

GOMOS Daily Report 30-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	02OCT2008 05:41:47
Data source version	GOMOS/5.00
Start time of products	30SEP2008 00:05:41
Stop time of products	30SEP2008 04:30:45
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	0

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

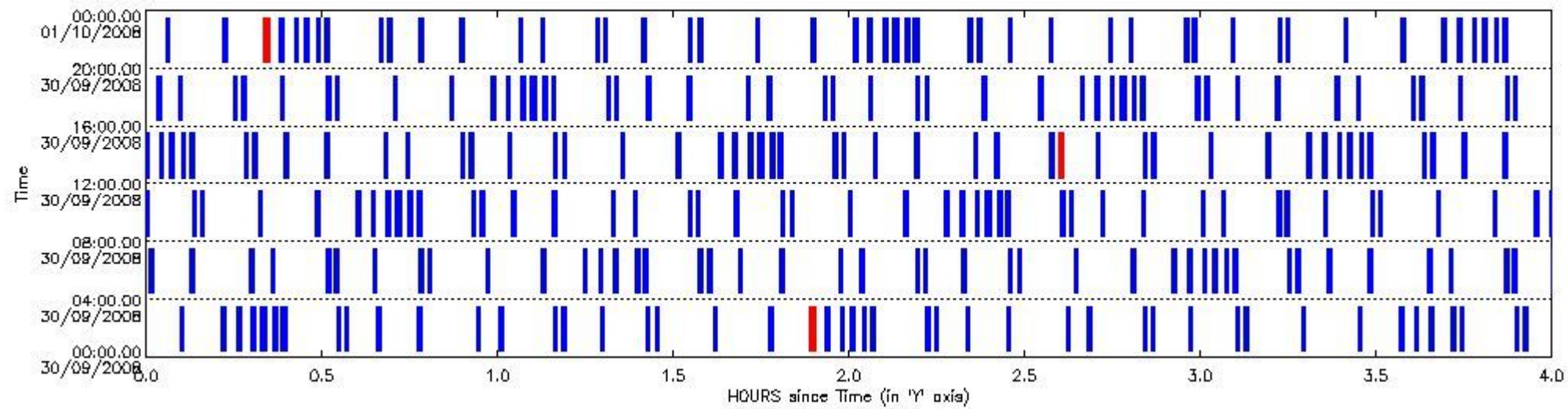
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

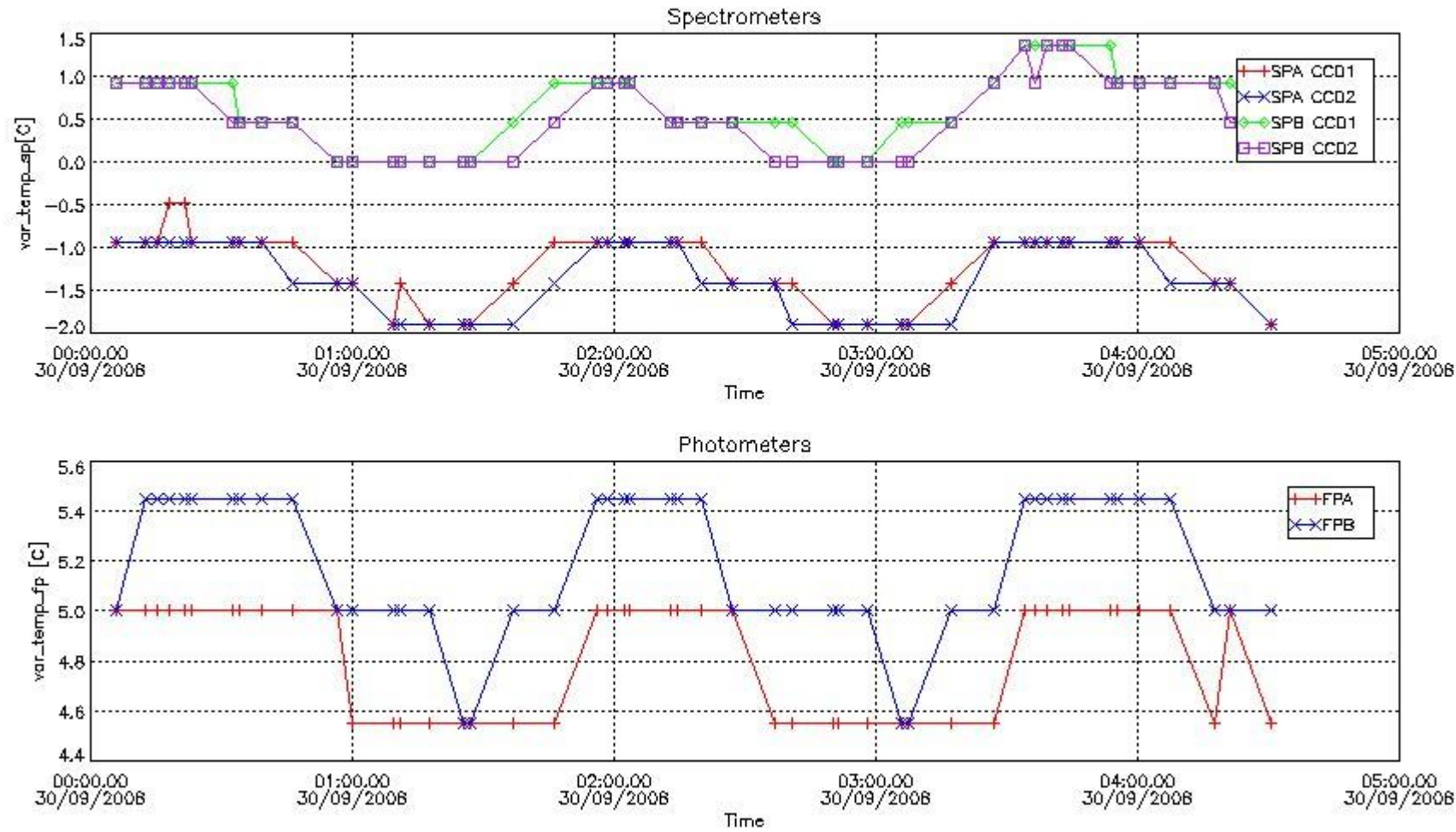
UTC start time	Star name	Star ID	Orbit
30-SEP-2008 01:53:18	15RhoPup	132	34425
30-SEP-2008 14:35:40	27GamCas	76	34433
30-SEP-2008 20:20:03	15RhoPup	132	34436

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_1PNPDE20080930_000541_000000462072_00302_34424_2733.N1	30-SEP-2008 00:05:41	Twilight	46.000	48	30Alp Hya	1.9770	4100.0	92	34424	No
2	GOM_TRA_1PNPDE20080930_001242_000000462072_00302_34424_2863.N1	30-SEP-2008 00:12:42	Dark	45.500	132	15Rho Pup	2.8030	6900.0	91	34424	No
3	GOM_TRA_1PNPDE20080930_001522_000000452072_00302_34424_2864.N1	30-SEP-2008 00:15:22	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	34424	No
4	GOM_TRA_1PNPDE20080930_001755_000000412072_00302_34424_2865.N1	30-SEP-2008 00:17:55	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	34424	No
5	GOM_TRA_1PNPDE20080930_002139_000000442072_00303_34425_2866.N1	30-SEP-2008 00:21:39	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	34425	No
6	GOM_TRA_1PNPDE20080930_002303_000000572072_00303_34425_2867.N1	30-SEP-2008 00:23:03	Dark	56.500	2	Alp Car	-0.73600	7000.0	113	34425	No
7	GOM_TRA_1PNPDE20080930_003228_000000382072_00303_34425_2868.N1	30-SEP-2008 00:32:28	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	34425	No
8	GOM_TRA_1PNPDE20080930_003355_000000402072_00303_34425_2869.N1	30-SEP-2008 00:33:55	Dark	39.500	9	Alp Eri	0.45300	24000.	79	34425	No

9	GOM_TRA_1PNPDE20080930_003918_000000432072_00303_34425_2870.N1	30-SEP-2008 00:39:18	Straylight	42.500	84	Alp Phe	2.3970	4500.0	85	34425	No
10	GOM_TRA_1PNPDE20080930_004616_000000502072_00303_34425_2871.N1	30-SEP-2008 00:46:16	Straylight	49.500	52	16Bet Cet	2.0370	4500.0	99	34425	No
11	GOM_TRA_1PNPDE20080930_005627_000000362072_00303_34425_2872.N1	30-SEP-2008 00:56:27	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	34425	No
12	GOM_TRA_1PNPDE20080930_010006_000000522072_00303_34425_2873.N1	30-SEP-2008 01:00:06	Bright	52.000	93	53Bet Peg	2.5200	3100.0	104	34425	No
13	GOM_TRA_1PNPDE20080930_010934_000000372072_00303_34425_2874.N1	30-SEP-2008 01:09:34	Bright	36.500	74	11Bet Cas	2.2680	6600.0	73	34425	No
14	GOM_TRA_1PNPDE20080930_011056_000000402072_00303_34425_2875.N1	30-SEP-2008 01:10:56	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	34425	No
15	GOM_TRA_1PNPDE20080930_011728_000000362072_00303_34425_2876.N1	30-SEP-2008 01:17:28	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	34425	No
16	GOM_TRA_1PNPDE20080930_012524_000000352072_00303_34425_2877.N1	30-SEP-2008 01:25:24	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	34425	No
17	GOM_TRA_1PNPDE20080930_012654_000000342072_00303_34425_2878.N1	30-SEP-2008 01:26:54	Bright	34.000	82	48Bet UMa	2.3650	10600.	68	34425	No
18	GOM_TRA_1PNPDE20080930_013645_000000352072_00303_34425_2879.N1	30-SEP-2008 01:36:45	Bright	35.000	166	17Eps Leo	2.9800	6000.0	70	34425	No
19	GOM_TRA_1PNPDE20080930_014617_000000472072_00303_34425_3012.N1	30-SEP-2008 01:46:17	Twilight	47.000	48	30Alp Hya	1.9770	4100.0	94	34425	No
20	GOM_TRA_1PNPDE20080930_015558_000000422072_00303_34425_3013.N1	30-SEP-2008 01:55:58	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	34425	No
21	GOM_TRA_1PNPDE20080930_015832_000000392072_00303_34425_3014.N1	30-SEP-2008 01:58:32	Dark	39.000	34	Gam2Vel	1.7930	23000.	78	34425	No
22	GOM_TRA_1PNPDE20080930_020215_000000442072_00304_34426_3015.N1	30-SEP-2008 02:02:15	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	34426	No
23	GOM_TRA_1PNPDE20080930_020339_000000512072_00304_34426_3016.N1	30-SEP-2008 02:03:39	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	34426	No
24	GOM_TRA_1PNPDE20080930_021304_000000392072_00304_34426_3017.N1	30-SEP-2008 02:13:04	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	34426	No
25	GOM_TRA_1PNPDE20080930_021432_000000442072_00304_34426_3018.N1	30-SEP-2008 02:14:32	Dark	43.500	9	Alp Eri	0.45300	24000.	87	34426	No
26	GOM_TRA_1PNPDE20080930_021954_000000442072_00304_34426_3019.N1	30-SEP-2008 02:19:54	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	34426	No
27	GOM_TRA_1PNPDE20080930_022652_000000462072_00304_34426_3020.N1	30-SEP-2008 02:26:52	Straylight	46.000	52	16Bet Cet	2.0370	4500.0	92	34426	No
28	GOM_TRA_1PNPDE20080930_023703_000000362072_00304_34426_3021.N1	30-SEP-2008 02:37:03	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	34426	No
29	GOM_TRA_1PNPDE20080930_024042_000000392072_00304_34426_3022.N1	30-SEP-2008 02:40:42	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	34426	No
30	GOM_TRA_1PNPDE20080930_025009_000000372072_00304_34426_3023.N1	30-SEP-2008 02:50:09	Bright	36.500	74	11Bet Cas	2.2680	6600.0	73	34426	No
31	GOM_TRA_1PNPDE20080930_025131_000000392072_00304_34426_3024.N1	30-SEP-2008 02:51:31	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	34426	No
32	GOM_TRA_1PNPDE20080930_025804_000000342072_00304_34426_3025.N1	30-SEP-2008 02:58:04	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	34426	No
33	GOM_TRA_1PNPDE20080930_030600_000000352072_00304_34426_3174.N1	30-SEP-2008 03:06:00	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	34426	No
34	GOM_TRA_1PNPDE20080930_030730_000000472072_00304_34426_3175.N1	30-SEP-2008 03:07:30	Bright	46.500	82	48Bet UMa	2.3650	10600.	93	34426	No
35	GOM_TRA_1PNPDE20080930_031722_000000352072_00304_34426_3176.N1	30-SEP-2008 03:17:22	Bright	34.500	166	17Eps Leo	2.9800	6000.0	69	34426	No
36	GOM_TRA_1PNPDE20080930_032654_000000392072_00304_34426_3177.N1	30-SEP-2008 03:26:54	Twilight	38.500	48	30Alp Hya	1.9770	4100.0	77	34426	No
37	GOM_TRA_1PNPDE20080930_033355_000000462072_00304_34426_3178.N1	30-SEP-2008 03:33:55	Dark	45.500	132	15Rho Pup	2.8030	6900.0	91	34426	No
38	GOM_TRA_1PNPDE20080930_033634_000000422072_00304_34426_3179.N1	30-SEP-2008 03:36:34	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	34426	No
39	GOM_TRA_1PNPDE20080930_033908_000000412072_00304_34426_3180.N1	30-SEP-2008 03:39:08	Dark	40.500	34	Gam2Vel	1.7930	23000.	81	34426	No
40	GOM_TRA_1PNPDE20080930_034252_000000432072_00305_34427_3181.N1	30-SEP-2008 03:42:52	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	34427	No
41	GOM_TRA_1PNPDE20080930_034416_000000452072_00305_34427_3182.N1	30-SEP-2008 03:44:16	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	34427	No
42	GOM_TRA_1PNPDE20080930_035340_000000402072_00305_34427_3183.N1	30-SEP-2008 03:53:40	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	34427	No
43	GOM_TRA_1PNPDE20080930_035508_000000442072_00305_34427_3184.N1	30-SEP-2008 03:55:08	Dark	44.000	9	Alp Eri	0.45300	24000.	88	34427	No
44	GOM_TRA_1PNPDE20080930_040031_000000422072_00305_34427_3185.N1	30-SEP-2008 04:00:31	Straylight	42.000	84	Alp Phe	2.3970	4500.0	84	34427	No
45	GOM_TRA_1PNPDE20080930_040728_000000502072_00305_34427_3186.N1	30-SEP-2008 04:07:28	Straylight	50.000	52	16Bet Cet	2.0370	4500.0	100	34427	No
46	GOM_TRA_1PNPDE20080930_041739_000000372072_00305_34427_3187.N1	30-SEP-2008 04:17:39	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	34427	No
47	GOM_TRA_1PNPDE20080930_042118_000000372072_00305_34427_3188.N1	30-SEP-2008 04:21:18	Bright	36.500	93	53Bet Peg	2.5200	3100.0	73	34427	No
48	GOM_TRA_1PNPDE20080930_043045_000000382072_00305_34427_3189.N1	30-SEP-2008 04:30:45	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	34427	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).

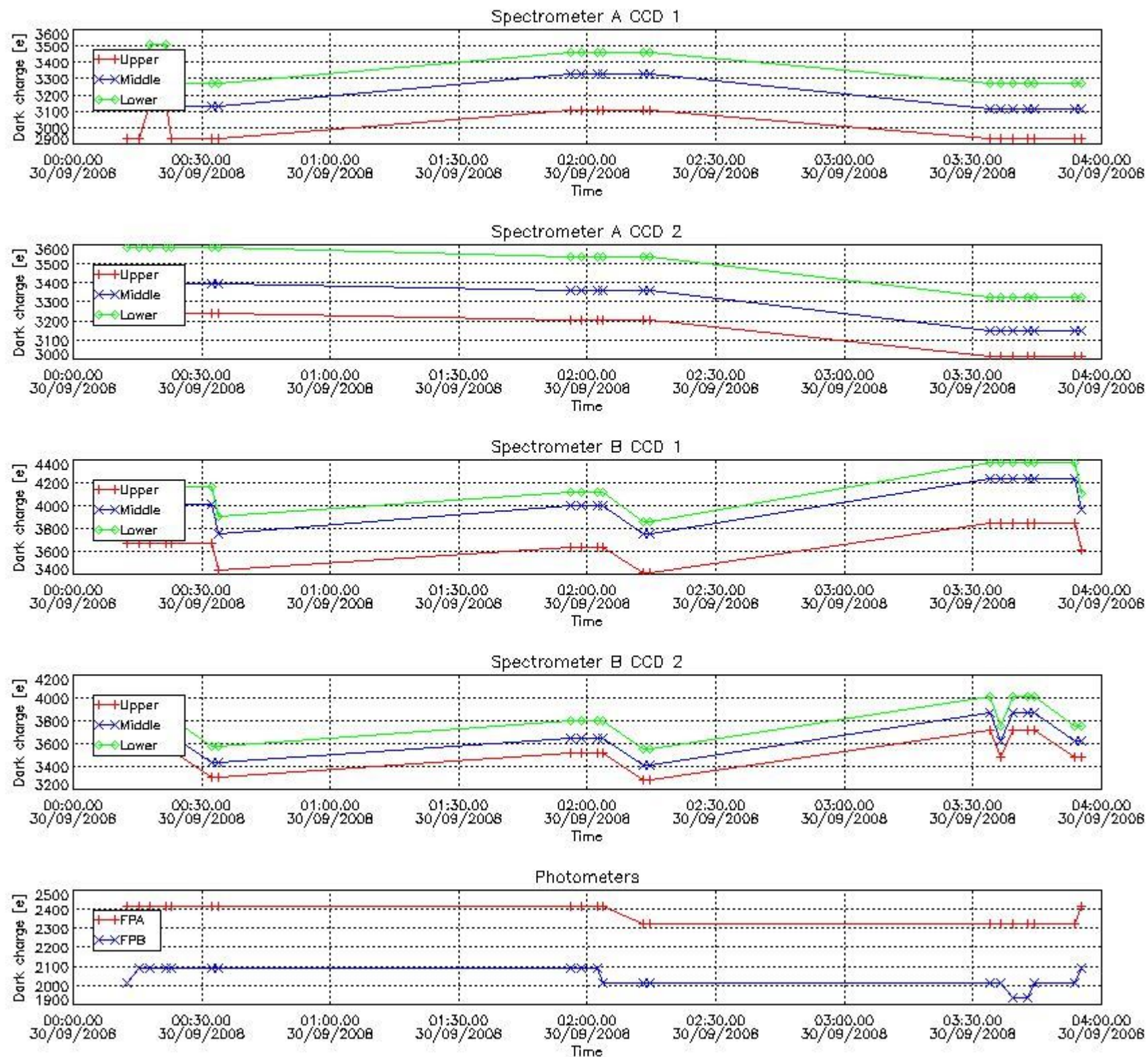
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20080930_030600_000000352072_00304_34426_3174.N1	DC map used
GOM_TRA_1PNPDE20080930_030730_000000472072_00304_34426_3175.N1	DC map used
GOM_TRA_1PNPDE20080930_031722_000000352072_00304_34426_3176.N1	DC map used
GOM_TRA_1PNPDE20080930_032654_000000392072_00304_34426_3177.N1	DC map used
GOM_TRA_1PNPDE20080930_033355_000000462072_00304_34426_3178.N1	DC map used
GOM_TRA_1PNPDE20080930_033634_000000422072_00304_34426_3179.N1	DC map used
GOM_TRA_1PNPDE20080930_033908_000000412072_00304_34426_3180.N1	DC map used
GOM_TRA_1PNPDE20080930_034252_000000432072_00305_34427_3181.N1	DC map used
GOM_TRA_1PNPDE20080930_034416_000000452072_00305_34427_3182.N1	DC map used
GOM_TRA_1PNPDE20080930_035340_000000402072_00305_34427_3183.N1	DC map used
GOM_TRA_1PNPDE20080930_035508_000000442072_00305_34427_3184.N1	DC map used
GOM_TRA_1PNPDE20080930_040031_000000422072_00305_34427_3185.N1	DC map used
GOM_TRA_1PNPDE20080930_040728_000000502072_00305_34427_3186.N1	DC map used
GOM_TRA_1PNPDE20080930_041739_000000372072_00305_34427_3187.N1	DC map used

GOM_TRA_1PNPDE20080930_042118_000000372072_00305_34427_3188.N1	DC map used
GOM_TRA_1PNPDE20080930_043045_000000382072_00305_34427_3189.N1	DC map used

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



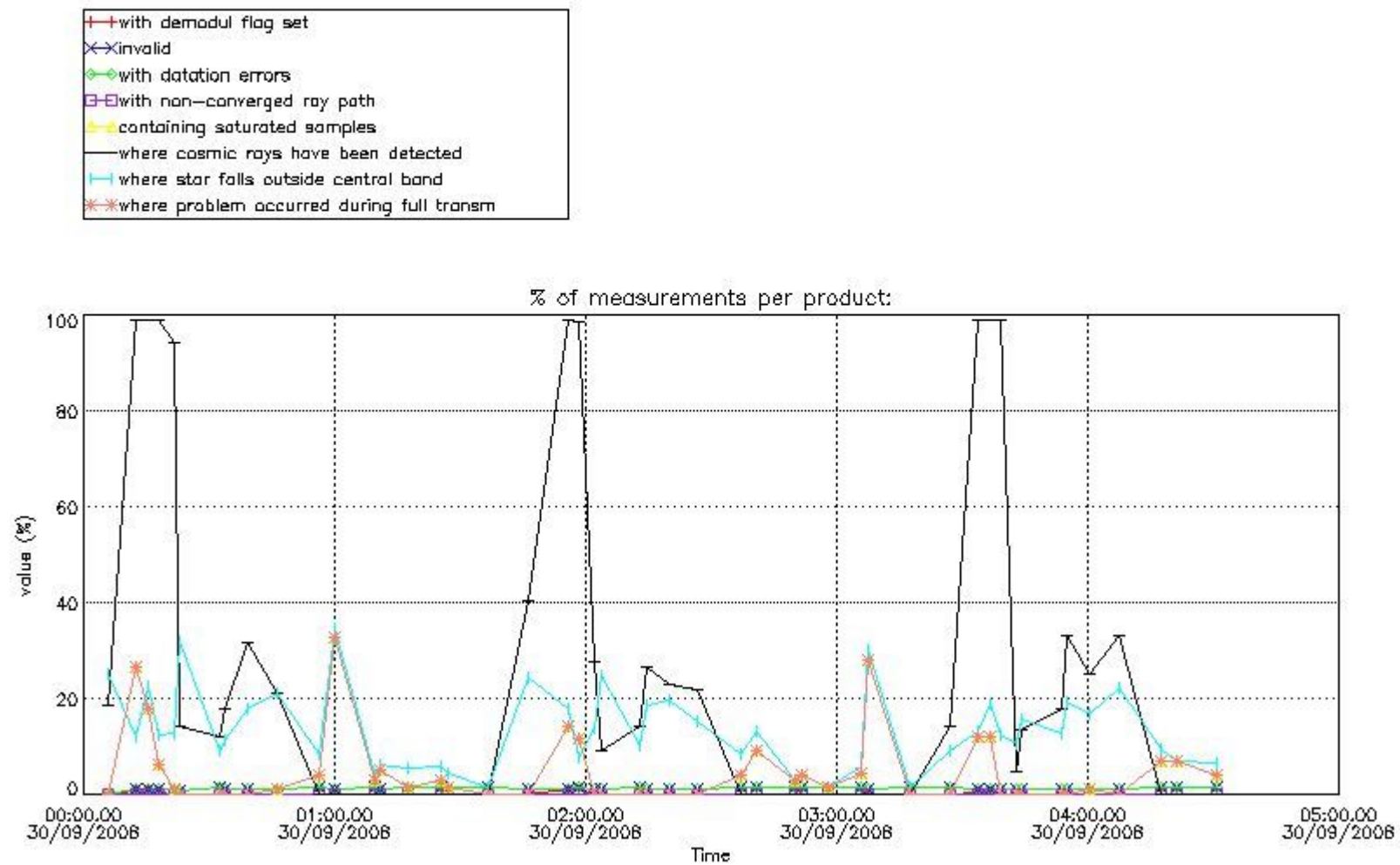
5. Demodulation flag and quality information monitoring

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.

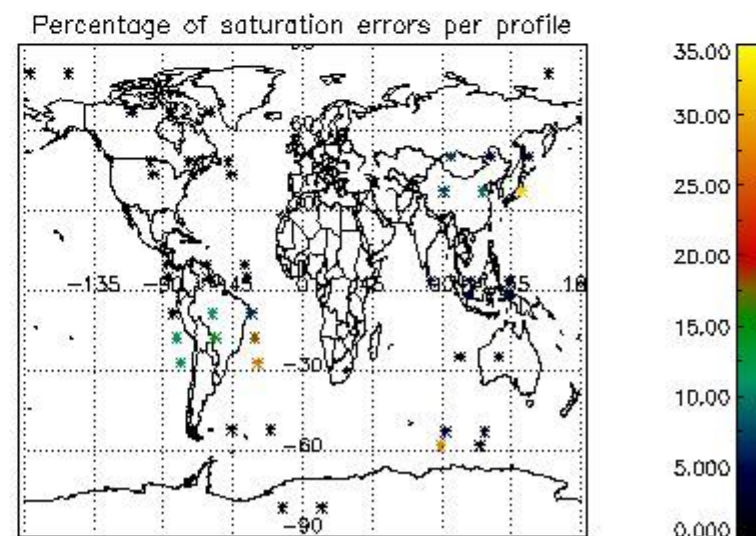
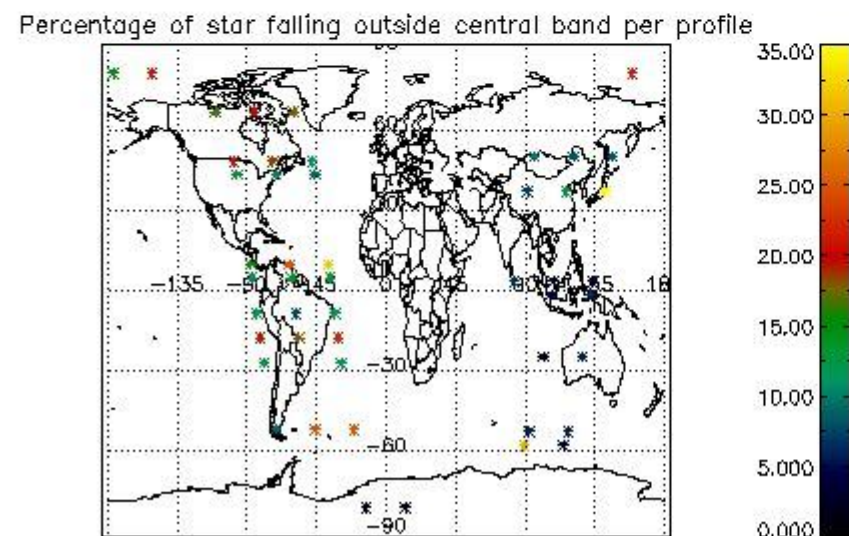
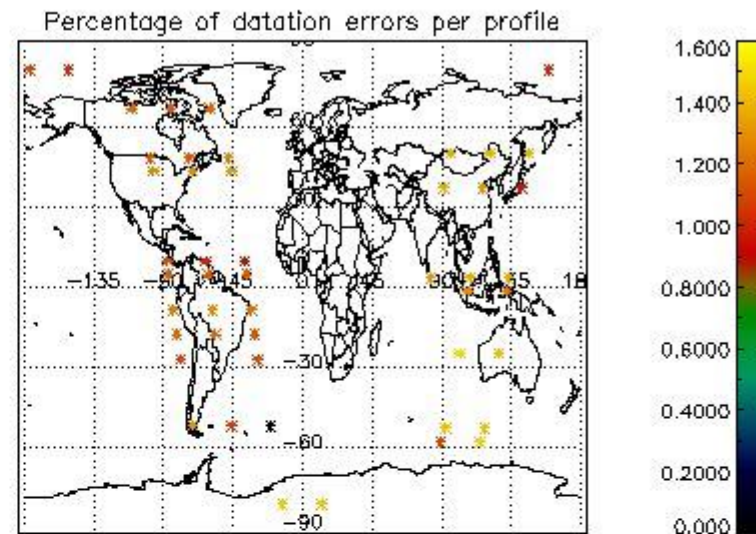
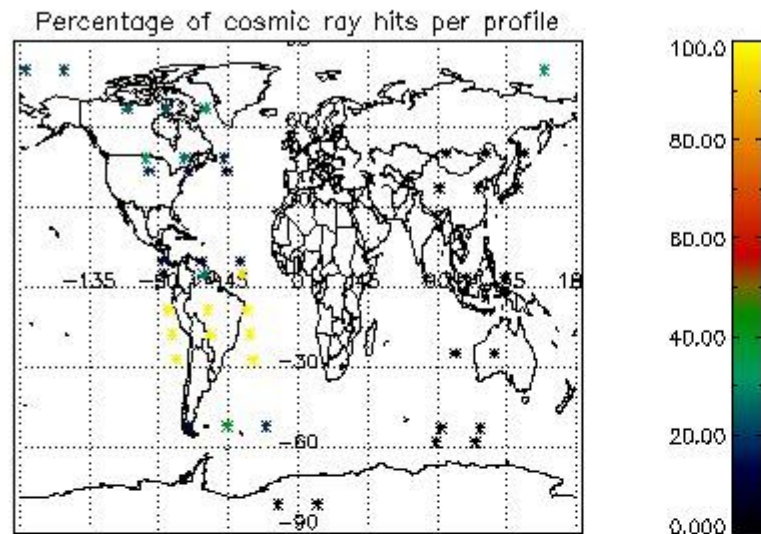
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	39.5833 %
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)



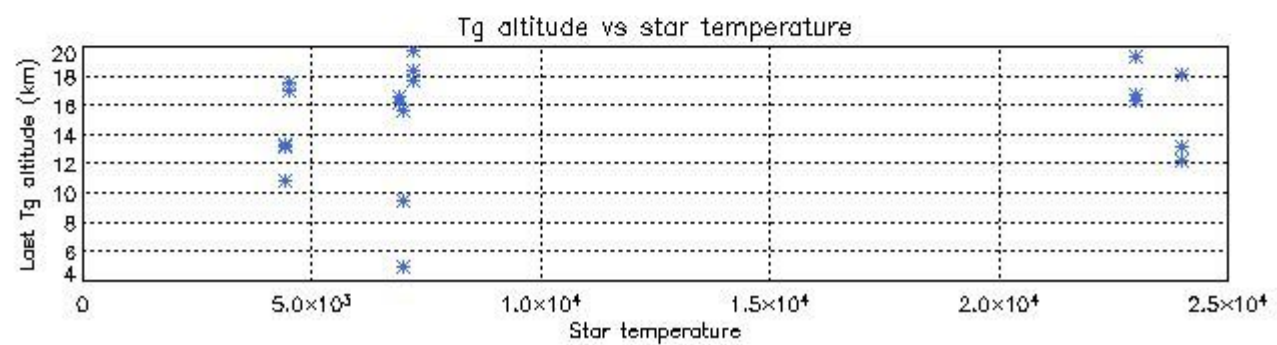
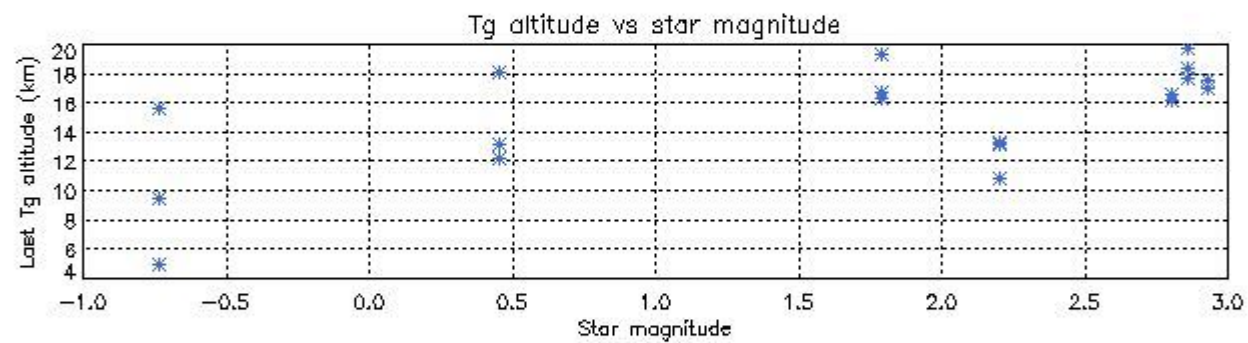
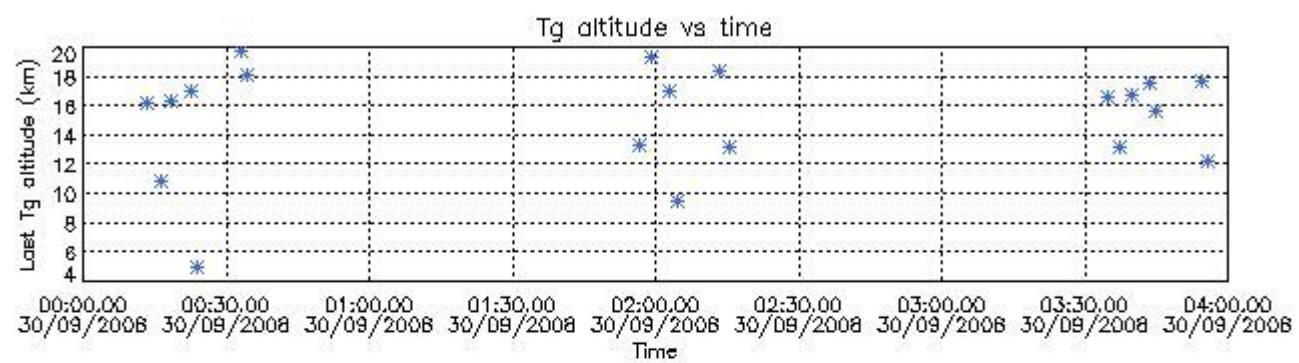
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.153	20.348	12.337
St. deviation:	3.6929	5.6528	4.9500
Maximum:	19.692	26.375	18.050
Minimum:	4.9132	4.0868	9.3092
Number of data:	20.000	19.000	3.0000

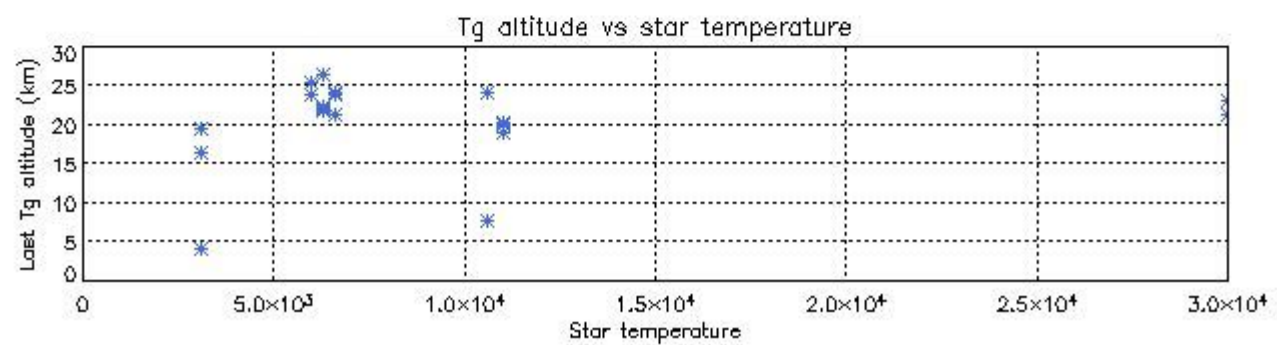
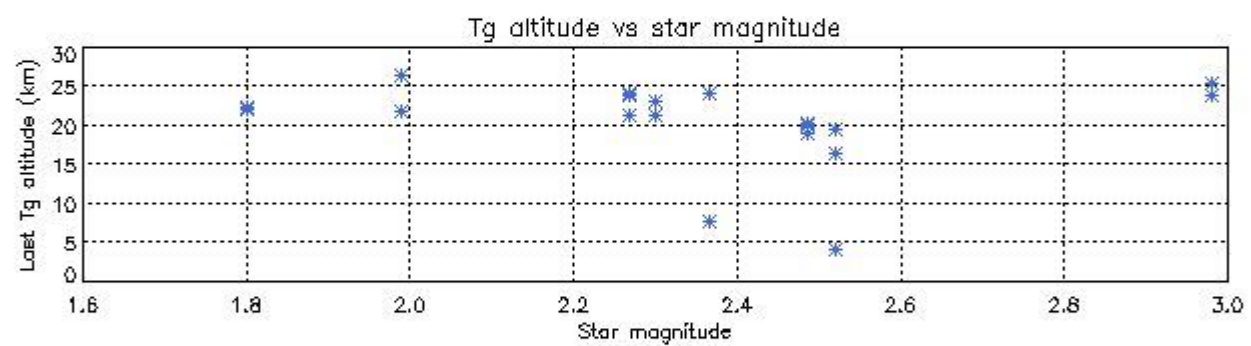
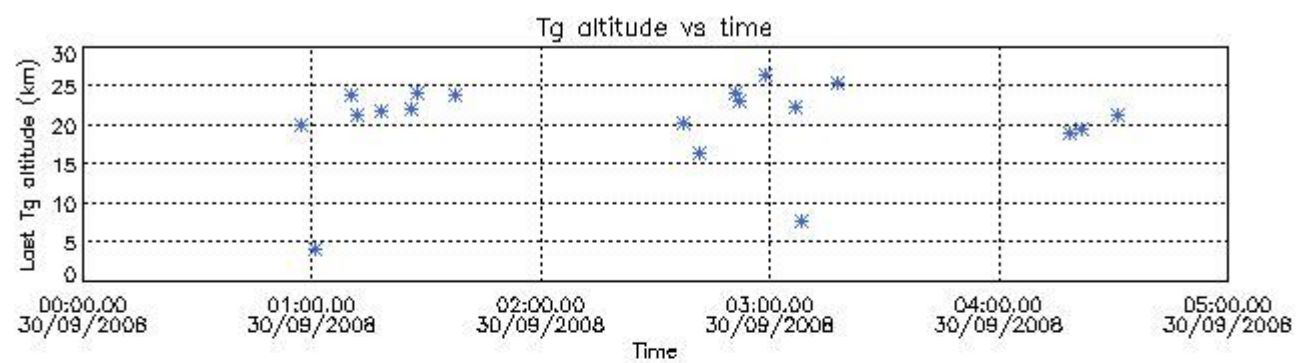
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



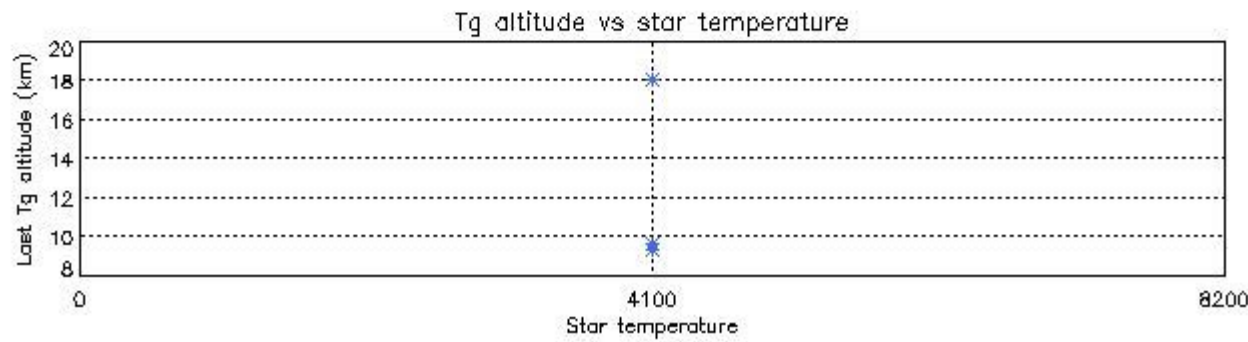
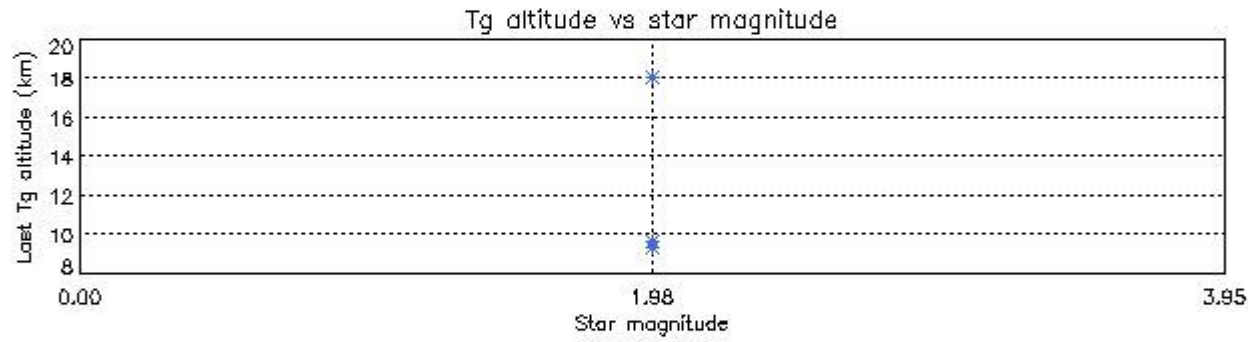
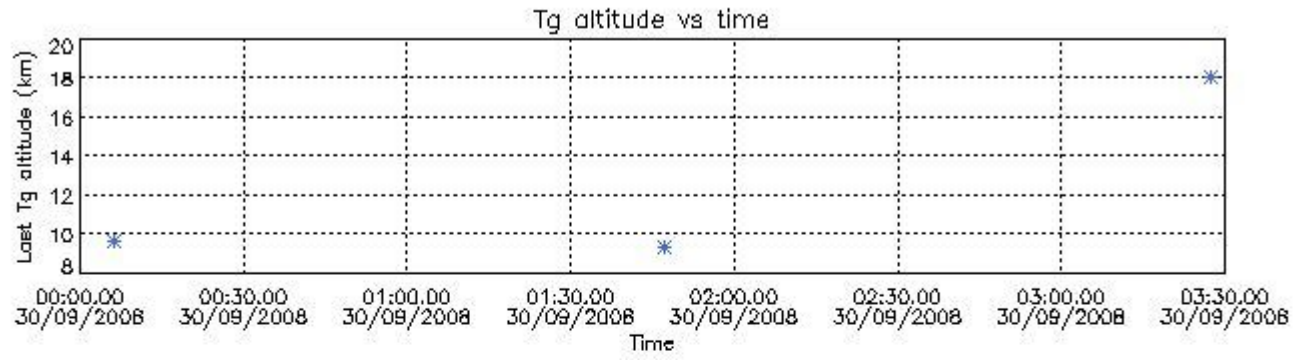
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

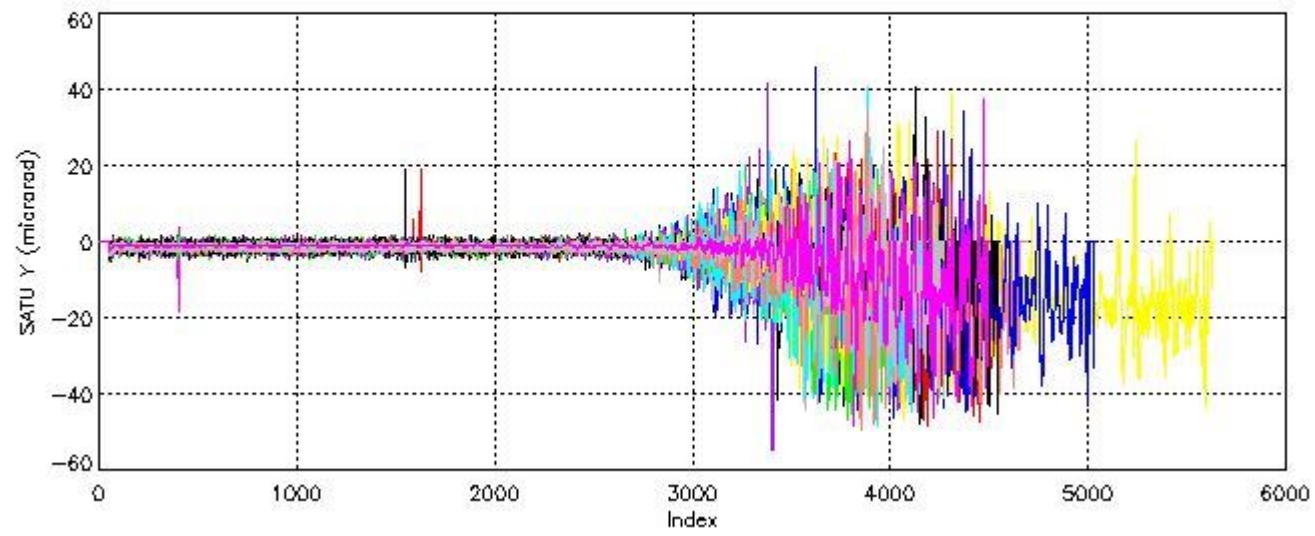
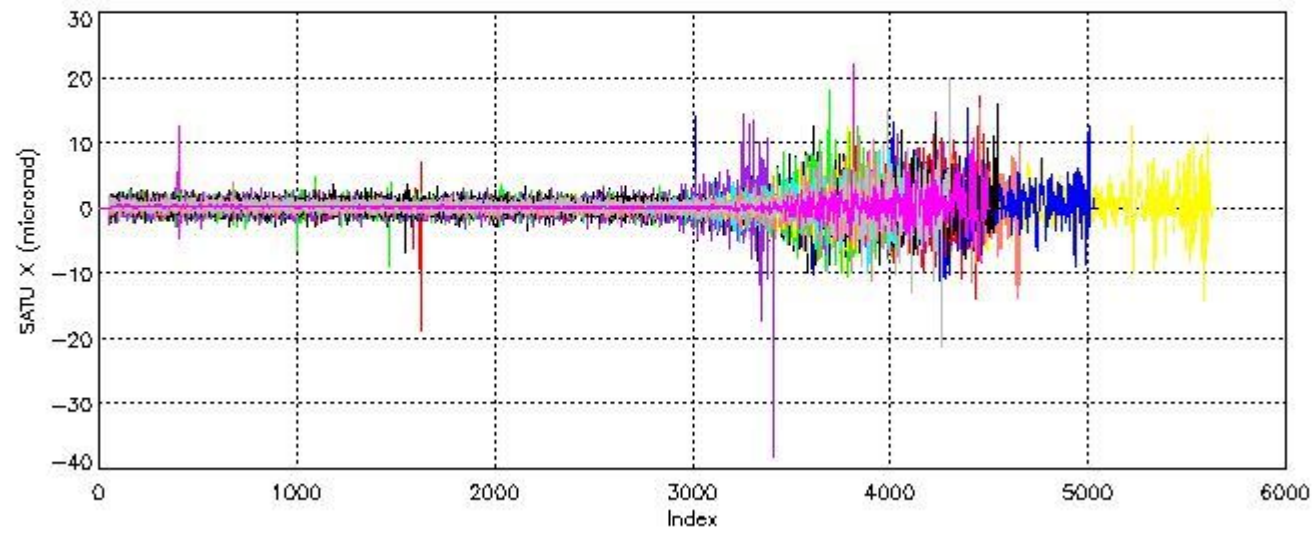


7. Star Acquisition and Tracking Unit (SATU)

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:	0.16230	-1.3675	0.098647	-1.4069
St. deviation:	0.47077	0.69156	0.68969	0.86122
Maximum:	12.400	3.8000	3.8000	2.7000
Minimum:	-4.7000	-18.600	-4.3000	-6.0000

Number of data:	18600.	18600.	15900.	15900.
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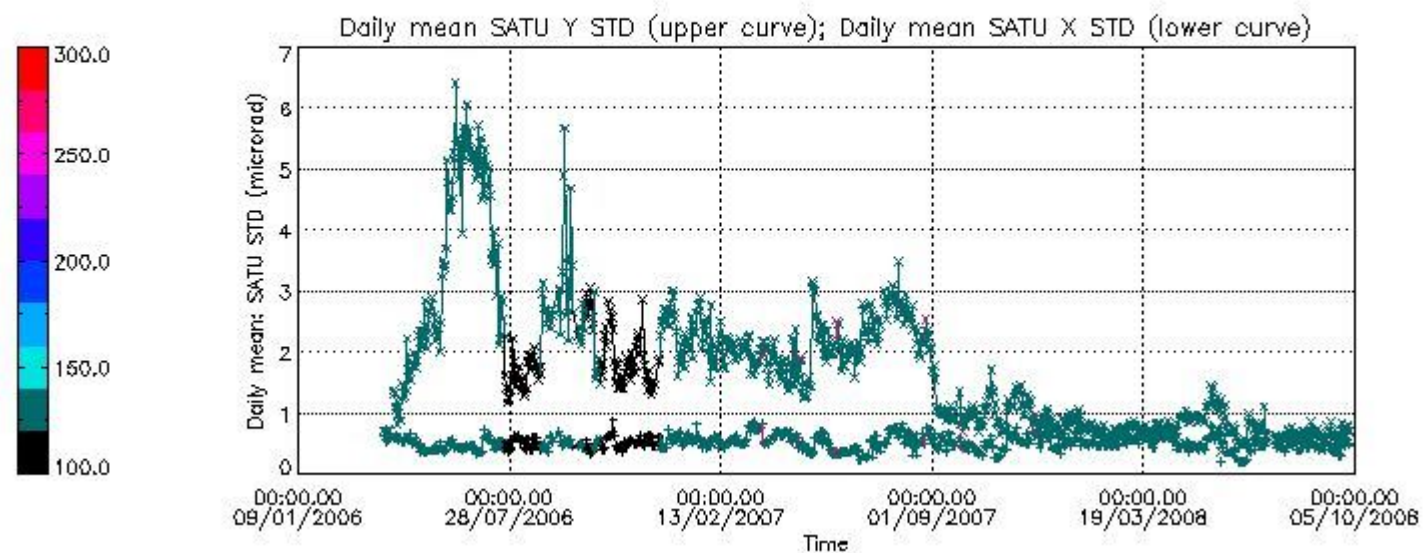
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

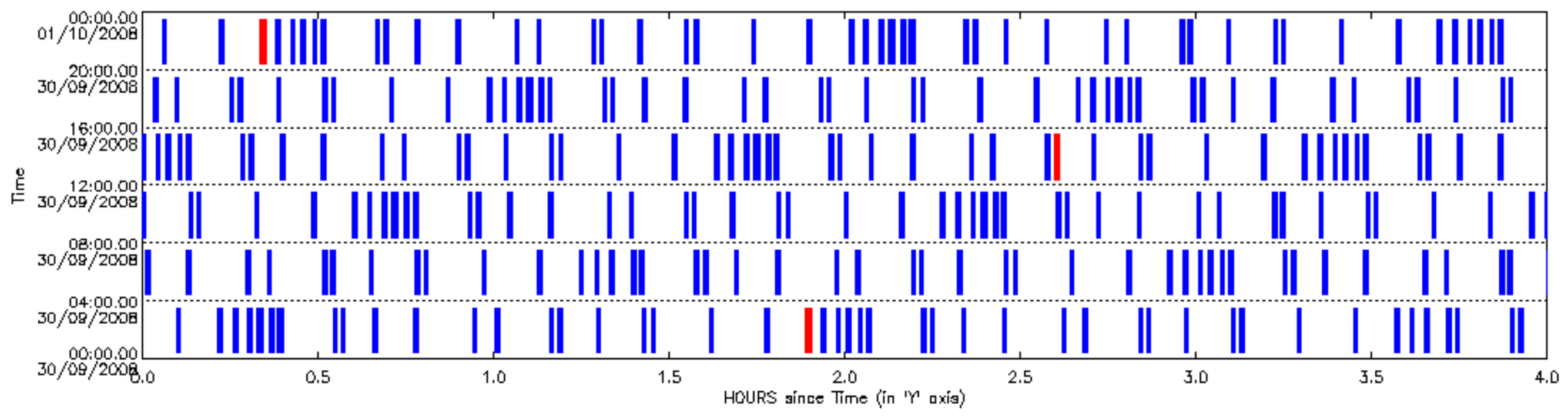
Lower curve: STD of SATU X axis

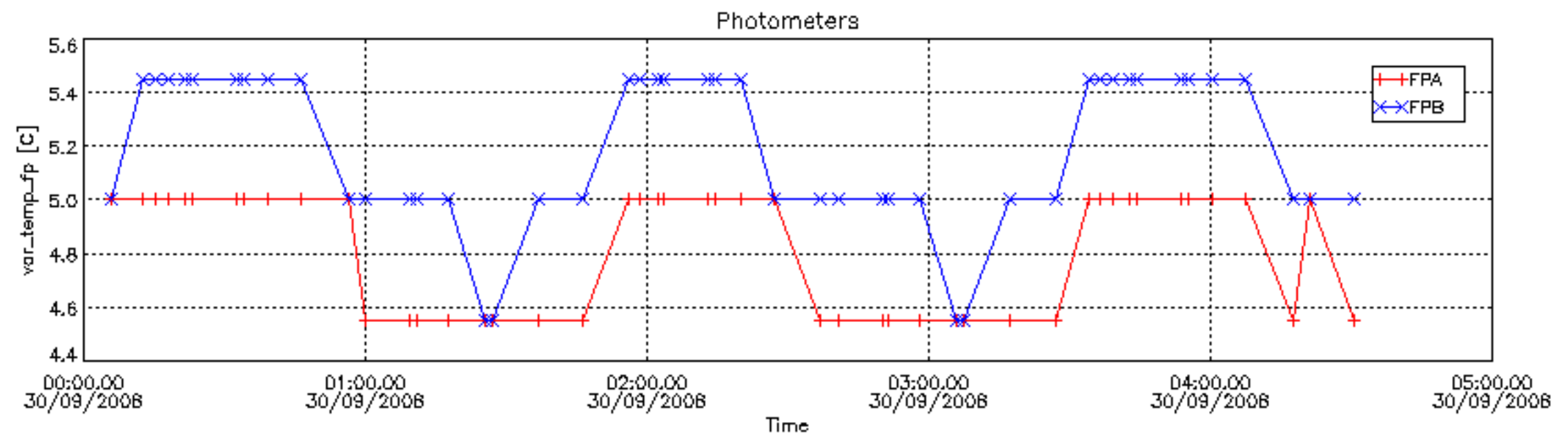
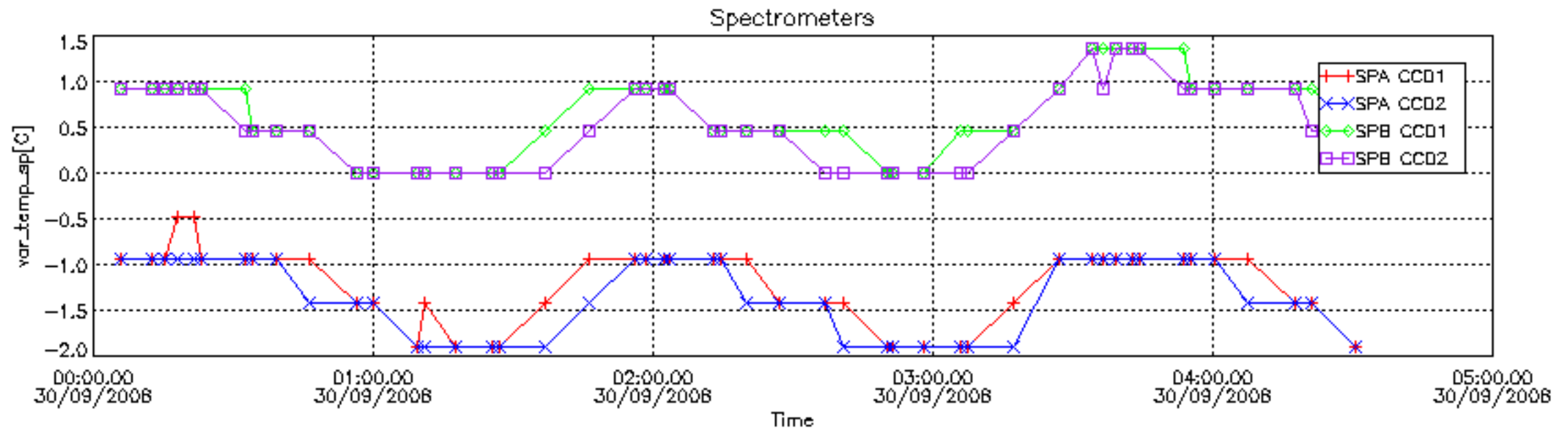


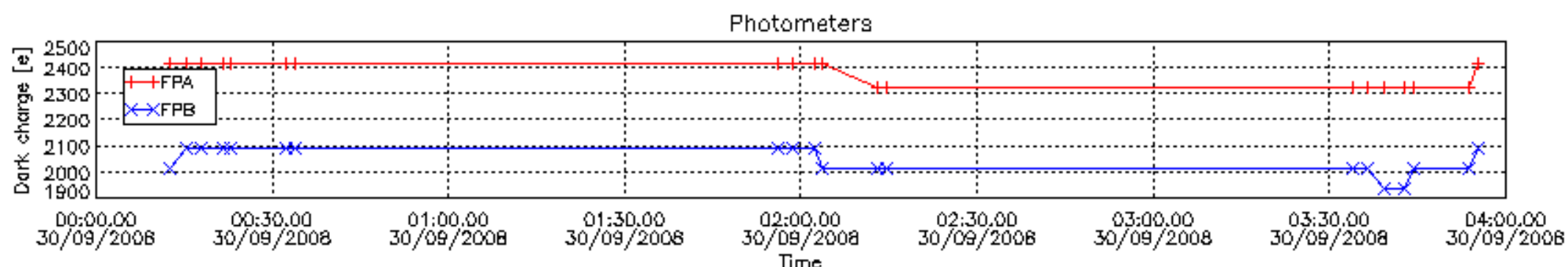
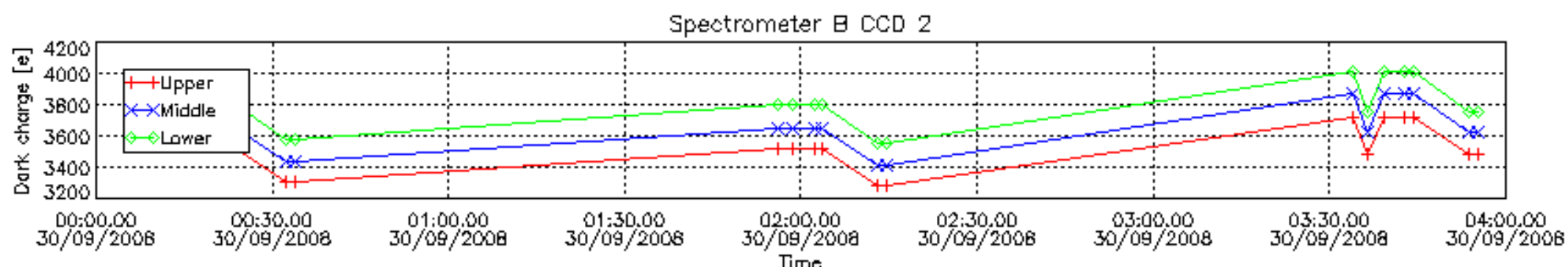
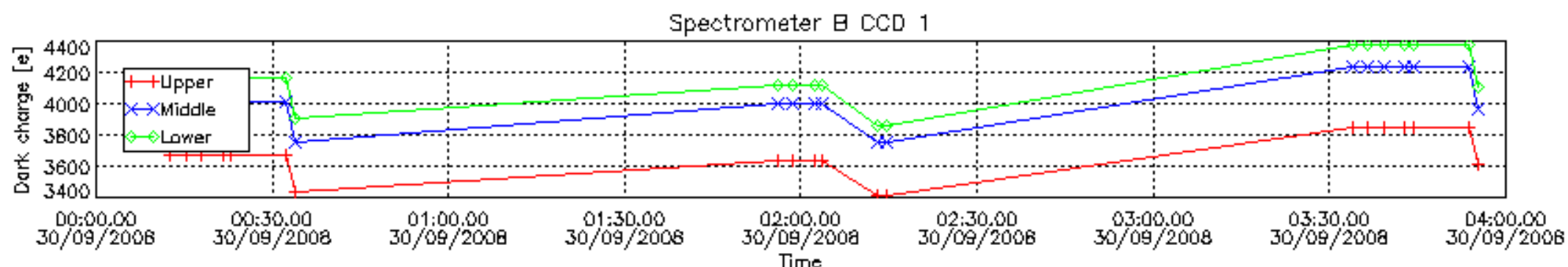
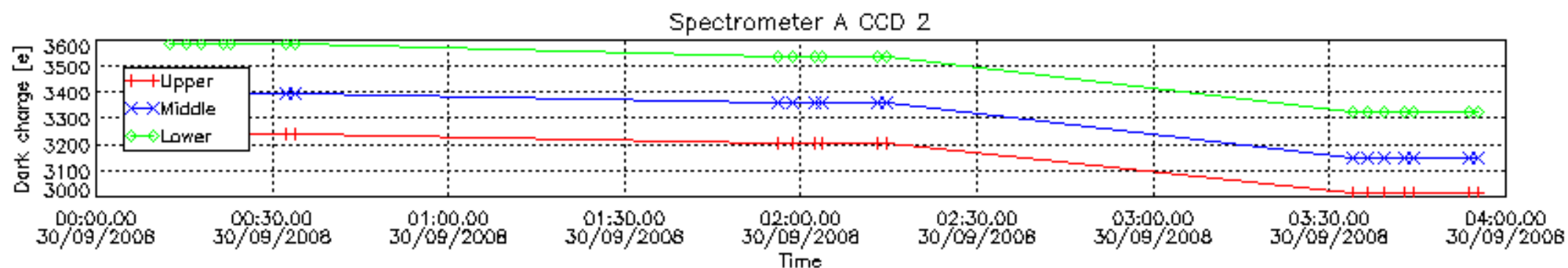
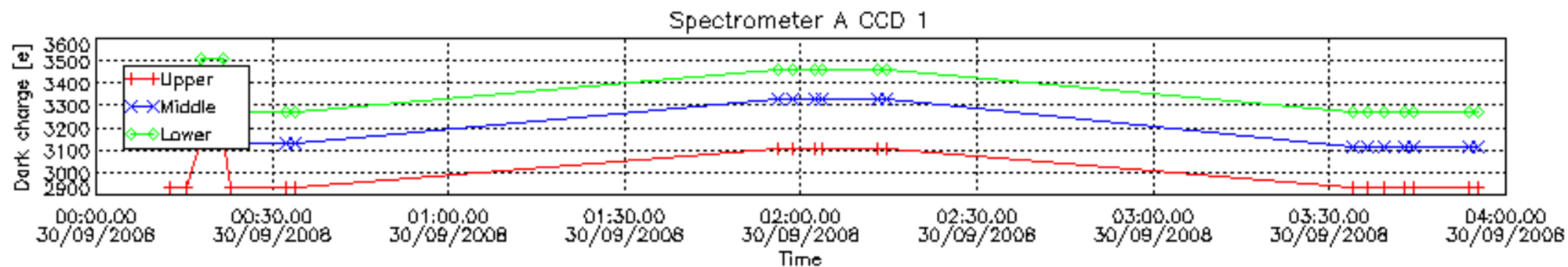
8. Auxiliary Data Files used for the production reported in section 2.4

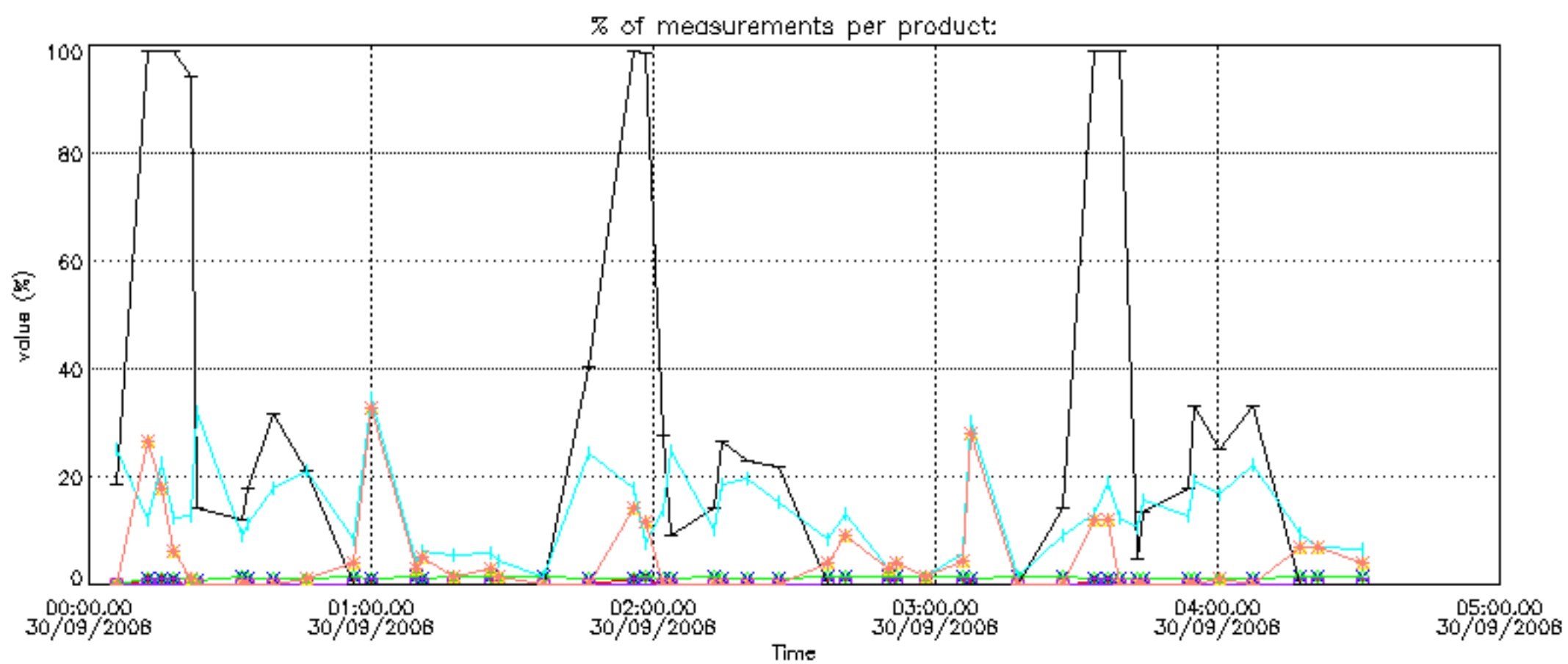
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	30-SEP-2008 00:05:41
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080929_142519_20080927_000000_20100101_000000	1	30-SEP-2008 00:05:41
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	30-SEP-2008 00:05:41
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	30-SEP-2008 00:05:41
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	30-SEP-2008 00:05:41
ECMWF_FILE	AUX_ECF_AXNECM20080929_072112_20080929_210000_20080930_090000	1	30-SEP-2008 00:05:41
ECMWF_FILE	AUX_ECF_AXNECM20080929_190113_20080930_030000_20080930_150000	33	30-SEP-2008 03:06:00
OPTIONAL_ECMWF_FILE	MISSING	1	30-SEP-2008 00:05:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080929_203840_000060572072_00300_34422_6459.N1	1	30-SEP-2008 00:05:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080929_222456_000057382072_00301_34423_6460.N1	2	30-SEP-2008 00:12:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080930_000553_000054192072_00302_34424_6461.N1	19	30-SEP-2008 01:46:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080930_014131_000044632072_00303_34425_6462.N1	33	30-SEP-2008 03:06:00

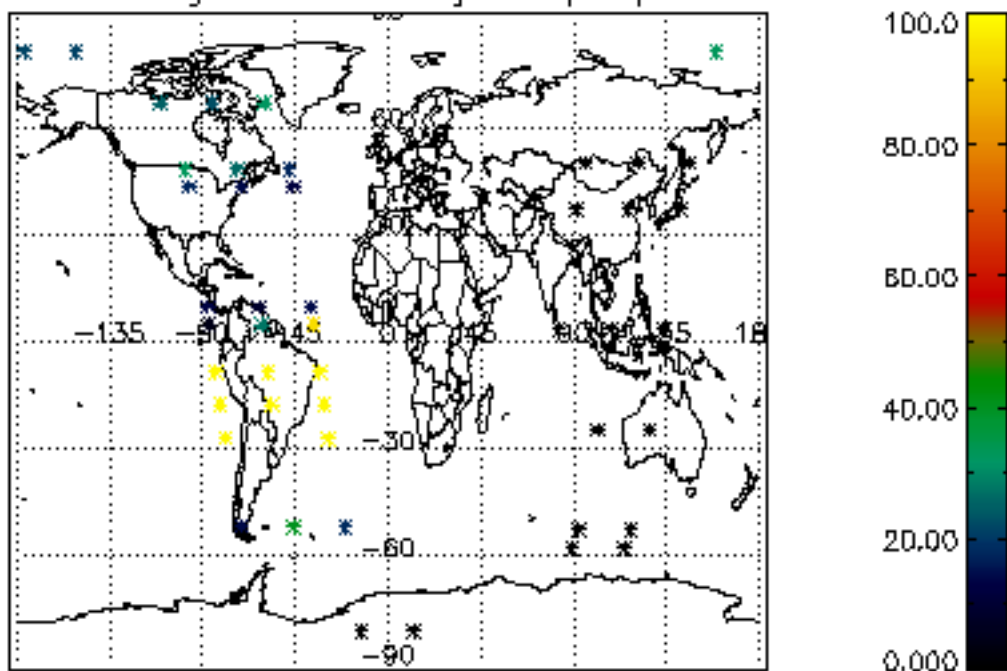




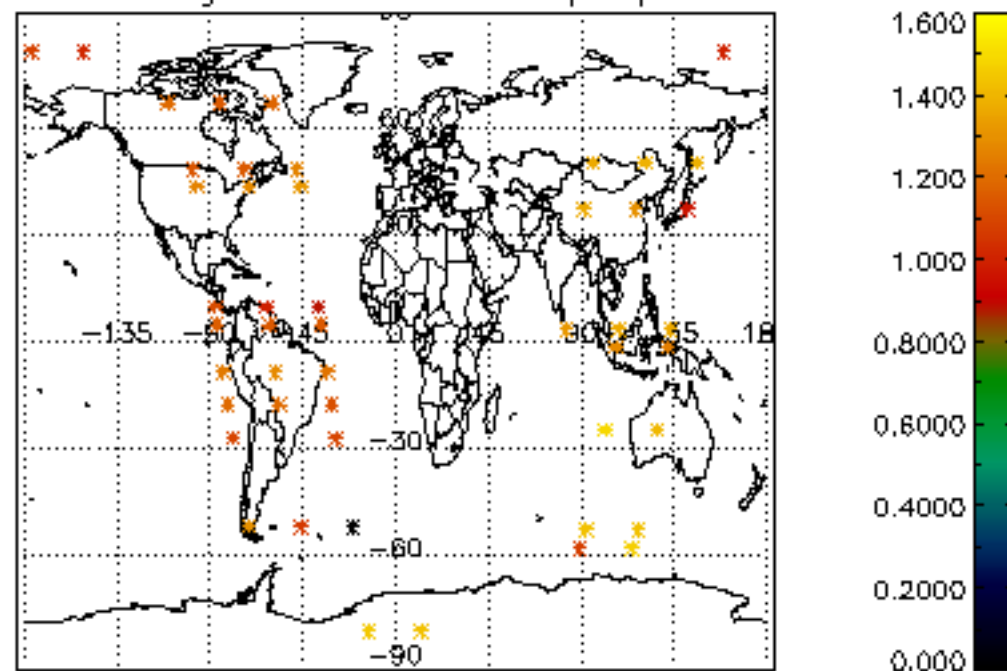




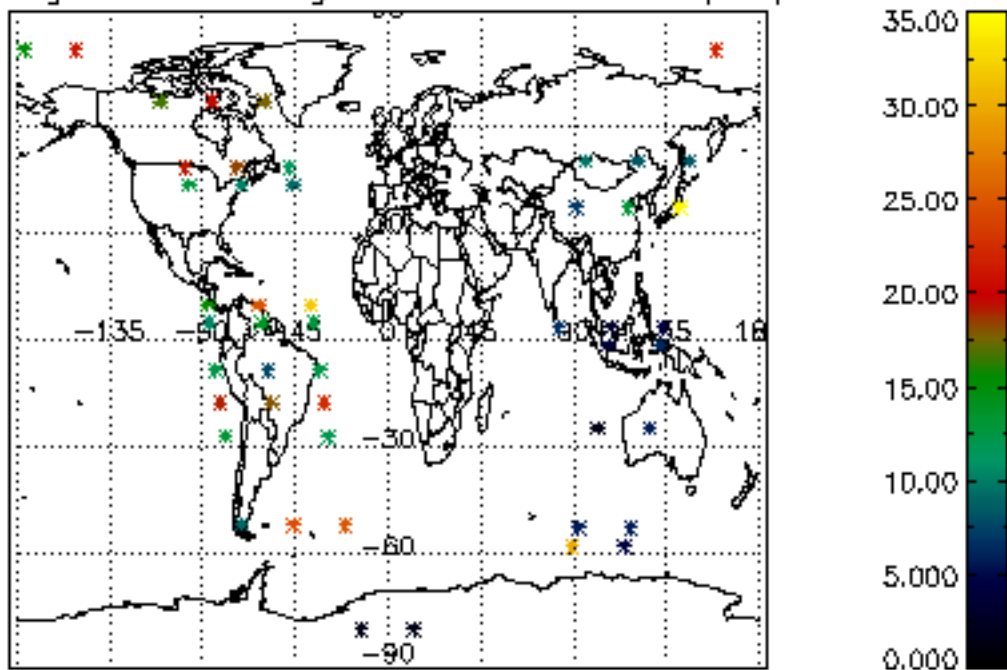
Percentage of cosmic ray hits per profile



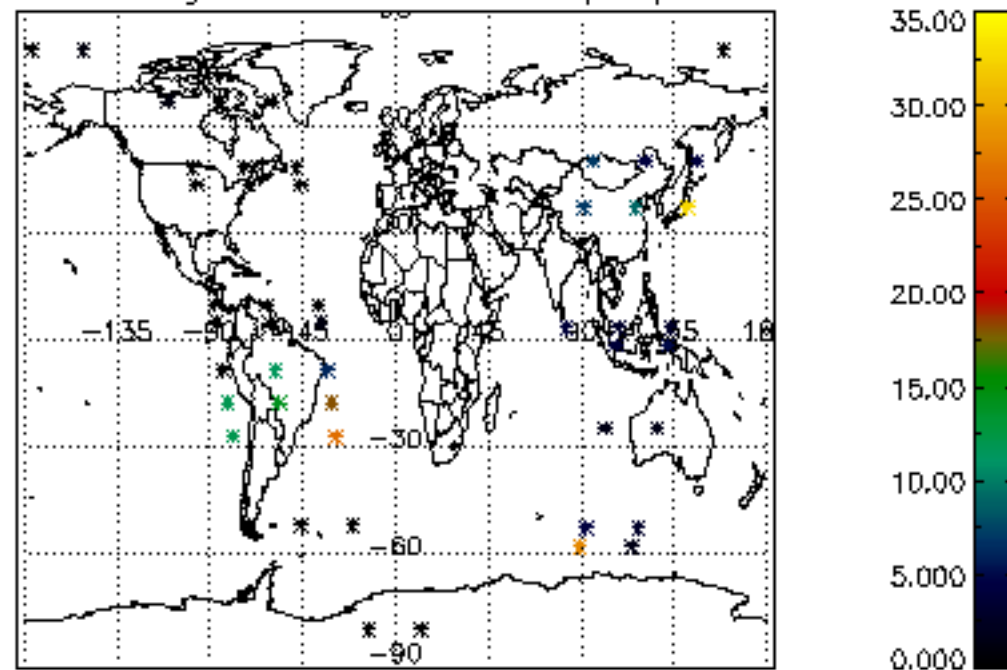
Percentage of datation errors per profile



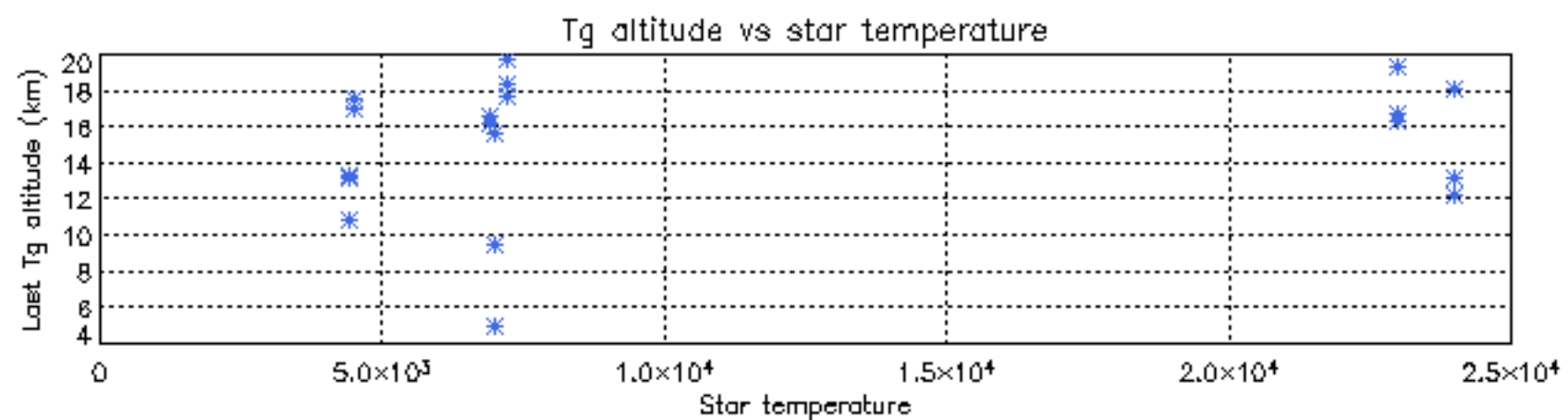
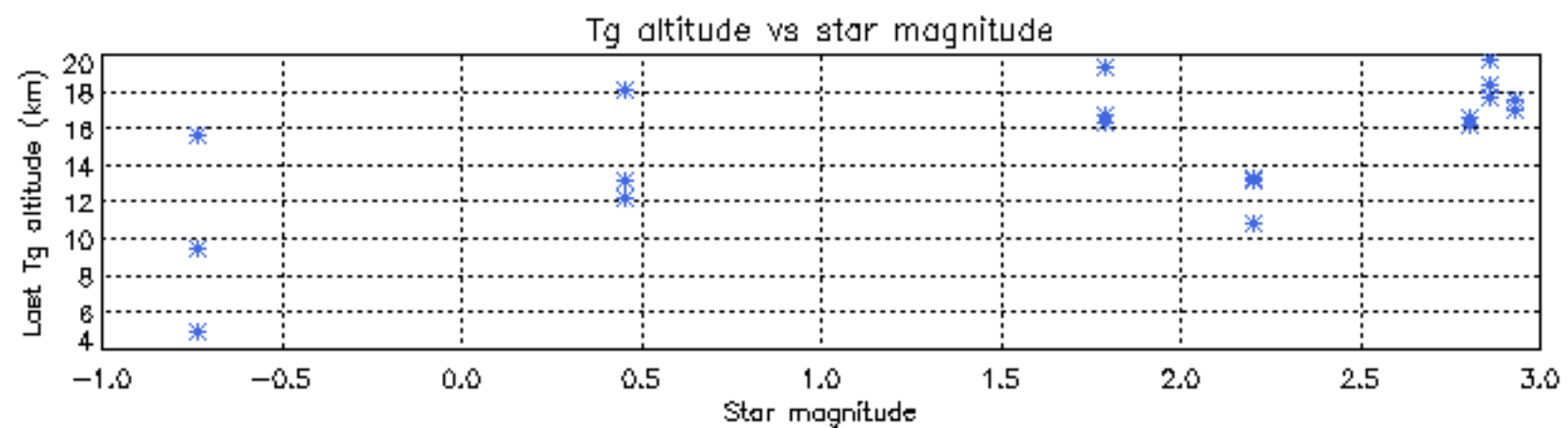
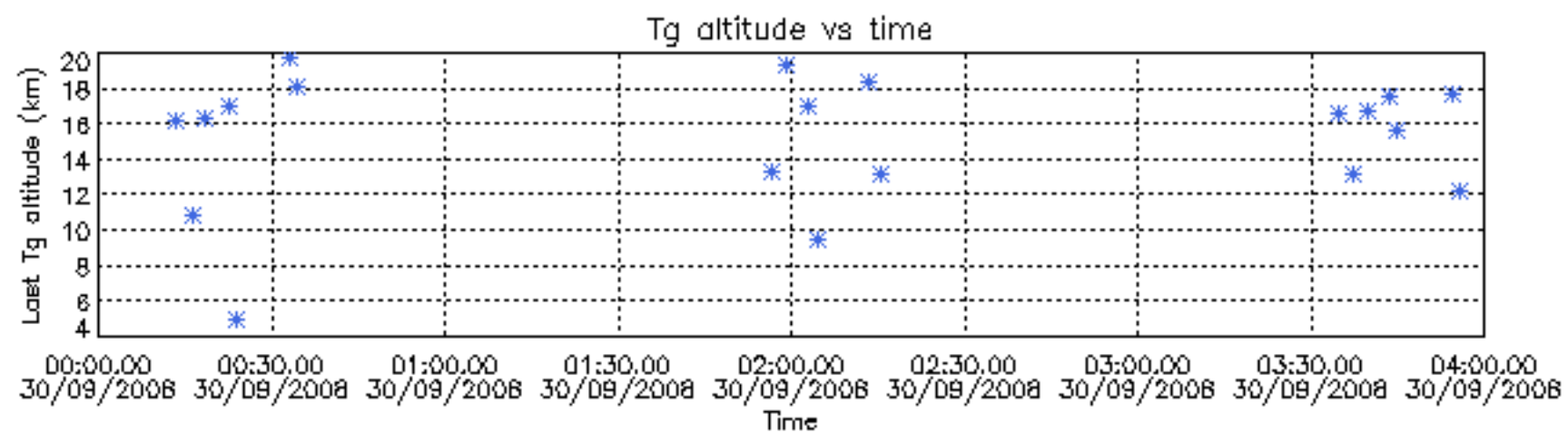
Percentage of star falling outside central band per profile



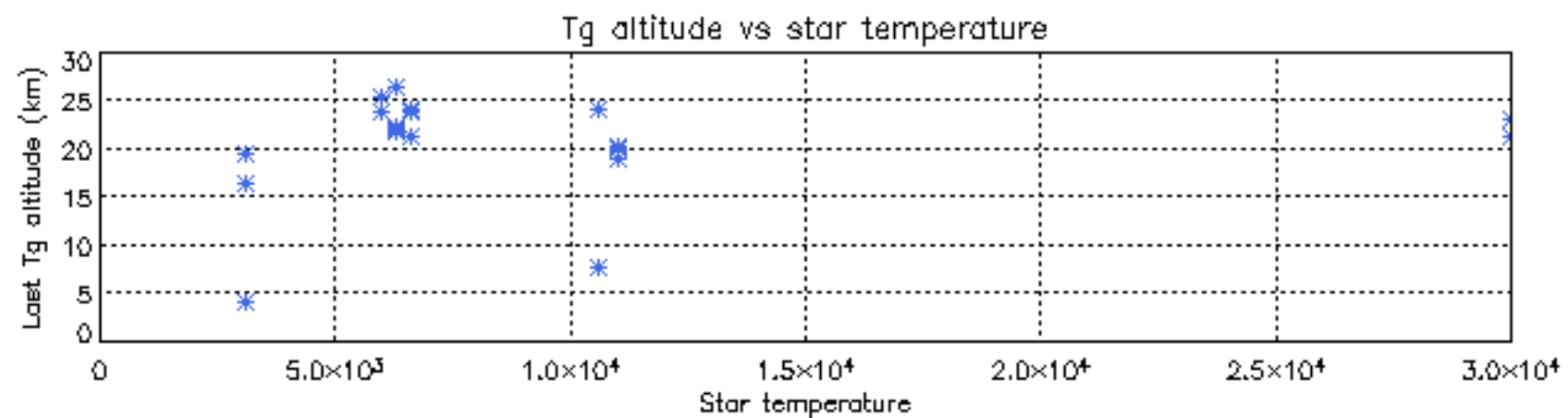
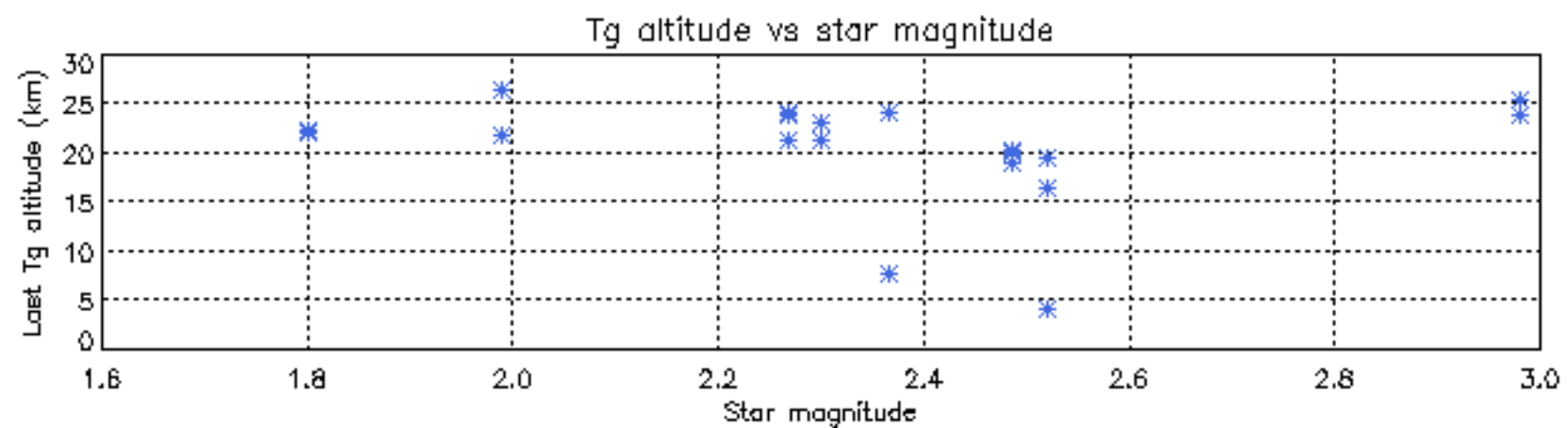
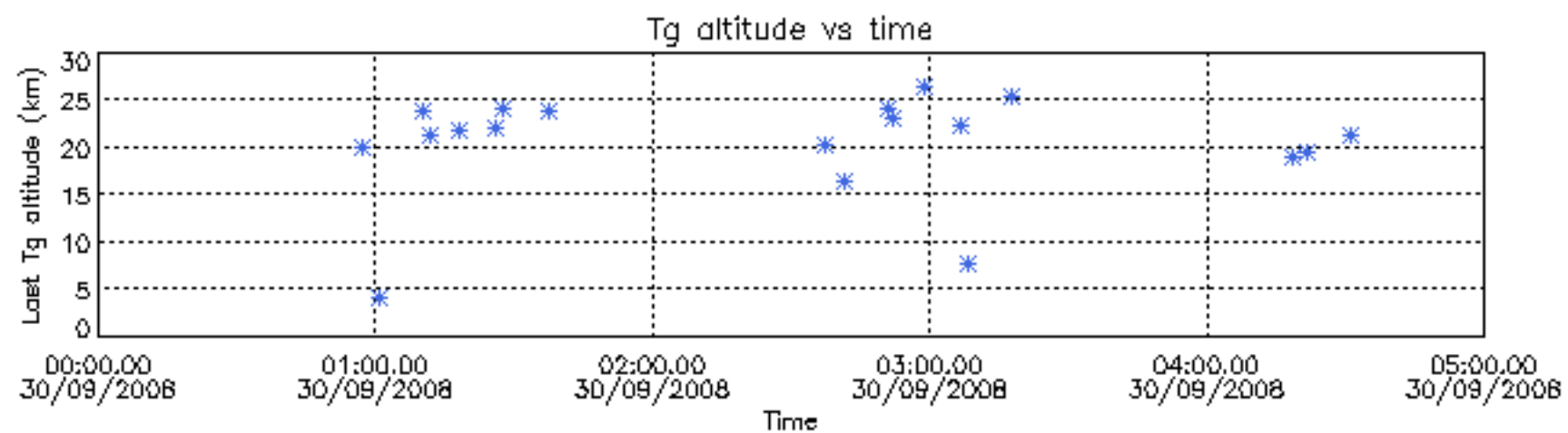
Percentage of saturation errors per profile



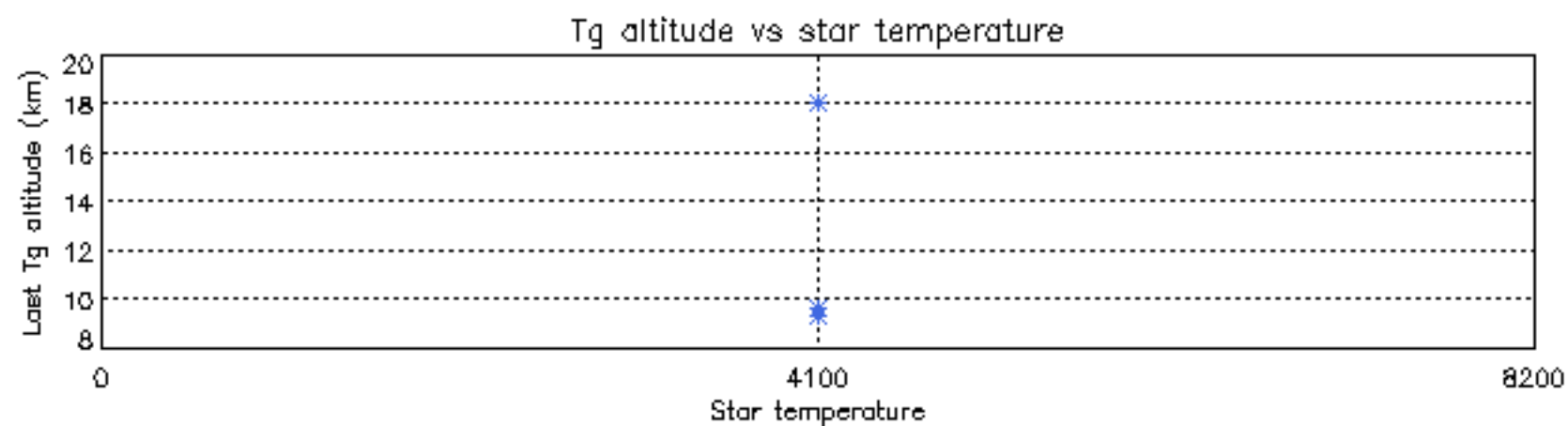
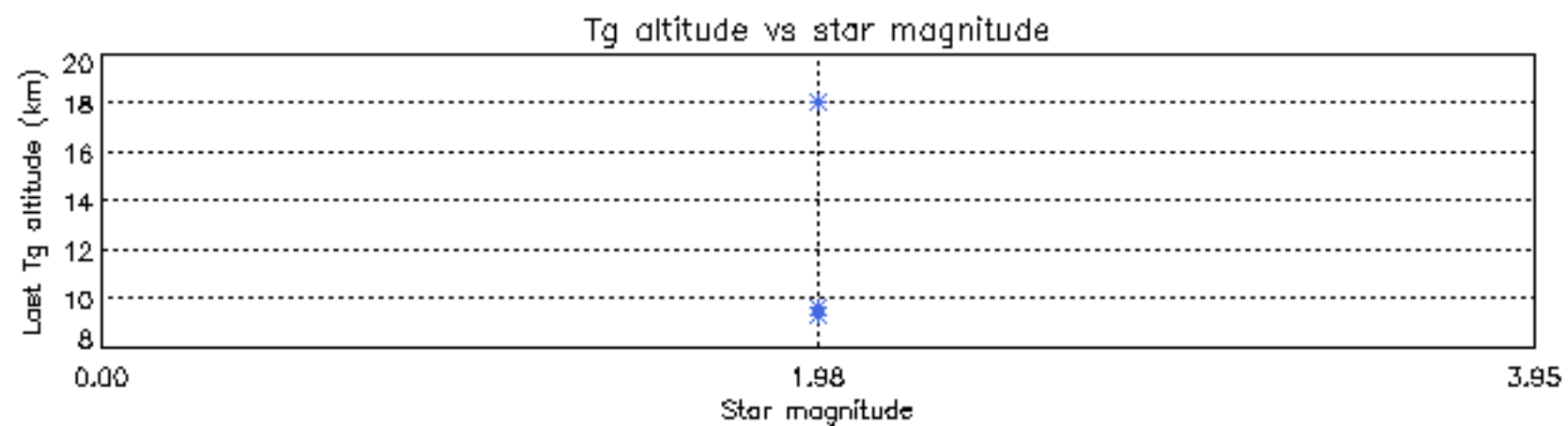
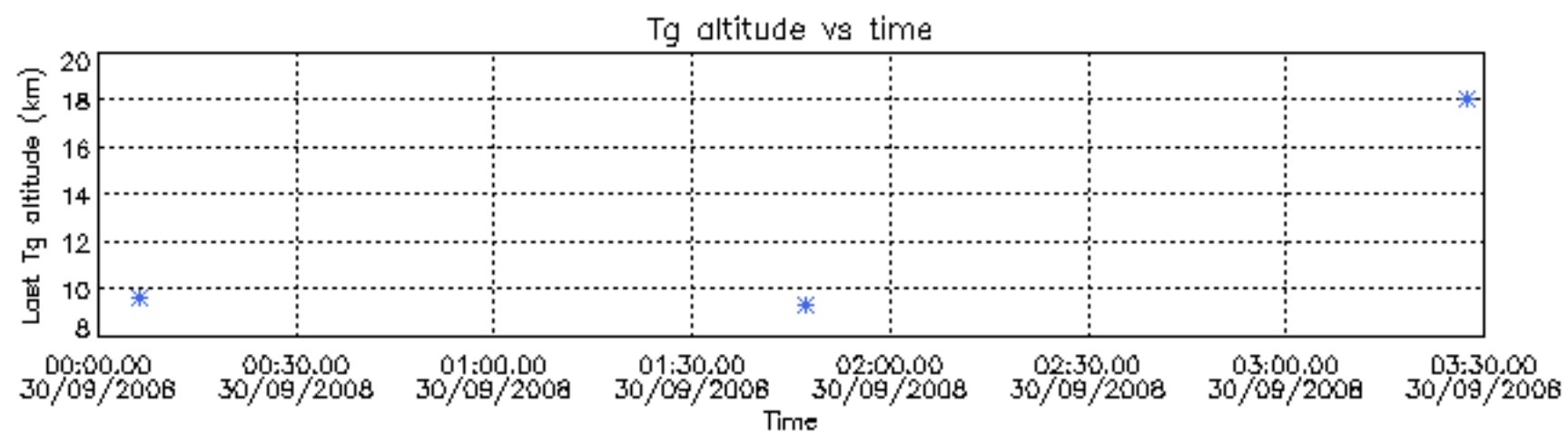
Tangent altitude at which the star is lost

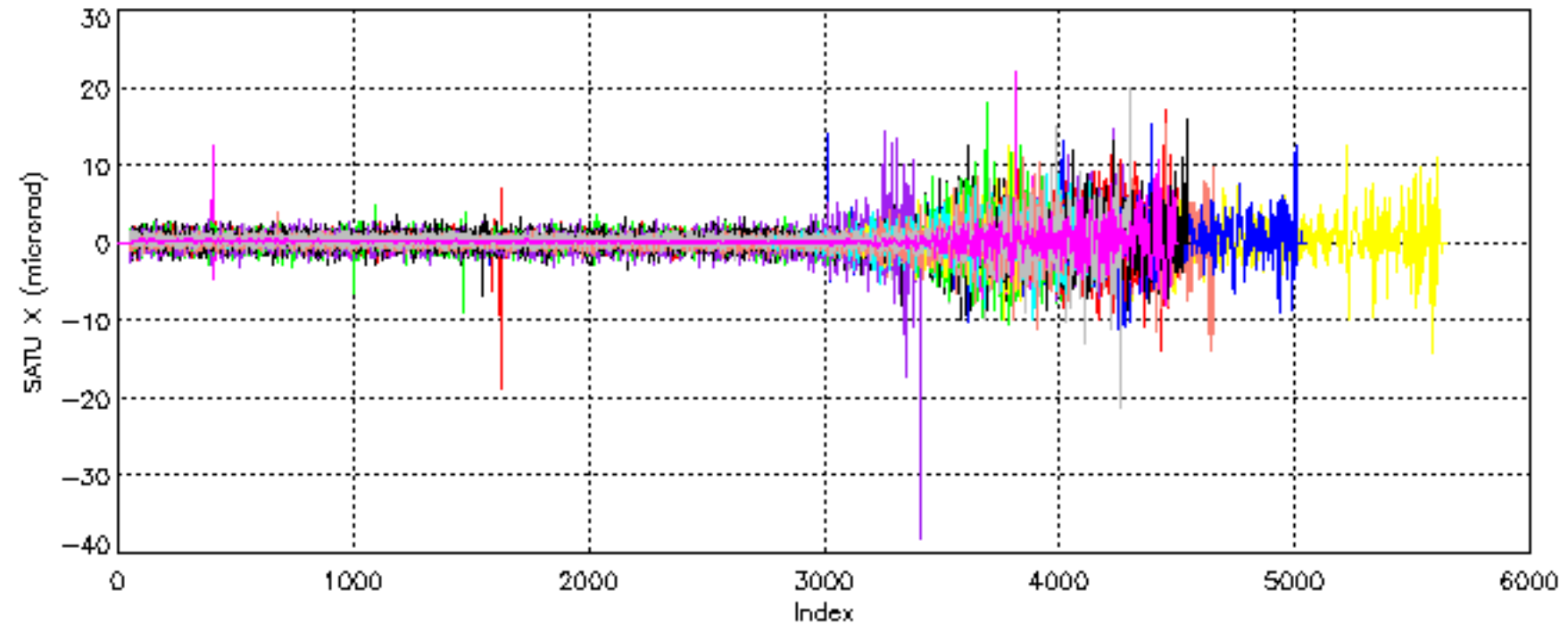


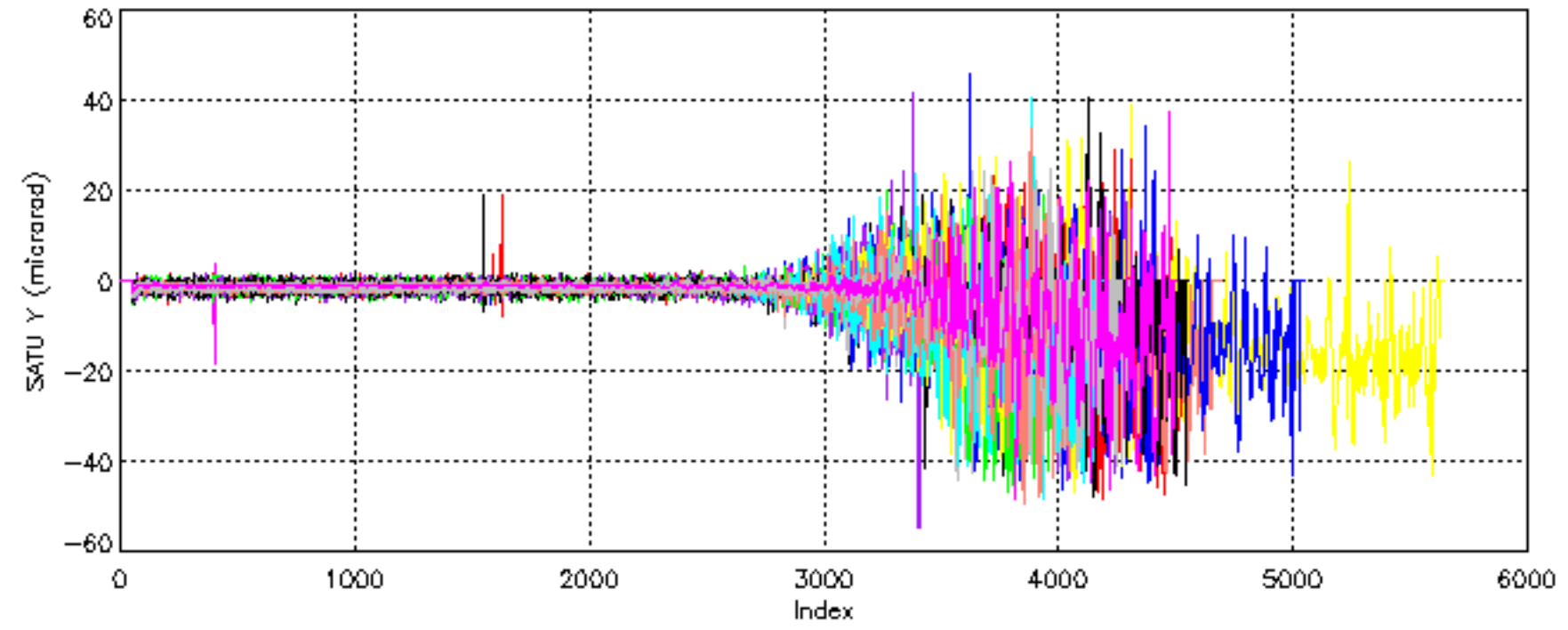
Tangent altitude at which the star is lost

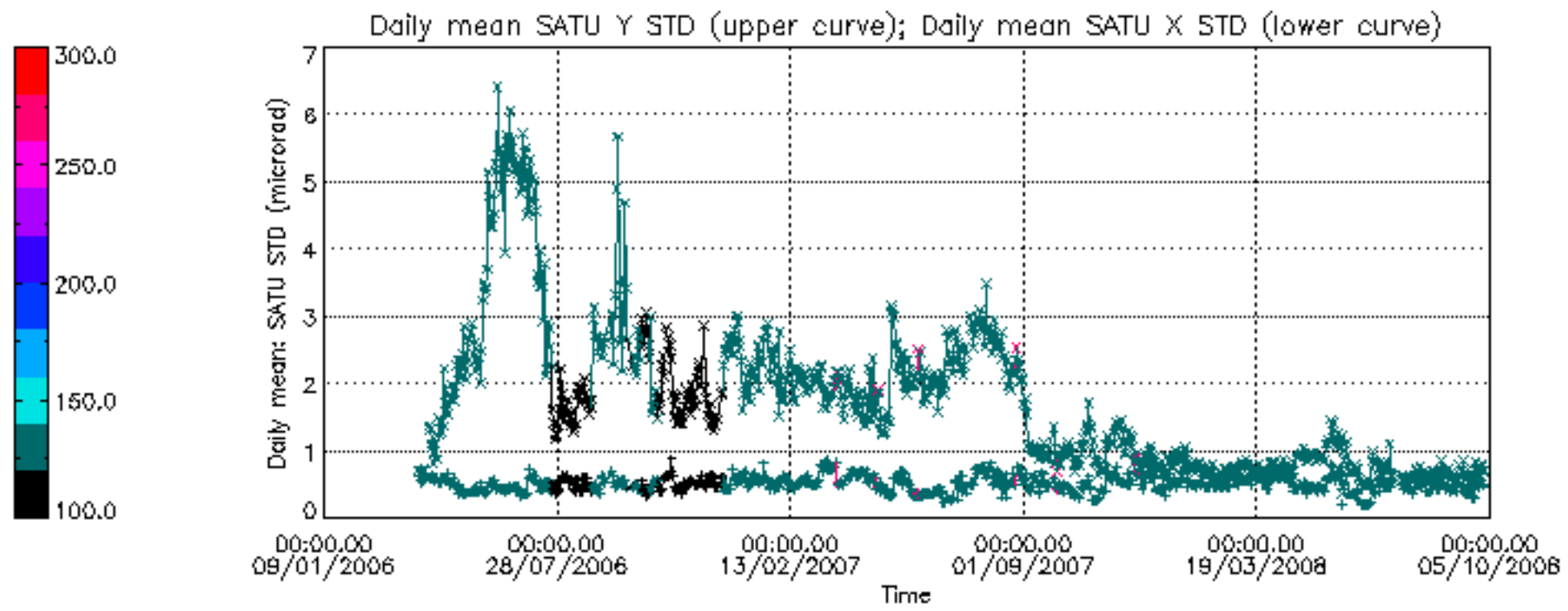


Tangent altitude at which the star is lost









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1; -659.4; 01-SEP-2008 00:20:49; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;34009
 2; -494.2; 01-SEP-2008 00:23:34; Dark ; 41.5; 23; 21Eps CMA ; 1.50; 26000;occ; 83; 0;34009
 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
 6; 529.6; 01-SEP-2008 00:40:38; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;34010
 7; 606.7; 01-SEP-2008 00:41:55; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;34010
 8; 964.3; 01-SEP-2008 00:47:53; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;34010
 9; 1085.7; 01-SEP-2008 00:49:54; Dark ; 39.5; 31; Alp Gru ; 1.73; 15200;occ; 79; 0;34010
 10; 1330.7; 01-SEP-2008 00:53:59; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;34010
 11; 1620.0; 01-SEP-2008 00:58:49; Dark ; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;34010
 12; 1807.9; 01-SEP-2008 01:01:56; Bright; 52.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 105; 0;34010
 13; 1895.6; 01-SEP-2008 01:03:24; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;34010
 14; 2075.4; 01-SEP-2008 01:06:24; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;34010
 15; 2488.0; 01-SEP-2008 01:13:17; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;34010
 16; 2600.9; 01-SEP-2008 01:15:09; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;34010
 17; 2678.4; 01-SEP-2008 01:16:27; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;34010
 18; 2975.3; 01-SEP-2008 01:21:24; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;34010
 19; 3434.5; 01-SEP-2008 01:29:03; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;34010
 20; 4453.0; 01-SEP-2008 01:46:02; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;34010
 21; 4916.3; 01-SEP-2008 01:53:45; Dark ; 39.0; 8; 10Alp CMi ; 0.40; 6500;occ; 78; 0;34010

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1; -658.8; 01-SEP-2008 02:01:26; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;34010
 2; -493.7; 01-SEP-2008 02:04:11; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;34010
 3; -399.4; 01-SEP-2008 02:05:45; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;34010
 4; -276.1; 01-SEP-2008 02:07:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34010
 5; -89.2; 01-SEP-2008 02:10:55; Dark ; 43.5; 2; Alp Car ; -0.74; 7000;occ; 87; 0;34010
 6; 530.3; 01-SEP-2008 02:21:15; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;34011
 7; 607.6; 01-SEP-2008 02:22:32; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;34011
 8; 965.0; 01-SEP-2008 02:28:29; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;34011
 9; 1085.9; 01-SEP-2008 02:30:30; Dark ; 38.5; 31; Alp Gru ; 1.73; 15200;occ; 77; 0;34011
 10; 1331.1; 01-SEP-2008 02:34:35; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;34011
 11; 1620.3; 01-SEP-2008 02:39:25; Dark ; 38.5; 142; 49Del Cap ; 2.85; 8900;occ; 77; 0;34011
 12; 1808.2; 01-SEP-2008 02:42:33; Bright; 36.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 73; 0;34011
 13; 1895.4; 01-SEP-2008 02:44:00; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;34011
 14; 2075.4; 01-SEP-2008 02:47:00; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;34011
 15; 2488.0; 01-SEP-2008 02:53:52; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;34011
 16; 2601.0; 01-SEP-2008 02:55:45; Bright; 37.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 75; 0;34011
 17; 2678.5; 01-SEP-2008 02:57:03; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;34011
 18; 2975.2; 01-SEP-2008 03:02:00; Bright; 34.0; 89; 5Alp Cep ; 2.45; 8000;occ; 68; 0;34011
 19; 3434.6; 01-SEP-2008 03:09:39; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;34011

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1; -1582.8; 01-SEP-2008 03:26:38; Bright; 55.0; 24; 66Alp Gem ; 1.58; 10200;occ; 110; 0;34011
 2; -1119.3; 01-SEP-2008 03:34:21; Dark ; 44.0; 8; 10Alp CMi ; 0.40; 6500;occ; 88; 0;34011
 3; -658.2; 01-SEP-2008 03:42:02; Dark ; 52.5; 1; 9Alp CMA ; -1.44; 11000;occ; 105; 0;34011
 4; -493.2; 01-SEP-2008 03:44:47; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;34011
 5; -399.0; 01-SEP-2008 03:46:21; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;34011
 6; -275.7; 01-SEP-2008 03:48:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34011
 7; -88.7; 01-SEP-2008 03:51:32; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;34011
 8; 531.0; 01-SEP-2008 04:01:51; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34012
 9; 608.2; 01-SEP-2008 04:03:09; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;34012
 10; 965.7; 01-SEP-2008 04:09:06; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;34012
 11; 1086.3; 01-SEP-2008 04:11:07; Dark ; 36.5; 31; Alp Gru ; 1.73; 15200;occ; 73; 0;34012
 12; 1331.5; 01-SEP-2008 04:15:12; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;34012
 13; 1620.6; 01-SEP-2008 04:20:01; Dark ; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;34012
 14; 1808.1; 01-SEP-2008 04:23:08; Bright; 36.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 73; 0;34012
 15; 1895.6; 01-SEP-2008 04:24:36; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;34012
 16; 2075.4; 01-SEP-2008 04:27:36; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;34012
 17; 2488.3; 01-SEP-2008 04:34:29; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;34012
 18; 2601.4; 01-SEP-2008 04:36:22; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;34012
 19; 2678.6; 01-SEP-2008 04:37:39; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;34012
 20; 2975.3; 01-SEP-2008 04:42:36; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;34012
 21; 3434.7; 01-SEP-2008 04:50:15; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;34012

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1; -1582.6; 01-SEP-2008 05:07:14; Bright; 36.5; 24; 66Alp Gem ; 1.58; 10200;occ; 73; 0;34012
 2; -1118.9; 01-SEP-2008 05:14:57; Dark ; 38.5; 8; 10Alp CMi ; 0.40; 6500;occ; 77; 0;34012
 3; -657.5; 01-SEP-2008 05:22:39; Dark ; 49.5; 1; 9Alp CMA ; -1.44; 11000;occ; 99; 0;34012


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4; -492.5; 01-SEP-2008 05:25:24; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;34012
5; -398.5; 01-SEP-2008 05:26:58; Dark ; 42.0; 117; Pi Pup ; 2.71; 3800;occ; 84; 0;34012
6; -275.3; 01-SEP-2008 05:29:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34012
7; -88.3; 01-SEP-2008 05:32:08; Dark ; 53.5; 2; Alp Car ;-0.74; 7000;occ; 107; 0;34012
8; 531.5; 01-SEP-2008 05:42:28; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;34013
9; 608.8; 01-SEP-2008 05:43:45; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;34013
10; 966.3; 01-SEP-2008 05:49:43; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;34013
11; 1086.5; 01-SEP-2008 05:51:43; Dark ; 37.0; 31; Alp Gru ; 1.73; 15200;occ; 74; 0;34013
12; 1331.7; 01-SEP-2008 05:55:48; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;34013
13; 1620.7; 01-SEP-2008 06:00:37; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;34013
14; 1808.2; 01-SEP-2008 06:03:45; Bright; 36.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 73; 0;34013
15; 1895.6; 01-SEP-2008 06:05:12; Bright; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;34013
16; 2075.4; 01-SEP-2008 06:08:12; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;34013
17; 2488.4; 01-SEP-2008 06:15:05; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;34013
18; 2601.5; 01-SEP-2008 06:16:58; Bright; 34.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 69; 0;34013
19; 2678.7; 01-SEP-2008 06:18:15; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;34013
20; 2975.2; 01-SEP-2008 06:23:12; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;34013
21; 3434.7; 01-SEP-2008 06:30:51; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;34013
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4; 1621.6; 01-SEP-2008 21:06:01; Dark ; 50.0; 142; 49Del Cap ; 2.85; 8900;occ; 100; 0;34022
5; 1809.1; 01-SEP-2008 21:09:09; Bright; 52.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 104; 0;34022
6; 1895.4; 01-SEP-2008 21:10:35; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;34022
7; 2074.9; 01-SEP-2008 21:13:35; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;34022
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9; 2602.7; 01-SEP-2008 21:22:22; Bright; 33.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 66; 0;34022
10; 2679.0; 01-SEP-2008 21:23:39; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;34022
11; 2974.3; 01-SEP-2008 21:28:34; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;34022
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13; 4454.7; 01-SEP-2008 21:53:14; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;34022
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2; -487.3; 01-SEP-2008 22:11:28; Dark ; 41.5; 23; 21Eps CMa ; 1.50; 26000;occ; 83; 0;34022
3; -394.5; 01-SEP-2008 22:13:01; Dark ; 41.0; 117; Pi Pup ; 2.71; 3800;occ; 82; 0;34022
4; -271.7; 01-SEP-2008 22:15:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34022
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 6; 2972.0; 04-SEP-2008 09:50:05; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;34058
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7; 45.5; 18-SEP-2008 04:59:52; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;34256
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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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11; 2392.4; 22-SEP-2008 23:39:43; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34324
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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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6; -97.4; 25-SEP-2008 06:17:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34356
7; 30.5; 25-SEP-2008 06:20:07; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;34357
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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
10; 5949.5; 26-SEP-2008 09:07:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34372
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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3; 2969.2; 26-SEP-2008 09:58:40; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;34373
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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6; 5540.4; 26-SEP-2008 12:22:08; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;34374
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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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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3; 2166.5; 27-SEP-2008 20:57:52; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34394
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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7; 3429.1; 27-SEP-2008 21:18:55; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 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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4; 2053.1; 27-SEP-2008 07:31:11; Bright; 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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19; 6306.2; 27-SEP-2008 08:42:05; Dark ; 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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7; 2870.4; 27-SEP-2008 09:25:25; 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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3; 2909.5; 27-SEP-2008 11:06:40; Bright; 98.5; 68; 18Alp Cas ; 2.22; 4500;occ; 197; 0;34388
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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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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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