GOMOS Daily Report 14-JUN-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.

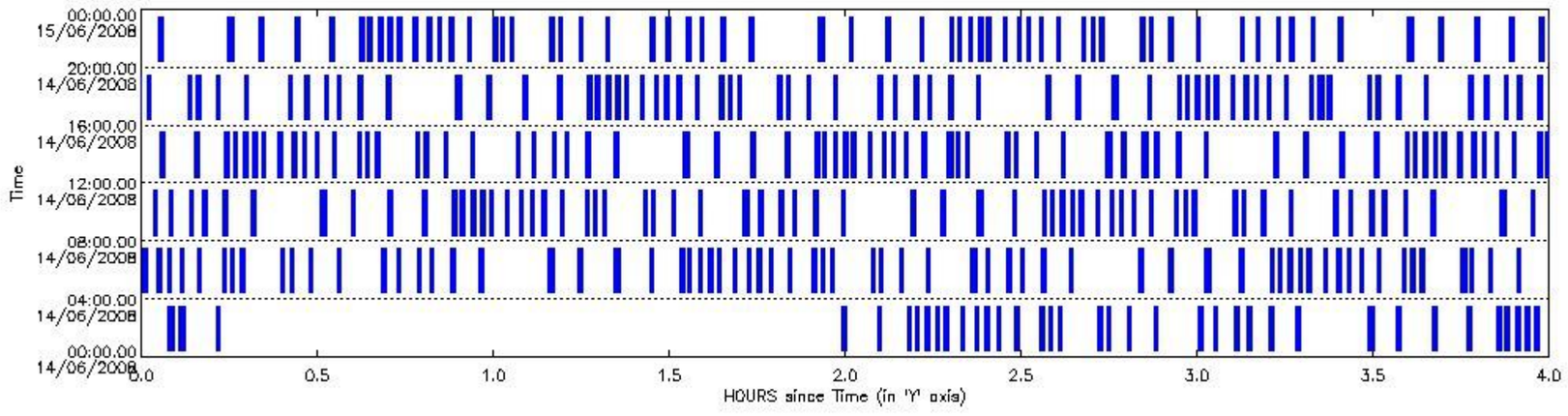
Item	Value
Time of report generation	19JUN2008 11:48:28
Data source version	GOMOS/5.00
Start time of products	14-06-2008 (14JUN2008 00:00:00)
Stop time of products	15-06-2008 (15JUN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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)

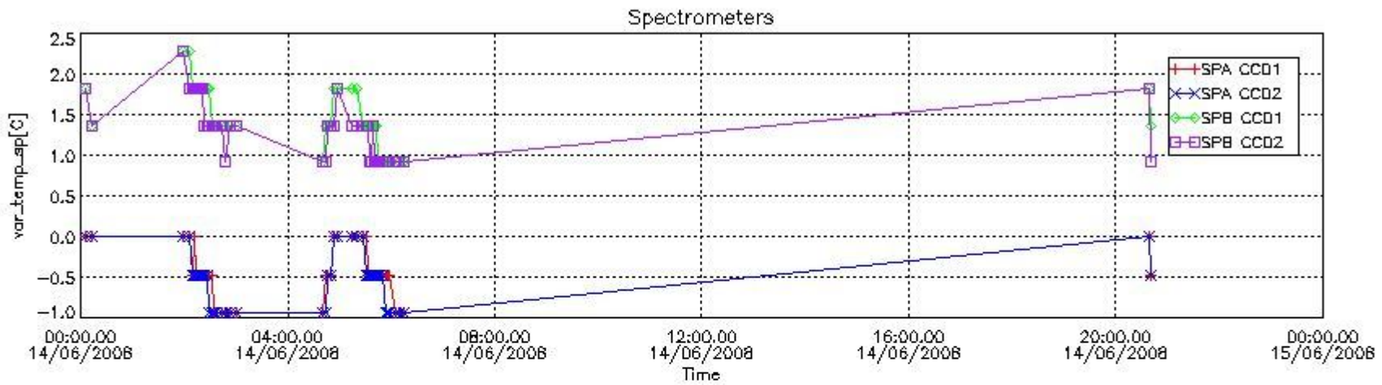
No missing products.

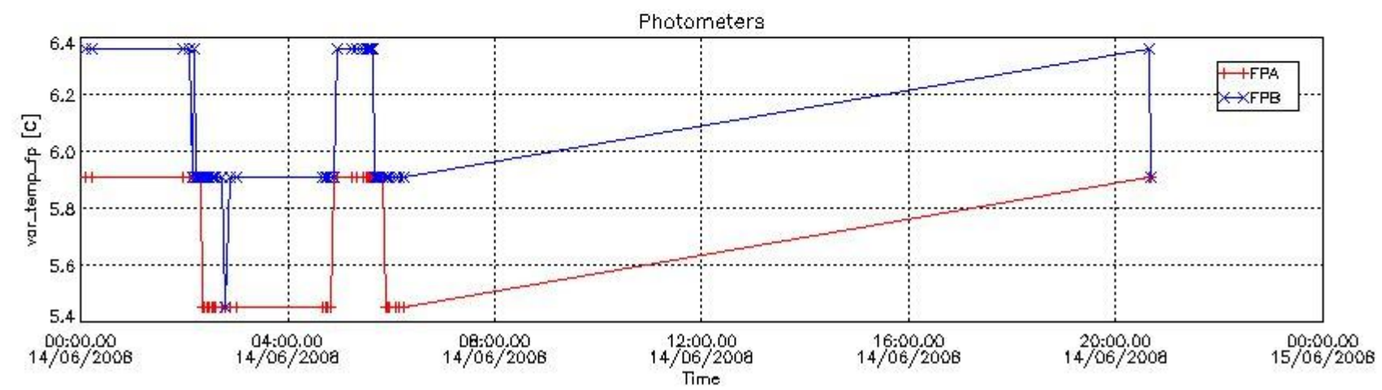
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20080614_000621_000000552069_00259_32878_2406.N1	14-JUN-2008 00:06:21	Dark	55.000	52	16Bet Cet	2.0370	4500.0	110	32878	No
2	GOM_TRA_1PNPDE20080614_001239_000000452069_00259_32878_2407.N1	14-JUN-2008 00:12:39	Dark	45.000	84	Alp Phe	2.3970	4500.0	90	32878	No
3	GOM_TRA_1PNPDE20080614_015925_000000542069_00261_32880_2546.N1	14-JUN-2008 01:59:25	Dark	53.500	63	Bet Gru	2.1500	2800.0	107	32880	No
4	GOM_TRA_1PNPDE20080614_020526_000000442069_00261_32880_2547.N1	14-JUN-2008 02:05:26	Straylight	44.000	45	Alp Pav	1.9400	26000.	88	32880	No
5	GOM_TRA_1PNPDE20080614_021035_000000422069_00261_32880_2548.N1	14-JUN-2008 02:10:35	Straylight	41.500	141	Bet Ara	2.8400	4600.0	83	32880	No
6	GOM_TRA_1PNPDE20080614_021156_000000392069_00261_32880_2549.N1	14-JUN-2008 02:11:56	Straylight	38.500	147	Alp Ara	2.8770	26000.	77	32880	No
7	GOM_TRA_1PNPDE20080614_021341_000000442069_00261_32880_2550.N1	14-JUN-2008 02:13:41	Twi_and_stray	44.000	40	The Sco	1.8590	7100.0	88	32880	No
8	GOM_TRA_1PNPDE20080614_021524_000000422069_00261_32880_2551.N1	14-JUN-2008 02:15:24	Twi_and_stray	42.000	25	35Lam Sco	1.6200	28000.	84	32880	No
9	GOM_TRA_1PNPDE20080614_021653_000000402069_00261_32880_2552.N1	14-JUN-2008 02:16:53	Twi_and_stray	39.500	75	26Eps Sco	2.2910	4250.0	79	32880	No
10	GOM_TRA_1PNPDE20080614_021940_000000372069_00261_32880_2553.N1	14-JUN-2008 02:19:40	Bright	37.000	156	20Sig Sco	2.9030	28000.	74	32880	No
11	GOM_TRA_1PNPDE20080614_022204_000000402069_00261_32880_2554.N1	14-JUN-2008 02:22:04	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	32880	No
12	GOM_TRA_1PNPDE20080614_022348_000000382069_00261_32880_2555.N1	14-JUN-2008 02:23:48	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	32880	No

13	GOM_TRA_1PNPDE20080614_022554_000000372069_00261_32880_2556.N1	14-JUN-2008 02:25:54	Bright	36.500	120	1Del Oph	2.7340	3200.0	73	32880	No
14	GOM_TRA_1PNPDE20080614_022856_000000352069_00261_32880_2557.N1	14-JUN-2008 02:28:56	Bright	34.500	102	24Alp Ser	2.6000	4250.0	69	32880	No
15	GOM_TRA_1PNPDE20080614_023311_000000372069_00261_32880_2558.N1	14-JUN-2008 02:33:11	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	32880	No
16	GOM_TRA_1PNPDE20080614_023439_000000372069_00261_32880_2559.N1	14-JUN-2008 02:34:39	Bright	36.500	67	5Alp CrB	2.2210	11000.	73	32880	No
17	GOM_TRA_1PNPDE20080614_023615_000000402069_00261_32880_2560.N1	14-JUN-2008 02:36:15	Bright	39.500	133	40Zet Her	2.8070	6000.0	79	32880	No
18	GOM_TRA_1PNPDE20080614_024308_000000392069_00261_32880_2561.N1	14-JUN-2008 02:43:08	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	32880	No
19	GOM_TRA_1PNPDE20080614_024436_000000372069_00261_32880_2562.N1	14-JUN-2008 02:44:36	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	32880	No
20	GOM_TRA_1PNPDE20080614_024801_000000342069_00261_32880_2563.N1	14-JUN-2008 02:48:01	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	32880	No
21	GOM_TRA_1PNPDE20080614_025239_000000332069_00261_32880_2564.N1	14-JUN-2008 02:52:39	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	32880	No
22	GOM_TRA_1PNPDE20080614_030013_000000072069_00261_32880_2565.N1	14-JUN-2008 03:00:13	Straylight	6.5000	76	27Gam Cas	2.3000	30000.	13	32880	No
23	GOM_TRA_1PNPDE20080614_044049_000000462069_00262_32881_2814.N1	14-JUN-2008 04:40:49	Bright	45.500	76	27Gam Cas	2.3000	30000.	91	32881	No
24	GOM_TRA_1PNPDE20080614_044329_000000342069_00262_32881_2815.N1	14-JUN-2008 04:43:29	Bright	33.500	160	23Gam Per	2.9300	4700.0	67	32881	No
25	GOM_TRA_1PNPDE20080614_044657_000000402069_00262_32881_2816.N1	14-JUN-2008 04:46:57	Bright	40.000	73	57Gam1And	2.2600	13100.	80	32881	No
26	GOM_TRA_1PNPDE20080614_044911_000000392069_00262_32881_2817.N1	14-JUN-2008 04:49:11	Bright	39.000	173	4Bet Tri	3.0040	8900.0	78	32881	No
27	GOM_TRA_1PNPDE20080614_045245_000000482069_00262_32881_2818.N1	14-JUN-2008 04:52:45	Twilight	47.500	50	13Alp Ari	2.0070	4250.0	95	32881	No
28	GOM_TRA_1PNPDE20080614_045730_000000422069_00262_32881_2819.N1	14-JUN-2008 04:57:30	Dark	42.000	94	92Alp Cet	2.5260	3100.0	84	32881	No
29	GOM_TRA_1PNPDE20080614_051429_000000472069_00262_32881_2820.N1	14-JUN-2008 05:14:29	Dark	47.000	84	Alp Phe	2.3970	4500.0	94	32881	No
30	GOM_TRA_1PNPDE20080614_052039_000000632069_00263_32882_2821.N1	14-JUN-2008 05:20:39	Dark	63.000	63	Bet Gru	2.1500	2800.0	126	32882	No
31	GOM_TRA_1PNPDE20080614_052639_000000422069_00263_32882_2822.N1	14-JUN-2008 05:26:39	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	32882	No
32	GOM_TRA_1PNPDE20080614_053147_000000462069_00263_32882_2823.N1	14-JUN-2008 05:31:47	Straylight	46.000	141	Bet Ara	2.8400	4600.0	92	32882	No
33	GOM_TRA_1PNPDE20080614_053309_000000372069_00263_32882_2824.N1	14-JUN-2008 05:33:09	Straylight	36.500	147	Alp Ara	2.8770	26000.	73	32882	No
34	GOM_TRA_1PNPDE20080614_053454_000000402069_00263_32882_2825.N1	14-JUN-2008 05:34:54	Twi_and_stray	39.500	40	The Sco	1.8590	7100.0	79	32882	No
35	GOM_TRA_1PNPDE20080614_053637_000000422069_00263_32882_2826.N1	14-JUN-2008 05:36:37	Twi_and_stray	42.000	25	35Lam Sco	1.6200	28000.	84	32882	No
36	GOM_TRA_1PNPDE20080614_053805_000000442069_00263_32882_2827.N1	14-JUN-2008 05:38:05	Twi_and_stray	44.000	75	26Eps Sco	2.2910	4250.0	88	32882	No
37	GOM_TRA_1PNPDE20080614_054052_000000372069_00263_32882_2828.N1	14-JUN-2008 05:40:52	Bright	36.500	156	20Sig Sco	2.9030	28000.	73	32882	No
38	GOM_TRA_1PNPDE20080614_054316_000000382069_00263_32882_2829.N1	14-JUN-2008 05:43:16	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	32882	No
39	GOM_TRA_1PNPDE20080614_054500_000000372069_00263_32882_2830.N1	14-JUN-2008 05:45:00	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	32882	No
40	GOM_TRA_1PNPDE20080614_054706_000000362069_00263_32882_2831.N1	14-JUN-2008 05:47:06	Bright	36.000	120	1Del Oph	2.7340	3200.0	72	32882	No
41	GOM_TRA_1PNPDE20080614_055008_000000352069_00263_32882_2832.N1	14-JUN-2008 05:50:08	Bright	35.000	102	24Alp Ser	2.6000	4250.0	70	32882	No
42	GOM_TRA_1PNPDE20080614_055423_000000372069_00263_32882_2833.N1	14-JUN-2008 05:54:23	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	32882	No
43	GOM_TRA_1PNPDE20080614_055551_000000352069_00263_32882_2834.N1	14-JUN-2008 05:55:51	Bright	34.500	67	5Alp CrB	2.2210	11000.	69	32882	No
44	GOM_TRA_1PNPDE20080614_055727_000000382069_00263_32882_2835.N1	14-JUN-2008 05:57:27	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	32882	No
45	GOM_TRA_1PNPDE20080614_060420_000000412069_00263_32882_2836.N1	14-JUN-2008 06:04:20	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	32882	No
46	GOM_TRA_1PNPDE20080614_060548_000000372069_00263_32882_2837.N1	14-JUN-2008 06:05:48	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	32882	No
47	GOM_TRA_1PNPDE20080614_060913_000000362069_00263_32882_2838.N1	14-JUN-2008 06:09:13	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	32882	No
48	GOM_TRA_1PNPDE20080614_061351_000000342069_00263_32882_2839.N1	14-JUN-2008 06:13:51	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	32882	No
49	GOM_TRA_1PNPDE20080614_203835_000000402069_00272_32891_3789.N1	14-JUN-2008 20:38:35	Straylight	40.000	147	Alp Ara	2.8770	26000.	80	32891	Yes
50	GOM_TRA_1PNPDE20080614_204020_000000442069_00272_32891_3790.N1	14-JUN-2008 20:40:20	Twi_and_stray	44.000	40	The Sco	1.8590	7100.0	88	32891	No

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





4. Overview of dark signal processing per product

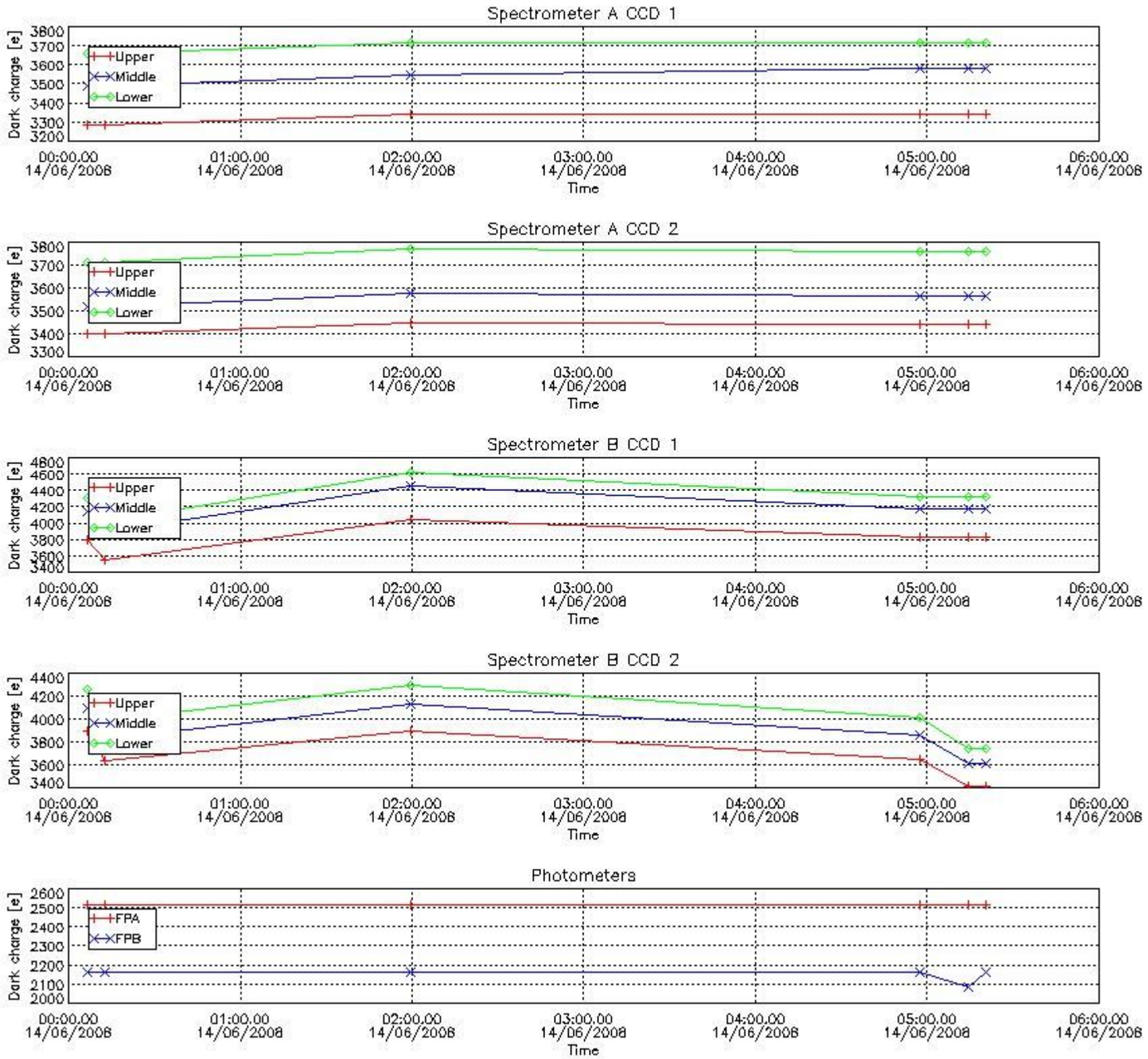
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20080614_015925_000000542069_00261_32880_2546.N1	DC map used
GOM_TRA_1PNPDE20080614_020526_000000442069_00261_32880_2547.N1	DC map used
GOM_TRA_1PNPDE20080614_021035_000000422069_00261_32880_2548.N1	DC map used
GOM_TRA_1PNPDE20080614_021156_000000392069_00261_32880_2549.N1	DC map used
GOM_TRA_1PNPDE20080614_021341_000000442069_00261_32880_2550.N1	DC map used
GOM_TRA_1PNPDE20080614_021524_000000422069_00261_32880_2551.N1	DC map used
GOM_TRA_1PNPDE20080614_021653_000000402069_00261_32880_2552.N1	DC map used
GOM_TRA_1PNPDE20080614_021940_000000372069_00261_32880_2553.N1	DC map used
GOM_TRA_1PNPDE20080614_022204_000000402069_00261_32880_2554.N1	DC map used
GOM_TRA_1PNPDE20080614_022348_000000382069_00261_32880_2555.N1	DC map used
GOM_TRA_1PNPDE20080614_022554_000000372069_00261_32880_2556.N1	DC map used
GOM_TRA_1PNPDE20080614_022856_000000352069_00261_32880_2557.N1	DC map used
GOM_TRA_1PNPDE20080614_023311_000000372069_00261_32880_2558.N1	DC map used
GOM_TRA_1PNPDE20080614_023439_000000372069_00261_32880_2559.N1	DC map used

GOM_TRA_1PNPDE20080614_023615_000000402069_00261_32880_2560.N1	DC map used
GOM_TRA_1PNPDE20080614_024308_000000392069_00261_32880_2561.N1	DC map used
GOM_TRA_1PNPDE20080614_024436_000000372069_00261_32880_2562.N1	DC map used
GOM_TRA_1PNPDE20080614_024801_000000342069_00261_32880_2563.N1	DC map used
GOM_TRA_1PNPDE20080614_025239_000000332069_00261_32880_2564.N1	DC map used
GOM_TRA_1PNPDE20080614_030013_000000072069_00261_32880_2565.N1	DC map used
GOM_TRA_1PNPDE20080614_203835_000000402069_00272_32891_3789.N1	DC map with no T dep.
GOM_TRA_1PNPDE20080614_204020_000000442069_00272_32891_3790.N1	DC map used

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



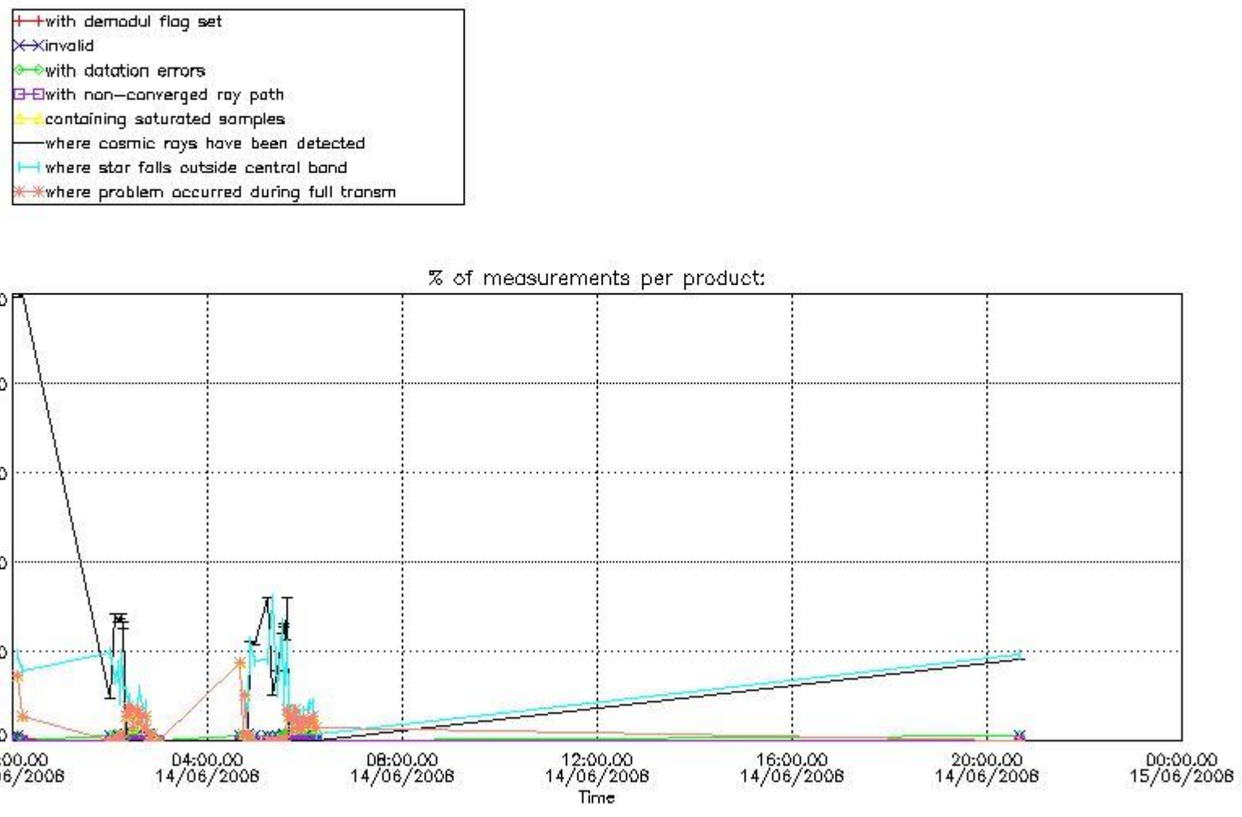
5. Demodulation flag and quality information monitoring

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:

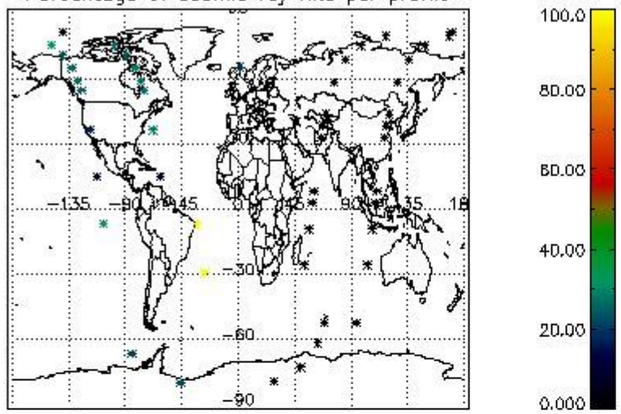
At least one measurement with demodulation flag set:	20.4082 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

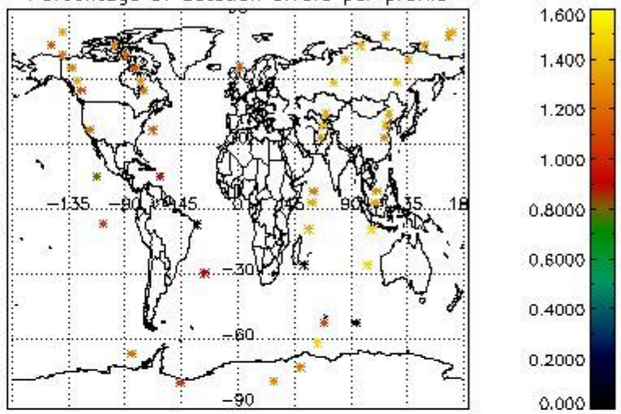


5.3 Plot quality information per product (world map)

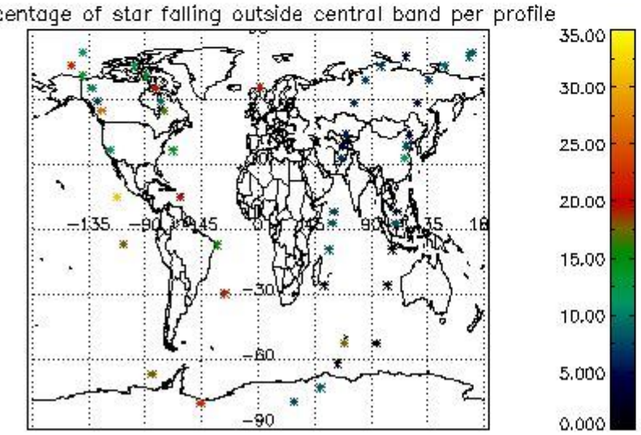
Percentage of cosmic ray hits per profile



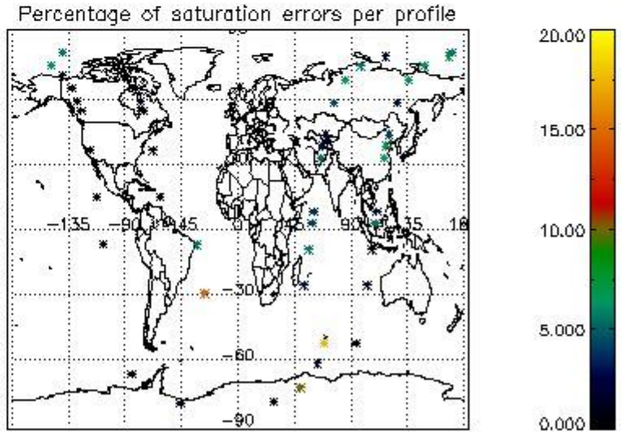
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



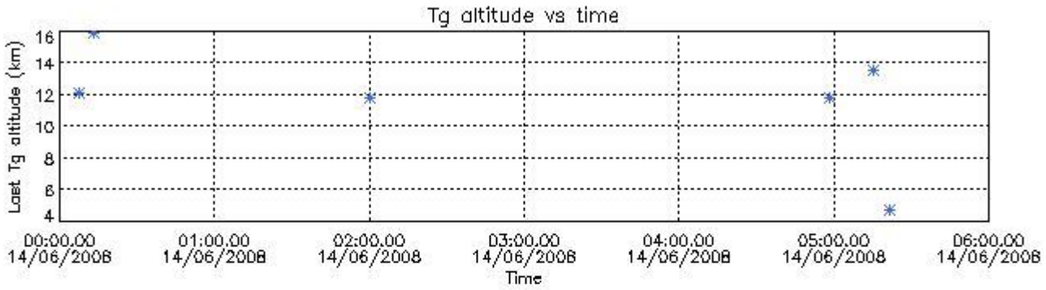
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

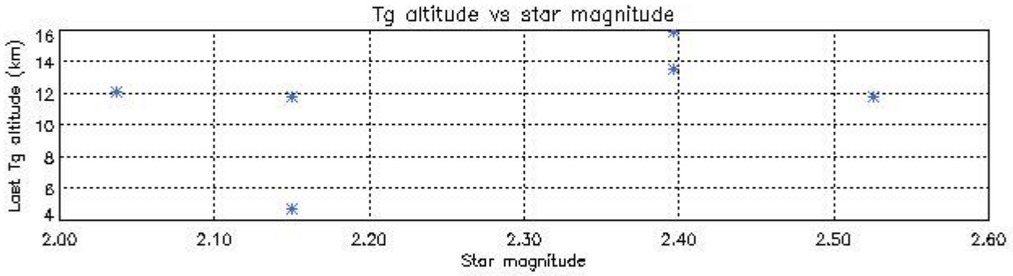
6.1 Statistics on tangent altitude lost:

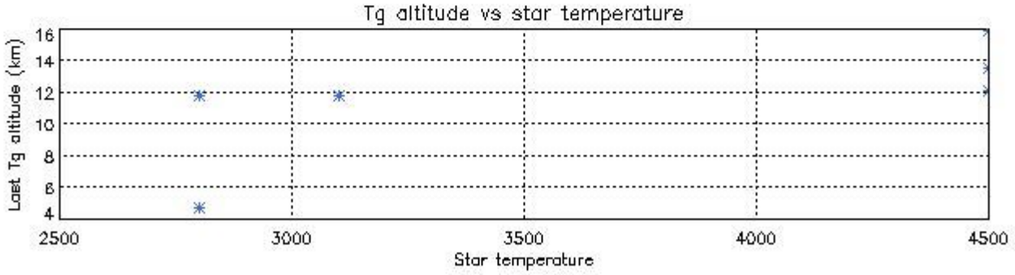
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.623	21.171	10.330
St. deviation:	3.7474	2.7812	0.0000
Maximum:	15.903	27.402	10.330
Minimum:	4.6911	14.586	10.330
Number of data:	6.0000	28.000	1.0000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

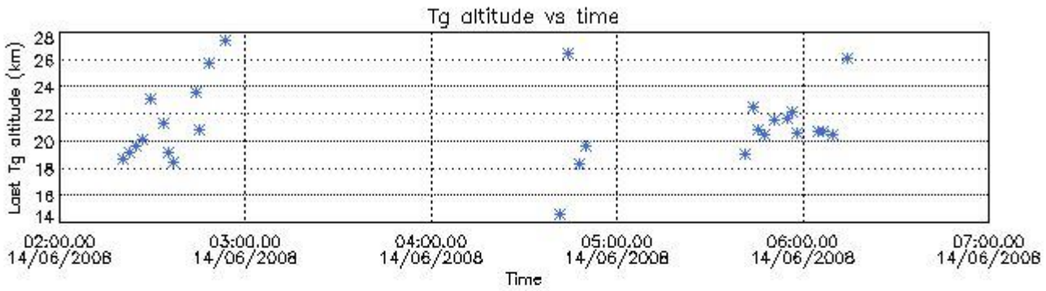


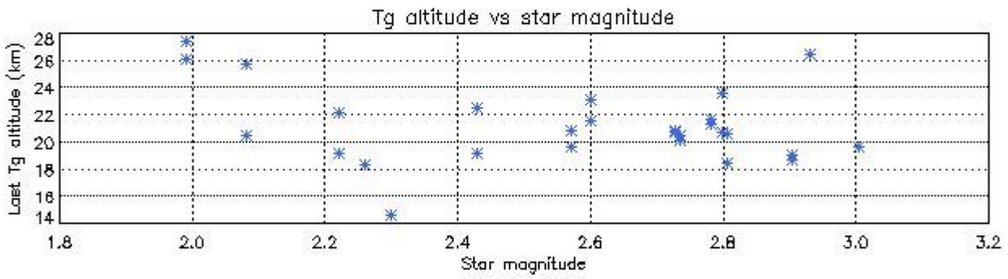


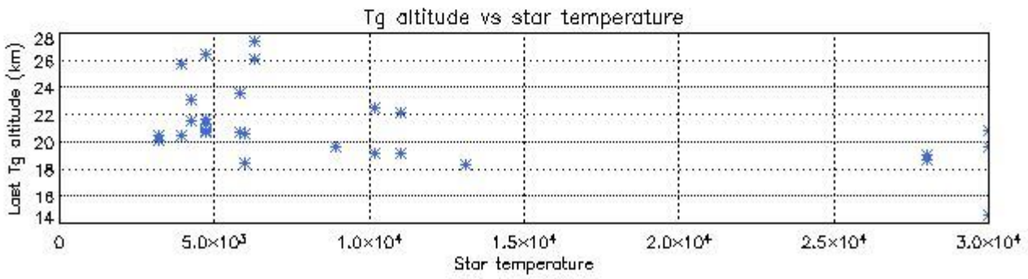


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

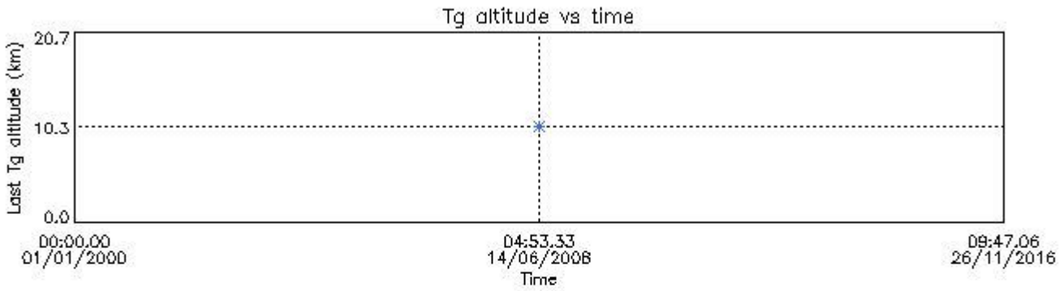


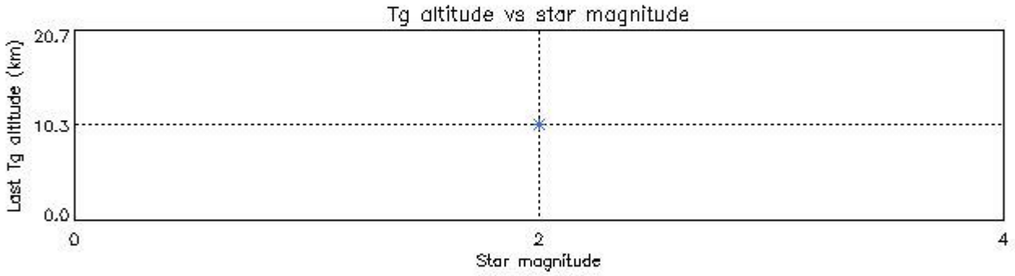


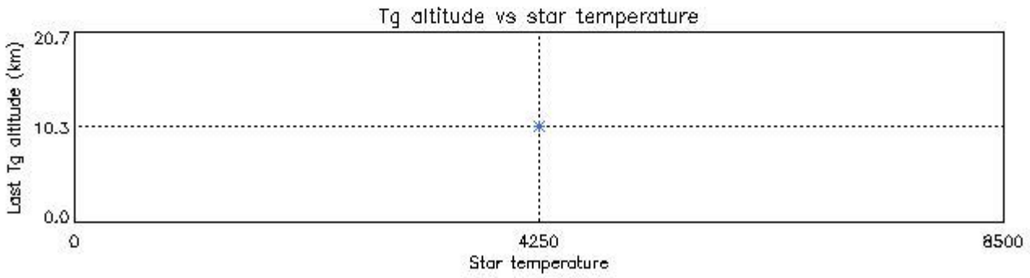


6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost





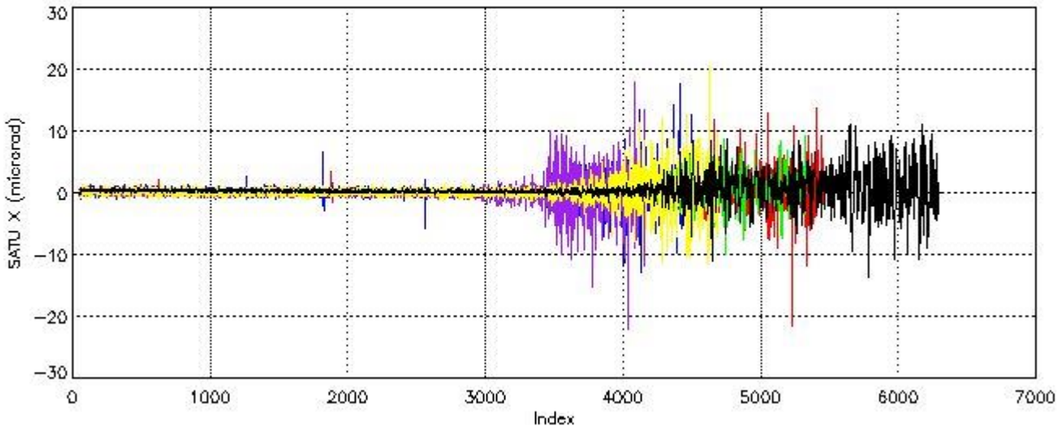


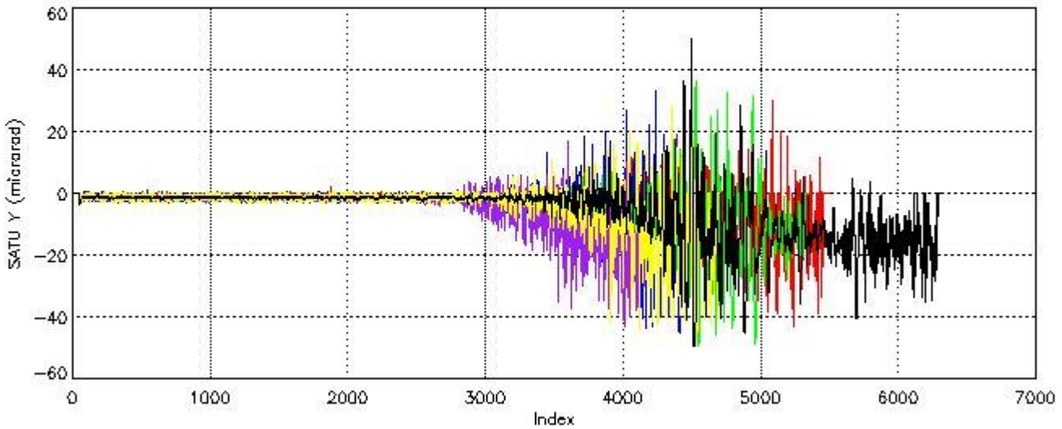
7. Star Acquisition and Tracking Unit (SATU)

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:	0.17695	-1.3359	0.12948	-1.3665
St. deviation:	0.26996	0.60414	0.80636	1.2838
Maximum:	2.0000	0.80000	4.8000	4.1000
Minimum:	-1.1000	-4.3000	-4.3000	-7.5000

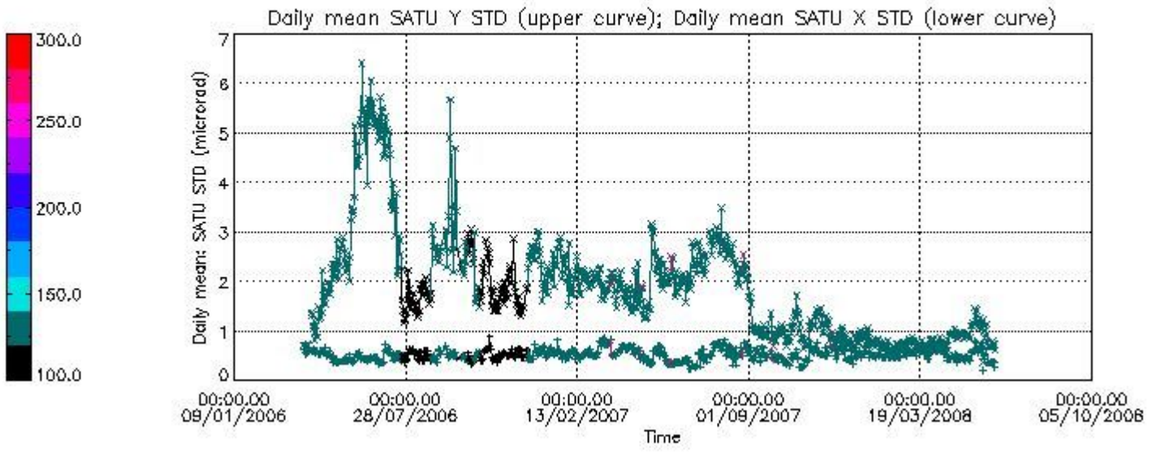
Number of data:	6250.0	6250.0	23750.	23750.

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.

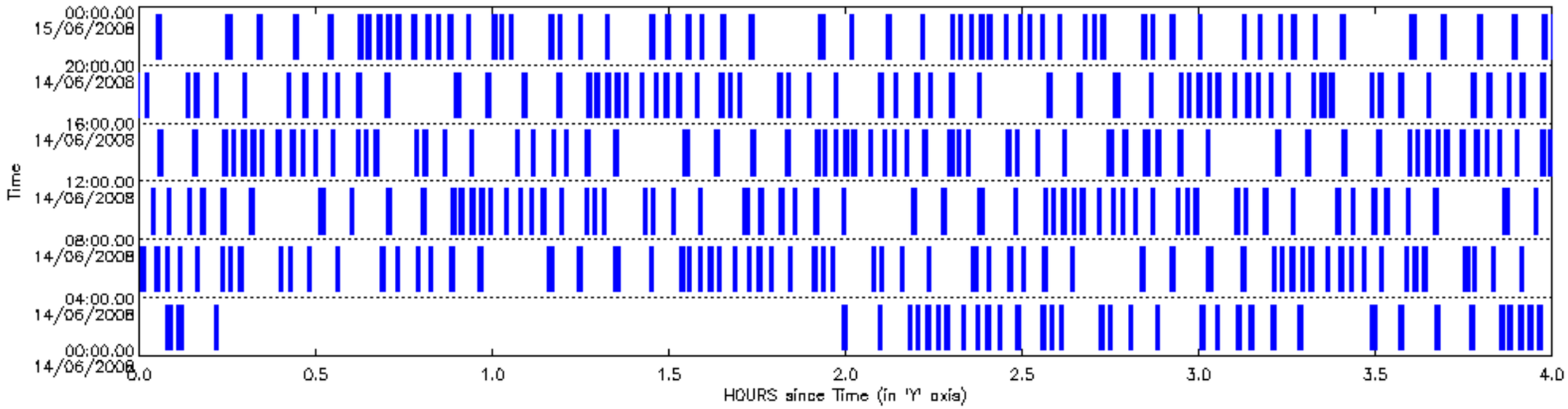
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

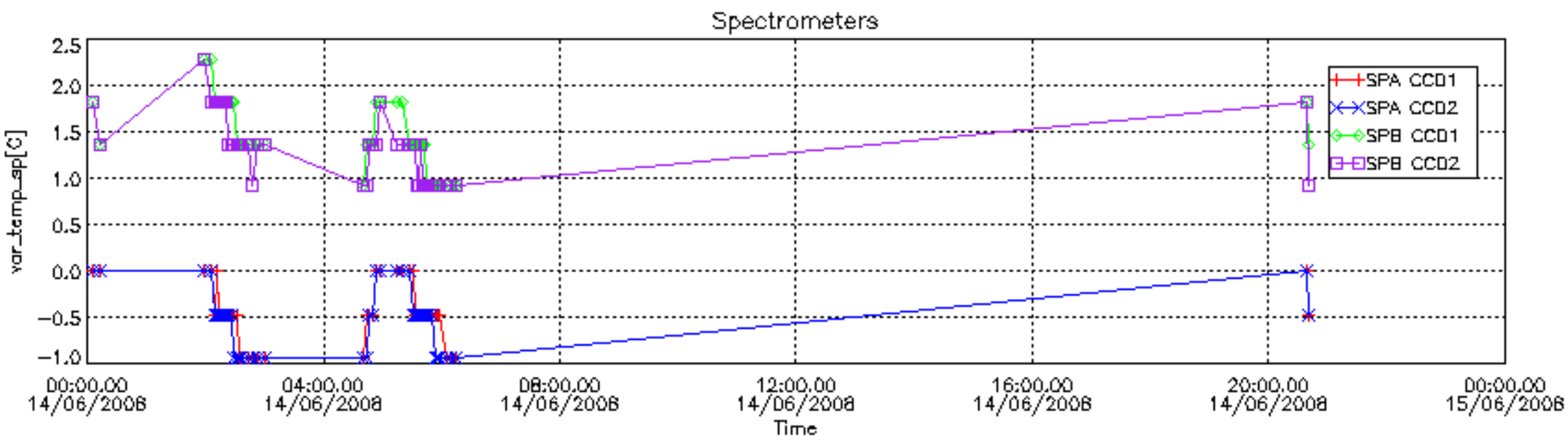


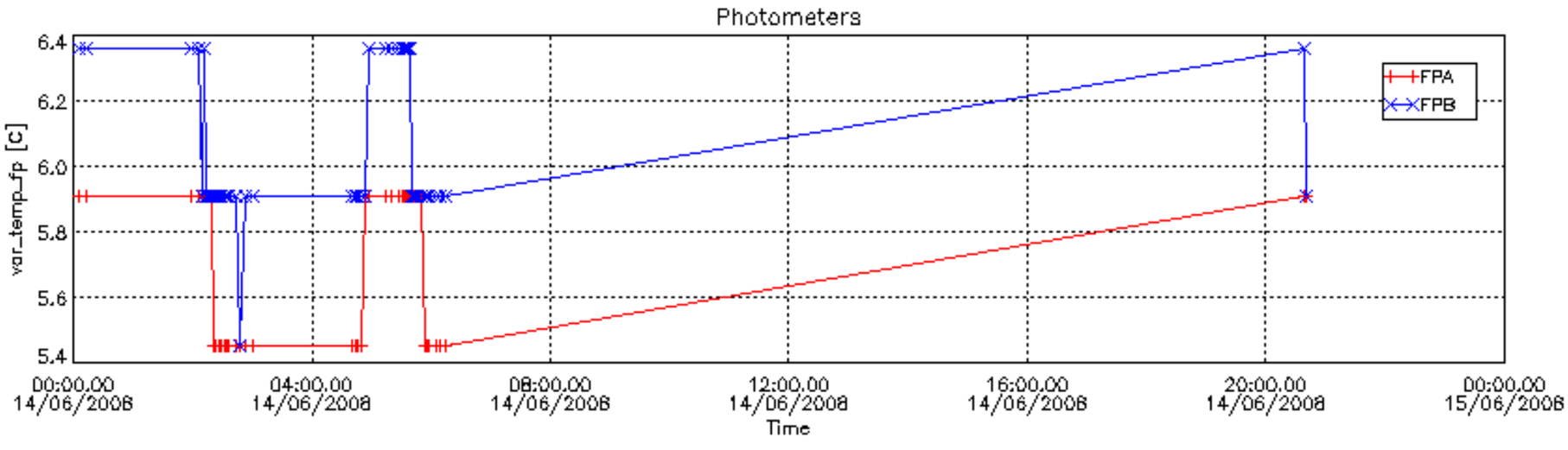
8. Auxiliary Data Files used for the production reported in section 2.4

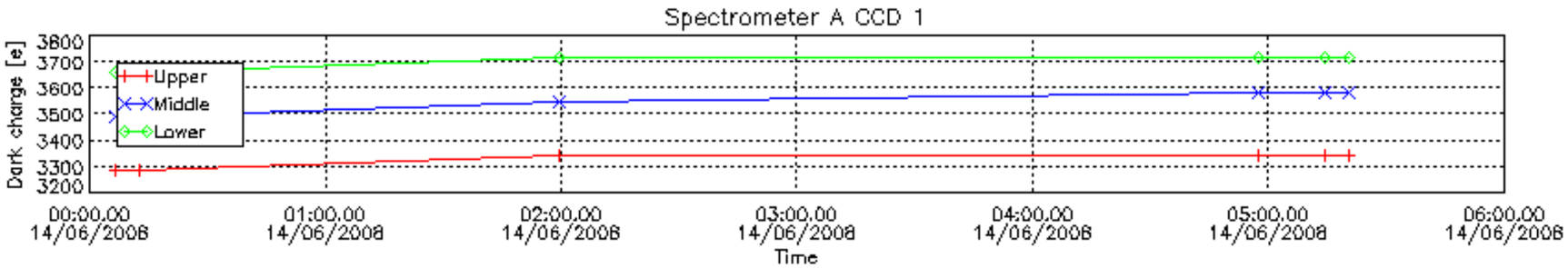
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

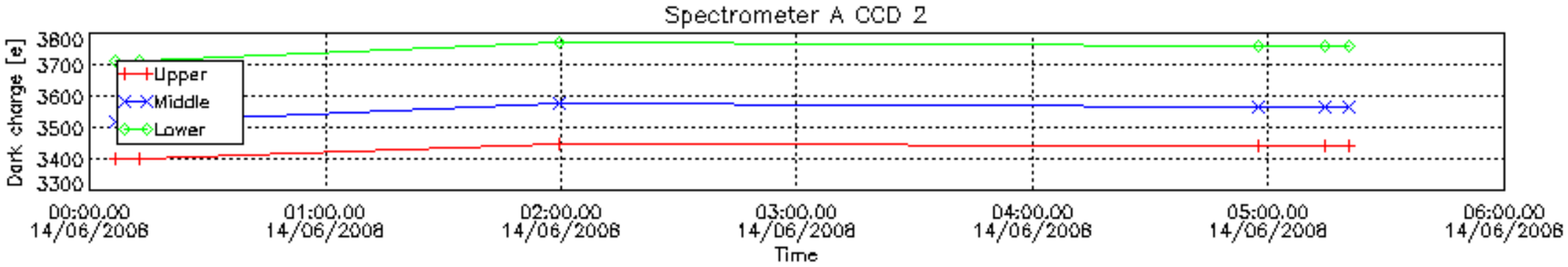
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	14-JUN-2008 00:06:21
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080609_083139_20080607_000000_20100101_000000	1	14-JUN-2008 00:06:21
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	14-JUN-2008 00:06:21
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-JUN-2008 00:06:21
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	14-JUN-2008 00:06:21
ECMWF_FILE	AUX_ECF_AXNECM20080613_072113_20080613_210000_20080614_090000	1	14-JUN-2008 00:06:21
ECMWF_FILE	AUX_ECF_AXNECM20080613_192114_20080614_030000_20080614_150000	23	14-JUN-2008 04:40:49
ECMWF_FILE	AUX_ECF_AXNECM20080614_072114_20080614_150000_20080615_030000	49	14-JUN-2008 20:38:35
OPTIONAL_ECMWF_FILE	MISSING	1	14-JUN-2008 00:06:21
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20080613_221711_000057382069_00258_32877_5731.N1	1	14-JUN-2008 00:06:21
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20080613_235808_000057382069_00259_32878_5732.N1	3	14-JUN-2008 01:59:25
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20080614_025847_000054192069_00261_32880_5734.N1	23	14-JUN-2008 04:40:49
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20080614_203606_000038252069_00272_32891_5736.N1	49	14-JUN-2008 20:38:35

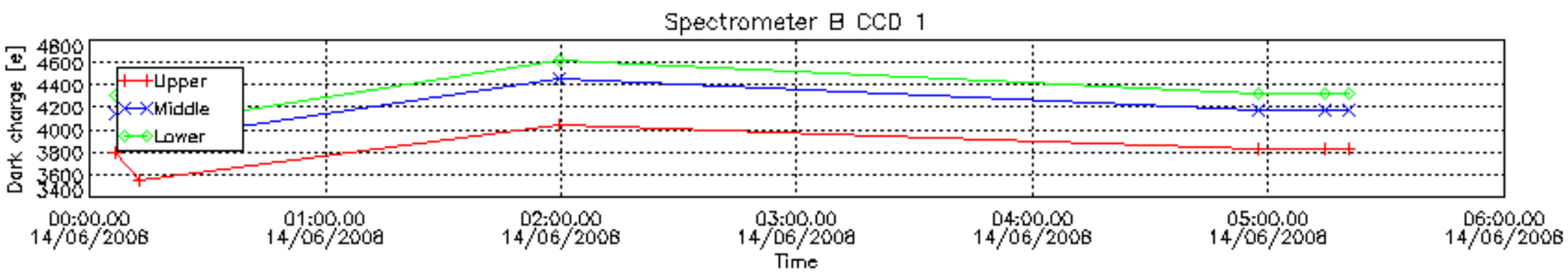

00:00.00
15/06/2008
20:00.00
14/06/2008
16:00.00
14/06/2008
12:00.00
14/06/2008
08:00.00
14/06/2008
04:00.00
14/06/2008
00:00.00
14/06/2008
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

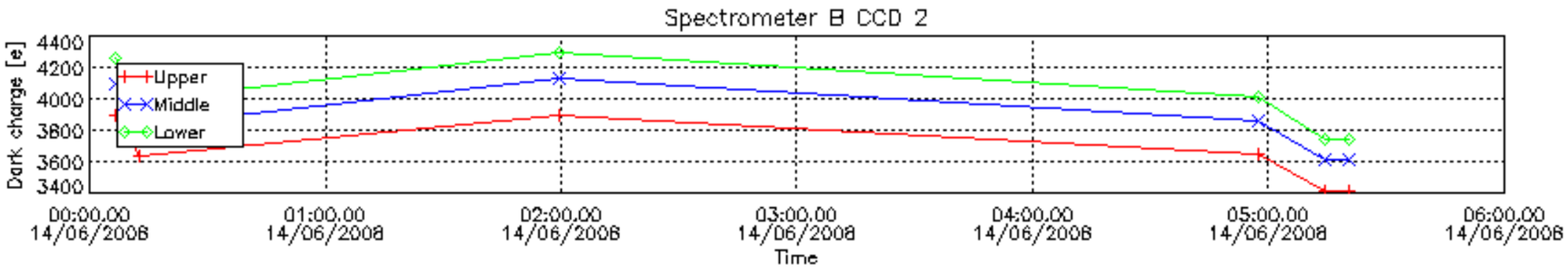

Spectrometers
var_temp_sp[C]
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
14/06/2008
04:00.00
14/06/2008
08:00.00
14/06/2008
12:00.00
14/06/2008
16:00.00
14/06/2008
20:00.00
14/06/2008
00:00.00
15/06/2008
Time

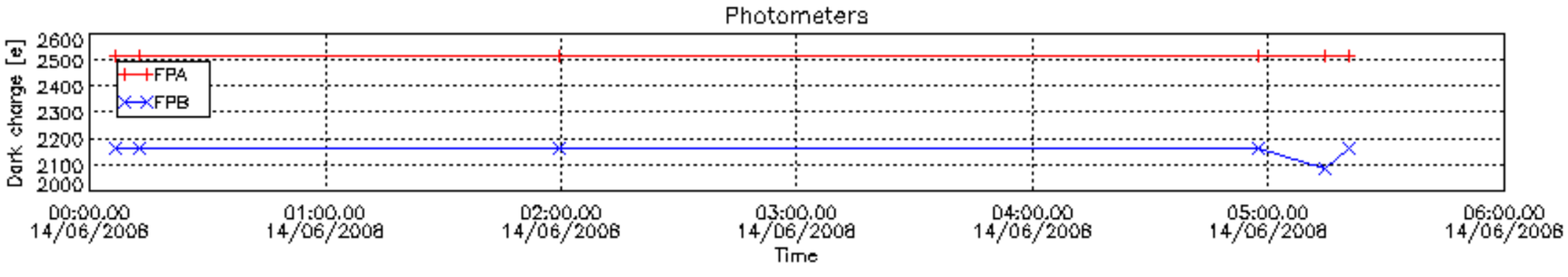

Photometers
var_temp_fp [C]
6.4
6.2
6.0
5.8
5.6
5.4
FPA
FPB
00:00.00
14/06/2008
04:00.00
14/06/2008
08:00.00
14/06/2008
12:00.00
14/06/2008
16:00.00
14/06/2008
20:00.00
14/06/2008
00:00.00
15/06/2008
Time

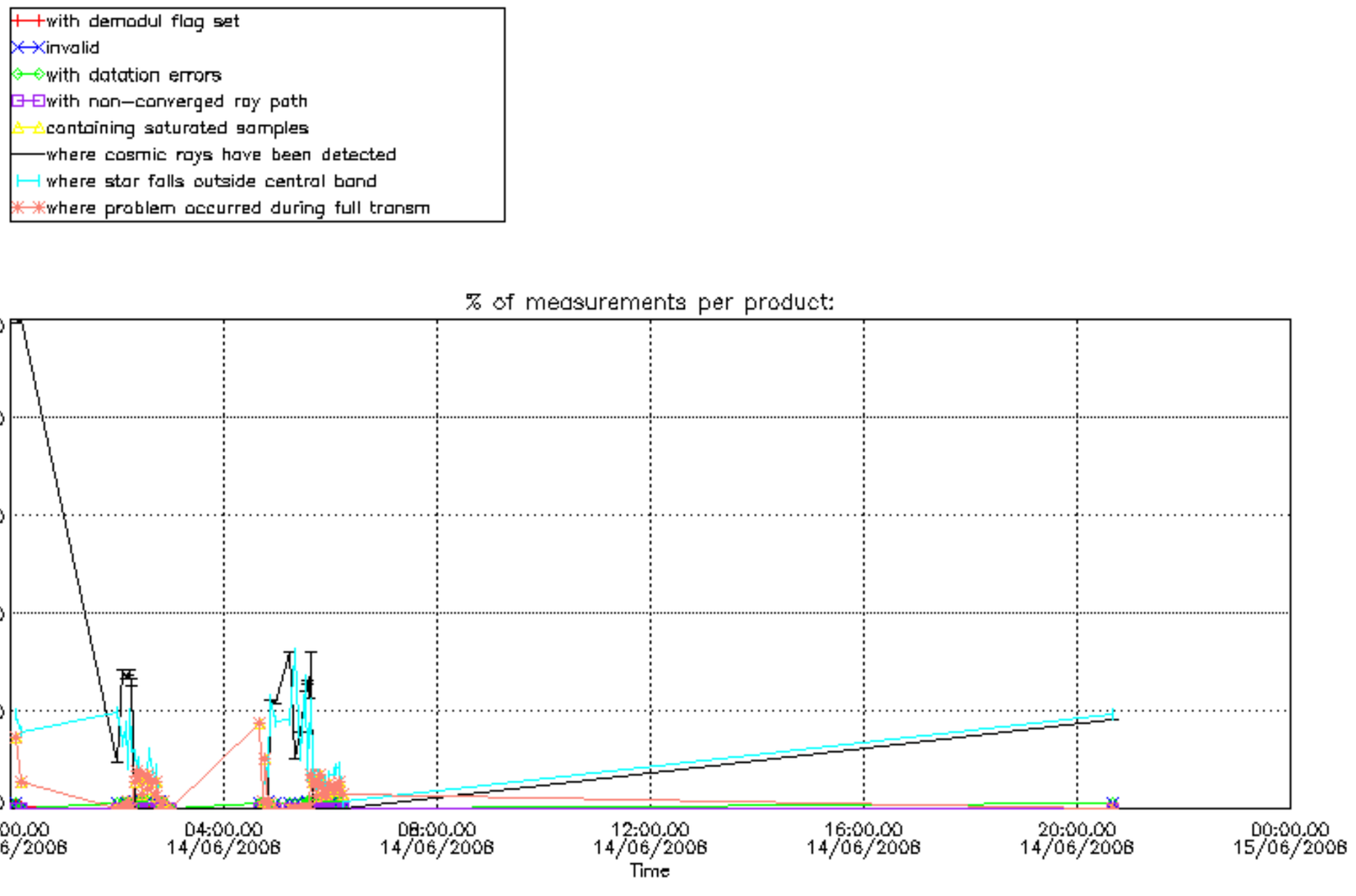

Spectrometer A CCD 1
Dark charge [e]
3800
3700
3600
3500
3400
3300
3200
Upper
Middle
Lower
00:00.00 14/06/2008
01:00.00 14/06/2008
02:00.00 14/06/2008
03:00.00 14/06/2008
04:00.00 14/06/2008
05:00.00 14/06/2008
06:00.00 14/06/2008
Time

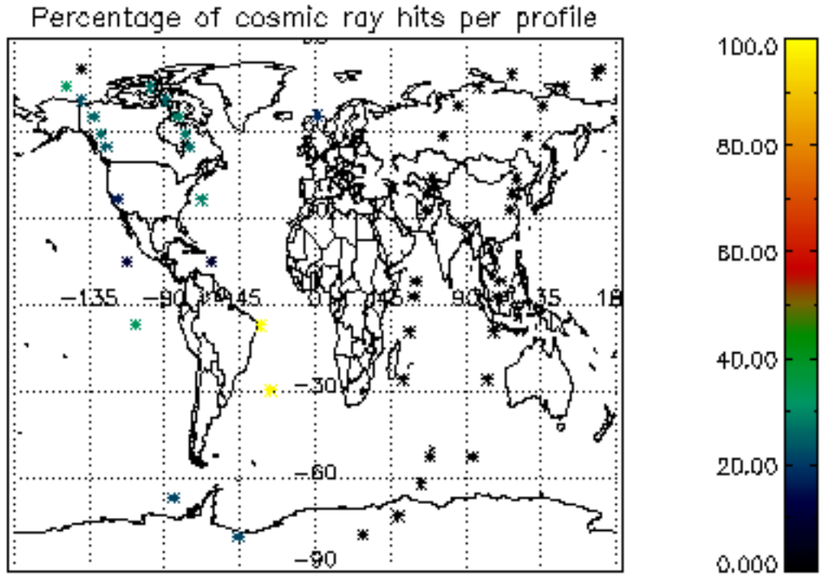

Spectrometer A CCD 2
Dark charge [e]
3800
3700
3600
3500
3400
3300
Upper
Middle
Lower
00:00.00 14/06/2008
01:00.00 14/06/2008
02:00.00 14/06/2008
03:00.00 14/06/2008
04:00.00 14/06/2008
05:00.00 14/06/2008
06:00.00 14/06/2008
Time

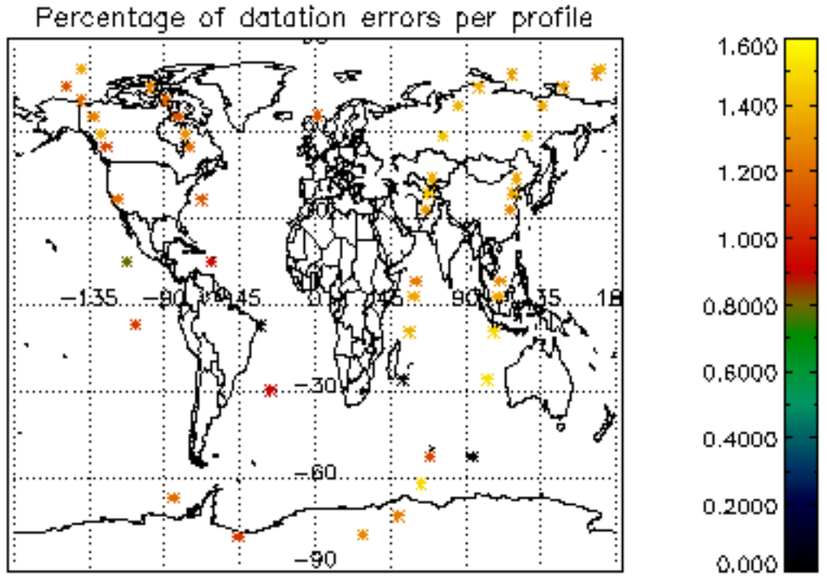

Spectrometer B CCD 1
Dark charge [e]
4800
4600
4400
4200
4000
3800
3600
3400
Upper
Middle
Lower
00:00.00 14/06/2008
01:00.00 14/06/2008
02:00.00 14/06/2008
03:00.00 14/06/2008
04:00.00 14/06/2008
05:00.00 14/06/2008
06:00.00 14/06/2008
Time

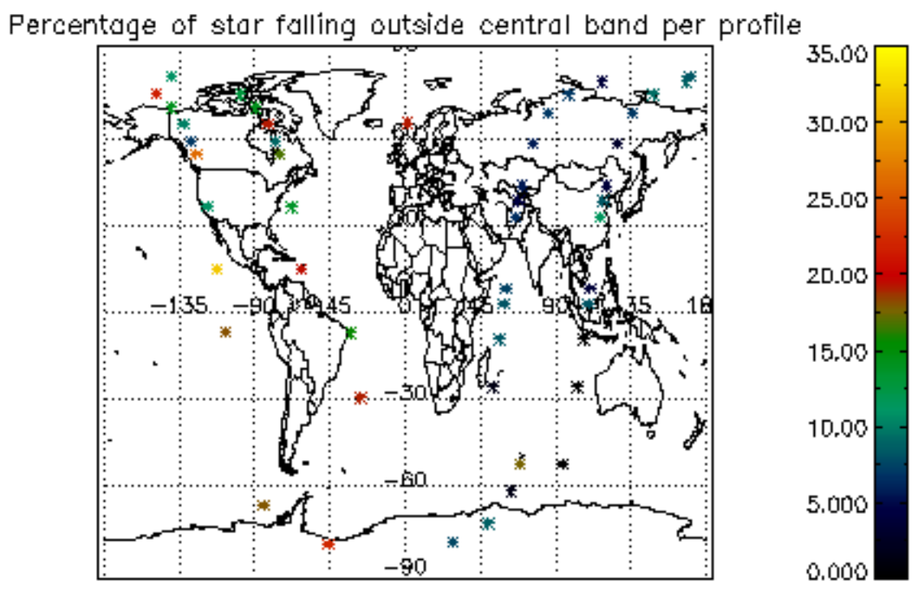

Spectrometer B CCD 2
Dark charge [e]
4400
4200
4000
3800
3600
3400
Upper
Middle
Lower
00:00.00 14/06/2008
01:00.00 14/06/2008
02:00.00 14/06/2008
03:00.00 14/06/2008
04:00.00 14/06/2008
05:00.00 14/06/2008
06:00.00 14/06/2008
Time

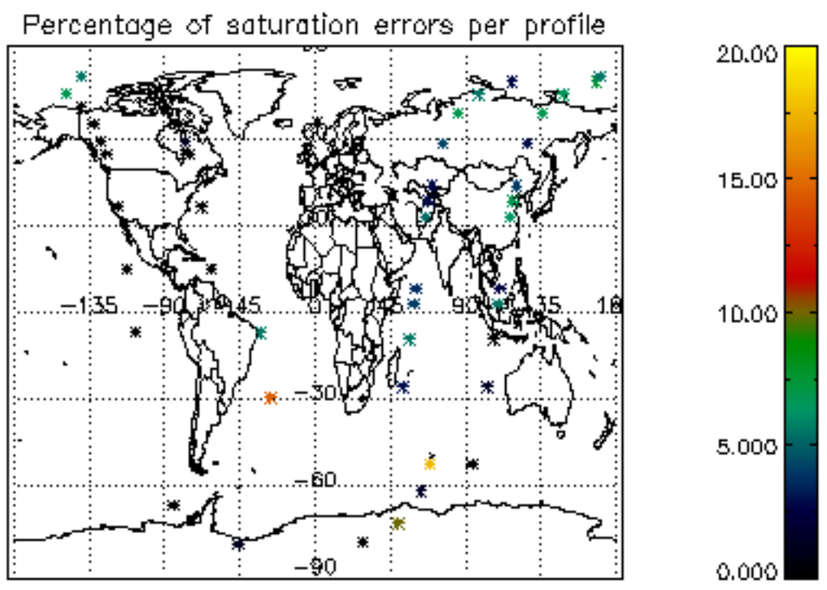

Photometers
Dark charge [e]
2600
2500
2400
2300
2200
2100
2000
FPA
FPB
00:00.00 14/06/2008
01:00.00 14/06/2008
02:00.00 14/06/2008
03:00.00 14/06/2008
04:00.00 14/06/2008
05:00.00 14/06/2008
06:00.00 14/06/2008
Time


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 14/06/2008
04:00.00 14/06/2008
08:00.00 14/06/2008
12:00.00 14/06/2008
16:00.00 14/06/2008
20:00.00 14/06/2008
00:00.00 15/06/2008
Time

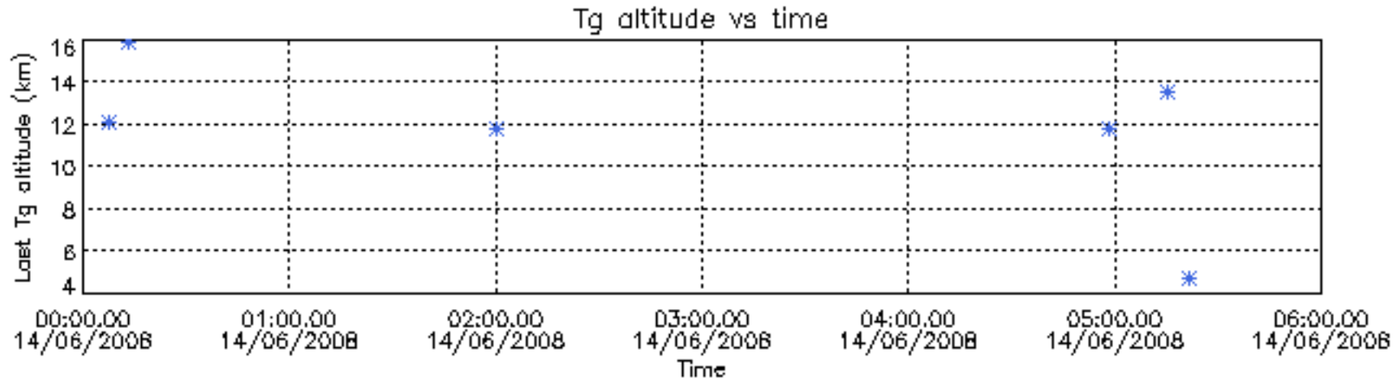

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−30
−60
−90

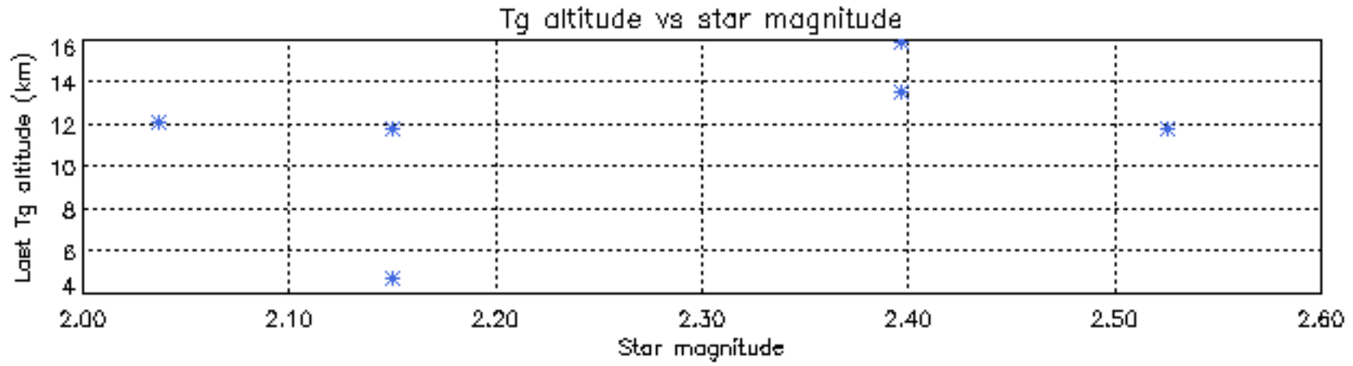

Percentage of datation errors per profile
1.600
1.400
1.200
1.000
0.8000
0.6000
0.4000
0.2000
0.000
−135
−90
−30
−60
−90

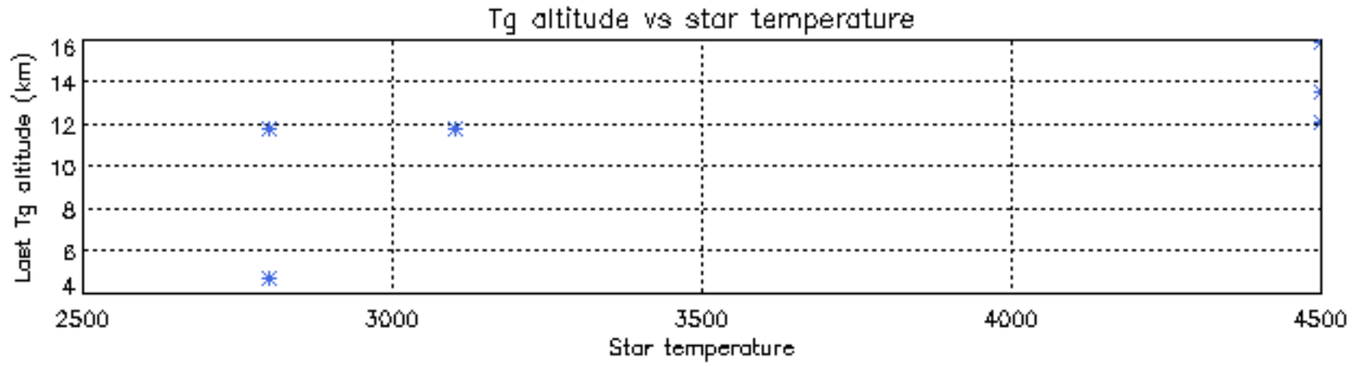

Percentage of star falling outside central band per profile
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90


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

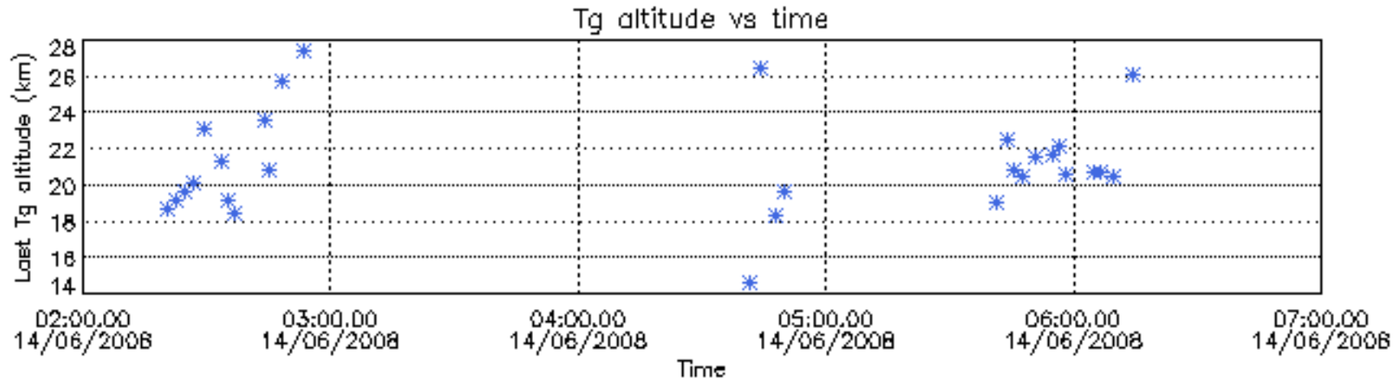
Tangent altitude at which the star is lost

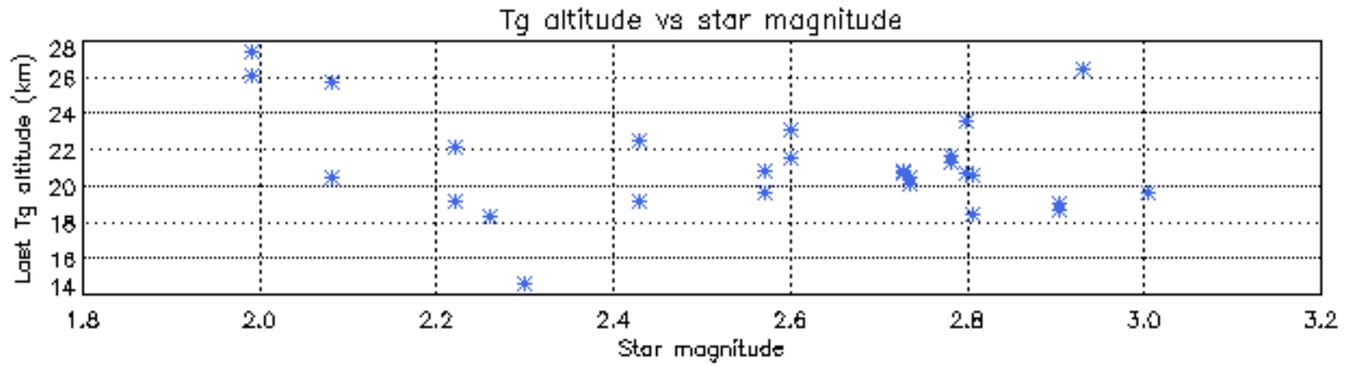


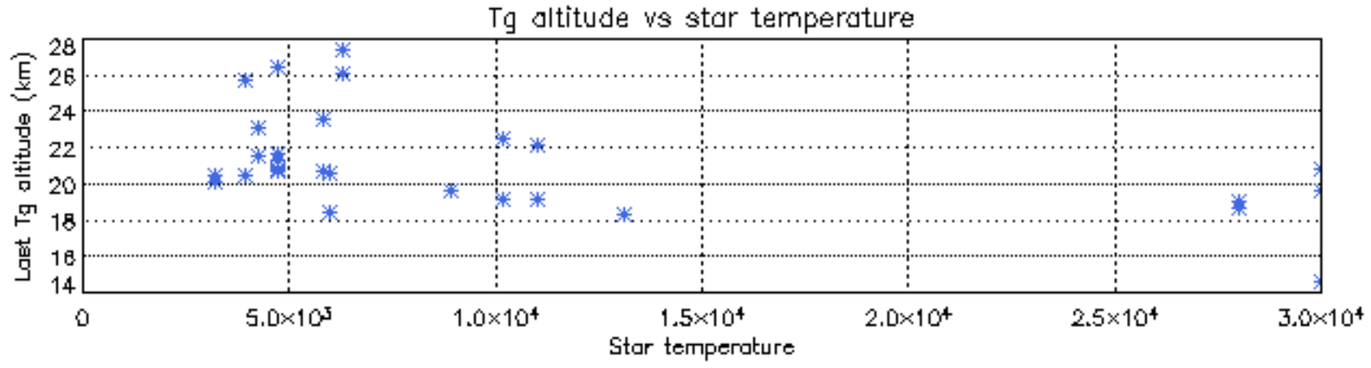




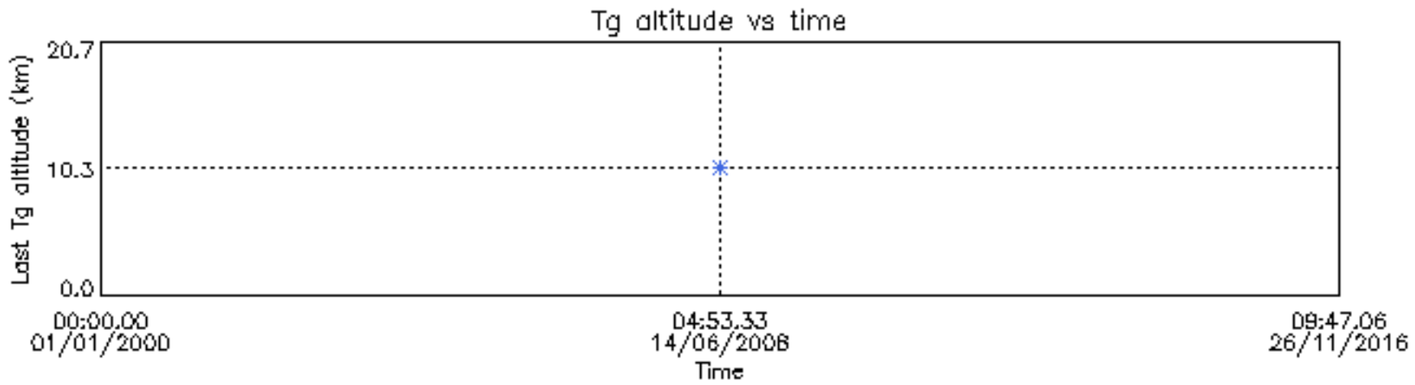
Tangent altitude at which the star is lost

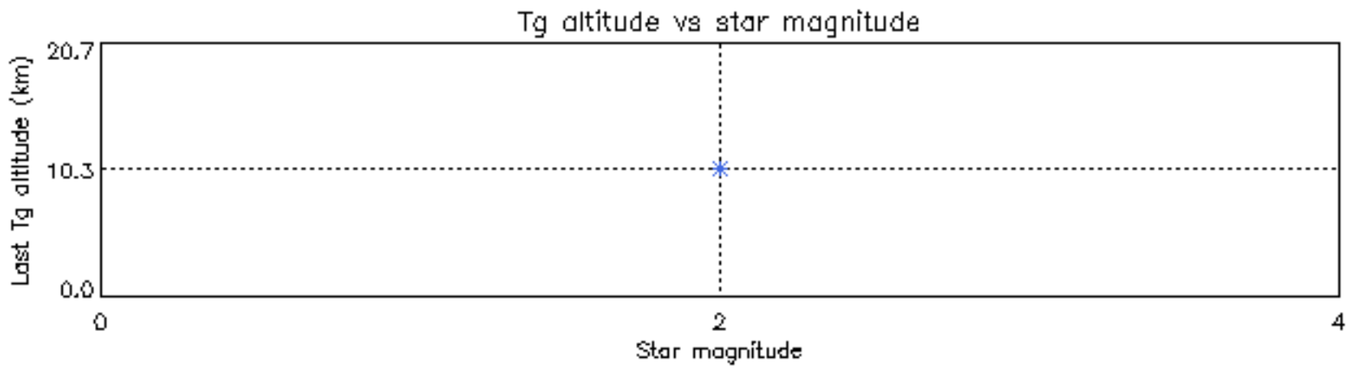


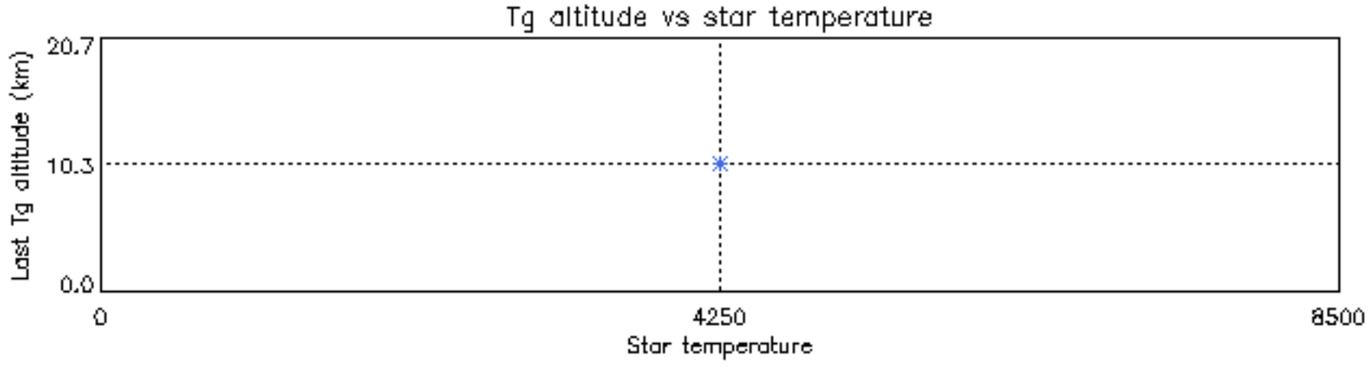


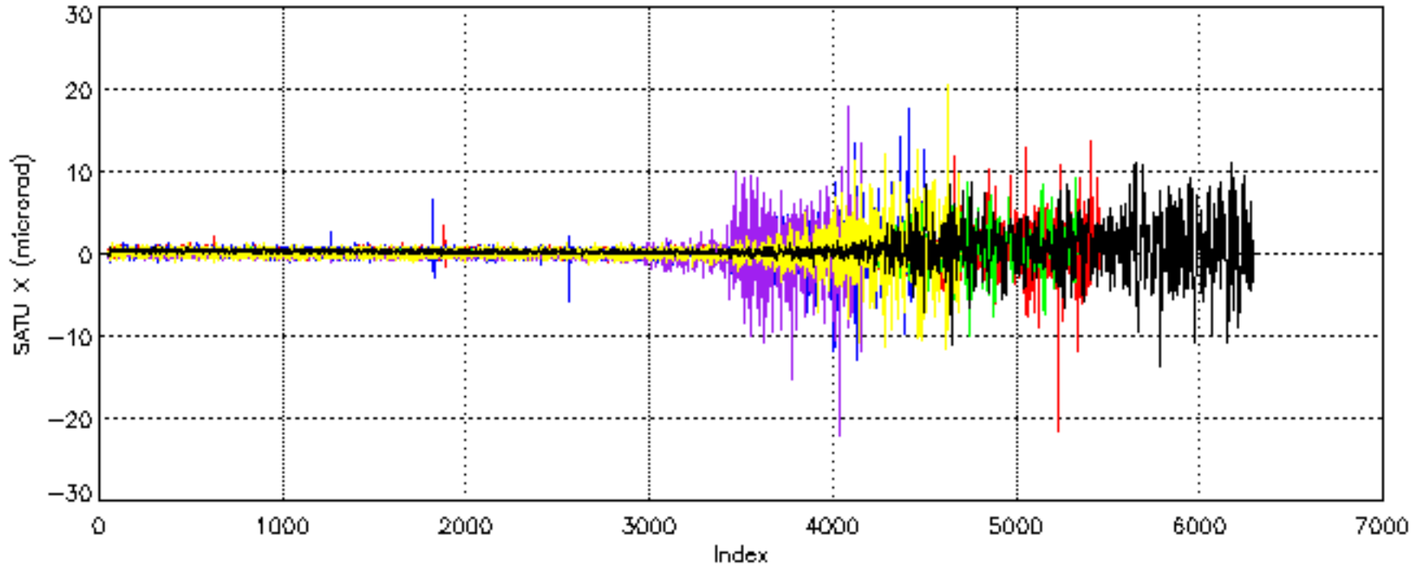


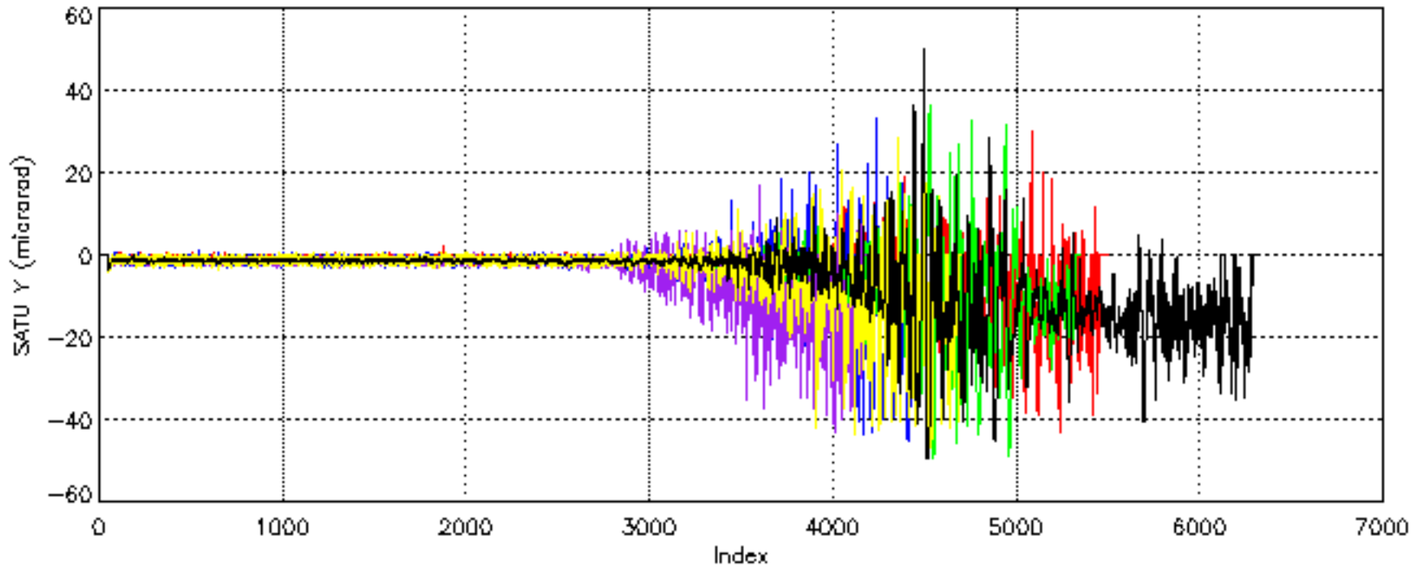
Tangent altitude at which the star is lost

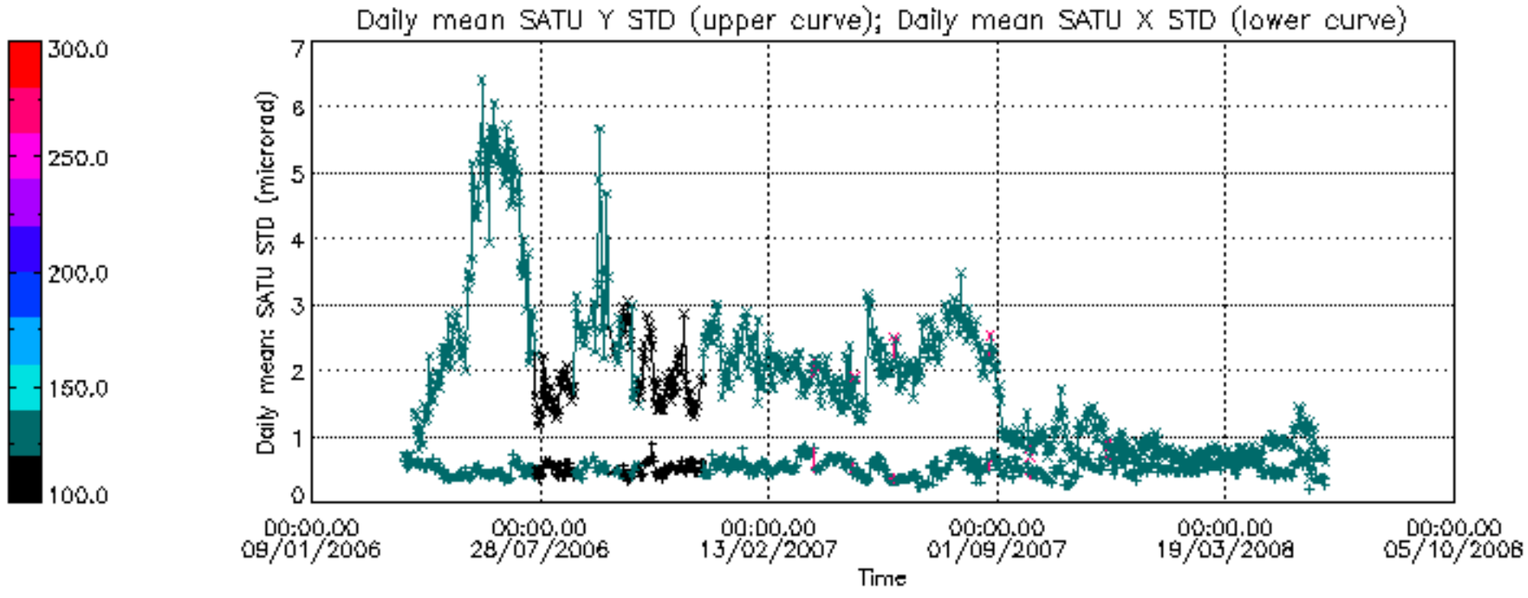


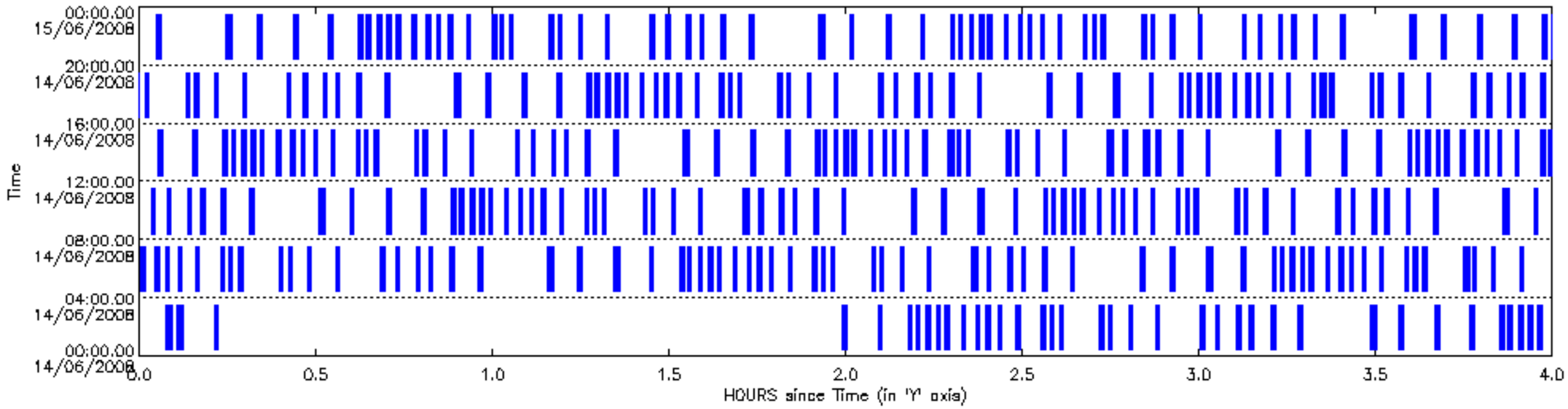





30
20
10
0
−10
−20
−30
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
7000
Index


60
40
20
0
−20
−40
−60
SATU Y (microrad)
0
1000
2000
3000
4000
5000
6000
7000
Index


Daily mean SATU Y STD (upper curve); Daily mean SATU X STD (lower curve)
300.0
250.0
200.0
150.0
100.0
Daily mean: SATU STD [microrad]
0
1
2
3
4
5
6
7
00:00.00 09/01/2006
00:00.00 28/07/2006
00:00.00 13/02/2007
00:00.00 01/09/2007
00:00.00 19/03/2008
00:00.00 05/10/2008
Time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20:00.00
14/06/2008
16:00.00
14/06/2008
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14/06/2008
08:00.00
14/06/2008
04:00.00
14/06/2008
00:00.00
14/06/2008
Time
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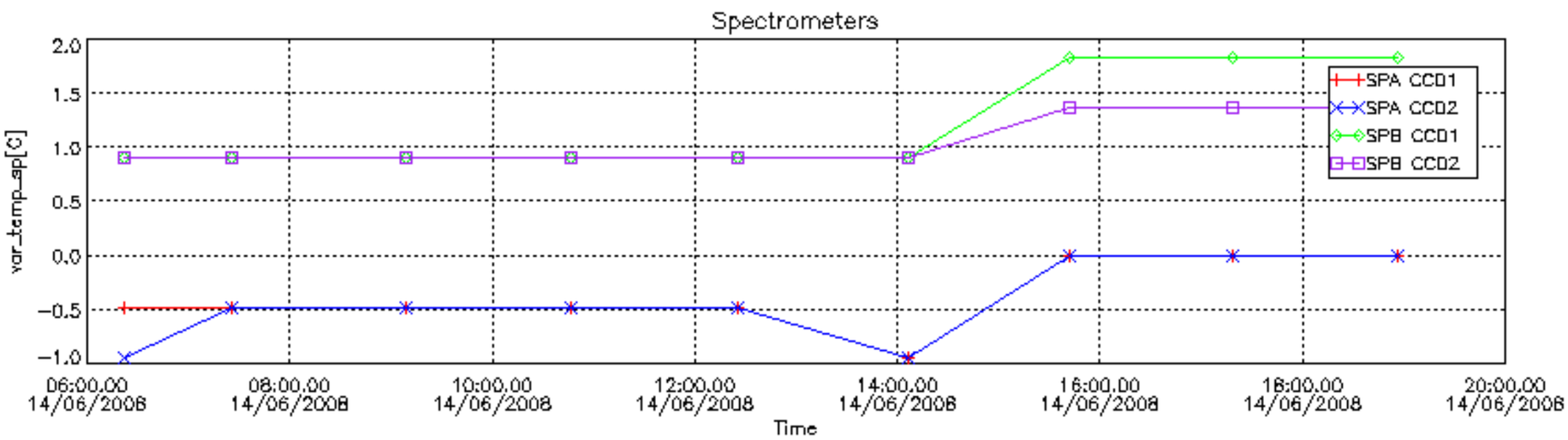
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)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1.0
0.5
0.0
−0.5
−1.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
06:00.00
14/06/2008
08:00.00
14/06/2008
10:00.00
14/06/2008
12:00.00
14/06/2008
14:00.00
14/06/2008
16:00.00
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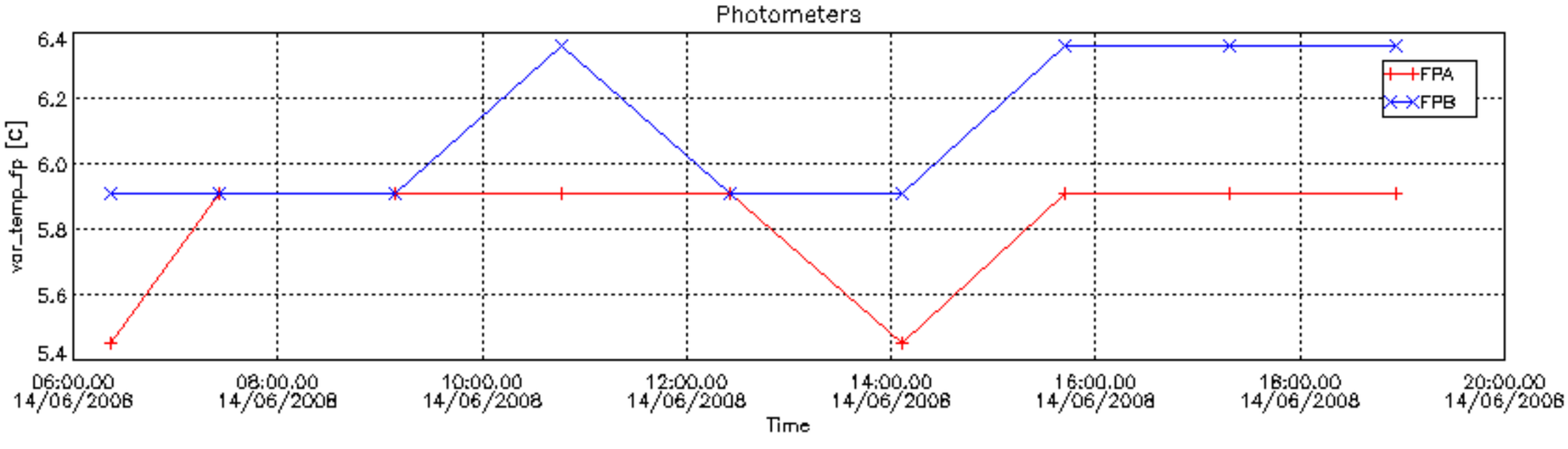
14/06/2008
20:00.00
14/06/2008
Time


Photometers
var_temp_fp [C]
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6.0
5.8
5.6
5.4
FPA
FPB
06:00.00
14/06/2008
08:00.00
14/06/2008
10:00.00
14/06/2008
12:00.00
14/06/2008
14:00.00
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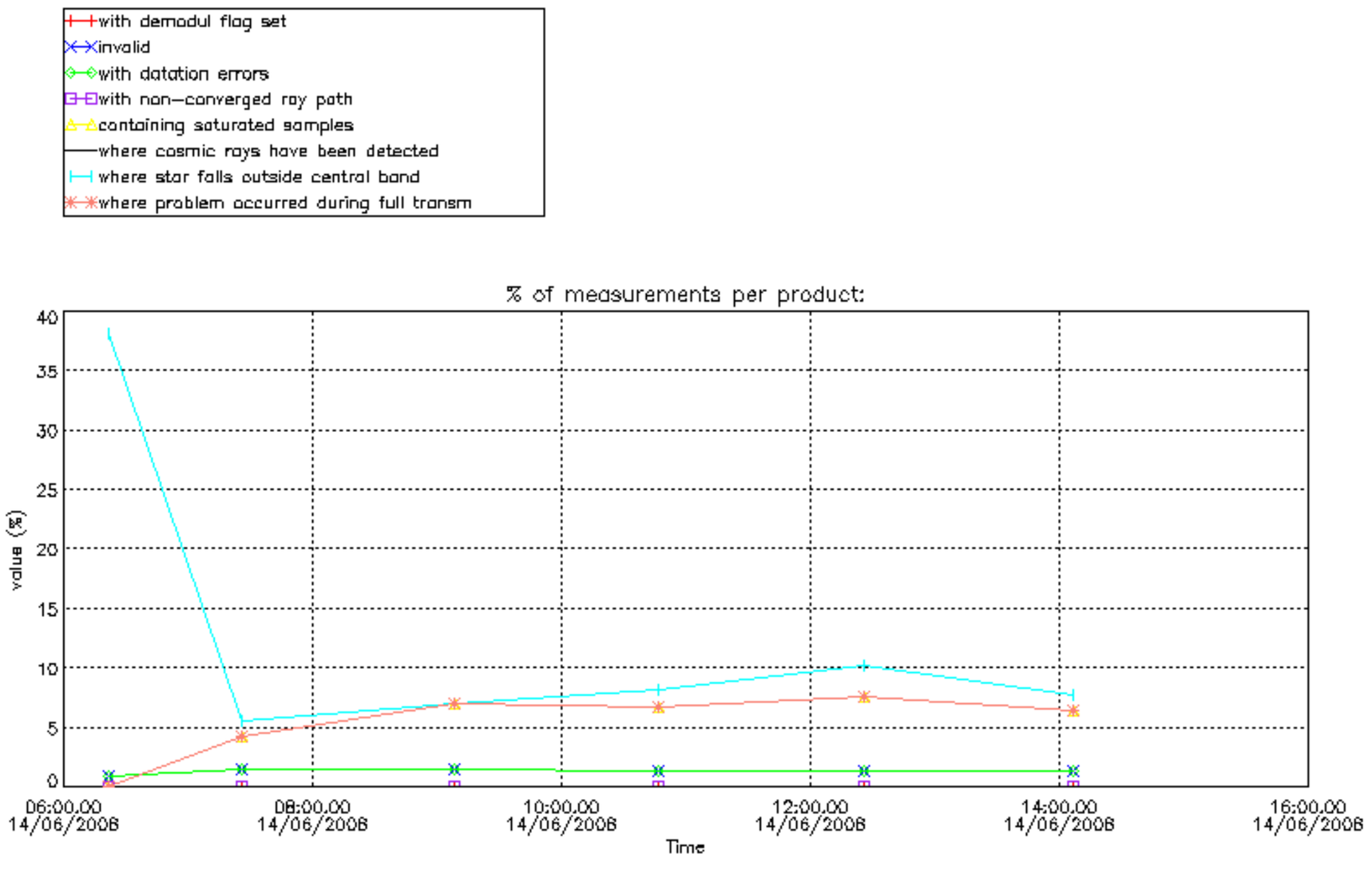
16:00.00
14/06/2008
18:00.00
14/06/2008
20:00.00
14/06/2008
Time


with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
value (%)
40
35
30
25
20
15
10
5
0
06:00.00 14/06/2006
08:00.00 14/06/2006
10:00.00 14/06/2006
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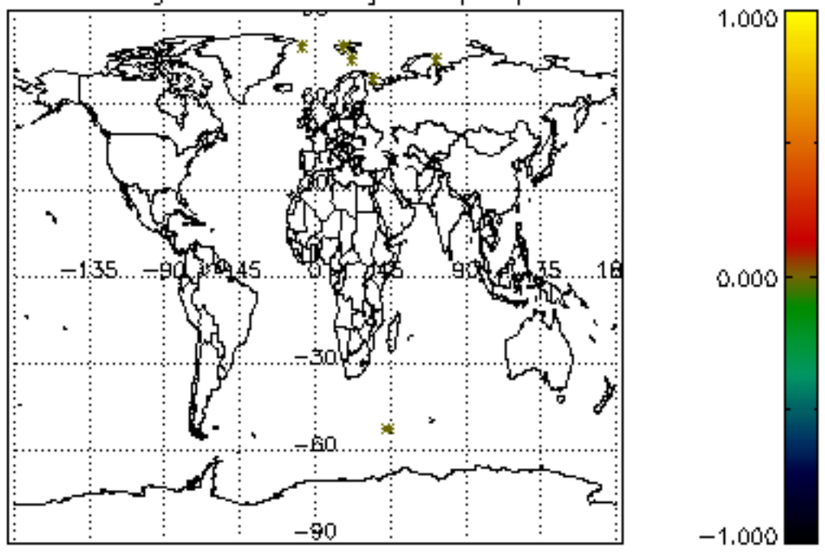
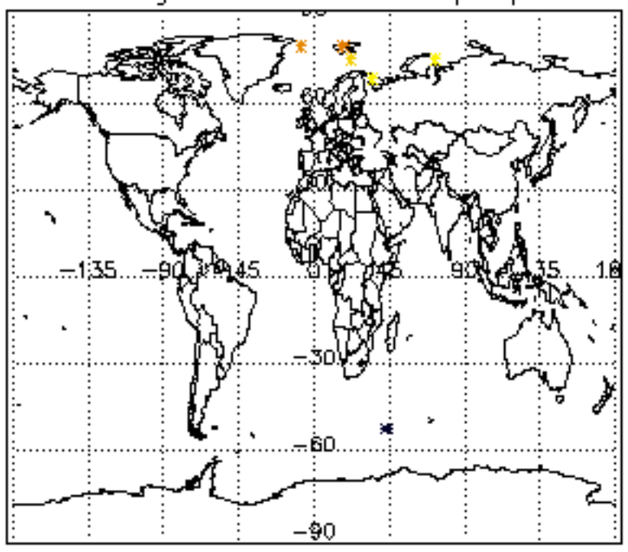
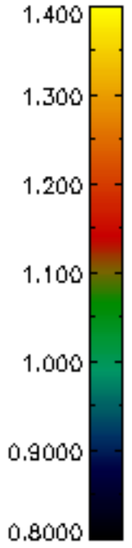
14:00.00 14/06/2006
16:00.00 14/06/2006
Time

Percentage of cosmic ray hits per profile

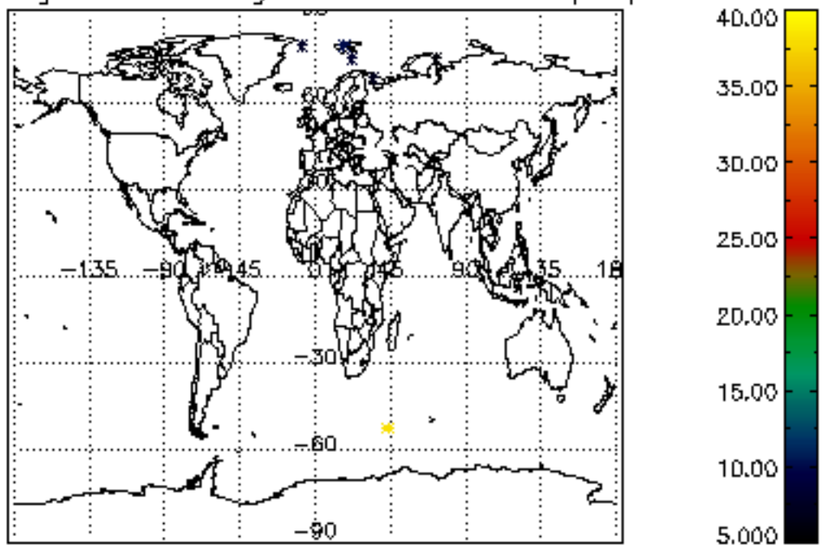


Percentage of datation errors per profile

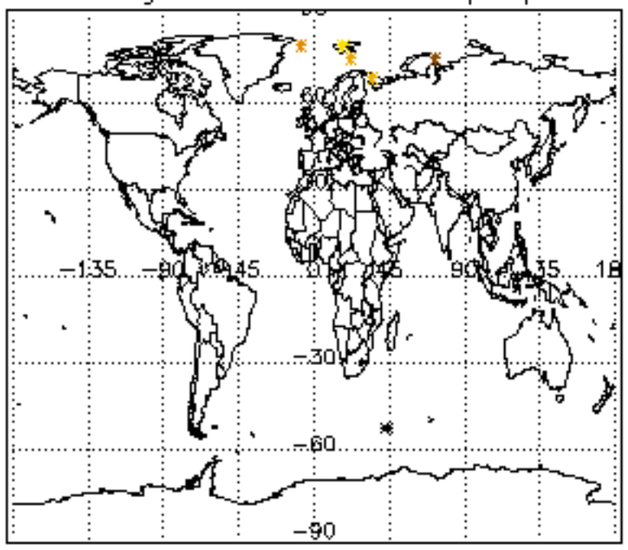


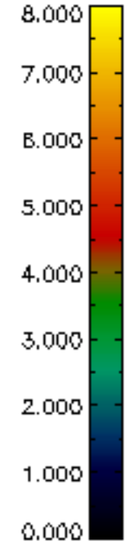


Percentage of star falling outside central band per profile

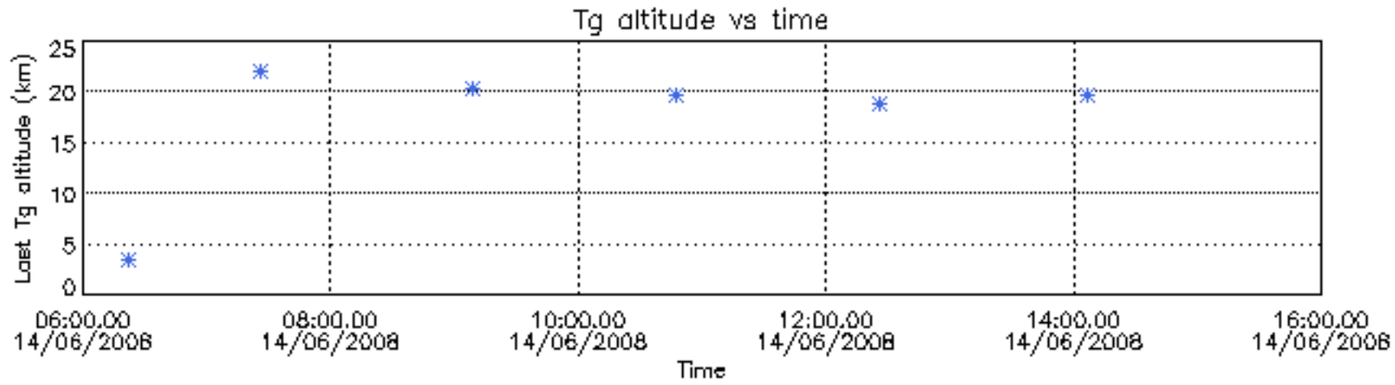


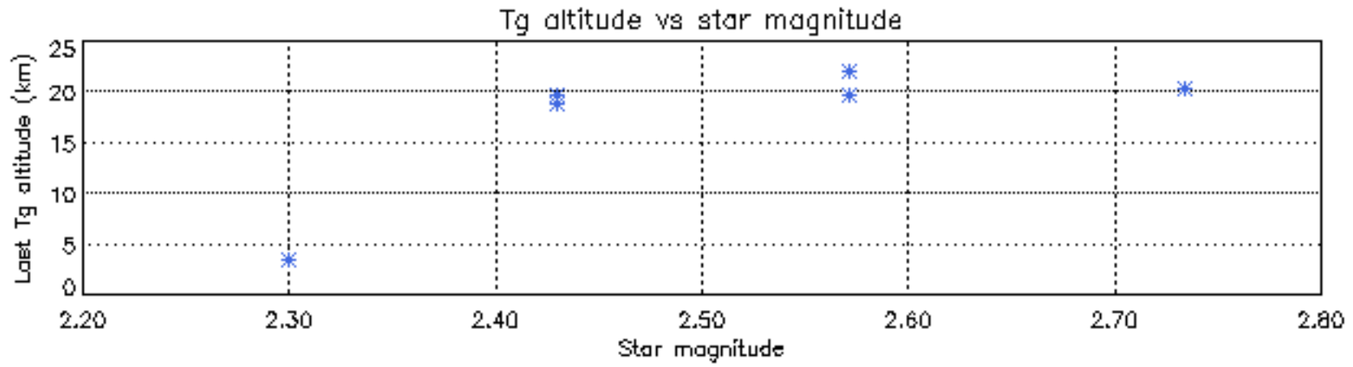
Percentage of saturation errors per profile

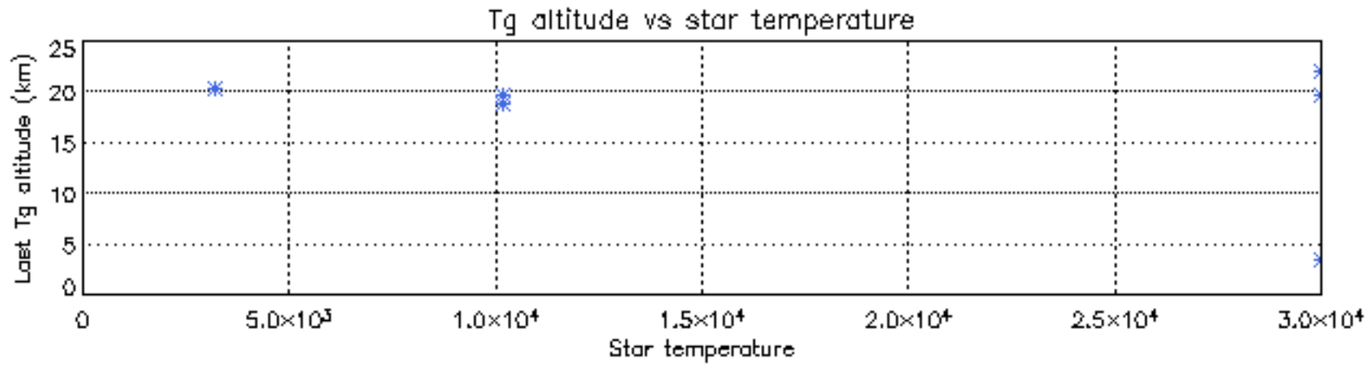


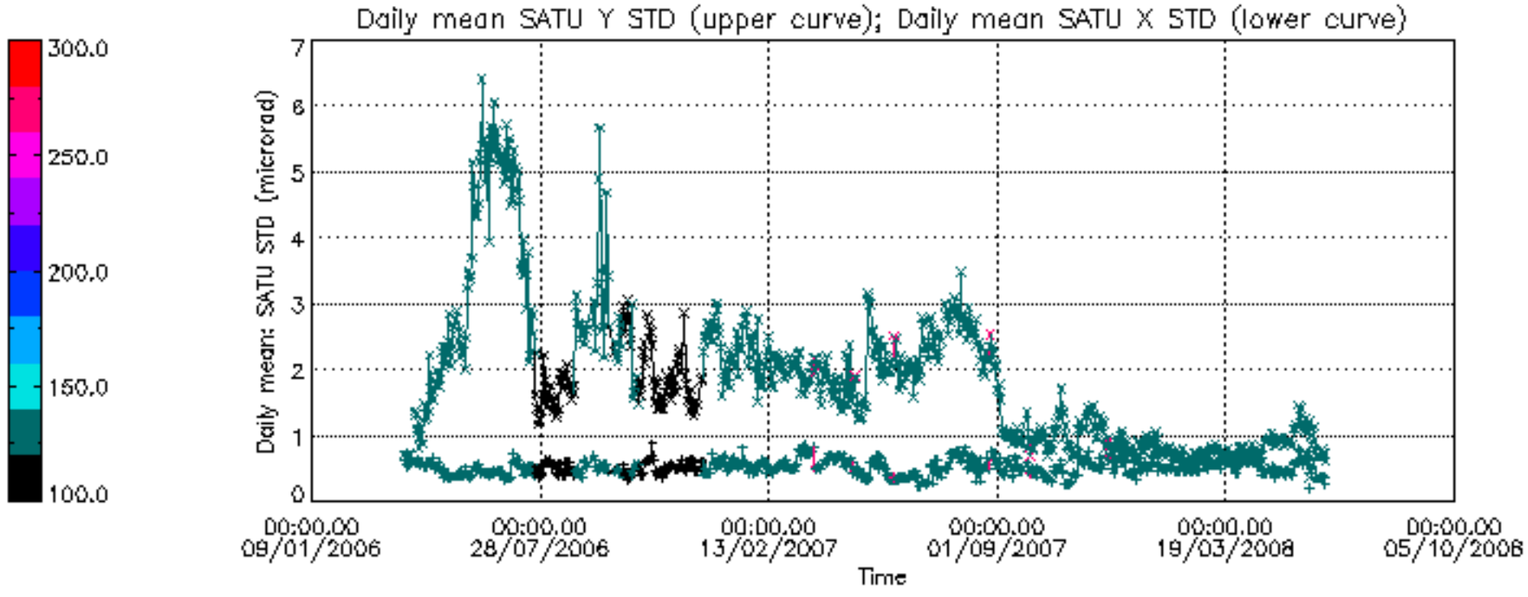


Tangent altitude at which the star is lost





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200.0
150.0
100.0
Daily mean: SATU STD [microrad]
0
1
2
3
4
5
6
7
00:00.00 09/01/2006
00:00.00 28/07/2006
00:00.00 13/02/2007
00:00.00 01/09/2007
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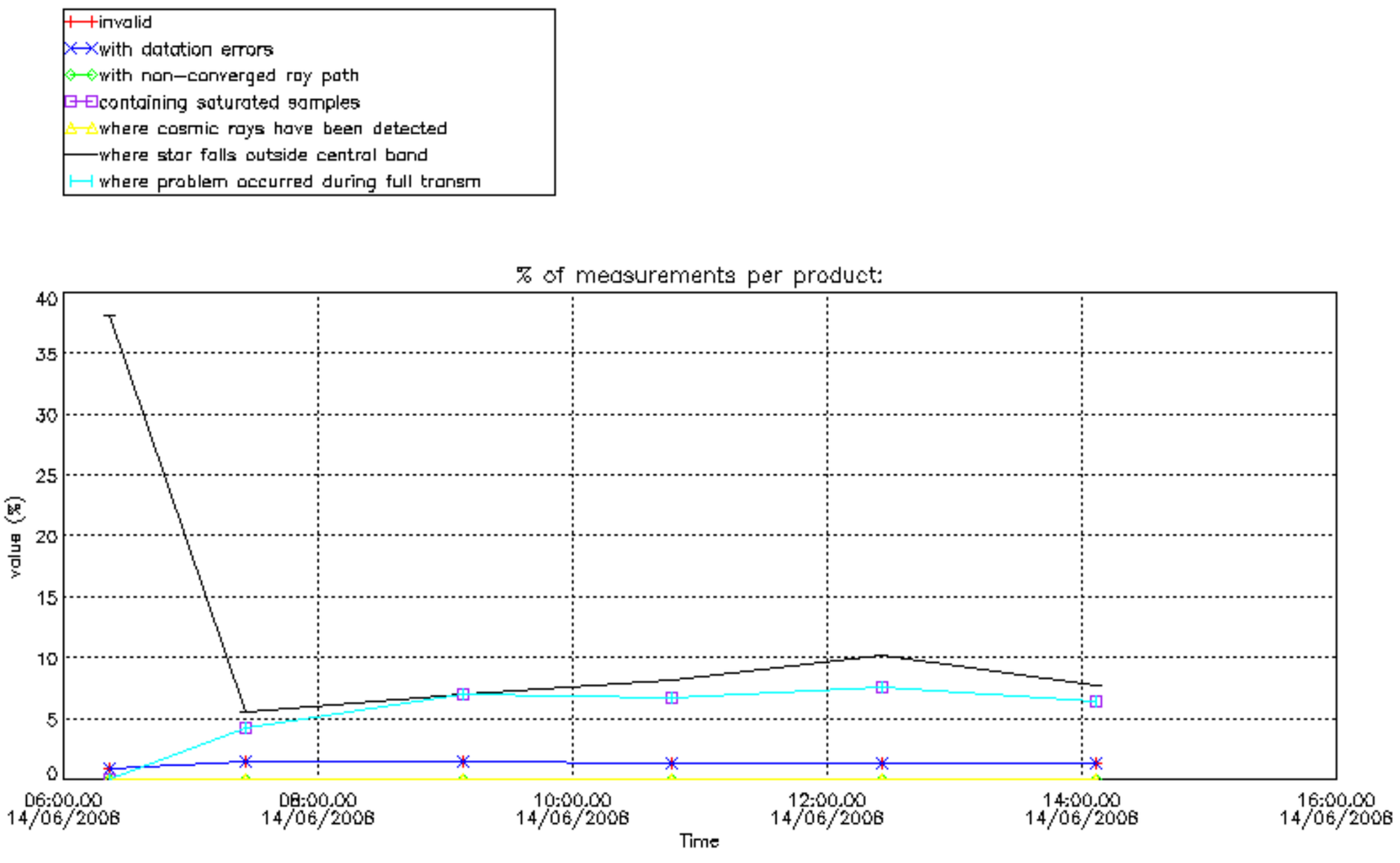
Time


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:
40
35
30
25
20
15
10
5
0
value (%)
06:00.00
14/06/2008
08:00.00
14/06/2008
10:00.00
14/06/2008
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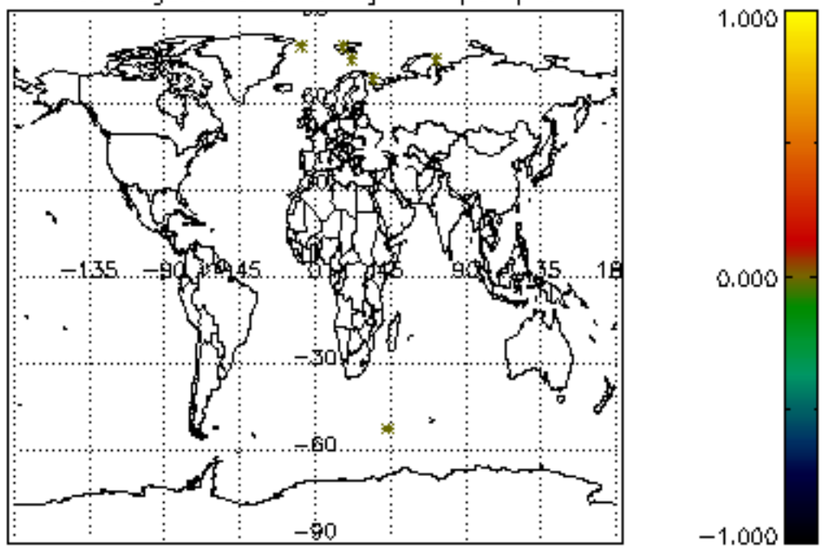
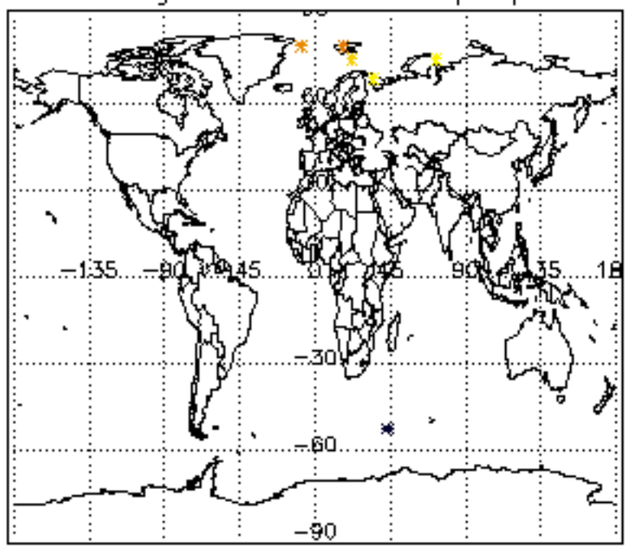
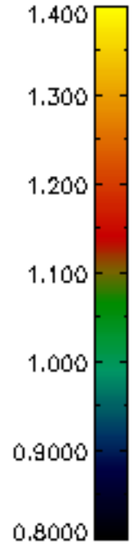
14/06/2008
16:00.00
14/06/2008
Time

Percentage of cosmic ray hits per profile

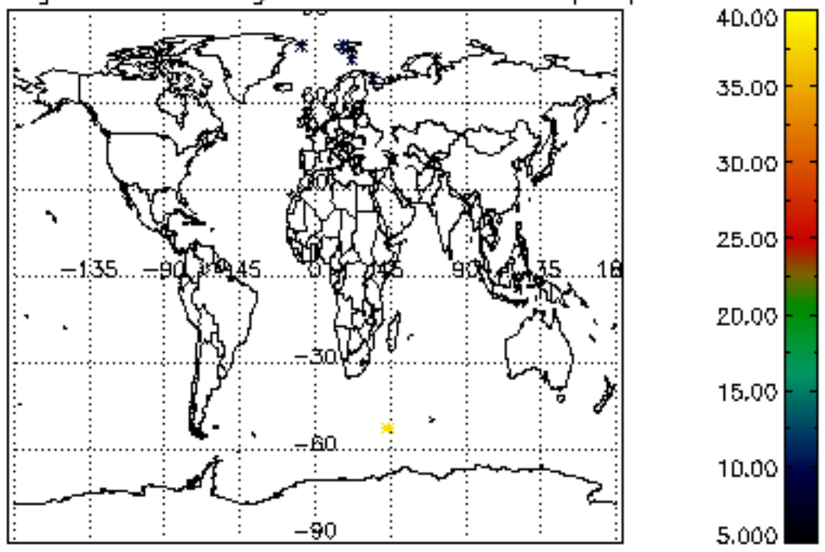


Percentage of datation errors per profile

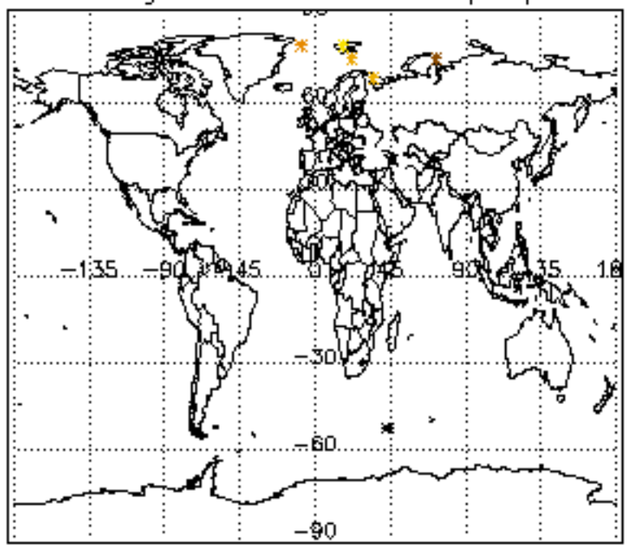


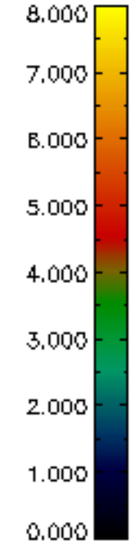


Percentage of star falling outside central band per profile



Percentage of saturation errors per profile





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   8; 3511.7; 13-JUN-2008 15:09:32; Bright; 46.0;   89; 5Alp Cep ; 2.45; 8000;occ; 92;   0;32873
   9; 3887.5; 13-JUN-2008 15:15:48; Bright; 63.0;   74; 11Bet Cas ; 2.27; 6600;occ; 126;   0;32873
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  21; 5197.8; 29-JUN-2008 20:36:34; Dark ; 41.0; 165; 34Gam Eri ; 2.95; 3200;occ; 82;   0;33105
  22; 5708.9; 29-JUN-2008 20:45:05; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;33105
  23; 6066.2; 29-JUN-2008 20:51:02; Dark ; 48.5;   9;   Alp Eri ; 0.45; 24000;occ; 97;   0;33105
  24; 6349.2; 29-JUN-2008 20:55:45; Dark ; 36.0; 135;   Bet Hyi ; 2.82; 5800;occ; 72;   0;33105
  25; 6512.4; 29-JUN-2008 20:58:29; Dark ; 41.0; 148;   Alp Tuc ; 2.88; 4100;occ; 82;   0;33105
  26; 6775.6; 29-JUN-2008 21:02:52; Dark ; 39.0;   45;   Alp Pav ; 1.94; 26000;occ; 78;   0;33105