

GOMOS Daily Report 27-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	30SEP2009 04:34:14
Data source version	GOMOS/5.00L03
Start time of products	27SEP2009 21:16:16
Stop time of products	27SEP2009 22:15:46
Store outputs in DB	Yes
Nb of level 1b prods	8
Nb of prods with errors	0

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

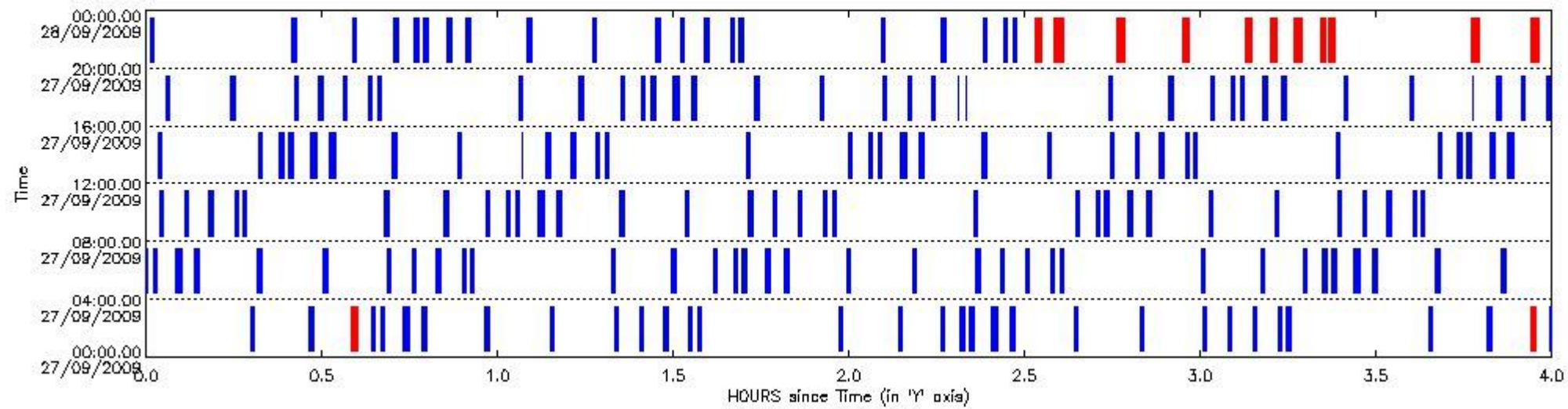
2.1 Level 0 products arrived in PCF (see template [here](#))

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).



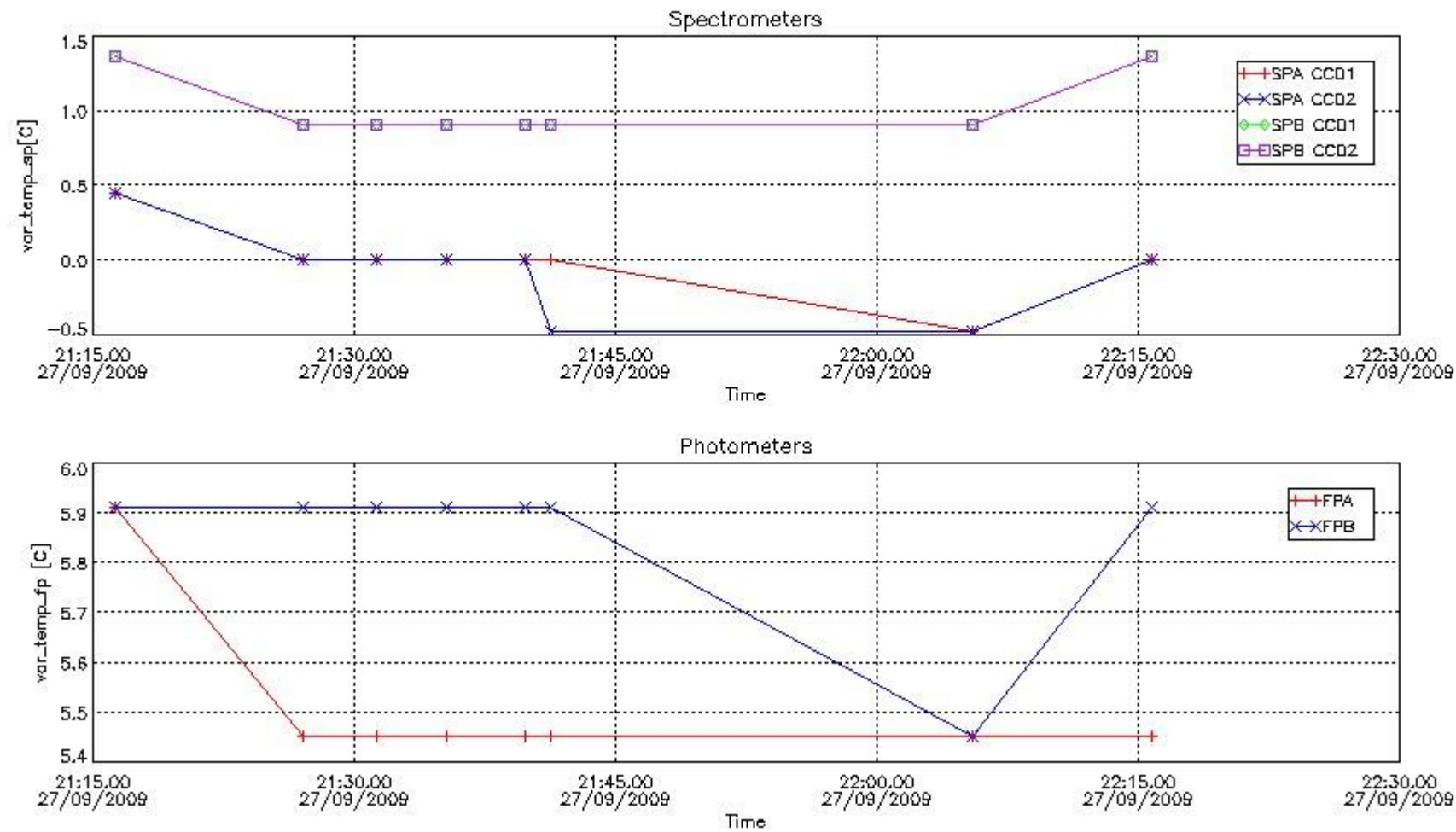
2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
27-SEP-2009 00:35:06	15RhoPup	132	39606
27-SEP-2009 03:56:20	15RhoPup	132	39608
27-SEP-2009 22:31:54	DSA1059	0	39620
27-SEP-2009 22:35:07	AlpCol	108	39620
27-SEP-2009 22:45:49	The1Eri	157	39620
27-SEP-2009 22:56:58	16BetCet	52	39620
27-SEP-2009 23:07:43	88GamPeg	140	39620
27-SEP-2009 23:11:56	21AlpAnd	58	39620
27-SEP-2009 23:16:00	43BetAnd	53	39620
27-SEP-2009 23:20:30	11BetCas	74	39620
27-SEP-2009 23:21:56	27GamCas	76	39620
27-SEP-2009 23:46:13	66AlpGem	24	39620
27-SEP-2009 23:56:29	10AlpCMi	8	39620

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_1PNPDE20090927_211616_000000362082_00487_39619_8780.N1	27-SEP-2009 21:16:16	Straylight	35.500	52	16Bet Cet	2.0370	4500.0	71	39619	No
2	GOM_TRA_1PNPDE20090927_212702_000000362082_00487_39619_8781.N1	27-SEP-2009 21:27:02	Bright	36.000	140	88Gam Peg	2.8340	26000.	72	39619	No
3	GOM_TRA_1PNPDE20090927_213115_000000362082_00487_39619_8782.N1	27-SEP-2009 21:31:15	Bright	36.000	58	21Alp And	2.0730	11000.	72	39619	No
4	GOM_TRA_1PNPDE20090927_213519_000000442082_00487_39619_8783.N1	27-SEP-2009 21:35:19	Bright	43.500	53	43Bet And	2.0480	3300.0	87	39619	No
5	GOM_TRA_1PNPDE20090927_213949_000000342082_00487_39619_8784.N1	27-SEP-2009 21:39:49	Bright	33.500	74	11Bet Cas	2.2680	6600.0	67	39619	No
6	GOM_TRA_1PNPDE20090927_214115_000000352082_00487_39619_8785.N1	27-SEP-2009 21:41:15	Bright	34.500	76	27Gam Cas	2.3000	30000.	69	39619	No
7	GOM_TRA_1PNPDE20090927_220531_000000352082_00487_39619_8786.N1	27-SEP-2009 22:05:31	Twilight_and_stray	35.000	24	66Alp Gem	1.5800	10200.	70	39619	No
8	GOM_TRA_1PNPDE20090927_221546_000000402082_00487_39619_8787.N1	27-SEP-2009 22:15:46	Dark	39.500	8	10Alp CMi	0.40000	6500.0	79	39619	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).

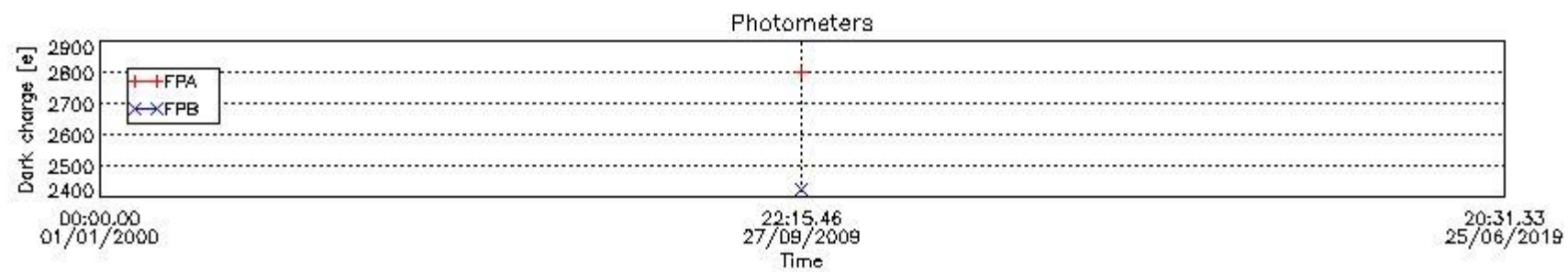
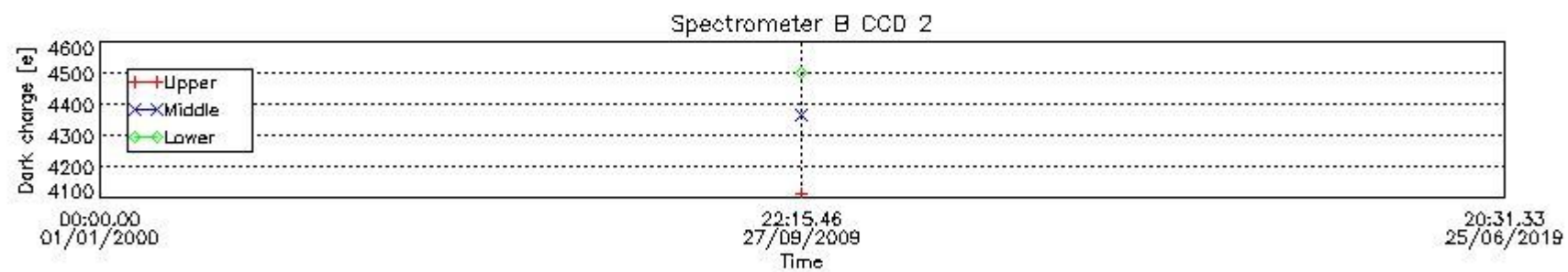
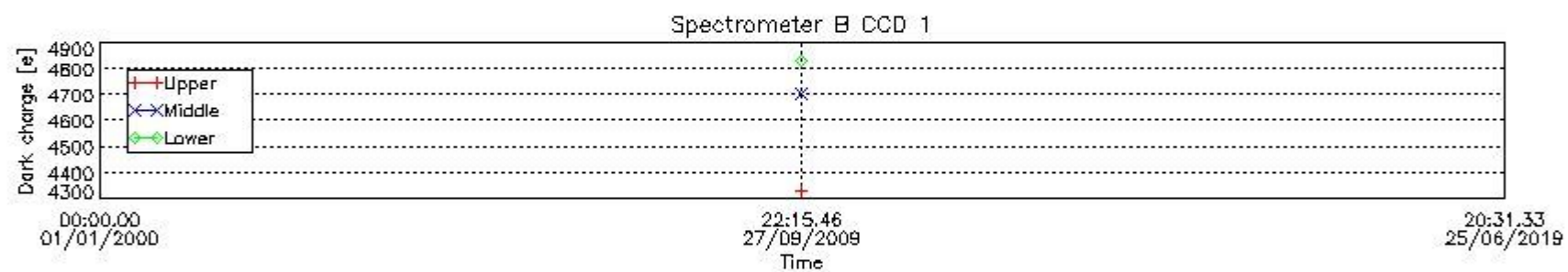
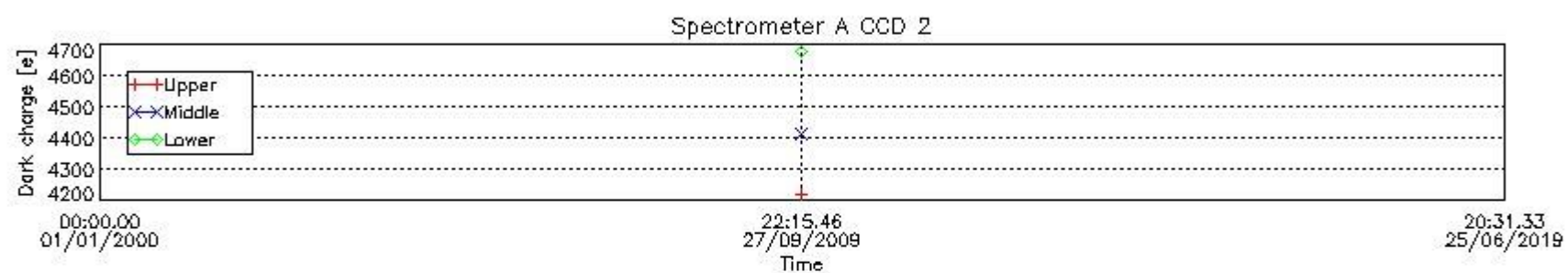
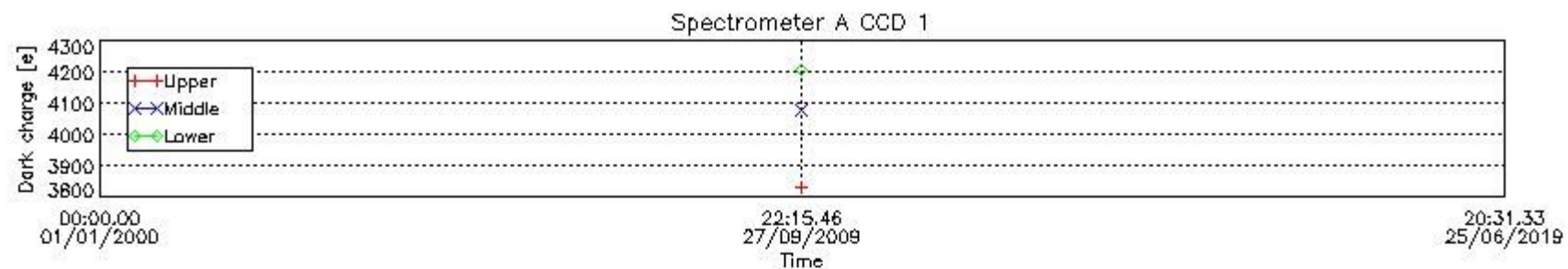
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20090927_211616_000000362082_00487_39619_8780.N1	DC map used

GOM_TRA_1PNPDE20090927_212702_000000362082_00487_39619_8781.N1	DC map used
GOM_TRA_1PNPDE20090927_213115_000000362082_00487_39619_8782.N1	DC map used
GOM_TRA_1PNPDE20090927_213519_000000442082_00487_39619_8783.N1	DC map used
GOM_TRA_1PNPDE20090927_213949_000000342082_00487_39619_8784.N1	DC map used
GOM_TRA_1PNPDE20090927_214115_000000352082_00487_39619_8785.N1	DC map used
GOM_TRA_1PNPDE20090927_220531_000000352082_00487_39619_8786.N1	DC map used
GOM_TRA_1PNPDE20090927_221546_000000402082_00487_39619_8787.N1	DC map used

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



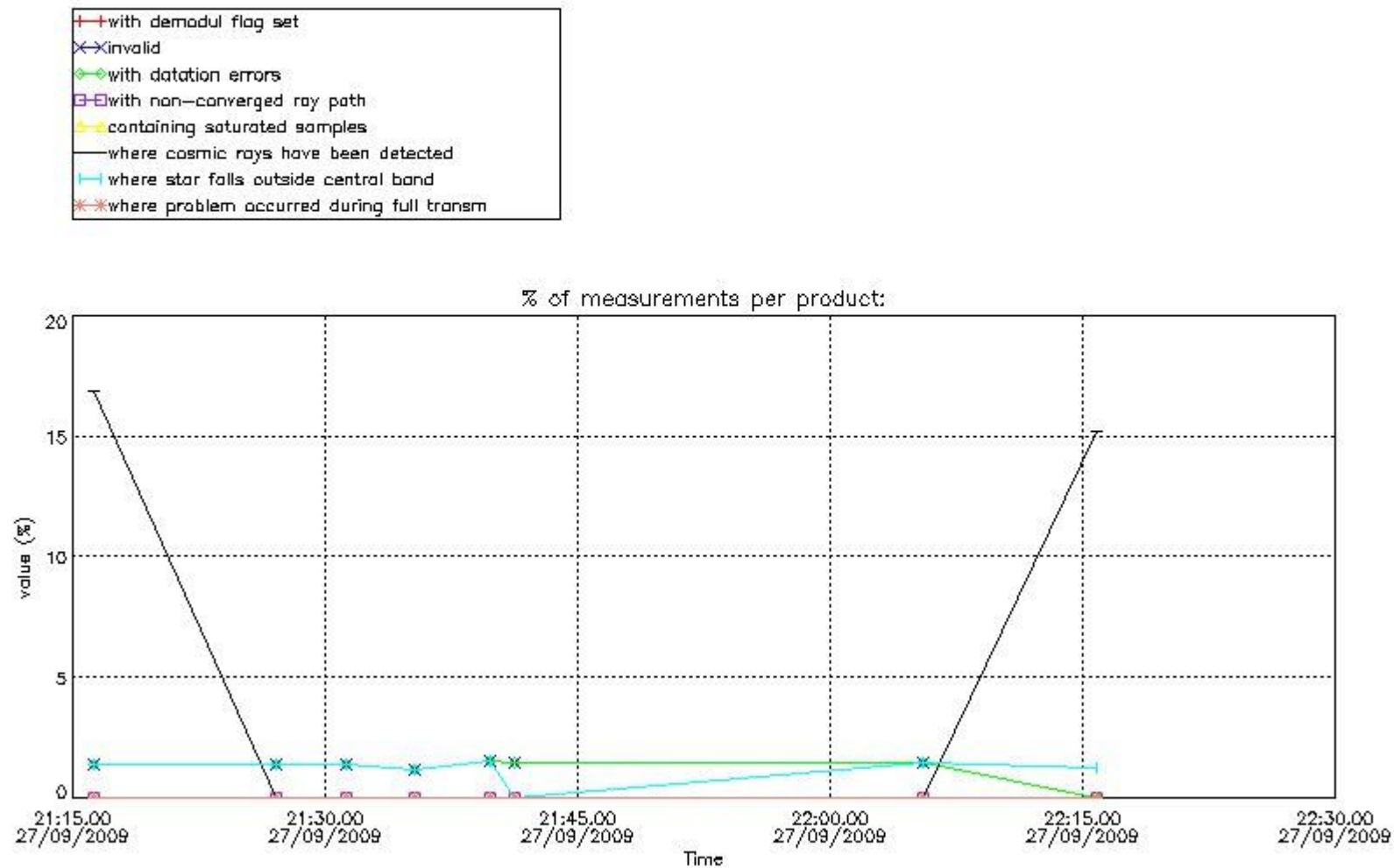
5. Demodulation flag and quality information monitoring

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.

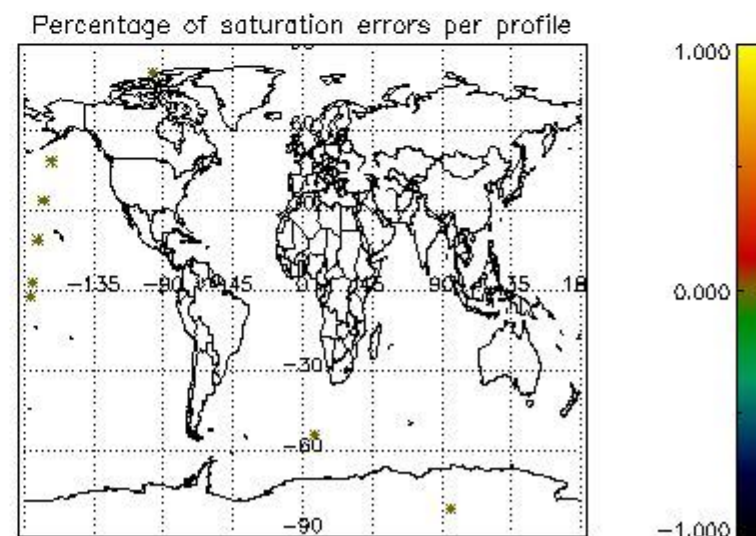
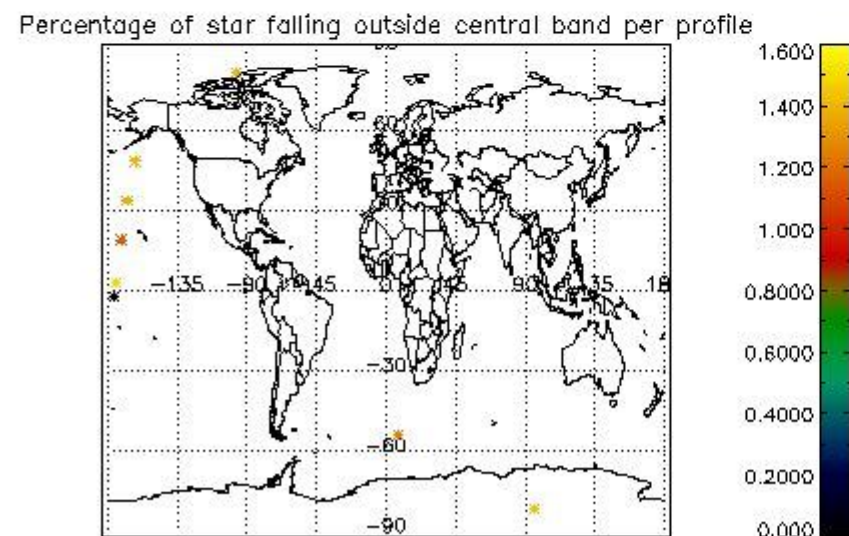
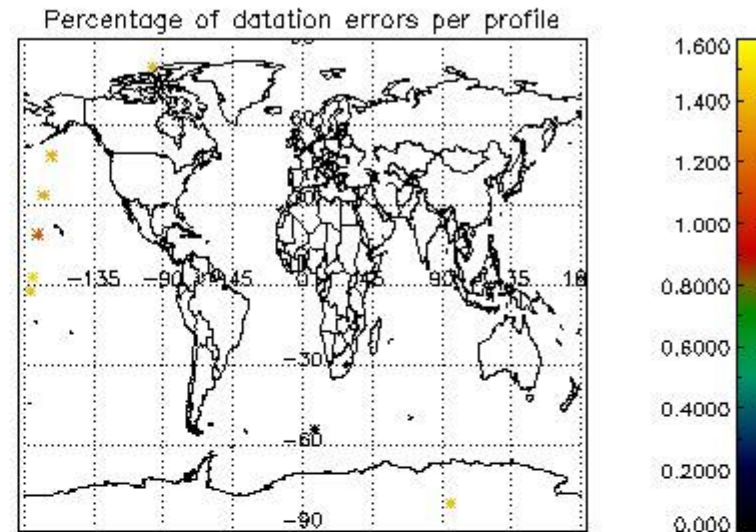
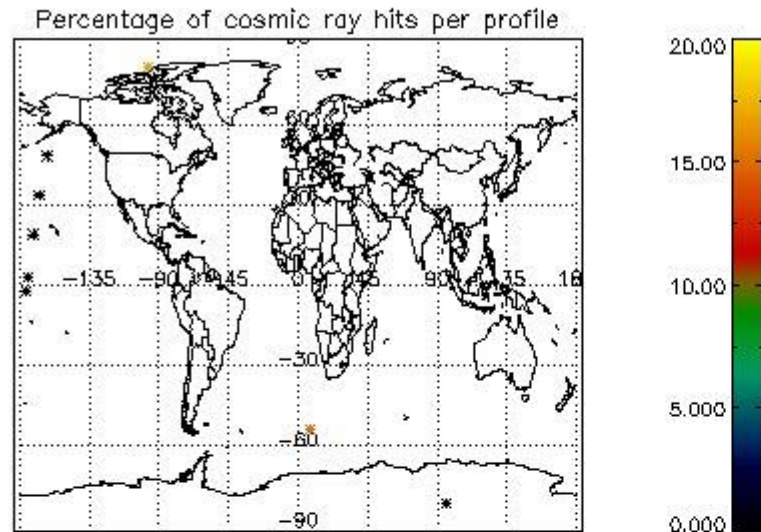
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.5000 %
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)



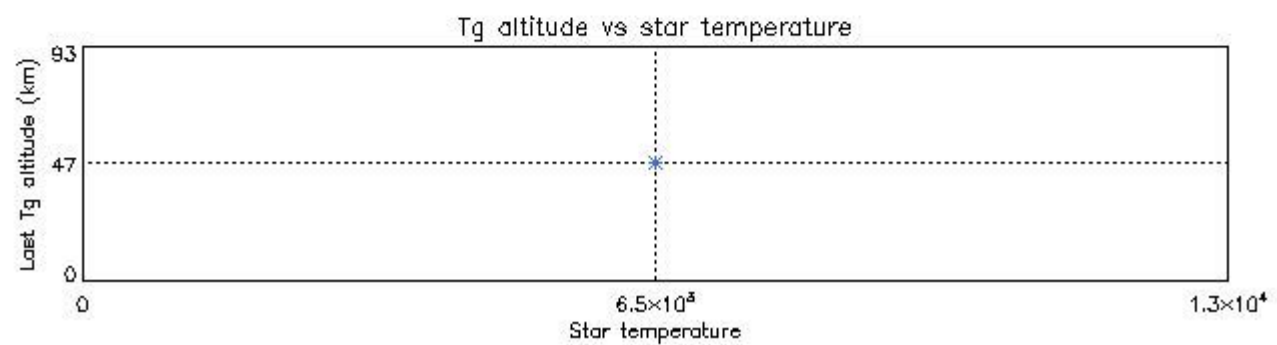
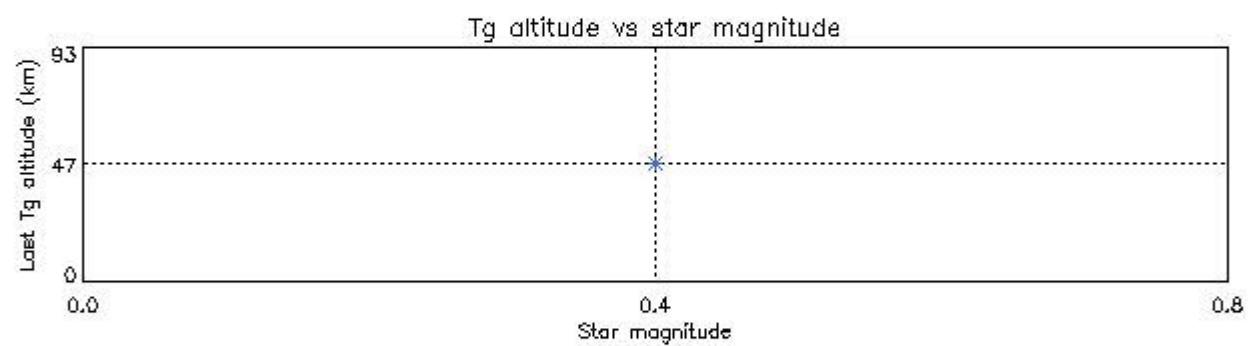
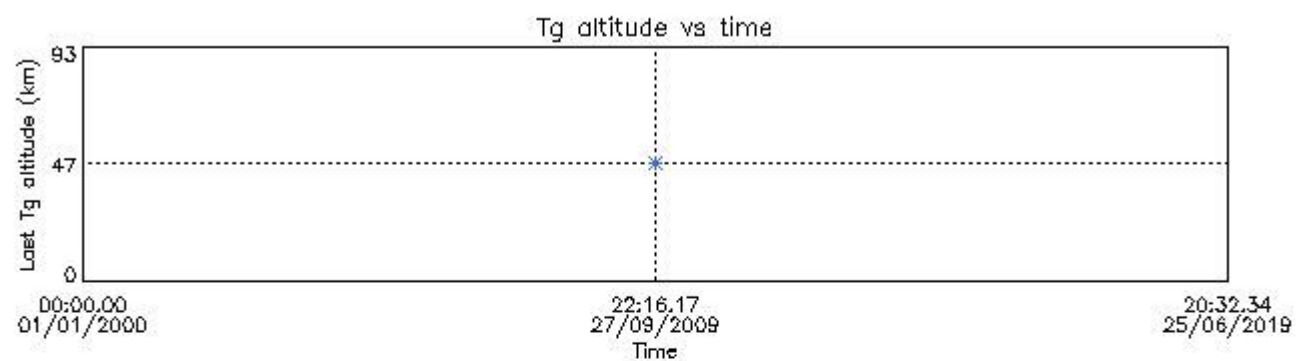
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	46.680	33.206	NaN
St. deviation:	0.0000	1.6186	NaN
Maximum:	46.680	35.643	NaN
Minimum:	46.680	31.553	NaN
Number of data:	1.0000	5.0000	NaN

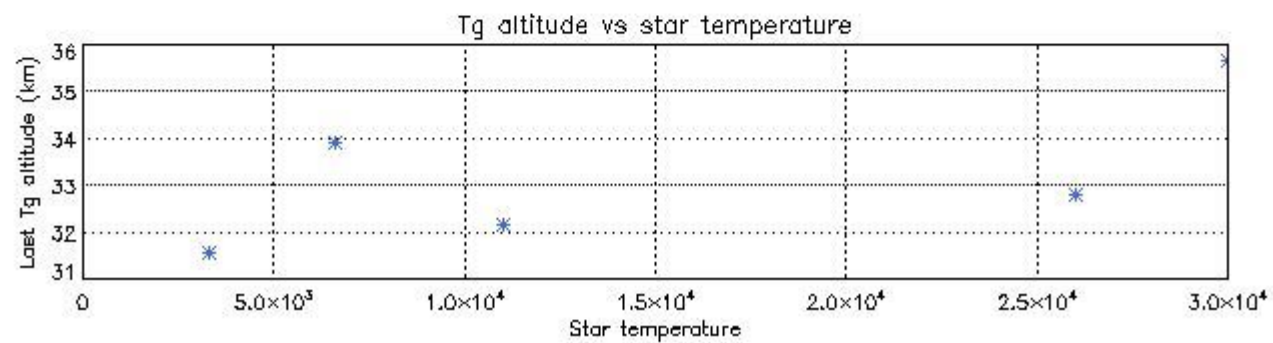
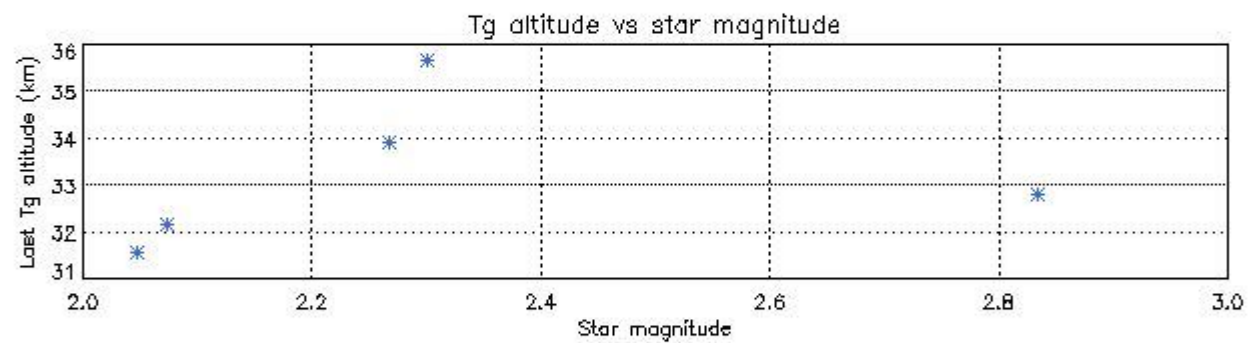
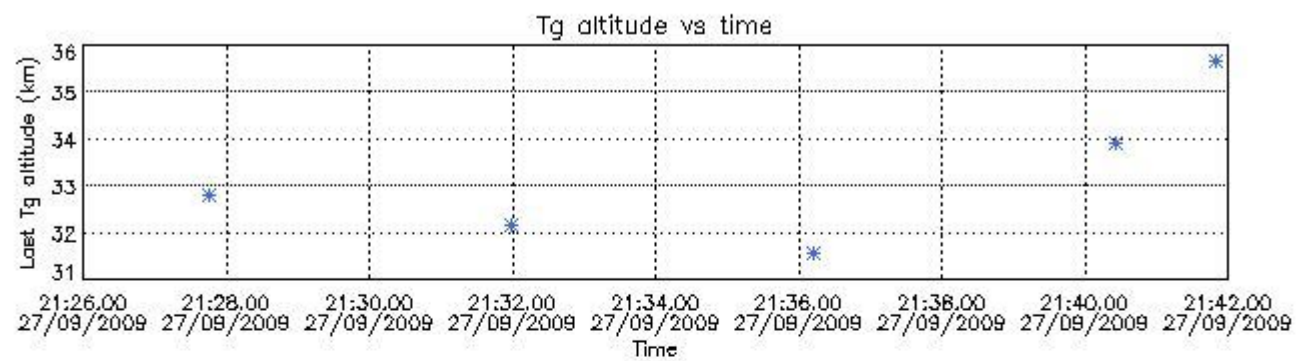
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

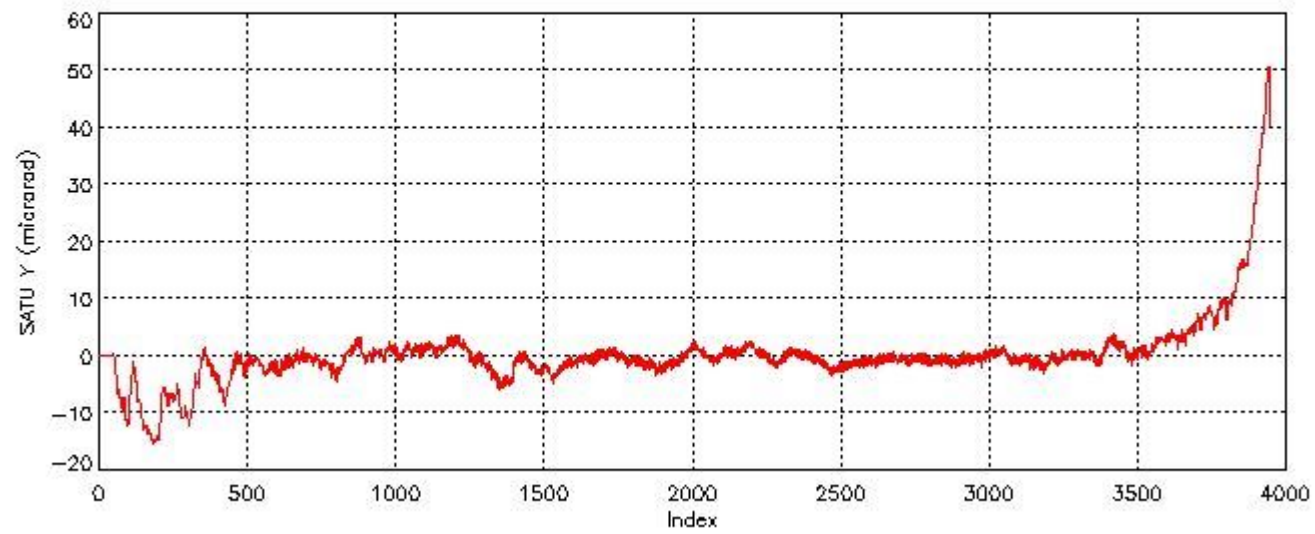
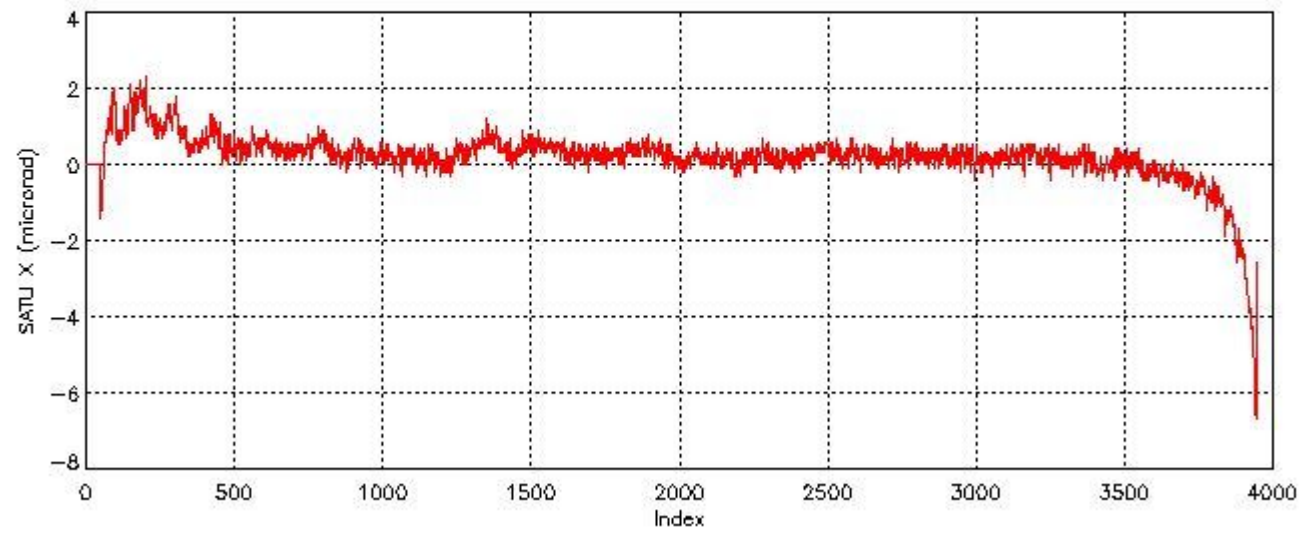


7. Star Acquisition and Tracking Unit (SATU)

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:	0.52152	-2.3686	0.30828	-1.2846
St. deviation:	0.47691	4.2506	1.0567	7.6750
Maximum:	2.3000	3.6000	6.2000	16.800
Minimum:	-1.4000	-15.400	-5.2000	-35.200

Number of data:	1250.0	1250.0	5150.0	5150.0
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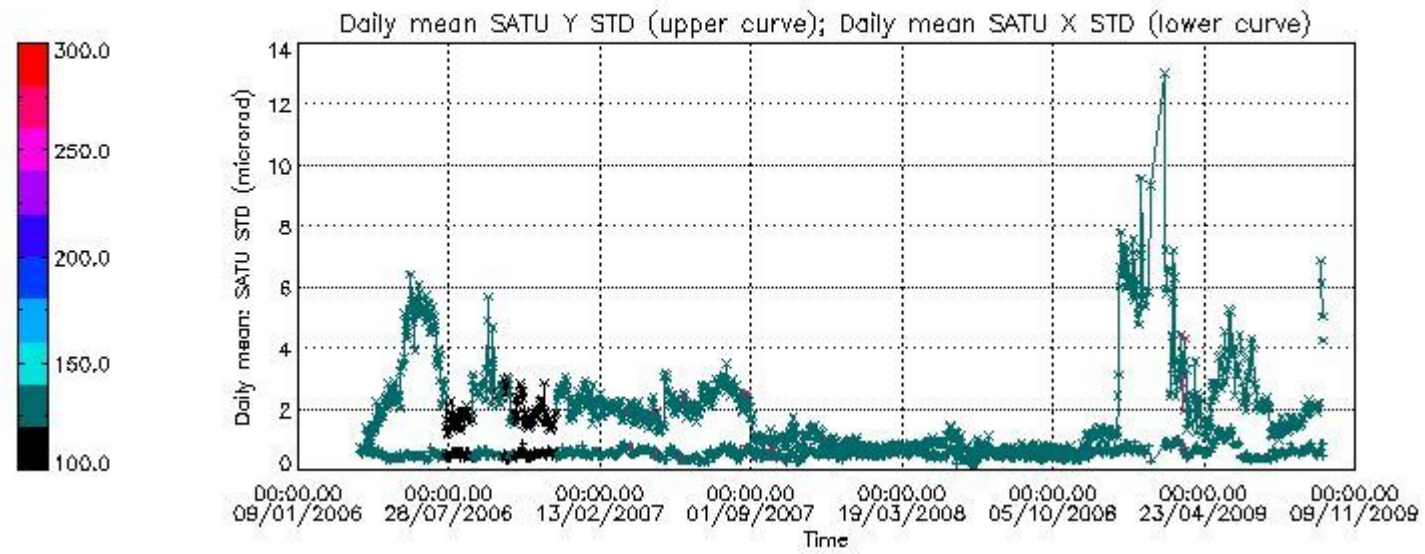
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

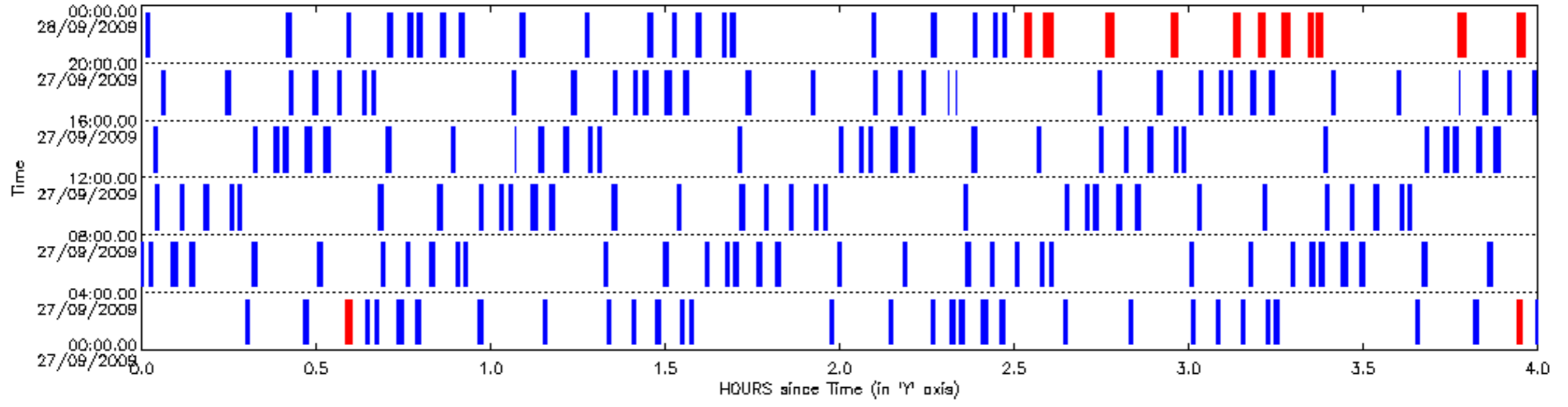
Lower curve: STD of SATU X axis

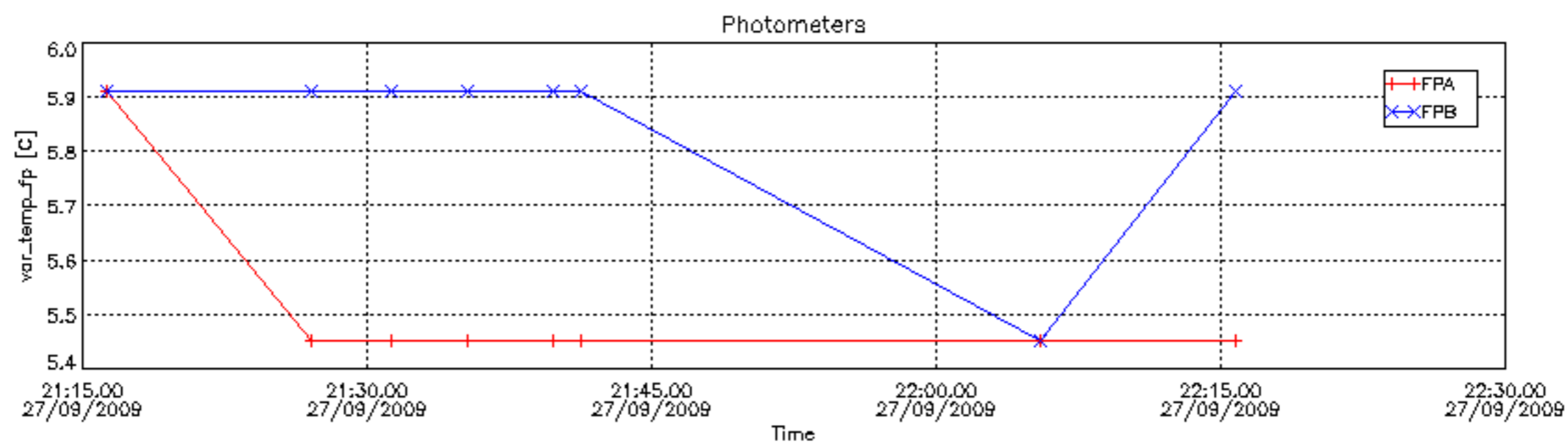
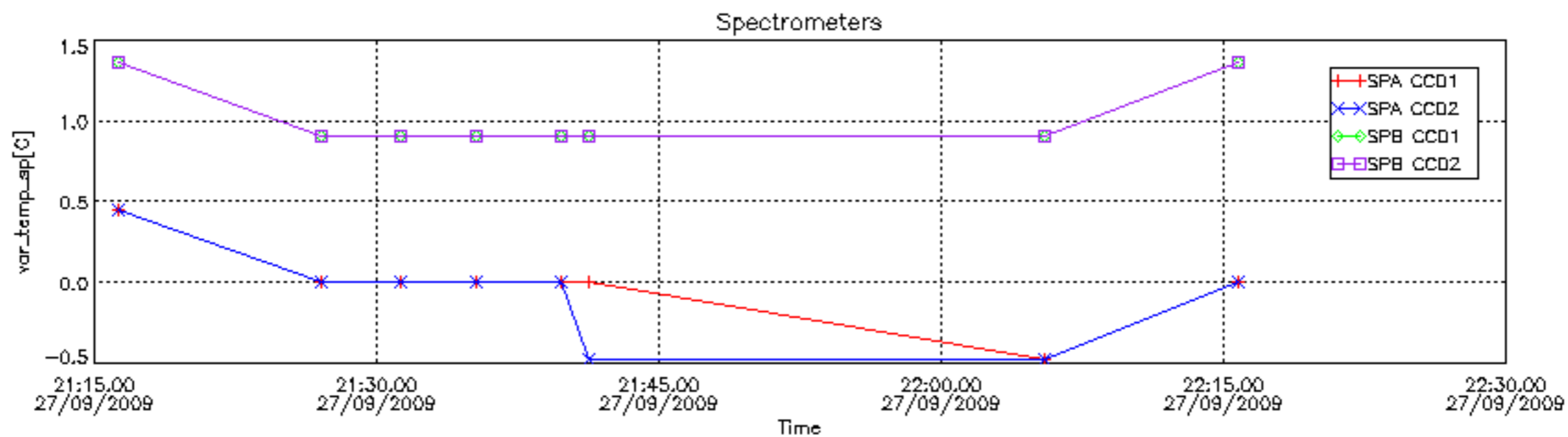


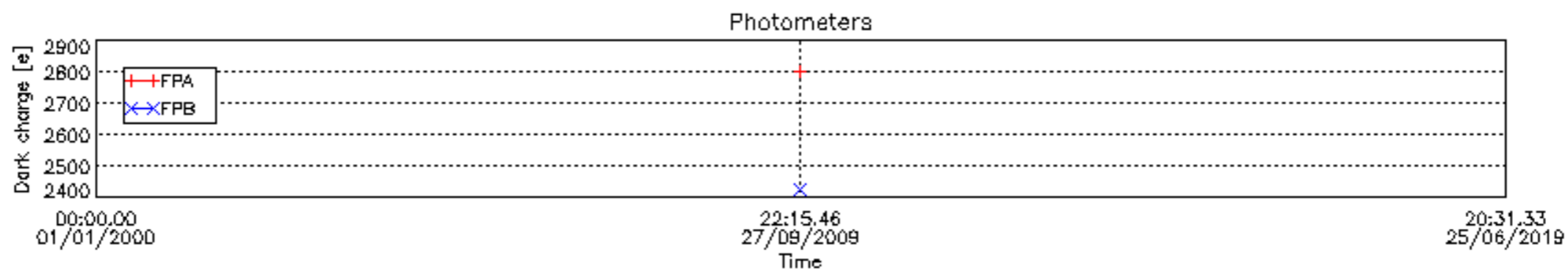
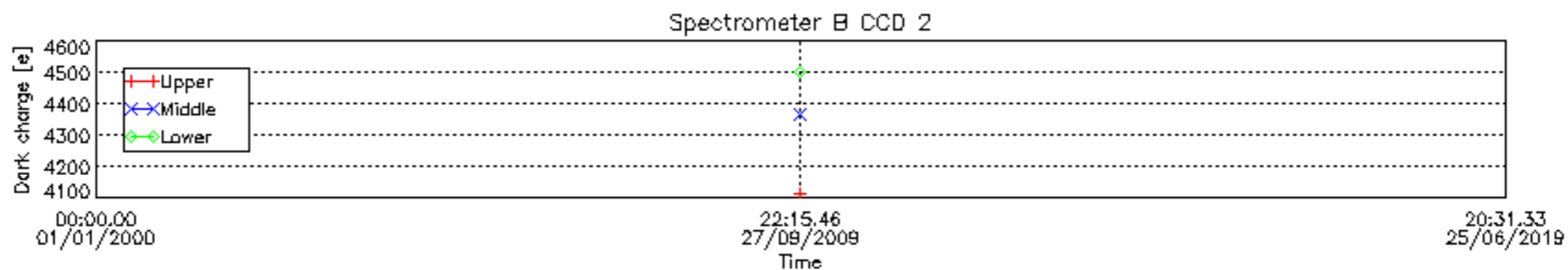
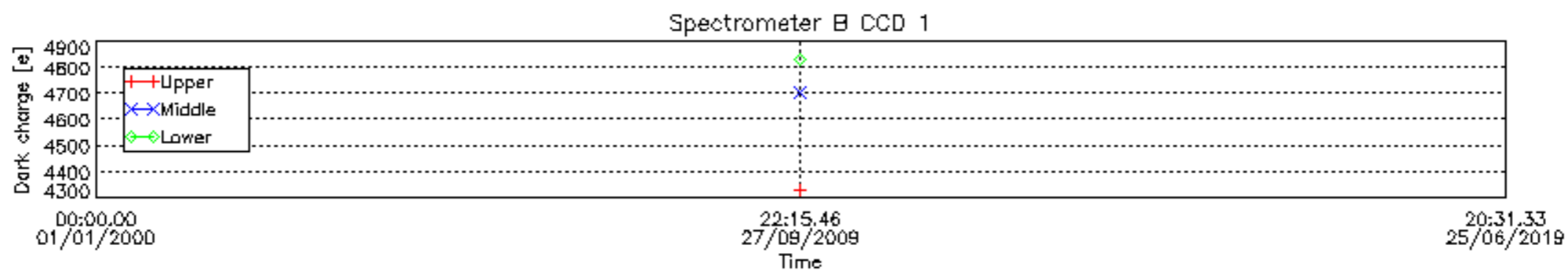
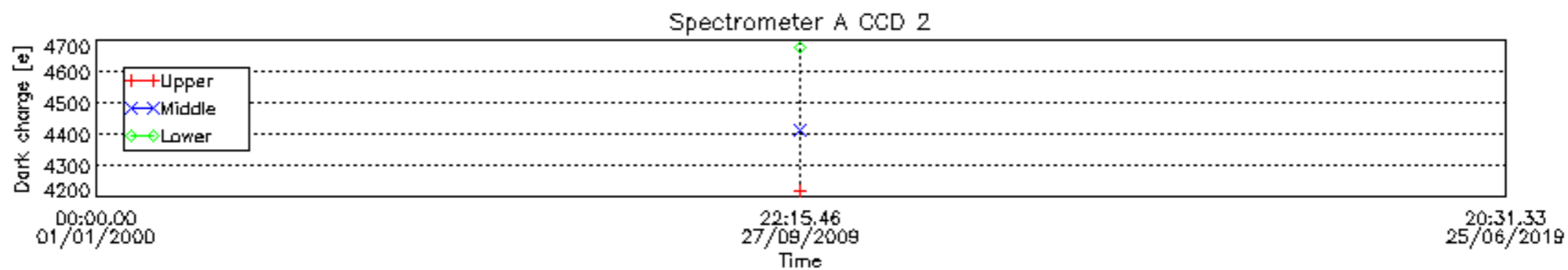
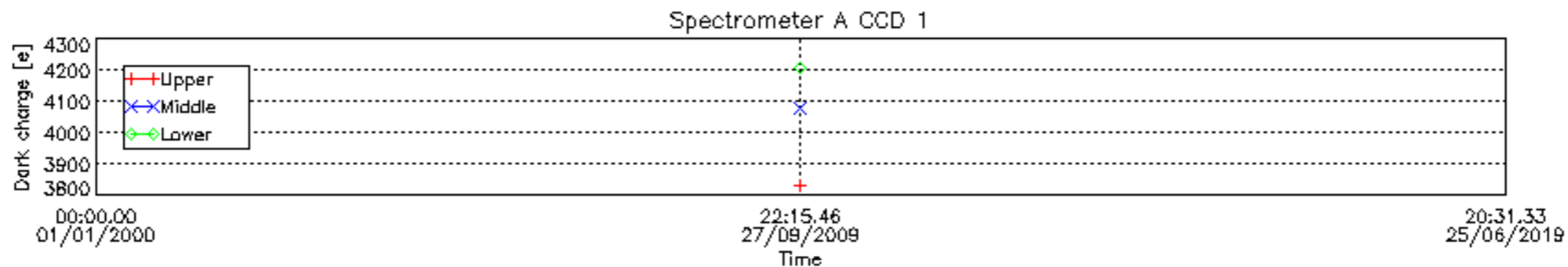
8. Auxiliary Data Files used for the production reported in section 2.4

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.

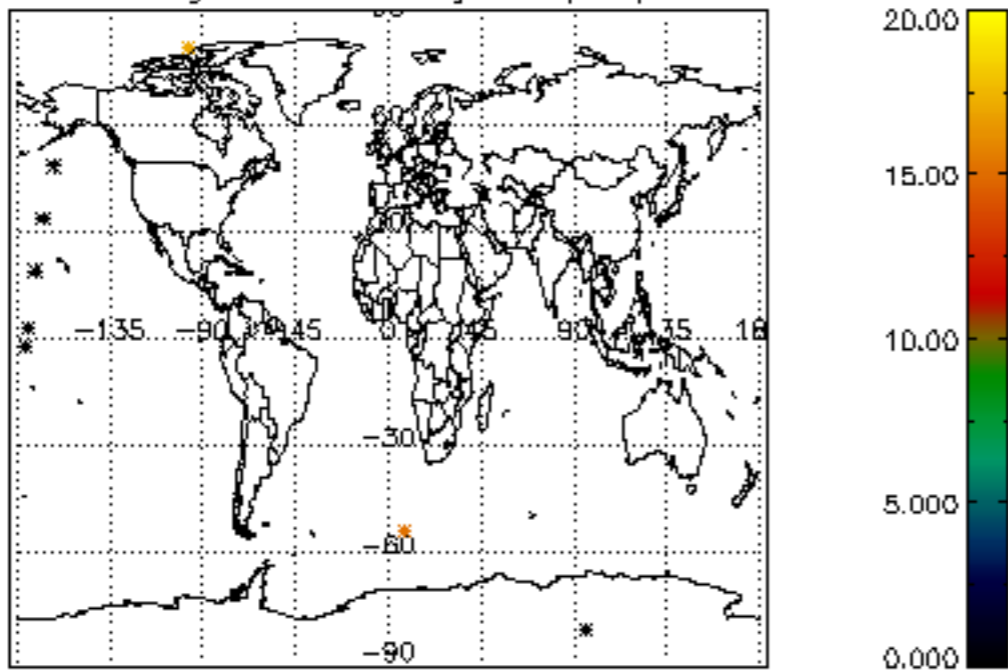
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	27-SEP-2009 21:16:16
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090922_092505_20090920_000000_20100101_000000	1	27-SEP-2009 21:16:16
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	27-SEP-2009 21:16:16
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-SEP-2009 21:16:16
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	27-SEP-2009 21:16:16
ECMWF_FILE	AUX_ECA_AXNECM20090928_062112_20090927_210000_20090928_090000	1	27-SEP-2009 21:16:16
OPTIONAL_ECMWF_FILE	MISSING	1	27-SEP-2009 21:16:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090927_210318_000038252082_00487_39619_8847.N1	1	27-SEP-2009 21:16:16



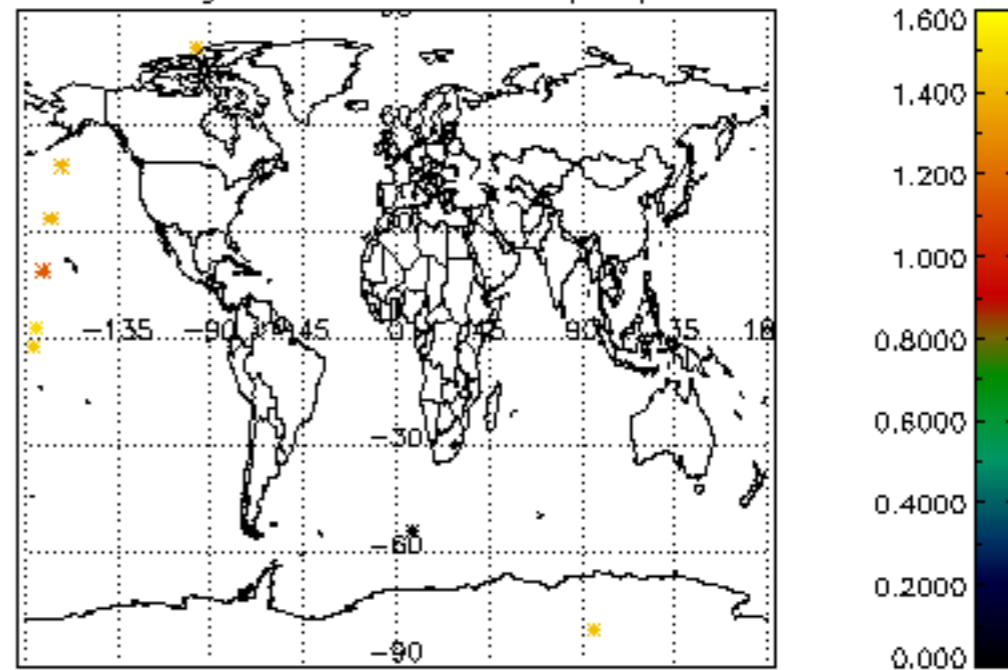




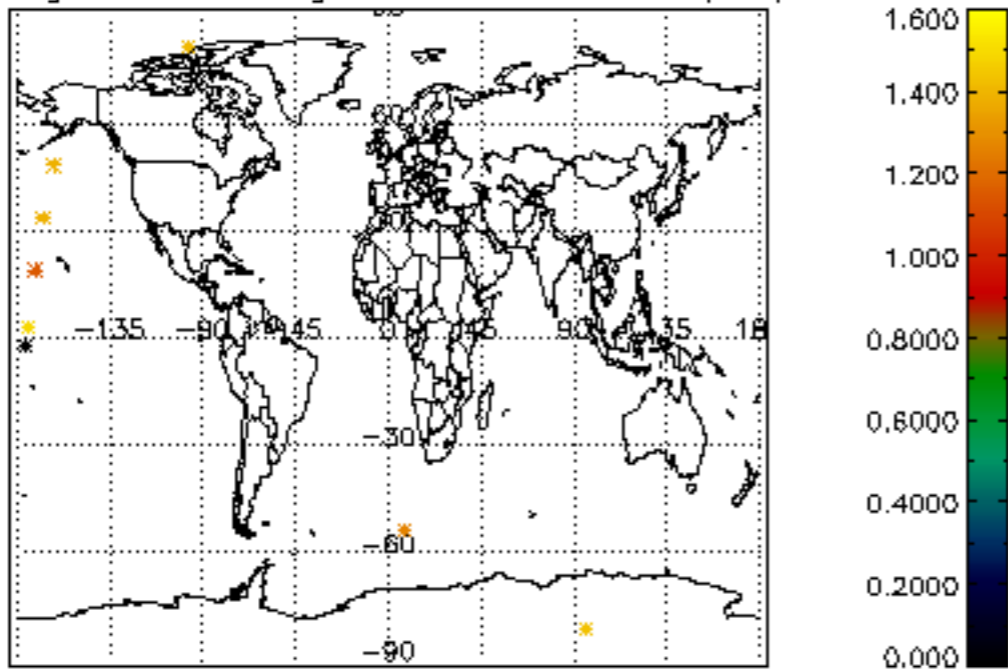
Percentage of cosmic ray hits per profile



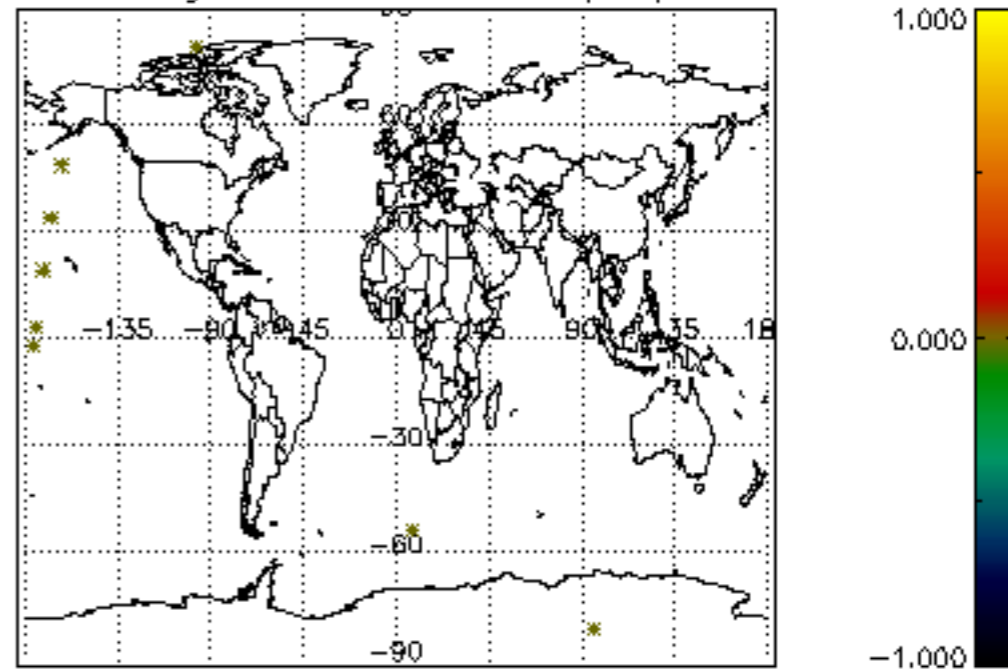
Percentage of datation errors per profile



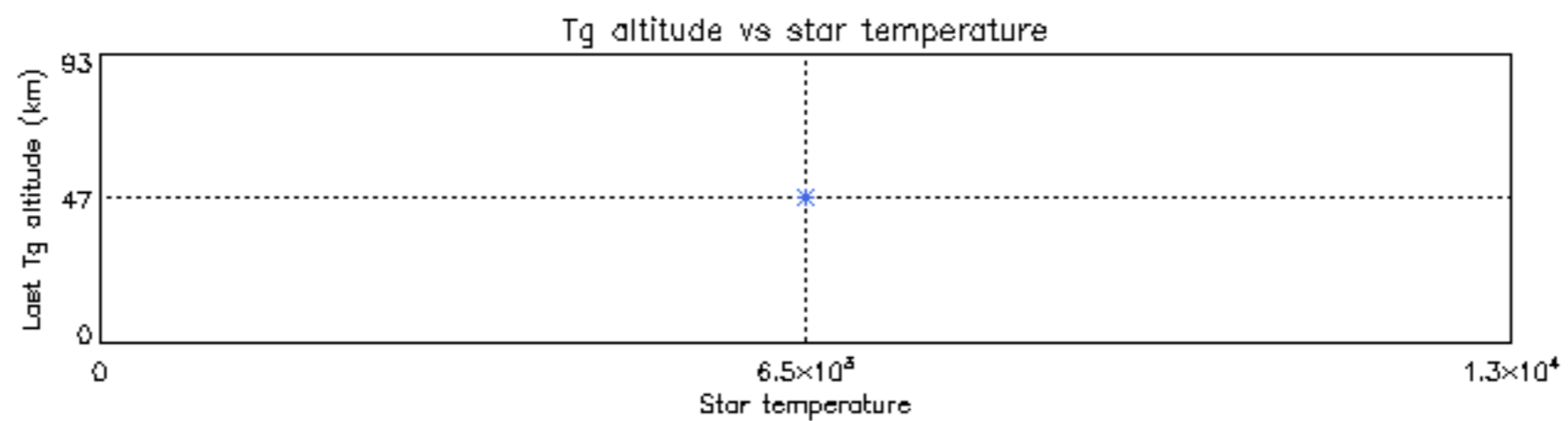
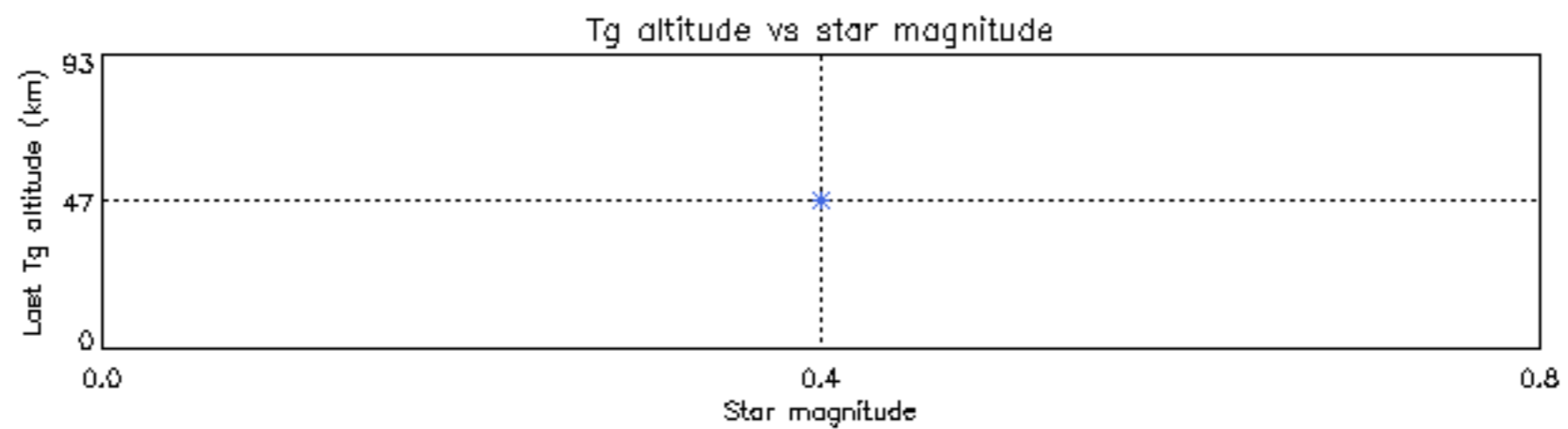
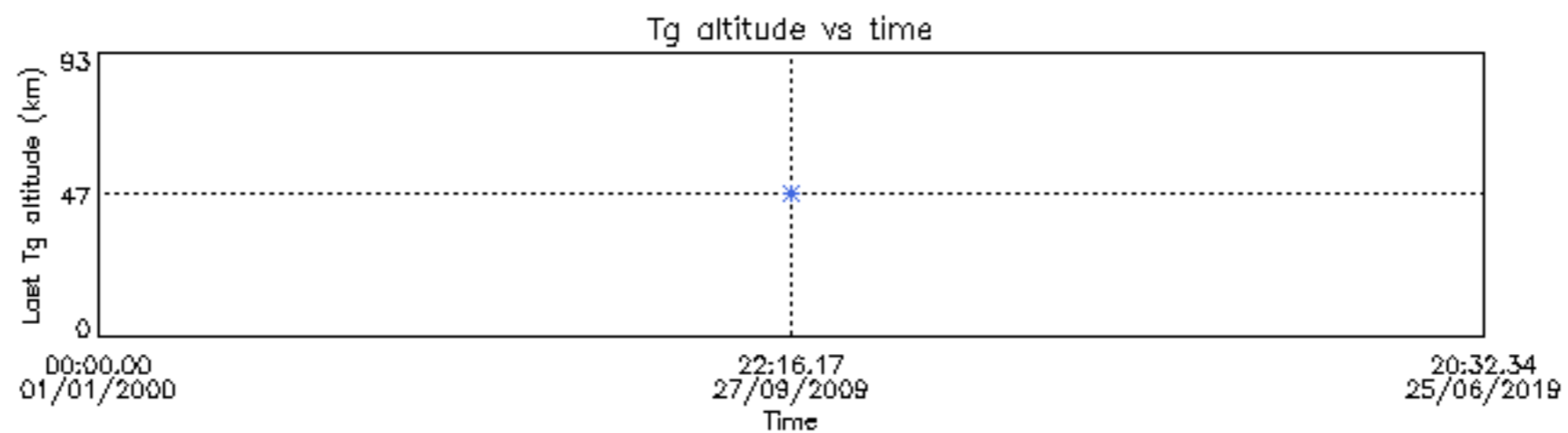
Percentage of star falling outside central band per profile



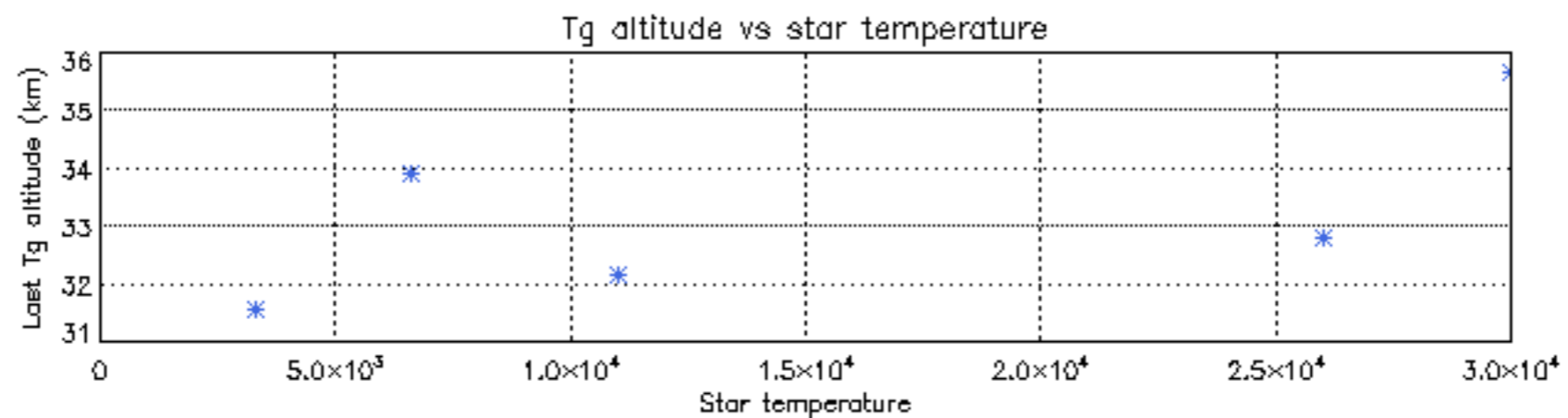
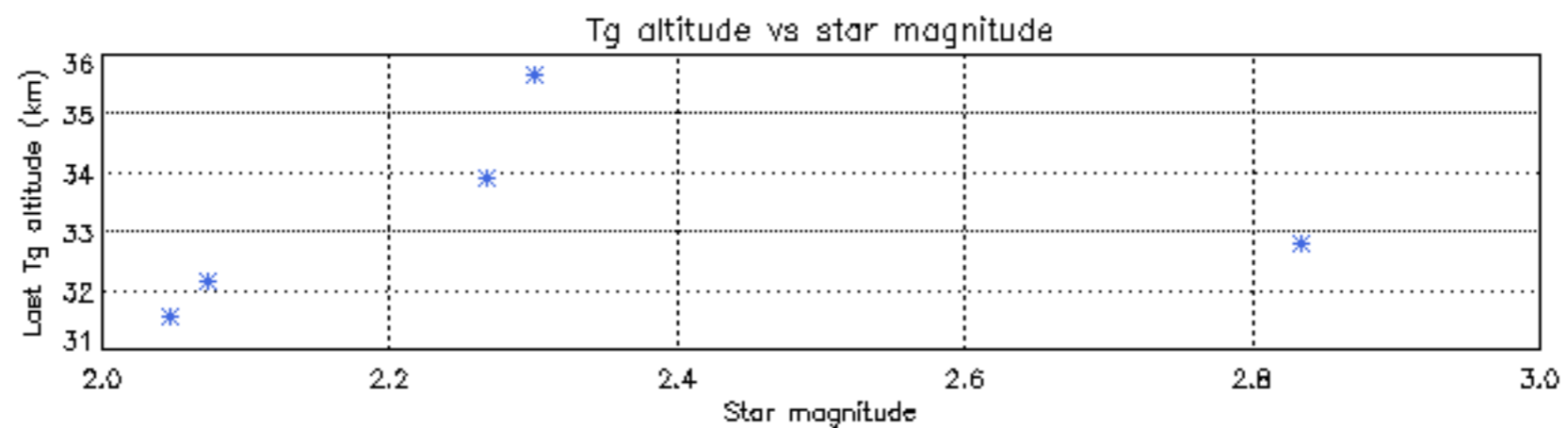
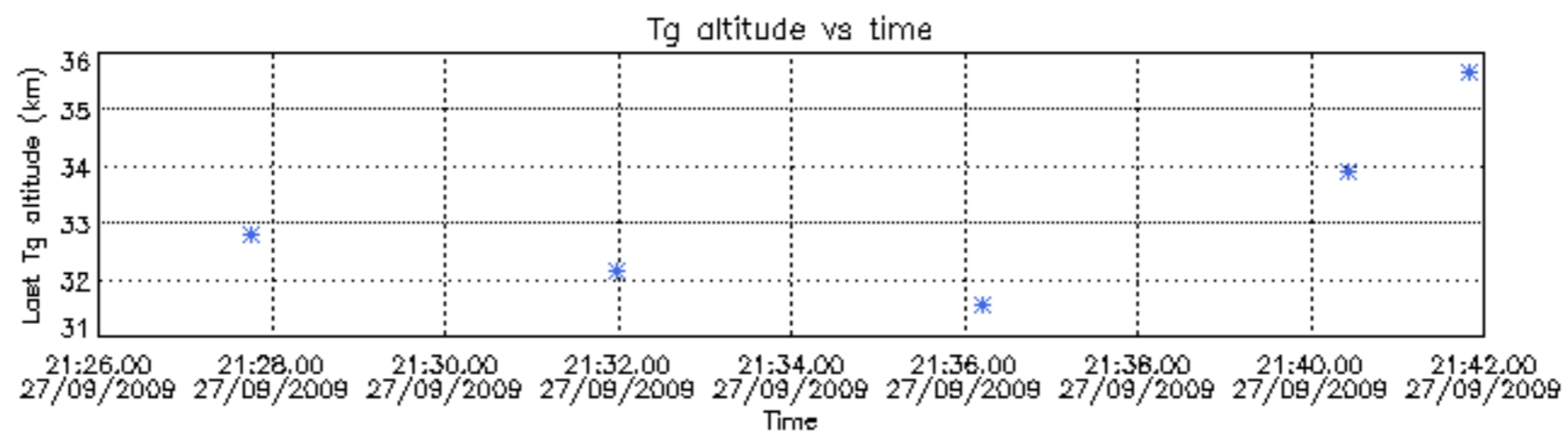
Percentage of saturation errors per profile

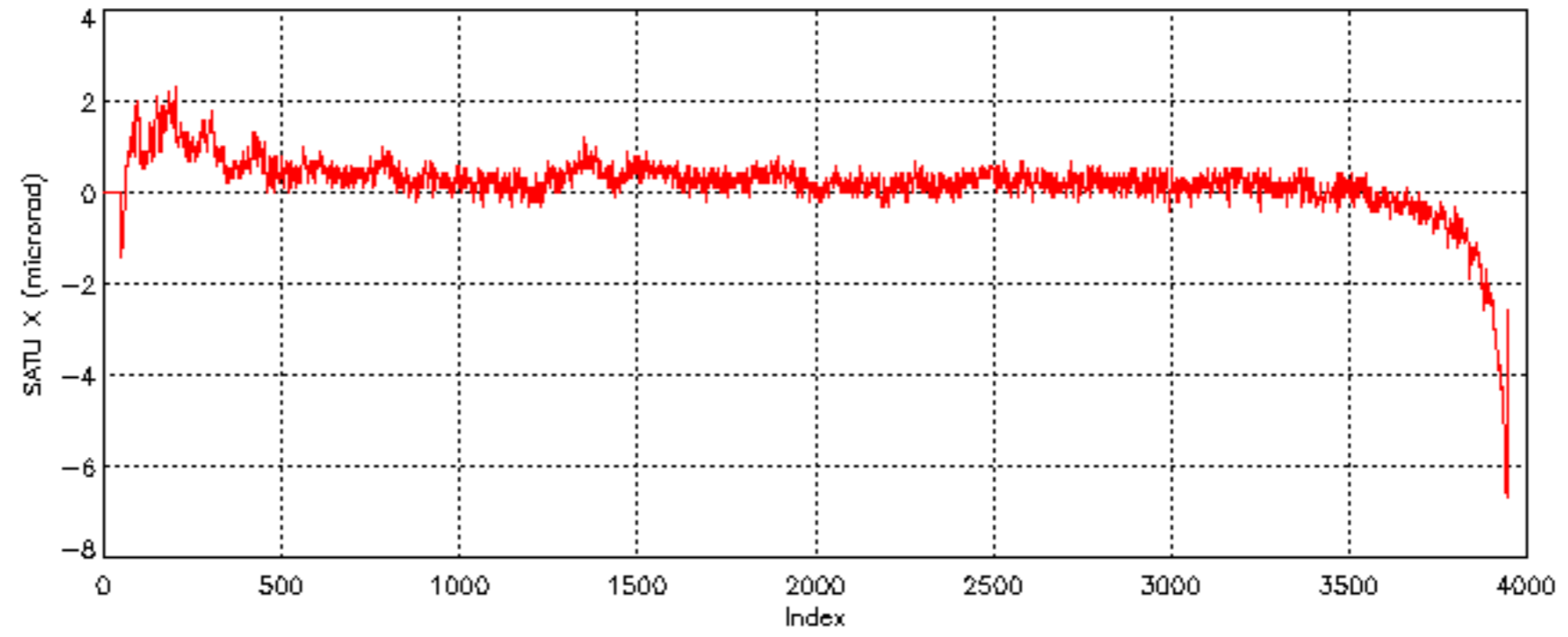


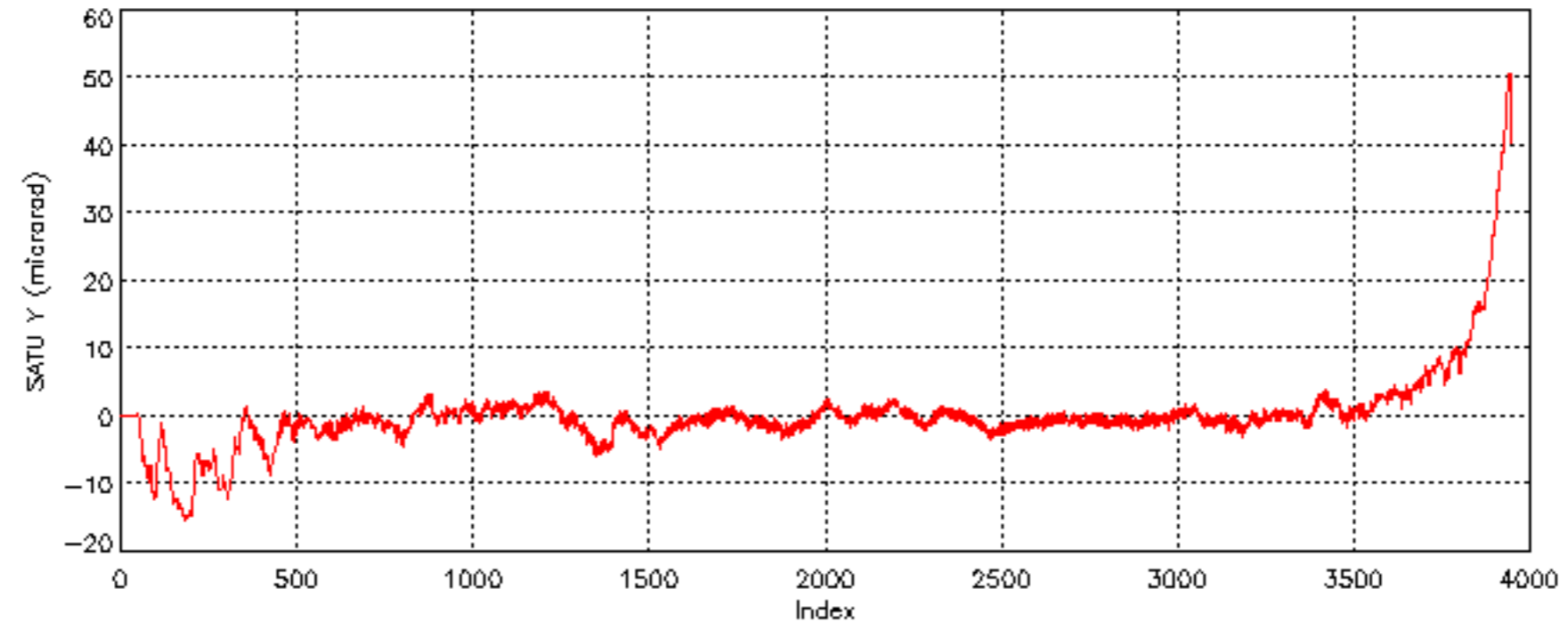
Tangent altitude at which the star is lost

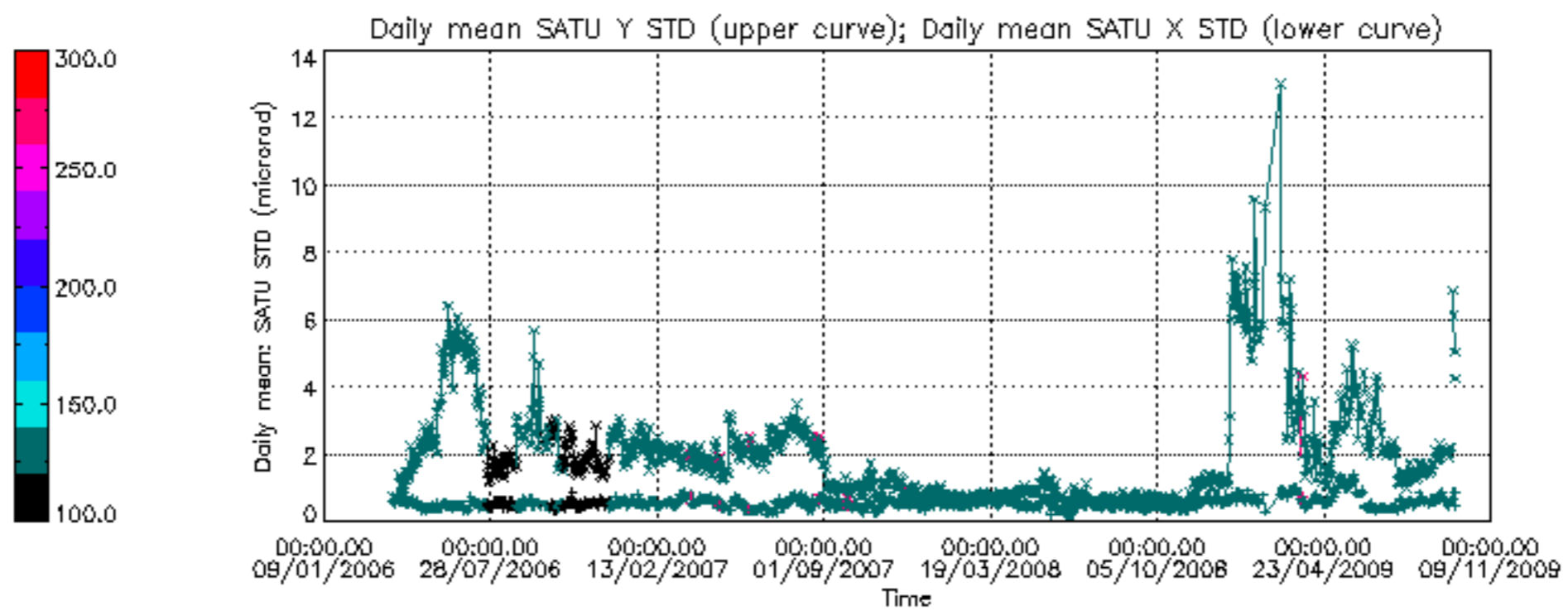


Tangent altitude at which the star is lost









/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
 14; 4687.0; 01-SEP-2009 02:18:40; Dark ; 64.0; 151; 13Mu Gem ; 2.89; 3000;occ; 128; 0;39235
 15; 4792.9; 01-SEP-2009 02:20:26; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;39235

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 2; -715.8; 01-SEP-2009 02:29:13; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;39235
 3; -584.8; 01-SEP-2009 02:31:24; Dark ; 49.5; 47; 2Bet CMa ; 1.98; 28000;occ; 99; 0;39235
 4; -412.2; 01-SEP-2009 02:34:17; Dark ; 52.5; 101; 11Alp Lep ; 2.58; 7000;occ; 105; 0;39235
 5; -236.5; 01-SEP-2009 02:37:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39235
 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
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 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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 3; -1348.6; 01-SEP-2009 03:59:16; Dark ; 53.5; 151; 13Mu Gem ; 2.89; 3000;occ; 107; 0;39236
 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
 6; -714.7; 01-SEP-2009 04:09:50; Dark ; 35.0; 30; 46Eps Ori ; 1.69; 30000;occ; 70; 0;39236
 7; -584.2; 01-SEP-2009 04:12:01; Dark ; 49.0; 47; 2Bet CMa ; 1.98; 28000;occ; 98; 0;39236
 8; -411.4; 01-SEP-2009 04:14:53; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;39236
 9; -235.3; 01-SEP-2009 04:17:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
 13; 2248.7; 01-SEP-2009 04:59:14; Bright; 70.0; 90; 54Alp Peg ; 2.49; 11000;occ; 140; 0;39237
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 15; 3141.8; 01-SEP-2009 05:14:07; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 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
 4; -1242.4; 01-SEP-2009 05:41:38; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;39237
 5; -964.9; 01-SEP-2009 05:46:16; Dark ; 71.5; 14; 58Alp Ori ; 0.87; 3000;occ; 143; 0;39237
 6; -713.5; 01-SEP-2009 05:50:27; Dark ; 35.0; 30; 46Eps Ori ; 1.69; 30000;occ; 70; 0;39237
 7; -583.2; 01-SEP-2009 05:52:38; Dark ; 48.0; 47; 2Bet CMa ; 1.98; 28000;occ; 96; 0;39237
 8; -409.9; 01-SEP-2009 05:55:31; Dark ; 58.5; 101; 11Alp Lep ; 2.58; 7000;occ; 117; 0;39237
 9; -234.2; 01-SEP-2009 05:58:27; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39237
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 11; 964.2; 01-SEP-2009 06:18:25; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;39238
 12; 1330.7; 01-SEP-2009 06:24:32; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;39238
 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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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
16; 5330.6; 02-SEP-2009 00:17:11; Dark ; 63.5; 33; 50Zet Ori ; 1.77; 30000;occ; 127; 0;39248
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5; -964.1; 01-SEP-2009 07:26:53; Dark ; 70.0; 14; 58Alp Ori ; 0.87; 3000;occ; 140; 0;39238
6; -712.2; 01-SEP-2009 07:31:05; Dark ; 27.0; 30; 46Eps Ori ; 1.69; 30000;occ; 54; 0;39238
7; -582.7; 01-SEP-2009 07:33:14; Dark ; 47.5; 47; 2Bet CMA ; 1.98; 28000;occ; 95; 0;39238
8; -408.8; 01-SEP-2009 07:36:08; Dark ; 54.0; 101; 11Alp Lep ; 2.58; 7000;occ; 108; 0;39238
9; -233.0; 01-SEP-2009 07:39:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39238
10; 492.2; 01-SEP-2009 07:51:09; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39239
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3; 3140.5; 01-SEP-2009 08:35:17; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;39239
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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9; 5072.7; 01-SEP-2009 09:07:29; Dark ; 69.5; 14; 58Alp Ori ; 0.87; 3000;occ; 139; 0;39239
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11; 5454.1; 01-SEP-2009 09:13:51; Dark ; 46.5; 47; 2Bet CMA ; 1.98; 28000;occ; 93; 0;39239
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 5; 4154.3; 01-SEP-2009 10:32:47; Bright; 63.5; 6; 13Alp Aur ; 0.08; 3400;occ; 127; 0;39240
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13; 5805.2; 01-SEP-2009 11:00:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39240
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13; 5997.7; 13-SEP-2009 11:26:29; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39412
14; 6726.8; 13-SEP-2009 11:38:38; Dark ; 56.0; 157; The1Eri ; 2.91; 9300;occ; 112; 0;39412
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 5; 3155.4; 13-SEP-2009 12:19:42; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39413
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11; 5654.5; 13-SEP-2009 13:01:21; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;39413
12; 5874.0; 13-SEP-2009 13:05:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39413
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 4; 2561.8; 13-SEP-2009 13:50:24; Bright; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;39414
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 7; 4476.9; 13-SEP-2009 14:22:20; Bright; 61.0; 24; 66Alp Gem ; 1.58; 10200;occ; 122; 0;39414
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 4; 2561.0; 13-SEP-2009 15:30:59; Bright; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;39415
 5; 3042.8; 13-SEP-2009 15:39:01; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;39415
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 7; 4174.7; 13-SEP-2009 15:57:53; Bright; 55.5; 42; 34Bet Aur ; 1.90; 10200;occ; 111; 0;39415
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12; 5656.2; 13-SEP-2009 16:22:35; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;39415
13; 5875.9; 13-SEP-2009 16:26:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39415
14; 6001.3; 13-SEP-2009 16:28:20; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;39415
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6; 3153.8; 13-SEP-2009 17:21:28; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39416
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4; 2559.5; 13-SEP-2009 18:52:10; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;39417
5; 3041.8; 13-SEP-2009 19:00:12; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39417
6; 3153.0; 13-SEP-2009 19:02:03; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39417
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4; -28.5; 14-SEP-2009 00:51:26; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;39420
5; 699.4; 14-SEP-2009 01:03:33; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39421
6; 1523.3; 14-SEP-2009 01:17:17; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;39421
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12; 4172.8; 14-SEP-2009 02:01:27; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;39421
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6; 5062.6; 22-SEP-2009 18:10:30; Dark ; 63.0; 8; 10Alp CMi ; 0.40; 6500;occ; 126; 0;39545
7; 5668.0; 22-SEP-2009 18:20:36; Dark ; 75.5; 1; 9Alp CMA ; -1.44; 11000;occ; 151; 0;39545
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4; 2987.5; 22-SEP-2009 19:16:31; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39546
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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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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
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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
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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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5; 19.1; 26-SEP-2009 04:36:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39595
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7; 861.6; 26-SEP-2009 04:50:25; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;39595
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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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4; 2970.0; 26-SEP-2009 08:46:45; Bright; 2.0; 74; 11Bet Cas ; 2.27; 6600;occ; 4; 0;39597
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