

GOMOS Daily Report 19-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	22JUN2009 04:36:37
Data source version	GOMOS/5.00
Start time of products	19JUN2009 00:06:46
Stop time of products	19JUN2009 05:08:35
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

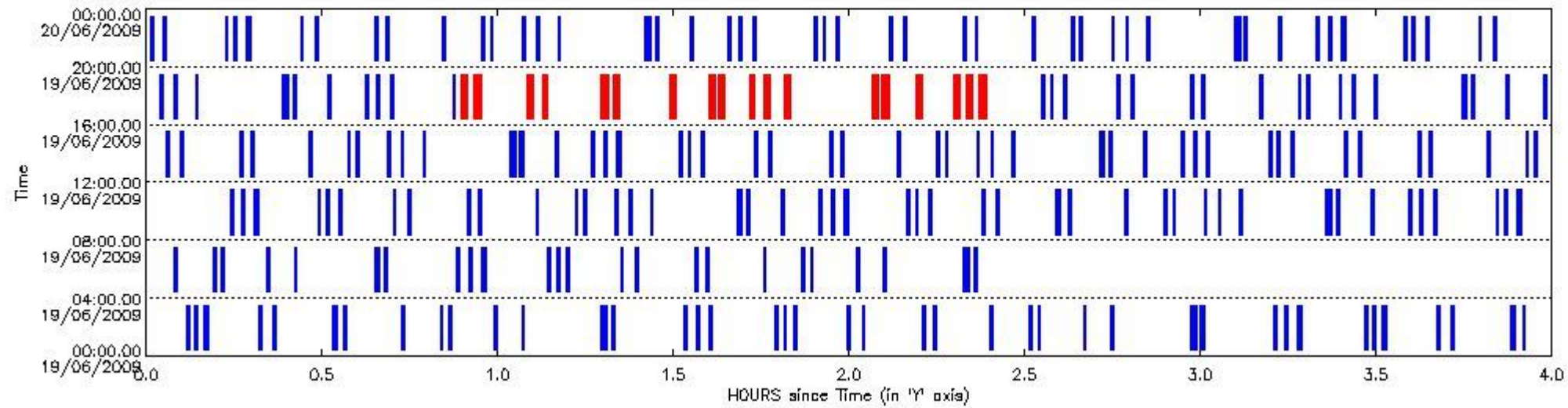
2.1 Level 0 products arrived in PCF (see template [here](#))

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.

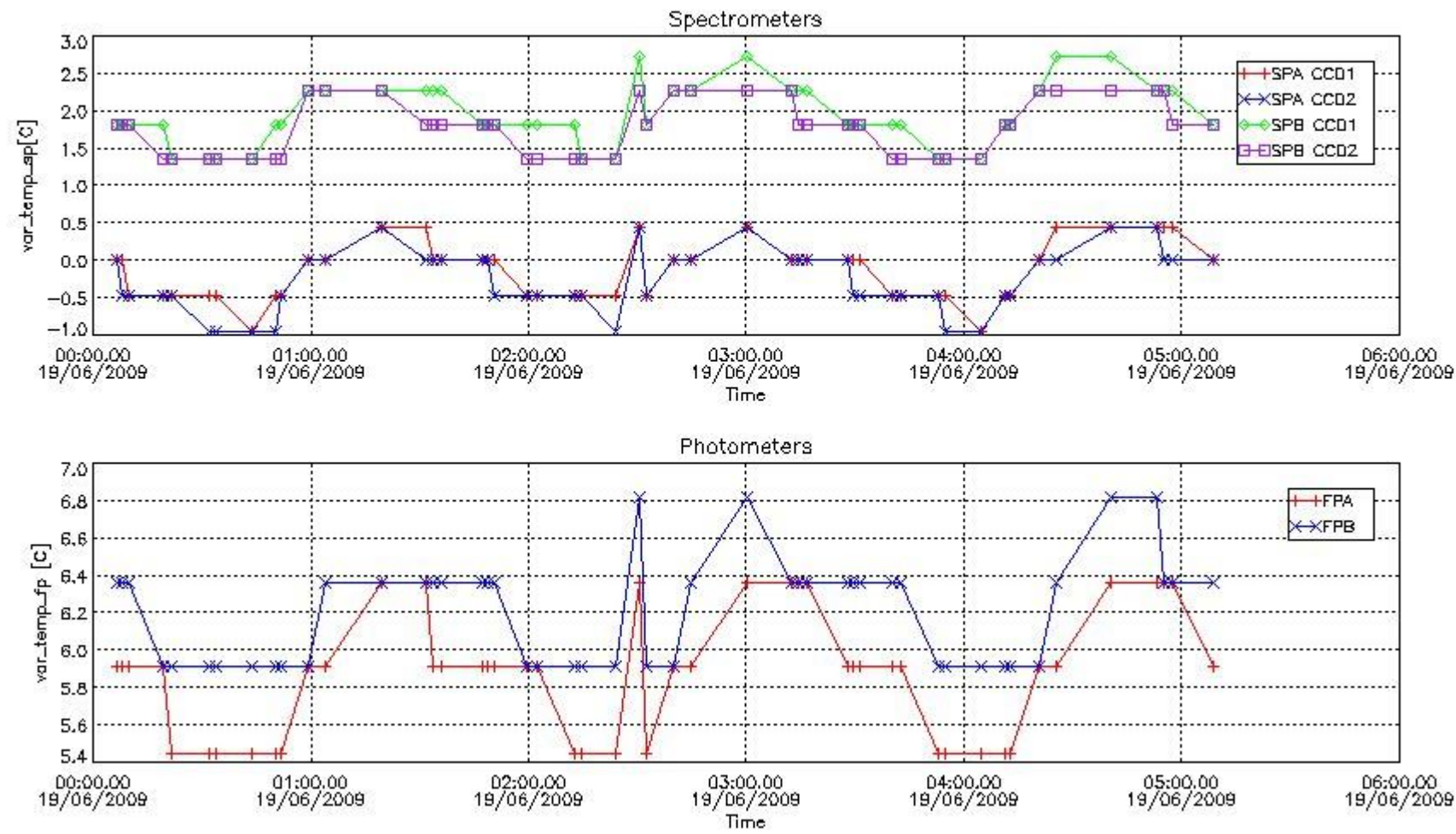
Green segments are calibration measurements (not available products to users).



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

UTC start time	Star name	Star ID	Orbit
19-JUN-2009 16:53:41	19DelSgr	116	38185
19-JUN-2009 16:55:54	41PiSgr	155	38185
19-JUN-2009 17:05:04	60BetOph	126	38185
19-JUN-2009 17:07:32	55AlpOph	59	38185
19-JUN-2009 17:17:42	3AlpLyr	5	38185
19-JUN-2009 17:19:39	33GamDra	69	38185
19-JUN-2009 17:29:23	5AlpCep	89	38185
19-JUN-2009 17:36:06	11BetCas	74	38185
19-JUN-2009 17:37:34	18AlpCas	68	38185
19-JUN-2009 17:42:59	57Gam1And	73	38185
19-JUN-2009 17:45:23	43BetAnd	53	38185
19-JUN-2009 17:49:02	13AlpAri	50	38185
19-JUN-2009 18:03:52	DSA1068	0	38185
19-JUN-2009 18:05:34	16BetCet	52	38185
19-JUN-2009 18:11:31	AlpPhe	84	38185

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



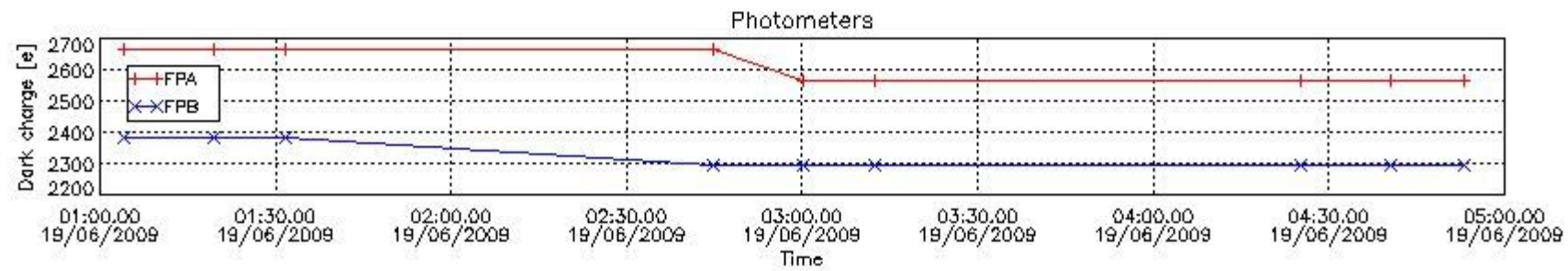
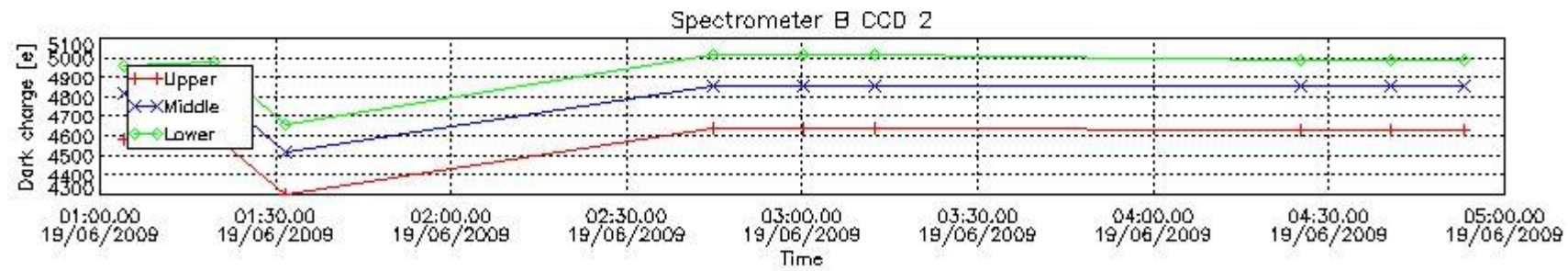
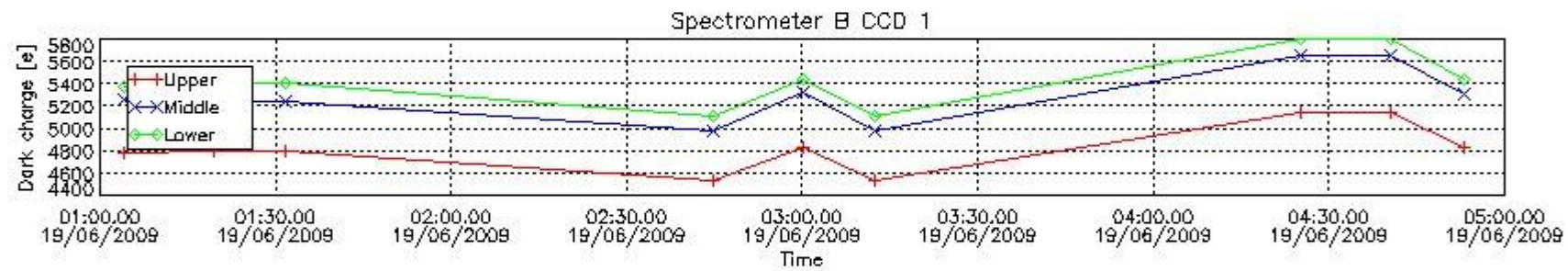
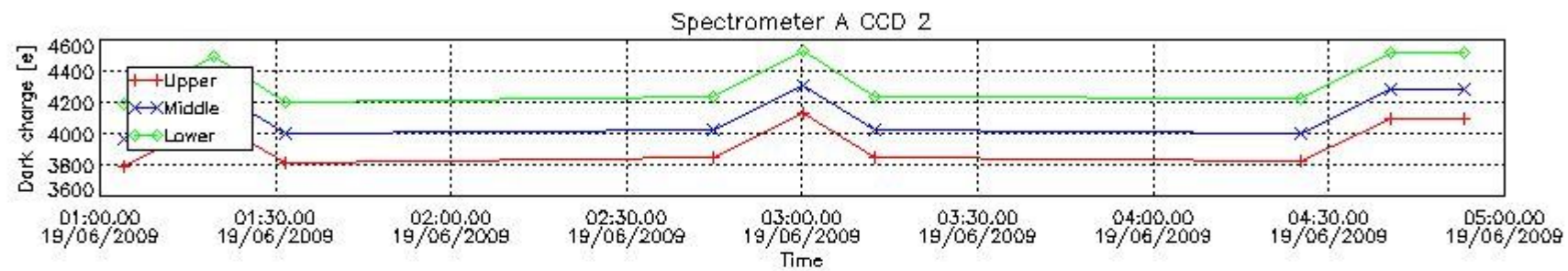
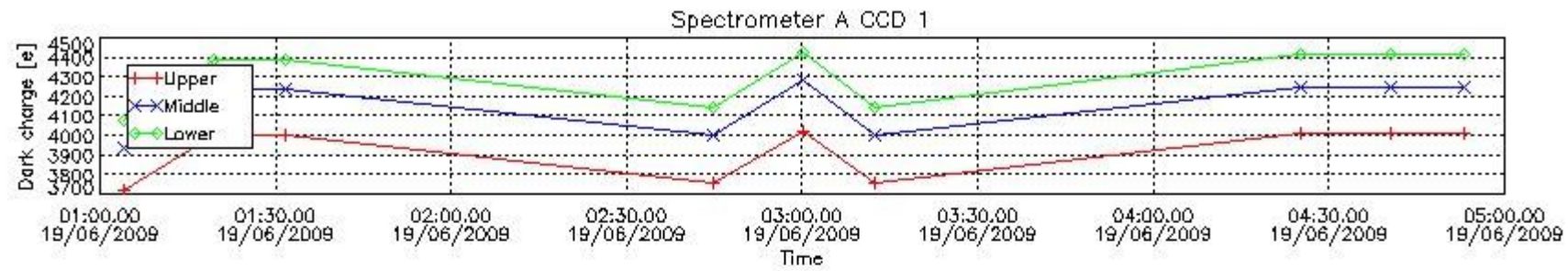
4. Overview of dark signal processing per product

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



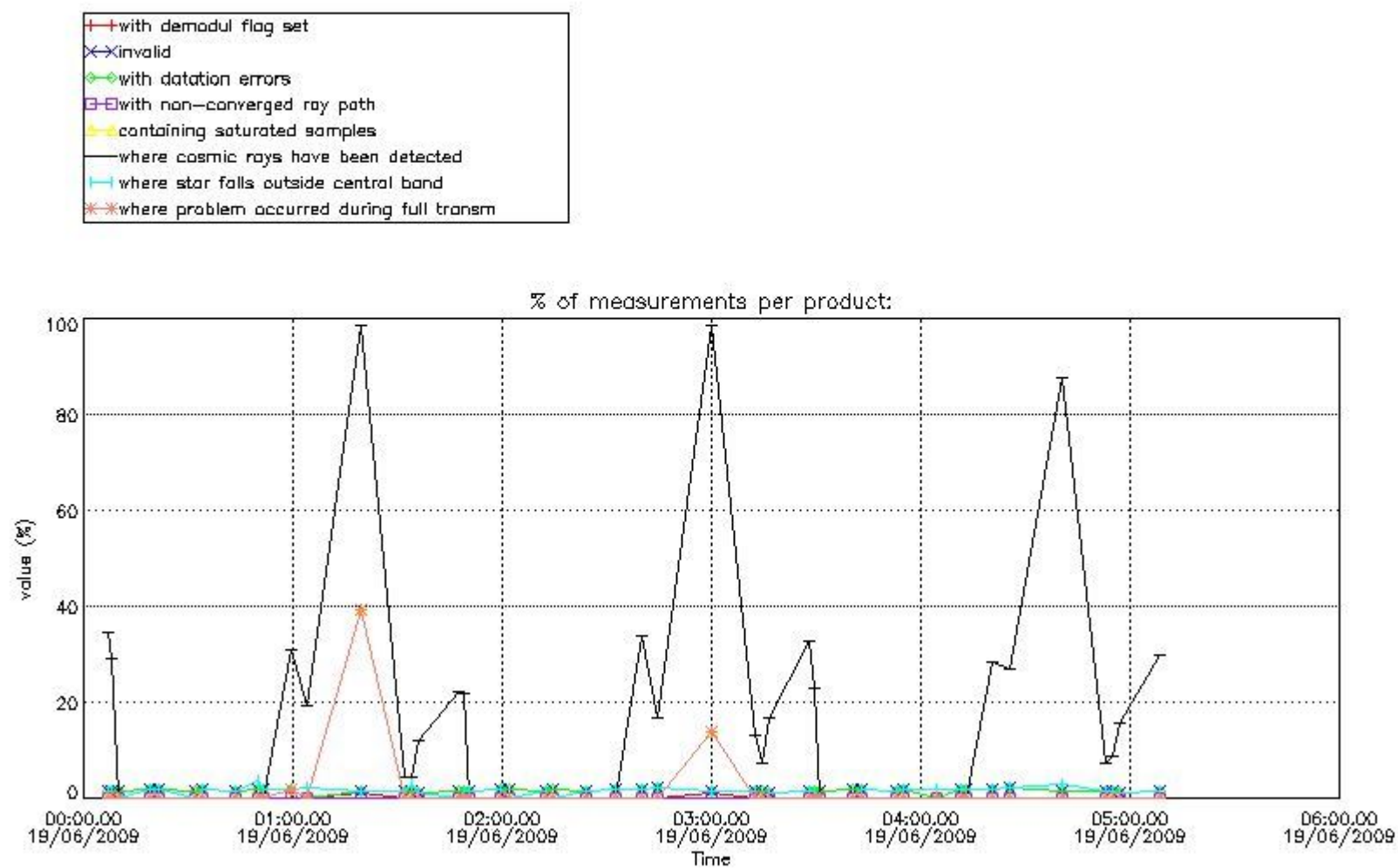
5. Demodulation flag and quality information monitoring

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.

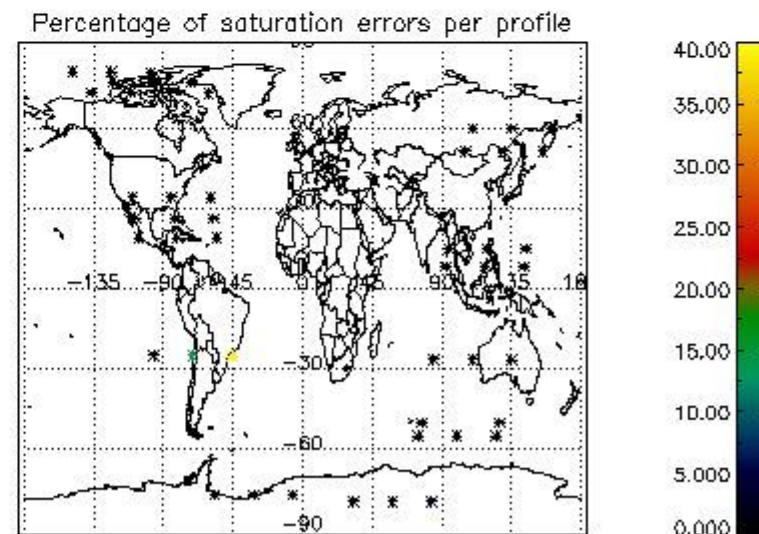
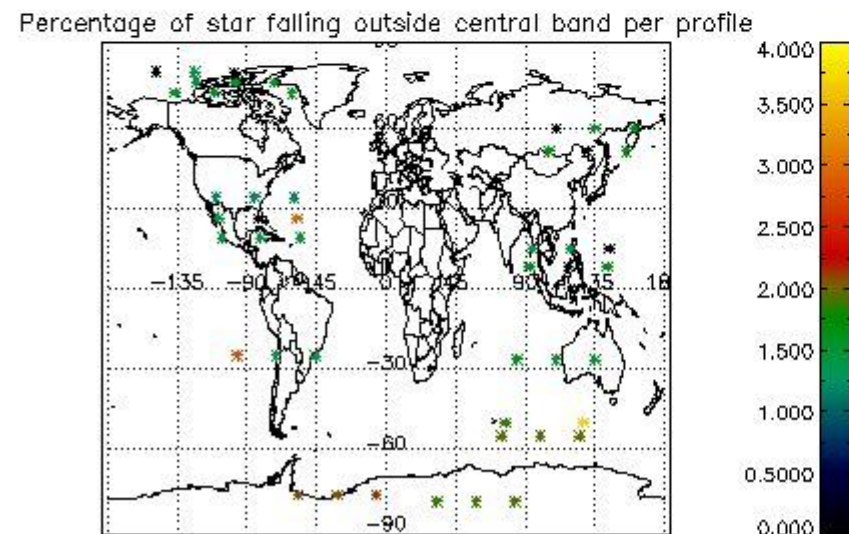
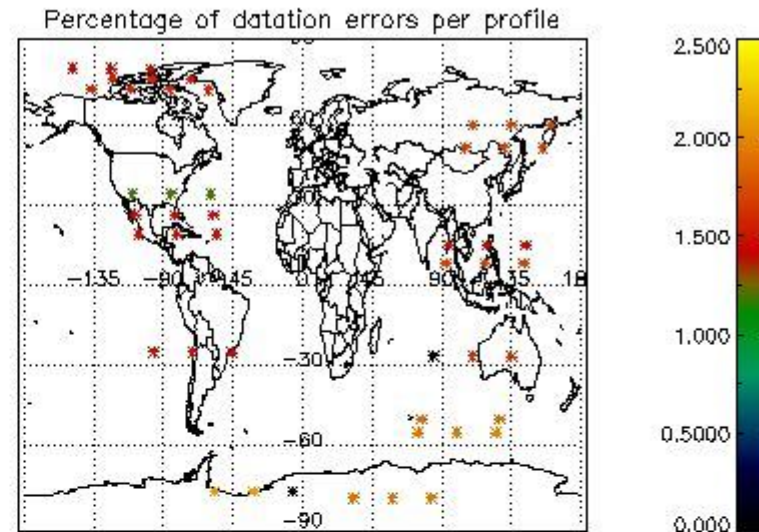
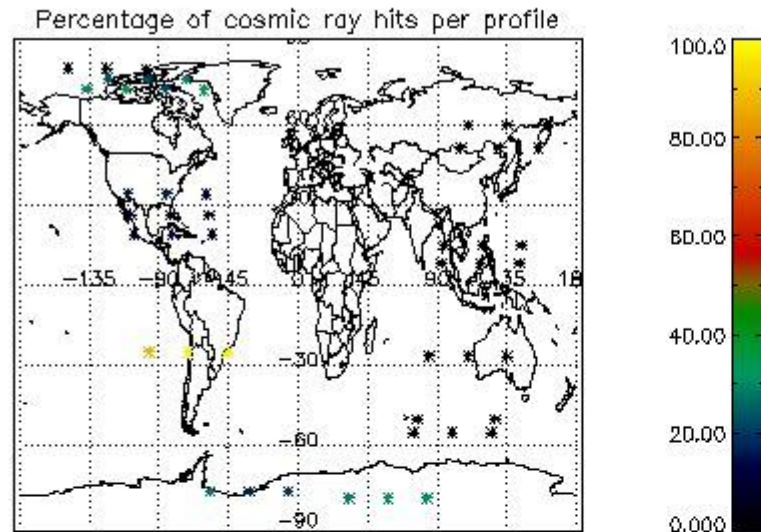
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	37.5000 %
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)



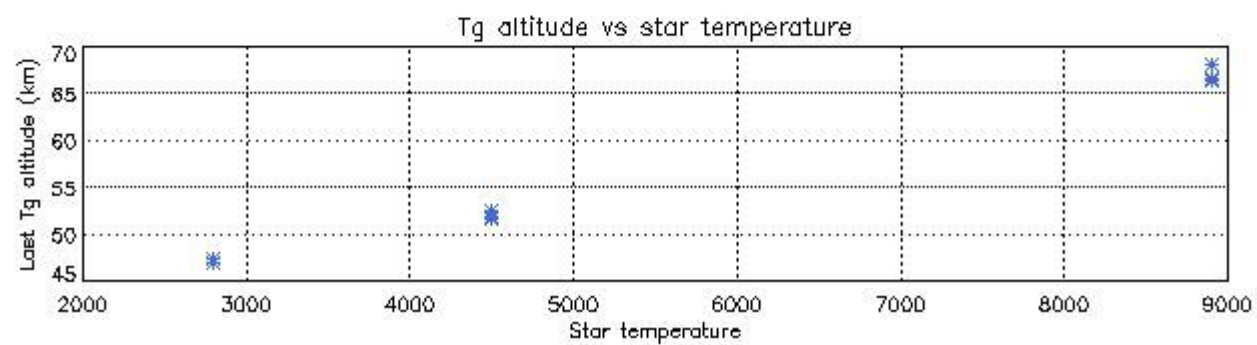
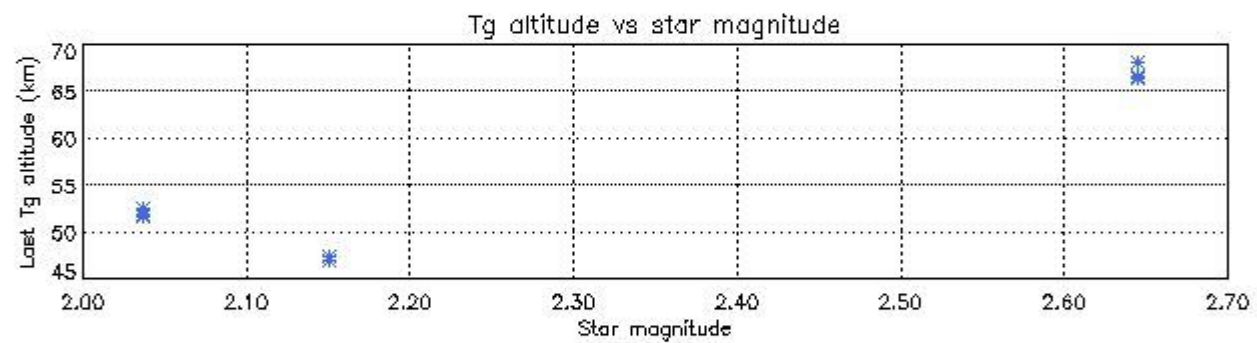
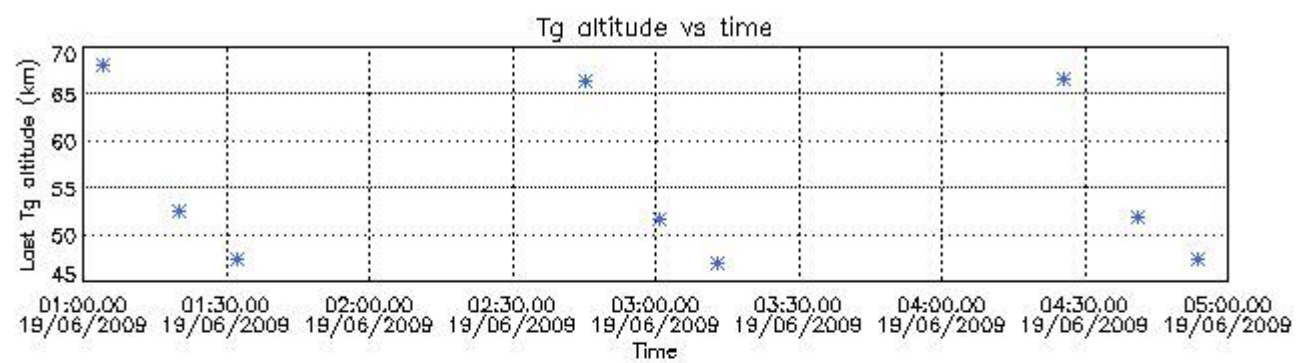
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	55.417	49.260	NaN
St. deviation:	8.9850	0.66992	NaN
Maximum:	68.181	50.351	NaN
Minimum:	46.966	48.301	NaN
Number of data:	9.0000	10.000	NaN

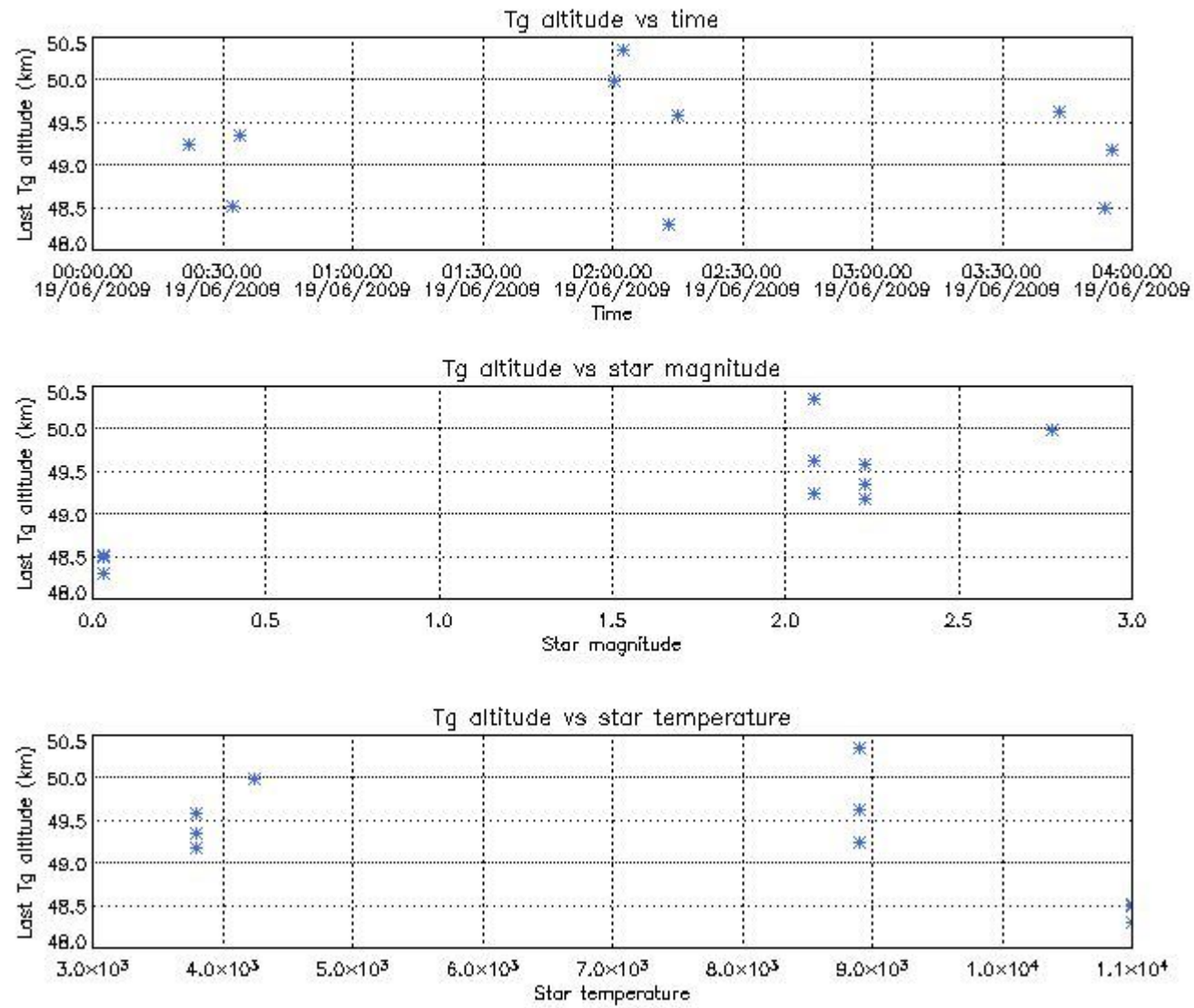
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

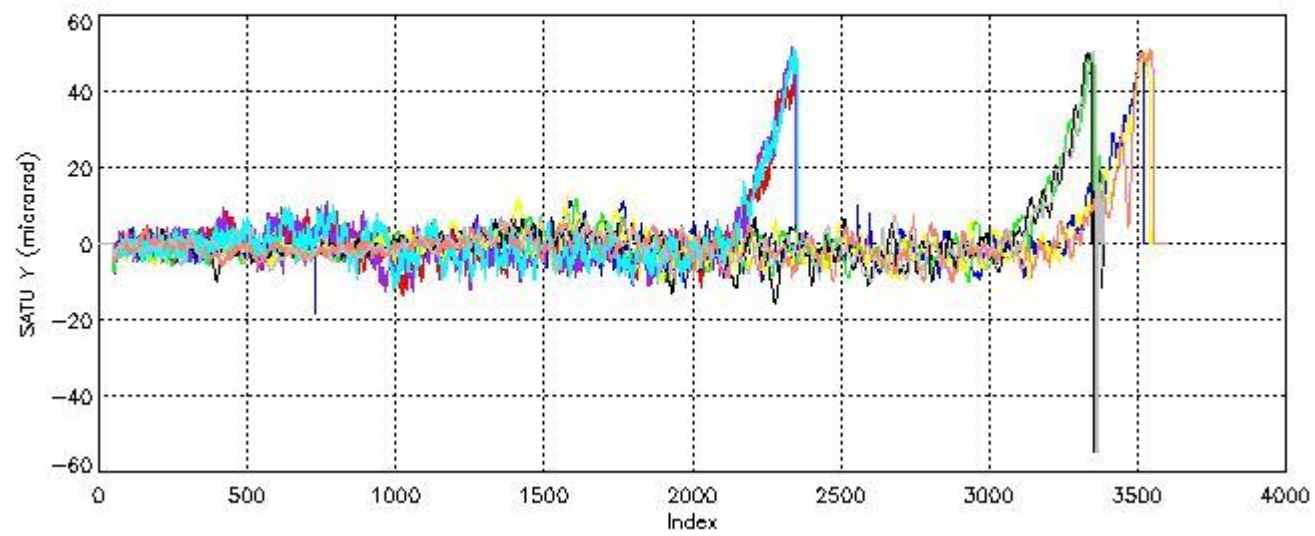
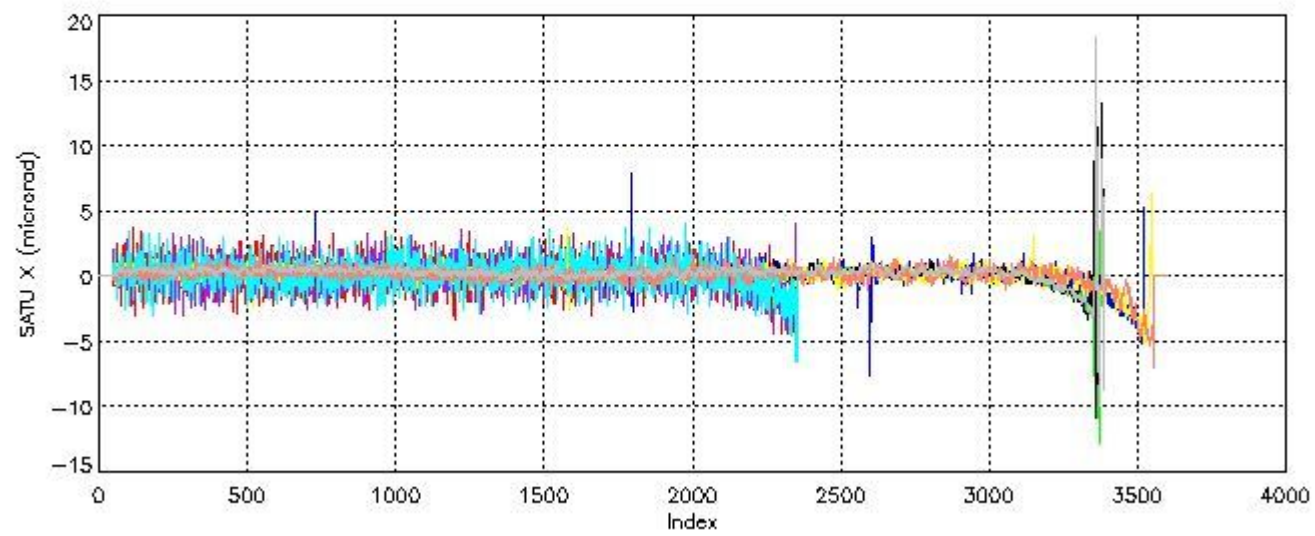


7. Star Acquisition and Tracking Unit (SATU)

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:	0.27578	-0.49928	0.34780	-1.1286
St. deviation:	0.52986	2.3127	0.47811	1.8359
Maximum:	4.8000	11.100	3.0000	6.1000
Minimum:	-3.1000	-18.300	-2.4000	-8.9000

Number of data:	10000.	10000.	10100.	10100.
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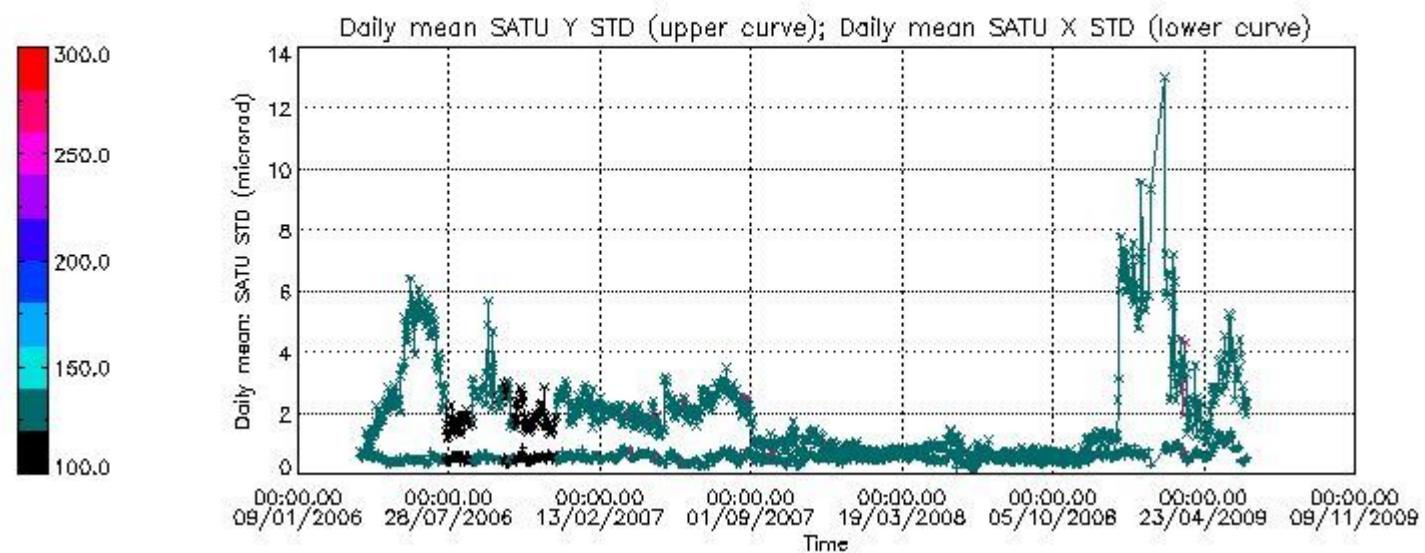
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

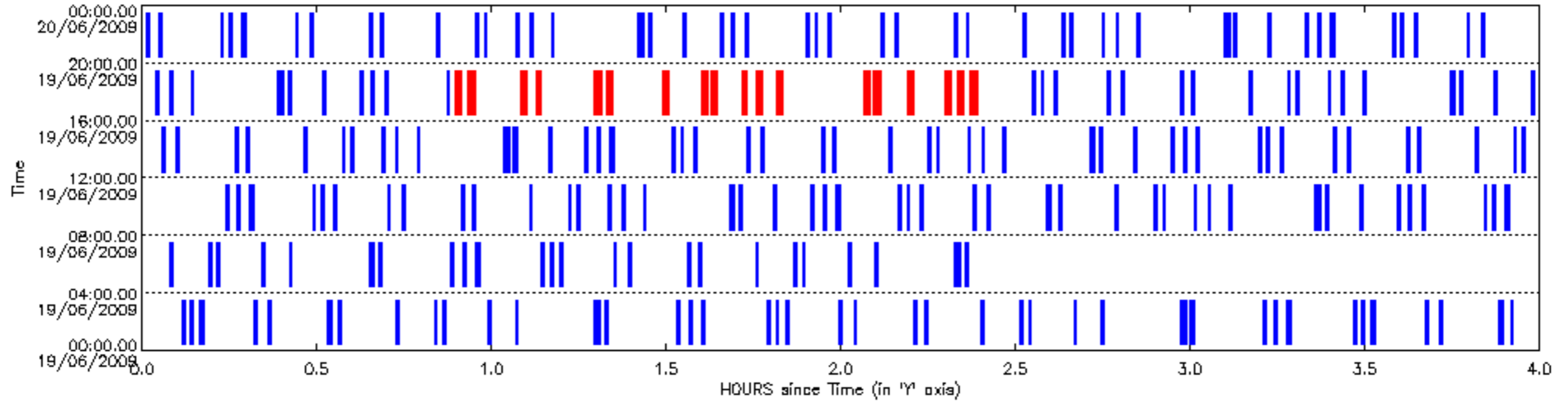
Lower curve: STD of SATU X axis

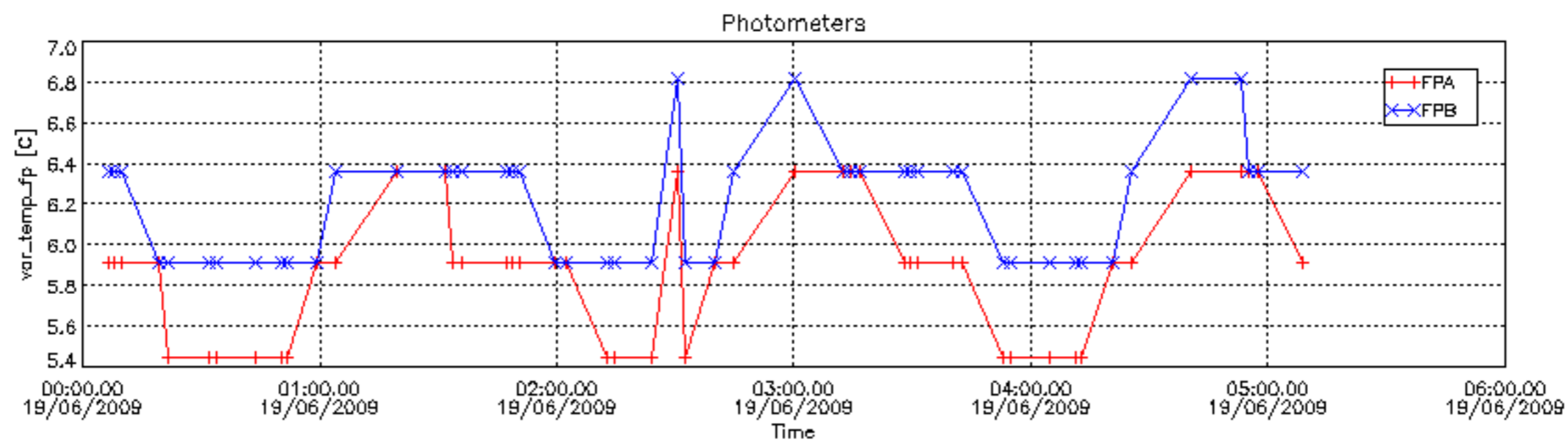
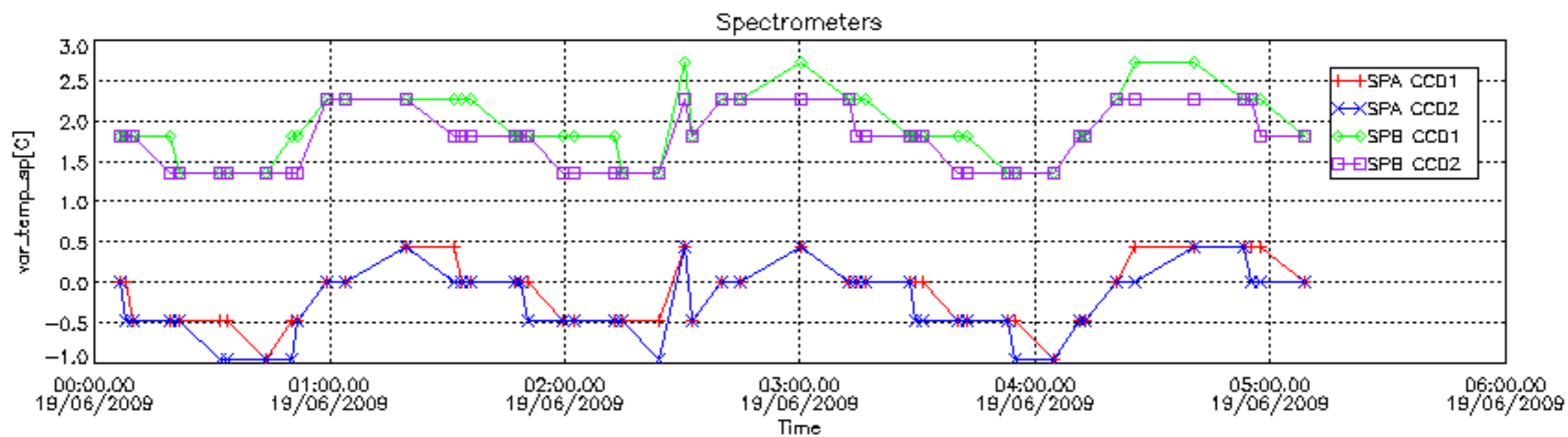


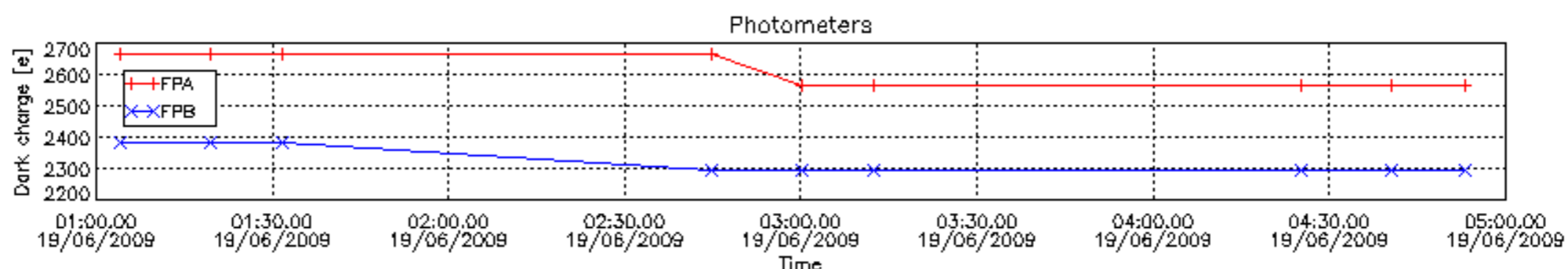
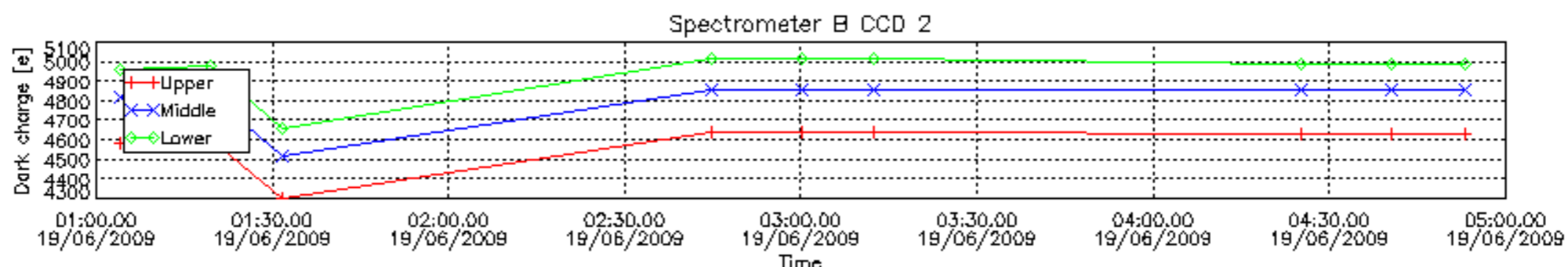
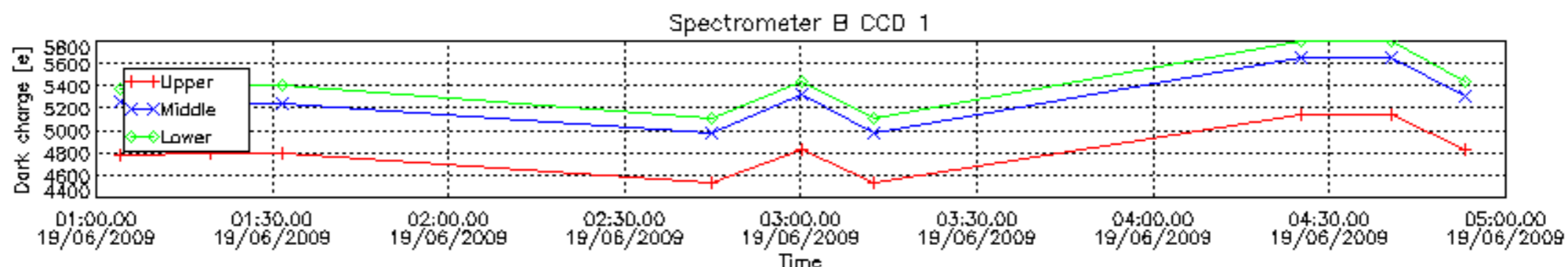
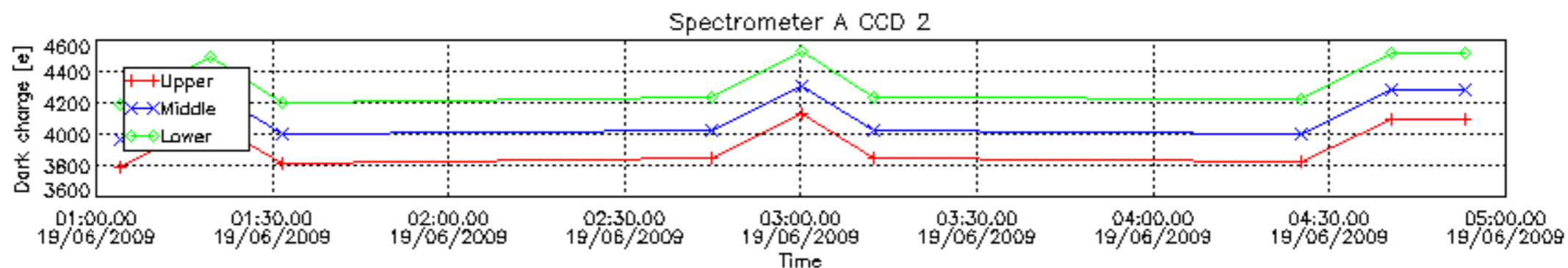
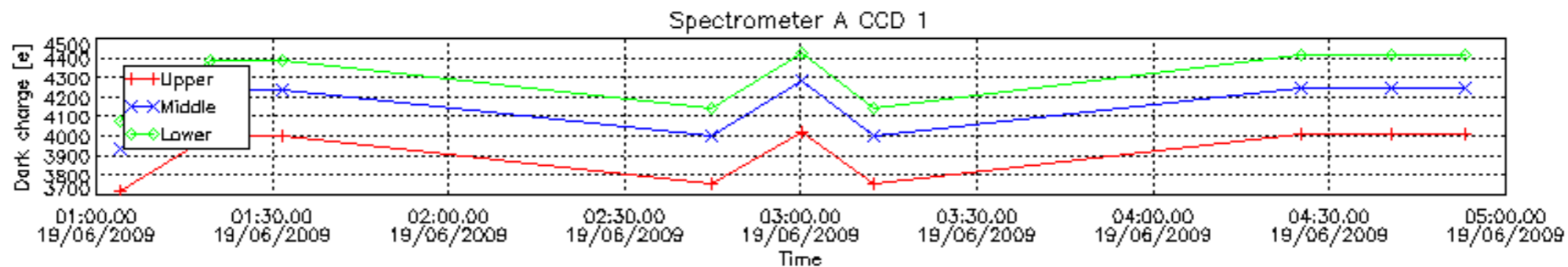
8. Auxiliary Data Files used for the production reported in section 2.4

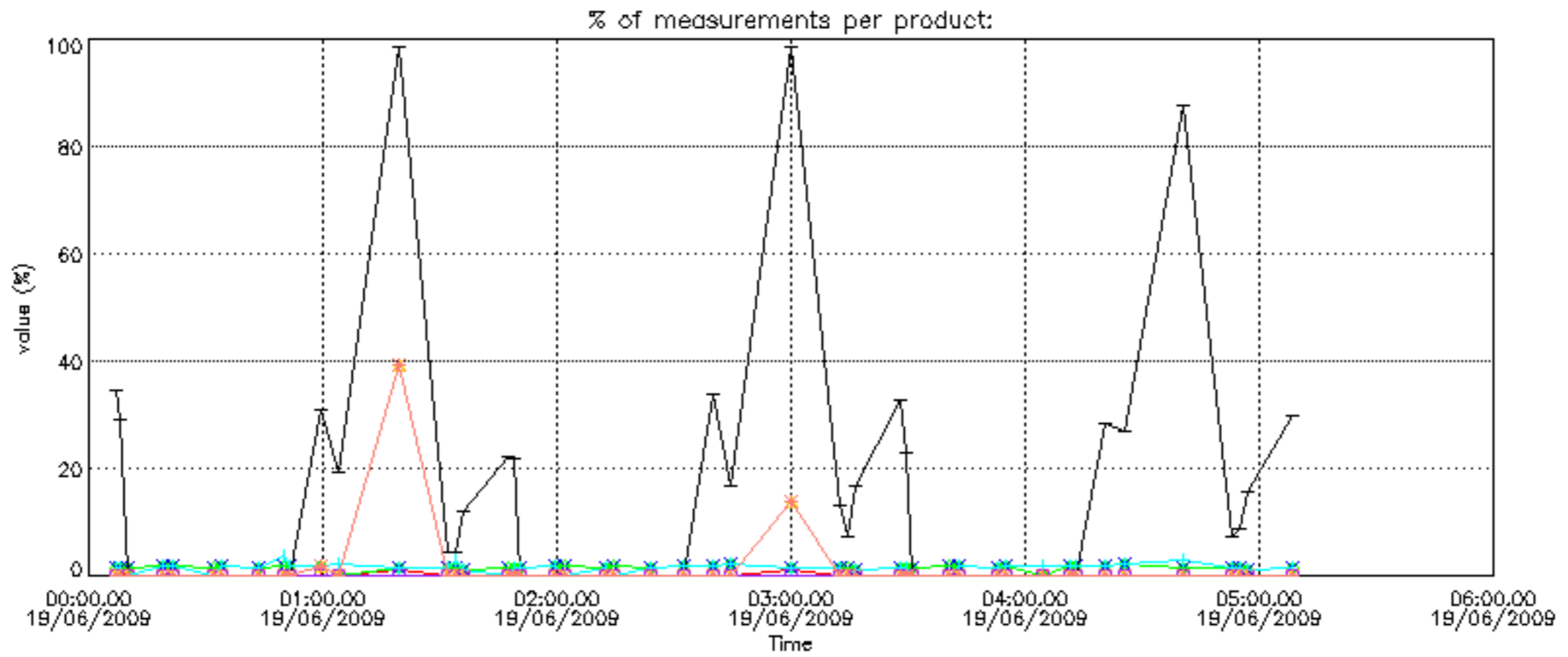
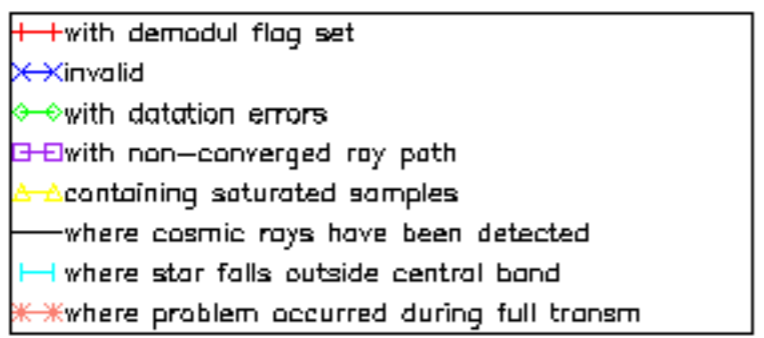
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	19-JUN-2009 00:06:46
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090615_121800_20090613_000000_20100101_000000	1	19-JUN-2009 00:06:46
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	19-JUN-2009 00:06:46
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-JUN-2009 00:06:46
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	19-JUN-2009 00:06:46
ECMWF_FILE	AUX_ECF_AXNECM20090618_064112_20090618_210000_20090619_090000	1	19-JUN-2009 00:06:46
OPTIONAL_ECMWF_FILE	MISSING	1	19-JUN-2009 00:06:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090618_214850_000057382080_00043_38173_8179.N1	1	19-JUN-2009 00:06:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090618_232947_000057382080_00044_38174_8180.N1	13	19-JUN-2009 01:19:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090619_011044_000044632080_00045_38175_8181.N1	25	19-JUN-2009 02:30:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090619_023026_000054192080_00046_38176_8182.N1	41	19-JUN-2009 04:11:24

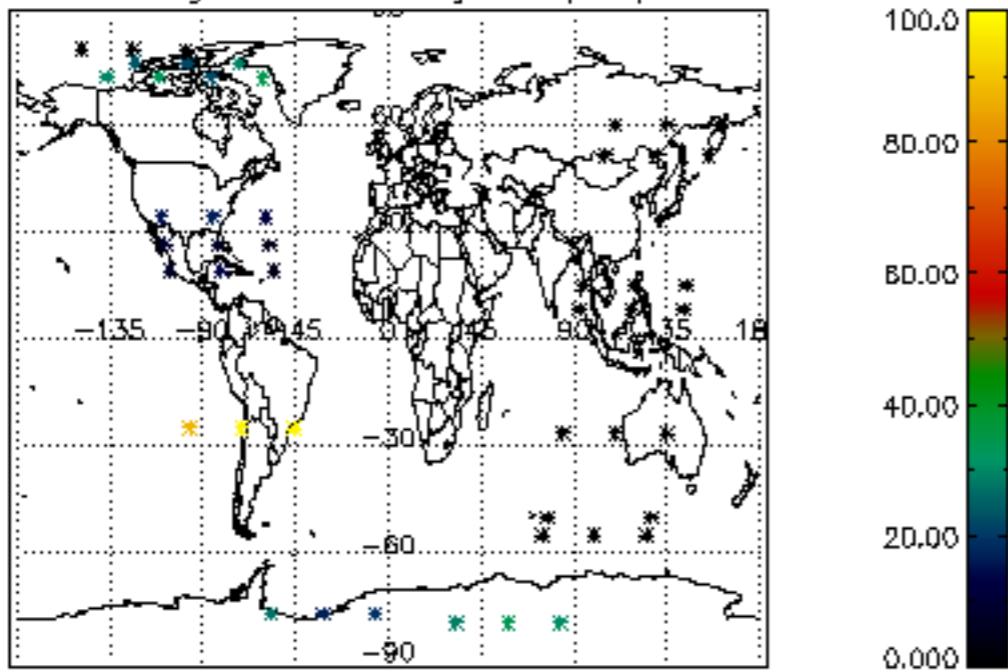




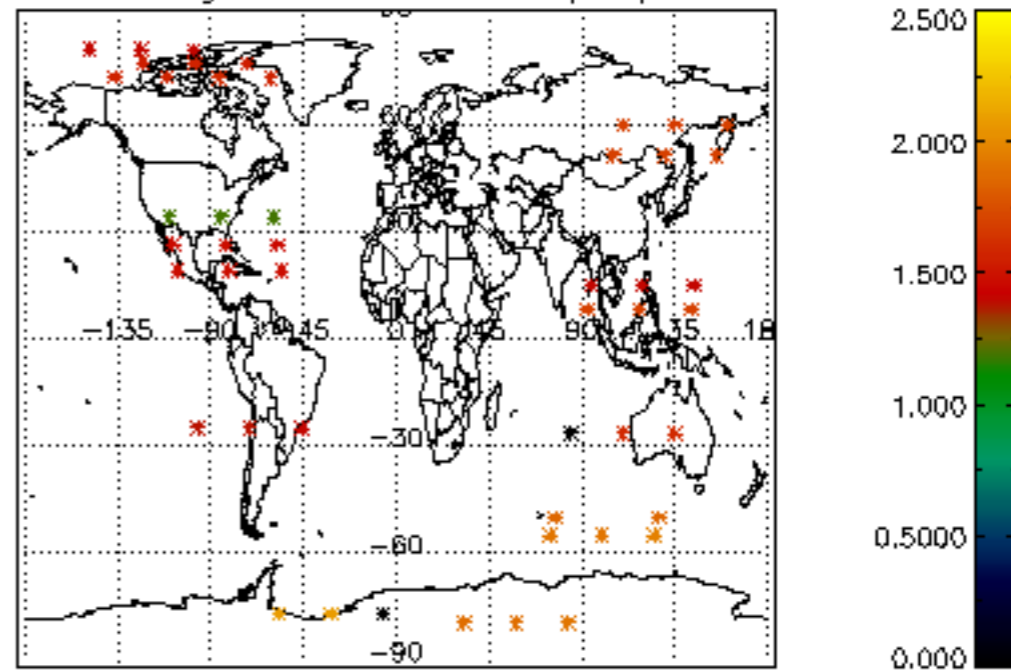




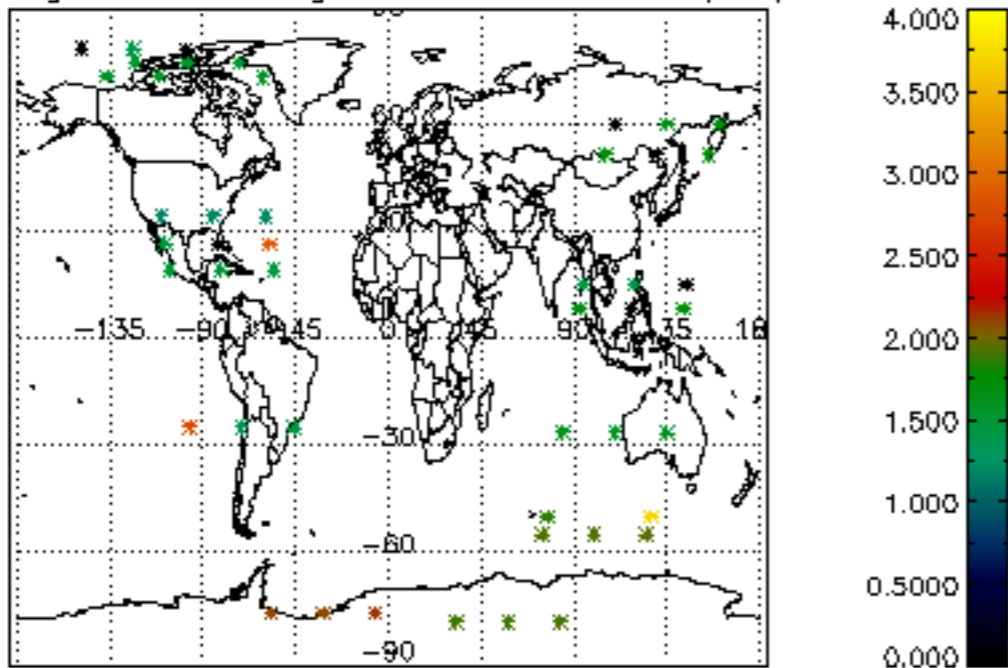
Percentage of cosmic ray hits per profile



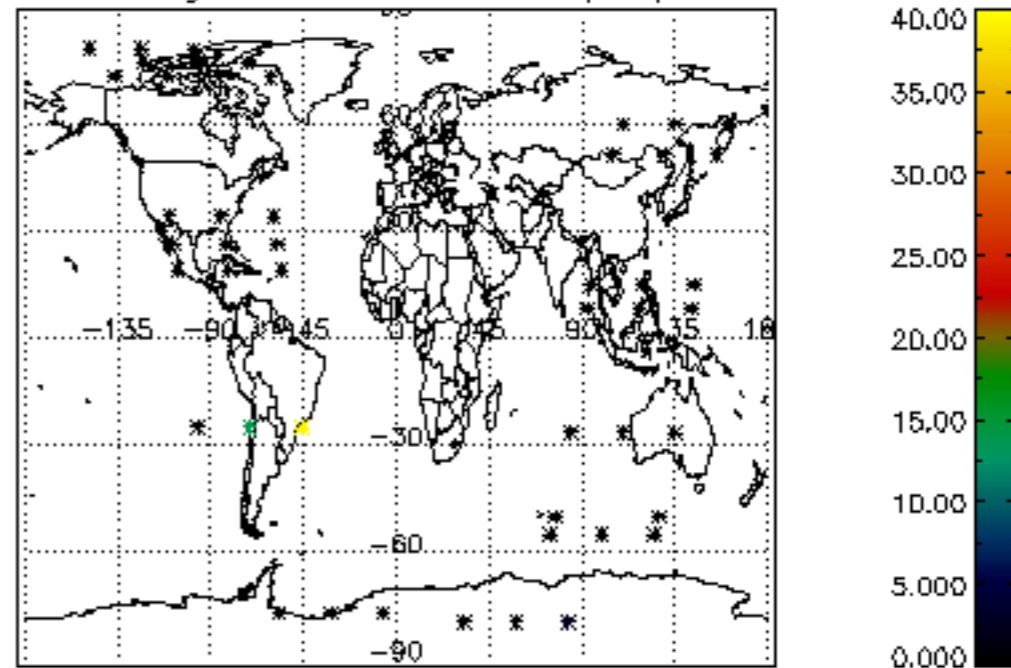
Percentage of datation errors per profile



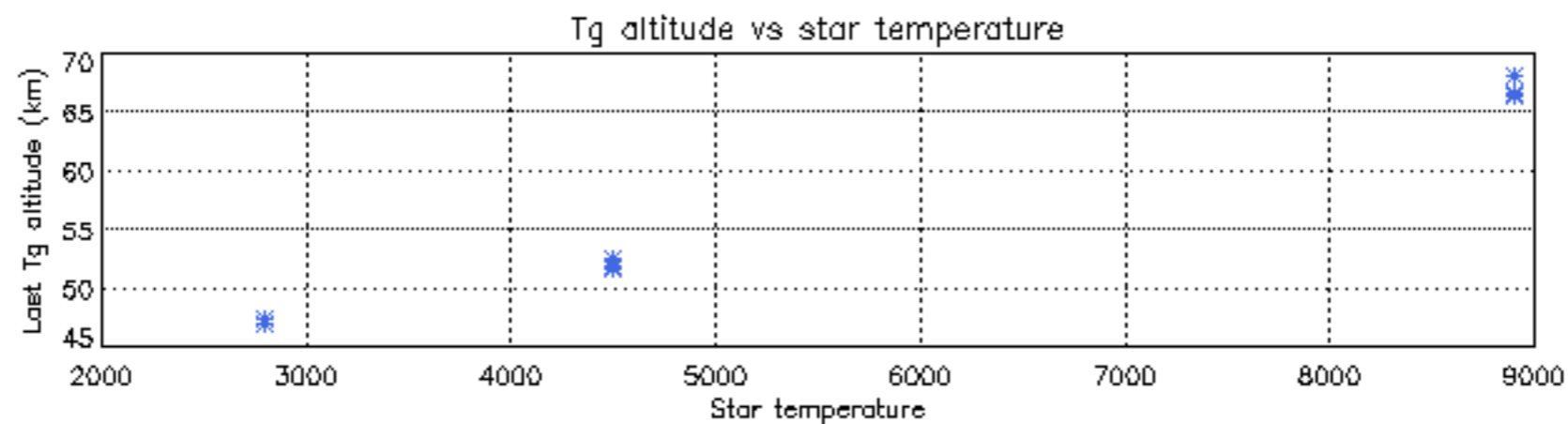
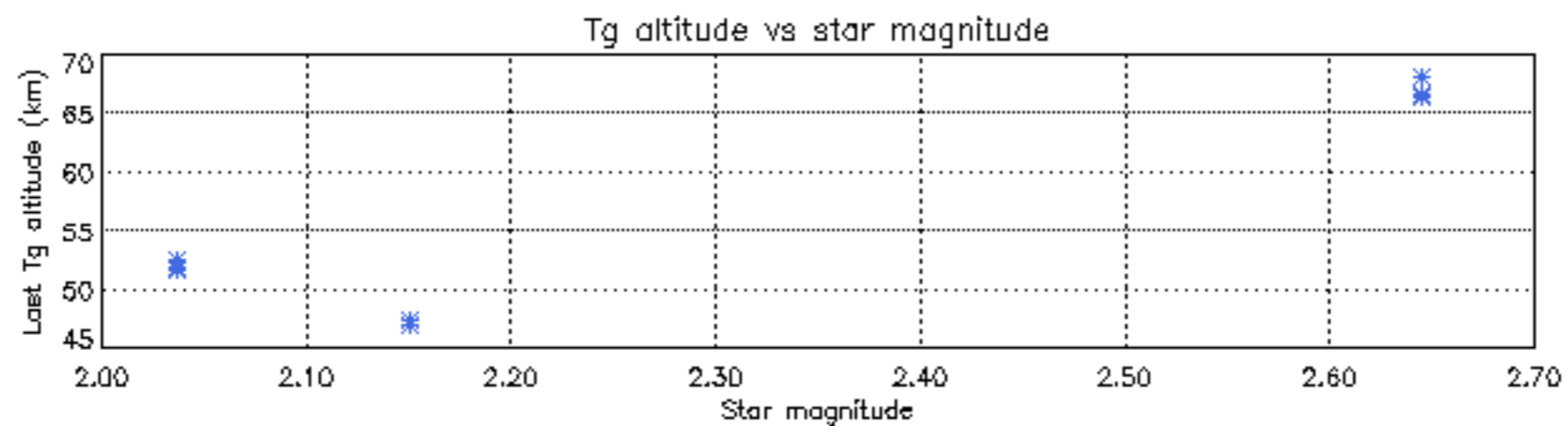
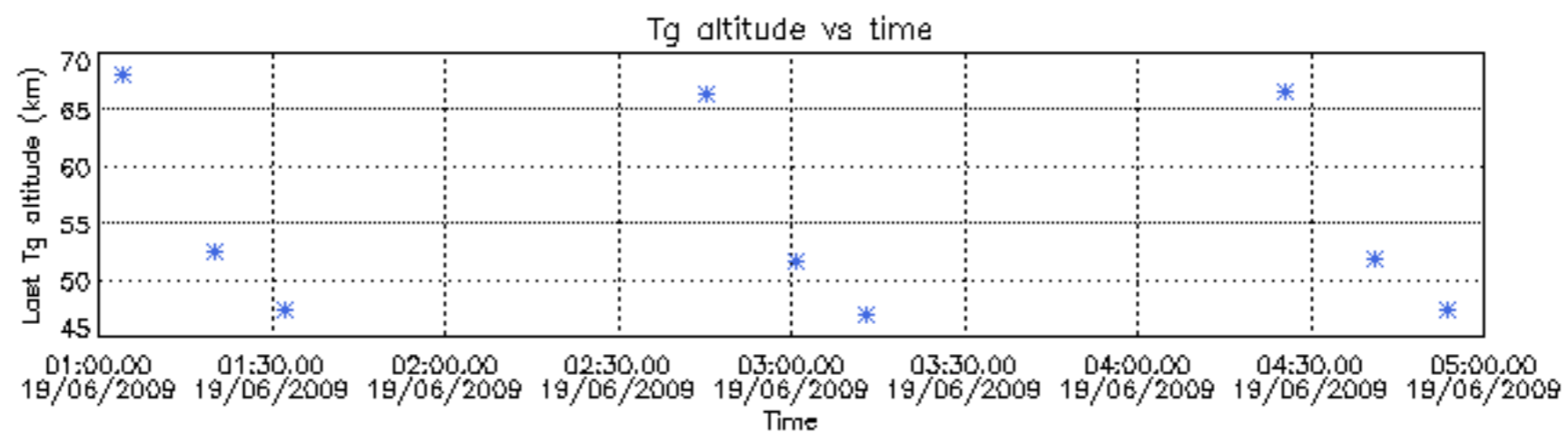
Percentage of star falling outside central band per profile



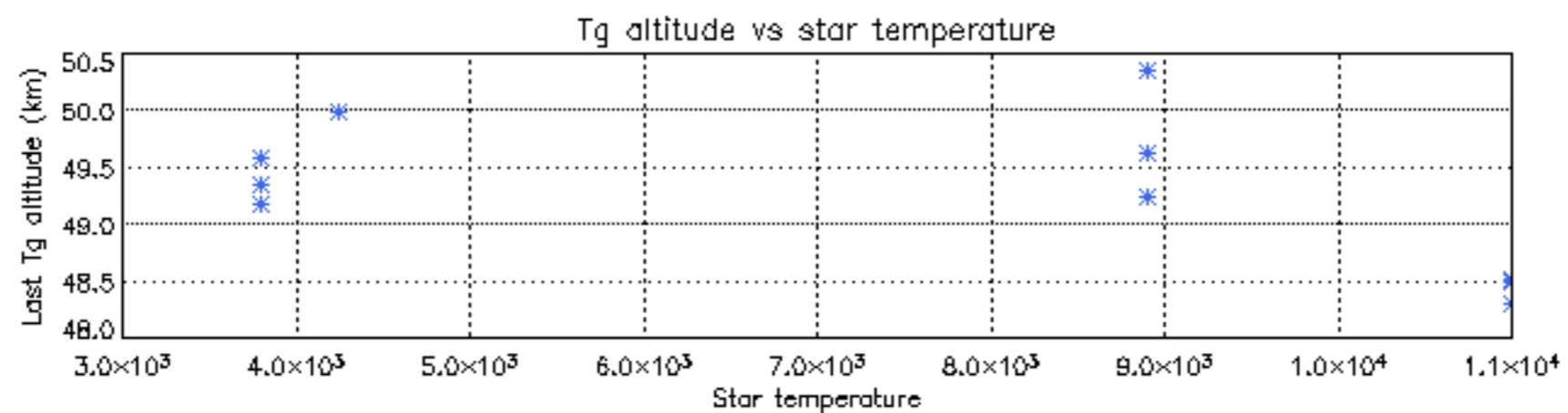
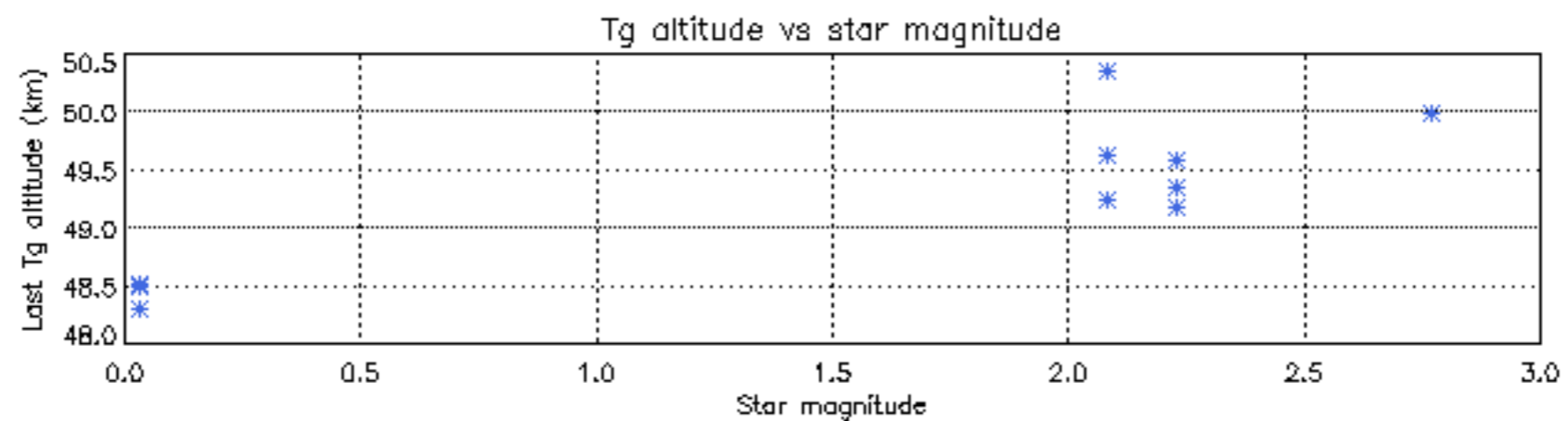
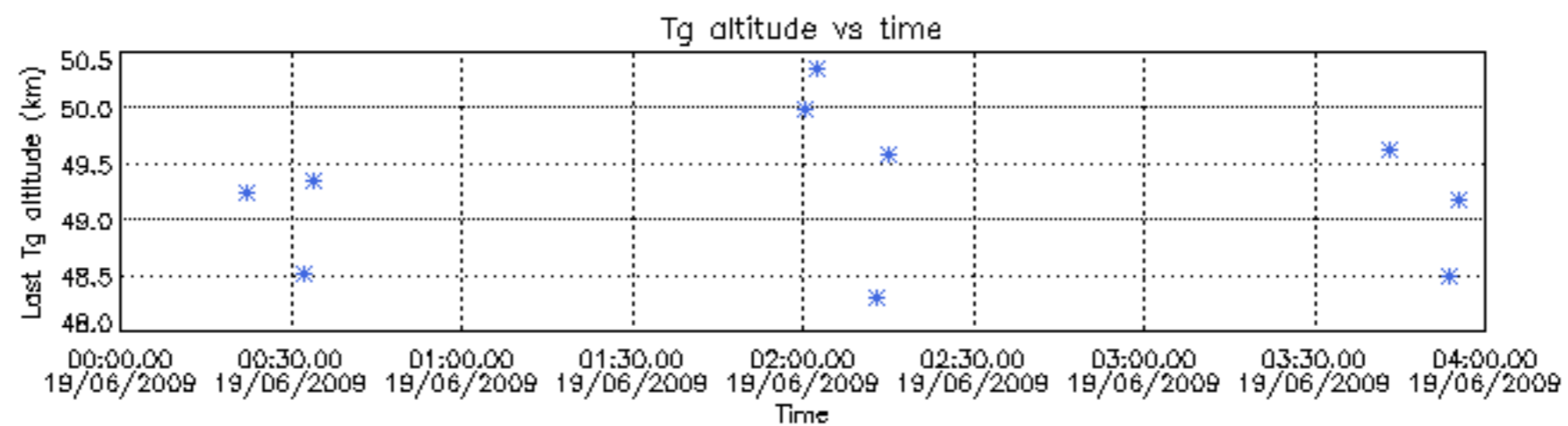
Percentage of saturation errors per profile

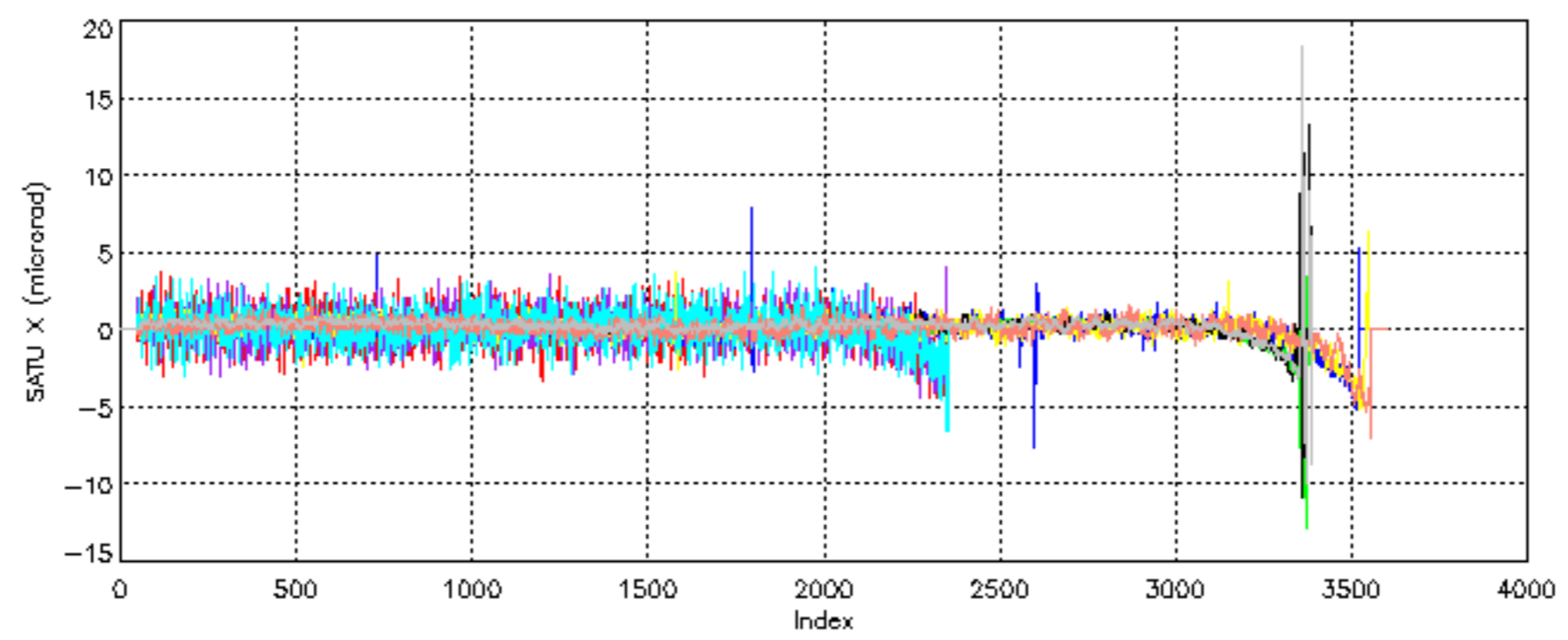


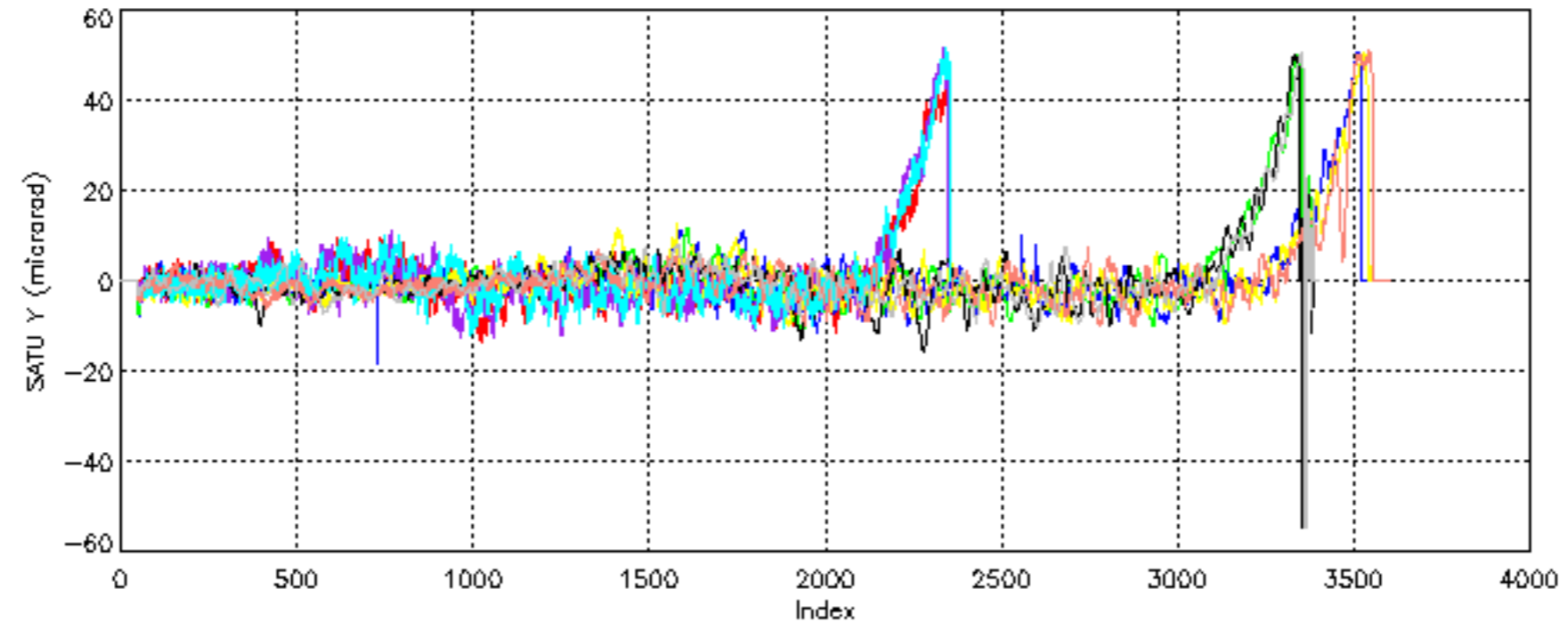
Tangent altitude at which the star is lost

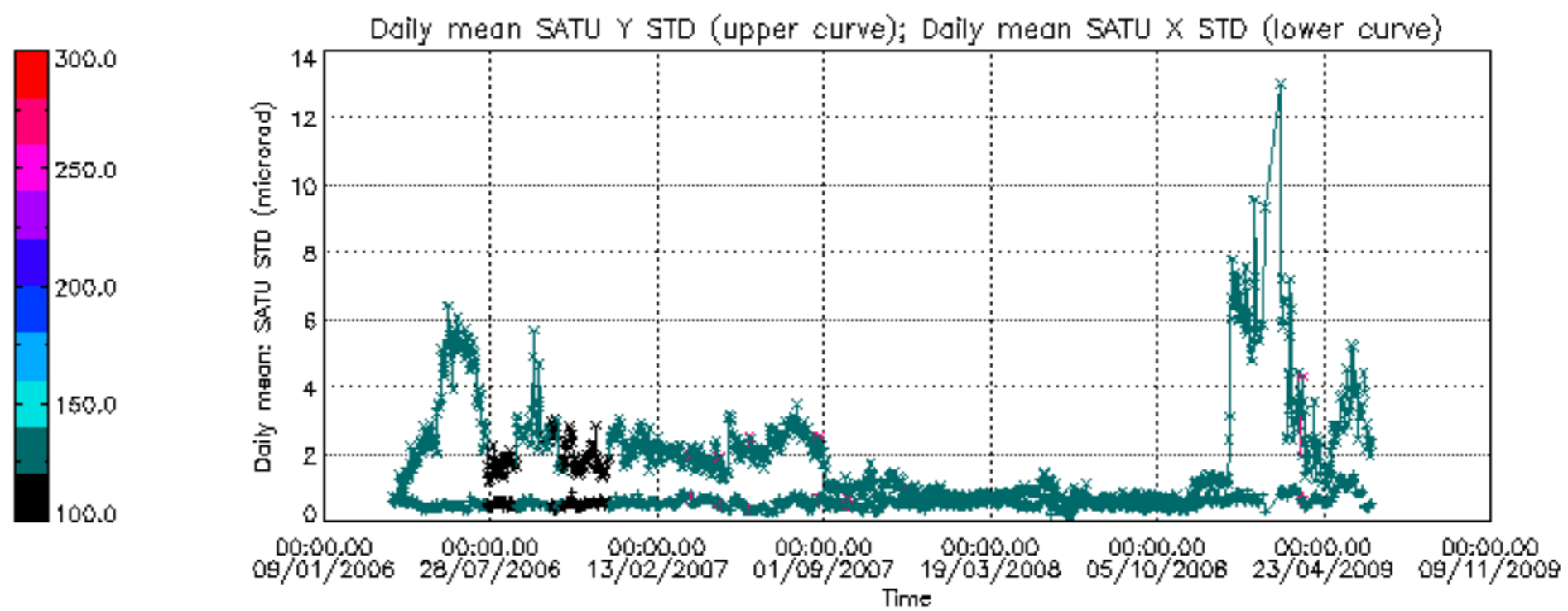


Tangent altitude at which the star is lost











/nas3/ENVIAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090601_004956_000050022079_00288_37917_7897.N1
1; -120.5; 01-JUN-2009 00:49:56; Dark ; 38.5; 18; 24Alp PsA ; 1.17; 9700;occ; 77; 0;37917
2; 190.7; 01-JUN-2009 00:55:07; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;37918
3; 1105.6; 01-JUN-2009 01:10:22; Dark ; 35.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 71; 0;37918
4; 1207.7; 01-JUN-2009 01:12:04; Dark ; 37.0; 116; 19Del Sgr ; 2.70; 4100;occ; 74; 0;37918
5; 1591.4; 01-JUN-2009 01:18:28; Bright; 32.0; 86; 35Eta Oph ; 2.43; 10200;occ; 64; 0;37918
6; 1702.8; 01-JUN-2009 01:20:19; Bright; 29.5; 98; 13Zet Oph ; 2.57; 30000;occ; 59; 0;37918
7; 2322.3; 01-JUN-2009 01:30:39; Bright; 32.0; 127; 27Bet Her ; 2.78; 4700;occ; 64; 0;37918
8; 2528.2; 01-JUN-2009 01:34:05; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;37918
9; 2976.6; 01-JUN-2009 01:41:33; Bright; 33.5; 130; 23Bet Dra ; 2.80; 5800;occ; 67; 0;37918
10; 3628.3; 01-JUN-2009 01:52:25; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;37918
11; 3933.5; 01-JUN-2009 01:57:30; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37918
12; 4556.4; 01-JUN-2009 02:07:53; Dark ; 27.5; 58; 21Alp And ; 2.07; 11000;occ; 55; 0;37918
13; 4853.3; 01-JUN-2009 02:12:50; Dark ; 28.5; 140; 88Gam Peg ; 2.83; 26000;occ; 57; 0;37918
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1; -753.3; 01-JUN-2009 02:19:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37918
2; -119.7; 01-JUN-2009 02:30:33; Dark ; 39.0; 18; 24Alp PsA ; 1.17; 9700;occ; 78; 0;37918
3; 191.5; 01-JUN-2009 02:35:44; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;37919
4; 1106.4; 01-JUN-2009 02:50:59; Dark ; 35.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 70; 0;37919
5; 1208.2; 01-JUN-2009 02:52:40; Dark ; 37.0; 116; 19Del Sgr ; 2.70; 4100;occ; 74; 0;37919
6; 1591.1; 01-JUN-2009 02:59:03; Bright; 32.0; 86; 35Eta Oph ; 2.43; 10200;occ; 64; 0;37919
7; 1702.6; 01-JUN-2009 03:00:55; Bright; 30.0; 98; 13Zet Oph ; 2.57; 30000;occ; 60; 0;37919
8; 2322.2; 01-JUN-2009 03:11:14; Bright; 32.0; 127; 27Bet Her ; 2.78; 4700;occ; 64; 0;37919
9; 2528.0; 01-JUN-2009 03:14:40; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;37919
10; 2976.0; 01-JUN-2009 03:22:08; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;37919
/nas3/ENVIAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090601_033300_000060662079_00290_37919_7899.N1
1; -2408.1; 01-JUN-2009 03:33:00; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;37919
2; -2102.5; 01-JUN-2009 03:38:06; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37919
3; -1479.4; 01-JUN-2009 03:48:29; Dark ; 27.5; 58; 21Alp And ; 2.07; 11000;occ; 55; 0;37919
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3; 2964.5; 02-JUN-2009 09:32:44; Bright; 32.5; 130; 23Bet Dra ; 2.80; 5800;occ; 65; 0;37937
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5; 3929.7; 02-JUN-2009 09:48:49; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37937
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8; 5940.4; 02-JUN-2009 10:22:20; Dark ; 39.0; 18; 24Alp PsA ; 1.17; 9700;occ; 78; 0;37937
9; 6245.1; 02-JUN-2009 10:27:24; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;37937
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3; 2963.7; 02-JUN-2009 11:13:19; Bright; 32.5; 130; 23Bet Dra ; 2.80; 5800;occ; 65; 0;37938
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6; 4560.6; 02-JUN-2009 11:39:56; Dark ; 27.5; 58; 21Alp And ; 2.07; 11000;occ; 55; 0;37938
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8; 5300.6; 02-JUN-2009 11:52:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37938
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3; 2963.4; 02-JUN-2009 12:53:54; Bright; 32.5; 130; 23Bet Dra ; 2.80; 5800;occ; 65; 0;37939
4; 3615.9; 02-JUN-2009 13:04:47; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37939
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6; 4560.8; 02-JUN-2009 13:20:32; Dark ; 27.5; 58; 21Alp And ; 2.07; 11000;occ; 55; 0;37939
7; 4864.3; 02-JUN-2009 13:25:35; Dark ; 29.5; 140; 88Gam Peg ; 2.83; 26000;occ; 59; 0;37939
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3; 2517.5; 02-JUN-2009 16:07:40; Bright; 31.5; 133; 40Zet Her ; 2.81; 6000;occ; 63; 0;37941
4; 2962.0; 02-JUN-2009 16:15:05; Bright; 32.5; 130; 23Bet Dra ; 2.80; 5800;occ; 65; 0;37941
5; 3614.8; 02-JUN-2009 16:25:58; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;37941
6; 3929.0; 02-JUN-2009 16:31:12; Bright; 24.5; 74; 11Bet Cas ; 2.27; 6600;occ; 49; 0;37941
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8; 4865.3; 02-JUN-2009 16:46:48; Dark ; 29.5; 140; 88Gam Peg ; 2.83; 26000;occ; 59; 0;37941
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6; 3614.0; 02-JUN-2009 18:06:33; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;37942
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6; 2960.9; 02-JUN-2009 19:36:16; Bright; 32.0; 130; 23Bet Dra ; 2.80; 5800;occ; 64; 0;37943
7; 3613.5; 02-JUN-2009 19:47:08; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;37943
8; 3928.5; 02-JUN-2009 19:52:23; Bright; 24.5; 74; 11Bet Cas ; 2.27; 6600;occ; 49; 0;37943
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3; 2495.6; 06-JUN-2009 07:18:27; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;37993
4; 2931.4; 06-JUN-2009 07:25:43; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37993
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14; 7279.9; 06-JUN-2009 08:38:11; Dark ; 33.5; 116; 19Del Sgr ; 2.70; 4100;occ; 67; 0;37993
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5; 1270.4; 07-JUN-2009 01:24:37; Dark ; 39.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 78; 0;38004
6; 1334.3; 07-JUN-2009 01:25:41; Dark ; 35.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 70; 0;38004
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8; 2049.3; 07-JUN-2009 01:37:36; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;38004
9; 2212.0; 07-JUN-2009 01:40:19; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;38004
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12; 3575.3; 07-JUN-2009 02:03:02; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38004
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 3; 285.0; 07-JUN-2009 22:55:59; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38017
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 3; 2490.1; 07-JUN-2009 10:07:56; Bright; 29.5; 133; 40Zet Her ; 2.81; 6000;occ; 59; 0;38009
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 5; 3572.2; 07-JUN-2009 10:25:59; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38009
 6; 3913.4; 07-JUN-2009 10:31:40; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38009
 7; 4402.6; 07-JUN-2009 10:39:49; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38009
 8; 4576.2; 07-JUN-2009 10:42:43; Dark ; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;38009
 9; 4906.5; 07-JUN-2009 10:48:13; Dark ; 32.5; 140; 88Gam Peg ; 2.83; 26000;occ; 65; 0;38009
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12; 6314.3; 07-JUN-2009 11:11:41; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38009
13; 7190.4; 07-JUN-2009 11:26:17; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;38009
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9; 6234.5; 10-JUN-2009 09:35:30; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38051
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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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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
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5; 3901.1; 10-JUN-2009 15:39:00; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38055
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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
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7; 3900.7; 10-JUN-2009 19:00:12; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38057
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11; 2897.1; 11-JUN-2009 01:25:52; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38061
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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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4; 207.6; 11-JUN-2009 02:21:38; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 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
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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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5; 341.4; 11-JUN-2009 22:31:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38074
6; 436.4; 11-JUN-2009 22:32:38; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38074
7; 1183.0; 11-JUN-2009 22:45:05; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38074
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6; 437.5; 12-JUN-2009 00:13:15; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38075
7; 1183.4; 12-JUN-2009 00:25:41; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38075
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5; 3897.4; 11-JUN-2009 13:26:44; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38068
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5; 3897.2; 11-JUN-2009 15:07:19; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38069
6; 4407.4; 11-JUN-2009 15:15:49; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38069
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13; 7217.5; 11-JUN-2009 16:02:40; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38069
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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
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6; 589.1; 19-JUN-2009 23:24:03; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38189
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3; 2758.0; 19-JUN-2009 08:54:48; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;38180
4; 2873.6; 19-JUN-2009 08:56:44; Bright; 29.5; 69; 33Gam Dra ; 2.23; 3800;occ; 59; 0;38180
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4; 2873.1; 19-JUN-2009 10:37:19; Bright; 29.5; 69; 33Gam Dra ; 2.23; 3800;occ; 59; 0;38181
5; 3457.5; 19-JUN-2009 10:47:04; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38181
6; 3859.6; 19-JUN-2009 10:53:46; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38181
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5; 2143.4; 19-JUN-2009 18:48:09; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38186
6; 2753.3; 19-JUN-2009 18:58:19; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;38186
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16; 6637.8; 20-JUN-2009 16:10:15; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38198
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3; 1449.7; 20-JUN-2009 16:24:23; Bright; 34.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 69; 0;38199
4; 1993.9; 20-JUN-2009 16:33:27; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38199
5; 2140.5; 20-JUN-2009 16:35:53; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38199
6; 2743.0; 20-JUN-2009 16:45:56; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38199
7; 2843.5; 20-JUN-2009 16:47:36; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38199
8; 3444.9; 20-JUN-2009 16:57:38; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38199
9; 3852.6; 20-JUN-2009 17:04:26; Bright; 27.5; 74; 11Bet Cas ; 2.27; 6600;occ; 55; 0;38199
10; 3941.8; 20-JUN-2009 17:05:55; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38199
11; 4415.3; 20-JUN-2009 17:13:48; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38199

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15; 5994.4; 20-JUN-2009 17:40:07; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38199
16; 6378.3; 20-JUN-2009 17:46:31; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38199
17; 6501.4; 20-JUN-2009 17:48:34; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38199
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 4; 1993.9; 20-JUN-2009 18:14:03; Bright; 29.0; 126; 60Bet Oph ; 2.77; 4250;occ; 58; 0;38200
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 6; 2742.1; 20-JUN-2009 18:26:31; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38200
 7; 2843.0; 20-JUN-2009 18:28:12; Bright; 28.5; 130; 23Bet Dra ; 2.80; 5800;occ; 57; 0;38200
 8; 3444.4; 20-JUN-2009 18:38:13; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38200
 9; 3852.4; 20-JUN-2009 18:45:01; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38200
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11; 4271.0; 20-JUN-2009 18:52:00; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38200
12; 4415.4; 20-JUN-2009 18:54:24; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38200
13; 4637.5; 20-JUN-2009 18:58:06; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38200
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16; 5995.1; 20-JUN-2009 19:20:44; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38200
17; 6379.3; 20-JUN-2009 19:27:08; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38200
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 4; 346.5; 21-JUN-2009 00:28:59; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38204
 5; 469.2; 21-JUN-2009 00:31:02; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38204
 6; 608.2; 21-JUN-2009 00:33:21; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38204
 7; 1231.8; 21-JUN-2009 00:43:44; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38204
 8; 1318.5; 21-JUN-2009 00:45:11; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38204
 9; 1450.7; 21-JUN-2009 00:47:23; Bright; 34.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 69; 0;38204
10; 1992.9; 21-JUN-2009 00:56:26; Bright; 29.0; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38204
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12; 2739.2; 21-JUN-2009 01:08:52; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38204
13; 2841.8; 21-JUN-2009 01:10:34; Bright; 28.5; 130; 23Bet Dra ; 2.80; 5800;occ; 57; 0;38204
14; 3441.4; 21-JUN-2009 01:20:34; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38204
15; 3850.3; 21-JUN-2009 01:27:23; Bright; 27.5; 74; 11Bet Cas ; 2.27; 6600;occ; 55; 0;38204
16; 3940.2; 21-JUN-2009 01:28:53; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38204
17; 4271.1; 21-JUN-2009 01:34:24; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38204
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 4; 347.2; 21-JUN-2009 02:09:36; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38205
 5; 470.3; 21-JUN-2009 02:11:39; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38205
 6; 609.4; 21-JUN-2009 02:13:58; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38205
 7; 1233.7; 21-JUN-2009 02:24:22; Dark ; 26.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 53; 0;38205
 8; 1318.9; 21-JUN-2009 02:25:47; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38205
 9; 1450.8; 21-JUN-2009 02:27:59; Bright; 34.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 69; 0;38205
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13; 2841.6; 21-JUN-2009 02:51:10; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38205
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 3; -1764.9; 21-JUN-2009 03:14:59; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38205
 4; -1620.5; 21-JUN-2009 03:17:24; Dark ; 27.5; 53; 43Bet And ; 2.05; 3300;occ; 55; 0;38205
 5; -1397.2; 21-JUN-2009 03:21:07; Dark ; 24.0; 50; 13Alp Ari ; 2.01; 4250;occ; 48; 0;38205

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7; -385.6; 21-JUN-2009 03:37:59; Dark ; 37.5; 52; 16Bet Cet ; 2.04; 4500;occ; 75; 0;38205
8; -36.1; 21-JUN-2009 03:43:48; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38205
9; 348.2; 21-JUN-2009 03:50:13; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38206
10; 471.0; 21-JUN-2009 03:52:15; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38206
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13; 1350.5; 21-JUN-2009 04:06:55; Dark ; 31.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 63; 0;38206
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16; 2139.1; 21-JUN-2009 04:20:04; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38206
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3; -1764.7; 21-JUN-2009 06:36:12; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38207
4; -1620.4; 21-JUN-2009 06:38:36; Dark ; 27.5; 53; 43Bet And ; 2.05; 3300;occ; 55; 0;38207
5; -1396.4; 21-JUN-2009 06:42:20; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38207
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8; -34.4; 21-JUN-2009 07:05:02; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38207
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13; 1351.1; 21-JUN-2009 07:28:08; Dark ; 31.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 62; 0;38208
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3; 2736.5; 21-JUN-2009 07:51:13; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;38208
4; 2840.8; 21-JUN-2009 07:52:57; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38208
5; 3438.7; 21-JUN-2009 08:02:55; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38208
6; 3848.9; 21-JUN-2009 08:09:45; Bright; 27.5; 74; 11Bet Cas ; 2.27; 6600;occ; 55; 0;38208
7; 3938.9; 21-JUN-2009 08:11:15; Bright; 26.5; 68; 18Alp Cas ; 2.22; 4500;occ; 53; 0;38208
8; 4271.0; 21-JUN-2009 08:16:47; Bright; 23.0; 73; 57Gam1And ; 2.26; 13100;occ; 46; 0;38208
9; 4415.6; 21-JUN-2009 08:19:12; Dark ; 27.5; 53; 43Bet And ; 2.05; 3300;occ; 55; 0;38208
10; 4639.6; 21-JUN-2009 08:22:56; Dark ; 24.0; 50; 13Alp Ari ; 2.01; 4250;occ; 48; 0;38208
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3; 673.6; 21-JUN-2009 10:38:02; Dark ; 28.5; 45; Alp Pav ; 1.94; 26000;occ; 57; 0;38210
4; 1234.0; 21-JUN-2009 10:47:22; Dark ; 27.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 55; 0;38210
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3; 2449.0; 21-JUN-2009 11:07:37; Bright; 26.5; 133; 40Zet Her ; 2.81; 6000;occ; 53; 0;38210
4; 2840.5; 21-JUN-2009 11:14:09; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38210
5; 3877.2; 21-JUN-2009 11:31:25; Bright; 25.0; 76; 27Gam Cas ; 2.30; 30000;occ; 50; 0;38210
6; 4271.0; 21-JUN-2009 11:37:59; Bright; 23.0; 73; 57Gam1And ; 2.26; 13100;occ; 46; 0;38210
7; 4413.5; 21-JUN-2009 11:40:22; Dark ; 22.5; 173; 4Bet Tri ; 3.00; 8900;occ; 45; 0;38210
8; 4640.3; 21-JUN-2009 11:44:08; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38210
9; 5400.7; 21-JUN-2009 11:56:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38210
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11; 6389.4; 21-JUN-2009 12:13:18; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38210
12; 6512.1; 21-JUN-2009 12:15:20; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38210
13; 7269.9; 21-JUN-2009 12:27:58; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38210
14; 7356.2; 21-JUN-2009 12:29:24; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38210

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2; 2137.8; 21-JUN-2009 12:43:02; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38211
3; 2840.0; 21-JUN-2009 12:54:44; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38211

4; 3876.8; 21-JUN-2009 13:12:01; Bright; 25.0; 76; 27Gam Cas ; 2.30; 30000;occ; 50; 0;38211
5; 4271.2; 21-JUN-2009 13:18:35; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38211
6; 4413.6; 21-JUN-2009 13:20:58; Dark ; 22.5; 173; 4Bet Tri ; 3.00; 8900;occ; 45; 0;38211
7; 4640.9; 21-JUN-2009 13:24:45; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38211
8; 5401.3; 21-JUN-2009 13:37:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38211
9; 6005.4; 21-JUN-2009 13:47:29; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38211
10; 6390.1; 21-JUN-2009 13:53:54; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38211
11; 6512.7; 21-JUN-2009 13:55:57; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38211
12; 6710.8; 21-JUN-2009 13:59:15; Dark ; 28.0; 45; Alp Pav ; 1.94; 26000;occ; 56; 0;38211
13; 7270.3; 21-JUN-2009 14:08:34; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38211
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6; 2838.7; 21-JUN-2009 17:56:31; Bright; 28.5; 130; 23Bet Dra ; 2.80; 5800;occ; 57; 0;38214
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8; 4423.2; 29-JUN-2009 10:48:47; Dark ; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;38324
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4; 3357.7; 29-JUN-2009 13:52:13; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38326
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7; 2239.9; 30-JUN-2009 01:17:47; Bright; 48.0; 168; 17Zet Aql ; 2.99; 11000;occ; 96; 0;38333
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 2; 2233.1; 30-JUN-2009 21:24:51; Bright; 49.5; 168; 17Zet Aql ; 2.99; 11000;occ; 99; 0;38345
 3; 2652.6; 30-JUN-2009 21:31:51; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;38345
 4; 2924.2; 30-JUN-2009 21:36:23; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38345
 5; 3345.0; 30-JUN-2009 21:43:23; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38345
 6; 3786.0; 30-JUN-2009 21:50:44; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38345
 7; 3887.5; 30-JUN-2009 21:52:26; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;38345
 8; 4266.9; 30-JUN-2009 21:58:45; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38345
 9; 4424.7; 30-JUN-2009 22:01:23; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38345
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 3; 486.1; 30-JUN-2009 22:36:20; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;38346
 4; 602.7; 30-JUN-2009 22:38:17; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38346
 5; 775.5; 30-JUN-2009 22:41:10; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;38346
 6; 1480.8; 30-JUN-2009 22:52:55; Bright; 43.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 86; 0;38346
 7; 2232.6; 30-JUN-2009 23:05:27; Bright; 48.5; 168; 17Zet Aql ; 2.99; 11000;occ; 97; 0;38346

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12; 3887.2; 30-JUN-2009 23:33:01; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;38346
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3; 487.2; 01-JUL-2009 00:16:57; Dark ; 63.5; 63; Bet Gru ; 2.15; 2800;occ; 127; 0;38347
4; 603.1; 01-JUL-2009 00:18:53; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;38347
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6; 2231.9; 01-JUL-2009 00:46:02; Bright; 72.0; 168; 17Zet Aql ; 2.99; 11000;occ; 144; 0;38347
7; 2651.7; 01-JUL-2009 00:53:02; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;38347
8; 2922.6; 01-JUL-2009 00:57:33; Bright; 50.0; 144; 18Del Cyg ; 2.86; 11000;occ; 100; 0;38347
9; 3343.6; 01-JUL-2009 01:04:34; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38347
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11; 3886.9; 01-JUL-2009 01:13:37; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;38347
12; 4266.8; 01-JUL-2009 01:19:57; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38347
13; 4424.9; 01-JUL-2009 01:22:35; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38347
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3; -1768.6; 30-JUN-2009 06:53:22; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38336
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6; -542.0; 30-JUN-2009 07:13:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38336
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8; 477.3; 30-JUN-2009 07:30:48; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;38337
9; 594.7; 30-JUN-2009 07:32:46; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;38337
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