

GOMOS Daily Report 16-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	18SEP2009 04:33:50
Data source version	GOMOS/5.00
Start time of products	16SEP2009 00:00:48
Stop time of products	16SEP2009 23:59:09
Store outputs in DB	Yes
Nb of level 1b prods	92
Nb of prods with errors	0

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

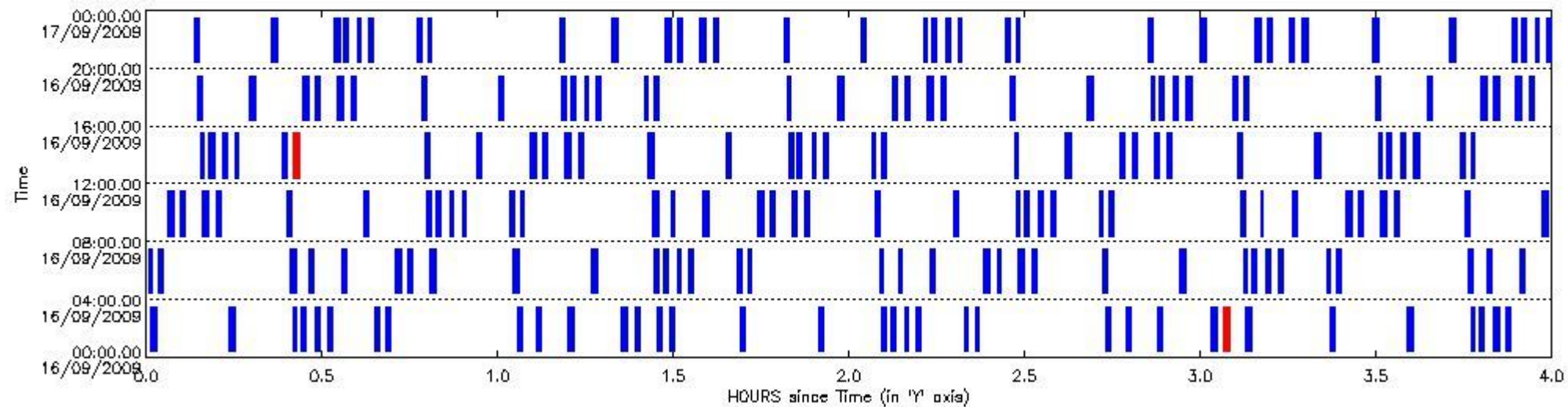
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

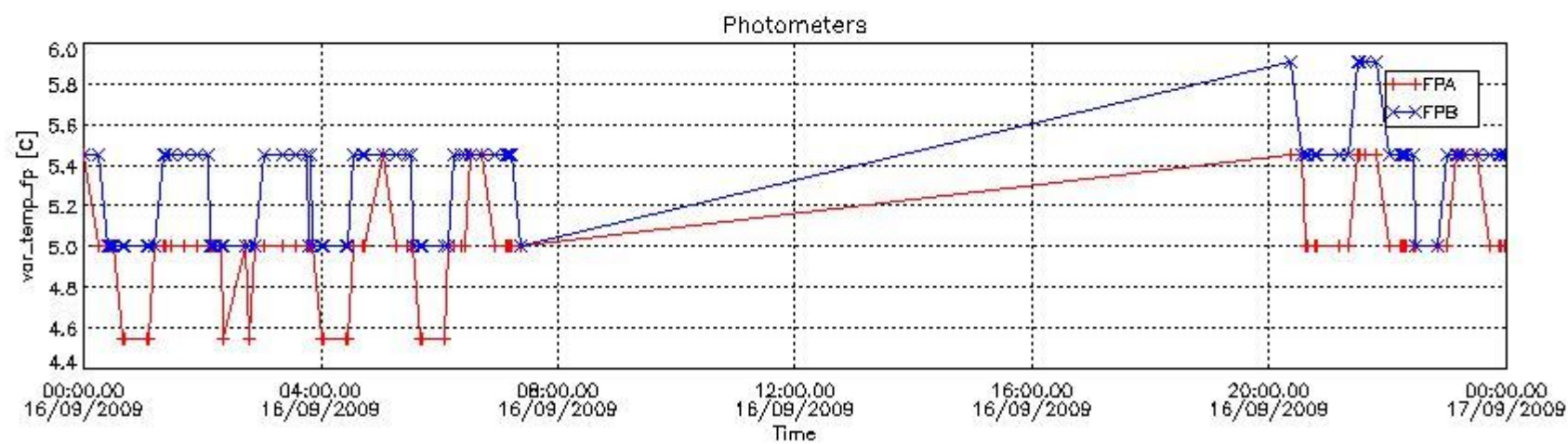
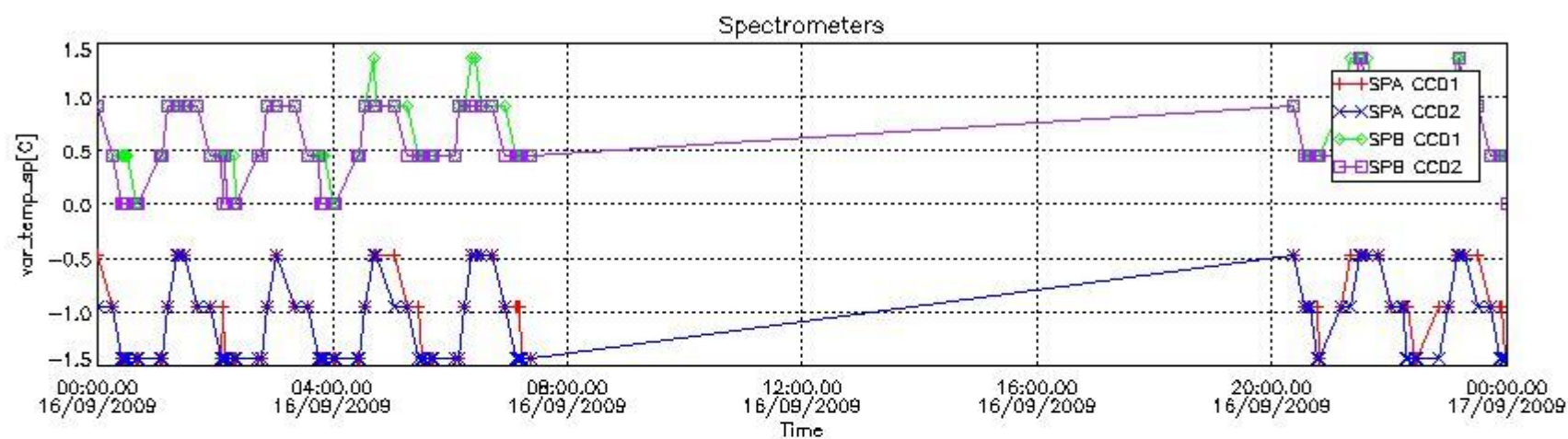
UTC start time	Star name	Star ID	Orbit
16-SEP-2009 03:04:03	21EpsCMa	23	39450
16-SEP-2009 12:25:05	27GamCas	76	39456

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_1PNPDE20090916_000048_000000542082_00317_39449_5842.N1	16-SEP-2009 00:00:48	Dark	54.000	157	The1Eri	2.9060	9300.0	108	39449	No
2	GOM_TRA_1PNPDE20090916_001407_000000602082_00317_39449_5843.N1	16-SEP-2009 00:14:07	Twilight_stray	59.500	52	16Bet Cet	2.0370	4500.0	119	39449	No
3	GOM_TRA_1PNPDE20090916_002459_000000402082_00317_39449_5844.N1	16-SEP-2009 00:24:59	Bright	39.500	90	54Alp Peg	2.4870	11000.	79	39449	No
4	GOM_TRA_1PNPDE20090916_002629_000000492082_00317_39449_5845.N1	16-SEP-2009 00:26:29	Bright	48.500	140	88Gam Peg	2.8340	26000.	97	39449	No
5	GOM_TRA_1PNPDE20090916_002851_000000392082_00317_39449_5846.N1	16-SEP-2009 00:28:51	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	39449	No
6	GOM_TRA_1PNPDE20090916_003056_000000472082_00317_39449_5847.N1	16-SEP-2009 00:30:56	Bright	46.500	58	21Alp And	2.0730	11000.	93	39449	No
7	GOM_TRA_1PNPDE20090916_003907_000000412082_00317_39449_5848.N1	16-SEP-2009 00:39:07	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	39449	No
8	GOM_TRA_1PNPDE20090916_004054_000000432082_00317_39449_5849.N1	16-SEP-2009 00:40:54	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	39449	No
9	GOM_TRA_1PNPDE20090916_010321_000000452082_00317_39449_5850.N1	16-SEP-2009 01:03:21	Bright	45.000	24	66Alp Gem	1.5800	10200.	90	39449	No

69	GOM_TRA_1PNPDE20090916_211034_000000452082_00329_39461_6921.N1	16-SEP-2009 21:10:34	Bright	44.500	24	66Alp Gem	1.5800	10200.	89	39461	No
70	GOM_TRA_1PNPDE20090916_211921_000000632082_00329_39461_6922.N1	16-SEP-2009 21:19:21	Dark	63.000	8	10Alp CMi	0.40000	6500.0	126	39461	No
71	GOM_TRA_1PNPDE20090916_212835_000000592082_00329_39461_7058.N1	16-SEP-2009 21:28:35	Dark	58.500	1	9Alp CMa	-1.4400	11000.	117	39461	No
72	GOM_TRA_1PNPDE20090916_213045_000000452082_00329_39461_7059.N1	16-SEP-2009 21:30:45	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	39461	No
73	GOM_TRA_1PNPDE20090916_213649_000000532082_00330_39462_7060.N1	16-SEP-2009 21:36:49	Dark	53.000	108	Alp Col	2.6520	15200.	106	39462	No
74	GOM_TRA_1PNPDE20090916_214848_000000542082_00330_39462_7061.N1	16-SEP-2009 21:48:48	Dark	54.000	157	The1Eri	2.9060	9300.0	108	39462	No
75	GOM_TRA_1PNPDE20090916_220156_000000582082_00330_39462_7062.N1	16-SEP-2009 22:01:56	Twilight	57.500	52	16Bet Cet	2.0370	4500.0	115	39462	No
76	GOM_TRA_1PNPDE20090916_221244_000000392082_00330_39462_7063.N1	16-SEP-2009 22:12:44	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	39462	No
77	GOM_TRA_1PNPDE20090916_221408_000000472082_00330_39462_7064.N1	16-SEP-2009 22:14:08	Bright	47.000	140	88Gam Peg	2.8340	26000.	94	39462	No
78	GOM_TRA_1PNPDE20090916_221635_000000422082_00330_39462_7065.N1	16-SEP-2009 22:16:35	Bright	41.500	93	53Bet Peg	2.5200	3100.0	83	39462	No
79	GOM_TRA_1PNPDE20090916_221834_000000452082_00330_39462_7066.N1	16-SEP-2009 22:18:34	Bright	45.000	58	21Alp And	2.0730	11000.	90	39462	No
80	GOM_TRA_1PNPDE20090916_222648_000000402082_00330_39462_7067.N1	16-SEP-2009 22:26:48	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	39462	No
81	GOM_TRA_1PNPDE20090916_222834_000000392082_00330_39462_7068.N1	16-SEP-2009 22:28:34	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	39462	No
82	GOM_TRA_1PNPDE20090916_225110_000000462082_00330_39462_7069.N1	16-SEP-2009 22:51:10	Bright	46.000	24	66Alp Gem	1.5800	10200.	92	39462	No
83	GOM_TRA_1PNPDE20090916_225957_000000552082_00330_39462_7070.N1	16-SEP-2009 22:59:57	Dark	55.000	8	10Alp CMi	0.40000	6500.0	110	39462	No
84	GOM_TRA_1PNPDE20090916_230912_000000682082_00330_39462_7186.N1	16-SEP-2009 23:09:12	Dark	67.500	1	9Alp CMa	-1.4400	11000.	135	39462	No
85	GOM_TRA_1PNPDE20090916_231121_000000512082_00330_39462_7187.N1	16-SEP-2009 23:11:21	Dark	51.000	23	21Eps CMa	1.5020	26000.	102	39462	No
86	GOM_TRA_1PNPDE20090916_231726_000000512082_00331_39463_7188.N1	16-SEP-2009 23:17:26	Dark	51.000	108	Alp Col	2.6520	15200.	102	39463	No
87	GOM_TRA_1PNPDE20090916_232925_000000562082_00331_39463_7189.N1	16-SEP-2009 23:29:25	Dark	56.000	157	The1Eri	2.9060	9300.0	112	39463	No
88	GOM_TRA_1PNPDE20090916_234232_000000552082_00331_39463_7190.N1	16-SEP-2009 23:42:32	Twilight	55.000	52	16Bet Cet	2.0370	4500.0	110	39463	No
89	GOM_TRA_1PNPDE20090916_235320_000000392082_00331_39463_7191.N1	16-SEP-2009 23:53:20	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	39463	No
90	GOM_TRA_1PNPDE20090916_235443_000000482082_00331_39463_7192.N1	16-SEP-2009 23:54:43	Bright	47.500	140	88Gam Peg	2.8340	26000.	95	39463	No
91	GOM_TRA_1PNPDE20090916_235711_000000392082_00331_39463_7193.N1	16-SEP-2009 23:57:11	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	39463	No
92	GOM_TRA_1PNPDE20090916_235909_000000462082_00331_39463_7194.N1	16-SEP-2009 23:59:09	Bright	46.000	58	21Alp And	2.0730	11000.	92	39463	No

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



4. Overview of dark signal processing per product

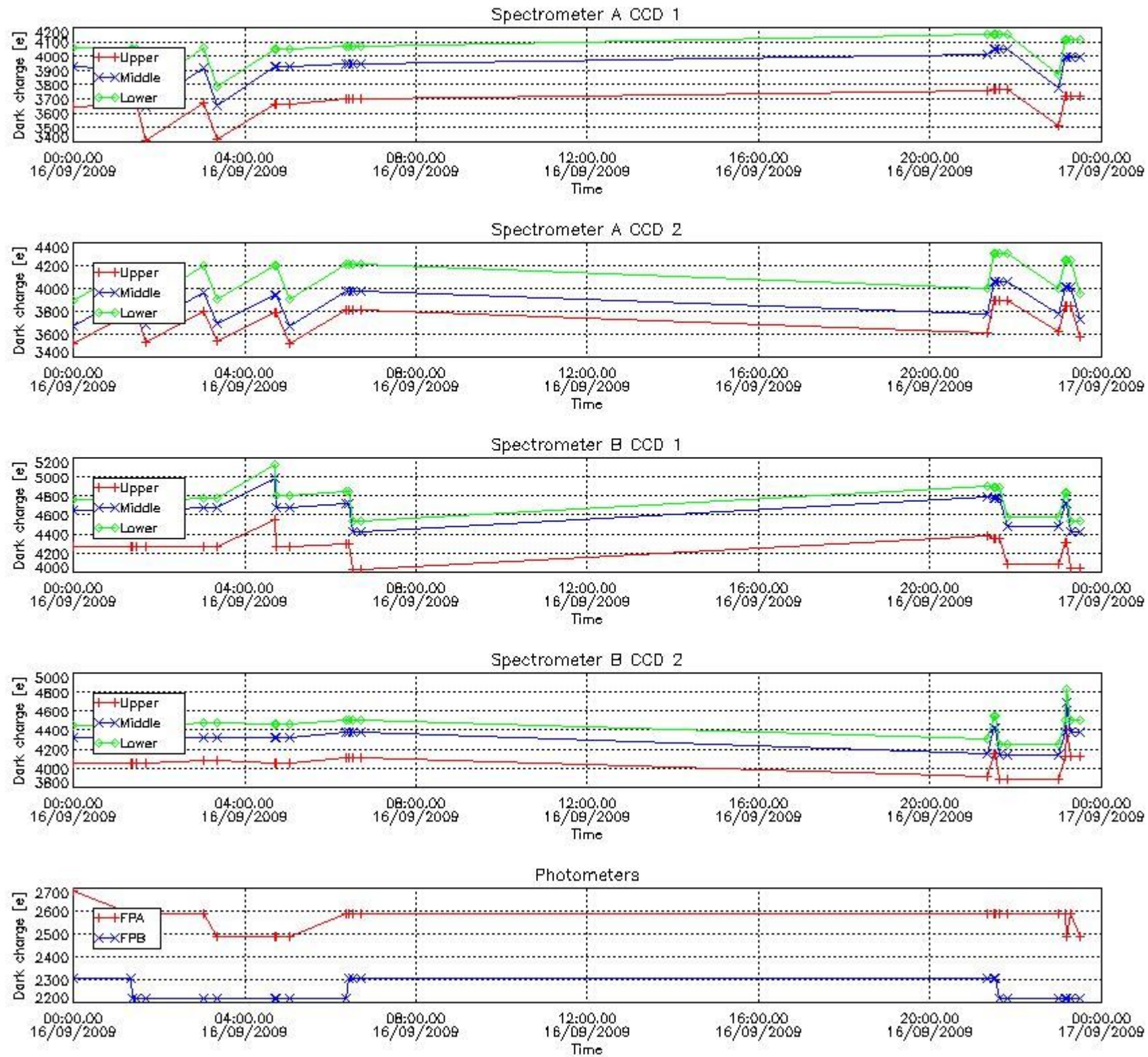
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090916_202120_000000562082_00329_39461_6914.N1	DC map used
GOM_TRA_1PNPDE20090916_203208_000000572082_00329_39461_6915.N1	DC map used
GOM_TRA_1PNPDE20090916_203333_000000472082_00329_39461_6916.N1	DC map used
GOM_TRA_1PNPDE20090916_203600_000000402082_00329_39461_6917.N1	DC map used
GOM_TRA_1PNPDE20090916_203759_000000462082_00329_39461_6918.N1	DC map used
GOM_TRA_1PNPDE20090916_204612_000000432082_00329_39461_6919.N1	DC map used
GOM_TRA_1PNPDE20090916_204759_000000442082_00329_39461_6920.N1	DC map used
GOM_TRA_1PNPDE20090916_211034_000000452082_00329_39461_6921.N1	DC map used
GOM_TRA_1PNPDE20090916_211921_000000632082_00329_39461_6922.N1	DC map used

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



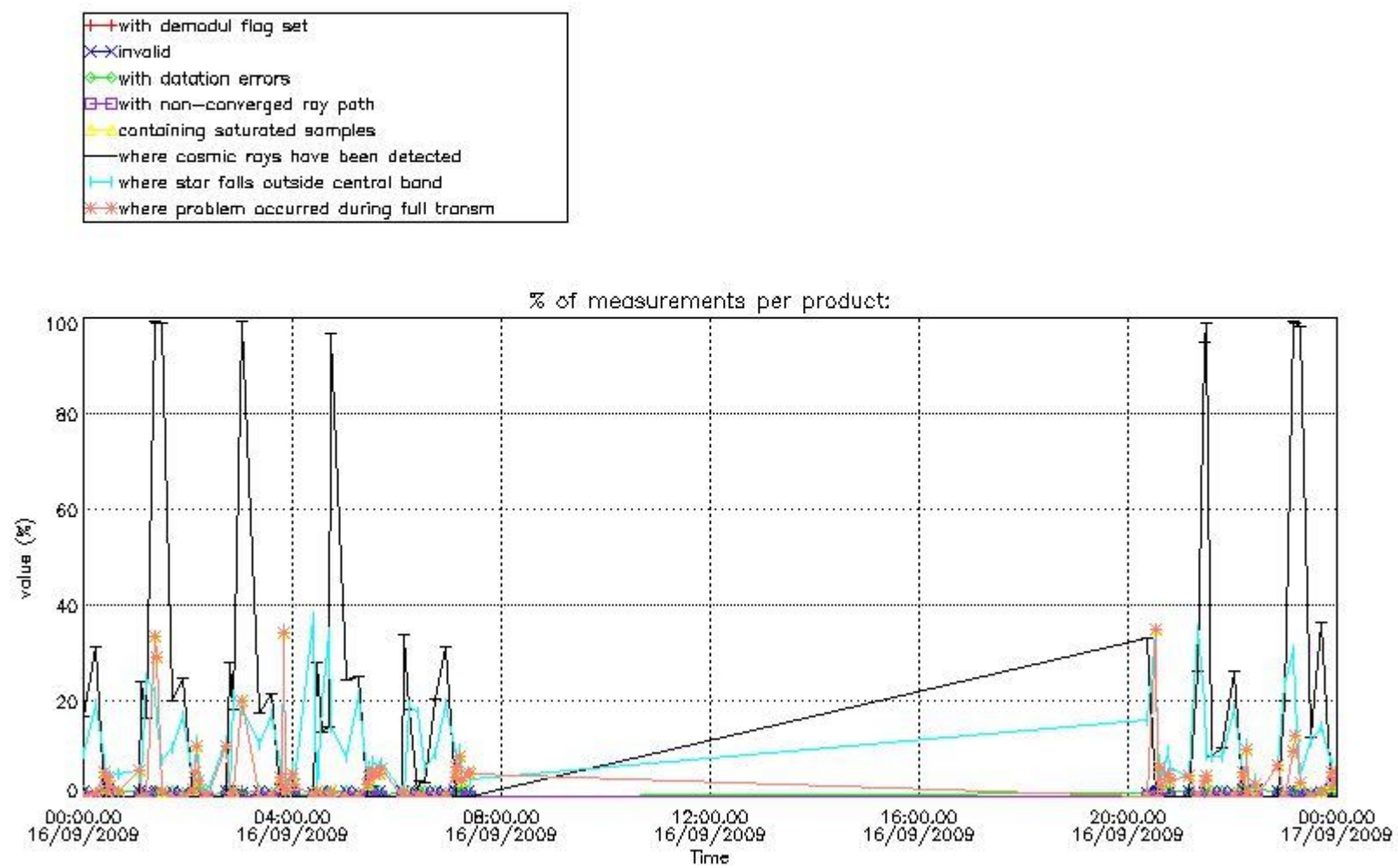
5. Demodulation flag and quality information monitoring

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.

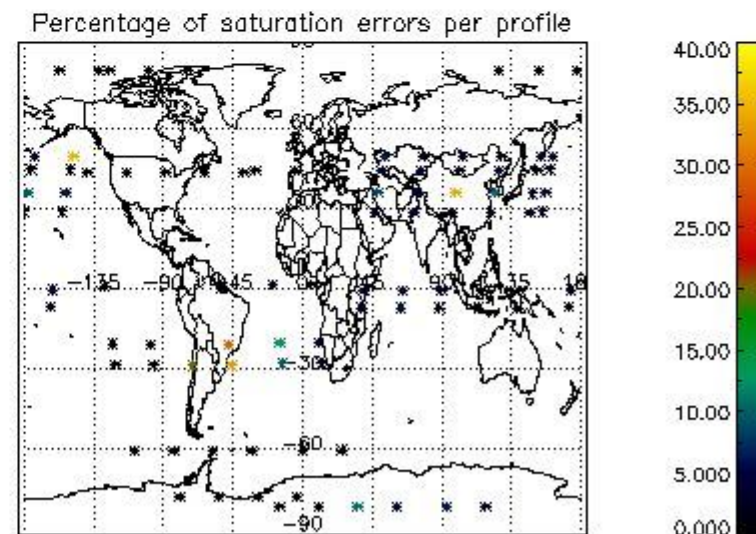
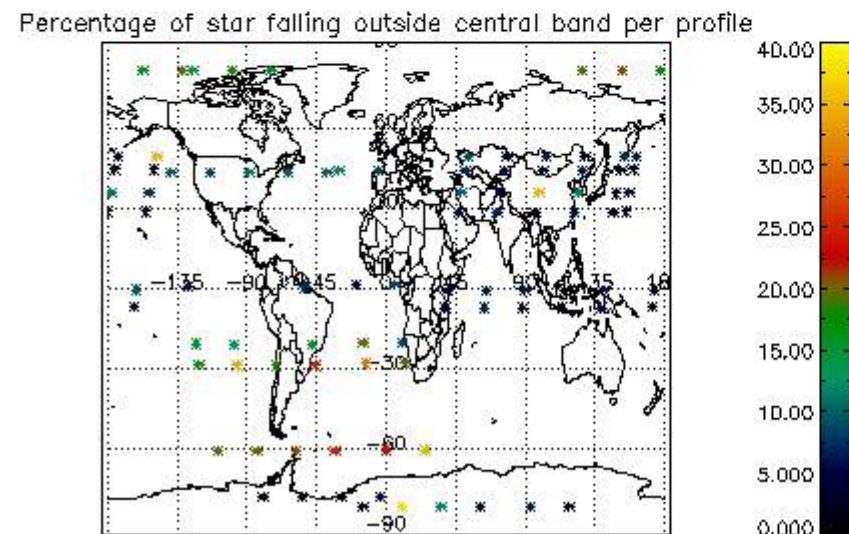
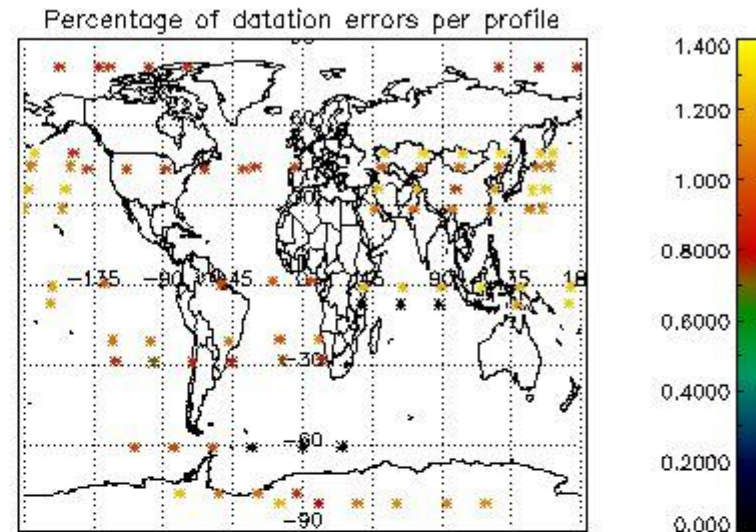
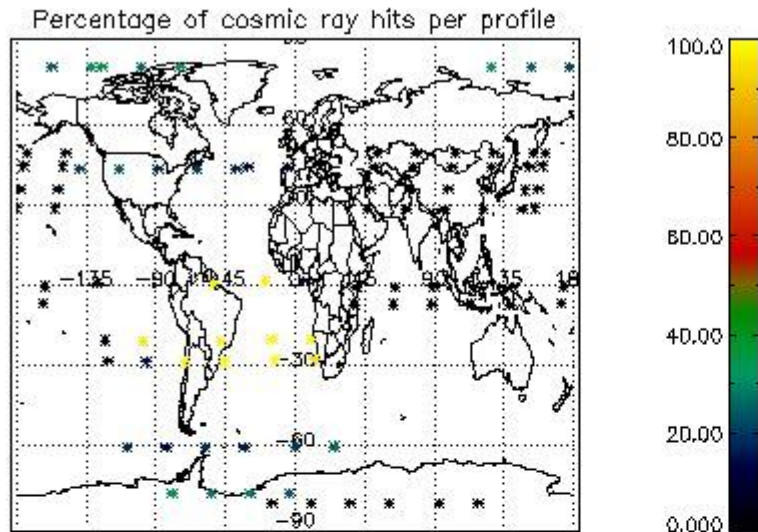
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	33.6957 %
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)



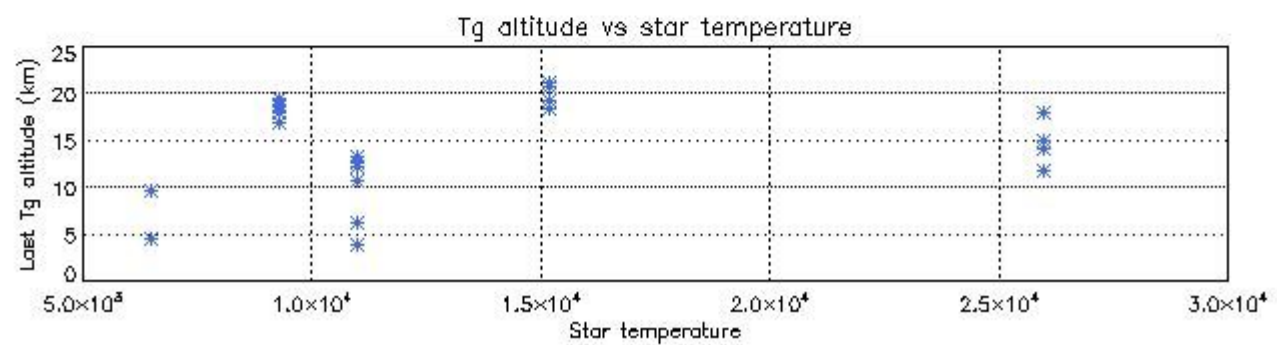
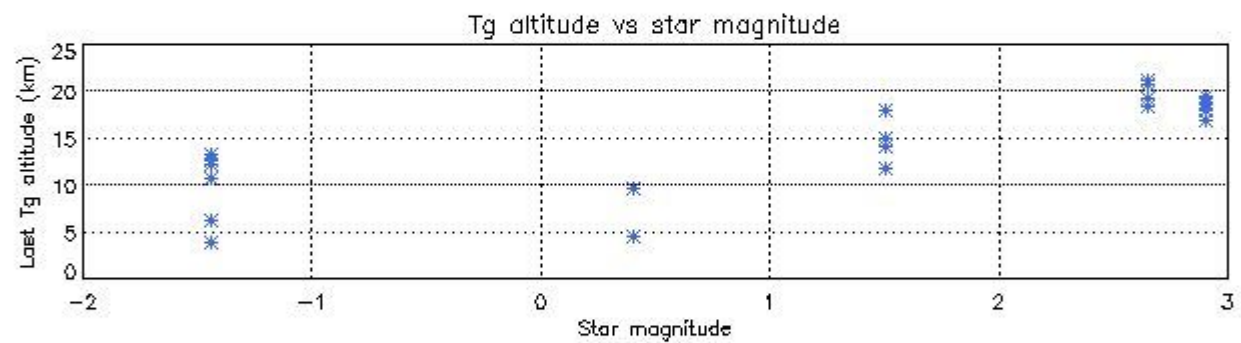
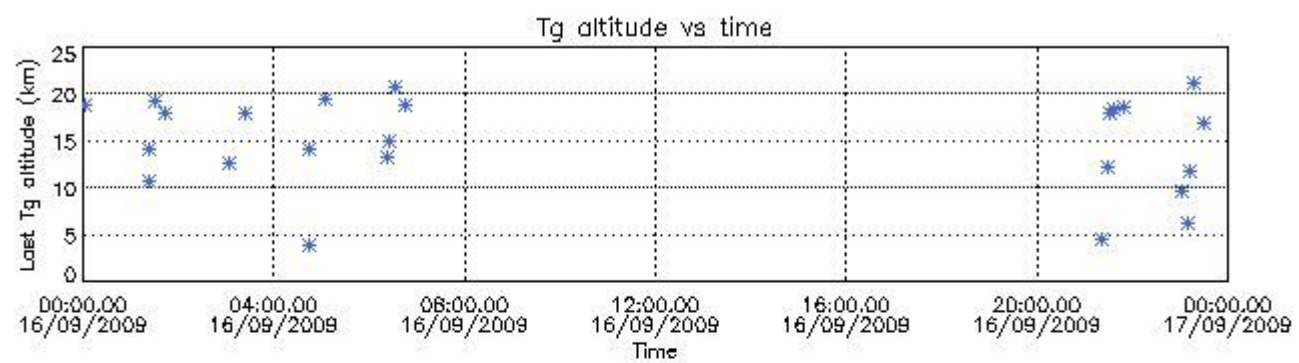
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.741	20.448	10.495
St. deviation:	5.0058	4.9586	1.0331
Maximum:	21.150	28.621	11.182
Minimum:	3.7762	3.8962	8.9641
Number of data:	24.000	52.000	4.0000

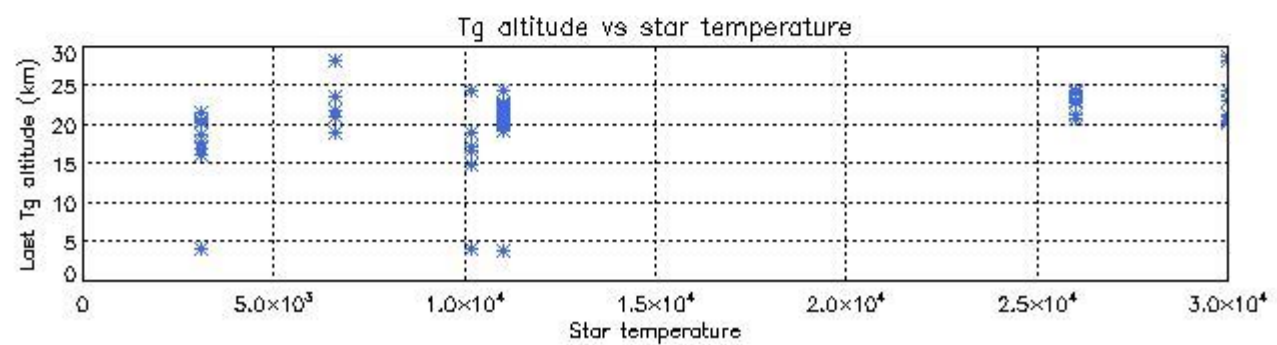
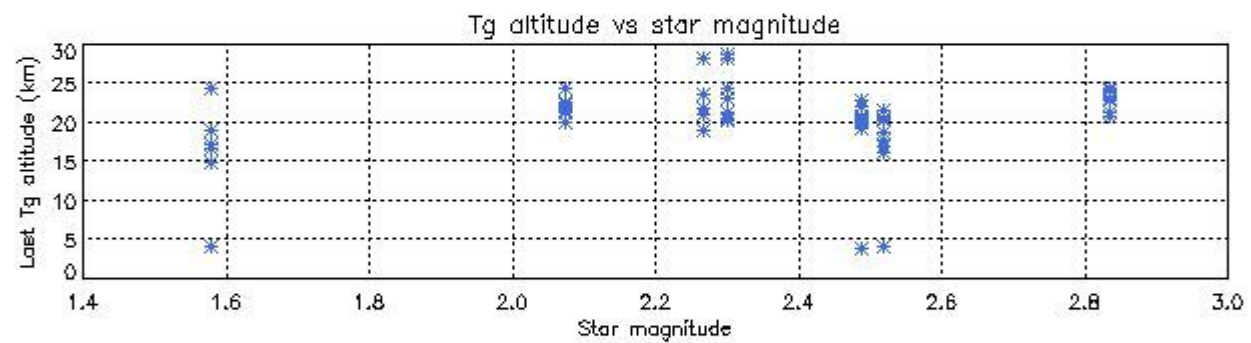
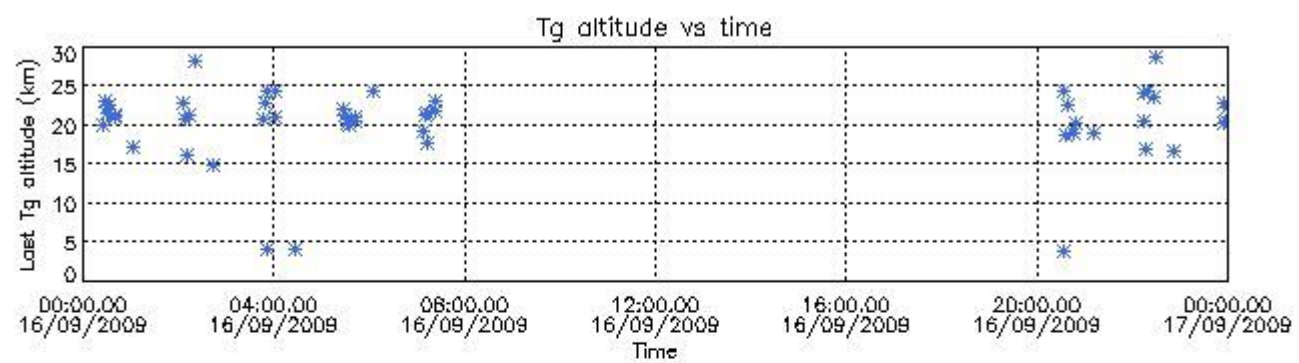
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



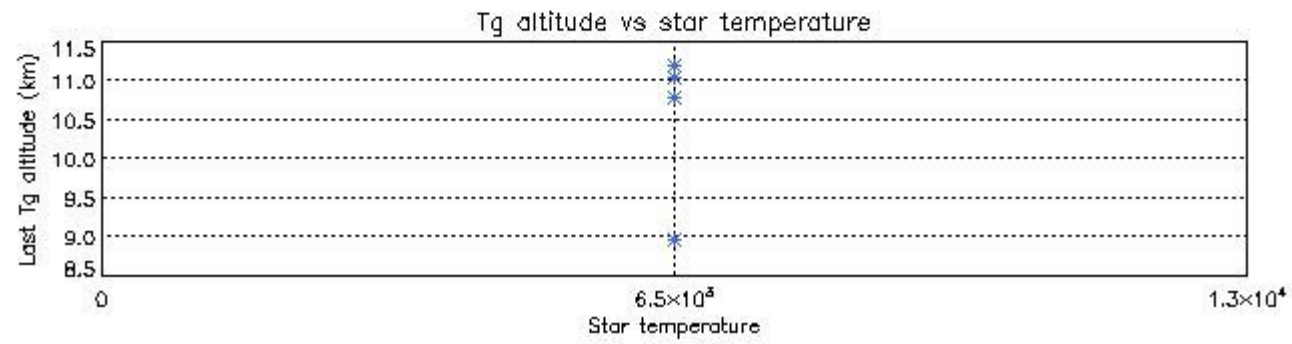
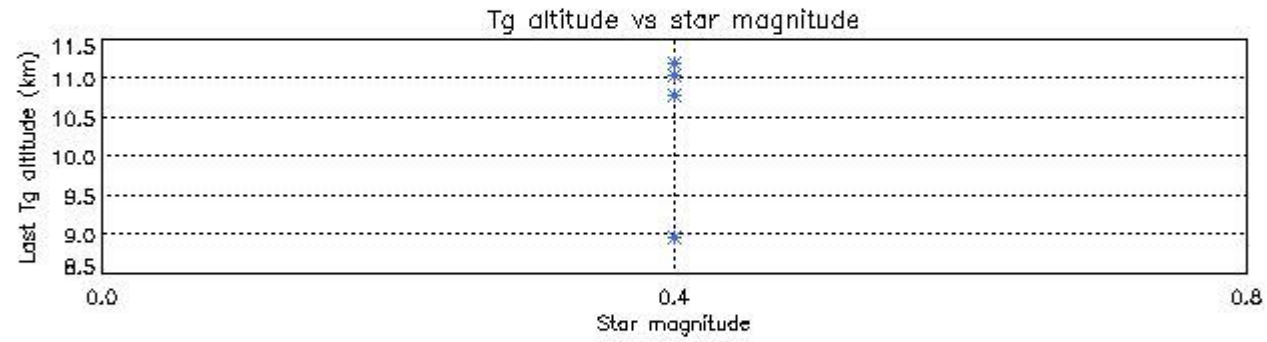
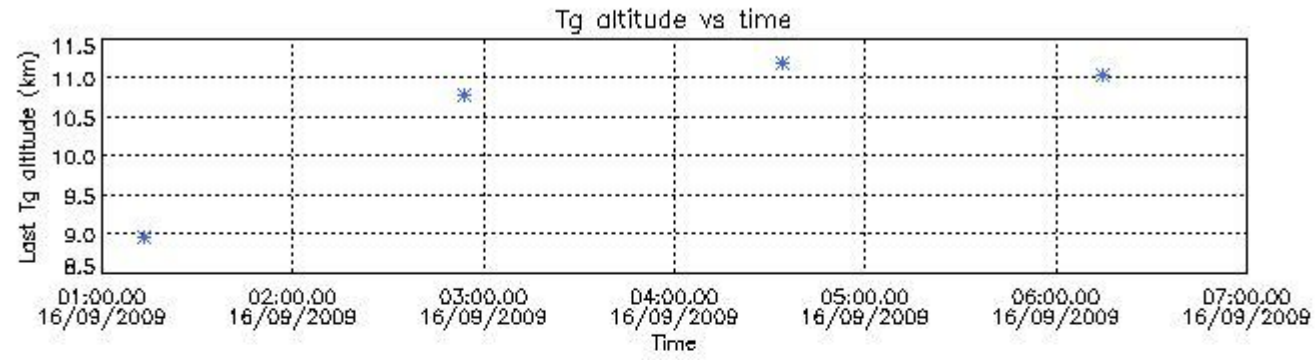
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

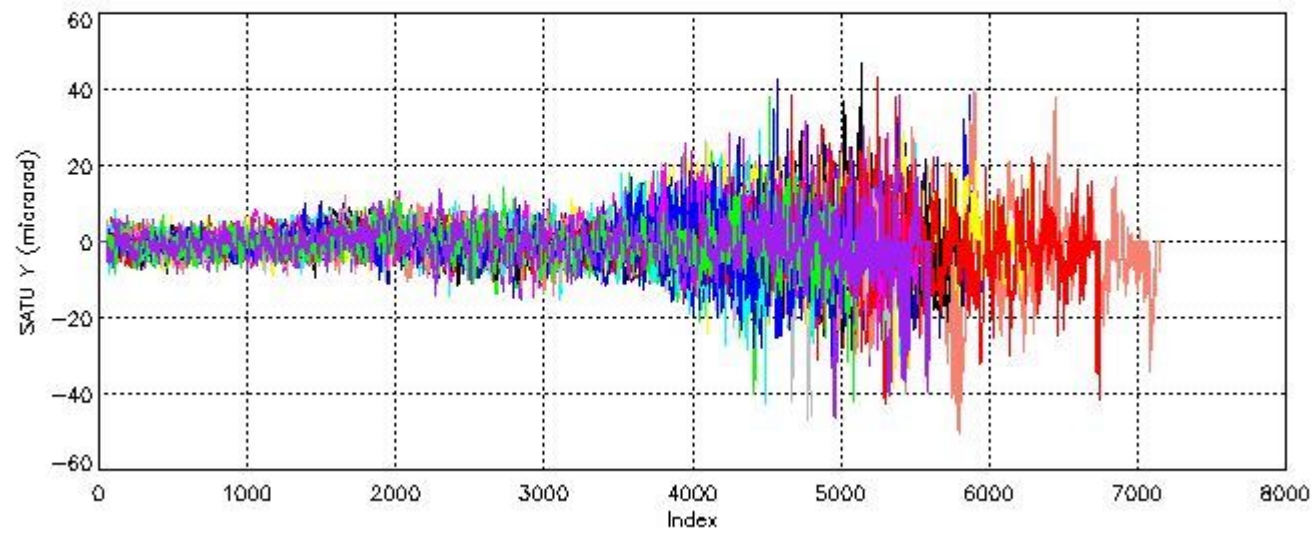
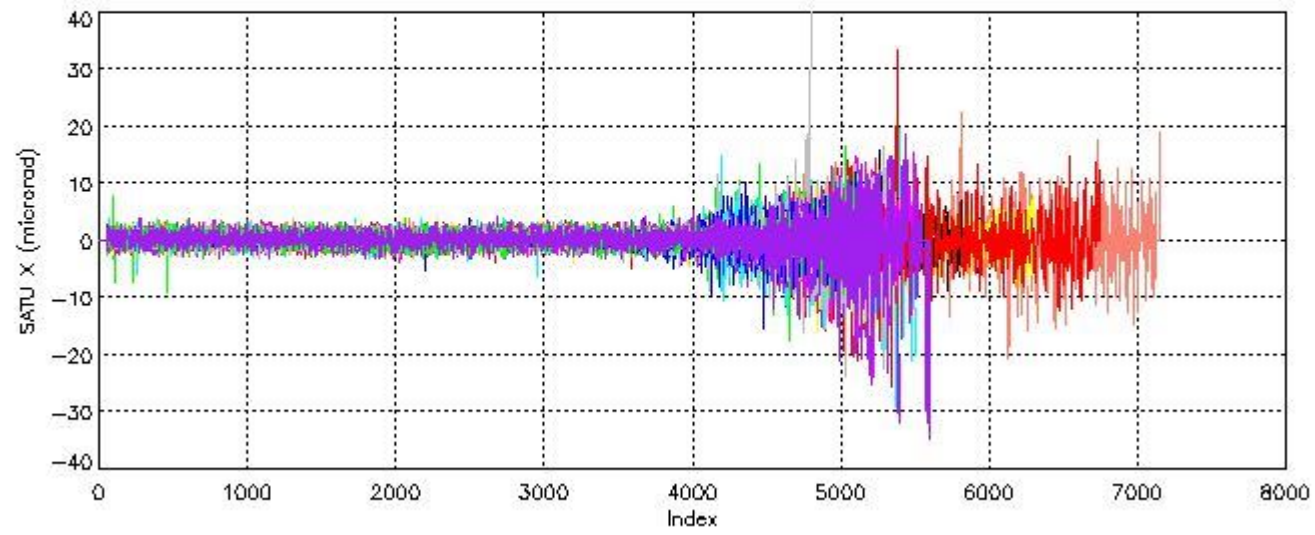


7. Star Acquisition and Tracking Unit (SATU)

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:	0.24764	-0.57768	0.26503	-0.53792
St. deviation:	0.62181	2.0160	0.86702	2.2465
Maximum:	7.6000	8.3000	7.3000	9.5000
Minimum:	-9.2000	-8.8000	-5.7000	-12.300

Number of data:	28450.	28450.	53400.	53400.
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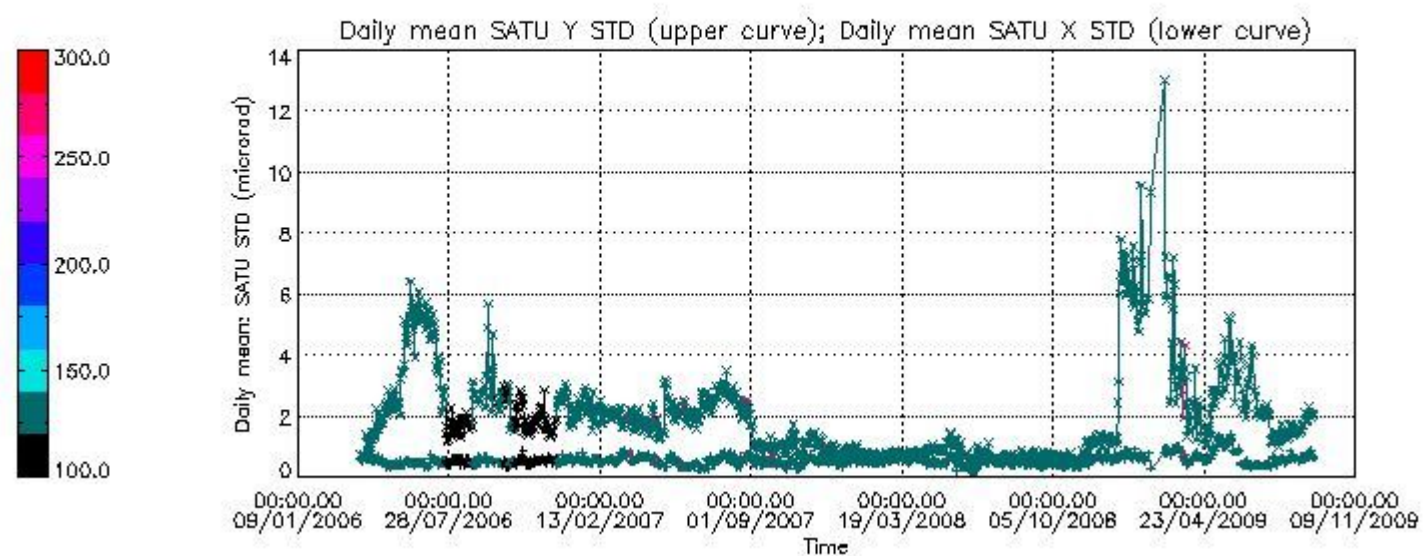
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

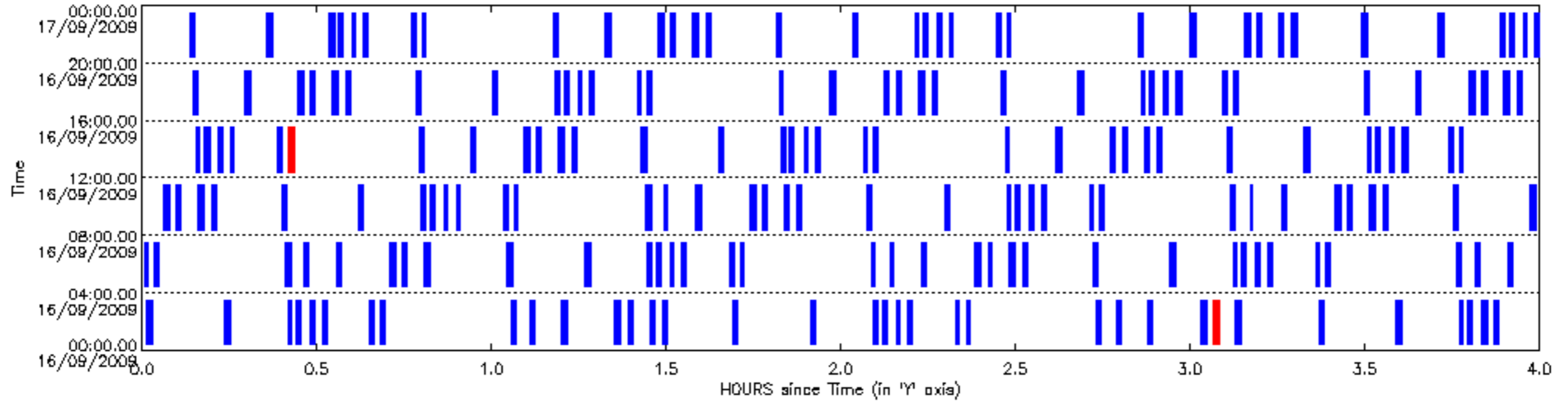
Lower curve: STD of SATU X axis

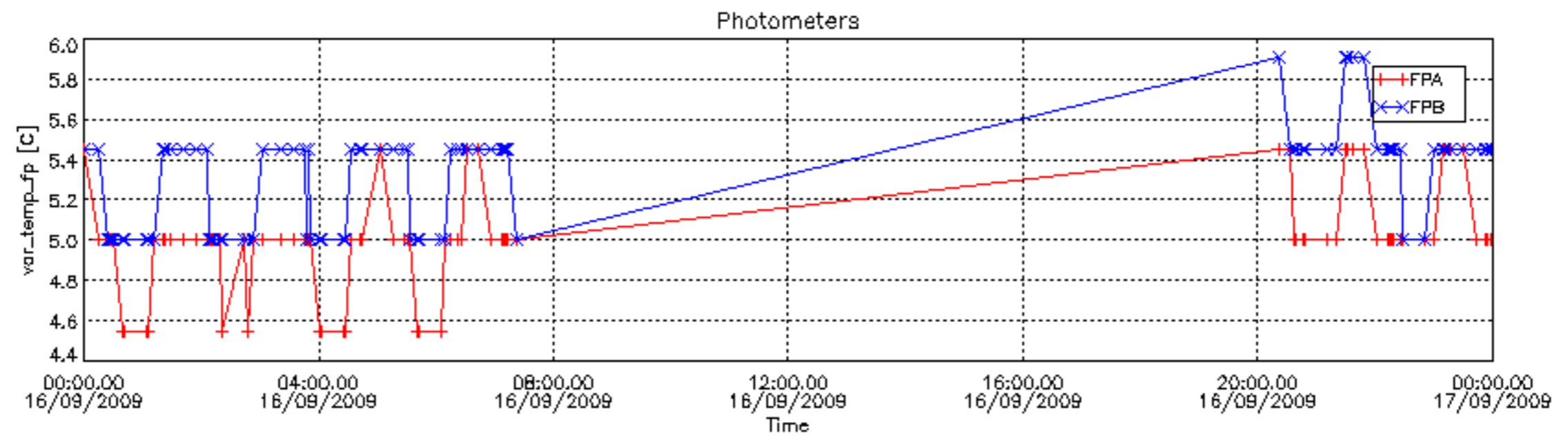
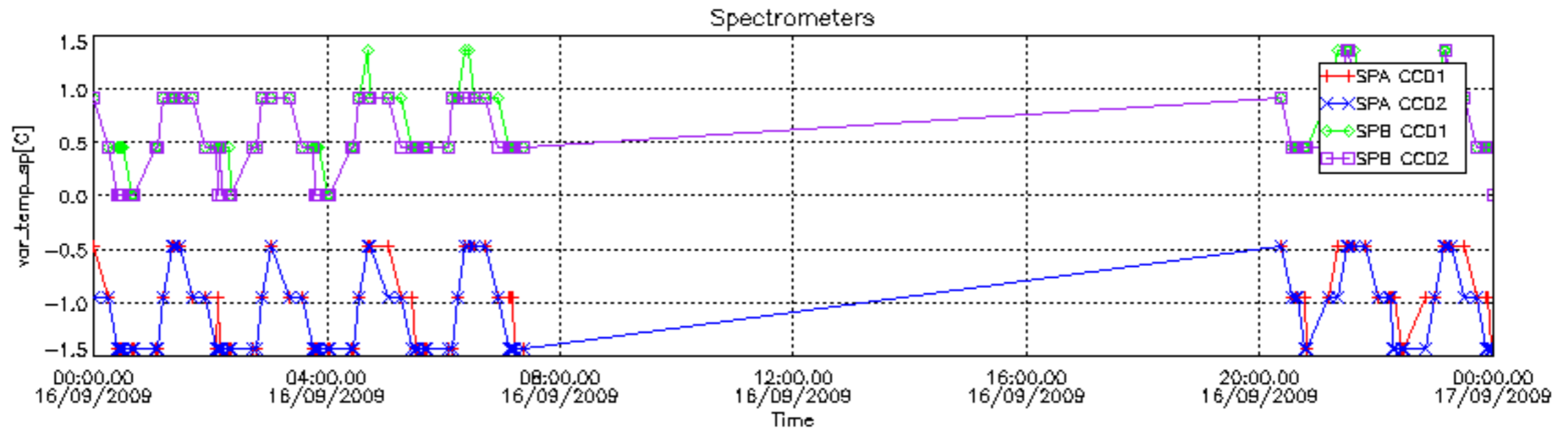


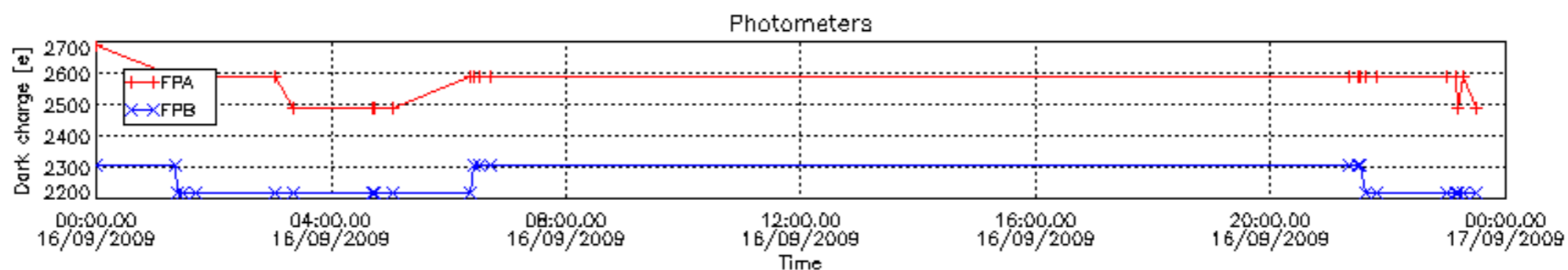
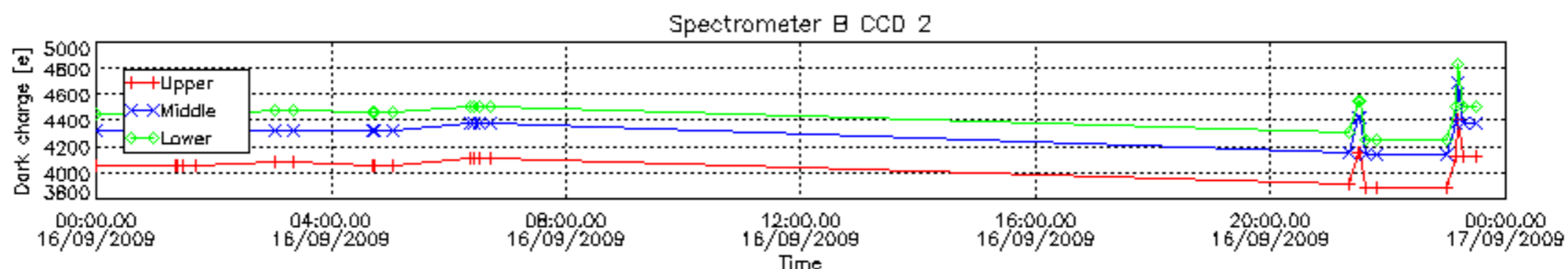
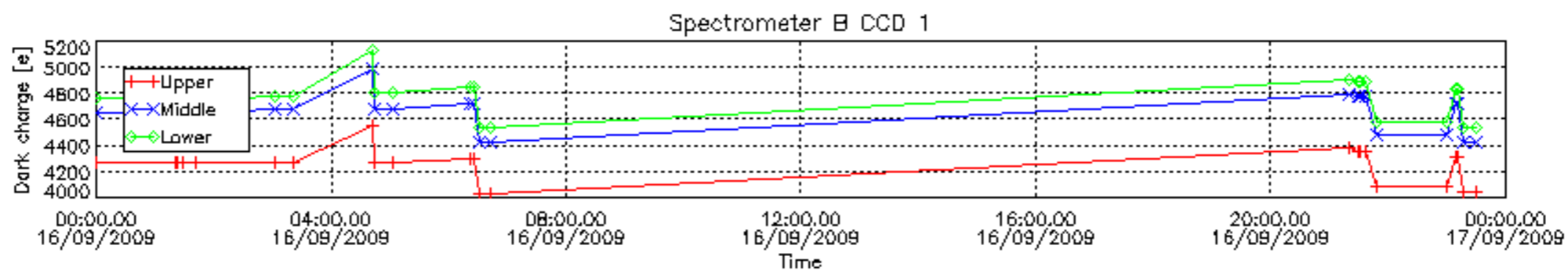
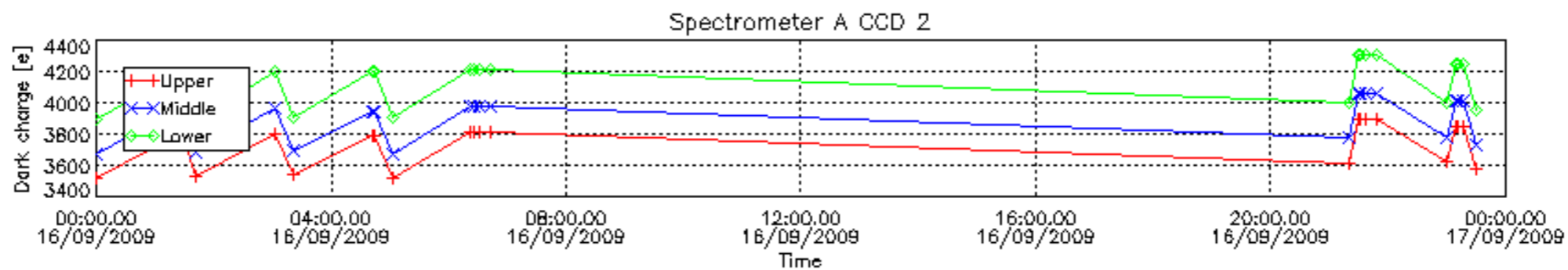
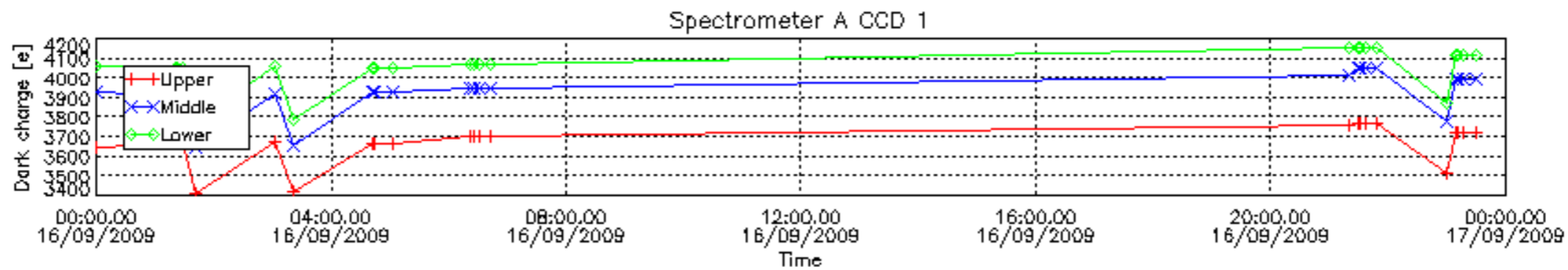
8. Auxiliary Data Files used for the production reported in section 2.4

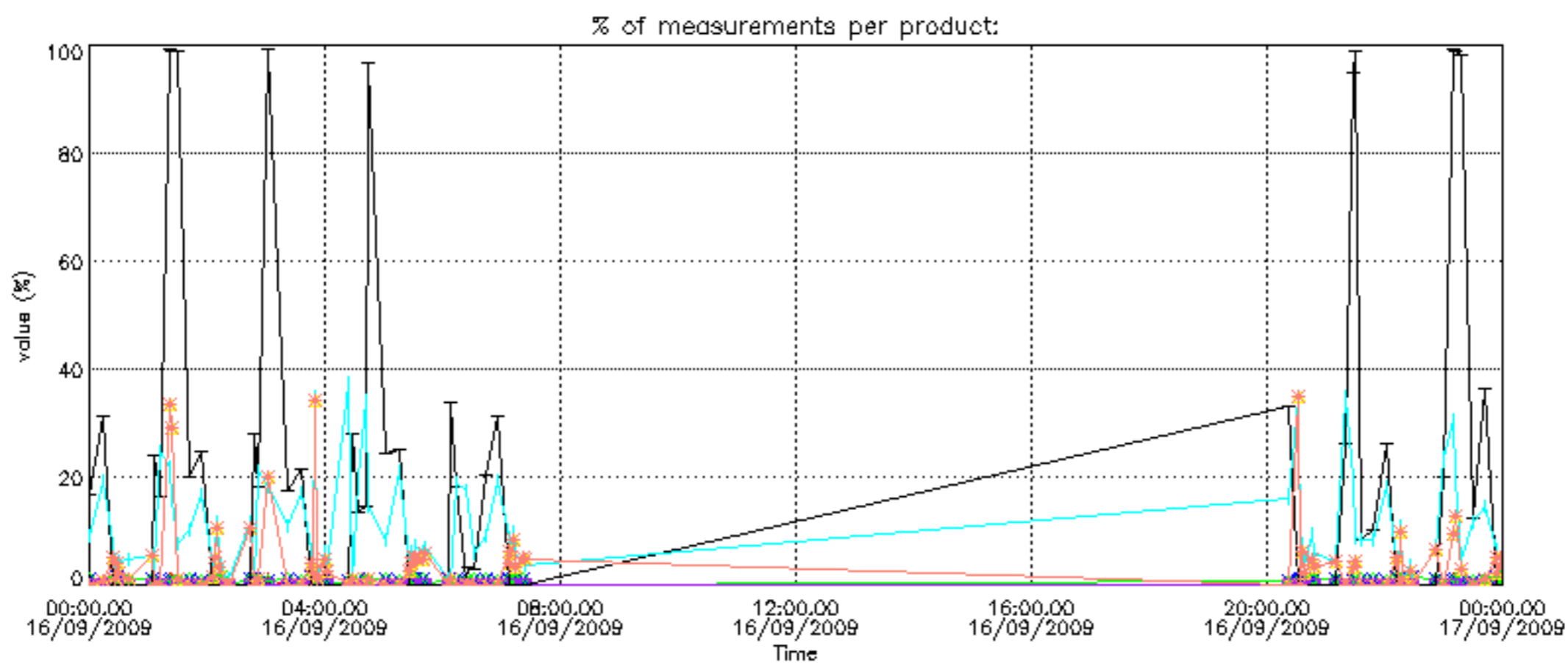
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	16-SEP-2009 00:00:48
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090915_081651_20090913_000000_20100101_000000	1	16-SEP-2009 00:00:48
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	16-SEP-2009 00:00:48
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-SEP-2009 00:00:48
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	16-SEP-2009 00:00:48
ECMWF_FILE	AUX_ECF_AXNECM20090915_064125_20090915_210000_20090916_090000	1	16-SEP-2009 00:00:48
ECMWF_FILE	AUX_ECF_AXNECM20090915_182126_20090916_030000_20090916_150000	35	16-SEP-2009 04:24:34
ECMWF_FILE	AUX_ECF_AXNECM20090916_064113_20090916_150000_20090917_030000	62	16-SEP-2009 20:21:20
ECMWF_FILE	AUX_ECF_AXNECM20090916_064113_20090916_210000_20090917_090000	71	16-SEP-2009 21:28:35
OPTIONAL_ECMWF_FILE	MISSING	1	16-SEP-2009 00:00:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090915_233341_000057382082_00316_39448_8768.N1	1	16-SEP-2009 00:00:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090916_011438_000044632082_00317_39449_8769.N1	23	16-SEP-2009 02:43:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090916_023420_000054192082_00318_39450_8770.N1	35	16-SEP-2009 04:24:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090916_040958_000057382082_00319_39451_8771.N1	48	16-SEP-2009 06:05:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090916_200620_000041442082_00329_39461_8773.N1	62	16-SEP-2009 20:21:20
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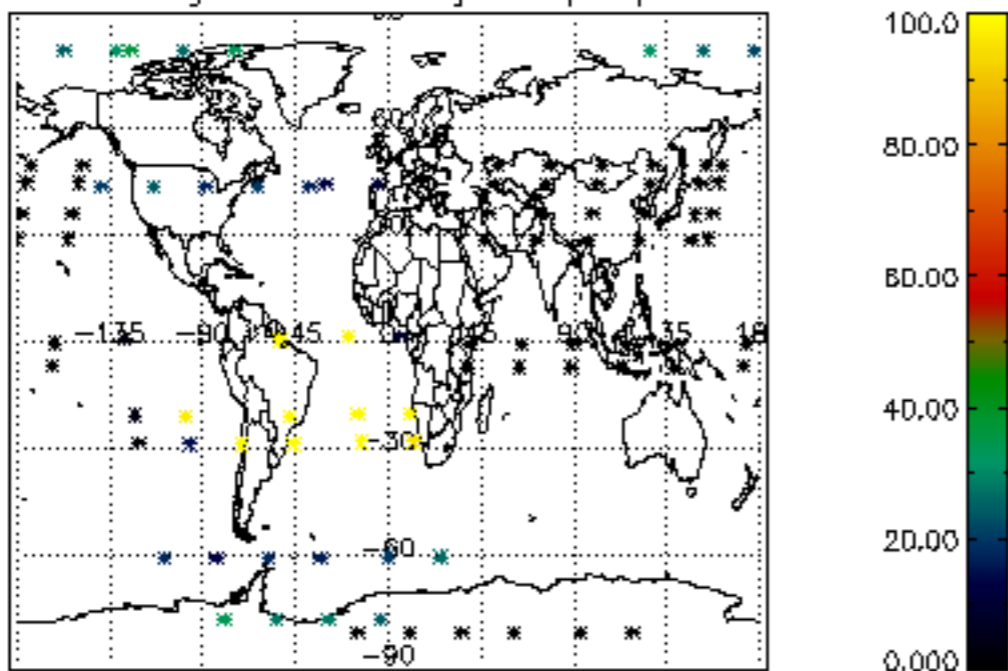




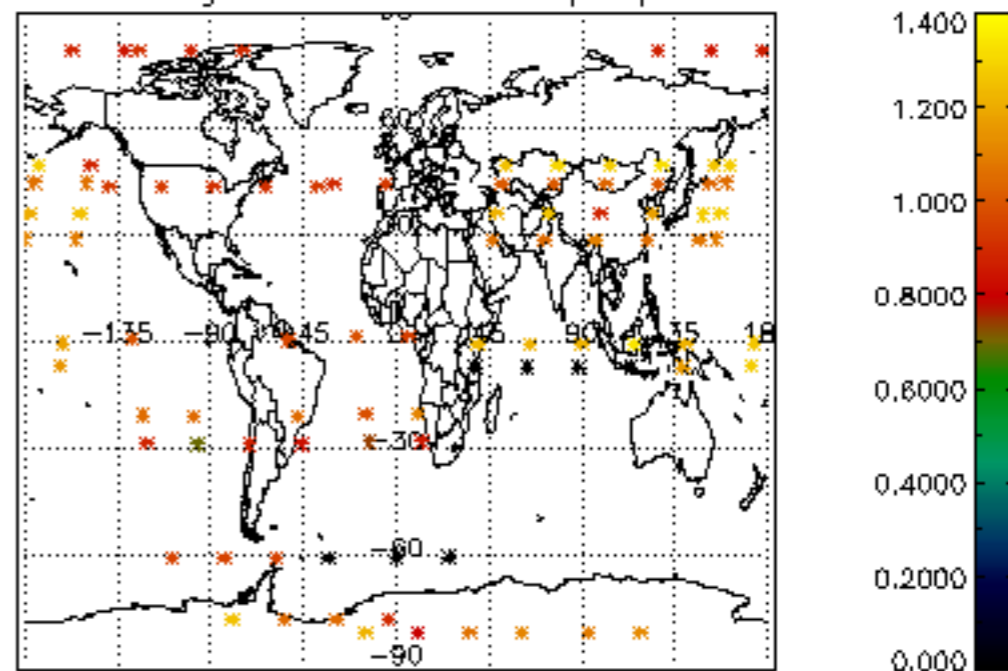




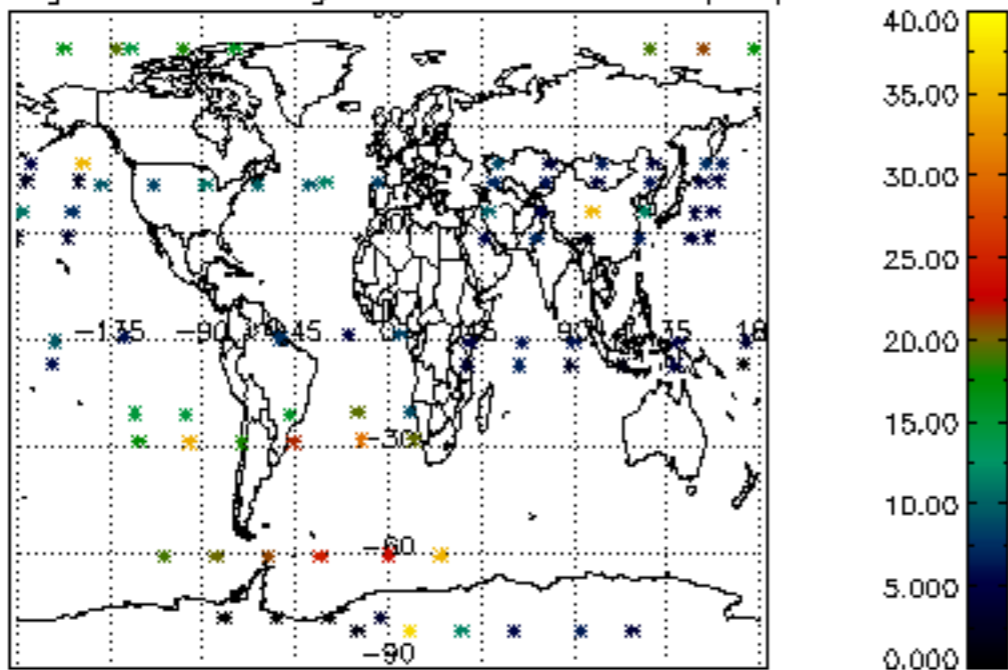
Percentage of cosmic ray hits per profile



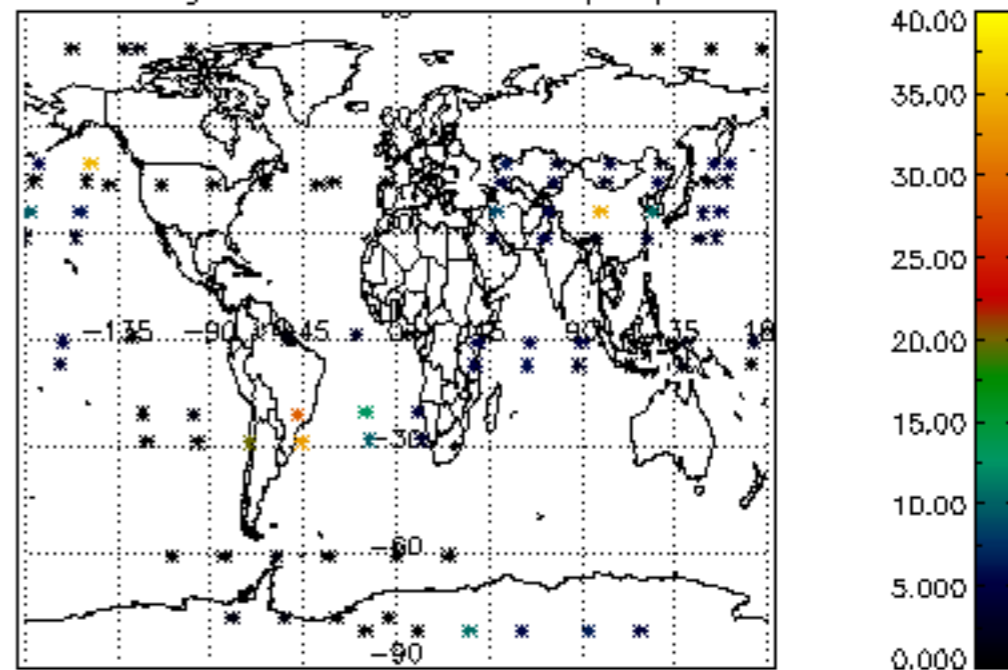
Percentage of datation errors per profile



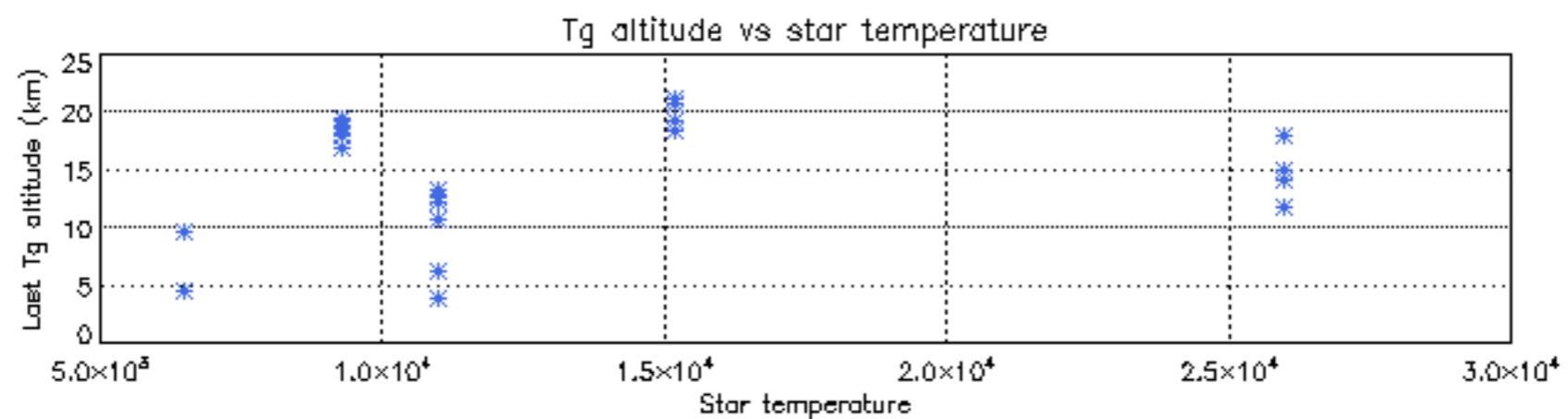
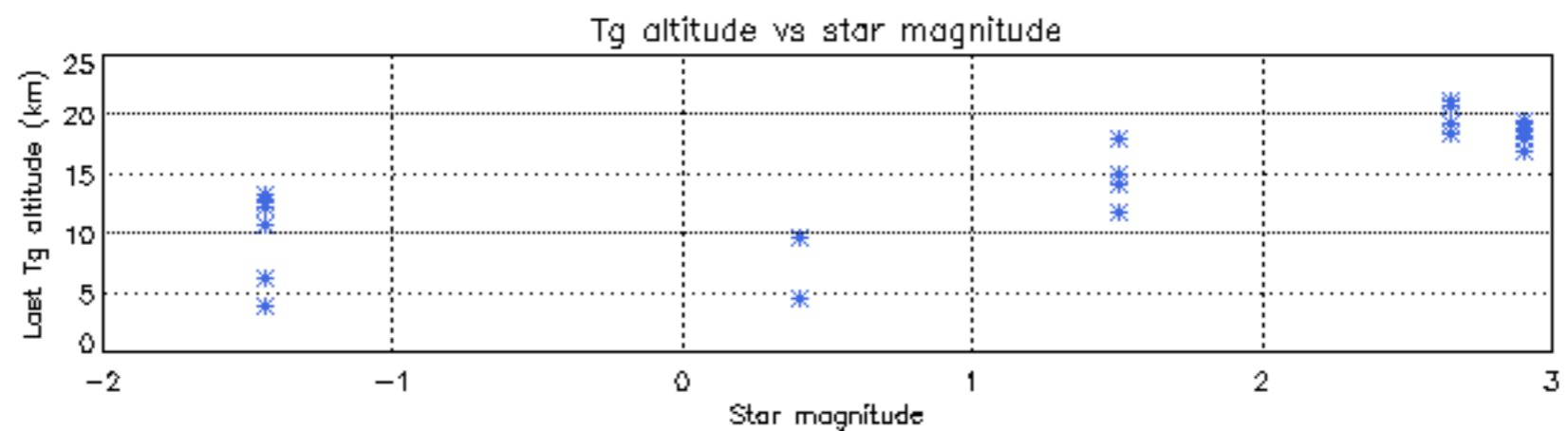
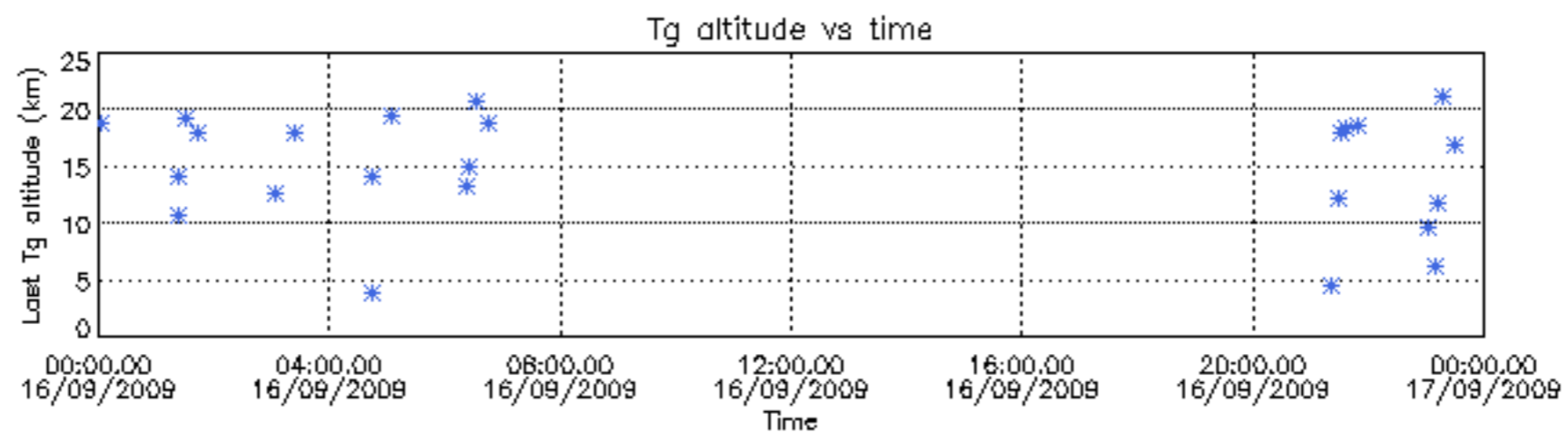
Percentage of star falling outside central band per profile



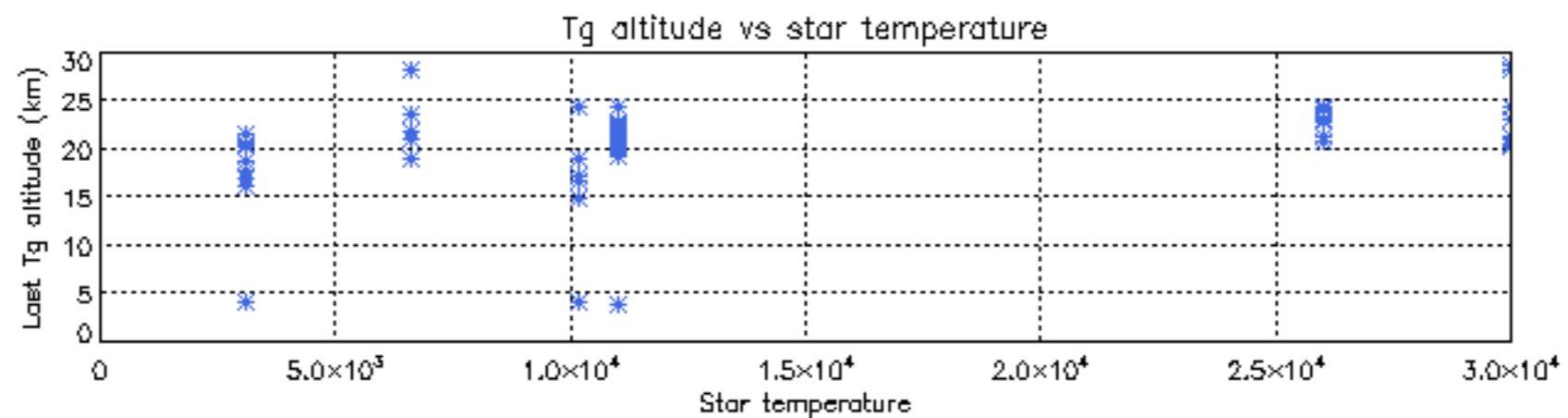
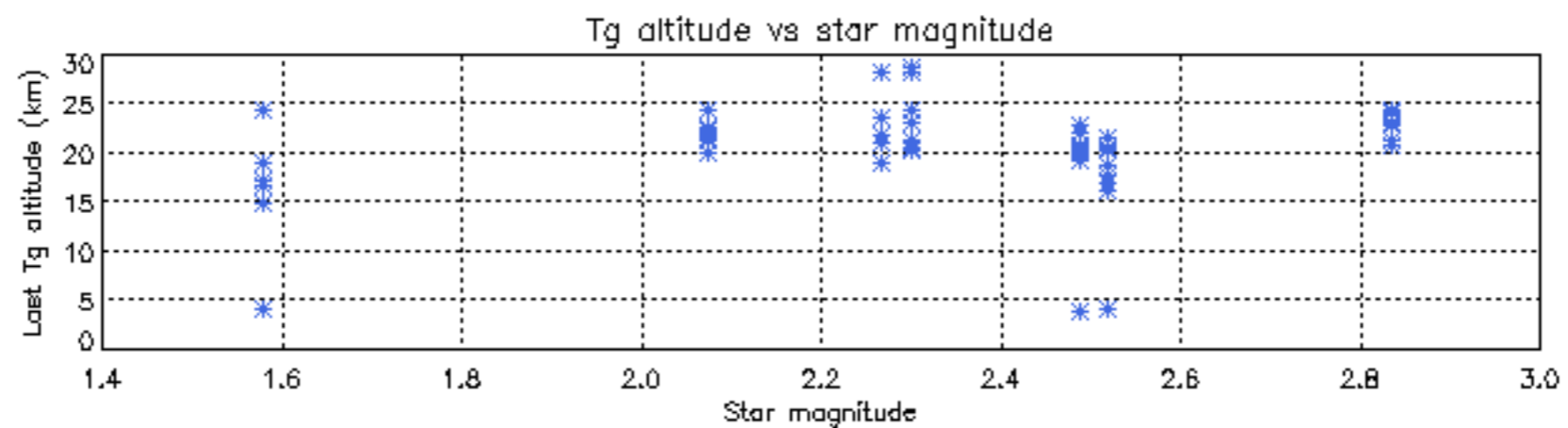
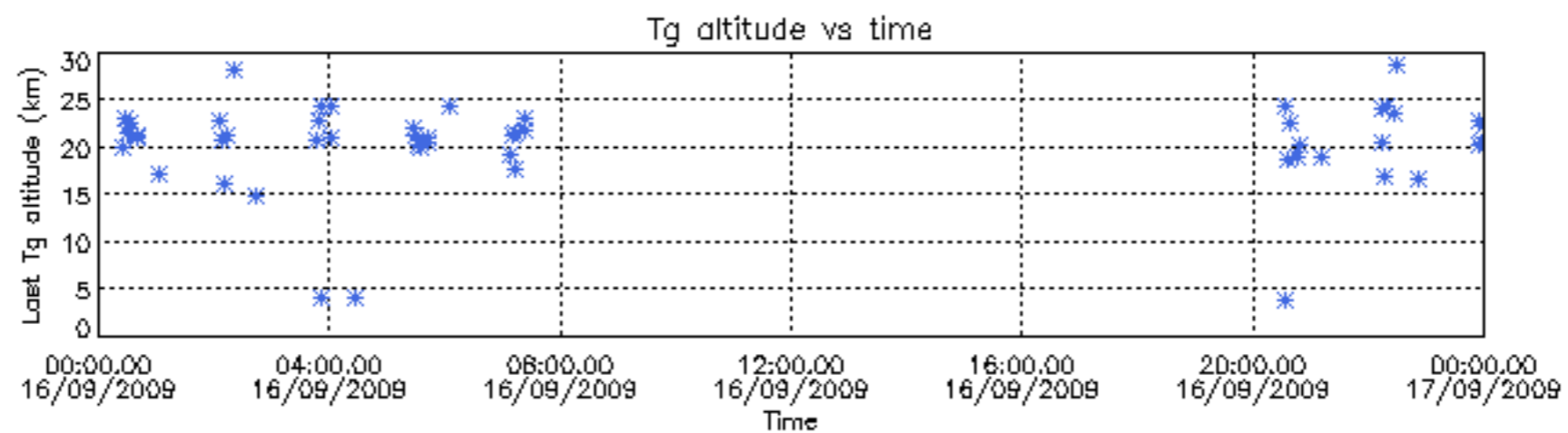
Percentage of saturation errors per profile



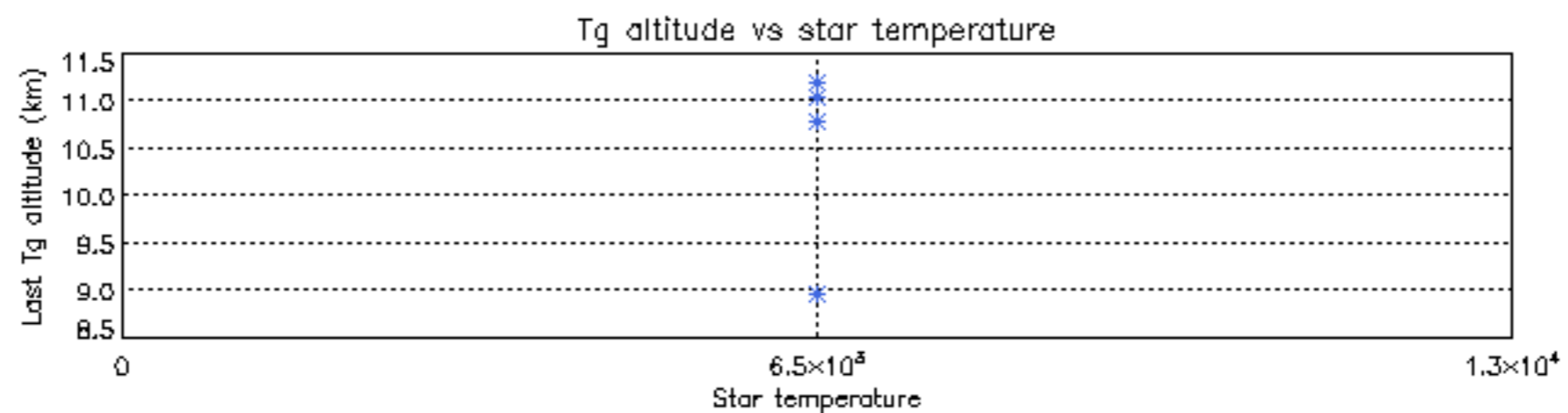
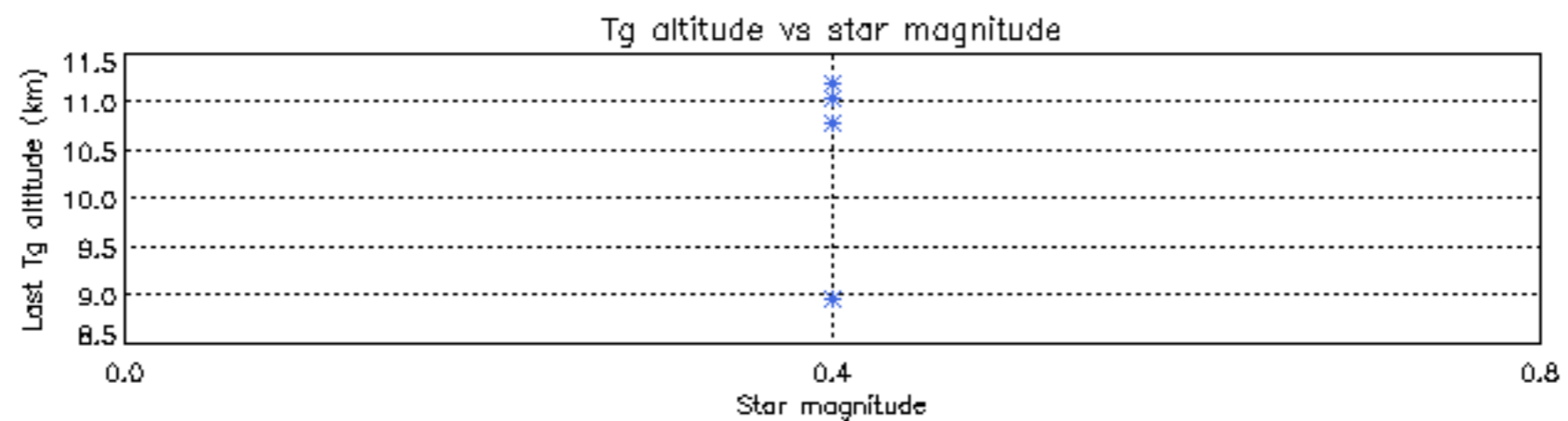
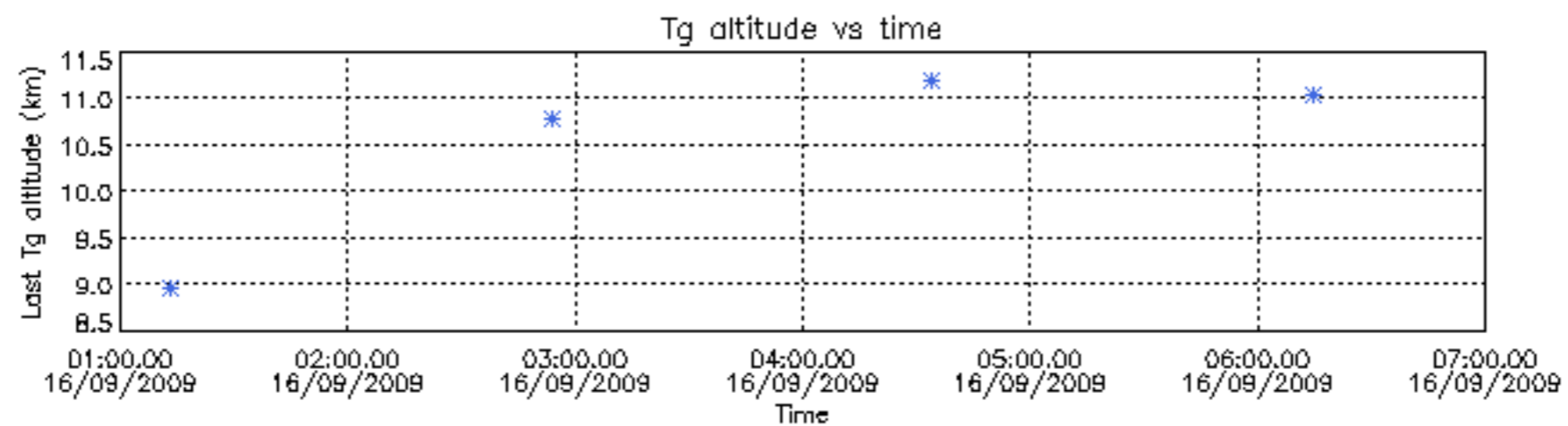
Tangent altitude at which the star is lost

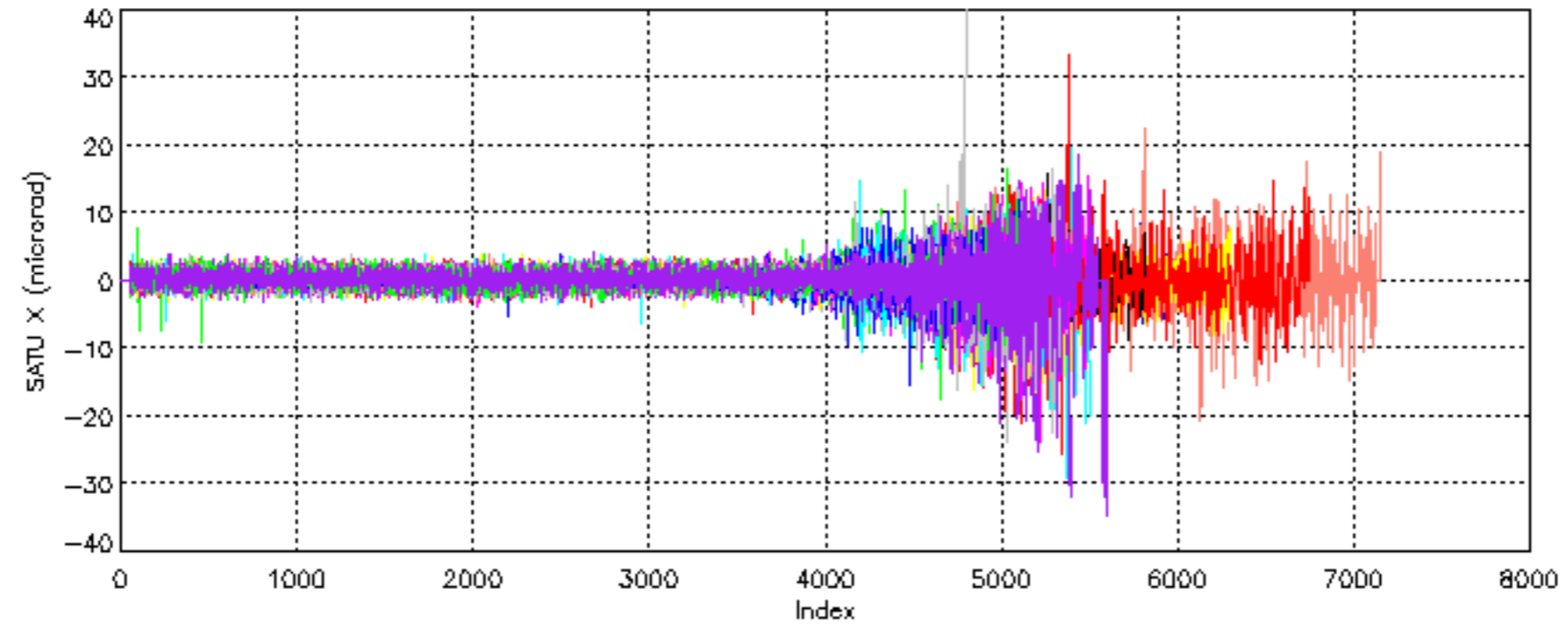


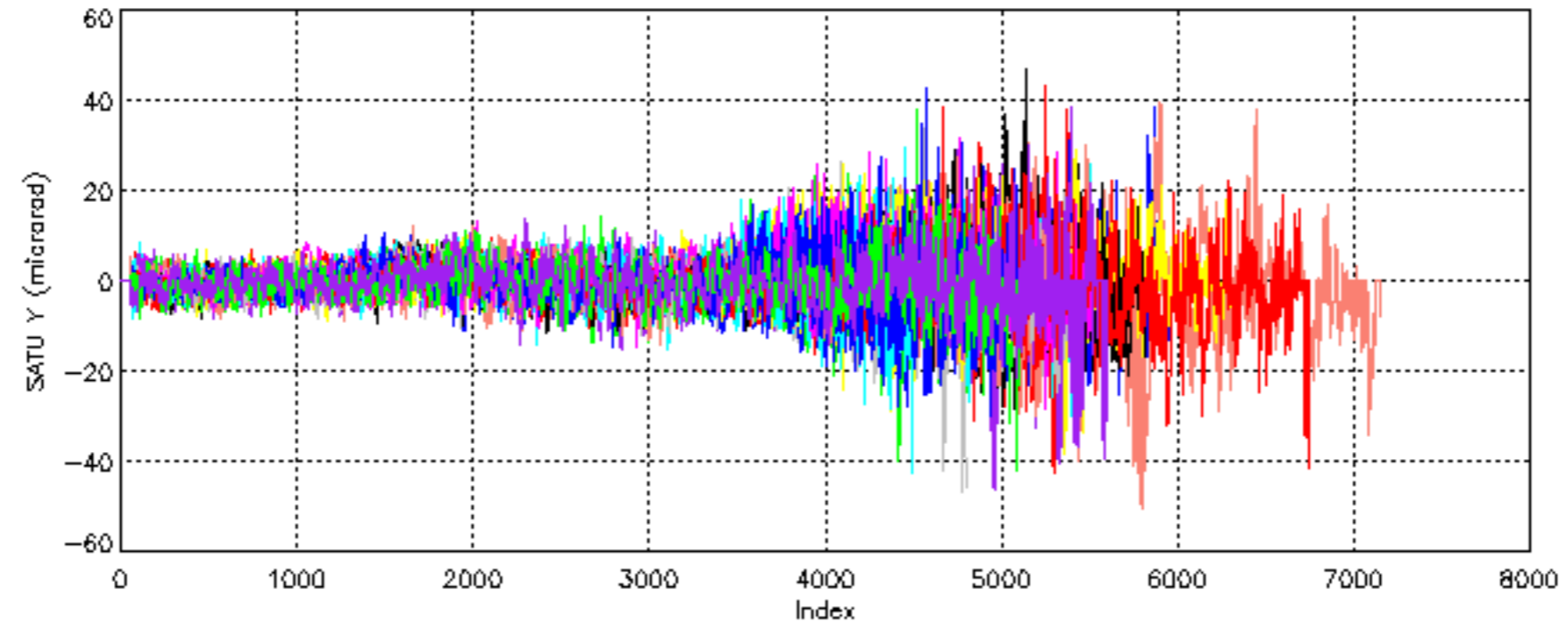
Tangent altitude at which the star is lost

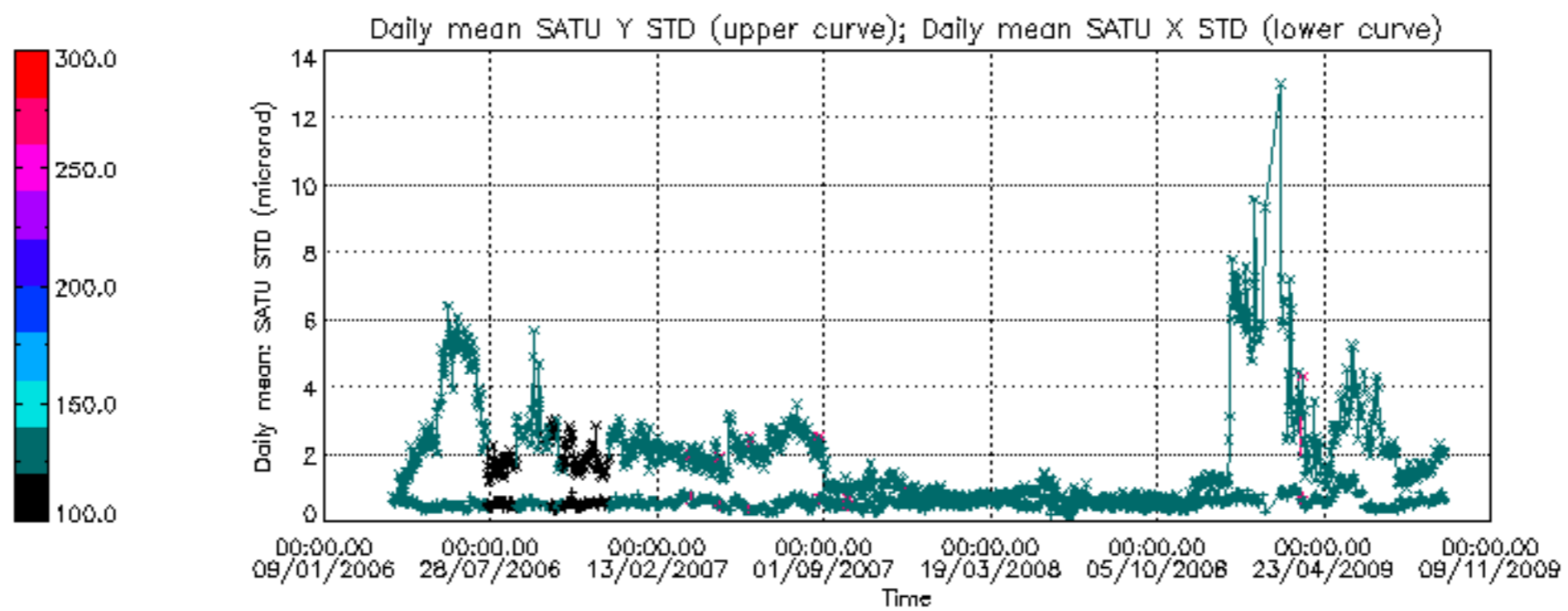


Tangent altitude at which the star is lost









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 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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 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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 11; 3142.5; 01-SEP-2009 03:33:31; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 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
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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
 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
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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
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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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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
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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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4;-1242.1; 01-SEP-2009 07:22:15; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;39238
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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
9; -233.0; 01-SEP-2009 07:39:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39238
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 4; 2416.5; 14-SEP-2009 18:18:10; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;39431
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5; 3017.2; 17-SEP-2009 13:32:07; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39471
6; 3122.4; 17-SEP-2009 13:33:52; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39471

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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
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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
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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
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8; 1532.2; 18-SEP-2009 05:53:21; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;39481
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12; 3013.1; 18-SEP-2009 06:18:02; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39481
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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
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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
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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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 6; 1539.9; 22-SEP-2009 02:06:24; Dark ; 52.5; 52; 16Bet Cet ; 2.04; 4500;occ; 105; 0;39536
 7; 2224.8; 22-SEP-2009 02:17:49; Bright; 44.5; 140; 88Gam Peg ; 2.83; 26000;occ; 89; 0;39536
 8; 2484.5; 22-SEP-2009 02:22:09; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;39536
 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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 5; -43.3; 22-SEP-2009 03:20:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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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7; 812.8; 22-SEP-2009 05:15:29; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;39538
8; 1540.4; 22-SEP-2009 05:27:37; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 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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4; 3086.9; 22-SEP-2009 07:33:59; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;39539
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5; 5666.6; 22-SEP-2009 16:39:58; Dark ; 60.5; 1; 9Alp CMA ; -1.44; 11000;occ; 121; 0;39544
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5; 4495.1; 22-SEP-2009 18:01:03; Bright; 48.5; 24; 66Alp Gem ; 1.58; 10200;occ; 97; 0;39545
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9; 6169.9; 22-SEP-2009 18:28:58; Dark ; 53.5; 108; Alp Col ; 2.65; 15200;occ; 107; 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
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
7; 5669.0; 22-SEP-2009 20:01:13; Dark ; 27.0; 1; 9Alp CMA ; -1.44; 11000;occ; 54; 0;39546
8; 5816.4; 22-SEP-2009 20:03:40; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;39546
9; 6003.1; 22-SEP-2009 20:06:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39546
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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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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
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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
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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	
9;	5161.7;	30-SEP-2009	20:41:36;	Dark	;	36.0;	8;	10Alp CMi	;	0.40;	6500;occ;	72;	0;	39661
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