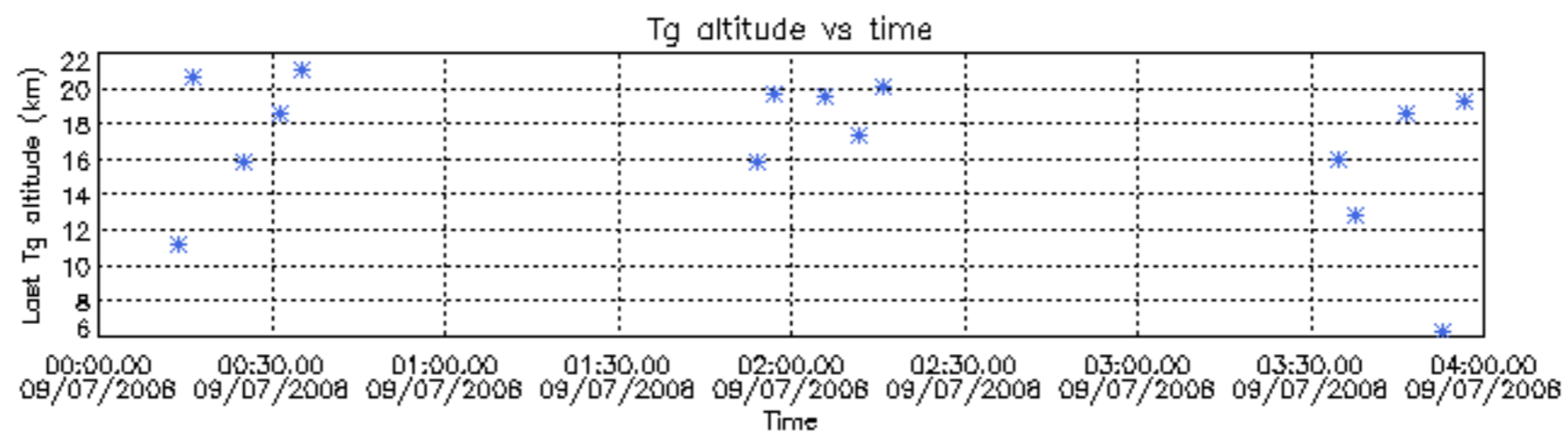


Percentage of saturation errors per profile

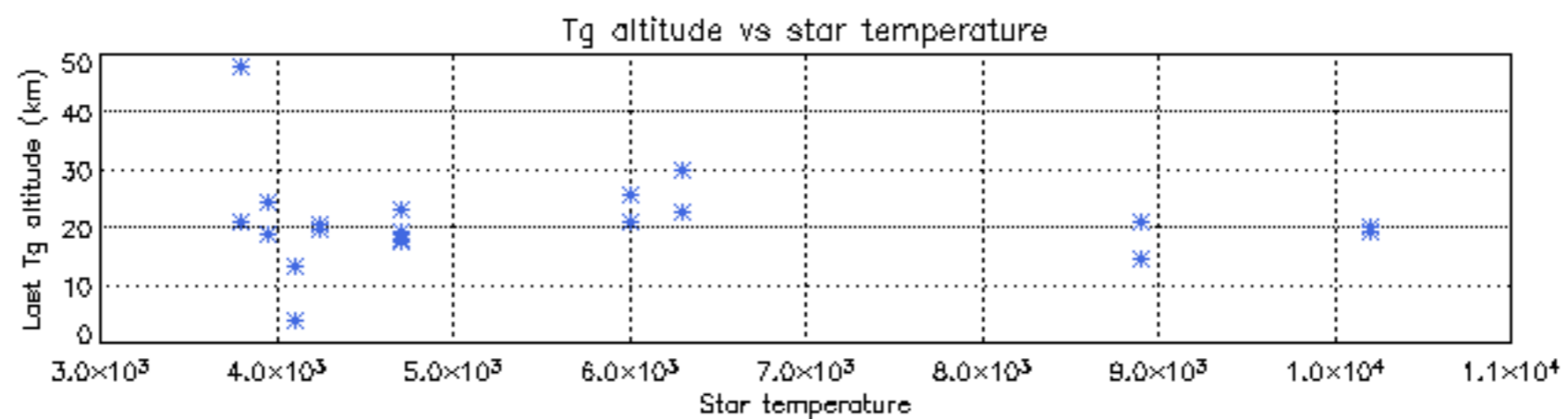
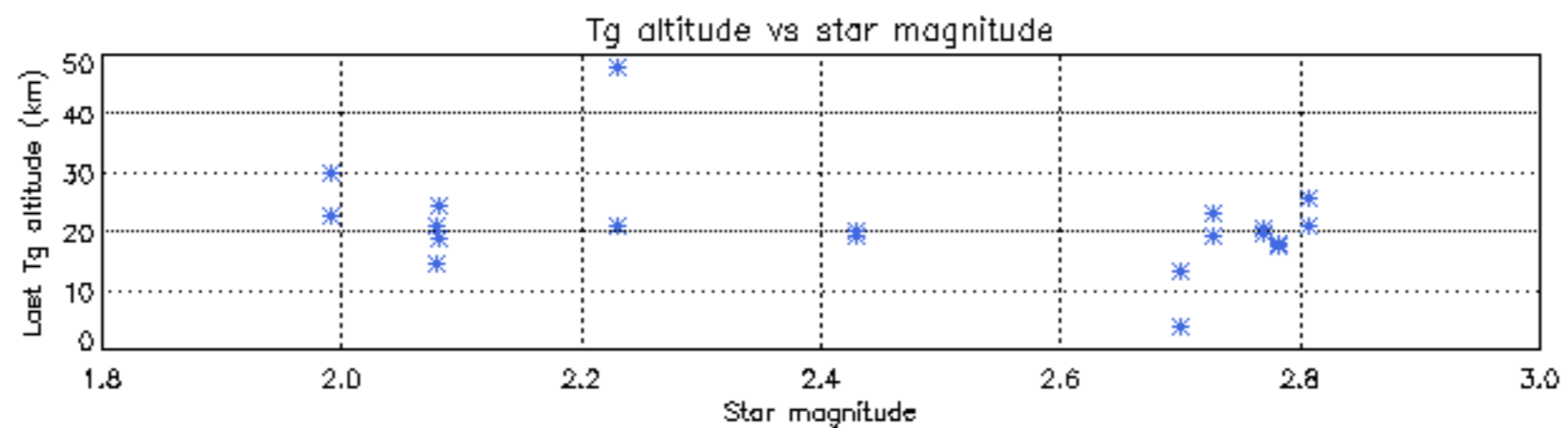
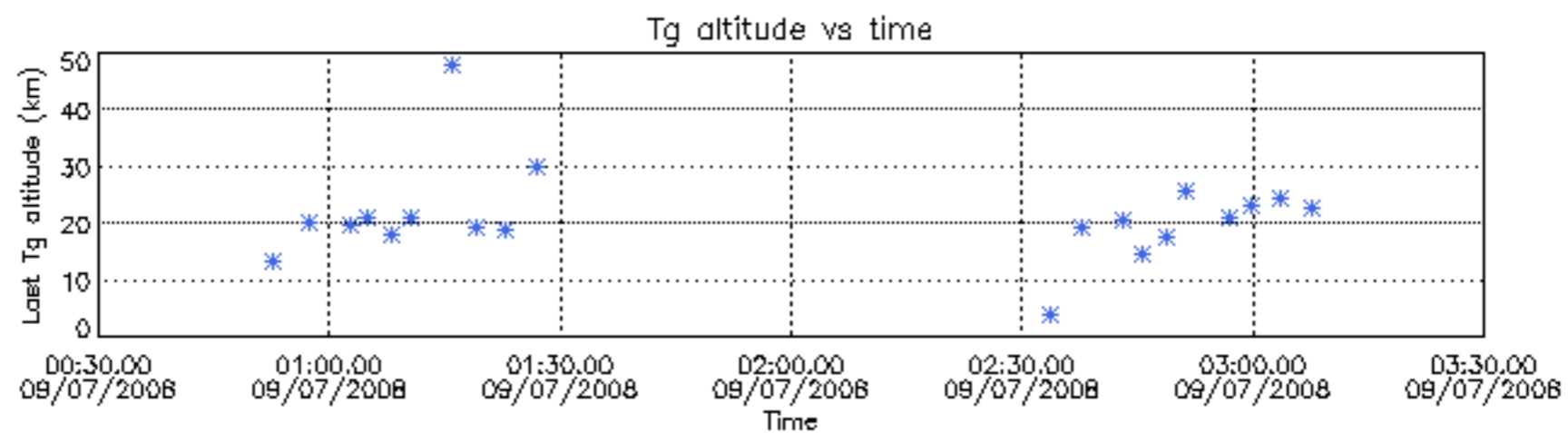


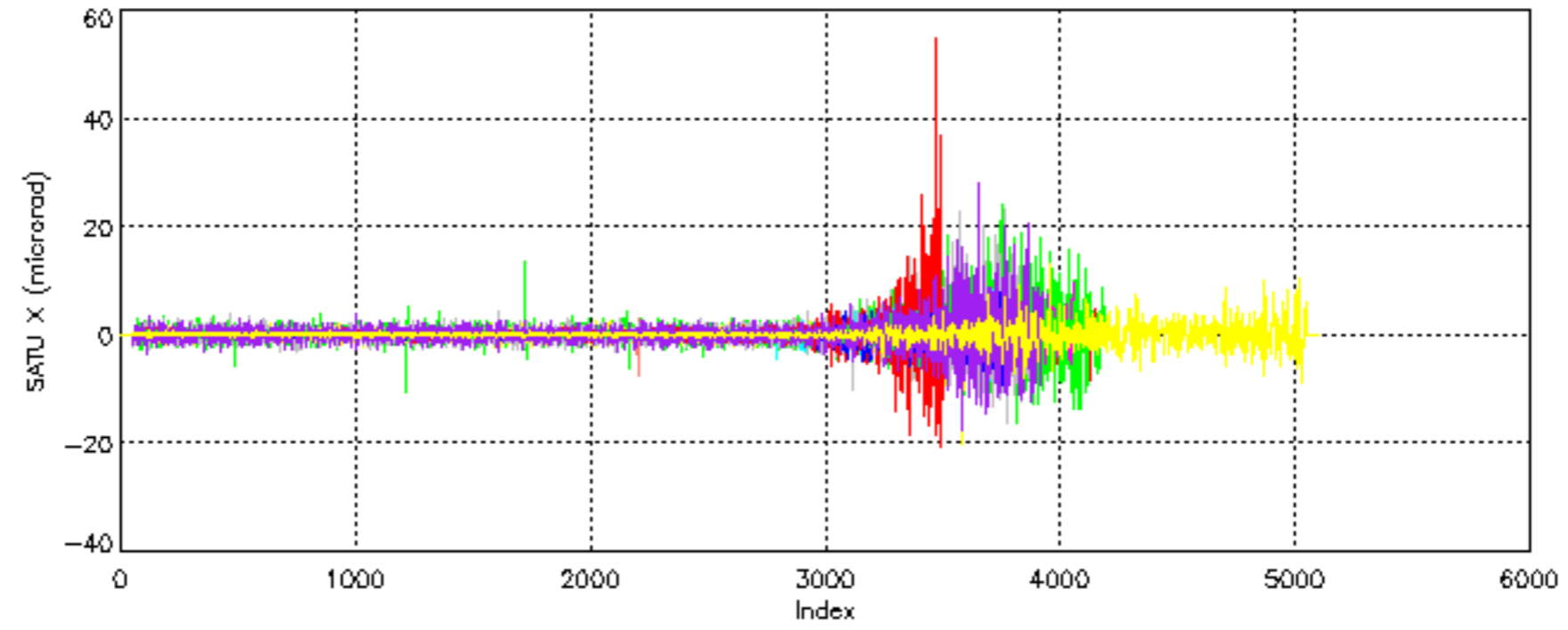


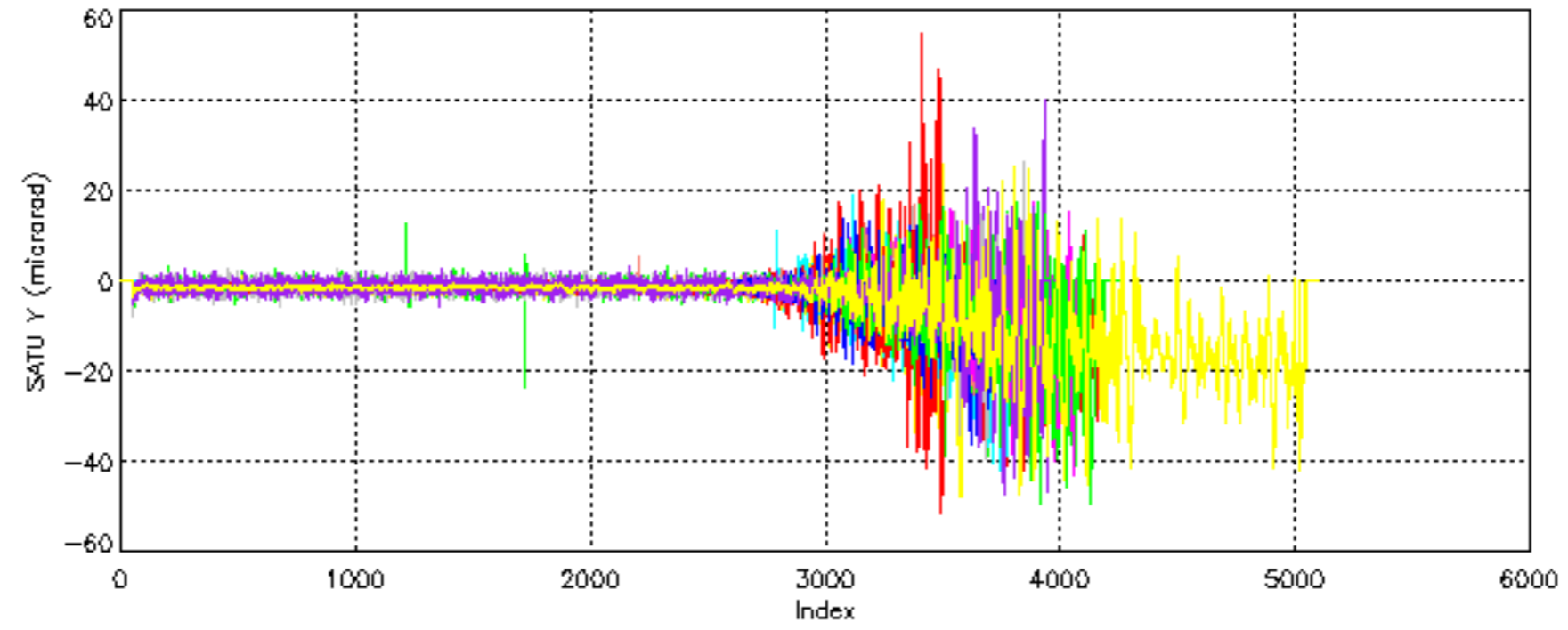
Tangent altitude at which the star is lost

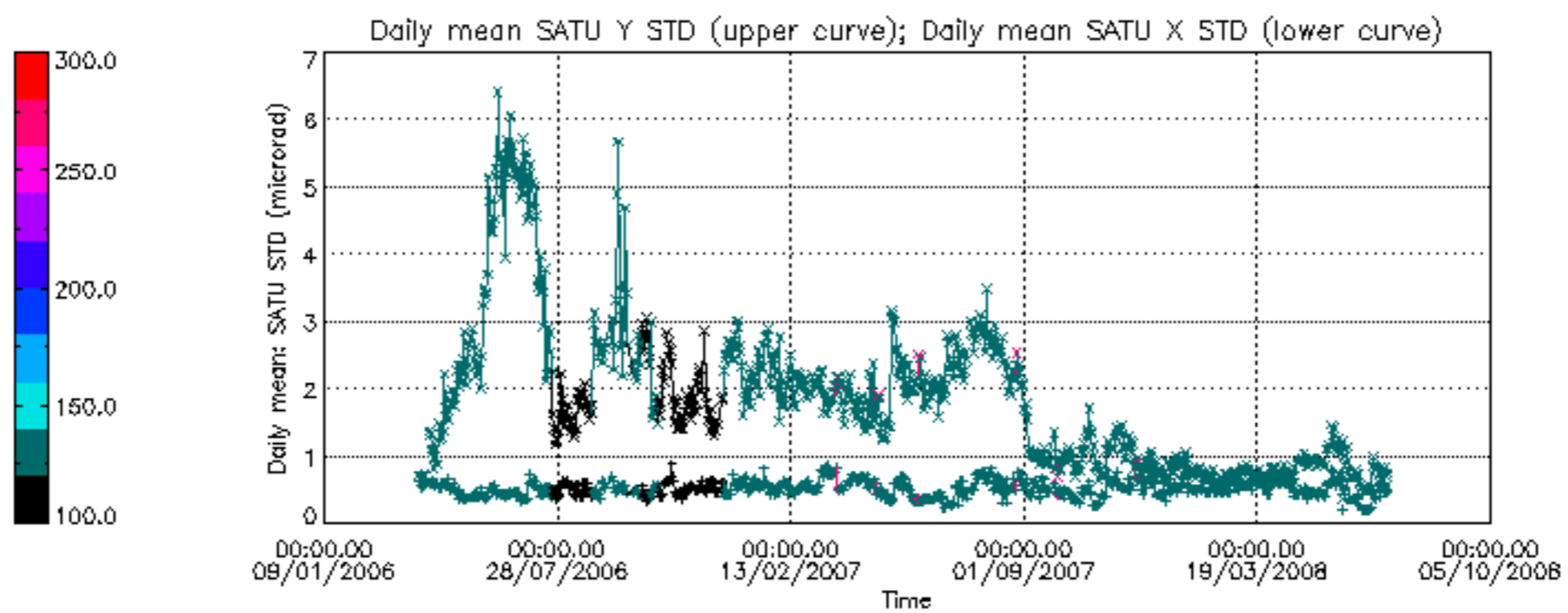


Tangent altitude at which the star is lost









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 7; 1982.1; 01-JUL-2008 20:20:20; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;33134  
 8; 2121.6; 01-JUL-2008 20:22:40; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33134  
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 10; 2449.5; 01-JUL-2008 20:28:08; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33134  
 11; 2806.8; 01-JUL-2008 20:34:05; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33134  
 12; 2953.3; 01-JUL-2008 20:36:31; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33134  
 13; 3194.0; 01-JUL-2008 20:40:32; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;33134  
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 15; 4062.2; 01-JUL-2008 20:55:00; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;33134  
 16; 4166.6; 01-JUL-2008 20:56:45; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;33134  
 17; 4295.5; 01-JUL-2008 20:58:54; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;33134  
 18; 4582.1; 01-JUL-2008 21:03:40; Dark ; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;33134  
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 23; 4295.6; 01-JUL-2008 22:39:29; Bright; 38.5; 79; 26Bet Per ; 2.31; 13100;occ; 77; 0;33135  
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 18; 3194.3; 02-JUL-2008 00:01:44; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33136  
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 5; 1174.1; 01-JUL-2008 10:03:17; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33128
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 4; 2122.5; 01-JUL-2008 10:19:05; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33128
 5; 2286.2; 01-JUL-2008 10:21:49; Bright; 33.5; 127; 27Bet Her ; 2.78; 4700;occ; 67; 0;33128
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 4; 2121.7; 01-JUL-2008 11:59:40; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;33129
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15; 5204.4; 01-JUL-2008 12:51:03; Dark ; 42.5; 165; 34Gam Eri ; 2.95; 3200;occ; 85; 0;33129
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23; 7209.8; 01-JUL-2008 13:24:28; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;33129
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16; 5204.8; 01-JUL-2008 14:31:39; Dark ; 42.0; 165; 34Gam Eri ; 2.95; 3200;occ; 84; 0;33130
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23; 7101.7; 01-JUL-2008 15:03:16; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;33130
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12; 5205.2; 01-JUL-2008 16:12:15; Dark ; 42.5; 165; 34Gam Eri ; 2.95; 3200;occ; 85; 0;33131
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16; 6355.4; 01-JUL-2008 16:31:25; Dark ; 35.5; 135; Bet Hyi ; 2.82; 5800;occ; 71; 0;33131
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7; 2286.1; 01-JUL-2008 17:04:12; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;33132
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13; 4062.3; 01-JUL-2008 17:33:48; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;33132

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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20080701\_150845\_000058532070\_00011\_33131\_1393.N1

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16; 6358.0; 02-JUL-2008 12:38:39; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;33143
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7; 1982.1; 02-JUL-2008 19:48:44; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;33148
8; 2121.1; 02-JUL-2008 19:51:02; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33148
9; 2288.6; 02-JUL-2008 19:53:50; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33148
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14; 3445.3; 02-JUL-2008 20:13:07; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33148
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17; 4296.1; 02-JUL-2008 20:27:17; Bright; 28.0; 79; 26Bet Per ; 2.31; 13100;occ; 56; 0;33148
18; 4584.8; 02-JUL-2008 20:32:06; Dark ; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;33148
19; 4991.2; 02-JUL-2008 20:38:53; Dark ; 47.0; 94; 92Alp Cet ; 2.53; 3100;occ; 94; 0;33148
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22; 6087.8; 02-JUL-2008 20:57:09; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;33148
23; 6359.0; 02-JUL-2008 21:01:40; Dark ; 35.5; 135; Bet Hyi ; 2.82; 5800;occ; 71; 0;33148
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5; 502.9; 02-JUL-2008 22:45:16; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;33150
6; 761.2; 02-JUL-2008 22:49:34; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33150
7; 1069.1; 02-JUL-2008 22:54:42; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;33150
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6; 1069.2; 03-JUL-2008 00:35:18; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;33151
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13; 2121.0; 03-JUL-2008 00:52:50; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;33151
14; 2289.0; 03-JUL-2008 00:55:38; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;33151
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17; 2954.1; 03-JUL-2008 01:06:43; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33151

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16; 1648.6; 03-JUL-2008 04:06:10; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33153
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12; 1178.8; 03-JUL-2008 05:38:56; Dark ; 38.0; 40; The Sco ; 1.86; 7100;occ; 76; 0;33154
13; 1278.4; 03-JUL-2008 05:40:35; Dark ; 38.5; 25; 35Lam Sco ; 1.62; 28000;occ; 77; 0;33154
14; 1364.2; 03-JUL-2008 05:42:01; Dark ; 43.5; 116; 19Del Sgr ; 2.70; 4100;occ; 87; 0;33154

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11; 1070.2; 03-JUL-2008 07:17:43; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;33155
12; 1178.9; 03-JUL-2008 07:19:32; Dark ; 39.5; 40; The Sco ; 1.86; 7100;occ; 79; 0;33155
13; 1278.6; 03-JUL-2008 07:21:11; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;33155
14; 1364.4; 03-JUL-2008 07:22:37; Dark ; 48.0; 116; 19Del Sgr ; 2.70; 4100;occ; 96; 0;33155
15; 1435.9; 03-JUL-2008 07:23:49; Bright; 39.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 79; 0;33155
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11; 4586.2; 03-JUL-2008 08:16:19; Dark ; 38.5; 146; 25Eta Tau ; 2.87; 15200;occ; 77; 0;33155
12; 5212.0; 03-JUL-2008 08:26:45; Dark ; 43.5; 165; 34Gam Eri ; 2.95; 3200;occ; 87; 0;33155
13; 5548.5; 03-JUL-2008 08:32:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33155
14; 5722.1; 03-JUL-2008 08:35:15; Dark ; 36.5; 157; The1Eri ; 2.91; 9300;occ; 73; 0;33155
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16; 6360.8; 03-JUL-2008 08:45:54; Dark ; 36.0; 135; Bet Hyi ; 2.82; 5800;occ; 72; 0;33155
17; 6542.5; 03-JUL-2008 08:48:55; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33155
18; 6800.0; 03-JUL-2008 08:53:13; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;33155
19; 7106.2; 03-JUL-2008 08:58:19; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;33155
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22; 7400.5; 03-JUL-2008 09:03:13; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;33155
23; 7472.1; 03-JUL-2008 09:04:25; Bright; 54.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 108; 0;33155
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13; 5212.3; 03-JUL-2008 10:07:21; Dark ; 42.5; 165; 34Gam Eri ; 2.95; 3200;occ; 85; 0;33156
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23; 7400.8; 03-JUL-2008 10:43:50; Dark ; 48.5; 116; 19Del Sgr ; 2.70; 4100;occ; 97; 0;33156
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14; 5212.6; 03-JUL-2008 11:47:57; Dark ; 41.5; 165; 34Gam Eri ; 2.95; 3200;occ; 83; 0;33157
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21; 7106.5; 03-JUL-2008 12:19:31; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;33157
22; 7215.3; 03-JUL-2008 12:21:20; Dark ; 40.0; 40; The Sco ; 1.86; 7100;occ; 80; 0;33157
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22; 7106.7; 03-JUL-2008 14:00:07; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;33158
23; 7215.6; 03-JUL-2008 14:01:56; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33158
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17; 2802.7; 03-JUL-2008 22:51:59; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68; 0;33164
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19; 3198.5; 03-JUL-2008 22:58:35; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33164
20; 3445.2; 03-JUL-2008 23:02:41; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;33164
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22; 4167.5; 03-JUL-2008 23:14:44; Bright; 54.0; 175; 39Del Per ; 3.01; 19400;occ; 108; 0;33164
23; 4302.3; 03-JUL-2008 23:16:59; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;33164
24; 4446.8; 03-JUL-2008 23:19:23; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;33164
25; 4587.8; 03-JUL-2008 23:21:44; Dark ; 42.5; 146; 25Eta Tau ; 2.87; 15200;occ; 85; 0;33164
26; 5214.9; 03-JUL-2008 23:32:11; Dark ; 36.0; 165; 34Gam Eri ; 2.95; 3200;occ; 72; 0;33164
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5; 768.1; 03-JUL-2008 23:58:40; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33165
6; 1071.6; 04-JUL-2008 00:03:44; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;33165
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8; 1280.3; 04-JUL-2008 00:07:12; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33165
9; 1366.4; 04-JUL-2008 00:08:39; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;33165
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11; 1982.3; 04-JUL-2008 00:18:54; Bright; 35.5; 126; 60Bet Oph ; 2.77; 4250;occ; 71; 0;33165
12; 2120.9; 04-JUL-2008 00:21:13; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;33165
13; 2291.4; 04-JUL-2008 00:24:04; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;33165
14; 2452.5; 04-JUL-2008 00:26:45; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;33165
15; 2802.6; 04-JUL-2008 00:32:35; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;33165
16; 2954.8; 04-JUL-2008 00:35:07; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33165
17; 3198.7; 04-JUL-2008 00:39:11; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;33165
18; 3445.1; 04-JUL-2008 00:43:17; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;33165
19; 4059.8; 04-JUL-2008 00:53:32; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98; 0;33165
20; 4167.6; 04-JUL-2008 00:55:20; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0;33165
21; 4302.5; 04-JUL-2008 00:57:35; Bright; 41.0; 149; 45Eps Per ; 2.89; 30000;occ; 82; 0;33165
22; 4446.9; 04-JUL-2008 00:59:59; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;33165
23; 4587.9; 04-JUL-2008 01:02:20; Dark ; 41.0; 146; 25Eta Tau ; 2.87; 15200;occ; 82; 0;33165
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2; 1365.5; 03-JUL-2008 15:45:38; Dark ; 45.5; 116; 19Del Sgr ; 2.70; 4100;occ; 91; 0;33160
3; 1649.5; 03-JUL-2008 15:50:22; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33160
4; 1982.2; 03-JUL-2008 15:55:55; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;33160
5; 2121.0; 03-JUL-2008 15:58:13; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33160
6; 2290.8; 03-JUL-2008 16:01:03; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33160
7; 2452.1; 03-JUL-2008 16:03:44; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;33160
8; 2803.4; 03-JUL-2008 16:09:36; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;33160
9; 2954.9; 03-JUL-2008 16:12:07; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;33160
10; 3198.0; 03-JUL-2008 16:16:10; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;33160
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12; 4060.3; 03-JUL-2008 16:30:33; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;33160
13; 4167.5; 03-JUL-2008 16:32:20; Bright; 34.5; 175; 39Del Per ; 3.01; 19400;occ; 69; 0;33160
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15; 4446.4; 03-JUL-2008 16:36:59; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;33160
16; 4587.2; 03-JUL-2008 16:39:20; Dark ; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;33160
17; 5213.7; 03-JUL-2008 16:49:46; Dark ; 41.5; 165; 34Gam Eri ; 2.95; 3200;occ; 83; 0;33160
18; 5549.8; 03-JUL-2008 16:55:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33160
19; 5724.4; 03-JUL-2008 16:58:17; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;33160
20; 6362.1; 03-JUL-2008 17:08:54; Dark ; 35.5; 135; Bet Hyi ; 2.82; 5800;occ; 71; 0;33160
21; 6545.5; 03-JUL-2008 17:11:58; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33160
22; 6802.5; 03-JUL-2008 17:16:15; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33160
23; 7107.2; 03-JUL-2008 17:21:20; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;33160
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3; 1279.6; 03-JUL-2008 17:24:48; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;33161
4; 1365.7; 03-JUL-2008 17:26:14; Dark ; 50.0; 116; 19Del Sgr ; 2.70; 4100;occ; 100; 0;33161
5; 1649.7; 03-JUL-2008 17:30:58; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;33161
6; 1982.2; 03-JUL-2008 17:36:31; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;33161
7; 2121.0; 03-JUL-2008 17:38:49; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;33161
8; 2290.8; 03-JUL-2008 17:41:39; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33161
9; 2452.1; 03-JUL-2008 17:44:21; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;33161
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11; 2954.7; 03-JUL-2008 17:52:43; Bright; 52.0; 119; 14Eta Dra ; 2.73; 4700;occ; 104; 0;33161
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14; 4060.2; 03-JUL-2008 18:11:09; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;33161
15; 4167.4; 03-JUL-2008 18:12:56; Bright; 35.5; 175; 39Del Per ; 3.01; 19400;occ; 71; 0;33161
16; 4302.1; 03-JUL-2008 18:15:11; Bright; 54.0; 149; 45Eps Per ; 2.89; 30000;occ; 108; 0;33161
17; 4446.4; 03-JUL-2008 18:17:35; Bright; 37.0; 150; 44Zet Per ; 2.89; 28000;occ; 74; 0;33161
18; 4587.3; 03-JUL-2008 18:19:56; Dark ; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;33161
19; 5214.0; 03-JUL-2008 18:30:22; Dark ; 38.5; 165; 34Gam Eri ; 2.95; 3200;occ; 77; 0;33161
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```

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21; 5725.0; 03-JUL-2008 18:38:53; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;33161
22; 6094.6; 03-JUL-2008 18:45:03; Dark ; 41.5; 9; Alp Eri ; 0.45; 24000;occ; 83; 0;33161
23; 6362.1; 03-JUL-2008 18:49:31; Dark ; 36.0; 135; Bet Hyi ; 2.82; 5800;occ; 72; 0;33161
24; 6546.0; 03-JUL-2008 18:52:34; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;33161
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13; 3445.2; 03-JUL-2008 19:41:30; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33162
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15; 4167.5; 03-JUL-2008 19:53:32; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;33162
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 5; 512.3; 04-JUL-2008 01:35:00; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33166
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 7; 1071.9; 04-JUL-2008 01:44:20; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;33166
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16; 2802.6; 04-JUL-2008 02:13:11; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;33166
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 8; -308.1; 04-JUL-2008 04:42:32; Dark ; 41.5; 157; The1Eri ; 2.91; 9300;occ; 83; 0;33167
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11; 513.6; 04-JUL-2008 04:56:14; Dark ; 44.0; 148; Alp Tuc ; 2.88; 4100;occ; 88; 0;33168
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13; 1072.5; 04-JUL-2008 05:05:32; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;33168
14; 1181.5; 04-JUL-2008 05:07:21; Dark ; 40.5; 40; The Sco ; 1.86; 7100;occ; 81; 0;33168
15; 1281.1; 04-JUL-2008 05:09:01; Dark ; 39.5; 25; 35Lam Sco ; 1.62; 28000;occ; 79; 0;33168
16; 1367.3; 04-JUL-2008 05:10:27; Dark ; 43.0; 116; 19Del Sgr ; 2.70; 4100;occ; 86; 0;33168

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17; 1650.9; 04-JUL-2008 05:15:11; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;33168
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21; 2452.9; 04-JUL-2008 05:28:33; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;33168
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12; 3445.1; 04-JUL-2008 20:50:29; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33177
13; 4059.1; 04-JUL-2008 21:00:43; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;33177
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15; 4303.5; 04-JUL-2008 21:04:47; Bright; 33.5; 149; 45Eps Per ; 2.89; 30000;occ; 67; 0;33177
16; 4448.7; 04-JUL-2008 21:07:12; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;33177
17; 4590.6; 04-JUL-2008 21:09:34; Dark ; 40.0; 146; 25Eta Tau ; 2.87; 15200;occ; 80; 0;33177
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10; 327.9; 04-JUL-2008 06:33:44; Dark ; 36.0; 135; Bet Hyi ; 2.82; 5800;occ; 72; 0;33169
11; 514.2; 04-JUL-2008 06:36:50; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33169
12; 770.1; 04-JUL-2008 06:41:06; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;33169
13; 1072.5; 04-JUL-2008 06:46:08; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;33169
14; 1181.5; 04-JUL-2008 06:47:57; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33169
15; 1281.3; 04-JUL-2008 06:49:37; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;33169
16; 1367.6; 04-JUL-2008 06:51:04; Dark ; 45.5; 116; 19Del Sgr ; 2.70; 4100;occ; 91; 0;33169
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12; 4447.5; 04-JUL-2008 07:42:23; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;33169
13; 4588.9; 04-JUL-2008 07:44:45; Dark ; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;33169
14; 5216.4; 04-JUL-2008 07:55:12; Dark ; 43.0; 165; 34Gam Eri ; 2.95; 3200;occ; 86; 0;33169
15; 5551.9; 04-JUL-2008 08:00:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33169
16; 5728.8; 04-JUL-2008 08:03:45; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;33169
17; 6098.8; 04-JUL-2008 08:09:55; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;33169
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21; 7108.8; 04-JUL-2008 08:26:45; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;33169

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22; 7217.7; 04-JUL-2008 08:28:34; Dark ; 39.5; 40; The Sco ; 1.86; 7100;occ; 79; 0;33169
23; 7317.4; 04-JUL-2008 08:30:13; Dark ; 39.5; 25; 35Lam Sco ; 1.62; 28000;occ; 79; 0;33169
24; 7403.7; 04-JUL-2008 08:31:40; Dark ; 44.5; 116; 19Del Sgr ; 2.70; 4100;occ; 89; 0;33169
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14; 5216.7; 04-JUL-2008 09:35:49; Dark ; 41.5; 165; 34Gam Eri ; 2.95; 3200;occ; 83; 0;33170
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22; 7217.8; 04-JUL-2008 10:09:10; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;33170
23; 7317.5; 04-JUL-2008 10:10:49; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33170
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22; 7317.6; 04-JUL-2008 11:51:25; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;33171
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11; 4167.8; 04-JUL-2008 12:39:31; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;33172
12; 4303.1; 04-JUL-2008 12:41:47; Bright; 34.5; 149; 45Eps Per ; 2.89; 30000;occ; 69; 0;33172

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15; 5217.5; 04-JUL-2008 12:57:01; Dark ; 41.5; 165; 34Gam Eri ; 2.95; 3200;occ; 83; 0;33172
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23; 7317.9; 04-JUL-2008 13:32:02; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33172
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21; 6808.4; 04-JUL-2008 15:04:08; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;33173
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11; 4059.4; 04-JUL-2008 15:58:55; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;33174
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13; 4303.4; 04-JUL-2008 16:02:59; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0;33174
14; 4448.5; 04-JUL-2008 16:05:24; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;33174
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16; 5218.3; 04-JUL-2008 16:18:14; Dark ; 41.5; 165; 34Gam Eri ; 2.95; 3200;occ; 83; 0;33174
17; 5553.2; 04-JUL-2008 16:23:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33174
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22; 6809.0; 04-JUL-2008 16:44:44; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;33174
23; 7218.7; 04-JUL-2008 16:51:34; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;33174
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13; 4168.2; 04-JUL-2008 17:41:20; Bright; 33.5; 175; 39Del Per ; 3.01; 19400;occ; 67; 0;33175  
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6; 519.5; 04-JUL-2008 21:42:19; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;33178  
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16; 2801.4; 04-JUL-2008 22:20:21; Bright; 53.0; 130; 23Bet Dra ; 2.80; 5800;occ; 106; 0;33178  
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21; 4168.0; 04-JUL-2008 22:43:07; Bright; 54.0; 175; 39Del Per ; 3.01; 19400;occ; 108; 0;33178  
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24; 4590.6; 04-JUL-2008 22:50:10; Dark ; 38.5; 146; 25Eta Tau ; 2.87; 15200;occ; 77; 0;33178

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4; -480.4; 05-JUL-2008 07:29:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33183  
5; -300.3; 05-JUL-2008 07:32:15; Dark ; 39.0; 157; The1Eri ; 2.91; 9300;occ; 78; 0;33183  
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```

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9; 3202.1; 05-JUL-2008 11:51:49; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33186
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11; 4304.3; 05-JUL-2008 12:10:11; Bright; 34.0; 149; 45Eps Per ; 2.89; 30000;occ; 68; 0;33186
12; 5222.0; 05-JUL-2008 12:25:29; Dark ; 44.5; 165; 34Gam Eri ; 2.95; 3200;occ; 89; 0;33186
13; 5556.3; 05-JUL-2008 12:31:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33186
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16; 6367.9; 05-JUL-2008 12:44:35; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;33186
17; 6814.2; 05-JUL-2008 12:52:01; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;33186
18; 7022.2; 05-JUL-2008 12:55:29; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;33186
19; 7111.3; 05-JUL-2008 12:56:58; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;33186
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21; 7320.5; 05-JUL-2008 13:00:27; Dark ; 39.5; 25; 35Lam Sco ; 1.62; 28000;occ; 79; 0;33186
22; 7407.2; 05-JUL-2008 13:01:54; Dark ; 43.0; 116; 19Del Sgr ; 2.70; 4100;occ; 86; 0;33186
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8; 2956.8; 05-JUL-2008 13:28:19; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;33187
9; 3202.3; 05-JUL-2008 13:32:25; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;33187
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14; 5737.7; 05-JUL-2008 14:14:40; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;33187
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3; 1761.7; 05-JUL-2008 14:49:00; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;33188
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7; 2455.5; 05-JUL-2008 15:00:34; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;33188
8; 2800.4; 05-JUL-2008 15:06:19; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;33188
9; 2956.9; 05-JUL-2008 15:08:55; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33188
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12; 4304.6; 05-JUL-2008 15:31:23; Bright; 54.0; 149; 45Eps Per ; 2.89; 30000;occ; 108; 0;33188
13; 5222.9; 05-JUL-2008 15:46:41; Dark ; 42.5; 165; 34Gam Eri ; 2.95; 3200;occ; 85; 0;33188
14; 5556.9; 05-JUL-2008 15:52:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33188
15; 5738.2; 05-JUL-2008 15:55:17; Dark ; 39.0; 157; The1Eri ; 2.91; 9300;occ; 78; 0;33188
16; 6109.1; 05-JUL-2008 16:01:28; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;33188
17; 6368.6; 05-JUL-2008 16:05:47; Dark ; 36.0; 135; Bet Hyi ; 2.82; 5800;occ; 72; 0;33188
18; 6815.2; 05-JUL-2008 16:13:14; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;33188
19; 7022.6; 05-JUL-2008 16:16:41; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;33188
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2; 1371.9; 05-JUL-2008 16:23:06; Dark ; 51.0; 116; 19Del Sgr ; 2.70; 4100;occ; 102; 0;33189
3; 1467.6; 05-JUL-2008 16:24:42; Bright; 36.0; 136; 23Tau Sco ; 2.82; 30000;occ; 72; 0;33189

```

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4; 1654.4; 05-JUL-2008 16:27:49; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33189
5; 1761.9; 05-JUL-2008 16:29:36; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0;33189
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7; 2121.1; 05-JUL-2008 16:35:36; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33189
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9; 2455.7; 05-JUL-2008 16:41:10; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;33189
10; 2800.4; 05-JUL-2008 16:46:55; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;33189
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13; 3445.1; 05-JUL-2008 16:57:40; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33189
14; 4304.6; 05-JUL-2008 17:11:59; Bright; 33.5; 149; 45Eps Per ; 2.89; 30000;occ; 67; 0;33189
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 3; 1285.1; 05-JUL-2008 18:02:16; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;33190
 4; 1372.1; 05-JUL-2008 18:03:43; Dark ; 46.5; 116; 19Del Sgr ; 2.70; 4100;occ; 93; 0;33190
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13; 3202.8; 05-JUL-2008 18:34:13; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;33190
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13; 2121.0; 05-JUL-2008 01:30:12; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;33180
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4; -480.9; 05-JUL-2008 04:08:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33181  
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13; 1466.4; 05-JUL-2008 04:40:29; Bright; 37.0; 136; 23Tau Sco ; 2.82; 30000;occ; 74; 0;33182  
14; 1653.3; 05-JUL-2008 04:43:36; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;33182  
15; 1760.4; 05-JUL-2008 04:45:23; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;33182  
16; 1982.8; 05-JUL-2008 04:49:06; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;33182  
17; 2121.1; 05-JUL-2008 04:51:24; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;33182  
18; 2294.9; 05-JUL-2008 04:54:18; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;33182  
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21; 2956.4; 05-JUL-2008 05:05:19; Bright; 32.5; 119; 14Eta Dra ; 2.73; 4700;occ; 65; 0;33182  
22; 3201.5; 05-JUL-2008 05:09:24; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33182  
23; 3445.1; 05-JUL-2008 05:13:28; Bright; 31.5; 49; 1Alp UMi ; 1.99; 6300;occ; 63; 0;33182  
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2; -1586.5; 05-JUL-2008 05:30:12; Dark ; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;33182  
3; -815.3; 05-JUL-2008 05:43:04; Dark ; 44.0; 165; 34Gam Eri ; 2.95; 3200;occ; 88; 0;33182  
4; -480.6; 05-JUL-2008 05:48:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33182  
5; -300.9; 05-JUL-2008 05:51:38; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;33182  
6; 69.8; 05-JUL-2008 05:57:49; Dark ; 49.5; 9; Alp Eri ; 0.45; 24000;occ; 99; 0;33183  
7; 331.2; 05-JUL-2008 06:02:10; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;33183  
8; 776.6; 05-JUL-2008 06:09:36; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33183  
9; 985.8; 05-JUL-2008 06:13:05; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;33183  
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11; 1184.2; 05-JUL-2008 06:16:23; Dark ; 40.5; 40; The Sco ; 1.86; 7100;occ; 81; 0;33183  
12; 1283.9; 05-JUL-2008 06:18:03; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33183  
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19; 2295.2; 05-JUL-2008 06:34:54; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;33183  
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21; 2800.9; 05-JUL-2008 06:43:20; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33183  
22; 2956.5; 05-JUL-2008 06:45:55; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;33183  
23; 3201.7; 05-JUL-2008 06:50:01; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33183  
24; 3445.1; 05-JUL-2008 06:54:04; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33183  
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3; 1185.5; 05-JUL-2008 19:41:12; Dark ; 40.5; 40; The Sco ; 1.86; 7100;occ; 81; 0;33191  
4; 1285.3; 05-JUL-2008 19:42:52; Dark ; 39.5; 25; 35Lam Sco ; 1.62; 28000;occ; 79; 0;33191  
5; 1372.2; 05-JUL-2008 19:44:19; Dark ; 43.0; 116; 19Del Sgr ; 2.70; 4100;occ; 86; 0;33191  
6; 1467.9; 05-JUL-2008 19:45:54; Bright; 36.0; 136; 23Tau Sco ; 2.82; 30000;occ; 72; 0;33191  
7; 1654.6; 05-JUL-2008 19:49:01; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33191  
8; 1762.2; 05-JUL-2008 19:50:49; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;33191  
9; 1983.0; 05-JUL-2008 19:54:30; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;33191  
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12; 2455.9; 05-JUL-2008 20:02:22; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;33191  
13; 2800.1; 05-JUL-2008 20:08:07; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33191  
14; 2957.2; 05-JUL-2008 20:10:44; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33191  
15; 3202.9; 05-JUL-2008 20:14:49; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;33191  
16; 3445.0; 05-JUL-2008 20:18:52; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33191  
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3; -296.3; 05-JUL-2008 20:57:06; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;33191  
4; 74.5; 05-JUL-2008 21:03:17; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;33192  
5; 333.2; 05-JUL-2008 21:07:36; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;33192  
6; 780.5; 05-JUL-2008 21:15:03; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;33192  
7; 986.9; 05-JUL-2008 21:18:29; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;33192  
8; 1076.2; 05-JUL-2008 21:19:59; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;33192  
9; 1185.7; 05-JUL-2008 21:21:48; Dark ; 40.0; 40; The Sco ; 1.86; 7100;occ; 80; 0;33192  
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11; 1372.4; 05-JUL-2008 21:24:55; Dark ; 41.0; 116; 19Del Sgr ; 2.70; 4100;occ; 82; 0;33192  
12; 1467.9; 05-JUL-2008 21:26:30; Bright; 35.0; 136; 23Tau Sco ; 2.82; 30000;occ; 70; 0;33192  
13; 1654.8; 05-JUL-2008 21:29:37; Bright; 35.5; 86; 35Eta Oph ; 2.43; 10200;occ; 71; 0;33192  
14; 1762.3; 05-JUL-2008 21:31:25; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33192  
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16; 2121.0; 05-JUL-2008 21:37:23; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;33192  
17; 2296.9; 05-JUL-2008 21:40:19; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33192  
18; 2455.9; 05-JUL-2008 21:42:58; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;33192  
19; 2800.0; 05-JUL-2008 21:48:42; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;33192  
20; 2957.2; 05-JUL-2008 21:51:20; Bright; 32.5; 119; 14Eta Dra ; 2.73; 4700;occ; 65; 0;33192  
21; 3203.1; 05-JUL-2008 21:55:25; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;33192  
22; 3445.0; 05-JUL-2008 21:59:27; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33192  
23; 4304.7; 05-JUL-2008 22:13:47; Bright; 26.0; 149; 45Eps Per ; 2.89; 30000;occ; 52; 0;33192  
24; 5224.1; 05-JUL-2008 22:29:07; Dark ; 43.0; 165; 34Gam Eri ; 2.95; 3200;occ; 86; 0;33192

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20080705\_223440\_000057442070\_00072\_33192\_6064.N1

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3; 75.1; 05-JUL-2008 22:43:53; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;33193  
4; 333.4; 05-JUL-2008 22:48:12; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;33193  
5; 780.9; 05-JUL-2008 22:55:39; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;33193  
6; 987.0; 05-JUL-2008 22:59:05; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;33193  
7; 1076.5; 05-JUL-2008 23:00:35; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;33193  
8; 1185.9; 05-JUL-2008 23:02:24; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33193  
9; 1285.4; 05-JUL-2008 23:04:04; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33193  
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11; 1468.0; 05-JUL-2008 23:07:06; Bright; 36.5; 136; 23Tau Sco ; 2.82; 30000;occ; 73; 0;33193  
12; 1654.9; 05-JUL-2008 23:10:13; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;33193  
13; 1762.4; 05-JUL-2008 23:12:01; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0;33193  
14; 1983.0; 05-JUL-2008 23:15:41; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;33193  
15; 2121.1; 05-JUL-2008 23:17:59; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;33193  
16; 2297.2; 05-JUL-2008 23:20:55; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33193  
17; 2456.1; 05-JUL-2008 23:23:34; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;33193  
18; 2799.9; 05-JUL-2008 23:29:18; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68; 0;33193  
19; 2957.3; 05-JUL-2008 23:31:56; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;33193  
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21; 3444.9; 05-JUL-2008 23:40:03; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;33193  
22; 4304.7; 05-JUL-2008 23:54:23; Bright; 26.0; 149; 45Eps Per ; 2.89; 30000;occ; 52; 0;33193  
23; 5224.3; 06-JUL-2008 00:09:43; Dark ; 42.0; 165; 34Gam Eri ; 2.95; 3200;occ; 84; 0;33193

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20080706\_001012\_000042592070\_00073\_33193\_5924.N1

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7; 987.1; 06-JUL-2008 00:39:41; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;33194  
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3; -294.7; 06-JUL-2008 01:58:55; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;33194  
4; 76.2; 06-JUL-2008 02:05:06; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;33195  
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16; 2456.5; 06-JUL-2008 02:44:47; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33195  
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```

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8; 2959.8; 07-JUL-2008 15:46:20; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;33217  
9; 3207.5; 07-JUL-2008 15:50:28; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;33217  
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17; 6375.9; 07-JUL-2008 18:23:52; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;33218  
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5; 1081.0; 07-JUL-2008 23:38:01; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;33222  
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14; 2797.7; 08-JUL-2008 00:06:38; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;33222  
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16; 3208.4; 08-JUL-2008 00:13:29; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;33222  
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6; 1081.2; 08-JUL-2008 01:18:37; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;33223  
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5; 341.0; 08-JUL-2008 02:46:53; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;33224  
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7; 795.7; 08-JUL-2008 06:15:40; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;33226
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 7; 794.9; 26-JUL-2008 01:48:21; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;33481  
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 18; 2715.8; 26-JUL-2008 04:00:58; Bright; 57.0; 144; 18Del Cyg ; 2.86; 11000;occ; 114; 0;33482  
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 5; 2712.8; 26-JUL-2008 20:46:54; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;33492  
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12; 3122.6; 26-JUL-2008 22:34:20; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;33493
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22; 5150.1; 27-JUL-2008 22:36:30; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;33507
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