

# GOMOS Daily Report 31-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	02SEP2007 05:34:38
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (31AUG2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (01SEP2007 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)

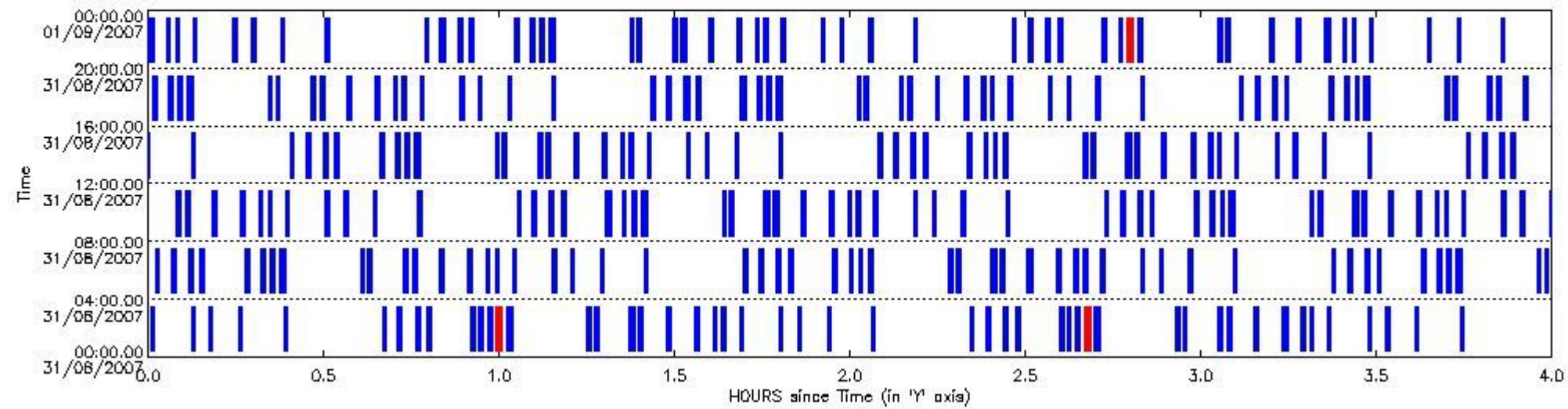
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

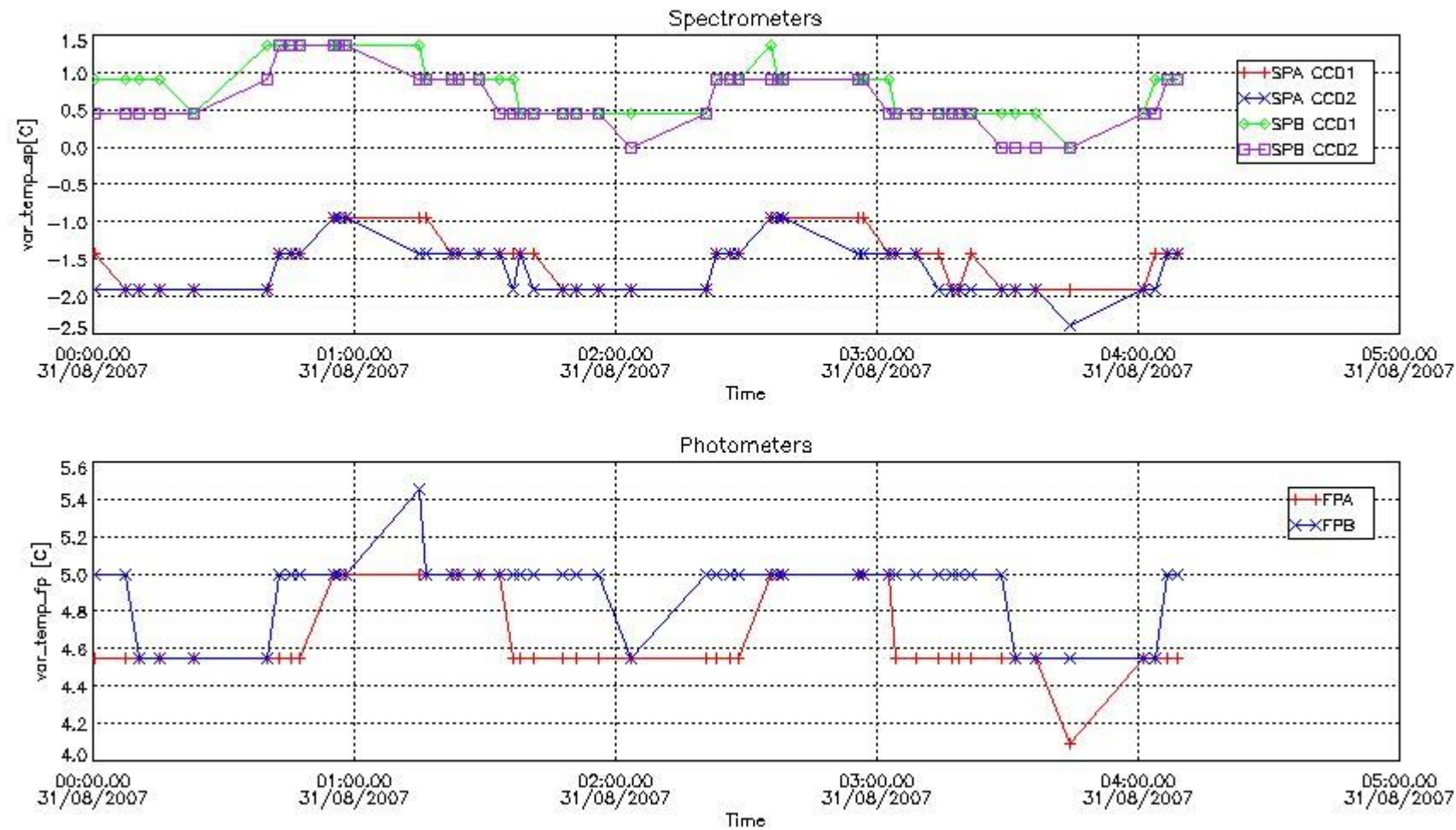
UTC start time	Star name	Star ID	Orbit
31-AUG-2007 00:59:29	1ZetCMa	177	28756
31-AUG-2007 02:40:05	1ZetCMa	177	28757
31-AUG-2007 22:47:25	1ZetCMa	177	28769

### 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_1PNPDE20070831_000026_000000392061_00145_28756_8337.N1	31-AUG-2007 00:00:26	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	28756	No
2	GOM_TRA_1PNPDE20070831_000716_000000382061_00145_28756_8338.N1	31-AUG-2007 00:07:16	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	28756	No
3	GOM_TRA_1PNPDE20070831_001027_000000342061_00145_28756_8339.N1	31-AUG-2007 00:10:27	Bright	33.500	19	50Alp Cyg	1.2460	10500.	67	28756	No
4	GOM_TRA_1PNPDE20070831_001527_000000372061_00145_28756_8340.N1	31-AUG-2007 00:15:27	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	28756	No
5	GOM_TRA_1PNPDE20070831_002304_000000332061_00145_28756_8341.N1	31-AUG-2007 00:23:04	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	28756	No
6	GOM_TRA_1PNPDE20070831_003959_000000382061_00145_28756_8342.N1	31-AUG-2007 00:39:59	Bright	38.000	24	66Alp Gem	1.5800	10200.	76	28756	No
7	GOM_TRA_1PNPDE20070831_004237_000000472061_00145_28756_8343.N1	31-AUG-2007 00:42:37	Bright	47.000	170	27Eps Gem	3.0000	9700.0	94	28756	No
8	GOM_TRA_1PNPDE20070831_004534_000000502061_00145_28756_8344.N1	31-AUG-2007 00:45:34	Tw_i_and_stray	50.000	44	24Gam Gem	1.9280	11000.	100	28756	No

9	GOM_TRA_1PNPDE20070831_004738_000000492061_00145_28756_8345.N1	31-AUG-2007 00:47:38	Twilight	48.500	8	10Alp CMI	0.40000	6500.0	97	28756	No
10	GOM_TRA_1PNPDE20070831_005511_000000492061_00145_28756_8447.N1	31-AUG-2007 00:55:11	Dark	49.000	1	9Alp CMA	-1.4400	11000.	98	28756	No
11	GOM_TRA_1PNPDE20070831_005630_000000402061_00145_28756_8448.N1	31-AUG-2007 00:56:30	Dark	40.000	179	24Omi2CMA	3.0320	24000.	80	28756	No
12	GOM_TRA_1PNPDE20070831_005759_000000432061_00145_28756_8449.N1	31-AUG-2007 00:57:59	Dark	43.000	23	21Eps CMA	1.5020	26000.	86	28756	No
13	GOM_TRA_1PNPDE20070831_011501_000000422061_00146_28757_8450.N1	31-AUG-2007 01:15:01	Dark	41.500	143	Alp Hyi	2.8570	7200.0	83	28757	No
14	GOM_TRA_1PNPDE20070831_011617_000000432061_00146_28757_8451.N1	31-AUG-2007 01:16:17	Dark	43.000	9	Alp Eri	0.45300	24000.	86	28757	No
15	GOM_TRA_1PNPDE20070831_012215_000000502061_00146_28757_8452.N1	31-AUG-2007 01:22:15	Straylight	49.500	84	Alp Phe	2.3970	4500.0	99	28757	No
16	GOM_TRA_1PNPDE20070831_012350_000000492061_00146_28757_8453.N1	31-AUG-2007 01:23:50	Straylight	48.500	63	Bet Gru	2.1500	2800.0	97	28757	No
17	GOM_TRA_1PNPDE20070831_012829_000000482061_00146_28757_8454.N1	31-AUG-2007 01:28:29	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	28757	No
18	GOM_TRA_1PNPDE20070831_013322_000000432061_00146_28757_8455.N1	31-AUG-2007 01:33:22	Bright	43.000	142	49Del Cap	2.8500	8900.0	86	28757	No
19	GOM_TRA_1PNPDE20070831_013631_000000382061_00146_28757_8456.N1	31-AUG-2007 01:36:31	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	28757	No
20	GOM_TRA_1PNPDE20070831_013802_000000412061_00146_28757_8457.N1	31-AUG-2007 01:38:02	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	28757	No
21	GOM_TRA_1PNPDE20070831_014102_000000392061_00146_28757_8458.N1	31-AUG-2007 01:41:02	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	28757	No
22	GOM_TRA_1PNPDE20070831_014752_000000372061_00146_28757_8459.N1	31-AUG-2007 01:47:52	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	28757	No
23	GOM_TRA_1PNPDE20070831_015103_000000382061_00146_28757_8460.N1	31-AUG-2007 01:51:03	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	28757	No
24	GOM_TRA_1PNPDE20070831_015603_000000372061_00146_28757_8461.N1	31-AUG-2007 01:56:03	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	28757	No
25	GOM_TRA_1PNPDE20070831_020340_000000352061_00146_28757_8462.N1	31-AUG-2007 02:03:40	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	28757	No
26	GOM_TRA_1PNPDE20070831_022035_000000362061_00146_28757_8614.N1	31-AUG-2007 02:20:35	Bright	36.000	24	66Alp Gem	1.5800	10200.	72	28757	No
27	GOM_TRA_1PNPDE20070831_022313_000000512061_00146_28757_8615.N1	31-AUG-2007 02:23:13	Bright	51.000	170	27Eps Gem	3.0000	9700.0	102	28757	No
28	GOM_TRA_1PNPDE20070831_022610_000000522061_00146_28757_8616.N1	31-AUG-2007 02:26:10	Twilight	51.500	44	24Gam Gem	1.9280	11000.	103	28757	No
29	GOM_TRA_1PNPDE20070831_022814_000000532061_00146_28757_8617.N1	31-AUG-2007 02:28:14	Twilight	52.500	8	10Alp CMI	0.40000	6500.0	105	28757	No
30	GOM_TRA_1PNPDE20070831_023548_000000492061_00146_28757_8618.N1	31-AUG-2007 02:35:48	Dark	48.500	1	9Alp CMA	-1.4400	11000.	97	28757	No
31	GOM_TRA_1PNPDE20070831_023707_000000412061_00146_28757_8619.N1	31-AUG-2007 02:37:07	Dark	40.500	179	24Omi2CMA	3.0320	24000.	81	28757	No
32	GOM_TRA_1PNPDE20070831_023835_000000422061_00146_28757_8620.N1	31-AUG-2007 02:38:35	Dark	42.000	23	21Eps CMA	1.5020	26000.	84	28757	No
33	GOM_TRA_1PNPDE20070831_025538_000000412061_00147_28758_8621.N1	31-AUG-2007 02:55:38	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	28758	No
34	GOM_TRA_1PNPDE20070831_025654_000000432061_00147_28758_8622.N1	31-AUG-2007 02:56:54	Dark	42.500	9	Alp Eri	0.45300	24000.	85	28758	No
35	GOM_TRA_1PNPDE20070831_030252_000000492061_00147_28758_8623.N1	31-AUG-2007 03:02:52	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	28758	No
36	GOM_TRA_1PNPDE20070831_030426_000000472061_00147_28758_8624.N1	31-AUG-2007 03:04:26	Straylight	46.500	63	Bet Gru	2.1500	2800.0	93	28758	No
37	GOM_TRA_1PNPDE20070831_030905_000000492061_00147_28758_8625.N1	31-AUG-2007 03:09:05	Straylight	49.000	18	24Alp PsA	1.1660	9700.0	98	28758	No
38	GOM_TRA_1PNPDE20070831_031358_000000542061_00147_28758_8626.N1	31-AUG-2007 03:13:58	Bright	54.000	142	49Del Cap	2.8500	8900.0	108	28758	No
39	GOM_TRA_1PNPDE20070831_031707_000000382061_00147_28758_8627.N1	31-AUG-2007 03:17:07	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	28758	No
40	GOM_TRA_1PNPDE20070831_031838_000000412061_00147_28758_8628.N1	31-AUG-2007 03:18:38	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	28758	No
41	GOM_TRA_1PNPDE20070831_032138_000000392061_00147_28758_8629.N1	31-AUG-2007 03:21:38	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	28758	No
42	GOM_TRA_1PNPDE20070831_032828_000000382061_00147_28758_8630.N1	31-AUG-2007 03:28:28	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	28758	No
43	GOM_TRA_1PNPDE20070831_033139_000000382061_00147_28758_8631.N1	31-AUG-2007 03:31:39	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	28758	No
44	GOM_TRA_1PNPDE20070831_033639_000000342061_00147_28758_8632.N1	31-AUG-2007 03:36:39	Bright	33.500	89	5Alp Cep	2.4510	8000.0	67	28758	No
45	GOM_TRA_1PNPDE20070831_034416_000000322061_00147_28758_8633.N1	31-AUG-2007 03:44:16	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	28758	No
46	GOM_TRA_1PNPDE20070831_040111_000000422061_00147_28758_8795.N1	31-AUG-2007 04:01:11	Bright	42.000	24	66Alp Gem	1.5800	10200.	84	28758	No
47	GOM_TRA_1PNPDE20070831_040349_000000482061_00147_28758_8796.N1	31-AUG-2007 04:03:49	Bright	47.500	170	27Eps Gem	3.0000	9700.0	95	28758	No
48	GOM_TRA_1PNPDE20070831_040646_000000502061_00147_28758_8797.N1	31-AUG-2007 04:06:46	Twilight	50.000	44	24Gam Gem	1.9280	11000.	100	28758	No
49	GOM_TRA_1PNPDE20070831_040850_000000432061_00147_28758_8798.N1	31-AUG-2007 04:08:50	Twilight	42.500	8	10Alp CMI	0.40000	6500.0	85	28758	No

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



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

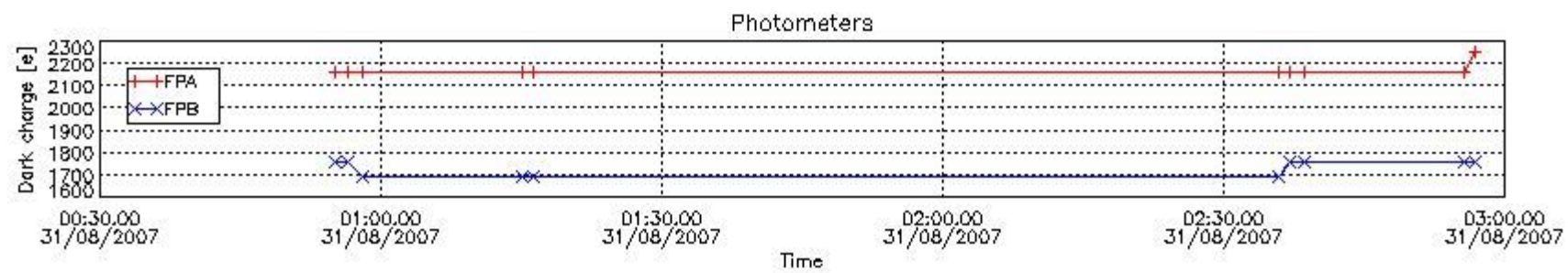
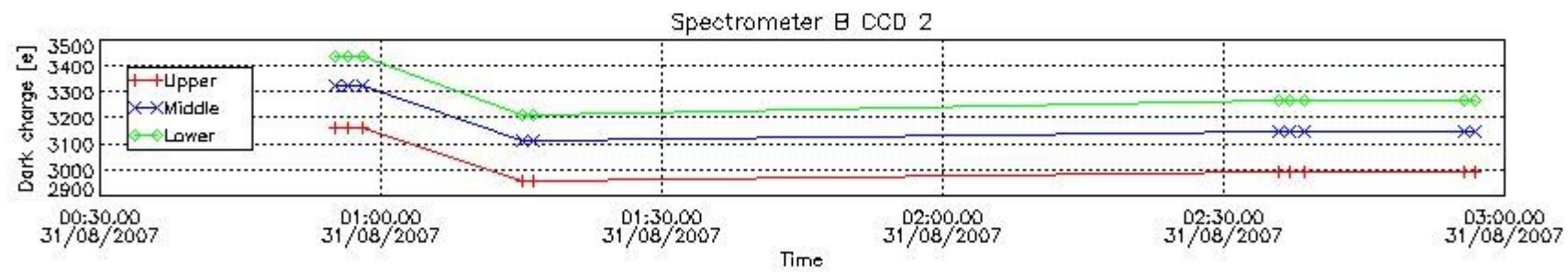
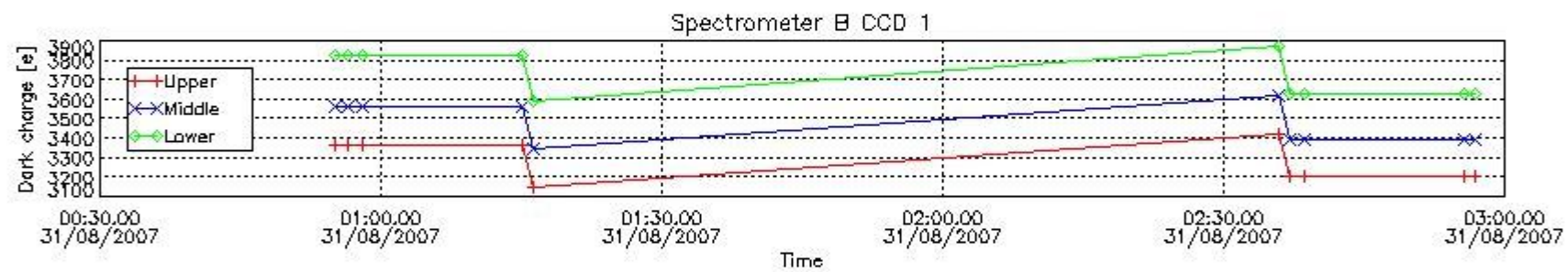
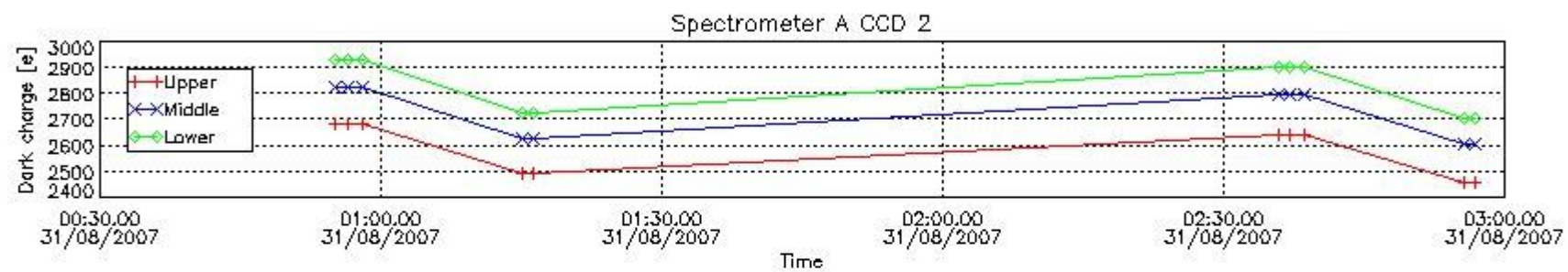
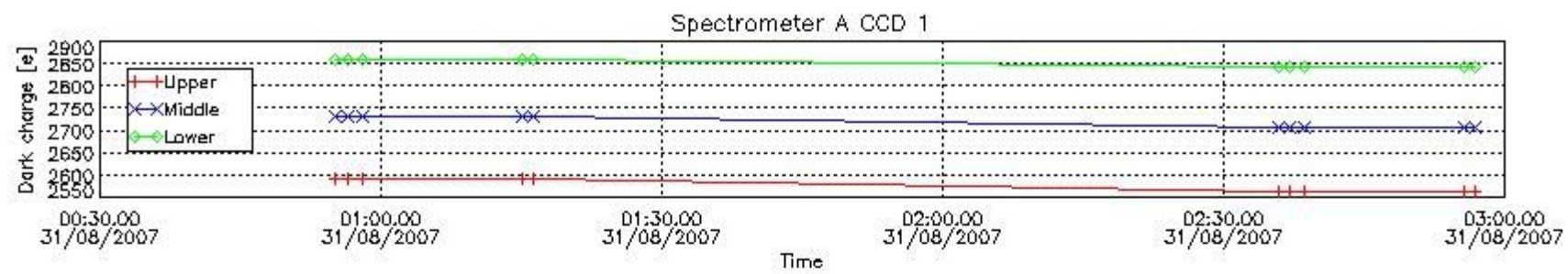
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





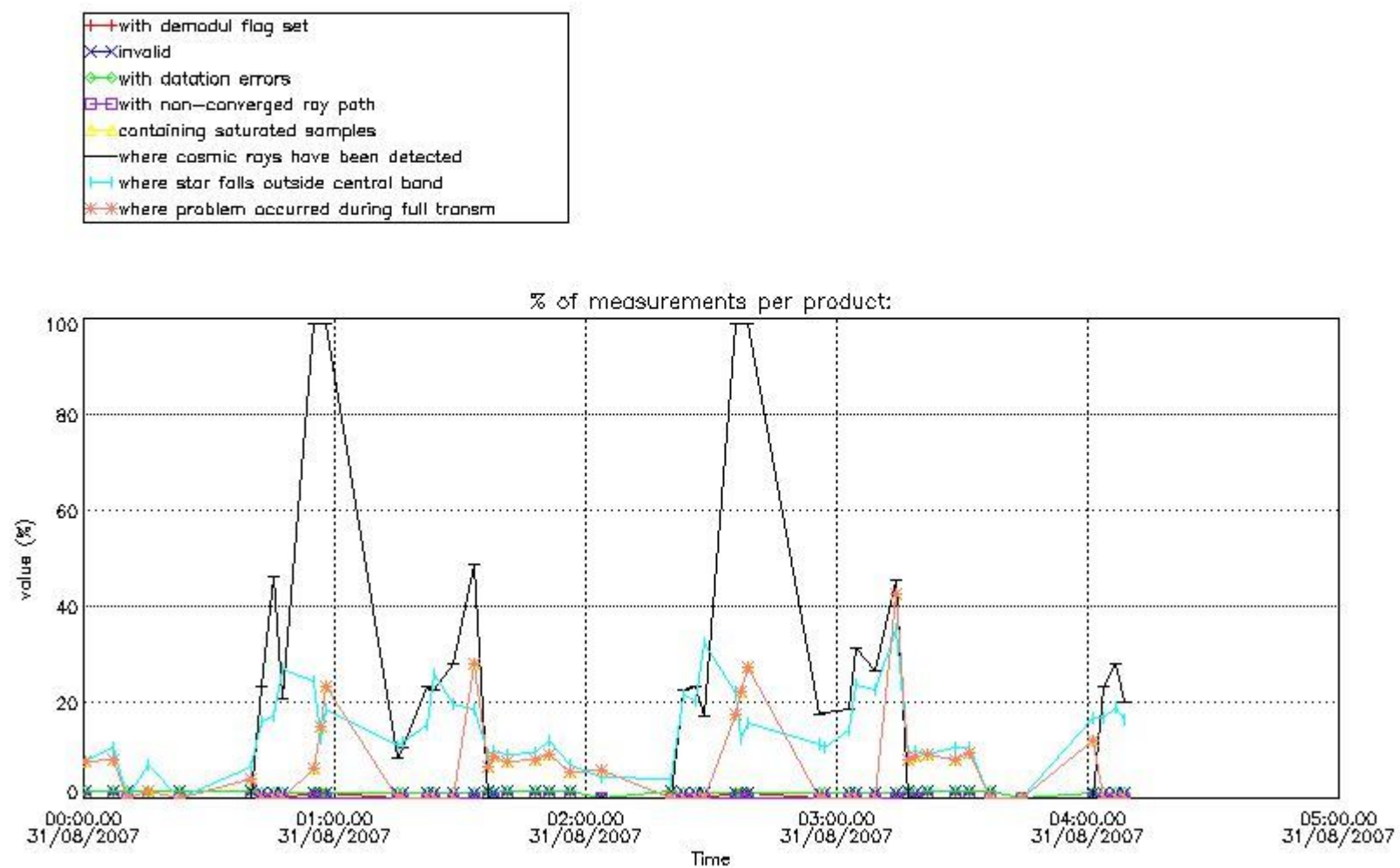
## 5. Demodulation flag and quality information monitoring

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.

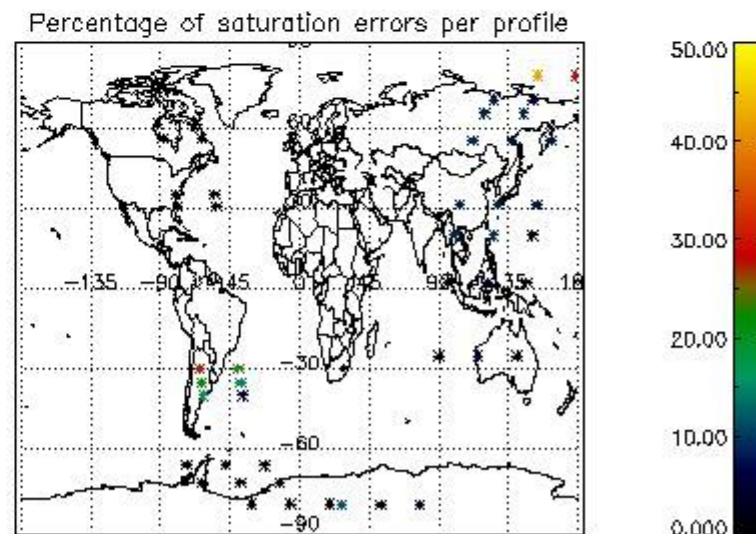
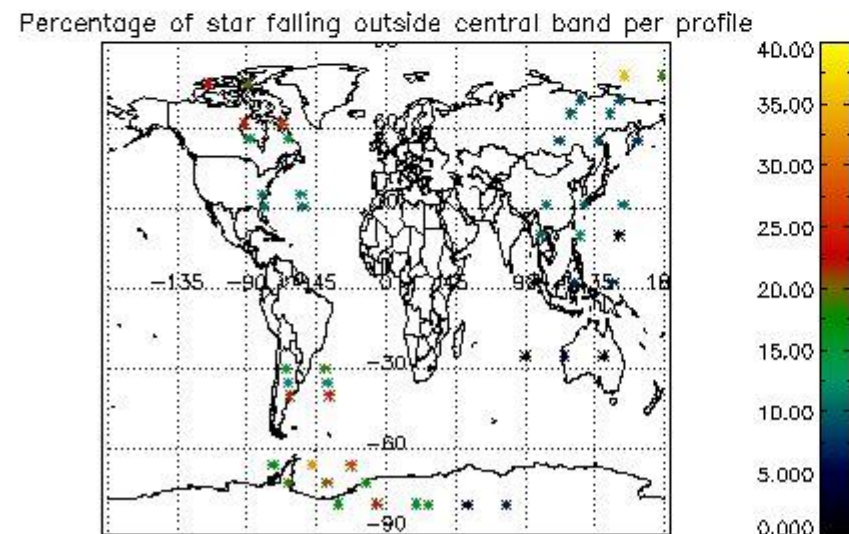
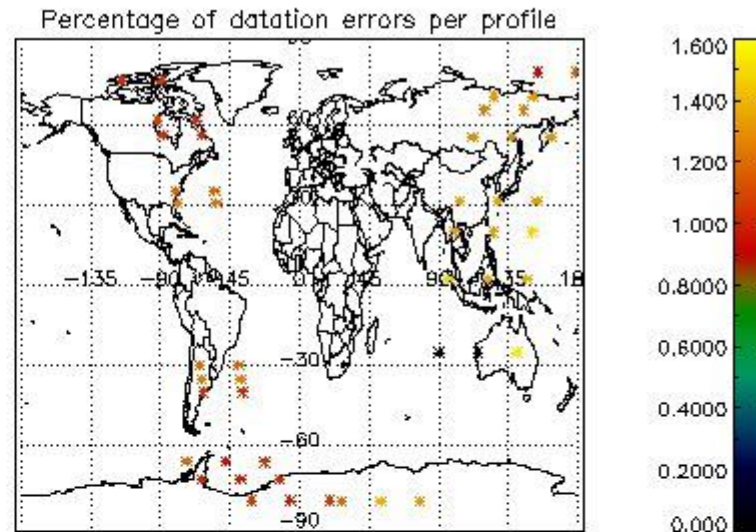
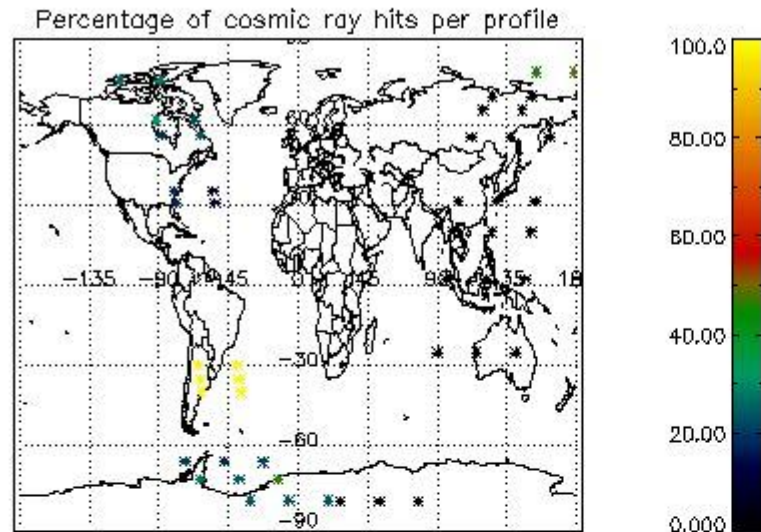
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.2857 %
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)

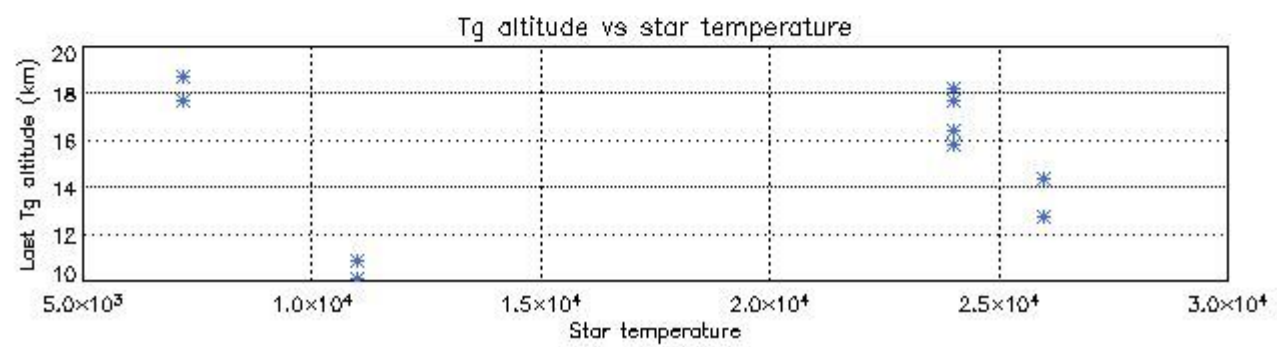
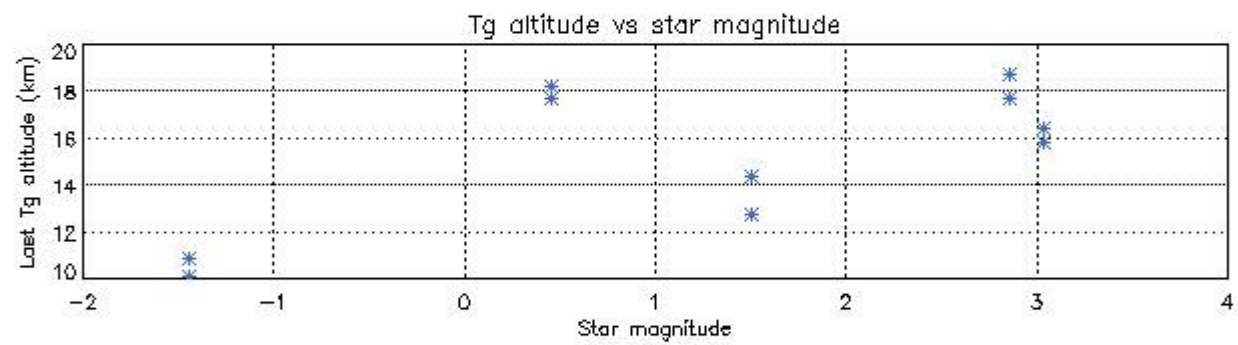
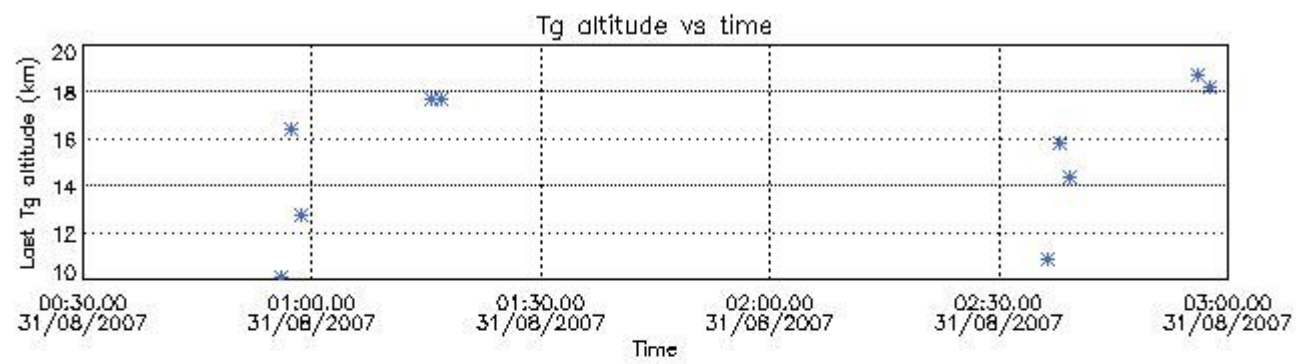
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.249	18.508	8.7989
St. deviation:	3.1226	5.5494	3.8293
Maximum:	18.727	30.277	12.959
Minimum:	10.063	3.7975	5.4210
Number of data:	10.000	27.000	3.0000

### 6.2 Plot for DARK limb products



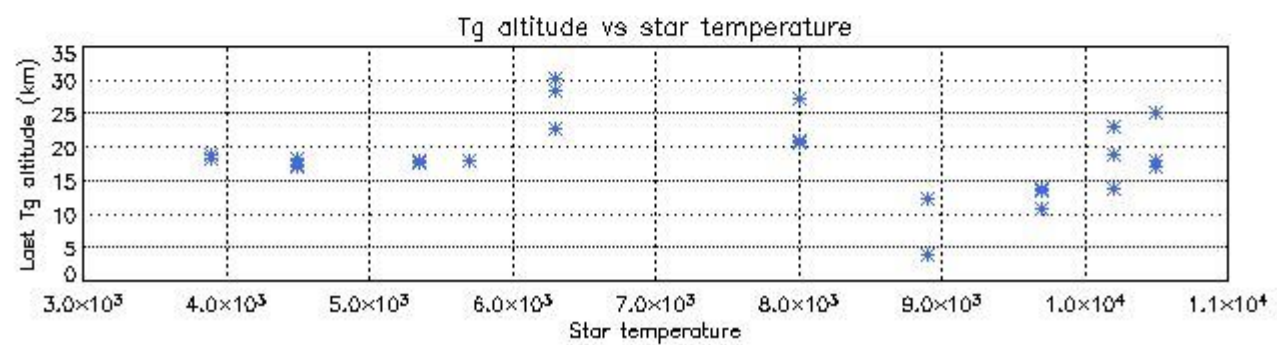
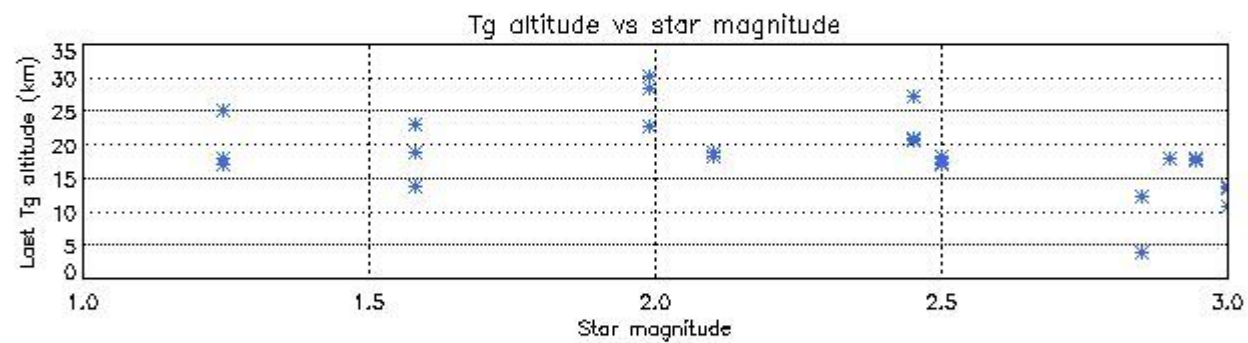
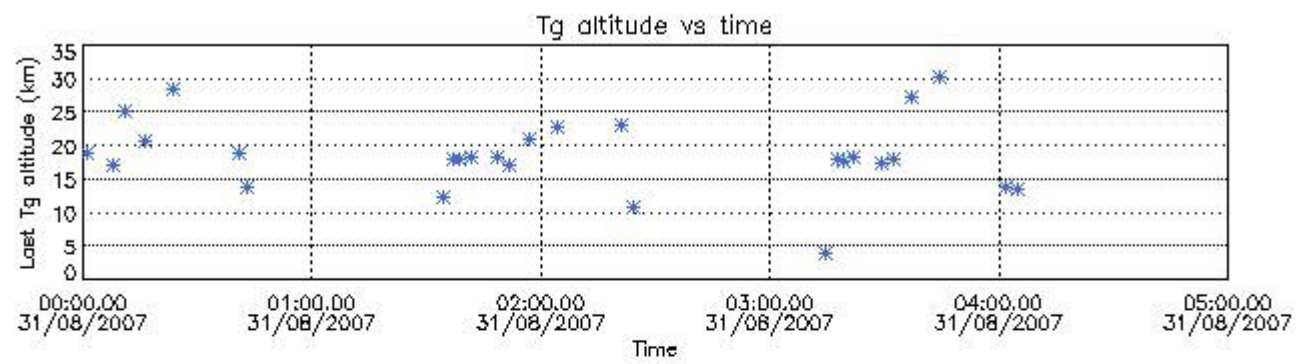
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

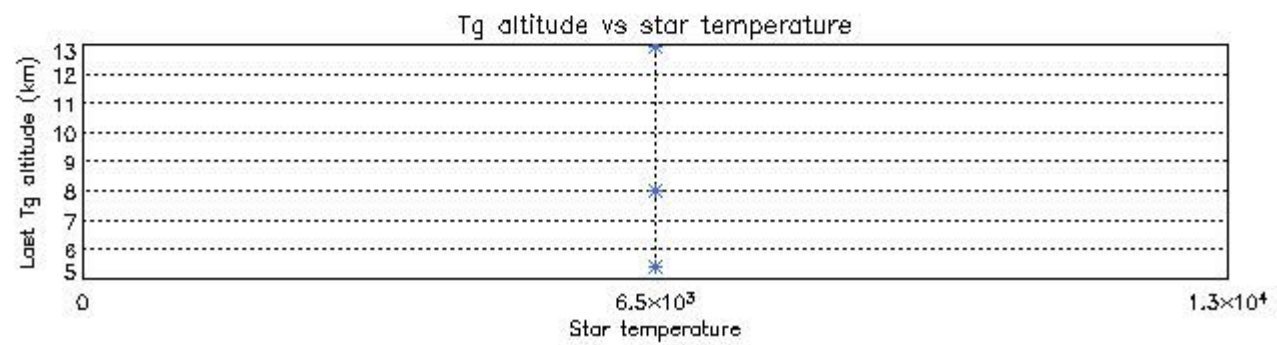
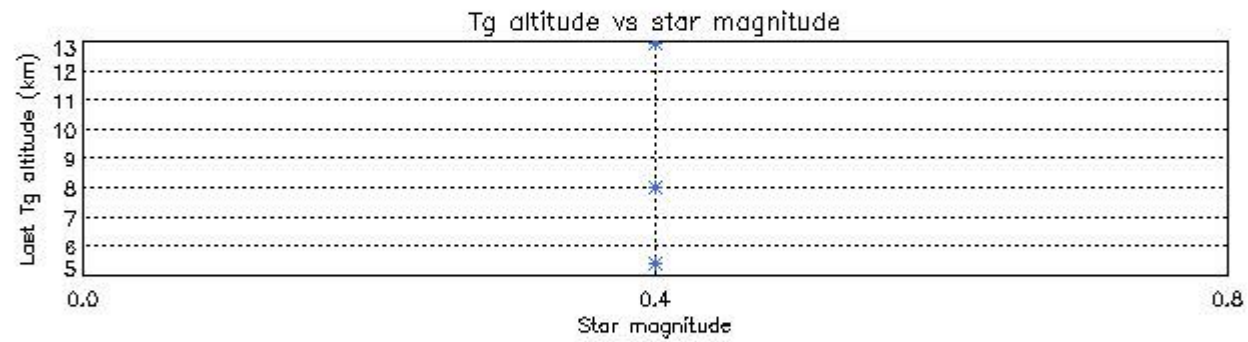
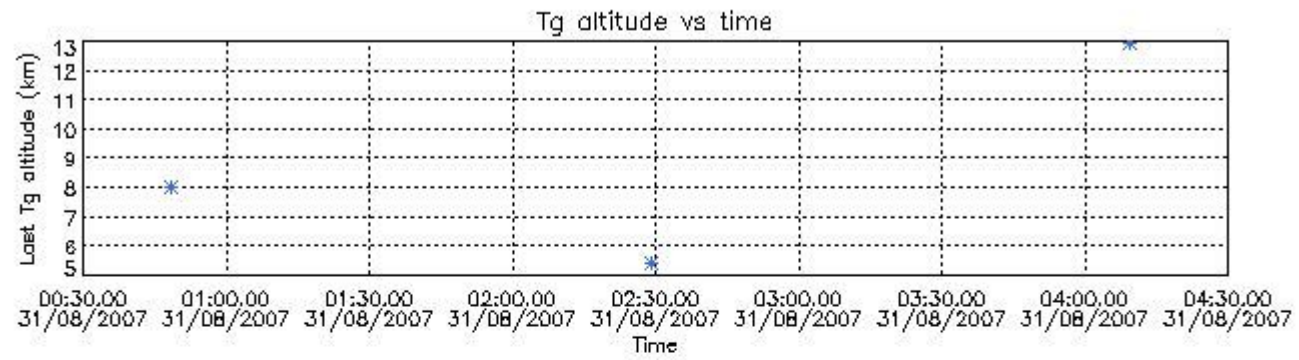


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

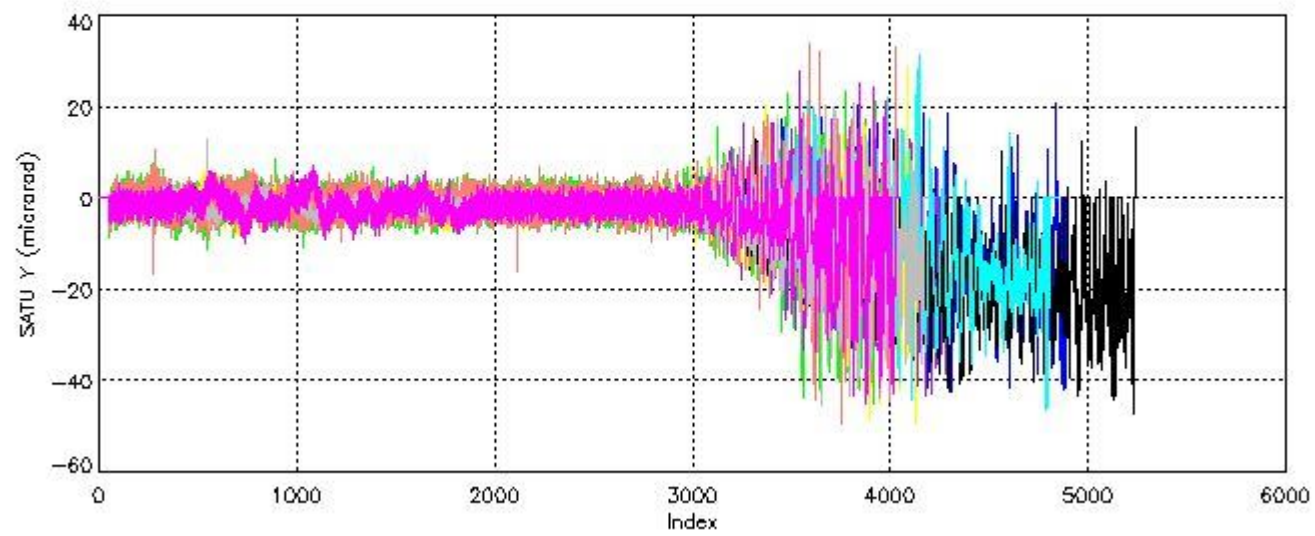
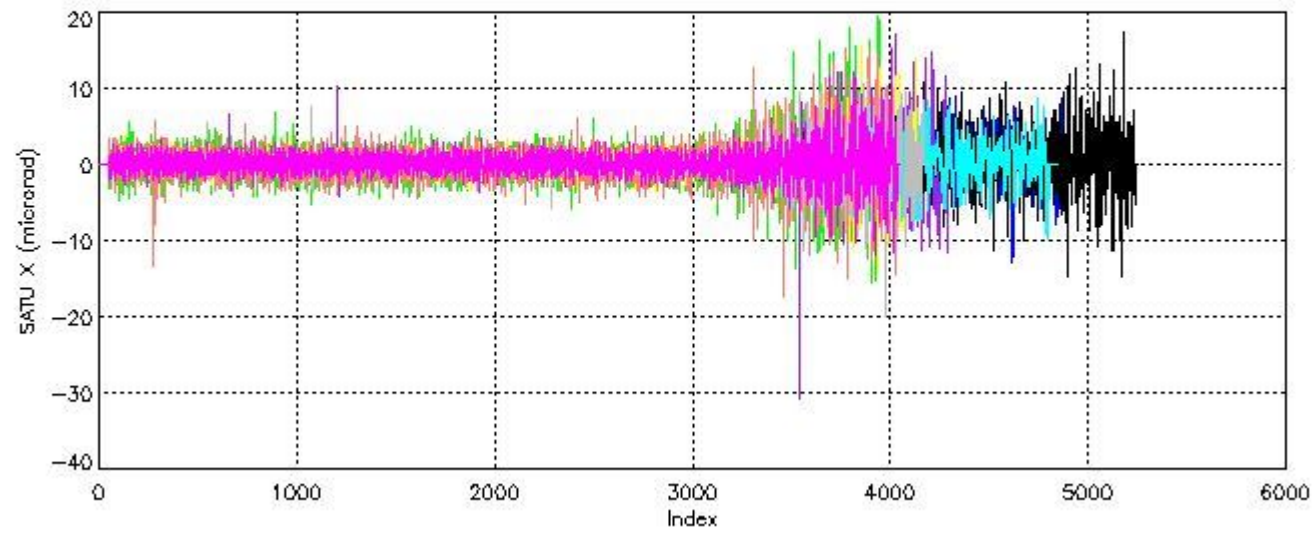


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.10418	-1.2069	0.14592	-1.2730
St. deviation:	0.72025	2.0366	0.63588	1.7081
Maximum:	6.8000	12.800	3.6000	6.5000
Minimum:	-13.500	-16.700	-3.3000	-8.3000



Number of data:	9400.0	9400.0	22750.	22750.
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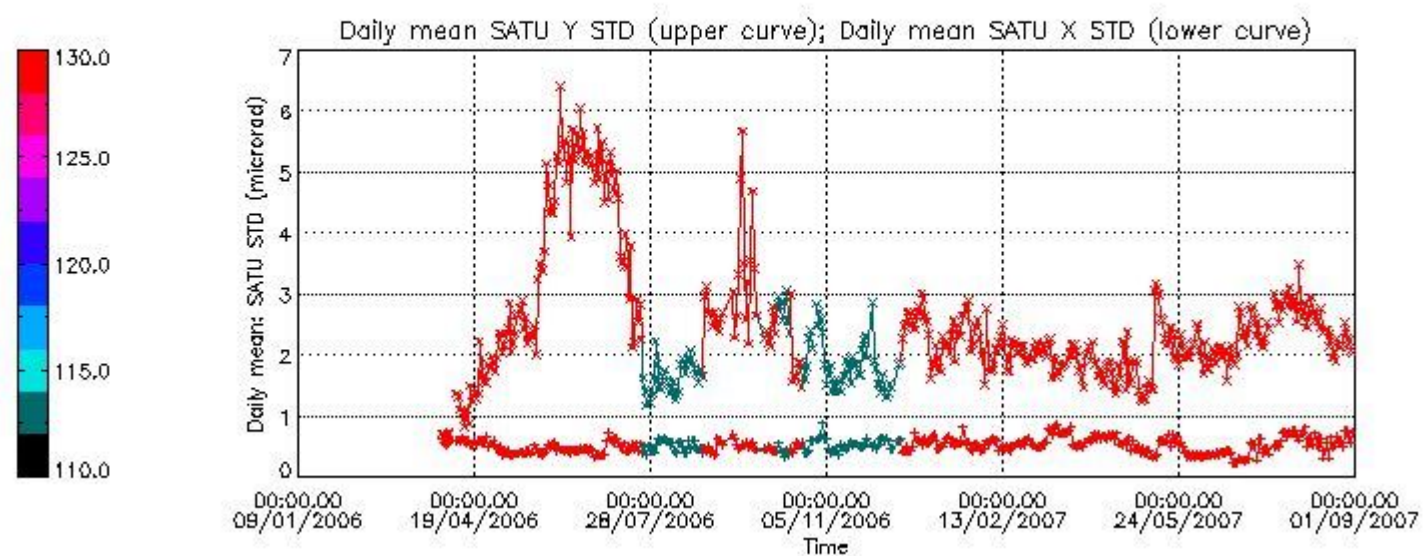
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

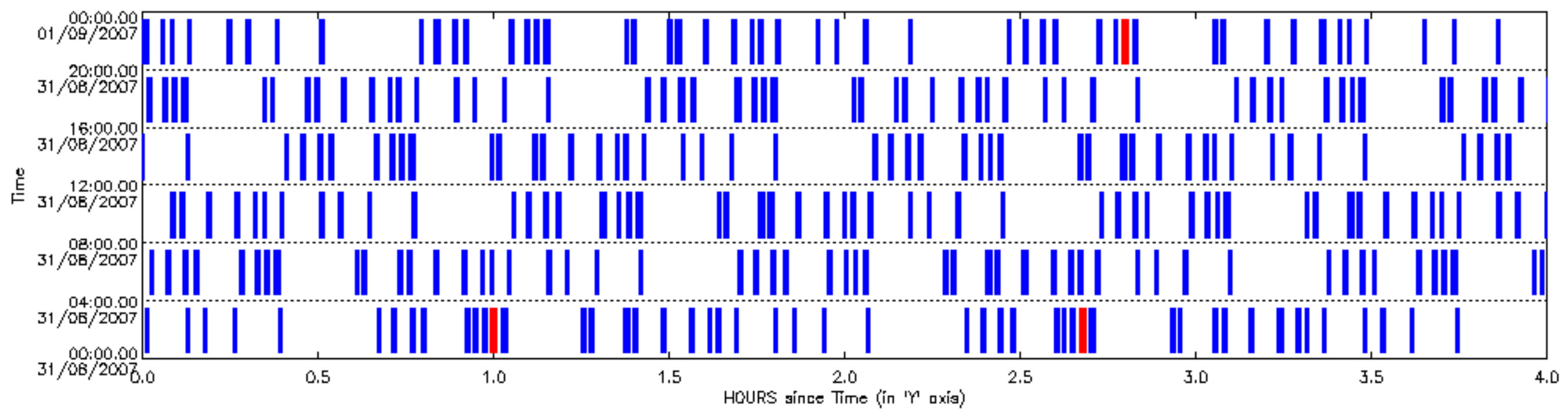
Lower curve: STD of SATU X axis

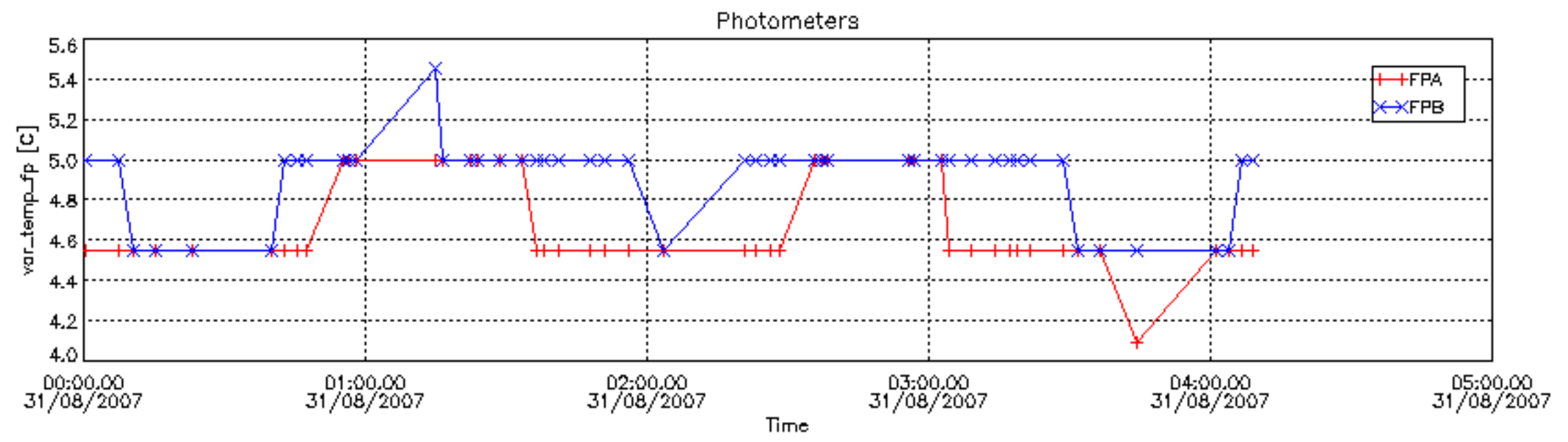
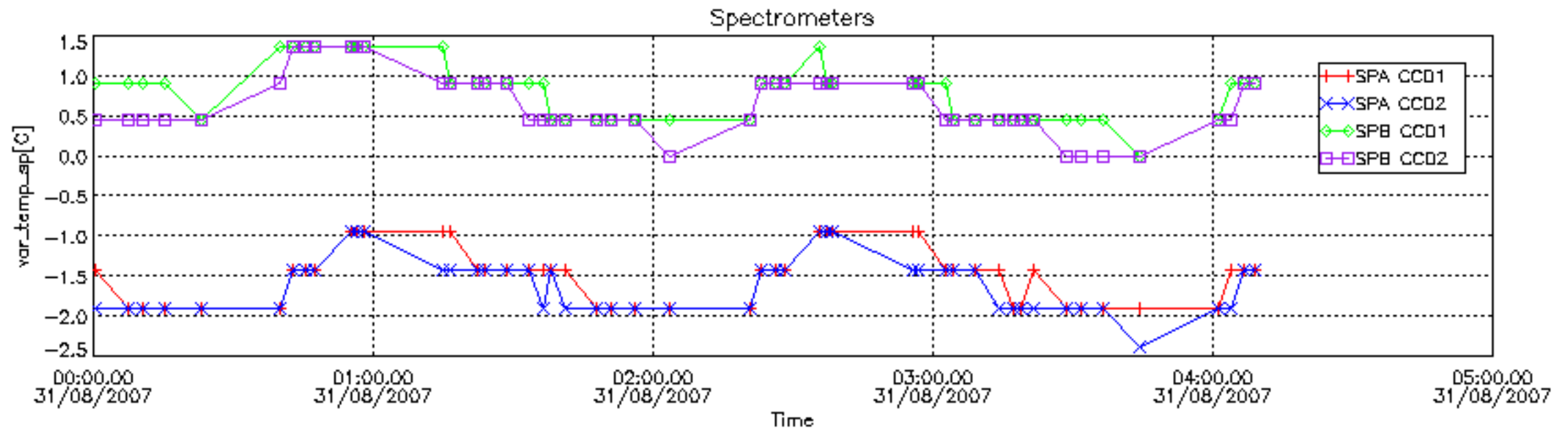


### 8. Auxiliary Data Files used for the production reported in section 2.4

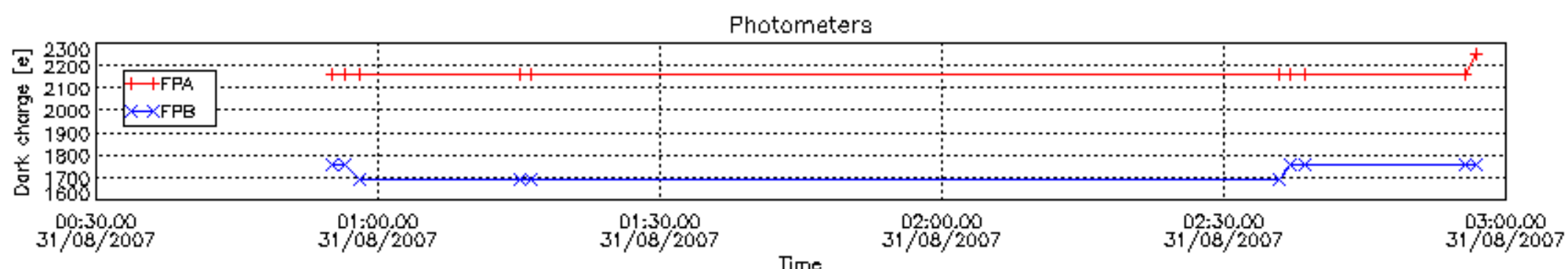
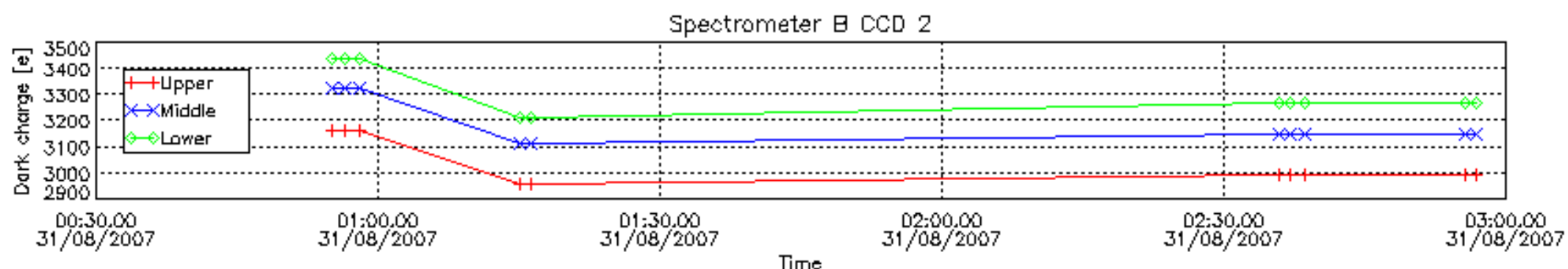
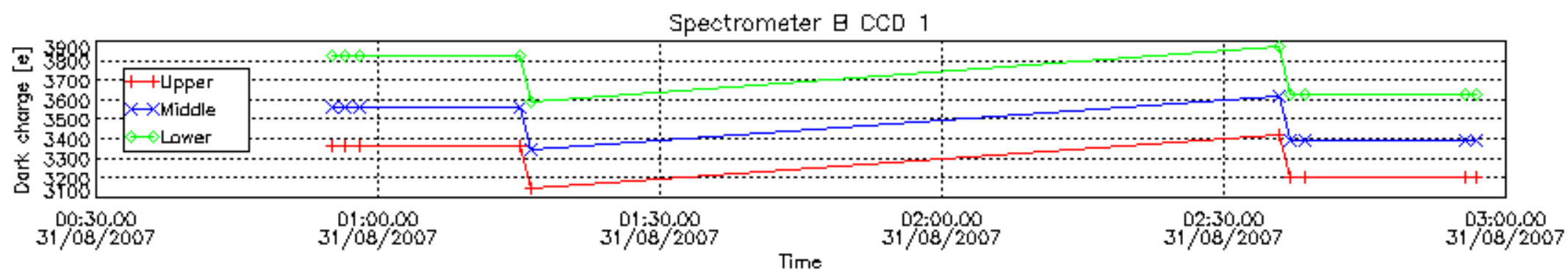
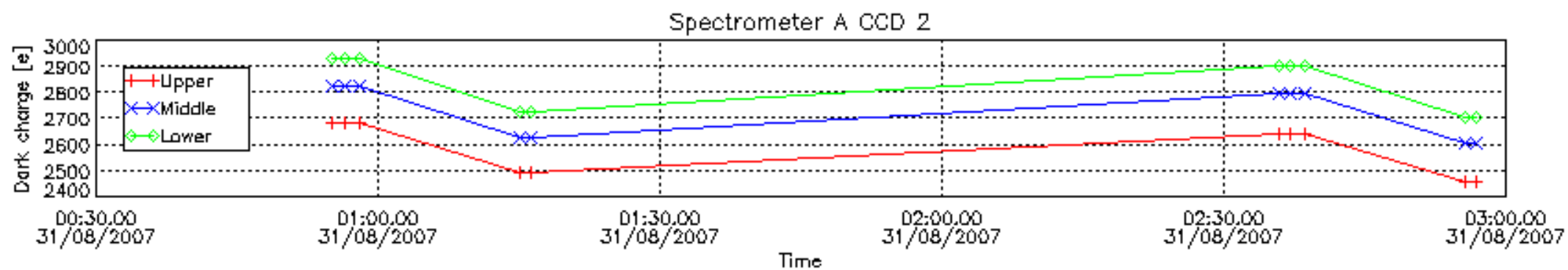
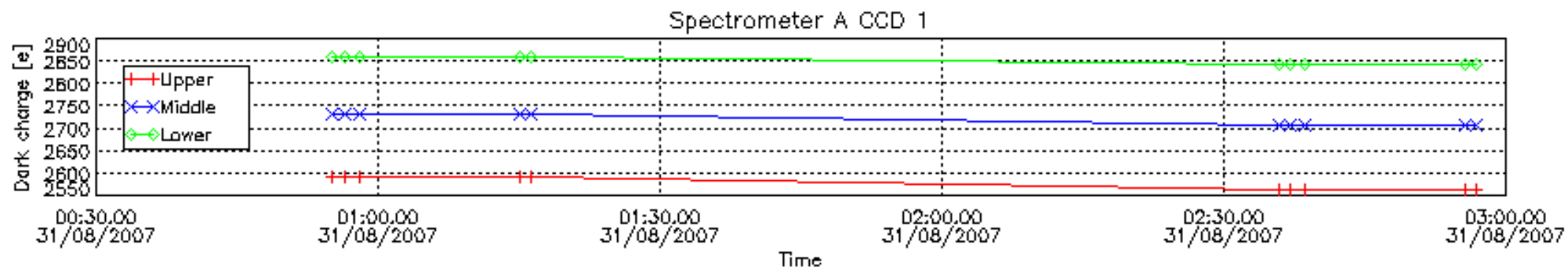
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	31-AUG-2007 00:00:26
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070822_085350_20070820_000000_20100101_000000	1	31-AUG-2007 00:00:26
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	31-AUG-2007 00:00:26
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	31-AUG-2007 00:00:26
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	31-AUG-2007 00:00:26
ECMWF_FILE	AUX_ECF_AXNECM20070830_062110_20070830_210000_20070831_090000	1	31-AUG-2007 00:00:26
ECMWF_FILE	AUX_ECF_AXNECM20070830_182110_20070831_030000_20070831_150000	46	31-AUG-2007 04:01:11
OPTIONAL_ECMWF_FILE	MISSING	1	31-AUG-2007 00:00:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070830_213211_000057382061_00143_28754_4075.N1	1	31-AUG-2007 00:00:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070830_230749_000060572061_00144_28755_4076.N1	10	31-AUG-2007 00:55:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070831_005405_000038252061_00145_28756_4077.N1	26	31-AUG-2007 02:20:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070831_020309_000057382061_00146_28757_4078.N1	46	31-AUG-2007 04:01:11



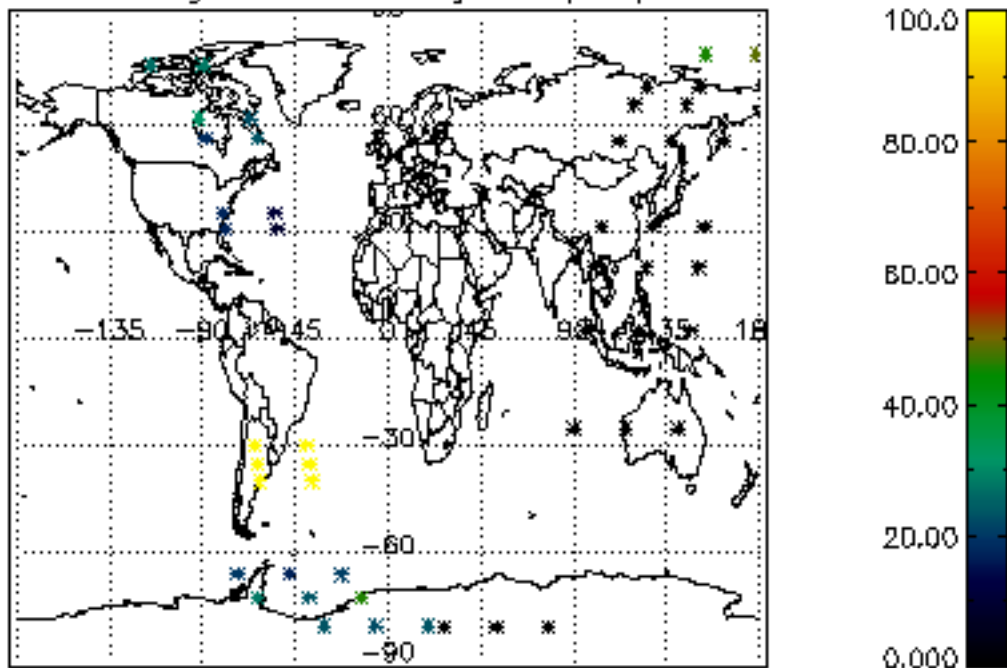




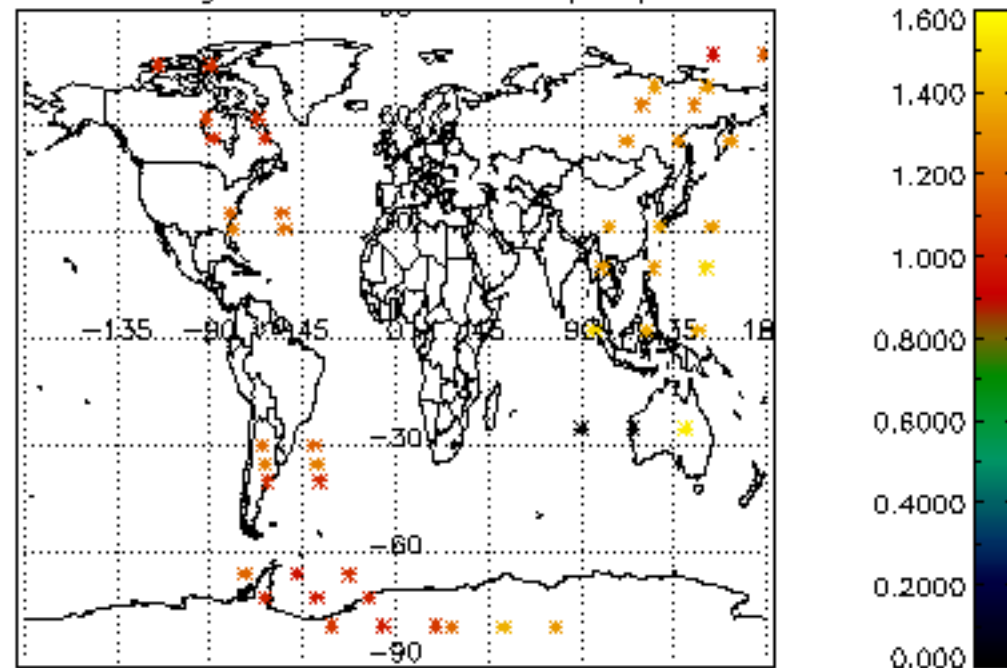




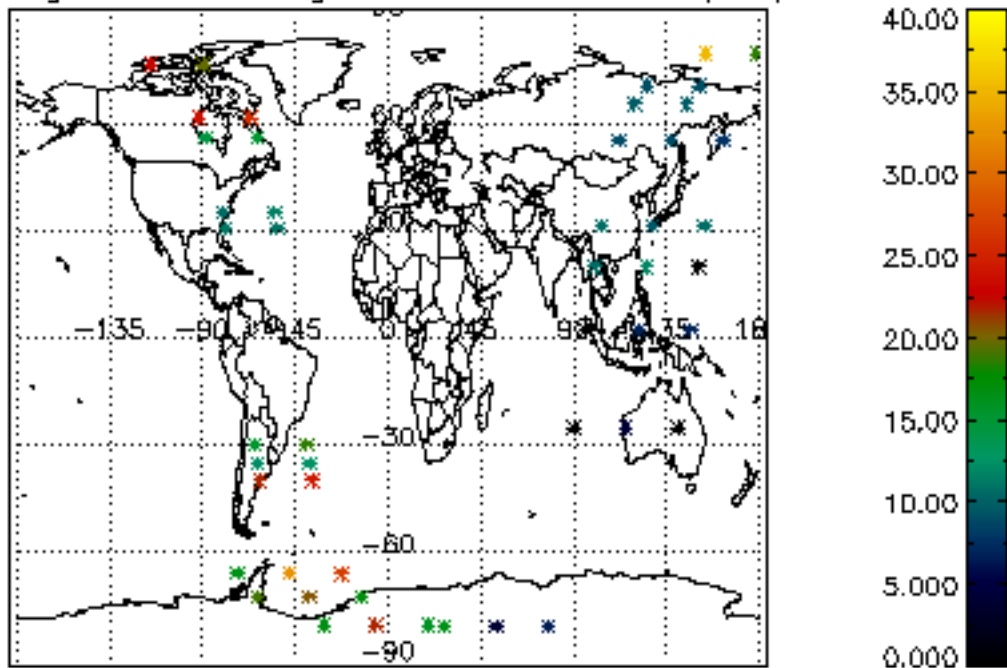
Percentage of cosmic ray hits per profile



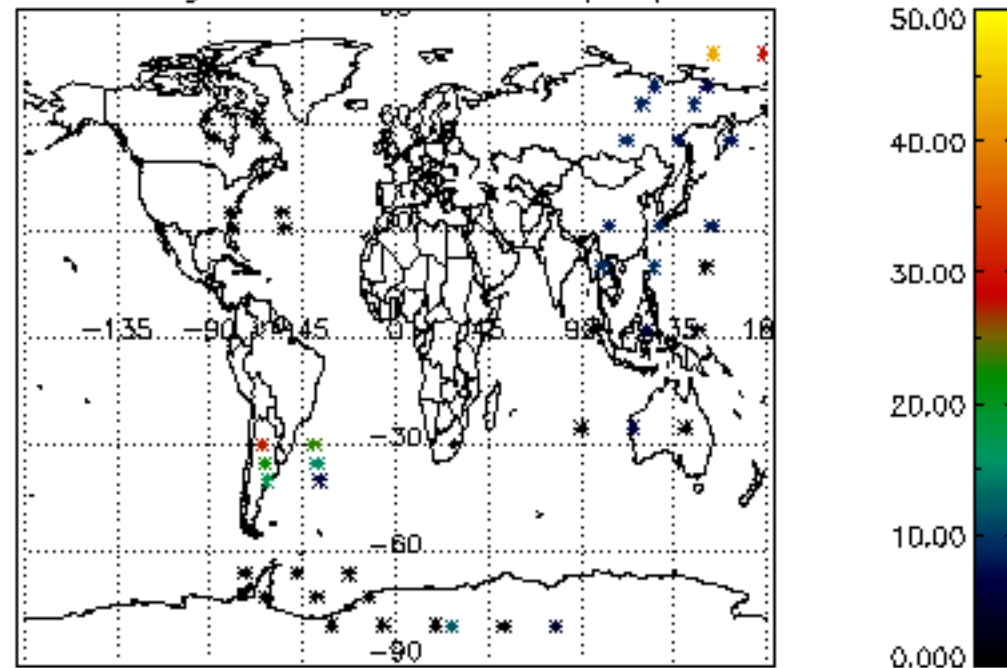
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

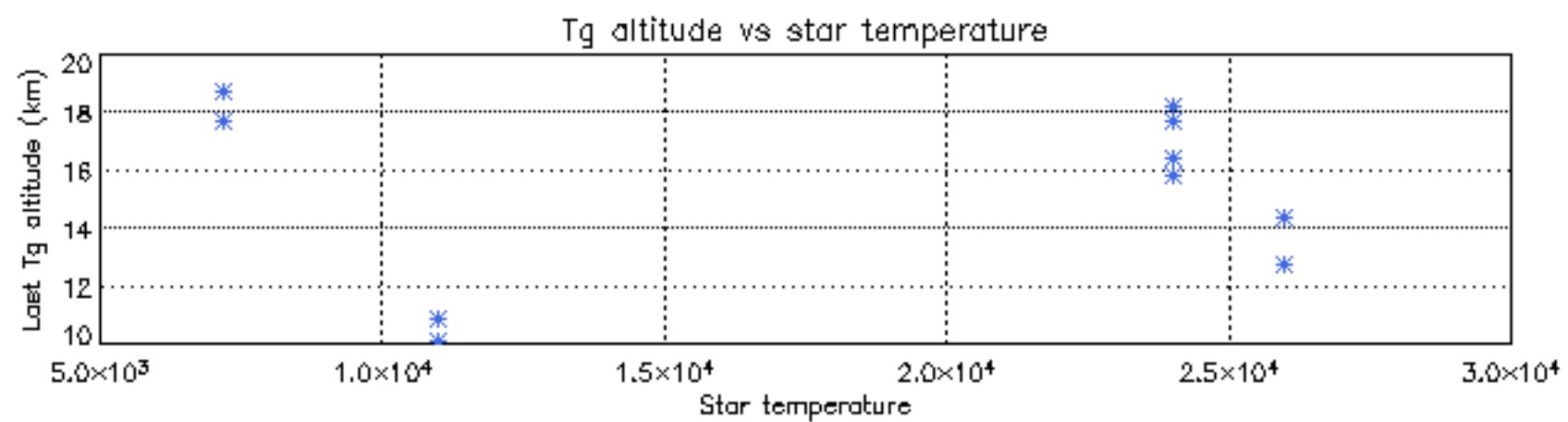
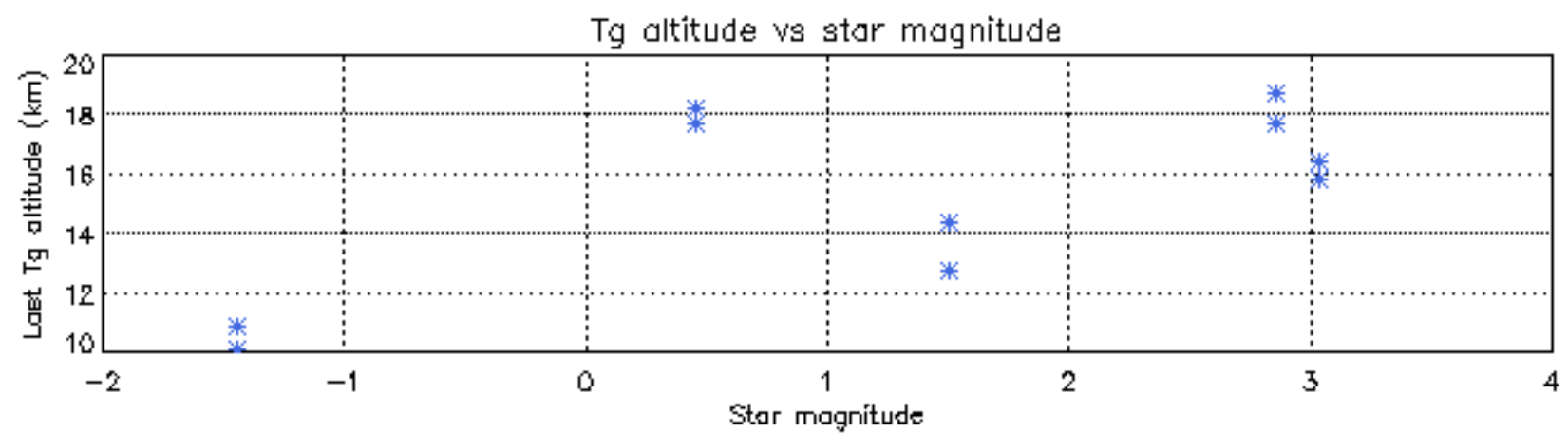
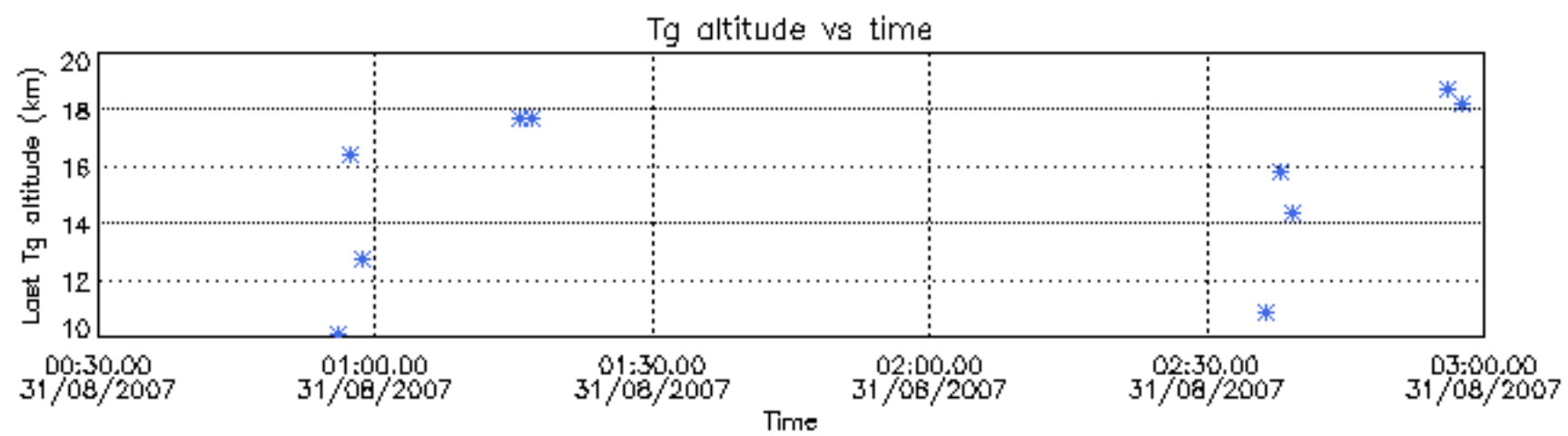


Percentage of saturation errors per profile

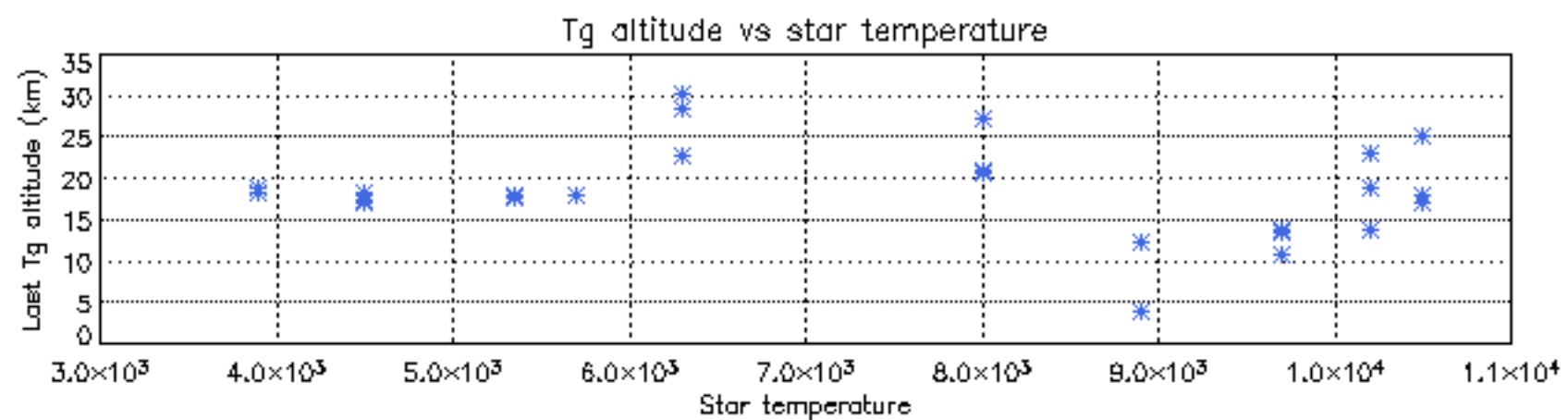
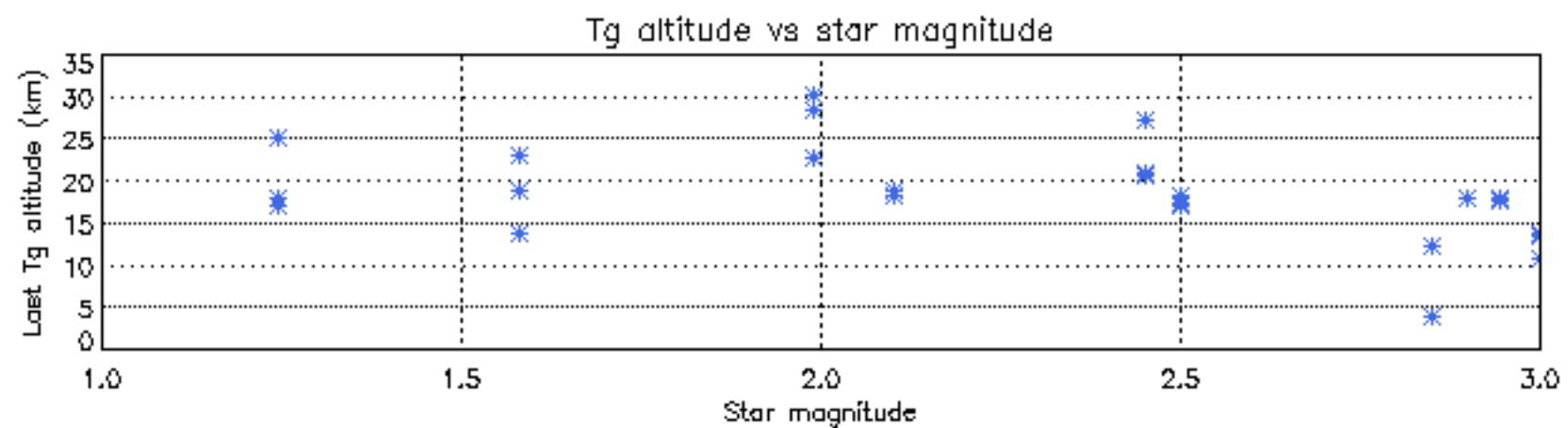
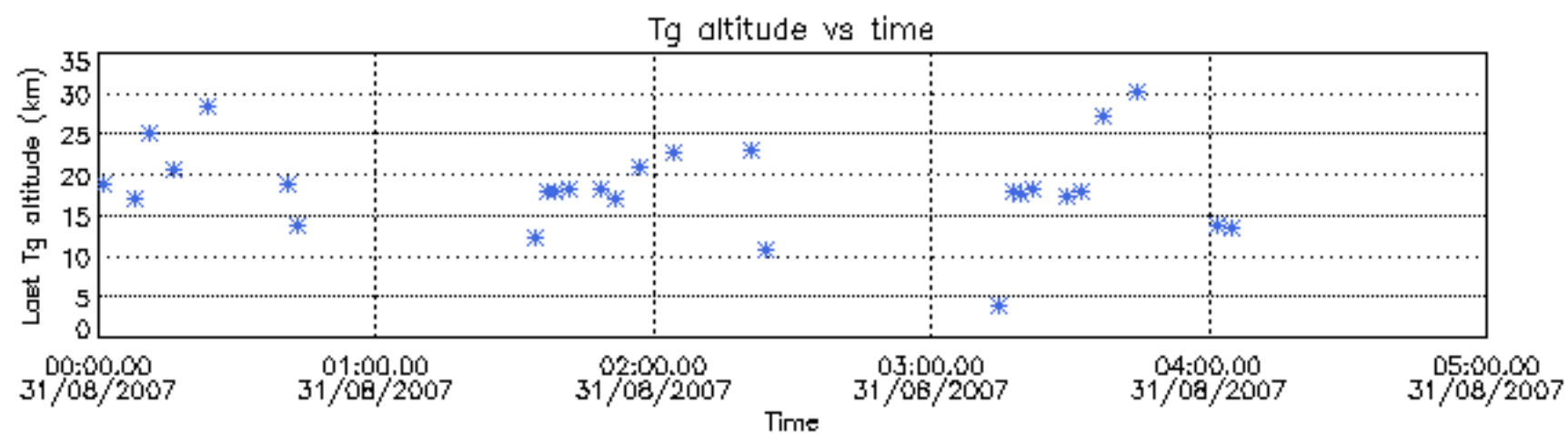




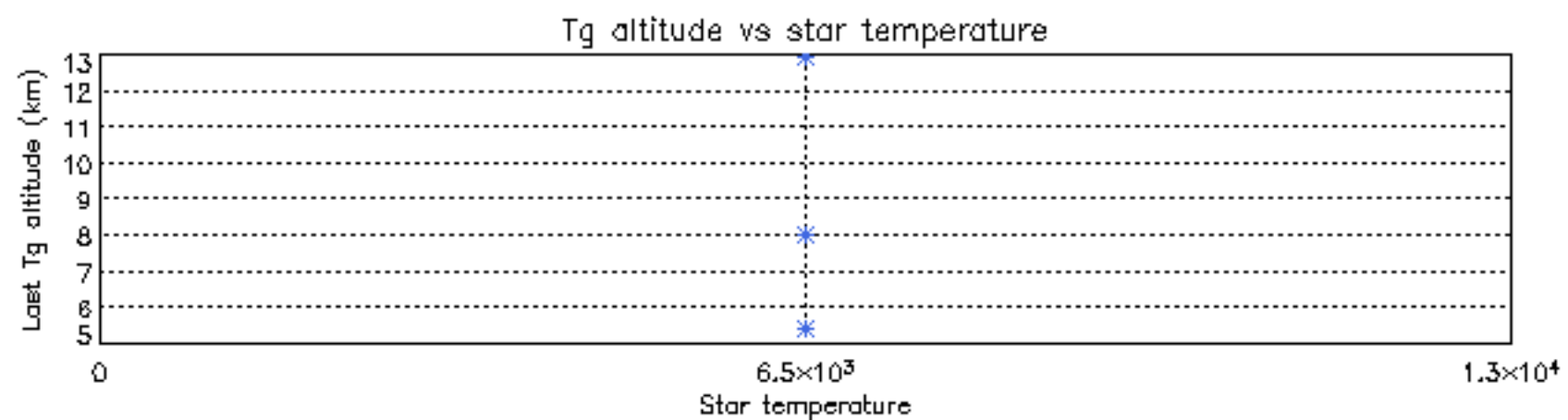
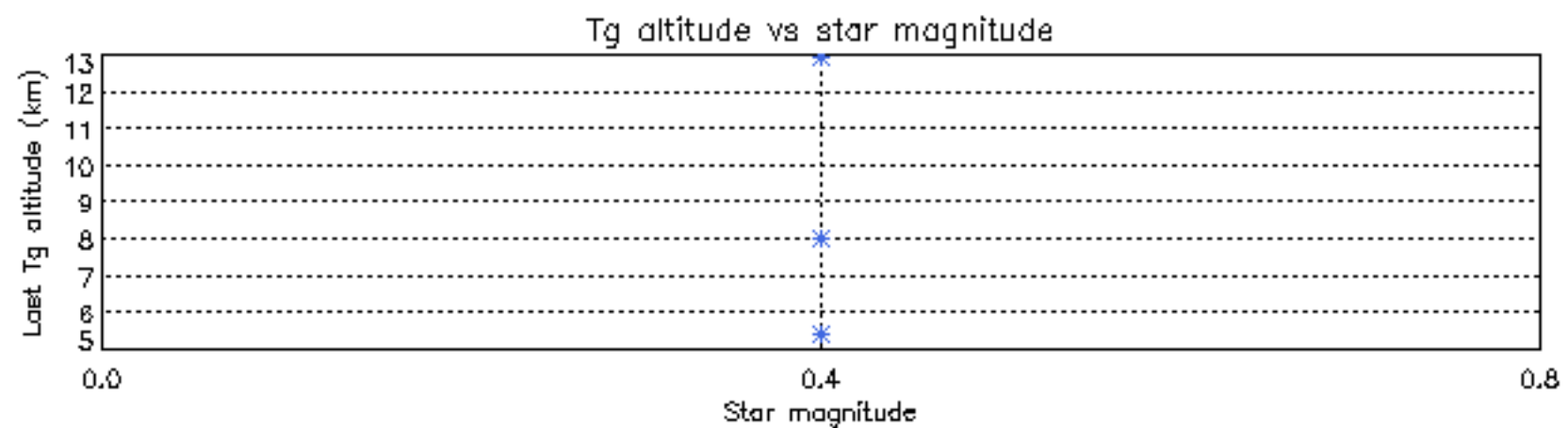
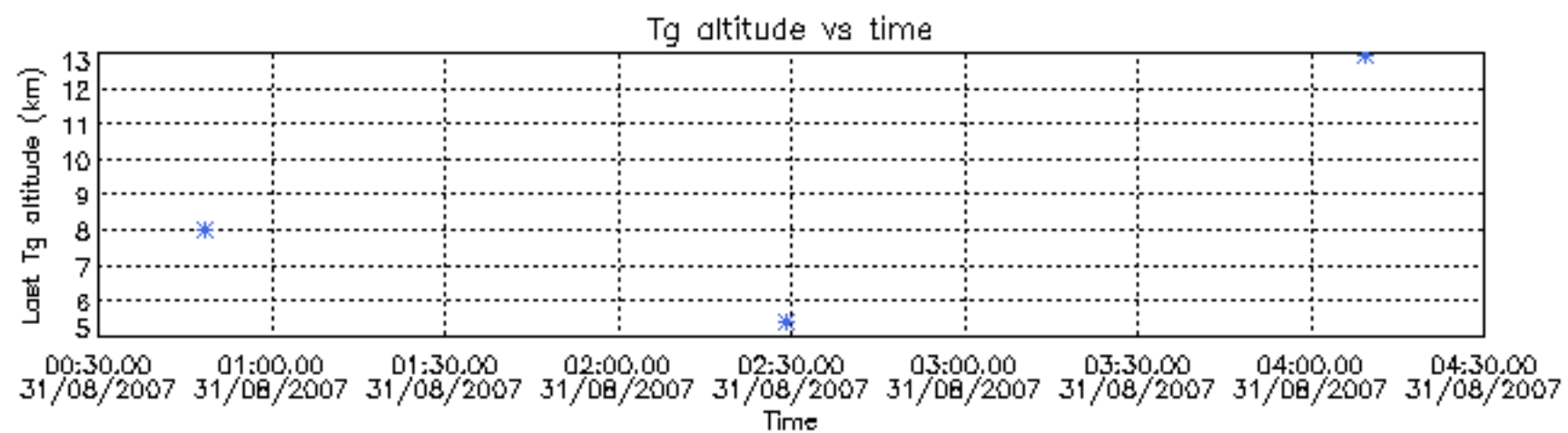
Tangent altitude at which the star is lost



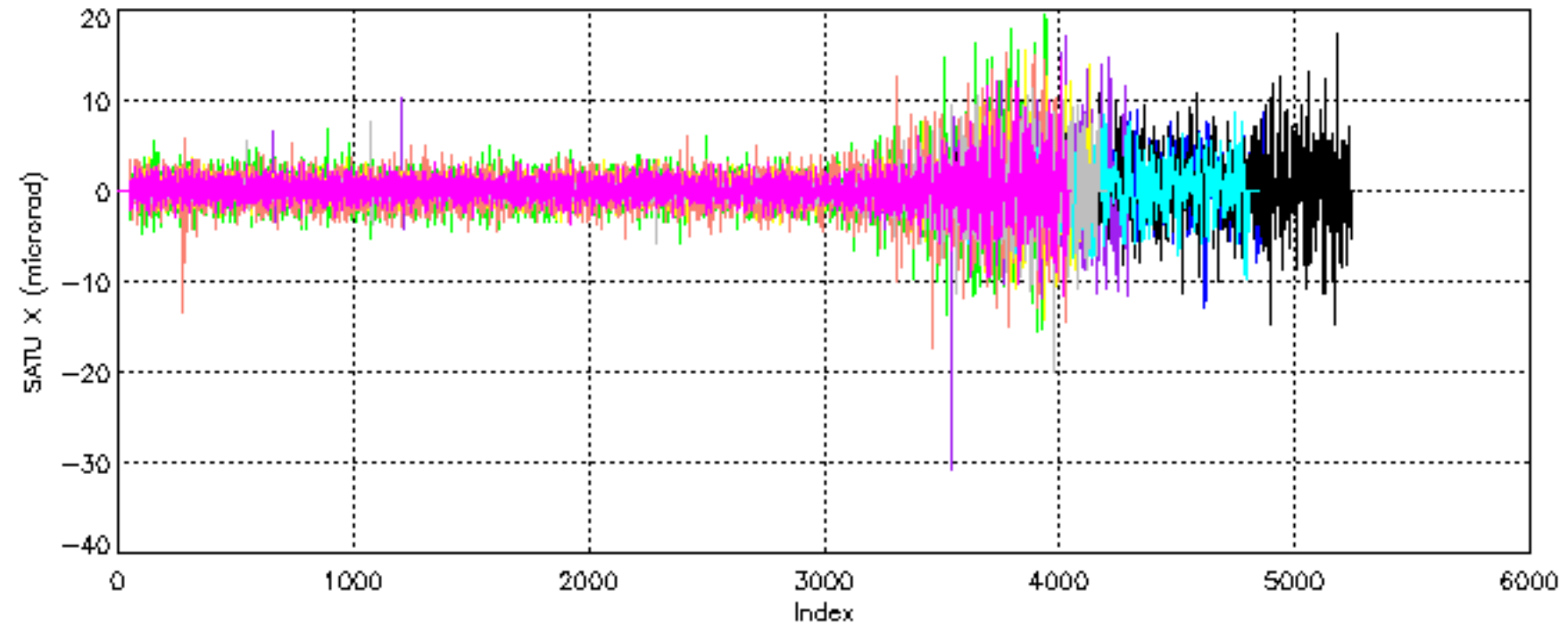
Tangent altitude at which the star is lost

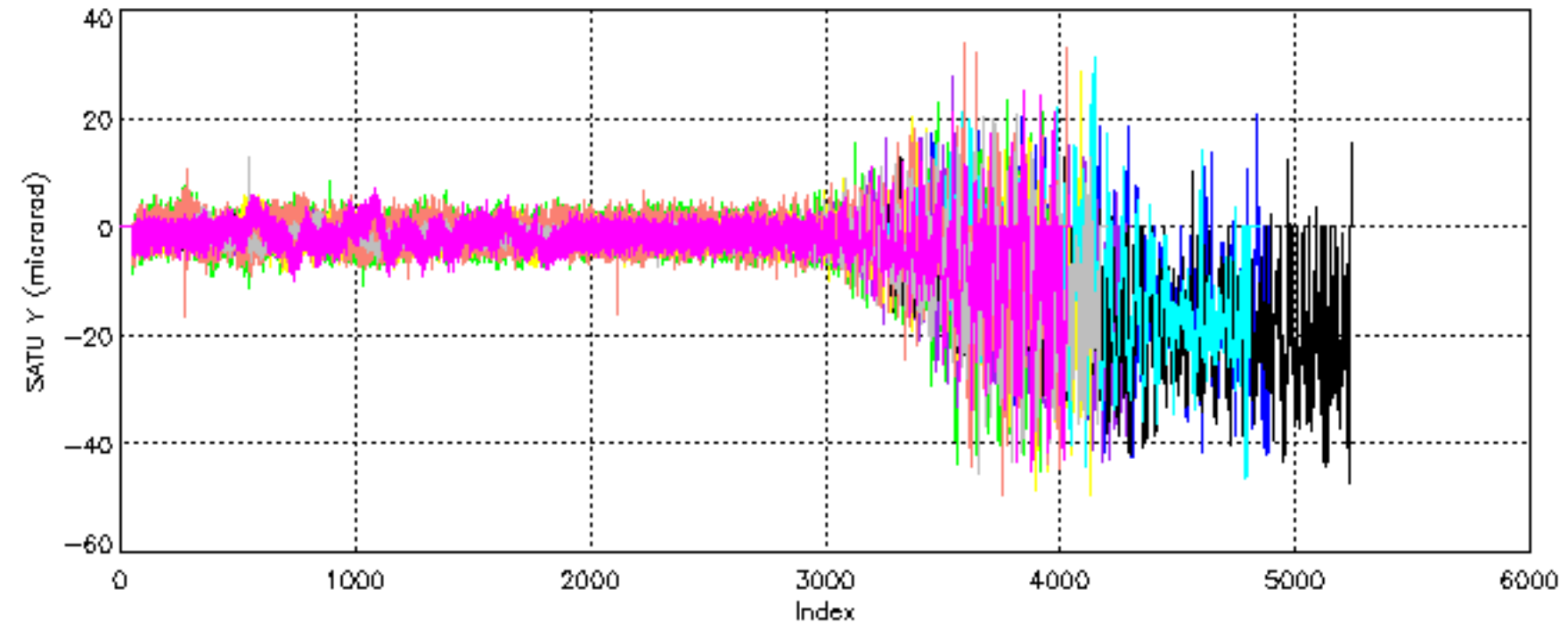


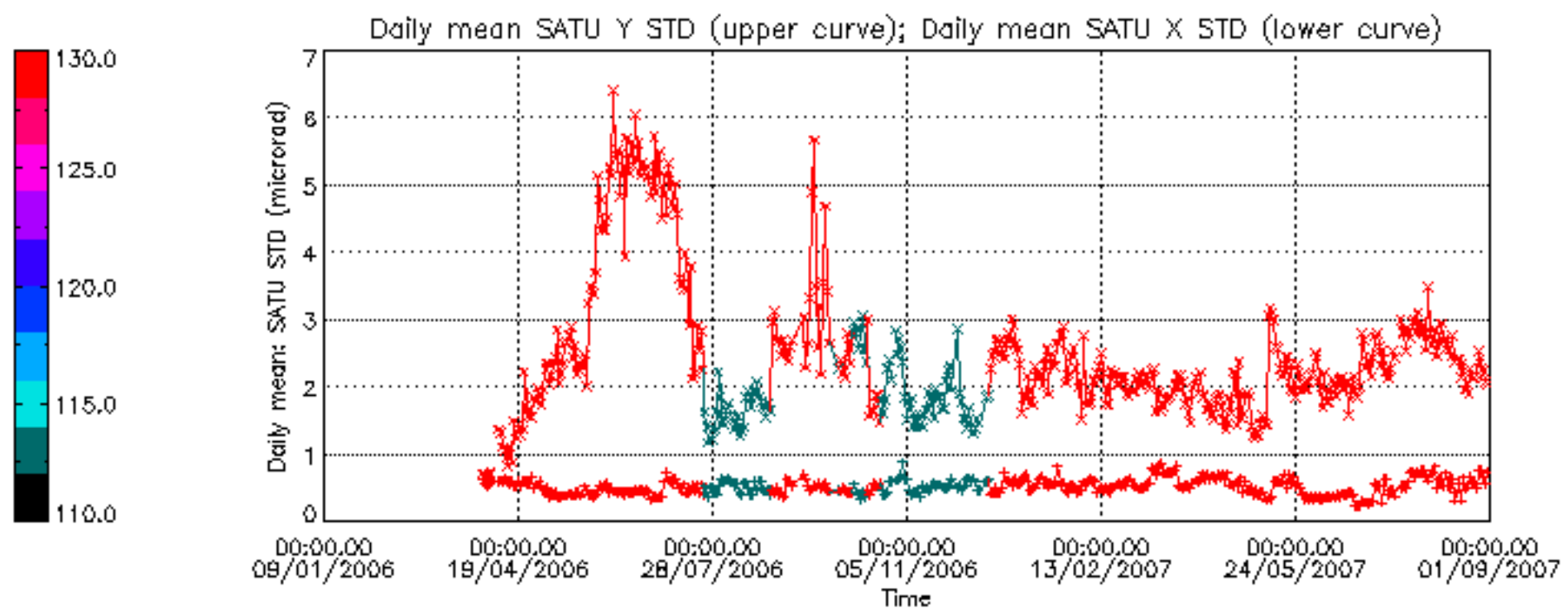
Tangent altitude at which the star is lost











/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

1; -1823.8; 01-AUG-2007 02:59:46; Bright; 33.5; 42; 34Bet Aur ; 1.90; 10200;occ; 67; 0;28328  
 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  
 5; -1012.9; 01-AUG-2007 04:53:53; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;28329  
 6; -865.0; 01-AUG-2007 04:56:21; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;28329  
 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  
 11; 268.4; 01-AUG-2007 05:15:14; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;28330  
 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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2; -676.1; 01-AUG-2007 21:45:29; Dark ; 40.5; 139; 9Bet Lep ; 2.83; 5600;occ; 81; 0;28339  
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  
14; 3288.1; 01-AUG-2007 22:51:33; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;28340  
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  
18; 4641.2; 01-AUG-2007 23:14:06; Dark ; 41.5; 176; 23Zet Tau ; 3.02; 22000;occ; 83; 0;28340  
19; 4861.1; 01-AUG-2007 23:17:46; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;28340  
20; 5026.7; 01-AUG-2007 23:20:32; Dark ; 39.5; 30; 46Eps Ori ; 1.69; 30000;occ; 79; 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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2; -578.3; 01-AUG-2007 23:27:42; Dark ; 38.5; 177; 1Zet CMA ; 3.02; 26000;occ; 77; 0;28340  
3; -481.3; 01-AUG-2007 23:29:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28340  
4; 274.7; 01-AUG-2007 23:41:55; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28341  
5; 427.7; 01-AUG-2007 23:44:28; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 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  
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