

GOMOS Daily Report 23-JAN-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	28JAN2009 05:39:36
Data source version	GOMOS/5.00
Start time of products	23JAN2009 00:06:42
Stop time of products	23JAN2009 02:43:36
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

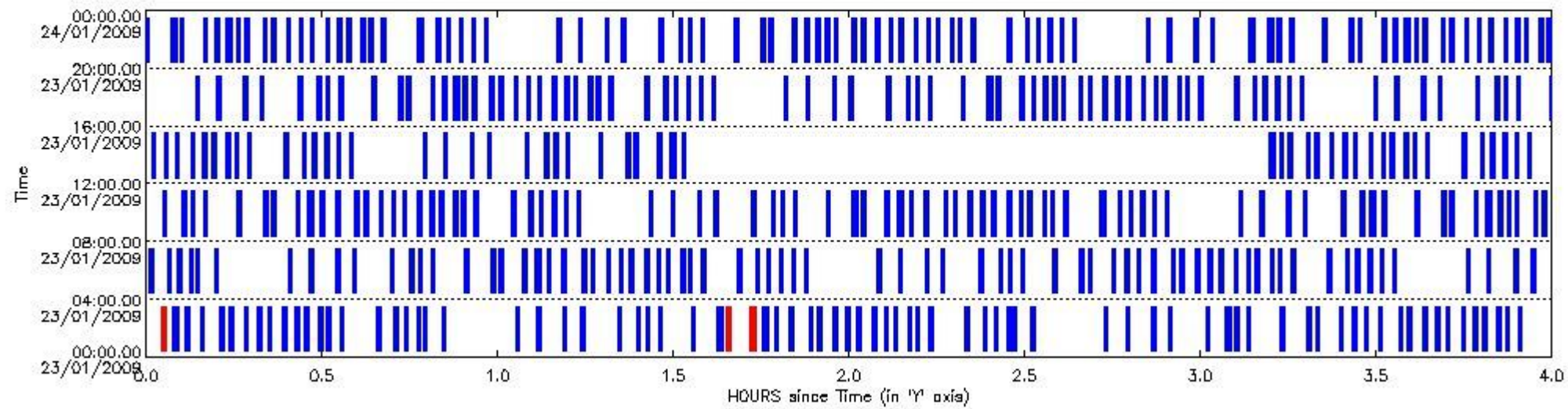
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

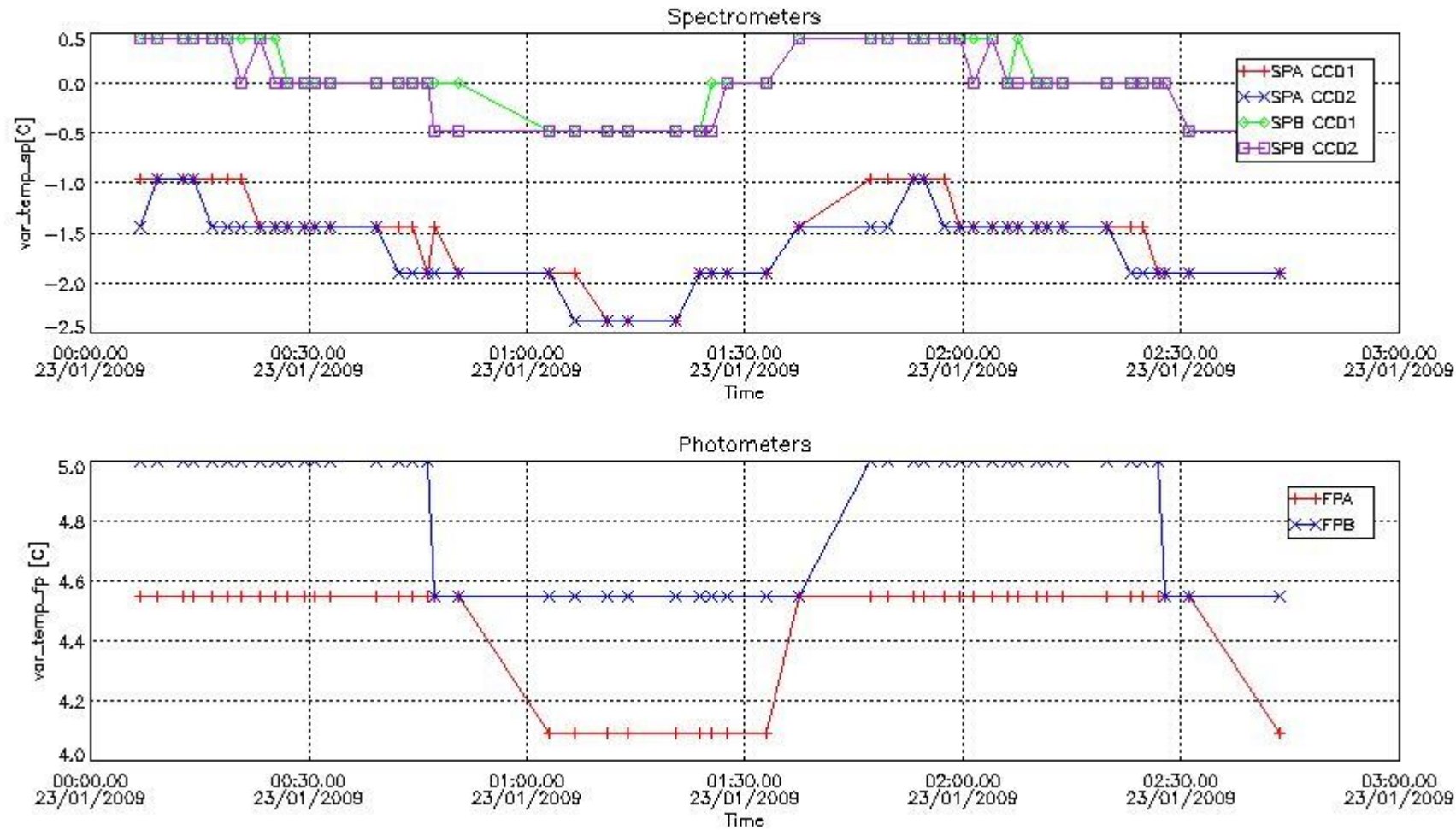
UTC start time	Star name	Star ID	Orbit
23-JAN-2009 00:02:29	GamLup	131	36070
23-JAN-2009 01:39:02	26EpsSco	75	36071
23-JAN-2009 01:43:05	GamLup	131	36071

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_1PNPDE20090123_000642_000000392075_00446_36071_8507.N1	23-JAN-2009 00:06:42	Dark	39.000	134	Bet TrA	2.8100	6600.0	78	36071	No
2	GOM_TRA_1PNPDE20090123_000908_000000452075_00446_36071_8508.N1	23-JAN-2009 00:09:08	Dark	44.500	10	Bet Cen	0.61000	28000.	89	36071	No
3	GOM_TRA_1PNPDE20090123_001235_000000452075_00446_36071_8509.N1	23-JAN-2009 00:12:35	Dark	45.000	12	Alp1Cru	0.77500	30000.	90	36071	No
4	GOM_TRA_1PNPDE20090123_001402_000000452075_00446_36071_8510.N1	23-JAN-2009 00:14:02	Dark	45.000	99	Del Cen	2.5750	26000.	90	36071	No
5	GOM_TRA_1PNPDE20090123_001643_000000382075_00446_36071_8511.N1	23-JAN-2009 00:16:43	Dark	37.500	29	Bet Car	1.6720	10200.	75	36071	No
6	GOM_TRA_1PNPDE20090123_001852_000000462075_00446_36071_8512.N1	23-JAN-2009 00:18:52	Dark	45.500	71	lot Car	2.2460	7700.0	91	36071	No
7	GOM_TRA_1PNPDE20090123_002042_000000402075_00446_36071_8513.N1	23-JAN-2009 00:20:42	Dark	39.500	46	Del Vel	1.9540	10600.	79	36071	No
8	GOM_TRA_1PNPDE20090123_002319_000000442075_00446_36071_8514.N1	23-JAN-2009 00:23:19	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	36071	No

9	GOM_TRA_1PNPDE20090123_002526_000000412075_00446_36071_8515.N1	23-JAN-2009 00:25:26	Straylight	40.500	70	Zet Pup	2.2460	39000.	81	36071	No
10	GOM_TRA_1PNPDE20090123_002657_000000442075_00446_36071_8516.N1	23-JAN-2009 00:26:57	Straylight	43.500	117	Pi Pup	2.7060	3800.0	87	36071	No
11	GOM_TRA_1PNPDE20090123_002926_000000432075_00446_36071_8517.N1	23-JAN-2009 00:29:26	Straylight	43.000	23	21Eps CMa	1.5020	26000.	86	36071	No
12	GOM_TRA_1PNPDE20090123_003049_000000412075_00446_36071_8518.N1	23-JAN-2009 00:30:49	Straylight	41.000	179	24Omi2CMa	3.0320	24000.	82	36071	No
13	GOM_TRA_1PNPDE20090123_003259_000000432075_00446_36071_8519.N1	23-JAN-2009 00:32:59	Straylight	42.500	1	9Alp CMa	-1.4400	11000.	85	36071	No
14	GOM_TRA_1PNPDE20090123_003911_000000572075_00446_36071_8520.N1	23-JAN-2009 00:39:11	Twilight	56.500	8	10Alp CMi	0.40000	6500.0	113	36071	No
15	GOM_TRA_1PNPDE20090123_004221_000000362075_00446_36071_8521.N1	23-JAN-2009 00:42:21	Bright	35.500	44	24Gam Gem	1.9280	11000.	71	36071	No
16	GOM_TRA_1PNPDE20090123_004407_000000392075_00446_36071_8522.N1	23-JAN-2009 00:44:07	Bright	39.000	151	13Mu Gem	2.8900	3000.0	78	36071	No
17	GOM_TRA_1PNPDE20090123_004616_000000262075_00446_36071_8523.N1	23-JAN-2009 00:46:16	Twilight	26.000	17	78Bet Gem	1.1610	4500.0	52	36071	No
18	GOM_TRA_1PNPDE20090123_004714_000000412075_00446_36071_8524.N1	23-JAN-2009 00:47:14	Bright	40.500	24	66Alp Gem	1.5800	10200.	81	36071	No
19	GOM_TRA_1PNPDE20090123_005028_000000352075_00446_36071_8525.N1	23-JAN-2009 00:50:28	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	36071	No
20	GOM_TRA_1PNPDE20090123_010301_000000362075_00446_36071_8526.N1	23-JAN-2009 01:03:01	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	36071	No
21	GOM_TRA_1PNPDE20090123_010636_000000412075_00446_36071_8527.N1	23-JAN-2009 01:06:36	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	36071	No
22	GOM_TRA_1PNPDE20090123_011107_000000392075_00446_36071_8528.N1	23-JAN-2009 01:11:07	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	36071	No
23	GOM_TRA_1PNPDE20090123_011359_000000532075_00446_36071_8529.N1	23-JAN-2009 01:13:59	Bright	53.000	130	23Bet Dra	2.7990	5800.0	106	36071	No
24	GOM_TRA_1PNPDE20090123_012023_000000382075_00446_36071_8530.N1	23-JAN-2009 01:20:23	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	36071	No
25	GOM_TRA_1PNPDE20090123_012341_000000412075_00446_36071_8531.N1	23-JAN-2009 01:23:41	Bright	40.500	127	27Bet Her	2.7810	4700.0	81	36071	No
26	GOM_TRA_1PNPDE20090123_012519_000000352075_00446_36071_8532.N1	23-JAN-2009 01:25:19	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	36071	No
27	GOM_TRA_1PNPDE20090123_012725_000000432075_00446_36071_8533.N1	23-JAN-2009 01:27:25	Bright	43.000	126	60Bet Oph	2.7700	4250.0	86	36071	No
28	GOM_TRA_1PNPDE20090123_013301_000000462075_00446_36071_8642.N1	23-JAN-2009 01:33:01	Bright	45.500	98	13Zet Oph	2.5710	30000.	91	36071	No
29	GOM_TRA_1PNPDE20090123_013731_000000512075_00446_36071_8643.N1	23-JAN-2009 01:37:31	Twilight	50.500	16	21Alp Sco	1.0200	3000.0	101	36071	No
30	GOM_TRA_1PNPDE20090123_014719_000000392075_00447_36072_8644.N1	23-JAN-2009 01:47:19	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	36072	No
31	GOM_TRA_1PNPDE20090123_014944_000000402075_00447_36072_8645.N1	23-JAN-2009 01:49:44	Dark	40.000	10	Bet Cen	0.61000	28000.	80	36072	No
32	GOM_TRA_1PNPDE20090123_015313_000000402075_00447_36072_8646.N1	23-JAN-2009 01:53:13	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	36072	No
33	GOM_TRA_1PNPDE20090123_015439_000000452075_00447_36072_8647.N1	23-JAN-2009 01:54:39	Dark	45.000	99	Del Cen	2.5750	26000.	90	36072	No
34	GOM_TRA_1PNPDE20090123_015720_000000382075_00447_36072_8648.N1	23-JAN-2009 01:57:20	Dark	38.000	29	Bet Car	1.6720	10200.	76	36072	No
35	GOM_TRA_1PNPDE20090123_015929_000000432075_00447_36072_8649.N1	23-JAN-2009 01:59:29	Dark	42.500	71	lot Car	2.2460	7700.0	85	36072	No
36	GOM_TRA_1PNPDE20090123_020118_000000442075_00447_36072_8650.N1	23-JAN-2009 02:01:18	Dark	44.000	46	Del Vel	1.9540	10600.	88	36072	No
37	GOM_TRA_1PNPDE20090123_020355_000000452075_00447_36072_8651.N1	23-JAN-2009 02:03:55	Dark	44.500	34	Gam2Vel	1.7930	23000.	89	36072	No
38	GOM_TRA_1PNPDE20090123_020602_000000422075_00447_36072_8652.N1	23-JAN-2009 02:06:02	Straylight	42.000	70	Zet Pup	2.2460	39000.	84	36072	No
39	GOM_TRA_1PNPDE20090123_020733_000000452075_00447_36072_8653.N1	23-JAN-2009 02:07:33	Straylight	44.500	117	Pi Pup	2.7060	3800.0	89	36072	No
40	GOM_TRA_1PNPDE20090123_021002_000000412075_00447_36072_8654.N1	23-JAN-2009 02:10:02	Straylight	41.000	23	21Eps CMa	1.5020	26000.	82	36072	No
41	GOM_TRA_1PNPDE20090123_021125_000000402075_00447_36072_8655.N1	23-JAN-2009 02:11:25	Straylight	40.000	179	24Omi2CMa	3.0320	24000.	80	36072	No
42	GOM_TRA_1PNPDE20090123_021335_000000432075_00447_36072_8656.N1	23-JAN-2009 02:13:35	Straylight	43.000	1	9Alp CMa	-1.4400	11000.	86	36072	No
43	GOM_TRA_1PNPDE20090123_021947_000000512075_00447_36072_8657.N1	23-JAN-2009 02:19:47	Twilight	51.000	8	10Alp CMi	0.40000	6500.0	102	36072	No
44	GOM_TRA_1PNPDE20090123_022257_000000392075_00447_36072_8658.N1	23-JAN-2009 02:22:57	Bright	38.500	44	24Gam Gem	1.9280	11000.	77	36072	No
45	GOM_TRA_1PNPDE20090123_022443_000000402075_00447_36072_8659.N1	23-JAN-2009 02:24:43	Bright	40.000	151	13Mu Gem	2.8900	3000.0	80	36072	No
46	GOM_TRA_1PNPDE20090123_022652_000000342075_00447_36072_8660.N1	23-JAN-2009 02:26:52	Bright	34.000	17	78Bet Gem	1.1610	4500.0	68	36072	No
47	GOM_TRA_1PNPDE20090123_022749_000000432075_00447_36072_8661.N1	23-JAN-2009 02:27:49	Bright	42.500	24	66Alp Gem	1.5800	10200.	85	36072	No
48	GOM_TRA_1PNPDE20090123_023105_000000362075_00447_36072_8662.N1	23-JAN-2009 02:31:05	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	36072	No
49	GOM_TRA_1PNPDE20090123_024336_000000372075_00447_36072_8663.N1	23-JAN-2009 02:43:36	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	36072	No

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



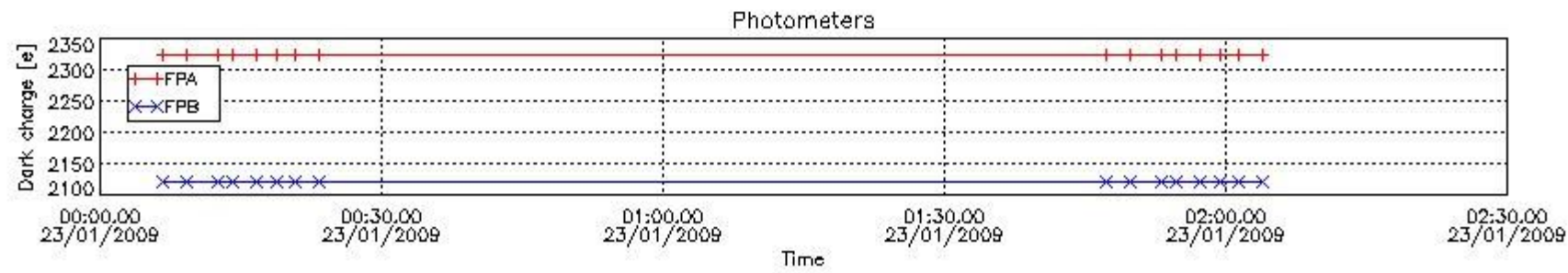
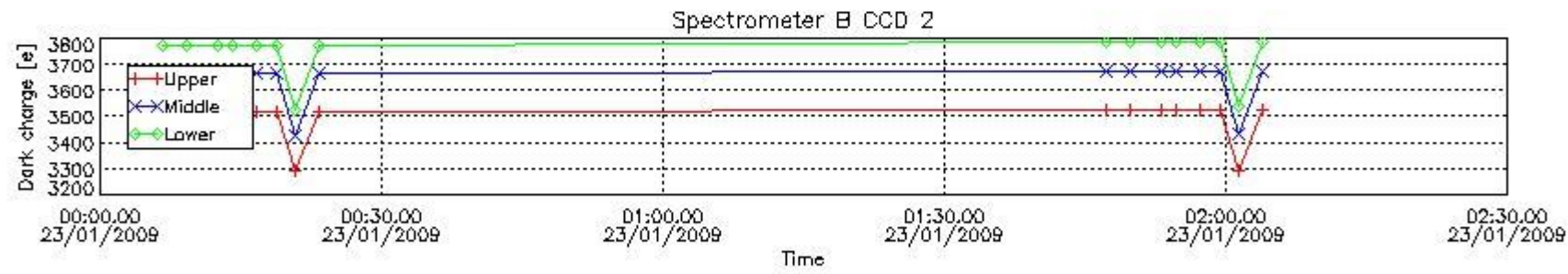
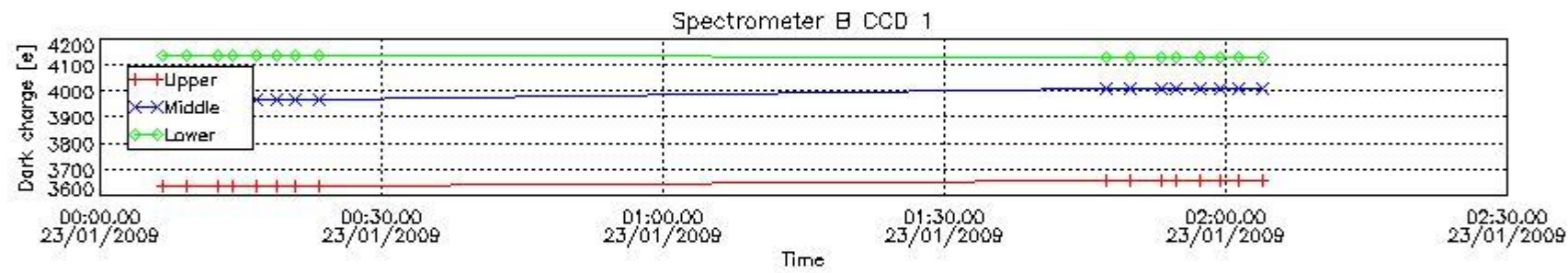
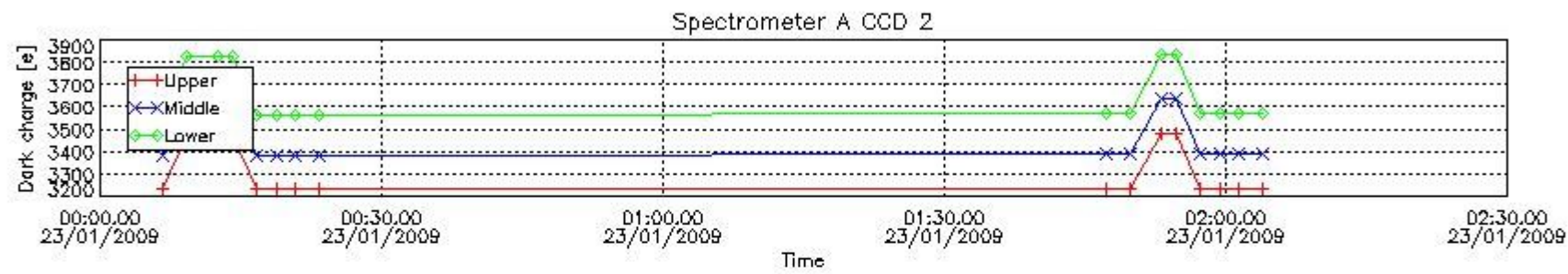
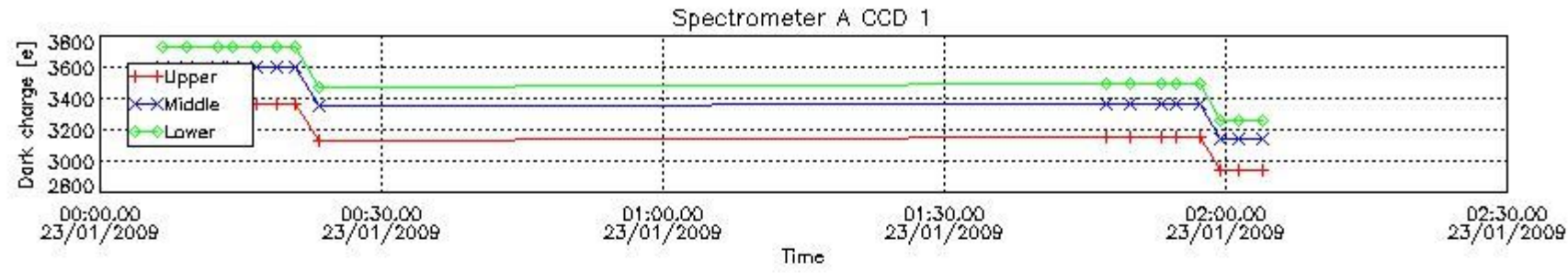
4. Overview of dark signal processing per product

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



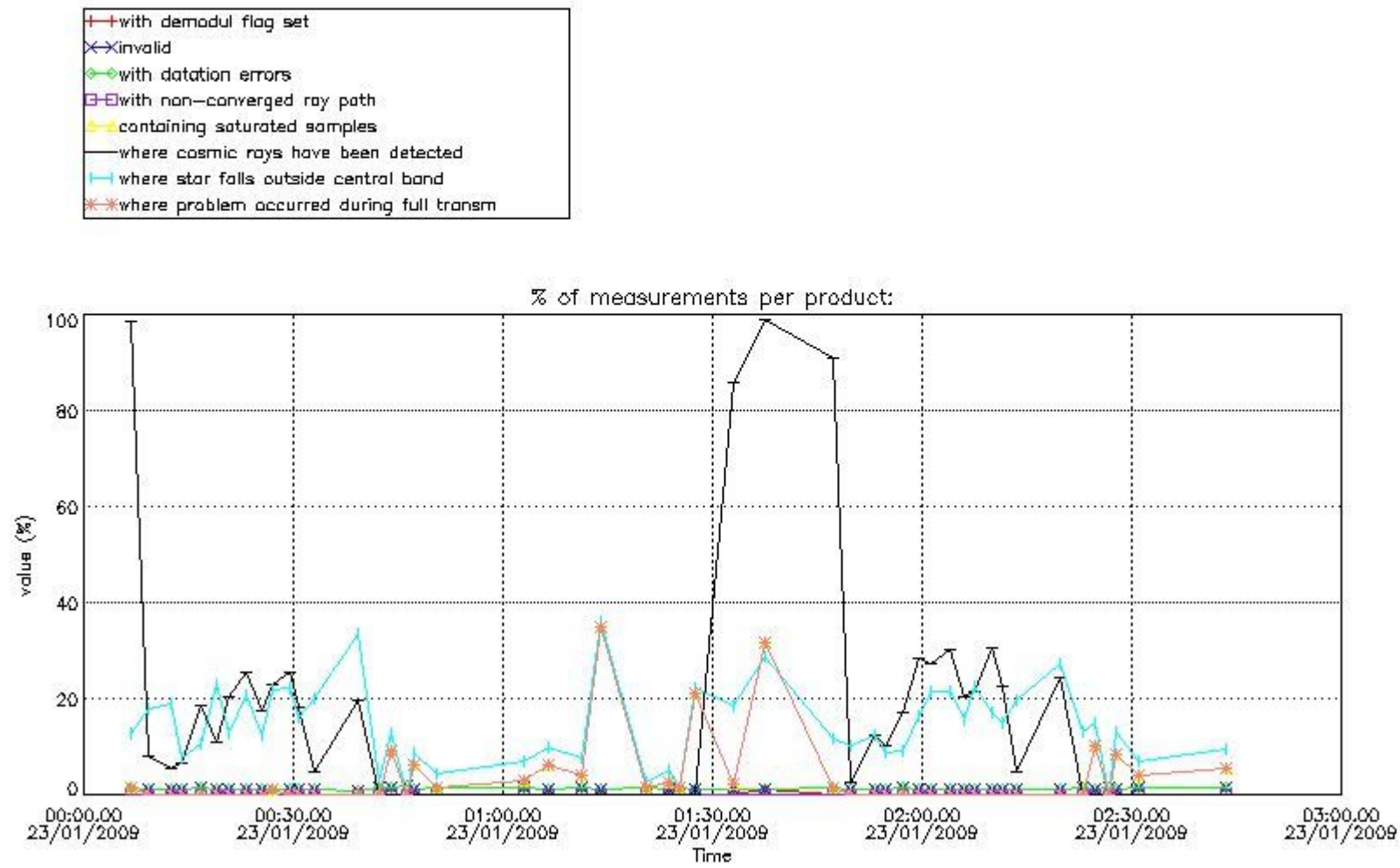
5. Demodulation flag and quality information monitoring

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.

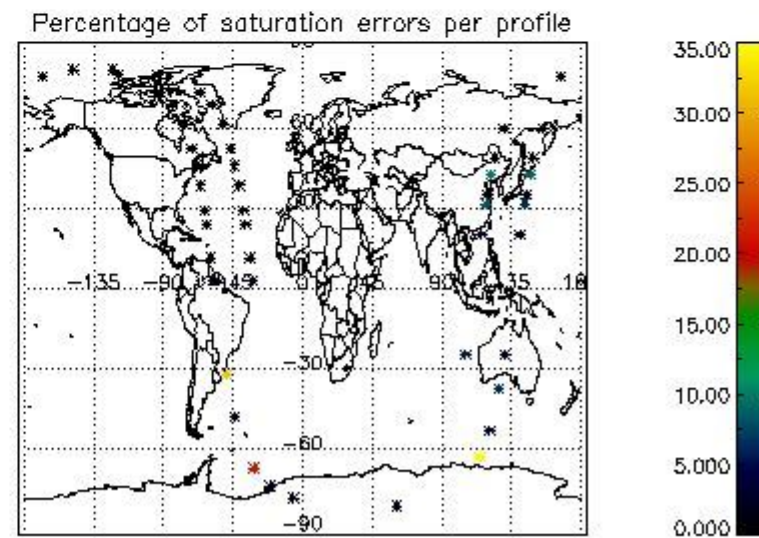
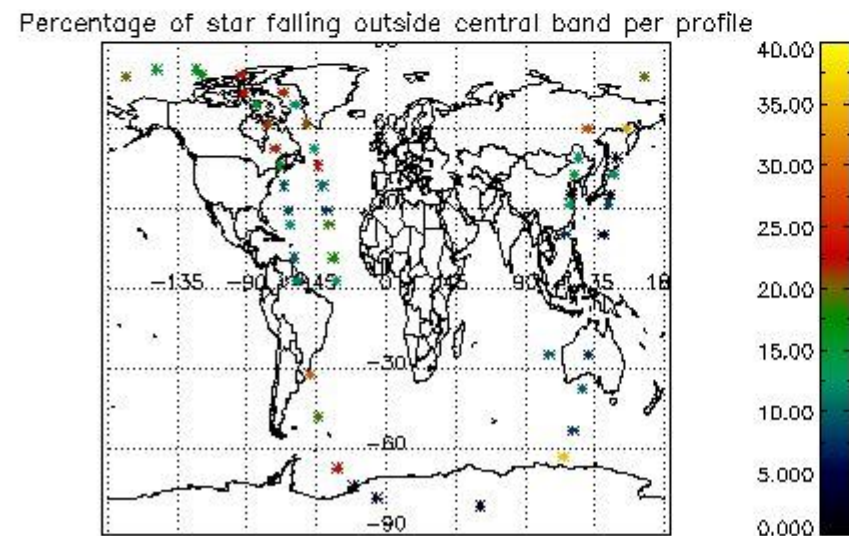
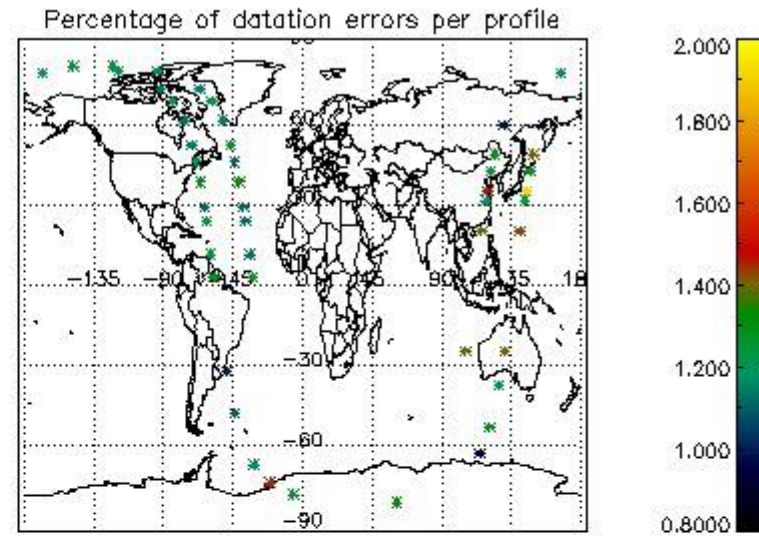
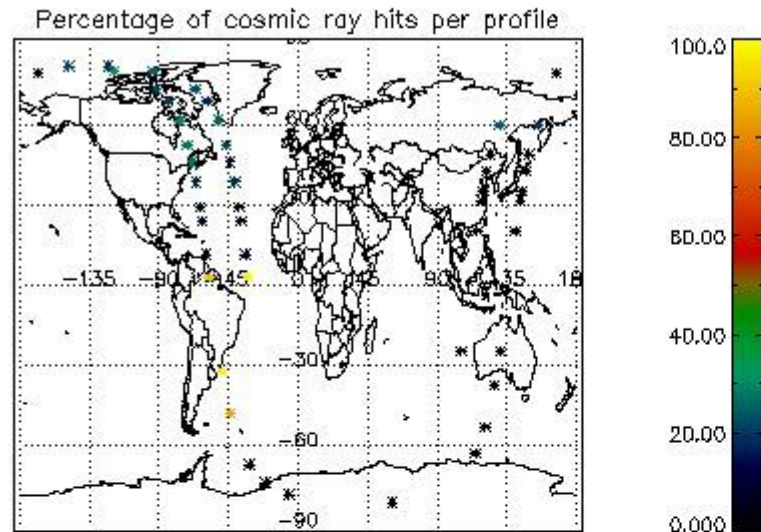
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.4898 %
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)



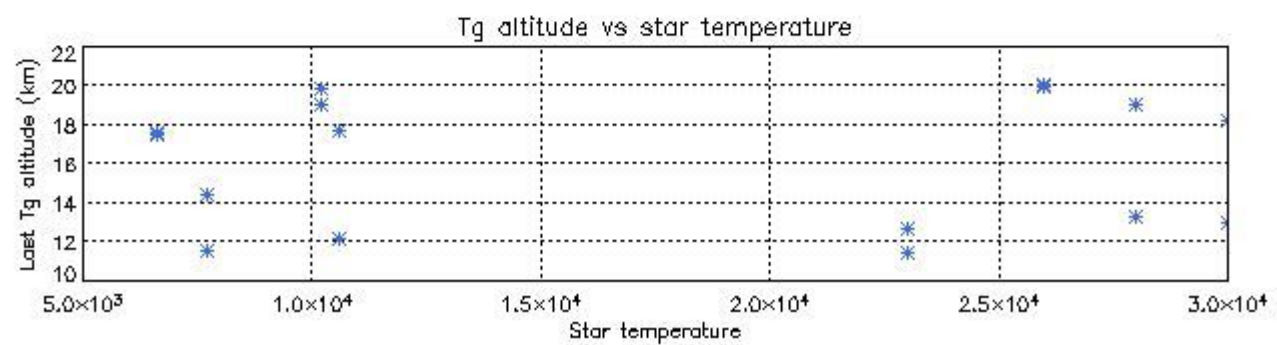
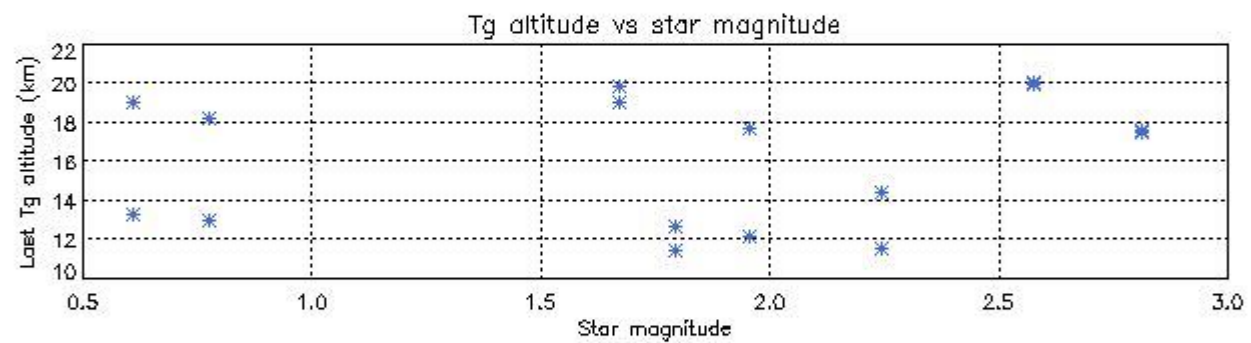
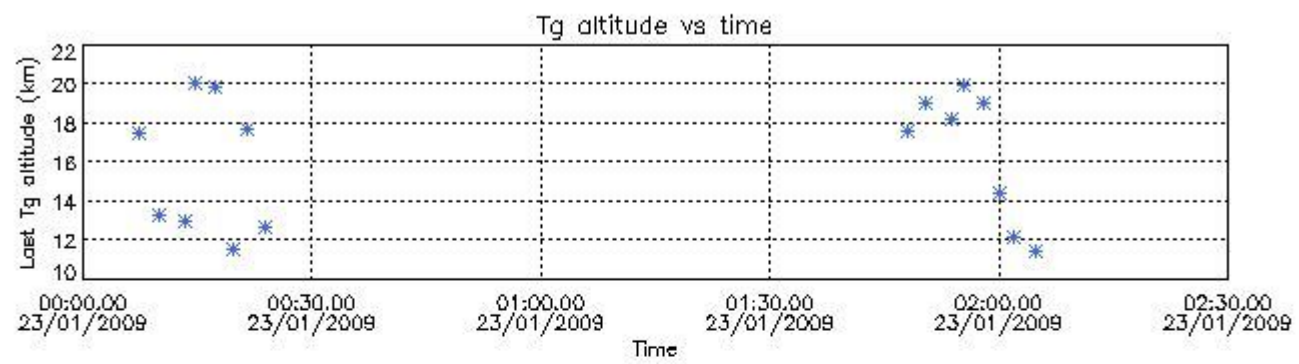
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.086	18.799	7.0151
St. deviation:	3.2921	6.5945	0.0000
Maximum:	20.100	36.056	7.0151
Minimum:	11.427	3.4776	7.0151
Number of data:	16.000	19.000	1.0000

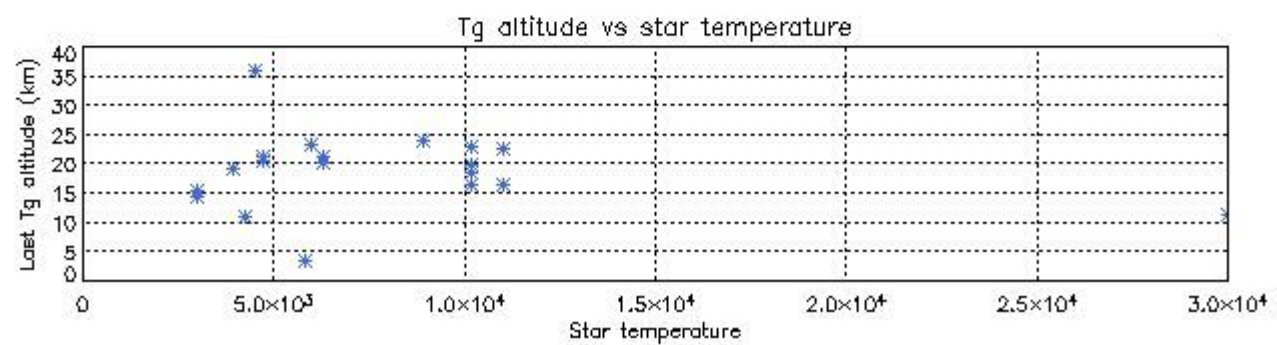
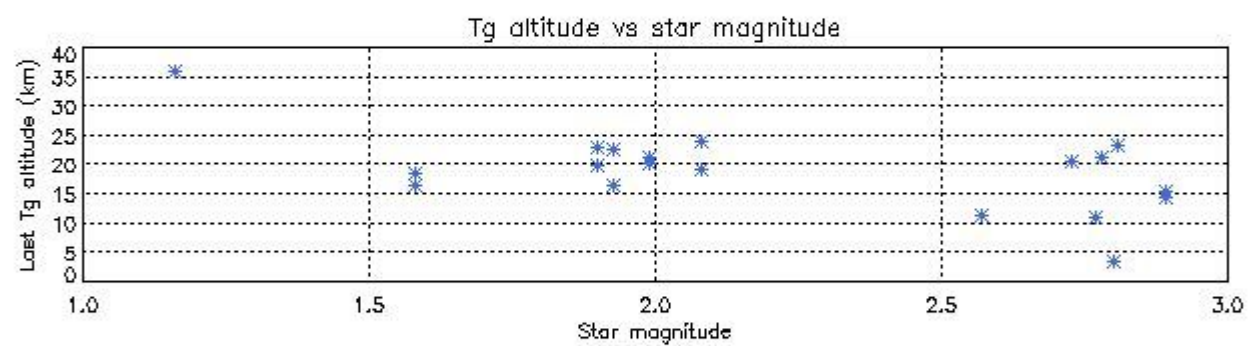
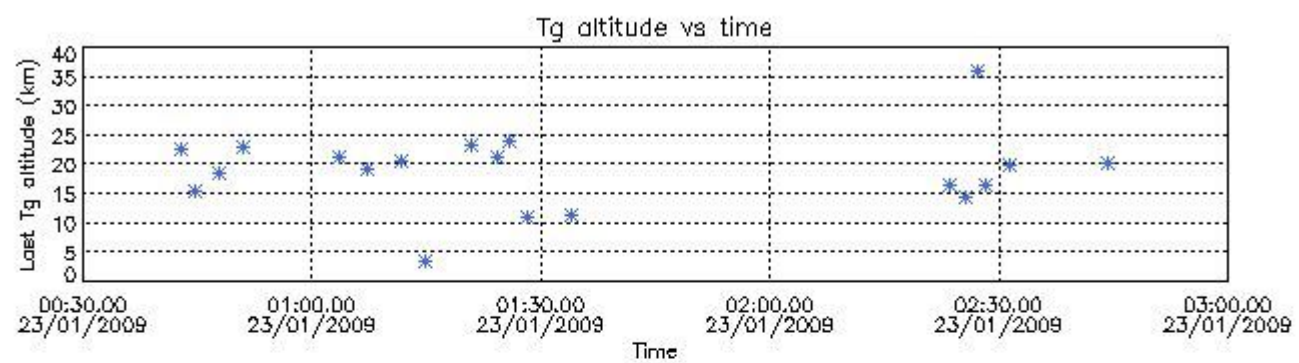
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



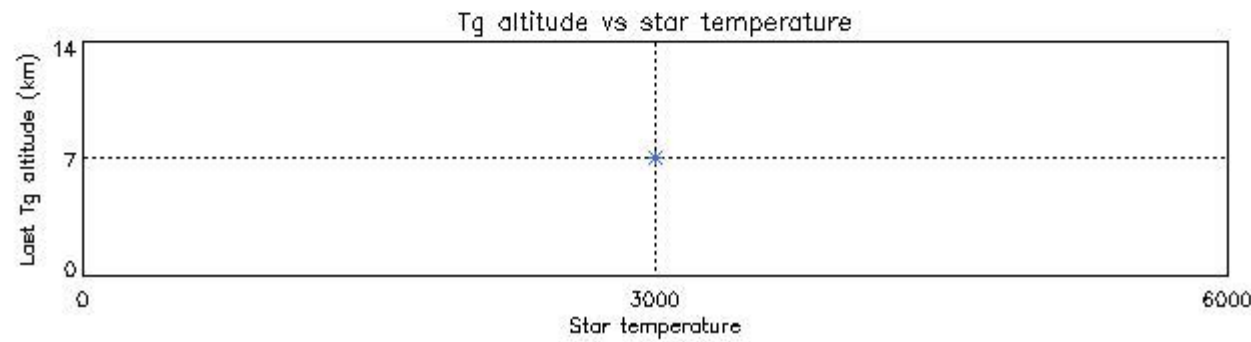
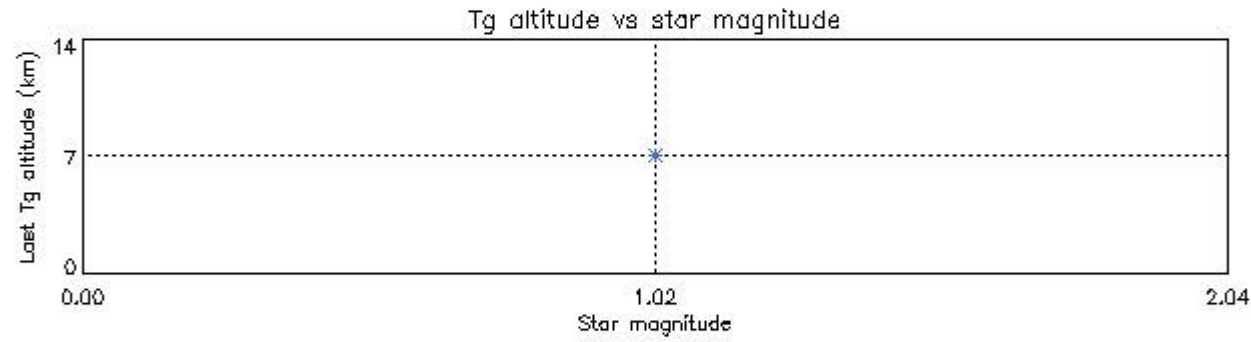
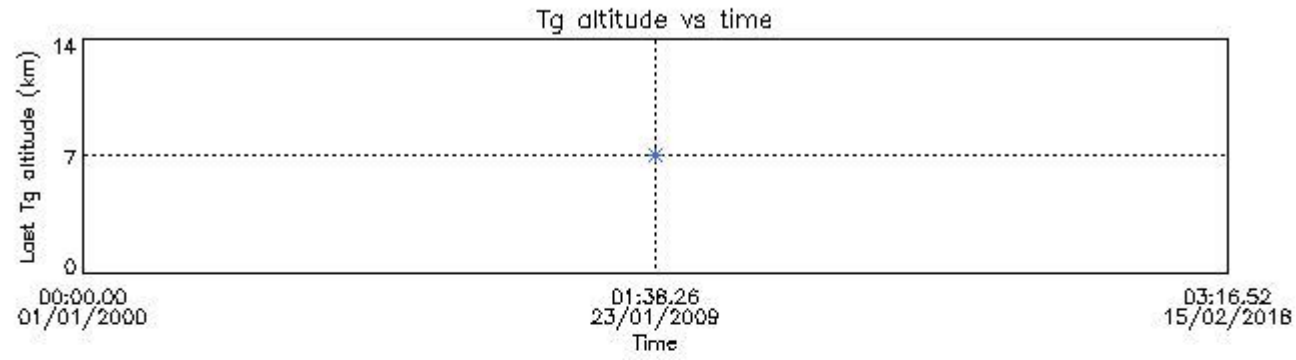
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

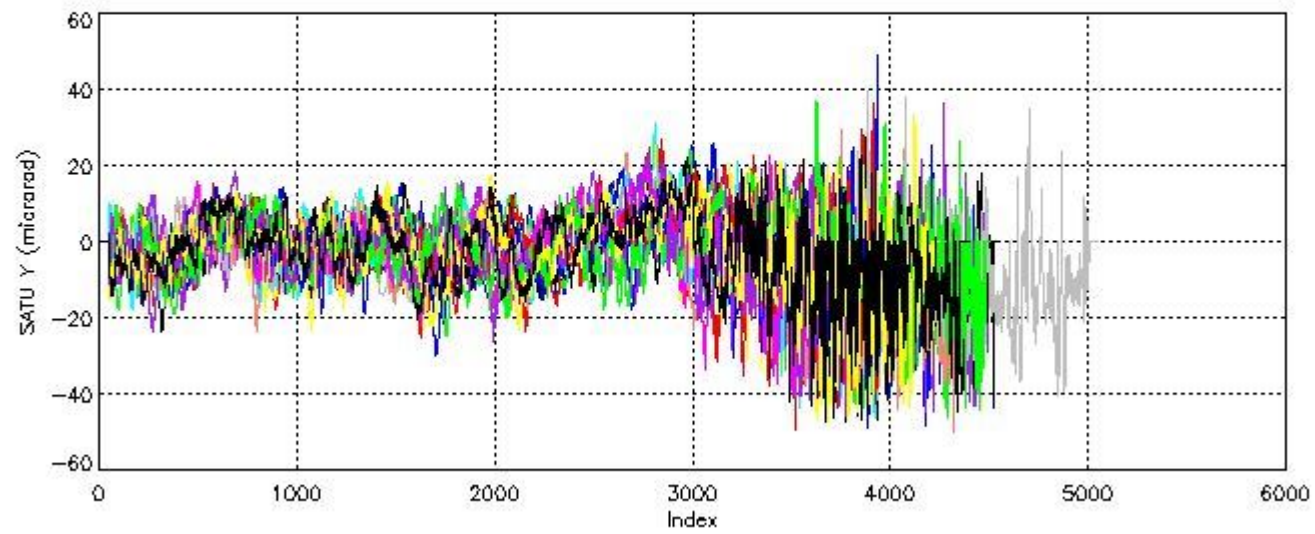
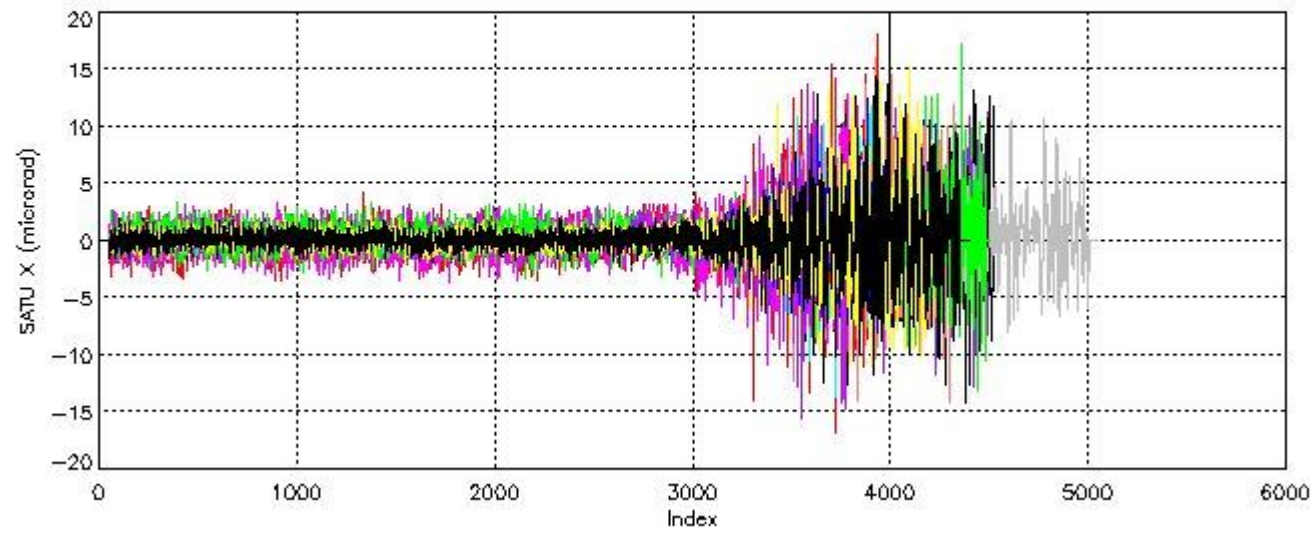


7. Star Acquisition and Tracking Unit (SATU)

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:	0.11534	-1.3792	0.11281	-0.44190
St. deviation:	0.61470	6.2466	0.63304	6.1181
Maximum:	3.3000	18.200	3.1000	19.300
Minimum:	-3.5000	-23.700	-3.4000	-23.500

Number of data:	14950.	14950.	16800.	16800.
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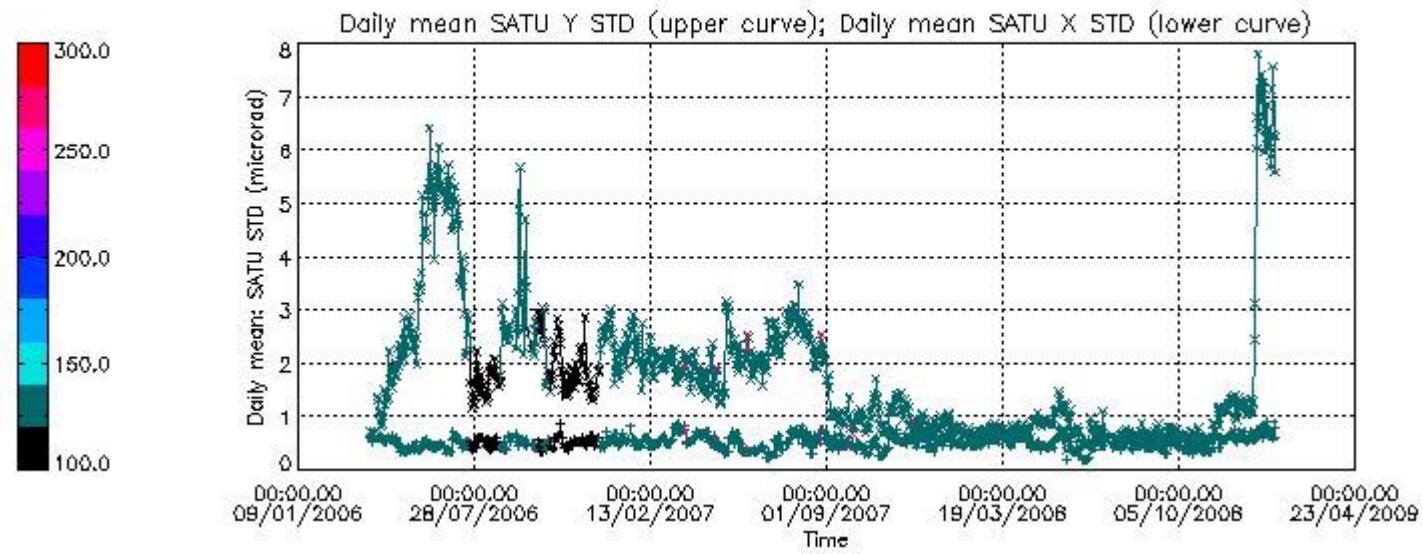
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

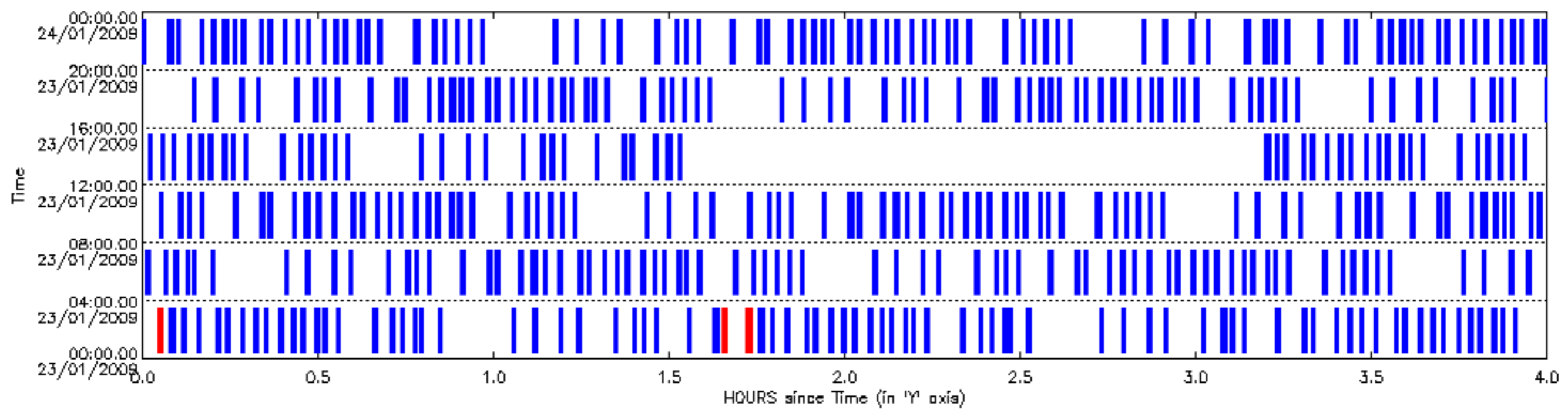
Lower curve: STD of SATU X axis

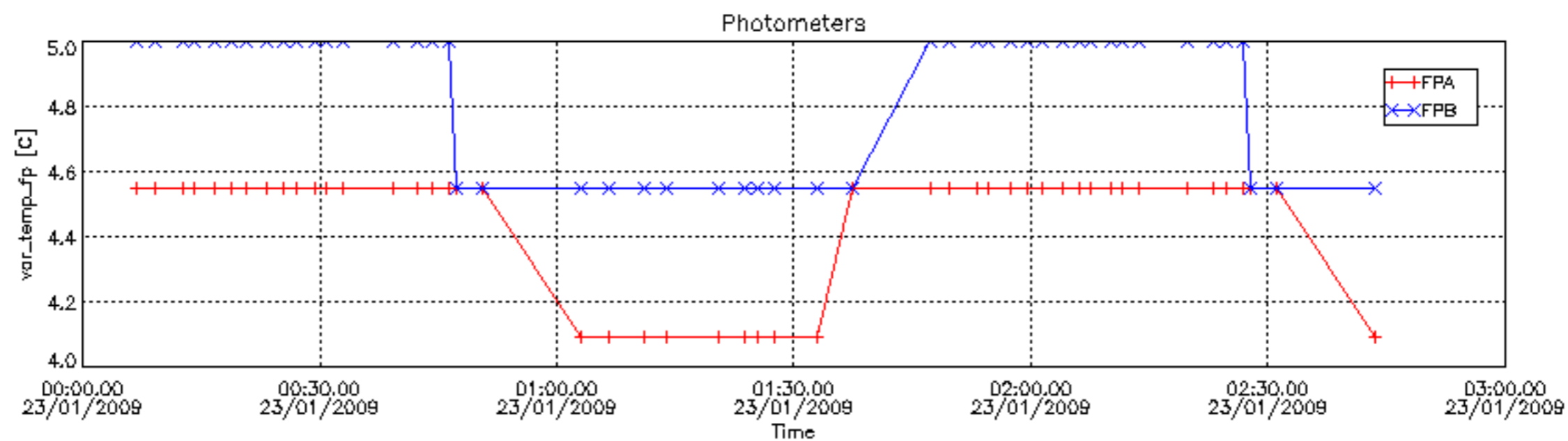
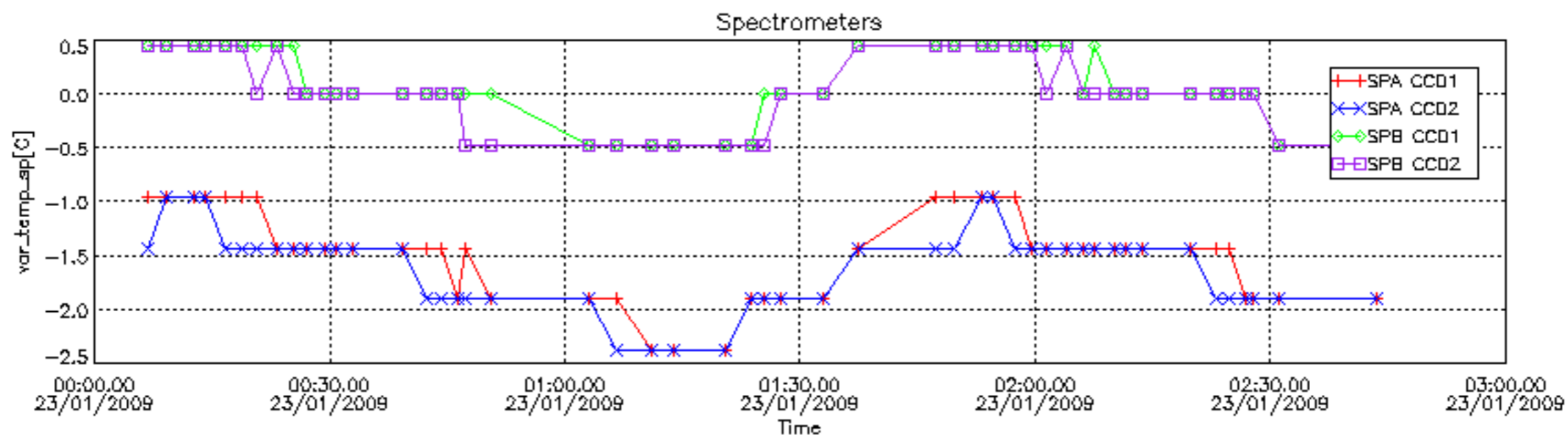


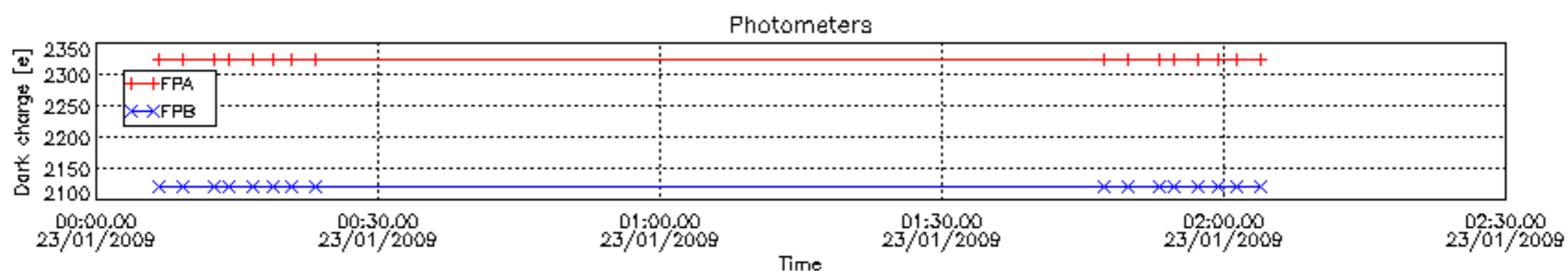
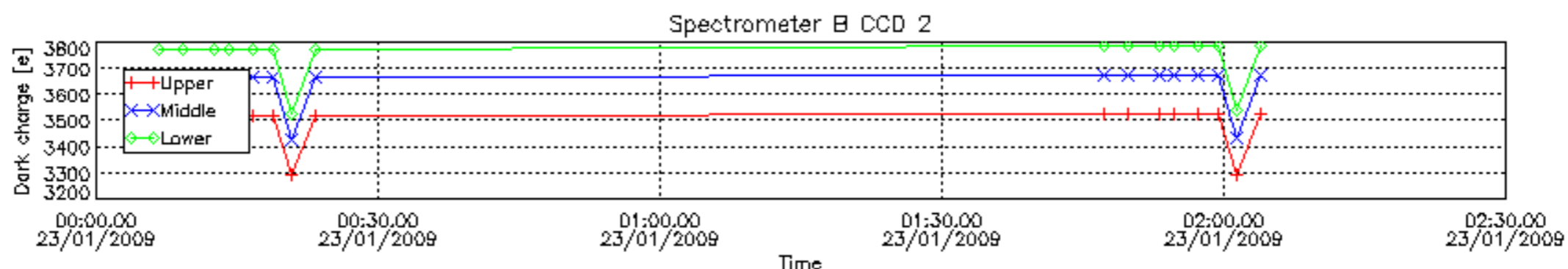
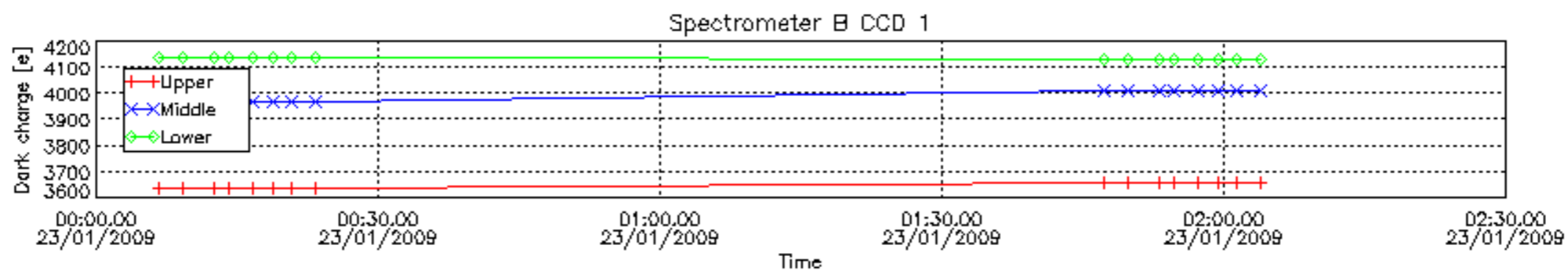
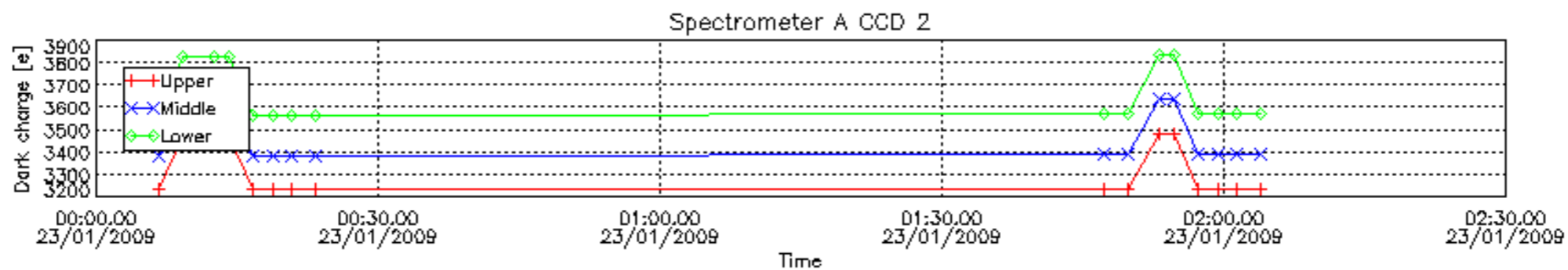
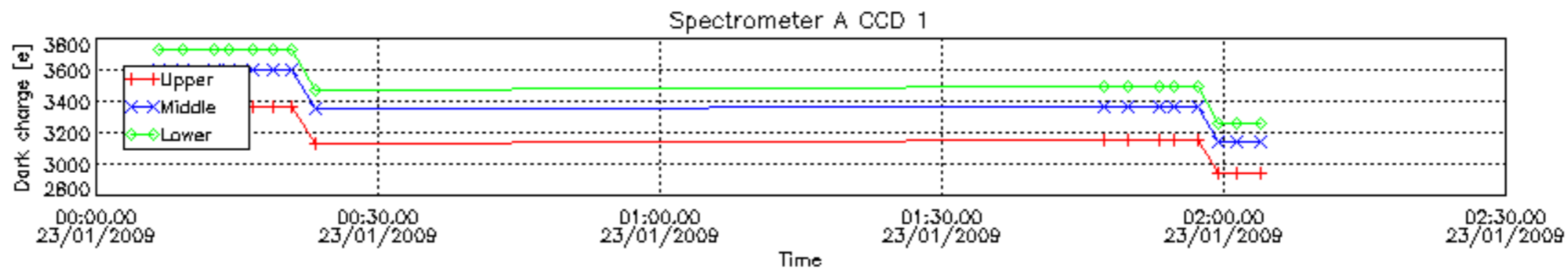
8. Auxiliary Data Files used for the production reported in section 2.4

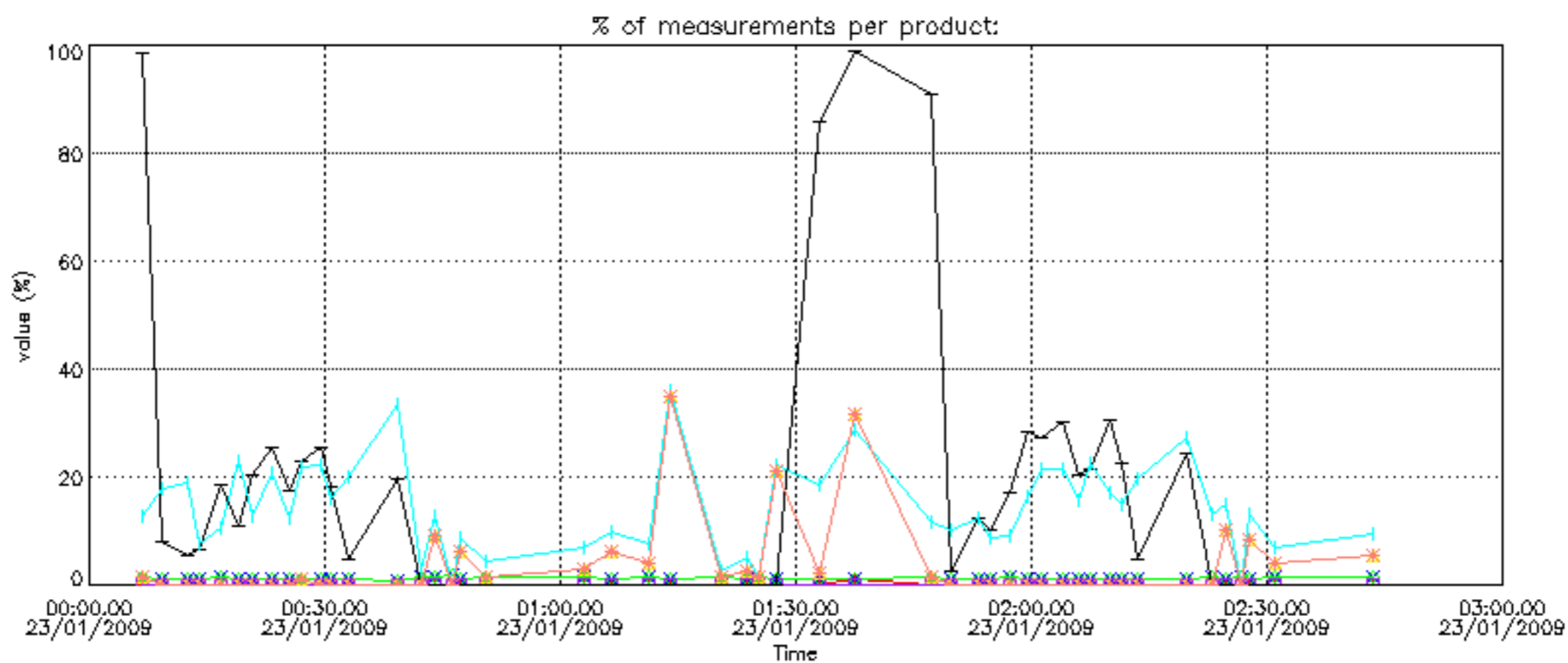
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	23-JAN-2009 00:06:42
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090113_094413_20090111_000000_20100101_000000	1	23-JAN-2009 00:06:42
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	23-JAN-2009 00:06:42
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	23-JAN-2009 00:06:42
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	23-JAN-2009 00:06:42
ECMWF_FILE	AUX_ECF_AXNECM20090123_160712_20090122_210000_20090123_090000	1	23-JAN-2009 00:06:42
OPTIONAL_ECMWF_FILE	MISSING	1	23-JAN-2009 00:06:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090122_221039_000057382075_00444_36069_7217.N1	1	23-JAN-2009 00:06:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090122_235136_000057382075_00445_36070_7218.N1	28	23-JAN-2009 01:33:01

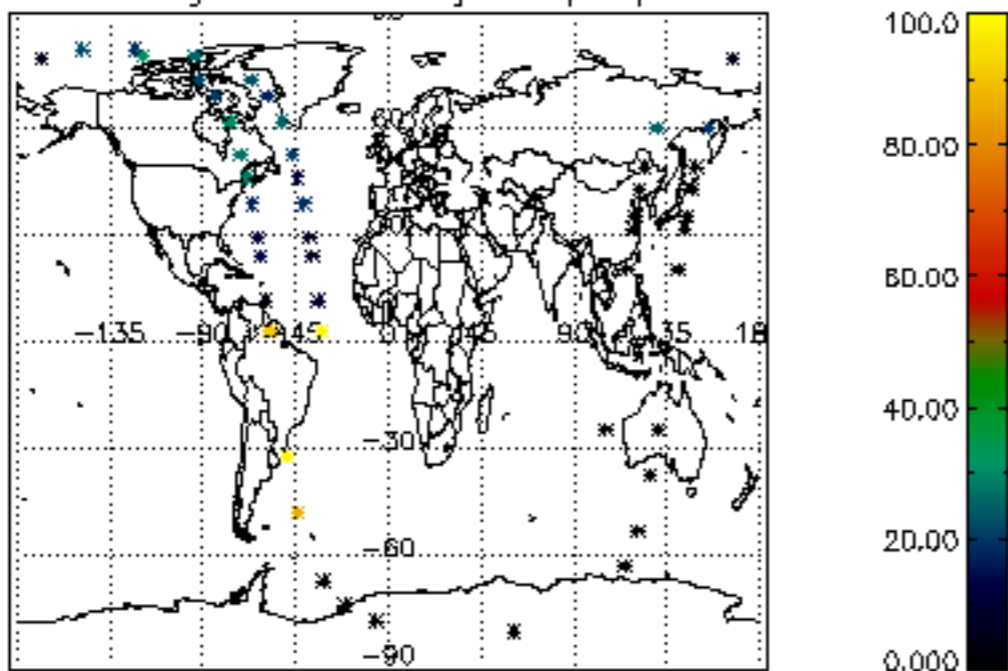




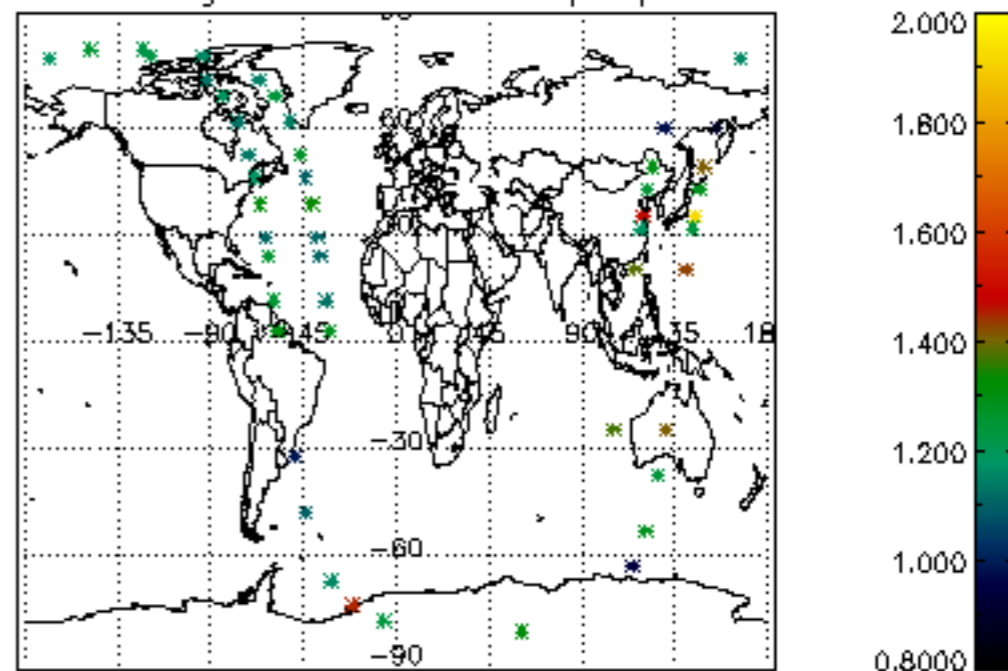




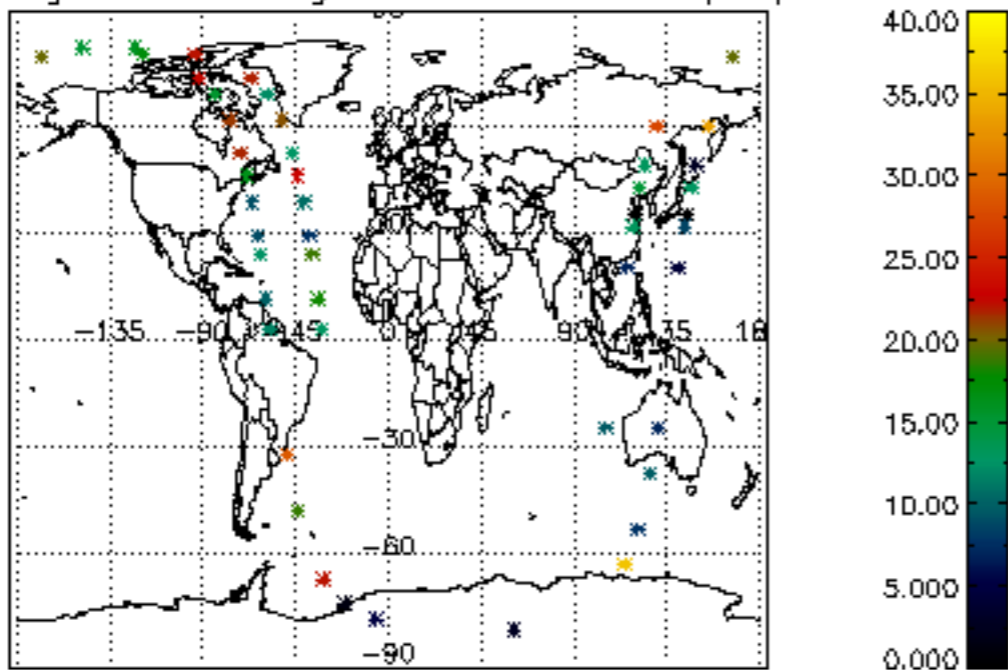
Percentage of cosmic ray hits per profile



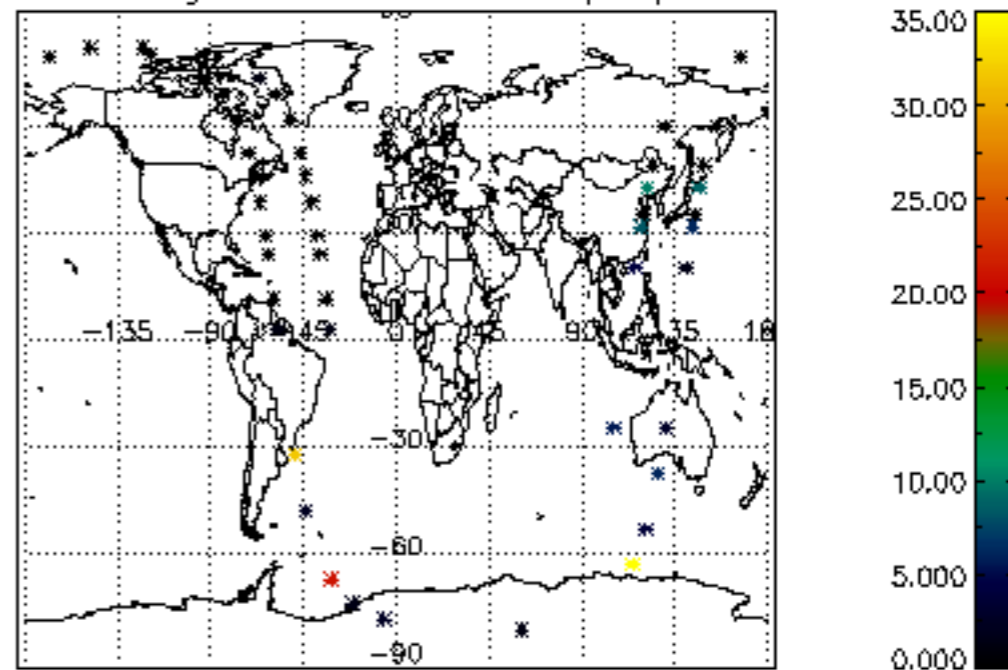
Percentage of datation errors per profile



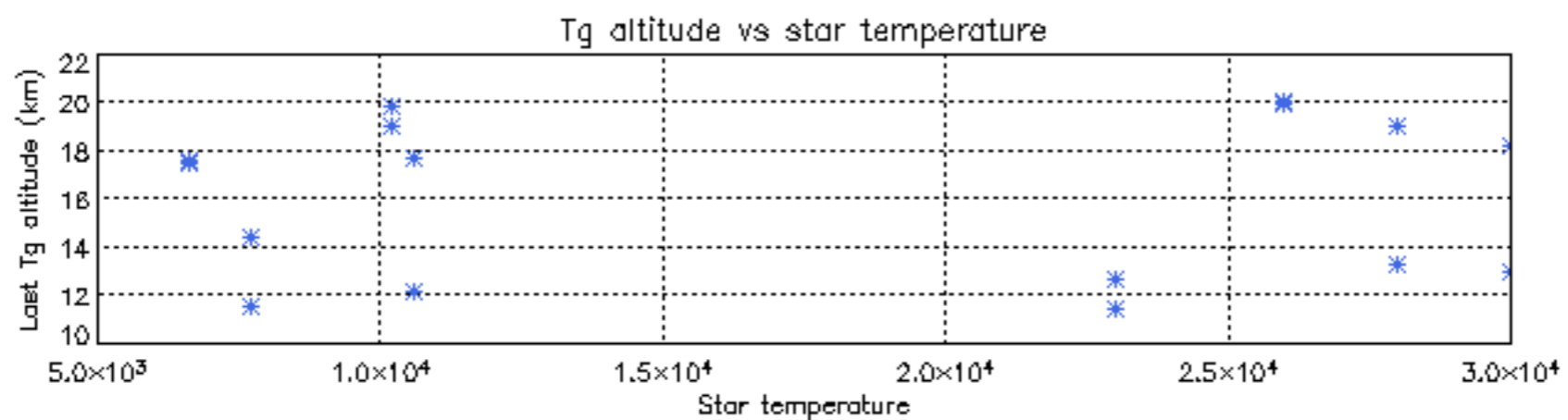
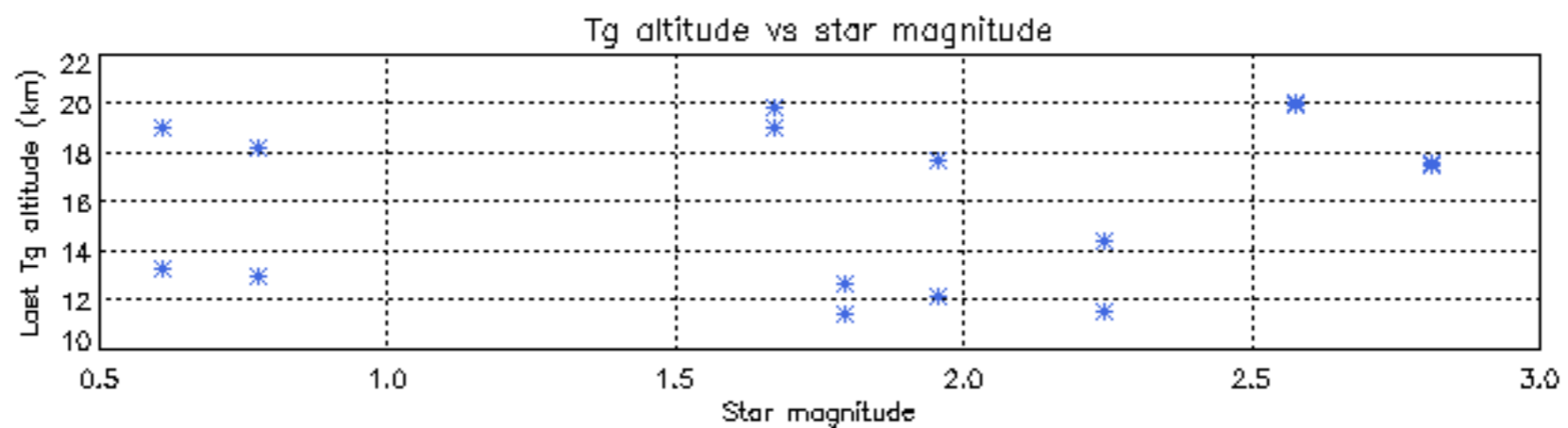
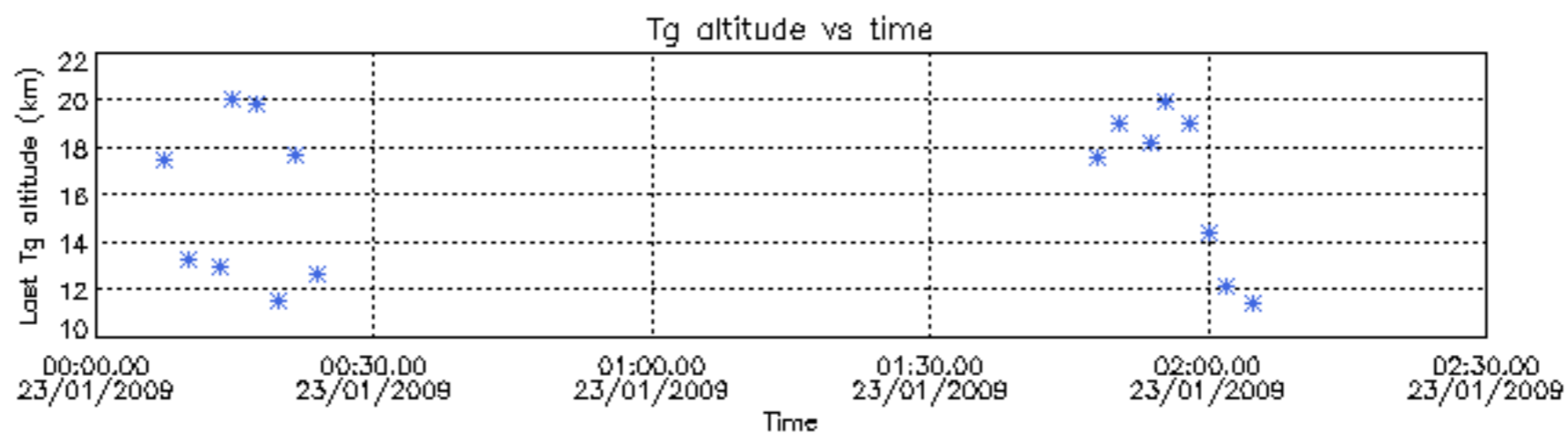
Percentage of star falling outside central band per profile



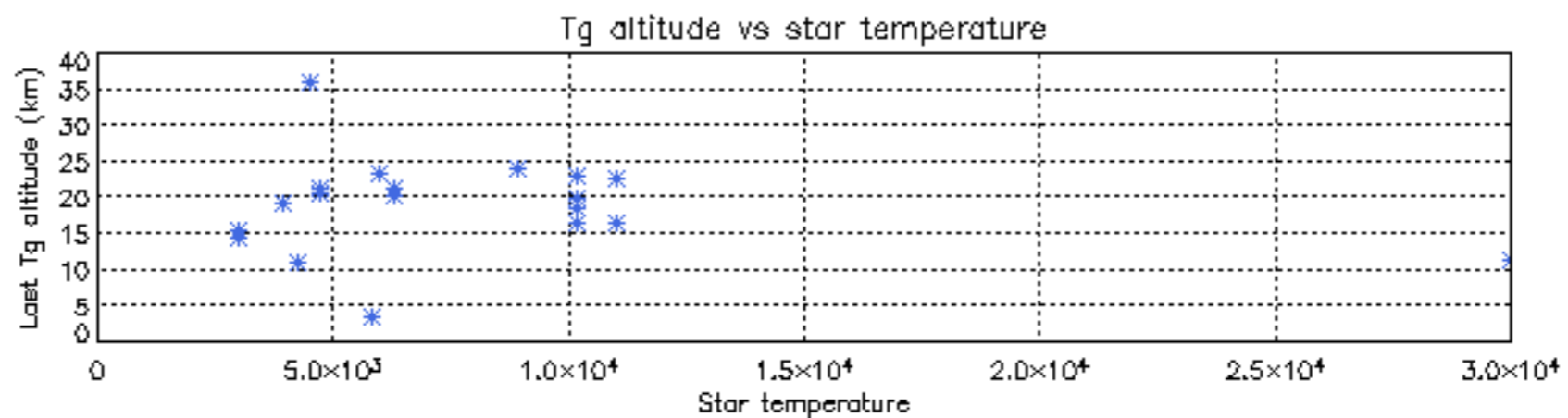
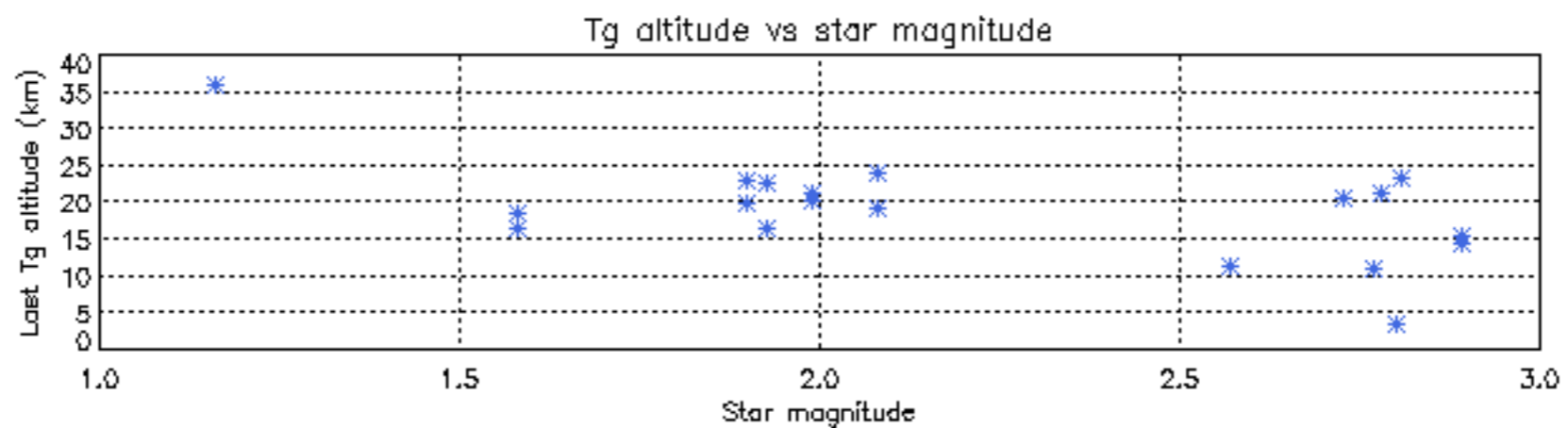
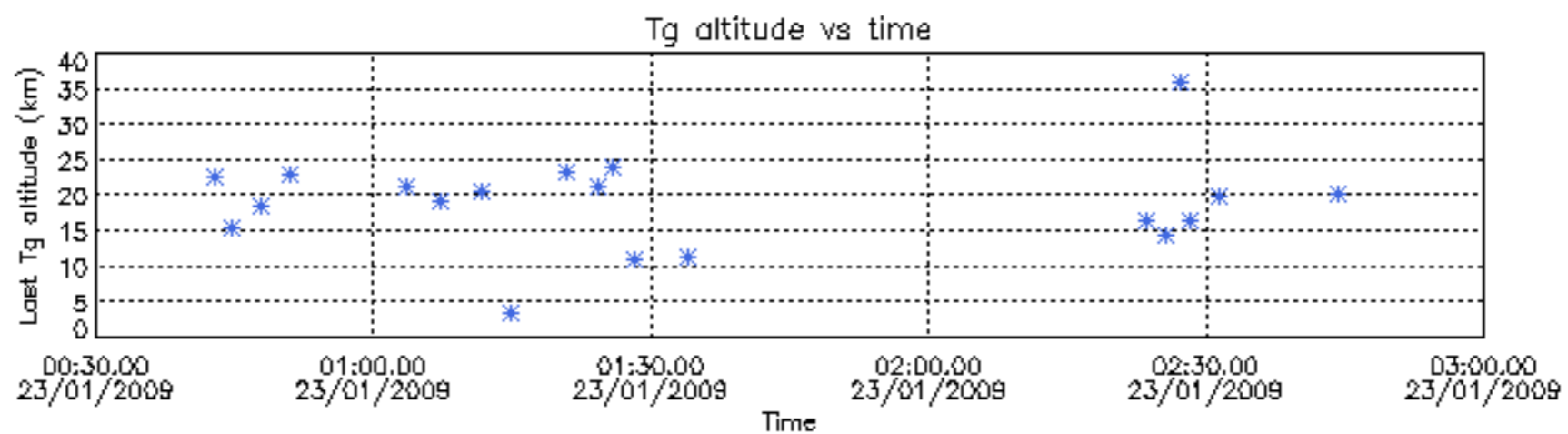
Percentage of saturation errors per profile



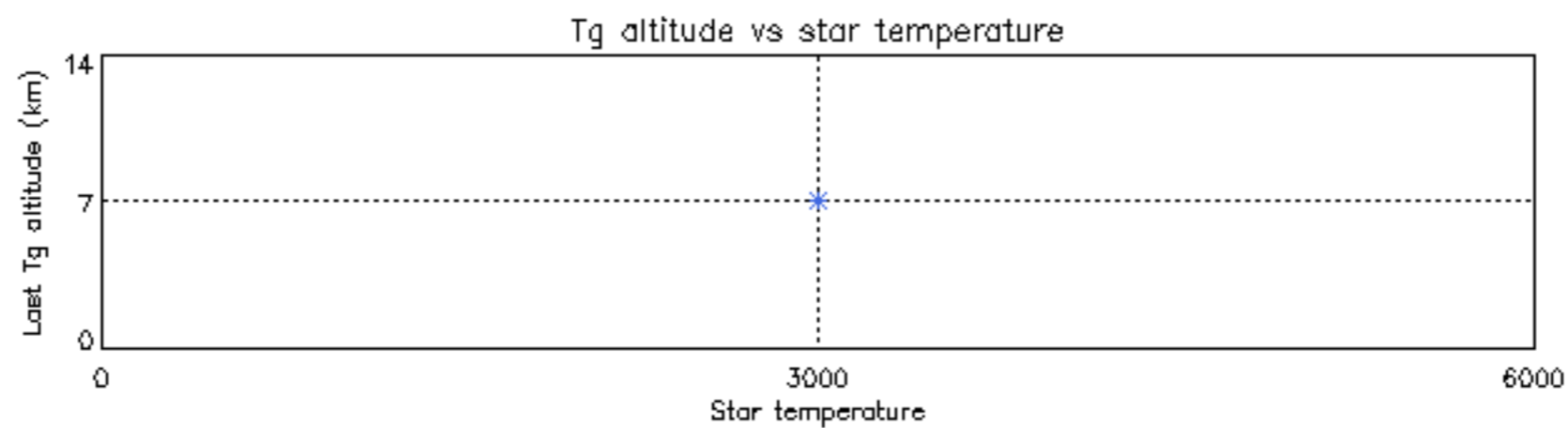
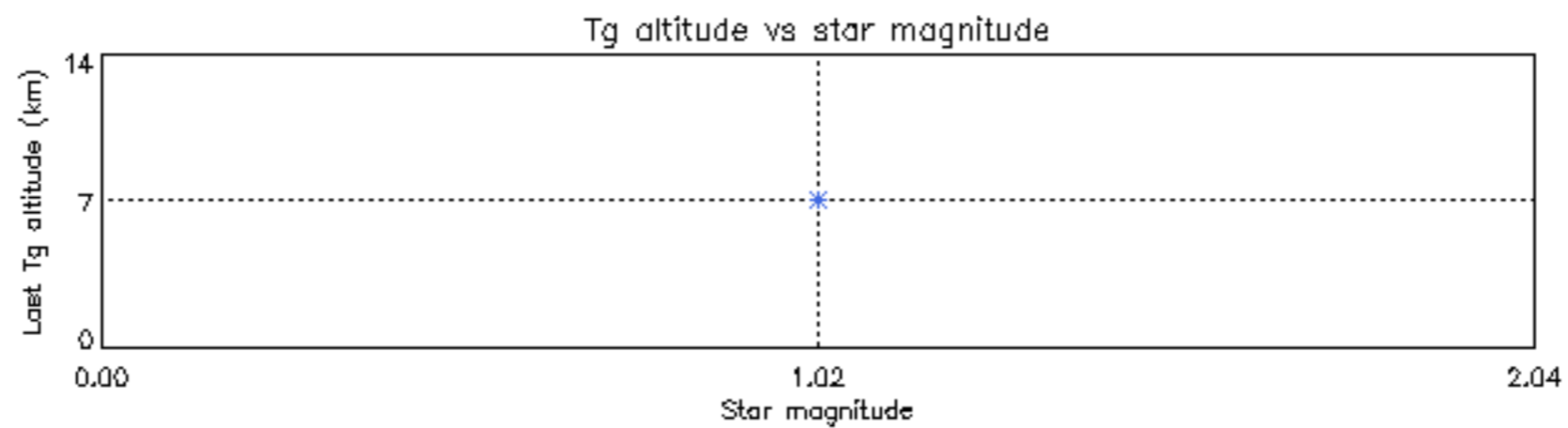
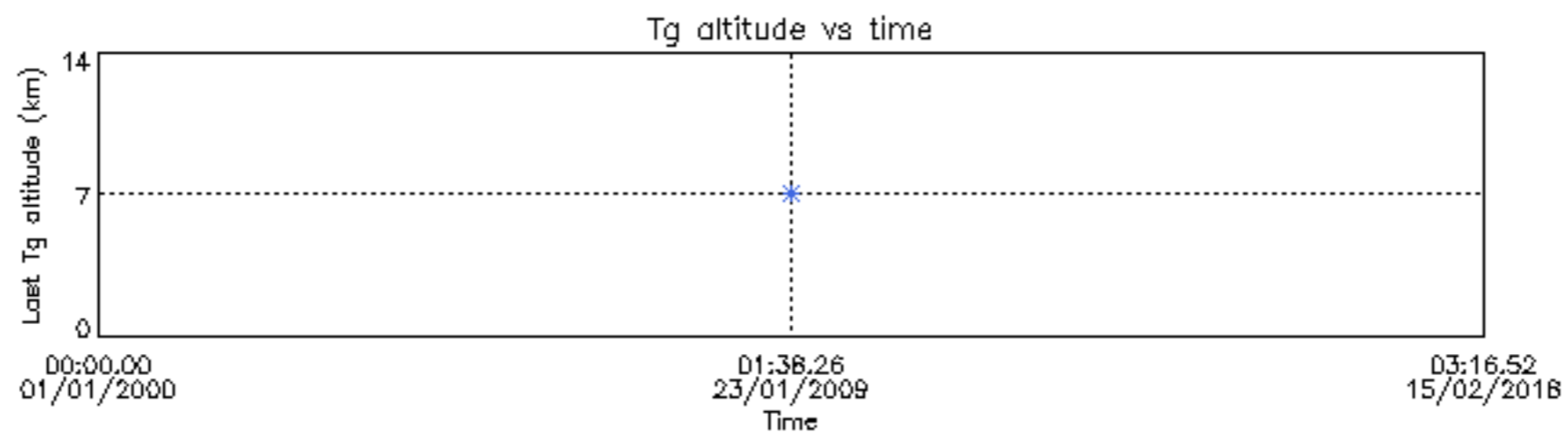
Tangent altitude at which the star is lost

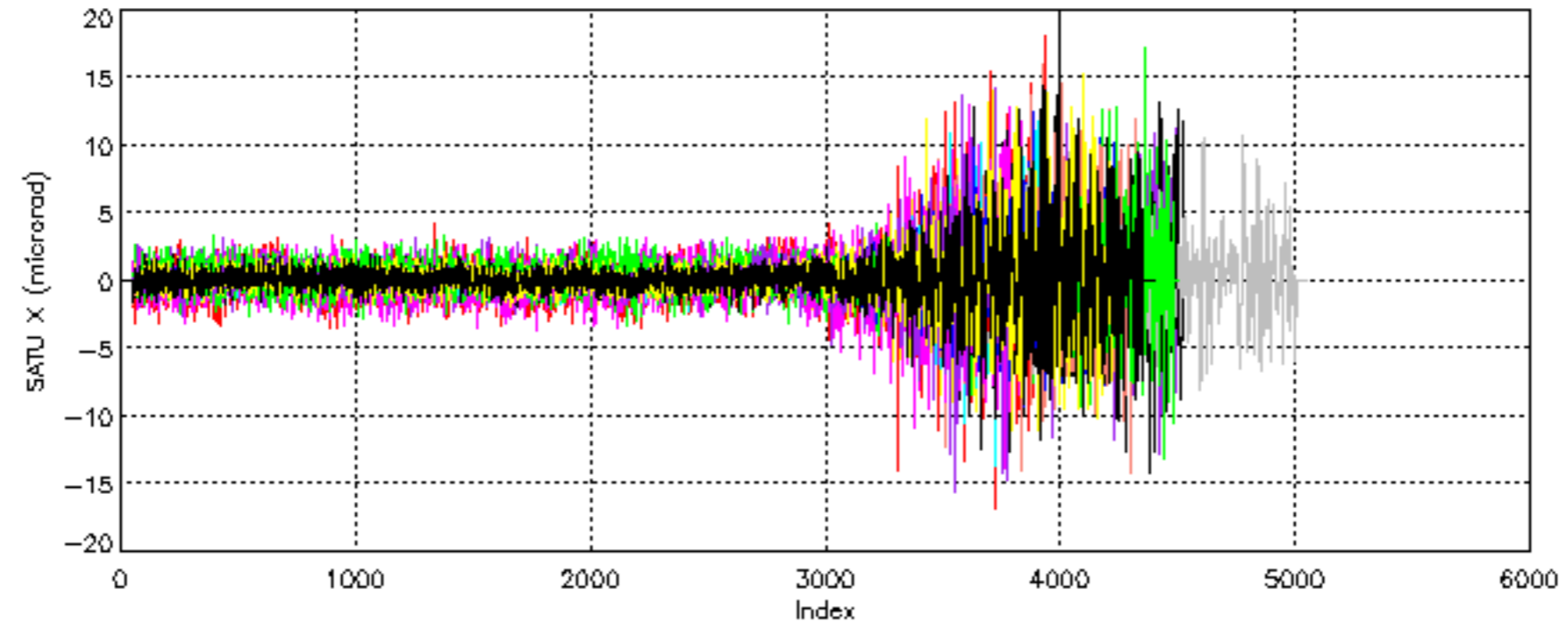


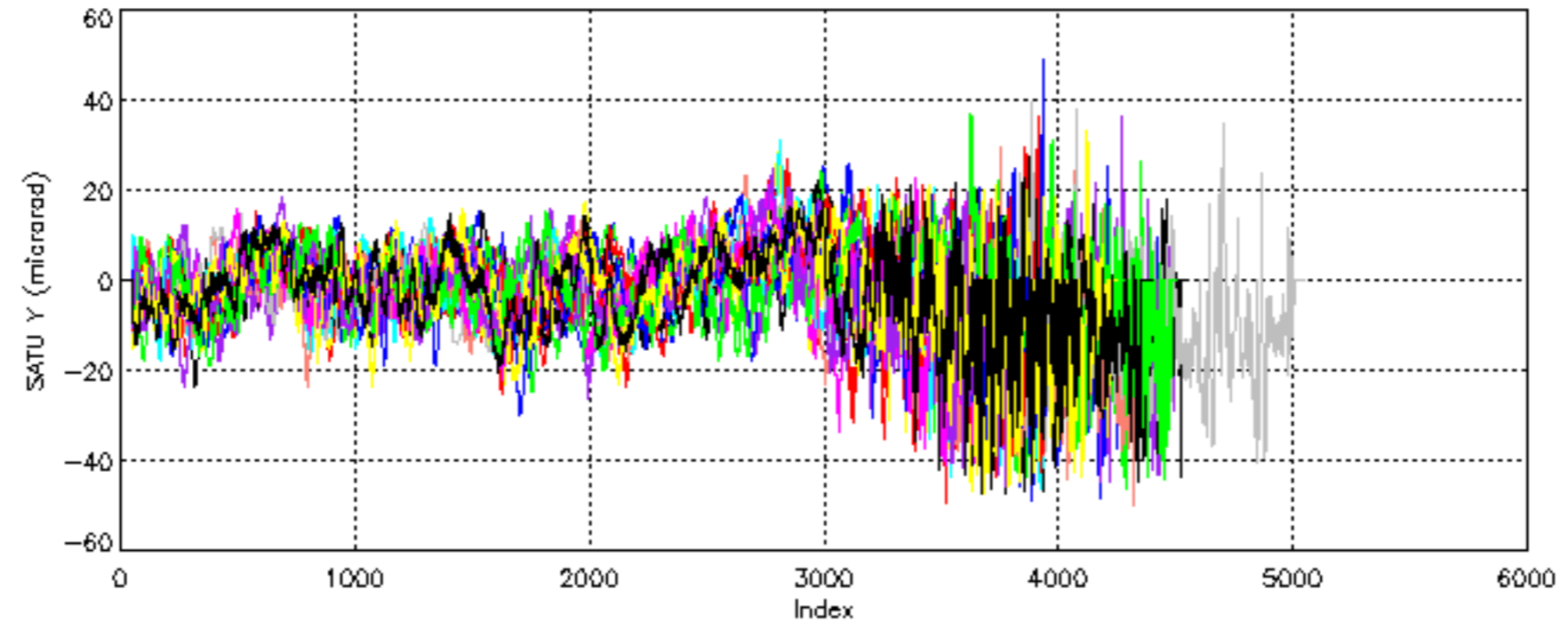
Tangent altitude at which the star is lost

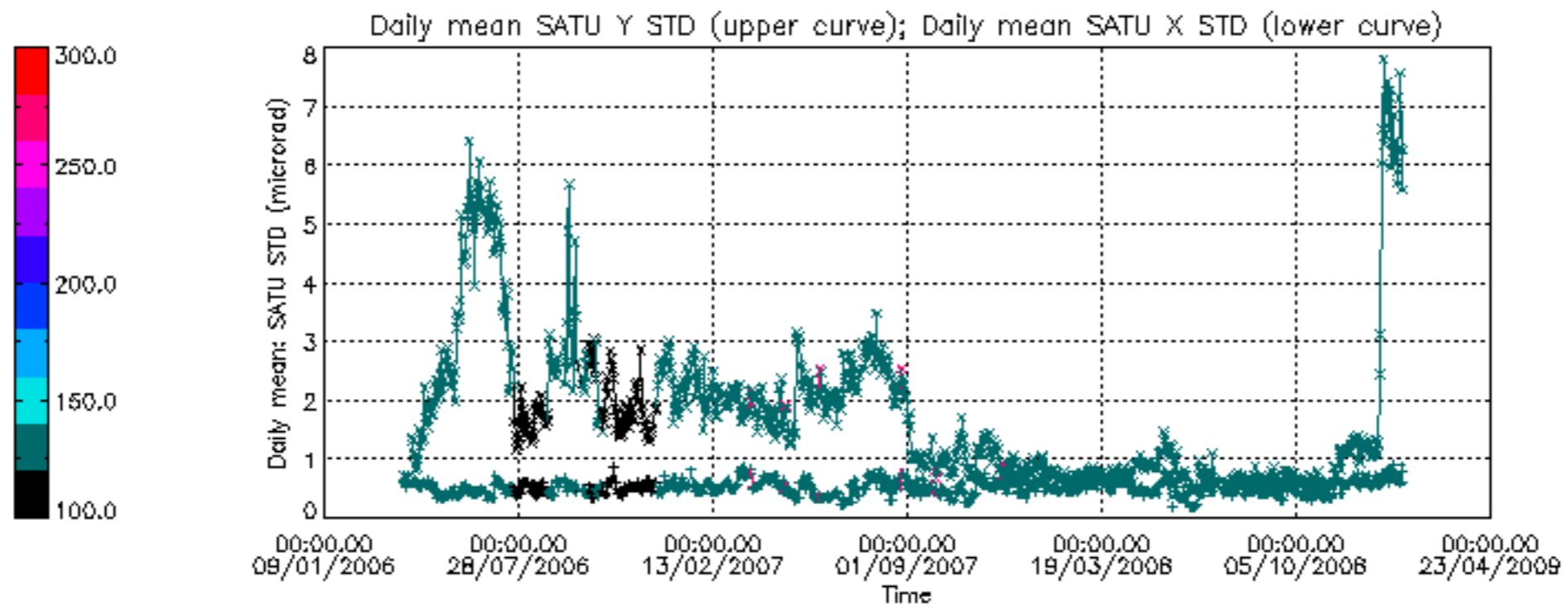


Tangent altitude at which the star is lost









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 3; 213.9; 01-JAN-2009 01:41:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35757
 4; 432.4; 01-JAN-2009 01:45:07; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;35757
 5; 548.6; 01-JAN-2009 01:47:03; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;35757
 6; 632.8; 01-JAN-2009 01:48:27; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;35757
 7; 727.3; 01-JAN-2009 01:50:02; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;35757
 8; 979.7; 01-JAN-2009 01:54:14; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;35757
 9; 1174.3; 01-JAN-2009 01:57:29; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;35757
 10; 1341.9; 01-JAN-2009 02:00:16; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;35757
 11; 1434.6; 01-JAN-2009 02:01:49; Dark ; 44.0; 179; 240mi2CMA ; 3.03; 24000;occ; 88; 0;35757
 12; 1582.1; 01-JAN-2009 02:04:16; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;35757
 13; 1770.1; 01-JAN-2009 02:07:24; Dark ; 44.0; 7; 19Bet Ori ; 0.10; 14000;occ; 88; 0;35757
 14; 1881.7; 01-JAN-2009 02:09:16; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;35757
 15; 2032.5; 01-JAN-2009 02:11:47; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;35757
 16; 2270.6; 01-JAN-2009 02:15:45; Bright; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;35757
 17; 2396.8; 01-JAN-2009 02:17:51; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35757
 18; 2472.2; 01-JAN-2009 02:19:07; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;35757
 19; 2565.7; 01-JAN-2009 02:20:40; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;35757
 20; 2692.3; 01-JAN-2009 02:22:47; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;35757
 21; 3423.1; 01-JAN-2009 02:34:57; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;35757
 22; 3690.5; 01-JAN-2009 02:39:25; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;35757

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 6; -679.6; 01-JAN-2009 03:07:11; Dark ; 46.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 92; 0;35757
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 10; 214.8; 01-JAN-2009 03:22:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35758
 11; 433.3; 01-JAN-2009 03:25:44; Dark ; 26.5; 124; The Car ; 2.76; 30000;occ; 53; 0;35758
 12; 549.2; 01-JAN-2009 03:27:39; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;35758
 13; 633.5; 01-JAN-2009 03:29:04; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;35758
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 15; 980.4; 01-JAN-2009 03:34:51; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;35758
 16; 1174.5; 01-JAN-2009 03:38:05; Dark ; 41.0; 117; Pi Pup ; 2.71; 3800;occ; 82; 0;35758
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 25; 2472.7; 01-JAN-2009 03:59:43; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;35758
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 8; -189.1; 01-JAN-2009 04:55:57; Dark ; 36.5; 78; Alp Lup ; 2.30; 28000;occ; 73; 0;35758
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 10; 42.2; 01-JAN-2009 04:59:48; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;35759
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 13; 549.6; 01-JAN-2009 05:08:16; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;35759
 14; 634.0; 01-JAN-2009 05:09:40; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;35759
 15; 728.8; 01-JAN-2009 05:11:15; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;35759

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16; 980.8; 01-JAN-2009 05:15:27; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;35759
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24; 2270.7; 01-JAN-2009 05:36:57; Bright; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;35759
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27; 2566.1; 01-JAN-2009 05:41:52; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;35759
28; 2692.6; 01-JAN-2009 05:43:59; Bright; 37.0; 6; 13Alp Aur ; 0.08; 3400;occ; 74; 0;35759
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2; 1056.1; 01-JAN-2009 20:22:06; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;35768
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5; 1436.9; 01-JAN-2009 20:28:27; Dark ; 45.0; 179; 240mi2CMa ; 3.03; 24000;occ; 90; 0;35768
6; 1583.8; 01-JAN-2009 20:30:53; Dark ; 51.5; 1; 9Alp CMa ; -1.44; 11000;occ; 103; 0;35768
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10; 2224.1; 01-JAN-2009 20:41:34; Dark ; 26.0; 44; 24Gam Gem ; 1.93; 11000;occ; 52; 0;35768
11; 2322.6; 01-JAN-2009 20:43:12; Bright; 49.5; 151; 13Mu Gem ; 2.89; 3000;occ; 99; 0;35768
12; 2472.8; 01-JAN-2009 20:45:42; Bright; 52.0; 114; 3Iot Aur ; 2.69; 4600;occ; 104; 0;35768
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15; 3423.2; 01-JAN-2009 21:01:33; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;35768
16; 3689.1; 01-JAN-2009 21:05:59; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;35768
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3; 1777.4; 04-JAN-2009 07:15:04; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;35803
4; 1885.5; 04-JAN-2009 07:16:53; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;35803
5; 2031.6; 04-JAN-2009 07:19:19; Dark ; 47.0; 14; 58Alp Ori ; 0.87; 3000;occ; 94; 0;35803
6; 2268.9; 04-JAN-2009 07:23:16; Bright; 35.5; 176; 23Zet Tau ; 3.02; 22000;occ; 71; 0;35803
7; 2396.0; 04-JAN-2009 07:25:23; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;35803
8; 2475.0; 04-JAN-2009 07:26:42; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79; 0;35803
9; 2556.9; 04-JAN-2009 07:28:04; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;35803
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11; 3423.5; 04-JAN-2009 07:42:30; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;35803
12; 3685.2; 04-JAN-2009 07:46:52; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35803
13; 3923.6; 04-JAN-2009 07:50:51; Bright; 53.0; 119; 14Eta Dra ; 2.73; 4700;occ; 106; 0;35803
14; 4056.5; 04-JAN-2009 07:53:04; Bright; 48.0; 130; 23Bet Dra ; 2.80; 5800;occ; 96; 0;35803
15; 4429.8; 04-JAN-2009 07:59:17; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;35803
16; 4555.2; 04-JAN-2009 08:01:22; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;35803
17; 4906.8; 04-JAN-2009 08:07:14; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;35803
18; 5043.0; 04-JAN-2009 08:09:30; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;35803
19; 5218.9; 04-JAN-2009 08:12:26; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;35803
20; 5385.6; 04-JAN-2009 08:15:13; Dark ; 48.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 97; 0;35803
21; 5694.3; 04-JAN-2009 08:20:21; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;35803
22; 5779.5; 04-JAN-2009 08:21:47; Dark ; 41.0; 109; Bet Lup ; 2.68; 26000;occ; 82; 0;35803
23; 5868.0; 04-JAN-2009 08:23:15; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;35803
24; 5965.2; 04-JAN-2009 08:24:52; Dark ; 43.0; 95; Zet Cen ; 2.55; 26000;occ; 86; 0;35803
25; 6052.1; 04-JAN-2009 08:26:19; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;35803
26; 6185.0; 04-JAN-2009 08:28:32; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;35803
27; 6293.7; 04-JAN-2009 08:30:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35803
28; 6493.3; 04-JAN-2009 08:33:40; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;35803
29; 6601.6; 04-JAN-2009 08:35:29; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;35803
30; 6693.5; 04-JAN-2009 08:37:01; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;35803
31; 6783.5; 04-JAN-2009 08:38:31; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;35803
32; 7027.8; 04-JAN-2009 08:42:35; Dark ; 44.0; 2; Alp Car ;-0.74; 7000;occ; 88; 0;35803
33; 7109.3; 04-JAN-2009 08:43:56; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;35803
34; 7227.1; 04-JAN-2009 08:45:54; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;35803
35; 7390.8; 04-JAN-2009 08:48:38; Dark ; 46.0; 23; 21Eps Cma ; 1.50; 26000;occ; 92; 0;35803
36; 7481.4; 04-JAN-2009 08:50:08; Dark ; 42.0; 179; 240mi2Cma ; 3.03; 24000;occ; 84; 0;35803
37; 7624.3; 04-JAN-2009 08:52:31; Dark ; 48.0; 1; 9Alp Cma ;-1.44; 11000;occ; 96; 0;35803
38; 7813.8; 04-JAN-2009 08:55:41; Dark ; 31.0; 7; 19Bet Ori ; 0.10; 14000;occ; 62; 0;35803

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2; 1885.9; 04-JAN-2009 08:57:29; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;35804
3; 2030.8; 04-JAN-2009 08:59:54; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;35804
4; 2267.9; 04-JAN-2009 09:03:51; Bright; 35.0; 176; 23Zet Tau ; 3.02; 22000;occ; 70; 0;35804
5; 2394.5; 04-JAN-2009 09:05:57; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35804
6; 2474.7; 04-JAN-2009 09:07:18; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;35804
7; 2555.3; 04-JAN-2009 09:08:38; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;35804
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9; 3423.9; 04-JAN-2009 09:23:07; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;35804
10; 3685.3; 04-JAN-2009 09:27:28; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35804
11; 3923.7; 04-JAN-2009 09:31:27; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;35804

12; 4056.8; 04-JAN-2009 09:33:40; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;35804
 13; 4430.3; 04-JAN-2009 09:39:53; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;35804
 14; 4555.8; 04-JAN-2009 09:41:59; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;35804
 15; 4906.6; 04-JAN-2009 09:47:50; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;35804
 16; 5043.1; 04-JAN-2009 09:50:06; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;35804
 17; 5219.4; 04-JAN-2009 09:53:02; Bright; 42.5; 104; 27Bet Lib ; 2.61; 13100;occ; 85; 0;35804
 18; 5386.3; 04-JAN-2009 09:55:49; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;35804
 19; 5694.8; 04-JAN-2009 10:00:58; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;35804
 20; 5780.2; 04-JAN-2009 10:02:23; Dark ; 40.0; 109; Bet Lup ; 2.68; 26000;occ; 80; 0;35804
 21; 5869.3; 04-JAN-2009 10:03:52; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;35804
 22; 5965.6; 04-JAN-2009 10:05:29; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;35804
 23; 6052.1; 04-JAN-2009 10:06:55; Dark ; 46.0; 4; Alp1Cen ;-0.01; 5800;occ; 92; 0;35804
 24; 6185.7; 04-JAN-2009 10:09:09; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;35804
 25; 6294.6; 04-JAN-2009 10:10:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35804
 26; 6493.6; 04-JAN-2009 10:14:17; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;35804
 27; 6602.2; 04-JAN-2009 10:16:05; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;35804
 28; 6694.1; 04-JAN-2009 10:17:37; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;35804
 29; 6784.0; 04-JAN-2009 10:19:07; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;35804
 30; 7027.7; 04-JAN-2009 10:23:11; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;35804
 31; 7110.3; 04-JAN-2009 10:24:33; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;35804
 32; 7227.1; 04-JAN-2009 10:26:30; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35804
 33; 7390.8; 04-JAN-2009 10:29:14; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;35804
 34; 7481.2; 04-JAN-2009 10:30:44; Dark ; 42.0; 179; 240mi2CMa ; 3.03; 24000;occ; 84; 0;35804
 35; 7624.4; 04-JAN-2009 10:33:07; Dark ; 53.0; 1; 9Alp CMa ;-1.44; 11000;occ; 106; 0;35804

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 2; 1778.0; 04-JAN-2009 10:36:17; Dark ; 42.5; 7; 19Bet Ori ; 0.10; 14000;occ; 85; 0;35805
 3; 1885.6; 04-JAN-2009 10:38:04; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;35805
 4; 2031.5; 04-JAN-2009 10:40:30; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;35805
 5; 2269.3; 04-JAN-2009 10:44:28; Bright; 34.5; 176; 23Zet Tau ; 3.02; 22000;occ; 69; 0;35805
 6; 2395.0; 04-JAN-2009 10:46:34; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;35805
 7; 2475.1; 04-JAN-2009 10:47:54; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;35805
 8; 2555.3; 04-JAN-2009 10:49:14; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;35805
 9; 2689.5; 04-JAN-2009 10:51:28; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;35805
 10; 3423.8; 04-JAN-2009 11:03:43; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;35805
 11; 3685.0; 04-JAN-2009 11:08:04; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35805
 12; 3923.6; 04-JAN-2009 11:12:02; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;35805
 13; 4057.1; 04-JAN-2009 11:14:16; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;35805
 14; 4430.3; 04-JAN-2009 11:20:29; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87; 0;35805
 15; 4555.4; 04-JAN-2009 11:22:34; Bright; 40.5; 67; 5Alp CrB ; 2.22; 11000;occ; 81; 0;35805
 16; 4907.1; 04-JAN-2009 11:28:26; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;35805
 17; 5043.7; 04-JAN-2009 11:30:43; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;35805
 18; 5219.9; 04-JAN-2009 11:33:39; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;35805
 19; 5387.3; 04-JAN-2009 11:36:26; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;35805
 20; 5695.0; 04-JAN-2009 11:41:34; Dark ; 39.5; 131; Gam Lup ; 2.80; 26000;occ; 79; 0;35805
 21; 5780.7; 04-JAN-2009 11:43:00; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;35805
 22; 5869.1; 04-JAN-2009 11:44:28; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;35805
 23; 5966.9; 04-JAN-2009 11:46:06; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;35805
 24; 6052.7; 04-JAN-2009 11:47:32; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;35805
 25; 6186.3; 04-JAN-2009 11:49:45; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;35805
 26; 6295.5; 04-JAN-2009 11:51:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35805
 27; 6494.3; 04-JAN-2009 11:54:53; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;35805
 28; 6602.6; 04-JAN-2009 11:56:41; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;35805
 29; 6694.9; 04-JAN-2009 11:58:14; Dark ; 49.0; 71; Iot Car ; 2.25; 7700;occ; 98; 0;35805
 30; 6785.0; 04-JAN-2009 11:59:44; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;35805
 31; 7028.2; 04-JAN-2009 12:03:47; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;35805
 32; 7110.5; 04-JAN-2009 12:05:09; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;35805
 33; 7227.8; 04-JAN-2009 12:07:07; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35805
 34; 7391.0; 04-JAN-2009 12:09:50; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0;35805
 35; 7481.4; 04-JAN-2009 12:11:20; Dark ; 43.0; 179; 240mi2CMa ; 3.03; 24000;occ; 86; 0;35805

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 4; 1885.0; 04-JAN-2009 12:18:40; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;35806
 5; 2031.2; 04-JAN-2009 12:21:06; Dark ; 51.0; 14; 58Alp Ori ; 0.87; 3000;occ; 102; 0;35806
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 7; 2394.8; 04-JAN-2009 12:27:10; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;35806

8; 2474.8; 04-JAN-2009 12:28:30; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;35806
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12; 3684.8; 04-JAN-2009 12:48:39; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;35806
13; 3923.8; 04-JAN-2009 12:52:39; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;35806
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15; 4430.3; 04-JAN-2009 13:01:05; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;35806
16; 4555.6; 04-JAN-2009 13:03:10; Bright; 56.0; 67; 5Alp CrB ; 2.22; 11000;occ; 112; 0;35806
17; 4907.4; 04-JAN-2009 13:09:02; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;35806
18; 5043.6; 04-JAN-2009 13:11:18; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;35806
19; 5220.2; 04-JAN-2009 13:14:15; Bright; 45.5; 104; 27Bet Lib ; 2.61; 13100;occ; 91; 0;35806
20; 5387.7; 04-JAN-2009 13:17:02; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;35806
21; 5695.5; 04-JAN-2009 13:22:10; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;35806
22; 5780.5; 04-JAN-2009 13:23:35; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;35806
23; 5870.0; 04-JAN-2009 13:25:05; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;35806
24; 5967.2; 04-JAN-2009 13:26:42; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;35806
25; 6052.8; 04-JAN-2009 13:28:08; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;35806
26; 6187.3; 04-JAN-2009 13:30:22; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;35806
27; 6296.4; 04-JAN-2009 13:32:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35806
28; 6494.7; 04-JAN-2009 13:35:29; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;35806
29; 6602.6; 04-JAN-2009 13:37:17; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;35806
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31; 6785.2; 04-JAN-2009 13:40:20; Dark ; 43.0; 41; Eps Car ; 1.86; 4100;occ; 86; 0;35806
32; 7028.6; 04-JAN-2009 13:44:23; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;35806
33; 7110.7; 04-JAN-2009 13:45:45; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;35806
34; 7228.2; 04-JAN-2009 13:47:43; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;35806
35; 7391.4; 04-JAN-2009 13:50:26; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0;35806
36; 7481.3; 04-JAN-2009 13:51:56; Dark ; 43.5; 179; 240mi2Cma ; 3.03; 24000;occ; 87; 0;35806

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7; 2394.6; 04-JAN-2009 14:07:45; Bright; 39.0; 28; 12Bet Tau ; 1.65; 15200;occ; 78; 0;35807
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9; 2555.2; 04-JAN-2009 14:10:26; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;35807
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11; 3423.9; 04-JAN-2009 14:24:55; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;35807
12; 3684.9; 04-JAN-2009 14:29:15; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35807
13; 3924.0; 04-JAN-2009 14:33:15; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;35807
14; 4057.5; 04-JAN-2009 14:35:28; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;35807
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 34; 3423.6; 05-JAN-2009 05:30:18; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;35816

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 23; 2395.6; 08-JAN-2009 23:45:30; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;35870
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 27; 3676.4; 09-JAN-2009 00:06:50; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;35870
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 33; 5063.6; 09-JAN-2009 00:29:58; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;35870
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 18; 5089.7; 13-JAN-2009 21:52:18; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;35940
 19; 5172.7; 13-JAN-2009 21:53:41; Bright; 52.5; 98; 13Zet Oph ; 2.57; 30000;occ; 105; 0;35940

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 16; 1472.1; 13-JAN-2009 22:32:37; Dark ; 40.5; 179; 240mi2CMA ; 3.03; 24000;occ; 81; 0;35941
 17; 1606.1; 13-JAN-2009 22:34:51; Dark ; 51.0; 1; 9Alp CMA ;-1.44; 11000;occ; 102; 0;35941
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 21; 2672.3; 13-JAN-2009 22:52:37; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;35941
 22; 3424.8; 13-JAN-2009 23:05:09; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;35941
 23; 3666.2; 13-JAN-2009 23:09:11; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;35941
 24; 3922.7; 13-JAN-2009 23:13:27; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;35941
 25; 4074.7; 13-JAN-2009 23:15:59; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;35941
 26; 4450.4; 13-JAN-2009 23:22:15; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;35941
 27; 4635.5; 13-JAN-2009 23:25:20; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;35941
 28; 4961.4; 13-JAN-2009 23:30:46; Bright; 61.0; 102; 24Alp Ser ; 2.60; 4250;occ; 122; 0;35941
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 30; 5172.9; 13-JAN-2009 23:34:17; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;35941
 31; 5305.1; 13-JAN-2009 23:36:30; Dark ; 32.0; 104; 27Bet Lib ; 2.61; 13100;occ; 64; 0;35941

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 13; -58.5; 13-JAN-2009 07:01:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;35931
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 23; 1384.6; 13-JAN-2009 07:25:46; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;35932
 24; 1470.4; 13-JAN-2009 07:27:12; Dark ; 41.0; 179; 240mi2CMA ; 3.03; 24000;occ; 82; 0;35932
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 23; 6361.5; 13-JAN-2009 08:48:43; Dark ; 46.5; 12; Alp1Cru ; 0.77; 30000;occ; 93; 0;35932
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 30; 7266.2; 13-JAN-2009 09:03:47; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;35932
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 32; 7506.6; 13-JAN-2009 09:07:48; Dark ; 42.0; 179; 240mi2CMA ; 3.03; 24000;occ; 84; 0;35932
 33; 7641.3; 13-JAN-2009 09:10:02; Dark ; 43.5; 1; 9Alp CMa ; -1.44; 11000;occ; 87; 0;35932

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 23; 3424.7; 14-JAN-2009 00:45:45; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;35942
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 27; 4450.8; 14-JAN-2009 01:02:51; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;35942
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 29; 4961.9; 14-JAN-2009 01:11:22; Bright; 61.0; 102; 24Alp Ser ; 2.60; 4250;occ; 122; 0;35942
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 31; 5173.9; 14-JAN-2009 01:14:54; Bright; 53.0; 98; 13Zet Oph ; 2.57; 30000;occ; 106; 0;35942
 32; 5305.8; 14-JAN-2009 01:17:06; Dark ; 50.0; 104; 27Bet Lib ; 2.61; 13100;occ; 100; 0;35942

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27; 7034.1; 13-JAN-2009 10:40:31; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;35933
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 23; 6265.3; 24-JAN-2009 09:41:42; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;36090
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 27; 6822.3; 24-JAN-2009 09:50:59; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;36090
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 31; 7302.6; 24-JAN-2009 09:58:59; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;36090
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 33; 7534.6; 24-JAN-2009 10:02:51; Dark ; 39.0; 179; 240mi2CMa ; 3.03; 24000;occ; 78; 0;36090
 34; 7663.6; 24-JAN-2009 10:05:00; Dark ; 41.5; 1; 9Alp CMa ;-1.44; 11000;occ; 83; 0;36090

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 33; 7535.2; 24-JAN-2009 11:43:28; Dark ; 36.5; 179; 240mi2CMa ; 3.03; 24000;occ; 73; 0;36091

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