

GOMOS Daily Report 03-JUL-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	06JUL2009 04:37:14
Data source version	GOMOS/5.00
Start time of products	03JUL2009 00:01:01
Stop time of products	03JUL2009 21:30:14
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)

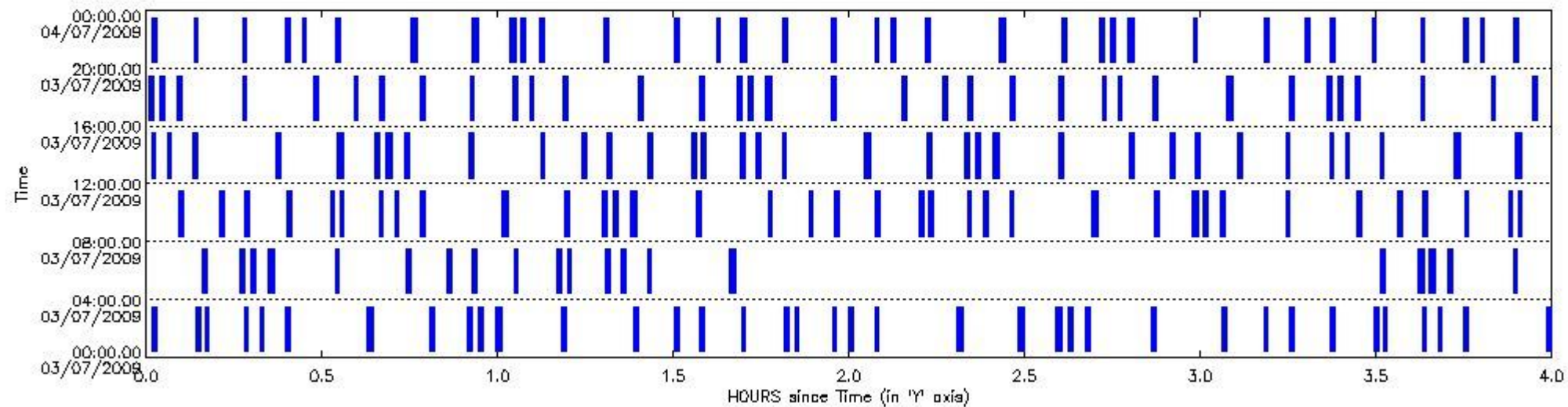
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

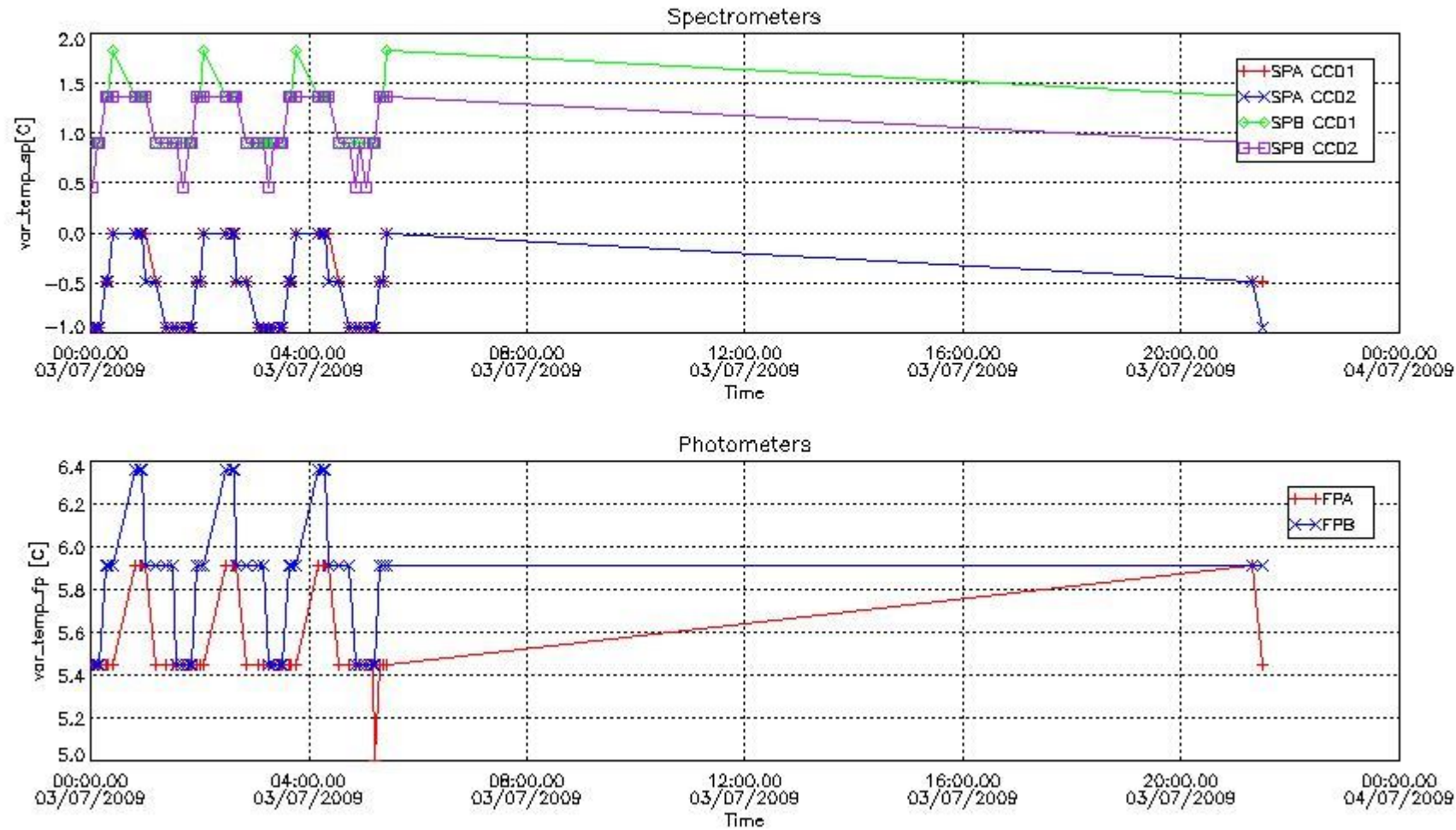
No missing products.

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_1PNPDE20090703_000101_000000412080_00245_38375_1422.N1	03-JUL-2009 00:01:01	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	38375	No
2	GOM_TRA_1PNPDE20090703_000826_000000432080_00245_38375_1423.N1	03-JUL-2009 00:08:26	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	38375	No
3	GOM_TRA_1PNPDE20090703_001005_000000372080_00245_38375_1424.N1	03-JUL-2009 00:10:05	Bright	36.500	110	37Del Cas	2.6780	8900.0	73	38375	No
4	GOM_TRA_1PNPDE20090703_001641_000000372080_00245_38375_1425.N1	03-JUL-2009 00:16:41	Bright	37.000	73	57Gam1And	2.2600	13100.	74	38375	No
5	GOM_TRA_1PNPDE20090703_001923_000000382080_00245_38375_1426.N1	03-JUL-2009 00:19:23	Twl_and_stray	37.500	173	4Bet Tri	3.0040	8900.0	75	38375	No
6	GOM_TRA_1PNPDE20090703_002346_000000422080_00245_38375_1427.N1	03-JUL-2009 00:23:46	Dark	41.500	50	13Alp Ari	2.0070	4250.0	83	38375	No
7	GOM_TRA_1PNPDE20090703_004820_000000512080_00246_38376_1568.N1	03-JUL-2009 00:48:20	Dark	51.000	84	Alp Phe	2.3970	4500.0	102	38376	No
8	GOM_TRA_1PNPDE20090703_005447_000000522080_00246_38376_1569.N1	03-JUL-2009 00:54:47	Straylight	51.500	63	Bet Gru	2.1500	2800.0	103	38376	No
9	GOM_TRA_1PNPDE20090703_005641_000000492080_00246_38376_1570.N1	03-JUL-2009 00:56:41	Straylight	49.000	31	Alp Gru	1.7340	15200.	98	38376	No
10	GOM_TRA_1PNPDE20090703_005939_000000572080_00246_38376_1571.N1	03-JUL-2009 00:59:39	Straylight	56.500	172	Gam Gru	3.0030	13100.	113	38376	No
11	GOM_TRA_1PNPDE20090703_011058_000000482080_00246_38376_1572.N1	03-JUL-2009 01:10:58	Bright	48.000	155	41Pi Sgr	2.9000	6600.0	96	38376	No
12	GOM_TRA_1PNPDE20090703_012309_000000462080_00246_38376_1573.N1	03-JUL-2009 01:23:09	Bright	45.500	168	17Zet Aql	2.9860	11000.	91	38376	No

13	GOM_TRA_1PNPDE20090703_013010_000000472080_00246_38376_1574.N1	03-JUL-2009 01:30:10	Bright	47.000	5	3Alp Lyr	0.033000	11000.	94	38376	No
14	GOM_TRA_1PNPDE20090703_013430_000000452080_00246_38376_1575.N1	03-JUL-2009 01:34:30	Bright	44.500	144	18Del Cyg	2.8600	11000.	89	38376	No
15	GOM_TRA_1PNPDE20090703_014136_000000422080_00246_38376_1576.N1	03-JUL-2009 01:41:36	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	38376	No
16	GOM_TRA_1PNPDE20090703_014901_000000442080_00246_38376_1577.N1	03-JUL-2009 01:49:01	Bright	44.000	74	11Bet Cas	2.2680	6600.0	88	38376	No
17	GOM_TRA_1PNPDE20090703_015040_000000372080_00246_38376_1578.N1	03-JUL-2009 01:50:40	Bright	37.000	110	37Del Cas	2.6780	8900.0	74	38376	No
18	GOM_TRA_1PNPDE20090703_015717_000000372080_00246_38376_1579.N1	03-JUL-2009 01:57:17	Bright	37.000	73	57Gam1And	2.2600	13100.	74	38376	No
19	GOM_TRA_1PNPDE20090703_015959_000000382080_00246_38376_1580.N1	03-JUL-2009 01:59:59	Twilight	37.500	173	4Bet Tri	3.0040	8900.0	75	38376	No
20	GOM_TRA_1PNPDE20090703_020422_000000442080_00246_38376_1581.N1	03-JUL-2009 02:04:22	Dark	43.500	50	13Alp Ari	2.0070	4250.0	87	38376	No
21	GOM_TRA_1PNPDE20090703_022857_000000512080_00247_38377_1712.N1	03-JUL-2009 02:28:57	Dark	50.500	84	Alp Phe	2.3970	4500.0	101	38377	No
22	GOM_TRA_1PNPDE20090703_023523_000000502080_00247_38377_1713.N1	03-JUL-2009 02:35:23	Straylight	50.000	63	Bet Gru	2.1500	2800.0	100	38377	No
23	GOM_TRA_1PNPDE20090703_023718_000000602080_00247_38377_1714.N1	03-JUL-2009 02:37:18	Straylight	60.000	31	Alp Gru	1.7340	15200.	120	38377	No
24	GOM_TRA_1PNPDE20090703_024016_000000582080_00247_38377_1715.N1	03-JUL-2009 02:40:16	Straylight	58.000	172	Gam Gru	3.0030	13100.	116	38377	No
25	GOM_TRA_1PNPDE20090703_025134_000000432080_00247_38377_1716.N1	03-JUL-2009 02:51:34	Bright	43.000	155	41Pi Sgr	2.9000	6600.0	86	38377	No
26	GOM_TRA_1PNPDE20090703_030344_000000472080_00247_38377_1717.N1	03-JUL-2009 03:03:44	Bright	46.500	168	17Zet Aql	2.9860	11000.	93	38377	No
27	GOM_TRA_1PNPDE20090703_031045_000000462080_00247_38377_1718.N1	03-JUL-2009 03:10:45	Bright	46.000	5	3Alp Lyr	0.033000	11000.	92	38377	No
28	GOM_TRA_1PNPDE20090703_031505_000000492080_00247_38377_1719.N1	03-JUL-2009 03:15:05	Bright	48.500	144	18Del Cyg	2.8600	11000.	97	38377	No
29	GOM_TRA_1PNPDE20090703_032211_000000442080_00247_38377_1720.N1	03-JUL-2009 03:22:11	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	38377	No
30	GOM_TRA_1PNPDE20090703_032937_000000432080_00247_38377_1869.N1	03-JUL-2009 03:29:37	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	38377	No
31	GOM_TRA_1PNPDE20090703_033116_000000382080_00247_38377_1870.N1	03-JUL-2009 03:31:16	Bright	37.500	110	37Del Cas	2.6780	8900.0	75	38377	No
32	GOM_TRA_1PNPDE20090703_033752_000000382080_00247_38377_1871.N1	03-JUL-2009 03:37:52	Bright	38.000	73	57Gam1And	2.2600	13100.	76	38377	No
33	GOM_TRA_1PNPDE20090703_034035_000000392080_00247_38377_1872.N1	03-JUL-2009 03:40:35	Twilight	38.500	173	4Bet Tri	3.0040	8900.0	77	38377	No
34	GOM_TRA_1PNPDE20090703_034458_000000452080_00247_38377_1873.N1	03-JUL-2009 03:44:58	Dark	45.000	50	13Alp Ari	2.0070	4250.0	90	38377	No
35	GOM_TRA_1PNPDE20090703_040934_000000492080_00248_38378_1874.N1	03-JUL-2009 04:09:34	Dark	49.000	84	Alp Phe	2.3970	4500.0	98	38378	No
36	GOM_TRA_1PNPDE20090703_041601_000000542080_00248_38378_1875.N1	03-JUL-2009 04:16:01	Straylight	53.500	63	Bet Gru	2.1500	2800.0	107	38378	No
37	GOM_TRA_1PNPDE20090703_041755_000000522080_00248_38378_1876.N1	03-JUL-2009 04:17:55	Straylight	51.500	31	Alp Gru	1.7340	15200.	103	38378	No
38	GOM_TRA_1PNPDE20090703_042053_000000582080_00248_38378_1877.N1	03-JUL-2009 04:20:53	Straylight	57.500	172	Gam Gru	3.0030	13100.	115	38378	No
39	GOM_TRA_1PNPDE20090703_043211_000000452080_00248_38378_1878.N1	03-JUL-2009 04:32:11	Bright	45.000	155	41Pi Sgr	2.9000	6600.0	90	38378	No
40	GOM_TRA_1PNPDE20090703_044420_000000482080_00248_38378_1879.N1	03-JUL-2009 04:44:20	Bright	47.500	168	17Zet Aql	2.9860	11000.	95	38378	No
41	GOM_TRA_1PNPDE20090703_045121_000000402080_00248_38378_1880.N1	03-JUL-2009 04:51:21	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	38378	No
42	GOM_TRA_1PNPDE20090703_045540_000000492080_00248_38378_1881.N1	03-JUL-2009 04:55:40	Bright	48.500	144	18Del Cyg	2.8600	11000.	97	38378	No
43	GOM_TRA_1PNPDE20090703_050247_000000442080_00248_38378_1882.N1	03-JUL-2009 05:02:47	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	38378	No
44	GOM_TRA_1PNPDE20090703_051012_000000432080_00248_38378_2054.N1	03-JUL-2009 05:10:12	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	38378	No
45	GOM_TRA_1PNPDE20090703_051151_000000372080_00248_38378_2055.N1	03-JUL-2009 05:11:51	Bright	37.000	110	37Del Cas	2.6780	8900.0	74	38378	No
46	GOM_TRA_1PNPDE20090703_051828_000000382080_00248_38378_2056.N1	03-JUL-2009 05:18:28	Bright	38.000	73	57Gam1And	2.2600	13100.	76	38378	No
47	GOM_TRA_1PNPDE20090703_052111_000000382080_00248_38378_2057.N1	03-JUL-2009 05:21:11	Twilight	38.000	173	4Bet Tri	3.0040	8900.0	76	38378	No
48	GOM_TRA_1PNPDE20090703_052535_000000432080_00248_38378_2058.N1	03-JUL-2009 05:25:35	Dark	42.500	50	13Alp Ari	2.0070	4250.0	85	38378	No
49	GOM_TRA_1PNPDE20090703_211812_000000422080_00258_38388_2515.N1	03-JUL-2009 21:18:12	Bright	41.500	155	41Pi Sgr	2.9000	6600.0	83	38388	No
50	GOM_TRA_1PNPDE20090703_213014_000000452080_00258_38388_2516.N1	03-JUL-2009 21:30:14	Bright	44.500	168	17Zet Aql	2.9860	11000.	89	38388	No

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



4. Overview of dark signal processing per product

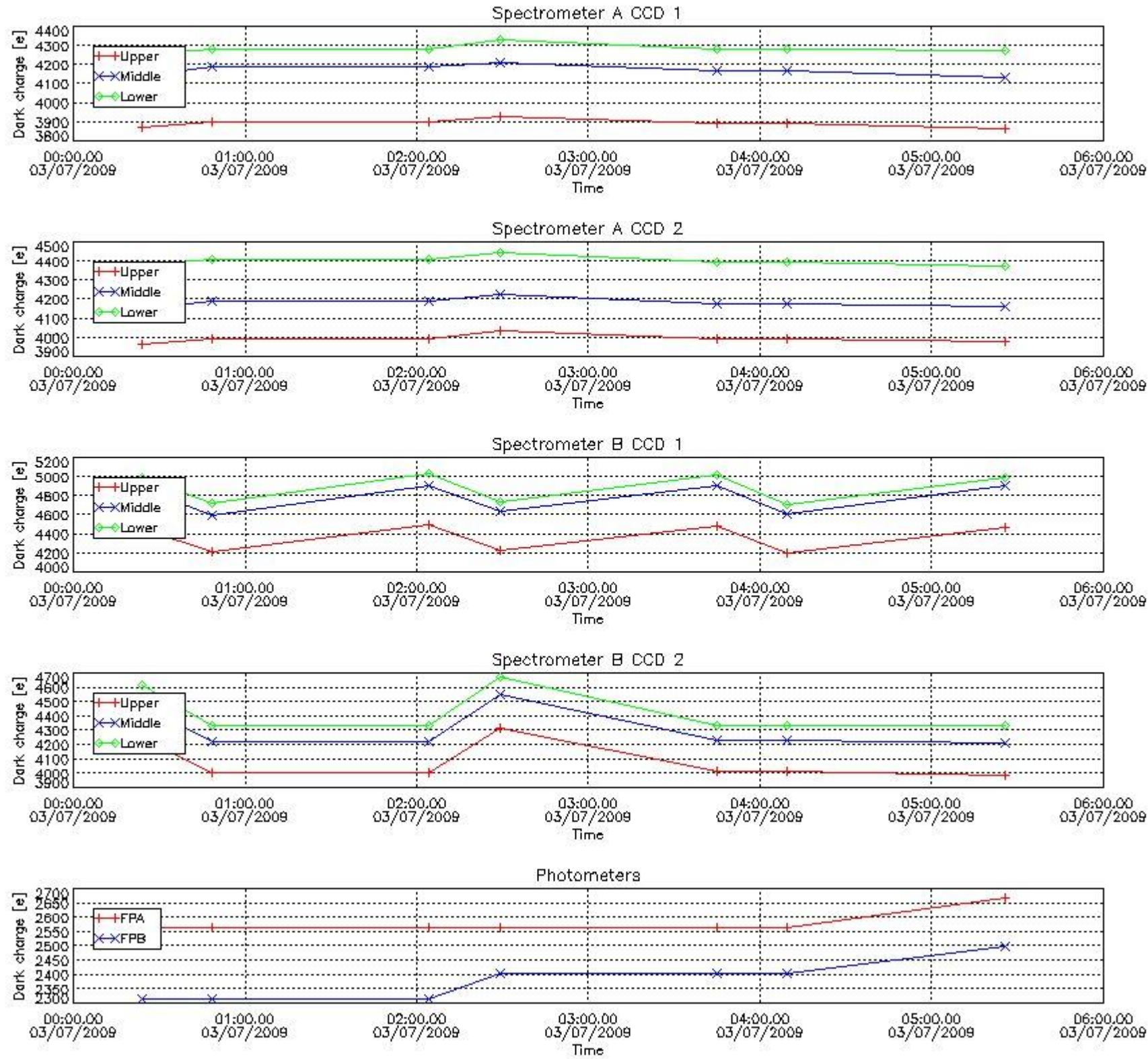
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20090703_211812_000000422080_00258_38388_2515.N1	DC map used
GOM_TRA_1PNPDE20090703_213014_000000452080_00258_38388_2516.N1	DC map used

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



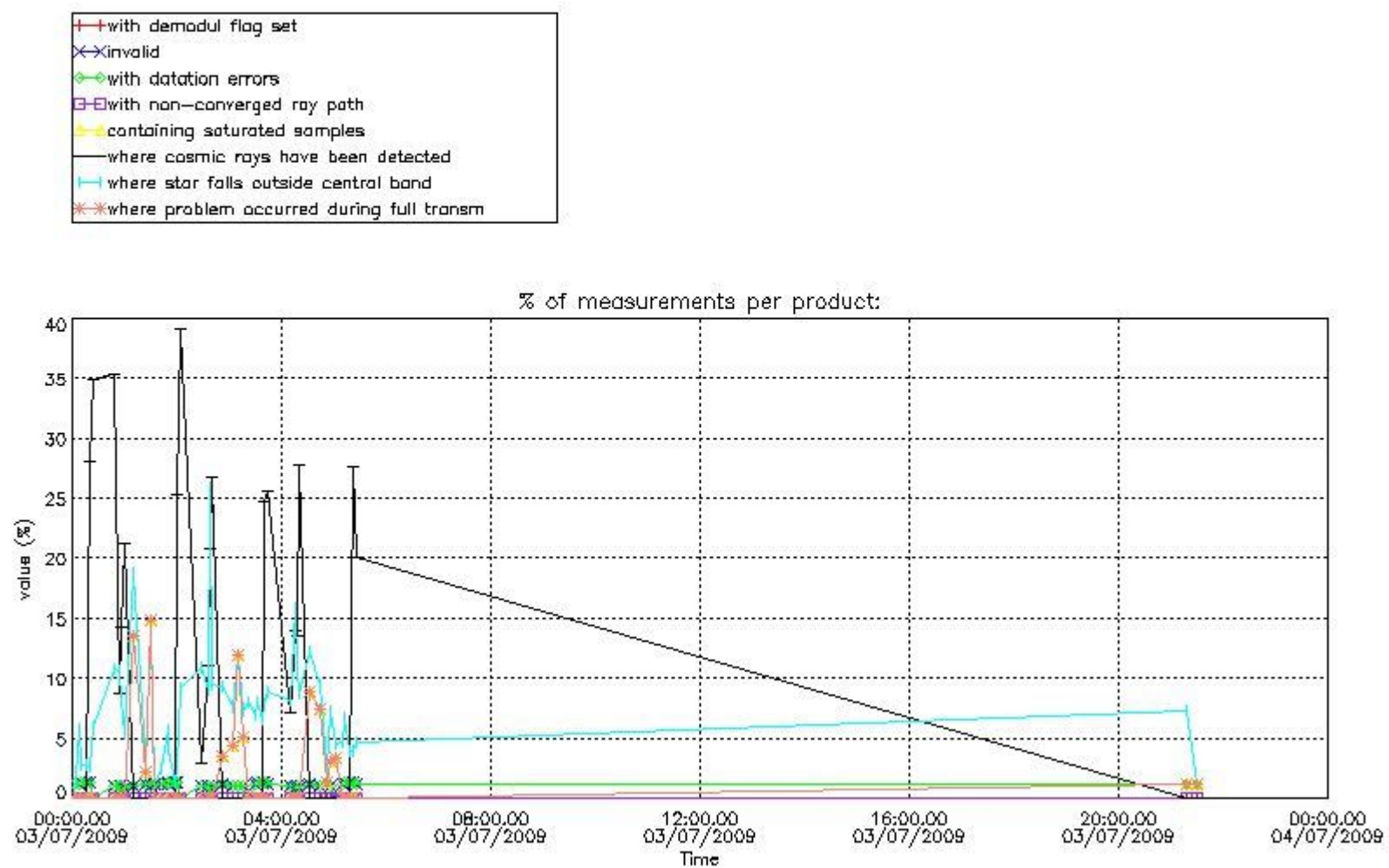
5. Demodulation flag and quality information monitoring

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.

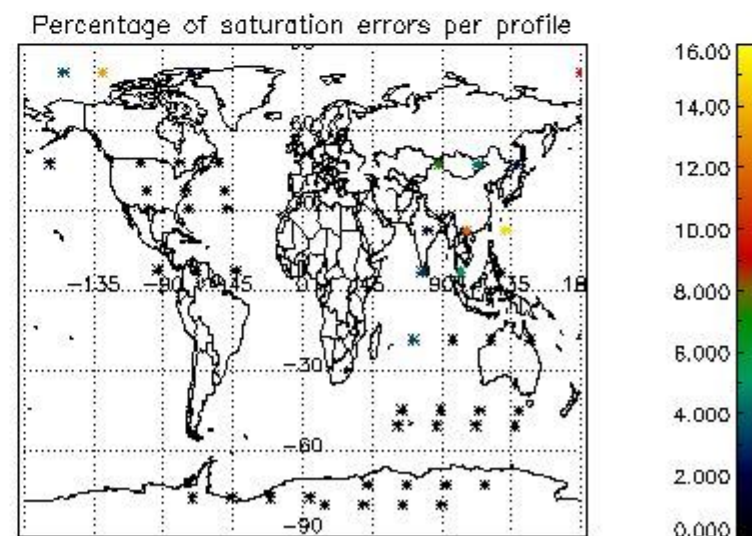
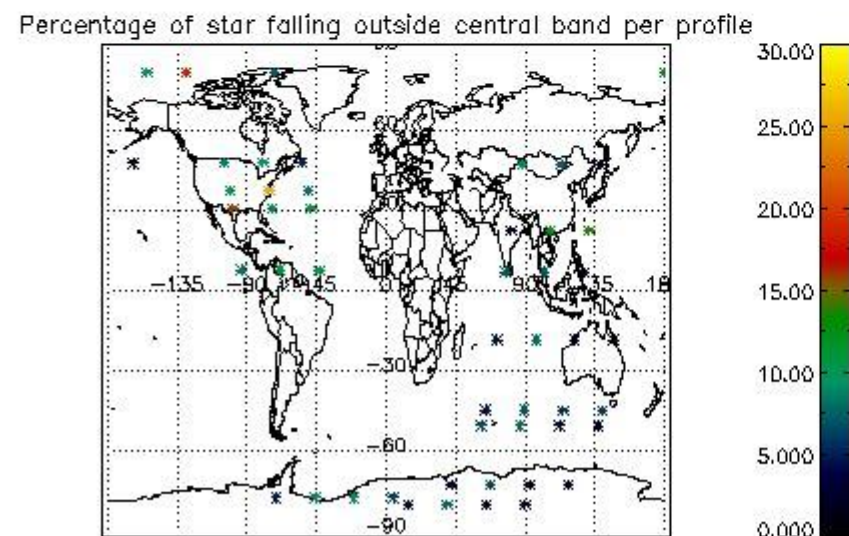
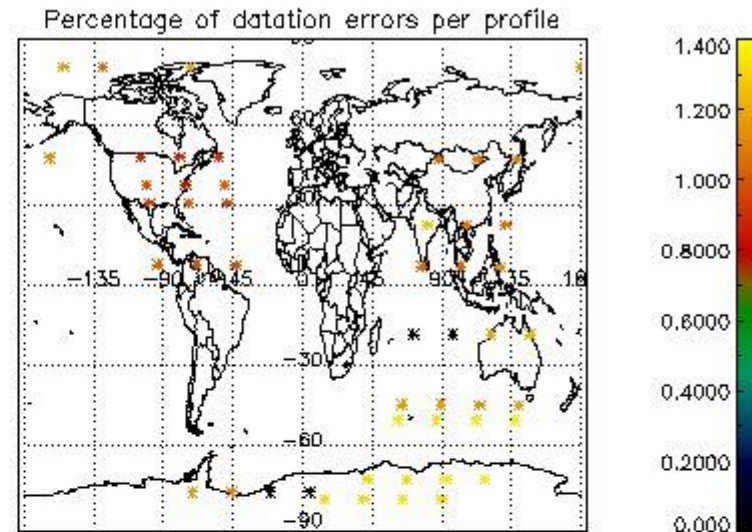
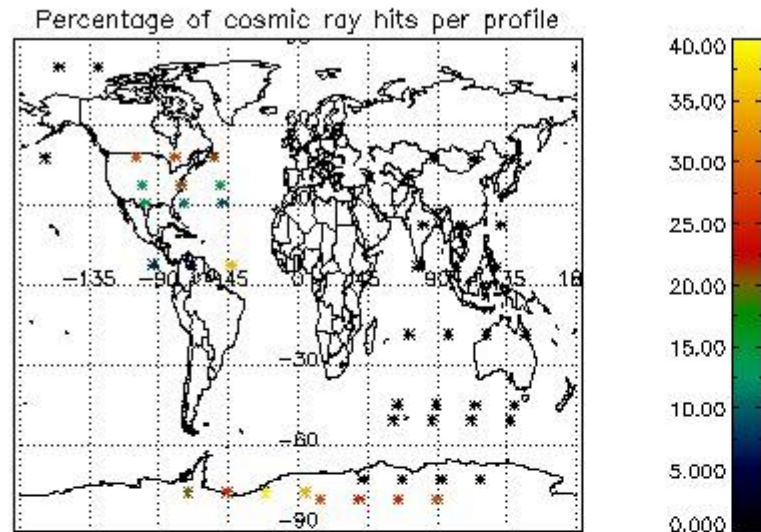
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	28.0000 %
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)



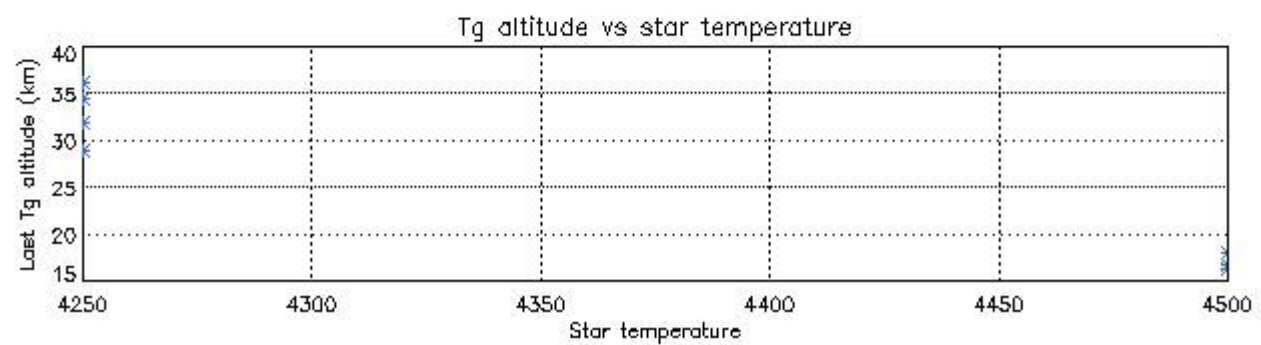
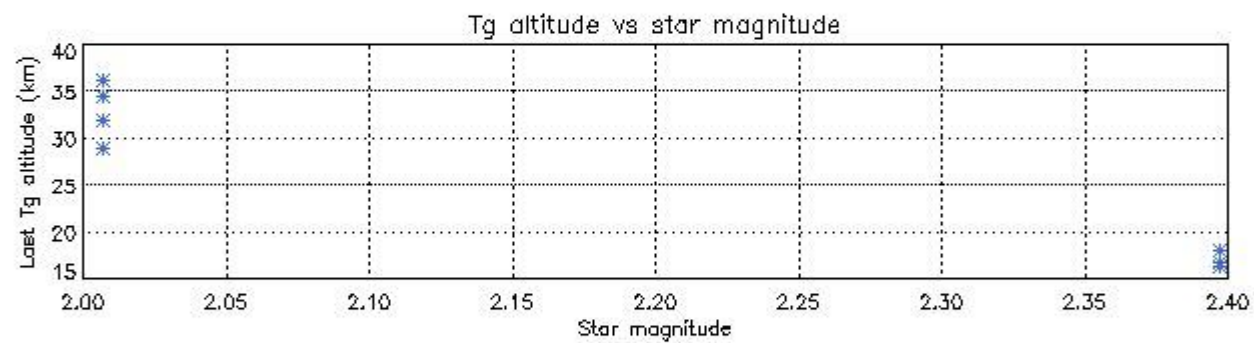
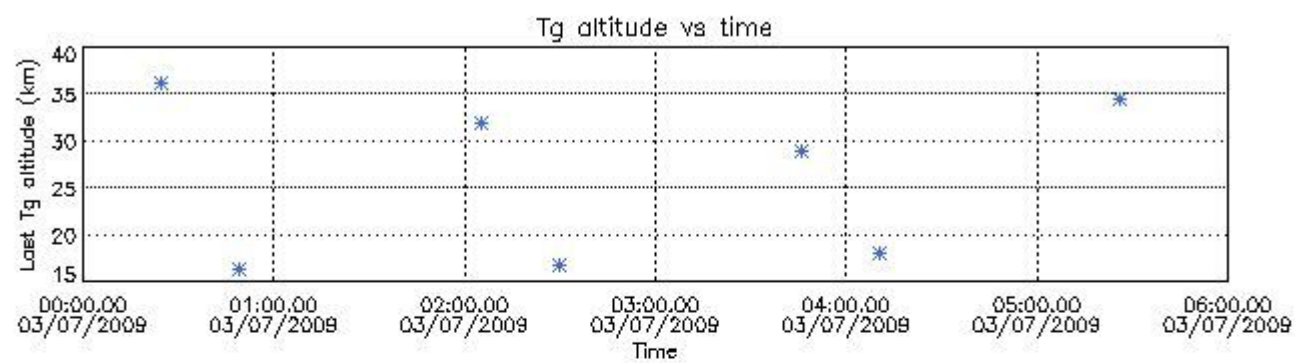
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	26.013	26.356	NaN
St. deviation:	8.7229	7.2447	NaN
Maximum:	36.054	38.781	NaN
Minimum:	16.377	14.003	NaN
Number of data:	7.0000	30.000	NaN

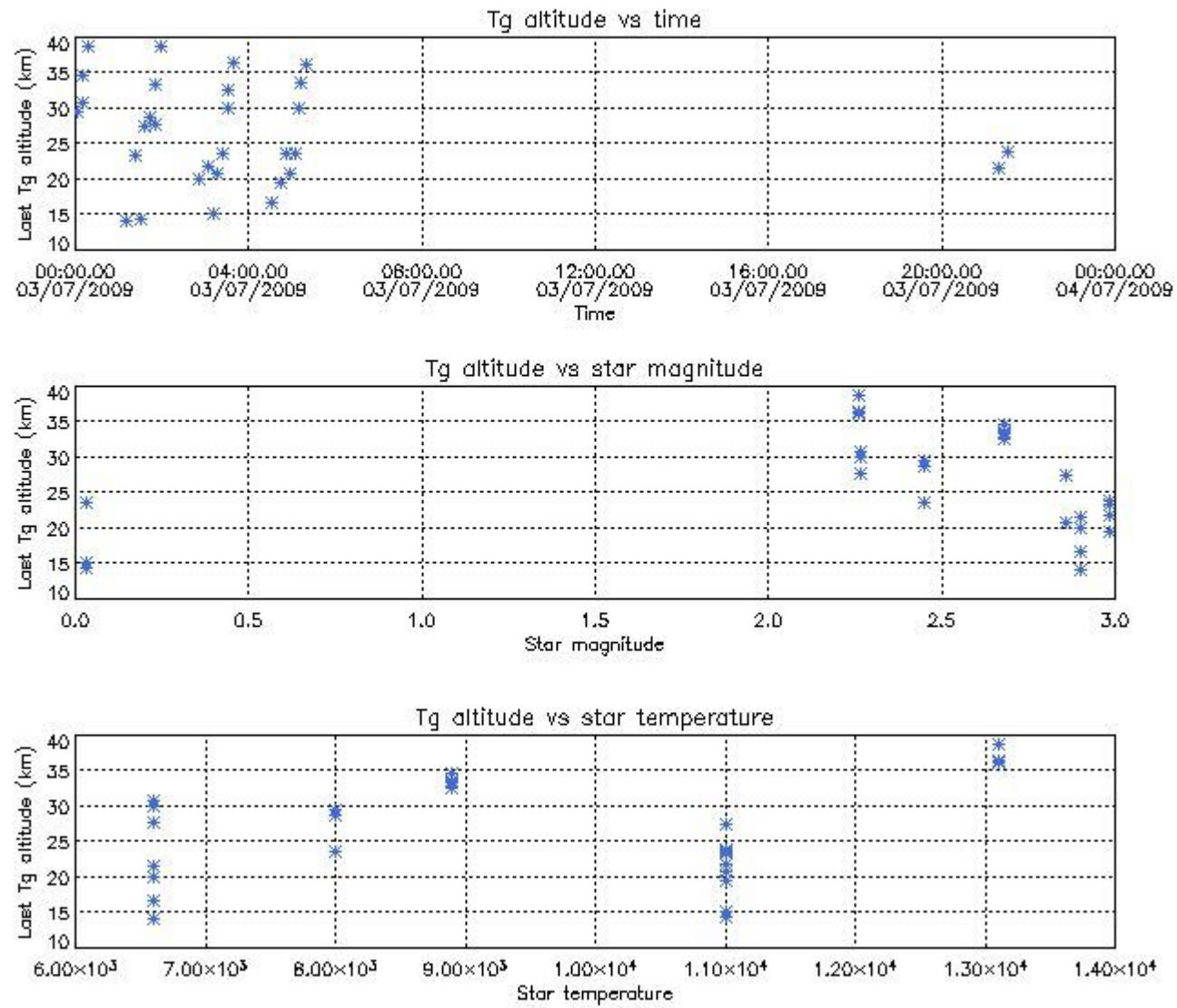
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

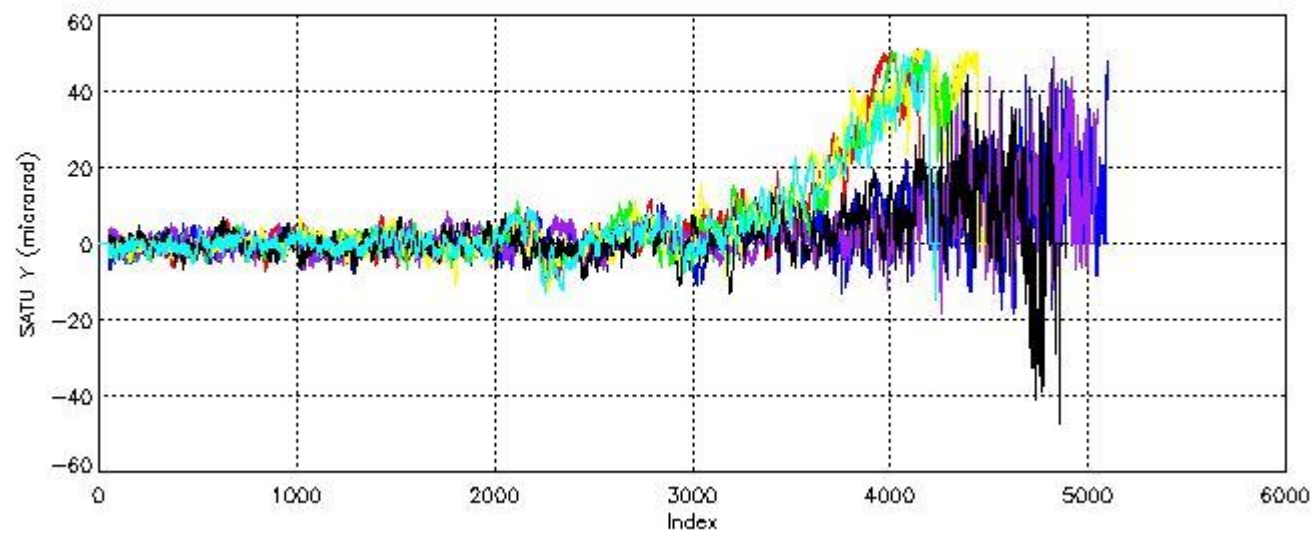
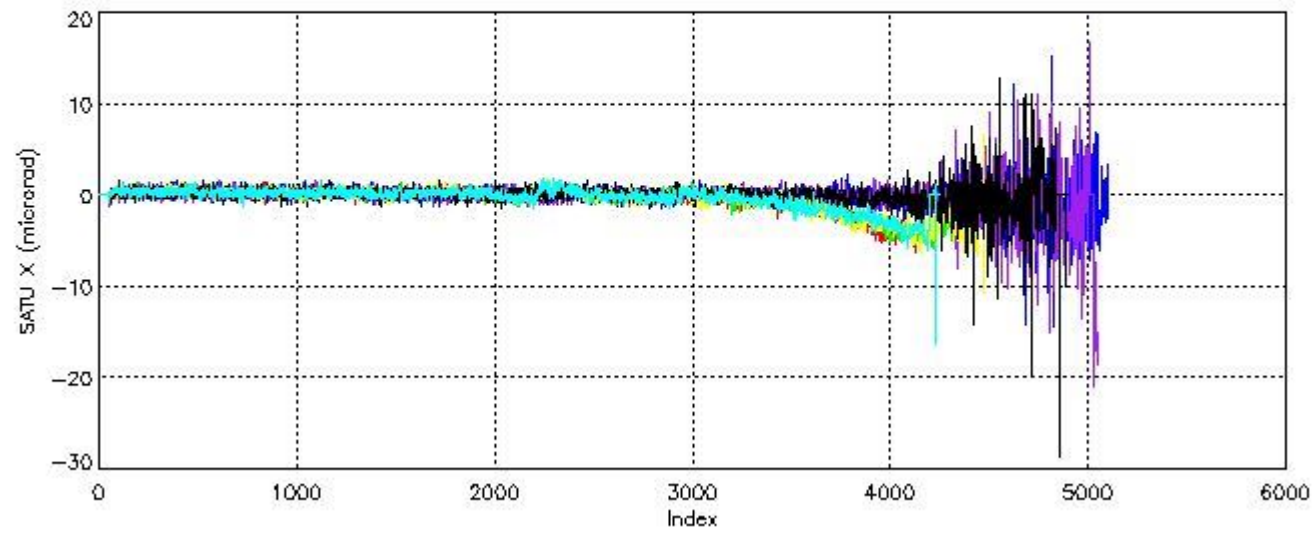


7. Star Acquisition and Tracking Unit (SATU)

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:	0.23756	-0.43319	0.27665	-0.70953
St. deviation:	0.37259	1.9535	1.0087	2.7709
Maximum:	1.6000	6.7000	7.2000	11.600
Minimum:	-1.3000	-7.2000	-6.1000	-13.500

Number of data:	8150.0	8150.0	31950.	31950.
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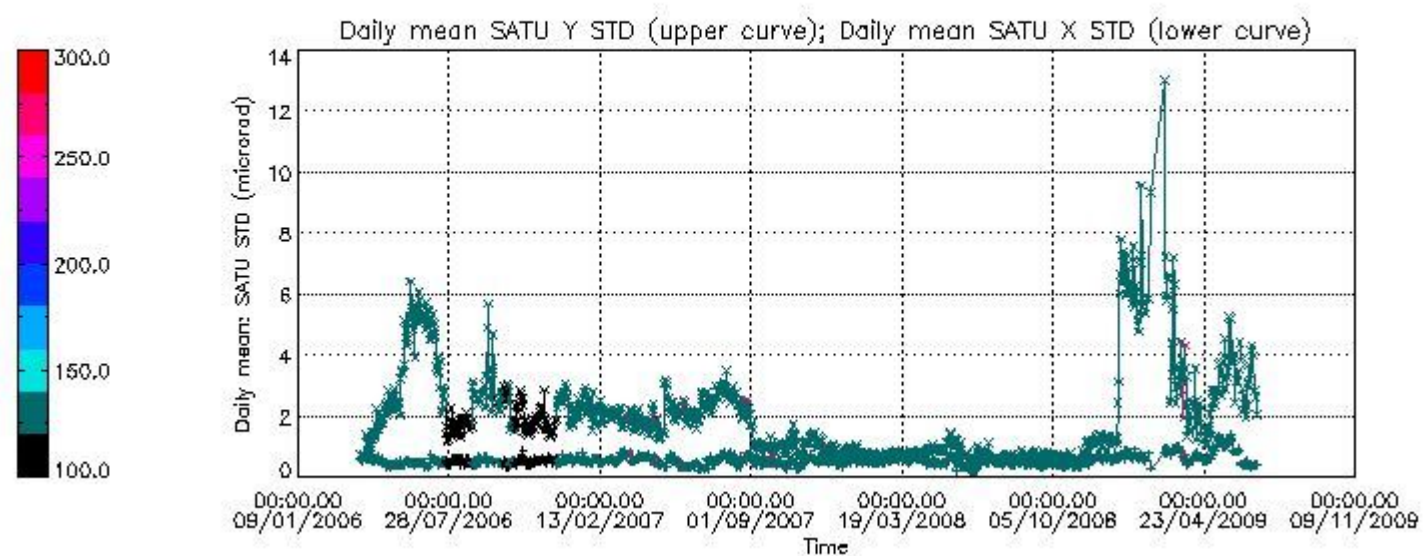
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

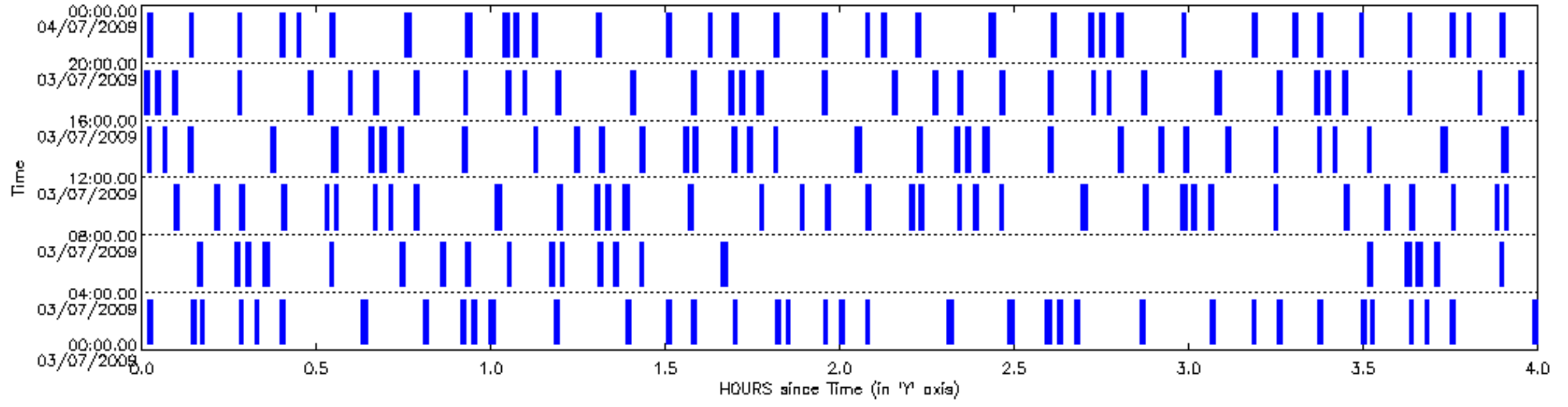
Lower curve: STD of SATU X axis

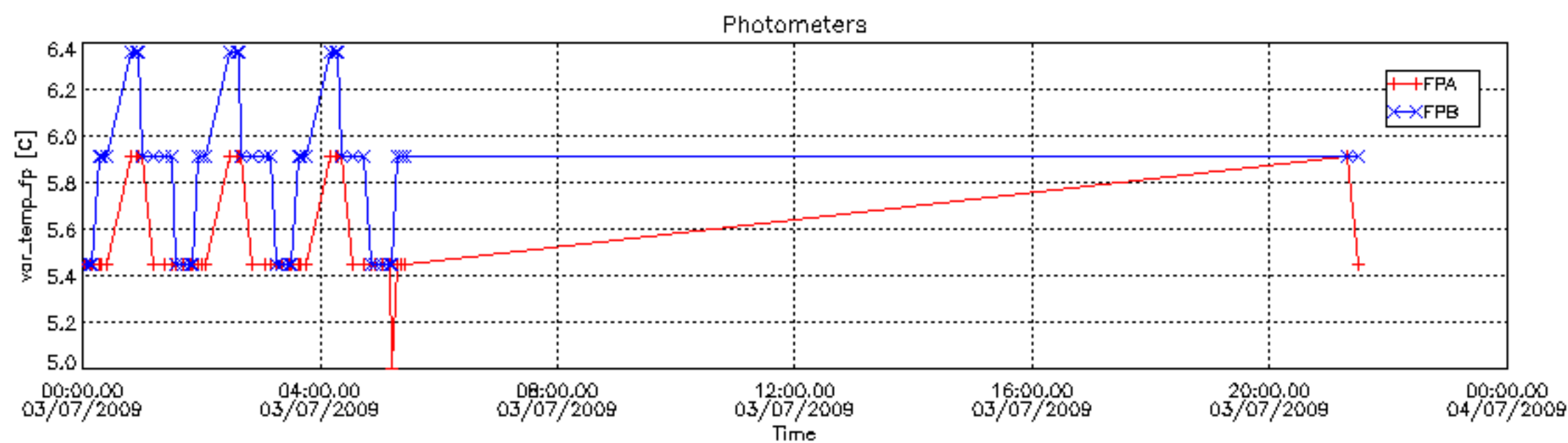
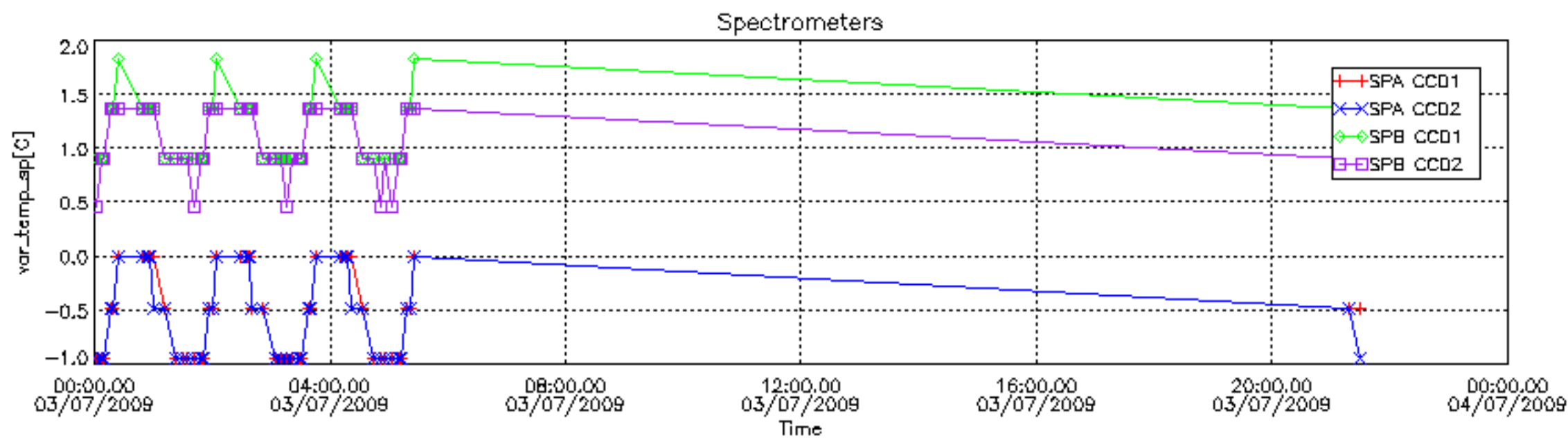


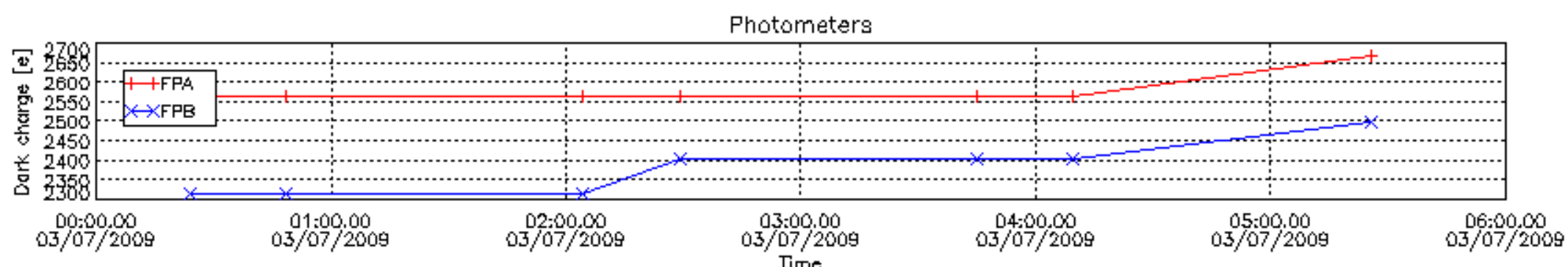
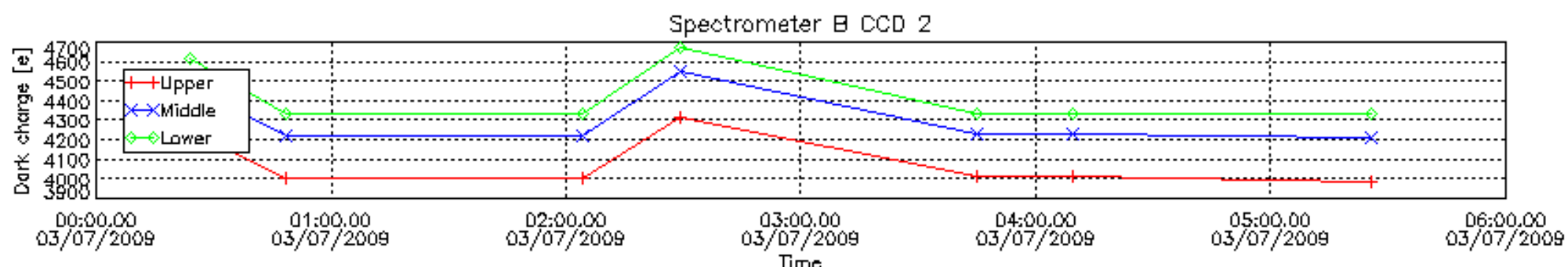
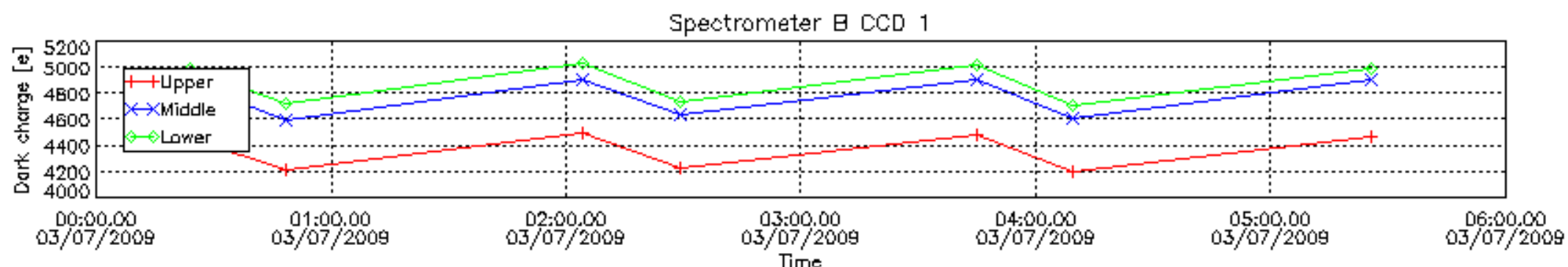
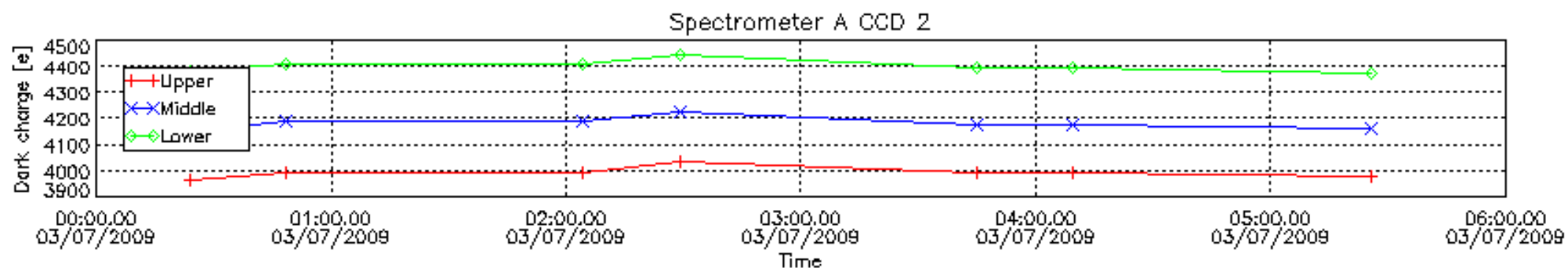
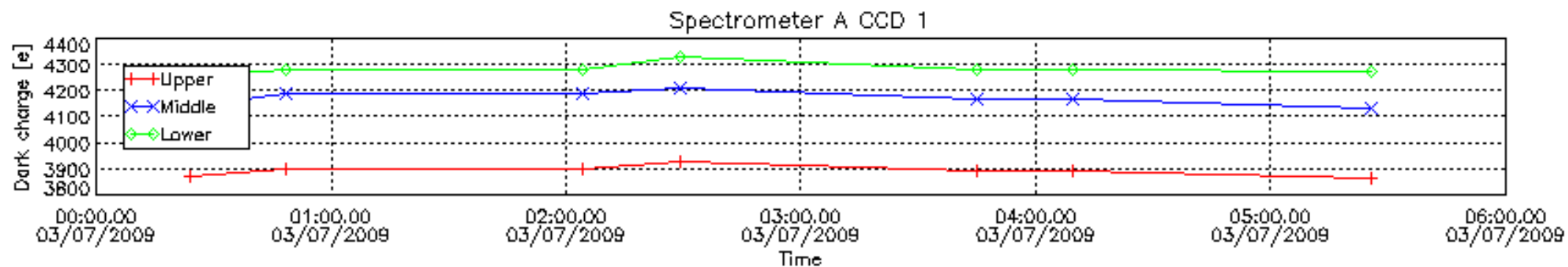
8. Auxiliary Data Files used for the production reported in section 2.4

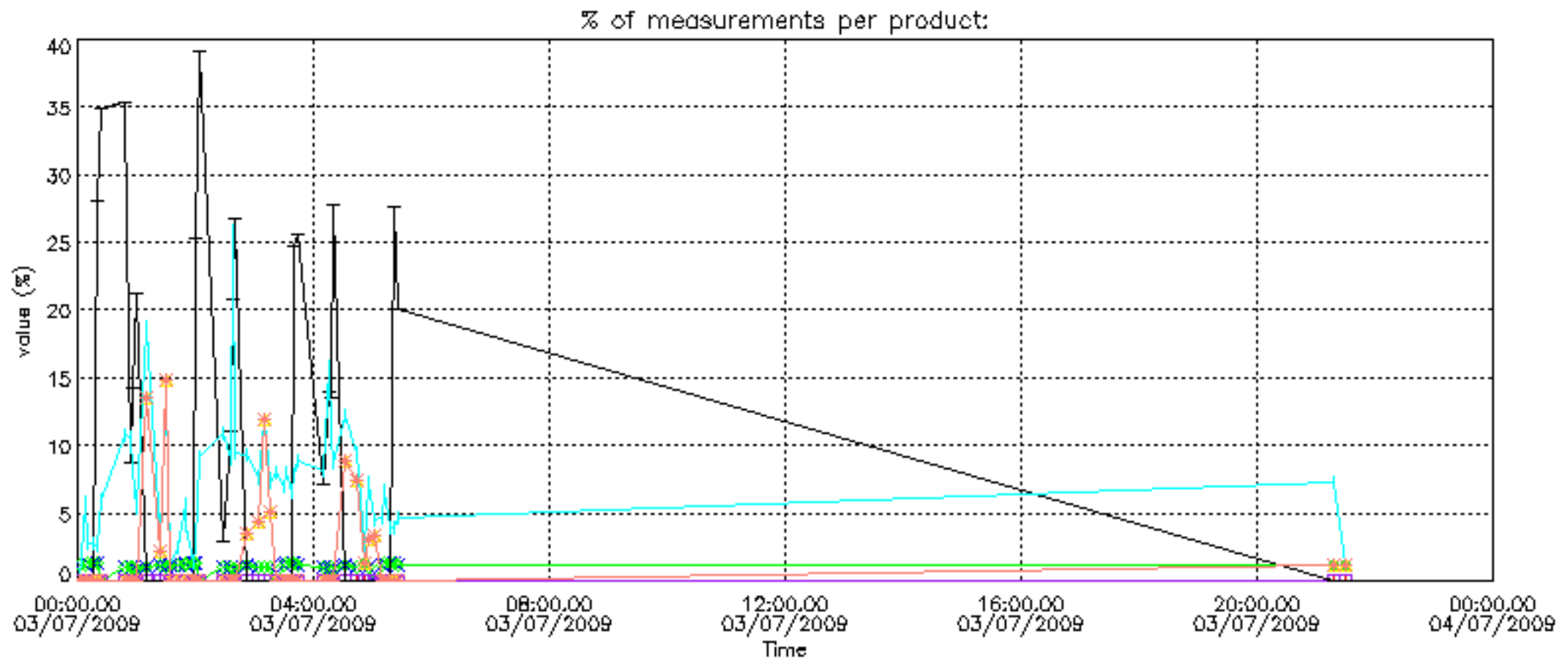
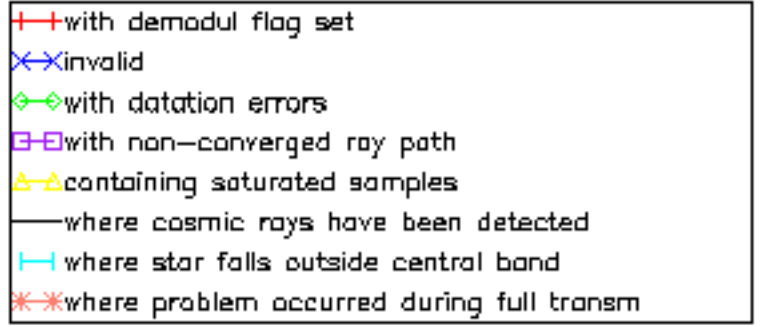
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	03-JUL-2009 00:01:01
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090701_074759_20090629_000000_20100101_000000	1	03-JUL-2009 00:01:01
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	03-JUL-2009 00:01:01
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-JUL-2009 00:01:01
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	03-JUL-2009 00:01:01
ECMWF_FILE	AUX_ECF_AXNECM20090702_064112_20090702_210000_20090703_090000	1	03-JUL-2009 00:01:01
ECMWF_FILE	AUX_ECF_AXNECM20090702_184111_20090703_030000_20090703_150000	30	03-JUL-2009 03:29:37
ECMWF_FILE	AUX_ECF_AXNECM20090703_064113_20090703_210000_20090704_090000	49	03-JUL-2009 21:18:12
OPTIONAL_ECMWF_FILE	MISSING	1	03-JUL-2009 00:01:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090702_205908_000063762080_00243_38373_8272.N1	1	03-JUL-2009 00:01:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090702_225042_000057382080_00244_38374_8273.N1	7	03-JUL-2009 00:48:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090703_003139_000054192080_00245_38375_8274.N1	21	03-JUL-2009 02:28:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090703_020717_000041442080_00246_38376_8275.N1	30	03-JUL-2009 03:29:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090703_032140_000060572080_00247_38377_8276.N1	44	03-JUL-2009 05:10:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090703_210418_000041442080_00258_38388_8278.N1	49	03-JUL-2009 21:18:12

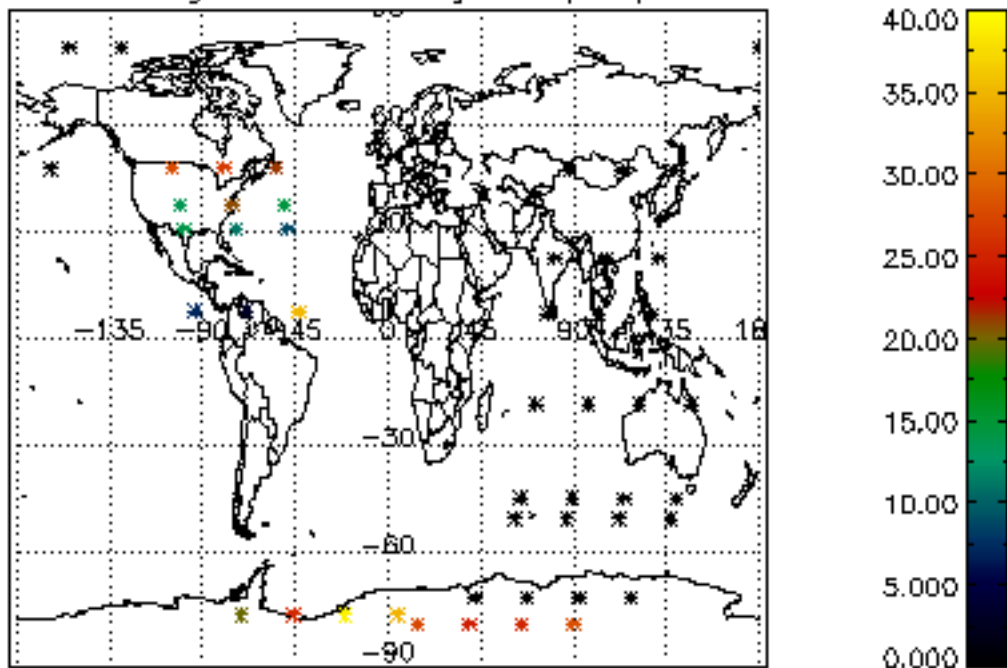




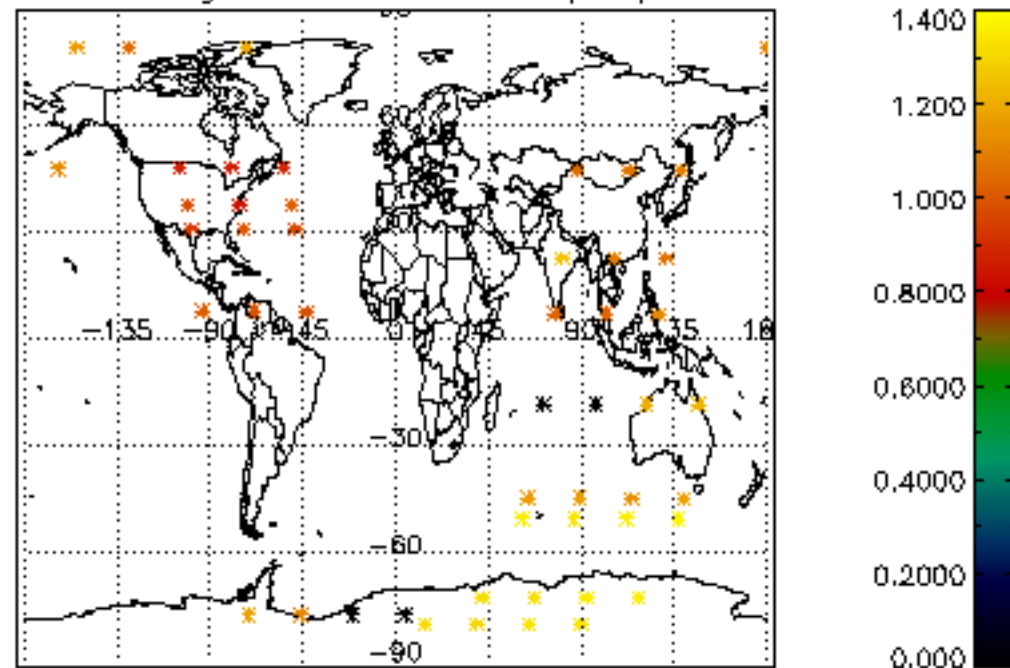




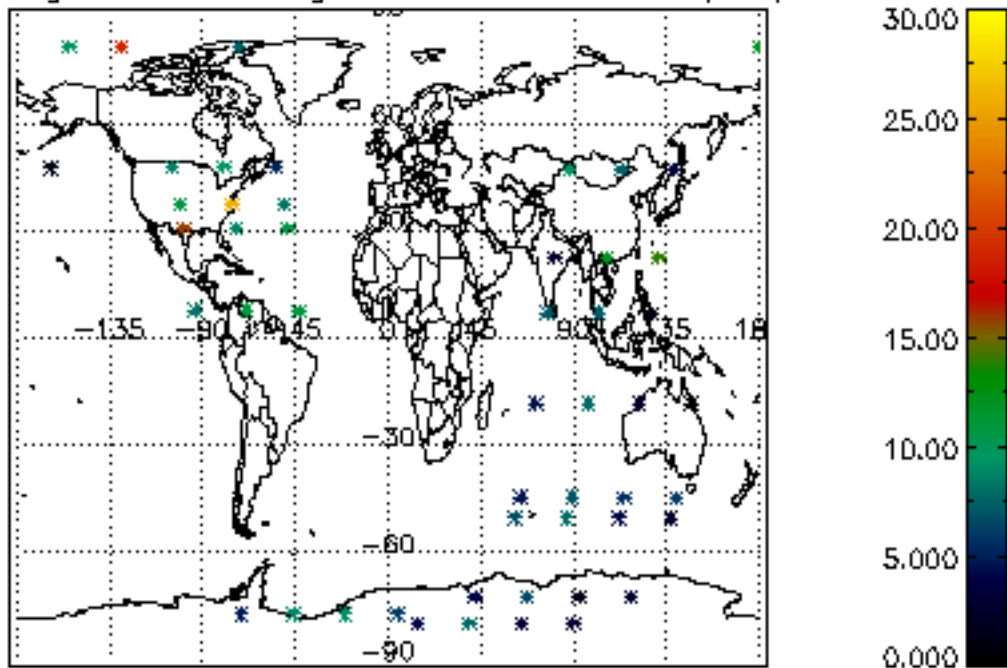
Percentage of cosmic ray hits per profile



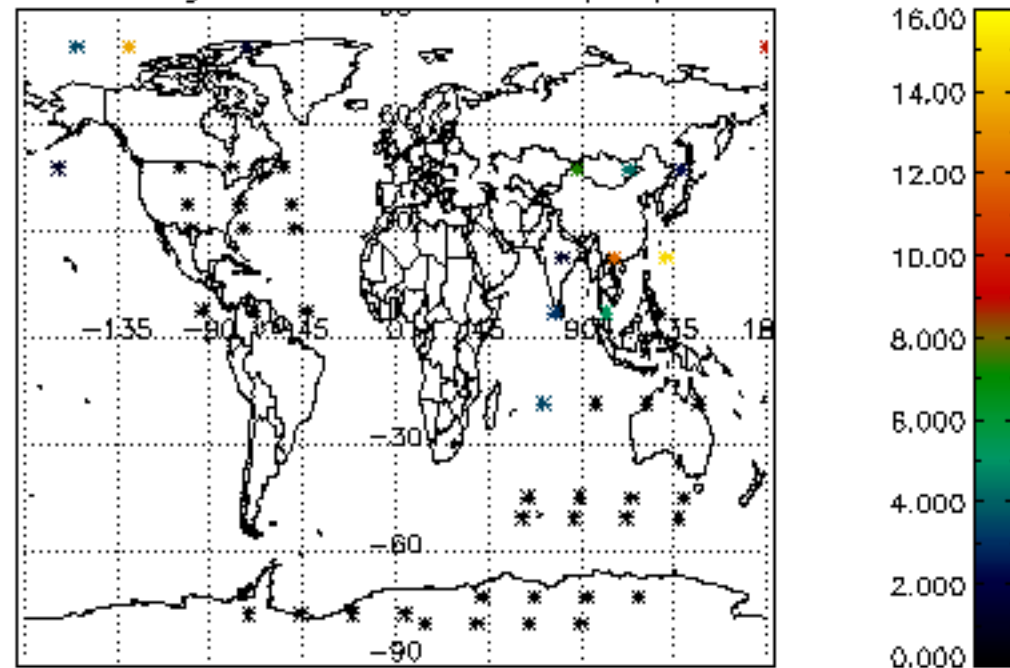
Percentage of datation errors per profile



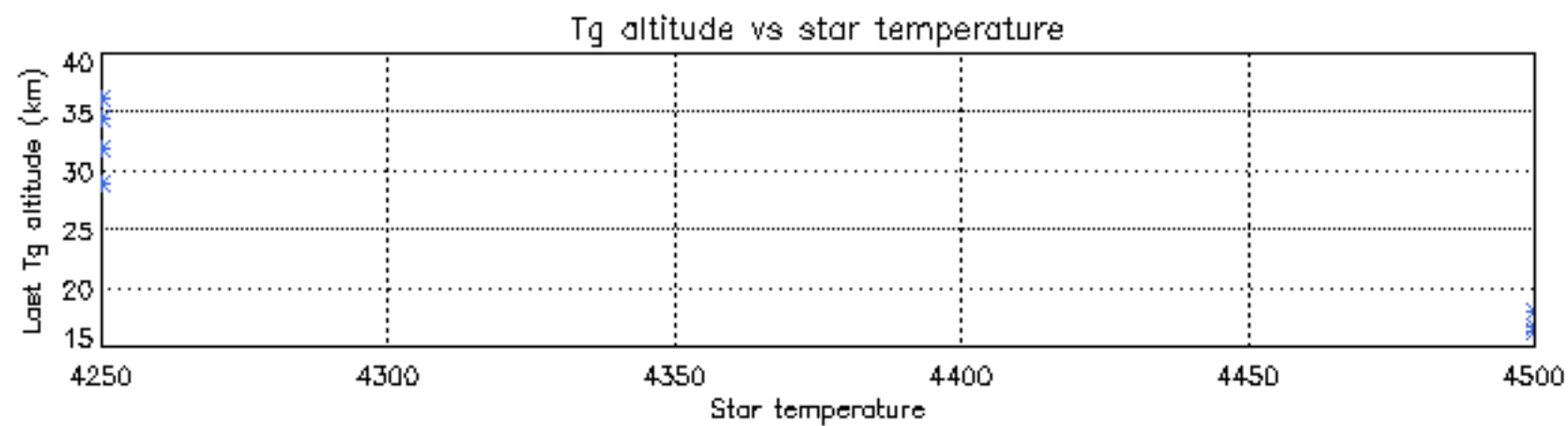
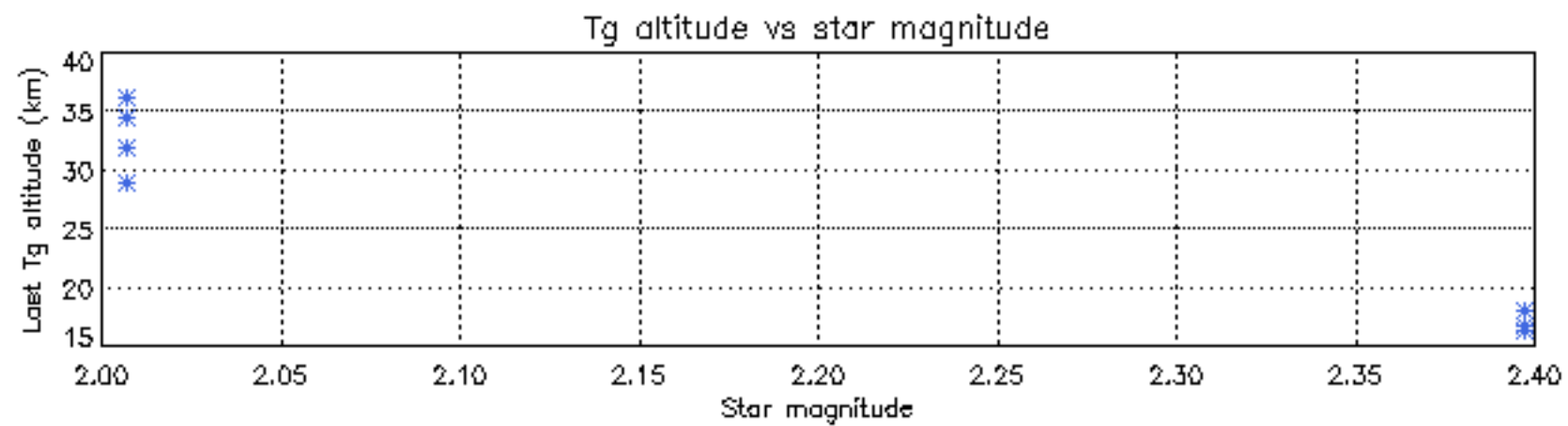
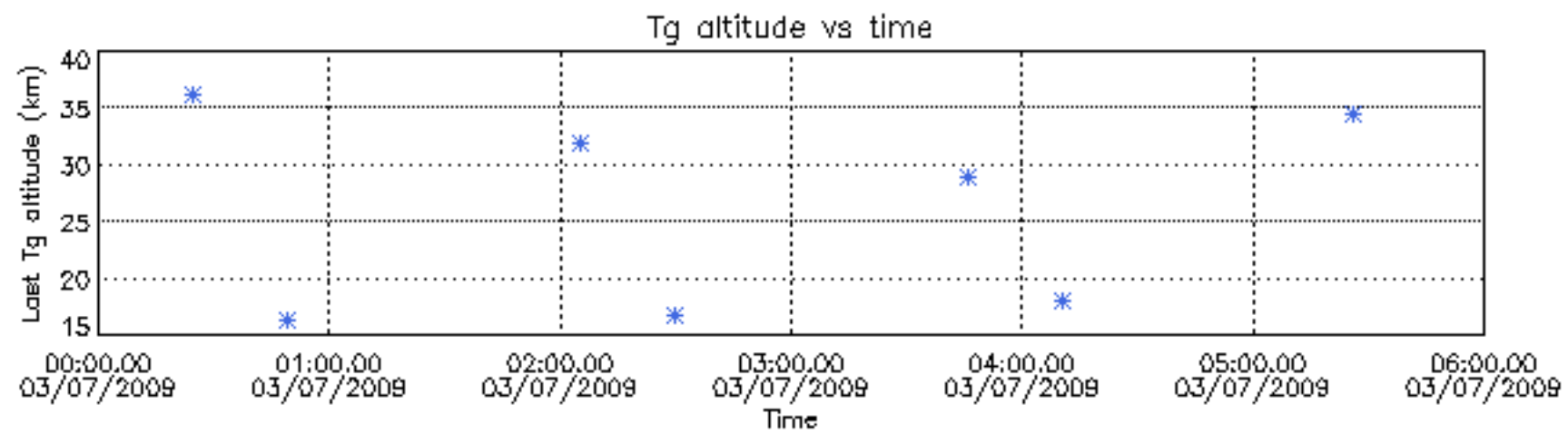
Percentage of star falling outside central band per profile



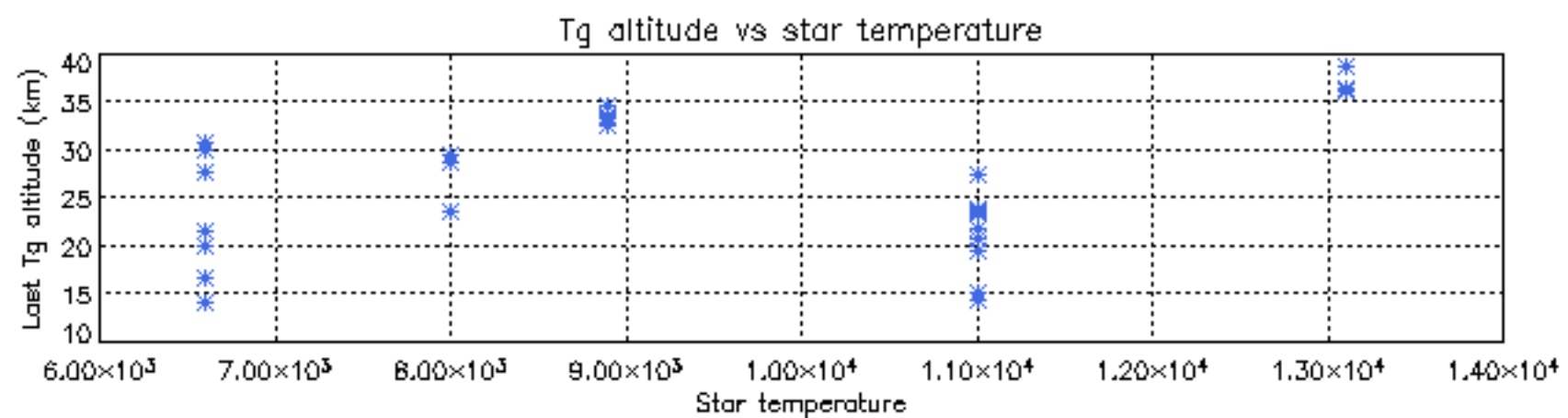
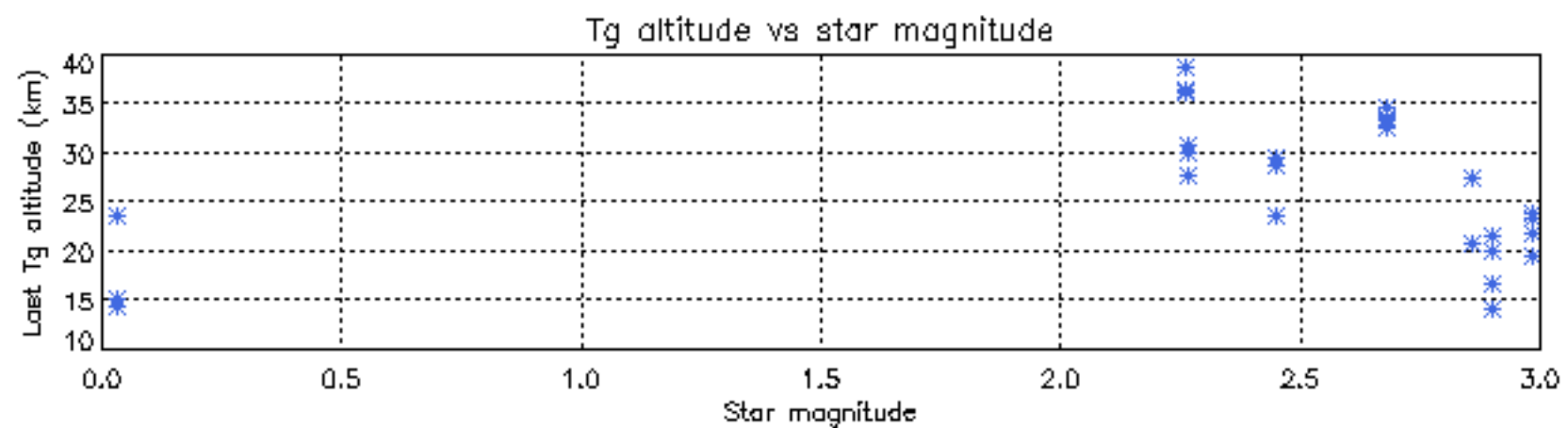
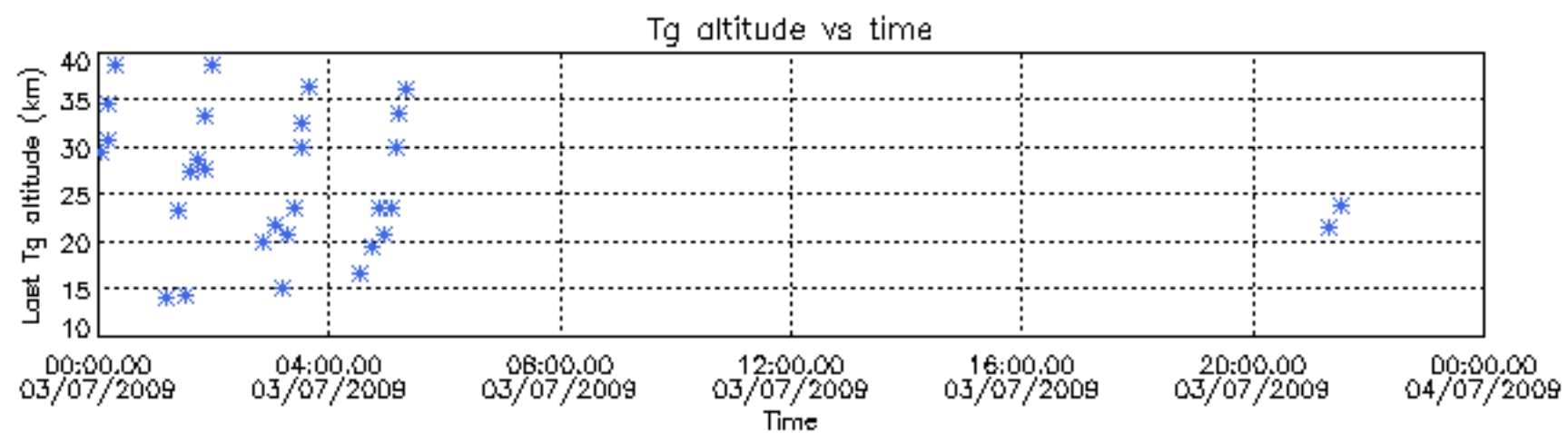
Percentage of saturation errors per profile

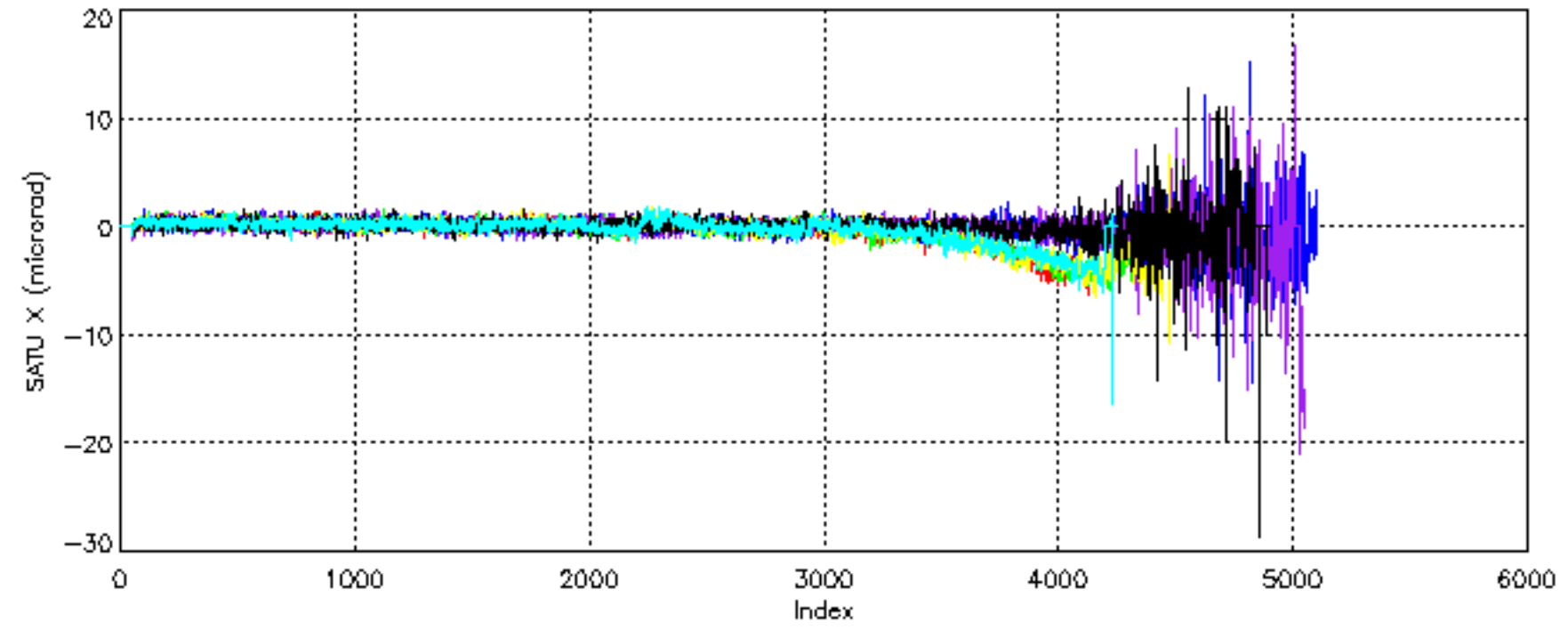


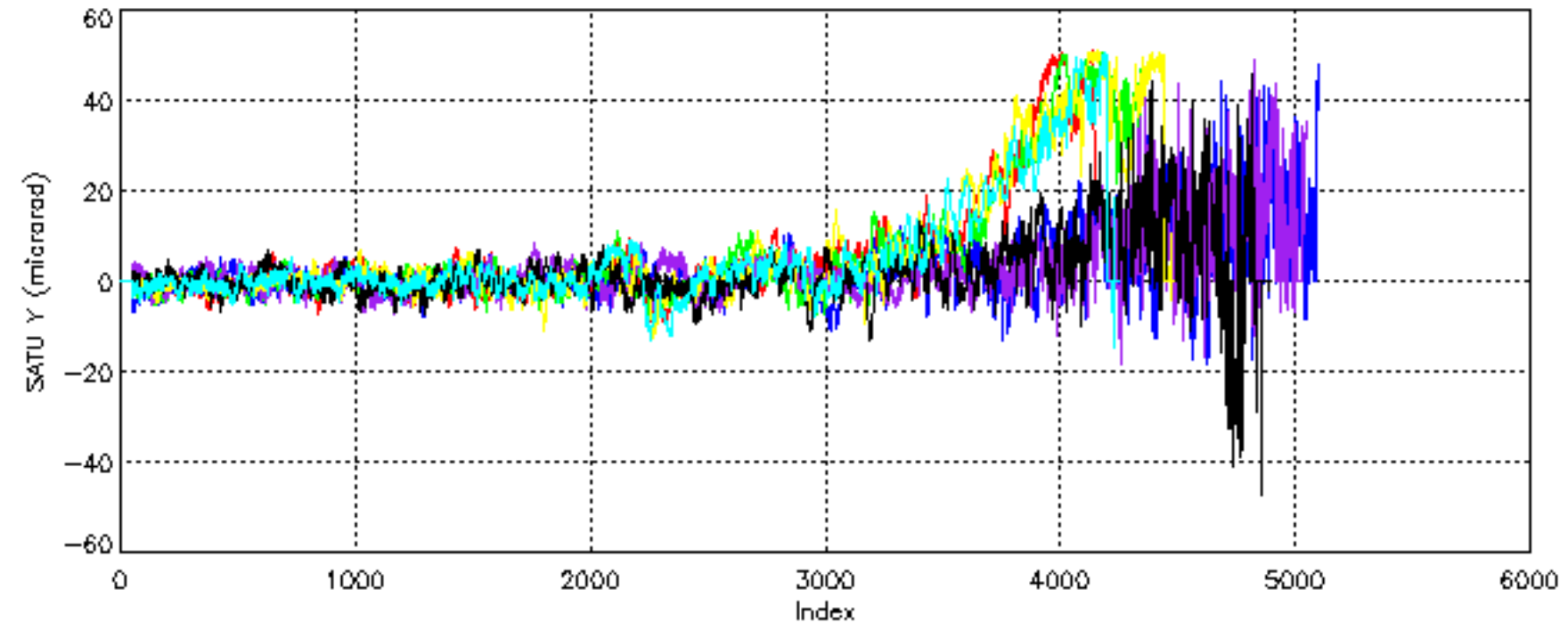
Tangent altitude at which the star is lost

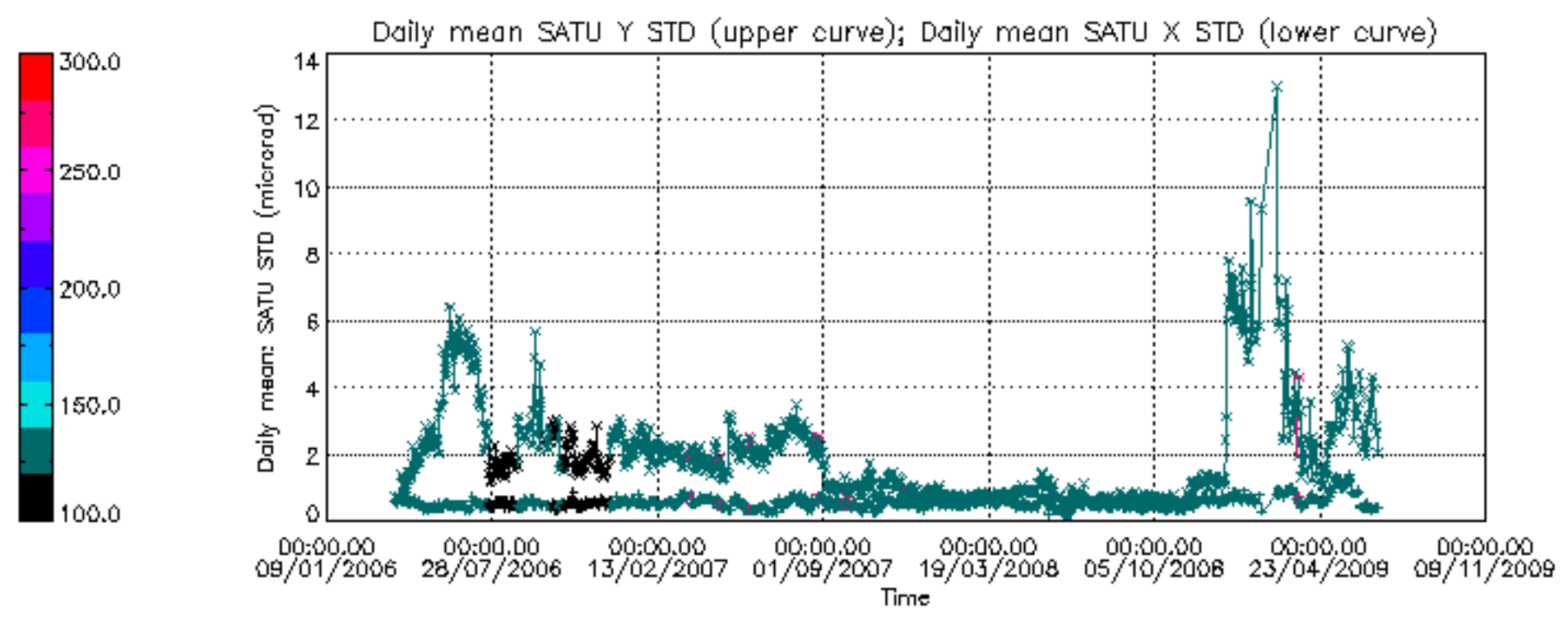


Tangent altitude at which the star is lost









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3; 501.4; 02-JUL-2009 01:26:10; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38362
4; 616.8; 02-JUL-2009 01:28:06; Dark ; 59.0; 31; Alp Gru ; 1.73; 15200;occ; 118; 0;38362
5; 792.6; 02-JUL-2009 01:31:01; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38362
6; 1483.7; 02-JUL-2009 01:42:33; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;38362
7; 2224.2; 02-JUL-2009 01:54:53; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38362
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9; 2909.6; 02-JUL-2009 02:06:18; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38362
10; 3333.8; 02-JUL-2009 02:13:23; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38362
11; 3777.3; 02-JUL-2009 02:20:46; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;38362
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3; 488.0; 01-JUL-2009 01:57:34; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;38348
4; 604.2; 01-JUL-2009 01:59:30; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38348
5; 777.8; 01-JUL-2009 02:02:24; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;38348
6; 1481.2; 01-JUL-2009 02:14:07; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;38348
7; 2231.3; 01-JUL-2009 02:26:37; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38348
8; 2651.1; 01-JUL-2009 02:33:37; Bright; 47.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 95; 0;38348
9; 2921.8; 01-JUL-2009 02:38:08; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38348
10; 3343.1; 01-JUL-2009 02:45:09; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38348
11; 3784.6; 01-JUL-2009 02:52:31; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;38348
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2; -1769.2; 01-JUL-2009 03:00:33; Bright; 34.5; 73; 57Gam1And ; 2.26; 13100;occ; 69; 0;38348
3; -1610.9; 01-JUL-2009 03:03:11; Dark ; 35.0; 173; 4Bet Tri ; 3.00; 8900;occ; 70; 0;38348
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7; 489.1; 01-JUL-2009 03:38:11; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38349
8; 605.3; 01-JUL-2009 03:40:07; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38349
9; 778.8; 01-JUL-2009 03:43:01; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38349
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11; 2230.9; 01-JUL-2009 04:07:13; Bright; 51.0; 168; 17Zet Aql ; 2.99; 11000;occ; 102; 0;38349
12; 2650.9; 01-JUL-2009 04:14:13; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;38349
13; 2920.9; 01-JUL-2009 04:18:43; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38349
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3; -1769.3; 01-JUL-2009 04:41:09; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;38349
4; -1610.7; 01-JUL-2009 04:43:47; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38349
5; -1355.2; 01-JUL-2009 04:48:03; Dark ; 39.5; 50; 13Alp Ari ; 2.01; 4250;occ; 79; 0;38349
6; -530.7; 01-JUL-2009 05:01:47; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38349
7; 101.2; 01-JUL-2009 05:12:19; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;38350
8; 489.9; 01-JUL-2009 05:18:48; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38350
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11; 1481.8; 01-JUL-2009 05:35:20; Bright; 43.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 86; 0;38350
12; 2230.2; 01-JUL-2009 05:47:48; Bright; 49.5; 168; 17Zet Aql ; 2.99; 11000;occ; 99; 0;38350
13; 2650.4; 01-JUL-2009 05:54:48; Bright; 46.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 92; 0;38350
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2; 2225.6; 01-JUL-2009 20:53:07; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38359
3; 2646.2; 01-JUL-2009 21:00:07; Bright; 40.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 81; 0;38359
4; 2912.3; 01-JUL-2009 21:04:34; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38359
5; 3335.3; 01-JUL-2009 21:11:37; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38359
6; 3778.7; 01-JUL-2009 21:19:00; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38359
7; 3874.0; 01-JUL-2009 21:20:35; Bright; 34.5; 110; 37Del Cas ; 2.68; 8900;occ; 69; 0;38359
8; 4265.9; 01-JUL-2009 21:27:07; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38359
9; 4425.8; 01-JUL-2009 21:29:47; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38359
10; 4684.1; 01-JUL-2009 21:34:05; Dark ; 38.0; 50; 13Alp Ari ; 2.01; 4250;occ; 76; 0;38359
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 3; 499.5; 01-JUL-2009 22:04:57; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38360
 4; 615.0; 01-JUL-2009 22:06:52; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38360
 5; 790.6; 01-JUL-2009 22:09:48; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38360
 6; 1483.4; 01-JUL-2009 22:21:21; Bright; 41.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 83; 0;38360
 7; 2225.1; 01-JUL-2009 22:33:42; Bright; 48.5; 168; 17Zet Aql ; 2.99; 11000;occ; 97; 0;38360
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 9; 2911.6; 01-JUL-2009 22:45:09; Bright; 48.0; 144; 18Del Cyg ; 2.86; 11000;occ; 96; 0;38360
10; 3334.6; 01-JUL-2009 22:52:12; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38360
11; 3778.2; 01-JUL-2009 22:59:35; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38360
12; 3873.5; 01-JUL-2009 23:01:11; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38360
13; 4265.9; 01-JUL-2009 23:07:43; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38360
14; 4426.0; 01-JUL-2009 23:10:23; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38360
15; 4684.2; 01-JUL-2009 23:14:41; Dark ; 39.0; 50; 13Alp Ari ; 2.01; 4250;occ; 78; 0;38360
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 3; 500.5; 01-JUL-2009 23:45:34; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38361
 4; 616.0; 01-JUL-2009 23:47:29; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38361
 5; 791.5; 01-JUL-2009 23:50:25; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38361
 6; 1483.5; 02-JUL-2009 00:01:57; Bright; 40.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 80; 0;38361
 7; 2224.7; 02-JUL-2009 00:14:18; Bright; 45.0; 168; 17Zet Aql ; 2.99; 11000;occ; 90; 0;38361
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 9; 2910.7; 02-JUL-2009 00:25:44; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38361
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13; 4265.7; 02-JUL-2009 00:48:19; Bright; 35.5; 73; 57Gam1And ; 2.26; 13100;occ; 71; 0;38361
14; 4425.9; 02-JUL-2009 00:50:59; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38361
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 8; 491.1; 01-JUL-2009 06:59:25; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38351
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10; 781.0; 01-JUL-2009 07:04:15; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38351
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 4; 3340.9; 01-JUL-2009 07:46:55; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38351
 5; 3782.9; 01-JUL-2009 07:54:17; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38351
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9; 3296.0; 06-JUL-2009 01:46:53; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38419
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13; 4430.0; 06-JUL-2009 02:05:47; Dark ; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;38419
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4; 667.1; 06-JUL-2009 02:43:40; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38420
5; 850.8; 06-JUL-2009 02:46:43; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38420
6; 2197.9; 06-JUL-2009 03:09:10; Bright; 47.5; 168; 17Zet Aql ; 2.99; 11000;occ; 95; 0;38420
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8; 2864.0; 06-JUL-2009 03:20:16; Bright; 42.5; 144; 18Del Cyg ; 2.86; 11000;occ; 85; 0;38420
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3; -1775.2; 06-JUL-2009 03:43:33; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38420
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8; 557.6; 06-JUL-2009 04:22:26; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38421
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10; 851.7; 06-JUL-2009 04:27:20; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;38421
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13; 2863.3; 06-JUL-2009 05:00:52; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;38421
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8; 558.2; 06-JUL-2009 06:03:03; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38422
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13; 2862.3; 06-JUL-2009 06:41:27; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;38422
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4; 3288.8; 06-JUL-2009 20:13:21; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;38430
5; 3738.7; 06-JUL-2009 20:20:51; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;38430
6; 3850.5; 06-JUL-2009 20:22:42; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38430
7; 4259.5; 06-JUL-2009 20:29:31; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;38430
8; 4430.8; 06-JUL-2009 20:32:23; Dark ; 41.0; 173; 4Bet Tri ; 3.00; 8900;occ; 82; 0;38430
9; 4710.9; 06-JUL-2009 20:37:03; Dark ; 46.0; 50; 13Alp Ari ; 2.01; 4250;occ; 92; 0;38430
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5; 861.1; 06-JUL-2009 21:13:29; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38431
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6; 3853.0; 06-JUL-2009 08:38:33; Bright; 36.5; 110; 37Del Cas ; 2.68; 8900;occ; 73; 0;38423
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8; 4430.2; 06-JUL-2009 08:48:11; Dark ; 40.0; 173; 4Bet Tri ; 3.00; 8900;occ; 80; 0;38423
9; 4708.1; 06-JUL-2009 08:52:49; Dark ; 47.5; 50; 13Alp Ari ; 2.01; 4250;occ; 95; 0;38423
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4; 3292.5; 06-JUL-2009 10:09:49; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38424
5; 3742.5; 06-JUL-2009 10:17:19; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38424
6; 3852.7; 06-JUL-2009 10:19:09; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38424
7; 4260.1; 06-JUL-2009 10:25:56; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;38424
8; 4430.2; 06-JUL-2009 10:28:47; Dark ; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;38424
9; 4708.7; 06-JUL-2009 10:33:25; Dark ; 45.0; 50; 13Alp Ari ; 2.01; 4250;occ; 90; 0;38424
10; 5014.0; 06-JUL-2009 10:38:30; Dark ; 36.5; 94; 92Alp Cet ; 2.53; 3100;occ; 73; 0;38424

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 7; 4260.2; 06-JUL-2009 12:06:32; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;38425
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14; 6708.0; 06-JUL-2009 12:47:20; Dark ; 53.0; 31; Alp Gru ; 1.73; 15200;occ; 106; 0;38425
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 6; 3851.3; 06-JUL-2009 17:01:31; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;38428
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 9; 5016.6; 06-JUL-2009 17:20:57; Dark ; 38.0; 94; 92Alp Cet ; 2.53; 3100;occ; 76; 0;38428
10; 5582.0; 06-JUL-2009 17:30:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38428
11; 6220.9; 06-JUL-2009 17:41:01; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;38428
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 3; 2857.3; 06-JUL-2009 18:25:33; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;38429
 4; 3289.2; 06-JUL-2009 18:32:45; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38429
 5; 3739.4; 06-JUL-2009 18:40:15; Bright; 72.0; 74; 11Bet Cas ; 2.27; 6600;occ; 144; 0;38429
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 7; 4259.8; 06-JUL-2009 18:48:56; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;38429
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 9; 5017.0; 06-JUL-2009 19:01:33; Dark ; 37.5; 94; 92Alp Cet ; 2.53; 3100;occ; 75; 0;38429
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 5; 862.8; 07-JUL-2009 00:34:42; Dark ; 56.5; 172; Gam Gru ; 3.00; 13100;occ; 113; 0;38433
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10; 865.7; 07-JUL-2009 05:36:33; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38436
11; 2192.0; 07-JUL-2009 05:58:39; Bright; 64.0; 168; 17Zet Aql ; 2.99; 11000;occ; 128; 0;38436
12; 2852.5; 07-JUL-2009 06:09:40; Bright; 43.5; 144; 18Del Cyg ; 2.86; 11000;occ; 87; 0;38436
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 5; 3729.8; 07-JUL-2009 21:29:41; Bright; 64.0; 74; 11Bet Cas ; 2.27; 6600;occ; 128; 0;38445
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 7; 4257.8; 07-JUL-2009 21:38:29; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;38445
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 4; 689.4; 08-JUL-2009 00:00:12; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38447
 5; 875.9; 08-JUL-2009 00:03:18; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;38447
 6; 2188.0; 08-JUL-2009 00:25:10; Bright; 41.5; 168; 17Zet Aql ; 2.99; 11000;occ; 83; 0;38447
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 4; -1604.9; 07-JUL-2009 06:35:58; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;38436
 5; -1322.4; 07-JUL-2009 06:40:41; Dark ; 50.0; 50; 13Alp Ari ; 2.01; 4250;occ; 100; 0;38436
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 2; 2851.0; 07-JUL-2009 09:30:50; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;38438
 3; 3283.7; 07-JUL-2009 09:38:03; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38438
 4; 3734.0; 07-JUL-2009 09:45:33; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38438
 5; 3847.9; 07-JUL-2009 09:47:27; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38438
 6; 4258.8; 07-JUL-2009 09:54:18; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;38438
 7; 4431.1; 07-JUL-2009 09:57:10; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;38438
 8; 4714.5; 07-JUL-2009 10:01:54; Dark ; 49.0; 50; 13Alp Ari ; 2.01; 4250;occ; 98; 0;38438
 9; 5021.8; 07-JUL-2009 10:07:01; Dark ; 40.5; 94; 92Alp Cet ; 2.53; 3100;occ; 81; 0;38438
 10; 5592.6; 07-JUL-2009 10:16:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38438


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12; 6610.1; 07-JUL-2009 10:33:29; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;38438
13; 6718.8; 07-JUL-2009 10:35:18; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38438
14; 6904.6; 07-JUL-2009 10:38:24; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38438
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 3; 3733.6; 07-JUL-2009 11:26:09; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38439
 4; 3847.3; 07-JUL-2009 11:28:02; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;38439
 5; 4258.7; 07-JUL-2009 11:34:54; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;38439
 6; 4431.1; 07-JUL-2009 11:37:46; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;38439
 7; 4714.9; 07-JUL-2009 11:42:30; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;38439
 8; 5022.3; 07-JUL-2009 11:47:37; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;38439
 9; 5593.7; 07-JUL-2009 11:57:09; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38439
10; 6233.0; 07-JUL-2009 12:07:48; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;38439
11; 6611.0; 07-JUL-2009 12:14:06; Dark ; 67.0; 63; Bet Gru ; 2.15; 2800;occ; 134; 0;38439
12; 6719.5; 07-JUL-2009 12:15:55; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38439
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 3; 3282.2; 07-JUL-2009 12:59:13; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38440
 4; 3732.9; 07-JUL-2009 13:06:44; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38440
 5; 3847.0; 07-JUL-2009 13:08:38; Bright; 42.0; 110; 37Del Cas ; 2.68; 8900;occ; 84; 0;38440
 6; 4258.4; 07-JUL-2009 13:15:29; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;38440
 7; 4431.5; 07-JUL-2009 13:18:22; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;38440
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13; 6720.4; 07-JUL-2009 13:56:31; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38440
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 3; 3281.7; 07-JUL-2009 14:39:49; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38441
 4; 3732.5; 07-JUL-2009 14:47:19; Bright; 52.5; 74; 11Bet Cas ; 2.27; 6600;occ; 105; 0;38441
 5; 3846.8; 07-JUL-2009 14:49:14; Bright; 64.0; 110; 37Del Cas ; 2.68; 8900;occ; 128; 0;38441
 6; 4258.4; 07-JUL-2009 14:56:05; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;38441
 7; 4431.5; 07-JUL-2009 14:58:58; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;38441
 8; 4715.8; 07-JUL-2009 15:03:43; Dark ; 51.0; 50; 13Alp Ari ; 2.01; 4250;occ; 102; 0;38441
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10; 5595.9; 07-JUL-2009 15:18:23; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38441
11; 6235.2; 07-JUL-2009 15:29:02; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38441
12; 6612.8; 07-JUL-2009 15:35:20; Dark ; 63.5; 63; Bet Gru ; 2.15; 2800;occ; 127; 0;38441
13; 6721.3; 07-JUL-2009 15:37:08; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38441
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 3; 3281.0; 07-JUL-2009 16:20:24; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;38442
 4; 3731.8; 07-JUL-2009 16:27:55; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;38442
 5; 3846.6; 07-JUL-2009 16:29:49; Bright; 40.5; 110; 37Del Cas ; 2.68; 8900;occ; 81; 0;38442
 6; 4258.2; 07-JUL-2009 16:36:41; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;38442
 7; 4431.4; 07-JUL-2009 16:39:34; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;38442
 8; 4716.1; 07-JUL-2009 16:44:19; Dark ; 47.0; 50; 13Alp Ari ; 2.01; 4250;occ; 94; 0;38442
 9; 5024.0; 07-JUL-2009 16:49:27; Dark ; 41.5; 94; 92Alp Cet ; 2.53; 3100;occ; 83; 0;38442
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11; 6236.4; 07-JUL-2009 17:09:39; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38442
12; 6613.8; 07-JUL-2009 17:15:57; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38442
13; 6722.1; 07-JUL-2009 17:17:45; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38442
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 3; 3280.4; 07-JUL-2009 18:00:59; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38443
 4; 3731.1; 07-JUL-2009 18:08:30; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;38443

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8; 4716.4; 07-JUL-2009 18:24:55; Dark ; 47.0; 50; 13Alp Ari ; 2.01; 4250;occ; 94; 0;38443
9; 5024.5; 07-JUL-2009 18:30:03; Dark ; 41.5; 94; 92Alp Cet ; 2.53; 3100;occ; 83; 0;38443
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13; 6723.0; 07-JUL-2009 18:58:22; Dark ; 55.0; 31; Alp Gru ; 1.73; 15200;occ; 110; 0;38443
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4; 3730.4; 07-JUL-2009 19:49:05; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;38444
5; 3845.6; 07-JUL-2009 19:51:00; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38444
6; 4258.0; 07-JUL-2009 19:57:53; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38444
7; 4431.7; 07-JUL-2009 20:00:46; Dark ; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;38444
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12; 6615.8; 07-JUL-2009 20:37:11; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38444
13; 6723.8; 07-JUL-2009 20:38:59; Dark ; 54.5; 31; Alp Gru ; 1.73; 15200;occ; 109; 0;38444
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3; 582.4; 08-JUL-2009 01:39:01; Dark ; 64.5; 63; Bet Gru ; 2.15; 2800;occ; 129; 0;38448
4; 690.4; 08-JUL-2009 01:40:49; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38448
5; 876.7; 08-JUL-2009 01:43:55; Dark ; 56.5; 172; Gam Gru ; 3.00; 13100;occ; 113; 0;38448
6; 2187.5; 08-JUL-2009 02:05:46; Bright; 44.0; 168; 17Zet Aql ; 2.99; 11000;occ; 88; 0;38448
7; 2844.0; 08-JUL-2009 02:16:42; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38448
8; 3277.2; 08-JUL-2009 02:23:56; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;38448
9; 3728.0; 08-JUL-2009 02:31:26; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38448
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9; 877.7; 08-JUL-2009 03:24:32; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38449
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3; -1738.0; 08-JUL-2009 04:21:32; Bright; 34.5; 79; 26Bet Per ; 2.31; 13100;occ; 69; 0;38449
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5; -1008.1; 08-JUL-2009 04:33:42; Dark ; 40.0; 94; 92Alp Cet ; 2.53; 3100;occ; 80; 0;38449
6; -431.1; 08-JUL-2009 04:43:19; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38449
7; 207.9; 08-JUL-2009 04:53:58; Dark ; 62.5; 84; Alp Phe ; 2.40; 4500;occ; 125; 0;38450
8; 584.4; 08-JUL-2009 05:00:15; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38450
9; 691.8; 08-JUL-2009 05:02:02; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38450
10; 878.9; 08-JUL-2009 05:05:09; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38450
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8; 585.1; 08-JUL-2009 06:40:51; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;38451
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4; 3715.2; 09-JUL-2009 13:43:48; Bright; 47.0; 74; 11Bet Cas ; 2.27; 6600;occ; 94; 0;38469
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6; 4254.9; 09-JUL-2009 13:52:48; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;38469
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11; 4253.7; 10-JUL-2009 01:36:58; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;38476
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3; 2817.7; 10-JUL-2009 21:20:13; Bright; 45.5; 144; 18Del Cyg ; 2.86; 11000;occ; 91; 0;38488
4; 3251.7; 10-JUL-2009 21:27:27; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;38488
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9; 5055.6; 11-JUL-2009 11:22:19; Dark ; 44.0; 94; 92Alp Cet ; 2.53; 3100;occ; 88; 0;38496
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13; 6766.9; 11-JUL-2009 15:12:02; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38498
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6; 4049.2; 11-JUL-2009 16:07:20; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;38499
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7; 4042.8; 14-JUL-2009 14:32:23; Bright; 38.5; 160; 23Gam Per ; 2.93; 4700;occ; 77; 0;38541
8; 4122.4; 14-JUL-2009 14:33:42; Bright; 44.0; 35; 33Alp Per ; 1.79; 6250;occ; 88; 0;38541
9; 4242.9; 14-JUL-2009 14:35:43; Bright; 31.0; 73; 57Gam1And ; 2.26; 13100;occ; 62; 0;38541
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13; 6701.1; 14-JUL-2009 15:16:41; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38541
14; 6799.5; 14-JUL-2009 15:18:19; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38541
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2; 2786.4; 14-JUL-2009 15:52:02; Bright; 42.5; 144; 18Del Cyg ; 2.86; 11000;occ; 85; 0;38542
3; 2933.5; 14-JUL-2009 15:54:29; Bright; 52.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 104; 0;38542
4; 3219.2; 14-JUL-2009 15:59:15; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38542
5; 3667.4; 14-JUL-2009 16:06:43; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38542
6; 3806.3; 14-JUL-2009 16:09:02; Bright; 43.5; 110; 37Del Cas ; 2.68; 8900;occ; 87; 0;38542
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8; 4122.3; 14-JUL-2009 16:14:18; Bright; 41.0; 35; 33Alp Per ; 1.79; 6250;occ; 82; 0;38542
9; 4242.7; 14-JUL-2009 16:16:18; Bright; 26.0; 73; 57Gam1And ; 2.26; 13100;occ; 52; 0;38542

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13; 6348.8; 14-JUL-2009 16:51:24; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38542
14; 6702.2; 14-JUL-2009 16:57:18; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;38542
15; 6800.1; 14-JUL-2009 16:58:56; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38542
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 5; 3217.3; 14-JUL-2009 21:01:01; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38545
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 3; 668.7; 14-JUL-2009 21:59:08; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;38546
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 9; 3216.7; 14-JUL-2009 22:41:36; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38546
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11; 3804.8; 14-JUL-2009 22:51:24; Bright; 44.5; 110; 37Del Cas ; 2.68; 8900;occ; 89; 0;38546
12; 4041.9; 14-JUL-2009 22:55:21; Bright; 52.5; 160; 23Gam Per ; 2.93; 4700;occ; 105; 0;38546
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 3; 669.3; 14-JUL-2009 23:39:45; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;38547
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 7; 2783.6; 15-JUL-2009 00:14:59; Bright; 40.5; 144; 18Del Cyg ; 2.86; 11000;occ; 81; 0;38547
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 3; 2932.6; 14-JUL-2009 17:35:04; Bright; 52.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 104; 0;38543
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 5; 3666.7; 14-JUL-2009 17:47:18; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38543
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11; 5087.4; 14-JUL-2009 18:10:59; Dark ; 65.0; 94; 92Alp Cet ; 2.53; 3100;occ; 130; 0;38543
12; 5433.2; 14-JUL-2009 18:16:45; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38543
13; 6350.0; 14-JUL-2009 18:32:02; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38543
14; 6703.1; 14-JUL-2009 18:37:55; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38543
15; 6800.8; 14-JUL-2009 18:39:32; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38543
16; 6993.1; 14-JUL-2009 18:42:45; Dark ; 52.5; 172; Gam Gru ; 3.00; 13100;occ; 105; 0;38543

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 4; 2931.7; 14-JUL-2009 19:15:39; Bright; 57.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 115; 0;38544
 5; 3217.9; 14-JUL-2009 19:20:26; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38544
 6; 3666.2; 14-JUL-2009 19:27:54; Bright; 51.5; 74; 11Bet Cas ; 2.27; 6600;occ; 103; 0;38544
 7; 3805.6; 14-JUL-2009 19:30:13; Bright; 45.5; 110; 37Del Cas ; 2.68; 8900;occ; 91; 0;38544
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 12; 5434.0; 14-JUL-2009 19:57:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38544
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 3; 670.2; 15-JUL-2009 01:20:21; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;38548
 4; 767.6; 15-JUL-2009 01:21:59; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38548
 5; 960.4; 15-JUL-2009 01:25:12; Dark ; 53.0; 172; Gam Gru ; 3.00; 13100;occ; 106; 0;38548
 6; 2109.7; 15-JUL-2009 01:44:21; Bright; 48.5; 11; 53Alp Aql ; 0.76; 8000;occ; 97; 0;38548
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 9; 3215.4; 15-JUL-2009 02:02:47; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;38548
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 3; -1738.7; 15-JUL-2009 02:20:48; Bright; 47.0; 79; 26Bet Per ; 2.31; 13100;occ; 94; 0;38548
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 5; -598.4; 15-JUL-2009 02:39:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38548
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 9; 961.1; 15-JUL-2009 03:05:48; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38549
 10; 2109.4; 15-JUL-2009 03:24:57; Bright; 49.5; 11; 53Alp Aql ; 0.76; 8000;occ; 99; 0;38549
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 4; -1914.3; 15-JUL-2009 03:58:29; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38549
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 6; -944.0; 15-JUL-2009 04:14:39; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;38549
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 9; 672.1; 15-JUL-2009 04:41:35; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38550
 10; 769.2; 15-JUL-2009 04:43:12; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;38550
 11; 961.6; 15-JUL-2009 04:46:25; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38550
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 14; 2926.3; 15-JUL-2009 05:19:09; Bright; 51.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 103; 0;38550
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 5; -1738.8; 15-JUL-2009 05:42:00; Bright; 48.0; 79; 26Bet Per ; 2.31; 13100;occ; 96; 0;38550
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9; 673.0; 15-JUL-2009 06:22:12; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38551
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11; 3750.9; 18-JUL-2009 00:36:51; Bright; 44.0; 68; 18Alp Cas ; 2.22; 4500;occ; 88; 0;38590
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13; 4117.2; 18-JUL-2009 00:42:58; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38590
14; 4295.7; 18-JUL-2009 00:45:56; Bright; 48.0; 79; 26Bet Per ; 2.31; 13100;occ; 96; 0;38590
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2; 696.7; 17-JUL-2009 06:59:58; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;38580
3; 790.7; 17-JUL-2009 07:01:32; Dark ; 55.0; 31; Alp Gru ; 1.73; 15200;occ; 110; 0;38580
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2; 2766.9; 17-JUL-2009 07:34:28; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38580
3; 2901.0; 17-JUL-2009 07:36:42; Bright; 71.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 142; 0;38580
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5; 3641.1; 17-JUL-2009 07:49:02; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38580
6; 3757.6; 17-JUL-2009 07:50:59; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;38580
7; 4036.0; 17-JUL-2009 07:55:37; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;38580
8; 4118.3; 17-JUL-2009 07:56:59; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38580
9; 4296.3; 17-JUL-2009 07:59:57; Bright; 50.0; 79; 26Bet Per ; 2.31; 13100;occ; 100; 0;38580
10; 4472.6; 17-JUL-2009 08:02:54; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38580
11; 4628.9; 17-JUL-2009 08:05:30; Dark ; 43.0; 146; 25Eta Tau ; 2.87; 15200;occ; 86; 0;38580
12; 5116.1; 17-JUL-2009 08:13:37; Dark ; 59.0; 94; 92Alp Cet ; 2.53; 3100;occ; 118; 0;38580
13; 5467.3; 17-JUL-2009 08:19:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38580
14; 6392.4; 17-JUL-2009 08:34:54; Dark ; 58.0; 84; Alp Phe ; 2.40; 4500;occ; 116; 0;38580
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16; 6827.4; 17-JUL-2009 08:42:08; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38580
17; 7020.7; 17-JUL-2009 08:45:22; Dark ; 52.0; 172; Gam Gru ; 3.00; 13100;occ; 104; 0;38580
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3; 2900.2; 17-JUL-2009 09:17:17; Bright; 48.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 96; 0;38581
4; 3196.3; 17-JUL-2009 09:22:13; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38581
5; 3640.2; 17-JUL-2009 09:29:37; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38581
6; 3757.1; 17-JUL-2009 09:31:34; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;38581
7; 4035.8; 17-JUL-2009 09:36:13; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38581

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 9; 4296.1; 17-JUL-2009 09:40:33; Bright; 48.0; 79; 26Bet Per ; 2.31; 13100;occ; 96; 0;38581
 10; 4472.7; 17-JUL-2009 09:43:30; Dark ; 43.0; 150; 44Zet Per ; 2.89; 28000;occ; 86; 0;38581
 11; 4629.2; 17-JUL-2009 09:46:06; Dark ; 43.5; 146; 25Eta Tau ; 2.87; 15200;occ; 87; 0;38581
 12; 5116.9; 17-JUL-2009 09:54:14; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;38581
 13; 5468.3; 17-JUL-2009 10:00:05; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38581
 14; 6393.4; 17-JUL-2009 10:15:30; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;38581
 15; 6734.2; 17-JUL-2009 10:21:11; Dark ; 57.5; 63; Bet Gru ; 2.15; 2800;occ; 115; 0;38581
 16; 6828.0; 17-JUL-2009 10:22:45; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38581
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 2; 2766.0; 17-JUL-2009 10:55:39; Bright; 41.0; 144; 18Del Cyg ; 2.86; 11000;occ; 82; 0;38582
 3; 2899.5; 17-JUL-2009 10:57:52; Bright; 50.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 101; 0;38582
 4; 3195.5; 17-JUL-2009 11:02:48; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38582
 5; 3639.4; 17-JUL-2009 11:10:12; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38582
 6; 3756.2; 17-JUL-2009 11:12:09; Bright; 51.0; 68; 18Alp Cas ; 2.22; 4500;occ; 102; 0;38582
 7; 4035.4; 17-JUL-2009 11:16:48; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38582
 8; 4118.0; 17-JUL-2009 11:18:11; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38582
 9; 4296.0; 17-JUL-2009 11:21:09; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38582
 10; 4473.1; 17-JUL-2009 11:24:06; Dark ; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0;38582
 11; 4629.6; 17-JUL-2009 11:26:43; Dark ; 44.5; 146; 25Eta Tau ; 2.87; 15200;occ; 89; 0;38582
 12; 5117.7; 17-JUL-2009 11:34:51; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38582
 13; 5469.2; 17-JUL-2009 11:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38582
 14; 6394.7; 17-JUL-2009 11:56:08; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38582
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 16; 6828.8; 17-JUL-2009 12:03:22; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38582
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 3;-2000.5; 17-JUL-2009 11:16:48; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38582
 4;-1917.8; 17-JUL-2009 11:18:11; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38582
 5;-1739.8; 17-JUL-2009 11:21:09; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38582
 6;-1562.8; 17-JUL-2009 11:24:06; Dark ; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0;38582
 7;-1406.3; 17-JUL-2009 11:26:43; Dark ; 44.5; 146; 25Eta Tau ; 2.87; 15200;occ; 89; 0;38582
 8; -918.2; 17-JUL-2009 11:34:51; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38582
 9; -566.7; 17-JUL-2009 11:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38582
 10; 358.9; 17-JUL-2009 11:56:08; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38583
 11; 699.2; 17-JUL-2009 12:01:48; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38583
 12; 793.0; 17-JUL-2009 12:03:22; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38583
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 3; 2898.7; 17-JUL-2009 12:38:28; Bright; 50.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 101; 0;38583
 4; 3195.2; 17-JUL-2009 12:43:24; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38583
 5; 3638.7; 17-JUL-2009 12:50:48; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38583
 6; 3755.6; 17-JUL-2009 12:52:44; Bright; 51.0; 68; 18Alp Cas ; 2.22; 4500;occ; 102; 0;38583
 7; 4035.5; 17-JUL-2009 12:57:24; Bright; 62.0; 160; 23Gam Per ; 2.93; 4700;occ; 124; 0;38583
 8; 4118.0; 17-JUL-2009 12:58:47; Bright; 41.5; 35; 33Alp Per ; 1.79; 6250;occ; 83; 0;38583
 9; 4295.9; 17-JUL-2009 13:01:45; Bright; 49.5; 79; 26Bet Per ; 2.31; 13100;occ; 99; 0;38583
 10; 4473.2; 17-JUL-2009 13:04:42; Dark ; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;38583
 11; 4629.9; 17-JUL-2009 13:07:19; Dark ; 42.5; 146; 25Eta Tau ; 2.87; 15200;occ; 85; 0;38583
 12; 5118.5; 17-JUL-2009 13:15:27; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38583
 13; 5470.2; 17-JUL-2009 13:21:19; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38583
 14; 6395.8; 17-JUL-2009 13:36:45; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38583
 15; 6735.9; 17-JUL-2009 13:42:25; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38583
 16; 6829.6; 17-JUL-2009 13:43:58; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38583
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 4; 3194.8; 17-JUL-2009 14:23:59; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38584
 5; 3638.2; 17-JUL-2009 14:31:23; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38584
 6; 3755.1; 17-JUL-2009 14:33:20; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;38584
 7; 4035.3; 17-JUL-2009 14:38:00; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;38584

8; 4117.9; 17-JUL-2009 14:39:23; Bright; 60.0; 35; 33Alp Per ; 1.79; 6250;occ; 120; 0;38584
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 11; 4630.3; 17-JUL-2009 14:47:55; Dark ; 41.0; 146; 25Eta Tau ; 2.87; 15200;occ; 82; 0;38584
 12; 5119.3; 17-JUL-2009 14:56:04; Dark ; 72.5; 94; 92Alp Cet ; 2.53; 3100;occ; 145; 0;38584
 13; 5471.2; 17-JUL-2009 15:01:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38584
 14; 6397.1; 17-JUL-2009 15:17:22; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38584
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 16; 6829.9; 17-JUL-2009 15:24:35; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;38584
 17; 7023.4; 17-JUL-2009 15:27:48; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38584

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 5; 3637.4; 17-JUL-2009 16:11:58; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38585
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 11; 4630.4; 17-JUL-2009 16:28:31; Dark ; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;38585
 12; 5120.1; 17-JUL-2009 16:36:41; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38585
 13; 5472.2; 17-JUL-2009 16:42:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38585
 14; 6398.2; 17-JUL-2009 16:57:59; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38585
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 16; 6831.1; 17-JUL-2009 17:05:12; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38585
 17; 7024.1; 17-JUL-2009 17:08:25; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38585

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 4; 3193.6; 17-JUL-2009 17:45:10; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38586
 5; 3636.7; 17-JUL-2009 17:52:33; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38586
 6; 3753.6; 17-JUL-2009 17:54:30; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;38586
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 16; 6831.7; 17-JUL-2009 18:45:48; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;38586
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 4; 798.4; 18-JUL-2009 01:28:15; Dark ; 56.5; 31; Alp Gru ; 1.73; 15200;occ; 113; 0;38591
 5; 991.7; 18-JUL-2009 01:31:28; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38591
 6; 2153.4; 18-JUL-2009 01:50:50; Bright; 39.5; 168; 17Zet Aql ; 2.99; 11000;occ; 79; 0;38591
 7; 2761.6; 18-JUL-2009 02:00:58; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38591
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 9; 3190.7; 18-JUL-2009 02:08:07; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38591
 10; 3633.0; 18-JUL-2009 02:15:29; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38591
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 4; 3165.2; 21-JUL-2009 10:36:26; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38639
 5; 3598.8; 21-JUL-2009 10:43:40; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;38639
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 7; 4024.7; 21-JUL-2009 10:50:46; Bright; 43.0; 160; 23Gam Per ; 2.93; 4700;occ; 86; 0;38639
 8; 4111.4; 21-JUL-2009 10:52:12; Bright; 44.5; 35; 33Alp Per ; 1.79; 6250;occ; 89; 0;38639
 9; 4294.1; 21-JUL-2009 10:55:15; Bright; 49.5; 79; 26Bet Per ; 2.31; 13100;occ; 99; 0;38639
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 5; 3597.3; 21-JUL-2009 12:24:14; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38640
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6; 1029.7; 22-JUL-2009 01:06:14; Dark ; 49.0; 172; Gam Gru ; 3.00; 13100;occ; 98; 0;38648
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3; -1934.8; 25-JUL-2009 07:04:58; Bright; 48.0; 35; 33Alp Per ; 1.79; 6250;occ; 96; 0;38694
4; -1747.6; 25-JUL-2009 07:08:05; Bright; 51.0; 79; 26Bet Per ; 2.31; 13100;occ; 102; 0;38694
5; -1548.2; 25-JUL-2009 07:11:25; Dark ; 50.0; 150; 44Zet Per ; 2.89; 28000;occ; 100; 0;38694
6; -1375.6; 25-JUL-2009 07:14:17; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38694
7; -1280.1; 25-JUL-2009 07:15:53; Dark ; 50.5; 13; 87Alp Tau ; 0.87; 3800;occ; 101; 0;38694
8; -669.3; 25-JUL-2009 07:26:03; Dark ; 49.5; 165; 34Gam Eri ; 2.95; 3200;occ; 99; 0;38694
9; -440.7; 25-JUL-2009 07:29:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38694
10; -110.7; 25-JUL-2009 07:35:22; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38694

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3; 2818.8; 25-JUL-2009 08:24:12; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38695
4; 3135.5; 25-JUL-2009 08:29:28; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38695
5; 3555.3; 25-JUL-2009 08:36:28; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38695
6; 3660.0; 25-JUL-2009 08:38:13; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38695
7; 4009.7; 25-JUL-2009 08:44:02; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;38695
8; 4100.9; 25-JUL-2009 08:45:34; Bright; 64.0; 35; 33Alp Per ; 1.79; 6250;occ; 128; 0;38695
9; 4288.3; 25-JUL-2009 08:48:41; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38695
10; 4488.0; 25-JUL-2009 08:52:01; Dark ; 48.0; 150; 44Zet Per ; 2.89; 28000;occ; 96; 0;38695
11; 4660.6; 25-JUL-2009 08:54:53; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38695
12; 4756.2; 25-JUL-2009 08:56:29; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;38695
13; 5367.4; 25-JUL-2009 09:06:40; Dark ; 50.5; 165; 34Gam Eri ; 2.95; 3200;occ; 101; 0;38695
14; 5596.5; 25-JUL-2009 09:10:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38695
15; 5926.0; 25-JUL-2009 09:15:59; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;38695
16; 6524.3; 25-JUL-2009 09:25:57; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38695
17; 6902.2; 25-JUL-2009 09:32:15; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38695
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3; 2818.2; 25-JUL-2009 10:04:47; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38696
4; 3134.8; 25-JUL-2009 10:10:03; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38696
5; 3554.5; 25-JUL-2009 10:17:03; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;38696
6; 3659.3; 25-JUL-2009 10:18:48; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38696
7; 4009.2; 25-JUL-2009 10:24:38; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;38696
8; 4100.7; 25-JUL-2009 10:26:09; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38696
9; 4288.1; 25-JUL-2009 10:29:17; Bright; 52.0; 79; 26Bet Per ; 2.31; 13100;occ; 104; 0;38696
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11; 4661.0; 25-JUL-2009 10:35:30; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38696
12; 4756.5; 25-JUL-2009 10:37:05; Dark ; 59.0; 13; 87Alp Tau ; 0.87; 3800;occ; 118; 0;38696
13; 5368.1; 25-JUL-2009 10:47:17; Dark ; 46.0; 165; 34Gam Eri ; 2.95; 3200;occ; 92; 0;38696
14; 5597.8; 25-JUL-2009 10:51:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38696
15; 5926.8; 25-JUL-2009 10:56:35; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;38696
16; 6525.4; 25-JUL-2009 11:06:34; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;38696
17; 6902.8; 25-JUL-2009 11:12:51; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;38696
18; 7094.7; 25-JUL-2009 11:16:03; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38696
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3; 2817.6; 25-JUL-2009 11:45:22; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38697
4; 3134.4; 25-JUL-2009 11:50:39; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38697
5; 3553.7; 25-JUL-2009 11:57:38; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38697
6; 3658.7; 25-JUL-2009 11:59:23; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38697
7; 4009.0; 25-JUL-2009 12:05:13; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;38697
8; 4100.5; 25-JUL-2009 12:06:45; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38697
9; 4288.0; 25-JUL-2009 12:09:52; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38697
10; 4488.2; 25-JUL-2009 12:13:13; Dark ; 48.5; 150; 44Zet Per ; 2.89; 28000;occ; 97; 0;38697
11; 4661.3; 25-JUL-2009 12:16:06; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;38697
12; 4756.7; 25-JUL-2009 12:17:41; Dark ; 58.5; 13; 87Alp Tau ; 0.87; 3800;occ; 117; 0;38697
13; 5368.9; 25-JUL-2009 12:27:53; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;38697
14; 5599.1; 25-JUL-2009 12:31:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38697
15; 5927.7; 25-JUL-2009 12:37:12; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;38697
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17; 6903.4; 25-JUL-2009 12:53:28; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38697
18; 7095.3; 25-JUL-2009 12:56:40; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38697
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2; 2637.7; 25-JUL-2009 13:22:58; Bright; 49.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 99; 0;38698
3; 2817.0; 25-JUL-2009 13:25:57; Bright; 58.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 117; 0;38698
4; 3133.9; 25-JUL-2009 13:31:14; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38698
5; 3552.9; 25-JUL-2009 13:38:13; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38698
6; 4008.8; 25-JUL-2009 13:45:49; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;38698
7; 4100.3; 25-JUL-2009 13:47:21; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 0;38698

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 10; 4661.8; 25-JUL-2009 13:56:42; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38698
 11; 4757.1; 25-JUL-2009 13:58:17; Dark ; 49.5; 13; 87Alp Tau ; 0.87; 3800;occ; 99; 0;38698
 12; 5369.8; 25-JUL-2009 14:08:30; Dark ; 49.0; 165; 34Gam Eri ; 2.95; 3200;occ; 98; 0;38698
 13; 5600.4; 25-JUL-2009 14:12:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38698
 14; 5928.6; 25-JUL-2009 14:17:49; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38698
 15; 6527.7; 25-JUL-2009 14:27:48; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38698
 16; 6904.1; 25-JUL-2009 14:34:04; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;38698
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 3; 2816.3; 25-JUL-2009 15:06:33; Bright; 43.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 87; 0;38699
 4; 3133.4; 25-JUL-2009 15:11:50; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38699
 5; 3552.2; 25-JUL-2009 15:18:49; Bright; 67.5; 74; 11Bet Cas ; 2.27; 6600;occ; 135; 0;38699
 6; 3657.6; 25-JUL-2009 15:20:34; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38699
 7; 4008.6; 25-JUL-2009 15:26:25; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38699
 8; 4100.2; 25-JUL-2009 15:27:56; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 0;38699
 9; 4287.8; 25-JUL-2009 15:31:04; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38699
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 11; 4662.1; 25-JUL-2009 15:37:18; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38699
 12; 4757.5; 25-JUL-2009 15:38:54; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;38699
 13; 5370.7; 25-JUL-2009 15:49:07; Dark ; 55.0; 165; 34Gam Eri ; 2.95; 3200;occ; 110; 0;38699
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 17; 6904.7; 25-JUL-2009 16:14:41; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38699
 18; 7096.8; 25-JUL-2009 16:17:53; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38699

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 3; 2815.7; 25-JUL-2009 16:47:08; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38700
 4; 3133.0; 25-JUL-2009 16:52:25; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38700
 5; 3551.5; 25-JUL-2009 16:59:24; Bright; 53.0; 74; 11Bet Cas ; 2.27; 6600;occ; 106; 0;38700
 6; 3656.9; 25-JUL-2009 17:01:09; Bright; 71.0; 76; 27Gam Cas ; 2.30; 30000;occ; 142; 0;38700
 7; 4008.3; 25-JUL-2009 17:07:01; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38700
 8; 4100.0; 25-JUL-2009 17:08:32; Bright; 44.0; 35; 33Alp Per ; 1.79; 6250;occ; 88; 0;38700
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 11; 4662.6; 25-JUL-2009 17:17:55; Dark ; 52.0; 146; 25Eta Tau ; 2.87; 15200;occ; 104; 0;38700
 12; 4757.7; 25-JUL-2009 17:19:30; Dark ; 57.5; 13; 87Alp Tau ; 0.87; 3800;occ; 115; 0;38700
 13; 5371.3; 25-JUL-2009 17:29:44; Dark ; 50.5; 165; 34Gam Eri ; 2.95; 3200;occ; 101; 0;38700
 14; 5603.1; 25-JUL-2009 17:33:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38700
 15; 5930.5; 25-JUL-2009 17:39:03; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38700
 16; 6530.0; 25-JUL-2009 17:49:02; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38700
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 4; 2814.9; 25-JUL-2009 18:27:43; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38701
 5; 3132.6; 25-JUL-2009 18:33:01; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38701
 6; 3550.7; 25-JUL-2009 18:39:59; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38701
 7; 3656.2; 25-JUL-2009 18:41:44; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38701
 8; 4007.9; 25-JUL-2009 18:47:36; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;38701
 9; 4099.5; 25-JUL-2009 18:49:08; Bright; 45.0; 35; 33Alp Per ; 1.79; 6250;occ; 90; 0;38701
 10; 4287.7; 25-JUL-2009 18:52:16; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38701
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 12; 4662.8; 25-JUL-2009 18:58:31; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 0;38701
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 17; 6531.2; 25-JUL-2009 19:29:39; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;38701
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4; 498.5; 26-JUL-2009 00:31:30; Dark ; 62.5; 84; Alp Phe ; 2.40; 4500;occ; 125; 0;38705
5; 871.6; 26-JUL-2009 00:37:44; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38705
6; 1063.4; 26-JUL-2009 00:40:55; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38705
7; 2068.9; 26-JUL-2009 00:57:41; Bright; 40.0; 11; 53Alp Aql ; 0.76; 8000;occ; 80; 0;38705
8; 2632.5; 26-JUL-2009 01:07:04; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38705
9; 2812.5; 26-JUL-2009 01:10:04; Bright; 44.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 89; 0;38705
10; 3130.4; 26-JUL-2009 01:15:22; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;38705
11; 3547.3; 26-JUL-2009 01:22:19; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38705
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13; 4006.8; 26-JUL-2009 01:29:59; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;38705
14; 4098.6; 26-JUL-2009 01:31:31; Bright; 47.5; 35; 33Alp Per ; 1.79; 6250;occ; 95; 0;38705
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 2; 2616.3; 27-JUL-2009 17:21:11; Bright; 46.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 93; 0;38729
 3; 2798.6; 27-JUL-2009 17:24:13; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;38729
 4; 3119.1; 27-JUL-2009 17:29:33; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;38729
 5; 3528.7; 27-JUL-2009 17:36:23; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38729
 6; 3638.2; 27-JUL-2009 17:38:13; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38729
 7; 4000.0; 27-JUL-2009 17:44:14; Bright; 67.0; 160; 23Gam Per ; 2.93; 4700;occ; 134; 0;38729
 8; 4093.9; 27-JUL-2009 17:45:48; Bright; 66.0; 35; 33Alp Per ; 1.79; 6250;occ; 132; 0;38729
 9; 4284.4; 27-JUL-2009 17:48:59; Bright; 54.5; 79; 26Bet Per ; 2.31; 13100;occ; 109; 0;38729
 10; 4492.9; 27-JUL-2009 17:52:27; Dark ; 49.5; 150; 44Zet Per ; 2.89; 28000;occ; 99; 0;38729
 11; 4671.9; 27-JUL-2009 17:55:26; Dark ; 52.0; 146; 25Eta Tau ; 2.87; 15200;occ; 104; 0;38729
 12; 4767.4; 27-JUL-2009 17:57:02; Dark ; 46.5; 13; 87Alp Tau ; 0.87; 3800;occ; 93; 0;38729
 13; 5393.8; 27-JUL-2009 18:07:28; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;38729
 14; 5642.7; 27-JUL-2009 18:11:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38729
 15; 5955.9; 27-JUL-2009 18:16:50; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;38729
 16; 6562.6; 27-JUL-2009 18:26:57; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38729
 17; 6922.3; 27-JUL-2009 18:32:57; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38729

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 2; 1077.2; 27-JUL-2009 18:36:08; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38730
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 4; 2615.5; 27-JUL-2009 19:01:46; Bright; 46.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 92; 0;38730
 5; 2709.8; 27-JUL-2009 19:03:20; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38730
 6; 2798.0; 27-JUL-2009 19:04:48; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38730
 7; 3118.5; 27-JUL-2009 19:10:09; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38730
 8; 3527.9; 27-JUL-2009 19:16:58; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38730
 9; 3637.6; 27-JUL-2009 19:18:48; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38730
 10; 3999.5; 27-JUL-2009 19:24:50; Bright; 67.0; 160; 23Gam Per ; 2.93; 4700;occ; 134; 0;38730
 11; 4093.8; 27-JUL-2009 19:26:24; Bright; 47.5; 35; 33Alp Per ; 1.79; 6250;occ; 95; 0;38730
 12; 4284.1; 27-JUL-2009 19:29:34; Bright; 52.0; 79; 26Bet Per ; 2.31; 13100;occ; 104; 0;38730
 13; 4493.0; 27-JUL-2009 19:33:03; Dark ; 51.0; 150; 44Zet Per ; 2.89; 28000;occ; 102; 0;38730
 14; 4672.2; 27-JUL-2009 19:36:02; Dark ; 53.5; 146; 25Eta Tau ; 2.87; 15200;occ; 107; 0;38730
 15; 4767.7; 27-JUL-2009 19:37:38; Dark ; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;38730
 16; 5394.5; 27-JUL-2009 19:48:05; Dark ; 53.0; 165; 34Gam Eri ; 2.95; 3200;occ; 106; 0;38730
 17; 5644.1; 27-JUL-2009 19:52:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38730
 18; 5956.7; 27-JUL-2009 19:57:27; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38730
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 20; 6922.8; 27-JUL-2009 20:13:33; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38730

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 4; 530.9; 28-JUL-2009 01:09:25; Dark ; 63.0; 84; Alp Phe ; 2.40; 4500;occ; 126; 0;38734
 5; 888.3; 28-JUL-2009 01:15:22; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38734
 6; 1079.4; 28-JUL-2009 01:18:33; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38734
 7; 2064.8; 28-JUL-2009 01:34:59; Bright; 39.5; 11; 53Alp Aql ; 0.76; 8000;occ; 79; 0;38734
 8; 2613.0; 28-JUL-2009 01:44:07; Bright; 48.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 96; 0;38734
 9; 2708.7; 28-JUL-2009 01:45:43; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38734
 10; 2795.6; 28-JUL-2009 01:47:09; Bright; 43.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 87; 0;38734
 11; 3116.6; 28-JUL-2009 01:52:30; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38734
 12; 3524.7; 28-JUL-2009 01:59:19; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38734
 13; 3635.0; 28-JUL-2009 02:01:09; Bright; 65.0; 76; 27Gam Cas ; 2.30; 30000;occ; 130; 0;38734
 14; 3998.4; 28-JUL-2009 02:07:12; Bright; 67.0; 160; 23Gam Per ; 2.93; 4700;occ; 134; 0;38734
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 17; 4493.6; 28-JUL-2009 02:15:27; Dark ; 49.0; 150; 44Zet Per ; 2.89; 28000;occ; 98; 0;38734
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 3; -75.9; 28-JUL-2009 02:39:54; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;38734
 4; 532.1; 28-JUL-2009 02:50:02; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38735
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 6; 1079.7; 28-JUL-2009 02:59:09; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38735
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 8; 2612.3; 28-JUL-2009 03:24:42; Bright; 45.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 90; 0;38735
 9; 2708.3; 28-JUL-2009 03:26:18; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;38735
 10; 2795.2; 28-JUL-2009 03:27:45; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;38735
 11; 3116.1; 28-JUL-2009 03:33:06; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38735
 12; 3524.0; 28-JUL-2009 03:39:54; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38735

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 3; -2037.9; 28-JUL-2009 03:47:48; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38735
 4; -1943.4; 28-JUL-2009 03:49:22; Bright; 49.0; 35; 33Alp Per ; 1.79; 6250;occ; 98; 0;38735
 5; -1752.4; 28-JUL-2009 03:52:33; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38735
 6; -1542.3; 28-JUL-2009 03:56:03; Dark ; 49.5; 150; 44Zet Per ; 2.89; 28000;occ; 99; 0;38735
 7; -1266.7; 28-JUL-2009 04:00:39; Dark ; 60.0; 13; 87Alp Tau ; 0.87; 3800;occ; 120; 0;38735
 8; -637.4; 28-JUL-2009 04:11:08; Dark ; 53.5; 165; 34Gam Eri ; 2.95; 3200;occ; 107; 0;38735
 9; -384.8; 28-JUL-2009 04:15:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38735
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 11; 533.2; 28-JUL-2009 04:30:39; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38736
 12; 889.5; 28-JUL-2009 04:36:35; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;38736
 13; 1080.3; 28-JUL-2009 04:39:46; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38736
 14; 2064.7; 28-JUL-2009 04:56:10; Bright; 39.5; 11; 53Alp Aql ; 0.76; 8000;occ; 79; 0;38736
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 16; 2708.2; 28-JUL-2009 05:06:54; Bright; 38.0; 144; 18Del Cyg ; 2.86; 11000;occ; 76; 0;38736
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 18; 3115.6; 28-JUL-2009 05:13:41; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38736
 19; 3523.3; 28-JUL-2009 05:20:29; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38736
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 3; -1943.6; 28-JUL-2009 05:29:58; Bright; 54.5; 35; 33Alp Per ; 1.79; 6250;occ; 109; 0;38736
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 5; -1542.1; 28-JUL-2009 05:36:40; Dark ; 49.5; 150; 44Zet Per ; 2.89; 28000;occ; 99; 0;38736
 6; -1266.2; 28-JUL-2009 05:41:16; Dark ; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;38736
 7; -636.6; 28-JUL-2009 05:51:45; Dark ; 52.0; 165; 34Gam Eri ; 2.95; 3200;occ; 104; 0;38736
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 10; 534.2; 28-JUL-2009 06:11:16; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;38737
 11; 890.1; 28-JUL-2009 06:17:12; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;38737
 12; 1080.8; 28-JUL-2009 06:20:23; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38737
 13; 2064.5; 28-JUL-2009 06:36:46; Bright; 42.0; 11; 53Alp Aql ; 0.76; 8000;occ; 84; 0;38737
 14; 2611.1; 28-JUL-2009 06:45:53; Bright; 47.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 94; 0;38737


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15; 2708.0; 28-JUL-2009 06:47:30; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;38737
16; 2794.1; 28-JUL-2009 06:48:56; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38737
17; 3115.2; 28-JUL-2009 06:54:17; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38737
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 2; 1085.1; 28-JUL-2009 19:45:14; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;38745
 3; 2063.7; 28-JUL-2009 20:01:33; Bright; 40.0; 11; 53Alp Aql ; 0.76; 8000;occ; 80; 0;38745
 4; 2606.0; 28-JUL-2009 20:10:35; Bright; 46.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 93; 0;38745
 5; 2705.8; 28-JUL-2009 20:12:15; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;38745
 6; 2789.6; 28-JUL-2009 20:13:39; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38745
 7; 3111.4; 28-JUL-2009 20:19:01; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38745
 8; 3516.0; 28-JUL-2009 20:25:45; Bright; 51.5; 74; 11Bet Cas ; 2.27; 6600;occ; 103; 0;38745
 9; 3627.6; 28-JUL-2009 20:27:37; Bright; 48.5; 76; 27Gam Cas ; 2.30; 30000;occ; 97; 0;38745
10; 3994.7; 28-JUL-2009 20:33:44; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;38745
11; 4090.1; 28-JUL-2009 20:35:19; Bright; 47.0; 35; 33Alp Per ; 1.79; 6250;occ; 94; 0;38745
12; 4282.0; 28-JUL-2009 20:38:31; Bright; 55.5; 79; 26Bet Per ; 2.31; 13100;occ; 111; 0;38745
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 4; 544.3; 28-JUL-2009 21:16:50; Dark ; 57.5; 84; Alp Phe ; 2.40; 4500;occ; 115; 0;38746
 5; 895.2; 28-JUL-2009 21:22:40; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;38746
 6; 1085.6; 28-JUL-2009 21:25:51; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38746
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6; 3092.4; 31-JUL-2009 20:24:27; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38788
7; 3481.2; 31-JUL-2009 20:30:56; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38788
8; 3598.7; 31-JUL-2009 20:32:53; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38788
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12; 4500.9; 31-JUL-2009 20:47:55; Dark ; 52.0; 150; 44Zet Per ; 2.89; 28000;occ; 104; 0;38788
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