GOMOS Daily Report 07-JUN-2009

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.

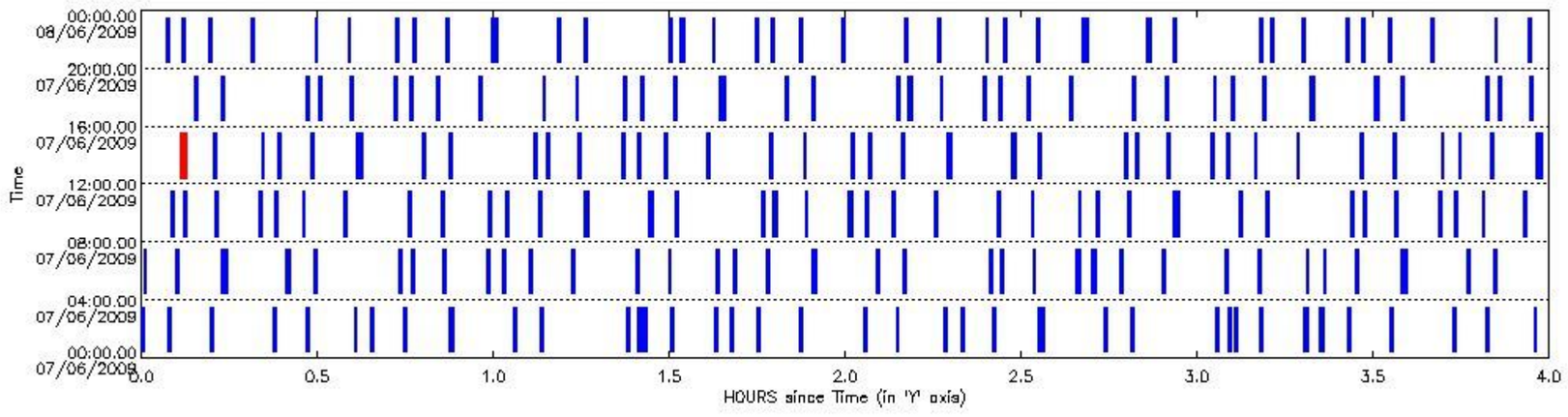
Item	Value
Time of report generation	11JUN2009 04:39:14
Data source version	GOMOS/5.00
Start time of products	07JUN2009 00:04:23
Stop time of products	07JUN2009 04:05:47
Store outputs in DB	Yes
Nb of level 1b prods	37
Nb of prods with errors	0

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

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

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

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



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

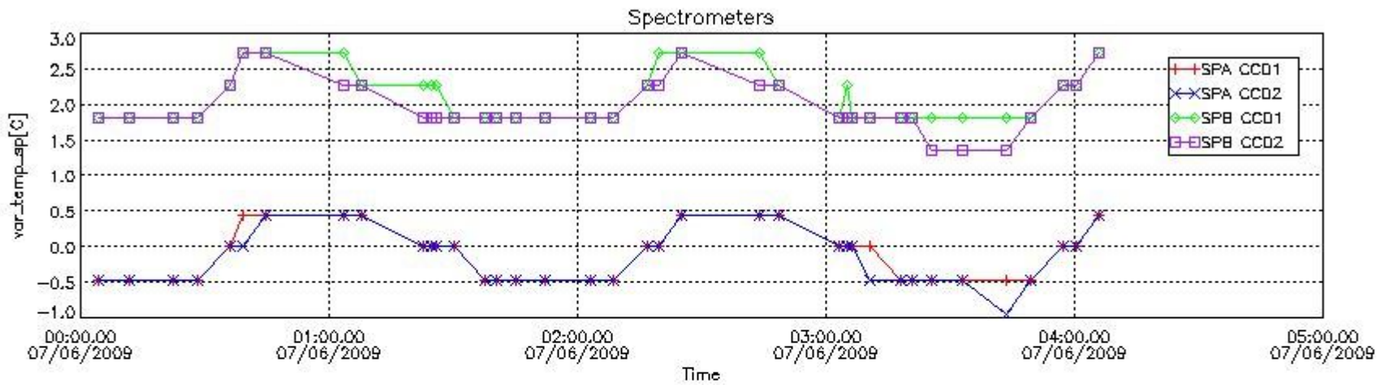
UTC start time	Star name	Star ID	Orbit
07-JUN-2009 12:06:32	5AlpCep	89	38010

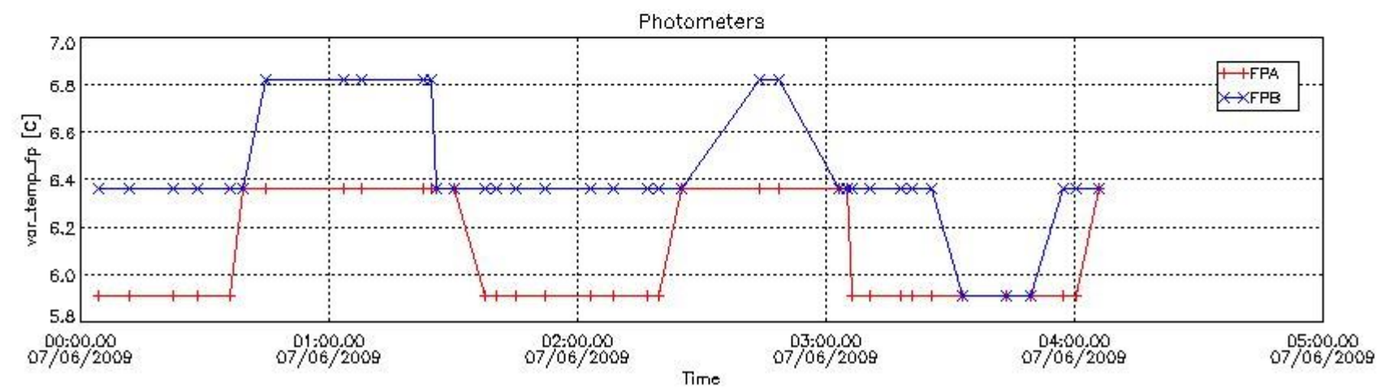
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090607_000423_000000302079_00374_38003_8075.N1	07-JUN-2009 00:04:23	Bright	30.000	133	40Zet Her	2.8070	6000.0	60	38003	No
2	GOM_TRA_1PNPDE20090607_001137_000000312079_00374_38003_8076.N1	07-JUN-2009 00:11:37	Bright	31.000	130	23Bet Dra	2.7990	5800.0	62	38003	No
3	GOM_TRA_1PNPDE20090607_002227_000000312079_00374_38003_8077.N1	07-JUN-2009 00:22:27	Twi_and_stray	31.000	89	5Alp Cep	2.4510	8000.0	62	38003	No
4	GOM_TRA_1PNPDE20090607_002806_000000252079_00374_38003_8078.N1	07-JUN-2009 00:28:06	Twi_and_stray	25.000	74	11Bet Cas	2.2680	6600.0	50	38003	No
5	GOM_TRA_1PNPDE20090607_003613_000000242079_00374_38003_8079.N1	07-JUN-2009 00:36:13	Twi_and_stray	23.500	53	43Bet And	2.0480	3300.0	47	38003	No
6	GOM_TRA_1PNPDE20090607_003905_000000302079_00374_38003_8080.N1	07-JUN-2009 00:39:05	Straylight	29.500	58	21Alp And	2.0730	11000.	59	38003	No
7	GOM_TRA_1PNPDE20090607_004433_000000322079_00374_38003_8081.N1	07-JUN-2009 00:44:33	Dark	32.000	140	88Gam Peg	2.8340	26000.	64	38003	No
8	GOM_TRA_1PNPDE20090607_010321_000000422079_00374_38003_8208.N1	07-JUN-2009 01:03:21	Dark	41.500	18	24Alp PsA	1.1660	9700.0	83	38003	No
9	GOM_TRA_1PNPDE20090607_010759_000000342079_00375_38004_8209.N1	07-JUN-2009 01:07:59	Dark	34.000	31	Alp Gru	1.7340	15200.	68	38004	No
10	GOM_TRA_1PNPDE20090607_012238_000000322079_00375_38004_8210.N1	07-JUN-2009 01:22:38	Twi_and_stray	32.000	38	20Eps Sgr	1.8360	11000.	64	38004	No

11	GOM_TRA_1PNPDE20090607_012437_000000392079_00375_38004_8211.N1	07-JUN-2009 01:24:37	Twi_and_stray	39.000	57	34Sig Sgr	2.0660	26000.	78	38004	No
12	GOM_TRA_1PNPDE20090607_012541_000000352079_00375_38004_8212.N1	07-JUN-2009 01:25:41	Twi_and_stray	35.000	137	22Lam Sgr	2.8240	4400.0	70	38004	No
13	GOM_TRA_1PNPDE20090607_013007_000000292079_00375_38004_8213.N1	07-JUN-2009 01:30:07	Twi_and_stray	28.500	86	35Eta Oph	2.4300	10200.	57	38004	No
14	GOM_TRA_1PNPDE20090607_013736_000000372079_00375_38004_8214.N1	07-JUN-2009 01:37:36	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	38004	No
15	GOM_TRA_1PNPDE20090607_014019_000000372079_00375_38004_9014.N1	07-JUN-2009 01:40:19	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	38004	No
16	GOM_TRA_1PNPDE20090607_014459_000000302079_00375_38004_8216.N1	07-JUN-2009 01:44:59	Bright	29.500	133	40Zet Her	2.8070	6000.0	59	38004	No
17	GOM_TRA_1PNPDE20090607_015212_000000312079_00375_38004_8217.N1	07-JUN-2009 01:52:12	Bright	31.000	130	23Bet Dra	2.7990	5800.0	62	38004	No
18	GOM_TRA_1PNPDE20090607_020302_000000312079_00375_38004_8218.N1	07-JUN-2009 02:03:02	Twi_and_stray	31.000	89	5Alp Cep	2.4510	8000.0	62	38004	No
19	GOM_TRA_1PNPDE20090607_020841_000000252079_00375_38004_8356.N1	07-JUN-2009 02:08:41	Twi_and_stray	25.000	74	11Bet Cas	2.2680	6600.0	50	38004	No
20	GOM_TRA_1PNPDE20090607_021648_000000242079_00375_38004_8357.N1	07-JUN-2009 02:16:48	Twi_and_stray	23.500	53	43Bet And	2.0480	3300.0	47	38004	No
21	GOM_TRA_1PNPDE20090607_021942_000000302079_00375_38004_8358.N1	07-JUN-2009 02:19:42	Straylight	29.500	58	21Alp And	2.0730	11000.	59	38004	No
22	GOM_TRA_1PNPDE20090607_022510_000000322079_00375_38004_8359.N1	07-JUN-2009 02:25:10	Dark	32.000	140	88Gam Peg	2.8340	26000.	64	38004	No
23	GOM_TRA_1PNPDE20090607_024359_000000422079_00375_38004_8360.N1	07-JUN-2009 02:43:59	Dark	41.500	18	24Alp PsA	1.1660	9700.0	83	38004	No
24	GOM_TRA_1PNPDE20090607_024836_000000342079_00376_38005_8361.N1	07-JUN-2009 02:48:36	Dark	34.000	31	Alp Gru	1.7340	15200.	68	38005	No
25	GOM_TRA_1PNPDE20090607_030315_000000322079_00376_38005_8362.N1	07-JUN-2009 03:03:15	Twi_and_stray	32.000	38	20Eps Sgr	1.8360	11000.	64	38005	No
26	GOM_TRA_1PNPDE20090607_030513_000000392079_00376_38005_8363.N1	07-JUN-2009 03:05:13	Twi_and_stray	39.000	57	34Sig Sgr	2.0660	26000.	78	38005	No
27	GOM_TRA_1PNPDE20090607_030617_000000362079_00376_38005_8364.N1	07-JUN-2009 03:06:17	Twi_and_stray	35.500	137	22Lam Sgr	2.8240	4400.0	71	38005	No
28	GOM_TRA_1PNPDE20090607_031043_000000292079_00376_38005_8365.N1	07-JUN-2009 03:10:43	Twi_and_stray	29.000	86	35Eta Oph	2.4300	10200.	58	38005	No
29	GOM_TRA_1PNPDE20090607_031812_000000372079_00376_38005_8366.N1	07-JUN-2009 03:18:12	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	38005	No
30	GOM_TRA_1PNPDE20090607_032054_000000372079_00376_38005_8367.N1	07-JUN-2009 03:20:54	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	38005	No
31	GOM_TRA_1PNPDE20090607_032534_000000302079_00376_38005_8368.N1	07-JUN-2009 03:25:34	Bright	29.500	133	40Zet Her	2.8070	6000.0	59	38005	No
32	GOM_TRA_1PNPDE20090607_033248_000000312079_00376_38005_8369.N1	07-JUN-2009 03:32:48	Bright	31.000	130	23Bet Dra	2.7990	5800.0	62	38005	No
33	GOM_TRA_1PNPDE20090607_034337_000000312079_00376_38005_8370.N1	07-JUN-2009 03:43:37	Twi_and_stray	30.500	89	5Alp Cep	2.4510	8000.0	61	38005	No
34	GOM_TRA_1PNPDE20090607_034917_000000262079_00376_38005_8502.N1	07-JUN-2009 03:49:17	Twi_and_stray	25.500	74	11Bet Cas	2.2680	6600.0	51	38005	No
35	GOM_TRA_1PNPDE20090607_035725_000000242079_00376_38005_8503.N1	07-JUN-2009 03:57:25	Twi_and_stray	23.500	53	43Bet And	2.0480	3300.0	47	38005	No
36	GOM_TRA_1PNPDE20090607_040018_000000302079_00376_38005_8504.N1	07-JUN-2009 04:00:18	Straylight	30.000	58	21Alp And	2.0730	11000.	60	38005	No
37	GOM_TRA_1PNPDE20090607_040547_000000322079_00376_38005_8505.N1	07-JUN-2009 04:05:47	Dark	32.000	140	88Gam Peg	2.8340	26000.	64	38005	No

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



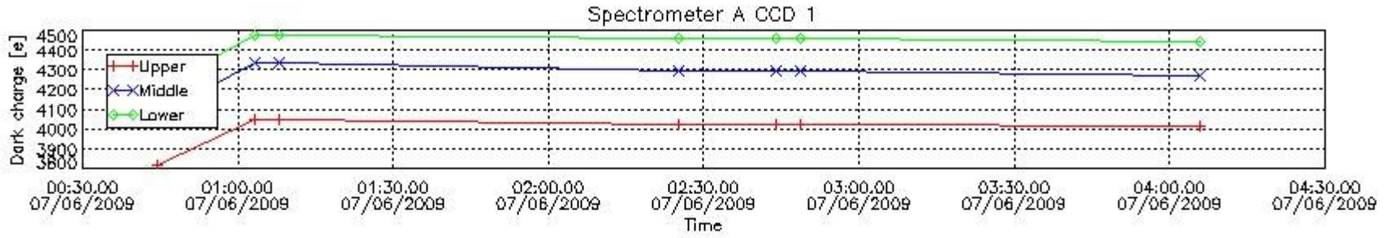


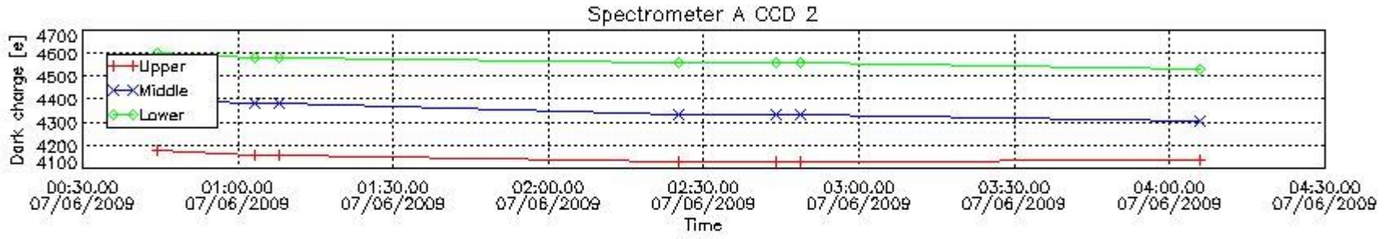
4. Overview of dark signal processing per product

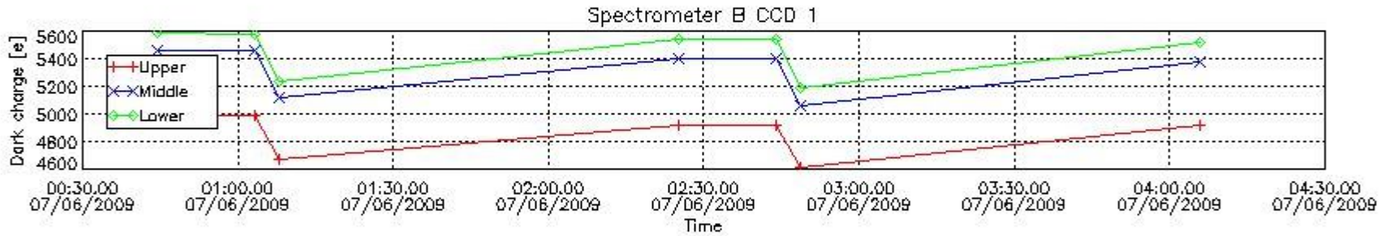
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

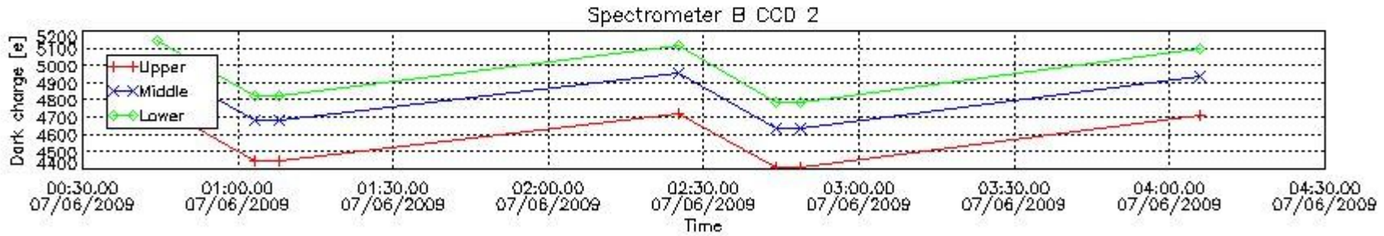
4.1 All products used the DSA observation for the DC computation

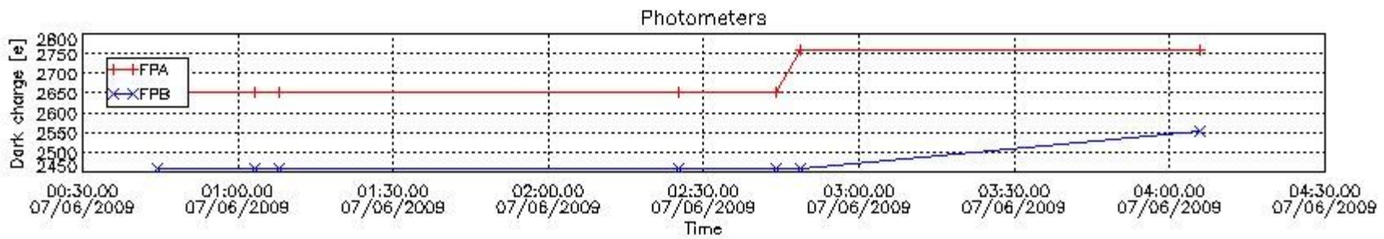
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











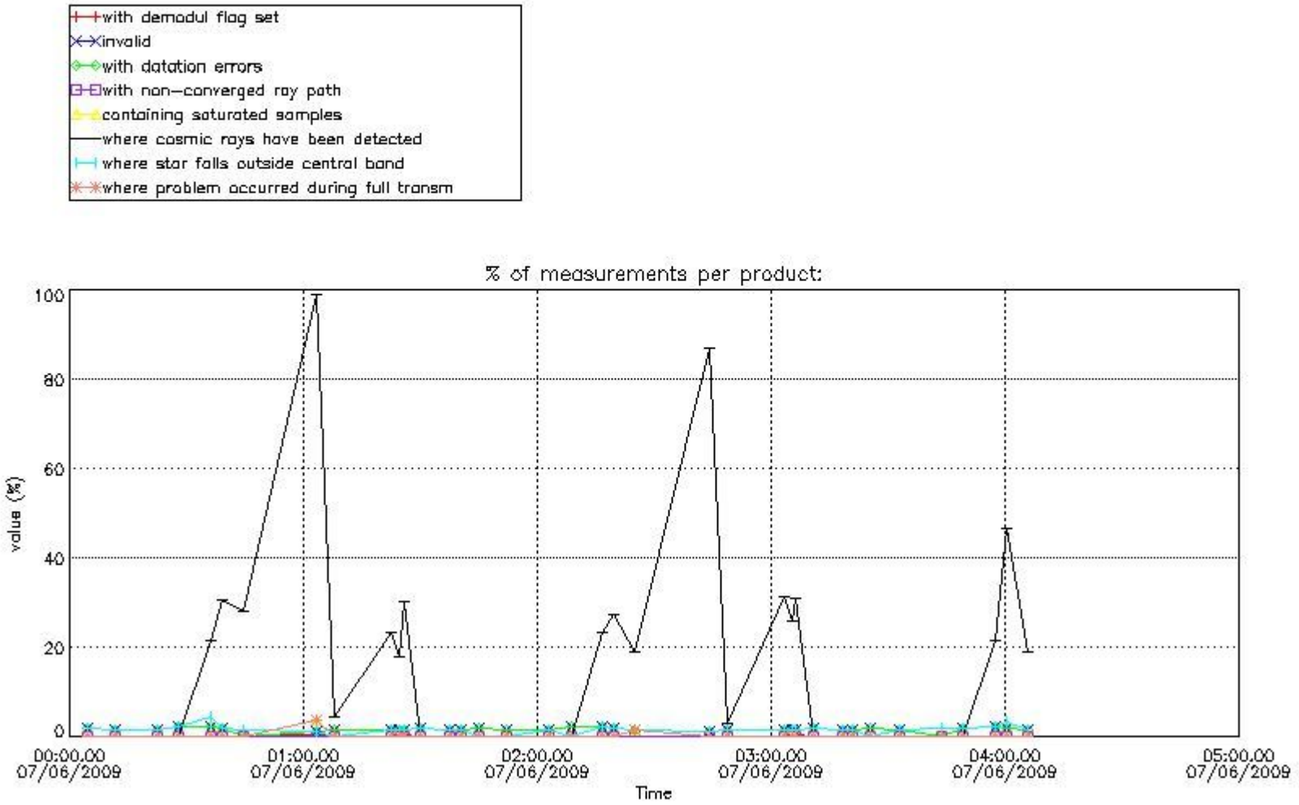
5. Demodulation flag and quality information monitoring

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:

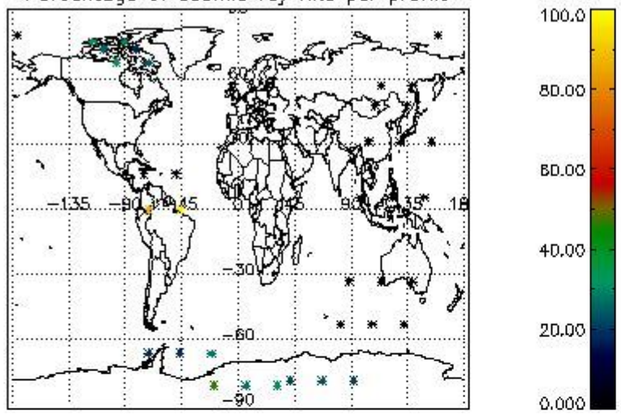
At least one measurement with demodulation flag set:	35.1351 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

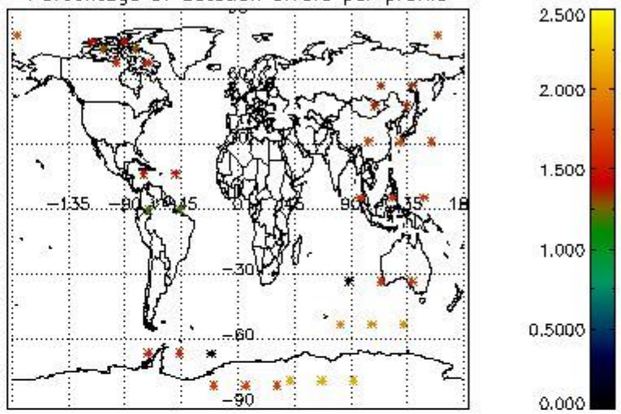


5.3 Plot quality information per product (world map)

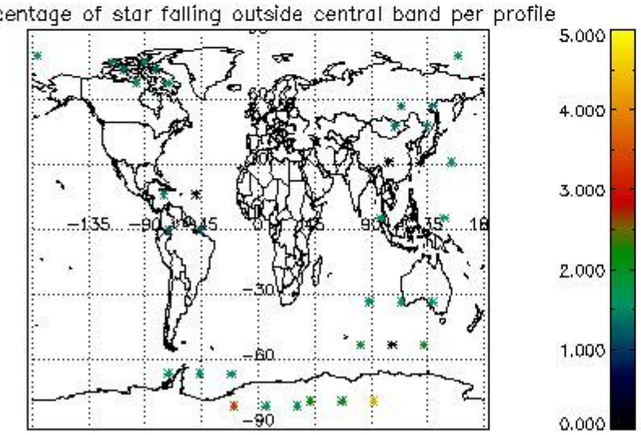
Percentage of cosmic ray hits per profile



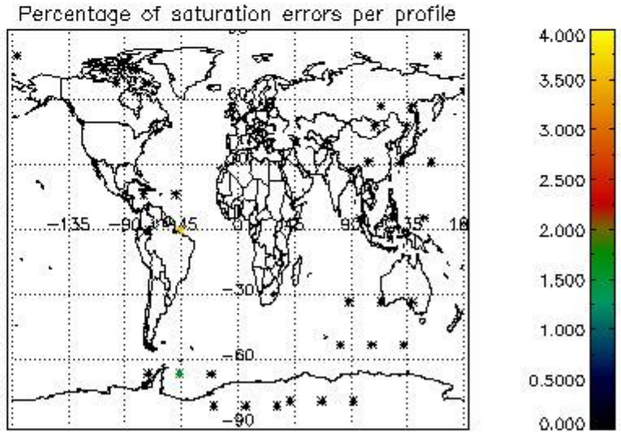
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



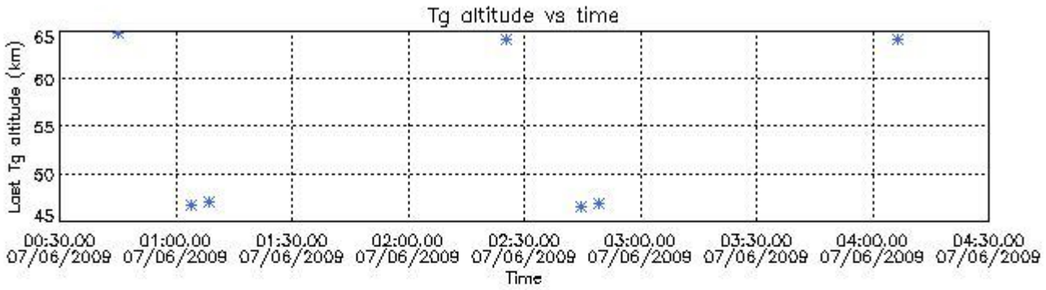
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

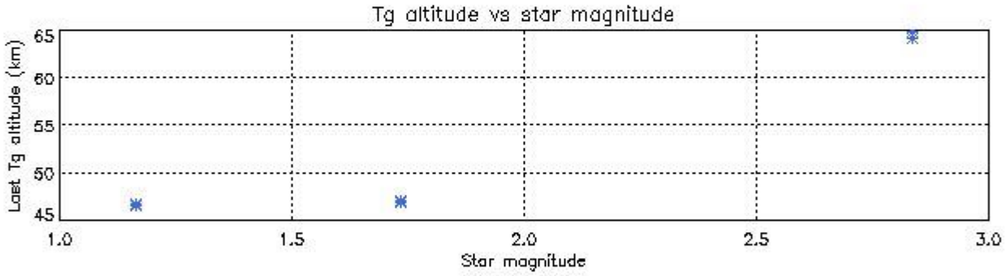
6.1 Statistics on tangent altitude lost:

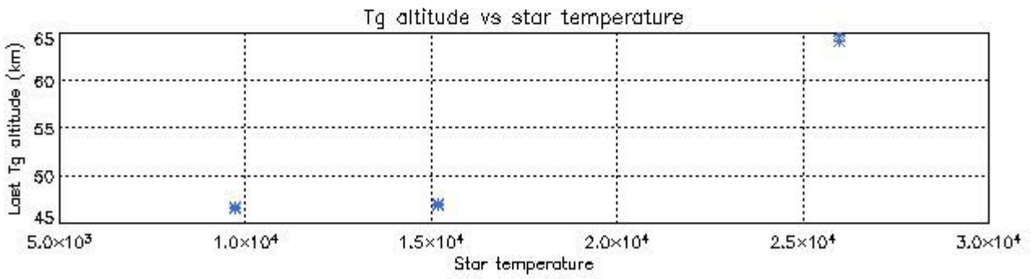
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	54.334	48.131	NaN
St. deviation:	9.3687	0.85046	NaN
Maximum:	64.761	49.675	NaN
Minimum:	46.593	46.647	NaN
Number of data:	7.0000	10.000	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

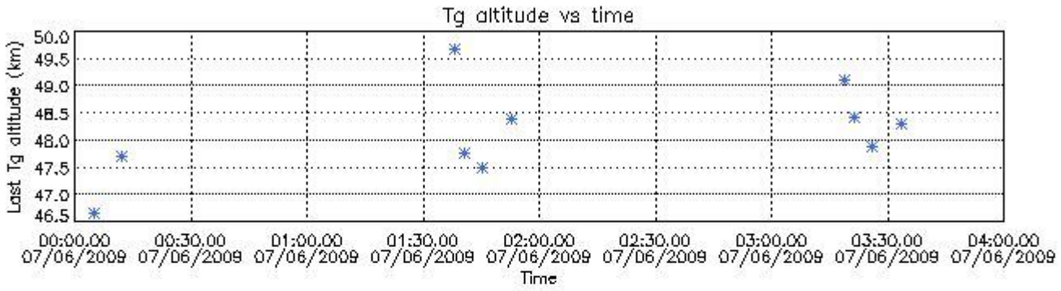


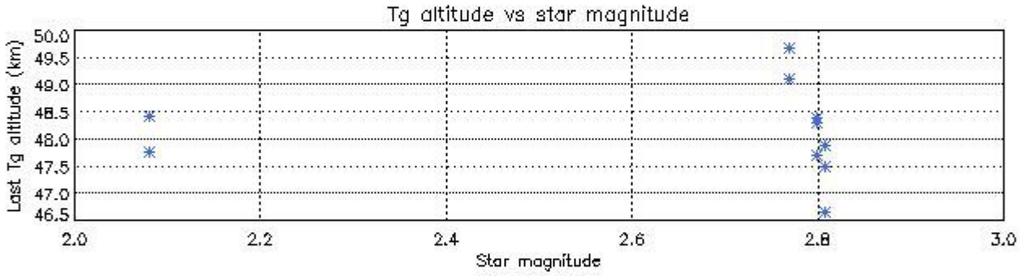


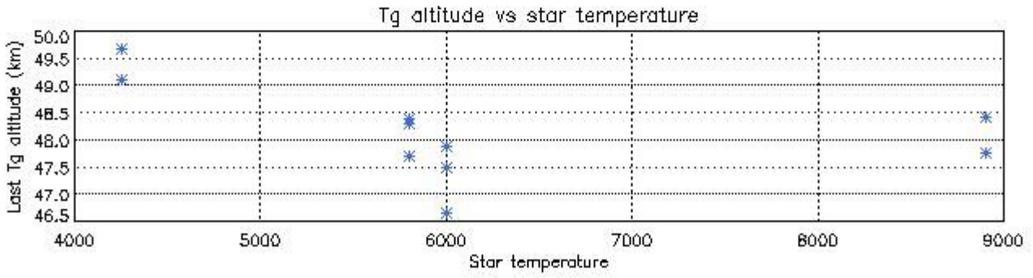


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost





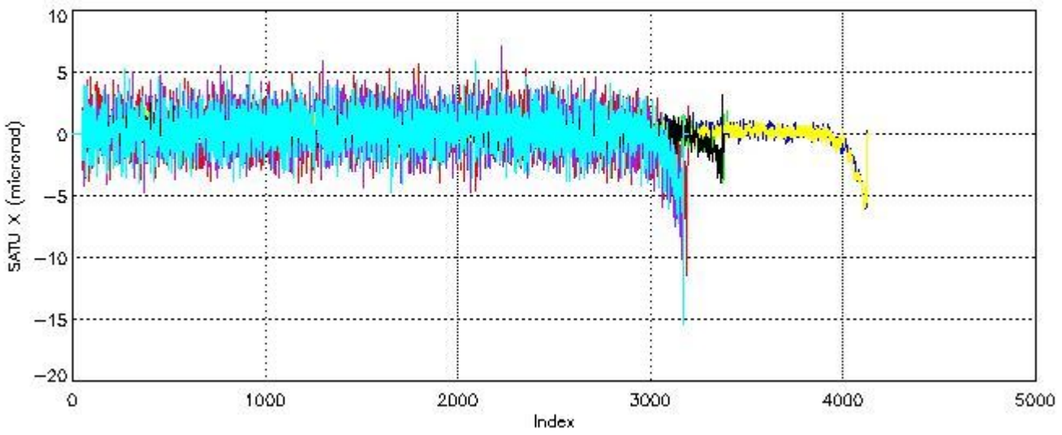


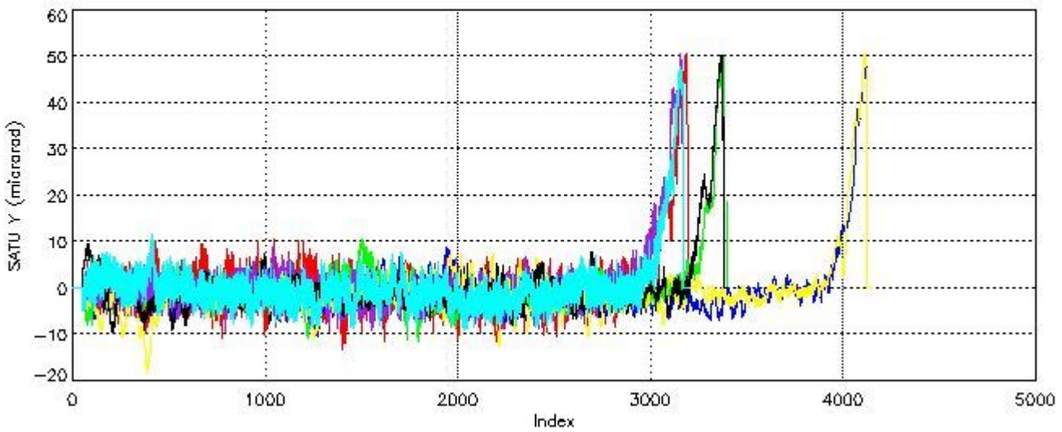
7. Star Acquisition and Tracking Unit (SATU)

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:	0.33074	-1.0509	0.40547	-1.4542
St. deviation:	0.93575	3.0907	0.82401	2.4874
Maximum:	5.5000	11.500	3.5000	11.600
Minimum:	-4.8000	-18.300	-3.2000	-13.500

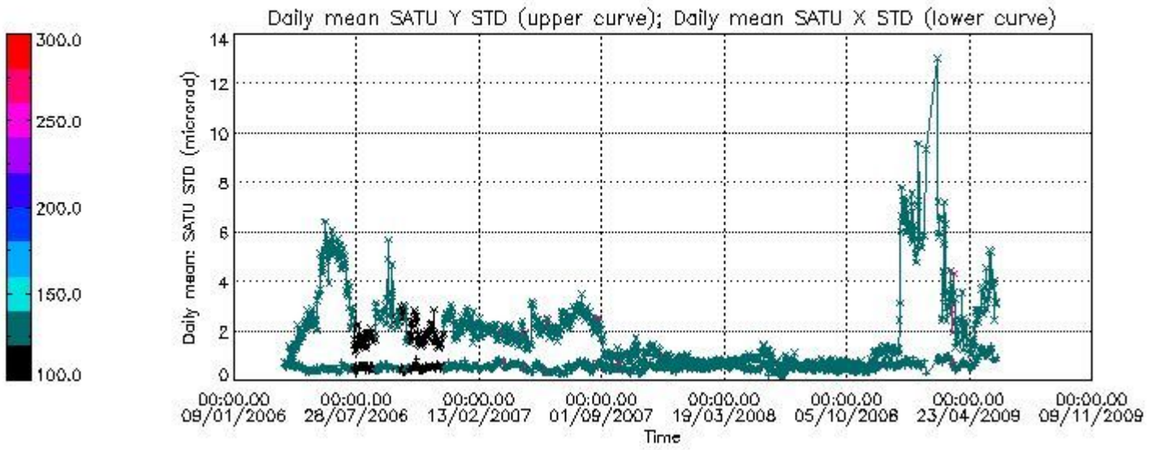
Number of data:	8900.0	8900.0	10500.	10500.

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.

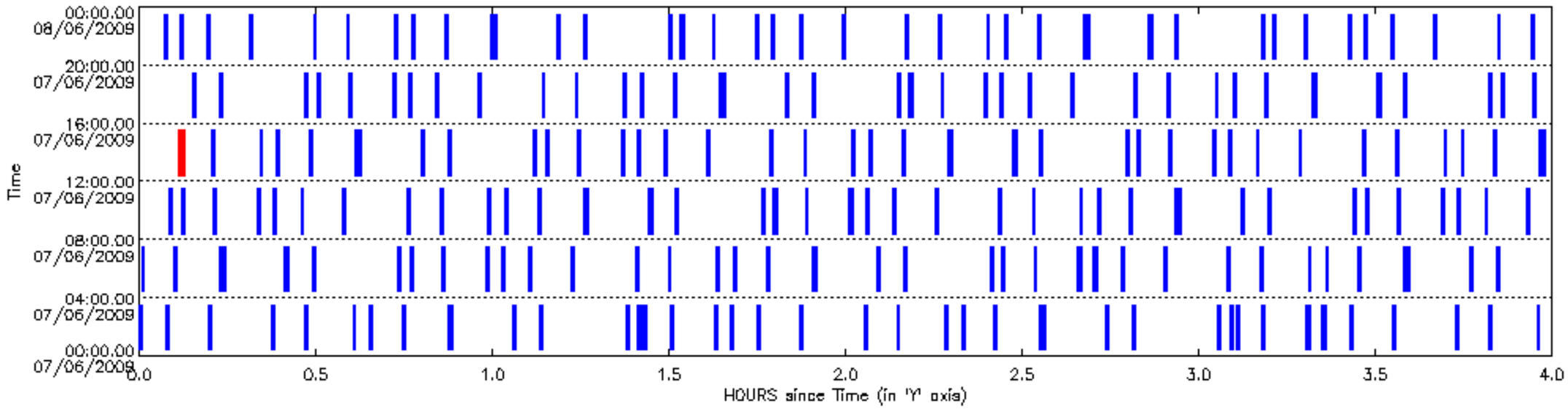
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

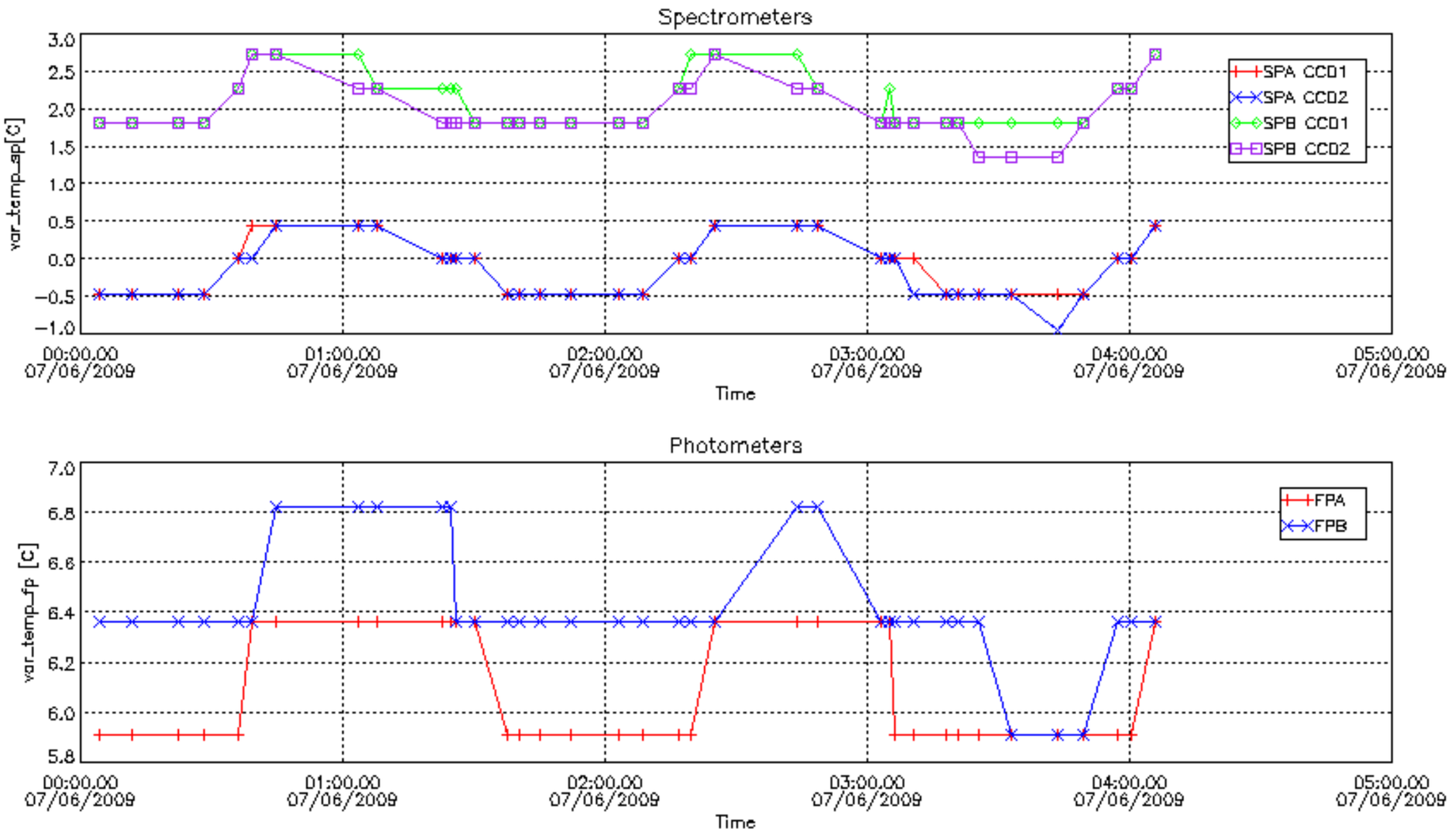


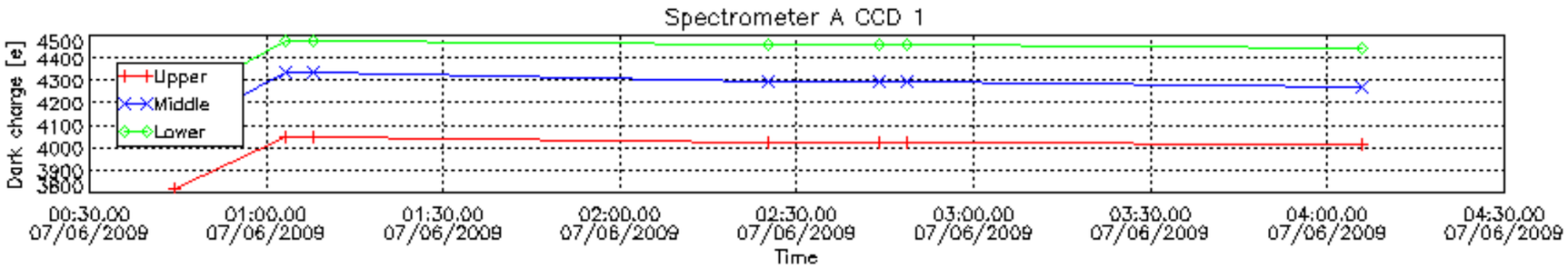
8. Auxiliary Data Files used for the production reported in section 2.4

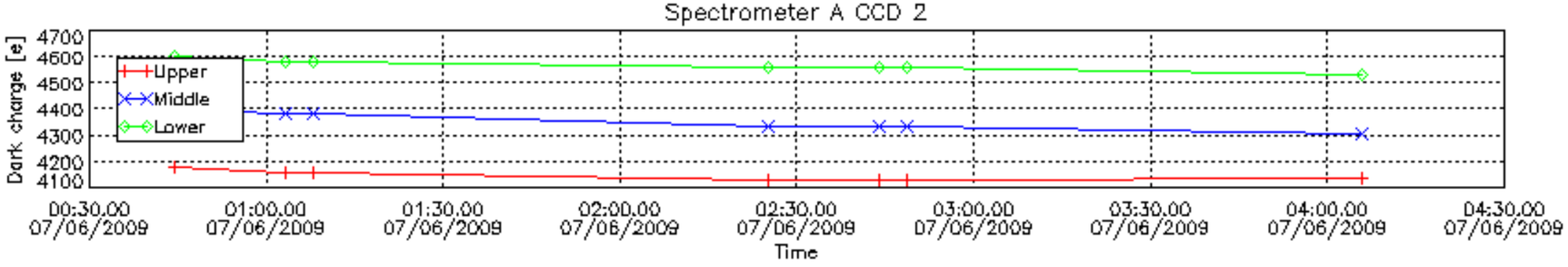
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

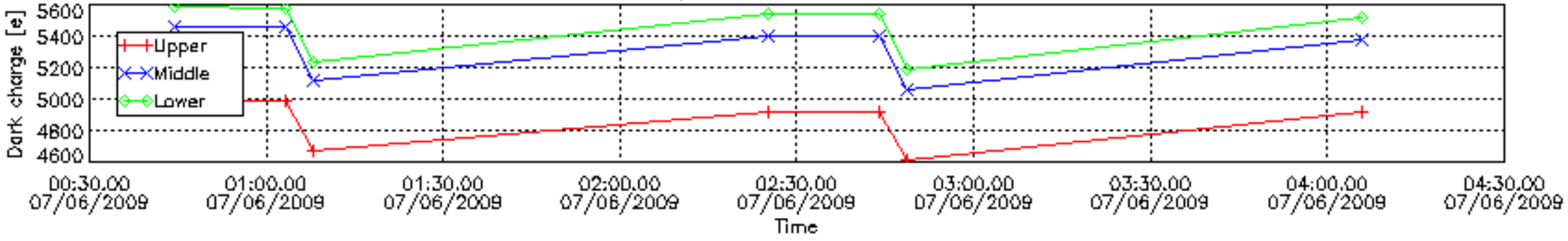
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	07-JUN-2009 00:04:23
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090526_074004_20090517_000000_20100101_000000	1	07-JUN-2009 00:04:23
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	07-JUN-2009 00:04:23
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-JUN-2009 00:04:23
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	07-JUN-2009 00:04:23
ECMWF_FILE	AUX_ECF_AXNECM20090606_064113_20090606_210000_20090607_090000	1	07-JUN-2009 00:04:23
ECMWF_FILE	AUX_ECF_AXNECM20090606_182114_20090607_030000_20090607_150000	34	07-JUN-2009 03:49:17
OPTIONAL_ECMWF_FILE	MISSING	1	07-JUN-2009 00:04:23
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090606_212353_000060572079_00372_38001_8099.N1	1	07-JUN-2009 00:04:23
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090606_231009_000057382079_00373_38002_8100.N1	8	07-JUN-2009 01:03:21
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090607_004547_000044632079_00374_38003_8101.N1	15	07-JUN-2009 01:40:19
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090606_231009_000057382079_00373_38002_8100.N1	16	07-JUN-2009 01:44:59
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090607_004547_000044632079_00374_38003_8101.N1	19	07-JUN-2009 02:08:41
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090607_020529_000054192079_00375_38004_8102.N1	34	07-JUN-2009 03:49:17

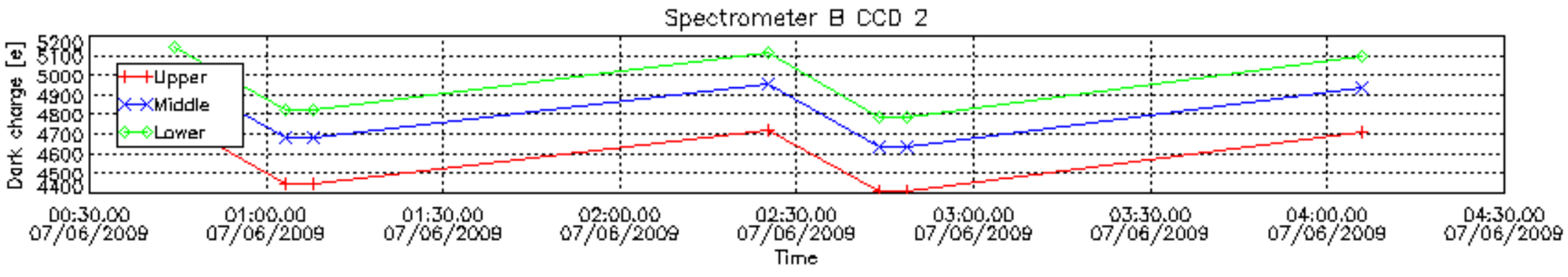

00:00.00
08/06/2009
20:00.00
07/06/2009
16:00.00
07/06/2009
12:00.00
07/06/2009
08:00.00
07/06/2009
04:00.00
07/06/2009
00:00.00
07/06/2009
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

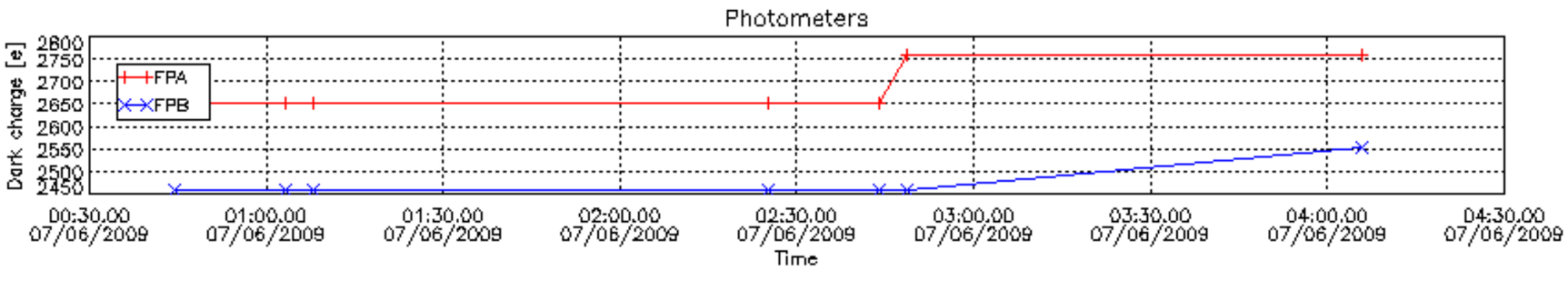

Spectrometers
var_temp_sp[C]
3.0
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
07/06/2009
01:00.00
07/06/2009
02:00.00
07/06/2009
03:00.00
07/06/2009
04:00.00
07/06/2009
05:00.00
07/06/2009
Time
Photometers
var_temp_fp [C]
7.0
6.8
6.6
6.4
6.2
6.0
5.8
FPA
FPB
00:00.00
07/06/2009
01:00.00
07/06/2009
02:00.00
07/06/2009
03:00.00
07/06/2009
04:00.00
07/06/2009
05:00.00
07/06/2009
Time

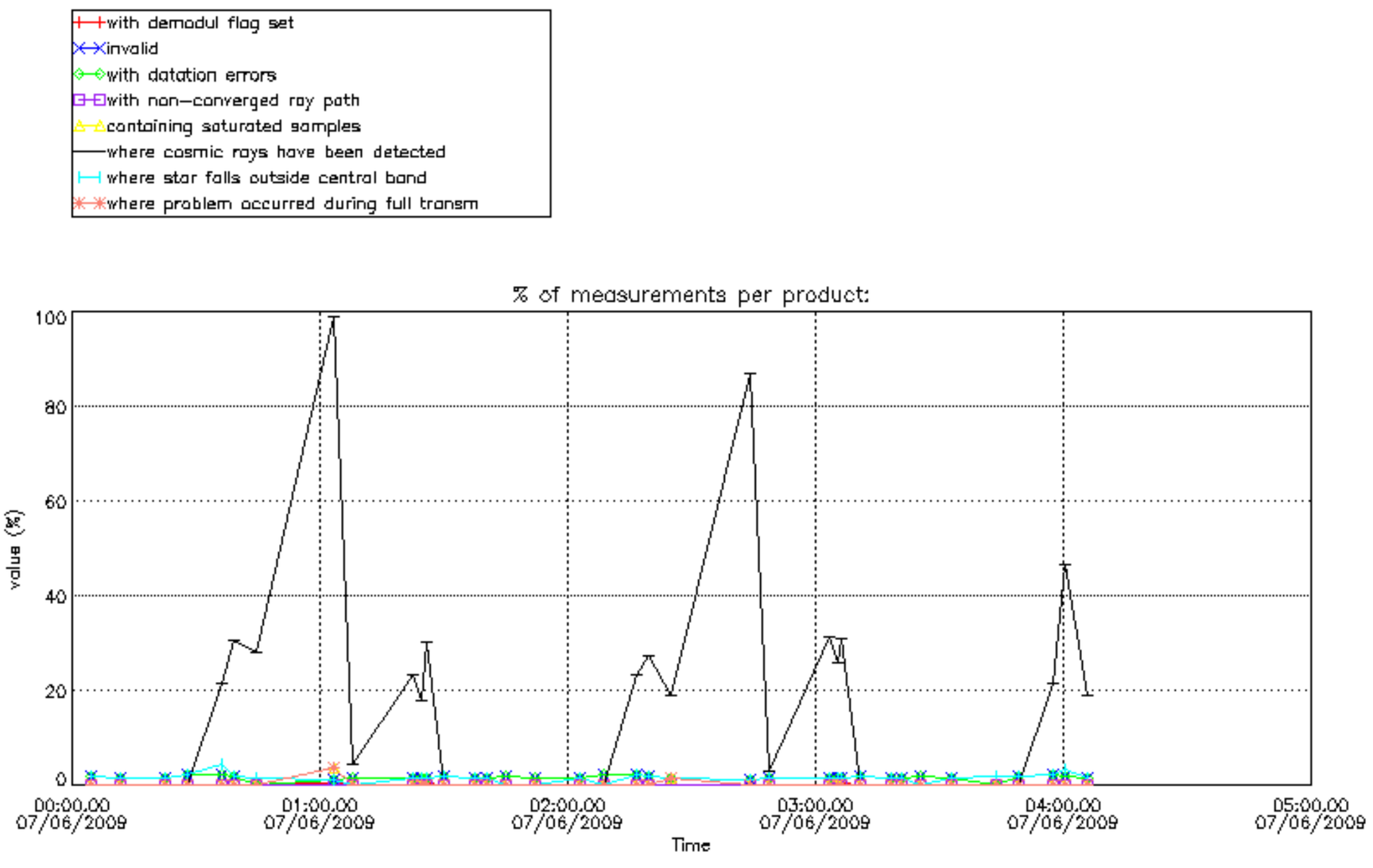

Spectrometer A CCD 1
Dark charge [e]
Upper
Middle
Lower
Time


Spectrometer A CCD 2
Dark charge [e]
Upper
Middle
Lower
Time

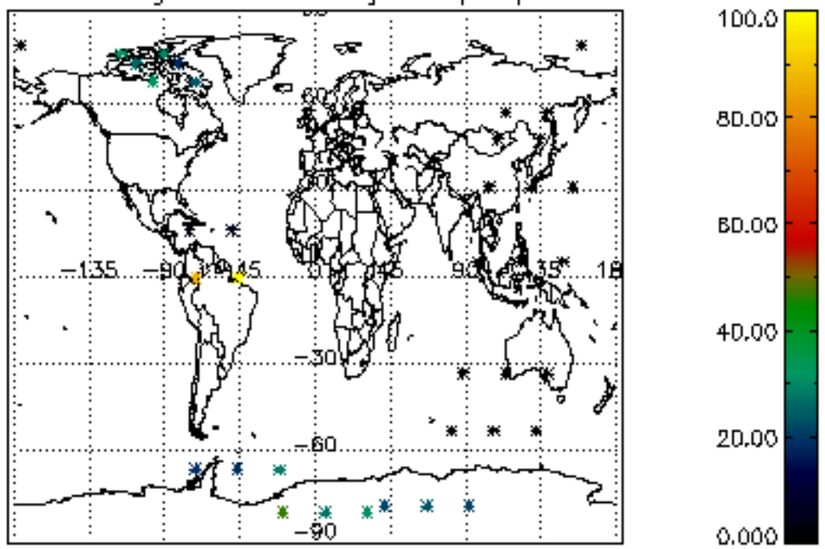

Spectrometer B CCD 1
Dark charge [e]
Upper
Middle
Lower
Time


Spectrometer B CCD 2
Dark charge [e]
Upper
Middle
Lower
Time

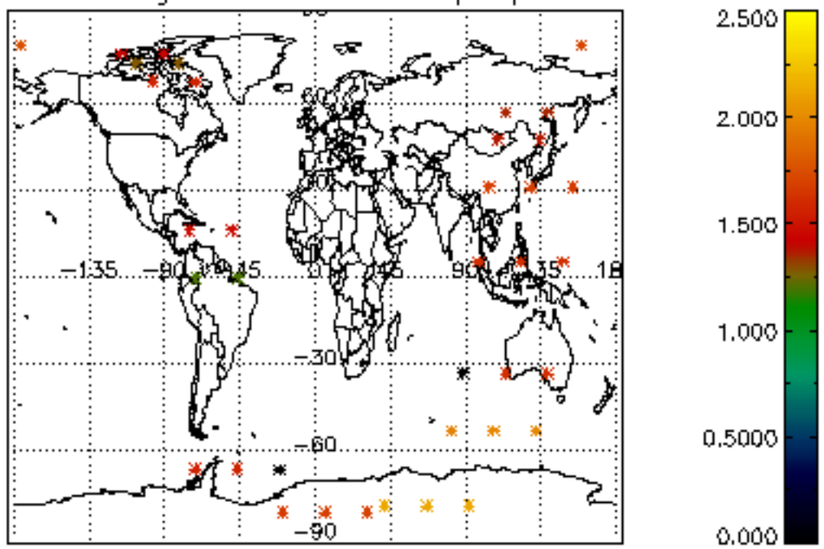

Photometers
Dark charge [e]
FPA
FPB
Time


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:
100
80
60
40
20
0
value (%)
00:00.00
07/06/2009
01:00.00
07/06/2009
02:00.00
07/06/2009
03:00.00
07/06/2009
04:00.00
07/06/2009
05:00.00
07/06/2009
Time

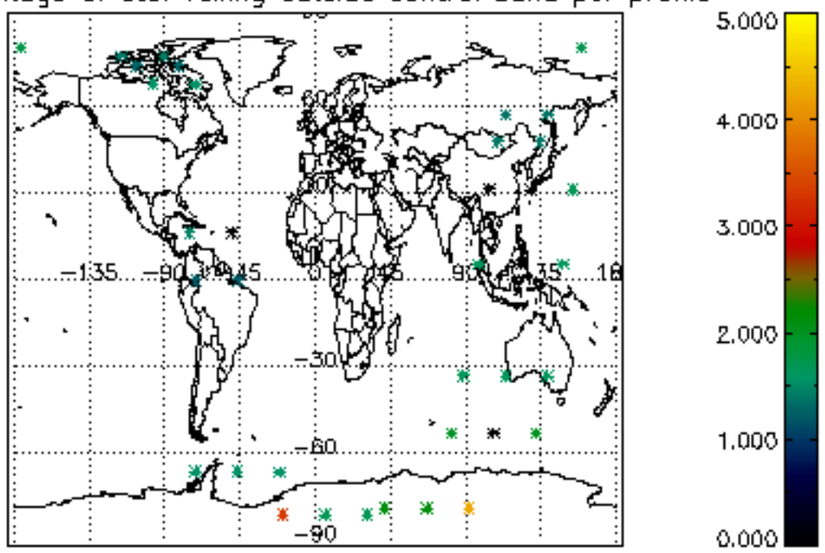
Percentage of cosmic ray hits per profile



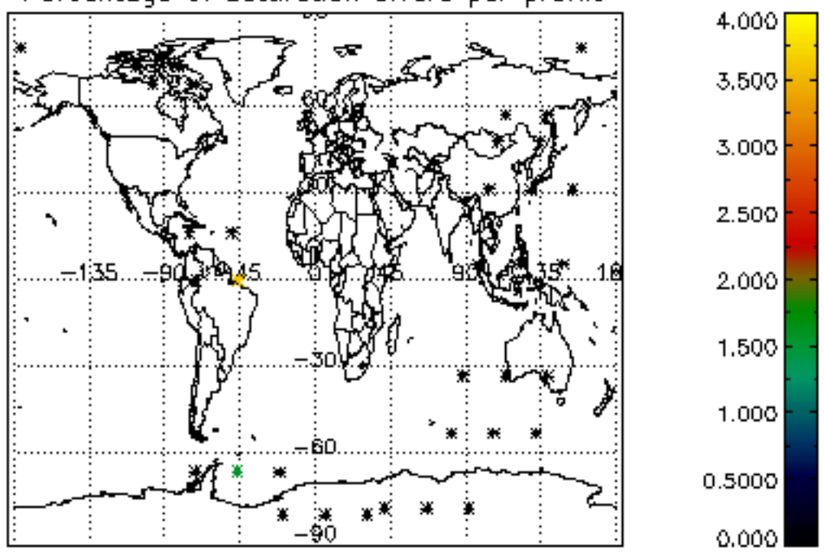
Percentage of datation errors per profile



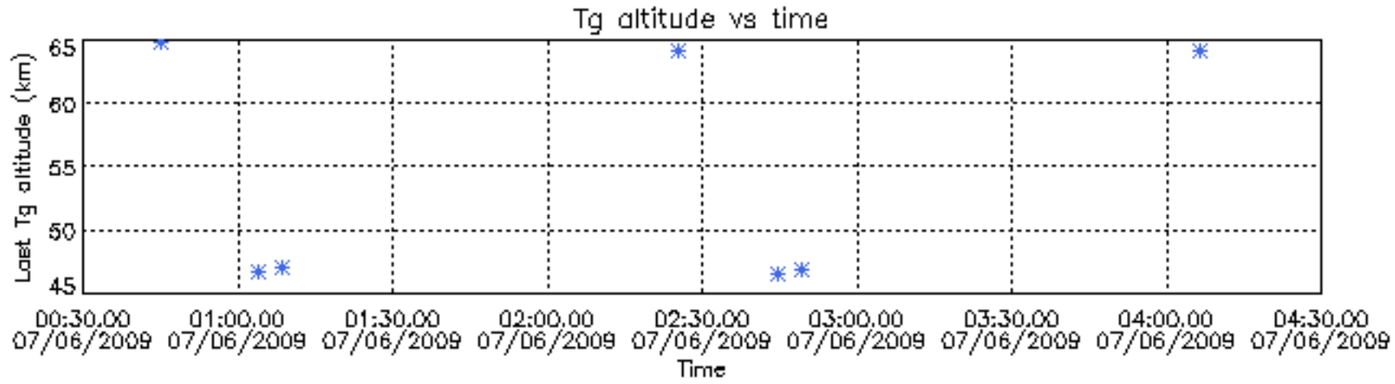
Percentage of star falling outside central band per profile

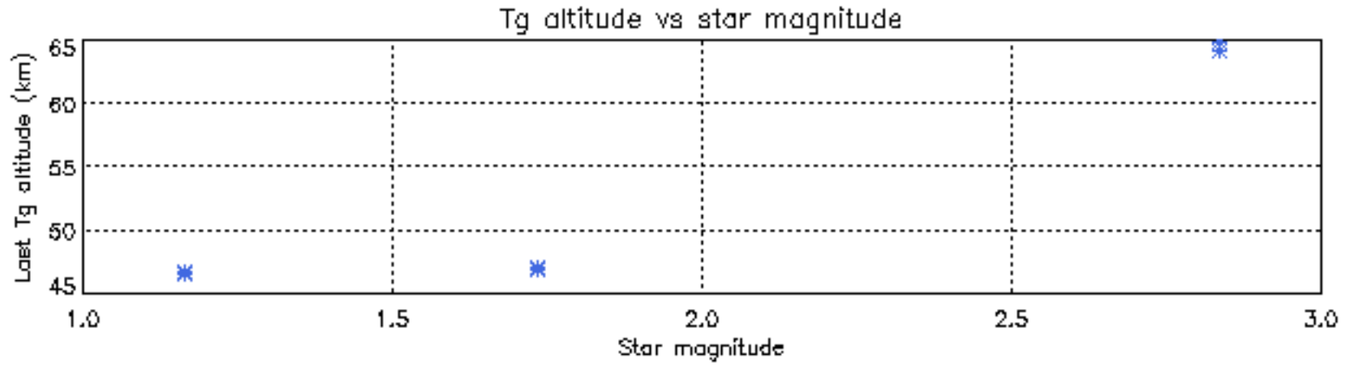


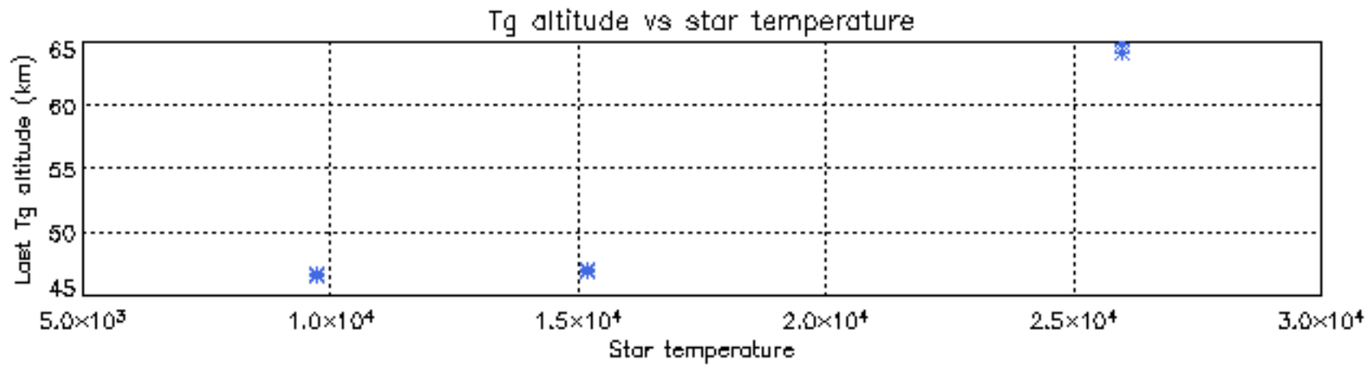
Percentage of saturation errors per profile



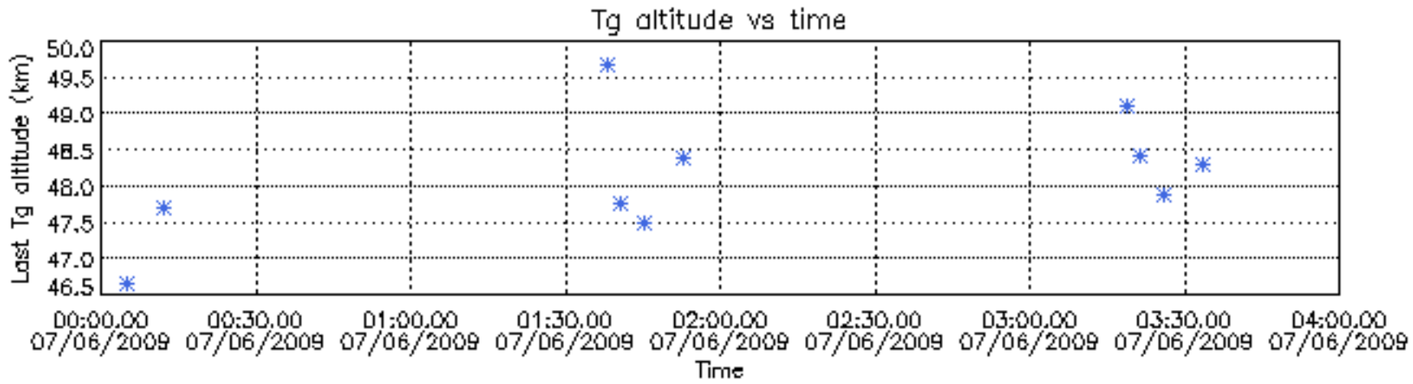
Tangent altitude at which the star is lost

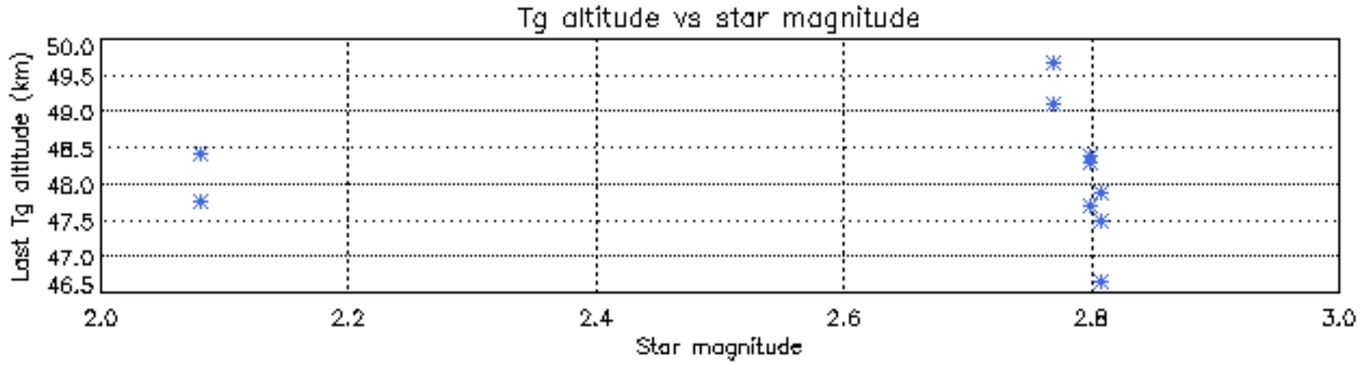


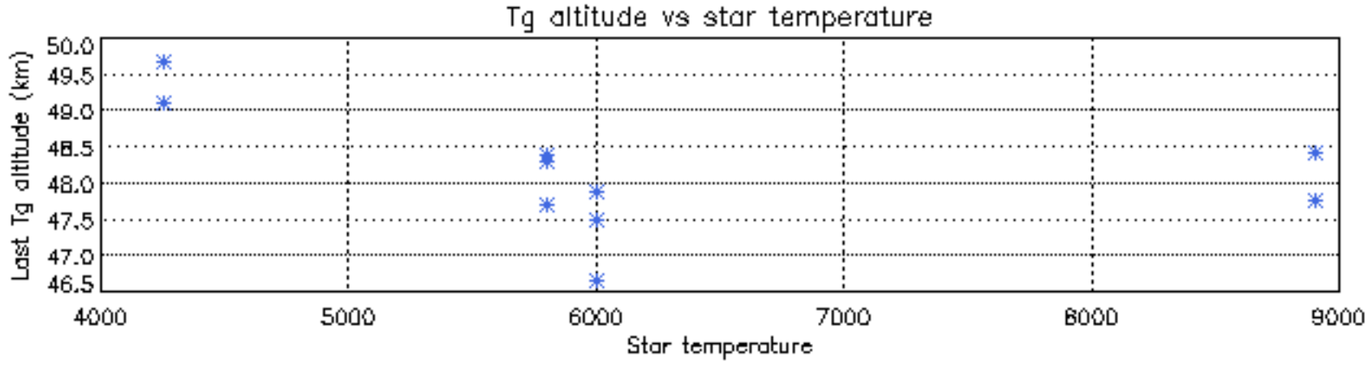


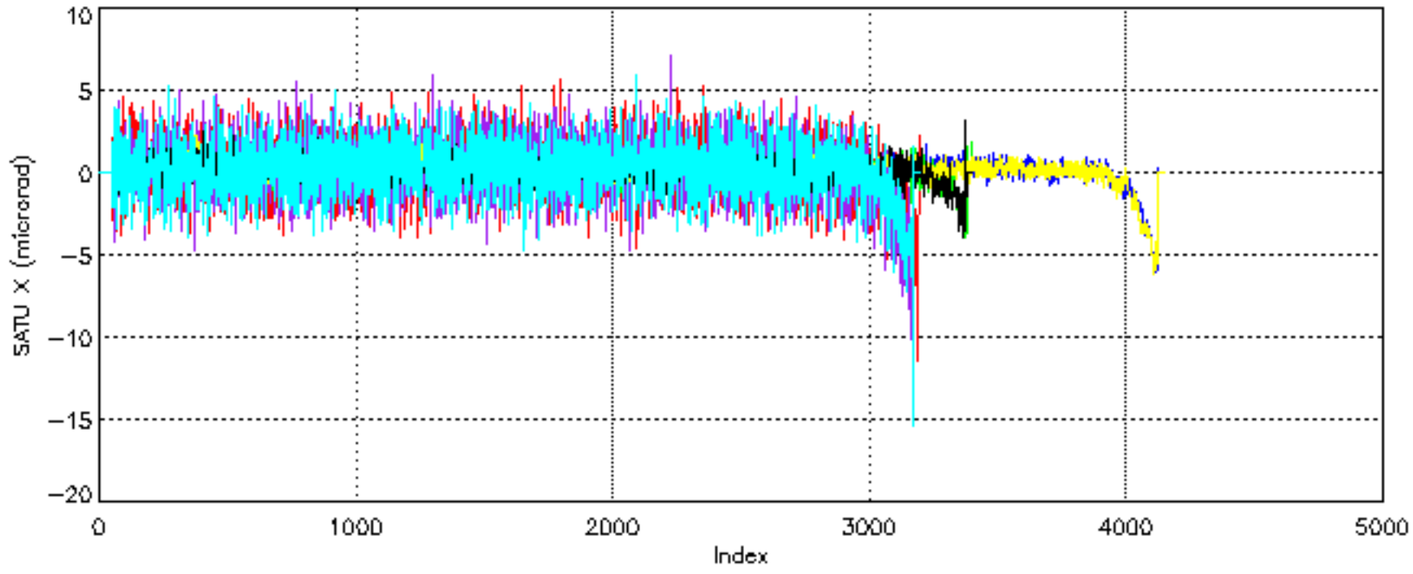


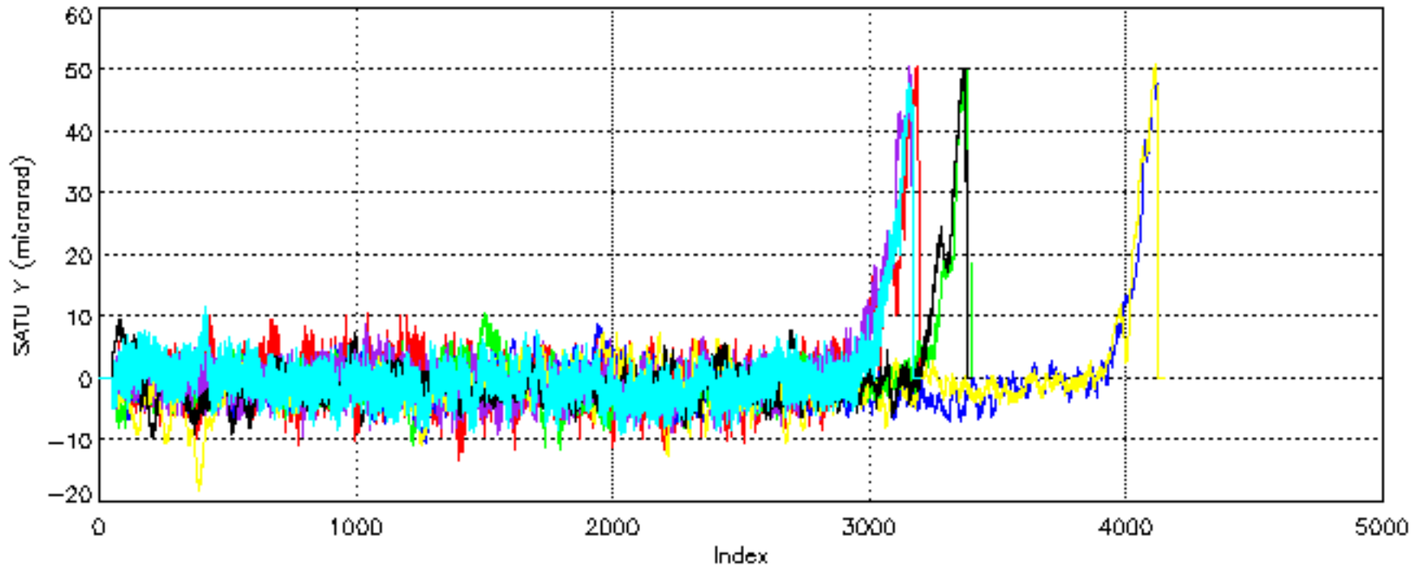
Tangent altitude at which the star is lost

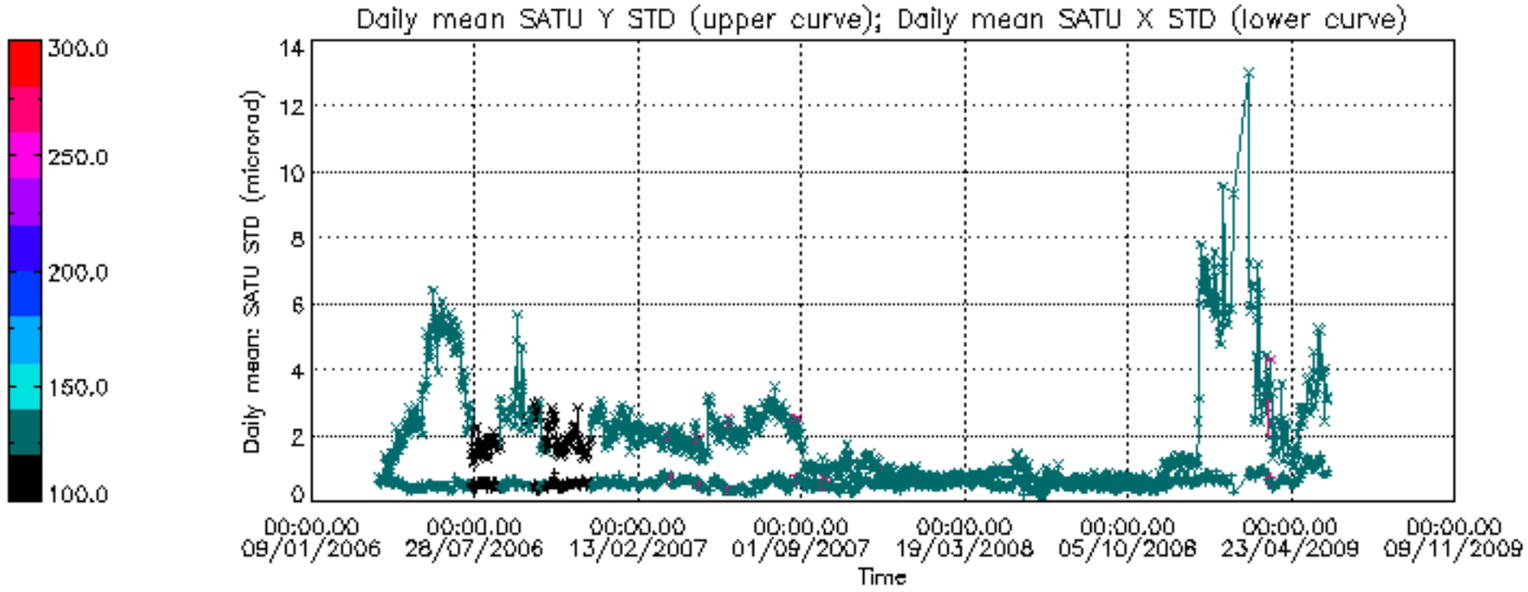







10
5
0
−5
−10
−15
−20
SATU X (microrad)
0
1000
2000
3000
4000
5000
Index


SATU Y (microrad)
60
50
40
30
20
10
0
−10
−20
0
1000
2000
3000
4000
5000
Index


300.0
250.0
200.0
150.0
100.0
Daily mean SATU Y STD (upper curve); Daily mean SATU X STD (lower curve)
Daily mean: SATU STD (microrad)
14
12
10
8
6
4
2
0
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
00:00.00 23/04/2009
00:00.00 09/11/2009
Time

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090601_004956_000050022079_00288_37917_7897.N1
1; -120.5; 01-JUN-2009 00:49:56; Dark ; 38.5; 18; 24Alp PsA ; 1.17; 9700;occ; 77; 0;37917
2; 190.7; 01-JUN-2009 00:55:07; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;37918
3; 1105.6; 01-JUN-2009 01:10:22; Dark ; 35.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 71; 0;37918
4; 1207.7; 01-JUN-2009 01:12:04; Dark ; 37.0; 116; 19Del Sgr ; 2.70; 4100;occ; 74; 0;37918
5; 1591.4; 01-JUN-2009 01:18:28; Bright; 32.0; 86; 35Eta Oph ; 2.43; 10200;occ; 64; 0;37918
6; 1702.8; 01-JUN-2009 01:20:19; Bright; 29.5; 98; 13Zet Oph ; 2.57; 30000;occ; 59; 0;37918
7; 2322.3; 01-JUN-2009 01:30:39; Bright; 32.0; 127; 27Bet Her ; 2.78; 4700;occ; 64; 0;37918
8; 2528.2; 01-JUN-2009 01:34:05; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;37918
9; 2976.6; 01-JUN-2009 01:41:33; Bright; 33.5; 130; 23Bet Dra ; 2.80; 5800;occ; 67; 0;37918
10; 3628.3; 01-JUN-2009 01:52:25; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;37918
11; 3933.5; 01-JUN-2009 01:57:30; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37918
12; 4556.4; 01-JUN-2009 02:07:53; Dark ; 27.5; 58; 21Alp And ; 2.07; 11000;occ; 55; 0;37918
13; 4853.3; 01-JUN-2009 02:12:50; Dark ; 28.5; 140; 88Gam Peg ; 2.83; 26000;occ; 57; 0;37918
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2; -119.7; 01-JUN-2009 02:30:33; Dark ; 39.0; 18; 24Alp PsA ; 1.17; 9700;occ; 78; 0;37918
3; 191.5; 01-JUN-2009 02:35:44; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;37919
4; 1106.4; 01-JUN-2009 02:50:59; Dark ; 35.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 70; 0;37919
5; 1208.2; 01-JUN-2009 02:52:40; Dark ; 37.0; 116; 19Del Sgr ; 2.70; 4100;occ; 74; 0;37919
6; 1591.1; 01-JUN-2009 02:59:03; Bright; 32.0; 86; 35Eta Oph ; 2.43; 10200;occ; 64; 0;37919
7; 1702.6; 01-JUN-2009 03:00:55; Bright; 30.0; 98; 13Zet Oph ; 2.57; 30000;occ; 60; 0;37919
8; 2322.2; 01-JUN-2009 03:11:14; Bright; 32.0; 127; 27Bet Her ; 2.78; 4700;occ; 64; 0;37919
9; 2528.0; 01-JUN-2009 03:14:40; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;37919
10; 2976.0; 01-JUN-2009 03:22:08; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;37919
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090601_033300_000060662079_00290_37919_7899.N1
1;-2408.1; 01-JUN-2009 03:33:00; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;37919
2;-2102.5; 01-JUN-2009 03:38:06; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37919
3;-1479.4; 01-JUN-2009 03:48:29; Dark ; 27.5; 58; 21Alp And ; 2.07; 11000;occ; 55; 0;37919
4;-1182.0; 01-JUN-2009 03:53:26; Dark ; 29.5; 140; 88Gam Peg ; 2.83; 26000;occ; 59; 0;37919
5; -752.4; 01-JUN-2009 04:00:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37919
6; -118.3; 01-JUN-2009 04:11:10; Dark ; 39.0; 18; 24Alp PsA ; 1.17; 9700;occ; 78; 0;37919
7; 192.7; 01-JUN-2009 04:16:21; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;37920
8; 1107.0; 01-JUN-2009 04:31:35; Dark ; 35.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 70; 0;37920
9; 1208.7; 01-JUN-2009 04:33:17; Dark ; 37.0; 116; 19Del Sgr ; 2.70; 4100;occ; 74; 0;37920
10; 1591.3; 01-JUN-2009 04:39:40; Bright; 32.0; 86; 35Eta Oph ; 2.43; 10200;occ; 64; 0;37920
11; 1702.9; 01-JUN-2009 04:41:31; Bright; 29.5; 98; 13Zet Oph ; 2.57; 30000;occ; 59; 0;37920
12; 2321.8; 01-JUN-2009 04:51:50; Bright; 32.0; 127; 27Bet Her ; 2.78; 4700;occ; 64; 0;37920
13; 2527.1; 01-JUN-2009 04:55:15; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;37920
14; 2975.2; 01-JUN-2009 05:02:43; Bright; 33.5; 130; 23Bet Dra ; 2.80; 5800;occ; 67; 0;37920
15; 3627.3; 01-JUN-2009 05:13:35; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37920
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2;-2102.6; 01-JUN-2009 05:18:42; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37920
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4;-1181.8; 01-JUN-2009 05:34:02; Dark ; 29.5; 140; 88Gam Peg ; 2.83; 26000;occ; 59; 0;37920
5; -751.5; 01-JUN-2009 05:41:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37920
6; -117.1; 01-JUN-2009 05:51:47; Dark ; 39.0; 18; 24Alp PsA ; 1.17; 9700;occ; 78; 0;37920
7; 193.2; 01-JUN-2009 05:56:57; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;37921
8; 1107.4; 01-JUN-2009 06:12:12; Dark ; 35.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 70; 0;37921
9; 1209.3; 01-JUN-2009 06:13:54; Dark ; 36.5; 116; 19Del Sgr ; 2.70; 4100;occ; 73; 0;37921
10; 1591.5; 01-JUN-2009 06:20:16; Bright; 32.0; 86; 35Eta Oph ; 2.43; 10200;occ; 64; 0;37921
11; 1703.0; 01-JUN-2009 06:22:07; Bright; 29.5; 98; 13Zet Oph ; 2.57; 30000;occ; 59; 0;37921
12; 2321.2; 01-JUN-2009 06:32:25; Bright; 32.0; 127; 27Bet Her ; 2.78; 4700;occ; 64; 0;37921
13; 2526.5; 01-JUN-2009 06:35:51; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;37921
14; 2974.6; 01-JUN-2009 06:43:19; Bright; 33.5; 130; 23Bet Dra ; 2.80; 5800;occ; 67; 0;37921
15; 3626.7; 01-JUN-2009 06:54:11; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37921
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2; 1213.4; 01-JUN-2009 19:38:45; Dark ; 36.0; 116; 19Del Sgr ; 2.70; 4100;occ; 72; 0;37929
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   8; 3568.2; 07-JUN-2009 20:29:30; Bright; 31.0;   89; 5Alp Cep ; 2.45; 8000;occ; 62;   0;38015
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  10; 2919.2; 07-JUN-2009 21:59:17; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62;   0;38016

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   9; 4576.4; 07-JUN-2009 14:03:54; Dark  ;  30.0;   58; 21Alp And  ; 2.07; 11000;occ;  60;   0;38011
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   5; 1277.9; 08-JUN-2009 02:33:43; Dark  ;  38.0;   57; 34Sig Sgr  ; 2.07; 26000;occ;  76;   0;38019
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   9; 1278.7; 08-JUN-2009 05:54:56; Dark ; 38.0;   57; 34Sig Sgr ; 2.07; 26000;occ; 76;   0;38021
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   4; 2198.3; 08-JUN-2009 21:15:39; Bright; 35.0;   59; 55Alp Oph ; 2.08; 8900;occ; 70;   0;38030
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   3; 180.0; 09-JUN-2009 00:03:13; Dark ; 33.0;   63;   Bet Gru ; 2.15; 2800;occ; 66;   0;38032
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   6; 3540.2; 10-JUN-2009 20:34:47; Bright; 31.0;   89; 5Alp Cep ; 2.45; 8000;occ; 62;   0;38058
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   3;   77.4; 10-JUN-2009 21:17:40; Dark ; 44.0;   18; 24Alp PsA ; 1.17; 9700;occ; 88;   0;38059
   4; 205.1; 10-JUN-2009 21:19:48; Dark ; 33.5;   63;   Bet Gru ; 2.15; 2800;occ; 67;   0;38059
   5; 326.3; 10-JUN-2009 21:21:49; Dark ; 34.5;   31;   Alp Gru ; 1.73; 15200;occ; 69;   0;38059
   6; 1176.6; 10-JUN-2009 21:36:00; Dark ; 31.0;   38; 20Eps Sgr ; 1.84; 11000;occ; 62;   0;38059
   7; 1295.9; 10-JUN-2009 21:37:59; Dark ; 36.5;   57; 34Sig Sgr ; 2.07; 26000;occ; 73;   0;38059
   8; 2027.4; 10-JUN-2009 21:50:10; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69;   0;38059
   9; 2184.3; 10-JUN-2009 21:52:47; Bright; 34.0;   59; 55Alp Oph ; 2.08; 8900;occ; 68;   0;38059
  10; 2897.7; 10-JUN-2009 22:04:41; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61;   0;38059
  11; 3539.4; 10-JUN-2009 22:15:22; Bright; 31.0;   89; 5Alp Cep ; 2.45; 8000;occ; 62;   0;38059
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  13; 4406.4; 10-JUN-2009 22:29:49; Dark ; 24.5;   53; 43Bet And ; 2.05; 3300;occ; 49;   0;38059
  14; 5383.6; 10-JUN-2009 22:46:07; Dark ; 13.5;   0;   ; 0.00;   0;occ; 27;   0;38059
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   3;   79.0; 10-JUN-2009 22:58:18; Dark ; 44.0;   18; 24Alp PsA ; 1.17; 9700;occ; 88;   0;38060
   4; 205.9; 10-JUN-2009 23:00:25; Dark ; 34.0;   63;   Bet Gru ; 2.15; 2800;occ; 68;   0;38060
   5; 327.4; 10-JUN-2009 23:02:26; Dark ; 34.5;   31;   Alp Gru ; 1.73; 15200;occ; 69;   0;38060
   6; 417.0; 10-JUN-2009 23:03:56; Dark ; 42.5; 172;   Gam Gru ; 3.00; 13100;occ; 85;   0;38060
   7; 1176.9; 10-JUN-2009 23:16:36; Dark ; 31.0;   38; 20Eps Sgr ; 1.84; 11000;occ; 62;   0;38060
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   9; 2027.3; 10-JUN-2009 23:30:46; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68;   0;38060
  10; 2184.0; 10-JUN-2009 23:33:23; Bright; 34.0;   59; 55Alp Oph ; 2.08; 8900;occ; 68;   0;38060
  11; 2897.2; 10-JUN-2009 23:45:16; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61;   0;38060
  12; 3539.0; 10-JUN-2009 23:55:58; Bright; 31.5;   89; 5Alp Cep ; 2.45; 8000;occ; 63;   0;38060
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  14; 4406.3; 11-JUN-2009 00:10:25; Dark ; 24.5;   53; 43Bet And ; 2.05; 3300;occ; 49;   0;38060
  15; 5384.5; 11-JUN-2009 00:26:43; Dark ;   6.5;   0;   ; 0.00;   0;occ; 13;   0;38060
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   3; 2901.7; 10-JUN-2009 08:39:57; Bright;  30.5;  130; 23Bet Dra  ; 2.80;  5800;occ;  61;   0;38051
   4; 3544.6; 10-JUN-2009 08:50:40; Bright;  31.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  63;   0;38051
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   9; 6234.5; 10-JUN-2009 09:35:30; Dark  ;  33.5;   63;   Bet Gru  ; 2.15;  2800;occ;  67;   0;38051
  10; 6355.2; 10-JUN-2009 09:37:31; Dark  ;  34.5;   31;   Alp Gru  ; 1.73; 15200;occ;  69;   0;38051
  11; 7209.7; 10-JUN-2009 09:51:45; Dark  ;  31.0;   38; 20Eps Sgr  ; 1.84; 11000;occ;  62;   0;38051
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   3; 2901.3; 10-JUN-2009 10:20:33; Bright;  30.5;  130; 23Bet Dra  ; 2.80;  5800;occ;  61;   0;38052
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   8; 5490.3; 10-JUN-2009 11:03:42; Dark  ;  30.5;   52; 16Bet Cet  ; 2.04;  4500;occ;  61;   0;38052
   9; 6104.0; 10-JUN-2009 11:13:55; Dark  ;  43.5;   18; 24Alp PsA  ; 1.17;  9700;occ;  87;   0;38052
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  12; 7209.9; 10-JUN-2009 11:32:21; Dark  ;  31.0;   38; 20Eps Sgr  ; 1.84; 11000;occ;  62;   0;38052
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   8; 6105.5; 10-JUN-2009 12:54:33; Dark  ;  44.0;   18; 24Alp PsA  ; 1.17;  9700;occ;  88;   0;38053
   9; 6236.4; 10-JUN-2009 12:56:44; Dark  ;  33.5;   63;   Bet Gru  ; 2.15;  2800;occ;  67;   0;38053
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  11; 2891.3; 11-JUN-2009 23:13:33; Bright;  30.0;  130; 23Bet Dra  ; 2.80;  5800;occ;  60;   0;38074
  12; 3529.7; 11-JUN-2009 23:24:12; Bright;  31.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  63;   0;38074
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   5; 3897.4; 11-JUN-2009 13:26:44; Bright;  26.0;   74; 11Bet Cas  ; 2.27;  6600;occ;  52;   0;38068
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   8; 5504.3; 11-JUN-2009 13:53:31; Dark  ;  31.5;   52; 16Bet Cet  ; 2.04;  4500;occ;  63;   0;38068
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  11; 6372.2; 11-JUN-2009 14:07:58; Dark  ;  34.5;   31;   Alp Gru  ; 1.73; 15200;occ;  69;   0;38068
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  13; 7216.8; 11-JUN-2009 14:22:03; Dark  ;  30.5;   38; 20Eps Sgr  ; 1.84; 11000;occ;  61;   0;38068
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   2; 2180.6; 11-JUN-2009 14:38:43; Bright;  33.0;   59; 55Alp Oph  ; 2.08;  8900;occ;  66;   0;38069
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   9; 6130.8; 11-JUN-2009 15:44:33; Dark  ;  44.5;   18; 24Alp PsA  ; 1.17;  9700;occ;  89;   0;38069
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   7; 4407.4; 11-JUN-2009 16:56:25; Dark  ;  24.5;   53; 43Bet And  ; 2.05;  3300;occ;  49;   0;38070
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   5; 553.2; 18-JUN-2009 00:26:41; Dark ; 42.5; 172;   Gam Gru ; 3.00; 13100;occ; 85;   0;38161
   6; 1249.5; 18-JUN-2009 00:38:17; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66;   0;38161
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   9; 2134.1; 22-JUN-2009 22:14:57; Bright; 28.5;   59; 55Alp Oph ; 2.08; 8900;occ; 57;   0;38231
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   3; 2448.1; 22-JUN-2009 07:14:48; Bright; 26.0; 133; 40Zet Her ; 2.81; 6000;occ; 52;   0;38222
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   6; 4065.1; 22-JUN-2009 07:41:44; Bright; 21.0; 160; 23Gam Per ; 2.93; 4700;occ; 42;   0;38222
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   9; 4643.4; 22-JUN-2009 07:51:23; Dark ; 24.0;   50; 13Alp Ari ; 2.01; 4250;occ; 48;   0;38222
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  14; 6716.9; 22-JUN-2009 08:25:56; Dark ; 28.5;   45;   Alp Pav ; 1.94; 26000;occ; 57;   0;38222
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   7; 4643.6; 22-JUN-2009 09:31:59; Dark ; 24.0;   50; 13Alp Ari ; 2.01; 4250;occ; 48;   0;38223
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  12; 7274.6; 22-JUN-2009 10:15:50; Dark ; 27.5;   38; 20Eps Sgr ; 1.84; 11000;occ; 55;   0;38223
  13; 7360.3; 22-JUN-2009 10:17:16; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56;   0;38223
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   6; 4414.8; 22-JUN-2009 11:08:46; Dark ; 23.0; 173; 4Bet Tri ; 3.00; 8900;occ; 46;   0;38224
   7; 4643.6; 22-JUN-2009 11:12:35; Dark ; 24.0;   50; 13Alp Ari ; 2.01; 4250;occ; 48;   0;38224
   8; 5409.7; 22-JUN-2009 11:25:21; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;38224
   9; 6016.4; 22-JUN-2009 11:35:28; Dark ; 32.0;   84;   Alp Phe ; 2.40; 4500;occ; 64;   0;38224
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   9; 6018.4; 22-JUN-2009 14:56:41; Dark ; 32.0;   84;   Alp Phe ; 2.40; 4500;occ; 64;   0;38226
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   8; 4270.9; 22-JUN-2009 16:08:10; Bright; 23.0;   73; 57Gam1And ; 2.26; 13100;occ; 46;   0;38227
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  14; 6528.3; 22-JUN-2009 16:45:47; Dark ; 34.5;   31;   Alp Gru ; 1.73; 15200;occ; 69;   0;38227
  15; 6719.6; 22-JUN-2009 16:48:58; Dark ; 28.5;   45;   Alp Pav ; 1.94; 26000;occ; 57;   0;38227
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  13; 4267.7; 29-JUN-2009 22:30:23; Bright;  36.0;   73; 57Gam1And  ; 2.26; 13100;occ;  72;   0;38331
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   9; 4423.7; 29-JUN-2009 15:50:35; Dark  ;  37.0;  173;  4Bet Tri  ; 3.00;  8900;occ;  74;   0;38327
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   7; 3894.8; 29-JUN-2009 19:02:58; Bright;  41.0;   68; 18Alp Cas  ; 2.22;  4500;occ;  82;   0;38329
   8; 4267.8; 29-JUN-2009 19:09:11; Bright;  37.0;   73; 57Gam1And  ; 2.26; 13100;occ;  74;   0;38329
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  10; 4674.1; 29-JUN-2009 19:15:58; Dark  ;  38.5;   50; 13Alp Ari  ; 2.01;  4250;occ;  77;   0;38329
  11; 5487.9; 29-JUN-2009 19:29:31; Dark  ;  59.0;    0;            ; 0.00;     0;occ; 118;   0;38329
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   3;  473.2; 30-JUN-2009 00:48:20; Dark  ;  66.0;   63;   Bet Gru  ; 2.15;  2800;occ; 132;   0;38333
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   5;  761.2; 30-JUN-2009 00:53:08; Dark  ;  57.5;  172;   Gam Gru  ; 3.00; 13100;occ; 115;   0;38333
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   7; 2239.9; 30-JUN-2009 01:17:47; Bright;  48.0;  168; 17Zet Aql  ; 2.99; 11000;occ;  96;   0;38333
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  13; 4267.5; 30-JUN-2009 01:51:35; Bright;  38.5;   73; 57Gam1And  ; 2.26; 13100;occ;  77;   0;38333
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   5;  762.6; 30-JUN-2009 02:33:46; Dark  ;  61.0;  172;   Gam Gru  ; 3.00; 13100;occ; 122;   0;38334
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  12; 2238.2; 30-JUN-2009 06:19:33; Bright;  50.5;  168; 17Zet Aql  ; 2.99; 11000;occ; 101;   0;38336
  13; 2657.3; 30-JUN-2009 06:26:32; Bright;  47.5;    5;  3Alp Lyr  ; 0.03; 11000;occ;  95;   0;38336
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   6; 3786.0; 30-JUN-2009 21:50:44; Bright;  41.0;   74; 11Bet Cas  ; 2.27;  6600;occ;  82;   0;38345
   7; 3887.5; 30-JUN-2009 21:52:26; Bright;  40.0;   68; 18Alp Cas  ; 2.22;  4500;occ;  80;   0;38345
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   9; 4424.7; 30-JUN-2009 22:01:23; Dark  ;  36.0;  173;  4Bet Tri  ; 3.00;  8900;occ;  72;   0;38345
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   6; 2231.9; 01-JUL-2009 00:46:02; Bright; 72.0; 168; 17Zet Aql ; 2.99; 11000;occ; 144;   0;38347
   7; 2651.7; 01-JUL-2009 00:53:02; Bright; 41.0;   5; 3Alp Lyr ; 0.03; 11000;occ; 82;   0;38347
   8; 2922.6; 01-JUL-2009 00:57:33; Bright; 50.0; 144; 18Del Cyg ; 2.86; 11000;occ; 100;   0;38347
   9; 3343.6; 01-JUL-2009 01:04:34; Bright; 43.5;   89; 5Alp Cep ; 2.45; 8000;occ; 87;   0;38347
  10; 3785.1; 01-JUL-2009 01:11:55; Bright; 41.5;   74; 11Bet Cas ; 2.27; 6600;occ; 83;   0;38347
  11; 3886.9; 01-JUL-2009 01:13:37; Bright; 40.0;   68; 18Alp Cas ; 2.22; 4500;occ; 80;   0;38347
  12; 4266.8; 01-JUL-2009 01:19:57; Bright; 36.0;   73; 57Gam1And ; 2.26; 13100;occ; 72;   0;38347
  13; 4424.9; 01-JUL-2009 01:22:35; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72;   0;38347
  14; 4680.2; 01-JUL-2009 01:26:50; Dark ; 38.5;   50; 13Alp Ari ; 2.01; 4250;occ; 77;   0;38347
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   1;-2245.3; 30-JUN-2009 06:45:26; Bright; 42.5;   74; 11Bet Cas ; 2.27; 6600;occ; 85;   0;38336
   2;-2144.5; 30-JUN-2009 06:47:06; Bright; 43.5;   68; 18Alp Cas ; 2.22; 4500;occ; 87;   0;38336
   3;-1768.6; 30-JUN-2009 06:53:22; Bright; 37.5;   73; 57Gam1And ; 2.26; 13100;occ; 75;   0;38336
   4;-1612.0; 30-JUN-2009 06:55:59; Dark ; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75;   0;38336
   5;-1359.6; 30-JUN-2009 07:00:11; Dark ; 40.0;   50; 13Alp Ari ; 2.01; 4250;occ; 80;   0;38336
   6; -542.0; 30-JUN-2009 07:13:49; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;38336
   7;   87.9; 30-JUN-2009 07:24:19; Dark ; 48.5;   84;   Alp Phe ; 2.40; 4500;occ; 97;   0;38337
   8; 477.3; 30-JUN-2009 07:30:48; Dark ; 53.5;   63;   Bet Gru ; 2.15; 2800;occ; 107;   0;38337
   9; 594.7; 30-JUN-2009 07:32:46; Dark ; 48.5;   31;   Alp Gru ; 1.73; 15200;occ; 97;   0;38337
  10; 766.2; 30-JUN-2009 07:35:37; Dark ; 57.5; 172;   Gam Gru ; 3.00; 13100;occ; 115;   0;38337
  11; 1479.2; 30-JUN-2009 07:47:30; Bright; 45.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 90;   0;38337
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   1; 2236.3; 30-JUN-2009 11:21:19; Bright; 17.0; 168; 17Zet Aql ; 2.99; 11000;occ; 34;   0;38339