GOMOS Daily Report 31-AUG-2008

Level 0 and Level 1 products

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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.

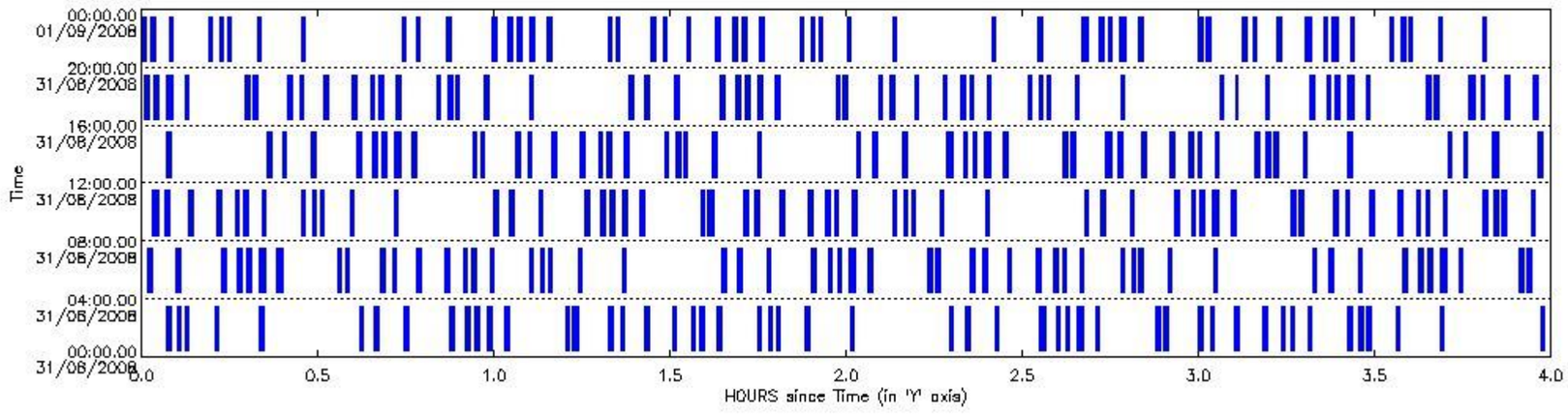
Item	Value
Time of report generation	02SEP2008 05:32:37
Data source version	GOMOS/5.00
Start time of products	31AUG2008 00:04:17
Stop time of products	31AUG2008 04:00:52
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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)

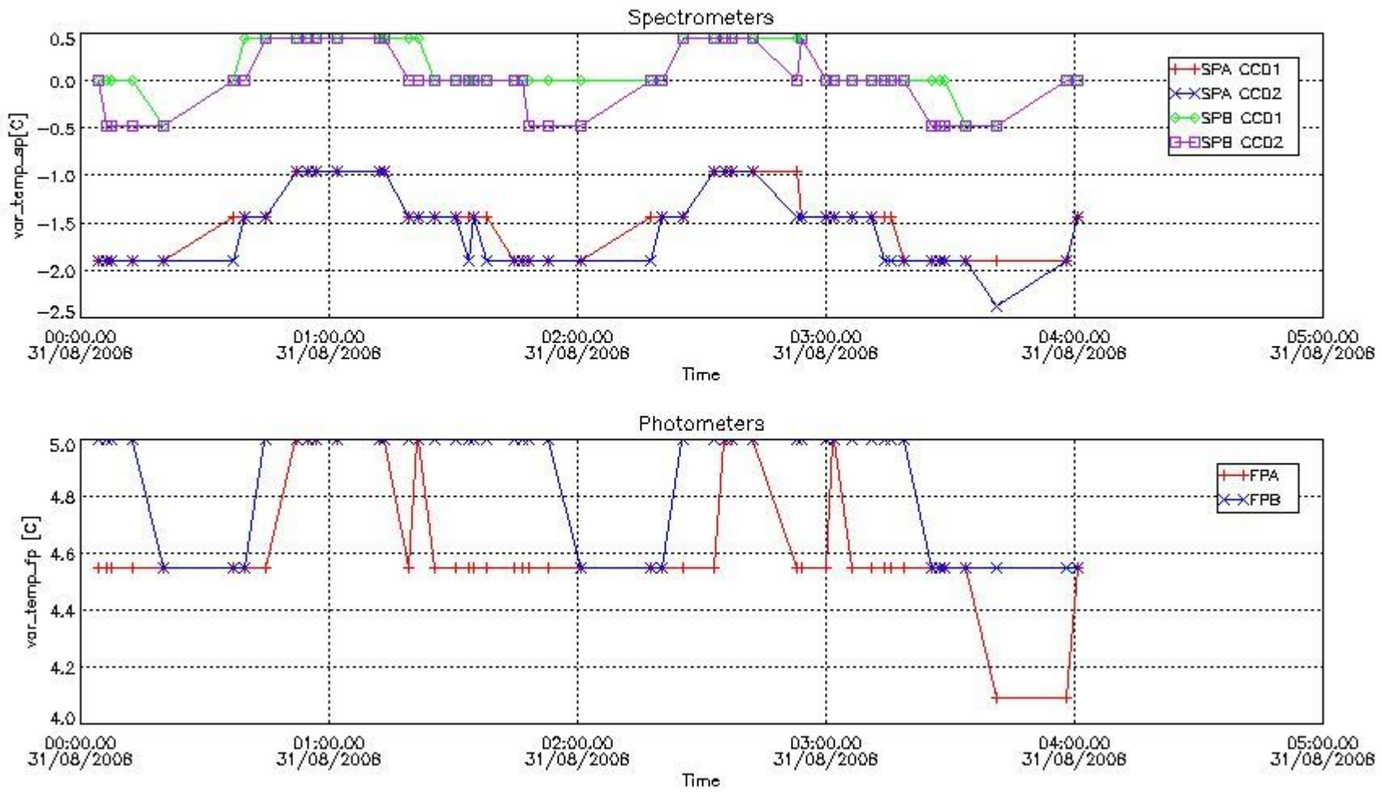
No missing products.

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_1PNPDE20080831_000417_000000352071_00374_33995_4754.N1	31-AUG-2008 00:04:17	Bright	35.000	92	53Eps Cyg	2.5000	4500.0	70	33995	No
2	GOM_TRA_1PNPDE20080831_000609_000000332071_00374_33995_4755.N1	31-AUG-2008 00:06:09	Bright	33.000	66	37Gam Cyg	2.2080	5900.0	66	33995	No
3	GOM_TRA_1PNPDE20080831_000728_000000342071_00374_33995_4756.N1	31-AUG-2008 00:07:28	Bright	33.500	19	50Alp Cyg	1.2460	10500.	67	33995	No
4	GOM_TRA_1PNPDE20080831_001227_000000372071_00374_33995_4757.N1	31-AUG-2008 00:12:27	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	33995	No
5	GOM_TRA_1PNPDE20080831_002005_000000362071_00374_33995_4758.N1	31-AUG-2008 00:20:05	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	33995	No
6	GOM_TRA_1PNPDE20080831_003701_000000412071_00374_33995_4759.N1	31-AUG-2008 00:37:01	Bright	41.000	24	66Alp Gem	1.5800	10200.	82	33995	No
7	GOM_TRA_1PNPDE20080831_003939_000000482071_00374_33995_4760.N1	31-AUG-2008 00:39:39	Bright	47.500	170	27Eps Gem	3.0000	9700.0	95	33995	No
8	GOM_TRA_1PNPDE20080831_004442_000000452071_00374_33995_4761.N1	31-AUG-2008 00:44:42	Twilight	45.000	8	10Alp CMi	0.40000	6500.0	90	33995	No
9	GOM_TRA_1PNPDE20080831_005218_000000502071_00374_33995_4884.N1	31-AUG-2008 00:52:18	Dark	49.500	1	9Alp CMa	-1.4400	11000.	99	33995	No
10	GOM_TRA_1PNPDE20080831_005504_000000442071_00374_33995_4885.N1	31-AUG-2008 00:55:04	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	33995	No
11	GOM_TRA_1PNPDE20080831_005640_000000422071_00374_33995_4886.N1	31-AUG-2008 00:56:40	Dark	42.000	117	Pi Pup	2.7060	3800.0	84	33995	No
12	GOM_TRA_1PNPDE20080831_010150_000000472071_00374_33995_4887.N1	31-AUG-2008 01:01:50	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	33995	No

13	GOM_TRA_1PNPDE20080831_011208_000000402071_00375_33996_4888.N1	31-AUG-2008 01:12:08	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	33996	No
14	GOM_TRA_1PNPDE20080831_011324_000000522071_00375_33996_4889.N1	31-AUG-2008 01:13:24	Dark	51.500	9	Alp Eri	0.45300	24000.	103	33996	No
15	GOM_TRA_1PNPDE20080831_011922_000000462071_00375_33996_4890.N1	31-AUG-2008 01:19:22	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	33996	No
16	GOM_TRA_1PNPDE20080831_012128_000000432071_00375_33996_4891.N1	31-AUG-2008 01:21:28	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	33996	No
17	GOM_TRA_1PNPDE20080831_012533_000000482071_00375_33996_4892.N1	31-AUG-2008 01:25:33	Straylight	47.500	18	24Alp PsA	1.1660	9700.0	95	33996	No
18	GOM_TRA_1PNPDE20080831_013024_000000382071_00375_33996_4893.N1	31-AUG-2008 01:30:24	Bright	38.000	142	49Del Cap	2.8500	8900.0	76	33996	No
19	GOM_TRA_1PNPDE20080831_013332_000000382071_00375_33996_4894.N1	31-AUG-2008 01:33:32	Bright	37.500	154	22Bet Aqr	2.8990	5700.0	75	33996	No
20	GOM_TRA_1PNPDE20080831_013502_000000412071_00375_33996_4895.N1	31-AUG-2008 01:35:02	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	33996	No
21	GOM_TRA_1PNPDE20080831_013802_000000402071_00375_33996_4896.N1	31-AUG-2008 01:38:02	Bright	39.500	61	8Eps Peg	2.1000	3900.0	79	33996	No
22	GOM_TRA_1PNPDE20080831_014453_000000342071_00375_33996_4897.N1	31-AUG-2008 01:44:53	Bright	33.500	92	53Eps Cyg	2.5000	4500.0	67	33996	No
23	GOM_TRA_1PNPDE20080831_014645_000000332071_00375_33996_4898.N1	31-AUG-2008 01:46:45	Bright	33.000	66	37Gam Cyg	2.2080	5900.0	66	33996	No
24	GOM_TRA_1PNPDE20080831_014803_000000332071_00375_33996_4899.N1	31-AUG-2008 01:48:03	Bright	33.000	19	50Alp Cyg	1.2460	10500.	66	33996	No
25	GOM_TRA_1PNPDE20080831_015302_000000362071_00375_33996_4900.N1	31-AUG-2008 01:53:02	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	33996	No
26	GOM_TRA_1PNPDE20080831_020040_000000342071_00375_33996_4901.N1	31-AUG-2008 02:00:40	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	33996	No
27	GOM_TRA_1PNPDE20080831_021737_000000382071_00375_33996_5038.N1	31-AUG-2008 02:17:37	Bright	37.500	24	66Alp Gem	1.5800	10200.	75	33996	No
28	GOM_TRA_1PNPDE20080831_022015_000000502071_00375_33996_5039.N1	31-AUG-2008 02:20:15	Bright	50.000	170	27Eps Gem	3.0000	9700.0	100	33996	No
29	GOM_TRA_1PNPDE20080831_022518_000000422071_00375_33996_5040.N1	31-AUG-2008 02:25:18	Twilight	41.500	8	10Alp CMi	0.40000	6500.0	83	33996	No
30	GOM_TRA_1PNPDE20080831_023254_000000562071_00375_33996_5041.N1	31-AUG-2008 02:32:54	Dark	55.500	1	9Alp CMa	-1.4400	11000.	111	33996	No
31	GOM_TRA_1PNPDE20080831_023541_000000452071_00375_33996_5042.N1	31-AUG-2008 02:35:41	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	33996	No
32	GOM_TRA_1PNPDE20080831_023717_000000432071_00375_33996_5043.N1	31-AUG-2008 02:37:17	Dark	42.500	117	Pi Pup	2.7060	3800.0	85	33996	No
33	GOM_TRA_1PNPDE20080831_024226_000000432071_00375_33996_5044.N1	31-AUG-2008 02:42:26	Dark	43.000	2	Alp Car	-0.73600	7000.0	86	33996	No
34	GOM_TRA_1PNPDE20080831_025244_000000402071_00376_33997_5045.N1	31-AUG-2008 02:52:44	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	33997	No
35	GOM_TRA_1PNPDE20080831_025401_000000492071_00376_33997_5046.N1	31-AUG-2008 02:54:01	Dark	48.500	9	Alp Eri	0.45300	24000.	97	33997	No
36	GOM_TRA_1PNPDE20080831_025958_000000502071_00376_33997_5047.N1	31-AUG-2008 02:59:58	Straylight	50.000	84	Alp Phe	2.3970	4500.0	100	33997	No
37	GOM_TRA_1PNPDE20080831_030204_000000382071_00376_33997_5048.N1	31-AUG-2008 03:02:04	Straylight	38.000	31	Alp Gru	1.7340	15200.	76	33997	No
38	GOM_TRA_1PNPDE20080831_030609_000000482071_00376_33997_5049.N1	31-AUG-2008 03:06:09	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	33997	No
39	GOM_TRA_1PNPDE20080831_031100_000000392071_00376_33997_5050.N1	31-AUG-2008 03:11:00	Bright	39.000	142	49Del Cap	2.8500	8900.0	78	33997	No
40	GOM_TRA_1PNPDE20080831_031408_000000372071_00376_33997_5051.N1	31-AUG-2008 03:14:08	Bright	37.000	154	22Bet Aqr	2.8990	5700.0	74	33997	No
41	GOM_TRA_1PNPDE20080831_031537_000000402071_00376_33997_5052.N1	31-AUG-2008 03:15:37	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	33997	No
42	GOM_TRA_1PNPDE20080831_031838_000000382071_00376_33997_5053.N1	31-AUG-2008 03:18:38	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	33997	No
43	GOM_TRA_1PNPDE20080831_032529_000000382071_00376_33997_5054.N1	31-AUG-2008 03:25:29	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	33997	No
44	GOM_TRA_1PNPDE20080831_032721_000000372071_00376_33997_5055.N1	31-AUG-2008 03:27:21	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	33997	No
45	GOM_TRA_1PNPDE20080831_032839_000000372071_00376_33997_5056.N1	31-AUG-2008 03:28:39	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	33997	No
46	GOM_TRA_1PNPDE20080831_033338_000000342071_00376_33997_5057.N1	31-AUG-2008 03:33:38	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	33997	No
47	GOM_TRA_1PNPDE20080831_034116_000000322071_00376_33997_5058.N1	31-AUG-2008 03:41:16	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	33997	No
48	GOM_TRA_1PNPDE20080831_035813_000000372071_00376_33997_5204.N1	31-AUG-2008 03:58:13	Bright	37.000	24	66Alp Gem	1.5800	10200.	74	33997	No
49	GOM_TRA_1PNPDE20080831_040052_000000482071_00376_33997_5205.N1	31-AUG-2008 04:00:52	Bright	48.000	170	27Eps Gem	3.0000	9700.0	96	33997	No

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

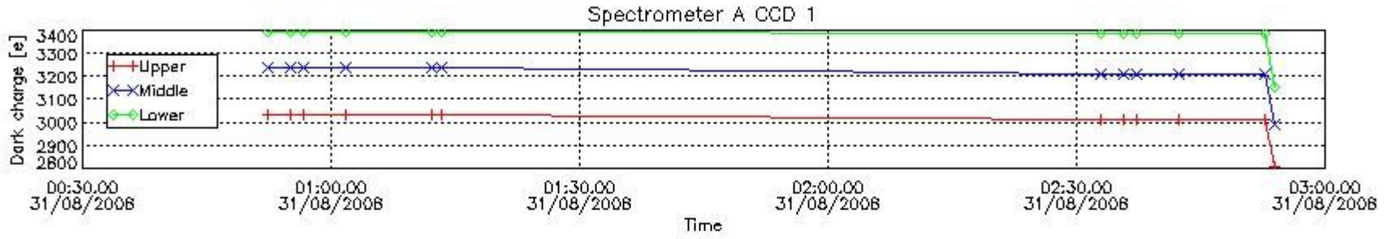


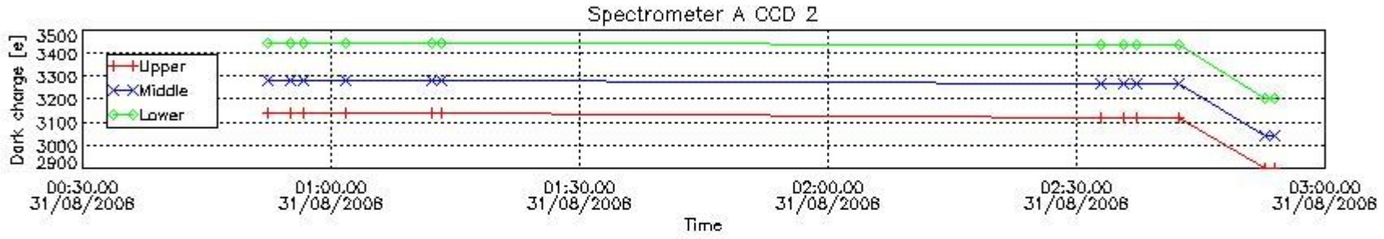
4. Overview of dark signal processing per product

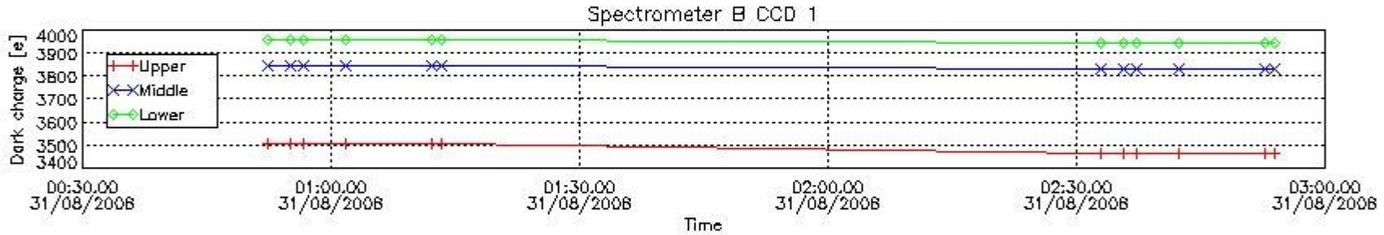
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

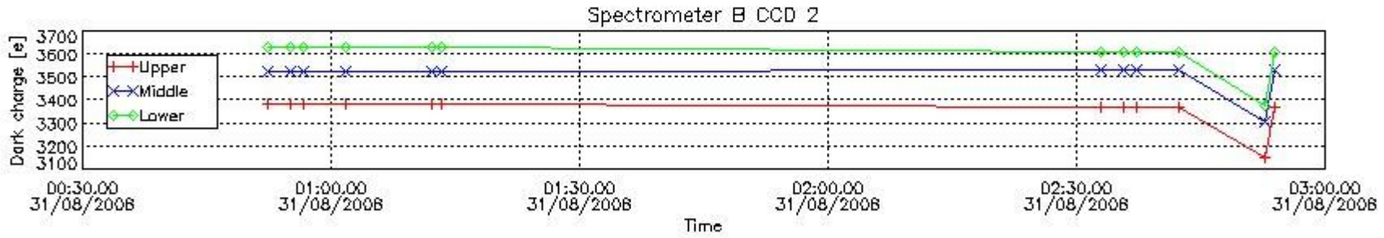
4.1 All products used the DSA observation for the DC computation

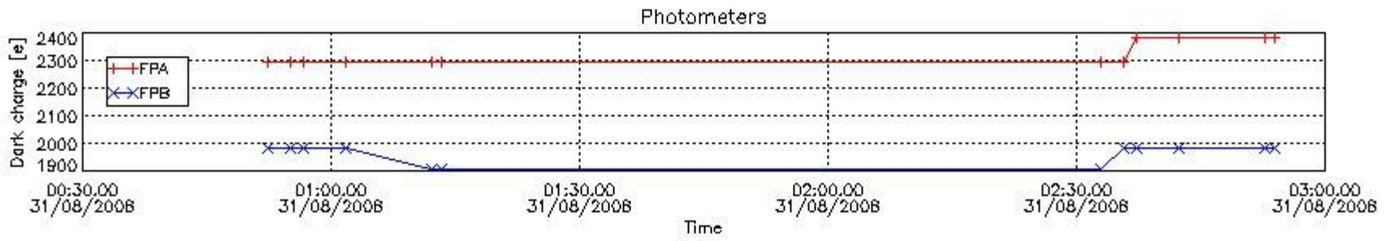
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











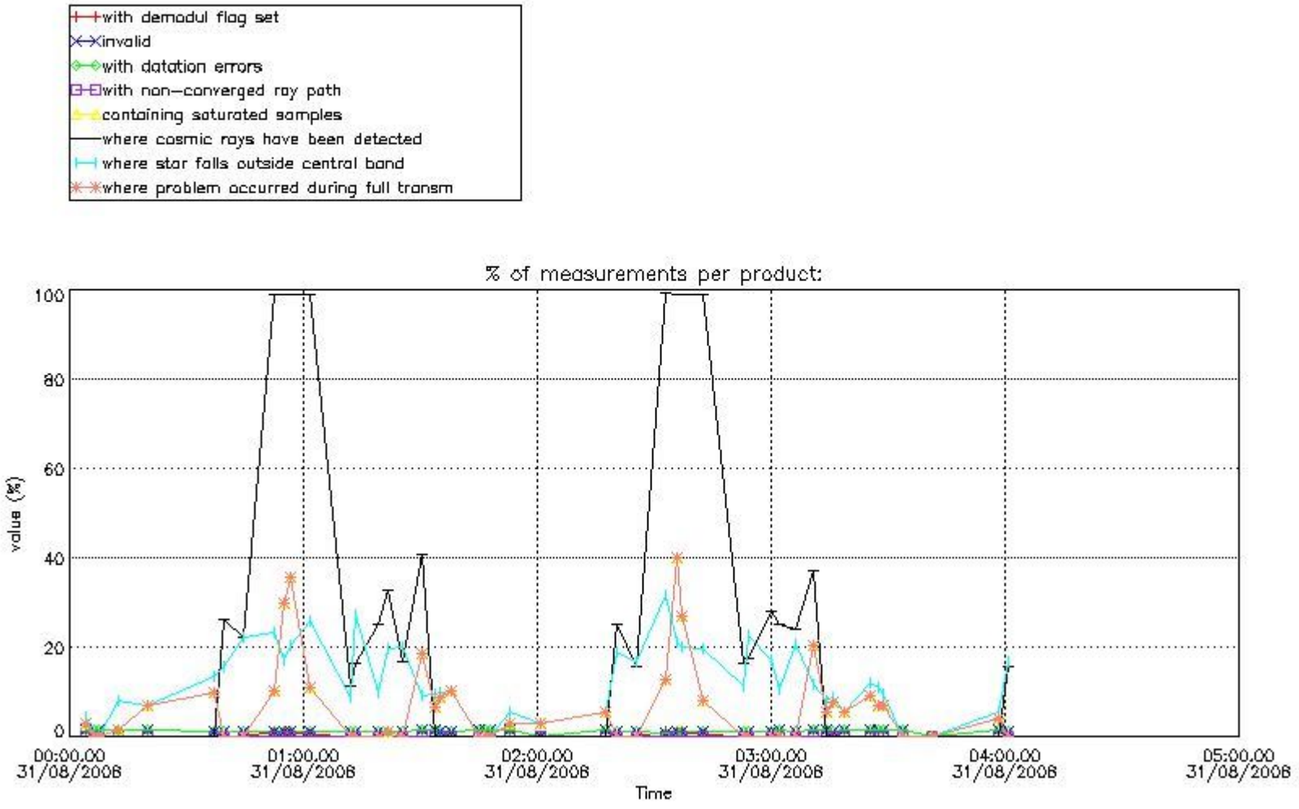
5. Demodulation flag and quality information monitoring

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:

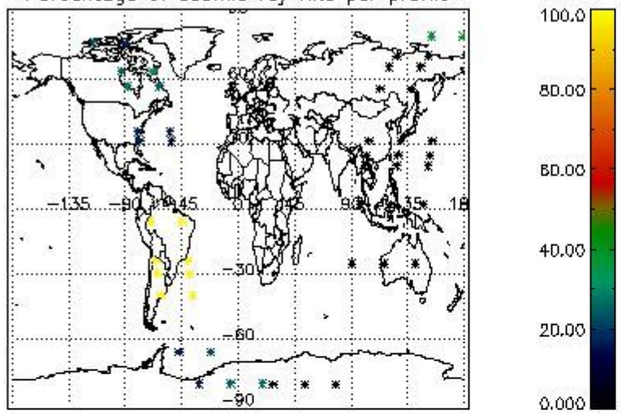
At least one measurement with demodulation flag set:	18.3673 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

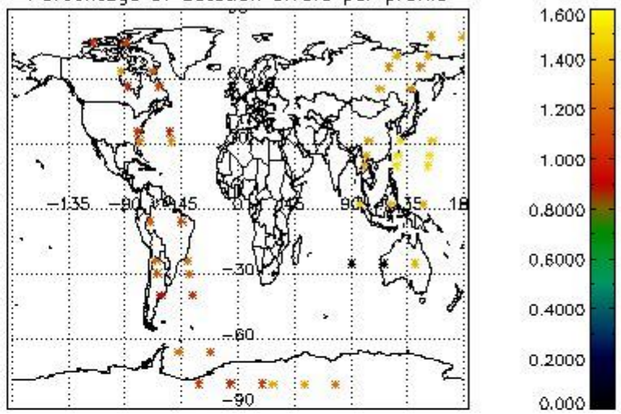


5.3 Plot quality information per product (world map)

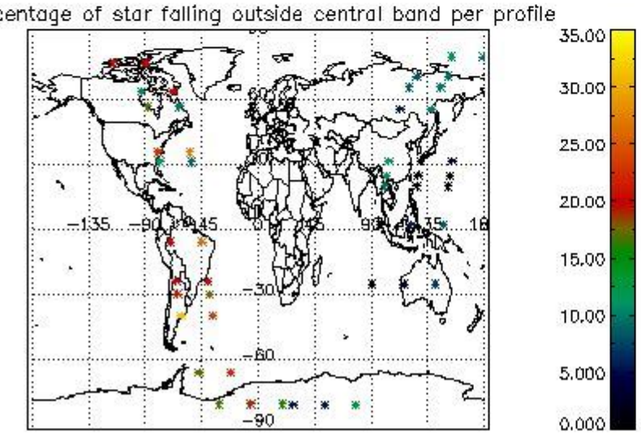
Percentage of cosmic ray hits per profile



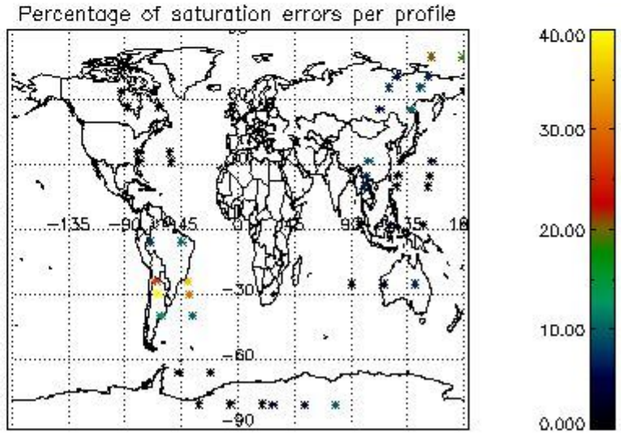
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



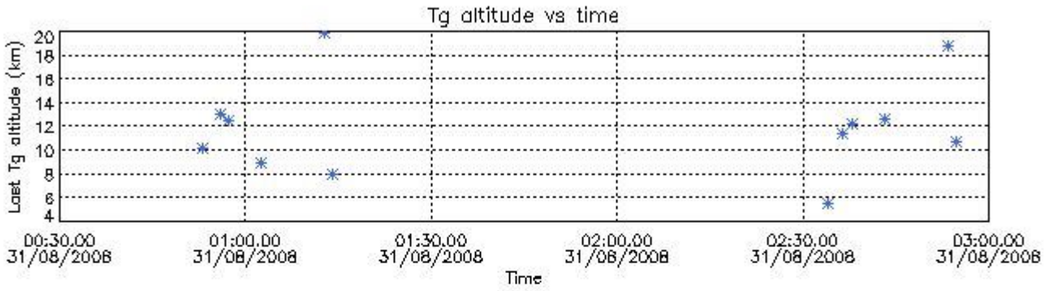
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

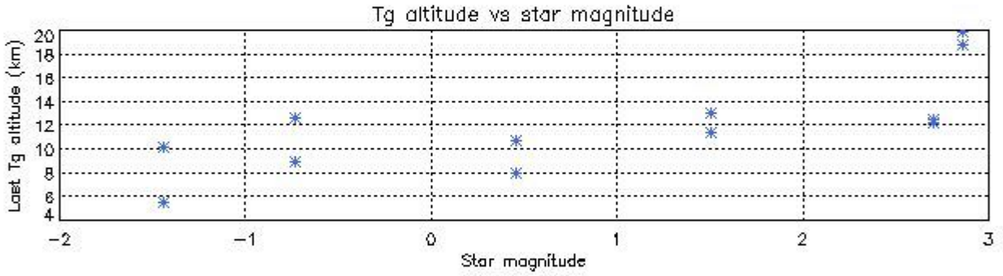
6.1 Statistics on tangent altitude lost:

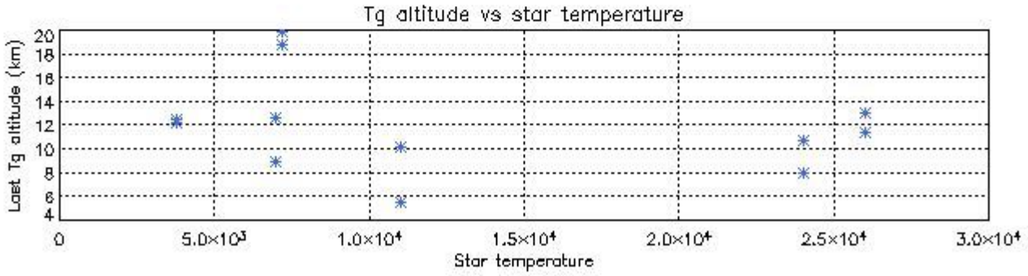
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.959	20.456	12.130
St. deviation:	4.0846	4.6146	2.2947
Maximum:	19.876	30.315	13.752
Minimum:	5.5350	11.677	10.507
Number of data:	12.000	29.000	2.0000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

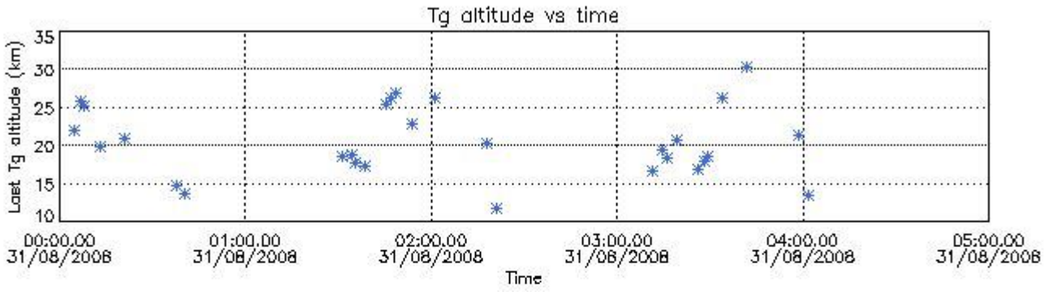


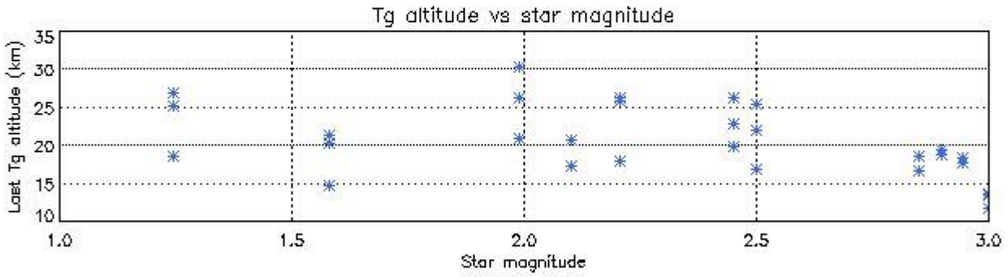


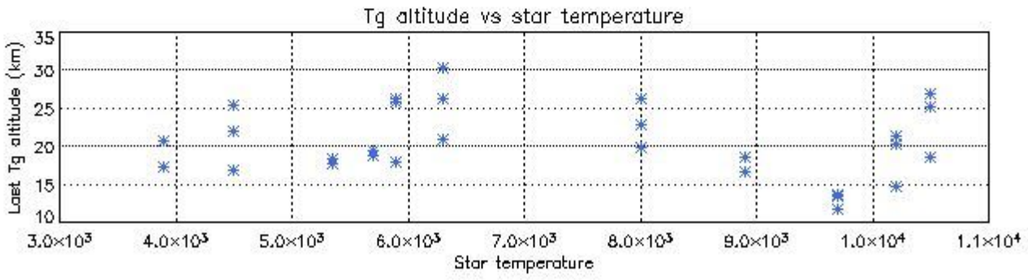


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

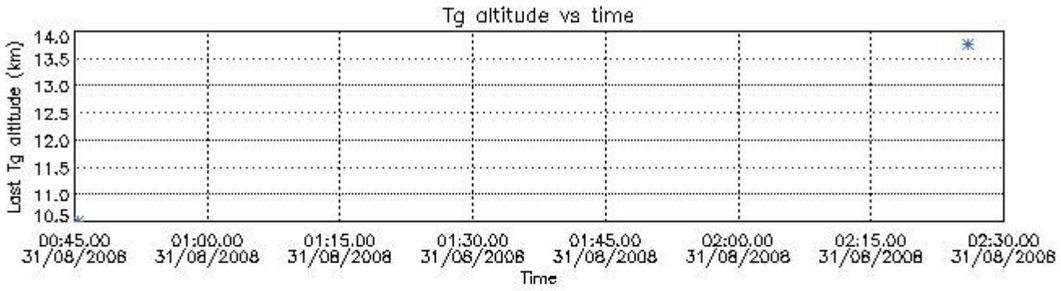


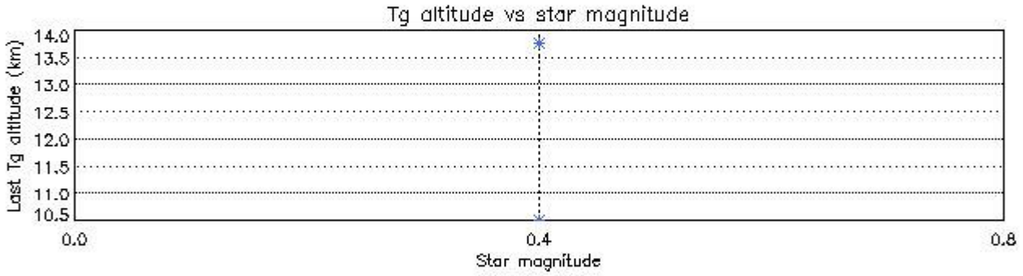


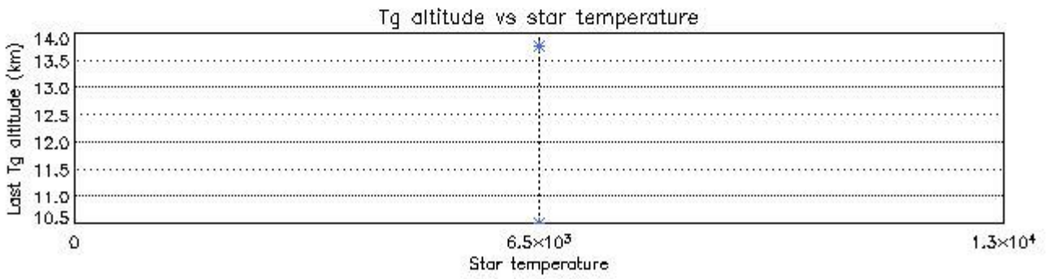


6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost





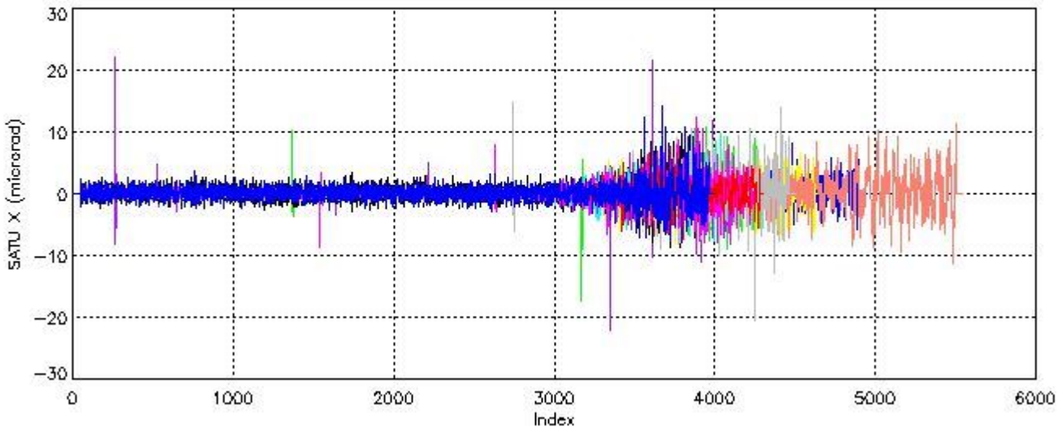


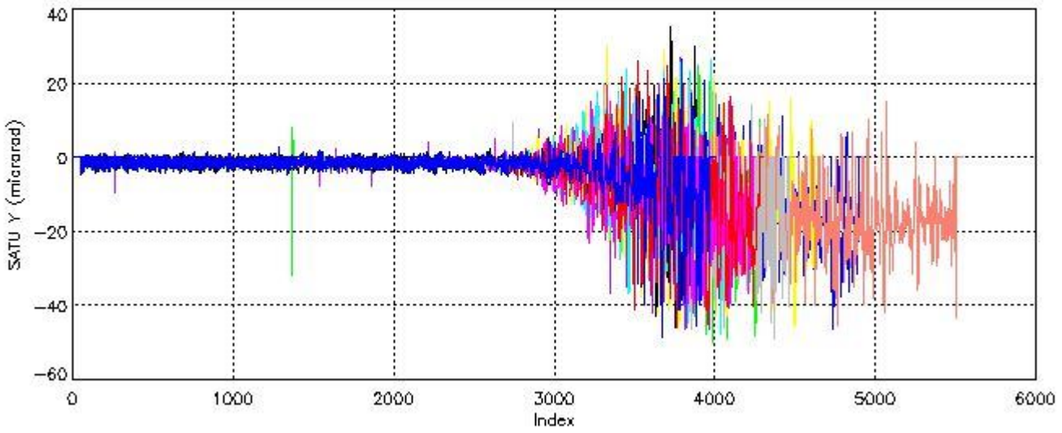
7. Star Acquisition and Tracking Unit (SATU)

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:	0.10892	-1.3804	0.095299	-1.3205
St. deviation:	0.40630	0.58448	0.59196	0.74145
Maximum:	22.000	1.5000	3.3000	2.5000
Minimum:	-8.2000	-9.4000	-2.9000	-4.6000

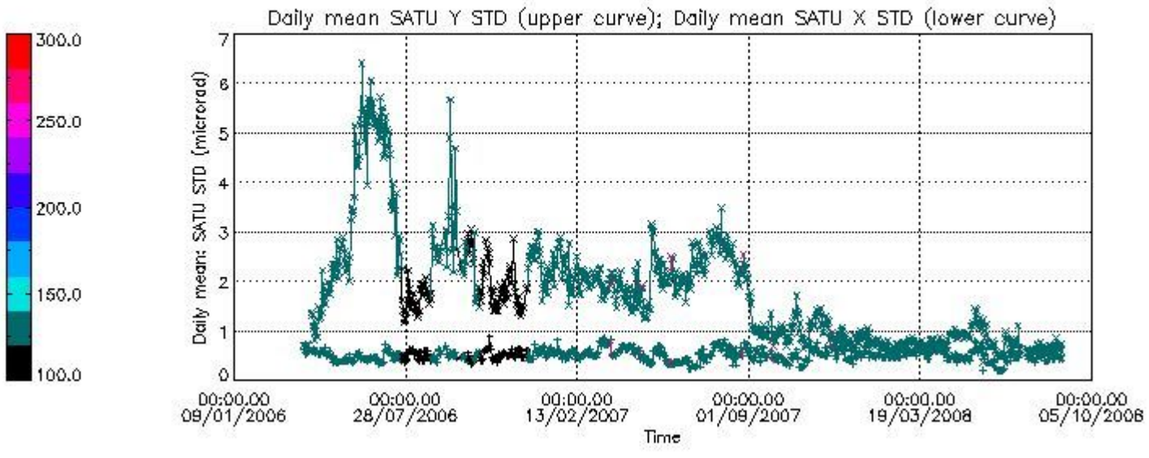
Number of data:	10950.	10950.	24400.	24400.

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.

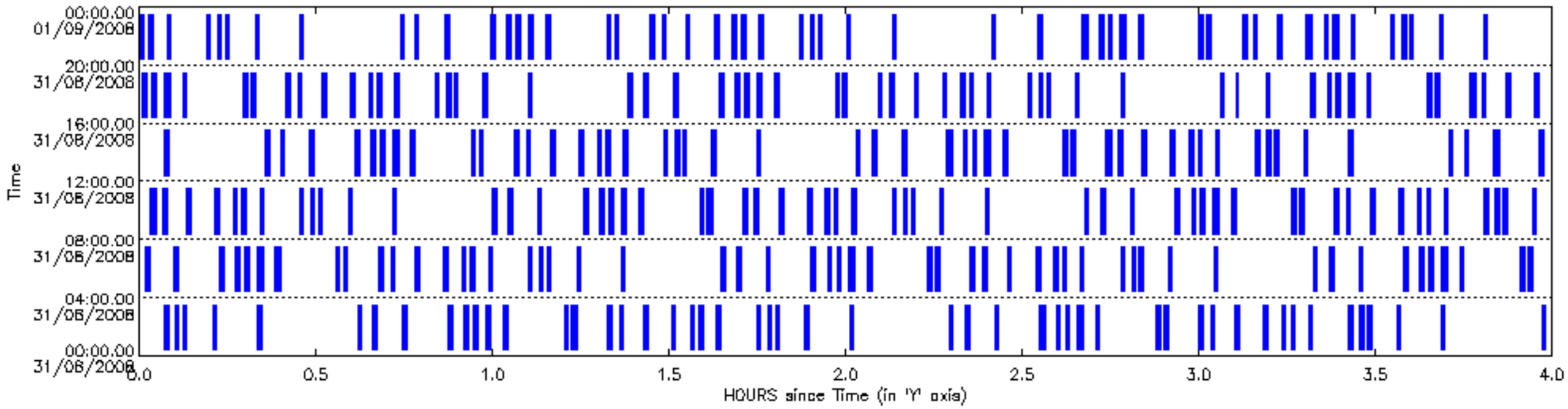
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

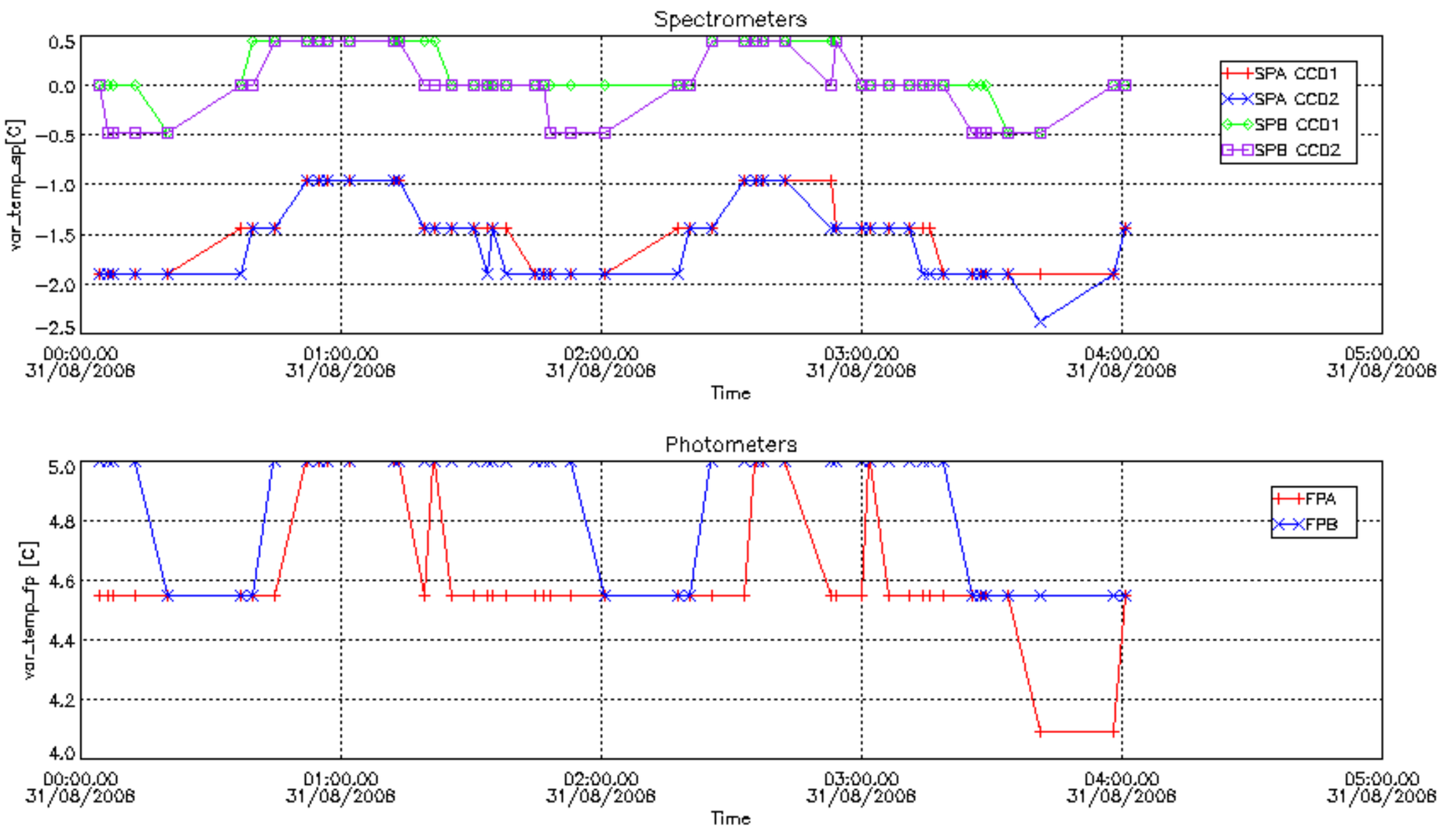


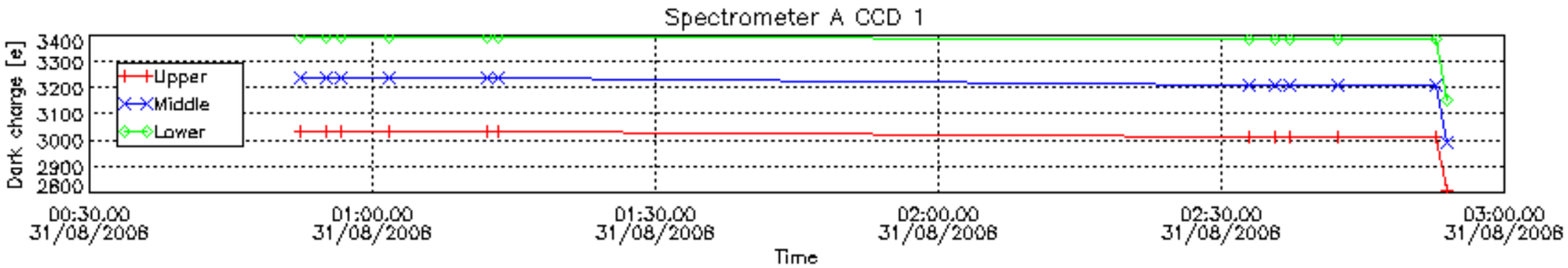
8. Auxiliary Data Files used for the production reported in section 2.4

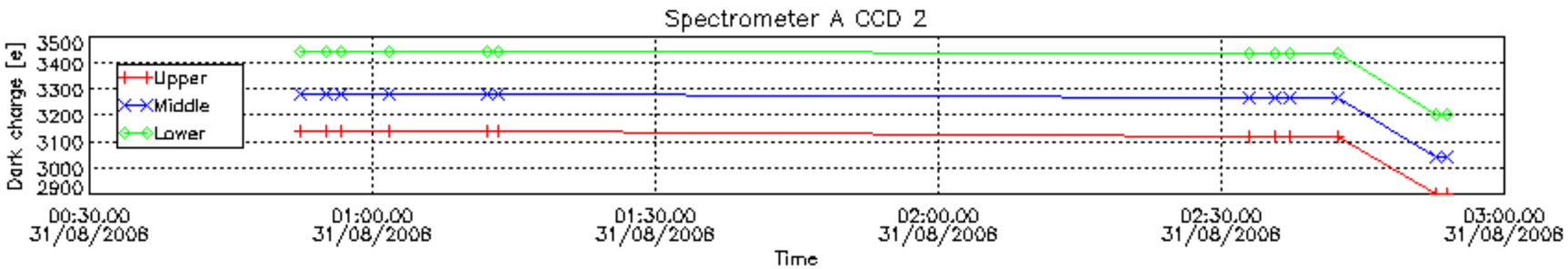
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

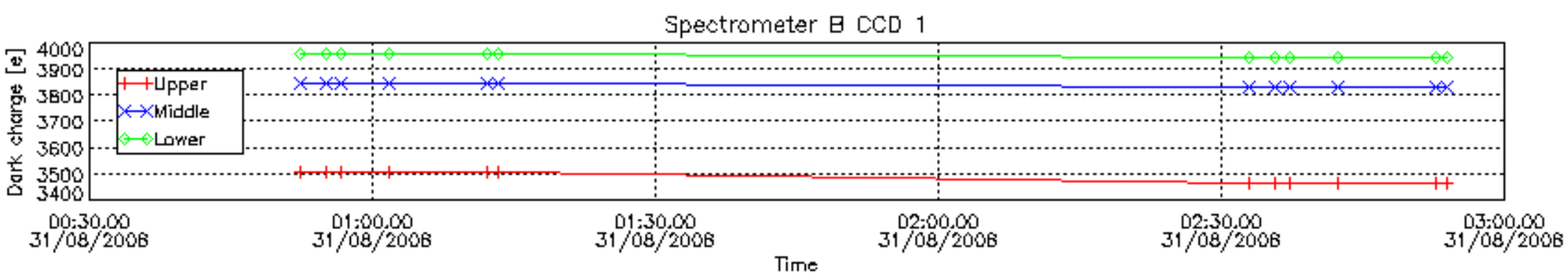
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	31-AUG-2008 00:04:17
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080827_075127_20080825_000000_20100101_000000	1	31-AUG-2008 00:04:17
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	31-AUG-2008 00:04:17
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	31-AUG-2008 00:04:17
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	31-AUG-2008 00:04:17
ECMWF_FILE	AUX_ECF_AXNECM20080830_072114_20080830_210000_20080831_090000	1	31-AUG-2008 00:04:17
ECMWF_FILE	AUX_ECF_AXNECM20080830_190111_20080831_030000_20080831_150000	48	31-AUG-2008 03:58:13
OPTIONAL_ECMWF_FILE	MISSING	1	31-AUG-2008 00:04:17
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20080830_212455_000057382071_00372_33993_6262.N1	1	31-AUG-2008 00:04:17
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20080830_230552_000057382071_00373_33994_6263.N1	9	31-AUG-2008 00:52:18
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20080831_004649_000044632071_00374_33995_6264.N1	27	31-AUG-2008 02:17:37
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20080831_020631_000054192071_00375_33996_6265.N1	48	31-AUG-2008 03:58:13

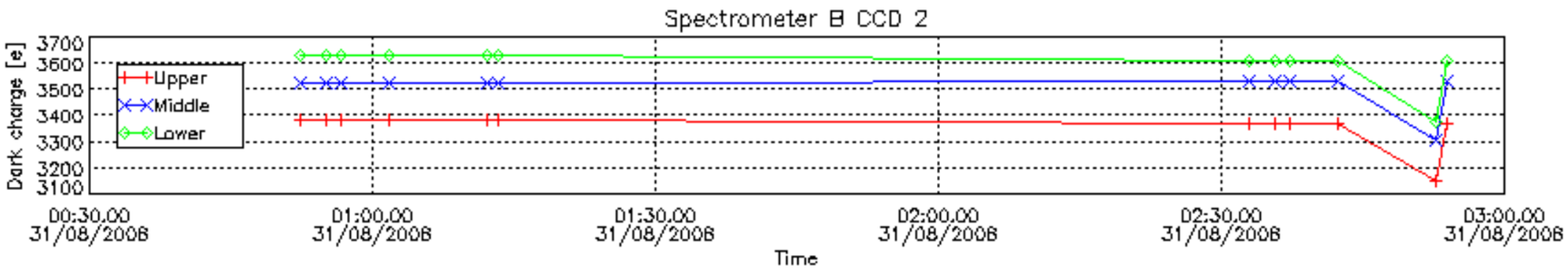

00:00.00
01/09/2008
20:00.00
31/08/2008
16:00.00
31/08/2008
12:00.00
31/08/2008
08:00.00
31/08/2008
04:00.00
31/08/2008
00:00.00
31/08/2008
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

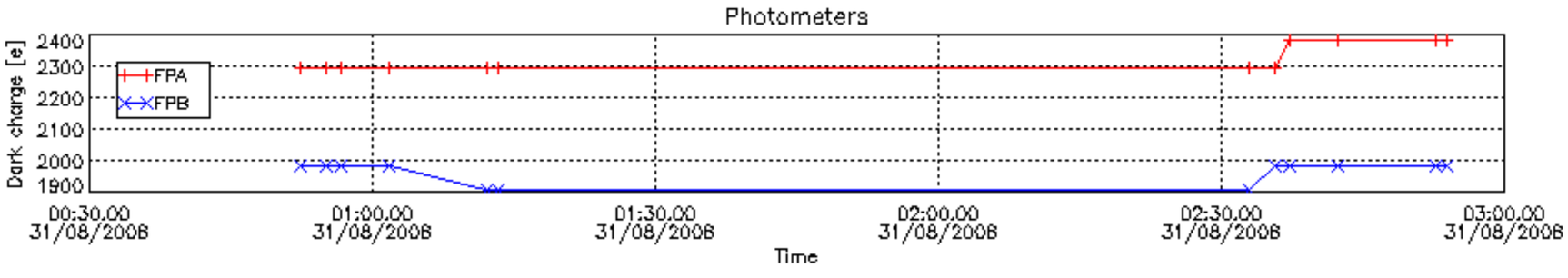

Spectrometers
var_temp_sp[C]
0.5
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
31/08/2006
01:00.00
31/08/2006
02:00.00
31/08/2006
03:00.00
31/08/2006
04:00.00
31/08/2006
05:00.00
31/08/2006
Time
Photometers
var_temp_fp [C]
5.0
4.8
4.6
4.4
4.2
4.0
FPA
FPB
00:00.00
31/08/2006
01:00.00
31/08/2006
02:00.00
31/08/2006
03:00.00
31/08/2006
04:00.00
31/08/2006
05:00.00
31/08/2006
Time

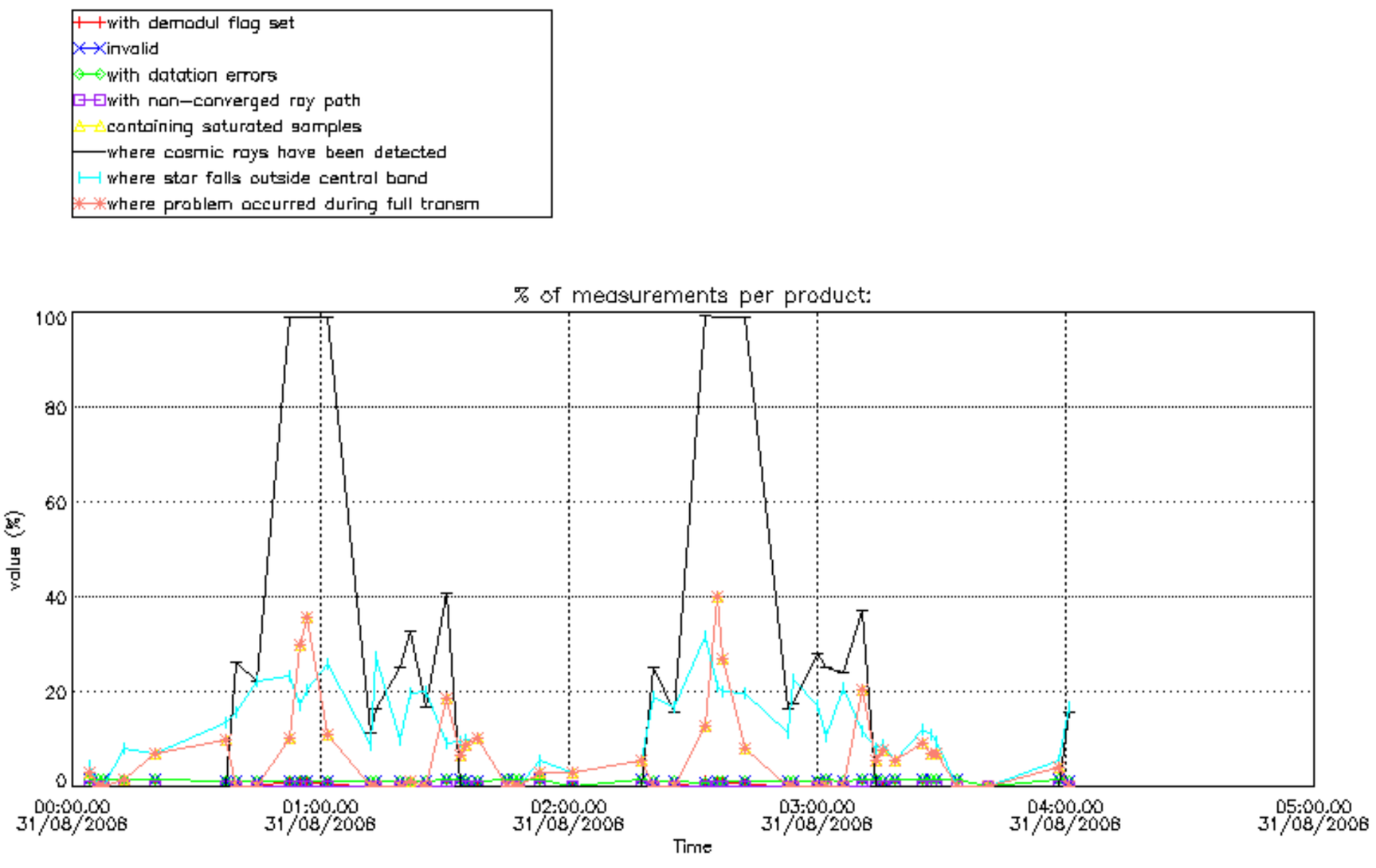

Spectrometer A CCD 1
Dark charge [e]
3400
3300
3200
3100
3000
2900
2800
Upper
Middle
Lower
00:30.00
31/08/2006
01:00.00
31/08/2006
01:30.00
31/08/2006
02:00.00
31/08/2006
02:30.00
31/08/2006
03:00.00
31/08/2006
Time

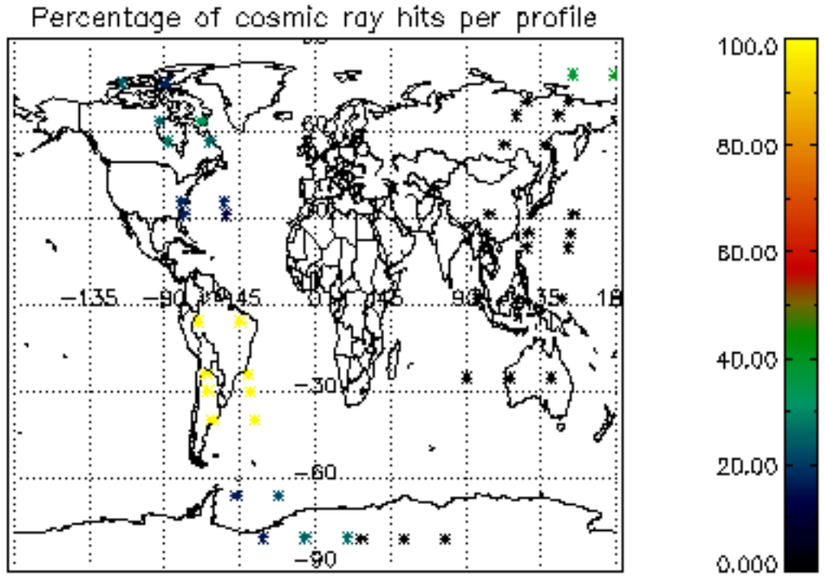

Spectrometer A CCD 2
Dark charge [e]
3500
3400
3300
3200
3100
3000
2900
Upper
Middle
Lower
00:30.00
31/08/2006
01:00.00
31/08/2006
01:30.00
31/08/2006
02:00.00
31/08/2006
02:30.00
31/08/2006
03:00.00
31/08/2006
Time

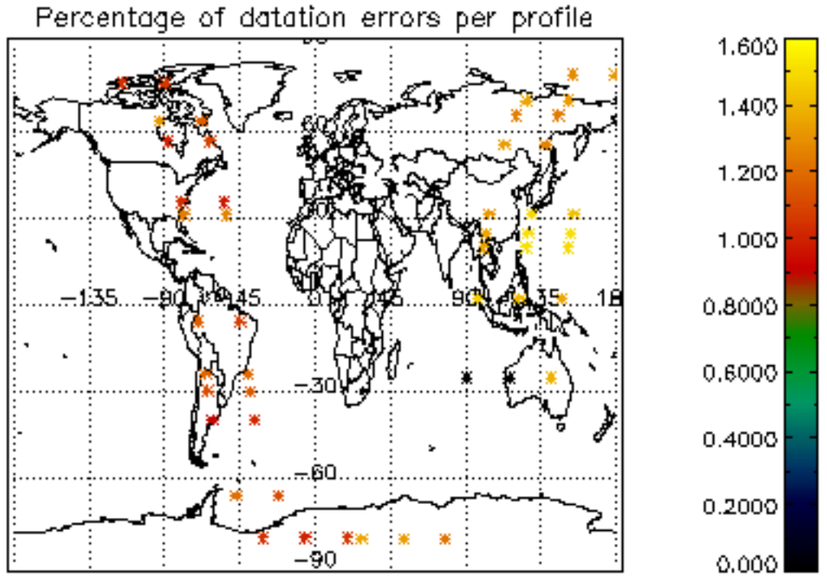

Spectrometer B CCD 1
Dark charge [e]
4000
3900
3800
3700
3600
3500
3400
Upper
Middle
Lower
00:30.00
31/08/2006
01:00.00
31/08/2006
01:30.00
31/08/2006
02:00.00
31/08/2006
02:30.00
31/08/2006
03:00.00
31/08/2006
Time

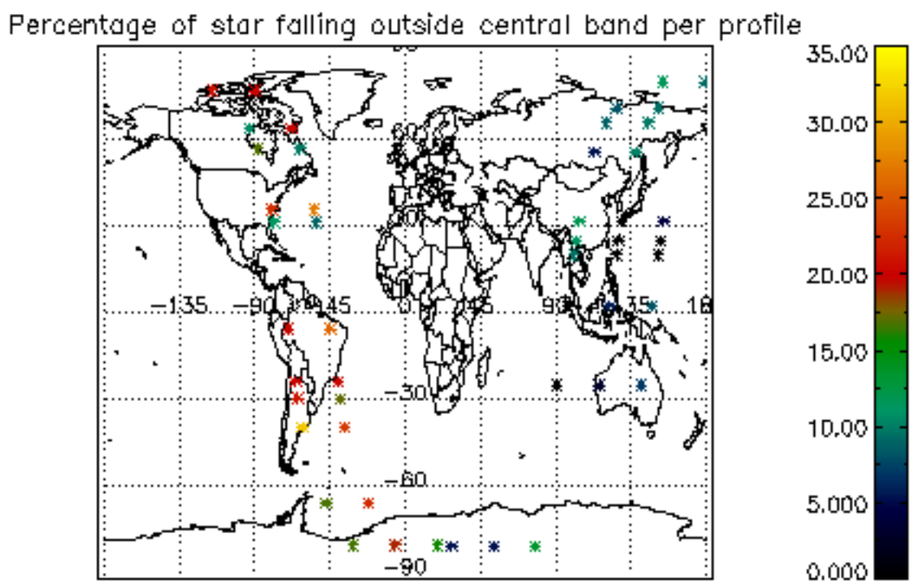

Spectrometer B CCD 2
Dark charge [e]
3700
3600
3500
3400
3300
3200
3100
Upper
Middle
Lower
00:30.00
31/08/2006
01:00.00
31/08/2006
01:30.00
31/08/2006
02:00.00
31/08/2006
02:30.00
31/08/2006
03:00.00
31/08/2006
Time

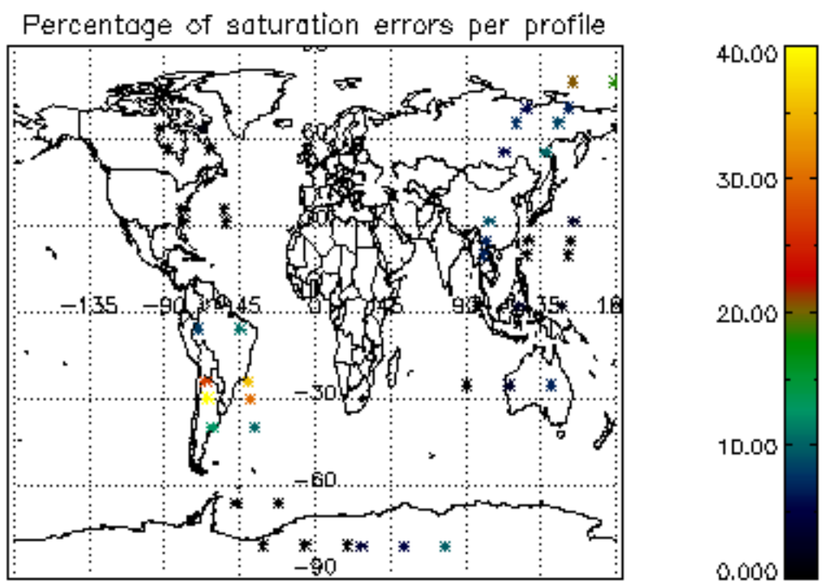

Photometers
Dark charge [e]
2400
2300
2200
2100
2000
1900
FPA
FPB
00:30.00
31/08/2006
01:00.00
31/08/2006
01:30.00
31/08/2006
02:00.00
31/08/2006
02:30.00
31/08/2006
03:00.00
31/08/2006
Time


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:
value (%)
100
80
60
40
20
0
00:00.00 31/08/2006
01:00.00 31/08/2006
02:00.00 31/08/2006
03:00.00 31/08/2006
04:00.00 31/08/2006
05:00.00 31/08/2006
Time

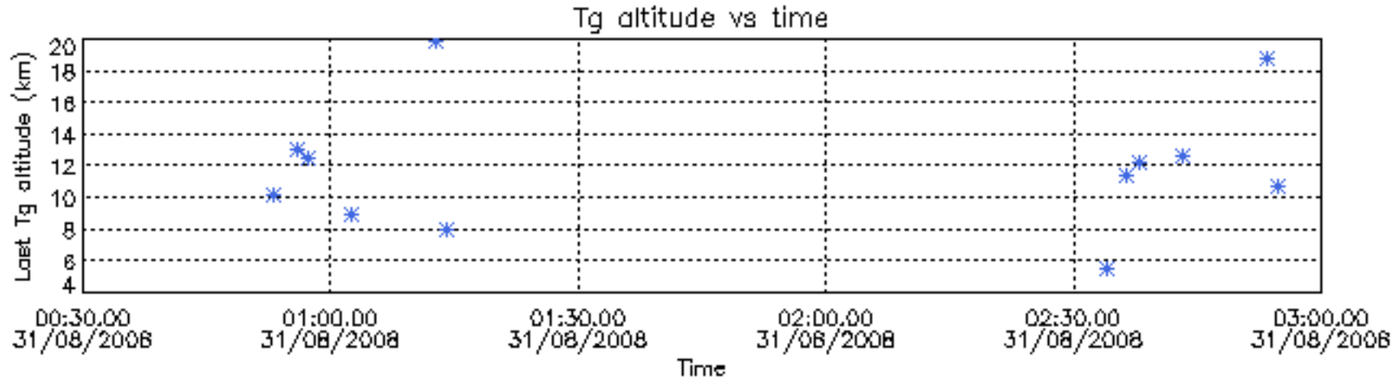

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−30
−60
−90

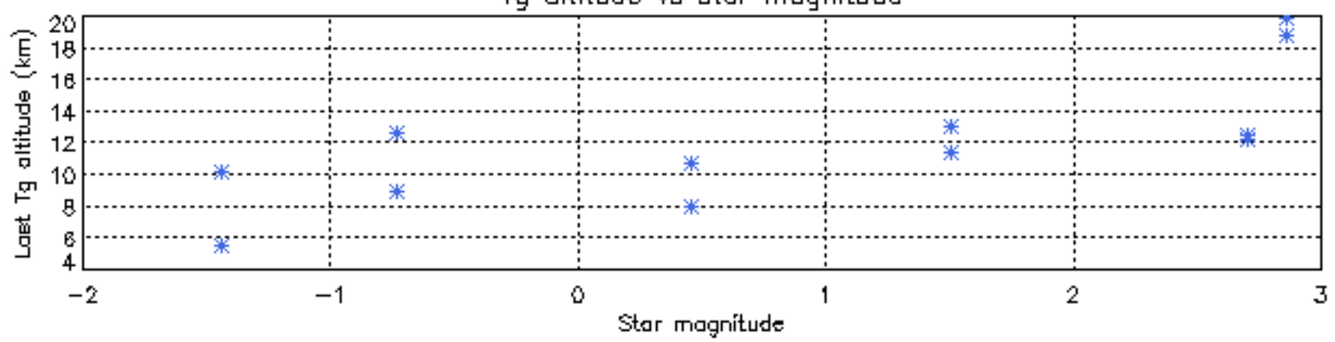

Percentage of datation errors per profile
1.600
1.400
1.200
1.000
0.8000
0.6000
0.4000
0.2000
0.000
−135
−90
−30
−60
−90

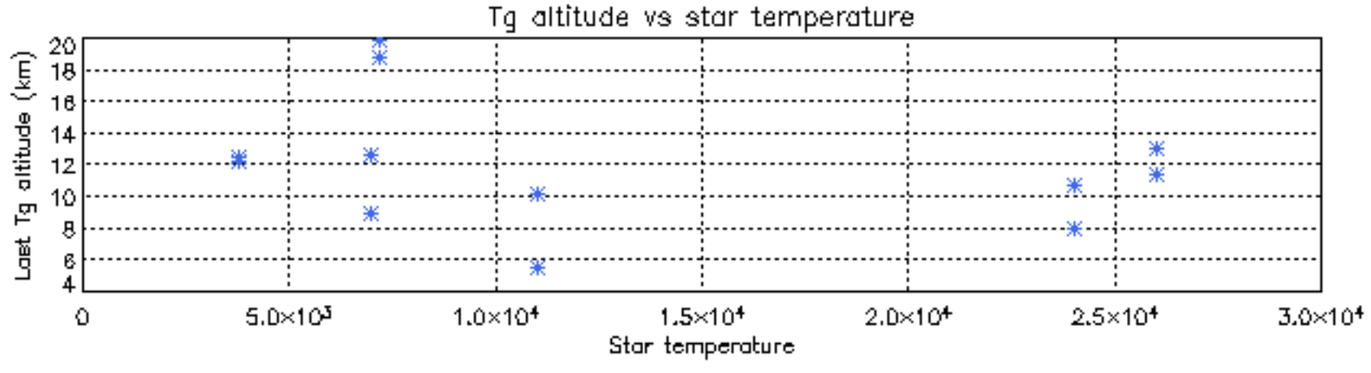

Percentage of star falling outside central band per profile
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90


Percentage of saturation errors per profile
40.00
30.00
20.00
10.00
0.000
−135
−90
−30
−60
−90

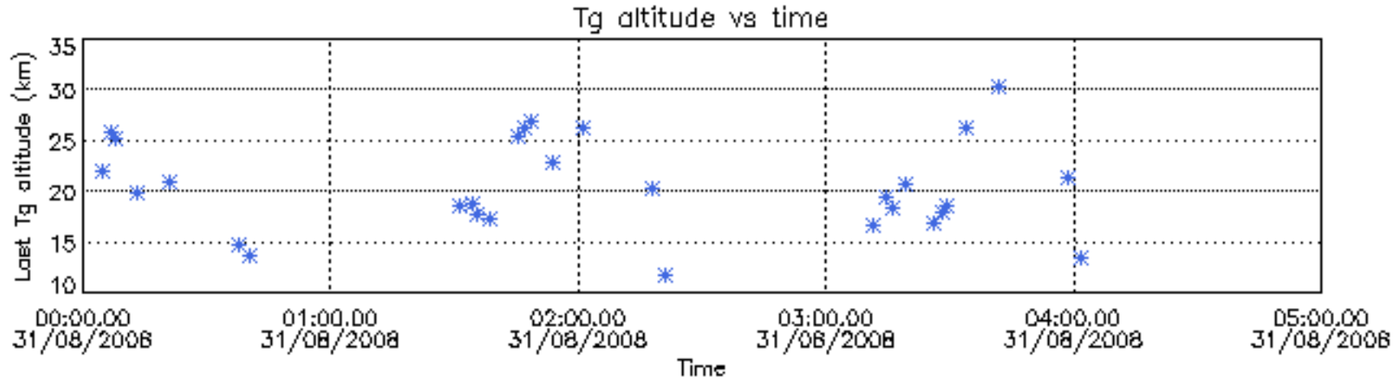
Tangent altitude at which the star is lost

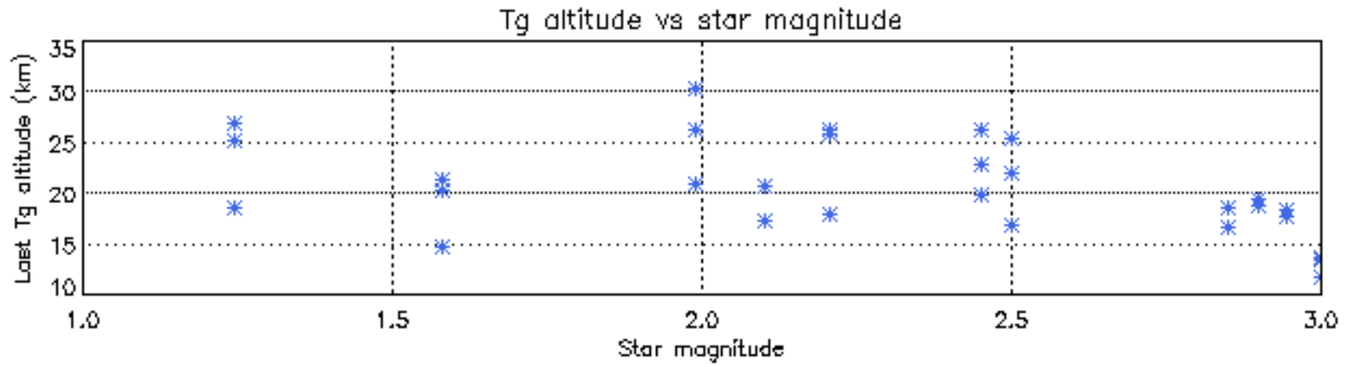


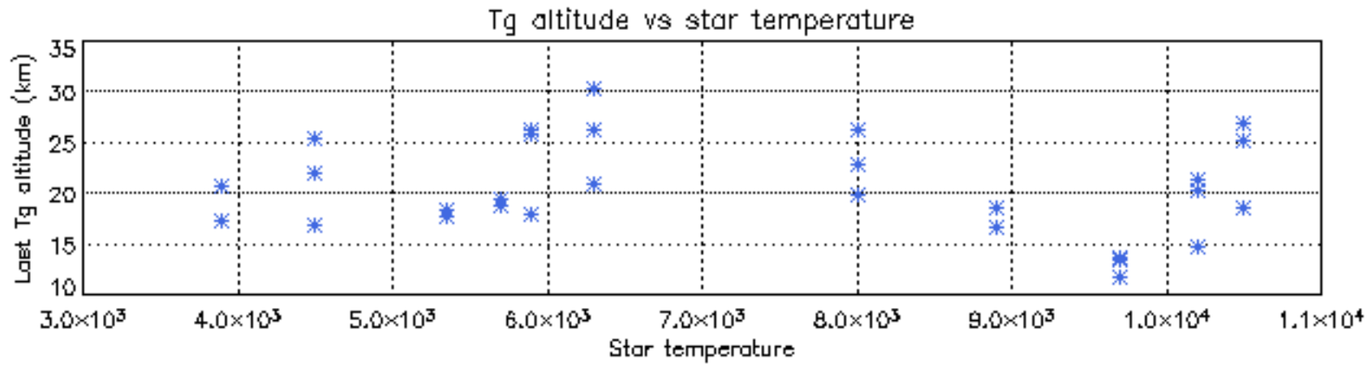




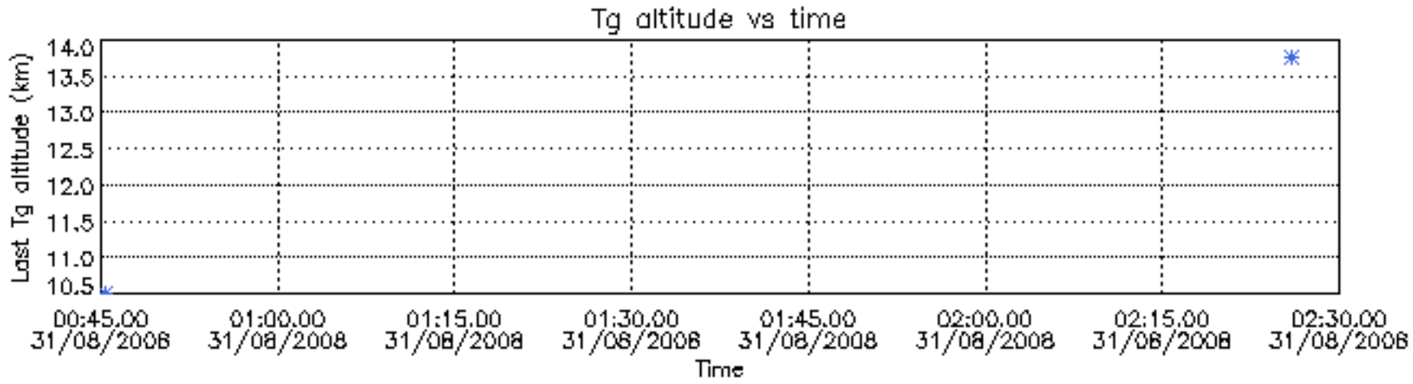
Tangent altitude at which the star is lost

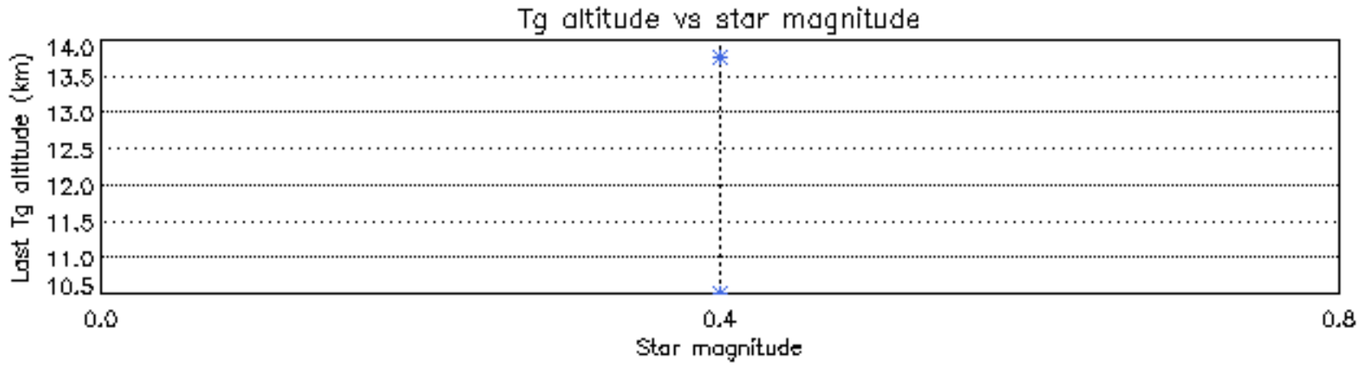


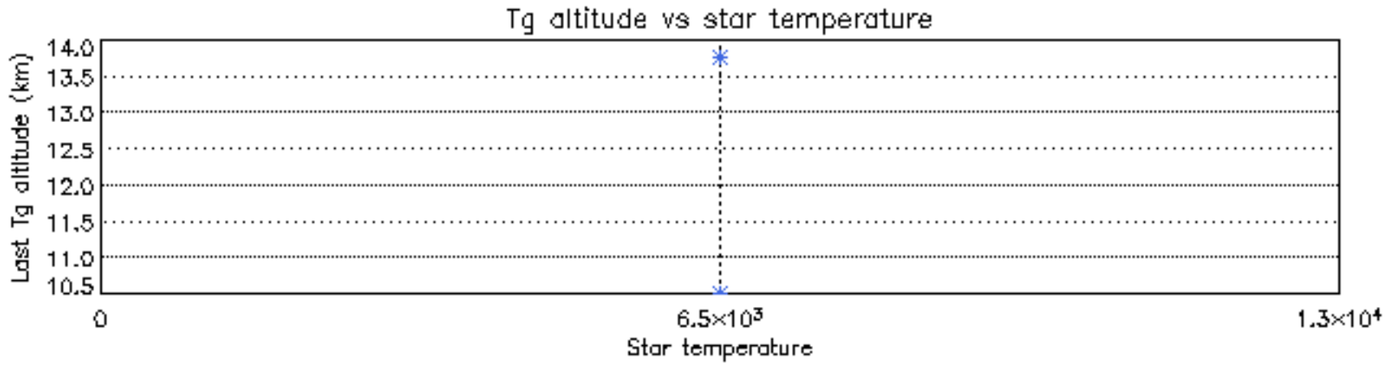


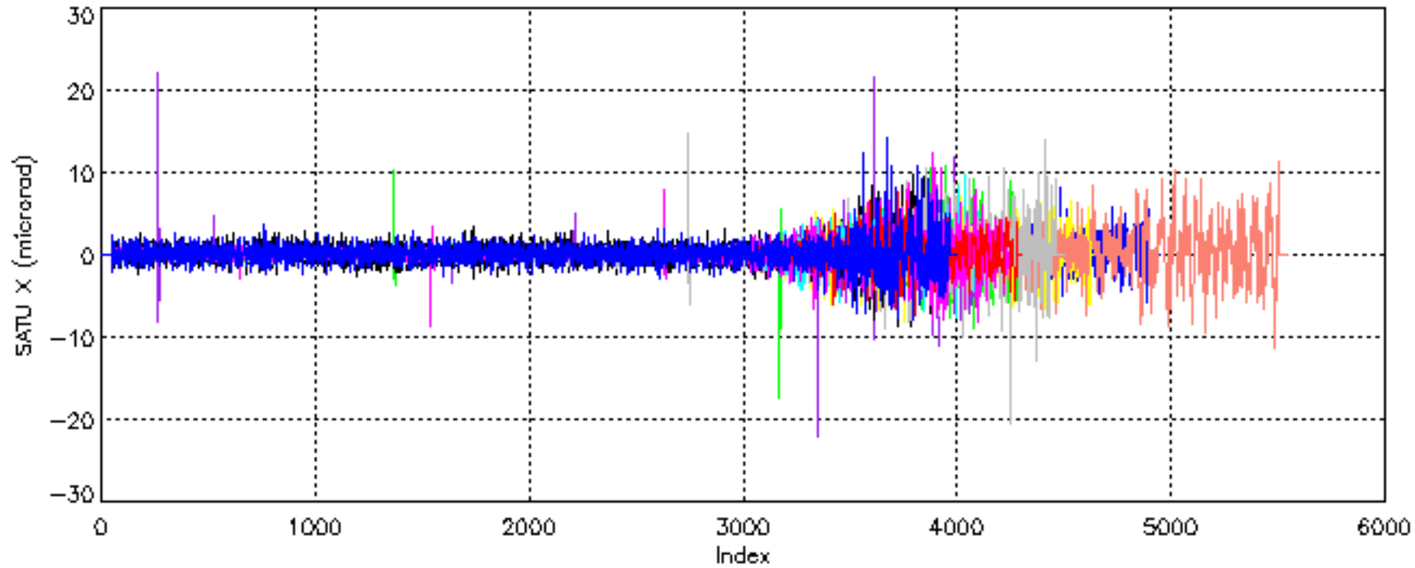


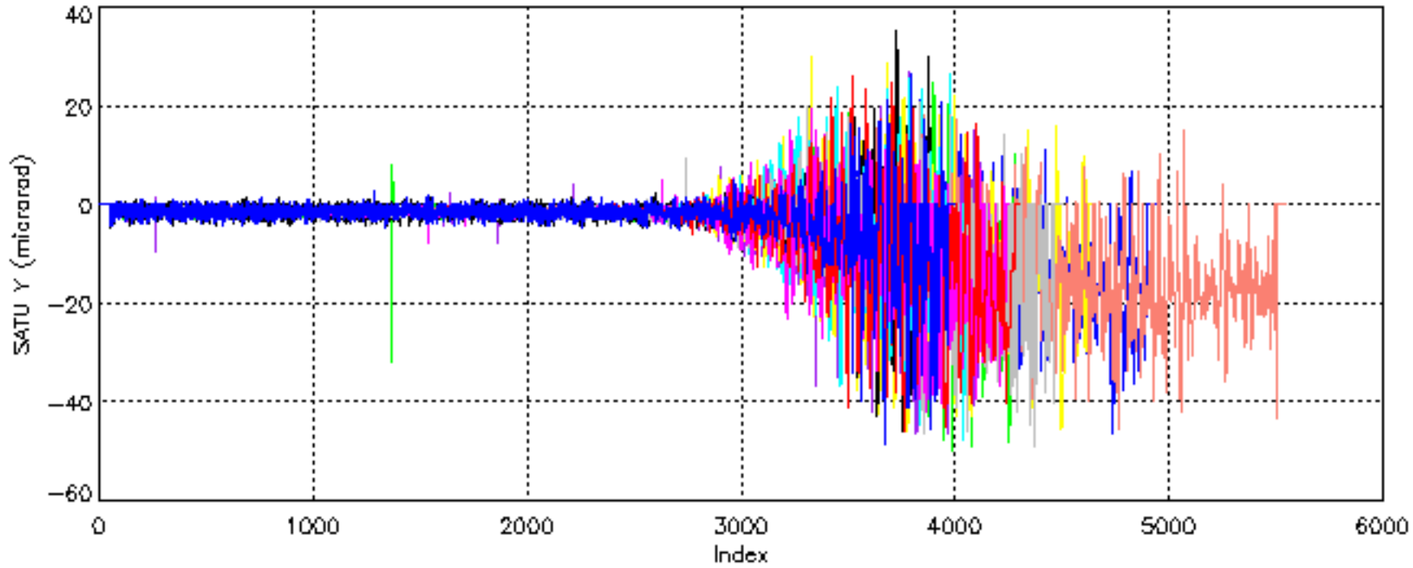
Tangent altitude at which the star is lost

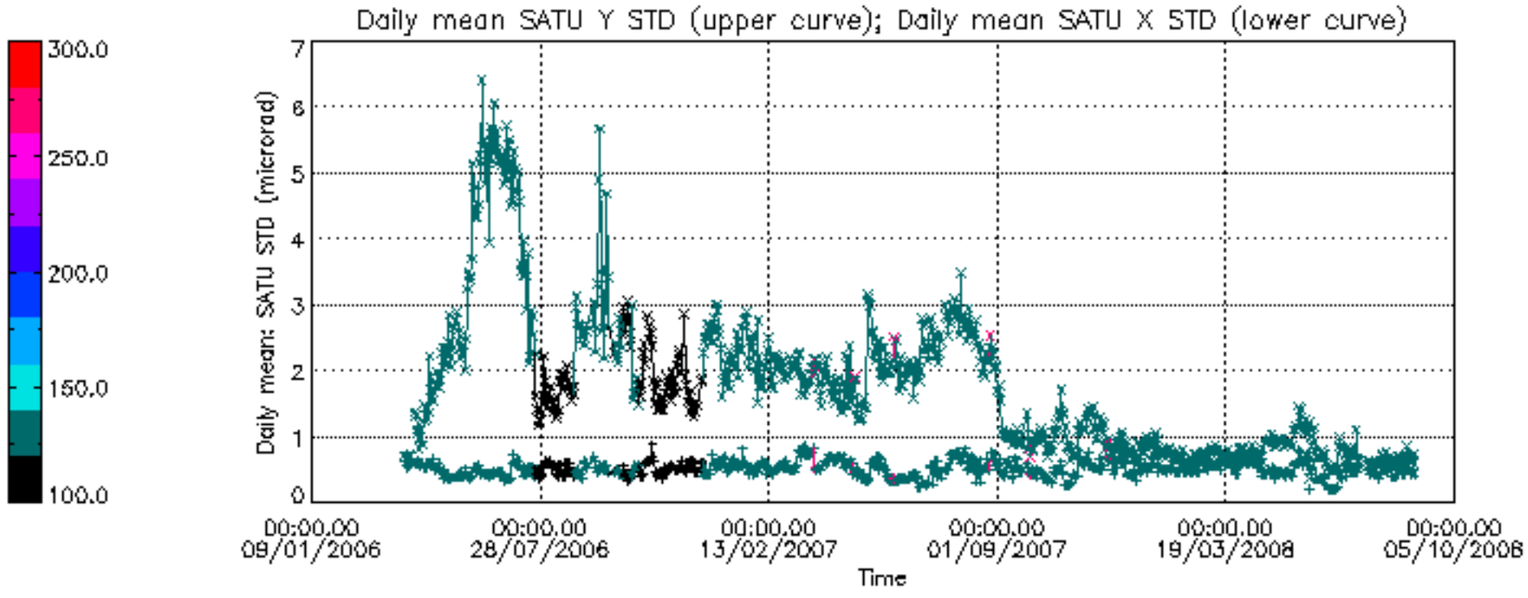







30
20
10
0
−10
−20
−30
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
Index


40
20
0
−20
−40
−60
S4TU 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 28/07/2006
00:00.00 13/02/2007
00:00.00 01/09/2007
00:00.00 19/03/2008
00:00.00 05/10/2008
Time

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20080801_013214_000043372070_00446_33566_6178.N1
1; -861.2; 01-AUG-2008 01:32:14; Dark ; 47.0; 7; 19Bet Ori ; 0.10; 14000;occ; 94; 0;33566
2; -730.5; 01-AUG-2008 01:34:25; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;33566
3; -299.3; 01-AUG-2008 01:41:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33566
4; -19.6; 01-AUG-2008 01:46:16; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;33566
5; 310.1; 01-AUG-2008 01:51:46; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33567
6; 720.4; 01-AUG-2008 01:58:36; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33567
7; 921.8; 01-AUG-2008 02:01:57; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;33567
8; 1110.0; 01-AUG-2008 02:05:05; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;33567
9; 2059.2; 01-AUG-2008 02:20:55; Bright; 38.0; 11; 53Alp Aql ; 0.76; 8000;occ; 76; 0;33567
10; 2145.3; 01-AUG-2008 02:22:21; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;33567
11; 2570.2; 01-AUG-2008 02:29:26; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;33567
12; 2694.1; 01-AUG-2008 02:31:30; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33567
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   5; 2083.1; 25-AUG-2008 16:32:03; Bright;  41.5;   61;  8Eps Peg  ; 2.10;  3900;occ;  83;   0;33919
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   9; 2678.3; 31-AUG-2008 18:34:03; Bright;  37.0;   19; 50Alp Cyg  ; 1.25; 10500;occ;  74;   0;34006
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  11; 3434.7; 31-AUG-2008 18:46:40; Bright;  37.5;   49;  1Alp UMi  ; 1.99;  6300;occ;  75;   0;34006
  12; 4452.5; 31-AUG-2008 19:03:37; Bright;  38.0;   24; 66Alp Gem  ; 1.58; 10200;occ;  76;   0;34006
  13; 4612.3; 31-AUG-2008 19:06:17; Dark  ;  27.0;  170; 27Eps Gem  ; 3.00;  9700;occ;  54;   0;34006
  14; 4915.1; 31-AUG-2008 19:11:20; Dark  ;  43.5;    8; 10Alp CMi  ; 0.40;  6500;occ;  87;   0;34006
  15; 5374.8; 31-AUG-2008 19:19:00; Dark  ;  52.0;    1;  9Alp CMa  ;-1.44; 11000;occ; 104;   0;34006
  16; 5540.1; 31-AUG-2008 19:21:45; Dark  ;  42.5;   23; 21Eps CMa  ; 1.50; 26000;occ;  85;   0;34006
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  19; 5945.0; 31-AUG-2008 19:28:30; Dark  ;  43.5;    2;   Alp Car  ;-0.74;  7000;occ;  87;   0;34006
  20; 6564.0; 31-AUG-2008 19:38:49; Dark  ;  40.0;  143;   Alp Hyi  ; 2.86;  7200;occ;  80;   0;34006
  21; 6641.0; 31-AUG-2008 19:40:06; Dark  ;  53.0;    9;   Alp Eri  ; 0.45; 24000;occ; 106;   0;34006
  22; 6998.6; 31-AUG-2008 19:46:04; Dark  ;  43.5;   84;   Alp Phe  ; 2.40;  4500;occ;  87;   0;34006
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   4; 1895.8; 31-AUG-2008 18:21:01; Bright;  39.5;  162; 34Alp Aqr  ; 2.94;  5350;occ;  79;   0;34006
   5; 2075.6; 31-AUG-2008 18:24:01; Bright;  38.5;   61;  8Eps Peg  ; 2.10;  3900;occ;  77;   0;34006
   6; 2487.9; 31-AUG-2008 18:30:53; Bright;  36.0;   92; 53Eps Cyg  ; 2.50;  4500;occ;  72;   0;34006
   7; 2600.5; 31-AUG-2008 18:32:45; Bright;  36.0;   66; 37Gam Cyg  ; 2.21;  5900;occ;  72;   0;34006
   8; 2678.3; 31-AUG-2008 18:34:03; Bright;  37.0;   19; 50Alp Cyg  ; 1.25; 10500;occ;  74;   0;34006
   9; 2975.7; 31-AUG-2008 18:39:01; Bright;  36.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  73;   0;34006
  10; 3434.7; 31-AUG-2008 18:46:40; Bright;  37.5;   49;  1Alp UMi  ; 1.99;  6300;occ;  75;   0;34006
  11; 4452.5; 31-AUG-2008 19:03:37; Bright;   1.0;   24; 66Alp Gem  ; 1.58; 10200;occ;   2;   0;34006
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   8;  -90.9; 31-AUG-2008 19:28:30; Dark  ;  43.5;    2;   Alp Car  ;-0.74;  7000;occ;  87;   0;34006
   9;  528.1; 31-AUG-2008 19:38:49; Dark  ;  40.0;  143;   Alp Hyi  ; 2.86;  7200;occ;  80;   0;34007
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  11;  962.6; 31-AUG-2008 19:46:04; Dark  ;  43.5;   84;   Alp Phe  ; 2.40;  4500;occ;  87;   0;34007
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