

GOMOS Daily Report 19-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 04:44:18
Data source version	GOMOS/5.00
Start time of products	19SEP2009 00:07:15
Stop time of products	19SEP2009 23:48:23
Store outputs in DB	Yes
Nb of level 1b prods	61
Nb of prods with errors	0

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

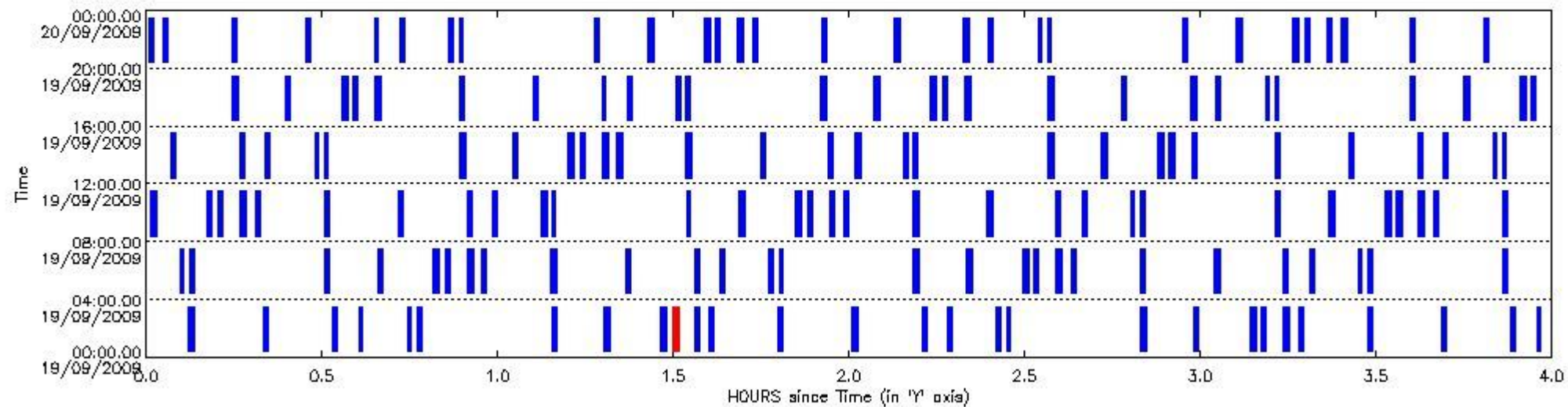
2.1 Level 0 products arrived in PCF (see template [here](#))

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).

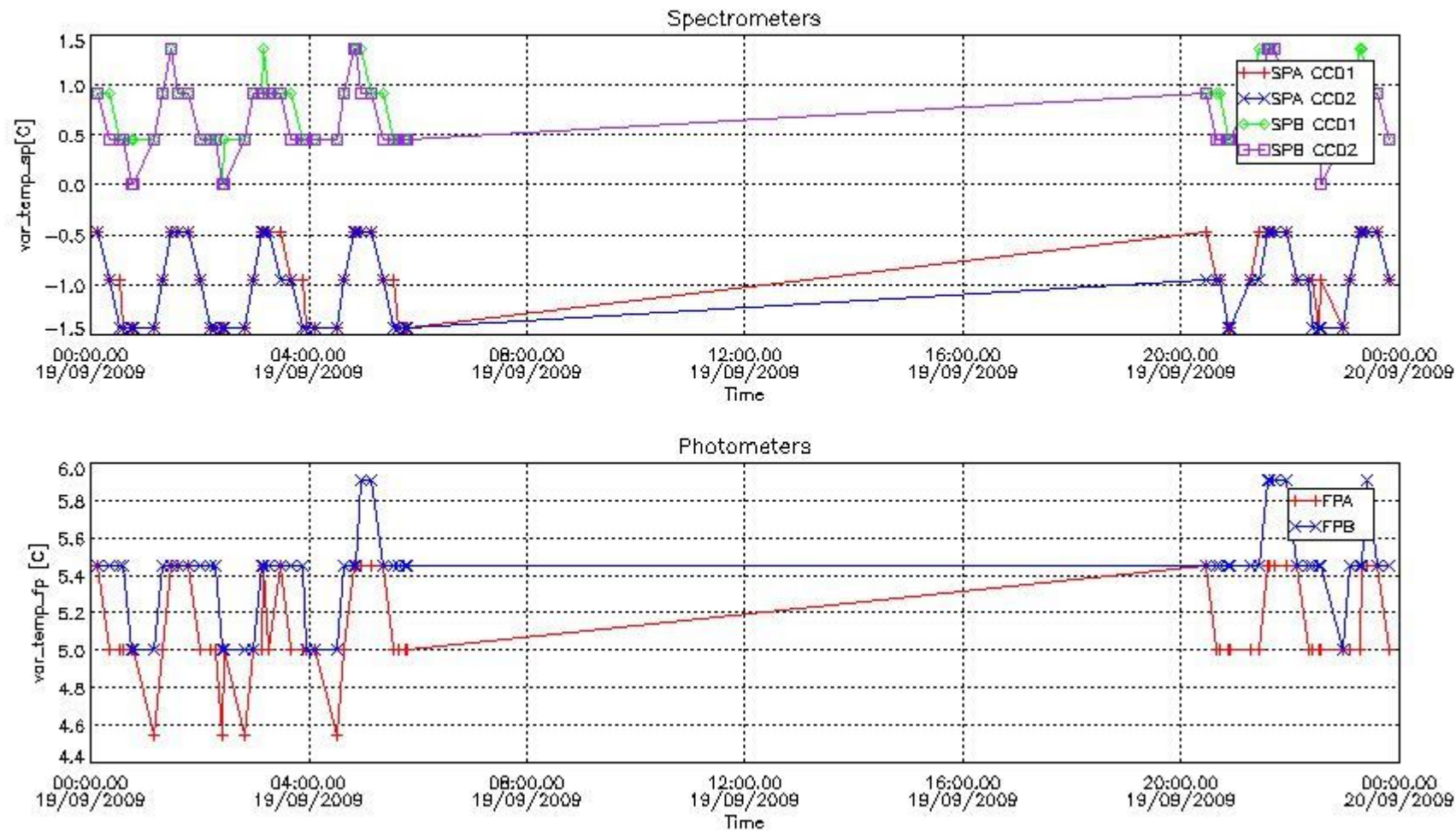


2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
19-SEP-2009 01:29:49	21EpsCMa	23	39492

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_1PNPDE20090919_000715_000000532082_00360_39492_0131.N1	19-SEP-2009 00:07:15	Dark	53.000	157	The1Eri	2.9060	9300.0	106	39492	No
2	GOM_TRA_1PNPDE20090919_001958_000000542082_00360_39492_0132.N1	19-SEP-2009 00:19:58	Twilight_and_stray	53.500	52	16Bet Cet	2.0370	4500.0	107	39492	No
3	GOM_TRA_1PNPDE20090919_003149_000000462082_00360_39492_0133.N1	19-SEP-2009 00:31:49	Bright	46.000	140	88Gam Peg	2.8340	26000.	92	39492	No
4	GOM_TRA_1PNPDE20090919_003613_000000452082_00360_39492_0134.N1	19-SEP-2009 00:36:13	Bright	44.500	58	21Alp And	2.0730	11000.	89	39492	No
5	GOM_TRA_1PNPDE20090919_004432_000000402082_00360_39492_0135.N1	19-SEP-2009 00:44:32	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	39492	No
6	GOM_TRA_1PNPDE20090919_004615_000000422082_00360_39492_0136.N1	19-SEP-2009 00:46:15	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	39492	No
7	GOM_TRA_1PNPDE20090919_010912_000000492082_00360_39492_0137.N1	19-SEP-2009 01:09:12	Bright	48.500	24	66Alp Gem	1.5800	10200.	97	39492	No
8	GOM_TRA_1PNPDE20090919_011812_000000662082_00360_39492_0138.N1	19-SEP-2009 01:18:12	Dark	65.500	8	10Alp CMi	0.40000	6500.0	131	39492	No
9	GOM_TRA_1PNPDE20090919_012744_000000662082_00360_39492_0267.N1	19-SEP-2009 01:27:44	Dark	66.000	1	9Alp CMa	-1.4400	11000.	132	39492	No
10	GOM_TRA_1PNPDE20090919_013602_000000522082_00361_39493_0268.N1	19-SEP-2009 01:36:02	Dark	52.000	108	Alp Col	2.6520	15200.	104	39493	No



4. Overview of dark signal processing per product

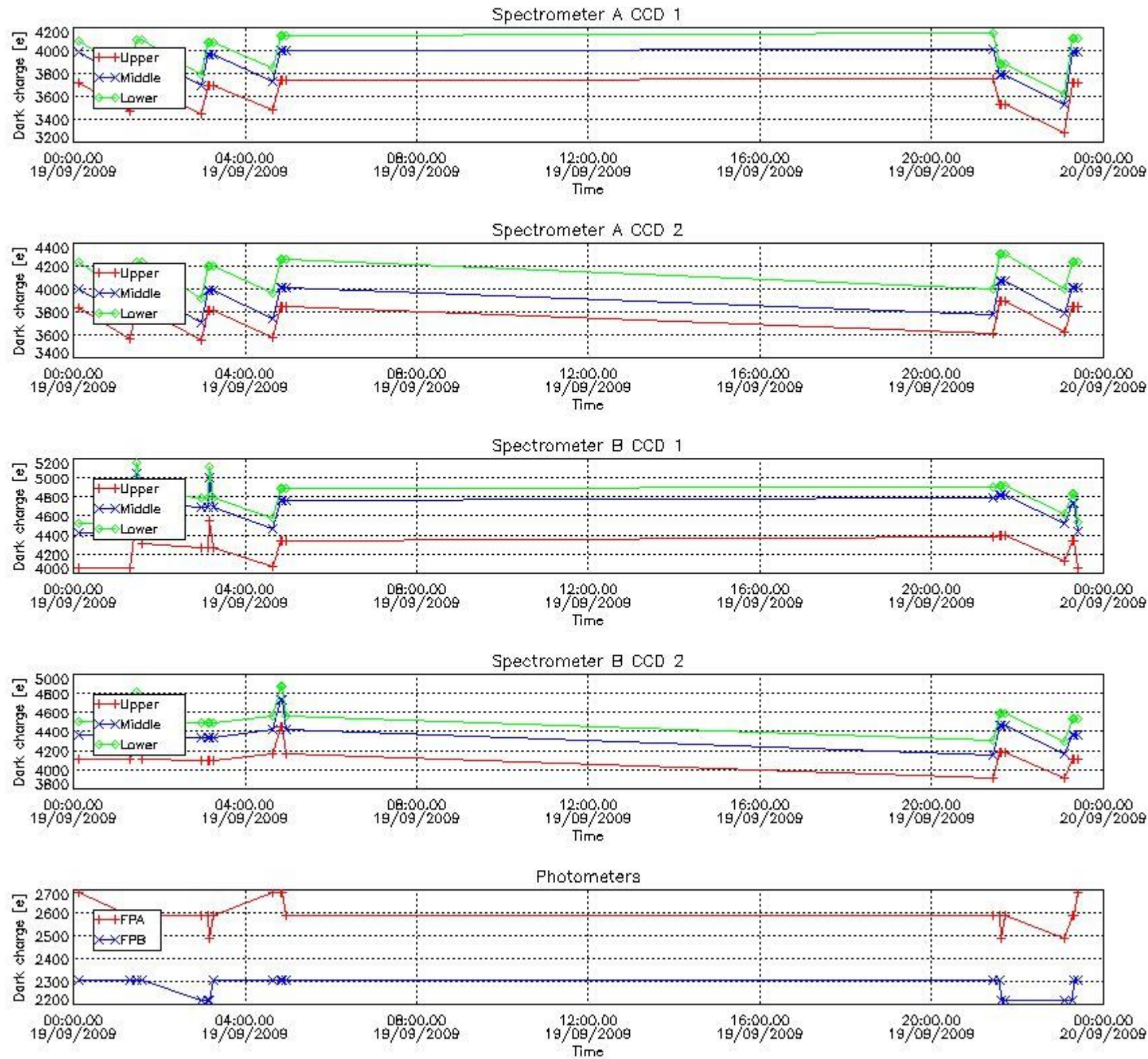
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090919_202711_000000552082_00372_39504_1127.N1	DC map used
GOM_TRA_1PNPDE20090919_203854_000000462082_00372_39504_1128.N1	DC map used
GOM_TRA_1PNPDE20090919_204317_000000452082_00372_39504_1129.N1	DC map used
GOM_TRA_1PNPDE20090919_205139_000000412082_00372_39504_1130.N1	DC map used
GOM_TRA_1PNPDE20090919_205320_000000422082_00372_39504_1131.N1	DC map used
GOM_TRA_1PNPDE20090919_211625_000000482082_00372_39504_1132.N1	DC map used
GOM_TRA_1PNPDE20090919_212531_000000672082_00372_39504_1133.N1	DC map used

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



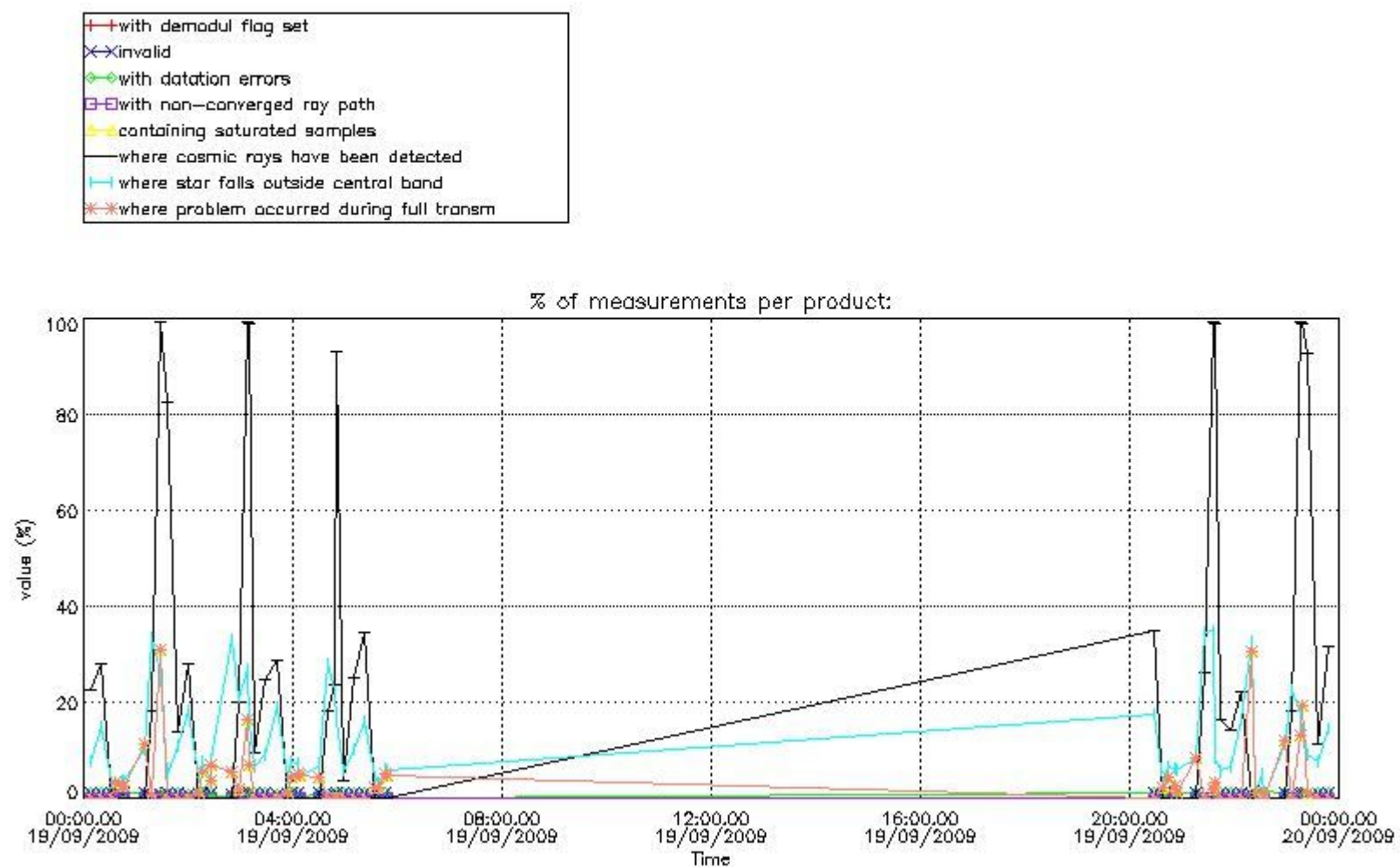
5. Demodulation flag and quality information monitoring

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.

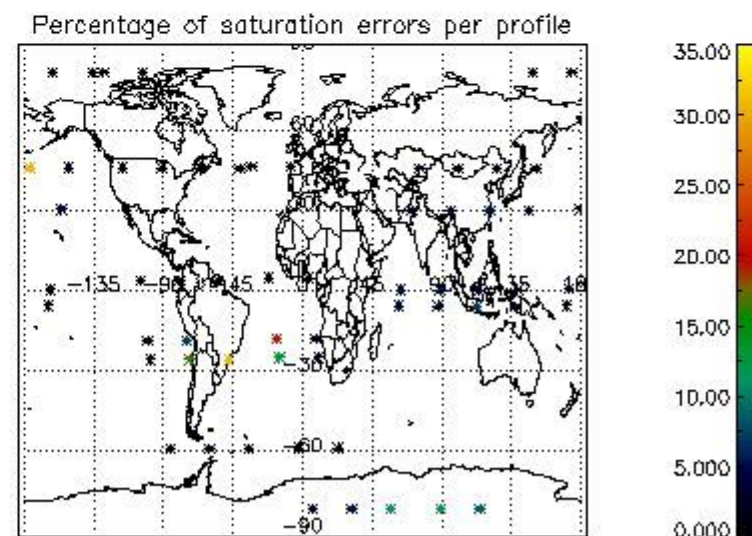
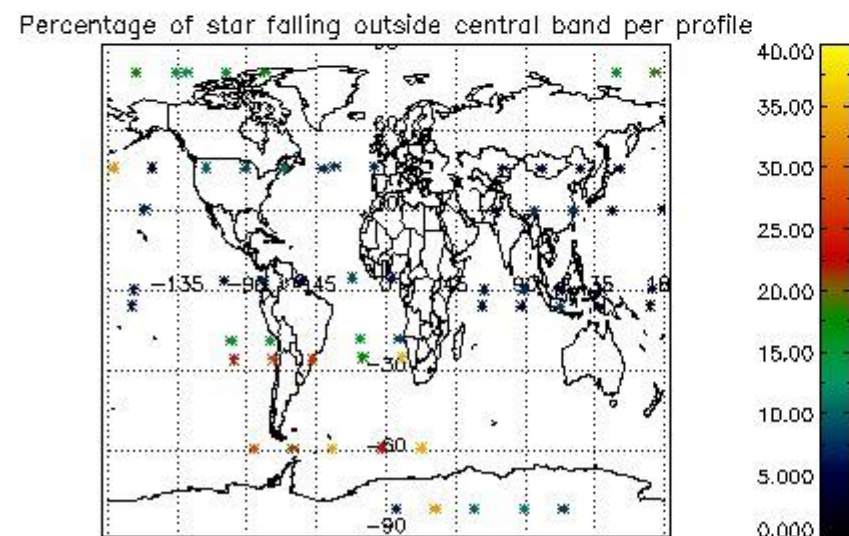
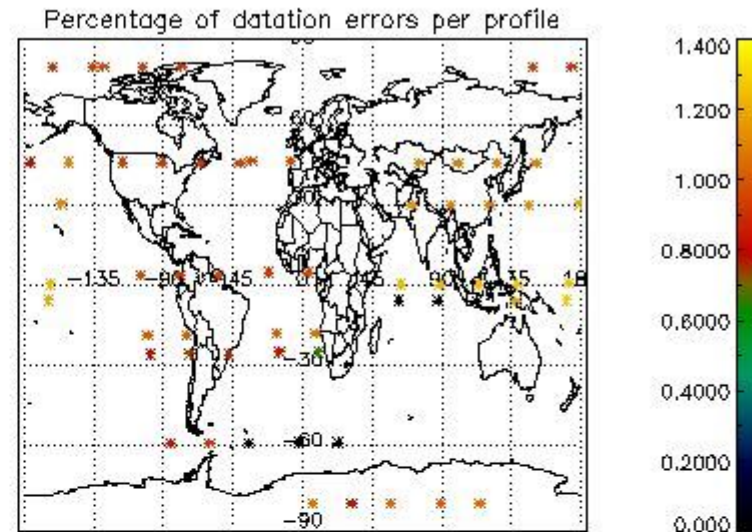
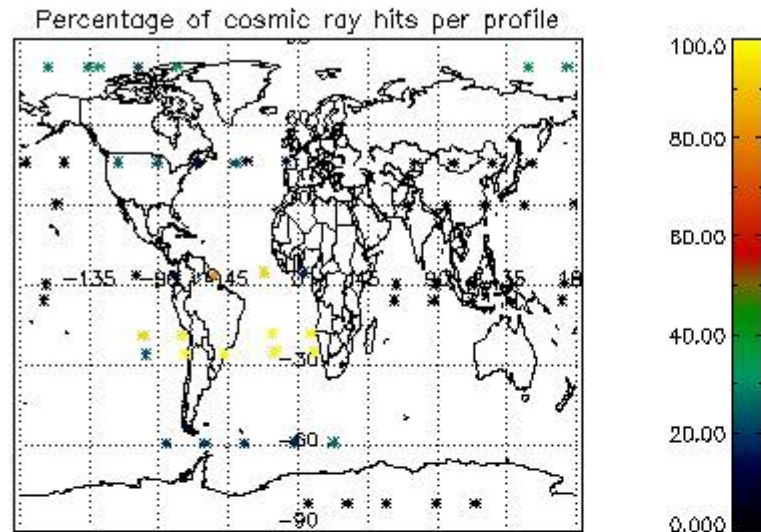
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	44.2623 %
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)



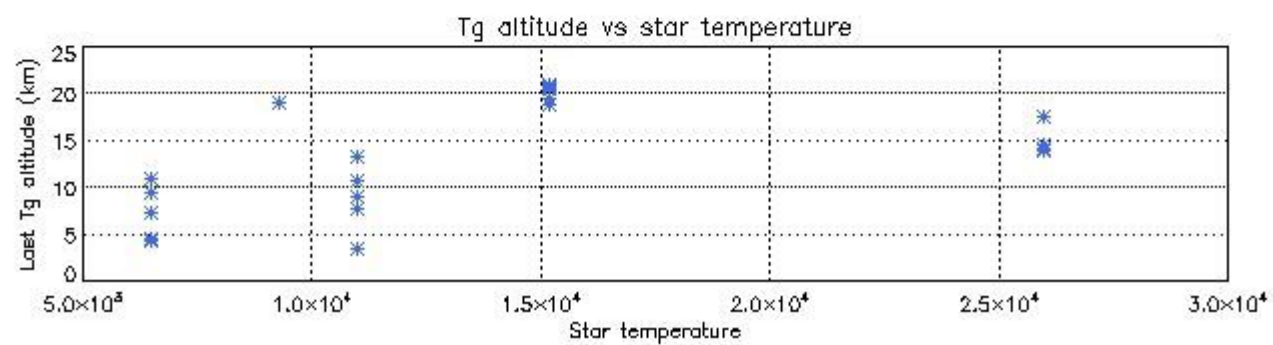
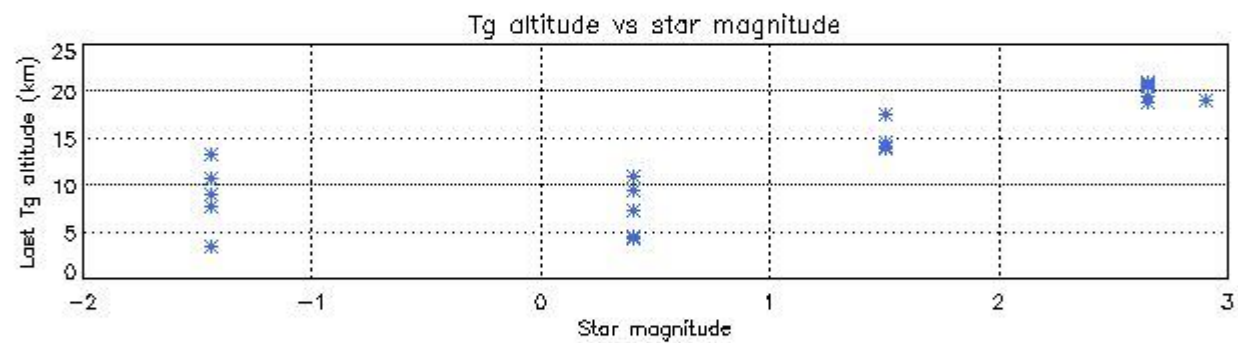
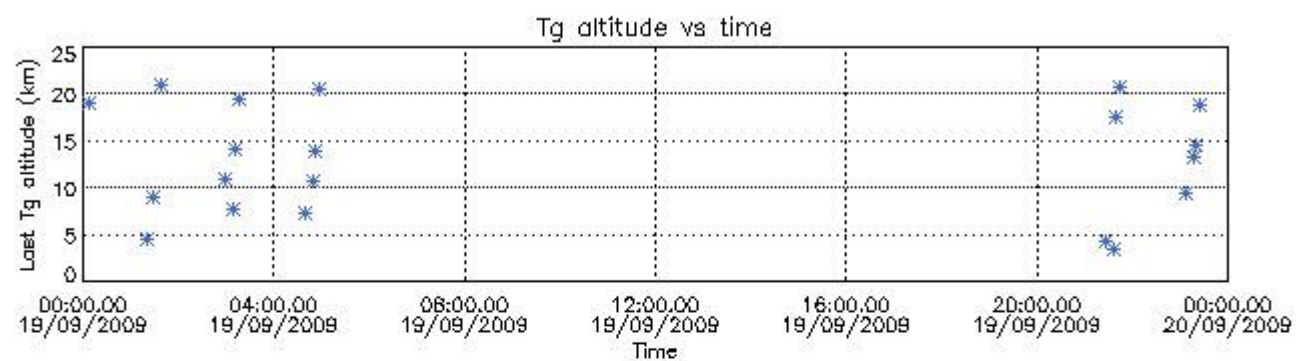
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.008	20.173	NaN
St. deviation:	5.8827	4.8727	NaN
Maximum:	20.869	27.440	NaN
Minimum:	3.3341	4.6217	NaN
Number of data:	20.000	29.000	NaN

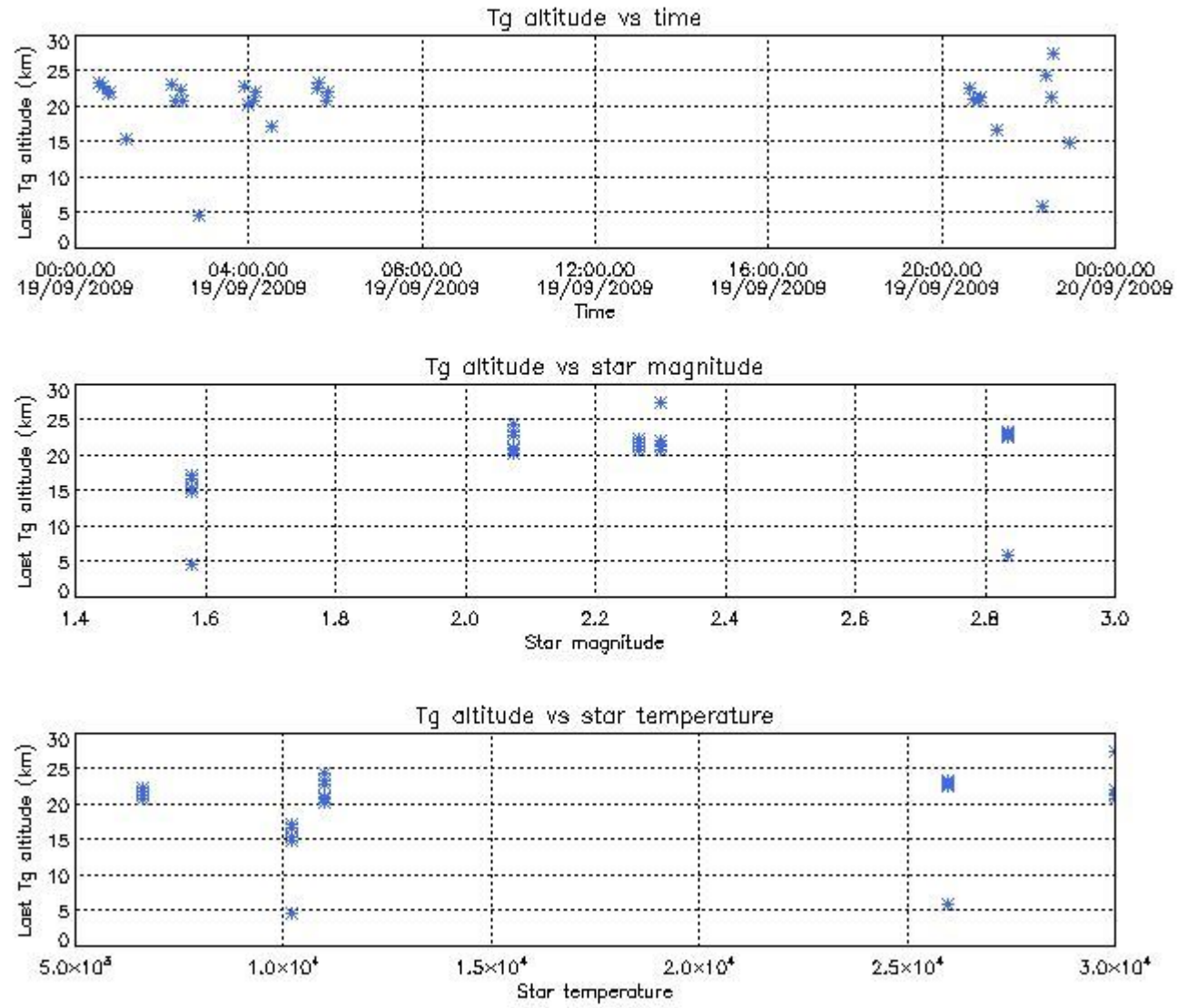
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

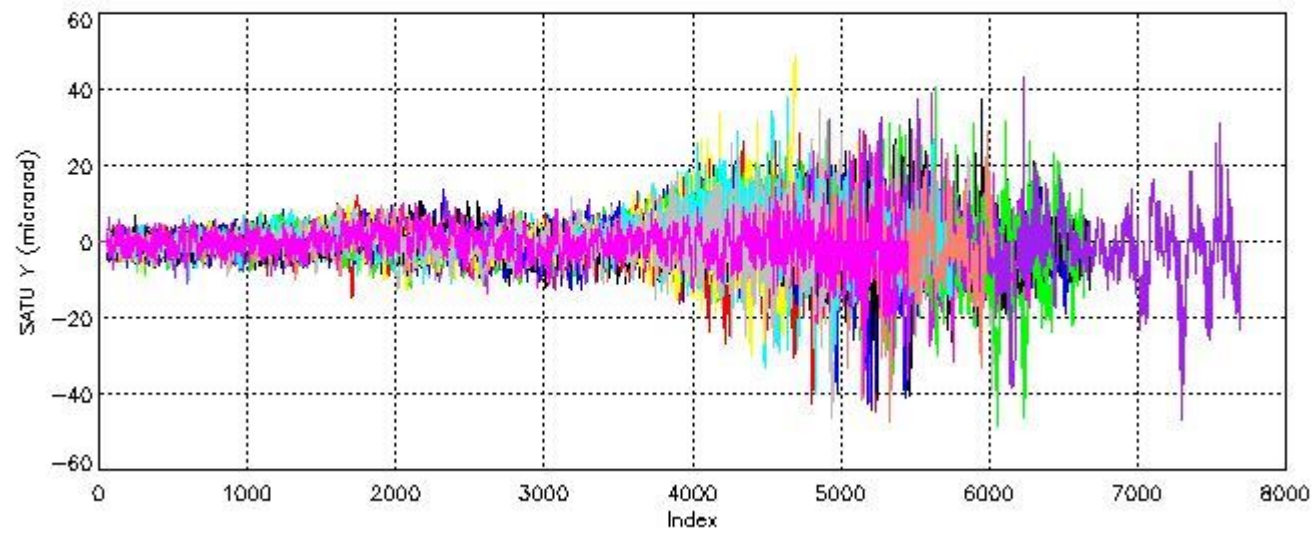
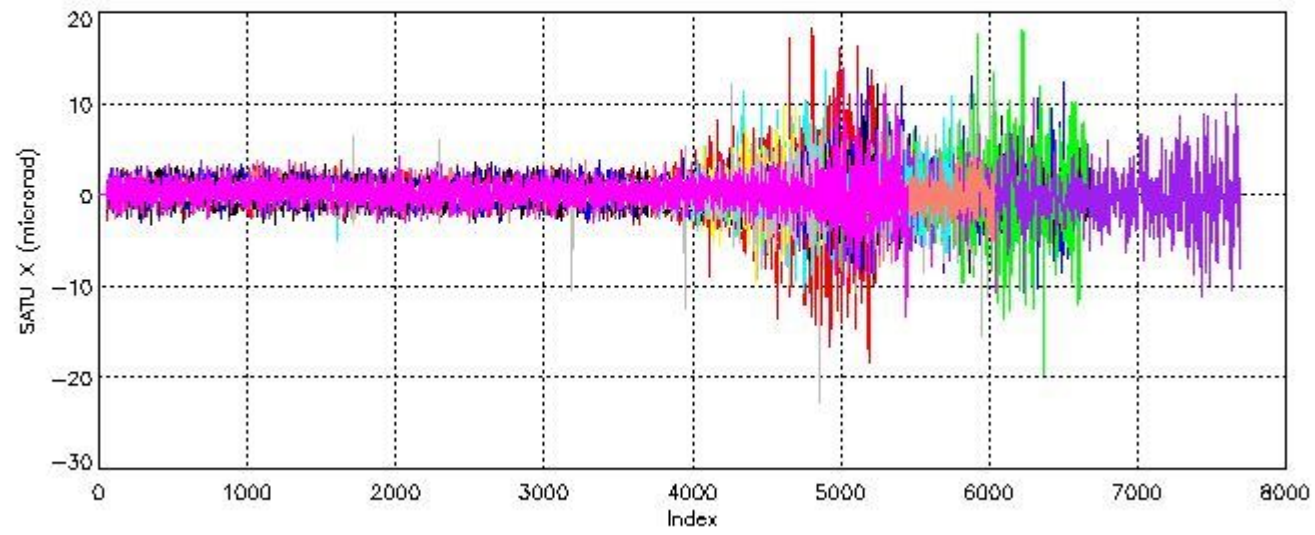


7. Star Acquisition and Tracking Unit (SATU)

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:	0.27801	-0.46412	0.30056	-0.46888
St. deviation:	0.49828	2.0553	0.93179	2.3044
Maximum:	3.8000	7.2000	7.0000	10.300
Minimum:	-3.3000	-11.000	-6.5000	-11.800

Number of data:	23750.	23750.	30650.	30650.
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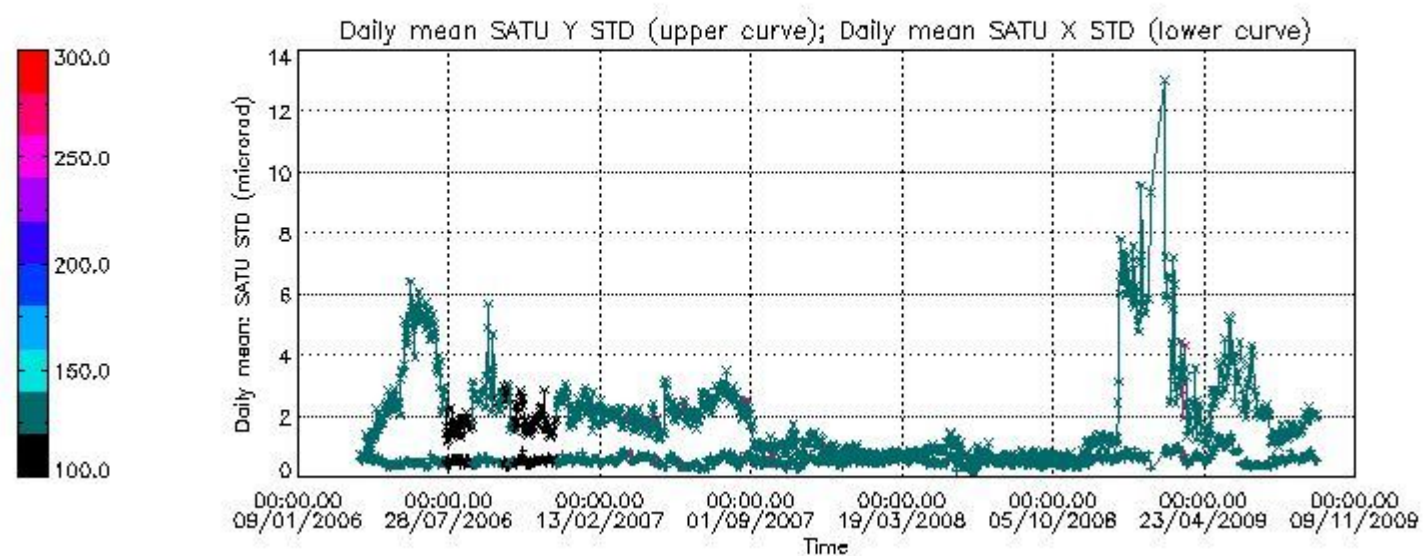
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

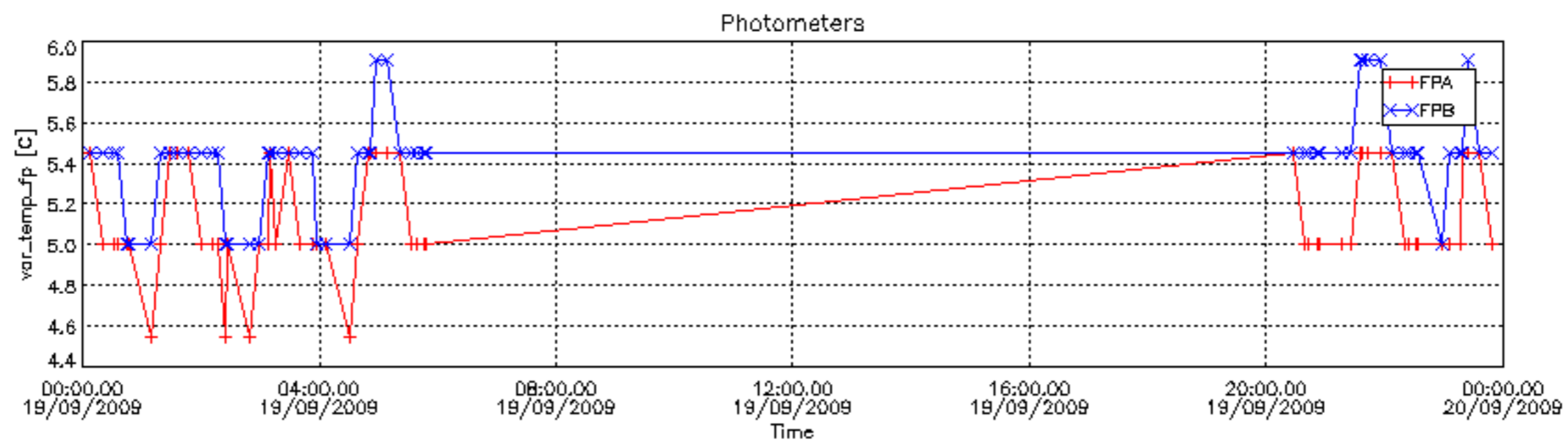
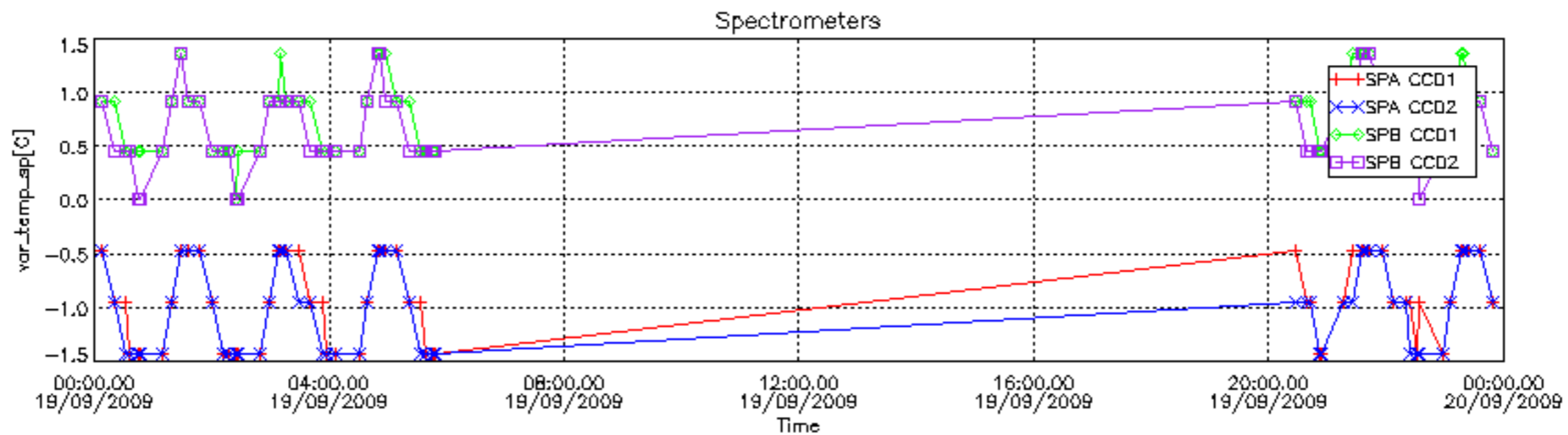
Lower curve: STD of SATU X axis

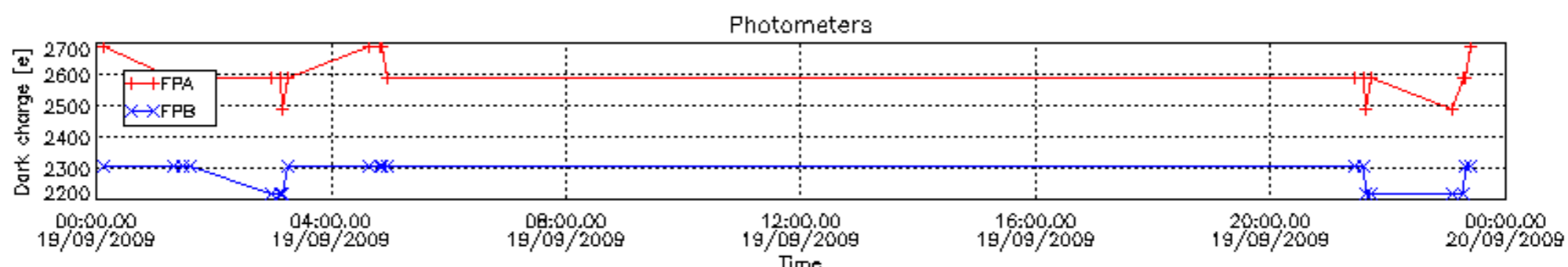
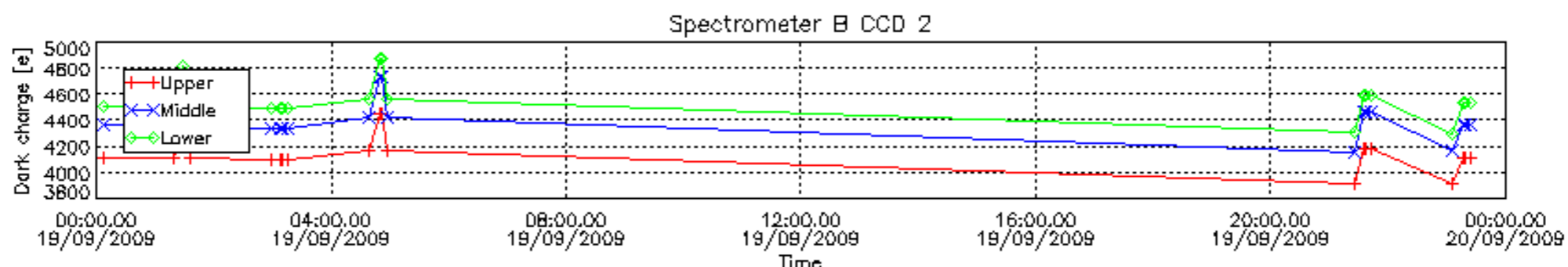
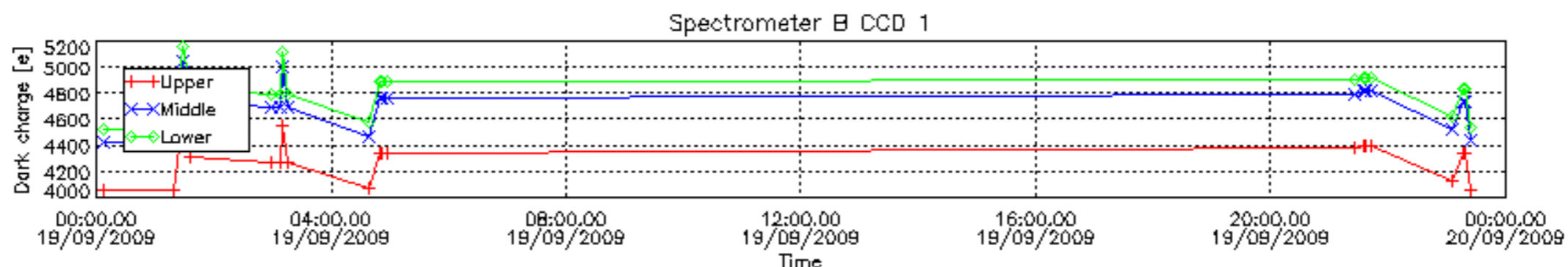
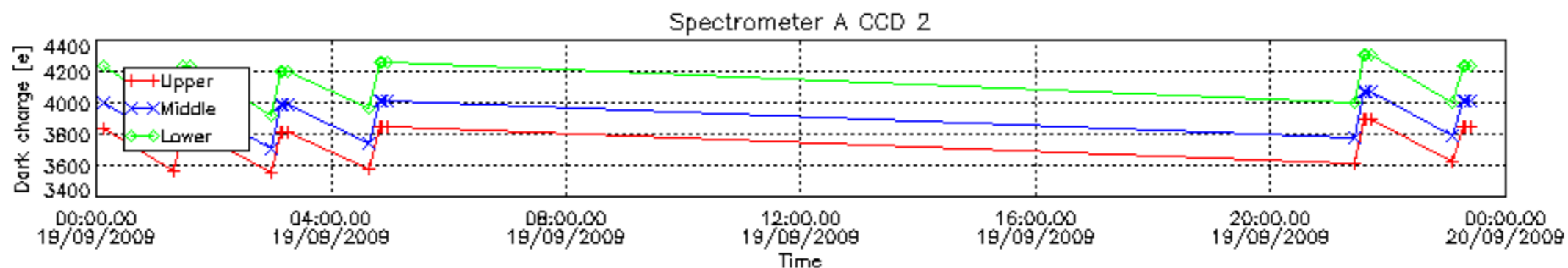
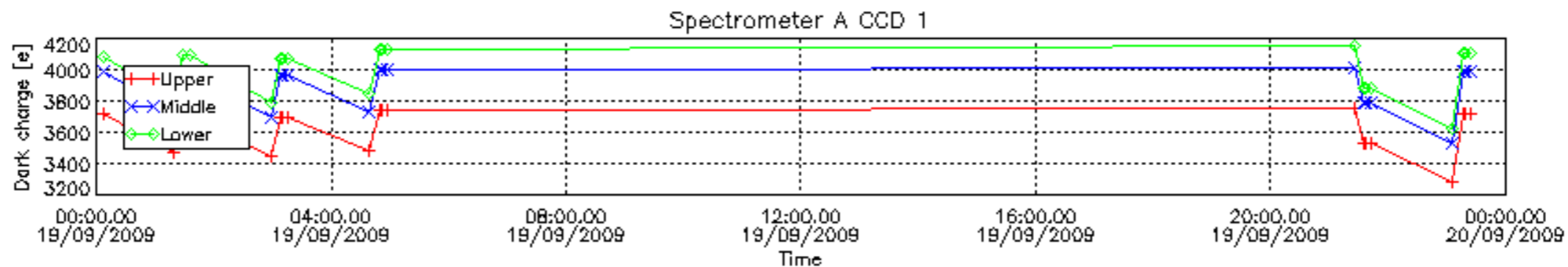


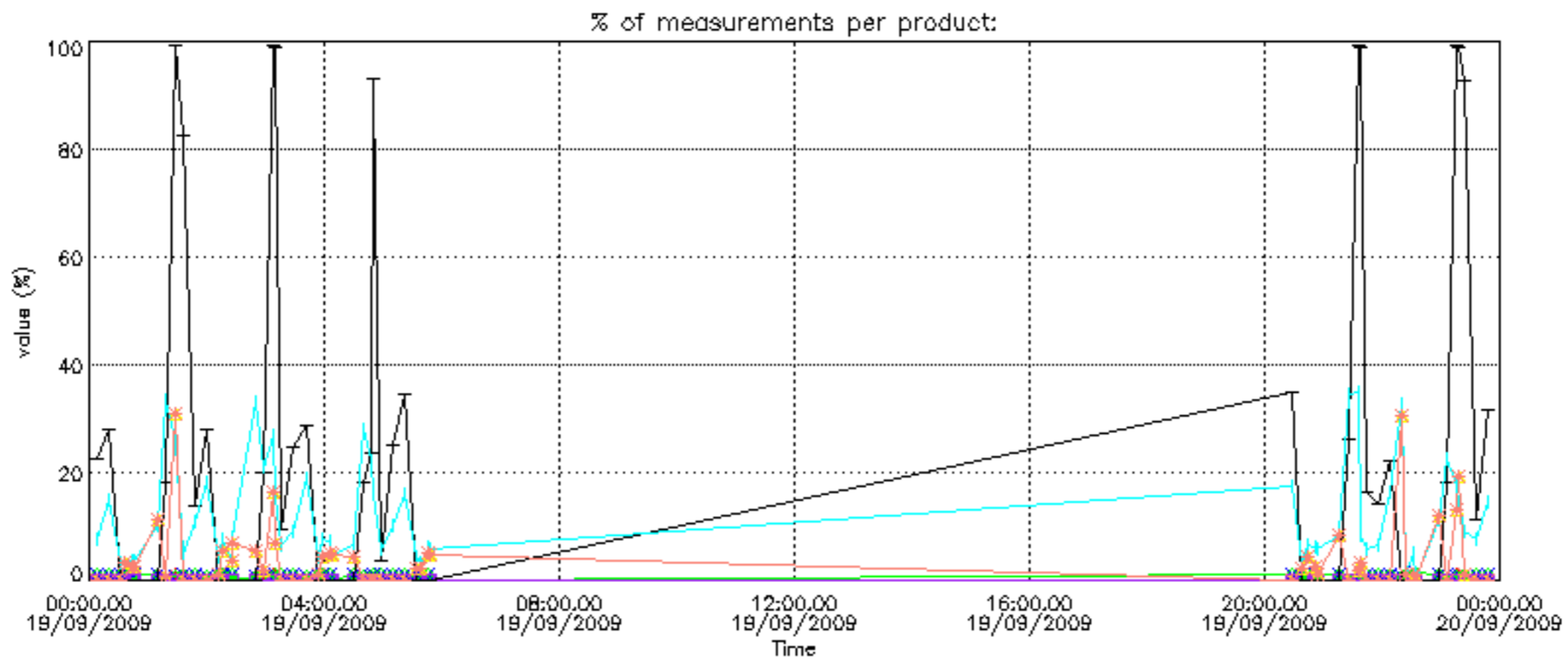
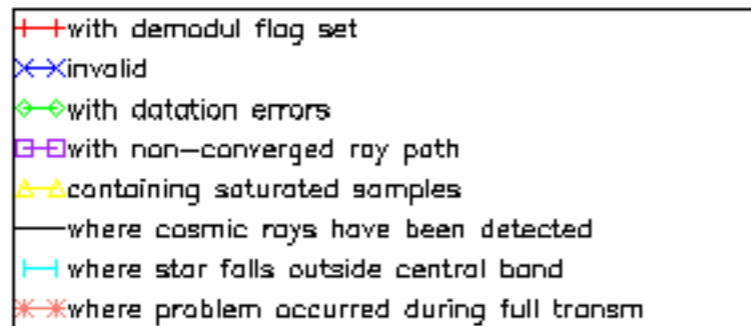
8. Auxiliary Data Files used for the production reported in section 2.4

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.

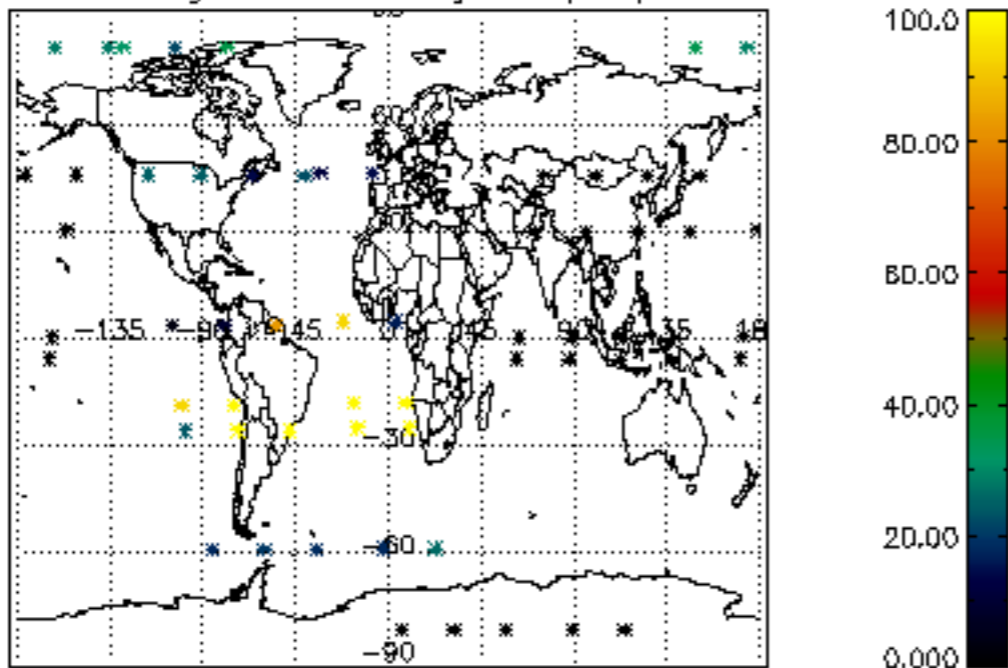
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	19-SEP-2009 00:07:15
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090915_081651_20090913_000000_20100101_000000	1	19-SEP-2009 00:07:15
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	19-SEP-2009 00:07:15
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-SEP-2009 00:07:15
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	19-SEP-2009 00:07:15
ECMWF_FILE	AUX_ECF_AXNECM20090918_064112_20090918_210000_20090919_090000	1	19-SEP-2009 00:07:15
ECMWF_FILE	AUX_ECF_AXNECM20090918_184111_20090919_030000_20090919_150000	28	19-SEP-2009 04:30:24
ECMWF_FILE	AUX_ECF_AXNECM20090919_064110_20090919_150000_20090920_030000	39	19-SEP-2009 20:27:11
ECMWF_FILE	AUX_ECF_AXNECM20090919_064111_20090919_210000_20090920_090000	46	19-SEP-2009 21:35:10
OPTIONAL_ECMWF_FILE	MISSING	1	19-SEP-2009 00:07:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090918_215738_000057382082_00358_39490_8788.N1	1	19-SEP-2009 00:07:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090918_233835_000057382082_00359_39491_8789.N1	9	19-SEP-2009 01:27:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090919_011932_000044632082_00360_39492_8790.N1	17	19-SEP-2009 02:49:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090919_041452_000057382082_00362_39494_8792.N1	28	19-SEP-2009 04:30:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090919_201114_000041442082_00372_39504_8793.N1	39	19-SEP-2009 20:27:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090919_212538_000060572082_00372_39504_8794.N1	57	19-SEP-2009 23:15:47



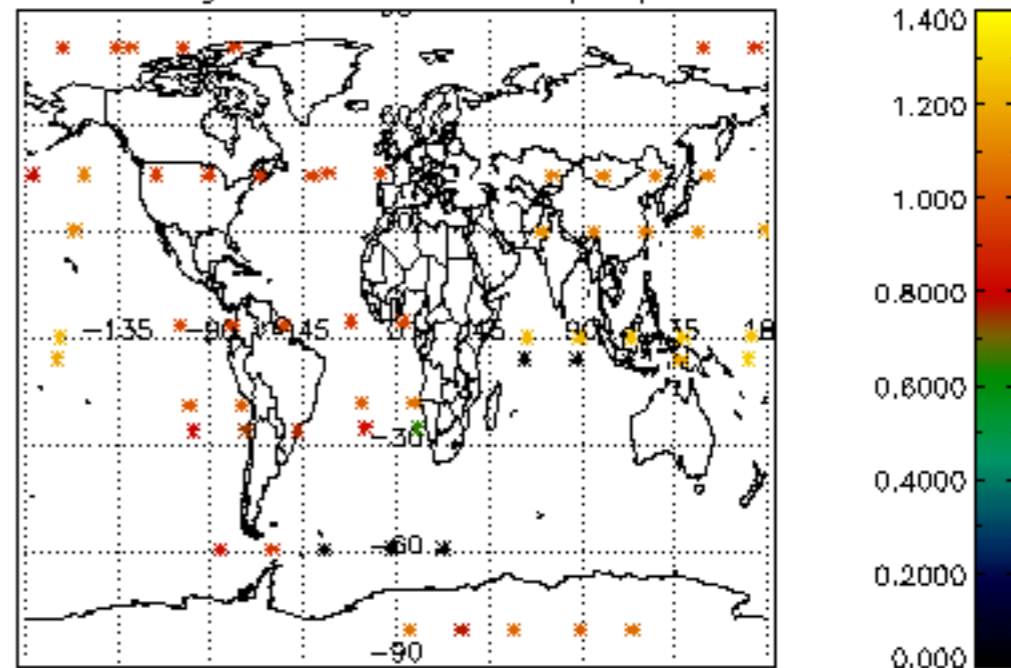




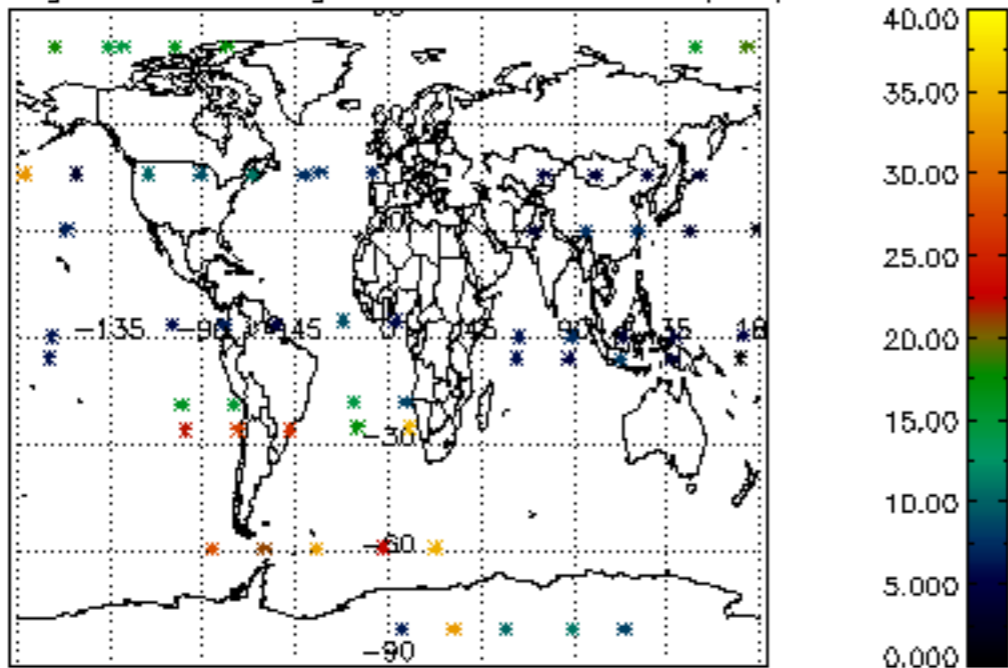
Percentage of cosmic ray hits per profile



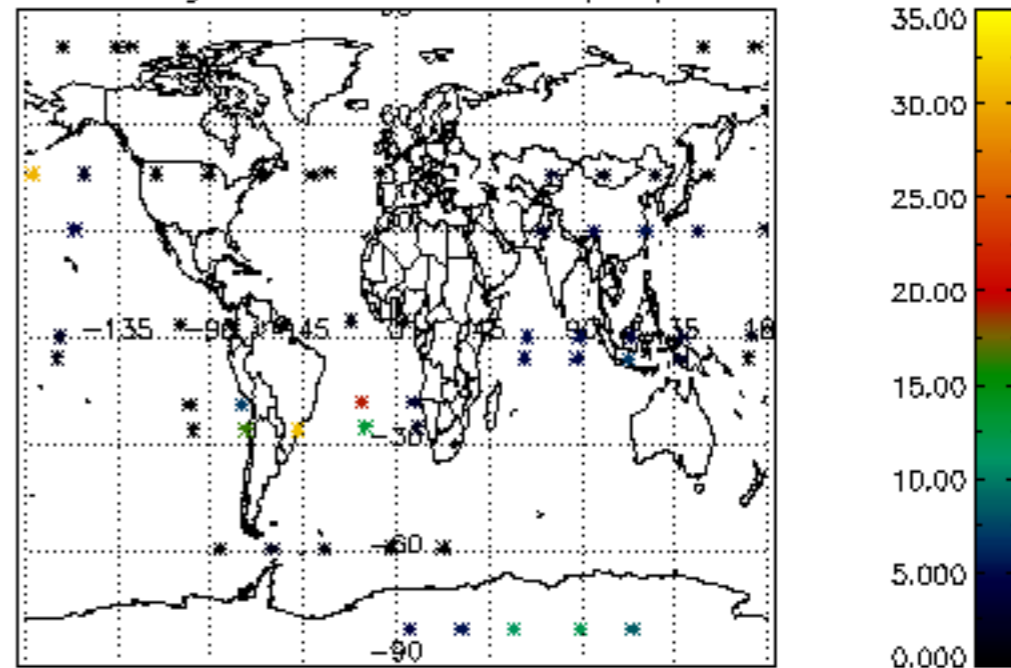
Percentage of datation errors per profile



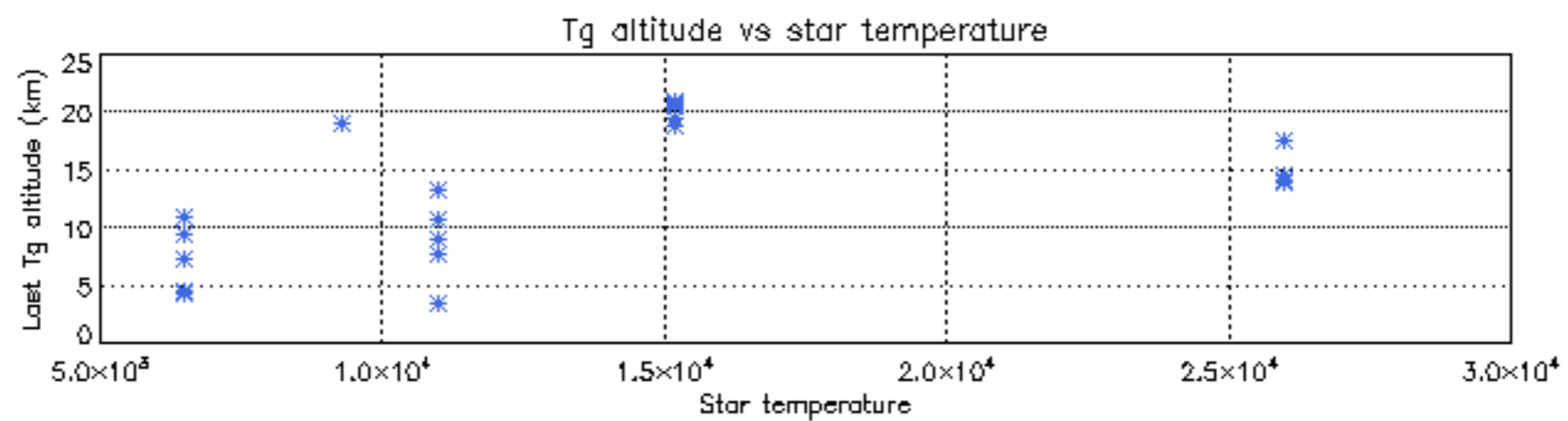
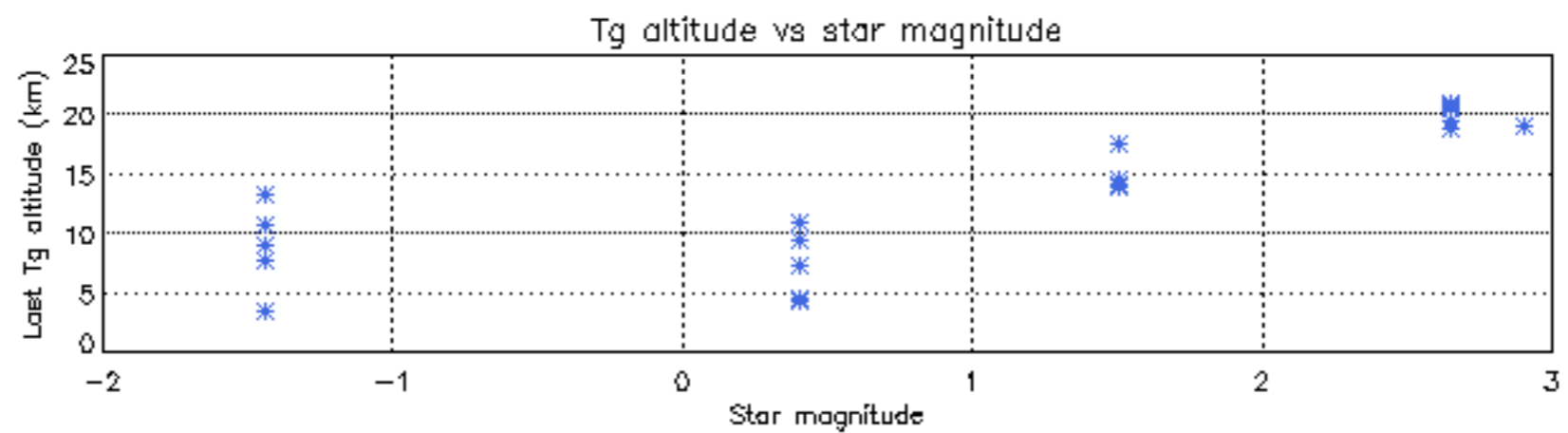
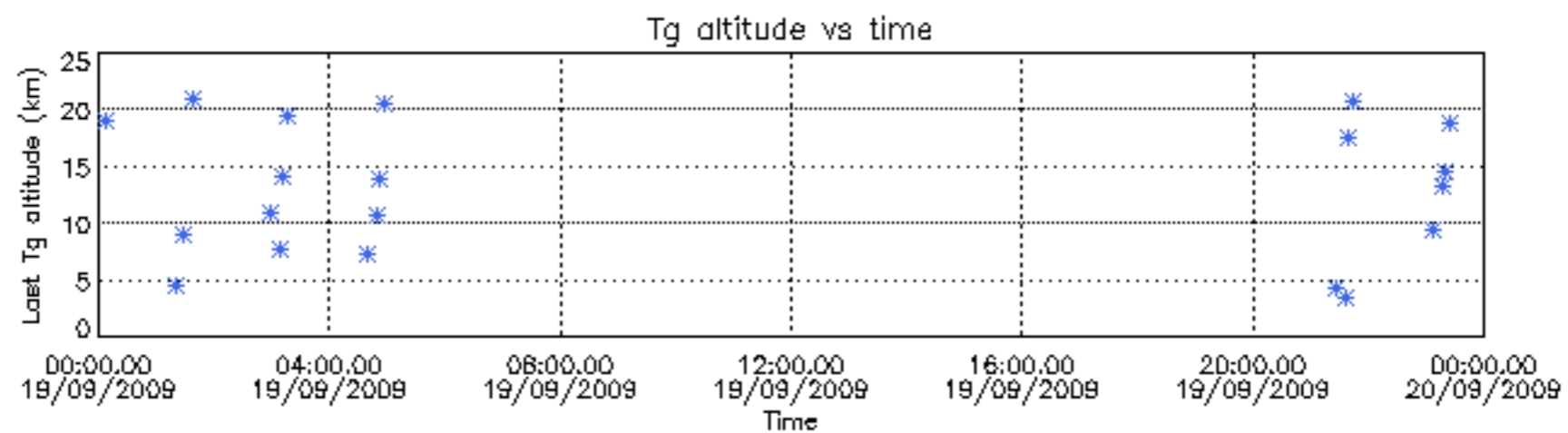
Percentage of star falling outside central band per profile



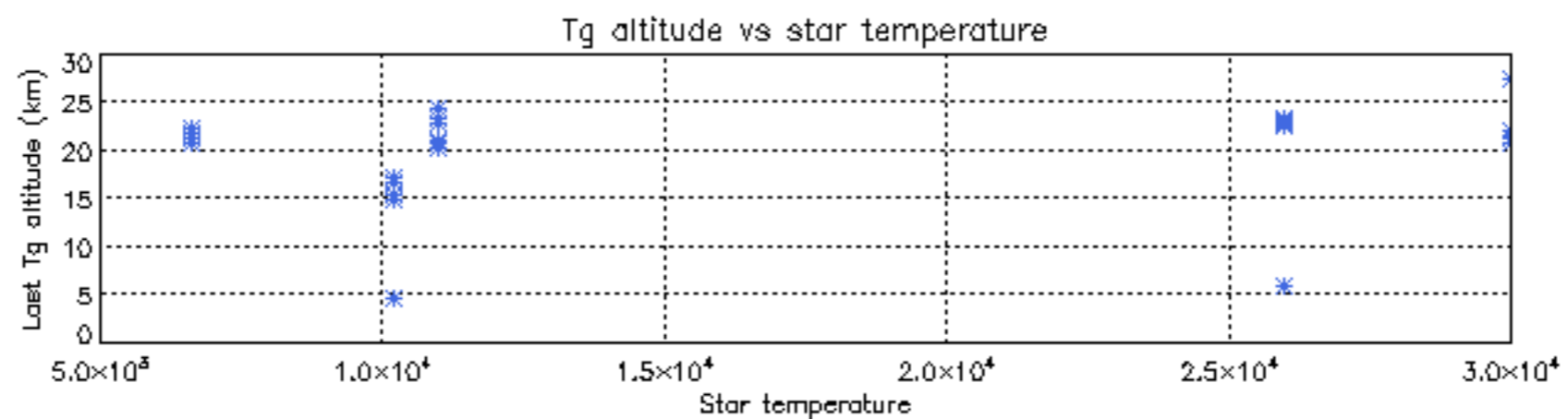
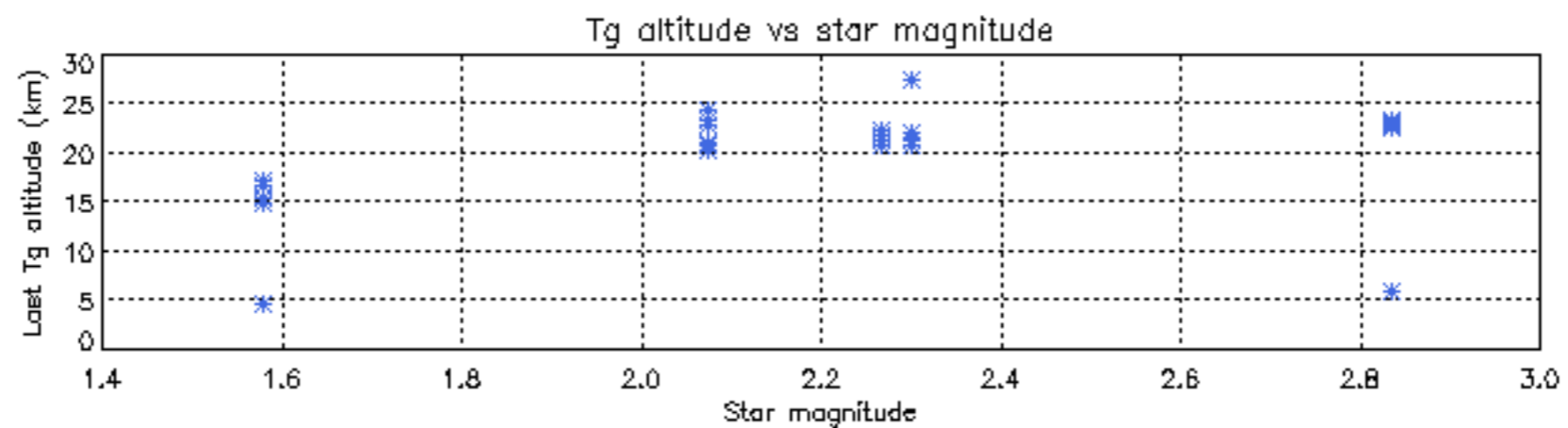
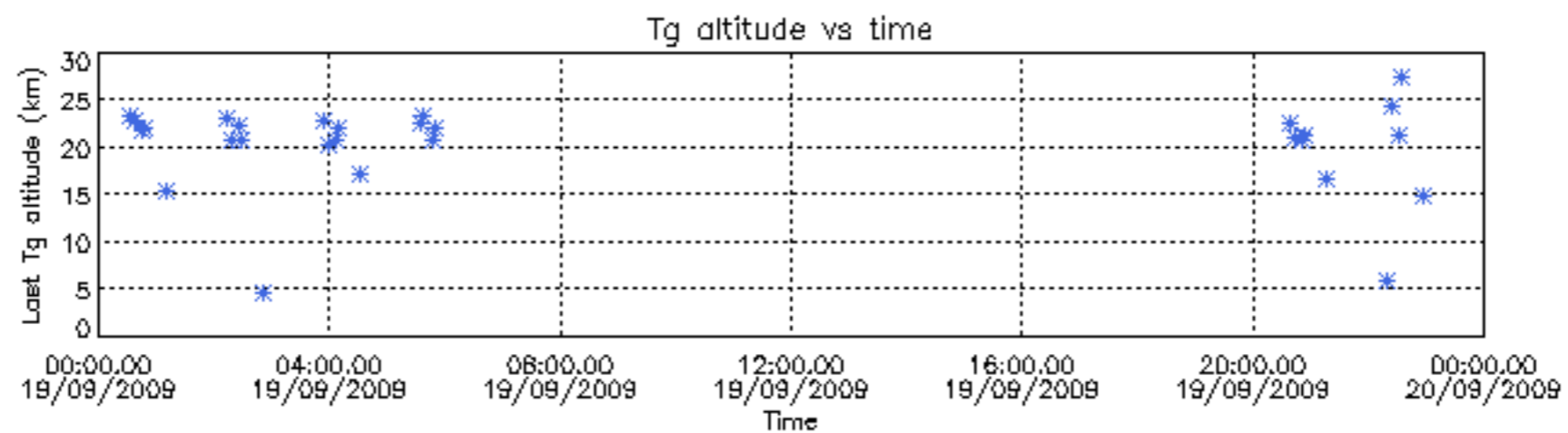
Percentage of saturation errors per profile

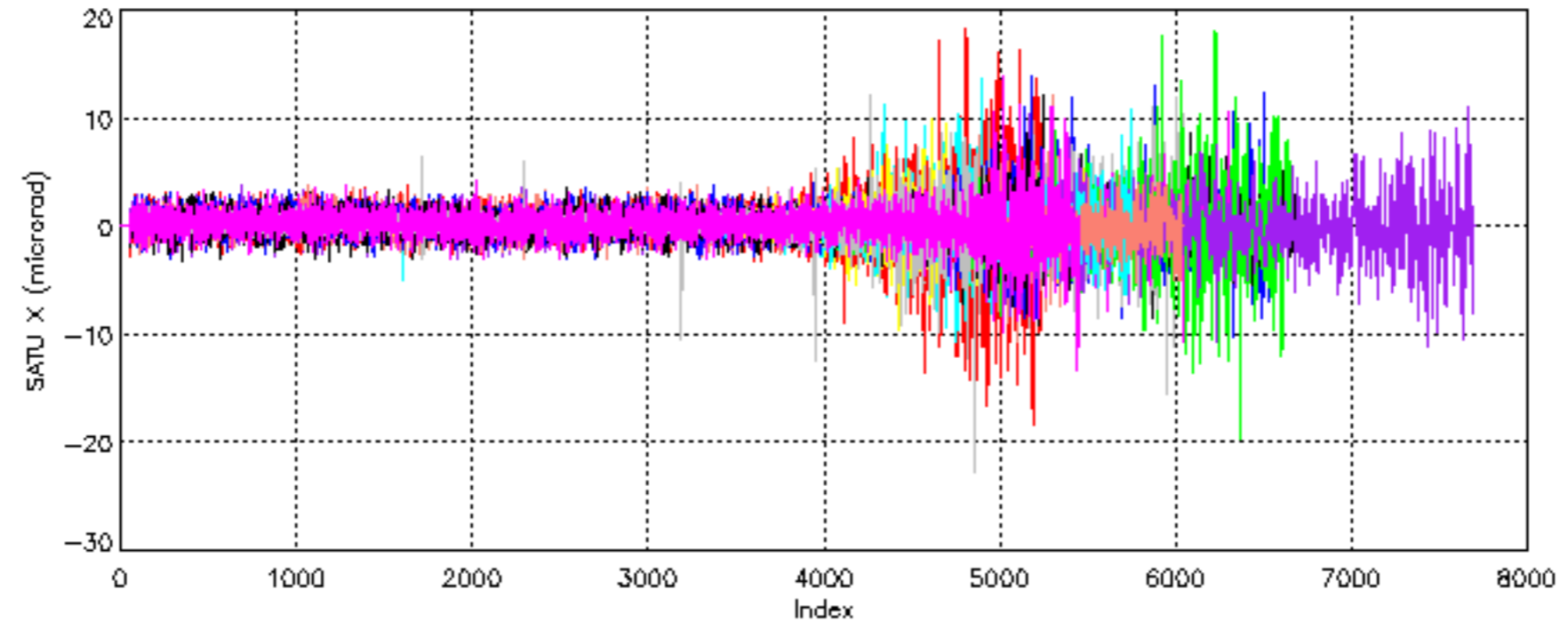


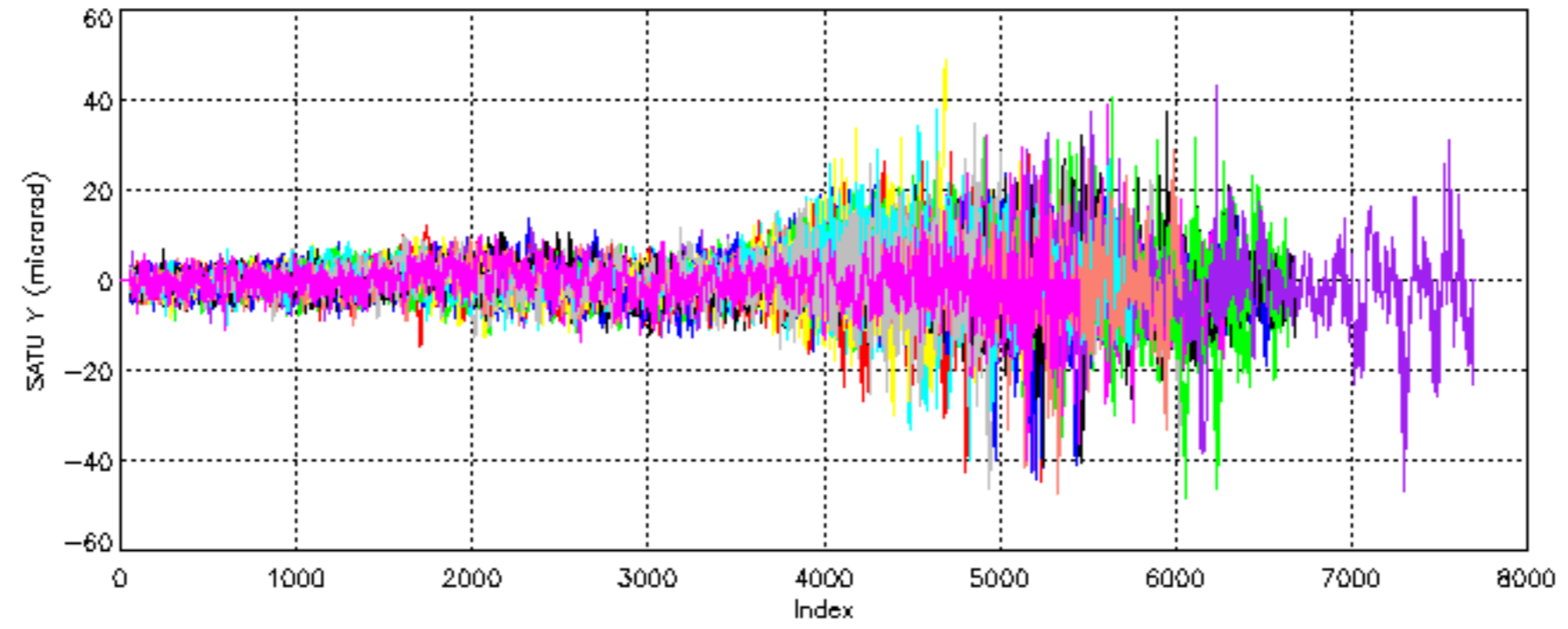
Tangent altitude at which the star is lost

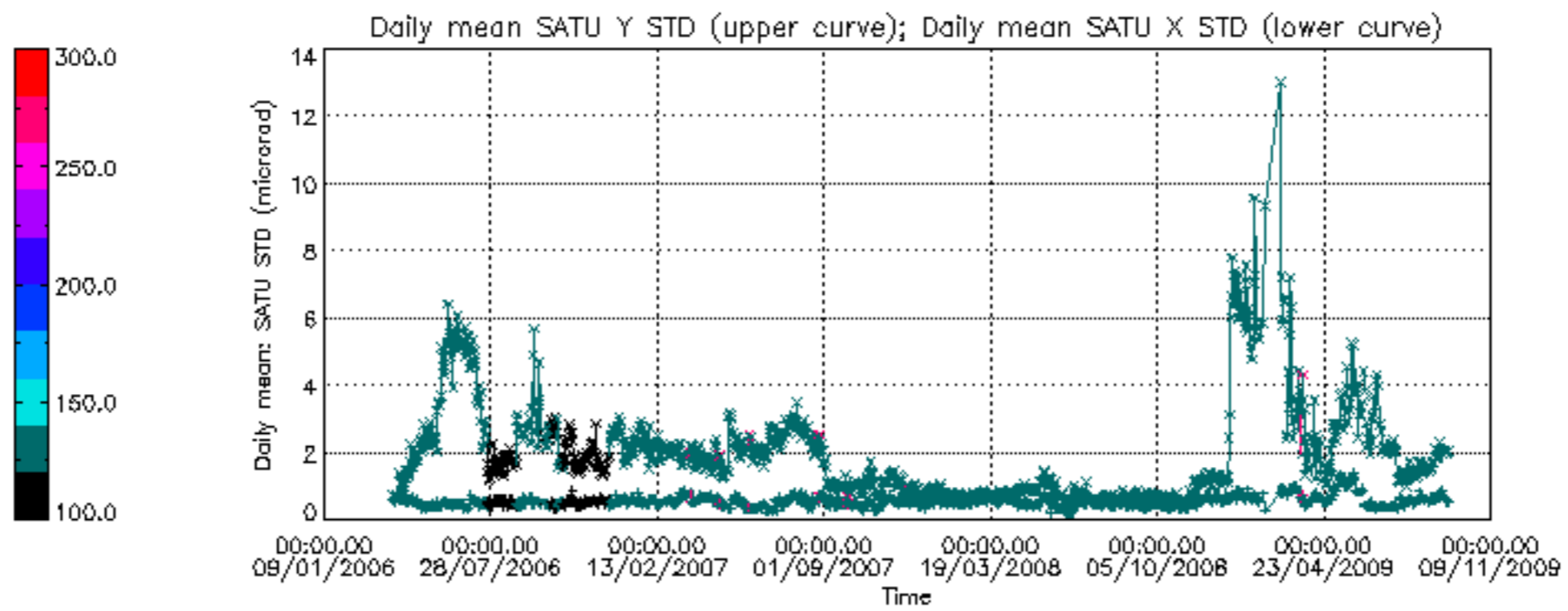


Tangent altitude at which the star is lost









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/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
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090901_022502_000042832082_00103_39235_8473.N1
1; -966.8; 01-SEP-2009 02:25:02; Dark ; 66.5; 14; 58Alp Ori ; 0.87; 3000;occ; 133; 0;39235
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
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 6; 4378.4; 01-SEP-2009 08:55:55; Bright; 46.5; 107; 37The Aur ; 2.65; 11000;occ; 93; 0;39239
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3; 2449.6; 10-SEP-2009 20:25:12; Bright; 57.0; 164; 44Eta Peg ; 2.95; 5400;occ; 114; 0;39375
4; 3062.8; 10-SEP-2009 20:35:25; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;39375
5; 3178.5; 10-SEP-2009 20:37:20; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39375
6; 4184.2; 10-SEP-2009 20:54:06; Bright; 51.0; 42; 34Bet Aur ; 1.90; 10200;occ; 102; 0;39375
7; 4471.6; 10-SEP-2009 20:58:54; Bright; 43.0; 24; 66Alp Gem ; 1.58; 10200;occ; 86; 0;39375
8; 4650.2; 10-SEP-2009 21:01:52; Dark ; 56.5; 170; 27Eps Gem ; 3.00; 9700;occ; 113; 0;39375
9; 4741.8; 10-SEP-2009 21:03:24; Dark ; 27.0; 151; 13Mu Gem ; 2.89; 3000;occ; 54; 0;39375
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5; -279.6; 10-SEP-2009 21:20:18; Dark ; 44.5; 177; 1Zet CMa ; 3.02; 26000;occ; 89; 0;39375
6; -194.6; 10-SEP-2009 21:21:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39375
7; -81.0; 10-SEP-2009 21:23:37; Dark ; 49.5; 108; Alp Col ; 2.65; 15200;occ; 99; 0;39375
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11; 2449.0; 10-SEP-2009 22:05:47; Bright; 37.0; 164; 44Eta Peg ; 2.95; 5400;occ; 74; 0;39376
12; 3062.1; 10-SEP-2009 22:16:00; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;39376
13; 3177.9; 10-SEP-2009 22:17:56; Bright; 44.5; 76; 27Gam Cas ; 2.30; 30000;occ; 89; 0;39376
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3; -193.8; 10-SEP-2009 23:02:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39376
4; -80.0; 10-SEP-2009 23:04:14; Dark ; 48.0; 108; Alp Col ; 2.65; 15200;occ; 96; 0;39376
5; 652.3; 10-SEP-2009 23:16:26; Dark ; 56.0; 157; The1Eri ; 2.91; 9300;occ; 112; 0;39377
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8; 2448.8; 10-SEP-2009 23:46:22; Bright; 37.0; 164; 44Eta Peg ; 2.95; 5400;occ; 74; 0;39377
9; 3061.5; 10-SEP-2009 23:56:35; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;39377
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3; -1388.3; 10-SEP-2009 07:37:02; Dark ; 54.5; 170; 27Eps Gem ; 3.00; 9700;occ; 109; 0;39367
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5; 4185.9; 10-SEP-2009 09:09:56; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;39368
6; 4470.7; 10-SEP-2009 09:14:41; Bright; 43.5; 24; 66Alp Gem ; 1.58; 10200;occ; 87; 0;39368
7; 4648.1; 10-SEP-2009 09:17:39; Dark ; 56.0; 170; 27Eps Gem ; 3.00; 9700;occ; 112; 0;39368
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6; 1523.6; 14-SEP-2009 02:57:53; Dark ; 58.0; 52; 16Bet Cet ; 2.04; 4500;occ; 116; 0;39422
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4; -1147.2; 14-SEP-2009 03:53:59; Dark ; 32.0; 44; 24Gam Gem ; 1.93; 11000;occ; 64; 0;39422


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3; -144.8; 14-SEP-2009 20:56:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39432
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5; 3105.0; 19-SEP-2009 20:53:20; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;39504
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4; 78.1; 19-SEP-2009 21:43:29; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;39505
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6; 66.2; 19-SEP-2009 06:37:54; Dark ; 53.0; 108; Alp Col ; 2.65; 15200;occ; 106; 0;39496
7; 774.2; 19-SEP-2009 06:49:42; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;39496
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4; 3109.0; 19-SEP-2009 07:28:37; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39496
5; 4488.4; 19-SEP-2009 07:51:36; Bright; 50.0; 24; 66Alp Gem ; 1.58; 10200;occ; 100; 0;39496
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9; 5952.0; 19-SEP-2009 08:16:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39496
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3; 3006.4; 19-SEP-2009 09:07:30; Bright; 55.5; 74; 11Bet Cas ; 2.27; 6600;occ; 111; 0;39497

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3; 3005.6; 19-SEP-2009 12:28:41; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39499
4; 3107.5; 19-SEP-2009 12:30:23; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;39499
5; 4488.7; 19-SEP-2009 12:53:24; Bright; 65.0; 24; 66Alp Gem ; 1.58; 10200;occ; 130; 0;39499
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5; 3106.3; 19-SEP-2009 15:51:34; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;39501
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5; 3105.9; 19-SEP-2009 17:32:09; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;39502
6; 4489.1; 19-SEP-2009 17:55:12; Bright; 51.0; 24; 66Alp Gem ; 1.58; 10200;occ; 102; 0;39502
7; 5034.1; 19-SEP-2009 18:04:17; Dark ; 57.5; 8; 10Alp CMi ; 0.40; 6500;occ; 115; 0;39502
8; 5612.0; 19-SEP-2009 18:13:55; Dark ; 62.0; 1; 9Alp CMA ; -1.44; 11000;occ; 124; 0;39502
9; 5730.6; 19-SEP-2009 18:15:54; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;39502
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3; 2502.3; 19-SEP-2009 19:02:42; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;39503
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8; 5613.1; 19-SEP-2009 19:54:32; Dark ; 64.5; 1; 9Alp CMA ; -1.44; 11000;occ; 129; 0;39503
9; 5731.9; 19-SEP-2009 19:56:31; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;39503
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11; 6151.9; 21-SEP-2009 20:40:53; Dark ; 54.5; 108; Alp Col ; 2.65; 15200;occ; 109; 0;39532
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 4; 119.7; 22-SEP-2009 01:42:44; Dark ; 54.0; 108; Alp Col ; 2.65; 15200;occ; 108; 0;39536
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 7; 2224.8; 22-SEP-2009 02:17:49; Bright; 44.5; 140; 88Gam Peg ; 2.83; 26000;occ; 89; 0;39536
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 9; 2991.0; 22-SEP-2009 02:30:35; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39536
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 9; 2224.6; 22-SEP-2009 03:58:25; Bright; 43.5; 140; 88Gam Peg ; 2.83; 26000;occ; 87; 0;39537
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11; 2990.8; 22-SEP-2009 04:11:11; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39537
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9; 2223.9; 22-SEP-2009 05:39:00; Bright; 44.0; 140; 88Gam Peg ; 2.83; 26000;occ; 88; 0;39538
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3; 2480.0; 22-SEP-2009 20:48:40; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;39547
4; 2987.5; 22-SEP-2009 20:57:07; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39547
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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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1; 1556.4; 30-SEP-2009 16:20:19; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39659
2; 2186.1; 30-SEP-2009 16:30:48; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39659
3; 2436.2; 30-SEP-2009 16:34:58; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;39659
4; 2663.6; 30-SEP-2009 16:38:46; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;39659
5; 2947.6; 30-SEP-2009 16:43:30; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39659
6; 3033.6; 30-SEP-2009 16:44:56; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39659
7; 4512.4; 30-SEP-2009 17:09:35; Bright; 36.5; 24; 66Alp Gem ; 1.58; 10200;occ; 73; 0;39659
8; 4600.5; 30-SEP-2009 17:11:03; Bright; 36.0; 17; 78Bet Gem ; 1.16; 4500;occ; 72; 0;39659
9; 5159.6; 30-SEP-2009 17:20:22; Dark ; 43.5; 8; 10Alp CMi ; 0.40; 6500;occ; 87; 0;39659
10; 5583.3; 30-SEP-2009 17:27:26; Dark ; 35.0; 132; 15Rho Pup ; 2.80; 6900;occ; 70; 0;39659
11; 5799.7; 30-SEP-2009 17:31:02; Dark ; 39.5; 88; 31Eta CMA ; 2.45; 20000;occ; 79; 0;39659
12; 5902.7; 30-SEP-2009 17:32:45; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;39659
13; 6128.7; 30-SEP-2009 17:36:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39659
14; 6335.8; 30-SEP-2009 17:39:58; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39659
15; 6948.2; 30-SEP-2009 17:50:10; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;39659
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2; 2185.8; 30-SEP-2009 18:11:24; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39660
3; 2435.9; 30-SEP-2009 18:15:34; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;39660
4; 2662.7; 30-SEP-2009 18:19:21; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;39660
5; 2946.9; 30-SEP-2009 18:24:05; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39660
6; 3033.2; 30-SEP-2009 18:25:31; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39660
7; 4512.4; 30-SEP-2009 18:50:11; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;39660
8; 4600.6; 30-SEP-2009 18:51:39; Bright; 36.5; 17; 78Bet Gem ; 1.16; 4500;occ; 73; 0;39660
9; 5160.7; 30-SEP-2009 19:00:59; Dark ; 36.0; 8; 10Alp CMi ; 0.40; 6500;occ; 72; 0;39660
10; 5584.8; 30-SEP-2009 19:08:03; Dark ; 34.5; 132; 15Rho Pup ; 2.80; 6900;occ; 69; 0;39660
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12; 5904.0; 30-SEP-2009 19:13:22; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39660
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2; 2186.0; 30-SEP-2009 19:52:00; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39661
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8;	4600.7;	30-SEP-2009	20:32:15;	Bright;	36.5;	17;	78Bet Gem	;	1.16;	4500;occ;	73;	0;	39661	
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