

GOMOS Daily Report 17-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	20JAN2009 05:45:38
Data source version	GOMOS/5.00
Start time of products	17JAN2009 00:00:19
Stop time of products	17JAN2009 02:32:06
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

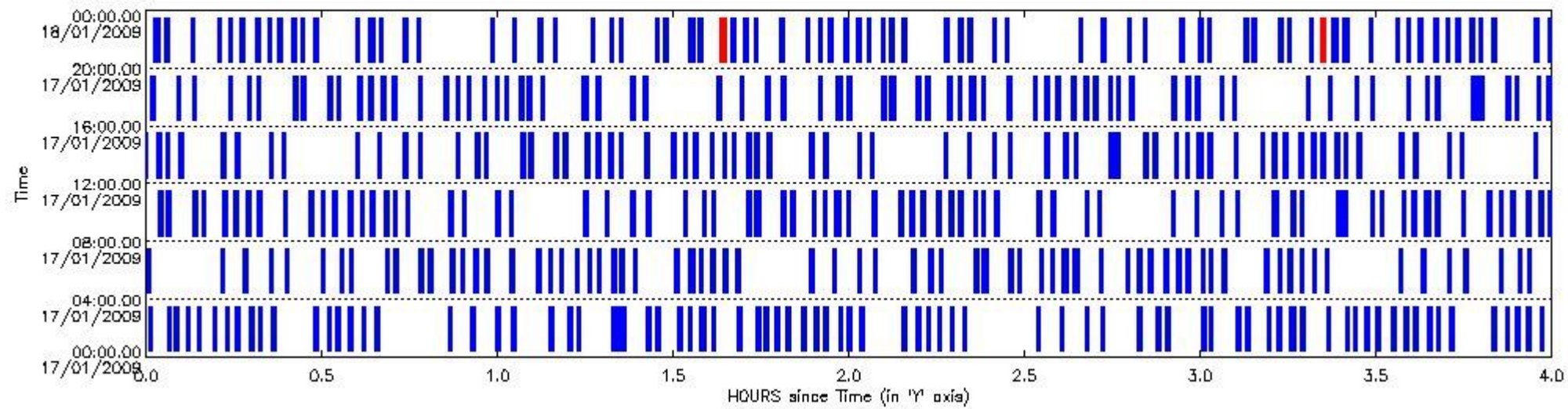
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

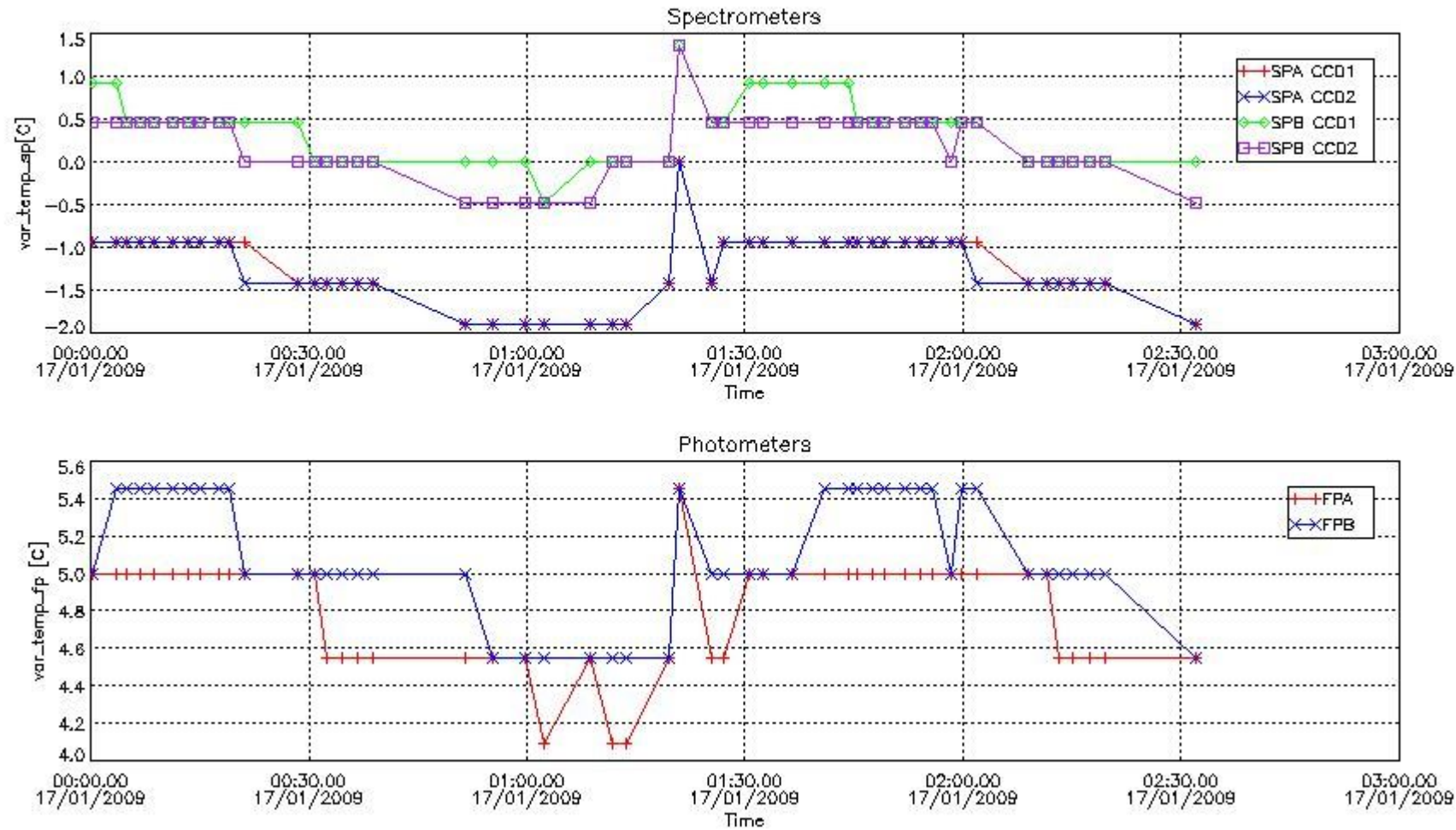
UTC start time	Star name	Star ID	Orbit
17-JAN-2009 21:38:01	GamLup	131	35997
17-JAN-2009 23:20:28	BetLup	109	35998

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_1PNPDE20090117_000019_000000442075_00360_35985_0209.N1	17-JAN-2009 00:00:19	Dark	44.000	12	Alp1Cru	0.77500	30000.	88	35985	No
2	GOM_TRA_1PNPDE20090117_000332_000000402075_00360_35985_0210.N1	17-JAN-2009 00:03:32	Dark	40.000	124	The Car	2.7640	30000.	80	35985	No
3	GOM_TRA_1PNPDE20090117_000450_000000412075_00360_35985_0211.N1	17-JAN-2009 00:04:50	Dark	41.000	29	Bet Car	1.6720	10200.	82	35985	No
4	GOM_TRA_1PNPDE20090117_000648_000000402075_00360_35985_0212.N1	17-JAN-2009 00:06:48	Dark	39.500	71	lot Car	2.2460	7700.0	79	35985	No
5	GOM_TRA_1PNPDE20090117_000839_000000392075_00360_35985_0213.N1	17-JAN-2009 00:08:39	Dark	38.500	46	Del Vel	1.9540	10600.	77	35985	No
6	GOM_TRA_1PNPDE20090117_001121_000000432075_00360_35985_0214.N1	17-JAN-2009 00:11:21	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	35985	No
7	GOM_TRA_1PNPDE20090117_001330_000000432075_00360_35985_0215.N1	17-JAN-2009 00:13:30	Dark	43.000	70	Zet Pup	2.2460	39000.	86	35985	No
8	GOM_TRA_1PNPDE20090117_001508_000000442075_00360_35985_0216.N1	17-JAN-2009 00:15:08	Straylight	44.000	117	Pi Pup	2.7060	3800.0	88	35985	No
9	GOM_TRA_1PNPDE20090117_001740_000000442075_00360_35985_0217.N1	17-JAN-2009 00:17:40	Straylight	43.500	23	21Eps CMa	1.5020	26000.	87	35985	No

10	GOM_TRA_1PNPDE20090117_001904_000000402075_00360_35985_0218.N1	17-JAN-2009 00:19:04	Straylight	40.000	179	24Omi2CMa	3.0320	24000.	80	35985	No
11	GOM_TRA_1PNPDE20090117_002117_000000442075_00360_35985_0219.N1	17-JAN-2009 00:21:17	Straylight	44.000	1	9Alp CMa	-1.4400	11000.	88	35985	No
12	GOM_TRA_1PNPDE20090117_002826_000000522075_00360_35985_0220.N1	17-JAN-2009 00:28:26	Tw_i_and_stray	52.000	14	58Alp Ori	0.87000	3000.0	104	35985	No
13	GOM_TRA_1PNPDE20090117_003052_000000422075_00360_35985_0221.N1	17-JAN-2009 00:30:52	Bright	42.000	44	24Gam Gem	1.9280	11000.	84	35985	No
14	GOM_TRA_1PNPDE20090117_003223_000000362075_00360_35985_0222.N1	17-JAN-2009 00:32:23	Bright	36.000	176	23Zet Tau	3.0200	22000.	72	35985	No
15	GOM_TRA_1PNPDE20090117_003433_000000362075_00360_35985_0223.N1	17-JAN-2009 00:34:33	Bright	35.500	28	12Bet Tau	1.6500	15200.	71	35985	No
16	GOM_TRA_1PNPDE20090117_003645_000000372075_00360_35985_0224.N1	17-JAN-2009 00:36:45	Bright	36.500	107	37The Aur	2.6490	11000.	73	35985	No
17	GOM_TRA_1PNPDE20090117_003856_000000502075_00360_35985_0225.N1	17-JAN-2009 00:38:56	Bright	50.000	42	34Bet Aur	1.9000	10200.	100	35985	No
18	GOM_TRA_1PNPDE20090117_005130_000000352075_00360_35985_0226.N1	17-JAN-2009 00:51:30	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	35985	No
19	GOM_TRA_1PNPDE20090117_005524_000000382075_00360_35985_0227.N1	17-JAN-2009 00:55:24	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	35985	No
20	GOM_TRA_1PNPDE20090117_005945_000000402075_00360_35985_0228.N1	17-JAN-2009 00:59:45	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	35985	No
21	GOM_TRA_1PNPDE20090117_010223_000000402075_00360_35985_0229.N1	17-JAN-2009 01:02:23	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	35985	No
22	GOM_TRA_1PNPDE20090117_010842_000000552075_00360_35985_0230.N1	17-JAN-2009 01:08:42	Bright	55.000	133	40Zet Her	2.8070	6000.0	110	35985	No
23	GOM_TRA_1PNPDE20090117_011150_000000562075_00360_35985_0231.N1	17-JAN-2009 01:11:50	Bright	56.000	127	27Bet Her	2.7810	4700.0	112	35985	No
24	GOM_TRA_1PNPDE20090117_011331_000000342075_00360_35985_0232.N1	17-JAN-2009 01:13:31	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	35985	No
25	GOM_TRA_1PNPDE20090117_011934_000000572075_00360_35985_0233.N1	17-JAN-2009 01:19:34	Bright	57.000	120	1Del Oph	2.7340	3200.0	114	35985	No
26	GOM_TRA_1PNPDE20090117_012054_000000542075_00360_35985_0379.N1	17-JAN-2009 01:20:54	Bright	54.000	98	13Zet Oph	2.5710	30000.	108	35985	Yes
27	GOM_TRA_1PNPDE20090117_012522_000000432075_00360_35985_0380.N1	17-JAN-2009 01:25:22	Tw_i_and_stray	42.500	16	21Alp Sco	1.0200	3000.0	85	35985	No
28	GOM_TRA_1PNPDE20090117_012701_000000412075_00360_35985_0381.N1	17-JAN-2009 01:27:01	Twilight	41.000	75	26Eps Sco	2.2910	4250.0	82	35985	No
29	GOM_TRA_1PNPDE20090117_013041_000000422075_00360_35985_0382.N1	17-JAN-2009 01:30:41	Dark	41.500	131	Gam Lup	2.8000	26000.	83	35985	No
30	GOM_TRA_1PNPDE20090117_013229_000000432075_00360_35985_0383.N1	17-JAN-2009 01:32:29	Dark	43.000	109	Bet Lup	2.6770	26000.	86	35985	No
31	GOM_TRA_1PNPDE20090117_013630_000000422075_00361_35986_0384.N1	17-JAN-2009 01:36:30	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	35986	No
32	GOM_TRA_1PNPDE20090117_014055_000000432075_00361_35986_0385.N1	17-JAN-2009 01:40:55	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	35986	No
33	GOM_TRA_1PNPDE20090117_014408_000000392075_00361_35986_0386.N1	17-JAN-2009 01:44:08	Dark	38.500	124	The Car	2.7640	30000.	77	35986	No
34	GOM_TRA_1PNPDE20090117_014526_000000452075_00361_35986_0387.N1	17-JAN-2009 01:45:26	Dark	44.500	29	Bet Car	1.6720	10200.	89	35986	No
35	GOM_TRA_1PNPDE20090117_014724_000000432075_00361_35986_0388.N1	17-JAN-2009 01:47:24	Dark	42.500	71	lot Car	2.2460	7700.0	85	35986	No
36	GOM_TRA_1PNPDE20090117_014916_000000432075_00361_35986_0389.N1	17-JAN-2009 01:49:16	Dark	43.000	46	Del Vel	1.9540	10600.	86	35986	No
37	GOM_TRA_1PNPDE20090117_015158_000000432075_00361_35986_0390.N1	17-JAN-2009 01:51:58	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	35986	No
38	GOM_TRA_1PNPDE20090117_015406_000000432075_00361_35986_0391.N1	17-JAN-2009 01:54:06	Dark	42.500	70	Zet Pup	2.2460	39000.	85	35986	No
39	GOM_TRA_1PNPDE20090117_015544_000000452075_00361_35986_0392.N1	17-JAN-2009 01:55:44	Straylight	45.000	117	Pi Pup	2.7060	3800.0	90	35986	No
40	GOM_TRA_1PNPDE20090117_015816_000000422075_00361_35986_0393.N1	17-JAN-2009 01:58:16	Straylight	41.500	23	21Eps CMa	1.5020	26000.	83	35986	No
41	GOM_TRA_1PNPDE20090117_015941_000000402075_00361_35986_0394.N1	17-JAN-2009 01:59:41	Straylight	40.000	179	24Omi2CMa	3.0320	24000.	80	35986	No
42	GOM_TRA_1PNPDE20090117_020153_000000462075_00361_35986_0395.N1	17-JAN-2009 02:01:53	Straylight	46.000	1	9Alp CMa	-1.4400	11000.	92	35986	No
43	GOM_TRA_1PNPDE20090117_020902_000000522075_00361_35986_0396.N1	17-JAN-2009 02:09:02	Tw_i_and_stray	52.000	14	58Alp Ori	0.87000	3000.0	104	35986	No
44	GOM_TRA_1PNPDE20090117_021128_000000442075_00361_35986_0397.N1	17-JAN-2009 02:11:28	Bright	43.500	44	24Gam Gem	1.9280	11000.	87	35986	No
45	GOM_TRA_1PNPDE20090117_021312_000000392075_00361_35986_0398.N1	17-JAN-2009 02:13:12	Bright	39.000	151	13Mu Gem	2.8900	3000.0	78	35986	No
46	GOM_TRA_1PNPDE20090117_021510_000000372075_00361_35986_0399.N1	17-JAN-2009 02:15:10	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	35986	No
47	GOM_TRA_1PNPDE20090117_021721_000000372075_00361_35986_0400.N1	17-JAN-2009 02:17:21	Bright	37.000	107	37The Aur	2.6490	11000.	74	35986	No
48	GOM_TRA_1PNPDE20090117_021932_000000362075_00361_35986_0401.N1	17-JAN-2009 02:19:32	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	35986	No
49	GOM_TRA_1PNPDE20090117_023206_000000372075_00361_35986_0402.N1	17-JAN-2009 02:32:06	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	35986	No

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



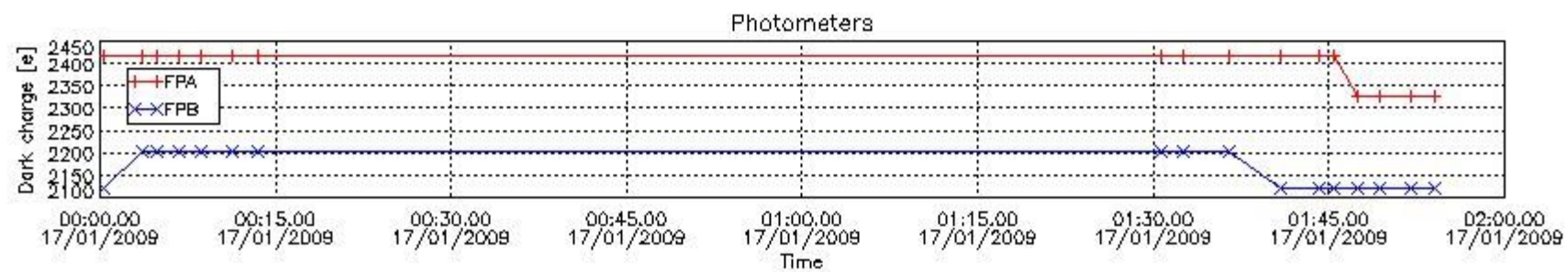
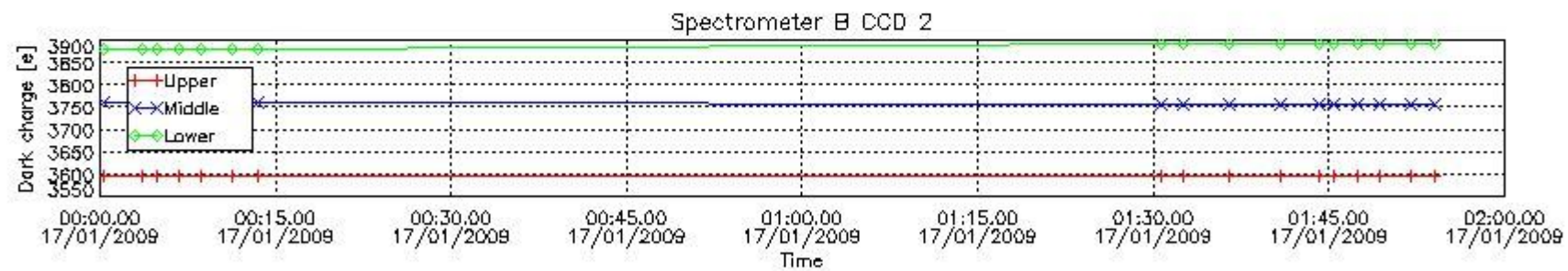
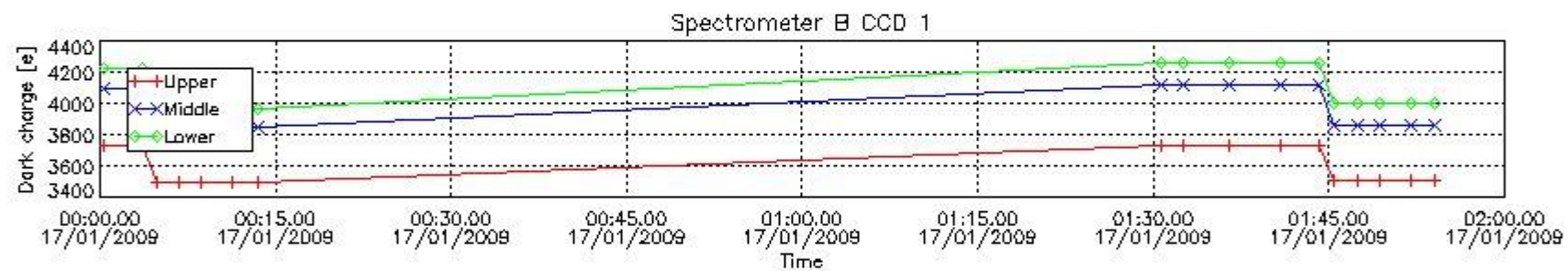
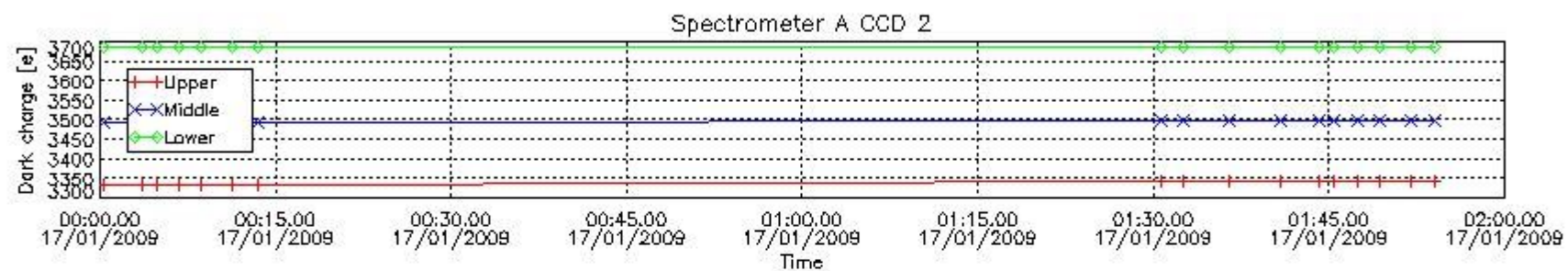
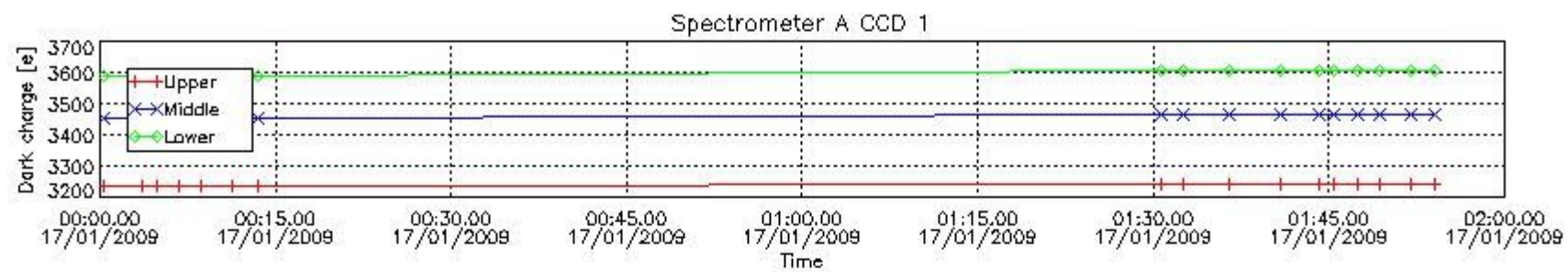
4. Overview of dark signal processing per product

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



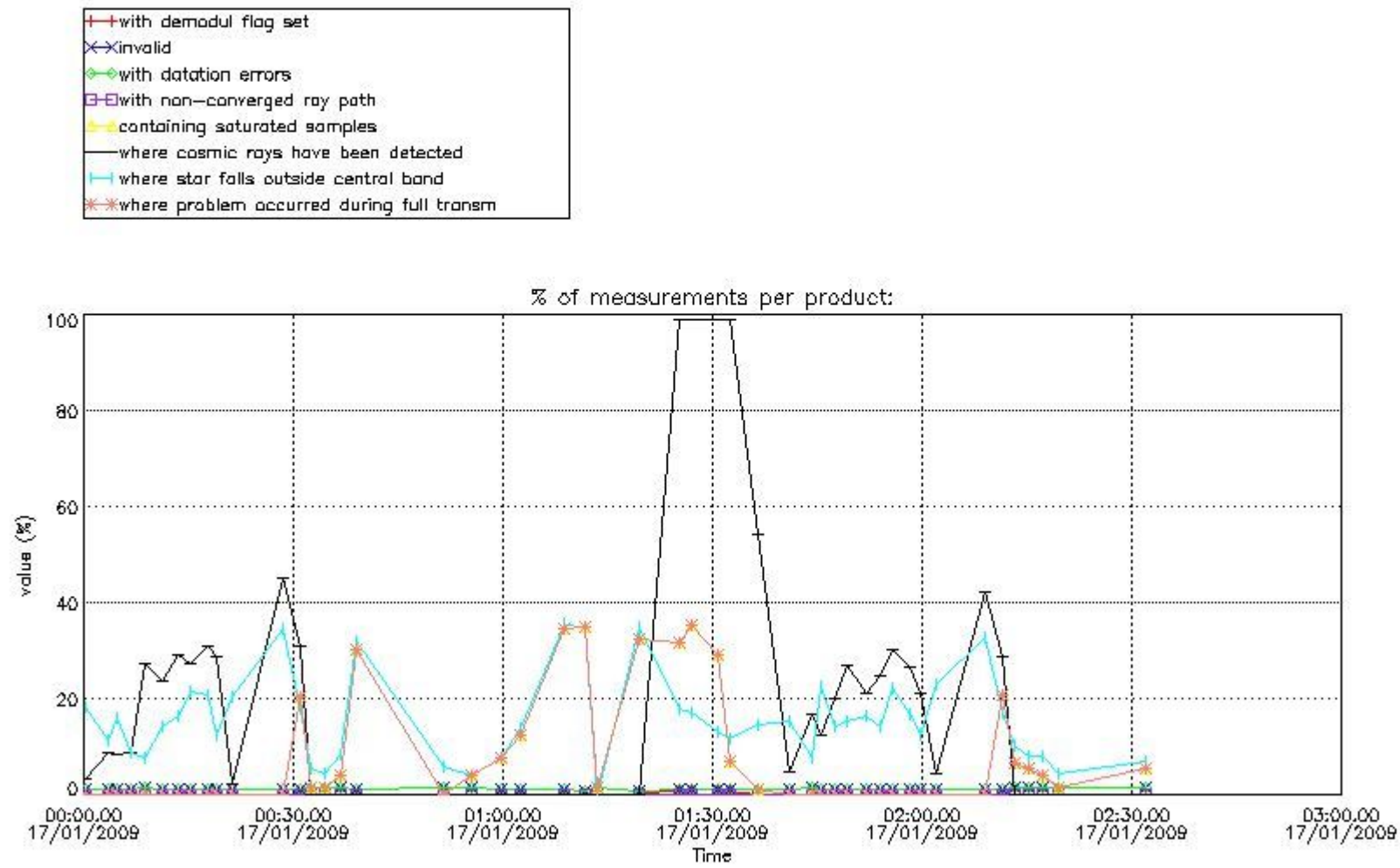
5. Demodulation flag and quality information monitoring

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.

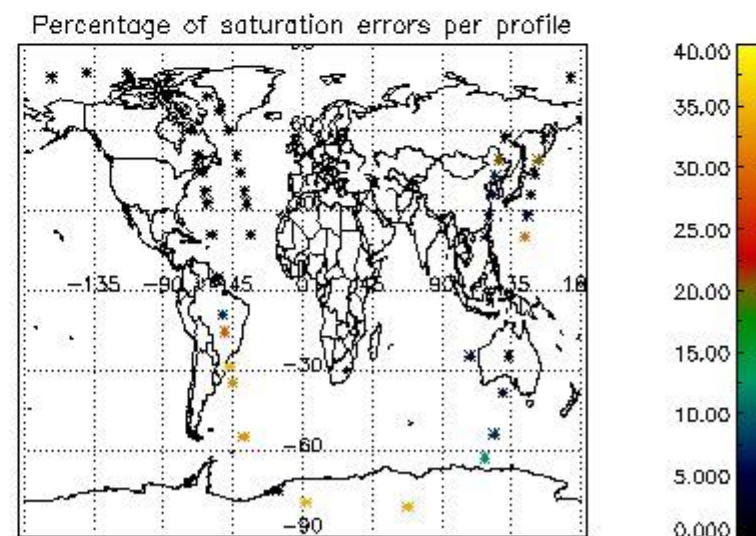
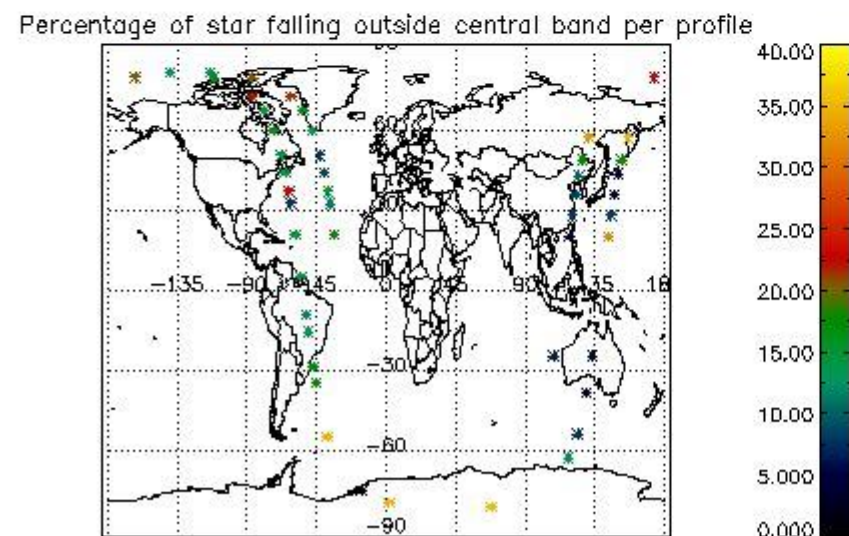
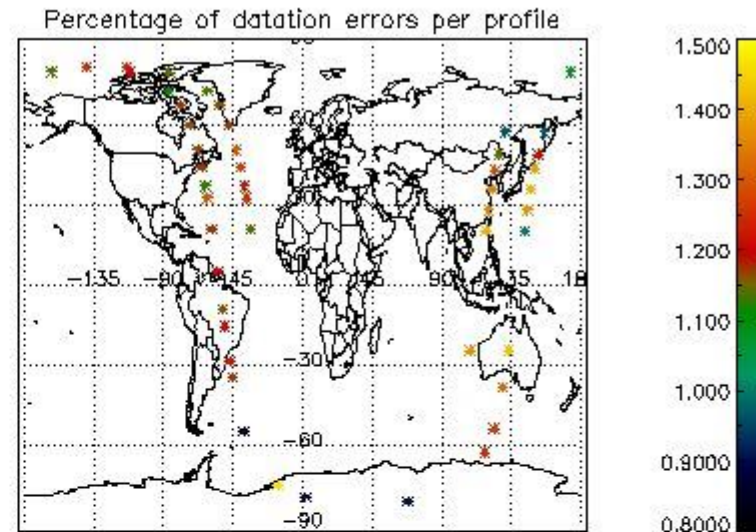
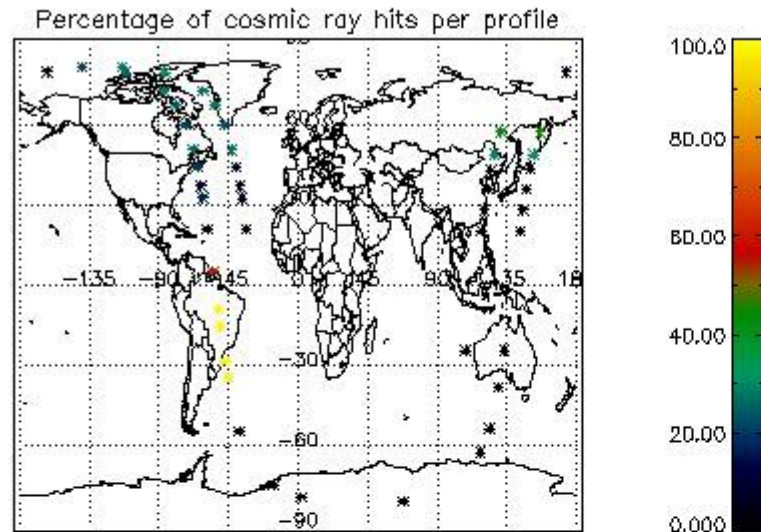
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	31.2500 %
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)



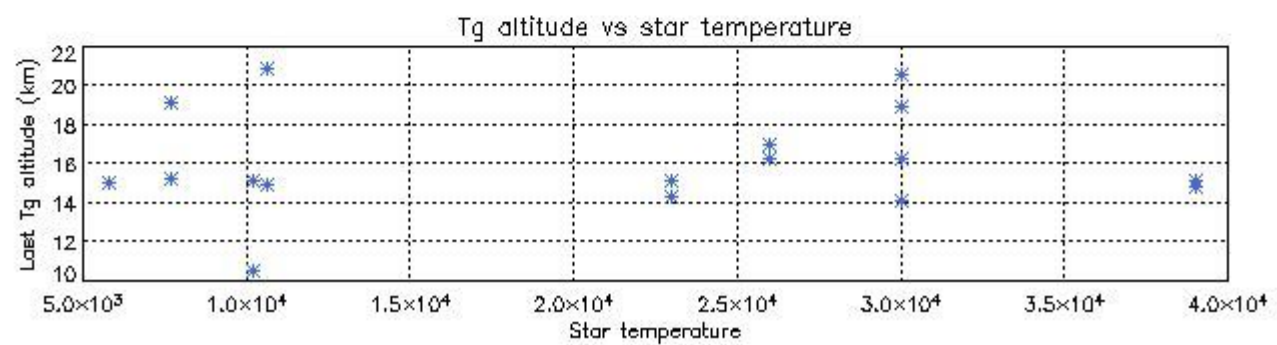
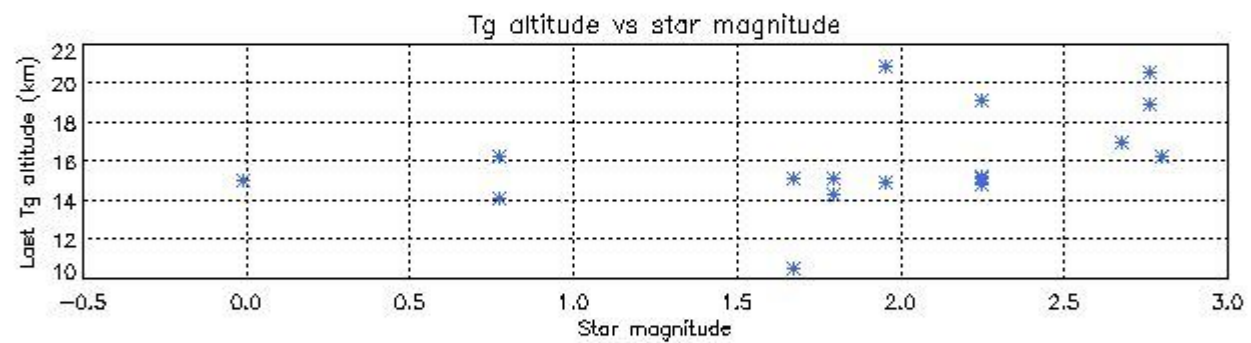
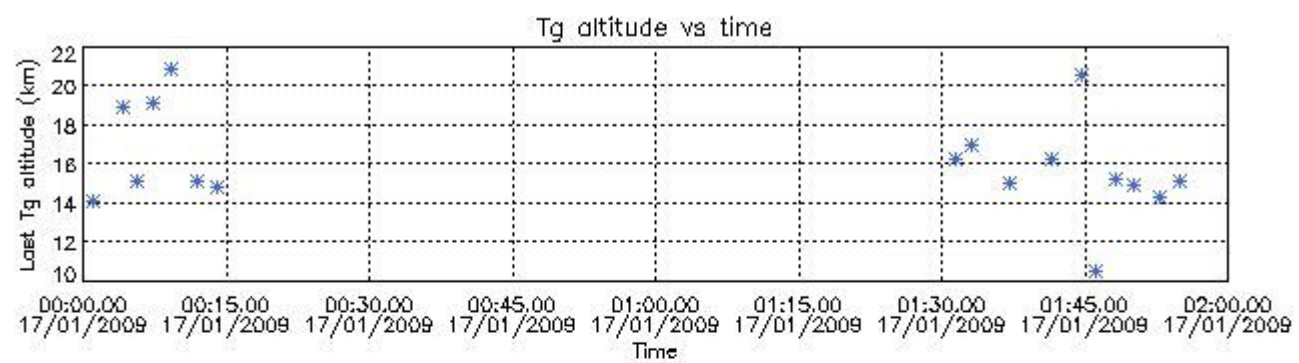
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.064	16.149	14.006
St. deviation:	2.5776	6.8483	0.0000
Maximum:	20.840	24.451	14.006
Minimum:	10.508	3.9199	14.006
Number of data:	17.000	19.000	1.0000

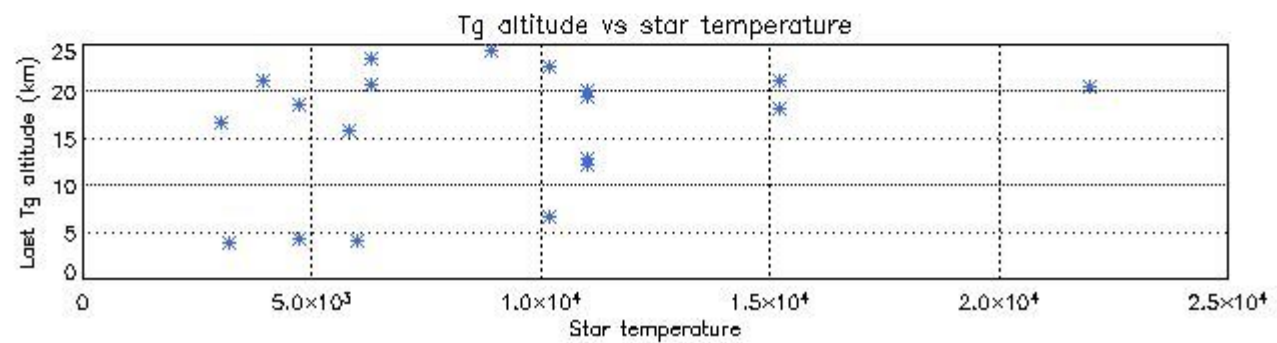
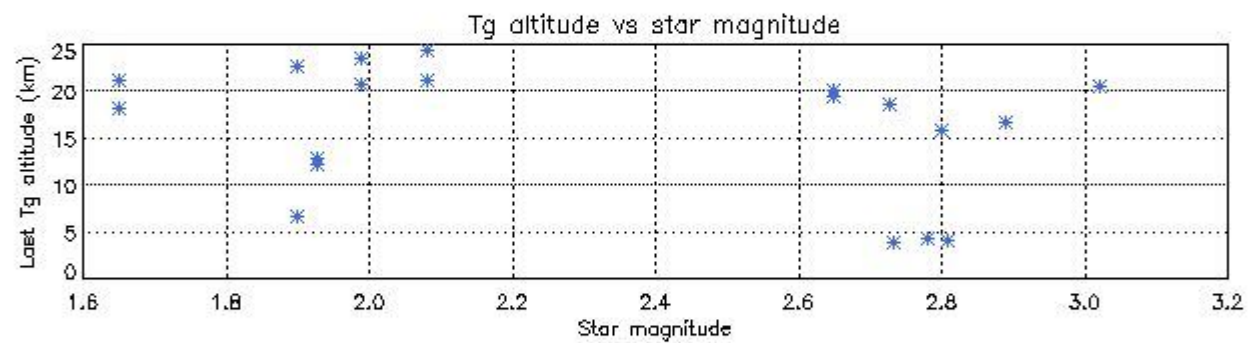
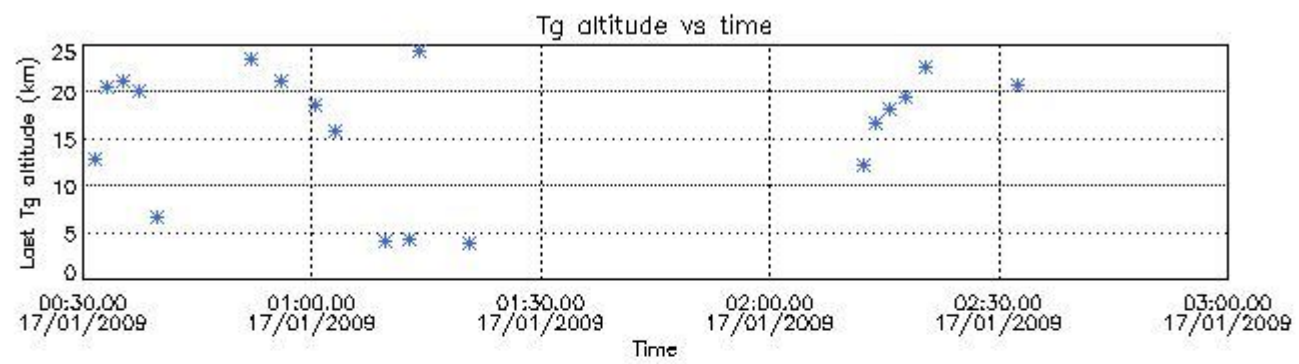
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



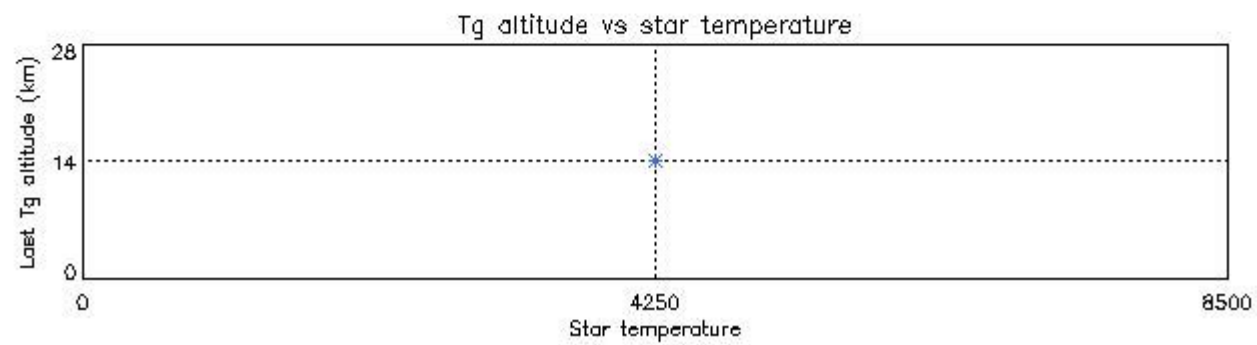
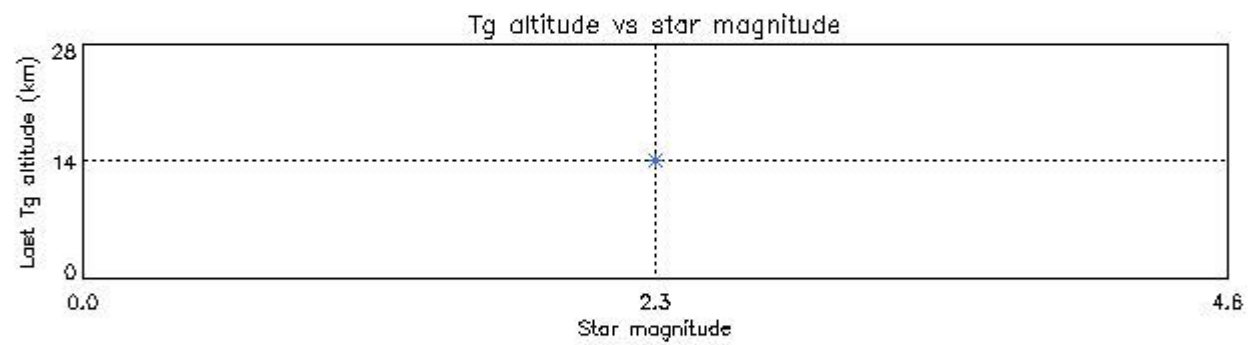
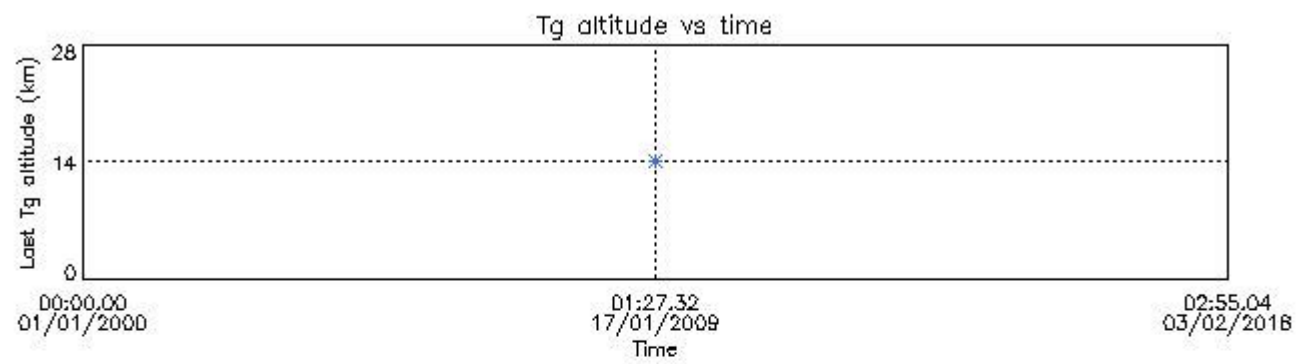
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

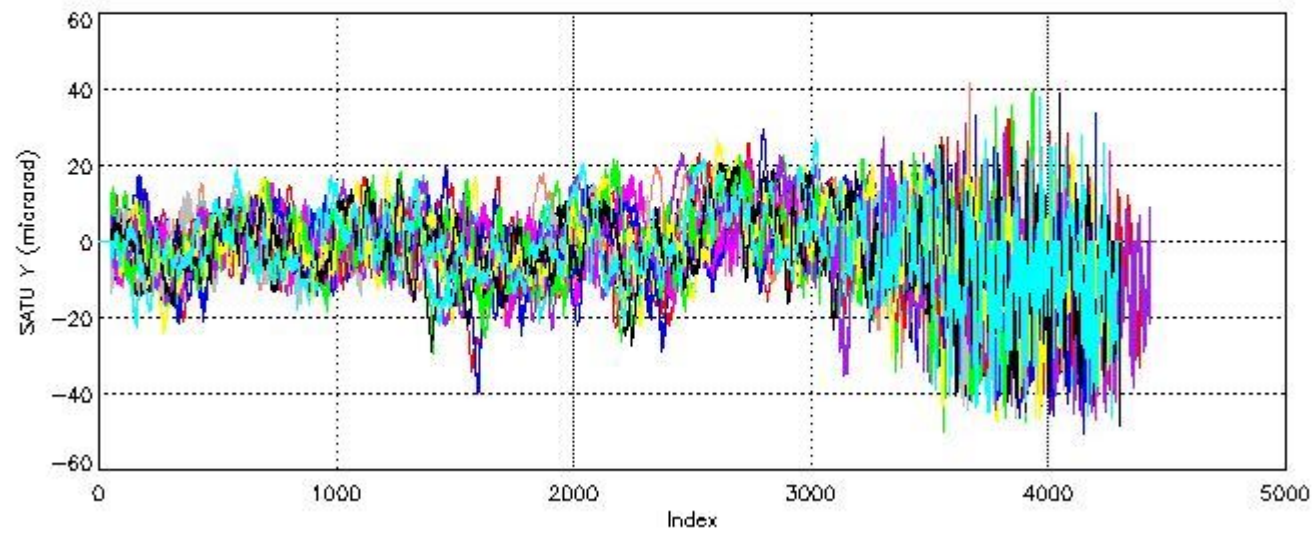
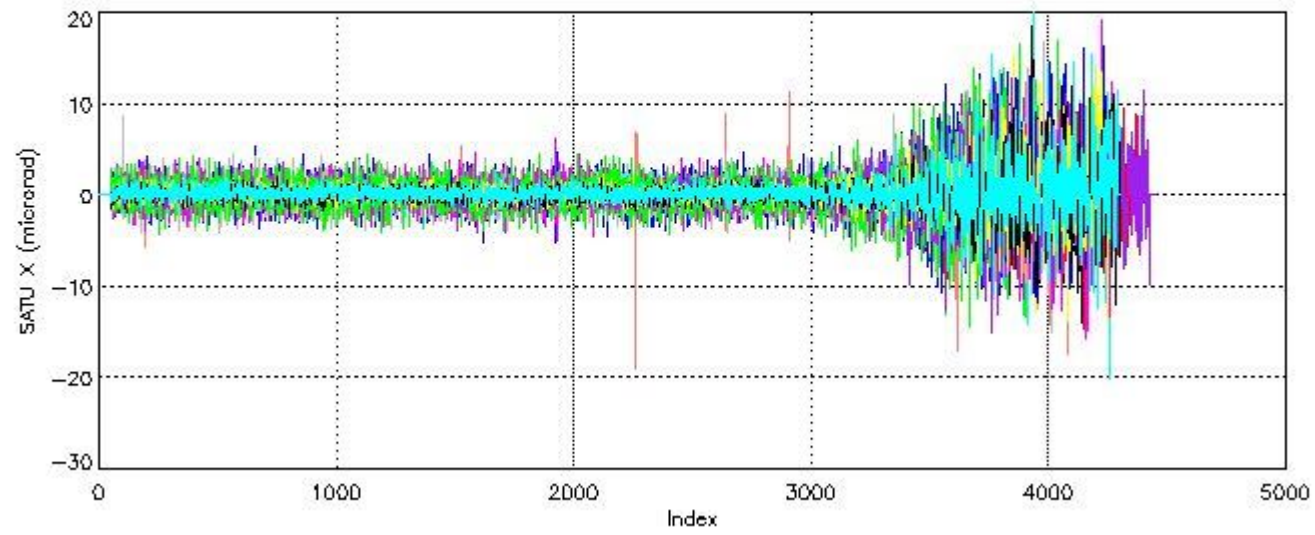


7. Star Acquisition and Tracking Unit (SATU)

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:	0.14387	-1.0417	0.055254	-0.60741
St. deviation:	0.73847	6.0891	0.75690	6.6510
Maximum:	8.5000	19.000	5.6000	19.000
Minimum:	-4.3000	-24.200	-4.5000	-28.900

Number of data:	16050.	16050.	16550.	16550.
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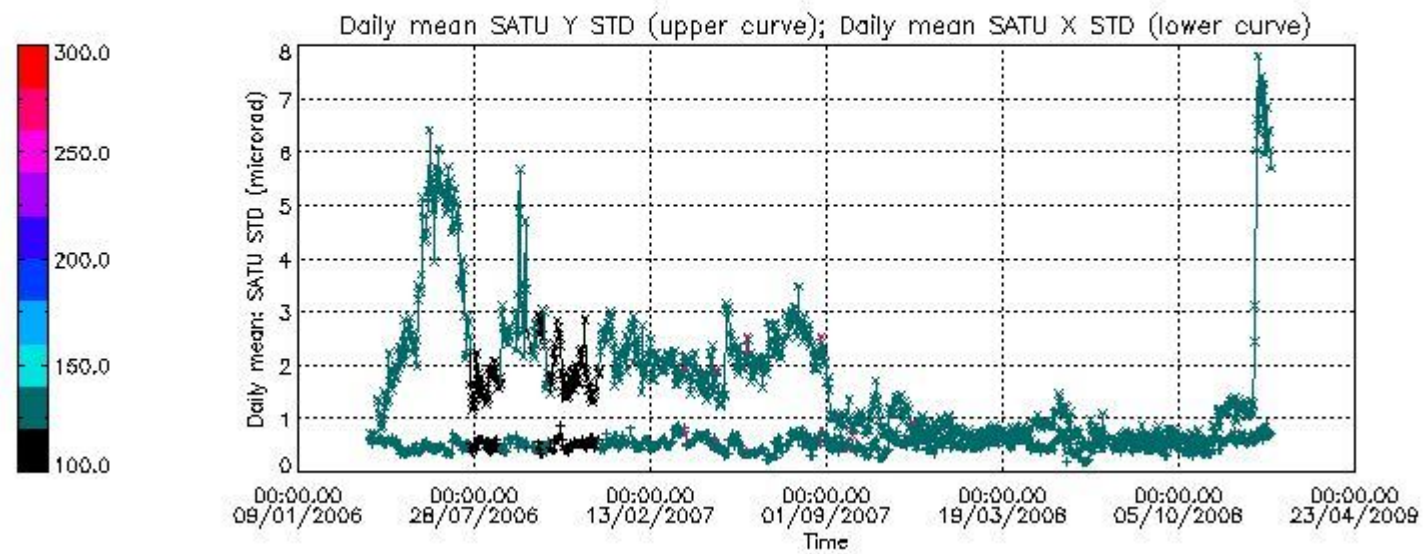
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

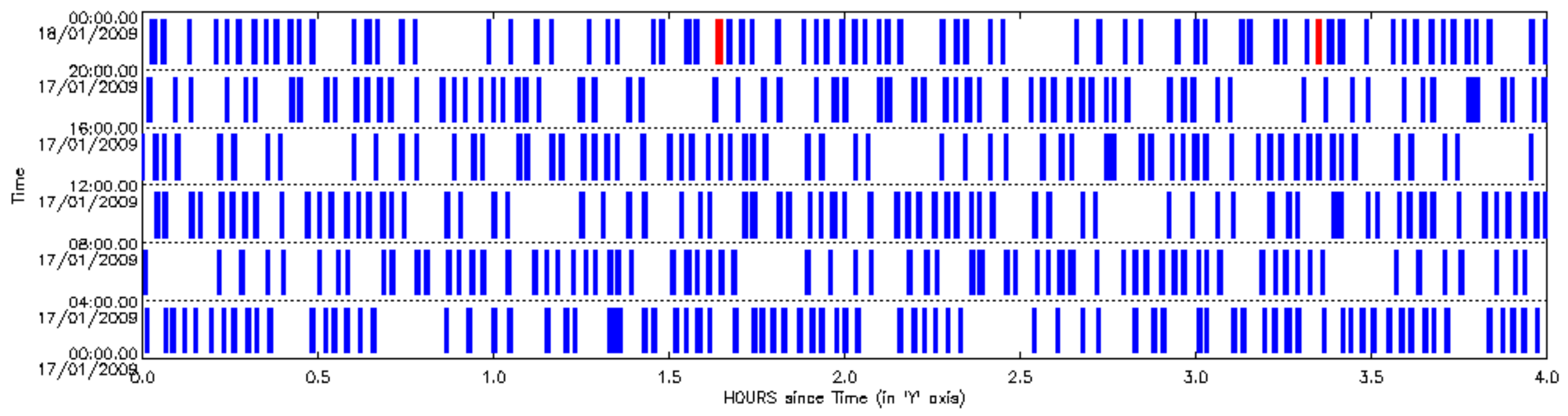
Lower curve: STD of SATU X axis

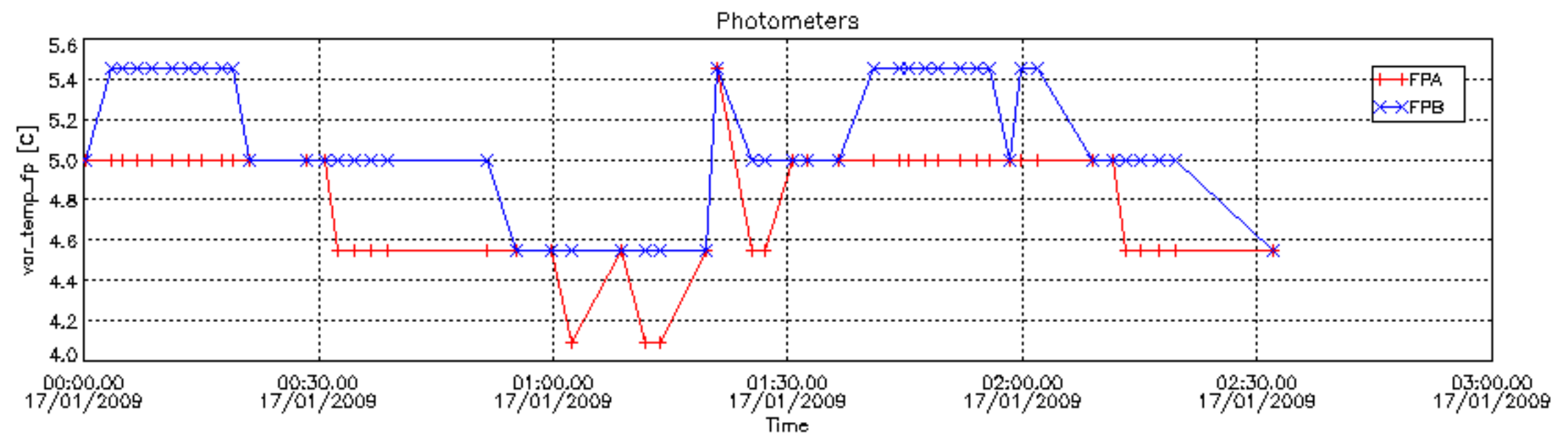
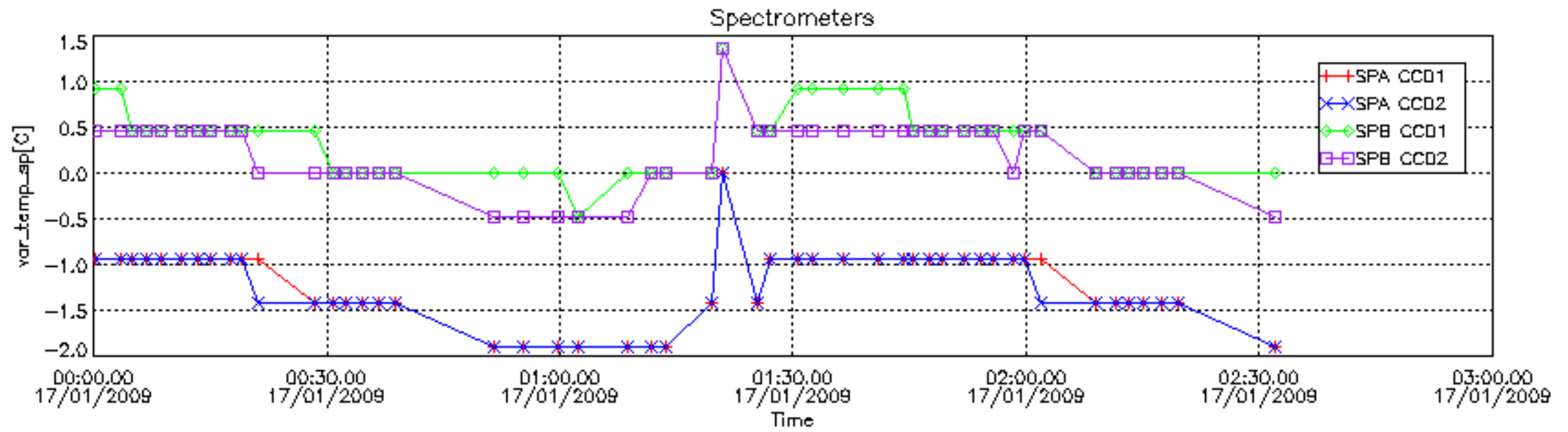


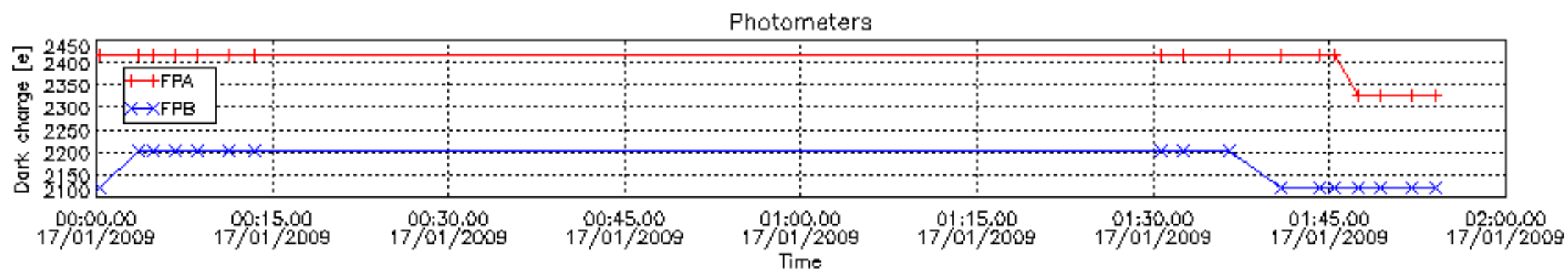
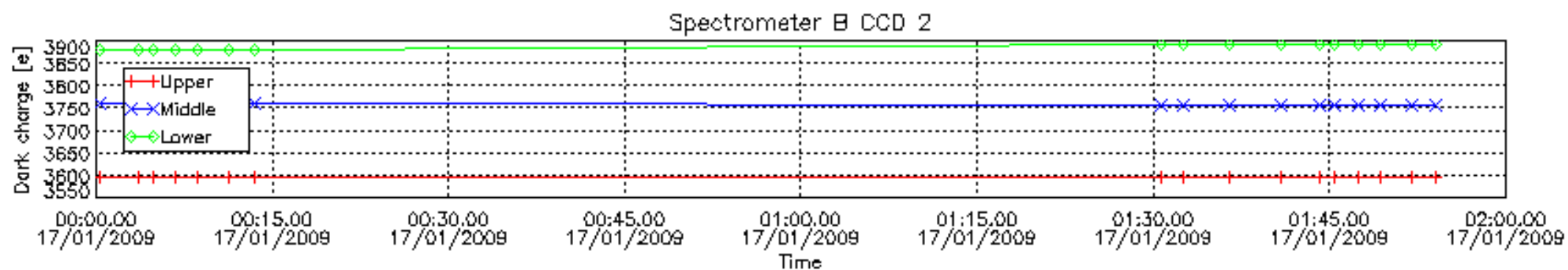
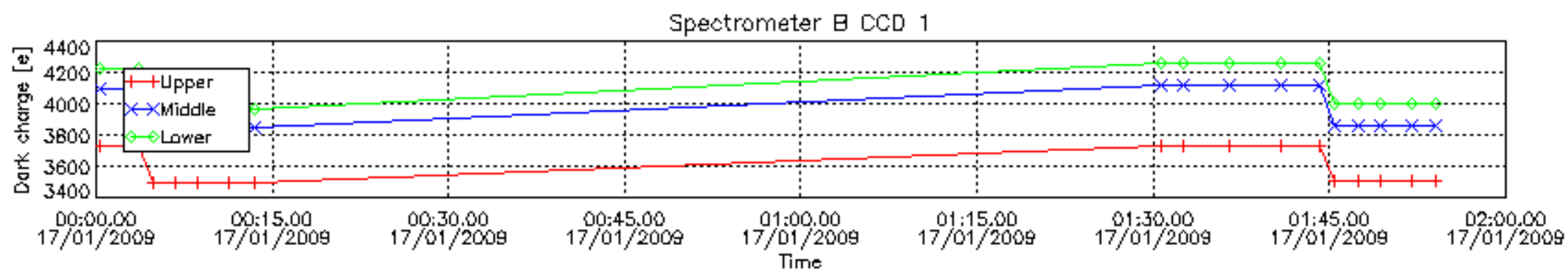
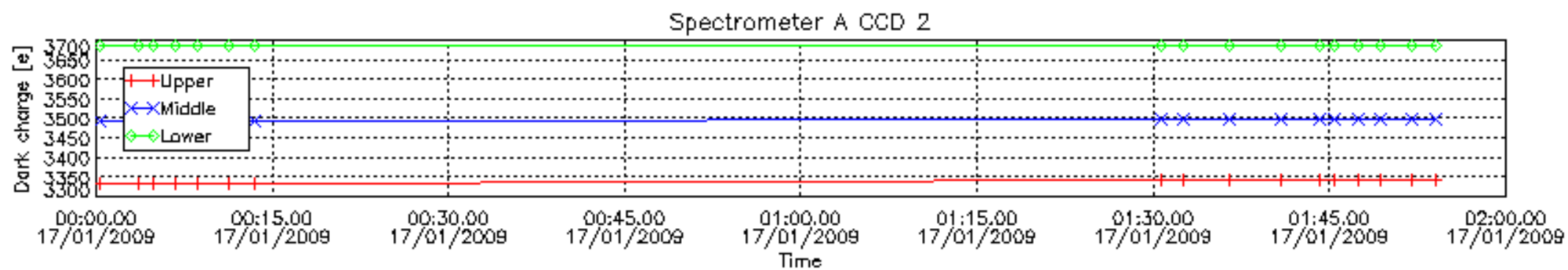
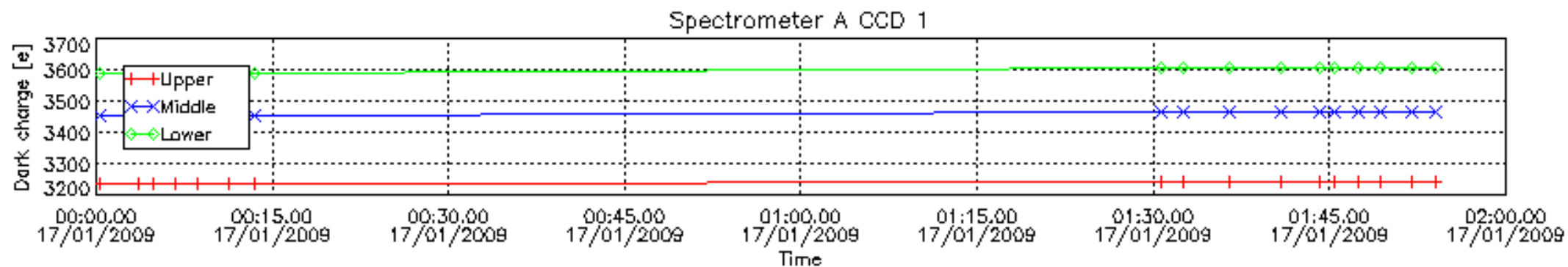
8. Auxiliary Data Files used for the production reported in section 2.4

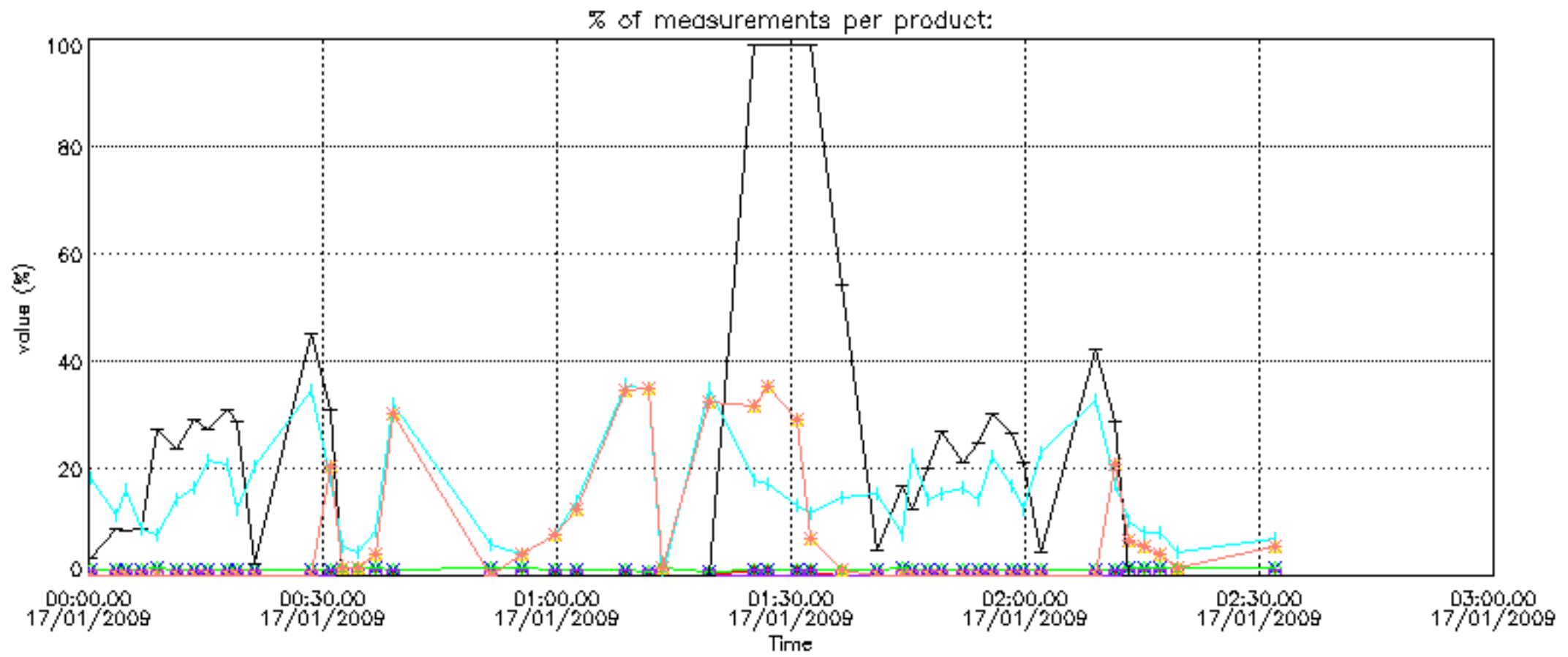
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	17-JAN-2009 00:00:19
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090113_094413_20090111_000000_20100101_000000	1	17-JAN-2009 00:00:19
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	17-JAN-2009 00:00:19
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-JAN-2009 00:00:19
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	17-JAN-2009 00:00:19
ECMWF_FILE	AUX_ECF_AXNECM20090116_062113_20090116_210000_20090117_090000	1	17-JAN-2009 00:00:19
OPTIONAL_ECMWF_FILE	MISSING	1	17-JAN-2009 00:00:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090116_234143_000054192075_00359_35984_7178.N1	1	17-JAN-2009 00:00:19

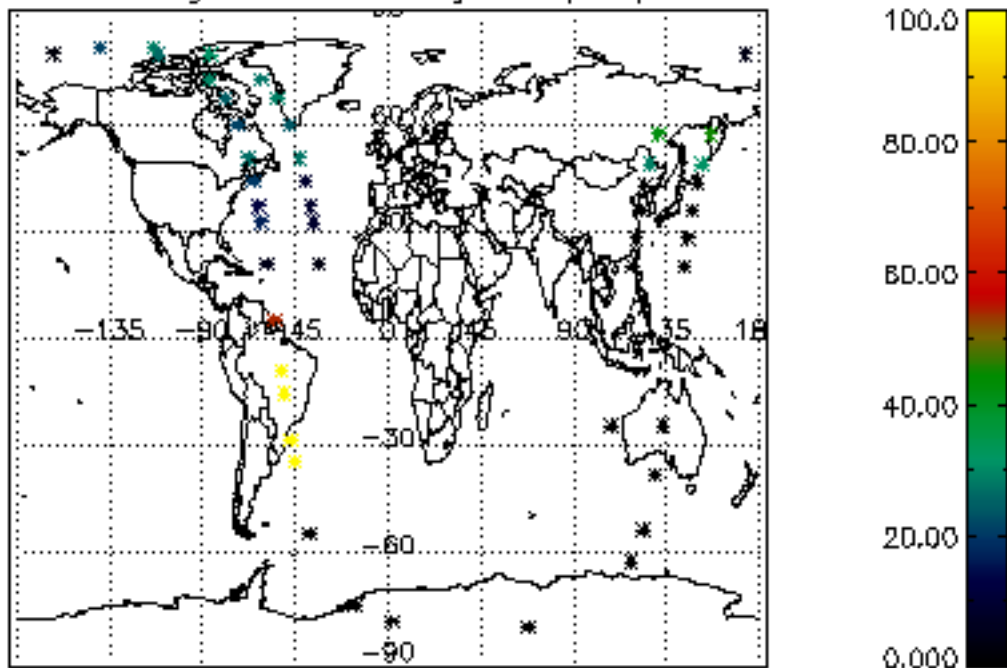




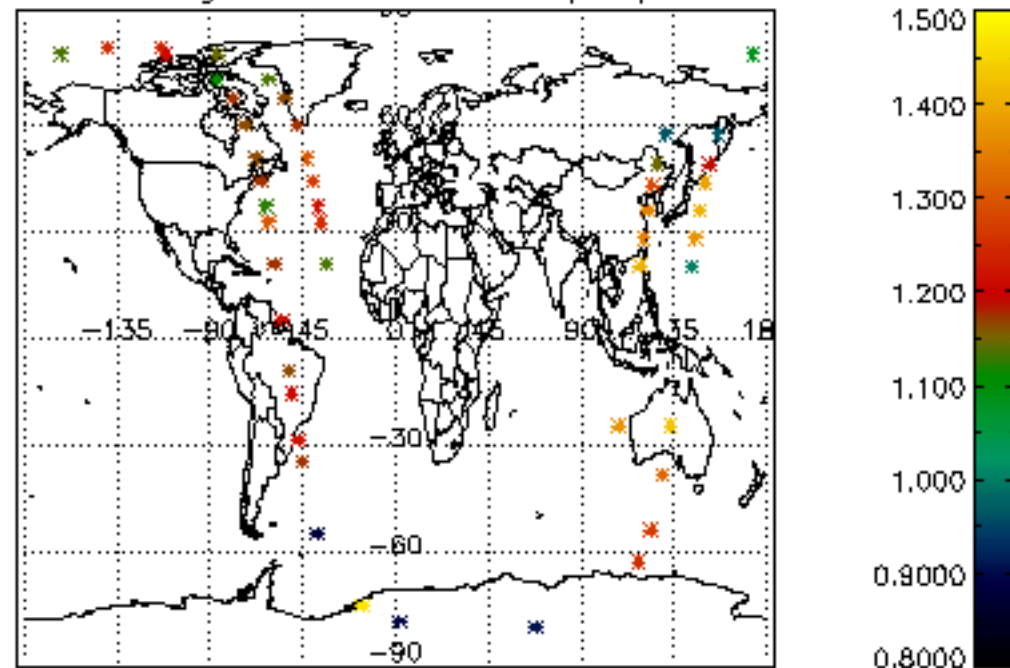




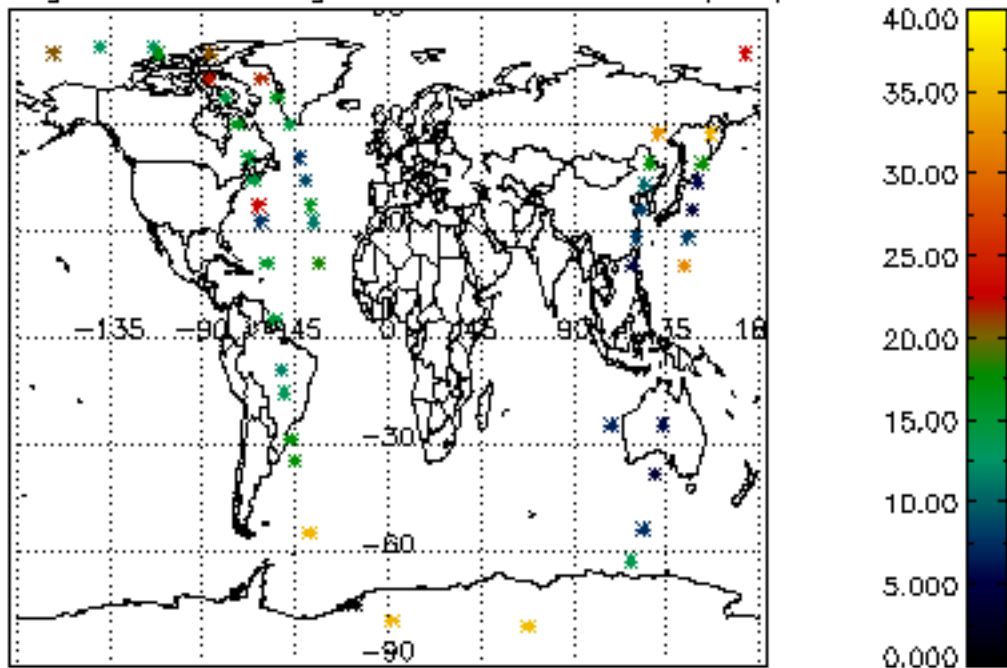
Percentage of cosmic ray hits per profile



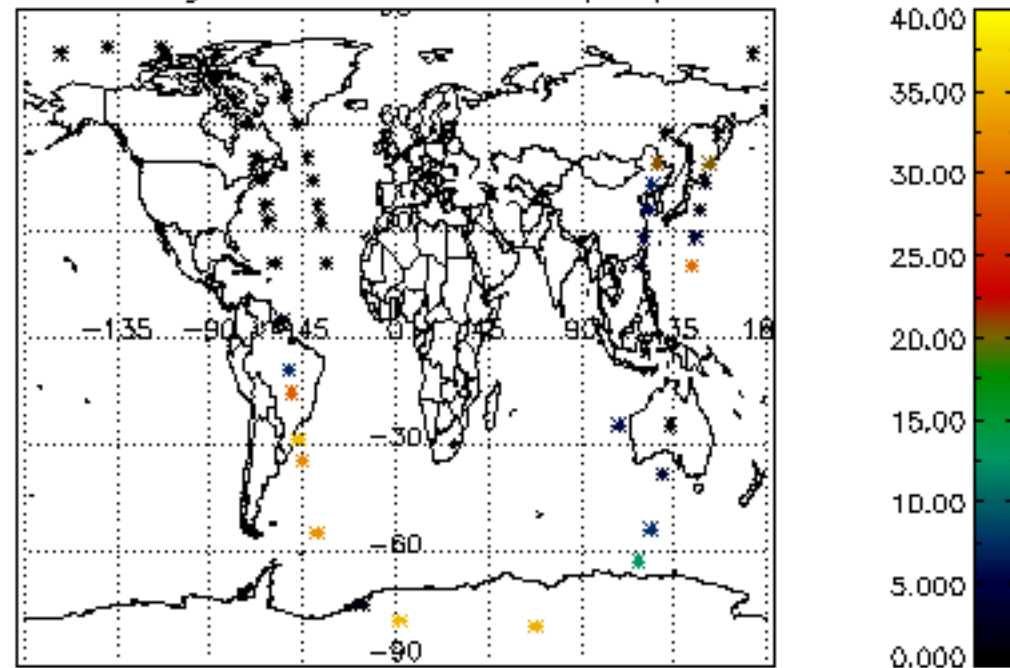
Percentage of datation errors per profile



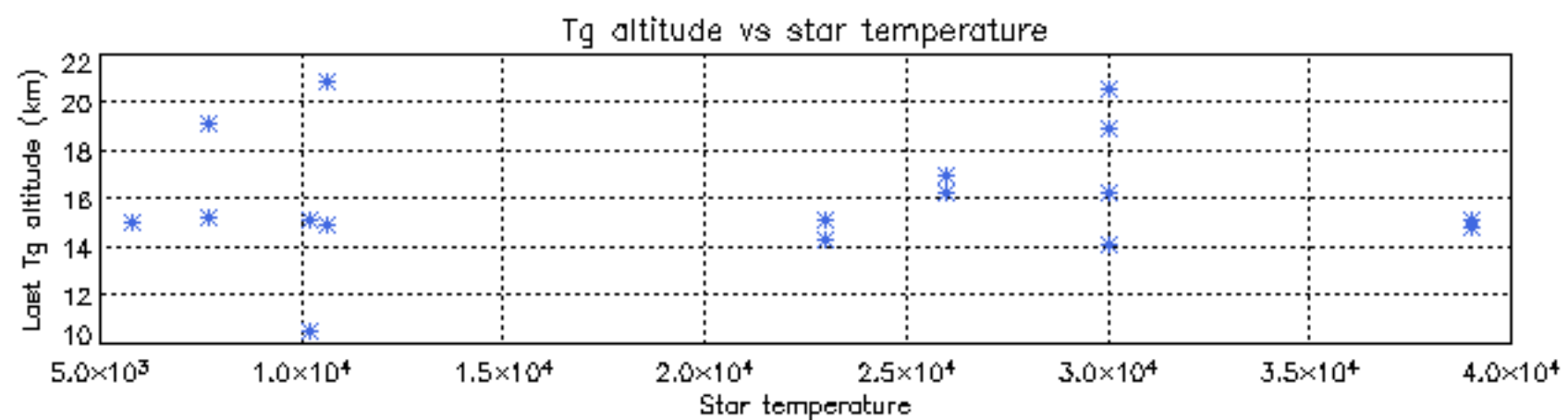
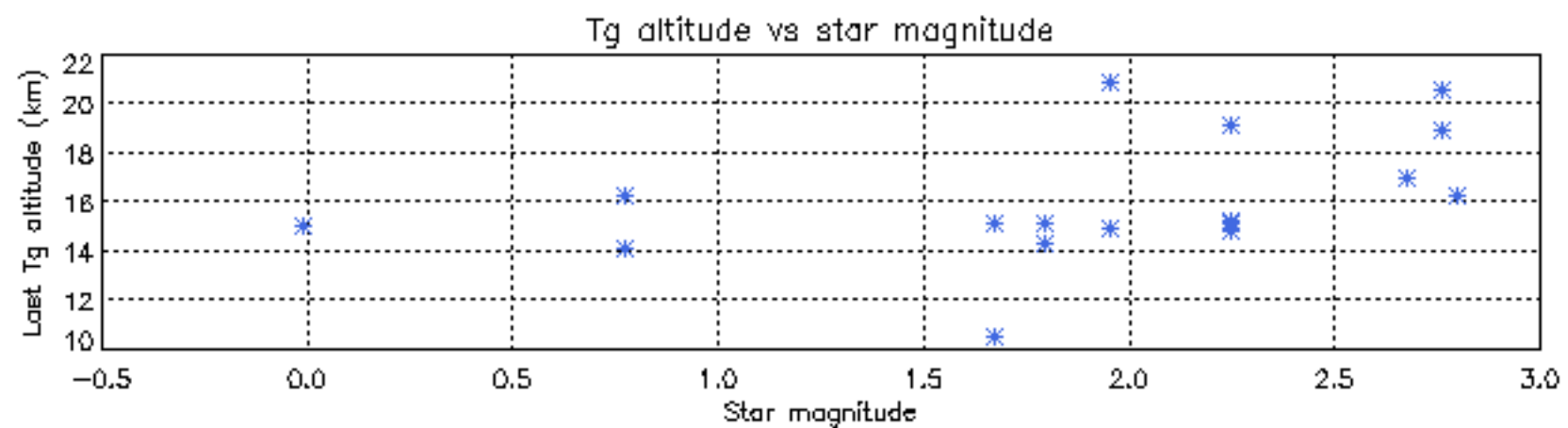
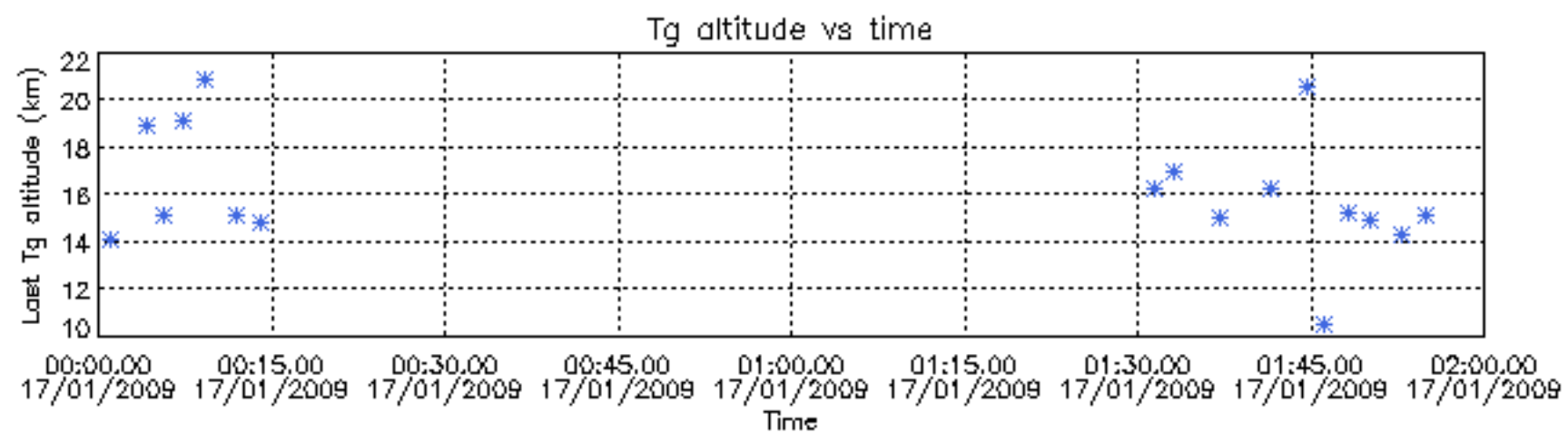
Percentage of star falling outside central band per profile



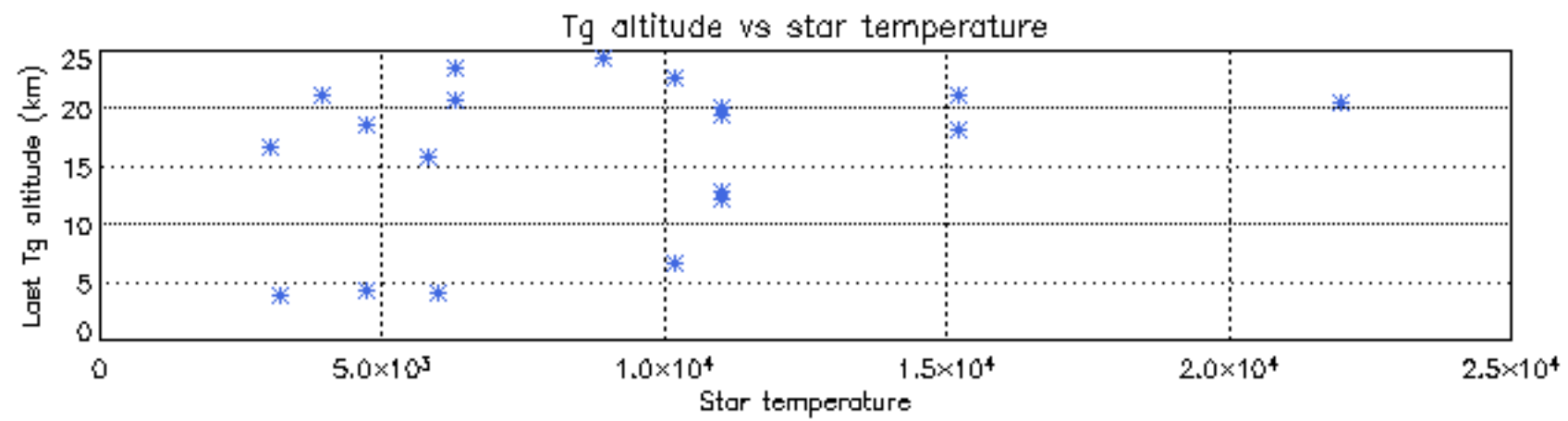
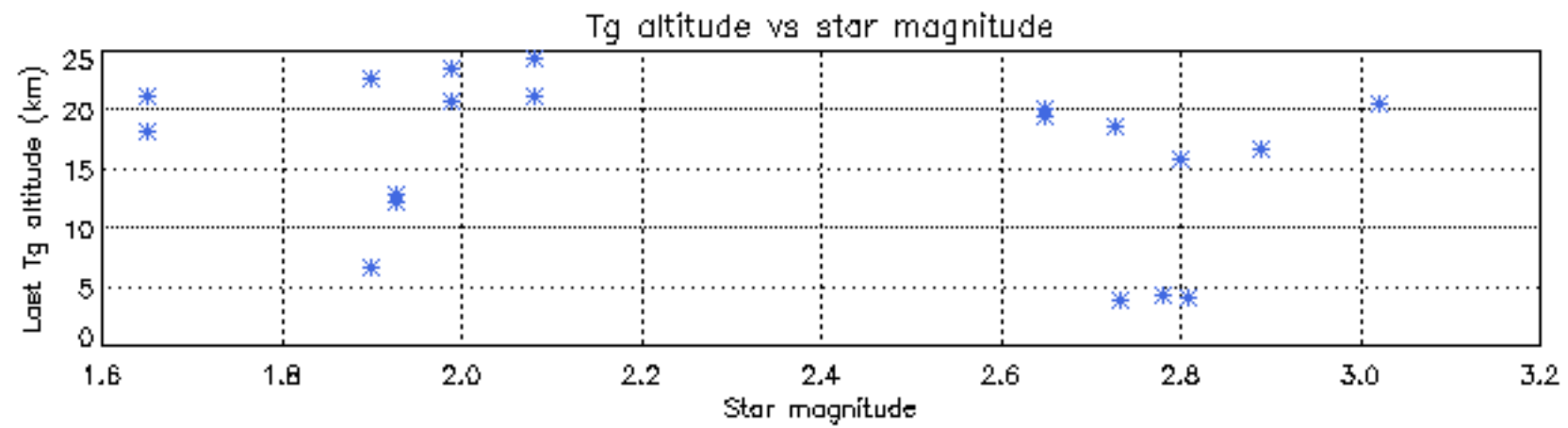
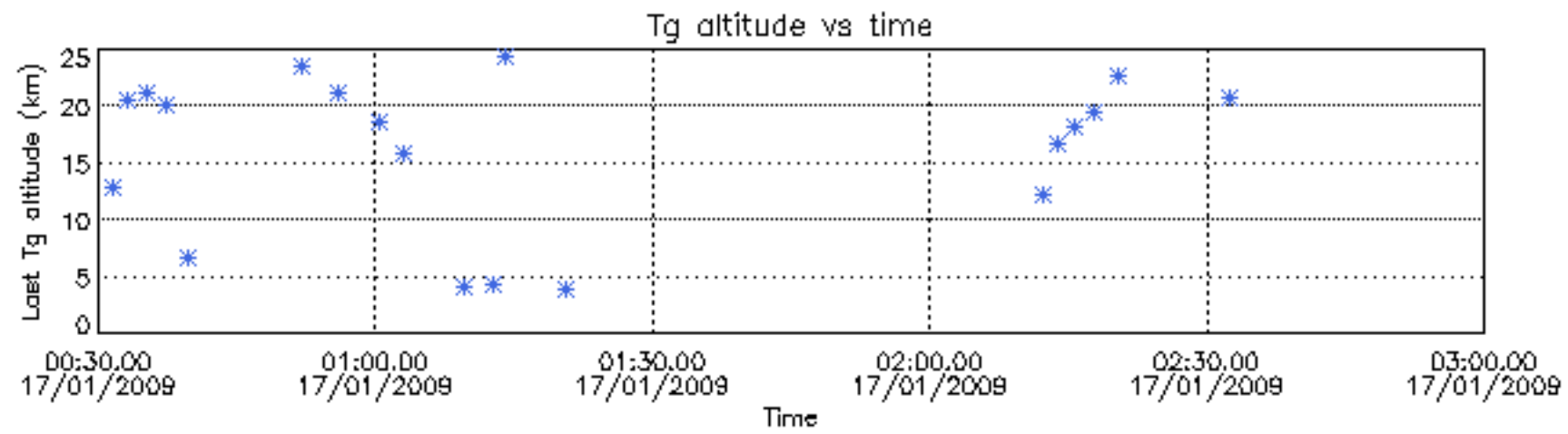
Percentage of saturation errors per profile



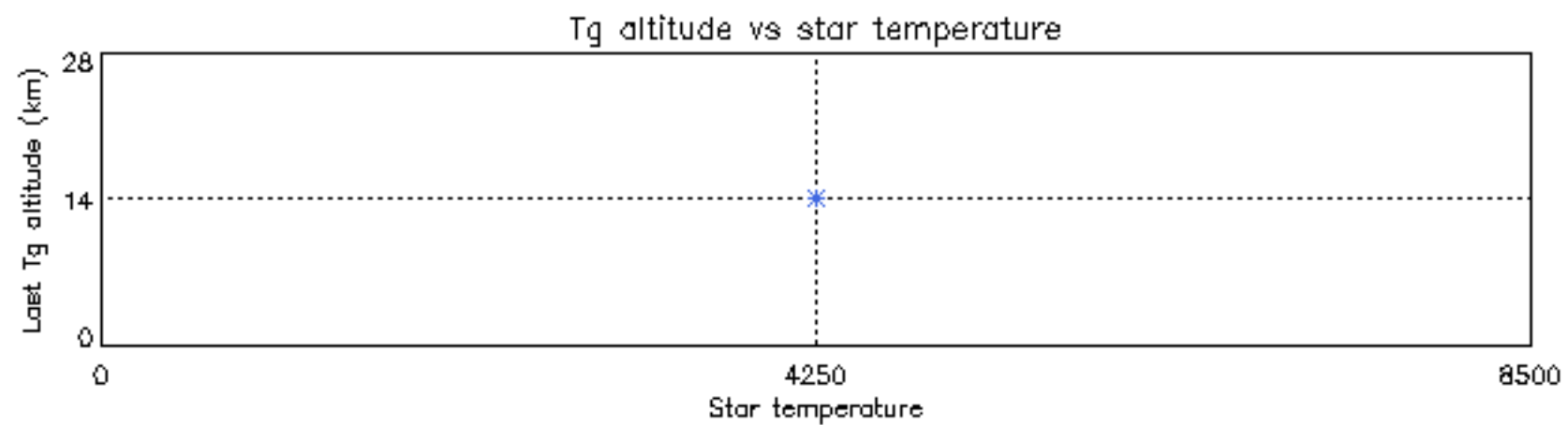
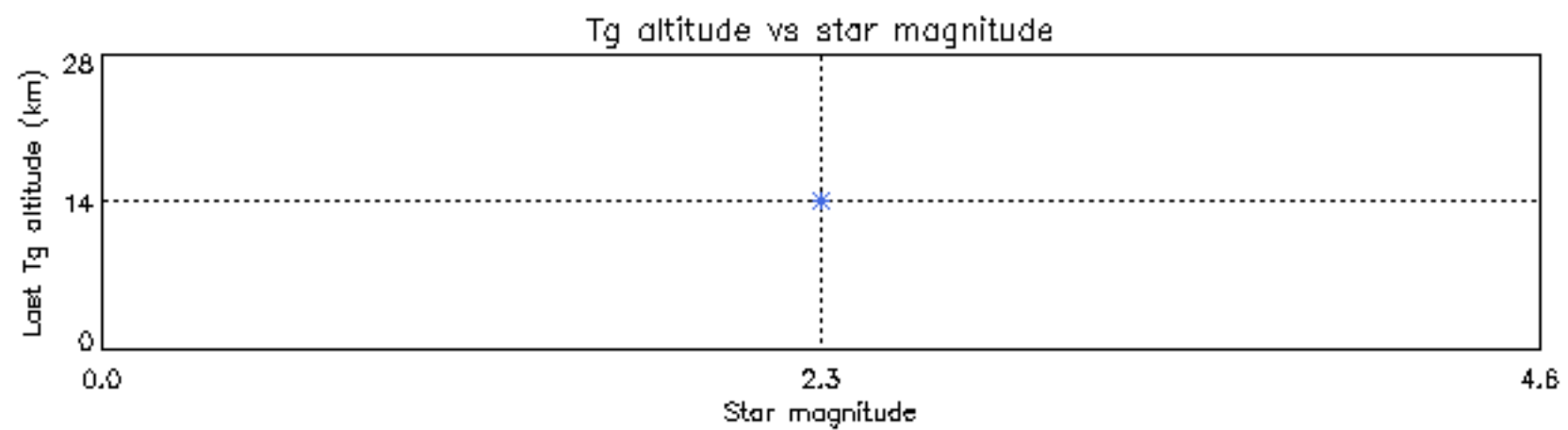
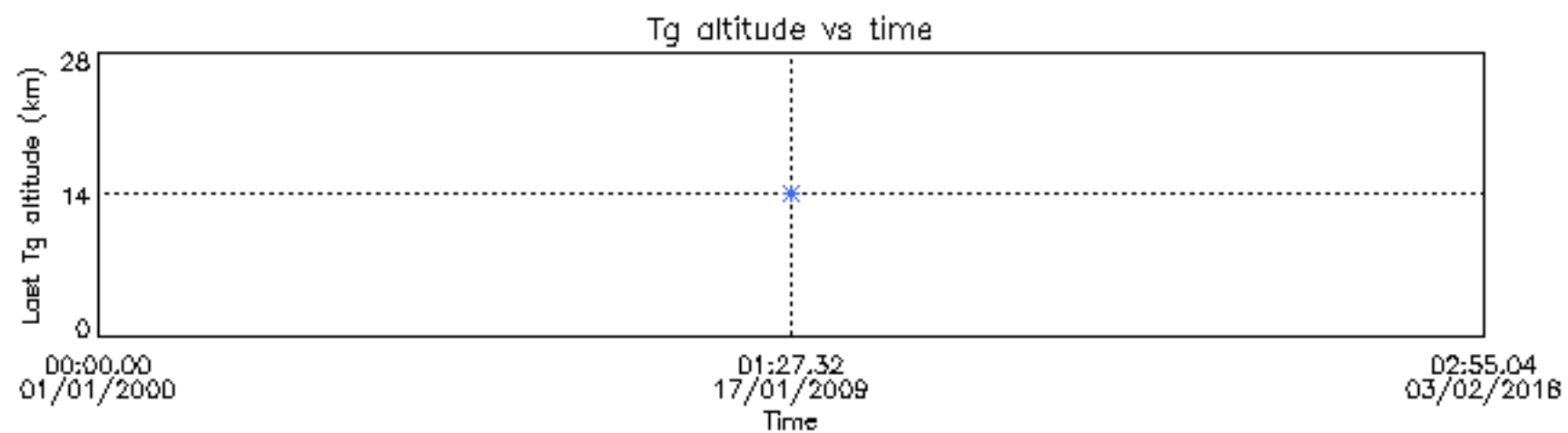
Tangent altitude at which the star is lost

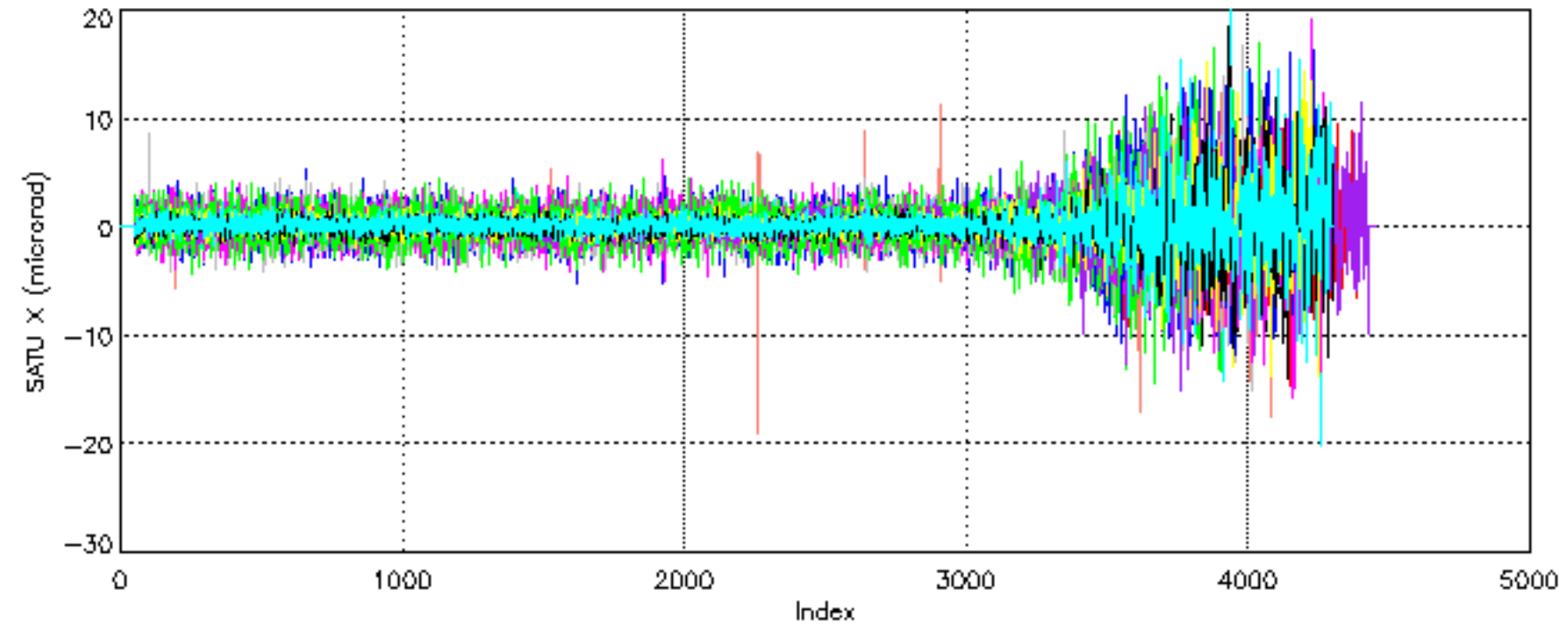


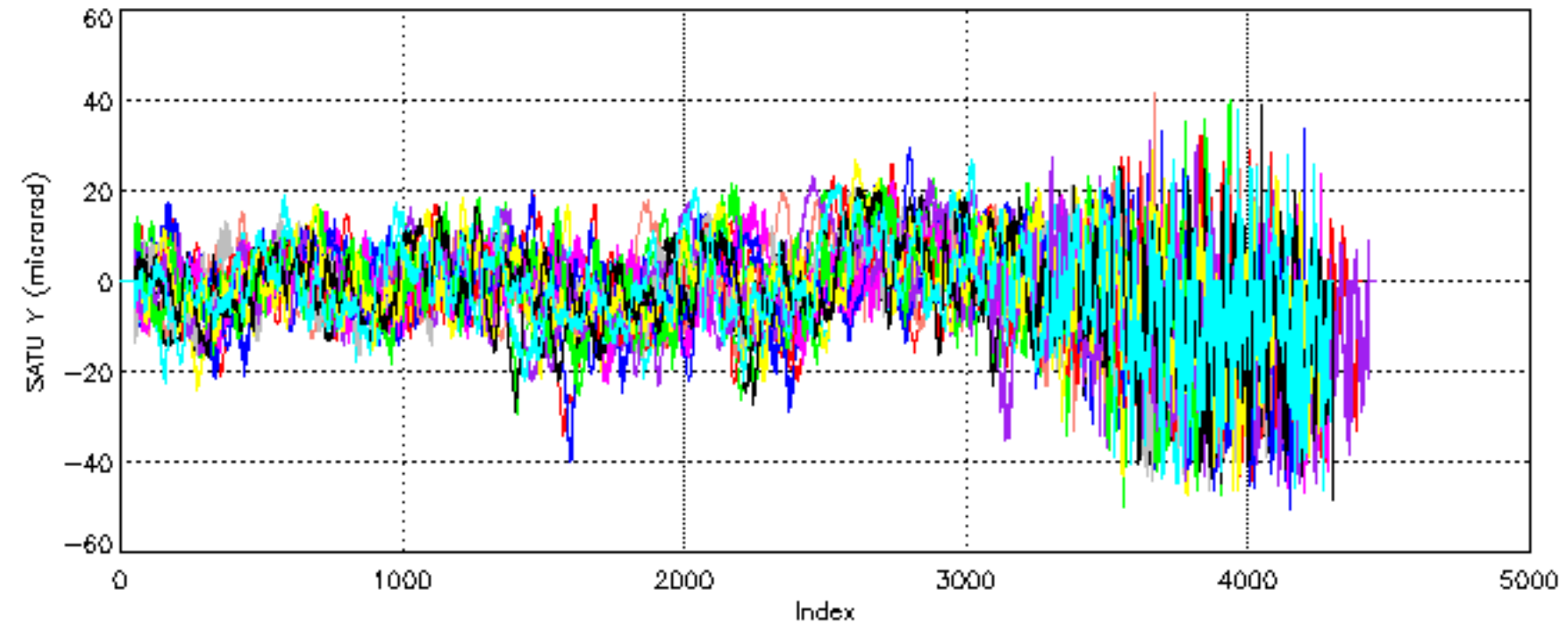
Tangent altitude at which the star is lost

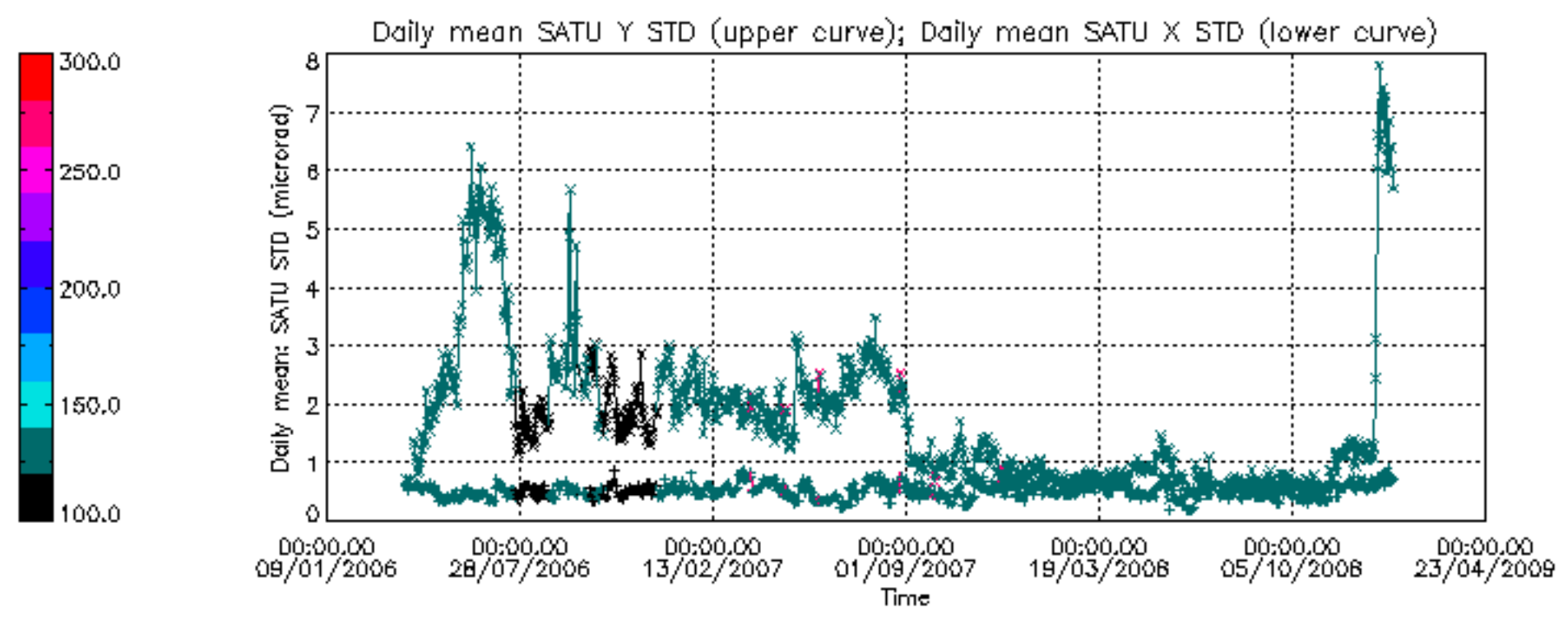


Tangent altitude at which the star is lost









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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
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 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
 14; 728.2; 01-JAN-2009 03:30:38; Dark ; 40.0; 41; Eps Car ; 1.86; 4100;occ; 80; 0;35758
 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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 22; 2032.6; 01-JAN-2009 03:52:23; Dark ; 47.0; 14; 58Alp Ori ; 0.87; 3000;occ; 94; 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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 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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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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4; 1345.2; 01-JAN-2009 20:26:55; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;35768
5; 1436.9; 01-JAN-2009 20:28:27; Dark ; 45.0; 179; 240mi2CMA ; 3.03; 24000;occ; 90; 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
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19; 4578.0; 01-JAN-2009 21:20:48; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;35768
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9; 553.4; 01-JAN-2009 21:54:19; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;35769
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 17; 4906.8; 04-JAN-2009 08:07:14; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;35803
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 21; 5694.3; 04-JAN-2009 08:20:21; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;35803
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 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
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 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
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 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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 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
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 25; 6294.6; 04-JAN-2009 10:10:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35804
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 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
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 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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 6; 2395.0; 04-JAN-2009 10:46:34; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;35805
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 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
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 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
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 19; 5387.3; 04-JAN-2009 11:36:26; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;35805
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 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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27; 6296.4; 04-JAN-2009 13:32:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35806
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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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15;	3671.1;	11-JAN-2009	17:30:06;	Bright;		43.5;	60;	7Bet UMi	;	2.08;	3950;occ;	87;	0;	35909
16;	3923.7;	11-JAN-2009	17:34:19;	Bright;		40.5;	119;	14Eta Dra	;	2.73;	4700;occ;	81;	0;	35909
17;	4071.5;	11-JAN-2009	17:36:46;	Bright;		34.0;	130;	23Bet Dra	;	2.80;	5800;occ;	68;	0;	35909
18;	4446.4;	11-JAN-2009	17:43:01;	Bright;		53.0;	133;	40Zet Her	;	2.81;	6000;occ;	106;	0;	35909
19;	4576.3;	11-JAN-2009	17:45:11;	Bright;		60.0;	67;	5Alp CrB	;	2.22;	11000;occ;	120;	0;	35909
20;	4947.2;	11-JAN-2009	17:51:22;	Bright;		59.0;	102;	24Alp Ser	;	2.60;	4250;occ;	118;	0;	35909
21;	5077.7;	11-JAN-2009	17:53:33;	Bright;		54.0;	120;	1Del Oph	;	2.73;	3200;occ;	108;	0;	35909
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26;	5836.1;	11-JAN-2009	18:06:11;	Dark	;	40.5;	109;	Bet Lup	;	2.68;	26000;occ;	81;	0;	35909
27;	5926.8;	11-JAN-2009	18:07:42;	Dark	;	43.5;	78;	Alp Lup	;	2.30;	28000;occ;	87;	0;	35909
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29; 2294.8; 24-JAN-2009 05:14:19; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;36088
30; 2417.0; 24-JAN-2009 05:16:22; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;36088
31; 2548.5; 24-JAN-2009 05:18:33; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;36088
32; 2676.7; 24-JAN-2009 05:20:41; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;36088
33; 3426.1; 24-JAN-2009 05:33:11; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;36088
34; 3638.6; 24-JAN-2009 05:36:43; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;36088

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1; -2360.4; 24-JAN-2009 05:37:20; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 74;36088
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3; -1950.8; 24-JAN-2009 05:44:10; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;36088
4; -1564.0; 24-JAN-2009 05:50:37; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;36088
5; -1364.4; 24-JAN-2009 05:53:56; Bright; 42.5; 127; 27Bet Her ; 2.78; 4700;occ; 85; 0;36088
6; -1267.1; 24-JAN-2009 05:55:34; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;36088
7; -1140.5; 24-JAN-2009 05:57:40; Bright; 35.0; 126; 60Bet Oph ; 2.77; 4250;occ; 70; 0;36088
8; -800.5; 24-JAN-2009 06:03:20; Dark ; 46.5; 98; 13Zet Oph ; 2.57; 30000;occ; 93; 0;36088
9; -530.1; 24-JAN-2009 06:07:51; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;36088
10; -443.8; 24-JAN-2009 06:09:17; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;36088
11; -195.9; 24-JAN-2009 06:13:25; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;36088
12; -74.4; 24-JAN-2009 06:15:26; Dark ; 42.5; 109; Bet Lup ; 2.68; 26000;occ; 85; 0;36088
13; 34.5; 24-JAN-2009 06:17:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36089
14; 138.1; 24-JAN-2009 06:18:59; Dark ; 55.0; 4; Alp1Cen ; -0.01; 5800;occ; 110; 0;36089
15; 227.9; 24-JAN-2009 06:20:29; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;36089
16; 411.7; 24-JAN-2009 06:23:32; Dark ; 50.5; 12; Alp1Cru ; 0.77; 30000;occ; 101; 0;36089
17; 503.8; 24-JAN-2009 06:25:04; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36089
18; 655.0; 24-JAN-2009 06:27:36; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;36089
19; 786.2; 24-JAN-2009 06:29:47; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;36089
20; 894.5; 24-JAN-2009 06:31:35; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;36089
21; 1050.6; 24-JAN-2009 06:34:11; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;36089
22; 1177.5; 24-JAN-2009 06:36:18; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;36089
23; 1266.7; 24-JAN-2009 06:37:47; Dark ; 42.0; 117; Pi Pup ; 2.71; 3800;occ; 84; 0;36089
24; 1415.1; 24-JAN-2009 06:40:16; Dark ; 41.5; 23; 21Eps CMa ; 1.50; 26000;occ; 83; 0;36089
25; 1497.7; 24-JAN-2009 06:41:38; Dark ; 36.0; 179; 24Omi2CMa ; 3.03; 24000;occ; 72; 0;36089
26; 1628.3; 24-JAN-2009 06:43:49; Dark ; 44.0; 1; 9Alp CMa ; -1.44; 11000;occ; 88; 0;36089
27; 1995.7; 24-JAN-2009 06:49:56; Dark ; 47.0; 8; 10Alp CMi ; 0.40; 6500;occ; 94; 0;36089
28; 2188.2; 24-JAN-2009 06:53:09; Bright; 38.5; 44; 24Gam Gem ; 1.93; 11000;occ; 77; 0;36089
29; 2294.9; 24-JAN-2009 06:54:56; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;36089
30; 2417.0; 24-JAN-2009 06:56:58; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36089
31; 2548.2; 24-JAN-2009 06:59:09; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;36089
32; 2676.5; 24-JAN-2009 07:01:17; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;36089
33; 3426.6; 24-JAN-2009 07:13:47; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;36089
34; 3638.3; 24-JAN-2009 07:17:19; Bright; 14.0; 60; 7Bet UMi ; 2.08; 3950;occ; 28; 0;36089

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1; 897.3; 24-JAN-2009 19:56:25; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;36097

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3; 1179.6; 24-JAN-2009 20:01:08; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;36097
4; 1268.5; 24-JAN-2009 20:02:37; Dark ; 42.0; 117; Pi Pup ; 2.71; 3800;occ; 84; 0;36097
5; 1416.5; 24-JAN-2009 20:05:05; Dark ; 41.5; 23; 21Eps CMa ; 1.50; 26000;occ; 83; 0;36097
6; 1499.5; 24-JAN-2009 20:06:28; Dark ; 39.5; 179; 240mi2CMa ; 3.03; 24000;occ; 79; 0;36097
7; 1629.4; 24-JAN-2009 20:08:37; Dark ; 42.5; 1; 9Alp CMa ; -1.44; 11000;occ; 85; 0;36097
8; 1995.4; 24-JAN-2009 20:14:43; Dark ; 47.5; 8; 10Alp CMi ; 0.40; 6500;occ; 95; 0;36097
9; 2188.2; 24-JAN-2009 20:17:56; Bright; 35.5; 44; 24Gam Gem ; 1.93; 11000;occ; 71; 0;36097
10; 2295.3; 24-JAN-2009 20:19:43; Bright; 40.0; 151; 13Mu Gem ; 2.89; 3000;occ; 80; 0;36097
11; 2414.4; 24-JAN-2009 20:21:42; Bright; 43.0; 17; 78Bet Gem ; 1.16; 4500;occ; 86; 0;36097
12; 2549.0; 24-JAN-2009 20:23:57; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;36097
13; 2677.3; 24-JAN-2009 20:26:05; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;36097
14; 3426.3; 24-JAN-2009 20:38:34; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;36097
15; 3636.7; 24-JAN-2009 20:42:05; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;36097
16; 3910.5; 24-JAN-2009 20:46:39; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;36097
17; 4085.6; 24-JAN-2009 20:49:34; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;36097
18; 4289.5; 24-JAN-2009 20:52:58; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;36097
19; 4473.1; 24-JAN-2009 20:56:01; Bright; 58.0; 133; 40Zet Her ; 2.81; 6000;occ; 116; 0;36097
20; 4674.0; 24-JAN-2009 20:59:22; Bright; 41.0; 127; 27Bet Her ; 2.78; 4700;occ; 82; 0;36097
21; 4771.3; 24-JAN-2009 21:00:59; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;36097
22; 4897.5; 24-JAN-2009 21:03:05; Bright; 51.5; 126; 60Bet Oph ; 2.77; 4250;occ; 103; 0;36097

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3; -439.8; 24-JAN-2009 21:14:44; Dark ; 41.0; 75; 26Eps Sco ; 2.29; 4250;occ; 82; 0;36097
4; -189.6; 24-JAN-2009 21:18:54; Dark ; 40.5; 131; Gam Lup ; 2.80; 26000;occ; 81; 0;36097
5; -67.4; 24-JAN-2009 21:20:57; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36097
6; 40.2; 24-JAN-2009 21:22:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36098
7; 142.5; 24-JAN-2009 21:24:26; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;36098
8; 234.3; 24-JAN-2009 21:25:58; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;36098
9; 416.8; 24-JAN-2009 21:29:01; Dark ; 38.5; 12; Alp1Cru ; 0.77; 30000;occ; 77; 0;36098
10; 511.0; 24-JAN-2009 21:30:35; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36098
11; 657.0; 24-JAN-2009 21:33:01; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;36098
12; 789.0; 24-JAN-2009 21:35:13; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;36098
13; 897.2; 24-JAN-2009 21:37:01; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;36098
14; 1052.8; 24-JAN-2009 21:39:37; Dark ; 38.5; 34; Gam2Vel ; 1.79; 23000;occ; 77; 0;36098
15; 1180.1; 24-JAN-2009 21:41:44; Dark ; 36.5; 70; Zet Pup ; 2.25; 39000;occ; 73; 0;36098
16; 1269.1; 24-JAN-2009 21:43:13; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;36098
17; 1416.9; 24-JAN-2009 21:45:41; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;36098
18; 1500.1; 24-JAN-2009 21:47:04; Dark ; 39.5; 179; 240mi2CMa ; 3.03; 24000;occ; 79; 0;36098
19; 1629.9; 24-JAN-2009 21:49:14; Dark ; 45.5; 1; 9Alp CMa ; -1.44; 11000;occ; 91; 0;36098
20; 1995.4; 24-JAN-2009 21:55:19; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;36098
21; 2188.0; 24-JAN-2009 21:58:32; Bright; 38.0; 44; 24Gam Gem ; 1.93; 11000;occ; 76; 0;36098
22; 2295.1; 24-JAN-2009 22:00:19; Bright; 39.5; 151; 13Mu Gem ; 2.89; 3000;occ; 79; 0;36098
23; 2414.2; 24-JAN-2009 22:02:18; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;36098
24; 2549.5; 24-JAN-2009 22:04:33; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;36098
25; 2677.4; 24-JAN-2009 22:06:41; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;36098
26; 3426.8; 24-JAN-2009 22:19:11; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36098
27; 3636.3; 24-JAN-2009 22:22:40; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;36098
28; 3910.4; 24-JAN-2009 22:27:14; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;36098
29; 4085.4; 24-JAN-2009 22:30:09; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;36098
30; 4289.7; 24-JAN-2009 22:33:34; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;36098
31; 4473.2; 24-JAN-2009 22:36:37; Bright; 58.0; 133; 40Zet Her ; 2.81; 6000;occ; 116; 0;36098
32; 4674.3; 24-JAN-2009 22:39:58; Bright; 60.0; 127; 27Bet Her ; 2.78; 4700;occ; 120; 0;36098
33; 4771.4; 24-JAN-2009 22:41:35; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;36098
34; 4898.3; 24-JAN-2009 22:43:42; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;36098
35; 5240.7; 24-JAN-2009 22:49:25; Dark ; 43.0; 98; 13Zet Oph ; 2.57; 30000;occ; 86; 0;36098

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3; -189.1; 24-JAN-2009 22:59:31; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;36098
4; -66.7; 24-JAN-2009 23:01:33; Dark ; 43.0; 109; Bet Lup ; 2.68; 26000;occ; 86; 0;36098
5; 40.9; 24-JAN-2009 23:03:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36099
6; 143.4; 24-JAN-2009 23:05:03; Dark ; 55.0; 4; Alp1Cen ; -0.01; 5800;occ; 110; 0;36099
7; 235.3; 24-JAN-2009 23:06:35; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;36099
8; 417.0; 24-JAN-2009 23:09:37; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;36099
9; 511.8; 24-JAN-2009 23:11:12; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36099
10; 657.8; 24-JAN-2009 23:13:38; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;36099

11; 789.6; 24-JAN-2009 23:15:49; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;36099
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 13; 1053.7; 24-JAN-2009 23:20:13; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;36099
 14; 1179.9; 24-JAN-2009 23:22:20; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;36099
 15; 1269.2; 24-JAN-2009 23:23:49; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;36099
 16; 1416.6; 24-JAN-2009 23:26:16; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;36099
 17; 1499.6; 24-JAN-2009 23:27:39; Dark ; 39.5; 179; 240mi2CMA ; 3.03; 24000;occ; 79; 0;36099
 18; 1629.4; 24-JAN-2009 23:29:49; Dark ; 43.5; 1; 9Alp CMA ; -1.44; 11000;occ; 87; 0;36099
 19; 1995.4; 24-JAN-2009 23:35:55; Dark ; 50.0; 8; 10Alp CMI ; 0.40; 6500;occ; 100; 0;36099
 20; 2188.5; 24-JAN-2009 23:39:08; Bright; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;36099
 21; 2295.5; 24-JAN-2009 23:40:55; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;36099
 22; 2414.2; 24-JAN-2009 23:42:54; Bright; 41.5; 17; 78Bet Gem ; 1.16; 4500;occ; 83; 0;36099
 23; 2549.5; 24-JAN-2009 23:45:09; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;36099
 24; 2677.5; 24-JAN-2009 23:47:17; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;36099
 25; 3426.3; 24-JAN-2009 23:59:46; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;36099
 26; 3635.7; 25-JAN-2009 00:03:15; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;36099
 27; 3910.4; 25-JAN-2009 00:07:50; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;36099
 28; 4085.4; 25-JAN-2009 00:10:45; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;36099
 29; 4289.7; 25-JAN-2009 00:14:09; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;36099
 30; 4473.3; 25-JAN-2009 00:17:13; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;36099
 31; 4674.7; 25-JAN-2009 00:20:34; Bright; 60.0; 127; 27Bet Her ; 2.78; 4700;occ; 120; 0;36099
 32; 4771.4; 25-JAN-2009 00:22:11; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;36099
 33; 4897.9; 25-JAN-2009 00:24:18; Bright; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;36099
 34; 5240.9; 25-JAN-2009 00:30:01; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36099

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 3; -1950.6; 24-JAN-2009 07:24:46; Bright; 53.0; 130; 23Bet Dra ; 2.80; 5800;occ; 106; 0;36089
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 10; -443.0; 24-JAN-2009 07:49:54; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36089
 11; -195.3; 24-JAN-2009 07:54:01; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 0;36089
 12; -74.2; 24-JAN-2009 07:56:02; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36089
 13; 35.1; 24-JAN-2009 07:57:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36090
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 17; 504.8; 24-JAN-2009 08:05:41; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;36090
 18; 655.5; 24-JAN-2009 08:08:12; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;36090
 19; 786.0; 24-JAN-2009 08:10:23; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;36090
 20; 894.4; 24-JAN-2009 08:12:11; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;36090
 21; 1050.9; 24-JAN-2009 08:14:47; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;36090
 22; 1177.2; 24-JAN-2009 08:16:54; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;36090
 23; 1267.3; 24-JAN-2009 08:18:24; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;36090
 24; 1415.1; 24-JAN-2009 08:20:52; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;36090
 25; 1498.1; 24-JAN-2009 08:22:15; Dark ; 39.0; 179; 240mi2CMA ; 3.03; 24000;occ; 78; 0;36090
 26; 1628.4; 24-JAN-2009 08:24:25; Dark ; 27.5; 1; 9Alp CMA ; -1.44; 11000;occ; 55; 0;36090

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 22; 6175.2; 24-JAN-2009 09:40:12; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;36090
 23; 6265.3; 24-JAN-2009 09:41:42; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;36090
 24; 6448.8; 24-JAN-2009 09:44:45; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;36090
 25; 6541.2; 24-JAN-2009 09:46:18; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36090
 26; 6691.3; 24-JAN-2009 09:48:48; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;36090
 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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 29; 7087.4; 24-JAN-2009 09:55:24; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 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
 32; 7451.6; 24-JAN-2009 10:01:28; Dark ; 39.5; 23; 21Eps CMA ; 1.50; 26000;occ; 79; 0;36090
 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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 22; 6176.0; 24-JAN-2009 11:20:48; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;36091
 23; 6265.8; 24-JAN-2009 11:22:18; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;36091
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 27; 6822.7; 24-JAN-2009 11:31:35; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;36091
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 32; 7451.5; 24-JAN-2009 11:42:04; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;36091
 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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 21; 5964.4; 24-JAN-2009 12:57:53; Dark ; 42.5; 109; Bet Lup ; 2.68; 26000;occ; 85; 0;36092
 22; 6072.9; 24-JAN-2009 12:59:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36092
 23; 6176.9; 24-JAN-2009 13:01:25; Dark ; 40.0; 4; Alp1Cen ;-0.01; 5800;occ; 80; 0;36092
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 26; 6543.1; 24-JAN-2009 13:07:31; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36092
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 32; 7304.1; 24-JAN-2009 13:20:12; Dark ; 40.0; 117; Pi Pup ; 2.71; 3800;occ; 80; 0;36092
 33; 7451.8; 24-JAN-2009 13:22:40; Dark ; 36.5; 23; 21Eps CMA ; 1.50; 26000;occ; 73; 0;36092

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 33; 7303.8; 24-JAN-2009 15:00:48; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;36093

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 13; 1053.6; 25-JAN-2009 01:00:49; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;36100
 14; 1180.4; 25-JAN-2009 01:02:56; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;36100
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16;	6050.0;	31-JAN-2009	12:39:11;	Dark	;	39.0;	109;	Bet Lup	;	2.68;	26000;occ;	78;	0;	36192
17;	6140.3;	31-JAN-2009	12:40:41;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	36192
18;	6228.2;	31-JAN-2009	12:42:09;	Dark	;	34.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	69;	0;	36192
19;	6344.6;	31-JAN-2009	12:44:06;	Dark	;	37.5;	77;	Eps Cen	;	2.30;	28000;occ;	75;	0;	36192
20;	6504.4;	31-JAN-2009	12:46:46;	Dark	;	34.0;	12;	Alp1Cru	;	0.77;	30000;occ;	68;	0;	36192
21;	6624.7;	31-JAN-2009	12:48:46;	Dark	;	39.0;	99;	Del Cen	;	2.58;	26000;occ;	78;	0;	36192
22;	6743.6;	31-JAN-2009	12:50:45;	Dark	;	31.5;	159;	Ups Car	;	2.92;	7200;occ;	63;	0;	36192
23;	6858.6;	31-JAN-2009	12:52:40;	Dark	;	31.5;	71;	Iot Car	;	2.25;	7700;occ;	63;	0;	36192
24;	6963.8;	31-JAN-2009	12:54:25;	Dark	;	31.0;	46;	Del Vel	;	1.95;	10600;occ;	62;	0;	36192
25;	7115.0;	31-JAN-2009	12:56:56;	Dark	;	30.5;	34;	Gam2Vel	;	1.79;	23000;occ;	61;	0;	36192
26;	7240.2;	31-JAN-2009	12:59:01;	Dark	;	31.0;	70;	Zet Pup	;	2.25;	39000;occ;	62;	0;	36192
27;	7447.5;	31-JAN-2009	13:02:29;	Dark	;	29.5;	88;	31Eta CMa	;	2.45;	20000;occ;	59;	0;	36192