

GOMOS Daily Report 06-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	08JUL2008 05:32:16
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (06JUL2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (07JUL2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

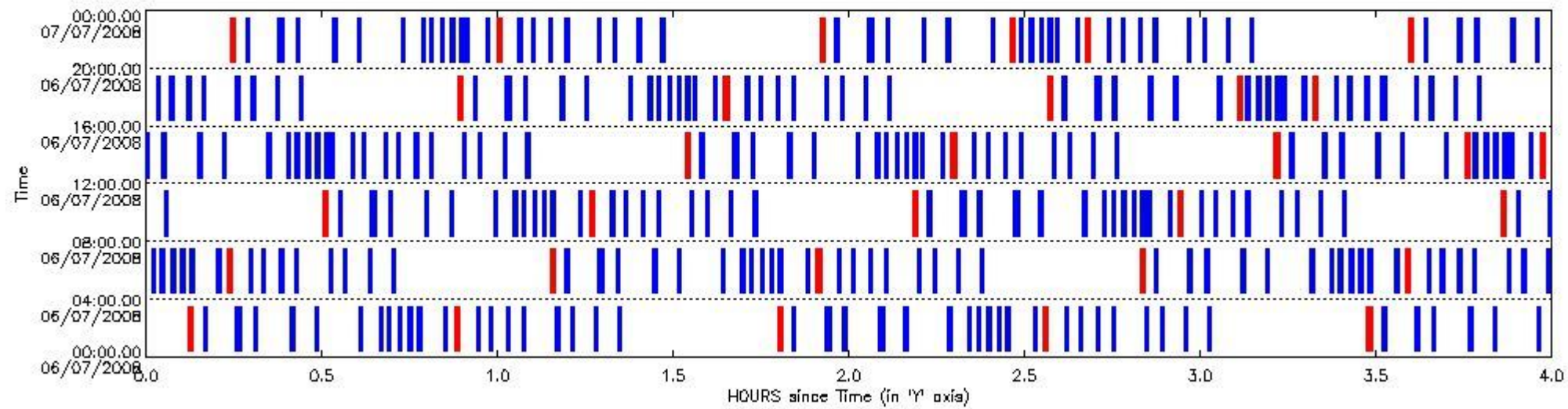
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
06-JUL-2008 00:07:12	19BetOri	7	33193
06-JUL-2008 00:52:34	13ZetOph	98	33194
06-JUL-2008 01:47:48	19BetOri	7	33194
06-JUL-2008 02:33:10	13ZetOph	98	33195
06-JUL-2008 03:28:24	19BetOri	7	33195
06-JUL-2008 04:13:46	13ZetOph	98	33196
06-JUL-2008 05:09:00	19BetOri	7	33196
06-JUL-2008 05:54:22	13ZetOph	98	33197
06-JUL-2008 06:49:36	19BetOri	7	33197
06-JUL-2008 07:34:59	13ZetOph	98	33198
06-JUL-2008 08:30:12	19BetOri	7	33198
06-JUL-2008 09:15:35	13ZetOph	98	33199
06-JUL-2008 10:10:48	19BetOri	7	33199
06-JUL-2008 10:56:11	13ZetOph	98	33200
06-JUL-2008 11:51:24	19BetOri	7	33200

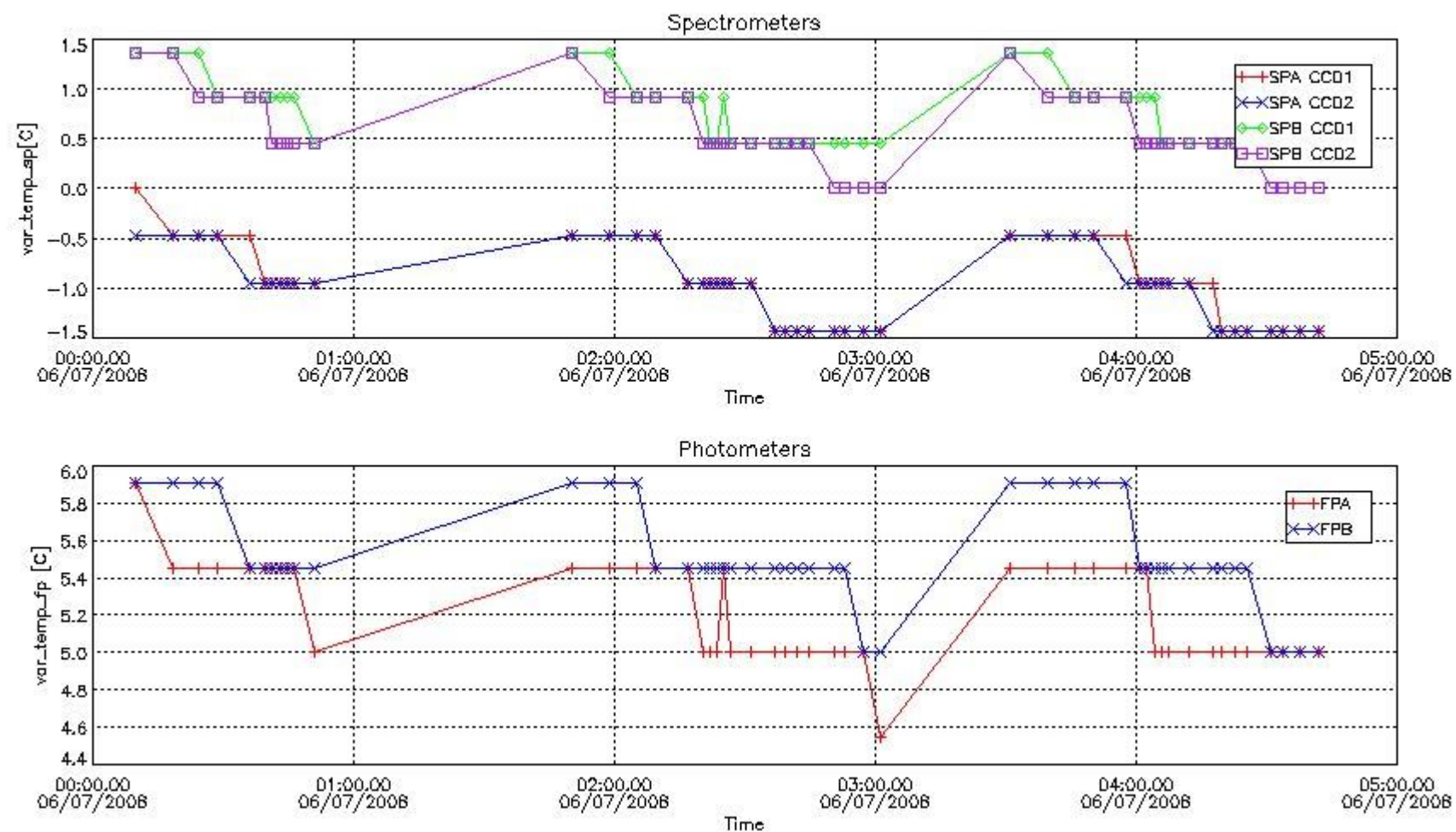
06-JUL-2008 13:32:00	19BetOri	7	33201
06-JUL-2008 14:17:23	13ZetOph	98	33202
06-JUL-2008 15:12:36	19BetOri	7	33202
06-JUL-2008 15:45:03	BetAra	141	33203
06-JUL-2008 15:57:59	13ZetOph	98	33203
06-JUL-2008 16:53:12	19BetOri	7	33203
06-JUL-2008 17:38:35	13ZetOph	98	33204
06-JUL-2008 18:33:48	19BetOri	7	33204
06-JUL-2008 19:06:15	BetAra	141	33205
06-JUL-2008 19:19:11	13ZetOph	98	33205
06-JUL-2008 20:14:24	19BetOri	7	33205
06-JUL-2008 20:59:48	13ZetOph	98	33206
06-JUL-2008 21:55:00	19BetOri	7	33206
06-JUL-2008 22:27:27	BetAra	141	33207
06-JUL-2008 22:40:24	13ZetOph	98	33207
06-JUL-2008 23:35:36	19BetOri	7	33207

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_1PNPDE20080706_000943_000000432070_00073_33193_4127.N1	06-JUL-2008 00:09:43	Dark	42.500	165	34Gam Eri	2.9500	3200.0	85	33193	Yes
2	GOM_TRA_1PNPDE20080706_001819_000000402070_00073_33193_4128.N1	06-JUL-2008 00:18:19	Dark	40.000	157	The1Eri	2.9060	9300.0	80	33193	No
3	GOM_TRA_1PNPDE20080706_002430_000000452070_00074_33194_4129.N1	06-JUL-2008 00:24:30	Dark	44.500	9	Alp Eri	0.45300	24000.	89	33194	No
4	GOM_TRA_1PNPDE20080706_002848_000000382070_00074_33194_4130.N1	06-JUL-2008 00:28:48	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	33194	No
5	GOM_TRA_1PNPDE20080706_003616_000000432070_00074_33194_4131.N1	06-JUL-2008 00:36:16	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	33194	No
6	GOM_TRA_1PNPDE20080706_003941_000000412070_00074_33194_4132.N1	06-JUL-2008 00:39:41	Straylight	40.500	141	Bet Ara	2.8400	4600.0	81	33194	No
7	GOM_TRA_1PNPDE20080706_004111_000000382070_00074_33194_4133.N1	06-JUL-2008 00:41:11	Twilight_stray	37.500	147	Alp Ara	2.8770	26000.	75	33194	No
8	GOM_TRA_1PNPDE20080706_004300_000000402070_00074_33194_4134.N1	06-JUL-2008 00:43:00	Twilight_stray	39.500	40	The Sco	1.8590	7100.0	79	33194	No
9	GOM_TRA_1PNPDE20080706_004440_000000412070_00074_33194_4135.N1	06-JUL-2008 00:44:40	Twilight_stray	40.500	25	35Lam Sco	1.6200	28000.	81	33194	No
10	GOM_TRA_1PNPDE20080706_004607_000000542070_00074_33194_4136.N1	06-JUL-2008 00:46:07	Bright	54.000	116	19Del Sgr	2.7000	4100.0	108	33194	No
11	GOM_TRA_1PNPDE20080706_005049_000000362070_00074_33194_4137.N1	06-JUL-2008 00:50:49	Bright	35.500	86	35Eta Oph	2.4300	10200.	71	33194	No
12	GOM_TRA_1PNPDE20080706_015019_000000372070_00074_33194_3607.N1	06-JUL-2008 01:50:19	Dark	36.500	165	34Gam Eri	2.9500	3200.0	73	33194	No
13	GOM_TRA_1PNPDE20080706_015855_000000402070_00074_33194_3608.N1	06-JUL-2008 01:58:55	Dark	39.500	157	The1Eri	2.9060	9300.0	79	33194	No
14	GOM_TRA_1PNPDE20080706_020506_000000522070_00075_33195_3609.N1	06-JUL-2008 02:05:06	Dark	51.500	9	Alp Eri	0.45300	24000.	103	33195	No
15	GOM_TRA_1PNPDE20080706_020924_000000392070_00075_33195_3610.N1	06-JUL-2008 02:09:24	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	33195	No
16	GOM_TRA_1PNPDE20080706_021652_000000402070_00075_33195_3611.N1	06-JUL-2008 02:16:52	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	33195	No
17	GOM_TRA_1PNPDE20080706_022017_000000382070_00075_33195_3612.N1	06-JUL-2008 02:20:17	Straylight	38.000	141	Bet Ara	2.8400	4600.0	76	33195	No
18	GOM_TRA_1PNPDE20080706_022147_000000382070_00075_33195_3613.N1	06-JUL-2008 02:21:47	Twilight_stray	38.000	147	Alp Ara	2.8770	26000.	76	33195	No
19	GOM_TRA_1PNPDE20080706_022336_000000422070_00075_33195_3614.N1	06-JUL-2008 02:23:36	Twilight_stray	41.500	40	The Sco	1.8590	7100.0	83	33195	No
20	GOM_TRA_1PNPDE20080706_022516_000000412070_00075_33195_3615.N1	06-JUL-2008 02:25:16	Twilight_stray	40.500	25	35Lam Sco	1.6200	28000.	81	33195	No
21	GOM_TRA_1PNPDE20080706_022643_000000472070_00075_33195_3616.N1	06-JUL-2008 02:26:43	Bright	46.500	116	19Del Sgr	2.7000	4100.0	93	33195	No
22	GOM_TRA_1PNPDE20080706_023125_000000362070_00075_33195_3617.N1	06-JUL-2008 02:31:25	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	33195	No
23	GOM_TRA_1PNPDE20080706_023653_000000362070_00075_33195_3618.N1	06-JUL-2008 02:36:53	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	33195	No
24	GOM_TRA_1PNPDE20080706_023911_000000362070_00075_33195_3619.N1	06-JUL-2008 02:39:11	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	33195	No
25	GOM_TRA_1PNPDE20080706_024208_000000382070_00075_33195_3620.N1	06-JUL-2008 02:42:08	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	33195	No
26	GOM_TRA_1PNPDE20080706_024447_000000372070_00075_33195_3621.N1	06-JUL-2008 02:44:47	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	33195	No
27	GOM_TRA_1PNPDE20080706_025030_000000372070_00075_33195_3622.N1	06-JUL-2008 02:50:30	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	33195	No
28	GOM_TRA_1PNPDE20080706_025308_000000332070_00075_33195_3623.N1	06-JUL-2008 02:53:08	Bright	32.500	119	14Eta Dra	2.7270	4700.0	65	33195	No
29	GOM_TRA_1PNPDE20080706_025714_000000332070_00075_33195_3624.N1	06-JUL-2008 02:57:14	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	33195	No
30	GOM_TRA_1PNPDE20080706_030115_000000342070_00075_33195_3625.N1	06-JUL-2008 03:01:15	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	33195	No
31	GOM_TRA_1PNPDE20080706_033055_000000462070_00075_33195_3768.N1	06-JUL-2008 03:30:55	Dark	45.500	165	34Gam Eri	2.9500	3200.0	91	33195	No
32	GOM_TRA_1PNPDE20080706_033932_000000402070_00075_33195_3769.N1	06-JUL-2008 03:39:32	Dark	40.000	157	The1Eri	2.9060	9300.0	80	33195	No
33	GOM_TRA_1PNPDE20080706_034543_000000492070_00076_33196_3770.N1	06-JUL-2008 03:45:43	Dark	48.500	9	Alp Eri	0.45300	24000.	97	33196	No
34	GOM_TRA_1PNPDE20080706_035000_000000372070_00076_33196_3771.N1	06-JUL-2008 03:50:00	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	33196	No
35	GOM_TRA_1PNPDE20080706_035729_000000422070_00076_33196_3772.N1	06-JUL-2008 03:57:29	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	33196	No
36	GOM_TRA_1PNPDE20080706_040054_000000392070_00076_33196_3773.N1	06-JUL-2008 04:00:54	Straylight	39.000	141	Bet Ara	2.8400	4600.0	78	33196	No
37	GOM_TRA_1PNPDE20080706_040223_000000362070_00076_33196_3774.N1	06-JUL-2008 04:02:23	Twilight_stray	35.500	147	Alp Ara	2.8770	26000.	71	33196	No
38	GOM_TRA_1PNPDE20080706_040413_000000412070_00076_33196_3775.N1	06-JUL-2008 04:04:13	Twilight_stray	41.000	40	The Sco	1.8590	7100.0	82	33196	No

39	GOM_TRA_1PNPDE20080706_040552_00000382070_00076_33196_3776.N1	06-JUL-2008 04:05:52	Twilight_stray	38.000	25	35Lam Sco	1.6200	28000.	76	33196	No
40	GOM_TRA_1PNPDE20080706_040719_00000542070_00076_33196_3777.N1	06-JUL-2008 04:07:19	Bright	54.000	116	19Del Sgr	2.7000	4100.0	108	33196	No
41	GOM_TRA_1PNPDE20080706_041201_00000372070_00076_33196_3778.N1	06-JUL-2008 04:12:01	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	33196	No
42	GOM_TRA_1PNPDE20080706_041729_00000362070_00076_33196_3779.N1	06-JUL-2008 04:17:29	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	33196	No
43	GOM_TRA_1PNPDE20080706_041947_00000362070_00076_33196_3780.N1	06-JUL-2008 04:19:47	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	33196	No
44	GOM_TRA_1PNPDE20080706_042244_00000382070_00076_33196_3781.N1	06-JUL-2008 04:22:44	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	33196	No
45	GOM_TRA_1PNPDE20080706_042523_00000362070_00076_33196_3782.N1	06-JUL-2008 04:25:23	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	33196	No
46	GOM_TRA_1PNPDE20080706_043106_00000372070_00076_33196_3783.N1	06-JUL-2008 04:31:06	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	33196	No
47	GOM_TRA_1PNPDE20080706_043344_00000342070_00076_33196_3784.N1	06-JUL-2008 04:33:44	Bright	33.500	119	14Eta Dra	2.7270	4700.0	67	33196	No
48	GOM_TRA_1PNPDE20080706_043750_00000362070_00076_33196_3785.N1	06-JUL-2008 04:37:50	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	33196	No
49	GOM_TRA_1PNPDE20080706_044151_00000352070_00076_33196_3786.N1	06-JUL-2008 04:41:51	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	33196	No

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

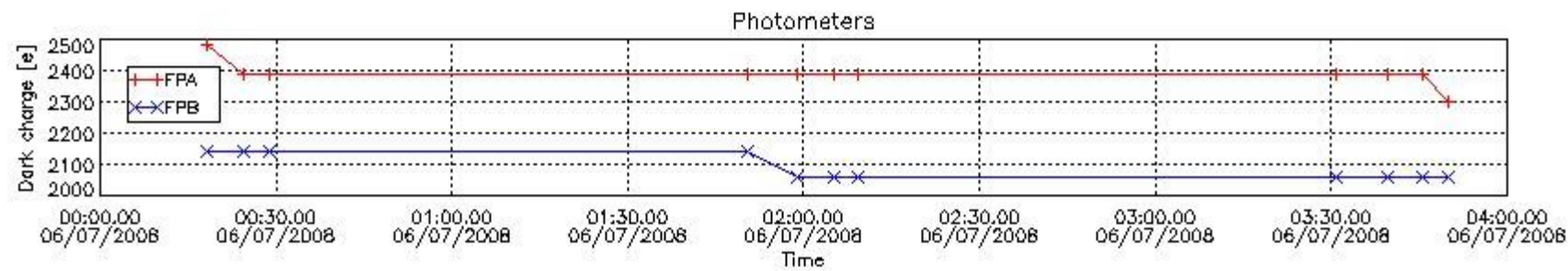
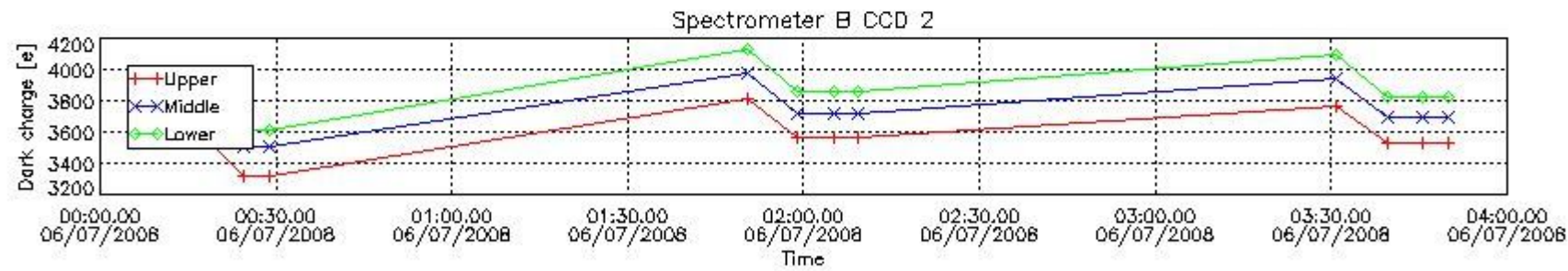
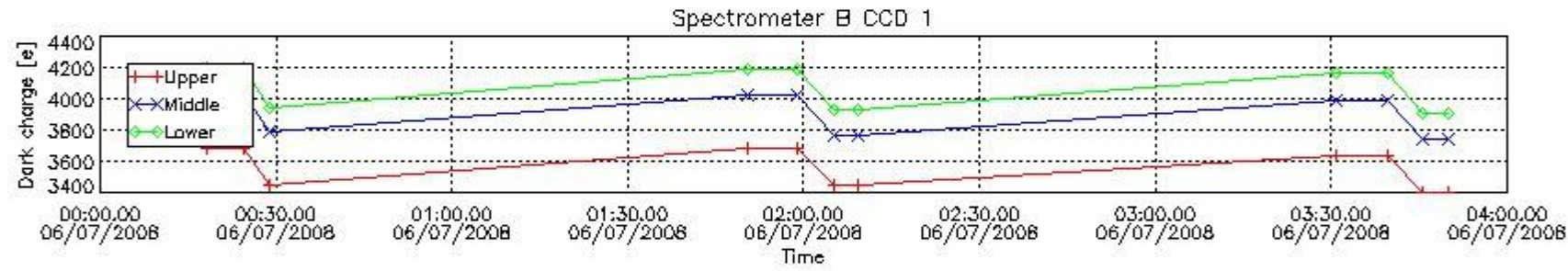
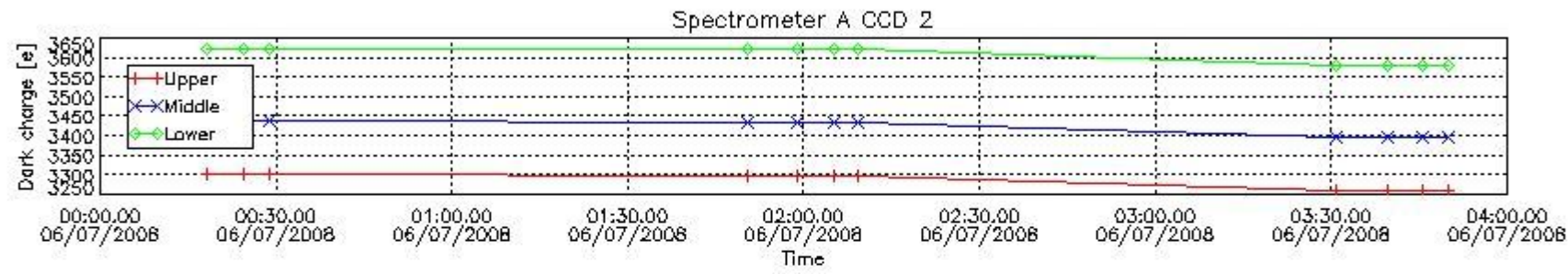
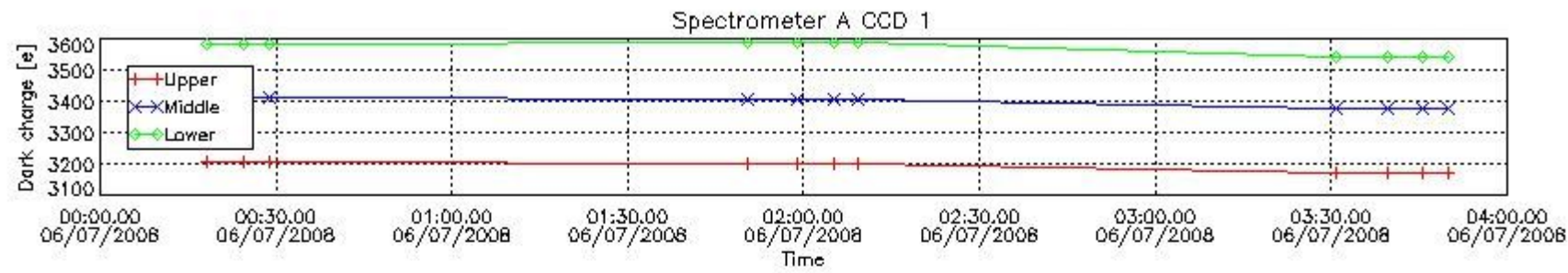


4. Overview of dark signal processing per product

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



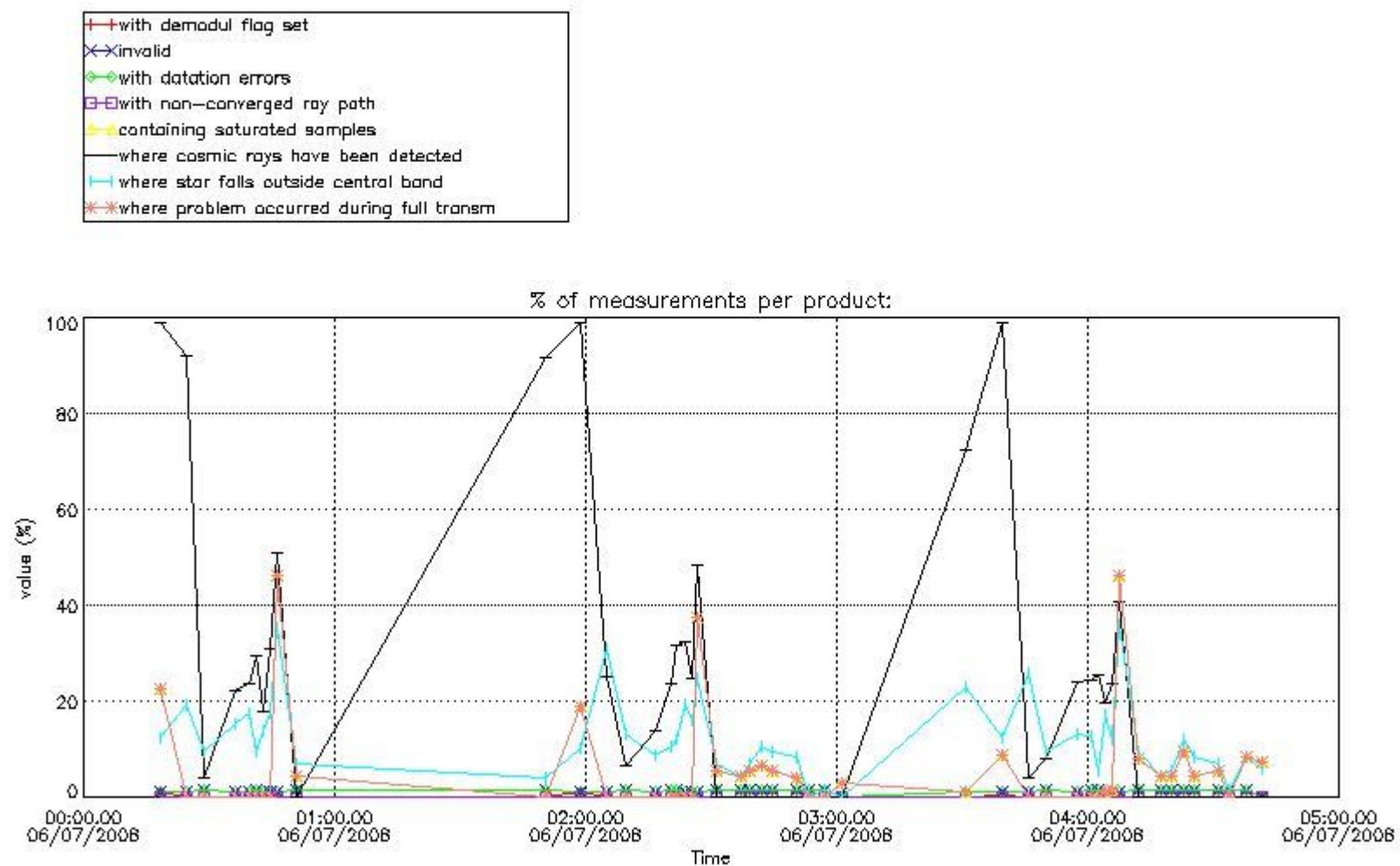
5. Demodulation flag and quality information monitoring

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.

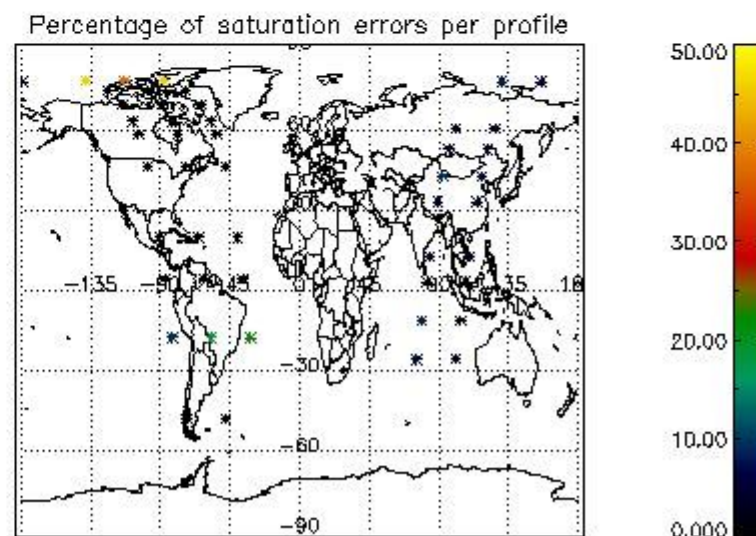
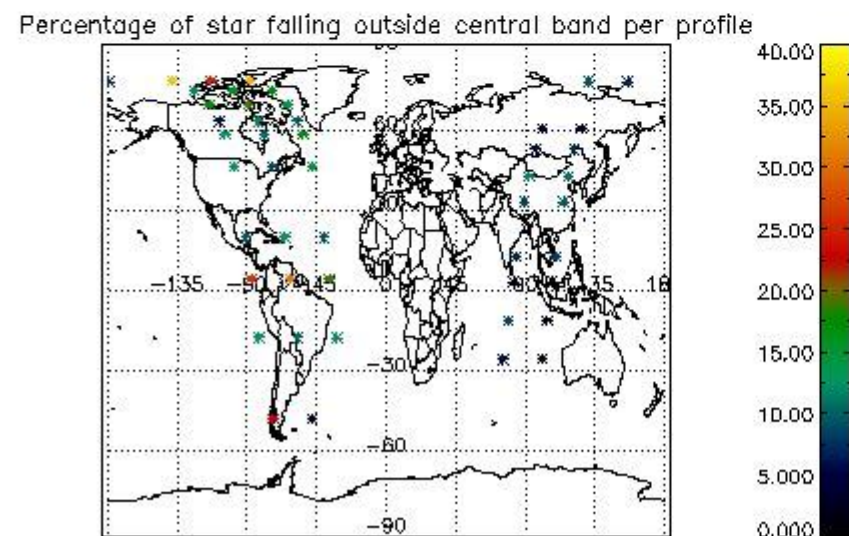
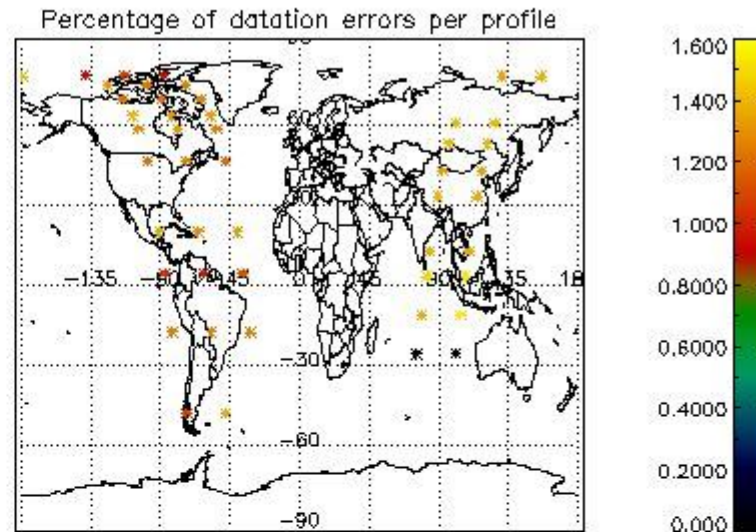
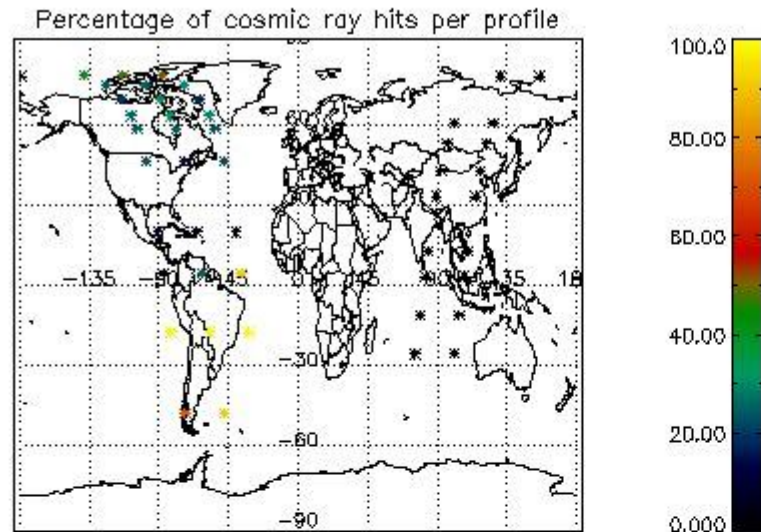
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	27.0833 %
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)



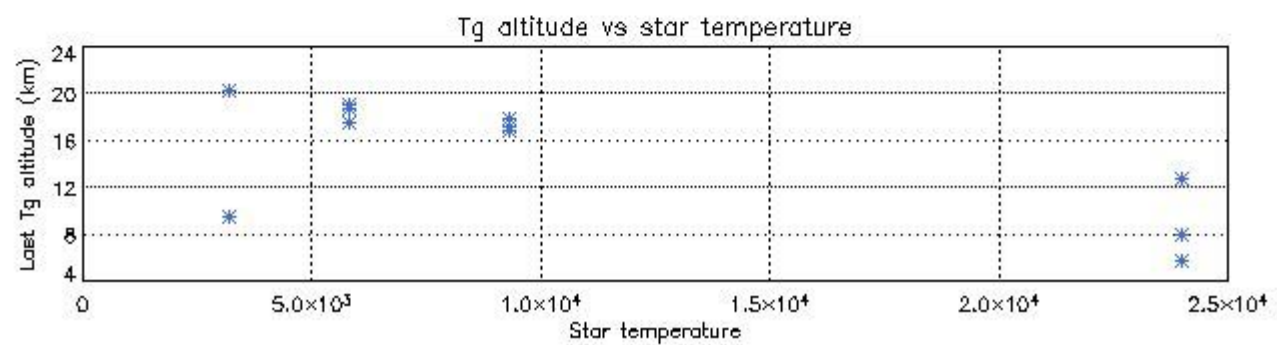
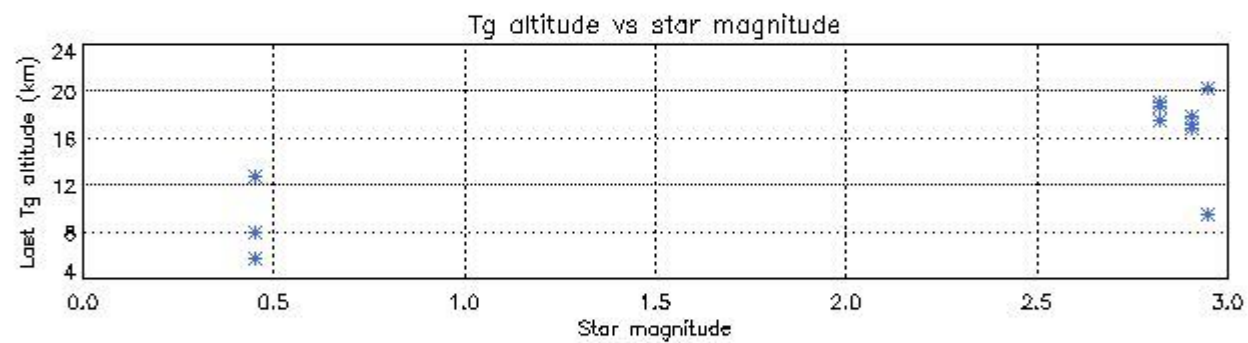
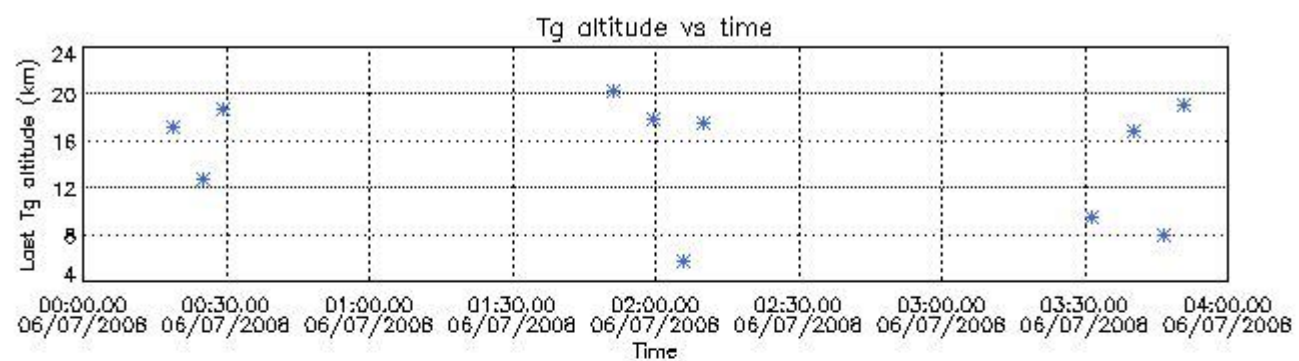
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.825	19.500	NaN
St. deviation:	5.0026	6.4296	NaN
Maximum:	20.197	28.536	NaN
Minimum:	5.7934	3.6092	NaN
Number of data:	11.000	22.000	NaN

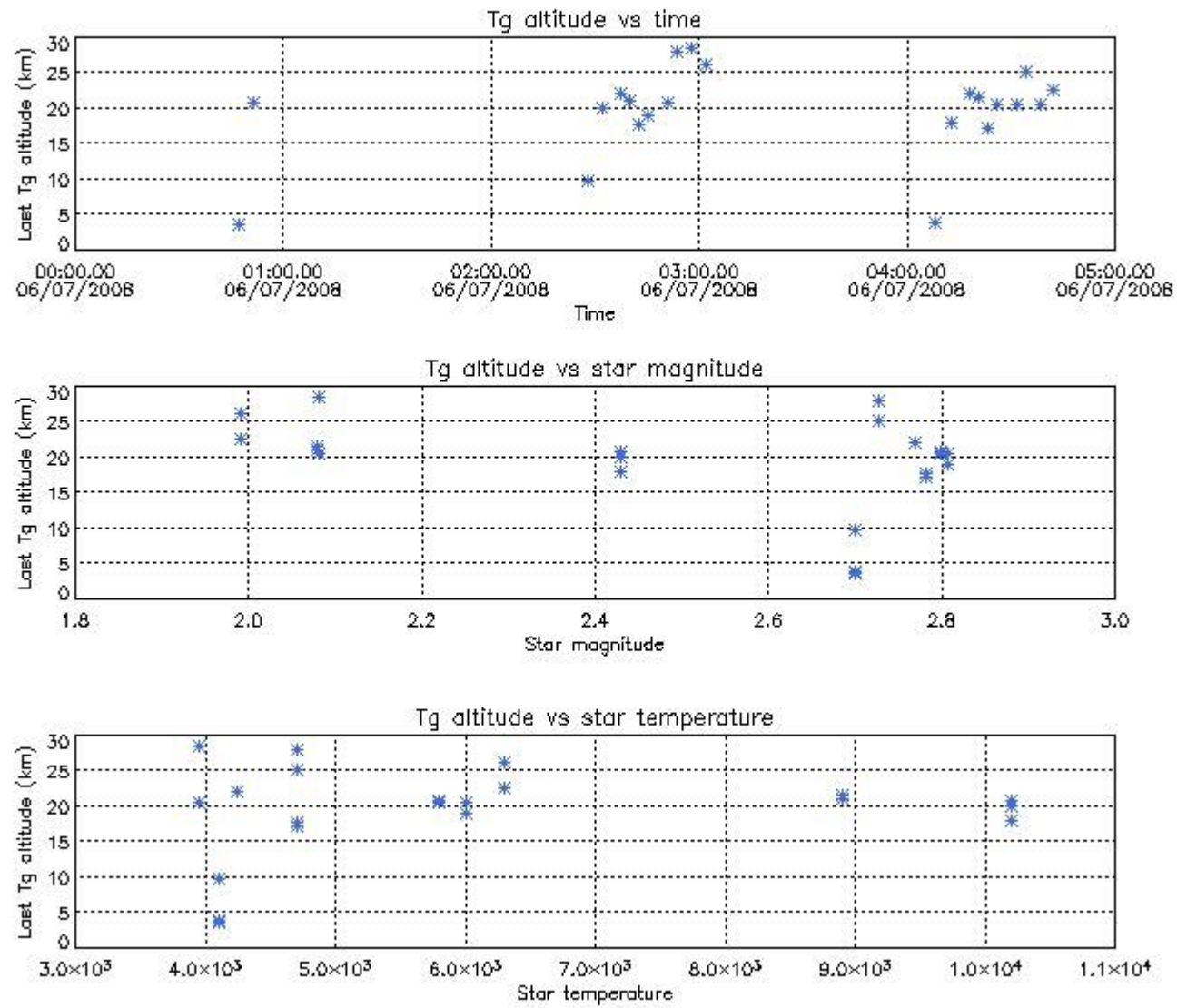
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

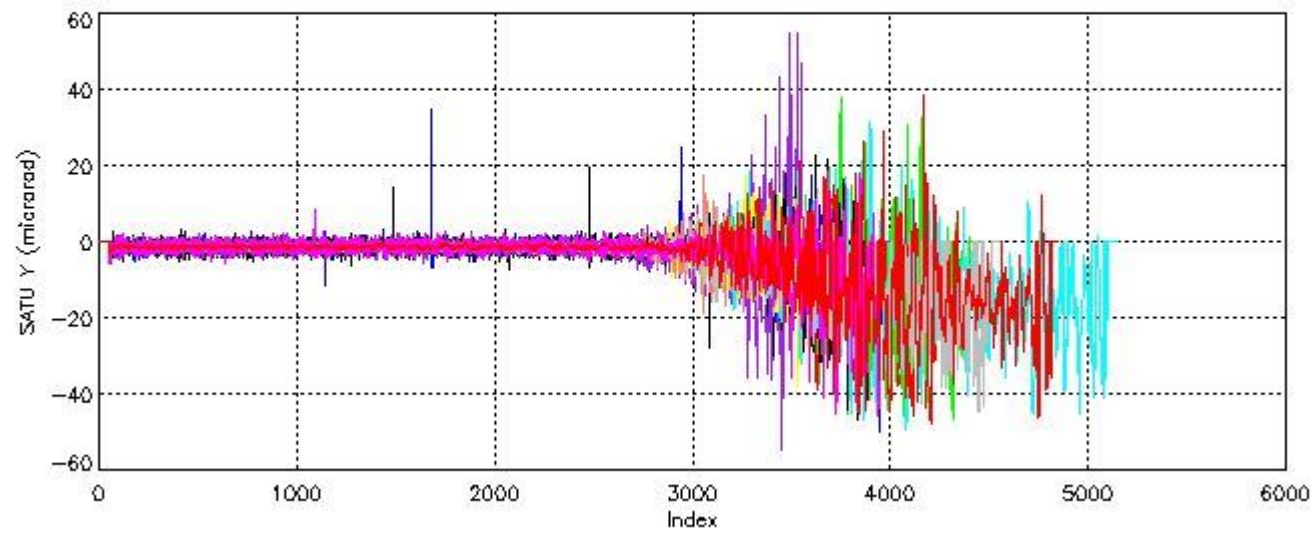
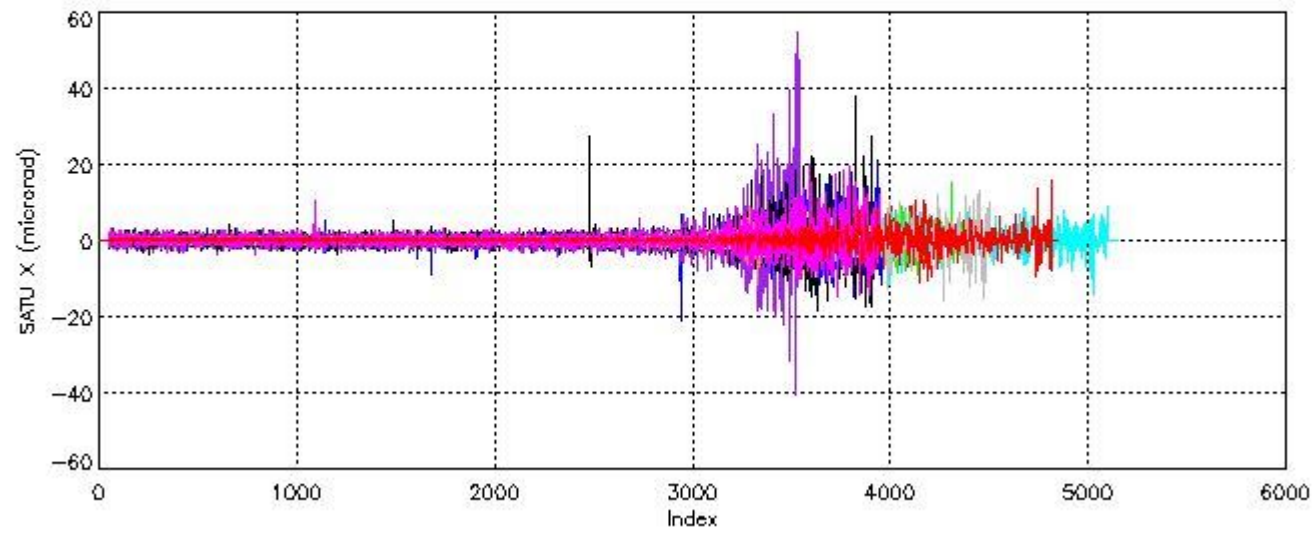


7. Star Acquisition and Tracking Unit (SATU)

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:	0.036065	-1.4273	0.060825	-1.3677
St. deviation:	0.58101	0.81385	0.68242	0.81866
Maximum:	4.1000	2.9000	3.3000	2.5000
Minimum:	-3.5000	-5.8000	-3.9000	-5.3000

Number of data:	9750.0	9750.0	18050.	18050.
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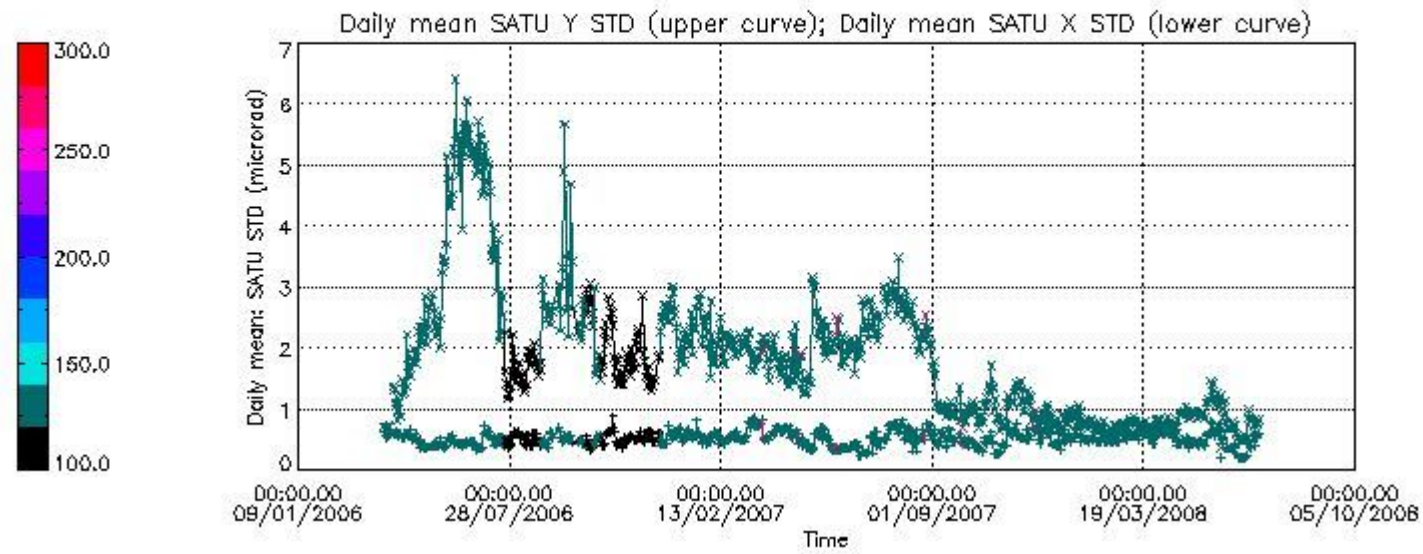
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

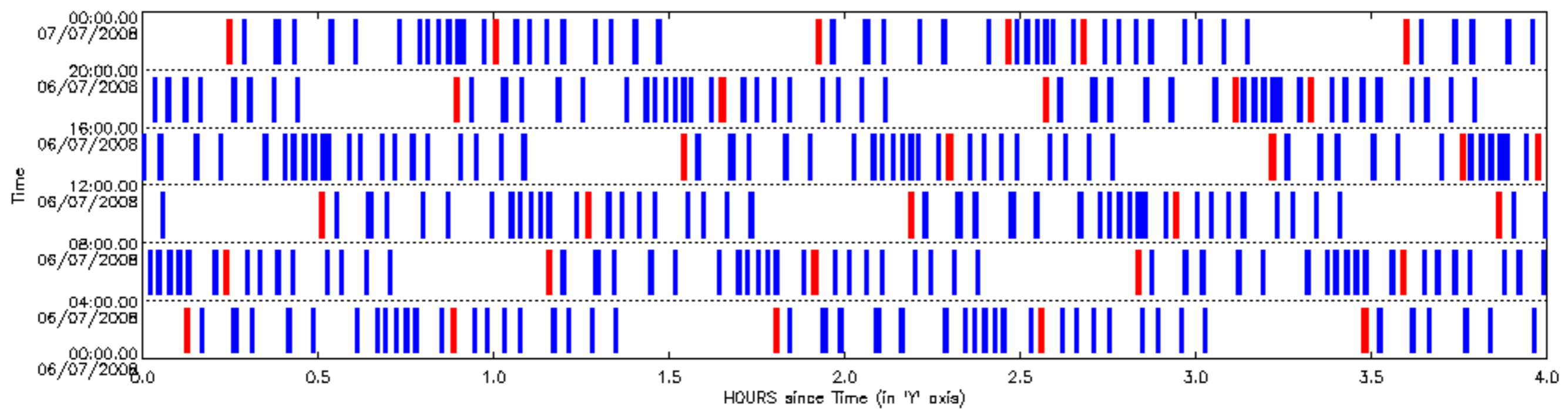
Lower curve: STD of SATU X axis

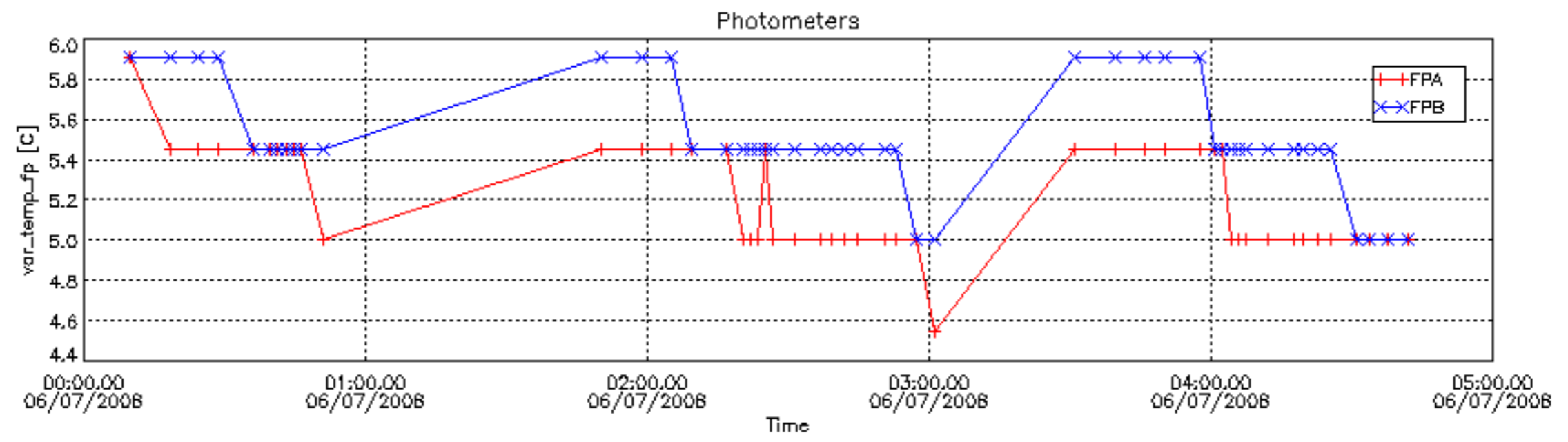
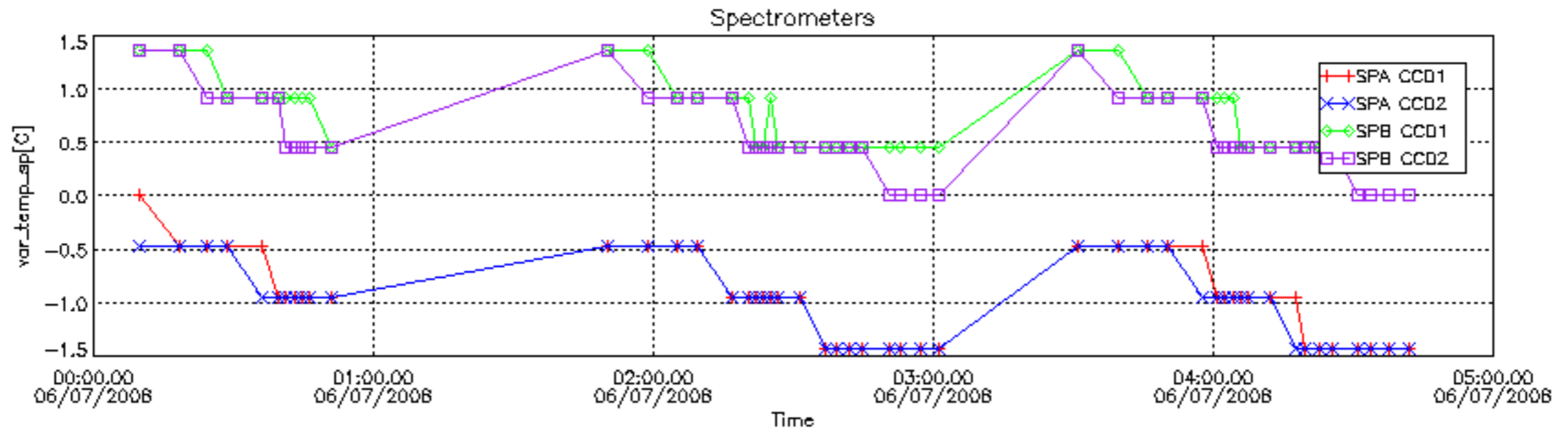


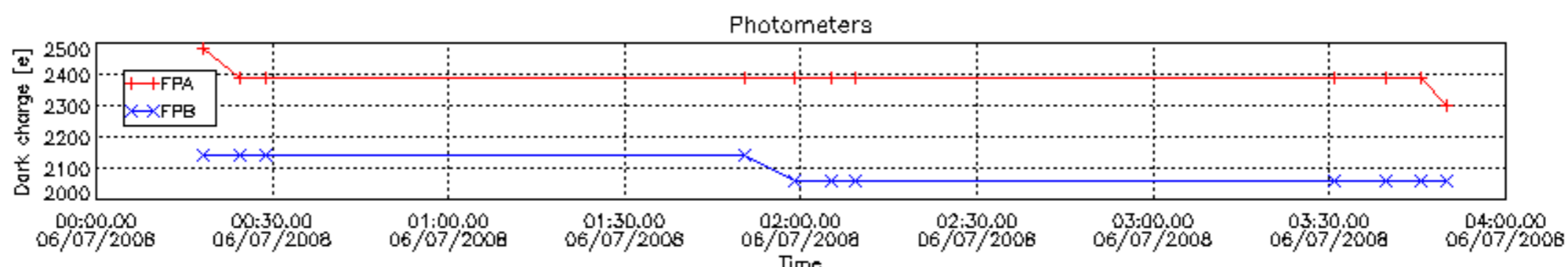
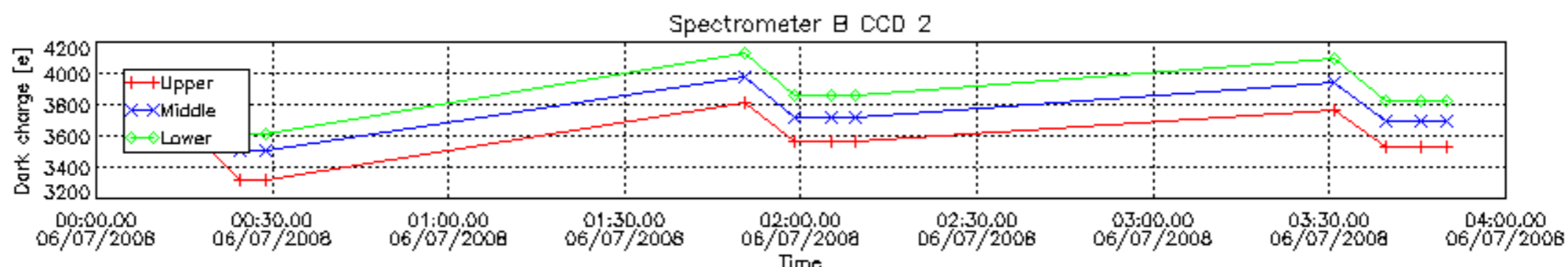
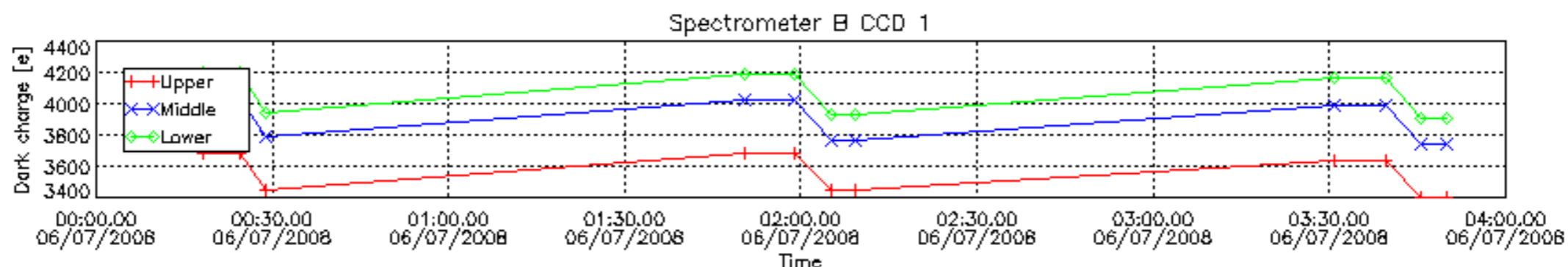
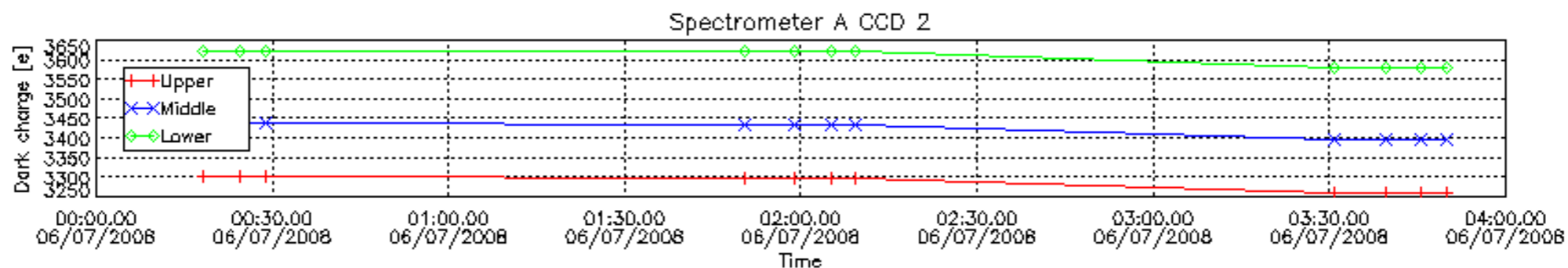
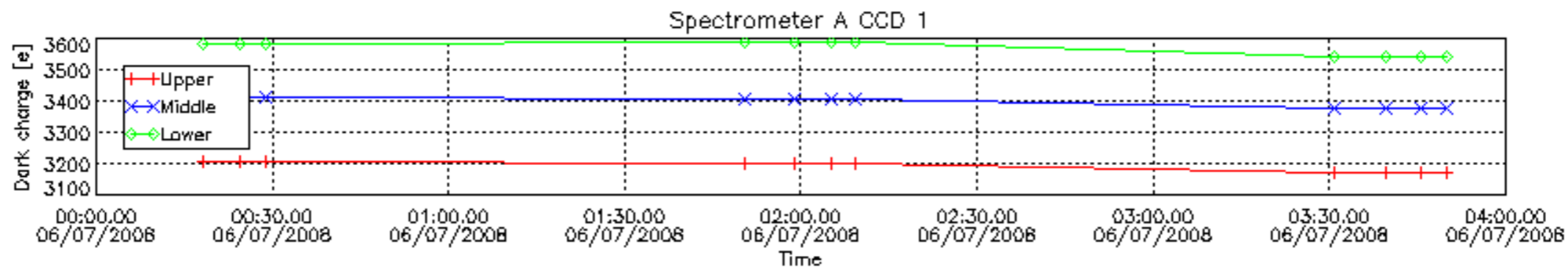
8. Auxiliary Data Files used for the production reported in section 2.4

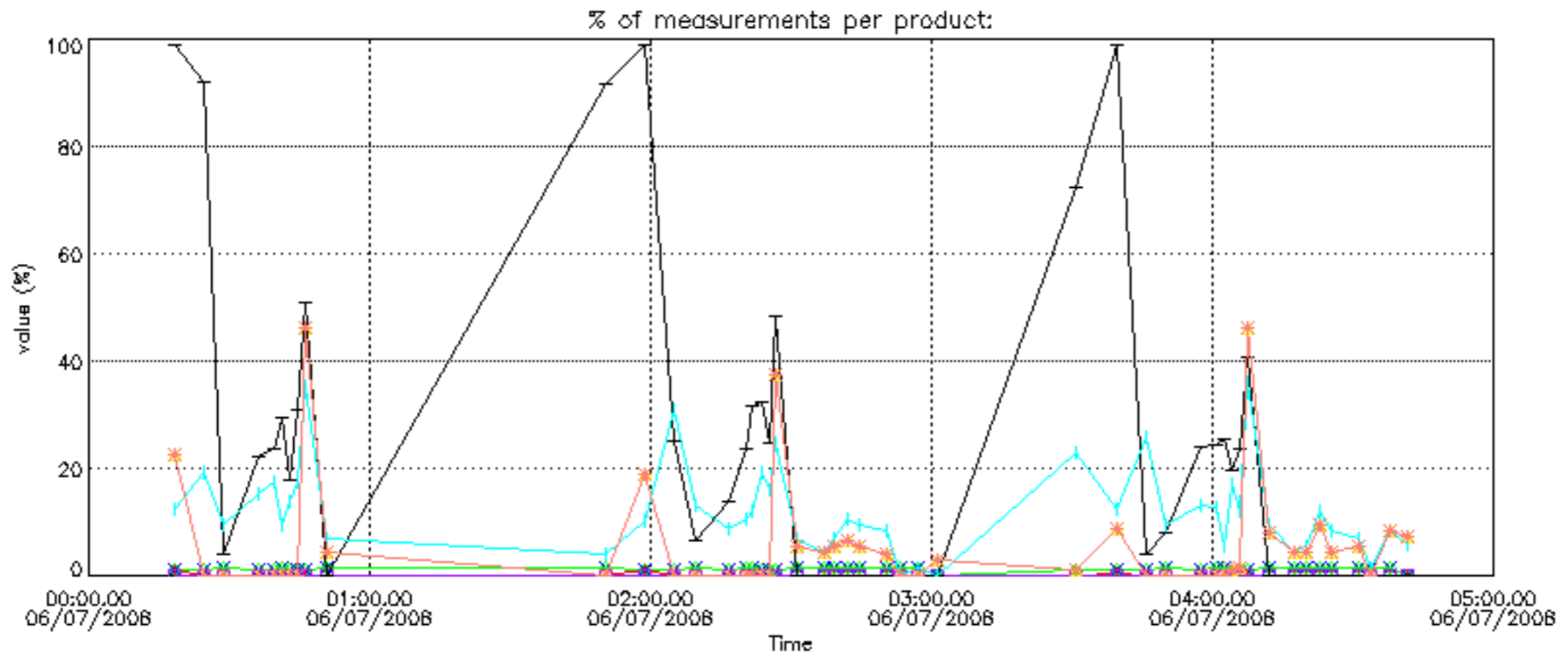
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	06-JUL-2008 00:09:43
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080630_090115_20080628_000000_20100101_000000	1	06-JUL-2008 00:09:43
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	06-JUL-2008 00:09:43
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-JUL-2008 00:09:43
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	06-JUL-2008 00:09:43
ECMWF_FILE	AUX_ECF_AXNECM20080705_072113_20080705_210000_20080706_090000	1	06-JUL-2008 00:09:43
ECMWF_FILE	AUX_ECF_AXNECM20080705_190114_20080706_030000_20080706_150000	31	06-JUL-2008 03:30:55
OPTIONAL_ECMWF_FILE	MISSING	1	06-JUL-2008 00:09:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080705_223022_000054192070_00072_33192_5892.N1	1	06-JUL-2008 00:09:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080706_014657_000041442070_00074_33194_5893.N1	31	06-JUL-2008 03:30:55

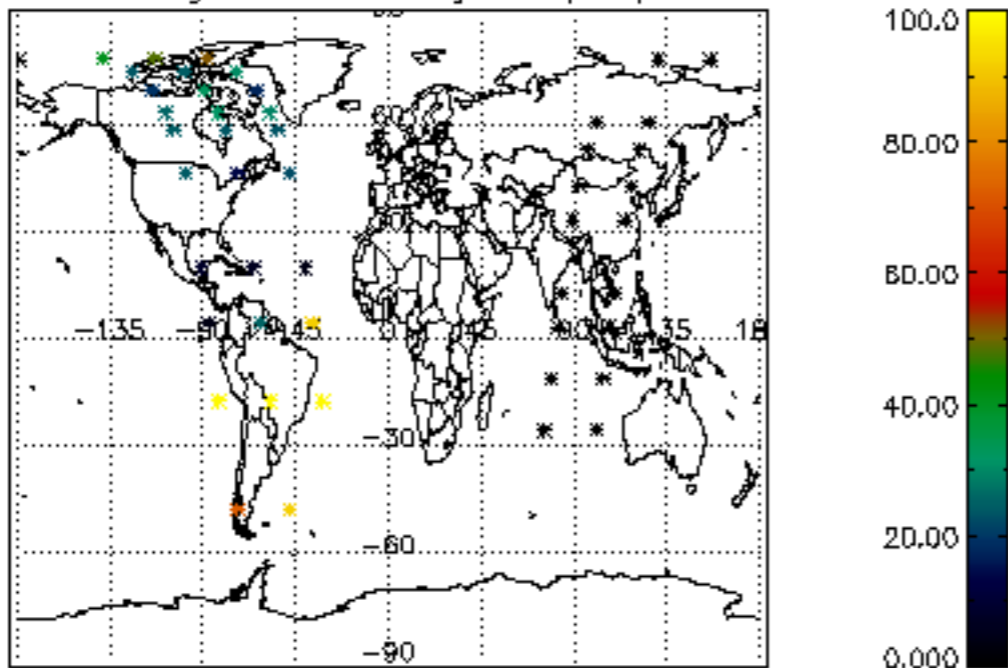




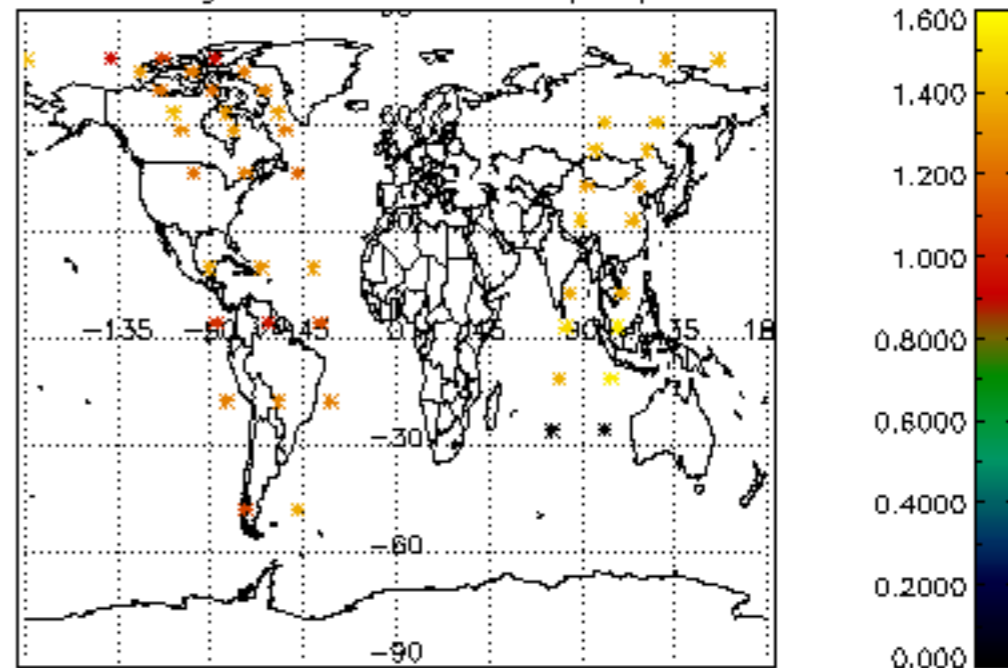




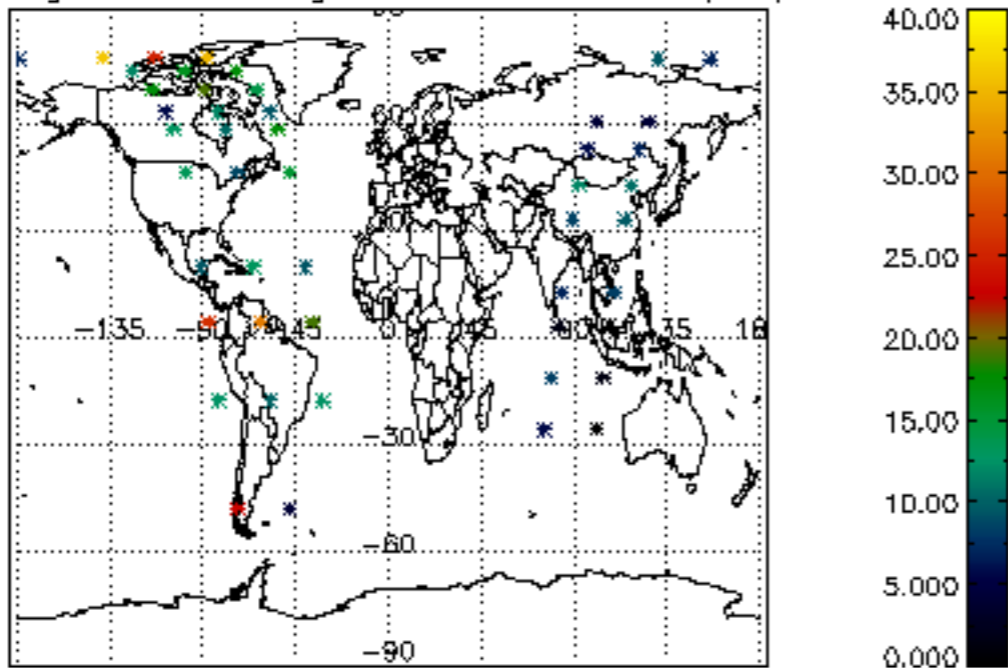
Percentage of cosmic ray hits per profile



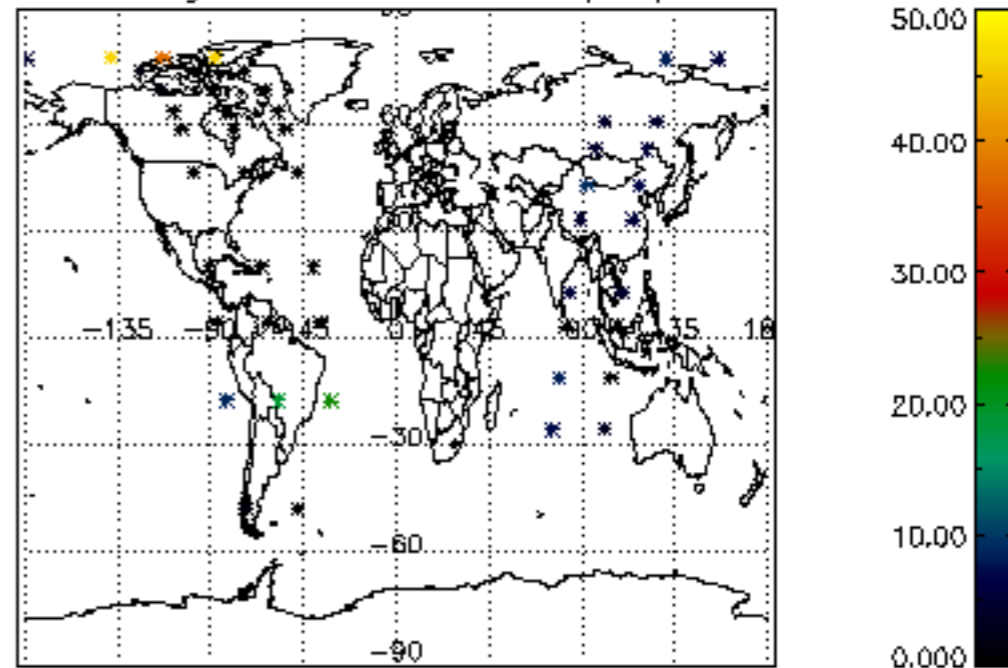
Percentage of datation errors per profile



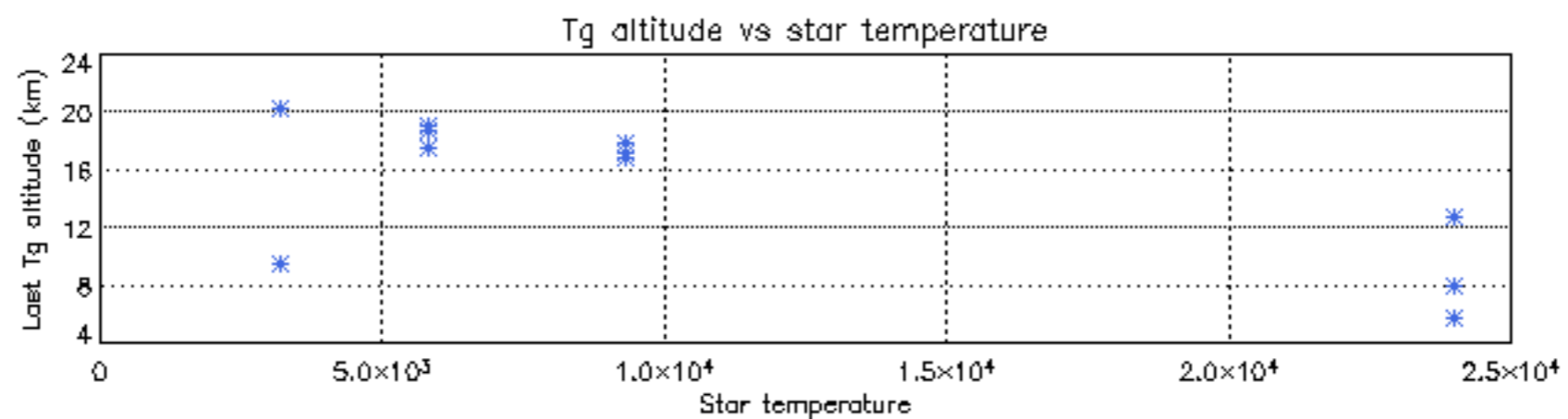
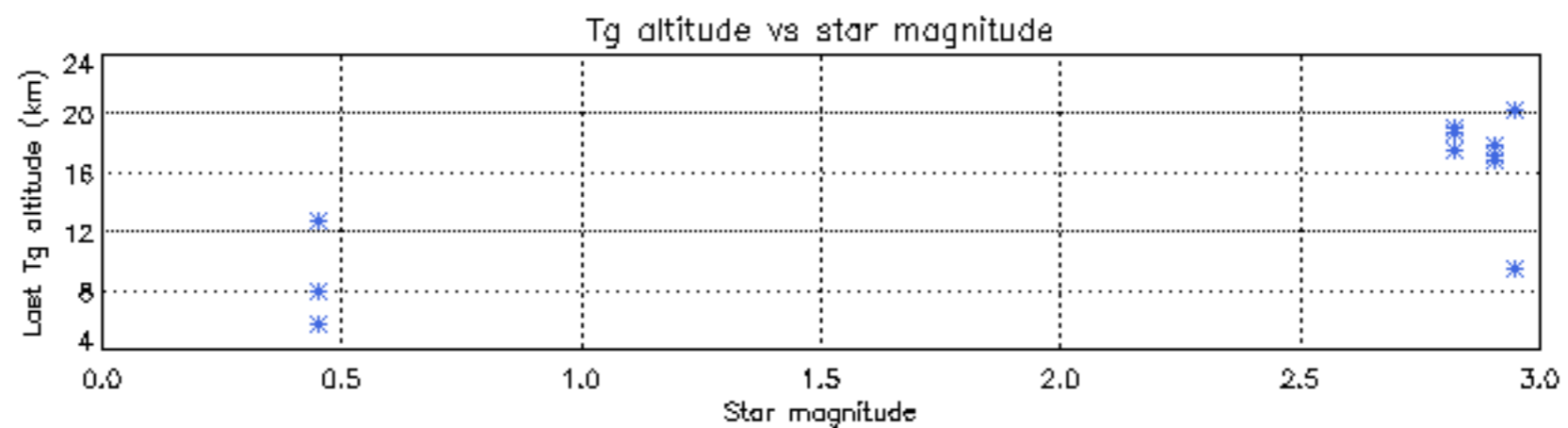
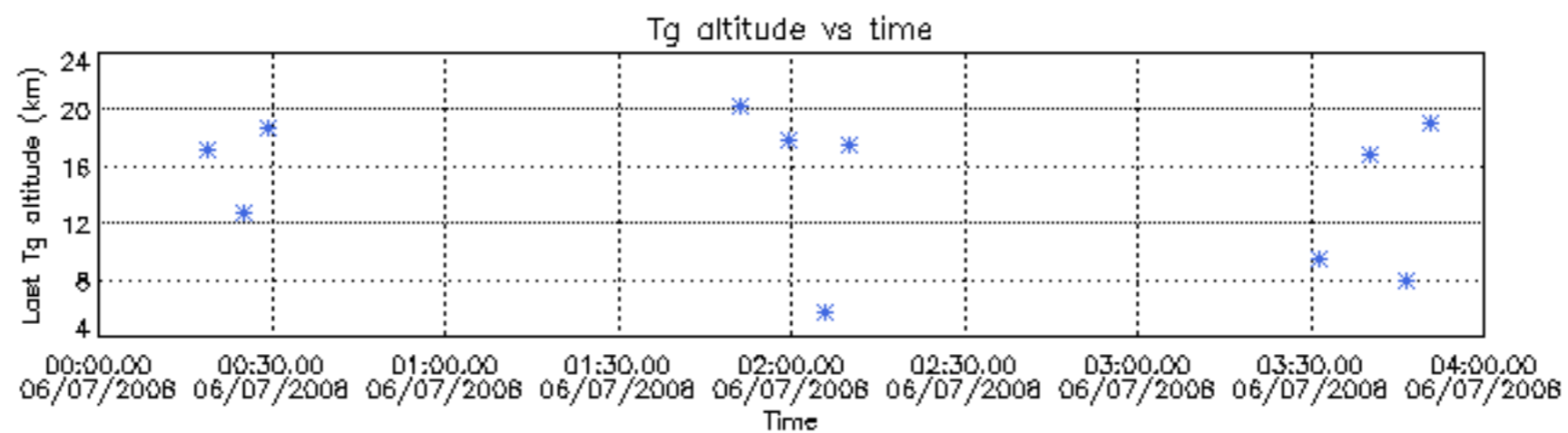
Percentage of star falling outside central band per profile



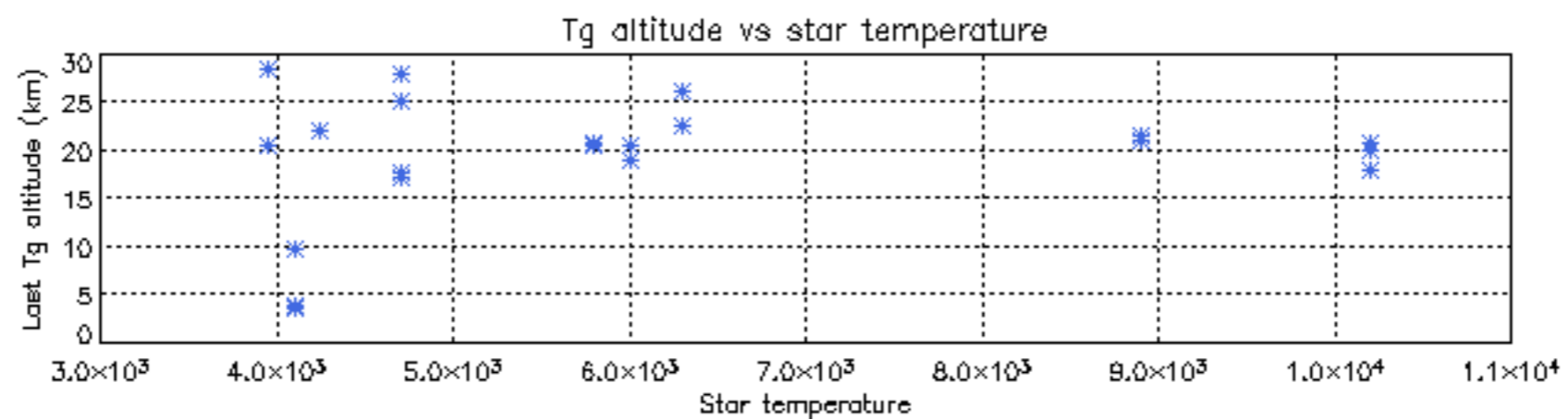
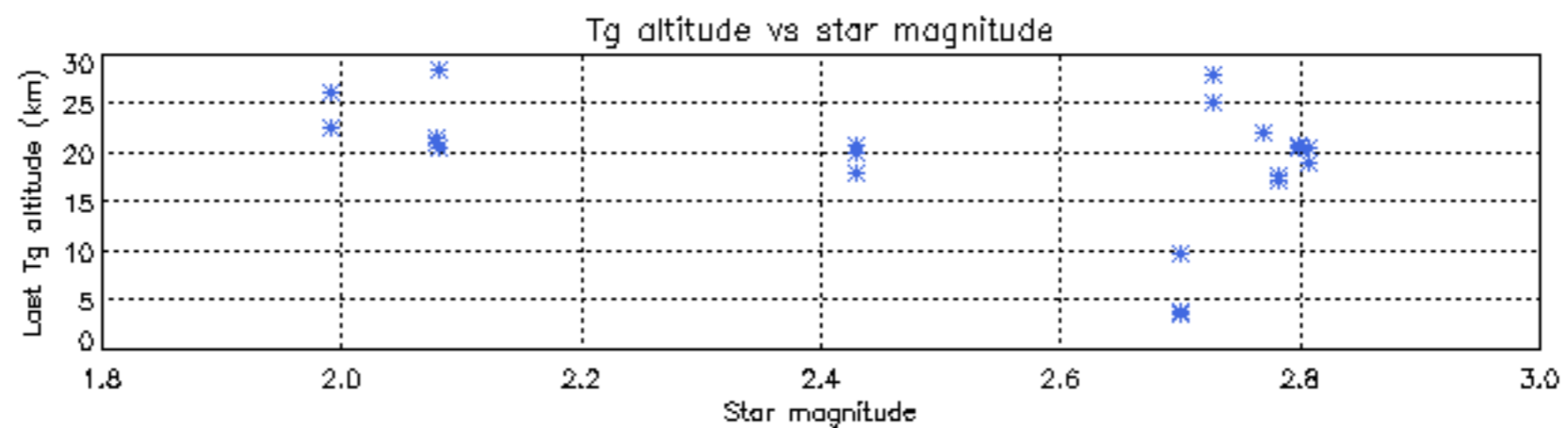
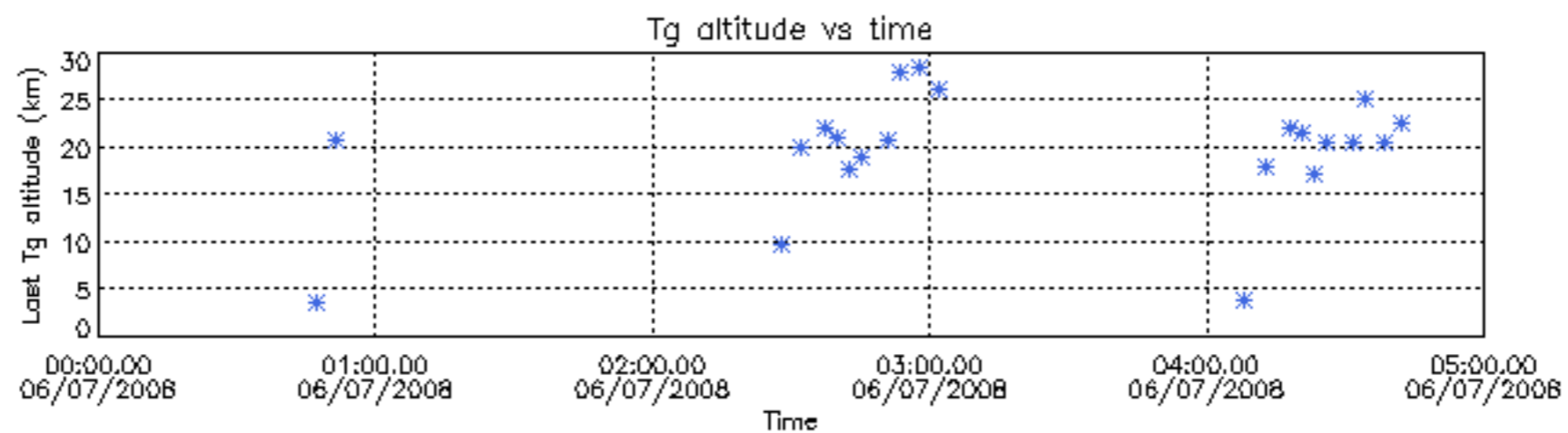
Percentage of saturation errors per profile

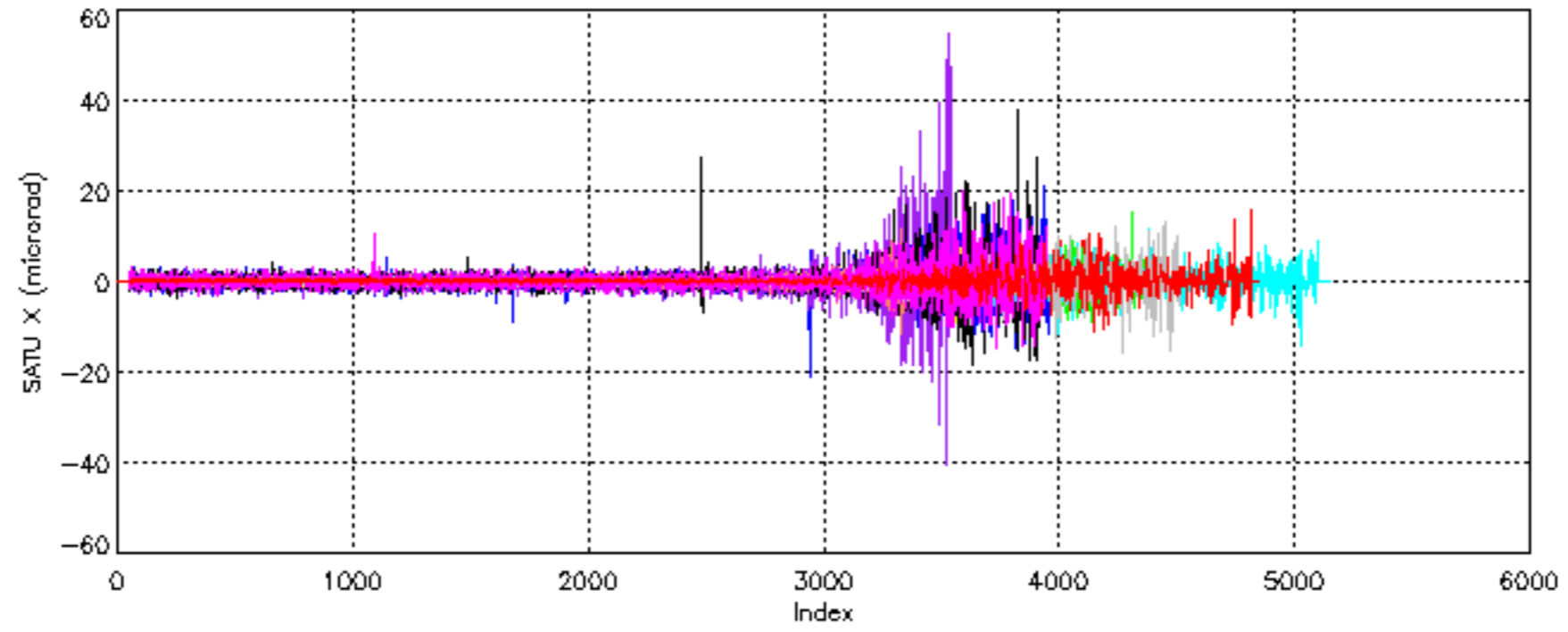


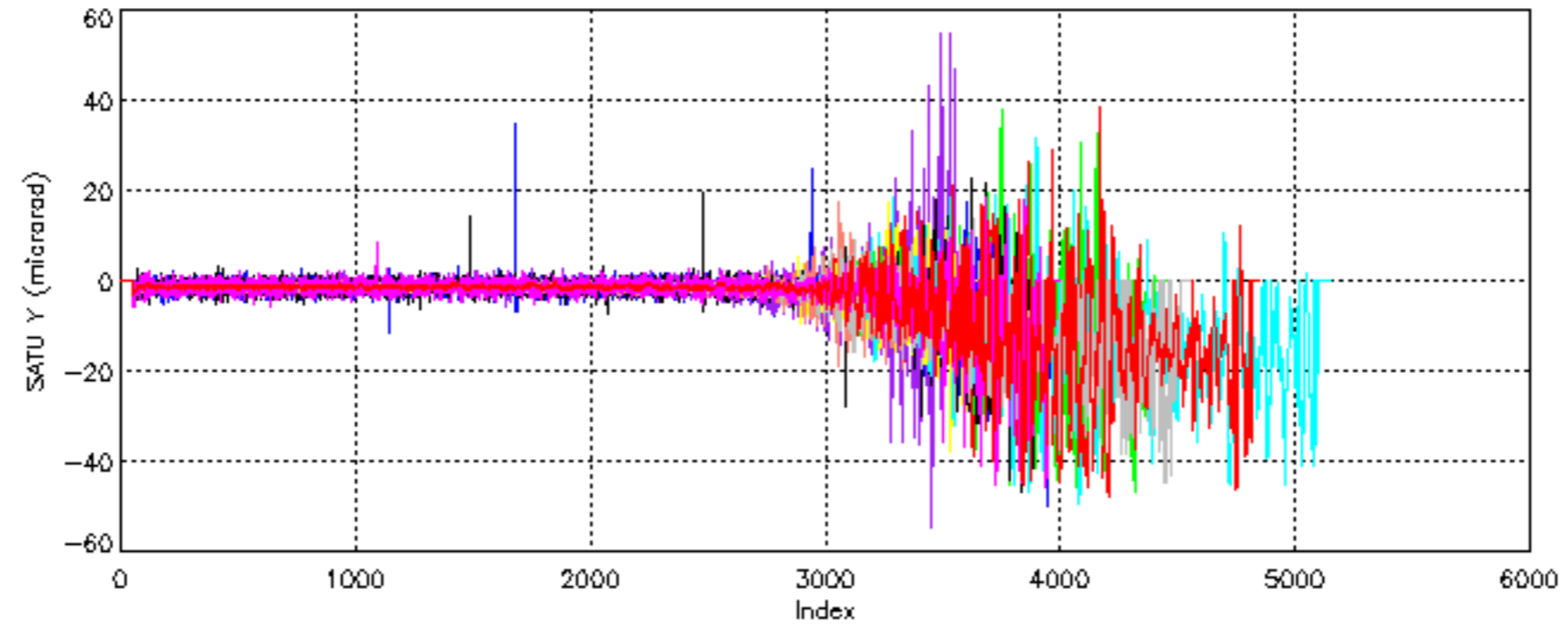
Tangent altitude at which the star is lost

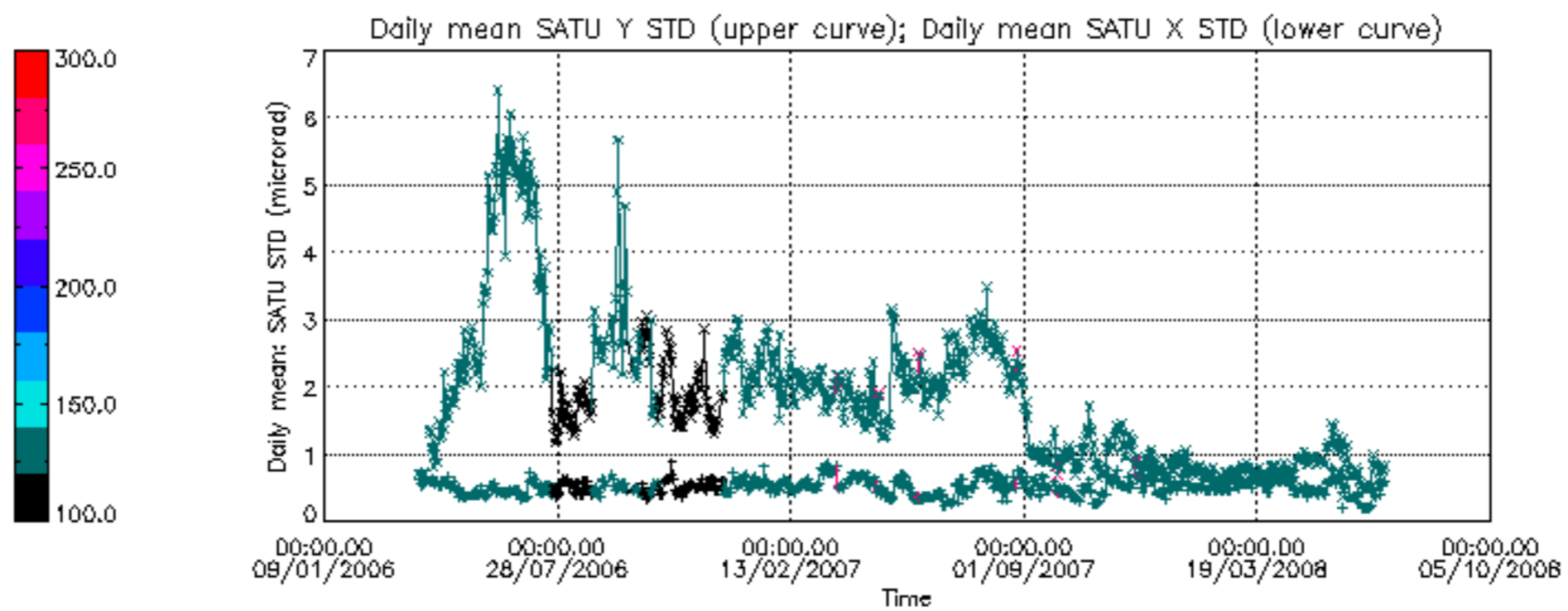


Tangent altitude at which the star is lost









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 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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 15; 4062.2; 01-JUL-2008 20:55:00; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;33134
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 17; 4295.5; 01-JUL-2008 20:58:54; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;33134
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 18; 3194.3; 02-JUL-2008 00:01:44; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33136
 19; 3445.5; 02-JUL-2008 00:05:55; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;33136

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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
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 7; 2808.4; 01-JUL-2008 10:30:31; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33128
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 3; 3171.0; 12-JUL-2008 14:52:23; Bright; 86.5; 60; 7Bet UMi ; 2.08; 3950;occ; 173; 0;33288
 4; 3392.4; 12-JUL-2008 14:56:04; Bright; 84.5; 49; 1Alp UMi ; 1.99; 6300;occ; 169; 0;33288
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22; 6620.3; 12-JUL-2008 20:51:40; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33291
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17; 2785.7; 13-JUL-2008 04:10:45; Bright; 36.0; 69; 33Gam Dra ; 2.23; 3800;occ; 72; 0;33296
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13; 2784.6; 24-JUL-2008 00:03:33; Bright; 34.0; 69; 33Gam Dra ; 2.23; 3800;occ; 68; 0;33451
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 13; 662.8; 23-JUL-2008 08:22:48; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33442
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 5; 4196.3; 23-JUL-2008 09:21:41; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;33442
 6; 4430.8; 23-JUL-2008 09:25:36; Bright; 38.5; 114; 3Iot Aur ; 2.69; 4600;occ; 77; 0;33442
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 18; 6912.9; 23-JUL-2008 10:06:58; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;33442
 19; 7427.9; 23-JUL-2008 10:15:33; Dark ; 46.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 92; 0;33442
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 5;-1035.9; 26-JUL-2008 02:58:26; Dark ; 37.5; 30; 46Eps Ori ; 1.69; 30000;occ; 75; 0;33481
 6; -895.2; 26-JUL-2008 03:00:47; Dark ; 40.0; 7; 19Bet Ori ; 0.10; 14000;occ; 80; 0;33481
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 14; 1399.4; 26-JUL-2008 03:39:01; Dark ; 43.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 86; 0;33482
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13; 5144.6; 26-JUL-2008 21:27:26; Dark ; 39.0; 7; 19Bet Ori ; 0.10; 14000;occ; 78; 0;33492
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11; 2712.4; 26-JUL-2008 22:27:30; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;33493
12; 3122.6; 26-JUL-2008 22:34:20; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;33493
13; 3442.0; 26-JUL-2008 22:39:39; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;33493
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19; 5145.0; 26-JUL-2008 23:08:02; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;33493
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11; 2712.1; 27-JUL-2008 00:08:05; Bright; 37.0; 144; 18Del Cyg ; 2.86; 11000;occ; 74; 0;33494
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6; 3098.3; 30-JUL-2008 15:25:39; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;33546
7; 3441.4; 30-JUL-2008 15:31:22; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;33546
8; 4200.8; 30-JUL-2008 15:44:02; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;33546
9; 4512.2; 30-JUL-2008 15:49:13; Dark ; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;33546
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12; 4904.6; 30-JUL-2008 15:55:46; Dark ; 42.5; 27; 24Gam Ori ; 1.64; 26000;occ; 85; 0;33546
13; 5019.5; 30-JUL-2008 15:57:40; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;33546
14; 5166.2; 30-JUL-2008 16:00:07; Dark ; 44.0; 7; 19Bet Ori ; 0.10; 14000;occ; 88; 0;33546
15; 5298.2; 30-JUL-2008 16:02:19; Dark ; 38.0; 101; 11Alp Lep ; 2.58; 7000;occ; 76; 0;33546
16; 5723.0; 30-JUL-2008 16:09:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33546
17; 5997.2; 30-JUL-2008 16:13:58; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;33546
18; 6332.4; 30-JUL-2008 16:19:33; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;33546
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3; 2144.4; 30-JUL-2008 16:50:21; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;33547
4; 2569.0; 30-JUL-2008 16:57:26; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;33547
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6; 3097.9; 30-JUL-2008 17:06:15; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;33547
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13; 5019.8; 30-JUL-2008 17:38:17; Dark ; 39.5; 30; 46Eps Ori ; 1.69; 30000;occ; 79; 0;33547
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18; 6333.1; 30-JUL-2008 18:00:10; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;33547
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6; 2656.4; 30-JUL-2008 18:39:29; Bright; 40.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 81; 0;33548
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13; 4905.2; 30-JUL-2008 19:16:58; Dark ; 41.0; 27; 24Gam Ori ; 1.64; 26000;occ; 82; 0;33548
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19; 6333.7; 30-JUL-2008 19:40:47; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;33548
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5; 913.8; 31-JUL-2008 00:52:50; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;33552


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11; 2654.6; 31-JUL-2008 01:21:51; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33552
12; 3095.6; 31-JUL-2008 01:29:12; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;33552
13; 3441.2; 31-JUL-2008 01:34:58; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;33552
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15; 4345.2; 31-JUL-2008 01:50:02; Bright; 33.5; 107; 37The Aur ; 2.65; 11000;occ; 67; 0;33552
16; 4512.9; 31-JUL-2008 01:52:50; Dark ; 46.0; 28; 12Bet Tau ; 1.65; 15200;occ; 92; 0;33552
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21; 5168.5; 31-JUL-2008 02:03:45; Dark ; 7.5; 7; 19Bet Ori ; 0.10; 14000;occ; 15; 0;33552
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5; 300.5; 31-JUL-2008 02:23:13; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;33553
6; 714.3; 31-JUL-2008 02:30:07; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;33553
7; 914.4; 31-JUL-2008 02:33:27; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;33553
8; 1103.3; 31-JUL-2008 02:36:36; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;33553
9; 1554.5; 31-JUL-2008 02:44:07; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;33553
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11; 2144.4; 31-JUL-2008 02:53:57; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;33553
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13; 2654.3; 31-JUL-2008 03:02:27; Bright; 41.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 82; 0;33553
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13; 714.7; 31-JUL-2008 04:10:43; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33554
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12; 301.9; 31-JUL-2008 05:44:26; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;33555
13; 715.2; 31-JUL-2008 05:51:20; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33555

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19; 2653.6; 31-JUL-2008 06:23:38; Bright; 39.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 79; 0;33555
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13; 4639.8; 31-JUL-2008 22:02:08; Dark ; 38.0; 176; 23Zet Tau ; 3.02; 22000;occ; 76; 0;33564
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