

GOMOS Daily Report 08-JUN-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	11JUN2009 04:37:30
Data source version	GOMOS/5.00
Start time of products	08JUN2009 00:04:37
Stop time of products	08JUN2009 06:22:14
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)

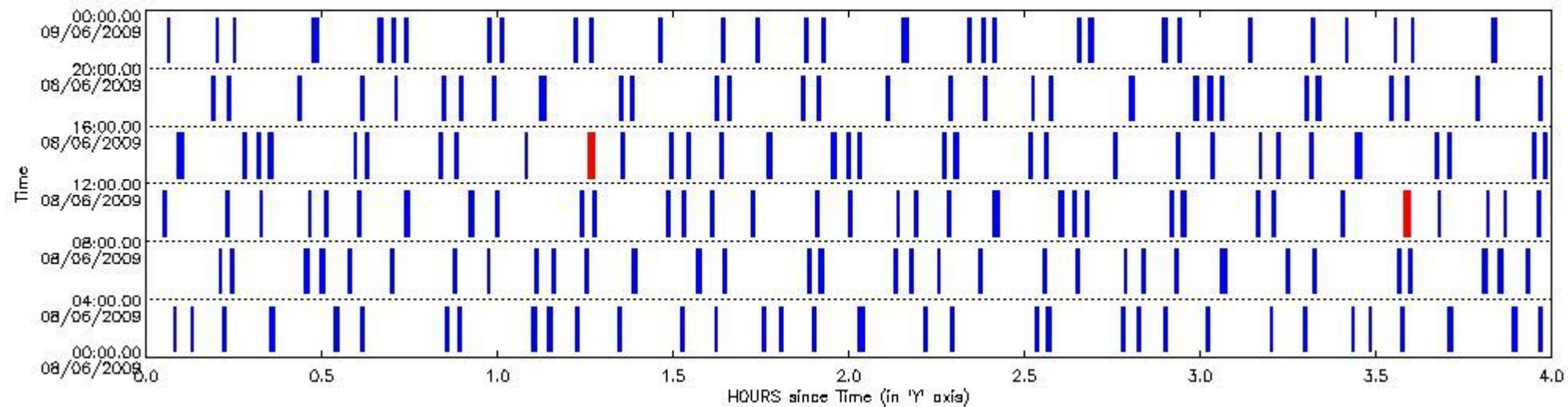
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

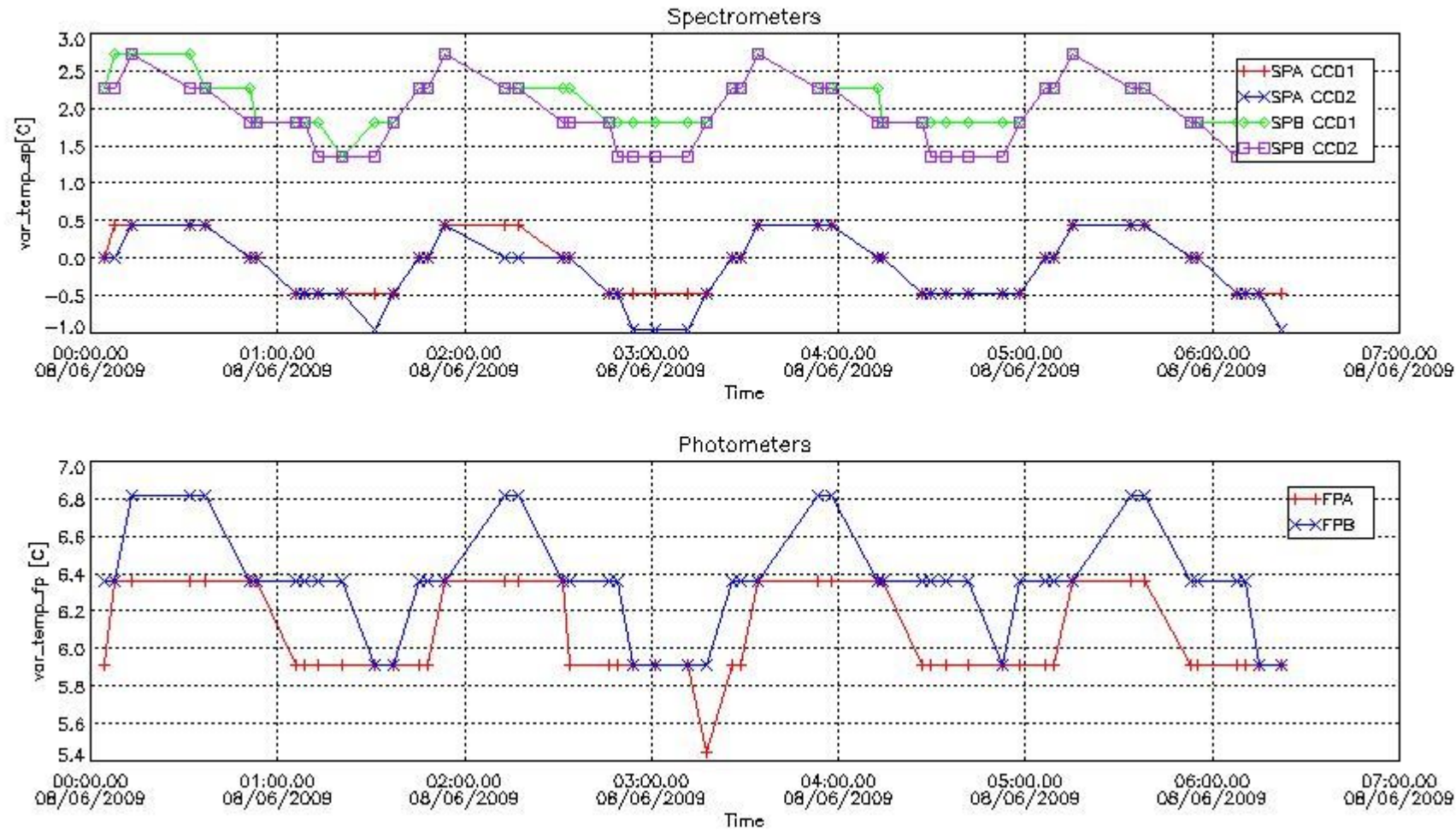
UTC start time	Star name	Star ID	Orbit
08-JUN-2009 11:34:46	5AlpCep	89	38024
08-JUN-2009 13:15:21	5AlpCep	89	38025

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_1PNPDE20090608_000437_000000242079_00388_38017_9754.N1	08-JUN-2009 00:04:37	Twilight_and_stray	24.000	53	43Bet And	2.0480	3300.0	48	38017	No
2	GOM_TRA_1PNPDE20090608_000731_000000312079_00388_38017_9755.N1	08-JUN-2009 00:07:31	Straylight	30.500	58	21Alp And	2.0730	11000.	61	38017	No
3	GOM_TRA_1PNPDE20090608_001306_000000332079_00388_38017_9756.N1	08-JUN-2009 00:13:06	Dark	32.500	140	88Gam Peg	2.8340	26000.	65	38017	No
4	GOM_TRA_1PNPDE20090608_003205_000000422079_00389_38018_9877.N1	08-JUN-2009 00:32:05	Dark	42.000	18	24Alp PsA	1.1660	9700.0	84	38018	No
5	GOM_TRA_1PNPDE20090608_003636_000000342079_00389_38018_9878.N1	08-JUN-2009 00:36:36	Dark	34.000	31	Alp Gru	1.7340	15200.	68	38018	No
6	GOM_TRA_1PNPDE20090608_005108_000000322079_00389_38018_9879.N1	08-JUN-2009 00:51:08	Twilight_and_stray	31.500	38	20Eps Sgr	1.8360	11000.	63	38018	No
7	GOM_TRA_1PNPDE20090608_005307_000000382079_00389_38018_9880.N1	08-JUN-2009 00:53:07	Twilight_and_stray	38.000	57	34Sig Sgr	2.0660	26000.	76	38018	No
8	GOM_TRA_1PNPDE20090608_010553_000000372079_00389_38018_9881.N1	08-JUN-2009 01:05:53	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	38018	No
9	GOM_TRA_1PNPDE20090608_010834_000000362079_00389_38018_9882.N1	08-JUN-2009 01:08:34	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	38018	No

10	GOM_TRA_1PNPDE20090608_011317_000000302079_00389_38018_9883.N1	08-JUN-2009 01:13:17	Bright	30.000	133	40Zet Her	2.8070	6000.0	60	38018	No
11	GOM_TRA_1PNPDE20090608_012028_000000312079_00389_38018_9884.N1	08-JUN-2009 01:20:28	Bright	31.000	130	23Bet Dra	2.7990	5800.0	62	38018	No
12	GOM_TRA_1PNPDE20090608_013116_000000312079_00389_38018_9885.N1	08-JUN-2009 01:31:16	Twilight	31.000	89	5Alp Cep	2.4510	8000.0	62	38018	No
13	GOM_TRA_1PNPDE20090608_013701_000000262079_00389_38018_9886.N1	08-JUN-2009 01:37:01	Twilight	25.500	74	11Bet Cas	2.2680	6600.0	51	38018	No
14	GOM_TRA_1PNPDE20090608_014513_000000242079_00389_38018_9887.N1	08-JUN-2009 01:45:13	Twilight	24.000	53	43Bet And	2.0480	3300.0	48	38018	No
15	GOM_TRA_1PNPDE20090608_014808_000000302079_00389_38018_9888.N1	08-JUN-2009 01:48:08	Straylight	30.000	58	21Alp And	2.0730	11000.	60	38018	No
16	GOM_TRA_1PNPDE20090608_015342_000000332079_00389_38018_9889.N1	08-JUN-2009 01:53:42	Dark	32.500	140	88Gam Peg	2.8340	26000.	65	38018	No
17	GOM_TRA_1PNPDE20090608_021242_000000422079_00390_38019_0017.N1	08-JUN-2009 02:12:42	Dark	42.000	18	24Alp PsA	1.1660	9700.0	84	38019	No
18	GOM_TRA_1PNPDE20090608_021713_000000342079_00390_38019_0018.N1	08-JUN-2009 02:17:13	Dark	34.000	31	Alp Gru	1.7340	15200.	68	38019	No
19	GOM_TRA_1PNPDE20090608_023144_000000322079_00390_38019_0019.N1	08-JUN-2009 02:31:44	Twilight	31.500	38	20Eps Sgr	1.8360	11000.	63	38019	No
20	GOM_TRA_1PNPDE20090608_023343_000000382079_00390_38019_0020.N1	08-JUN-2009 02:33:43	Twilight	38.000	57	34Sig Sgr	2.0660	26000.	76	38019	No
21	GOM_TRA_1PNPDE20090608_024628_000000362079_00390_38019_0021.N1	08-JUN-2009 02:46:28	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	38019	No
22	GOM_TRA_1PNPDE20090608_024909_000000362079_00390_38019_0022.N1	08-JUN-2009 02:49:09	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	38019	No
23	GOM_TRA_1PNPDE20090608_025352_000000302079_00390_38019_0023.N1	08-JUN-2009 02:53:52	Bright	30.000	133	40Zet Her	2.8070	6000.0	60	38019	No
24	GOM_TRA_1PNPDE20090608_030103_000000312079_00390_38019_0024.N1	08-JUN-2009 03:01:03	Bright	31.000	130	23Bet Dra	2.7990	5800.0	62	38019	No
25	GOM_TRA_1PNPDE20090608_031152_000000302079_00390_38019_0025.N1	08-JUN-2009 03:11:52	Twilight	30.000	89	5Alp Cep	2.4510	8000.0	60	38019	No
26	GOM_TRA_1PNPDE20090608_031736_000000262079_00390_38019_0169.N1	08-JUN-2009 03:17:36	Twilight	25.500	74	11Bet Cas	2.2680	6600.0	51	38019	No
27	GOM_TRA_1PNPDE20090608_032549_000000242079_00390_38019_0170.N1	08-JUN-2009 03:25:49	Twilight	24.000	53	43Bet And	2.0480	3300.0	48	38019	No
28	GOM_TRA_1PNPDE20090608_032844_000000302079_00390_38019_0171.N1	08-JUN-2009 03:28:44	Straylight	30.000	58	21Alp And	2.0730	11000.	60	38019	No
29	GOM_TRA_1PNPDE20090608_033419_000000332079_00390_38019_0172.N1	08-JUN-2009 03:34:19	Dark	33.000	140	88Gam Peg	2.8340	26000.	66	38019	No
30	GOM_TRA_1PNPDE20090608_035320_000000432079_00391_38020_0173.N1	08-JUN-2009 03:53:20	Dark	42.500	18	24Alp PsA	1.1660	9700.0	85	38020	No
31	GOM_TRA_1PNPDE20090608_035750_000000342079_00391_38020_0174.N1	08-JUN-2009 03:57:50	Dark	34.000	31	Alp Gru	1.7340	15200.	68	38020	No
32	GOM_TRA_1PNPDE20090608_041221_000000322079_00391_38020_0175.N1	08-JUN-2009 04:12:21	Twilight	31.500	38	20Eps Sgr	1.8360	11000.	63	38020	No
33	GOM_TRA_1PNPDE20090608_041420_000000382079_00391_38020_0176.N1	08-JUN-2009 04:14:20	Twilight	38.000	57	34Sig Sgr	2.0660	26000.	76	38020	No
34	GOM_TRA_1PNPDE20090608_042704_000000362079_00391_38020_0177.N1	08-JUN-2009 04:27:04	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	38020	No
35	GOM_TRA_1PNPDE20090608_042944_000000362079_00391_38020_0178.N1	08-JUN-2009 04:29:44	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	38020	No
36	GOM_TRA_1PNPDE20090608_043428_000000302079_00391_38020_0179.N1	08-JUN-2009 04:34:28	Bright	30.000	133	40Zet Her	2.8070	6000.0	60	38020	No
37	GOM_TRA_1PNPDE20090608_044139_000000312079_00391_38020_0180.N1	08-JUN-2009 04:41:39	Bright	30.500	130	23Bet Dra	2.7990	5800.0	61	38020	No
38	GOM_TRA_1PNPDE20090608_045227_000000312079_00391_38020_0181.N1	08-JUN-2009 04:52:27	Twilight	30.500	89	5Alp Cep	2.4510	8000.0	61	38020	No
39	GOM_TRA_1PNPDE20090608_045812_000000252079_00391_38020_0451.N1	08-JUN-2009 04:58:12	Twilight	25.000	74	11Bet Cas	2.2680	6600.0	50	38020	No
40	GOM_TRA_1PNPDE20090608_050625_000000242079_00391_38020_0452.N1	08-JUN-2009 05:06:25	Twilight	24.000	53	43Bet And	2.0480	3300.0	48	38020	No
41	GOM_TRA_1PNPDE20090608_050920_000000302079_00391_38020_0453.N1	08-JUN-2009 05:09:20	Straylight	30.000	58	21Alp And	2.0730	11000.	60	38020	No
42	GOM_TRA_1PNPDE20090608_051456_000000332079_00391_38020_0454.N1	08-JUN-2009 05:14:56	Dark	33.000	140	88Gam Peg	2.8340	26000.	66	38020	No
43	GOM_TRA_1PNPDE20090608_053357_000000422079_00392_38021_0455.N1	08-JUN-2009 05:33:57	Dark	42.000	18	24Alp PsA	1.1660	9700.0	84	38021	No
44	GOM_TRA_1PNPDE20090608_053827_000000342079_00392_38021_0456.N1	08-JUN-2009 05:38:27	Dark	34.000	31	Alp Gru	1.7340	15200.	68	38021	No
45	GOM_TRA_1PNPDE20090608_055257_000000322079_00392_38021_0457.N1	08-JUN-2009 05:52:57	Twilight	31.500	38	20Eps Sgr	1.8360	11000.	63	38021	No
46	GOM_TRA_1PNPDE20090608_055456_000000382079_00392_38021_0458.N1	08-JUN-2009 05:54:56	Twilight	38.000	57	34Sig Sgr	2.0660	26000.	76	38021	No
47	GOM_TRA_1PNPDE20090608_060740_000000362079_00392_38021_0459.N1	08-JUN-2009 06:07:40	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	38021	No
48	GOM_TRA_1PNPDE20090608_061020_000000362079_00392_38021_0460.N1	08-JUN-2009 06:10:20	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	38021	No
49	GOM_TRA_1PNPDE20090608_061504_000000302079_00392_38021_0461.N1	08-JUN-2009 06:15:04	Bright	29.500	133	40Zet Her	2.8070	6000.0	59	38021	No
50	GOM_TRA_1PNPDE20090608_062214_000000312079_00392_38021_0462.N1	08-JUN-2009 06:22:14	Bright	30.500	130	23Bet Dra	2.7990	5800.0	61	38021	No

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



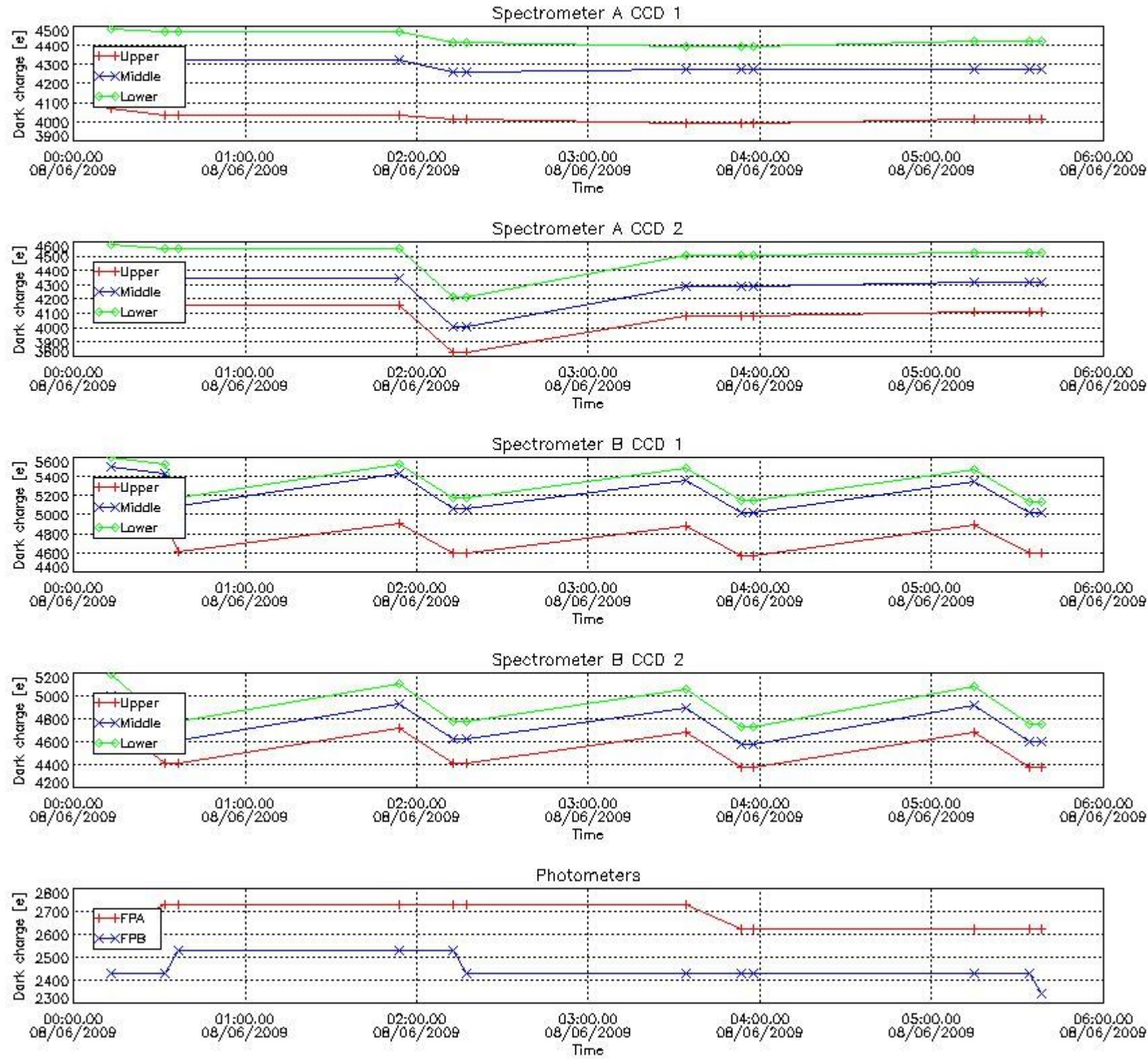
4. Overview of dark signal processing per product

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



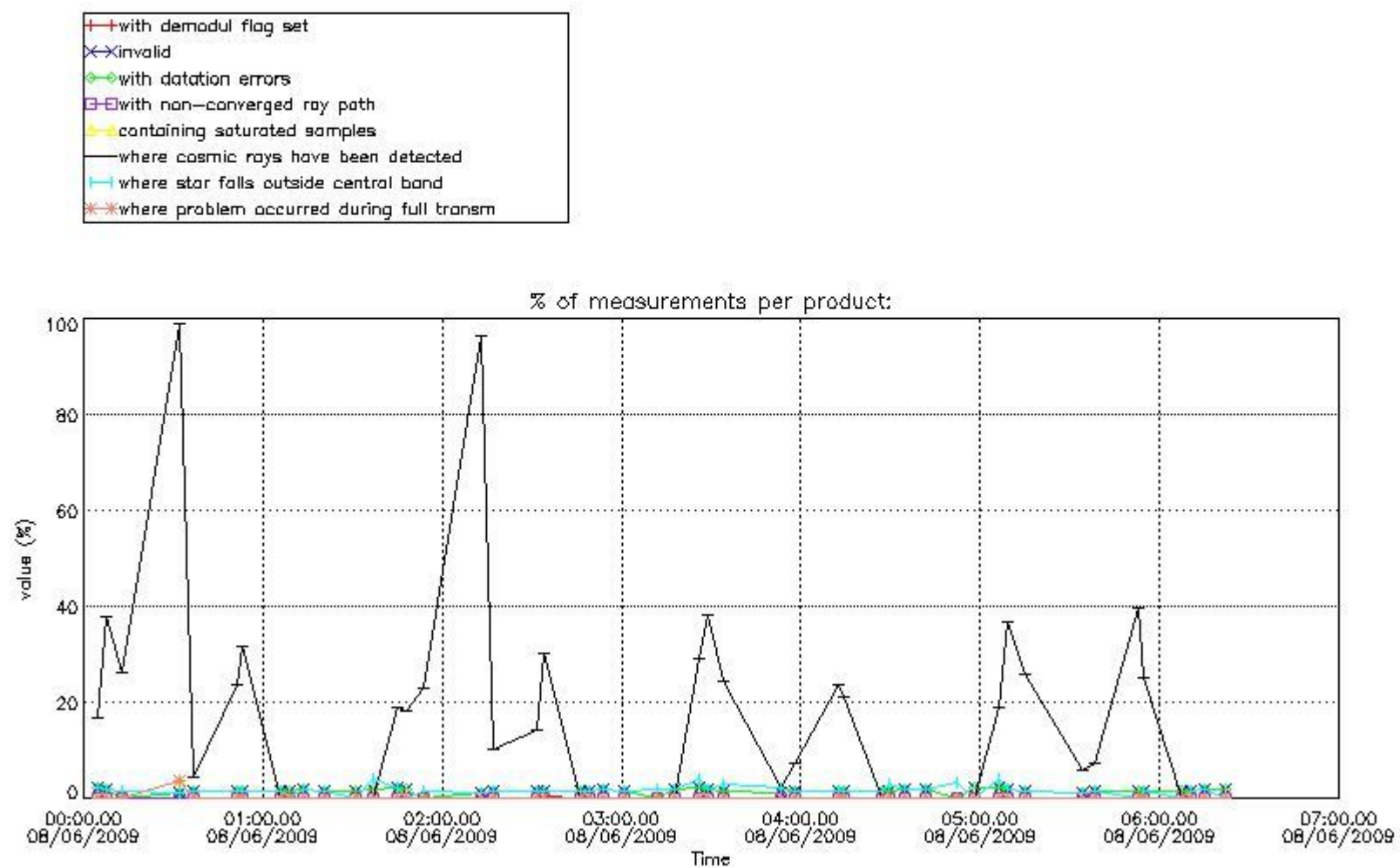
5. Demodulation flag and quality information monitoring

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.

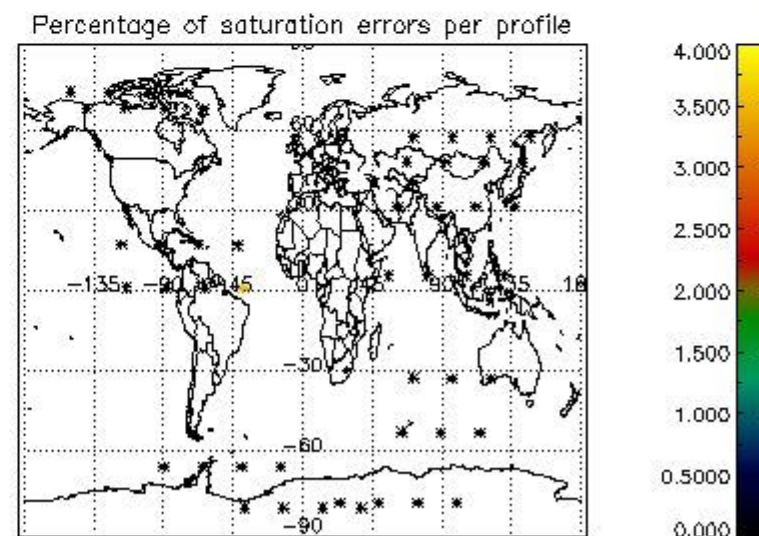
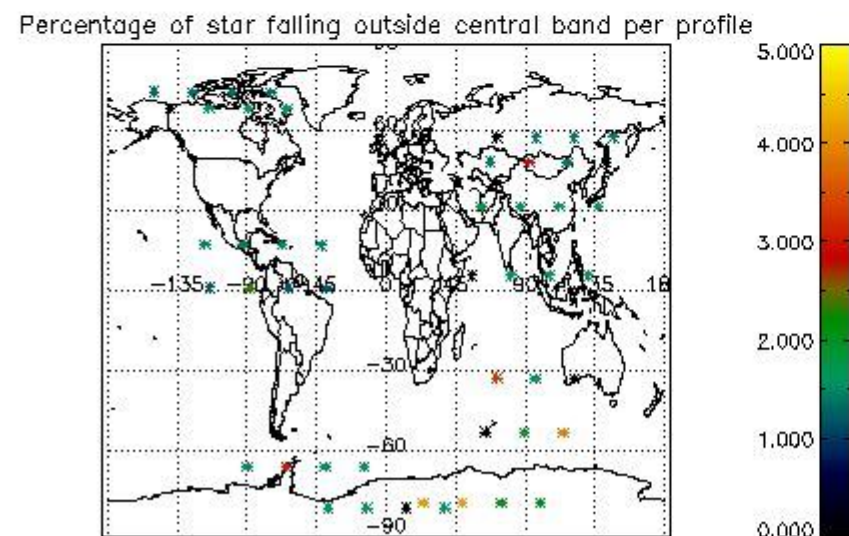
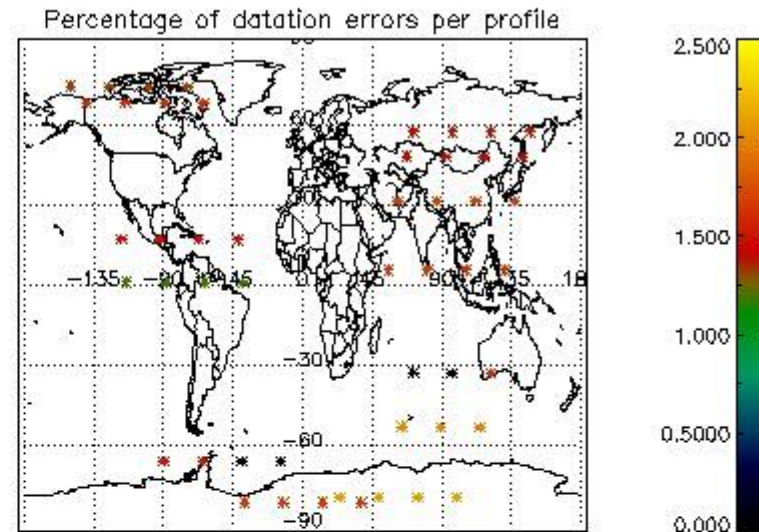
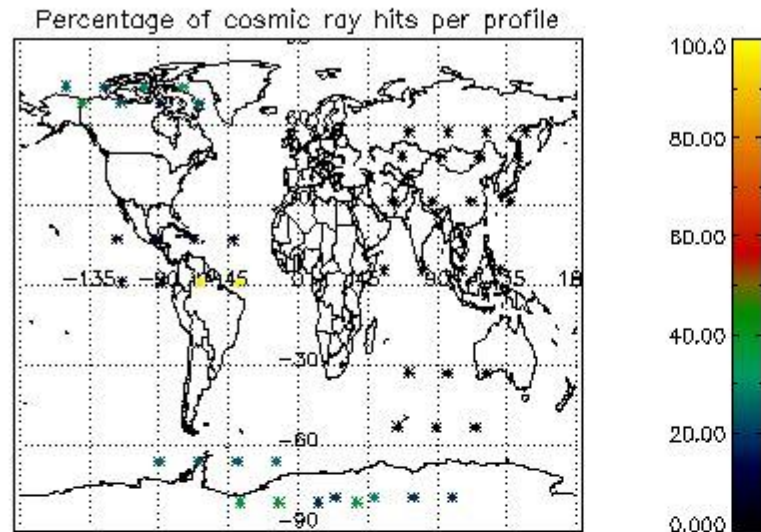
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	34.0000 %
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)



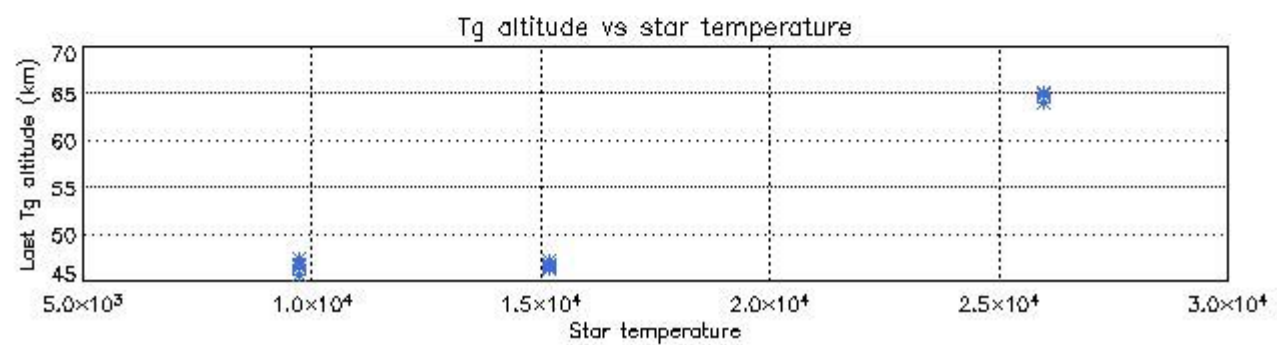
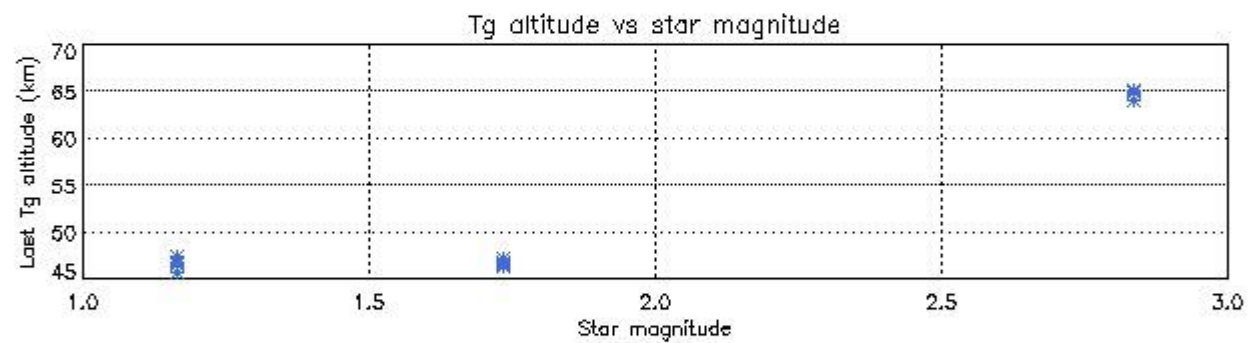
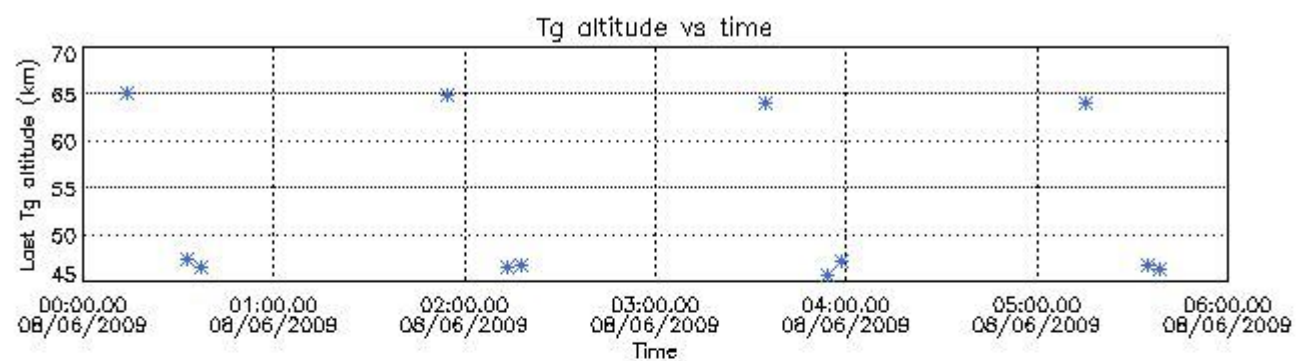
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	52.593	48.538	NaN
St. deviation:	8.8443	0.98433	NaN
Maximum:	65.096	50.035	NaN
Minimum:	45.708	46.665	NaN
Number of data:	12.000	16.000	NaN

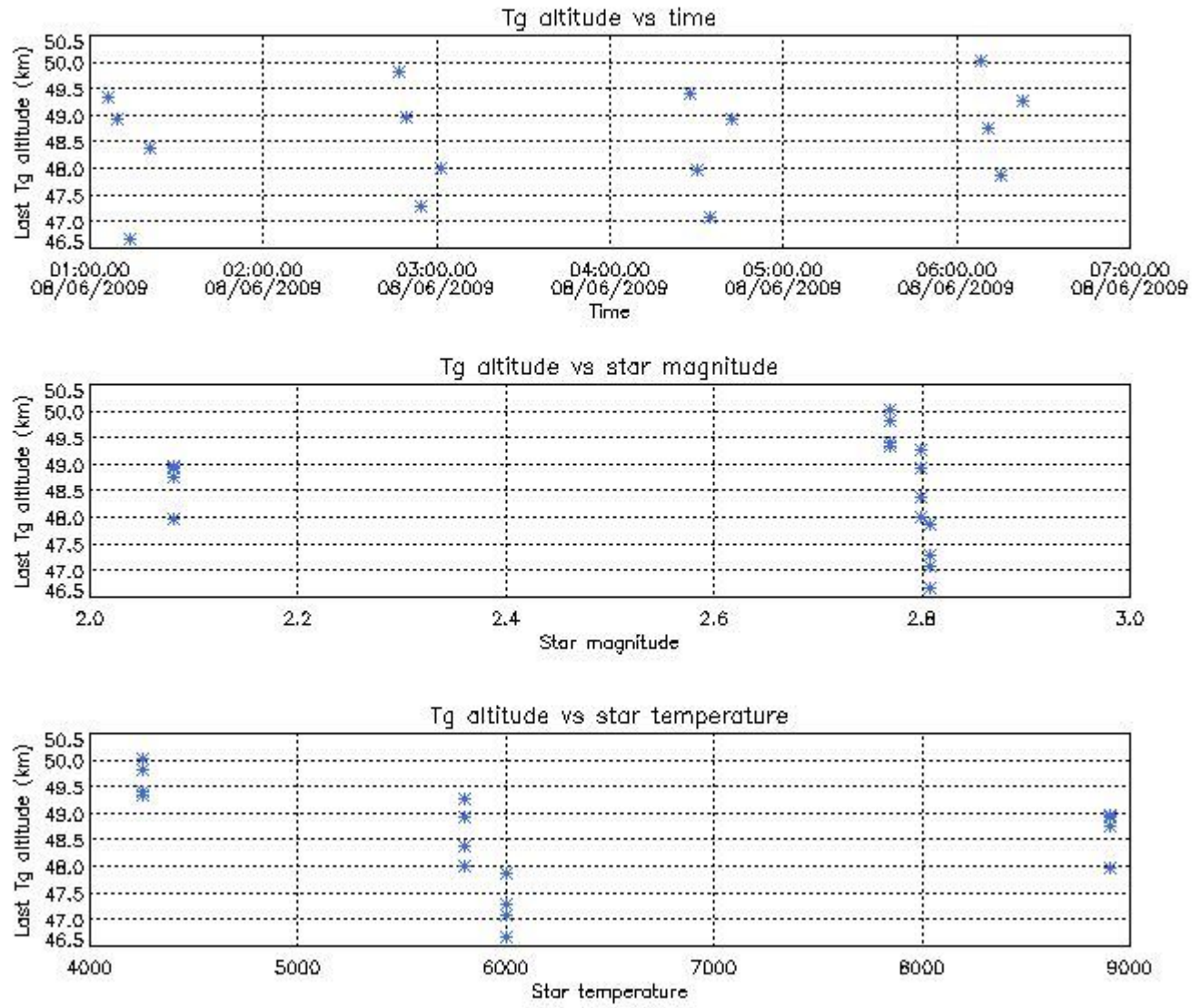
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

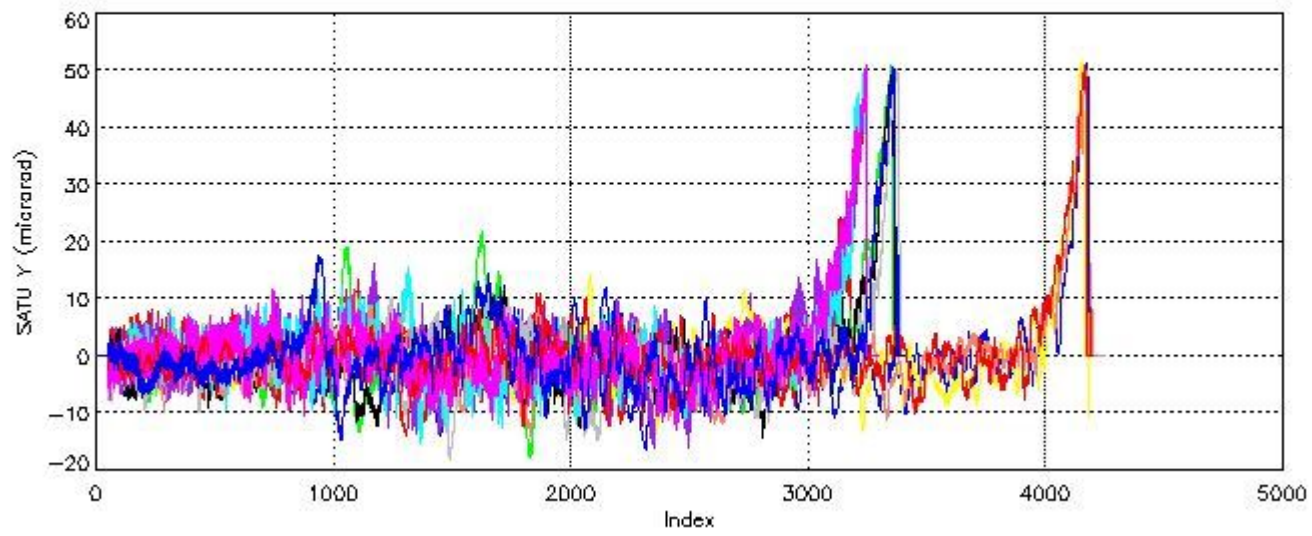
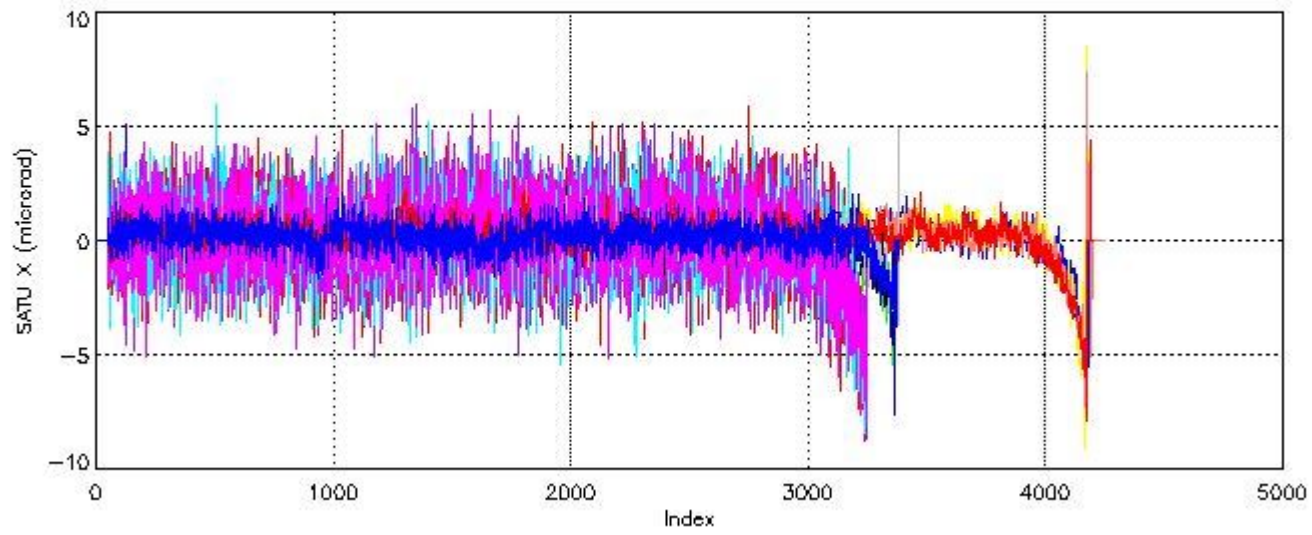


7. Star Acquisition and Tracking Unit (SATU)

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:	0.27403	-0.39483	0.35902	-0.86635
St. deviation:	0.83152	3.5093	0.82577	2.9407
Maximum:	6.0000	19.100	4.2000	11.100
Minimum:	-5.1000	-14.700	-3.5000	-12.000

Number of data:	15300.	15300.	17150.	17150.
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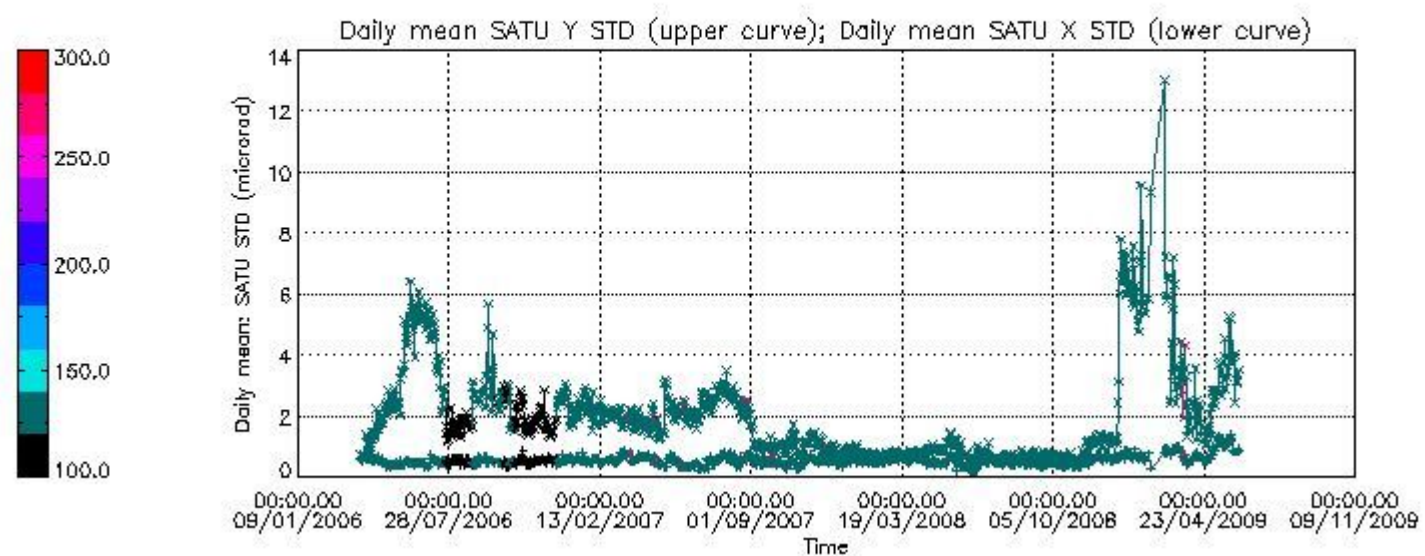
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

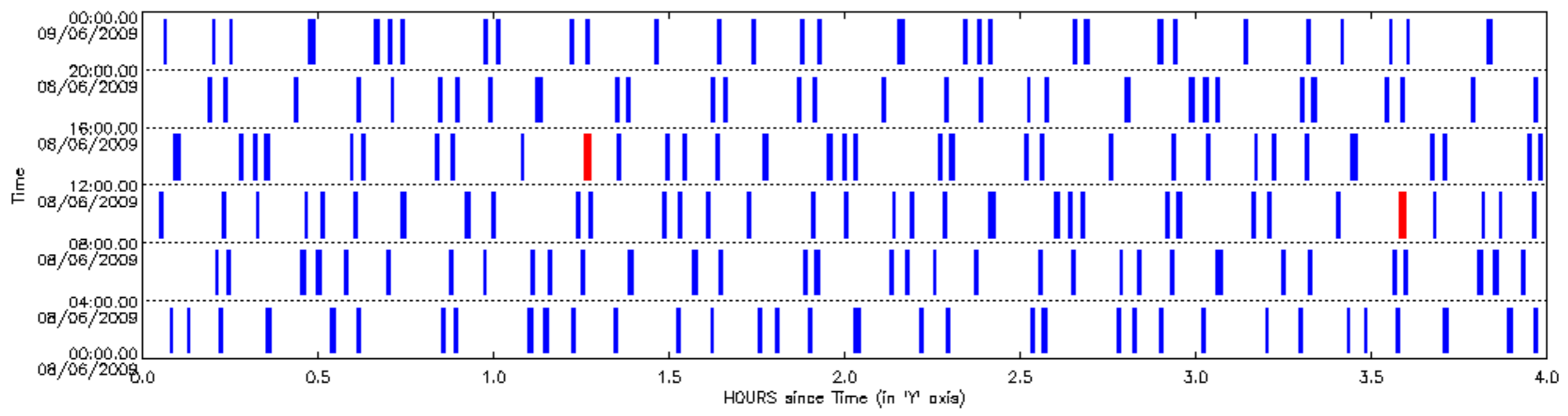
Lower curve: STD of SATU X axis

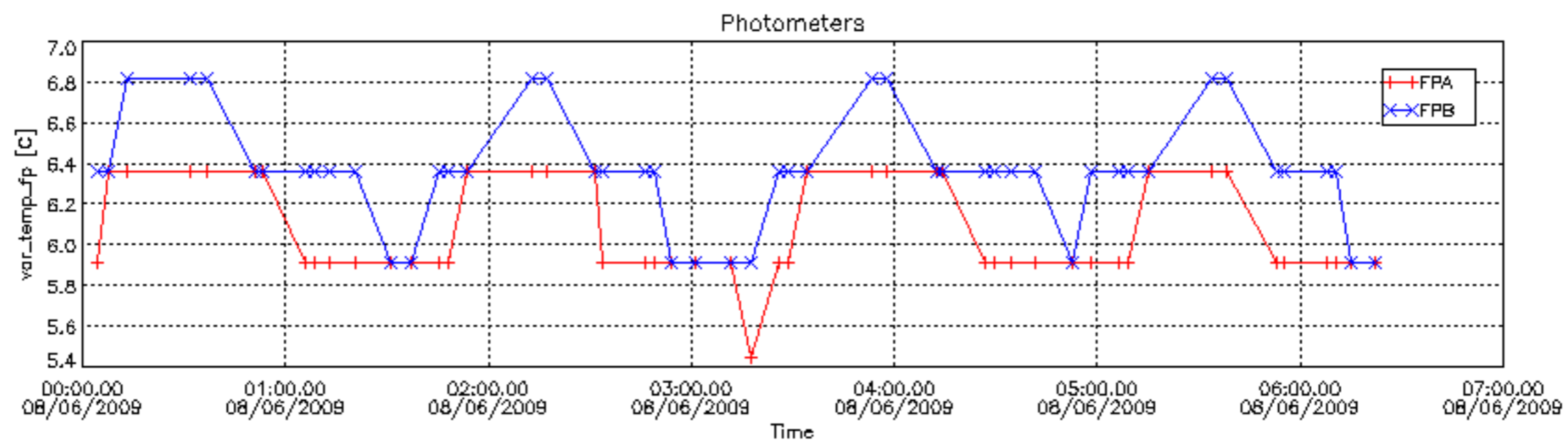
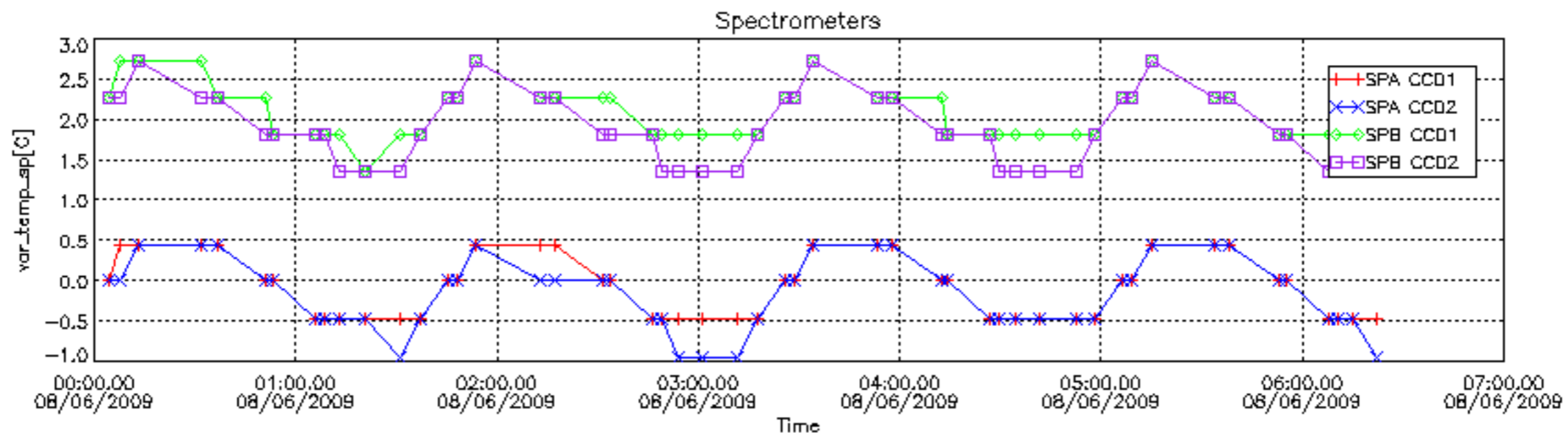


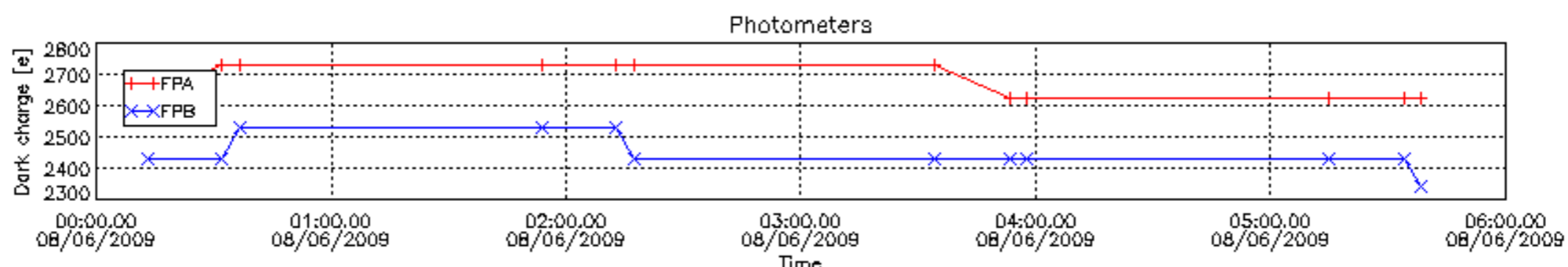
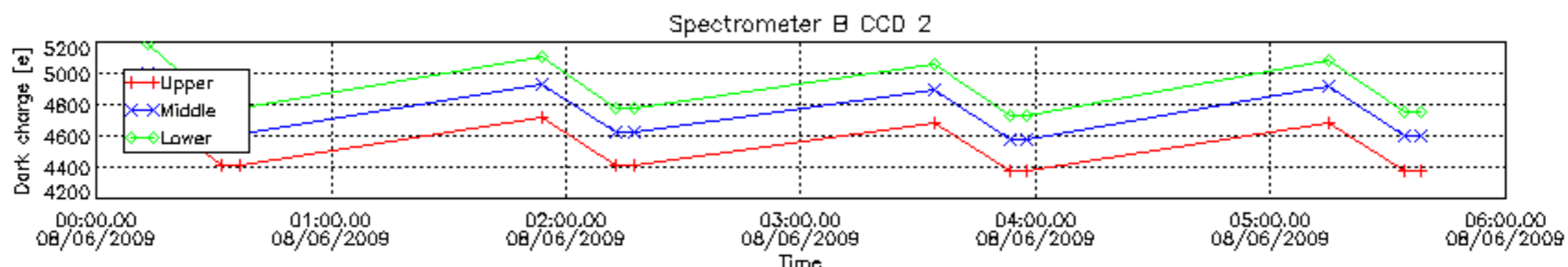
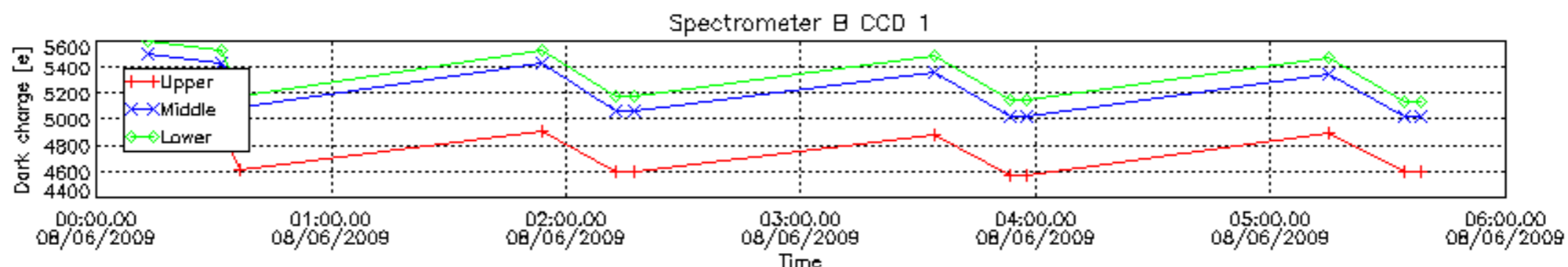
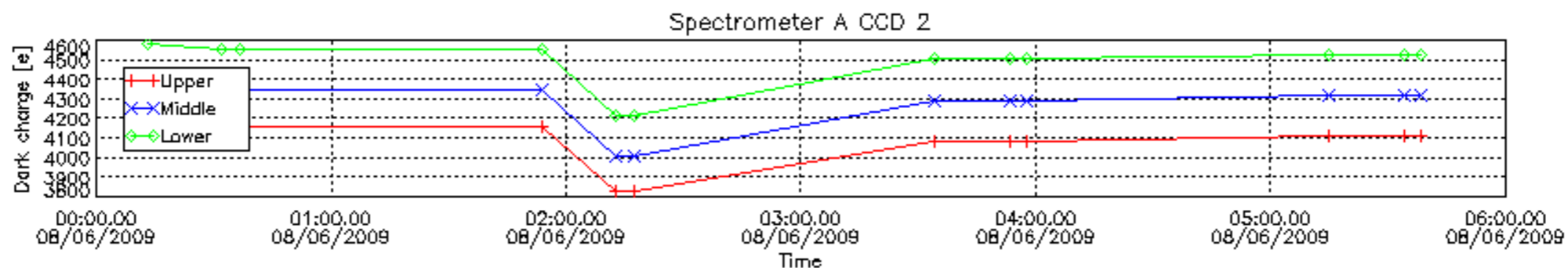
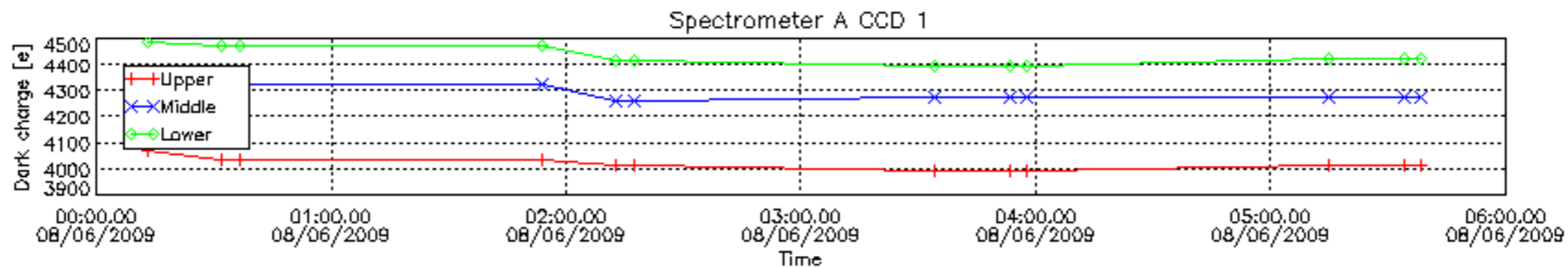
8. Auxiliary Data Files used for the production reported in section 2.4

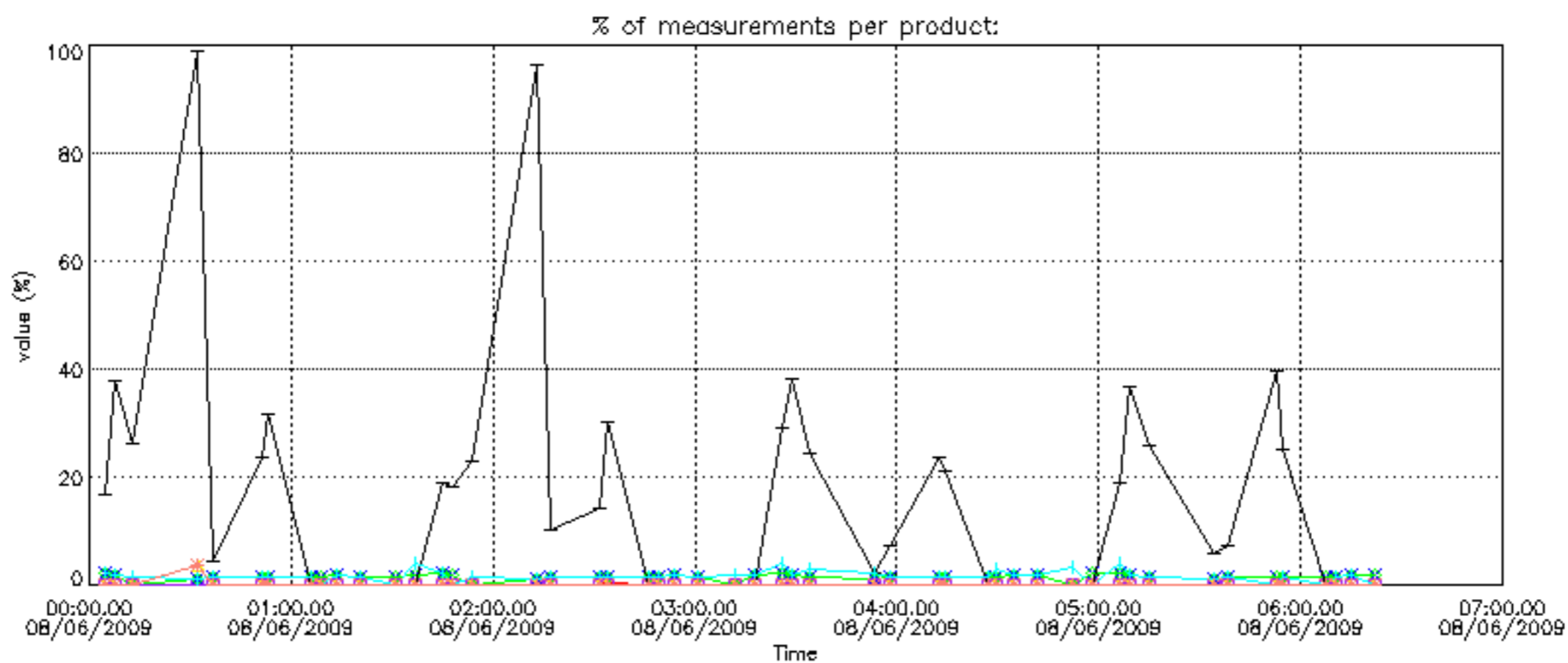
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	08-JUN-2009 00:04:37
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090608_084241_20090606_000000_20100101_000000	1	08-JUN-2009 00:04:37
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090526_074004_20090517_000000_20100101_000000	26	08-JUN-2009 03:17:36
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	08-JUN-2009 00:04:37
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-JUN-2009 00:04:37
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	08-JUN-2009 00:04:37
ECMWF_FILE	AUX_ECF_AXNECM20090608_100114_20090607_210000_20090608_090000	1	08-JUN-2009 00:04:37
ECMWF_FILE	AUX_ECF_AXNECM20090607_184114_20090608_030000_20090608_150000	26	08-JUN-2009 03:17:36
OPTIONAL_ECMWF_FILE	MISSING	1	08-JUN-2009 00:04:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090607_205152_000060572079_00386_38015_8106.N1	1	08-JUN-2009 00:04:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090607_223808_000057382079_00387_38016_8107.N1	4	08-JUN-2009 00:32:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090608_001905_000054192079_00388_38017_8108.N1	17	08-JUN-2009 02:12:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090608_015443_000044632079_00389_38018_8109.N1	26	08-JUN-2009 03:17:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090608_031425_000054192079_00390_38019_8110.N1	39	08-JUN-2009 04:58:12

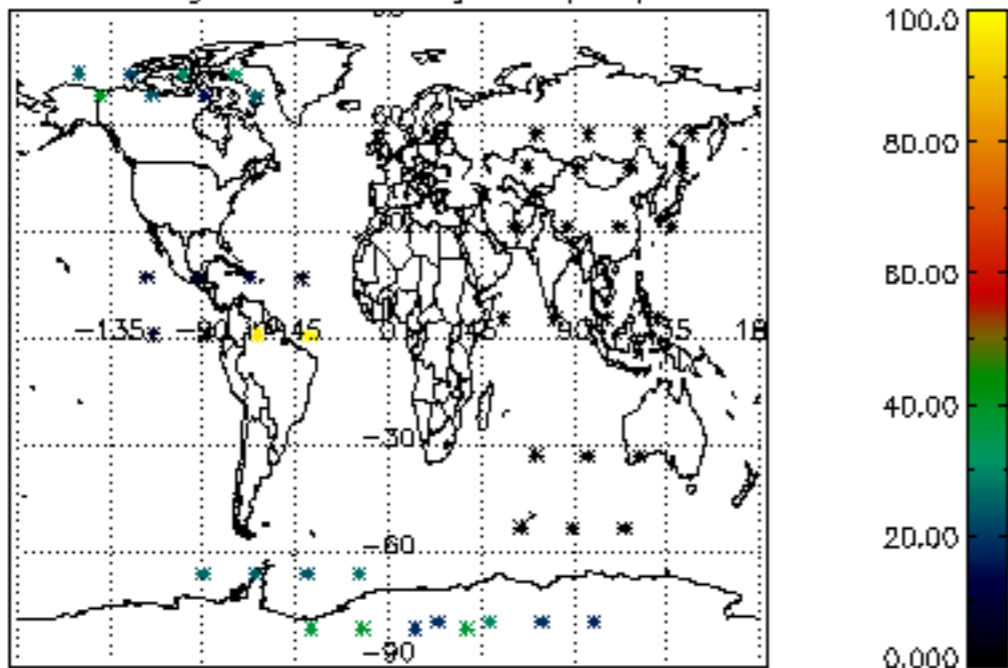




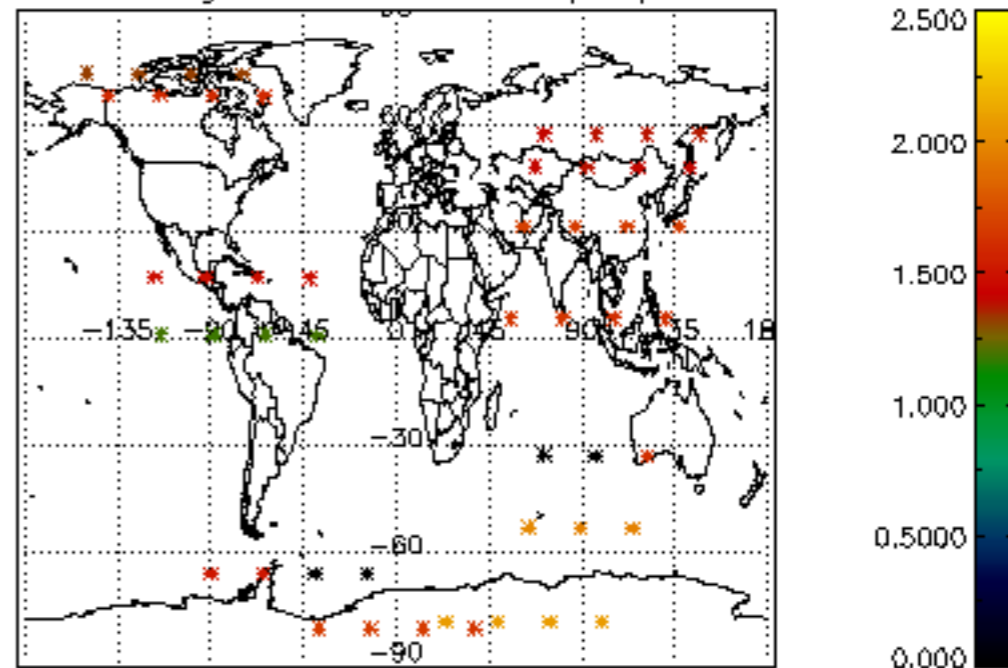




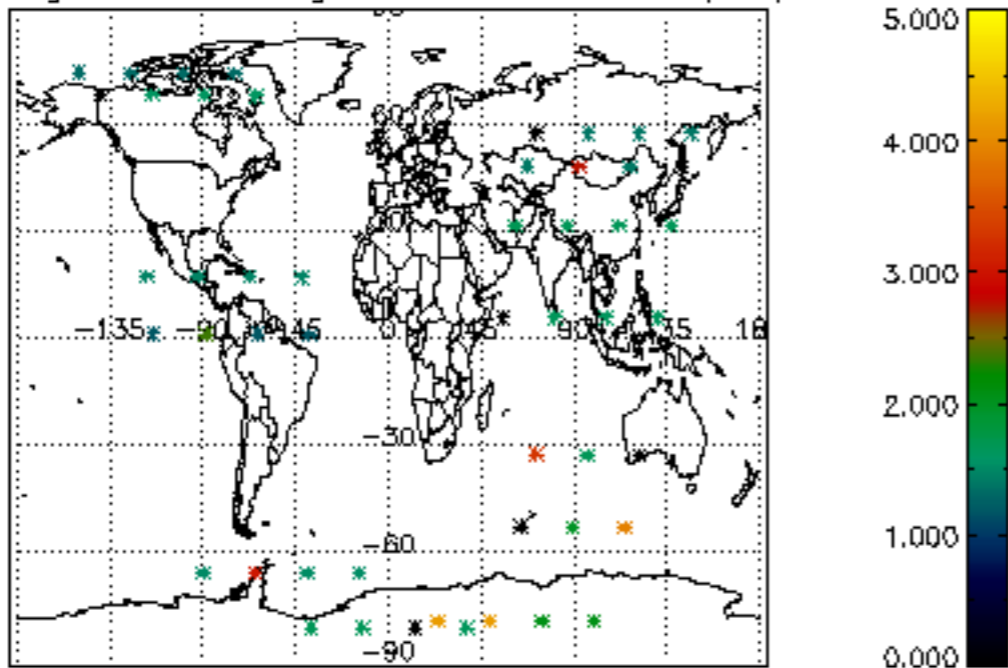
Percentage of cosmic ray hits per profile



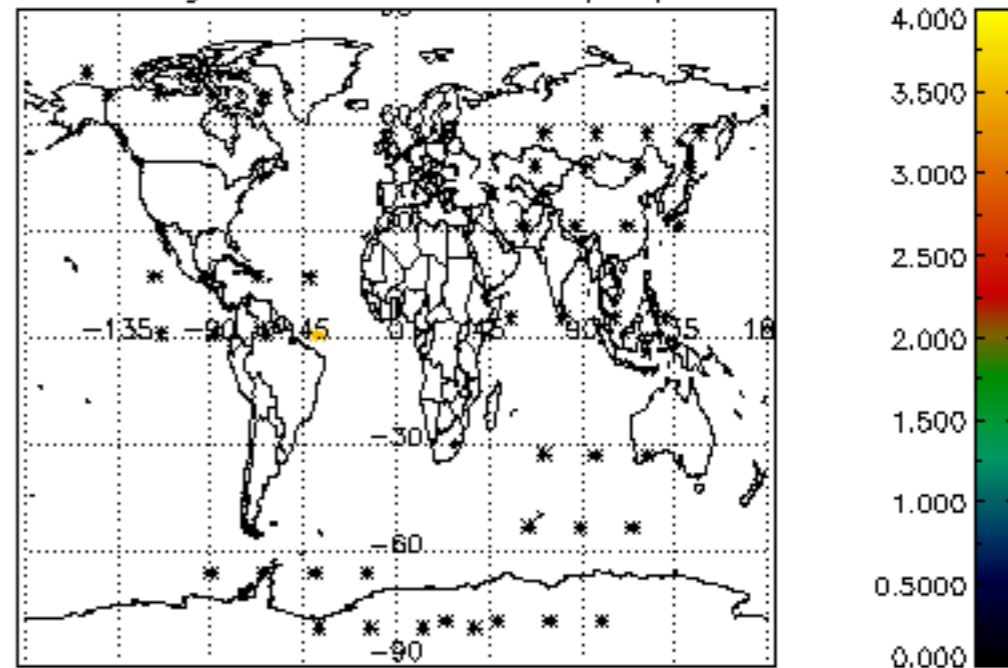
Percentage of datation errors per profile



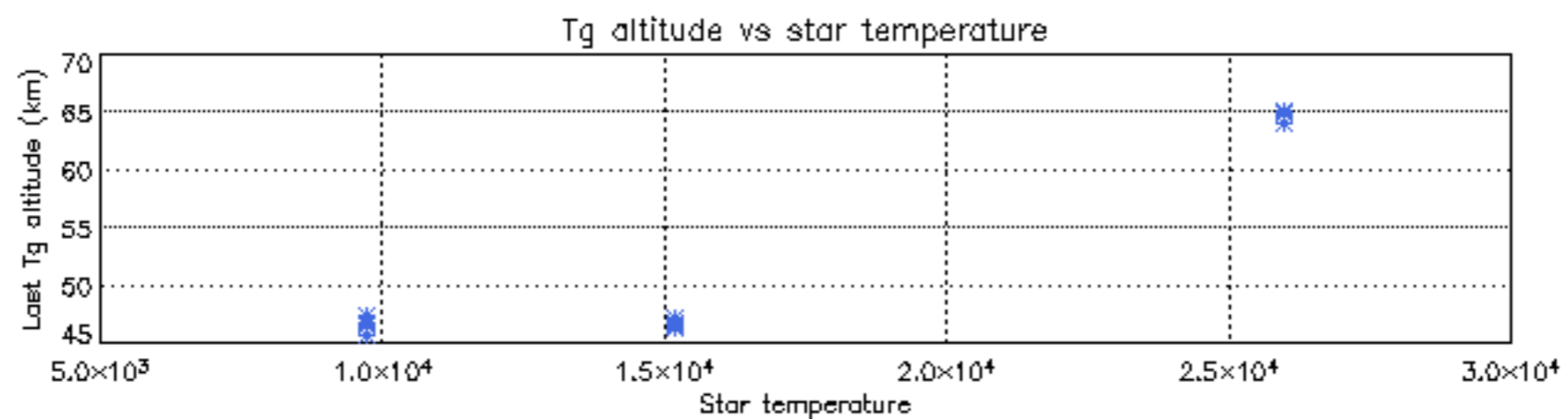
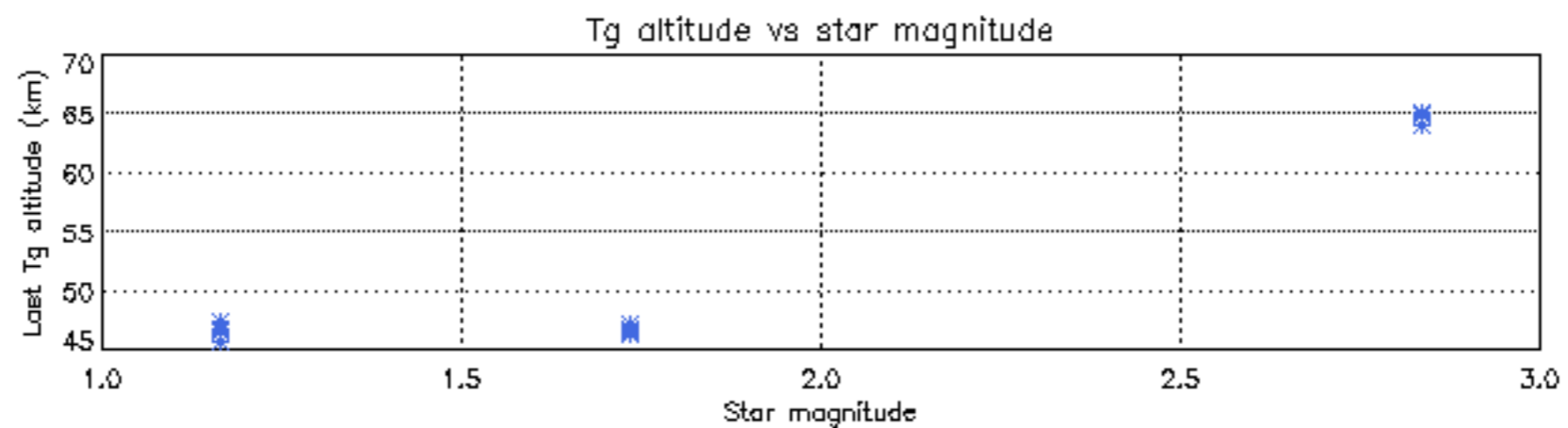
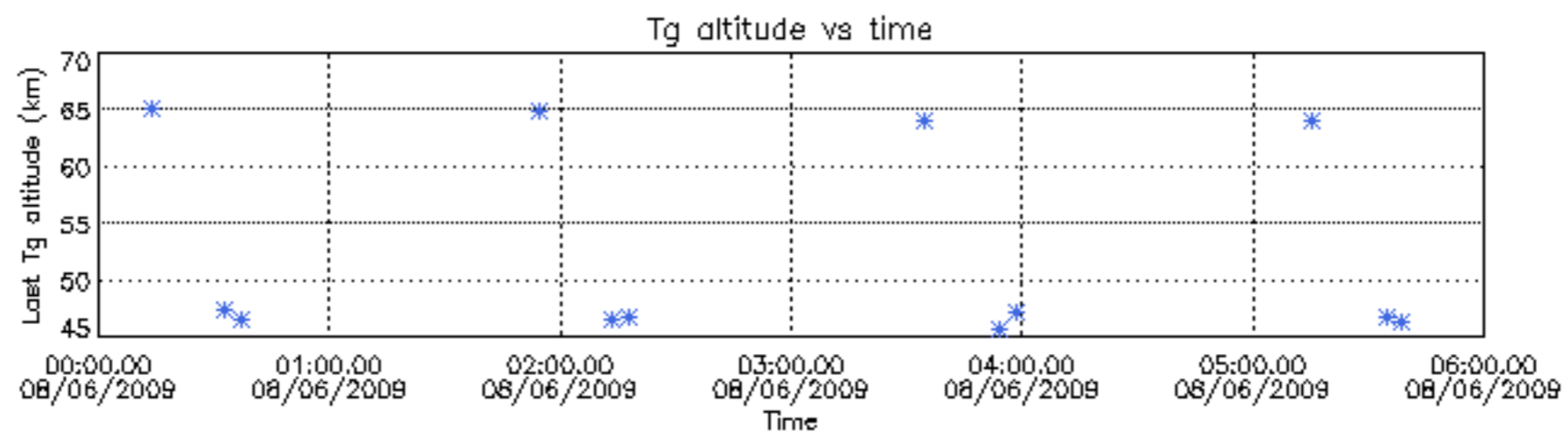
Percentage of star falling outside central band per profile



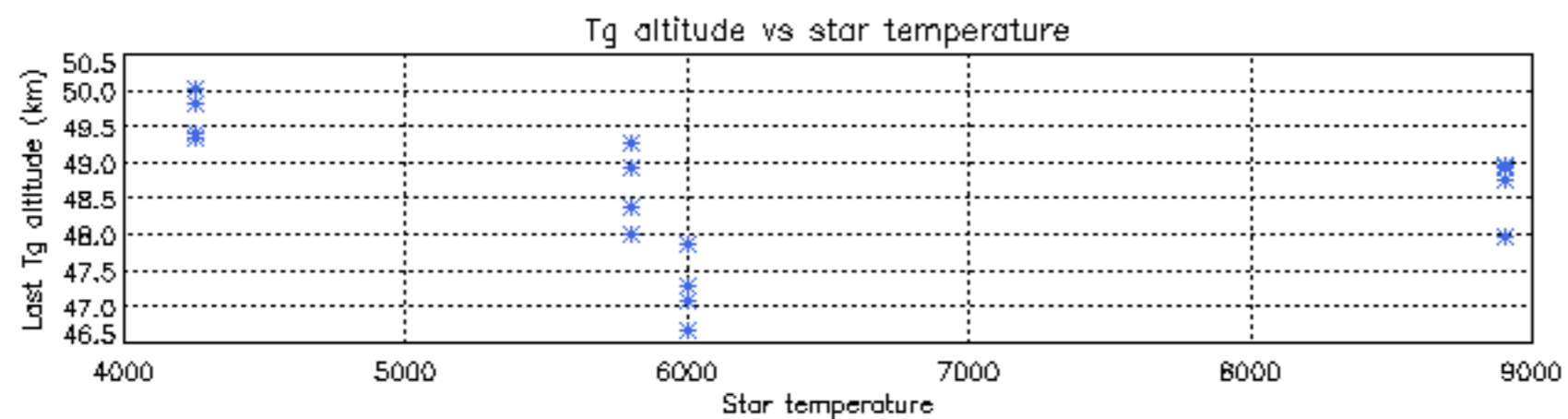
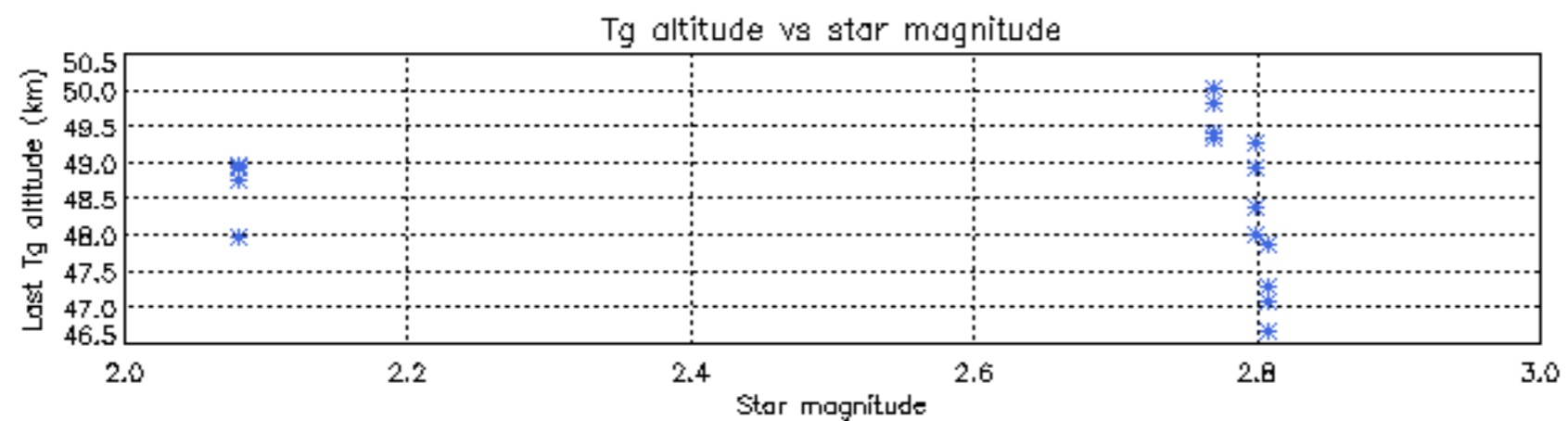
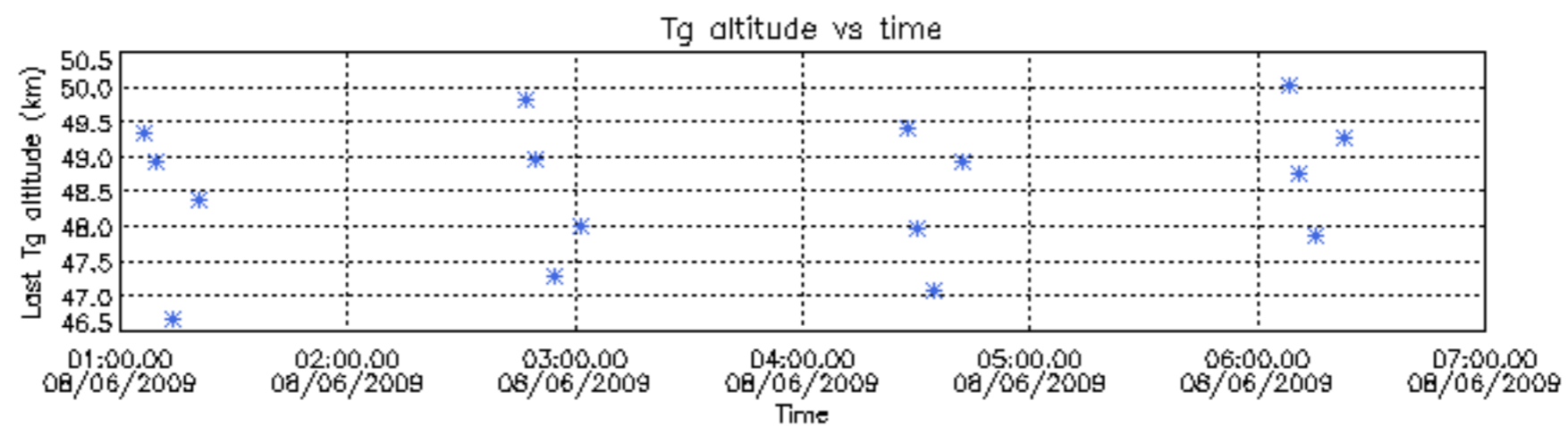
Percentage of saturation errors per profile

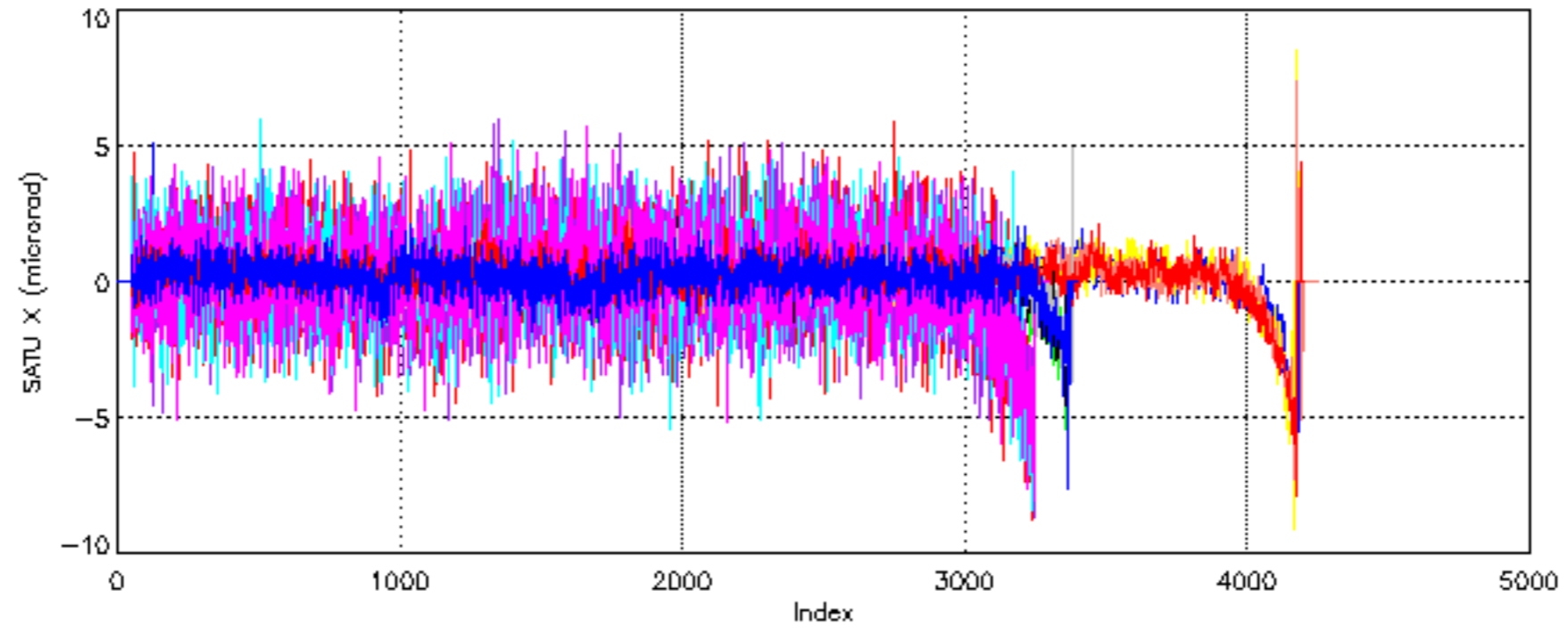


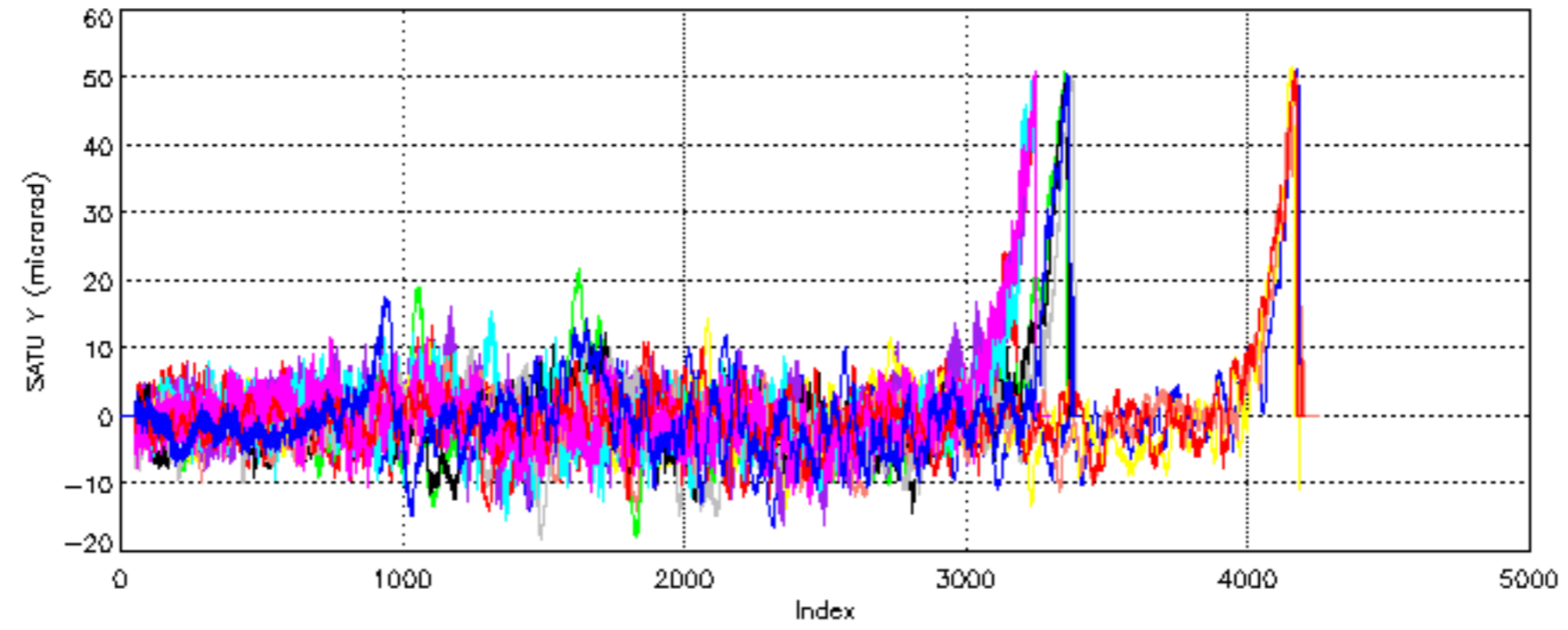
Tangent altitude at which the star is lost

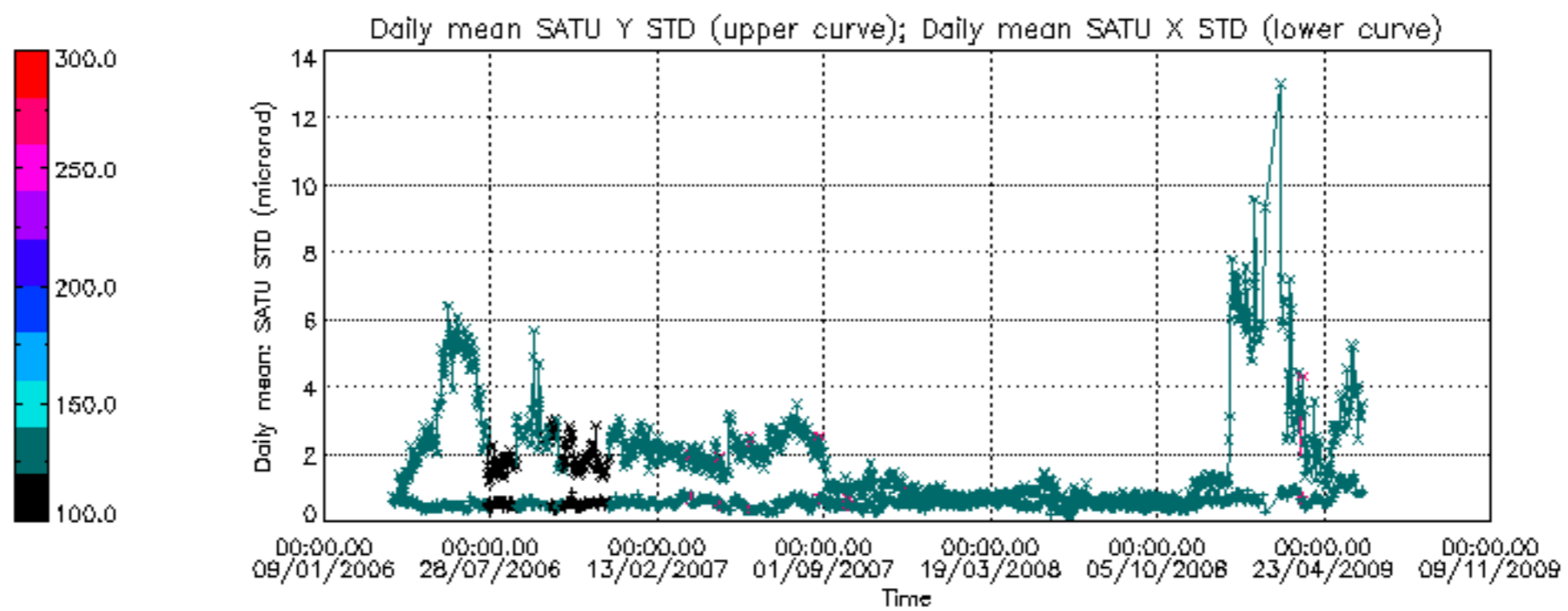


Tangent altitude at which the star is lost










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3; 1592.2; 01-JUN-2009 19:45:04; Bright; 31.5; 86; 35Eta Oph ; 2.43; 10200;occ; 63; 0;37929
4; 2318.4; 01-JUN-2009 19:57:10; Bright; 31.5; 127; 27Bet Her ; 2.78; 4700;occ; 63; 0;37929
5; 2522.8; 01-JUN-2009 20:00:35; Bright; 32.5; 133; 40Zet Her ; 2.81; 6000;occ; 65; 0;37929
6; 2969.6; 01-JUN-2009 20:08:01; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;37929
7; 3621.8; 01-JUN-2009 20:18:54; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37929
8; 3931.2; 01-JUN-2009 20:24:03; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37929
9; 4558.5; 01-JUN-2009 20:34:30; Dark ; 28.0; 58; 21Alp And ; 2.07; 11000;occ; 56; 0;37929
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 4; 2973.9; 01-JUN-2009 08:23:54; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;37922
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 5; 2523.4; 01-JUN-2009 18:19:59; Bright; 32.5; 133; 40Zet Her ; 2.81; 6000;occ; 65; 0;37928

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 9; 2493.1; 06-JUN-2009 22:23:48; Bright; 29.5; 133; 40Zet Her ; 2.81; 6000;occ; 59; 0;38002
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6; 318.6; 10-JUN-2009 07:56:54; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38051
7; 1173.7; 10-JUN-2009 08:11:09; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38051
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3; 2901.7; 10-JUN-2009 08:39:57; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38051
4; 3544.6; 10-JUN-2009 08:50:40; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38051
5; 3902.5; 10-JUN-2009 08:56:38; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38051
6; 4405.8; 10-JUN-2009 09:05:01; Dark ; 24.0; 53; 43Bet And ; 2.05; 3300;occ; 48; 0;38051
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8; 5489.6; 10-JUN-2009 09:23:05; Dark ; 30.5; 52; 16Bet Cet ; 2.04; 4500;occ; 61; 0;38051
9; 6234.5; 10-JUN-2009 09:35:30; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38051
10; 6355.2; 10-JUN-2009 09:37:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38051
11; 7209.7; 10-JUN-2009 09:51:45; Dark ; 31.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 62; 0;38051
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3; 2901.3; 10-JUN-2009 10:20:33; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38052
4; 3544.4; 10-JUN-2009 10:31:16; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38052
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6; 4405.6; 10-JUN-2009 10:45:37; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38052
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8; 5490.3; 10-JUN-2009 11:03:42; Dark ; 30.5; 52; 16Bet Cet ; 2.04; 4500;occ; 61; 0;38052
9; 6104.0; 10-JUN-2009 11:13:55; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;38052
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11; 6356.4; 10-JUN-2009 11:18:08; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38052
12; 7209.9; 10-JUN-2009 11:32:21; Dark ; 31.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 62; 0;38052
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4; 3901.5; 10-JUN-2009 12:17:49; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38053
5; 4405.6; 10-JUN-2009 12:26:13; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38053
6; 5378.1; 10-JUN-2009 12:42:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38053
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8; 6105.5; 10-JUN-2009 12:54:33; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;38053
9; 6236.4; 10-JUN-2009 12:56:44; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38053
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11; 7210.7; 10-JUN-2009 13:12:58; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38053
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2; 2186.9; 10-JUN-2009 13:29:50; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;38054
3; 2900.5; 10-JUN-2009 13:41:44; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38054
4; 3901.4; 10-JUN-2009 13:58:25; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38054
5; 4406.0; 10-JUN-2009 14:06:49; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38054
6; 5379.0; 10-JUN-2009 14:23:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38054
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8; 6106.8; 10-JUN-2009 14:35:10; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;38054
9; 6237.5; 10-JUN-2009 14:37:21; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38054
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3; 2900.1; 10-JUN-2009 15:22:19; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38055
4; 3542.3; 10-JUN-2009 15:33:01; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38055
5; 3901.1; 10-JUN-2009 15:39:00; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38055
6; 4406.3; 10-JUN-2009 15:47:25; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38055
7; 5380.0; 10-JUN-2009 16:03:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38055
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4; 2899.7; 10-JUN-2009 17:02:55; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38056
5; 3541.8; 10-JUN-2009 17:13:37; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38056
6; 3900.8; 10-JUN-2009 17:19:36; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38056
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4; 2185.6; 10-JUN-2009 18:31:37; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;38057
5; 2898.9; 10-JUN-2009 18:43:30; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38057
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13; 3899.2; 11-JUN-2009 01:42:34; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38061
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3; 81.7; 11-JUN-2009 02:19:32; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;38062
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5; 208.9; 11-JUN-2009 04:02:15; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38063
6; 330.6; 11-JUN-2009 04:04:17; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38063
7; 421.5; 11-JUN-2009 04:05:48; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38063

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13; 2895.6; 11-JUN-2009 06:27:38; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38064
14; 3536.4; 11-JUN-2009 06:38:19; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38064
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8; 424.1; 11-JUN-2009 07:27:03; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38065
9; 1179.4; 11-JUN-2009 07:39:38; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38065
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3; 2894.9; 11-JUN-2009 09:48:49; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38066
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3; 103.9; 12-JUN-2009 01:48:18; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;38076
4; 221.0; 12-JUN-2009 01:50:15; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38076
5; 342.9; 12-JUN-2009 01:52:17; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38076
6; 438.7; 12-JUN-2009 01:53:52; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38076
7; 1183.8; 12-JUN-2009 02:06:17; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38076
8; 1303.2; 12-JUN-2009 02:08:17; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38076
9; 2022.1; 12-JUN-2009 02:20:16; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38076
10; 2177.5; 12-JUN-2009 02:22:51; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38076

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5; 105.6; 12-JUN-2009 03:28:55; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;38077
6; 222.2; 12-JUN-2009 03:30:52; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38077
7; 344.1; 12-JUN-2009 03:32:54; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38077
8; 440.1; 12-JUN-2009 03:34:30; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38077
9; 1184.6; 12-JUN-2009 03:46:54; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38077
10; 1303.7; 12-JUN-2009 03:48:53; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38077
11; 2021.9; 12-JUN-2009 04:00:51; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38077
12; 2177.4; 12-JUN-2009 04:03:27; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38077
13; 2890.2; 12-JUN-2009 04:15:20; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38077
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5; 107.1; 12-JUN-2009 05:09:33; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;38078
6; 223.1; 12-JUN-2009 05:11:29; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38078
7; 345.1; 12-JUN-2009 05:13:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38078
8; 441.6; 12-JUN-2009 05:15:07; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38078
9; 1185.1; 12-JUN-2009 05:27:31; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38078
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11; 2021.7; 12-JUN-2009 05:41:27; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38078
12; 2176.8; 12-JUN-2009 05:44:02; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38078
13; 2889.6; 12-JUN-2009 05:55:55; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38078
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2; 1307.7; 12-JUN-2009 20:34:57; Dark ; 35.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 71; 0;38087
3; 2018.6; 12-JUN-2009 20:46:48; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38087
4; 2173.2; 12-JUN-2009 20:49:22; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38087
5; 2885.6; 12-JUN-2009 21:01:15; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38087
6; 3521.0; 12-JUN-2009 21:11:50; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38087
7; 3891.8; 12-JUN-2009 21:18:01; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38087
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3; 123.2; 12-JUN-2009 21:55:48; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;38088
4; 233.1; 12-JUN-2009 21:57:38; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38088
5; 355.3; 12-JUN-2009 21:59:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38088
6; 455.5; 12-JUN-2009 22:01:20; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38088
7; 1188.9; 12-JUN-2009 22:13:34; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38088
8; 1308.3; 12-JUN-2009 22:15:33; Dark ; 35.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 71; 0;38088
9; 2018.4; 12-JUN-2009 22:27:23; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38088
10; 2173.0; 12-JUN-2009 22:29:58; Bright; 32.5; 59; 55Alp Oph ; 2.08; 8900;occ; 65; 0;38088
11; 2885.0; 12-JUN-2009 22:41:50; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38088
12; 3520.3; 12-JUN-2009 22:52:25; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38088
13; 3891.5; 12-JUN-2009 22:58:36; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38088
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2; 224.9; 12-JUN-2009 08:32:42; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38080
3; 347.0; 12-JUN-2009 08:34:45; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38080
4; 444.3; 12-JUN-2009 08:36:22; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38080
5; 1185.5; 12-JUN-2009 08:48:43; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38080
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 3; 2888.4; 12-JUN-2009 09:17:06; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38080
 4; 3525.9; 12-JUN-2009 09:27:43; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38080
 5; 3893.9; 12-JUN-2009 09:33:51; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38080
 6; 4408.0; 12-JUN-2009 09:42:25; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38080
 7; 5403.6; 12-JUN-2009 09:59:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38080
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 4; 348.3; 12-JUN-2009 10:15:22; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38081
 5; 445.6; 12-JUN-2009 10:16:59; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38081
 6; 1186.1; 12-JUN-2009 10:29:19; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38081
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 9; 2017.9; 13-JUN-2009 00:07:59; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38089
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13; 3891.1; 13-JUN-2009 00:39:12; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38089
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12; 6482.7; 12-JUN-2009 11:57:36; Dark ; 43.0; 172; Gam Gru ; 3.00; 13100;occ; 86; 0;38081
13; 7222.4; 12-JUN-2009 12:09:56; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38081
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5; 3888.8; 13-JUN-2009 12:23:21; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38096
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3; 2880.9; 13-JUN-2009 15:27:45; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38098
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4; 2880.3; 13-JUN-2009 17:08:20; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38099
5; 3513.0; 13-JUN-2009 17:18:53; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38099
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3; 1366.4; 13-JUN-2009 18:23:42; Bright; 32.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 64; 0;38100
4; 2014.9; 13-JUN-2009 18:34:31; Bright; 32.5; 126; 60Bet Oph ; 2.77; 4250;occ; 65; 0;38100
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5; 252.0; 14-JUN-2009 07:29:55; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38108
6; 374.9; 14-JUN-2009 07:31:58; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38108
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3; 2876.5; 14-JUN-2009 08:13:40; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38108
4; 3507.1; 14-JUN-2009 08:24:11; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38108
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7; 5432.4; 14-JUN-2009 08:56:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38108
8; 5542.2; 14-JUN-2009 08:58:06; Dark ; 32.5; 52; 16Bet Cet ; 2.04; 4500;occ; 65; 0;38108
9; 6289.0; 14-JUN-2009 09:10:32; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38108
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11; 6519.4; 14-JUN-2009 09:14:23; Dark ; 43.0; 172; Gam Gru ; 3.00; 13100;occ; 86; 0;38108
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4; 3506.5; 14-JUN-2009 10:04:46; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38109
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8; 5542.9; 14-JUN-2009 10:38:42; Dark ; 33.0; 52; 16Bet Cet ; 2.04; 4500;occ; 66; 0;38109
9; 6289.9; 14-JUN-2009 10:51:09; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38109
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3; 2875.7; 14-JUN-2009 11:34:51; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38110
4; 3505.8; 14-JUN-2009 11:45:21; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38110
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10; 6414.4; 14-JUN-2009 12:33:50; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38110
11; 6522.7; 14-JUN-2009 12:35:38; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38110
12; 7238.4; 14-JUN-2009 12:47:34; Dark ; 25.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 51; 0;38110
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3; 2011.7; 14-JUN-2009 16:22:15; Bright; 32.0; 126; 60Bet Oph ; 2.77; 4250;occ; 64; 0;38113
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4; 2163.5; 14-JUN-2009 18:05:23; Bright; 32.0; 59; 55Alp Oph ; 2.08; 8900;occ; 64; 0;38114
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 5; 3486.7; 16-JUN-2009 10:41:48; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38138
 6; 3875.2; 16-JUN-2009 10:48:17; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38138
 7; 3958.9; 16-JUN-2009 10:49:40; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38138
 8; 4412.0; 16-JUN-2009 10:57:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38138
 9; 5002.7; 16-JUN-2009 11:07:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38138
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 11; 6318.5; 16-JUN-2009 11:29:00; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38138
 12; 6441.6; 16-JUN-2009 11:31:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38138
 13; 6560.0; 16-JUN-2009 11:33:01; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38138
 14; 7276.0; 16-JUN-2009 11:44:57; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38138
 15; 7363.6; 16-JUN-2009 11:46:25; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38138
 16; 7470.0; 16-JUN-2009 11:48:11; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38138

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 3; 2793.0; 16-JUN-2009 12:10:50; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38139
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 6; 3874.8; 16-JUN-2009 12:28:52; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38139
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 8; 4412.1; 16-JUN-2009 12:37:49; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38139
 9; 5003.2; 16-JUN-2009 12:47:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38139
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 11; 6319.6; 16-JUN-2009 13:09:37; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38139
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 15; 7364.1; 16-JUN-2009 13:27:01; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38139
 16; 7470.4; 16-JUN-2009 13:28:48; Bright; 19.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 39; 0;38139

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 3; 2155.4; 16-JUN-2009 13:40:49; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38140
 4; 2792.1; 16-JUN-2009 13:51:25; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38140
 5; 2892.3; 16-JUN-2009 13:53:05; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38140

6; 3485.6; 16-JUN-2009 14:02:59; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38140
 7; 3874.7; 16-JUN-2009 14:09:28; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38140
 8; 3958.4; 16-JUN-2009 14:10:52; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38140
 9; 4412.1; 16-JUN-2009 14:18:25; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38140
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 11; 5575.1; 16-JUN-2009 14:37:48; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38140
 12; 6320.5; 16-JUN-2009 14:50:14; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38140
 13; 6443.9; 16-JUN-2009 14:52:17; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38140
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 2; 1328.4; 16-JUN-2009 15:07:37; Dark ; 34.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 68; 0;38141
 3; 1435.0; 16-JUN-2009 15:09:24; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38141
 4; 2005.2; 16-JUN-2009 15:18:54; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38141
 5; 2155.0; 16-JUN-2009 15:21:24; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38141
 6; 2791.3; 16-JUN-2009 15:32:00; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38141
 7; 2891.9; 16-JUN-2009 15:33:41; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38141
 8; 3484.9; 16-JUN-2009 15:43:34; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38141
 9; 3874.3; 16-JUN-2009 15:50:03; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38141
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 13; 5576.3; 16-JUN-2009 16:18:25; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38141
 14; 6321.7; 16-JUN-2009 16:30:51; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38141
 15; 6444.9; 16-JUN-2009 16:32:54; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38141
 16; 6564.2; 16-JUN-2009 16:34:53; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;38141

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 3; 1435.1; 16-JUN-2009 16:50:00; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38142
 4; 2004.8; 16-JUN-2009 16:59:30; Bright; 30.5; 126; 60Bet Oph ; 2.77; 4250;occ; 61; 0;38142
 5; 2154.8; 16-JUN-2009 17:02:00; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38142
 6; 2790.2; 16-JUN-2009 17:12:35; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38142
 7; 2891.5; 16-JUN-2009 17:14:17; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38142
 8; 3484.2; 16-JUN-2009 17:24:09; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38142
 9; 3874.0; 16-JUN-2009 17:30:39; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38142
 10; 3958.0; 16-JUN-2009 17:32:03; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38142
 11; 4412.2; 16-JUN-2009 17:39:37; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38142
 12; 5470.4; 16-JUN-2009 17:57:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38142
 13; 5577.4; 16-JUN-2009 17:59:02; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38142
 14; 6322.7; 16-JUN-2009 18:11:28; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38142
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 16; 6565.6; 16-JUN-2009 18:15:31; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38142

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 3; 1435.4; 16-JUN-2009 18:30:36; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38143
 4; 2004.6; 16-JUN-2009 18:40:06; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38143
 5; 2154.7; 16-JUN-2009 18:42:36; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38143
 6; 2789.4; 16-JUN-2009 18:53:10; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38143
 7; 2890.9; 16-JUN-2009 18:54:52; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38143
 8; 3483.5; 16-JUN-2009 19:04:45; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38143
 9; 3873.6; 16-JUN-2009 19:11:15; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38143
 10; 3957.9; 16-JUN-2009 19:12:39; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38143
 11; 4412.3; 16-JUN-2009 19:20:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38143
 12; 5471.5; 16-JUN-2009 19:37:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38143
 13; 5578.4; 16-JUN-2009 19:39:39; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;38143
 14; 6323.4; 16-JUN-2009 19:52:04; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38143
 15; 6446.7; 16-JUN-2009 19:54:08; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38143
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 3; 290.3; 17-JUN-2009 00:53:55; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38147
 4; 413.6; 17-JUN-2009 00:55:58; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38147
 5; 534.5; 17-JUN-2009 00:57:59; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38147
 6; 1243.9; 17-JUN-2009 01:09:49; Dark ; 32.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 65; 0;38147


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9; 2003.4; 17-JUN-2009 01:22:28; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38147
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11; 2785.7; 17-JUN-2009 01:35:30; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38147
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3; 291.3; 17-JUN-2009 02:34:32; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38148
4; 414.4; 17-JUN-2009 02:36:35; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38148
5; 535.8; 17-JUN-2009 02:38:36; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38148
6; 1244.2; 17-JUN-2009 02:50:25; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38148
7; 1330.9; 17-JUN-2009 02:51:51; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38148
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9; 2003.4; 17-JUN-2009 03:03:04; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38148
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11; 2784.9; 17-JUN-2009 03:16:05; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38148
12; 2888.4; 17-JUN-2009 03:17:49; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38148
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3; -1623.5; 17-JUN-2009 03:43:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38148
4; -1348.5; 17-JUN-2009 03:47:48; Dark ; 23.5; 105; 6Bet Ari ; 2.64; 8900;occ; 47; 0;38148
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7; 292.2; 17-JUN-2009 04:15:09; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38149
8; 415.4; 17-JUN-2009 04:17:12; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38149
9; 537.2; 17-JUN-2009 04:19:14; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38149
10; 1244.8; 17-JUN-2009 04:31:01; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38149
11; 1331.4; 17-JUN-2009 04:32:28; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38149
12; 1436.9; 17-JUN-2009 04:34:13; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38149
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16; 2888.0; 17-JUN-2009 04:58:24; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38149
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7; 293.1; 17-JUN-2009 05:55:46; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38150
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9; 538.4; 17-JUN-2009 05:59:51; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38150
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11; 1331.8; 17-JUN-2009 06:13:04; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38150
12; 1437.6; 17-JUN-2009 06:14:50; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38150
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14; 2152.3; 17-JUN-2009 06:26:45; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38150
15; 2783.2; 17-JUN-2009 06:37:16; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38150
16; 2887.4; 17-JUN-2009 06:39:00; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38150
17; 3478.8; 17-JUN-2009 06:48:51; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38150
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2; 1334.6; 17-JUN-2009 21:18:31; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38159
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5; 2150.0; 17-JUN-2009 21:32:06; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38159
6; 2775.4; 17-JUN-2009 21:42:31; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;38159
7; 2883.0; 17-JUN-2009 21:44:19; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38159

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9; 3867.8; 17-JUN-2009 22:00:44; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38159
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11; 4413.1; 17-JUN-2009 22:09:49; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38159
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3; 303.1; 17-JUN-2009 22:41:55; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38160
4; 426.4; 17-JUN-2009 22:43:58; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38160
5; 551.8; 17-JUN-2009 22:46:04; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38160
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7; 1335.0; 17-JUN-2009 22:59:07; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38160
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10; 2149.7; 17-JUN-2009 23:12:41; Bright; 30.0; 59; 55Alp Oph ; 2.08; 8900;occ; 60; 0;38160
11; 2774.5; 17-JUN-2009 23:23:06; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;38160
12; 2882.6; 17-JUN-2009 23:24:54; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38160
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14; 3867.4; 17-JUN-2009 23:41:19; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38160
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8; 417.8; 17-JUN-2009 07:38:26; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38151
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5; 3478.0; 17-JUN-2009 08:29:27; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38151
6; 3870.7; 17-JUN-2009 08:35:59; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38151
7; 3955.5; 17-JUN-2009 08:37:24; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38151
8; 4412.6; 17-JUN-2009 08:45:01; Dark ; 26.5; 53; 43Bet And ; 2.05; 3300;occ; 53; 0;38151
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13; 6454.4; 17-JUN-2009 09:19:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38151
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 9; 555.7; 18-JUN-2009 03:47:55; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38163
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12; 1440.4; 18-JUN-2009 04:02:40; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38163
13; 2000.4; 18-JUN-2009 04:12:00; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;38163
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16; 2881.4; 18-JUN-2009 04:26:41; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38163
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11; 1336.7; 18-JUN-2009 05:41:32; Dark ; 32.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 65; 0;38164
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13; 2000.2; 18-JUN-2009 05:52:36; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;38164
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16; 2880.9; 18-JUN-2009 06:07:16; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38164
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 5; 570.1; 18-JUN-2009 22:14:45; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38174
 6; 1255.3; 18-JUN-2009 22:26:10; Dark ; 32.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 64; 0;38174
 7; 1339.9; 18-JUN-2009 22:27:35; Dark ; 32.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 64; 0;38174
 8; 1443.2; 18-JUN-2009 22:29:18; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;38174
 9; 1998.2; 18-JUN-2009 22:38:33; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;38174
 10; 2146.3; 18-JUN-2009 22:41:01; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38174
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 4; 440.9; 18-JUN-2009 23:53:12; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38175
 5; 571.0; 18-JUN-2009 23:55:22; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38175
 6; 1255.5; 19-JUN-2009 00:06:46; Dark ; 32.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 64; 0;38175
 7; 1340.0; 19-JUN-2009 00:08:11; Dark ; 32.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 65; 0;38175
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 9; 1998.0; 19-JUN-2009 00:19:09; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38175
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 9; 558.2; 18-JUN-2009 07:09:10; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38165
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 3; 2770.4; 18-JUN-2009 07:46:02; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;38165
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 5; 3468.5; 18-JUN-2009 07:57:40; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38165
 6; 3865.7; 18-JUN-2009 08:04:17; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38165
 7; 3951.7; 18-JUN-2009 08:05:43; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38165
 8; 4413.4; 18-JUN-2009 08:13:25; Dark ; 26.5; 53; 43Bet And ; 2.05; 3300;occ; 53; 0;38165
 9; 4692.0; 18-JUN-2009 08:18:03; Dark ; 24.0; 105; 6Bet Ari ; 2.64; 8900;occ; 48; 0;38165
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4; 2879.8; 18-JUN-2009 09:28:27; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38166
5; 3467.8; 18-JUN-2009 09:38:15; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38166
6; 3865.2; 18-JUN-2009 09:44:53; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38166
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 2; -404.1; 20-JUN-2009 02:28:41; Dark ; 36.5; 52; 16Bet Cet ; 2.04; 4500;occ; 73; 0;38190
 3; -48.7; 20-JUN-2009 02:34:37; Dark ; 30.5; 84; Alp Phe ; 2.40; 4500;occ; 61; 0;38190
 4; 333.6; 20-JUN-2009 02:40:59; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38191
 5; 457.0; 20-JUN-2009 02:43:02; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38191
 6; 592.4; 20-JUN-2009 02:45:18; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38191
 7; 1227.5; 20-JUN-2009 02:55:53; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38191
 8; 1314.6; 20-JUN-2009 02:57:20; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38191
 9; 1447.2; 20-JUN-2009 02:59:33; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;38191
 10; 1995.1; 20-JUN-2009 03:08:41; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38191
 11; 2142.2; 20-JUN-2009 03:11:08; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38191
 12; 2749.3; 20-JUN-2009 03:21:15; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;38191
 13; 2868.5; 20-JUN-2009 03:23:14; Bright; 29.5; 69; 33Gam Dra ; 2.23; 3800;occ; 59; 0;38191
 14; 3450.4; 20-JUN-2009 03:32:56; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38191

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 2; -2091.6; 20-JUN-2009 03:41:10; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38191
 3; -1765.0; 20-JUN-2009 03:46:36; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38191
 4; -1621.2; 20-JUN-2009 03:49:00; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38191
 5; -1400.6; 20-JUN-2009 03:52:41; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38191
 6; -504.1; 20-JUN-2009 04:07:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38191
 7; -403.0; 20-JUN-2009 04:09:18; Dark ; 36.5; 52; 16Bet Cet ; 2.04; 4500;occ; 73; 0;38191
 8; -48.3; 20-JUN-2009 04:15:13; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38191
 9; 334.9; 20-JUN-2009 04:21:36; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38192
 10; 457.6; 20-JUN-2009 04:23:39; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38192
 11; 593.4; 20-JUN-2009 04:25:55; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38192
 12; 1227.8; 20-JUN-2009 04:36:29; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38192

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13; 1315.1; 20-JUN-2009 04:37:57; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38192
14; 1447.7; 20-JUN-2009 04:40:09; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38192
15; 1995.2; 20-JUN-2009 04:49:17; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38192
16; 2142.2; 20-JUN-2009 04:51:44; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38192
17; 2748.4; 20-JUN-2009 05:01:50; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38192
18; 2846.0; 20-JUN-2009 05:03:27; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38192
19; 3449.7; 20-JUN-2009 05:13:31; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38192
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 3; -1764.9; 20-JUN-2009 05:27:13; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38192
 4; -1621.1; 20-JUN-2009 05:29:36; Dark ; 26.5; 53; 43Bet And ; 2.05; 3300;occ; 53; 0;38192
 5; -1400.3; 20-JUN-2009 05:33:17; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38192
 6; -502.8; 20-JUN-2009 05:48:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38192
 7; -401.7; 20-JUN-2009 05:49:56; Dark ; 36.5; 52; 16Bet Cet ; 2.04; 4500;occ; 73; 0;38192
 8; -47.4; 20-JUN-2009 05:55:50; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38192
 9; 335.6; 20-JUN-2009 06:02:13; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38193
10; 458.7; 20-JUN-2009 06:04:16; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38193
11; 594.6; 20-JUN-2009 06:06:32; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38193
12; 1228.2; 20-JUN-2009 06:17:06; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38193
13; 1315.5; 20-JUN-2009 06:18:33; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38193
14; 1448.0; 20-JUN-2009 06:20:45; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38193
15; 1994.8; 20-JUN-2009 06:29:52; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38193
16; 2141.8; 20-JUN-2009 06:32:19; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38193
17; 2747.6; 20-JUN-2009 06:42:25; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38193
18; 2845.4; 20-JUN-2009 06:44:03; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38193
19; 3449.1; 20-JUN-2009 06:54:07; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38193
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 2; 1317.3; 20-JUN-2009 19:43:22; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38201
 3; 1449.6; 20-JUN-2009 19:45:35; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38201
 4; 1993.8; 20-JUN-2009 19:54:39; Bright; 29.0; 126; 60Bet Oph ; 2.77; 4250;occ; 58; 0;38201
 5; 2140.0; 20-JUN-2009 19:57:05; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38201
 6; 2741.3; 20-JUN-2009 20:07:06; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38201
 7; 2842.9; 20-JUN-2009 20:08:48; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38201
 8; 3443.5; 20-JUN-2009 20:18:48; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38201
 9; 3851.6; 20-JUN-2009 20:25:37; Bright; 27.5; 74; 11Bet Cas ; 2.27; 6600;occ; 55; 0;38201
10; 3941.0; 20-JUN-2009 20:27:06; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38201
11; 4271.0; 20-JUN-2009 20:32:36; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38201
12; 4415.4; 20-JUN-2009 20:35:00; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38201
13; 4637.9; 20-JUN-2009 20:38:43; Dark ; 23.0; 50; 13Alp Ari ; 2.01; 4250;occ; 46; 0;38201
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 3; -39.9; 20-JUN-2009 21:01:21; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38201
 4; 344.2; 20-JUN-2009 21:07:45; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38202
 5; 467.2; 20-JUN-2009 21:09:48; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38202
 6; 605.8; 20-JUN-2009 21:12:07; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38202
 7; 1230.6; 20-JUN-2009 21:22:31; Dark ; 28.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 57; 0;38202
 8; 1318.3; 20-JUN-2009 21:23:59; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38202
 9; 1449.9; 20-JUN-2009 21:26:11; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38202
10; 1993.6; 20-JUN-2009 21:35:14; Bright; 29.0; 126; 60Bet Oph ; 2.77; 4250;occ; 58; 0;38202
11; 2139.8; 20-JUN-2009 21:37:41; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38202
12; 2740.4; 20-JUN-2009 21:47:41; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38202
13; 2842.6; 20-JUN-2009 21:49:23; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38202
14; 3442.8; 20-JUN-2009 21:59:24; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38202
15; 3851.5; 20-JUN-2009 22:06:12; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38202
16; 3940.8; 20-JUN-2009 22:07:42; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38202
17; 4415.2; 20-JUN-2009 22:15:36; Dark ; 27.5; 53; 43Bet And ; 2.05; 3300;occ; 55; 0;38202
18; 4638.0; 20-JUN-2009 22:19:19; Dark ; 23.0; 50; 13Alp Ari ; 2.01; 4250;occ; 46; 0;38202
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 2; -389.4; 20-JUN-2009 22:36:07; Dark ; 37.5; 52; 16Bet Cet ; 2.04; 4500;occ; 75; 0;38202
 3; -38.8; 20-JUN-2009 22:41:58; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38202
 4; 345.4; 20-JUN-2009 22:48:22; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38203
 5; 468.5; 20-JUN-2009 22:50:25; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38203
 6; 606.9; 20-JUN-2009 22:52:44; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38203
 7; 1231.0; 20-JUN-2009 23:03:08; Dark ; 28.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 57; 0;38203

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8; 1317.8; 20-JUN-2009 23:04:35; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38203
 9; 1450.3; 20-JUN-2009 23:06:47; Bright; 34.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 69; 0;38203
 10; 1993.0; 20-JUN-2009 23:15:50; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38203
 11; 2139.4; 20-JUN-2009 23:18:16; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38203
 12; 2739.6; 20-JUN-2009 23:28:16; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38203
 13; 2842.0; 20-JUN-2009 23:29:59; Bright; 28.5; 130; 23Bet Dra ; 2.80; 5800;occ; 57; 0;38203
 14; 3442.4; 20-JUN-2009 23:39:59; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38203
 15; 3850.9; 20-JUN-2009 23:46:48; Bright; 27.5; 74; 11Bet Cas ; 2.27; 6600;occ; 55; 0;38203
 16; 3940.3; 20-JUN-2009 23:48:17; Bright; 26.5; 68; 18Alp Cas ; 2.22; 4500;occ; 53; 0;38203
 17; 4415.4; 20-JUN-2009 23:56:12; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38203
 18; 4638.2; 20-JUN-2009 23:59:55; Dark ; 23.0; 50; 13Alp Ari ; 2.01; 4250;occ; 46; 0;38203

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 2;-2092.4; 20-JUN-2009 07:02:21; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38193
 3;-1764.9; 20-JUN-2009 07:07:49; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38193
 4;-1621.0; 20-JUN-2009 07:10:12; Dark ; 26.5; 53; 43Bet And ; 2.05; 3300;occ; 53; 0;38193
 5;-1400.0; 20-JUN-2009 07:13:53; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38193
 6; -501.4; 20-JUN-2009 07:28:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38193
 7; -400.3; 20-JUN-2009 07:30:33; Dark ; 36.5; 52; 16Bet Cet ; 2.04; 4500;occ; 73; 0;38193
 8; -46.5; 20-JUN-2009 07:36:27; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38193
 9; 336.2; 20-JUN-2009 07:42:50; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38194
 10; 459.6; 20-JUN-2009 07:44:53; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38194
 11; 595.7; 20-JUN-2009 07:47:09; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38194
 12; 1228.5; 20-JUN-2009 07:57:42; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38194
 13; 1315.6; 20-JUN-2009 07:59:09; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38194
 14; 1448.4; 20-JUN-2009 08:01:22; Bright; 34.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 68; 0;38194

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 2; 2141.6; 20-JUN-2009 08:12:55; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38194
 3; 2746.9; 20-JUN-2009 08:23:00; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38194
 4; 2845.1; 20-JUN-2009 08:24:39; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38194
 5; 3448.4; 20-JUN-2009 08:34:42; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38194
 6; 3854.8; 20-JUN-2009 08:41:28; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38194
 7; 3943.3; 20-JUN-2009 08:42:57; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38194
 8; 4270.8; 20-JUN-2009 08:48:24; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38194
 9; 4414.9; 20-JUN-2009 08:50:48; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38194
 10; 4636.1; 20-JUN-2009 08:54:29; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38194
 11; 5535.8; 20-JUN-2009 09:09:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38194
 12; 5636.5; 20-JUN-2009 09:11:10; Dark ; 37.0; 52; 16Bet Cet ; 2.04; 4500;occ; 74; 0;38194
 13; 5990.3; 20-JUN-2009 09:17:04; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38194
 14; 6373.7; 20-JUN-2009 09:23:27; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38194
 15; 6496.4; 20-JUN-2009 09:25:30; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38194
 16; 6632.6; 20-JUN-2009 09:27:46; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38194
 17; 7264.5; 20-JUN-2009 09:38:18; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38194
 18; 7351.4; 20-JUN-2009 09:39:45; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38194
 19; 7484.2; 20-JUN-2009 09:41:58; Bright; 34.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 69; 0;38194

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 3; 2746.0; 20-JUN-2009 10:03:35; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38195
 4; 2844.5; 20-JUN-2009 10:05:14; Bright; 28.5; 130; 23Bet Dra ; 2.80; 5800;occ; 57; 0;38195
 5; 3447.6; 20-JUN-2009 10:15:17; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38195
 6; 3854.2; 20-JUN-2009 10:22:04; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38195
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 8; 4271.0; 20-JUN-2009 10:29:00; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38195
 9; 4414.9; 20-JUN-2009 10:31:24; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38195
 10; 4636.5; 20-JUN-2009 10:35:06; Dark ; 23.0; 50; 13Alp Ari ; 2.01; 4250;occ; 46; 0;38195
 11; 5537.1; 20-JUN-2009 10:50:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38195
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 13; 5990.8; 20-JUN-2009 10:57:40; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38195
 14; 6374.3; 20-JUN-2009 11:04:04; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38195
 15; 6497.5; 20-JUN-2009 11:06:07; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38195
 16; 6634.0; 20-JUN-2009 11:08:23; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38195
 17; 7265.0; 20-JUN-2009 11:18:54; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38195
 18; 7352.1; 20-JUN-2009 11:20:21; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38195
 19; 7484.9; 20-JUN-2009 11:22:34; Bright; 34.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 68; 0;38195

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4; 2938.0; 29-JUN-2009 20:27:37; Bright; 51.0; 144; 18Del Cyg ; 2.86; 11000;occ; 102; 0;38330
5; 3354.9; 29-JUN-2009 20:34:34; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38330
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6; 1477.7; 29-JUN-2009 21:43:53; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;38331
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6; 3896.5; 29-JUN-2009 12:20:36; Bright; 42.5; 68; 18Alp Cas ; 2.22; 4500;occ; 85; 0;38325
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