GOMOS Daily Report 08-OCT-2007

Level 0 and Level 1 products

SUMMARY

1. General Info

2. Summary of products arrived in PCF (Product Control Facility)
   - 2.1 Level 0: products arrived in PCF during current month (see template here)
   - 2.2 Level 0: plot of mission plan versus production during reporting period
   - 2.3 Level 0: summary of missing occultations with respect to the plan
   - 2.4 Level 1: products arrived in PCF during reporting period

3. Plot of Spectrometers and Photometers temperatures

4. Dark Charge monitoring
   - 4.1 Products that did not use the Dark Sky Area observation for DC computation
   - 4.2 Plot of Dark Charge

5. Demodulation correction and quality product information monitoring
   - 5.1 Percentage of products with some flags set
   - 5.2 Plot of quality information per product (time dependant)
   - 5.3 Plot of quality information per product (world map)

6. Star tangent altitude lost
   - 6.1 Statistics on star tangent altitude lost
   - 6.2 Plot of star tangent altitude lost: DARK products
   - 6.3 Plot of star tangent altitude lost: BRIGHT products
   - 6.3 Plot of star tangent altitude lost: TWILIGHT products

7. Star Acquisition and Tracking Unit (SATU)
   - 7.1 SATU plots (dark limb): 'X' and 'Y' axis
   - 7.2 SATU Noise Equivalent Angle statistics
     - 7.2.1 SATU NEA Statistics (table)
       - 7.2.2 Daily SATU NEA STD (dark limb) - trend since 1st April 2006

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

Level 2 products

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1. General Info

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.

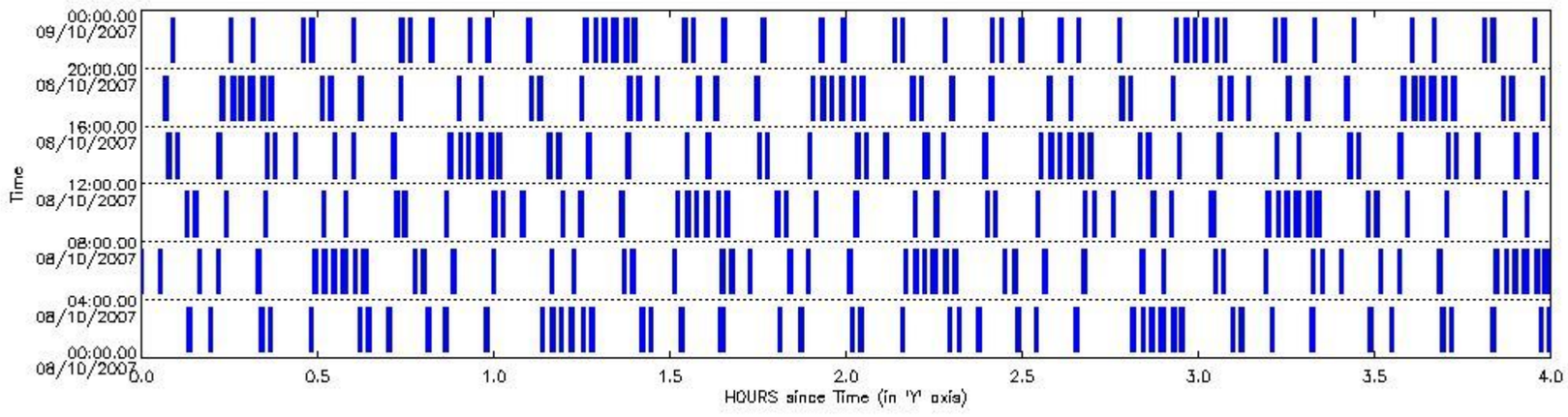
Item	Value
Time of report generation	15OCT2007 10:30:40
Data source version	GOMOS/5.00
Start time of products	08-10-2007 (08OCT2007 00:00:00)
Stop time of products	09-10-2007 (09OCT2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

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

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

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



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

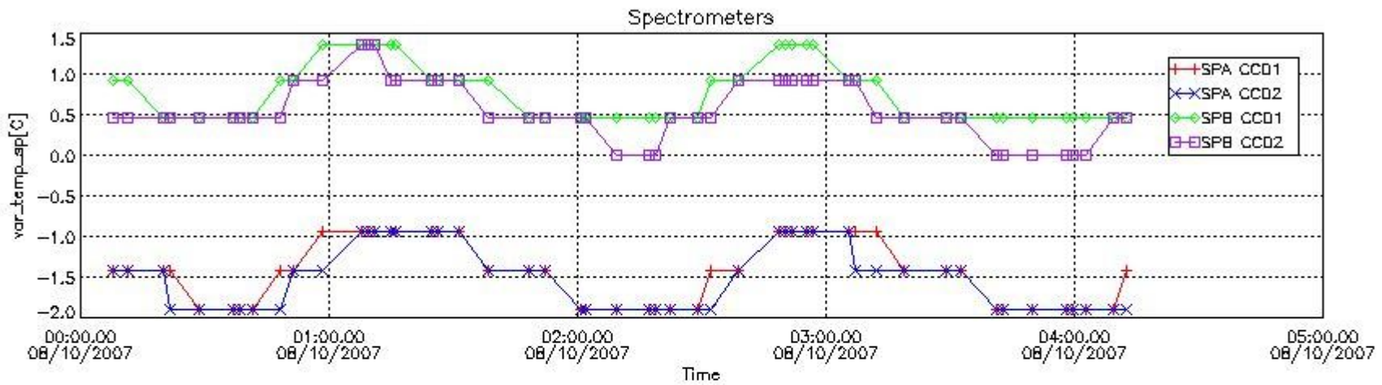
No missing products.

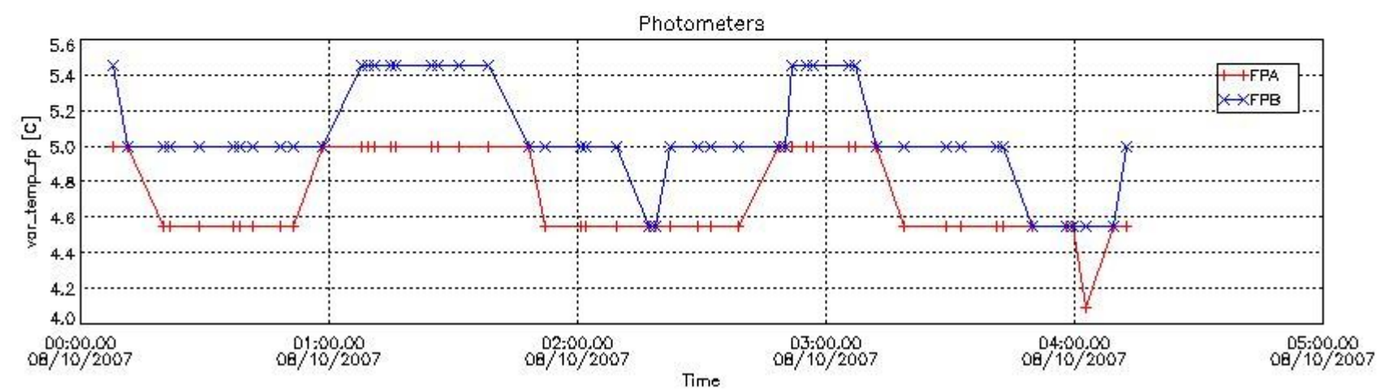
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20071008_000742_000000382062_00188_29300_4770.N1	08-OCT-2007 00:07:42	Bright	38.000	140	88Gam Peg	2.8340	26000.	76	29300	No
2	GOM_TRA_1PNPDE20071008_001122_000000382062_00188_29300_4771.N1	08-OCT-2007 00:11:22	Bright	37.500	93	53Bet Peg	2.5200	3100.0	75	29300	No
3	GOM_TRA_1PNPDE20071008_002005_000000382062_00188_29300_4772.N1	08-OCT-2007 00:20:05	Bright	38.000	68	18Alp Cas	2.2250	4500.0	76	29300	No
4	GOM_TRA_1PNPDE20071008_002130_000000402062_00188_29300_4773.N1	08-OCT-2007 00:21:30	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	29300	No
5	GOM_TRA_1PNPDE20071008_002838_000000352062_00188_29300_4774.N1	08-OCT-2007 00:28:38	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	29300	No
6	GOM_TRA_1PNPDE20071008_003645_000000372062_00188_29300_4775.N1	08-OCT-2007 00:36:45	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29300	No
7	GOM_TRA_1PNPDE20071008_003817_000000382062_00188_29300_4776.N1	08-OCT-2007 00:38:17	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	29300	No
8	GOM_TRA_1PNPDE20071008_004134_000000522062_00188_29300_4777.N1	08-OCT-2007 00:41:34	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	29300	No
9	GOM_TRA_1PNPDE20071008_004818_000000462062_00188_29300_4778.N1	08-OCT-2007 00:48:18	Bright	46.000	166	17Eps Leo	2.9800	6000.0	92	29300	No
10	GOM_TRA_1PNPDE20071008_005125_000000352062_00188_29300_4779.N1	08-OCT-2007 00:51:25	Bright	35.000	22	32Alp Leo	1.3600	15200.	70	29300	No
11	GOM_TRA_1PNPDE20071008_005814_000000502062_00188_29300_4780.N1	08-OCT-2007 00:58:14	Twilight	50.000	48	30Alp Hya	1.9770	4100.0	100	29300	No
12	GOM_TRA_1PNPDE20071008_010753_000000422062_00188_29300_4922.N1	08-OCT-2007 01:07:53	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	29300	No

13	GOM_TRA_1PNPDE20071008_010935_000000462062_00188_29300_4923.N1	08-OCT-2007 01:09:35	Dark	45.500	70	Zet Pup	2.2460	39000.	91	29300	No
14	GOM_TRA_1PNPDE20071008_011108_000000392062_00188_29300_4924.N1	08-OCT-2007 01:11:08	Dark	38.500	46	Del Vel	1.9540	10600.	77	29300	No
15	GOM_TRA_1PNPDE20071008_011446_000000452062_00189_29301_4925.N1	08-OCT-2007 01:14:46	Dark	44.500	161	Tau Pup	2.9310	4500.0	89	29301	No
16	GOM_TRA_1PNPDE20071008_011610_000000592062_00189_29301_4926.N1	08-OCT-2007 01:16:10	Dark	59.000	2	Alp Car	-0.73600	7000.0	118	29301	No
17	GOM_TRA_1PNPDE20071008_012453_000000392062_00189_29301_4927.N1	08-OCT-2007 01:24:53	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	29301	No
18	GOM_TRA_1PNPDE20071008_012621_000000422062_00189_29301_4928.N1	08-OCT-2007 01:26:21	Dark	42.000	9	Alp Eri	0.45300	24000.	84	29301	No
19	GOM_TRA_1PNPDE20071008_013133_000000442062_00189_29301_4929.N1	08-OCT-2007 01:31:33	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	29301	No
20	GOM_TRA_1PNPDE20071008_013817_000000522062_00189_29301_4930.N1	08-OCT-2007 01:38:17	Straylight	52.000	52	16Bet Cet	2.0370	4500.0	104	29301	No
21	GOM_TRA_1PNPDE20071008_014818_000000382062_00189_29301_4931.N1	08-OCT-2007 01:48:18	Bright	38.000	140	88Gam Peg	2.8340	26000.	76	29301	No
22	GOM_TRA_1PNPDE20071008_015158_000000352062_00189_29301_4932.N1	08-OCT-2007 01:51:58	Bright	35.000	93	53Bet Peg	2.5200	3100.0	70	29301	No
23	GOM_TRA_1PNPDE20071008_020041_000000392062_00189_29301_4933.N1	08-OCT-2007 02:00:41	Bright	39.000	68	18Alp Cas	2.2250	4500.0	78	29301	No
24	GOM_TRA_1PNPDE20071008_020206_000000382062_00189_29301_4934.N1	08-OCT-2007 02:02:06	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	29301	No
25	GOM_TRA_1PNPDE20071008_020914_000000322062_00189_29301_4935.N1	08-OCT-2007 02:09:14	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	29301	No
26	GOM_TRA_1PNPDE20071008_021721_000000372062_00189_29301_5089.N1	08-OCT-2007 02:17:21	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	29301	No
27	GOM_TRA_1PNPDE20071008_021853_000000372062_00189_29301_5090.N1	08-OCT-2007 02:18:53	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	29301	No
28	GOM_TRA_1PNPDE20071008_022210_000000522062_00189_29301_5091.N1	08-OCT-2007 02:22:10	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	29301	No
29	GOM_TRA_1PNPDE20071008_022854_000000392062_00189_29301_5092.N1	08-OCT-2007 02:28:54	Bright	38.500	166	17Eps Leo	2.9800	6000.0	77	29301	No
30	GOM_TRA_1PNPDE20071008_023202_000000362062_00189_29301_5093.N1	08-OCT-2007 02:32:02	Bright	36.000	22	32Alp Leo	1.3600	15200.	72	29301	No
31	GOM_TRA_1PNPDE20071008_023851_000000472062_00189_29301_5094.N1	08-OCT-2007 02:38:51	Twilight	47.000	48	30Alp Hya	1.9770	4100.0	94	29301	No
32	GOM_TRA_1PNPDE20071008_024830_000000462062_00189_29301_5095.N1	08-OCT-2007 02:48:30	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	29301	No
33	GOM_TRA_1PNPDE20071008_025012_000000422062_00189_29301_5096.N1	08-OCT-2007 02:50:12	Dark	41.500	70	Zet Pup	2.2460	39000.	83	29301	No
34	GOM_TRA_1PNPDE20071008_025144_000000382062_00189_29301_5097.N1	08-OCT-2007 02:51:44	Dark	37.500	46	Del Vel	1.9540	10600.	75	29301	No
35	GOM_TRA_1PNPDE20071008_025523_000000442062_00190_29302_5098.N1	08-OCT-2007 02:55:23	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	29302	No
36	GOM_TRA_1PNPDE20071008_025647_000000452062_00190_29302_5099.N1	08-OCT-2007 02:56:47	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	29302	No
37	GOM_TRA_1PNPDE20071008_030530_000000392062_00190_29302_5100.N1	08-OCT-2007 03:05:30	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	29302	No
38	GOM_TRA_1PNPDE20071008_030657_000000412062_00190_29302_5101.N1	08-OCT-2007 03:06:57	Dark	40.500	9	Alp Eri	0.45300	24000.	81	29302	No
39	GOM_TRA_1PNPDE20071008_031209_000000382062_00190_29302_5102.N1	08-OCT-2007 03:12:09	Straylight	38.000	84	Alp Phe	2.3970	4500.0	76	29302	No
40	GOM_TRA_1PNPDE20071008_031854_000000462062_00190_29302_5103.N1	08-OCT-2007 03:18:54	Straylight	46.000	52	16Bet Cet	2.0370	4500.0	92	29302	No
41	GOM_TRA_1PNPDE20071008_032854_000000382062_00190_29302_5104.N1	08-OCT-2007 03:28:54	Bright	38.000	140	88Gam Peg	2.8340	26000.	76	29302	No
42	GOM_TRA_1PNPDE20071008_033234_000000382062_00190_29302_5105.N1	08-OCT-2007 03:32:34	Bright	37.500	93	53Bet Peg	2.5200	3100.0	75	29302	No
43	GOM_TRA_1PNPDE20071008_034117_000000372062_00190_29302_5106.N1	08-OCT-2007 03:41:17	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	29302	No
44	GOM_TRA_1PNPDE20071008_034241_000000372062_00190_29302_5107.N1	08-OCT-2007 03:42:41	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	29302	No
45	GOM_TRA_1PNPDE20071008_034950_000000352062_00190_29302_5108.N1	08-OCT-2007 03:49:50	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	29302	No
46	GOM_TRA_1PNPDE20071008_035757_000000372062_00190_29302_5263.N1	08-OCT-2007 03:57:57	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29302	No
47	GOM_TRA_1PNPDE20071008_035929_000000352062_00190_29302_5264.N1	08-OCT-2007 03:59:29	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	29302	No
48	GOM_TRA_1PNPDE20071008_040246_000000402062_00190_29302_5265.N1	08-OCT-2007 04:02:46	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	29302	No
49	GOM_TRA_1PNPDE20071008_040930_000000372062_00190_29302_5266.N1	08-OCT-2007 04:09:30	Bright	37.000	166	17Eps Leo	2.9800	6000.0	74	29302	No
50	GOM_TRA_1PNPDE20071008_041238_000000362062_00190_29302_5267.N1	08-OCT-2007 04:12:38	Bright	35.500	22	32Alp Leo	1.3600	15200.	71	29302	No

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



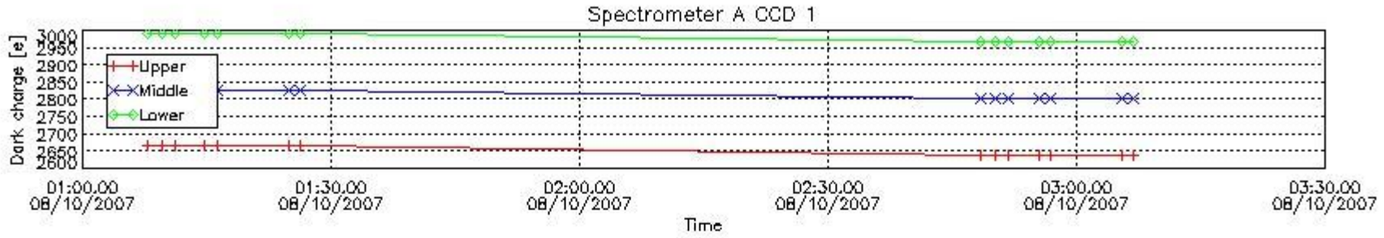


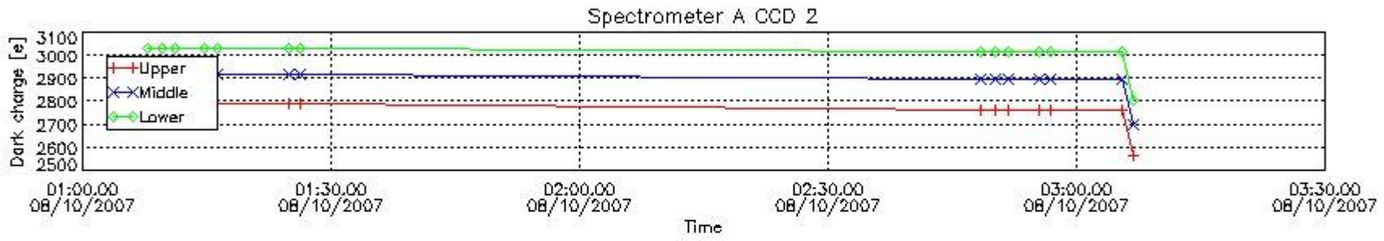
4. Overview of dark signal processing per product

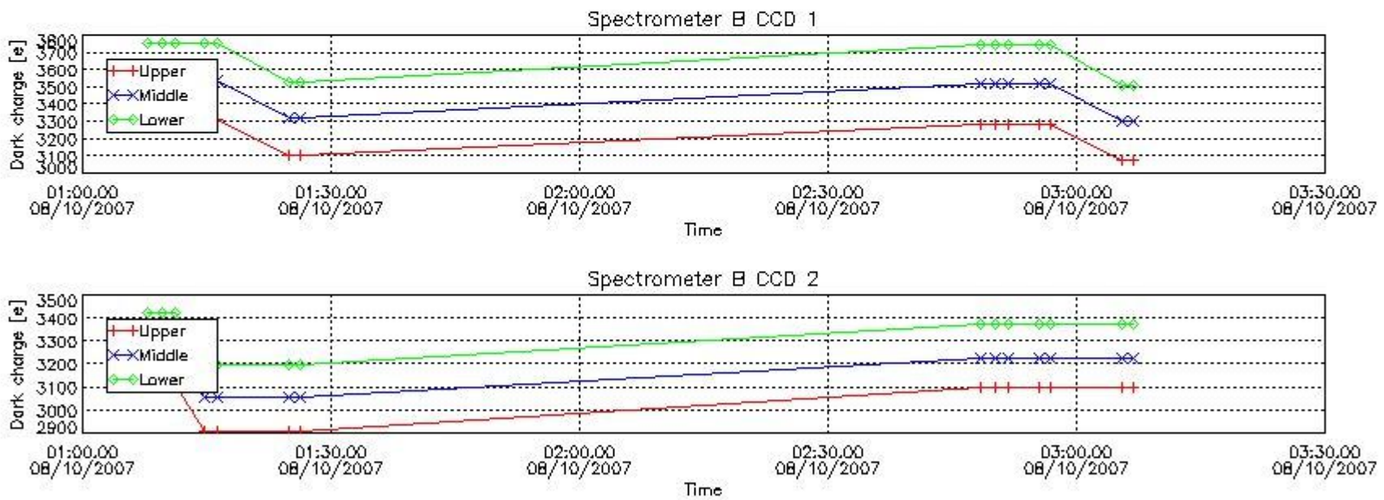
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

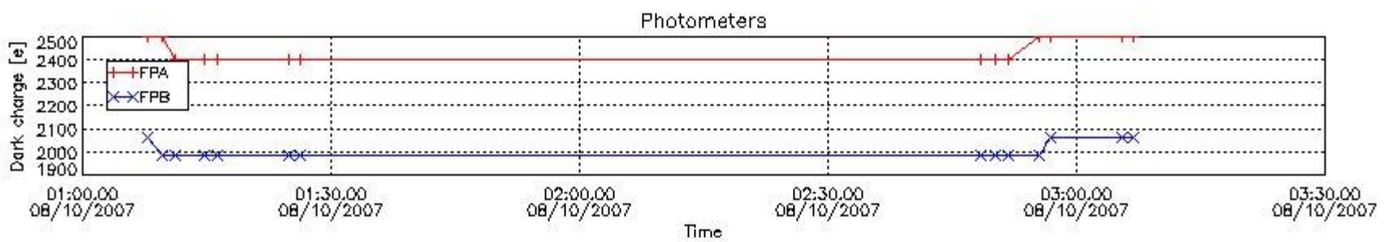
4.1 All products used the DSA observation for the DC computation

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









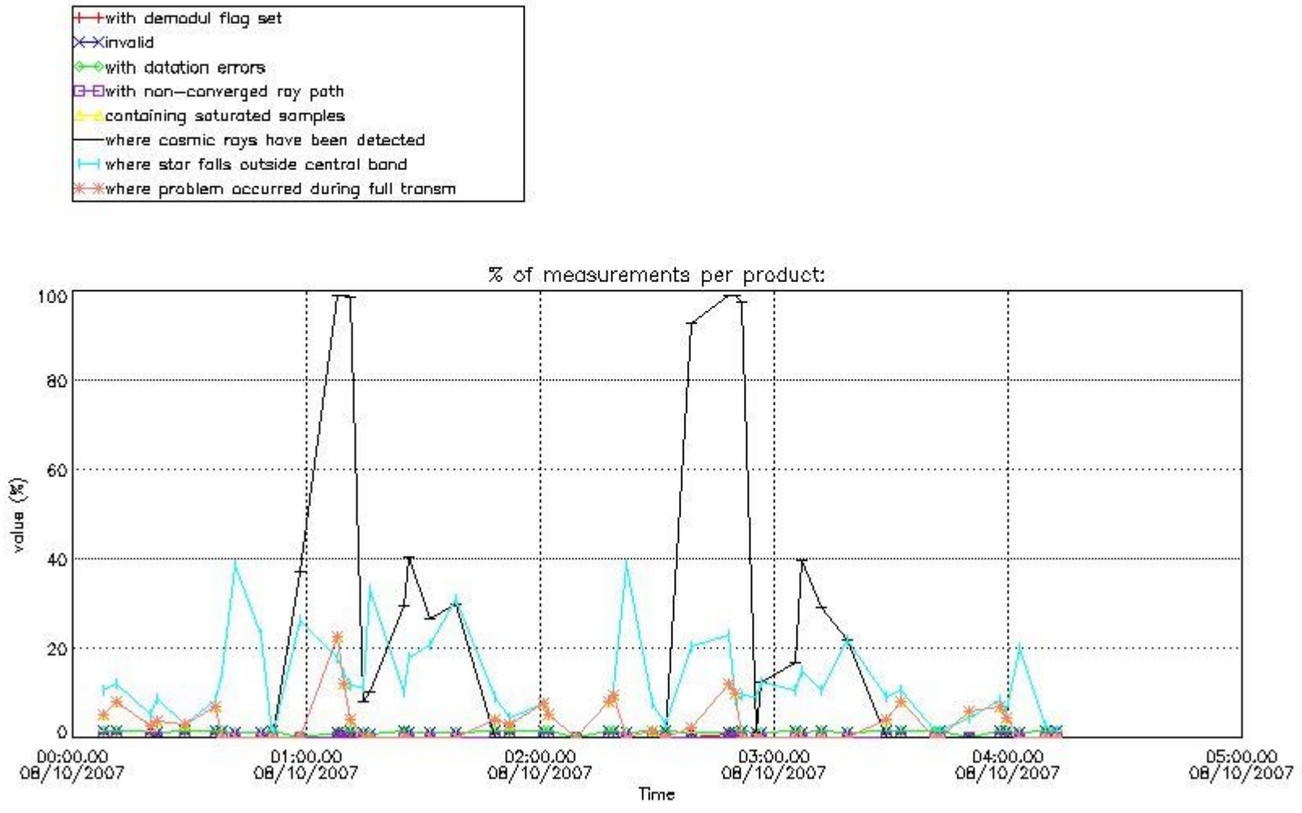
5. Demodulation flag and quality information monitoring

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.

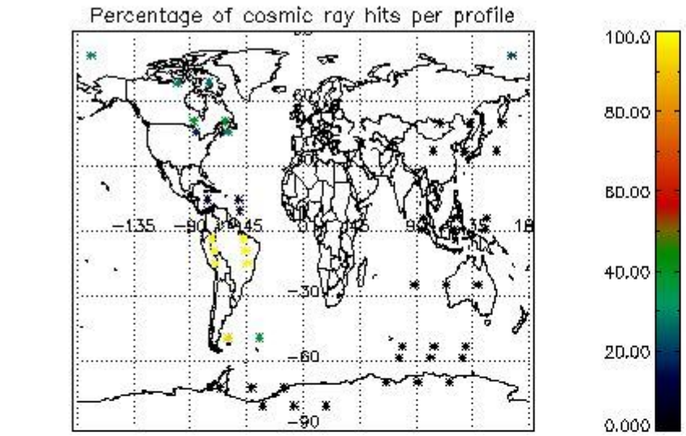
5.1 Percentage of products during reporting period with:

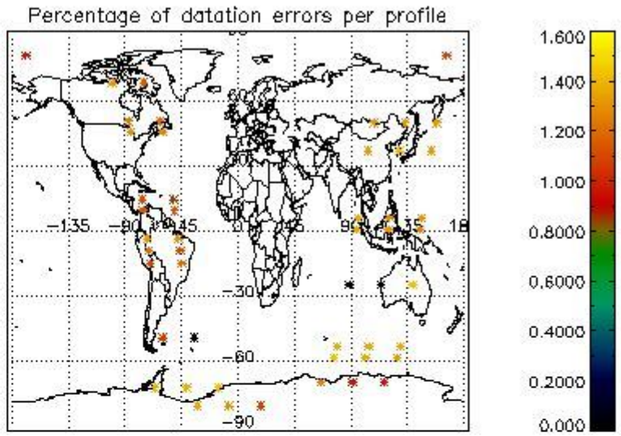
At least one measurement with demodulation flag set:	18.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

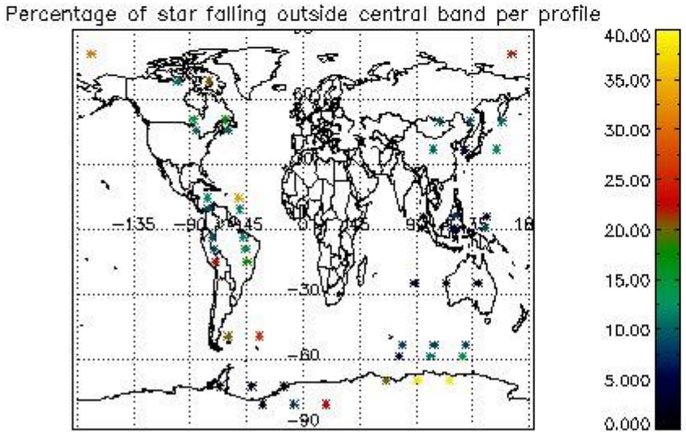
5.2 Plot quality information per product (time dependant)

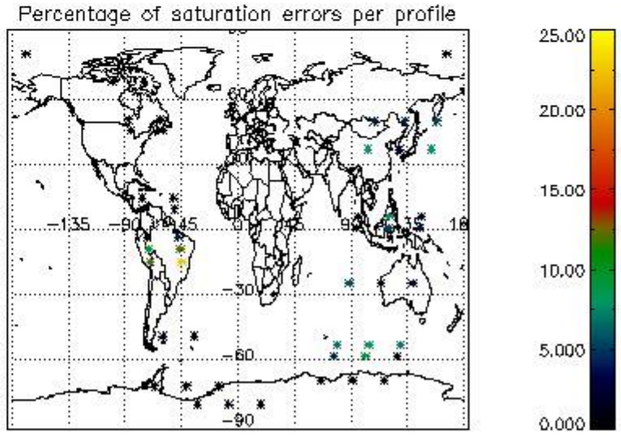


5.3 Plot quality information per product (world map)









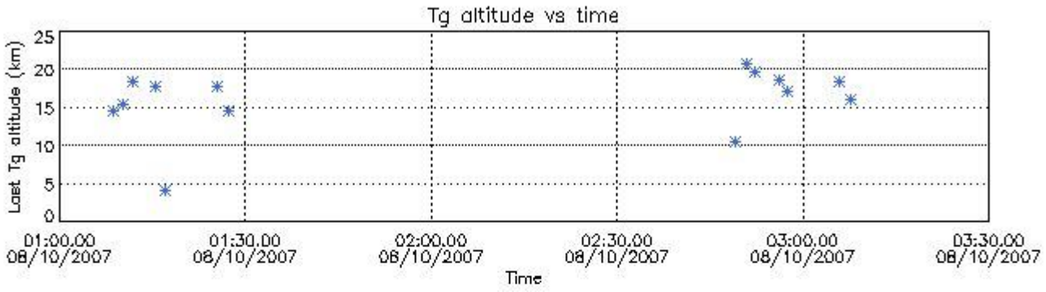
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

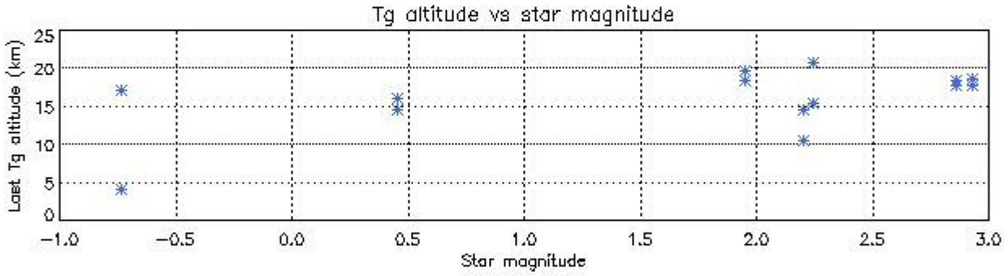
6.1 Statistics on tangent altitude lost:

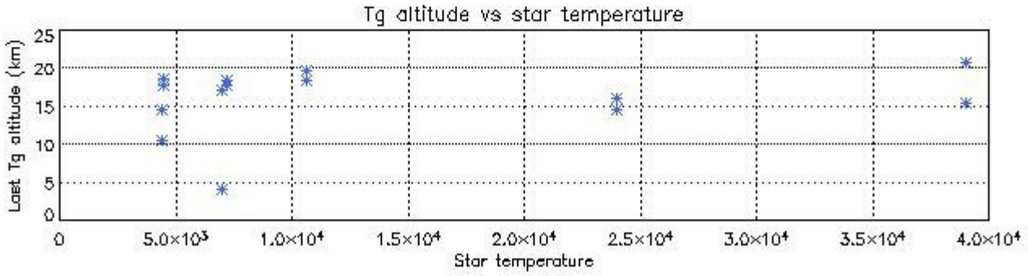
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.001	19.604	10.237
St. deviation:	4.2929	5.5201	1.8889
Maximum:	20.783	29.902	11.573
Minimum:	4.0843	3.5635	8.9018
Number of data:	14.000	30.000	2.0000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

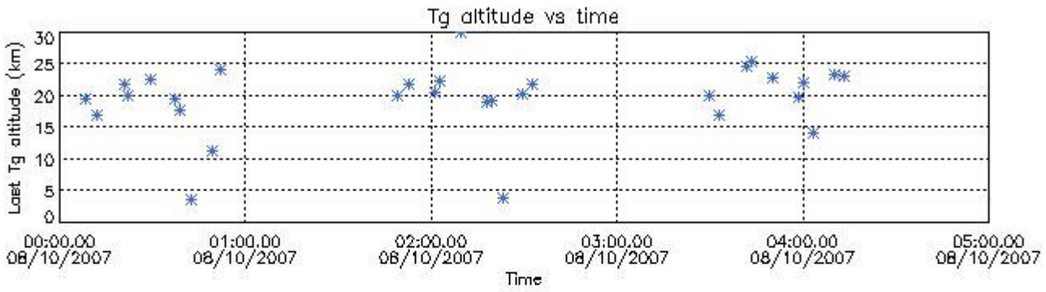


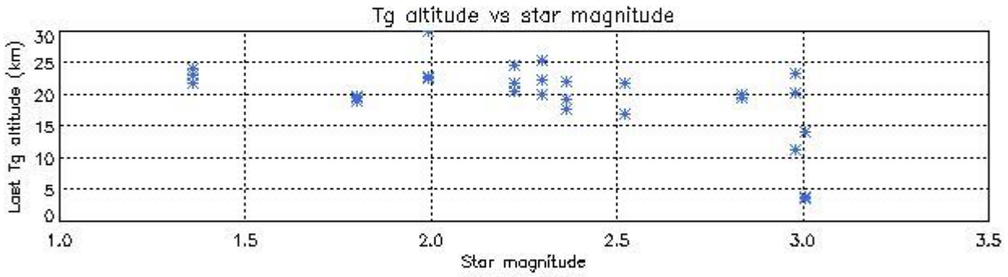


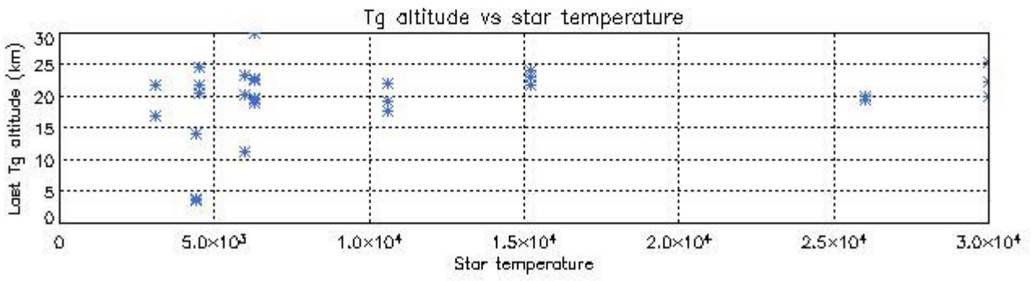


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

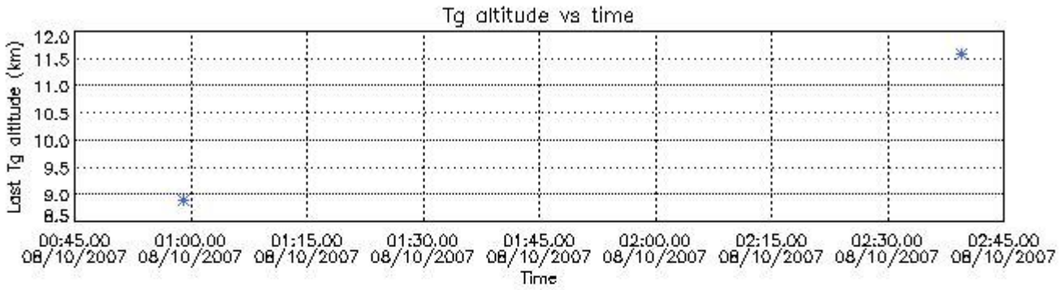


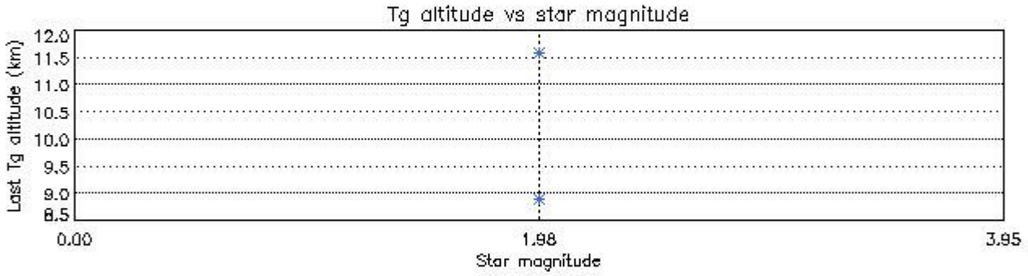


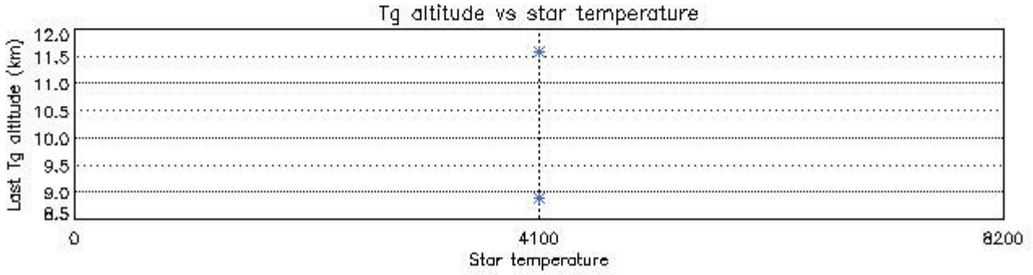


6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost





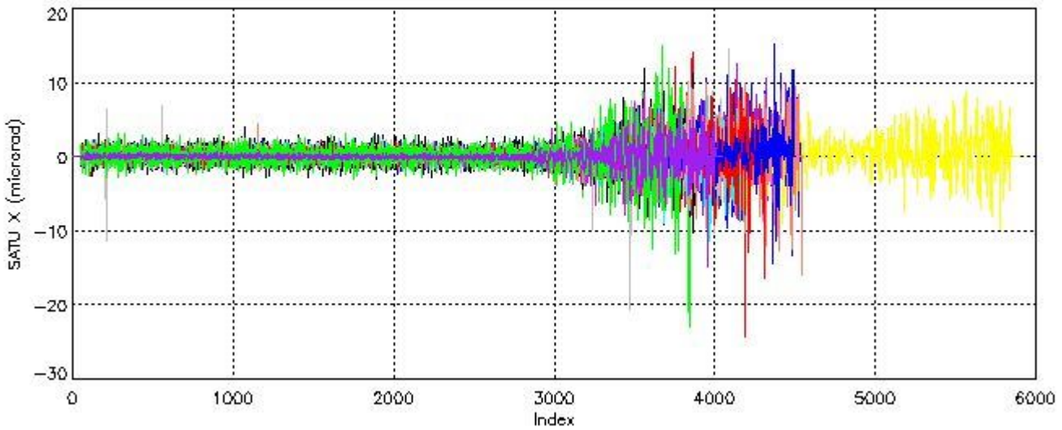


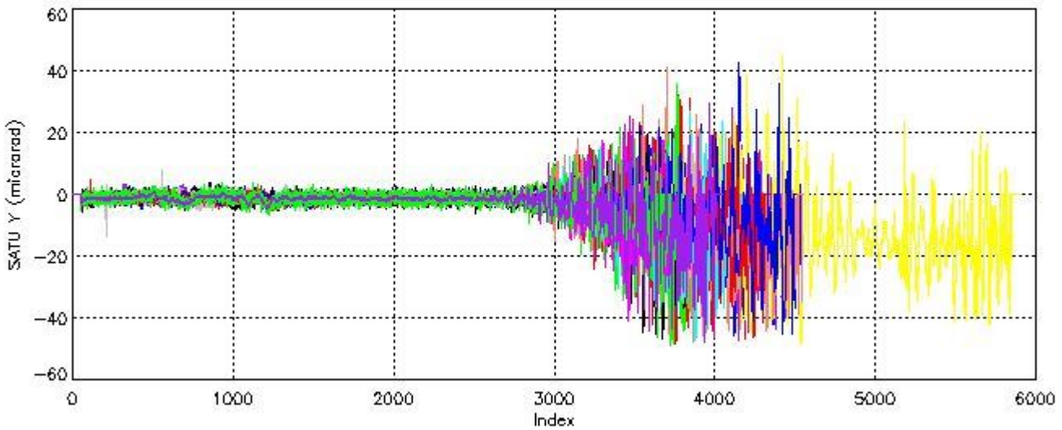
7. Star Acquisition and Tracking Unit (SATU)

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 functin 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 frecuency 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:	0.14450	-1.1316	0.084467	-1.3902
St. deviation:	0.48088	1.0606	0.70851	1.3320
Maximum:	6.8000	7.8000	6.2000	6.9000
Minimum:	-11.300	-13.600	-4.9000	-8.1000

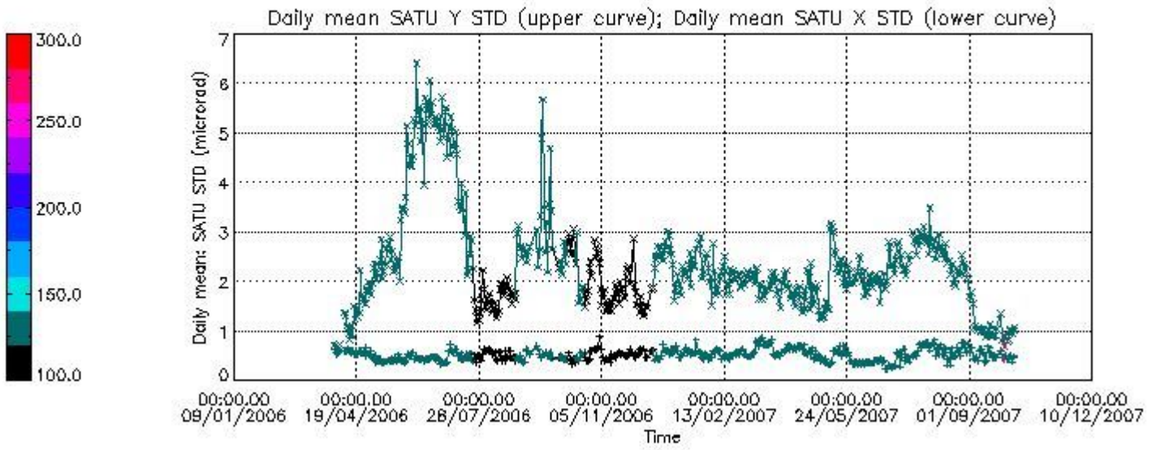
Number of data:	13400.	13400.	25200.	25200.

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.

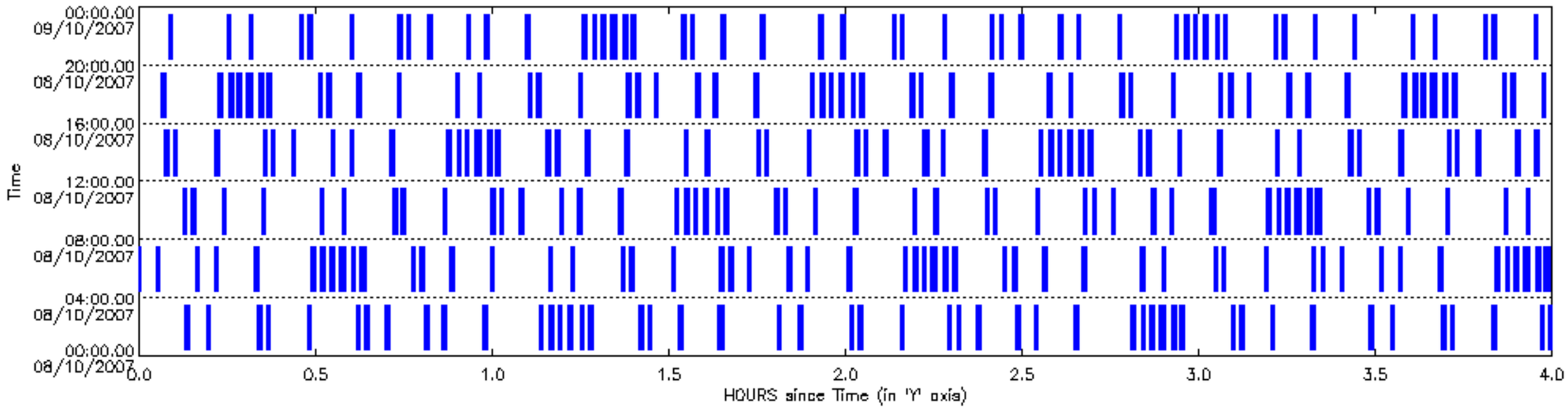
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

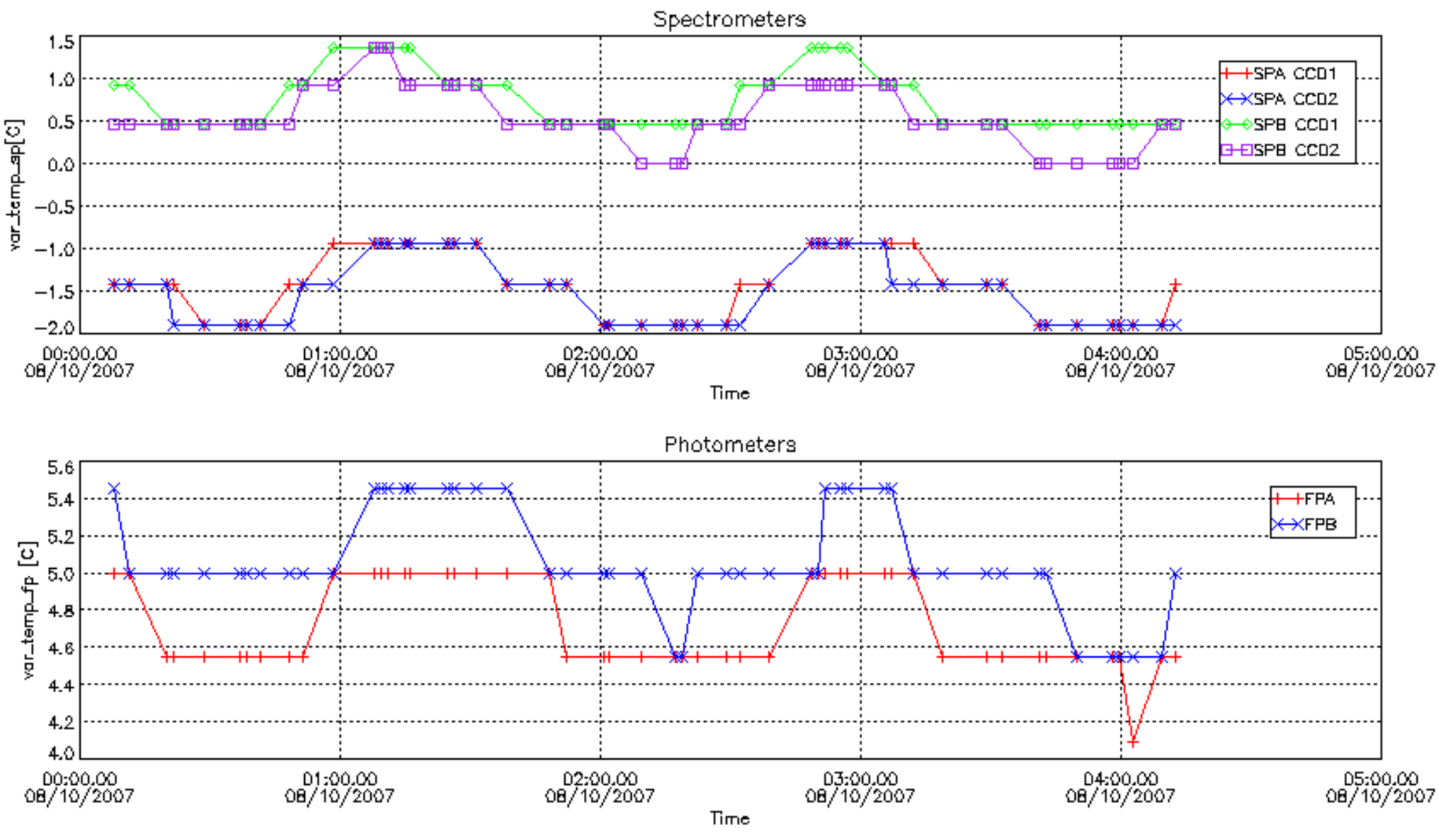


8. Auxiliary Data Files used for the production reported in section 2.4

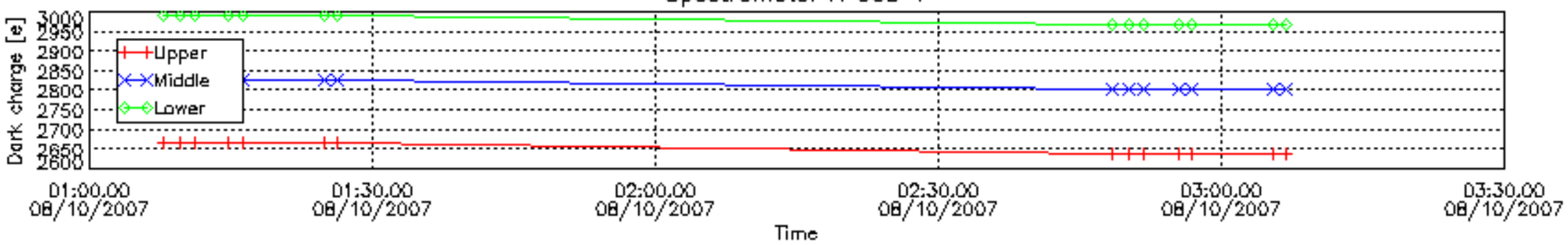
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	08-OCT-2007 00:07:42
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070928_104909_20070927_000000_20100101_000000	1	08-OCT-2007 00:07:42
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	08-OCT-2007 00:07:42
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-OCT-2007 00:07:42
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	08-OCT-2007 00:07:42
ECMWF_FILE	AUX_ECF_AXNECM20071007_061110_20071007_210000_20071008_090000	1	08-OCT-2007 00:07:42
ECMWF_FILE	AUX_ECF_AXNECM20071007_180113_20071008_030000_20071008_150000	46	08-OCT-2007 03:57:57
OPTIONAL_ECMWF_FILE	MISSING	1	08-OCT-2007 00:07:42
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20071007_213521_000057382062_00186_29298_4309.N1	1	08-OCT-2007 00:07:42
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20071007_231618_000057382062_00187_29299_4310.N1	12	08-OCT-2007 01:07:53
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20071008_005715_000041442062_00188_29300_4311.N1	26	08-OCT-2007 02:17:21
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20071008_035235_000054192062_00190_29302_4313.N1	46	08-OCT-2007 03:57:57

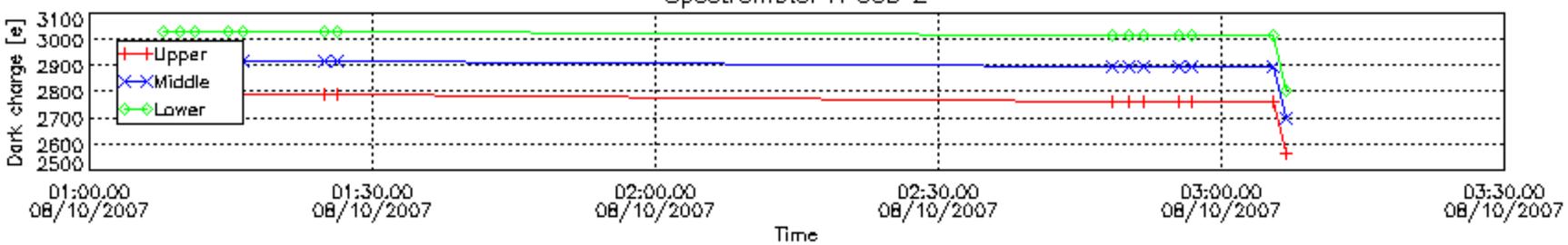

00:00.00
09/10/2007
20:00.00
08/10/2007
16:00.00
08/10/2007
12:00.00
08/10/2007
08:00.00
08/10/2007
04:00.00
08/10/2007
00:00.00
08/10/2007
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)


Spectrometers
var_temp_sp[C]
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
08/10/2007
01:00.00
08/10/2007
02:00.00
08/10/2007
03:00.00
08/10/2007
04:00.00
08/10/2007
05:00.00
08/10/2007
Time
Photometers
var_temp_fp [C]
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
FPA
FPB
00:00.00
08/10/2007
01:00.00
08/10/2007
02:00.00
08/10/2007
03:00.00
08/10/2007
04:00.00
08/10/2007
05:00.00
08/10/2007
Time

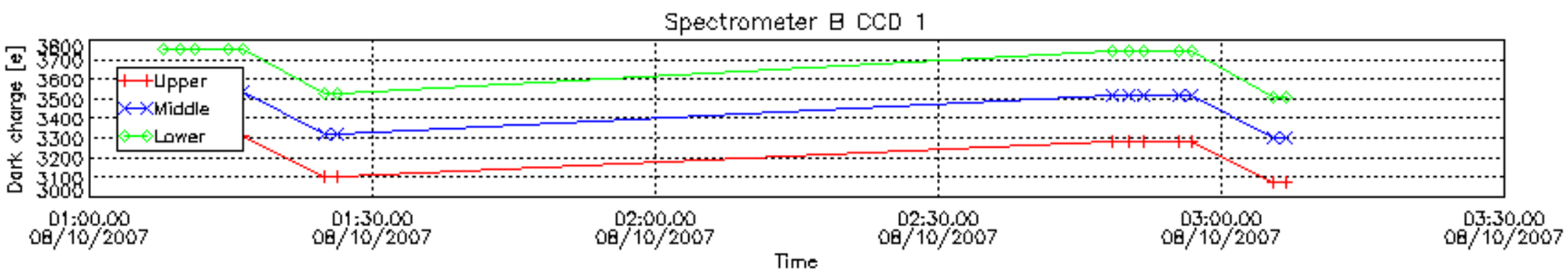
Spectrometer A CCD 1



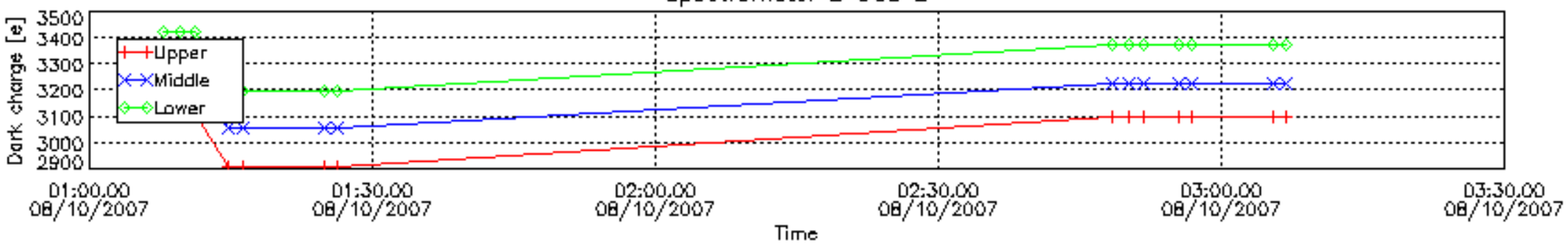
Spectrometer A CCD 2



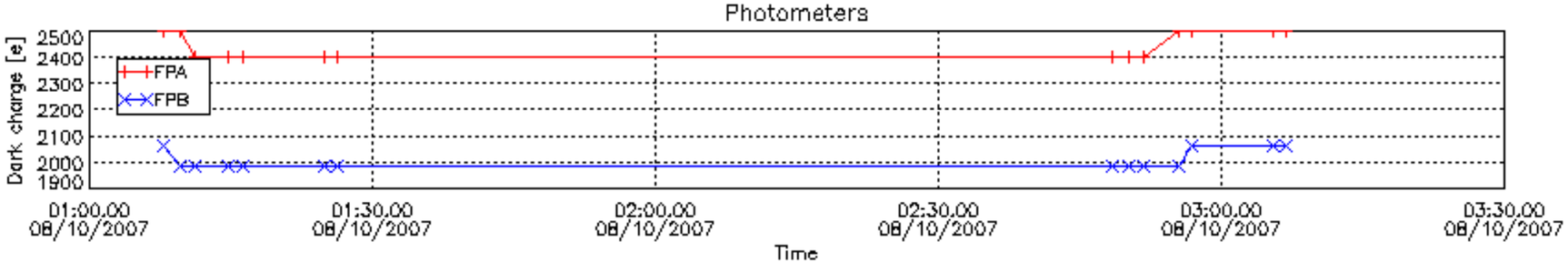
Spectrometer B CCD 1

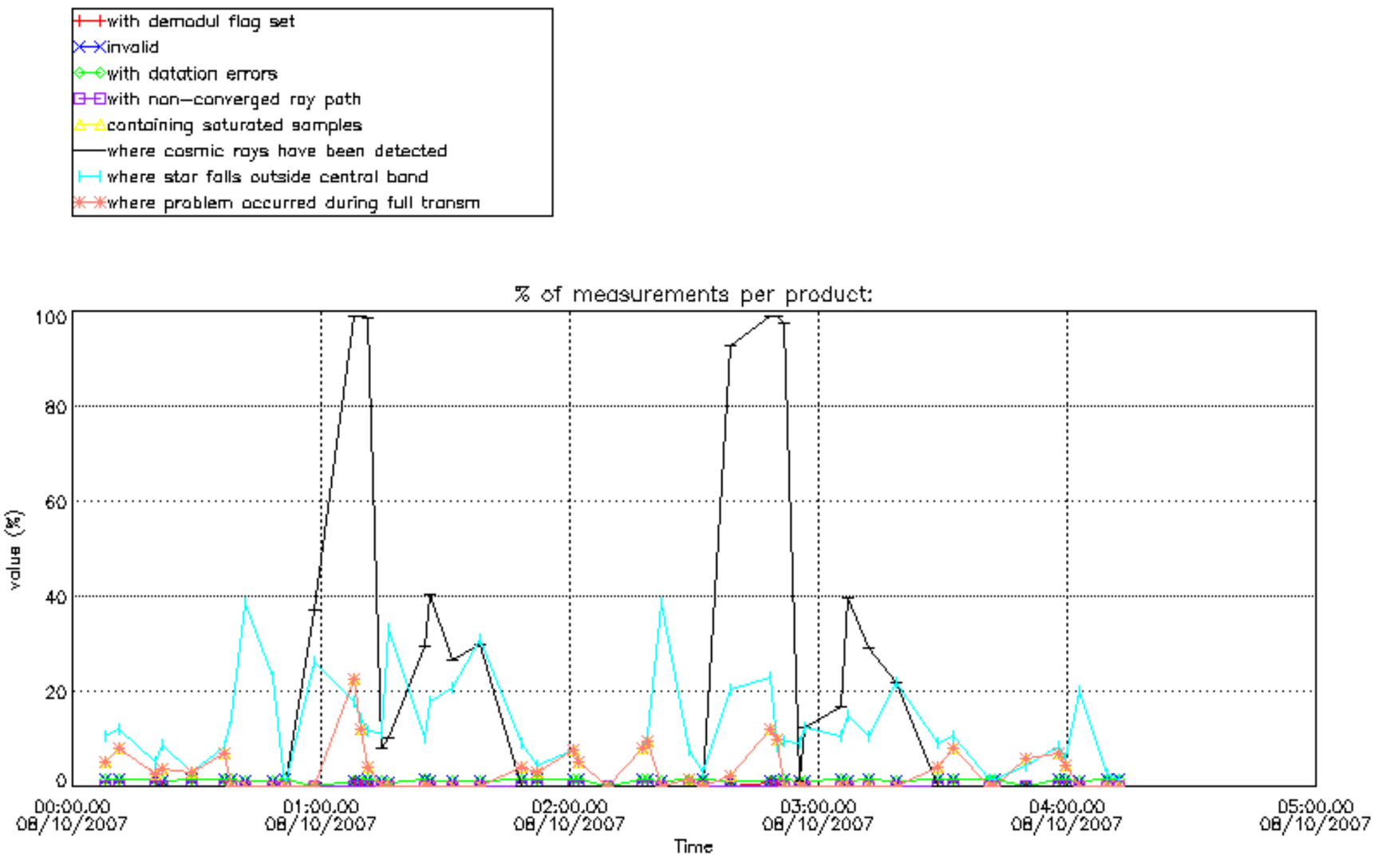


Spectrometer B CCD 2

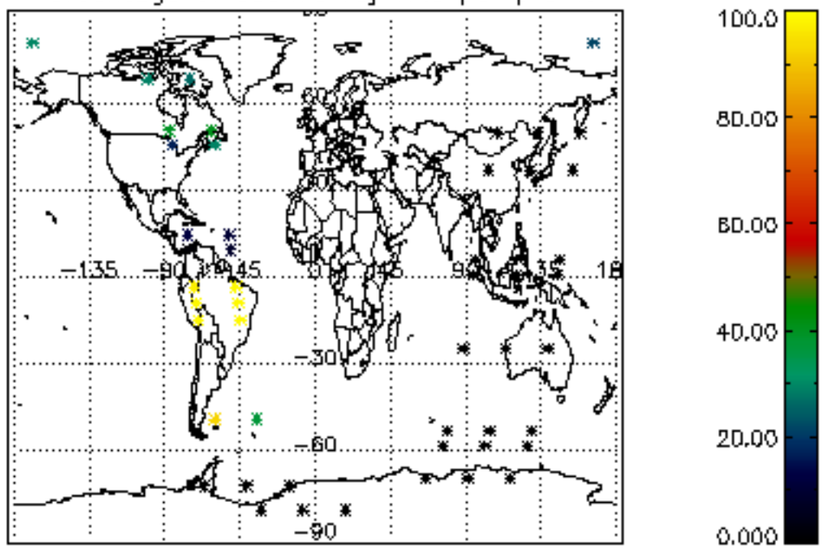


Photometers

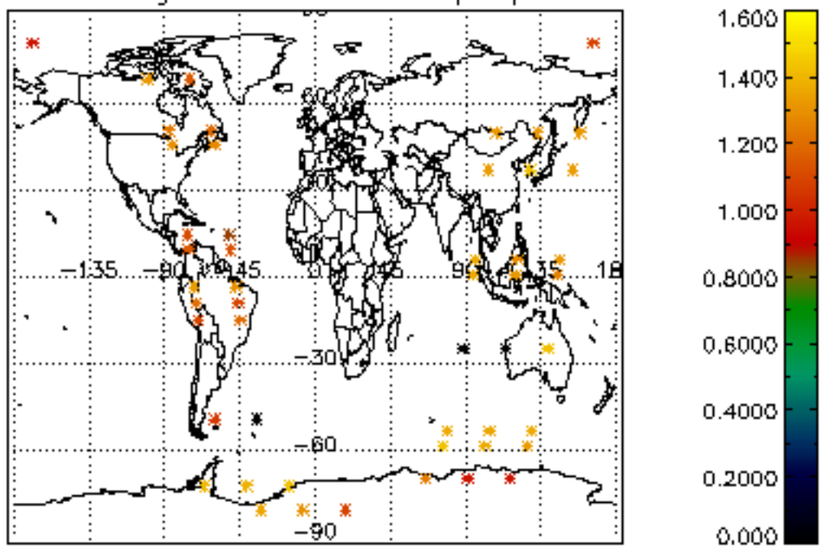



with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
100
80
60
40
20
0
value (%)
00:00.00
08/10/2007
01:00.00
08/10/2007
02:00.00
08/10/2007
03:00.00
08/10/2007
04:00.00
08/10/2007
05:00.00
08/10/2007
Time

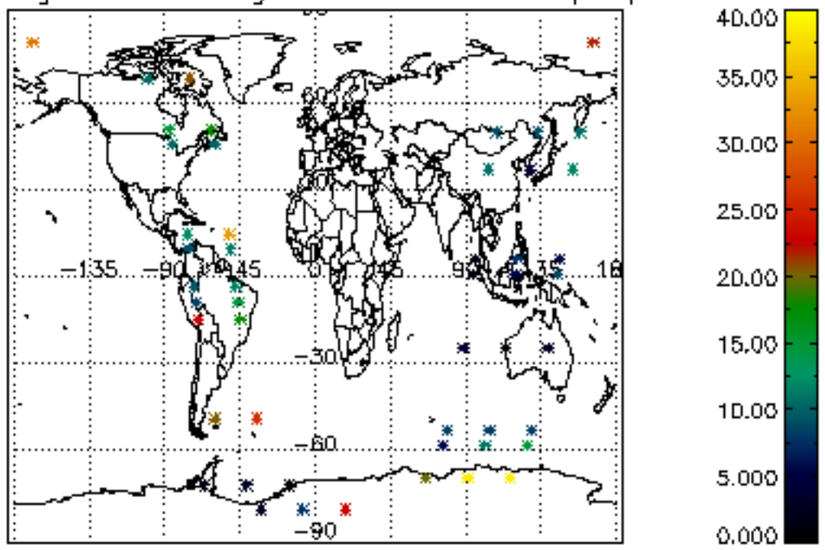
Percentage of cosmic ray hits per profile



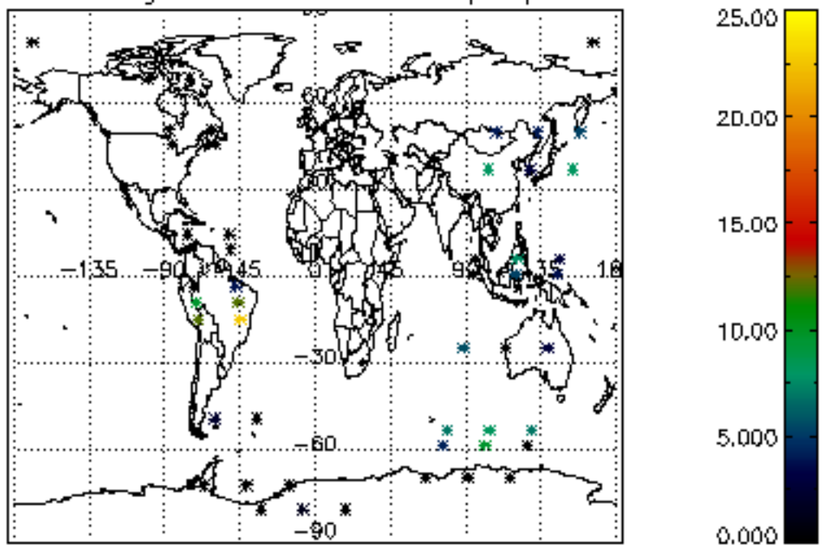
Percentage of datation errors per profile



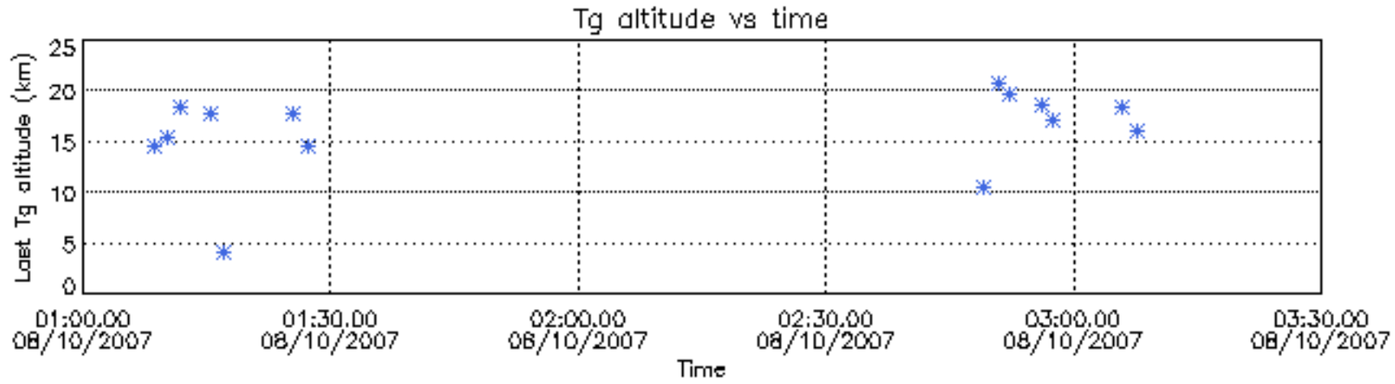
Percentage of star falling outside central band per profile

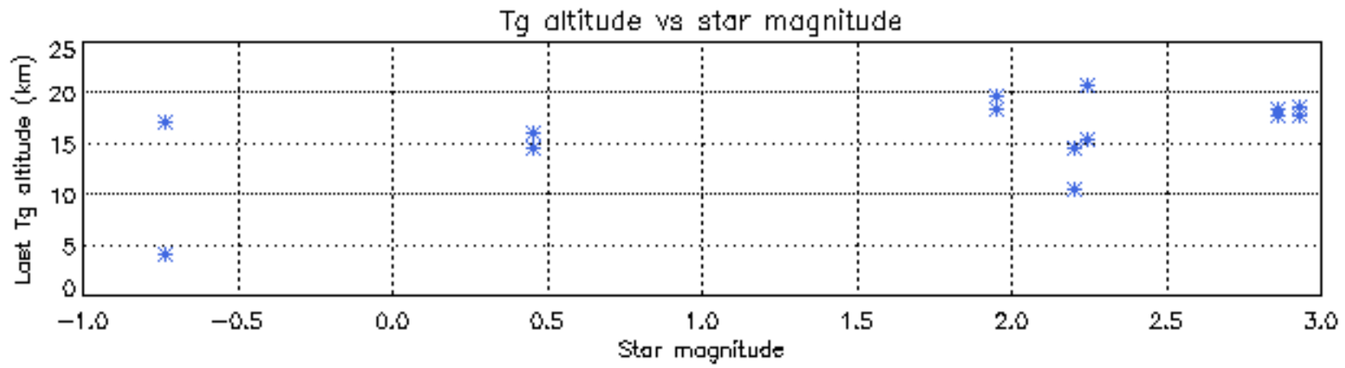


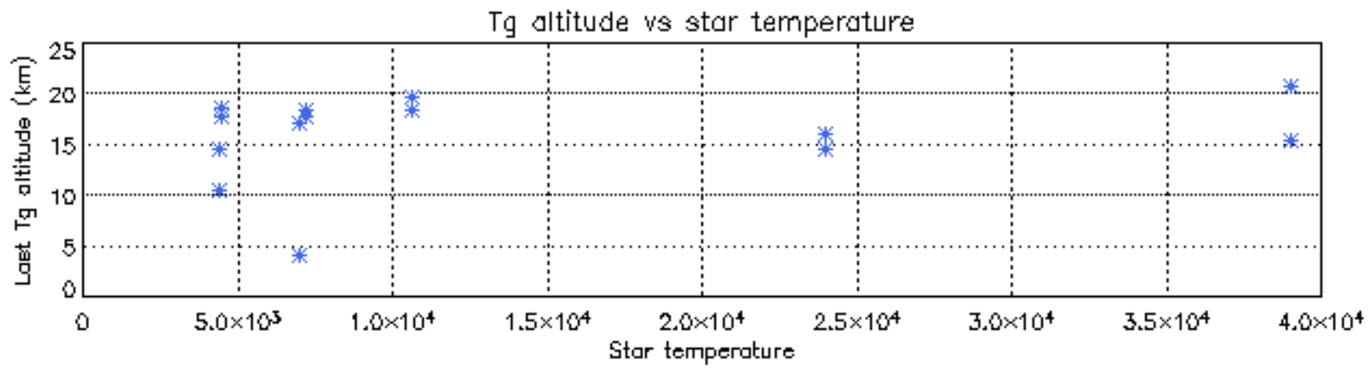
Percentage of saturation errors per profile



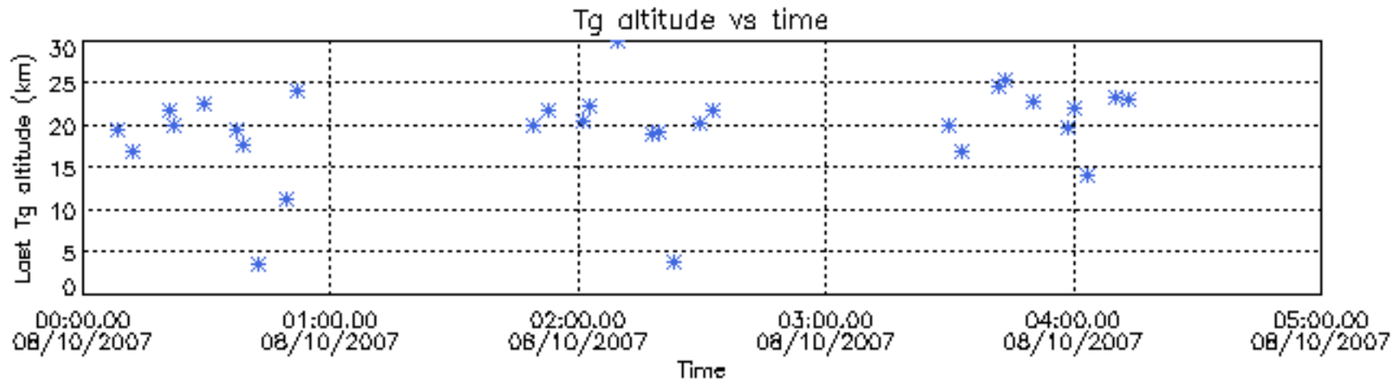
Tangent altitude at which the star is lost

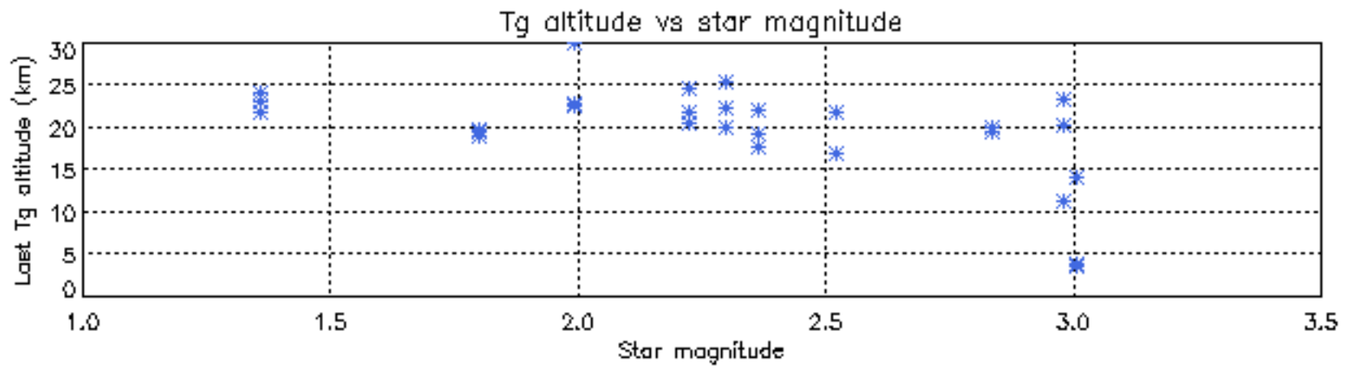


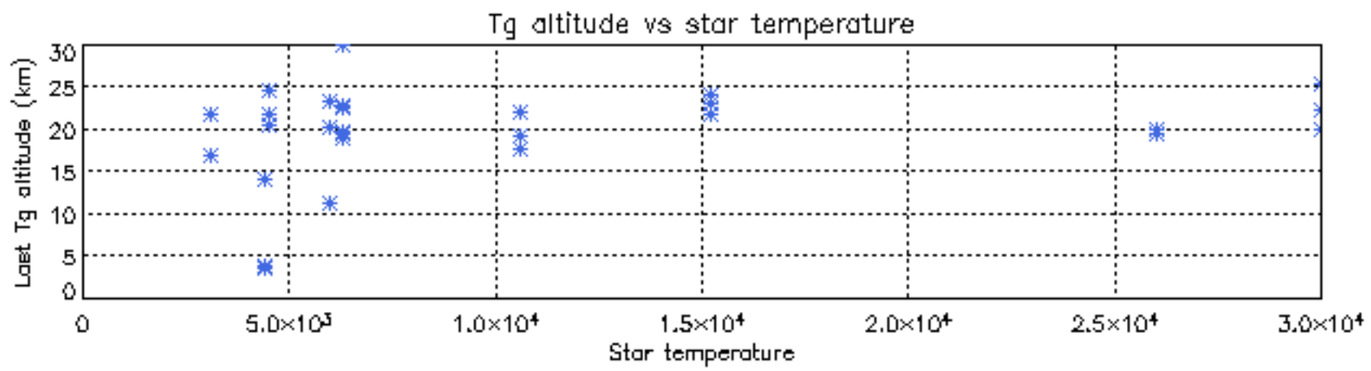




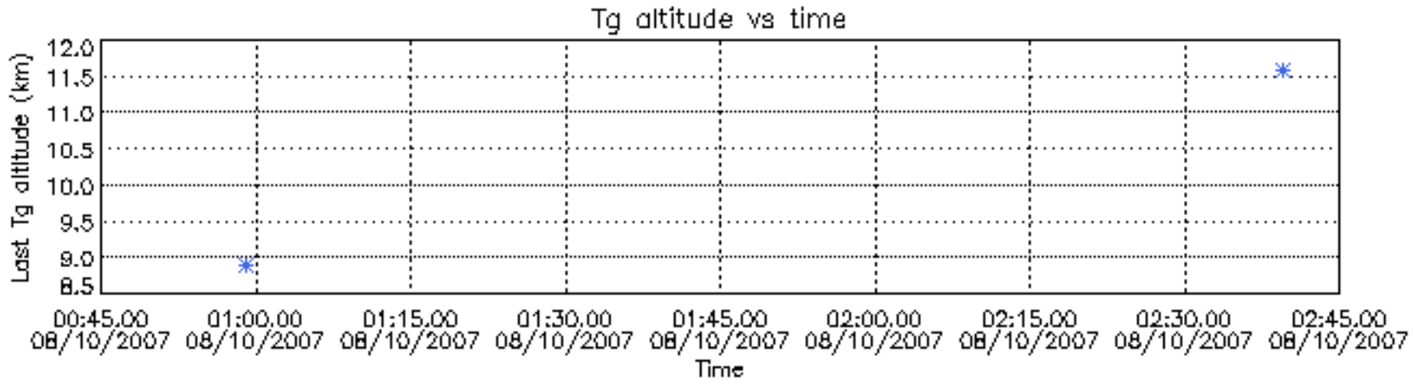
Tangent altitude at which the star is lost

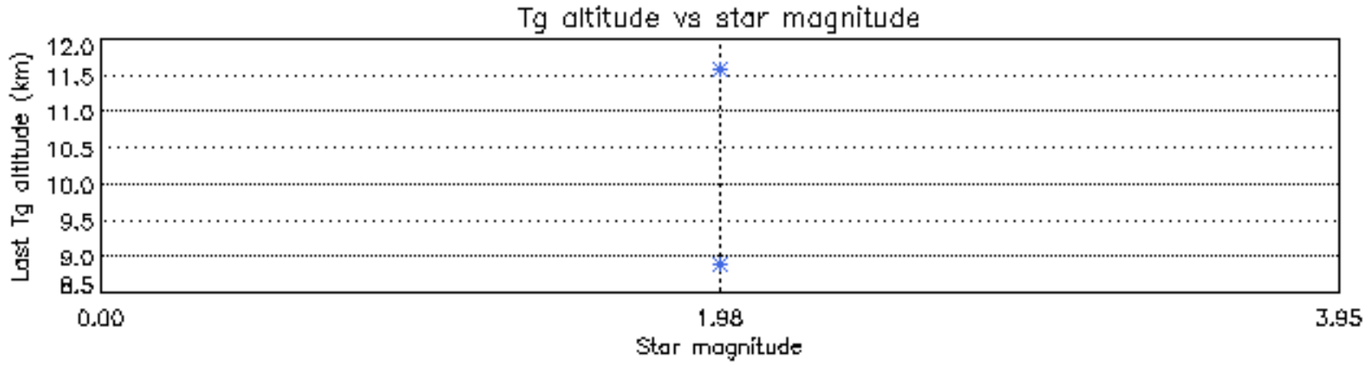


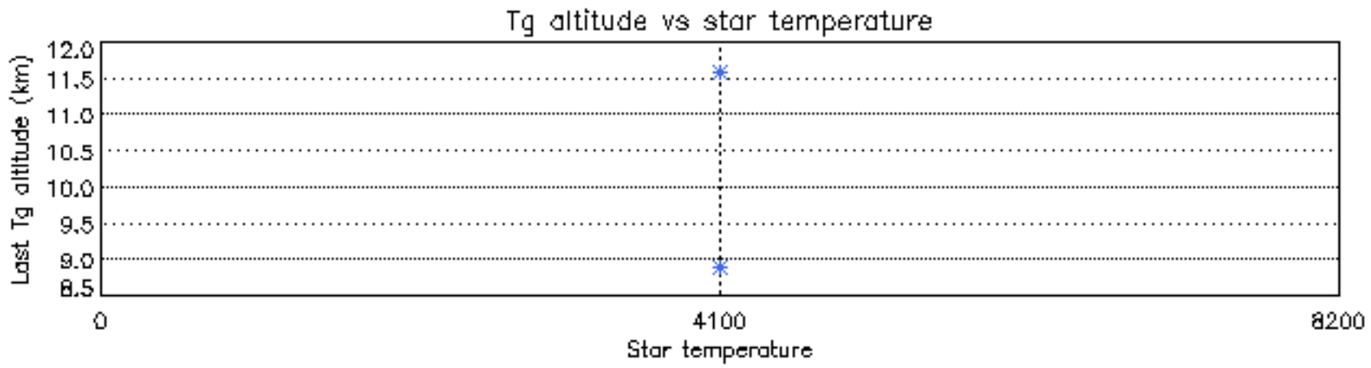


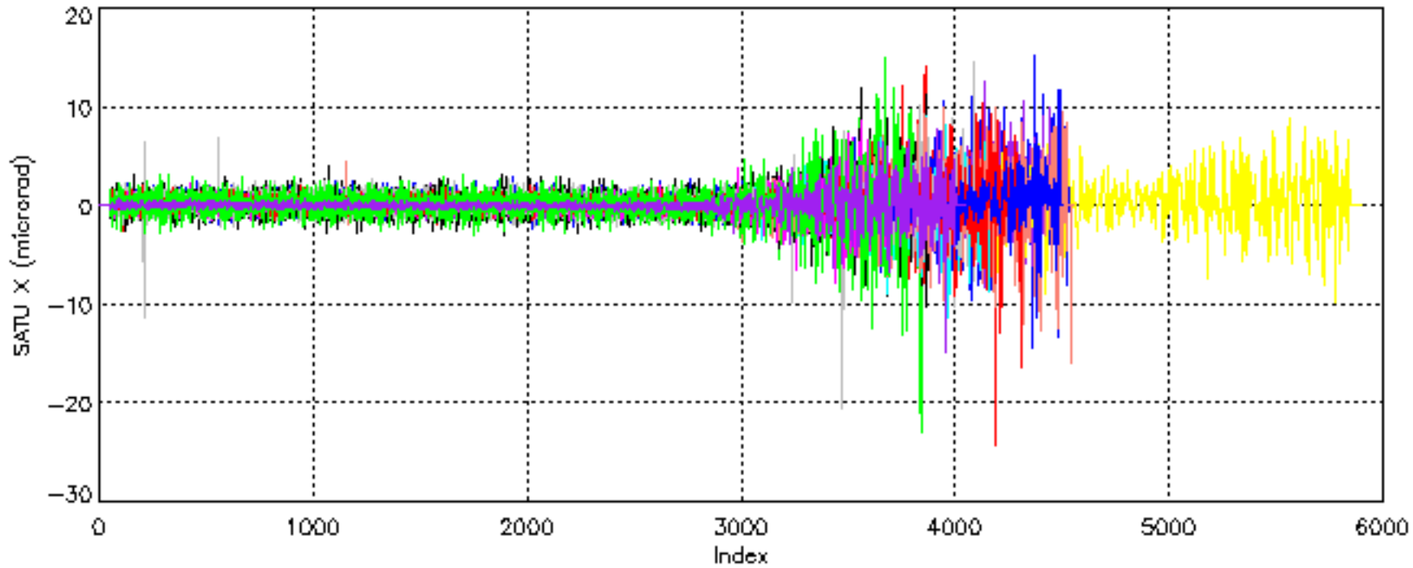


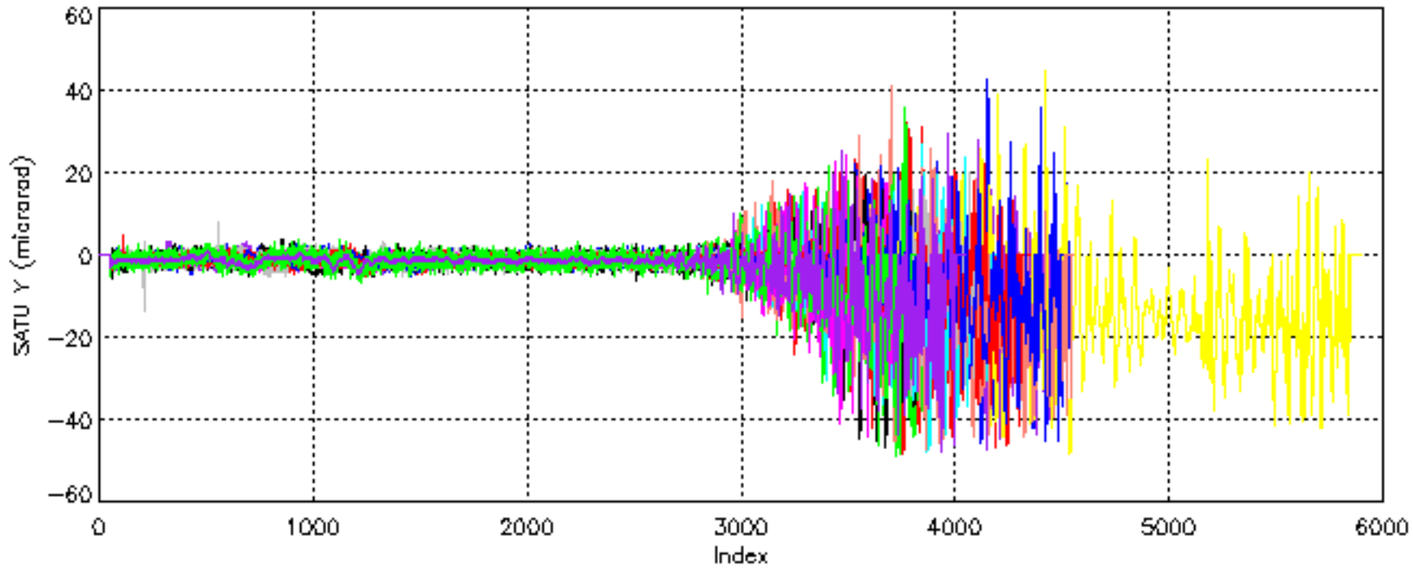
Tangent altitude at which the star is lost

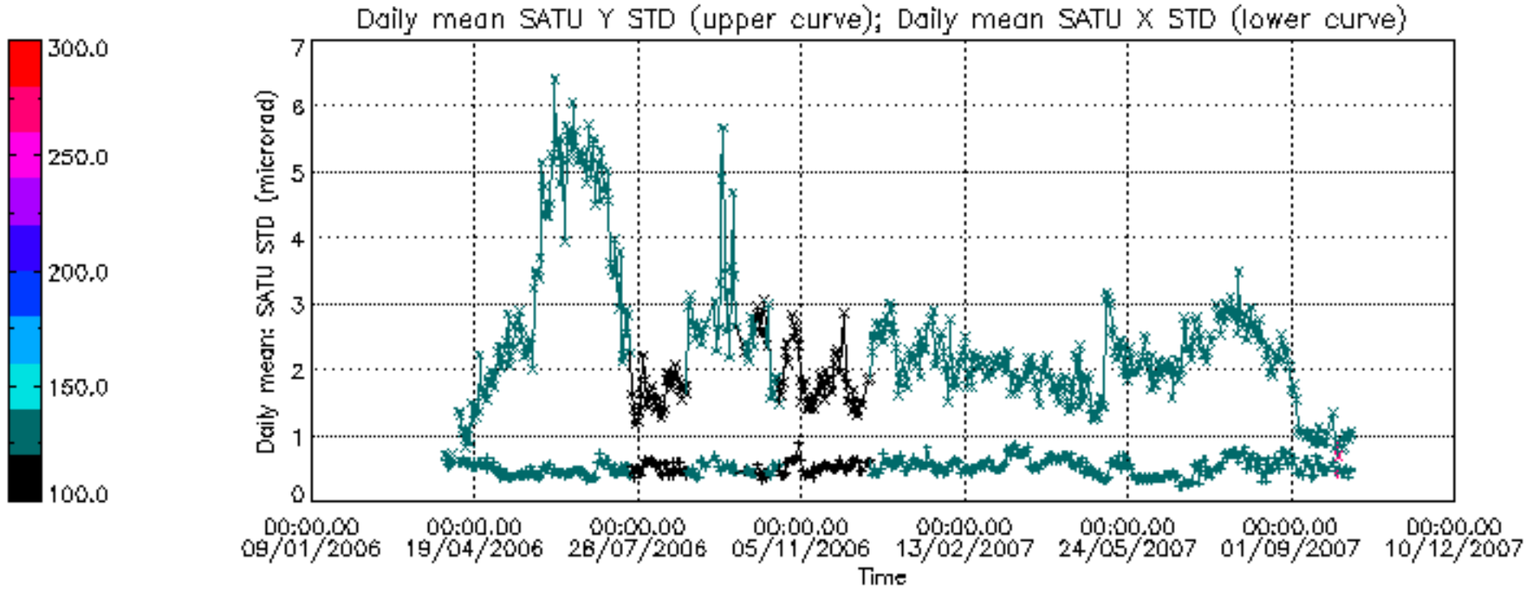







20
10
0
−10
−20
−30
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
Index


60
40
20
0
−20
−40
−60
SATU Y (microrad)
0
1000
2000
3000
4000
5000
6000
Index


Daily mean SATU Y STD (upper curve); Daily mean SATU X STD (lower curve)
300.0
250.0
200.0
150.0
100.0
Daily mean: SATU STD [microrad]
0
1
2
3
4
5
6
7
00:00.00 09/01/2006
00:00.00 19/04/2006
00:00.00 28/07/2006
00:00.00 05/11/2006
00:00.00 13/02/2007
00:00.00 24/05/2007
00:00.00 01/09/2007
00:00.00 10/12/2007
Time

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071001_012440_000039182062_00088_29200_4448.N1
1; -454.2; 01-OCT-2007 01:24:40; Dark ; 40.0; 132; 15Rho Pup ; 2.80; 6900;occ; 80; 0;29200
2; -296.3; 01-OCT-2007 01:27:17; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29200
3; -142.0; 01-OCT-2007 01:29:52; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;29200
4; 82.2; 01-OCT-2007 01:33:36; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29201
5; 166.3; 01-OCT-2007 01:35:00; Dark ; 59.0; 2; Alp Car ;-0.74; 7000;occ; 118; 0;29201
6; 729.7; 01-OCT-2007 01:44:23; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29201
7; 817.4; 01-OCT-2007 01:45:51; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29201
8; 1139.7; 01-OCT-2007 01:51:13; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29201
9; 2167.3; 01-OCT-2007 02:08:21; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29201
10; 2386.2; 01-OCT-2007 02:12:00; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29201
11; 2952.9; 01-OCT-2007 02:21:27; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;29201
12; 3428.6; 01-OCT-2007 02:29:22; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29201
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2;-2041.1; 01-OCT-2007 02:38:49; Bright; 32.5; 82; 48Bet UMa ; 2.37; 10600;occ; 65; 0;29201
3;-1449.1; 01-OCT-2007 02:48:40; Bright; 42.0; 166; 17Eps Leo ; 2.98; 6000;occ; 84; 0;29201
4; -876.7; 01-OCT-2007 02:58:13; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29201
5; -295.8; 01-OCT-2007 03:07:54; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29201
6; -141.4; 01-OCT-2007 03:10:28; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;29201
7; 83.0; 01-OCT-2007 03:14:13; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29202
8; 167.1; 01-OCT-2007 03:15:37; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29202
9; 730.2; 01-OCT-2007 03:25:00; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29202
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11; 1140.1; 01-OCT-2007 03:31:50; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;29202
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13; 2386.3; 01-OCT-2007 03:52:36; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29202
14; 2952.7; 01-OCT-2007 04:02:02; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;29202
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9; 4588.8; 01-OCT-2007 21:15:18; Bright; 54.0; 166; 17Eps Leo ; 2.98; 6000;occ; 108; 0;29212
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9; 1143.1; 01-OCT-2007 21:58:28; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;29213

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   9;   -2.1; 05-OCT-2007 02:46:56; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;29258
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   9;   -1.3; 05-OCT-2007 04:27:32; Dark ; 59.0;   0;   ; 0.00;   0;occ; 118;   0;29259
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  17; 6201.7; 22-OCT-2007 13:59:25; Dark  ;  37.5;   29;   Bet Car  ; 1.67; 10200;occ;  75;   0;29508
  18; 6447.3; 22-OCT-2007 14:03:31; Dark  ;  47.0;    2;   Alp Car  ;-0.74;  7000;occ;  94;   0;29508
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  13; 5815.1; 22-OCT-2007 15:33:35; Dark  ;  38.5;  113;   Mu  Vel  ; 2.69;  5000;occ;  77;   0;29509
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  10; 3424.9; 22-OCT-2007 19:55:33; Bright; 52.0;   49; 1Alp UMi ; 1.99; 6300;occ; 104;   0;29512
  11; 3626.9; 22-OCT-2007 19:58:55; Bright; 38.0;   60; 7Bet UMi ; 2.08; 3950;occ; 76;   0;29512
  12; 3919.6; 22-OCT-2007 20:03:47; Bright; 53.0;   36; 50Alp UMa ; 1.80; 6300;occ; 106;   0;29512
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  10; 4660.0; 28-OCT-2007 17:06:25; Bright;  36.0;   96; 68Del Leo  ; 2.56;  9300;occ;  72;   0;29596
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   4; 2677.8; 28-OCT-2007 19:54:35; Bright; 39.5;   73; 57Gam1And ; 2.26; 13100;occ; 79;   0;29598
   5; 2867.8; 28-OCT-2007 19:57:45; Bright; 37.0;   68; 18Alp Cas ; 2.22; 4500;occ; 74;   0;29598
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   7; 3424.1; 28-OCT-2007 20:07:01; Bright; 37.0;   49; 1Alp UMi ; 1.99; 6300;occ; 74;   0;29598
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