GOMOS Daily Report 12-JUL-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.

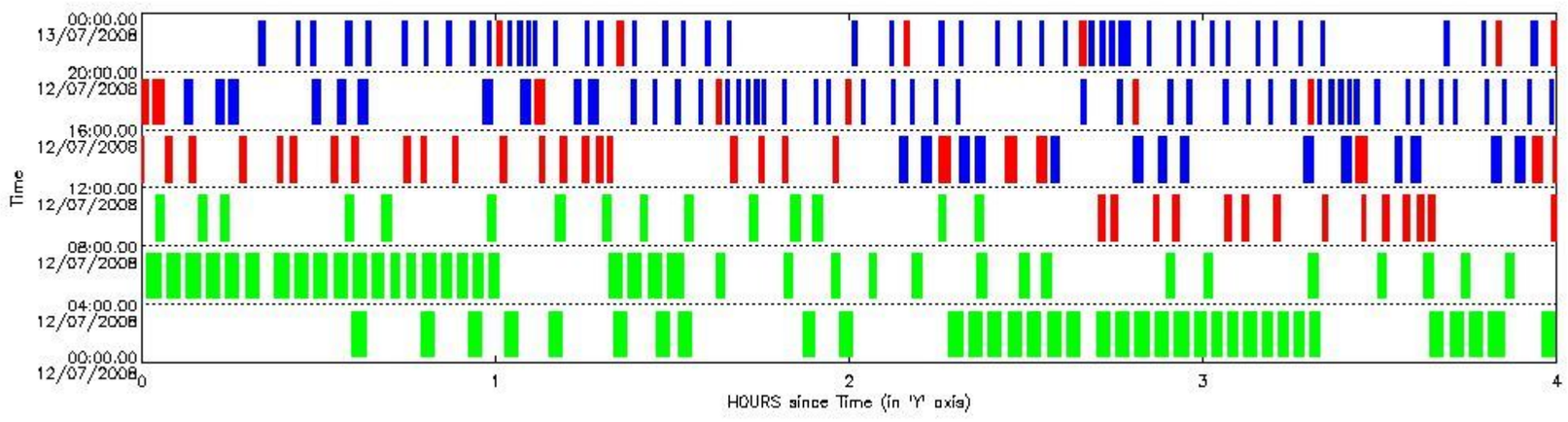
Item	Value
Time of report generation	14JUL2008 09:06:22
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (12JUL2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (13JUL2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	36
Nb of prods with errors	0

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

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

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

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



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

UTC start time	Star name	Star ID	Orbit
12-JUL-2008 10:42:14	DSA1033	0	33286
12-JUL-2008 10:44:28	DSA1020	0	33286
12-JUL-2008 10:51:30	DSA1022	0	33286
12-JUL-2008 10:54:53	DSA1024	0	33286
12-JUL-2008 11:03:42	DSA1043	0	33286
12-JUL-2008 11:06:36	DSA1041	0	33286
12-JUL-2008 11:11:57	DSA1075	0	33286
12-JUL-2008 11:20:08	DSA1078	0	33286
12-JUL-2008 11:26:54	DSA1108	0	33286
12-JUL-2008 11:30:24	DSA1109	0	33286
12-JUL-2008 11:33:58	DSA1107	0	33286
12-JUL-2008 11:36:23	DSA1114	0	33286
12-JUL-2008 11:38:11	DSA1115	0	33286
12-JUL-2008 11:59:11	DSA1095	0	33286
12-JUL-2008 12:03:54	DSA1060	0	33286

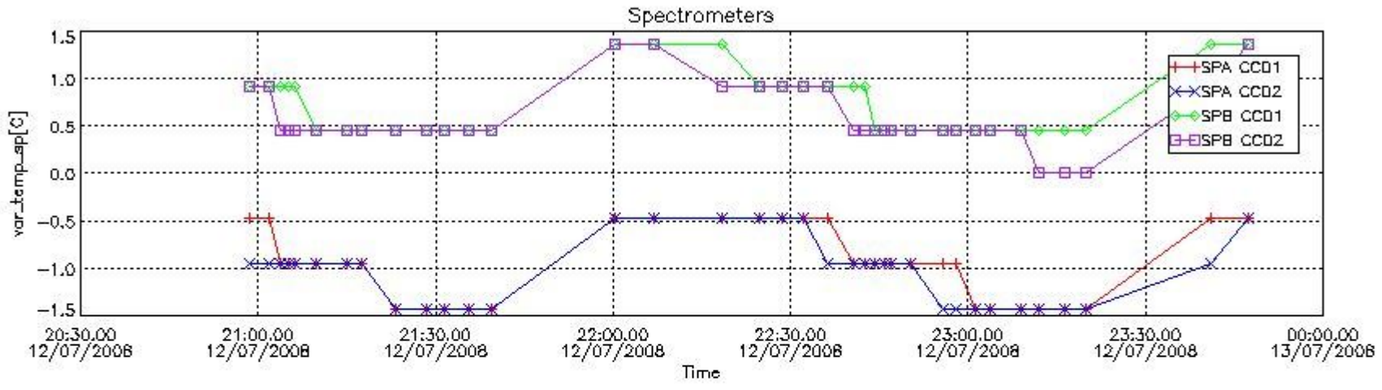
12-JUL-2008 12:07:56	DSA1062	0	33286
12-JUL-2008 12:16:32	DSA1032	0	33286
12-JUL-2008 12:22:50	DSA1033	0	33287
12-JUL-2008 12:25:04	DSA1020	0	33287
12-JUL-2008 12:32:07	DSA1022	0	33287
12-JUL-2008 12:35:29	DSA1024	0	33287
12-JUL-2008 12:44:18	DSA1043	0	33287
12-JUL-2008 12:47:12	DSA1041	0	33287
12-JUL-2008 12:52:33	DSA1075	0	33287
12-JUL-2008 13:00:44	DSA1078	0	33287
12-JUL-2008 13:07:29	DSA1108	0	33287
12-JUL-2008 13:11:00	DSA1109	0	33287
12-JUL-2008 13:14:35	DSA1107	0	33287
12-JUL-2008 13:16:59	DSA1114	0	33287
12-JUL-2008 13:18:47	DSA1115	0	33287
12-JUL-2008 13:39:48	DSA1095	0	33287
12-JUL-2008 13:44:30	DSA1060	0	33287
12-JUL-2008 13:48:32	DSA1062	0	33287
12-JUL-2008 13:57:08	DSA1032	0	33287
12-JUL-2008 14:15:16	BetAra	141	33288
12-JUL-2008 14:26:29	35EtaOph	86	33288
12-JUL-2008 14:31:48	60BetOph	126	33288
12-JUL-2008 15:25:59	11AlpLep	101	33288
12-JUL-2008 15:55:52	BetAra	141	33289
12-JUL-2008 15:59:15	TheSco	40	33289
12-JUL-2008 16:01:50	38ZetSgr	103	33289
12-JUL-2008 17:06:35	11AlpLep	101	33289
12-JUL-2008 17:37:19	BetAra	141	33290
12-JUL-2008 17:59:23	27BetHer	127	33290
12-JUL-2008 18:48:01	11AlpLep	101	33290
12-JUL-2008 19:17:55	BetAra	141	33291
12-JUL-2008 21:00:03	AlpAra	147	33292
12-JUL-2008 21:20:36	27BetHer	127	33292
12-JUL-2008 22:09:13	11AlpLep	101	33292
12-JUL-2008 22:39:07	BetAra	141	33293
12-JUL-2008 23:49:49	11AlpLep	101	33293
12-JUL-2008 23:59:06	The1Eri	157	33293

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_1PNPDE20080712_205834_000000392070_00172_33292_2543.N1	12-JUL-2008 20:58:34	Straylight	38.500	141	Bet Ara	2.8400	4600.0	77	33292	No
2	GOM_TRA_1PNPDE20080712_210158_000000422070_00172_33292_2544.N1	12-JUL-2008 21:01:58	Twi_and_stray	42.000	40	The Sco	1.8590	7100.0	84	33292	No
3	GOM_TRA_1PNPDE20080712_210338_000000432070_00172_33292_2545.N1	12-JUL-2008 21:03:38	Bright	43.000	25	35Lam Sco	1.6200	28000.	86	33292	No
4	GOM_TRA_1PNPDE20080712_210508_000000412070_00172_33292_2546.N1	12-JUL-2008 21:05:08	Bright	40.500	116	19Del Sgr	2.7000	4100.0	81	33292	No
5	GOM_TRA_1PNPDE20080712_210617_000000392070_00172_33292_2547.N1	12-JUL-2008 21:06:17	Bright	38.500	137	22Lam Sgr	2.8240	4400.0	77	33292	No
6	GOM_TRA_1PNPDE20080712_210948_000000372070_00172_33292_2548.N1	12-JUL-2008 21:09:48	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	33292	No
7	GOM_TRA_1PNPDE20080712_211506_000000362070_00172_33292_2549.N1	12-JUL-2008 21:15:06	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	33292	No
8	GOM_TRA_1PNPDE20080712_211723_000000372070_00172_33292_2550.N1	12-JUL-2008 21:17:23	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	33292	No
9	GOM_TRA_1PNPDE20080712_212311_000000352070_00172_33292_2551.N1	12-JUL-2008 21:23:11	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	33292	No
10	GOM_TRA_1PNPDE20080712_212821_000000402070_00172_33292_2552.N1	12-JUL-2008 21:28:21	Bright	39.500	69	33Gam Dra	2.2310	3800.0	79	33292	No
11	GOM_TRA_1PNPDE20080712_213125_000000372070_00172_33292_2553.N1	12-JUL-2008 21:31:25	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	33292	No
12	GOM_TRA_1PNPDE20080712_213537_000000372070_00172_33292_2554.N1	12-JUL-2008 21:35:37	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	33292	No
13	GOM_TRA_1PNPDE20080712_213920_000000362070_00172_33292_2555.N1	12-JUL-2008 21:39:20	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	33292	No
14	GOM_TRA_1PNPDE20080712_220025_000000482070_00172_33292_2556.N1	12-JUL-2008 22:00:25	Twilight	47.500	13	87Alp Tau	0.86700	3800.0	95	33292	No
15	GOM_TRA_1PNPDE20080712_220646_000000352070_00172_33292_2557.N1	12-JUL-2008 22:06:46	Dark	35.000	7	19Bet Ori	0.10000	14000.	70	33292	No
16	GOM_TRA_1PNPDE20080712_221833_000000412070_00172_33292_2688.N1	12-JUL-2008 22:18:33	Dark	40.500	157	The1Eri	2.9060	9300.0	81	33292	No
17	GOM_TRA_1PNPDE20080712_222443_000000462070_00173_33293_2689.N1	12-JUL-2008 22:24:43	Dark	45.500	9	Alp Eri	0.45300	24000.	91	33293	No

18	GOM_TRA_1PNPDE20080712_222829_000000382070_00173_33293_2690.N1	12-JUL-2008 22:28:29	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	33293	No
19	GOM_TRA_1PNPDE20080712_223216_000000392070_00173_33293_2691.N1	12-JUL-2008 22:32:16	Straylight	39.000	148	Alp Tuc	2.8780	4100.0	78	33293	No
20	GOM_TRA_1PNPDE20080712_223615_000000402070_00173_33293_2692.N1	12-JUL-2008 22:36:15	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	33293	No
21	GOM_TRA_1PNPDE20080712_224042_000000402070_00173_33293_2693.N1	12-JUL-2008 22:40:42	Twi_and_stray	39.500	147	Alp Ara	2.8770	26000.	79	33293	No
22	GOM_TRA_1PNPDE20080712_224234_000000402070_00173_33293_2694.N1	12-JUL-2008 22:42:34	Twi_and_stray	40.000	40	The Sco	1.8590	7100.0	80	33293	No
23	GOM_TRA_1PNPDE20080712_224414_000000402070_00173_33293_2695.N1	12-JUL-2008 22:44:14	Bright	39.500	25	35Lam Sco	1.6200	28000.	79	33293	No
24	GOM_TRA_1PNPDE20080712_224544_000000412070_00173_33293_2696.N1	12-JUL-2008 22:45:44	Bright	40.500	116	19Del Sgr	2.7000	4100.0	81	33293	No
25	GOM_TRA_1PNPDE20080712_224654_000000402070_00173_33293_2697.N1	12-JUL-2008 22:46:54	Bright	39.500	137	22Lam Sgr	2.8240	4400.0	79	33293	No
26	GOM_TRA_1PNPDE20080712_225024_000000372070_00173_33293_2698.N1	12-JUL-2008 22:50:24	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	33293	No
27	GOM_TRA_1PNPDE20080712_225542_000000352070_00173_33293_2699.N1	12-JUL-2008 22:55:42	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	33293	No
28	GOM_TRA_1PNPDE20080712_225759_000000362070_00173_33293_2700.N1	12-JUL-2008 22:57:59	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	33293	No
29	GOM_TRA_1PNPDE20080712_230115_000000372070_00173_33293_2701.N1	12-JUL-2008 23:01:15	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	33293	No
30	GOM_TRA_1PNPDE20080712_230347_000000352070_00173_33293_2702.N1	12-JUL-2008 23:03:47	Bright	34.500	133	40Zet Her	2.8070	6000.0	69	33293	No
31	GOM_TRA_1PNPDE20080712_230857_000000362070_00173_33293_2703.N1	12-JUL-2008 23:08:57	Bright	35.500	69	33Gam Dra	2.2310	3800.0	71	33293	No
32	GOM_TRA_1PNPDE20080712_231201_000000372070_00173_33293_2704.N1	12-JUL-2008 23:12:01	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	33293	No
33	GOM_TRA_1PNPDE20080712_231613_000000362070_00173_33293_2705.N1	12-JUL-2008 23:16:13	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	33293	No
34	GOM_TRA_1PNPDE20080712_231955_000000372070_00173_33293_2706.N1	12-JUL-2008 23:19:55	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	33293	No
35	GOM_TRA_1PNPDE20080712_234101_000000402070_00173_33293_2707.N1	12-JUL-2008 23:41:01	Twilight	39.500	13	87Alp Tau	0.86700	3800.0	79	33293	No
36	GOM_TRA_1PNPDE20080712_234722_000000362070_00173_33293_2708.N1	12-JUL-2008 23:47:22	Dark	36.000	7	19Bet Ori	0.10000	14000.	72	33293	No

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



4. Overview of dark signal processing per product

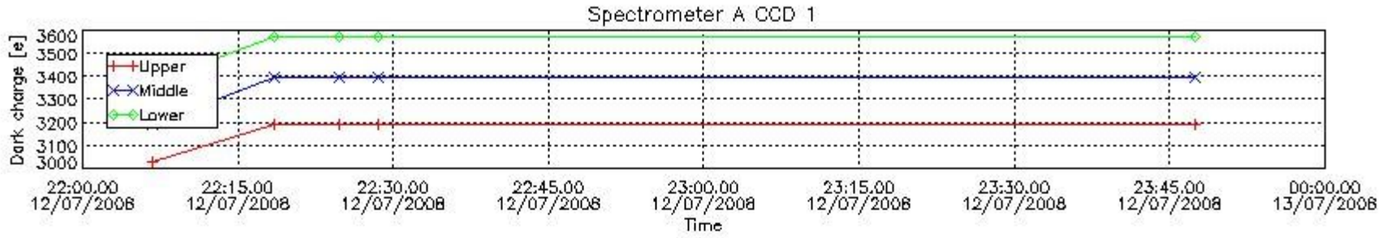
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted

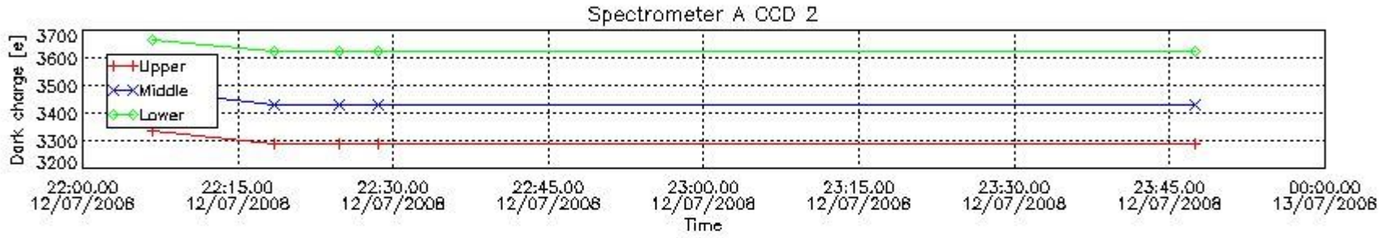
from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative 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.

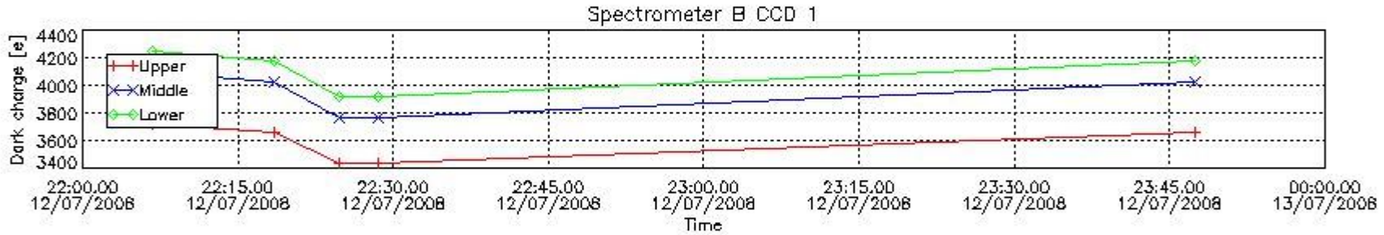
4.1 These products did not use the DSA observation for DC computation:

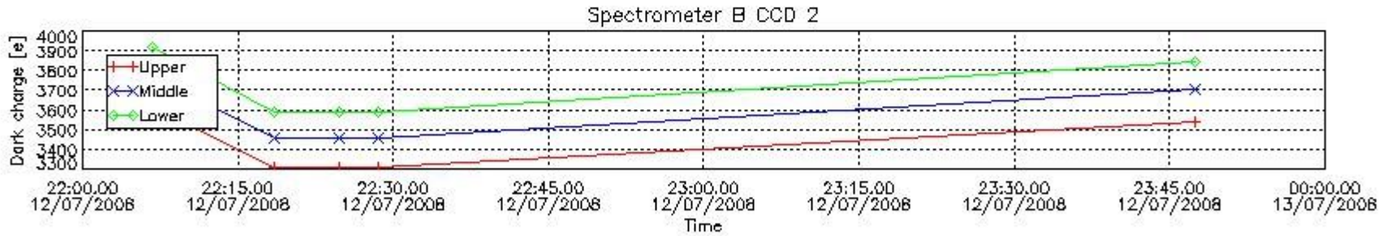
Product name	DC information
GOM_TRA_1PNPDE20080712_205834_000000392070_00172_33292_2543.N1	DC map used
GOM_TRA_1PNPDE20080712_210158_000000422070_00172_33292_2544.N1	DC map used
GOM_TRA_1PNPDE20080712_210338_000000432070_00172_33292_2545.N1	DC map used
GOM_TRA_1PNPDE20080712_210508_000000412070_00172_33292_2546.N1	DC map used
GOM_TRA_1PNPDE20080712_210617_000000392070_00172_33292_2547.N1	DC map used
GOM_TRA_1PNPDE20080712_210948_000000372070_00172_33292_2548.N1	DC map used
GOM_TRA_1PNPDE20080712_211506_000000362070_00172_33292_2549.N1	DC map used
GOM_TRA_1PNPDE20080712_211723_000000372070_00172_33292_2550.N1	DC map used
GOM_TRA_1PNPDE20080712_212311_000000352070_00172_33292_2551.N1	DC map used
GOM_TRA_1PNPDE20080712_212821_000000402070_00172_33292_2552.N1	DC map used
GOM_TRA_1PNPDE20080712_213125_000000372070_00172_33292_2553.N1	DC map used
GOM_TRA_1PNPDE20080712_213537_000000372070_00172_33292_2554.N1	DC map used
GOM_TRA_1PNPDE20080712_213920_000000362070_00172_33292_2555.N1	DC map used
GOM_TRA_1PNPDE20080712_220025_000000482070_00172_33292_2556.N1	DC map used
GOM_TRA_1PNPDE20080712_220646_000000352070_00172_33292_2557.N1	DC map used

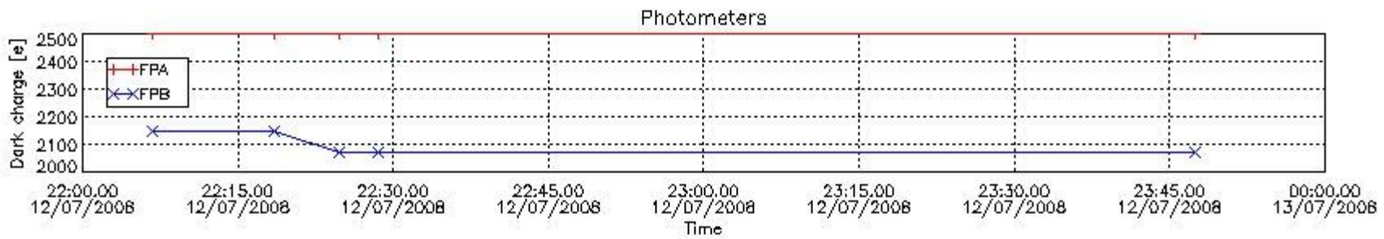
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











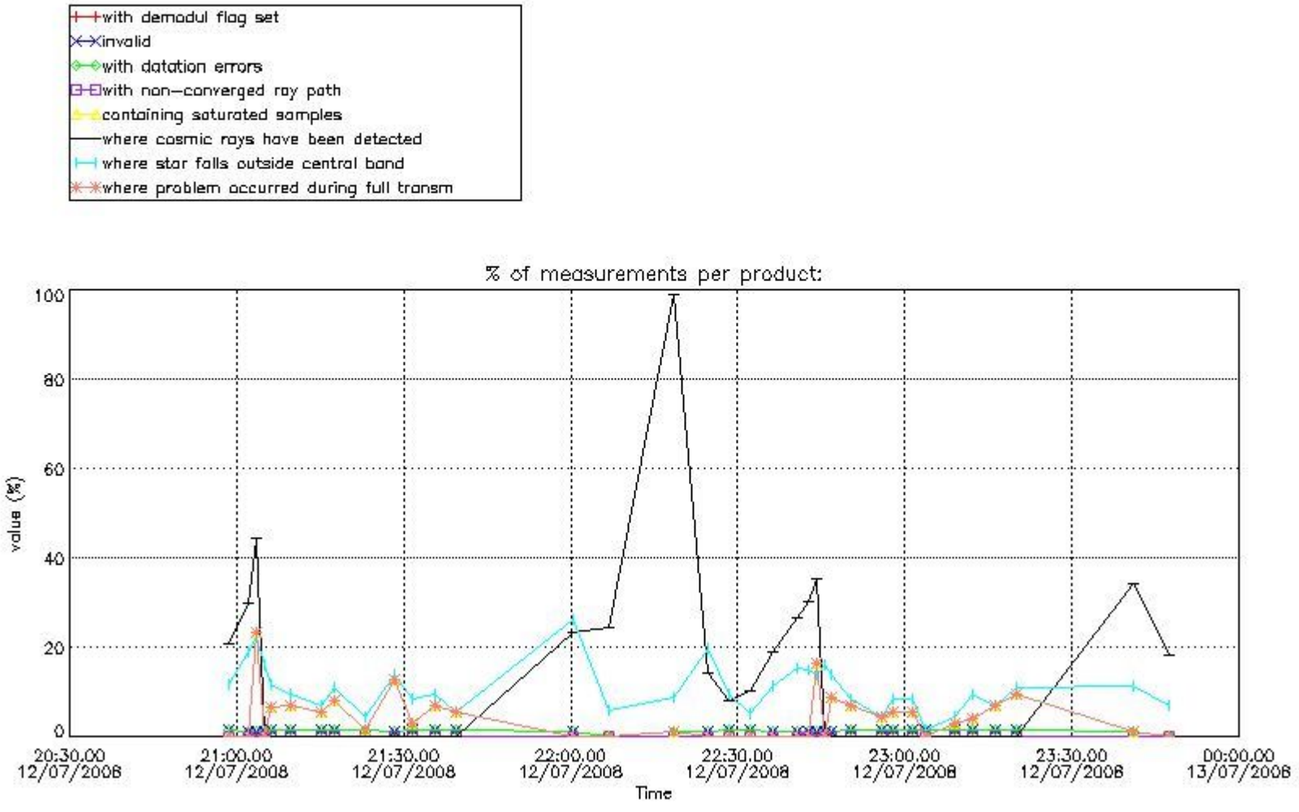
5. Demodulation flag and quality information monitoring

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:

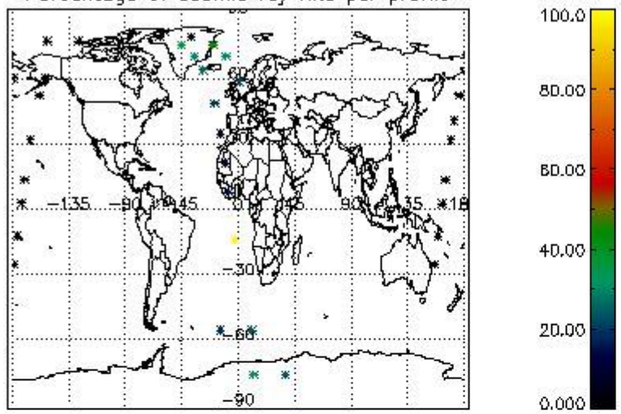
At least one measurement with demodulation flag set:	16.6667 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

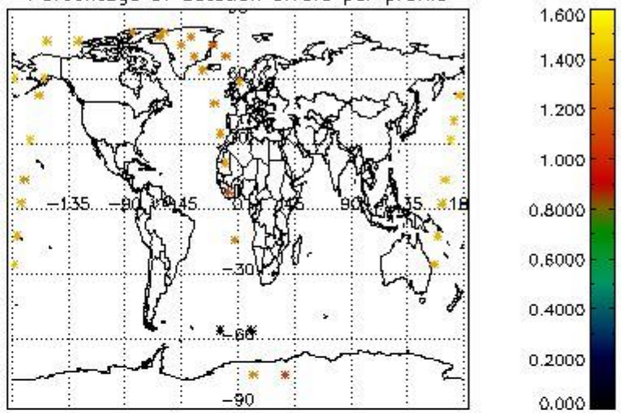


5.3 Plot quality information per product (world map)

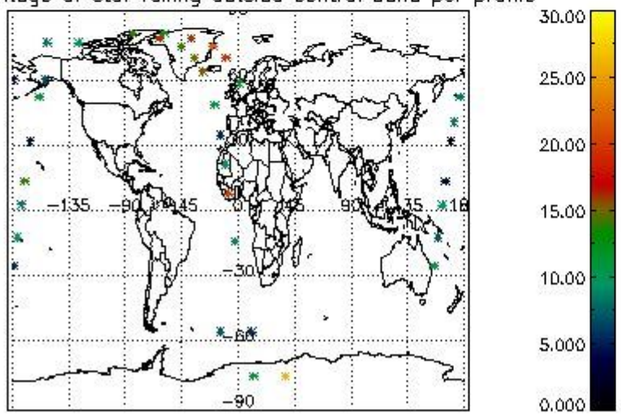
Percentage of cosmic ray hits per profile



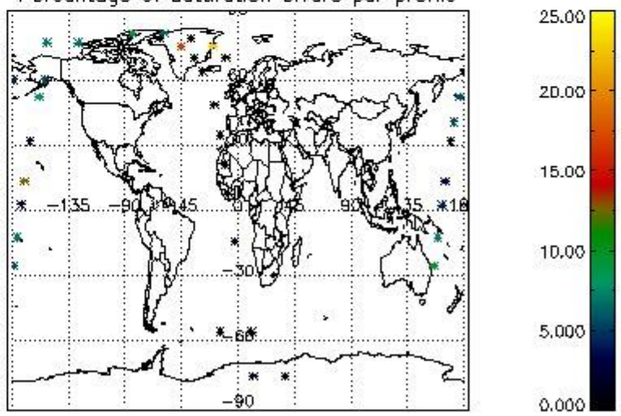
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



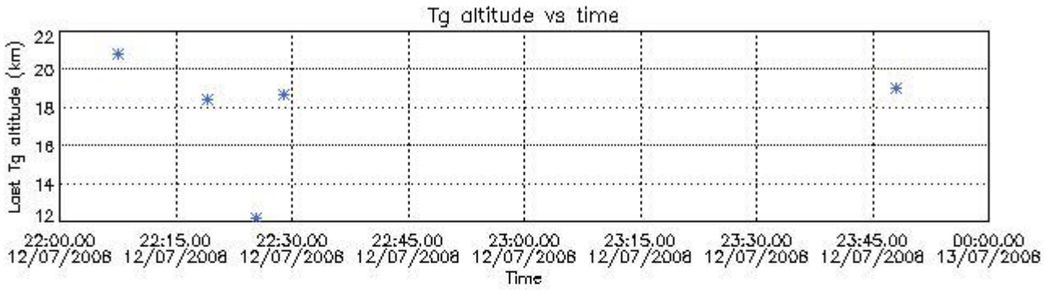
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

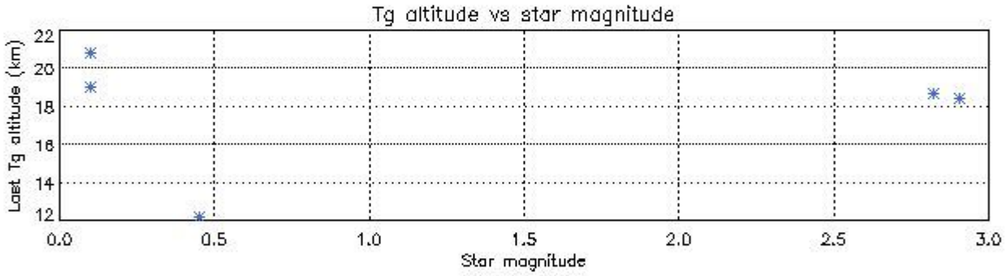
6.1 Statistics on tangent altitude lost:

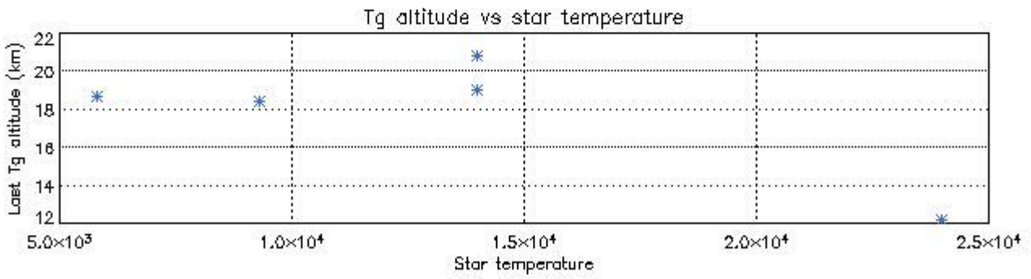
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.816	18.596	12.086
St. deviation:	3.2883	3.0371	5.5294
Maximum:	20.803	23.305	15.996
Minimum:	12.177	11.091	8.1762
Number of data:	5.0000	23.000	2.0000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

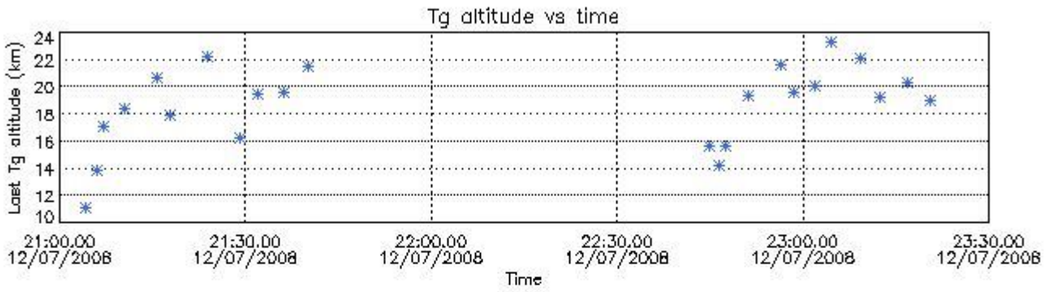


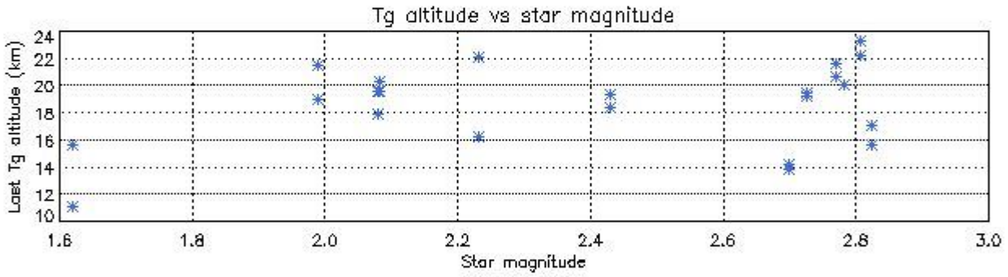


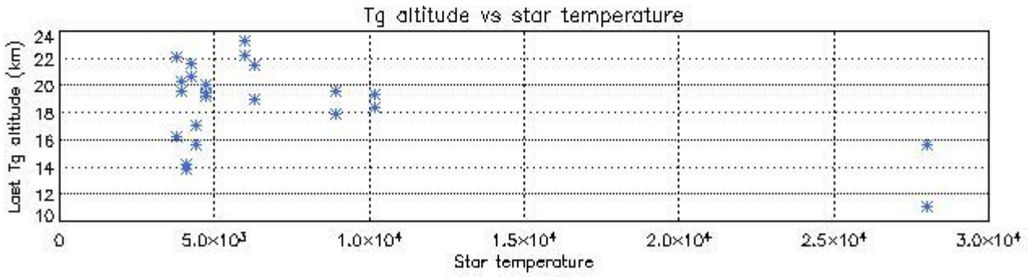


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

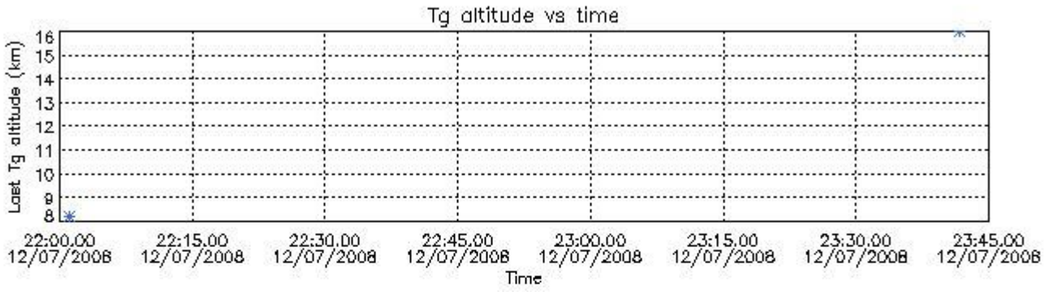


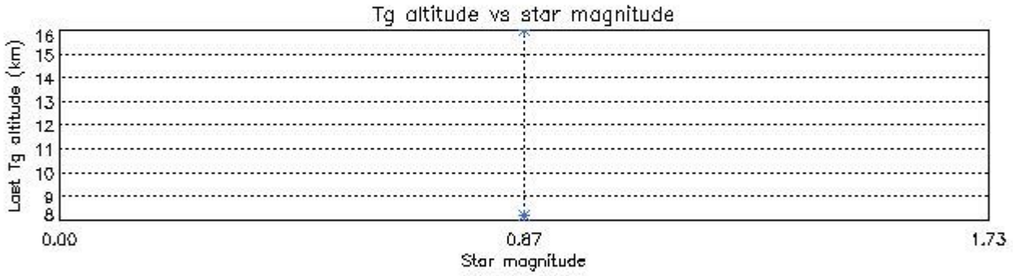


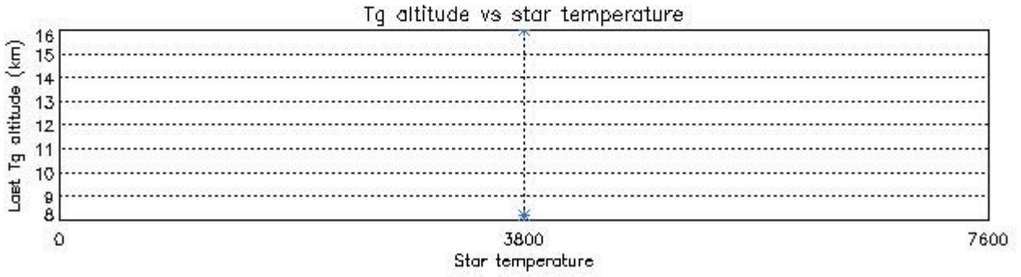


6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost





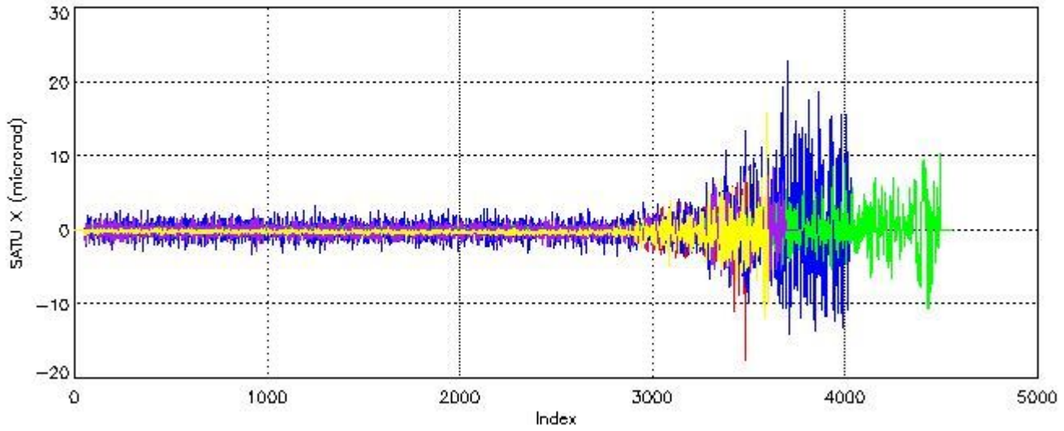


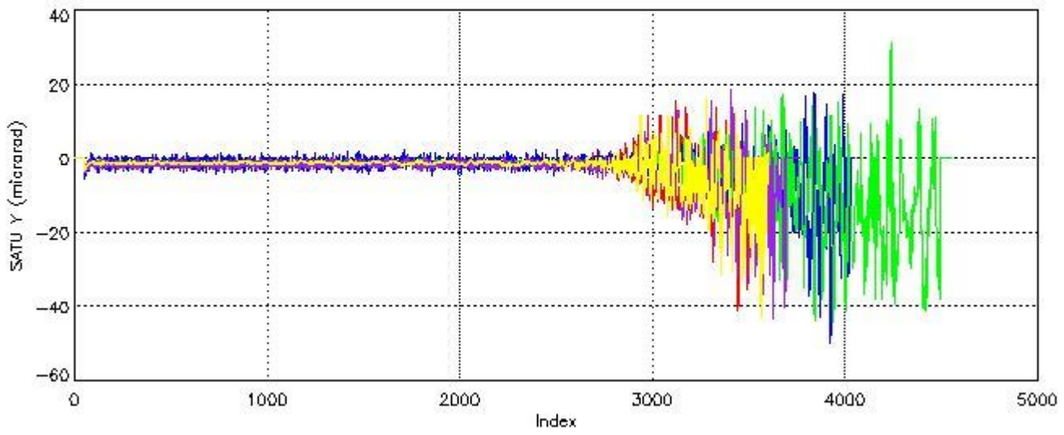
7. Star Acquisition and Tracking Unit (SATU)

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:	-0.073676	-1.3361	-0.021841	-1.4180
St. deviation:	0.44888	0.62447	0.61583	0.70808
Maximum:	2.7000	1.5000	3.1000	1.9000
Minimum:	-3.4000	-5.5000	-3.5000	-4.8000

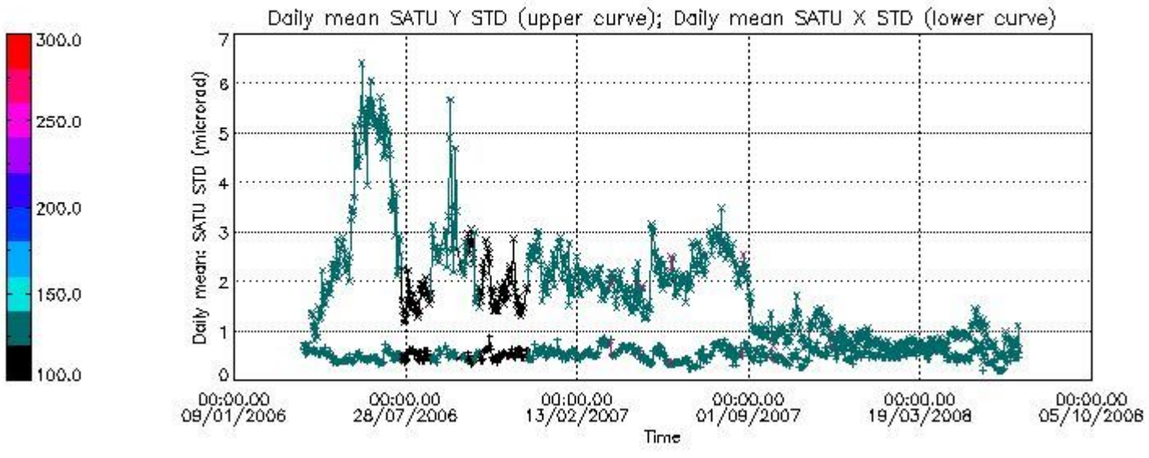
Number of data:	4350.0	4350.0	18950.	18950.

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.

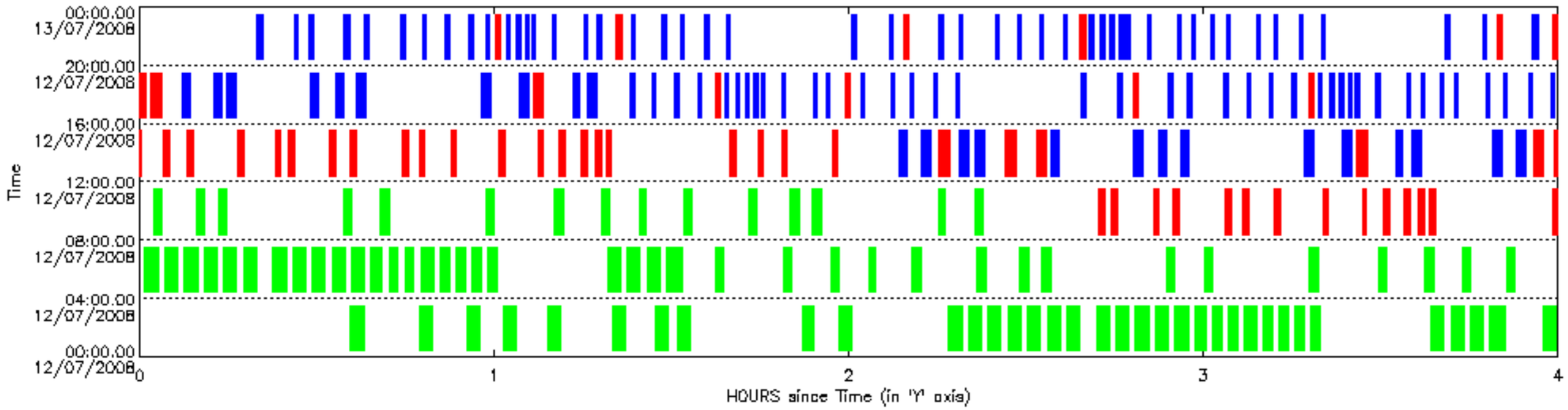
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

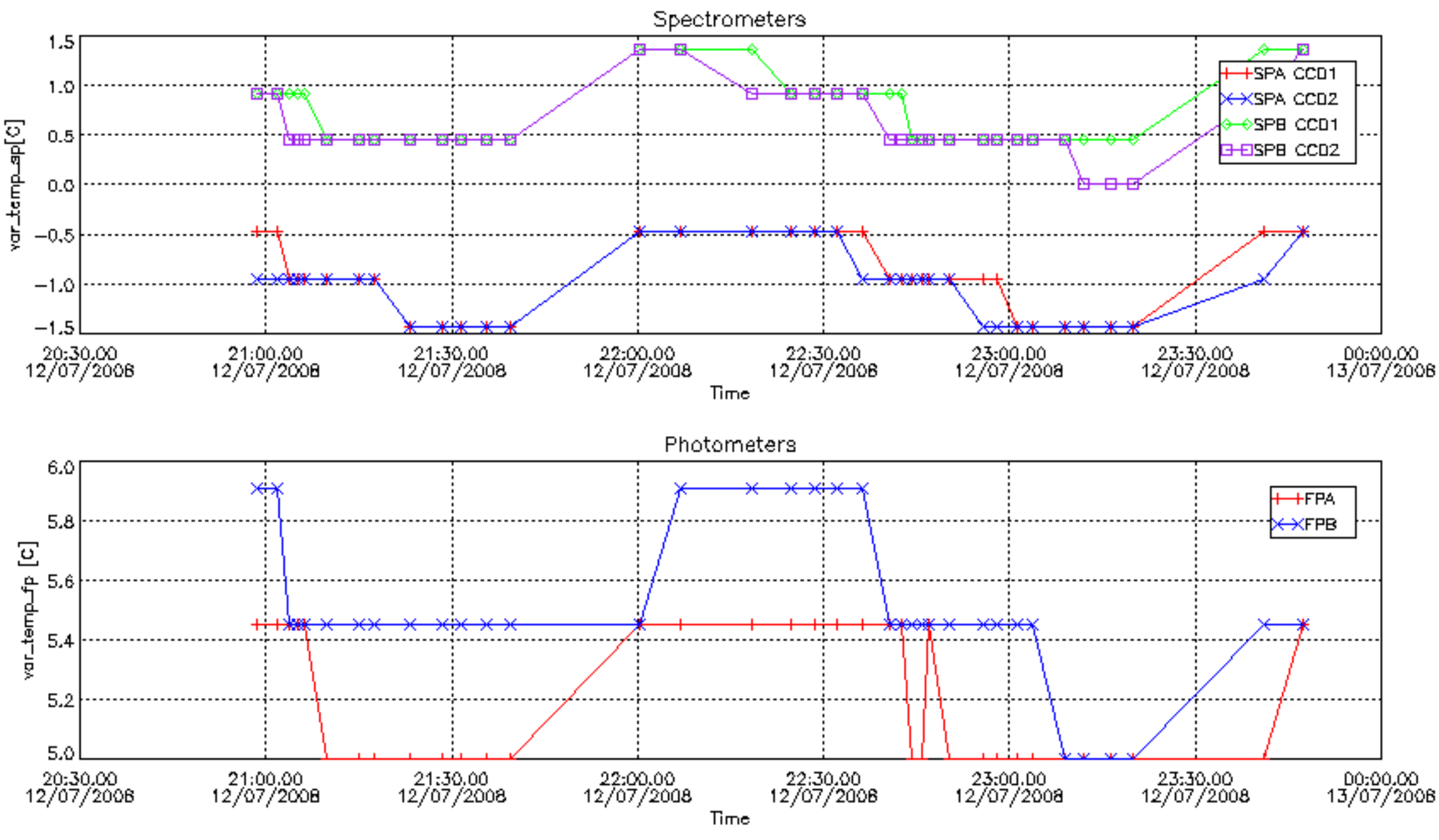


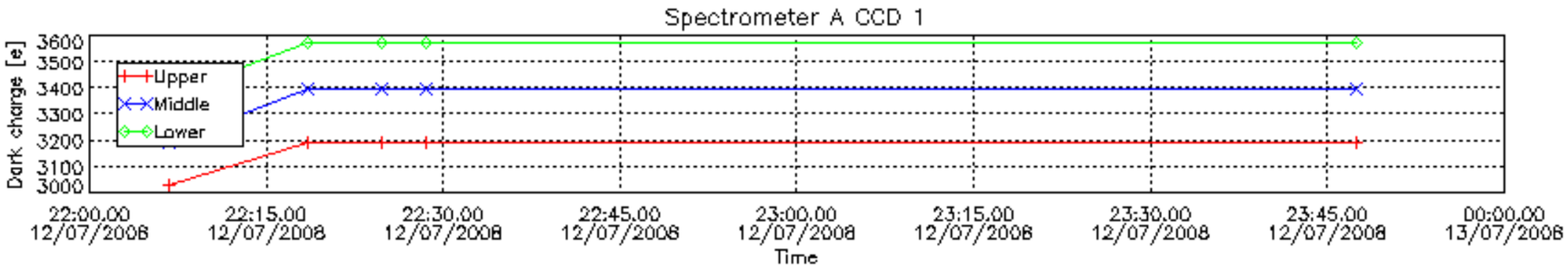
8. Auxiliary Data Files used for the production reported in section 2.4

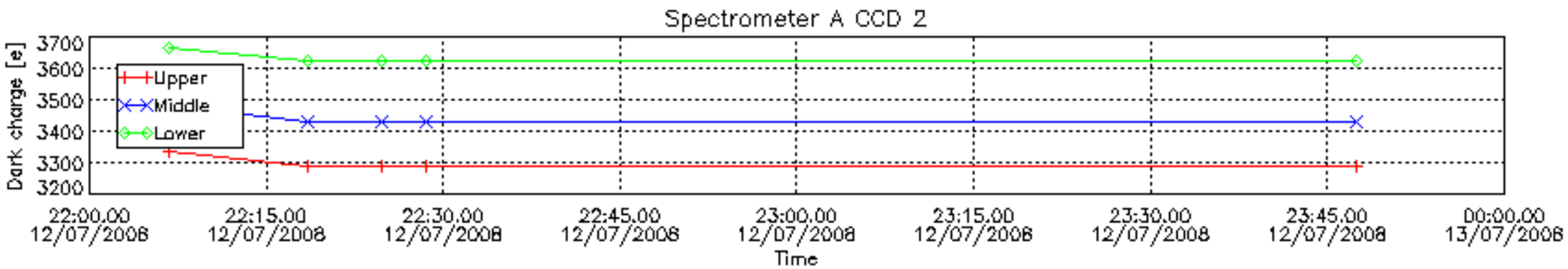
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

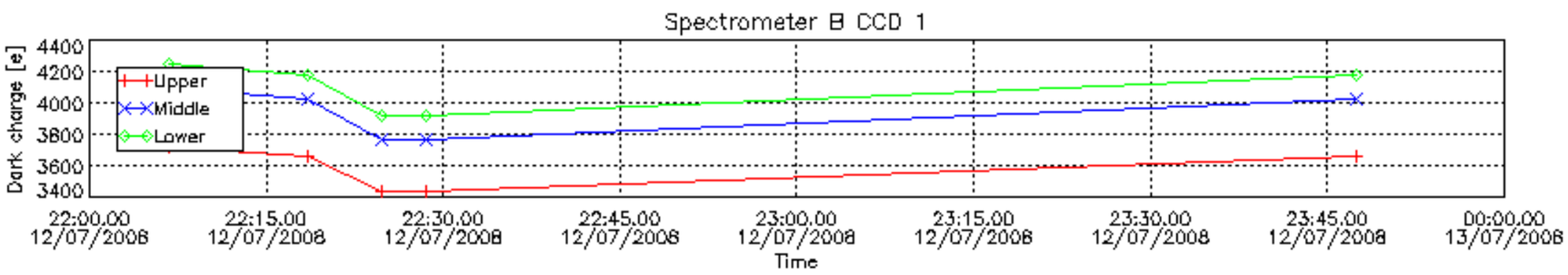
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	12-JUL-2008 20:58:34
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080711_132227_20080708_000000_20100101_000000	1	12-JUL-2008 20:58:34
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	12-JUL-2008 20:58:34
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-JUL-2008 20:58:34
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	12-JUL-2008 20:58:34
ECMWF_FILE	AUX_ECF_AXNECM20080712_072111_20080712_150000_20080713_030000	1	12-JUL-2008 20:58:34
ECMWF_FILE	AUX_ECF_AXNECM20080712_072111_20080712_210000_20080713_090000	16	12-JUL-2008 22:18:33
OPTIONAL_ECMWF_FILE	MISSING	1	12-JUL-2008 20:58:34
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20080712_205352_000041442070_00172_33292_5934.N1	1	12-JUL-2008 20:58:34

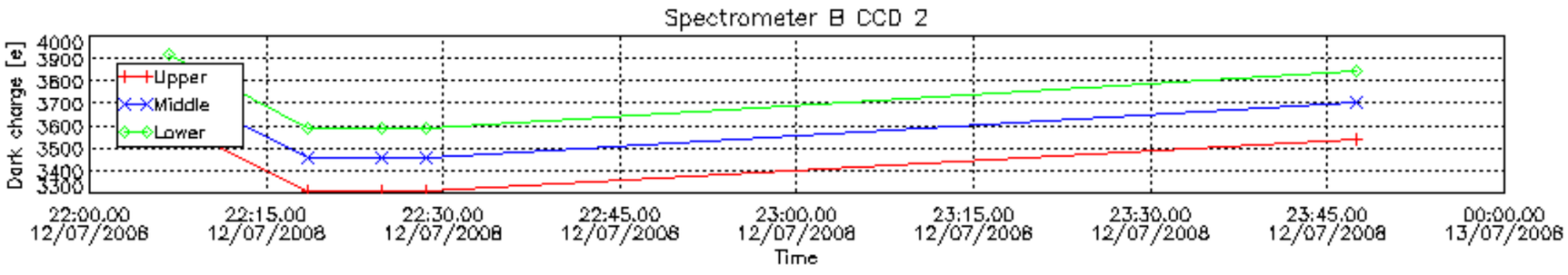

00:00.00
13/07/2008
20:00.00
12/07/2008
16:00.00
12/07/2008
12:00.00
12/07/2008
08:00.00
12/07/2008
04:00.00
12/07/2008
00:00.00
12/07/2008
Time
0
1
2
3
4
HOURS since Time (in 'Y' axis)

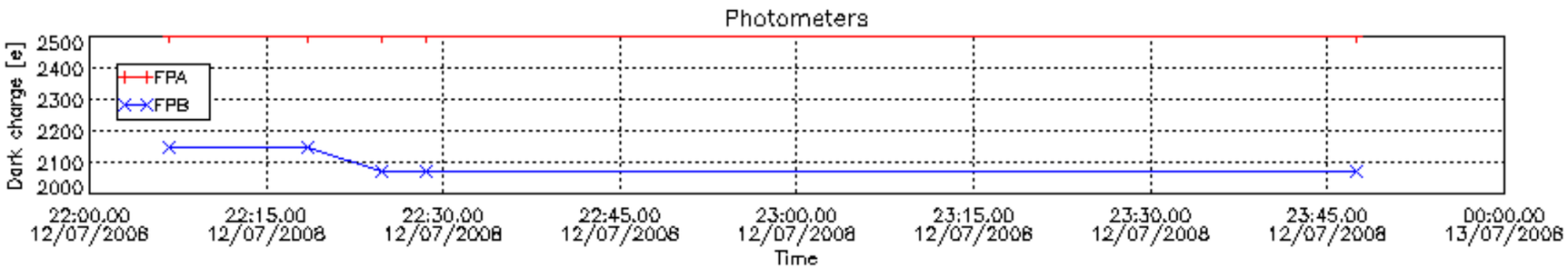

Spectrometers
var_temp_sp[C]
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
20:30.00
12/07/2008
21:00.00
12/07/2008
21:30.00
12/07/2008
22:00.00
12/07/2008
22:30.00
12/07/2008
23:00.00
12/07/2008
23:30.00
12/07/2008
00:00.00
13/07/2008
Time
Photometers
var_temp_fp [C]
6.0
5.8
5.6
5.4
5.2
5.0
FPA
FPB
20:30.00
12/07/2008
21:00.00
12/07/2008
21:30.00
12/07/2008
22:00.00
12/07/2008
22:30.00
12/07/2008
23:00.00
12/07/2008
23:30.00
12/07/2008
00:00.00
13/07/2008
Time

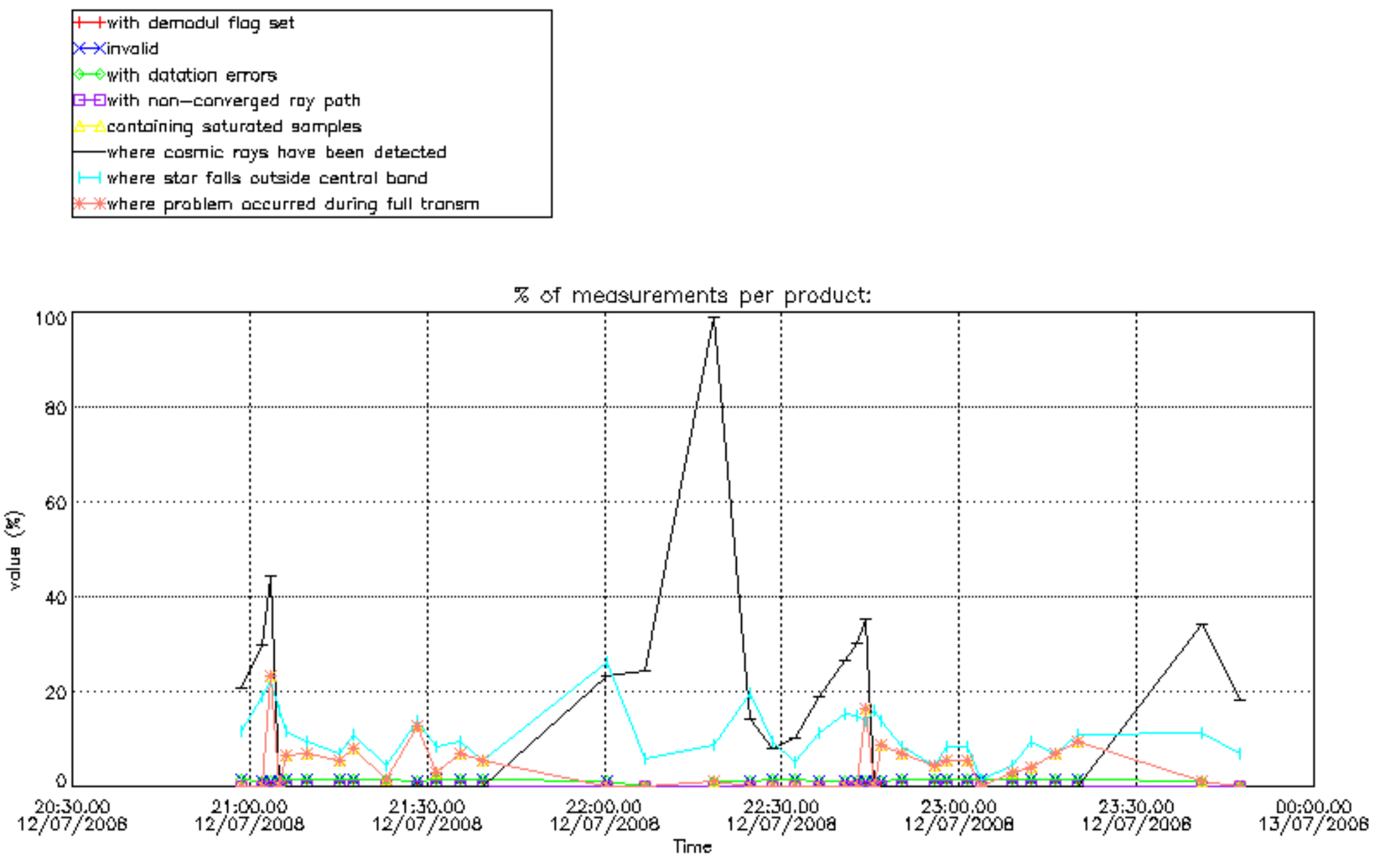

Spectrometer A CCD 1
Dark charge [e]
3600
3500
3400
3300
3200
3100
3000
Upper
Middle
Lower
22:00.00 12/07/2008
22:15.00 12/07/2008
22:30.00 12/07/2008
22:45.00 12/07/2008
23:00.00 12/07/2008
23:15.00 12/07/2008
23:30.00 12/07/2008
23:45.00 12/07/2008
00:00.00 13/07/2008
Time


Spectrometer A CCD 2
Dark charge [e]
3700
3600
3500
3400
3300
3200
Upper
Middle
Lower
22:00.00 12/07/2008
22:15.00 12/07/2008
22:30.00 12/07/2008
22:45.00 12/07/2008
23:00.00 12/07/2008
23:15.00 12/07/2008
23:30.00 12/07/2008
23:45.00 12/07/2008
00:00.00 13/07/2008
Time

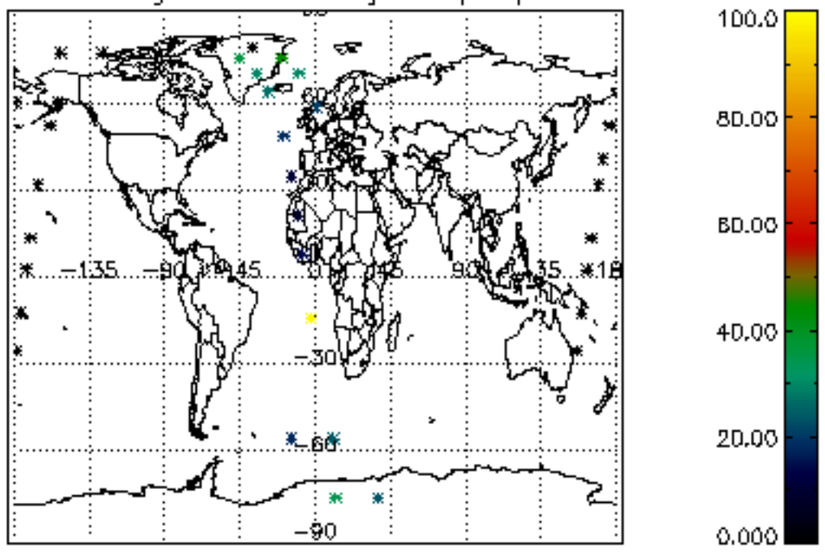

Spectrometer B CCD 1
Dark charge [e]
4400
4200
4000
3800
3600
3400
Upper
Middle
Lower
22:00.00 12/07/2008
22:15.00 12/07/2008
22:30.00 12/07/2008
22:45.00 12/07/2008
23:00.00 12/07/2008
23:15.00 12/07/2008
23:30.00 12/07/2008
23:45.00 12/07/2008
00:00.00 13/07/2008
Time


Spectrometer B CCD 2
Dark charge [e]
4000
3900
3800
3700
3600
3500
3400
3300
Upper
Middle
Lower
22:00.00 12/07/2008
22:15.00 12/07/2008
22:30.00 12/07/2008
22:45.00 12/07/2008
23:00.00 12/07/2008
23:15.00 12/07/2008
23:30.00 12/07/2008
23:45.00 12/07/2008
00:00.00 13/07/2008
Time

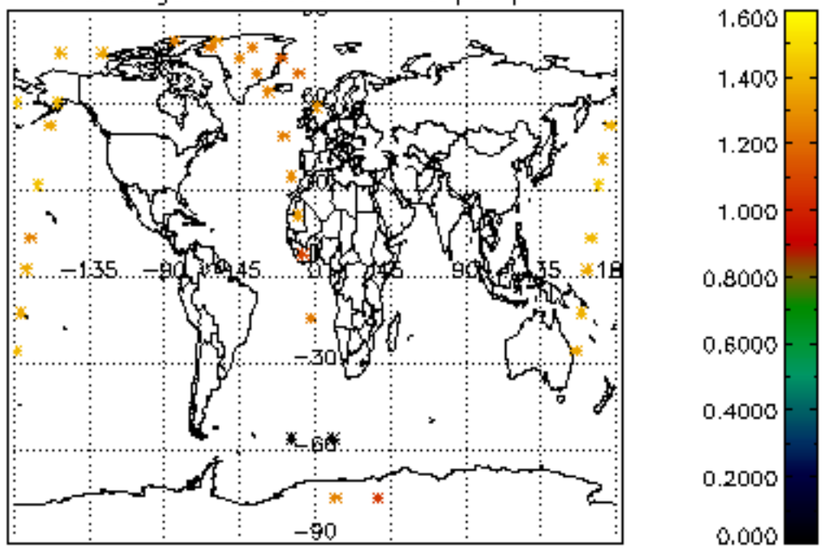

Photometers
Dark charge [e]
2500
2400
2300
2200
2100
2000
FPA
FPB
22:00.00 12/07/2008
22:15.00 12/07/2008
22:30.00 12/07/2008
22:45.00 12/07/2008
23:00.00 12/07/2008
23:15.00 12/07/2008
23:30.00 12/07/2008
23:45.00 12/07/2008
00:00.00 13/07/2008
Time


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 (%)
20:30.00 12/07/2008
21:00.00 12/07/2008
21:30.00 12/07/2008
22:00.00 12/07/2008
22:30.00 12/07/2008
23:00.00 12/07/2008
23:30.00 12/07/2008
00:00.00 13/07/2008
Time

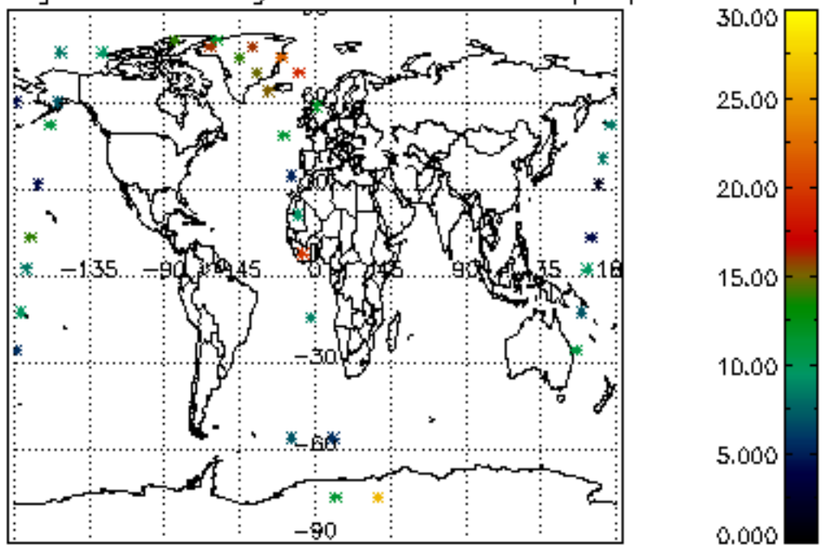
Percentage of cosmic ray hits per profile



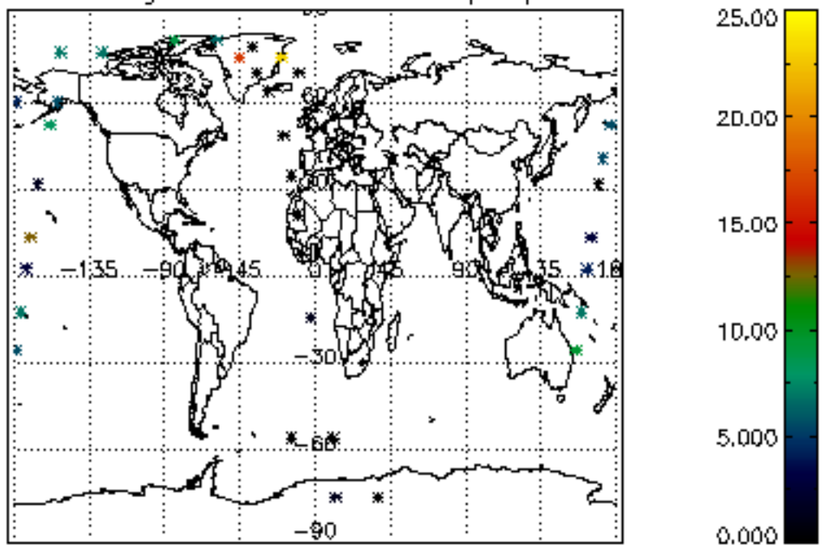
Percentage of datation errors per profile



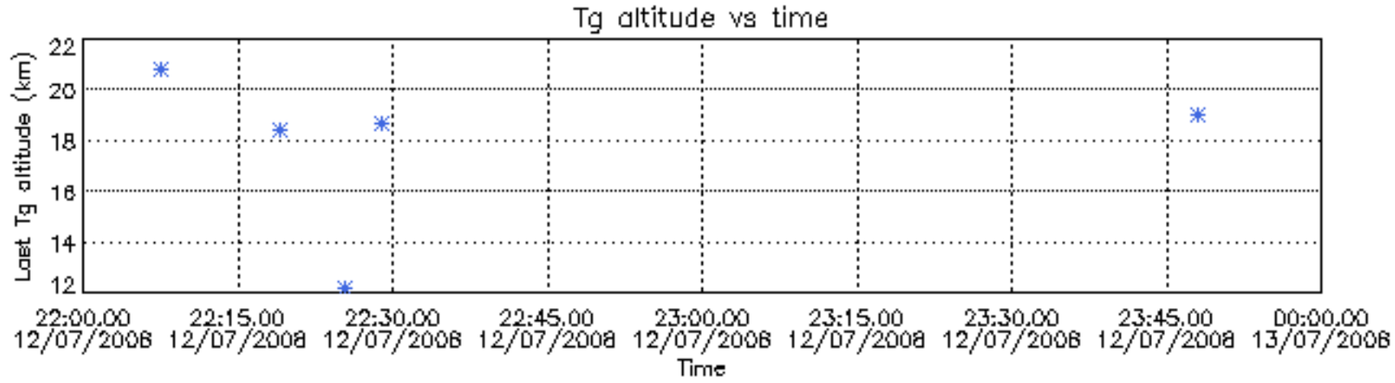
Percentage of star falling outside central band per profile

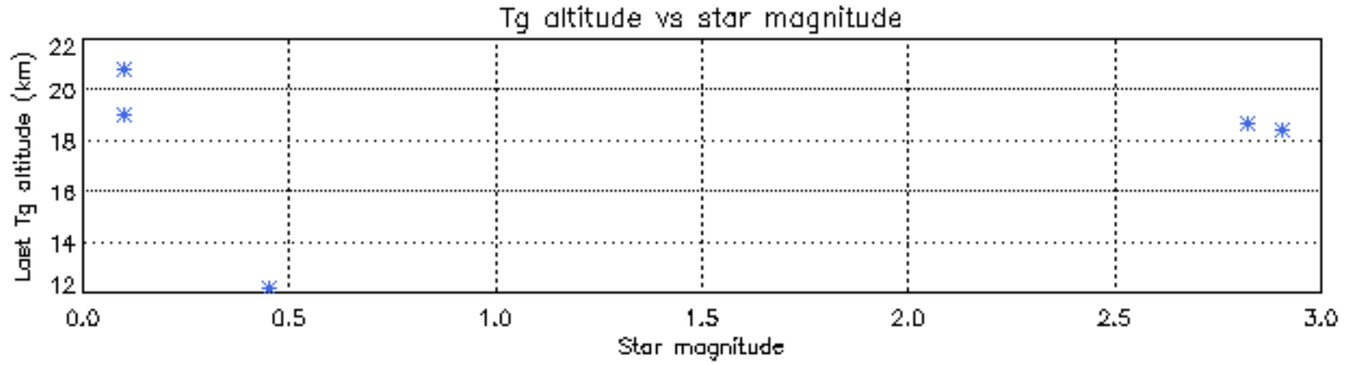


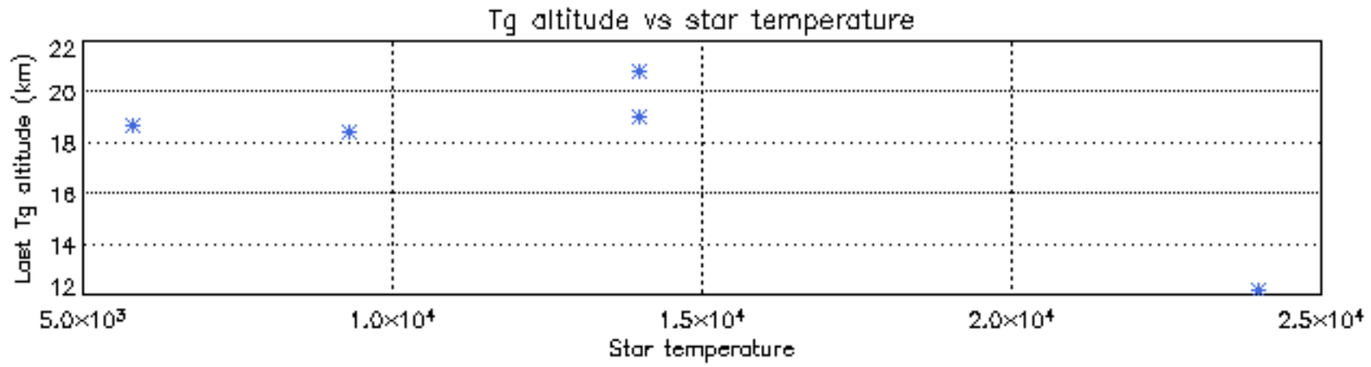
Percentage of saturation errors per profile



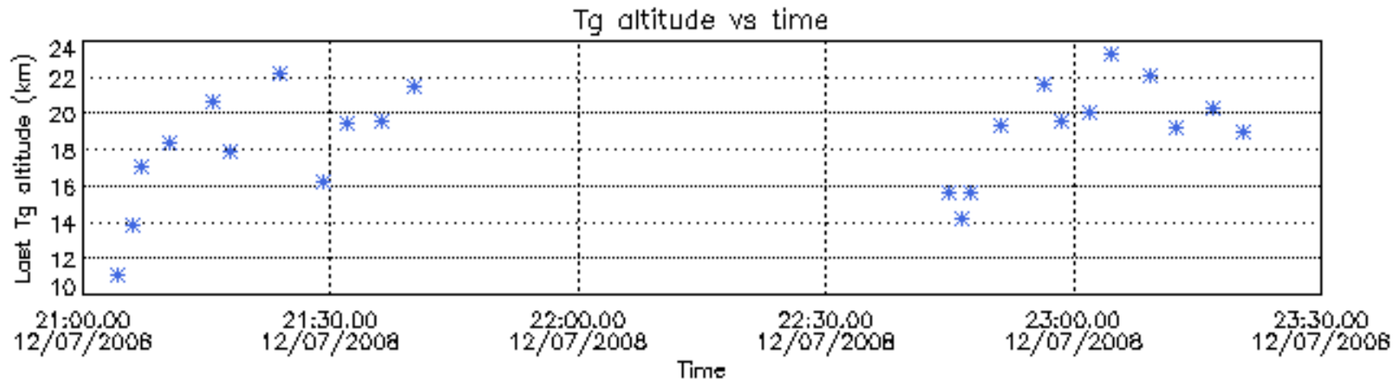
Tangent altitude at which the star is lost

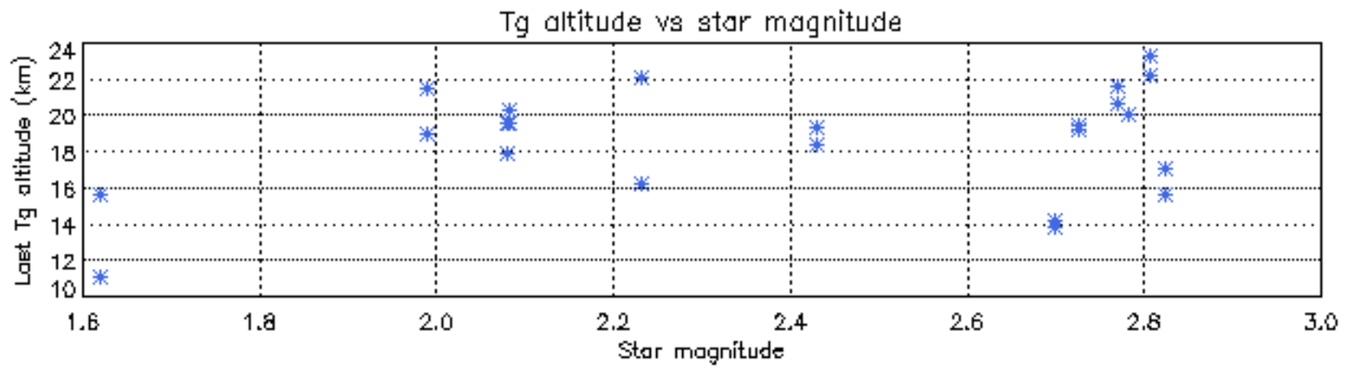


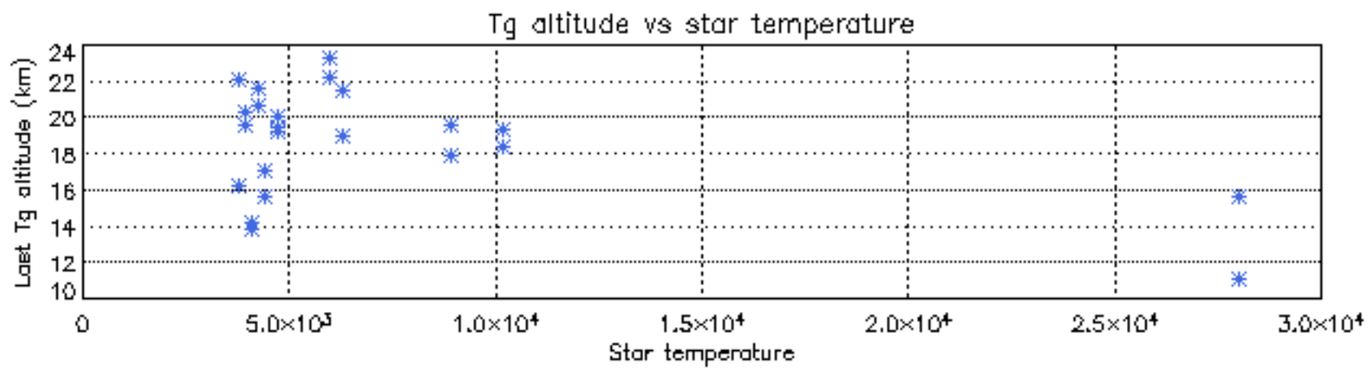




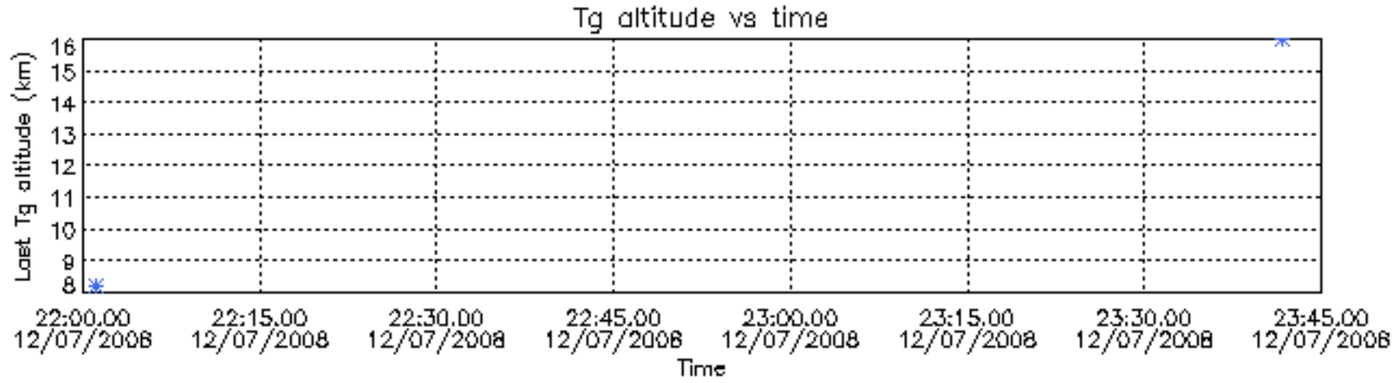
Tangent altitude at which the star is lost

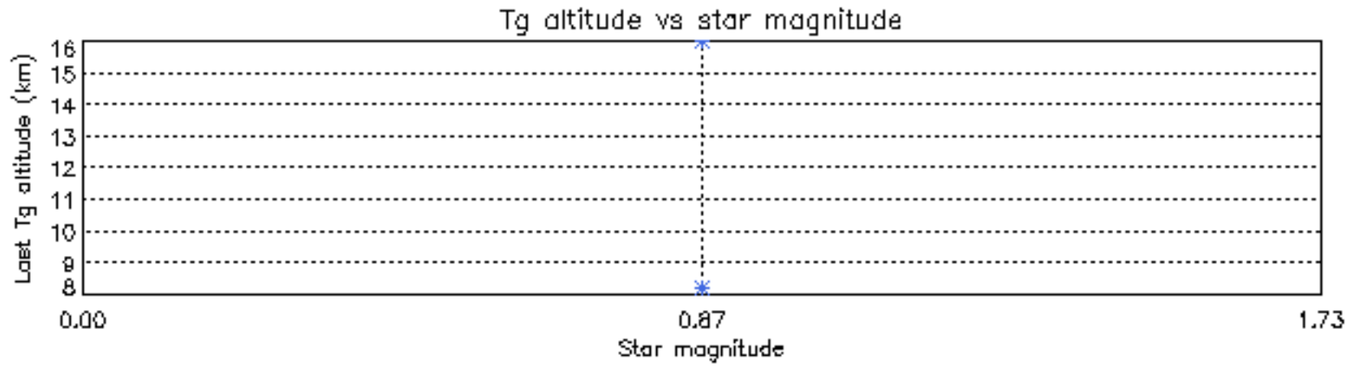


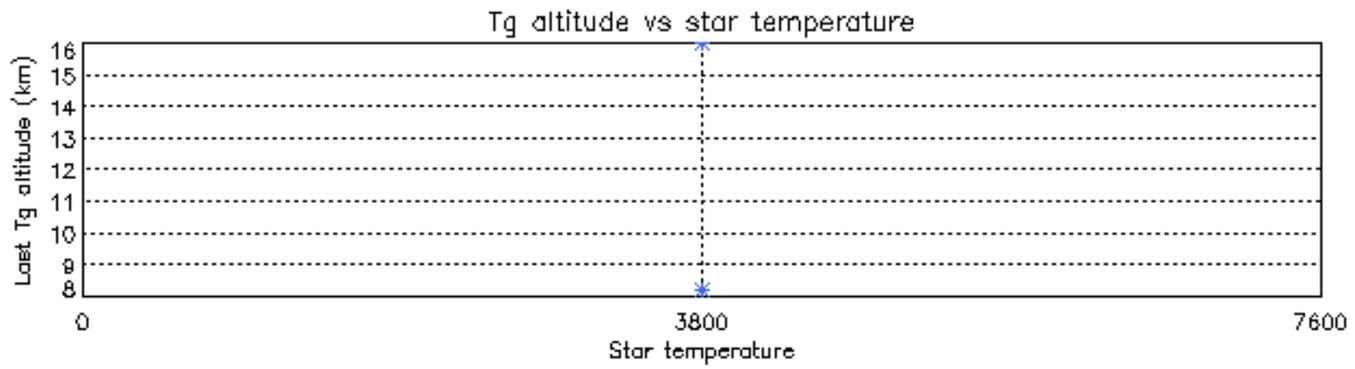


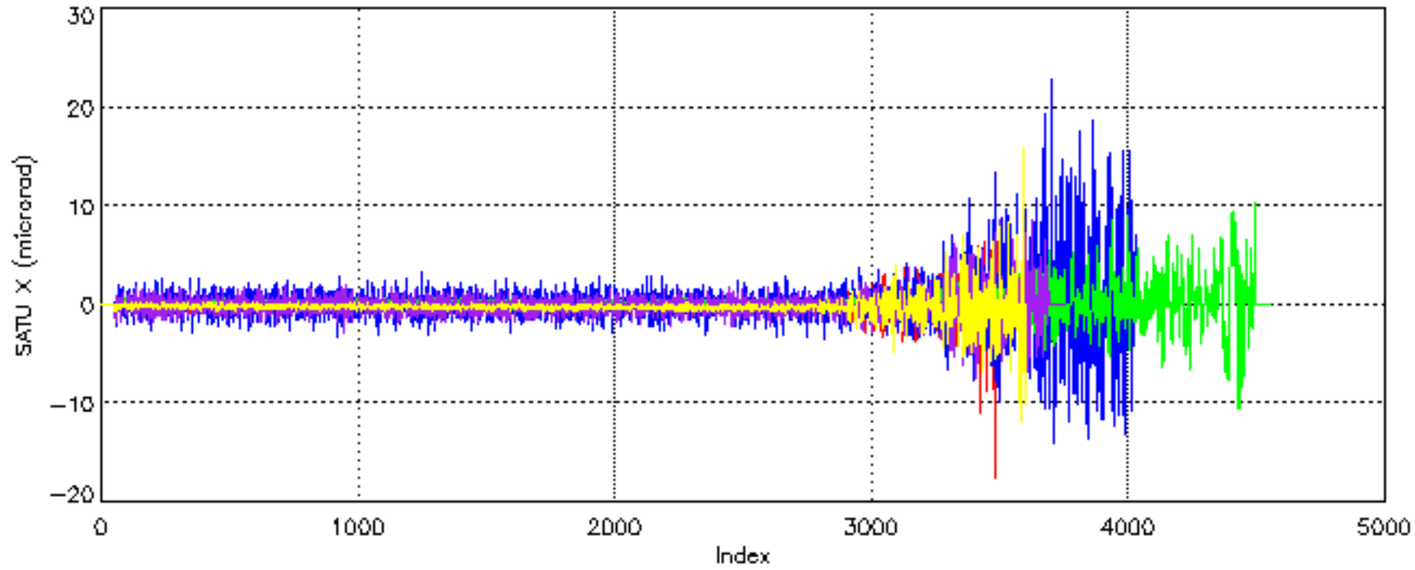


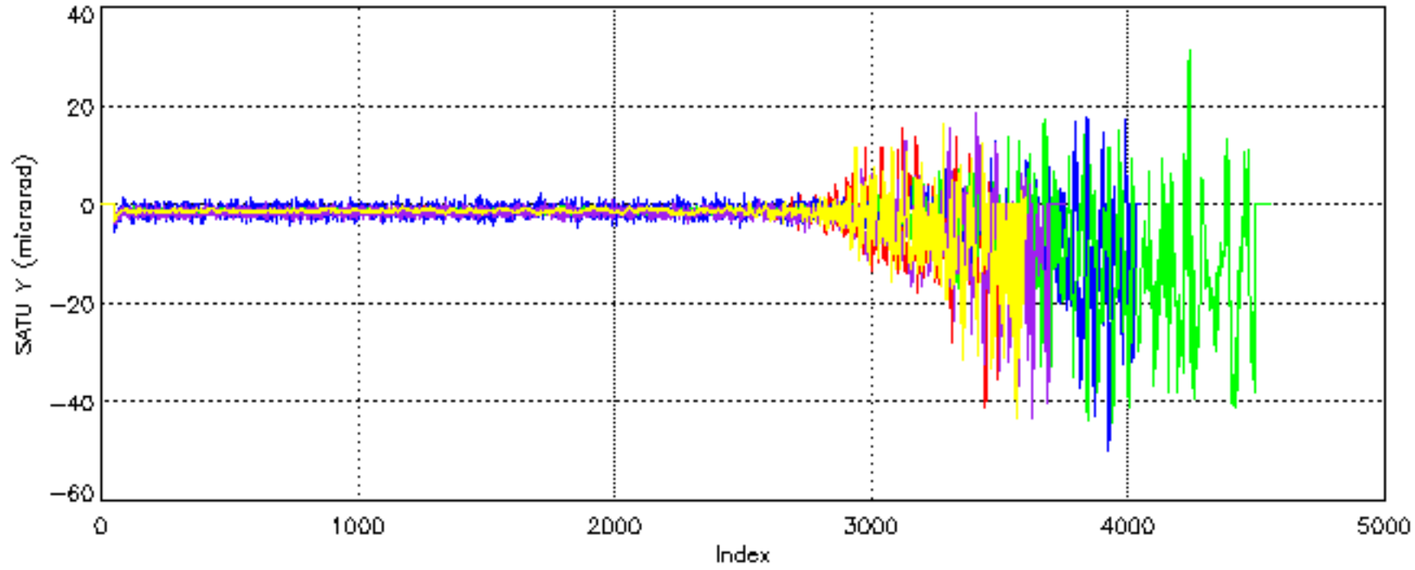
Tangent altitude at which the star is lost

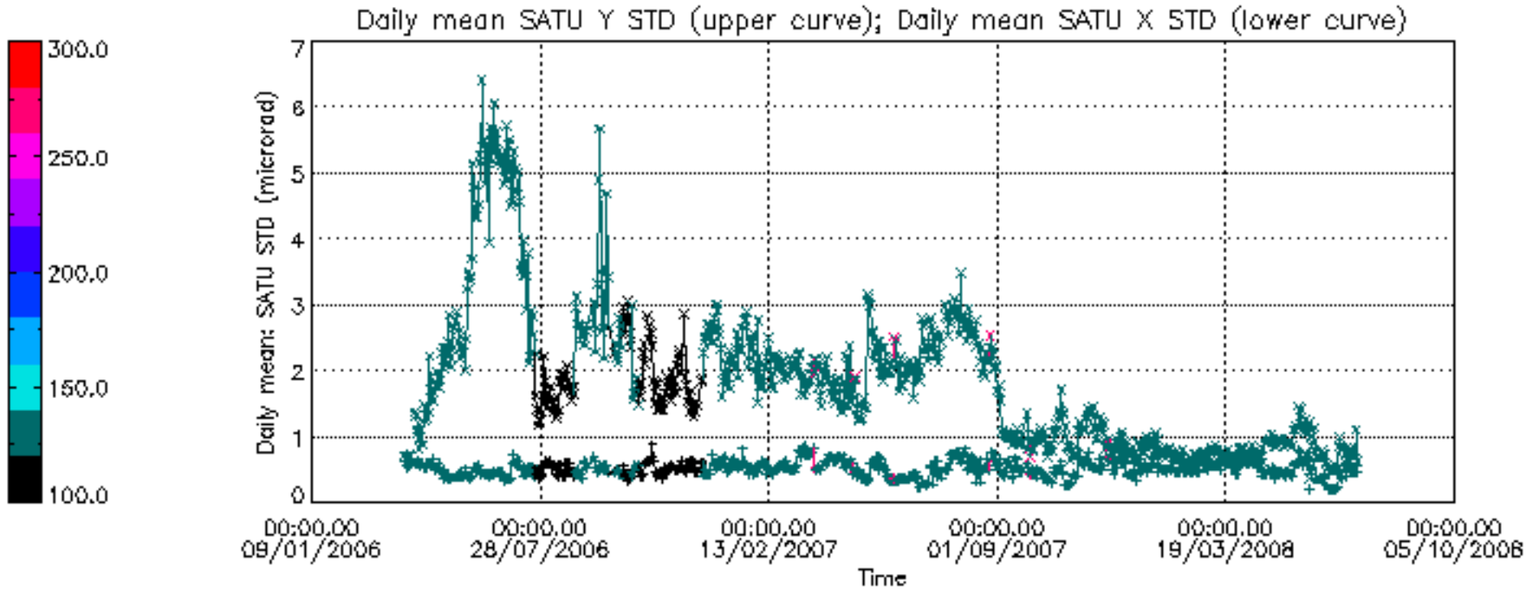







30
20
10
0
−10
−20
SATU X (microrad)
0
1000
2000
3000
4000
5000
Index


40
20
0
−20
−40
−60
S4TU Y (microrad)
0
1000
2000
3000
4000
5000
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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6; 341.2; 08-JUL-2008 04:27:29; Dark ; 36.0; 135; Bet Hyi ; 2.82; 5800;occ; 72; 0;33225
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   3; 2784.0; 23-JUL-2008 10:38:45; Bright;  37.5;   69; 33Gam Dra  ; 2.23;  3800;occ;  75;   0;33443
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  11; 2143.7; 28-JUL-2008 22:55:23; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70;   0;33522
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  4; 2790.5; 28-JUL-2008 13:02:34; Bright; 38.0;   69; 33Gam Dra ; 2.23; 3800;occ; 76;   0;33516
  5; 3111.8; 28-JUL-2008 13:07:55; Bright; 41.5;   89; 5Alp Cep ; 2.45; 8000;occ; 83;   0;33516

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   9; 4629.7; 28-JUL-2008 13:33:13; Dark  ;  39.0;  176; 23Zet Tau  ; 3.02; 22000;occ;  78;   0;33516
  10; 4772.7; 28-JUL-2008 13:35:36; Dark  ;  54.0;   13; 87Alp Tau  ; 0.87;  3800;occ; 108;   0;33516
  11; 4895.1; 28-JUL-2008 13:37:38; Dark  ;  39.5;   27; 24Gam Ori  ; 1.64; 26000;occ;  79;   0;33516
  12; 5010.2; 28-JUL-2008 13:39:33; Dark  ;  40.0;   30; 46Eps Ori  ; 1.69; 30000;occ;  80;   0;33516
  13; 5153.8; 28-JUL-2008 13:41:57; Dark  ;  45.0;    7; 19Bet Ori  ; 0.10; 14000;occ;  90;   0;33516
  14; 5288.0; 28-JUL-2008 13:44:11; Dark  ;  37.0;  101; 11Alp Lep  ; 2.58;  7000;occ;  74;   0;33516
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  16; 5703.3; 28-JUL-2008 13:51:07; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;33516
  17; 5969.5; 28-JUL-2008 13:55:33; Dark  ;  44.5;  157;   The1Eri  ; 2.91;  9300;occ;  89;   0;33516
  18; 6312.0; 28-JUL-2008 14:01:15; Dark  ;  46.0;    9;   Alp Eri  ; 0.45; 24000;occ;  92;   0;33516
  19; 6734.1; 28-JUL-2008 14:08:17; Dark  ;  39.5;  148;   Alp Tuc  ; 2.88;  4100;occ;  79;   0;33516
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   4; 2705.9; 28-JUL-2008 14:41:45; Bright;  36.5;  144; 18Del Cyg  ; 2.86; 11000;occ;  73;   0;33517
   5; 2790.7; 28-JUL-2008 14:43:10; Bright;  36.0;   69; 33Gam Dra  ; 2.23;  3800;occ;  72;   0;33517
   6; 3111.6; 28-JUL-2008 14:48:31; Bright;  42.0;   89;  5Alp Cep  ; 2.45;  8000;occ;  84;   0;33517
   7; 3441.7; 28-JUL-2008 14:54:01; Bright;  33.0;   49;  1Alp UMi  ; 1.99;  6300;occ;  66;   0;33517
   8; 4200.1; 28-JUL-2008 15:06:39; Bright;  39.5;    6; 13Alp Aur  ; 0.08;  3400;occ;  79;   0;33517
   9; 4507.5; 28-JUL-2008 15:11:47; Bright;  40.5;   28; 12Bet Tau  ; 1.65; 15200;occ;  81;   0;33517
  10; 4630.0; 28-JUL-2008 15:13:49; Dark  ;  38.5;  176; 23Zet Tau  ; 3.02; 22000;occ;  77;   0;33517
  11; 4773.1; 28-JUL-2008 15:16:12; Dark  ;  61.0;   13; 87Alp Tau  ; 0.87;  3800;occ; 122;   0;33517
  12; 4895.4; 28-JUL-2008 15:18:15; Dark  ;  42.5;   27; 24Gam Ori  ; 1.64; 26000;occ;  85;   0;33517
  13; 5010.6; 28-JUL-2008 15:20:10; Dark  ;  40.0;   30; 46Eps Ori  ; 1.69; 30000;occ;  80;   0;33517
  14; 5154.3; 28-JUL-2008 15:22:33; Dark  ;  40.0;    7; 19Bet Ori  ; 0.10; 14000;occ;  80;   0;33517
  15; 5288.3; 28-JUL-2008 15:24:47; Dark  ;  35.5;  101; 11Alp Lep  ; 2.58;  7000;occ;  71;   0;33517
  16; 5407.4; 28-JUL-2008 15:26:47; Dark  ;  49.0;  165; 34Gam Eri  ; 2.95;  3200;occ;  98;   0;33517
  17; 5704.0; 28-JUL-2008 15:31:43; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;33517
  18; 5970.4; 28-JUL-2008 15:36:10; Dark  ;  45.5;  157;   The1Eri  ; 2.91;  9300;occ;  91;   0;33517
  19; 6312.7; 28-JUL-2008 15:41:52; Dark  ;  45.5;    9;   Alp Eri  ; 0.45; 24000;occ;  91;   0;33517
  20; 6734.6; 28-JUL-2008 15:48:54; Dark  ;  41.0;  148;   Alp Tuc  ; 2.88;  4100;occ;  82;   0;33517
  21; 6931.5; 28-JUL-2008 15:52:11; Dark  ;  46.0;   31;   Alp Gru  ; 1.73; 15200;occ;  92;   0;33517
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   4; 2669.3; 28-JUL-2008 16:21:44; Bright;  25.0;   66; 37Gam Cyg  ; 2.21;  5900;occ;  50;   0;33518
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   7; 3441.6; 28-JUL-2008 16:34:37; Bright;  35.0;   49;  1Alp UMi  ; 1.99;  6300;occ;  70;   0;33518
   8; 4200.0; 28-JUL-2008 16:47:15; Bright;  40.0;    6; 13Alp Aur  ; 0.08;  3400;occ;  80;   0;33518
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  11; 4773.4; 28-JUL-2008 16:56:48; Dark  ;  60.0;   13; 87Alp Tau  ; 0.87;  3800;occ; 120;   0;33518
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  14; 5154.7; 28-JUL-2008 17:03:10; Dark  ;  39.5;    7; 19Bet Ori  ; 0.10; 14000;occ;  79;   0;33518
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  16; 5408.3; 28-JUL-2008 17:07:23; Dark  ;  40.0;  165; 34Gam Eri  ; 2.95;  3200;occ;  80;   0;33518
  17; 5704.7; 28-JUL-2008 17:12:20; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;33518
  18; 5971.4; 28-JUL-2008 17:16:46; Dark  ;  44.0;  157;   The1Eri  ; 2.91;  9300;occ;  88;   0;33518
  19; 6313.4; 28-JUL-2008 17:22:28; Dark  ;  46.0;    9;   Alp Eri  ; 0.45; 24000;occ;  92;   0;33518
  20; 6735.1; 28-JUL-2008 17:29:30; Dark  ;  42.0;  148;   Alp Tuc  ; 2.88;  4100;occ;  84;   0;33518
  21; 6932.1; 28-JUL-2008 17:32:47; Dark  ;  48.0;   31;   Alp Gru  ; 1.73; 15200;occ;  96;   0;33518
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   2; 1549.0; 28-JUL-2008 17:43:40; Bright;  37.5;  155; 41Pi  Sgr  ; 2.90;  6600;occ;  75;   0;33519
   3; 2063.3; 28-JUL-2008 17:52:14; Bright;  40.0;   11; 53Alp Aql  ; 0.76;  8000;occ;  80;   0;33519
   4; 2567.8; 28-JUL-2008 18:00:39; Bright;  50.5;    5;  3Alp Lyr  ; 0.03; 11000;occ; 101;   0;33519
   5; 2668.8; 28-JUL-2008 18:02:20; Bright;  25.0;   66; 37Gam Cyg  ; 2.21;  5900;occ;  50;   0;33519
   6; 2790.9; 28-JUL-2008 18:04:22; Bright;  36.5;   69; 33Gam Dra  ; 2.23;  3800;occ;  73;   0;33519
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   9; 4200.1; 28-JUL-2008 18:27:51; Bright;  40.0;    6; 13Alp Aur  ; 0.08;  3400;occ;  80;   0;33519
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  12; 4773.8; 28-JUL-2008 18:37:25; Dark  ;  46.0;   13; 87Alp Tau  ; 0.87;  3800;occ;  92;   0;33519
  13; 4895.9; 28-JUL-2008 18:39:27; Dark  ;  37.0;   27; 24Gam Ori  ; 1.64; 26000;occ;  74;   0;33519
  14; 5011.1; 28-JUL-2008 18:41:22; Dark  ;  38.0;   30; 46Eps Ori  ; 1.69; 30000;occ;  76;   0;33519
  15; 5154.9; 28-JUL-2008 18:43:46; Dark  ;  40.5;    7; 19Bet Ori  ; 0.10; 14000;occ;  81;   0;33519
  16; 5288.8; 28-JUL-2008 18:46:00; Dark  ;  36.5;  101; 11Alp Lep  ; 2.58;  7000;occ;  73;   0;33519
  17; 5409.1; 28-JUL-2008 18:48:00; Dark  ;  40.0;  165; 34Gam Eri  ; 2.95;  3200;occ;  80;   0;33519
  18; 5705.3; 28-JUL-2008 18:52:56; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;33519
  19; 5972.2; 28-JUL-2008 18:57:23; Dark  ;  45.5;  157;   The1Eri  ; 2.91;  9300;occ;  91;   0;33519
  20; 6314.0; 28-JUL-2008 19:03:05; Dark  ;  45.5;    9;   Alp Eri  ; 0.45; 24000;occ;  91;   0;33519
  21; 6735.5; 28-JUL-2008 19:10:07; Dark  ;  40.0;  148;   Alp Tuc  ; 2.88;  4100;occ;  80;   0;33519
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   3; 1549.2; 28-JUL-2008 19:24:16; Bright;  37.0;  155; 41Pi  Sgr  ; 2.90;  6600;occ;  74;   0;33520
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   3; -328.1; 29-JUL-2008 01:35:23; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;33523
   4;  -60.2; 29-JUL-2008 01:39:50; Dark  ;  44.0;  157;   The1Eri  ; 2.91;  9300;occ;  88;   0;33523
   5;  280.7; 29-JUL-2008 01:45:31; Dark  ;  44.0;    9;   Alp Eri  ; 0.45; 24000;occ;  88;   0;33524
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  11; 2143.6; 29-JUL-2008 02:16:34; Bright;  34.5;  168; 17Zet Aql  ; 2.99; 11000;occ;  69;   0;33524
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  14; 2791.5; 29-JUL-2008 02:27:22; Bright;  36.5;   69; 33Gam Dra  ; 2.23;  3800;occ;  73;   0;33524
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   3;-1404.7; 29-JUL-2008 02:58:02; Dark  ;  39.0;  176; 23Zet Tau  ; 3.02; 22000;occ;  78;   0;33524
   4;-1260.4; 29-JUL-2008 03:00:26; Dark  ;  56.0;   13; 87Alp Tau  ; 0.87;  3800;occ; 112;   0;33524
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 12; 708.5; 30-JUL-2008 04:42:14; Dark ; 42.5; 148;   Alp Tuc ; 2.88; 4100;occ; 85;   0;33540
 13; 907.5; 30-JUL-2008 04:45:33; Dark ; 44.0;   31;   Alp Gru ; 1.73; 15200;occ; 88;   0;33540
 14; 1096.9; 30-JUL-2008 04:48:42; Dark ; 44.5; 172;   Gam Gru ; 3.00; 13100;occ; 89;   0;33540
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 17; 2144.1; 30-JUL-2008 05:06:10; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69;   0;33540
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 11; 292.4; 30-JUL-2008 06:15:54; Dark ; 42.0;   9;   Alp Eri ; 0.45; 24000;occ; 84;   0;33541
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 13; 908.1; 30-JUL-2008 06:26:10; Dark ; 52.5;   31;   Alp Gru ; 1.73; 15200;occ; 105;   0;33541
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 16; 2061.3; 30-JUL-2008 06:45:23; Bright; 38.0;   11; 53Alp Aql ; 0.76; 8000;occ; 76;   0;33541
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 18; 2568.7; 30-JUL-2008 06:53:50; Bright; 38.0;   5; 3Alp Lyr ; 0.03; 11000;occ; 76;   0;33541
 19; 2659.4; 30-JUL-2008 06:55:21; Bright; 42.5;   66; 37Gam Cyg ; 2.21; 5900;occ; 85;   0;33541
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  3; 2060.3; 30-JUL-2008 20:10:09; Bright; 38.0;   11; 53Alp Aql ; 0.76; 8000;occ; 76;   0;33549
  4; 2144.3; 30-JUL-2008 20:11:33; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69;   0;33549
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  6; 2656.0; 30-JUL-2008 20:20:05; Bright; 42.5;   66; 37Gam Cyg ; 2.21; 5900;occ; 85;   0;33549
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  9; 4200.7; 30-JUL-2008 20:45:50; Bright; 40.5;   6; 13Alp Aur ; 0.08; 3400;occ; 81;   0;33549
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 12; 4784.5; 30-JUL-2008 20:55:34; Dark ; 52.0;   13; 87Alp Tau ; 0.87; 3800;occ; 104;   0;33549
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  9; 1101.9; 30-JUL-2008 21:34:47; Dark ; 46.0; 172;   Gam Gru ; 3.00; 13100;occ; 92;   0;33550
 10; 1554.0; 30-JUL-2008 21:42:19; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73;   0;33550
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 12; 2144.3; 30-JUL-2008 21:52:09; Bright; 35.5; 168; 17Zet Aql ; 2.99; 11000;occ; 71;   0;33550
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 16; 3441.1; 30-JUL-2008 22:13:46; Bright; 35.5;   49; 1Alp UMi ; 1.99; 6300;occ; 71;   0;33550

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  23; 5167.6; 30-JUL-2008 22:42:33; Dark ; 51.0;   7; 19Bet Ori ; 0.10; 14000;occ; 102;   0;33550
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   4; 913.3; 30-JUL-2008 23:12:14; Dark ; 44.0;   31;   Alp Gru ; 1.73; 15200;occ; 88;   0;33551
   5; 1102.2; 30-JUL-2008 23:15:23; Dark ; 46.5; 172;   Gam Gru ; 3.00; 13100;occ; 93;   0;33551
   6; 1554.1; 30-JUL-2008 23:22:55; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74;   0;33551
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  12; 3441.1; 30-JUL-2008 23:54:22; Bright; 35.5;   49; 1Alp UMi ; 1.99; 6300;occ; 71;   0;33551
  13; 4200.7; 31-JUL-2008 00:07:01; Bright; 42.0;   6; 13Alp Aur ; 0.08; 3400;occ; 84;   0;33551
  14; 4512.8; 31-JUL-2008 00:12:14; Dark ; 45.0;   28; 12Bet Tau ; 1.65; 15200;occ; 90;   0;33551
  15; 4636.8; 31-JUL-2008 00:14:18; Dark ; 38.0; 176; 23Zet Tau ; 3.02; 22000;occ; 76;   0;33551
  16; 4785.2; 31-JUL-2008 00:16:46; Dark ; 63.0;   13; 87Alp Tau ; 0.87; 3800;occ; 126;   0;33551
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   4; 2145.0; 31-JUL-2008 17:59:21; Bright;  34.0;  168; 17Zet Aql  ; 2.99; 11000;occ;  68;   0;33562
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