

GOMOS Daily Report 04-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	06JAN2009 05:31:52
Data source version	GOMOS/5.00
Start time of products	04JAN2009 00:00:13
Stop time of products	04JAN2009 01:16:52
Store outputs in DB	Yes
Nb of level 1b prods	25
Nb of prods with errors	0

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

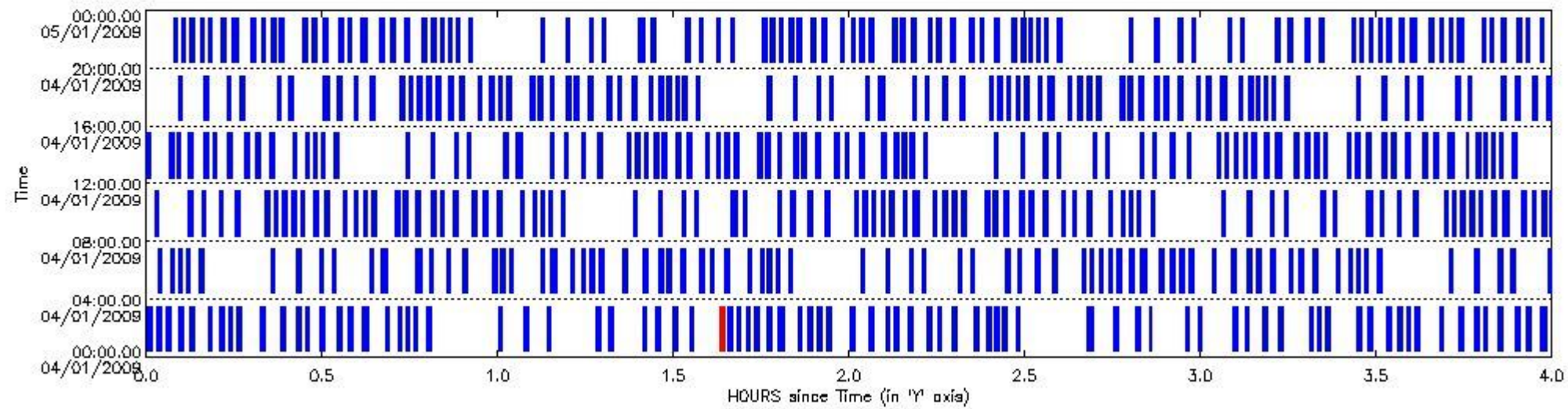
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

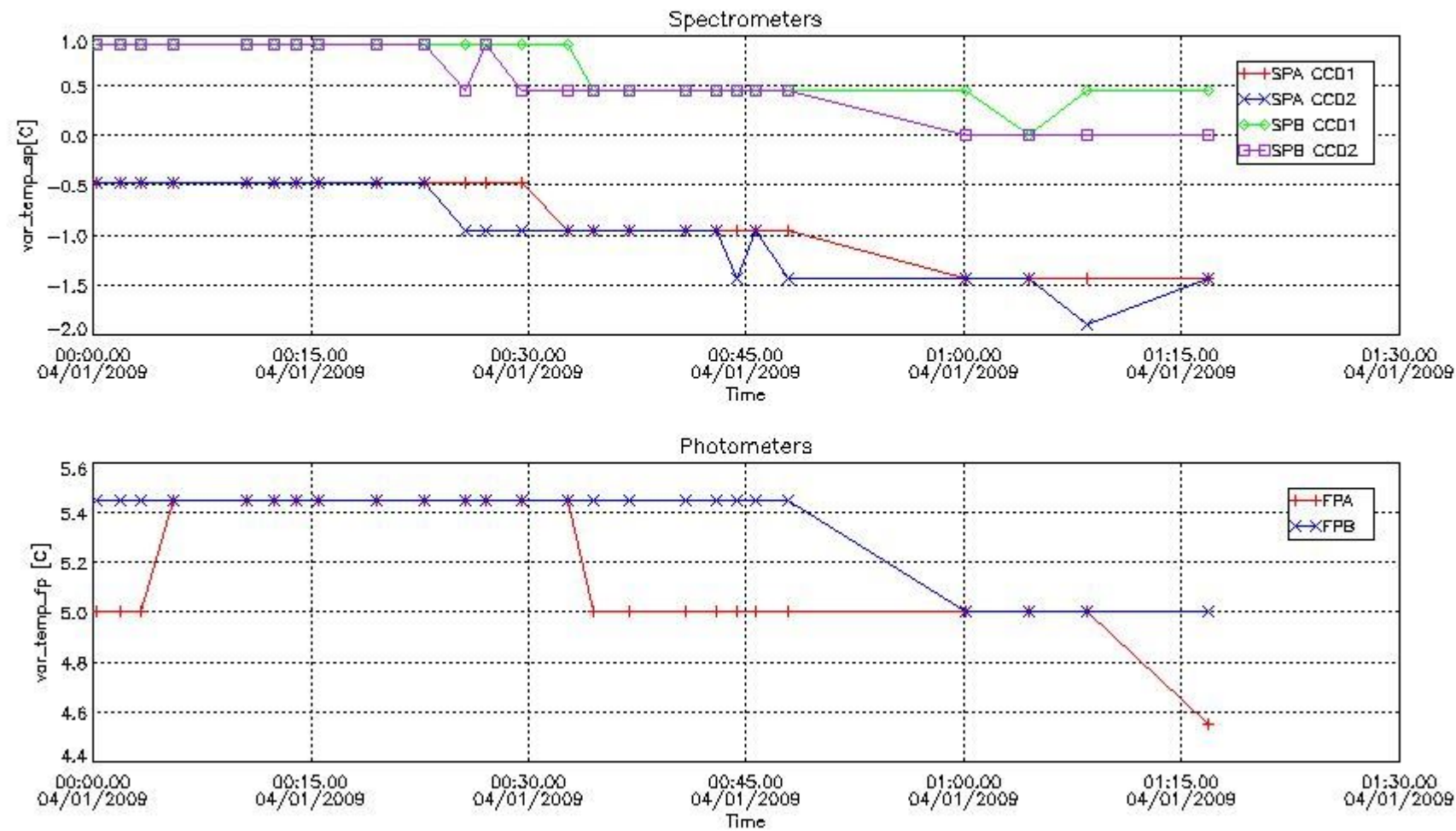
UTC start time	Star name	Star ID	Orbit
04-JAN-2009 01:37:57	GamLup	131	35799

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_1PNPDE20090104_000013_000000422075_00173_35798_2551.N1	04-JAN-2009 00:00:13	Dark	42.000	78	Alp Lup	2.3040	28000.	84	35798	No
2	GOM_TRA_1PNPDE20090104_000150_000000432075_00173_35798_2552.N1	04-JAN-2009 00:01:50	Dark	42.500	95	Zet Cen	2.5450	26000.	85	35798	No
3	GOM_TRA_1PNPDE20090104_000318_000000532075_00174_35799_2553.N1	04-JAN-2009 00:03:18	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	35799	No
4	GOM_TRA_1PNPDE20090104_000528_000000442075_00174_35799_4358.N1	04-JAN-2009 00:05:28	Dark	43.500	64	Gam Cen	2.2000	10600.	87	35799	No
5	GOM_TRA_1PNPDE20090104_001038_000000392075_00174_35799_2555.N1	04-JAN-2009 00:10:38	Dark	38.500	124	The Car	2.7640	30000.	77	35799	No
6	GOM_TRA_1PNPDE20090104_001227_000000442075_00174_35799_2556.N1	04-JAN-2009 00:12:27	Dark	43.500	29	Bet Car	1.6720	10200.	87	35799	No
7	GOM_TRA_1PNPDE20090104_001358_000000402075_00174_35799_2557.N1	04-JAN-2009 00:13:58	Dark	40.000	71	lot Car	2.2460	7700.0	80	35799	No
8	GOM_TRA_1PNPDE20090104_001529_000000472075_00174_35799_2558.N1	04-JAN-2009 00:15:29	Dark	47.000	41	Eps Car	1.8600	4100.0	94	35799	No
9	GOM_TRA_1PNPDE20090104_001933_000000452075_00174_35799_2559.N1	04-JAN-2009 00:19:33	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	35799	No
10	GOM_TRA_1PNPDE20090104_002252_000000482075_00174_35799_2560.N1	04-JAN-2009 00:22:52	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	35799	No

11	GOM_TRA_1PNPDE20090104_002536_000000462075_00174_35799_4365.N1	04-JAN-2009 00:25:36	Straylight	45.500	23	21Eps CMa	1.5020	26000.	91	35799	No
12	GOM_TRA_1PNPDE20090104_002707_000000432075_00174_35799_2562.N1	04-JAN-2009 00:27:07	Straylight	42.500	179	24Omi2CMa	3.0320	24000.	85	35799	No
13	GOM_TRA_1PNPDE20090104_002930_000000492075_00174_35799_2563.N1	04-JAN-2009 00:29:30	Straylight	48.500	1	9Alp CMa	-1.4400	11000.	97	35799	No
14	GOM_TRA_1PNPDE20090104_003240_000000442075_00174_35799_2564.N1	04-JAN-2009 00:32:40	Straylight	44.000	7	19Bet Ori	0.10000	14000.	88	35799	No
15	GOM_TRA_1PNPDE20090104_003428_000000422075_00174_35799_2565.N1	04-JAN-2009 00:34:28	Straylight	42.000	30	46Eps Ori	1.6940	30000.	84	35799	No
16	GOM_TRA_1PNPDE20090104_003654_000000542075_00174_35799_2566.N1	04-JAN-2009 00:36:54	Twilight_stray	54.000	14	58Alp Ori	0.87000	3000.0	108	35799	No
17	GOM_TRA_1PNPDE20090104_004052_000000382075_00174_35799_4371.N1	04-JAN-2009 00:40:52	Bright	37.500	176	23Zet Tau	3.0200	22000.	75	35799	No
18	GOM_TRA_1PNPDE20090104_004258_000000382075_00174_35799_2568.N1	04-JAN-2009 00:42:58	Bright	37.500	28	12Bet Tau	1.6500	15200.	75	35799	No
19	GOM_TRA_1PNPDE20090104_004418_000000372075_00174_35799_2569.N1	04-JAN-2009 00:44:18	Bright	37.000	114	3Iot Aur	2.6930	4600.0	74	35799	No
20	GOM_TRA_1PNPDE20090104_004541_000000382075_00174_35799_2570.N1	04-JAN-2009 00:45:41	Bright	37.500	107	37The Aur	2.6490	11000.	75	35799	No
21	GOM_TRA_1PNPDE20090104_004753_000000522075_00174_35799_2571.N1	04-JAN-2009 00:47:53	Bright	52.000	6	13Alp Aur	0.080000	3400.0	104	35799	No
22	GOM_TRA_1PNPDE20090104_010007_000000372075_00174_35799_4376.N1	04-JAN-2009 01:00:07	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	35799	No
23	GOM_TRA_1PNPDE20090104_010429_000000392075_00174_35799_2573.N1	04-JAN-2009 01:04:29	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	35799	No
24	GOM_TRA_1PNPDE20090104_010827_000000392075_00174_35799_2574.N1	04-JAN-2009 01:08:27	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	35799	No
25	GOM_TRA_1PNPDE20090104_011652_000000352075_00174_35799_2575.N1	04-JAN-2009 01:16:52	Bright	34.500	133	40Zet Her	2.8070	6000.0	69	35799	No

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



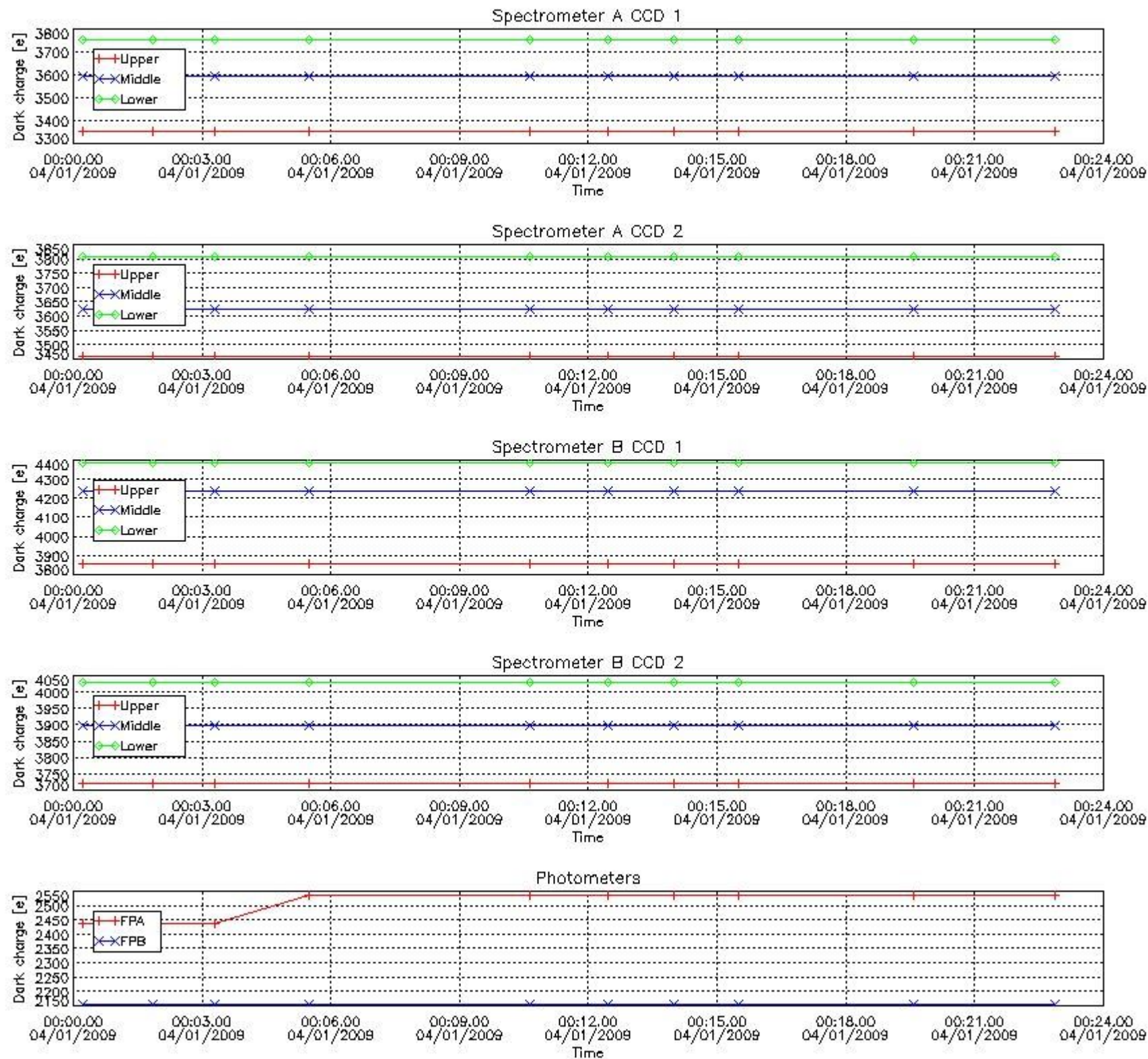
4. Overview of dark signal processing per product

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

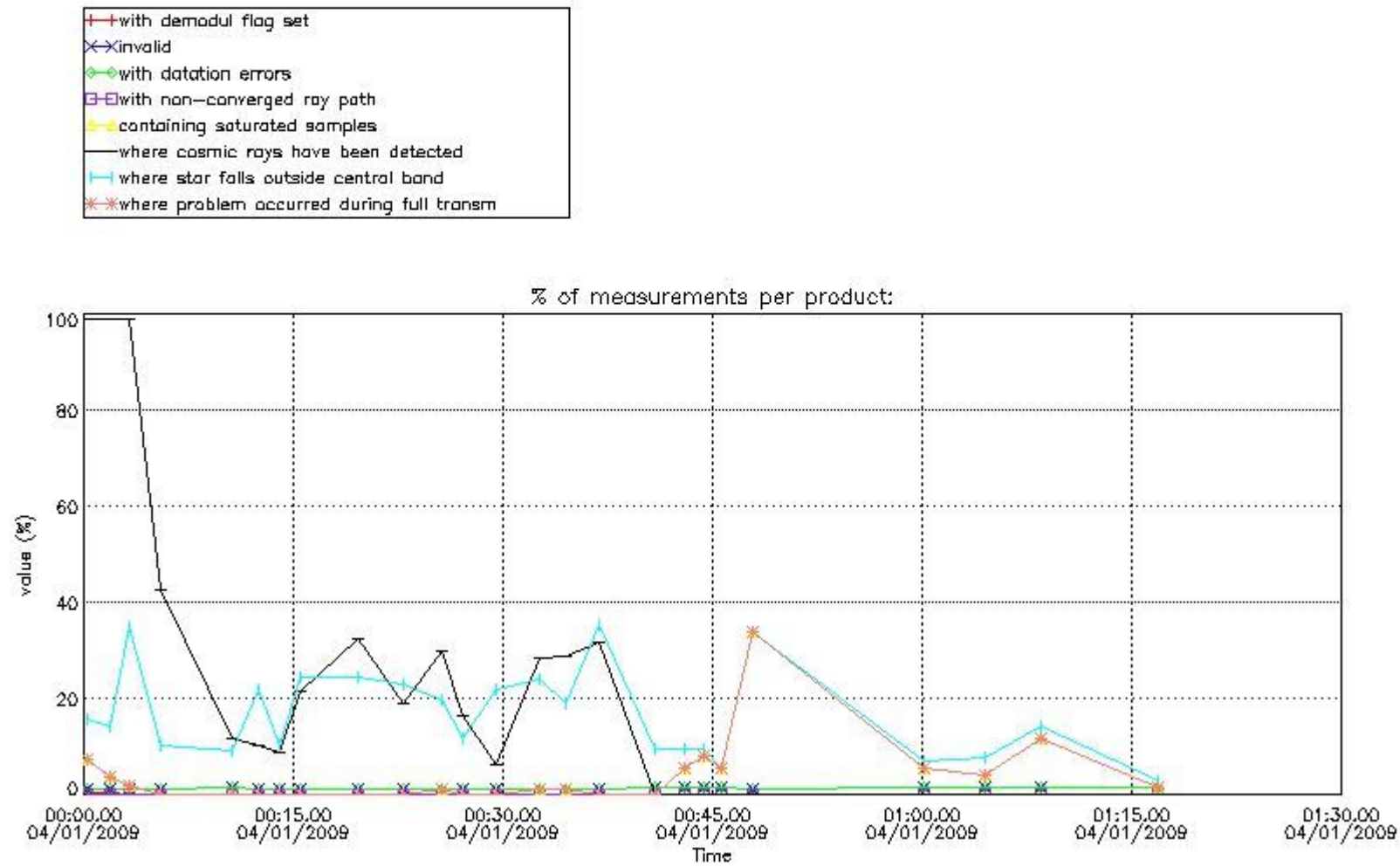
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors

(error flag in the MPH set to "0") are used.

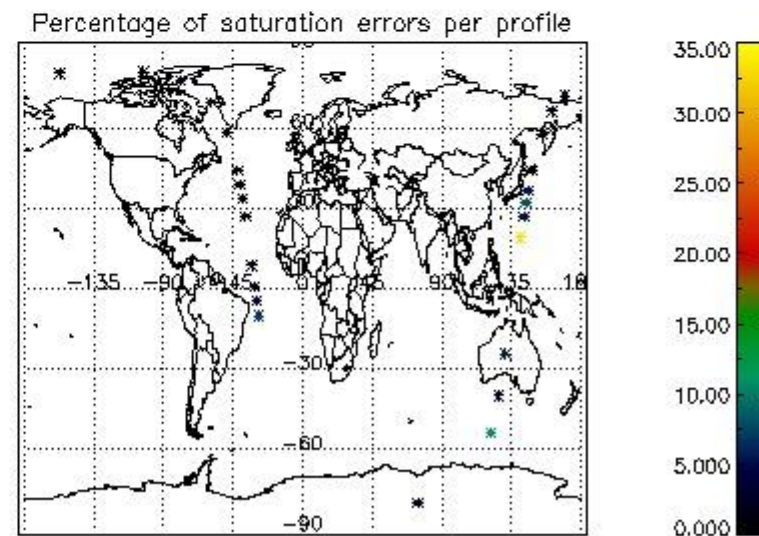
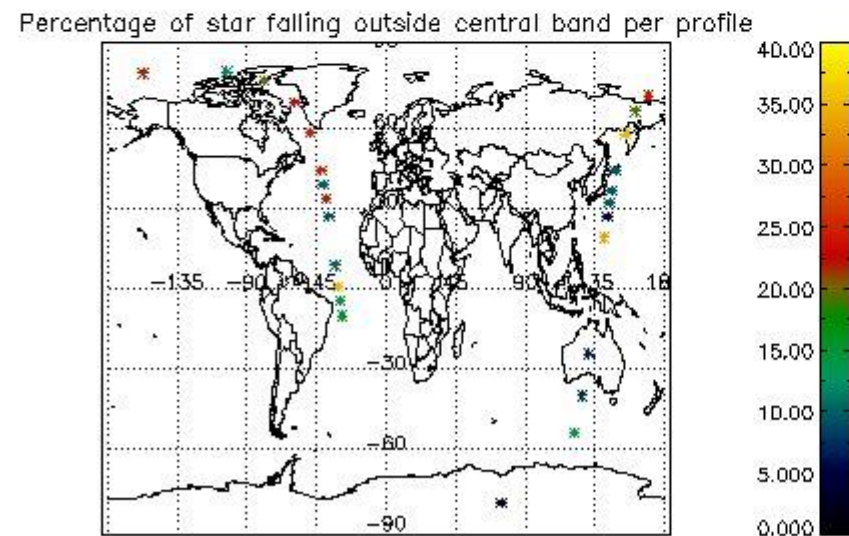
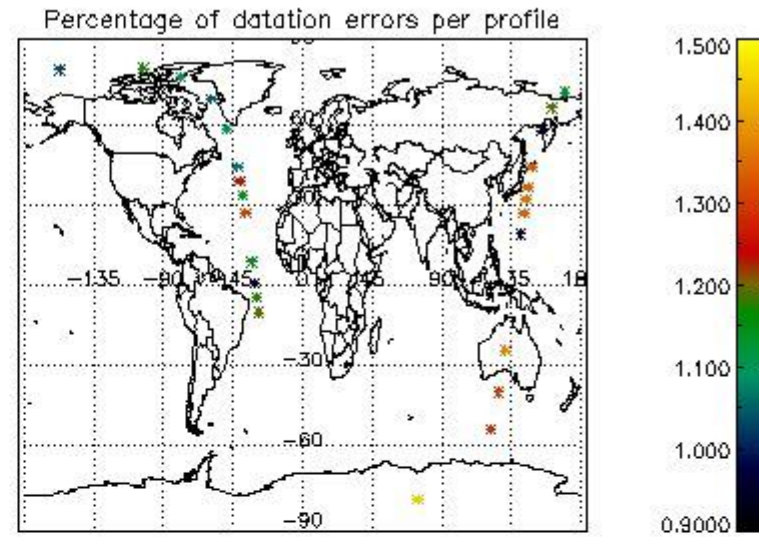
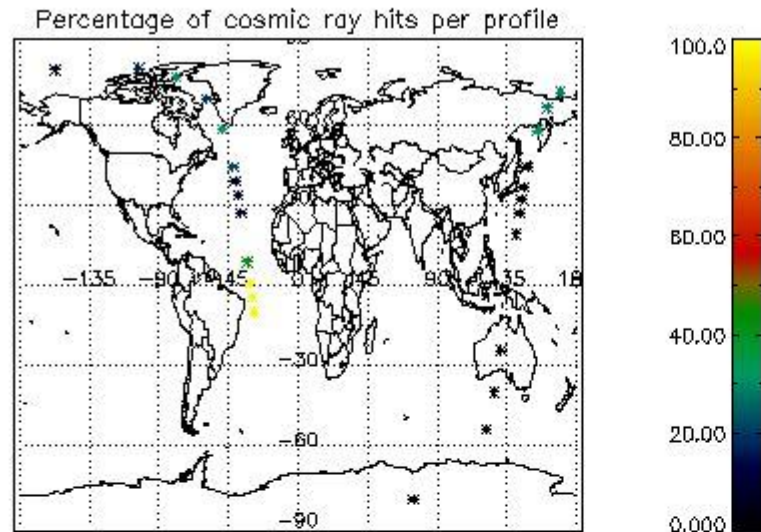
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.0000 %
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)



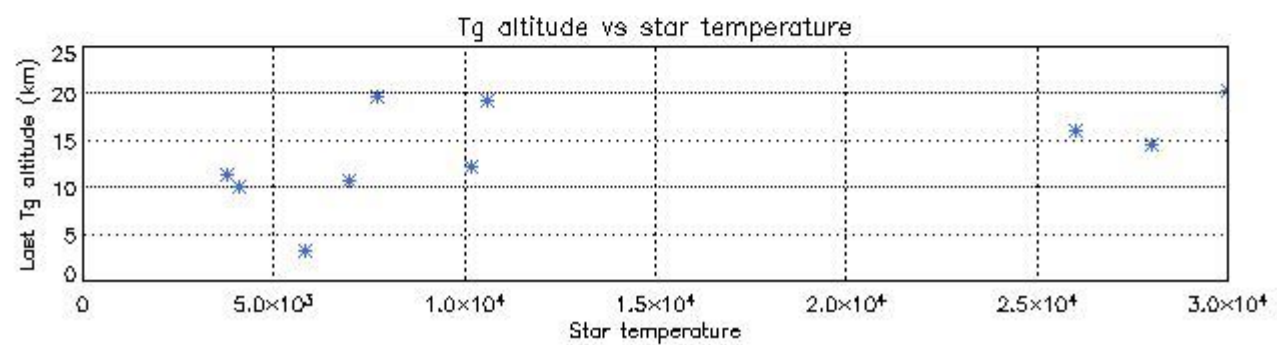
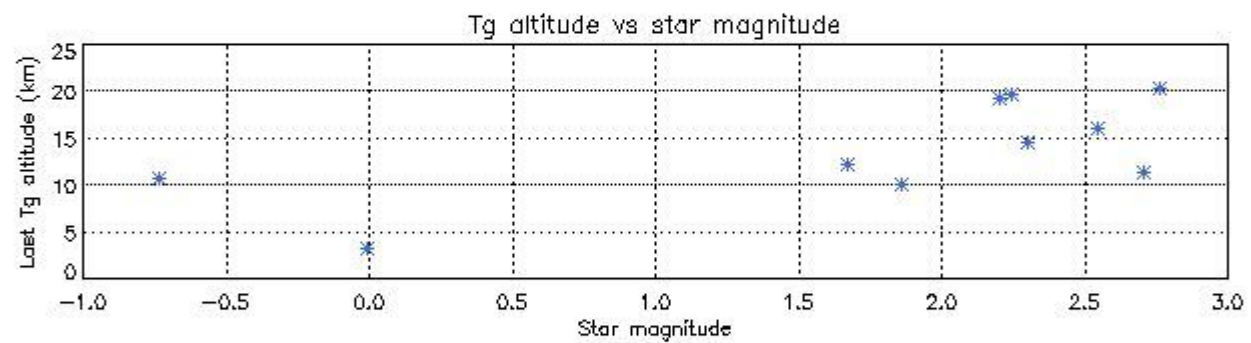
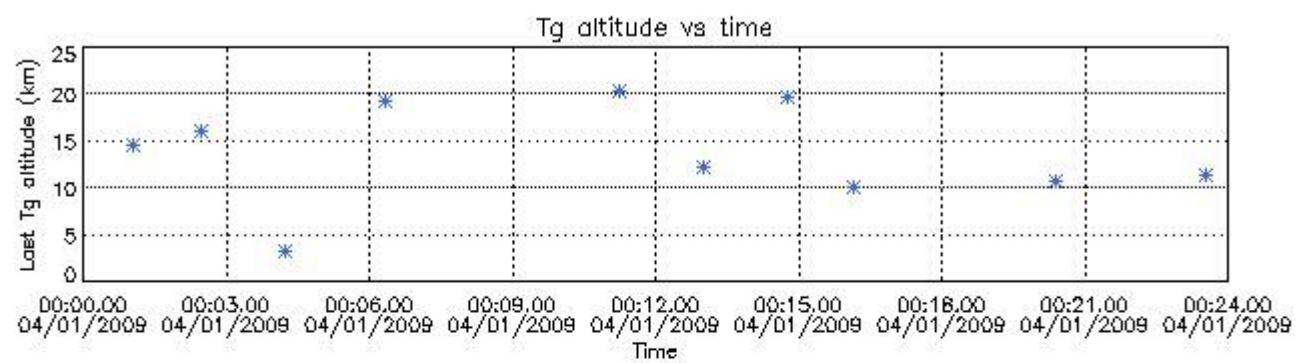
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.734	17.525	NaN
St. deviation:	5.3389	5.2671	NaN
Maximum:	20.245	23.742	NaN
Minimum:	3.1382	4.7303	NaN
Number of data:	10.000	9.0000	NaN

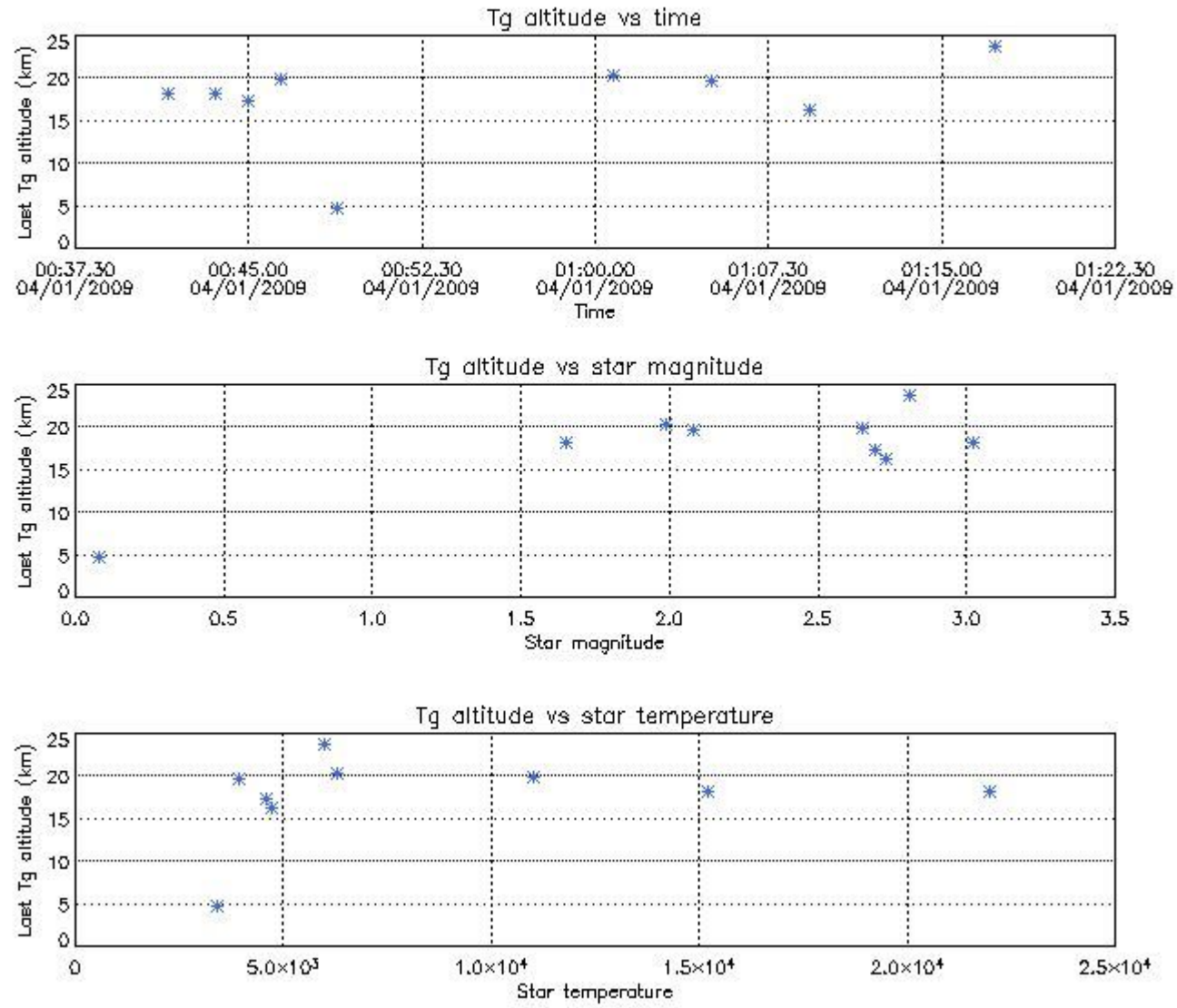
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

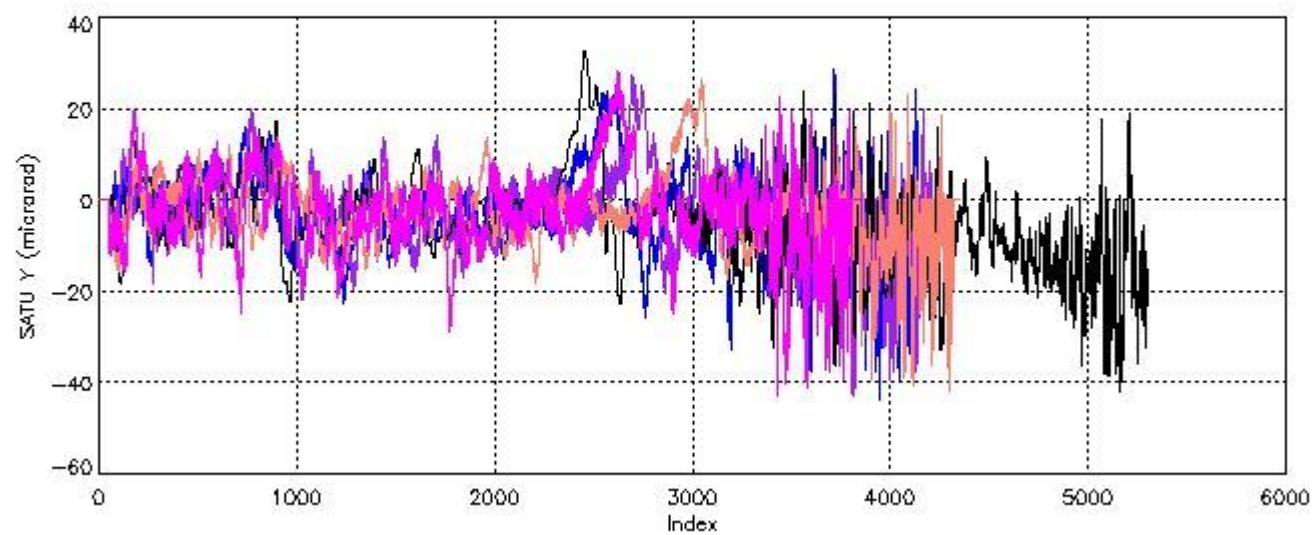
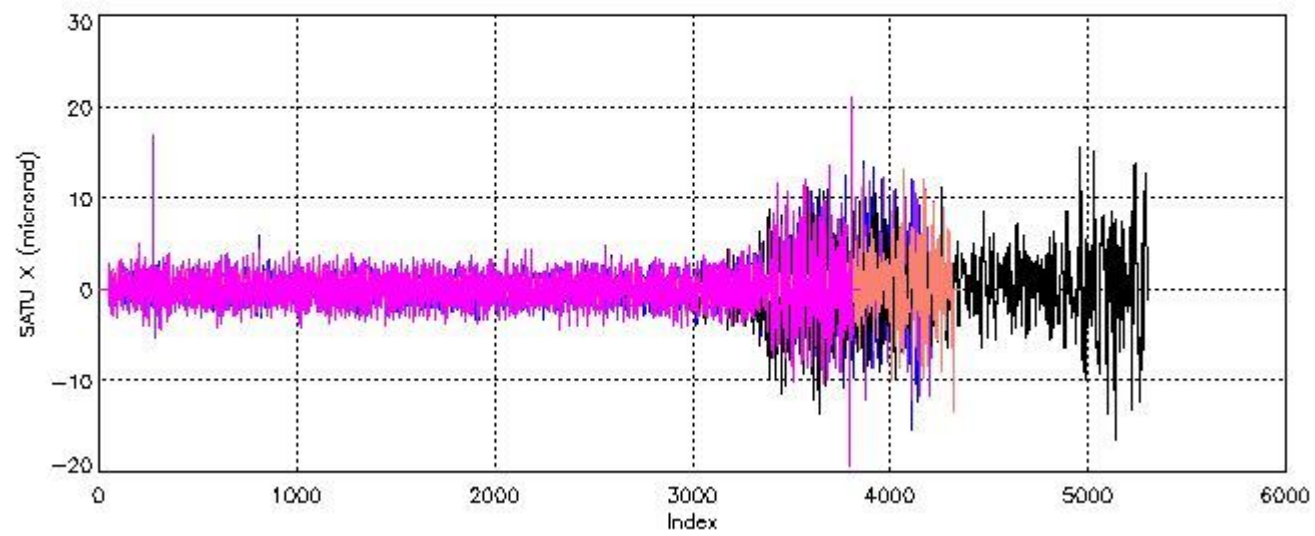


7. Star Acquisition and Tracking Unit (SATU)

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:	0.14858	-0.0019931	0.062204	-1.0612
St. deviation:	0.69128	6.3545	0.76281	5.8936
Maximum:	16.800	19.700	4.8000	20.300
Minimum:	-5.2000	-31.100	-4.8000	-24.200

Number of data:	9150.0	9150.0	7400.0	7400.0
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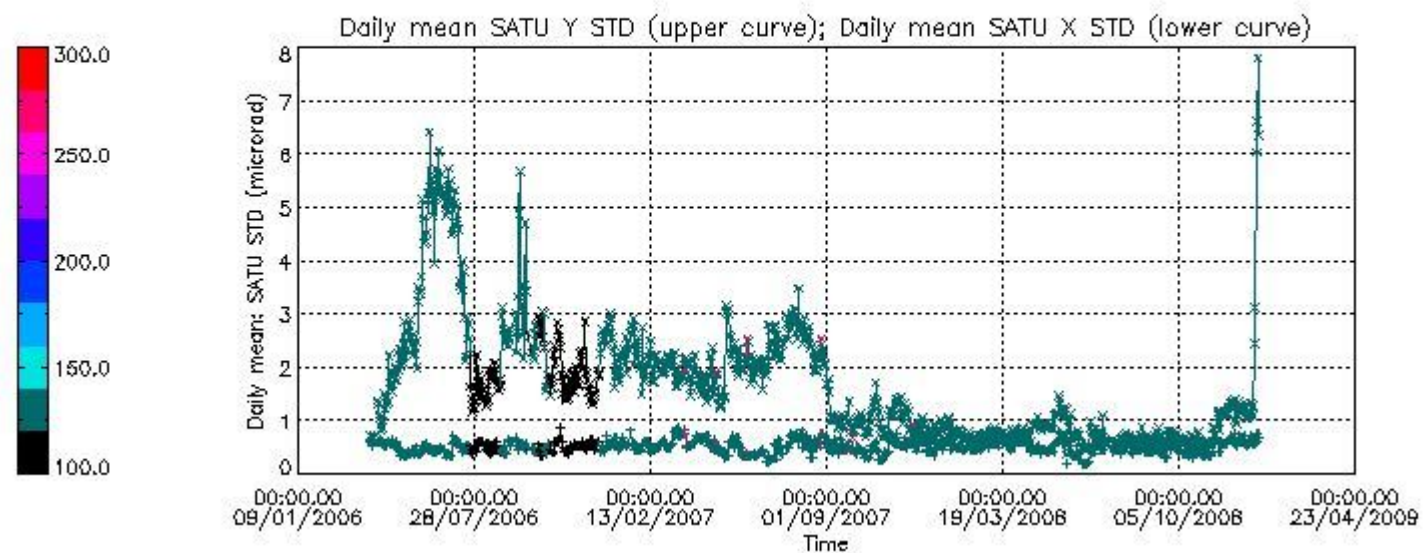
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

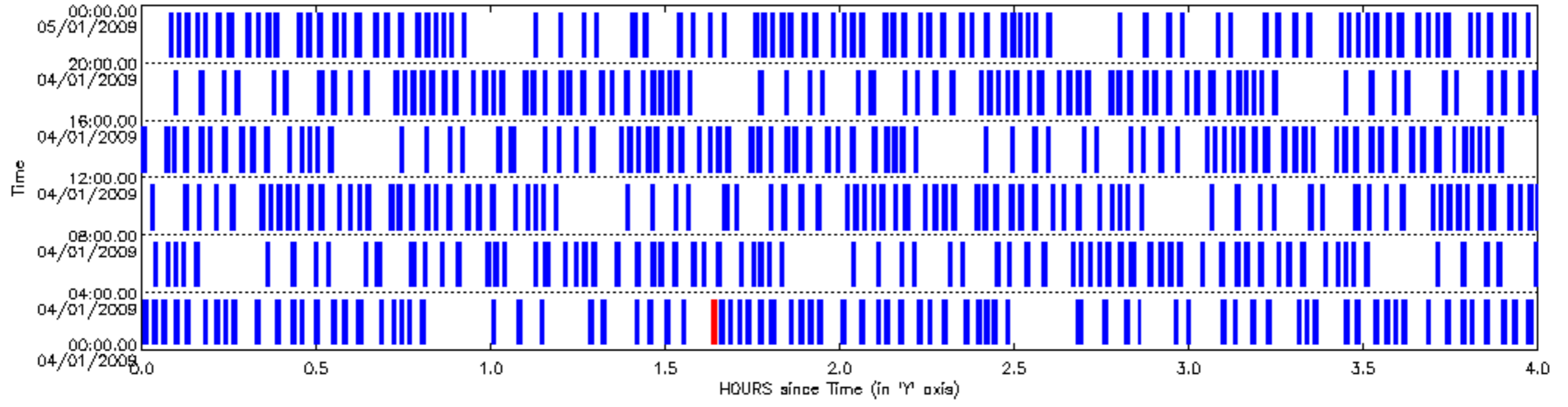
Lower curve: STD of SATU X axis

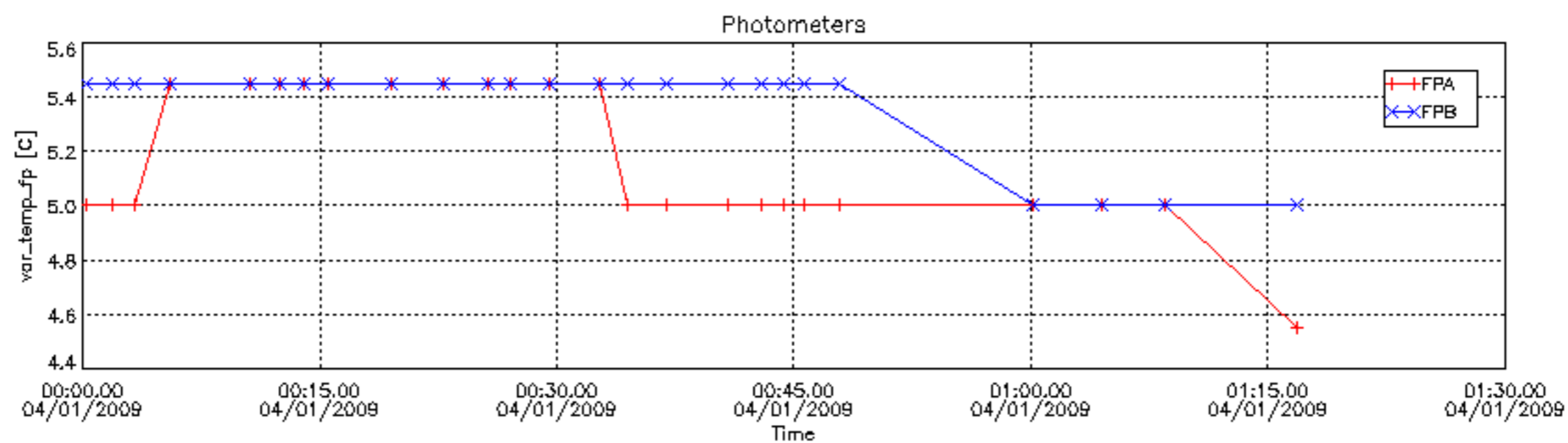
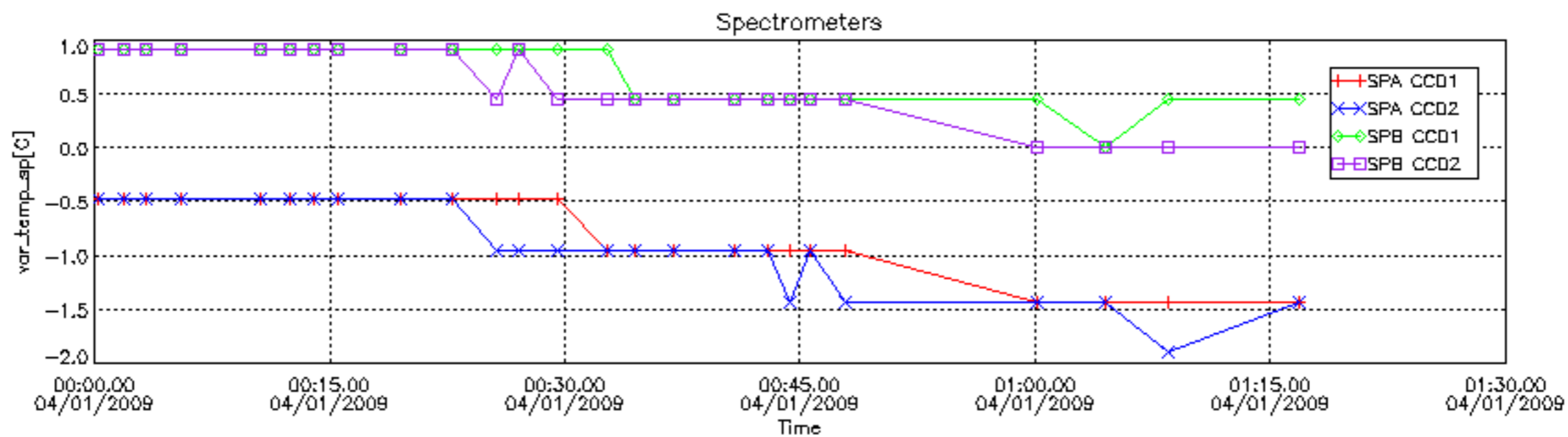


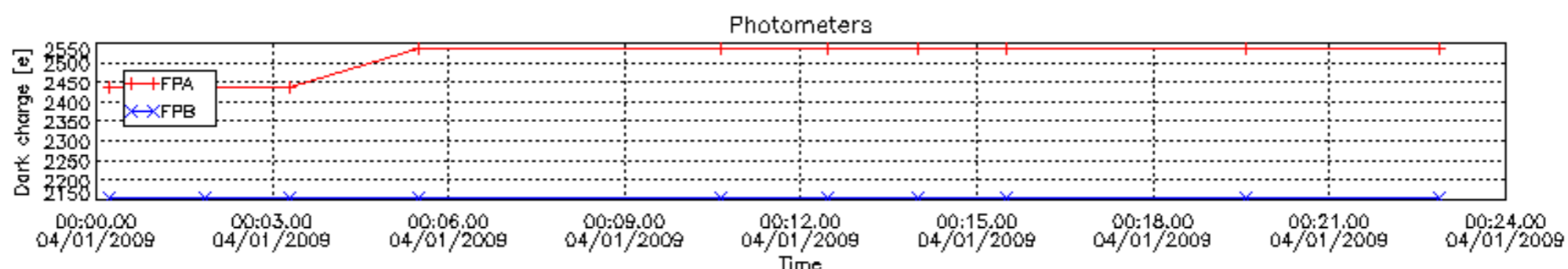
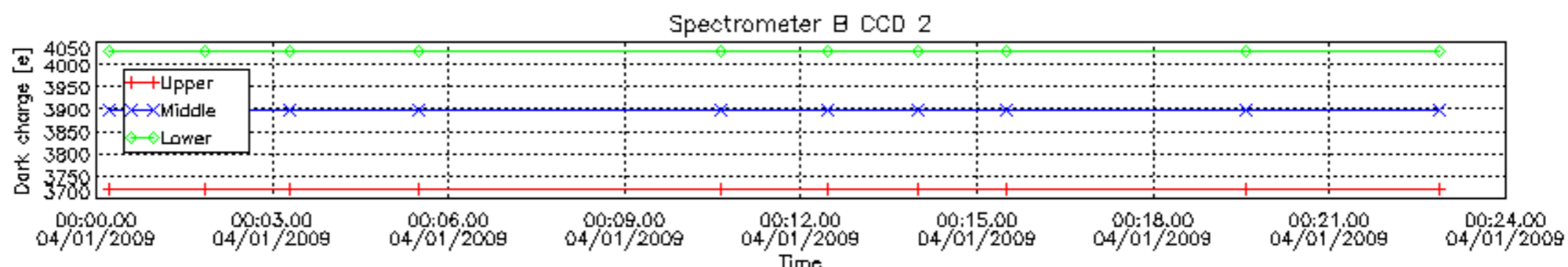
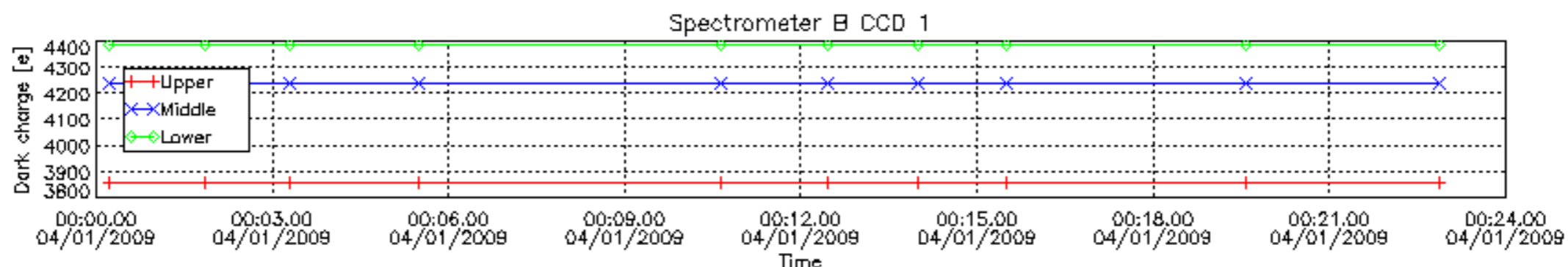
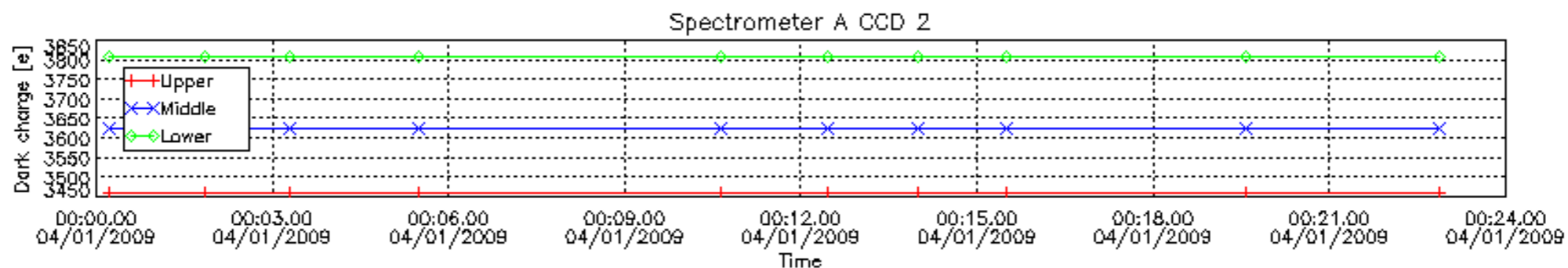
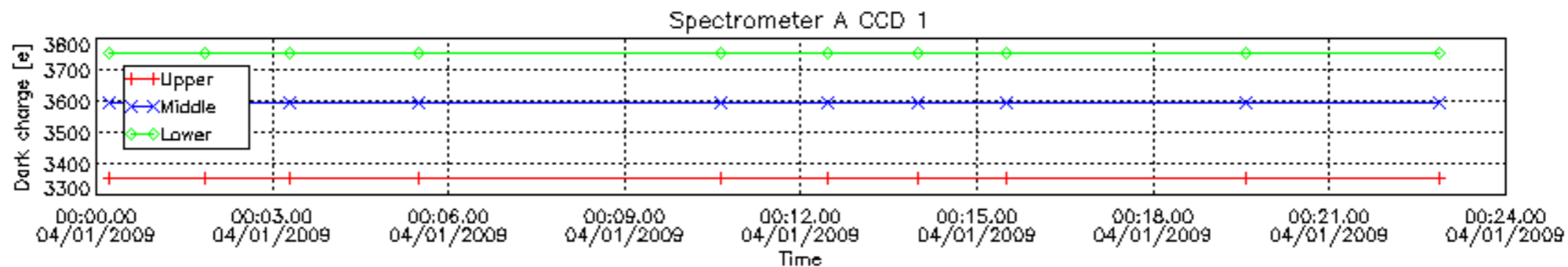
8. Auxiliary Data Files used for the production reported in section 2.4

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.

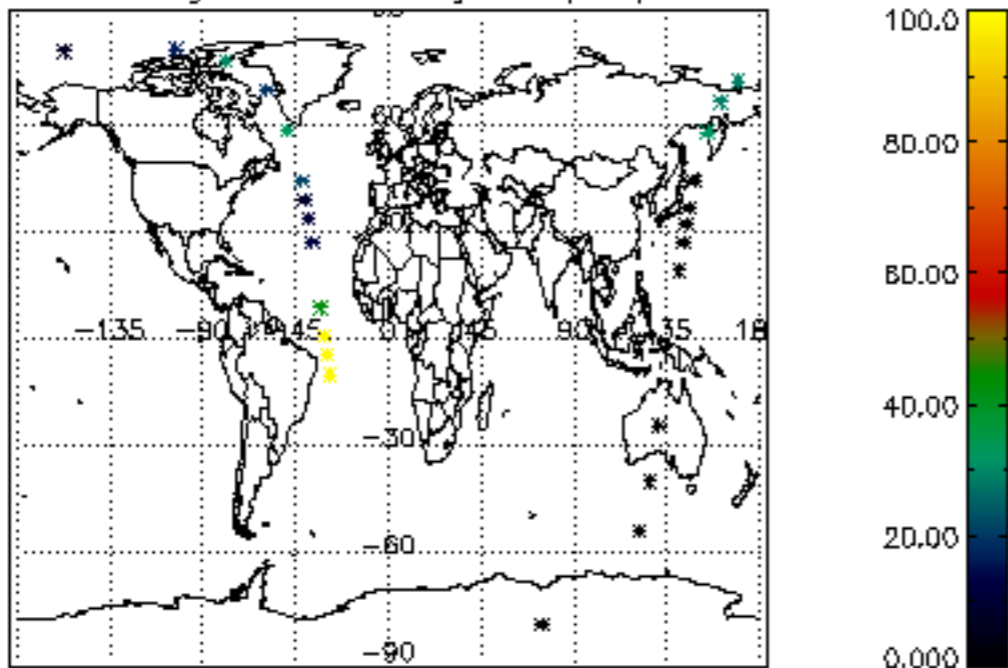
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	04-JAN-2009 00:00:13
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20081229_162214_20081227_000000_20100101_000000	1	04-JAN-2009 00:00:13
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	04-JAN-2009 00:00:13
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-JAN-2009 00:00:13
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	04-JAN-2009 00:00:13
ECMWF_FILE	AUX_ECF_AXNECM20090103_064110_20090103_210000_20090104_090000	1	04-JAN-2009 00:00:13
OPTIONAL_ECMWF_FILE	MISSING	1	04-JAN-2009 00:00:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090103_220742_000057382075_00172_35797_7091.N1	1	04-JAN-2009 00:00:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090103_234839_000057382075_00173_35798_7092.N1	4	04-JAN-2009 00:05:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090103_220742_000057382075_00172_35797_7091.N1	5	04-JAN-2009 00:10:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090103_234839_000057382075_00173_35798_7092.N1	11	04-JAN-2009 00:25:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090103_220742_000057382075_00172_35797_7091.N1	12	04-JAN-2009 00:27:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090103_234839_000057382075_00173_35798_7092.N1	17	04-JAN-2009 00:40:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090103_220742_000057382075_00172_35797_7091.N1	18	04-JAN-2009 00:42:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090103_234839_000057382075_00173_35798_7092.N1	22	04-JAN-2009 01:00:07



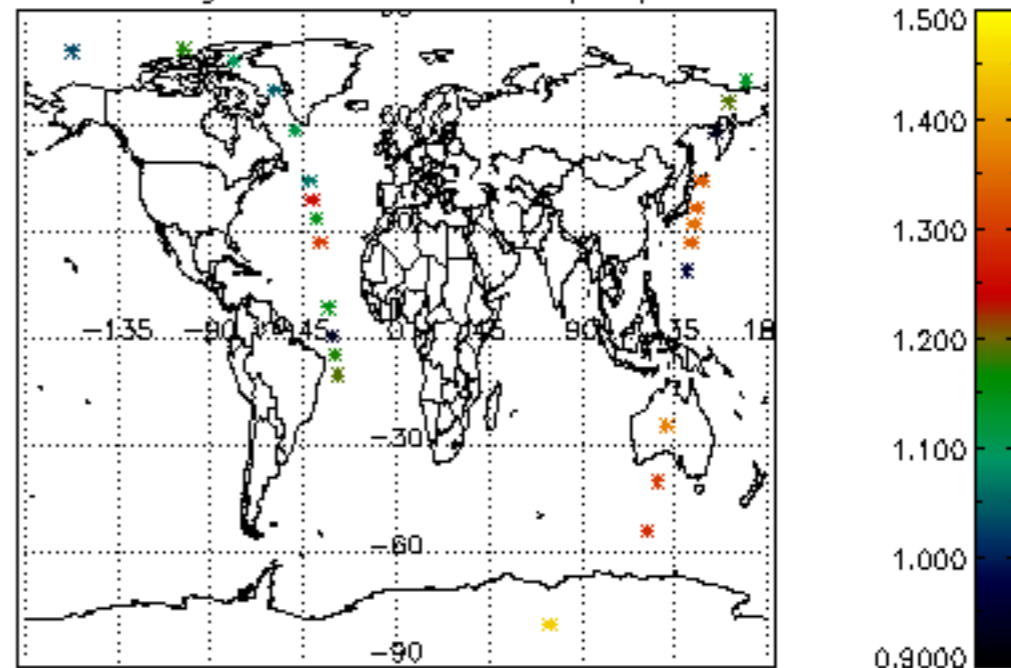




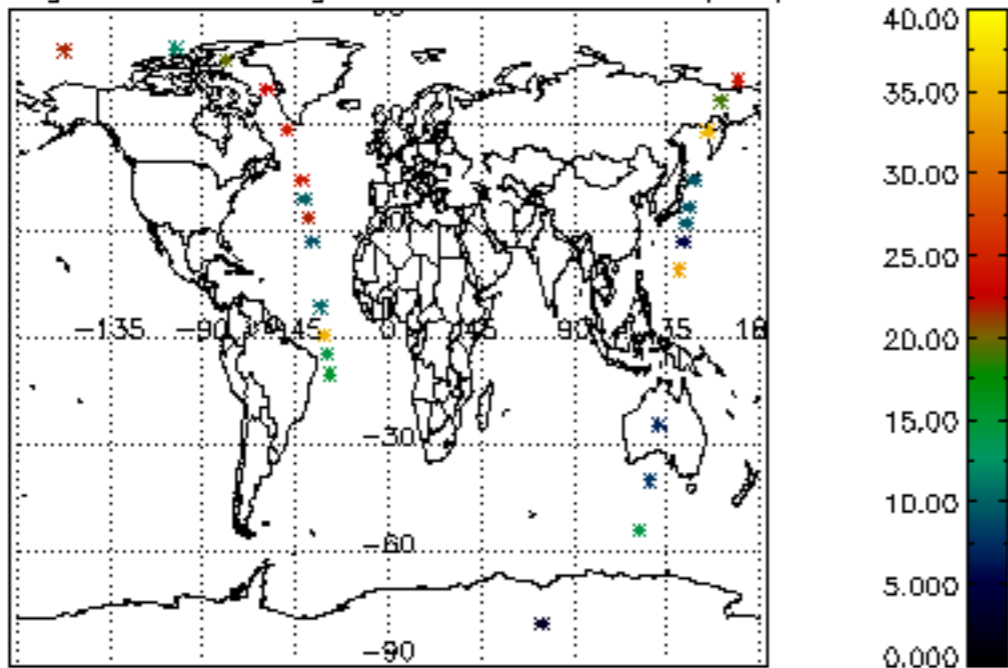
Percentage of cosmic ray hits per profile



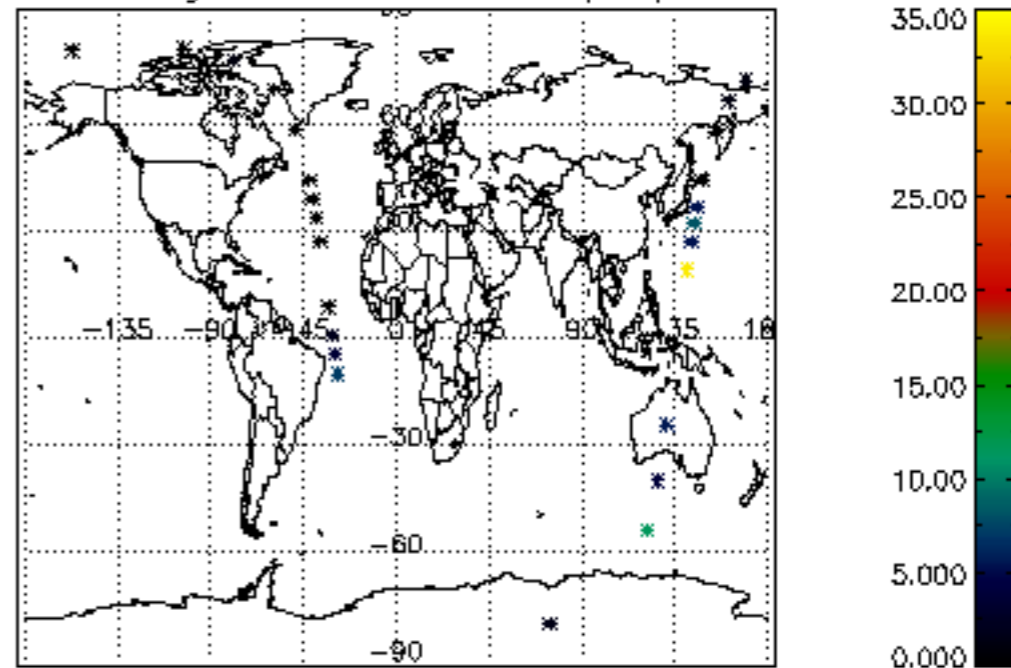
Percentage of datation errors per profile



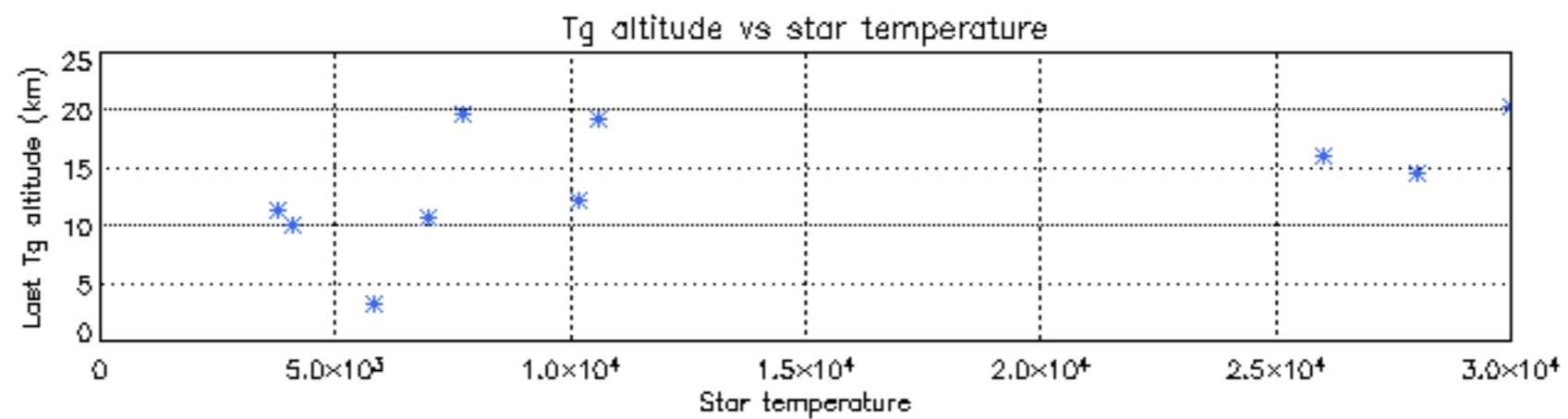
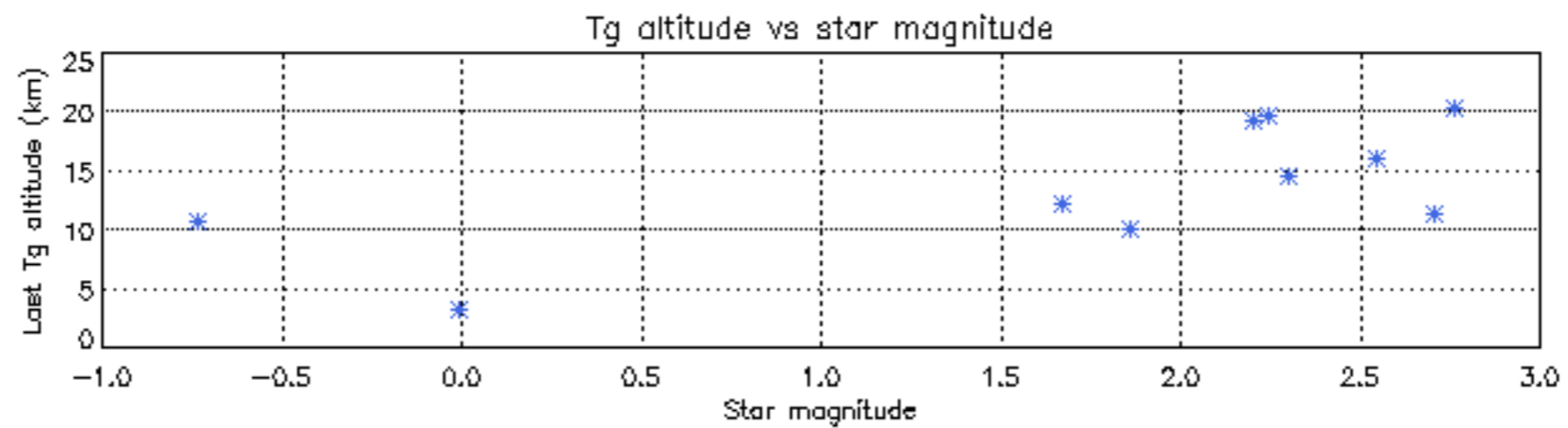
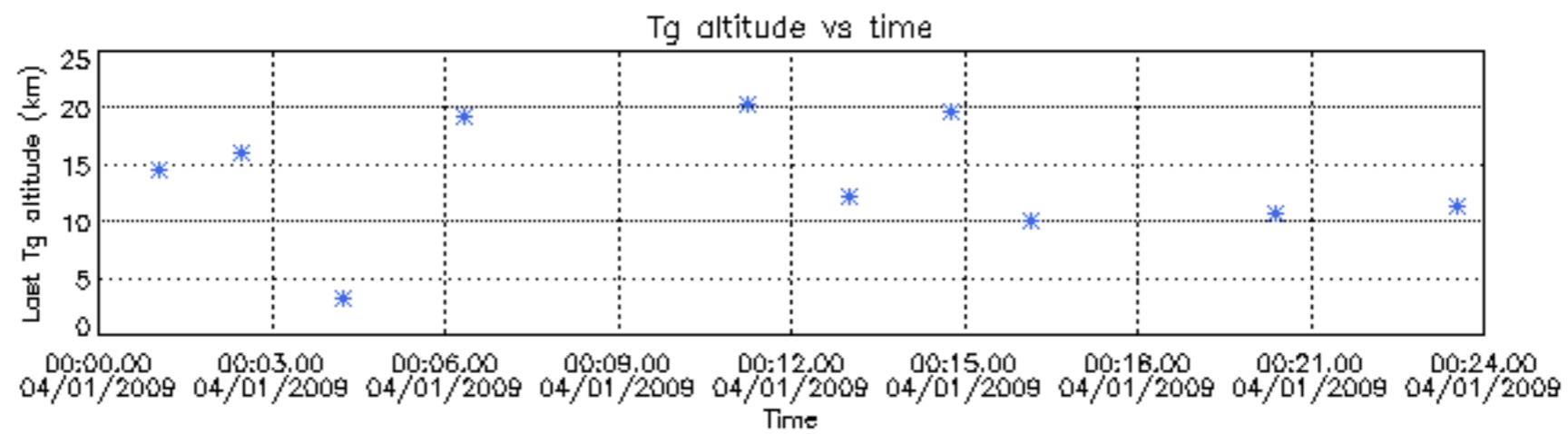
Percentage of star falling outside central band per profile



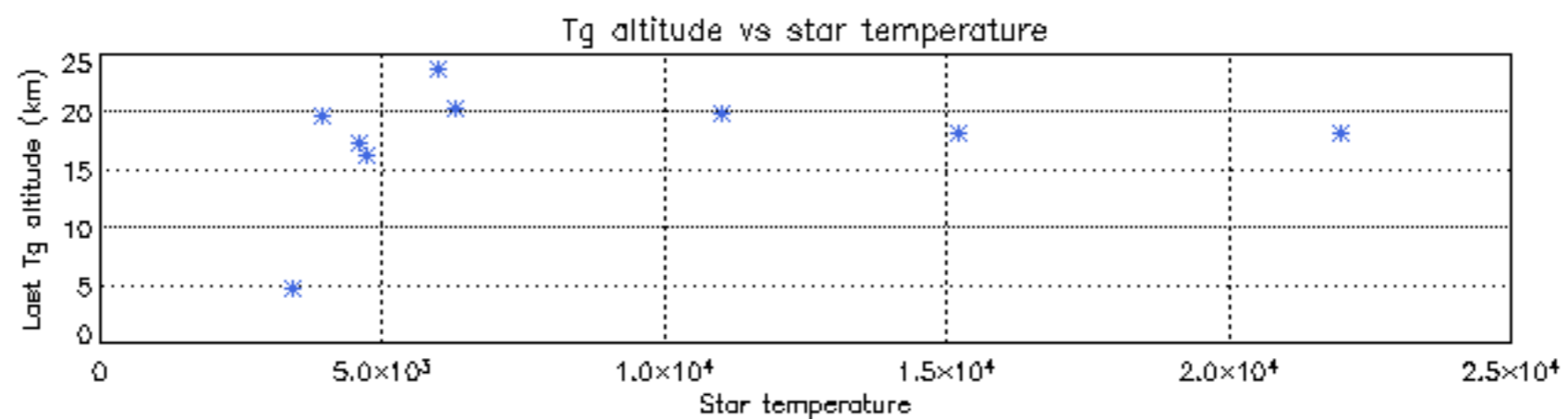
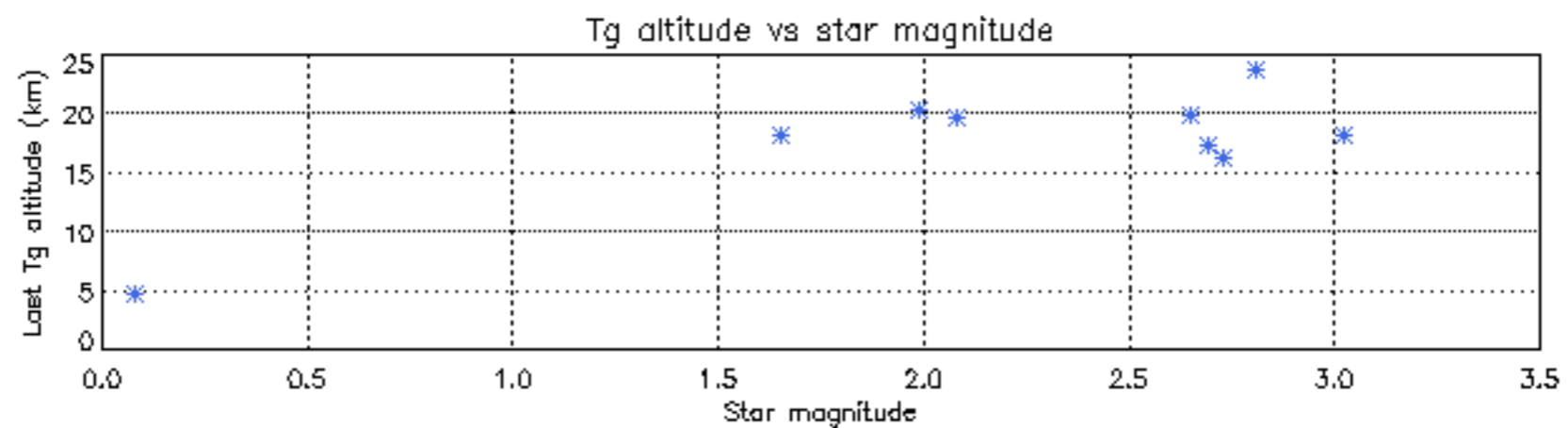
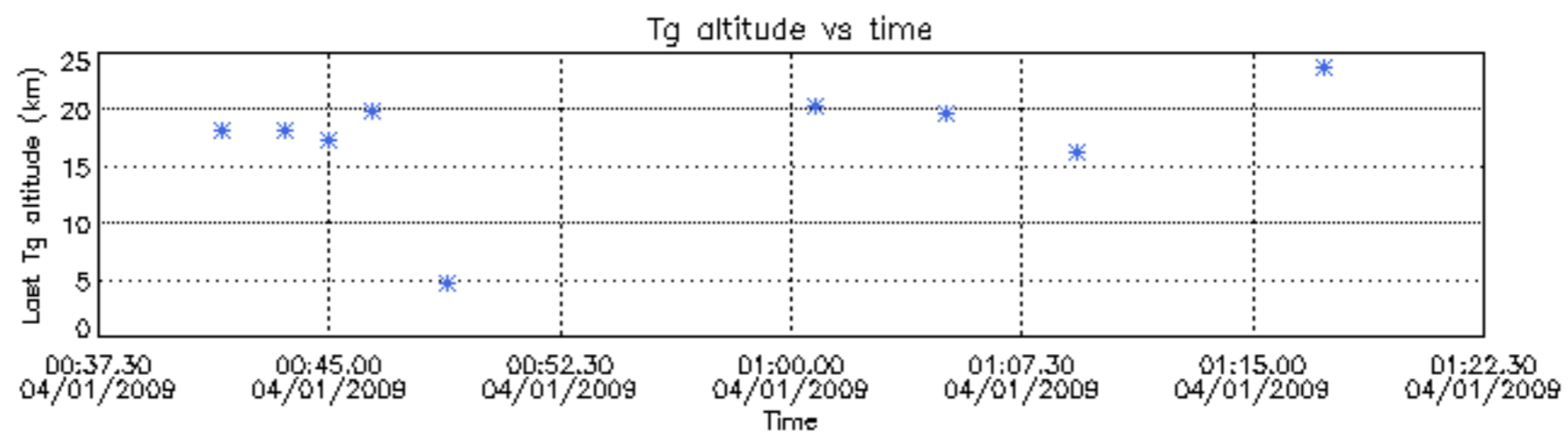
Percentage of saturation errors per profile

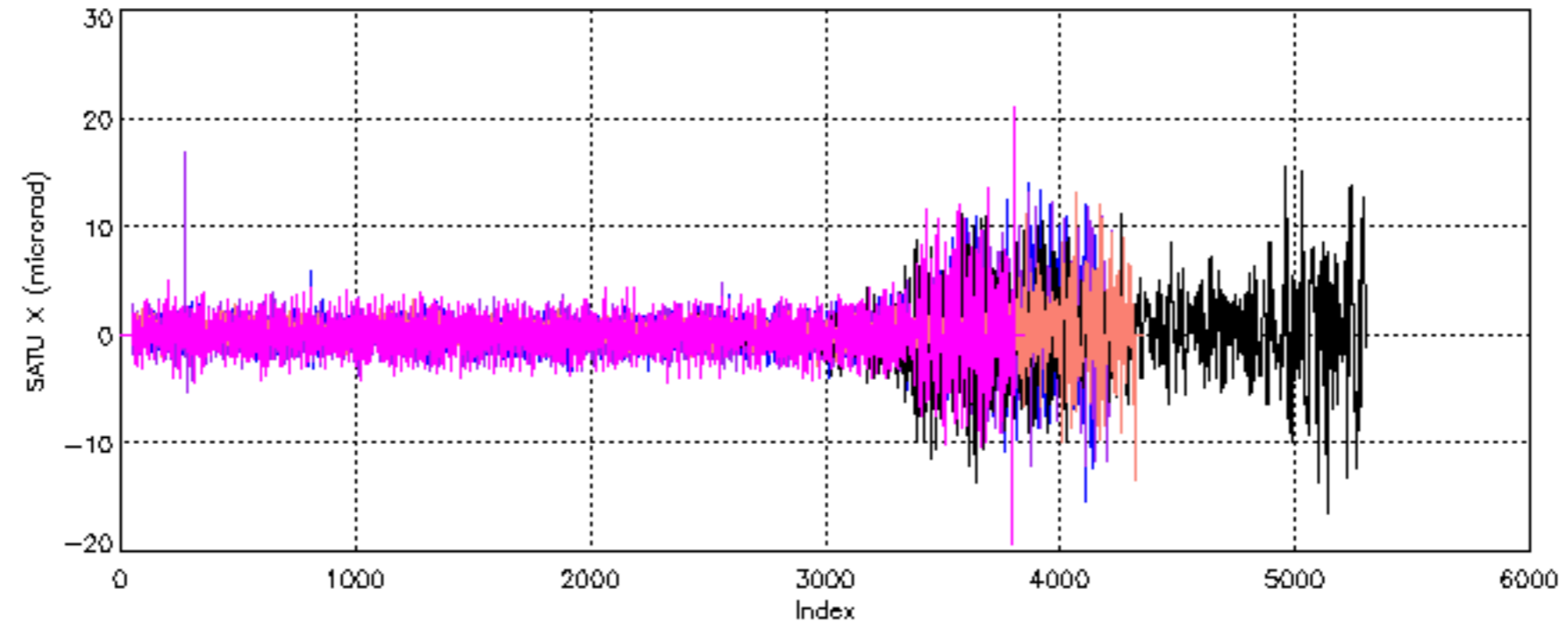


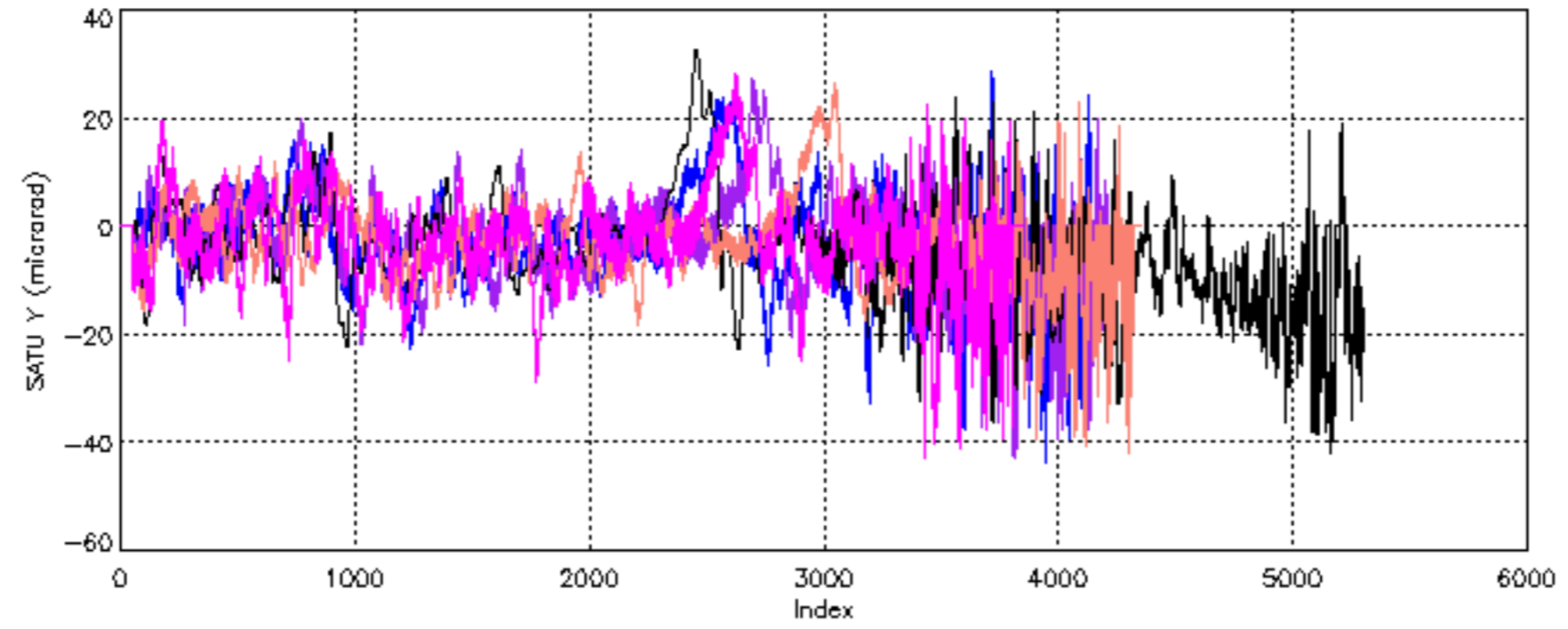
Tangent altitude at which the star is lost

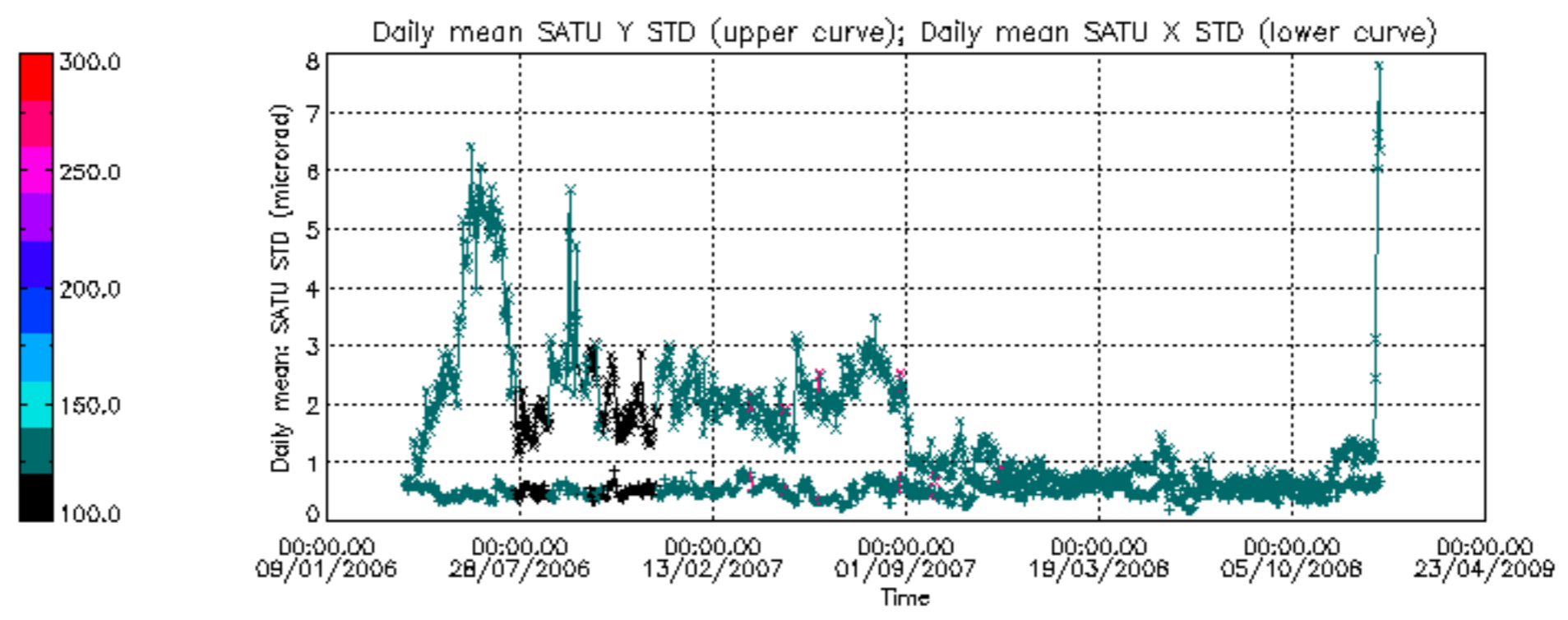


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090101_013614_000038262075_00131_35756_7133.N1

1; -100.5; 01-JAN-2009 01:36:14; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;35756
 2; 41.0; 01-JAN-2009 01:38:35; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;35757
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10; 568.2; 04-JAN-2009 22:00:19; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;35812
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12; 750.9; 04-JAN-2009 22:03:21; Dark ; 47.0; 41; Eps Car ; 1.86; 4100;occ; 94; 0;35812
13; 993.6; 04-JAN-2009 22:07:24; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;35812

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17;	1446.2;	04-JAN-2009	22:14:57;	Dark	;	43.5;	179;	240mi2CMA	;	3.03;	24000;occ;	87;	0;	35812
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19;	1778.2;	04-JAN-2009	22:20:29;	Dark	;	44.5;	7;	19Bet Ori	;	0.10;	14000;occ;	89;	0;	35812
20;	1885.8;	04-JAN-2009	22:22:16;	Dark	;	42.5;	30;	46Eps Ori	;	1.69;	30000;occ;	85;	0;	35812
21;	2030.6;	04-JAN-2009	22:24:41;	Dark	;	53.0;	14;	58Alp Ori	;	0.87;	3000;occ;	106;	0;	35812
22;	2212.0;	04-JAN-2009	22:27:42;	Dark	;	47.0;	44;	24Gam Gem	;	1.93;	11000;occ;	94;	0;	35812
23;	2311.9;	04-JAN-2009	22:29:22;	Bright;	;	45.5;	151;	13Mu Gem	;	2.89;	3000;occ;	91;	0;	35812
24;	2394.5;	04-JAN-2009	22:30:45;	Bright;	;	37.0;	28;	12Bet Tau	;	1.65;	15200;occ;	74;	0;	35812
25;	2475.7;	04-JAN-2009	22:32:06;	Bright;	;	37.0;	114;	3Iot Aur	;	2.69;	4600;occ;	74;	0;	35812
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27;	2689.3;	04-JAN-2009	22:35:40;	Bright;	;	42.5;	6;	13Alp Aur	;	0.08;	3400;occ;	85;	0;	35812
28;	3424.0;	04-JAN-2009	22:47:54;	Bright;	;	36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	35812
29;	3684.1;	04-JAN-2009	22:52:14;	Bright;	;	38.5;	60;	7Bet UMi	;	2.08;	3950;occ;	77;	0;	35812
30;	3924.0;	04-JAN-2009	22:56:14;	Bright;	;	37.5;	119;	14Eta Dra	;	2.73;	4700;occ;	75;	0;	35812
31;	4058.2;	04-JAN-2009	22:58:29;	Bright;	;	36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	35812
32;	4431.1;	04-JAN-2009	23:04:41;	Bright;	;	34.5;	133;	40Zet Her	;	2.81;	6000;occ;	69;	0;	35812
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2;	-339.0;	04-JAN-2009	23:25:47;	Dark	;	39.5;	131;	Gam Lup	;	2.80;	26000;occ;	79;	0;	35812
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4;	-163.2;	04-JAN-2009	23:28:43;	Dark	;	41.0;	78;	Alp Lup	;	2.30;	28000;occ;	82;	0;	35812
5;	-64.8;	04-JAN-2009	23:30:21;	Dark	;	40.5;	95;	Zet Cen	;	2.55;	26000;occ;	81;	0;	35812
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13;	993.5;	04-JAN-2009	23:48:00;	Dark	;	46.5;	2;	Alp Car	;	-0.74;	7000;occ;	93;	0;	35813
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22;	2211.3;	05-JAN-2009	00:08:18;	Dark	;	47.0;	44;	24Gam Gem	;	1.93;	11000;occ;	94;	0;	35813
23;	2311.3;	05-JAN-2009	00:09:58;	Bright;	;	46.0;	151;	13Mu Gem	;	2.89;	3000;occ;	92;	0;	35813
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26;	2553.8;	05-JAN-2009	00:14:00;	Bright;	;	37.5;	107;	37The Aur	;	2.65;	11000;occ;	75;	0;	35813
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28;	3424.2;	05-JAN-2009	00:28:30;	Bright;	;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	35813
29;	3684.3;	05-JAN-2009	00:32:50;	Bright;	;	35.0;	60;	7Bet UMi	;	2.08;	3950;occ;	70;	0;	35813
30;	3924.1;	05-JAN-2009	00:36:50;	Bright;	;	38.0;	119;	14Eta Dra	;	2.73;	4700;occ;	76;	0;	35813
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32;	4431.1;	05-JAN-2009	00:45:17;	Bright;	;	35.0;	133;	40Zet Her	;	2.81;	6000;occ;	70;	0;	35813
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 15; 4906.6; 04-JAN-2009 09:47:50; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;35804
 16; 5043.1; 04-JAN-2009 09:50:06; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;35804
 17; 5219.4; 04-JAN-2009 09:53:02; Bright; 42.5; 104; 27Bet Lib ; 2.61; 13100;occ; 85; 0;35804
 18; 5386.3; 04-JAN-2009 09:55:49; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;35804
 19; 5694.8; 04-JAN-2009 10:00:58; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;35804
 20; 5780.2; 04-JAN-2009 10:02:23; Dark ; 40.0; 109; Bet Lup ; 2.68; 26000;occ; 80; 0;35804
 21; 5869.3; 04-JAN-2009 10:03:52; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;35804
 22; 5965.6; 04-JAN-2009 10:05:29; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;35804
 23; 6052.1; 04-JAN-2009 10:06:55; Dark ; 46.0; 4; Alp1Cen ;-0.01; 5800;occ; 92; 0;35804
 24; 6185.7; 04-JAN-2009 10:09:09; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;35804
 25; 6294.6; 04-JAN-2009 10:10:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35804
 26; 6493.6; 04-JAN-2009 10:14:17; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;35804
 27; 6602.2; 04-JAN-2009 10:16:05; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;35804
 28; 6694.1; 04-JAN-2009 10:17:37; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;35804
 29; 6784.0; 04-JAN-2009 10:19:07; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;35804
 30; 7027.7; 04-JAN-2009 10:23:11; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;35804
 31; 7110.3; 04-JAN-2009 10:24:33; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;35804
 32; 7227.1; 04-JAN-2009 10:26:30; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35804
 33; 7390.8; 04-JAN-2009 10:29:14; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;35804
 34; 7481.2; 04-JAN-2009 10:30:44; Dark ; 42.0; 179; 240mi2CMa ; 3.03; 24000;occ; 84; 0;35804
 35; 7624.4; 04-JAN-2009 10:33:07; Dark ; 53.0; 1; 9Alp CMa ;-1.44; 11000;occ; 106; 0;35804

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 6; 2395.0; 04-JAN-2009 10:46:34; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;35805
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 11; 3685.0; 04-JAN-2009 11:08:04; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35805
 12; 3923.6; 04-JAN-2009 11:12:02; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;35805
 13; 4057.1; 04-JAN-2009 11:14:16; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;35805
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 16; 4907.1; 04-JAN-2009 11:28:26; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;35805
 17; 5043.7; 04-JAN-2009 11:30:43; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;35805
 18; 5219.9; 04-JAN-2009 11:33:39; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;35805
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 23; 5966.9; 04-JAN-2009 11:46:06; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;35805
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 25; 6186.3; 04-JAN-2009 11:49:45; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;35805
 26; 6295.5; 04-JAN-2009 11:51:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35805
 27; 6494.3; 04-JAN-2009 11:54:53; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;35805
 28; 6602.6; 04-JAN-2009 11:56:41; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;35805
 29; 6694.9; 04-JAN-2009 11:58:14; Dark ; 49.0; 71; Iot Car ; 2.25; 7700;occ; 98; 0;35805
 30; 6785.0; 04-JAN-2009 11:59:44; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;35805
 31; 7028.2; 04-JAN-2009 12:03:47; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;35805
 32; 7110.5; 04-JAN-2009 12:05:09; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;35805
 33; 7227.8; 04-JAN-2009 12:07:07; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35805
 34; 7391.0; 04-JAN-2009 12:09:50; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0;35805
 35; 7481.4; 04-JAN-2009 12:11:20; Dark ; 43.0; 179; 240mi2CMa ; 3.03; 24000;occ; 86; 0;35805

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 4; 1885.0; 04-JAN-2009 12:18:40; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;35806
 5; 2031.2; 04-JAN-2009 12:21:06; Dark ; 51.0; 14; 58Alp Ori ; 0.87; 3000;occ; 102; 0;35806
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13; 3923.8; 04-JAN-2009 12:52:39; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;35806
14; 4057.4; 04-JAN-2009 12:54:52; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;35806
15; 4430.3; 04-JAN-2009 13:01:05; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;35806
16; 4555.6; 04-JAN-2009 13:03:10; Bright; 56.0; 67; 5Alp CrB ; 2.22; 11000;occ; 112; 0;35806
17; 4907.4; 04-JAN-2009 13:09:02; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;35806
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22; 5780.5; 04-JAN-2009 13:23:35; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;35806
23; 5870.0; 04-JAN-2009 13:25:05; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;35806
24; 5967.2; 04-JAN-2009 13:26:42; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;35806
25; 6052.8; 04-JAN-2009 13:28:08; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;35806
26; 6187.3; 04-JAN-2009 13:30:22; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;35806
27; 6296.4; 04-JAN-2009 13:32:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35806
28; 6494.7; 04-JAN-2009 13:35:29; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;35806
29; 6602.6; 04-JAN-2009 13:37:17; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;35806
30; 6695.2; 04-JAN-2009 13:38:50; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;35806
31; 6785.2; 04-JAN-2009 13:40:20; Dark ; 43.0; 41; Eps Car ; 1.86; 4100;occ; 86; 0;35806
32; 7028.6; 04-JAN-2009 13:44:23; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;35806
33; 7110.7; 04-JAN-2009 13:45:45; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;35806
34; 7228.2; 04-JAN-2009 13:47:43; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;35806
35; 7391.4; 04-JAN-2009 13:50:26; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0;35806
36; 7481.3; 04-JAN-2009 13:51:56; Dark ; 43.5; 179; 240mi2Cma ; 3.03; 24000;occ; 87; 0;35806

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4; 1885.4; 04-JAN-2009 13:59:16; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;35807
5; 2031.9; 04-JAN-2009 14:01:43; Dark ; 51.5; 14; 58Alp Ori ; 0.87; 3000;occ; 103; 0;35807
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7; 2394.6; 04-JAN-2009 14:07:45; Bright; 39.0; 28; 12Bet Tau ; 1.65; 15200;occ; 78; 0;35807
8; 2475.5; 04-JAN-2009 14:09:06; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;35807
9; 2555.2; 04-JAN-2009 14:10:26; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;35807
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11; 3423.9; 04-JAN-2009 14:24:55; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;35807
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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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24; 5968.4; 04-JAN-2009 15:07:19; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;35807
25; 6053.4; 04-JAN-2009 15:08:44; Dark ; 52.5; 4; Alp1Cen ;-0.01; 5800;occ; 105; 0;35807
26; 6188.2; 04-JAN-2009 15:10:59; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;35807
27; 6297.5; 04-JAN-2009 15:12:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35807
28; 6495.2; 04-JAN-2009 15:16:06; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;35807
29; 6603.1; 04-JAN-2009 15:17:54; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;35807
30; 6695.9; 04-JAN-2009 15:19:26; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;35807
31; 6785.6; 04-JAN-2009 15:20:56; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;35807
32; 7028.6; 04-JAN-2009 15:24:59; Dark ; 37.0; 2; Alp Car ;-0.74; 7000;occ; 74; 0;35807
33; 7111.4; 04-JAN-2009 15:26:22; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;35807
34; 7228.1; 04-JAN-2009 15:28:19; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;35807
35; 7391.3; 04-JAN-2009 15:31:02; Dark ; 29.5; 23; 21Eps Cma ; 1.50; 26000;occ; 59; 0;35807

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7; 2212.8; 04-JAN-2009 15:45:19; Dark ; 30.0; 44; 24Gam Gem ; 1.93; 11000;occ; 60; 0;35808
8; 2312.5; 04-JAN-2009 15:46:59; Bright; 47.5; 151; 13Mu Gem ; 2.89; 3000;occ; 95; 0;35808
9; 2395.1; 04-JAN-2009 15:48:22; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;35808
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26; 5968.6; 04-JAN-2009 16:47:55; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;35808
27; 6053.7; 04-JAN-2009 16:49:20; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;35808
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29; 6298.5; 04-JAN-2009 16:53:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35808
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 13; 4640.1; 15-JAN-2009 08:57:23; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;35961
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 16; 5180.7; 15-JAN-2009 09:06:24; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;35961
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 18; 5763.1; 15-JAN-2009 09:16:06; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;35961
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 21; 6114.5; 15-JAN-2009 09:21:57; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;35961
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 23; 6572.2; 15-JAN-2009 09:29:35; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;35961
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 31; 7511.3; 15-JAN-2009 09:45:14; Dark ; 41.0; 179; 24Omi2CMa ; 3.03; 24000;occ; 82; 0;35961
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 16; 5180.9; 15-JAN-2009 10:47:00; Bright; 51.0; 98; 13Zet Oph ; 2.57; 30000;occ; 102; 0;35962
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 18; 5764.3; 15-JAN-2009 10:56:43; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;35962
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 23; 6572.3; 15-JAN-2009 11:10:11; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;35962
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 31; 7512.1; 15-JAN-2009 11:25:51; Dark ; 39.5; 179; 240mi2CMa ; 3.03; 24000;occ; 79; 0;35962
 32; 7645.3; 15-JAN-2009 11:28:04; Dark ; 16.0; 1; 9Alp CMa ;-1.44; 11000;occ; 32; 0;35962

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 16; 5181.0; 15-JAN-2009 12:27:36; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;35963
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 22; 6378.3; 15-JAN-2009 12:47:33; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;35963
 23; 6572.7; 15-JAN-2009 12:50:47; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;35963
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 29; 7045.7; 15-JAN-2009 16:19:52; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;35965
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 31; 7274.7; 15-JAN-2009 16:23:41; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;35965

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28;	2541.4;	19-JAN-2009	06:15:56;	Bright;	35.0;	107;	37The Aur	;	2.65;	11000;occ;	70;	0;	36017	
29;	2671.5;	19-JAN-2009	06:18:06;	Bright;	36.5;	42;	34Bet Aur	;	1.90;	10200;occ;	73;	0;	36017	
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2; -525.4; 24-JAN-2009 21:13:19; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;36097
3; -439.8; 24-JAN-2009 21:14:44; Dark ; 41.0; 75; 26Eps Sco ; 2.29; 4250;occ; 82; 0;36097
4; -189.6; 24-JAN-2009 21:18:54; Dark ; 40.5; 131; Gam Lup ; 2.80; 26000;occ; 81; 0;36097
5; -67.4; 24-JAN-2009 21:20:57; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36097
6; 40.2; 24-JAN-2009 21:22:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36098
7; 142.5; 24-JAN-2009 21:24:26; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;36098
8; 234.3; 24-JAN-2009 21:25:58; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;36098
9; 416.8; 24-JAN-2009 21:29:01; Dark ; 38.5; 12; Alp1Cru ; 0.77; 30000;occ; 77; 0;36098
10; 511.0; 24-JAN-2009 21:30:35; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36098
11; 657.0; 24-JAN-2009 21:33:01; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;36098
12; 789.0; 24-JAN-2009 21:35:13; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;36098
13; 897.2; 24-JAN-2009 21:37:01; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;36098
14; 1052.8; 24-JAN-2009 21:39:37; Dark ; 38.5; 34; Gam2Vel ; 1.79; 23000;occ; 77; 0;36098
15; 1180.1; 24-JAN-2009 21:41:44; Dark ; 36.5; 70; Zet Pup ; 2.25; 39000;occ; 73; 0;36098
16; 1269.1; 24-JAN-2009 21:43:13; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;36098
17; 1416.9; 24-JAN-2009 21:45:41; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;36098
18; 1500.1; 24-JAN-2009 21:47:04; Dark ; 39.5; 179; 240mi2CMa ; 3.03; 24000;occ; 79; 0;36098
19; 1629.9; 24-JAN-2009 21:49:14; Dark ; 45.5; 1; 9Alp CMa ; -1.44; 11000;occ; 91; 0;36098
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21; 2188.0; 24-JAN-2009 21:58:32; Bright; 38.0; 44; 24Gam Gem ; 1.93; 11000;occ; 76; 0;36098
22; 2295.1; 24-JAN-2009 22:00:19; Bright; 39.5; 151; 13Mu Gem ; 2.89; 3000;occ; 79; 0;36098
23; 2414.2; 24-JAN-2009 22:02:18; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;36098
24; 2549.5; 24-JAN-2009 22:04:33; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;36098
25; 2677.4; 24-JAN-2009 22:06:41; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;36098
26; 3426.8; 24-JAN-2009 22:19:11; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36098
27; 3636.3; 24-JAN-2009 22:22:40; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;36098
28; 3910.4; 24-JAN-2009 22:27:14; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;36098
29; 4085.4; 24-JAN-2009 22:30:09; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;36098
30; 4289.7; 24-JAN-2009 22:33:34; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;36098
31; 4473.2; 24-JAN-2009 22:36:37; Bright; 58.0; 133; 40Zet Her ; 2.81; 6000;occ; 116; 0;36098
32; 4674.3; 24-JAN-2009 22:39:58; Bright; 60.0; 127; 27Bet Her ; 2.78; 4700;occ; 120; 0;36098
33; 4771.4; 24-JAN-2009 22:41:35; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;36098
34; 4898.3; 24-JAN-2009 22:43:42; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;36098
35; 5240.7; 24-JAN-2009 22:49:25; Dark ; 43.0; 98; 13Zet Oph ; 2.57; 30000;occ; 86; 0;36098

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2; -439.6; 24-JAN-2009 22:55:20; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36098
3; -189.1; 24-JAN-2009 22:59:31; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;36098
4; -66.7; 24-JAN-2009 23:01:33; Dark ; 43.0; 109; Bet Lup ; 2.68; 26000;occ; 86; 0;36098
5; 40.9; 24-JAN-2009 23:03:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36099
6; 143.4; 24-JAN-2009 23:05:03; Dark ; 55.0; 4; Alp1Cen ; -0.01; 5800;occ; 110; 0;36099
7; 235.3; 24-JAN-2009 23:06:35; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;36099
8; 417.0; 24-JAN-2009 23:09:37; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;36099
9; 511.8; 24-JAN-2009 23:11:12; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36099
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 13; 1053.7; 24-JAN-2009 23:20:13; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;36099
 14; 1179.9; 24-JAN-2009 23:22:20; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;36099
 15; 1269.2; 24-JAN-2009 23:23:49; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;36099
 16; 1416.6; 24-JAN-2009 23:26:16; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;36099
 17; 1499.6; 24-JAN-2009 23:27:39; Dark ; 39.5; 179; 240mi2CMA ; 3.03; 24000;occ; 79; 0;36099
 18; 1629.4; 24-JAN-2009 23:29:49; Dark ; 43.5; 1; 9Alp CMA ; -1.44; 11000;occ; 87; 0;36099
 19; 1995.4; 24-JAN-2009 23:35:55; Dark ; 50.0; 8; 10Alp CMI ; 0.40; 6500;occ; 100; 0;36099
 20; 2188.5; 24-JAN-2009 23:39:08; Bright; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;36099
 21; 2295.5; 24-JAN-2009 23:40:55; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;36099
 22; 2414.2; 24-JAN-2009 23:42:54; Bright; 41.5; 17; 78Bet Gem ; 1.16; 4500;occ; 83; 0;36099
 23; 2549.5; 24-JAN-2009 23:45:09; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;36099
 24; 2677.5; 24-JAN-2009 23:47:17; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;36099
 25; 3426.3; 24-JAN-2009 23:59:46; Bright; 36.0; 49; 1Alp UMI ; 1.99; 6300;occ; 72; 0;36099
 26; 3635.7; 25-JAN-2009 00:03:15; Bright; 37.5; 60; 7Bet UMI ; 2.08; 3950;occ; 75; 0;36099
 27; 3910.4; 25-JAN-2009 00:07:50; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;36099
 28; 4085.4; 25-JAN-2009 00:10:45; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;36099
 29; 4289.7; 25-JAN-2009 00:14:09; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;36099
 30; 4473.3; 25-JAN-2009 00:17:13; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;36099
 31; 4674.7; 25-JAN-2009 00:20:34; Bright; 60.0; 127; 27Bet Her ; 2.78; 4700;occ; 120; 0;36099
 32; 4771.4; 25-JAN-2009 00:22:11; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;36099
 33; 4897.9; 25-JAN-2009 00:24:18; Bright; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;36099
 34; 5240.9; 25-JAN-2009 00:30:01; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36099

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 3; -1950.6; 24-JAN-2009 07:24:46; Bright; 53.0; 130; 23Bet Dra ; 2.80; 5800;occ; 106; 0;36089
 4; -1564.0; 24-JAN-2009 07:31:13; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;36089
 5; -1363.8; 24-JAN-2009 07:34:33; Bright; 60.0; 127; 27Bet Her ; 2.78; 4700;occ; 120; 0;36089
 6; -1266.8; 24-JAN-2009 07:36:10; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;36089
 7; -1140.1; 24-JAN-2009 07:38:16; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;36089
 8; -799.5; 24-JAN-2009 07:43:57; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36089
 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
 14; 138.8; 24-JAN-2009 07:59:35; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;36090
 15; 228.6; 24-JAN-2009 08:01:05; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;36090
 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
 24; 1415.1; 24-JAN-2009 08:20:52; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;36090
 25; 1498.1; 24-JAN-2009 08:22:15; Dark ; 39.0; 179; 240mi2CMA ; 3.03; 24000;occ; 78; 0;36090
 26; 1628.4; 24-JAN-2009 08:24:25; Dark ; 27.5; 1; 9Alp CMA ; -1.44; 11000;occ; 55; 0;36090

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 3; 2187.8; 24-JAN-2009 08:33:44; Bright; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;36090
 4; 2294.5; 24-JAN-2009 08:35:31; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;36090
 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
 14; 4769.2; 24-JAN-2009 09:16:46; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;36090
 15; 4895.9; 24-JAN-2009 09:18:52; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;36090
 16; 5236.7; 24-JAN-2009 09:24:33; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36090

17; 5506.8; 24-JAN-2009 09:29:03; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;36090
 18; 5593.1; 24-JAN-2009 09:30:30; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36090
 19; 5841.2; 24-JAN-2009 09:34:38; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;36090
 20; 5962.6; 24-JAN-2009 09:36:39; Dark ; 43.5; 109; Bet Lup ; 2.68; 26000;occ; 87; 0;36090
 21; 6071.6; 24-JAN-2009 09:38:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36090
 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
 30; 7213.8; 24-JAN-2009 09:57:30; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;36090
 31; 7302.6; 24-JAN-2009 09:58:59; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;36090
 32; 7451.6; 24-JAN-2009 10:01:28; Dark ; 39.5; 23; 21Eps CMA ; 1.50; 26000;occ; 79; 0;36090
 33; 7534.6; 24-JAN-2009 10:02:51; Dark ; 39.0; 179; 240mi2CMA ; 3.03; 24000;occ; 78; 0;36090
 34; 7663.6; 24-JAN-2009 10:05:00; Dark ; 41.5; 1; 9Alp CMA ;-1.44; 11000;occ; 83; 0;36090

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 4; 2294.5; 24-JAN-2009 10:16:07; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;36091
 5; 2416.1; 24-JAN-2009 10:18:09; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;36091
 6; 2548.2; 24-JAN-2009 10:20:21; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36091
 7; 2676.8; 24-JAN-2009 10:22:29; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;36091
 8; 3426.5; 24-JAN-2009 10:34:59; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;36091
 9; 3637.7; 24-JAN-2009 10:38:30; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;36091
 10; 3911.2; 24-JAN-2009 10:43:04; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;36091
 11; 4085.3; 24-JAN-2009 10:45:58; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;36091
 12; 4472.2; 24-JAN-2009 10:52:25; Bright; 39.5; 133; 40Zet Her ; 2.81; 6000;occ; 79; 0;36091
 13; 4672.4; 24-JAN-2009 10:55:45; Bright; 44.0; 127; 27Bet Her ; 2.78; 4700;occ; 88; 0;36091
 14; 4769.5; 24-JAN-2009 10:57:22; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;36091
 15; 4896.4; 24-JAN-2009 10:59:29; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;36091
 16; 5236.7; 24-JAN-2009 11:05:09; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36091
 17; 5507.4; 24-JAN-2009 11:09:40; Dark ; 47.0; 16; 21Alp Sco ; 1.02; 3000;occ; 94; 0;36091
 18; 5593.6; 24-JAN-2009 11:11:06; Dark ; 44.0; 75; 26Eps Sco ; 2.29; 4250;occ; 88; 0;36091
 19; 5841.9; 24-JAN-2009 11:15:14; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;36091
 20; 5963.5; 24-JAN-2009 11:17:16; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36091
 21; 6072.2; 24-JAN-2009 11:19:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36091
 22; 6176.0; 24-JAN-2009 11:20:48; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;36091
 23; 6265.8; 24-JAN-2009 11:22:18; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;36091
 24; 6449.3; 24-JAN-2009 11:25:22; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;36091
 25; 6542.4; 24-JAN-2009 11:26:55; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36091
 26; 6691.5; 24-JAN-2009 11:29:24; Dark ; 43.0; 29; Bet Car ; 1.67; 10200;occ; 86; 0;36091
 27; 6822.7; 24-JAN-2009 11:31:35; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;36091
 28; 6931.3; 24-JAN-2009 11:33:24; Dark ; 37.0; 46; Del Vel ; 1.95; 10600;occ; 74; 0;36091
 29; 7087.2; 24-JAN-2009 11:36:00; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;36091
 30; 7214.4; 24-JAN-2009 11:38:07; Dark ; 37.0; 70; Zet Pup ; 2.25; 39000;occ; 74; 0;36091
 31; 7303.0; 24-JAN-2009 11:39:35; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;36091
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11; 700.6; 29-JAN-2009 23:57:27; Dark ; 41.5; 159; Ups Car ; 2.92; 7200;occ; 83; 0;36171
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19; 2195.9; 30-JAN-2009 00:22:22; Bright; 38.0; 44; 24Gam Gem ; 1.93; 11000;occ; 76; 0;36171
20; 2305.6; 30-JAN-2009 00:24:12; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;36171
21; 2398.0; 30-JAN-2009 00:25:44; Bright; 41.5; 17; 78Bet Gem ; 1.16; 4500;occ; 83; 0;36171
22; 2688.0; 30-JAN-2009 00:30:34; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;36171
23; 3427.0; 30-JAN-2009 00:42:53; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36171
24; 3619.6; 30-JAN-2009 00:46:06; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;36171
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26; 4087.5; 30-JAN-2009 00:53:54; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;36171
27; 4301.5; 30-JAN-2009 00:57:28; Bright; 31.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 62; 0;36171
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29; 4917.9; 30-JAN-2009 01:07:44; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;36171
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3; -1949.0; 29-JAN-2009 06:27:18; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;36160
4; -1735.5; 29-JAN-2009 06:30:52; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;36160
5; -1248.4; 29-JAN-2009 06:38:59; Bright; 54.0; 59; 55Alp Oph ; 2.08; 8900;occ; 108; 0;36160
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12; 82.2; 29-JAN-2009 07:01:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36161
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17; 811.6; 29-JAN-2009 07:13:19; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;36161
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22; 1405.4; 29-JAN-2009 07:23:12; Dark ; 38.0; 88; 31Eta CMa ; 2.45; 20000;occ; 76; 0;36161
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2;	2194.5;	29-JAN-2009	07:36:22;	Bright;	;	39.5;	44;	24Gam Gem	;	1.93;	11000;occ;	79;	0;	36161
3;	2303.5;	29-JAN-2009	07:38:11;	Bright;	;	38.5;	151;	13Mu Gem	;	2.89;	3000;occ;	77;	0;	36161
4;	2399.6;	29-JAN-2009	07:39:47;	Bright;	;	42.0;	17;	78Bet Gem	;	1.16;	4500;occ;	84;	0;	36161
5;	2686.5;	29-JAN-2009	07:44:34;	Bright;	;	38.0;	42;	34Bet Aur	;	1.90;	10200;occ;	76;	0;	36161
6;	3427.1;	29-JAN-2009	07:56:54;	Bright;	;	34.0;	49;	1Alp UMi	;	1.99;	6300;occ;	68;	0;	36161
7;	3621.8;	29-JAN-2009	08:00:09;	Bright;	;	36.5;	60;	7Bet UMi	;	2.08;	3950;occ;	73;	0;	36161
8;	3902.5;	29-JAN-2009	08:04:50;	Bright;	;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;	36161
9;	4087.4;	29-JAN-2009	08:07:55;	Bright;	;	54.0;	130;	23Bet Dra	;	2.80;	5800;occ;	108;	0;	36161
10;	4299.8;	29-JAN-2009	08:11:27;	Bright;	;	52.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	104;	0;	36161
11;	4788.0;	29-JAN-2009	08:19:35;	Bright;	;	36.5;	59;	55Alp Oph	;	2.08;	8900;occ;	73;	0;	36161
12;	4914.9;	29-JAN-2009	08:21:42;	Bright;	;	35.5;	126;	60Bet Oph	;	2.77;	4250;occ;	71;	0;	36161
13;	5297.2;	29-JAN-2009	08:28:04;	Dark	;	43.0;	86;	35Eta Oph	;	2.43;	10200;occ;	86;	0;	36161
14;	5511.4;	29-JAN-2009	08:31:39;	Dark	;	36.0;	97;	8Bet1Sco	;	2.56;	30000;occ;	72;	0;	36161
15;	5606.0;	29-JAN-2009	08:33:13;	Dark	;	40.5;	25;	35Lam Sco	;	1.62;	28000;occ;	81;	0;	36161
16;	5892.3;	29-JAN-2009	08:37:59;	Dark	;	42.0;	131;	Gam Lup	;	2.80;	26000;occ;	84;	0;	36161
17;	6022.3;	29-JAN-2009	08:40:09;	Dark	;	45.0;	109;	Bet Lup	;	2.68;	26000;occ;	90;	0;	36161
18;	6118.8;	29-JAN-2009	08:41:46;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	36161
19;	6212.0;	29-JAN-2009	08:43:19;	Dark	;	29.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	59;	0;	36161
20;	6320.2;	29-JAN-2009	08:45:07;	Dark	;	43.0;	77;	Eps Cen	;	2.30;	28000;occ;	86;	0;	36161
21;	6487.6;	29-JAN-2009	08:47:55;	Dark	;	39.5;	12;	Alp1Cru	;	0.77;	30000;occ;	79;	0;	36161
22;	6732.9;	29-JAN-2009	08:52:00;	Dark	;	38.0;	159;	Ups Car	;	2.92;	7200;occ;	76;	0;	36161
23;	6847.9;	29-JAN-2009	08:53:55;	Dark	;	42.5;	71;	Iot Car	;	2.25;	7700;occ;	85;	0;	36161
24;	6953.9;	29-JAN-2009	08:55:41;	Dark	;	42.5;	46;	Del Vel	;	1.95;	10600;occ;	85;	0;	36161
25;	7107.0;	29-JAN-2009	08:58:14;	Dark	;	42.0;	34;	Gam2Vel	;	1.79;	23000;occ;	84;	0;	36161
26;	7232.6;	29-JAN-2009	09:00:20;	Dark	;	39.5;	70;	Zet Pup	;	2.25;	39000;occ;	79;	0;	36161
27;	7317.2;	29-JAN-2009	09:01:44;	Dark	;	43.5;	117;	Pi Pup	;	2.71;	3800;occ;	87;	0;	36161
28;	7441.5;	29-JAN-2009	09:03:49;	Dark	;	41.0;	88;	31Eta CMa	;	2.45;	20000;occ;	82;	0;	36161
29;	7546.4;	29-JAN-2009	09:05:34;	Dark	;	38.5;	179;	240mi2CMa	;	3.03;	24000;occ;	77;	0;	36161

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2;	2194.8;	29-JAN-2009	12:38:10;	Bright;	;	42.5;	44;	24Gam Gem	;	1.93;	11000;occ;	85;	0;	36164
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4;	2399.2;	29-JAN-2009	12:41:34;	Bright;	;	43.0;	17;	78Bet Gem	;	1.16;	4500;occ;	86;	0;	36164
5;	2687.0;	29-JAN-2009	12:46:22;	Bright;	;	36.0;	42;	34Bet Aur	;	1.90;	10200;occ;	72;	0;	36164
6;	3621.2;	29-JAN-2009	13:01:56;	Bright;	;	36.5;	60;	7Bet UMi	;	2.08;	3950;occ;	73;	0;	36164
7;	3901.3;	29-JAN-2009	13:06:36;	Bright;	;	41.0;	119;	14Eta Dra	;	2.73;	4700;occ;	82;	0;	36164
8;	4087.0;	29-JAN-2009	13:09:42;	Bright;	;	37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	0;	36164
9;	4300.4;	29-JAN-2009	13:13:15;	Bright;	;	52.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	104;	0;	36164
10;	4788.0;	29-JAN-2009	13:21:23;	Bright;	;	37.0;	59;	55Alp Oph	;	2.08;	8900;occ;	74;	0;	36164
11;	4915.4;	29-JAN-2009	13:23:30;	Bright;	;	38.5;	126;	60Bet Oph	;	2.77;	4250;occ;	77;	0;	36164
12;	5298.9;	29-JAN-2009	13:29:54;	Dark	;	43.0;	86;	35Eta Oph	;	2.43;	10200;occ;	86;	0;	36164
13;	5551.4;	29-JAN-2009	13:34:06;	Dark	;	46.5;	16;	21Alp Sco	;	1.02;	3000;occ;	93;	0;	36164
14;	5895.1;	29-JAN-2009	13:39:50;	Dark	;	44.5;	131;	Gam Lup	;	2.80;	26000;occ;	89;	0;	36164
15;	6025.0;	29-JAN-2009	13:42:00;	Dark	;	45.0;	109;	Bet Lup	;	2.68;	26000;occ;	90;	0;	36164
16;	6120.8;	29-JAN-2009	13:43:36;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	36164
17;	6213.9;	29-JAN-2009	13:45:09;	Dark	;	41.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	82;	0;	36164
18;	6322.6;	29-JAN-2009	13:46:57;	Dark	;	43.0;	77;	Eps Cen	;	2.30;	28000;occ;	86;	0;	36164
19;	6489.5;	29-JAN-2009	13:49:44;	Dark	;	42.0;	12;	Alp1Cru	;	0.77;	30000;occ;	84;	0;	36164
20;	6602.3;	29-JAN-2009	13:51:37;	Dark	;	44.5;	99;	Del Cen	;	2.58;	26000;occ;	89;	0;	36164
21;	6734.5;	29-JAN-2009	13:53:49;	Dark	;	36.0;	159;	Ups Car	;	2.92;	7200;occ;	72;	0;	36164
22;	6849.1;	29-JAN-2009	13:55:44;	Dark	;	46.0;	71;	Iot Car	;	2.25;	7700;occ;	92;	0;	36164
23;	6955.1;	29-JAN-2009	13:57:30;	Dark	;	40.5;	46;	Del Vel	;	1.95;	10600;occ;	81;	0;	36164
24;	7108.0;	29-JAN-2009	14:00:03;	Dark	;	39.0;	34;	Gam2Vel	;	1.79;	23000;occ;	78;	0;	36164
25;	7233.3;	29-JAN-2009	14:02:08;	Dark	;	42.5;	70;	Zet Pup	;	2.25;	39000;occ;	85;	0;	36164
26;	7317.9;	29-JAN-2009	14:03:33;	Dark	;	44.0;	117;	Pi Pup	;	2.71;	3800;occ;	88;	0;	36164
27;	7442.5;	29-JAN-2009	14:05:37;	Dark	;	29.5;	88;	31Eta CMa	;	2.45;	20000;occ;	59;	0;	36164

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3;	-135.8;	30-JAN-2009	01:24:07;	Dark	;	42.0;	131;	Gam Lup	;	2.80;	26000;occ;	84;	0;	36171
4;	-4.2;	30-JAN-2009	01:26:18;	Dark	;	44.0;	109;	Bet Lup	;	2.68;	26000;occ;	88;	0;	36171
5;	89.7;	30-JAN-2009	01:27:52;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	36172
6;	181.7;	30-JAN-2009	01:29:24;	Dark	;	52.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	105;	0;	36172
7;	292.0;	30-JAN-2009	01:31:14;	Dark	;	42.5;	77;	Eps Cen	;	2.30;	28000;occ;	85;	0;	36172
8;	457.3;	30-JAN-2009	01:34:00;	Dark	;	43.5;	12;	Alp1Cru	;	0.77;	30000;occ;	87;	0;	36172
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22; 3427.5; 30-JAN-2009 02:23:30; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;36172
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10; 90.4; 30-JAN-2009 03:08:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36173
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13; 458.0; 30-JAN-2009 03:14:36; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;36173
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 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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 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
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 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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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
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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
18; 6227.9; 31-JAN-2009 11:01:33; Dark ; 34.5; 4; Alp1Cen ; -0.01; 5800;occ; 69; 0;36191
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
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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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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