

GOMOS Daily Report 07-JUL-2008

Level 0 and Level 1 products

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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	09JUL2008 05:32:14
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (07JUL2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (08JUL2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

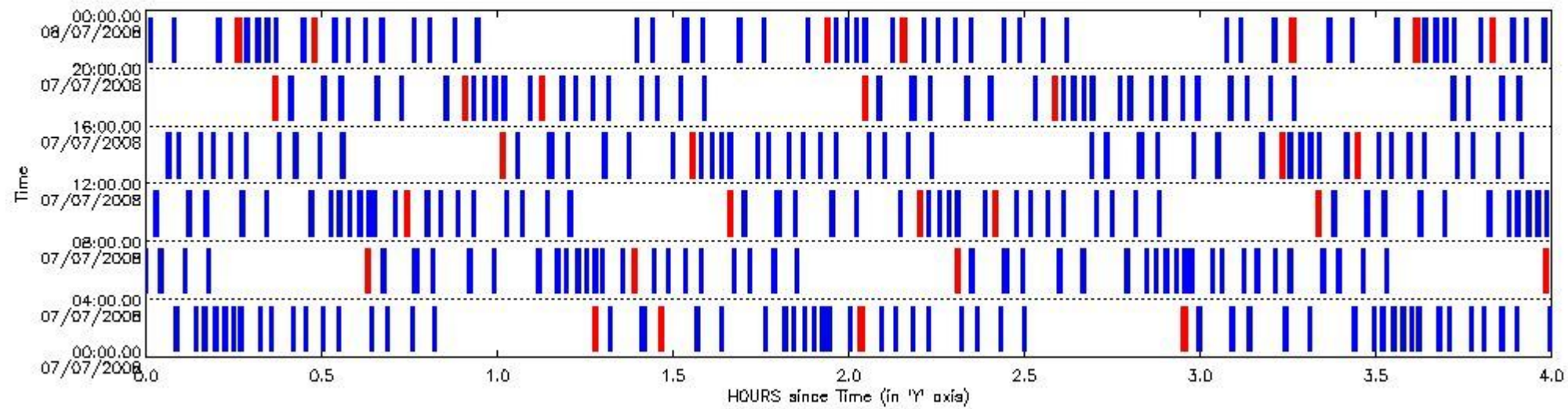
2.1 Level 0 products arrived in PCF (see template [here](#))

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
07-JUL-2008 01:16:12	19BetOri	7	33208
07-JUL-2008 01:27:23	The1Eri	157	33208
07-JUL-2008 02:01:36	13ZetOph	98	33209
07-JUL-2008 02:56:48	19BetOri	7	33209
07-JUL-2008 04:37:24	19BetOri	7	33210
07-JUL-2008 05:22:48	13ZetOph	98	33211
07-JUL-2008 06:18:00	19BetOri	7	33211
07-JUL-2008 07:58:36	19BetOri	7	33212
07-JUL-2008 08:44:01	13ZetOph	98	33213
07-JUL-2008 09:39:12	19BetOri	7	33213
07-JUL-2008 10:11:40	BetAra	141	33214
07-JUL-2008 10:24:37	13ZetOph	98	33214
07-JUL-2008 11:19:48	19BetOri	7	33214
07-JUL-2008 13:00:25	19BetOri	7	33215
07-JUL-2008 13:32:52	BetAra	141	33216

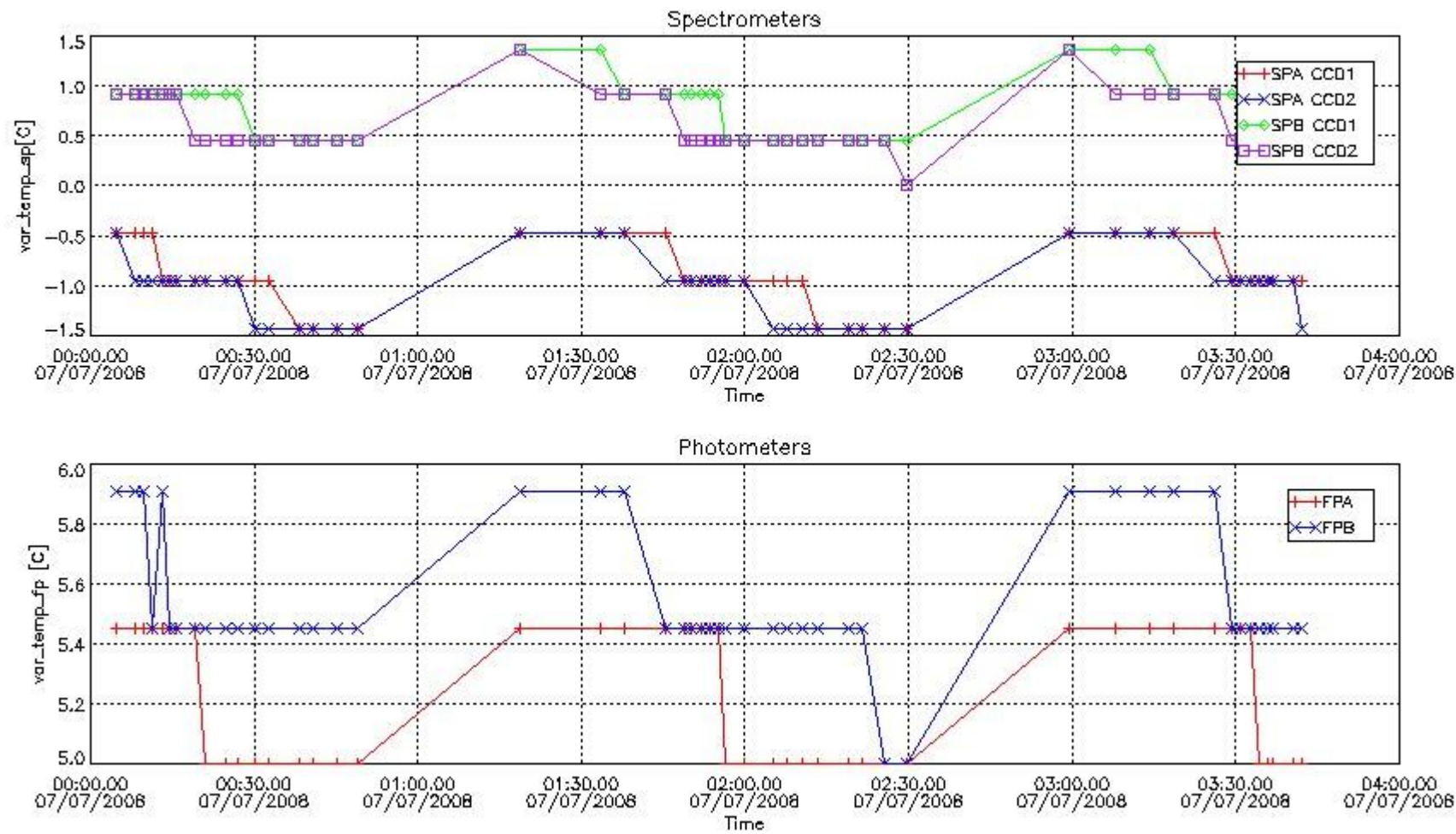
07-JUL-2008 15:13:28	BetAra	141	33217
07-JUL-2008 15:26:25	13ZetOph	98	33217
07-JUL-2008 16:21:37	19BetOri	7	33217
07-JUL-2008 16:54:04	BetAra	141	33218
07-JUL-2008 17:07:01	13ZetOph	98	33218
07-JUL-2008 18:02:13	19BetOri	7	33218
07-JUL-2008 18:34:40	BetAra	141	33219
07-JUL-2008 20:15:16	BetAra	141	33220
07-JUL-2008 20:28:14	13ZetOph	98	33220
07-JUL-2008 21:55:52	BetAra	141	33221
07-JUL-2008 22:08:50	13ZetOph	98	33221
07-JUL-2008 23:15:17	The1Eri	157	33221
07-JUL-2008 23:36:28	BetAra	141	33222
07-JUL-2008 23:49:26	13ZetOph	98	33222

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_1PNPDE20080707_000445_000000422070_00088_33208_5028.N1	07-JUL-2008 00:04:45	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	33208	No
2	GOM_TRA_1PNPDE20080707_000806_000000402070_00088_33208_5029.N1	07-JUL-2008 00:08:06	Straylight	39.500	141	Bet Ara	2.8400	4600.0	79	33208	No
3	GOM_TRA_1PNPDE20080707_000936_000000372070_00088_33208_5030.N1	07-JUL-2008 00:09:36	Twilight	37.000	147	Alp Ara	2.8770	26000.	74	33208	No
4	GOM_TRA_1PNPDE20080707_001126_000000412070_00088_33208_5031.N1	07-JUL-2008 00:11:26	Twilight	41.000	40	The Sco	1.8590	7100.0	82	33208	No
5	GOM_TRA_1PNPDE20080707_001305_000000402070_00088_33208_5032.N1	07-JUL-2008 00:13:05	Twilight	39.500	25	35Lam Sco	1.6200	28000.	79	33208	No
6	GOM_TRA_1PNPDE20080707_001433_000000452070_00088_33208_5033.N1	07-JUL-2008 00:14:33	Bright	44.500	116	19Del Sgr	2.7000	4100.0	89	33208	No
7	GOM_TRA_1PNPDE20080707_001544_000000402070_00088_33208_5034.N1	07-JUL-2008 00:15:44	Bright	39.500	137	22Lam Sgr	2.8240	4400.0	79	33208	No
8	GOM_TRA_1PNPDE20080707_001915_000000362070_00088_33208_5035.N1	07-JUL-2008 00:19:15	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	33208	No
9	GOM_TRA_1PNPDE20080707_002103_000000362070_00088_33208_5036.N1	07-JUL-2008 00:21:03	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	33208	No
10	GOM_TRA_1PNPDE20080707_002441_000000362070_00088_33208_5037.N1	07-JUL-2008 00:24:41	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	33208	No
11	GOM_TRA_1PNPDE20080707_002659_000000352070_00088_33208_5038.N1	07-JUL-2008 00:26:59	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	33208	No
12	GOM_TRA_1PNPDE20080707_002958_000000342070_00088_33208_5039.N1	07-JUL-2008 00:29:58	Bright	34.000	127	27Bet Her	2.7810	4700.0	68	33208	No
13	GOM_TRA_1PNPDE20080707_003236_000000332070_00088_33208_5040.N1	07-JUL-2008 00:32:36	Bright	33.000	133	40Zet Her	2.8070	6000.0	66	33208	No
14	GOM_TRA_1PNPDE20080707_003816_000000342070_00088_33208_5041.N1	07-JUL-2008 00:38:16	Bright	33.500	130	23Bet Dra	2.7990	5800.0	67	33208	No
15	GOM_TRA_1PNPDE20080707_004056_000000352070_00088_33208_5042.N1	07-JUL-2008 00:40:56	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	33208	No
16	GOM_TRA_1PNPDE20080707_004503_000000332070_00088_33208_5043.N1	07-JUL-2008 00:45:03	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	33208	No
17	GOM_TRA_1PNPDE20080707_004902_000000332070_00088_33208_5044.N1	07-JUL-2008 00:49:02	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	33208	No
18	GOM_TRA_1PNPDE20080707_011847_000000372070_00088_33208_5148.N1	07-JUL-2008 01:18:47	Dark	36.500	165	34Gam Eri	2.9500	3200.0	73	33208	No
19	GOM_TRA_1PNPDE20080707_013337_000000492070_00089_33209_5149.N1	07-JUL-2008 01:33:37	Dark	49.000	9	Alp Eri	0.45300	24000.	98	33209	No
20	GOM_TRA_1PNPDE20080707_013750_000000372070_00089_33209_5150.N1	07-JUL-2008 01:37:50	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	33209	No
21	GOM_TRA_1PNPDE20080707_014521_000000412070_00089_33209_5151.N1	07-JUL-2008 01:45:21	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	33209	No
22	GOM_TRA_1PNPDE20080707_014842_000000452070_00089_33209_5152.N1	07-JUL-2008 01:48:42	Straylight	44.500	141	Bet Ara	2.8400	4600.0	89	33209	No
23	GOM_TRA_1PNPDE20080707_015012_000000392070_00089_33209_5153.N1	07-JUL-2008 01:50:12	Twilight	38.500	147	Alp Ara	2.8770	26000.	77	33209	No
24	GOM_TRA_1PNPDE20080707_015202_000000422070_00089_33209_5154.N1	07-JUL-2008 01:52:02	Twilight	41.500	40	The Sco	1.8590	7100.0	83	33209	No
25	GOM_TRA_1PNPDE20080707_015341_000000412070_00089_33209_5155.N1	07-JUL-2008 01:53:41	Twilight	40.500	25	35Lam Sco	1.6200	28000.	81	33209	No
26	GOM_TRA_1PNPDE20080707_015509_000000532070_00089_33209_5156.N1	07-JUL-2008 01:55:09	Bright	53.000	116	19Del Sgr	2.7000	4100.0	106	33209	No
27	GOM_TRA_1PNPDE20080707_015620_000000402070_00089_33209_5157.N1	07-JUL-2008 01:56:20	Bright	40.000	137	22Lam Sgr	2.8240	4400.0	80	33209	No
28	GOM_TRA_1PNPDE20080707_015951_000000372070_00089_33209_5158.N1	07-JUL-2008 01:59:51	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	33209	No
29	GOM_TRA_1PNPDE20080707_020517_000000362070_00089_33209_5159.N1	07-JUL-2008 02:05:17	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	33209	No
30	GOM_TRA_1PNPDE20080707_020735_000000362070_00089_33209_5160.N1	07-JUL-2008 02:07:35	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	33209	No
31	GOM_TRA_1PNPDE20080707_021034_000000362070_00089_33209_5161.N1	07-JUL-2008 02:10:34	Bright	35.500	127	27Bet Her	2.7810	4700.0	71	33209	No
32	GOM_TRA_1PNPDE20080707_021312_000000342070_00089_33209_5162.N1	07-JUL-2008 02:13:12	Bright	34.000	133	40Zet Her	2.8070	6000.0	68	33209	No
33	GOM_TRA_1PNPDE20080707_021852_000000352070_00089_33209_5163.N1	07-JUL-2008 02:18:52	Bright	35.000	130	23Bet Dra	2.7990	5800.0	70	33209	No
34	GOM_TRA_1PNPDE20080707_022132_000000342070_00089_33209_5164.N1	07-JUL-2008 02:21:32	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	33209	No
35	GOM_TRA_1PNPDE20080707_022539_000000332070_00089_33209_5165.N1	07-JUL-2008 02:25:39	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	33209	No
36	GOM_TRA_1PNPDE20080707_022938_000000352070_00089_33209_5166.N1	07-JUL-2008 02:29:38	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	33209	No
37	GOM_TRA_1PNPDE20080707_025923_000000442070_00089_33209_5375.N1	07-JUL-2008 02:59:23	Dark	44.000	165	34Gam Eri	2.9500	3200.0	88	33209	No
38	GOM_TRA_1PNPDE20080707_030802_000000392070_00089_33209_5376.N1	07-JUL-2008 03:08:02	Dark	39.000	157	The1Eri	2.9060	9300.0	78	33209	No
39	GOM_TRA_1PNPDE20080707_031414_000000412070_00090_33210_5377.N1	07-JUL-2008 03:14:14	Dark	40.500	9	Alp Eri	0.45300	24000.	81	33210	No
40	GOM_TRA_1PNPDE20080707_031827_000000372070_00090_33210_5378.N1	07-JUL-2008 03:18:27	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	33210	No

41	GOM_TRA_1PNPDE20080707_032558_000000432070_00090_33210_5379.N1	07-JUL-2008 03:25:58	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	33210	No
42	GOM_TRA_1PNPDE20080707_032918_000000402070_00090_33210_5380.N1	07-JUL-2008 03:29:18	Straylight	40.000	141	Bet Ara	2.8400	4600.0	80	33210	No
43	GOM_TRA_1PNPDE20080707_033048_000000362070_00090_33210_5381.N1	07-JUL-2008 03:30:48	Twilight_stray	36.000	147	Alp Ara	2.8770	26000.	72	33210	No
44	GOM_TRA_1PNPDE20080707_033238_000000402070_00090_33210_5382.N1	07-JUL-2008 03:32:38	Twilight_stray	39.500	40	The Sco	1.8590	7100.0	79	33210	No
45	GOM_TRA_1PNPDE20080707_033418_000000412070_00090_33210_5383.N1	07-JUL-2008 03:34:18	Twilight_stray	41.000	25	35Lam Sco	1.6200	28000.	82	33210	No
46	GOM_TRA_1PNPDE20080707_033545_000000422070_00090_33210_5384.N1	07-JUL-2008 03:35:45	Bright	42.000	116	19Del Sgr	2.7000	4100.0	84	33210	No
47	GOM_TRA_1PNPDE20080707_033656_000000392070_00090_33210_5385.N1	07-JUL-2008 03:36:56	Bright	38.500	137	22Lam Sgr	2.8240	4400.0	77	33210	No
48	GOM_TRA_1PNPDE20080707_034027_000000382070_00090_33210_5386.N1	07-JUL-2008 03:40:27	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	33210	No
49	GOM_TRA_1PNPDE20080707_034215_000000372070_00090_33210_5387.N1	07-JUL-2008 03:42:15	Bright	37.000	98	13Zet Oph	2.5710	30000.	74	33210	No

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



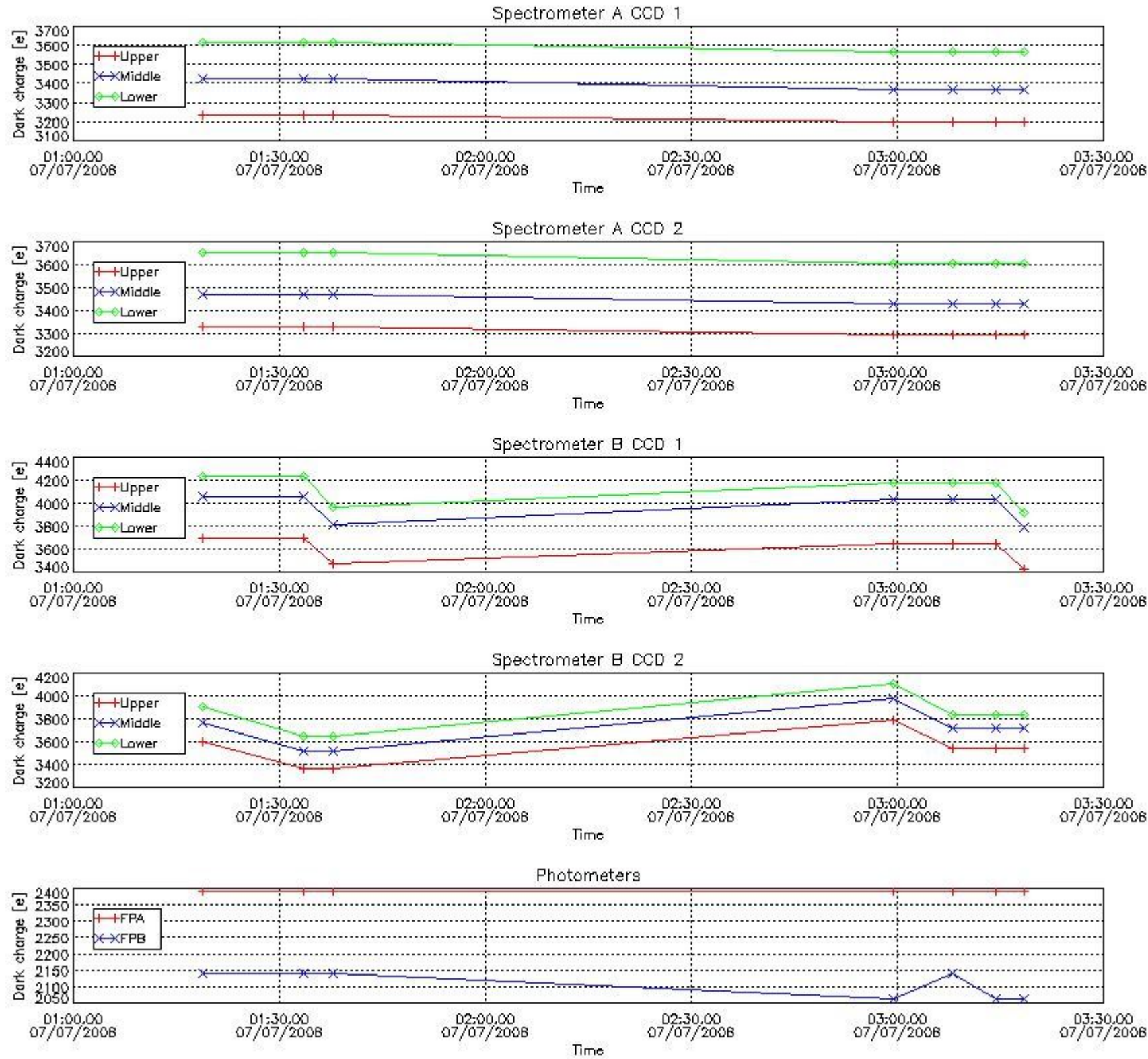
4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 All products used the DSA observation for the DC computation

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



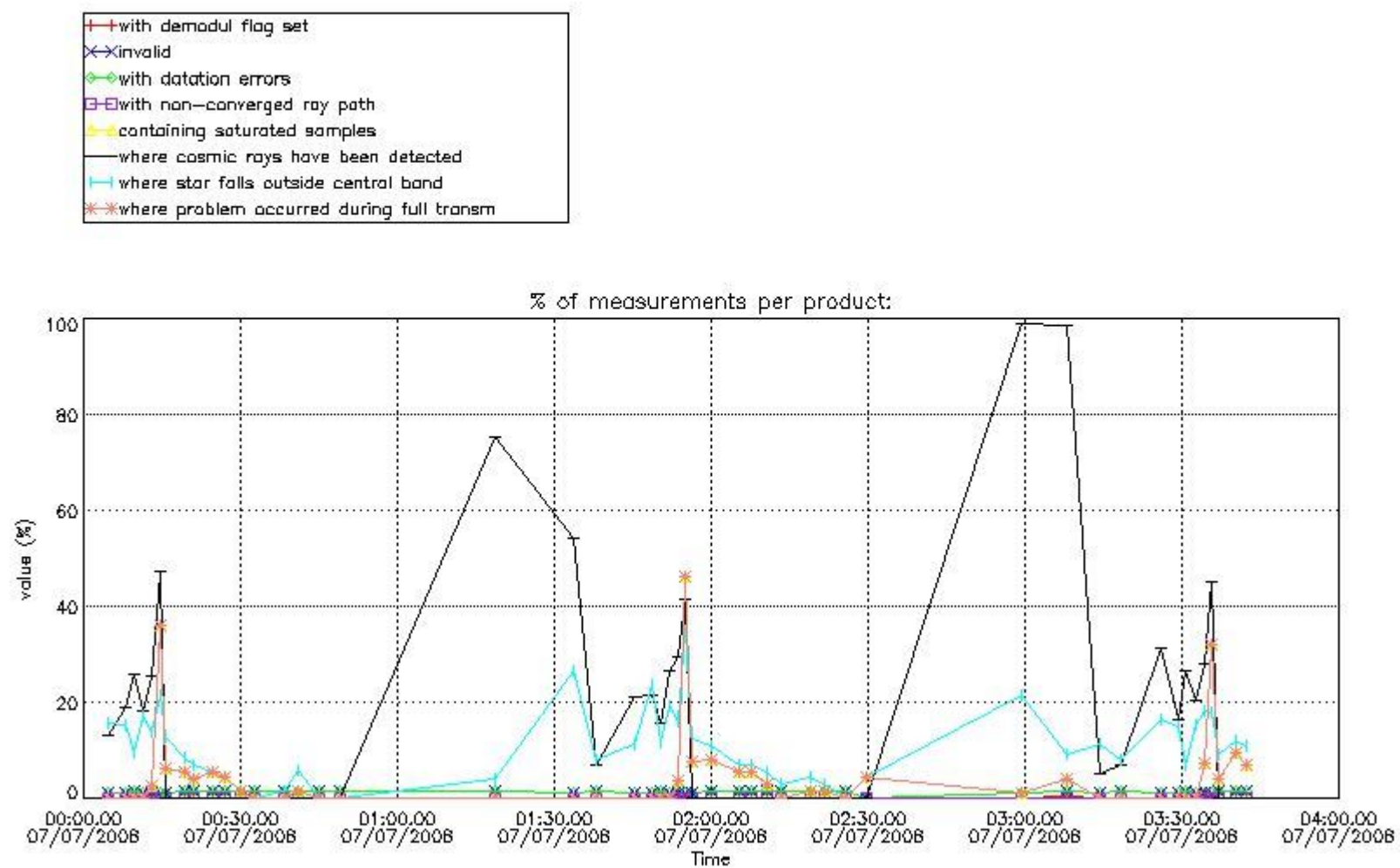
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

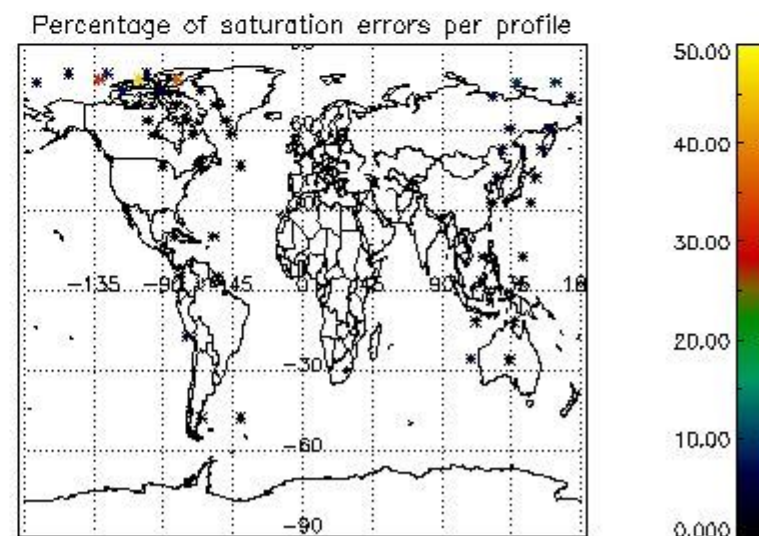
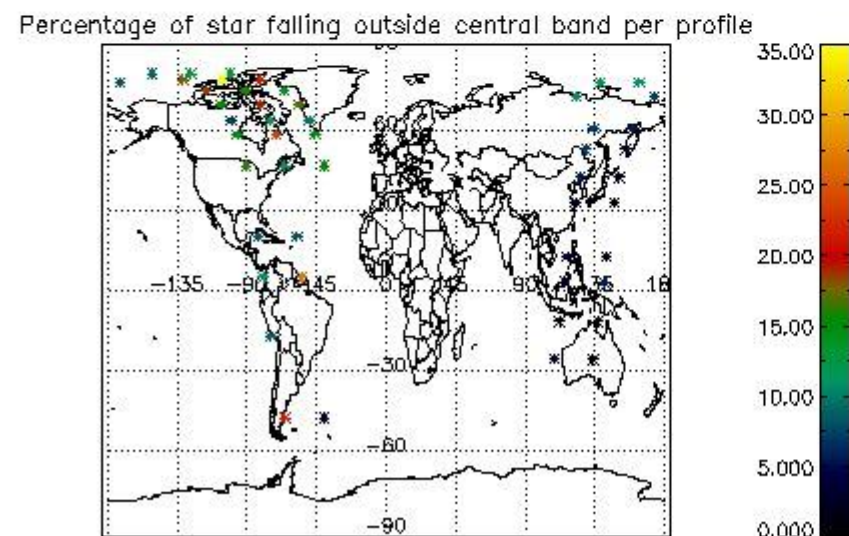
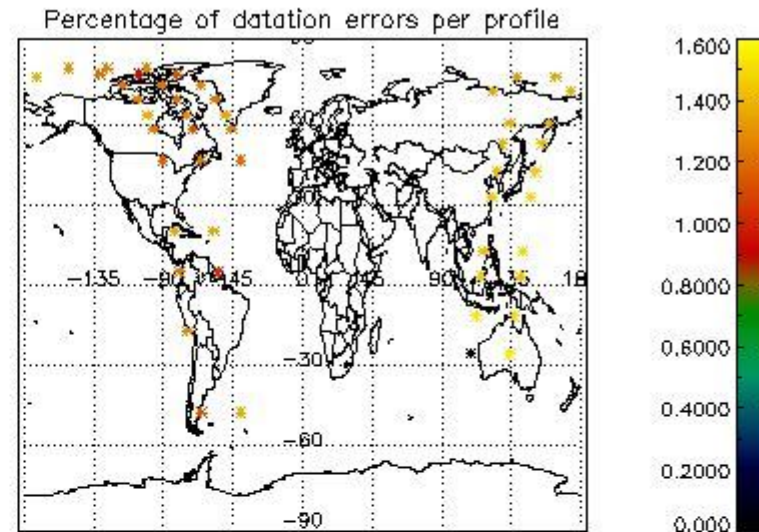
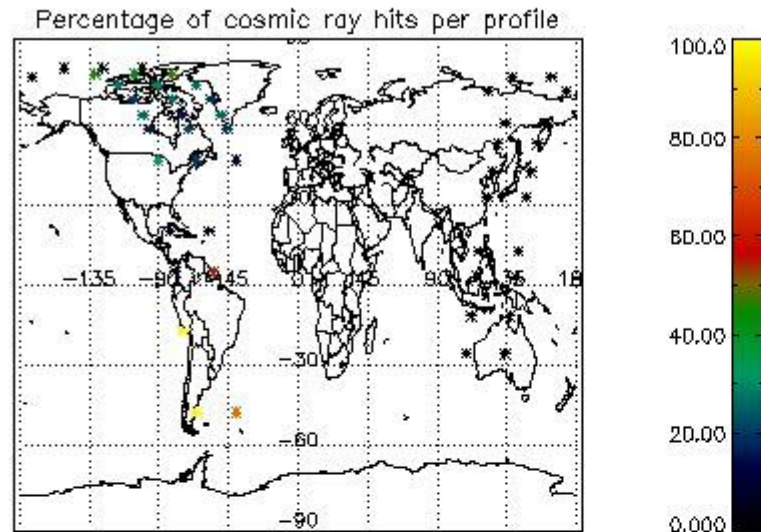
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.4490 %
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)



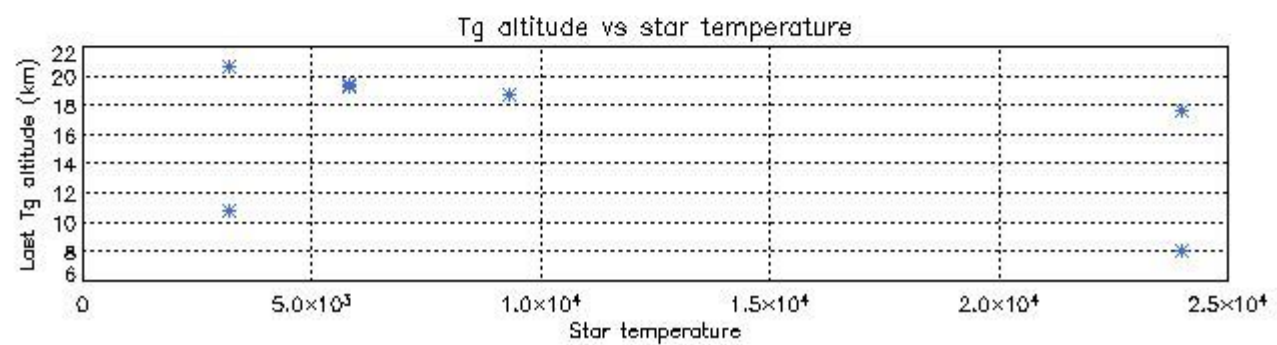
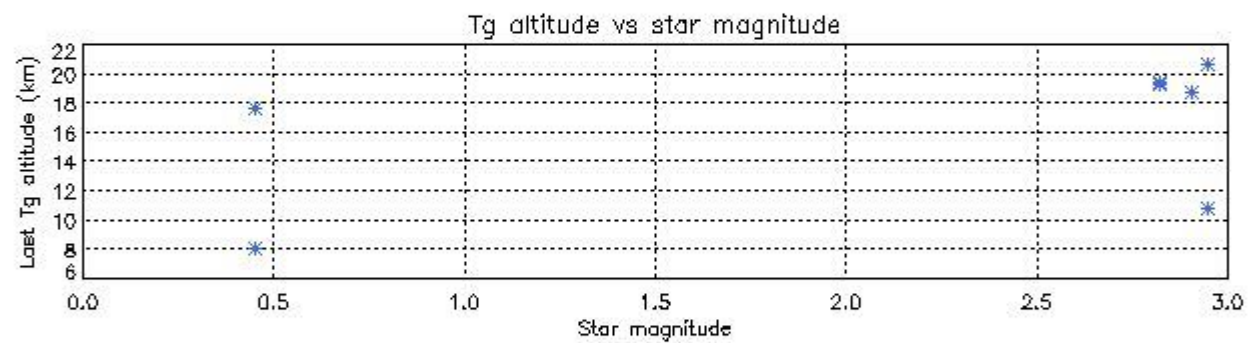
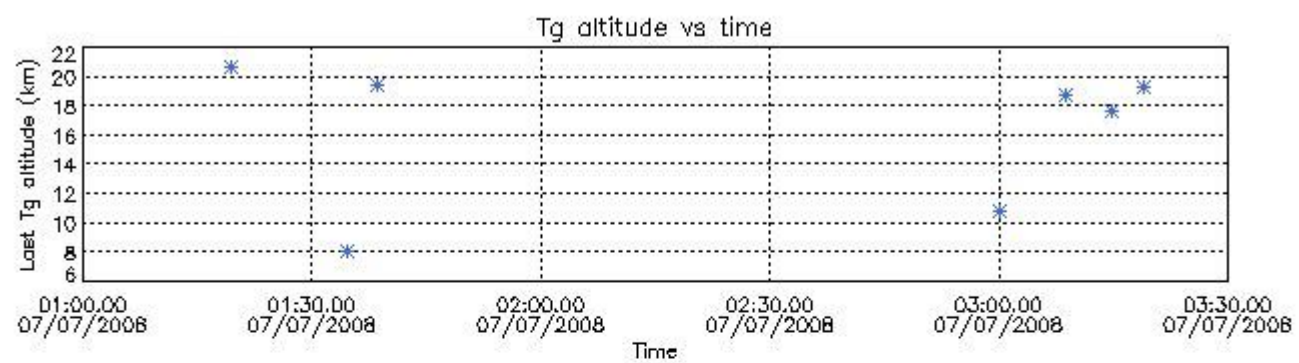
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.356	20.575	NaN
St. deviation:	4.8990	5.3693	NaN
Maximum:	20.632	28.137	NaN
Minimum:	7.9948	4.1408	NaN
Number of data:	7.0000	27.000	NaN

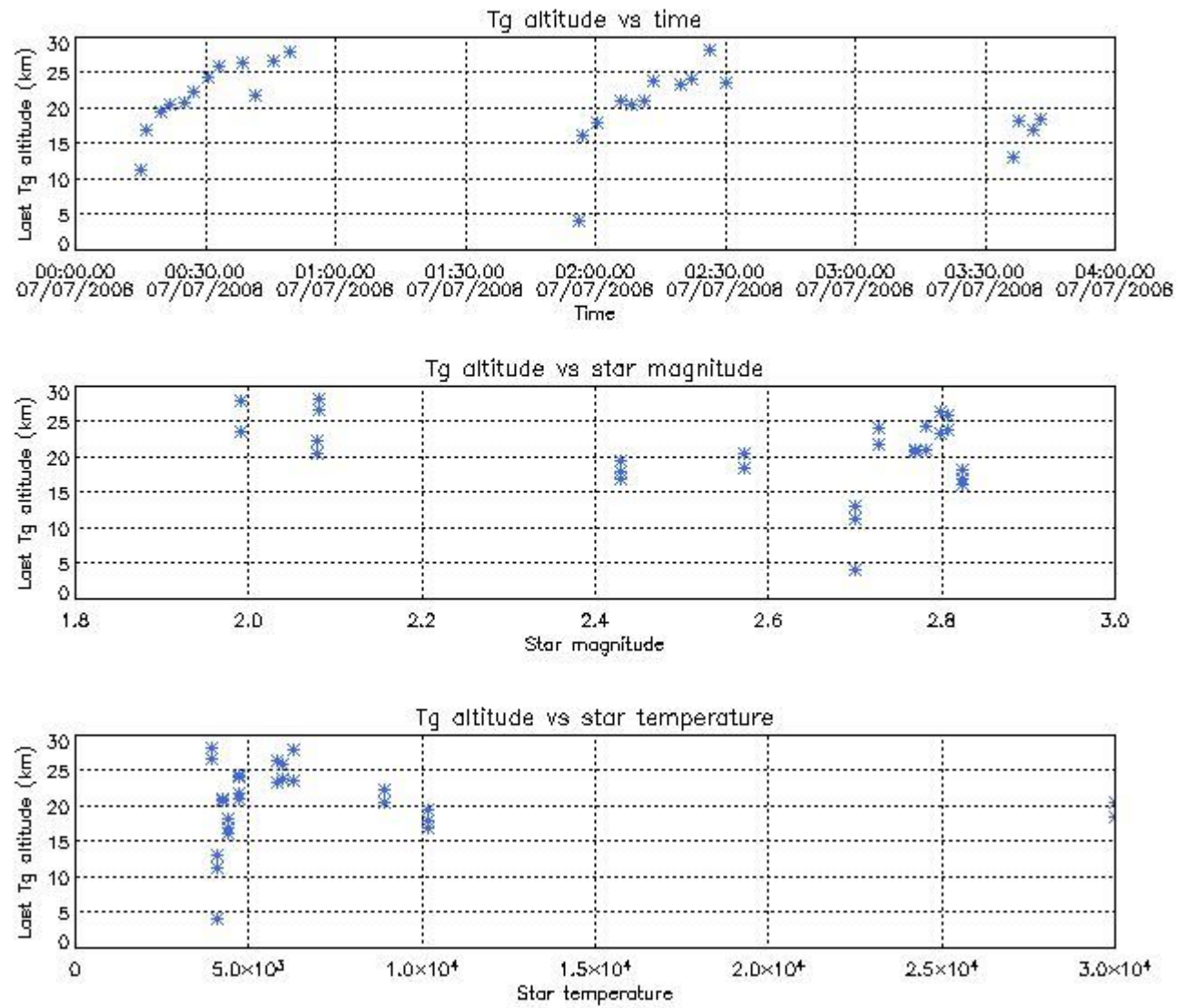
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

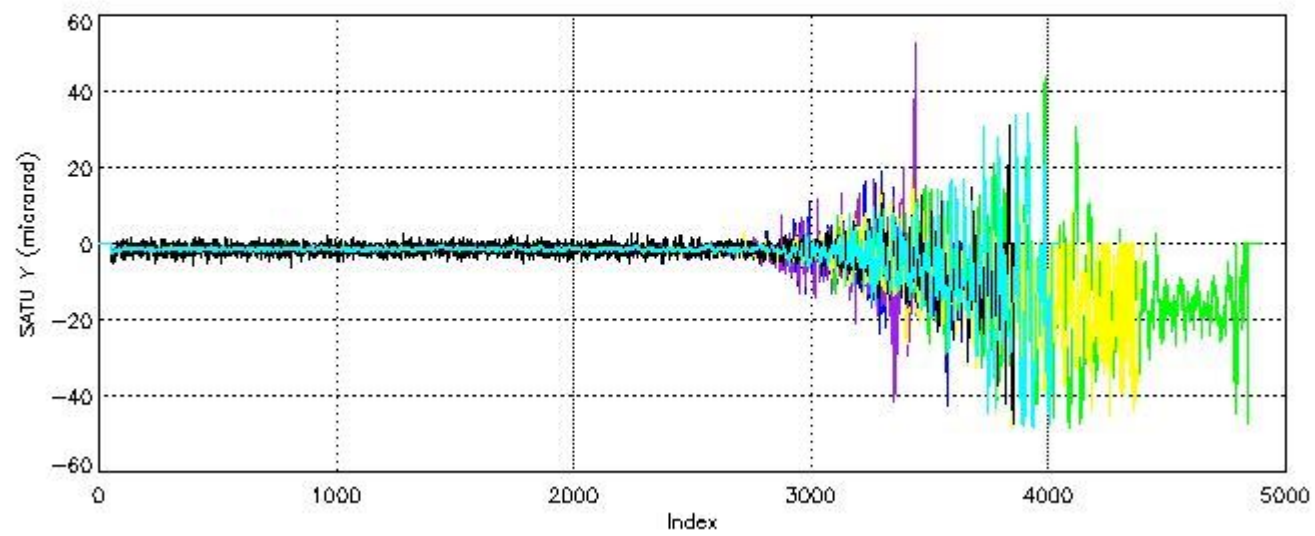
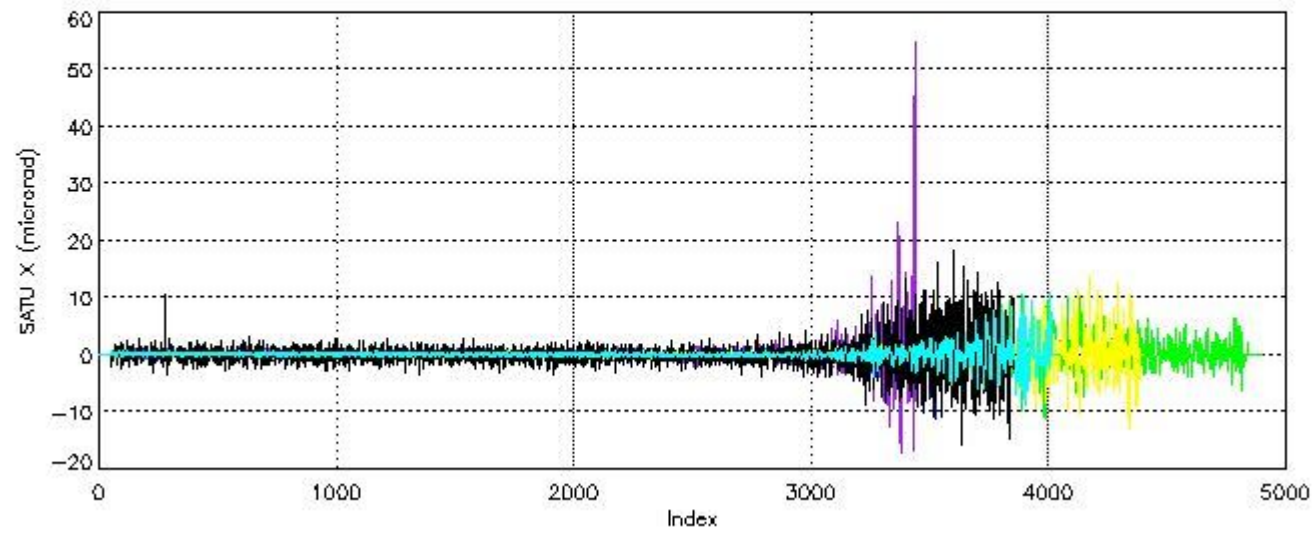


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function 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 frequency 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:	0.043967	-1.4830	0.053032	-1.4480
St. deviation:	0.50192	0.73197	0.69963	0.85719
Maximum:	10.500	1.7000	4.0000	2.6000
Minimum:	-3.4000	-6.5000	-4.0000	-5.7000

Number of data:	6150.0	6150.0	22200.	22200.
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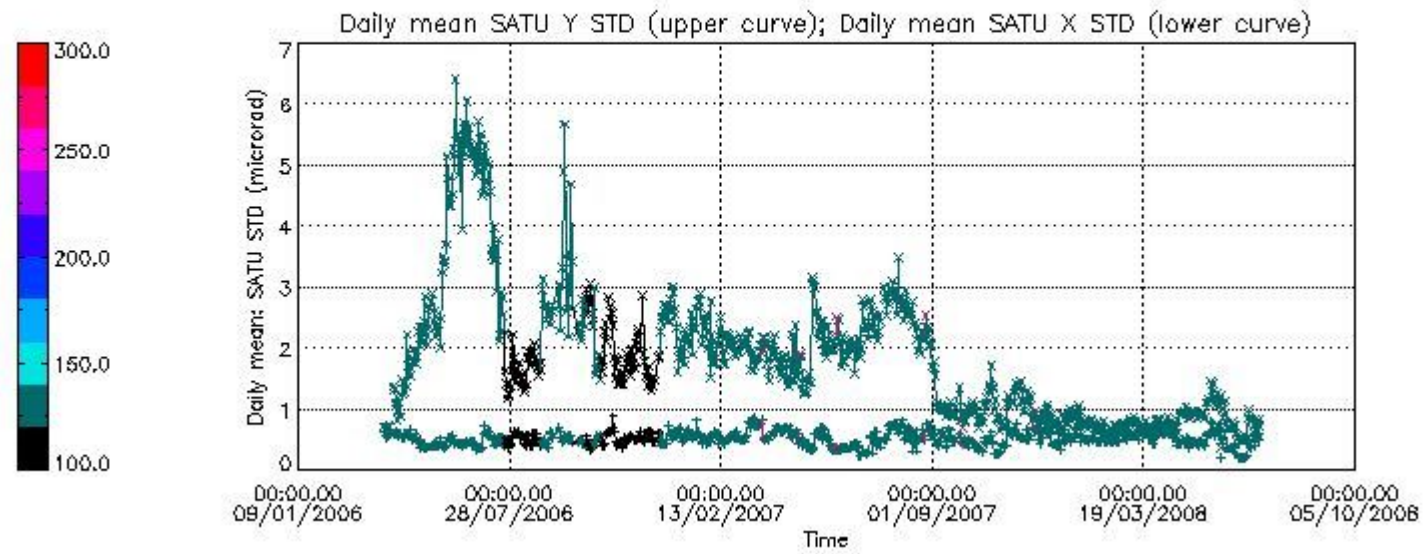
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

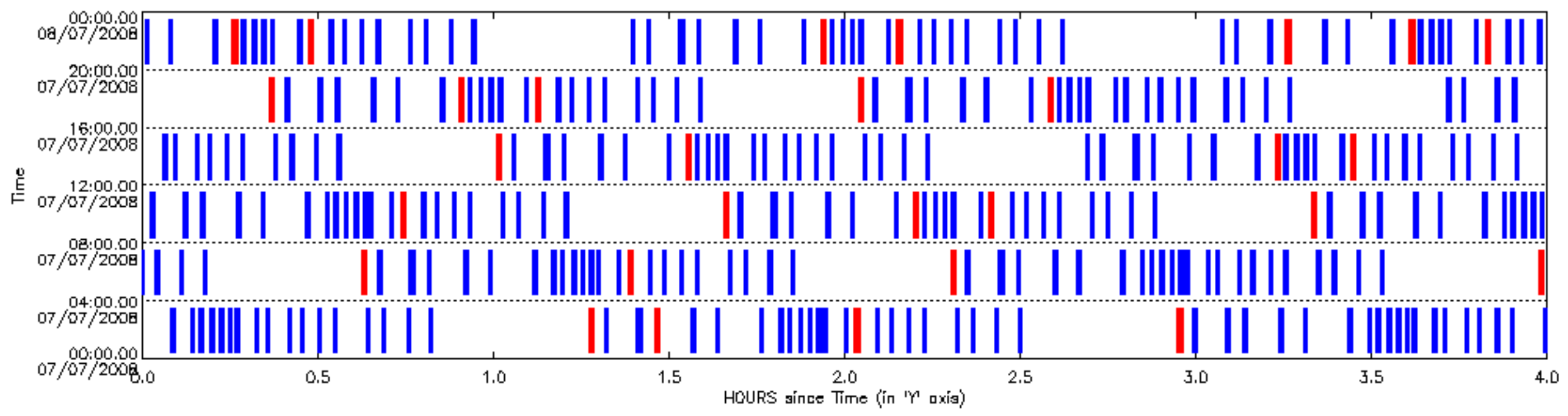
Lower curve: STD of SATU X axis

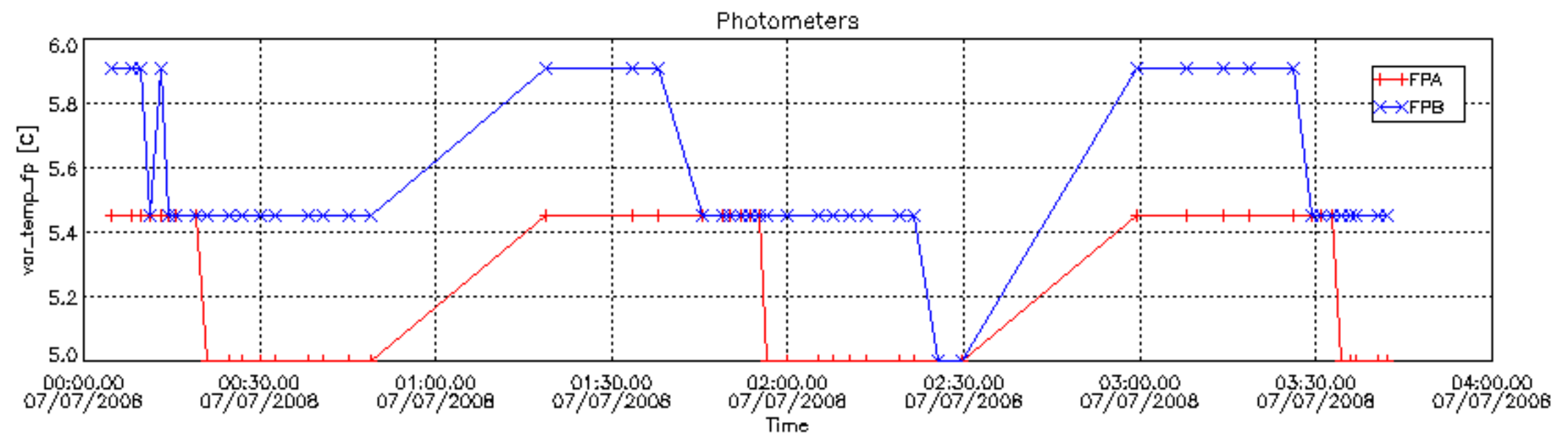
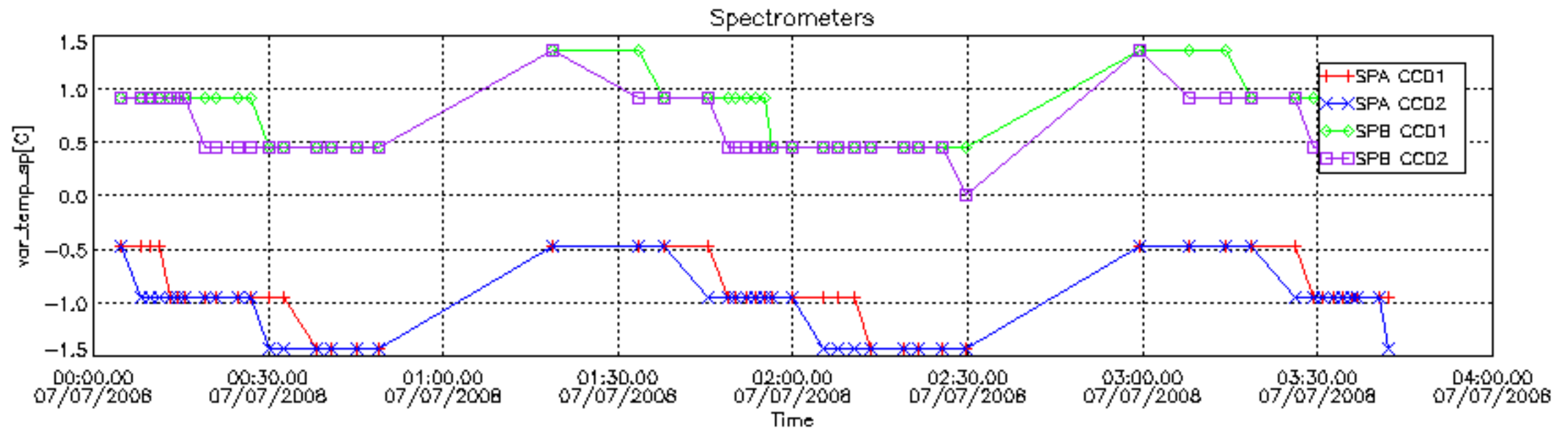


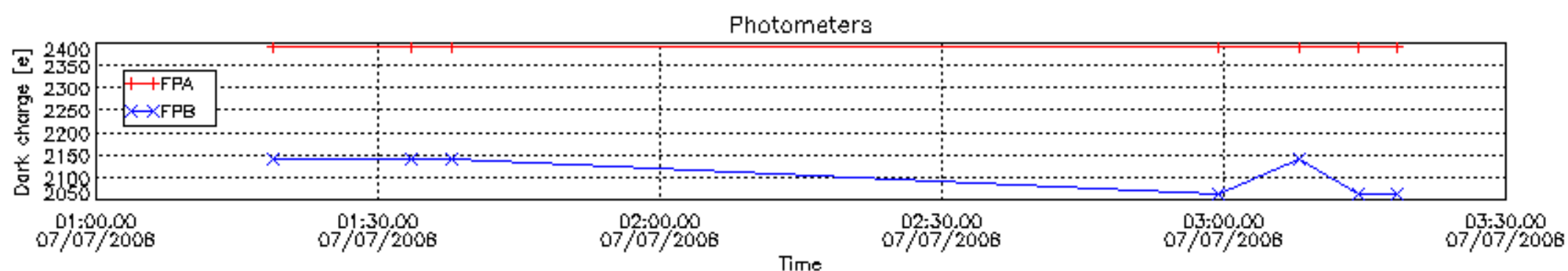
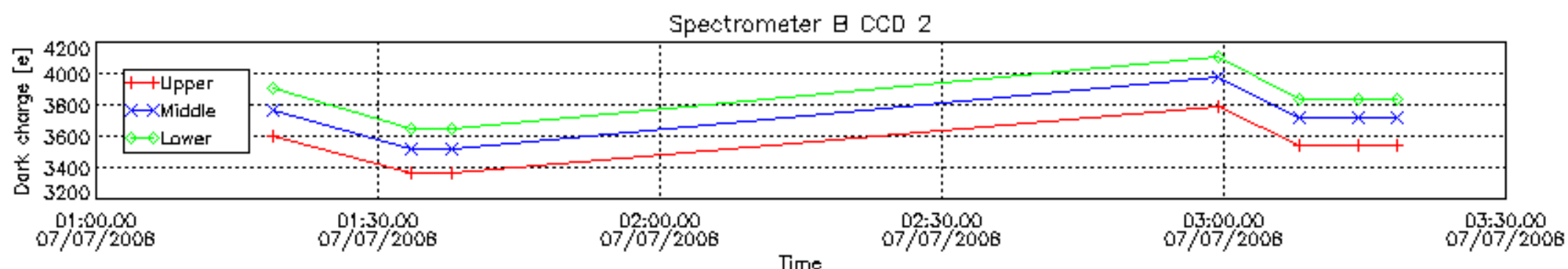
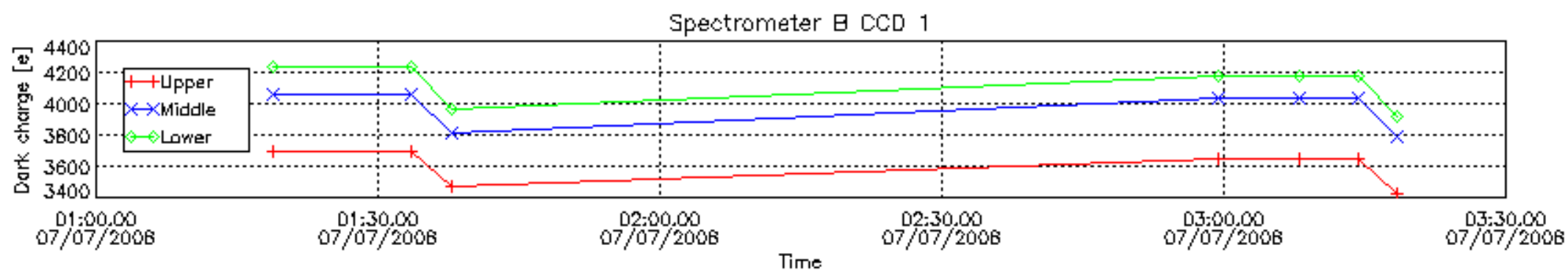
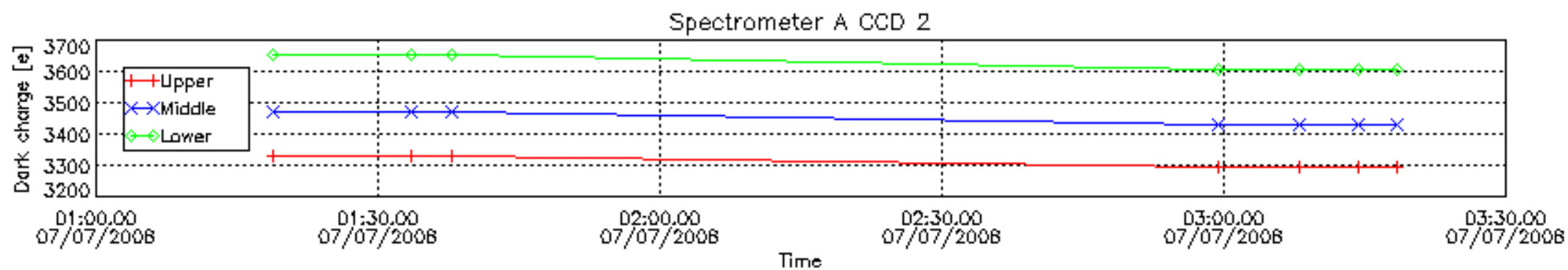
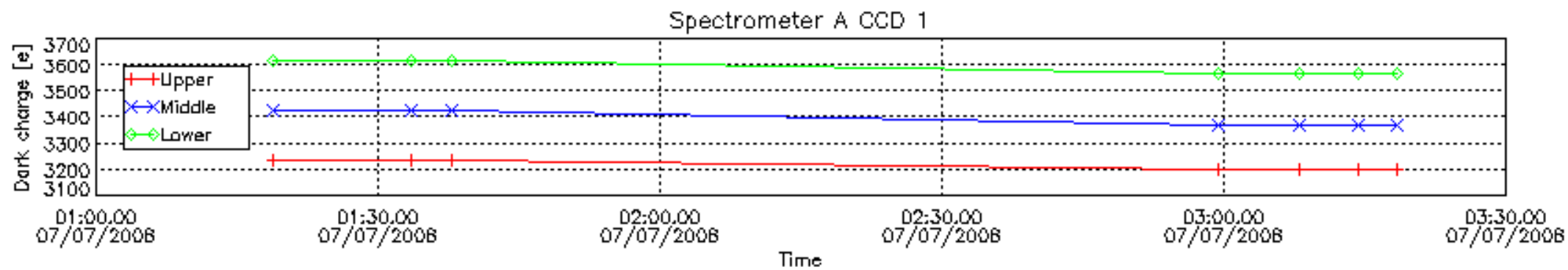
8. Auxiliary Data Files used for the production reported in section 2.4

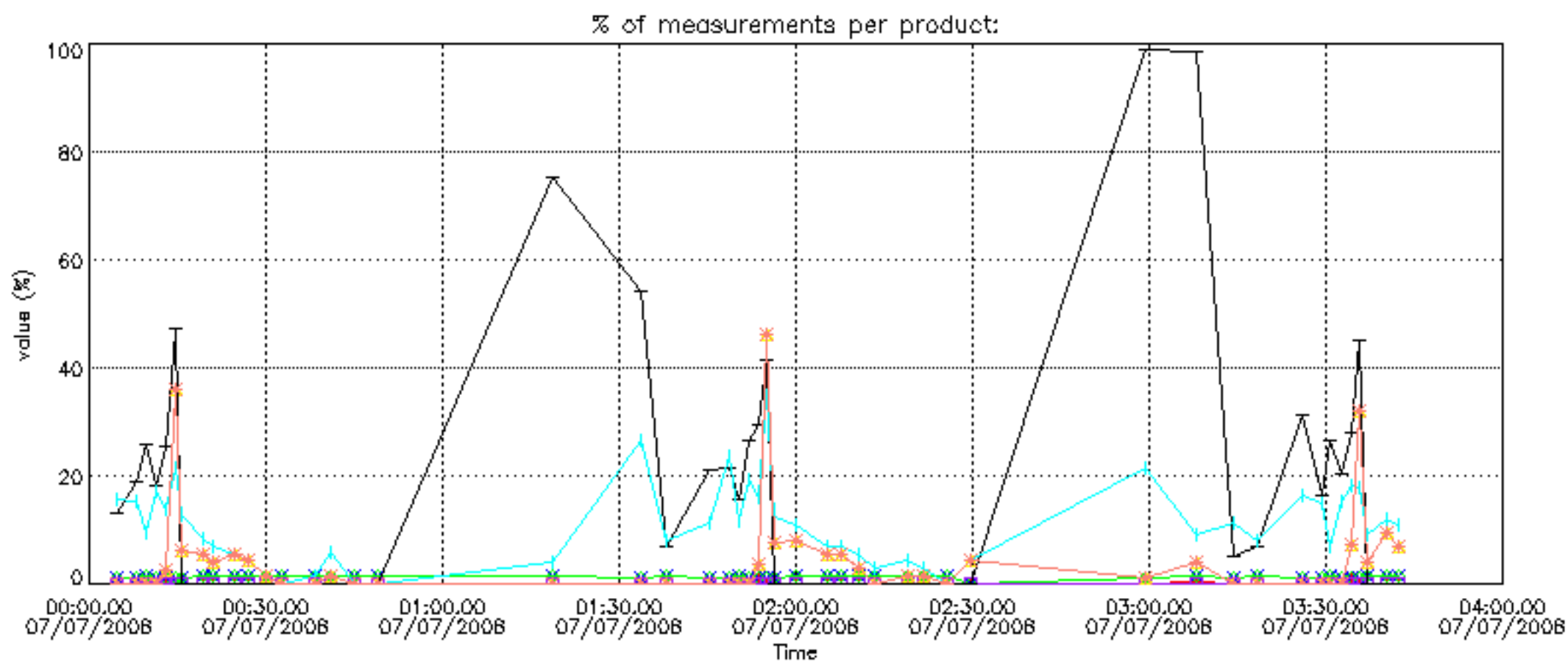
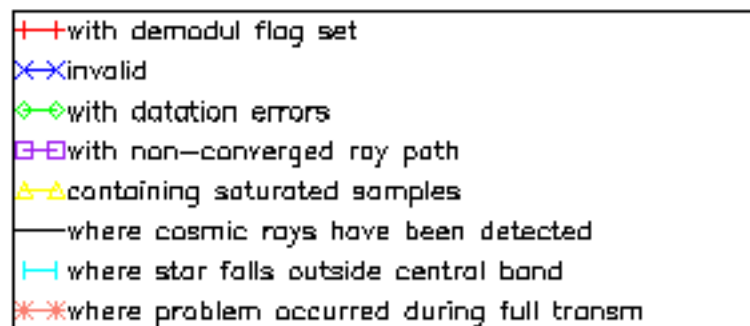
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	07-JUL-2008 00:04:45
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080630_090115_20080628_000000_20100101_000000	1	07-JUL-2008 00:04:45
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	07-JUL-2008 00:04:45
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-JUL-2008 00:04:45
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	07-JUL-2008 00:04:45
ECMWF_FILE	AUX_ECF_AXNECM20080706_072127_20080706_210000_20080707_090000	1	07-JUL-2008 00:04:45
OPTIONAL_ECMWF_FILE	MISSING	1	07-JUL-2008 00:04:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080706_204359_000038262070_00086_33206_5896.N1	1	07-JUL-2008 00:04:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080706_233400_000057382070_00087_33207_5776.N1	18	07-JUL-2008 01:18:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080707_011457_000044632070_00088_33208_5777.N1	37	07-JUL-2008 02:59:23

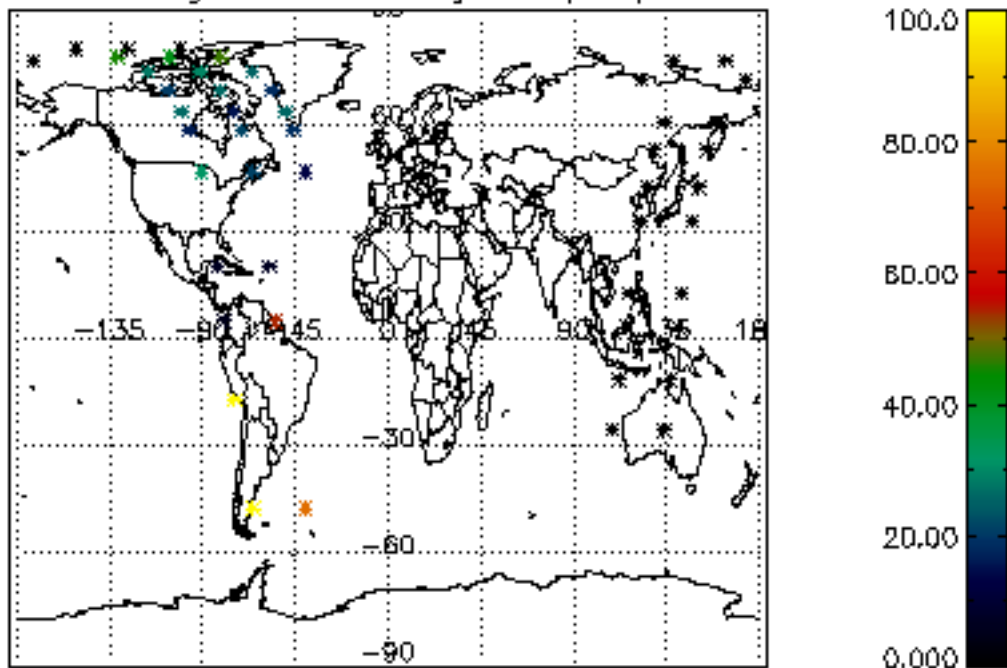




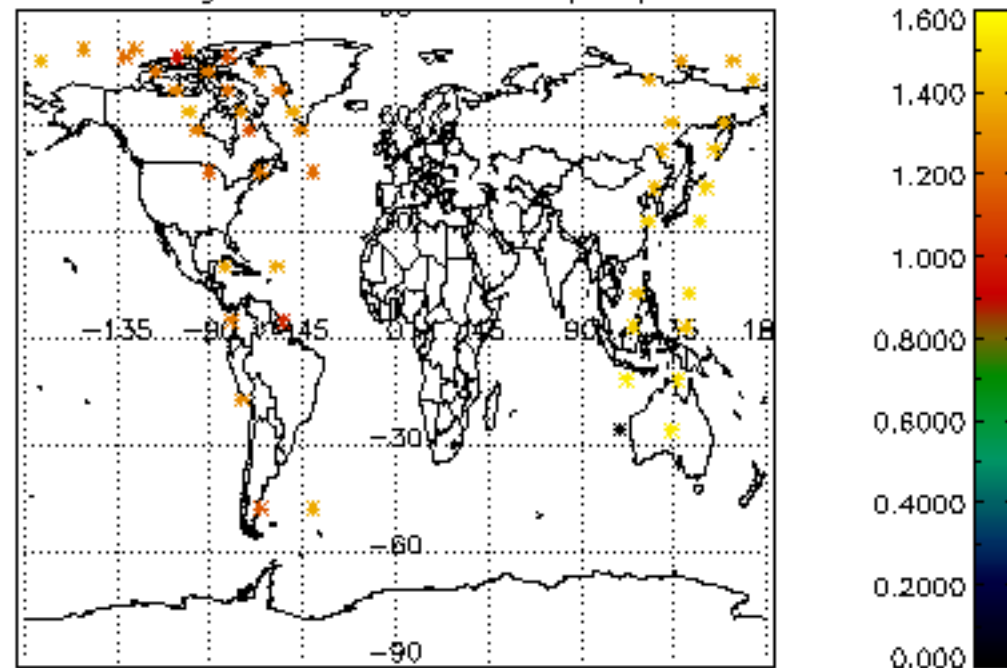




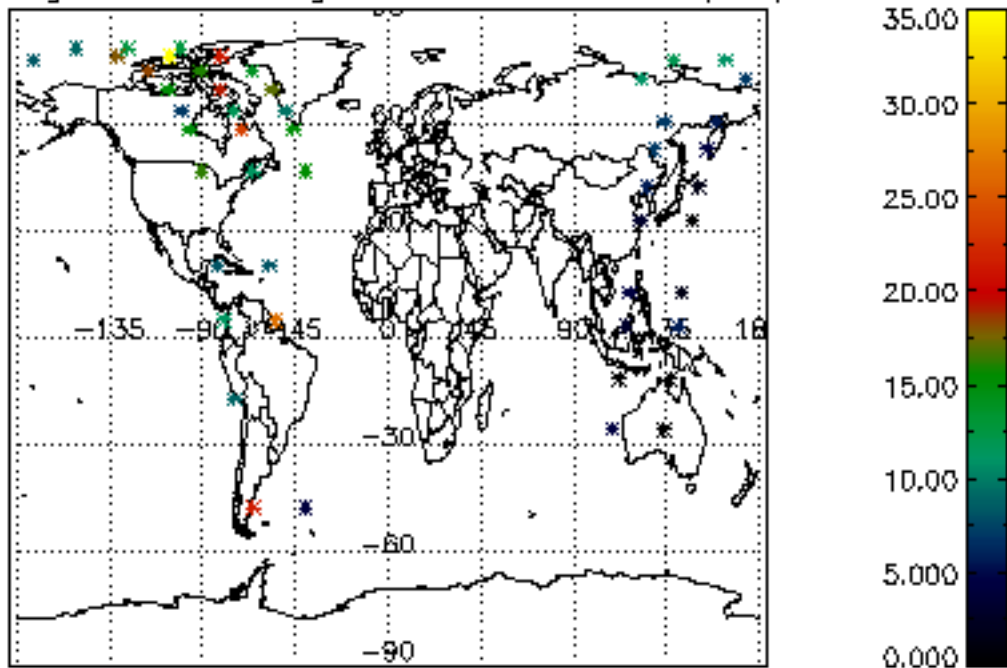
Percentage of cosmic ray hits per profile



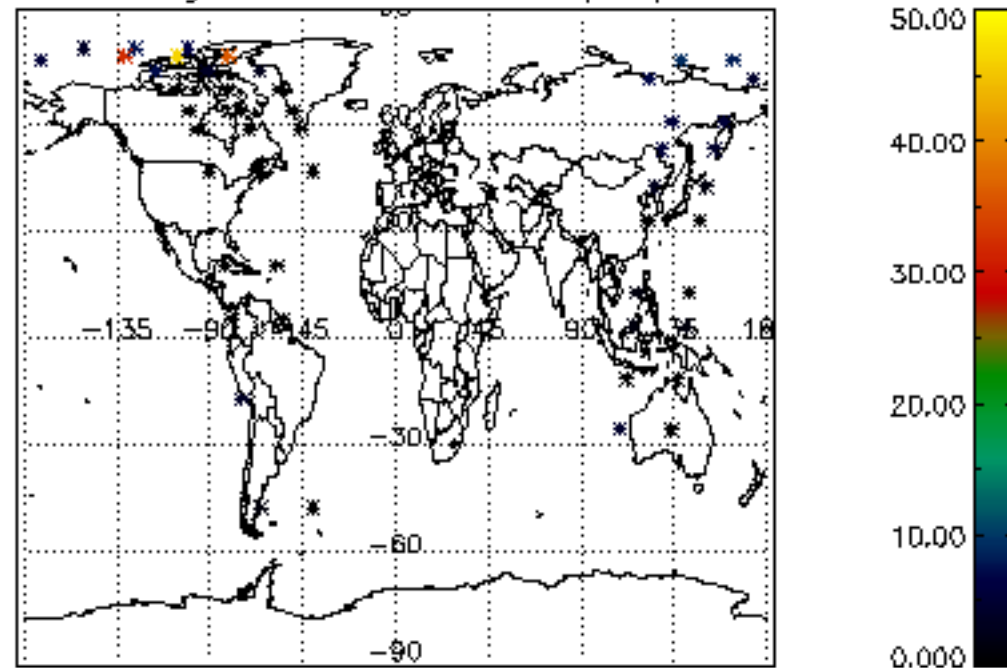
Percentage of datation errors per profile



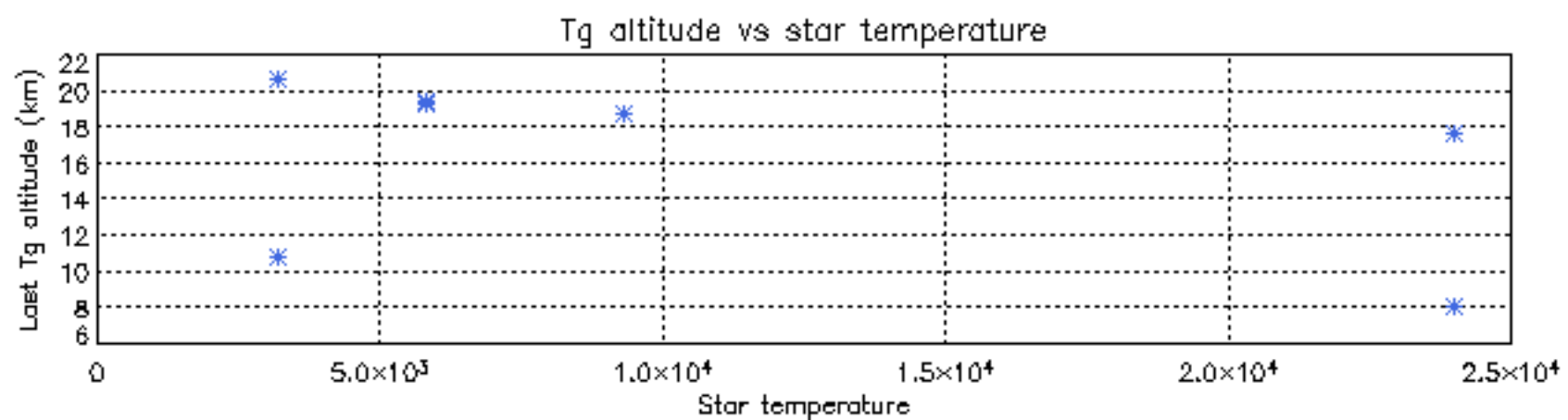
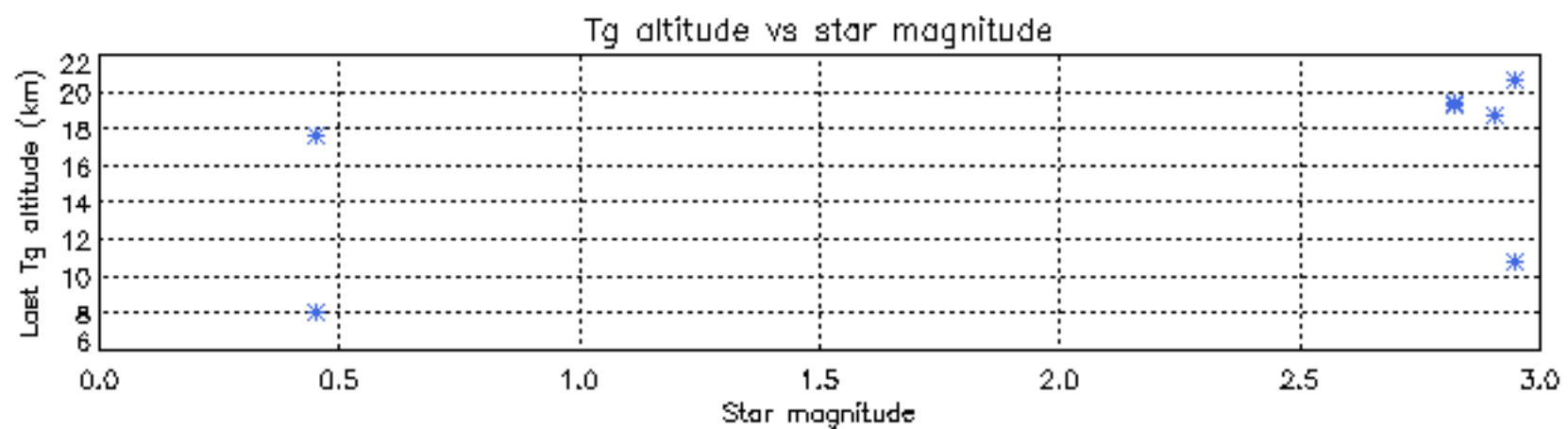
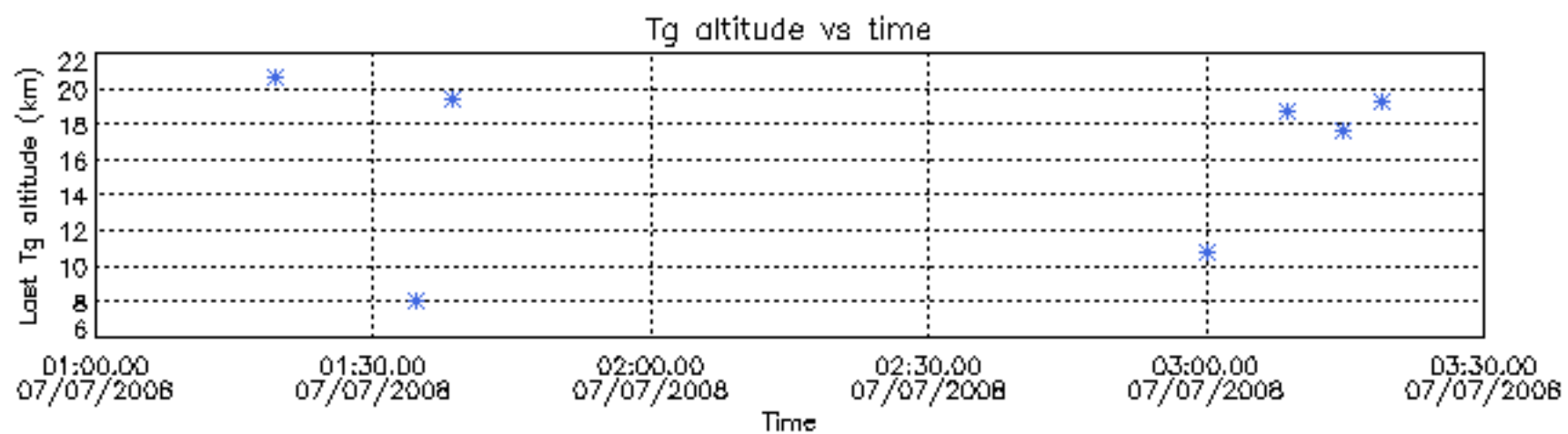
Percentage of star falling outside central band per profile



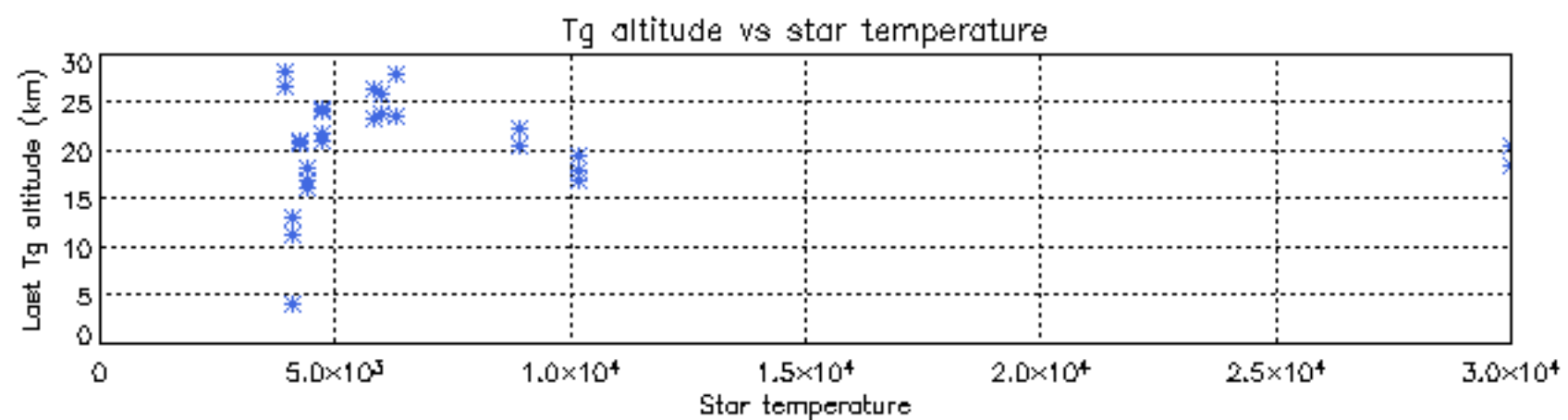
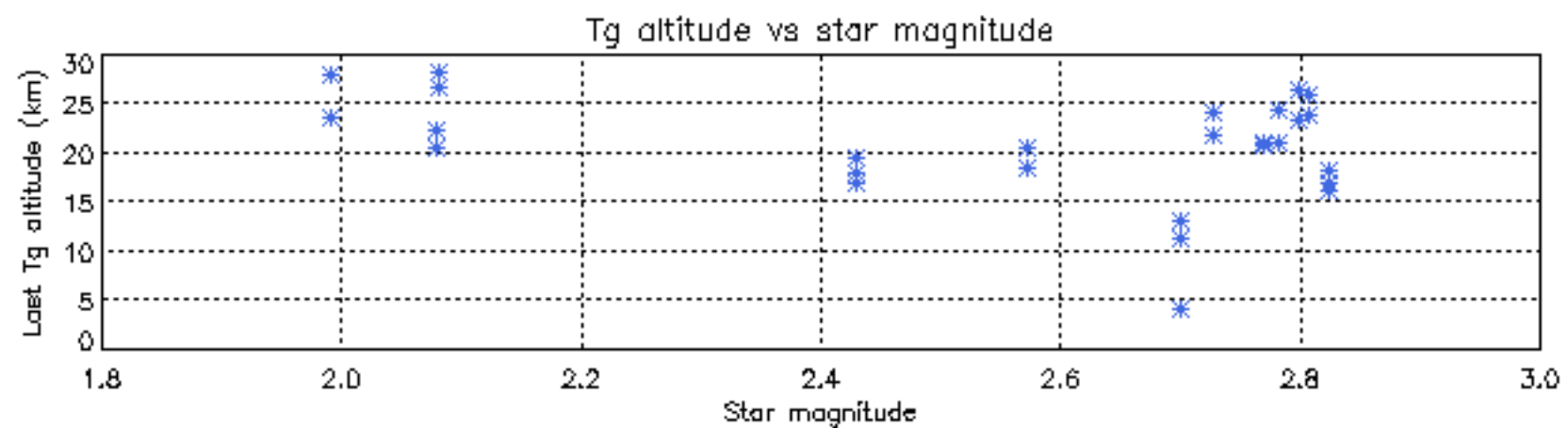
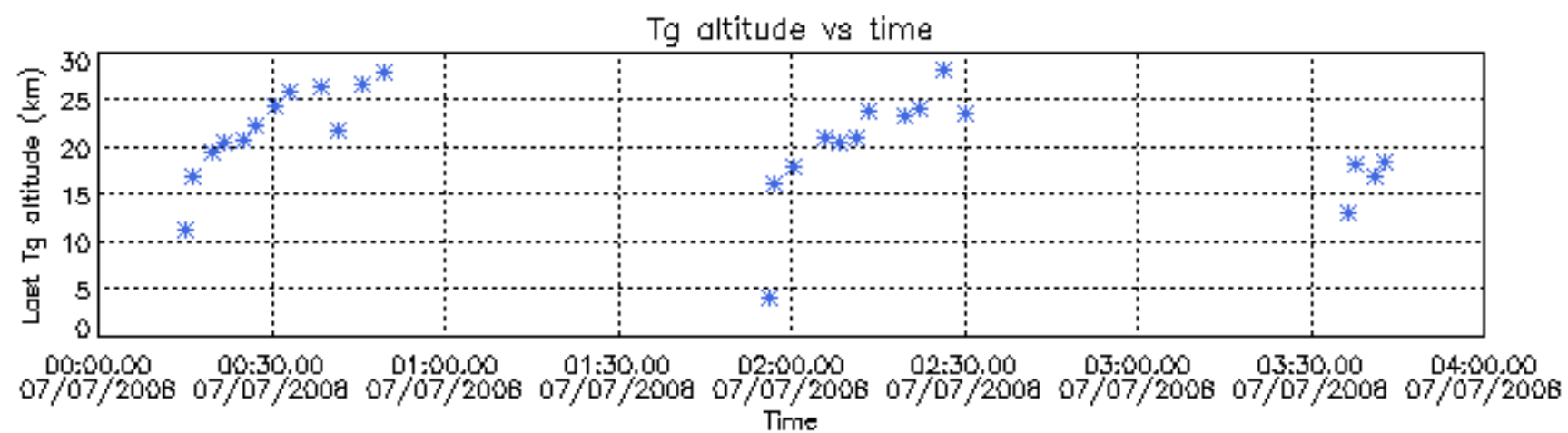
Percentage of saturation errors per profile

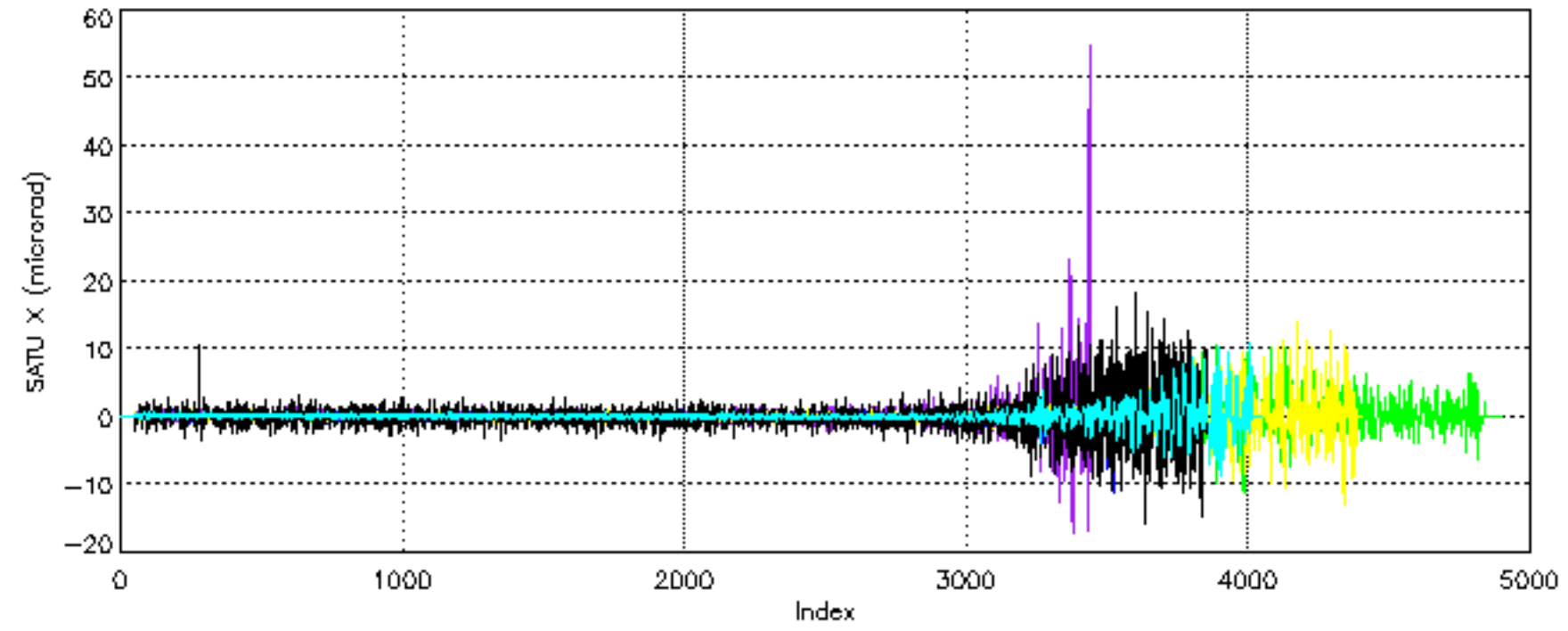


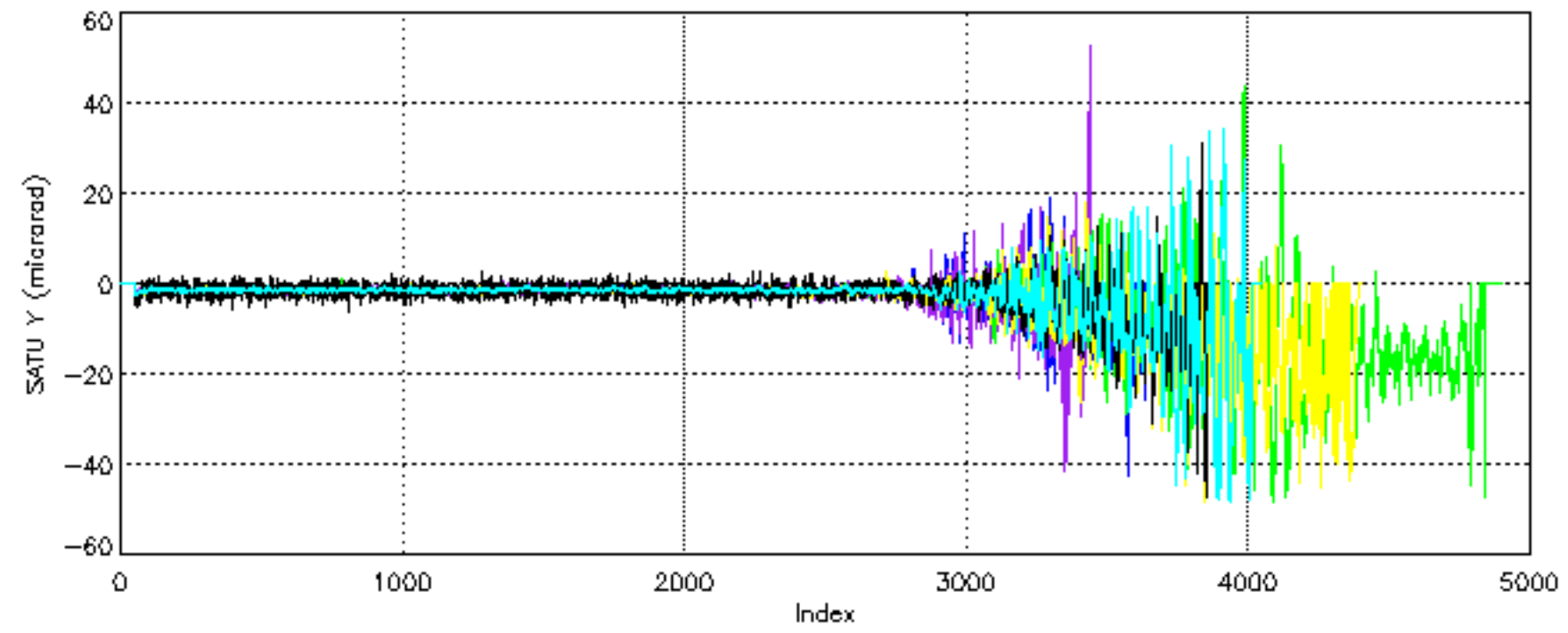
Tangent altitude at which the star is lost

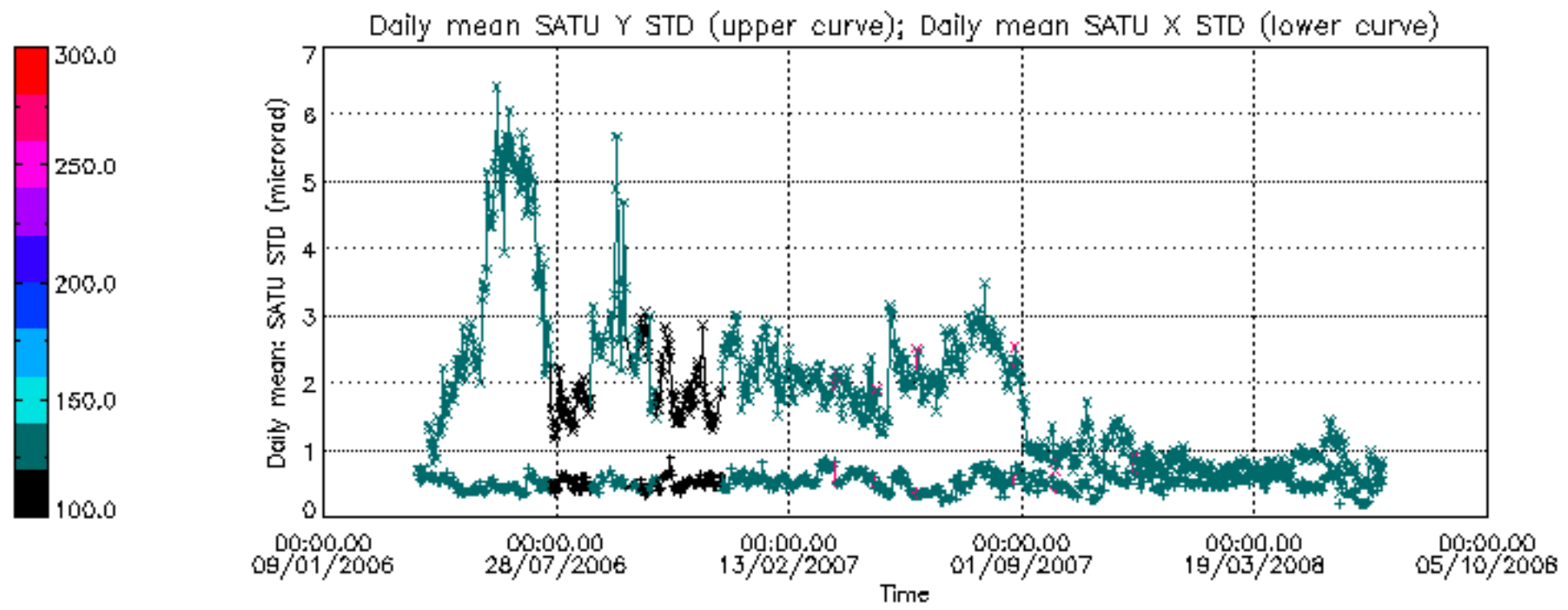


Tangent altitude at which the star is lost









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 3; 1274.5; 01-JUL-2008 20:08:33; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33134
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 6; 1751.3; 01-JUL-2008 20:16:29; Bright; 25.0; 98; 13Zet Oph ; 2.57; 30000;occ; 50; 0;33134
 7; 1982.1; 01-JUL-2008 20:20:20; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;33134
 8; 2121.6; 01-JUL-2008 20:22:40; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33134
 9; 2286.4; 01-JUL-2008 20:25:24; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33134
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 11; 2806.8; 01-JUL-2008 20:34:05; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33134
 12; 2953.3; 01-JUL-2008 20:36:31; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33134
 13; 3194.0; 01-JUL-2008 20:40:32; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;33134
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 15; 4062.2; 01-JUL-2008 20:55:00; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;33134
 16; 4166.6; 01-JUL-2008 20:56:45; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;33134
 17; 4295.5; 01-JUL-2008 20:58:54; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;33134
 18; 4582.1; 01-JUL-2008 21:03:40; Dark ; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;33134
 19; 4985.0; 01-JUL-2008 21:10:23; Dark ; 43.0; 94; 92Alp Cet ; 2.53; 3100;occ; 86; 0;33134
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 6; 494.1; 01-JUL-2008 21:36:08; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33135
 7; 754.0; 01-JUL-2008 21:40:28; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;33135
 8; 1066.4; 01-JUL-2008 21:45:40; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;33135
 9; 1175.0; 01-JUL-2008 21:47:29; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;33135
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 5; 494.6; 01-JUL-2008 23:16:44; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33136
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 5; 1174.1; 01-JUL-2008 10:03:17; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33128
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 4; 2122.5; 01-JUL-2008 10:19:05; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33128
 5; 2286.2; 01-JUL-2008 10:21:49; Bright; 33.5; 127; 27Bet Her ; 2.78; 4700;occ; 67; 0;33128
 6; 2449.8; 01-JUL-2008 10:24:32; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33128
 7; 2808.4; 01-JUL-2008 10:30:31; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33128
 8; 2953.8; 01-JUL-2008 10:32:56; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;33128
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 3; 2289.9; 03-JUL-2008 07:38:03; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33155
 4; 2451.6; 03-JUL-2008 07:40:44; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;33155
 5; 2804.1; 03-JUL-2008 07:46:37; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;33155
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 7; 3197.2; 03-JUL-2008 07:53:10; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;33155
 8; 3445.3; 03-JUL-2008 07:57:18; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33155
 9; 4060.7; 03-JUL-2008 08:07:34; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;33155
 10; 4167.3; 03-JUL-2008 08:09:20; Bright; 54.0; 175; 39Del Per ; 3.01; 19400;occ; 108; 0;33155
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 12; 5212.0; 03-JUL-2008 08:26:45; Dark ; 43.5; 165; 34Gam Eri ; 2.95; 3200;occ; 87; 0;33155
 13; 5548.5; 03-JUL-2008 08:32:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33155
 14; 5722.1; 03-JUL-2008 08:35:15; Dark ; 36.5; 157; The1Eri ; 2.91; 9300;occ; 73; 0;33155
 15; 6091.5; 03-JUL-2008 08:41:24; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;33155
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 17; 6542.5; 03-JUL-2008 08:48:55; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33155
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 19; 7106.2; 03-JUL-2008 08:58:19; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;33155
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22; 7400.5; 03-JUL-2008 09:03:13; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;33155
23; 7472.1; 03-JUL-2008 09:04:25; Bright; 54.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 108; 0;33155
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 4; 2451.6; 03-JUL-2008 09:21:20; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33156
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 8; 3445.3; 03-JUL-2008 09:37:54; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33156
 9; 4060.6; 03-JUL-2008 09:48:09; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;33156
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 22; 7106.7; 03-JUL-2008 14:00:07; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;33158
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16;	5160.7;	29-JUL-2008	18:12:15;	Dark	;	39.5;	7;	19Bet Ori	;	0.10;	14000;occ;	79;	0;	33533
17;	5293.6;	29-JUL-2008	18:14:28;	Dark	;	38.5;	101;	11Alp Lep	;	2.58;	7000;occ;	77;	0;	33533
18;	5714.4;	29-JUL-2008	18:21:28;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	33533
19;	5985.2;	29-JUL-2008	18:25:59;	Dark	;	48.0;	157;	The1Eri	;	2.91;	9300;occ;	96;	0;	33533
20;	6323.6;	29-JUL-2008	18:31:38;	Dark	;	45.0;	9;	Alp Eri	;	0.45;	24000;occ;	90;	0;	33533
21;	6741.8;	29-JUL-2008	18:38:36;	Dark	;	39.5;	148;	Alp Tuc	;	2.88;	4100;occ;	79;	0;	33533
22;	6940.4;	29-JUL-2008	18:41:54;	Dark	;	49.5;	31;	Alp Gru	;	1.73;	15200;occ;	99;	0;	33533

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2;	1551.6;	29-JUL-2008	18:52:42;	Bright;	;	37.5;	155;	41Pi Sgr	;	2.90;	6600;occ;	75;	0;	33534
3;	2061.9;	29-JUL-2008	19:01:12;	Bright;	;	37.5;	11;	53Alp Aql	;	0.76;	8000;occ;	75;	0;	33534
4;	2143.9;	29-JUL-2008	19:02:34;	Bright;	;	35.5;	168;	17Zet Aql	;	2.99;	11000;occ;	71;	0;	33534
5;	2568.5;	29-JUL-2008	19:09:39;	Bright;	;	37.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	74;	0;	33534
6;	2662.3;	29-JUL-2008	19:11:12;	Bright;	;	41.5;	66;	37Gam Cyg	;	2.21;	5900;occ;	83;	0;	33534
7;	2793.0;	29-JUL-2008	19:13:23;	Bright;	;	25.0;	69;	33Gam Dra	;	2.23;	3800;occ;	50;	0;	33534
8;	3103.7;	29-JUL-2008	19:18:34;	Bright;	;	40.5;	89;	5Alp Cep	;	2.45;	8000;occ;	81;	0;	33534
9;	3441.5;	29-JUL-2008	19:24:12;	Bright;	;	36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	33534
10;	4200.4;	29-JUL-2008	19:36:50;	Bright;	;	42.5;	6;	13Alp Aur	;	0.08;	3400;occ;	85;	0;	33534
11;	4510.1;	29-JUL-2008	19:42:00;	Dark	;	48.0;	28;	12Bet Tau	;	1.65;	15200;occ;	96;	0;	33534
12;	4633.5;	29-JUL-2008	19:44:04;	Dark	;	37.5;	176;	23Zet Tau	;	3.02;	22000;occ;	75;	0;	33534
13;	4779.2;	29-JUL-2008	19:46:29;	Dark	;	48.5;	13;	87Alp Tau	;	0.87;	3800;occ;	97;	0;	33534
14;	4900.7;	29-JUL-2008	19:48:31;	Dark	;	39.5;	27;	24Gam Ori	;	1.64;	26000;occ;	79;	0;	33534
15;	5015.7;	29-JUL-2008	19:50:26;	Dark	;	37.0;	30;	46Eps Ori	;	1.69;	30000;occ;	74;	0;	33534
16;	5161.1;	29-JUL-2008	19:52:51;	Dark	;	39.0;	7;	19Bet Ori	;	0.10;	14000;occ;	78;	0;	33534
17;	5293.9;	29-JUL-2008	19:55:04;	Dark	;	42.0;	101;	11Alp Lep	;	2.58;	7000;occ;	84;	0;	33534
18;	5715.0;	29-JUL-2008	20:02:05;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	33534
19;	5986.0;	29-JUL-2008	20:06:36;	Dark	;	46.5;	157;	The1Eri	;	2.91;	9300;occ;	93;	0;	33534
20;	6324.2;	29-JUL-2008	20:12:14;	Dark	;	53.5;	9;	Alp Eri	;	0.45;	24000;occ;	107;	0;	33534
21;	6742.2;	29-JUL-2008	20:19:12;	Dark	;	40.5;	148;	Alp Tuc	;	2.88;	4100;occ;	81;	0;	33534
22;	6940.8;	29-JUL-2008	20:22:31;	Dark	;	44.0;	31;	Alp Gru	;	1.73;	15200;occ;	88;	0;	33534

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3;	-49.0;	29-JUL-2008	21:47:13;	Dark	;	46.5;	157;	The1Eri	;	2.91;	9300;occ;	93;	0;	33535
4;	288.9;	29-JUL-2008	21:52:51;	Dark	;	45.5;	9;	Alp Eri	;	0.45;	24000;occ;	91;	0;	33536
5;	706.7;	29-JUL-2008	21:59:49;	Dark	;	39.0;	148;	Alp Tuc	;	2.88;	4100;occ;	78;	0;	33536
6;	905.4;	29-JUL-2008	22:03:07;	Dark	;	51.5;	31;	Alp Gru	;	1.73;	15200;occ;	103;	0;	33536
7;	1095.1;	29-JUL-2008	22:06:17;	Dark	;	45.5;	172;	Gam Gru	;	3.00;	13100;occ;	91;	0;	33536
8;	1552.0;	29-JUL-2008	22:13:54;	Bright;	;	36.5;	155;	41Pi Sgr	;	2.90;	6600;occ;	73;	0;	33536
9;	2061.6;	29-JUL-2008	22:22:24;	Bright;	;	37.5;	11;	53Alp Aql	;	0.76;	8000;occ;	75;	0;	33536
10;	2143.9;	29-JUL-2008	22:23:46;	Bright;	;	35.0;	168;	17Zet Aql	;	2.99;	11000;occ;	70;	0;	33536
11;	2568.5;	29-JUL-2008	22:30:50;	Bright;	;	36.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	72;	0;	33536
12;	2661.4;	29-JUL-2008	22:32:23;	Bright;	;	39.0;	66;	37Gam Cyg	;	2.21;	5900;occ;	78;	0;	33536
13;	3102.7;	29-JUL-2008	22:39:45;	Bright;	;	39.0;	89;	5Alp Cep	;	2.45;	8000;occ;	78;	0;	33536
14;	3441.4;	29-JUL-2008	22:45:23;	Bright;	;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	33536
15;	4200.4;	29-JUL-2008	22:58:02;	Bright;	;	55.0;	6;	13Alp Aur	;	0.08;	3400;occ;	110;	0;	33536
16;	4510.4;	29-JUL-2008	23:03:12;	Dark	;	39.5;	28;	12Bet Tau	;	1.65;	15200;occ;	79;	0;	33536
17;	4633.9;	29-JUL-2008	23:05:16;	Dark	;	38.5;	176;	23Zet Tau	;	3.02;	22000;occ;	77;	0;	33536
18;	4779.8;	29-JUL-2008	23:07:42;	Dark	;	54.5;	13;	87Alp Tau	;	0.87;	3800;occ;	109;	0;	33536
19;	4901.3;	29-JUL-2008	23:09:43;	Dark	;	38.5;	27;	24Gam Ori	;	1.64;	26000;occ;	77;	0;	33536
20;	5016.2;	29-JUL-2008	23:11:38;	Dark	;	38.5;	30;	46Eps Ori	;	1.69;	30000;occ;	77;	0;	33536
21;	5161.7;	29-JUL-2008	23:14:04;	Dark	;	48.0;	7;	19Bet Ori	;	0.10;	14000;occ;	96;	0;	33536

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3; -48.0; 29-JUL-2008 23:27:50; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;33536
4; 289.6; 29-JUL-2008 23:33:27; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;33537
5; 707.1; 29-JUL-2008 23:40:25; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;33537
6; 905.9; 29-JUL-2008 23:43:44; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;33537
7; 1095.5; 29-JUL-2008 23:46:53; Dark ; 45.0; 172; Gam Gru ; 3.00; 13100;occ; 90; 0;33537
8; 1552.2; 29-JUL-2008 23:54:30; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;33537
9; 2061.5; 30-JUL-2008 00:02:59; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;33537
10; 2144.0; 30-JUL-2008 00:04:22; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;33537
11; 2568.5; 30-JUL-2008 00:11:26; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;33537
12; 2660.9; 30-JUL-2008 00:12:59; Bright; 41.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 83; 0;33537
13; 3102.2; 30-JUL-2008 00:20:20; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;33537
14; 3441.3; 30-JUL-2008 00:25:59; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33537
15; 4200.5; 30-JUL-2008 00:38:38; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;33537
16; 4510.6; 30-JUL-2008 00:43:48; Dark ; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;33537
17; 4634.1; 30-JUL-2008 00:45:52; Dark ; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;33537
18; 4780.2; 30-JUL-2008 00:48:18; Dark ; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;33537
19; 4901.6; 30-JUL-2008 00:50:19; Dark ; 41.0; 27; 24Gam Ori ; 1.64; 26000;occ; 82; 0;33537
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21; 5162.1; 30-JUL-2008 00:54:40; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;33537
22; 5294.8; 30-JUL-2008 00:56:53; Dark ; 41.0; 101; 11Alp Lep ; 2.58; 7000;occ; 82; 0;33537
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4; 290.3; 30-JUL-2008 01:14:04; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;33538
5; 707.6; 30-JUL-2008 01:21:01; Dark ; 48.5; 148; Alp Tuc ; 2.88; 4100;occ; 97; 0;33538
6; 906.4; 30-JUL-2008 01:24:20; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;33538
7; 1095.8; 30-JUL-2008 01:27:29; Dark ; 46.0; 172; Gam Gru ; 3.00; 13100;occ; 92; 0;33538
8; 1552.2; 30-JUL-2008 01:35:06; Bright; 36.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 72; 0;33538
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10; 2144.0; 30-JUL-2008 01:44:58; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;33538
11; 2568.6; 30-JUL-2008 01:52:02; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;33538
12; 2660.5; 30-JUL-2008 01:53:34; Bright; 41.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 82; 0;33538
13; 3101.8; 30-JUL-2008 02:00:55; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;33538
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3; -1401.6; 30-JUL-2008 02:26:28; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;33538
4; -1255.3; 30-JUL-2008 02:28:54; Dark ; 61.5; 13; 87Alp Tau ; 0.87; 3800;occ; 123; 0;33538
5; -1134.0; 30-JUL-2008 02:30:56; Dark ; 41.5; 27; 24Gam Ori ; 1.64; 26000;occ; 83; 0;33538
6; -1019.0; 30-JUL-2008 02:32:51; Dark ; 38.0; 30; 46Eps Ori ; 1.69; 30000;occ; 76; 0;33538
7; -873.2; 30-JUL-2008 02:35:16; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;33538
8; -318.3; 30-JUL-2008 02:44:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33538
9; -46.1; 30-JUL-2008 02:49:03; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;33538
10; 291.0; 30-JUL-2008 02:54:41; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33539
11; 708.1; 30-JUL-2008 03:01:38; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;33539
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13; 1096.4; 30-JUL-2008 03:08:06; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;33539
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19; 3101.4; 30-JUL-2008 03:41:31; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;33539
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4; -1255.0; 30-JUL-2008 04:09:30; Dark ; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;33539
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7; -872.8; 30-JUL-2008 04:15:53; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;33539

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11; 291.7; 30-JUL-2008 04:35:17; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33540
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
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15; 1552.5; 30-JUL-2008 04:56:18; Bright; 36.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 72; 0;33540
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19; 2659.7; 30-JUL-2008 05:14:45; Bright; 41.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 83; 0;33540
20; 3100.9; 30-JUL-2008 05:22:06; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;33540
21; 3441.4; 30-JUL-2008 05:27:47; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;33540
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12; 709.1; 30-JUL-2008 06:22:51; Dark ; 46.0; 148; Alp Tuc ; 2.88; 4100;occ; 92; 0;33541
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