

GOMOS Daily Report 12-SEP-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	18SEP2008 09:08:34
Data source version	GOMOS/5.00
Start time of products	12SEP2008 01:16:14
Stop time of products	12SEP2008 05:28:20
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

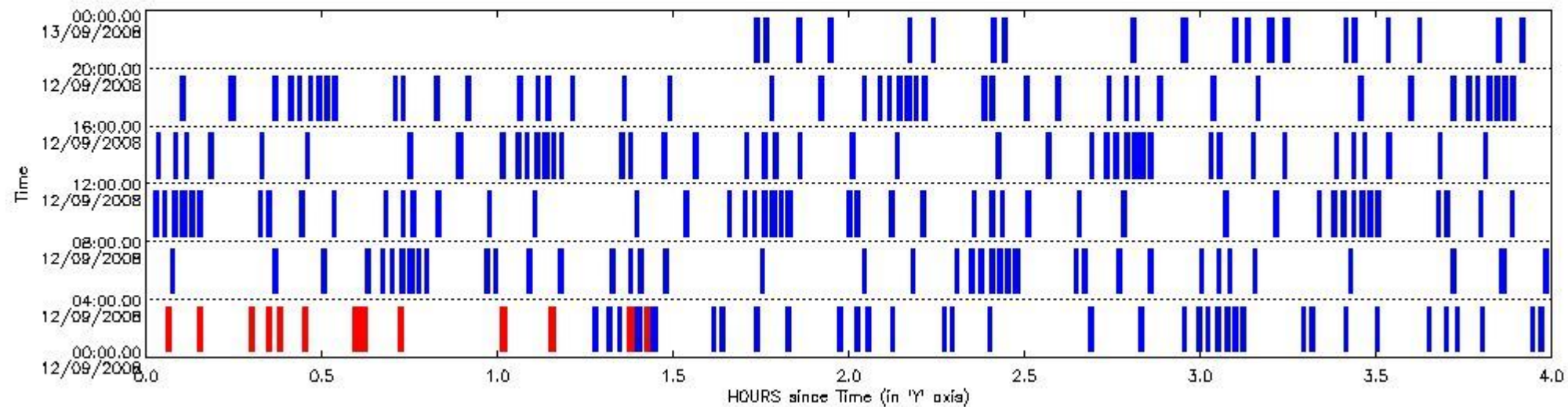
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



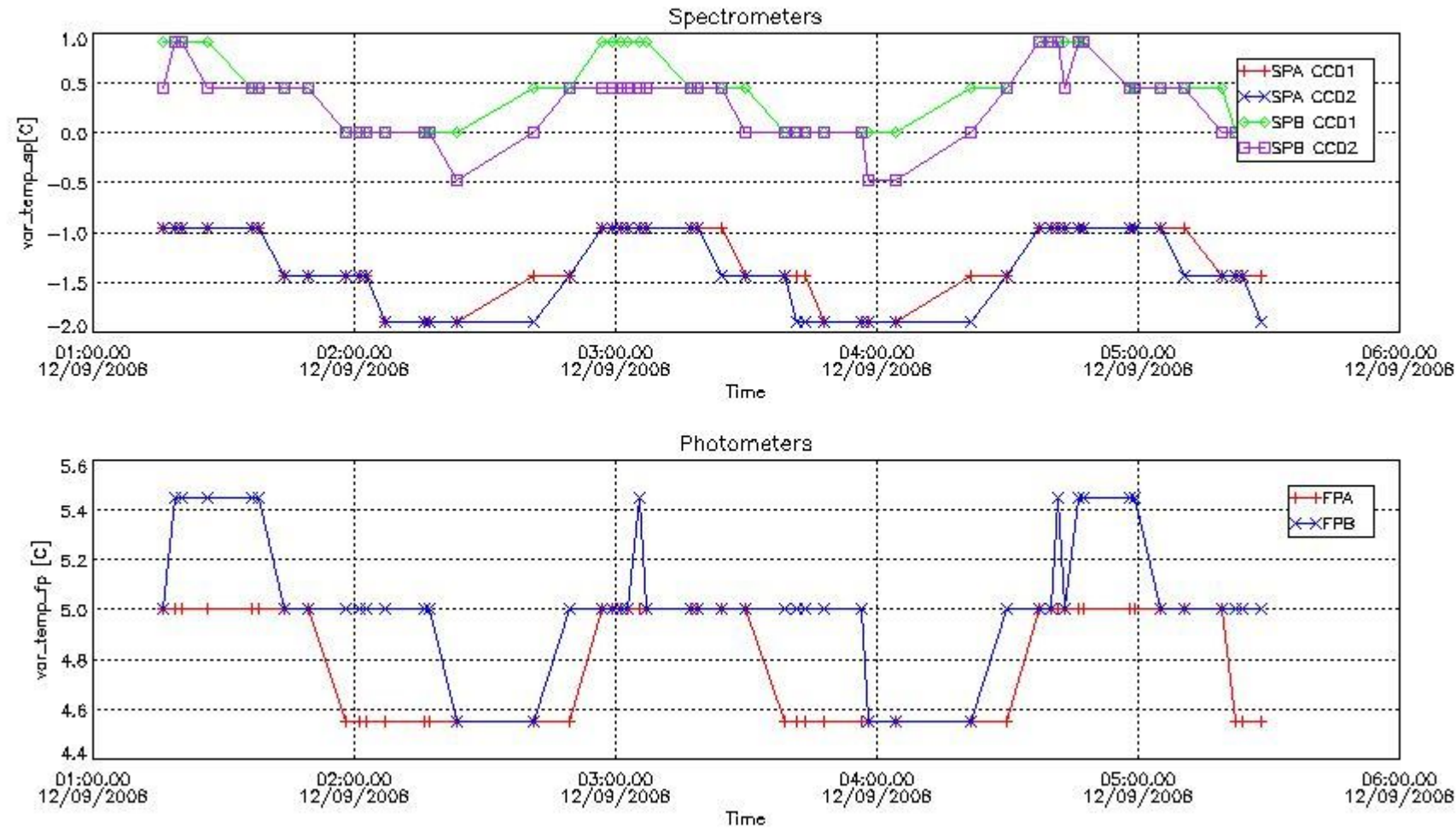
2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
12-SEP-2008 00:03:15	AlpPhe	84	34167
12-SEP-2008 00:08:39	24AlpPsA	18	34167
12-SEP-2008 00:17:31	34AlpAqr	162	34167
12-SEP-2008 00:20:30	8EpsPeg	61	34167
12-SEP-2008 00:22:20	54AlpPeg	90	34167
12-SEP-2008 00:26:34	44EtaPeg	164	34167
12-SEP-2008 00:35:20	5AlpCep	89	34167
12-SEP-2008 00:36:42	11BetCas	74	34167
12-SEP-2008 00:43:02	1AlpUMi	49	34167
12-SEP-2008 01:00:25	66AlpGem	24	34167
12-SEP-2008 01:08:47	10AlpCMi	8	34167
12-SEP-2008 01:22:06	1ZetCMa	177	34167
12-SEP-2008 01:25:01	TauPup	161	34167

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_1PNPDE20080912_011614_000000422072_00045_34167_8979.N1	12-SEP-2008 01:16:14	Dark	41.500	132	15Rho Pup	2.8030	6900.0	83	34167	No
2	GOM_TRA_1PNPDE20080912_011846_000000482072_00045_34167_8980.N1	12-SEP-2008 01:18:46	Dark	48.000	37	25Del CMa	1.8300	5900.0	96	34167	No
3	GOM_TRA_1PNPDE20080912_012025_000000382072_00045_34167_8981.N1	12-SEP-2008 01:20:25	Dark	37.500	70	Zet Pup	2.2460	39000.	75	34167	No
4	GOM_TRA_1PNPDE20080912_012616_000000532072_00045_34167_8982.N1	12-SEP-2008 01:26:16	Dark	52.500	2	Alp Car	-0.73600	7000.0	105	34167	No
5	GOM_TRA_1PNPDE20080912_013637_000000392072_00046_34168_8983.N1	12-SEP-2008 01:36:37	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	34168	No
6	GOM_TRA_1PNPDE20080912_013801_000000422072_00046_34168_8984.N1	12-SEP-2008 01:38:01	Dark	42.000	9	Alp Eri	0.45300	24000.	84	34168	No
7	GOM_TRA_1PNPDE20080912_014350_000000472072_00046_34168_8985.N1	12-SEP-2008 01:43:50	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	34168	No
8	GOM_TRA_1PNPDE20080912_014914_000000452072_00046_34168_8986.N1	12-SEP-2008 01:49:14	Straylight	45.000	18	24Alp PsA	1.1660	9700.0	90	34168	No
9	GOM_TRA_1PNPDE20080912_015805_000000382072_00046_34168_8987.N1	12-SEP-2008 01:58:05	Bright	37.500	162	34Alp Aqr	2.9440	5350.0	75	34168	No
10	GOM_TRA_1PNPDE20080912_020104_000000382072_00046_34168_8988.N1	12-SEP-2008 02:01:04	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	34168	No
11	GOM_TRA_1PNPDE20080912_020254_000000412072_00046_34168_8989.N1	12-SEP-2008 02:02:54	Bright	40.500	90	54Alp Peg	2.4870	11000.	81	34168	No
12	GOM_TRA_1PNPDE20080912_020708_000000382072_00046_34168_8990.N1	12-SEP-2008 02:07:08	Bright	38.000	164	44Eta Peg	2.9480	5400.0	76	34168	No
13	GOM_TRA_1PNPDE20080912_021554_000000352072_00046_34168_8991.N1	12-SEP-2008 02:15:54	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	34168	No
14	GOM_TRA_1PNPDE20080912_021716_000000392072_00046_34168_8992.N1	12-SEP-2008 02:17:16	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	34168	No
15	GOM_TRA_1PNPDE20080912_022336_000000342072_00046_34168_8993.N1	12-SEP-2008 02:23:36	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	34168	No
16	GOM_TRA_1PNPDE20080912_024059_000000442072_00046_34168_9148.N1	12-SEP-2008 02:40:59	Bright	43.500	24	66Alp Gem	1.5800	10200.	87	34168	No
17	GOM_TRA_1PNPDE20080912_024922_000000602072_00046_34168_9149.N1	12-SEP-2008 02:49:22	Twilight	60.000	8	10Alp CMi	0.40000	6500.0	120	34168	No
18	GOM_TRA_1PNPDE20080912_025650_000000412072_00046_34168_9150.N1	12-SEP-2008 02:56:50	Dark	40.500	132	15Rho Pup	2.8030	6900.0	81	34168	No
19	GOM_TRA_1PNPDE20080912_025922_000000472072_00046_34168_9151.N1	12-SEP-2008 02:59:22	Dark	47.000	37	25Del CMa	1.8300	5900.0	94	34168	No
20	GOM_TRA_1PNPDE20080912_030102_000000382072_00046_34168_9152.N1	12-SEP-2008 03:01:02	Dark	37.500	70	Zet Pup	2.2460	39000.	75	34168	No
21	GOM_TRA_1PNPDE20080912_030241_000000452072_00046_34168_9153.N1	12-SEP-2008 03:02:41	Dark	44.500	177	1Zet CMa	3.0220	26000.	89	34168	No
22	GOM_TRA_1PNPDE20080912_030536_000000392072_00046_34168_9154.N1	12-SEP-2008 03:05:36	Dark	39.000	161	Tau Pup	2.9310	4500.0	78	34168	No
23	GOM_TRA_1PNPDE20080912_030653_000000412072_00046_34168_9155.N1	12-SEP-2008 03:06:53	Dark	41.000	2	Alp Car	-0.73600	7000.0	82	34168	No
24	GOM_TRA_1PNPDE20080912_031714_000000392072_00047_34169_9156.N1	12-SEP-2008 03:17:14	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	34169	No
25	GOM_TRA_1PNPDE20080912_031838_000000472072_00047_34169_9157.N1	12-SEP-2008 03:18:38	Dark	47.000	9	Alp Eri	0.45300	24000.	94	34169	No
26	GOM_TRA_1PNPDE20080912_032426_000000442072_00047_34169_9158.N1	12-SEP-2008 03:24:26	Straylight	44.000	84	Alp Phe	2.3970	4500.0	88	34169	No
27	GOM_TRA_1PNPDE20080912_032950_000000452072_00047_34169_9159.N1	12-SEP-2008 03:29:50	Straylight	44.500	18	24Alp PsA	1.1660	9700.0	89	34169	No
28	GOM_TRA_1PNPDE20080912_033841_000000382072_00047_34169_9160.N1	12-SEP-2008 03:38:41	Bright	38.000	162	34Alp Aqr	2.9440	5350.0	76	34169	No
29	GOM_TRA_1PNPDE20080912_034140_000000372072_00047_34169_9161.N1	12-SEP-2008 03:41:40	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	34169	No
30	GOM_TRA_1PNPDE20080912_034330_000000412072_00047_34169_9162.N1	12-SEP-2008 03:43:30	Bright	41.000	90	54Alp Peg	2.4870	11000.	82	34169	No
31	GOM_TRA_1PNPDE20080912_034744_000000382072_00047_34169_9163.N1	12-SEP-2008 03:47:44	Bright	38.000	164	44Eta Peg	2.9480	5400.0	76	34169	No
32	GOM_TRA_1PNPDE20080912_035630_000000362072_00047_34169_9164.N1	12-SEP-2008 03:56:30	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	34169	No
33	GOM_TRA_1PNPDE20080912_035752_000000382072_00047_34169_9165.N1	12-SEP-2008 03:57:52	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	34169	No
34	GOM_TRA_1PNPDE20080912_040412_000000362072_00047_34169_9166.N1	12-SEP-2008 04:04:12	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	34169	No
35	GOM_TRA_1PNPDE20080912_042135_000000442072_00047_34169_9294.N1	12-SEP-2008 04:21:35	Bright	43.500	24	66Alp Gem	1.5800	10200.	87	34169	No
36	GOM_TRA_1PNPDE20080912_042958_000000502072_00047_34169_9295.N1	12-SEP-2008 04:29:58	Twilight	49.500	8	10Alp CMi	0.40000	6500.0	99	34169	No
37	GOM_TRA_1PNPDE20080912_043726_000000432072_00047_34169_9296.N1	12-SEP-2008 04:37:26	Dark	42.500	132	15Rho Pup	2.8030	6900.0	85	34169	No
38	GOM_TRA_1PNPDE20080912_043959_000000452072_00047_34169_9297.N1	12-SEP-2008 04:39:59	Dark	44.500	37	25Del CMa	1.8300	5900.0	89	34169	No
39	GOM_TRA_1PNPDE20080912_044138_000000412072_00047_34169_9298.N1	12-SEP-2008 04:41:38	Dark	41.000	70	Zet Pup	2.2460	39000.	82	34169	No
40	GOM_TRA_1PNPDE20080912_044319_000000452072_00047_34169_9299.N1	12-SEP-2008 04:43:19	Dark	44.500	177	1Zet CMa	3.0220	26000.	89	34169	No
41	GOM_TRA_1PNPDE20080912_044612_000000402072_00047_34169_9300.N1	12-SEP-2008 04:46:12	Dark	39.500	161	Tau Pup	2.9310	4500.0	79	34169	No
42	GOM_TRA_1PNPDE20080912_044729_000000422072_00047_34169_9301.N1	12-SEP-2008 04:47:29	Dark	41.500	2	Alp Car	-0.73600	7000.0	83	34169	No
43	GOM_TRA_1PNPDE20080912_045750_000000392072_00048_34170_9302.N1	12-SEP-2008 04:57:50	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	34170	No
44	GOM_TRA_1PNPDE20080912_045914_000000432072_00048_34170_9303.N1	12-SEP-2008 04:59:14	Dark	42.500	9	Alp Eri	0.45300	24000.	85	34170	No
45	GOM_TRA_1PNPDE20080912_050503_000000482072_00048_34170_9304.N1	12-SEP-2008 05:05:03	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	34170	No
46	GOM_TRA_1PNPDE20080912_051026_000000452072_00048_34170_9305.N1	12-SEP-2008 05:10:26	Straylight	44.500	18	24Alp PsA	1.1660	9700.0	89	34170	No
47	GOM_TRA_1PNPDE20080912_051917_000000372072_00048_34170_9306.N1	12-SEP-2008 05:19:17	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	34170	No
48	GOM_TRA_1PNPDE20080912_052216_000000372072_00048_34170_9307.N1	12-SEP-2008 05:22:16	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	34170	No
49	GOM_TRA_1PNPDE20080912_052406_000000412072_00048_34170_9308.N1	12-SEP-2008 05:24:06	Bright	41.000	90	54Alp Peg	2.4870	11000.	82	34170	No
50	GOM_TRA_1PNPDE20080912_052820_000000392072_00048_34170_9309.N1	12-SEP-2008 05:28:20	Bright	39.000	164	44Eta Peg	2.9480	5400.0	78	34170	No

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



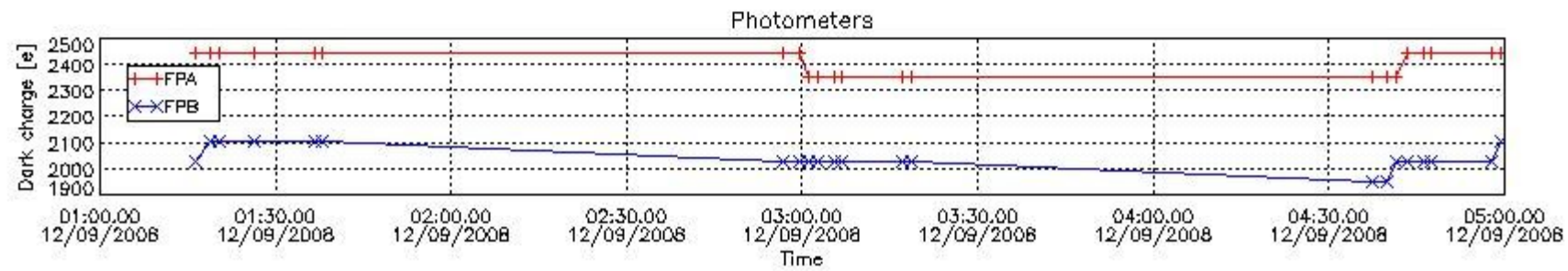
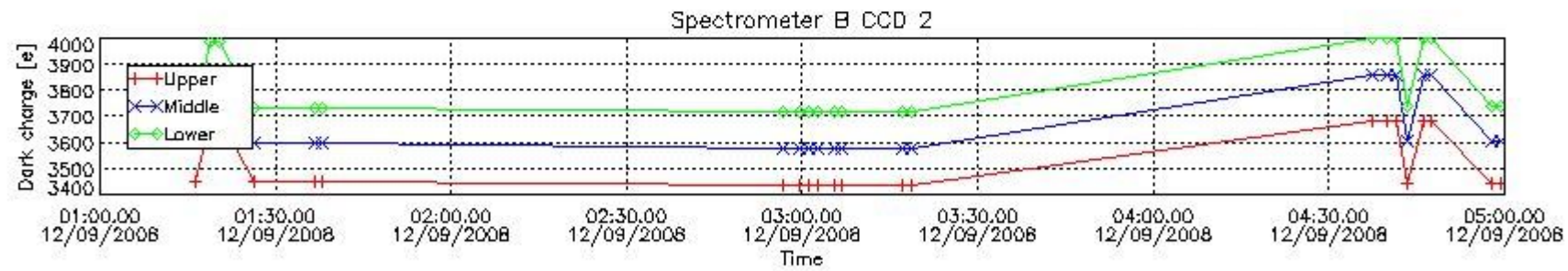
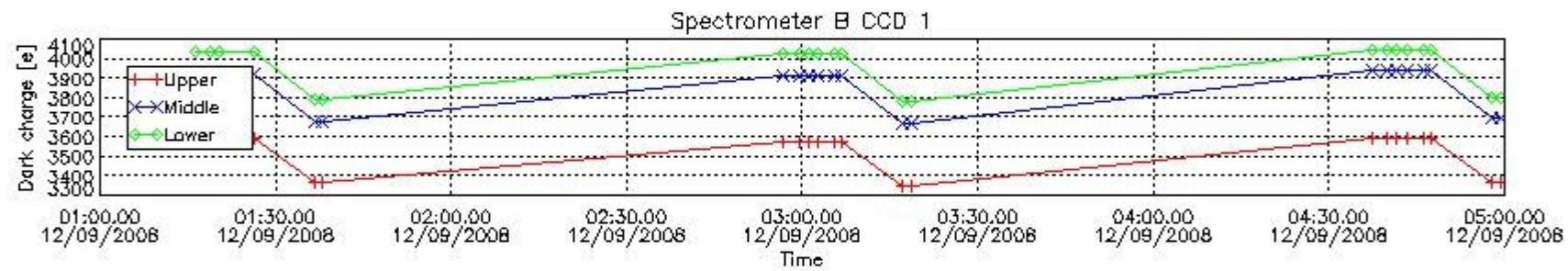
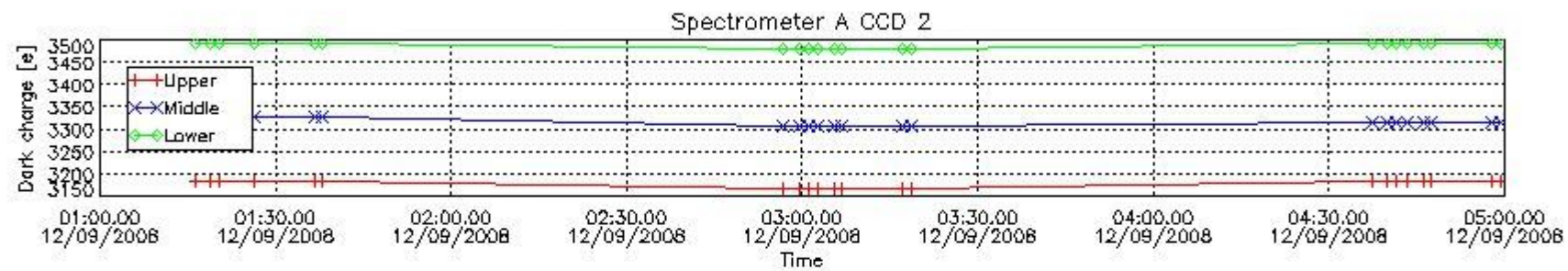
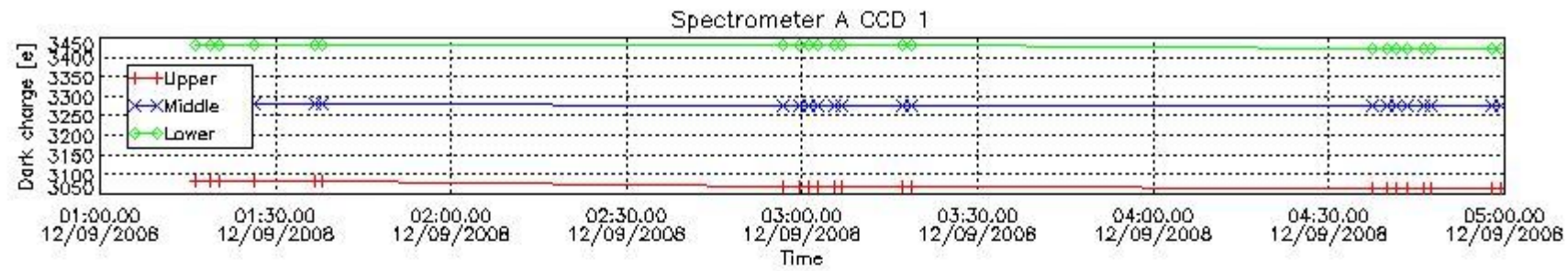
4. Overview of dark signal processing per product

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



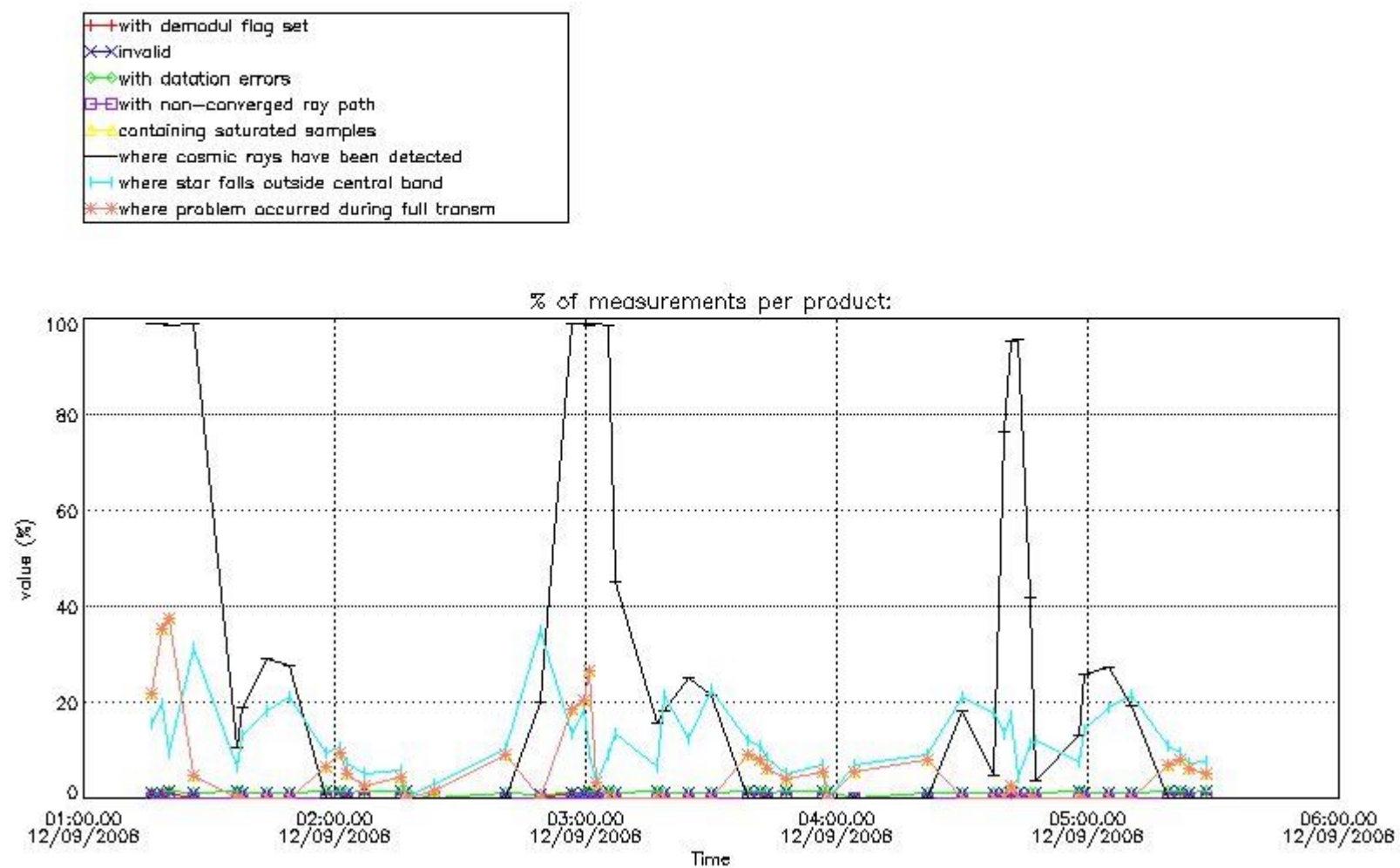
5. Demodulation flag and quality information monitoring

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.

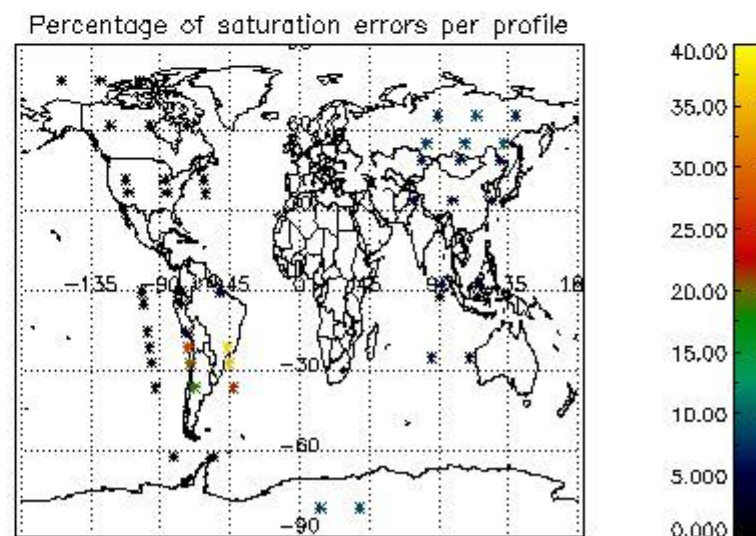
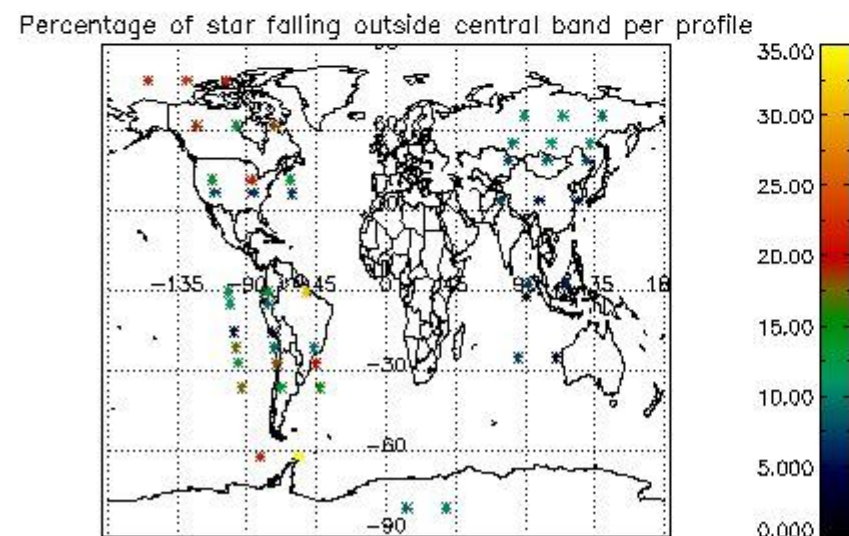
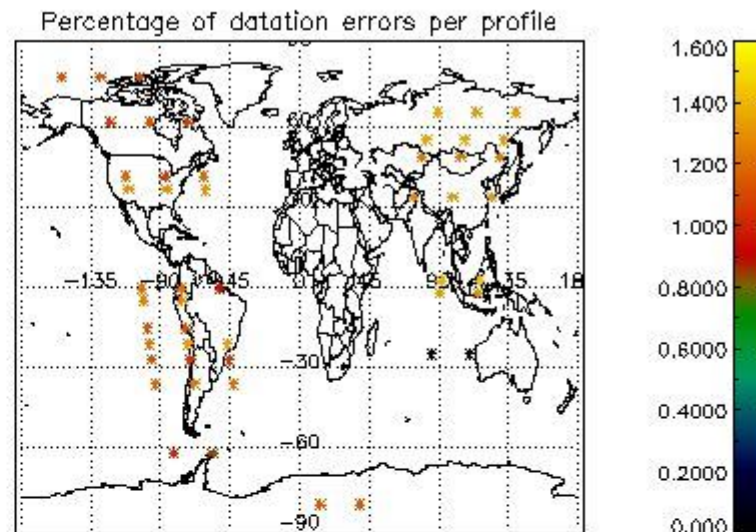
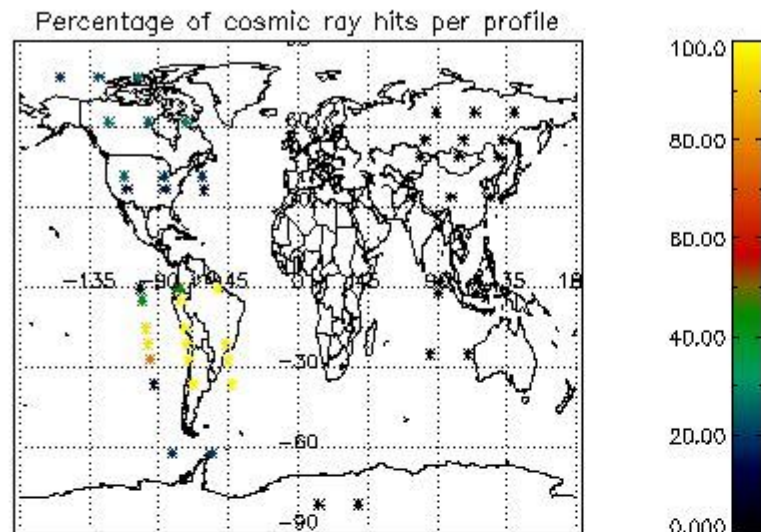
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	36.0000 %
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)



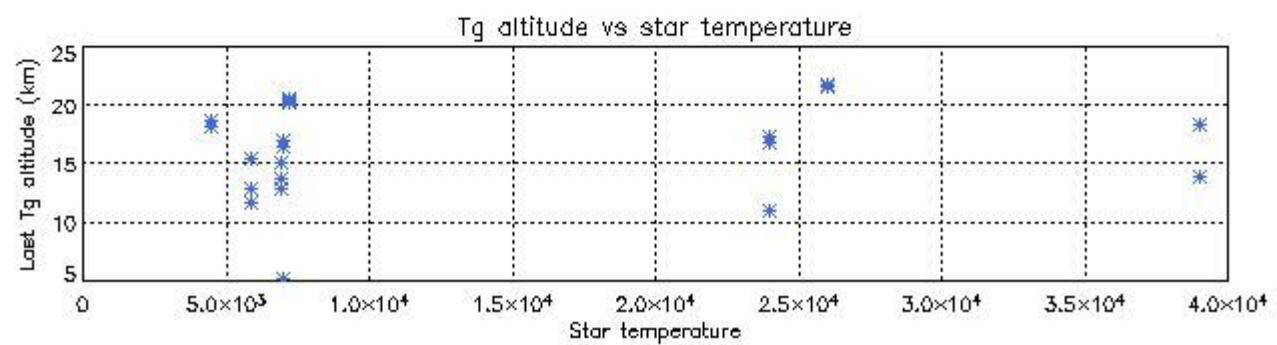
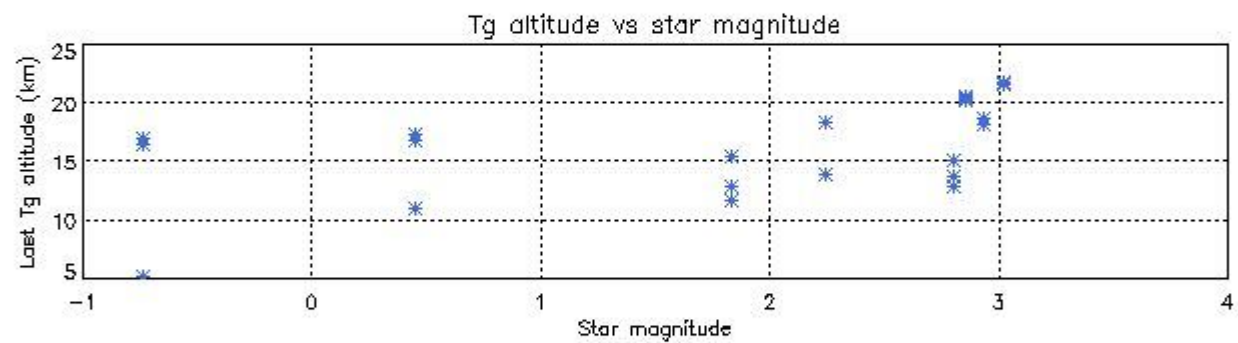
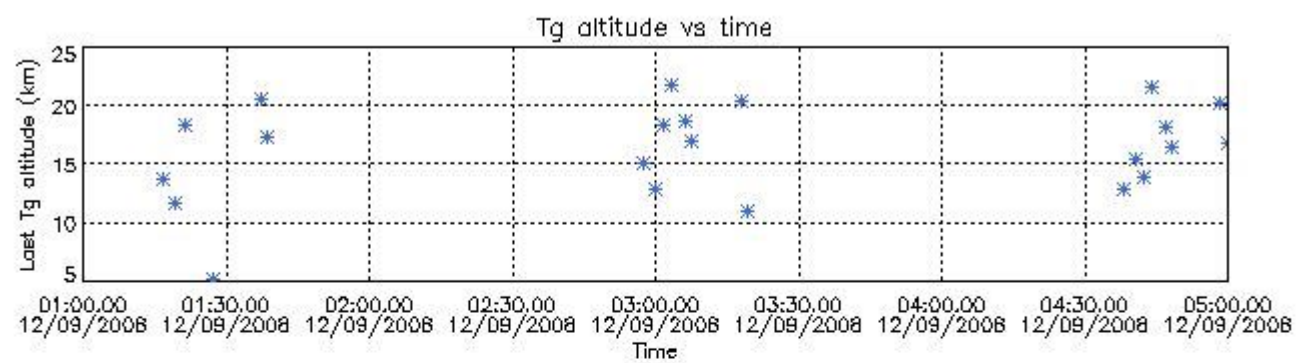
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.224	20.515	7.6566
St. deviation:	4.0008	3.3885	5.1132
Maximum:	21.681	28.066	11.272
Minimum:	5.2487	16.887	4.0410
Number of data:	22.000	20.000	2.0000

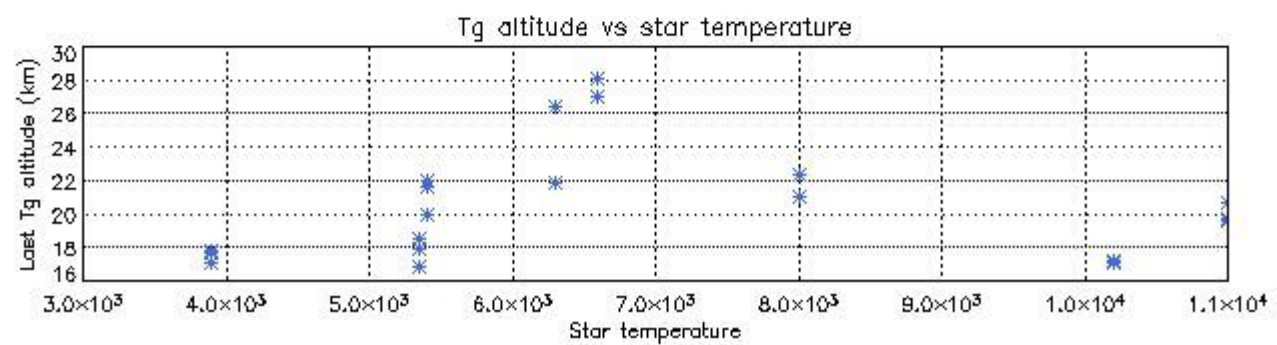
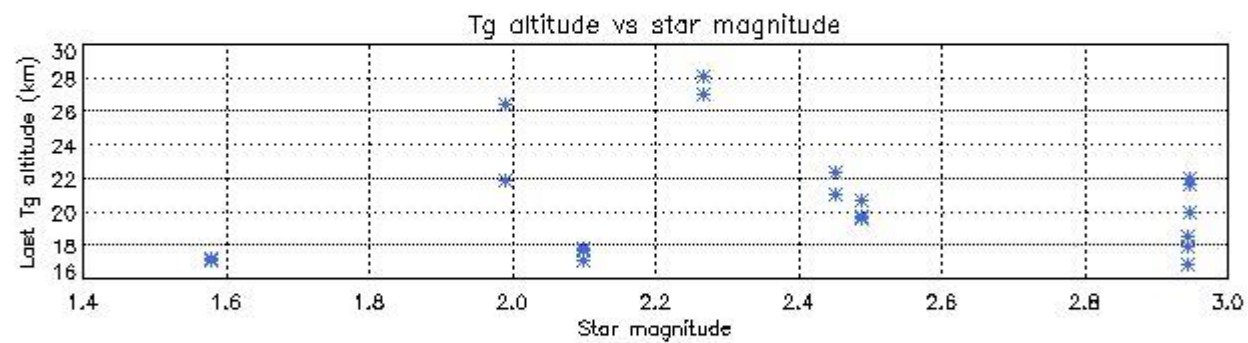
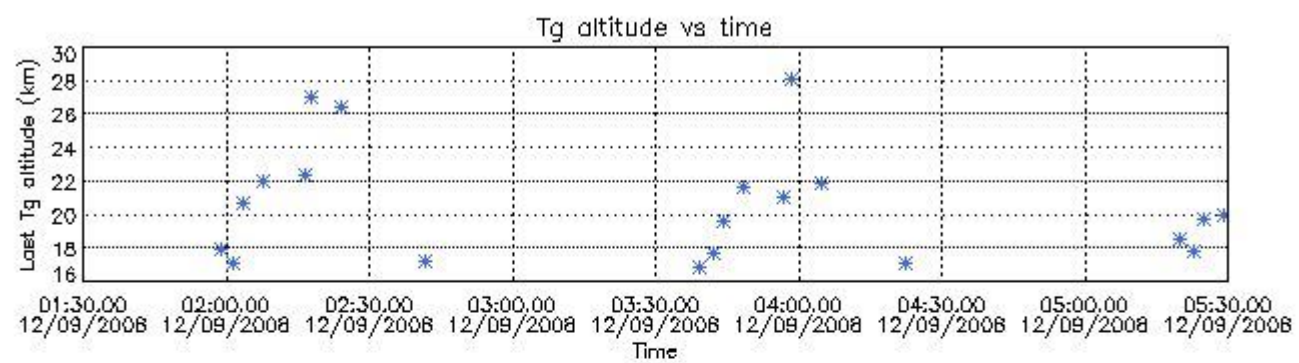
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



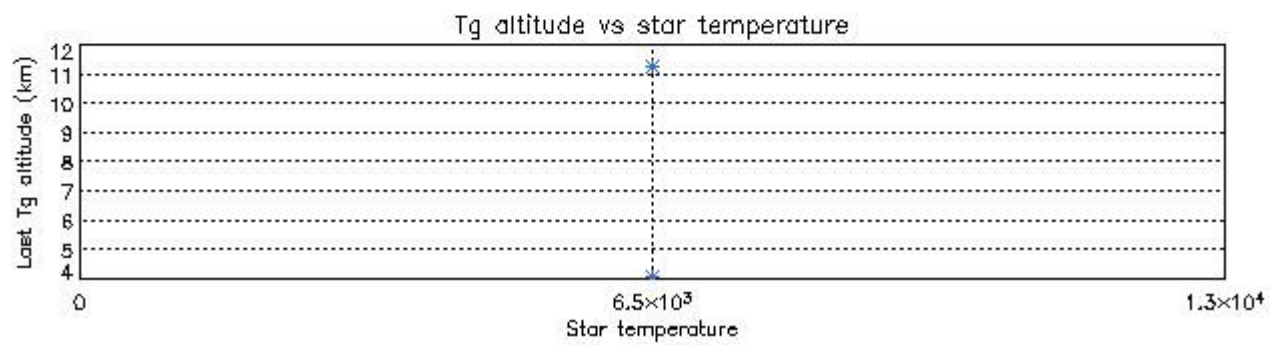
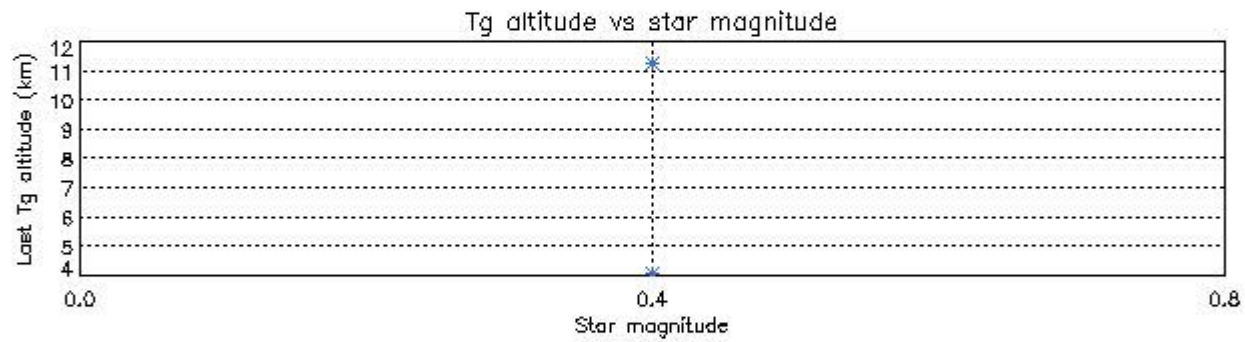
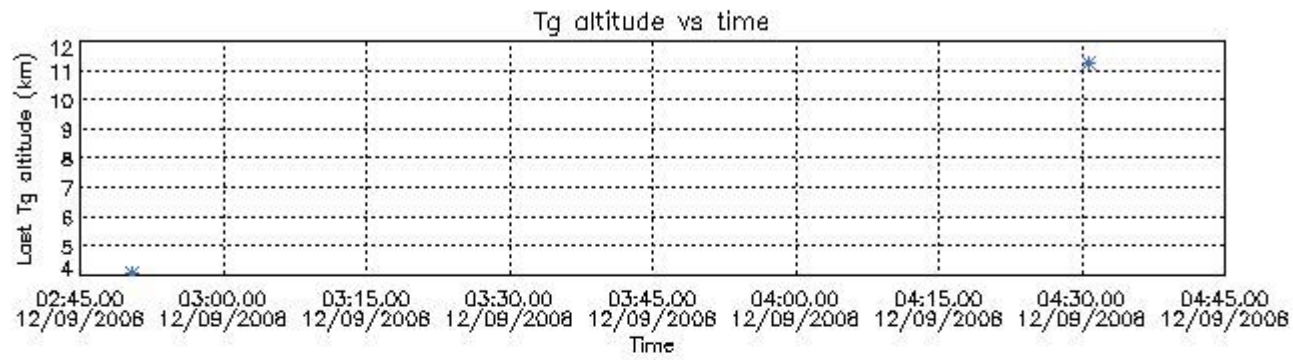
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

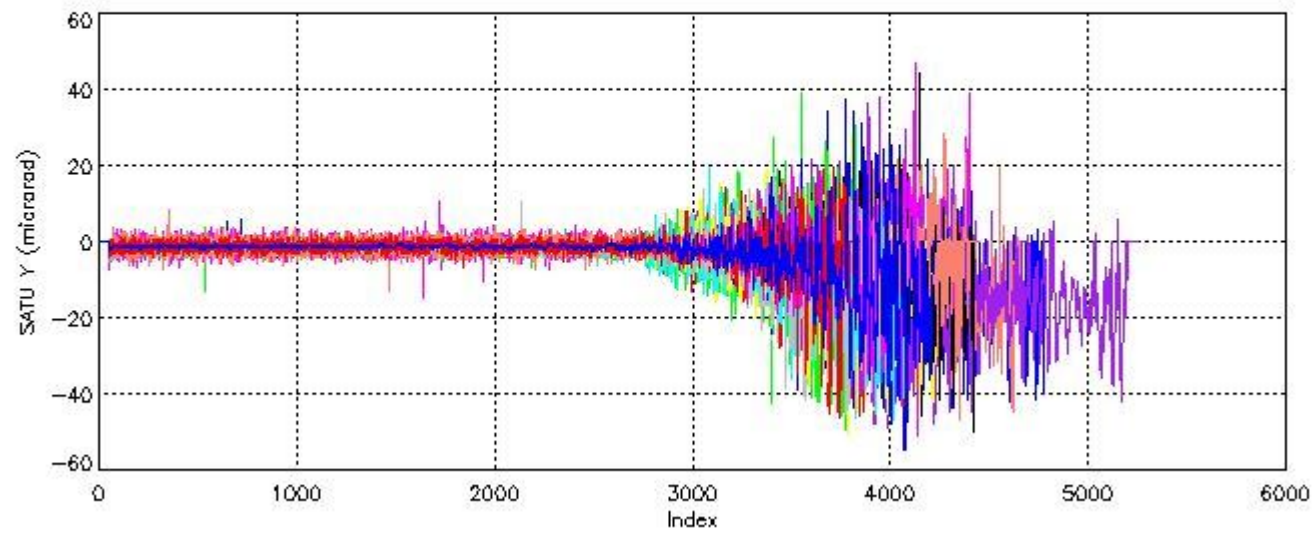
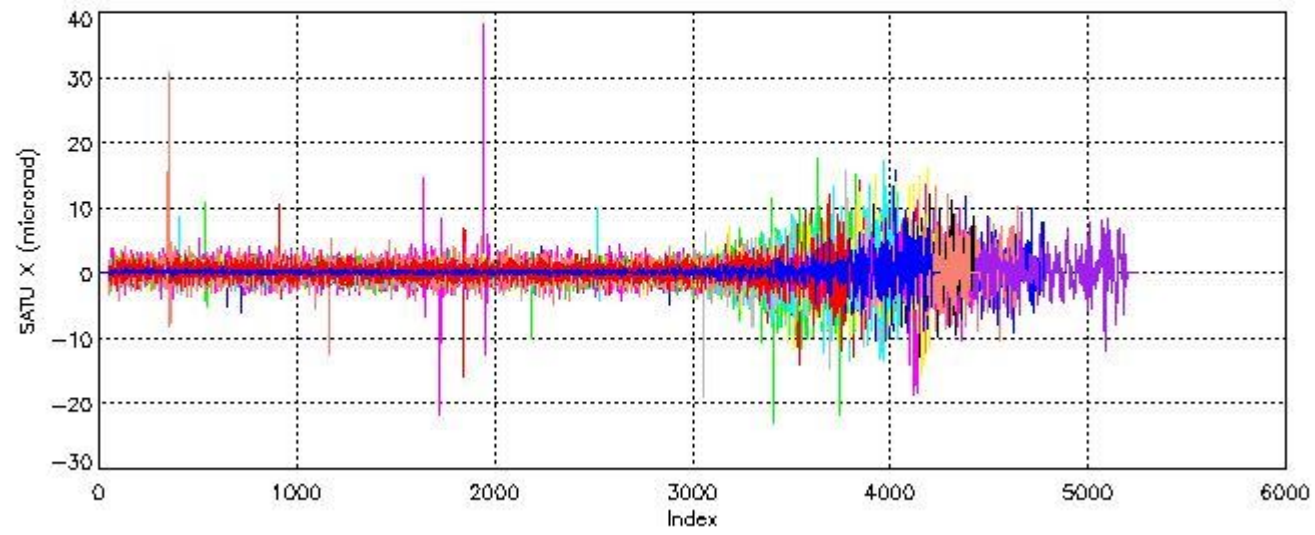


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main 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:	0.13521	-1.3373	0.18108	-1.3150
St. deviation:	0.63128	0.85639	0.72830	0.88704
Maximum:	30.800	8.3000	4.4000	3.5000
Minimum:	-8.1000	-13.300	-3.9000	-5.9000

Number of data:	20200.	20200.	17400.	17400.
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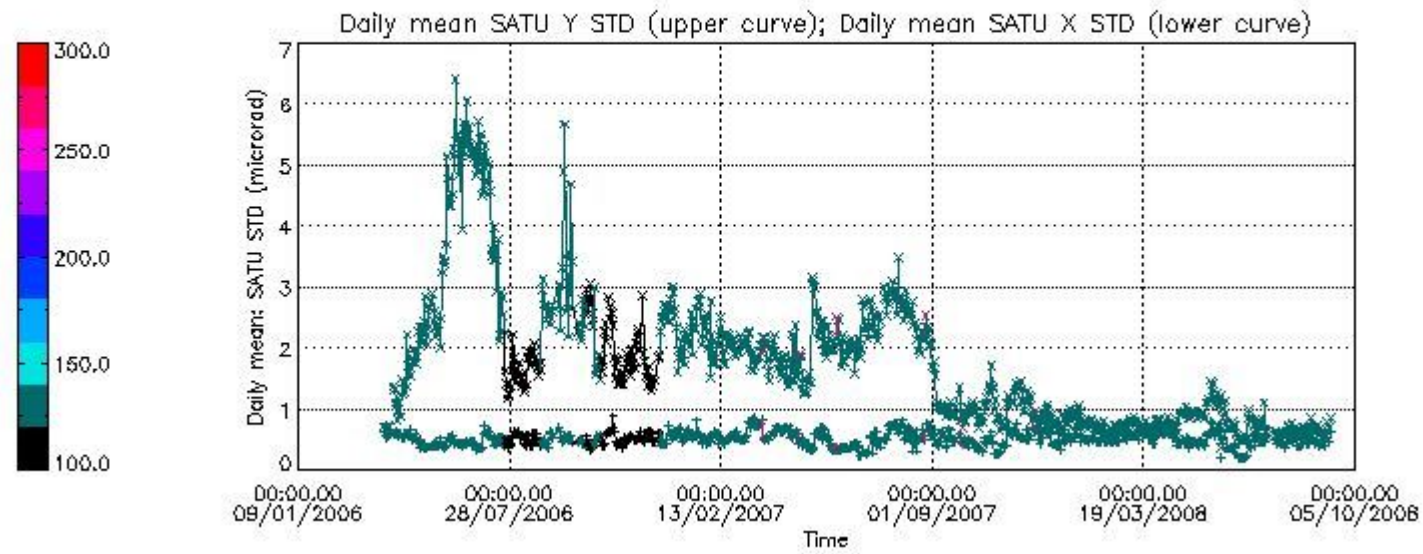
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

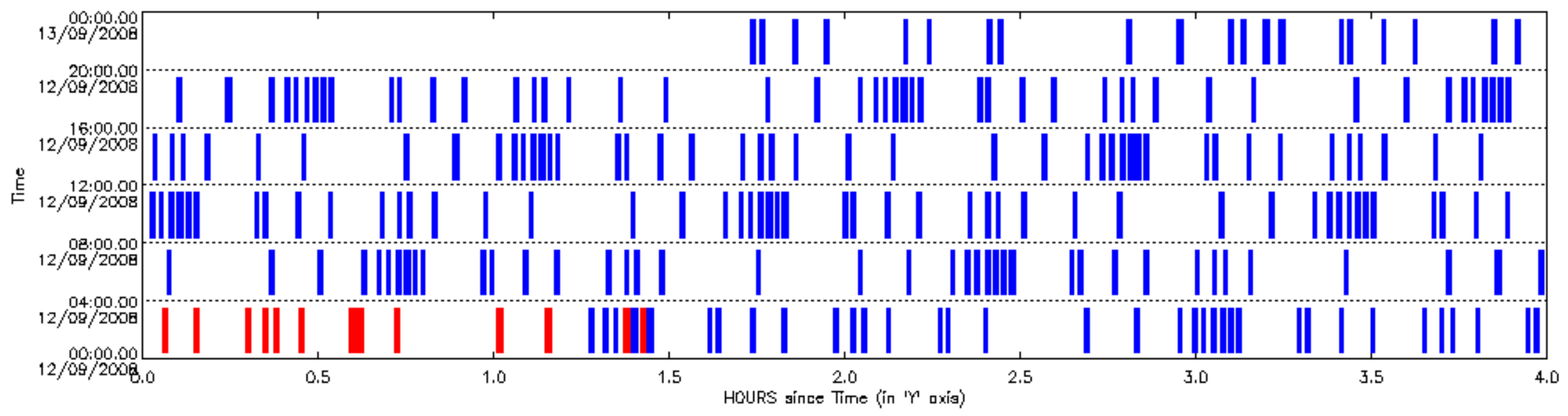
Lower curve: STD of SATU X axis

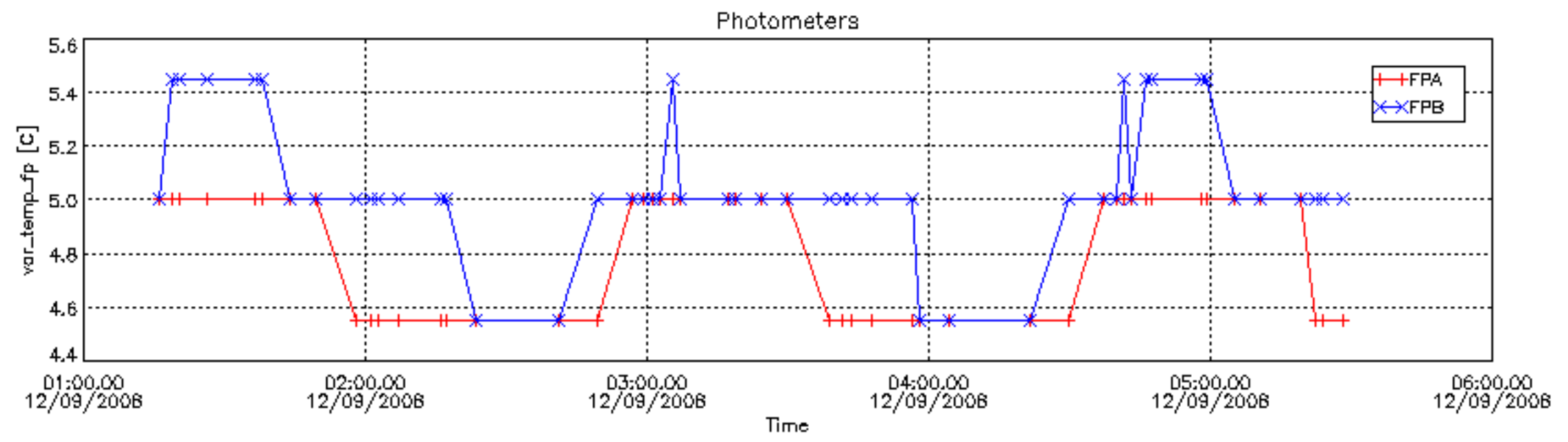
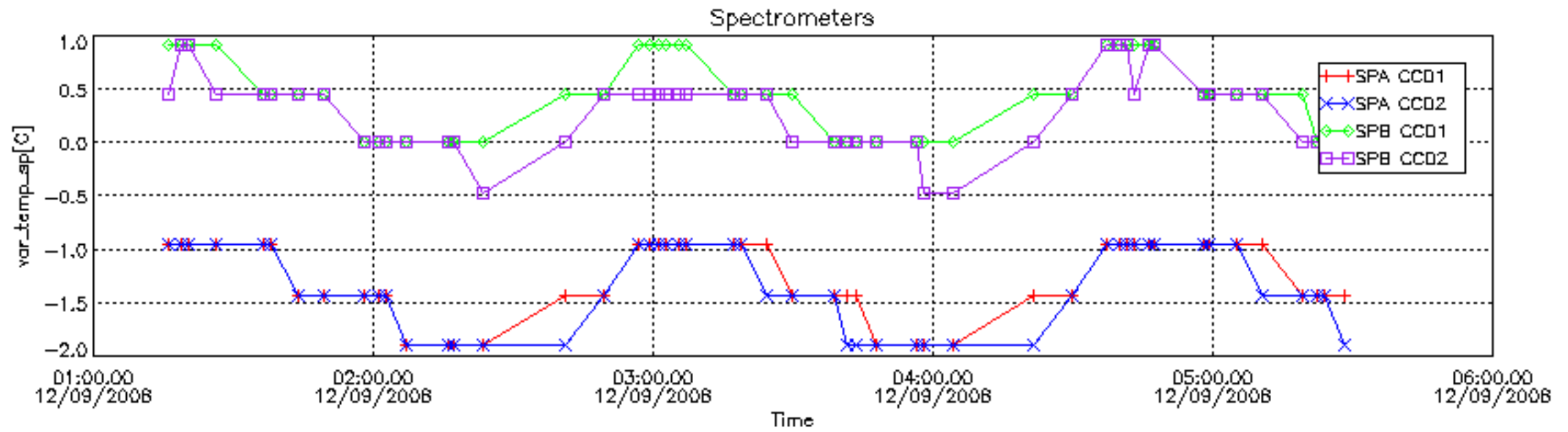


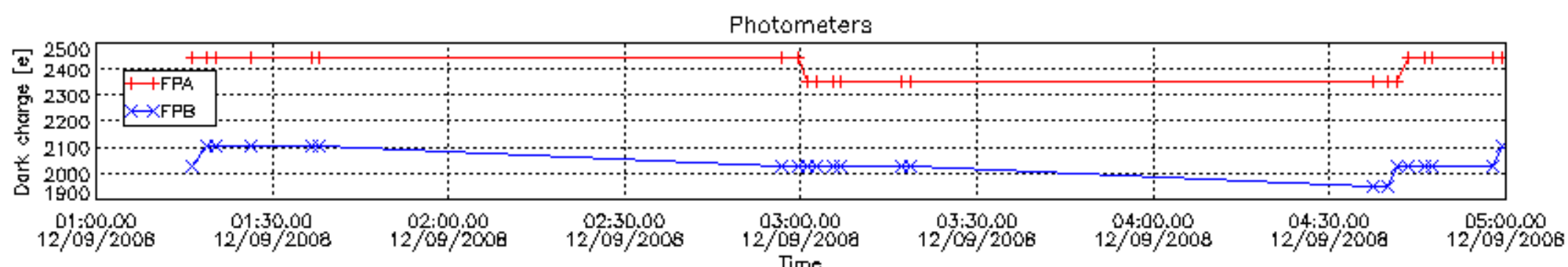
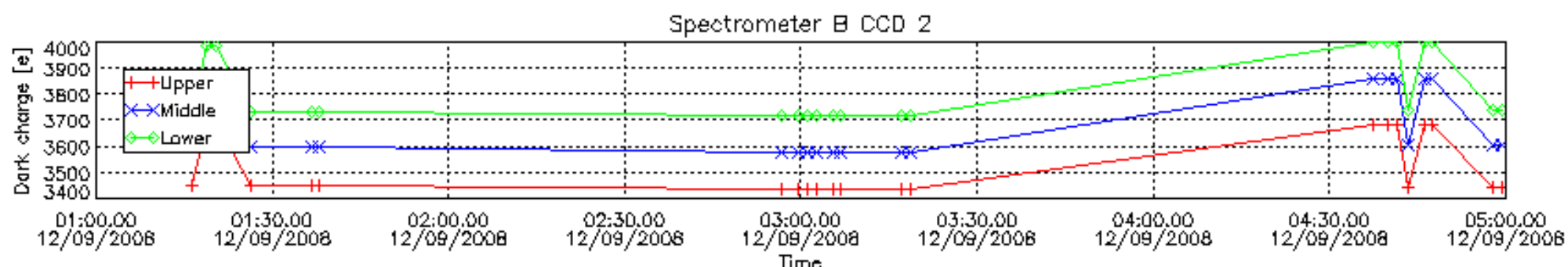
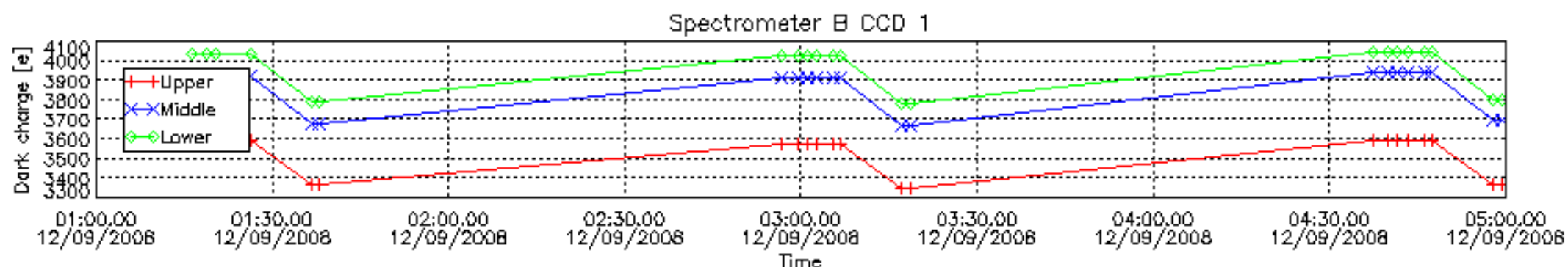
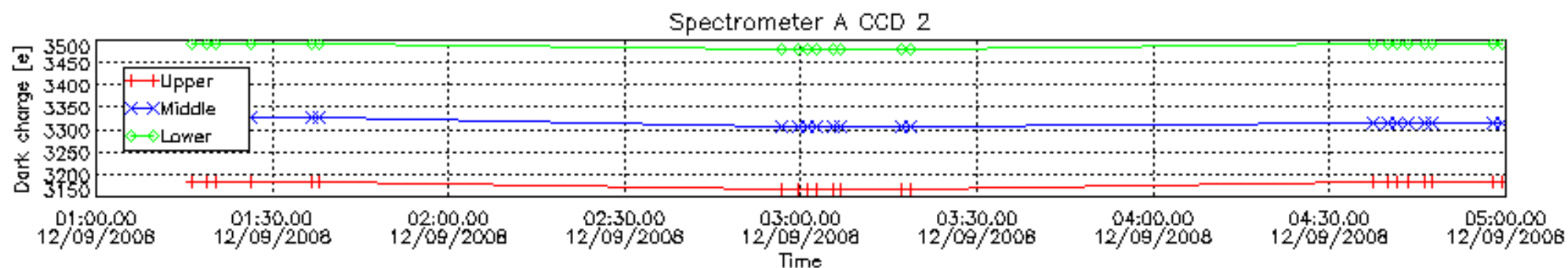
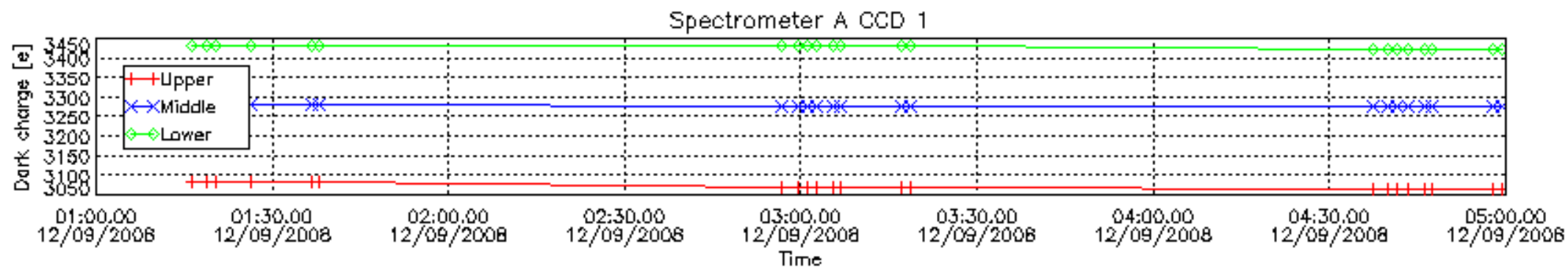
8. Auxiliary Data Files used for the production reported in section 2.4

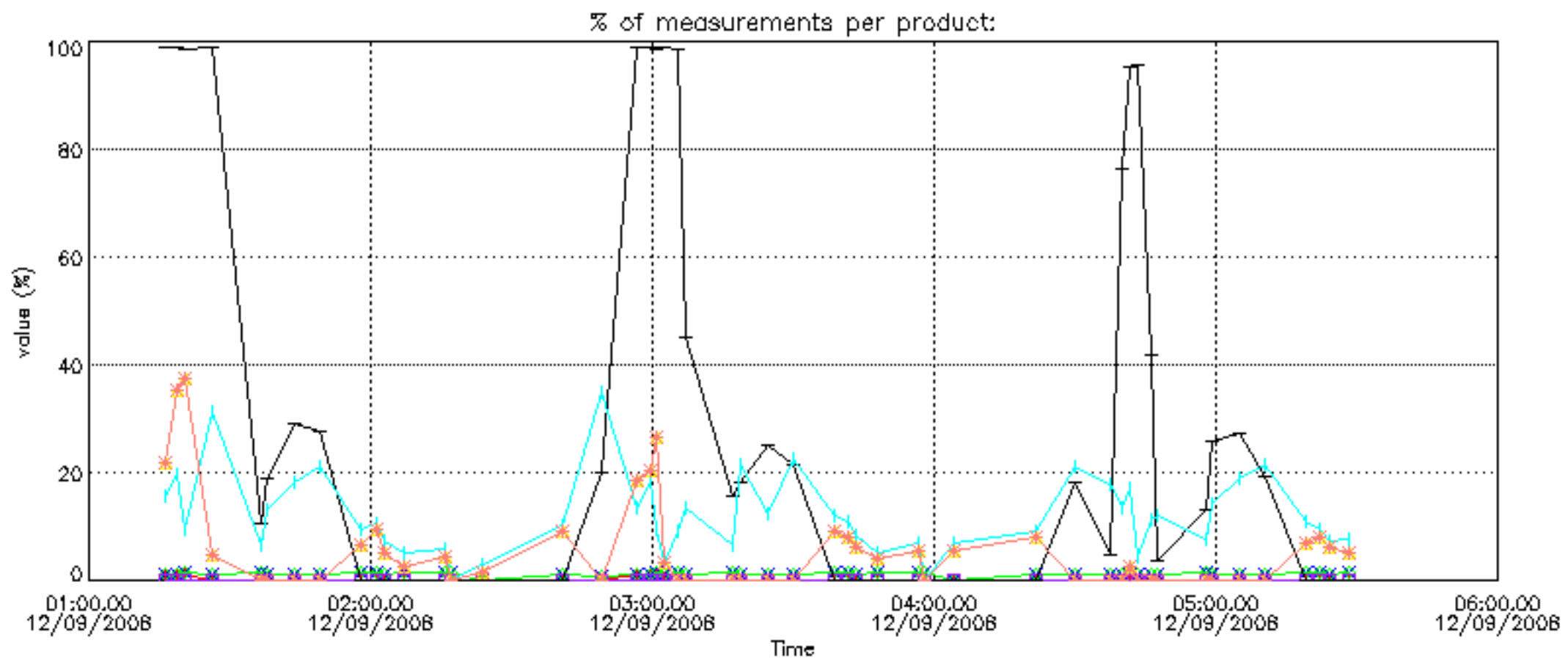
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	12-SEP-2008 01:16:14
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080904_073713_20080902_000000_20100101_000000	1	12-SEP-2008 01:16:14
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	12-SEP-2008 01:16:14
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-SEP-2008 01:16:14
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	12-SEP-2008 01:16:14
ECMWF_FILE	AUX_ECF_AXNECM20080911_072111_20080911_210000_20080912_090000	1	12-SEP-2008 01:16:14
ECMWF_FILE	AUX_ECF_AXNECM20080911_192110_20080912_030000_20080912_150000	35	12-SEP-2008 04:21:35
OPTIONAL_ECMWF_FILE	MISSING	1	12-SEP-2008 01:16:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080912_011153_000044632072_00045_34167_6342.N1	1	12-SEP-2008 01:16:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080912_023135_000054192072_00046_34168_6343.N1	35	12-SEP-2008 04:21:35

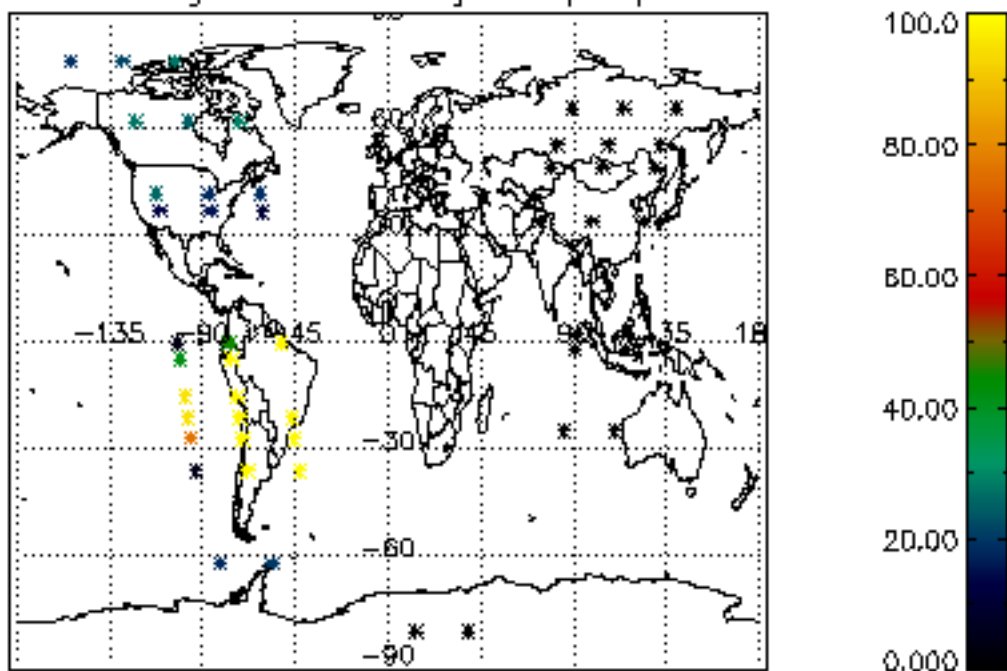




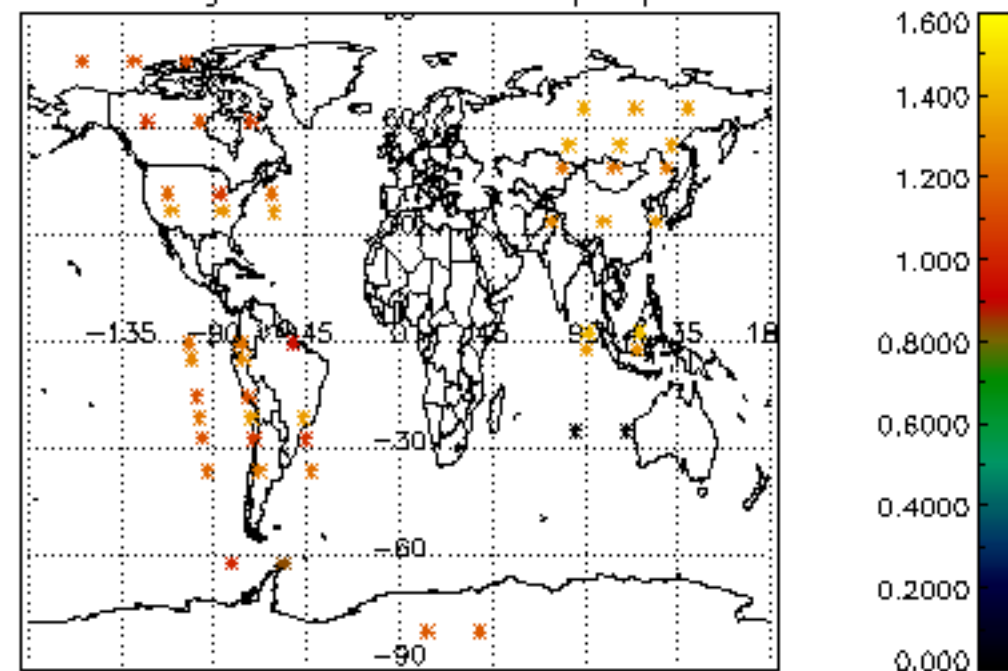




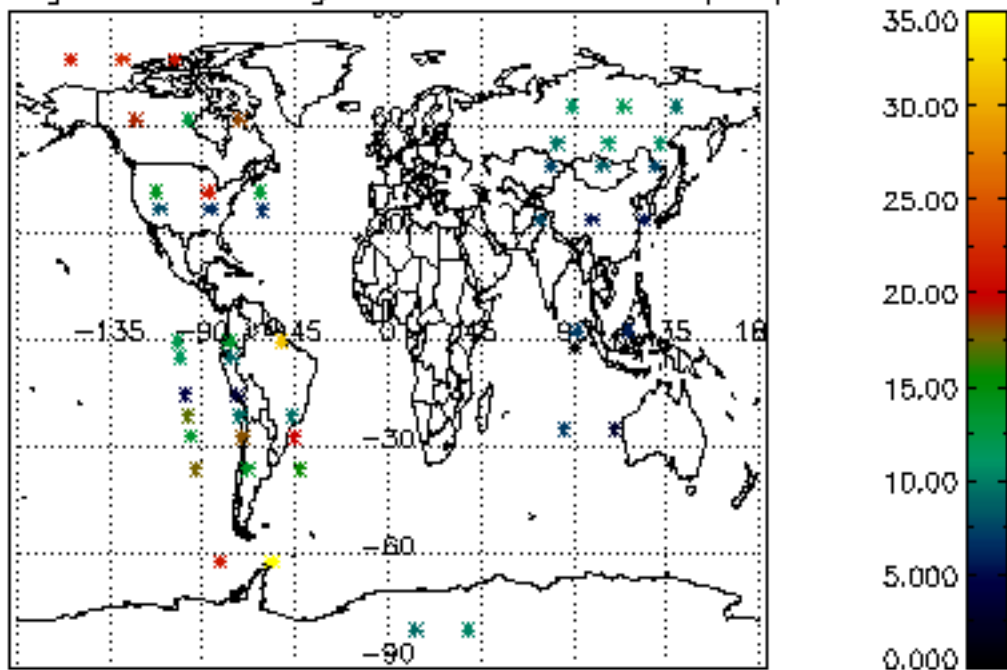
Percentage of cosmic ray hits per profile



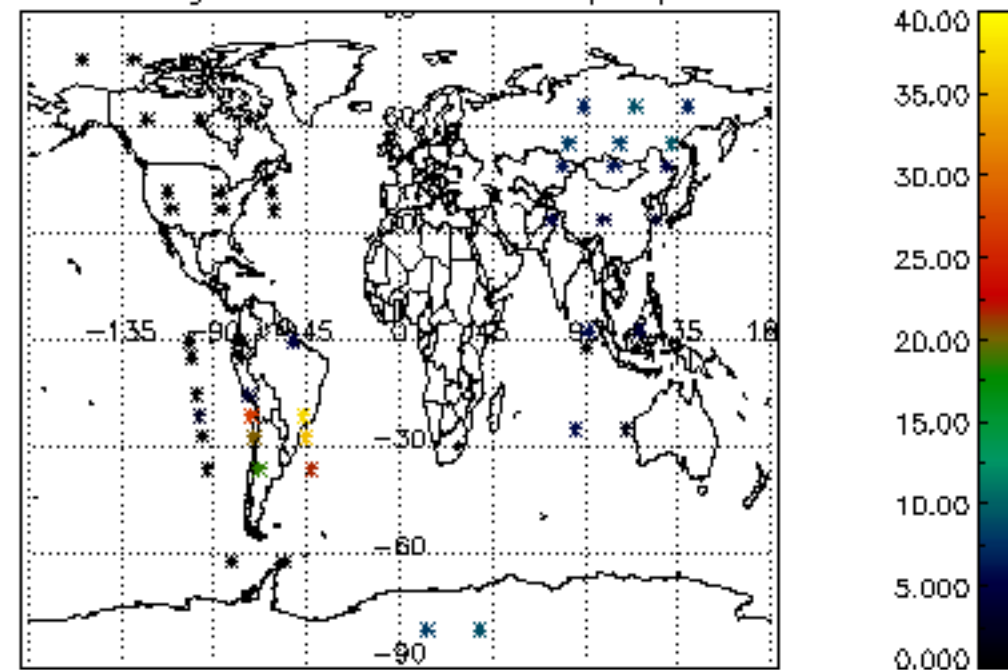
Percentage of datation errors per profile



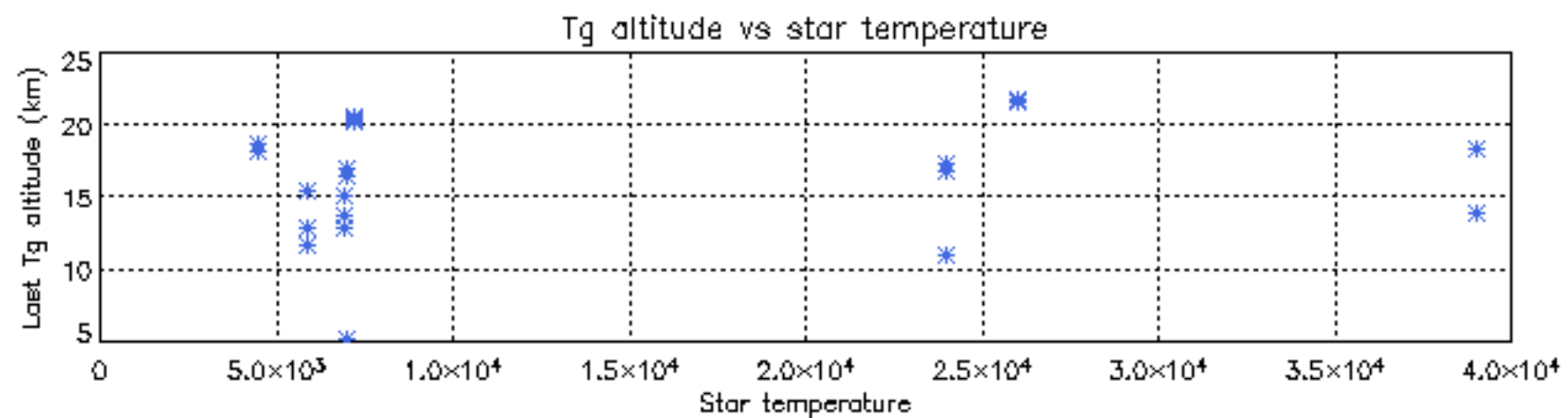
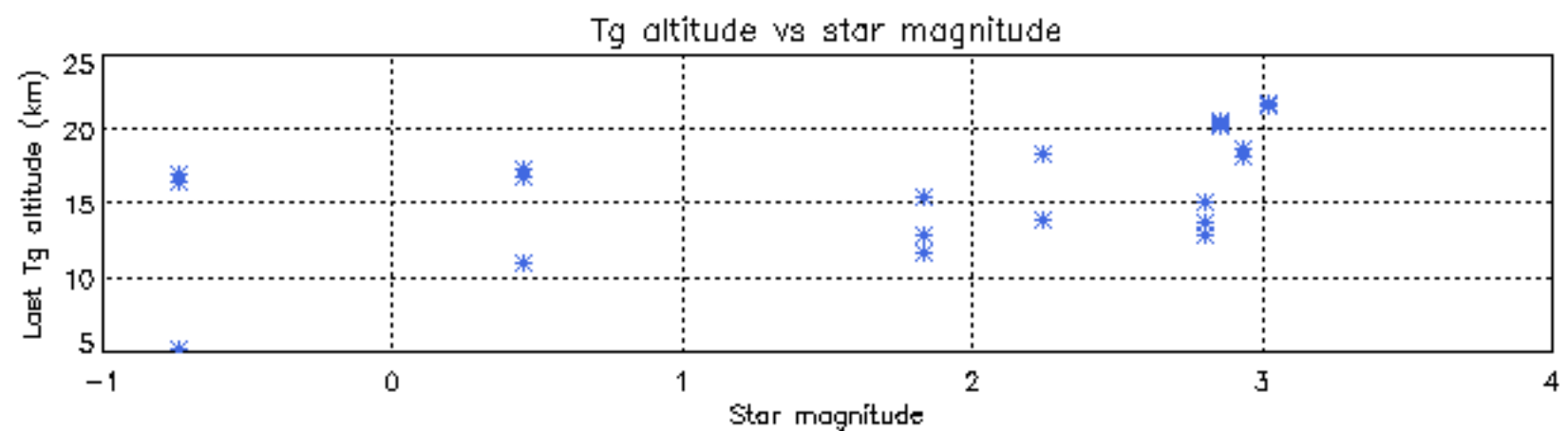
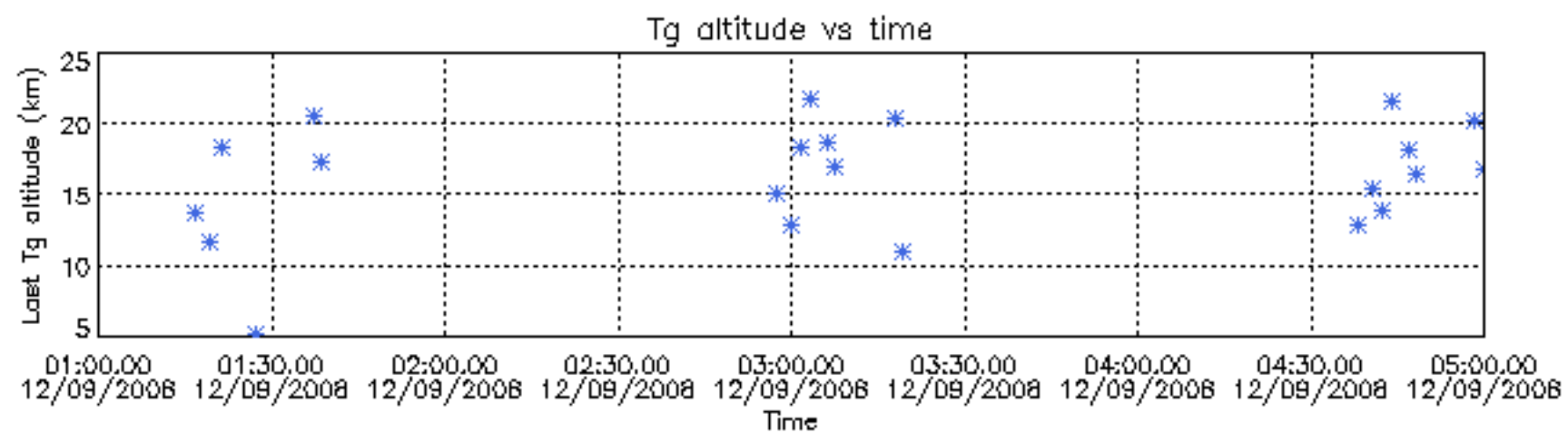
Percentage of star falling outside central band per profile



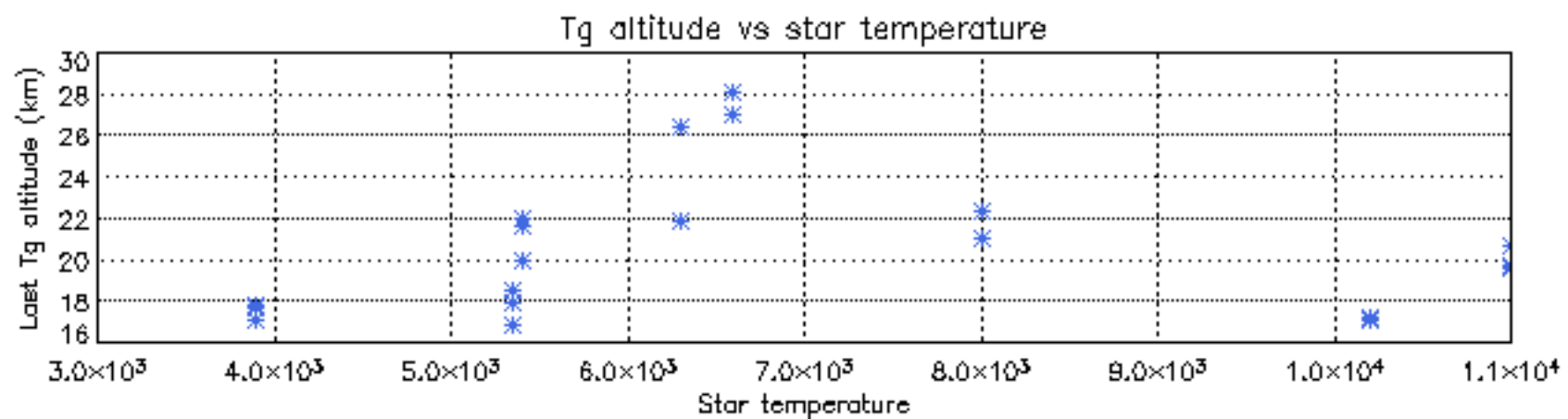
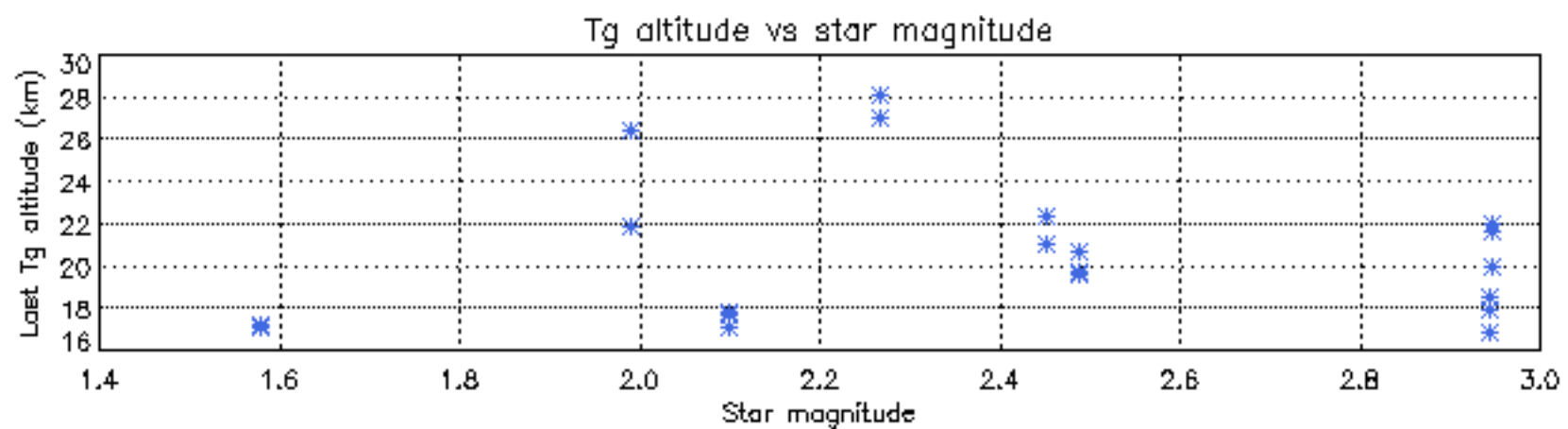
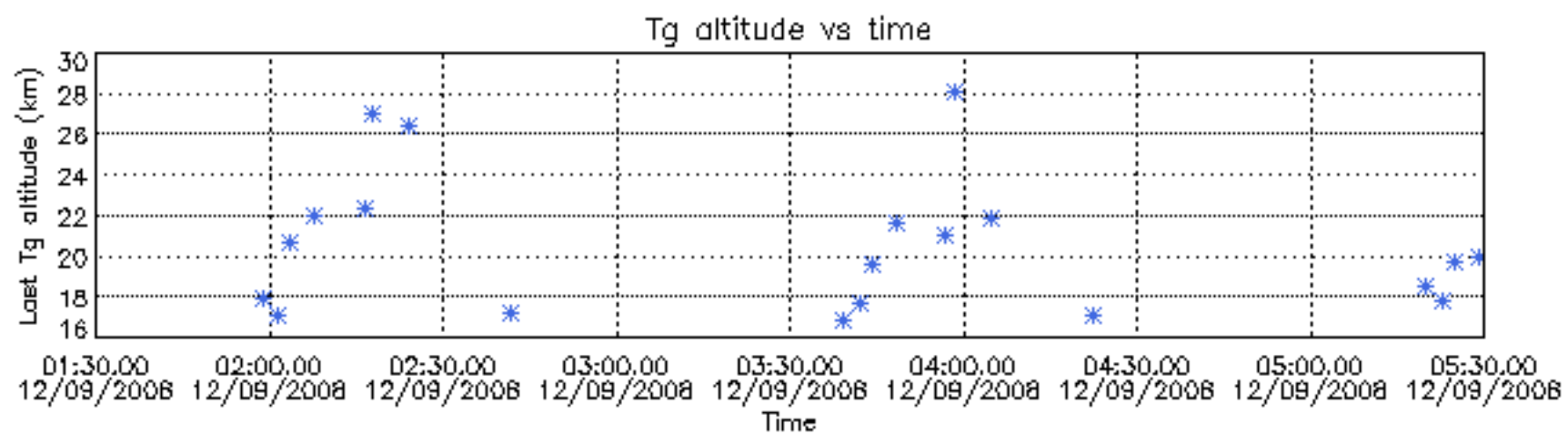
Percentage of saturation errors per profile



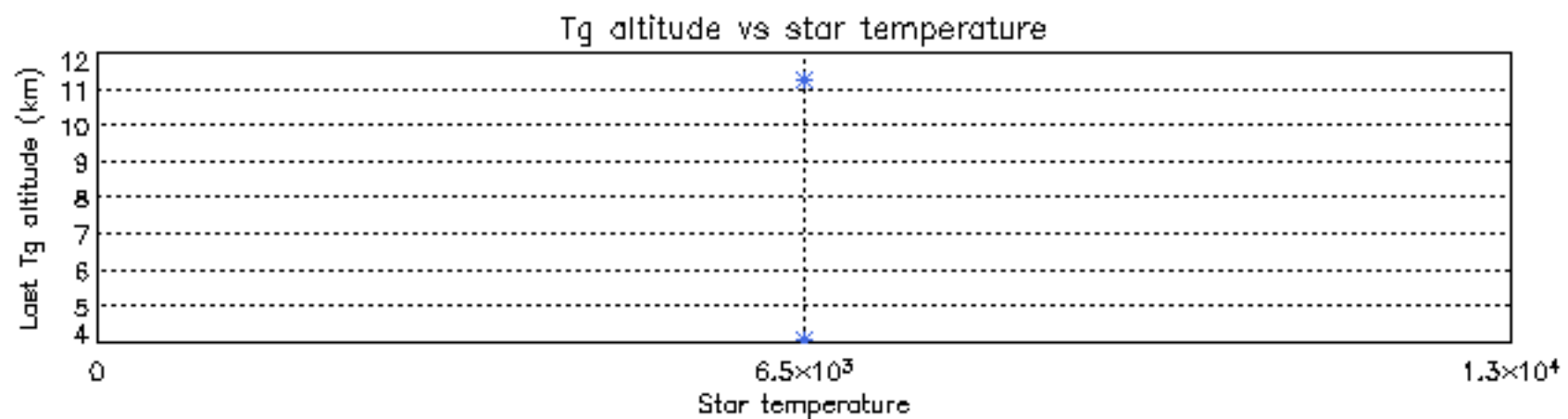
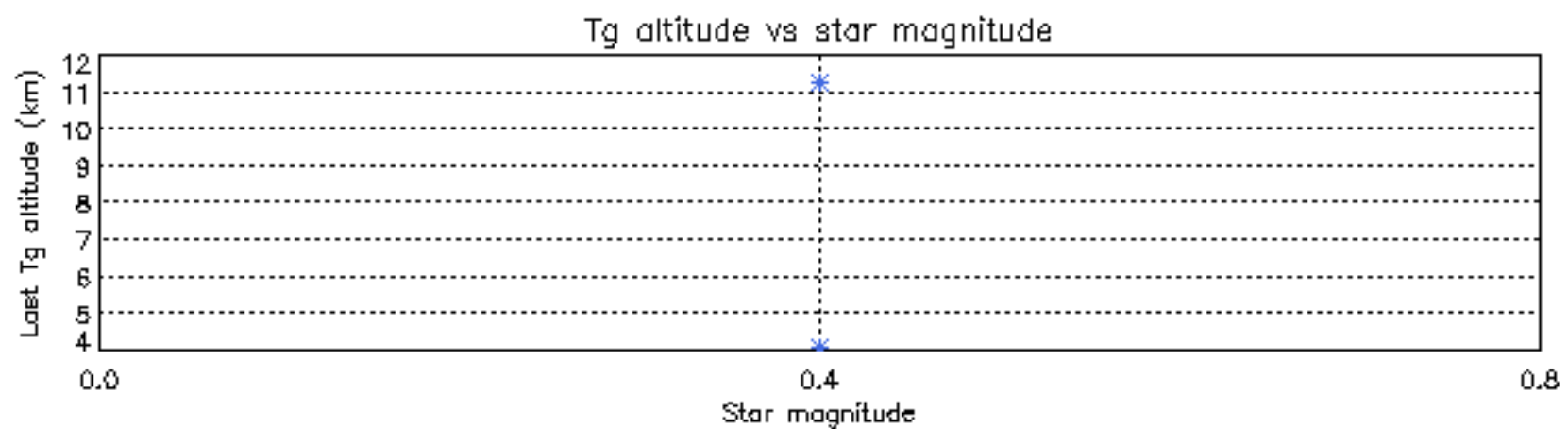
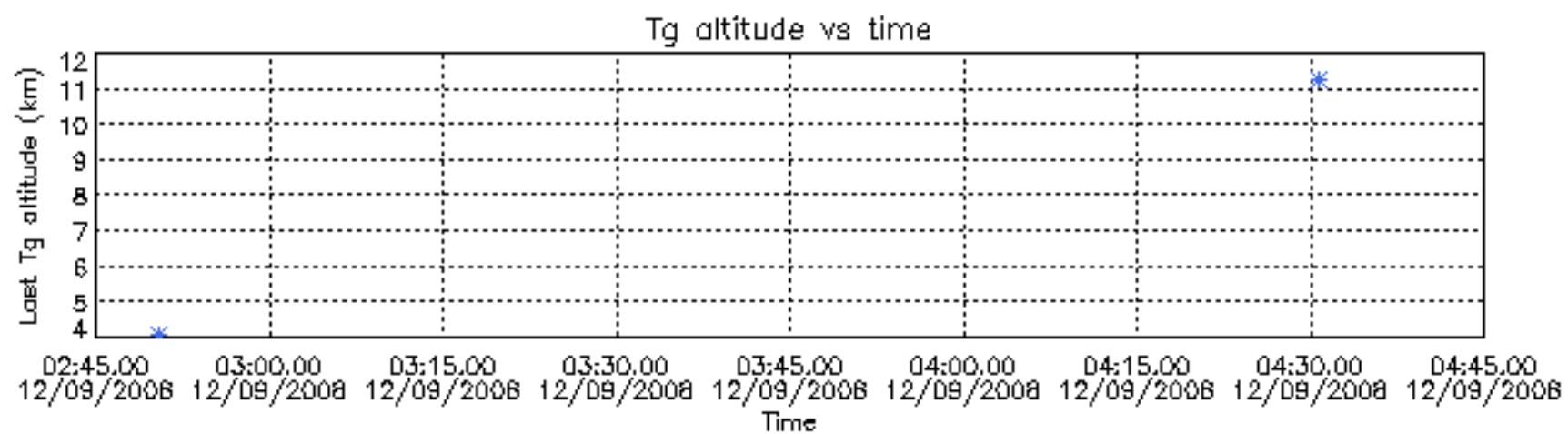
Tangent altitude at which the star is lost

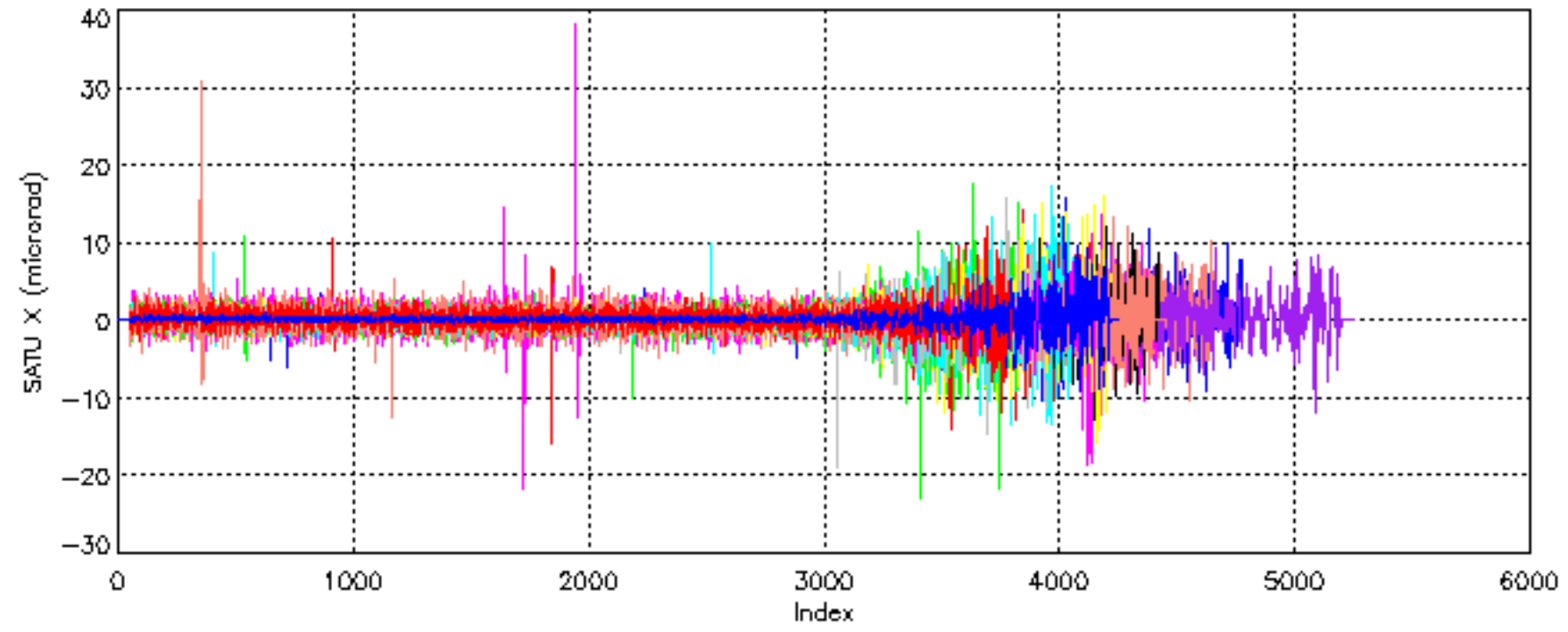


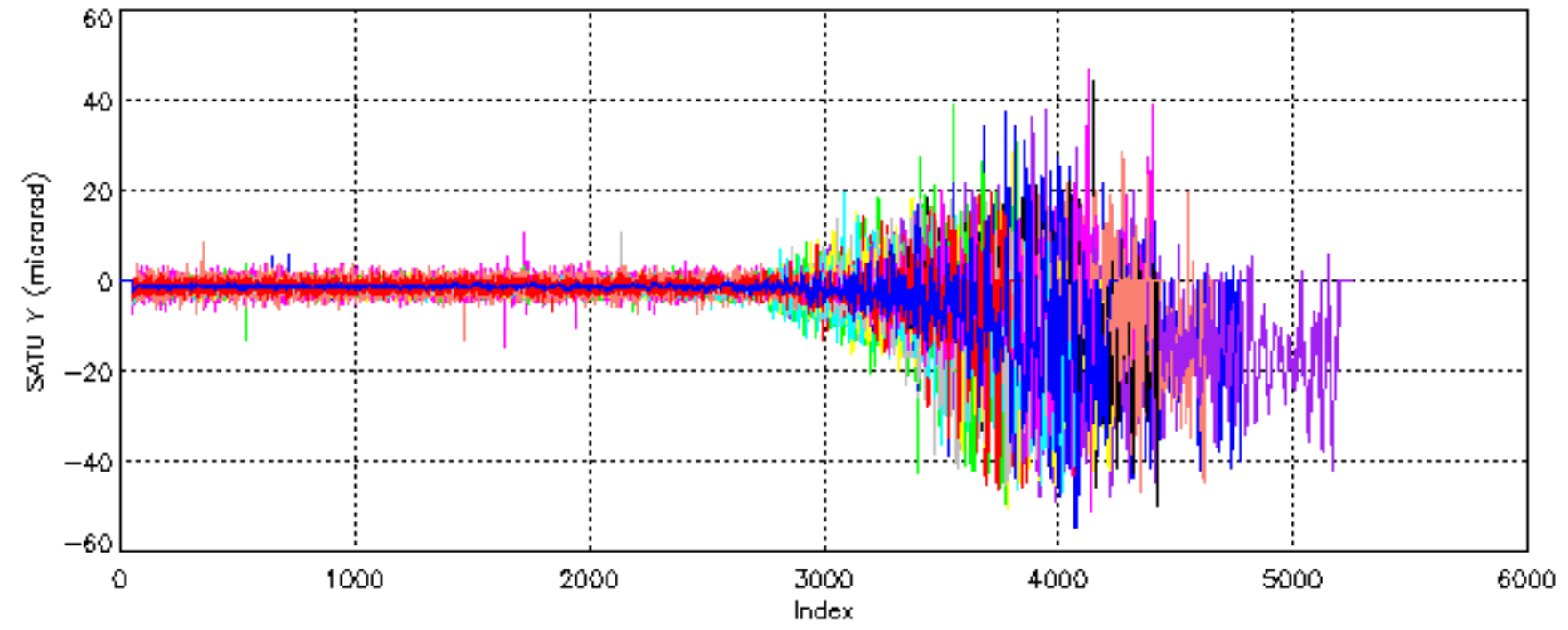
Tangent altitude at which the star is lost

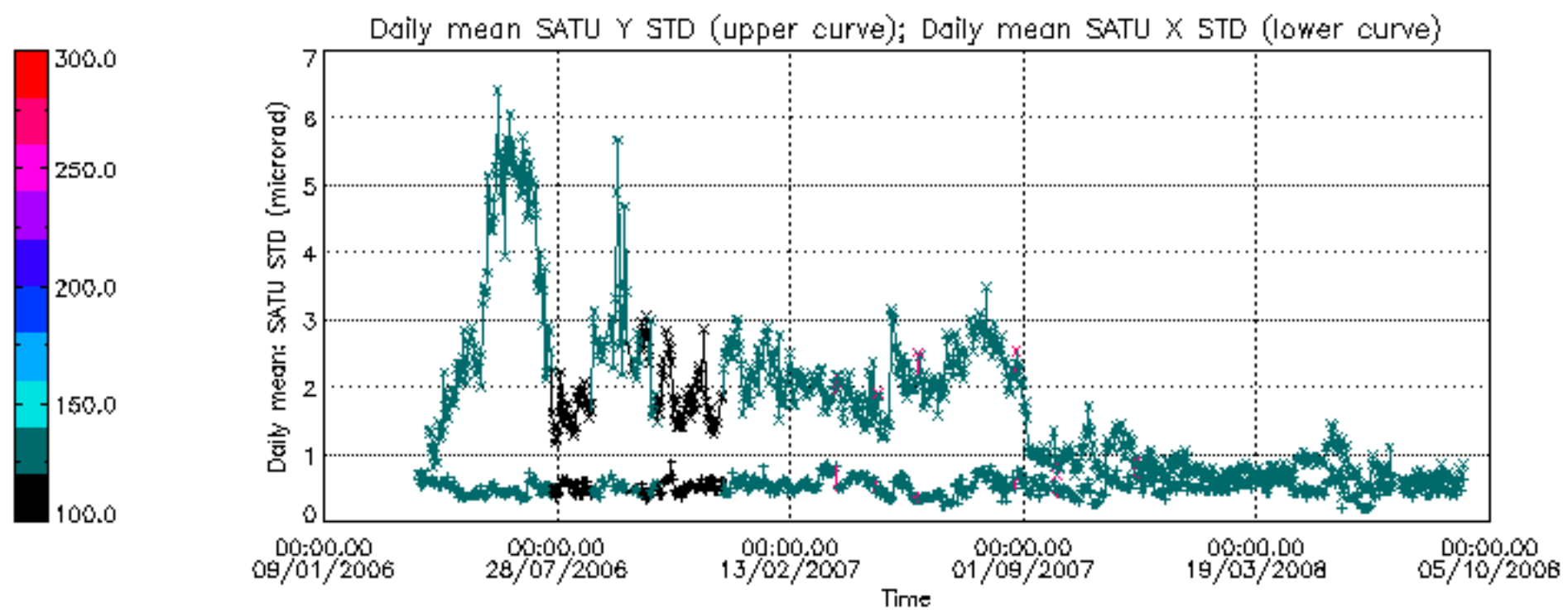


Tangent altitude at which the star is lost









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3; -399.8; 01-SEP-2008 00:25:09; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;34009
4; -276.4; 01-SEP-2008 00:27:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34009
5; -89.7; 01-SEP-2008 00:30:19; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;34009
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7; 646.6; 16-SEP-2008 21:18:31; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;34237
8; 732.3; 16-SEP-2008 21:19:56; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;34237
9; 1074.6; 16-SEP-2008 21:25:39; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;34237
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11; 2176.7; 16-SEP-2008 21:44:01; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34237
12; 2407.7; 16-SEP-2008 21:47:52; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;34237
13; 2525.2; 16-SEP-2008 21:49:49; Bright; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;34237
14; 3019.8; 16-SEP-2008 21:58:04; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34237
15; 3125.5; 16-SEP-2008 21:59:50; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;34237

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3; -338.2; 16-SEP-2008 22:42:42; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;34237
4; -113.7; 16-SEP-2008 22:46:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34237
5; 34.0; 16-SEP-2008 22:48:54; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;34238
6; 647.0; 16-SEP-2008 22:59:07; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34238
7; 732.8; 16-SEP-2008 23:00:33; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;34238
8; 1074.9; 16-SEP-2008 23:06:15; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;34238
9; 1530.0; 16-SEP-2008 23:13:50; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;34238
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11; 2407.5; 16-SEP-2008 23:28:27; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;34238
12; 2524.5; 16-SEP-2008 23:30:25; Bright; 47.0; 58; 21Alp And ; 2.07; 11000;occ; 94; 0;34238
13; 3019.4; 16-SEP-2008 23:38:39; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;34238
14; 3125.0; 16-SEP-2008 23:40:25; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;34238
15; 4484.3; 16-SEP-2008 00:03:04; Bright; 45.5; 24; 66Alp Gem ; 1.58; 10200;occ; 91; 0;34238
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3; -337.2; 17-SEP-2008 00:23:19; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;34238
4; -112.7; 17-SEP-2008 00:27:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34238
5; 34.6; 17-SEP-2008 00:29:30; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;34239
6; 647.4; 17-SEP-2008 00:39:43; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34239
7; 733.3; 17-SEP-2008 00:41:09; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;34239
8; 1075.3; 17-SEP-2008 00:46:51; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;34239
9; 1530.1; 17-SEP-2008 00:54:26; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;34239
10; 2176.5; 17-SEP-2008 01:05:12; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34239
11; 2407.2; 17-SEP-2008 01:09:03; Bright; 41.0; 93; 53Bet Peg ; 2.52; 3100;occ; 82; 0;34239
12; 2523.8; 17-SEP-2008 01:11:00; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;34239
13; 3018.9; 17-SEP-2008 01:19:15; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34239
14; 3124.4; 17-SEP-2008 01:21:00; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;34239
15; 4484.3; 17-SEP-2008 01:43:40; Bright; 45.0; 24; 66Alp Gem ; 1.58; 10200;occ; 90; 0;34239
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3; -336.5; 17-SEP-2008 02:03:55; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;34239
4; -111.8; 17-SEP-2008 02:07:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34239
5; 35.2; 17-SEP-2008 02:10:07; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;34240
6; 647.9; 17-SEP-2008 02:20:20; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;34240
7; 733.8; 17-SEP-2008 02:21:46; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;34240
8; 1075.7; 17-SEP-2008 02:27:27; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;34240
9; 1530.4; 17-SEP-2008 02:35:02; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;34240
10; 2176.3; 17-SEP-2008 02:45:48; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;34240
11; 2407.0; 17-SEP-2008 02:49:39; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;34240
12; 2523.3; 17-SEP-2008 02:51:35; Bright; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;34240
13; 3018.6; 17-SEP-2008 02:59:50; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34240
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3; -576.8; 17-SEP-2008 03:40:31; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;34240
4; -463.4; 17-SEP-2008 03:42:24; Dark ; 65.5; 1; 9Alp CMA ; -1.44; 11000;occ; 131; 0;34240
5; -335.5; 17-SEP-2008 03:44:32; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;34240
6; -110.8; 17-SEP-2008 03:48:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34240
7; 36.0; 17-SEP-2008 03:50:44; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;34241
8; 648.6; 17-SEP-2008 04:00:56; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34241
9; 734.4; 17-SEP-2008 04:02:22; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;34241
10; 1076.3; 17-SEP-2008 04:08:04; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;34241
11; 1530.7; 17-SEP-2008 04:15:38; Dark ; 57.0; 52; 16Bet Cet ; 2.04; 4500;occ; 114; 0;34241
12; 2176.3; 17-SEP-2008 04:26:24; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34241
13; 2406.9; 17-SEP-2008 04:30:15; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34241
14; 2522.7; 17-SEP-2008 04:32:10; Bright; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;34241
15; 3018.2; 17-SEP-2008 04:40:26; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34241
16; 3123.6; 17-SEP-2008 04:42:11; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;34241

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 3; -576.3; 17-SEP-2008 05:21:08; Dark ; 41.0; 132; 15Rho Pup ; 2.80; 6900;occ; 82; 0;34241
 4; -462.2; 17-SEP-2008 05:23:02; Dark ; 67.0; 1; 9Alp CMA ; -1.44; 11000;occ; 134; 0;34241
 5; -334.6; 17-SEP-2008 05:25:09; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;34241
 6; -109.9; 17-SEP-2008 05:28:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34241
 7; 36.6; 17-SEP-2008 05:31:20; Dark ; 42.5; 2; Alp Car ; -0.74; 7000;occ; 85; 0;34242
 8; 649.1; 17-SEP-2008 05:41:33; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;34242
 9; 734.9; 17-SEP-2008 05:42:59; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;34242
 10; 1076.7; 17-SEP-2008 05:48:40; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;34242
 11; 1530.8; 17-SEP-2008 05:56:15; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;34242
 12; 2176.2; 17-SEP-2008 06:07:00; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34242
 13; 2406.7; 17-SEP-2008 06:10:50; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34242
 14; 2522.1; 17-SEP-2008 06:12:46; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;34242
 15; 3017.8; 17-SEP-2008 06:21:02; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34242
 16; 3122.9; 17-SEP-2008 06:22:47; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;34242

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 3; 2174.9; 17-SEP-2008 21:12:22; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;34251
 4; 2404.7; 17-SEP-2008 21:16:12; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34251
 5; 2516.2; 17-SEP-2008 21:18:04; Bright; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;34251
 6; 3013.9; 17-SEP-2008 21:26:21; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;34251
 7; 3118.1; 17-SEP-2008 21:28:05; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;34251
 8; 4486.1; 17-SEP-2008 21:50:53; Bright; 45.5; 24; 66Alp Gem ; 1.58; 10200;occ; 91; 0;34251
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 2; -324.9; 17-SEP-2008 23:51:54; Dark ; 48.0; 23; 21Eps CMA ; 1.50; 26000;occ; 96; 0;34252
 3; -99.2; 17-SEP-2008 23:55:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34252
 4; 43.5; 17-SEP-2008 23:58:03; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;34253
 5; 654.0; 18-SEP-2008 00:08:13; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;34253
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 7; 1080.9; 18-SEP-2008 00:15:20; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;34253
 8; 1532.2; 18-SEP-2008 00:22:51; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;34253
 9; 2174.4; 18-SEP-2008 00:33:33; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;34253
 10; 2404.1; 18-SEP-2008 00:37:23; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34253
 11; 2515.0; 18-SEP-2008 00:39:14; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;34253
 12; 3012.9; 18-SEP-2008 00:47:32; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34253
 13; 3116.8; 18-SEP-2008 00:49:16; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34253
 14; 4486.3; 18-SEP-2008 01:12:05; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;34253
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 2; 736.8; 17-SEP-2008 12:25:24; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;34246
 3; 1078.3; 17-SEP-2008 12:31:06; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;34246
 4; 1531.4; 17-SEP-2008 12:38:39; Dark ; 56.5; 52; 16Bet Cet ; 2.04; 4500;occ; 113; 0;34246

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 5; 654.5; 18-SEP-2008 01:48:49; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34254
 6; 740.7; 18-SEP-2008 01:50:16; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;34254
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 8; 1532.4; 18-SEP-2008 02:03:27; Dark ; 53.0; 52; 16Bet Cet ; 2.04; 4500;occ; 106; 0;34254
 9; 2174.3; 18-SEP-2008 02:14:09; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34254
 10; 2403.8; 18-SEP-2008 02:17:59; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;34254
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 12; 3012.5; 18-SEP-2008 02:28:07; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34254
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4; -447.3; 18-SEP-2008 03:11:04; Dark ; 60.5; 1; 9Alp CMA ; -1.44; 11000;occ; 121; 0;34254
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6; -97.3; 18-SEP-2008 03:16:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34254
7; 44.9; 18-SEP-2008 03:19:16; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;34255
8; 655.2; 18-SEP-2008 03:29:26; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34255
9; 741.3; 18-SEP-2008 03:30:52; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;34255
10; 1081.7; 18-SEP-2008 03:36:33; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;34255
11; 1532.7; 18-SEP-2008 03:44:04; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;34255
12; 2174.4; 18-SEP-2008 03:54:45; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34255
13; 2403.8; 18-SEP-2008 03:58:35; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34255
14; 2514.0; 18-SEP-2008 04:00:25; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;34255
15; 3012.3; 18-SEP-2008 04:08:43; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;34255
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13; 2505.7; 19-SEP-2008 03:28:40; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;34269
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 5; 63.0; 20-SEP-2008 02:16:20; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;34283
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 9; 2171.1; 20-SEP-2008 02:51:28; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34283
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 9; 2169.9; 21-SEP-2008 00:39:14; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;34296
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8; 769.3; 22-SEP-2008 08:07:16; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;34315
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5; -221.2; 25-SEP-2008 06:15:55; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;34356
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7; 30.5; 25-SEP-2008 06:20:07; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;34357
8; 787.8; 25-SEP-2008 06:32:44; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;34357
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5; 4585.4; 26-SEP-2008 08:45:01; Bright; 53.5; 17; 78Bet Gem ; 1.16; 4500;occ; 107; 0;34372
6; 5105.3; 26-SEP-2008 08:53:41; Dark ; 28.0; 8; 10Alp CMi ; 0.40; 6500;occ; 56; 0;34372
7; 5539.0; 26-SEP-2008 09:00:54; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;34372
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9; 5832.8; 26-SEP-2008 09:05:48; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;34372
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11; 6077.5; 26-SEP-2008 09:09:53; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;34372
12; 6903.2; 26-SEP-2008 09:23:39; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;34372
13; 7158.8; 26-SEP-2008 09:27:54; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;34372
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4; 3058.1; 26-SEP-2008 10:00:09; Bright; 56.5; 76; 27Gam Cas ; 2.30; 30000;occ; 113; 0;34373
5; 4585.7; 26-SEP-2008 10:25:37; Bright; 53.0; 17; 78Bet Gem ; 1.16; 4500;occ; 106; 0;34373
6; 5106.2; 26-SEP-2008 10:34:17; Dark ; 28.0; 8; 10Alp CMi ; 0.40; 6500;occ; 56; 0;34373
7; 5539.7; 26-SEP-2008 10:41:31; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;34373
8; 5741.9; 26-SEP-2008 10:44:53; Dark ; 47.5; 88; 31Eta CMA ; 2.45; 20000;occ; 95; 0;34373
9; 5833.8; 26-SEP-2008 10:46:25; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;34373
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12; 6903.8; 26-SEP-2008 11:04:15; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;34373
13; 7159.1; 26-SEP-2008 11:08:30; Dark ; 39.5; 84; Alp Phe ; 2.40; 4500;occ; 79; 0;34373
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3; 2968.8; 26-SEP-2008 11:39:16; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;34374
4; 3057.6; 26-SEP-2008 11:40:45; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;34374

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7; 5742.9; 26-SEP-2008 12:25:30; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;34374
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12; 7159.4; 26-SEP-2008 12:49:07; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;34374
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3; 2968.6; 26-SEP-2008 13:19:52; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34375
4; 3057.2; 26-SEP-2008 13:21:20; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34375
5; 4586.1; 26-SEP-2008 13:46:49; Bright; 53.5; 17; 78Bet Gem ; 1.16; 4500;occ; 107; 0;34375
6; 5541.2; 26-SEP-2008 14:02:44; Dark ; 43.5; 132; 15Rho Pup ; 2.80; 6900;occ; 87; 0;34375
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8; 5836.1; 26-SEP-2008 14:07:39; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;34375
9; 5951.5; 26-SEP-2008 14:09:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34375
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11; 6905.6; 26-SEP-2008 14:25:29; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;34375
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3; 2387.9; 26-SEP-2008 14:50:47; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34376
4; 2968.3; 26-SEP-2008 15:00:27; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;34376
5; 3056.8; 26-SEP-2008 15:01:56; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34376
6; 4586.4; 26-SEP-2008 15:27:25; Bright; 52.5; 17; 78Bet Gem ; 1.16; 4500;occ; 105; 0;34376
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4; 2387.8; 26-SEP-2008 16:31:23; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34377
5; 2968.0; 26-SEP-2008 16:41:03; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34377
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7; 4586.5; 26-SEP-2008 17:08:01; Bright; 53.5; 17; 78Bet Gem ; 1.16; 4500;occ; 107; 0;34377
8; 5542.6; 26-SEP-2008 17:23:58; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;34377
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4; 2387.7; 26-SEP-2008 18:11:59; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;34378
5; 2967.6; 26-SEP-2008 18:21:39; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34378
6; 3055.8; 26-SEP-2008 18:23:07; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34378
7; 4586.8; 26-SEP-2008 18:48:38; Bright; 55.0; 17; 78Bet Gem ; 1.16; 4500;occ; 110; 0;34378
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9; 5746.6; 26-SEP-2008 19:07:58; Dark ; 45.0; 88; 31Eta CMA ; 2.45; 20000;occ; 90; 0;34378
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4; 2386.9; 27-SEP-2008 21:01:33; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34394
5; 2962.8; 27-SEP-2008 21:11:09; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;34394

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4; 1586.4; 27-SEP-2008 07:23:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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7; 2869.5; 27-SEP-2008 07:44:48; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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3; 1947.4; 27-SEP-2008 09:10:02; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
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13; 4278.7; 27-SEP-2008 09:48:53; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
14; 4732.6; 27-SEP-2008 09:56:27; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
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17; 5500.5; 27-SEP-2008 10:09:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
18; 5813.8; 27-SEP-2008 10:14:28; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;34387
19; 6784.3; 27-SEP-2008 10:30:39; Dark ; 105.0; 9; Alp Eri ; 0.45; 24000;occ; 210; 0;34387
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6; 4527.3; 27-SEP-2008 11:33:38; Bright; 85.5; 166; 17Eps Leo ; 2.98; 6000;occ; 171; 0;34388
7; 5092.7; 27-SEP-2008 11:43:03; Dark ; 99.0; 48; 30Alp Hya ; 1.98; 4100;occ; 198; 0;34388
8; 5492.8; 27-SEP-2008 11:49:43; Dark ; 100.0; 132; 15Rho Pup ; 2.80; 6900;occ; 200; 0;34388
9; 5674.5; 27-SEP-2008 11:52:45; Dark ; 97.5; 65; Lam Vel ; 2.20; 4400;occ; 195; 0;34388

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19; 6856.1; 30-SEP-2008 19:00:35; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;34435
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1; 1141.7; 30-SEP-2008 19:05:57; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;34436
2; 1557.7; 30-SEP-2008 19:12:53; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;34436
3; 2167.9; 30-SEP-2008 19:23:03; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34436
4; 2386.2; 30-SEP-2008 19:26:41; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;34436
5; 2951.2; 30-SEP-2008 19:36:06; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;34436
6; 3031.7; 30-SEP-2008 19:37:27; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34436
7; 3428.6; 30-SEP-2008 19:44:04; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;34436
8; 3905.7; 30-SEP-2008 19:52:01; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;34436
9; 3995.8; 30-SEP-2008 19:53:31; Bright; 35.5; 82; 48Bet UMA ; 2.37; 10600;occ; 71; 0;34436
10; 4588.0; 30-SEP-2008 20:03:23; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;34436
11; 5161.9; 30-SEP-2008 20:12:57; Dark ; 49.5; 48; 30Alp Hya ; 1.98; 4100;occ; 99; 0;34436
12; 5742.5; 30-SEP-2008 20:22:38; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;34436
13; 5898.1; 30-SEP-2008 20:25:13; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;34436
14; 5995.4; 30-SEP-2008 20:26:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34436
15; 6123.8; 30-SEP-2008 20:28:59; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;34436
16; 6208.1; 30-SEP-2008 20:30:23; Dark ; 57.5; 2; Alp Car ; -0.74; 7000;occ; 115; 0;34436
17; 6768.6; 30-SEP-2008 20:39:44; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;34436
18; 6856.3; 30-SEP-2008 20:41:11; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;34436

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