GOMOS Daily Report 02-OCT-2006

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	04OCT2006 05:31:48
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (02OCT2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (03OCT2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	29
Nb of prods with errors	0

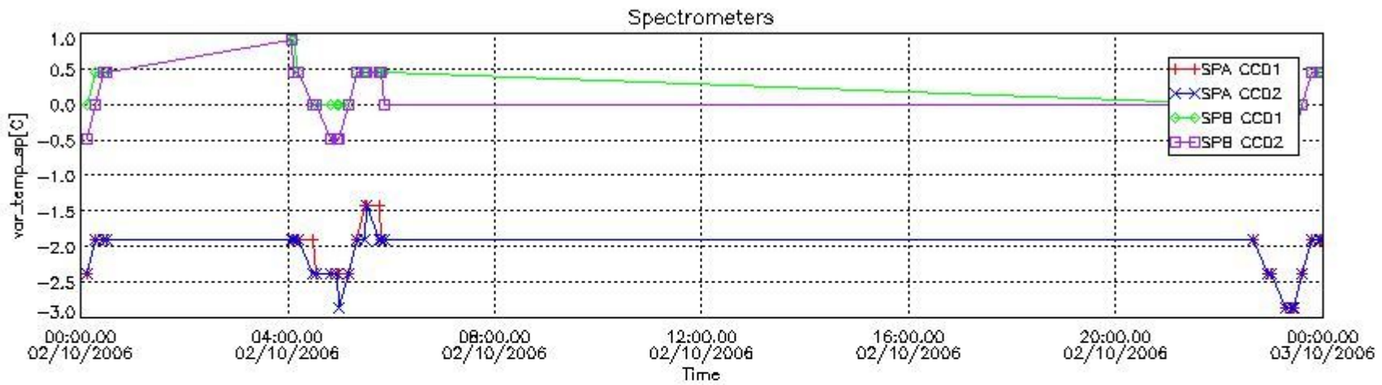
2. Summary of products arrived in PCF (Product Control Facility)

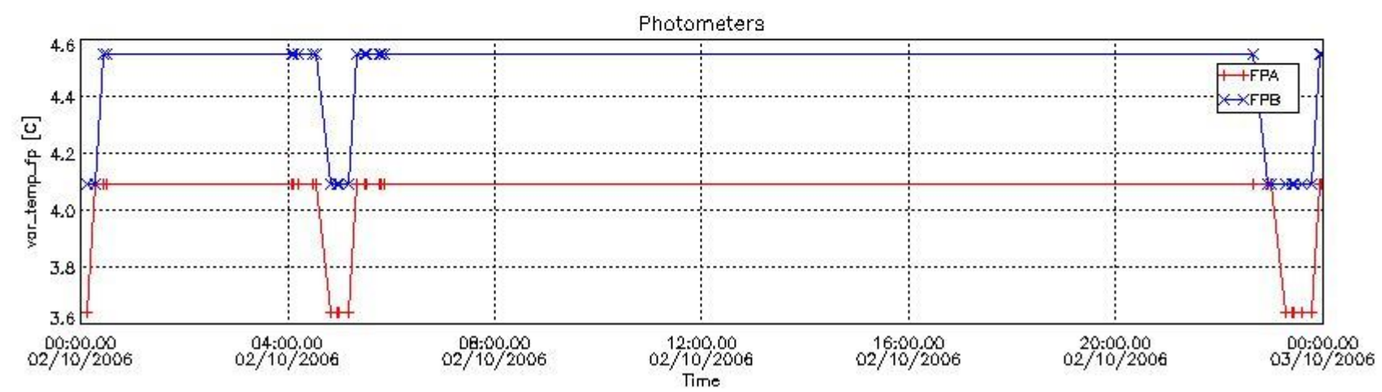
2.1 Level 0 products arrived in PCF (see template here)

2.2 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_1PNPDE20061002_000752_000000362051_00388_23989_1439.N1	02-OCT-2006 00:07:52	Bright	35.500	166	17Eps Leo	2.9800	6000.0	71	23989	No
2	GOM_TRA_1PNPDE20061002_001728_000000472051_00388_23989_1440.N1	02-OCT-2006 00:17:28	Twilight	47.000	48	30Alp Hya	1.9770	4100.0	94	23989	No
3	GOM_TRA_1PNPDE20061002_002709_000000462051_00388_23989_1441.N1	02-OCT-2006 00:27:09	Dark	46.000	65	Lam Vel	2.2040	4400.0	92	23989	No
4	GOM_TRA_1PNPDE20061002_002946_000000412051_00388_23989_1442.N1	02-OCT-2006 00:29:46	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	23989	No
5	GOM_TRA_1PNPDE20061002_040527_000000372051_00391_23992_1434.N1	02-OCT-2006 04:05:27	Dark	36.500	143	Alp Hyi	2.8570	7200.0	73	23992	No
6	GOM_TRA_1PNPDE20061002_040655_000000462051_00391_23992_1441.N1	02-OCT-2006 04:06:55	Dark	45.500	9	Alp Eri	0.45300	24000.	91	23992	No
7	GOM_TRA_1PNPDE20061002_041215_000000422051_00391_23992_1442.N1	02-OCT-2006 04:12:15	Straylight	42.000	84	Alp Phe	2.3970	4500.0	84	23992	No
8	GOM_TRA_1PNPDE20061002_042919_000000362051_00391_23992_1435.N1	02-OCT-2006 04:29:19	Bright	35.500	90	54Alp Peg	2.4870	11000.	71	23992	No
9	GOM_TRA_1PNPDE20061002_043256_000000362051_00391_23992_1436.N1	02-OCT-2006 04:32:56	Bright	36.000	93	53Bet Peg	2.5200	3100.0	72	23992	No
10	GOM_TRA_1PNPDE20061002_045018_000000372051_00391_23992_1437.N1	02-OCT-2006 04:50:18	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	23992	No
11	GOM_TRA_1PNPDE20061002_045817_000000362051_00391_23992_1438.N1	02-OCT-2006 04:58:17	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	23992	No
12	GOM_TRA_1PNPDE20061002_045947_000000412051_00391_23992_1439.N1	02-OCT-2006 04:59:47	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	23992	No
13	GOM_TRA_1PNPDE20061002_050941_000000352051_00391_23992_1440.N1	02-OCT-2006 05:09:41	Bright	34.500	166	17Eps Leo	2.9800	6000.0	69	23992	No
14	GOM_TRA_1PNPDE20061002_051917_000000452051_00391_23992_1441.N1	02-OCT-2006 05:19:17	Twilight	44.500	48	30Alp Hya	1.9770	4100.0	89	23992	No
15	GOM_TRA_1PNPDE20061002_052858_000000472051_00391_23992_1442.N1	02-OCT-2006 05:28:58	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	23992	No
16	GOM_TRA_1PNPDE20061002_053135_000000392051_00391_23992_1443.N1	02-OCT-2006 05:31:35	Dark	39.000	34	Gam2Vel	1.7930	23000.	78	23992	No
17	GOM_TRA_1PNPDE20061002_054604_000000382051_00392_23993_1444.N1	02-OCT-2006 05:46:04	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	23993	No
18	GOM_TRA_1PNPDE20061002_054731_000000512051_00392_23993_1445.N1	02-OCT-2006 05:47:31	Dark	51.000	9	Alp Eri	0.45300	24000.	102	23993	No
19	GOM_TRA_1PNPDE20061002_055252_000000432051_00392_23993_1446.N1	02-OCT-2006 05:52:52	Straylight	43.000	84	Alp Phe	2.3970	4500.0	86	23993	No
20	GOM_TRA_1PNPDE20061002_223854_000000442051_00402_24003_1436.N1	02-OCT-2006 22:38:54	Straylight	44.000	84	Alp Phe	2.3970	4500.0	88	24003	No
21	GOM_TRA_1PNPDE20061002_225555_000000362051_00402_24003_1437.N1	02-OCT-2006 22:55:55	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	24003	No
22	GOM_TRA_1PNPDE20061002_225932_000000352051_00402_24003_1438.N1	02-OCT-2006 22:59:32	Bright	35.000	93	53Bet Peg	2.5200	3100.0	70	24003	No
23	GOM_TRA_1PNPDE20061002_231654_000000352051_00402_24003_1439.N1	02-OCT-2006 23:16:54	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	24003	No
24	GOM_TRA_1PNPDE20061002_232454_000000372051_00402_24003_1440.N1	02-OCT-2006 23:24:54	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	24003	No
25	GOM_TRA_1PNPDE20061002_232624_000000352051_00402_24003_1441.N1	02-OCT-2006 23:26:24	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	24003	No
26	GOM_TRA_1PNPDE20061002_233618_000000362051_00402_24003_1442.N1	02-OCT-2006 23:36:18	Bright	36.000	166	17Eps Leo	2.9800	6000.0	72	24003	No
27	GOM_TRA_1PNPDE20061002_234557_000000502051_00402_24003_1443.N1	02-OCT-2006 23:45:57	Twilight	49.500	48	30Alp Hya	1.9770	4100.0	99	24003	No
28	GOM_TRA_1PNPDE20061002_235537_000000502051_00402_24003_1444.N1	02-OCT-2006 23:55:37	Dark	50.000	65	Lam Vel	2.2040	4400.0	100	24003	No
29	GOM_TRA_1PNPDE20061002_235817_000000432051_00402_24003_1445.N1	02-OCT-2006 23:58:17	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	24003	No

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





4. Overview of dark signal processing per product

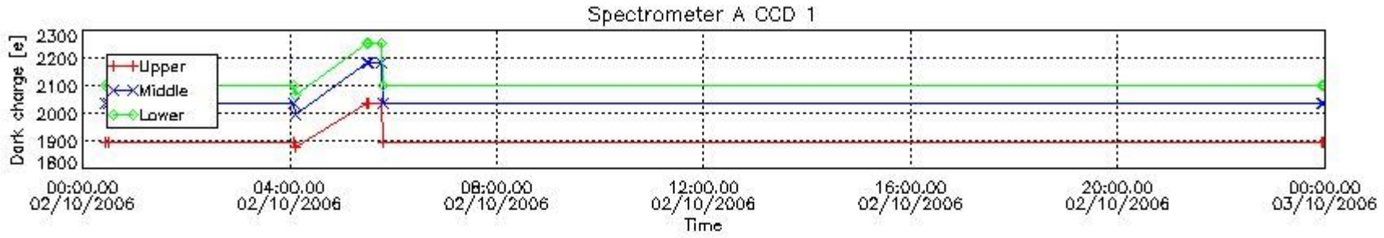
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

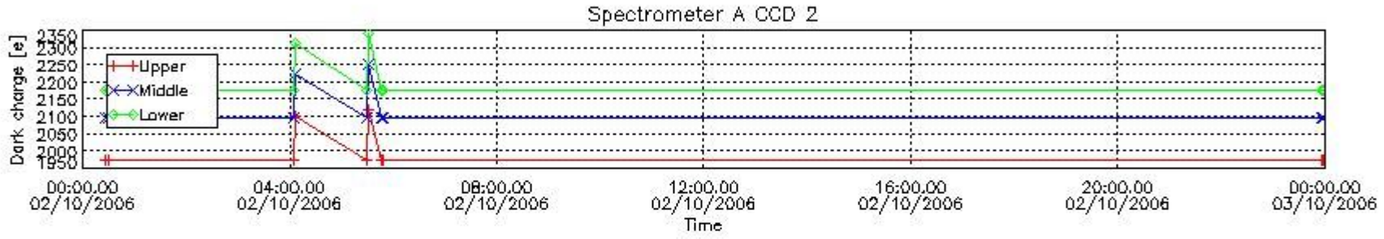
4.1 These products did not use the DSA observation for DC computation:

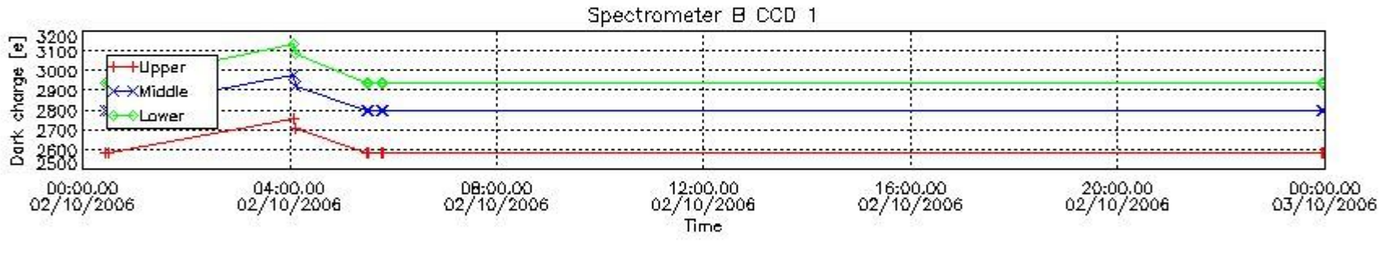
Product name	DC information
GOM_TRA_1PNPDE20061002_000752_000000362051_00388_23989_1439.N1	DC map used
GOM_TRA_1PNPDE20061002_001728_000000472051_00388_23989_1440.N1	DC map used
GOM_TRA_1PNPDE20061002_002709_000000462051_00388_23989_1441.N1	DC map used
GOM_TRA_1PNPDE20061002_002946_000000412051_00388_23989_1442.N1	DC map used
GOM_TRA_1PNPDE20061002_040527_000000372051_00391_23992_1434.N1	DC map used
GOM_TRA_1PNPDE20061002_040655_000000462051_00391_23992_1441.N1	DC map used
GOM_TRA_1PNPDE20061002_041215_000000422051_00391_23992_1442.N1	DC map used
GOM_TRA_1PNPDE20061002_042919_000000362051_00391_23992_1435.N1	DC map used
GOM_TRA_1PNPDE20061002_043256_000000362051_00391_23992_1436.N1	DC map used
GOM_TRA_1PNPDE20061002_045018_000000372051_00391_23992_1437.N1	DC map used
GOM_TRA_1PNPDE20061002_045817_000000362051_00391_23992_1438.N1	DC map used
GOM_TRA_1PNPDE20061002_045947_000000412051_00391_23992_1439.N1	DC map used
GOM_TRA_1PNPDE20061002_050941_000000352051_00391_23992_1440.N1	DC map used
GOM_TRA_1PNPDE20061002_051917_000000452051_00391_23992_1441.N1	DC map used

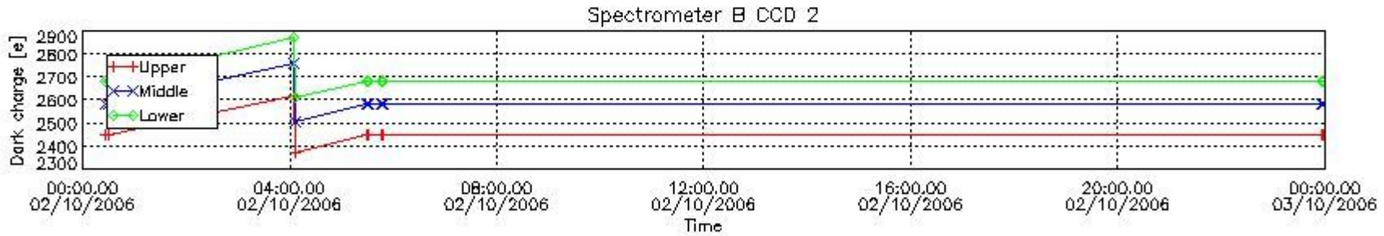
GOM_TRA_1PNPDE20061002_052858_000000472051_00391_23992_1442.N1	DC map used
GOM_TRA_1PNPDE20061002_053135_000000392051_00391_23992_1443.N1	DC map used
GOM_TRA_1PNPDE20061002_054604_000000382051_00392_23993_1444.N1	DC map used
GOM_TRA_1PNPDE20061002_054731_000000512051_00392_23993_1445.N1	DC map used
GOM_TRA_1PNPDE20061002_055252_000000432051_00392_23993_1446.N1	DC map used
GOM_TRA_1PNPDE20061002_223854_000000442051_00402_24003_1436.N1	DC map used
GOM_TRA_1PNPDE20061002_225555_000000362051_00402_24003_1437.N1	DC map used
GOM_TRA_1PNPDE20061002_225932_000000352051_00402_24003_1438.N1	DC map used
GOM_TRA_1PNPDE20061002_231654_000000352051_00402_24003_1439.N1	DC map used
GOM_TRA_1PNPDE20061002_232454_000000372051_00402_24003_1440.N1	DC map used
GOM_TRA_1PNPDE20061002_232624_000000352051_00402_24003_1441.N1	DC map used
GOM_TRA_1PNPDE20061002_233618_000000362051_00402_24003_1442.N1	DC map used
GOM_TRA_1PNPDE20061002_234557_000000502051_00402_24003_1443.N1	DC map used
GOM_TRA_1PNPDE20061002_235537_000000502051_00402_24003_1444.N1	DC map used
GOM_TRA_1PNPDE20061002_235817_000000432051_00402_24003_1445.N1	DC map used

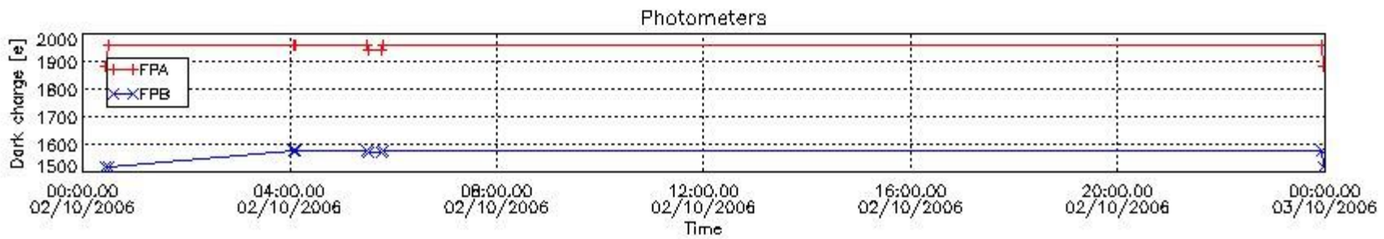
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











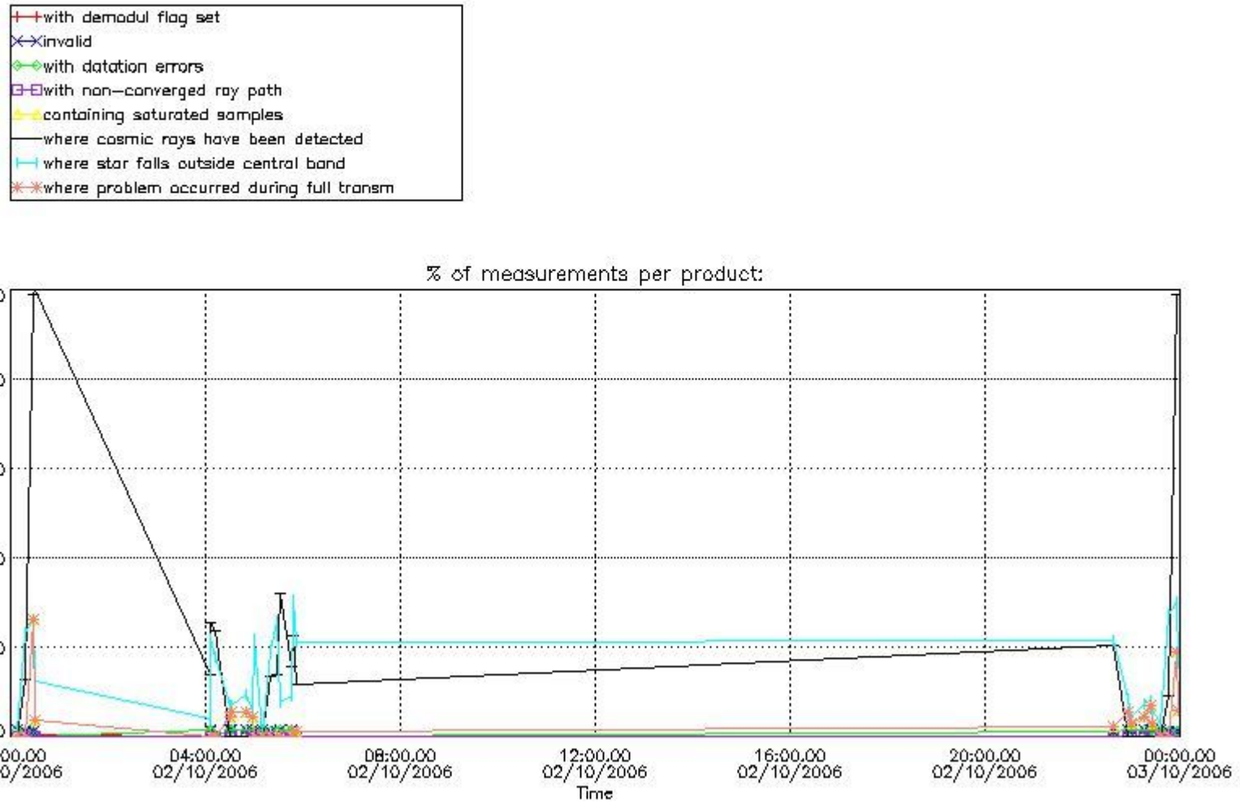
5. Demodulation flag and quality information monitoring

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:

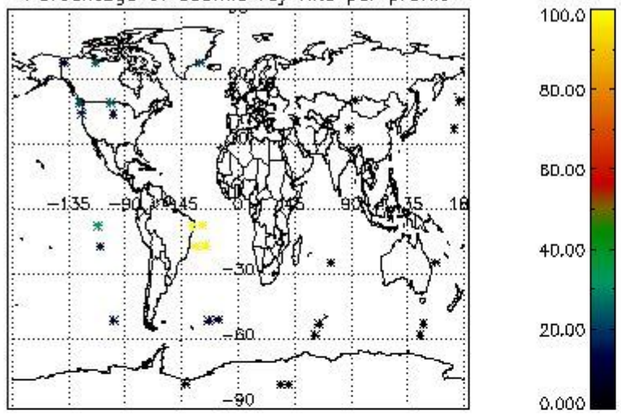
At least one measurement with demodulation flag set:	17.2414 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

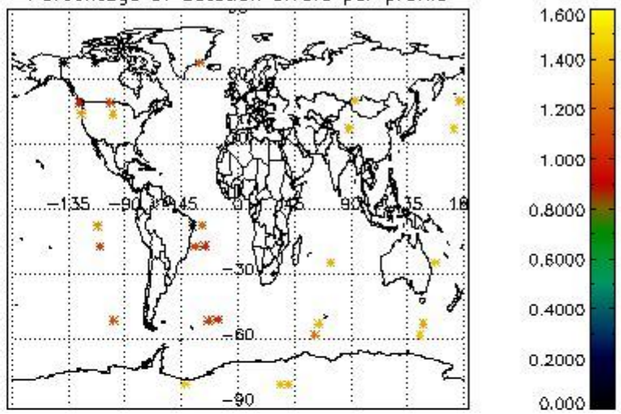


5.3 Plot quality information per product (world map)

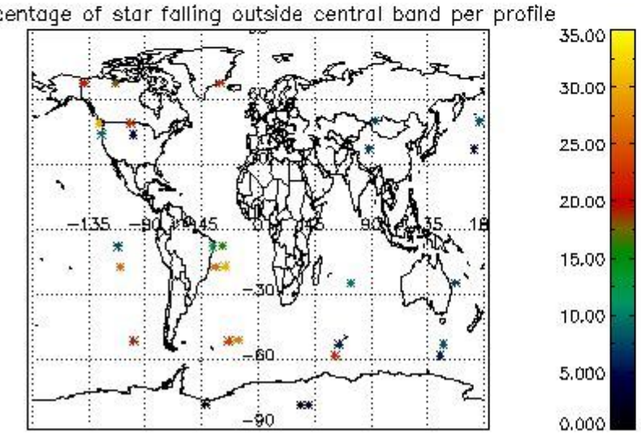
Percentage of cosmic ray hits per profile



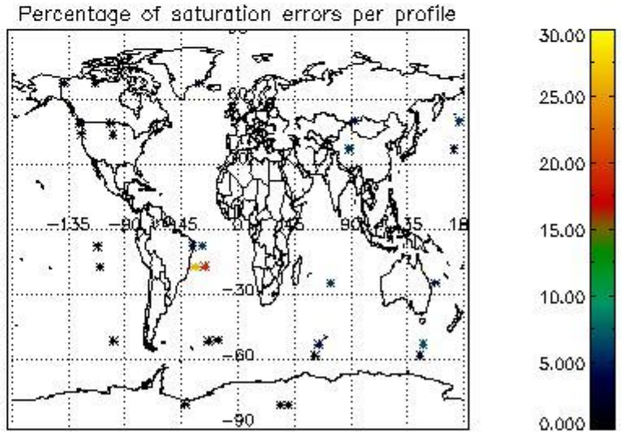
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



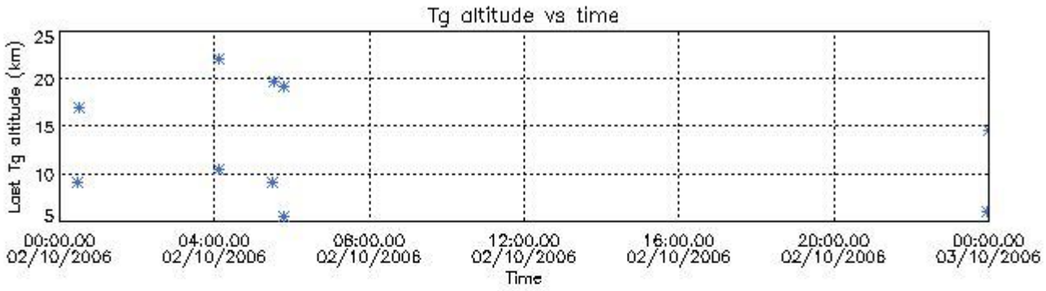
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

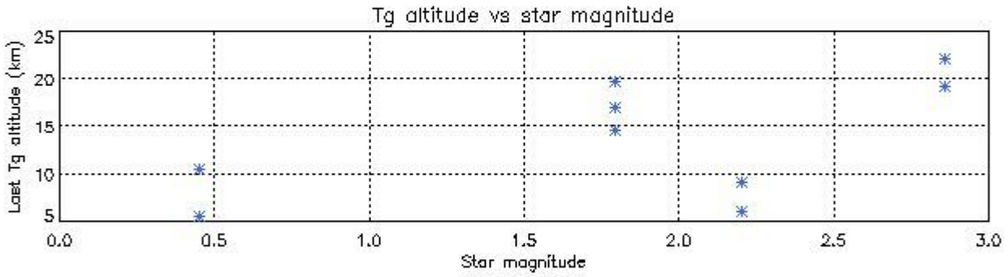
6.1 Statistics on tangent altitude lost:

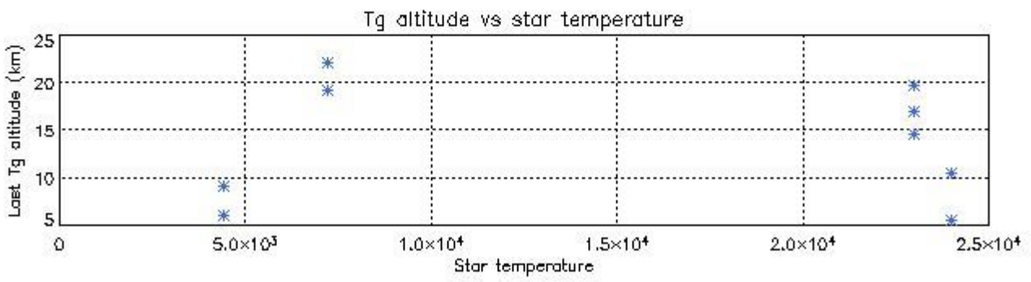
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.297	20.905	9.9463
St. deviation:	6.0313	3.0474	2.1642
Maximum:	22.177	25.946	12.165
Minimum:	5.4417	13.459	7.8412
Number of data:	10.000	13.000	3.0000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

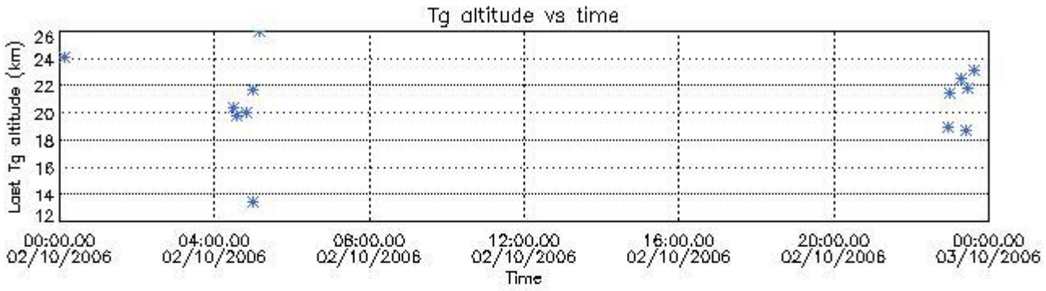


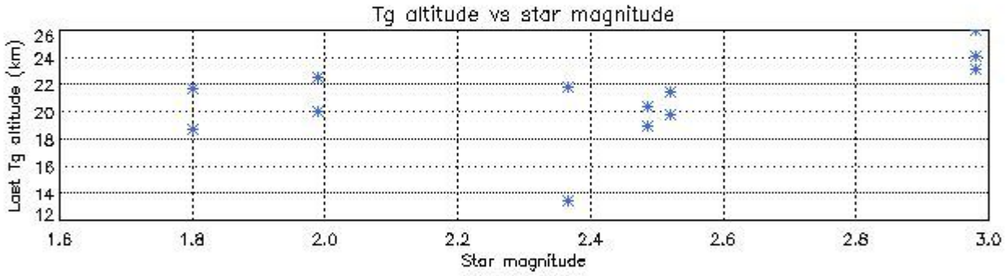


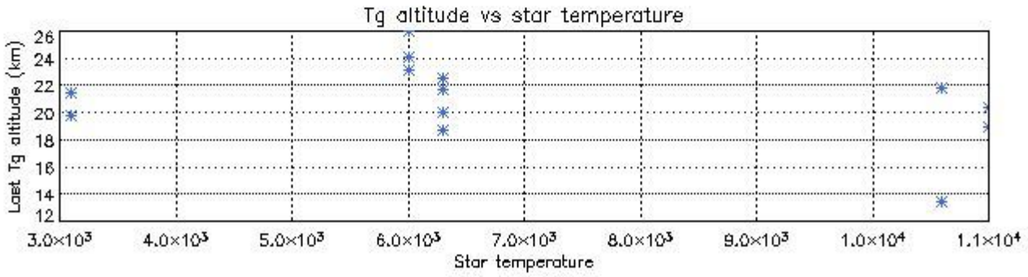


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

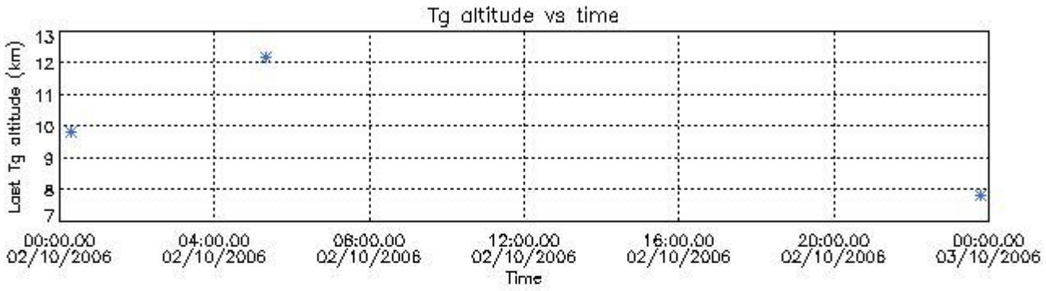


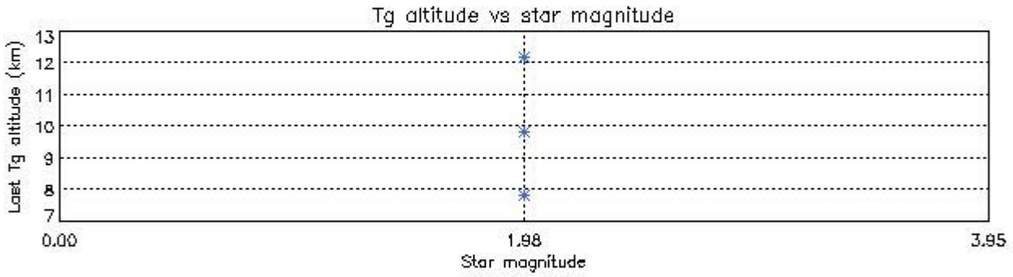


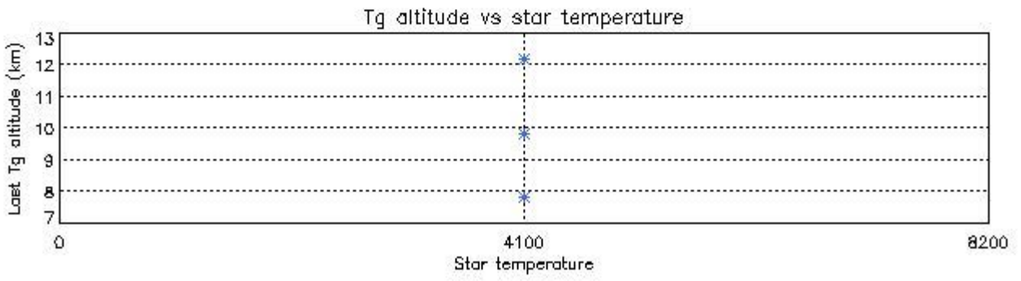


6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost





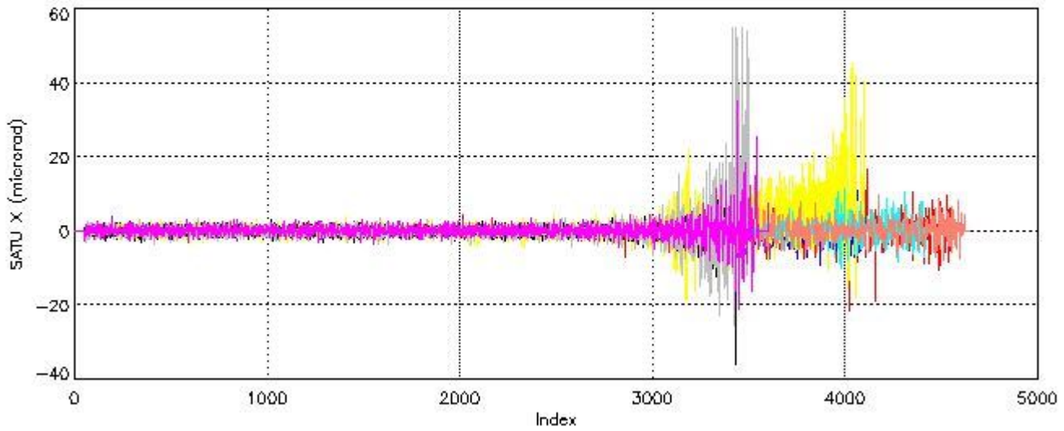


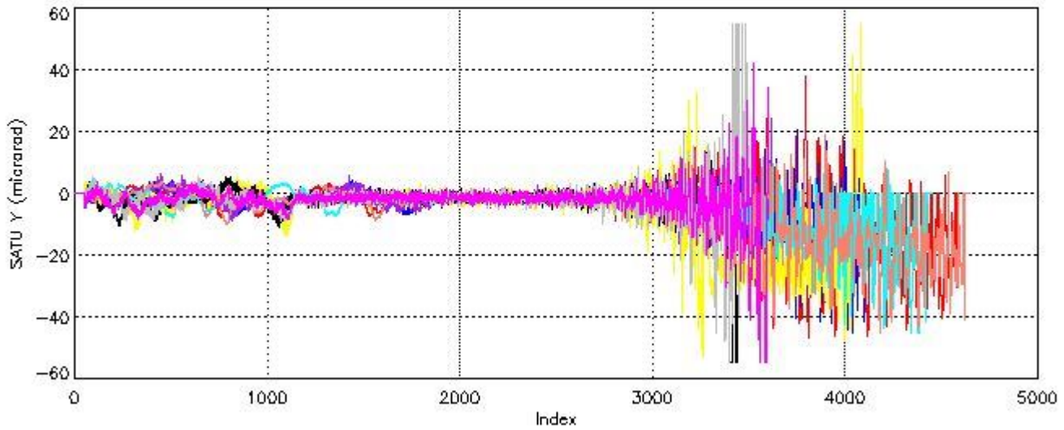
7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main functin of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frecuency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.





7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.
Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

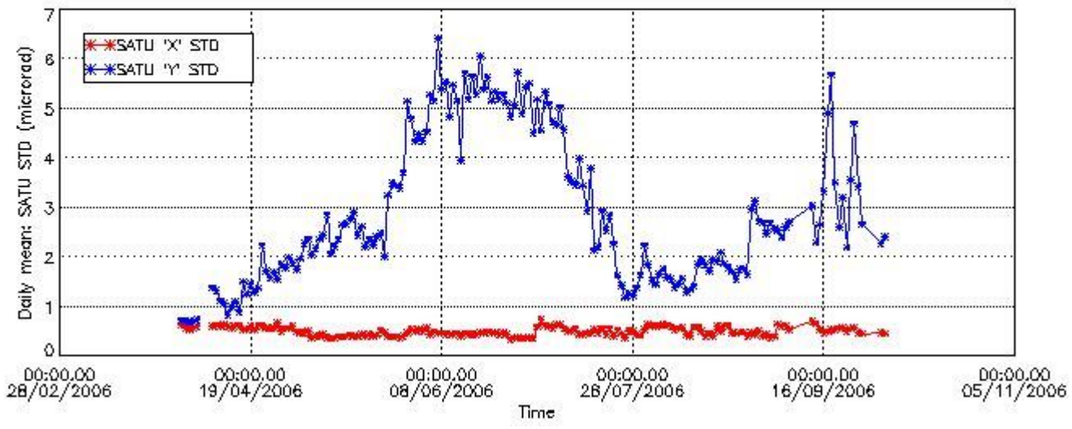
7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.067914	-0.82015	0.016434	-1.2728
St. deviation:	0.44110	2.3930	0.70487	2.5598
Maximum:	3.7000	6.1000	3.9000	6.3000
Minimum:	-1.5000	-5.0000	-2.9000	-8.4000

Number of data:	9000.0	9000.0	10650.	10650.

7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

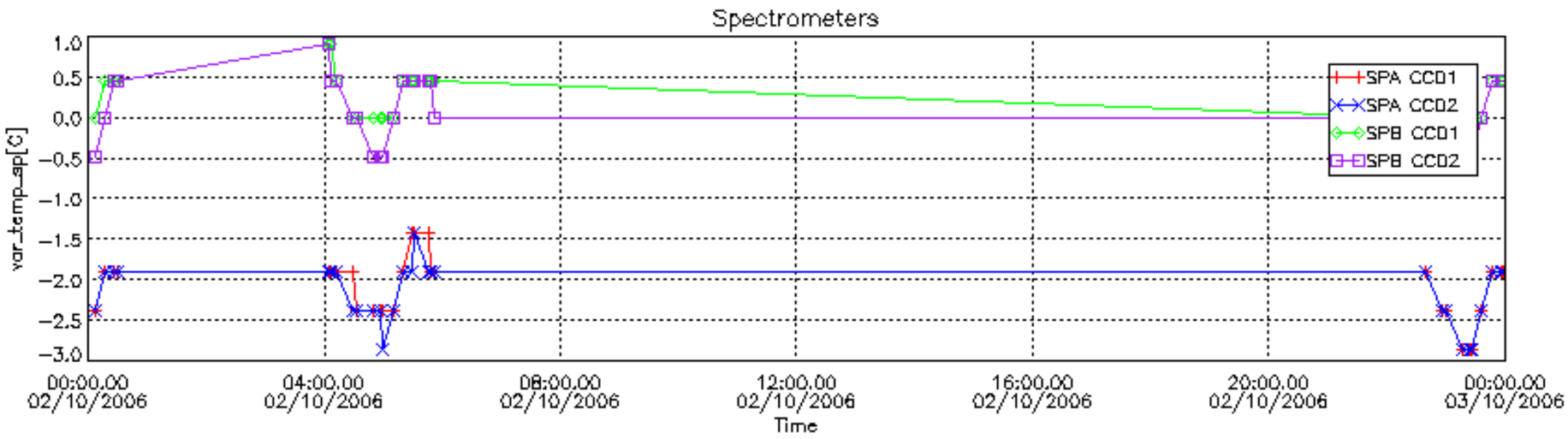
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.



8. Auxiliary Data Files used for the production reported in section 2.2

The number reported in the third column indicates since which file (see list in section 2.2) 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	02-OCT-2006 00:07:52
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060927_124349_20060925_000000_20100101_000000	1	02-OCT-2006 00:07:52
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20061002_131438_20060930_000000_20100101_000000	6	02-OCT-2006 04:06:55
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	02-OCT-2006 00:07:52
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-OCT-2006 00:07:52
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	02-OCT-2006 00:07:52
ECMWF_FILE	AUX_ECF_AXNECM20061001_062537_20061001_210000_20061002_090000	1	02-OCT-2006 00:07:52
ECMWF_FILE	AUX_ECF_AXNECM20061001_181538_20061002_030000_20061002_150000	5	02-OCT-2006 04:05:27
ECMWF_FILE	AUX_ECF_AXNECM20061002_062546_20061002_210000_20061003_090000	20	02-OCT-2006 22:38:54
OPTIONAL_ECMWF_FILE	MISSING	1	02-OCT-2006 00:07:52
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20061001_212850_000057382051_00387_23988_0678.N1	1	02-OCT-2006 00:07:52
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20061002_023700_000057382051_00390_23991_0682.N1	5	02-OCT-2006 04:05:27
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20061003_010036_20061002_185834_20061012_202449	20	02-OCT-2006 22:38:54


Spectrometers
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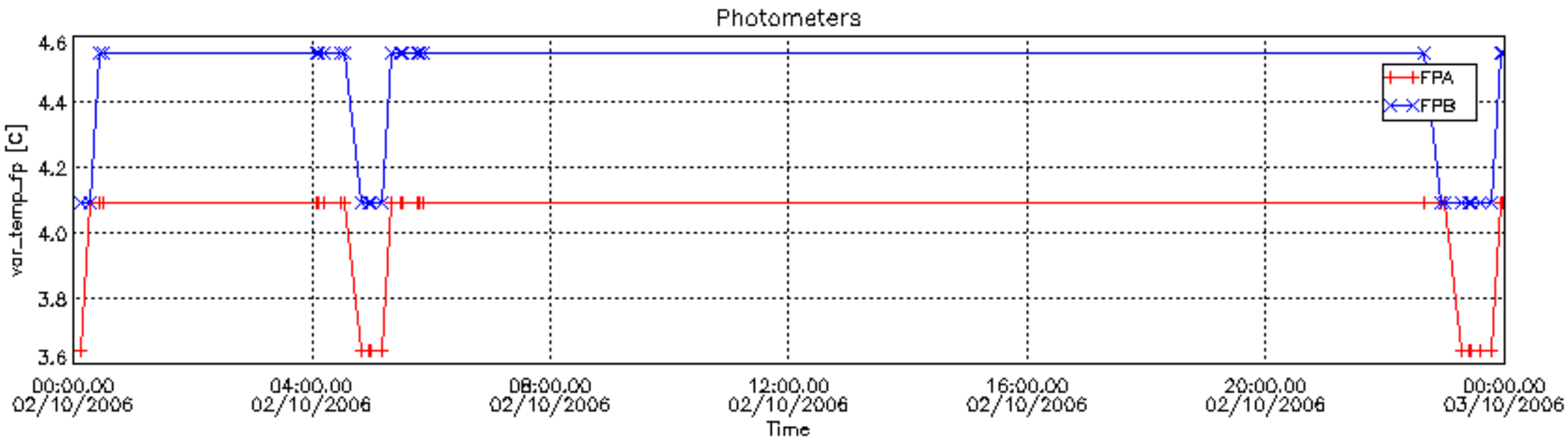
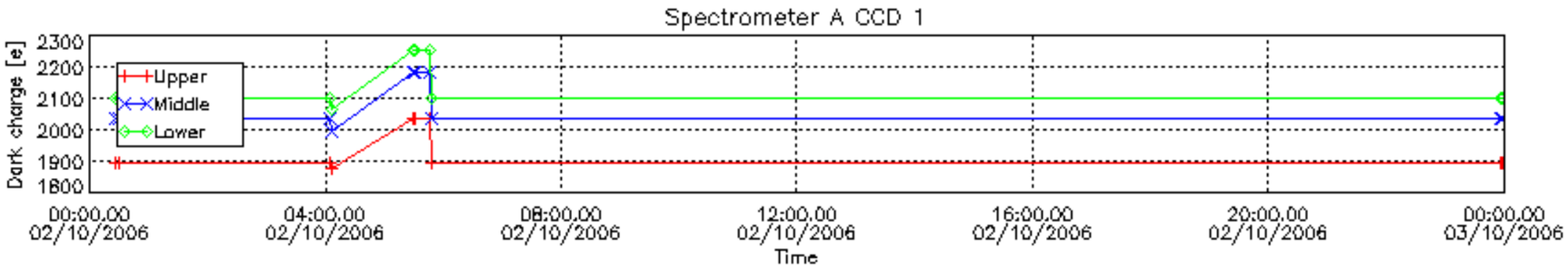
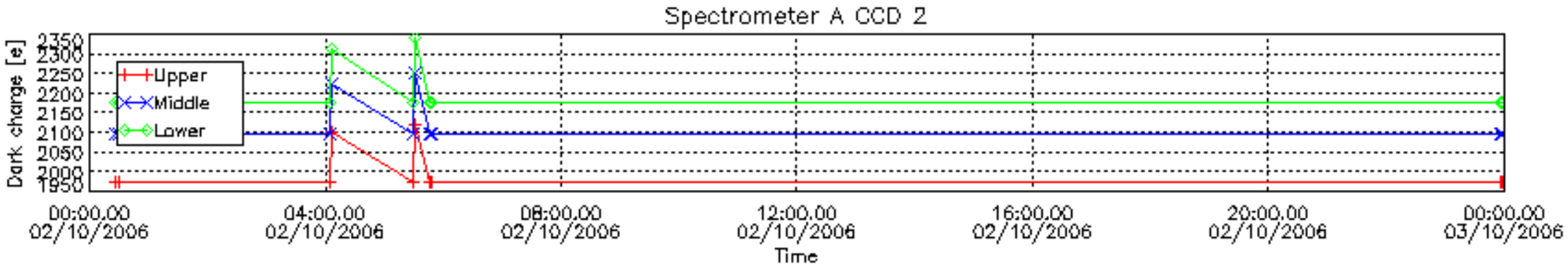
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
−3.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
02/10/2006
04:00.00
02/10/2006
08:00.00
02/10/2006
12:00.00
02/10/2006
16:00.00
02/10/2006
20:00.00
02/10/2006
00:00.00
03/10/2006
Time


Photometers
var_temp_fp [C]
4.6
4.4
4.2
4.0
3.8
3.6
FPA
FPB
00:00.00
02/10/2006
04:00.00
02/10/2006
08:00.00
02/10/2006
12:00.00
02/10/2006
16:00.00
02/10/2006
20:00.00
02/10/2006
00:00.00
03/10/2006
Time


Spectrometer A CCD 1
Dark charge [e]
2300
2200
2100
2000
1900
1800
Upper
Middle
Lower
00:00.00 02/10/2006
04:00.00 02/10/2006
08:00.00 02/10/2006
12:00.00 02/10/2006
16:00.00 02/10/2006
20:00.00 02/10/2006
00:00.00 03/10/2006
Time


Spectrometer A CCD 2
Dark charge [e]
2350
2300
2250
2200
2150
2100
2050
2000
1950
Upper
Middle
Lower
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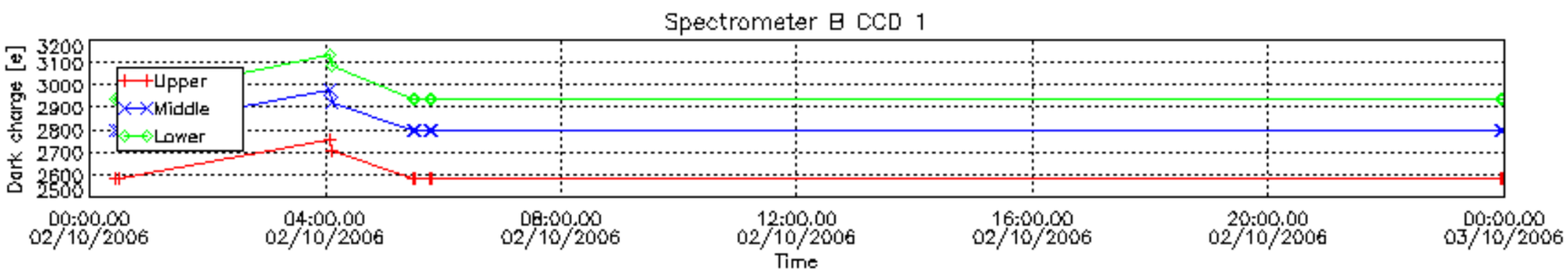
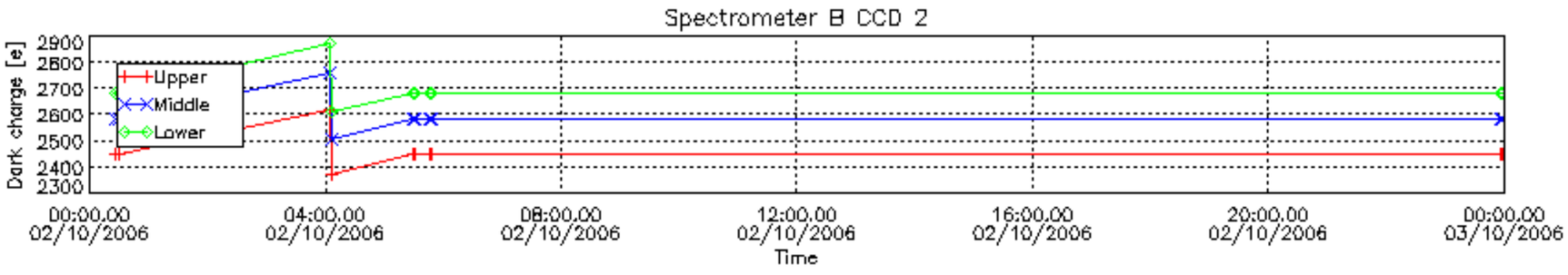
04:00.00 02/10/2006
08:00.00 02/10/2006
12:00.00 02/10/2006
16:00.00 02/10/2006
20:00.00 02/10/2006
00:00.00 03/10/2006
Time


Spectrometer B CCD 1
Dark charge [e]
3200
3100
3000
2900
2800
2700
2600
2500
Upper
Middle
Lower
00:00.00 02/10/2006
04:00.00 02/10/2006
08:00.00 02/10/2006
12:00.00 02/10/2006
16:00.00 02/10/2006
20:00.00 02/10/2006
00:00.00 03/10/2006
Time


Spectrometer B CCD 2
Dark charge [e]
2900
2800
2700
2600
2500
2400
2300
Upper
Middle
Lower
00:00.00 02/10/2006
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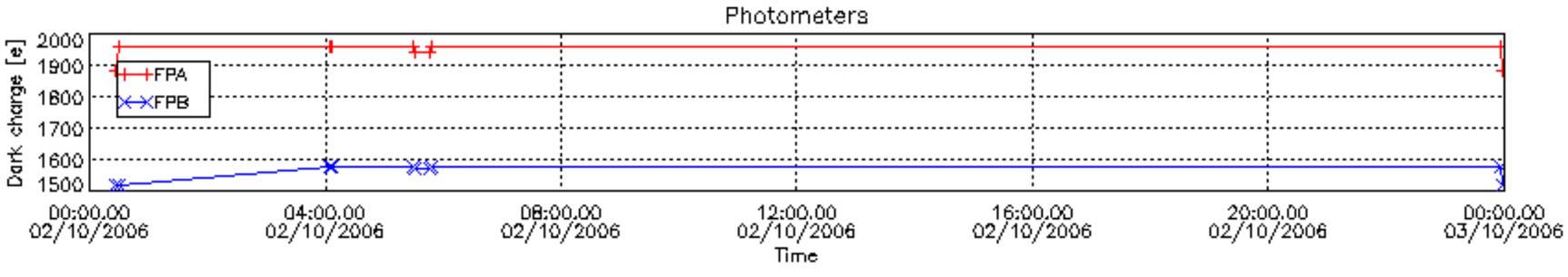
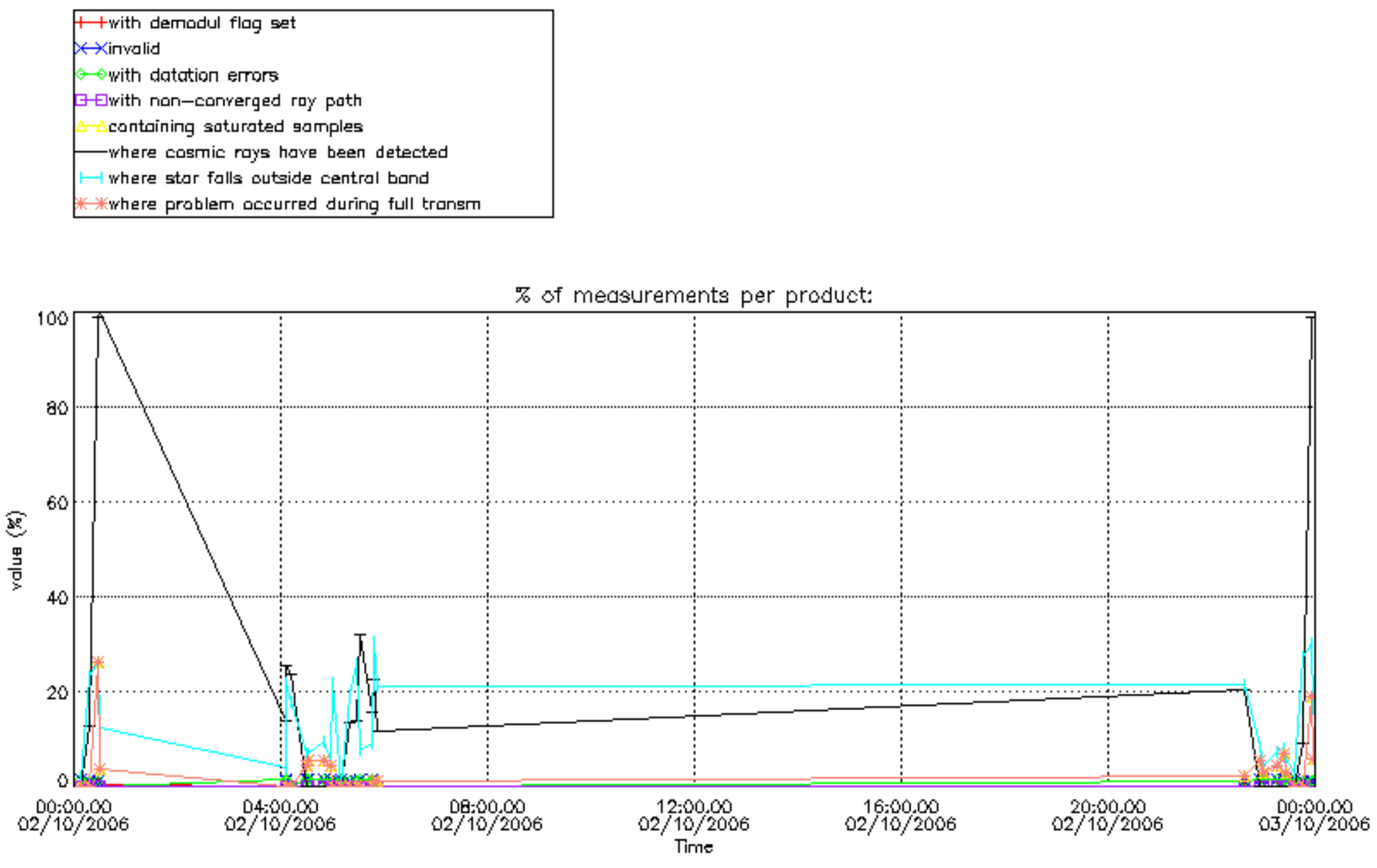
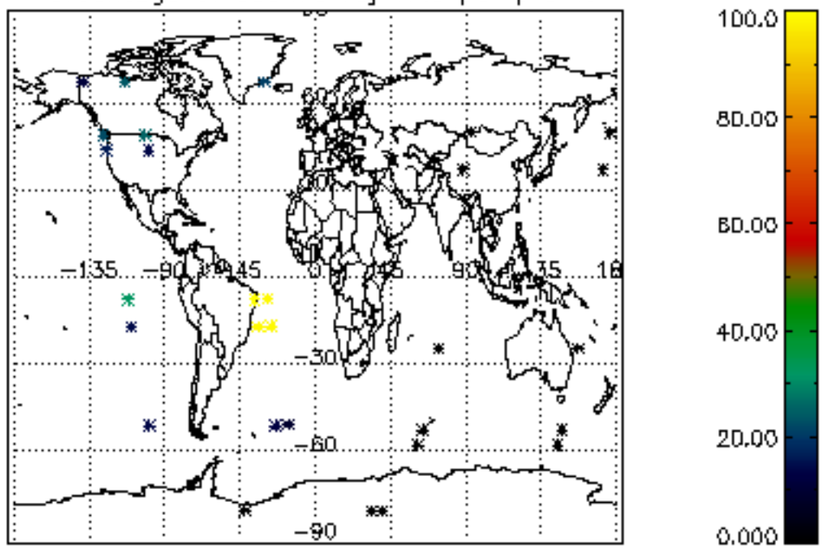
08:00.00 02/10/2006
12:00.00 02/10/2006
16:00.00 02/10/2006
20:00.00 02/10/2006
00:00.00 03/10/2006
Time

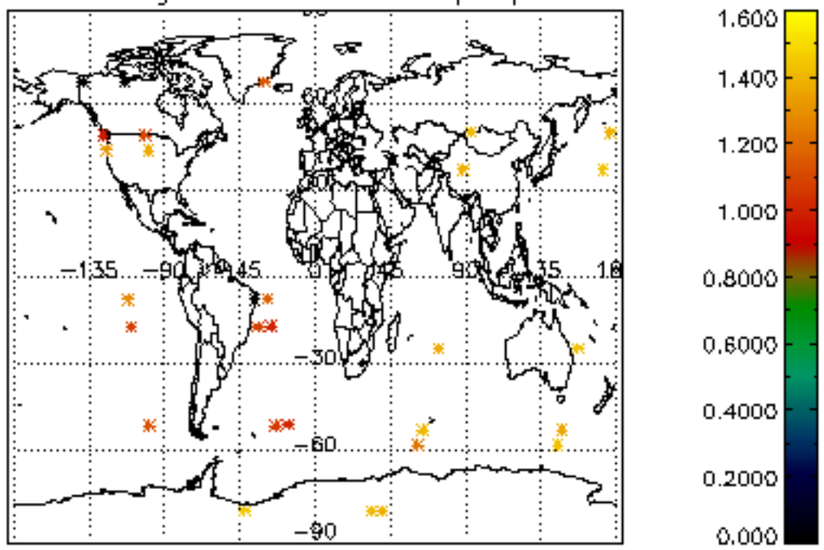

Photometers
Dark charge [e]
2000
1900
1800
1700
1600
1500
FPA
FPB
00:00.00 02/10/2006
04:00.00 02/10/2006
08:00.00 02/10/2006
12:00.00 02/10/2006
16:00.00 02/10/2006
20:00.00 02/10/2006
00:00.00 03/10/2006
Time


with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
100
80
60
40
20
0
value (%)
00:00.00 02/10/2006
04:00.00 02/10/2006
08:00.00 02/10/2006
12:00.00 02/10/2006
16:00.00 02/10/2006
20:00.00 02/10/2006
00:00.00 03/10/2006
Time

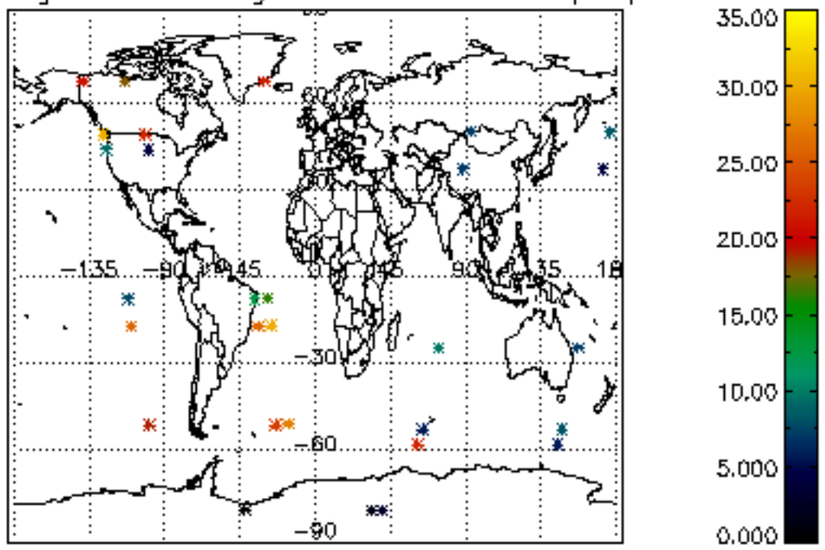
Percentage of cosmic ray hits per profile



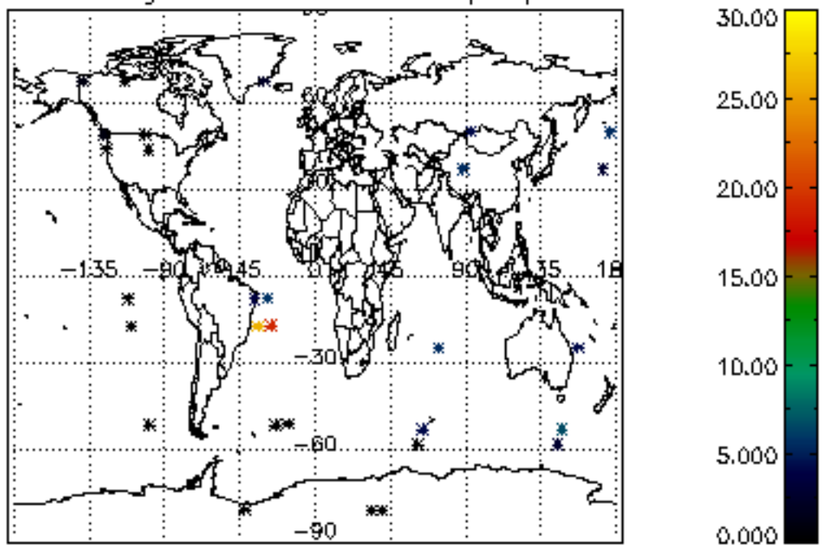
Percentage of datation errors per profile



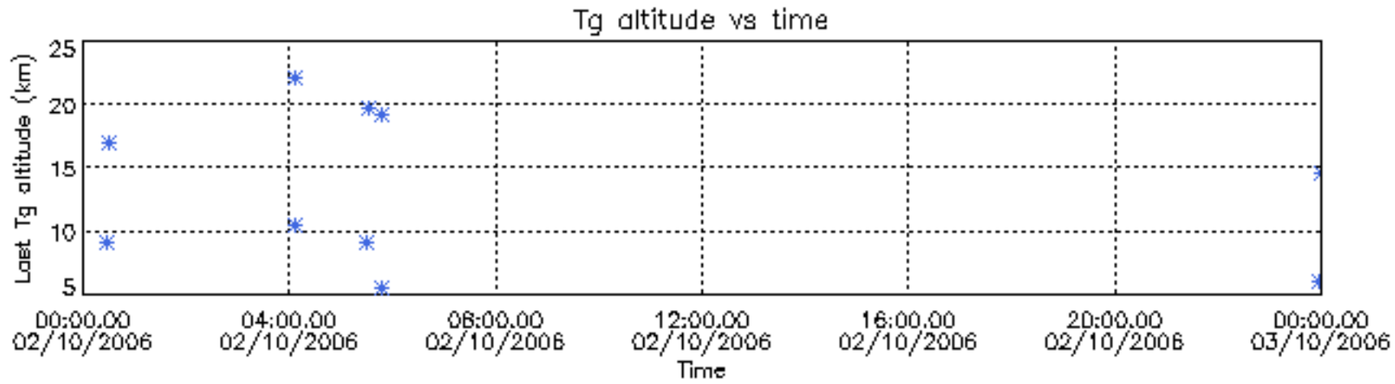
Percentage of star falling outside central band per profile

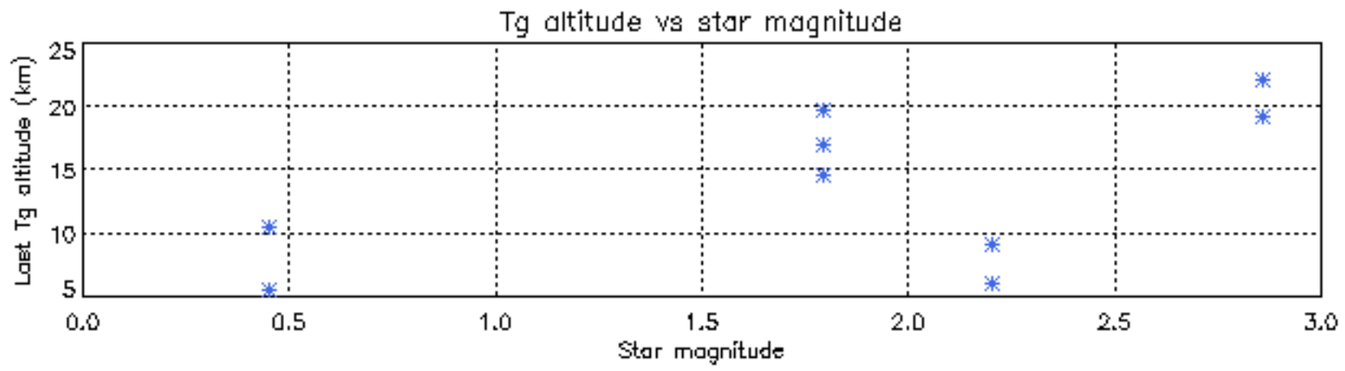


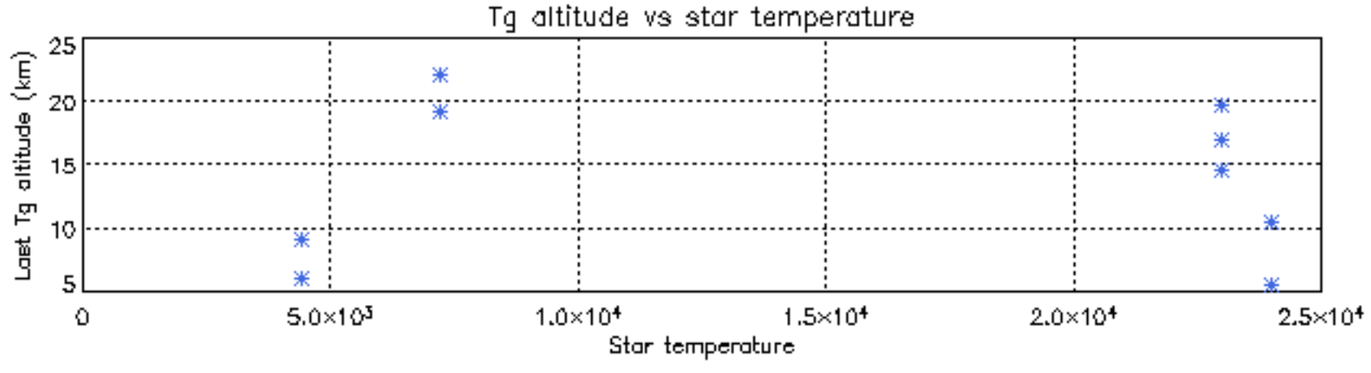
Percentage of saturation errors per profile



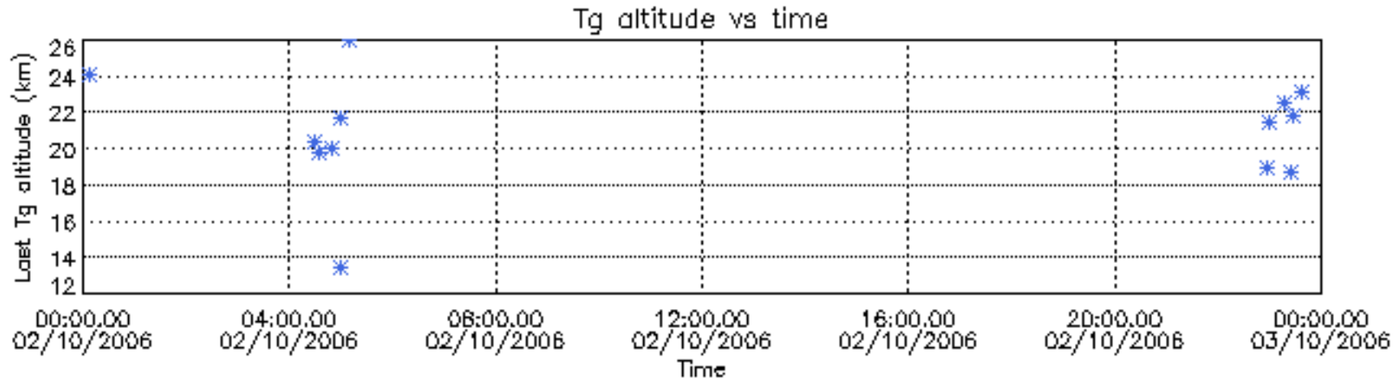
Tangent altitude at which the star is lost

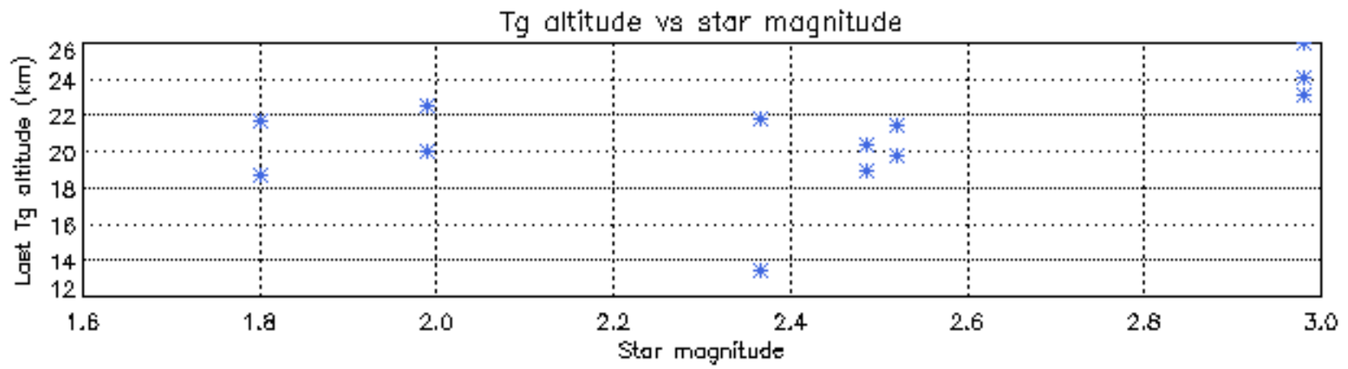


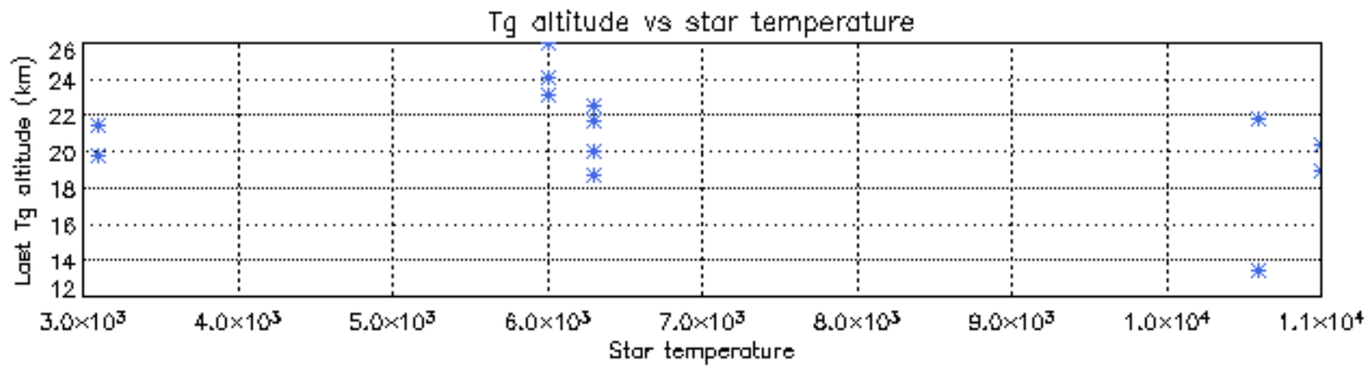




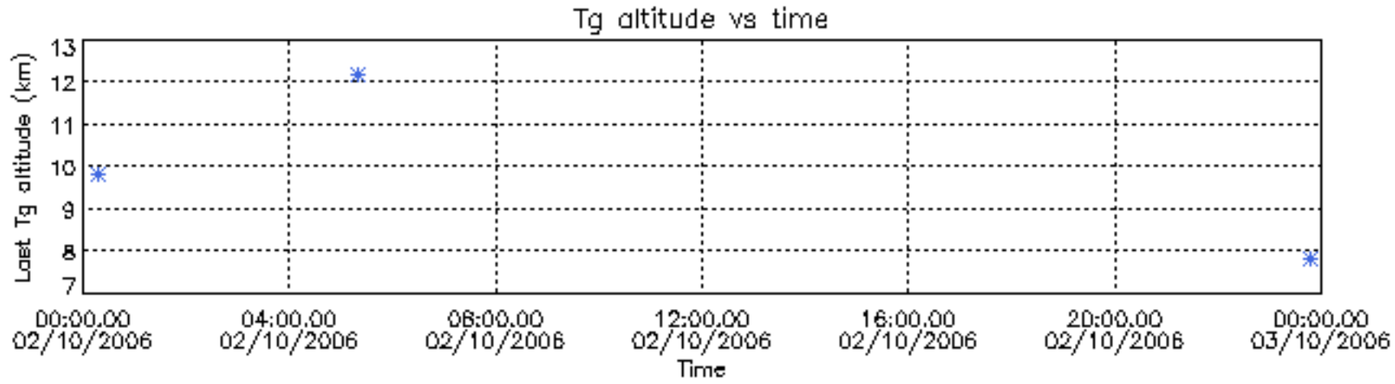
Tangent altitude at which the star is lost

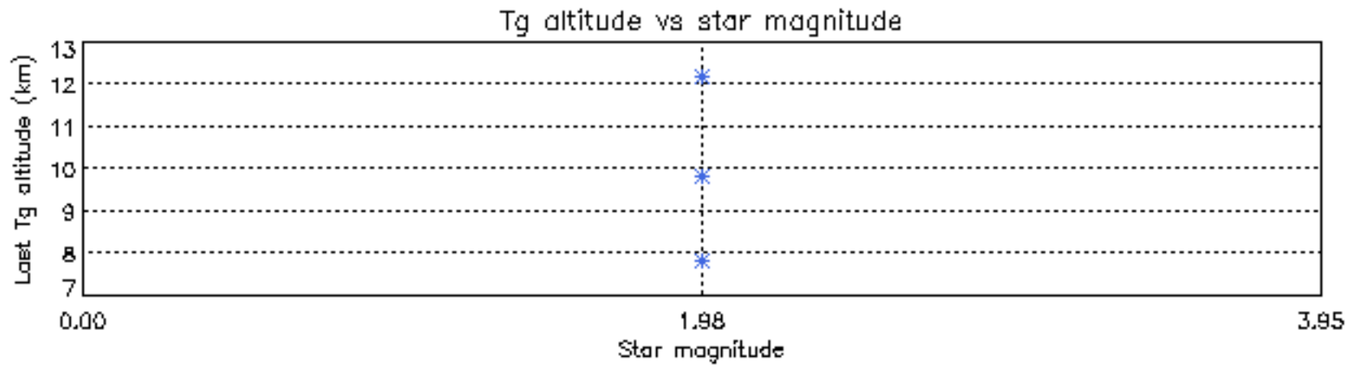


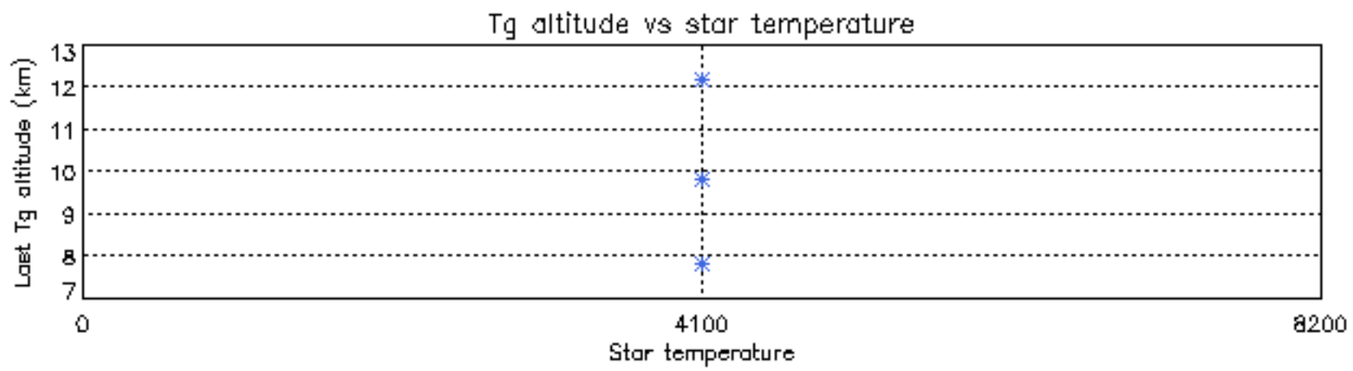


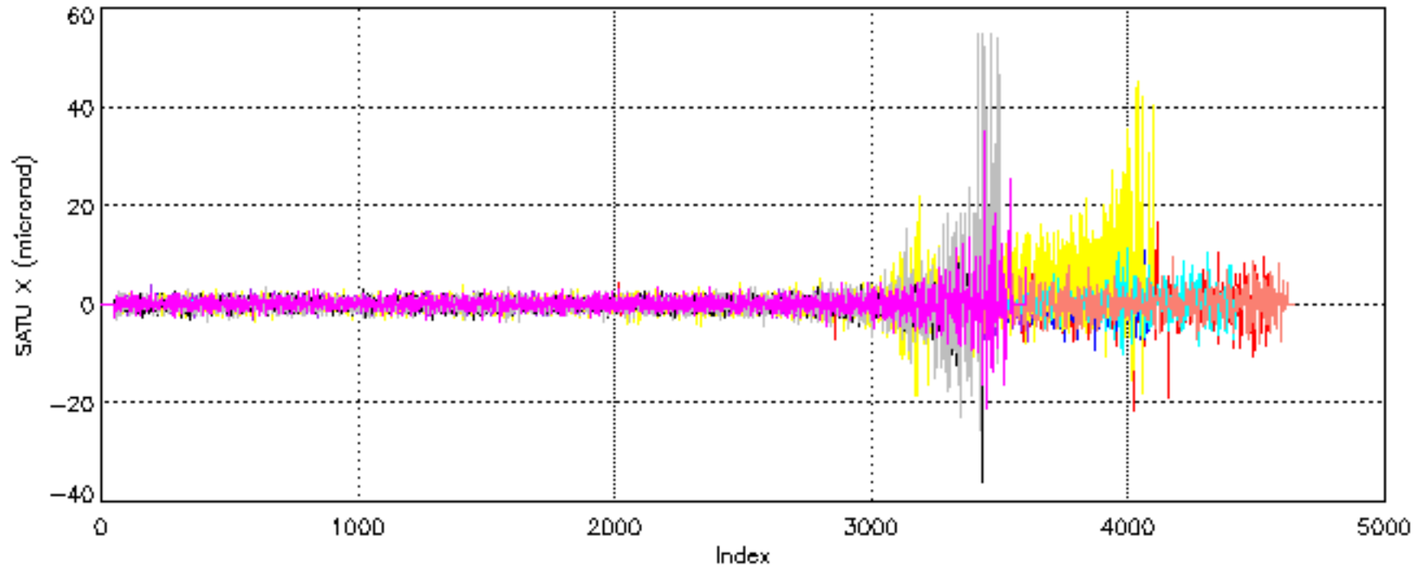


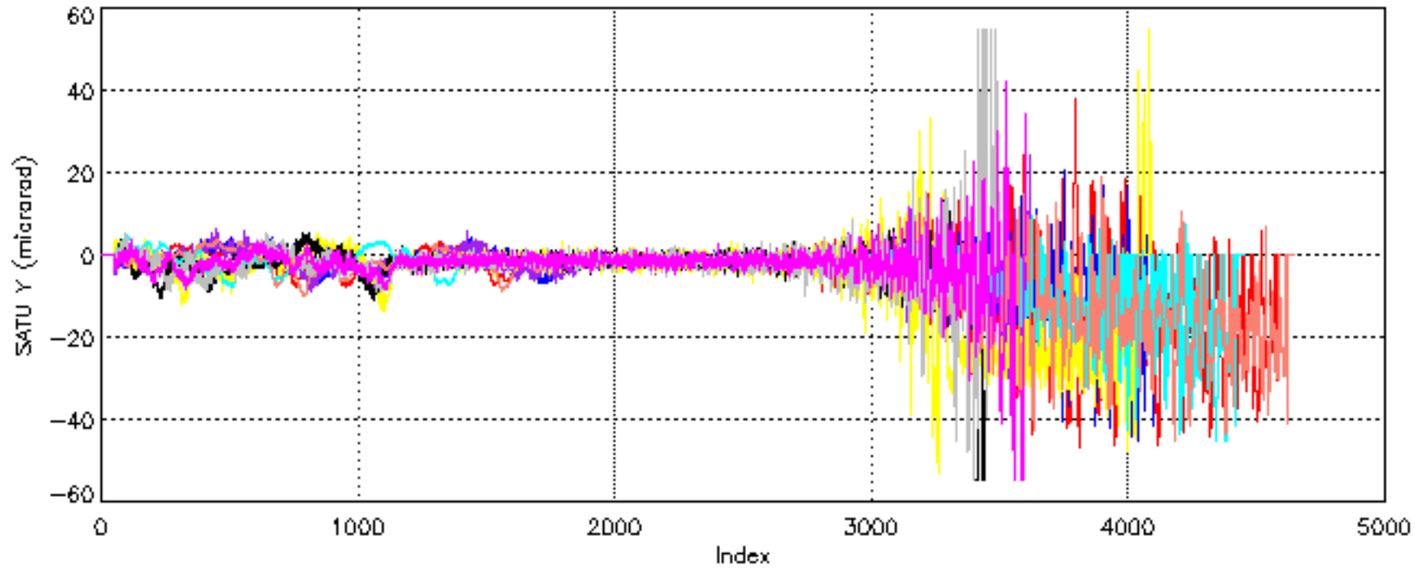
Tangent altitude at which the star is lost

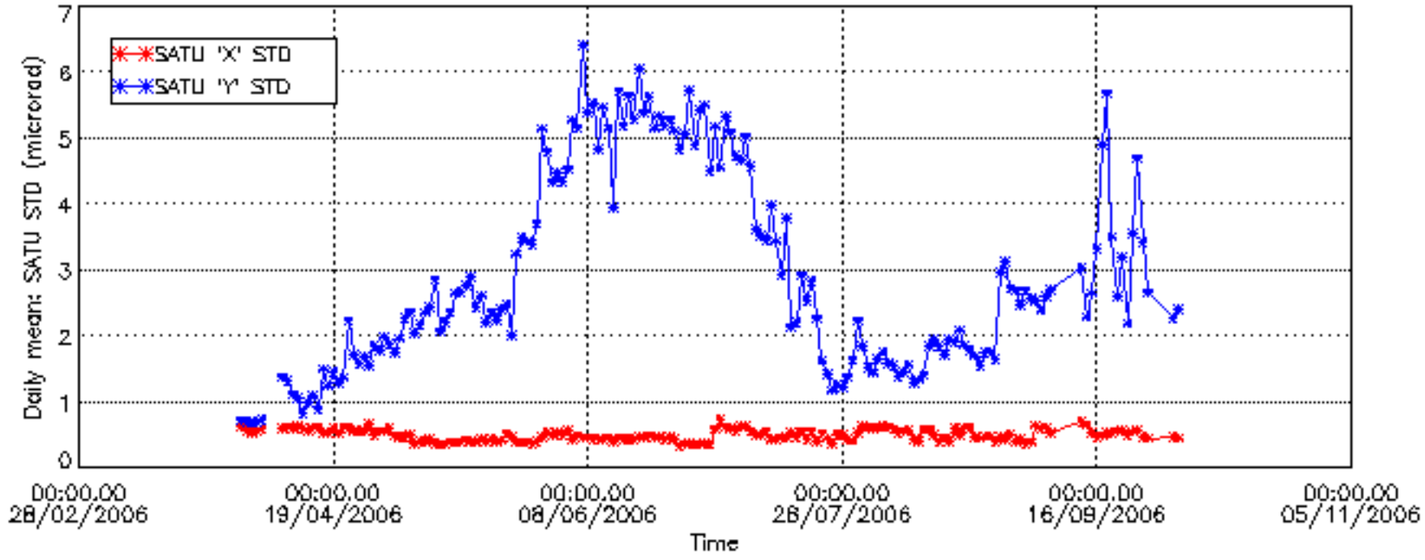







60
40
20
0
−20
−40
SATU X (microrad)
0
1000
2000
3000
4000
5000
Index


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


SATU 'X' STD
SATU 'Y' STD
Daily mean: SATU STD (microrad)
0
1
2
3
4
5
6
7
00:00.00 28/02/2006
00:00.00 19/04/2006
00:00.00 08/06/2006
00:00.00 26/07/2006
00:00.00 16/09/2006
00:00.00 05/11/2006
Time

```
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   2;-3867.5; 01-OCT-2006 21:46:55; Bright;  36.5;   90; 54Alp Peg  ; 2.49; 11000;occ;  73;   0;23988
   3;-3649.4; 01-OCT-2006 21:50:33; Bright;  36.0;   93; 53Bet Peg  ; 2.52;  3100;occ;  72;   0;23988
   4;-2607.4; 01-OCT-2006 22:07:55; Bright;  32.5;   49;  1Alp UMi  ; 1.99;  6300;occ;  65;   0;23988
   5;-2129.4; 01-OCT-2006 22:15:53; Bright;  37.0;   36; 50Alp UMa  ; 1.80;  6300;occ;  74;   0;23988
   6;-2039.1; 01-OCT-2006 22:17:23; Bright;  35.0;   82; 48Bet UMa  ; 2.37; 10600;occ;  70;   0;23988
   7;-1446.3; 01-OCT-2006 22:27:16; Bright;  35.5;  166; 17Eps Leo  ; 2.98;  6000;occ;  71;   0;23988
   8; -870.5; 01-OCT-2006 22:36:52; Dark  ;  43.0;   48; 30Alp Hya  ; 1.98;  4100;occ;  86;   0;23988
   9; -289.9; 01-OCT-2006 22:46:32; Dark  ;  44.0;   65;   Lam Vel  ; 2.20;  4400;occ;  88;   0;23988
  10; -132.8; 01-OCT-2006 22:49:09; Dark  ;  41.5;   34;   Gam2Vel  ; 1.79; 23000;occ;  83;   0;23988
  11;  736.2; 01-OCT-2006 23:03:38; Dark  ;  38.5;  143;   Alp Hyi  ; 2.86;  7200;occ;  77;   0;23989
  12;  823.9; 01-OCT-2006 23:05:06; Dark  ;  49.0;    9;   Alp Eri  ; 0.45; 24000;occ;  98;   0;23989
  13; 1144.4; 01-OCT-2006 23:10:27; Dark  ;  21.5;   84;   Alp Phe  ; 2.40;  4500;occ;  43;   0;23989
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20061001_075811_000004482051_00379_23980_0858.N1
   1;  733.2; 01-OCT-2006 07:58:11; Dark  ;  39.5;  143;   Alp Hyi  ; 2.86;  7200;occ;  79;   0;23980
   2;  821.0; 01-OCT-2006 07:59:39; Dark  ;  49.5;    9;   Alp Eri  ; 0.45; 24000;occ;  99;   0;23980
   3; 1142.7; 01-OCT-2006 08:05:01; Dark  ;  39.5;   84;   Alp Phe  ; 2.40;  4500;occ;  79;   0;23980
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   1;-3866.8; 01-OCT-2006 08:22:07; Bright;  35.5;   90; 54Alp Peg  ; 2.49; 11000;occ;  71;   1;23980
   2;-3649.0; 01-OCT-2006 08:25:45; Bright;  36.0;   93; 53Bet Peg  ; 2.52;  3100;occ;  72;   0;23980
   3;-2606.8; 01-OCT-2006 08:43:07; Bright;  36.0;   49;  1Alp UMi  ; 1.99;  6300;occ;  72;   0;23980
   4;-2129.7; 01-OCT-2006 08:51:04; Bright;  35.0;   36; 50Alp UMa  ; 1.80;  6300;occ;  70;   0;23980
   5;-2039.7; 01-OCT-2006 08:52:34; Bright;  35.5;   82; 48Bet UMa  ; 2.37; 10600;occ;  71;   0;23980
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   7; -873.0; 01-OCT-2006 09:12:01; Dark  ;  43.5;   48; 30Alp Hya  ; 1.98;  4100;occ;  87;   0;23980
   8; -292.3; 01-OCT-2006 09:21:42; Dark  ;  42.0;   65;   Lam Vel  ; 2.20;  4400;occ;  84;   0;23980
   9; -136.5; 01-OCT-2006 09:24:18; Dark  ;  43.5;   34;   Gam2Vel  ; 1.79; 23000;occ;  87;   0;23980
  10;  733.6; 01-OCT-2006 09:38:48; Dark  ;  39.0;  143;   Alp Hyi  ; 2.86;  7200;occ;  78;   0;23981
  11;  821.5; 01-OCT-2006 09:40:16; Dark  ;  46.5;    9;   Alp Eri  ; 0.45; 24000;occ;  93;   0;23981
  12; 1142.9; 01-OCT-2006 09:45:37; Dark  ;  39.0;   84;   Alp Phe  ; 2.40;  4500;occ;  78;   0;23981
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13; 1163.2; 06-OCT-2006 23:53:53; Dark ; 40.0; 84; Alp Phe ; 2.40; 4500;occ; 80; 0;24061
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12; 847.4; 06-OCT-2006 08:43:13; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;24052
13; 1161.9; 06-OCT-2006 08:48:28; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;24052
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9; -171.8; 06-OCT-2006 10:06:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24052
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   8; -261.6; 06-OCT-2006 11:45:56; Dark ; 42.5;   65;   Lam Vel ; 2.20; 4400;occ; 85;   0;24053
   9; -171.4; 06-OCT-2006 11:47:26; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;24053
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   5; 4004.4; 06-OCT-2006 12:57:02; Bright; 36.0;   82; 48Bet UMa ; 2.37; 10600;occ; 72;   0;24054
   6; 4201.2; 06-OCT-2006 13:00:19; Bright; 33.0; 174; 52Psi UMa ; 3.00; 4400;occ; 66;   0;24054
   7; 4790.6; 06-OCT-2006 13:10:08; Bright; 35.5;   22; 32Alp Leo ; 1.36; 15200;occ; 71;   0;24054
   8; 5774.7; 06-OCT-2006 13:26:32; Dark ; 48.5;   65;   Lam Vel ; 2.20; 4400;occ; 97;   0;24054
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  10; 5969.9; 06-OCT-2006 13:29:47; Dark ; 40.5;   46;   Del Vel ; 1.95; 10600;occ; 81;   0;24054
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   7;-1245.4; 06-OCT-2006 14:50:45; Bright; 36.0;   22; 32Alp Leo ; 1.36; 15200;occ; 72;   0;24055
   8; -261.3; 06-OCT-2006 15:07:09; Dark ; 44.5;   65;   Lam Vel ; 2.20; 4400;occ; 89;   0;24055
   9; -171.1; 06-OCT-2006 15:08:39; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;24055
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  11;   29.0; 06-OCT-2006 15:11:59; Dark ; 46.5;   41;   Eps Car ; 1.86; 4100;occ; 93;   0;24056
  12; 760.7; 06-OCT-2006 15:24:11; Dark ; 38.0; 143;   Alp Hyi ; 2.86; 7200;occ; 76;   0;24056
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   3;-2608.5; 06-OCT-2006 16:08:38; Bright; 35.5;   49; 1Alp UMi ; 1.99; 6300;occ; 71;   0;24056
   4;-2123.0; 06-OCT-2006 16:16:43; Bright; 34.5;   36; 50Alp UMa ; 1.80; 6300;occ; 69;   0;24056
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   6;-1835.4; 06-OCT-2006 16:21:31; Bright; 33.5; 174; 52Psi UMa ; 3.00; 4400;occ; 67;   0;24056
   7;-1245.5; 06-OCT-2006 16:31:21; Bright; 53.0;   22; 32Alp Leo ; 1.36; 15200;occ; 106;   0;24056
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  10; -65.9; 06-OCT-2006 16:51:00; Dark ; 39.5;   46;   Del Vel ; 1.95; 10600;occ; 79;   0;24056
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  12; 761.2; 06-OCT-2006 17:04:47; Dark ; 39.0; 143;   Alp Hyi ; 2.86; 7200;occ; 78;   0;24057
  13; 848.6; 06-OCT-2006 17:06:15; Dark ; 51.5;   9;   Alp Eri ; 0.45; 24000;occ; 103;   0;24057
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  11;  -64.9; 06-OCT-2006 18:31:37; Dark  ;  39.0;   46;   Del Vel  ; 1.95; 10600;occ;  78;   0;24057
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   6;-1834.5; 06-OCT-2006 19:42:43; Bright;  34.5;  174; 52Psi UMa  ; 3.00;  4400;occ;  69;   0;24058
   7;-1244.3; 06-OCT-2006 19:52:33; Bright;  37.0;   22; 32Alp Leo  ; 1.36; 15200;occ;  74;   0;24058
   8; -259.5; 06-OCT-2006 20:08:58; Dark  ;  42.0;   65;   Lam Vel  ; 2.20;  4400;occ;  84;   0;24058
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  10;  -64.5; 06-OCT-2006 20:12:13; Dark  ;  38.5;   46;   Del Vel  ; 1.95; 10600;occ;  77;   0;24058
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   5;-2030.8; 06-OCT-2006 21:20:03; Bright;  34.5;   82; 48Bet UMa  ; 2.37; 10600;occ;  69;   0;24059
   6;-1834.5; 06-OCT-2006 21:23:19; Bright;  34.5;  174; 52Psi UMa  ; 3.00;  4400;occ;  69;   0;24059
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   9; 4204.7; 08-OCT-2006 05:14:45; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68;   0;24078
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  11; 4796.8; 08-OCT-2006 05:24:37; Bright; 36.5;   22; 32Alp Leo ; 1.36; 15200;occ; 73;   0;24078
  12; 5207.5; 08-OCT-2006 05:31:28; Dark ; 46.5;   48; 30Alp Hya ; 1.98; 4100;occ; 93;   0;24078
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  10;-1418.8; 09-OCT-2006 01:28:48; Bright;  31.0;  166; 17Eps Leo  ; 2.98;  6000;occ;  62;   0;24090
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   9;-1824.4; 09-OCT-2006 04:43:15; Bright;  29.5;  174; 52Psi UMa  ; 3.00;  4400;occ;  59;   0;24092
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  11;-1413.0; 10-OCT-2006 22:45:05; Bright;  33.5;  166; 17Eps Leo  ; 2.98;  6000;occ;  67;   0;24117
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  17;  202.7; 10-OCT-2006 23:12:01; Dark  ;  37.5;  161;   Tau Pup  ; 2.93;  4500;occ;  75;   0;24118
  18;  285.6; 10-OCT-2006 23:13:24; Dark  ;  53.5;    2;   Alp Car  ;-0.74;  7000;occ; 107;   0;24118
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  13; -229.7; 10-OCT-2006 06:18:49; Dark  ;  39.5;   65;   Lam Vel  ; 2.20;  4400;occ;  79;   0;24107
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  18;  784.7; 10-OCT-2006 06:35:43; Dark  ;  32.5;  143;   Alp Hyi  ; 2.86;  7200;occ;  65;   0;24108
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   5;-2602.0; 10-OCT-2006 07:19:52; Bright;  29.5;   49;  1Alp UMi  ; 1.99;  6300;occ;  59;   0;24108
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   7;-2021.3; 10-OCT-2006 07:29:33; Bright;  47.0;   82; 48Bet UMa  ; 2.37; 10600;occ;  94;   0;24108
   8;-1822.4; 10-OCT-2006 07:32:52; Bright;  28.0;  174; 52Psi UMa  ; 3.00;  4400;occ;  56;   0;24108
   9;-1414.5; 10-OCT-2006 07:39:40; Bright;  33.0;  166; 17Eps Leo  ; 2.98;  6000;occ;  66;   0;24108
  10;-1225.0; 10-OCT-2006 07:42:49; Bright;  29.0;   22; 32Alp Leo  ; 1.36; 15200;occ;  58;   0;24108
  11; -806.1; 10-OCT-2006 07:49:48; Dark  ;  43.5;   48; 30Alp Hya  ; 1.98;  4100;occ;  87;   0;24108
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  14;   62.3; 10-OCT-2006 08:04:17; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;24109
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  11;-1409.5; 11-OCT-2006 20:32:55; Bright;  35.0;  166; 17Eps Leo  ; 2.98;  6000;occ;  70;   0;24130
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  10; 4020.9; 23-OCT-2006 03:59:51; Bright;  30.5;   82; 48Bet UMa  ; 2.37; 10600;occ;  61;   0;24292
  11; 4230.9; 23-OCT-2006 04:03:21; Bright;  29.0;  174; 52Psi UMa  ; 3.00;  4400;occ;  58;   0;24292
  12; 4649.2; 23-OCT-2006 04:10:19; Bright;  29.0;   96; 68Del Leo  ; 2.56;  9300;occ;  58;   0;24292
  13; 5824.8; 23-OCT-2006 04:29:54; Dark  ;  34.5;  113;   Mu  Vel  ; 2.69;  5000;occ;  69;   0;24292
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   5; 2955.6; 23-OCT-2006 12:05:05; Bright; 31.0;   76; 27Gam Cas ; 2.30; 30000;occ; 62;   0;24297
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  15; -199.1; 25-OCT-2006 21:53:28; Dark  ;  32.0;  113;   Mu  Vel  ; 2.69;  5000;occ;  64;   0;24331
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   6; 2951.3; 26-OCT-2006 00:26:34; Bright;  32.0;   76; 27Gam Cas  ; 2.30; 30000;occ;  64;   0;24333
   7; 3430.9; 26-OCT-2006 00:34:34; Bright;  27.0;   49;  1Alp UMi  ; 1.99;  6300;occ;  54;   0;24333
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   9; 3924.8; 26-OCT-2006 00:42:48; Bright;  33.0;   36; 50Alp UMa  ; 1.80;  6300;occ;  66;   0;24333
  10; 4001.2; 26-OCT-2006 00:44:04; Bright;  28.5;   32; 77Eps UMa  ; 1.76; 11000;occ;  57;   0;24333
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  12; 4658.2; 26-OCT-2006 00:55:01; Bright;  28.5;   96; 68Del Leo  ; 2.56;  9300;occ;  57;   0;24333
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