

GOMOS Daily Report 19-JAN-2007

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	21JAN2007 05:32:53
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (19JAN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (20JAN2007 00:00:00)
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)

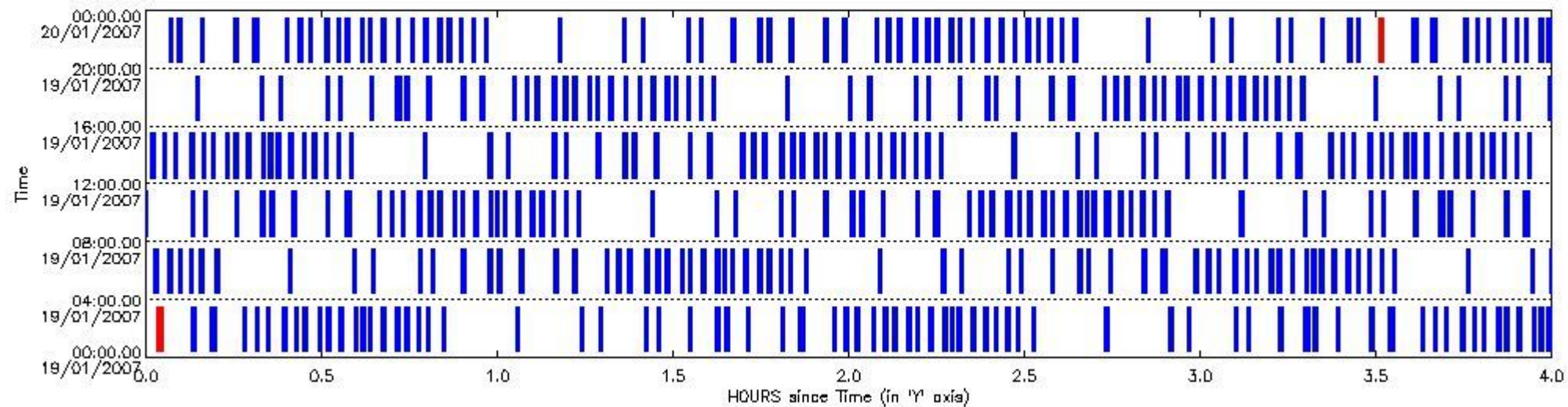
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

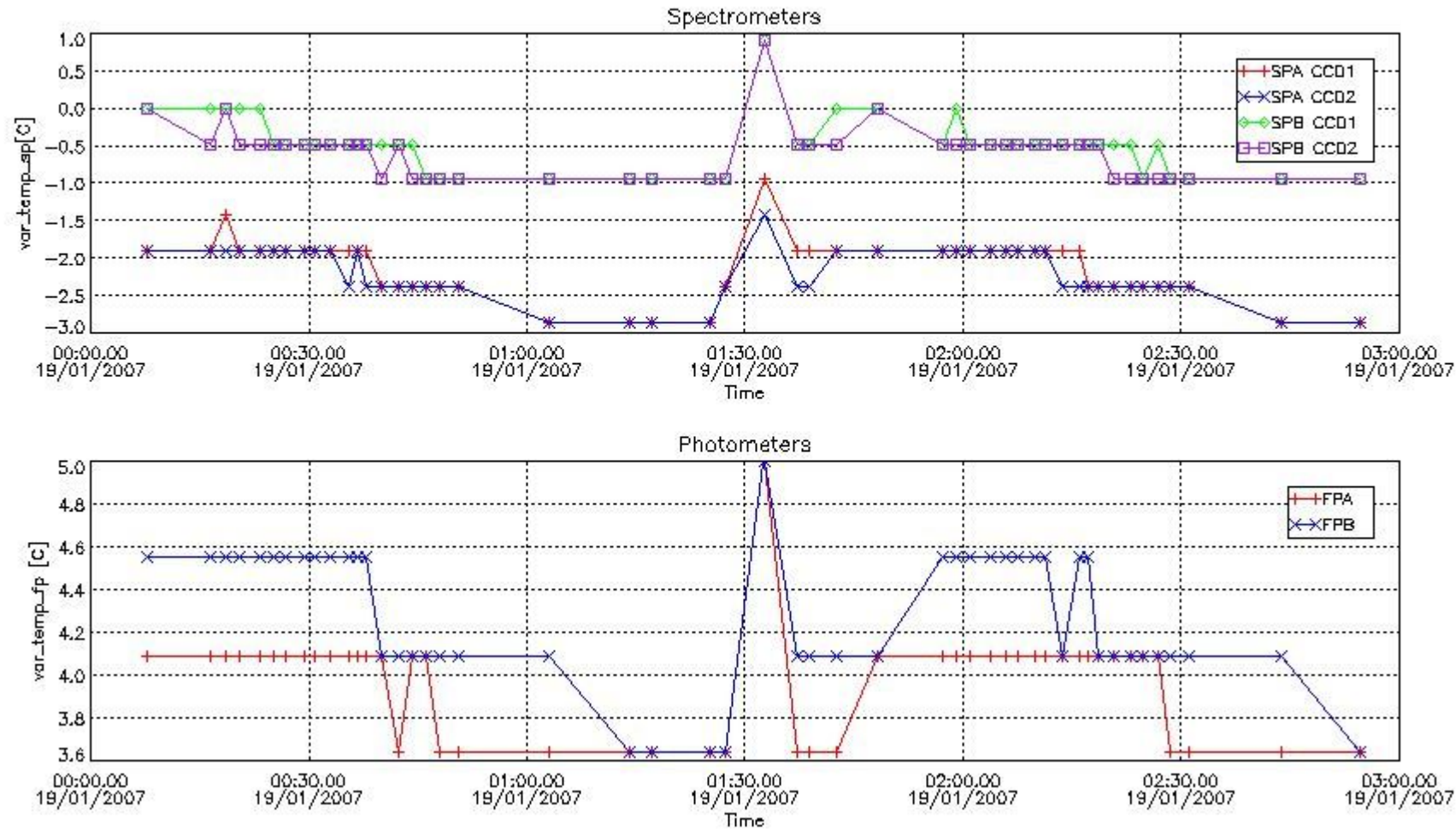
UTC start time	Star name	Star ID	Orbit
19-JAN-2007 00:01:49	GamLup	131	25549
19-JAN-2007 23:30:20	GamLup	131	25563

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_1PNPDE20070119_000739_000000532054_00446_25550_2682.N1	19-JAN-2007 00:07:39	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	25550	No
2	GOM_TRA_1PNPDE20070119_001632_000000382054_00446_25550_2683.N1	19-JAN-2007 00:16:32	Dark	37.500	29	Bet Car	1.6720	10200.	75	25550	No
3	GOM_TRA_1PNPDE20070119_001833_000000412054_00446_25550_2684.N1	19-JAN-2007 00:18:33	Dark	41.000	71	lot Car	2.2460	7700.0	82	25550	No
4	GOM_TRA_1PNPDE20070119_002024_000000412054_00446_25550_2685.N1	19-JAN-2007 00:20:24	Dark	41.000	46	Del Vel	1.9540	10600.	82	25550	No
5	GOM_TRA_1PNPDE20070119_002312_000000442054_00446_25550_2686.N1	19-JAN-2007 00:23:12	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	25550	No
6	GOM_TRA_1PNPDE20070119_002512_000000412054_00446_25550_2687.N1	19-JAN-2007 00:25:12	Dark	41.000	70	Zet Pup	2.2460	39000.	82	25550	No
7	GOM_TRA_1PNPDE20070119_002648_000000442054_00446_25550_2688.N1	19-JAN-2007 00:26:48	Straylight	44.000	117	Pi Pup	2.7060	3800.0	88	25550	No
8	GOM_TRA_1PNPDE20070119_002919_000000422054_00446_25550_2689.N1	19-JAN-2007 00:29:19	Straylight	41.500	23	21Eps CMa	1.5020	26000.	83	25550	No
9	GOM_TRA_1PNPDE20070119_003044_000000402054_00446_25550_2690.N1	19-JAN-2007 00:30:44	Straylight	40.000	179	24Omi2CMa	3.0320	24000.	80	25550	No

10	GOM_TRA_1PNPDE20070119_003255_000000442054_00446_25550_2691.N1	19-JAN-2007 00:32:55	Straylight	44.000	1	9Alp CMa	-1.4400	11000.	88	25550	No
11	GOM_TRA_1PNPDE20070119_003526_000000412054_00446_25550_2692.N1	19-JAN-2007 00:35:26	Straylight	41.000	56	53Kap Ori	2.0650	30000.	82	25550	No
12	GOM_TRA_1PNPDE20070119_003637_000000392054_00446_25550_2693.N1	19-JAN-2007 00:36:37	Twilight	39.000	125	44Iot Ori	2.7700	30000.	78	25550	No
13	GOM_TRA_1PNPDE20070119_003755_000000402054_00446_25550_2694.N1	19-JAN-2007 00:37:55	Twilight	39.500	30	46Eps Ori	1.6940	30000.	79	25550	No
14	GOM_TRA_1PNPDE20070119_004005_000000502054_00446_25550_2695.N1	19-JAN-2007 00:40:05	Twilight	49.500	14	58Alp Ori	0.87000	3000.0	99	25550	No
15	GOM_TRA_1PNPDE20070119_004227_000000512054_00446_25550_2696.N1	19-JAN-2007 00:42:27	Bright	50.500	44	24Gam Gem	1.9280	11000.	101	25550	No
16	GOM_TRA_1PNPDE20070119_004411_000000412054_00446_25550_2697.N1	19-JAN-2007 00:44:11	Bright	40.500	151	13Mu Gem	2.8900	3000.0	81	25550	No
17	GOM_TRA_1PNPDE20070119_004613_000000362054_00446_25550_2698.N1	19-JAN-2007 00:46:13	Bright	36.000	28	12Bet Tau	1.6500	15200.	72	25550	No
18	GOM_TRA_1PNPDE20070119_004753_000000382054_00446_25550_2699.N1	19-JAN-2007 00:47:53	Bright	38.000	114	3Iot Aur	2.6930	4600.0	76	25550	No
19	GOM_TRA_1PNPDE20070119_005032_000000352054_00446_25550_2700.N1	19-JAN-2007 00:50:32	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	25550	No
20	GOM_TRA_1PNPDE20070119_010305_000000332054_00446_25550_2701.N1	19-JAN-2007 01:03:05	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	25550	No
21	GOM_TRA_1PNPDE20070119_011401_000000372054_00446_25550_2702.N1	19-JAN-2007 01:14:01	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	25550	No
22	GOM_TRA_1PNPDE20070119_011714_000000362054_00446_25550_2703.N1	19-JAN-2007 01:17:14	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	25550	No
23	GOM_TRA_1PNPDE20070119_012511_000000332054_00446_25550_2704.N1	19-JAN-2007 01:25:11	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	25550	No
24	GOM_TRA_1PNPDE20070119_012718_000000332054_00446_25550_2705.N1	19-JAN-2007 01:27:18	Bright	33.000	126	60Bet Oph	2.7700	4250.0	66	25550	No
25	GOM_TRA_1PNPDE20070119_013238_000000372054_00446_25550_2825.N1	19-JAN-2007 01:32:38	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	25550	No
26	GOM_TRA_1PNPDE20070119_013706_000000542054_00446_25550_2826.N1	19-JAN-2007 01:37:06	Twilight	54.000	16	21Alp Sco	1.0200	3000.0	108	25550	No
27	GOM_TRA_1PNPDE20070119_013843_000000452054_00446_25550_2827.N1	19-JAN-2007 01:38:43	Twilight	44.500	75	26Eps Sco	2.2910	4250.0	89	25550	No
28	GOM_TRA_1PNPDE20070119_014229_000000392054_00446_25550_2828.N1	19-JAN-2007 01:42:29	Dark	38.500	131	Gam Lup	2.8000	26000.	77	25550	No
29	GOM_TRA_1PNPDE20070119_014815_000000412054_00447_25551_2829.N1	19-JAN-2007 01:48:15	Dark	41.000	4	Alp1Cen	-0.010000	5800.0	82	25551	No
30	GOM_TRA_1PNPDE20070119_015708_000000402054_00447_25551_2830.N1	19-JAN-2007 01:57:08	Dark	39.500	29	Bet Car	1.6720	10200.	79	25551	No
31	GOM_TRA_1PNPDE20070119_015909_000000392054_00447_25551_2831.N1	19-JAN-2007 01:59:09	Dark	38.500	71	Iot Car	2.2460	7700.0	77	25551	No
32	GOM_TRA_1PNPDE20070119_020100_000000392054_00447_25551_2832.N1	19-JAN-2007 02:01:00	Dark	39.000	46	Del Vel	1.9540	10600.	78	25551	No
33	GOM_TRA_1PNPDE20070119_020348_000000442054_00447_25551_2833.N1	19-JAN-2007 02:03:48	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	25551	No
34	GOM_TRA_1PNPDE20070119_020548_000000412054_00447_25551_2834.N1	19-JAN-2007 02:05:48	Dark	41.000	70	Zet Pup	2.2460	39000.	82	25551	No
35	GOM_TRA_1PNPDE20070119_020724_000000442054_00447_25551_2835.N1	19-JAN-2007 02:07:24	Straylight	44.000	117	Pi Pup	2.7060	3800.0	88	25551	No
36	GOM_TRA_1PNPDE20070119_020955_000000442054_00447_25551_2836.N1	19-JAN-2007 02:09:55	Straylight	43.500	23	21Eps CMa	1.5020	26000.	87	25551	No
37	GOM_TRA_1PNPDE20070119_021120_000000402054_00447_25551_2837.N1	19-JAN-2007 02:11:20	Straylight	39.500	179	24Omi2CMa	3.0320	24000.	79	25551	No
38	GOM_TRA_1PNPDE20070119_021331_000000512054_00447_25551_2838.N1	19-JAN-2007 02:13:31	Straylight	50.500	1	9Alp CMa	-1.4400	11000.	101	25551	No
39	GOM_TRA_1PNPDE20070119_021602_000000432054_00447_25551_2839.N1	19-JAN-2007 02:16:02	Straylight	42.500	56	53Kap Ori	2.0650	30000.	85	25551	No
40	GOM_TRA_1PNPDE20070119_021713_000000382054_00447_25551_2840.N1	19-JAN-2007 02:17:13	Twilight	38.000	125	44Iot Ori	2.7700	30000.	76	25551	No
41	GOM_TRA_1PNPDE20070119_021831_000000432054_00447_25551_2841.N1	19-JAN-2007 02:18:31	Twilight	43.000	30	46Eps Ori	1.6940	30000.	86	25551	No
42	GOM_TRA_1PNPDE20070119_022041_000000502054_00447_25551_2842.N1	19-JAN-2007 02:20:41	Twilight	49.500	14	58Alp Ori	0.87000	3000.0	99	25551	No
43	GOM_TRA_1PNPDE20070119_022302_000000422054_00447_25551_2843.N1	19-JAN-2007 02:23:02	Bright	42.000	44	24Gam Gem	1.9280	11000.	84	25551	No
44	GOM_TRA_1PNPDE20070119_022447_000000392054_00447_25551_2844.N1	19-JAN-2007 02:24:47	Bright	39.000	151	13Mu Gem	2.8900	3000.0	78	25551	No
45	GOM_TRA_1PNPDE20070119_022649_000000362054_00447_25551_2845.N1	19-JAN-2007 02:26:49	Bright	36.000	28	12Bet Tau	1.6500	15200.	72	25551	No
46	GOM_TRA_1PNPDE20070119_022829_000000382054_00447_25551_2846.N1	19-JAN-2007 02:28:29	Bright	38.000	114	3Iot Aur	2.6930	4600.0	76	25551	No
47	GOM_TRA_1PNPDE20070119_023108_000000362054_00447_25551_2847.N1	19-JAN-2007 02:31:08	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	25551	No
48	GOM_TRA_1PNPDE20070119_024341_000000362054_00447_25551_2848.N1	19-JAN-2007 02:43:41	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	25551	No
49	GOM_TRA_1PNPDE20070119_025437_000000482054_00447_25551_3071.N1	19-JAN-2007 02:54:37	Bright	47.500	130	23Bet Dra	2.7990	5800.0	95	25551	No

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



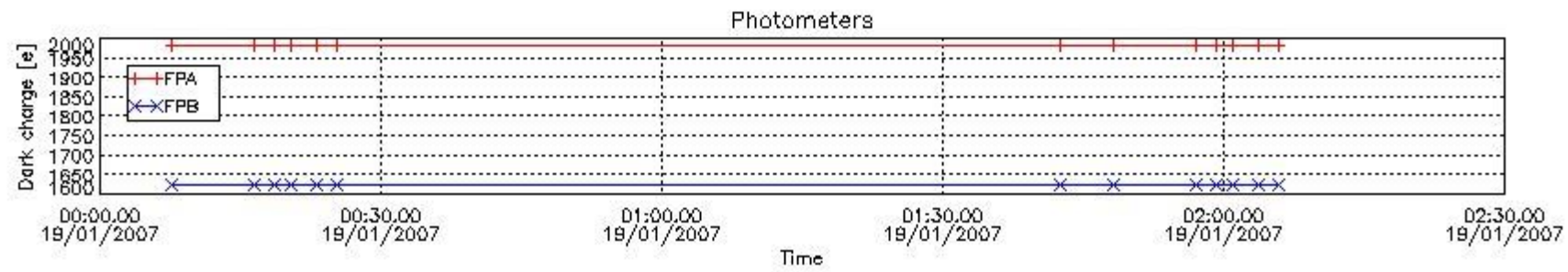
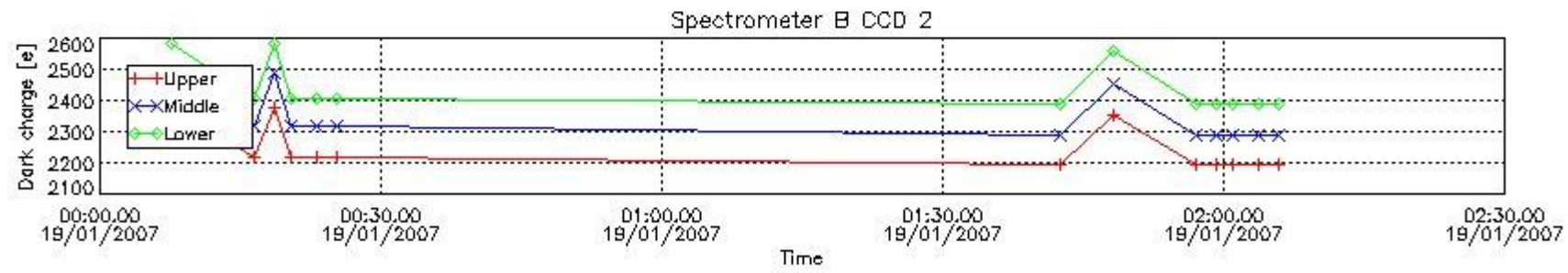
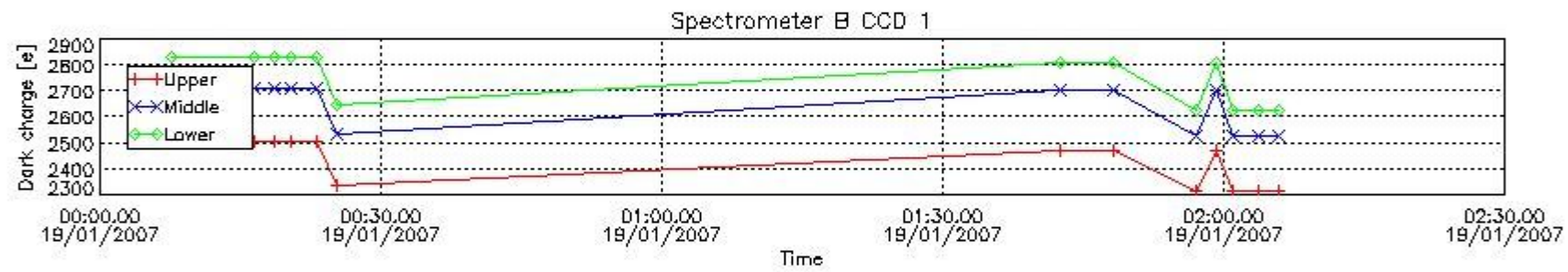
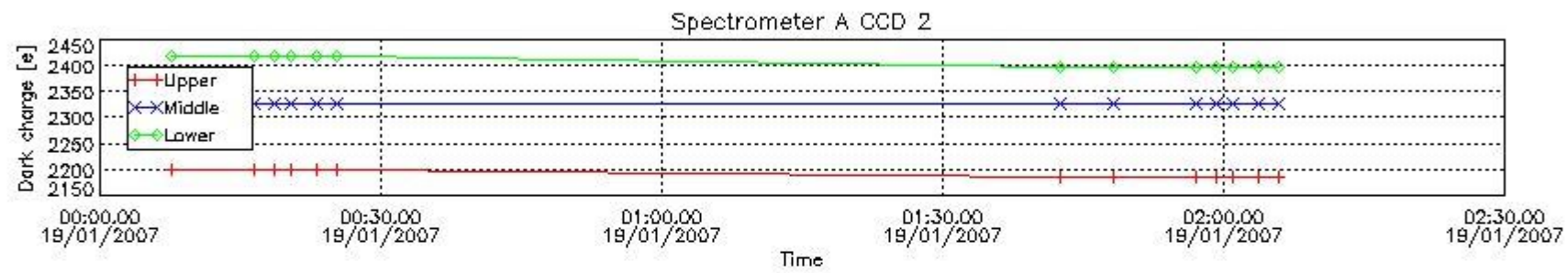
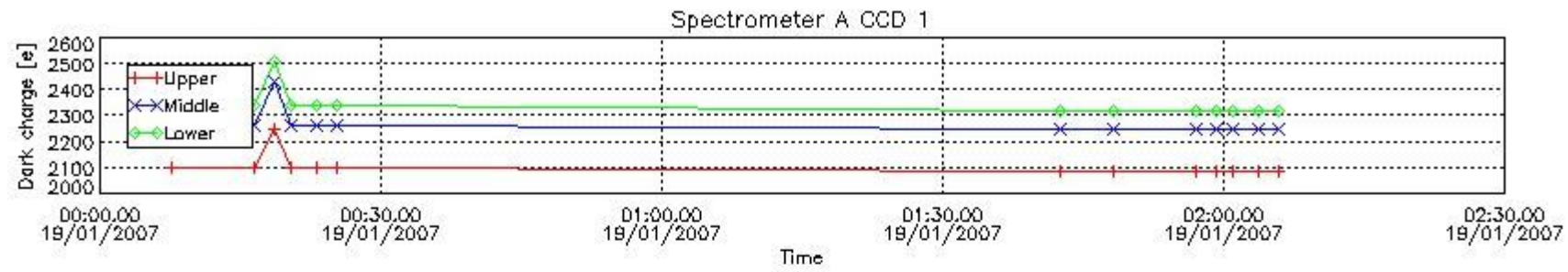
4. Overview of dark signal processing per product

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



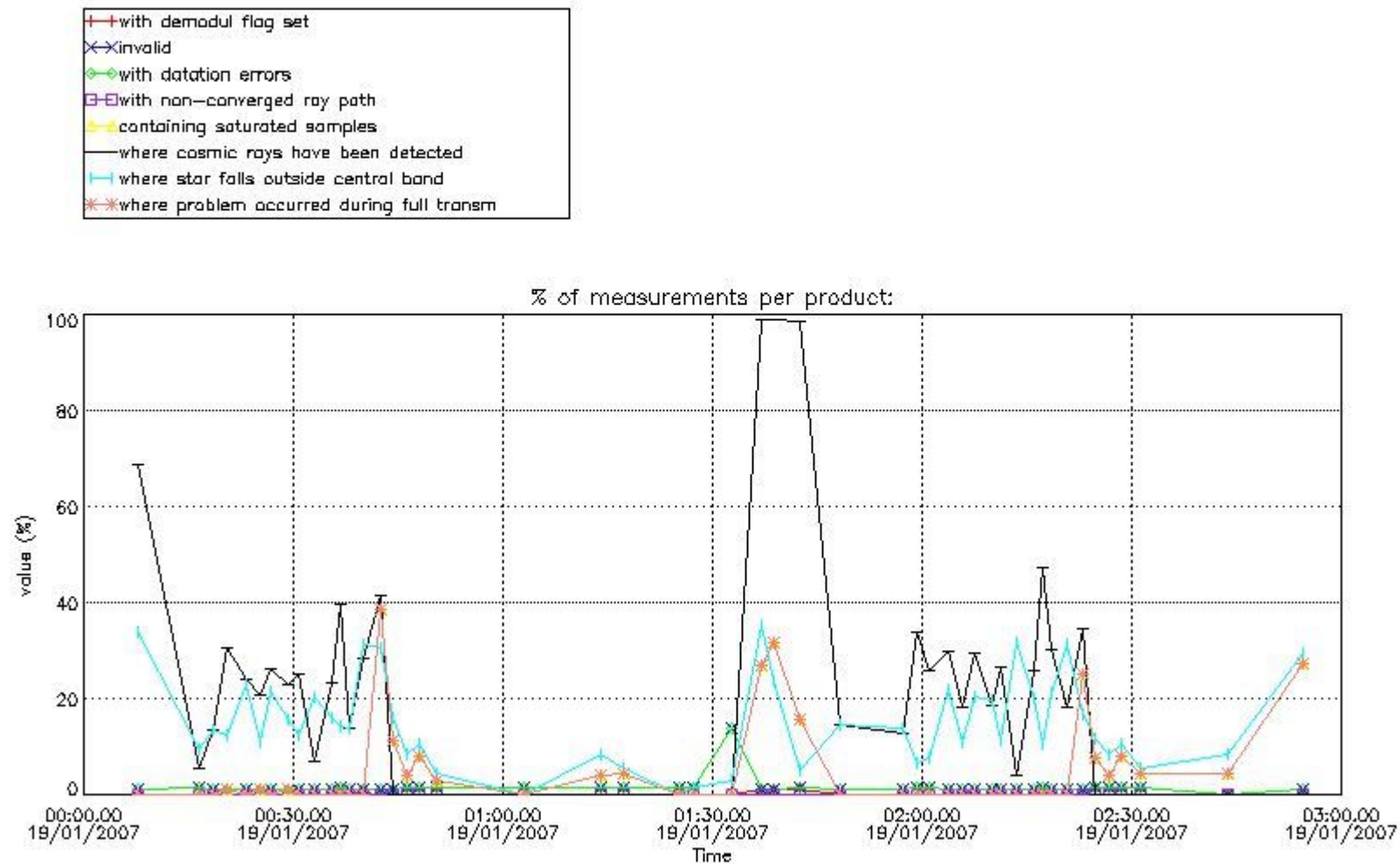
5. Demodulation flag and quality information monitoring

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.

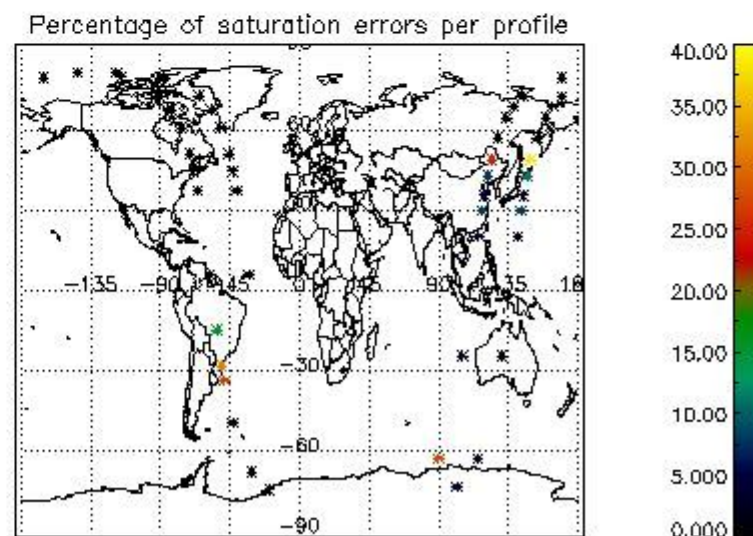
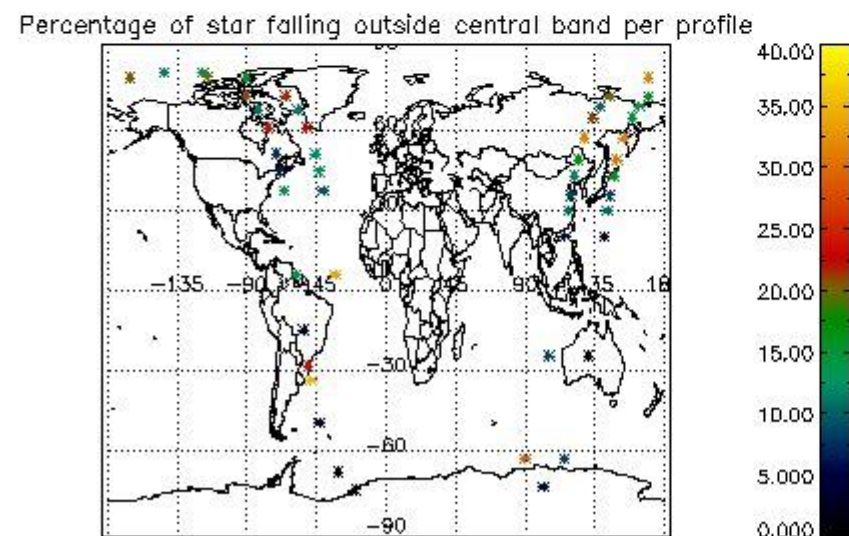
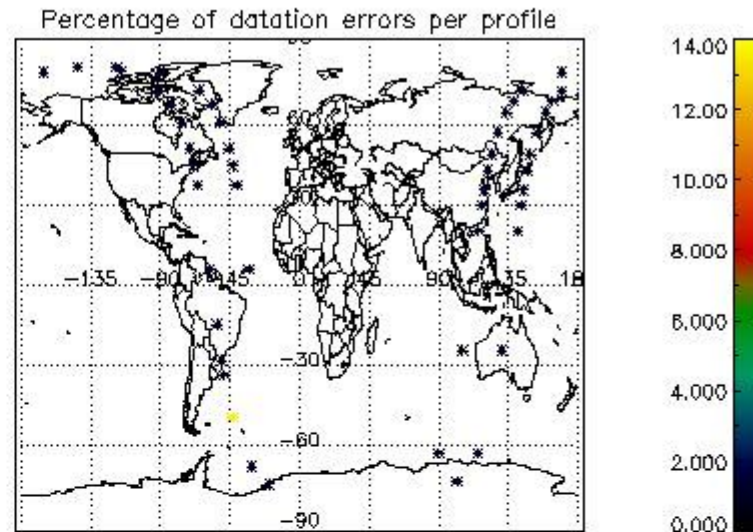
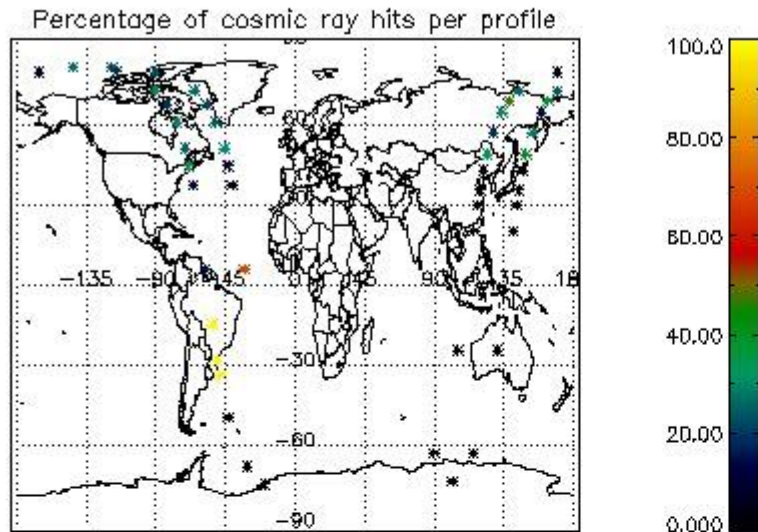
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.5306 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



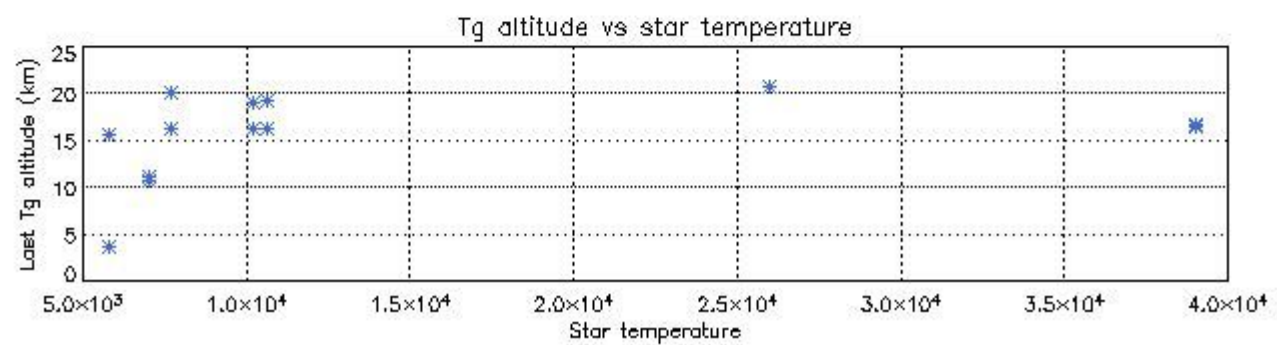
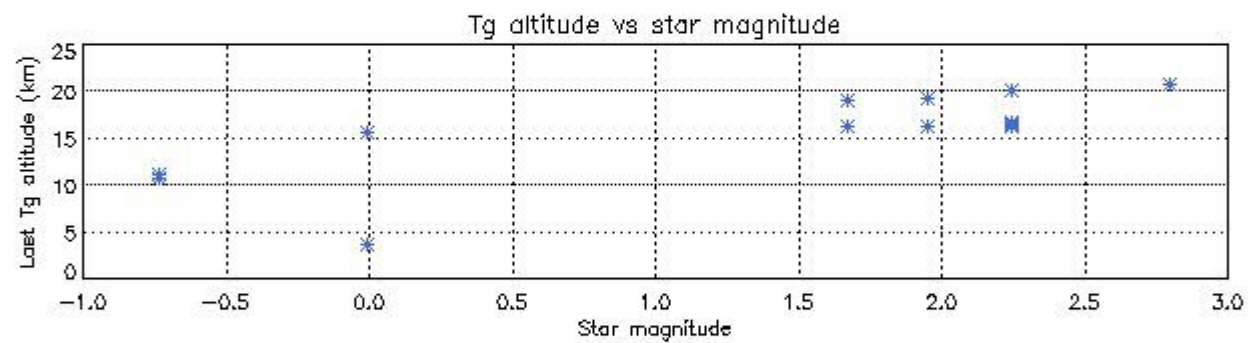
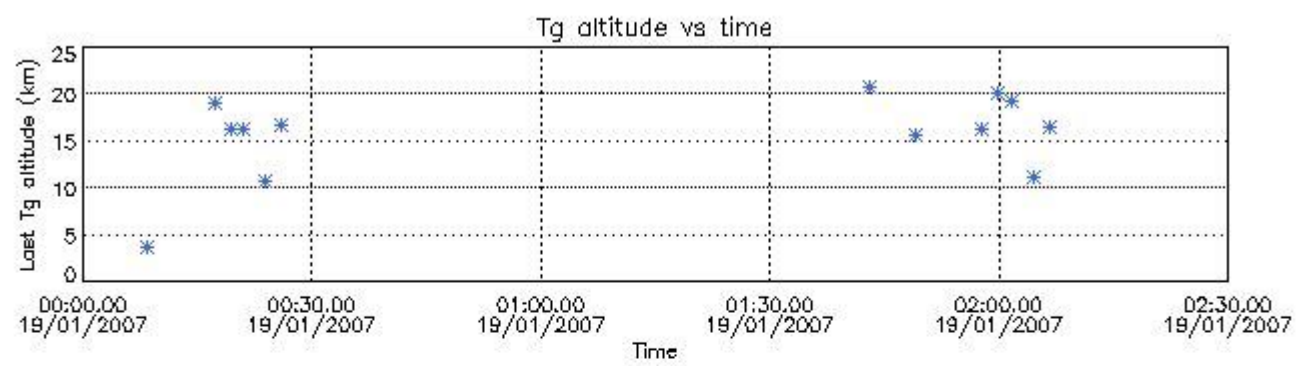
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.513	18.498	6.8666
St. deviation:	4.6736	5.8643	4.3008
Maximum:	20.795	27.494	9.9077
Minimum:	3.7137	6.3233	3.8255
Number of data:	13.000	18.000	2.0000

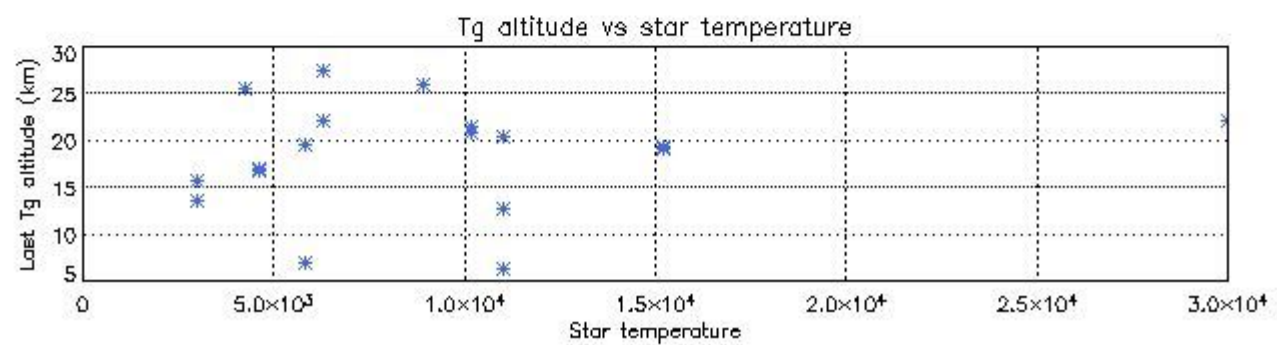
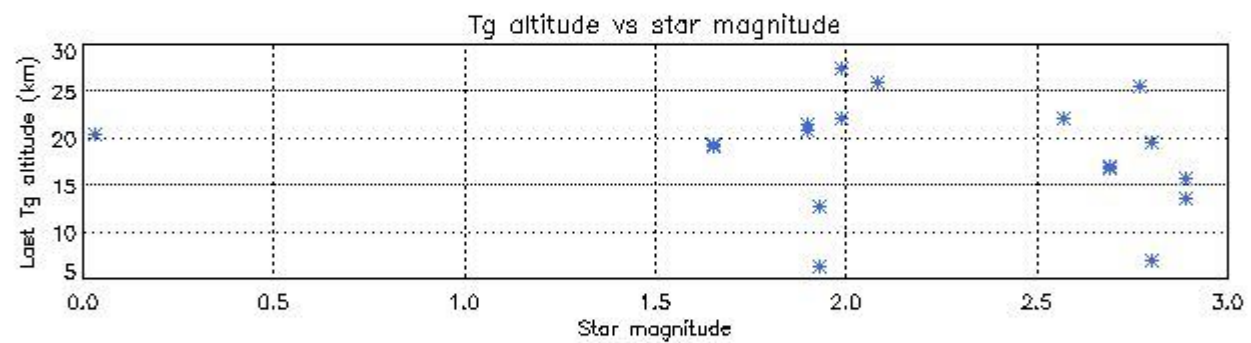
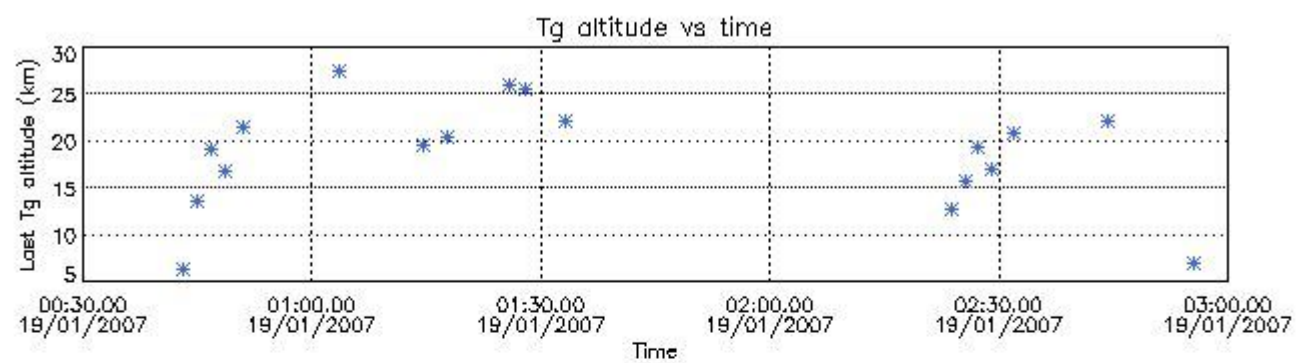
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



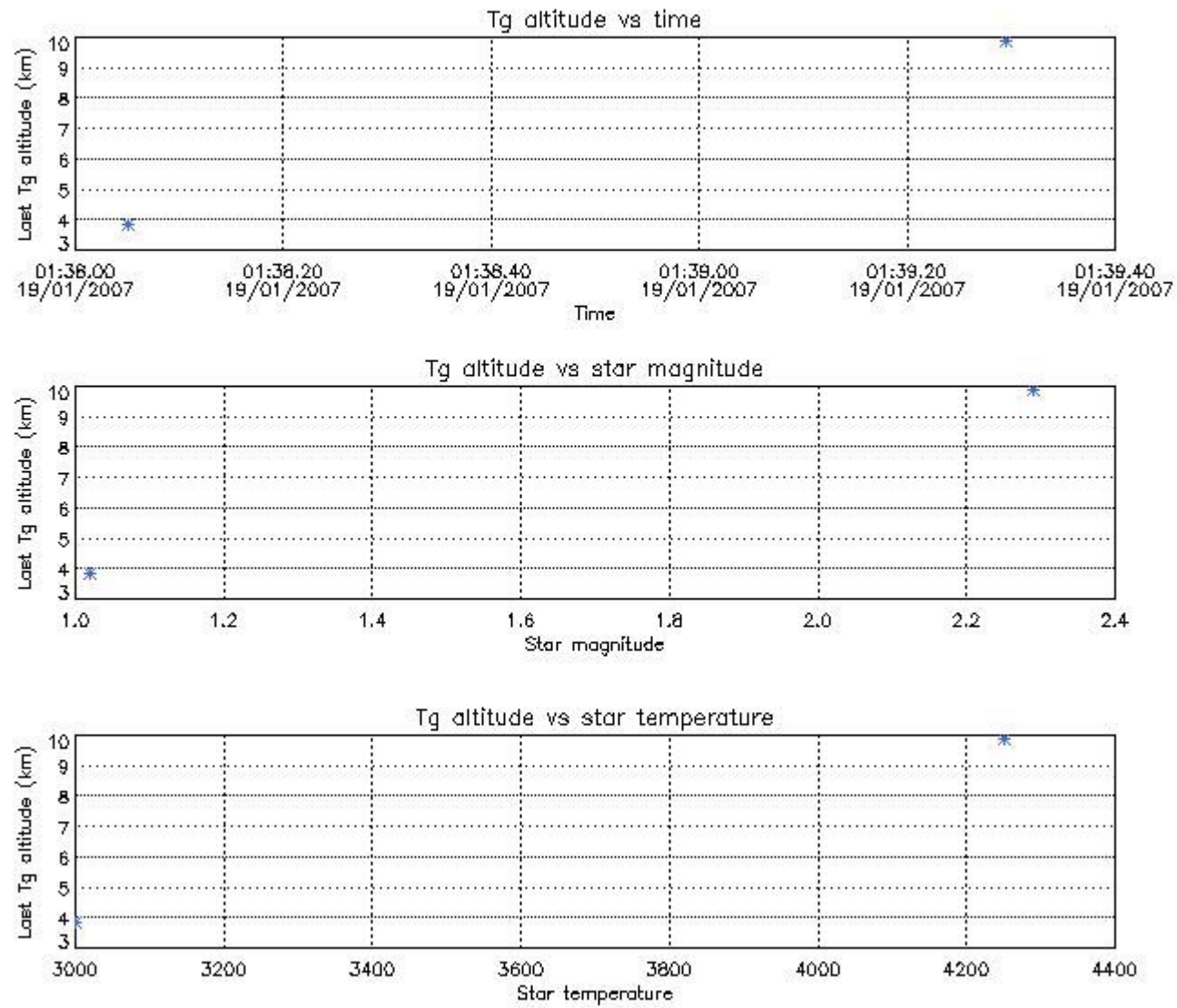
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

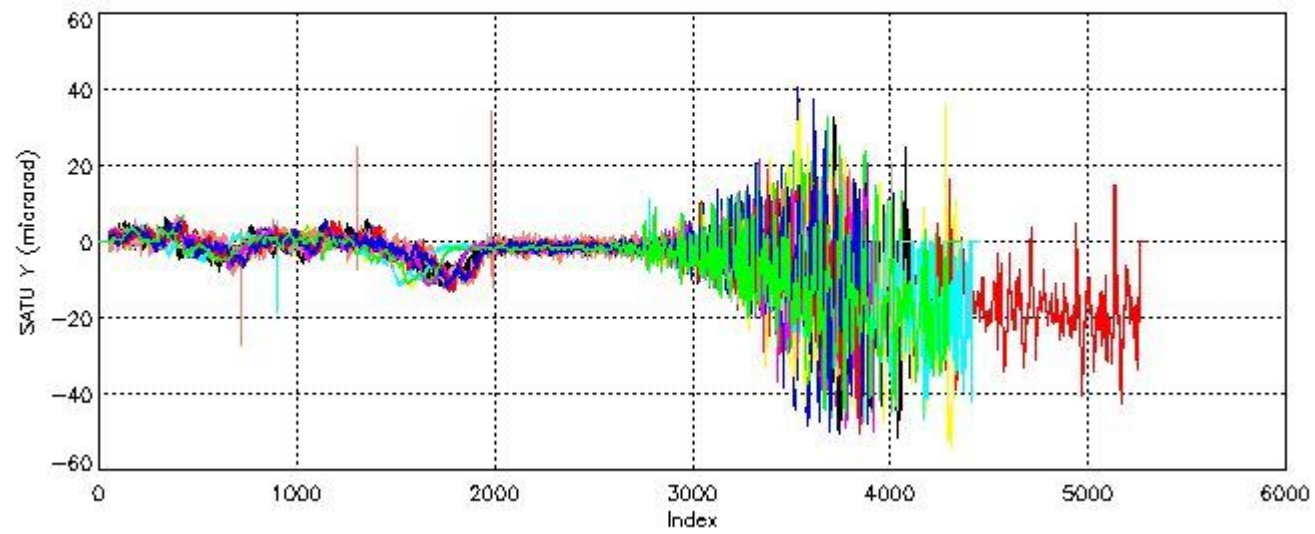
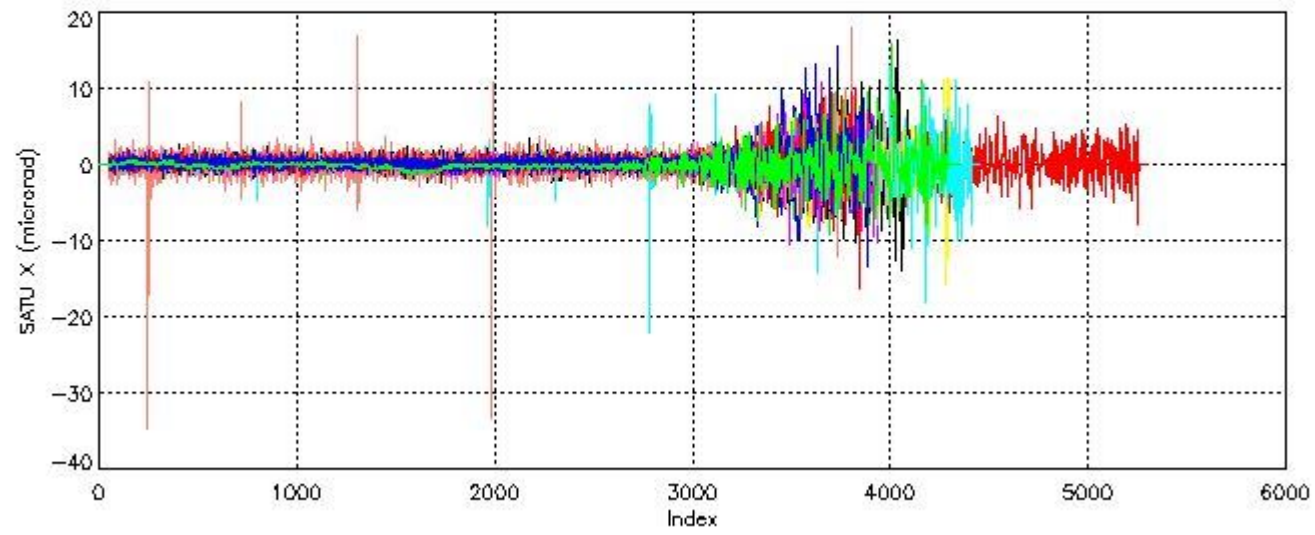


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.10170	-0.27432	-0.0092813	-0.40503
St. deviation:	0.54327	2.3186	0.56101	2.1467
Maximum:	10.700	7.1000	2.8000	5.7000
Minimum:	-34.800	-27.300	-3.2000	-8.0000

Number of data:	11550.	11550.	14700.	14700.
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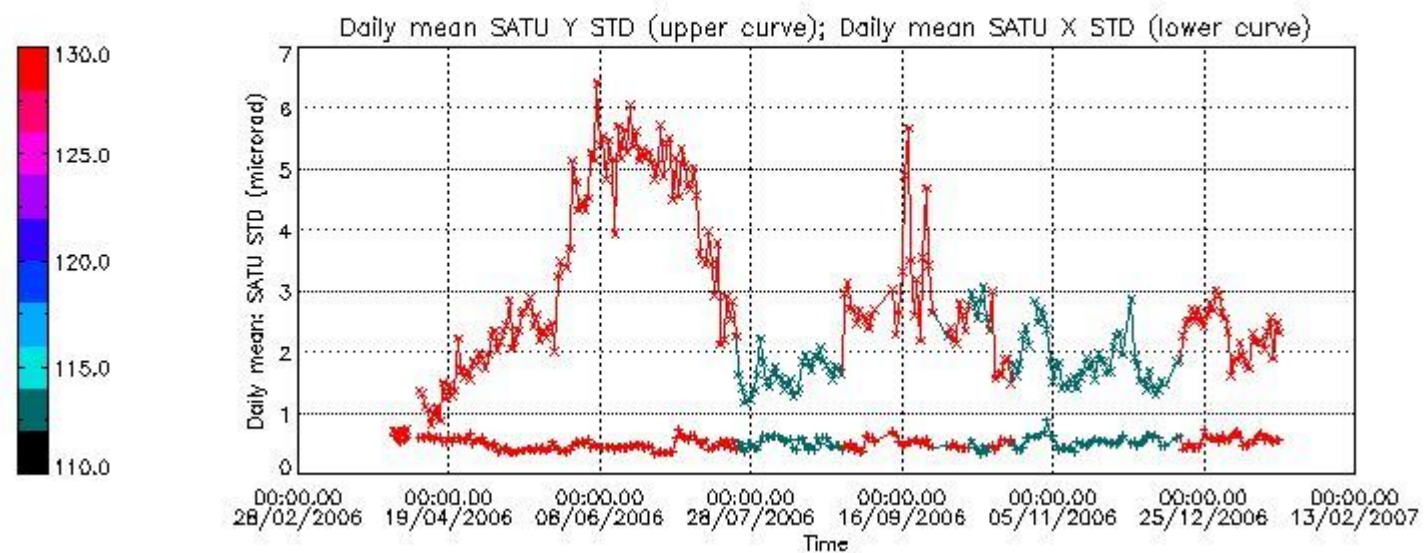
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

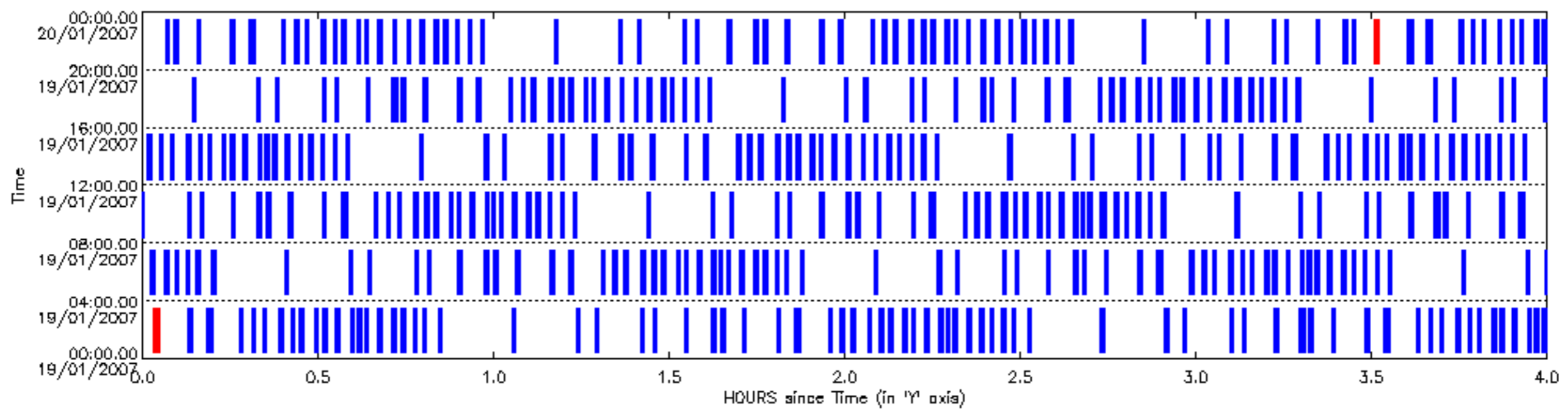
Lower curve: STD of SATU X axis

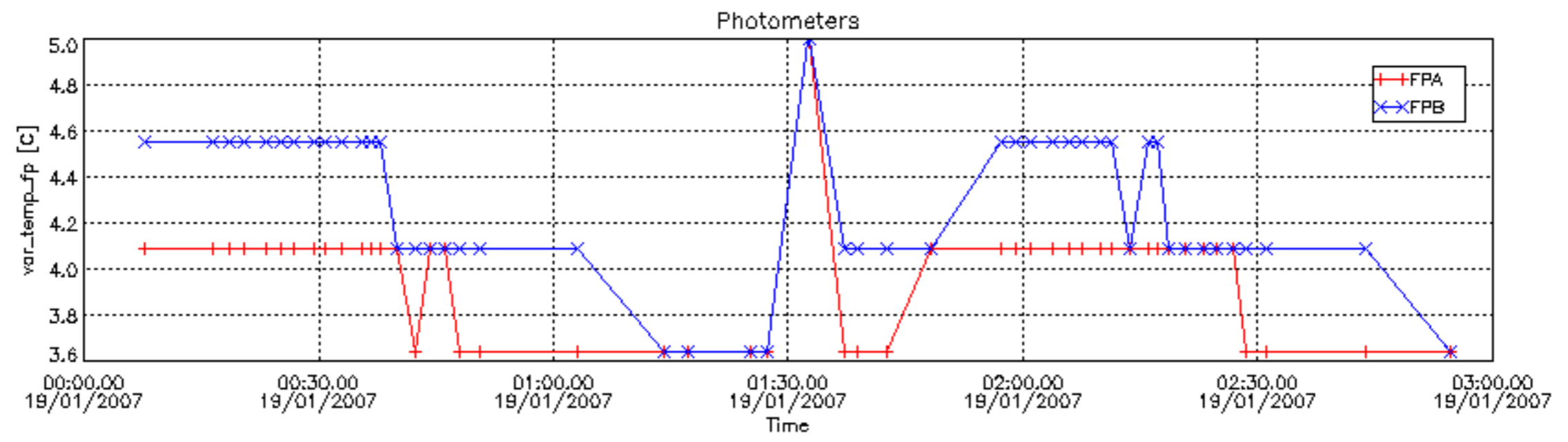
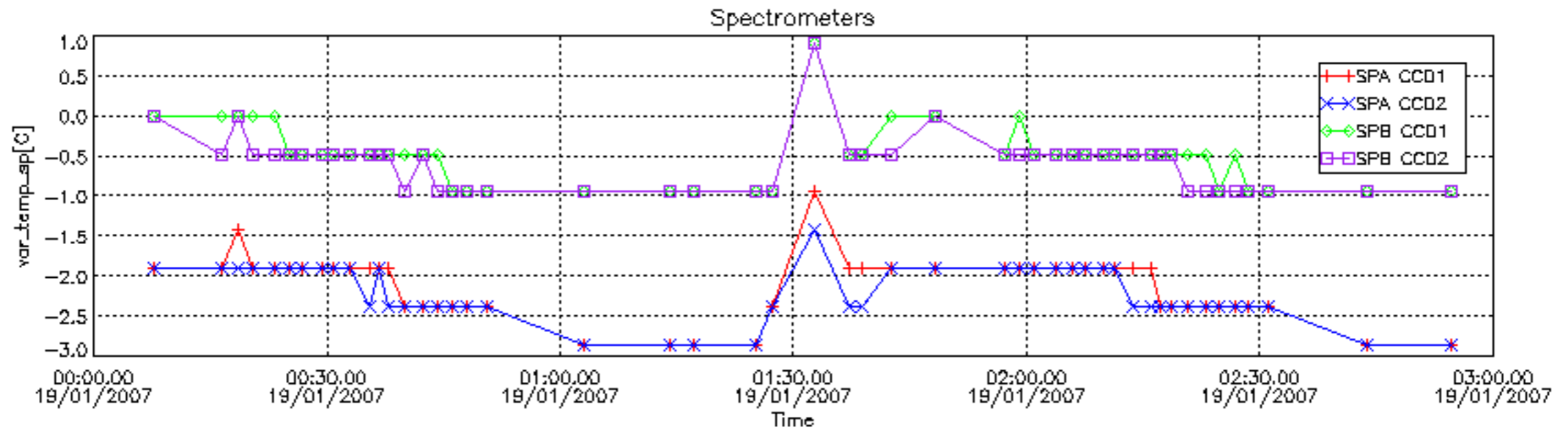


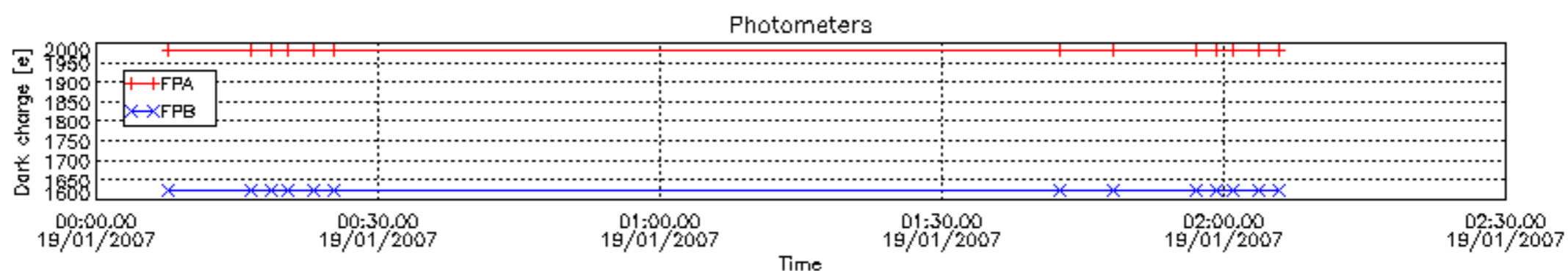
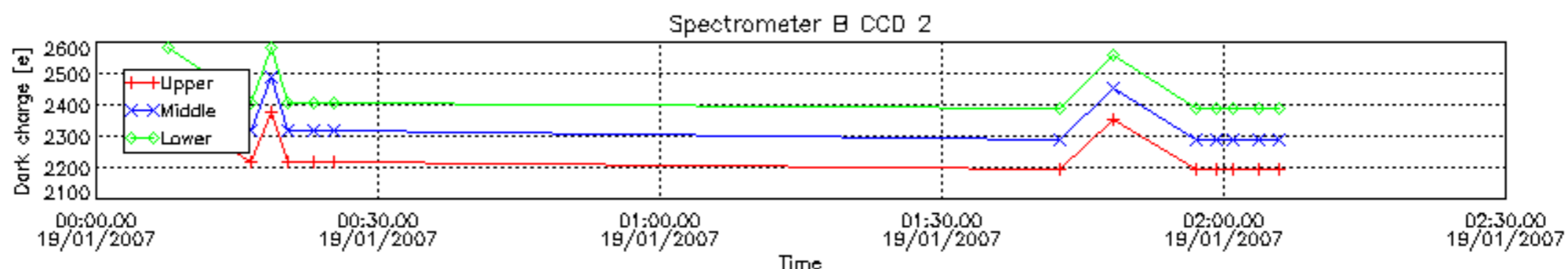
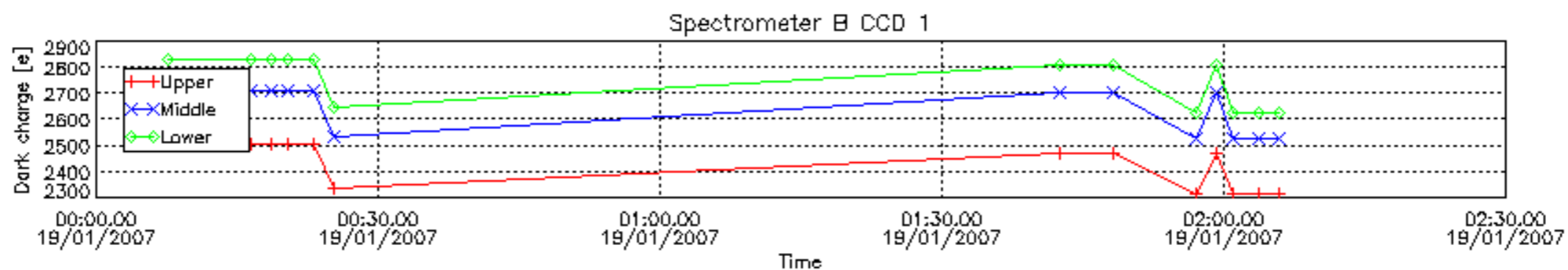
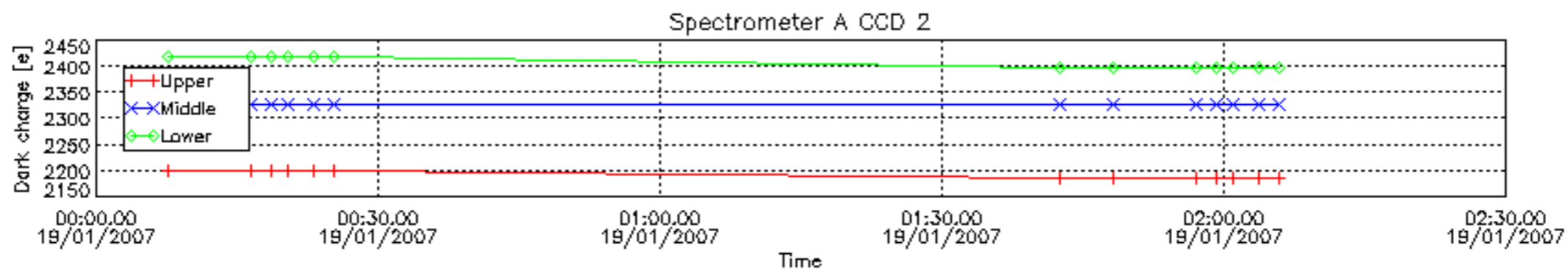
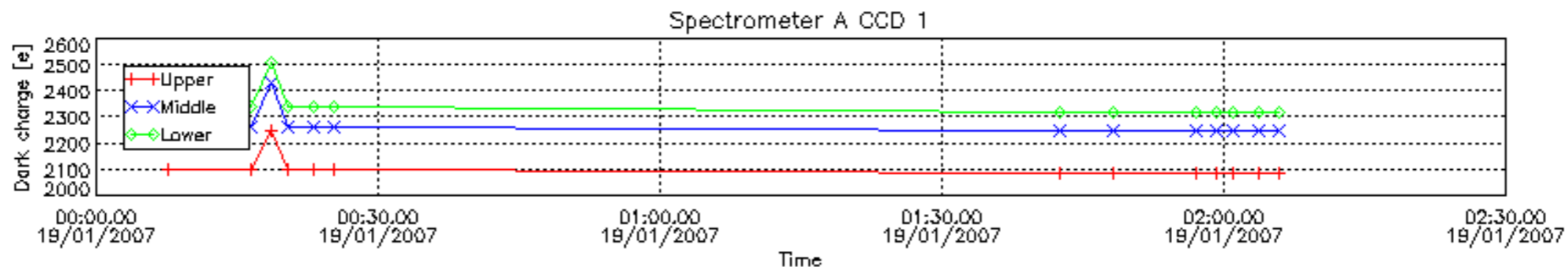
8. Auxiliary Data Files used for the production reported in section 2.4

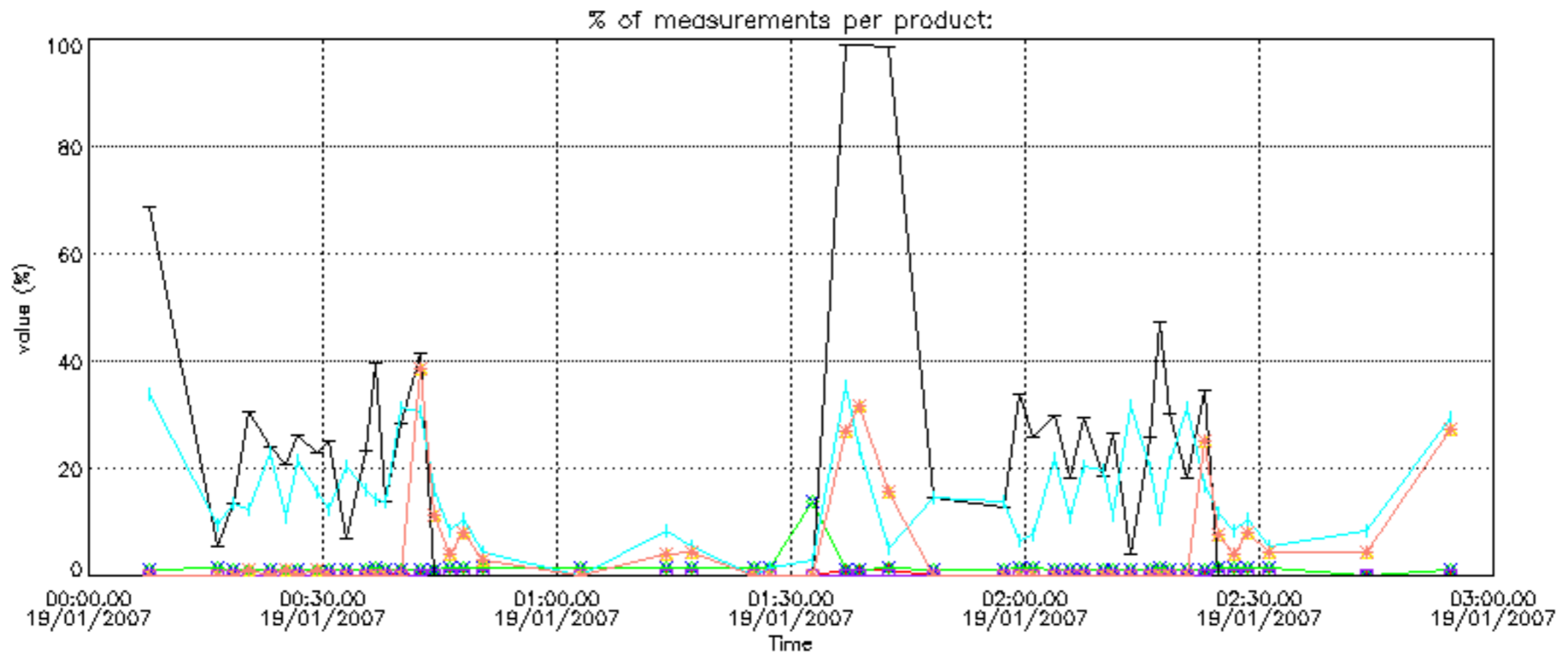
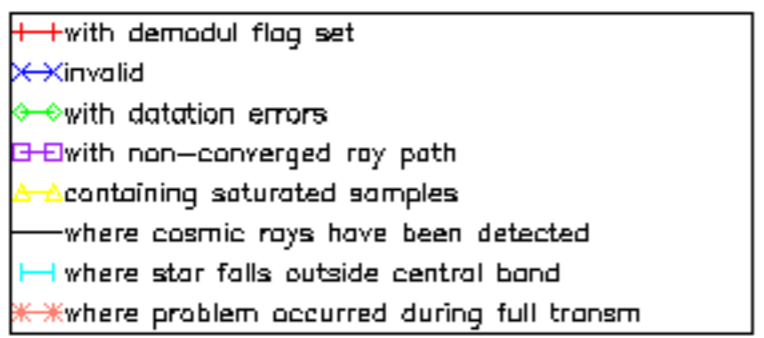
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	19-JAN-2007 00:07:39
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070117_105731_20070116_000000_20100101_000000	1	19-JAN-2007 00:07:39
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	19-JAN-2007 00:07:39
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-JAN-2007 00:07:39
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	19-JAN-2007 00:07:39
ECMWF_FILE	AUX_ECF_AXNECM20070118_104636_20070118_210000_20070119_090000	1	19-JAN-2007 00:07:39
OPTIONAL_ECMWF_FILE	MISSING	1	19-JAN-2007 00:07:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070118_221135_000057382054_00444_25548_2608.N1	1	19-JAN-2007 00:07:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070118_235232_000054192054_00445_25549_2609.N1	25	19-JAN-2007 01:32:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070119_024233_000057382054_00447_25551_2611.N1	49	19-JAN-2007 02:54:37

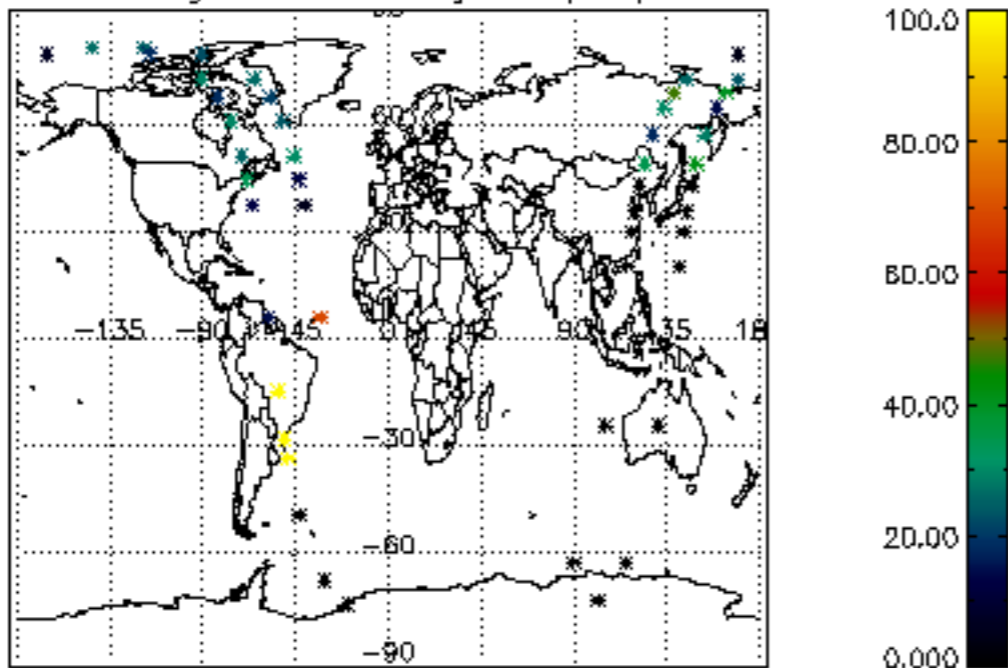




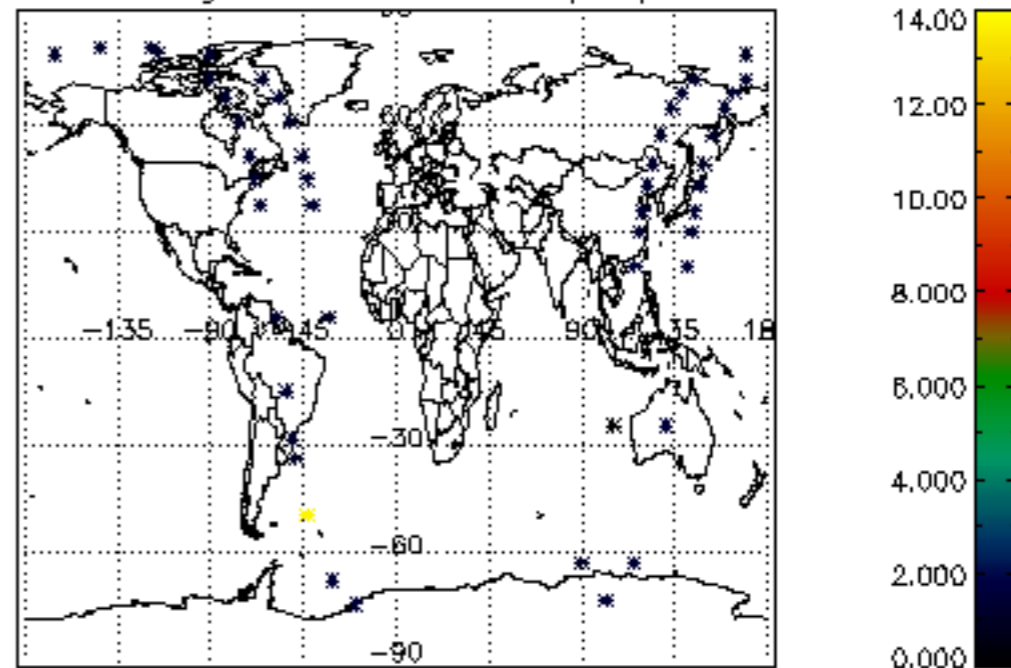




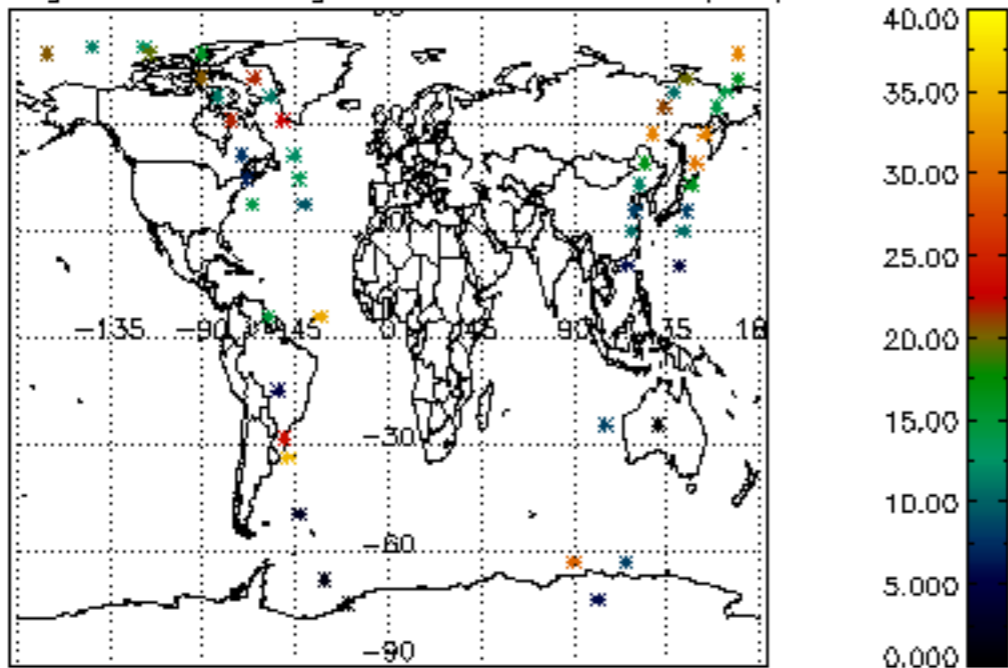
Percentage of cosmic ray hits per profile



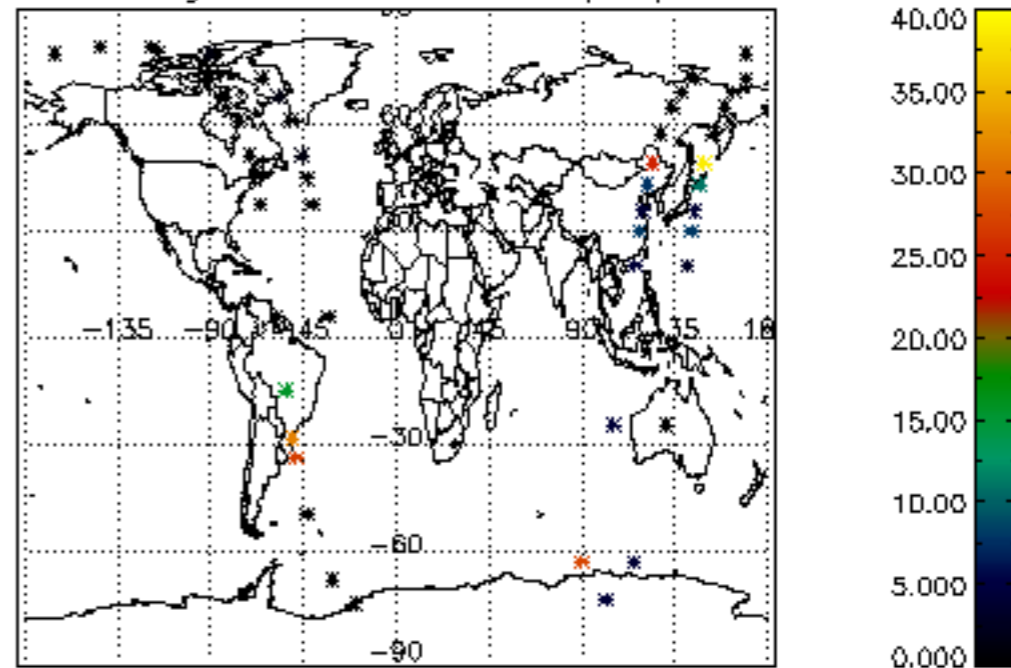
Percentage of datation errors per profile



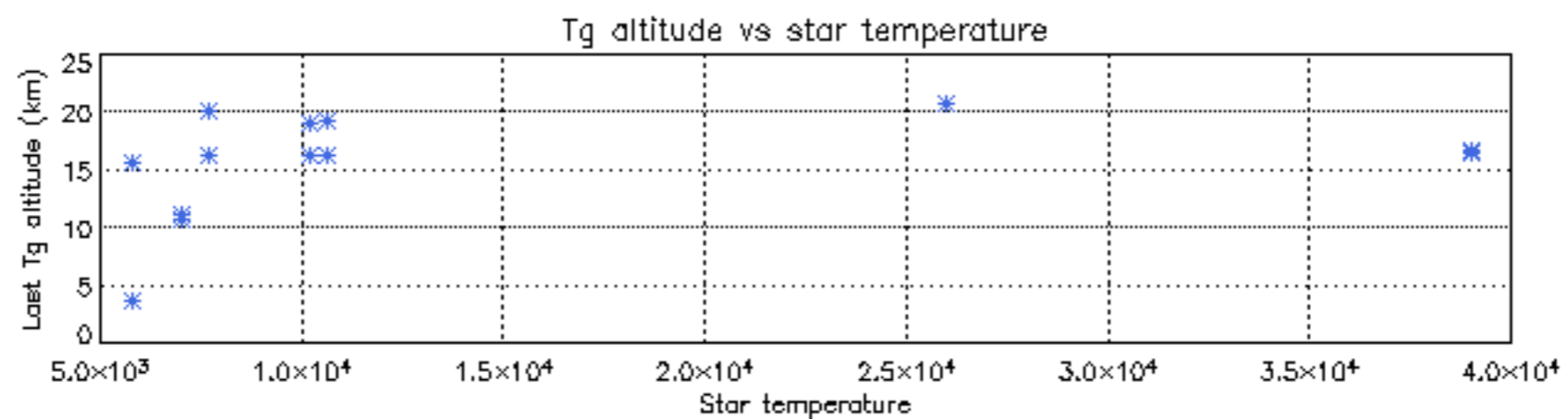
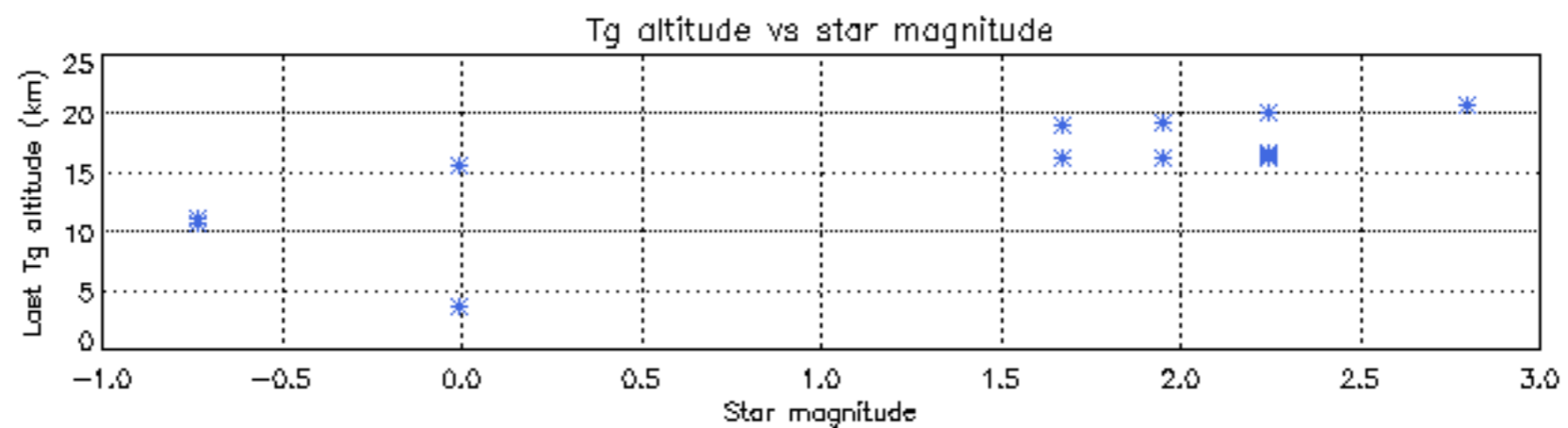
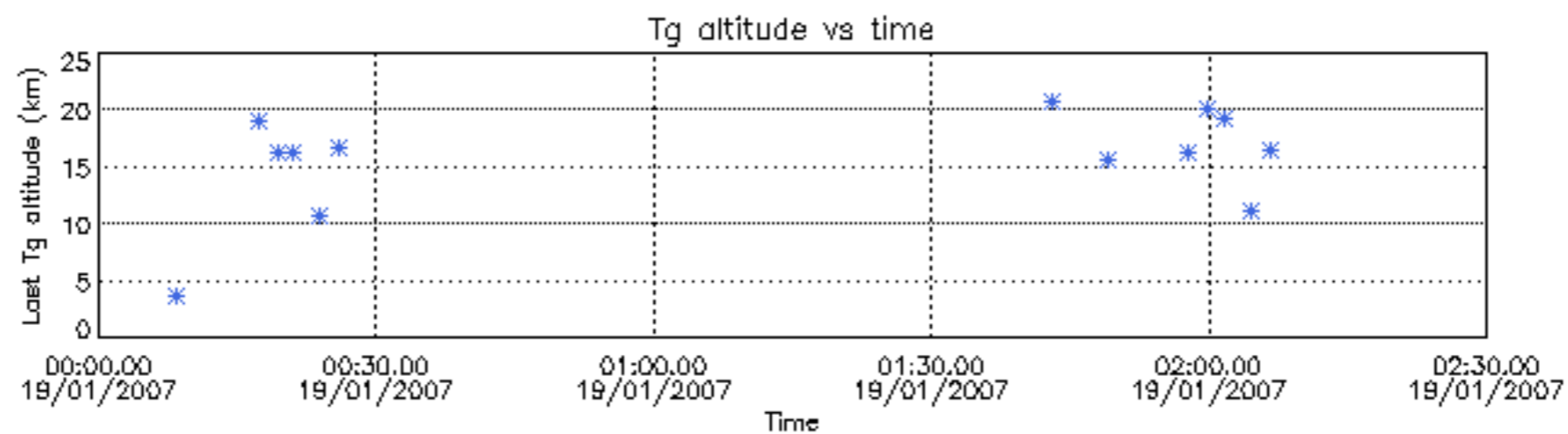
Percentage of star falling outside central band per profile



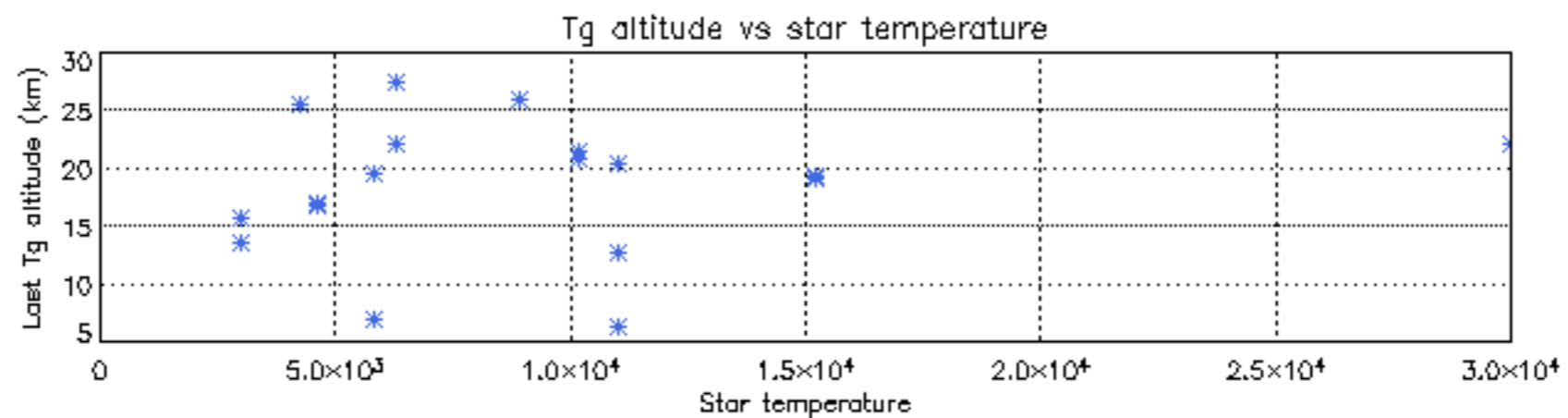
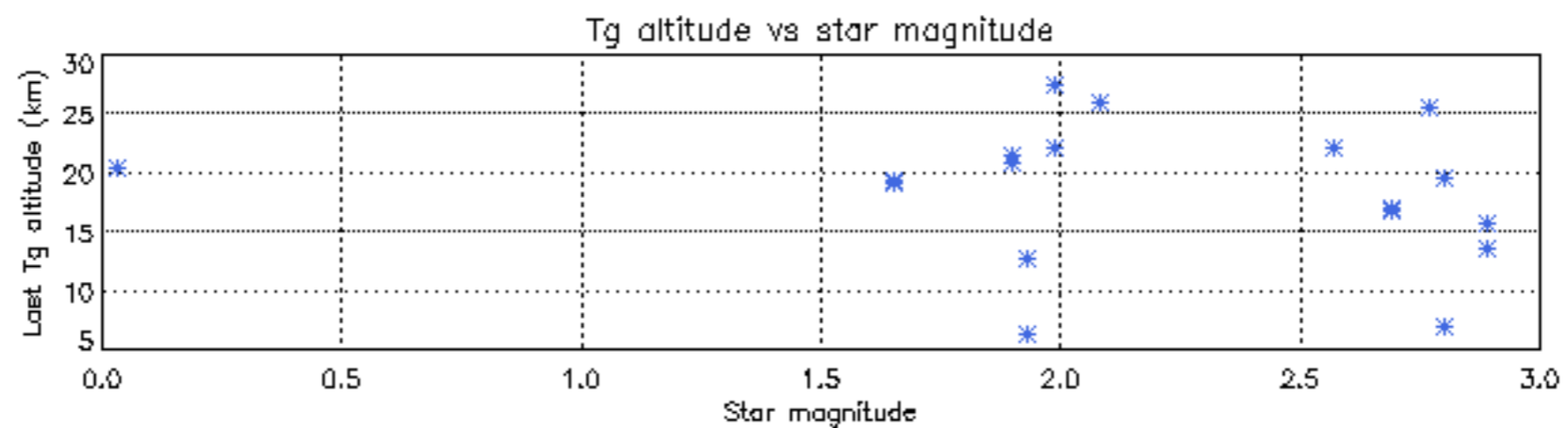
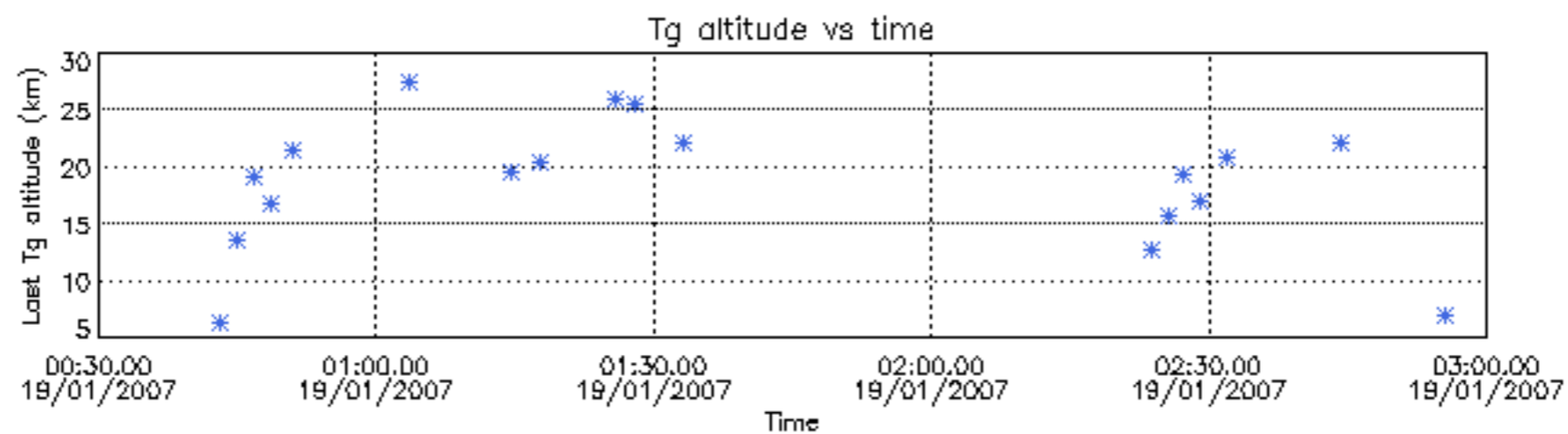
Percentage of saturation errors per profile



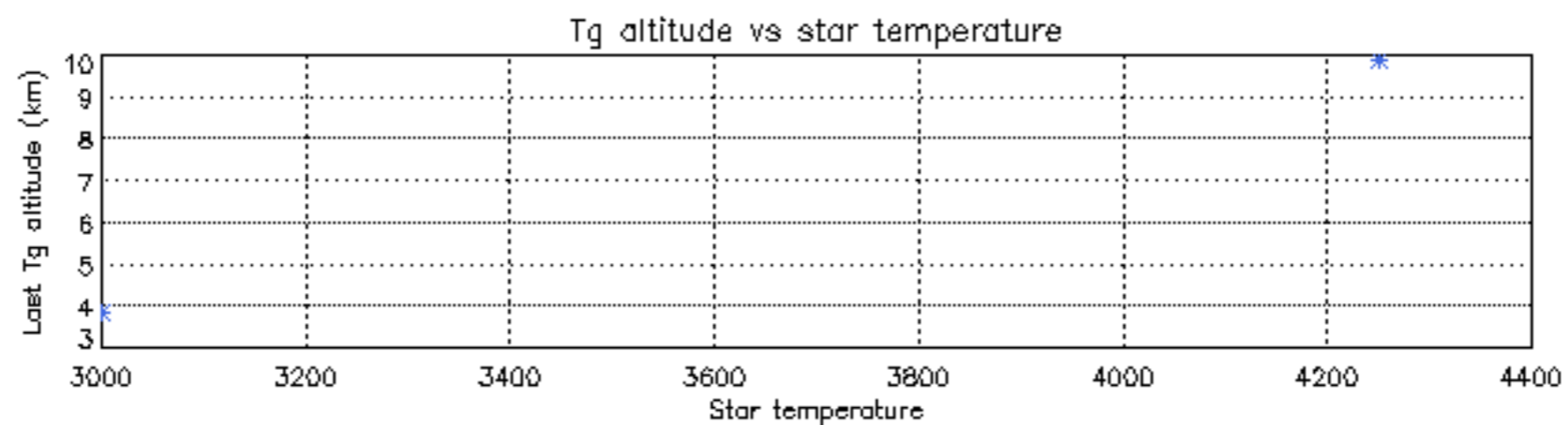
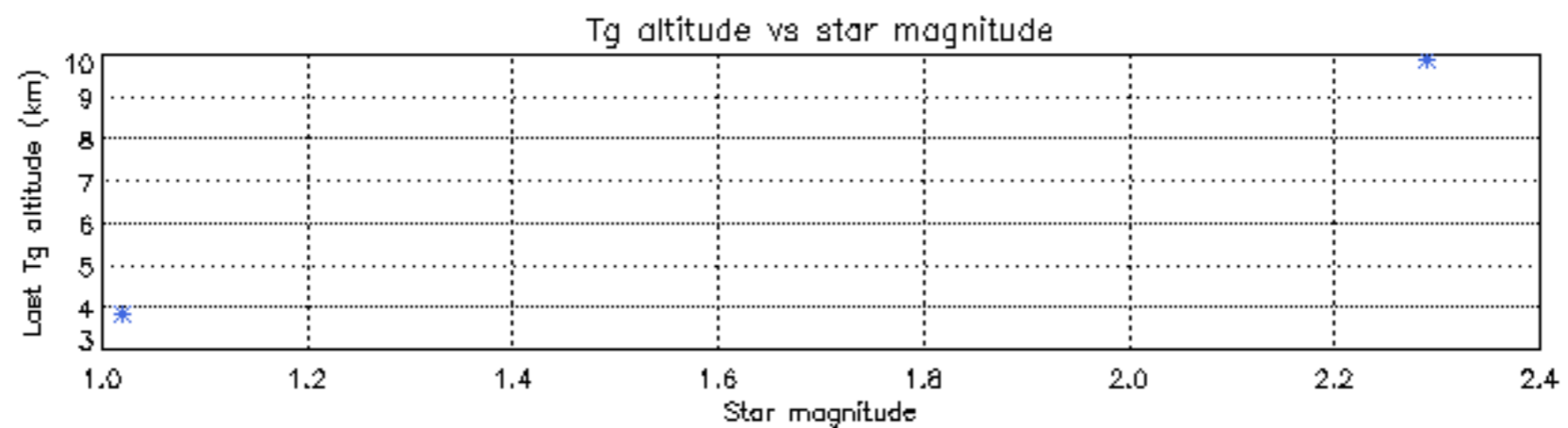
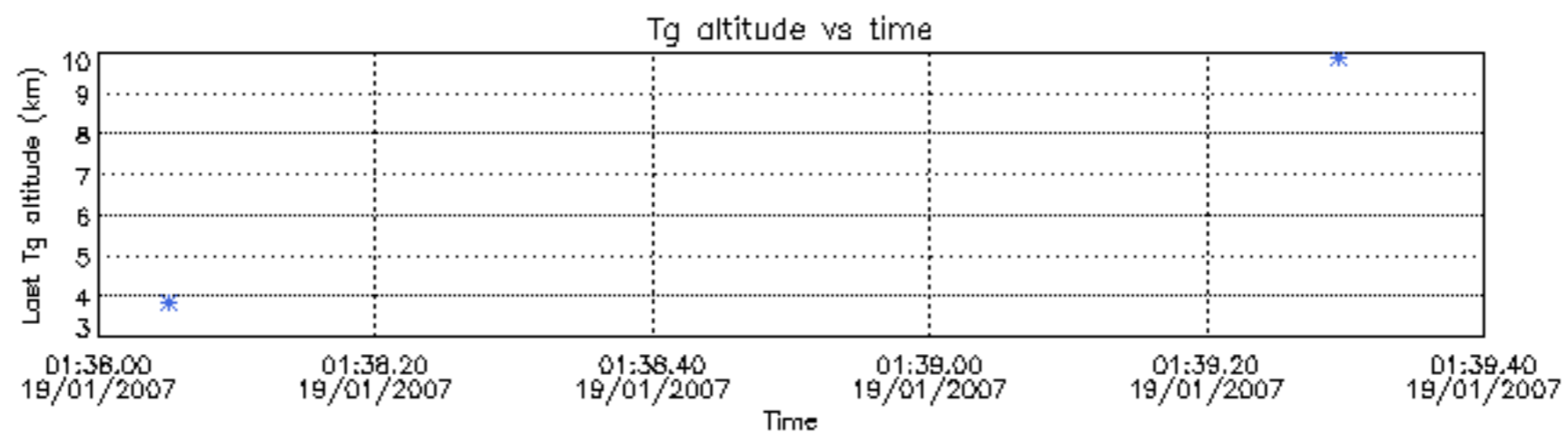
Tangent altitude at which the star is lost

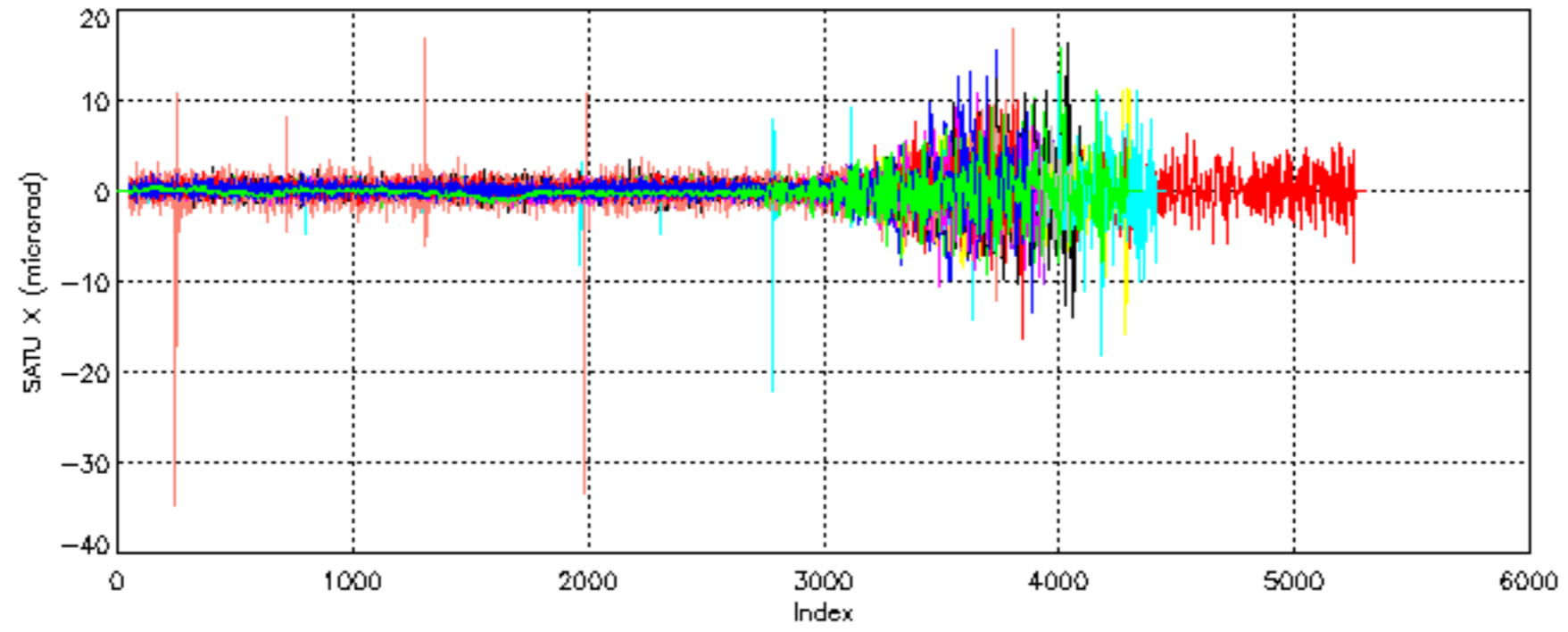


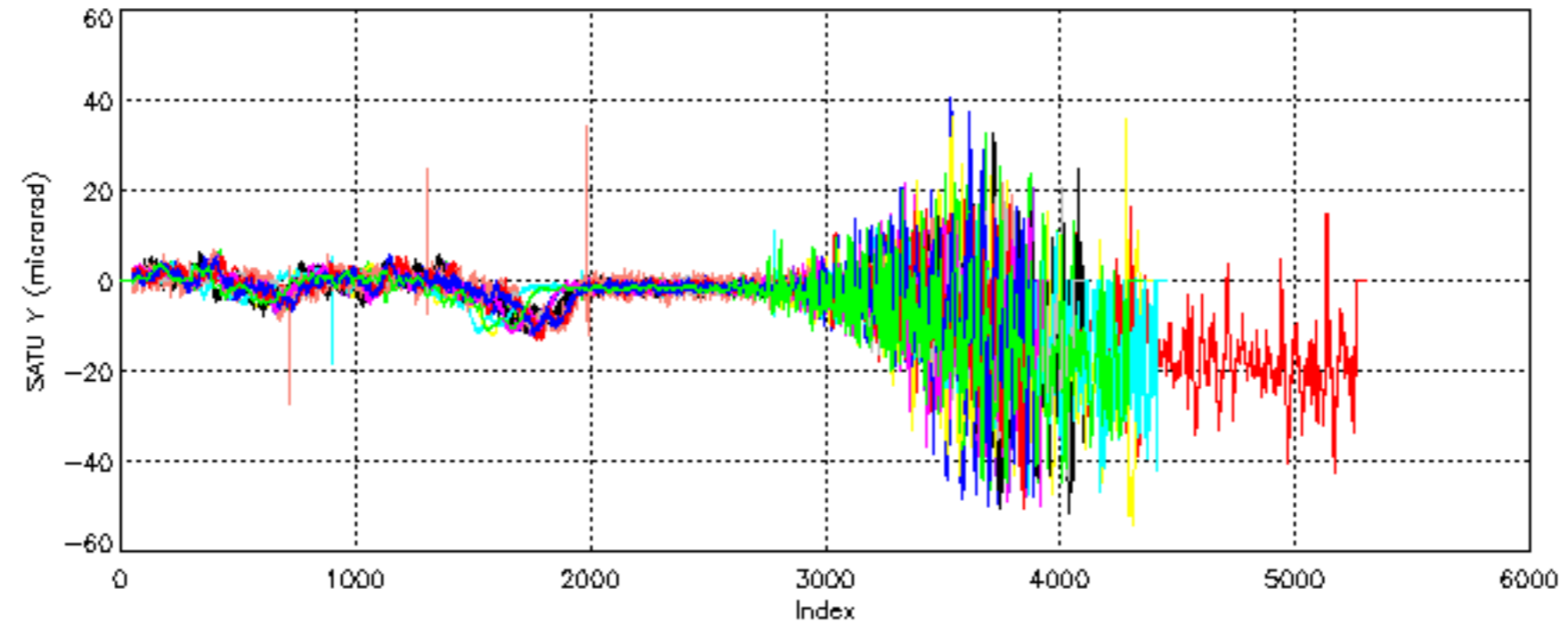
Tangent altitude at which the star is lost

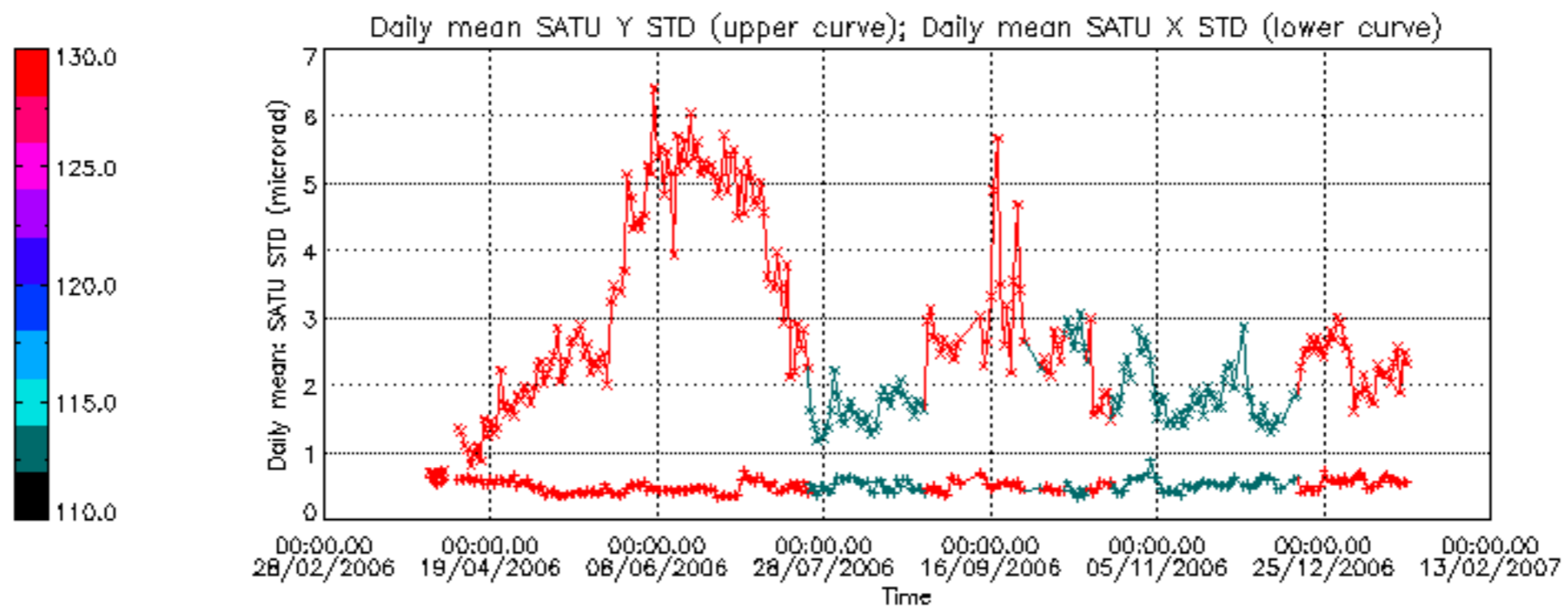


Tangent altitude at which the star is lost









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1; -684.5; 01-JAN-2007 01:00:46; Dark ; 42.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 85; 0;25292
 2; -193.3; 01-JAN-2007 01:08:57; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;25292
 3; -105.1; 01-JAN-2007 01:10:25; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25292
 4; 38.6; 01-JAN-2007 01:12:49; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;25293
 5; 228.2; 01-JAN-2007 01:15:58; Dark ; 49.0; 12; Alp1Cru ; 0.77; 30000;occ; 98; 0;25293
 6; 429.2; 01-JAN-2007 01:19:19; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25293
 7; 546.4; 01-JAN-2007 01:21:17; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;25293
 8; 629.3; 01-JAN-2007 01:22:40; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;25293
 9; 731.4; 01-JAN-2007 01:24:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25293
 10; 978.2; 01-JAN-2007 01:28:28; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;25293
 11; 1171.6; 01-JAN-2007 01:31:42; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;25293
 12; 1340.2; 01-JAN-2007 01:34:30; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;25293
 13; 1569.2; 01-JAN-2007 01:38:19; Dark ; 43.0; 47; 2Bet CMA ; 1.98; 28000;occ; 86; 0;25293
 14; 1769.4; 01-JAN-2007 01:41:40; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;25293
 15; 1881.5; 01-JAN-2007 01:43:32; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;25293
 16; 2033.3; 01-JAN-2007 01:46:04; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;25293
 17; 2271.5; 01-JAN-2007 01:50:02; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25293
 18; 2397.8; 01-JAN-2007 01:52:08; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;25293
 19; 2472.5; 01-JAN-2007 01:53:23; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;25293
 20; 2568.2; 01-JAN-2007 01:54:58; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;25293
 21; 2693.1; 01-JAN-2007 01:57:03; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;25293
 22; 3423.2; 01-JAN-2007 02:09:13; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;25293
 23; 3691.3; 01-JAN-2007 02:13:42; Bright; 5.5; 60; 7Bet UMi ; 2.08; 3950;occ; 11; 0;25293

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1; -2344.6; 01-JAN-2007 02:13:42; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25293
 2; -2114.0; 01-JAN-2007 02:17:32; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;25293
 3; -1490.4; 01-JAN-2007 02:27:56; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;25293
 4; -1146.0; 01-JAN-2007 02:33:40; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;25293
 5; -842.6; 01-JAN-2007 02:38:44; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;25293
 6; -281.2; 01-JAN-2007 02:48:05; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;25293
 7; -192.8; 01-JAN-2007 02:49:33; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;25293
 8; -104.3; 01-JAN-2007 02:51:02; Dark ; 39.0; 95; Zet Cen ; 2.55; 26000;occ; 78; 0;25293
 9; 39.0; 01-JAN-2007 02:53:25; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;25294
 10; 228.9; 01-JAN-2007 02:56:35; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;25294
 11; 429.7; 01-JAN-2007 02:59:56; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25294
 12; 547.0; 01-JAN-2007 03:01:53; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;25294
 13; 629.9; 01-JAN-2007 03:03:16; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;25294
 14; 732.0; 01-JAN-2007 03:04:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25294
 15; 978.5; 01-JAN-2007 03:09:05; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;25294
 16; 1172.1; 01-JAN-2007 03:12:18; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;25294
 17; 1340.5; 01-JAN-2007 03:15:07; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;25294
 18; 1569.2; 01-JAN-2007 03:18:55; Dark ; 44.5; 47; 2Bet CMA ; 1.98; 28000;occ; 89; 0;25294
 19; 1769.6; 01-JAN-2007 03:22:16; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;25294
 20; 1881.5; 01-JAN-2007 03:24:08; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;25294
 21; 2033.2; 01-JAN-2007 03:26:39; Dark ; 51.5; 14; 58Alp Ori ; 0.87; 3000;occ; 103; 0;25294
 22; 2271.5; 01-JAN-2007 03:30:38; Bright; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;25294
 23; 2397.7; 01-JAN-2007 03:32:44; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;25294
 24; 2472.6; 01-JAN-2007 03:33:59; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;25294
 25; 2567.8; 01-JAN-2007 03:35:34; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;25294
 26; 2693.1; 01-JAN-2007 03:37:39; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;25294
 27; 3423.2; 01-JAN-2007 03:49:49; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;25294

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1; -2344.7; 01-JAN-2007 03:54:17; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;25294
 2; -2114.0; 01-JAN-2007 03:58:08; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;25294
 3; -1614.0; 01-JAN-2007 04:06:28; Bright; 28.0; 133; 40Zet Her ; 2.81; 6000;occ; 56; 0;25294
 4; -1490.3; 01-JAN-2007 04:08:32; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;25294
 5; -1145.6; 01-JAN-2007 04:14:17; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;25294
 6; -842.4; 01-JAN-2007 04:19:20; Bright; 55.0; 104; 27Bet Lib ; 2.61; 13100;occ; 110; 0;25294
 7; -683.3; 01-JAN-2007 04:21:59; Dark ; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;25294
 8; -280.8; 01-JAN-2007 04:28:41; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;25294
 9; -192.3; 01-JAN-2007 04:30:10; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;25294
 10; -103.8; 01-JAN-2007 04:31:38; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;25294
 11; 39.4; 01-JAN-2007 04:34:02; Dark ; 49.5; 10; Bet Cen ; 0.61; 28000;occ; 99; 0;25295
 12; 229.3; 01-JAN-2007 04:37:11; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;25295
 13; 430.3; 01-JAN-2007 04:40:32; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;25295
 14; 547.2; 01-JAN-2007 04:42:29; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;25295
 15; 630.4; 01-JAN-2007 04:43:53; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;25295


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16; 732.5; 01-JAN-2007 04:45:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25295
17; 978.8; 01-JAN-2007 04:49:41; Dark ; 50.5; 2; Alp Car ;-0.74; 7000;occ; 101; 0;25295
18; 1172.4; 01-JAN-2007 04:52:55; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;25295
19; 1340.8; 01-JAN-2007 04:55:43; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;25295
20; 1569.4; 01-JAN-2007 04:59:32; Dark ; 43.5; 47; 2Bet CMA ; 1.98; 28000;occ; 87; 0;25295
21; 1769.7; 01-JAN-2007 05:02:52; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;25295
22; 1881.5; 01-JAN-2007 05:04:44; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;25295
23; 2033.2; 01-JAN-2007 05:07:15; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;25295
24; 2271.4; 01-JAN-2007 05:11:14; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25295
25; 2397.7; 01-JAN-2007 05:13:20; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;25295
26; 2472.7; 01-JAN-2007 05:14:35; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;25295
27; 2567.6; 01-JAN-2007 05:16:10; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;25295
28; 2693.0; 01-JAN-2007 05:18:15; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;25295
29; 3423.2; 01-JAN-2007 05:30:25; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;25295
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1; -2344.9; 01-JAN-2007 05:34:53; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;25295
2; -2114.0; 01-JAN-2007 05:38:44; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;25295
3; -1614.0; 01-JAN-2007 05:47:04; Bright; 28.0; 133; 40Zet Her ; 2.81; 6000;occ; 56; 0;25295
4; -1490.2; 01-JAN-2007 05:49:08; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;25295
5; -1145.4; 01-JAN-2007 05:54:53; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;25295
6; -841.9; 01-JAN-2007 05:59:56; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;25295
7; -682.8; 01-JAN-2007 06:02:35; Dark ; 44.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 89; 0;25295
8; -280.4; 01-JAN-2007 06:09:18; Dark ; 36.5; 109; Bet Lup ; 2.68; 26000;occ; 73; 0;25295
9; -191.9; 01-JAN-2007 06:10:46; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;25295
10; -103.2; 01-JAN-2007 06:12:15; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25295
11; 39.8; 01-JAN-2007 06:14:38; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;25296
12; 229.8; 01-JAN-2007 06:17:48; Dark ; 50.5; 12; Alp1Cru ; 0.77; 30000;occ; 101; 0;25296
13; 430.8; 01-JAN-2007 06:21:09; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25296
14; 547.5; 01-JAN-2007 06:23:06; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25296
15; 630.9; 01-JAN-2007 06:24:29; Dark ; 47.0; 71; Iot Car ; 2.25; 7700;occ; 94; 0;25296
16; 733.1; 01-JAN-2007 06:26:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25296
17; 979.1; 01-JAN-2007 06:30:17; Dark ; 43.5; 2; Alp Car ;-0.74; 7000;occ; 87; 0;25296
18; 1172.8; 01-JAN-2007 06:33:31; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;25296
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21; 1769.9; 01-JAN-2007 06:43:28; Dark ; 49.5; 7; 19Bet Ori ; 0.10; 14000;occ; 99; 0;25296
22; 1881.6; 01-JAN-2007 06:45:20; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;25296
23; 2033.1; 01-JAN-2007 06:47:51; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;25296
24; 2271.2; 01-JAN-2007 06:51:49; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25296
25; 2397.5; 01-JAN-2007 06:53:56; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;25296
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18; 5930.6; 12-JAN-2007 15:29:47; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25458
19; 6045.7; 12-JAN-2007 15:31:42; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;25458
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22; 6549.9; 12-JAN-2007 15:40:06; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;25458
23; 6639.7; 12-JAN-2007 15:41:36; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25458
24; 6748.9; 12-JAN-2007 15:43:25; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;25458
25; 6828.1; 12-JAN-2007 15:44:44; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;25458
26; 7026.8; 12-JAN-2007 15:48:03; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;25458
27; 7156.3; 12-JAN-2007 15:50:12; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;25458
28; 7261.0; 12-JAN-2007 15:51:57; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;25458

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2; 1467.3; 12-JAN-2007 15:55:59; Dark ; 41.0; 179; 240mi2CMA ; 3.03; 24000;occ; 82; 0;25459
3; 1602.8; 12-JAN-2007 15:58:15; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;25459
4; 1751.4; 12-JAN-2007 16:00:43; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;25459
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10; 2399.7; 12-JAN-2007 16:11:32; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;25459
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13; 3424.8; 12-JAN-2007 16:28:37; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;25459
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15; 3923.8; 12-JAN-2007 16:36:56; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;25459
16; 4072.5; 12-JAN-2007 16:39:24; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;25459
17; 4447.5; 12-JAN-2007 16:45:39; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;25459
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21; 5432.4; 12-JAN-2007 17:02:04; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;25459
22; 5740.9; 12-JAN-2007 17:07:13; Dark ; 39.5; 131; Gam Lup ; 2.80; 26000;occ; 79; 0;25459
23; 5840.6; 12-JAN-2007 17:08:53; Dark ; 41.5; 109; Bet Lup ; 2.68; 26000;occ; 83; 0;25459
24; 5931.2; 12-JAN-2007 17:10:23; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25459
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27; 6303.7; 12-JAN-2007 17:16:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25459
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32; 7027.3; 12-JAN-2007 17:28:39; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;25459
33; 7156.8; 12-JAN-2007 17:30:49; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;25459

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12; 2399.9; 12-JAN-2007 17:52:08; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;25460
13; 2491.0; 12-JAN-2007 17:53:39; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;25460
14; 2674.3; 12-JAN-2007 17:56:42; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25460
15; 3424.8; 12-JAN-2007 18:09:13; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;25460
16; 3670.2; 12-JAN-2007 18:13:18; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;25460
17; 3923.7; 12-JAN-2007 18:17:32; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;25460
18; 4072.7; 12-JAN-2007 18:20:01; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;25460
19; 4447.5; 12-JAN-2007 18:26:16; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;25460
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21; 5080.9; 12-JAN-2007 18:36:49; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25460
22; 5165.8; 12-JAN-2007 18:38:14; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;25460
23; 5432.7; 12-JAN-2007 18:42:41; Dark ; 46.5; 16; 21Alp Sco ; 1.02; 3000;occ; 93; 0;25460
24; 5741.4; 12-JAN-2007 18:47:49; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;25460
25; 5841.2; 12-JAN-2007 18:49:29; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;25460
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27; 6047.3; 12-JAN-2007 18:52:55; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25460
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32; 6749.7; 12-JAN-2007 19:04:38; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;25460
33; 6828.7; 12-JAN-2007 19:05:57; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;25460

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5; 1381.2; 12-JAN-2007 19:15:45; Dark ; 41.5; 23; 21Eps CMa ; 1.50; 26000;occ; 83; 0;25461
6; 1467.7; 12-JAN-2007 19:17:12; Dark ; 41.0; 179; 240mi2CMa ; 3.03; 24000;occ; 82; 0;25461
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9; 1821.2; 12-JAN-2007 19:23:05; Dark ; 36.5; 125; 44Iot Ori ; 2.77; 30000;occ; 73; 0;25461
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24; 5166.1; 12-JAN-2007 20:18:50; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0;25461
25; 5433.0; 12-JAN-2007 20:23:17; Dark ; 52.0; 16; 21Alp Sco ; 1.02; 3000;occ; 104; 0;25461
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27; 5841.5; 12-JAN-2007 20:30:05; Dark ; 40.0; 109; Bet Lup ; 2.68; 26000;occ; 80; 0;25461
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31; 6304.2; 12-JAN-2007 20:37:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25461
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33; 6640.5; 12-JAN-2007 20:43:24; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;25461
34; 6750.1; 12-JAN-2007 20:45:14; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;25461
35; 6829.0; 12-JAN-2007 20:46:33; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;25461

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3;-1962.9; 13-JAN-2007 02:43:00; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;25465
4;-1587.8; 13-JAN-2007 02:49:16; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;25465
5;-1404.1; 13-JAN-2007 02:52:19; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;25465
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12; 15.2; 13-JAN-2007 03:15:58; Dark ; 30.0; 95; Zet Cen ; 2.55; 26000;occ; 60; 0;25466
13; 116.2; 13-JAN-2007 03:17:40; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;25466
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21; 1227.0; 13-JAN-2007 03:36:10; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;25466
22; 1382.4; 13-JAN-2007 03:38:46; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0;25466
23; 1468.7; 13-JAN-2007 03:40:12; Dark ; 41.5; 179; 240mi2CMa ; 3.03; 24000;occ; 83; 0;25466
24; 1603.9; 13-JAN-2007 03:42:27; Dark ; 44.5; 1; 9Alp CMa ; -1.44; 11000;occ; 89; 0;25466
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29; 2192.6; 13-JAN-2007 03:52:16; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;25466
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31; 2400.4; 13-JAN-2007 03:55:44; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;25466
32; 2492.2; 13-JAN-2007 03:57:16; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;25466
33; 2673.9; 13-JAN-2007 04:00:17; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25466
34; 3424.9; 13-JAN-2007 04:12:48; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;25466

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3;-1962.5; 13-JAN-2007 04:23:37; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;25466
4;-1587.7; 13-JAN-2007 04:29:52; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;25466
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32; 5087.5; 13-JAN-2007 23:07:06; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25477
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 7; 276.4; 15-JAN-2007 00:36:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25493
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9;	74.6;	15-JAN-2007 05:34:55;	Dark ;	48.5;	4;	Alp1Cen ;	-0.01;	5800;occ;	97;	0;25496
10;	277.2;	15-JAN-2007 05:38:18;	Dark ;	59.5;	0;	;	0.00;	0;occ;	119;	0;25496
11;	532.2;	15-JAN-2007 05:42:33;	Dark ;	38.0;	124;	The Car ;	2.76;	30000;occ;	76;	0;25496
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16;	1235.1;	15-JAN-2007 05:54:16;	Dark ;	42.5;	117;	Pi Pup ;	2.71;	3800;occ;	85;	0;25496
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18;	1474.2;	15-JAN-2007 05:58:15;	Dark ;	38.5;	179;	240mi2CMA ;	3.03;	24000;occ;	77;	0;25496
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20;	1757.3;	15-JAN-2007 06:02:58;	Dark ;	41.0;	56;	53Kap Ori ;	2.07;	30000;occ;	82;	0;25496
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22;	1904.9;	15-JAN-2007 06:05:26;	Dark ;	42.0;	30;	46Eps Ori ;	1.69;	30000;occ;	84;	0;25496
23;	2038.4;	15-JAN-2007 06:07:39;	Dark ;	52.0;	14;	58Alp Ori ;	0.87;	3000;occ;	104;	0;25496
24;	2275.1;	15-JAN-2007 06:11:36;	Bright;	36.5;	176;	23Zet Tau ;	3.02;	22000;occ;	73;	0;25496
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26;	2498.8;	15-JAN-2007 06:15:20;	Bright;	36.5;	114;	3Iot Aur ;	2.69;	4600;occ;	73;	0;25496
27;	2672.4;	15-JAN-2007 06:18:13;	Bright;	36.5;	42;	34Bet Aur ;	1.90;	10200;occ;	73;	0;25496
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3;	1237.4;	15-JAN-2007 20:59:41;	Dark ;	41.0;	117;	Pi Pup ;	2.71;	3800;occ;	82;	0;25505
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9;	1906.3;	15-JAN-2007 21:10:50;	Dark ;	40.5;	30;	46Eps Ori ;	1.69;	30000;occ;	81;	0;25505
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16;	4077.0;	15-JAN-2007 21:47:01;	Bright;	33.5;	130;	23Bet Dra ;	2.80;	5800;occ;	67;	0;25505
17;	4454.2;	15-JAN-2007 21:53:18;	Bright;	36.5;	133;	40Zet Her ;	2.81;	6000;occ;	73;	0;25505
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5;	279.8;	15-JAN-2007 22:24:20;	Dark ;	59.5;	0;	;	0.00;	0;occ;	119;	0;25506
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14;	1609.3;	15-JAN-2007 22:46:29;	Dark ;	44.0;	1;	9Alp CMA ;	-1.44;	11000;occ;	88;	0;25506
15;	1758.8;	15-JAN-2007 22:48:59;	Dark ;	39.0;	56;	53Kap Ori ;	2.07;	30000;occ;	78;	0;25506
16;	1829.1;	15-JAN-2007 22:50:09;	Dark ;	38.5;	125;	44Iot Ori ;	2.77;	30000;occ;	77;	0;25506
17;	1906.5;	15-JAN-2007 22:51:26;	Dark ;	41.0;	30;	46Eps Ori ;	1.69;	30000;occ;	82;	0;25506
18;	2039.4;	15-JAN-2007 22:53:39;	Dark ;	52.0;	14;	58Alp Ori ;	0.87;	3000;occ;	104;	0;25506
19;	2276.3;	15-JAN-2007 22:57:36;	Bright;	35.5;	176;	23Zet Tau ;	3.02;	22000;occ;	71;	0;25506
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21;	2501.2;	15-JAN-2007 23:01:21;	Bright;	36.5;	114;	3Iot Aur ;	2.69;	4600;occ;	73;	0;25506
22;	2672.0;	15-JAN-2007 23:04:12;	Bright;	35.5;	42;	34Bet Aur ;	1.90;	10200;occ;	71;	0;25506
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 2; 1178.1; 24-JAN-2007 21:15:55; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;25634
 3; 1267.5; 24-JAN-2007 21:17:24; Dark ; 42.0; 117; Pi Pup ; 2.71; 3800;occ; 84; 0;25634
 4; 1415.6; 24-JAN-2007 21:19:52; Dark ; 39.0; 23; 21Eps CMA ; 1.50; 26000;occ; 78; 0;25634
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 6; 1628.4; 24-JAN-2007 21:23:25; Dark ; 43.0; 1; 9Alp CMA ; -1.44; 11000;occ; 86; 0;25634
 7; 2048.6; 24-JAN-2007 21:30:25; Dark ; 42.5; 153; 3Bet CMI ; 2.89; 13100;occ; 85; 0;25634
 8; 2188.5; 24-JAN-2007 21:32:45; Bright; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;25634
 9; 2295.0; 24-JAN-2007 21:34:32; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;25634
10; 2548.8; 24-JAN-2007 21:38:45; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;25634
11; 2676.8; 24-JAN-2007 21:40:53; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;25634
12; 3426.5; 24-JAN-2007 21:53:23; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;25634
13; 4085.8; 24-JAN-2007 22:04:22; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;25634
14; 4289.1; 24-JAN-2007 22:07:46; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;25634
15; 4770.2; 24-JAN-2007 22:15:47; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;25634
16; 4896.5; 24-JAN-2007 22:17:53; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;25634
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2;	-528.3;	24-JAN-2007	22:28:04;	Dark	;	48.5;	16;	21Alp Sco	;	1.02;	3000;occ;	97;	0;	25634
3;	-442.4;	24-JAN-2007	22:29:30;	Dark	;	41.5;	75;	26Eps Sco	;	2.29;	4250;occ;	83;	0;	25634
4;	-193.9;	24-JAN-2007	22:33:39;	Dark	;	40.5;	131;	Gam Lup	;	2.80;	26000;occ;	81;	0;	25634
5;	16.4;	24-JAN-2007	22:37:09;	Dark	;	32.0;	78;	Alp Lup	;	2.30;	28000;occ;	64;	0;	25635
6;	139.9;	24-JAN-2007	22:39:12;	Dark	;	55.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	110;	0;	25635
7;	314.2;	24-JAN-2007	22:42:07;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	25635
8;	413.4;	24-JAN-2007	22:43:46;	Dark	;	40.0;	12;	Alp1Cru	;	0.77;	30000;occ;	80;	0;	25635
9;	655.8;	24-JAN-2007	22:47:48;	Dark	;	39.5;	29;	Bet Car	;	1.67;	10200;occ;	79;	0;	25635
10;	787.0;	24-JAN-2007	22:50:00;	Dark	;	40.0;	71;	Iot Car	;	2.25;	7700;occ;	80;	0;	25635
11;	895.4;	24-JAN-2007	22:51:48;	Dark	;	38.5;	46;	Del Vel	;	1.95;	10600;occ;	77;	0;	25635
12;	1051.9;	24-JAN-2007	22:54:24;	Dark	;	39.0;	34;	Gam2Vel	;	1.79;	23000;occ;	78;	0;	25635
13;	1178.3;	24-JAN-2007	22:56:31;	Dark	;	40.0;	70;	Zet Pup	;	2.25;	39000;occ;	80;	0;	25635
14;	1267.7;	24-JAN-2007	22:58:00;	Dark	;	41.0;	117;	Pi Pup	;	2.71;	3800;occ;	82;	0;	25635
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16;	1498.9;	24-JAN-2007	23:01:51;	Dark	;	37.0;	179;	24Omi2CMA	;	3.03;	24000;occ;	74;	0;	25635
17;	1628.6;	24-JAN-2007	23:04:01;	Dark	;	43.5;	1;	9Alp CMA	;	-1.44;	11000;occ;	87;	0;	25635
18;	2048.5;	24-JAN-2007	23:11:01;	Dark	;	42.0;	153;	3Bet CMI	;	2.89;	13100;occ;	84;	0;	25635
19;	2188.4;	24-JAN-2007	23:13:21;	Bright;	;	38.5;	44;	24Gam Gem	;	1.93;	11000;occ;	77;	0;	25635
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21;	2548.7;	24-JAN-2007	23:19:21;	Bright;	;	35.5;	107;	37The Aur	;	2.65;	11000;occ;	71;	0;	25635
22;	2676.8;	24-JAN-2007	23:21:29;	Bright;	;	35.5;	42;	34Bet Aur	;	1.90;	10200;occ;	71;	0;	25635
23;	3426.4;	24-JAN-2007	23:33:59;	Bright;	;	35.0;	49;	1Alp UMi	;	1.99;	6300;occ;	70;	0;	25635
24;	4085.8;	24-JAN-2007	23:44:58;	Bright;	;	36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	25635
25;	4289.4;	24-JAN-2007	23:48:22;	Bright;	;	33.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	67;	0;	25635
26;	4770.3;	24-JAN-2007	23:56:23;	Bright;	;	34.0;	59;	55Alp Oph	;	2.08;	8900;occ;	68;	0;	25635
27;	4896.8;	24-JAN-2007	23:58:29;	Bright;	;	34.0;	126;	60Bet Oph	;	2.77;	4250;occ;	68;	0;	25635
28;	5237.5;	25-JAN-2007	00:04:10;	Dark	;	44.5;	98;	13Zet Oph	;	2.57;	30000;occ;	89;	0;	25635

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2;	-1748.0;	24-JAN-2007	07:02:21;	Bright;	;	34.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	68;	0;	25625
3;	-1267.6;	24-JAN-2007	07:10:21;	Bright;	;	34.0;	59;	55Alp Oph	;	2.08;	8900;occ;	68;	0;	25625
4;	-1141.1;	24-JAN-2007	07:12:28;	Bright;	;	33.0;	126;	60Bet Oph	;	2.77;	4250;occ;	66;	0;	25625
5;	-803.1;	24-JAN-2007	07:18:06;	Dark	;	42.0;	98;	13Zet Oph	;	2.57;	30000;occ;	84;	0;	25625
6;	-532.8;	24-JAN-2007	07:22:36;	Dark	;	49.0;	16;	21Alp Sco	;	1.02;	3000;occ;	98;	0;	25625
7;	-445.8;	24-JAN-2007	07:24:03;	Dark	;	41.0;	75;	26Eps Sco	;	2.29;	4250;occ;	82;	0;	25625
8;	-199.7;	24-JAN-2007	07:28:09;	Dark	;	40.5;	131;	Gam Lup	;	2.80;	26000;occ;	81;	0;	25625
9;	9.8;	24-JAN-2007	07:31:39;	Dark	;	41.0;	78;	Alp Lup	;	2.30;	28000;occ;	82;	0;	25626
10;	135.8;	24-JAN-2007	07:33:45;	Dark	;	44.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	89;	0;	25626
11;	223.7;	24-JAN-2007	07:35:13;	Dark	;	27.0;	77;	Eps Cen	;	2.30;	28000;occ;	54;	0;	25626
12;	312.3;	24-JAN-2007	07:36:41;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	25626
13;	408.8;	24-JAN-2007	07:38:18;	Dark	;	40.0;	12;	Alp1Cru	;	0.77;	30000;occ;	80;	0;	25626
14;	653.6;	24-JAN-2007	07:42:22;	Dark	;	38.0;	29;	Bet Car	;	1.67;	10200;occ;	76;	0;	25626
15;	783.9;	24-JAN-2007	07:44:33;	Dark	;	39.0;	71;	Iot Car	;	2.25;	7700;occ;	78;	0;	25626
16;	892.6;	24-JAN-2007	07:46:21;	Dark	;	39.0;	46;	Del Vel	;	1.95;	10600;occ;	78;	0;	25626
17;	1049.5;	24-JAN-2007	07:48:58;	Dark	;	41.0;	34;	Gam2Vel	;	1.79;	23000;occ;	82;	0;	25626
18;	1176.0;	24-JAN-2007	07:51:05;	Dark	;	41.5;	70;	Zet Pup	;	2.25;	39000;occ;	83;	0;	25626
19;	1266.1;	24-JAN-2007	07:52:35;	Dark	;	39.5;	117;	Pi Pup	;	2.71;	3800;occ;	79;	0;	25626
20;	1414.4;	24-JAN-2007	07:55:03;	Dark	;	43.0;	23;	21Eps CMA	;	1.50;	26000;occ;	86;	0;	25626
21;	1497.5;	24-JAN-2007	07:56:26;	Dark	;	37.0;	179;	24Omi2CMA	;	3.03;	24000;occ;	74;	0;	25626
22;	1627.4;	24-JAN-2007	07:58:36;	Dark	;	41.5;	1;	9Alp CMA	;	-1.44;	11000;occ;	83;	0;	25626

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2;	2049.5;	24-JAN-2007	08:05:38;	Dark	;	41.5;	153;	3Bet CMI	;	2.89;	13100;occ;	83;	0;	25626
3;	2188.2;	24-JAN-2007	08:07:57;	Bright;	;	38.5;	44;	24Gam Gem	;	1.93;	11000;occ;	77;	0;	25626
4;	2294.6;	24-JAN-2007	08:09:43;	Bright;	;	37.0;	151;	13Mu Gem	;	2.89;	3000;occ;	74;	0;	25626
5;	2548.0;	24-JAN-2007	08:13:57;	Bright;	;	35.0;	107;	37The Aur	;	2.65;	11000;occ;	70;	0;	25626
6;	2676.4;	24-JAN-2007	08:16:05;	Bright;	;	36.0;	42;	34Bet Aur	;	1.90;	10200;occ;	72;	0;	25626
7;	3426.7;	24-JAN-2007	08:28:36;	Bright;	;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	25626
8;	4085.8;	24-JAN-2007	08:39:35;	Bright;	;	36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	25626
9;	4288.2;	24-JAN-2007	08:42:57;	Bright;	;	35.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	70;	0;	25626
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11;	4895.1;	24-JAN-2007	08:53:04;	Bright;	;	33.5;	126;	60Bet Oph	;	2.77;	4250;occ;	67;	0;	25626
12;	5233.3;	24-JAN-2007	08:58:42;	Dark	;	43.0;	98;	13Zet Oph	;	2.57;	30000;occ;	86;	0;	25626
13;	5503.6;	24-JAN-2007	09:03:12;	Dark	;	53.5;	16;	21Alp Sco	;	1.02;	3000;occ;	107;	0;	25626
14;	5590.5;	24-JAN-2007	09:04:39;	Dark	;	41.5;	75;	26Eps Sco	;	2.29;	4250;occ;	83;	0;	25626
15;	5836.9;	24-JAN-2007	09:08:46;	Dark	;	41.5;	131;	Gam Lup	;	2.80;	26000;occ;	83;	0;	25626

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18;	6348.5;	24-JAN-2007	09:17:17;	Dark	;	59.5;	0;		; 0.00;	0;occ;	119;	0;	25626
19;	6445.3;	24-JAN-2007	09:18:54;	Dark	;	40.0;	12;	Alp1Cru	; 0.77;	30000;occ;	80;	0;	25626
20;	6689.8;	24-JAN-2007	09:22:59;	Dark	;	37.0;	29;	Bet Car	; 1.67;	10200;occ;	74;	0;	25626
21;	6820.2;	24-JAN-2007	09:25:09;	Dark	;	37.0;	71;	Iot Car	; 2.25;	7700;occ;	74;	0;	25626
22;	6928.9;	24-JAN-2007	09:26:58;	Dark	;	38.5;	46;	Del Vel	; 1.95;	10600;occ;	77;	0;	25626
23;	7085.7;	24-JAN-2007	09:29:35;	Dark	;	40.0;	34;	Gam2Vel	; 1.79;	23000;occ;	80;	0;	25626
24;	7212.2;	24-JAN-2007	09:31:41;	Dark	;	37.5;	70;	Zet Pup	; 2.25;	39000;occ;	75;	0;	25626
25;	7302.2;	24-JAN-2007	09:33:11;	Dark	;	43.5;	117;	Pi Pup	; 2.71;	3800;occ;	87;	0;	25626
26;	7450.5;	24-JAN-2007	09:35:39;	Dark	;	42.5;	23;	21Eps CMA	; 1.50;	26000;occ;	85;	0;	25626
27;	7533.5;	24-JAN-2007	09:37:02;	Dark	;	38.0;	179;	240mi2CMA	; 3.03;	24000;occ;	76;	0;	25626
28;	7663.4;	24-JAN-2007	09:39:12;	Dark	;	48.0;	1;	9Alp CMA	;-1.44;	11000;occ;	96;	0;	25626
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3;	2294.7;	24-JAN-2007	09:50:19;	Bright;		52.0;	151;	13Mu Gem	; 2.89;	3000;occ;	104;	0;	25627
4;	2548.2;	24-JAN-2007	09:54:33;	Bright;		34.5;	107;	37The Aur	; 2.65;	11000;occ;	69;	0;	25627
5;	2676.5;	24-JAN-2007	09:56:41;	Bright;		35.5;	42;	34Bet Aur	; 1.90;	10200;occ;	71;	0;	25627
6;	3426.7;	24-JAN-2007	10:09:11;	Bright;		36.0;	49;	1Alp UMi	; 1.99;	6300;occ;	72;	0;	25627
7;	4085.8;	24-JAN-2007	10:20:11;	Bright;		53.0;	130;	23Bet Dra	; 2.80;	5800;occ;	106;	0;	25627
8;	4288.3;	24-JAN-2007	10:23:33;	Bright;		34.5;	5;	3Alp Lyr	; 0.03;	11000;occ;	69;	0;	25627
9;	4768.8;	24-JAN-2007	10:31:34;	Bright;		34.0;	59;	55Alp Oph	; 2.08;	8900;occ;	68;	0;	25627
10;	4895.3;	24-JAN-2007	10:33:40;	Bright;		33.0;	126;	60Bet Oph	; 2.77;	4250;occ;	66;	0;	25627
11;	5233.9;	24-JAN-2007	10:39:19;	Dark	;	42.5;	98;	13Zet Oph	; 2.57;	30000;occ;	85;	0;	25627
12;	5504.2;	24-JAN-2007	10:43:49;	Dark	;	48.0;	16;	21Alp Sco	; 1.02;	3000;occ;	96;	0;	25627
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16;	6348.7;	24-JAN-2007	10:57:53;	Dark	;	59.5;	0;		; 0.00;	0;occ;	119;	0;	25627
17;	6445.8;	24-JAN-2007	10:59:31;	Dark	;	41.5;	12;	Alp1Cru	; 0.77;	30000;occ;	83;	0;	25627
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20;	6929.2;	24-JAN-2007	11:07:34;	Dark	;	41.0;	46;	Del Vel	; 1.95;	10600;occ;	82;	0;	25627
21;	7086.0;	24-JAN-2007	11:10:11;	Dark	;	39.0;	34;	Gam2Vel	; 1.79;	23000;occ;	78;	0;	25627
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23;	7302.4;	24-JAN-2007	11:13:47;	Dark	;	45.0;	117;	Pi Pup	; 2.71;	3800;occ;	90;	1;	25627
24;	7450.7;	24-JAN-2007	11:16:15;	Dark	;	41.5;	23;	21Eps CMA	; 1.50;	26000;occ;	83;	0;	25627
25;	7533.7;	24-JAN-2007	11:17:38;	Dark	;	38.0;	179;	240mi2CMA	; 3.03;	24000;occ;	76;	0;	25627
26;	7663.6;	24-JAN-2007	11:19:48;	Dark	;	17.5;	1;	9Alp CMA	;-1.44;	11000;occ;	35;	0;	25627
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2;	2049.0;	24-JAN-2007	11:26:50;	Dark	;	41.5;	153;	3Bet CMI	; 2.89;	13100;occ;	83;	0;	25628
3;	2188.1;	24-JAN-2007	11:29:09;	Bright;		37.5;	44;	24Gam Gem	; 1.93;	11000;occ;	75;	0;	25628
4;	2294.5;	24-JAN-2007	11:30:55;	Bright;		37.0;	151;	13Mu Gem	; 2.89;	3000;occ;	74;	0;	25628
5;	2548.0;	24-JAN-2007	11:35:09;	Bright;		35.5;	107;	37The Aur	; 2.65;	11000;occ;	71;	0;	25628
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3; 2188.8; 25-JAN-2007 10:57:33; Bright; 38.0; 44; 24Gam Gem ; 1.93; 11000; occ; 76; 0; 25642
4; 2295.7; 25-JAN-2007 10:59:20; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000; occ; 78; 0; 25642
5; 2549.7; 25-JAN-2007 11:03:34; Bright; 35.5; 107; 37The Aur ; 2.65; 11000; occ; 71; 0; 25642
6; 2677.6; 25-JAN-2007 11:05:42; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200; occ; 72; 0; 25642
7; 3426.6; 25-JAN-2007 11:18:11; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300; occ; 70; 0; 25642
8; 4085.9; 25-JAN-2007 11:29:10; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800; occ; 87; 0; 25642
9; 4290.2; 25-JAN-2007 11:32:34; Bright; 34.0; 5; 3Alp Lyr ; 0.03; 11000; occ; 68; 0; 25642
10; 4771.9; 25-JAN-2007 11:40:36; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900; occ; 68; 0; 25642
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12;	5271.2;	25-JAN-2007	11:48:55;	Dark	;	40.5;	86;	35Eta Oph	;	2.43;	10200;occ;	81;	0;	25642
13;	5511.9;	25-JAN-2007	11:52:56;	Dark	;	46.5;	16;	21Alp Sco	;	1.02;	3000;occ;	93;	0;	25642
14;	5596.8;	25-JAN-2007	11:54:21;	Dark	;	44.0;	75;	26Eps Sco	;	2.29;	4250;occ;	88;	0;	25642
15;	5847.3;	25-JAN-2007	11:58:31;	Dark	;	41.0;	131;	Gam Lup	;	2.80;	26000;occ;	82;	0;	25642
16;	6093.6;	25-JAN-2007	12:02:38;	Dark	;	37.0;	134;	Bet TrA	;	2.81;	6600;occ;	74;	0;	25642
17;	6179.7;	25-JAN-2007	12:04:04;	Dark	;	43.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	87;	0;	25642
18;	6352.0;	25-JAN-2007	12:06:56;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	25642
19;	6453.6;	25-JAN-2007	12:08:38;	Dark	;	40.0;	12;	Alp1Cru	;	0.77;	30000;occ;	80;	0;	25642
20;	6693.8;	25-JAN-2007	12:12:38;	Dark	;	38.0;	29;	Bet Car	;	1.67;	10200;occ;	76;	0;	25642
21;	6825.9;	25-JAN-2007	12:14:50;	Dark	;	41.0;	71;	Iot Car	;	2.25;	7700;occ;	82;	0;	25642
22;	6934.0;	25-JAN-2007	12:16:38;	Dark	;	37.0;	46;	Del Vel	;	1.95;	10600;occ;	74;	0;	25642
23;	7090.1;	25-JAN-2007	12:19:14;	Dark	;	41.5;	34;	Gam2Vel	;	1.79;	23000;occ;	83;	0;	25642
24;	7216.4;	25-JAN-2007	12:21:21;	Dark	;	40.5;	70;	Zet Pup	;	2.25;	39000;occ;	81;	0;	25642
25;	7305.2;	25-JAN-2007	12:22:49;	Dark	;	39.0;	117;	Pi Pup	;	2.71;	3800;occ;	78;	0;	25642
26;	7453.2;	25-JAN-2007	12:25:17;	Dark	;	41.5;	23;	21Eps CMa	;	1.50;	26000;occ;	83;	0;	25642
27;	7536.0;	25-JAN-2007	12:26:40;	Dark	;	37.0;	179;	240mi2CMA	;	3.03;	24000;occ;	74;	0;	25642

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2;	1629.8;	25-JAN-2007	12:28:50;	Dark	;	44.5;	1;	9Alp CMA	;	-1.44;	11000;occ;	89;	0;	25643
3;	2048.1;	25-JAN-2007	12:35:48;	Dark	;	42.0;	153;	3Bet CMI	;	2.89;	13100;occ;	84;	0;	25643
4;	2189.0;	25-JAN-2007	12:38:09;	Bright;	;	39.0;	44;	24Gam Gem	;	1.93;	11000;occ;	78;	0;	25643
5;	2295.8;	25-JAN-2007	12:39:56;	Bright;	;	37.5;	151;	13Mu Gem	;	2.89;	3000;occ;	75;	0;	25643
6;	2549.8;	25-JAN-2007	12:44:10;	Bright;	;	34.5;	107;	37The Aur	;	2.65;	11000;occ;	69;	0;	25643
7;	2677.7;	25-JAN-2007	12:46:18;	Bright;	;	34.5;	42;	34Bet Aur	;	1.90;	10200;occ;	69;	0;	25643
8;	3426.6;	25-JAN-2007	12:58:47;	Bright;	;	52.0;	49;	1Alp UMi	;	1.99;	6300;occ;	104;	0;	25643
9;	4085.8;	25-JAN-2007	13:09:46;	Bright;	;	34.0;	130;	23Bet Dra	;	2.80;	5800;occ;	68;	0;	25643
10;	4290.4;	25-JAN-2007	13:13:10;	Bright;	;	33.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	66;	0;	25643
11;	4772.2;	25-JAN-2007	13:21:12;	Bright;	;	34.0;	59;	55Alp Oph	;	2.08;	8900;occ;	68;	0;	25643
12;	4898.8;	25-JAN-2007	13:23:19;	Bright;	;	33.5;	126;	60Bet Oph	;	2.77;	4250;occ;	67;	0;	25643
13;	5271.6;	25-JAN-2007	13:29:32;	Dark	;	39.5;	86;	35Eta Oph	;	2.43;	10200;occ;	79;	0;	25643
14;	5512.5;	25-JAN-2007	13:33:32;	Dark	;	49.0;	16;	21Alp Sco	;	1.02;	3000;occ;	98;	0;	25643
15;	5597.1;	25-JAN-2007	13:34:57;	Dark	;	42.5;	75;	26Eps Sco	;	2.29;	4250;occ;	85;	0;	25643
16;	5848.2;	25-JAN-2007	13:39:08;	Dark	;	40.5;	131;	Gam Lup	;	2.80;	26000;occ;	81;	0;	25643
17;	6094.0;	25-JAN-2007	13:43:14;	Dark	;	37.5;	134;	Bet TrA	;	2.81;	6600;occ;	75;	0;	25643
18;	6180.2;	25-JAN-2007	13:44:40;	Dark	;	41.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	83;	0;	25643
19;	6352.3;	25-JAN-2007	13:47:32;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	25643
20;	6454.2;	25-JAN-2007	13:49:14;	Dark	;	41.0;	12;	Alp1Cru	;	0.77;	30000;occ;	82;	0;	25643
21;	6694.1;	25-JAN-2007	13:53:14;	Dark	;	37.0;	29;	Bet Car	;	1.67;	10200;occ;	74;	0;	25643
22;	6826.3;	25-JAN-2007	13:55:26;	Dark	;	37.5;	71;	Iot Car	;	2.25;	7700;occ;	75;	0;	25643
23;	6934.4;	25-JAN-2007	13:57:14;	Dark	;	42.0;	46;	Del Vel	;	1.95;	10600;occ;	84;	0;	25643
24;	7090.4;	25-JAN-2007	13:59:50;	Dark	;	37.0;	34;	Gam2Vel	;	1.79;	23000;occ;	74;	0;	25643
25;	7216.7;	25-JAN-2007	14:01:57;	Dark	;	42.5;	70;	Zet Pup	;	2.25;	39000;occ;	85;	0;	25643
26;	7305.5;	25-JAN-2007	14:03:25;	Dark	;	42.5;	117;	Pi Pup	;	2.71;	3800;occ;	85;	0;	25643
27;	7453.4;	25-JAN-2007	14:05:53;	Dark	;	40.5;	23;	21Eps CMA	;	1.50;	26000;occ;	81;	0;	25643
28;	7536.2;	25-JAN-2007	14:07:16;	Dark	;	37.0;	179;	240mi2CMA	;	3.03;	24000;occ;	74;	0;	25643

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3;	2048.0;	25-JAN-2007	14:16:24;	Dark	;	42.0;	153;	3Bet CMI	;	2.89;	13100;occ;	84;	0;	25644
4;	2189.1;	25-JAN-2007	14:18:45;	Bright;	;	38.0;	44;	24Gam Gem	;	1.93;	11000;occ;	76;	0;	25644
5;	2296.0;	25-JAN-2007	14:20:32;	Bright;	;	36.0;	151;	13Mu Gem	;	2.89;	3000;occ;	72;	0;	25644
6;	2550.0;	25-JAN-2007	14:24:46;	Bright;	;	35.5;	107;	37The Aur	;	2.65;	11000;occ;	71;	0;	25644
7;	2677.9;	25-JAN-2007	14:26:54;	Bright;	;	36.5;	42;	34Bet Aur	;	1.90;	10200;occ;	73;	0;	25644
8;	3426.7;	25-JAN-2007	14:39:23;	Bright;	;	33.0;	49;	1Alp UMi	;	1.99;	6300;occ;	66;	0;	25644
9;	4085.9;	25-JAN-2007	14:50:22;	Bright;	;	36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	25644
10;	4290.5;	25-JAN-2007	14:53:46;	Bright;	;	34.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	68;	0;	25644
11;	4772.3;	25-JAN-2007	15:01:48;	Bright;	;	34.5;	59;	55Alp Oph	;	2.08;	8900;occ;	69;	0;	25644
12;	4899.2;	25-JAN-2007	15:03:55;	Bright;	;	33.5;	126;	60Bet Oph	;	2.77;	4250;occ;	67;	0;	25644
13;	5272.1;	25-JAN-2007	15:10:08;	Dark	;	43.5;	86;	35Eta Oph	;	2.43;	10200;occ;	87;	0;	25644
14;	5513.1;	25-JAN-2007	15:14:09;	Dark	;	53.5;	16;	21Alp Sco	;	1.02;	3000;occ;	107;	0;	25644
15;	5597.7;	25-JAN-2007	15:15:34;	Dark	;	43.0;	75;	26Eps Sco	;	2.29;	4250;occ;	86;	0;	25644
16;	5848.8;	25-JAN-2007	15:19:45;	Dark	;	41.5;	131;	Gam Lup	;	2.80;	26000;occ;	83;	0;	25644
17;	6094.3;	25-JAN-2007	15:23:50;	Dark	;	36.5;	134;	Bet TrA	;	2.81;	6600;occ;	73;	0;	25644
18;	6180.7;	25-JAN-2007	15:25:17;	Dark	;	42.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	84;	0;	25644
19;	6352.6;	25-JAN-2007	15:28:08;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	25644
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21;	6694.4;	25-JAN-2007	15:33:50;	Dark	;	37.0;	29;	Bet Car	;	1.67;	10200;occ;	74;	0;	25644


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26; 7305.7; 25-JAN-2007 15:44:02; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;25644
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 6; 220.4; 24-JAN-2007 00:52:45; Dark ; 32.0; 77; Eps Cen ; 2.30; 28000;occ; 64; 0;25622
 7; 311.2; 24-JAN-2007 00:54:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25622
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12;	3427.8;	31-JAN-2007	19:52:43;	Bright;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	25733	
13;	4099.9;	31-JAN-2007	20:03:55;	Bright;	38.5;	69;	33Gam Dra	;	2.23;	3800;occ;	77;	0;	25733	
14;	4304.1;	31-JAN-2007	20:07:19;	Bright;	36.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	72;	0;	25733	
15;	4795.8;	31-JAN-2007	20:15:31;	Bright;	37.0;	59;	55Alp Oph	;	2.08;	8900;occ;	74;	0;	25733	
16;	4923.9;	31-JAN-2007	20:17:39;	Bright;	36.0;	126;	60Bet Oph	;	2.77;	4250;occ;	72;	0;	25733	
17;	5311.1;	31-JAN-2007	20:24:06;	Dark	;	40.0;	86;	35Eta Oph	;	2.43;	10200;occ;	80;	0;	25733
18;	5475.4;	31-JAN-2007	20:26:50;	Dark	;	39.0;	167;	10Gam2Sgr	;	2.98;	4500;occ;	78;	0;	25733
19;	5615.4;	31-JAN-2007	20:29:10;	Dark	;	39.5;	25;	35Lam Sco	;	1.62;	28000;occ;	79;	0;	25733
20;	5703.9;	31-JAN-2007	20:30:39;	Dark	;	45.5;	40;	The Sco	;	1.86;	7100;occ;	91;	0;	25733
21;	5817.1;	31-JAN-2007	20:32:32;	Dark	;	37.0;	147;	Alp Ara	;	2.88;	26000;occ;	74;	0;	25733
22;	5910.6;	31-JAN-2007	20:34:05;	Dark	;	42.0;	141;	Bet Ara	;	2.84;	4600;occ;	84;	0;	25733
23;	6143.2;	31-JAN-2007	20:37:58;	Dark	;	39.5;	43;	Alp TrA	;	1.91;	4250;occ;	79;	0;	25733
24;	6227.9;	31-JAN-2007	20:39:23;	Dark	;	43.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	87;	0;	25733
25;	6378.2;	31-JAN-2007	20:41:53;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	25733
26;	6503.5;	31-JAN-2007	20:43:58;	Dark	;	41.5;	12;	Alp1Cru	;	0.77;	30000;occ;	83;	0;	25733
27;	6716.8;	31-JAN-2007	20:47:32;	Dark	;	36.5;	29;	Bet Car	;	1.67;	10200;occ;	73;	0;	25733
28;	6858.0;	31-JAN-2007	20:49:53;	Dark	;	38.5;	71;	Iot Car	;	2.25;	7700;occ;	77;	0;	25733
29;	6963.0;	31-JAN-2007	20:51:38;	Dark	;	34.5;	46;	Del Vel	;	1.95;	10600;occ;	69;	0;	25733