GOMOS Daily Report 21-OCT-2007

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.

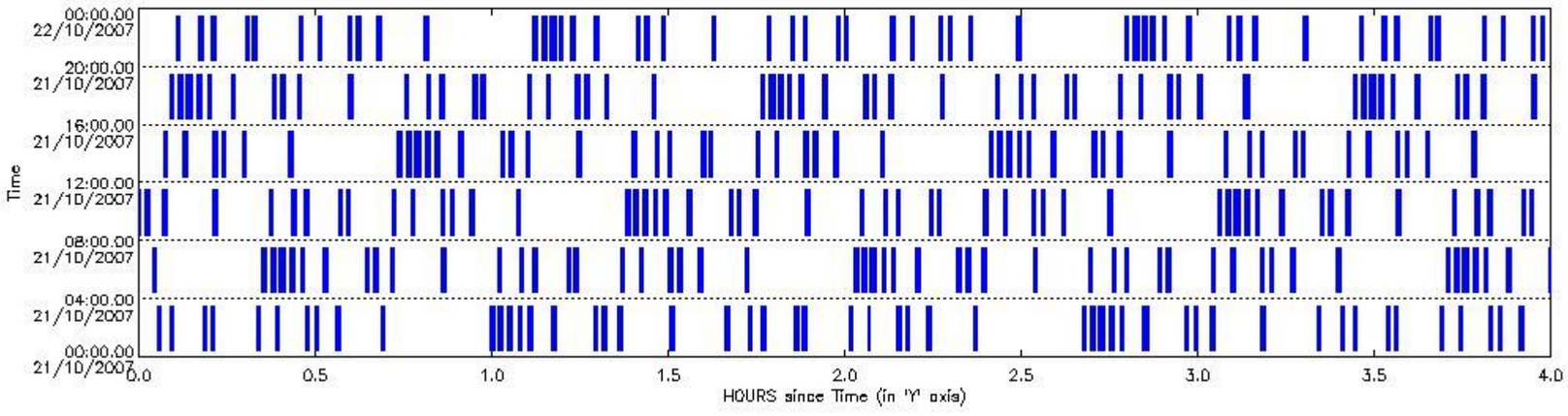
Item	Value
Time of report generation	23OCT2007 05:35:47
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (21OCT2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (22OCT2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

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

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

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



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

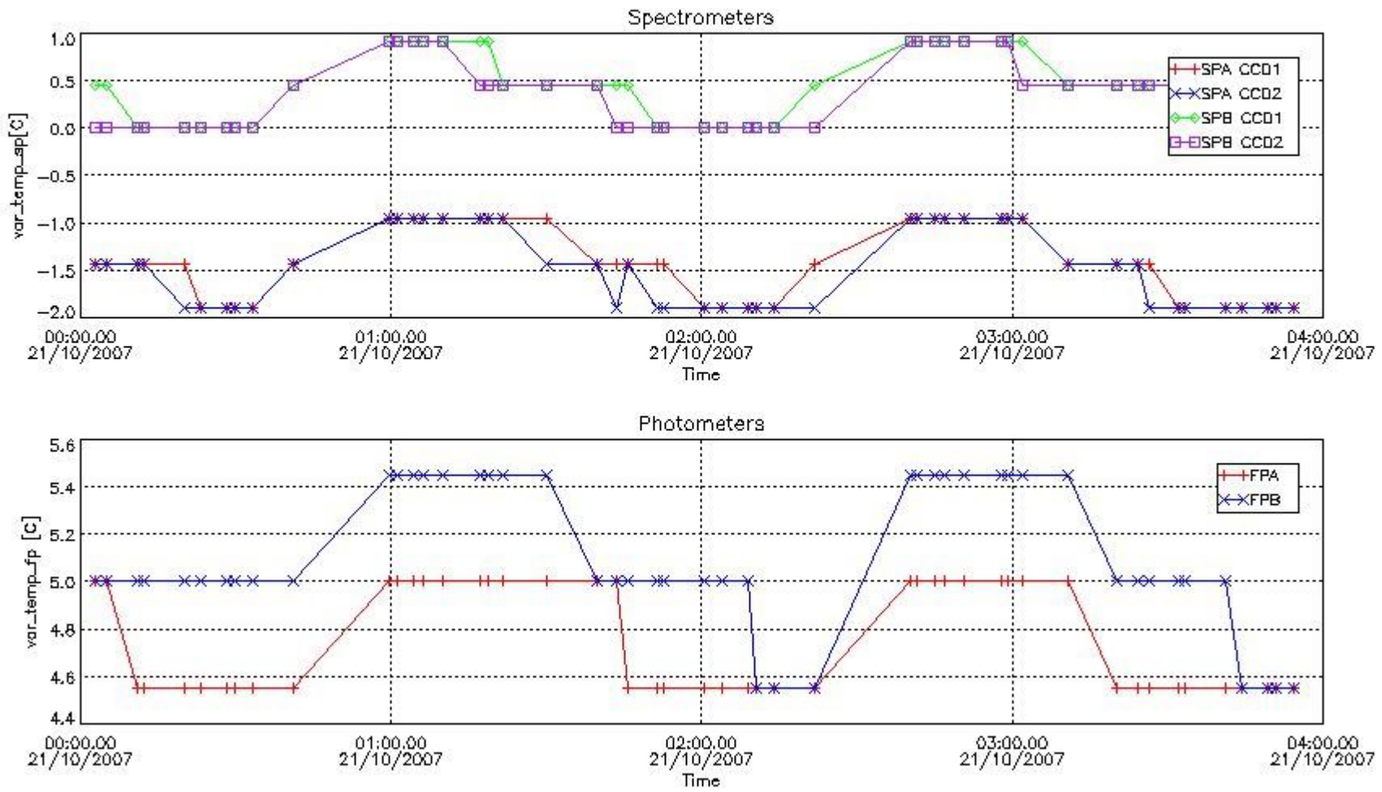
No missing products.

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20071021_000258_000000362062_00374_29486_3342.N1	21-OCT-2007 00:02:58	Bright	36.000	58	21Alp And	2.0730	11000.	72	29486	No
2	GOM_TRA_1PNPDE20071021_000510_000000372062_00374_29486_3343.N1	21-OCT-2007 00:05:10	Bright	36.500	53	43Bet And	2.0480	3300.0	73	29486	No
3	GOM_TRA_1PNPDE20071021_001050_000000342062_00374_29486_3344.N1	21-OCT-2007 00:10:50	Bright	33.500	68	18Alp Cas	2.2250	4500.0	67	29486	No
4	GOM_TRA_1PNPDE20071021_001209_000000362062_00374_29486_3345.N1	21-OCT-2007 00:12:09	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	29486	No
5	GOM_TRA_1PNPDE20071021_001959_000000362062_00374_29486_3346.N1	21-OCT-2007 00:19:59	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29486	No
6	GOM_TRA_1PNPDE20071021_002315_000000262062_00374_29486_3347.N1	21-OCT-2007 00:23:15	Bright	26.000	60	7Bet UMi	2.0810	3950.0	52	29486	No
7	GOM_TRA_1PNPDE20071021_002814_000000352062_00374_29486_3348.N1	21-OCT-2007 00:28:14	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	29486	No
8	GOM_TRA_1PNPDE20071021_002948_000000372062_00374_29486_3349.N1	21-OCT-2007 00:29:48	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	29486	No
9	GOM_TRA_1PNPDE20071021_003316_000000532062_00374_29486_3350.N1	21-OCT-2007 00:33:16	Bright	53.000	174	52Psi UMa	3.0040	4400.0	106	29486	No
10	GOM_TRA_1PNPDE20071021_004108_000000392062_00374_29486_3351.N1	21-OCT-2007 00:41:08	Bright	39.000	51	41Gam1Leo	2.0100	4500.0	78	29486	No
11	GOM_TRA_1PNPDE20071021_005942_000000412062_00374_29486_3474.N1	21-OCT-2007 00:59:42	Dark	41.000	113	Mu Vel	2.6920	5000.0	82	29486	No
12	GOM_TRA_1PNPDE20071021_010104_000000412062_00374_29486_3475.N1	21-OCT-2007 01:01:04	Dark	40.500	65	Lam Vel	2.2040	4400.0	81	29486	No

13	GOM_TRA_1PNPDE20071021_010424_000000432062_00375_29487_3476.N1	21-OCT-2007 01:04:24	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	29487	No
14	GOM_TRA_1PNPDE20071021_010609_000000382062_00375_29487_3477.N1	21-OCT-2007 01:06:09	Dark	38.000	29	Bet Car	1.6720	10200.	76	29487	No
15	GOM_TRA_1PNPDE20071021_011003_000000572062_00375_29487_3478.N1	21-OCT-2007 01:10:03	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	29487	No
16	GOM_TRA_1PNPDE20071021_011712_000000382062_00375_29487_3479.N1	21-OCT-2007 01:17:12	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	29487	No
17	GOM_TRA_1PNPDE20071021_011838_000000432062_00375_29487_3480.N1	21-OCT-2007 01:18:38	Dark	42.500	9	Alp Eri	0.45300	24000.	85	29487	No
18	GOM_TRA_1PNPDE20071021_012127_000000452062_00375_29487_3481.N1	21-OCT-2007 01:21:27	Straylight	44.500	157	The1Eri	2.9060	9300.0	89	29487	No
19	GOM_TRA_1PNPDE20071021_013007_000000442062_00375_29487_3482.N1	21-OCT-2007 01:30:07	Straylight	43.500	52	16Bet Cet	2.0370	4500.0	87	29487	No
20	GOM_TRA_1PNPDE20071021_013939_000000372062_00375_29487_3483.N1	21-OCT-2007 01:39:39	Bright	36.500	140	88Gam Peg	2.8340	26000.	73	29487	No
21	GOM_TRA_1PNPDE20071021_014334_000000362062_00375_29487_3484.N1	21-OCT-2007 01:43:34	Bright	35.500	58	21Alp And	2.0730	11000.	71	29487	No
22	GOM_TRA_1PNPDE20071021_014545_000000402062_00375_29487_3485.N1	21-OCT-2007 01:45:45	Bright	39.500	53	43Bet And	2.0480	3300.0	79	29487	No
23	GOM_TRA_1PNPDE20071021_015125_000000382062_00375_29487_3486.N1	21-OCT-2007 01:51:25	Bright	37.500	68	18Alp Cas	2.2250	4500.0	75	29487	No
24	GOM_TRA_1PNPDE20071021_015244_000000372062_00375_29487_3487.N1	21-OCT-2007 01:52:44	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	29487	No
25	GOM_TRA_1PNPDE20071021_020035_000000332062_00375_29487_3488.N1	21-OCT-2007 02:00:35	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	29487	No
26	GOM_TRA_1PNPDE20071021_020351_000000262062_00375_29487_3637.N1	21-OCT-2007 02:03:51	Bright	26.000	60	7Bet UMi	2.0810	3950.0	52	29487	No
27	GOM_TRA_1PNPDE20071021_020850_000000382062_00375_29487_3638.N1	21-OCT-2007 02:08:50	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	29487	No
28	GOM_TRA_1PNPDE20071021_021024_000000352062_00375_29487_3639.N1	21-OCT-2007 02:10:24	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	29487	No
29	GOM_TRA_1PNPDE20071021_021352_000000532062_00375_29487_3640.N1	21-OCT-2007 02:13:52	Bright	53.000	174	52Psi UMa	3.0040	4400.0	106	29487	No
30	GOM_TRA_1PNPDE20071021_022144_000000422062_00375_29487_3641.N1	21-OCT-2007 02:21:44	Bright	42.000	51	41Gam1Leo	2.0100	4500.0	84	29487	No
31	GOM_TRA_1PNPDE20071021_024019_000000372062_00375_29487_3642.N1	21-OCT-2007 02:40:19	Dark	36.500	113	Mu Vel	2.6920	5000.0	73	29487	No
32	GOM_TRA_1PNPDE20071021_024140_000000432062_00375_29487_3643.N1	21-OCT-2007 02:41:40	Dark	42.500	65	Lam Vel	2.2040	4400.0	85	29487	No
33	GOM_TRA_1PNPDE20071021_024500_000000442062_00376_29488_3644.N1	21-OCT-2007 02:45:00	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	29488	No
34	GOM_TRA_1PNPDE20071021_024645_000000382062_00376_29488_3645.N1	21-OCT-2007 02:46:45	Dark	37.500	29	Bet Car	1.6720	10200.	75	29488	No
35	GOM_TRA_1PNPDE20071021_025040_000000502062_00376_29488_3646.N1	21-OCT-2007 02:50:40	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	29488	No
36	GOM_TRA_1PNPDE20071021_025749_000000382062_00376_29488_3647.N1	21-OCT-2007 02:57:49	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	29488	No
37	GOM_TRA_1PNPDE20071021_025914_000000422062_00376_29488_3648.N1	21-OCT-2007 02:59:14	Dark	42.000	9	Alp Eri	0.45300	24000.	84	29488	No
38	GOM_TRA_1PNPDE20071021_030203_000000442062_00376_29488_3649.N1	21-OCT-2007 03:02:03	Straylight	43.500	157	The1Eri	2.9060	9300.0	87	29488	No
39	GOM_TRA_1PNPDE20071021_031043_000000432062_00376_29488_3650.N1	21-OCT-2007 03:10:43	Straylight	43.000	52	16Bet Cet	2.0370	4500.0	86	29488	No
40	GOM_TRA_1PNPDE20071021_032015_000000352062_00376_29488_3651.N1	21-OCT-2007 03:20:15	Bright	34.500	140	88Gam Peg	2.8340	26000.	69	29488	No
41	GOM_TRA_1PNPDE20071021_032410_000000362062_00376_29488_3652.N1	21-OCT-2007 03:24:10	Bright	35.500	58	21Alp And	2.0730	11000.	71	29488	No
42	GOM_TRA_1PNPDE20071021_032621_000000412062_00376_29488_3653.N1	21-OCT-2007 03:26:21	Bright	40.500	53	43Bet And	2.0480	3300.0	81	29488	No
43	GOM_TRA_1PNPDE20071021_033201_000000362062_00376_29488_3654.N1	21-OCT-2007 03:32:01	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	29488	No
44	GOM_TRA_1PNPDE20071021_033320_000000362062_00376_29488_3655.N1	21-OCT-2007 03:33:20	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	29488	No
45	GOM_TRA_1PNPDE20071021_034111_000000342062_00376_29488_3656.N1	21-OCT-2007 03:41:11	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	29488	No
46	GOM_TRA_1PNPDE20071021_034427_000000332062_00376_29488_3793.N1	21-OCT-2007 03:44:27	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	29488	No
47	GOM_TRA_1PNPDE20071021_034926_000000382062_00376_29488_3794.N1	21-OCT-2007 03:49:26	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	29488	No
48	GOM_TRA_1PNPDE20071021_035100_000000362062_00376_29488_3795.N1	21-OCT-2007 03:51:00	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	29488	No
49	GOM_TRA_1PNPDE20071021_035428_000000532062_00376_29488_3796.N1	21-OCT-2007 03:54:28	Bright	53.000	174	52Psi UMa	3.0040	4400.0	106	29488	No

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

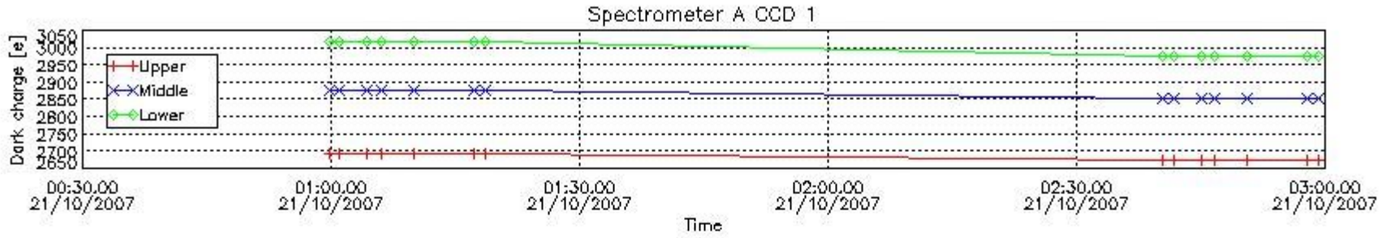


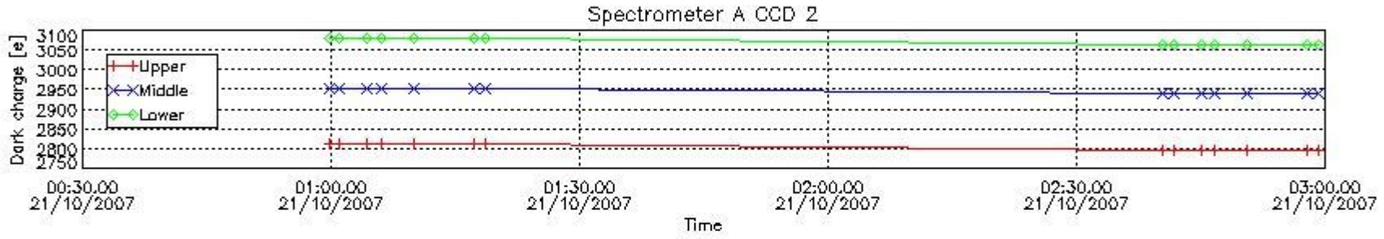
4. Overview of dark signal processing per product

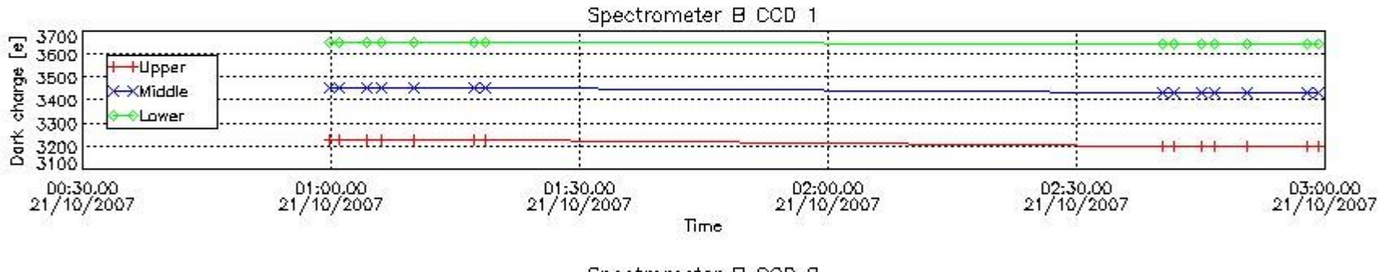
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

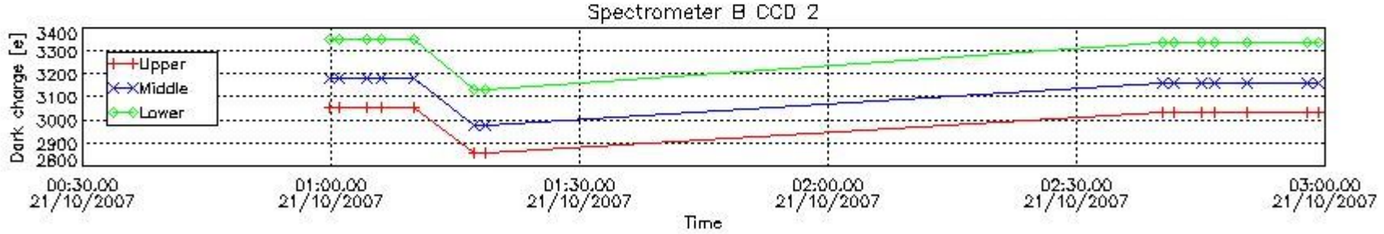
4.1 All products used the DSA observation for the DC computation

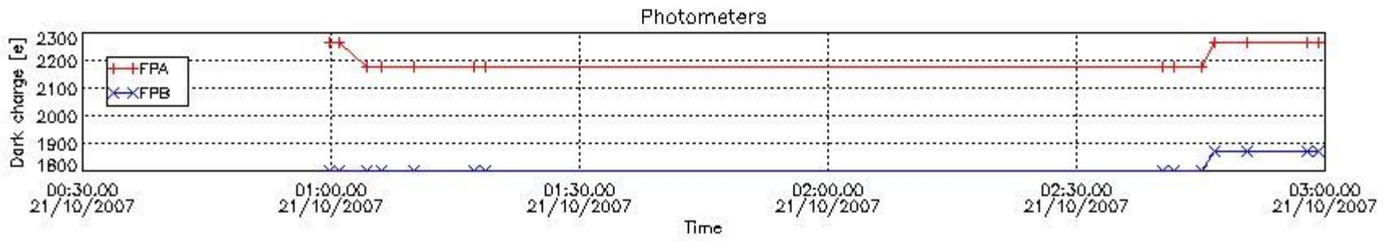
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











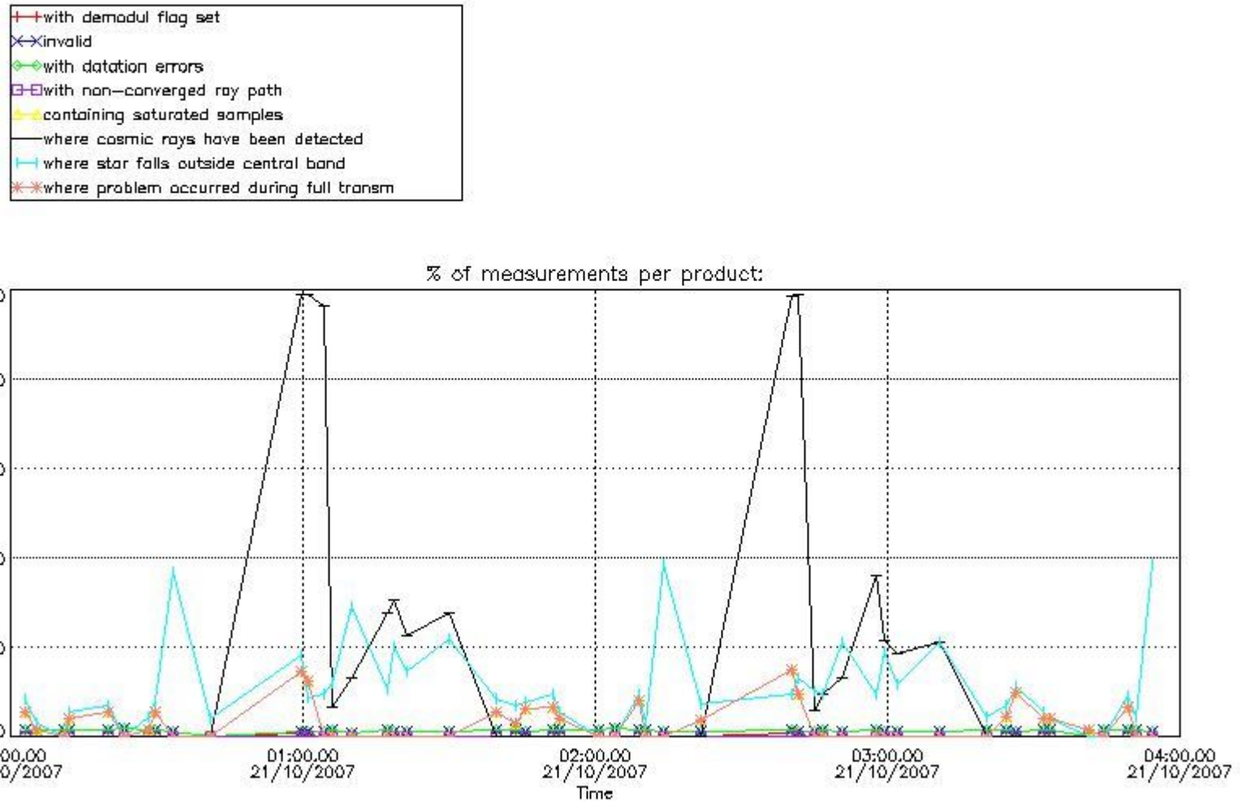
5. Demodulation flag and quality information monitoring

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.

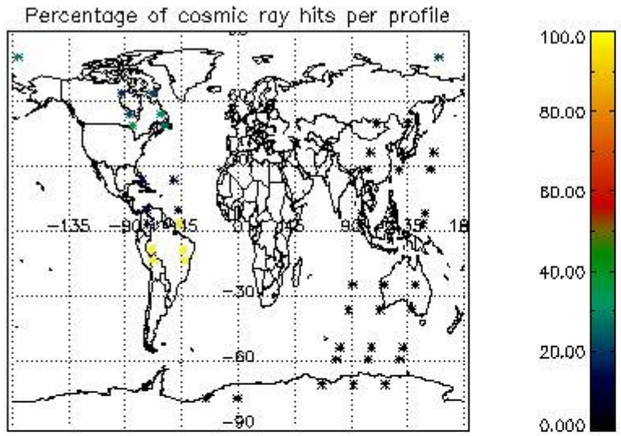
5.1 Percentage of products during reporting period with:

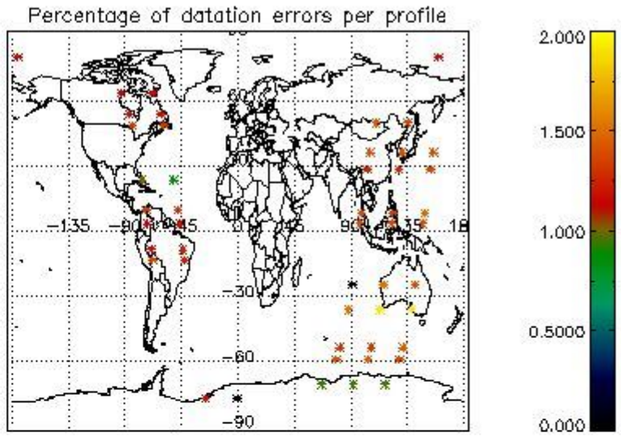
At least one measurement with demodulation flag set:	22.4490 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

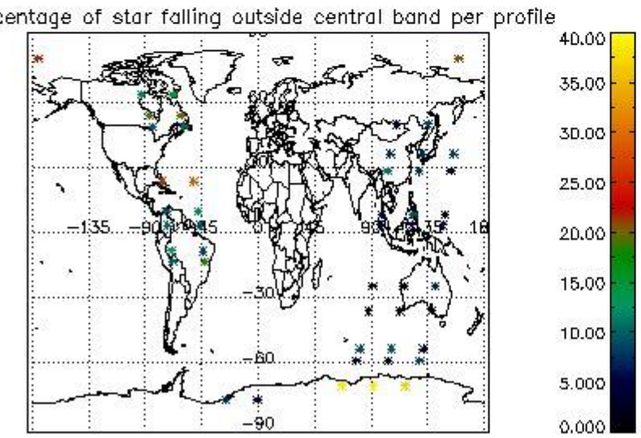
5.2 Plot quality information per product (time dependant)

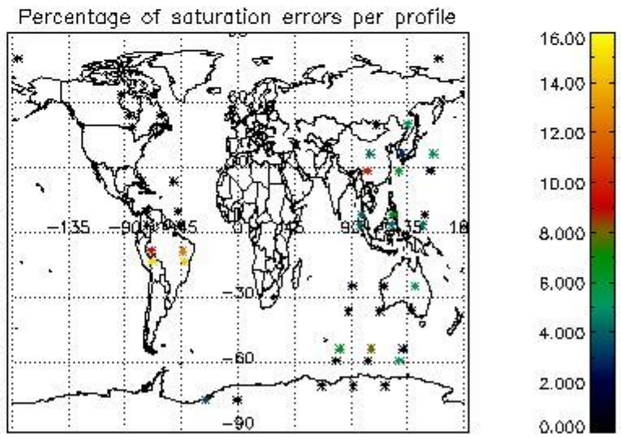


5.3 Plot quality information per product (world map)









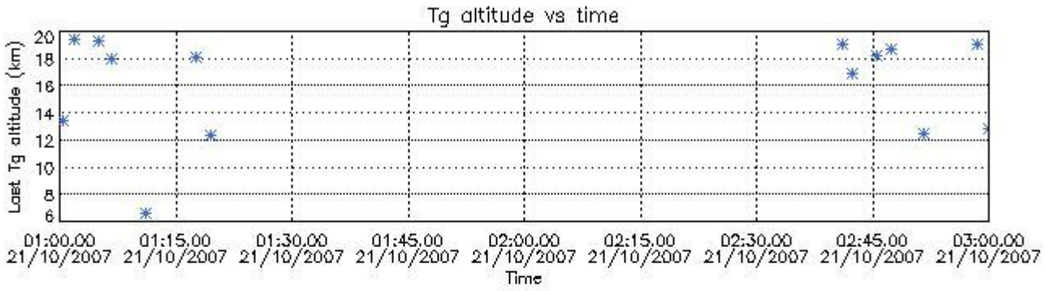
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

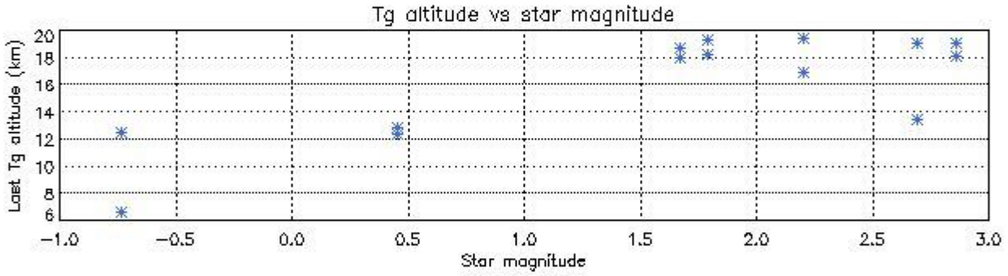
6.1 Statistics on tangent altitude lost:

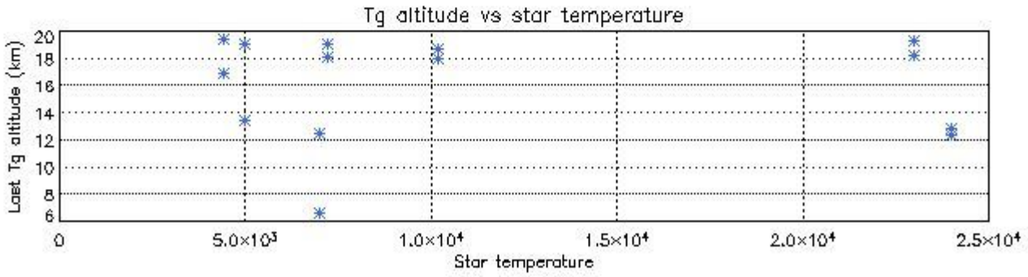
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.014	21.958	NaN
St. deviation:	3.8531	9.2728	NaN
Maximum:	19.432	48.595	NaN
Minimum:	6.5635	3.9706	NaN
Number of data:	14.000	31.000	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

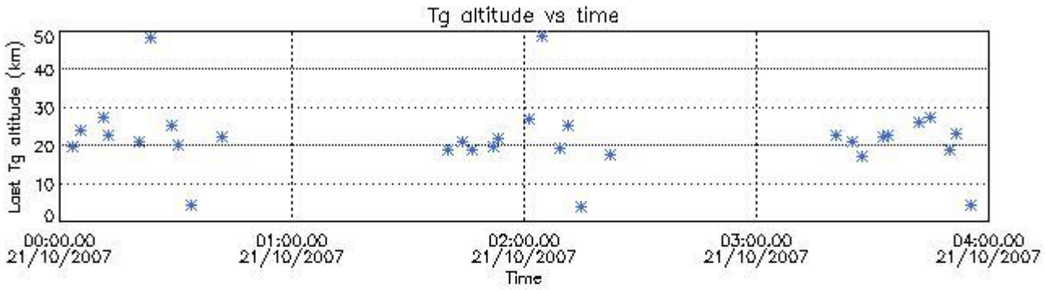


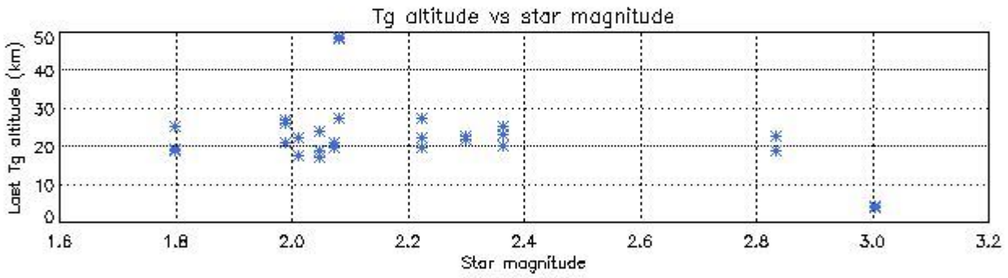


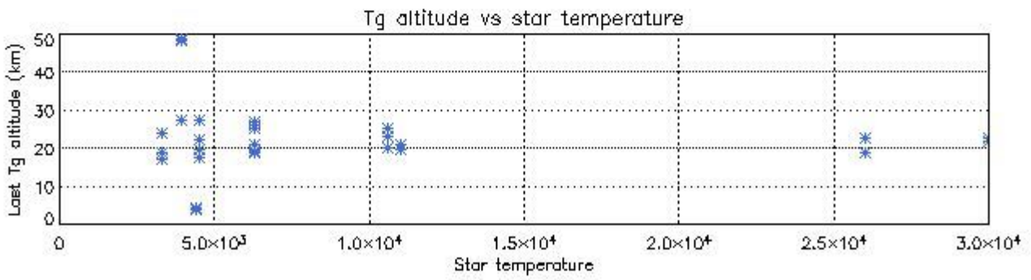


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost





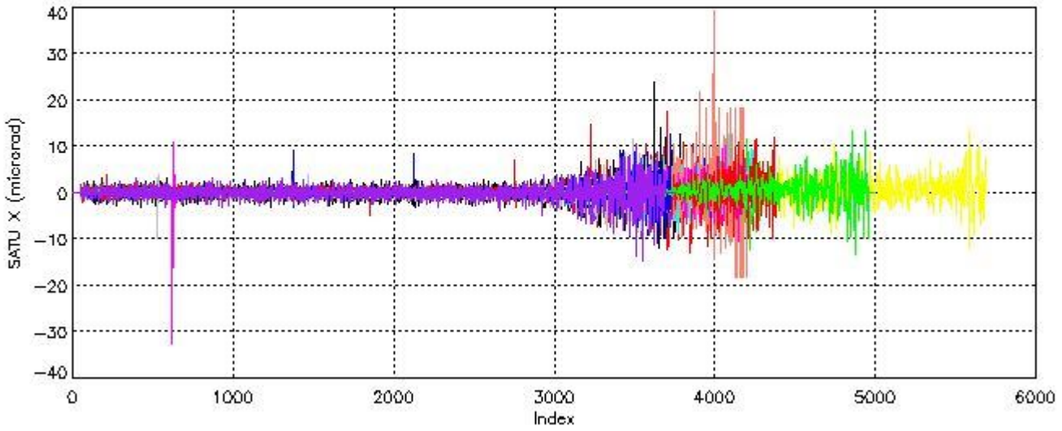


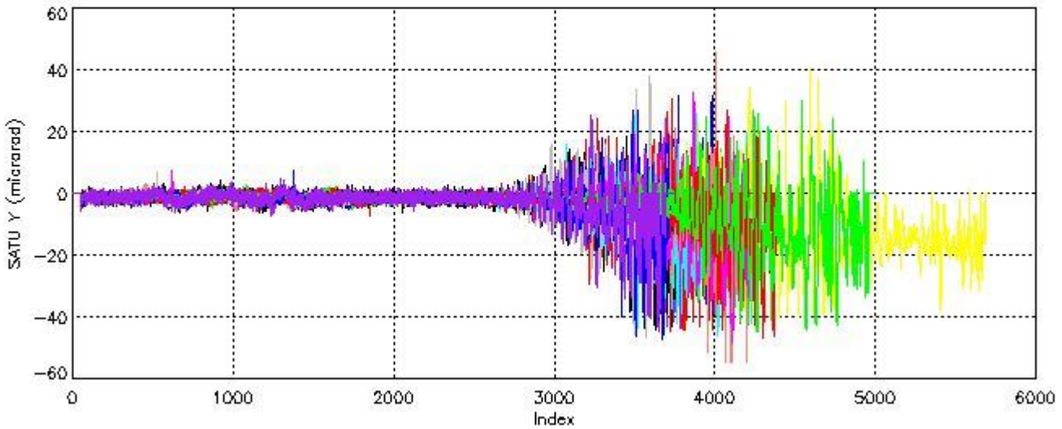
7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main 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:	0.080330	-1.3226	0.054882	-1.2584
St. deviation:	0.51365	0.95194	0.62988	1.3084
Maximum:	11.000	7.6000	5.9000	5.0000
Minimum:	-32.800	-6.3000	-5.4000	-9.4000

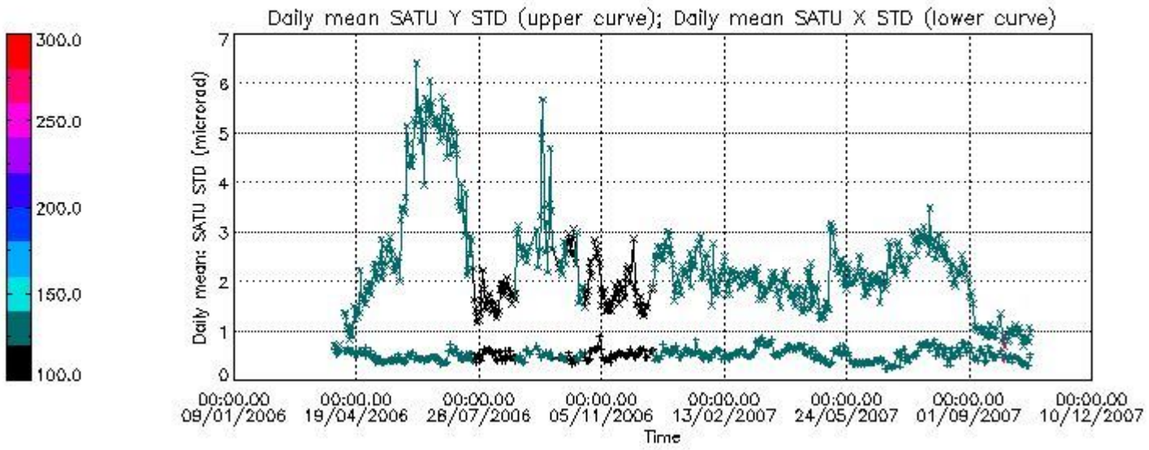
Number of data:	12850.	12850.	25850.	25850.

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.

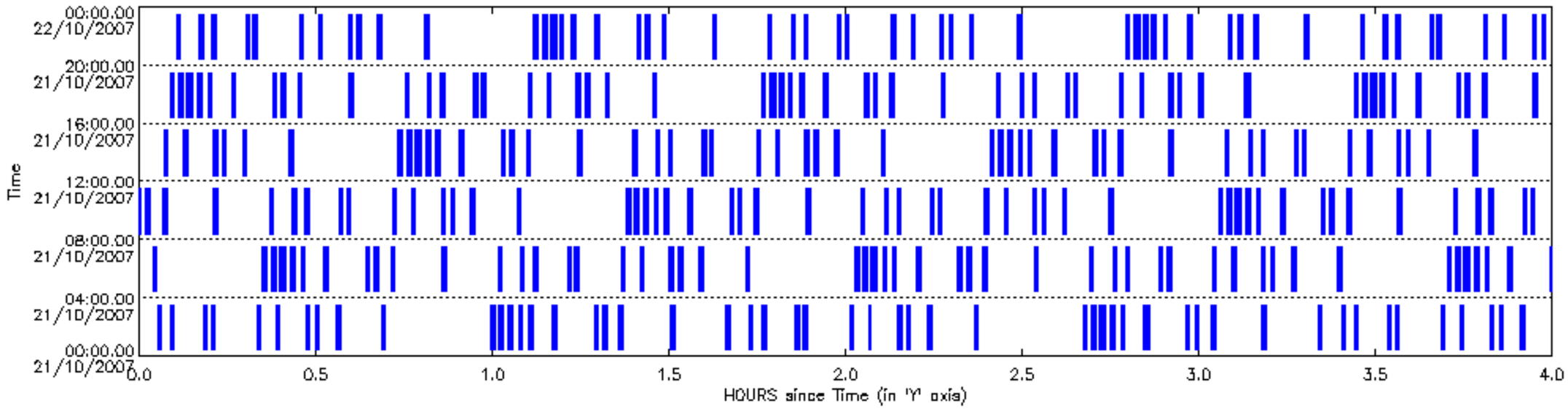
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

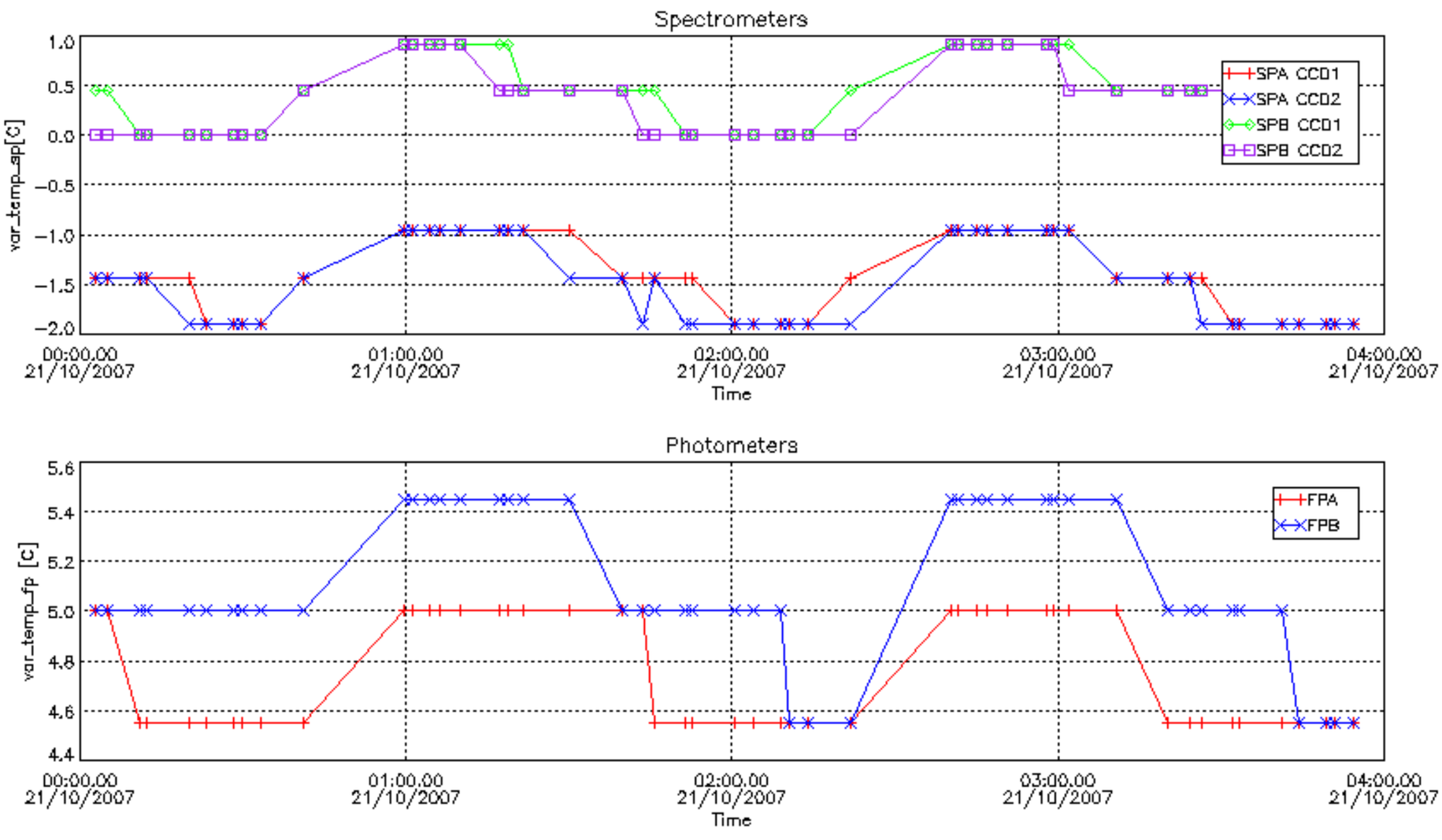


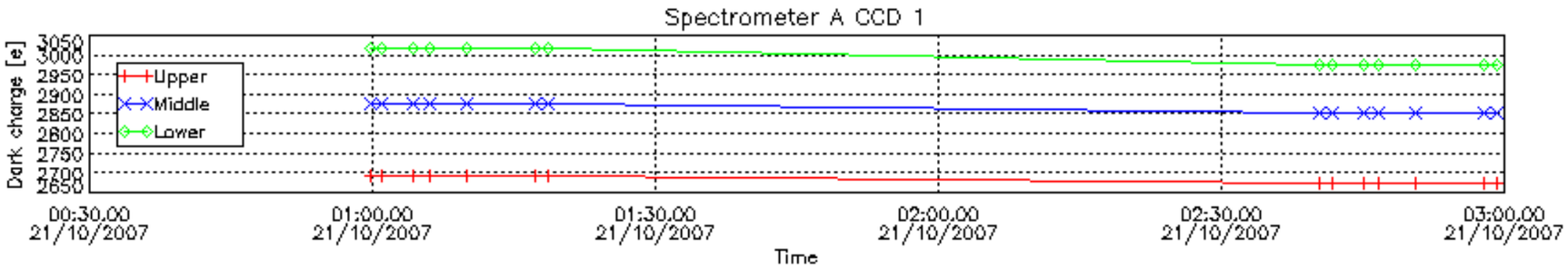
8. Auxiliary Data Files used for the production reported in section 2.4

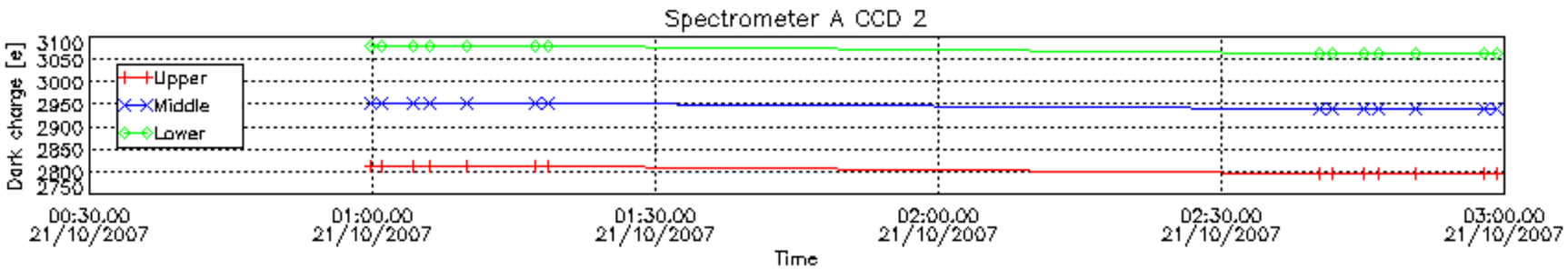
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

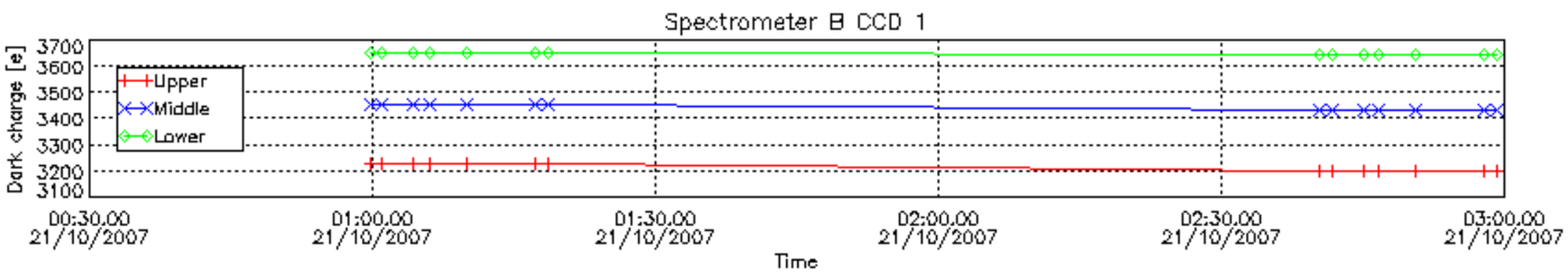
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	21-OCT-2007 00:02:58
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071019_103017_20071018_000000_20100101_000000	1	21-OCT-2007 00:02:58
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	21-OCT-2007 00:02:58
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-OCT-2007 00:02:58
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	21-OCT-2007 00:02:58
ECMWF_FILE	AUX_ECF_AXNECM20071020_071112_20071020_210000_20071021_090000	1	21-OCT-2007 00:02:58
ECMWF_FILE	AUX_ECF_AXNECM20071020_190114_20071021_030000_20071021_150000	46	21-OCT-2007 03:44:27
OPTIONAL_ECMWF_FILE	MISSING	1	21-OCT-2007 00:02:58
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20071020_212308_000057382062_00372_29484_4396.N1	1	21-OCT-2007 00:02:58
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20071020_230405_000060572062_00373_29485_4397.N1	11	21-OCT-2007 00:59:42
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20071021_005021_000038252062_00374_29486_4398.N1	26	21-OCT-2007 02:03:51
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20071021_015925_000057382062_00375_29487_4399.N1	46	21-OCT-2007 03:44:27

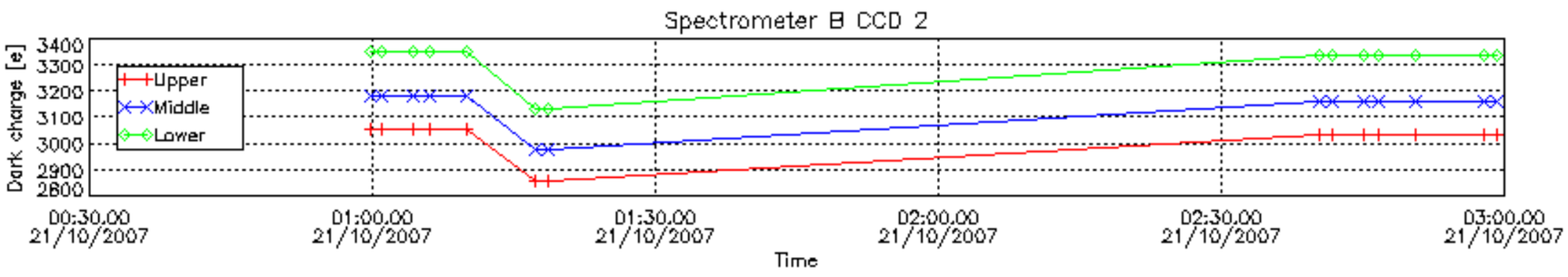

00:00.00
22/10/2007
20:00.00
21/10/2007
16:00.00
21/10/2007
12:00.00
21/10/2007
08:00.00
21/10/2007
04:00.00
21/10/2007
00:00.00
21/10/2007
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

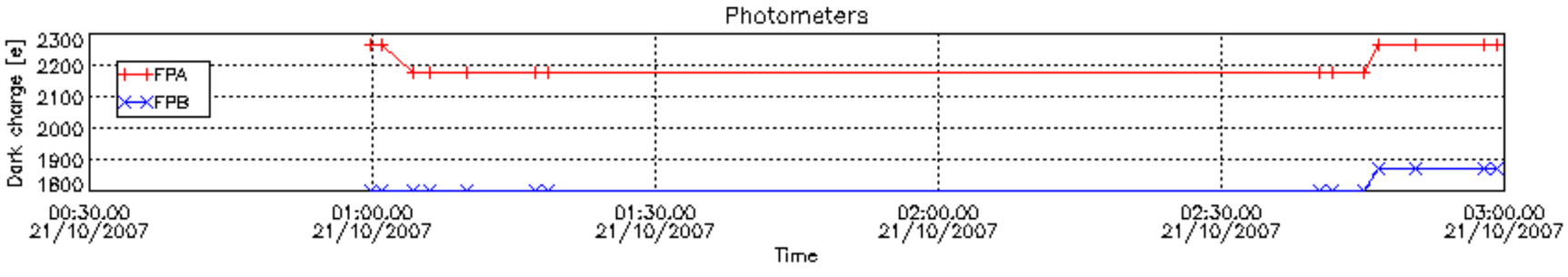

Spectrometers
var_temp_sp[C]
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
21/10/2007
01:00.00
21/10/2007
02:00.00
21/10/2007
03:00.00
21/10/2007
04:00.00
21/10/2007
Time
Photometers
var_temp_fp [C]
5.6
5.4
5.2
5.0
4.8
4.6
4.4
FPA
FPB
00:00.00
21/10/2007
01:00.00
21/10/2007
02:00.00
21/10/2007
03:00.00
21/10/2007
04:00.00
21/10/2007
Time

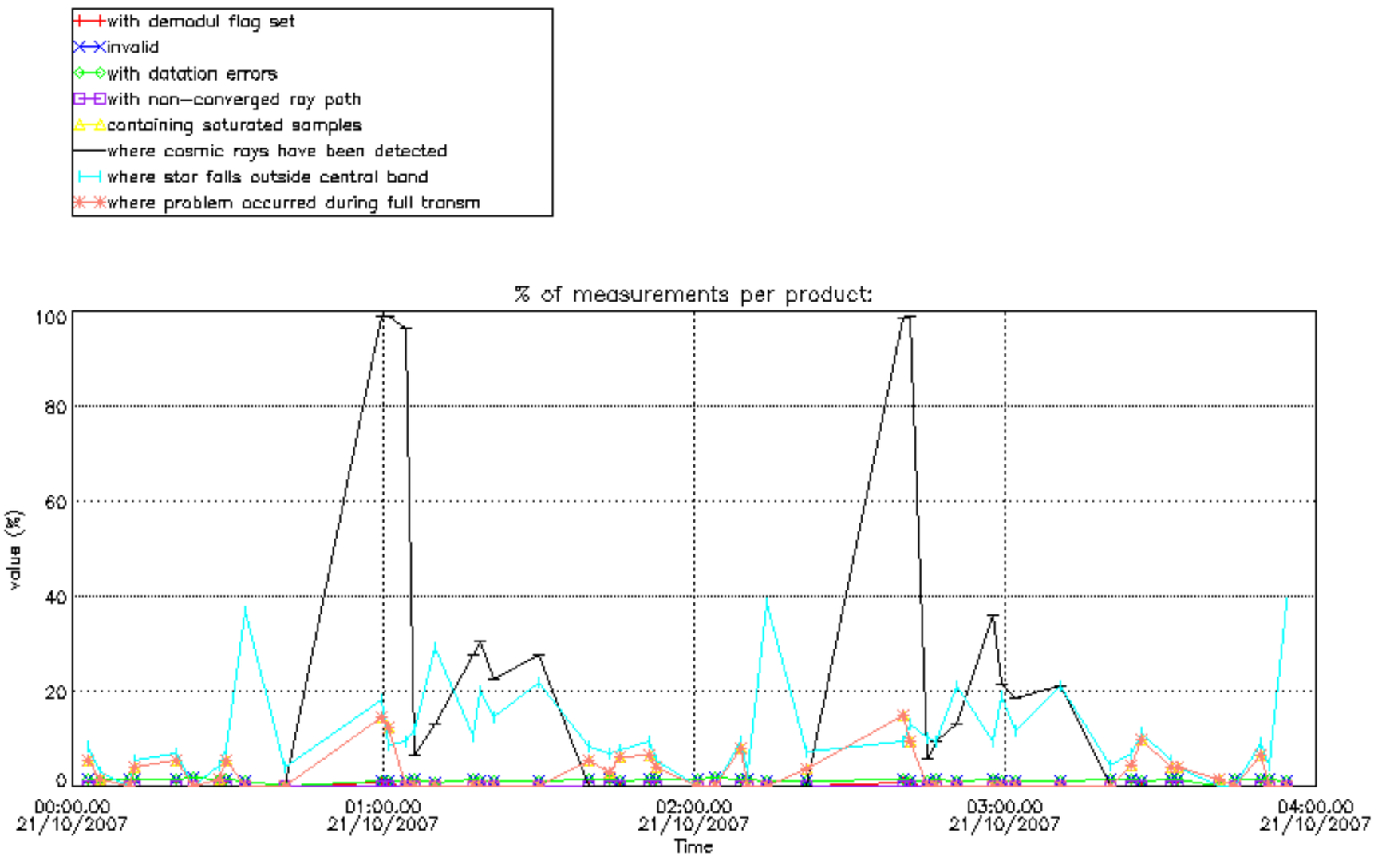

Spectrometer A CCD 1
Dark charge [e]
3050
3000
2950
2900
2850
2800
2750
2700
2650
Upper
Middle
Lower
00:30.00 21/10/2007
01:00.00 21/10/2007
01:30.00 21/10/2007
02:00.00 21/10/2007
02:30.00 21/10/2007
03:00.00 21/10/2007
Time


Spectrometer A CCD 2
Dark charge [e]
3100
3050
3000
2950
2900
2850
2800
2750
Upper
Middle
Lower
00:30.00 21/10/2007
01:00.00 21/10/2007
01:30.00 21/10/2007
02:00.00 21/10/2007
02:30.00 21/10/2007
03:00.00 21/10/2007
Time

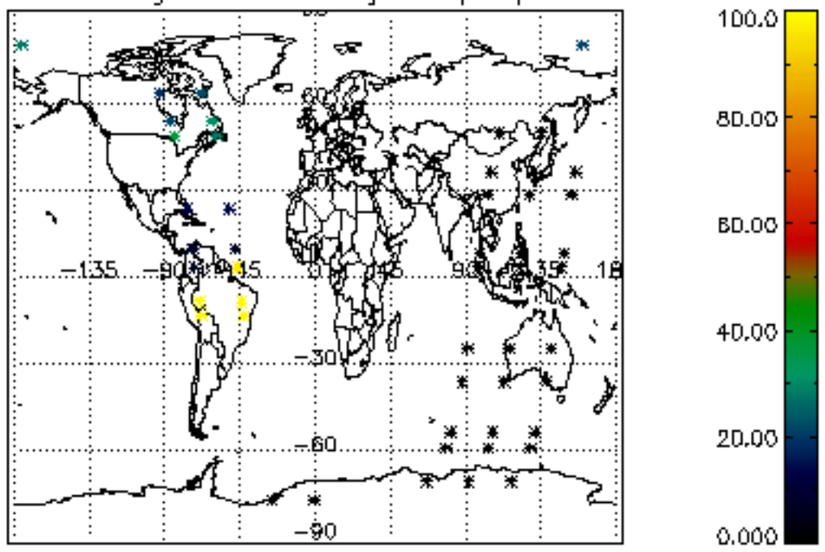

Spectrometer B CCD 1
Dark charge [e]
3700
3600
3500
3400
3300
3200
3100
Upper
Middle
Lower
00:30.00 21/10/2007
01:00.00 21/10/2007
01:30.00 21/10/2007
02:00.00 21/10/2007
02:30.00 21/10/2007
03:00.00 21/10/2007
Time


Spectrometer B CCD 2
Dark charge [e]
3400
3300
3200
3100
3000
2900
2800
Upper
Middle
Lower
00:30.00 21/10/2007
01:00.00 21/10/2007
01:30.00 21/10/2007
02:00.00 21/10/2007
02:30.00 21/10/2007
03:00.00 21/10/2007
Time

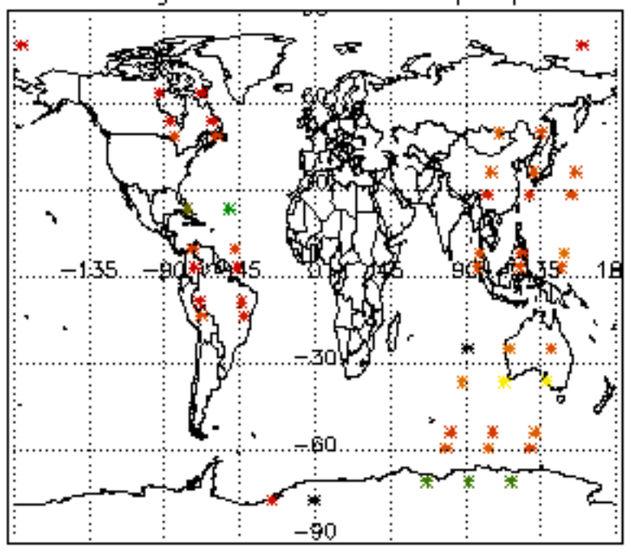

Photometers
Dark charge [e]
2300
2200
2100
2000
1900
1800
FPA
FPB
00:30.00 21/10/2007
01:00.00 21/10/2007
01:30.00 21/10/2007
02:00.00 21/10/2007
02:30.00 21/10/2007
03:00.00 21/10/2007
Time

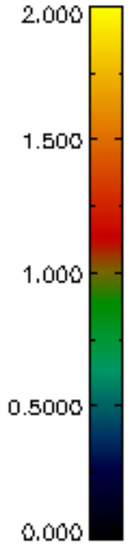

with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
value (%)
100
80
60
40
20
0
00:00.00
21/10/2007
01:00.00
21/10/2007
02:00.00
21/10/2007
03:00.00
21/10/2007
04:00.00
21/10/2007
Time

Percentage of cosmic ray hits per profile

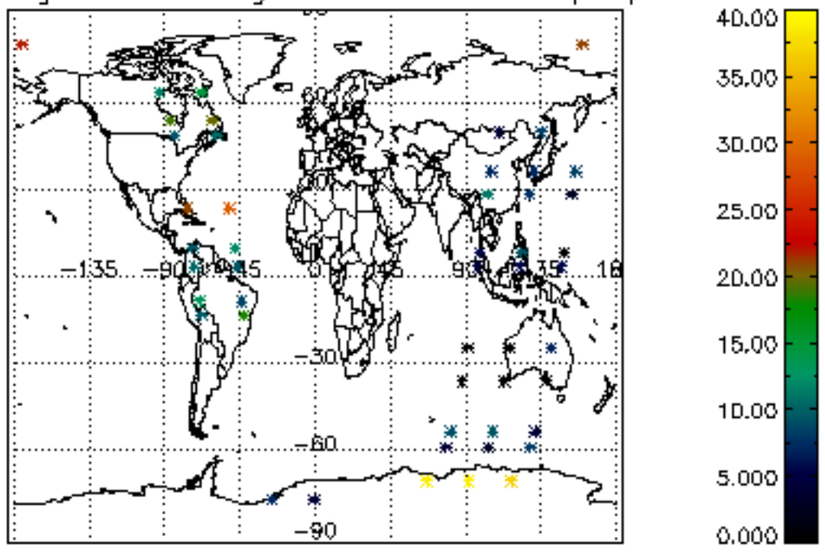


Percentage of datation errors per profile

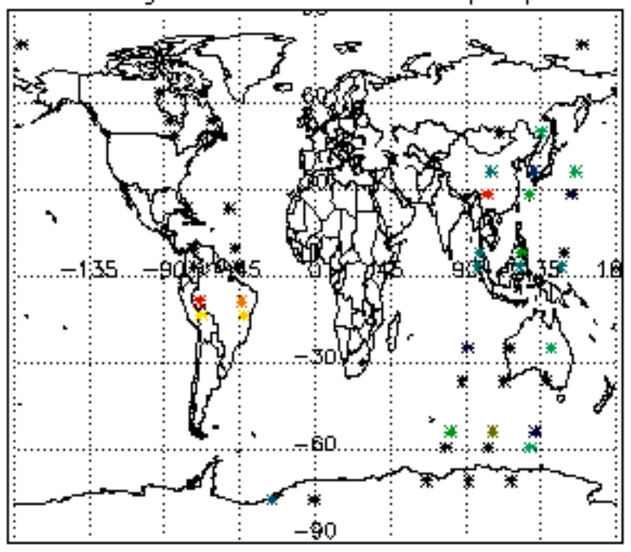


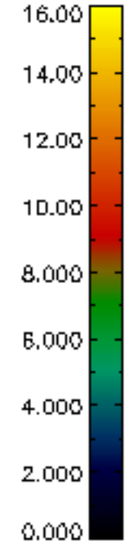


Percentage of star falling outside central band per profile

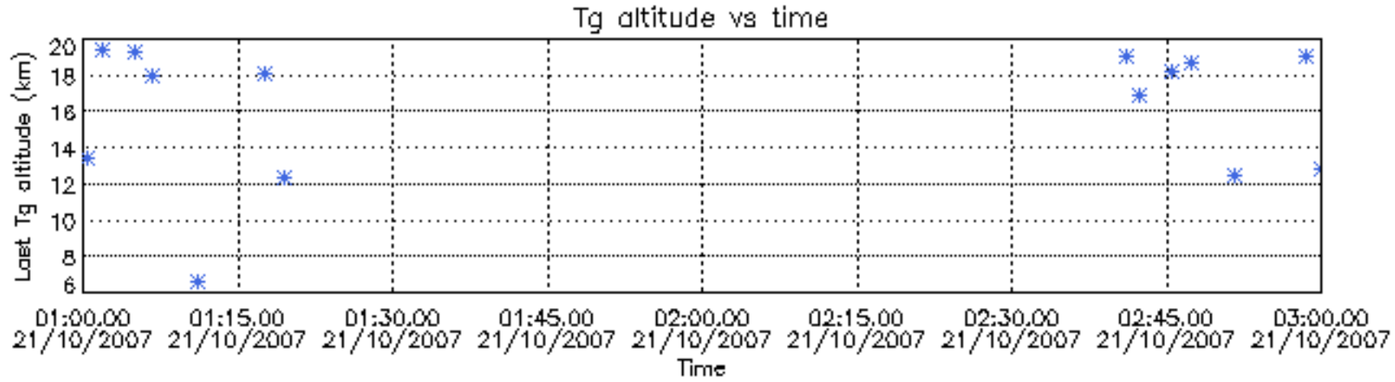


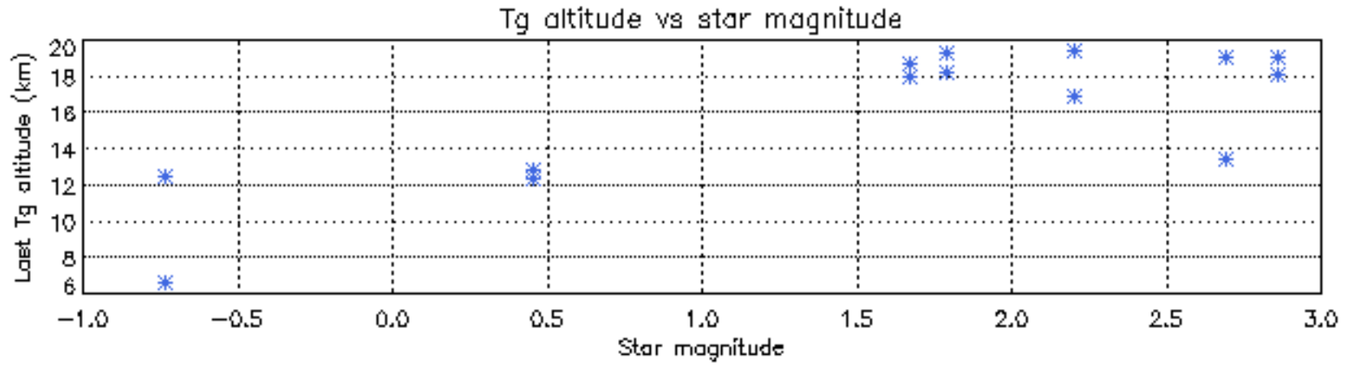
Percentage of saturation errors per profile

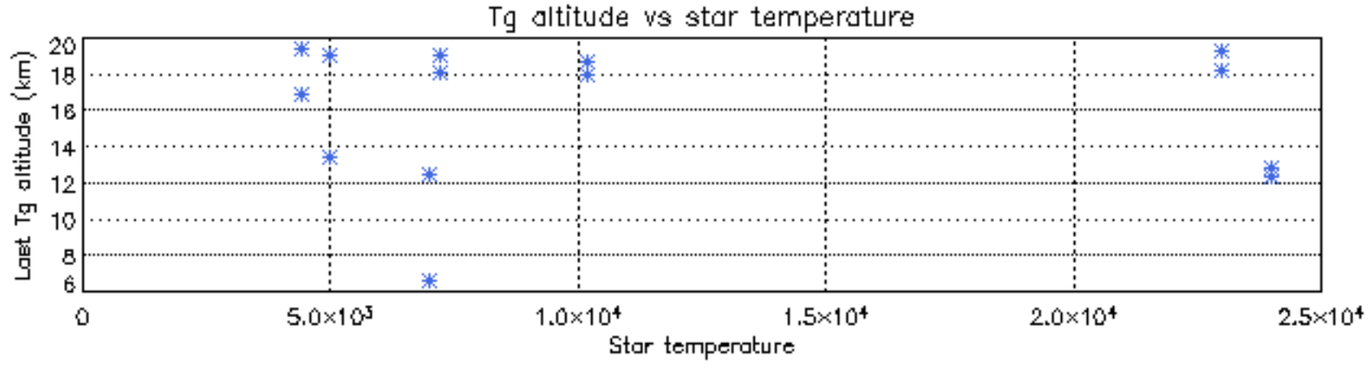




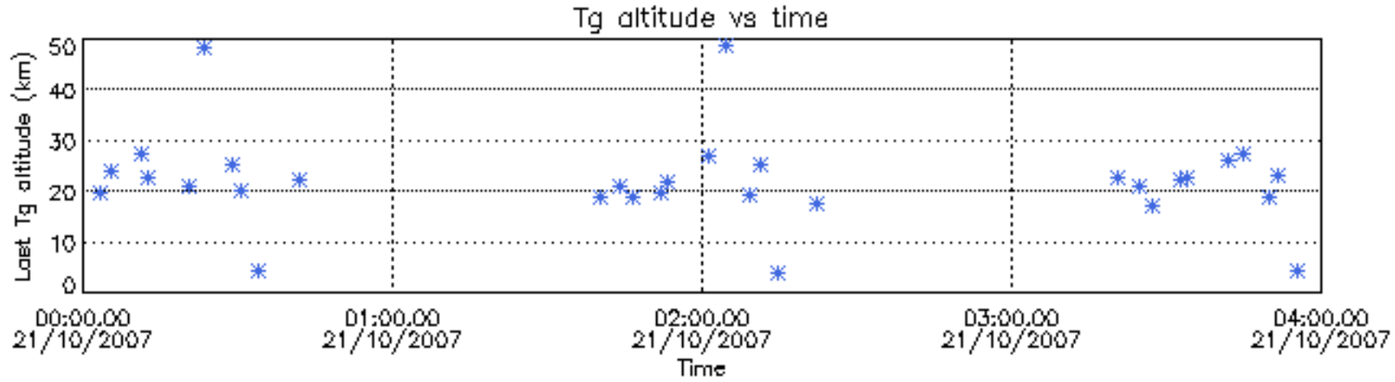
Tangent altitude at which the star is lost

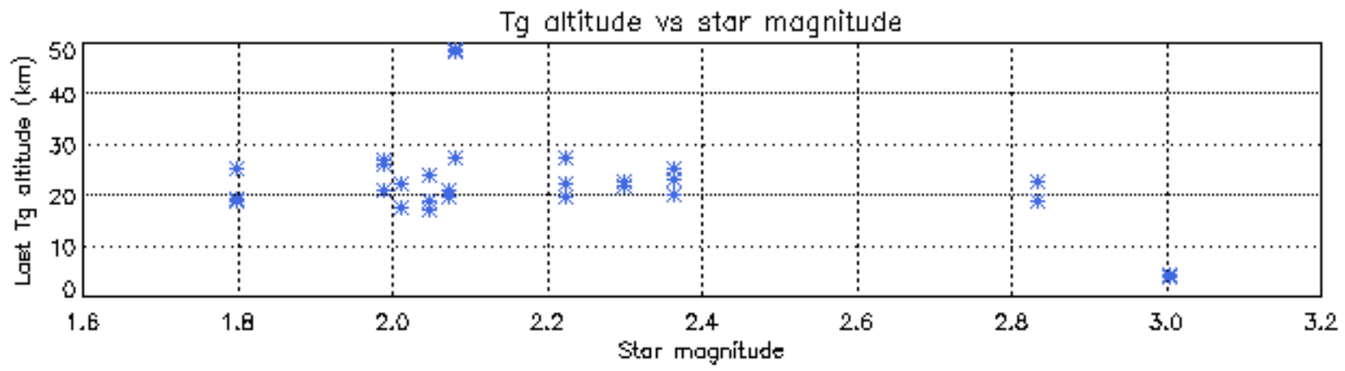


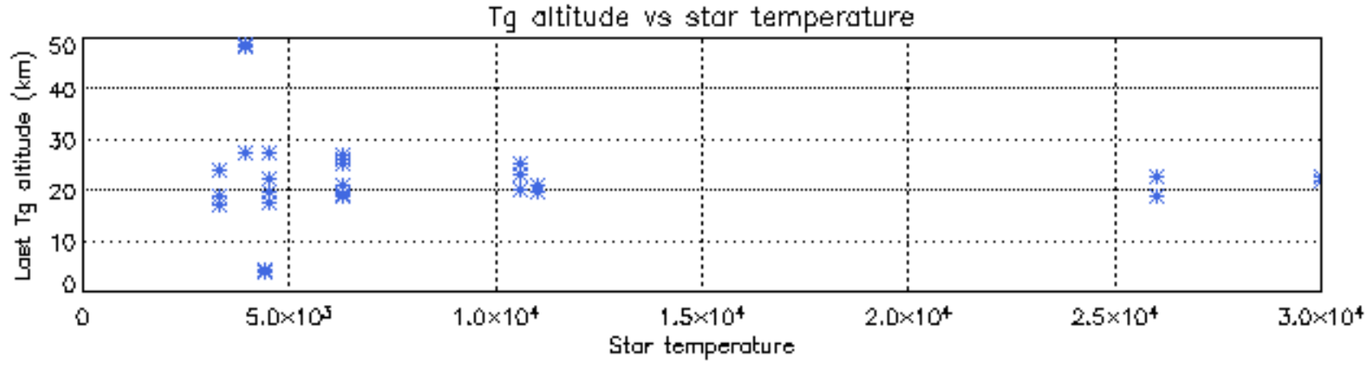


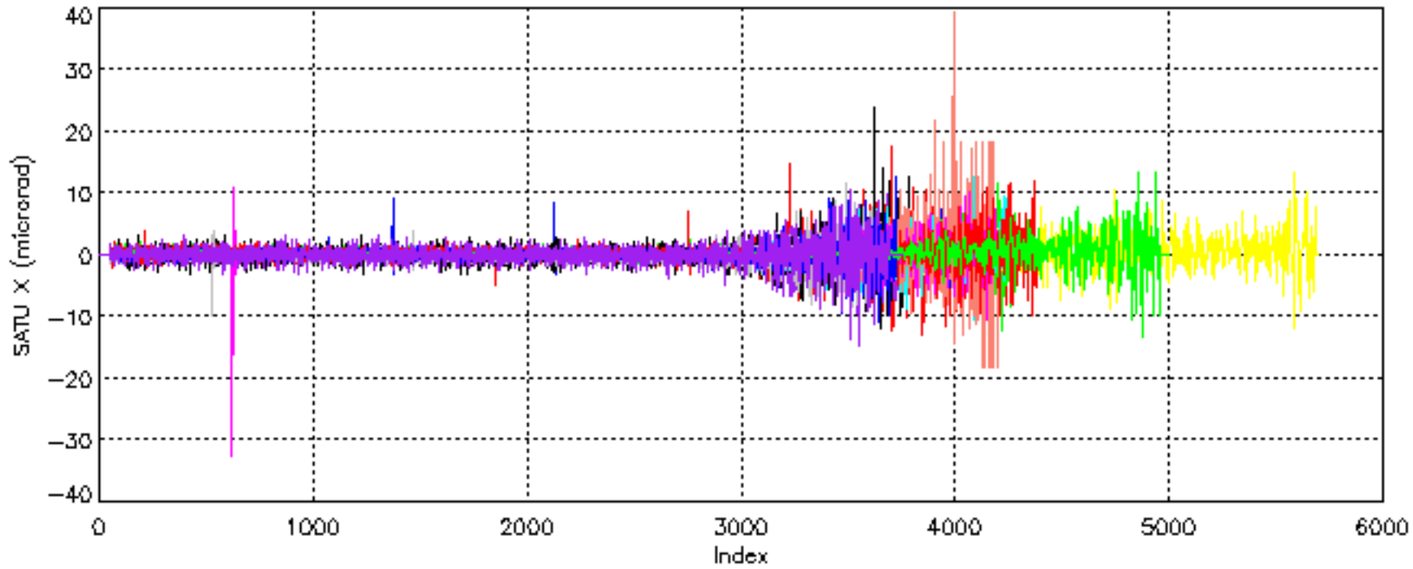


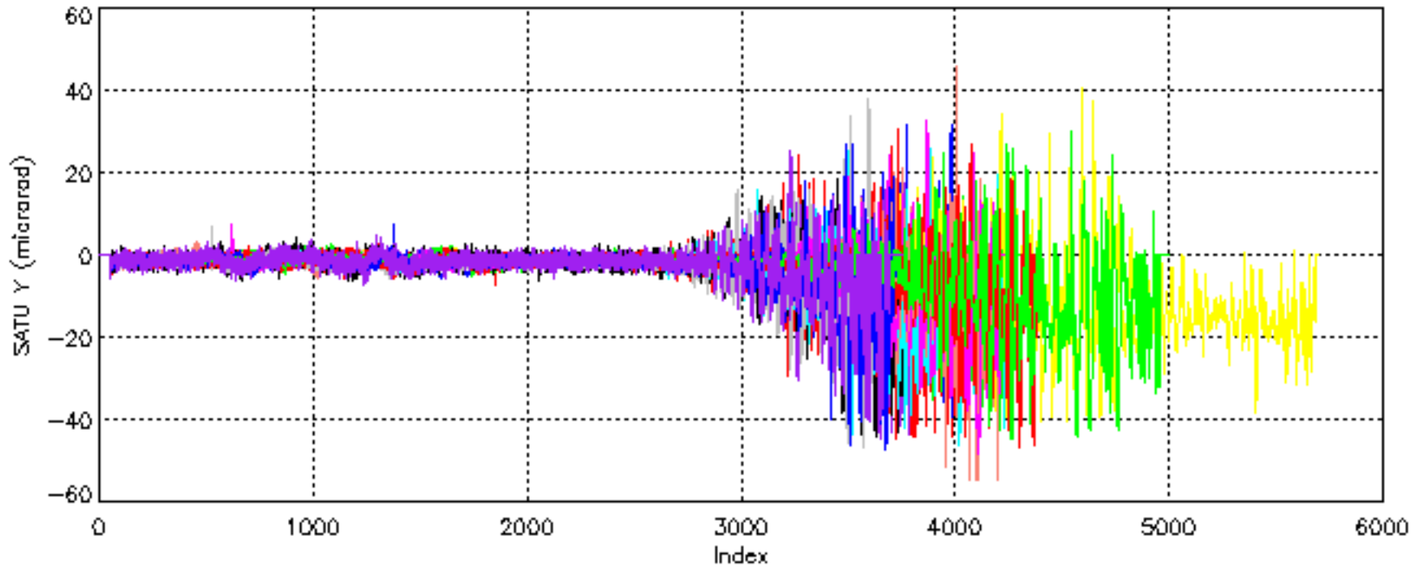
Tangent altitude at which the star is lost

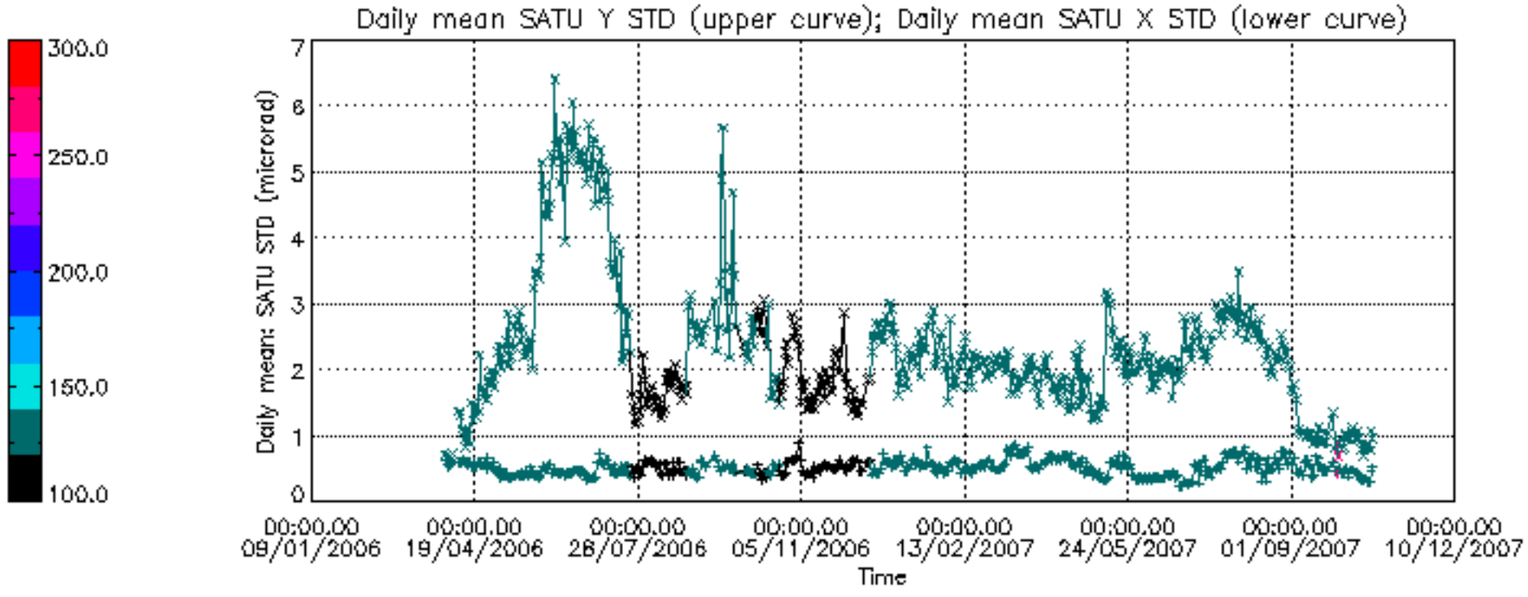







40
30
20
10
0
−10
−20
−30
−40
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
Index


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
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071001_023719_000055952062_00089_29201_4449.N1
1;-2131.0; 01-OCT-2007 02:37:19; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29201
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
10; 817.9; 01-OCT-2007 03:26:28; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;29202
11; 1140.1; 01-OCT-2007 03:31:50; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;29202
12; 2167.6; 01-OCT-2007 03:48:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29202
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
15; 3428.7; 01-OCT-2007 04:09:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29202
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071001_041755_000055962062_00090_29202_4450.N1
1;-2131.0; 01-OCT-2007 04:17:55; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29202
2;-2040.9; 01-OCT-2007 04:19:25; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29202
3;-1448.9; 01-OCT-2007 04:29:17; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29202
4; -876.3; 01-OCT-2007 04:38:49; Dark ; 43.5; 48; 30Alp Hya ; 1.98; 4100;occ; 87; 0;29202
5; -452.8; 01-OCT-2007 04:45:53; Dark ; 32.0; 132; 15Rho Pup ; 2.80; 6900;occ; 64; 0;29202
6; -295.5; 01-OCT-2007 04:48:30; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;29202
7; -140.9; 01-OCT-2007 04:51:05; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29202
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9; 83.7; 01-OCT-2007 04:54:49; Dark ; 45.5; 161; Tau Pup ; 2.93; 4500;occ; 91; 0;29203
10; 168.0; 01-OCT-2007 04:56:14; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;29203
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16; 2952.5; 01-OCT-2007 05:42:38; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;29203
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3; 2168.2; 01-OCT-2007 20:34:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29212
4; 2386.3; 01-OCT-2007 20:38:35; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29212
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8; 3996.4; 01-OCT-2007 21:05:26; Bright; 43.0; 82; 48Bet UMa ; 2.37; 10600;occ; 86; 0;29212
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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6; 175.4; 01-OCT-2007 21:42:20; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;29213
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8; 822.1; 01-OCT-2007 21:53:07; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29213
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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  13; 6205.4; 01-OCT-2007 08:17:27; Dark  ;  58.5;    2;   Alp Car  ;-0.74;  7000;occ; 117;   0;29204
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14; 6778.7; 03-OCT-2007 10:44:58; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29234
15; 6866.4; 03-OCT-2007 10:46:26; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;29234

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   9; 4004.1; 06-OCT-2007 21:48:40; Bright;  36.0;   82; 48Bet UMa  ; 2.37; 10600;occ;  72;   0;29284
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  14; 3918.8; 14-OCT-2007 00:48:20; Bright;  37.0;   36; 50Alp UMa  ; 1.80;  6300;occ;  74;   0;29386
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  16; 6075.8; 21-OCT-2007 17:50:09; Dark  ;  43.0;   46;   Del Vel  ; 1.95; 10600;occ;  86;   0;29496
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   7; 3916.9; 27-OCT-2007 15:45:03; Bright;  38.5;   36; 50Alp UMa  ; 1.80;  6300;occ;  77;   0;29581
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   9; 4228.0; 27-OCT-2007 15:50:14; Bright;  38.5;  174; 52Psi UMa  ; 3.00;  4400;occ;  77;   0;29581
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   7; 3916.2; 28-OCT-2007 15:13:26; Bright;  37.0;   36; 50Alp UMa  ; 1.80;  6300;occ;  74;   0;29595
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  10; 4228.6; 28-OCT-2007 18:39:50; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75;   0;29597
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