

GOMOS Daily Report 02-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 04:39:34
Data source version	GOMOS/5.00
Start time of products	02JUL2009 00:01:57
Stop time of products	02JUL2009 05:50:06
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

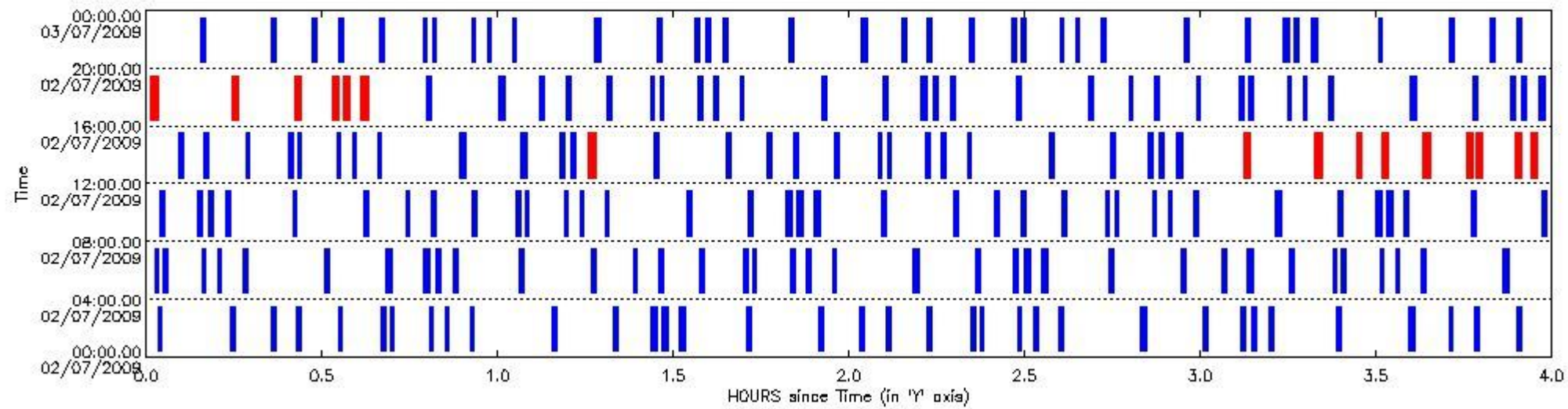
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



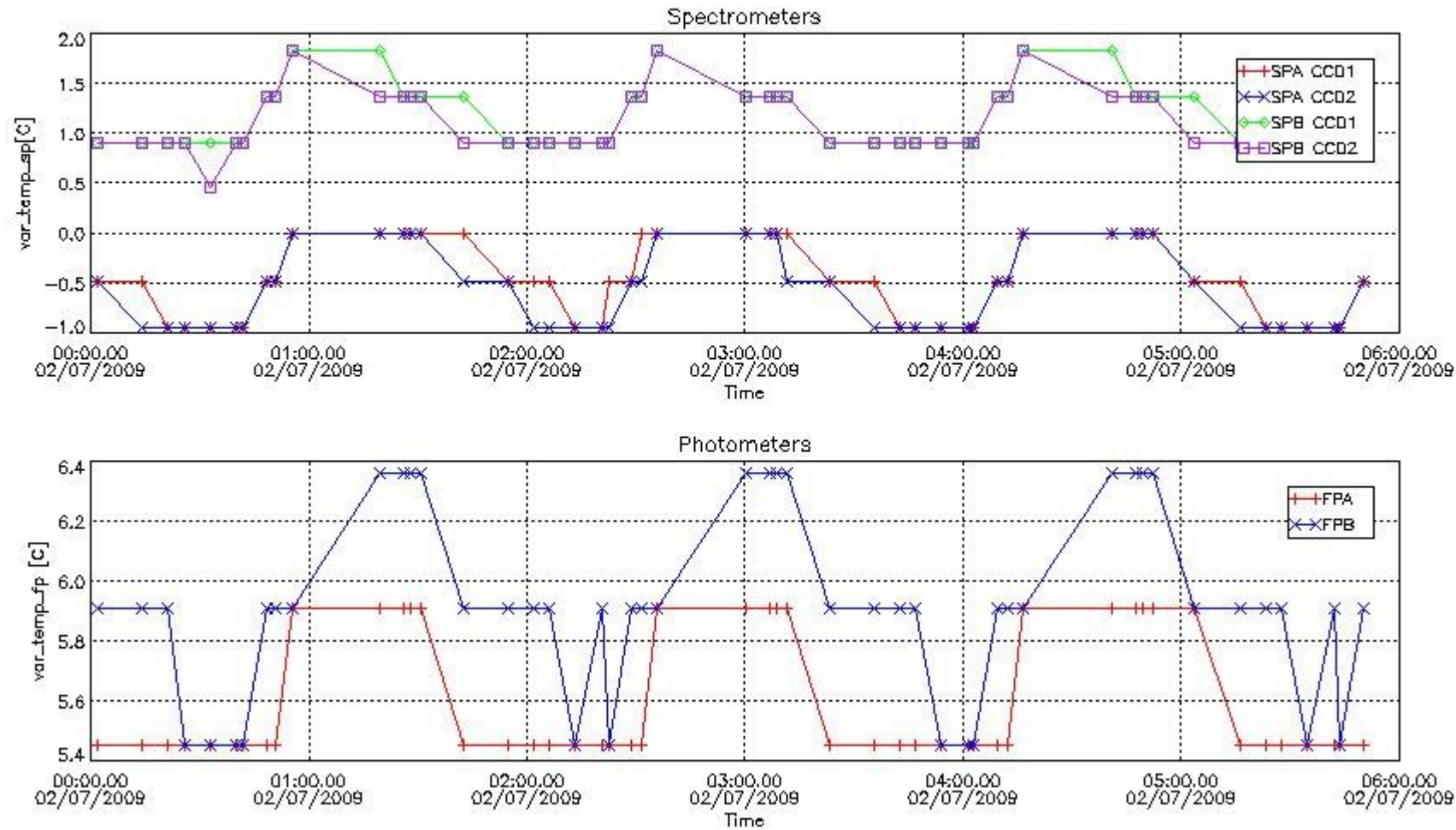
2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
02-JUL-2009 13:15:19	GamGru	172	38369
02-JUL-2009 15:07:20	41PISgr	155	38370
02-JUL-2009 15:19:35	17ZetAql	168	38370
02-JUL-2009 15:26:36	3AlpLyr	5	38370
02-JUL-2009 15:30:58	18DelCyg	144	38370
02-JUL-2009 15:38:03	5AlpCep	89	38370
02-JUL-2009 15:45:28	11BetCas	74	38370
02-JUL-2009 15:47:05	37DelCas	110	38370
02-JUL-2009 15:53:40	57Gam1And	73	38370
02-JUL-2009 15:56:22	4BetTri	173	38370
02-JUL-2009 16:00:43	13AlpAri	50	38370
02-JUL-2009 16:14:40	DSA1066	0	38370
02-JUL-2009 16:25:14	AlpPhe	84	38371
02-JUL-2009 16:31:41	BetGru	63	38371
02-JUL-2009 16:33:36	AlpGru	31	38371

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_1PNPDE20090702_000157_000000402080_00231_38361_0028.N1	02-JUL-2009 00:01:57	Bright	40.000	155	41Pi Sgr	2.9000	6600.0	80	38361	No
2	GOM_TRA_1PNPDE20090702_001418_000000452080_00231_38361_0029.N1	02-JUL-2009 00:14:18	Bright	45.000	168	17Zet Aql	2.9860	11000.	90	38361	No
3	GOM_TRA_1PNPDE20090702_002118_000000502080_00231_38361_0030.N1	02-JUL-2009 00:21:18	Bright	50.000	5	3Alp Lyr	0.033000	11000.	100	38361	No
4	GOM_TRA_1PNPDE20090702_002544_000000482080_00231_38361_0031.N1	02-JUL-2009 00:25:44	Bright	47.500	144	18Del Cyg	2.8600	11000.	95	38361	No
5	GOM_TRA_1PNPDE20090702_003247_000000432080_00231_38361_0032.N1	02-JUL-2009 00:32:47	Bright	43.000	89	5Alp Cep	2.4510	8000.0	86	38361	No
6	GOM_TRA_1PNPDE20090702_004011_000000402080_00231_38361_0033.N1	02-JUL-2009 00:40:11	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	38361	No
7	GOM_TRA_1PNPDE20090702_004146_000000352080_00231_38361_0034.N1	02-JUL-2009 00:41:46	Bright	35.000	110	37Del Cas	2.6780	8900.0	70	38361	No
8	GOM_TRA_1PNPDE20090702_004819_000000362080_00231_38361_0035.N1	02-JUL-2009 00:48:19	Bright	35.500	73	57Gam1And	2.2600	13100.	71	38361	No
9	GOM_TRA_1PNPDE20090702_005059_000000362080_00231_38361_0036.N1	02-JUL-2009 00:50:59	Twilight	36.000	173	4Bet Tri	3.0040	8900.0	72	38361	No
10	GOM_TRA_1PNPDE20090702_005518_000000392080_00231_38361_0037.N1	02-JUL-2009 00:55:18	Dark	38.500	50	13Alp Ari	2.0070	4250.0	77	38361	No
11	GOM_TRA_1PNPDE20090702_011942_000000502080_00232_38362_0168.N1	02-JUL-2009 01:19:42	Dark	49.500	84	Alp Phe	2.3970	4500.0	99	38362	No
12	GOM_TRA_1PNPDE20090702_012610_000000632080_00232_38362_0169.N1	02-JUL-2009 01:26:10	Straylight	62.500	63	Bet Gru	2.1500	2800.0	125	38362	No
13	GOM_TRA_1PNPDE20090702_012806_000000592080_00232_38362_0170.N1	02-JUL-2009 01:28:06	Straylight	59.000	31	Alp Gru	1.7340	15200.	118	38362	No
14	GOM_TRA_1PNPDE20090702_013101_000000562080_00232_38362_0171.N1	02-JUL-2009 01:31:01	Straylight	55.500	172	Gam Gru	3.0030	13100.	111	38362	No
15	GOM_TRA_1PNPDE20090702_014233_000000462080_00232_38362_0172.N1	02-JUL-2009 01:42:33	Bright	45.500	155	41Pi Sgr	2.9000	6600.0	91	38362	No
16	GOM_TRA_1PNPDE20090702_015453_000000452080_00232_38362_0173.N1	02-JUL-2009 01:54:53	Bright	44.500	168	17Zet Aql	2.9860	11000.	89	38362	No
17	GOM_TRA_1PNPDE20090702_020153_000000472080_00232_38362_0174.N1	02-JUL-2009 02:01:53	Bright	47.000	5	3Alp Lyr	0.033000	11000.	94	38362	No
18	GOM_TRA_1PNPDE20090702_020618_000000452080_00232_38362_0175.N1	02-JUL-2009 02:06:18	Bright	45.000	144	18Del Cyg	2.8600	11000.	90	38362	No
19	GOM_TRA_1PNPDE20090702_021323_000000442080_00232_38362_0176.N1	02-JUL-2009 02:13:23	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	38362	No
20	GOM_TRA_1PNPDE20090702_022046_000000432080_00232_38362_0177.N1	02-JUL-2009 02:20:46	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	38362	No
21	GOM_TRA_1PNPDE20090702_022222_000000352080_00232_38362_0178.N1	02-JUL-2009 02:22:22	Bright	35.000	110	37Del Cas	2.6780	8900.0	70	38362	No
22	GOM_TRA_1PNPDE20090702_022855_000000362080_00232_38362_0319.N1	02-JUL-2009 02:28:55	Bright	35.500	73	57Gam1And	2.2600	13100.	71	38362	No
23	GOM_TRA_1PNPDE20090702_023135_000000382080_00232_38362_0320.N1	02-JUL-2009 02:31:35	Twilight	37.500	173	4Bet Tri	3.0040	8900.0	75	38362	No
24	GOM_TRA_1PNPDE20090702_023554_000000412080_00232_38362_0321.N1	02-JUL-2009 02:35:54	Dark	40.500	50	13Alp Ari	2.0070	4250.0	81	38362	No
25	GOM_TRA_1PNPDE20090702_030019_000000492080_00233_38363_0322.N1	02-JUL-2009 03:00:19	Dark	48.500	84	Alp Phe	2.3970	4500.0	97	38363	No
26	GOM_TRA_1PNPDE20090702_030647_000000552080_00233_38363_0323.N1	02-JUL-2009 03:06:47	Straylight	55.000	63	Bet Gru	2.1500	2800.0	110	38363	No
27	GOM_TRA_1PNPDE20090702_030842_000000532080_00233_38363_0324.N1	02-JUL-2009 03:08:42	Straylight	52.500	31	Alp Gru	1.7340	15200.	105	38363	No
28	GOM_TRA_1PNPDE20090702_031139_000000582080_00233_38363_0325.N1	02-JUL-2009 03:11:39	Straylight	57.500	172	Gam Gru	3.0030	13100.	115	38363	No
29	GOM_TRA_1PNPDE20090702_032309_000000512080_00233_38363_0326.N1	02-JUL-2009 03:23:09	Bright	51.000	155	41Pi Sgr	2.9000	6600.0	102	38363	No
30	GOM_TRA_1PNPDE20090702_033528_000000702080_00233_38363_0327.N1	02-JUL-2009 03:35:28	Bright	70.000	168	17Zet Aql	2.9860	11000.	140	38363	No
31	GOM_TRA_1PNPDE20090702_034229_000000412080_00233_38363_0328.N1	02-JUL-2009 03:42:29	Bright	40.500	5	3Alp Lyr	0.033000	11000.	81	38363	No
32	GOM_TRA_1PNPDE20090702_034654_000000492080_00233_38363_0329.N1	02-JUL-2009 03:46:54	Bright	49.000	144	18Del Cyg	2.8600	11000.	98	38363	No
33	GOM_TRA_1PNPDE20090702_035358_000000522080_00233_38363_0330.N1	02-JUL-2009 03:53:58	Bright	52.000	89	5Alp Cep	2.4510	8000.0	104	38363	No
34	GOM_TRA_1PNPDE20090702_040122_000000462080_00233_38363_0478.N1	02-JUL-2009 04:01:22	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	38363	No
35	GOM_TRA_1PNPDE20090702_040257_000000362080_00233_38363_0479.N1	02-JUL-2009 04:02:57	Bright	35.500	110	37Del Cas	2.6780	8900.0	71	38363	No
36	GOM_TRA_1PNPDE20090702_040931_000000382080_00233_38363_0480.N1	02-JUL-2009 04:09:31	Bright	37.500	73	57Gam1And	2.2600	13100.	75	38363	No
37	GOM_TRA_1PNPDE20090702_041211_000000392080_00233_38363_0481.N1	02-JUL-2009 04:12:11	Twilight	38.500	173	4Bet Tri	3.0040	8900.0	77	38363	No
38	GOM_TRA_1PNPDE20090702_041630_000000412080_00233_38363_0482.N1	02-JUL-2009 04:16:30	Dark	41.000	50	13Alp Ari	2.0070	4250.0	82	38363	No
39	GOM_TRA_1PNPDE20090702_044057_000000592080_00234_38364_0483.N1	02-JUL-2009 04:40:57	Dark	59.000	84	Alp Phe	2.3970	4500.0	118	38364	No
40	GOM_TRA_1PNPDE20090702_044724_000000522080_00234_38364_0484.N1	02-JUL-2009 04:47:24	Straylight	51.500	63	Bet Gru	2.1500	2800.0	103	38364	No
41	GOM_TRA_1PNPDE20090702_044919_000000512080_00234_38364_0485.N1	02-JUL-2009 04:49:19	Straylight	51.000	31	Alp Gru	1.7340	15200.	102	38364	No
42	GOM_TRA_1PNPDE20090702_045216_000000582080_00234_38364_0486.N1	02-JUL-2009 04:52:16	Straylight	58.000	172	Gam Gru	3.0030	13100.	116	38364	No
43	GOM_TRA_1PNPDE20090702_050345_000000432080_00234_38364_0487.N1	02-JUL-2009 05:03:45	Bright	43.000	155	41Pi Sgr	2.9000	6600.0	86	38364	No
44	GOM_TRA_1PNPDE20090702_051604_000000462080_00234_38364_0488.N1	02-JUL-2009 05:16:04	Bright	46.000	168	17Zet Aql	2.9860	11000.	92	38364	No
45	GOM_TRA_1PNPDE20090702_052304_000000402080_00234_38364_0489.N1	02-JUL-2009 05:23:04	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	38364	No
46	GOM_TRA_1PNPDE20090702_052729_000000492080_00234_38364_0490.N1	02-JUL-2009 05:27:29	Bright	48.500	144	18Del Cyg	2.8600	11000.	97	38364	No
47	GOM_TRA_1PNPDE20090702_053433_000000442080_00234_38364_0491.N1	02-JUL-2009 05:34:33	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	38364	No
48	GOM_TRA_1PNPDE20090702_054157_000000432080_00234_38364_0668.N1	02-JUL-2009 05:41:57	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	38364	No
49	GOM_TRA_1PNPDE20090702_054333_000000362080_00234_38364_0669.N1	02-JUL-2009 05:43:33	Bright	35.500	110	37Del Cas	2.6780	8900.0	71	38364	No
50	GOM_TRA_1PNPDE20090702_055006_000000382080_00234_38364_0670.N1	02-JUL-2009 05:50:06	Bright	37.500	73	57Gam1And	2.2600	13100.	75	38364	No

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



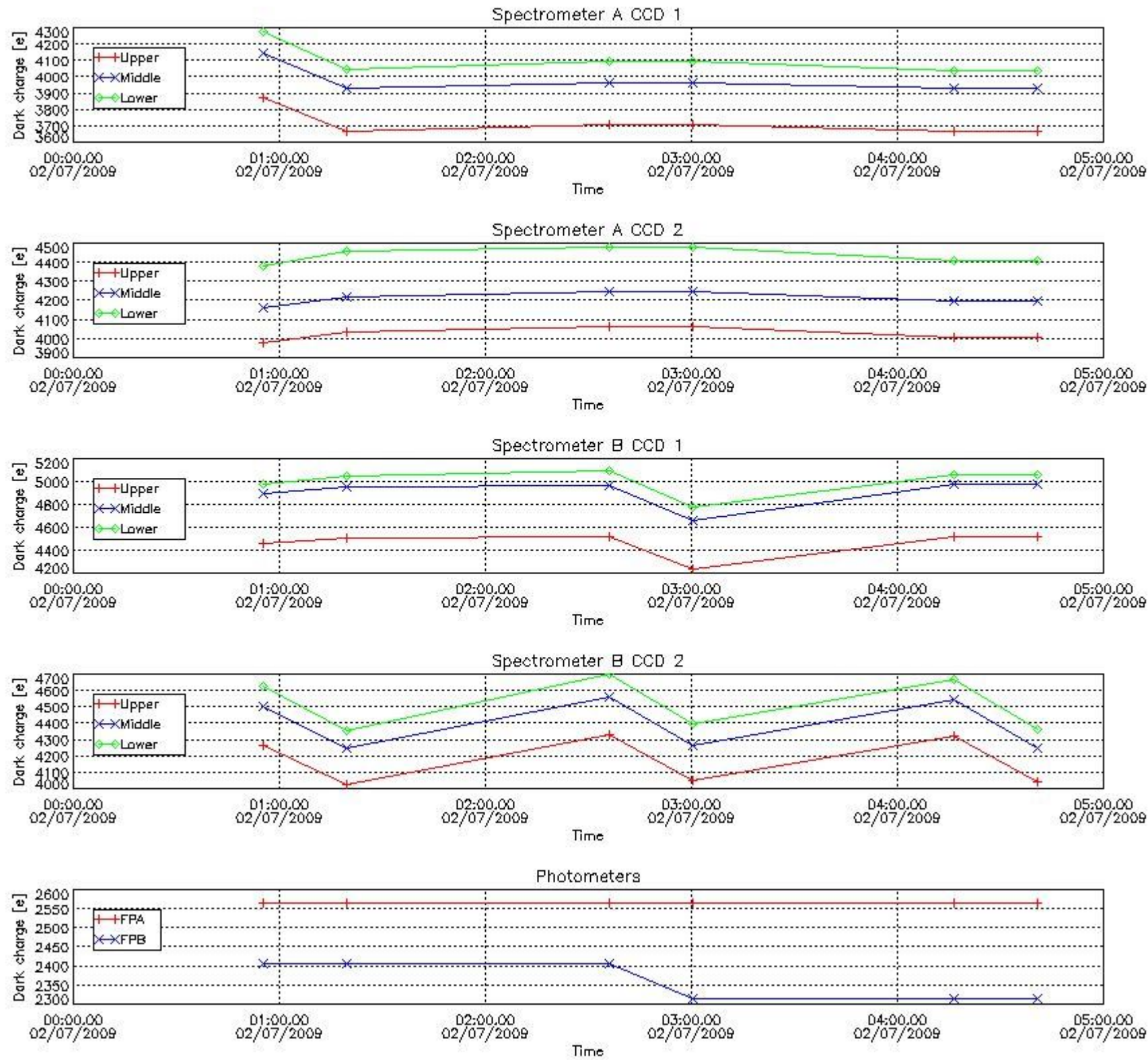
4. Overview of dark signal processing per product

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



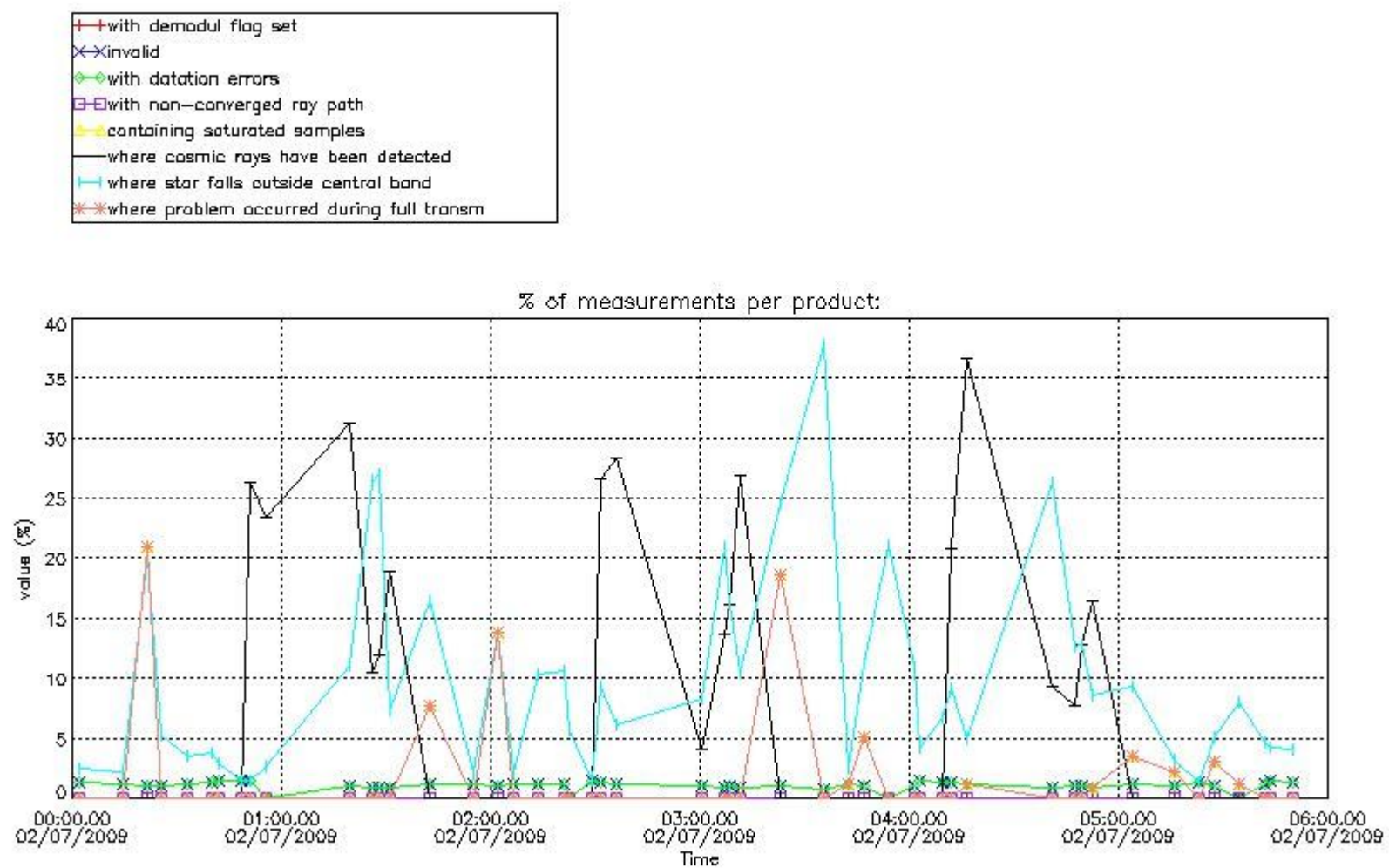
5. Demodulation flag and quality information monitoring

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.

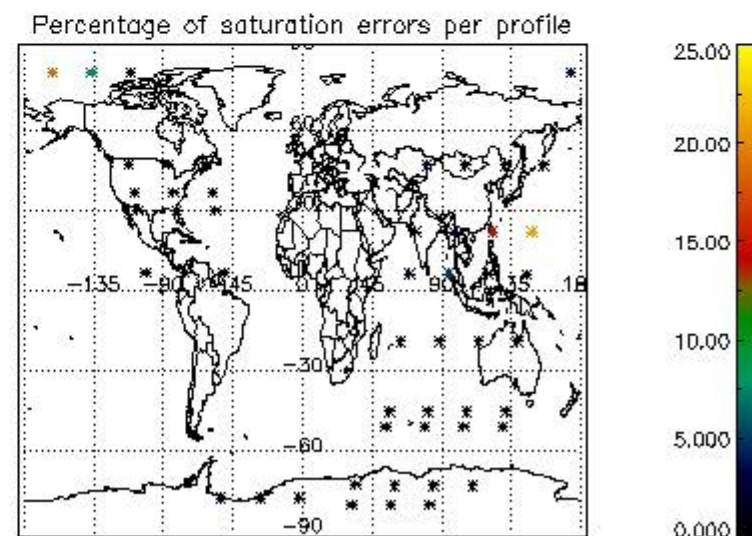
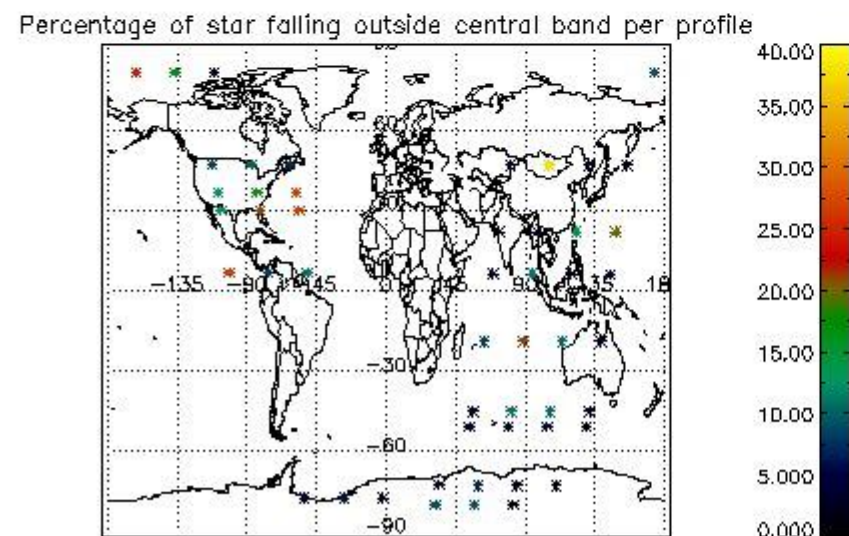
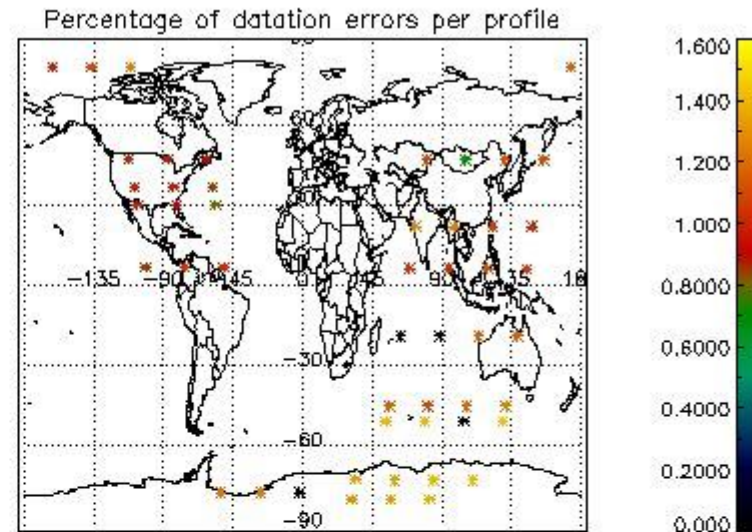
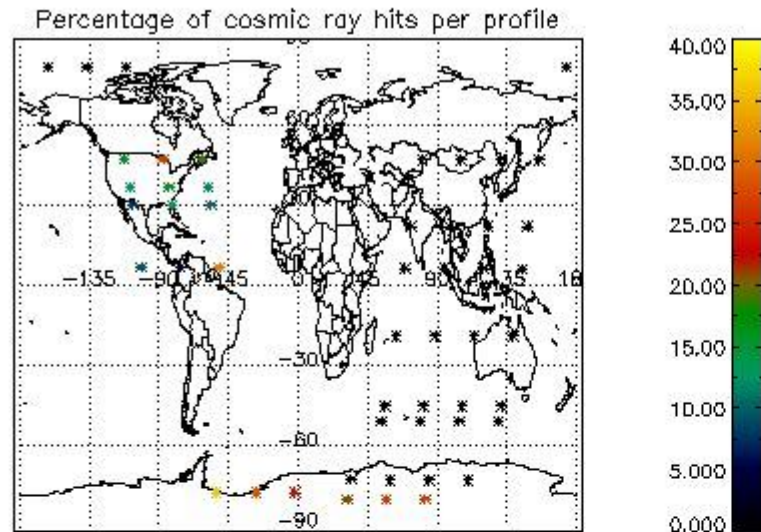
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.0000 %
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)



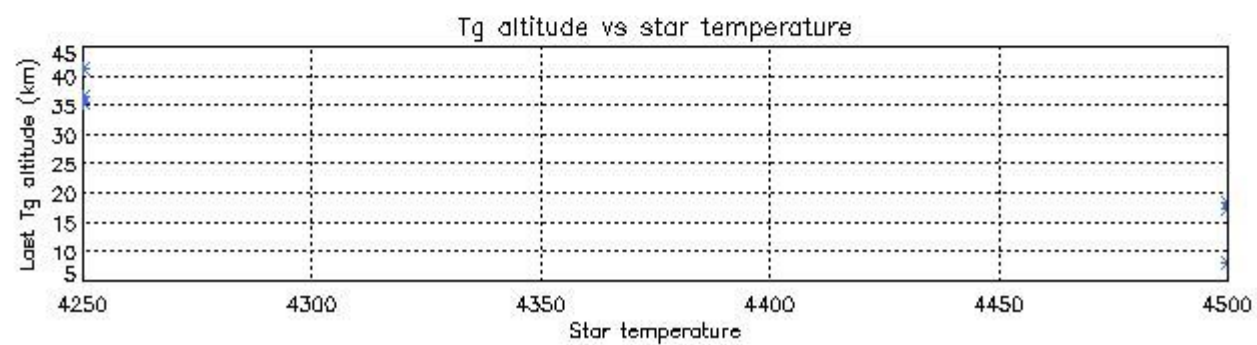
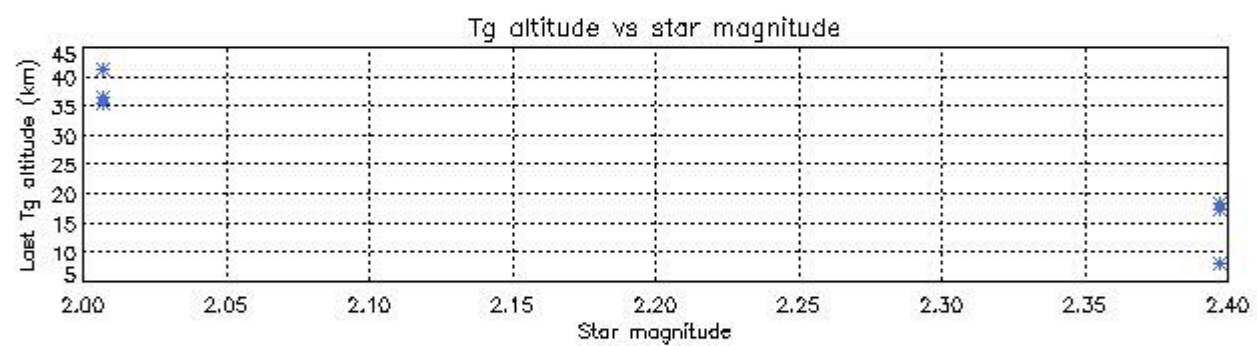
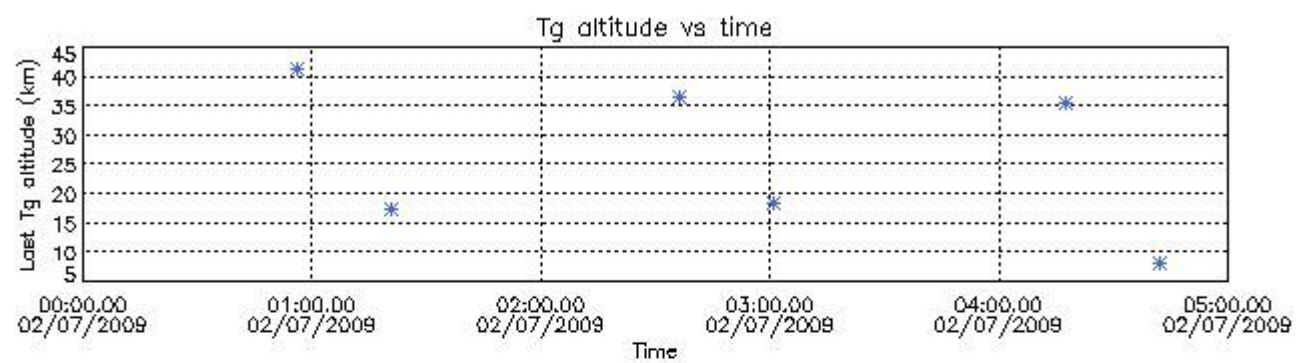
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	26.183	25.960	NaN
St. deviation:	13.345	9.2584	NaN
Maximum:	41.338	41.475	NaN
Minimum:	7.9643	3.8516	NaN
Number of data:	6.0000	32.000	NaN

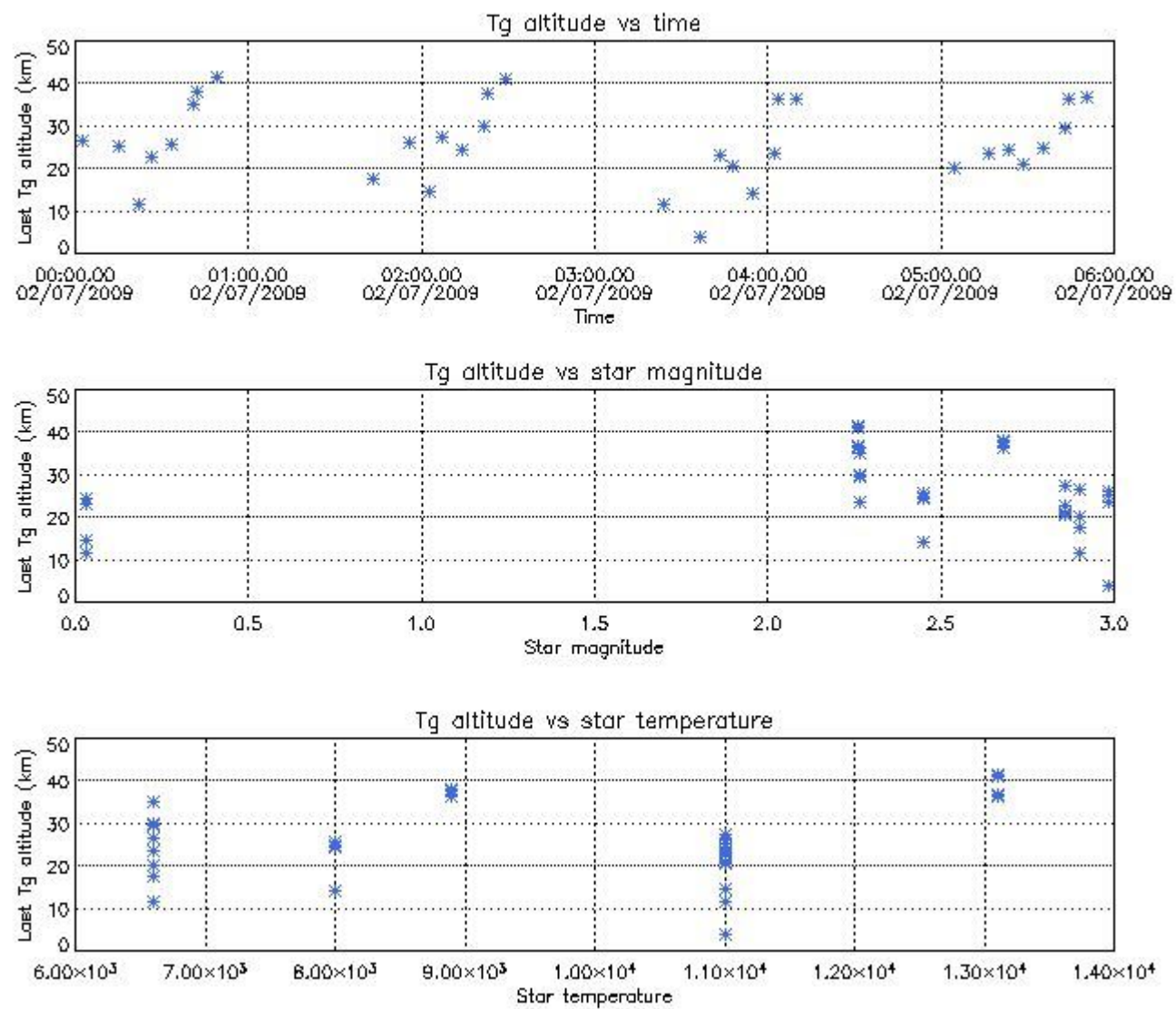
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

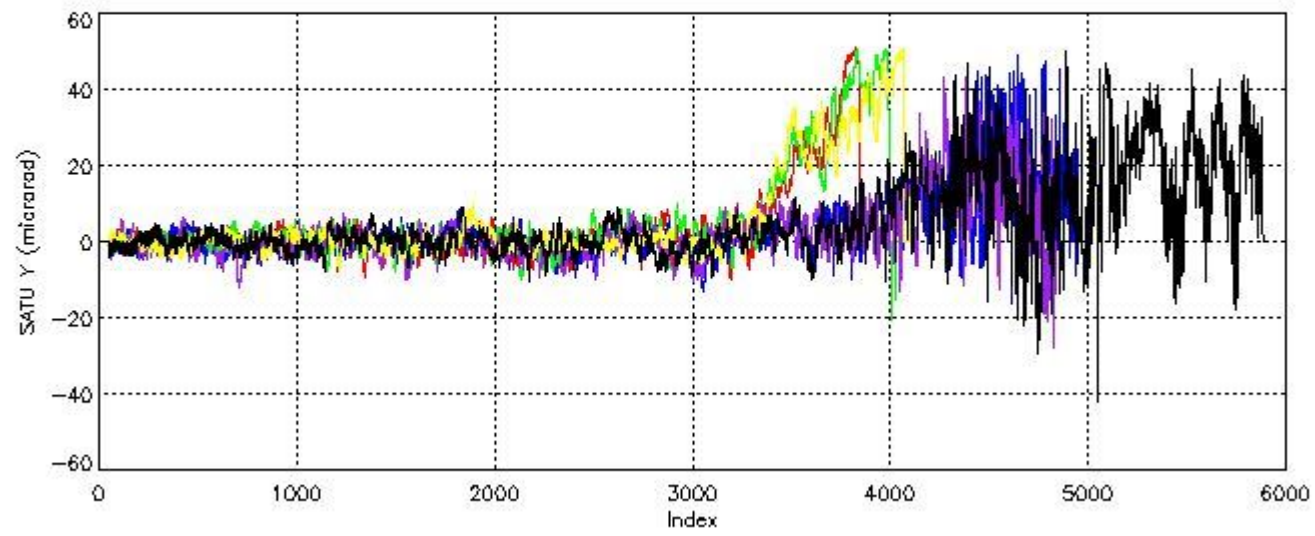
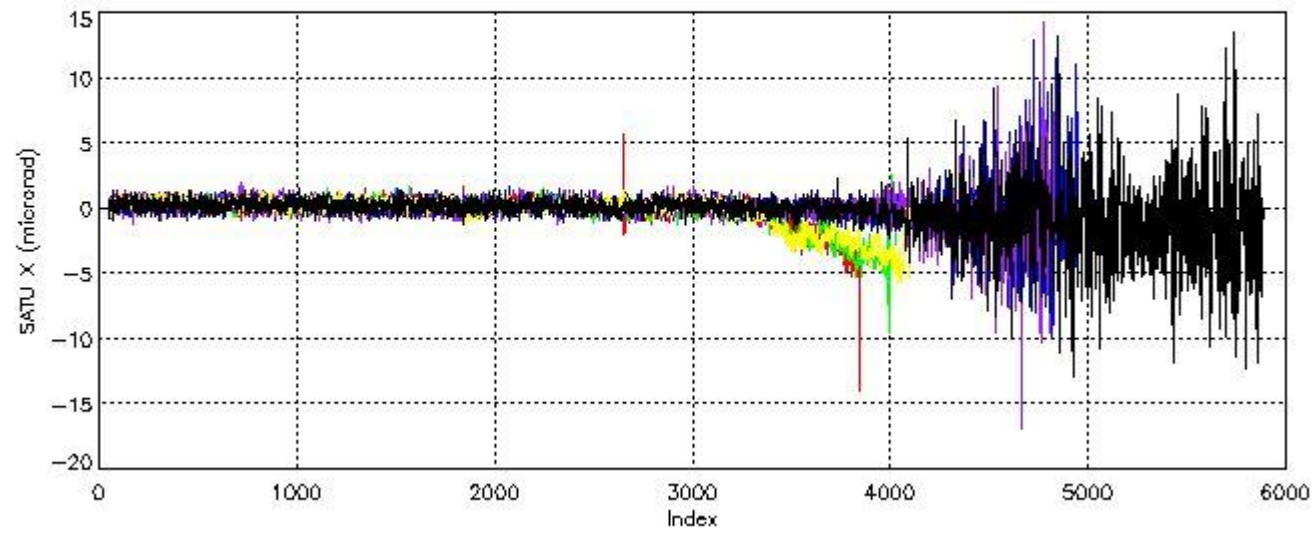


7. Star Acquisition and Tracking Unit (SATU)

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:	0.26567	-0.32461	0.26216	-0.36779
St. deviation:	0.36920	2.0457	1.0050	2.8385
Maximum:	2.0000	6.5000	7.1000	11.500
Minimum:	-1.2000	-12.000	-6.1000	-13.700

Number of data:	6900.0	6900.0	33900.	33900.
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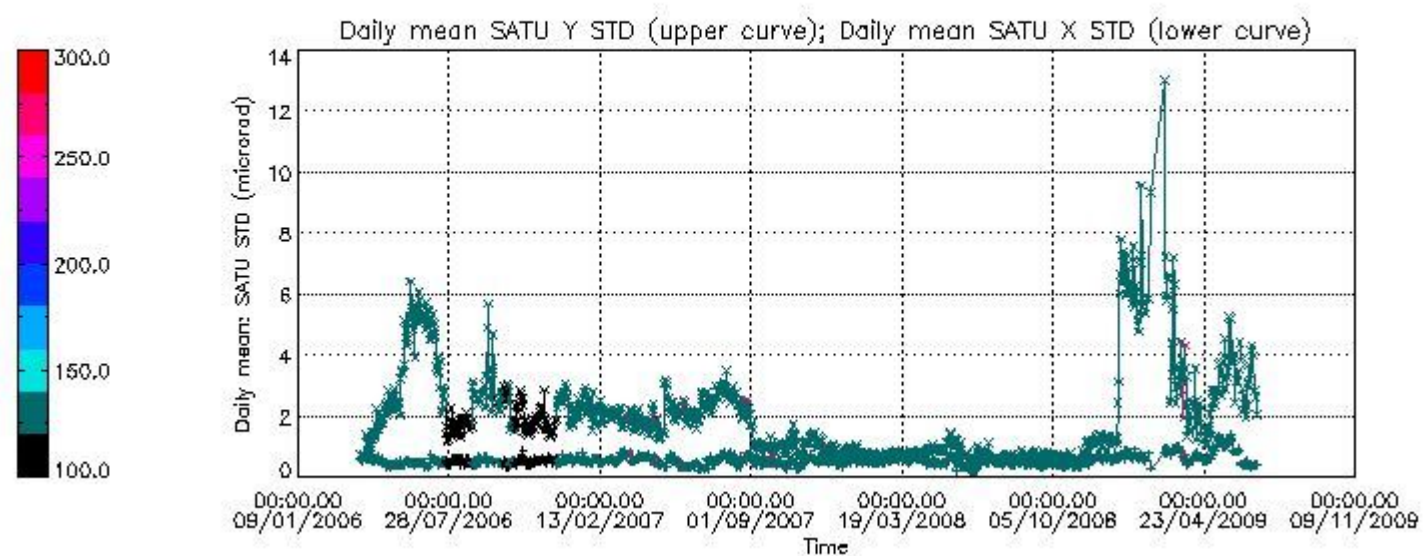
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

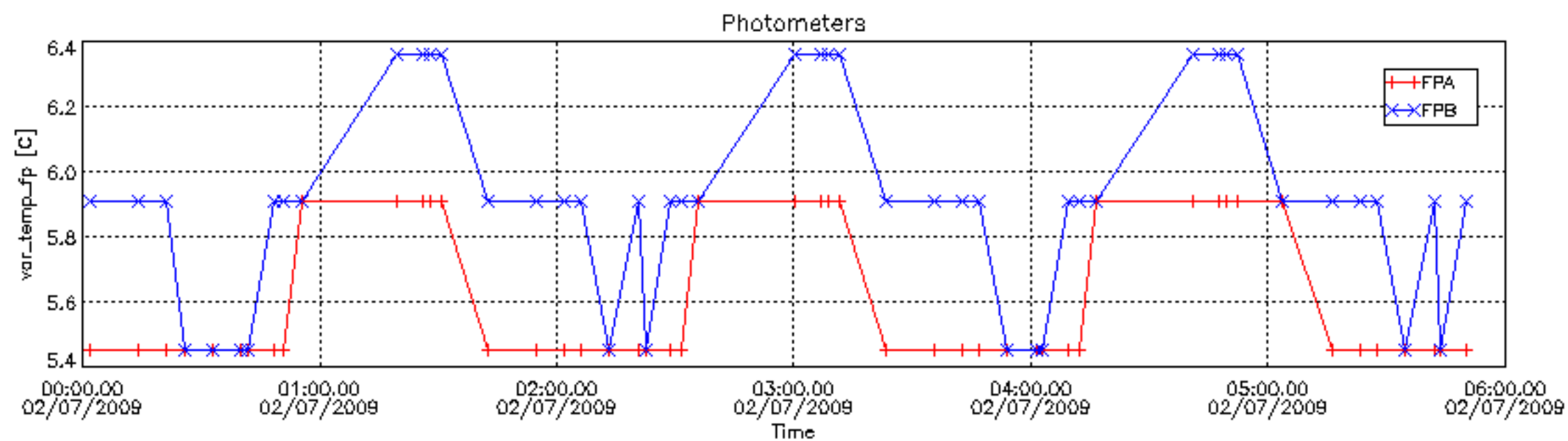
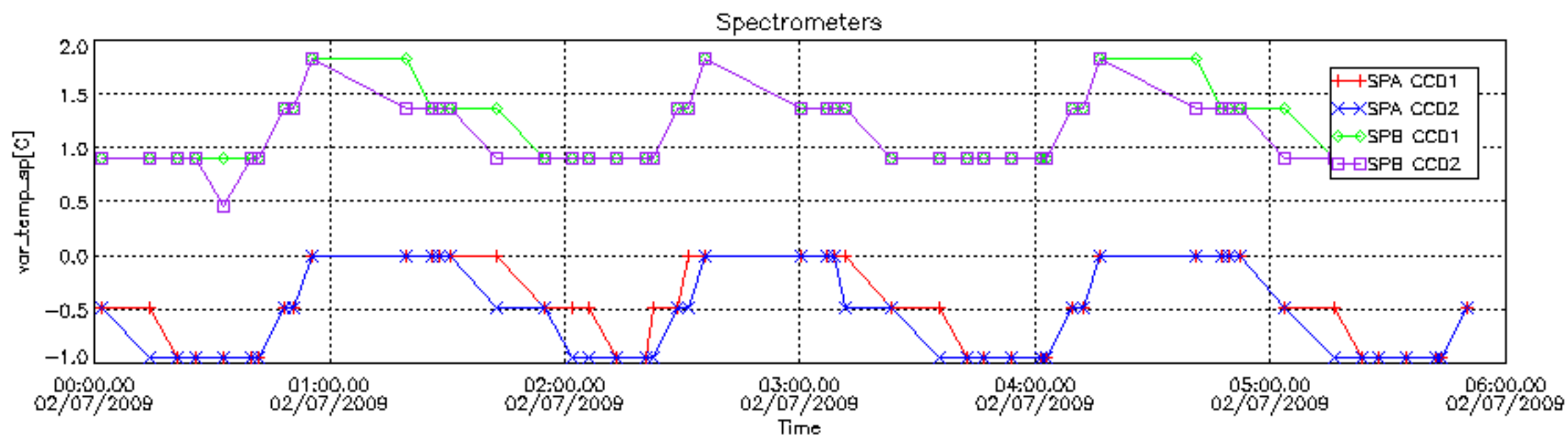
Lower curve: STD of SATU X axis

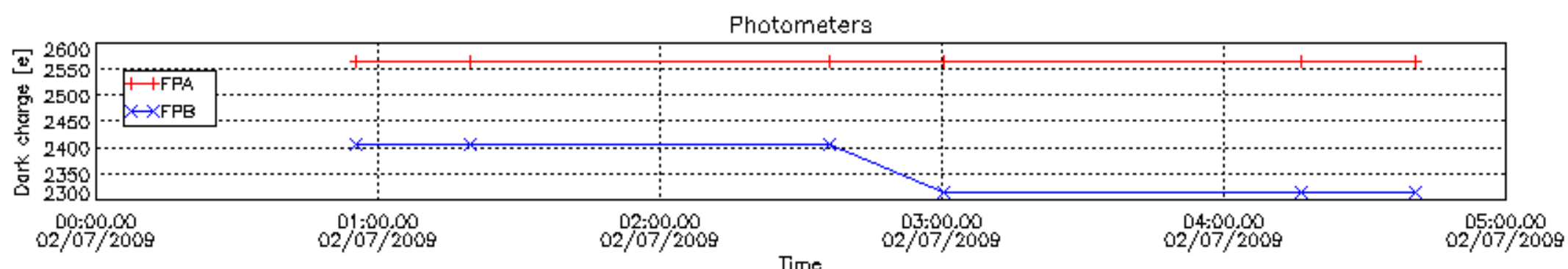
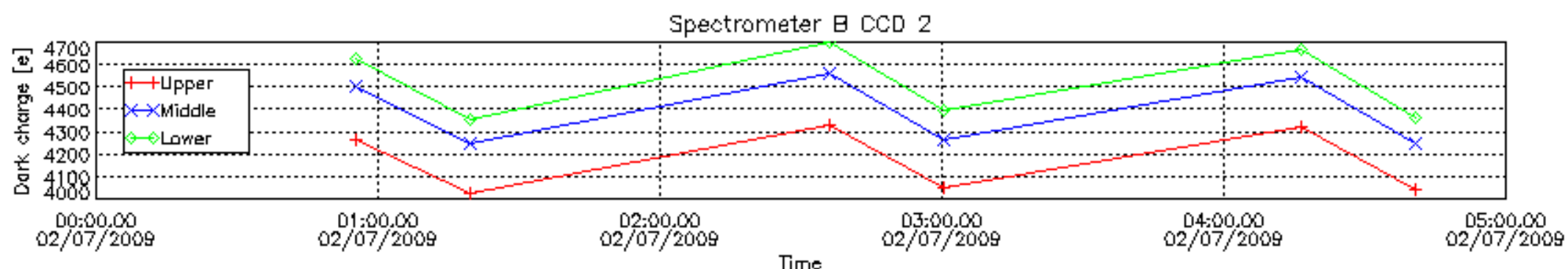
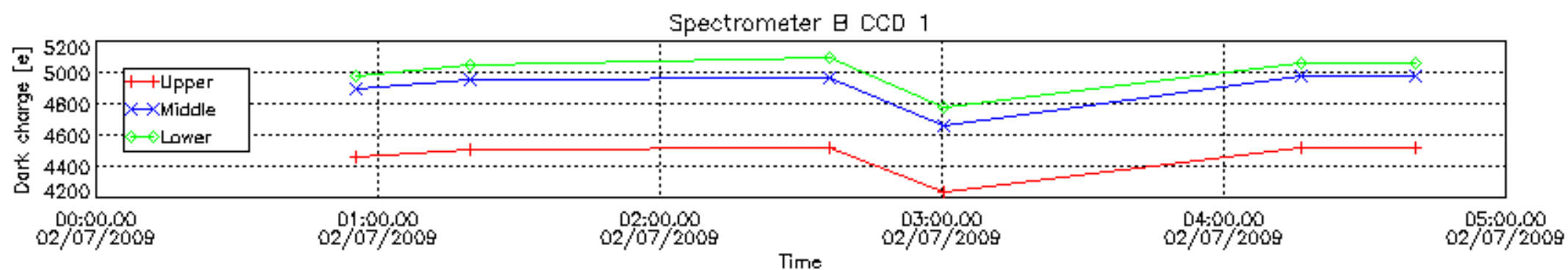
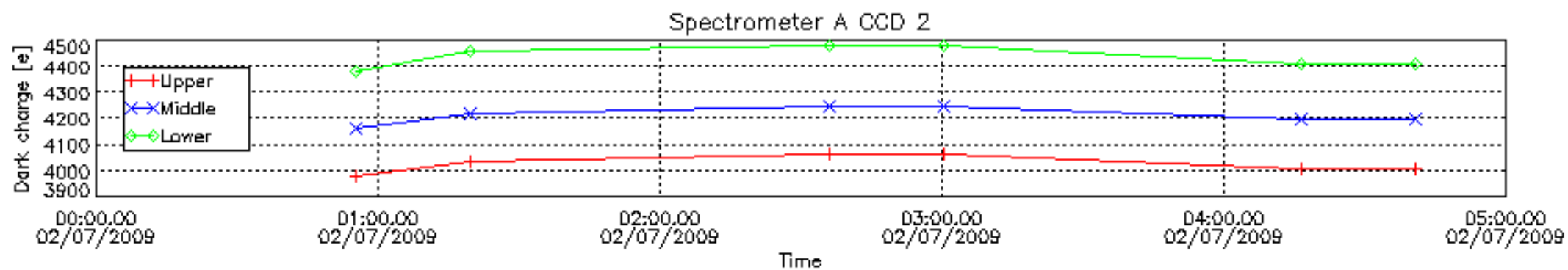
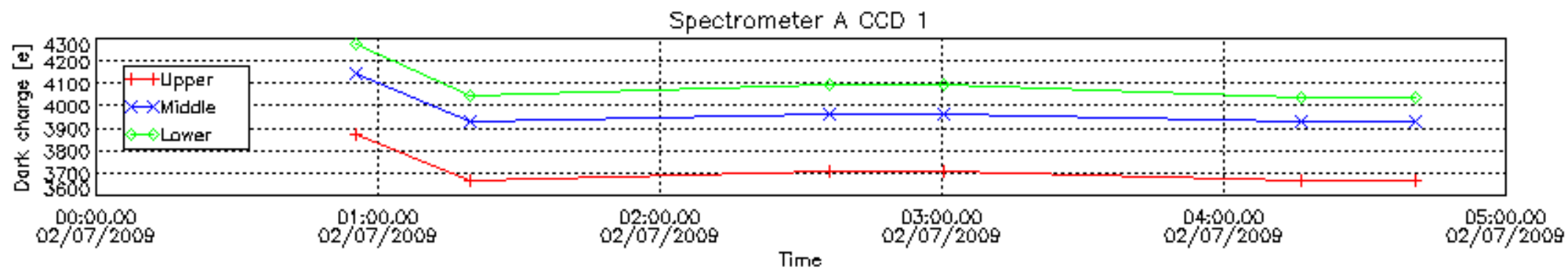


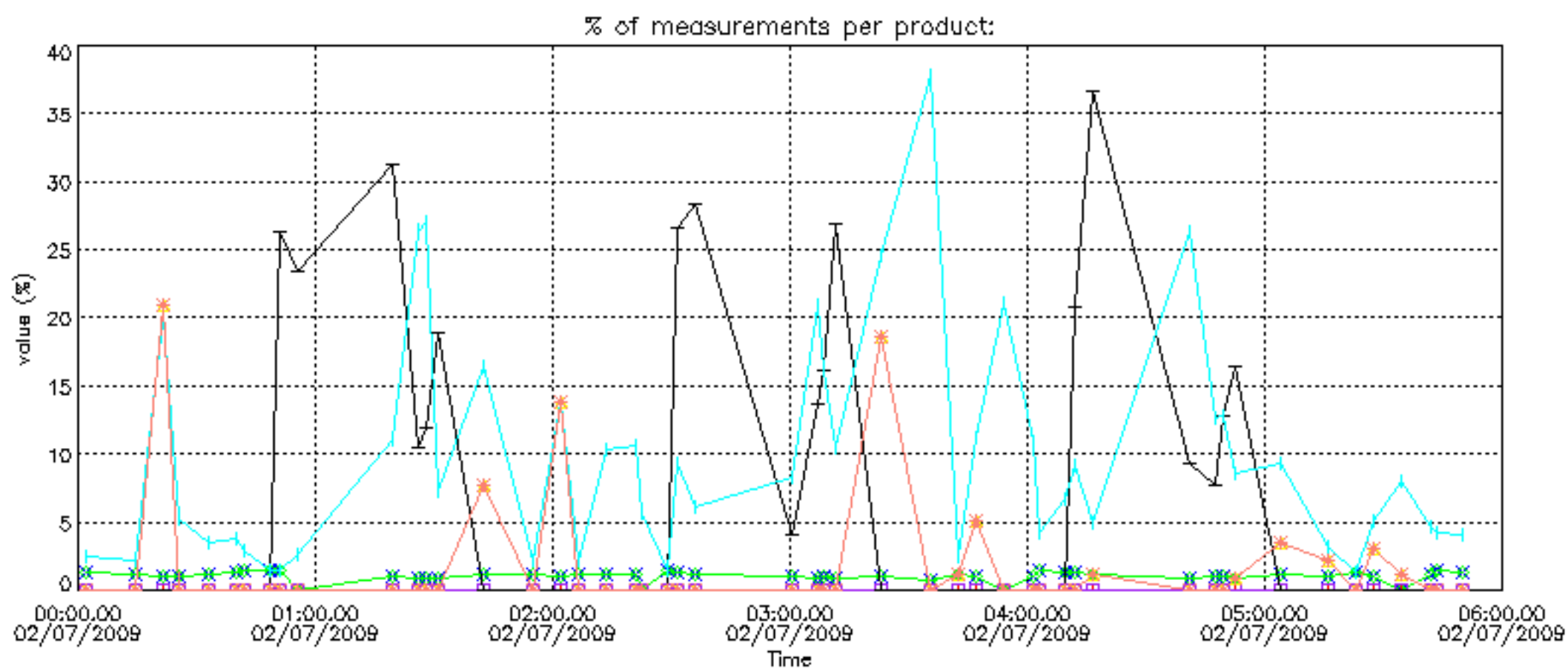
8. Auxiliary Data Files used for the production reported in section 2.4

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.

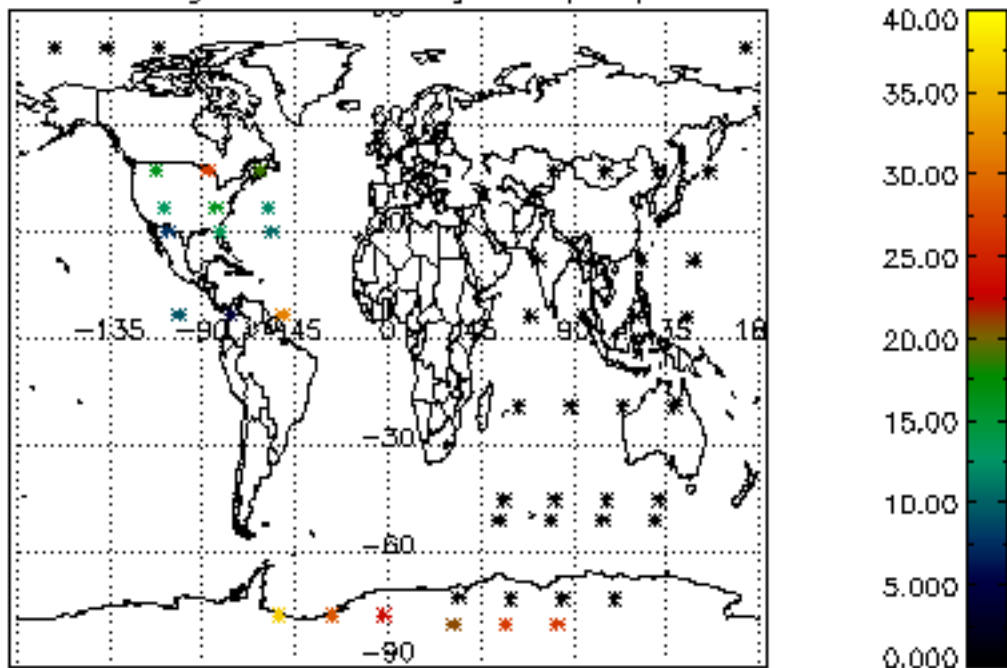
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	02-JUL-2009 00:01:57
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090701_074759_20090629_000000_20100101_000000	1	02-JUL-2009 00:01:57
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	02-JUL-2009 00:01:57
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-JUL-2009 00:01:57
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	02-JUL-2009 00:01:57
ECMWF_FILE	AUX_ECF_AXNECM20090701_101959_20090701_210000_20090702_090000	1	02-JUL-2009 00:01:57
ECMWF_FILE	AUX_ECF_AXNECM20090701_181952_20090702_030000_20090702_150000	34	02-JUL-2009 04:01:22
OPTIONAL_ECMWF_FILE	MISSING	1	02-JUL-2009 00:01:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090701_214146_000057382080_00229_38359_8265.N1	1	02-JUL-2009 00:01:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090701_232243_000057382080_00230_38360_8266.N1	11	02-JUL-2009 01:19:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090702_010340_000044632080_00231_38361_8267.N1	22	02-JUL-2009 02:28:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090702_022322_000054192080_00232_38362_8268.N1	34	02-JUL-2009 04:01:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090702_035900_000054192080_00233_38363_8269.N1	48	02-JUL-2009 05:41:57



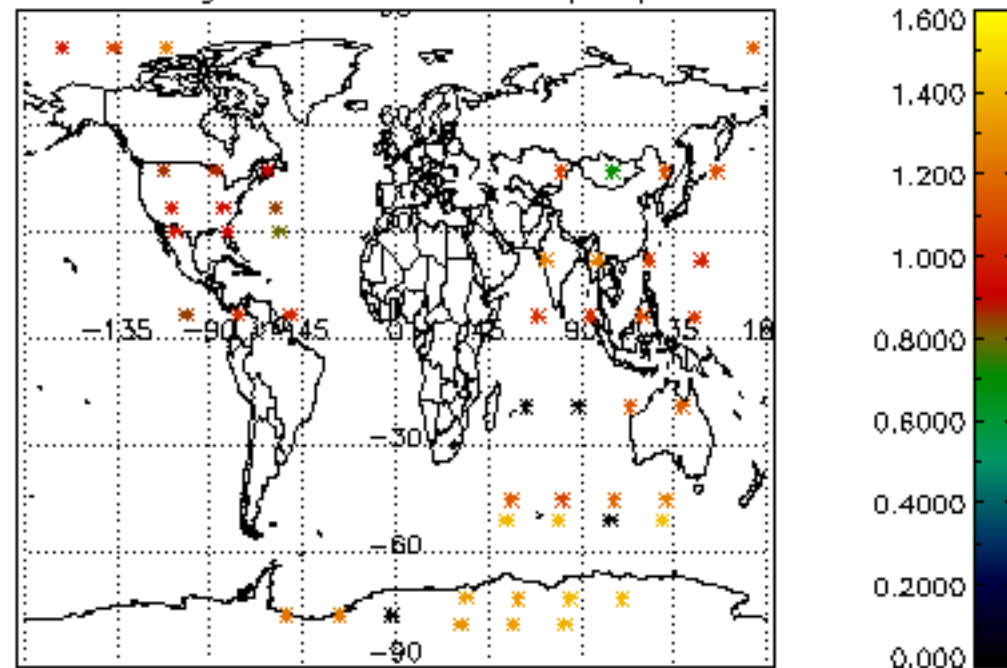




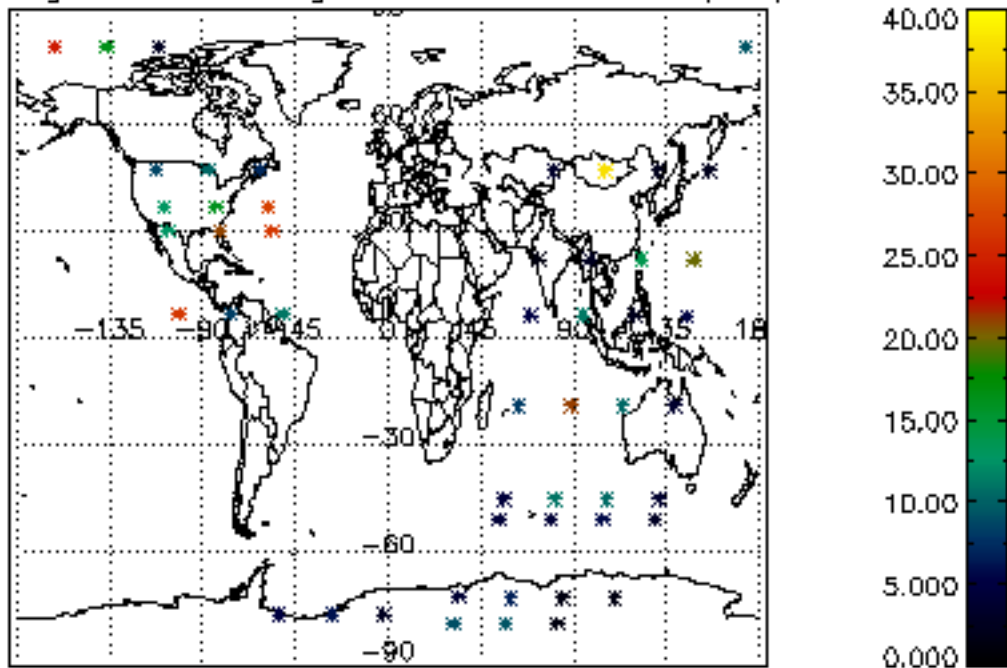
Percentage of cosmic ray hits per profile



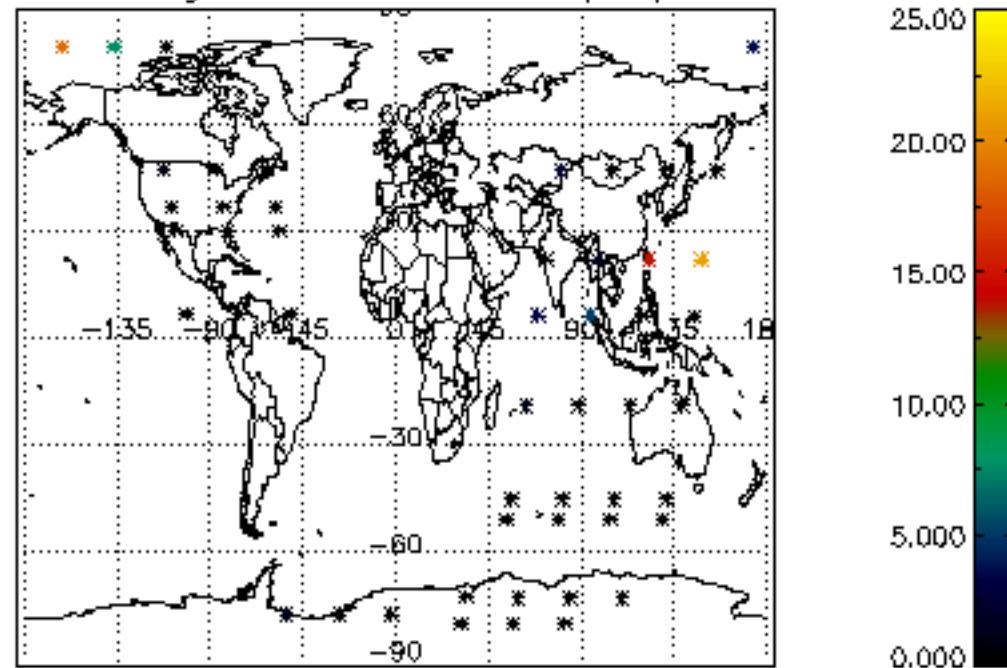
Percentage of datation errors per profile



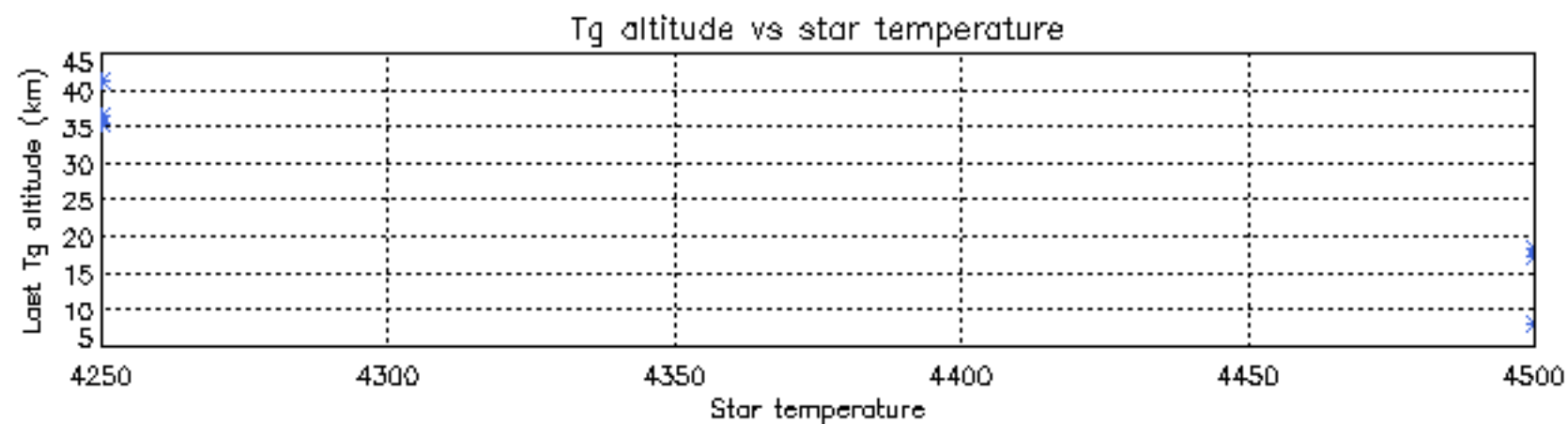
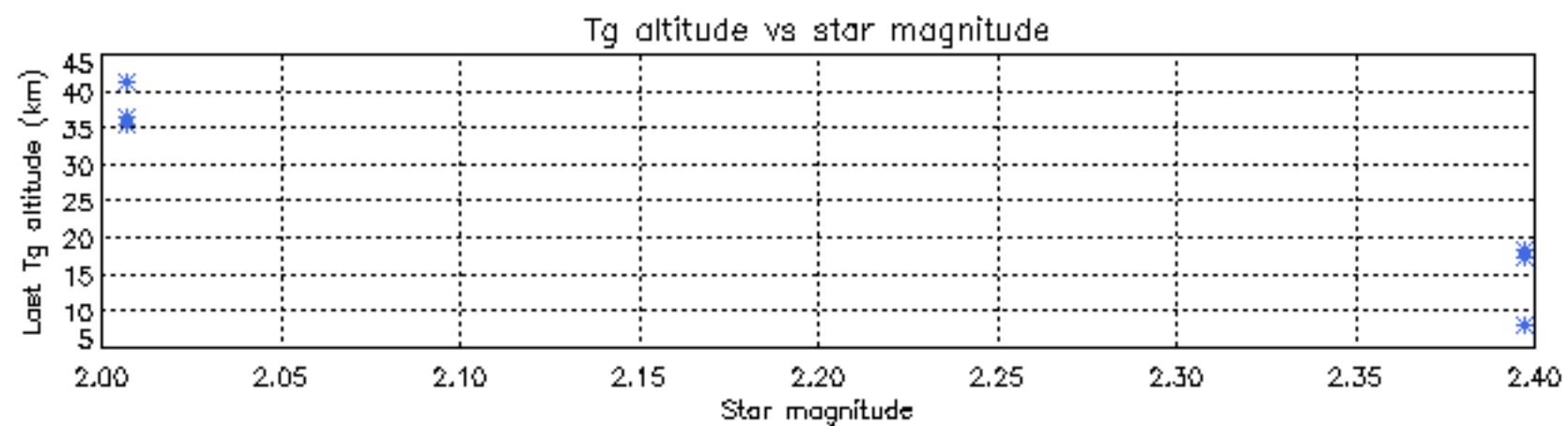
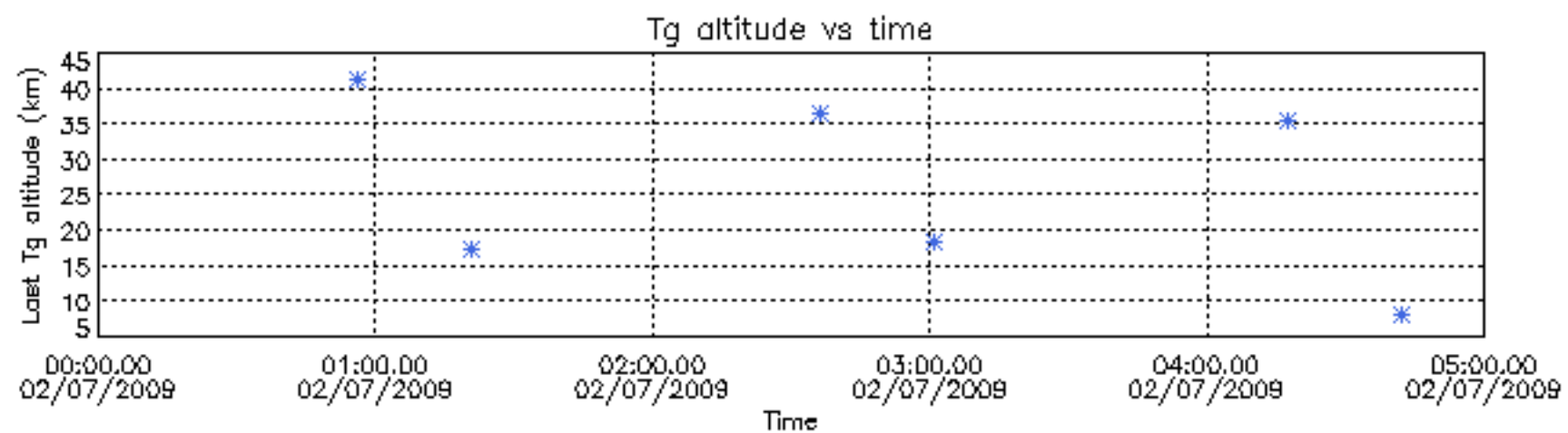
Percentage of star falling outside central band per profile



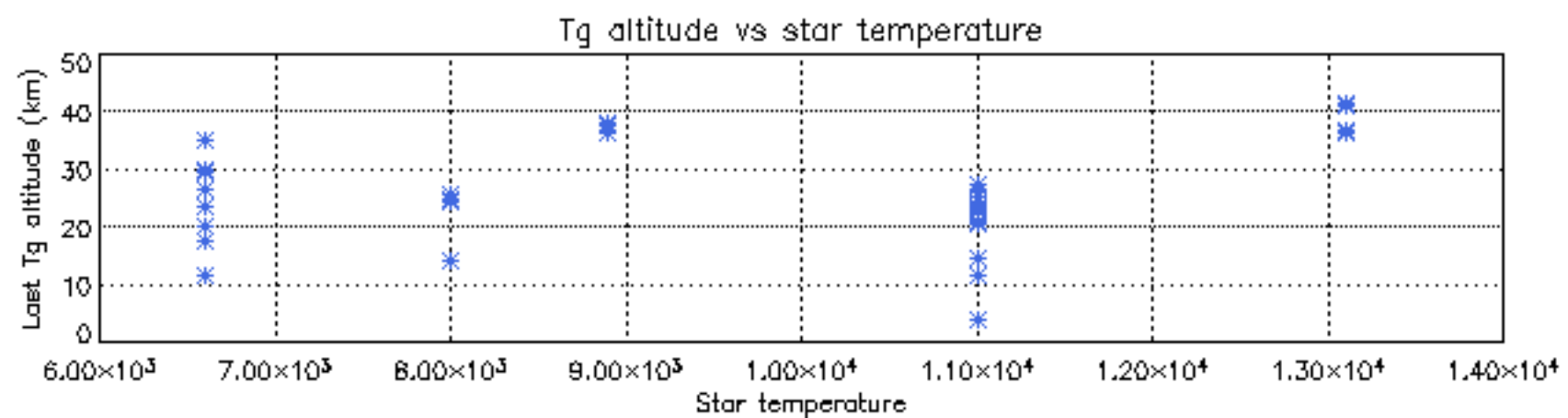
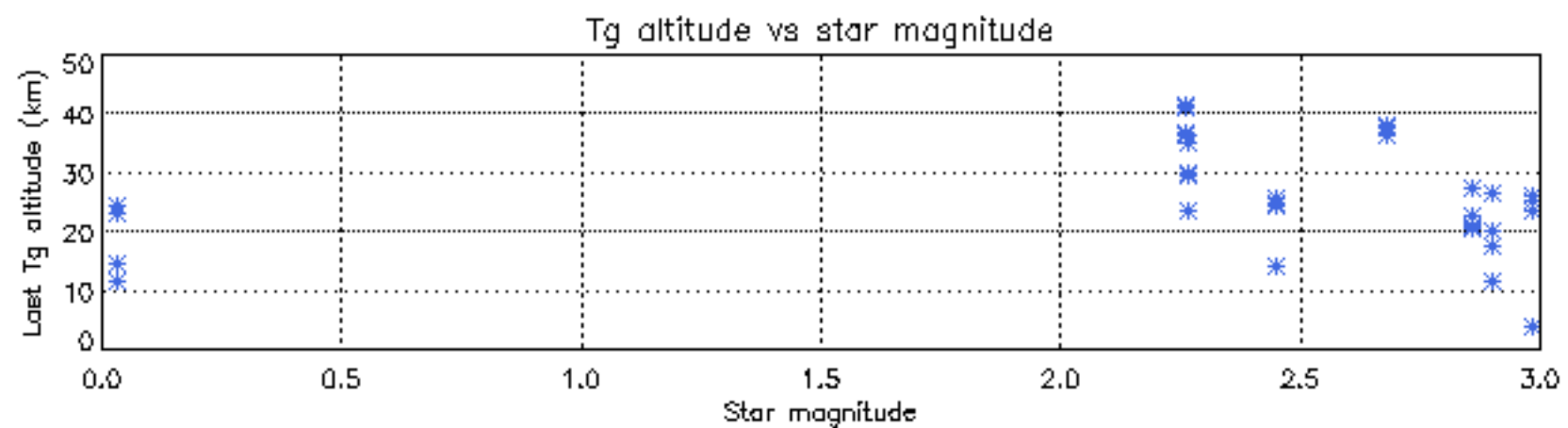
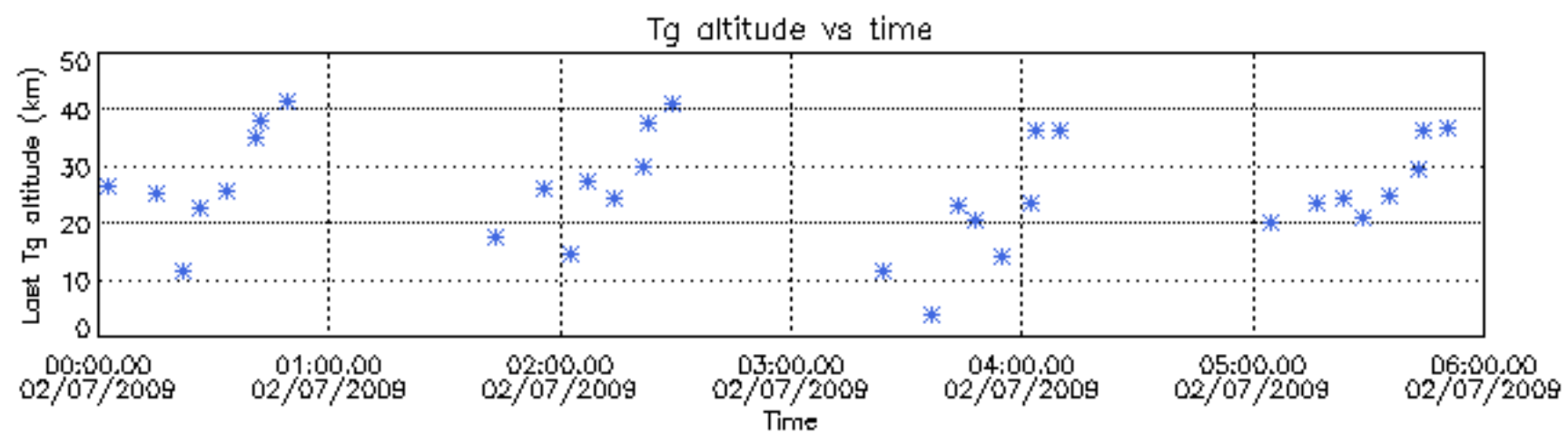
Percentage of saturation errors per profile

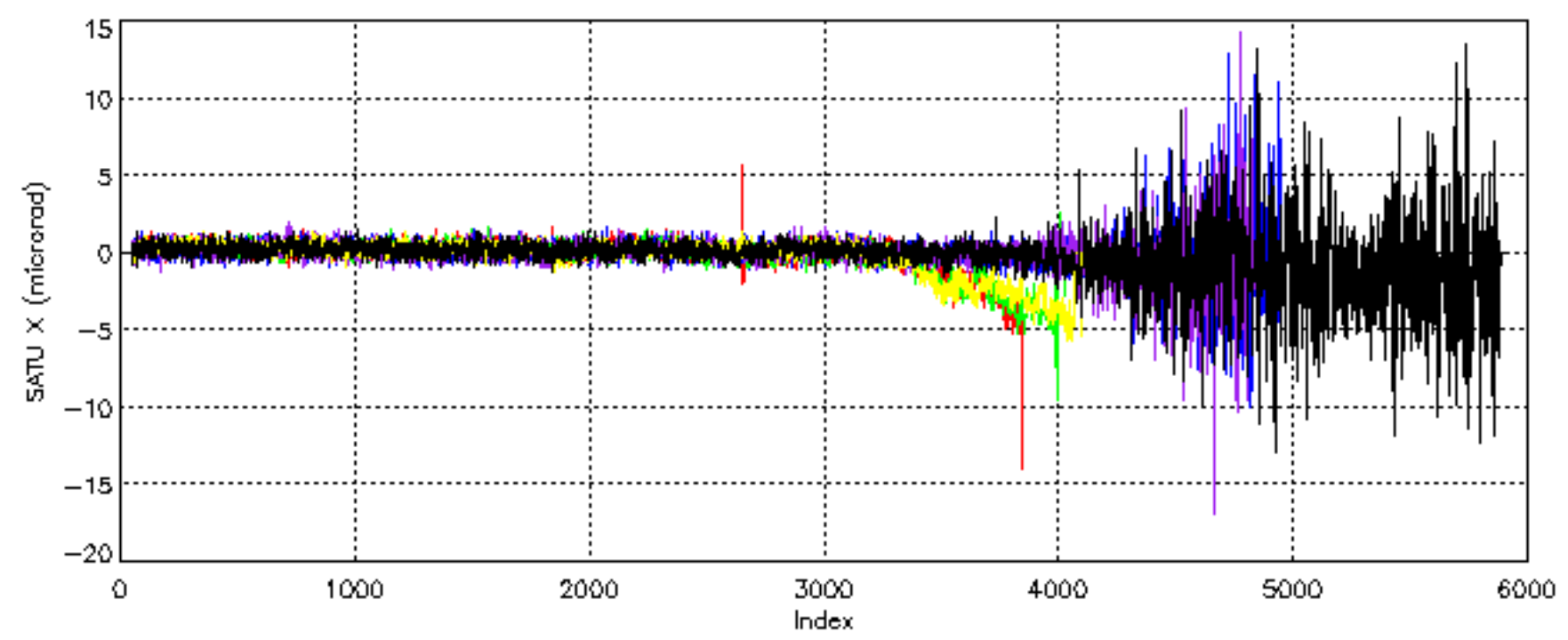


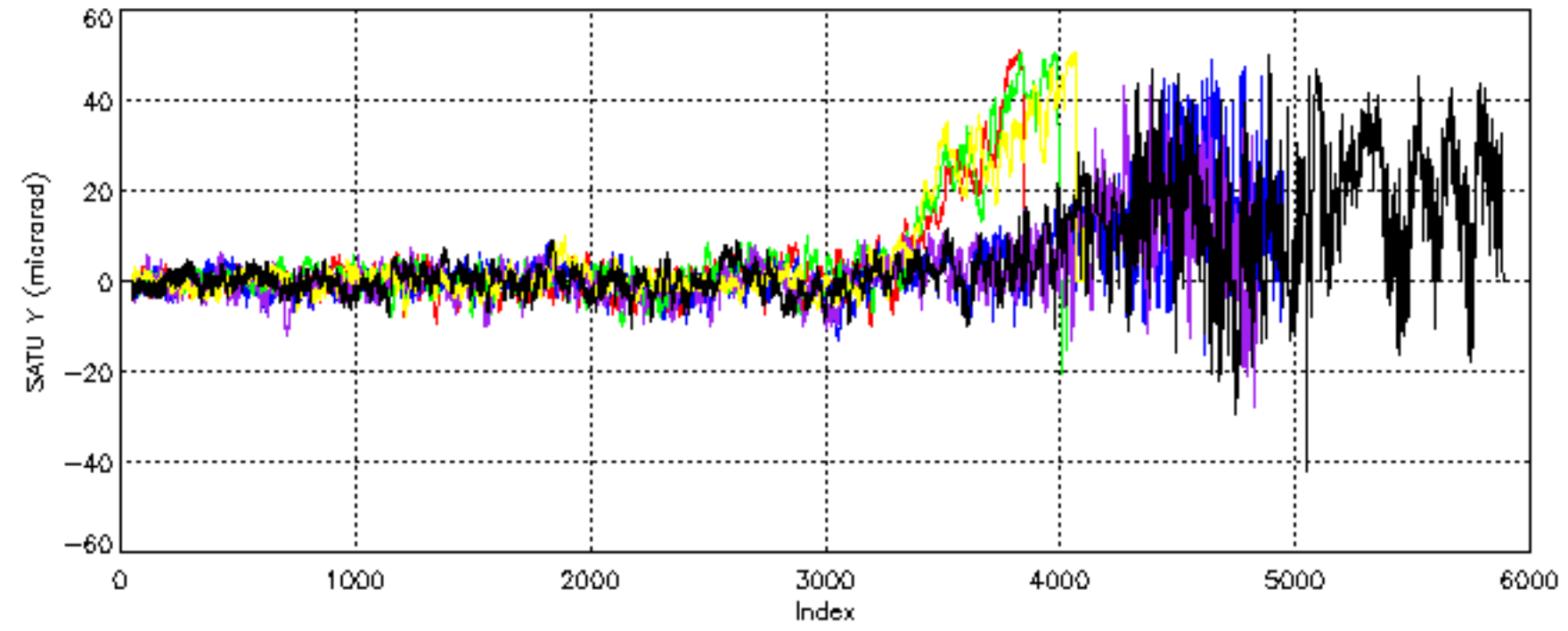
Tangent altitude at which the star is lost

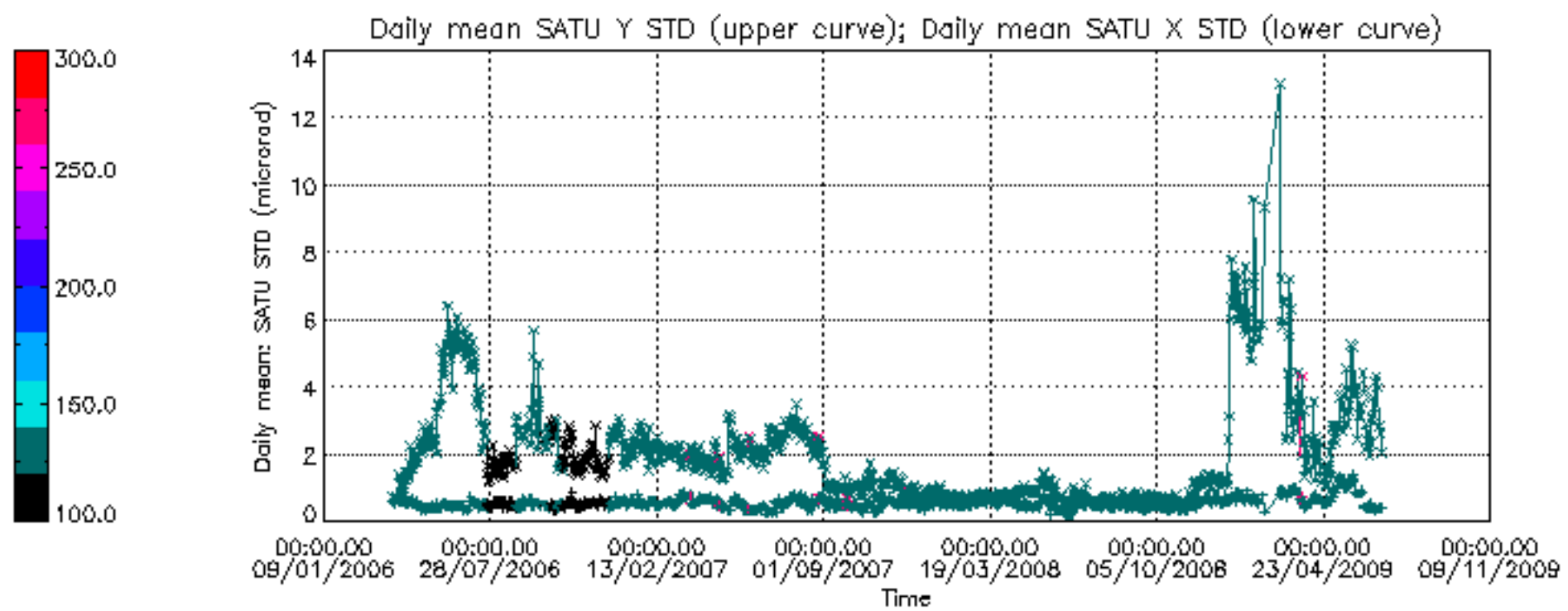


Tangent altitude at which the star is lost









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4; 2890.7; 03-JUL-2009 16:39:46; Bright; 49.5; 144; 18Del Cyg ; 2.86; 11000;occ; 99; 0;38385
5; 3318.4; 03-JUL-2009 16:46:54; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38385
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5; 3757.5; 04-JUL-2009 14:42:00; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;38398
6; 3861.4; 04-JUL-2009 14:43:44; Bright; 36.5; 110; 37Del Cas ; 2.68; 8900;occ; 73; 0;38398
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3; -1737.7; 09-JUL-2009 03:49:55; Bright; 35.0; 79; 26Bet Per ; 2.31; 13100;occ; 70; 0;38463
4; -1603.5; 09-JUL-2009 03:52:10; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;38463
5; -1000.2; 09-JUL-2009 04:02:13; Dark ; 41.5; 94; 92Alp Cet ; 2.53; 3100;occ; 83; 0;38463
6; -415.3; 09-JUL-2009 04:11:58; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38463
7; 223.4; 09-JUL-2009 04:22:37; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;38464
8; 596.9; 09-JUL-2009 04:28:50; Dark ; 65.0; 63; Bet Gru ; 2.15; 2800;occ; 130; 0;38464
9; 703.5; 09-JUL-2009 04:30:37; Dark ; 57.5; 31; Alp Gru ; 1.73; 15200;occ; 115; 0;38464
10; 891.2; 09-JUL-2009 04:33:44; Dark ; 53.5; 172; Gam Gru ; 3.00; 13100;occ; 107; 0;38464
11; 2182.5; 09-JUL-2009 04:55:16; Bright; 41.0; 168; 17Zet Aql ; 2.99; 11000;occ; 82; 0;38464
12; 2833.2; 09-JUL-2009 05:06:06; Bright; 44.5; 144; 18Del Cyg ; 2.86; 11000;occ; 89; 0;38464
13; 3266.9; 09-JUL-2009 05:13:20; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38464
14; 3718.3; 09-JUL-2009 05:20:51; Bright; 3.0; 74; 11Bet Cas ; 2.27; 6600;occ; 6; 0;38464
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2; -2197.8; 09-JUL-2009 05:22:51; Bright; 39.5; 110; 37Del Cas ; 2.68; 8900;occ; 79; 0;38464
3; -1737.8; 09-JUL-2009 05:30:31; Bright; 35.5; 79; 26Bet Per ; 2.31; 13100;occ; 71; 0;38464
4; -1603.2; 09-JUL-2009 05:32:46; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;38464
5; -999.6; 09-JUL-2009 05:42:50; Dark ; 42.0; 94; 92Alp Cet ; 2.53; 3100;occ; 84; 0;38464
6; -414.1; 09-JUL-2009 05:52:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38464
7; 224.7; 09-JUL-2009 06:03:14; Dark ; 51.5; 84; Alp Phe ; 2.40; 4500;occ; 103; 0;38465
8; 597.9; 09-JUL-2009 06:09:27; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38465
9; 704.2; 09-JUL-2009 06:11:13; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38465

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11; 2182.4; 09-JUL-2009 06:35:52; Bright; 45.0; 168; 17Zet Aql ; 2.99; 11000;occ; 90; 0;38465
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7; 225.8; 09-JUL-2009 07:43:51; Dark ; 64.0; 84; Alp Phe ; 2.40; 4500;occ; 128; 0;38466
8; 598.8; 09-JUL-2009 07:50:04; Dark ; 66.5; 63; Bet Gru ; 2.15; 2800;occ; 133; 0;38466
9; 704.8; 09-JUL-2009 07:51:50; Dark ; 56.5; 31; Alp Gru ; 1.73; 15200;occ; 113; 0;38466
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3; 3265.7; 09-JUL-2009 08:34:31; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38466
4; 3717.0; 09-JUL-2009 08:42:02; Bright; 45.5; 74; 11Bet Cas ; 2.27; 6600;occ; 91; 0;38466
5; 3837.6; 09-JUL-2009 08:44:03; Bright; 39.5; 110; 37Del Cas ; 2.68; 8900;occ; 79; 0;38466
6; 4255.4; 09-JUL-2009 08:51:00; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;38466
7; 4432.8; 09-JUL-2009 08:53:58; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;38466
8; 5037.4; 09-JUL-2009 09:04:03; Dark ; 43.0; 94; 92Alp Cet ; 2.53; 3100;occ; 86; 0;38466
9; 5624.1; 09-JUL-2009 09:13:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38466
10; 6263.0; 09-JUL-2009 09:24:28; Dark ; 63.0; 84; Alp Phe ; 2.40; 4500;occ; 126; 0;38466
11; 6635.5; 09-JUL-2009 09:30:41; Dark ; 60.0; 63; Bet Gru ; 2.15; 2800;occ; 120; 0;38466
12; 6741.6; 09-JUL-2009 09:32:27; Dark ; 53.0; 31; Alp Gru ; 1.73; 15200;occ; 106; 0;38466
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3; 3265.1; 09-JUL-2009 10:15:06; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38467
4; 3716.5; 09-JUL-2009 10:22:38; Bright; 52.5; 74; 11Bet Cas ; 2.27; 6600;occ; 105; 0;38467
5; 3837.0; 09-JUL-2009 10:24:38; Bright; 58.0; 110; 37Del Cas ; 2.68; 8900;occ; 116; 0;38467
6; 4255.1; 09-JUL-2009 10:31:36; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;38467
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9; 5625.3; 09-JUL-2009 10:54:26; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38467
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11; 6636.2; 09-JUL-2009 11:11:17; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;38467
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3; 3264.4; 09-JUL-2009 11:55:41; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;38468
4; 3715.8; 09-JUL-2009 12:03:13; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;38468
5; 3836.6; 09-JUL-2009 12:05:14; Bright; 65.0; 110; 37Del Cas ; 2.68; 8900;occ; 130; 0;38468
6; 4255.0; 09-JUL-2009 12:12:12; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;38468
7; 4432.8; 09-JUL-2009 12:15:10; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;38468
8; 5038.7; 09-JUL-2009 12:25:16; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;38468
9; 5626.4; 09-JUL-2009 12:35:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38468
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12; 6743.2; 09-JUL-2009 12:53:40; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38468
13; 6931.5; 09-JUL-2009 12:56:48; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;38468
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2; 2829.9; 09-JUL-2009 13:29:03; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;38469
3; 3263.8; 09-JUL-2009 13:36:17; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38469
4; 3715.2; 09-JUL-2009 13:43:48; Bright; 47.0; 74; 11Bet Cas ; 2.27; 6600;occ; 94; 0;38469
5; 3836.3; 09-JUL-2009 13:45:49; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;38469
6; 4254.9; 09-JUL-2009 13:52:48; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;38469
7; 4433.0; 09-JUL-2009 13:55:46; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;38469
8; 5039.3; 09-JUL-2009 14:05:52; Dark ; 43.5; 94; 92Alp Cet ; 2.53; 3100;occ; 87; 0;38469
9; 5627.6; 09-JUL-2009 14:15:40; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38469
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13; 6932.4; 09-JUL-2009 14:37:25; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38469
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3; 3261.3; 09-JUL-2009 20:18:38; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38473
4; 3712.6; 09-JUL-2009 20:26:09; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38473
5; 3834.6; 09-JUL-2009 20:28:11; Bright; 40.0; 110; 37Del Cas ; 2.68; 8900;occ; 80; 0;38473
6; 4254.2; 09-JUL-2009 20:35:11; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;38473
7; 4433.1; 09-JUL-2009 20:38:10; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;38473
8; 5041.7; 09-JUL-2009 20:48:18; Dark ; 9.0; 94; 92Alp Cet ; 2.53; 3100;occ; 18; 0;38473
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4; 606.0; 09-JUL-2009 21:14:59; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;38474
5; 711.2; 09-JUL-2009 21:16:44; Dark ; 54.5; 31; Alp Gru ; 1.73; 15200;occ; 109; 0;38474
6; 899.9; 09-JUL-2009 21:19:53; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;38474
7; 2179.3; 09-JUL-2009 21:41:12; Bright; 41.0; 168; 17Zet Aql ; 2.99; 11000;occ; 82; 0;38474
8; 2826.4; 09-JUL-2009 21:51:59; Bright; 45.5; 144; 18Del Cyg ; 2.86; 11000;occ; 91; 0;38474
9; 3260.6; 09-JUL-2009 21:59:13; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38474
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3; 606.7; 09-JUL-2009 22:55:35; Dark ; 54.0; 63; Bet Gru ; 2.15; 2800;occ; 108; 0;38475
4; 712.0; 09-JUL-2009 22:57:20; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38475
5; 900.6; 09-JUL-2009 23:00:29; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38475
6; 2178.8; 09-JUL-2009 23:21:47; Bright; 42.0; 168; 17Zet Aql ; 2.99; 11000;occ; 84; 0;38475
7; 2825.6; 09-JUL-2009 23:32:34; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;38475
8; 3260.1; 09-JUL-2009 23:39:49; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38475
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3; 3263.4; 09-JUL-2009 15:16:52; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38470
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8; 5039.7; 09-JUL-2009 15:46:28; Dark ; 40.5; 94; 92Alp Cet ; 2.53; 3100;occ; 81; 0;38470
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7; 4433.1; 09-JUL-2009 17:16:58; Dark ; 44.0; 173; 4Bet Tri ; 3.00; 8900;occ; 88; 0;38471
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2; 2786.8; 14-JUL-2009 14:11:27; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38541
3; 2934.4; 14-JUL-2009 14:13:54; Bright; 52.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 105; 0;38541
4; 3219.7; 14-JUL-2009 14:18:39; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38541
5; 3668.0; 14-JUL-2009 14:26:08; Bright; 73.0; 74; 11Bet Cas ; 2.27; 6600;occ; 146; 0;38541
6; 3806.8; 14-JUL-2009 14:28:27; Bright; 67.0; 110; 37Del Cas ; 2.68; 8900;occ; 134; 0;38541
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
10; 5086.1; 14-JUL-2009 14:49:46; Dark ; 63.5; 94; 92Alp Cet ; 2.53; 3100;occ; 127; 0;38541
11; 5431.3; 14-JUL-2009 14:55:31; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38541
12; 6347.5; 14-JUL-2009 15:10:47; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;38541
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
15; 6991.4; 14-JUL-2009 15:21:31; Dark ; 53.0; 172; Gam Gru ; 3.00; 13100;occ; 106; 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
7; 4042.7; 14-JUL-2009 16:12:58; Bright; 60.0; 160; 23Gam Per ; 2.93; 4700;occ; 120; 0;38542
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
16; 6992.3; 14-JUL-2009 17:02:08; Dark ; 53.5; 172; Gam Gru ; 3.00; 13100;occ; 107; 0;38542
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 3; 2784.7; 14-JUL-2009 20:53:48; Bright; 42.5; 144; 18Del Cyg ; 2.86; 11000;occ; 85; 0;38545
 4; 2930.8; 14-JUL-2009 20:56:14; Bright; 53.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 106; 0;38545
 5; 3217.3; 14-JUL-2009 21:01:01; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38545
 6; 3665.3; 14-JUL-2009 21:08:29; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38545
 7; 3805.1; 14-JUL-2009 21:10:49; Bright; 44.5; 110; 37Del Cas ; 2.68; 8900;occ; 89; 0;38545
 8; 4042.0; 14-JUL-2009 21:14:46; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;38545
 9; 4122.0; 14-JUL-2009 21:16:06; Bright; 49.0; 35; 33Alp Per ; 1.79; 6250;occ; 98; 0;38545
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11; 5088.9; 14-JUL-2009 21:32:13; Dark ; 60.0; 94; 92Alp Cet ; 2.53; 3100;occ; 120; 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
 4; 766.4; 14-JUL-2009 22:00:46; Dark ; 55.0; 31; Alp Gru ; 1.73; 15200;occ; 110; 0;38546
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 8; 2929.8; 14-JUL-2009 22:36:49; Bright; 52.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 104; 0;38546
 9; 3216.7; 14-JUL-2009 22:41:36; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38546
10; 3664.7; 14-JUL-2009 22:49:04; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;38546
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
13; 4121.8; 14-JUL-2009 22:56:41; Bright; 43.0; 35; 33Alp Per ; 1.79; 6250;occ; 86; 0;38546
14; 4297.3; 14-JUL-2009 22:59:37; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38546
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 2; 317.3; 14-JUL-2009 23:33:53; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;38547
 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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 5; 959.4; 14-JUL-2009 23:44:35; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 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
 8; 2928.8; 15-JUL-2009 00:17:24; Bright; 52.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 104; 0;38547
 9; 3216.0; 15-JUL-2009 00:22:11; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;38547
10; 3663.8; 15-JUL-2009 00:29:39; Bright; 65.0; 74; 11Bet Cas ; 2.27; 6600;occ; 130; 0;38547
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12; 4041.7; 15-JUL-2009 00:35:57; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 0;38547
13; 4121.8; 15-JUL-2009 00:37:17; Bright; 40.5; 35; 33Alp Per ; 1.79; 6250;occ; 81; 0;38547
14; 4297.3; 15-JUL-2009 00:40:13; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38547
15; 5090.4; 15-JUL-2009 00:53:26; Dark ; 61.5; 94; 92Alp Cet ; 2.53; 3100;occ; 123; 0;38547
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 2; 2785.7; 14-JUL-2009 17:32:37; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38543
 3; 2932.6; 14-JUL-2009 17:35:04; Bright; 52.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 104; 0;38543
 4; 3218.7; 14-JUL-2009 17:39:50; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38543
 5; 3666.7; 14-JUL-2009 17:47:18; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38543
 6; 3806.0; 14-JUL-2009 17:49:38; Bright; 42.5; 110; 37Del Cas ; 2.68; 8900;occ; 85; 0;38543
 7; 4042.4; 14-JUL-2009 17:53:34; Bright; 60.0; 160; 23Gam Per ; 2.93; 4700;occ; 120; 0;38543
 8; 4122.1; 14-JUL-2009 17:54:54; Bright; 40.0; 35; 33Alp Per ; 1.79; 6250;occ; 80; 0;38543
 9; 4242.4; 14-JUL-2009 17:56:54; Bright; 26.0; 73; 57Gam1And ; 2.26; 13100;occ; 52; 0;38543
10; 4297.4; 14-JUL-2009 17:57:49; Bright; 42.0; 79; 26Bet Per ; 2.31; 13100;occ; 84; 0;38543
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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 3; 2785.2; 14-JUL-2009 19:13:13; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38544
 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
 8; 4042.6; 14-JUL-2009 19:34:10; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;38544
 9; 4122.2; 14-JUL-2009 19:35:30; Bright; 59.0; 35; 33Alp Per ; 1.79; 6250;occ; 118; 0;38544
 10; 4297.4; 14-JUL-2009 19:38:25; Bright; 50.5; 79; 26Bet Per ; 2.31; 13100;occ; 101; 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
 13; 6350.9; 14-JUL-2009 20:12:39; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;38544
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 15; 6801.5; 14-JUL-2009 20:20:09; Dark ; 53.5; 31; Alp Gru ; 1.73; 15200;occ; 107; 0;38544
 16; 6994.0; 14-JUL-2009 20:23:22; Dark ; 15.0; 172; Gam Gru ; 3.00; 13100;occ; 30; 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
 7; 2783.0; 15-JUL-2009 01:55:34; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38548
 8; 2927.9; 15-JUL-2009 01:57:59; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;38548
 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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 11; 3803.7; 15-JUL-2009 02:12:35; Bright; 49.0; 110; 37Del Cas ; 2.68; 8900;occ; 98; 0;38548
 12; 4041.7; 15-JUL-2009 02:16:33; Bright; 50.0; 160; 23Gam Per ; 2.93; 4700;occ; 100; 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
 4; -944.8; 15-JUL-2009 02:34:02; Dark ; 60.5; 94; 92Alp Cet ; 2.53; 3100;occ; 121; 0;38548
 5; -598.4; 15-JUL-2009 02:39:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38548
 6; 319.4; 15-JUL-2009 02:55:07; Dark ; 52.0; 84; Alp Phe ; 2.40; 4500;occ; 104; 0;38549
 7; 670.9; 15-JUL-2009 03:00:58; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;38549
 8; 768.4; 15-JUL-2009 03:02:36; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38549
 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
 11; 2782.6; 15-JUL-2009 03:36:10; Bright; 43.0; 144; 18Del Cyg ; 2.86; 11000;occ; 86; 0;38549
 12; 2927.1; 15-JUL-2009 03:38:34; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 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
 5; -1738.6; 15-JUL-2009 04:01:25; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38549
 6; -944.0; 15-JUL-2009 04:14:39; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;38549
 7; -597.5; 15-JUL-2009 04:20:26; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38549
 8; 320.8; 15-JUL-2009 04:35:44; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;38550
 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
 12; 2109.0; 15-JUL-2009 05:05:32; Bright; 46.0; 11; 53Alp Aql ; 0.76; 8000;occ; 92; 0;38550
 13; 2782.0; 15-JUL-2009 05:16:45; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38550
 14; 2926.3; 15-JUL-2009 05:19:09; Bright; 51.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 103; 0;38550
 15; 3214.4; 15-JUL-2009 05:23:58; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38550
 16; 3662.0; 15-JUL-2009 05:31:25; Bright; 28.0; 74; 11Bet Cas ; 2.27; 6600;occ; 56; 0;38550

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 3; -1994.7; 15-JUL-2009 05:37:45; Bright; 41.0; 160; 23Gam Per ; 2.93; 4700;occ; 82; 0;38550
 4; -1914.7; 15-JUL-2009 05:39:05; Bright; 43.0; 35; 33Alp Per ; 1.79; 6250;occ; 86; 0;38550
 5; -1738.8; 15-JUL-2009 05:42:00; Bright; 48.0; 79; 26Bet Per ; 2.31; 13100;occ; 96; 0;38550
 6; -943.5; 15-JUL-2009 05:55:16; Dark ; 60.5; 94; 92Alp Cet ; 2.53; 3100;occ; 121; 0;38550

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8; 322.1; 15-JUL-2009 06:16:21; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;38551
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3; 705.0; 17-JUL-2009 23:46:05; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;38590
4; 797.7; 17-JUL-2009 23:47:38; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38590
5; 990.9; 17-JUL-2009 23:50:51; Dark ; 51.0; 172; Gam Gru ; 3.00; 13100;occ; 102; 0;38590
6; 2153.6; 18-JUL-2009 00:10:14; Bright; 37.5; 168; 17Zet Aql ; 2.99; 11000;occ; 75; 0;38590
7; 2762.2; 18-JUL-2009 00:20:23; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;38590
8; 2893.0; 18-JUL-2009 00:22:33; Bright; 49.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 99; 0;38590
9; 3191.2; 18-JUL-2009 00:27:32; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38590
10; 3633.9; 18-JUL-2009 00:34:54; Bright; 54.5; 74; 11Bet Cas ; 2.27; 6600;occ; 109; 0;38590
11; 3750.9; 18-JUL-2009 00:36:51; Bright; 44.0; 68; 18Alp Cas ; 2.22; 4500;occ; 88; 0;38590
12; 4034.1; 18-JUL-2009 00:41:34; Bright; 62.0; 160; 23Gam Per ; 2.93; 4700;occ; 124; 0;38590
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
15; 4473.8; 18-JUL-2009 00:48:54; Dark ; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0;38590
16; 5124.5; 18-JUL-2009 00:59:45; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 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
4; 984.0; 17-JUL-2009 07:04:45; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 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
4; 3196.9; 17-JUL-2009 07:41:38; Bright; 63.0; 89; 5Alp Cep ; 2.45; 8000;occ; 126; 0;38580
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
15; 6733.7; 17-JUL-2009 08:40:35; Dark ; 60.0; 63; Bet Gru ; 2.15; 2800;occ; 120; 0;38580
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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2; 2766.5; 17-JUL-2009 09:15:04; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38581
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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8; 4118.2; 17-JUL-2009 09:37:35; Bright; 60.0; 35; 33Alp Per ; 1.79; 6250;occ; 120; 0;38581
 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
 15; 6735.0; 17-JUL-2009 12:01:48; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38582
 16; 6828.8; 17-JUL-2009 12:03:22; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38582
 17; 7021.9; 17-JUL-2009 12:06:35; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38582

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 2;-2279.7; 17-JUL-2009 11:12:09; Bright; 51.0; 68; 18Alp Cas ; 2.22; 4500;occ; 102; 0;38582
 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
 13; 986.0; 17-JUL-2009 12:06:35; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 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
 17; 7022.6; 17-JUL-2009 13:47:11; Dark ; 51.0; 172; Gam Gru ; 3.00; 13100;occ; 102; 0;38583

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 3; 2897.8; 17-JUL-2009 14:19:03; Bright; 50.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 100; 0;38584
 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
 9; 4296.3; 17-JUL-2009 14:42:21; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38584
 10; 4473.4; 17-JUL-2009 14:45:18; Dark ; 41.0; 150; 44Zet Per ; 2.89; 28000;occ; 82; 0;38584
 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
 15; 6736.7; 17-JUL-2009 15:23:01; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38584
 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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 4; 3194.1; 17-JUL-2009 16:04:35; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38585
 5; 3637.4; 17-JUL-2009 16:11:58; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38585
 6; 3754.4; 17-JUL-2009 16:13:55; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;38585
 7; 4035.3; 17-JUL-2009 16:18:36; Bright; 50.0; 160; 23Gam Per ; 2.93; 4700;occ; 100; 0;38585
 8; 4117.9; 17-JUL-2009 16:19:59; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38585
 9; 4296.1; 17-JUL-2009 16:22:57; Bright; 49.0; 79; 26Bet Per ; 2.31; 13100;occ; 98; 0;38585
 10; 4473.3; 17-JUL-2009 16:25:54; Dark ; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;38585
 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
 7; 4034.9; 17-JUL-2009 17:59:12; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38586
 8; 4117.8; 17-JUL-2009 18:00:34; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38586
 9; 4295.9; 17-JUL-2009 18:03:33; Bright; 47.0; 79; 26Bet Per ; 2.31; 13100;occ; 94; 0;38586
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 11; 4630.5; 17-JUL-2009 18:09:07; Dark ; 43.5; 146; 25Eta Tau ; 2.87; 15200;occ; 87; 0;38586
 12; 5121.0; 17-JUL-2009 18:17:18; Dark ; 60.0; 94; 92Alp Cet ; 2.53; 3100;occ; 120; 0;38586
 13; 5473.2; 17-JUL-2009 18:23:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38586
 14; 6399.4; 17-JUL-2009 18:38:36; Dark ; 58.5; 84; Alp Phe ; 2.40; 4500;occ; 117; 0;38586
 15; 6738.6; 17-JUL-2009 18:44:15; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;38586
 16; 6831.7; 17-JUL-2009 18:45:48; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;38586
 17; 7024.7; 17-JUL-2009 18:49:01; Dark ; 49.5; 172; Gam Gru ; 3.00; 13100;occ; 99; 0;38586

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 3; 705.6; 18-JUL-2009 01:26:42; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;38591
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 3; 2856.7; 21-JUL-2009 10:31:18; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38639
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9; 4317.4; 24-JUL-2009 16:03:11; Bright; 41.5; 149; 45Eps Per ; 2.89; 30000;occ; 83; 0;38685
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13; 5360.3; 24-JUL-2009 16:20:34; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;38685
14; 5583.8; 24-JUL-2009 16:24:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38685
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5; 3562.4; 24-JUL-2009 17:31:12; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38686
6; 3665.8; 24-JUL-2009 17:32:55; Bright; 49.0; 76; 27Gam Cas ; 2.30; 30000;occ; 98; 0;38686
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9; 4289.2; 24-JUL-2009 17:43:18; Bright; 52.0; 79; 26Bet Per ; 2.31; 13100;occ; 104; 0;38686
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11; 4658.1; 24-JUL-2009 17:49:27; Dark ; 51.0; 146; 25Eta Tau ; 2.87; 15200;occ; 102; 0;38686
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15; 5918.7; 24-JUL-2009 18:10:28; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38686
16; 6514.3; 24-JUL-2009 18:20:24; Dark ; 63.0; 84; Alp Phe ; 2.40; 4500;occ; 126; 0;38686
17; 6897.0; 24-JUL-2009 18:26:46; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;38686

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3; 2646.0; 24-JUL-2009 18:56:31; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38687
4; 2823.9; 24-JUL-2009 18:59:29; Bright; 59.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 119; 0;38687
5; 3139.5; 24-JUL-2009 19:04:45; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38687
6; 3561.5; 24-JUL-2009 19:11:47; Bright; 54.0; 74; 11Bet Cas ; 2.27; 6600;occ; 108; 0;38687
7; 3665.2; 24-JUL-2009 19:13:31; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38687
8; 4011.9; 24-JUL-2009 19:19:17; Bright; 63.5; 160; 23Gam Per ; 2.93; 4700;occ; 127; 0;38687
9; 4102.5; 24-JUL-2009 19:20:48; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38687
10; 4289.1; 24-JUL-2009 19:23:54; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38687
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12; 4658.4; 24-JUL-2009 19:30:04; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;38687
13; 4753.6; 24-JUL-2009 19:31:39; Dark ; 58.0; 13; 87Alp Tau ; 0.87; 3800;occ; 116; 0;38687
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16; 5919.5; 24-JUL-2009 19:51:05; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;38687
17; 6515.4; 24-JUL-2009 20:01:01; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38687
18; 6897.5; 24-JUL-2009 20:07:23; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38687
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 6; 1055.5; 25-JUL-2009 01:12:24; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38691
 7; 2071.3; 25-JUL-2009 01:29:20; Bright; 40.0; 11; 53Alp Aql ; 0.76; 8000;occ; 80; 0;38691
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 9; 2821.3; 25-JUL-2009 01:41:50; Bright; 46.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 92; 0;38691
 10; 3137.5; 25-JUL-2009 01:47:06; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38691
 11; 3558.4; 25-JUL-2009 01:54:07; Bright; 53.5; 74; 11Bet Cas ; 2.27; 6600;occ; 107; 0;38691
 12; 3662.6; 25-JUL-2009 01:55:51; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38691
 13; 4010.7; 25-JUL-2009 02:01:40; Bright; 65.0; 160; 23Gam Per ; 2.93; 4700;occ; 130; 0;38691
 14; 4101.7; 25-JUL-2009 02:03:11; Bright; 47.0; 35; 33Alp Per ; 1.79; 6250;occ; 94; 0;38691
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 16; 4487.6; 25-JUL-2009 02:09:37; Dark ; 49.0; 150; 44Zet Per ; 2.89; 28000;occ; 98; 0;38691
 17; 4659.6; 25-JUL-2009 02:12:28; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;38691
 18; 4754.9; 25-JUL-2009 02:14:04; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;38691

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 3; -113.2; 25-JUL-2009 02:33:32; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38691
 4; 483.9; 25-JUL-2009 02:43:29; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38692
 5; 863.9; 25-JUL-2009 02:49:49; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38692
 6; 1056.2; 25-JUL-2009 02:53:01; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38692
 7; 2071.2; 25-JUL-2009 03:09:56; Bright; 42.5; 11; 53Alp Aql ; 0.76; 8000;occ; 85; 0;38692
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 9; 2820.6; 25-JUL-2009 03:22:25; Bright; 42.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 85; 0;38692
 10; 3137.2; 25-JUL-2009 03:27:42; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38692
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 4; -1934.5; 25-JUL-2009 03:43:46; Bright; 47.0; 35; 33Alp Per ; 1.79; 6250;occ; 94; 0;38692
 5; -1747.5; 25-JUL-2009 03:46:53; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38692
 6; -1548.3; 25-JUL-2009 03:50:12; Dark ; 50.0; 150; 44Zet Per ; 2.89; 28000;occ; 100; 0;38692
 7; -1376.1; 25-JUL-2009 03:53:05; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38692
 8; -1280.9; 25-JUL-2009 03:54:40; Dark ; 58.0; 13; 87Alp Tau ; 0.87; 3800;occ; 116; 0;38692
 9; -670.6; 25-JUL-2009 04:04:50; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;38692
 10; -443.3; 25-JUL-2009 04:08:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38692
 11; -112.3; 25-JUL-2009 04:14:08; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;38692
 12; 484.9; 25-JUL-2009 04:24:06; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38693
 13; 864.4; 25-JUL-2009 04:30:25; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;38693
 14; 1056.7; 25-JUL-2009 04:33:37; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38693
 15; 2070.9; 25-JUL-2009 04:50:32; Bright; 40.5; 11; 53Alp Aql ; 0.76; 8000;occ; 81; 0;38693
 16; 2641.4; 25-JUL-2009 05:00:02; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38693
 17; 2820.1; 25-JUL-2009 05:03:01; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38693
 18; 3136.6; 25-JUL-2009 05:08:17; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38693
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 3; -1934.8; 25-JUL-2009 05:24:22; Bright; 47.5; 35; 33Alp Per ; 1.79; 6250;occ; 95; 0;38693
 4; -1747.4; 25-JUL-2009 05:27:29; Bright; 51.5; 79; 26Bet Per ; 2.31; 13100;occ; 103; 0;38693
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 8; -669.7; 25-JUL-2009 05:45:27; Dark ; 49.0; 165; 34Gam Eri ; 2.95; 3200;occ; 98; 0;38693
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 13; 1057.3; 25-JUL-2009 06:14:14; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38694
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 16; 2819.3; 25-JUL-2009 06:43:36; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38694


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3; 2634.7; 25-JUL-2009 20:05:19; Bright; 46.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 92; 0;38702
4; 2814.4; 25-JUL-2009 20:08:19; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38702
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8; 4007.6; 25-JUL-2009 20:28:12; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38702
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12; 4663.1; 25-JUL-2009 20:39:07; Dark ; 51.0; 146; 25Eta Tau ; 2.87; 15200;occ; 102; 0;38702
13; 4758.1; 25-JUL-2009 20:40:42; Dark ; 43.5; 13; 87Alp Tau ; 0.87; 3800;occ; 87; 0;38702
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5; 870.6; 25-JUL-2009 21:16:31; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;38703
6; 1062.3; 25-JUL-2009 21:19:43; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38703
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16; 4489.1; 25-JUL-2009 22:16:49; Dark ; 49.5; 150; 44Zet Per ; 2.89; 28000;occ; 99; 0;38703
17; 4663.3; 25-JUL-2009 22:19:43; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38703
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13; 4007.0; 25-JUL-2009 23:49:23; Bright; 43.0; 160; 23Gam Per ; 2.93; 4700;occ; 86; 0;38704
14; 4098.9; 25-JUL-2009 23:50:55; Bright; 47.0; 35; 33Alp Per ; 1.79; 6250;occ; 94; 0;38704
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16; 4489.3; 25-JUL-2009 23:57:25; Dark ; 46.5; 150; 44Zet Per ; 2.89; 28000;occ; 93; 0;38704
17; 4663.7; 26-JUL-2009 00:00:20; Dark ; 51.0; 146; 25Eta Tau ; 2.87; 15200;occ; 102; 0;38704
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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
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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
18; 7094.3; 25-JUL-2009 09:35:27; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 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
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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
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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
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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
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 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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 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
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 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
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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
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 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
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 11; 3116.1; 28-JUL-2009 03:33:06; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38735
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 6; -1542.3; 28-JUL-2009 03:56:03; Dark ; 49.5; 150; 44Zet Per ; 2.89; 28000;occ; 99; 0;38735
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 5; 2705.8; 28-JUL-2009 20:12:15; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;38745
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6; 3623.1; 29-JUL-2009 08:11:44; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38752
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