

GOMOS Daily Report 20-SEP-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	23SEP2009 04:40:55
Data source version	GOMOS/5.00
Start time of products	20SEP2009 00:00:05
Stop time of products	20SEP2009 23:42:46
Store outputs in DB	Yes
Nb of level 1b prods	74
Nb of prods with errors	0

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

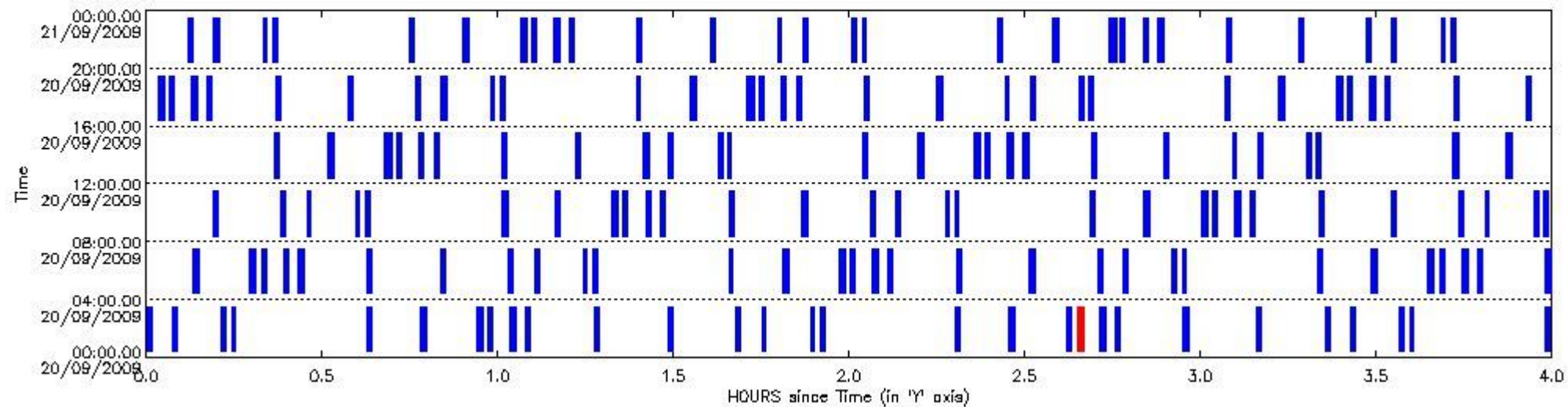
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

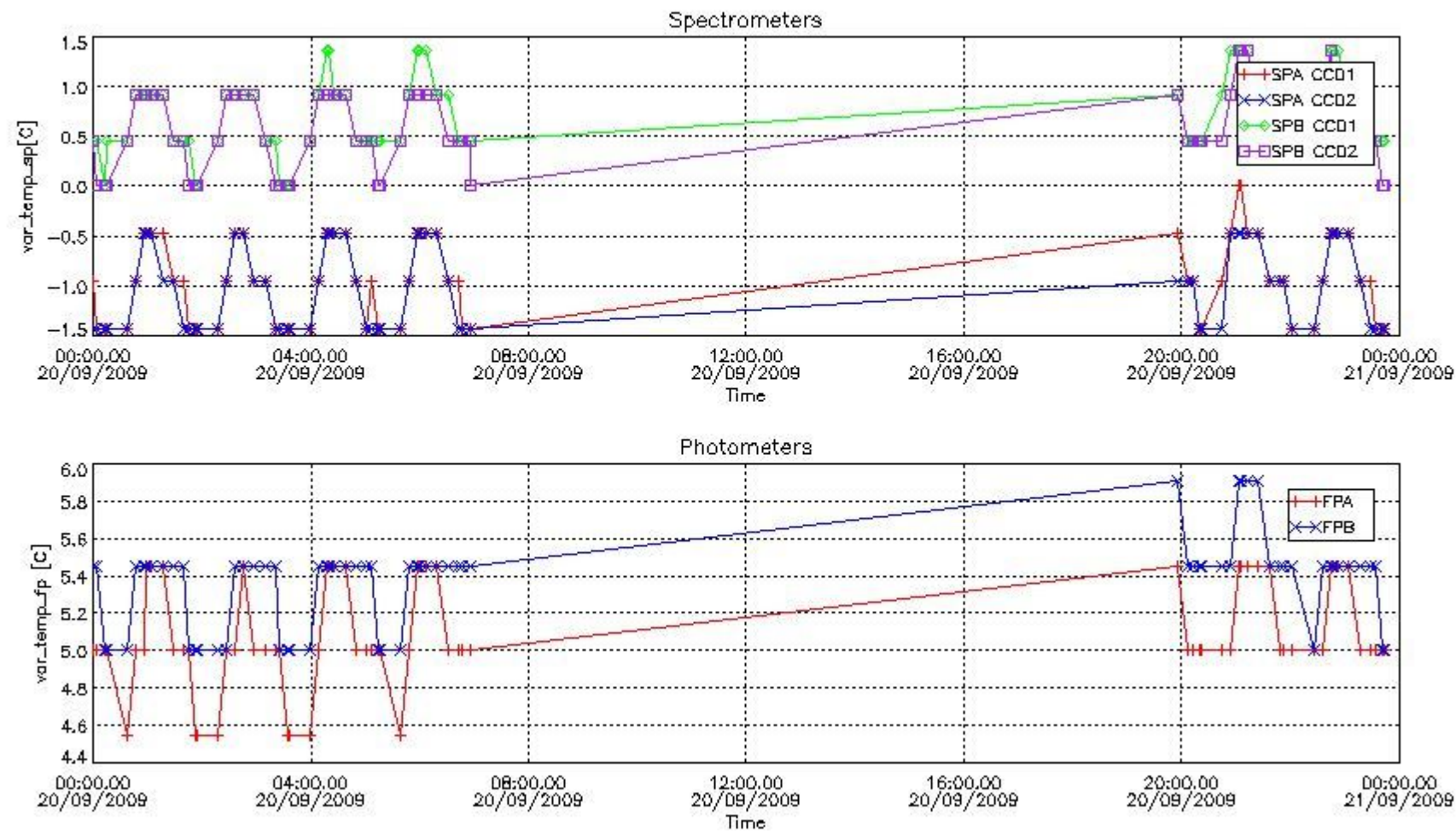
UTC start time	Star name	Star ID	Orbit
20-SEP-2009 02:39:02	21EpsCMa	23	39507

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_1PNPDE20090920_000005_000000452082_00374_39506_1444.N1	20-SEP-2009 00:00:05	Bright	45.000	140	88Gam Peg	2.8340	26000.	90	39506	No
2	GOM_TRA_1PNPDE20090920_000428_000000462082_00374_39506_1445.N1	20-SEP-2009 00:04:28	Bright	45.500	58	21Alp And	2.0730	11000.	91	39506	No
3	GOM_TRA_1PNPDE20090920_001250_000000412082_00374_39506_1446.N1	20-SEP-2009 00:12:50	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	39506	No
4	GOM_TRA_1PNPDE20090920_001431_000000422082_00374_39506_1447.N1	20-SEP-2009 00:14:31	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	39506	No
5	GOM_TRA_1PNPDE20090920_003737_000000472082_00374_39506_1448.N1	20-SEP-2009 00:37:37	Bright	47.000	24	66Alp Gem	1.5800	10200.	94	39506	No
6	GOM_TRA_1PNPDE20090920_004643_000000622082_00374_39506_1449.N1	20-SEP-2009 00:46:43	Dark	61.500	8	10Alp CMi	0.40000	6500.0	123	39506	No
7	GOM_TRA_1PNPDE20090920_005624_000000702082_00374_39506_1600.N1	20-SEP-2009 00:56:24	Dark	70.000	1	9Alp CMa	-1.4400	11000.	140	39506	No
8	GOM_TRA_1PNPDE20090920_005821_000000512082_00374_39506_1601.N1	20-SEP-2009 00:58:21	Dark	50.500	23	21Eps CMa	1.5020	26000.	101	39506	No
9	GOM_TRA_1PNPDE20090920_010443_000000542082_00375_39507_1602.N1	20-SEP-2009 01:04:43	Dark	54.000	108	Alp Col	2.6520	15200.	108	39507	No
10	GOM_TRA_1PNPDE20090920_011627_000000532082_00375_39507_1603.N1	20-SEP-2009 01:16:27	Straylight	52.500	157	The1Eri	2.9060	9300.0	105	39507	No

70	GOM_TRA_1PNPDE20090920_231647_000000542082_00388_39520_2771.N1	20-SEP-2009 23:16:47	Twilight_stray	54.000	52	16Bet Cet	2.0370	4500.0	108	39520	No
71	GOM_TRA_1PNPDE20090920_232821_000000442082_00388_39520_2772.N1	20-SEP-2009 23:28:21	Bright	43.500	140	88Gam Peg	2.8340	26000.	87	39520	No
72	GOM_TRA_1PNPDE20090920_233243_000000452082_00388_39520_2773.N1	20-SEP-2009 23:32:43	Bright	45.000	58	21Alp And	2.0730	11000.	90	39520	No
73	GOM_TRA_1PNPDE20090920_234107_000000402082_00388_39520_2774.N1	20-SEP-2009 23:41:07	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	39520	No
74	GOM_TRA_1PNPDE20090920_234246_000000432082_00388_39520_2775.N1	20-SEP-2009 23:42:46	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	39520	No

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



4. Overview of dark signal processing per product

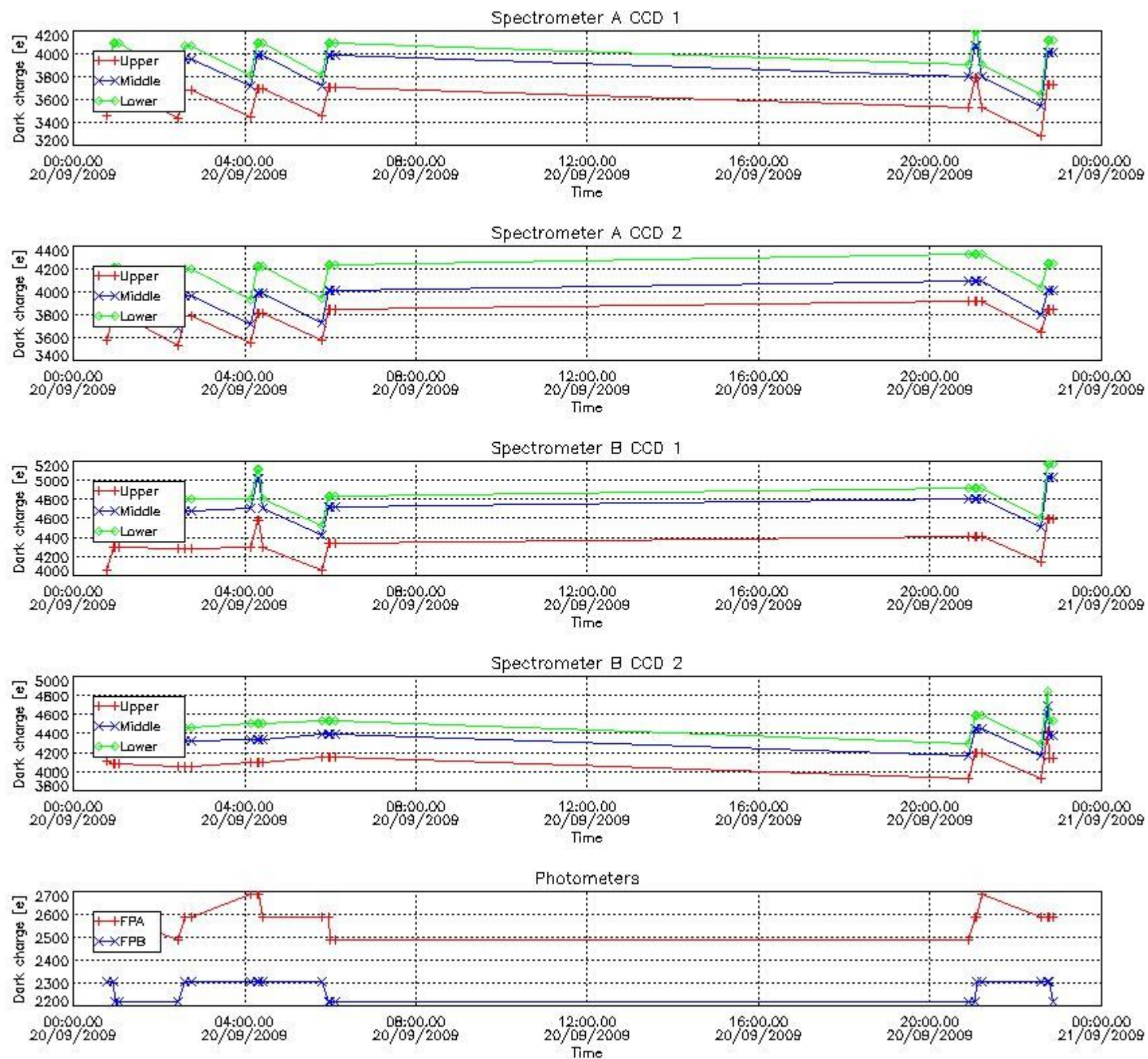
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20090920_195535_000000542082_00386_39518_2431.N1	DC map used
GOM_TRA_1PNPDE20090920_200710_000000452082_00386_39518_2432.N1	DC map used
GOM_TRA_1PNPDE20090920_201132_000000612082_00386_39518_2433.N1	DC map used
GOM_TRA_1PNPDE20090920_201956_000000422082_00386_39518_2434.N1	DC map used
GOM_TRA_1PNPDE20090920_202135_000000432082_00386_39518_2435.N1	DC map used

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



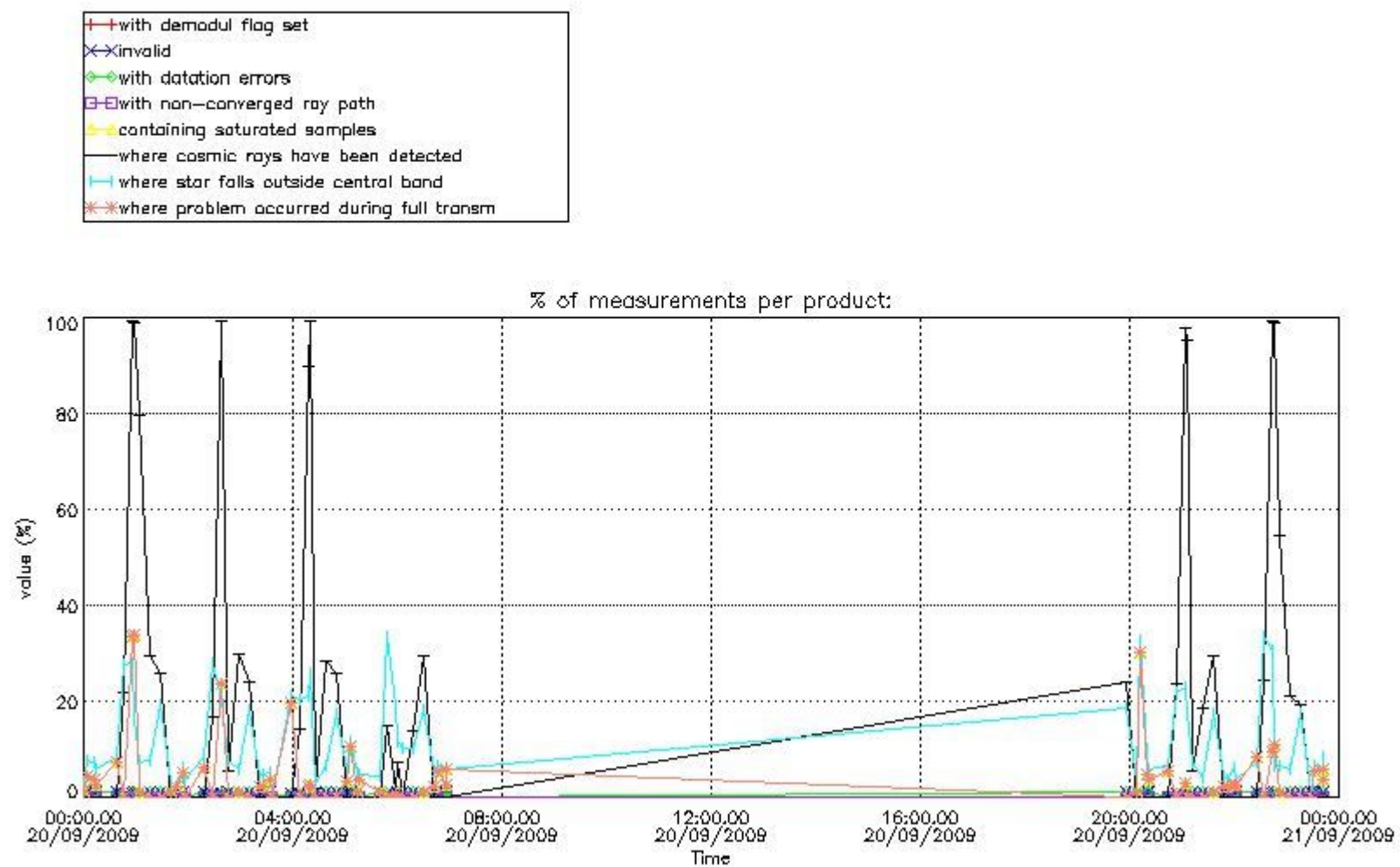
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

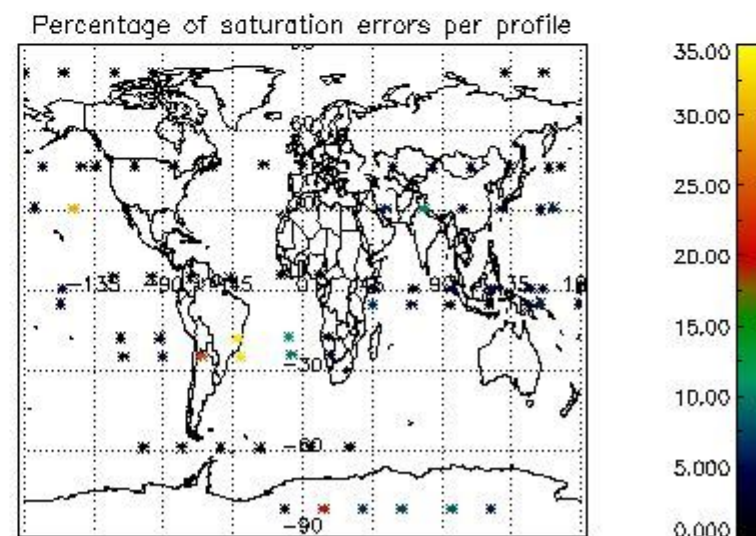
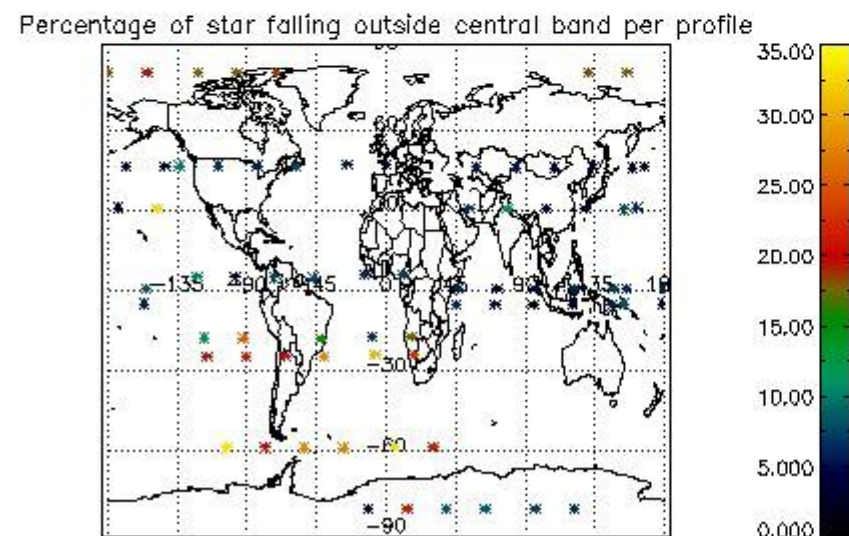
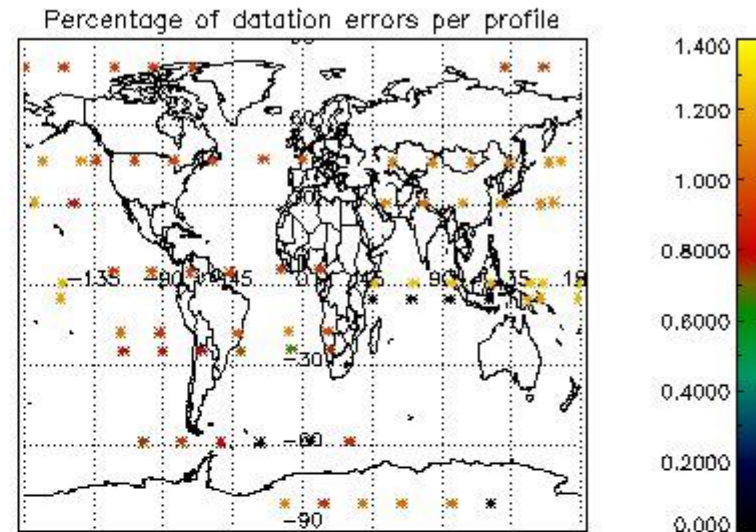
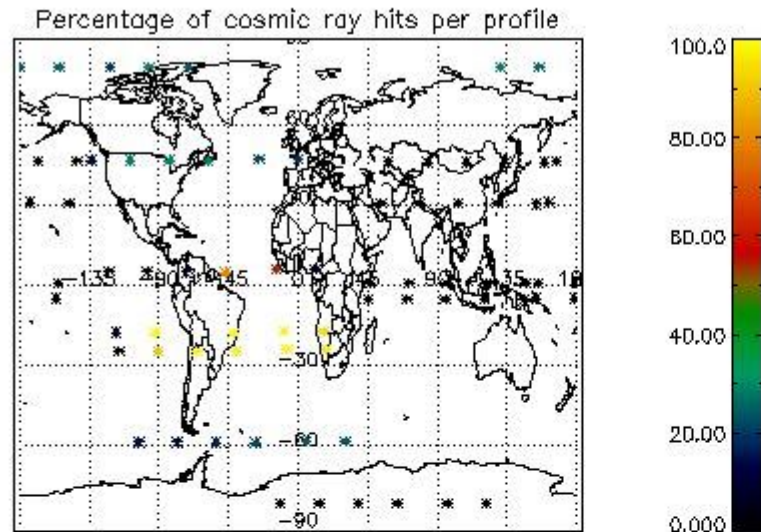
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	39.1892 %
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)



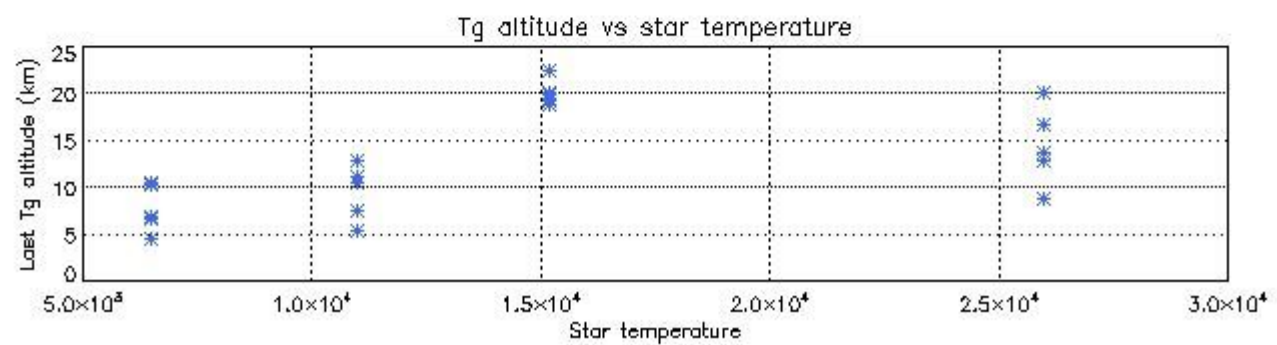
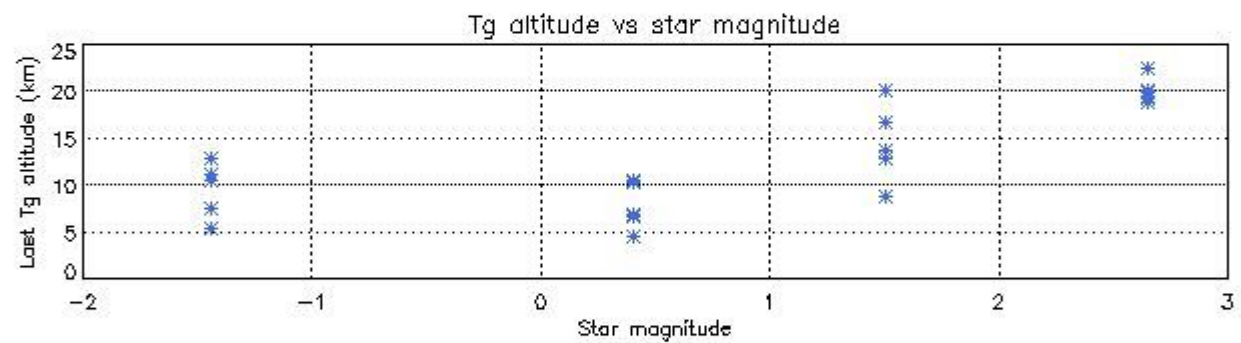
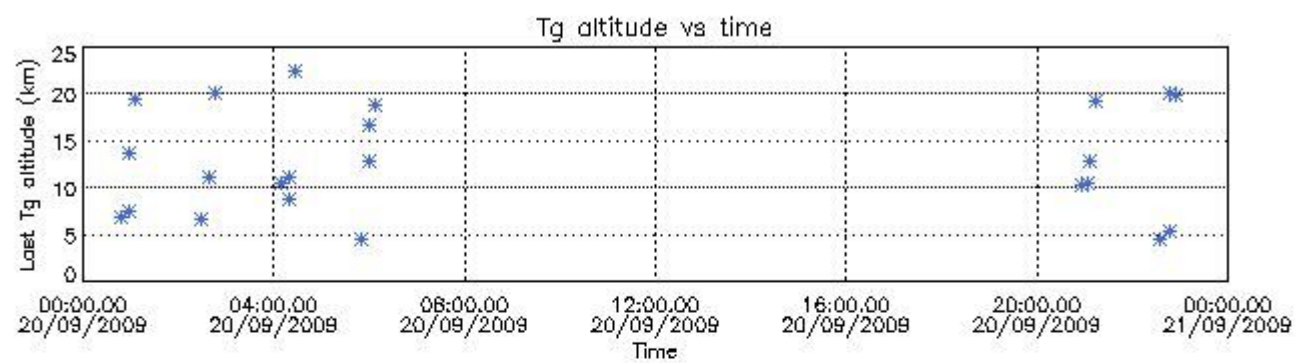
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.724	20.665	NaN
St. deviation:	5.7073	3.8047	NaN
Maximum:	22.372	28.873	NaN
Minimum:	4.4325	6.3515	NaN
Number of data:	23.000	38.000	NaN

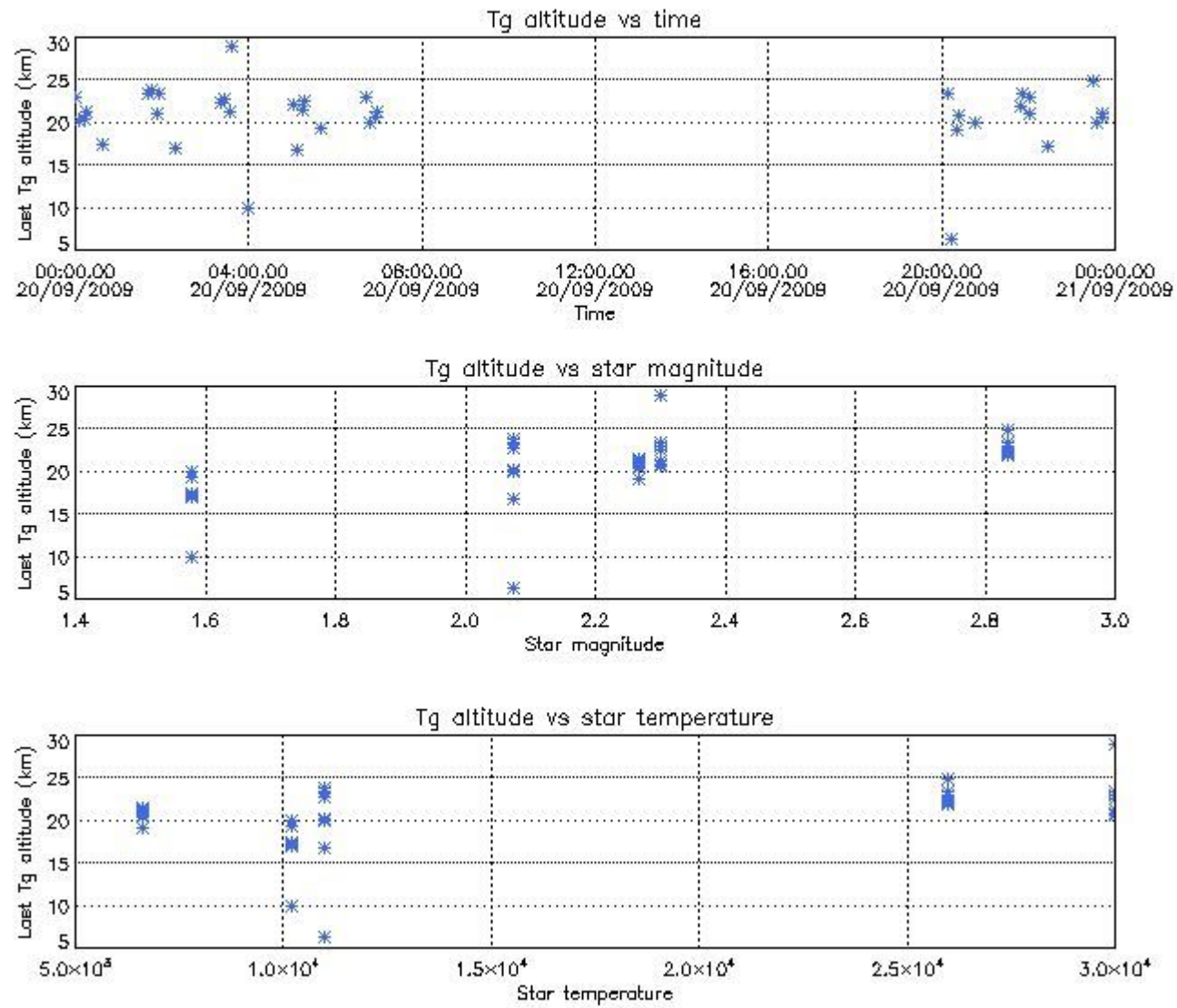
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

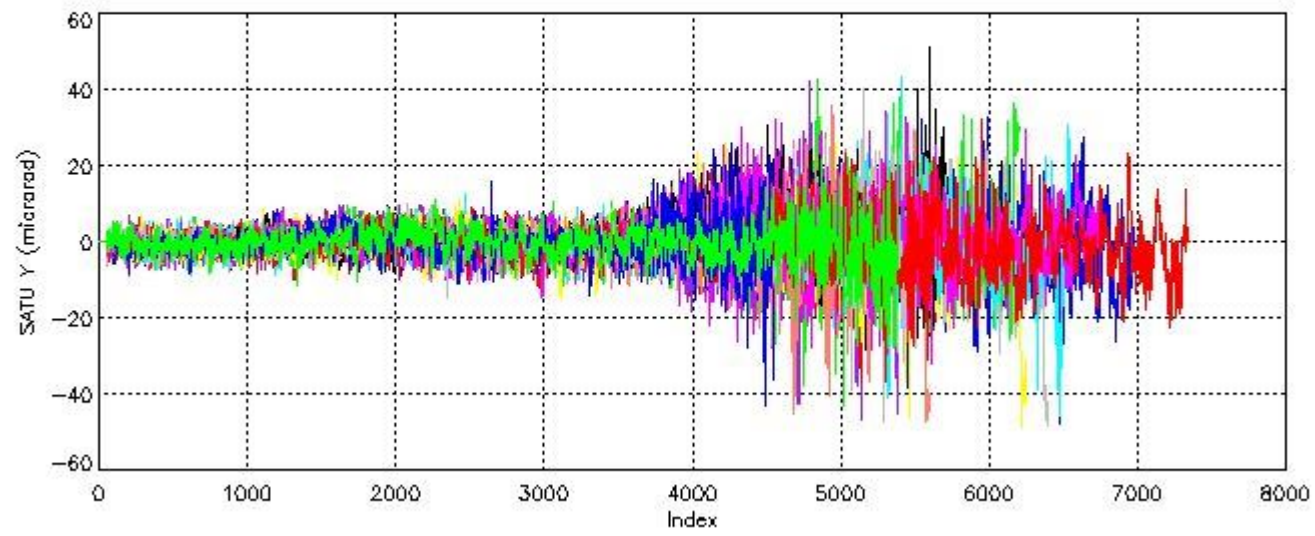
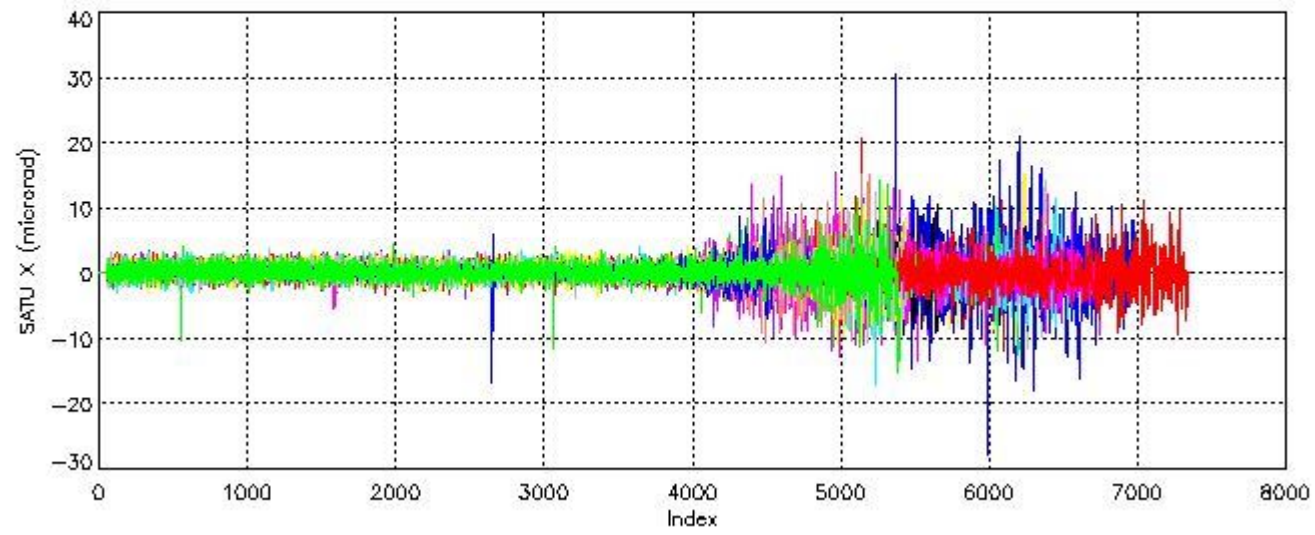


7. Star Acquisition and Tracking Unit (SATU)

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:	0.26730	-0.47126	0.28240	-0.52087
St. deviation:	0.47157	1.9208	0.94306	2.2778
Maximum:	4.2000	8.4000	7.0000	10.400
Minimum:	-10.500	-9.0000	-5.9000	-11.400

Number of data:	27600.	27600.	39500.	39500.
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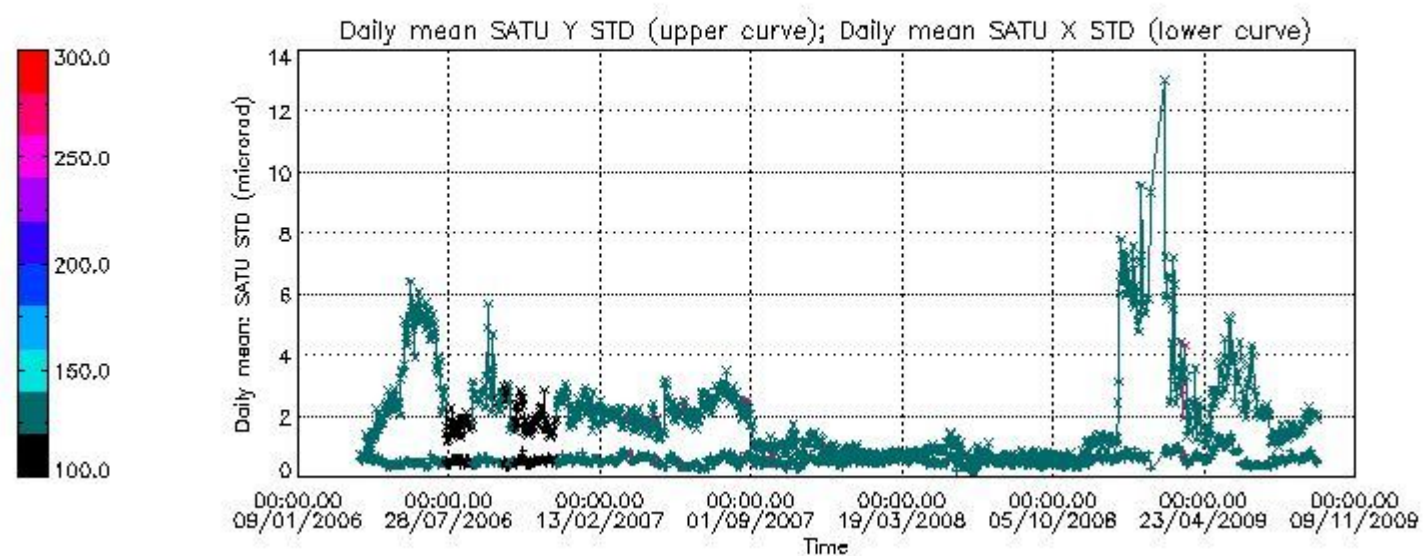
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

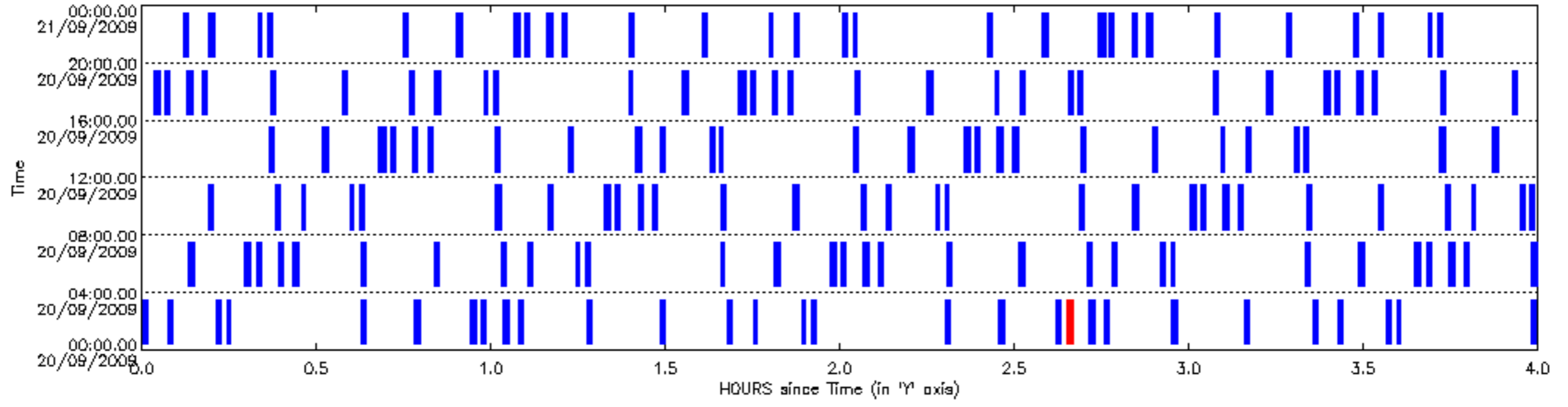
Lower curve: STD of SATU X axis

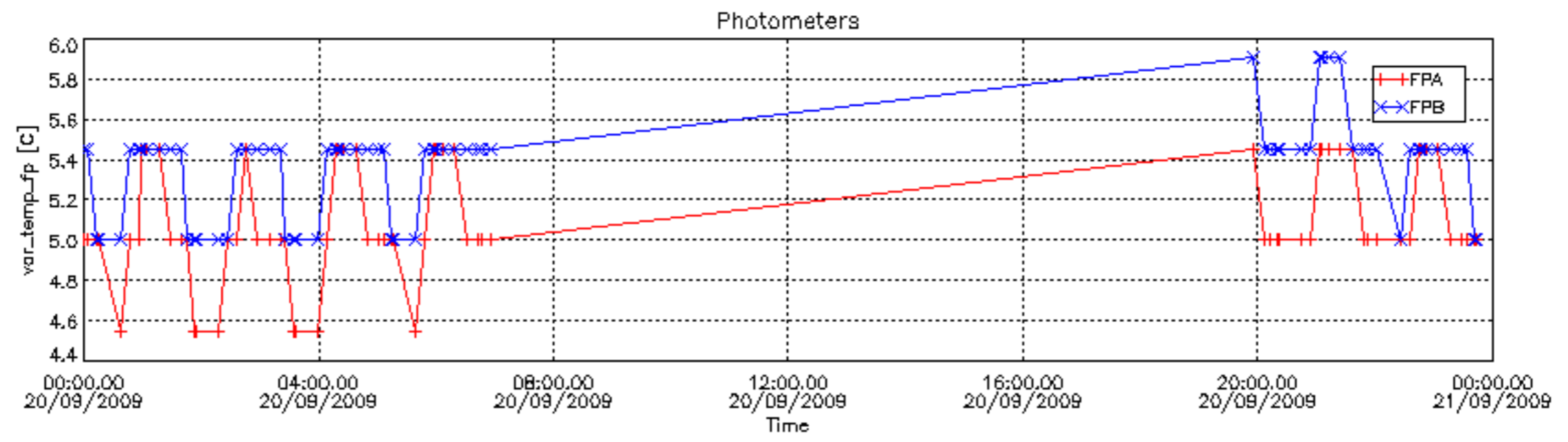
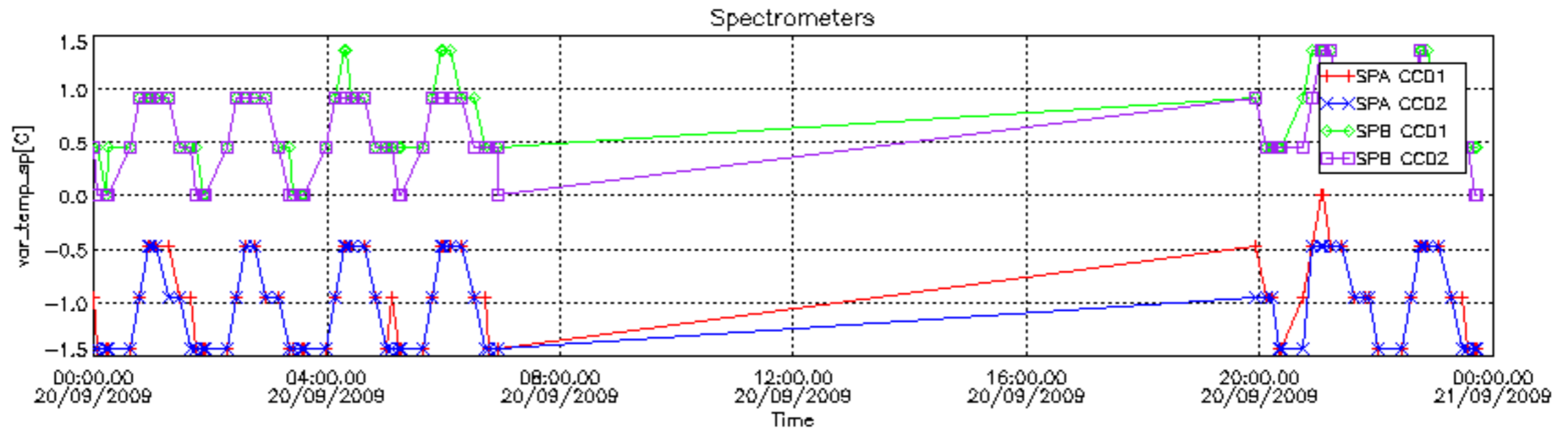


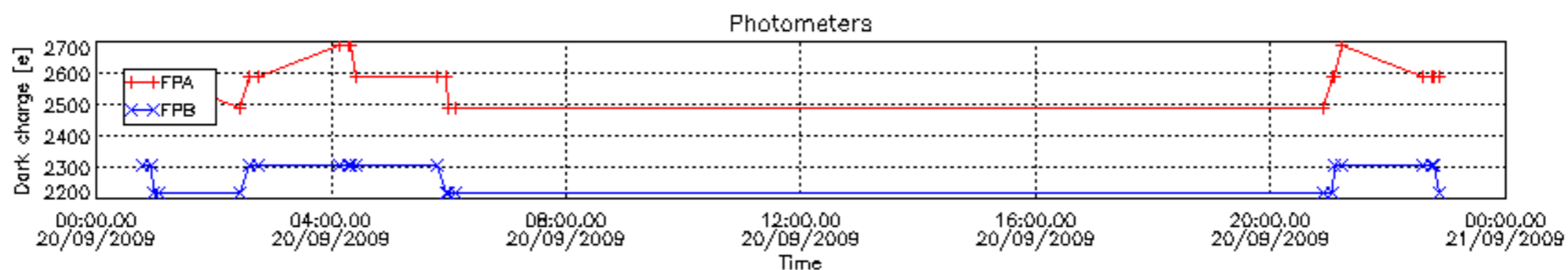
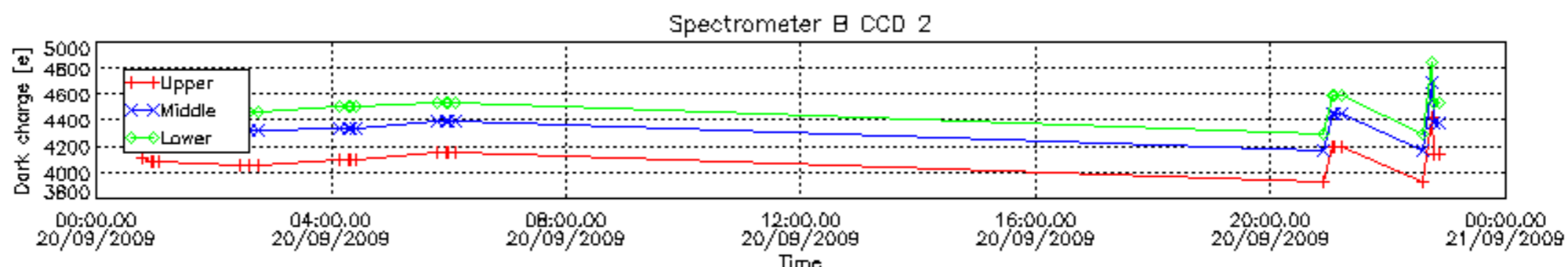
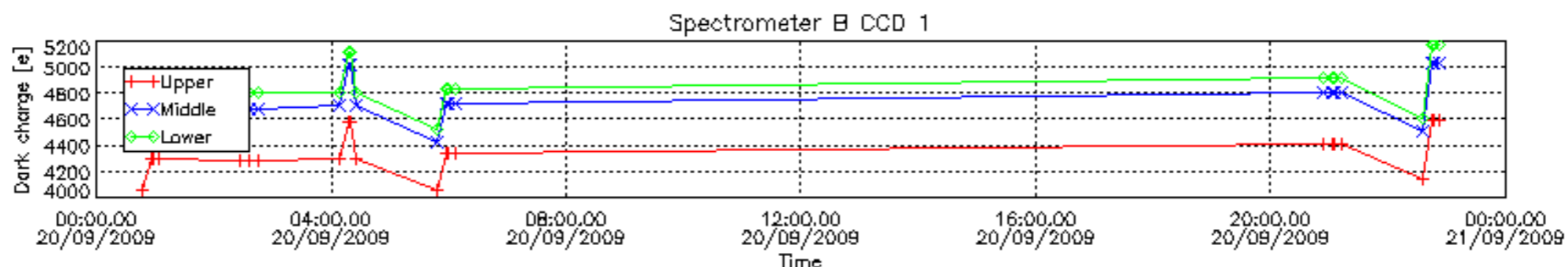
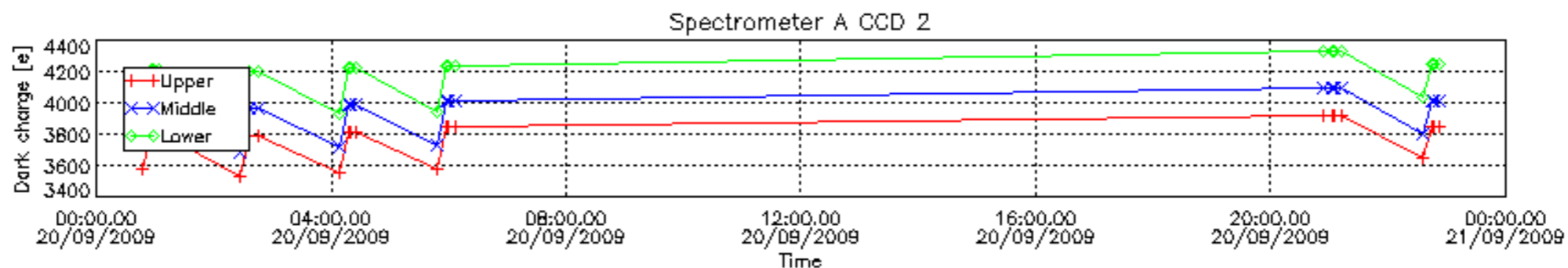
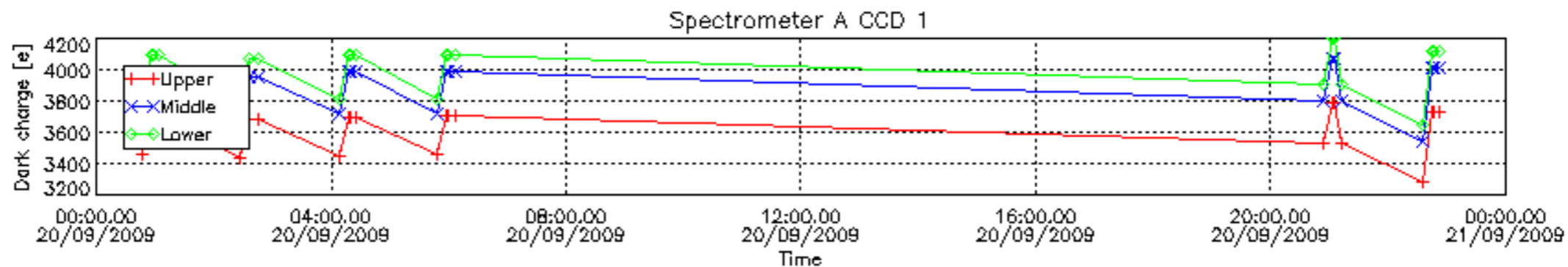
8. Auxiliary Data Files used for the production reported in section 2.4

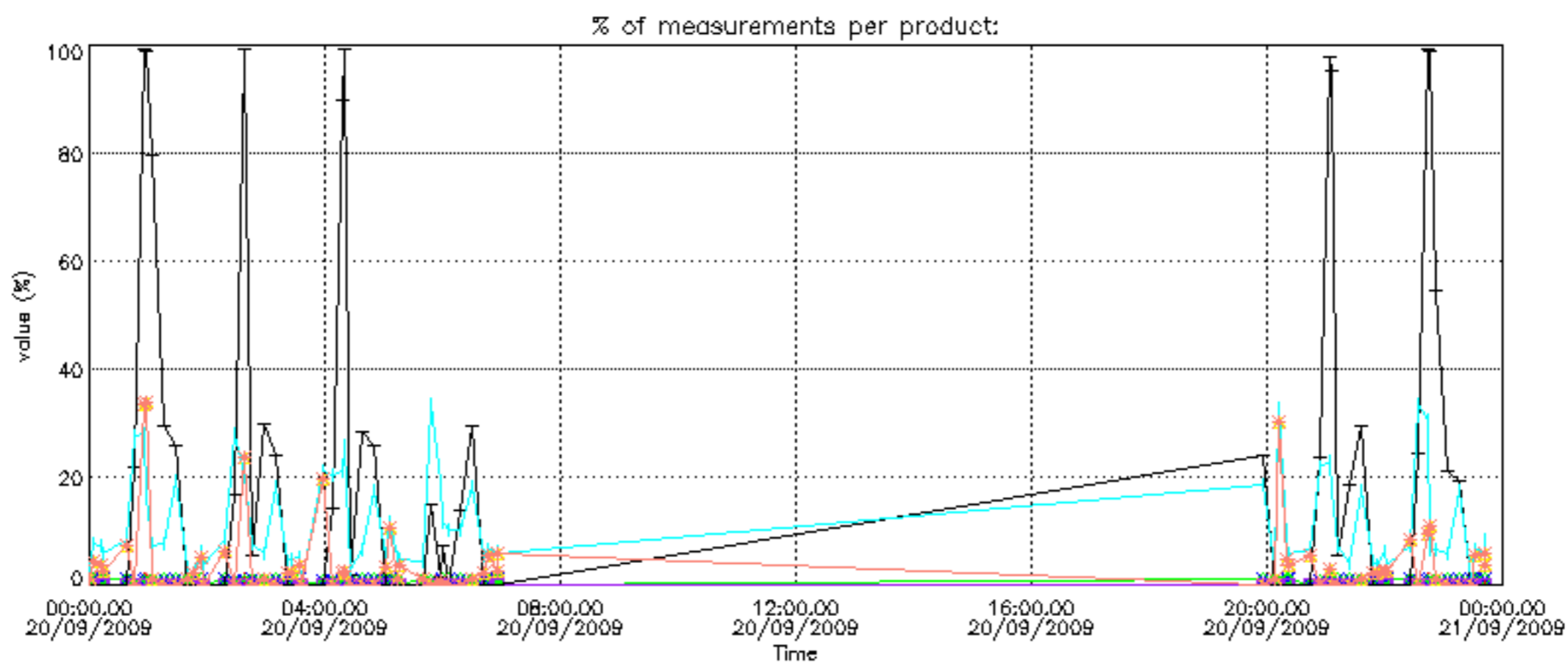
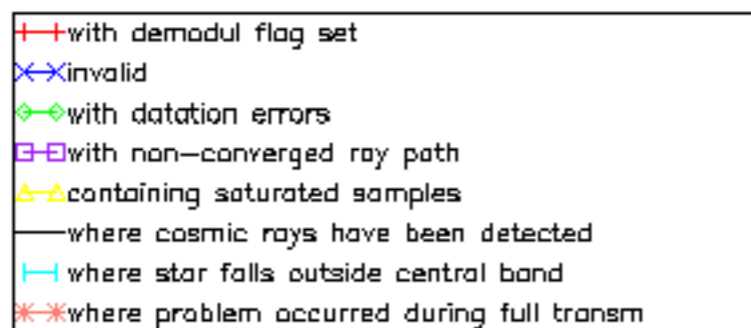
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	20-SEP-2009 00:00:05
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090915_081651_20090913_000000_20100101_000000	1	20-SEP-2009 00:00:05
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	20-SEP-2009 00:00:05
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-SEP-2009 00:00:05
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	20-SEP-2009 00:00:05
ECMWF_FILE	AUX_ECF_AXNECM20090919_064111_20090919_210000_20090920_090000	1	20-SEP-2009 00:00:05
ECMWF_FILE	AUX_ECF_AXNECM20090919_184112_20090920_030000_20090920_150000	26	20-SEP-2009 03:58:49
ECMWF_FILE	AUX_ECF_AXNECM20090920_064111_20090920_150000_20090921_030000	48	20-SEP-2009 19:55:35
ECMWF_FILE	AUX_ECF_AXNECM20090920_064111_20090920_210000_20090921_090000	66	20-SEP-2009 22:44:27
OPTIONAL_ECMWF_FILE	MISSING	1	20-SEP-2009 00:00:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090919_212538_000060572082_00372_39504_8794.N1	1	20-SEP-2009 00:00:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090919_230635_000057382082_00373_39505_8795.N1	7	20-SEP-2009 00:56:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090920_004732_000044632082_00374_39506_8796.N1	16	20-SEP-2009 02:18:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090920_020713_000054192082_00375_39507_8797.N1	26	20-SEP-2009 03:58:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090920_034252_000057382082_00376_39508_8798.N1	37	20-SEP-2009 05:39:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090920_194433_000035072082_00386_39518_8800.N1	48	20-SEP-2009 19:55:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090920_204818_000063762082_00386_39518_8801.N1	66	20-SEP-2009 22:44:27

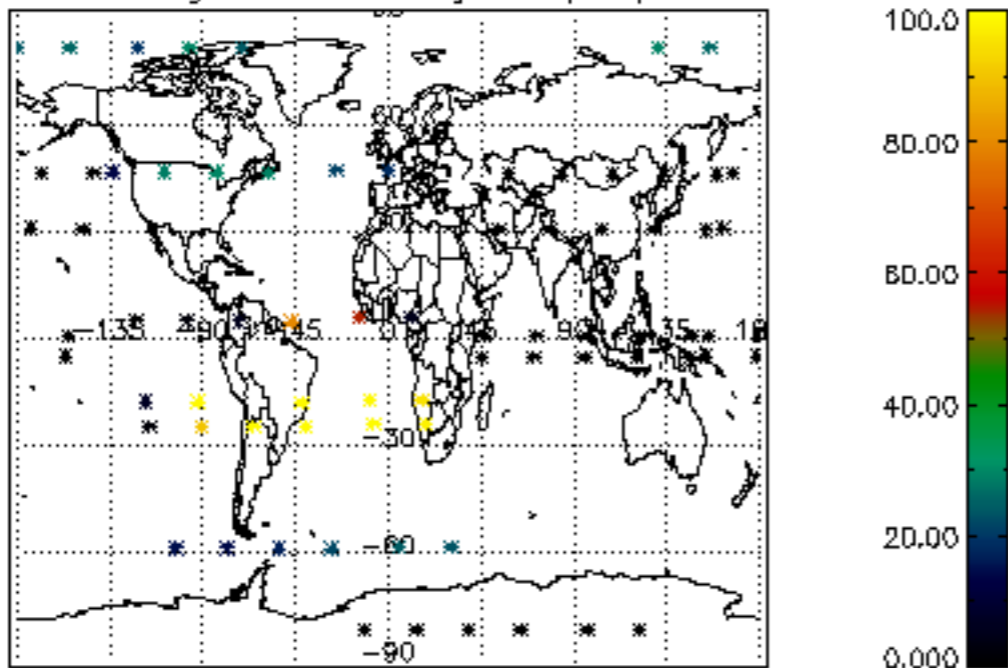




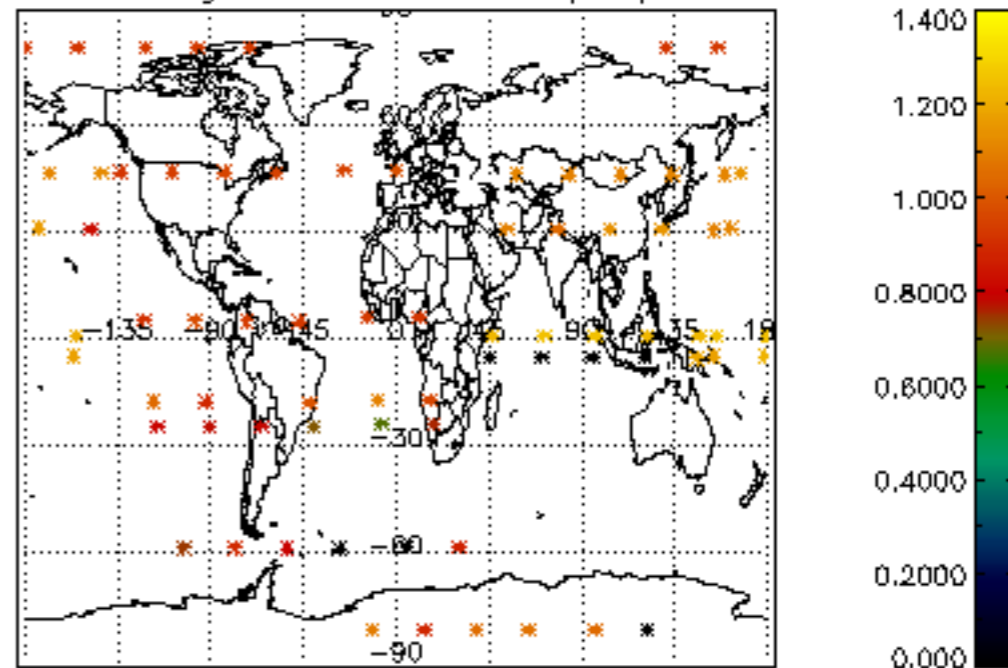




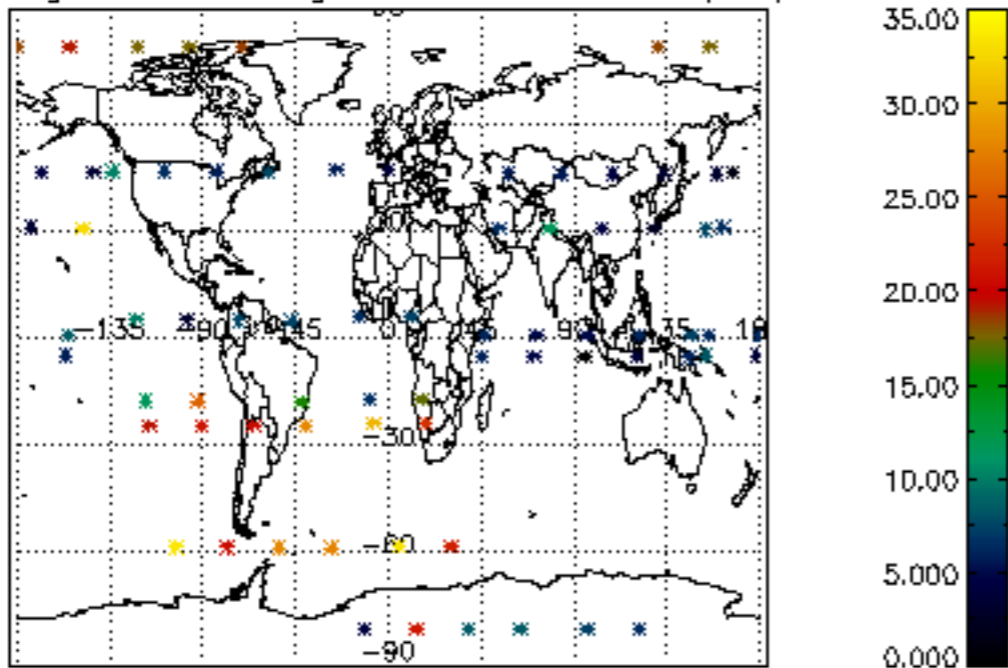
Percentage of cosmic ray hits per profile



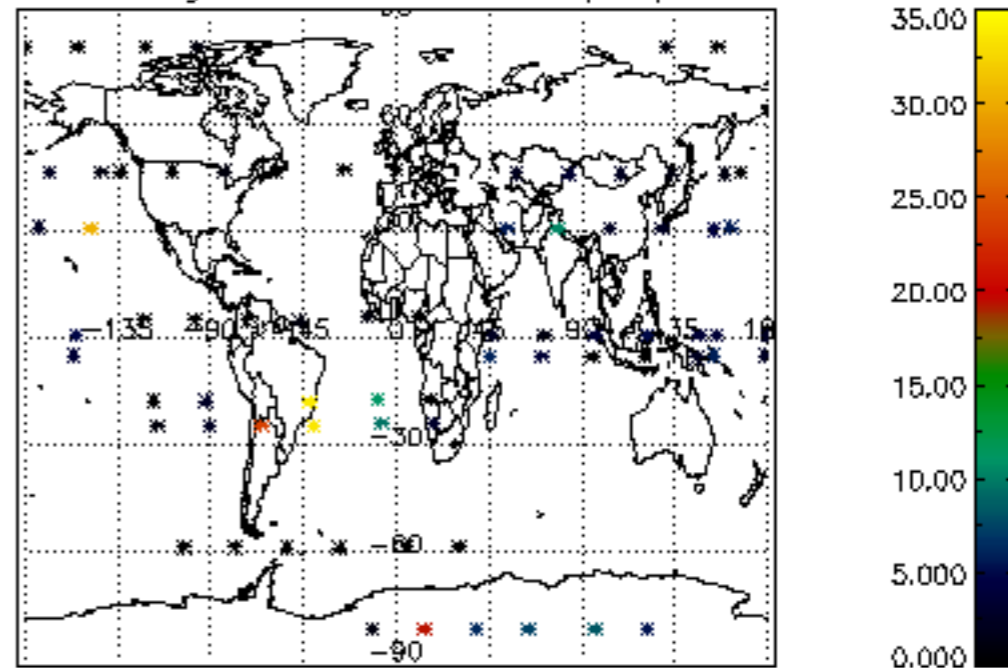
Percentage of datation errors per profile



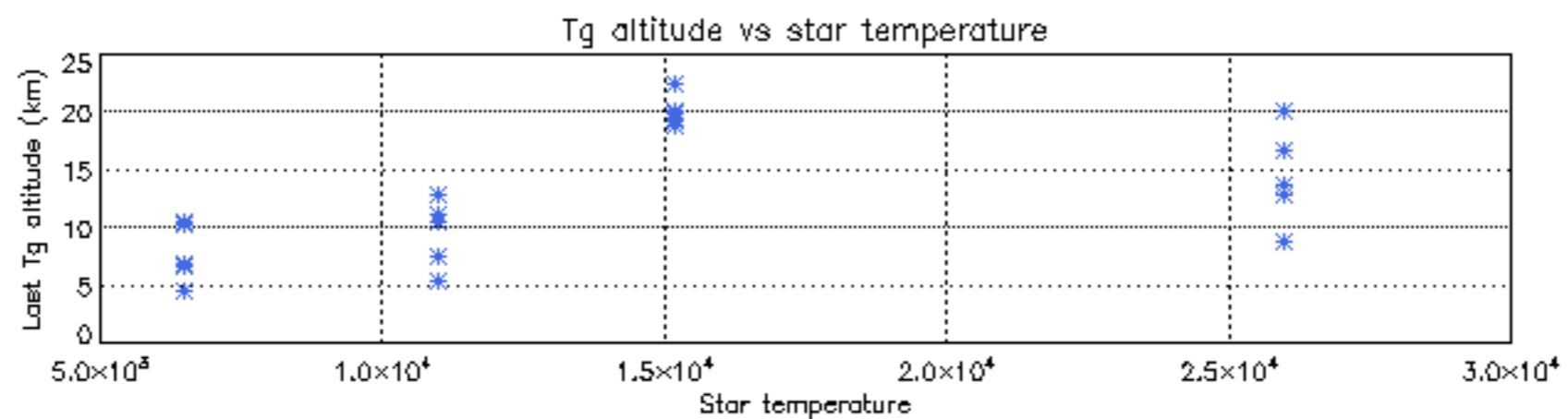
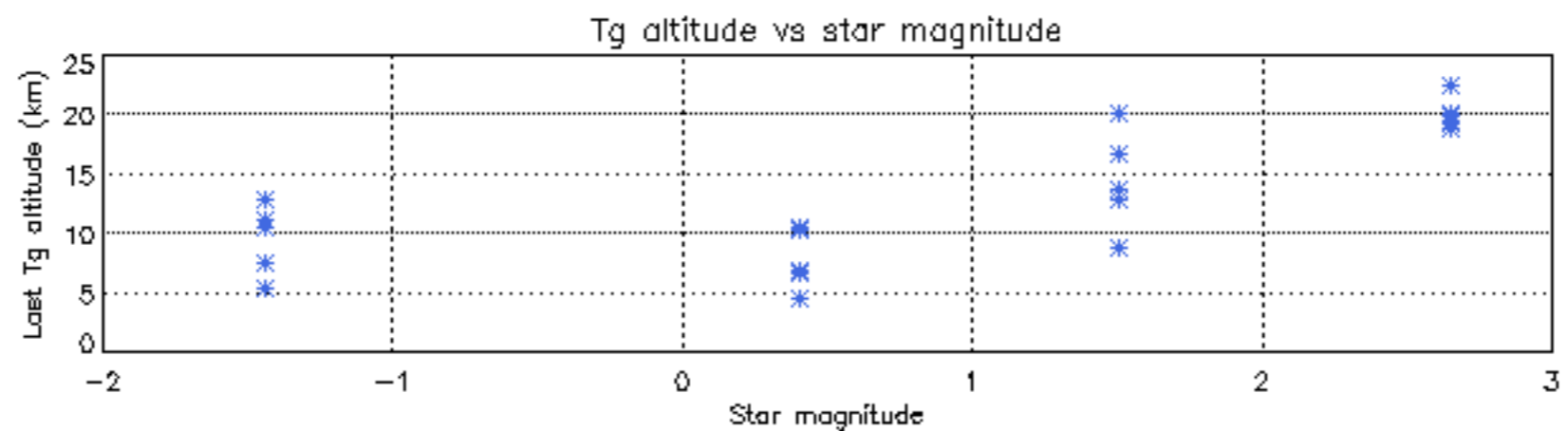
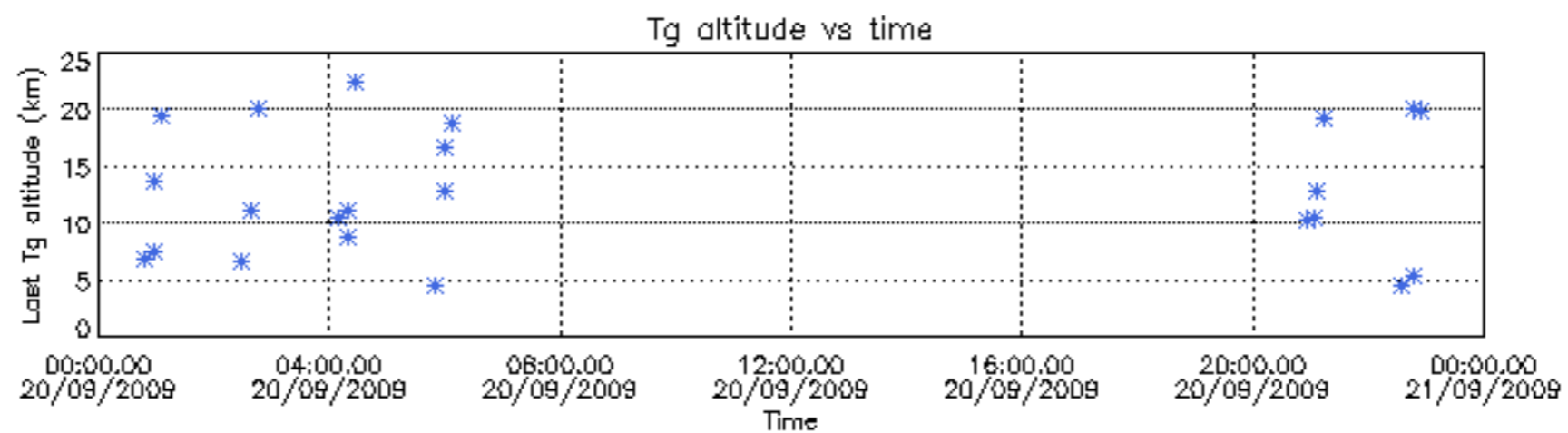
Percentage of star falling outside central band per profile



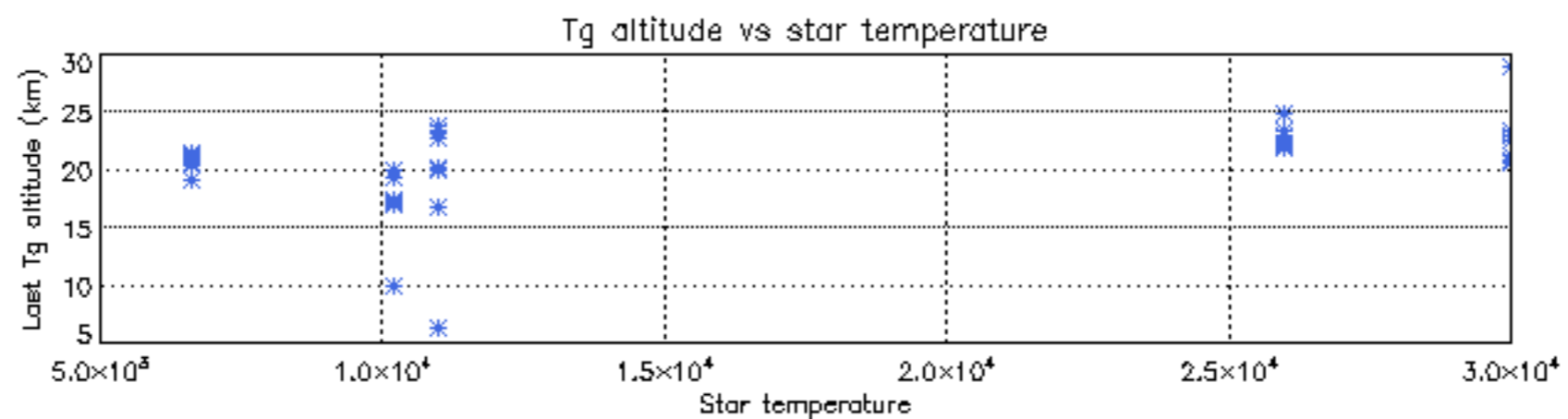
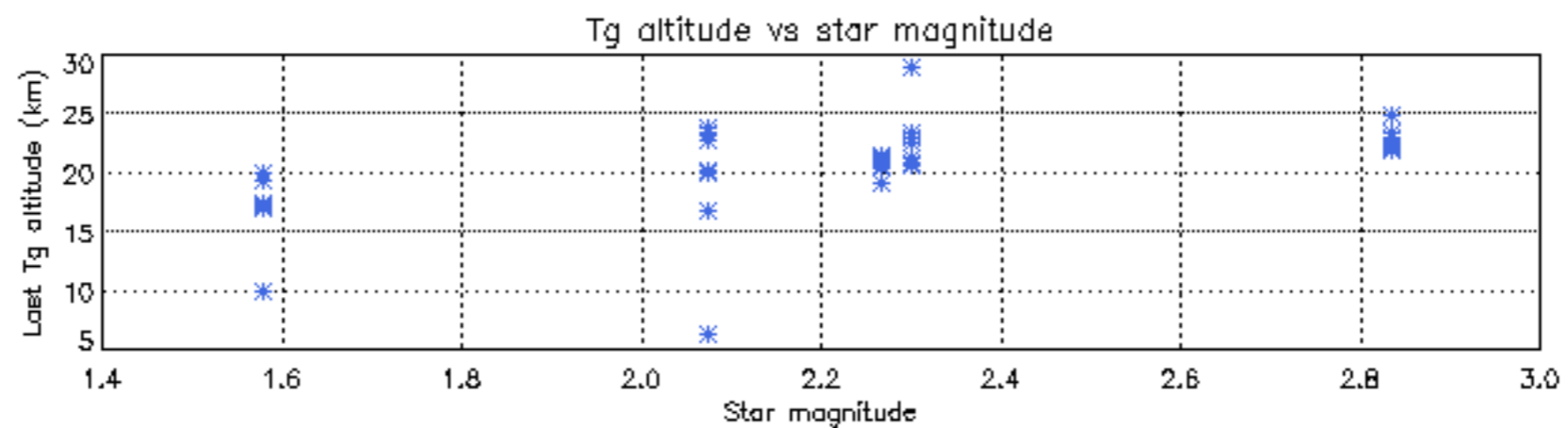
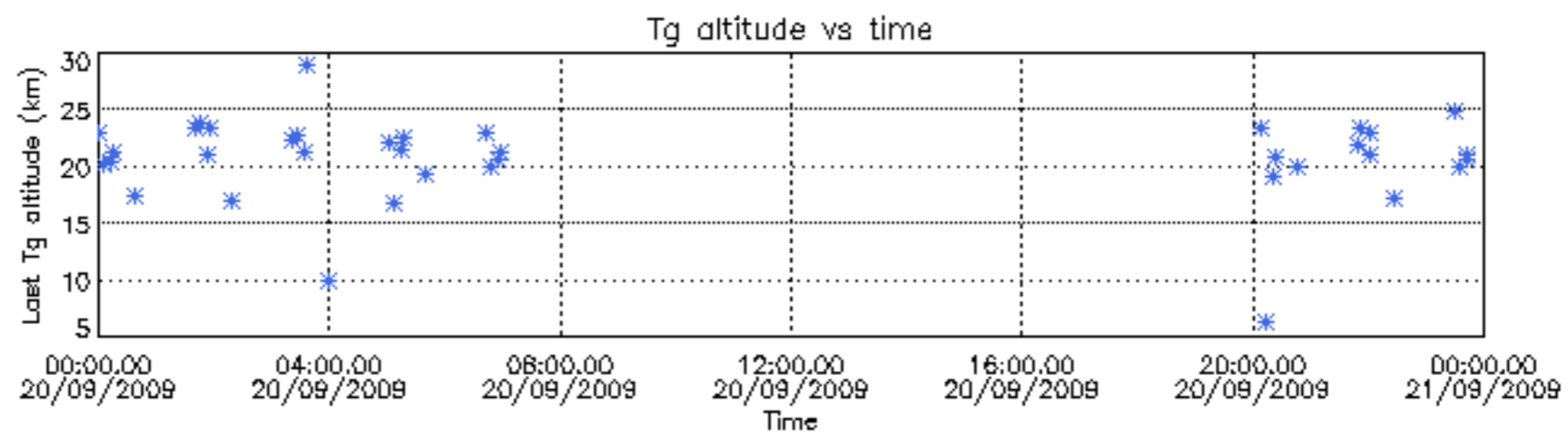
Percentage of saturation errors per profile

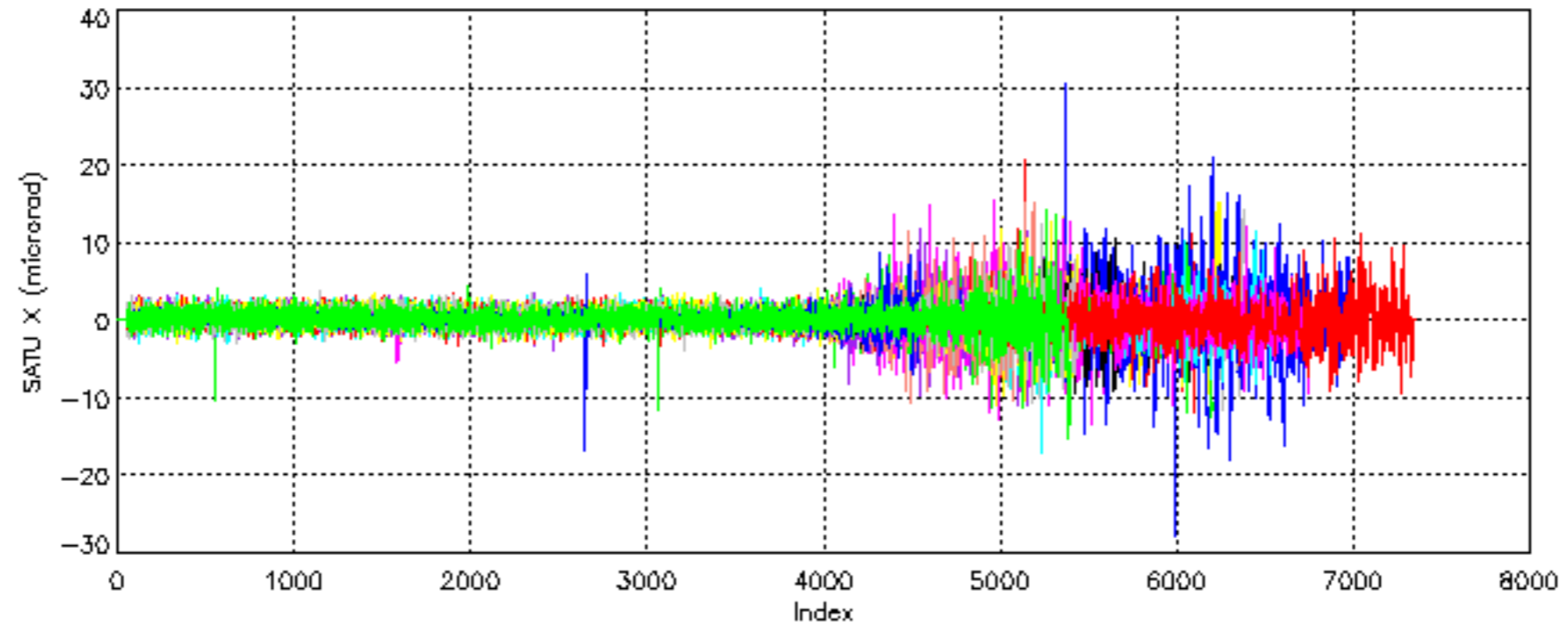


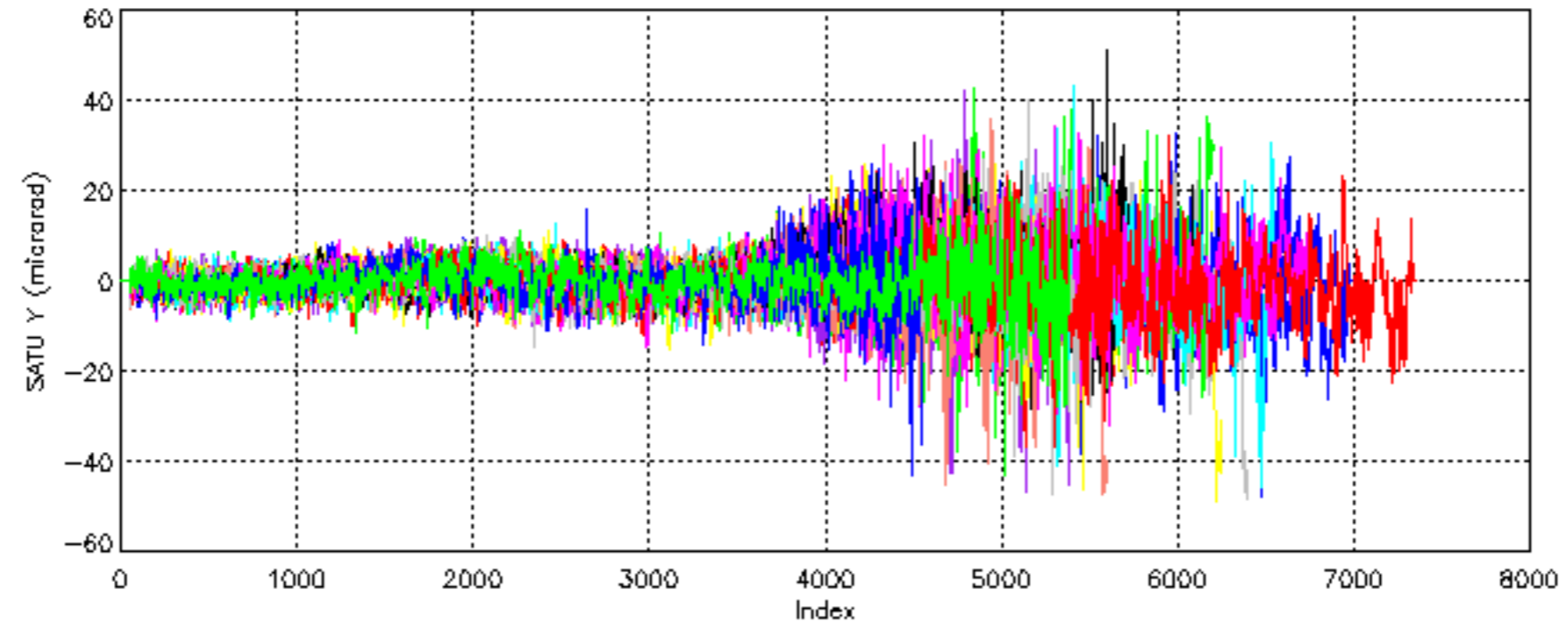
Tangent altitude at which the star is lost

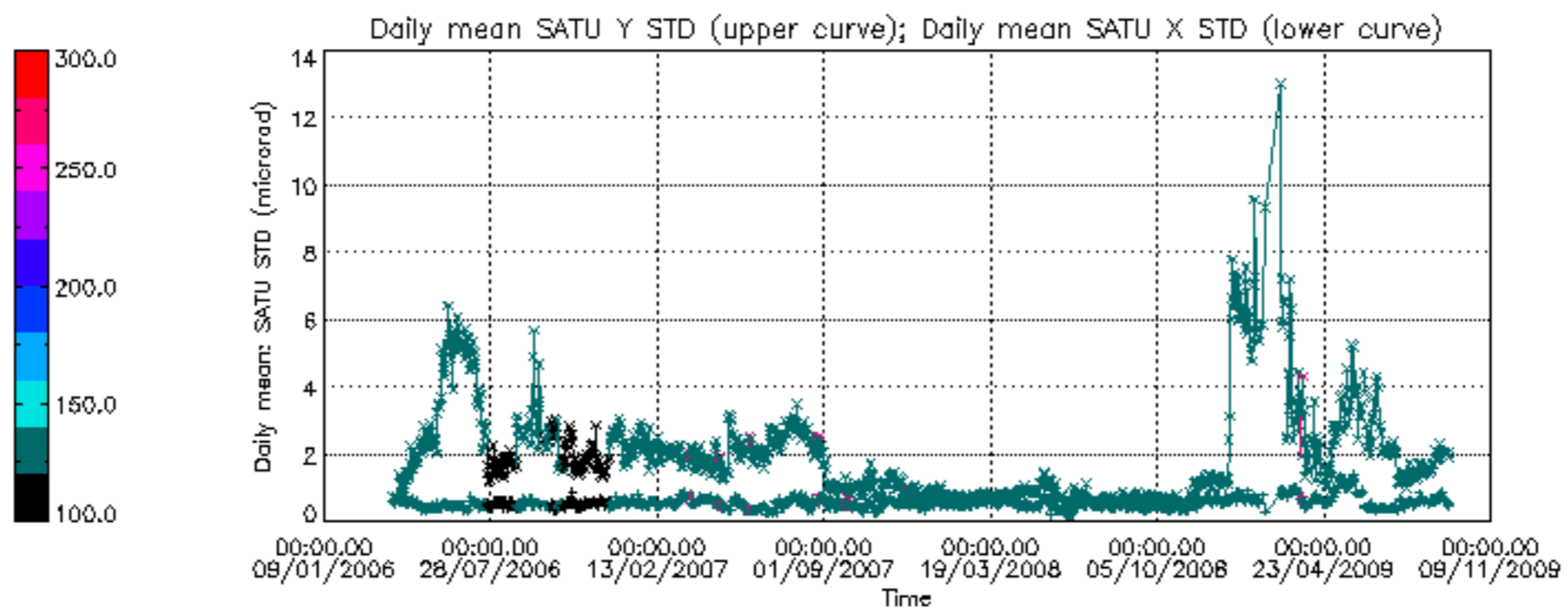


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090901_004836_000055572082_00102_39234_8472.N1

1; -717.2; 01-SEP-2009 00:48:36; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;39234
 2; -585.8; 01-SEP-2009 00:50:47; Dark ; 48.5; 47; 2Bet CMa ; 1.98; 28000;occ; 97; 0;39234
 3; -413.8; 01-SEP-2009 00:53:39; Dark ; 51.0; 101; 11Alp Lep ; 2.58; 7000;occ; 102; 0;39234
 4; -237.7; 01-SEP-2009 00:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39234
 5; 487.5; 01-SEP-2009 01:08:40; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39235
 6; 962.2; 01-SEP-2009 01:16:35; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39235
 7; 1329.7; 01-SEP-2009 01:22:43; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;39235
 8; 2249.9; 01-SEP-2009 01:38:03; Bright; 47.5; 90; 54Alp Peg ; 2.49; 11000;occ; 95; 0;39235
 9; 2501.4; 01-SEP-2009 01:42:14; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39235
 10; 3142.8; 01-SEP-2009 01:52:56; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39235
 11; 3270.9; 01-SEP-2009 01:55:04; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39235
 12; 4155.8; 01-SEP-2009 02:09:49; Bright; 60.0; 6; 13Alp Aur ; 0.08; 3400;occ; 120; 0;39235
 13; 4378.2; 01-SEP-2009 02:13:31; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;39235
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 6; 488.8; 01-SEP-2009 02:49:18; Dark ; 56.0; 157; The1Eri ; 2.91; 9300;occ; 112; 0;39236
 7; 962.7; 01-SEP-2009 02:57:12; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39236
 8; 1330.1; 01-SEP-2009 03:03:19; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;39236
 9; 2249.4; 01-SEP-2009 03:18:38; Bright; 47.0; 90; 54Alp Peg ; 2.49; 11000;occ; 94; 0;39236
 10; 2500.7; 01-SEP-2009 03:22:50; Bright; 43.0; 164; 44Eta Peg ; 2.95; 5400;occ; 86; 0;39236
 11; 3142.5; 01-SEP-2009 03:33:31; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39236
 12; 3270.4; 01-SEP-2009 03:35:39; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39236

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 4; -1242.9; 01-SEP-2009 04:01:02; Dark ; 48.5; 44; 24Gam Gem ; 1.93; 11000;occ; 97; 0;39236
 5; -965.8; 01-SEP-2009 04:05:39; Dark ; 74.0; 14; 58Alp Ori ; 0.87; 3000;occ; 148; 0;39236
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 8; -411.4; 01-SEP-2009 04:14:53; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;39236
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 11; 963.6; 01-SEP-2009 04:37:48; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39237
 12; 1330.4; 01-SEP-2009 04:43:55; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;39237
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 3; -1348.2; 01-SEP-2009 05:39:53; Dark ; 58.0; 151; 13Mu Gem ; 2.89; 3000;occ; 116; 0;39237
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 5; -964.9; 01-SEP-2009 05:46:16; Dark ; 71.5; 14; 58Alp Ori ; 0.87; 3000;occ; 143; 0;39237
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 9; -234.2; 01-SEP-2009 05:58:27; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39237
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 13; 2248.4; 01-SEP-2009 06:39:49; Bright; 46.5; 90; 54Alp Peg ; 2.49; 11000;occ; 93; 0;39238
 14; 2499.6; 01-SEP-2009 06:44:00; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39238
 15; 3141.0; 01-SEP-2009 06:54:42; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;39238
 16; 3268.9; 01-SEP-2009 06:56:50; Bright; 45.5; 76; 27Gam Cas ; 2.30; 30000;occ; 91; 0;39238

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 2; 1332.8; 01-SEP-2009 19:49:21; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;39246
 3; 2244.0; 01-SEP-2009 20:04:32; Bright; 46.0; 90; 54Alp Peg ; 2.49; 11000;occ; 92; 0;39246
 4; 2495.9; 01-SEP-2009 20:08:44; Bright; 40.5; 164; 44Eta Peg ; 2.95; 5400;occ; 81; 0;39246

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6; 3263.2; 01-SEP-2009 20:21:32; Bright; 46.5; 76; 27Gam Cas ; 2.30; 30000;occ; 93; 0;39246
7; 4152.7; 01-SEP-2009 20:36:21; Bright; 62.5; 6; 13Alp Aur ; 0.08; 3400;occ; 125; 0;39246
8; 4378.4; 01-SEP-2009 20:40:07; Bright; 50.5; 107; 37The Aur ; 2.65; 11000;occ; 101; 0;39246
9; 4690.5; 01-SEP-2009 20:45:19; Dark ; 57.5; 151; 13Mu Gem ; 2.89; 3000;occ; 115; 0;39246
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3; -576.6; 01-SEP-2009 20:58:08; Dark ; 48.0; 47; 2Bet CMA ; 1.98; 28000;occ; 96; 0;39246
4; -399.2; 01-SEP-2009 21:01:05; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;39246
5; -223.7; 01-SEP-2009 21:04:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39246
6; 502.0; 01-SEP-2009 21:16:06; Dark ; 57.0; 157; The1Eri ; 2.91; 9300;occ; 114; 0;39247
7; 969.2; 01-SEP-2009 21:23:53; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;39247
8; 1332.9; 01-SEP-2009 21:29:57; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;39247
9; 2243.6; 01-SEP-2009 21:45:08; Bright; 48.5; 90; 54Alp Peg ; 2.49; 11000;occ; 97; 0;39247
10; 2495.3; 01-SEP-2009 21:49:19; Bright; 63.0; 164; 44Eta Peg ; 2.95; 5400;occ; 126; 0;39247
11; 3135.5; 01-SEP-2009 22:00:00; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39247
12; 3262.5; 01-SEP-2009 22:02:07; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39247
13; 4152.6; 01-SEP-2009 22:16:57; Bright; 60.5; 6; 13Alp Aur ; 0.08; 3400;occ; 121; 0;39247
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16; 4797.5; 01-SEP-2009 22:27:42; Dark ; 52.5; 44; 24Gam Gem ; 1.93; 11000;occ; 105; 0;39247
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3; -397.9; 01-SEP-2009 22:41:42; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;39247
4; -222.5; 01-SEP-2009 22:44:38; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39247
5; 503.3; 01-SEP-2009 22:56:43; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39248
6; 969.8; 01-SEP-2009 23:04:30; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;39248
7; 2243.0; 01-SEP-2009 23:25:43; Bright; 59.5; 90; 54Alp Peg ; 2.49; 11000;occ; 119; 0;39248
8; 2494.9; 01-SEP-2009 23:29:55; Bright; 43.5; 164; 44Eta Peg ; 2.95; 5400;occ; 87; 0;39248
9; 3134.6; 01-SEP-2009 23:40:35; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;39248
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11; 4152.0; 01-SEP-2009 23:57:32; Bright; 63.5; 6; 13Alp Aur ; 0.08; 3400;occ; 127; 0;39248
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13; 4691.1; 02-SEP-2009 00:06:31; Dark ; 58.5; 151; 13Mu Gem ; 2.89; 3000;occ; 117; 0;39248
14; 4797.8; 02-SEP-2009 00:08:18; Dark ; 51.0; 44; 24Gam Gem ; 1.93; 11000;occ; 102; 0;39248
15; 5080.2; 02-SEP-2009 00:13:00; Dark ; 70.5; 14; 58Alp Ori ; 0.87; 3000;occ; 141; 0;39248
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8; -408.8; 01-SEP-2009 07:36:08; Dark ; 54.0; 101; 11Alp Lep ; 2.58; 7000;occ; 108; 0;39238
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4; 3268.2; 01-SEP-2009 08:37:25; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39239
5; 4154.7; 01-SEP-2009 08:52:11; Bright; 59.5; 6; 13Alp Aur ; 0.08; 3400;occ; 119; 0;39239
6; 4378.4; 01-SEP-2009 08:55:55; Bright; 46.5; 107; 37The Aur ; 2.65; 11000;occ; 93; 0;39239
7; 4688.4; 01-SEP-2009 09:01:05; Dark ; 54.5; 151; 13Mu Gem ; 2.89; 3000;occ; 109; 0;39239
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 8; 2277.5; 15-SEP-2009 00:58:14; Bright; 50.5; 140; 88Gam Peg ; 2.83; 26000;occ; 100; 0;39435
 9; 2415.4; 15-SEP-2009 01:00:32; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;39435
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 10; 2181.5; 15-SEP-2009 04:17:50; Bright; 44.5; 90; 54Alp Peg ; 2.49; 11000;occ; 89; 0;39437
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6; 3120.8; 17-SEP-2009 18:35:39; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;39474
7; 4485.2; 17-SEP-2009 18:58:23; Bright; 48.5; 24; 66Alp Gem ; 1.58; 10200;occ; 97; 0;39474
8; 5017.4; 17-SEP-2009 19:07:15; Dark ; 57.5; 8; 10Alp CMI ; 0.40; 6500;occ; 115; 0;39474
9; 5578.9; 17-SEP-2009 19:16:37; Dark ; 60.0; 1; 9Alp CMA ; -1.44; 11000;occ; 120; 0;39474
10; 5705.3; 17-SEP-2009 19:18:43; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;39474
11; 5930.5; 17-SEP-2009 19:22:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39474
12; 6074.6; 17-SEP-2009 19:24:52; Dark ; 53.5; 108; Alp Col ; 2.65; 15200;occ; 107; 0;39474
13; 6790.0; 17-SEP-2009 19:36:48; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;39474
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2; -328.1; 18-SEP-2009 00:20:33; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;39477
3; -102.5; 18-SEP-2009 00:24:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39477
4; 42.4; 18-SEP-2009 00:26:44; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;39478
5; 756.7; 18-SEP-2009 00:38:38; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39478
6; 1531.5; 18-SEP-2009 00:51:33; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;39478
7; 2174.8; 18-SEP-2009 01:02:16; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;39478
8; 2404.8; 18-SEP-2009 01:06:06; Bright; 41.0; 93; 53Bet Peg ; 2.52; 3100;occ; 82; 0;39478
9; 2516.9; 18-SEP-2009 01:07:58; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;39478
10; 3014.2; 18-SEP-2009 01:16:16; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39478
11; 3118.5; 18-SEP-2009 01:18:00; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39478
12; 4485.6; 18-SEP-2009 01:40:47; Bright; 48.5; 24; 66Alp Gem ; 1.58; 10200;occ; 97; 0;39478
13; 5019.5; 18-SEP-2009 01:49:41; Dark ; 64.5; 8; 10Alp CMI ; 0.40; 6500;occ; 129; 0;39478
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2; -327.0; 18-SEP-2009 02:01:10; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;39478
3; -101.6; 18-SEP-2009 02:04:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39478
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2; 1532.0; 18-SEP-2009 04:12:45; Dark ; 55.5; 52; 16Bet Cet ; 2.04; 4500;occ; 111; 0;39480
3; 2251.2; 18-SEP-2009 04:24:44; Bright; 47.0; 140; 88Gam Peg ; 2.83; 26000;occ; 94; 0;39480
4; 2404.5; 18-SEP-2009 04:27:18; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;39480
5; 2515.9; 18-SEP-2009 04:29:09; Bright; 51.5; 58; 21Alp And ; 2.07; 11000;occ; 103; 0;39480
6; 3013.6; 18-SEP-2009 04:37:27; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39480
7; 3117.5; 18-SEP-2009 04:39:11; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39480
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2; -1015.1; 18-SEP-2009 05:10:54; Dark ; 65.0; 8; 10Alp CMi ; 0.40; 6500;occ; 130; 0;39480
3; -450.4; 18-SEP-2009 05:20:19; Dark ; 72.5; 1; 9Alp CMA ; -1.44; 11000;occ; 145; 0;39480
4; -325.3; 18-SEP-2009 05:22:24; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;39480
5; -99.6; 18-SEP-2009 05:26:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39480
6; 46.6; 18-SEP-2009 05:28:36; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;39481
7; 759.8; 18-SEP-2009 05:40:29; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39481
8; 1532.2; 18-SEP-2009 05:53:21; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;39481
9; 2250.7; 18-SEP-2009 06:05:20; Bright; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;39481
10; 2404.3; 18-SEP-2009 06:07:53; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;39481
11; 2515.3; 18-SEP-2009 06:09:44; Bright; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;39481
12; 3013.1; 18-SEP-2009 06:18:02; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39481
13; 3117.0; 18-SEP-2009 06:19:46; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;39481
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2; 2245.9; 18-SEP-2009 21:10:38; Bright; 46.5; 140; 88Gam Peg ; 2.83; 26000;occ; 93; 0;39490
3; 2509.9; 18-SEP-2009 21:15:02; Bright; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;39490
4; 3009.2; 18-SEP-2009 21:23:22; Bright; 59.0; 74; 11Bet Cas ; 2.27; 6600;occ; 118; 0;39490
5; 3111.8; 18-SEP-2009 21:25:04; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39490
6; 4487.4; 18-SEP-2009 21:48:00; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;39490
7; 5026.6; 18-SEP-2009 21:56:59; Dark ; 60.0; 8; 10Alp CMi ; 0.40; 6500;occ; 120; 0;39490
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3; -89.8; 18-SEP-2009 22:12:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39490
4; 59.7; 18-SEP-2009 22:14:48; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;39491
5; 769.6; 18-SEP-2009 22:26:38; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39491
6; 1533.7; 18-SEP-2009 22:39:22; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;39491
7; 2245.5; 18-SEP-2009 22:51:14; Bright; 46.5; 140; 88Gam Peg ; 2.83; 26000;occ; 93; 0;39491
8; 2509.1; 18-SEP-2009 22:55:37; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;39491
9; 3008.8; 18-SEP-2009 23:03:57; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39491
10; 3111.5; 18-SEP-2009 23:05:40; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39491
11; 4487.4; 18-SEP-2009 23:28:36; Bright; 47.0; 24; 66Alp Gem ; 1.58; 10200;occ; 94; 0;39491
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4; 770.5; 19-SEP-2009 00:07:15; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;39492
5; 1533.5; 19-SEP-2009 00:19:58; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;39492
6; 2244.7; 19-SEP-2009 00:31:49; Bright; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;39492
7; 2508.5; 19-SEP-2009 00:36:13; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;39492
8; 3008.3; 19-SEP-2009 00:44:32; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39492
9; 3110.8; 19-SEP-2009 00:46:15; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;39492
10; 4487.5; 19-SEP-2009 01:09:12; Bright; 48.5; 24; 66Alp Gem ; 1.58; 10200;occ; 97; 0;39492
11; 5027.8; 19-SEP-2009 01:18:12; Dark ; 65.5; 8; 10Alp CMi ; 0.40; 6500;occ; 131; 0;39492
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2; -1014.5; 18-SEP-2009 06:51:31; Dark ; 59.0; 8; 10Alp CMi ; 0.40; 6500;occ; 118; 0;39481
3; -449.2; 18-SEP-2009 07:00:56; Dark ; 62.0; 1; 9Alp CMA ; -1.44; 11000;occ; 124; 0;39481
4; -324.4; 18-SEP-2009 07:03:01; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;39481
5; -98.6; 18-SEP-2009 07:06:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39481
6; 47.6; 18-SEP-2009 07:09:13; Dark ; 54.5; 108; Alp Col ; 2.65; 15200;occ; 109; 0;39482
7; 760.8; 18-SEP-2009 07:21:06; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;39482
8; 1532.4; 18-SEP-2009 07:33:57; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;39482
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3; 2514.6; 18-SEP-2009 07:50:20; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;39482

4; 3012.6; 18-SEP-2009 07:58:38; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39482
5; 3116.4; 18-SEP-2009 08:00:21; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;39482
6; 4486.3; 18-SEP-2009 08:23:11; Bright; 46.0; 24; 66Alp Gem ; 1.58; 10200;occ; 92; 0;39482
7; 5022.0; 18-SEP-2009 08:32:07; Dark ; 59.5; 8; 10Alp CMI ; 0.40; 6500;occ; 119; 0;39482
8; 5587.9; 18-SEP-2009 08:41:33; Dark ; 61.5; 1; 9Alp CMA ; -1.44; 11000;occ; 123; 0;39482
9; 5712.4; 18-SEP-2009 08:43:37; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;39482
10; 5938.2; 18-SEP-2009 08:47:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39482
11; 6084.9; 18-SEP-2009 08:49:50; Dark ; 51.5; 108; Alp Col ; 2.65; 15200;occ; 103; 0;39482
12; 6797.7; 18-SEP-2009 09:01:43; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39482
13; 7568.5; 18-SEP-2009 09:14:34; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;39482
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3; 2514.1; 18-SEP-2009 09:30:55; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;39483
4; 3012.2; 18-SEP-2009 09:39:13; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39483
5; 3115.8; 18-SEP-2009 09:40:57; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;39483
6; 4486.5; 18-SEP-2009 10:03:47; Bright; 45.5; 24; 66Alp Gem ; 1.58; 10200;occ; 91; 0;39483
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8; 5589.1; 18-SEP-2009 10:22:10; Dark ; 59.5; 1; 9Alp CMA ; -1.44; 11000;occ; 119; 0;39483
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12; 6798.7; 18-SEP-2009 10:42:20; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39483
13; 7568.4; 18-SEP-2009 10:55:09; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;39483
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2; 2403.6; 18-SEP-2009 11:09:40; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;39484
3; 2513.5; 18-SEP-2009 11:11:30; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;39484
4; 3011.9; 18-SEP-2009 11:19:49; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39484
5; 3115.4; 18-SEP-2009 11:21:32; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39484
6; 4486.7; 18-SEP-2009 11:44:24; Bright; 49.0; 24; 66Alp Gem ; 1.58; 10200;occ; 98; 0;39484
7; 5023.2; 18-SEP-2009 11:53:20; Dark ; 61.0; 8; 10Alp CMI ; 0.40; 6500;occ; 122; 0;39484
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9; 5714.3; 18-SEP-2009 12:04:51; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39484
10; 5940.1; 18-SEP-2009 12:08:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39484
11; 6087.5; 18-SEP-2009 12:11:04; Dark ; 53.5; 108; Alp Col ; 2.65; 15200;occ; 107; 0;39484
12; 6799.8; 18-SEP-2009 12:22:57; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;39484
13; 7568.5; 18-SEP-2009 12:35:45; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;39484
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3; 2513.1; 18-SEP-2009 12:52:06; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;39485
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5; 3114.8; 18-SEP-2009 13:02:07; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;39485
6; 4486.8; 18-SEP-2009 13:24:59; Bright; 64.0; 24; 66Alp Gem ; 1.58; 10200;occ; 128; 0;39485
7; 5023.7; 18-SEP-2009 13:33:56; Dark ; 60.5; 8; 10Alp CMI ; 0.40; 6500;occ; 121; 0;39485
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9; 5715.2; 18-SEP-2009 13:45:28; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;39485
10; 5941.1; 18-SEP-2009 13:49:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39485
11; 6088.8; 18-SEP-2009 13:51:41; Dark ; 53.5; 108; Alp Col ; 2.65; 15200;occ; 107; 0;39485
12; 6800.6; 18-SEP-2009 14:03:33; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39485
13; 7568.8; 18-SEP-2009 14:16:21; Dark ; 35.5; 52; 16Bet Cet ; 2.04; 4500;occ; 71; 0;39485
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3; 2403.2; 18-SEP-2009 14:30:52; Bright; 42.5; 93; 53Bet Peg ; 2.52; 3100;occ; 85; 0;39486
4; 2512.4; 18-SEP-2009 14:32:41; Bright; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;39486
5; 3011.2; 18-SEP-2009 14:41:00; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39486
6; 3114.3; 18-SEP-2009 14:42:43; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39486
7; 4486.9; 18-SEP-2009 15:05:35; Bright; 45.0; 24; 66Alp Gem ; 1.58; 10200;occ; 90; 0;39486
8; 5024.6; 18-SEP-2009 15:14:33; Dark ; 55.5; 8; 10Alp CMI ; 0.40; 6500;occ; 111; 0;39486
9; 5592.9; 18-SEP-2009 15:24:01; Dark ; 75.0; 1; 9Alp CMA ; -1.44; 11000;occ; 150; 0;39486
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11; 5942.2; 18-SEP-2009 15:29:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39486
12; 6090.1; 18-SEP-2009 15:32:19; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39486
13; 6801.6; 18-SEP-2009 15:44:10; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;39486
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3; 2987.8; 22-SEP-2009 17:35:55; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39545
4; 3083.9; 22-SEP-2009 17:37:32; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39545
5; 4495.1; 22-SEP-2009 18:01:03; Bright; 48.5; 24; 66Alp Gem ; 1.58; 10200;occ; 97; 0;39545
6; 5062.6; 22-SEP-2009 18:10:30; Dark ; 63.0; 8; 10Alp CMi ; 0.40; 6500;occ; 126; 0;39545
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3; 2479.9; 22-SEP-2009 19:08:04; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;39546
4; 2987.5; 22-SEP-2009 19:16:31; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39546
5; 3083.7; 22-SEP-2009 19:18:07; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39546
6; 5062.8; 22-SEP-2009 19:51:06; Dark ; 41.5; 8; 10Alp CMi ; 0.40; 6500;occ; 83; 0;39546
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8; 5816.4; 22-SEP-2009 20:03:40; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;39546
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2; 2983.0; 23-SEP-2009 15:23:37; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39558
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3; 2459.8; 25-SEP-2009 22:34:40; Bright; 34.0; 58; 21Alp And ; 2.07; 11000;occ; 68; 0;39591
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3; 3061.3; 26-SEP-2009 00:25:17; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;39592
4; 4503.1; 26-SEP-2009 00:49:19; Bright; 33.5; 24; 66Alp Gem ; 1.58; 10200;occ; 67; 0;39592
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3; 200.2; 26-SEP-2009 01:18:12; Dark ; 55.0; 108; Alp Col ; 2.65; 15200;occ; 110; 0;39593
4; 859.5; 26-SEP-2009 01:29:11; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;39593
5; 1547.3; 26-SEP-2009 01:40:39; Dark ; 38.0; 52; 16Bet Cet ; 2.04; 4500;occ; 76; 0;39593
6; 2203.8; 26-SEP-2009 01:51:35; Bright; 38.5; 140; 88Gam Peg ; 2.83; 26000;occ; 77; 0;39593
7; 2458.9; 26-SEP-2009 01:55:50; Bright; 25.0; 58; 21Alp And ; 2.07; 11000;occ; 50; 0;39593
8; 2715.3; 26-SEP-2009 02:00:07; Bright; 51.5; 53; 43Bet And ; 2.05; 3300;occ; 103; 0;39593
9; 2971.2; 26-SEP-2009 02:04:23; Bright; 23.0; 74; 11Bet Cas ; 2.27; 6600;occ; 46; 0;39593
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6; 202.0; 26-SEP-2009 02:58:49; Dark ; 54.5; 108; Alp Col ; 2.65; 15200;occ; 109; 0;39594
7; 860.8; 26-SEP-2009 03:09:48; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;39594
8; 1547.7; 26-SEP-2009 03:21:15; Dark ; 38.5; 52; 16Bet Cet ; 2.04; 4500;occ; 77; 0;39594
9; 2203.4; 26-SEP-2009 03:32:11; Bright; 39.0; 140; 88Gam Peg ; 2.83; 26000;occ; 78; 0;39594
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11; 2714.3; 26-SEP-2009 03:40:42; Bright; 74.0; 53; 43Bet And ; 2.05; 3300;occ; 148; 0;39594
12; 2971.0; 26-SEP-2009 03:44:58; Bright; 1.0; 74; 11Bet Cas ; 2.27; 6600;occ; 2; 0;39594
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4; -210.9; 26-SEP-2009 04:32:33; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;39594
5; 19.1; 26-SEP-2009 04:36:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39595
6; 203.6; 26-SEP-2009 04:39:27; Dark ; 25.5; 108; Alp Col ; 2.65; 15200;occ; 51; 0;39595
7; 861.6; 26-SEP-2009 04:50:25; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;39595
8; 1548.5; 26-SEP-2009 05:01:52; Dark ; 35.5; 52; 16Bet Cet ; 2.04; 4500;occ; 71; 0;39595

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11; 2713.8; 26-SEP-2009 05:21:17; Bright; 44.0; 53; 43Bet And ; 2.05; 3300;occ; 88; 0;39595
12; 2970.9; 26-SEP-2009 05:25:34; Bright; 33.5; 74; 11Bet Cas ; 2.27; 6600;occ; 67; 0;39595
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7; 869.8; 26-SEP-2009 21:36:32; Dark ; 42.0; 157; The1Eri ; 2.91; 9300;occ; 84; 0;39605
8; 1549.2; 26-SEP-2009 21:47:52; Dark ; 36.0; 52; 16Bet Cet ; 2.04; 4500;occ; 72; 0;39605
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11; 2705.3; 26-SEP-2009 22:07:08; Bright; 44.5; 53; 43Bet And ; 2.05; 3300;occ; 89; 0;39605
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9; 2704.0; 26-SEP-2009 23:47:42; Bright; 44.5; 53; 43Bet And ; 2.05; 3300;occ; 89; 0;39606
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5; 21.3; 26-SEP-2009 07:57:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39597
6; 206.2; 26-SEP-2009 08:00:41; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;39597
7; 864.1; 26-SEP-2009 08:11:39; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;39597
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7; 5546.7; 27-SEP-2009 10:38:41; Dark ; 33.5; 132; 15Rho Pup ; 2.80; 6900;occ; 67; 0;39612
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12; 6913.1; 27-SEP-2009 12:42:03; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;39613
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13; 4510.4; 30-SEP-2009 00:23:33; Bright; 36.5; 24; 66Alp Gem ; 1.58; 10200;occ; 73; 0;39649
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