GOMOS Daily Report 19-MAR-2008

Level 0 and Level 1 products

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Level 2 products

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1. General Info

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P).
It is intended to monitor some important parameters that will impact the quality of the level 2 products
as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle...
A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

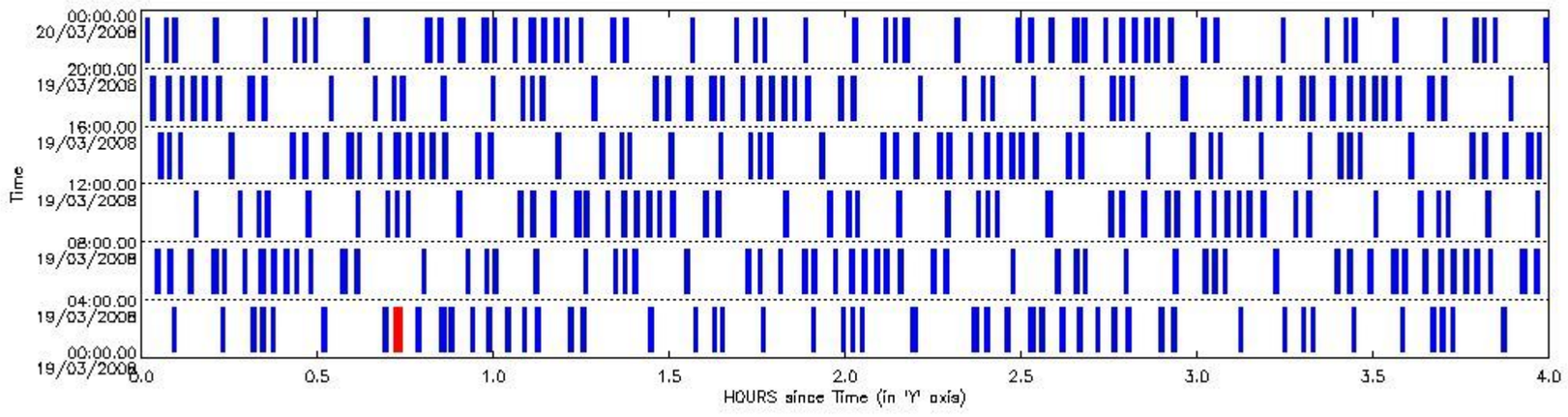
Item	Value
Time of report generation	21MAR2008 05:32:13
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (19MAR2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (20MAR2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	1

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)

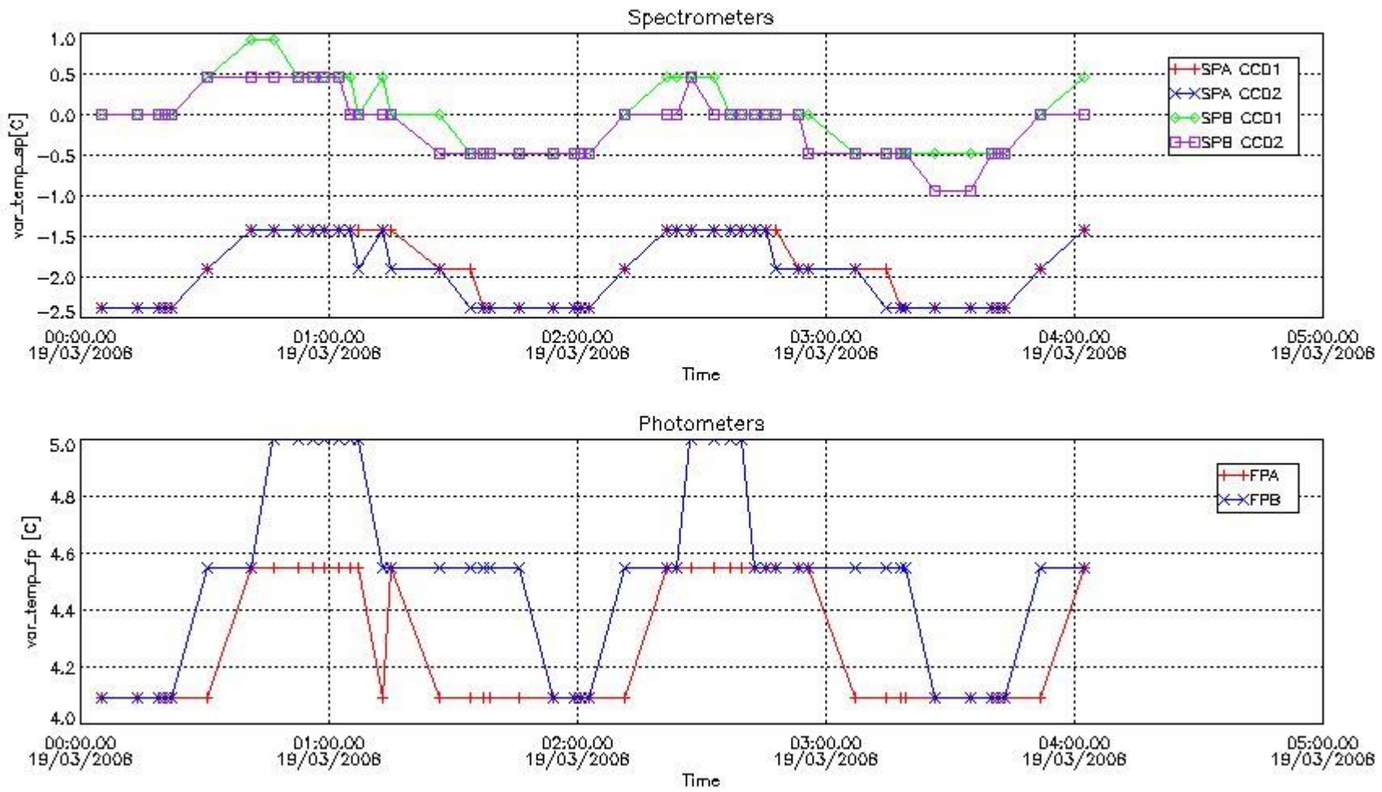
UTC start time	Star name	Star ID	Orbit
19-MAR-2008 00:43:09	34SigSgr	57	31633

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_1PNPDE20080319_000511_000000412067_00016_31633_8606.N1	19-MAR-2008 00:05:11	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	31633	No
2	GOM_TRA_1PNPDE20080319_001335_000000352067_00016_31633_8607.N1	19-MAR-2008 00:13:35	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	31633	No
3	GOM_TRA_1PNPDE20080319_001843_000000382067_00016_31633_8608.N1	19-MAR-2008 00:18:43	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	31633	No
4	GOM_TRA_1PNPDE20080319_002017_000000392067_00016_31633_8609.N1	19-MAR-2008 00:20:17	Bright	39.000	66	37Gam Cyg	2.2080	5900.0	78	31633	No
5	GOM_TRA_1PNPDE20080319_002203_000000372067_00016_31633_8610.N1	19-MAR-2008 00:22:03	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	31633	No
6	GOM_TRA_1PNPDE20080319_003038_000000562067_00016_31633_8611.N1	19-MAR-2008 00:30:38	Twi_and_stray	56.000	11	53Alp Aql	0.76500	8000.0	112	31633	No
7	GOM_TRA_1PNPDE20080319_004107_000000512067_00016_31633_8612.N1	19-MAR-2008 00:41:07	Dark	50.500	155	41Pi Sgr	2.9000	6600.0	101	31633	No
8	GOM_TRA_1PNPDE20080319_004643_000000502067_00016_31633_8613.N1	19-MAR-2008 00:46:43	Dark	49.500	38	20Eps Sgr	1.8360	11000.	99	31633	No
9	GOM_TRA_1PNPDE20080319_005230_000000422067_00017_31634_8614.N1	19-MAR-2008 00:52:30	Dark	41.500	141	Bet Ara	2.8400	4600.0	83	31634	No
10	GOM_TRA_1PNPDE20080319_005606_000000402067_00017_31634_8615.N1	19-MAR-2008 00:56:06	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	31634	No

11	GOM_TRA_1PNPDE20080319_005850_000000552067_00017_31634_8616.N1	19-MAR-2008 00:58:50	Dark	55.000	4	Alp1Cen	-0.010000	5800.0	110	31634	No
12	GOM_TRA_1PNPDE20080319_010209_000000452067_00017_31634_8617.N1	19-MAR-2008 01:02:09	Straylight	45.000	20	Bet Cru	1.2530	30000.	90	31634	No
13	GOM_TRA_1PNPDE20080319_010454_000000422067_00017_31634_8618.N1	19-MAR-2008 01:04:54	Straylight	41.500	64	Gam Cen	2.2000	10600.	83	31634	No
14	GOM_TRA_1PNPDE20080319_010712_000000492067_00017_31634_8619.N1	19-MAR-2008 01:07:12	Straylight	48.500	123	Iot Cen	2.7500	10200.	97	31634	No
15	GOM_TRA_1PNPDE20080319_011246_000000492067_00017_31634_8757.N1	19-MAR-2008 01:12:46	Straylight	49.000	106	9Bet Crv	2.6480	5600.0	98	31634	Yes
16	GOM_TRA_1PNPDE20080319_011500_000000452067_00017_31634_8758.N1	19-MAR-2008 01:15:00	Twi_and_stray	44.500	100	4Gam Crv	2.5800	13100.	89	31634	No
17	GOM_TRA_1PNPDE20080319_012631_000000372067_00017_31634_8759.N1	19-MAR-2008 01:26:31	Bright	36.500	51	41Gam1Leo	2.0100	4500.0	73	31634	No
18	GOM_TRA_1PNPDE20080319_013403_000000392067_00017_31634_8760.N1	19-MAR-2008 01:34:03	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	31634	No
19	GOM_TRA_1PNPDE20080319_013718_000000352067_00017_31634_8761.N1	19-MAR-2008 01:37:18	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	31634	No
20	GOM_TRA_1PNPDE20080319_013848_000000362067_00017_31634_8762.N1	19-MAR-2008 01:38:48	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	31634	No
21	GOM_TRA_1PNPDE20080319_014546_000000372067_00017_31634_8763.N1	19-MAR-2008 01:45:46	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	31634	No
22	GOM_TRA_1PNPDE20080319_015411_000000362067_00017_31634_8764.N1	19-MAR-2008 01:54:11	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	31634	No
23	GOM_TRA_1PNPDE20080319_015918_000000392067_00017_31634_8765.N1	19-MAR-2008 01:59:18	Bright	38.500	19	50Alp Cyg	1.2460	10500.	77	31634	No
24	GOM_TRA_1PNPDE20080319_020053_000000392067_00017_31634_8766.N1	19-MAR-2008 02:00:53	Bright	38.500	66	37Gam Cyg	2.2080	5900.0	77	31634	No
25	GOM_TRA_1PNPDE20080319_020239_000000362067_00017_31634_8767.N1	19-MAR-2008 02:02:39	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	31634	No
26	GOM_TRA_1PNPDE20080319_021114_000000532067_00017_31634_8768.N1	19-MAR-2008 02:11:14	Twi_and_stray	53.000	11	53Alp Aql	0.76500	8000.0	106	31634	No
27	GOM_TRA_1PNPDE20080319_022143_000000502067_00017_31634_8769.N1	19-MAR-2008 02:21:43	Dark	50.000	155	41Pi Sgr	2.9000	6600.0	100	31634	No
28	GOM_TRA_1PNPDE20080319_022348_000000482067_00017_31634_8770.N1	19-MAR-2008 02:23:48	Dark	48.000	57	34Sig Sgr	2.0660	26000.	96	31634	No
29	GOM_TRA_1PNPDE20080319_022720_000000472067_00017_31634_8771.N1	19-MAR-2008 02:27:20	Dark	47.000	38	20Eps Sgr	1.8360	11000.	94	31634	No
30	GOM_TRA_1PNPDE20080319_023306_000000442067_00018_31635_8772.N1	19-MAR-2008 02:33:06	Dark	43.500	141	Bet Ara	2.8400	4600.0	87	31635	No
31	GOM_TRA_1PNPDE20080319_023642_000000382067_00018_31635_8773.N1	19-MAR-2008 02:36:42	Dark	38.000	134	Bet TrA	2.8100	6600.0	76	31635	No
32	GOM_TRA_1PNPDE20080319_023926_000000572067_00018_31635_8774.N1	19-MAR-2008 02:39:26	Dark	57.000	4	Alp1Cen	-0.010000	5800.0	114	31635	No
33	GOM_TRA_1PNPDE20080319_024245_000000392067_00018_31635_8775.N1	19-MAR-2008 02:42:45	Dark	39.000	20	Bet Cru	1.2530	30000.	78	31635	No
34	GOM_TRA_1PNPDE20080319_024531_000000402067_00018_31635_8776.N1	19-MAR-2008 02:45:31	Straylight	40.000	64	Gam Cen	2.2000	10600.	80	31635	No
35	GOM_TRA_1PNPDE20080319_024748_000000492067_00018_31635_8777.N1	19-MAR-2008 02:47:48	Straylight	48.500	123	Iot Cen	2.7500	10200.	97	31635	No
36	GOM_TRA_1PNPDE20080319_025322_000000532067_00018_31635_8778.N1	19-MAR-2008 02:53:22	Straylight	52.500	106	9Bet Crv	2.6480	5600.0	105	31635	No
37	GOM_TRA_1PNPDE20080319_025536_000000462067_00018_31635_8904.N1	19-MAR-2008 02:55:36	Twi_and_stray	46.000	100	4Gam Crv	2.5800	13100.	92	31635	No
38	GOM_TRA_1PNPDE20080319_030707_000000392067_00018_31635_8905.N1	19-MAR-2008 03:07:07	Bright	38.500	51	41Gam1Leo	2.0100	4500.0	77	31635	No
39	GOM_TRA_1PNPDE20080319_031439_000000382067_00018_31635_8906.N1	19-MAR-2008 03:14:39	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	31635	No
40	GOM_TRA_1PNPDE20080319_031753_000000362067_00018_31635_8907.N1	19-MAR-2008 03:17:53	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	31635	No
41	GOM_TRA_1PNPDE20080319_031924_000000382067_00018_31635_8908.N1	19-MAR-2008 03:19:24	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	31635	No
42	GOM_TRA_1PNPDE20080319_032622_000000422067_00018_31635_8909.N1	19-MAR-2008 03:26:22	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	31635	No
43	GOM_TRA_1PNPDE20080319_033447_000000362067_00018_31635_8910.N1	19-MAR-2008 03:34:47	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	31635	No
44	GOM_TRA_1PNPDE20080319_033954_000000372067_00018_31635_8911.N1	19-MAR-2008 03:39:54	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	31635	No
45	GOM_TRA_1PNPDE20080319_034129_000000382067_00018_31635_8912.N1	19-MAR-2008 03:41:29	Bright	37.500	66	37Gam Cyg	2.2080	5900.0	75	31635	No
46	GOM_TRA_1PNPDE20080319_034315_000000382067_00018_31635_8913.N1	19-MAR-2008 03:43:15	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	31635	No
47	GOM_TRA_1PNPDE20080319_035151_000000532067_00018_31635_8914.N1	19-MAR-2008 03:51:51	Twi_and_stray	52.500	11	53Alp Aql	0.76500	8000.0	105	31635	No
48	GOM_TRA_1PNPDE20080319_040220_000000502067_00018_31635_8915.N1	19-MAR-2008 04:02:20	Dark	49.500	155	41Pi Sgr	2.9000	6600.0	99	31635	No

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

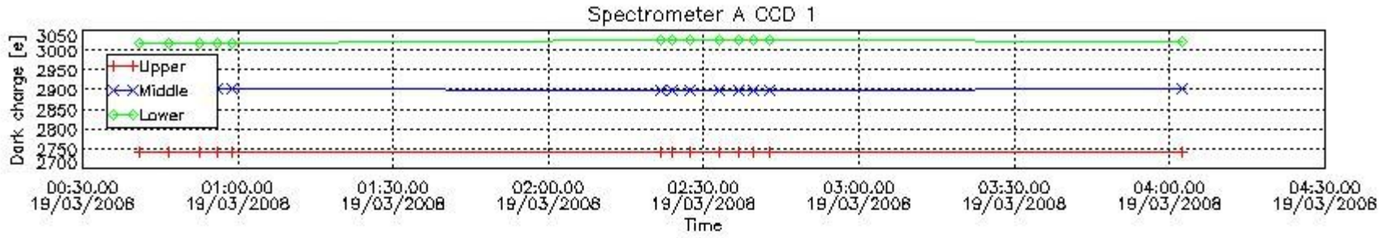


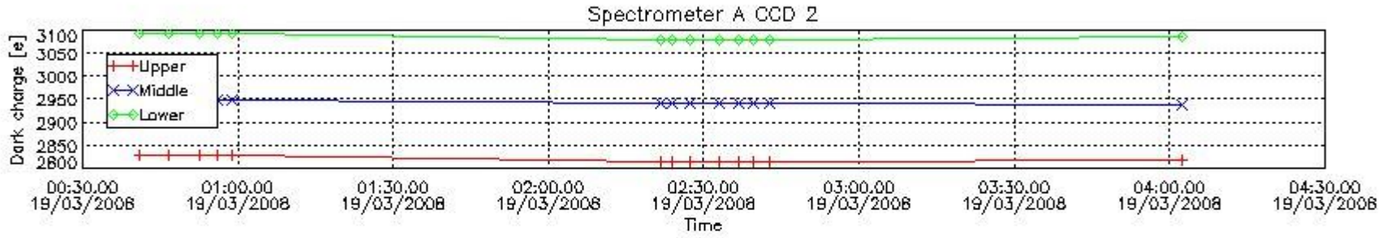
4. Overview of dark signal processing per product

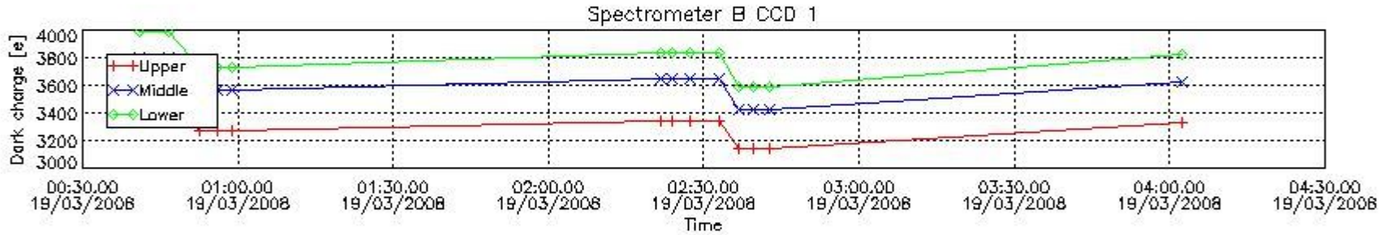
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

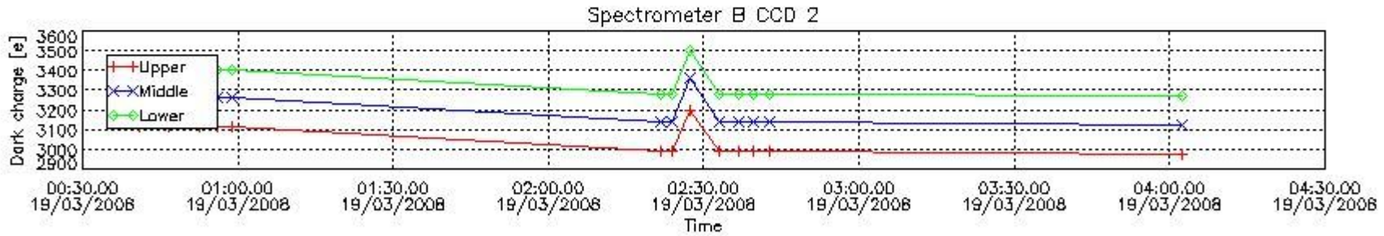
4.1 All products used the DSA observation for the DC computation

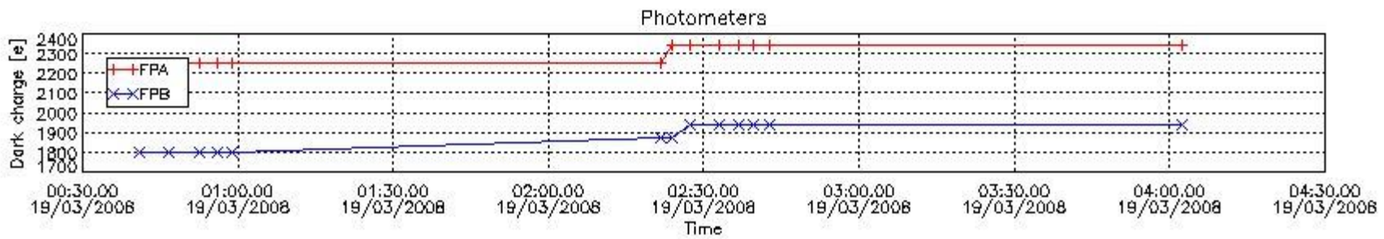
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











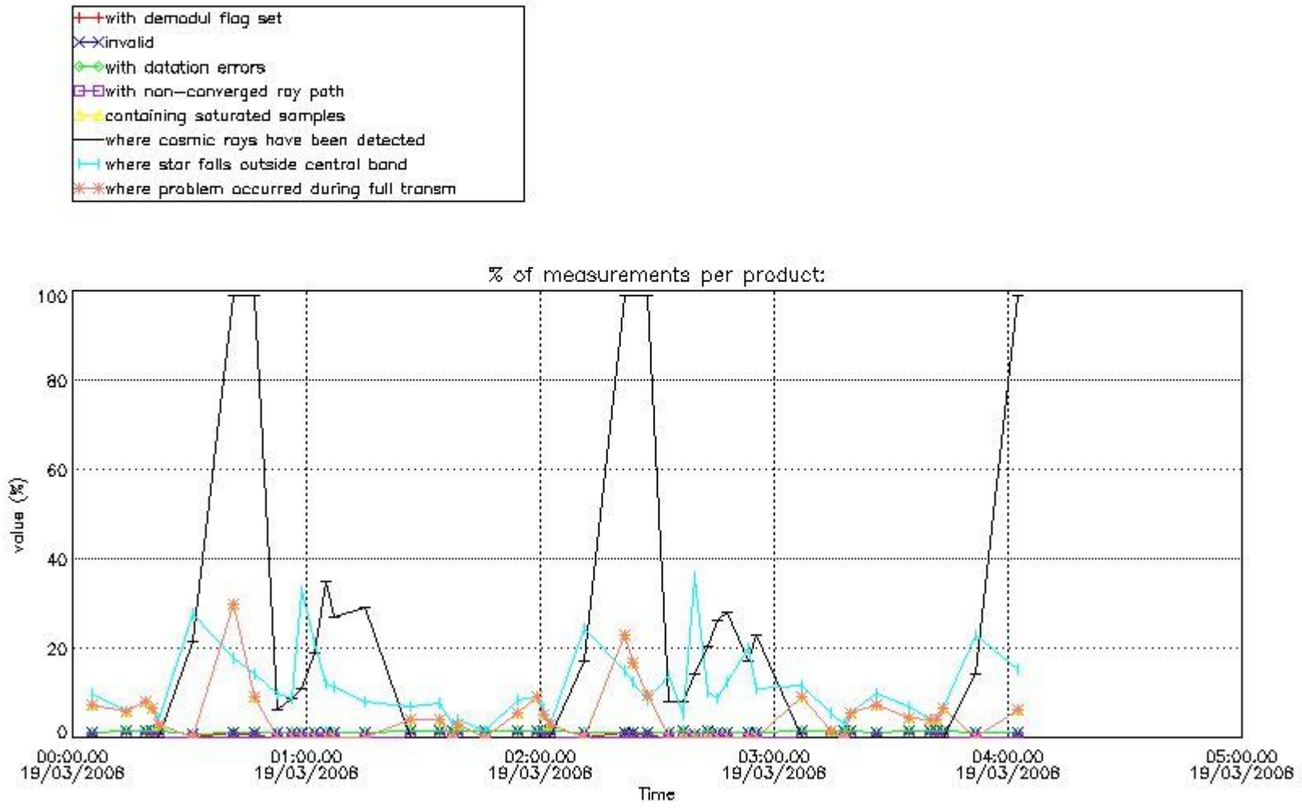
5. Demodulation flag and quality information monitoring

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:

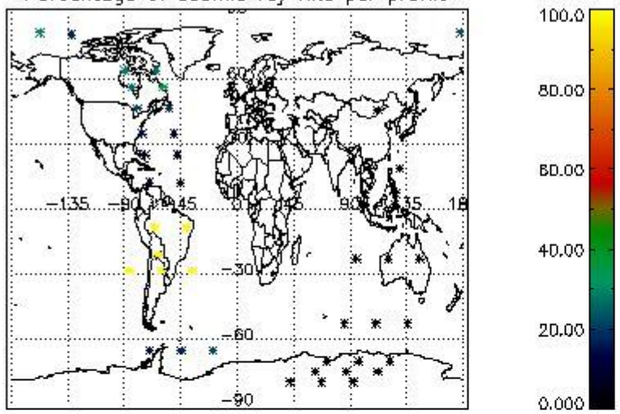
At least one measurement with demodulation flag set:	17.0213 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

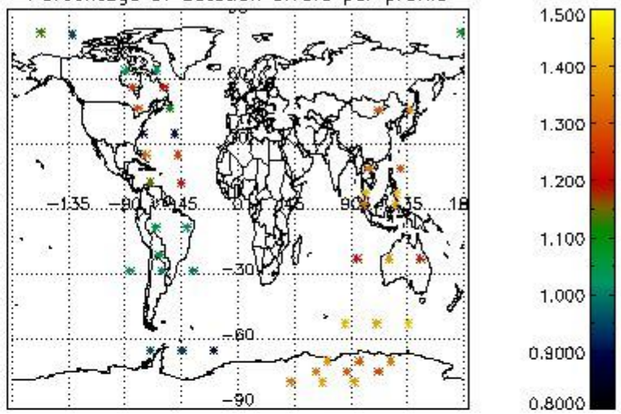


5.3 Plot quality information per product (world map)

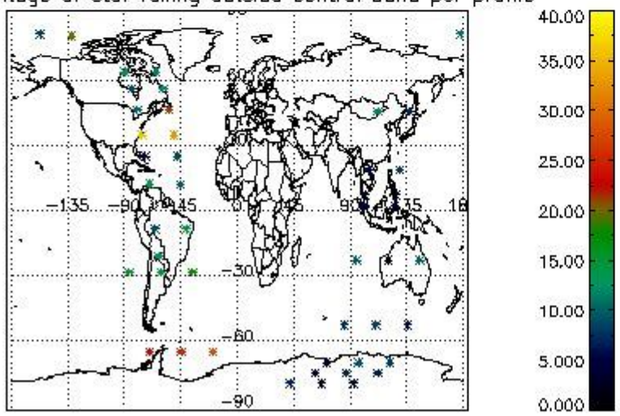
Percentage of cosmic ray hits per profile



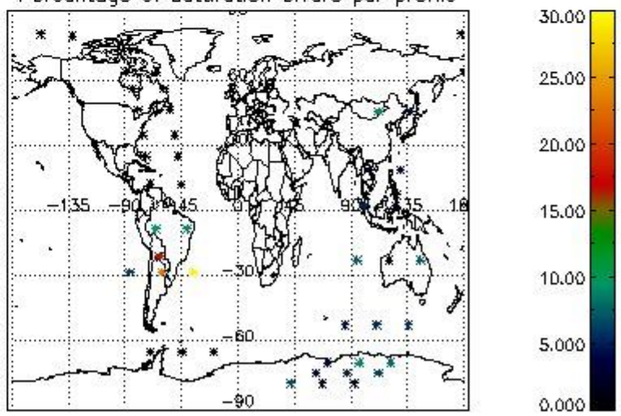
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



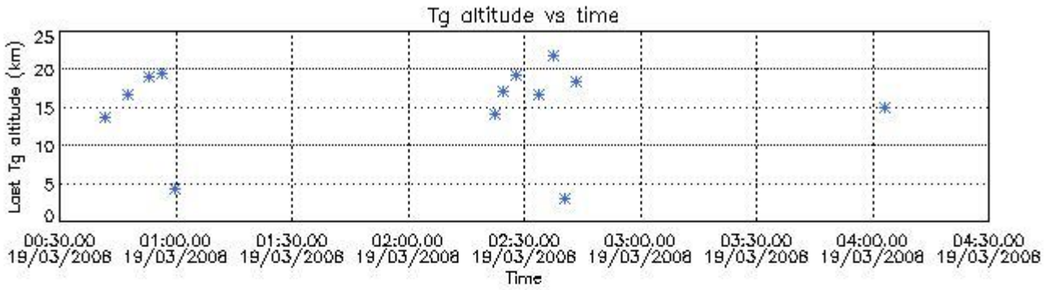
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

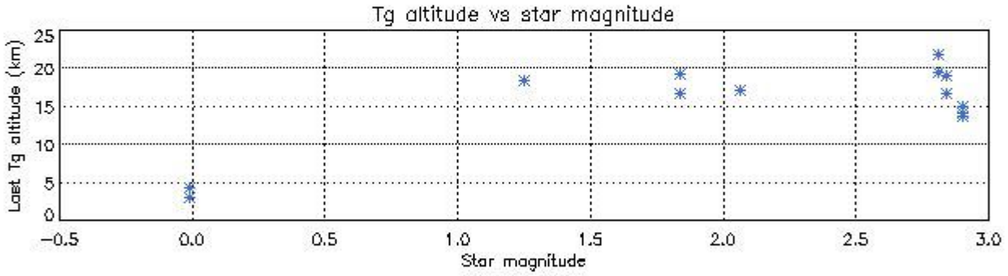
6.1 Statistics on tangent altitude lost:

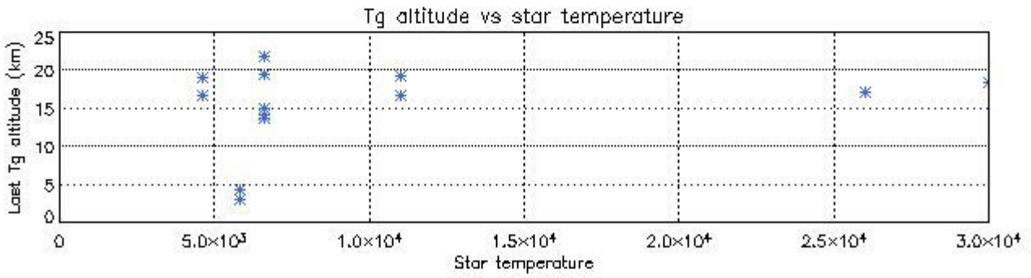
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.218	21.475	NaN
St. deviation:	5.6516	2.5109	NaN
Maximum:	21.698	27.634	NaN
Minimum:	2.8982	16.256	NaN
Number of data:	13.000	23.000	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

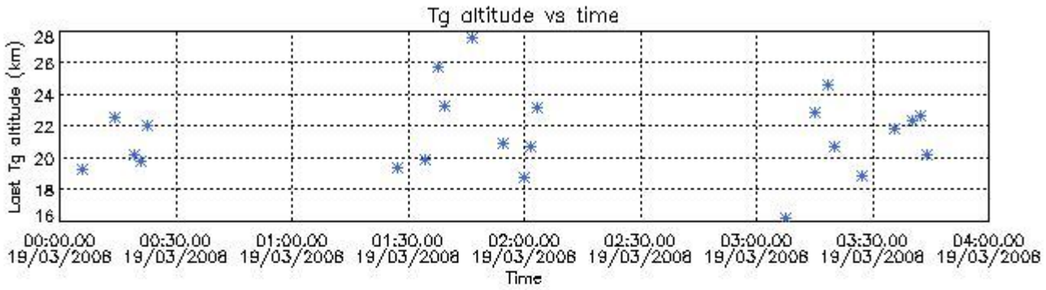


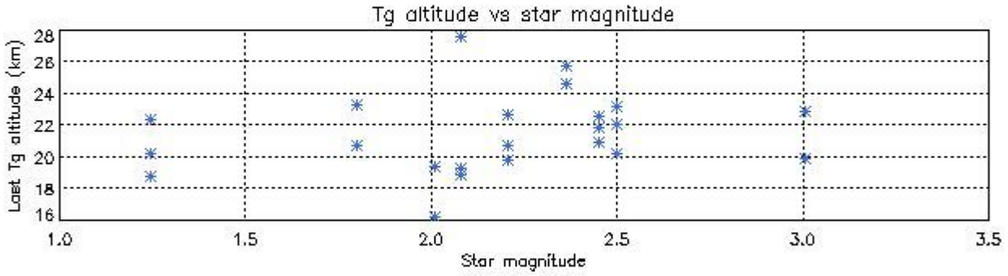


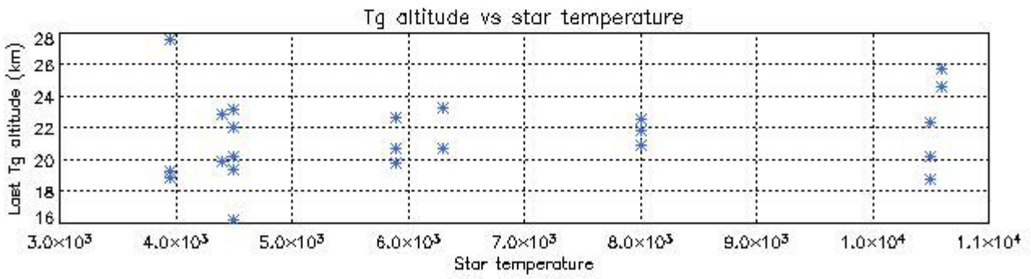


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost





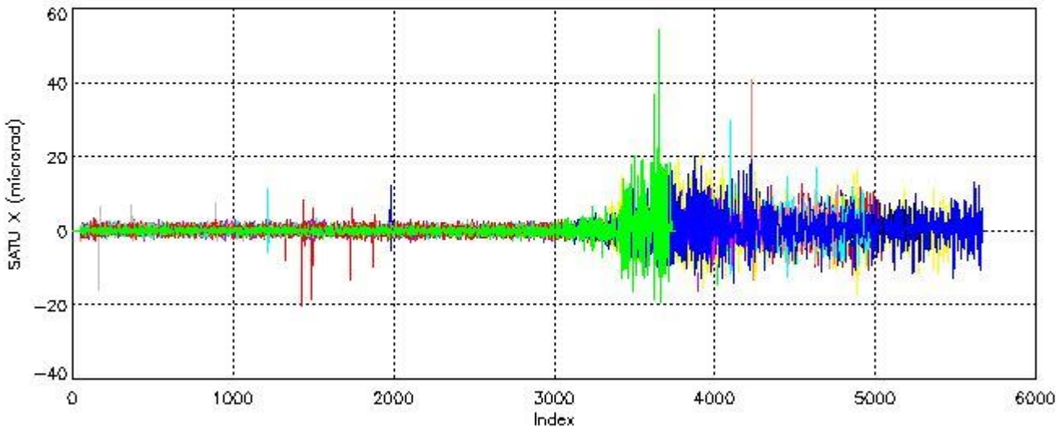


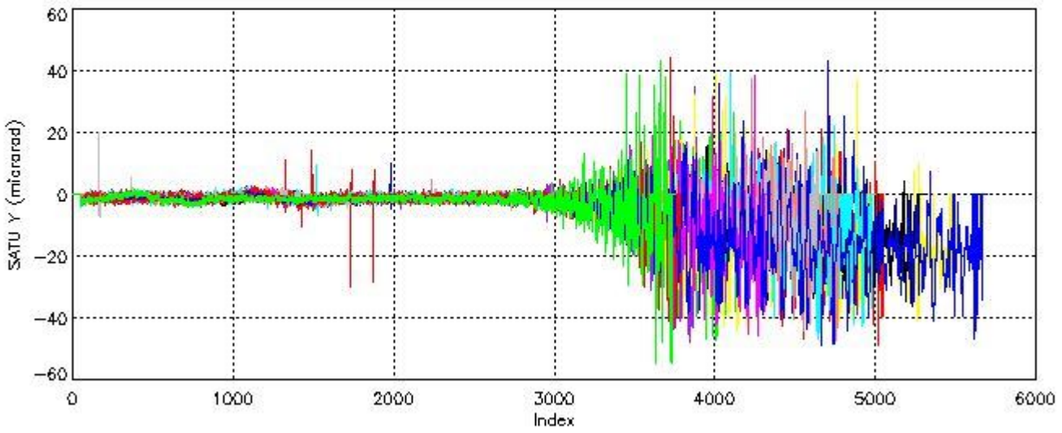
7. Star Acquisition and Tracking Unit (SATU)

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:	0.22233	-1.1740	0.11781	-1.3115
St. deviation:	0.58754	0.74559	0.55013	1.0279
Maximum:	7.3000	19.800	3.6000	3.0000
Minimum:	-15.900	-7.2000	-3.0000	-5.6000

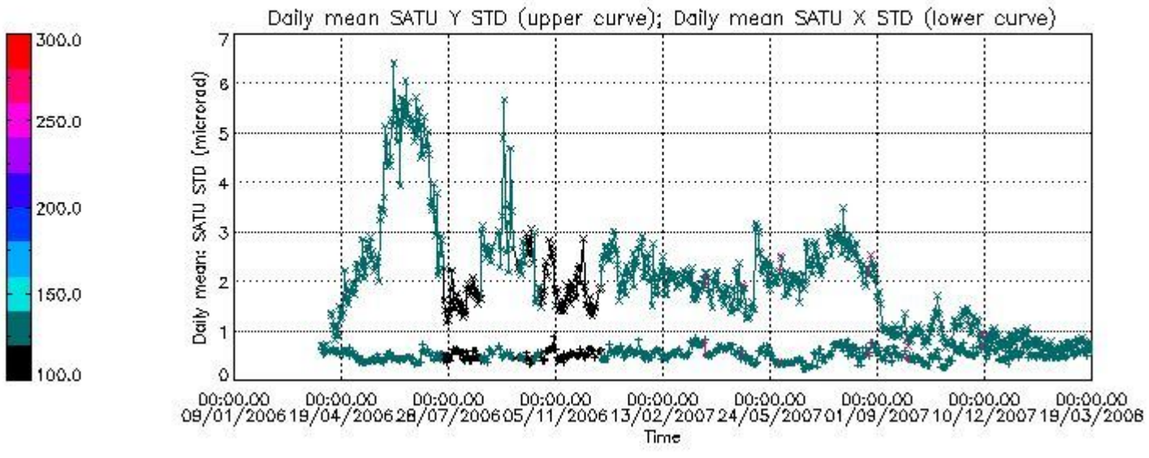
Number of data:	13300.	13300.	19600.	19600.

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.

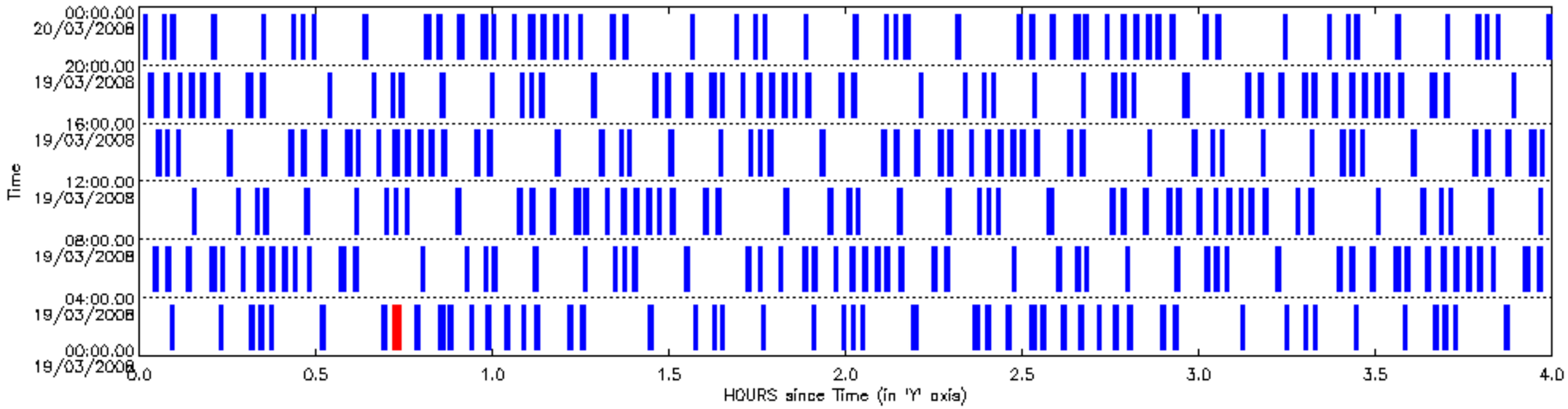
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

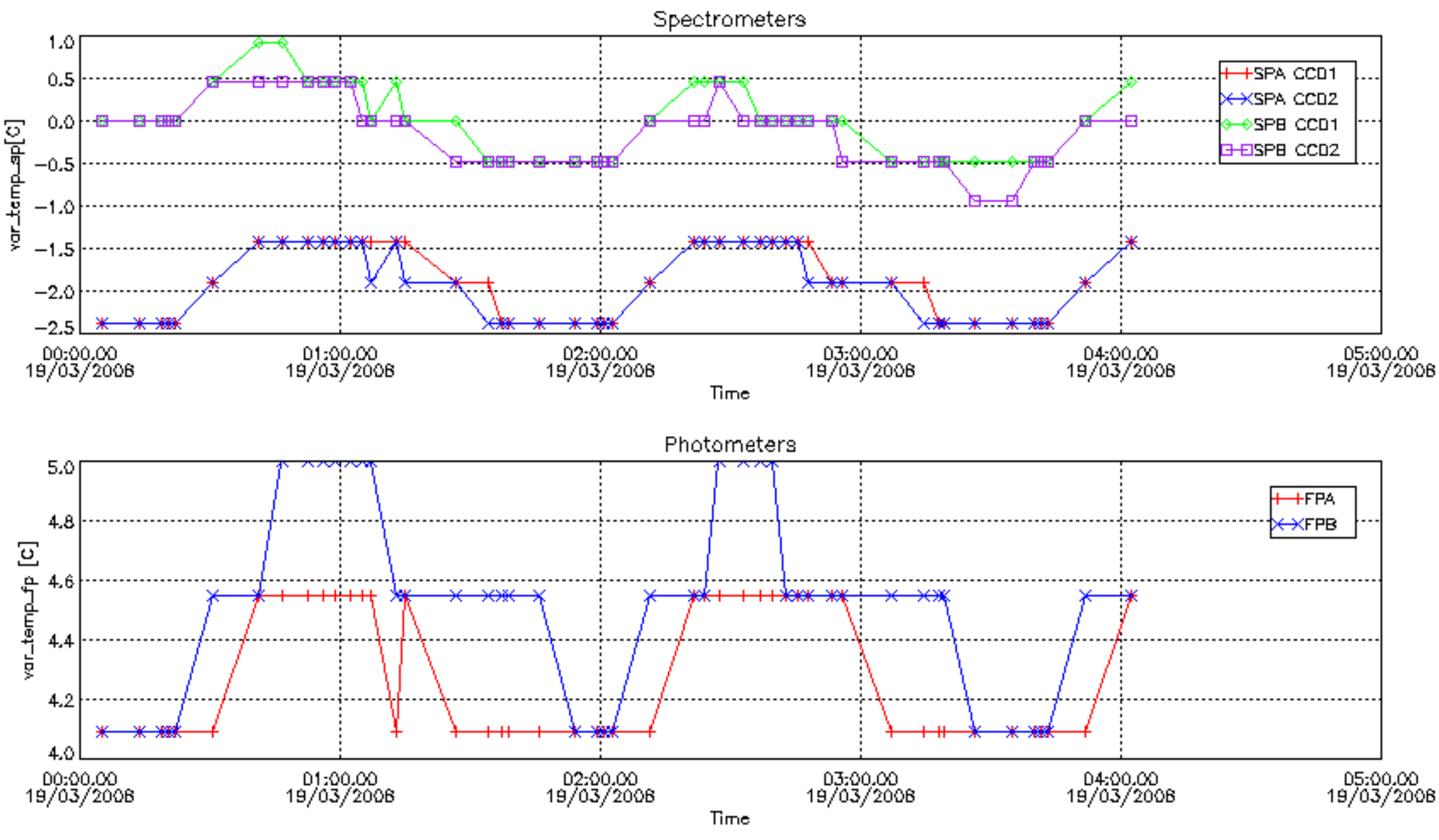


8. Auxiliary Data Files used for the production reported in section 2.4

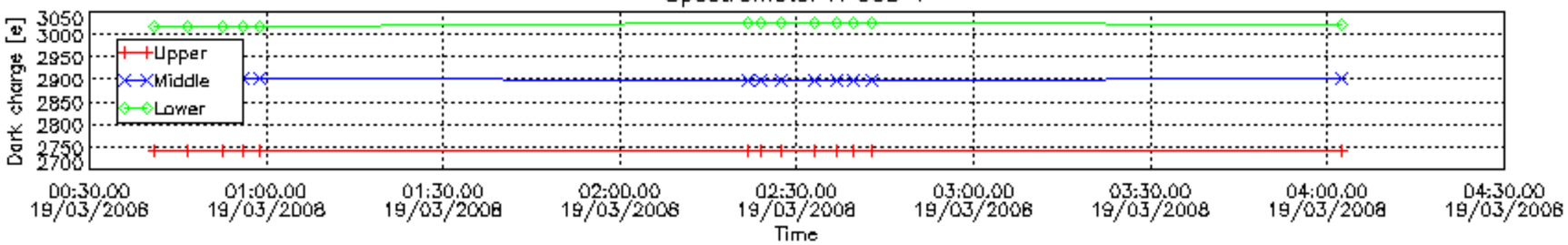
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	19-MAR-2008 00:05:11
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080222_094723_20080220_000000_20100101_000000	1	19-MAR-2008 00:05:11
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	19-MAR-2008 00:05:11
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-MAR-2008 00:05:11
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	19-MAR-2008 00:05:11
ECMWF_FILE	AUX_ECF_AXNECM20080318_073110_20080318_210000_20080319_090000	1	19-MAR-2008 00:05:11
OPTIONAL_ECMWF_FILE	MISSING	1	19-MAR-2008 00:05:11
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20080318_214530_000057382067_00015_31632_5242.N1	1	19-MAR-2008 00:05:11
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20080318_232627_000060572067_00016_31633_5243.N1	15	19-MAR-2008 01:12:46
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20080319_011243_000057382067_00017_31634_5244.N1	37	19-MAR-2008 02:55:36

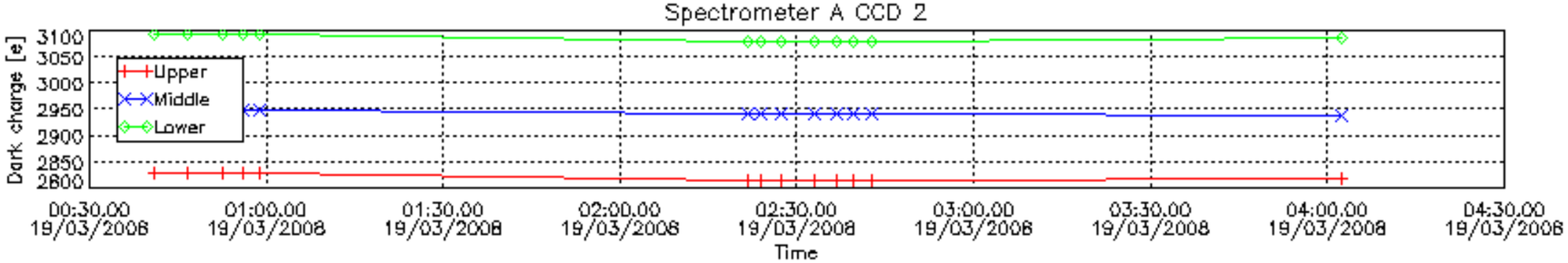

00:00.00
20/03/2008
20:00.00
19/03/2008
16:00.00
19/03/2008
12:00.00
19/03/2008
08:00.00
19/03/2008
04:00.00
19/03/2008
00:00.00
19/03/2008
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)


Spectrometers
var_temp_sp[C]
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
19/03/2006
01:00.00
19/03/2006
02:00.00
19/03/2006
03:00.00
19/03/2006
04:00.00
19/03/2006
05:00.00
19/03/2006
Time
Photometers
var_temp_fp [C]
5.0
4.8
4.6
4.4
4.2
4.0
FPA
FPB
00:00.00
19/03/2006
01:00.00
19/03/2006
02:00.00
19/03/2006
03:00.00
19/03/2006
04:00.00
19/03/2006
05:00.00
19/03/2006
Time

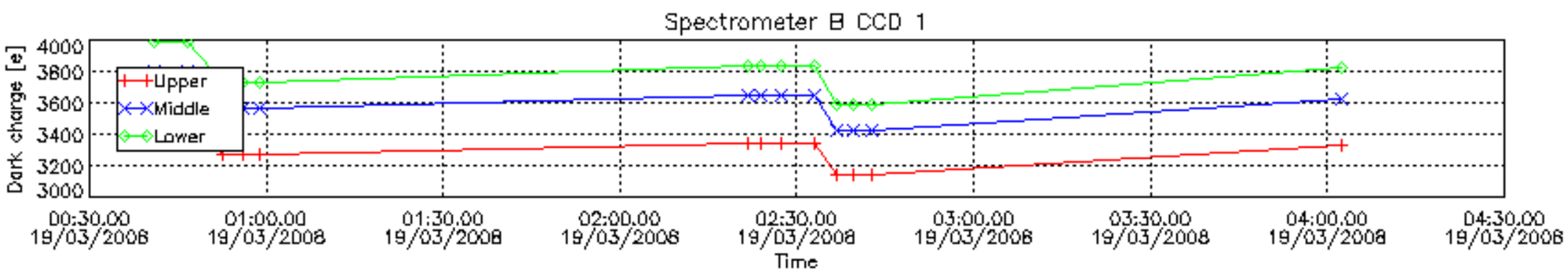
Spectrometer A CCD 1



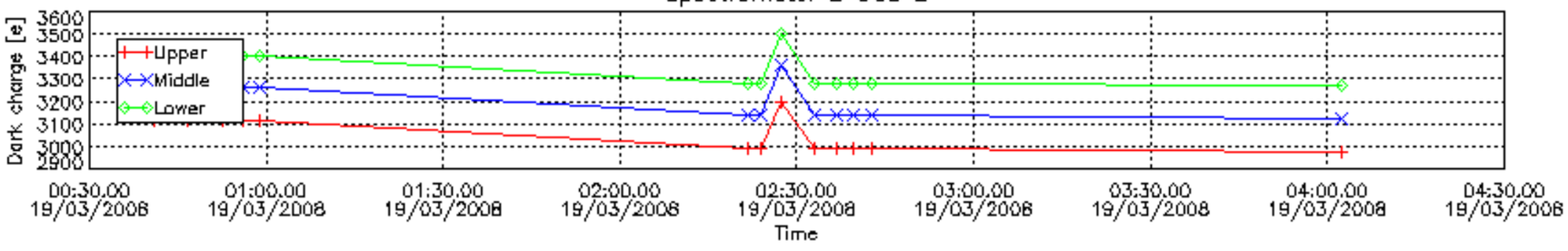
Spectrometer A CCD 2



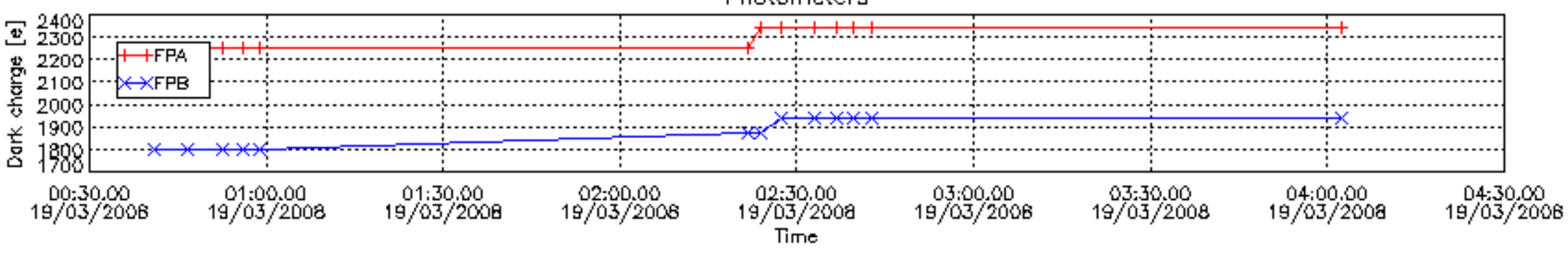
Spectrometer B CCD 1

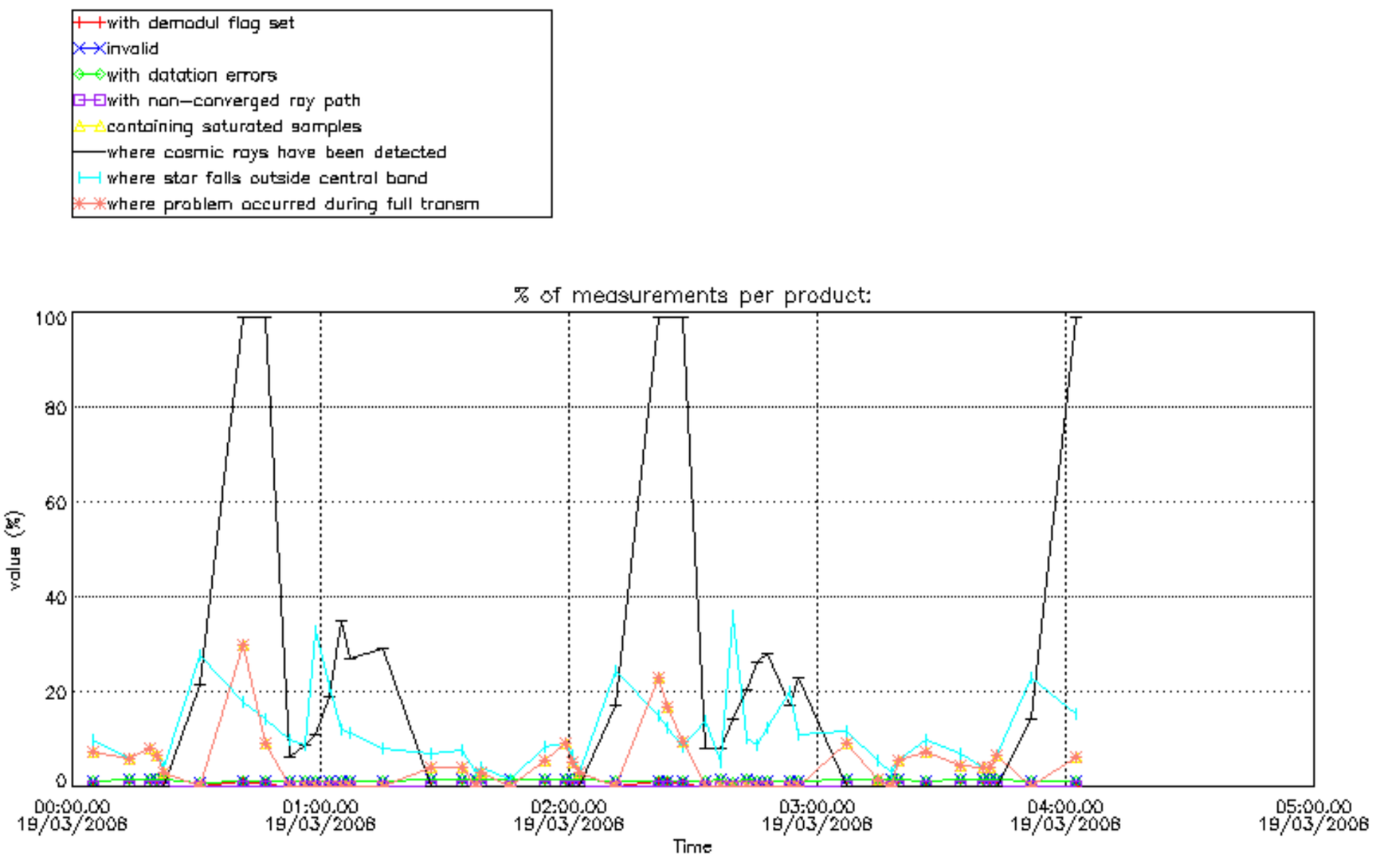


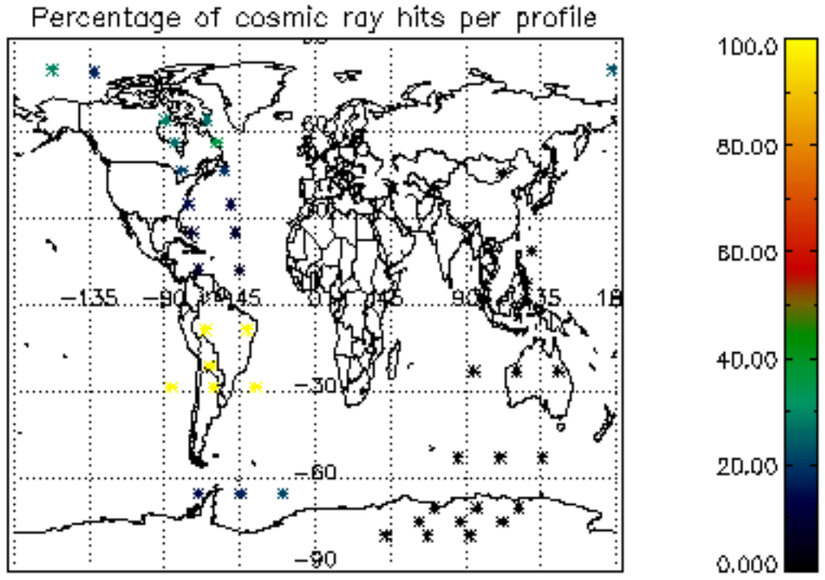
Spectrometer B CCD 2

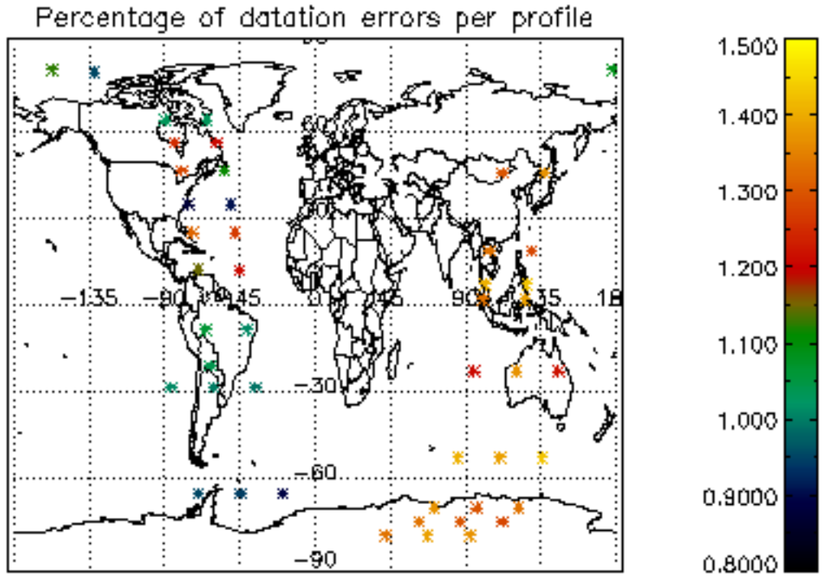


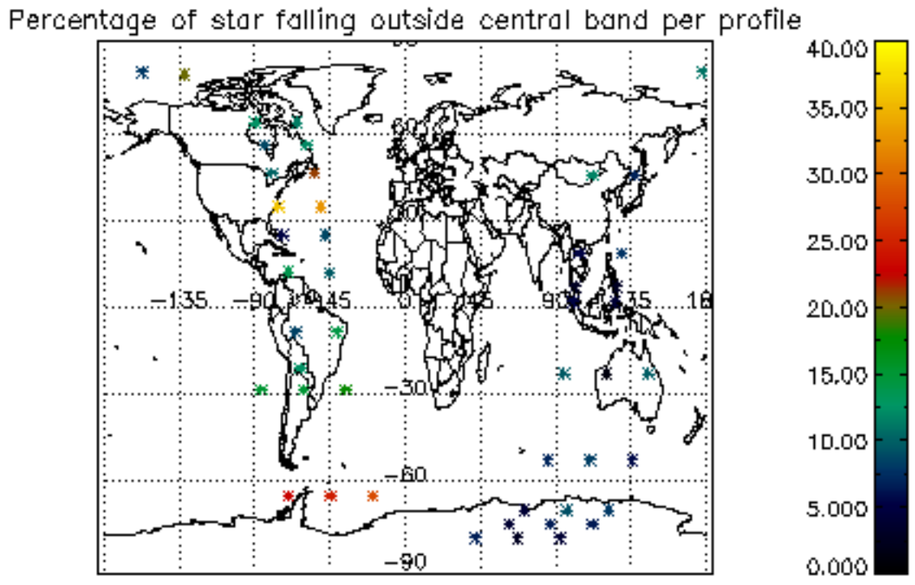
Photometers

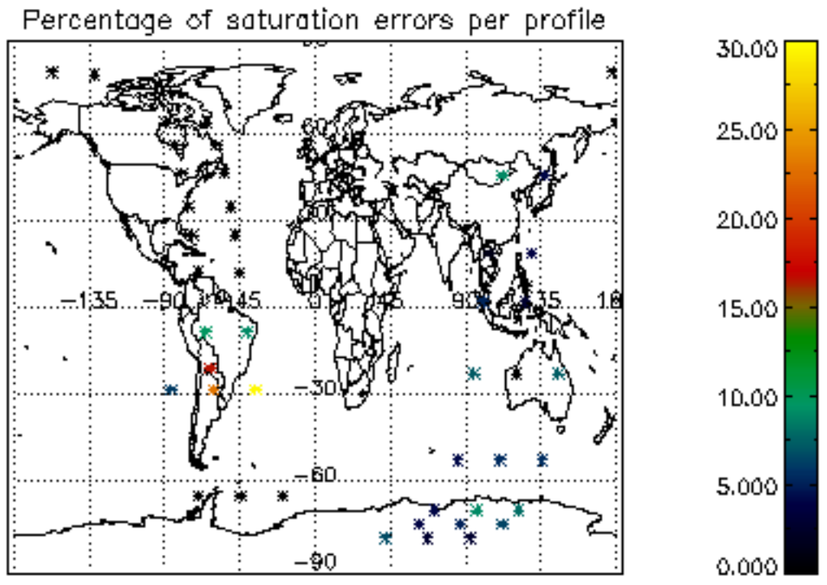



with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
value (%)
100
80
60
40
20
0
00:00.00 19/03/2006
01:00.00 19/03/2006
02:00.00 19/03/2006
03:00.00 19/03/2006
04:00.00 19/03/2006
05:00.00 19/03/2006
Time

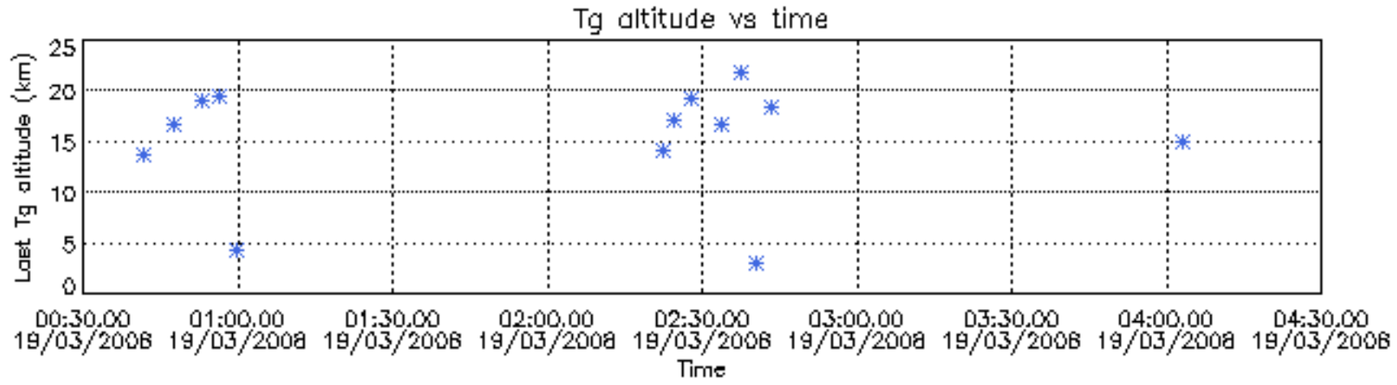

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−30
−60
−90

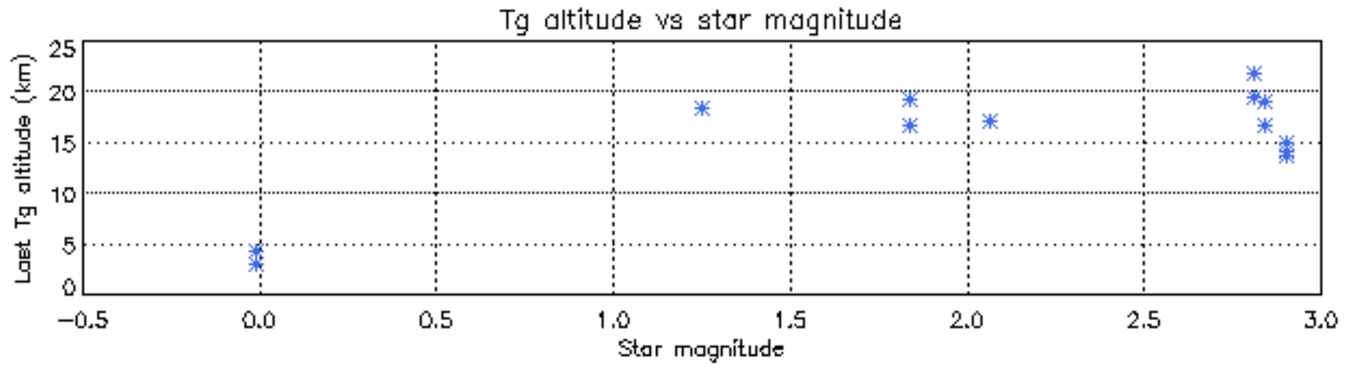

Percentage of datation errors per profile
1.500
1.400
1.300
1.200
1.100
1.000
0.9000
0.8000
−135
−90
−30
−60
−90

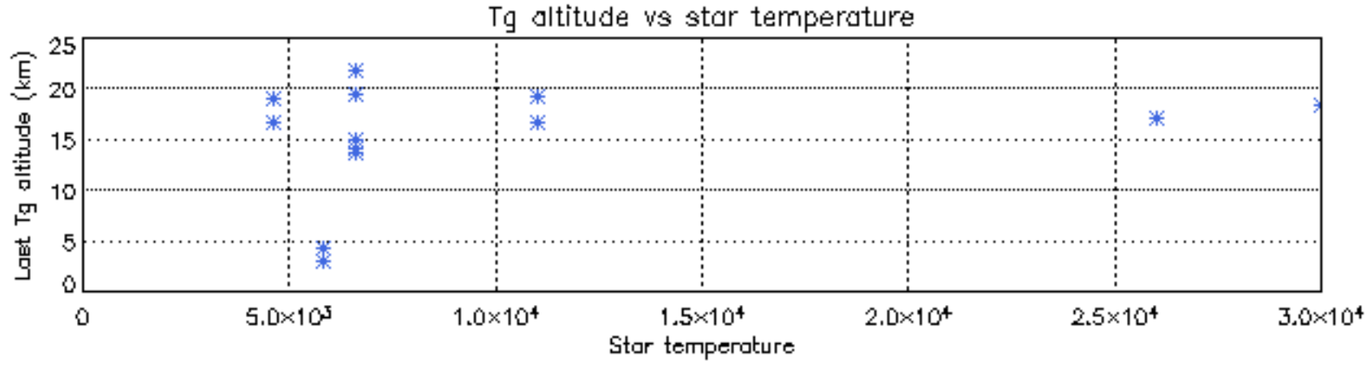

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90


Percentage of saturation errors per profile
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90

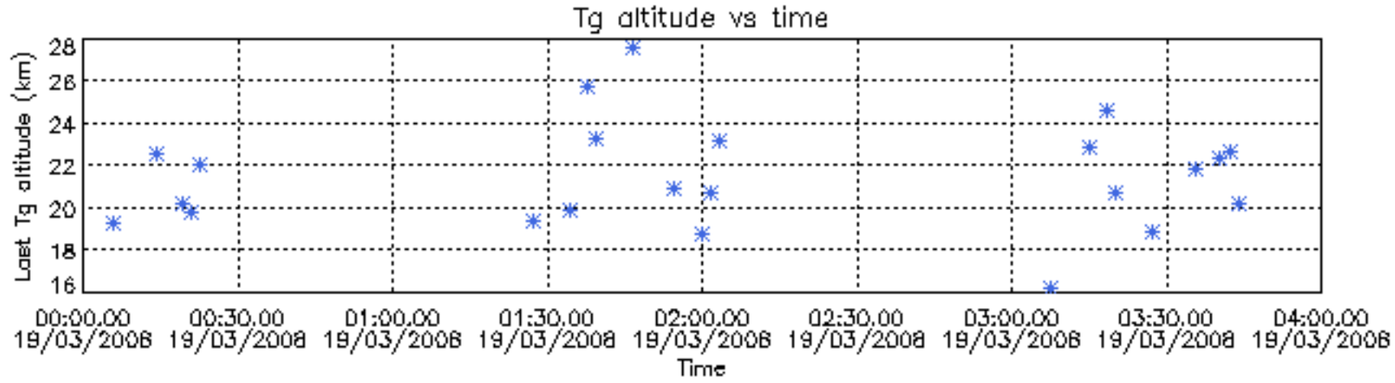
Tangent altitude at which the star is lost

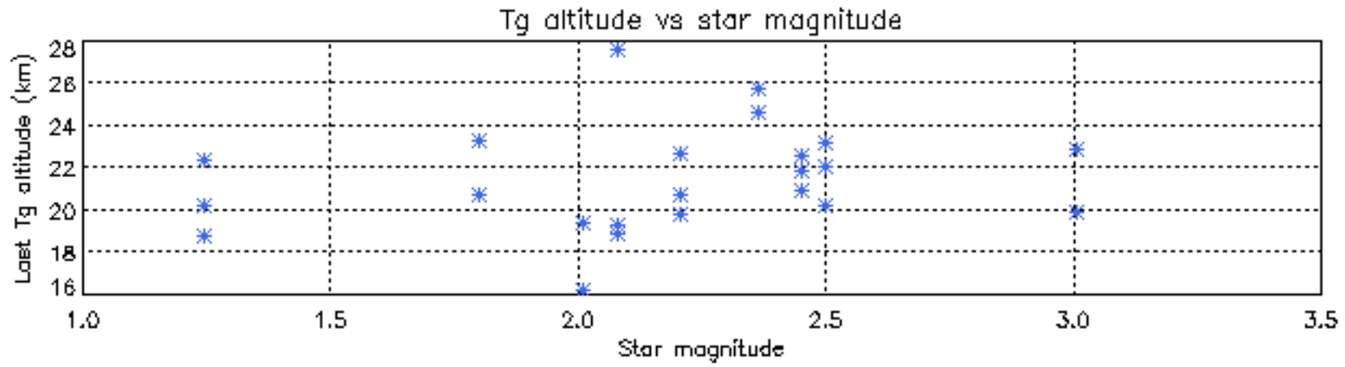


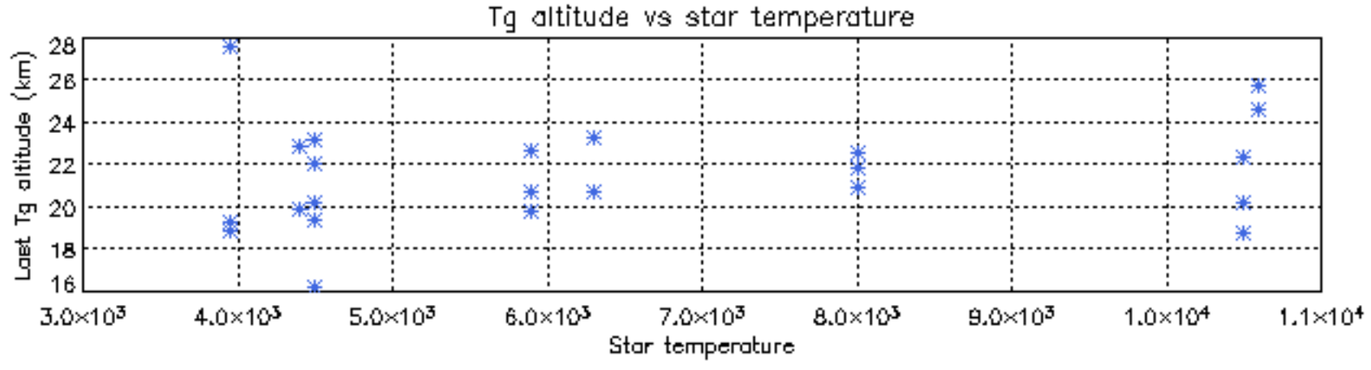


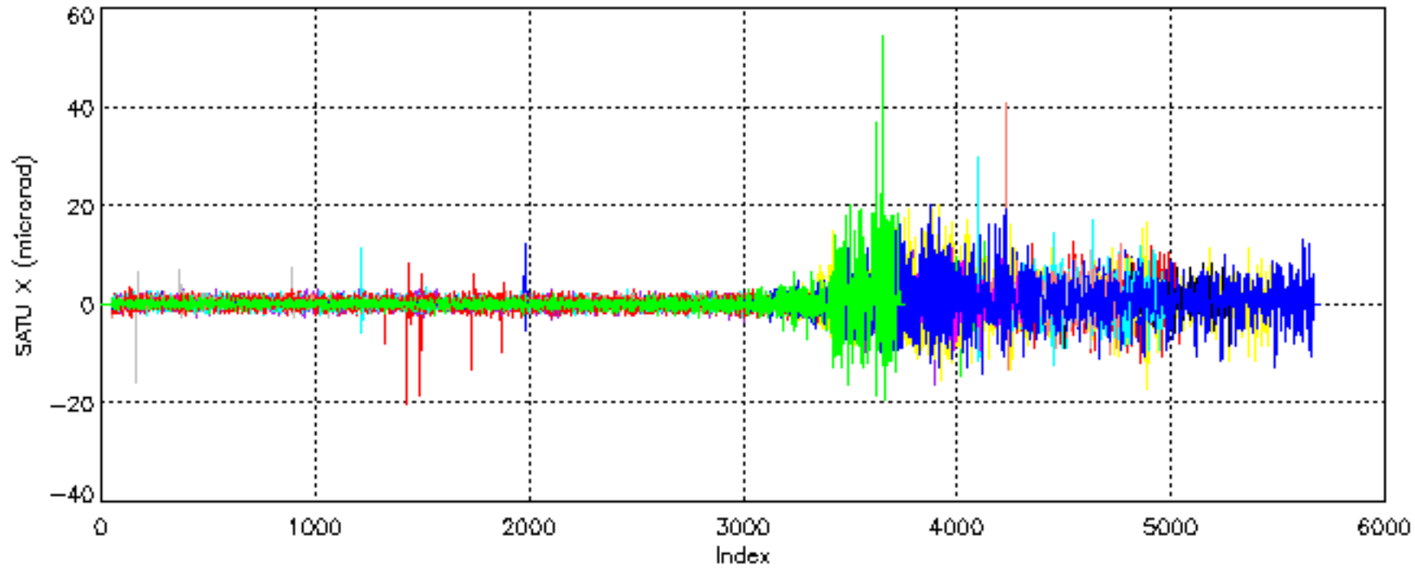


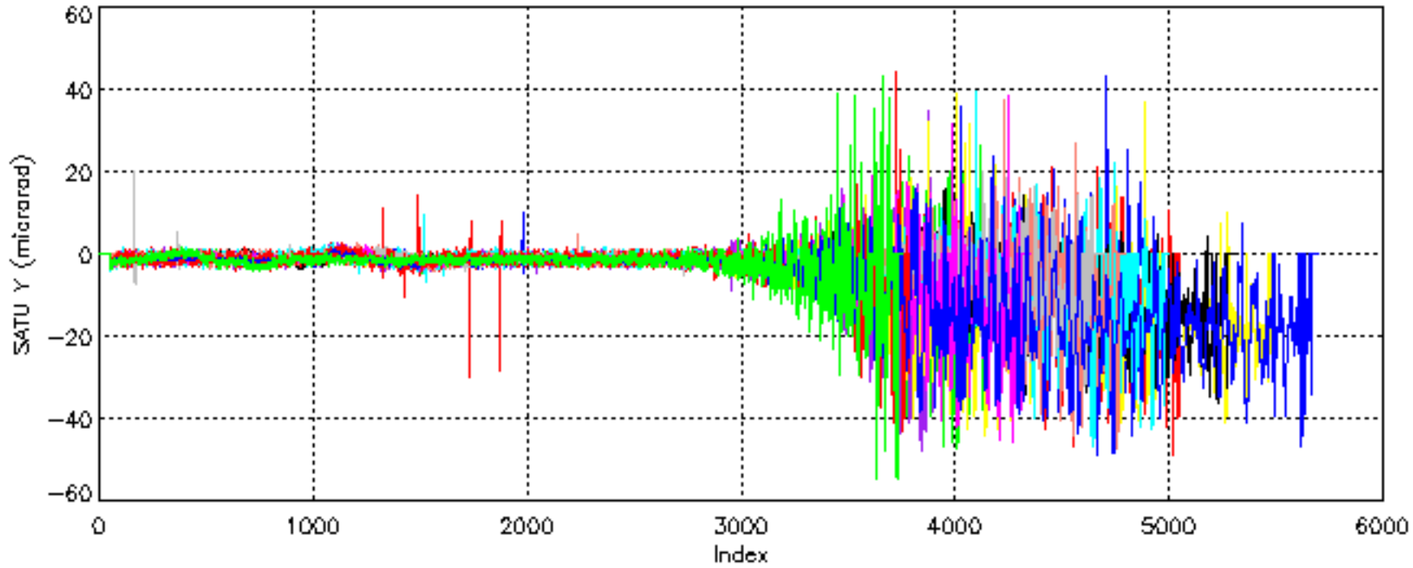
Tangent altitude at which the star is lost

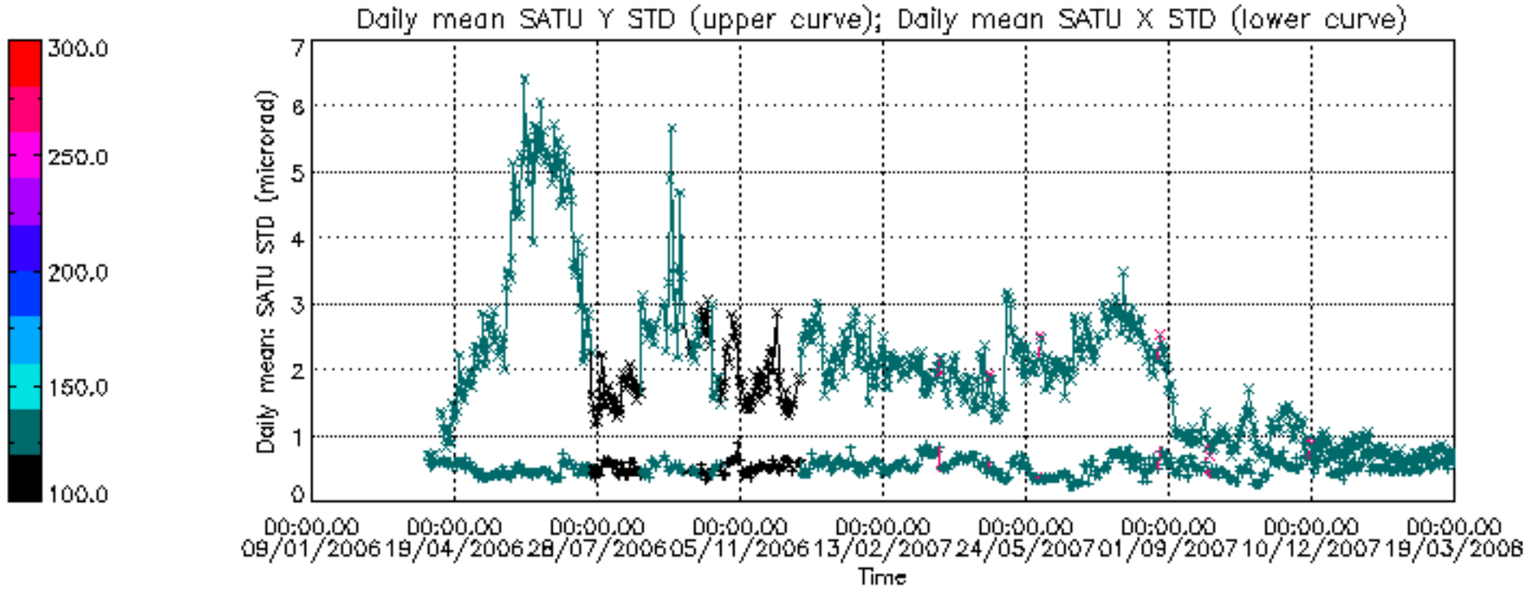







60
40
20
0
−20
−40
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
Index


60
40
20
0
−20
−40
−60
S4TU Y (microrad)
0
1000
2000
3000
4000
5000
6000
Index


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)
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
00:00.00 19/03/2008
Time

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2; -539.3; 01-MAR-2008 00:05:36; Dark ; 44.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 89; 0;31375
3; -352.6; 01-MAR-2008 00:08:43; Dark ; 46.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 92; 0;31375
4; -122.9; 01-MAR-2008 00:12:33; Dark ; 52.5; 40; The Sco ; 1.86; 7100;occ; 105; 0;31375
5; 41.9; 01-MAR-2008 00:15:17; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;31376
6; 153.2; 01-MAR-2008 00:17:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31376
7; 280.6; 01-MAR-2008 00:19:16; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;31376
8; 357.3; 01-MAR-2008 00:20:33; Dark ; 36.5; 145; Gam TrA ; 2.87; 10600;occ; 73; 0;31376
9; 435.8; 01-MAR-2008 00:21:51; Dark ; 48.0; 4; Alp1Cen ;-0.01; 5800;occ; 96; 0;31376
10; 514.9; 01-MAR-2008 00:23:10; Dark ; 52.0; 10; Bet Cen ; 0.61; 28000;occ; 104; 0;31376
11; 669.1; 01-MAR-2008 00:25:45; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;31376
12; 777.5; 01-MAR-2008 00:27:33; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;31376
13; 858.2; 01-MAR-2008 00:28:54; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;31376
14; 1000.4; 01-MAR-2008 00:31:16; Dark ; 41.0; 113; Mu Vel ; 2.69; 5000;occ; 82; 0;31376
15; 1184.4; 01-MAR-2008 00:34:20; Dark ; 38.0; 65; Lam Vel ; 2.20; 4400;occ; 76; 0;31376
16; 1754.1; 01-MAR-2008 00:43:50; Dark ; 40.5; 48; 30Alp Hya ; 1.98; 4100;occ; 81; 0;31376
17; 2323.6; 01-MAR-2008 00:53:19; Bright; 38.5; 166; 17Eps Leo ; 2.98; 6000;occ; 77; 0;31376
18; 3433.8; 01-MAR-2008 01:11:49; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;31376
19; 3884.1; 01-MAR-2008 01:19:20; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;31376
20; 4189.8; 01-MAR-2008 01:24:25; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;31376
21; 4283.6; 01-MAR-2008 01:25:59; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;31376
22; 4376.4; 01-MAR-2008 01:27:32; Bright; 34.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 69; 0;31376
23; 4799.4; 01-MAR-2008 01:34:35; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76; 0;31376
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3; -122.0; 01-MAR-2008 01:53:09; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;31376
4; 42.6; 01-MAR-2008 01:55:54; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;31377
5; 153.5; 01-MAR-2008 01:57:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31377
6; 281.1; 01-MAR-2008 01:59:52; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;31377
7; 357.9; 01-MAR-2008 02:01:09; Dark ; 37.0; 145; Gam TrA ; 2.87; 10600;occ; 74; 0;31377
8; 436.6; 01-MAR-2008 02:02:28; Dark ; 44.5; 4; Alp1Cen ;-0.01; 5800;occ; 89; 0;31377
9; 515.6; 01-MAR-2008 02:03:47; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;31377
10; 669.6; 01-MAR-2008 02:06:21; Dark ; 38.5; 12; Alp1Cru ; 0.77; 30000;occ; 77; 0;31377
11; 778.0; 01-MAR-2008 02:08:09; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;31377
12; 858.9; 01-MAR-2008 02:09:30; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;31377
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15; 1754.3; 01-MAR-2008 02:24:26; Dark ; 44.0; 48; 30Alp Hya ; 1.98; 4100;occ; 88; 0;31377
16; 2323.8; 01-MAR-2008 02:33:55; Bright; 38.5; 166; 17Eps Leo ; 2.98; 6000;occ; 77; 0;31377
17; 3433.8; 01-MAR-2008 02:52:25; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;31377
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5;-1236.2; 01-MAR-2008 03:15:11; Bright; 39.0; 168; 17Zet Aql ; 2.99; 11000;occ; 78; 0;31377
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  12; 4306.6; 17-MAR-2008 18:09:30; Bright; 39.5;   66; 37Gam Cyg ; 2.21; 5900;occ; 79;   0;31615
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9; 2871.5; 27-MAR-2008 19:11:48; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;31759
10; 2963.2; 27-MAR-2008 19:13:20; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;31759
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13; 4207.0; 27-MAR-2008 19:34:04; Bright; 42.5; 144; 18Del Cyg ; 2.86; 11000;occ; 85; 0;31759
14; 4312.7; 27-MAR-2008 19:35:49; Bright; 40.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 81; 0;31759
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16; 4999.8; 27-MAR-2008 19:47:16; Dark ; 72.0; 11; 53Alp Aql ; 0.76; 8000;occ; 144; 0;31759
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   6; 2958.8; 31-MAR-2008 03:42:00; Bright;  37.0;   36; 50Alp UMa  ; 1.80;  6300;occ;  74;   0;31807
   7; 3440.2; 31-MAR-2008 03:50:01; Bright;  36.5;   49;  1Alp UMi  ; 1.99;  6300;occ;  73;   0;31807
   8; 3902.9; 31-MAR-2008 03:57:44; Bright;  37.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  75;   0;31807
   9; 4825.4; 31-MAR-2008 04:13:06; Dark  ;  53.0;   61;  8Eps Peg  ; 2.10;  3900;occ; 106;   0;31807
  10; 5100.1; 31-MAR-2008 04:17:41; Dark  ;  42.0;  154; 22Bet Aqr  ; 2.90;  5700;occ;  84;   0;31807
  11; 5255.0; 31-MAR-2008 04:20:16; Dark  ;  39.0;  142; 49Del Cap  ; 2.85;  8900;occ;  78;   0;31807
  12; 5592.2; 31-MAR-2008 04:25:53; Dark  ;  37.5;  172;   Gam Gru  ; 3.00; 13100;occ;  75;   0;31807
  13; 5862.3; 31-MAR-2008 04:30:23; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;31807
  14; 5988.6; 31-MAR-2008 04:32:29; Dark  ;  41.5;   45;   Alp Pav  ; 1.94; 26000;occ;  83;   0;31807
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15; 6439.0; 31-MAR-2008 04:40:00; Dark  ;  43.5;   43;   Alp TrA  ; 1.91;  4250;occ;  87;   0;31807
16; 6549.1; 31-MAR-2008 04:41:50; Dark  ;  39.5;  134;   Bet TrA  ; 2.81;  6600;occ;  79;   0;31807
17; 6707.8; 31-MAR-2008 04:44:29; Dark  ;  45.0;    4;   Alp1Cen  ;-0.01;  5800;occ;  90;   0;31807
18; 6846.5; 31-MAR-2008 04:46:47; Dark  ;  48.5;   12;   Alp1Cru  ; 0.77; 30000;occ;  97;   0;31807
19; 6933.1; 31-MAR-2008 04:48:14; Dark  ;  48.0;   26;   Gam Cru  ; 1.62;  2900;occ;  96;   0;31807
20; 7049.0; 31-MAR-2008 04:50:10; Dark  ;  37.5;   64;   Gam Cen  ; 2.20; 10600;occ;  75;   0;31807
21; 7202.3; 31-MAR-2008 04:52:43; Dark  ;  46.0;  123;   Iot Cen  ; 2.75; 10200;occ;  92;   0;31807
22; 7495.2; 31-MAR-2008 04:57:36; Dark  ;  46.0;  106;  9Bet Crv  ; 2.65;  5600;occ;  92;   0;31807
23; 7613.7; 31-MAR-2008 04:59:34; Dark  ;  40.5;  100;  4Gam Crv  ; 2.58; 13100;occ;  81;   0;31807
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