GOMOS Daily Report 31-MAY-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.

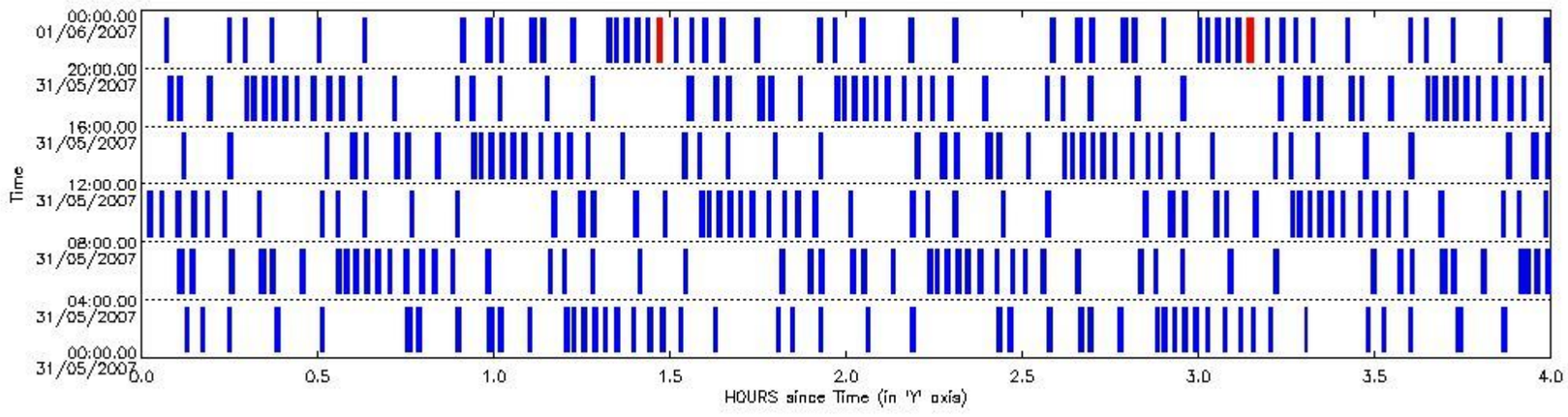
Item	Value
Time of report generation	02JUN2007 05:35:16
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (31MAY2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (01JUN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

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

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

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



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

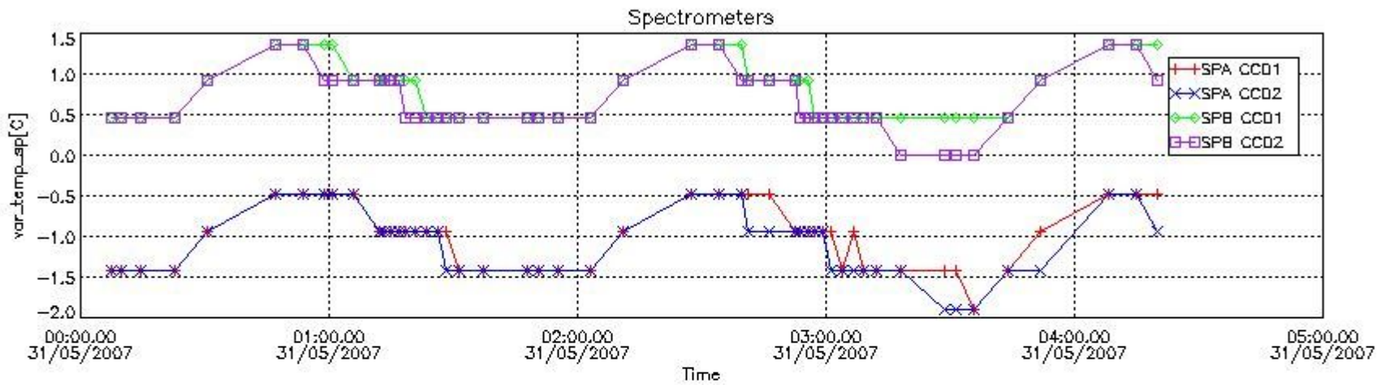
UTC start time	Star name	Star ID	Orbit
31-MAY-2007 21:27:42	23TauSco	136	27452
31-MAY-2007 23:08:18	23TauSco	136	27453

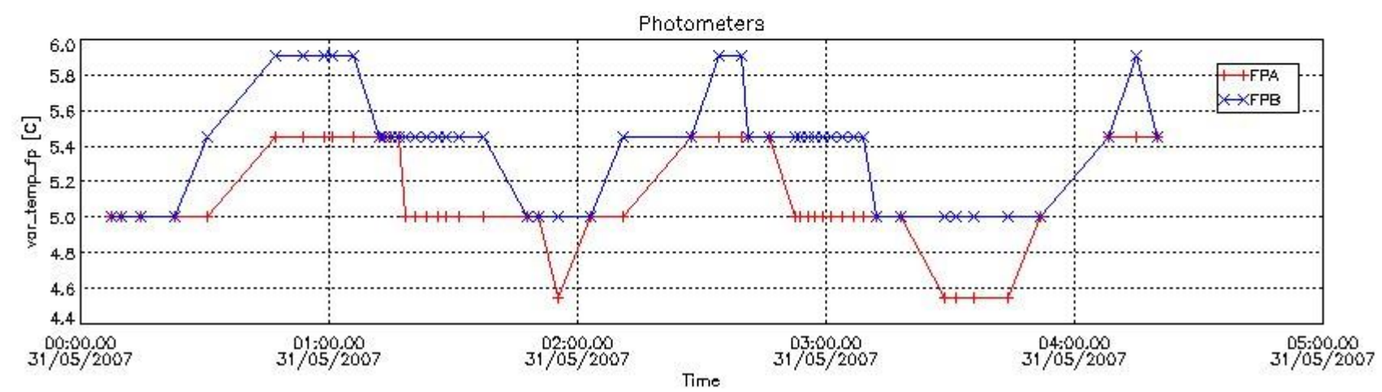
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20070531_000723_000000392058_00331_27439_6847.N1	31-MAY-2007 00:07:23	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	27439	No
2	GOM_TRA_1PNPDE20070531_000959_000000372058_00331_27439_6848.N1	31-MAY-2007 00:09:59	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	27439	No
3	GOM_TRA_1PNPDE20070531_001439_000000342058_00331_27439_6849.N1	31-MAY-2007 00:14:39	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	27439	No
4	GOM_TRA_1PNPDE20070531_002243_000000432058_00331_27439_6850.N1	31-MAY-2007 00:22:43	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	27439	No
5	GOM_TRA_1PNPDE20070531_003025_000000412058_00331_27439_6851.N1	31-MAY-2007 00:30:25	Bright	40.500	53	43Bet And	2.0480	3300.0	81	27439	No
6	GOM_TRA_1PNPDE20070531_004652_000000482058_00331_27439_7031.N1	31-MAY-2007 00:46:52	Dark	47.500	52	16Bet Cet	2.0370	4500.0	95	27439	No
7	GOM_TRA_1PNPDE20070531_005335_000000442058_00331_27439_7032.N1	31-MAY-2007 00:53:35	Dark	43.500	84	Alp Phe	2.3970	4500.0	87	27439	No
8	GOM_TRA_1PNPDE20070531_005848_000000602058_00332_27440_7033.N1	31-MAY-2007 00:58:48	Dark	59.500	63	Bet Gru	2.1500	2800.0	119	27440	No
9	GOM_TRA_1PNPDE20070531_010039_000000452058_00332_27440_7034.N1	31-MAY-2007 01:00:39	Dark	45.000	31	Alp Gru	1.7340	15200.	90	27440	No

10	GOM_TRA_1PNPDE20070531_010543_000000412058_00332_27440_7035.N1	31-MAY-2007 01:05:43	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	27440	No
11	GOM_TRA_1PNPDE20070531_011201_000000422058_00332_27440_7036.N1	31-MAY-2007 01:12:01	Straylight	42.000	141	Bet Ara	2.8400	4600.0	84	27440	No
12	GOM_TRA_1PNPDE20070531_011315_000000402058_00332_27440_7037.N1	31-MAY-2007 01:13:15	Straylight	40.000	147	Alp Ara	2.8770	26000.	80	27440	No
13	GOM_TRA_1PNPDE20070531_011455_000000472058_00332_27440_7038.N1	31-MAY-2007 01:14:55	Straylight	46.500	40	The Sco	1.8590	7100.0	93	27440	No
14	GOM_TRA_1PNPDE20070531_011644_000000472058_00332_27440_7039.N1	31-MAY-2007 01:16:44	Twi_and_stray	47.000	25	35Lam Sco	1.6200	28000.	94	27440	No
15	GOM_TRA_1PNPDE20070531_011833_000000462058_00332_27440_7040.N1	31-MAY-2007 01:18:33	Twi_and_stray	46.000	75	26Eps Sco	2.2910	4250.0	92	27440	No
16	GOM_TRA_1PNPDE20070531_012036_000000412058_00332_27440_7041.N1	31-MAY-2007 01:20:36	Bright	41.000	136	23Tau Sco	2.8220	30000.	82	27440	No
17	GOM_TRA_1PNPDE20070531_012329_000000382058_00332_27440_7042.N1	31-MAY-2007 01:23:29	Bright	37.500	97	8Bet1Sco	2.5610	30000.	75	27440	No
18	GOM_TRA_1PNPDE20070531_012610_000000412058_00332_27440_7043.N1	31-MAY-2007 01:26:10	Bright	41.000	98	13Zet Oph	2.5710	30000.	82	27440	No
19	GOM_TRA_1PNPDE20070531_012823_000000402058_00332_27440_7044.N1	31-MAY-2007 01:28:23	Bright	39.500	120	1Del Oph	2.7340	3200.0	79	27440	No
20	GOM_TRA_1PNPDE20070531_013124_000000372058_00332_27440_7045.N1	31-MAY-2007 01:31:24	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	27440	No
21	GOM_TRA_1PNPDE20070531_013719_000000362058_00332_27440_7046.N1	31-MAY-2007 01:37:19	Bright	36.000	83		2.3780	11000.	72	27440	No
22	GOM_TRA_1PNPDE20070531_014759_000000372058_00332_27440_7047.N1	31-MAY-2007 01:47:59	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	27440	No
23	GOM_TRA_1PNPDE20070531_015035_000000342058_00332_27440_7048.N1	31-MAY-2007 01:50:35	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	27440	No
24	GOM_TRA_1PNPDE20070531_015515_000000332058_00332_27440_7049.N1	31-MAY-2007 01:55:15	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	27440	No
25	GOM_TRA_1PNPDE20070531_020319_000000442058_00332_27440_7050.N1	31-MAY-2007 02:03:19	Bright	43.500	76	27Gam Cas	2.3000	30000.	87	27440	No
26	GOM_TRA_1PNPDE20070531_021101_000000422058_00332_27440_7051.N1	31-MAY-2007 02:11:01	Bright	42.000	53	43Bet And	2.0480	3300.0	84	27440	No
27	GOM_TRA_1PNPDE20070531_022729_000000472058_00332_27440_7204.N1	31-MAY-2007 02:27:29	Dark	46.500	52	16Bet Cet	2.0370	4500.0	93	27440	No
28	GOM_TRA_1PNPDE20070531_023412_000000422058_00332_27440_7205.N1	31-MAY-2007 02:34:12	Dark	42.000	84	Alp Phe	2.3970	4500.0	84	27440	No
29	GOM_TRA_1PNPDE20070531_023925_000000602058_00333_27441_7206.N1	31-MAY-2007 02:39:25	Dark	60.000	63	Bet Gru	2.1500	2800.0	120	27441	No
30	GOM_TRA_1PNPDE20070531_024116_000000472058_00333_27441_7207.N1	31-MAY-2007 02:41:16	Dark	46.500	31	Alp Gru	1.7340	15200.	93	27441	No
31	GOM_TRA_1PNPDE20070531_024619_000000422058_00333_27441_7208.N1	31-MAY-2007 02:46:19	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	27441	No
32	GOM_TRA_1PNPDE20070531_025237_000000412058_00333_27441_7209.N1	31-MAY-2007 02:52:37	Straylight	41.000	141	Bet Ara	2.8400	4600.0	82	27441	No
33	GOM_TRA_1PNPDE20070531_025351_000000412058_00333_27441_7210.N1	31-MAY-2007 02:53:51	Straylight	41.000	147	Alp Ara	2.8770	26000.	82	27441	No
34	GOM_TRA_1PNPDE20070531_025532_000000462058_00333_27441_7211.N1	31-MAY-2007 02:55:32	Straylight	45.500	40	The Sco	1.8590	7100.0	91	27441	No
35	GOM_TRA_1PNPDE20070531_025720_000000462058_00333_27441_7212.N1	31-MAY-2007 02:57:20	Twi_and_stray	46.000	25	35Lam Sco	1.6200	28000.	92	27441	No
36	GOM_TRA_1PNPDE20070531_025909_000000472058_00333_27441_7213.N1	31-MAY-2007 02:59:09	Twi_and_stray	46.500	75	26Eps Sco	2.2910	4250.0	93	27441	No
37	GOM_TRA_1PNPDE20070531_030112_000000422058_00333_27441_7214.N1	31-MAY-2007 03:01:12	Bright	41.500	136	23Tau Sco	2.8220	30000.	83	27441	No
38	GOM_TRA_1PNPDE20070531_030405_000000392058_00333_27441_7215.N1	31-MAY-2007 03:04:05	Bright	39.000	97	8Bet1Sco	2.5610	30000.	78	27441	No
39	GOM_TRA_1PNPDE20070531_030646_000000402058_00333_27441_7216.N1	31-MAY-2007 03:06:46	Bright	40.000	98	13Zet Oph	2.5710	30000.	80	27441	No
40	GOM_TRA_1PNPDE20070531_030859_000000402058_00333_27441_7217.N1	31-MAY-2007 03:08:59	Bright	39.500	120	1Del Oph	2.7340	3200.0	79	27441	No
41	GOM_TRA_1PNPDE20070531_031200_000000372058_00333_27441_7218.N1	31-MAY-2007 03:12:00	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	27441	No
42	GOM_TRA_1PNPDE20070531_031801_000000292058_00333_27441_7219.N1	31-MAY-2007 03:18:01	Bright	28.500	83		2.3780	11000.	57	27441	Yes
43	GOM_TRA_1PNPDE20070531_032835_000000392058_00333_27441_7220.N1	31-MAY-2007 03:28:35	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	27441	No
44	GOM_TRA_1PNPDE20070531_033111_000000332058_00333_27441_7221.N1	31-MAY-2007 03:31:11	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	27441	No
45	GOM_TRA_1PNPDE20070531_033551_000000352058_00333_27441_7222.N1	31-MAY-2007 03:35:51	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	27441	No
46	GOM_TRA_1PNPDE20070531_034355_000000552058_00333_27441_7360.N1	31-MAY-2007 03:43:55	Bright	55.000	76	27Gam Cas	2.3000	30000.	110	27441	No
47	GOM_TRA_1PNPDE20070531_035137_000000442058_00333_27441_7361.N1	31-MAY-2007 03:51:37	Bright	43.500	53	43Bet And	2.0480	3300.0	87	27441	No
48	GOM_TRA_1PNPDE20070531_040805_000000472058_00333_27441_7362.N1	31-MAY-2007 04:08:05	Dark	47.000	52	16Bet Cet	2.0370	4500.0	94	27441	No
49	GOM_TRA_1PNPDE20070531_041448_000000472058_00333_27441_7363.N1	31-MAY-2007 04:14:48	Dark	46.500	84	Alp Phe	2.3970	4500.0	93	27441	No
50	GOM_TRA_1PNPDE20070531_042002_000000562058_00334_27442_7364.N1	31-MAY-2007 04:20:02	Dark	55.500	63	Bet Gru	2.1500	2800.0	111	27442	No

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



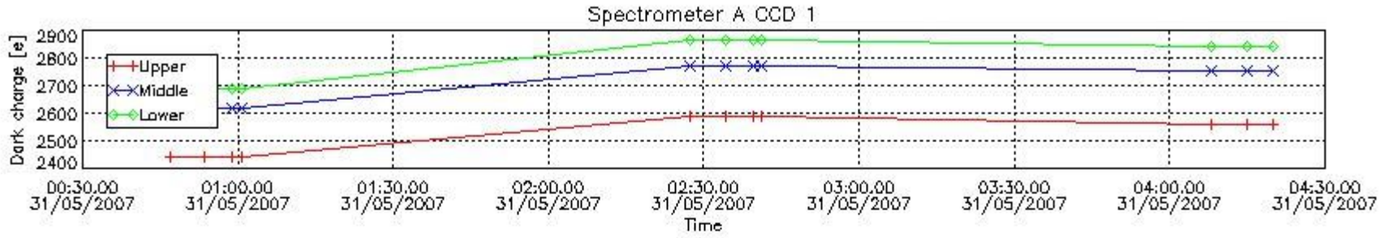


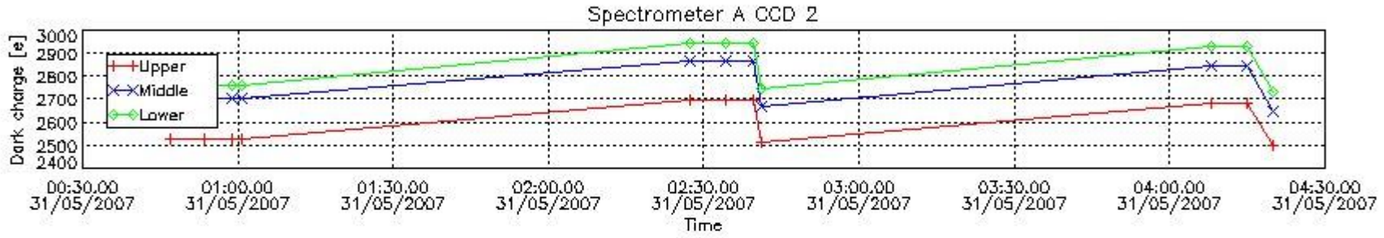
4. Overview of dark signal processing per product

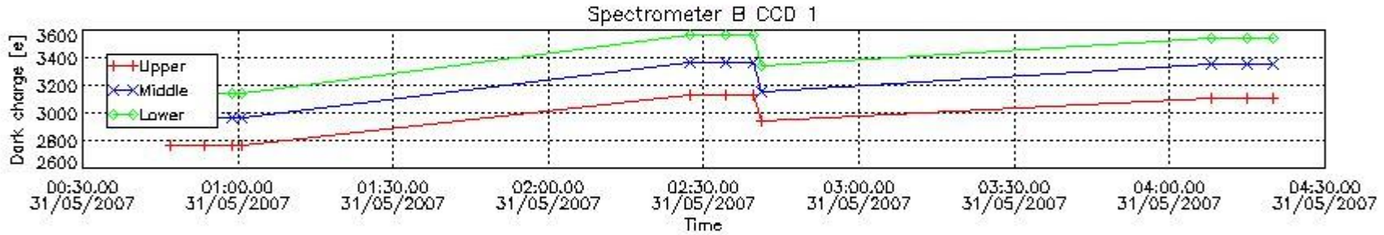
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

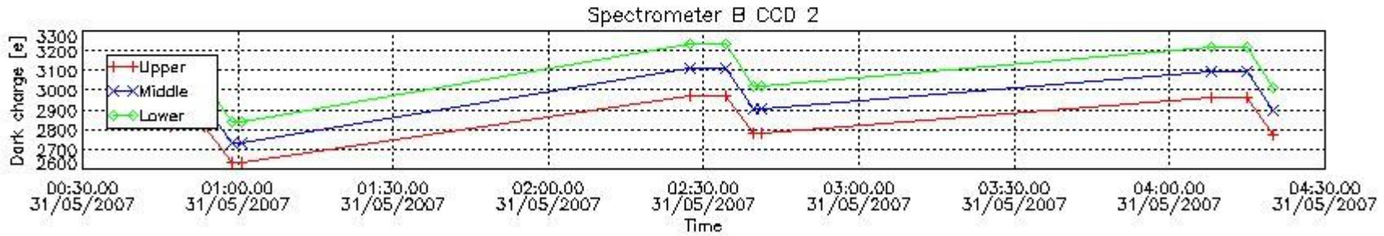
4.1 All products used the DSA observation for the DC computation

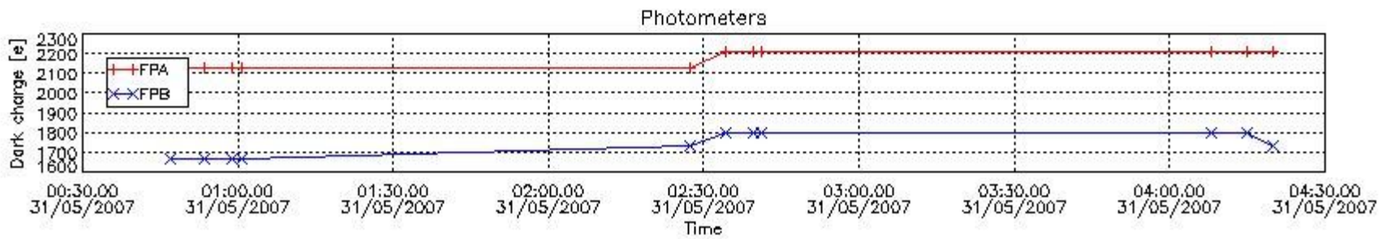
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











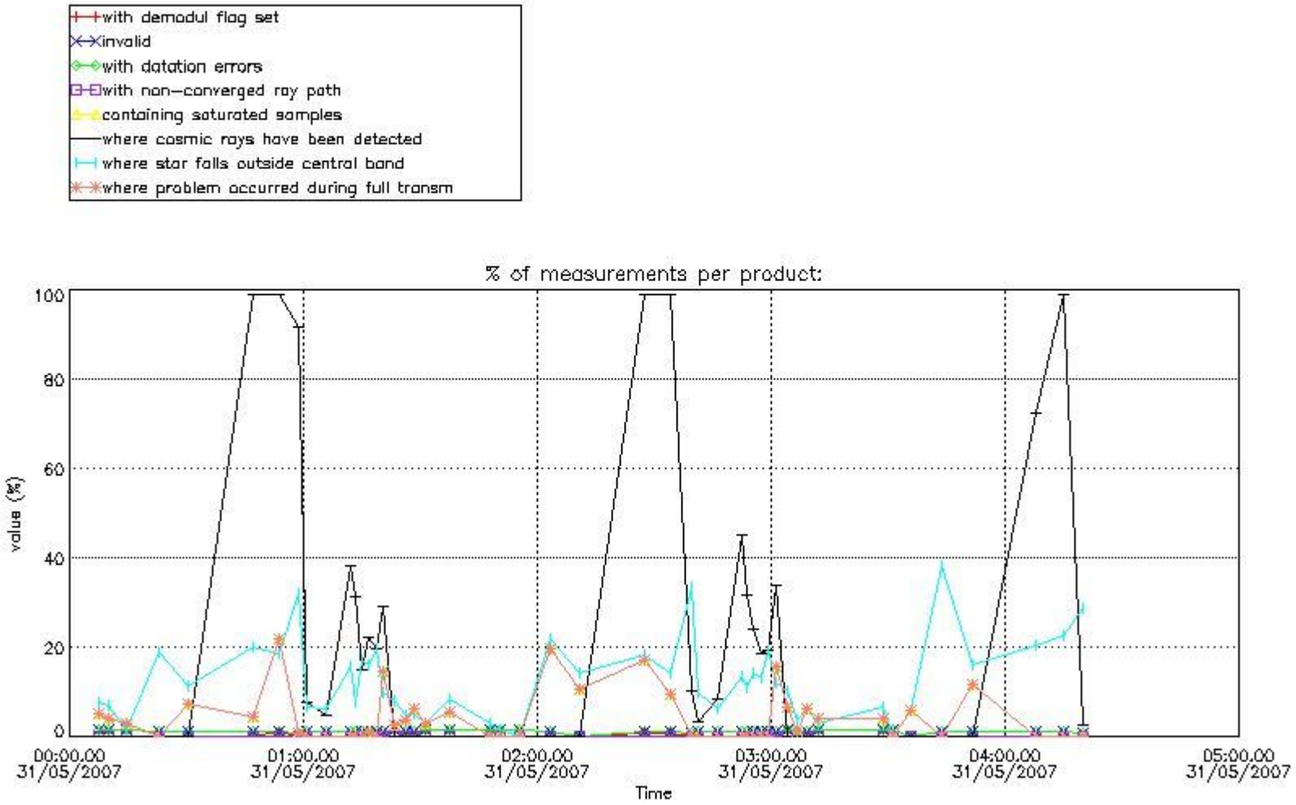
5. Demodulation flag and quality information monitoring

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:

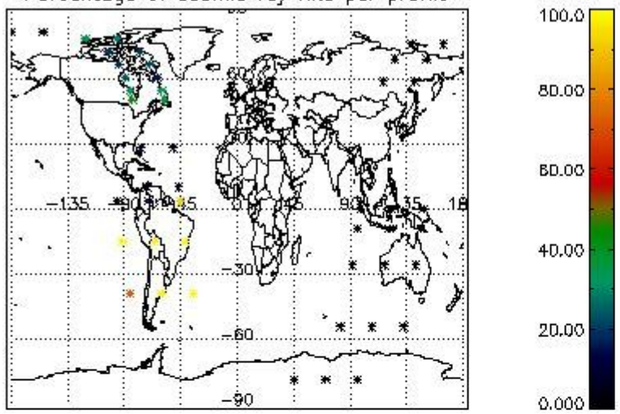
At least one measurement with demodulation flag set:	24.4898 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

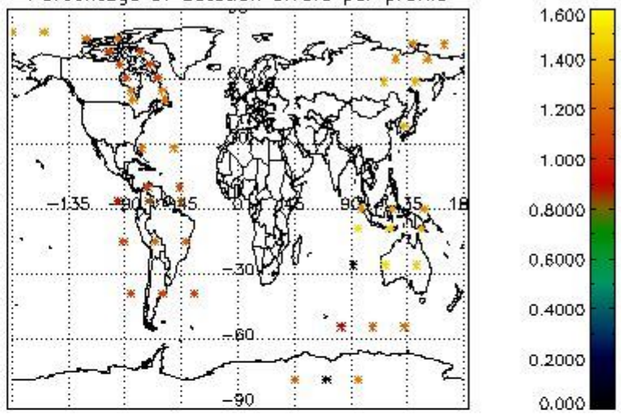


5.3 Plot quality information per product (world map)

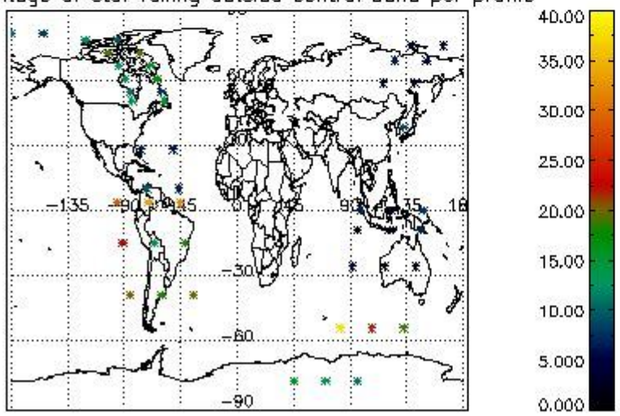
Percentage of cosmic ray hits per profile



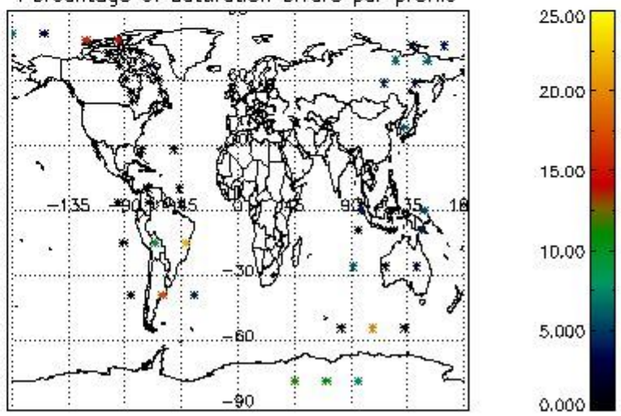
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



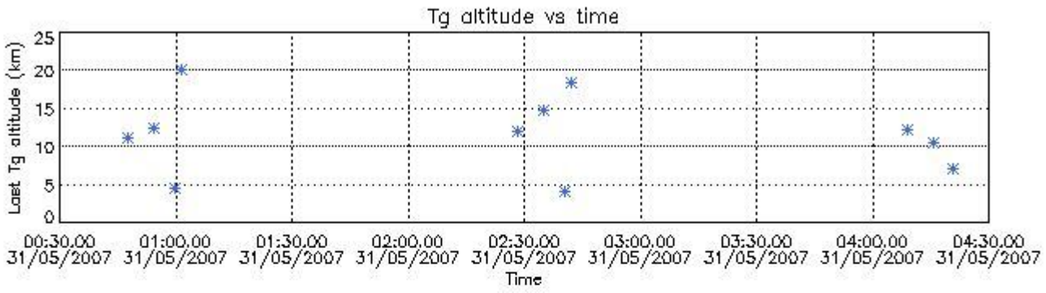
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

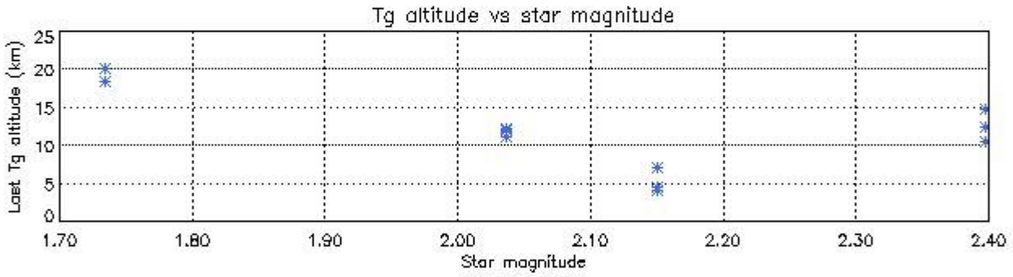
6.1 Statistics on tangent altitude lost:

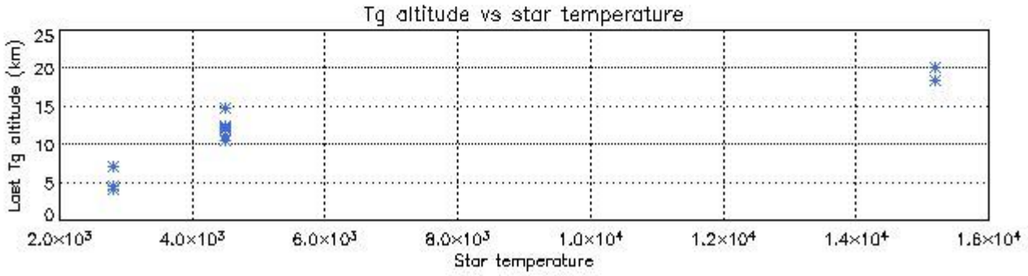
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.552	19.930	NaN
St. deviation:	5.1045	5.1176	NaN
Maximum:	20.174	27.848	NaN
Minimum:	4.0109	3.7118	NaN
Number of data:	11.000	26.000	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

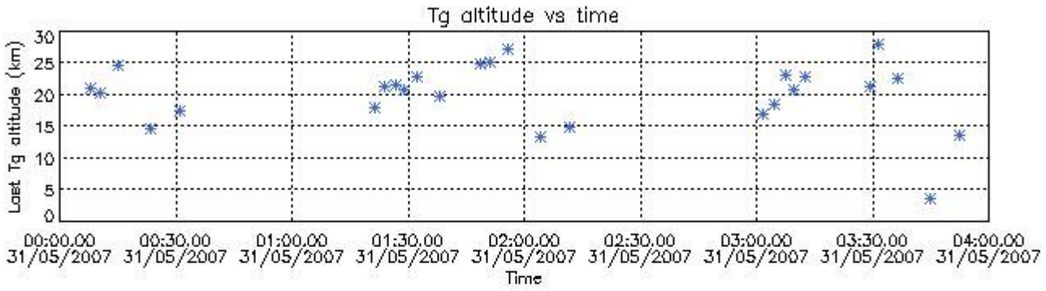


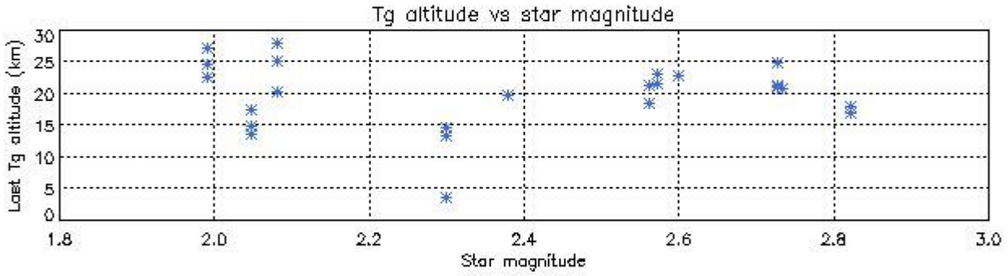


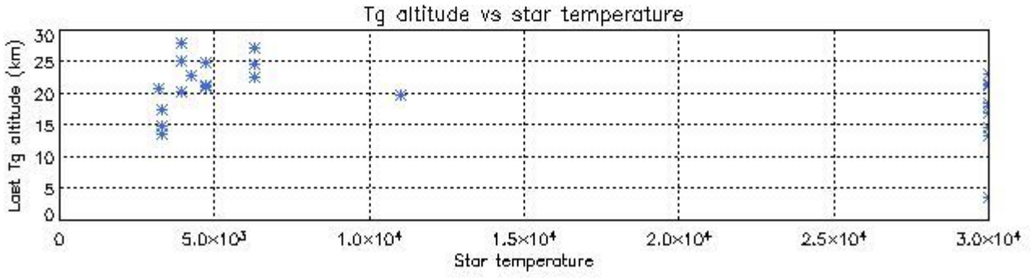


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost





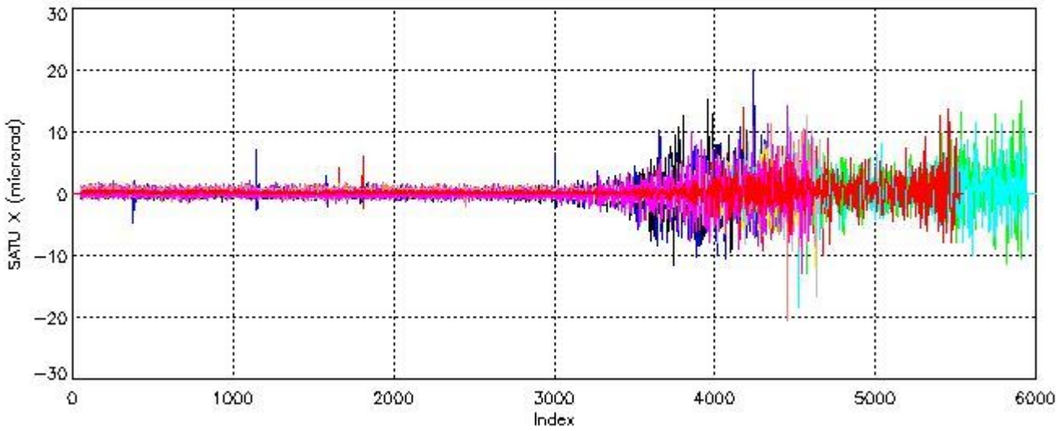


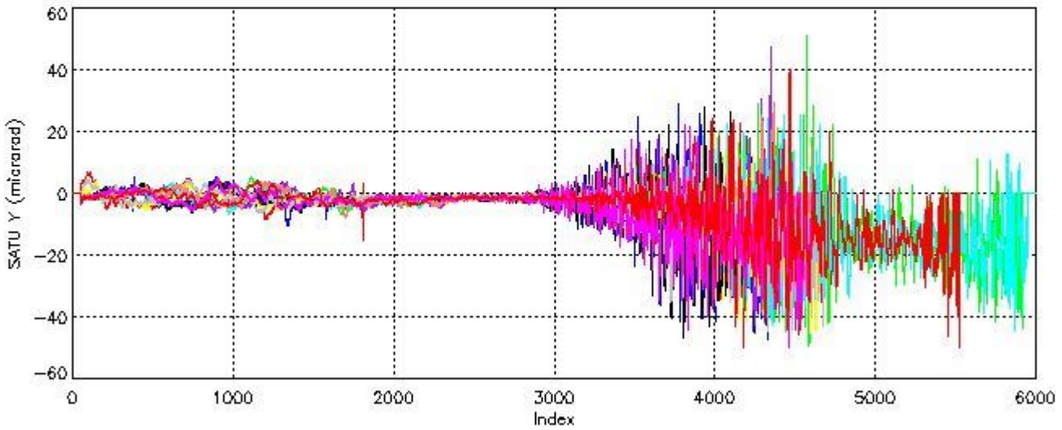
7. Star Acquisition and Tracking Unit (SATU)

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:	0.17032	-0.91665	0.13202	-0.77333
St. deviation:	0.31207	2.0707	0.66907	2.5759
Maximum:	2.1000	6.6000	4.8000	7.4000
Minimum:	-4.8000	-6.6000	-4.5000	-8.8000

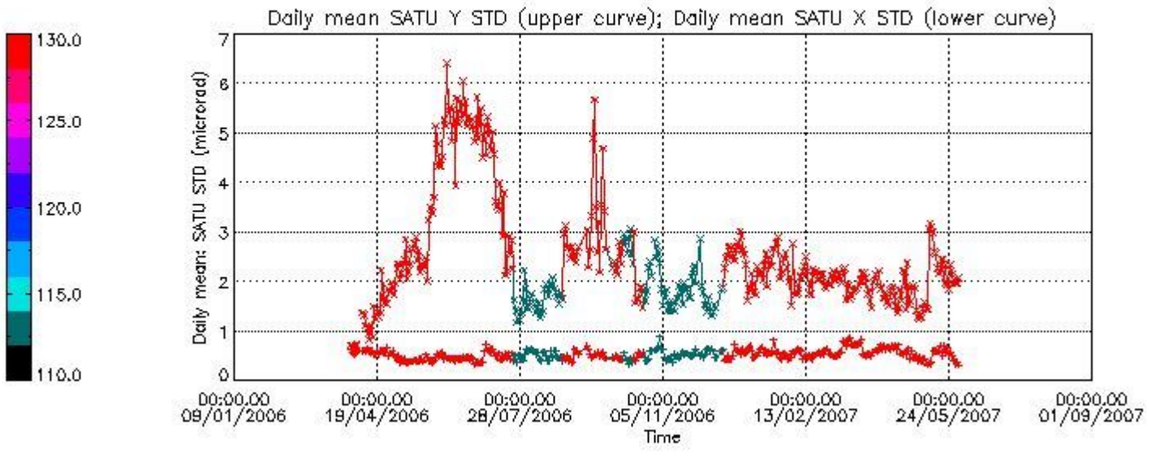
Number of data:	11200.	11200.	22350.	22350.

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.

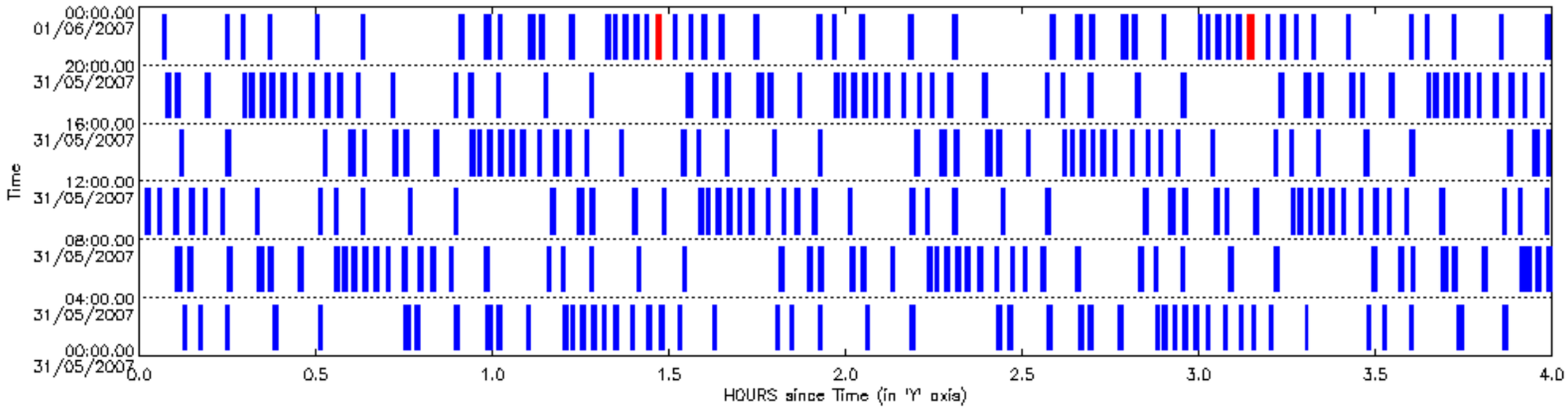
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

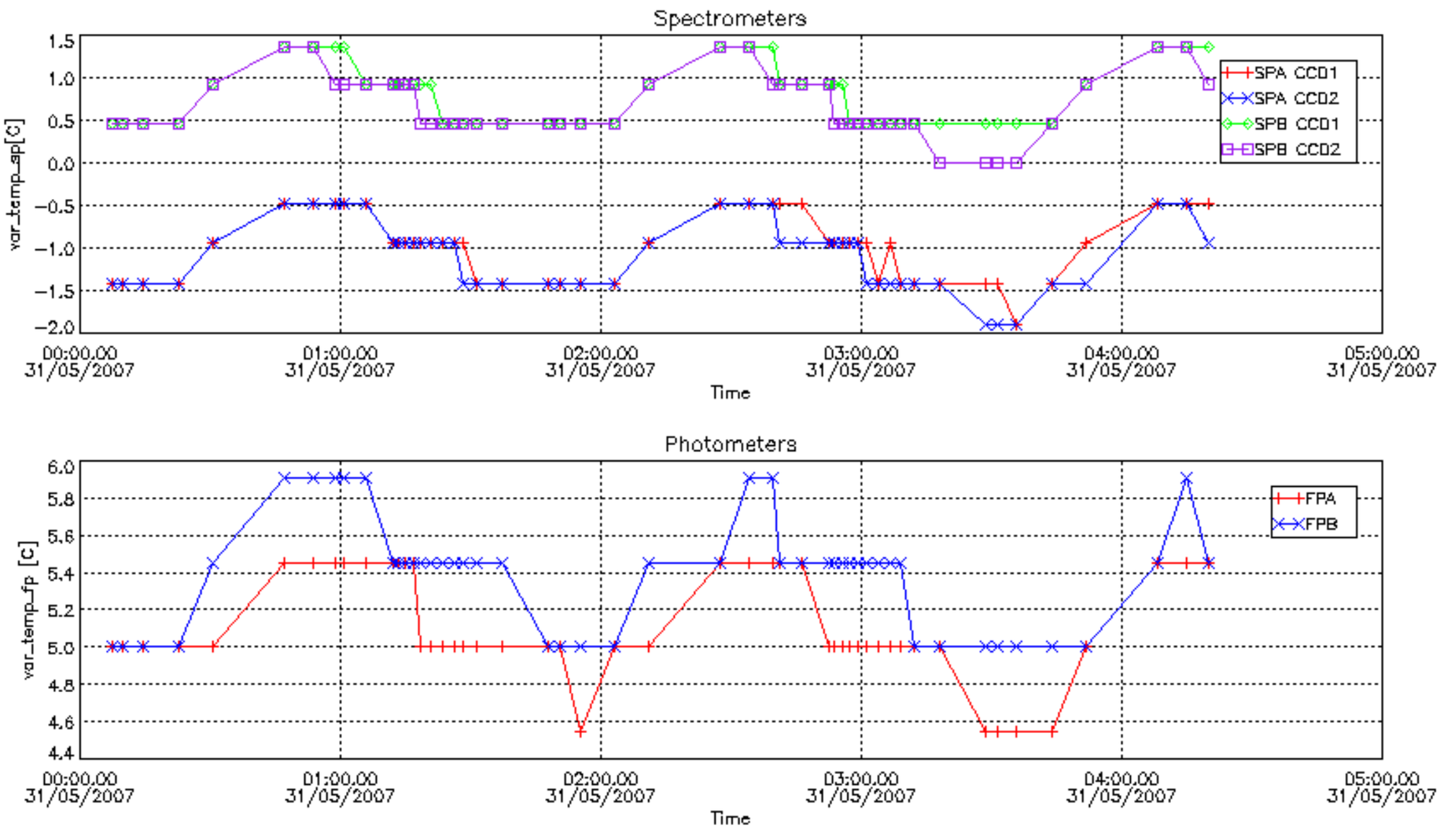


8. Auxiliary Data Files used for the production reported in section 2.4

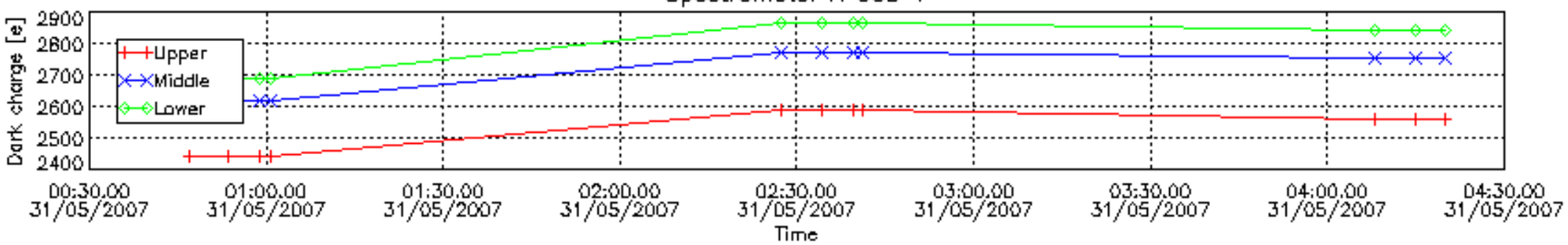
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	31-MAY-2007 00:07:23
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070525_094239_20070524_000000_20100101_000000	1	31-MAY-2007 00:07:23
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	31-MAY-2007 00:07:23
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	31-MAY-2007 00:07:23
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	31-MAY-2007 00:07:23
ECMWF_FILE	AUX_ECF_AXNECM20070530_062111_20070530_210000_20070531_090000	1	31-MAY-2007 00:07:23
ECMWF_FILE	AUX_ECF_AXNECM20070530_181112_20070531_030000_20070531_150000	46	31-MAY-2007 03:43:55
OPTIONAL_ECMWF_FILE	MISSING	1	31-MAY-2007 00:07:23
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20070530_211927_000057382058_00329_27437_3591.N1	1	31-MAY-2007 00:07:23
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20070530_230024_000057382058_00330_27438_3592.N1	6	31-MAY-2007 00:46:52
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20070531_004121_000057382058_00331_27439_3593.N1	27	31-MAY-2007 02:27:29
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20070531_021659_000044632058_00332_27440_3594.N1	46	31-MAY-2007 03:43:55

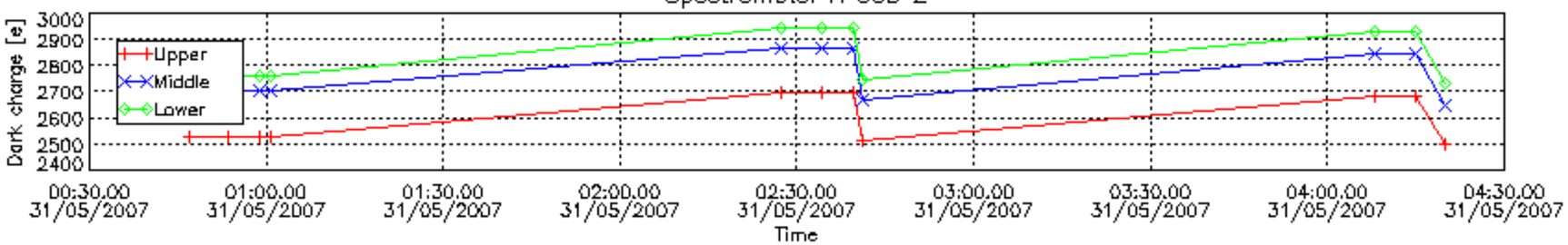

00:00.00
01/06/2007
20:00.00
31/05/2007
16:00.00
31/05/2007
12:00.00
31/05/2007
08:00.00
31/05/2007
04:00.00
31/05/2007
00:00.00
31/05/2007
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)


Spectrometers
var_temp_sp[C]
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
31/05/2007
01:00.00
31/05/2007
02:00.00
31/05/2007
03:00.00
31/05/2007
04:00.00
31/05/2007
05:00.00
31/05/2007
Time
Photometers
var_temp_fp [C]
6.0
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
FPA
FPB
00:00.00
31/05/2007
01:00.00
31/05/2007
02:00.00
31/05/2007
03:00.00
31/05/2007
04:00.00
31/05/2007
05:00.00
31/05/2007
Time

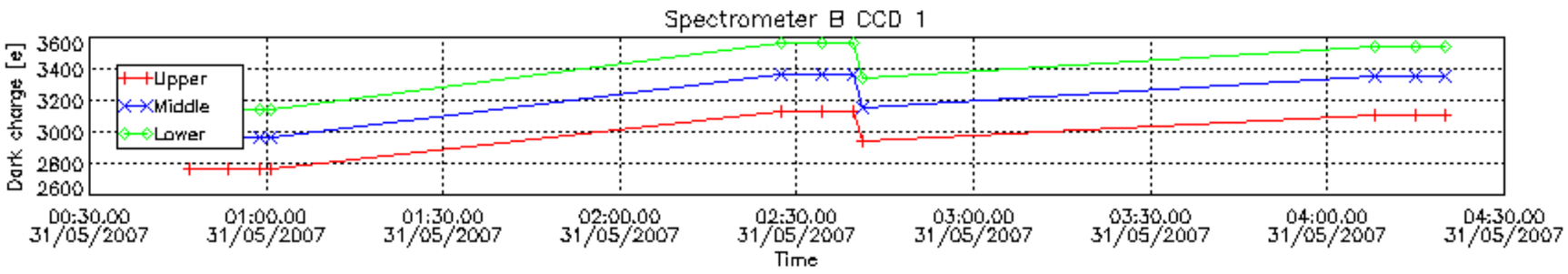
Spectrometer A CCD 1



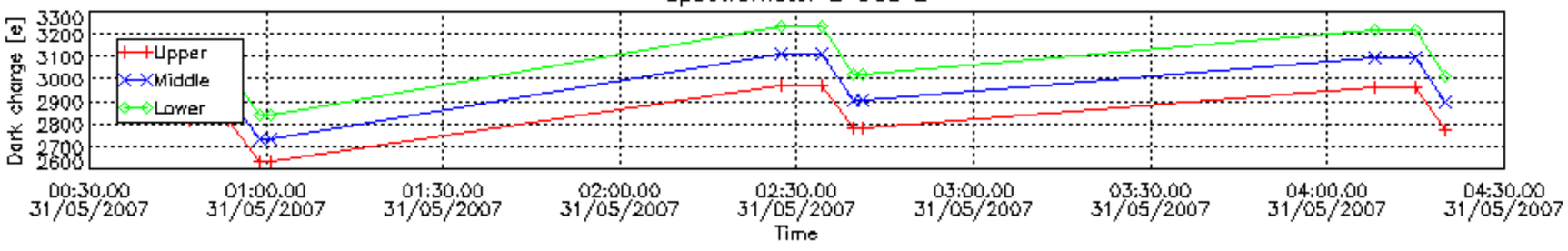
Spectrometer A CCD 2



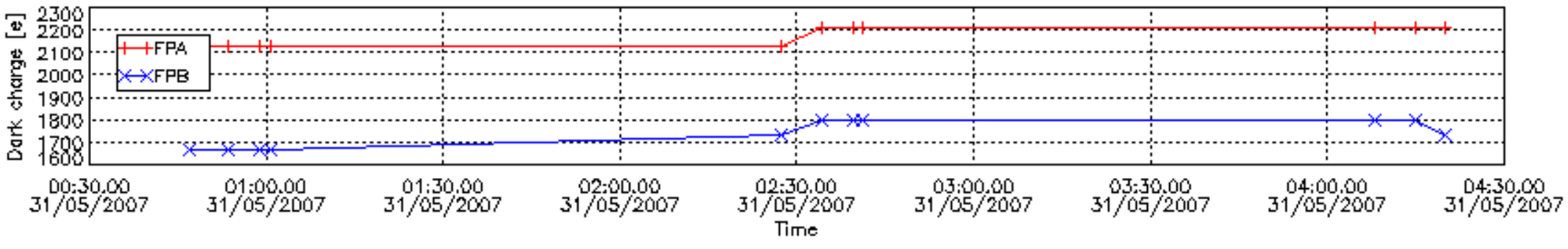
Spectrometer B CCD 1

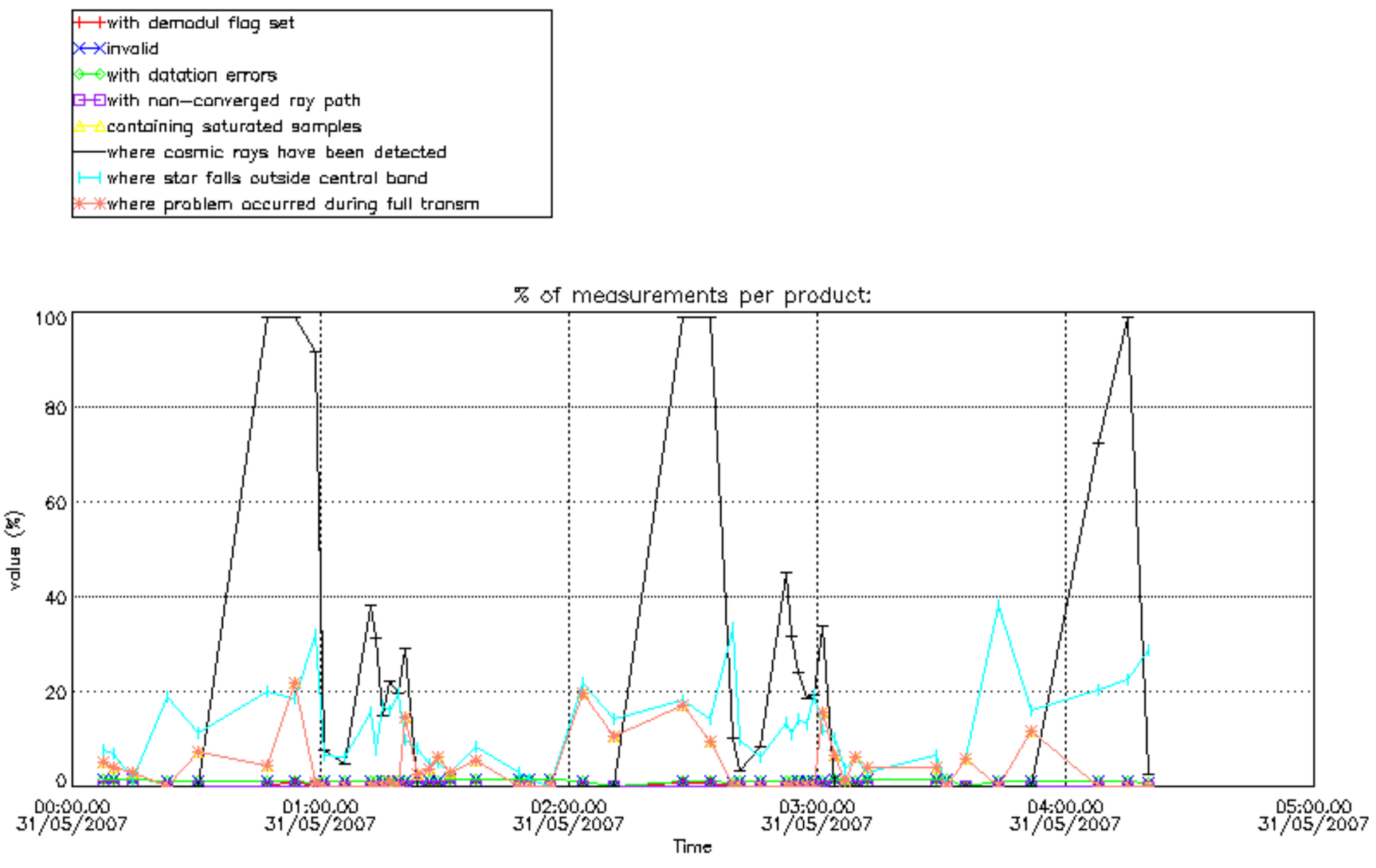


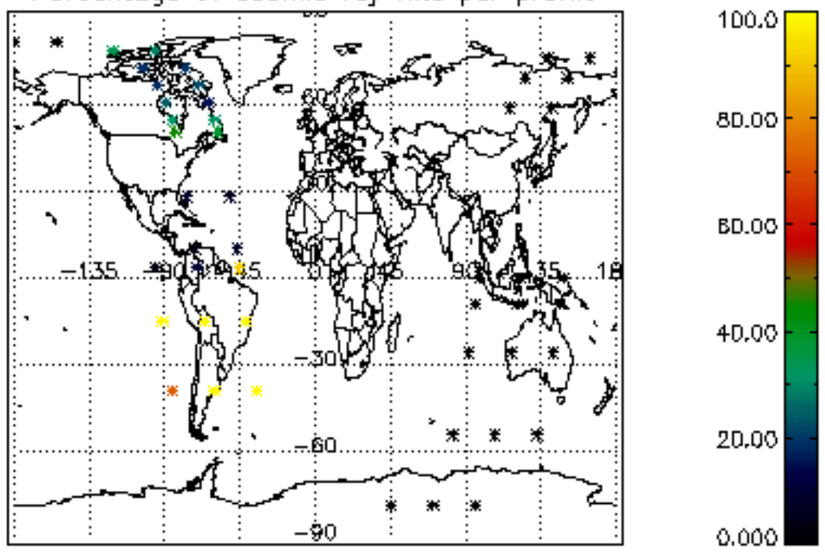
Spectrometer B CCD 2

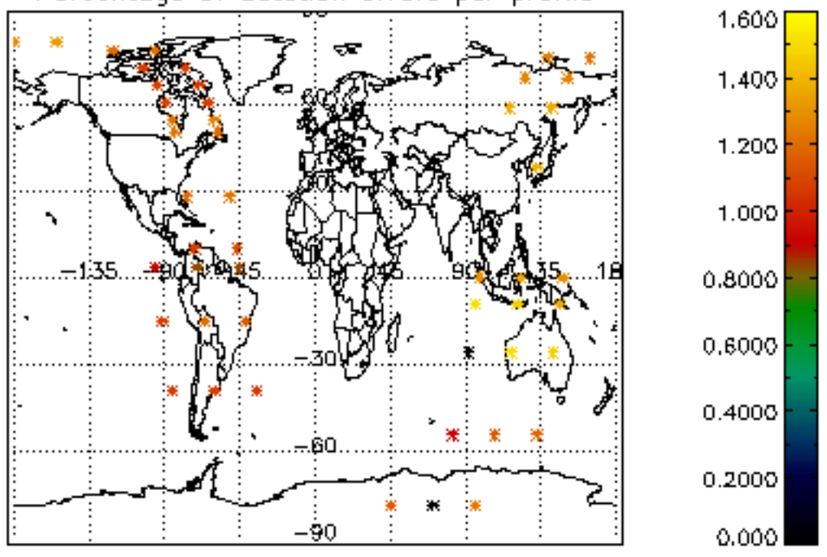


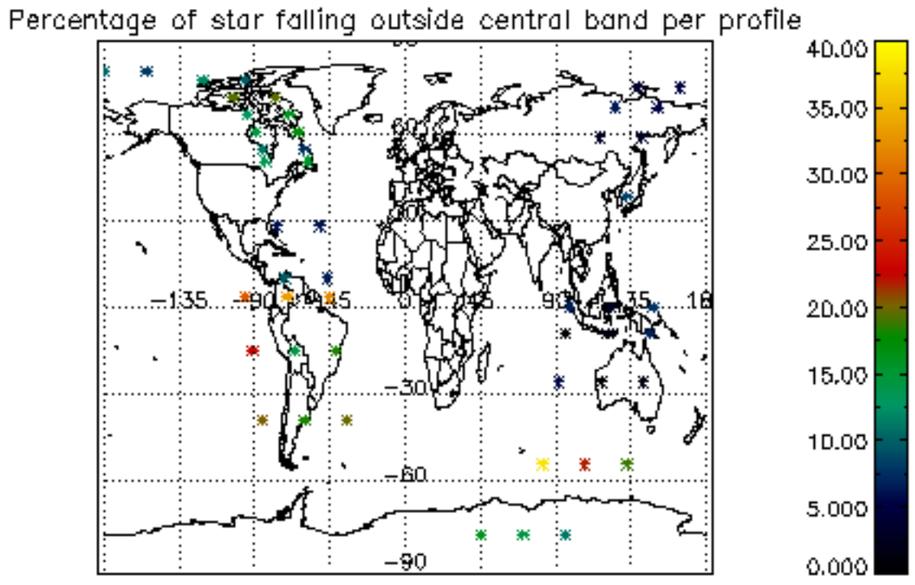
Photometers

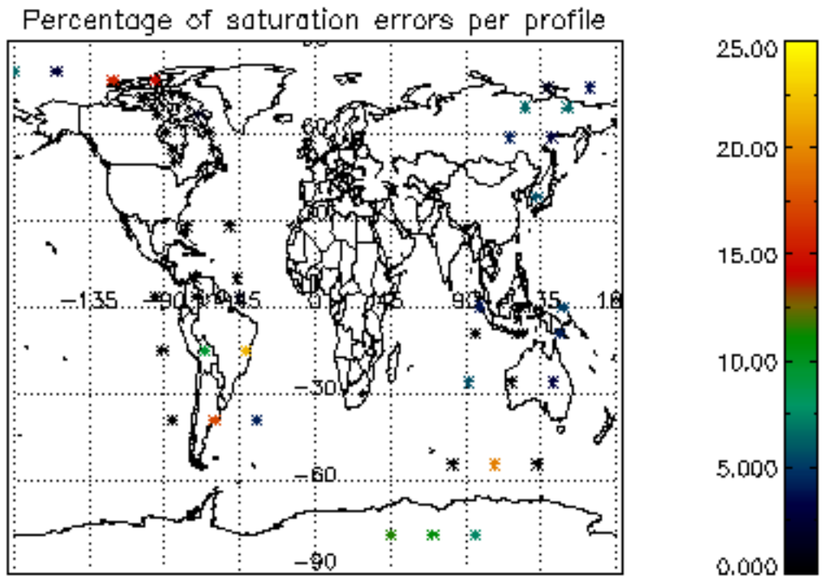



with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
100
80
60
40
20
0
value (%)
00:00.00
31/05/2007
01:00.00
31/05/2007
02:00.00
31/05/2007
03:00.00
31/05/2007
04:00.00
31/05/2007
05:00.00
31/05/2007
Time

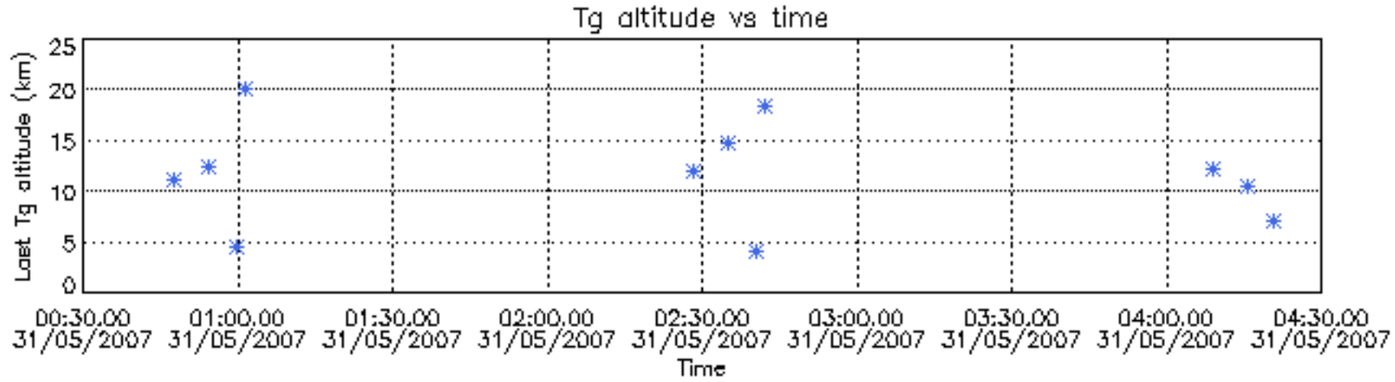

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−30
−60
−90

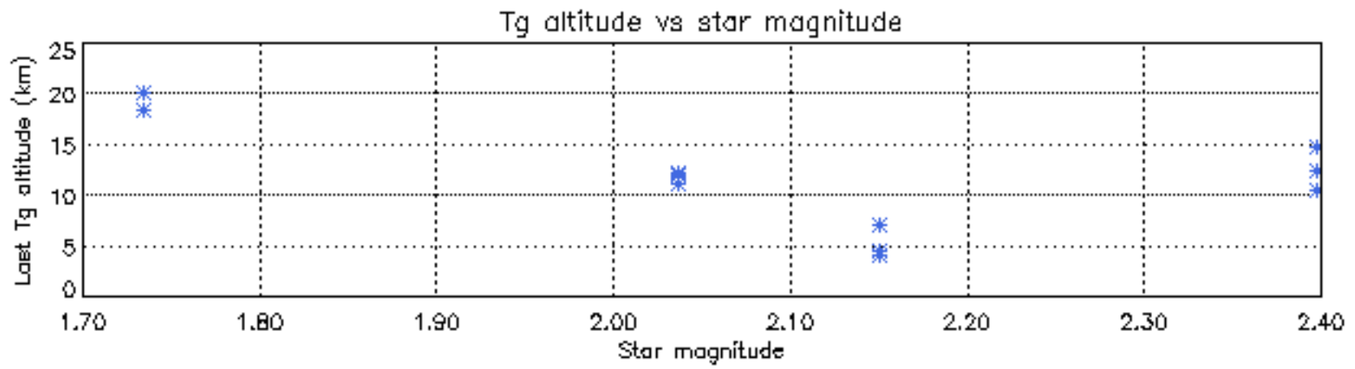

Percentage of datation errors per profile
1.600
1.400
1.200
1.000
0.8000
0.6000
0.4000
0.2000
0.000
−135
−90
−30
−60
−90

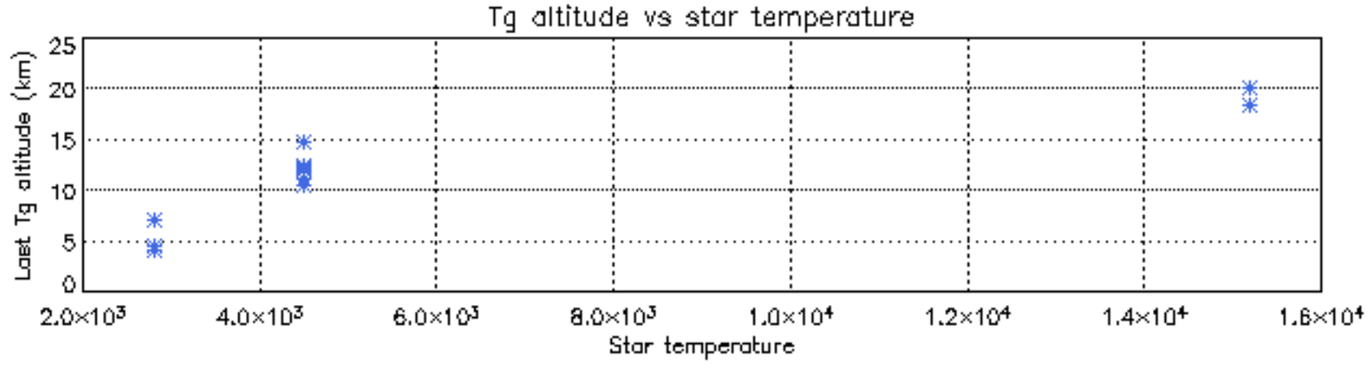

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90


Percentage of saturation errors per profile
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90

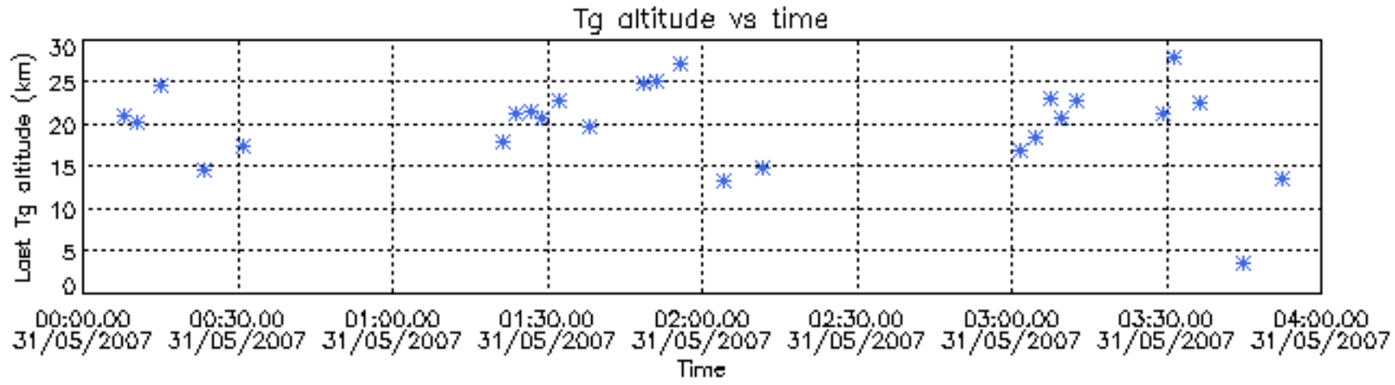
Tangent altitude at which the star is lost

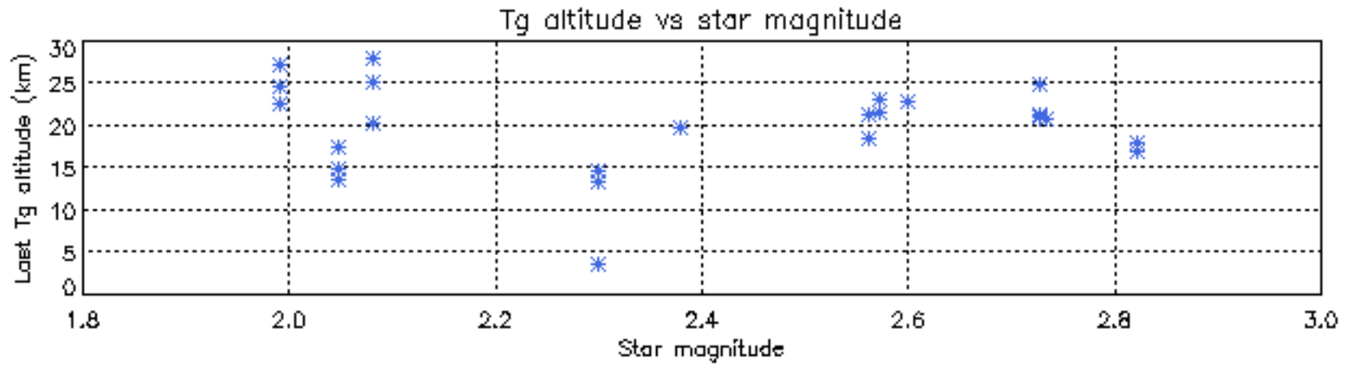


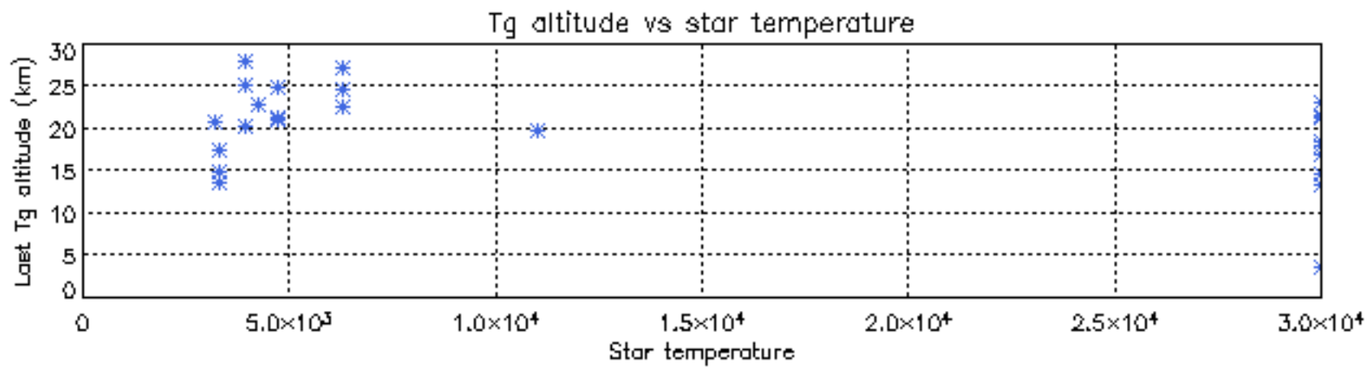


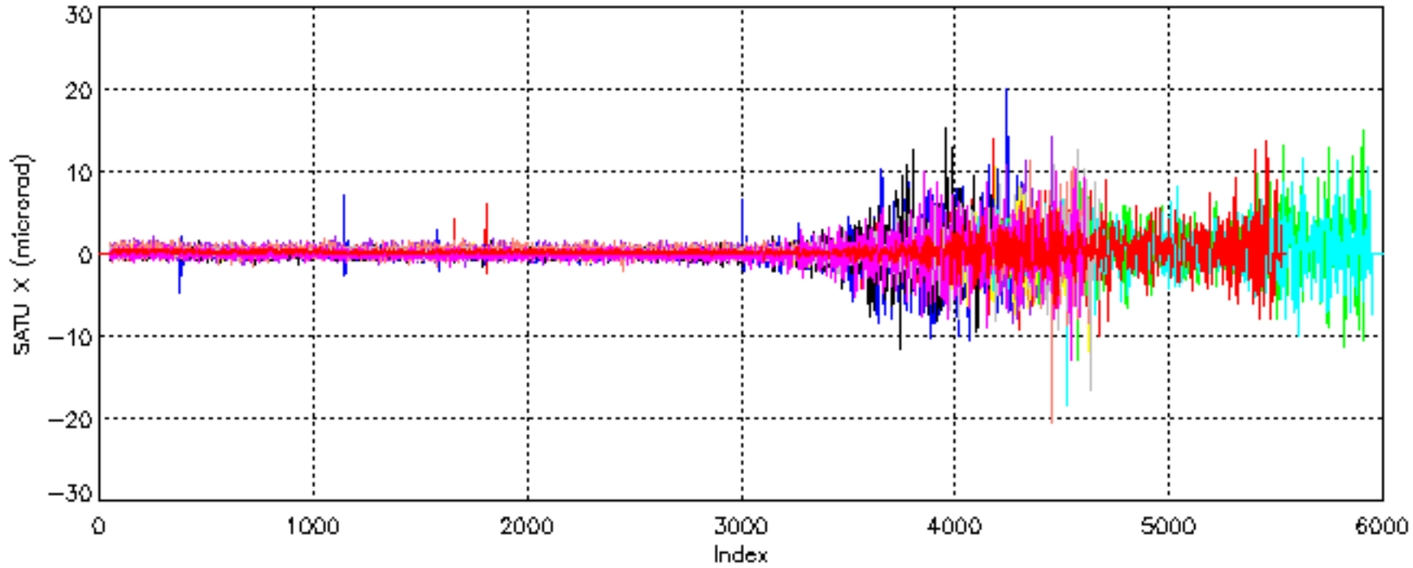


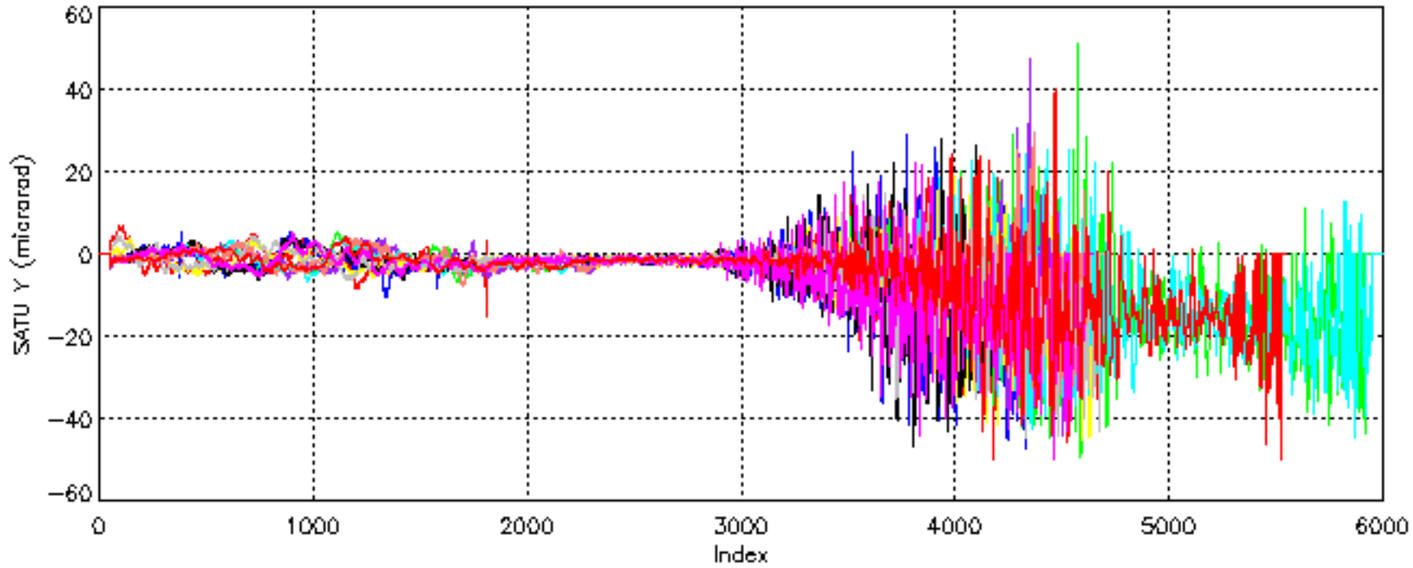
Tangent altitude at which the star is lost

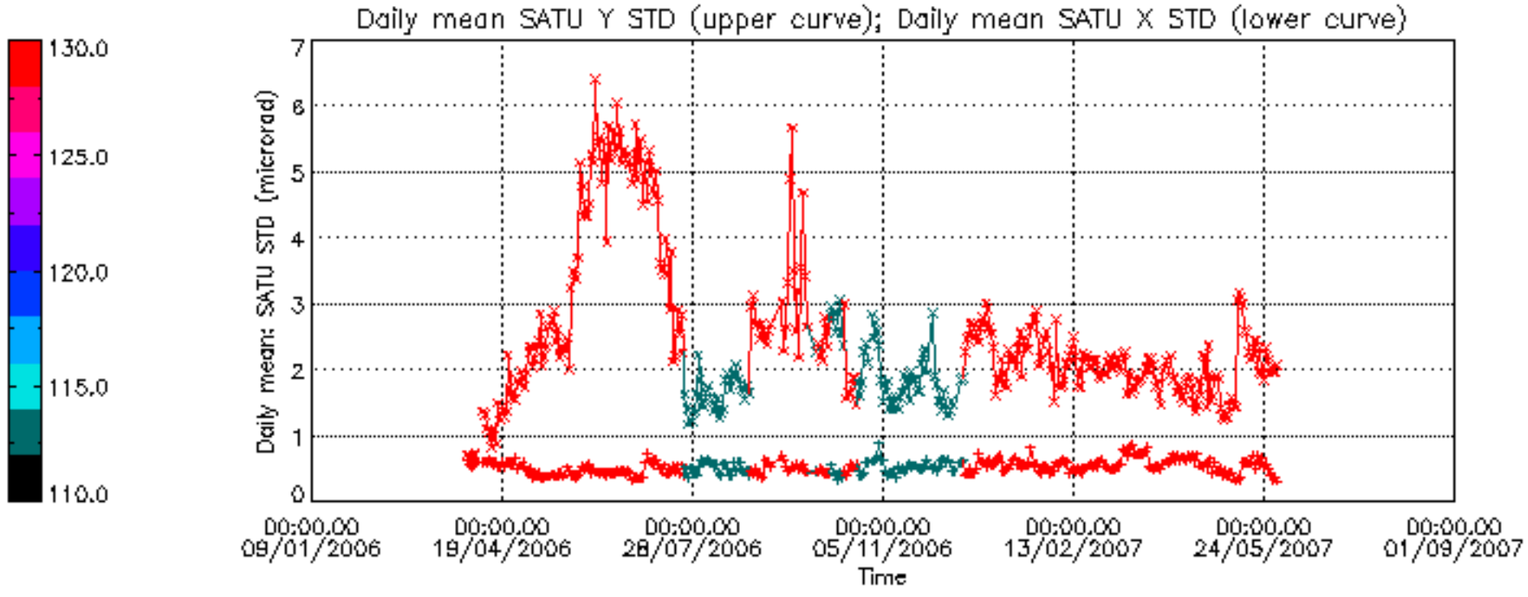







30
20
10
0
−10
−20
−30
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
Index


60
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)
130.0
125.0
120.0
115.0
110.0
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
Time

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070501_013443_000038472057_00403_27010_3611.N1
1; -370.3; 01-MAY-2007 01:34:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27010
2; -150.6; 01-MAY-2007 01:38:22; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;27010
3; 7.7; 01-MAY-2007 01:41:01; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;27011
4; 177.8; 01-MAY-2007 01:43:51; Dark ; 35.0; 45; Alp Pav ; 1.94; 26000;occ; 70; 0;27011
5; 575.4; 01-MAY-2007 01:50:28; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;27011
6; 707.1; 01-MAY-2007 01:52:40; Dark ; 42.5; 134; Bet TrA ; 2.81; 6600;occ; 85; 0;27011
7; 831.2; 01-MAY-2007 01:54:44; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;27011
8; 1036.0; 01-MAY-2007 01:58:09; Dark ; 42.0; 78; Alp Lup ; 2.30; 28000;occ; 84; 0;27011
9; 1129.0; 01-MAY-2007 01:59:42; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27011
10; 1254.7; 01-MAY-2007 02:01:48; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;27011
11; 1512.0; 01-MAY-2007 02:06:05; Dark ; 41.0; 169; 46Gam Hya ; 2.99; 4700;occ; 82; 0;27011
12; 1711.6; 01-MAY-2007 02:09:25; Bright; 39.0; 15; 67Alp Vir ; 0.98; 28000;occ; 78; 0;27011
13; 1895.7; 01-MAY-2007 02:12:29; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;27011
14; 2095.3; 01-MAY-2007 02:15:48; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;27011
15; 2559.8; 01-MAY-2007 02:23:33; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27011
16; 2832.2; 01-MAY-2007 02:28:05; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;27011
17; 2915.7; 01-MAY-2007 02:29:29; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;27011
18; 2994.8; 01-MAY-2007 02:30:48; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;27011
19; 3444.8; 01-MAY-2007 02:38:18; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;27011
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1;-2118.8; 01-MAY-2007 02:46:10; Bright; 42.0; 110; 37Del Cas ; 2.68; 8900;occ; 84; 0;27011
2;-2036.1; 01-MAY-2007 02:47:33; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;27011
3; -495.7; 01-MAY-2007 03:13:13; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;27011
4; -369.7; 01-MAY-2007 03:15:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27011
5; -150.0; 01-MAY-2007 03:18:59; Dark ; 39.0; 31; Alp Gru ; 1.73; 15200;occ; 78; 0;27011
6; 8.2; 01-MAY-2007 03:21:37; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;27012
7; 178.5; 01-MAY-2007 03:24:27; Dark ; 32.0; 45; Alp Pav ; 1.94; 26000;occ; 64; 0;27012
8; 575.9; 01-MAY-2007 03:31:05; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;27012
9; 707.7; 01-MAY-2007 03:33:17; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;27012
10; 831.6; 01-MAY-2007 03:35:21; Dark ; 49.0; 4; Alp1Cen ;-0.01; 5800;occ; 98; 0;27012
11; 1036.5; 01-MAY-2007 03:38:45; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;27012
12; 1129.2; 01-MAY-2007 03:40:18; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27012
13; 1254.8; 01-MAY-2007 03:42:24; Dark ; 41.5; 54; 5The Cen ; 2.06; 4500;occ; 83; 0;27012
14; 1512.2; 01-MAY-2007 03:46:41; Dark ; 47.5; 169; 46Gam Hya ; 2.99; 4700;occ; 95; 0;27012
15; 1711.9; 01-MAY-2007 03:50:01; Bright; 39.0; 15; 67Alp Vir ; 0.98; 28000;occ; 78; 0;27012
16; 1896.1; 01-MAY-2007 03:53:05; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;27012
17; 2095.5; 01-MAY-2007 03:56:24; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;27012
18; 2559.9; 01-MAY-2007 04:04:09; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27012
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   3; 1901.8; 03-MAY-2007 14:34:08; Bright;  34.5;  121; 29Gam Vir  ; 2.74;  7200;occ;  69;   0;27047
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   3; 2840.3; 04-MAY-2007 09:16:22; Bright; 36.0;   87; 64Gam UMa ; 2.43; 11000;occ; 72;   0;27058
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  11; 4004.5; 04-MAY-2007 14:37:34; Bright; 52.0;   68; 18Alp Cas ; 2.22; 4500;occ; 104;   0;27061
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  19; 6880.5; 04-MAY-2007 15:25:30; Dark ; 43.0;   4;   Alp1Cen ;-0.01; 5800;occ; 86;   0;27061
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   2; 3007.4; 04-MAY-2007 14:20:57; Bright;  36.0;   36; 50Alp UMa  ; 1.80;  6300;occ;  72;   0;27061
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  13; 6018.3; 15-MAY-2007 09:23:21; Dark  ;  42.5;   31;   Alp Gru  ; 1.73; 15200;occ;  85;   0;27215
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   8;   -5.5; 25-MAY-2007 07:28:36; Dark  ;  50.0;   63;   Bet Gru  ; 2.15;  2800;occ; 100;   0;27357
   9;   97.3; 25-MAY-2007 07:30:19; Dark  ;  46.0;   31;   Alp Gru  ; 1.73; 15200;occ;  92;   0;27358
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   9; 3935.4; 26-MAY-2007 11:23:52; Bright; 35.0;   76; 27Gam Cas ; 2.30; 30000;occ; 70;   0;27374
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  13; 5345.3; 26-MAY-2007 11:47:22; Dark ; 45.0;   52; 16Bet Cet ; 2.04; 4500;occ; 90;   0;27374
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  19; 6861.8; 26-MAY-2007 12:12:39; Dark ; 38.5; 141;   Bet Ara ; 2.84; 4600;occ; 77;   0;27374
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  21; 7141.5; 26-MAY-2007 12:17:18; Dark ; 47.5;   25; 35Lam Sco ; 1.62; 28000;occ; 95;   0;27374
  22; 7258.8; 26-MAY-2007 12:19:16; Dark ; 50.5;   75; 26Eps Sco ; 2.29; 4250;occ; 101;   0;27374
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   8; 3169.9; 26-MAY-2007 12:51:42; Bright; 36.5;   60; 7Bet UMi ; 2.08; 3950;occ; 73;   0;27375
   9; 3446.6; 26-MAY-2007 12:56:19; Bright; 34.5;   49; 1Alp UMi ; 1.99; 6300;occ; 69;   0;27375
  10; 3935.4; 26-MAY-2007 13:04:28; Bright; 45.5;   76; 27Gam Cas ; 2.30; 30000;occ; 91;   0;27375
  11; 4007.2; 26-MAY-2007 13:05:40; Bright; 37.5;   68; 18Alp Cas ; 2.22; 4500;occ; 75;   0;27375
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  17; 6044.4; 26-MAY-2007 13:39:37; Dark ; 57.0;   63;   Bet Gru ; 2.15; 2800;occ; 114;   0;27375
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  22; 7142.1; 26-MAY-2007 13:57:55; Dark ; 51.0;   25; 35Lam Sco ; 1.62; 28000;occ; 102;   0;27375
  23; 7259.2; 26-MAY-2007 13:59:52; Dark ; 45.5;   75; 26Eps Sco ; 2.29; 4250;occ; 91;   0;27375
  24; 7387.4; 26-MAY-2007 14:02:00; Dark ; 43.5; 136; 23Tau Sco ; 2.82; 30000;occ; 87;   0;27375
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   4; 2020.4; 26-MAY-2007 14:13:09; Bright; 38.0; 102; 24Alp Ser ; 2.60; 4250;occ; 76;   0;27376
   5; 2369.3; 26-MAY-2007 14:18:58; Bright; 35.0;   83;   ; 2.38; 11000;occ; 70;   0;27376
   6; 2559.6; 26-MAY-2007 14:22:08; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70;   0;27376
   7; 3032.2; 26-MAY-2007 14:30:01; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79;   0;27376
   8; 3170.0; 26-MAY-2007 14:32:18; Bright; 34.0;   60; 7Bet UMi ; 2.08; 3950;occ; 68;   0;27376

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  10; 3935.7; 26-MAY-2007 14:45:04; Bright;  52.0;   76; 27Gam Cas  ; 2.30; 30000;occ; 104;   0;27376
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  12; 4385.7; 26-MAY-2007 14:52:34; Bright;  39.0;   53; 43Bet And  ; 2.05;  3300;occ;  78;   0;27376
  13; 4814.8; 26-MAY-2007 14:59:43; Dark  ;  35.0;  140; 88Gam Peg  ; 2.83; 26000;occ;  70;   0;27376
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   3; 1738.1; 26-MAY-2007 15:49:02; Bright;  36.0;  104; 27Bet Lib  ; 2.61; 13100;occ;  72;   0;27377
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   5; 2020.3; 26-MAY-2007 15:53:45; Bright;  38.0;  102; 24Alp Ser  ; 2.60;  4250;occ;  76;   0;27377
   6; 2369.3; 26-MAY-2007 15:59:34; Bright;  34.5;   83;            ; 2.38; 11000;occ;  69;   0;27377
   7; 3031.8; 26-MAY-2007 16:10:36; Bright;  40.0;  119; 14Eta Dra  ; 2.73;  4700;occ;  80;   0;27377
   8; 3169.9; 26-MAY-2007 16:12:54; Bright;  35.5;   60;  7Bet UMi  ; 2.08;  3950;occ;  71;   0;27377
   9; 3446.8; 26-MAY-2007 16:17:31; Bright;  35.5;   49;  1Alp UMi  ; 1.99;  6300;occ;  71;   0;27377
  10; 3935.4; 26-MAY-2007 16:25:40; Bright;  54.0;   76; 27Gam Cas  ; 2.30; 30000;occ; 108;   0;27377
  11; 4007.1; 26-MAY-2007 16:26:51; Bright;  56.0;   68; 18Alp Cas  ; 2.22;  4500;occ; 112;   0;27377
  12; 4385.9; 26-MAY-2007 16:33:10; Bright;  39.5;   53; 43Bet And  ; 2.05;  3300;occ;  79;   0;27377
  13; 4815.3; 26-MAY-2007 16:40:20; Dark  ;  35.0;  140; 88Gam Peg  ; 2.83; 26000;occ;  70;   0;27377
  14; 5346.9; 26-MAY-2007 16:49:11; Dark  ;  47.5;   52; 16Bet Cet  ; 2.04;  4500;occ;  95;   0;27377
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  16; 5873.8; 26-MAY-2007 16:57:58; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;27377
  17; 6046.0; 26-MAY-2007 17:00:50; Dark  ;  51.5;   63;   Bet Gru  ; 2.15;  2800;occ; 103;   0;27377
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  19; 6467.0; 26-MAY-2007 17:07:51; Dark  ;  42.5;   45;   Alp Pav  ; 1.94; 26000;occ;  85;   0;27377
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   6; 1738.2; 26-MAY-2007 17:29:39; Bright;  37.0;  104; 27Bet Lib  ; 2.61; 13100;occ;  74;   0;27378
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   9; 2369.2; 26-MAY-2007 17:40:10; Bright;  37.0;   83;            ; 2.38; 11000;occ;  74;   0;27378
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  11; 3031.5; 26-MAY-2007 17:51:12; Bright;  39.5;  119; 14Eta Dra  ; 2.73;  4700;occ;  79;   0;27378
  12; 3169.8; 26-MAY-2007 17:53:30; Bright;  35.0;   60;  7Bet UMi  ; 2.08;  3950;occ;  70;   0;27378
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  19; 5753.1; 26-MAY-2007 18:36:34; Dark  ;  43.5;   84;   Alp Phe  ; 2.40;  4500;occ;  87;   0;27378
  20; 5874.3; 26-MAY-2007 18:38:35; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;27378
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  22; 7067.9; 31-MAY-2007 18:00:59; Dark  ;  52.0;   40;   The Sco  ; 1.86;  7100;occ; 104;   0;27449
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   1; 1031.8; 31-MAY-2007 18:00:59; Dark  ;  52.5;   40;   The Sco  ; 1.86;  7100;occ; 105;   0;27450
   2; 1139.9; 31-MAY-2007 18:02:48; Dark  ;  48.0;   25; 35Lam Sco  ; 1.62; 28000;occ;  96;   0;27450
   3; 1247.7; 31-MAY-2007 18:04:35; Dark  ;  45.5;   75; 26Eps Sco  ; 2.29;  4250;occ;  91;   0;27450
   4; 1370.5; 31-MAY-2007 18:06:38; Dark  ;  41.5;  136; 23Tau Sco  ; 2.82; 30000;occ;  83;   0;27450
   5; 1542.6; 31-MAY-2007 18:09:30; Bright;  37.5;   97;  8Bet1Sco  ; 2.56; 30000;occ;  75;   0;27450
   6; 1702.4; 31-MAY-2007 18:12:10; Bright;  41.0;   98; 13Zet Oph  ; 2.57; 30000;occ;  82;   0;27450
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 7; 1834.2; 31-MAY-2007 18:14:22; Bright;  39.5;  120;  1Del Oph  ; 2.73;  3200;occ;  79;   0;27450
 8; 2015.3; 31-MAY-2007 18:17:23; Bright;  36.5;  102; 24Alp Ser  ; 2.60;  4250;occ;  73;   0;27450
 9; 2370.5; 31-MAY-2007 18:23:18; Bright;  37.0;   67;  5Alp CrB  ; 2.22; 11000;occ;  74;   0;27450
10; 3007.9; 31-MAY-2007 18:33:56; Bright;  40.0;  119; 14Eta Dra  ; 2.73;  4700;occ;  80;   0;27450
11; 3166.3; 31-MAY-2007 18:36:34; Bright;  35.5;   60;  7Bet UMi  ; 2.08;  3950;occ;  71;   0;27450
12; 3446.8; 31-MAY-2007 18:41:14; Bright;  36.0;   49;  1Alp UMi  ; 1.99;  6300;occ;  72;   0;27450
13; 3930.1; 31-MAY-2007 18:49:18; Bright;  37.5;   76; 27Gam Cas  ; 2.30; 30000;occ;  75;   0;27450
14; 4393.3; 31-MAY-2007 18:57:01; Bright;  44.5;   53; 43Bet And  ; 2.05;  3300;occ;  89;   0;27450
15; 5386.3; 31-MAY-2007 19:13:34; Dark  ;  46.5;   52; 16Bet Cet  ; 2.04;  4500;occ;  93;   0;27450
16; 5647.2; 31-MAY-2007 19:17:55; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;27450
17; 5788.9; 31-MAY-2007 19:20:17; Dark  ;  47.5;   84;   Alp Phe  ; 2.40;  4500;occ;  95;   0;27450
18; 6105.3; 31-MAY-2007 19:25:33; Dark  ;  51.5;   63;   Bet Gru  ; 2.15;  2800;occ; 103;   0;27450
19; 6216.9; 31-MAY-2007 19:27:25; Dark  ;  44.5;   31;   Alp Gru  ; 1.73; 15200;occ;  89;   0;27450
20; 6517.8; 31-MAY-2007 19:32:25; Dark  ;  41.5;   45;   Alp Pav  ; 1.94; 26000;occ;  83;   0;27450
21; 6892.5; 31-MAY-2007 19:38:40; Dark  ;  38.5;  141;   Bet Ara  ; 2.84;  4600;occ;  77;   0;27450
22; 6967.1; 31-MAY-2007 19:39:55; Dark  ;  38.5;  147;   Alp Ara  ; 2.88; 26000;occ;  77;   0;27450
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