

# GOMOS Daily Report 25-AUG-2007

## Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	27AUG2007 09:24:06
Data source version	GOMOS/5.00
Start time of products	25-08-2007 (25AUG2007 00:00:00)
Stop time of products	26-08-2007 (26AUG2007 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)

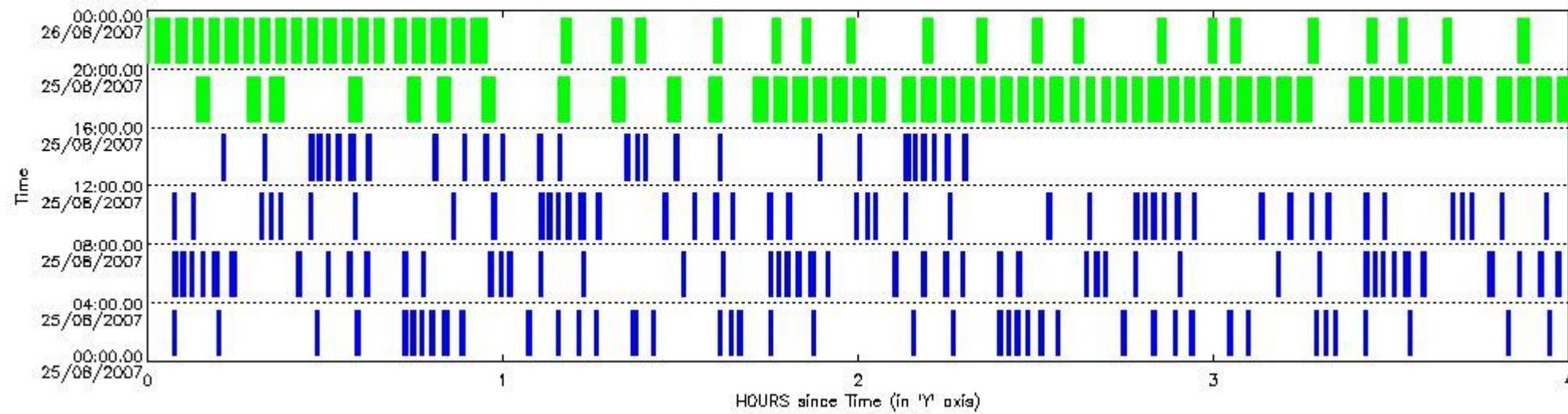
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

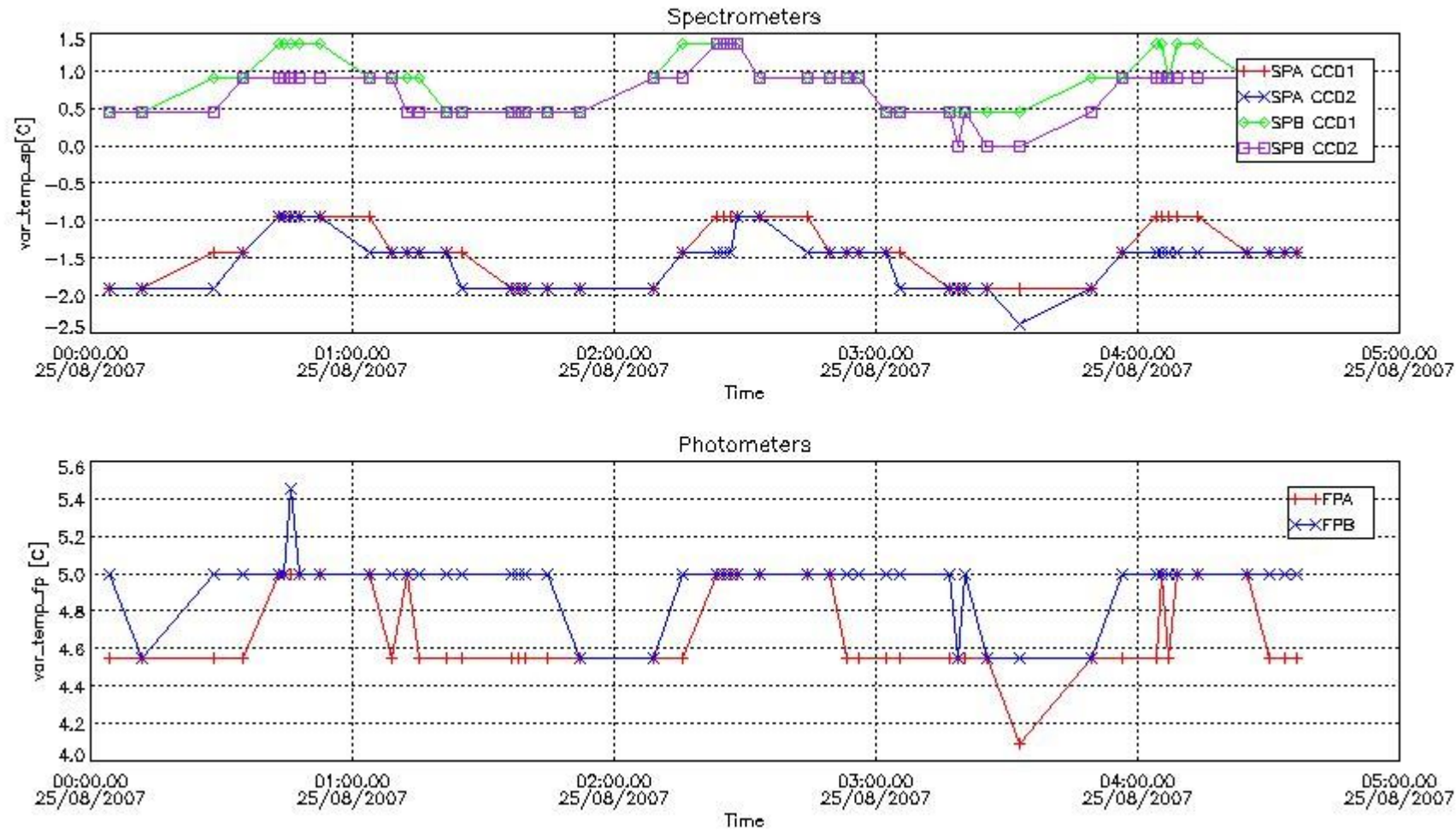
No missing products.

### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20070825_000410_000000402061_00059_28670_0107.N1	25-AUG-2007 00:04:10	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	28670	No
2	GOM_TRA_1PNPDE20070825_001137_000000372061_00059_28670_0108.N1	25-AUG-2007 00:11:37	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	28670	No
3	GOM_TRA_1PNPDE20070825_002818_000000352061_00059_28670_0109.N1	25-AUG-2007 00:28:18	Bright	34.500	24	66Alp Gem	1.5800	10200.	69	28670	No
4	GOM_TRA_1PNPDE20070825_003505_000000392061_00059_28670_0110.N1	25-AUG-2007 00:35:05	Twilight	38.500	153	3Bet CMi	2.8940	13100.	77	28670	No
5	GOM_TRA_1PNPDE20070825_004257_000000472061_00059_28670_0111.N1	25-AUG-2007 00:42:57	Dark	47.000	1	9Alp CMa	-1.4400	11000.	94	28670	No
6	GOM_TRA_1PNPDE20070825_004424_000000382061_00059_28670_0247.N1	25-AUG-2007 00:44:24	Dark	38.000	179	24Omi2CMa	3.0320	24000.	76	28670	No
7	GOM_TRA_1PNPDE20070825_004552_000000412061_00059_28670_0248.N1	25-AUG-2007 00:45:52	Dark	41.000	23	21Eps CMa	1.5020	26000.	82	28670	No
8	GOM_TRA_1PNPDE20070825_004739_000000412061_00059_28670_0249.N1	25-AUG-2007 00:47:39	Dark	40.500	117	Pi Pup	2.7060	3800.0	81	28670	No
9	GOM_TRA_1PNPDE20070825_005242_000000452061_00059_28670_0250.N1	25-AUG-2007 00:52:42	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	28670	No
10	GOM_TRA_1PNPDE20070825_010353_000000552061_00060_28671_0251.N1	25-AUG-2007 01:03:53	Dark	55.000	9	Alp Eri	0.45300	24000.	110	28671	No
11	GOM_TRA_1PNPDE20070825_010854_000000392061_00060_28671_0252.N1	25-AUG-2007 01:08:54	Straylight	38.500	148	Alp Tuc	2.8780	4100.0	77	28671	No
12	GOM_TRA_1PNPDE20070825_011232_000000382061_00060_28671_0253.N1	25-AUG-2007 01:12:32	Straylight	37.500	31	Alp Gru	1.7340	15200.	75	28671	No

13	GOM_TRA_1PNPDE20070825_011525_000000392061_00060_28671_0254.N1	25-AUG-2007 01:15:25	Straylight	38.500	172	Gam Gru	3.0030	13100.	77	28671	No
14	GOM_TRA_1PNPDE20070825_012142_000000562061_00060_28671_0255.N1	25-AUG-2007 01:21:42	Bright	55.500	142	49Del Cap	2.8500	8900.0	111	28671	No
15	GOM_TRA_1PNPDE20070825_012457_000000402061_00060_28671_0256.N1	25-AUG-2007 01:24:57	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	28671	No
16	GOM_TRA_1PNPDE20070825_013624_000000352061_00060_28671_0257.N1	25-AUG-2007 01:36:24	Bright	35.000	92	53Eps Cyg	2.5000	4500.0	70	28671	No
17	GOM_TRA_1PNPDE20070825_013809_000000352061_00060_28671_0258.N1	25-AUG-2007 01:38:09	Bright	35.000	66	37Gam Cyg	2.2080	5900.0	70	28671	No
18	GOM_TRA_1PNPDE20070825_013936_000000382061_00060_28671_0259.N1	25-AUG-2007 01:39:36	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	28671	No
19	GOM_TRA_1PNPDE20070825_014446_000000372061_00060_28671_0260.N1	25-AUG-2007 01:44:46	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	28671	No
20	GOM_TRA_1PNPDE20070825_015212_000000342061_00060_28671_0261.N1	25-AUG-2007 01:52:12	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	28671	No
21	GOM_TRA_1PNPDE20070825_020854_000000362061_00060_28671_0262.N1	25-AUG-2007 02:08:54	Bright	35.500	24	66Alp Gem	1.5800	10200.	71	28671	No
22	GOM_TRA_1PNPDE20070825_021542_000000392061_00060_28671_0263.N1	25-AUG-2007 02:15:42	Twilight	39.000	153	3Bet CMi	2.8940	13100.	78	28671	No
23	GOM_TRA_1PNPDE20070825_022333_000000482061_00060_28671_0386.N1	25-AUG-2007 02:23:33	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	28671	No
24	GOM_TRA_1PNPDE20070825_022501_000000402061_00060_28671_0387.N1	25-AUG-2007 02:25:01	Dark	40.000	179	24Omi2CMa	3.0320	24000.	80	28671	No
25	GOM_TRA_1PNPDE20070825_022629_000000432061_00060_28671_0388.N1	25-AUG-2007 02:26:29	Dark	43.000	23	21Eps CMa	1.5020	26000.	86	28671	No
26	GOM_TRA_1PNPDE20070825_022815_000000422061_00060_28671_0389.N1	25-AUG-2007 02:28:15	Dark	42.000	117	Pi Pup	2.7060	3800.0	84	28671	No
27	GOM_TRA_1PNPDE20070825_023318_000000442061_00060_28671_0390.N1	25-AUG-2007 02:33:18	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	28671	No
28	GOM_TRA_1PNPDE20070825_024430_000000472061_00061_28672_0391.N1	25-AUG-2007 02:44:30	Dark	47.000	9	Alp Eri	0.45300	24000.	94	28672	No
29	GOM_TRA_1PNPDE20070825_024930_000000402061_00061_28672_0392.N1	25-AUG-2007 02:49:30	Straylight	39.500	148	Alp Tuc	2.8780	4100.0	79	28672	No
30	GOM_TRA_1PNPDE20070825_025308_000000402061_00061_28672_0393.N1	25-AUG-2007 02:53:08	Straylight	40.000	31	Alp Gru	1.7340	15200.	80	28672	No
31	GOM_TRA_1PNPDE20070825_025601_000000392061_00061_28672_0394.N1	25-AUG-2007 02:56:01	Straylight	39.000	172	Gam Gru	3.0030	13100.	78	28672	No
32	GOM_TRA_1PNPDE20070825_030218_000000492061_00061_28672_0395.N1	25-AUG-2007 03:02:18	Bright	48.500	142	49Del Cap	2.8500	8900.0	97	28672	No
33	GOM_TRA_1PNPDE20070825_030533_000000402061_00061_28672_0396.N1	25-AUG-2007 03:05:33	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	28672	No
34	GOM_TRA_1PNPDE20070825_031700_000000382061_00061_28672_0397.N1	25-AUG-2007 03:17:00	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	28672	No
35	GOM_TRA_1PNPDE20070825_031845_000000352061_00061_28672_0398.N1	25-AUG-2007 03:18:45	Bright	34.500	66	37Gam Cyg	2.2080	5900.0	69	28672	No
36	GOM_TRA_1PNPDE20070825_032011_000000382061_00061_28672_0399.N1	25-AUG-2007 03:20:11	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	28672	No
37	GOM_TRA_1PNPDE20070825_032522_000000342061_00061_28672_0400.N1	25-AUG-2007 03:25:22	Bright	33.500	89	5Alp Cep	2.4510	8000.0	67	28672	No
38	GOM_TRA_1PNPDE20070825_033248_000000332061_00061_28672_0401.N1	25-AUG-2007 03:32:48	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	28672	No
39	GOM_TRA_1PNPDE20070825_034930_000000372061_00061_28672_0547.N1	25-AUG-2007 03:49:30	Bright	37.000	24	66Alp Gem	1.5800	10200.	74	28672	No
40	GOM_TRA_1PNPDE20070825_035618_000000392061_00061_28672_0548.N1	25-AUG-2007 03:56:18	Twilight	39.000	153	3Bet CMi	2.8940	13100.	78	28672	No
41	GOM_TRA_1PNPDE20070825_040410_000000522061_00061_28672_0549.N1	25-AUG-2007 04:04:10	Dark	51.500	1	9Alp CMa	-1.4400	11000.	103	28672	No
42	GOM_TRA_1PNPDE20070825_040537_000000402061_00061_28672_0550.N1	25-AUG-2007 04:05:37	Dark	40.000	179	24Omi2CMa	3.0320	24000.	80	28672	No
43	GOM_TRA_1PNPDE20070825_040705_000000412061_00061_28672_0551.N1	25-AUG-2007 04:07:05	Dark	41.000	23	21Eps CMa	1.5020	26000.	82	28672	No
44	GOM_TRA_1PNPDE20070825_040852_000000432061_00061_28672_0552.N1	25-AUG-2007 04:08:52	Dark	42.500	117	Pi Pup	2.7060	3800.0	85	28672	No
45	GOM_TRA_1PNPDE20070825_041354_000000522061_00061_28672_0553.N1	25-AUG-2007 04:13:54	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	28672	No
46	GOM_TRA_1PNPDE20070825_042506_000000452061_00062_28673_0554.N1	25-AUG-2007 04:25:06	Dark	45.000	9	Alp Eri	0.45300	24000.	90	28673	No
47	GOM_TRA_1PNPDE20070825_043007_000000392061_00062_28673_0555.N1	25-AUG-2007 04:30:07	Straylight	38.500	148	Alp Tuc	2.8780	4100.0	77	28673	No
48	GOM_TRA_1PNPDE20070825_043344_000000392061_00062_28673_0556.N1	25-AUG-2007 04:33:44	Straylight	39.000	31	Alp Gru	1.7340	15200.	78	28673	No
49	GOM_TRA_1PNPDE20070825_043637_000000392061_00062_28673_0557.N1	25-AUG-2007 04:36:37	Straylight	38.500	172	Gam Gru	3.0030	13100.	77	28673	No

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



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

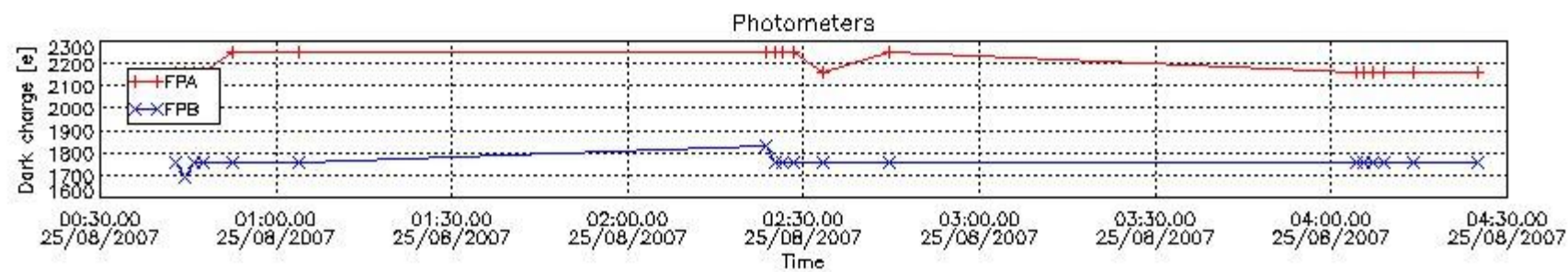
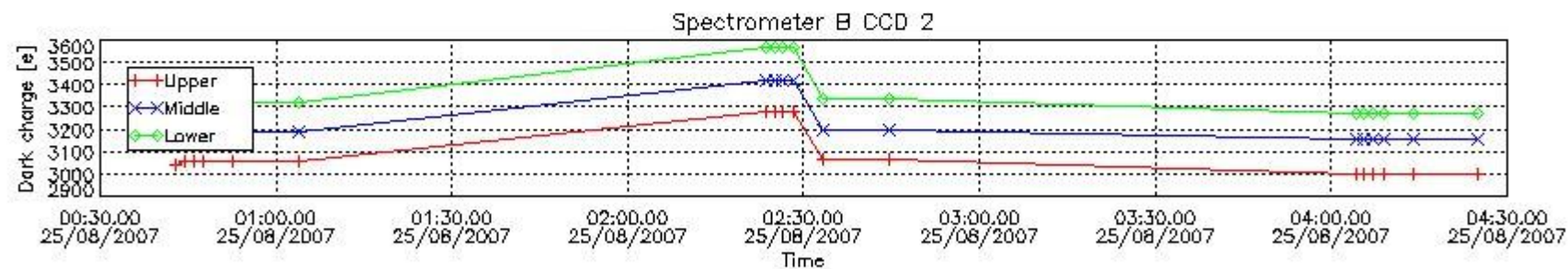
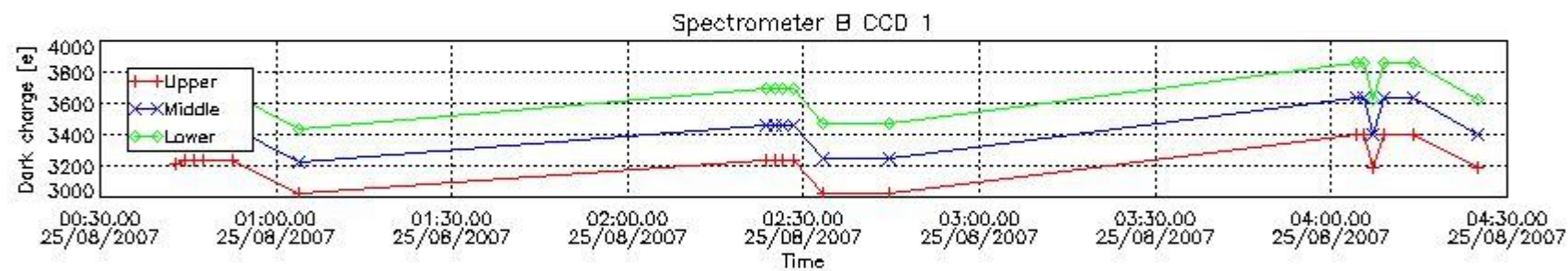
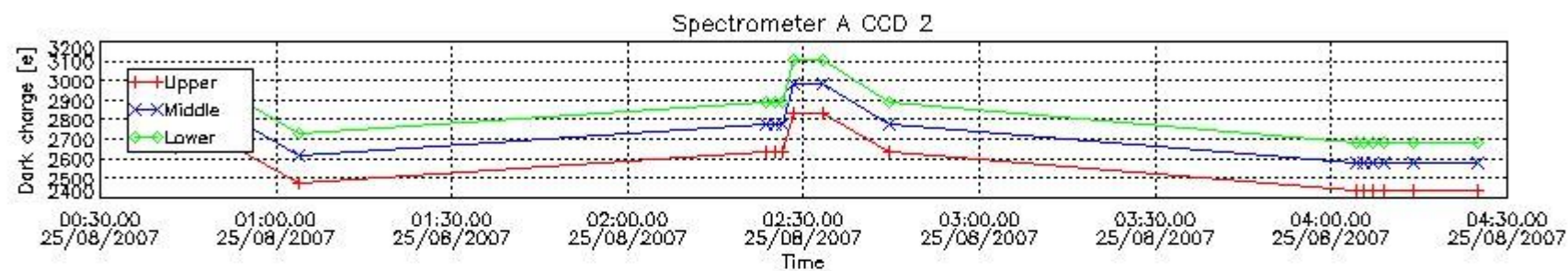
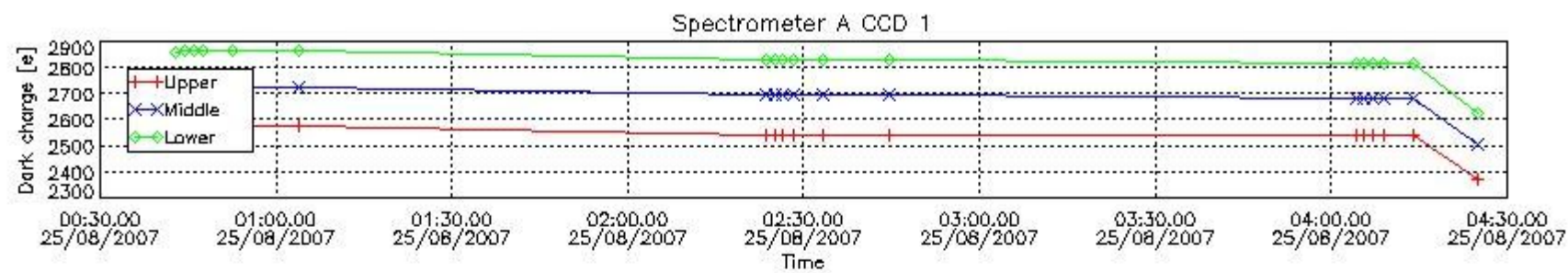
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





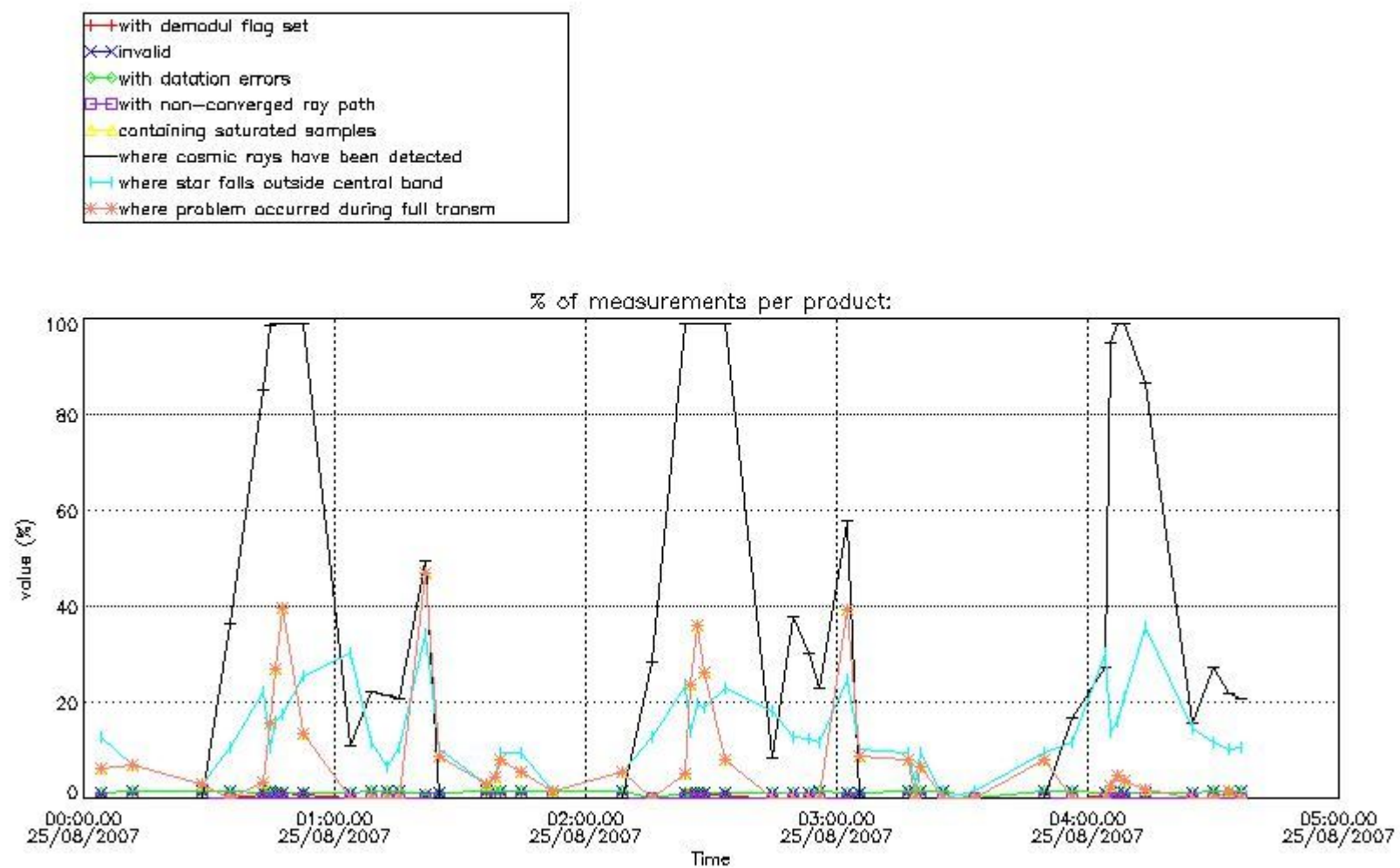
## 5. Demodulation flag and quality information monitoring

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:

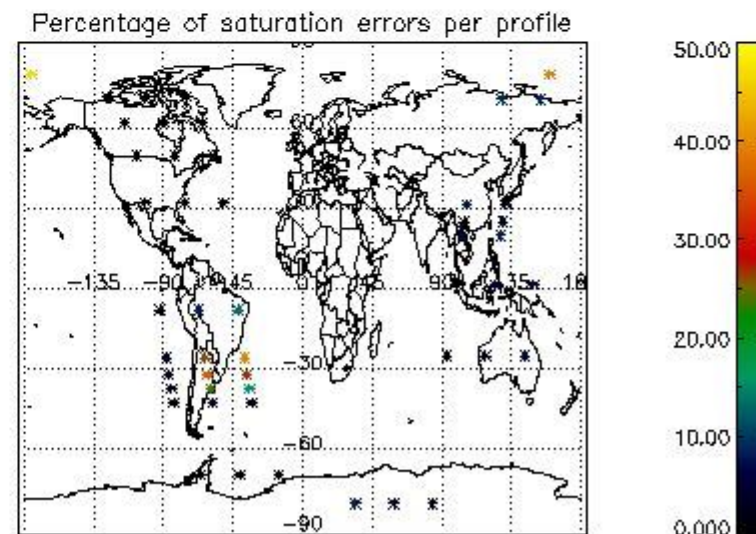
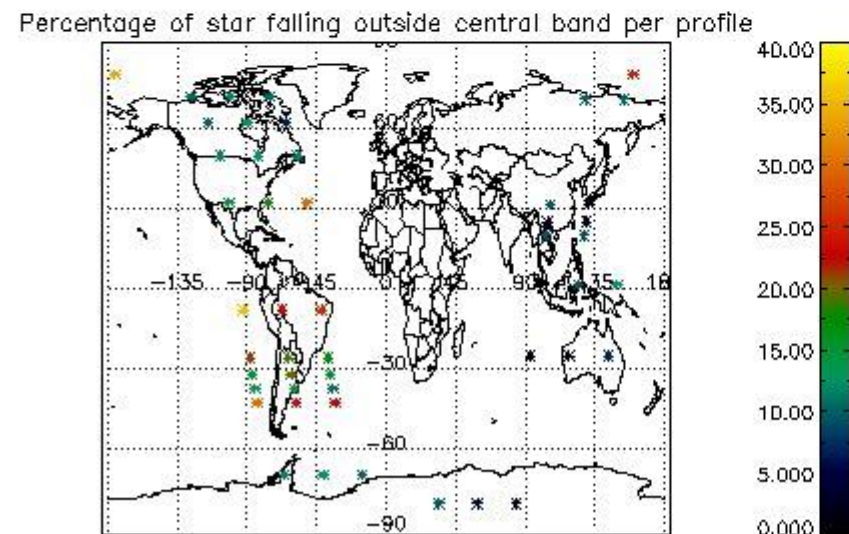
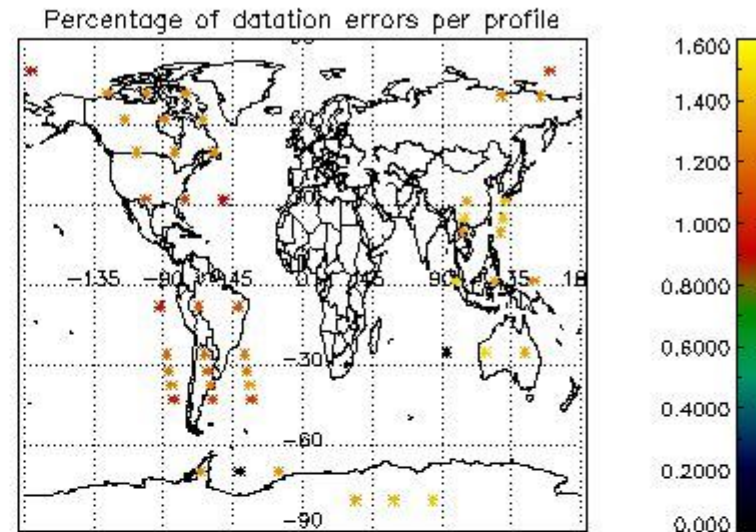
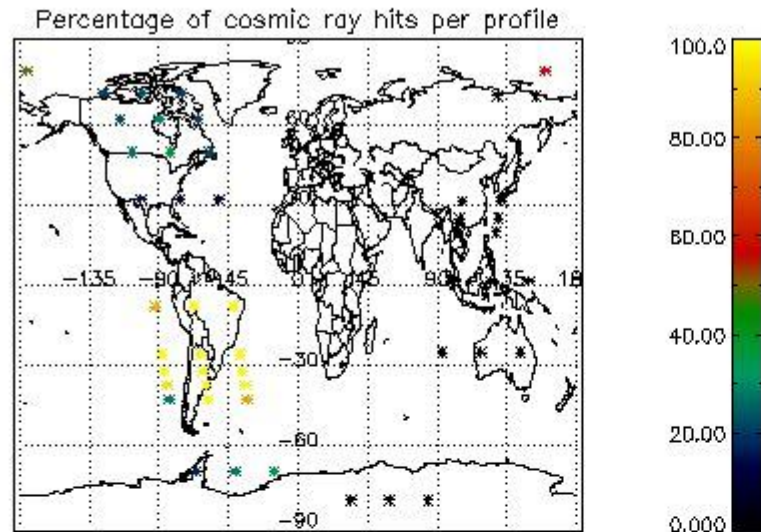
At least one measurement with demodulation flag set:	38.7755 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





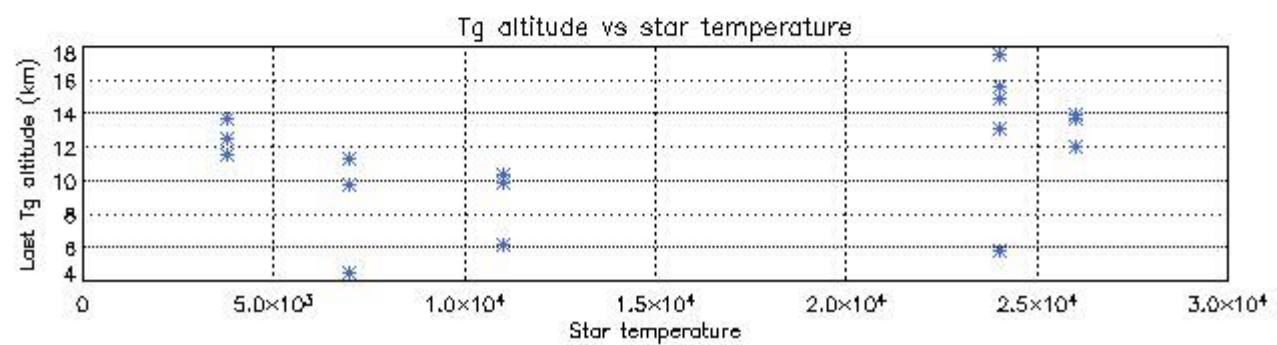
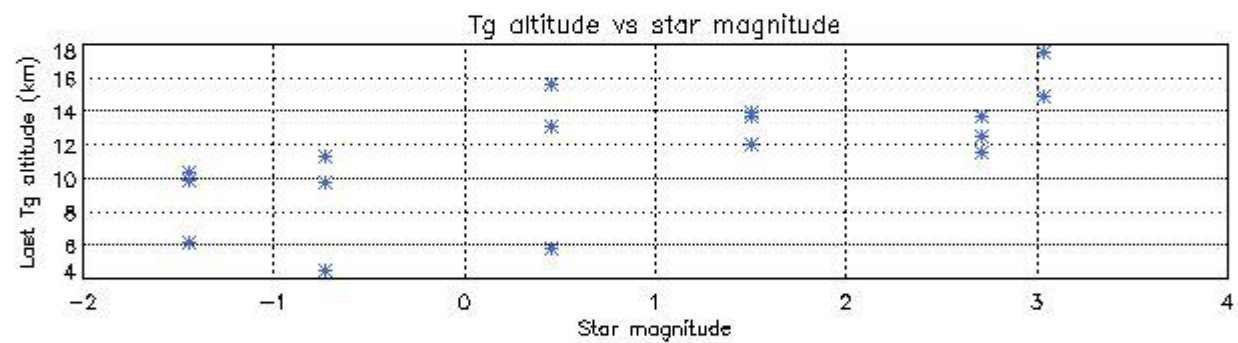
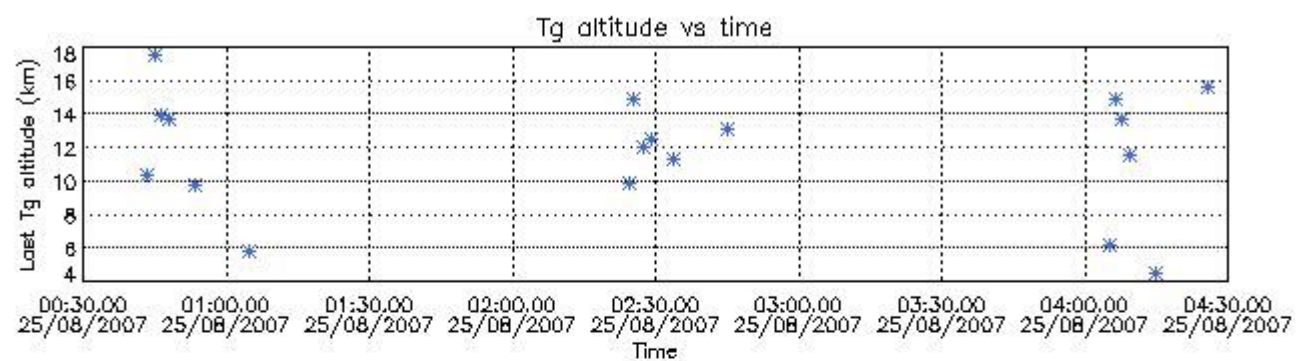
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.747	19.942	16.134
St. deviation:	3.5581	5.8434	0.41759
Maximum:	17.562	28.910	16.598
Minimum:	4.4359	4.5894	15.788
Number of data:	18.000	19.000	3.0000

### 6.2 Plot for DARK limb products

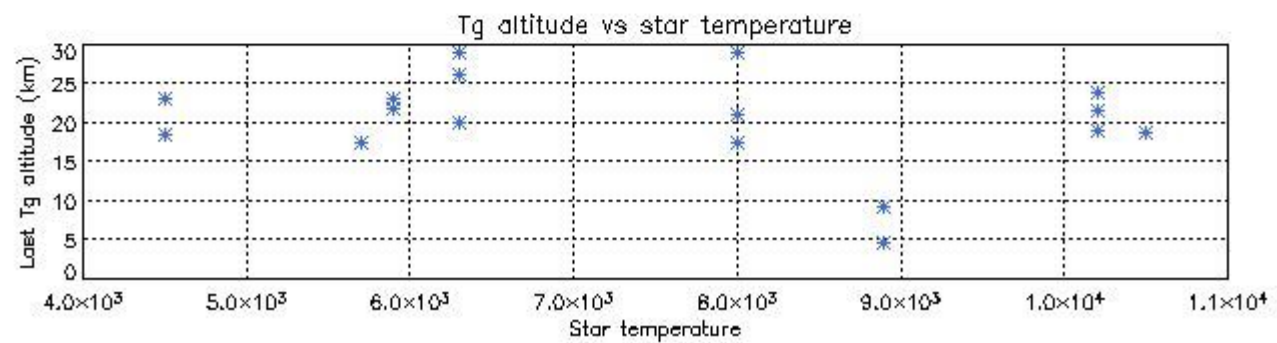
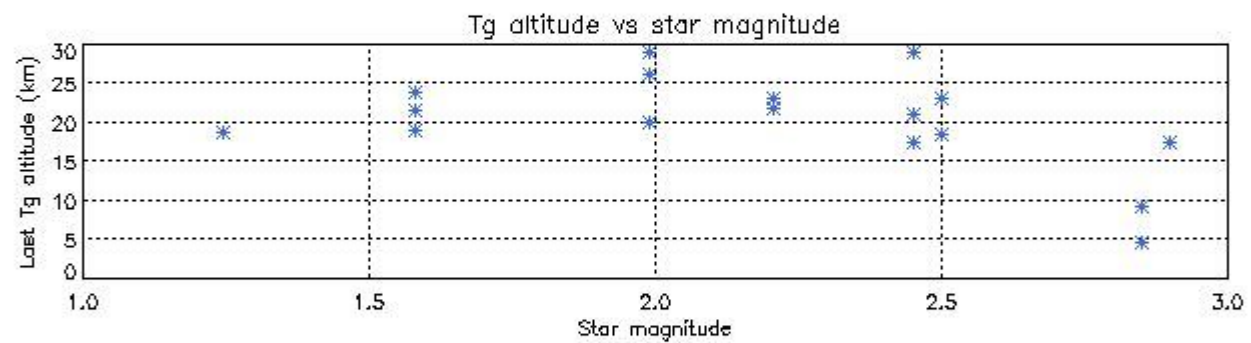
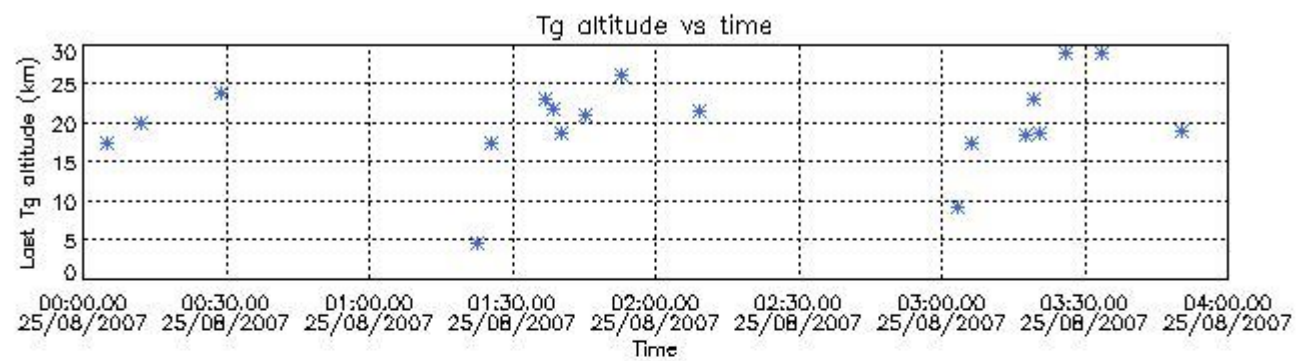
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

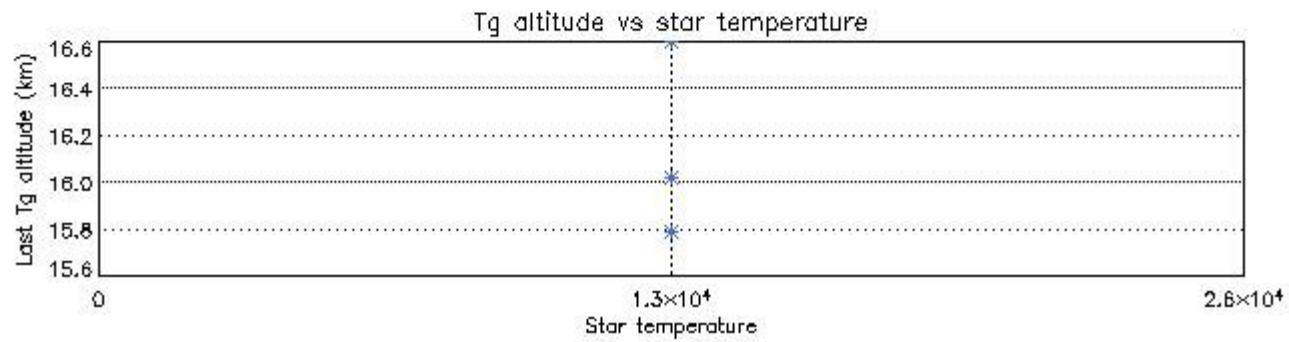
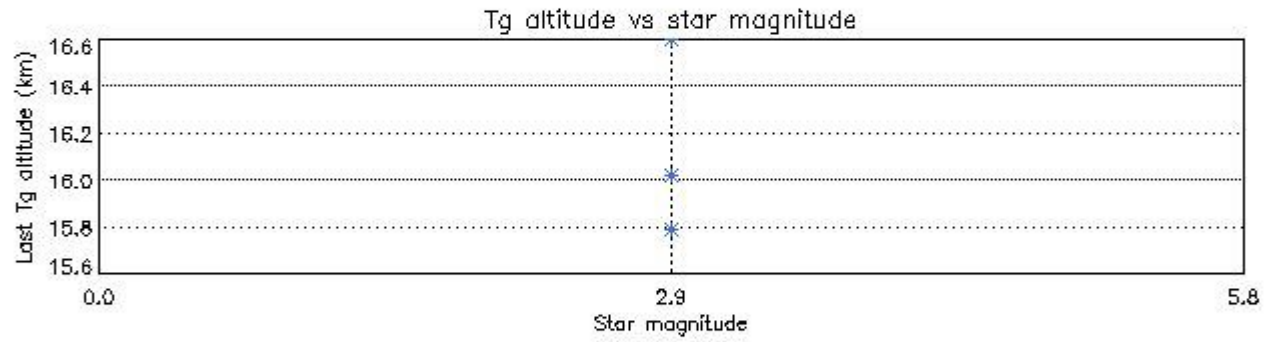
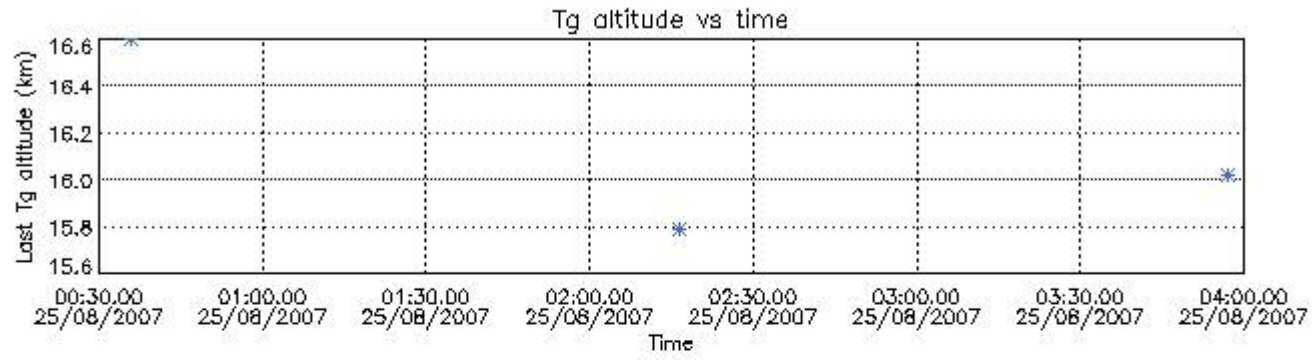


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

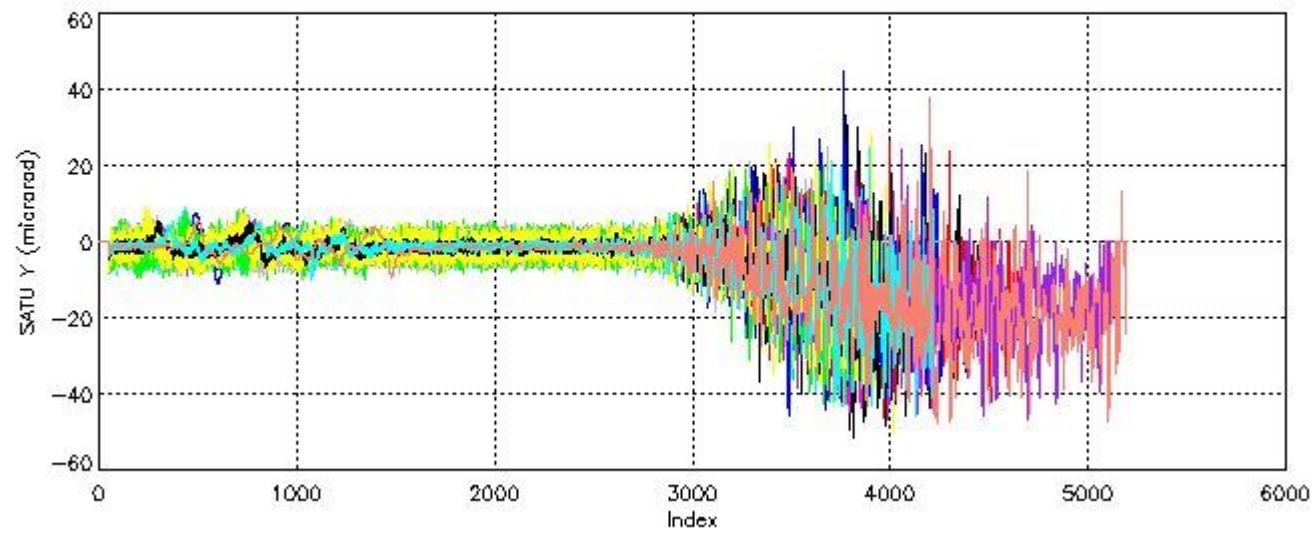
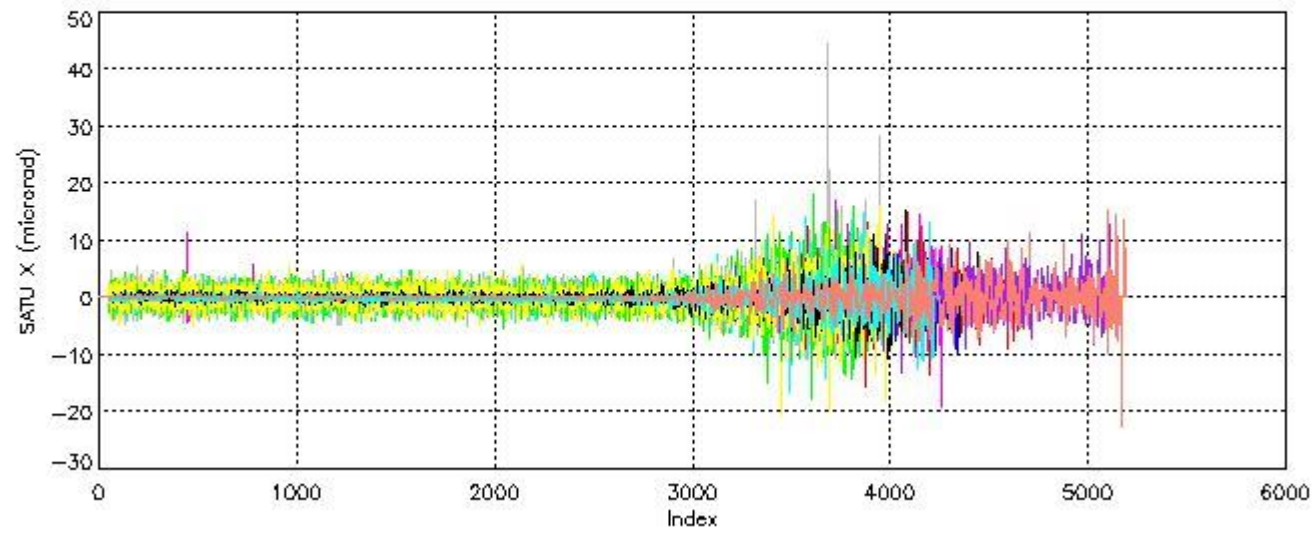


## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



## 7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.048368	-1.1198	0.095032	-1.2342
St. deviation:	0.50061	2.1617	0.67546	1.9962
Maximum:	11.300	9.3000	3.6000	8.7000
Minimum:	-5.0000	-11.100	-3.3000	-9.5000



Number of data:	15900.	15900.	15700.	15700.
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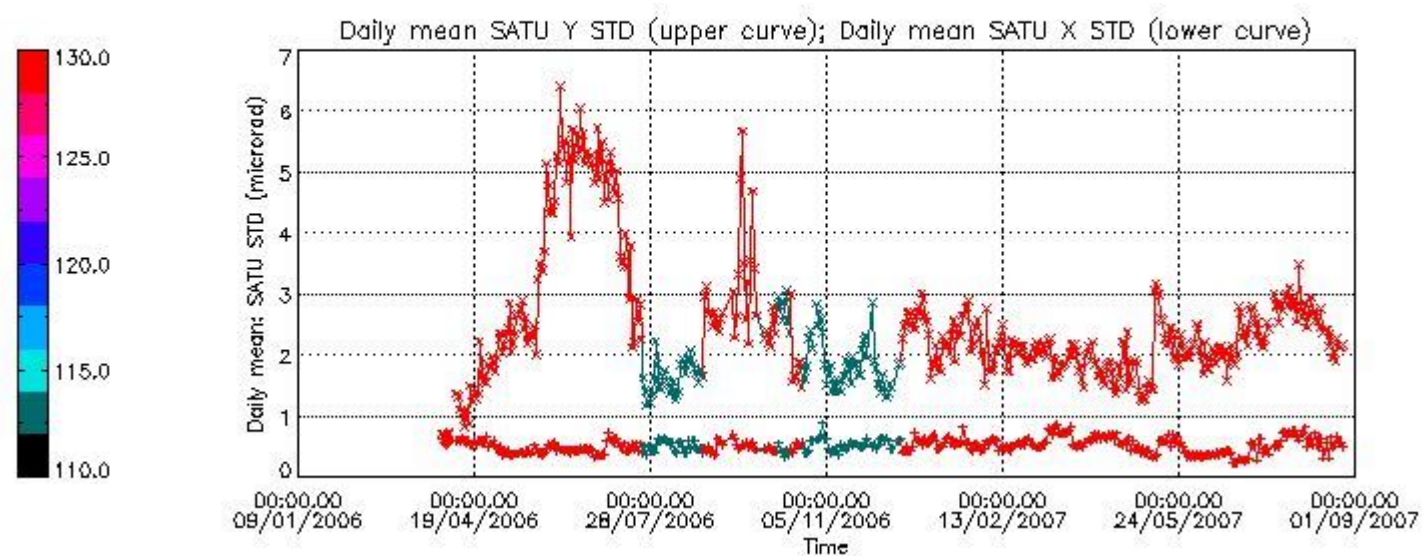
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

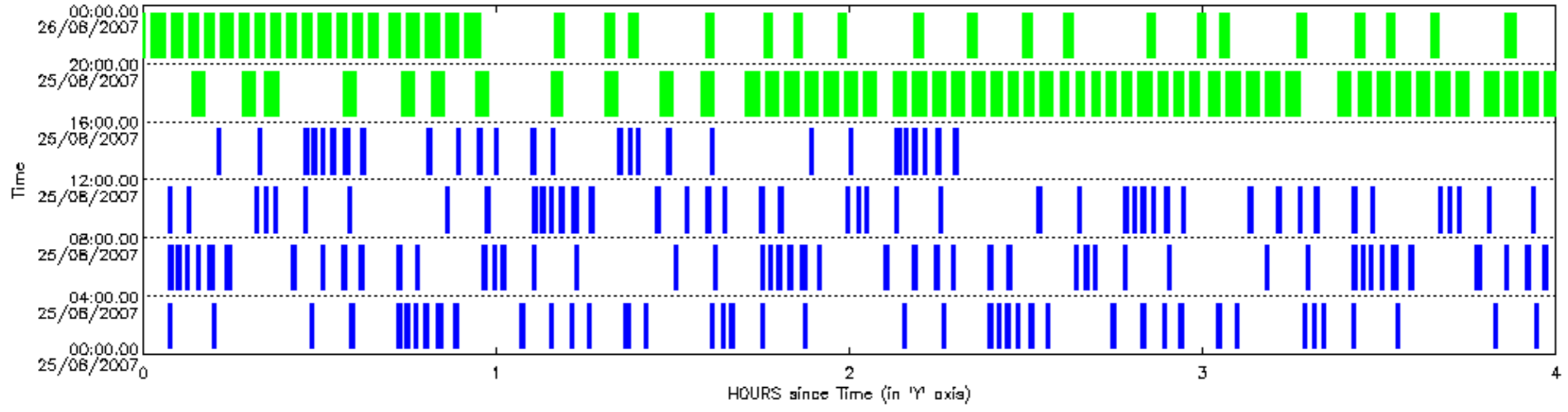
Lower curve: STD of SATU X axis

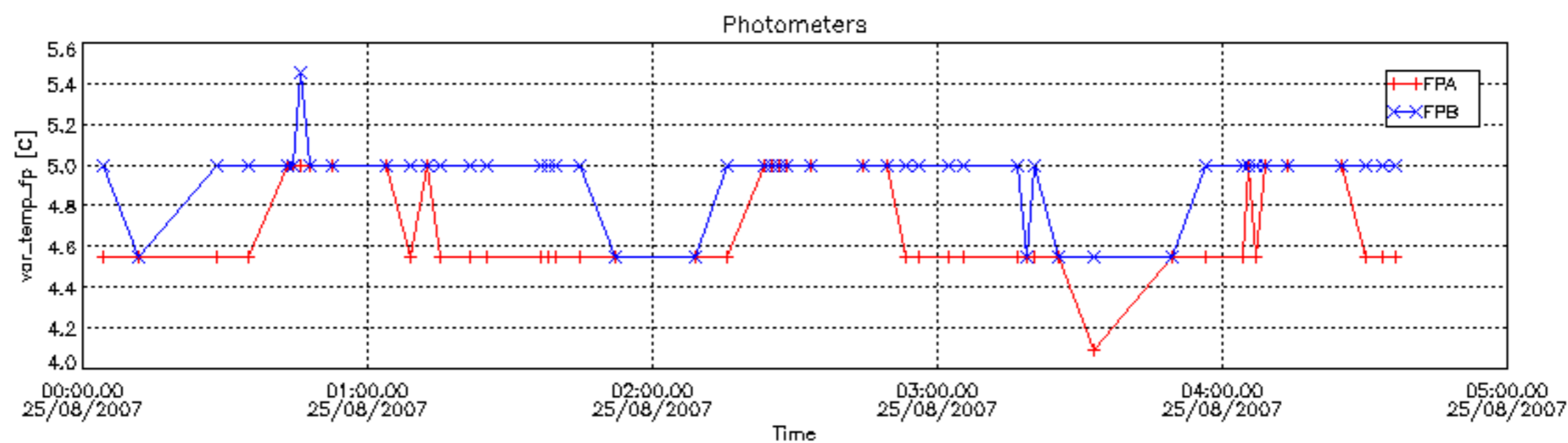
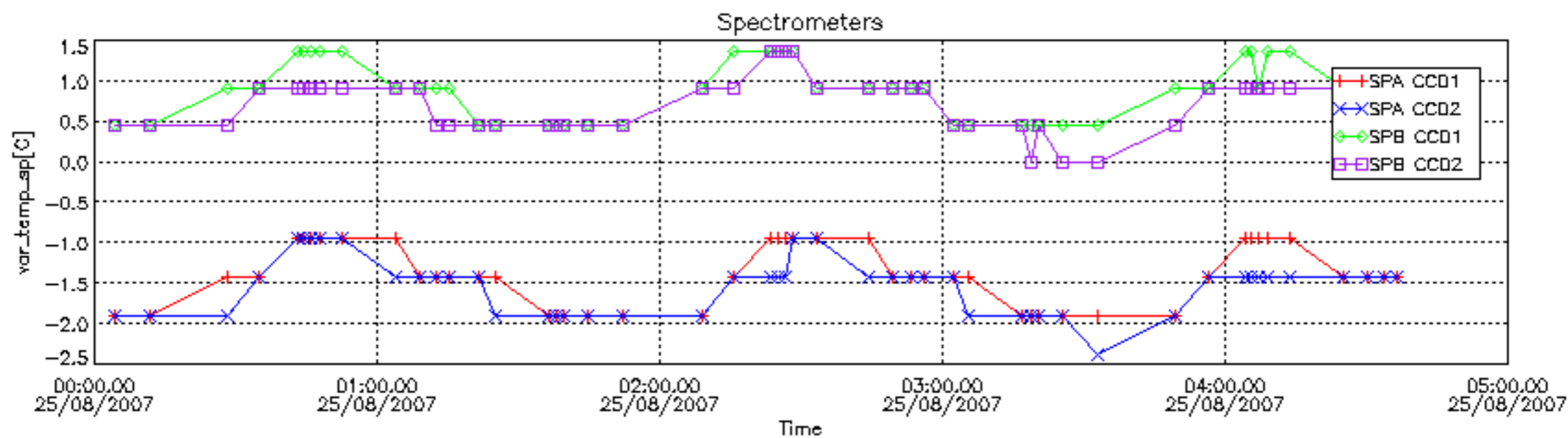


### 8. Auxiliary Data Files used for the production reported in section 2.4

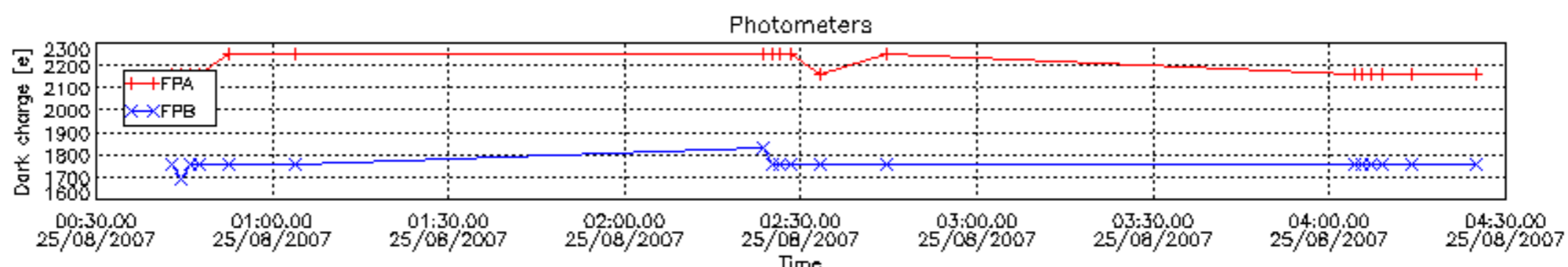
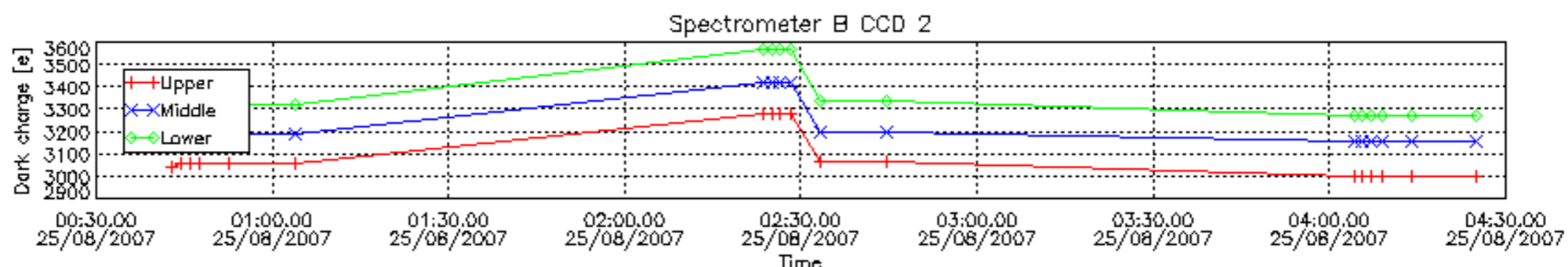
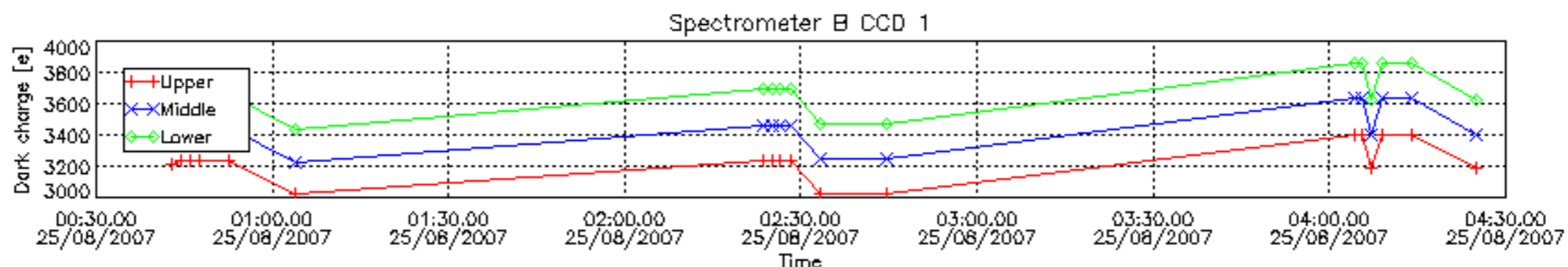
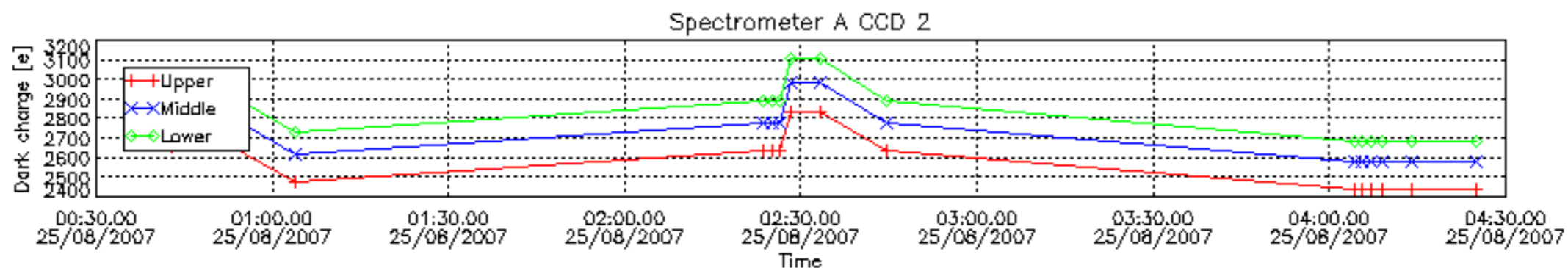
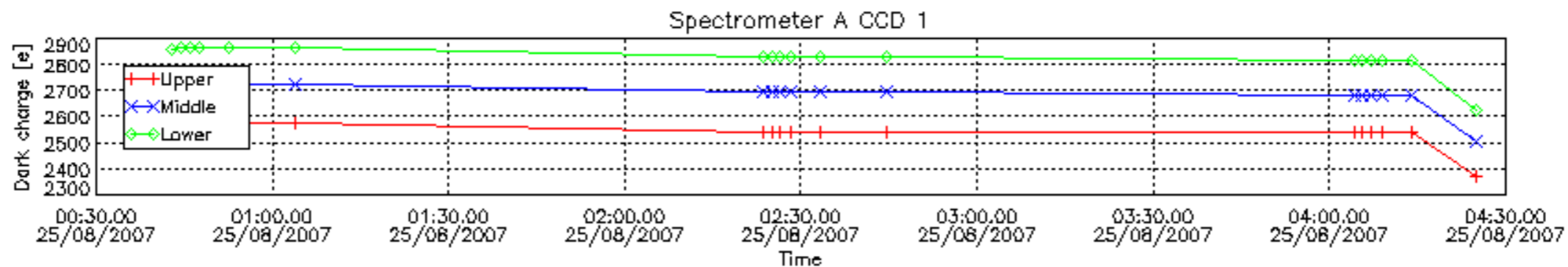
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	25-AUG-2007 00:04:10
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070822_085350_20070820_000000_20100101_000000	1	25-AUG-2007 00:04:10
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	25-AUG-2007 00:04:10
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-AUG-2007 00:04:10
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	25-AUG-2007 00:04:10
ECMWF_FILE	AUX_ECF_AXNECM20070824_061112_20070824_210000_20070825_090000	1	25-AUG-2007 00:04:10
ECMWF_FILE	AUX_ECF_AXNECM20070824_182112_20070825_030000_20070825_150000	39	25-AUG-2007 03:49:30
OPTIONAL_ECMWF_FILE	MISSING	1	25-AUG-2007 00:04:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070824_211704_000057382061_00057_28668_4035.N1	1	25-AUG-2007 00:04:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070824_225801_000060572061_00058_28669_4036.N1	6	25-AUG-2007 00:44:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070825_003858_000057382061_00059_28670_4037.N1	23	25-AUG-2007 02:23:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070825_021436_000044632061_00060_28671_4038.N1	39	25-AUG-2007 03:49:30



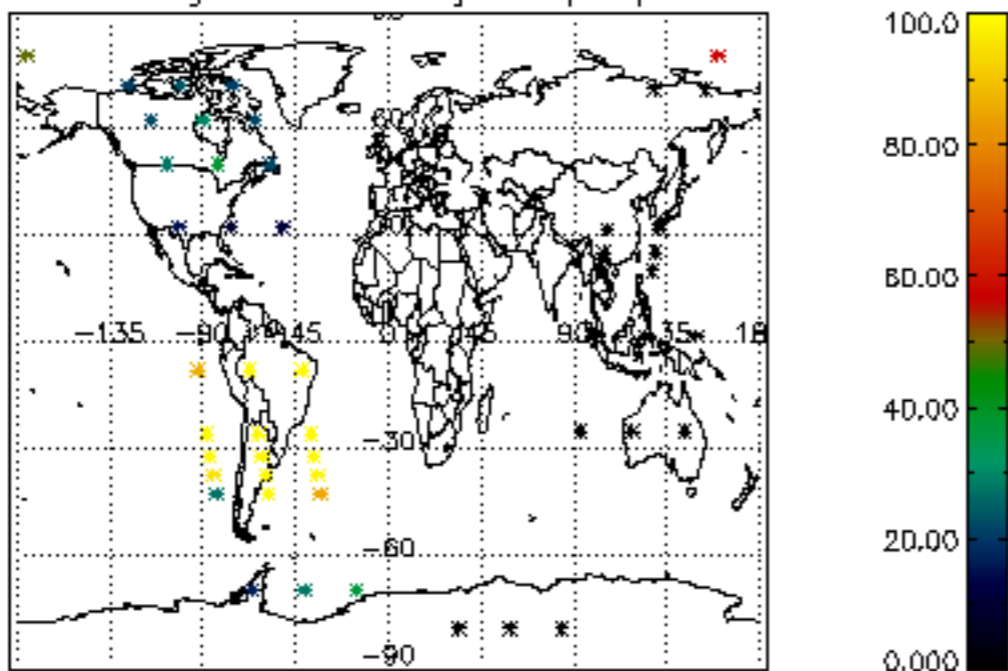




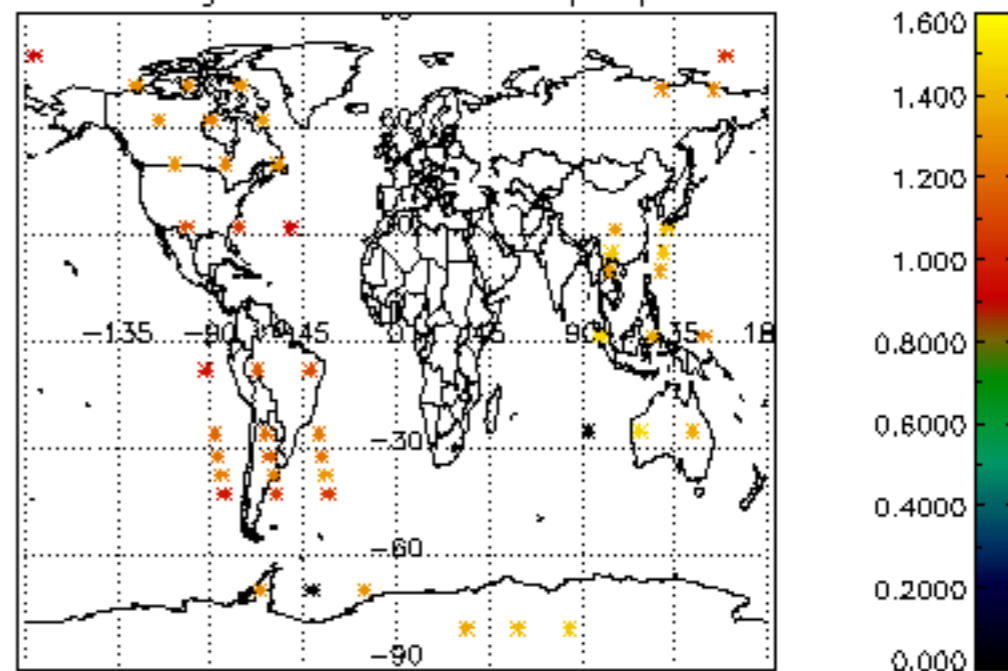




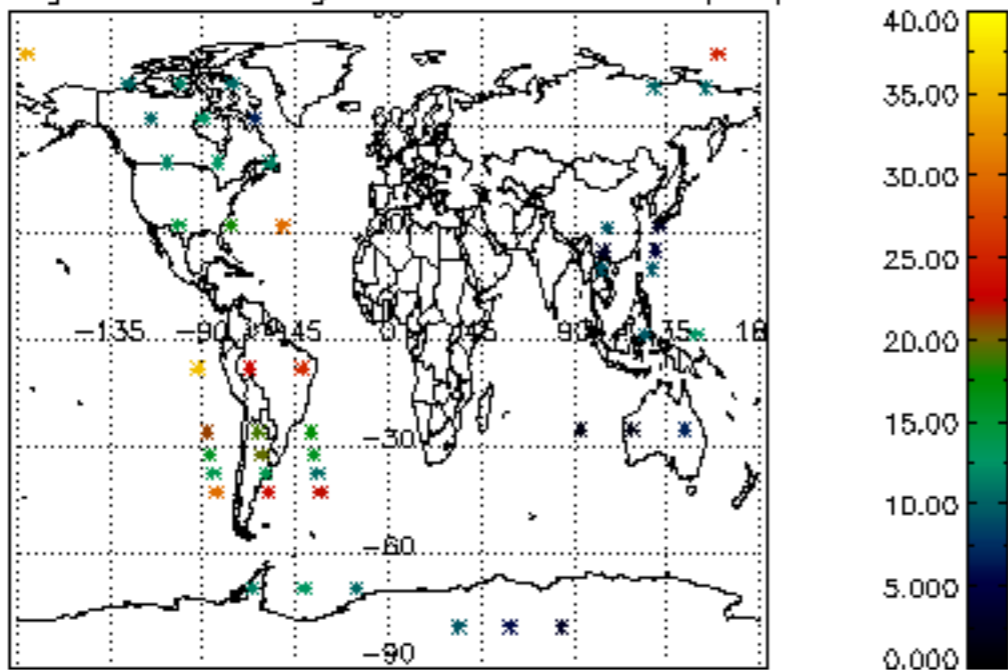
Percentage of cosmic ray hits per profile



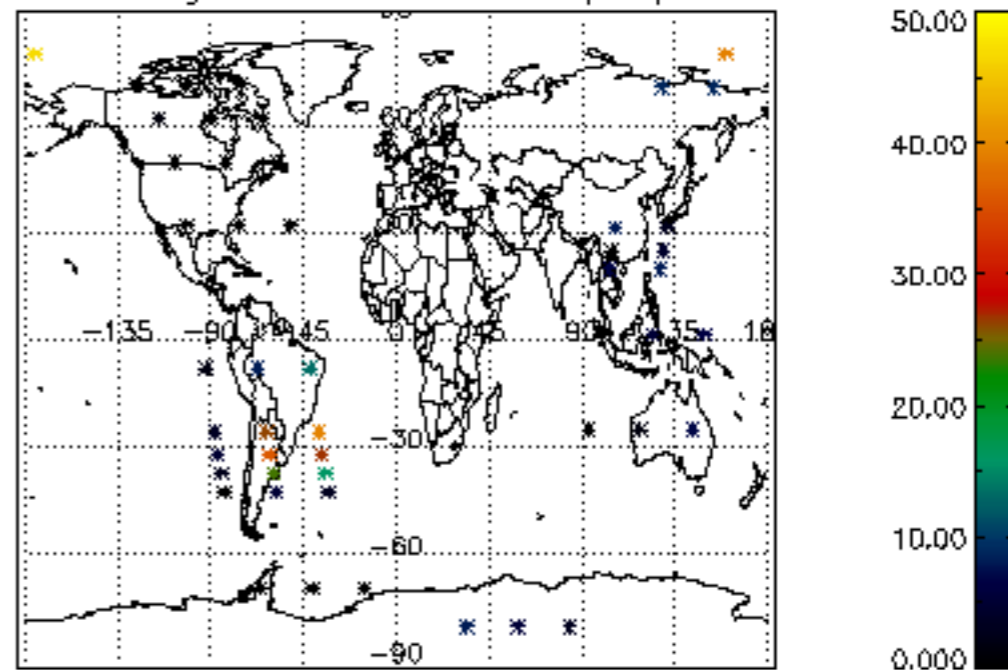
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

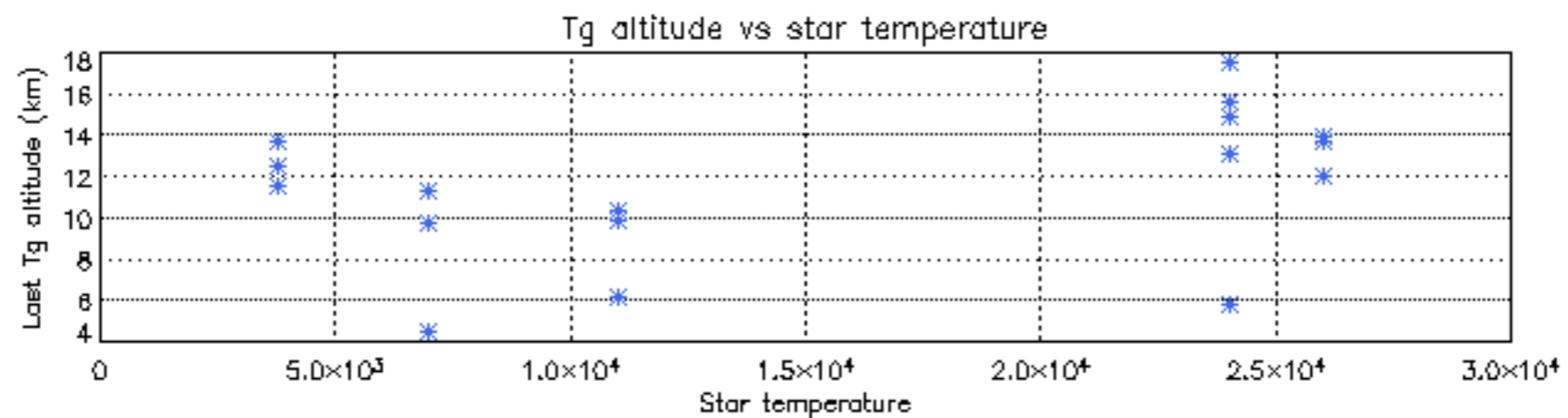
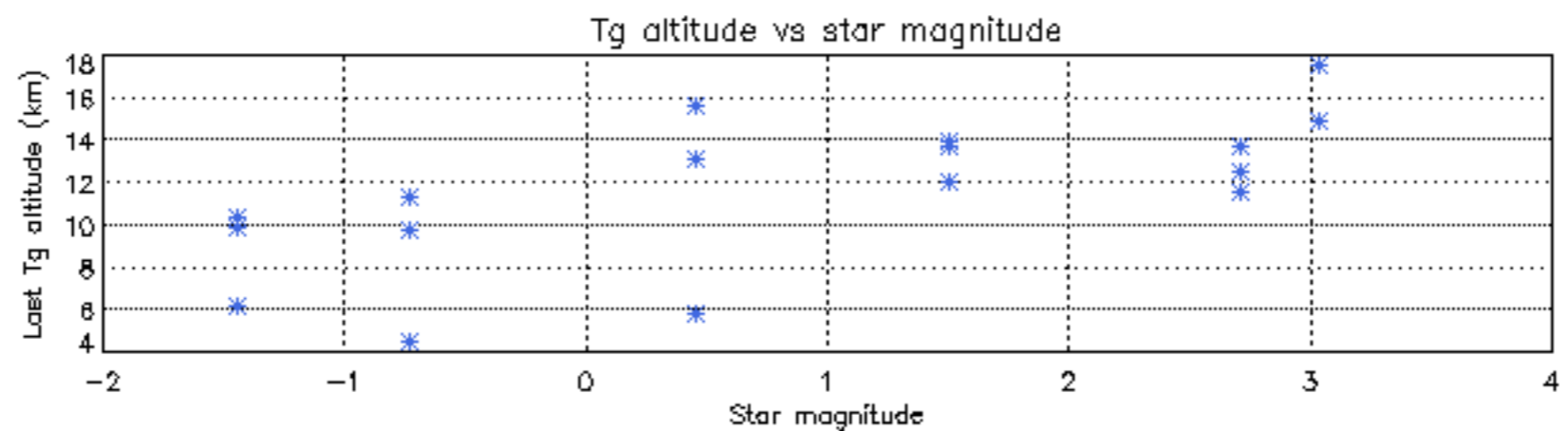
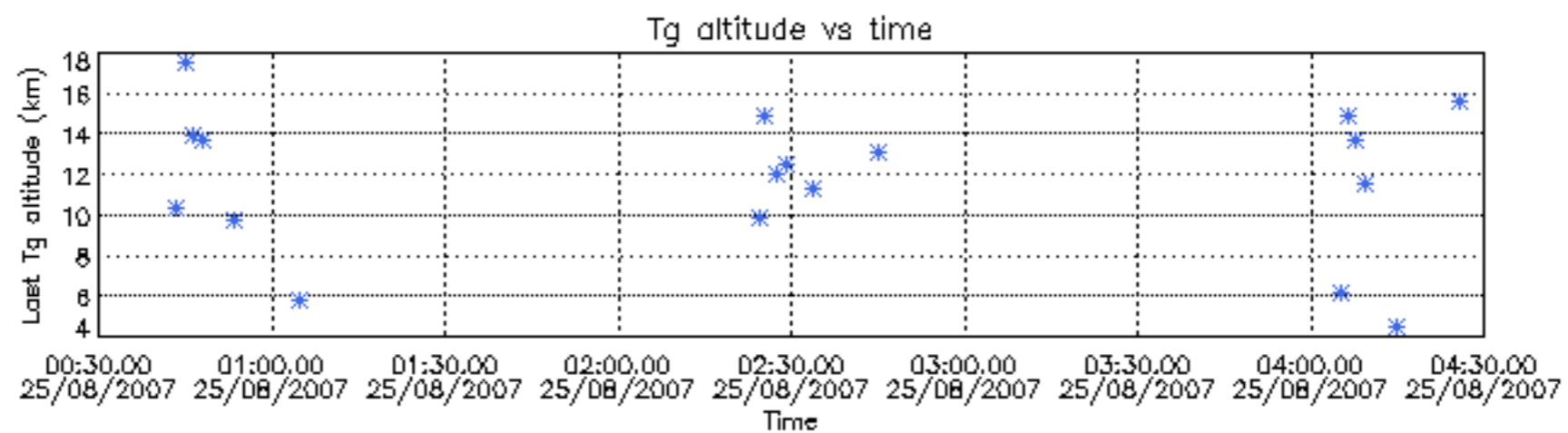


Percentage of saturation errors per profile

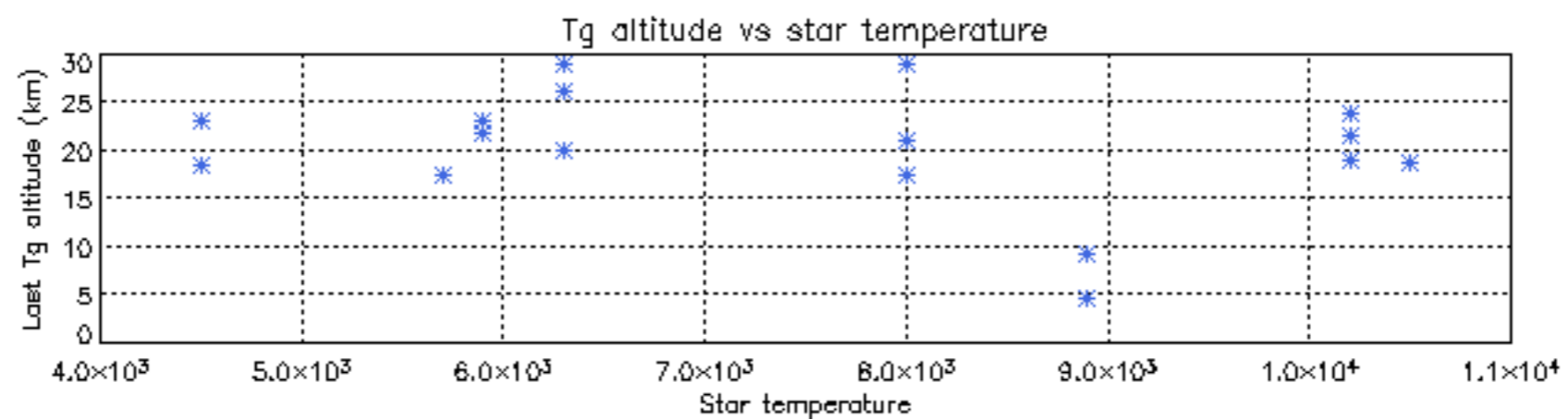
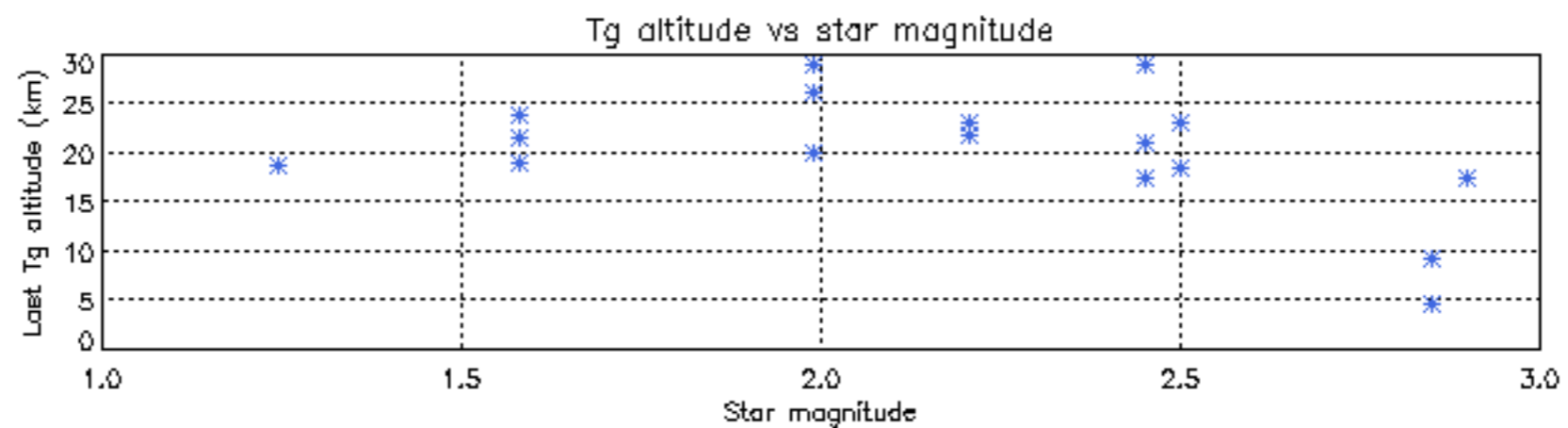
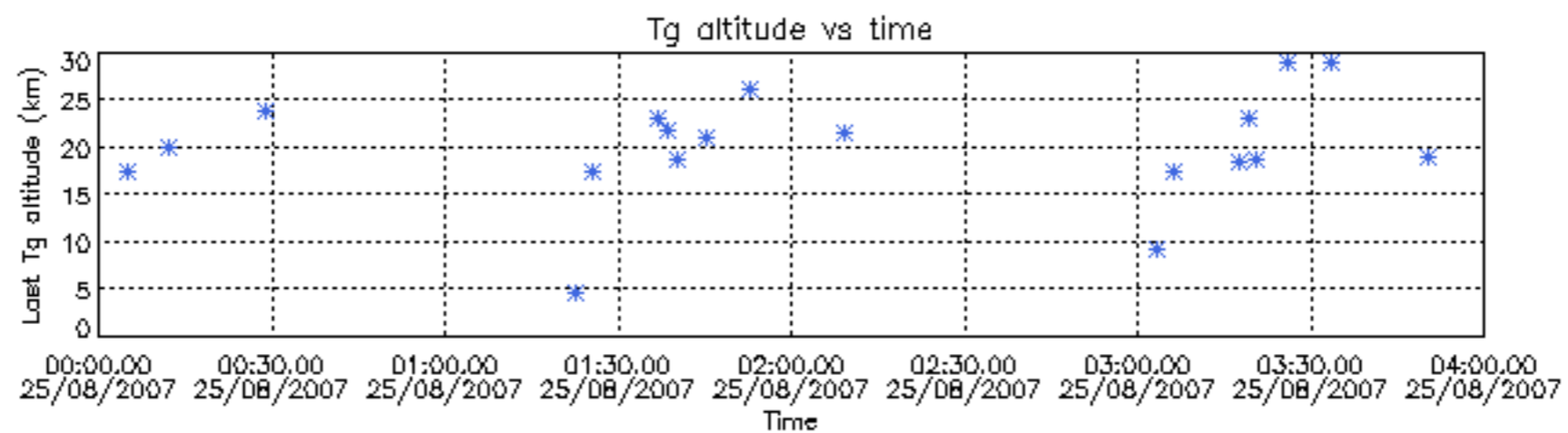




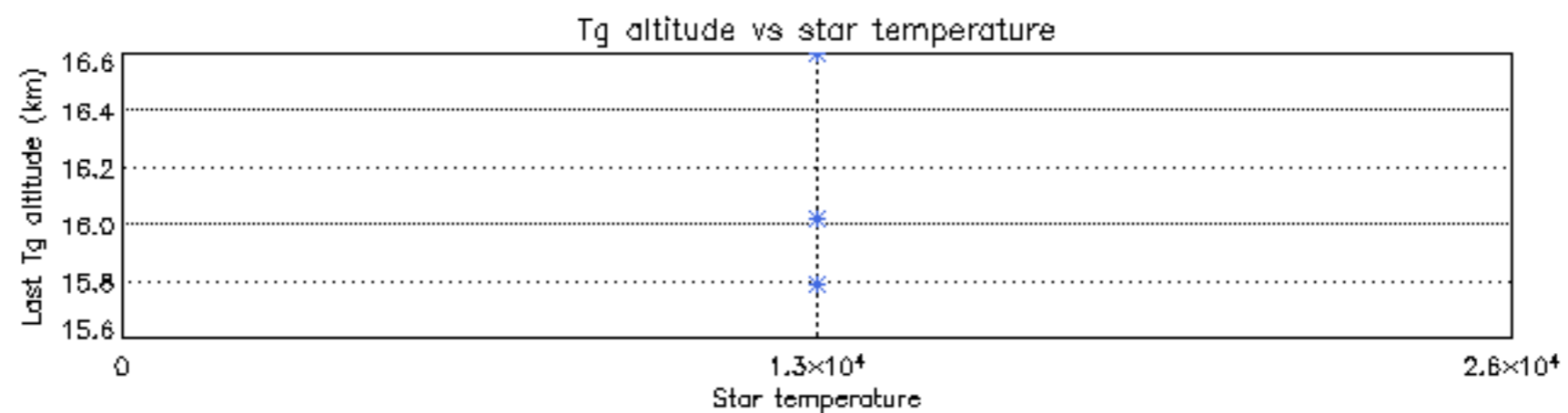
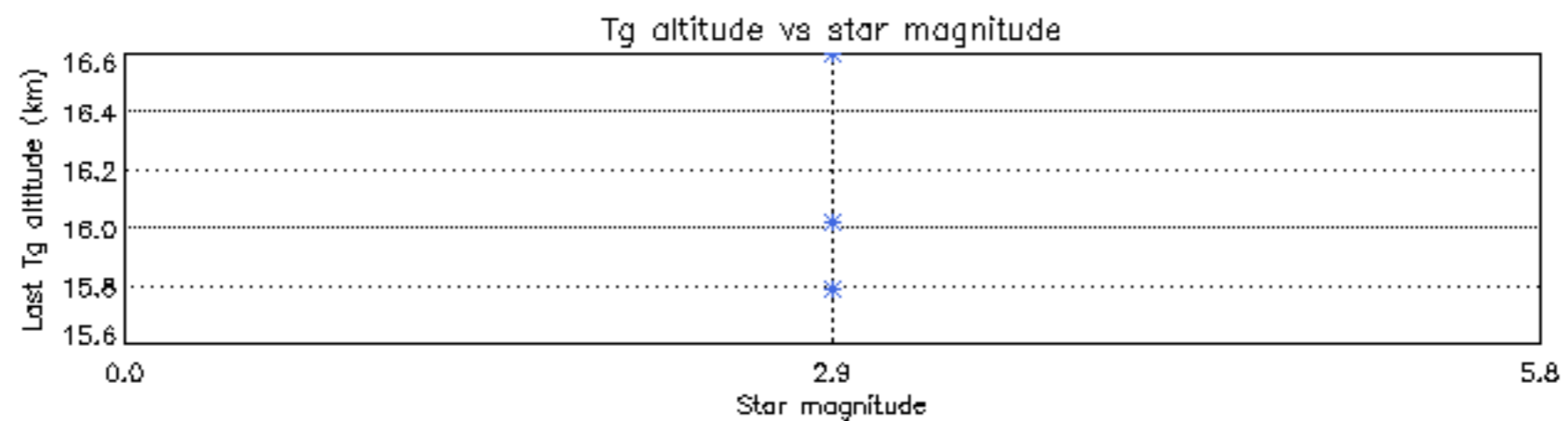
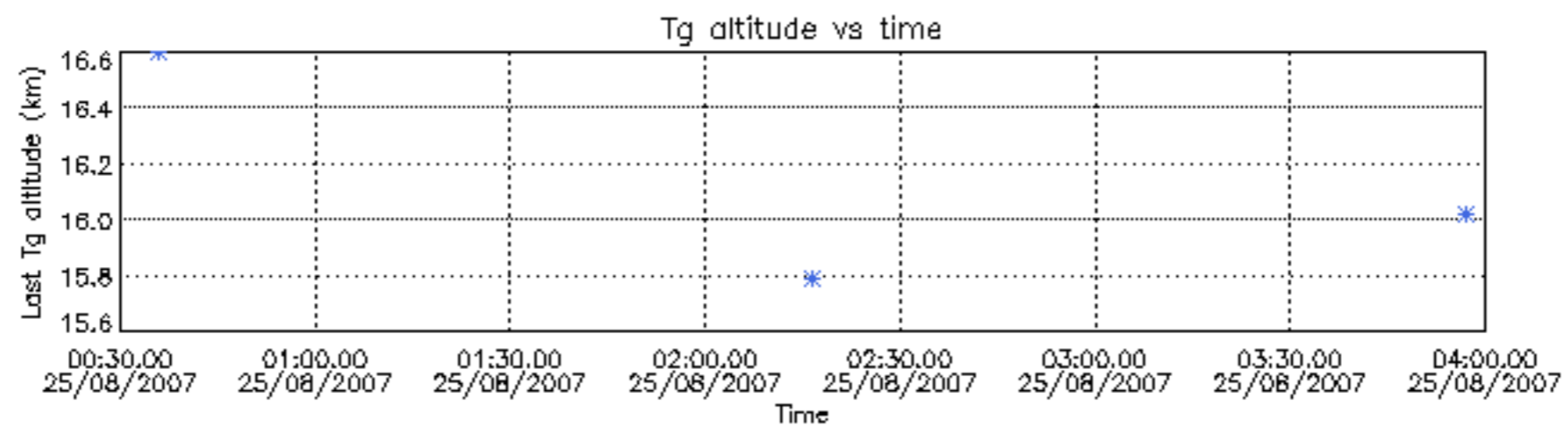
Tangent altitude at which the star is lost

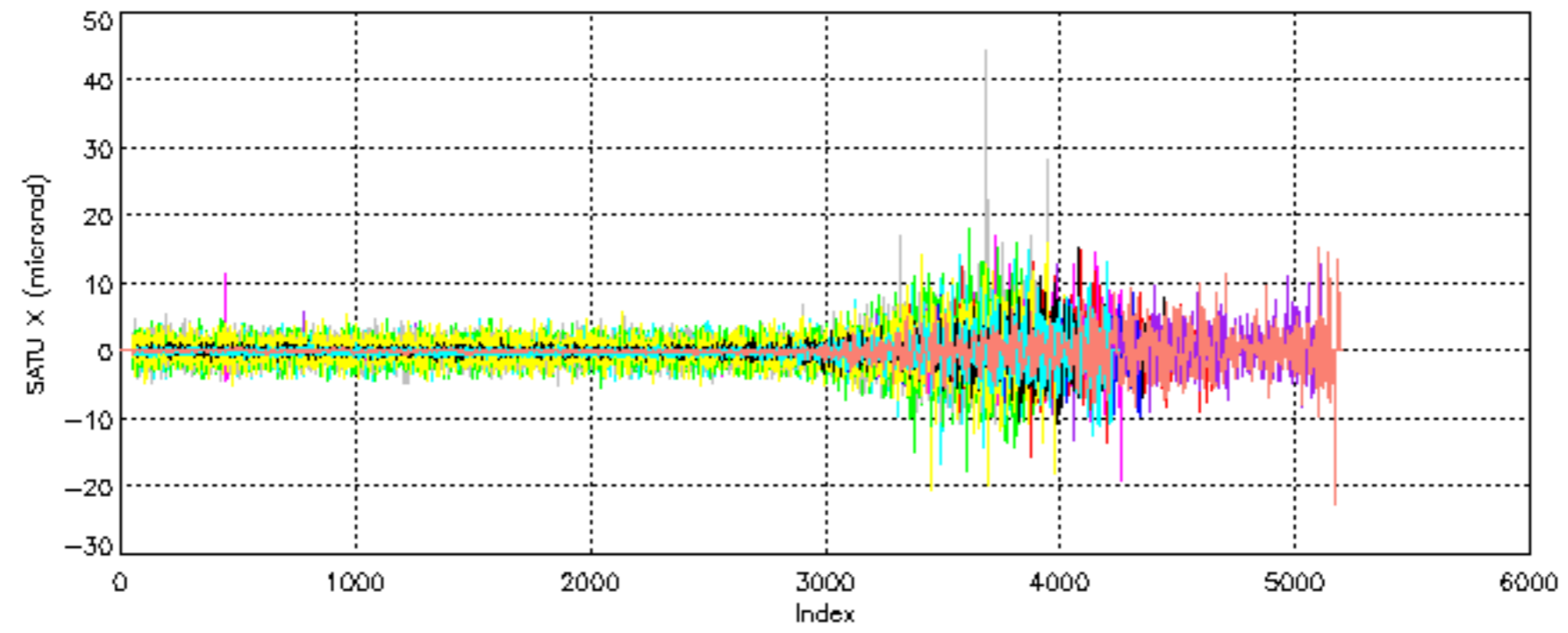


Tangent altitude at which the star is lost

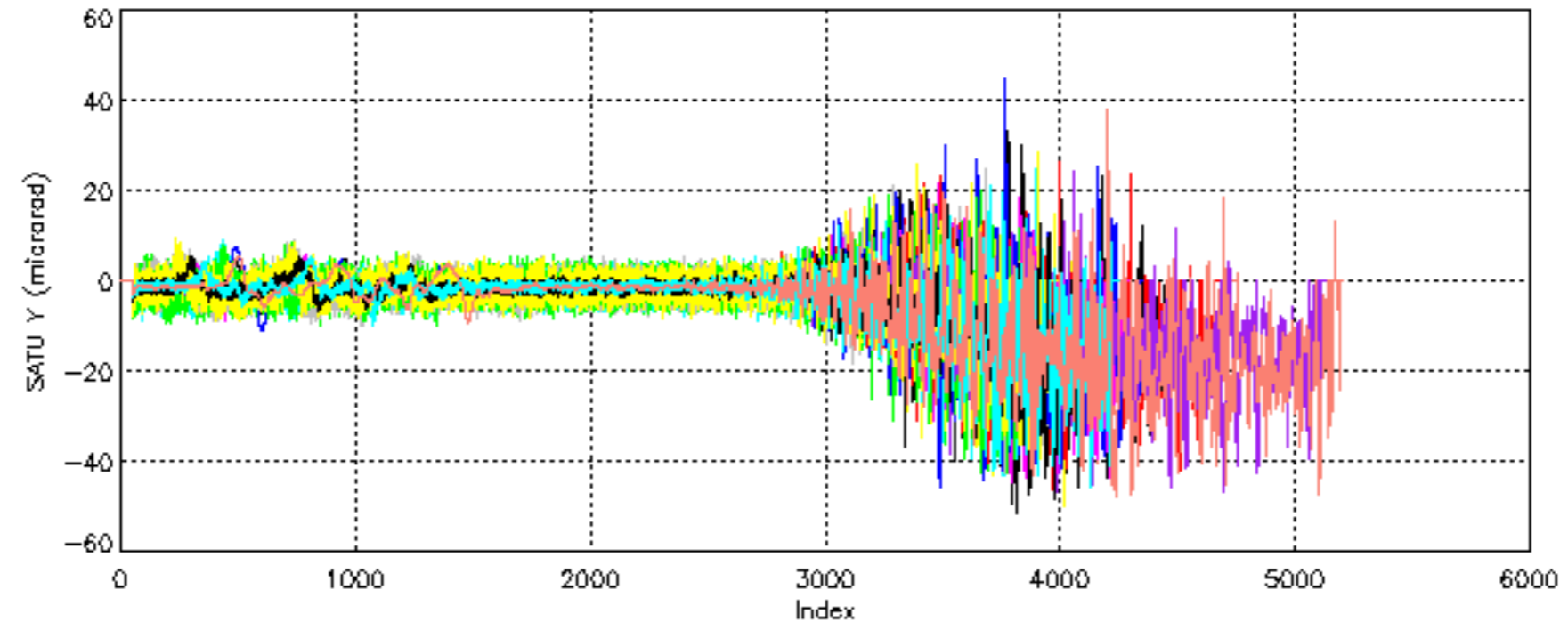


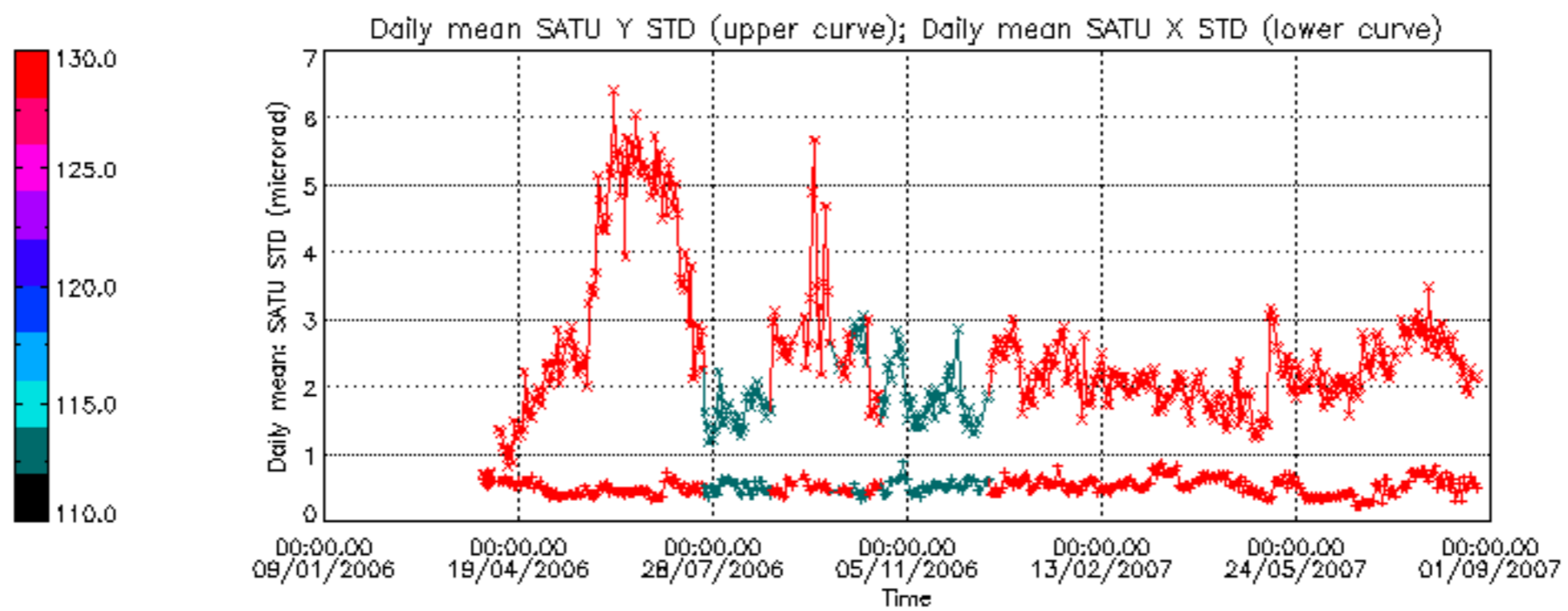
Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20070801\_013632\_000042562060\_00217\_28327\_4074.N1

1; -781.4; 01-AUG-2007 01:36:32; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;28327  
 2; -680.8; 01-AUG-2007 01:38:13; Dark ; 42.0; 139; 9Bet Lep ; 2.83; 5600;occ; 84; 0;28327  
 3; -483.6; 01-AUG-2007 01:41:30; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28327  
 4; 267.4; 01-AUG-2007 01:54:01; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;28328  
 5; 424.4; 01-AUG-2007 01:56:38; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;28328  
 6; 715.8; 01-AUG-2007 02:01:29; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;28328  
 7; 909.8; 01-AUG-2007 02:04:43; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;28328  
 8; 1412.3; 01-AUG-2007 02:13:06; Dark ; 52.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 104; 0;28328  
 9; 1555.1; 01-AUG-2007 02:15:29; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;28328  
 10; 2144.7; 01-AUG-2007 02:25:18; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;28328  
 11; 2569.6; 01-AUG-2007 02:32:23; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;28328  
 12; 2796.3; 01-AUG-2007 02:36:10; Bright; 35.5; 69; 33Gam Dra ; 2.23; 3800;occ; 71; 0;28328  
 13; 3035.0; 01-AUG-2007 02:40:09; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;28328  
 14; 3284.8; 01-AUG-2007 02:44:18; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;28328  
 15; 3441.1; 01-AUG-2007 02:46:55; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;28328

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20070801\_025946\_000053002060\_00218\_28328\_4075.N1

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 2; -1690.0; 01-AUG-2007 03:02:00; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28328  
 3; -1397.3; 01-AUG-2007 03:06:52; Dark ; 40.5; 176; 23Zet Tau ; 3.02; 22000;occ; 81; 0;28328  
 4; -1178.1; 01-AUG-2007 03:10:31; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;28328  
 5; -1013.2; 01-AUG-2007 03:13:16; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;28328  
 6; -865.6; 01-AUG-2007 03:15:44; Dark ; 43.5; 7; 19Bet Ori ; 0.10; 14000;occ; 87; 0;28328  
 7; -781.2; 01-AUG-2007 03:17:08; Dark ; 40.5; 47; 2Bet CMa ; 1.98; 28000;occ; 81; 0;28328  
 8; -680.5; 01-AUG-2007 03:18:49; Dark ; 41.5; 139; 9Bet Lep ; 2.83; 5600;occ; 83; 0;28328  
 9; -580.1; 01-AUG-2007 03:20:29; Dark ; 36.0; 177; 1Zet CMa ; 3.02; 26000;occ; 72; 0;28328  
 10; -483.5; 01-AUG-2007 03:22:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28328  
 11; 268.0; 01-AUG-2007 03:34:37; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;28329  
 12; 424.7; 01-AUG-2007 03:37:14; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;28329  
 13; 716.4; 01-AUG-2007 03:42:06; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;28329  
 14; 910.2; 01-AUG-2007 03:45:20; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;28329  
 15; 1412.6; 01-AUG-2007 03:53:42; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;28329  
 16; 1555.4; 01-AUG-2007 03:56:05; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;28329  
 17; 2144.9; 01-AUG-2007 04:05:54; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;28329  
 18; 2569.7; 01-AUG-2007 04:12:59; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;28329  
 19; 2796.5; 01-AUG-2007 04:16:46; Bright; 36.0; 69; 33Gam Dra ; 2.23; 3800;occ; 72; 0;28329  
 20; 3035.5; 01-AUG-2007 04:20:45; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;28329  
 21; 3285.2; 01-AUG-2007 04:24:55; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;28329  
 22; 3441.2; 01-AUG-2007 04:27:31; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28329

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20070801\_044022\_000053012060\_00219\_28329\_4076.N1

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 2; -1689.8; 01-AUG-2007 04:42:36; Bright; 33.5; 107; 37The Aur ; 2.65; 11000;occ; 67; 0;28329  
 3; -1397.3; 01-AUG-2007 04:47:28; Dark ; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;28329  
 4; -1177.7; 01-AUG-2007 04:51:08; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;28329  
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 7; -781.2; 01-AUG-2007 04:57:44; Dark ; 41.0; 47; 2Bet CMa ; 1.98; 28000;occ; 82; 0;28329  
 8; -680.0; 01-AUG-2007 04:59:26; Dark ; 39.0; 139; 9Bet Lep ; 2.83; 5600;occ; 78; 0;28329  
 9; -580.0; 01-AUG-2007 05:01:06; Dark ; 37.0; 177; 1Zet CMa ; 3.02; 26000;occ; 74; 0;28329  
 10; -483.3; 01-AUG-2007 05:02:42; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28329  
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 12; 425.1; 01-AUG-2007 05:17:51; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;28330  
 13; 716.8; 01-AUG-2007 05:22:42; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;28330  
 14; 910.5; 01-AUG-2007 05:25:56; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;28330  
 15; 1412.8; 01-AUG-2007 05:34:18; Dark ; 47.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 94; 0;28330  
 16; 1555.7; 01-AUG-2007 05:36:41; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;28330  
 17; 2145.1; 01-AUG-2007 05:46:31; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;28330  
 18; 2569.7; 01-AUG-2007 05:53:35; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;28330  
 19; 2796.7; 01-AUG-2007 05:57:22; Bright; 37.5; 69; 33Gam Dra ; 2.23; 3800;occ; 75; 0;28330  
 20; 3035.9; 01-AUG-2007 06:01:21; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;28330  
 21; 3285.4; 01-AUG-2007 06:05:31; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;28330  
 22; 3441.2; 01-AUG-2007 06:08:07; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28330

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20070801\_203943\_000038802060\_00229\_28339\_4077.N1

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

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

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20070801\_214345\_000061812060\_00229\_28339\_4078.N1

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3; -578.3; 01-AUG-2007 21:47:07; Dark ; 37.0; 177; 1Zet CMA ; 3.02; 26000;occ; 74; 0;28339  
4; -481.5; 01-AUG-2007 21:48:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28339  
5; 274.2; 01-AUG-2007 22:01:19; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;28340  
6; 427.5; 01-AUG-2007 22:03:52; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;28340  
7; 720.9; 01-AUG-2007 22:08:46; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;28340  
8; 913.0; 01-AUG-2007 22:11:58; Dark ; 37.5; 45; Alp Pav ; 1.94; 26000;occ; 75; 0;28340  
9; 1414.5; 01-AUG-2007 22:20:19; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;28340  
10; 1557.2; 01-AUG-2007 22:22:42; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;28340  
11; 2145.4; 01-AUG-2007 22:32:30; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;28340  
12; 2570.4; 01-AUG-2007 22:39:35; Bright; 34.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 68; 0;28340  
13; 2798.2; 01-AUG-2007 22:43:23; Bright; 33.0; 69; 33Gam Dra ; 2.23; 3800;occ; 66; 0;28340  
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15; 3441.0; 01-AUG-2007 22:54:06; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28340  
16; 4213.0; 01-AUG-2007 23:06:58; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;28340  
17; 4347.5; 01-AUG-2007 23:09:12; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28340  
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22; 5256.8; 01-AUG-2007 23:24:22; Dark ; 39.5; 47; 2Bet CMA ; 1.98; 28000;occ; 79; 0;28340  
23; 5360.2; 01-AUG-2007 23:26:05; Dark ; 42.0; 139; 9Bet Lep ; 2.83; 5600;occ; 84; 0;28340

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20070801\_232605\_000060432060\_00230\_28340\_4079.N1

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16; 4347.7; 02-AUG-2007 00:49:48; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;28341  
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21; 5257.0; 02-AUG-2007 01:04:58; Dark ; 40.5; 47; 2Bet CMA ; 1.98; 28000;occ; 81; 0;28341  
22; 5360.6; 02-AUG-2007 01:06:41; Dark ; 7.5; 139; 9Bet Lep ; 2.83; 5600;occ; 15; 0;28341

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 9; 4346.8; 01-AUG-2007 13:05:36; Bright; 33.5; 107; 37The Aur ; 2.65; 11000;occ; 67; 0;28334  
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 6; 2991.2; 24-AUG-2007 15:41:12; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;28665
 7; 3436.6; 24-AUG-2007 15:48:37; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28665
 8; 4436.6; 24-AUG-2007 16:05:17; Bright; 35.0; 24; 66Alp Gem ; 1.58; 10200;occ; 70; 0;28665
 9; 4844.1; 24-AUG-2007 16:12:05; Dark ; 39.0; 153; 3Bet CMi ; 2.89; 13100;occ; 78; 0;28665
10; 5314.6; 24-AUG-2007 16:19:55; Dark ; 44.5; 1; 9Alp CMa ; -1.44; 11000;occ; 89; 0;28665
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16; 6570.1; 24-AUG-2007 16:40:51; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;28665
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5; 1804.6; 29-AUG-2007 19:25:43; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;28739
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8; 2486.4; 29-AUG-2007 19:37:05; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;28739
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13; 4603.4; 29-AUG-2007 20:12:22; Dark ; 45.5; 170; 27Eps Gem ; 3.00; 9700;occ; 91; 0;28739
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 3; 2077.5; 30-AUG-2007 07:14:28; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28746  
 4; 2486.6; 30-AUG-2007 07:21:17; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;28746  
 5; 2677.5; 30-AUG-2007 07:24:28; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28746  
 6; 2979.1; 30-AUG-2007 07:29:29; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;28746  
 7; 3435.2; 30-AUG-2007 07:37:06; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28746  
 8; 4448.3; 30-AUG-2007 07:53:59; Bright; 33.5; 24; 66Alp Gem ; 1.58; 10200;occ; 67; 0;28746  
 9; 4604.9; 30-AUG-2007 07:56:35; Dark ; 46.0; 170; 27Eps Gem ; 3.00; 9700;occ; 92; 0;28746  
 10; 4780.8; 30-AUG-2007 07:59:31; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;28746  
 11; 4905.5; 30-AUG-2007 08:01:36; Dark ; 41.5; 8; 10Alp CMi ; 0.40; 6500;occ; 83; 0;28746  
 12; 5356.1; 30-AUG-2007 08:09:06; Dark ; 53.5; 1; 9Alp CMa ; -1.44; 11000;occ; 107; 0;28746  
 13; 5436.5; 30-AUG-2007 08:10:27; Dark ; 39.5; 179; 240mi2CMa ; 3.03; 24000;occ; 79; 0;28746  
 14; 5524.6; 30-AUG-2007 08:11:55; Dark ; 44.0; 23; 21Eps CMa ; 1.50; 26000;occ; 88; 0;28746  
 15; 5619.6; 30-AUG-2007 08:13:30; Dark ; 41.0; 177; 1Zet CMa ; 3.02; 26000;occ; 82; 0;28746  
 16; 5715.9; 30-AUG-2007 08:15:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28746  
 17; 6546.5; 30-AUG-2007 08:28:57; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28746  
 18; 6621.6; 30-AUG-2007 08:30:12; Dark ; 56.0; 9; Alp Eri ; 0.45; 24000;occ; 112; 0;28746  
 19; 6979.6; 30-AUG-2007 08:36:10; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;28746  
 20; 7077.2; 30-AUG-2007 08:37:47; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;28746  
 21; 7357.0; 30-AUG-2007 08:42:27; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28746  
 22; 7651.5; 30-AUG-2007 08:47:22; Dark ; 45.5; 142; 49Del Cap ; 2.85; 8900;occ; 91; 0;28746  
 23; 7841.2; 30-AUG-2007 08:50:31; Bright; 16.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 32; 0;28746

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1; 1805.3; 30-AUG-2007 08:50:31; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28747  
 2; 1896.8; 30-AUG-2007 08:52:03; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28747  
 3; 2077.4; 30-AUG-2007 08:55:04; Bright; 39.5; 61; 8Eps Peg ; 2.10; 3900;occ; 79; 0;28747  
 4; 2486.6; 30-AUG-2007 09:01:53; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;28747



5; 2677.5; 30-AUG-2007 09:05:04; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;28747  
6; 2979.0; 30-AUG-2007 09:10:05; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28747  
7; 3435.2; 30-AUG-2007 09:17:41; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;28747  
8; 4448.5; 30-AUG-2007 09:34:35; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28747  
9; 4605.1; 30-AUG-2007 09:37:11; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28747  
10; 4781.2; 30-AUG-2007 09:40:07; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;28747  
11; 4905.8; 30-AUG-2007 09:42:12; Dark ; 41.0; 8; 10Alp CMi ; 0.40; 6500;occ; 82; 0;28747  
12; 5356.6; 30-AUG-2007 09:49:43; Dark ; 52.0; 1; 9Alp CMa ; -1.44; 11000;occ; 104; 0;28747  
13; 5436.8; 30-AUG-2007 09:51:03; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;28747  
14; 5525.1; 30-AUG-2007 09:52:31; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;28747  
15; 5620.3; 30-AUG-2007 09:54:07; Dark ; 42.5; 177; 1Zet CMa ; 3.02; 26000;occ; 85; 0;28747  
16; 5716.5; 30-AUG-2007 09:55:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28747  
17; 6547.1; 30-AUG-2007 10:09:33; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28747  
18; 6622.2; 30-AUG-2007 10:10:48; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28747  
19; 6980.2; 30-AUG-2007 10:16:46; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;28747  
20; 7077.5; 30-AUG-2007 10:18:24; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;28747  
21; 7357.2; 30-AUG-2007 10:23:03; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28747  
22; 7651.6; 30-AUG-2007 10:27:58; Dark ; 38.0; 142; 49Del Cap ; 2.85; 8900;occ; 76; 0;28747

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1; 1805.3; 30-AUG-2007 10:31:07; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28748  
2; 1896.7; 30-AUG-2007 10:32:39; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28748  
3; 2077.3; 30-AUG-2007 10:35:39; Bright; 37.0; 61; 8Eps Peg ; 2.10; 3900;occ; 74; 0;28748  
4; 2486.4; 30-AUG-2007 10:42:29; Bright; 34.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 68; 0;28748  
5; 2677.5; 30-AUG-2007 10:45:40; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;28748  
6; 2979.0; 30-AUG-2007 10:50:41; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28748  
7; 3435.2; 30-AUG-2007 10:58:17; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28748  
8; 4448.6; 30-AUG-2007 11:15:11; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28748  
9; 4605.3; 30-AUG-2007 11:17:47; Dark ; 49.5; 170; 27Eps Gem ; 3.00; 9700;occ; 99; 0;28748  
10; 4781.4; 30-AUG-2007 11:20:44; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28748  
11; 4906.1; 30-AUG-2007 11:22:48; Dark ; 43.5; 8; 10Alp CMi ; 0.40; 6500;occ; 87; 0;28748  
12; 5357.1; 30-AUG-2007 11:30:19; Dark ; 46.5; 1; 9Alp CMa ; -1.44; 11000;occ; 93; 0;28748  
13; 5437.3; 30-AUG-2007 11:31:39; Dark ; 38.0; 179; 240mi2CMa ; 3.03; 24000;occ; 76; 0;28748  
14; 5525.5; 30-AUG-2007 11:33:08; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;28748  
15; 5621.0; 30-AUG-2007 11:34:43; Dark ; 39.5; 177; 1Zet CMa ; 3.02; 26000;occ; 79; 0;28748  
16; 5717.1; 30-AUG-2007 11:36:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28748  
17; 6547.6; 30-AUG-2007 11:50:10; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28748  
18; 6622.8; 30-AUG-2007 11:51:25; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;28748  
19; 6980.7; 30-AUG-2007 11:57:23; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;28748  
20; 7077.7; 30-AUG-2007 11:59:00; Dark ; 43.5; 63; Bet Gru ; 2.15; 2800;occ; 87; 0;28748  
21; 7357.4; 30-AUG-2007 12:03:40; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;28748  
22; 7651.7; 30-AUG-2007 12:08:34; Dark ; 45.5; 142; 49Del Cap ; 2.85; 8900;occ; 91; 0;28748

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1; 1619.8; 30-AUG-2007 12:08:38; Dark ; 49.5; 142; 49Del Cap ; 2.85; 8900;occ; 99; 8;28749  
2; 1805.4; 30-AUG-2007 12:11:43; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28749  
3; 1896.7; 30-AUG-2007 12:13:15; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28749  
4; 2077.3; 30-AUG-2007 12:16:15; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28749  
5; 2486.5; 30-AUG-2007 12:23:04; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;28749  
6; 2677.6; 30-AUG-2007 12:26:16; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;28749  
7; 2978.8; 30-AUG-2007 12:31:17; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28749  
8; 3435.1; 30-AUG-2007 12:38:53; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28749  
9; 4448.6; 30-AUG-2007 12:55:47; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28749  
10; 4605.6; 30-AUG-2007 12:58:24; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28749  
11; 4781.9; 30-AUG-2007 13:01:20; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28749  
12; 4906.4; 30-AUG-2007 13:03:24; Dark ; 51.0; 8; 10Alp CMi ; 0.40; 6500;occ; 102; 0;28749  
13; 5357.8; 30-AUG-2007 13:10:56; Dark ; 46.0; 1; 9Alp CMa ; -1.44; 11000;occ; 92; 0;28749  
14; 5438.0; 30-AUG-2007 13:12:16; Dark ; 40.0; 179; 240mi2CMa ; 3.03; 24000;occ; 80; 0;28749  
15; 5526.1; 30-AUG-2007 13:13:44; Dark ; 41.5; 23; 21Eps CMa ; 1.50; 26000;occ; 83; 0;28749  
16; 5621.8; 30-AUG-2007 13:15:20; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28749  
17; 5717.7; 30-AUG-2007 13:16:56; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28749  
18; 6548.2; 30-AUG-2007 13:30:46; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28749  
19; 6623.4; 30-AUG-2007 13:32:01; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28749  
20; 6981.3; 30-AUG-2007 13:37:59; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;28749  
21; 7078.1; 30-AUG-2007 13:39:36; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;28749  
22; 7357.9; 30-AUG-2007 13:44:16; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;28749

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1; 1616.1; 30-AUG-2007 13:49:10; Dark ; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;28750  
2; 1805.6; 30-AUG-2007 13:52:19; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28750  
3; 1896.6; 30-AUG-2007 13:53:50; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28750

4; 2077.3; 30-AUG-2007 13:56:51; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28750  
5; 2486.7; 30-AUG-2007 14:03:40; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28750  
6; 2677.6; 30-AUG-2007 14:06:51; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28750  
7; 2978.7; 30-AUG-2007 14:11:53; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28750  
8; 3435.3; 30-AUG-2007 14:19:29; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28750  
9; 4448.9; 30-AUG-2007 14:36:23; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28750  
10; 4605.9; 30-AUG-2007 14:39:00; Dark ; 47.5; 170; 27Eps Gem ; 3.00; 9700;occ; 95; 0;28750  
11; 4782.3; 30-AUG-2007 14:41:56; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;28750  
12; 4906.8; 30-AUG-2007 14:44:01; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;28750  
13; 5358.4; 30-AUG-2007 14:51:32; Dark ; 51.0; 1; 9Alp CMa ; -1.44; 11000;occ; 102; 0;28750  
14; 5438.3; 30-AUG-2007 14:52:52; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;28750  
15; 5526.6; 30-AUG-2007 14:54:20; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;28750  
16; 5622.3; 30-AUG-2007 14:55:56; Dark ; 41.0; 177; 1Zet CMa ; 3.02; 26000;occ; 82; 0;28750  
17; 5718.4; 30-AUG-2007 14:57:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28750  
18; 6548.9; 30-AUG-2007 15:11:23; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28750  
19; 6624.1; 30-AUG-2007 15:12:38; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28750  
20; 6982.1; 30-AUG-2007 15:18:36; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;28750  
21; 7078.5; 30-AUG-2007 15:20:12; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 0;28750

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1; 1322.3; 30-AUG-2007 15:24:52; Dark ; 53.0; 18; 24Alp PsA ; 1.17; 9700;occ; 106; 0;28751  
2; 1616.3; 30-AUG-2007 15:29:46; Dark ; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;28751  
3; 1805.7; 30-AUG-2007 15:32:55; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28751  
4; 1896.6; 30-AUG-2007 15:34:26; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28751  
5; 2077.2; 30-AUG-2007 15:37:27; Bright; 40.0; 61; 8Eps Peg ; 2.10; 3900;occ; 80; 0;28751  
6; 2486.7; 30-AUG-2007 15:44:16; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;28751  
7; 2677.6; 30-AUG-2007 15:47:27; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28751  
8; 2978.7; 30-AUG-2007 15:52:28; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;28751  
9; 3435.3; 30-AUG-2007 16:00:05; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28751  
10; 4449.0; 30-AUG-2007 16:16:59; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28751  
11; 4606.1; 30-AUG-2007 16:19:36; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28751  
12; 4782.8; 30-AUG-2007 16:22:33; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;28751  
13; 4907.1; 30-AUG-2007 16:24:37; Dark ; 51.5; 8; 10Alp CMi ; 0.40; 6500;occ; 103; 0;28751  
14; 5359.0; 30-AUG-2007 16:32:09; Dark ; 47.5; 1; 9Alp CMa ; -1.44; 11000;occ; 95; 0;28751  
15; 5438.9; 30-AUG-2007 16:33:29; Dark ; 40.0; 179; 240mi2CMa ; 3.03; 24000;occ; 80; 0;28751  
16; 5527.1; 30-AUG-2007 16:34:57; Dark ; 44.0; 23; 21Eps CMa ; 1.50; 26000;occ; 88; 0;28751  
17; 5623.0; 30-AUG-2007 16:36:33; Dark ; 41.0; 177; 1Zet CMa ; 3.02; 26000;occ; 82; 0;28751  
18; 5719.1; 30-AUG-2007 16:38:09; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28751  
19; 6549.3; 30-AUG-2007 16:51:59; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;28751  
20; 6624.8; 30-AUG-2007 16:53:15; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;28751  
21; 6982.8; 30-AUG-2007 16:59:13; Dark ; 57.5; 84; Alp Phe ; 2.40; 4500;occ; 115; 0;28751  
22; 7078.9; 30-AUG-2007 17:00:49; Dark ; 46.0; 63; Bet Gru ; 2.15; 2800;occ; 92; 0;28751

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3; 1805.6; 30-AUG-2007 17:13:31; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28752  
4; 1896.7; 30-AUG-2007 17:15:02; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28752  
5; 2077.1; 30-AUG-2007 17:18:03; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28752  
6; 2486.7; 30-AUG-2007 17:24:52; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28752  
7; 2677.6; 30-AUG-2007 17:28:03; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;28752  
8; 2978.5; 30-AUG-2007 17:33:04; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;28752  
9; 3435.2; 30-AUG-2007 17:40:41; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28752  
10; 4449.2; 30-AUG-2007 17:57:35; Bright; 36.0; 24; 66Alp Gem ; 1.58; 10200;occ; 72; 0;28752  
11; 4606.4; 30-AUG-2007 18:00:12; Dark ; 47.0; 170; 27Eps Gem ; 3.00; 9700;occ; 94; 0;28752  
12; 4783.1; 30-AUG-2007 18:03:09; Dark ; 49.0; 44; 24Gam Gem ; 1.93; 11000;occ; 98; 0;28752  
13; 4907.4; 30-AUG-2007 18:05:13; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;28752  
14; 5359.6; 30-AUG-2007 18:12:45; Dark ; 51.5; 1; 9Alp CMa ; -1.44; 11000;occ; 103; 0;28752  
15; 5439.4; 30-AUG-2007 18:14:05; Dark ; 40.0; 179; 240mi2CMa ; 3.03; 24000;occ; 80; 0;28752  
16; 5527.6; 30-AUG-2007 18:15:33; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;28752  
17; 5623.8; 30-AUG-2007 18:17:10; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28752  
18; 5719.7; 30-AUG-2007 18:18:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28752  
19; 6550.1; 30-AUG-2007 18:32:36; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28752  
20; 6625.4; 30-AUG-2007 18:33:51; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;28752  
21; 6983.4; 30-AUG-2007 18:39:49; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;28752  
22; 7079.2; 30-AUG-2007 18:41:25; Dark ; 39.5; 63; Bet Gru ; 2.15; 2800;occ; 79; 0;28752

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12; 4451.2; 31-AUG-2007 19:06:36; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28767
13; 4609.9; 31-AUG-2007 19:09:15; Dark ; 49.0; 170; 27Eps Gem ; 3.00; 9700;occ; 98; 0;28767
14; 4788.5; 31-AUG-2007 19:12:13; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;28767
15; 4911.7; 31-AUG-2007 19:14:16; Dark ; 45.5; 8; 10Alp CMi ; 0.40; 6500;occ; 91; 0;28767
16; 5368.3; 31-AUG-2007 19:21:53; Dark ; 54.0; 1; 9Alp CMa ; -1.44; 11000;occ; 108; 0;28767
17; 5534.9; 31-AUG-2007 19:24:40; Dark ; 43.5; 23; 21Eps CMa ; 1.50; 26000;occ; 87; 0;28767
18; 5633.9; 31-AUG-2007 19:26:19; Dark ; 42.0; 177; 1Zet CMa ; 3.02; 26000;occ; 84; 0;28767
19; 5729.2; 31-AUG-2007 19:27:54; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28767
20; 6558.1; 31-AUG-2007 19:41:43; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28767
21; 6634.5; 31-AUG-2007 19:42:59; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;28767
22; 6992.3; 31-AUG-2007 19:48:57; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;28767

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