

GOMOS Daily Report 10-SEP-2009

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	16SEP2009 04:57:16
Data source version	GOMOS/5.00
Start time of products	10SEP2009 00:13:50
Stop time of products	10SEP2009 23:58:31
Store outputs in DB	Yes
Nb of level 1b prods	95
Nb of prods with errors	1

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

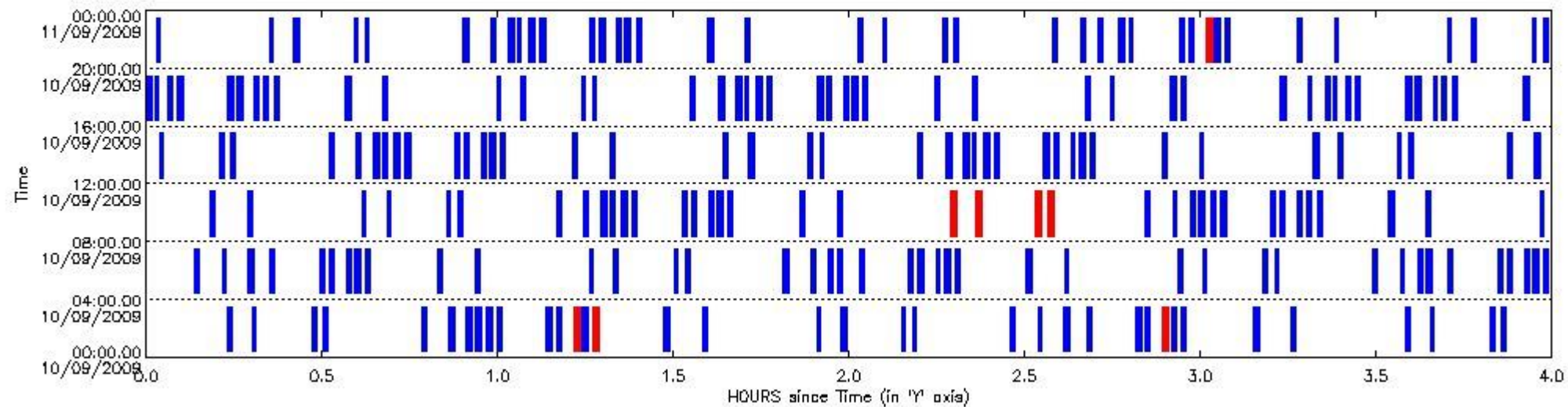
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

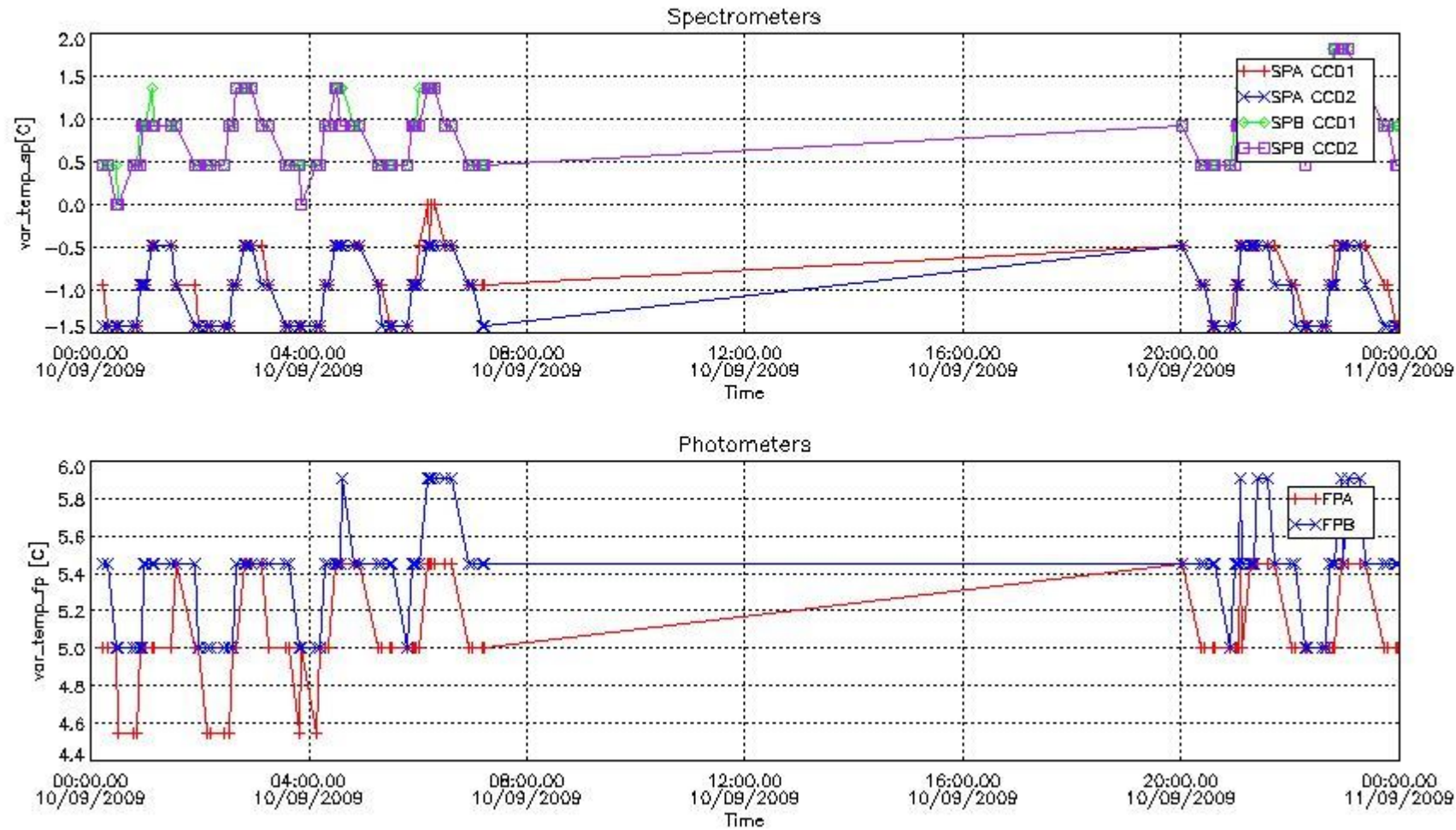
UTC start time	Star name	Star ID	Orbit
10-SEP-2009 01:12:58	1ZetCMa	177	39363
10-SEP-2009 01:16:15	AlpCol	108	39363
10-SEP-2009 02:53:35	1ZetCMa	177	39364
10-SEP-2009 10:17:26	54AlpPeg	90	39369
10-SEP-2009 10:21:39	44EtaPeg	164	39369
10-SEP-2009 10:31:54	11BetCas	74	39369
10-SEP-2009 10:33:51	27GamCas	76	39369
10-SEP-2009 23:00:57	1ZetCMa	177	39376

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_1PNPDE20090910_001350_000000422082_00231_39363_7446.N1	10-SEP-2009 00:13:50	Bright	42.000	90	54Alp Peg	2.4870	11000.	84	39363	No
2	GOM_TRA_1PNPDE20090910_001803_000000392082_00231_39363_7447.N1	10-SEP-2009 00:18:03	Bright	39.000	164	44Eta Peg	2.9480	5400.0	78	39363	No
3	GOM_TRA_1PNPDE20090910_002820_000000412082_00231_39363_7448.N1	10-SEP-2009 00:28:20	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	39363	No

63	GOM_TRA_1PNPDE20090910_202512_000000572082_00243_39375_8487.N1	10-SEP-2009 20:25:12	Bright	57.000	164	44Eta Peg	2.9480	5400.0	114	39375	No
64	GOM_TRA_1PNPDE20090910_203525_000000422082_00243_39375_8488.N1	10-SEP-2009 20:35:25	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	39375	No
65	GOM_TRA_1PNPDE20090910_203720_000000442082_00243_39375_8489.N1	10-SEP-2009 20:37:20	Bright	43.500	76	27Gam Cas	2.3000	30000.	87	39375	No
66	GOM_TRA_1PNPDE20090910_205406_000000512082_00243_39375_8490.N1	10-SEP-2009 20:54:06	Bright	51.000	42	34Bet Aur	1.9000	10200.	102	39375	No
67	GOM_TRA_1PNPDE20090910_205854_000000432082_00243_39375_8491.N1	10-SEP-2009 20:58:54	Bright	43.000	24	66Alp Gem	1.5800	10200.	86	39375	No
68	GOM_TRA_1PNPDE20090910_210152_000000572082_00243_39375_8492.N1	10-SEP-2009 21:01:52	Twilight	56.500	170	27Eps Gem	3.0000	9700.0	113	39375	No
69	GOM_TRA_1PNPDE20090910_210324_000000272082_00243_39375_8493.N1	10-SEP-2009 21:03:24	Twilight	27.000	151	13Mu Gem	2.8900	3000.0	54	39375	No
70	GOM_TRA_1PNPDE20090910_210521_000000602082_00243_39375_8633.N1	10-SEP-2009 21:05:21	Twilight	60.000	44	24Gam Gem	1.9280	11000.	120	39375	Yes
71	GOM_TRA_1PNPDE20090910_210709_000000592082_00243_39375_8634.N1	10-SEP-2009 21:07:09	Twilight	59.000	8	10Alp CMi	0.40000	6500.0	118	39375	No
72	GOM_TRA_1PNPDE20090910_211541_000000532082_00243_39375_8635.N1	10-SEP-2009 21:15:41	Dark	52.500	1	9Alp CMa	-1.4400	11000.	105	39375	No
73	GOM_TRA_1PNPDE20090910_211720_000000572082_00243_39375_8636.N1	10-SEP-2009 21:17:20	Dark	56.500	47	2Bet CMa	1.9760	28000.	113	39375	No
74	GOM_TRA_1PNPDE20090910_212018_000000452082_00243_39375_8637.N1	10-SEP-2009 21:20:18	Dark	44.500	177	1Zet CMa	3.0220	26000.	89	39375	No
75	GOM_TRA_1PNPDE20090910_212337_000000502082_00243_39375_8638.N1	10-SEP-2009 21:23:37	Dark	49.500	108	Alp Col	2.6520	15200.	99	39375	No
76	GOM_TRA_1PNPDE20090910_213549_000000562082_00244_39376_8639.N1	10-SEP-2009 21:35:49	Dark	56.000	157	The1Eri	2.9060	9300.0	112	39376	No
77	GOM_TRA_1PNPDE20090910_214214_000000462082_00244_39376_8640.N1	10-SEP-2009 21:42:14	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	39376	No
78	GOM_TRA_1PNPDE20090910_220133_000000492082_00244_39376_8641.N1	10-SEP-2009 22:01:33	Bright	48.500	90	54Alp Peg	2.4870	11000.	97	39376	No
79	GOM_TRA_1PNPDE20090910_220547_000000372082_00244_39376_8642.N1	10-SEP-2009 22:05:47	Bright	37.000	164	44Eta Peg	2.9480	5400.0	74	39376	No
80	GOM_TRA_1PNPDE20090910_221600_000000432082_00244_39376_8643.N1	10-SEP-2009 22:16:00	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	39376	No
81	GOM_TRA_1PNPDE20090910_221756_000000452082_00244_39376_8644.N1	10-SEP-2009 22:17:56	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	39376	No
82	GOM_TRA_1PNPDE20090910_223442_000000532082_00244_39376_8645.N1	10-SEP-2009 22:34:42	Bright	53.000	42	34Bet Aur	1.9000	10200.	106	39376	No
83	GOM_TRA_1PNPDE20090910_223929_000000472082_00244_39376_8646.N1	10-SEP-2009 22:39:29	Bright	47.000	24	66Alp Gem	1.5800	10200.	94	39376	No
84	GOM_TRA_1PNPDE20090910_224228_000000572082_00244_39376_8647.N1	10-SEP-2009 22:42:28	Twilight	56.500	170	27Eps Gem	3.0000	9700.0	113	39376	No
85	GOM_TRA_1PNPDE20090910_224558_000000592082_00244_39376_8648.N1	10-SEP-2009 22:45:58	Twilight	59.000	44	24Gam Gem	1.9280	11000.	118	39376	No
86	GOM_TRA_1PNPDE20090910_224746_000000462082_00244_39376_8649.N1	10-SEP-2009 22:47:46	Twilight	45.500	8	10Alp CMi	0.40000	6500.0	91	39376	No
87	GOM_TRA_1PNPDE20090910_225618_000000542082_00244_39376_8778.N1	10-SEP-2009 22:56:18	Dark	54.000	1	9Alp CMa	-1.4400	11000.	108	39376	No
88	GOM_TRA_1PNPDE20090910_225757_000000522082_00244_39376_8779.N1	10-SEP-2009 22:57:57	Dark	52.000	47	2Bet CMa	1.9760	28000.	104	39376	No
89	GOM_TRA_1PNPDE20090910_230414_000000482082_00244_39376_8780.N1	10-SEP-2009 23:04:14	Dark	48.000	108	Alp Col	2.6520	15200.	96	39376	No
90	GOM_TRA_1PNPDE20090910_231626_000000562082_00245_39377_8781.N1	10-SEP-2009 23:16:26	Dark	56.000	157	The1Eri	2.9060	9300.0	112	39377	No
91	GOM_TRA_1PNPDE20090910_232250_000000462082_00245_39377_8782.N1	10-SEP-2009 23:22:50	Straylight	45.500	84	Alp Phe	2.3970	4500.0	91	39377	No
92	GOM_TRA_1PNPDE20090910_234209_000000422082_00245_39377_8783.N1	10-SEP-2009 23:42:09	Bright	41.500	90	54Alp Peg	2.4870	11000.	83	39377	No
93	GOM_TRA_1PNPDE20090910_234622_000000372082_00245_39377_8784.N1	10-SEP-2009 23:46:22	Bright	37.000	164	44Eta Peg	2.9480	5400.0	74	39377	No
94	GOM_TRA_1PNPDE20090910_235635_000000402082_00245_39377_8785.N1	10-SEP-2009 23:56:35	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	39377	No
95	GOM_TRA_1PNPDE20090910_235831_000000452082_00245_39377_8786.N1	10-SEP-2009 23:58:31	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	39377	No

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



4. Overview of dark signal processing per product

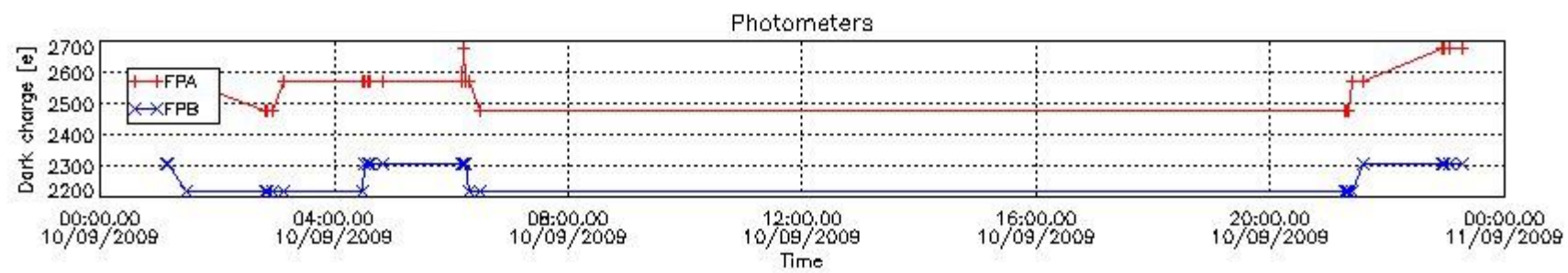
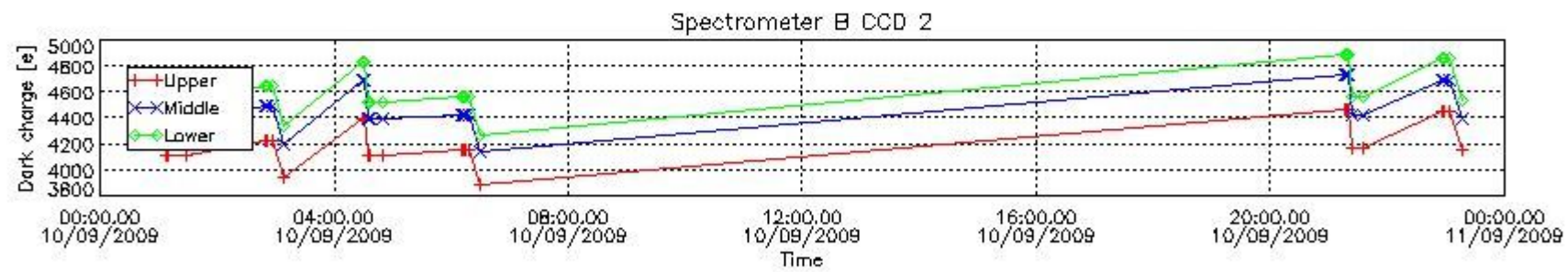
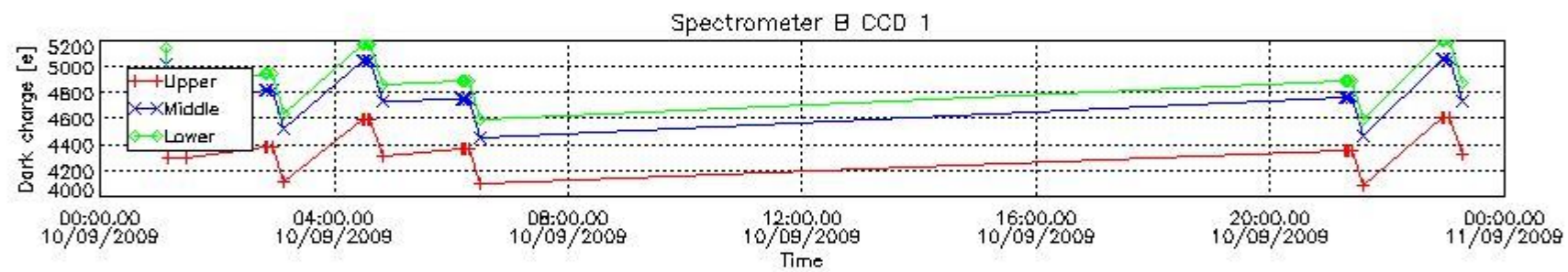
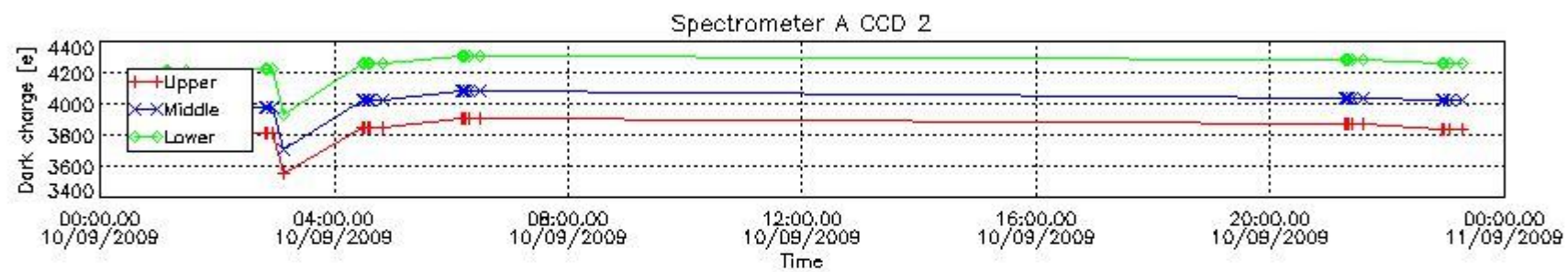
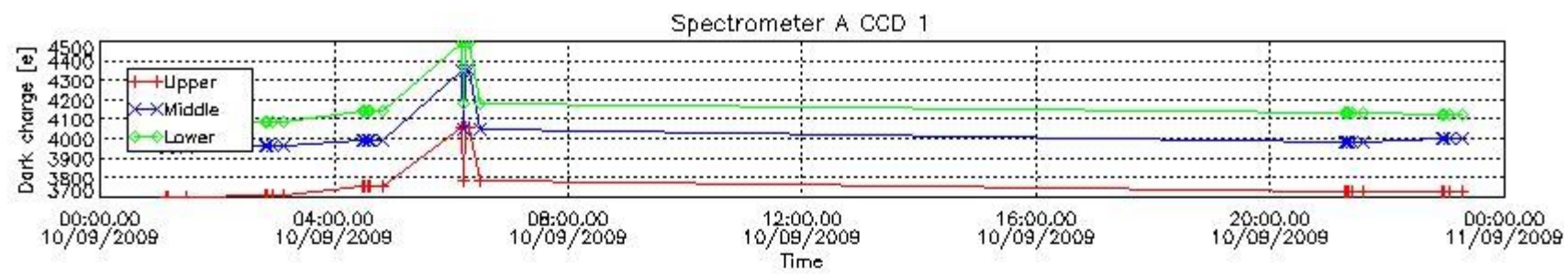
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20090910_200138_000000452082_00243_39375_8485.N1	DC map used
GOM_TRA_1PNPDE20090910_202057_000000422082_00243_39375_8486.N1	DC map used
GOM_TRA_1PNPDE20090910_202512_000000572082_00243_39375_8487.N1	DC map used
GOM_TRA_1PNPDE20090910_203525_000000422082_00243_39375_8488.N1	DC map used
GOM_TRA_1PNPDE20090910_203720_000000442082_00243_39375_8489.N1	DC map used
GOM_TRA_1PNPDE20090910_205406_000000512082_00243_39375_8490.N1	DC map used
GOM_TRA_1PNPDE20090910_205854_000000432082_00243_39375_8491.N1	DC map used
GOM_TRA_1PNPDE20090910_210152_000000572082_00243_39375_8492.N1	DC map used
GOM_TRA_1PNPDE20090910_210324_000000272082_00243_39375_8493.N1	DC map used

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



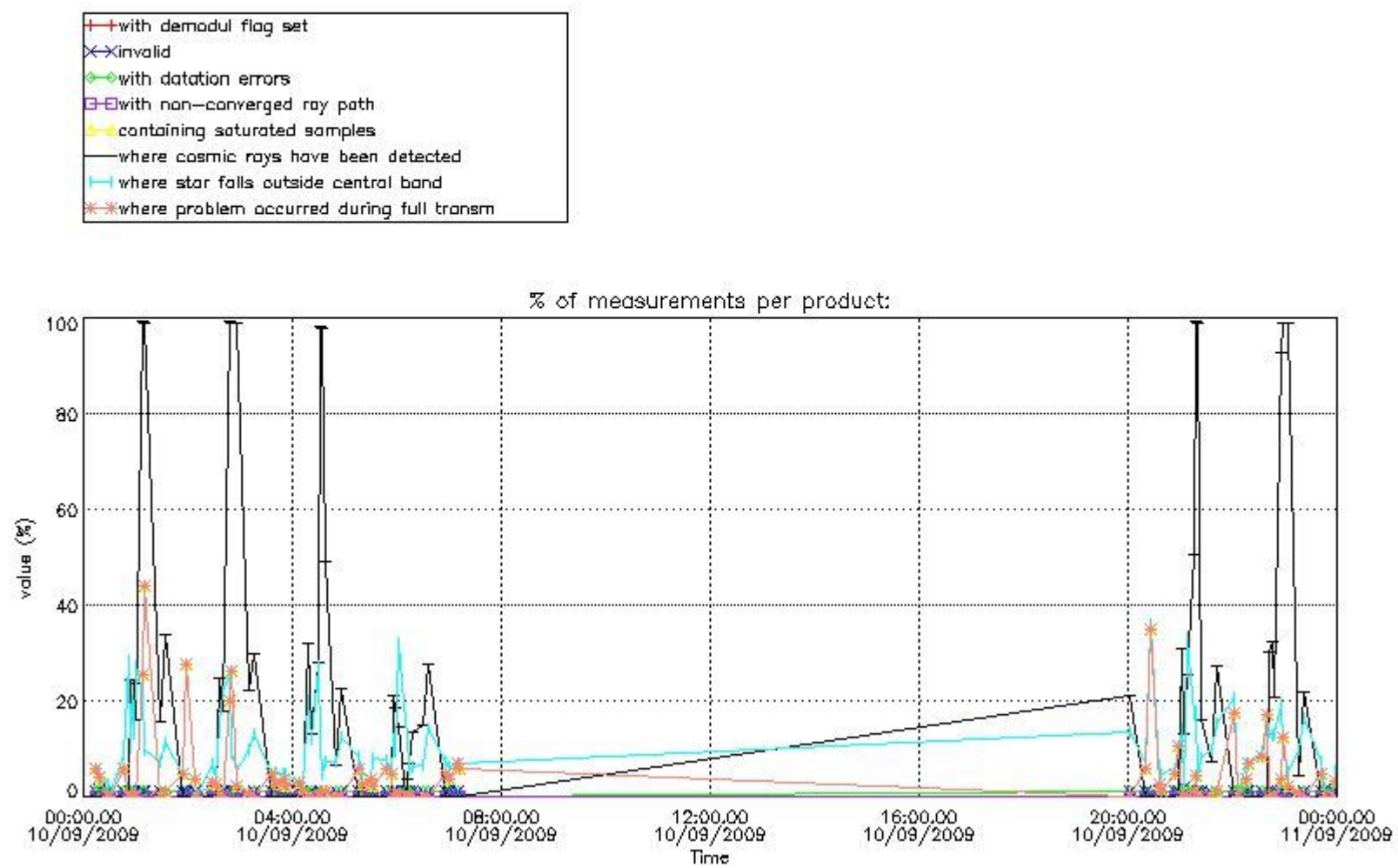
5. Demodulation flag and quality information monitoring

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.

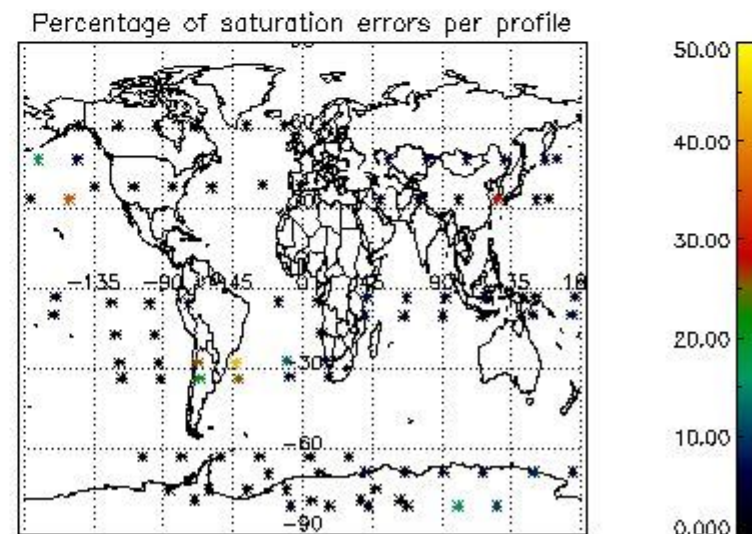
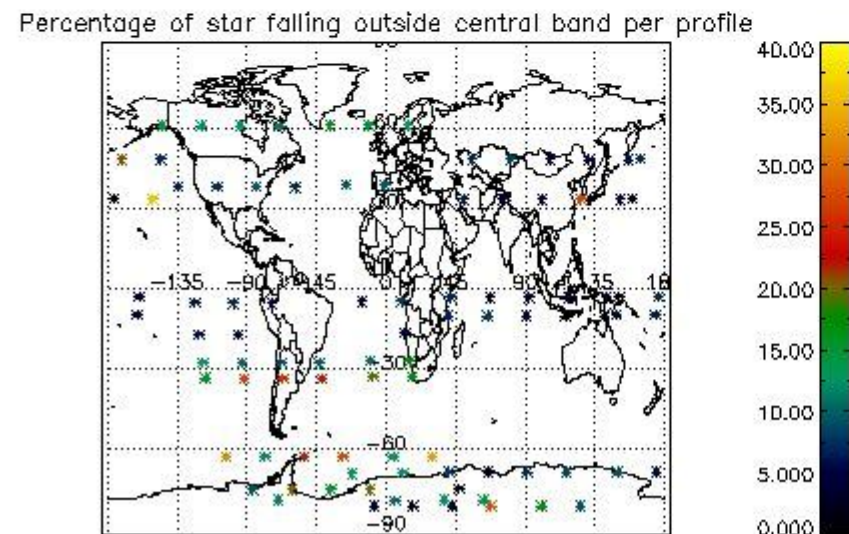
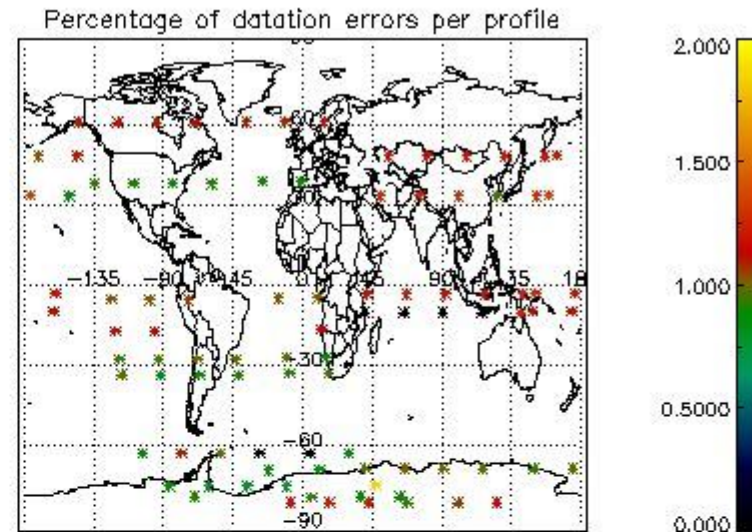
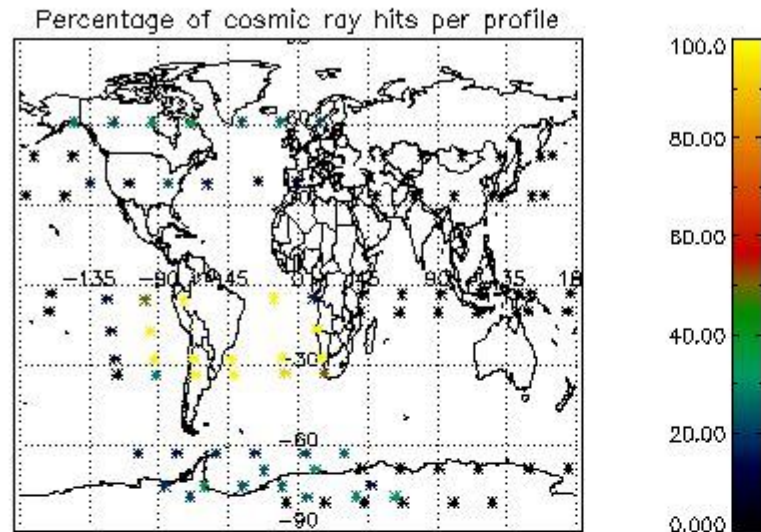
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	36.1702 %
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)



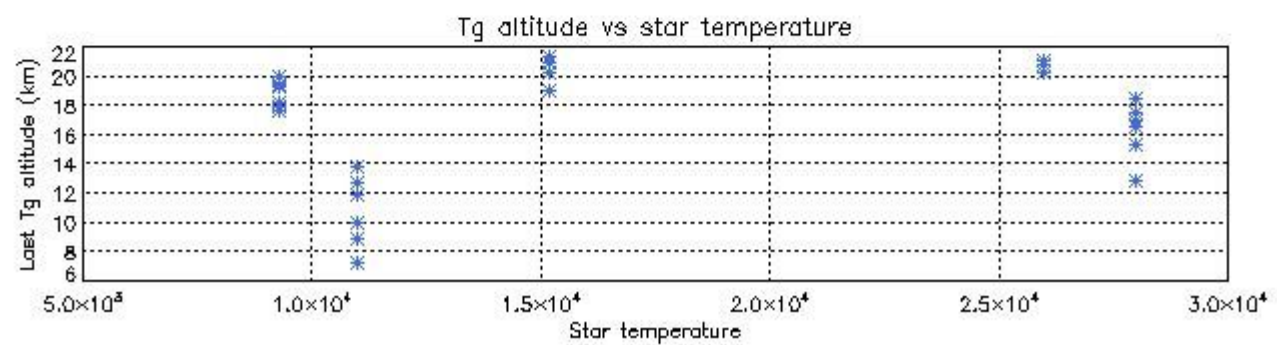
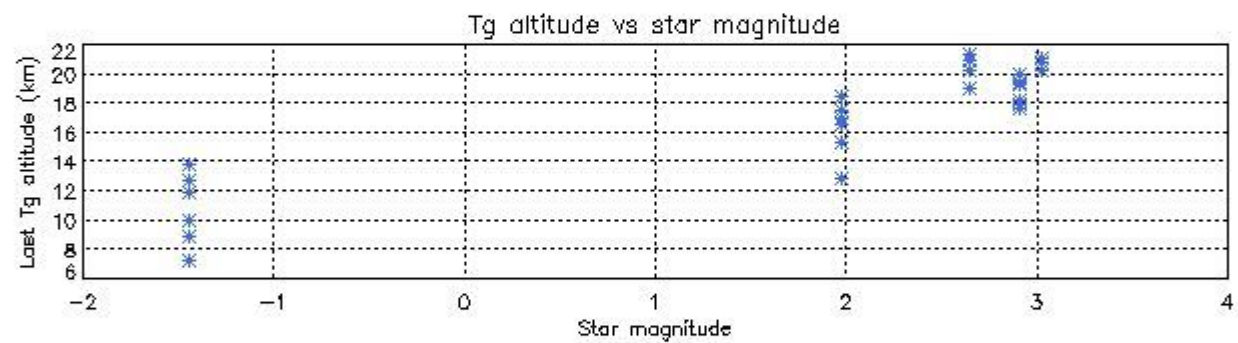
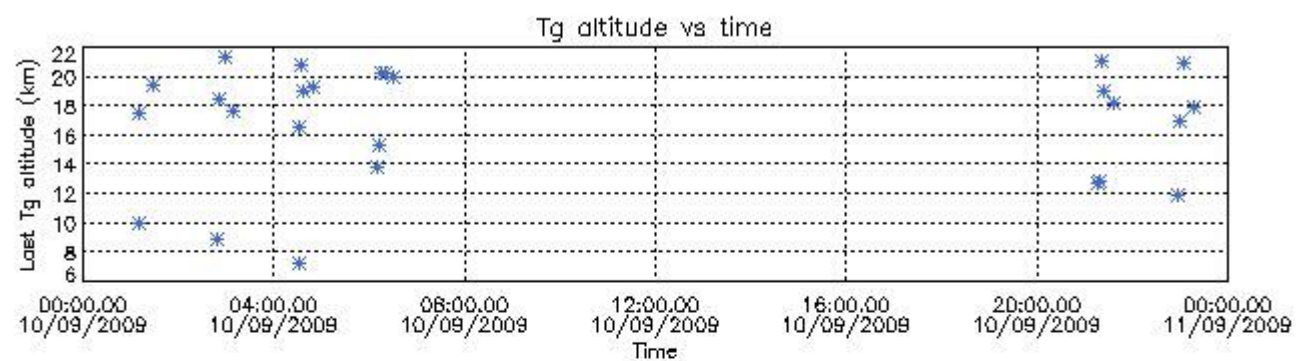
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.800	20.002	8.8110
St. deviation:	4.0187	4.8965	4.3059
Maximum:	21.368	29.372	14.043
Minimum:	7.2521	3.7925	4.0891
Number of data:	26.000	44.000	6.0000

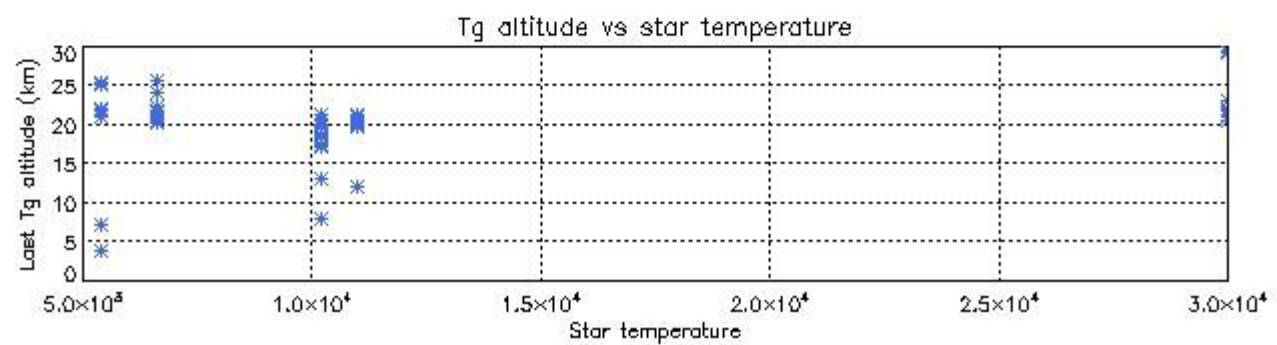
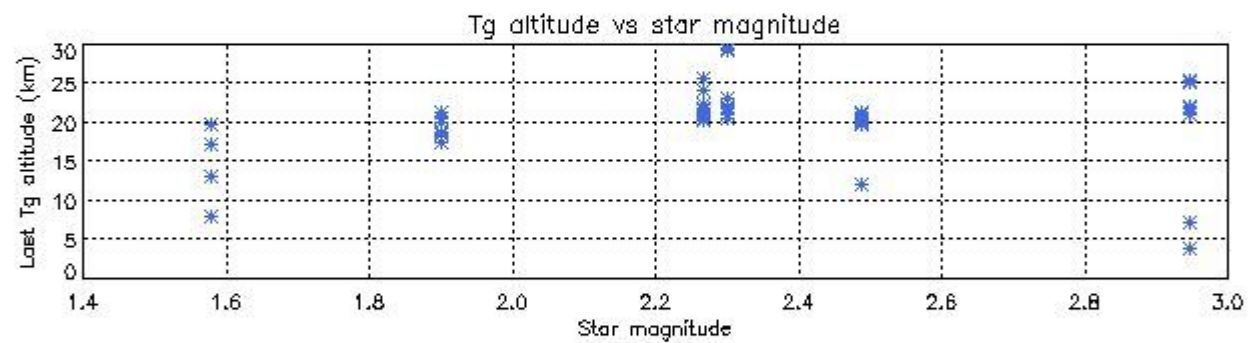
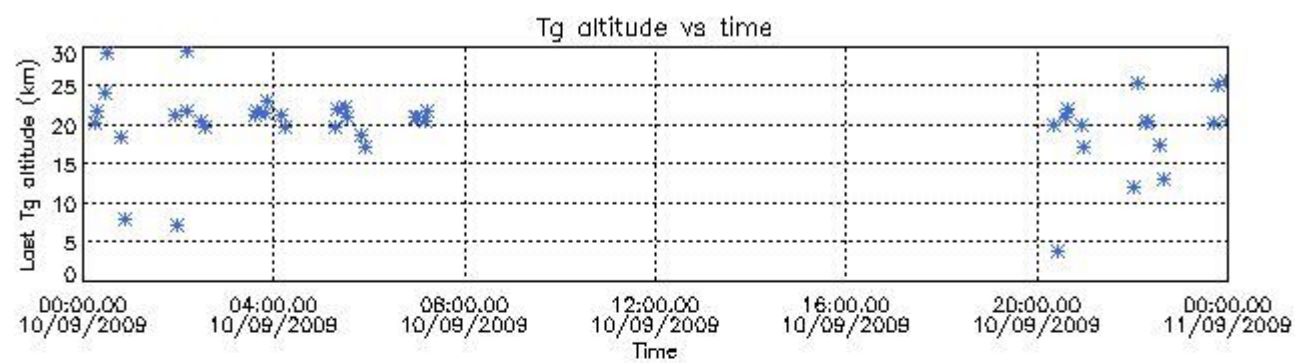
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



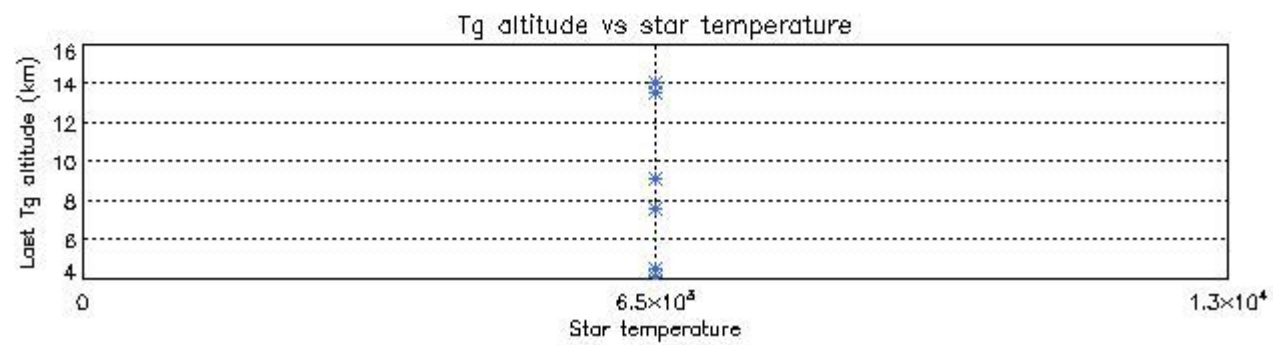
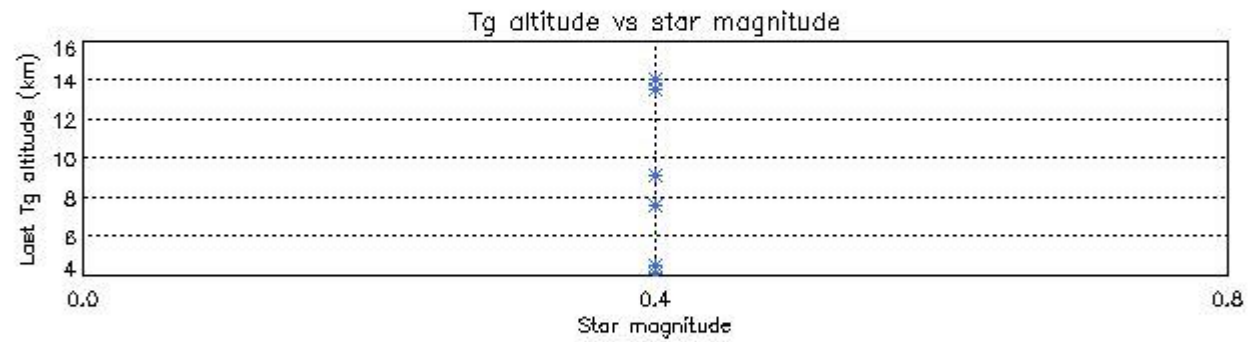
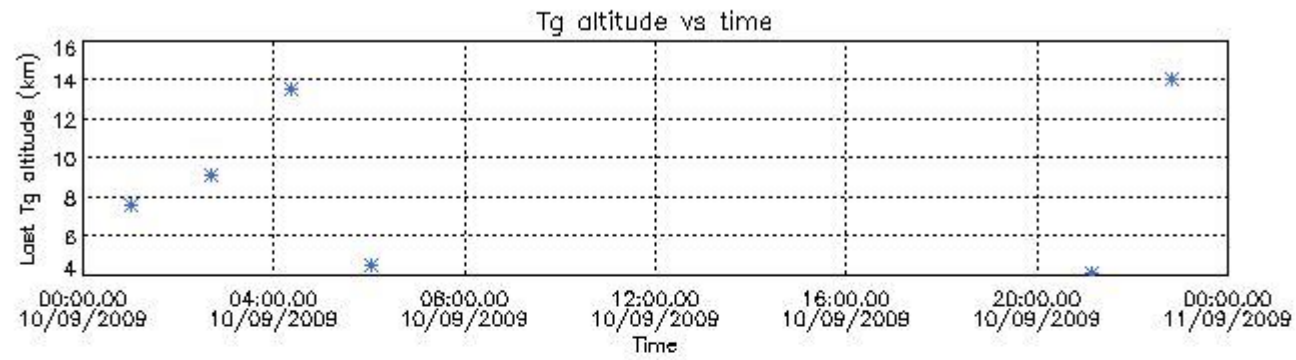
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

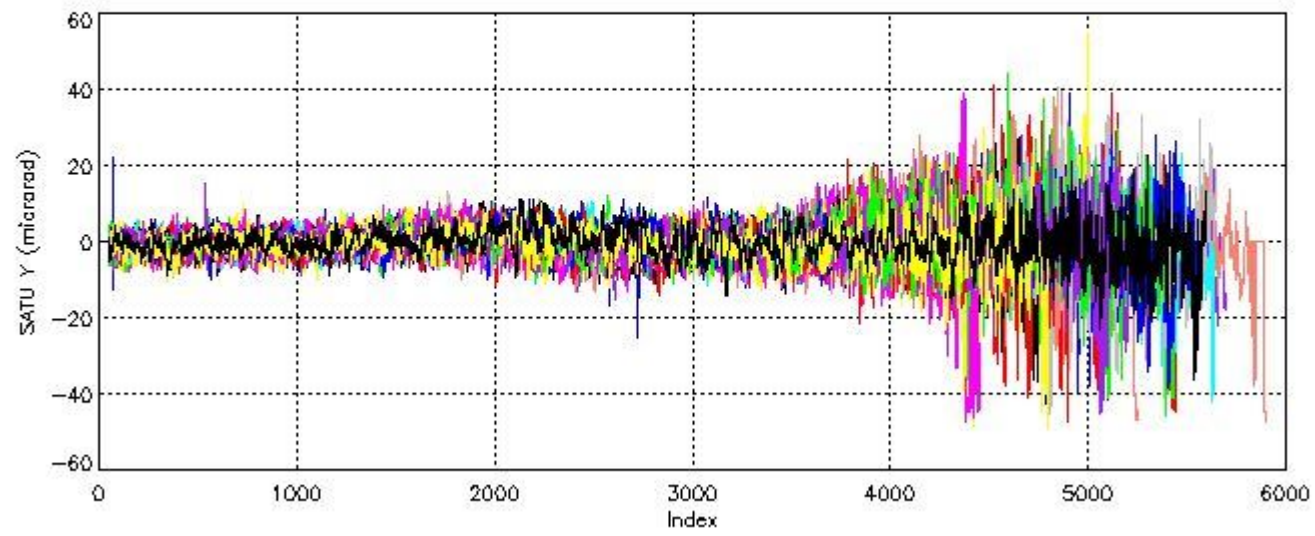
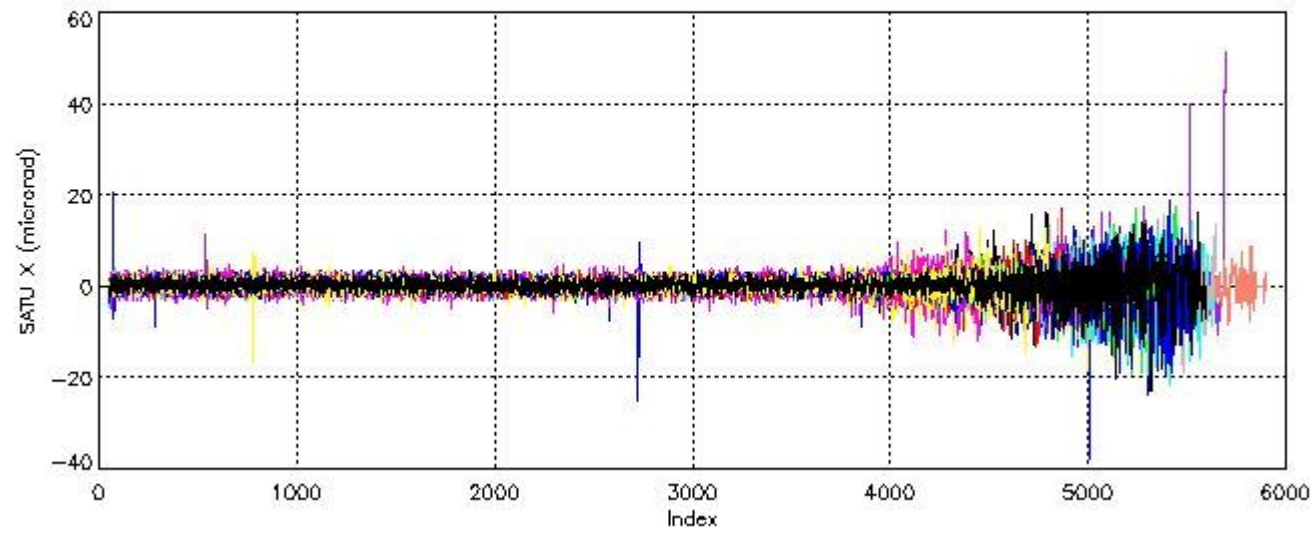


7. Star Acquisition and Tracking Unit (SATU)

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 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:	0.27036	-0.81160	0.25666	-0.67199
St. deviation:	0.78005	2.0987	0.80879	2.1364
Maximum:	20.400	22.100	5.0000	9.5000
Minimum:	-16.900	-12.400	-3.6000	-12.600

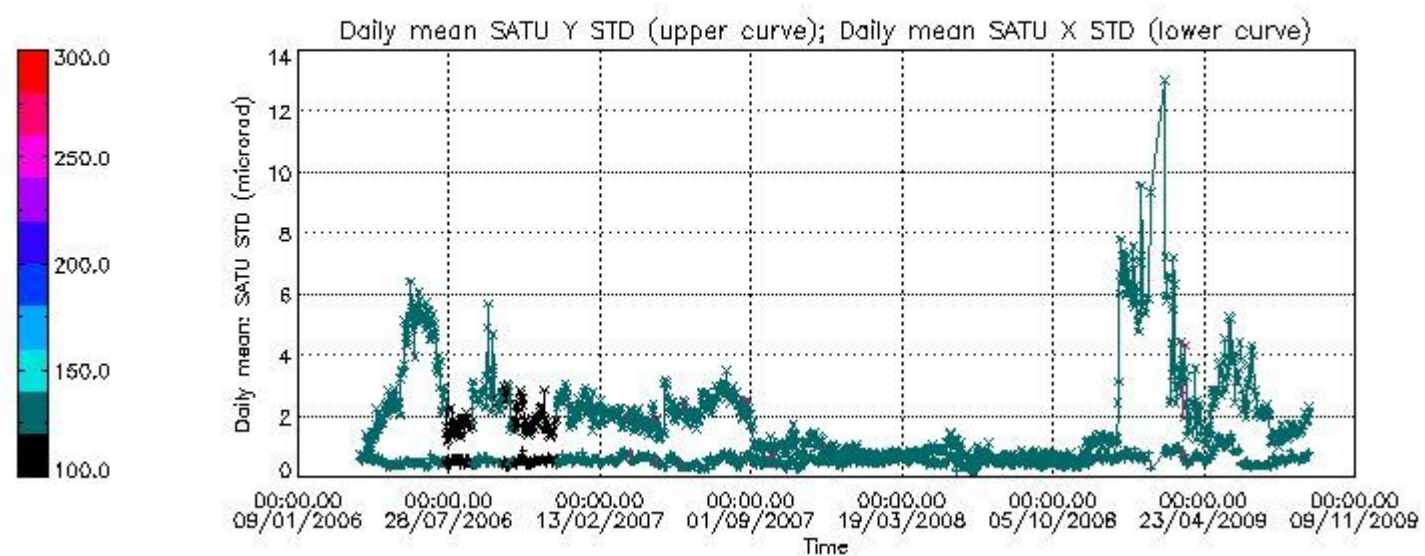
Number of data:	30750.	30750.	44450.	44450.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

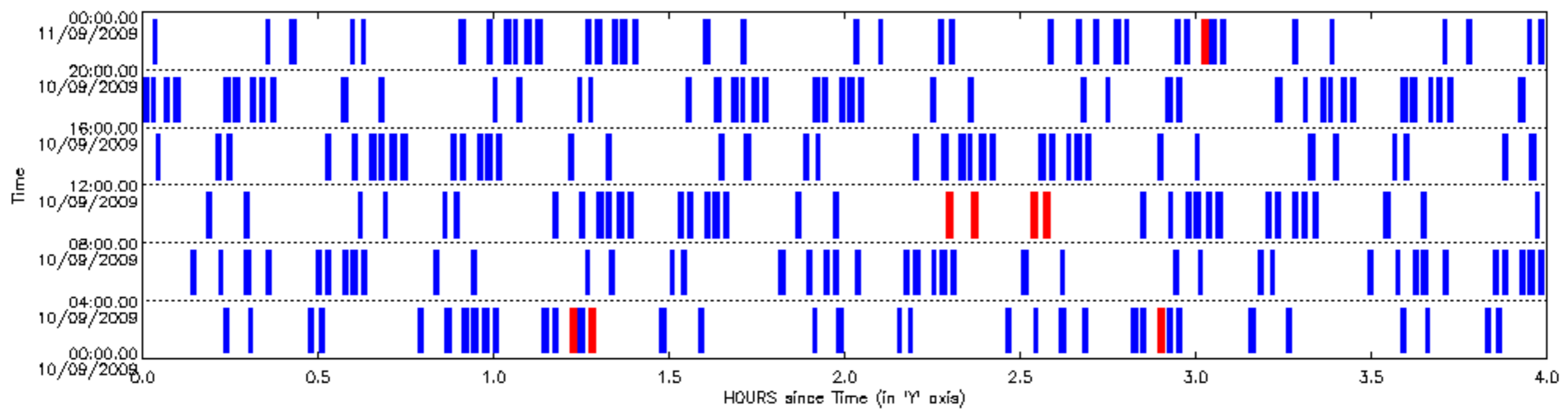
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

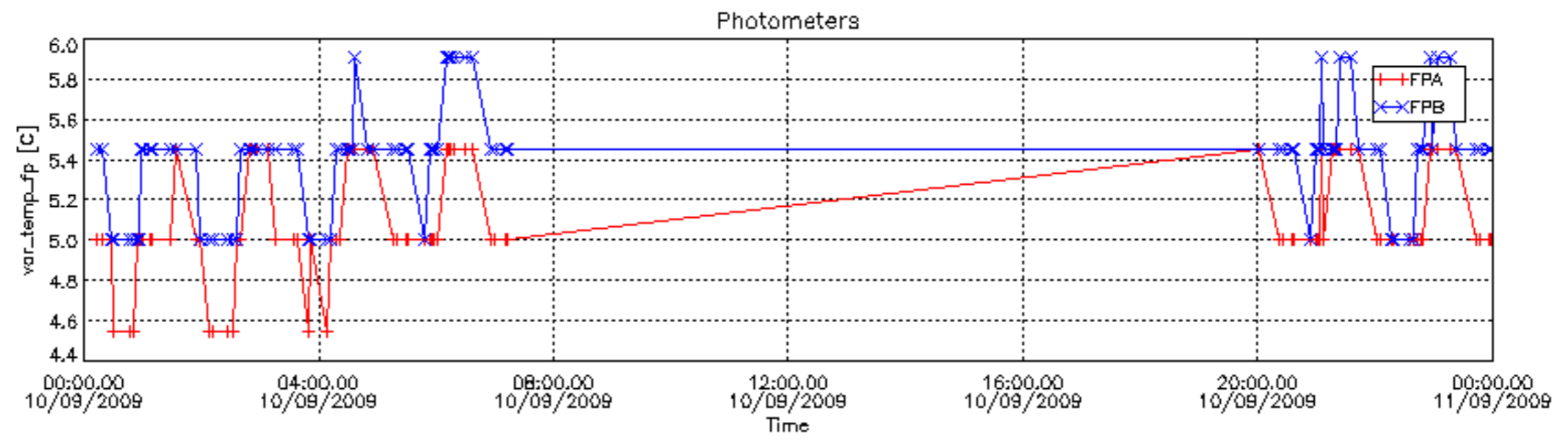
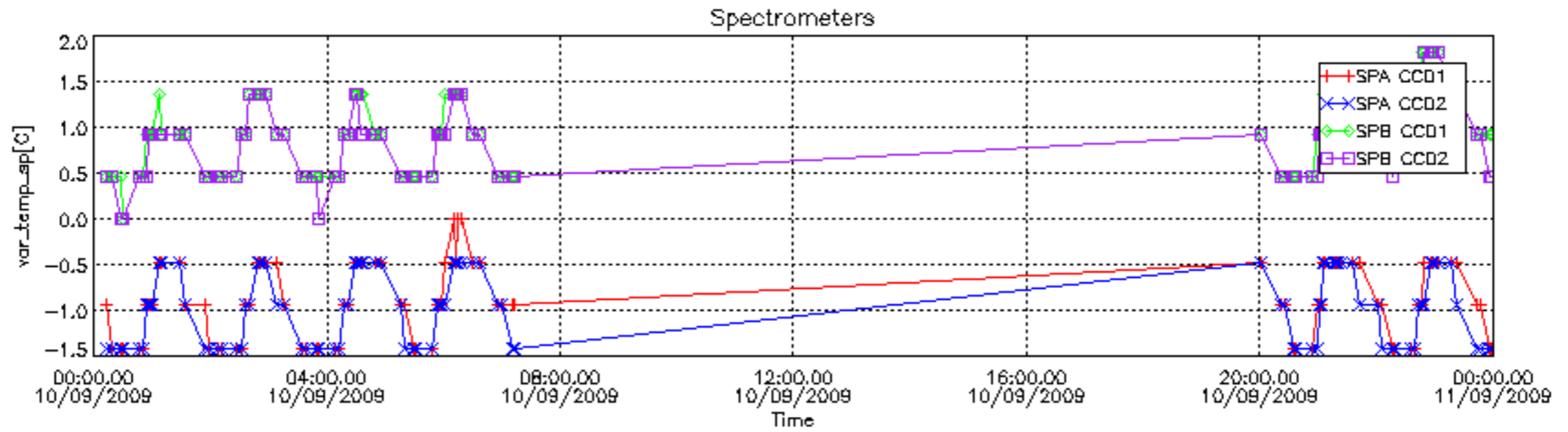


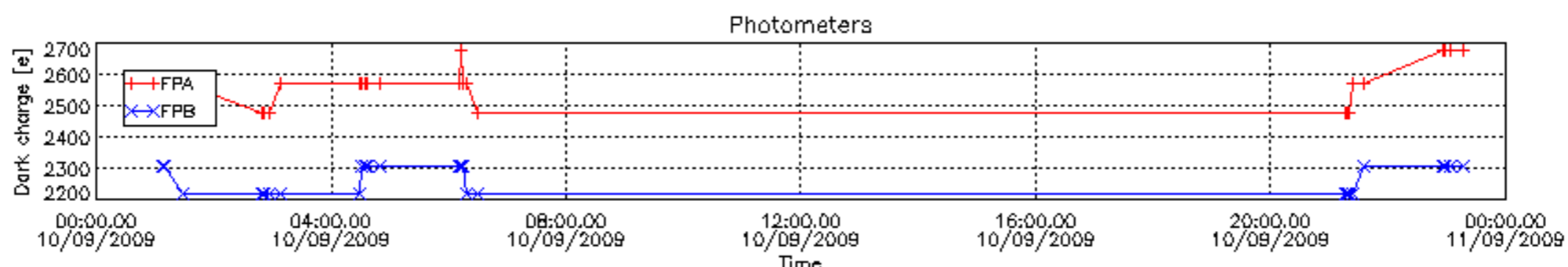
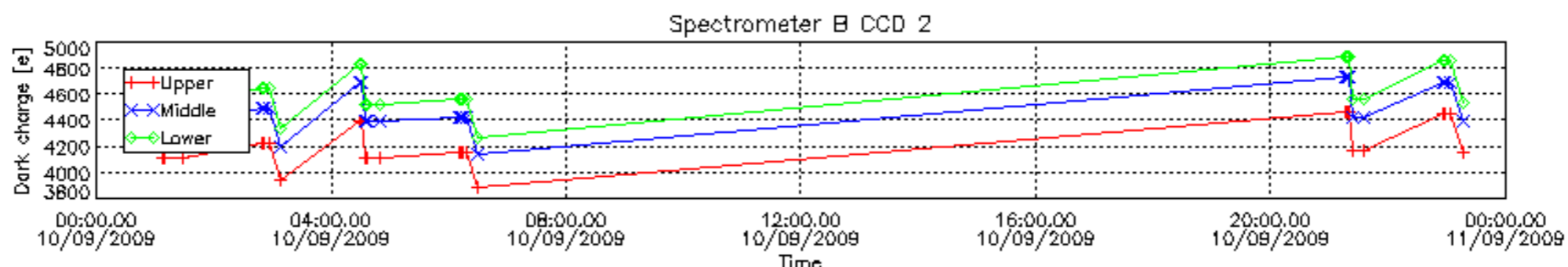
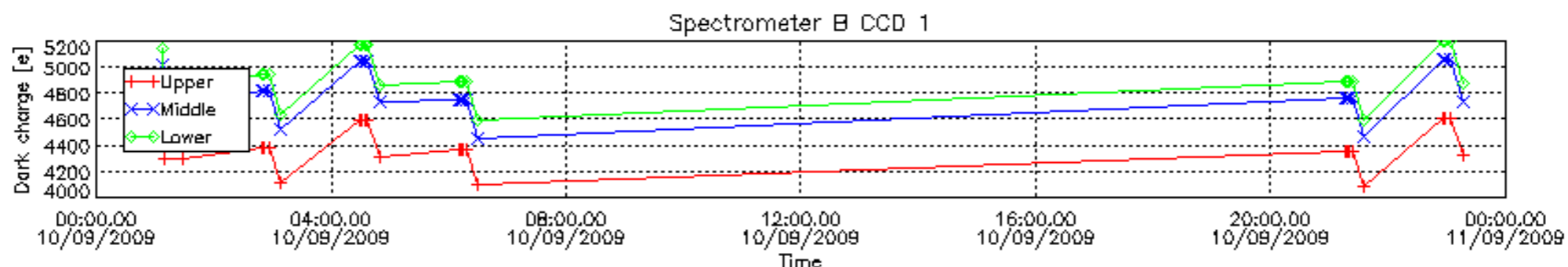
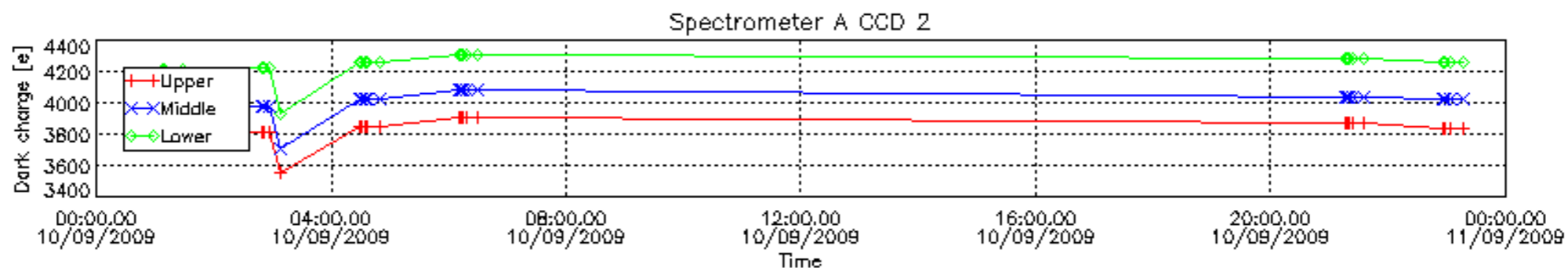
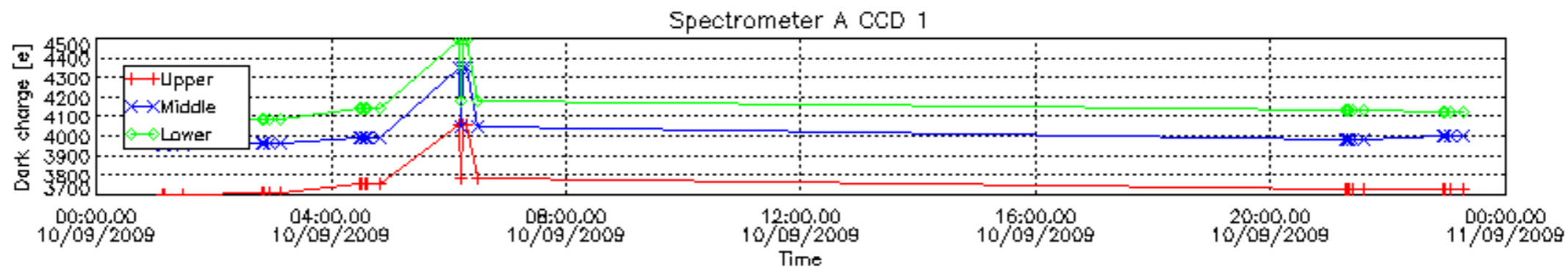
8. Auxiliary Data Files used for the production reported in section 2.4

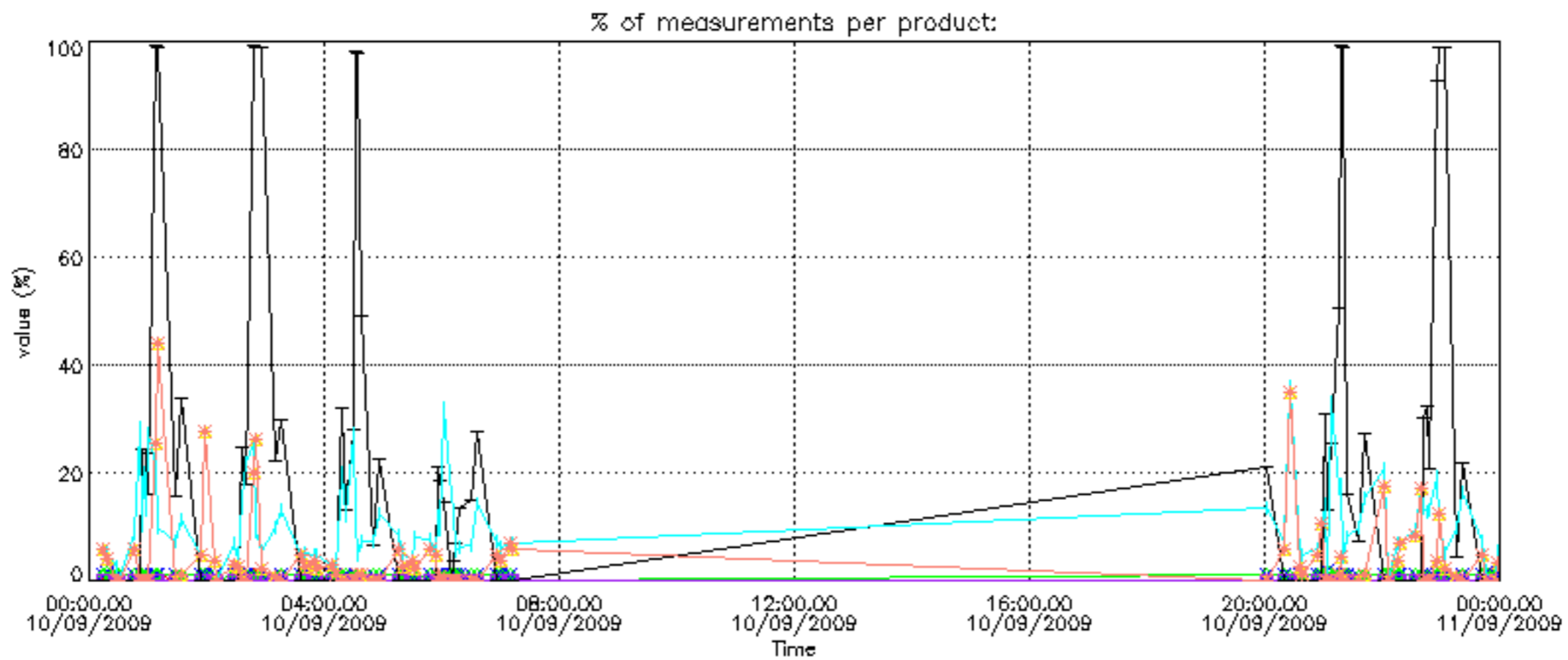
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	10-SEP-2009 00:13:50
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090907_104444_20090905_000000_20100101_000000	1	10-SEP-2009 00:13:50
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	10-SEP-2009 00:13:50
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	10-SEP-2009 00:13:50
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	10-SEP-2009 00:13:50
ECMWF_FILE	AUX_ECF_AXNECM20090909_064112_20090909_210000_20090910_090000	1	10-SEP-2009 00:13:50
ECMWF_FILE	AUX_ECF_AXNECM20090909_184115_20090910_030000_20090910_150000	32	10-SEP-2009 04:08:09
ECMWF_FILE	AUX_ECF_AXNECM20090910_064111_20090910_150000_20090911_030000	61	10-SEP-2009 20:01:38
ECMWF_FILE	AUX_ECF_AXNECM20090910_064111_20090910_210000_20090911_090000	70	10-SEP-2009 21:05:21
OPTIONAL_ECMWF_FILE	MISSING	1	10-SEP-2009 00:13:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090909_213737_000060572082_00229_39361_8727.N1	1	10-SEP-2009 00:13:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090909_231834_000060572082_00230_39362_8728.N1	11	10-SEP-2009 01:08:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090910_010450_000044632082_00231_39363_8729.N1	19	10-SEP-2009 02:27:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090910_022431_000051012082_00232_39364_8730.N1	32	10-SEP-2009 04:08:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090910_035451_000057382082_00233_39365_8731.N1	46	10-SEP-2009 05:48:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090910_195632_000038252082_00243_39375_8733.N1	61	10-SEP-2009 20:01:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090910_210536_000060572082_00243_39375_8734.N1	87	10-SEP-2009 22:56:18

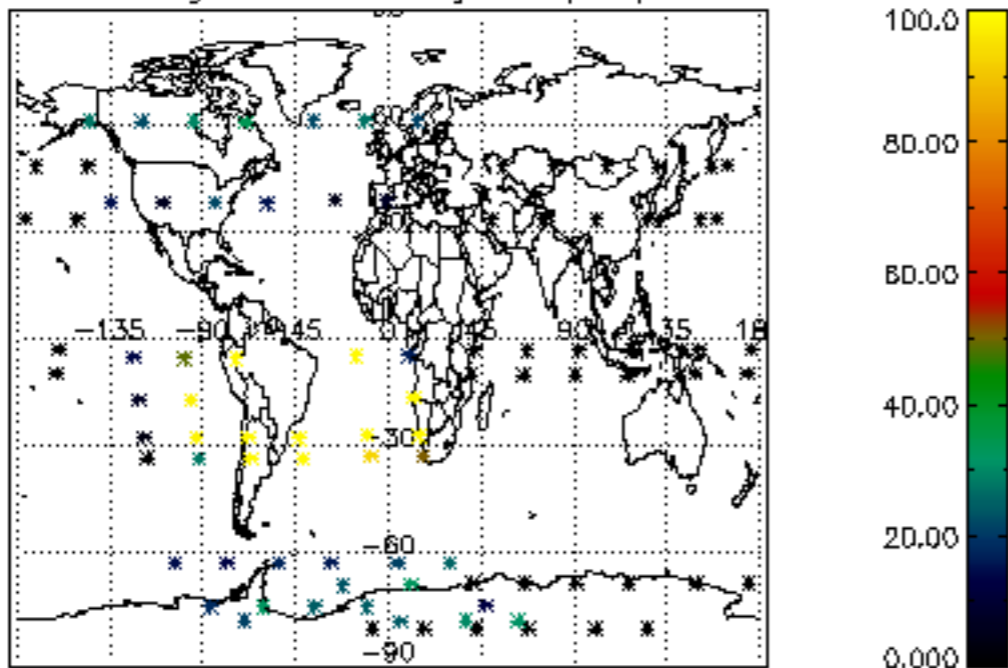




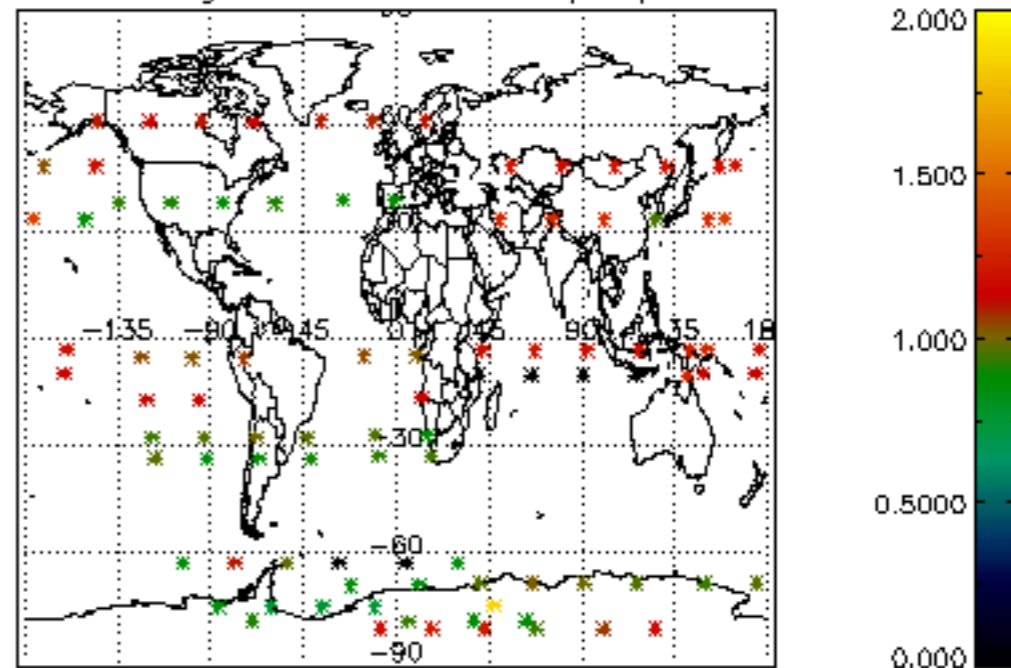




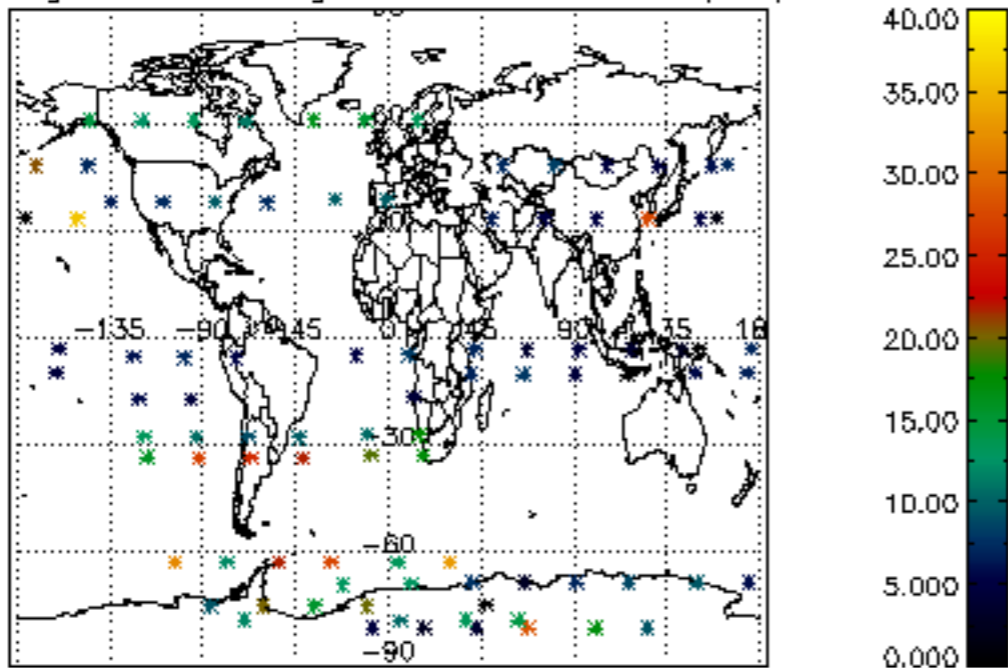
Percentage of cosmic ray hits per profile



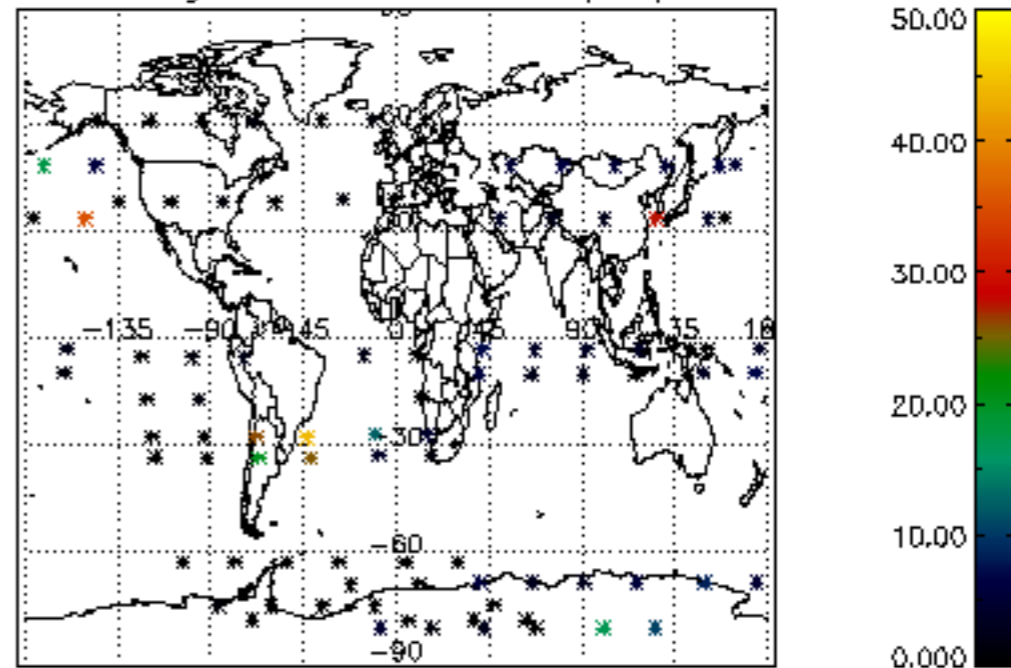
Percentage of datation errors per profile



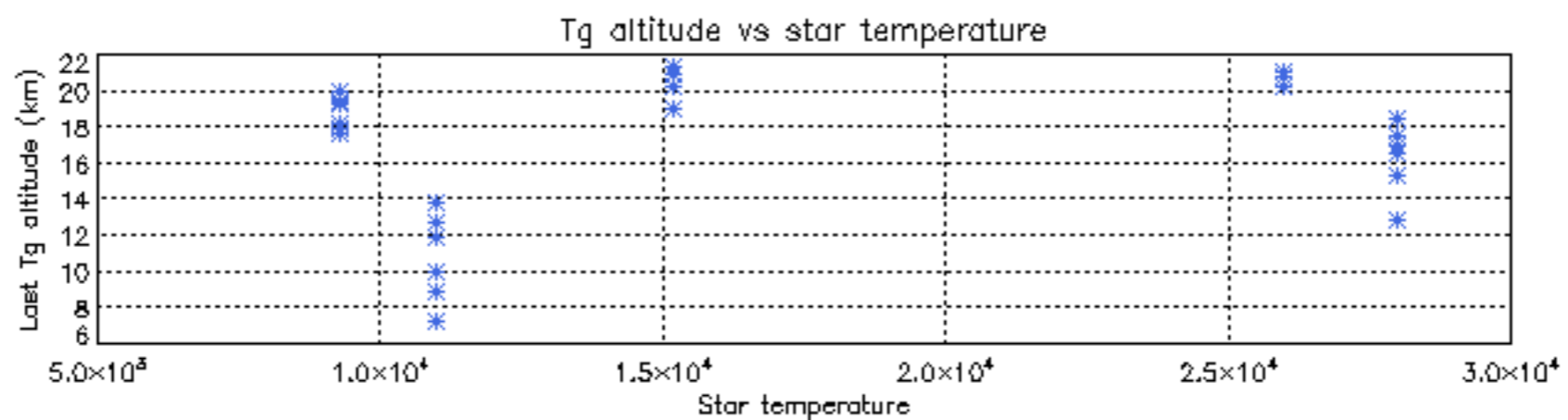
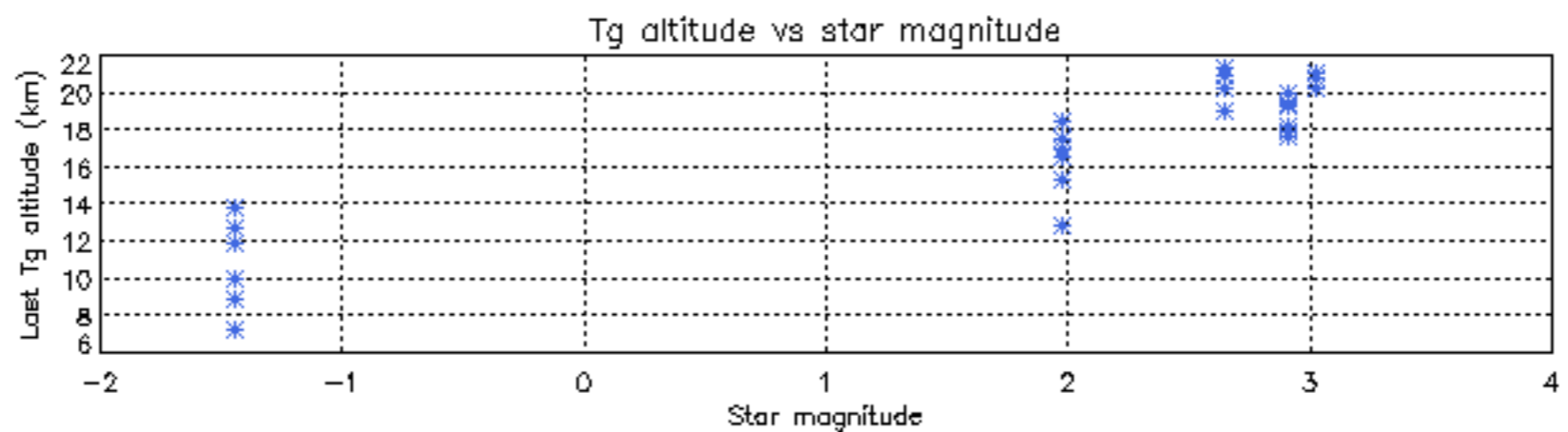
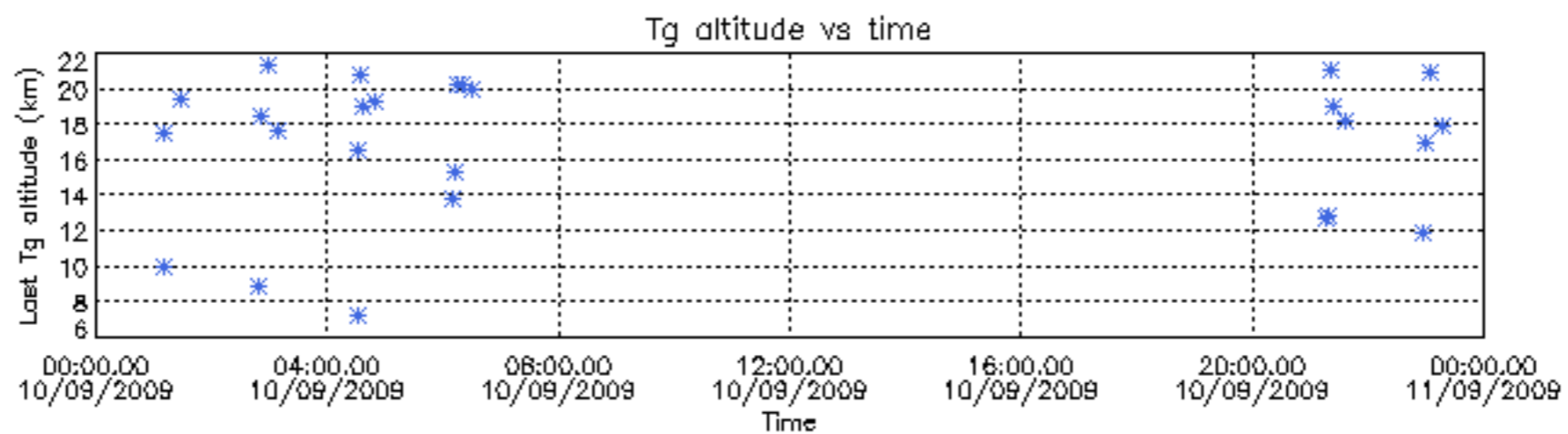
Percentage of star falling outside central band per profile



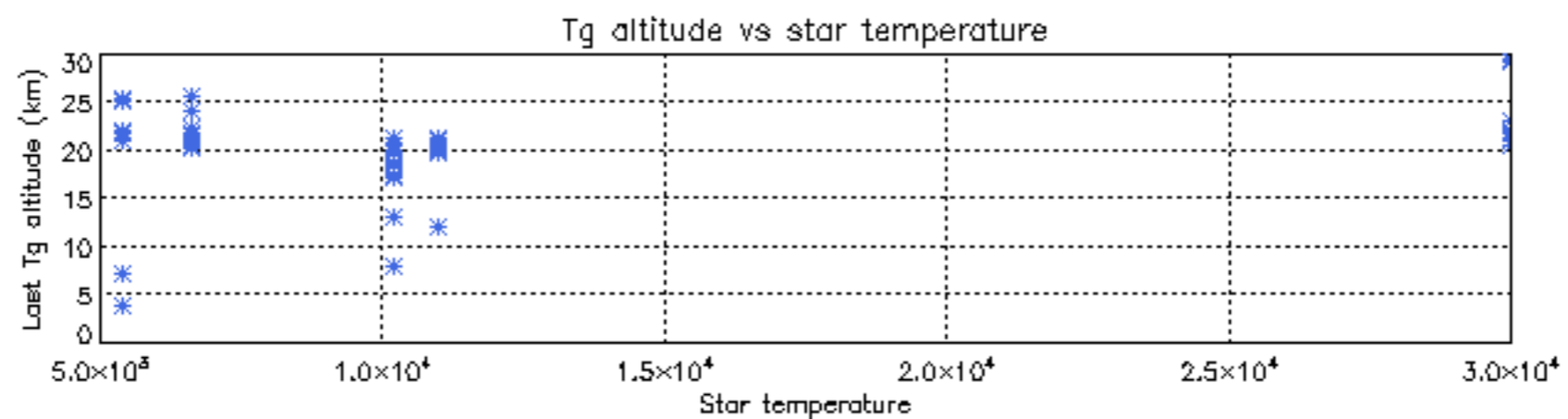
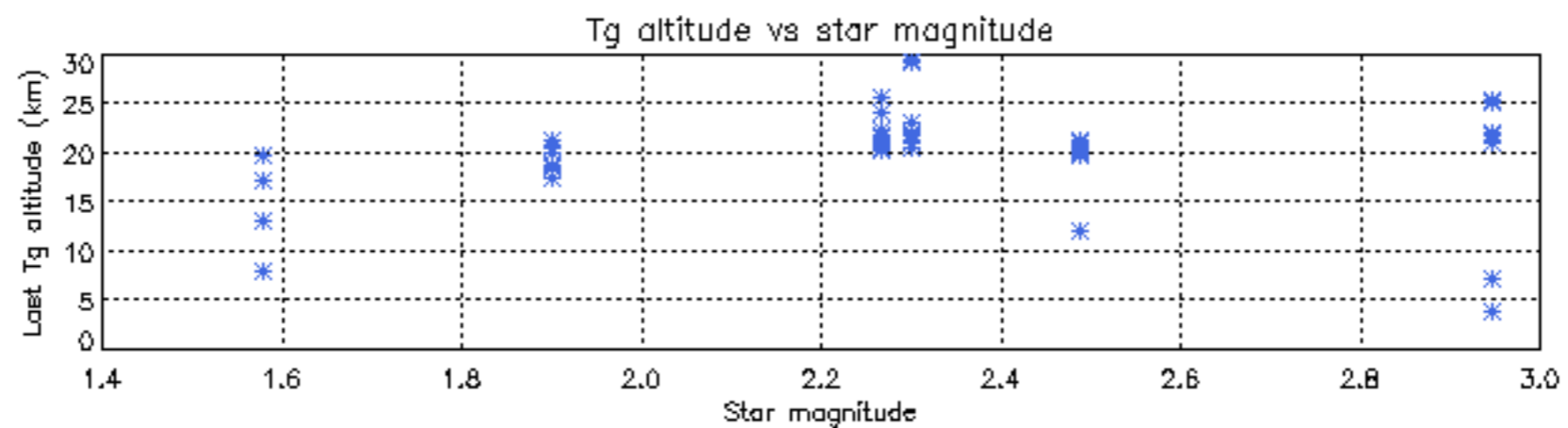
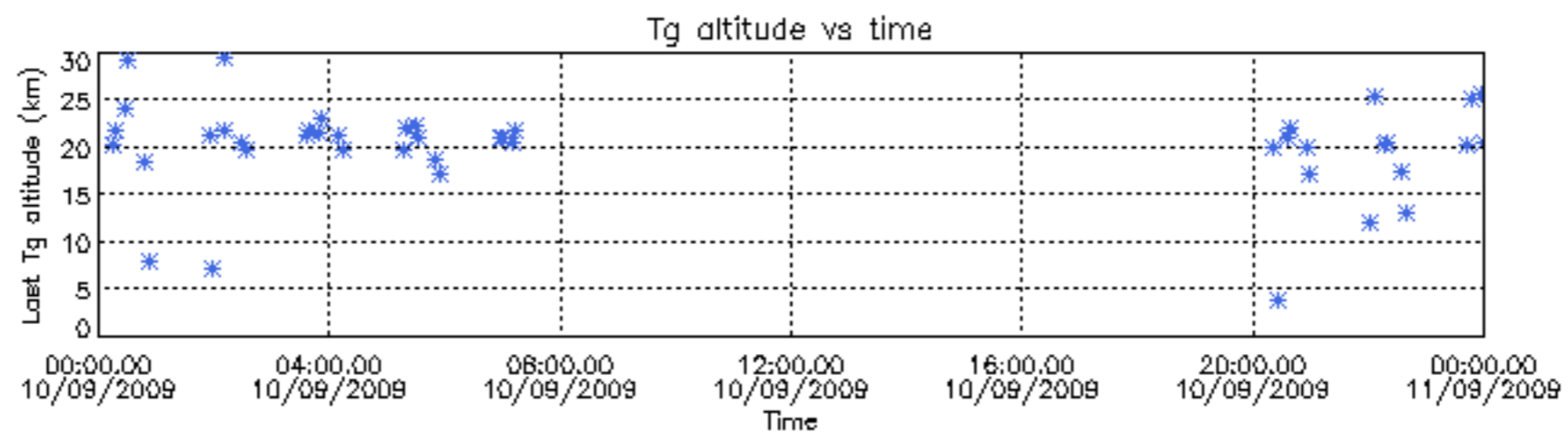
Percentage of saturation errors per profile



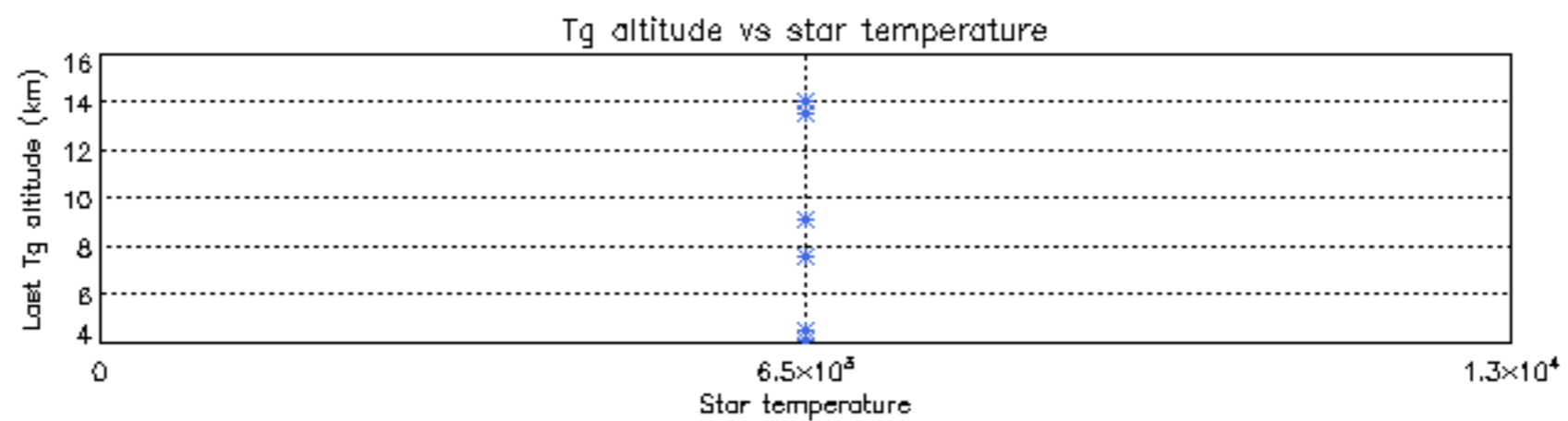
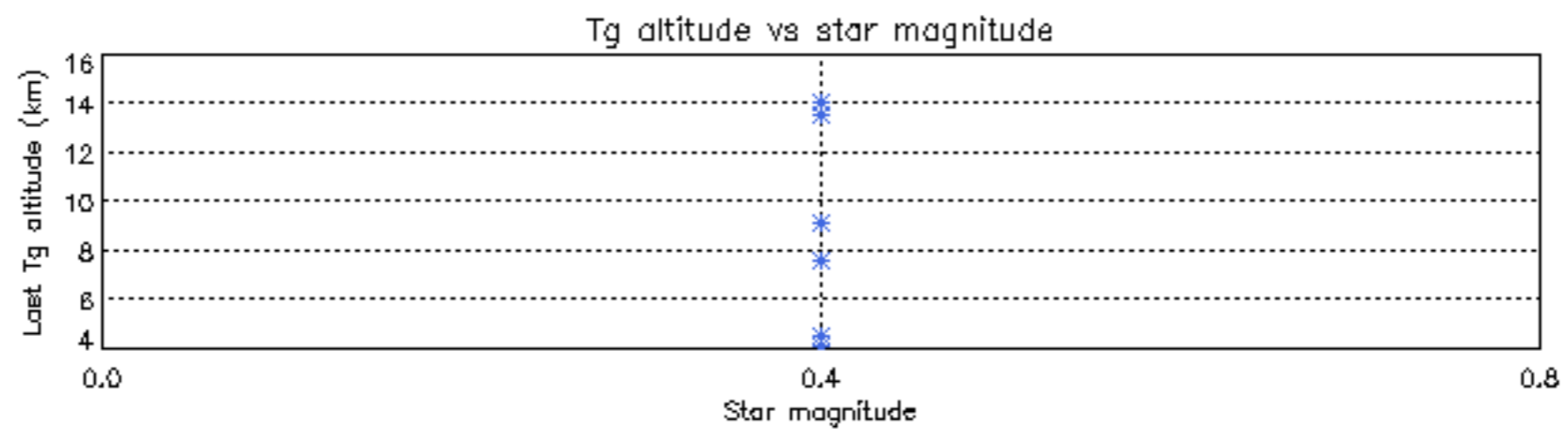
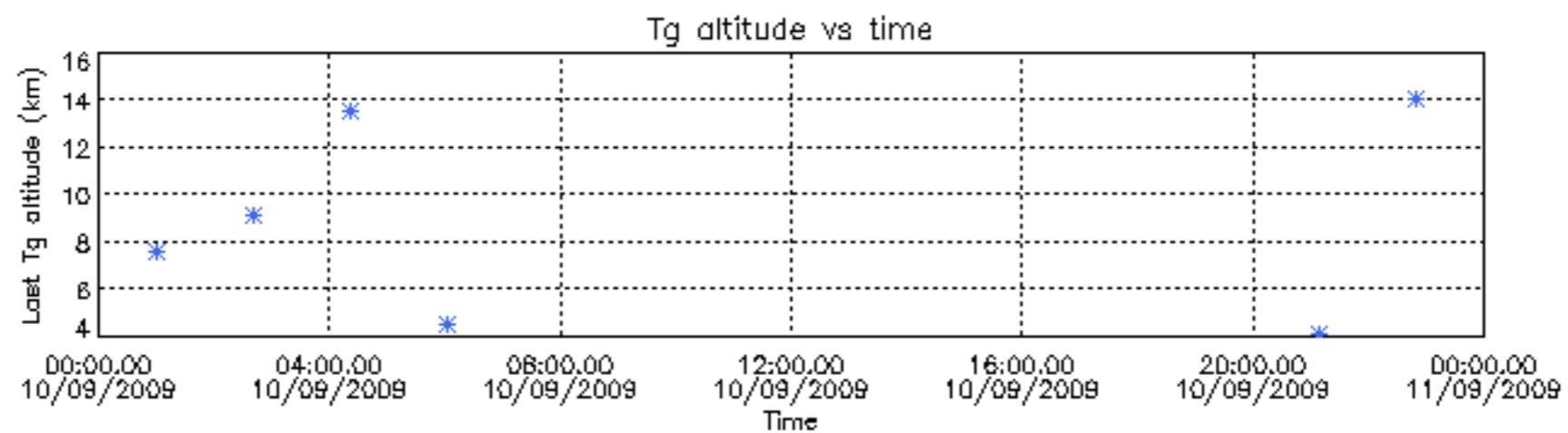
Tangent altitude at which the star is lost

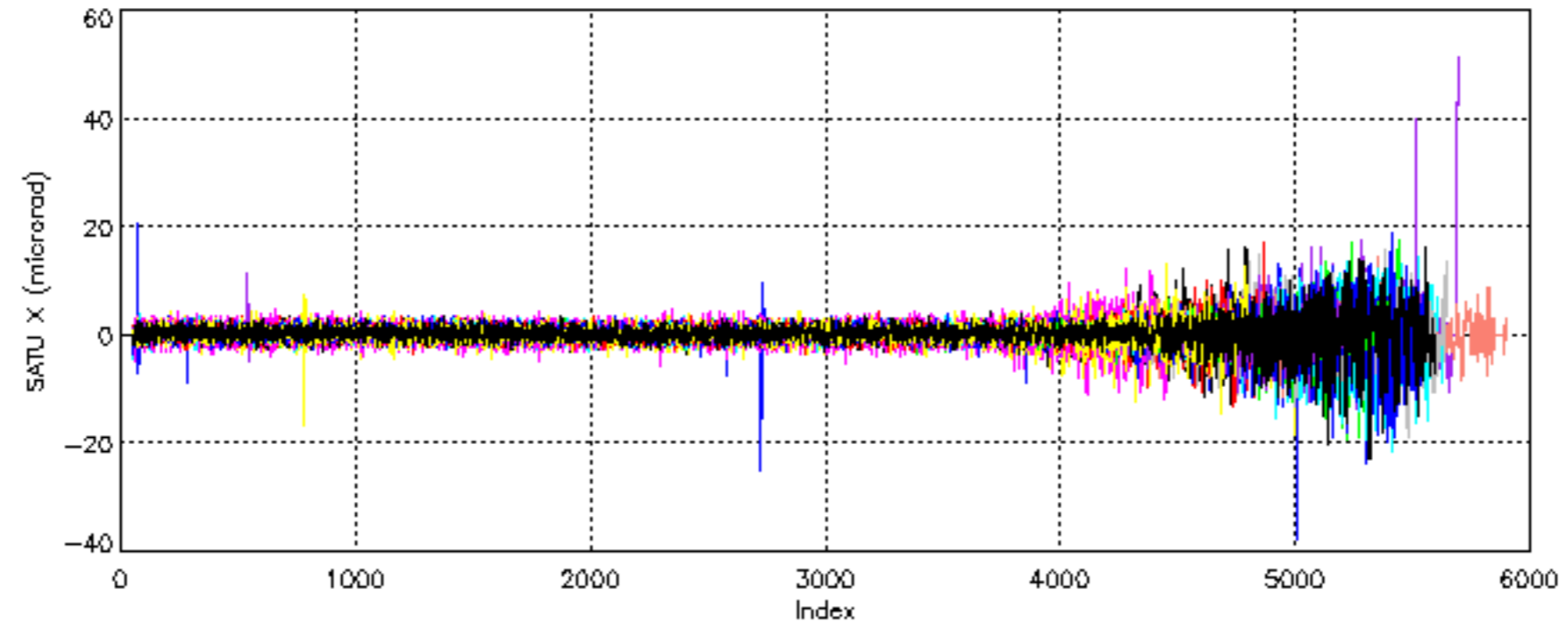


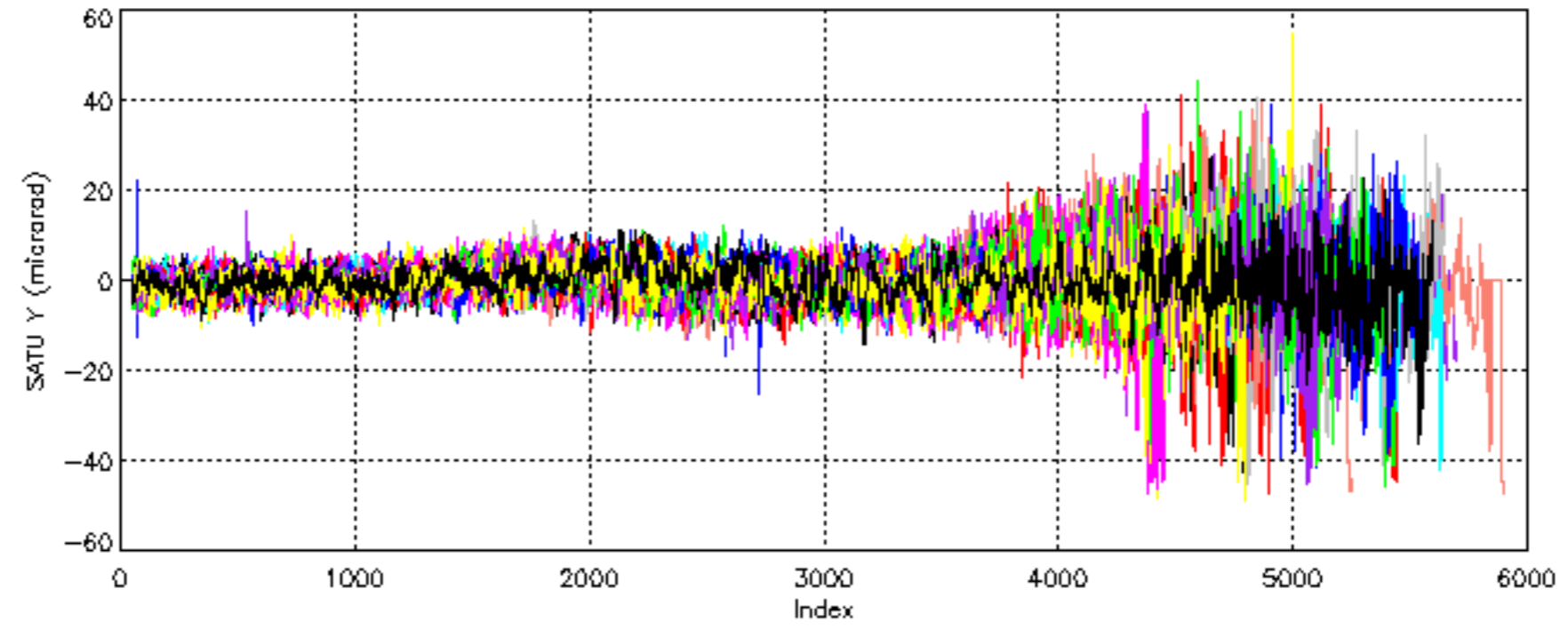
Tangent altitude at which the star is lost

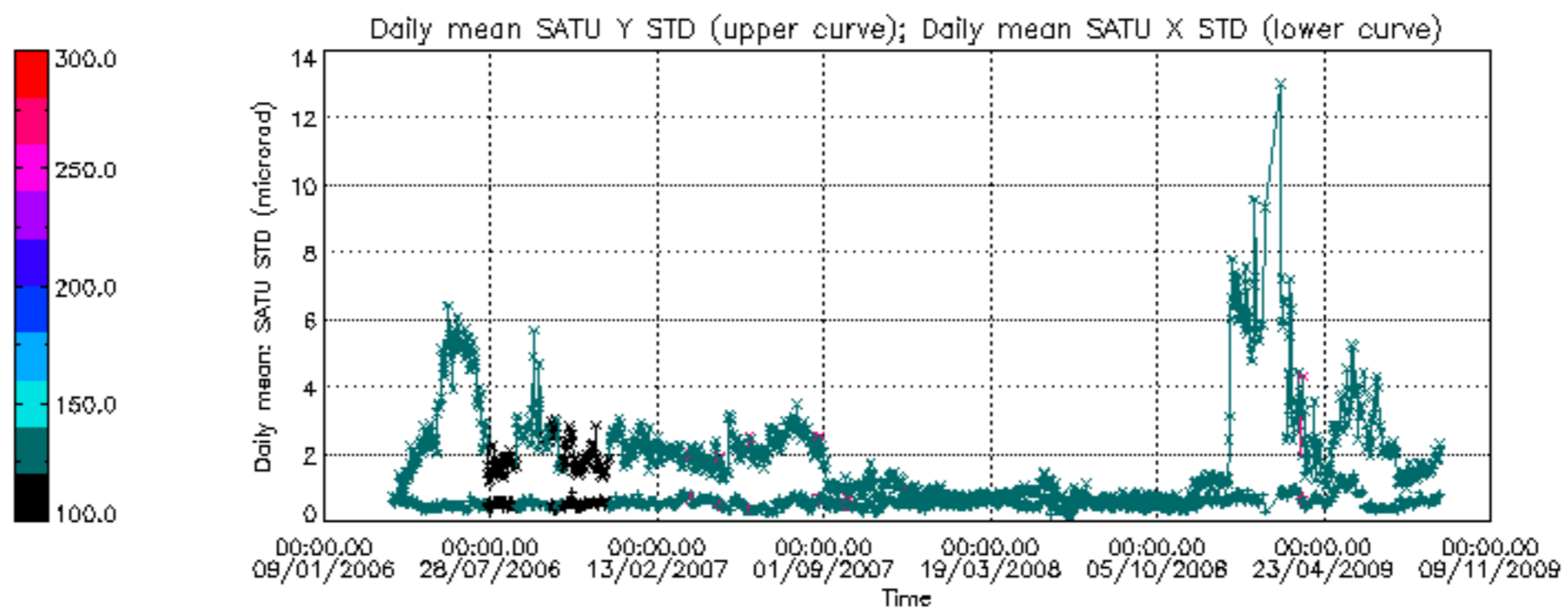


Tangent altitude at which the star is lost









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 2; -585.8; 01-SEP-2009 00:50:47; Dark ; 48.5; 47; 2Bet CMA ; 1.98; 28000;occ; 97; 0;39234
 3; -413.8; 01-SEP-2009 00:53:39; Dark ; 51.0; 101; 11Alp Lep ; 2.58; 7000;occ; 102; 0;39234
 4; -237.7; 01-SEP-2009 00:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39234
 5; 487.5; 01-SEP-2009 01:08:40; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39235
 6; 962.2; 01-SEP-2009 01:16:35; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39235
 7; 1329.7; 01-SEP-2009 01:22:43; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;39235
 8; 2249.9; 01-SEP-2009 01:38:03; Bright; 47.5; 90; 54Alp Peg ; 2.49; 11000;occ; 95; 0;39235
 9; 2501.4; 01-SEP-2009 01:42:14; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39235
 10; 3142.8; 01-SEP-2009 01:52:56; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39235
 11; 3270.9; 01-SEP-2009 01:55:04; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39235
 12; 4155.8; 01-SEP-2009 02:09:49; Bright; 60.0; 6; 13Alp Aur ; 0.08; 3400;occ; 120; 0;39235
 13; 4378.2; 01-SEP-2009 02:13:31; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;39235
 14; 4687.0; 01-SEP-2009 02:18:40; Dark ; 64.0; 151; 13Mu Gem ; 2.89; 3000;occ; 128; 0;39235
 15; 4792.9; 01-SEP-2009 02:20:26; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;39235

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1; -966.8; 01-SEP-2009 02:25:02; Dark ; 66.5; 14; 58Alp Ori ; 0.87; 3000;occ; 133; 0;39235
 2; -715.8; 01-SEP-2009 02:29:13; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;39235
 3; -584.8; 01-SEP-2009 02:31:24; Dark ; 49.5; 47; 2Bet CMA ; 1.98; 28000;occ; 99; 0;39235
 4; -412.2; 01-SEP-2009 02:34:17; Dark ; 52.5; 101; 11Alp Lep ; 2.58; 7000;occ; 105; 0;39235
 5; -236.5; 01-SEP-2009 02:37:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39235
 6; 488.8; 01-SEP-2009 02:49:18; Dark ; 56.0; 157; The1Eri ; 2.91; 9300;occ; 112; 0;39236
 7; 962.7; 01-SEP-2009 02:57:12; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39236
 8; 1330.1; 01-SEP-2009 03:03:19; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;39236
 9; 2249.4; 01-SEP-2009 03:18:38; Bright; 47.0; 90; 54Alp Peg ; 2.49; 11000;occ; 94; 0;39236
 10; 2500.7; 01-SEP-2009 03:22:50; Bright; 43.0; 164; 44Eta Peg ; 2.95; 5400;occ; 86; 0;39236
 11; 3142.5; 01-SEP-2009 03:33:31; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39236
 12; 3270.4; 01-SEP-2009 03:35:39; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39236

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 2; -1657.5; 01-SEP-2009 03:54:07; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;39236
 3; -1348.6; 01-SEP-2009 03:59:16; Dark ; 53.5; 151; 13Mu Gem ; 2.89; 3000;occ; 107; 0;39236
 4; -1242.9; 01-SEP-2009 04:01:02; Dark ; 48.5; 44; 24Gam Gem ; 1.93; 11000;occ; 97; 0;39236
 5; -965.8; 01-SEP-2009 04:05:39; Dark ; 74.0; 14; 58Alp Ori ; 0.87; 3000;occ; 148; 0;39236
 6; -714.7; 01-SEP-2009 04:09:50; Dark ; 35.0; 30; 46Eps Ori ; 1.69; 30000;occ; 70; 0;39236
 7; -584.2; 01-SEP-2009 04:12:01; Dark ; 49.0; 47; 2Bet CMA ; 1.98; 28000;occ; 98; 0;39236
 8; -411.4; 01-SEP-2009 04:14:53; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;39236
 9; -235.3; 01-SEP-2009 04:17:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39236
 10; 489.9; 01-SEP-2009 04:29:55; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39237
 11; 963.6; 01-SEP-2009 04:37:48; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39237
 12; 1330.4; 01-SEP-2009 04:43:55; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;39237
 13; 2248.7; 01-SEP-2009 04:59:14; Bright; 70.0; 90; 54Alp Peg ; 2.49; 11000;occ; 140; 0;39237
 14; 2500.2; 01-SEP-2009 05:03:25; Bright; 43.5; 164; 44Eta Peg ; 2.95; 5400;occ; 87; 0;39237
 15; 3141.8; 01-SEP-2009 05:14:07; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39237
 16; 3269.5; 01-SEP-2009 05:16:14; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39237

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 2; -1657.7; 01-SEP-2009 05:34:43; Bright; 46.5; 107; 37The Aur ; 2.65; 11000;occ; 93; 0;39237
 3; -1348.2; 01-SEP-2009 05:39:53; Dark ; 58.0; 151; 13Mu Gem ; 2.89; 3000;occ; 116; 0;39237
 4; -1242.4; 01-SEP-2009 05:41:38; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;39237
 5; -964.9; 01-SEP-2009 05:46:16; Dark ; 71.5; 14; 58Alp Ori ; 0.87; 3000;occ; 143; 0;39237
 6; -713.5; 01-SEP-2009 05:50:27; Dark ; 35.0; 30; 46Eps Ori ; 1.69; 30000;occ; 70; 0;39237
 7; -583.2; 01-SEP-2009 05:52:38; Dark ; 48.0; 47; 2Bet CMA ; 1.98; 28000;occ; 96; 0;39237
 8; -409.9; 01-SEP-2009 05:55:31; Dark ; 58.5; 101; 11Alp Lep ; 2.58; 7000;occ; 117; 0;39237
 9; -234.2; 01-SEP-2009 05:58:27; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39237
 10; 491.2; 01-SEP-2009 06:10:32; Dark ; 55.0; 157; The1Eri ; 2.91; 9300;occ; 110; 0;39238
 11; 964.2; 01-SEP-2009 06:18:25; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;39238
 12; 1330.7; 01-SEP-2009 06:24:32; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;39238
 13; 2248.4; 01-SEP-2009 06:39:49; Bright; 46.5; 90; 54Alp Peg ; 2.49; 11000;occ; 93; 0;39238
 14; 2499.6; 01-SEP-2009 06:44:00; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39238
 15; 3141.0; 01-SEP-2009 06:54:42; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;39238
 16; 3268.9; 01-SEP-2009 06:56:50; Bright; 45.5; 76; 27Gam Cas ; 2.30; 30000;occ; 91; 0;39238

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1; 968.7; 01-SEP-2009 19:43:17; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;39246
 2; 1332.8; 01-SEP-2009 19:49:21; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;39246
 3; 2244.0; 01-SEP-2009 20:04:32; Bright; 46.0; 90; 54Alp Peg ; 2.49; 11000;occ; 92; 0;39246
 4; 2495.9; 01-SEP-2009 20:08:44; Bright; 40.5; 164; 44Eta Peg ; 2.95; 5400;occ; 81; 0;39246

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5; 3136.1; 01-SEP-2009 20:19:24; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;39246
6; 3263.2; 01-SEP-2009 20:21:32; Bright; 46.5; 76; 27Gam Cas ; 2.30; 30000;occ; 93; 0;39246
7; 4152.7; 01-SEP-2009 20:36:21; Bright; 62.5; 6; 13Alp Aur ; 0.08; 3400;occ; 125; 0;39246
8; 4378.4; 01-SEP-2009 20:40:07; Bright; 50.5; 107; 37The Aur ; 2.65; 11000;occ; 101; 0;39246
9; 4690.5; 01-SEP-2009 20:45:19; Dark ; 57.5; 151; 13Mu Gem ; 2.89; 3000;occ; 115; 0;39246
10; 4797.1; 01-SEP-2009 20:47:05; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;39246
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2; -707.7; 01-SEP-2009 20:55:56; Dark ; 61.0; 33; 50Zet Ori ; 1.77; 30000;occ; 122; 0;39246
3; -576.6; 01-SEP-2009 20:58:08; Dark ; 48.0; 47; 2Bet CMA ; 1.98; 28000;occ; 96; 0;39246
4; -399.2; 01-SEP-2009 21:01:05; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;39246
5; -223.7; 01-SEP-2009 21:04:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39246
6; 502.0; 01-SEP-2009 21:16:06; Dark ; 57.0; 157; The1Eri ; 2.91; 9300;occ; 114; 0;39247
7; 969.2; 01-SEP-2009 21:23:53; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;39247
8; 1332.9; 01-SEP-2009 21:29:57; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;39247
9; 2243.6; 01-SEP-2009 21:45:08; Bright; 48.5; 90; 54Alp Peg ; 2.49; 11000;occ; 97; 0;39247
10; 2495.3; 01-SEP-2009 21:49:19; Bright; 63.0; 164; 44Eta Peg ; 2.95; 5400;occ; 126; 0;39247
11; 3135.5; 01-SEP-2009 22:00:00; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39247
12; 3262.5; 01-SEP-2009 22:02:07; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39247
13; 4152.6; 01-SEP-2009 22:16:57; Bright; 60.5; 6; 13Alp Aur ; 0.08; 3400;occ; 121; 0;39247
14; 4378.3; 01-SEP-2009 22:20:43; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;39247
15; 4690.8; 01-SEP-2009 22:25:55; Dark ; 49.5; 151; 13Mu Gem ; 2.89; 3000;occ; 99; 0;39247
16; 4797.5; 01-SEP-2009 22:27:42; Dark ; 52.5; 44; 24Gam Gem ; 1.93; 11000;occ; 105; 0;39247
17; 5079.4; 01-SEP-2009 22:32:24; Dark ; 65.5; 14; 58Alp Ori ; 0.87; 3000;occ; 131; 0;39247
18; 5329.2; 01-SEP-2009 22:36:33; Dark ; 23.5; 33; 50Zet Ori ; 1.77; 30000;occ; 47; 0;39247
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2; -575.8; 01-SEP-2009 22:38:44; Dark ; 49.5; 47; 2Bet CMA ; 1.98; 28000;occ; 99; 0;39247
3; -397.9; 01-SEP-2009 22:41:42; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;39247
4; -222.5; 01-SEP-2009 22:44:38; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39247
5; 503.3; 01-SEP-2009 22:56:43; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39248
6; 969.8; 01-SEP-2009 23:04:30; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;39248
7; 2243.0; 01-SEP-2009 23:25:43; Bright; 59.5; 90; 54Alp Peg ; 2.49; 11000;occ; 119; 0;39248
8; 2494.9; 01-SEP-2009 23:29:55; Bright; 43.5; 164; 44Eta Peg ; 2.95; 5400;occ; 87; 0;39248
9; 3134.6; 01-SEP-2009 23:40:35; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;39248
10; 3261.8; 01-SEP-2009 23:42:42; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;39248
11; 4152.0; 01-SEP-2009 23:57:32; Bright; 63.5; 6; 13Alp Aur ; 0.08; 3400;occ; 127; 0;39248
12; 4378.2; 02-SEP-2009 00:01:18; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;39248
13; 4691.1; 02-SEP-2009 00:06:31; Dark ; 58.5; 151; 13Mu Gem ; 2.89; 3000;occ; 117; 0;39248
14; 4797.8; 02-SEP-2009 00:08:18; Dark ; 51.0; 44; 24Gam Gem ; 1.93; 11000;occ; 102; 0;39248
15; 5080.2; 02-SEP-2009 00:13:00; Dark ; 70.5; 14; 58Alp Ori ; 0.87; 3000;occ; 141; 0;39248
16; 5330.6; 02-SEP-2009 00:17:11; Dark ; 63.5; 33; 50Zet Ori ; 1.77; 30000;occ; 127; 0;39248
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9; 2267.8; 16-SEP-2009 03:47:39; Bright; 48.5; 140; 88Gam Peg ; 2.83; 26000;occ; 97; 0;39451
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6; 103.5; 21-SEP-2009 05:35:17; Dark ; 54.5; 108; Alp Col ; 2.65; 15200;occ; 109; 0;39524
7; 800.3; 21-SEP-2009 05:46:54; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39524
8; 1538.4; 21-SEP-2009 05:59:12; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;39524
9; 2229.7; 21-SEP-2009 06:10:43; Bright; 45.0; 140; 88Gam Peg ; 2.83; 26000;occ; 90; 0;39524
10; 2491.0; 21-SEP-2009 06:15:04; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;39524
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9; 2991.0; 22-SEP-2009 02:30:35; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39536
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8; 1540.0; 22-SEP-2009 03:47:00; Dark ; 52.5; 52; 16Bet Cet ; 2.04; 4500;occ; 105; 0;39537
9; 2224.6; 22-SEP-2009 03:58:25; Bright; 43.5; 140; 88Gam Peg ; 2.83; 26000;occ; 87; 0;39537
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3; 2480.0; 22-SEP-2009 20:48:40; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;39547
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4; 3086.9; 22-SEP-2009 07:33:59; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;39539
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3; 2479.9; 22-SEP-2009 19:08:04; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;39546
4; 2987.5; 22-SEP-2009 19:16:31; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39546
5; 3083.7; 22-SEP-2009 19:18:07; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39546
6; 5062.8; 22-SEP-2009 19:51:06; Dark ; 41.5; 8; 10Alp CMi ; 0.40; 6500;occ; 83; 0;39546
7; 5669.0; 22-SEP-2009 20:01:13; Dark ; 27.0; 1; 9Alp CMA ; -1.44; 11000;occ; 54; 0;39546
8; 5816.4; 22-SEP-2009 20:03:40; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;39546
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4; 4503.1; 26-SEP-2009 00:49:19; Bright; 33.5; 24; 66Alp Gem ; 1.58; 10200;occ; 67; 0;39592
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5; 17.9; 26-SEP-2009 02:55:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39594
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5; 2946.9; 30-SEP-2009 18:24:05; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39660
6; 3033.2; 30-SEP-2009 18:25:31; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39660
7; 4512.4; 30-SEP-2009 18:50:11; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;39660
8; 4600.6; 30-SEP-2009 18:51:39; Bright; 36.5; 17; 78Bet Gem ; 1.16; 4500;occ; 73; 0;39660
9; 5160.7; 30-SEP-2009 19:00:59; Dark ; 36.0; 8; 10Alp CMi ; 0.40; 6500;occ; 72; 0;39660
10; 5584.8; 30-SEP-2009 19:08:03; Dark ; 34.5; 132; 15Rho Pup ; 2.80; 6900;occ; 69; 0;39660
11; 5800.3; 30-SEP-2009 19:11:39; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39660
12; 5904.0; 30-SEP-2009 19:13:22; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39660
13; 6129.9; 30-SEP-2009 19:17:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39660
14; 6337.0; 30-SEP-2009 19:20:35; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39660
15; 6949.1; 30-SEP-2009 19:30:47; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;39660
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2; 2186.0; 30-SEP-2009 19:52:00; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39661
3; 2435.7; 30-SEP-2009 19:56:10; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;39661
4; 2661.9; 30-SEP-2009 19:59:56; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;39661
5; 2946.5; 30-SEP-2009 20:04:41; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39661

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7;	4512.4;	30-SEP-2009	20:30:47;	Bright;	37.0;	24;	66Alp Gem	;	1.58;	10200;occ;	74;	0;	39661	
8;	4600.7;	30-SEP-2009	20:32:15;	Bright;	36.5;	17;	78Bet Gem	;	1.16;	4500;occ;	73;	0;	39661	
9;	5161.7;	30-SEP-2009	20:41:36;	Dark	;	36.0;	8;	10Alp CMi	;	0.40;	6500;occ;	72;	0;	39661
10;	5585.2;	30-SEP-2009	20:48:39;	Dark	;	35.0;	132;	15Rho Pup	;	2.80;	6900;occ;	70;	0;	39661
11;	5801.6;	30-SEP-2009	20:52:16;	Dark	;	40.0;	88;	31Eta CMa	;	2.45;	20000;occ;	80;	0;	39661
12;	5905.4;	30-SEP-2009	20:54:00;	Dark	;	44.0;	23;	21Eps CMa	;	1.50;	26000;occ;	88;	0;	39661
13;	6131.0;	30-SEP-2009	20:57:45;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	39661
14;	6338.5;	30-SEP-2009	21:01:13;	Dark	;	52.0;	108;	Alp Col	;	2.65;	15200;occ;	104;	0;	39661
15;	6949.6;	30-SEP-2009	21:11:24;	Dark	;	40.0;	157;	The1Eri	;	2.91;	9300;occ;	80;	0;	39661