

GOMOS Daily Report 01-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	05JAN2009 11:35:11
Data source version	GOMOS/5.00
Start time of products	01JAN2009 00:04:32
Stop time of products	01JAN2009 03:04:30
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

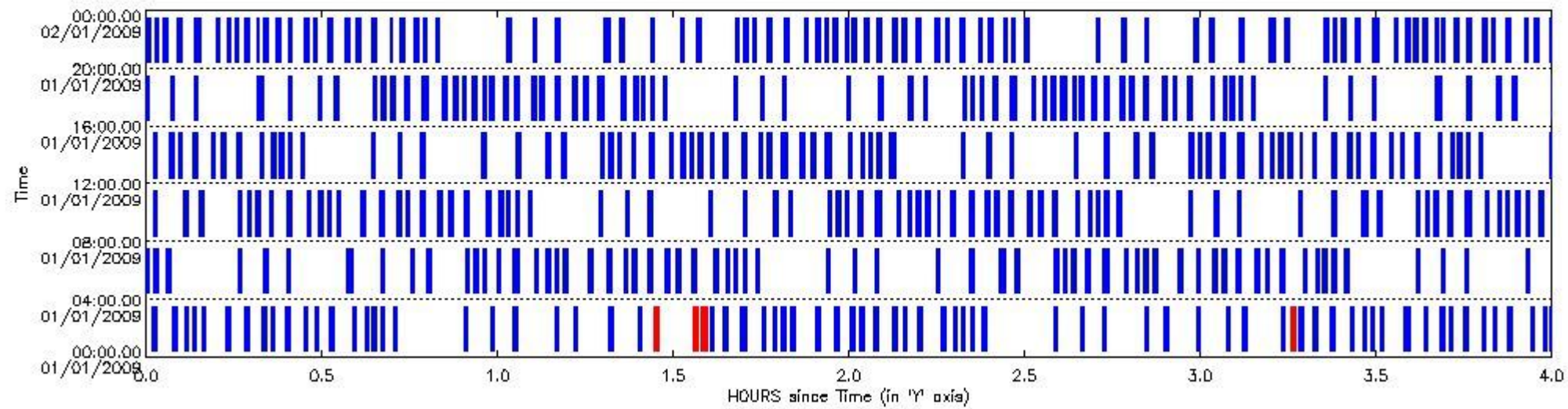
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

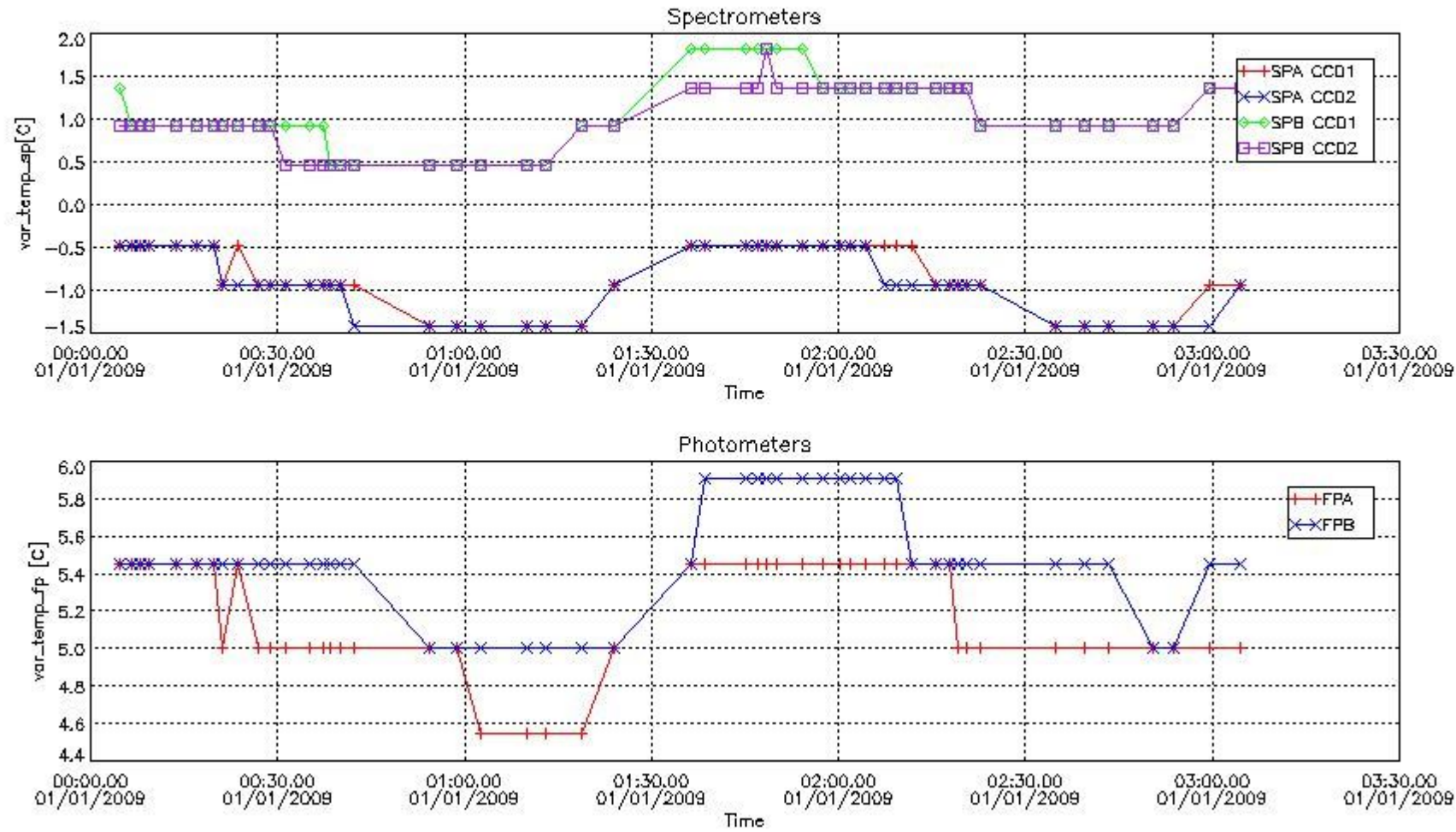
UTC start time	Star name	Star ID	Orbit
01-JAN-2009 01:26:36	9Alp2Lib	122	35756
01-JAN-2009 01:33:17	BetLup	109	35756
01-JAN-2009 01:34:45	AlpLup	78	35756
01-JAN-2009 03:15:22	AlpLup	78	35757

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_1PNPDE20090101_000432_000000372075_00131_35756_8906.N1	01-JAN-2009 00:04:32	Dark	37.000	124	The Car	2.7640	30000.	74	35756	No
2	GOM_TRA_1PNPDE20090101_000628_000000382075_00131_35756_8907.N1	01-JAN-2009 00:06:28	Dark	38.000	29	Bet Car	1.6720	10200.	76	35756	No
3	GOM_TRA_1PNPDE20090101_000752_000000402075_00131_35756_8908.N1	01-JAN-2009 00:07:52	Dark	39.500	71	lot Car	2.2460	7700.0	79	35756	No
4	GOM_TRA_1PNPDE20090101_000927_000000382075_00131_35756_8909.N1	01-JAN-2009 00:09:27	Dark	38.000	41	Eps Car	1.8600	4100.0	76	35756	No
5	GOM_TRA_1PNPDE20090101_001339_000000442075_00131_35756_8910.N1	01-JAN-2009 00:13:39	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	35756	No
6	GOM_TRA_1PNPDE20090101_001654_000000472075_00131_35756_8911.N1	01-JAN-2009 00:16:54	Dark	46.500	117	Pi Pup	2.7060	3800.0	93	35756	No
7	GOM_TRA_1PNPDE20090101_001941_000000442075_00131_35756_8912.N1	01-JAN-2009 00:19:41	Straylight	44.000	23	21Eps CMa	1.5020	26000.	88	35756	No

8	GOM_TRA_1PNPDE20090101_002114_000000422075_00131_35756_8913.N1	01-JAN-2009 00:21:14	Straylight	42.000	179	24Omi2CMa	3.0320	24000.	84	35756	No
9	GOM_TRA_1PNPDE20090101_002342_000000582075_00131_35756_8914.N1	01-JAN-2009 00:23:42	Straylight	57.500	1	9Alp CMa	-1.4400	11000.	115	35756	No
10	GOM_TRA_1PNPDE20090101_002650_000000422075_00131_35756_8915.N1	01-JAN-2009 00:26:50	Straylight	42.000	7	19Bet Ori	0.10000	14000.	84	35756	No
11	GOM_TRA_1PNPDE20090101_002841_000000402075_00131_35756_8916.N1	01-JAN-2009 00:28:41	Straylight	39.500	30	46Eps Ori	1.6940	30000.	79	35756	No
12	GOM_TRA_1PNPDE20090101_003112_000000552075_00131_35756_8917.N1	01-JAN-2009 00:31:12	Tw_i_and_stray	55.000	14	58Alp Ori	0.87000	3000.0	110	35756	No
13	GOM_TRA_1PNPDE20090101_003510_000000372075_00131_35756_8918.N1	01-JAN-2009 00:35:10	Bright	36.500	176	23Zet Tau	3.0200	22000.	73	35756	No
14	GOM_TRA_1PNPDE20090101_003716_000000382075_00131_35756_8919.N1	01-JAN-2009 00:37:16	Bright	37.500	28	12Bet Tau	1.6500	15200.	75	35756	No
15	GOM_TRA_1PNPDE20090101_003832_000000372075_00131_35756_8920.N1	01-JAN-2009 00:38:32	Bright	37.000	114	3lot Aur	2.6930	4600.0	74	35756	No
16	GOM_TRA_1PNPDE20090101_004005_000000372075_00131_35756_8921.N1	01-JAN-2009 00:40:05	Bright	37.000	107	37The Aur	2.6490	11000.	74	35756	No
17	GOM_TRA_1PNPDE20090101_004212_000000402075_00131_35756_8922.N1	01-JAN-2009 00:42:12	Bright	40.000	6	13Alp Aur	0.080000	3400.0	80	35756	No
18	GOM_TRA_1PNPDE20090101_005422_000000342075_00131_35756_8923.N1	01-JAN-2009 00:54:22	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	35756	No
19	GOM_TRA_1PNPDE20090101_005850_000000382075_00131_35756_8924.N1	01-JAN-2009 00:58:50	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	35756	No
20	GOM_TRA_1PNPDE20090101_010241_000000372075_00131_35756_8925.N1	01-JAN-2009 01:02:41	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	35756	No
21	GOM_TRA_1PNPDE20090101_010952_000000322075_00131_35756_8926.N1	01-JAN-2009 01:09:52	Bright	32.000	180	27Gam Boo	3.0400	8000.0	64	35756	No
22	GOM_TRA_1PNPDE20090101_011306_000000352075_00131_35756_8927.N1	01-JAN-2009 01:13:06	Bright	35.000	67	5Alp CrB	2.2210	11000.	70	35756	No
23	GOM_TRA_1PNPDE20090101_011850_000000542075_00131_35756_8928.N1	01-JAN-2009 01:18:50	Bright	54.000	102	24Alp Ser	2.6000	4250.0	108	35756	No
24	GOM_TRA_1PNPDE20090101_012356_000000432075_00131_35756_8929.N1	01-JAN-2009 01:23:56	Bright	43.000	104	27Bet Lib	2.6140	13100.	86	35756	No
25	GOM_TRA_1PNPDE20090101_013613_000000402075_00131_35756_9057.N1	01-JAN-2009 01:36:13	Dark	39.500	95	Zet Cen	2.5450	26000.	79	35756	No
26	GOM_TRA_1PNPDE20090101_013834_000000422075_00132_35757_9058.N1	01-JAN-2009 01:38:34	Dark	41.500	10	Bet Cen	0.61000	28000.	83	35757	No
27	GOM_TRA_1PNPDE20090101_014506_000000392075_00132_35757_9059.N1	01-JAN-2009 01:45:06	Dark	39.000	124	The Car	2.7640	30000.	78	35757	No
28	GOM_TRA_1PNPDE20090101_014702_000000392075_00132_35757_9060.N1	01-JAN-2009 01:47:02	Dark	39.000	29	Bet Car	1.6720	10200.	78	35757	No
29	GOM_TRA_1PNPDE20090101_014826_000000422075_00132_35757_9061.N1	01-JAN-2009 01:48:26	Dark	41.500	71	lot Car	2.2460	7700.0	83	35757	No
30	GOM_TRA_1PNPDE20090101_015001_000000532075_00132_35757_9062.N1	01-JAN-2009 01:50:01	Dark	52.500	41	Eps Car	1.8600	4100.0	105	35757	No
31	GOM_TRA_1PNPDE20090101_015413_000000492075_00132_35757_9063.N1	01-JAN-2009 01:54:13	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	35757	No
32	GOM_TRA_1PNPDE20090101_015728_000000472075_00132_35757_9064.N1	01-JAN-2009 01:57:28	Dark	46.500	117	Pi Pup	2.7060	3800.0	93	35757	No
33	GOM_TRA_1PNPDE20090101_020015_000000432075_00132_35757_9065.N1	01-JAN-2009 02:00:15	Straylight	43.000	23	21Eps CMa	1.5020	26000.	86	35757	No
34	GOM_TRA_1PNPDE20090101_020148_000000442075_00132_35757_9066.N1	01-JAN-2009 02:01:48	Straylight	44.000	179	24Omi2CMa	3.0320	24000.	88	35757	No
35	GOM_TRA_1PNPDE20090101_020415_000000512075_00132_35757_9067.N1	01-JAN-2009 02:04:15	Straylight	50.500	1	9Alp CMa	-1.4400	11000.	101	35757	No
36	GOM_TRA_1PNPDE20090101_020723_000000442075_00132_35757_9068.N1	01-JAN-2009 02:07:23	Straylight	44.000	7	19Bet Ori	0.10000	14000.	88	35757	No
37	GOM_TRA_1PNPDE20090101_020915_000000412075_00132_35757_9069.N1	01-JAN-2009 02:09:15	Straylight	41.000	30	46Eps Ori	1.6940	30000.	82	35757	No
38	GOM_TRA_1PNPDE20090101_021146_000000492075_00132_35757_9070.N1	01-JAN-2009 02:11:46	Tw_i_and_stray	48.500	14	58Alp Ori	0.87000	3000.0	97	35757	No
39	GOM_TRA_1PNPDE20090101_021544_000000392075_00132_35757_9071.N1	01-JAN-2009 02:15:44	Bright	38.500	176	23Zet Tau	3.0200	22000.	77	35757	No
40	GOM_TRA_1PNPDE20090101_021750_000000392075_00132_35757_9072.N1	01-JAN-2009 02:17:50	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	35757	No
41	GOM_TRA_1PNPDE20090101_021906_000000372075_00132_35757_9073.N1	01-JAN-2009 02:19:06	Bright	37.000	114	3lot Aur	2.6930	4600.0	74	35757	No
42	GOM_TRA_1PNPDE20090101_022039_000000392075_00132_35757_9074.N1	01-JAN-2009 02:20:39	Bright	38.500	107	37The Aur	2.6490	11000.	77	35757	No
43	GOM_TRA_1PNPDE20090101_022246_000000402075_00132_35757_9075.N1	01-JAN-2009 02:22:46	Bright	40.000	6	13Alp Aur	0.080000	3400.0	80	35757	No
44	GOM_TRA_1PNPDE20090101_023456_000000352075_00132_35757_9076.N1	01-JAN-2009 02:34:56	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	35757	No
45	GOM_TRA_1PNPDE20090101_023924_000000362075_00132_35757_9077.N1	01-JAN-2009 02:39:24	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	35757	No
46	GOM_TRA_1PNPDE20090101_024315_000000372075_00132_35757_9210.N1	01-JAN-2009 02:43:15	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	35757	No
47	GOM_TRA_1PNPDE20090101_025027_000000322075_00132_35757_9211.N1	01-JAN-2009 02:50:27	Bright	32.000	180	27Gam Boo	3.0400	8000.0	64	35757	No
48	GOM_TRA_1PNPDE20090101_025340_000000552075_00132_35757_9212.N1	01-JAN-2009 02:53:40	Bright	55.000	67	5Alp CrB	2.2210	11000.	110	35757	No
49	GOM_TRA_1PNPDE20090101_025925_000000352075_00132_35757_9213.N1	01-JAN-2009 02:59:25	Bright	34.500	102	24Alp Ser	2.6000	4250.0	69	35757	No
50	GOM_TRA_1PNPDE20090101_030430_000000372075_00132_35757_9214.N1	01-JAN-2009 03:04:30	Bright	36.500	104	27Bet Lib	2.6140	13100.	73	35757	No

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



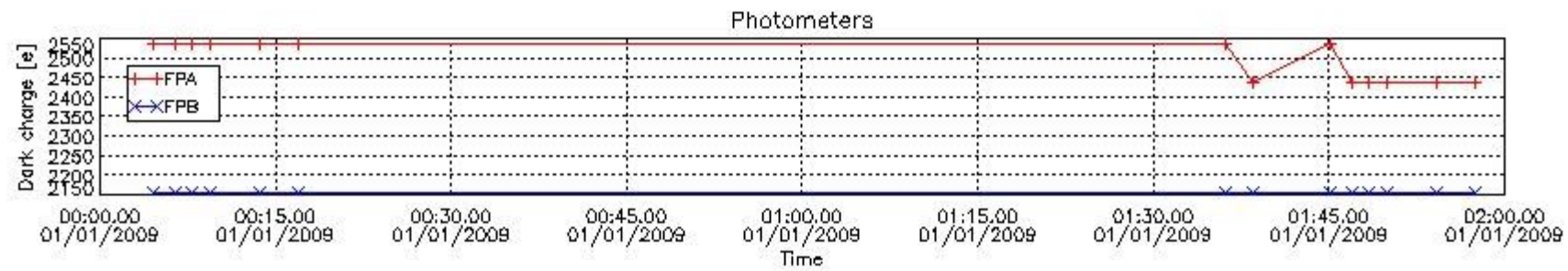
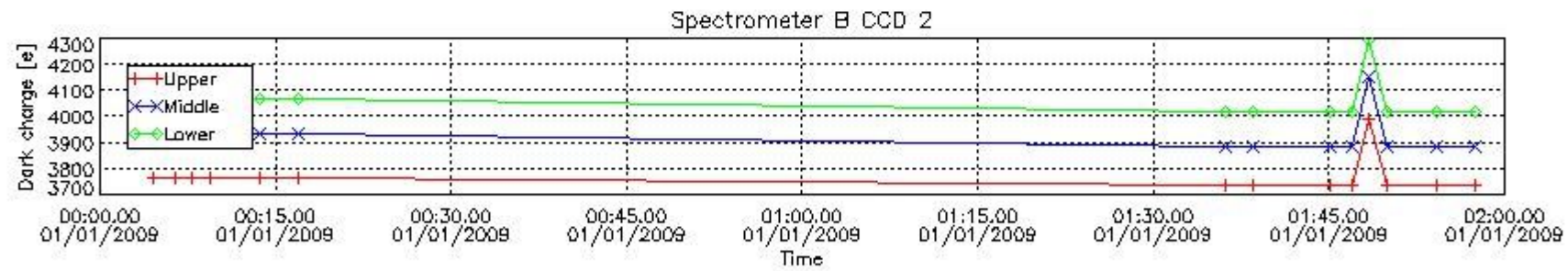
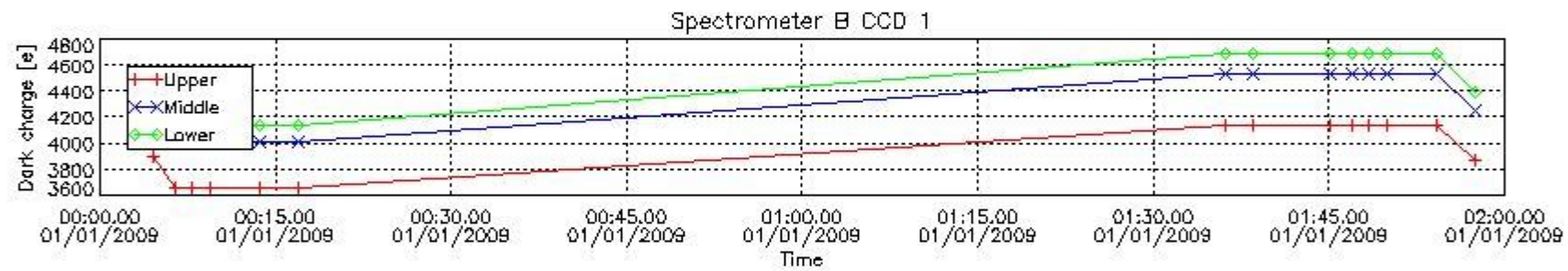
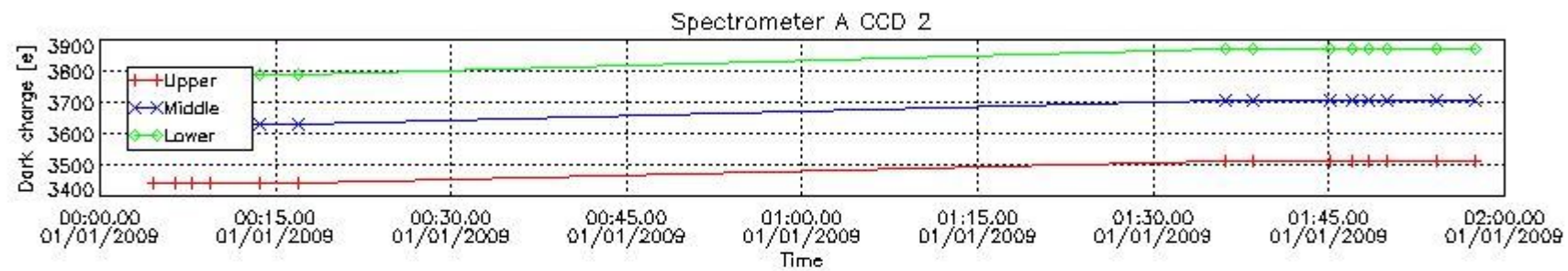
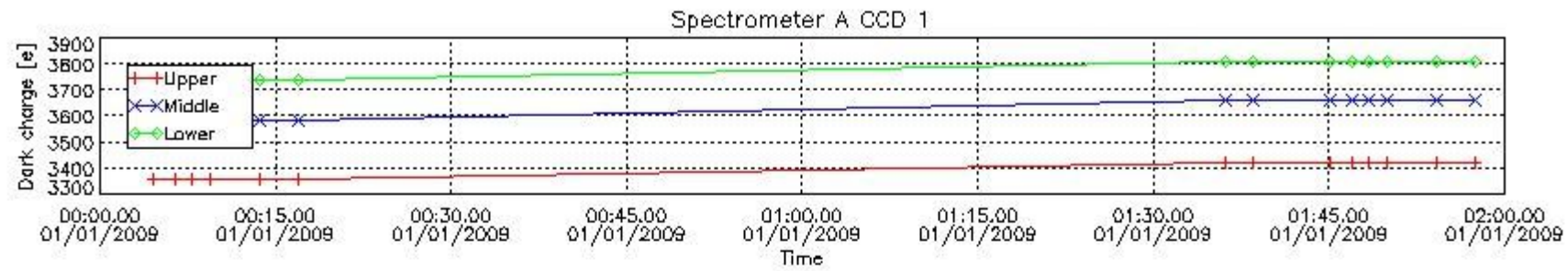
4. Overview of dark signal processing per product

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



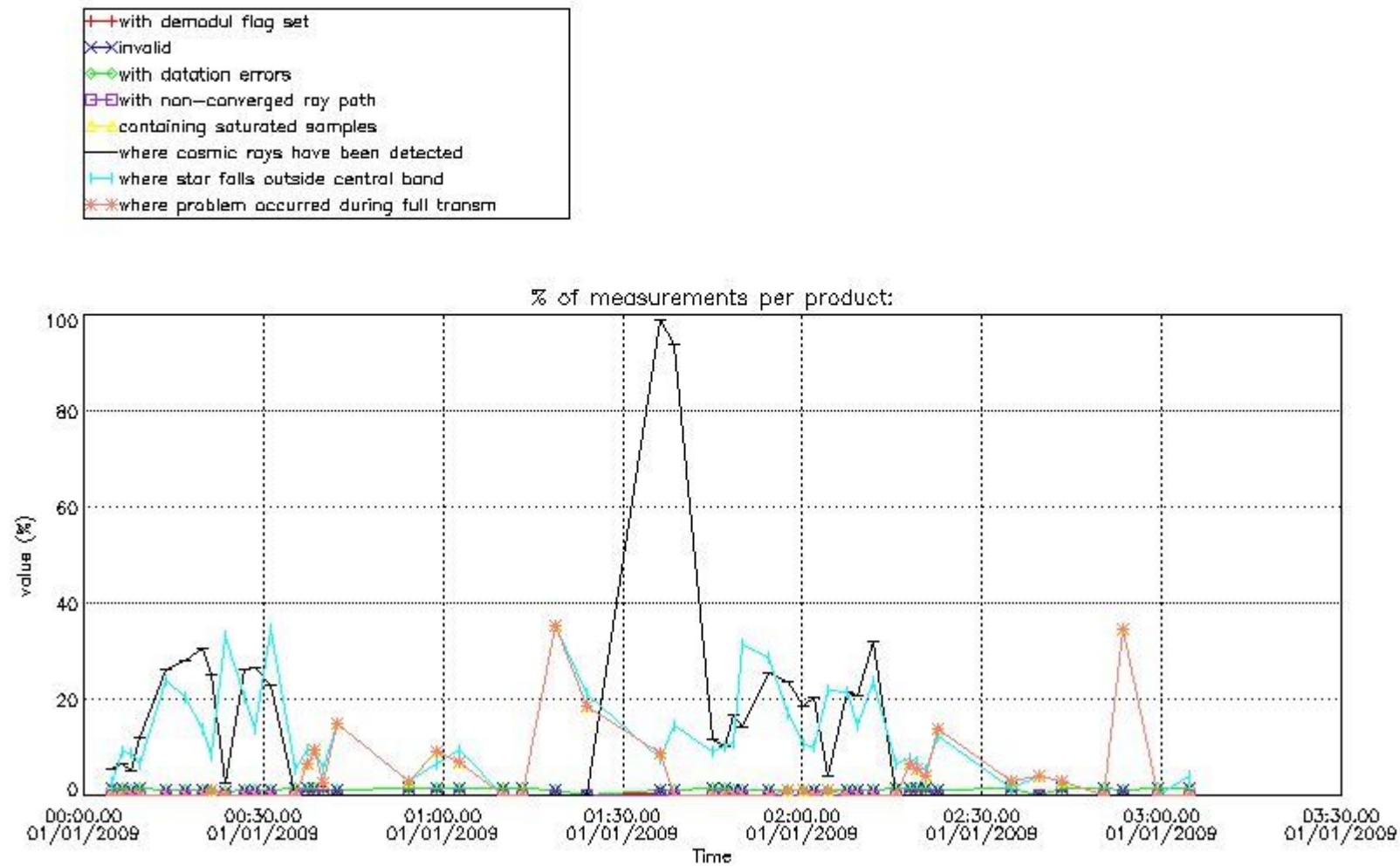
5. Demodulation flag and quality information monitoring

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.

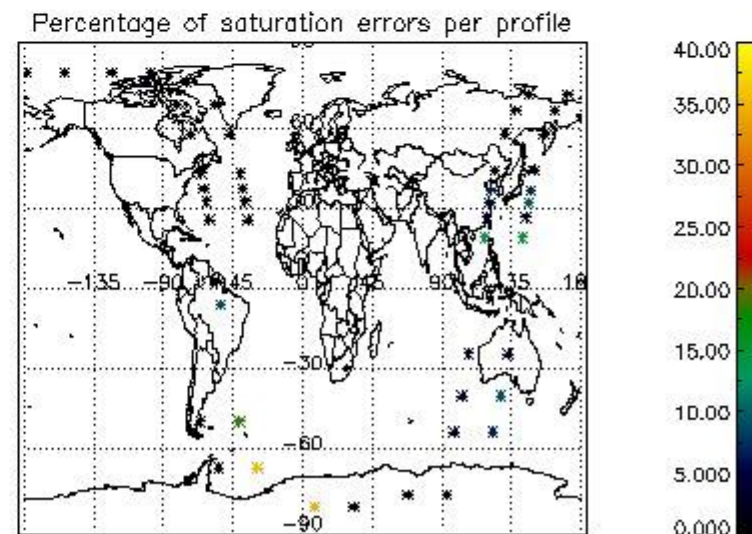
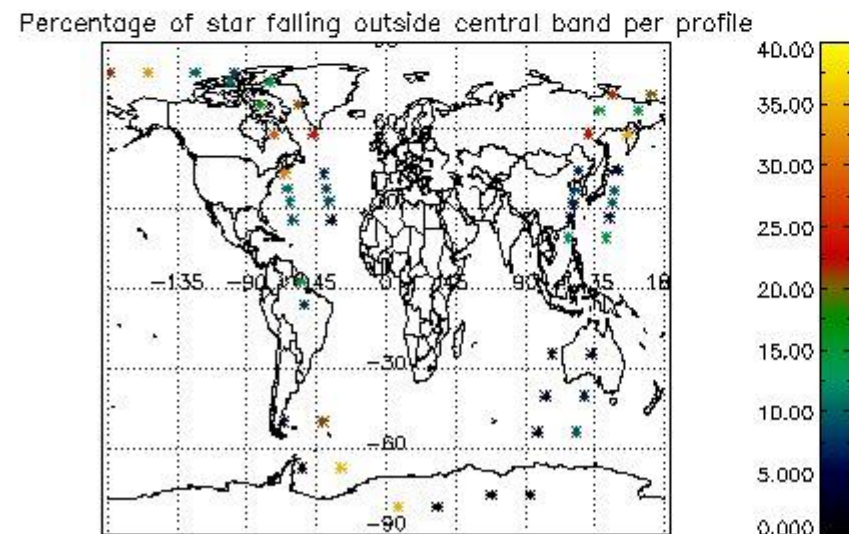
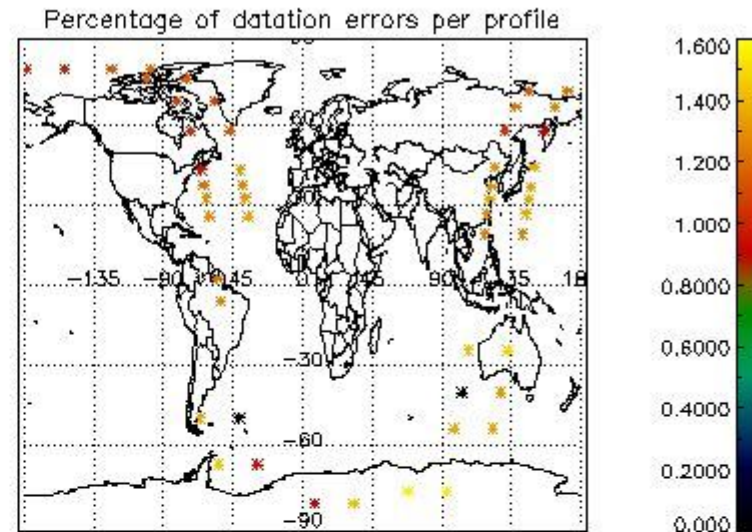
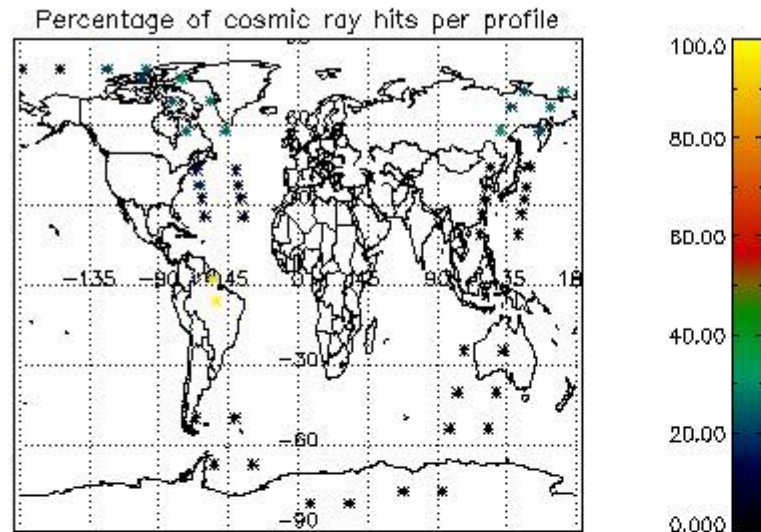
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



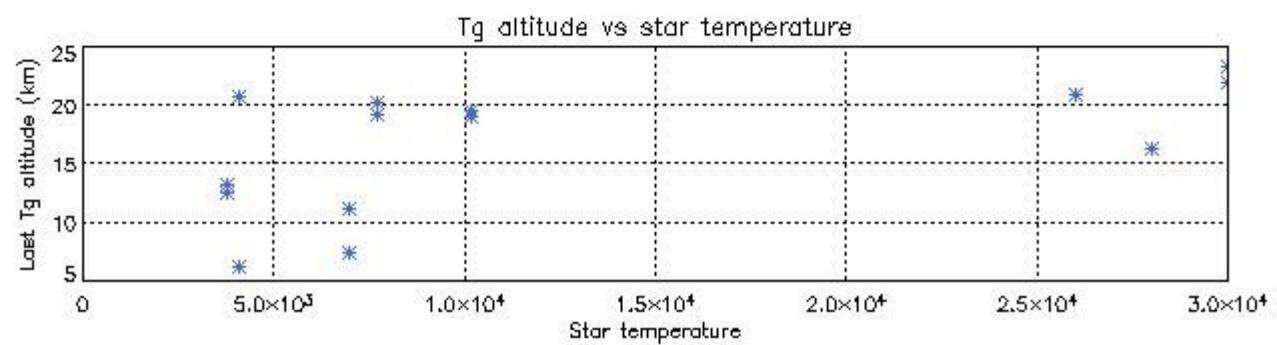
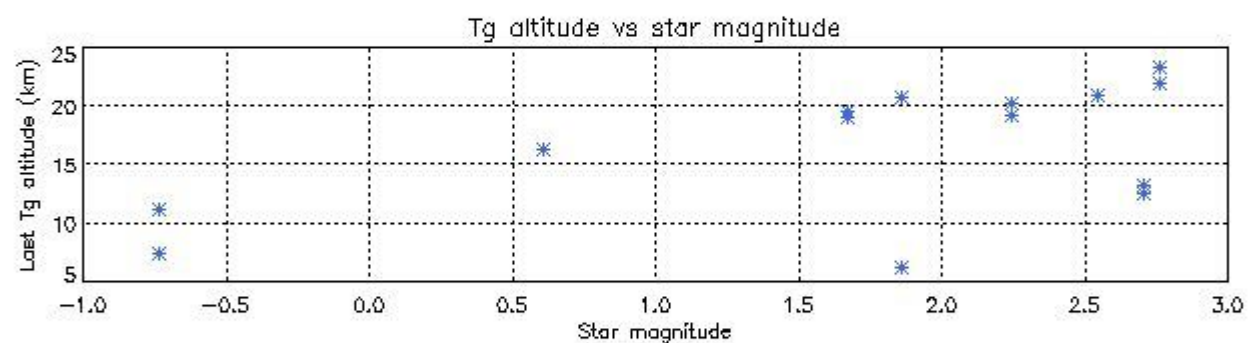
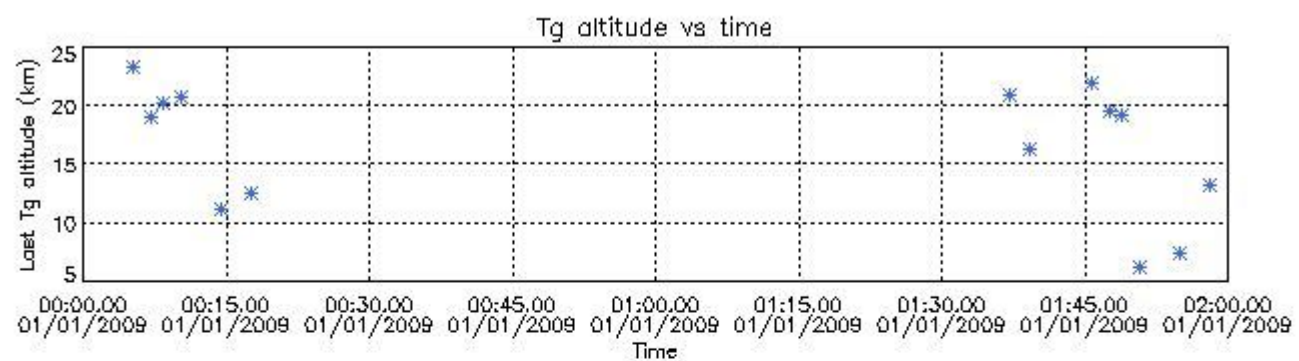
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.518	22.598	NaN
St. deviation:	5.5071	9.9049	NaN
Maximum:	23.293	48.407	NaN
Minimum:	6.1421	4.7362	NaN
Number of data:	14.000	24.000	NaN

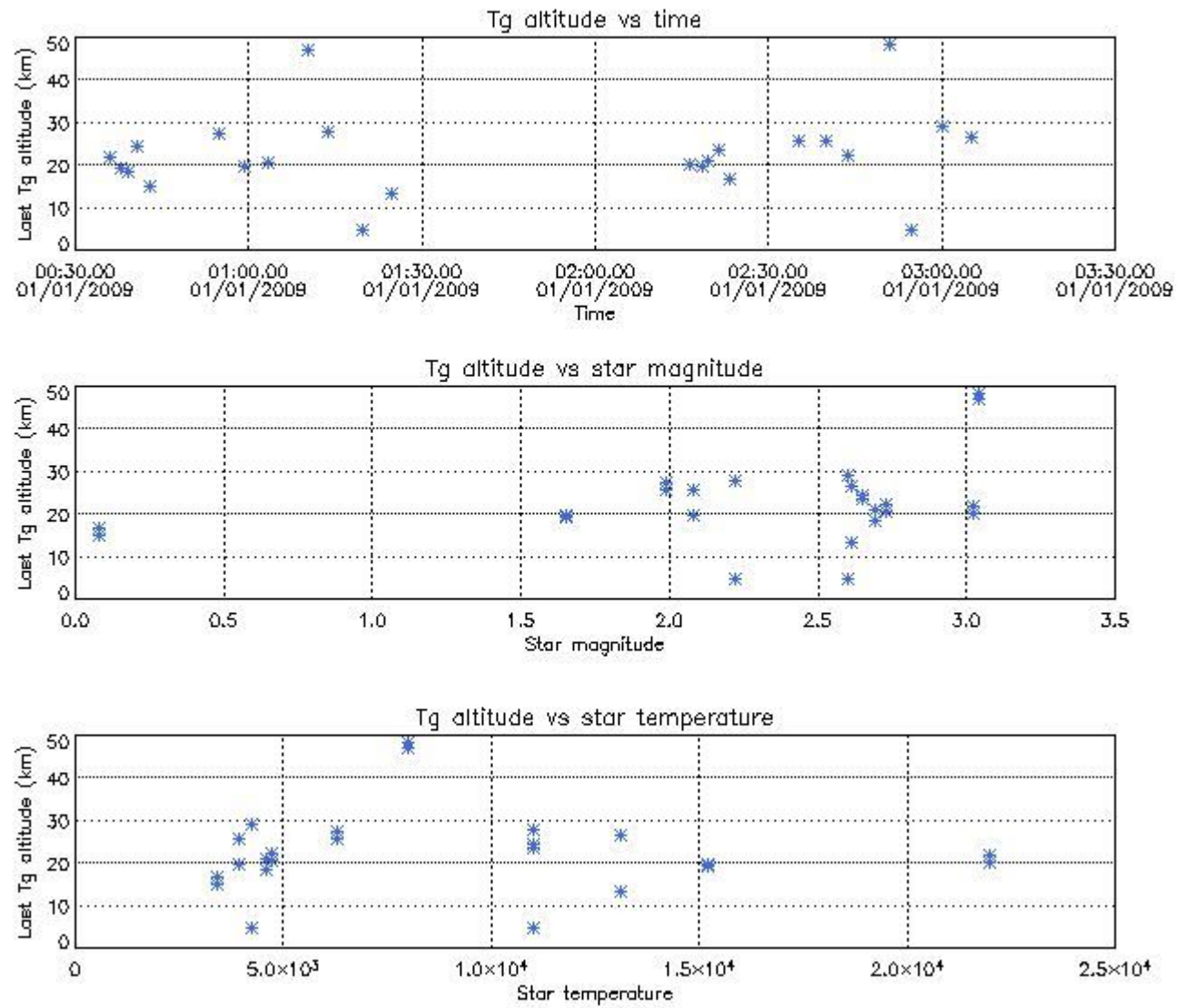
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

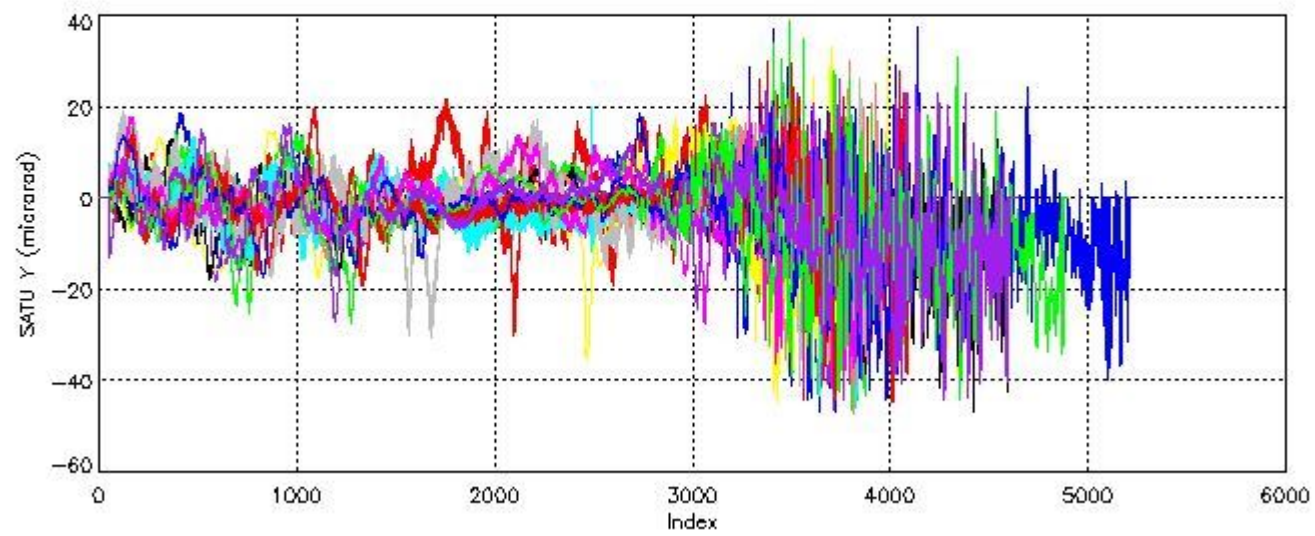
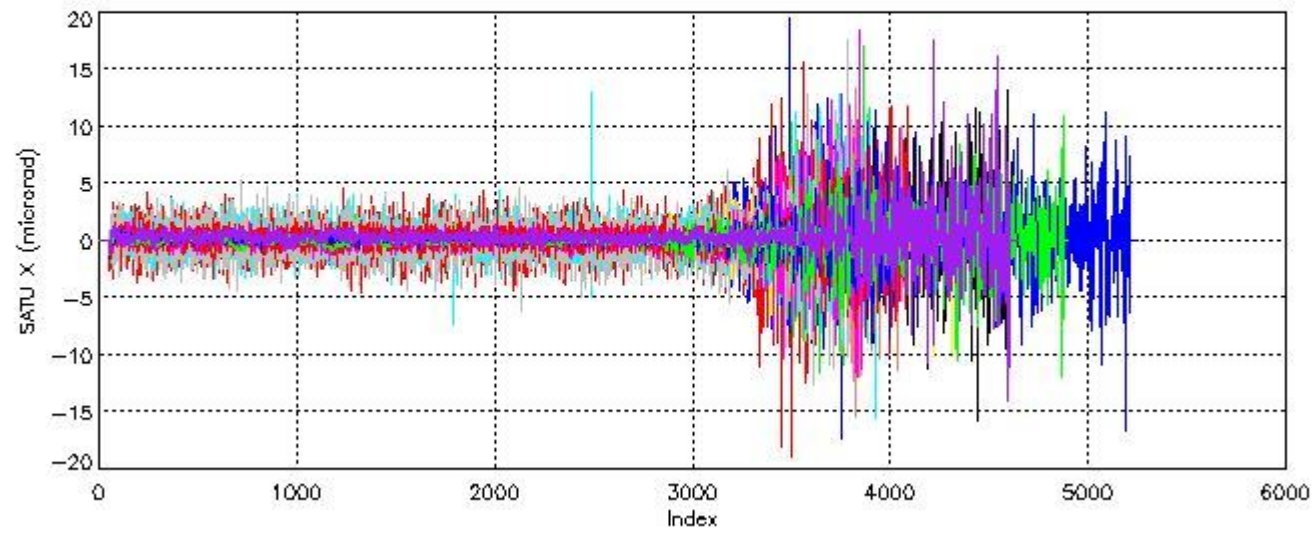


7. Star Acquisition and Tracking Unit (SATU)

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:	0.13009	-0.45152	0.060367	-1.1410
St. deviation:	0.60802	6.0246	0.86145	4.8368
Maximum:	5.2000	18.800	5.5000	17.000
Minimum:	-4.4000	-25.300	-5.9000	-21.600

Number of data:	13600.	13600.	22500.	22500.
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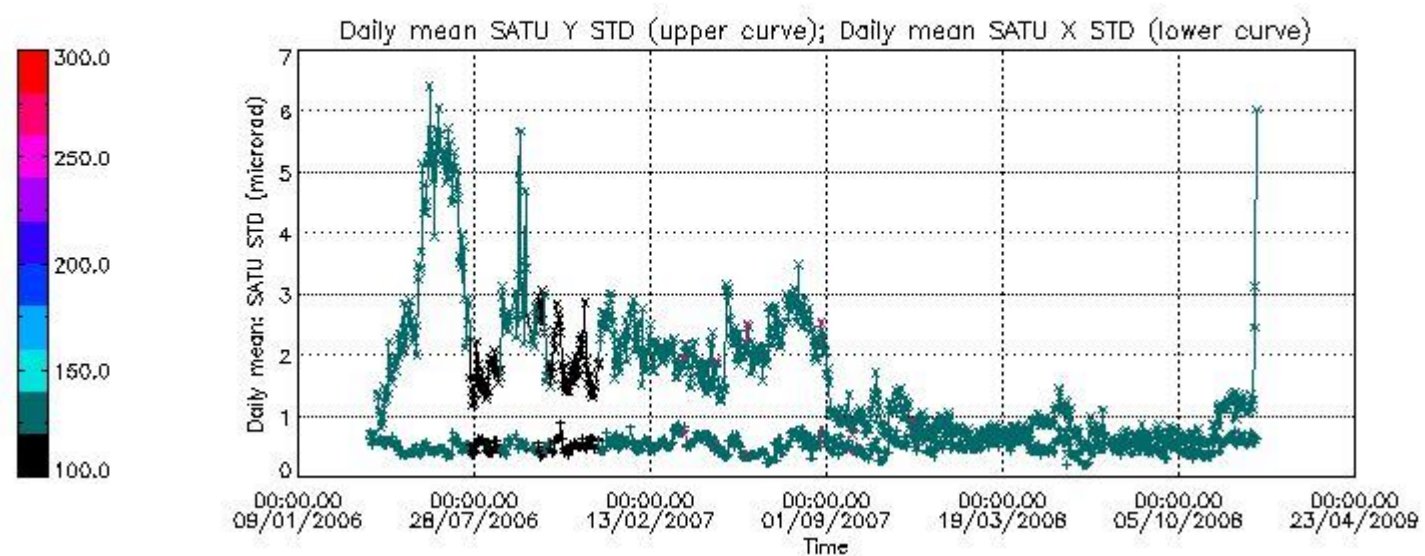
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

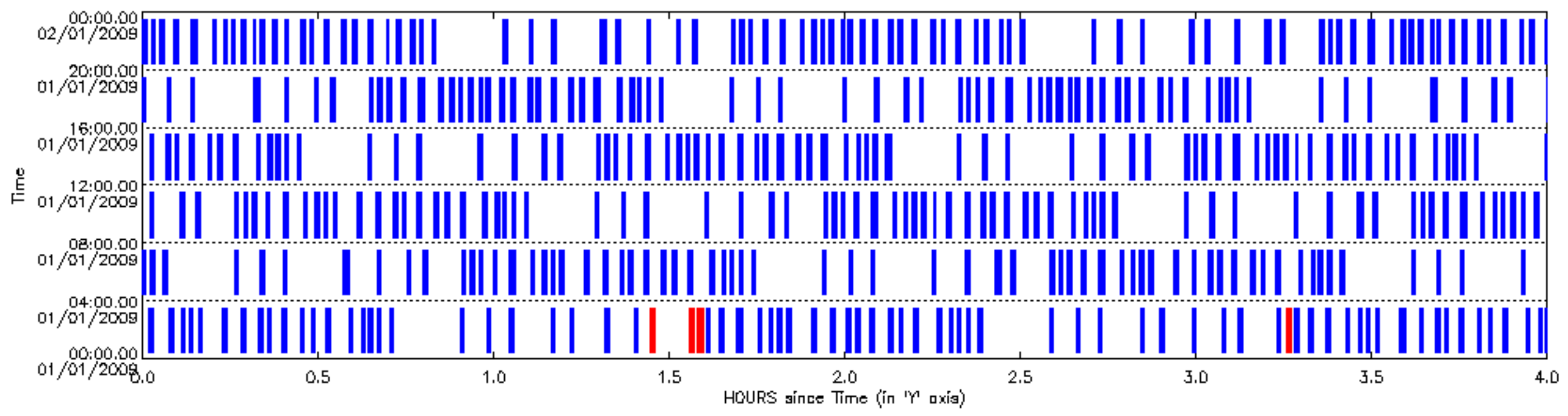
Lower curve: STD of SATU X axis

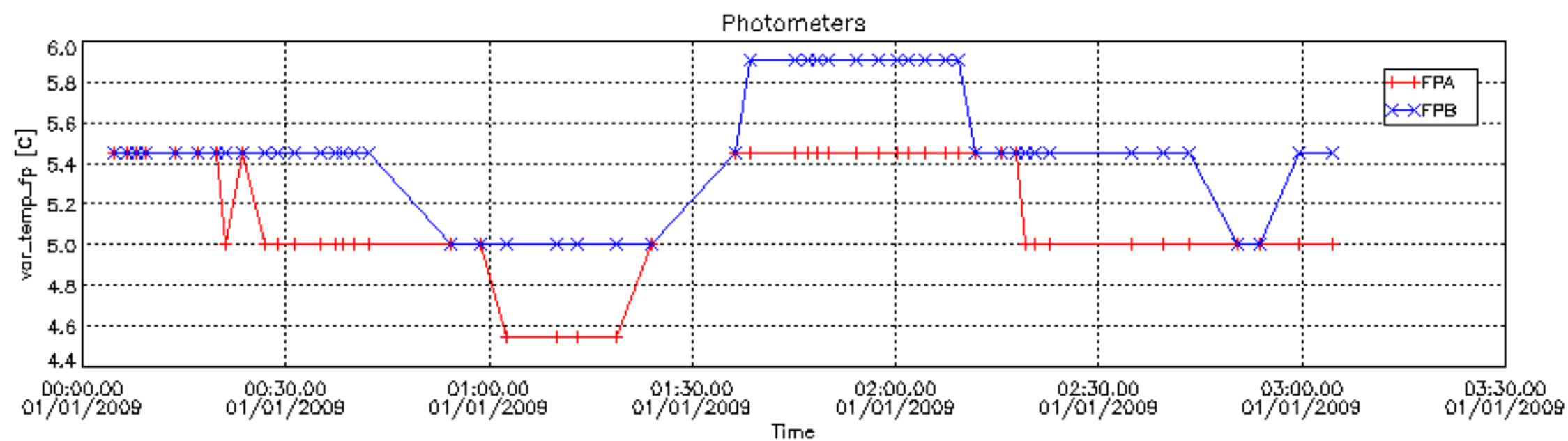
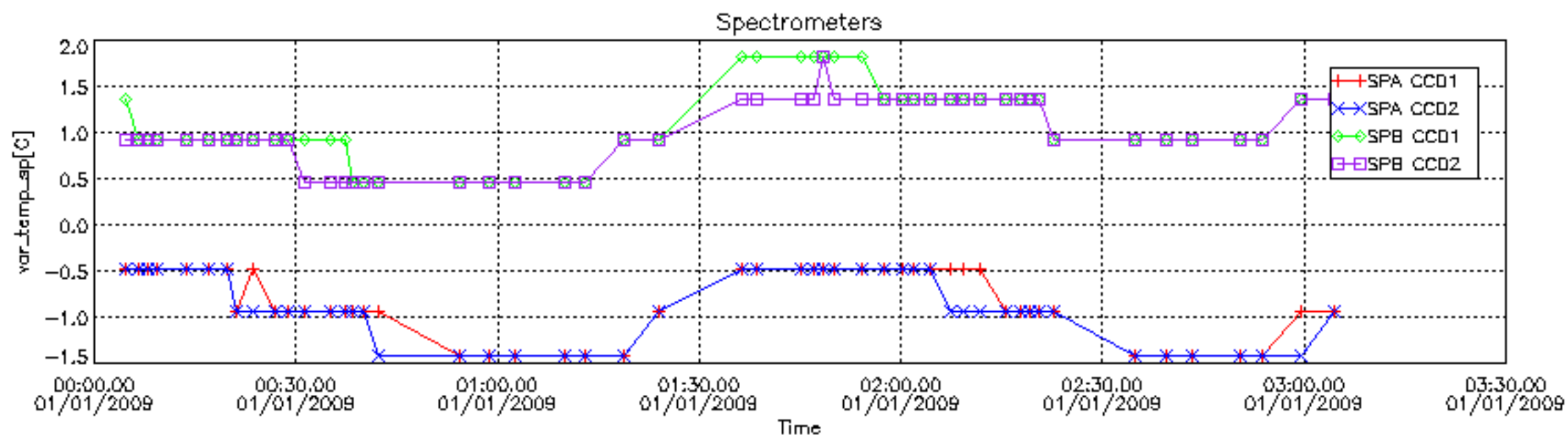


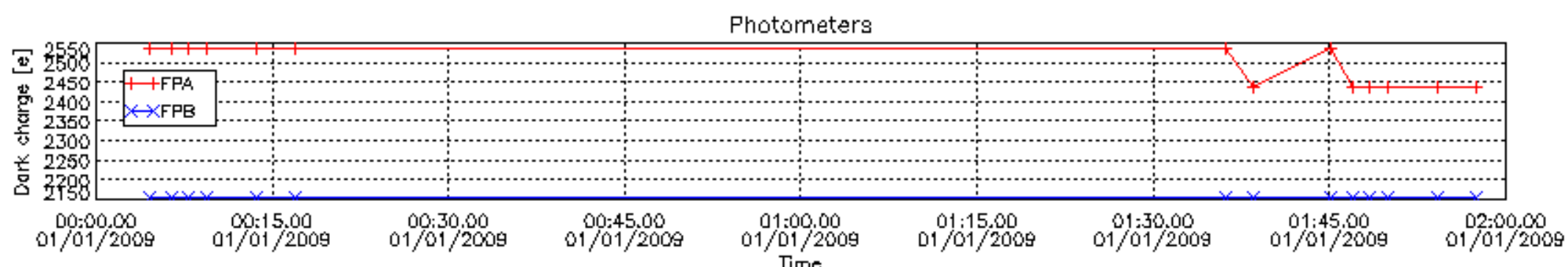
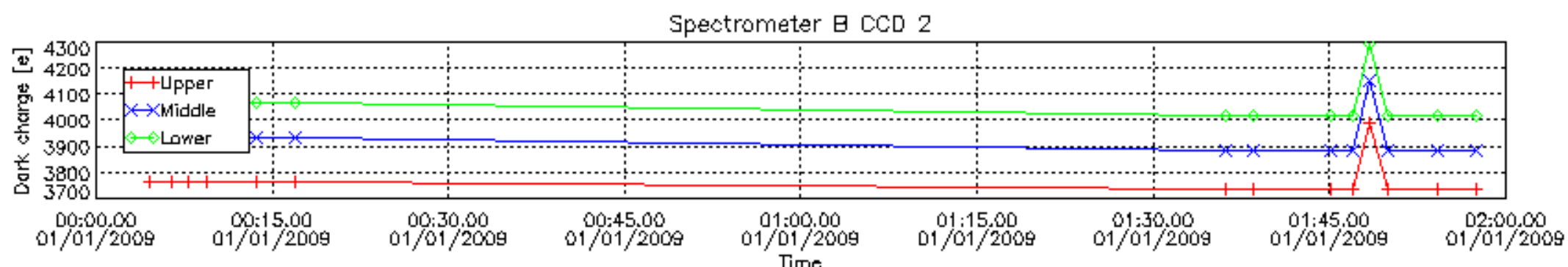
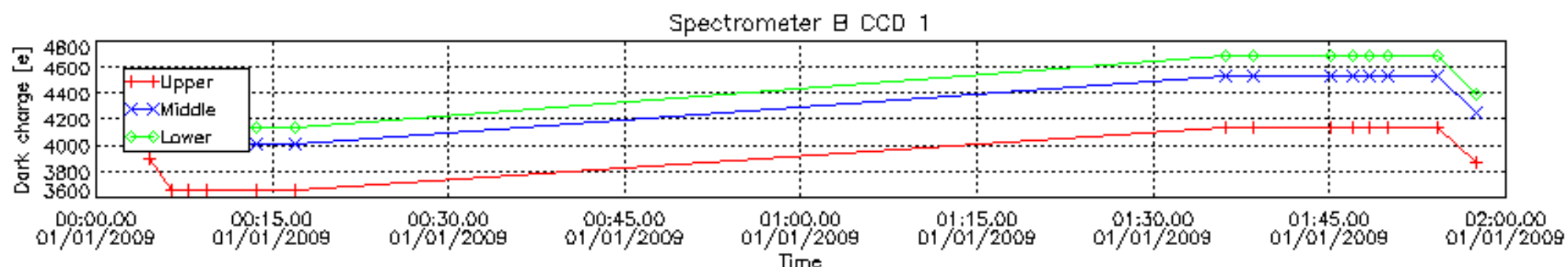
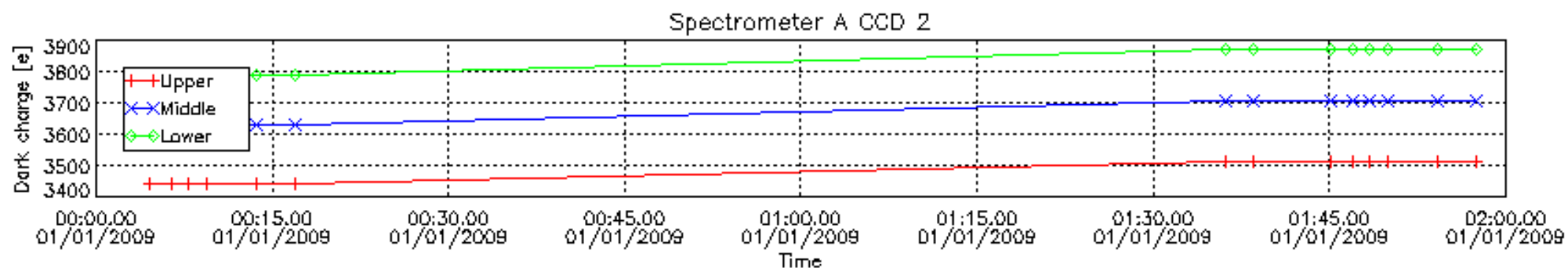
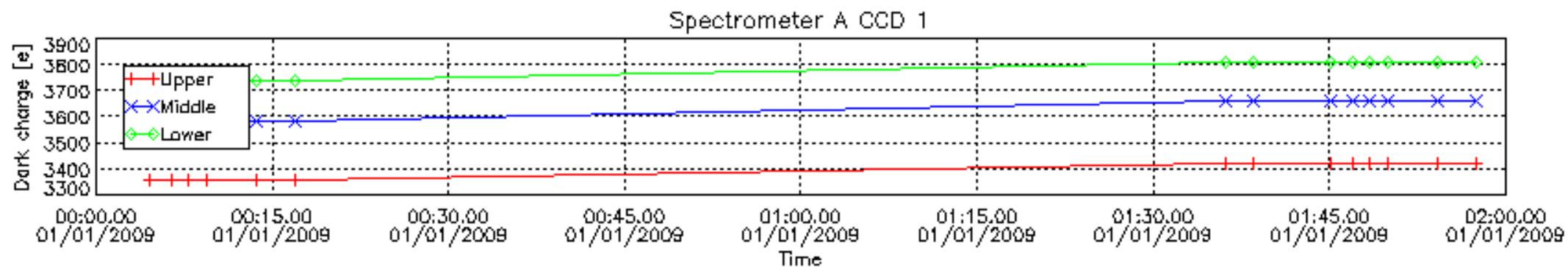
8. Auxiliary Data Files used for the production reported in section 2.4

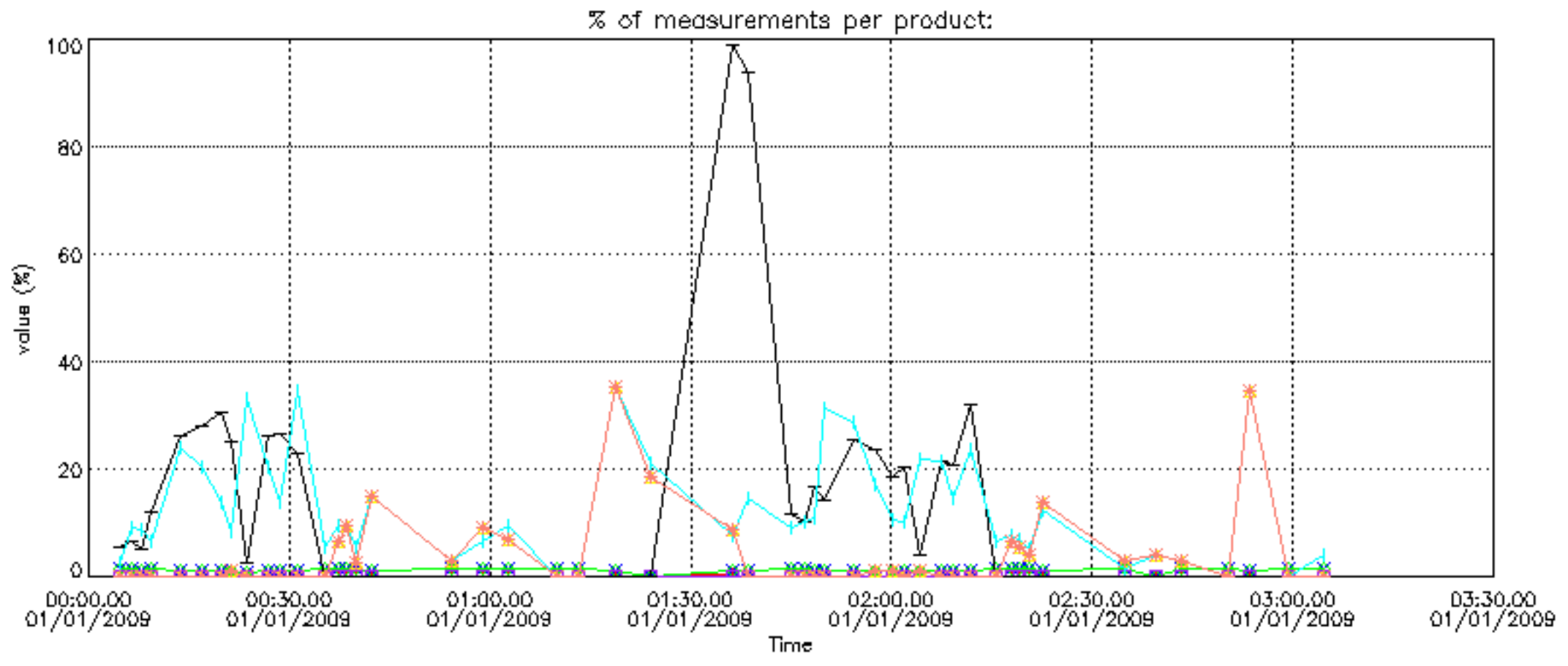
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	01-JAN-2009 00:04:32
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20081229_162214_20081227_000000_20100101_000000	1	01-JAN-2009 00:04:32
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	01-JAN-2009 00:04:32
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-JAN-2009 00:04:32
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	01-JAN-2009 00:04:32
ECMWF_FILE	AUX_ECF_AXNECM20081231_064110_20081231_210000_20090101_090000	1	01-JAN-2009 00:04:32
OPTIONAL_ECMWF_FILE	MISSING	1	01-JAN-2009 00:04:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081231_220246_000057382075_00129_35754_7073.N1	1	01-JAN-2009 00:04:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081231_233824_000060572075_00130_35755_7074.N1	25	01-JAN-2009 01:36:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090101_012440_000041442075_00131_35756_7075.N1	46	01-JAN-2009 02:43:15

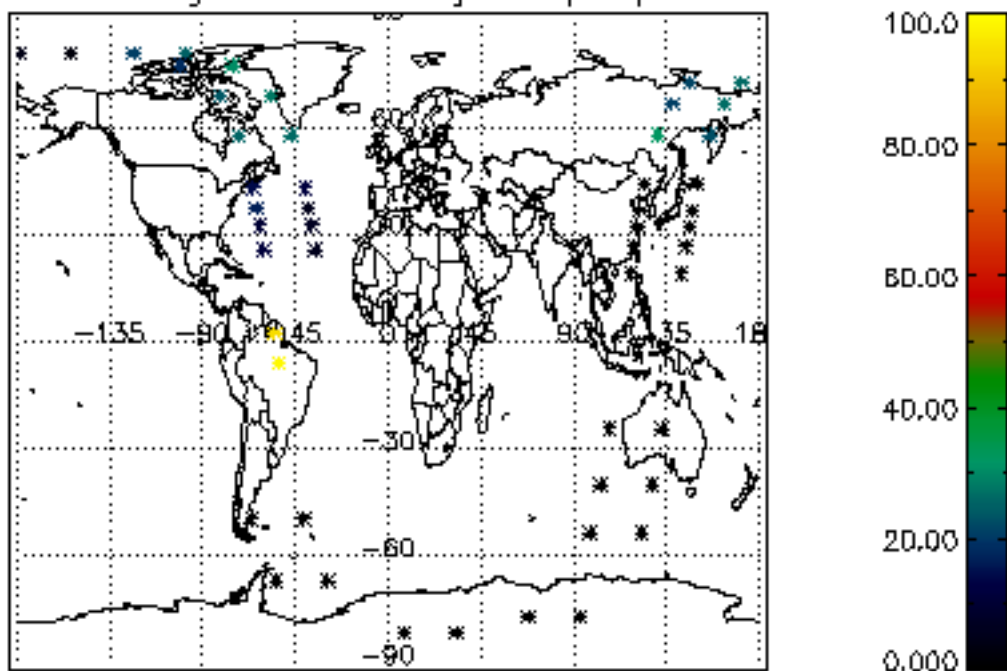




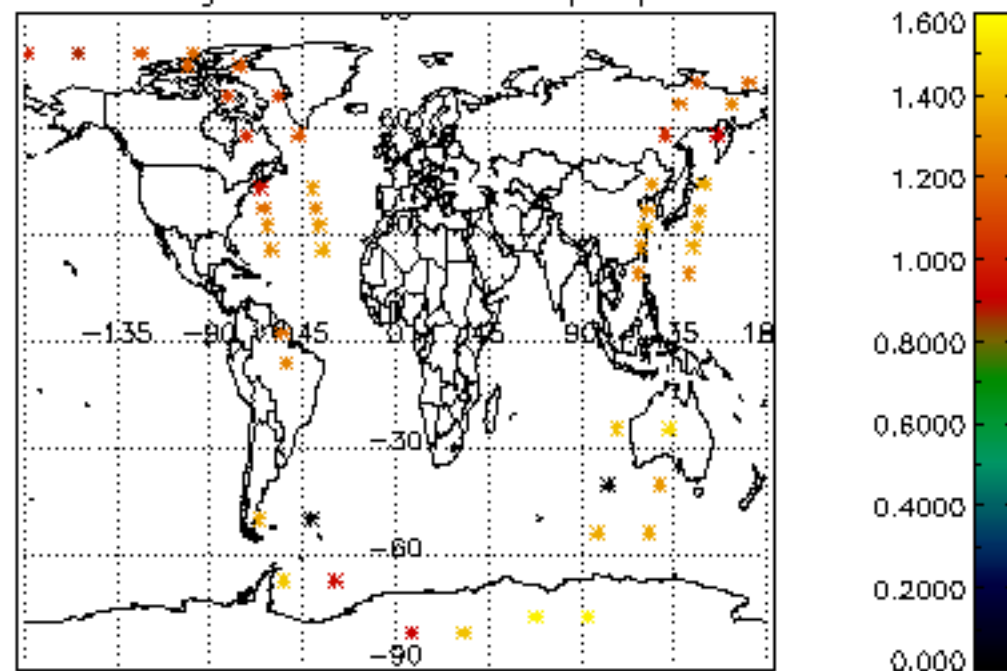




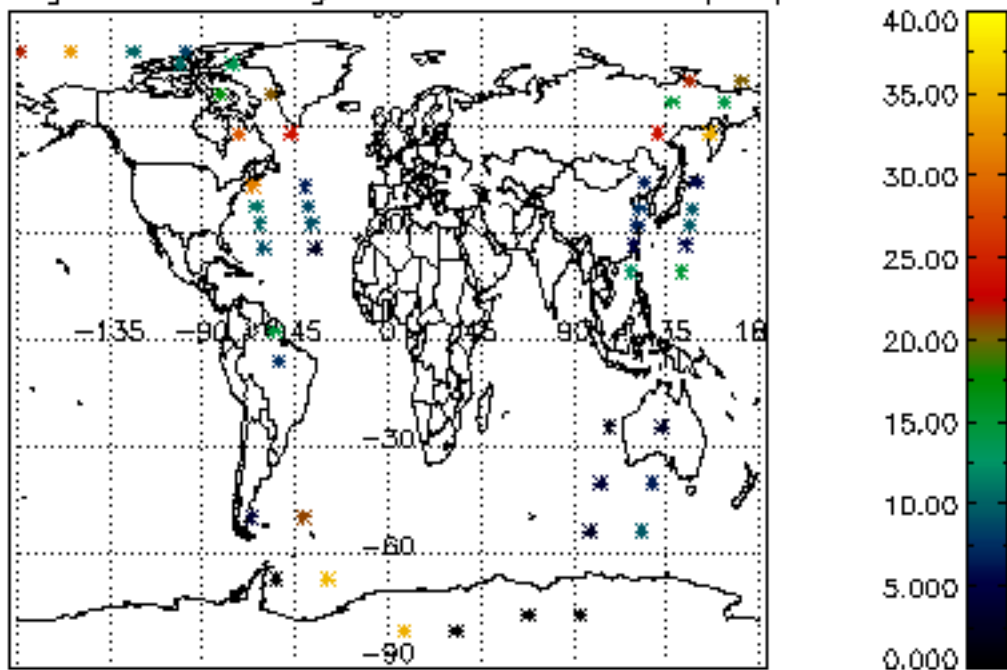
Percentage of cosmic ray hits per profile



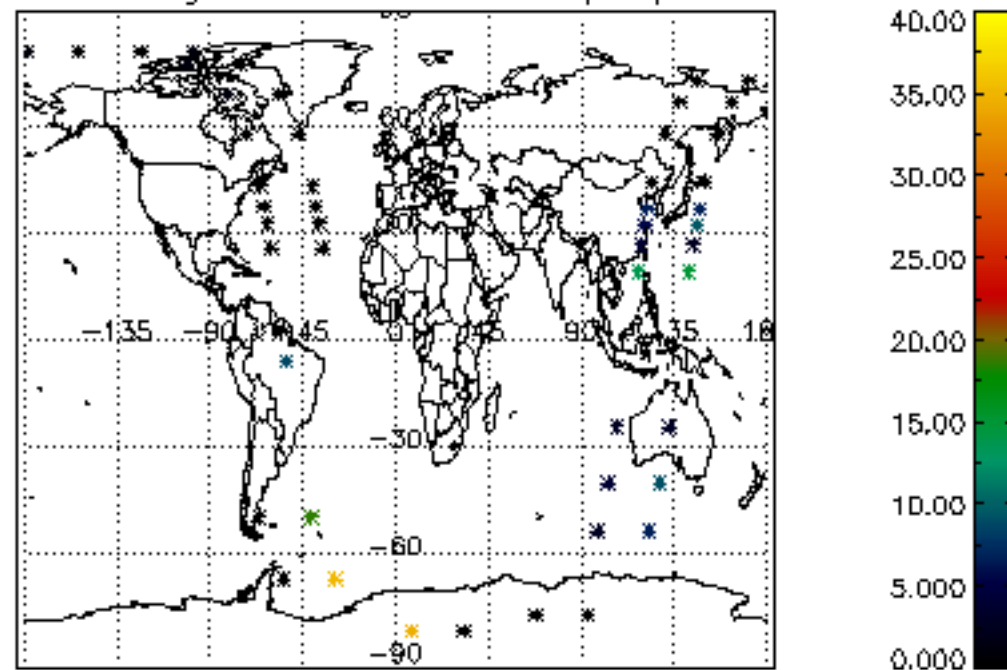
Percentage of datation errors per profile



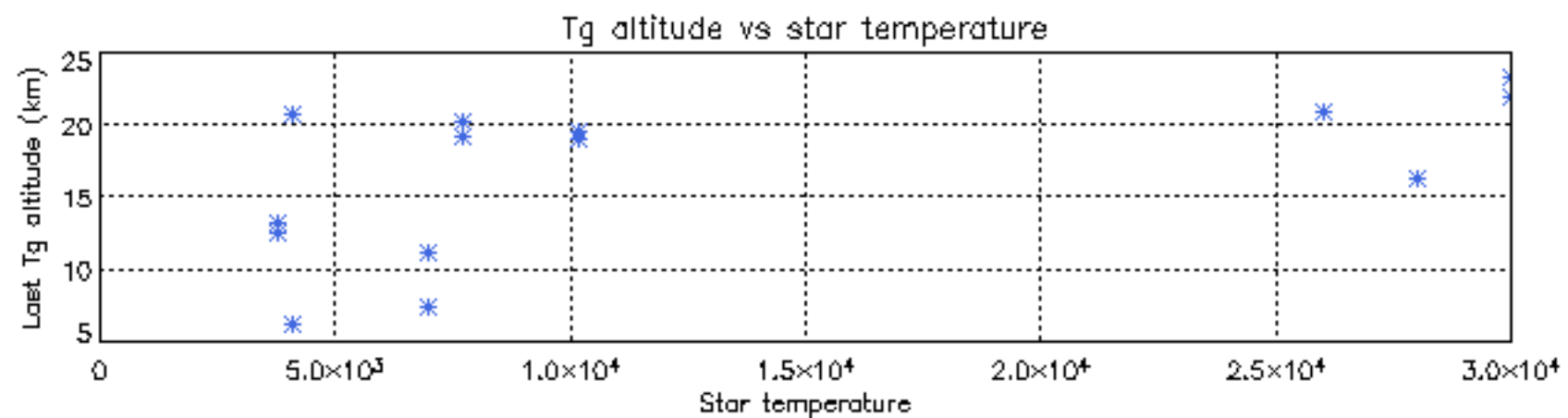
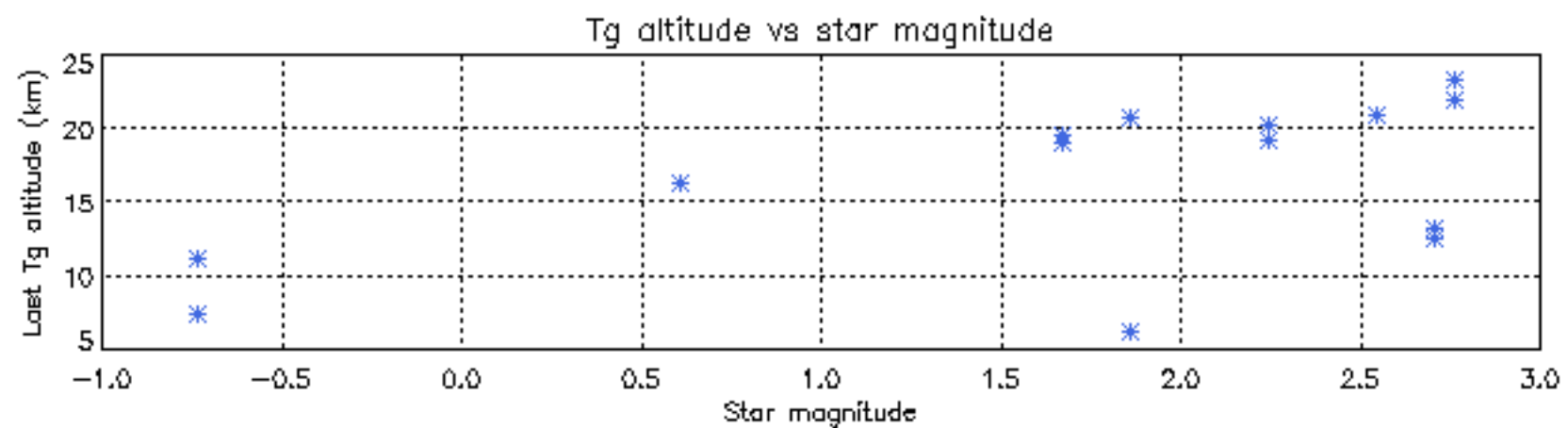
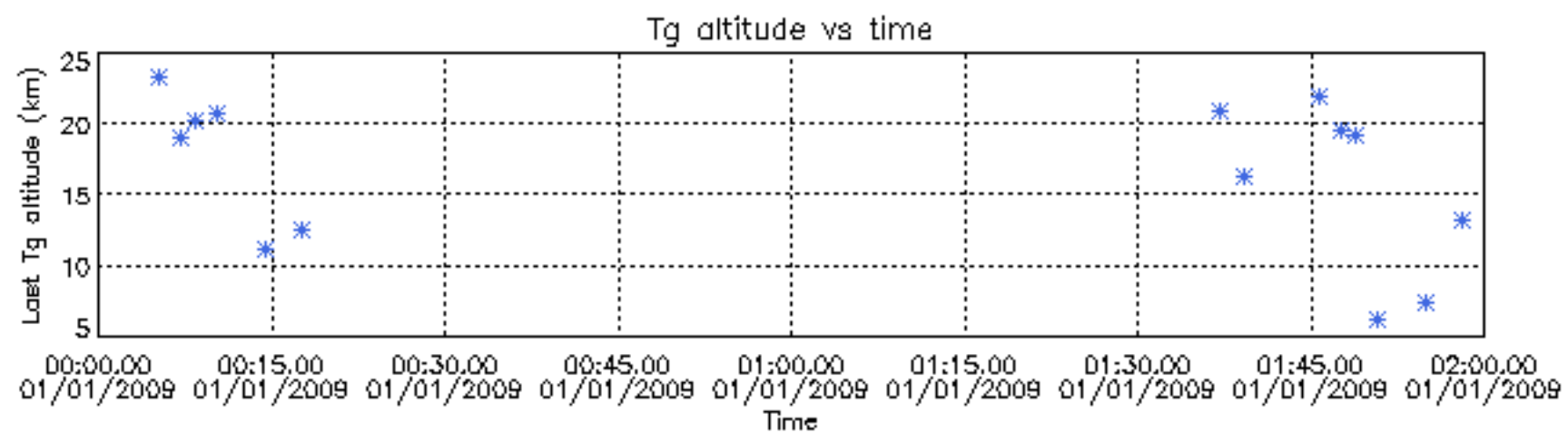
Percentage of star falling outside central band per profile



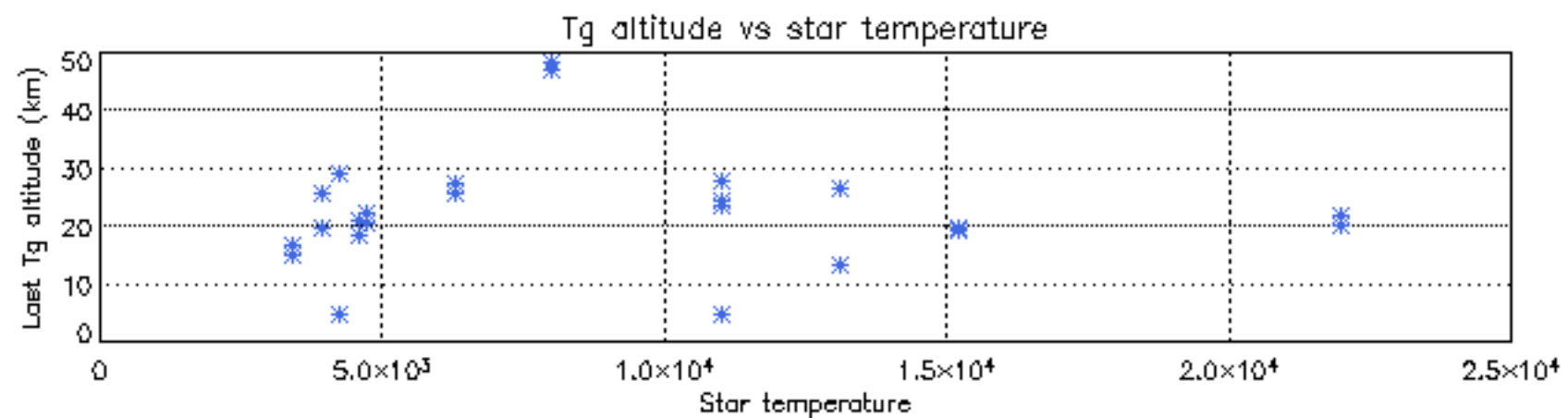
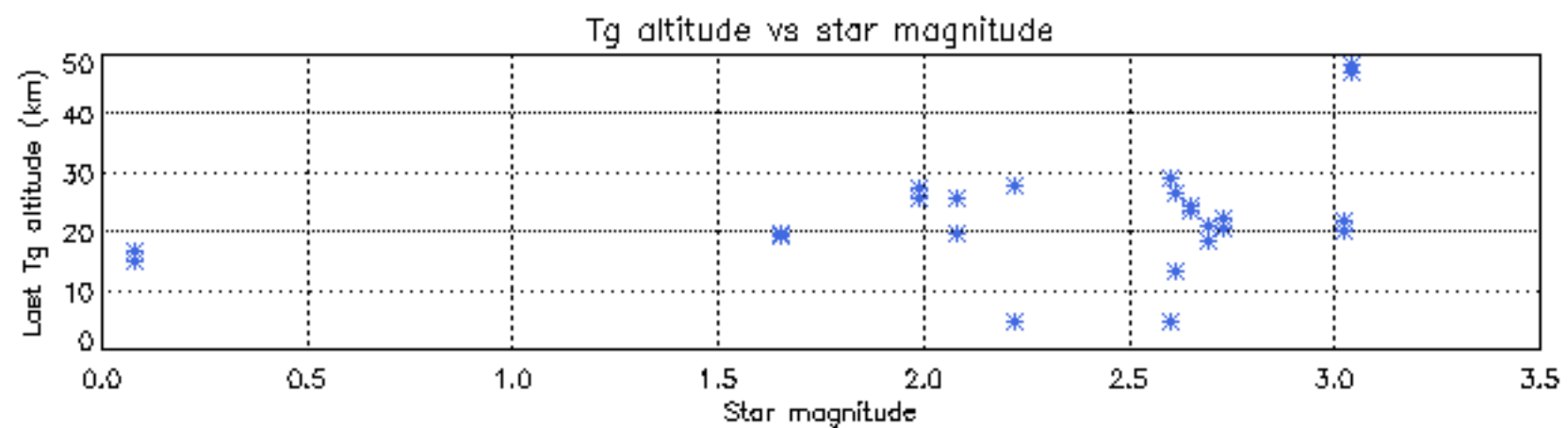
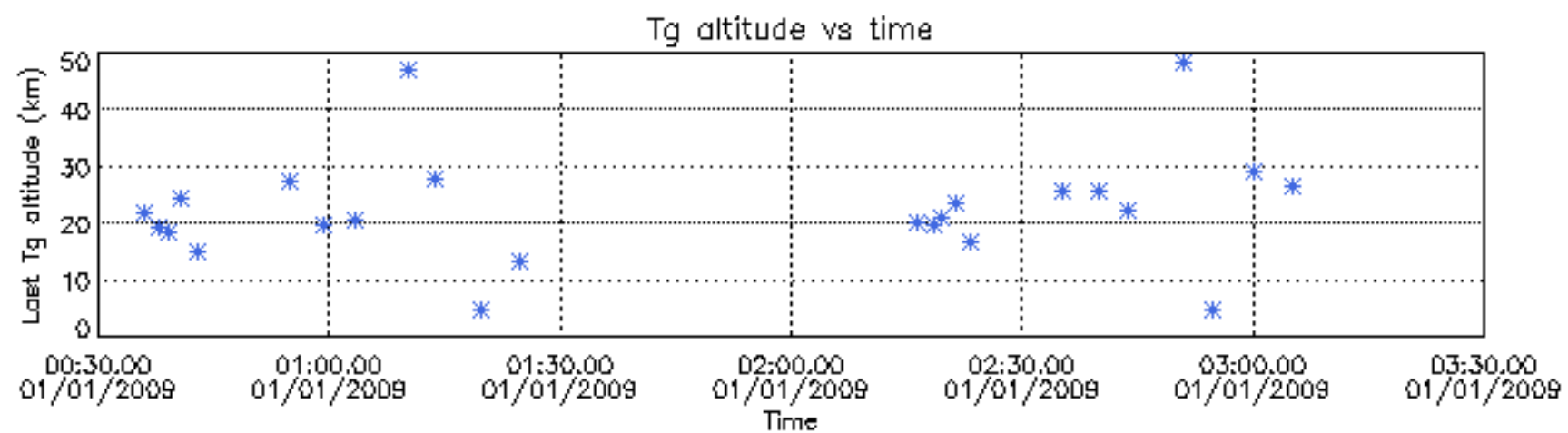
Percentage of saturation errors per profile

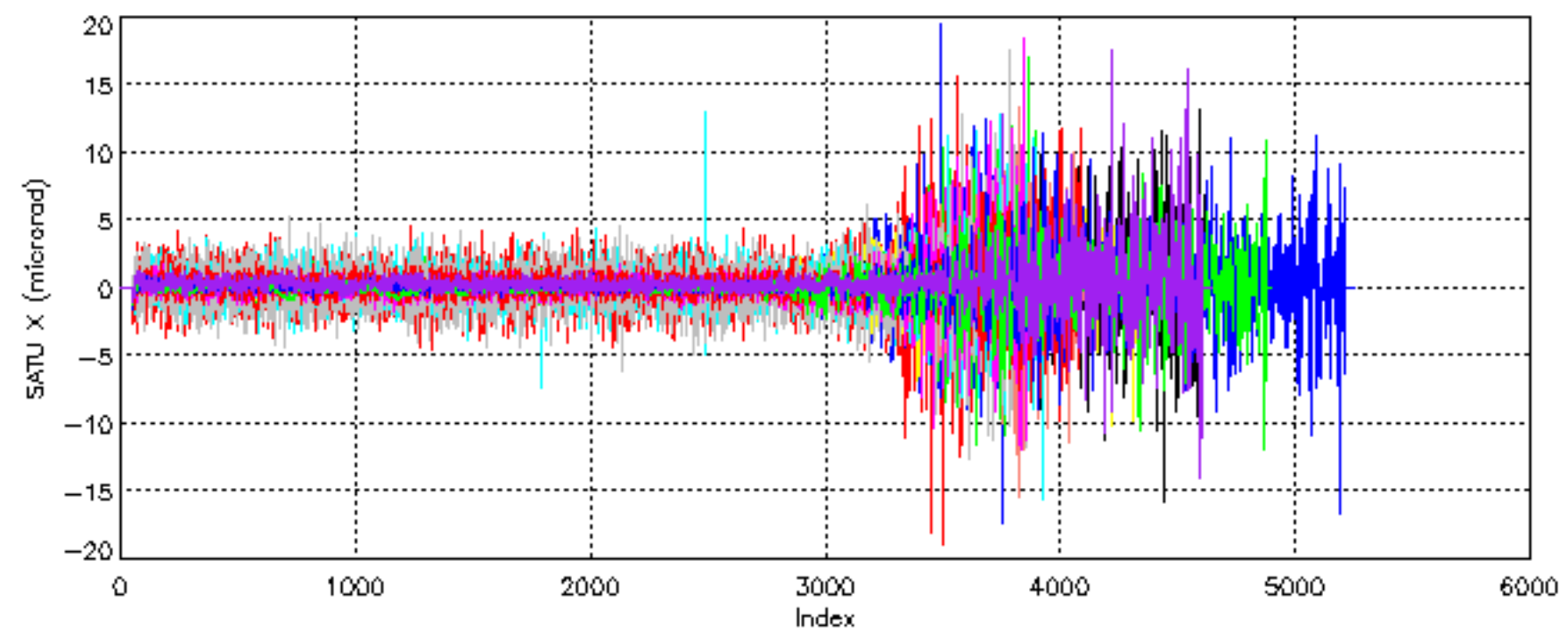


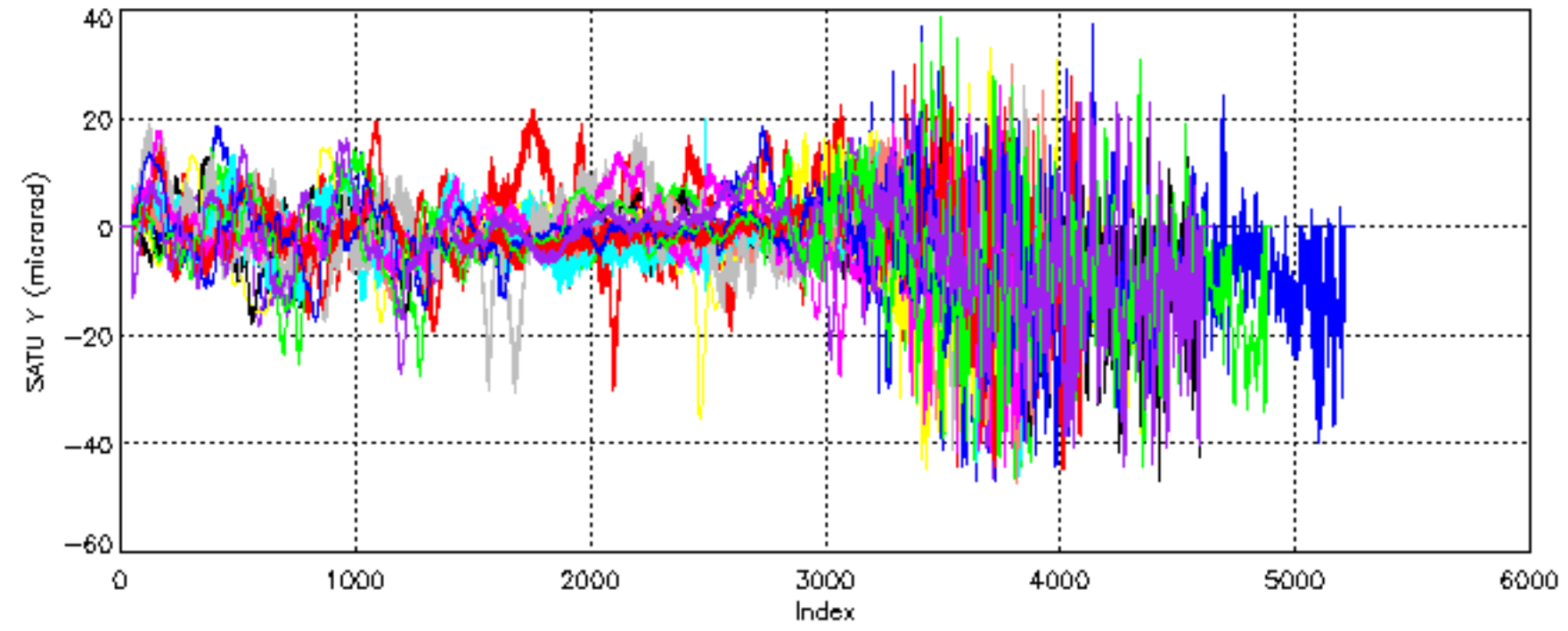
Tangent altitude at which the star is lost

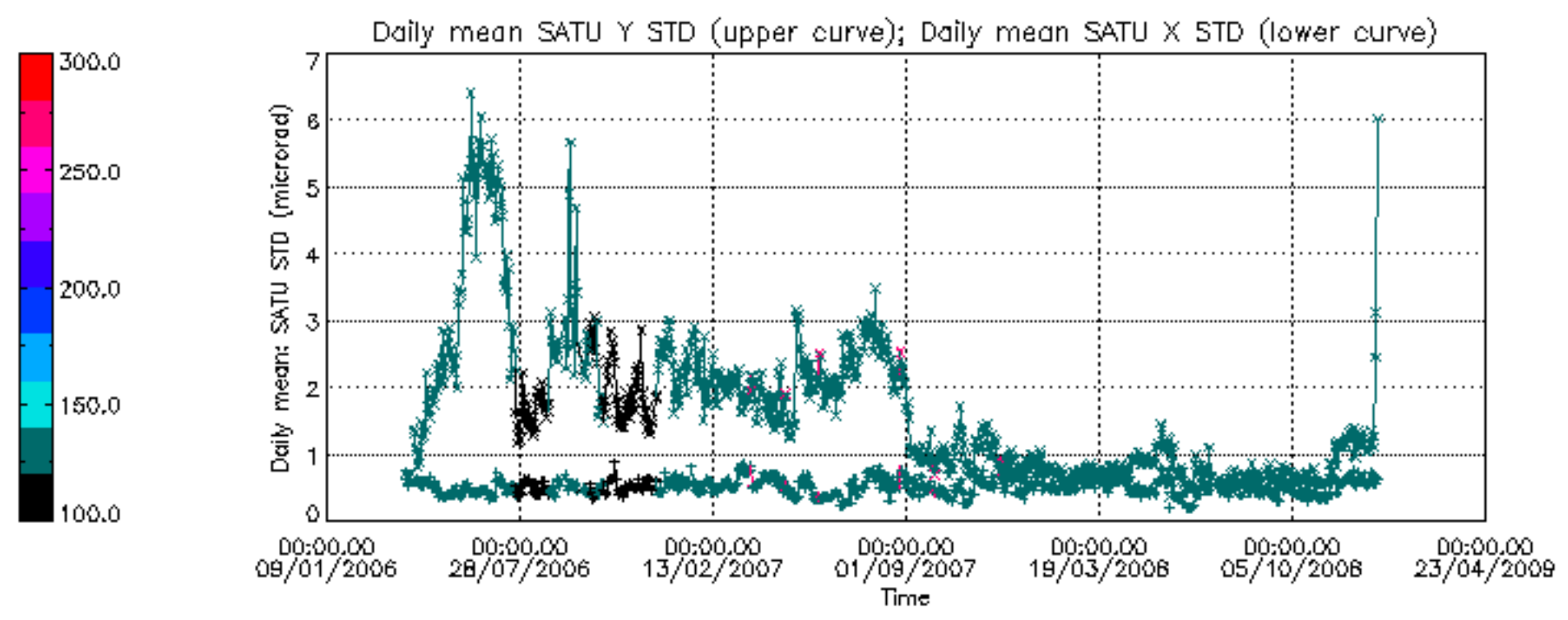


Tangent altitude at which the star is lost









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

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 2; -1682.7; 01-JAN-2009 02:50:28; Bright; 32.0; 180; 27Gam Boo ; 3.04; 8000;occ; 64; 0;35757
 3; -1489.1; 01-JAN-2009 02:53:41; Bright; 55.0; 67; 5Alp CrB ; 2.22; 11000;occ; 110; 0;35757
 4; -1144.0; 01-JAN-2009 02:59:26; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;35757
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 6; -679.6; 01-JAN-2009 03:07:11; Dark ; 46.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 92; 0;35757
 7; -278.4; 01-JAN-2009 03:13:52; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;35757
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 9; 41.8; 01-JAN-2009 03:19:12; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;35758
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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
 17; 1342.1; 01-JAN-2009 03:40:52; Dark ; 48.0; 23; 21Eps CMA ; 1.50; 26000;occ; 96; 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
 23; 2270.7; 01-JAN-2009 03:56:21; Bright; 38.0; 176; 23Zet Tau ; 3.02; 22000;occ; 76; 0;35758
 24; 2397.1; 01-JAN-2009 03:58:27; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35758
 25; 2472.7; 01-JAN-2009 03:59:43; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;35758
 26; 2566.0; 01-JAN-2009 04:01:16; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;35758
 27; 2692.4; 01-JAN-2009 04:03:23; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;35758
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 4; -1144.0; 01-JAN-2009 04:40:02; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;35758
 5; -839.2; 01-JAN-2009 04:45:07; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;35758
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 12; 433.6; 01-JAN-2009 05:06:20; Dark ; 26.0; 124; The Car ; 2.76; 30000;occ; 52; 0;35759
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 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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18; 1342.9; 01-JAN-2009 05:21:29; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;35759
19; 1434.7; 01-JAN-2009 05:23:01; Dark ; 44.0; 179; 240mi2CMa ; 3.03; 24000;occ; 88; 0;35759
20; 1582.6; 01-JAN-2009 05:25:29; Dark ; 50.5; 1; 9Alp CMa ; -1.44; 11000;occ; 101; 0;35759
21; 1770.4; 01-JAN-2009 05:28:37; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;35759
22; 1881.5; 01-JAN-2009 05:30:28; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;35759
23; 2032.3; 01-JAN-2009 05:32:59; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;35759
24; 2270.7; 01-JAN-2009 05:36:57; Bright; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;35759
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26; 2472.8; 01-JAN-2009 05:40:19; Bright; 38.5; 114; 3Iot Aur ; 2.69; 4600;occ; 77; 0;35759
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
29; 3423.6; 01-JAN-2009 05:56:10; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;35759
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2; 1056.1; 01-JAN-2009 20:22:06; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;35768
3; 1178.2; 01-JAN-2009 20:24:08; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0;35768
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
6; 1583.8; 01-JAN-2009 20:30:53; Dark ; 51.5; 1; 9Alp CMa ; -1.44; 11000;occ; 103; 0;35768
7; 1772.5; 01-JAN-2009 20:34:02; Dark ; 42.5; 7; 19Bet Ori ; 0.10; 14000;occ; 85; 0;35768
8; 1883.2; 01-JAN-2009 20:35:53; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;35768
9; 2032.9; 01-JAN-2009 20:38:23; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;35768
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
13; 2563.5; 01-JAN-2009 20:47:13; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;35768
14; 2691.1; 01-JAN-2009 20:49:21; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;35768
15; 3423.2; 01-JAN-2009 21:01:33; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;35768
16; 3689.1; 01-JAN-2009 21:05:59; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;35768
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19; 4578.0; 01-JAN-2009 21:20:48; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;35768
20; 4895.0; 01-JAN-2009 21:26:05; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;35768
21; 5201.7; 01-JAN-2009 21:31:11; Bright; 30.5; 104; 27Bet Lib ; 2.61; 13100;occ; 61; 0;35768
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8; 438.2; 01-JAN-2009 21:52:24; Dark ; 40.0; 124; The Car ; 2.76; 30000;occ; 80; 0;35769
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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11; 732.8; 01-JAN-2009 21:57:18; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;35769
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14; 1056.6; 01-JAN-2009 22:02:42; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;35769
15; 1178.9; 01-JAN-2009 22:04:44; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35769
16; 1345.7; 01-JAN-2009 22:07:31; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0;35769
17; 1437.3; 01-JAN-2009 22:09:03; Dark ; 45.0; 179; 240mi2CMa ; 3.03; 24000;occ; 90; 0;35769
18; 1584.0; 01-JAN-2009 22:11:30; Dark ; 51.0; 1; 9Alp CMa ; -1.44; 11000;occ; 102; 0;35769
19; 1772.6; 01-JAN-2009 22:14:38; Dark ; 43.0; 7; 19Bet Ori ; 0.10; 14000;occ; 86; 0;35769
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 15; 4429.8; 04-JAN-2009 07:59:17; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;35803
 16; 4555.2; 04-JAN-2009 08:01:22; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;35803
 17; 4906.8; 04-JAN-2009 08:07:14; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;35803
 18; 5043.0; 04-JAN-2009 08:09:30; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;35803
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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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 23; 5868.0; 04-JAN-2009 08:23:15; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;35803
 24; 5965.2; 04-JAN-2009 08:24:52; Dark ; 43.0; 95; Zet Cen ; 2.55; 26000;occ; 86; 0;35803
 25; 6052.1; 04-JAN-2009 08:26:19; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;35803
 26; 6185.0; 04-JAN-2009 08:28:32; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;35803
 27; 6293.7; 04-JAN-2009 08:30:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35803
 28; 6493.3; 04-JAN-2009 08:33:40; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;35803
 29; 6601.6; 04-JAN-2009 08:35:29; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;35803
 30; 6693.5; 04-JAN-2009 08:37:01; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;35803
 31; 6783.5; 04-JAN-2009 08:38:31; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;35803
 32; 7027.8; 04-JAN-2009 08:42:35; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;35803
 33; 7109.3; 04-JAN-2009 08:43:56; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;35803
 34; 7227.1; 04-JAN-2009 08:45:54; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;35803
 35; 7390.8; 04-JAN-2009 08:48:38; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;35803
 36; 7481.4; 04-JAN-2009 08:50:08; Dark ; 42.0; 179; 240mi2Cma ; 3.03; 24000;occ; 84; 0;35803
 37; 7624.3; 04-JAN-2009 08:52:31; Dark ; 48.0; 1; 9Alp CMa ; -1.44; 11000;occ; 96; 0;35803
 38; 7813.8; 04-JAN-2009 08:55:41; Dark ; 31.0; 7; 19Bet Ori ; 0.10; 14000;occ; 62; 0;35803

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 16; 5043.1; 04-JAN-2009 09:50:06; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;35804
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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
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 23; 6052.1; 04-JAN-2009 10:06:55; Dark ; 46.0; 4; Alp1Cen ;-0.01; 5800;occ; 92; 0;35804
 24; 6185.7; 04-JAN-2009 10:09:09; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;35804
 25; 6294.6; 04-JAN-2009 10:10:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35804
 26; 6493.6; 04-JAN-2009 10:14:17; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;35804
 27; 6602.2; 04-JAN-2009 10:16:05; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;35804
 28; 6694.1; 04-JAN-2009 10:17:37; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;35804
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 30; 7027.7; 04-JAN-2009 10:23:11; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;35804
 31; 7110.3; 04-JAN-2009 10:24:33; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;35804
 32; 7227.1; 04-JAN-2009 10:26:30; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35804
 33; 7390.8; 04-JAN-2009 10:29:14; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;35804
 34; 7481.2; 04-JAN-2009 10:30:44; Dark ; 42.0; 179; 240mi2CMa ; 3.03; 24000;occ; 84; 0;35804
 35; 7624.4; 04-JAN-2009 10:33:07; Dark ; 53.0; 1; 9Alp CMa ;-1.44; 11000;occ; 106; 0;35804

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 4; 2031.5; 04-JAN-2009 10:40:30; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;35805
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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
 7; 2475.1; 04-JAN-2009 10:47:54; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;35805
 8; 2555.3; 04-JAN-2009 10:49:14; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;35805
 9; 2689.5; 04-JAN-2009 10:51:28; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;35805
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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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 5; 2031.2; 04-JAN-2009 12:21:06; Dark ; 51.0; 14; 58Alp Ori ; 0.87; 3000;occ; 102; 0;35806
 6; 2268.4; 04-JAN-2009 12:25:03; Bright; 36.0; 176; 23Zet Tau ; 3.02; 22000;occ; 72; 0;35806
 7; 2394.8; 04-JAN-2009 12:27:10; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;35806

8; 2474.8; 04-JAN-2009 12:28:30; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;35806
9; 2555.1; 04-JAN-2009 12:29:50; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;35806
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12; 3684.8; 04-JAN-2009 12:48:39; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;35806
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16; 4555.6; 04-JAN-2009 13:03:10; Bright; 56.0; 67; 5Alp CrB ; 2.22; 11000;occ; 112; 0;35806
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23; 5870.0; 04-JAN-2009 13:25:05; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;35806
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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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32; 7028.6; 04-JAN-2009 13:44:23; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;35806
33; 7110.7; 04-JAN-2009 13:45:45; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;35806
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35; 7391.4; 04-JAN-2009 13:50:26; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;35806
36; 7481.3; 04-JAN-2009 13:51:56; Dark ; 43.5; 179; 240mi2CMA ; 3.03; 24000;occ; 87; 0;35806

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22; 5781.3; 04-JAN-2009 15:04:12; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;35807
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27; 6297.5; 04-JAN-2009 15:12:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35807
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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
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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
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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
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23; 2414.2; 24-JAN-2009 22:02:18; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;36098
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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
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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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 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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 6; -1266.8; 24-JAN-2009 07:36:10; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;36089
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 9; -529.1; 24-JAN-2009 07:48:27; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;36089
 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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 16; 412.2; 24-JAN-2009 08:04:09; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;36090
 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
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 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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 5; 2416.4; 24-JAN-2009 08:37:33; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36090
 6; 2548.5; 24-JAN-2009 08:39:45; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;36090
 7; 2676.5; 24-JAN-2009 08:41:53; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;36090
 8; 3426.4; 24-JAN-2009 08:54:23; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36090
 9; 3638.2; 24-JAN-2009 08:57:55; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;36090
 10; 3911.6; 24-JAN-2009 09:02:28; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;36090
 11; 4085.3; 24-JAN-2009 09:05:22; Bright; 53.0; 130; 23Bet Dra ; 2.80; 5800;occ; 106; 0;36090
 12; 4472.0; 24-JAN-2009 09:11:49; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;36090
 13; 4672.0; 24-JAN-2009 09:15:09; Bright; 43.0; 127; 27Bet Her ; 2.78; 4700;occ; 86; 0;36090
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17; 5506.8; 24-JAN-2009 09:29:03; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;36090
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 19; 5841.2; 24-JAN-2009 09:34:38; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 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
 28; 6931.2; 24-JAN-2009 09:52:48; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;36090
 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
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 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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 7; 2676.8; 24-JAN-2009 10:22:29; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;36091
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 9; 3637.7; 24-JAN-2009 10:38:30; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;36091
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13;	167.7;	28-JAN-2009	05:53:36;	Dark	;	41.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	83;	0;	36146
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31;	3427.5;	28-JAN-2009	06:47:55;	Bright;	;	37.5;	49;	1Alp UMi	;	1.99;	6300;occ;	75;	0;	36146
32;	3626.1;	28-JAN-2009	06:51:14;	Bright;	;	38.0;	60;	7Bet UMi	;	2.08;	3950;occ;	76;	0;	36146
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4;	1280.5;	28-JAN-2009	21:17:32;	Dark	;	41.0;	117;	Pi Pup	;	2.71;	3800;occ;	82;	0;	36155
5;	1404.5;	28-JAN-2009	21:19:36;	Dark	;	40.5;	88;	31Eta CMa	;	2.45;	20000;occ;	81;	0;	36155
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16;	4786.2;	28-JAN-2009	22:15:58;	Bright;	;	35.5;	59;	55Alp Oph	;	2.08;	8900;occ;	71;	0;	36155
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 26; 4797.9; 31-JAN-2009 22:21:55; Bright; 26.5; 59; 55Alp Oph ; 2.08; 8900;occ; 53; 0;36198
 27; 4926.0; 31-JAN-2009 22:24:03; Bright; 26.5; 126; 60Bet Oph ; 2.77; 4250;occ; 53; 0;36198
 28; 5315.0; 31-JAN-2009 22:30:32; Dark ; 29.0; 86; 35Eta Oph ; 2.43; 10200;occ; 58; 0;36198

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 5; 19.6; 31-JAN-2009 22:42:52; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;36199
 6; 108.6; 31-JAN-2009 22:44:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36199
 7; 195.9; 31-JAN-2009 22:45:49; Dark ; 33.0; 4; Alp1Cen ; -0.01; 5800;occ; 66; 0;36199
 8; 312.7; 31-JAN-2009 22:47:46; Dark ; 36.5; 77; Eps Cen ; 2.30; 28000;occ; 73; 0;36199
 9; 471.7; 31-JAN-2009 22:50:24; Dark ; 32.5; 12; Alp1Cru ; 0.77; 30000;occ; 65; 0;36199
 10; 593.4; 31-JAN-2009 22:52:26; Dark ; 37.0; 99; Del Cen ; 2.58; 26000;occ; 74; 0;36199
 11; 709.5; 31-JAN-2009 22:54:22; Dark ; 30.0; 159; Ups Car ; 2.92; 7200;occ; 60; 0;36199
 12; 824.4; 31-JAN-2009 22:56:17; Dark ; 30.0; 71; Iot Car ; 2.25; 7700;occ; 60; 0;36199
 13; 928.8; 31-JAN-2009 22:58:02; Dark ; 30.5; 46; Del Vel ; 1.95; 10600;occ; 61; 0;36199
 14; 1080.2; 31-JAN-2009 23:00:33; Dark ; 29.5; 34; Gam2Vel ; 1.79; 23000;occ; 59; 0;36199
 15; 1205.5; 31-JAN-2009 23:02:38; Dark ; 29.5; 70; Zet Pup ; 2.25; 39000;occ; 59; 0;36199
 16; 1413.0; 31-JAN-2009 23:06:06; Dark ; 28.5; 88; 31Eta CMa ; 2.45; 20000;occ; 57; 0;36199
 17; 1992.6; 31-JAN-2009 23:15:45; Dark ; 31.0; 8; 10Alp CMI ; 0.40; 6500;occ; 62; 0;36199
 18; 2199.6; 31-JAN-2009 23:19:12; Bright; 29.5; 44; 24Gam Gem ; 1.93; 11000;occ; 59; 0;36199
 19; 2341.5; 31-JAN-2009 23:21:34; Bright; 30.0; 170; 27Eps Gem ; 3.00; 9700;occ; 60; 0;36199
 20; 2455.3; 31-JAN-2009 23:23:28; Bright; 32.0; 24; 66Alp Gem ; 1.58; 10200;occ; 64; 0;36199
 21; 3427.8; 31-JAN-2009 23:39:41; Bright; 28.0; 49; 1Alp UMi ; 1.99; 6300;occ; 56; 0;36199
 22; 3612.8; 31-JAN-2009 23:42:46; Bright; 30.0; 60; 7Bet UMi ; 2.08; 3950;occ; 60; 0;36199
 23; 3895.5; 31-JAN-2009 23:47:28; Bright; 29.0; 119; 14Eta Dra ; 2.73; 4700;occ; 58; 0;36199
 24; 4087.3; 31-JAN-2009 23:50:40; Bright; 26.0; 130; 23Bet Dra ; 2.80; 5800;occ; 52; 0;36199
 25; 4305.6; 31-JAN-2009 23:54:18; Bright; 24.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 48; 0;36199
 26; 4798.3; 01-FEB-2009 00:02:31; Bright; 26.5; 59; 55Alp Oph ; 2.08; 8900;occ; 53; 0;36199
 27; 4926.4; 01-FEB-2009 00:04:39; Bright; 26.5; 126; 60Bet Oph ; 2.77; 4250;occ; 53; 0;36199
 28; 5315.8; 01-FEB-2009 00:11:09; Dark ; 29.0; 86; 35Eta Oph ; 2.43; 10200;occ; 58; 0;36199

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 3; -1948.2; 31-JAN-2009 07:04:41; Bright; 27.0; 130; 23Bet Dra ; 2.80; 5800;occ; 54; 0;36189
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 5; -1239.8; 31-JAN-2009 07:16:30; Bright; 27.5; 59; 55Alp Oph ; 2.08; 8900;occ; 55; 0;36189
 6; -1112.8; 31-JAN-2009 07:18:37; Bright; 28.0; 126; 60Bet Oph ; 2.77; 4250;occ; 56; 0;36189
 7; -725.3; 31-JAN-2009 07:25:04; Dark ; 31.0; 86; 35Eta Oph ; 2.43; 10200;occ; 62; 0;36189
 8; -468.2; 31-JAN-2009 07:29:21; Dark ; 35.0; 16; 21Alp Sco ; 1.02; 3000;occ; 70; 0;36189
 9; -332.1; 31-JAN-2009 07:31:37; Dark ; 30.0; 40; The Sco ; 1.86; 7100;occ; 60; 0;36189
 10; -121.8; 31-JAN-2009 07:35:08; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;36189
 11; 11.4; 31-JAN-2009 07:37:21; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;36190
 12; 102.3; 31-JAN-2009 07:38:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36190
 13; 191.0; 31-JAN-2009 07:40:20; Dark ; 35.0; 4; Alp1Cen ; -0.01; 5800;occ; 70; 0;36190
 14; 306.0; 31-JAN-2009 07:42:15; Dark ; 38.5; 77; Eps Cen ; 2.30; 28000;occ; 77; 0;36190
 15; 466.9; 31-JAN-2009 07:44:56; Dark ; 34.5; 12; Alp1Cru ; 0.77; 30000;occ; 69; 0;36190
 16; 586.3; 31-JAN-2009 07:46:56; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;36190
 17; 706.7; 31-JAN-2009 07:48:56; Dark ; 32.0; 159; Ups Car ; 2.92; 7200;occ; 64; 0;36190
 18; 821.5; 31-JAN-2009 07:50:51; Dark ; 32.0; 71; Iot Car ; 2.25; 7700;occ; 64; 0;36190
 19; 926.5; 31-JAN-2009 07:52:36; Dark ; 32.0; 46; Del Vel ; 1.95; 10600;occ; 64; 0;36190
 20; 1079.1; 31-JAN-2009 07:55:08; Dark ; 30.5; 34; Gam2Vel ; 1.79; 23000;occ; 61; 0;36190
 21; 1204.1; 31-JAN-2009 07:57:13; Dark ; 30.5; 70; Zet Pup ; 2.25; 39000;occ; 61; 0;36190
 22; 1411.6; 31-JAN-2009 08:00:41; Dark ; 29.5; 88; 31Eta CMa ; 2.45; 20000;occ; 59; 0;36190

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3; 2340.6; 31-JAN-2009 08:16:10; Bright; 32.0; 170; 27Eps Gem ; 3.00; 9700;occ; 64; 0;36190
4; 2456.6; 31-JAN-2009 08:18:06; Bright; 34.0; 24; 66Alp Gem ; 1.58; 10200;occ; 68; 0;36190
5; 3427.8; 31-JAN-2009 08:34:17; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;36190
6; 3614.8; 31-JAN-2009 08:37:24; Bright; 32.0; 60; 7Bet UMi ; 2.08; 3950;occ; 64; 0;36190
7; 3897.8; 31-JAN-2009 08:42:07; Bright; 30.5; 119; 14Eta Dra ; 2.73; 4700;occ; 61; 0;36190
8; 4087.4; 31-JAN-2009 08:45:17; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;36190
9; 4304.3; 31-JAN-2009 08:48:54; Bright; 25.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 51; 0;36190
10; 4795.7; 31-JAN-2009 08:57:05; Bright; 28.5; 59; 55Alp Oph ; 2.08; 8900;occ; 57; 0;36190
11; 4923.4; 31-JAN-2009 08:59:13; Bright; 28.5; 126; 60Bet Oph ; 2.77; 4250;occ; 57; 0;36190
12; 5311.0; 31-JAN-2009 09:05:40; Dark ; 31.5; 86; 35Eta Oph ; 2.43; 10200;occ; 63; 0;36190
13; 5568.8; 31-JAN-2009 09:09:58; Dark ; 34.5; 16; 21Alp Sco ; 1.02; 3000;occ; 69; 0;36190
14; 5704.2; 31-JAN-2009 09:12:14; Dark ; 30.0; 40; The Sco ; 1.86; 7100;occ; 60; 0;36190
15; 5915.0; 31-JAN-2009 09:15:44; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;36190
16; 6048.1; 31-JAN-2009 09:17:57; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;36190
17; 6138.9; 31-JAN-2009 09:19:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36190
18; 6227.5; 31-JAN-2009 09:20:57; Dark ; 35.0; 4; Alp1Cen ; -0.01; 5800;occ; 70; 0;36190
19; 6342.8; 31-JAN-2009 09:22:52; Dark ; 38.5; 77; Eps Cen ; 2.30; 28000;occ; 77; 0;36190
20; 6503.3; 31-JAN-2009 09:25:33; Dark ; 34.5; 12; Alp1Cru ; 0.77; 30000;occ; 69; 0;36190
21; 6623.0; 31-JAN-2009 09:27:32; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;36190
22; 6742.9; 31-JAN-2009 09:29:32; Dark ; 32.0; 159; Ups Car ; 2.92; 7200;occ; 64; 0;36190
23; 6858.2; 31-JAN-2009 09:31:28; Dark ; 31.5; 71; Iot Car ; 2.25; 7700;occ; 63; 0;36190
24; 6963.7; 31-JAN-2009 09:33:13; Dark ; 30.5; 46; Del Vel ; 1.95; 10600;occ; 61; 0;36190
25; 7115.0; 31-JAN-2009 09:35:44; Dark ; 30.5; 34; Gam2Vel ; 1.79; 23000;occ; 61; 0;36190
26; 7239.9; 31-JAN-2009 09:37:49; Dark ; 31.0; 70; Zet Pup ; 2.25; 39000;occ; 62; 0;36190
27; 7447.5; 31-JAN-2009 09:41:17; Dark ; 29.5; 88; 31Eta CMa ; 2.45; 20000;occ; 59; 0;36190

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2; 2198.4; 31-JAN-2009 09:54:24; Bright; 31.5; 44; 24Gam Gem ; 1.93; 11000;occ; 63; 0;36191
3; 2340.6; 31-JAN-2009 09:56:46; Bright; 32.0; 170; 27Eps Gem ; 3.00; 9700;occ; 64; 0;36191
4; 2456.5; 31-JAN-2009 09:58:42; Bright; 34.0; 24; 66Alp Gem ; 1.58; 10200;occ; 68; 0;36191
5; 3427.5; 31-JAN-2009 10:14:53; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;36191
6; 3614.9; 31-JAN-2009 10:18:00; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;36191
7; 3897.4; 31-JAN-2009 10:22:43; Bright; 30.5; 119; 14Eta Dra ; 2.73; 4700;occ; 61; 0;36191
8; 4086.8; 31-JAN-2009 10:25:52; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;36191
9; 4304.4; 31-JAN-2009 10:29:30; Bright; 25.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 51; 0;36191
10; 4795.8; 31-JAN-2009 10:37:41; Bright; 28.0; 59; 55Alp Oph ; 2.08; 8900;occ; 56; 0;36191
11; 4923.9; 31-JAN-2009 10:39:49; Bright; 28.0; 126; 60Bet Oph ; 2.77; 4250;occ; 56; 0;36191
12; 5311.4; 31-JAN-2009 10:46:17; Dark ; 31.0; 86; 35Eta Oph ; 2.43; 10200;occ; 62; 0;36191
13; 5569.0; 31-JAN-2009 10:50:34; Dark ; 35.0; 16; 21Alp Sco ; 1.02; 3000;occ; 70; 0;36191
14; 5704.4; 31-JAN-2009 10:52:50; Dark ; 29.5; 40; The Sco ; 1.86; 7100;occ; 59; 0;36191
15; 5916.3; 31-JAN-2009 10:56:22; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;36191
16; 6049.2; 31-JAN-2009 10:58:35; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;36191
17; 6139.6; 31-JAN-2009 11:00:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36191
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19; 6343.5; 31-JAN-2009 11:03:29; Dark ; 37.5; 77; Eps Cen ; 2.30; 28000;occ; 75; 0;36191
20; 6504.0; 31-JAN-2009 11:06:09; Dark ; 34.0; 12; Alp1Cru ; 0.77; 30000;occ; 68; 0;36191
21; 6623.8; 31-JAN-2009 11:08:09; Dark ; 39.0; 99; Del Cen ; 2.58; 26000;occ; 78; 0;36191
22; 6742.9; 31-JAN-2009 11:10:08; Dark ; 31.5; 159; Ups Car ; 2.92; 7200;occ; 63; 0;36191
23; 6858.1; 31-JAN-2009 11:12:03; Dark ; 31.5; 71; Iot Car ; 2.25; 7700;occ; 63; 0;36191
24; 6963.6; 31-JAN-2009 11:13:49; Dark ; 30.5; 46; Del Vel ; 1.95; 10600;occ; 61; 0;36191
25; 7114.9; 31-JAN-2009 11:16:20; Dark ; 30.5; 34; Gam2Vel ; 1.79; 23000;occ; 61; 0;36191
26; 7239.7; 31-JAN-2009 11:18:25; Dark ; 31.0; 70; Zet Pup ; 2.25; 39000;occ; 62; 0;36191
27; 7447.2; 31-JAN-2009 11:21:52; Dark ; 29.5; 88; 31Eta CMa ; 2.45; 20000;occ; 59; 0;36191

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3; 2341.0; 31-JAN-2009 11:37:22; Bright; 31.0; 170; 27Eps Gem ; 3.00; 9700;occ; 62; 0;36192
4; 2456.5; 31-JAN-2009 11:39:18; Bright; 33.5; 24; 66Alp Gem ; 1.58; 10200;occ; 67; 0;36192
5; 3427.6; 31-JAN-2009 11:55:29; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;36192
6; 3614.5; 31-JAN-2009 11:58:36; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;36192
7; 3897.3; 31-JAN-2009 12:03:18; Bright; 30.0; 119; 14Eta Dra ; 2.73; 4700;occ; 60; 0;36192
8; 4087.1; 31-JAN-2009 12:06:28; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;36192
9; 4304.7; 31-JAN-2009 12:10:06; Bright; 25.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 50; 0;36192
10; 4796.6; 31-JAN-2009 12:18:18; Bright; 27.5; 59; 55Alp Oph ; 2.08; 8900;occ; 55; 0;36192
11; 4924.8; 31-JAN-2009 12:20:26; Bright; 27.0; 126; 60Bet Oph ; 2.77; 4250;occ; 54; 0;36192
12; 5311.8; 31-JAN-2009 12:26:53; Dark ; 31.0; 86; 35Eta Oph ; 2.43; 10200;occ; 62; 0;36192
13; 5569.7; 31-JAN-2009 12:31:11; Dark ; 34.5; 16; 21Alp Sco ; 1.02; 3000;occ; 69; 0;36192
14; 5704.5; 31-JAN-2009 12:33:26; Dark ; 29.5; 40; The Sco ; 1.86; 7100;occ; 59; 0;36192

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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
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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