

GOMOS Daily Report 25-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	27SEP2009 04:30:53
Data source version	GOMOS/5.00
Start time of products	25SEP2009 21:04:07
Stop time of products	25SEP2009 23:18:37
Store outputs in DB	Yes
Nb of level 1b prods	5
Nb of prods with errors	0

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

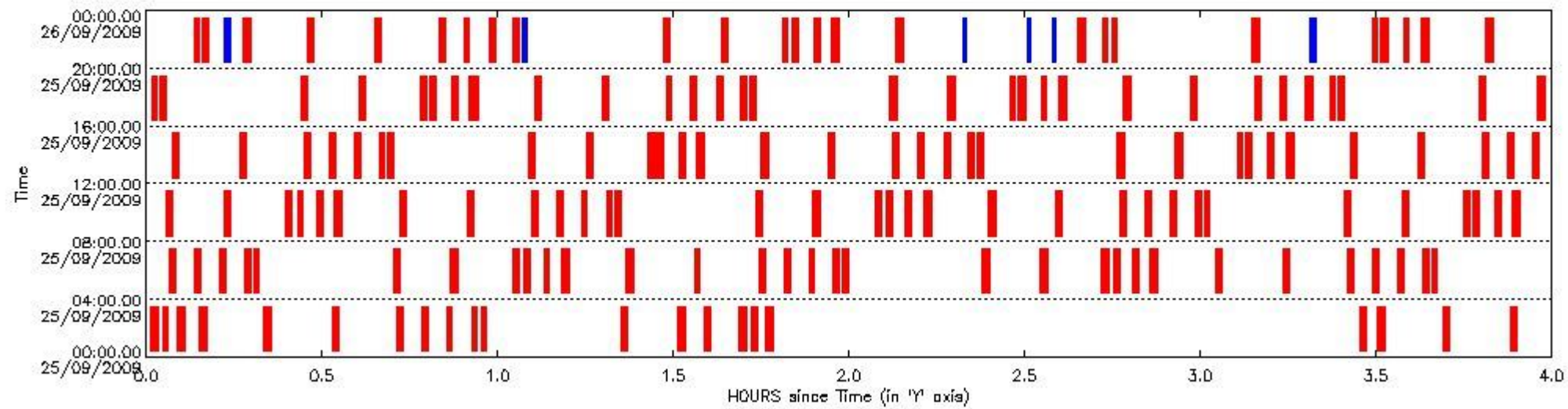
2.1 Level 0 products arrived in PCF (see template [here](#))

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
25-SEP-2009 00:00:36	9AlpCMa	1	39577
25-SEP-2009 00:02:42	PiPup	117	39577
25-SEP-2009 00:05:09	1ZetCMa	177	39577
25-SEP-2009 00:08:57	AlpCol	108	39578
25-SEP-2009 00:20:05	The1Eri	157	39578
25-SEP-2009 00:31:43	16BetCet	52	39578
25-SEP-2009 00:42:46	88GamPeg	140	39578
25-SEP-2009 00:47:03	21AlpAnd	58	39578
25-SEP-2009 00:51:26	43BetAnd	53	39578
25-SEP-2009 00:55:34	11BetCas	74	39578
25-SEP-2009 00:57:06	27GamCas	76	39578
25-SEP-2009 01:20:58	66AlpGem	24	39578
25-SEP-2009 01:30:45	10AlpCMi	8	39578
25-SEP-2009 01:35:15	DSA1058	0	39578
25-SEP-2009 01:41:13	9AlpCMa	1	39578

25-SEP-2009 01:43:19	PiPup	117	39578
25-SEP-2009 01:45:46	1ZetCMa	177	39578
25-SEP-2009 03:27:12	DSA1059	0	39580
25-SEP-2009 03:30:11	AlpCol	108	39580
25-SEP-2009 03:41:19	The1Eri	157	39580
25-SEP-2009 03:52:55	16BetCet	52	39580
25-SEP-2009 04:03:58	88GamPeg	140	39580
25-SEP-2009 04:08:14	21AlpAnd	58	39580
25-SEP-2009 04:12:36	43BetAnd	53	39580
25-SEP-2009 04:16:45	11BetCas	74	39580
25-SEP-2009 04:18:17	27GamCas	76	39580
25-SEP-2009 04:42:10	66AlpGem	24	39580
25-SEP-2009 04:51:58	10AlpCMi	8	39580
25-SEP-2009 05:02:28	9AlpCMa	1	39580
25-SEP-2009 05:04:32	PiPup	117	39580
25-SEP-2009 05:07:49	DSA1059	0	39581
25-SEP-2009 05:10:49	AlpCol	108	39581
25-SEP-2009 05:21:56	The1Eri	157	39581
25-SEP-2009 05:33:32	16BetCet	52	39581
25-SEP-2009 05:44:33	88GamPeg	140	39581
25-SEP-2009 05:48:49	21AlpAnd	58	39581
25-SEP-2009 05:53:11	43BetAnd	53	39581
25-SEP-2009 05:57:21	11BetCas	74	39581
25-SEP-2009 05:58:52	27GamCas	76	39581
25-SEP-2009 06:22:46	66AlpGem	24	39581
25-SEP-2009 06:32:35	10AlpCMi	8	39581
25-SEP-2009 06:43:05	9AlpCMa	1	39581
25-SEP-2009 06:45:09	PiPup	117	39581
25-SEP-2009 06:48:26	DSA1059	0	39582
25-SEP-2009 06:51:26	AlpCol	108	39582
25-SEP-2009 07:02:32	The1Eri	157	39582
25-SEP-2009 07:14:08	16BetCet	52	39582
25-SEP-2009 07:25:09	88GamPeg	140	39582
25-SEP-2009 07:29:25	21AlpAnd	58	39582
25-SEP-2009 07:33:47	43BetAnd	53	39582
25-SEP-2009 07:37:56	11BetCas	74	39582
25-SEP-2009 07:39:28	27GamCas	76	39582
25-SEP-2009 08:03:22	66AlpGem	24	39582
25-SEP-2009 08:13:12	10AlpCMi	8	39582
25-SEP-2009 08:23:43	9AlpCMa	1	39582
25-SEP-2009 08:25:46	PiPup	117	39582
25-SEP-2009 08:29:03	DSA1059	0	39583
25-SEP-2009 08:32:03	AlpCol	108	39583
25-SEP-2009 08:43:09	The1Eri	157	39583
25-SEP-2009 08:54:44	16BetCet	52	39583
25-SEP-2009 09:05:44	88GamPeg	140	39583
25-SEP-2009 09:10:00	21AlpAnd	58	39583
25-SEP-2009 09:14:22	43BetAnd	53	39583
25-SEP-2009 09:18:32	11BetCas	74	39583
25-SEP-2009 09:20:03	27GamCas	76	39583
25-SEP-2009 09:43:58	66AlpGem	24	39583
25-SEP-2009 09:53:48	10AlpCMi	8	39583
25-SEP-2009 10:04:20	9AlpCMa	1	39583
25-SEP-2009 10:06:23	PiPup	117	39583
25-SEP-2009 10:09:40	DSA1059	0	39584
25-SEP-2009 10:12:41	AlpCol	108	39584
25-SEP-2009 10:23:46	The1Eri	157	39584
25-SEP-2009 10:35:20	16BetCet	52	39584
25-SEP-2009 10:46:20	88GamPeg	140	39584

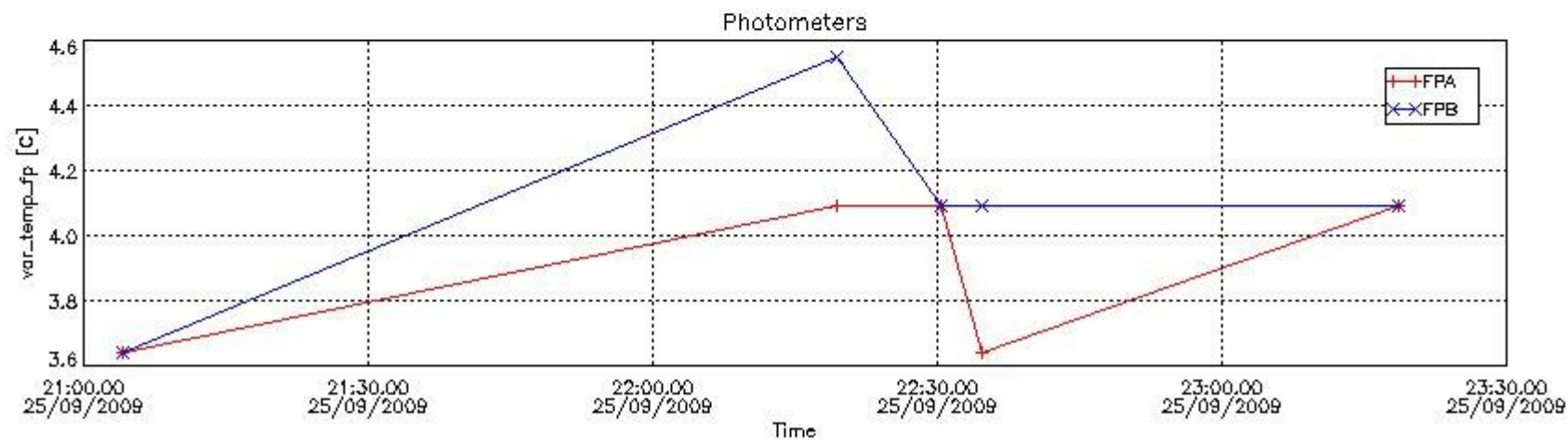
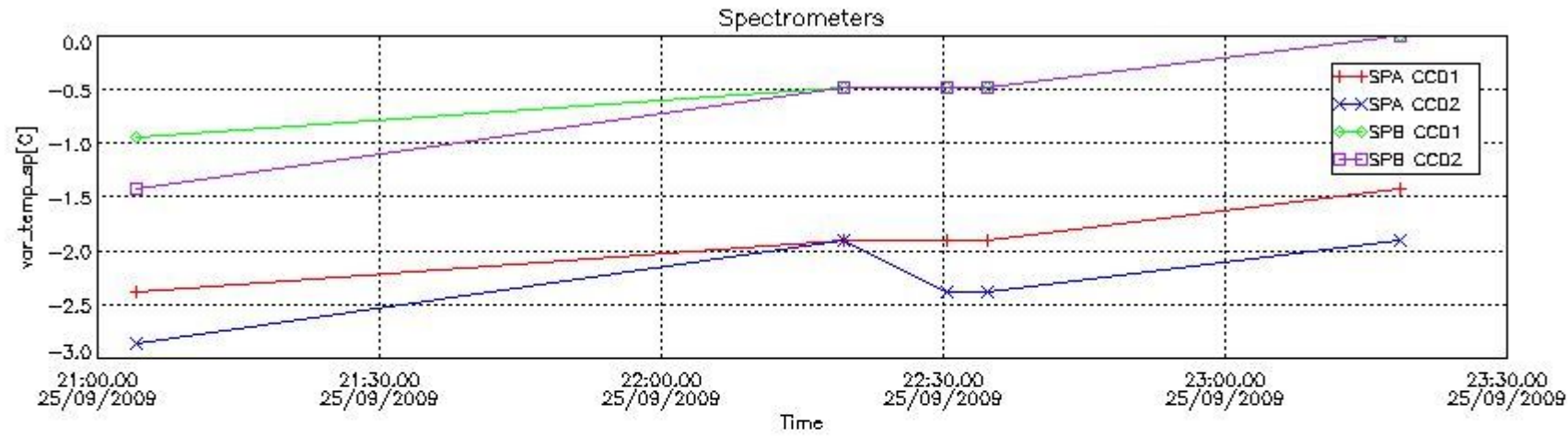
25-SEP-2009 10:50:36	21AlpAnd	58	39584
25-SEP-2009 10:54:57	43BetAnd	53	39584
25-SEP-2009 10:59:08	11BetCas	74	39584
25-SEP-2009 11:00:39	27GamCas	76	39584
25-SEP-2009 11:24:34	66AlpGem	24	39584
25-SEP-2009 11:34:25	10AlpCMi	8	39584
25-SEP-2009 11:44:58	9AlpCMa	1	39584
25-SEP-2009 11:46:27	21EpsCMa	23	39584
25-SEP-2009 11:50:17	DSA1059	0	39585
25-SEP-2009 11:53:18	AlpCol	108	39585
25-SEP-2009 12:04:23	The1Eri	157	39585
25-SEP-2009 12:15:56	16BetCet	52	39585
25-SEP-2009 12:26:56	88GamPeg	140	39585
25-SEP-2009 12:31:11	21AlpAnd	58	39585
25-SEP-2009 12:35:32	43BetAnd	53	39585
25-SEP-2009 12:39:43	11BetCas	74	39585
25-SEP-2009 12:41:14	27GamCas	76	39585
25-SEP-2009 13:05:10	66AlpGem	24	39585
25-SEP-2009 13:15:02	10AlpCMi	8	39585
25-SEP-2009 13:25:35	9AlpCMa	1	39585
25-SEP-2009 13:27:04	21EpsCMa	23	39585
25-SEP-2009 13:30:54	DSA1059	0	39586
25-SEP-2009 13:33:56	AlpCol	108	39586
25-SEP-2009 13:44:59	The1Eri	157	39586
25-SEP-2009 13:56:32	16BetCet	52	39586
25-SEP-2009 14:07:31	88GamPeg	140	39586
25-SEP-2009 14:11:47	21AlpAnd	58	39586
25-SEP-2009 14:16:07	43BetAnd	53	39586
25-SEP-2009 14:20:19	11BetCas	74	39586
25-SEP-2009 14:21:50	27GamCas	76	39586
25-SEP-2009 14:45:46	66AlpGem	24	39586
25-SEP-2009 14:55:38	10AlpCMi	8	39586
25-SEP-2009 15:06:13	9AlpCMa	1	39586
25-SEP-2009 15:07:41	21EpsCMa	23	39586
25-SEP-2009 15:11:31	DSA1059	0	39587
25-SEP-2009 15:14:33	AlpCol	108	39587
25-SEP-2009 15:25:36	The1Eri	157	39587
25-SEP-2009 15:37:08	16BetCet	52	39587
25-SEP-2009 15:48:07	88GamPeg	140	39587
25-SEP-2009 15:52:22	21AlpAnd	58	39587
25-SEP-2009 15:56:42	43BetAnd	53	39587
25-SEP-2009 16:00:54	11BetCas	74	39587
25-SEP-2009 16:02:25	27GamCas	76	39587
25-SEP-2009 16:26:22	66AlpGem	24	39587
25-SEP-2009 16:36:15	10AlpCMi	8	39587
25-SEP-2009 16:46:50	9AlpCMa	1	39587
25-SEP-2009 16:48:18	21EpsCMa	23	39587
25-SEP-2009 16:52:08	DSA1059	0	39588
25-SEP-2009 16:55:10	AlpCol	108	39588
25-SEP-2009 17:06:13	The1Eri	157	39588
25-SEP-2009 17:17:44	16BetCet	52	39588
25-SEP-2009 17:28:42	88GamPeg	140	39588
25-SEP-2009 17:32:58	21AlpAnd	58	39588
25-SEP-2009 17:37:17	43BetAnd	53	39588
25-SEP-2009 17:41:30	11BetCas	74	39588
25-SEP-2009 17:43:01	27GamCas	76	39588
25-SEP-2009 18:06:58	66AlpGem	24	39588
25-SEP-2009 18:16:52	10AlpCMi	8	39588
25-SEP-2009 18:27:27	9AlpCMa	1	39588

25-SEP-2009 18:28:56	21EpsCMA	23	39588
25-SEP-2009 18:32:45	DSA1059	0	39589
25-SEP-2009 18:35:48	AlpCol	108	39589
25-SEP-2009 18:46:50	The1Eri	157	39589
25-SEP-2009 18:58:20	16BetCet	52	39589
25-SEP-2009 19:09:18	88GamPeg	140	39589
25-SEP-2009 19:13:33	21AlpAnd	58	39589
25-SEP-2009 19:17:52	43BetAnd	53	39589
25-SEP-2009 19:22:06	11BetCas	74	39589
25-SEP-2009 19:23:36	27GamCas	76	39589
25-SEP-2009 19:47:34	66AlpGem	24	39589
25-SEP-2009 19:57:29	10AlpCMi	8	39589
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25-SEP-2009 20:09:33	21EpsCMA	23	39589
25-SEP-2009 20:16:25	AlpCol	108	39590
25-SEP-2009 20:27:26	The1Eri	157	39590
25-SEP-2009 20:38:56	16BetCet	52	39590
25-SEP-2009 20:49:54	88GamPeg	140	39590
25-SEP-2009 20:54:09	21AlpAnd	58	39590
25-SEP-2009 20:58:27	43BetAnd	53	39590
25-SEP-2009 21:02:41	11BetCas	74	39590
25-SEP-2009 21:28:10	66AlpGem	24	39590
25-SEP-2009 21:38:05	10AlpCMi	8	39590
25-SEP-2009 21:48:42	9AlpCMA	1	39590
25-SEP-2009 21:50:10	21EpsCMA	23	39590
25-SEP-2009 21:53:59	DSA1059	0	39591
25-SEP-2009 21:57:02	AlpCol	108	39591
25-SEP-2009 22:08:03	The1Eri	157	39591
25-SEP-2009 22:39:02	43BetAnd	53	39591
25-SEP-2009 22:43:17	11BetCas	74	39591
25-SEP-2009 22:44:47	27GamCas	76	39591
25-SEP-2009 23:08:46	66AlpGem	24	39591
25-SEP-2009 23:29:20	9AlpCMA	1	39591
25-SEP-2009 23:30:47	21EpsCMA	23	39591
25-SEP-2009 23:34:36	DSA1059	0	39592
25-SEP-2009 23:37:40	AlpCol	108	39592
25-SEP-2009 23:48:40	The1Eri	157	39592

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_1PNPDE20090925_210407_000000542082_00458_39590_9859.N1	25-SEP-2009 21:04:07	Bright	53.500	76	27Gam Cas	2.3000	30000.	107	39590	No
2	GOM_TRA_1PNPDE20090925_221928_000000342082_00459_39591_0007.N1	25-SEP-2009 22:19:28	Twilight_stray	33.500	52	16Bet Cet	2.0370	4500.0	67	39591	No
3	GOM_TRA_1PNPDE20090925_223024_000000342082_00459_39591_0008.N1	25-SEP-2009 22:30:24	Bright	34.000	140	88Gam Peg	2.8340	26000.	68	39591	No
4	GOM_TRA_1PNPDE20090925_223440_000000342082_00459_39591_0009.N1	25-SEP-2009 22:34:40	Bright	34.000	58	21Alp And	2.0730	11000.	68	39591	No
5	GOM_TRA_1PNPDE20090925_231837_000000672082_00459_39591_0010.N1	25-SEP-2009 23:18:37	Dark	66.500	8	10Alp CMi	0.40000	6500.0	133	39591	No

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



4. Overview of dark signal processing per product

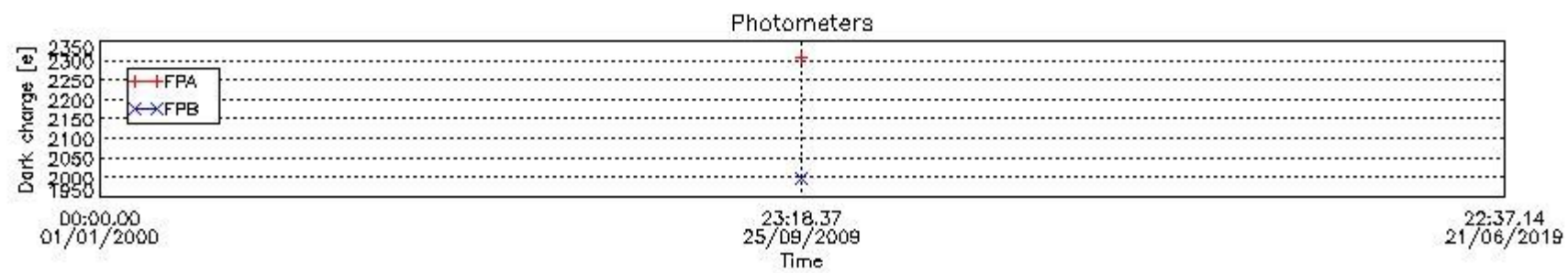
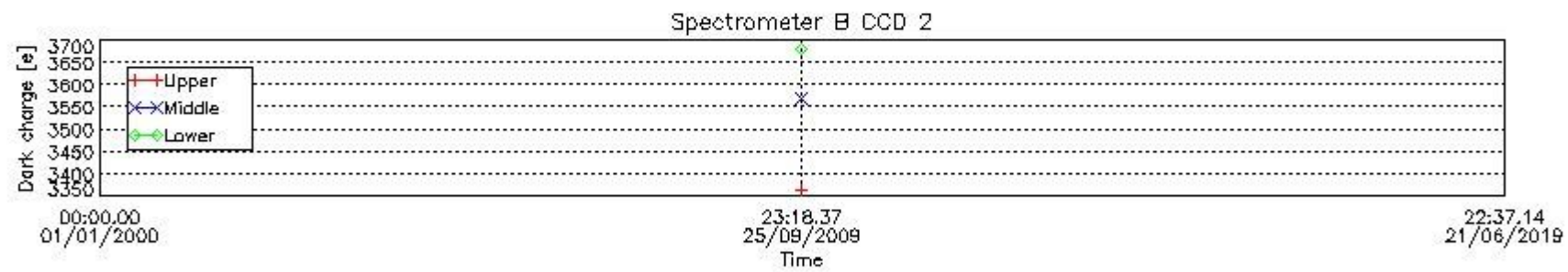
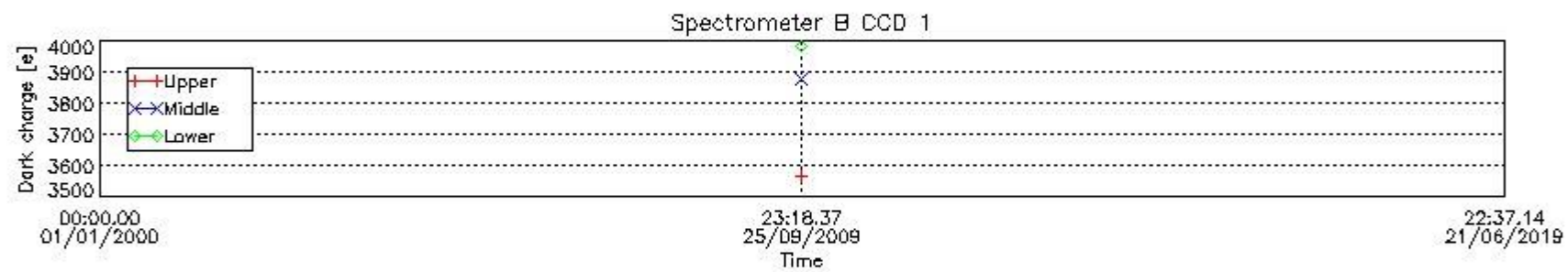
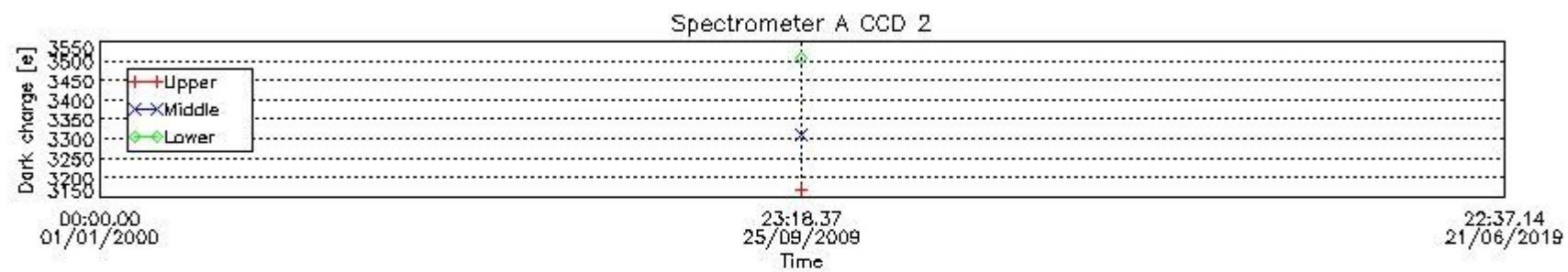
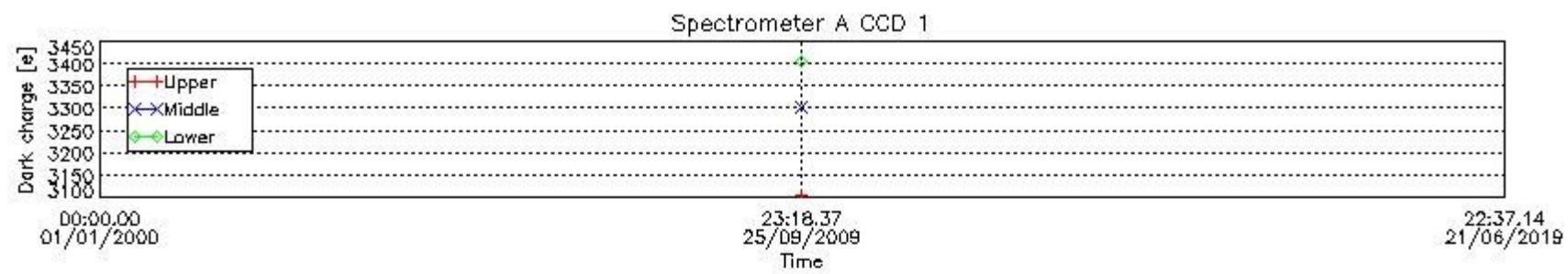
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090925_210407_000000542082_00458_39590_9859.N1	DC map used
GOM_TRA_1PNPDE20090925_221928_000000342082_00459_39591_0007.N1	DC map used
GOM_TRA_1PNPDE20090925_223024_000000342082_00459_39591_0008.N1	DC map used
GOM_TRA_1PNPDE20090925_223440_000000342082_00459_39591_0009.N1	DC map used
GOM_TRA_1PNPDE20090925_231837_000000672082_00459_39591_0010.N1	DC map used

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



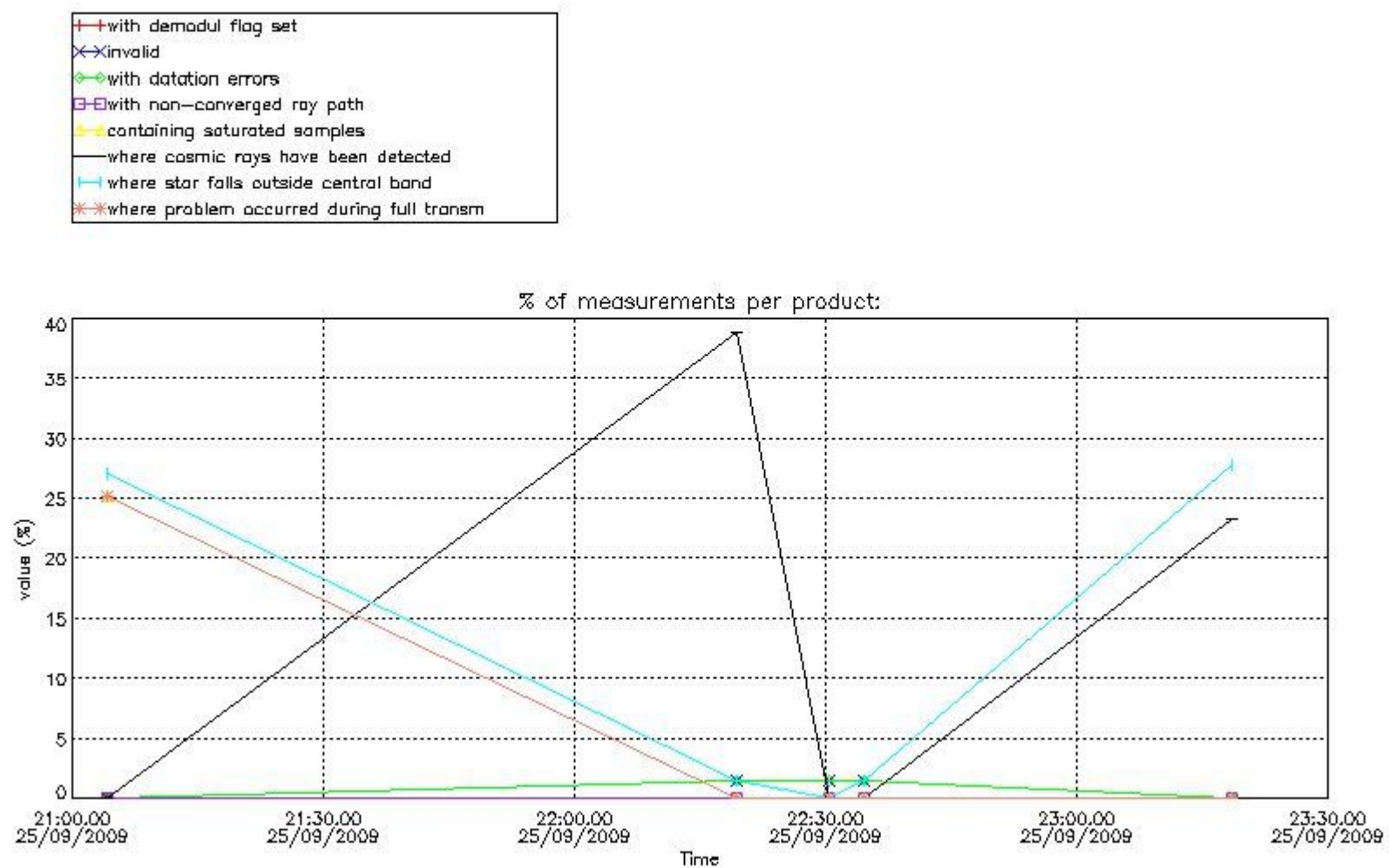
5. Demodulation flag and quality information monitoring

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.

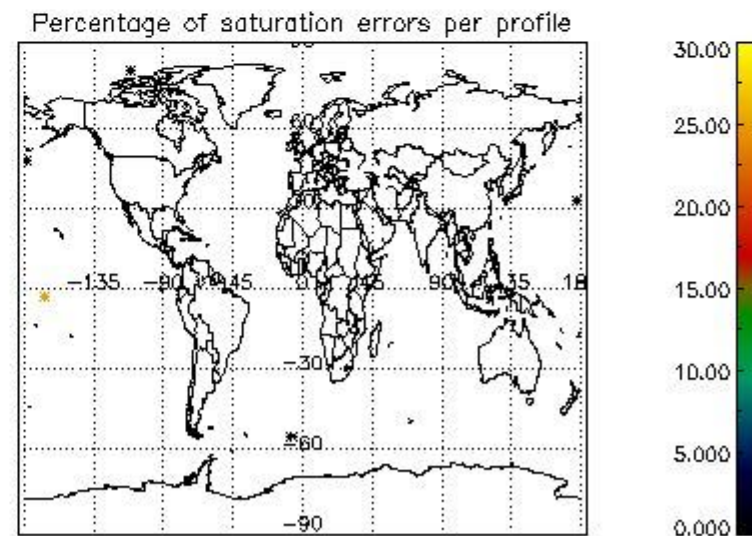
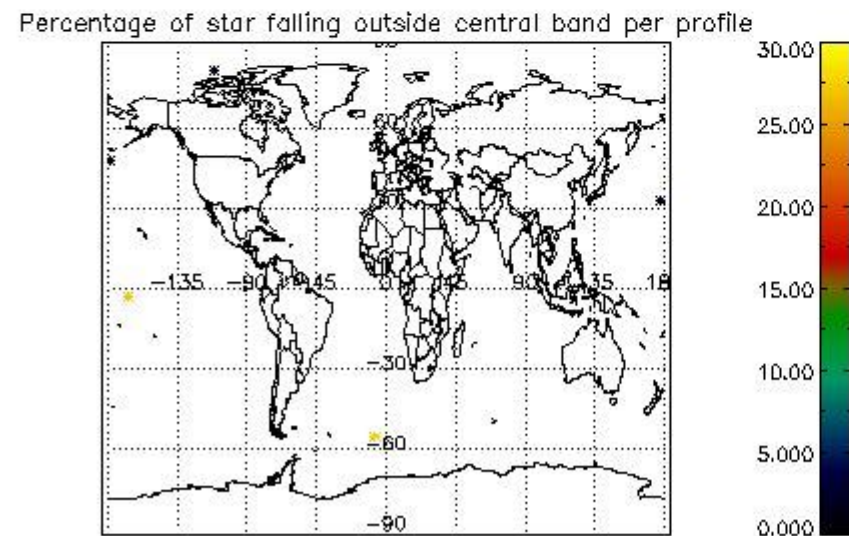
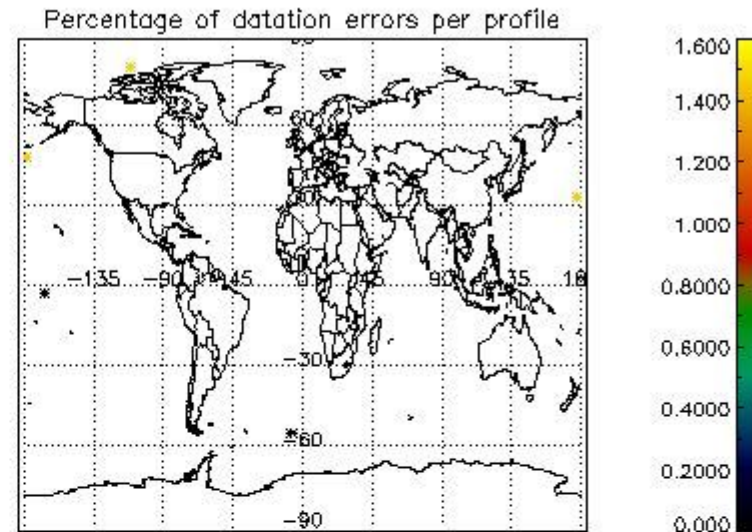
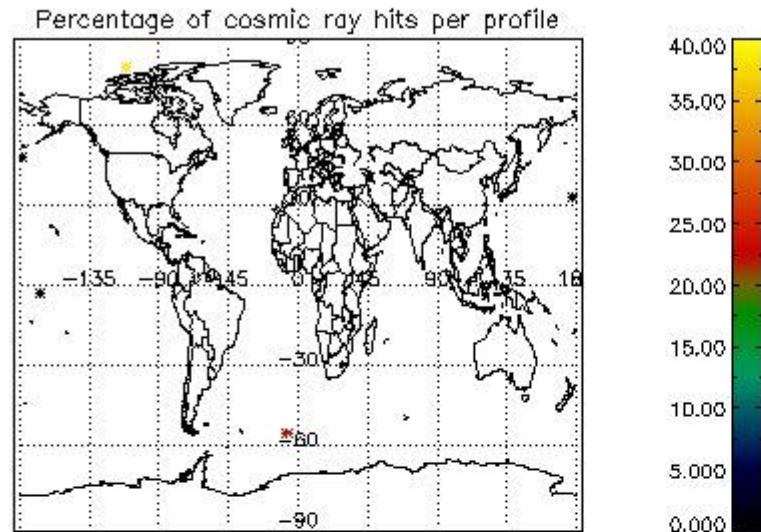
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.0000 %
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)



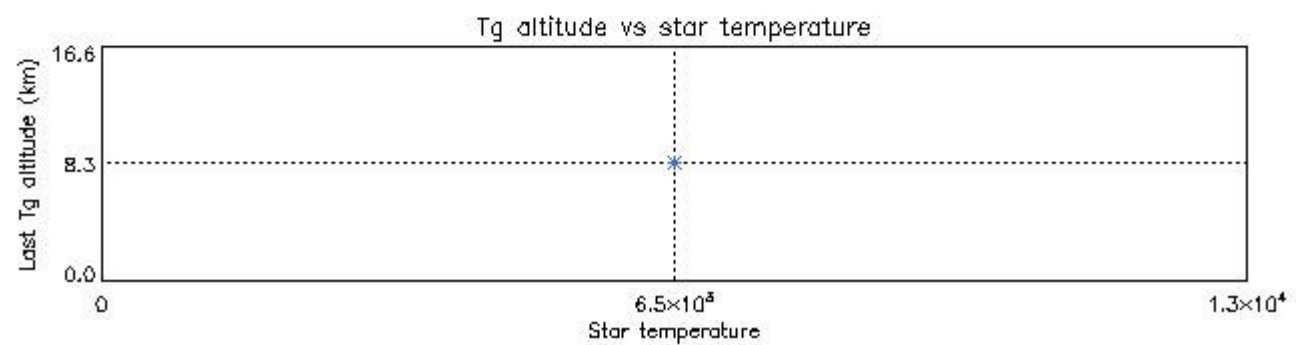
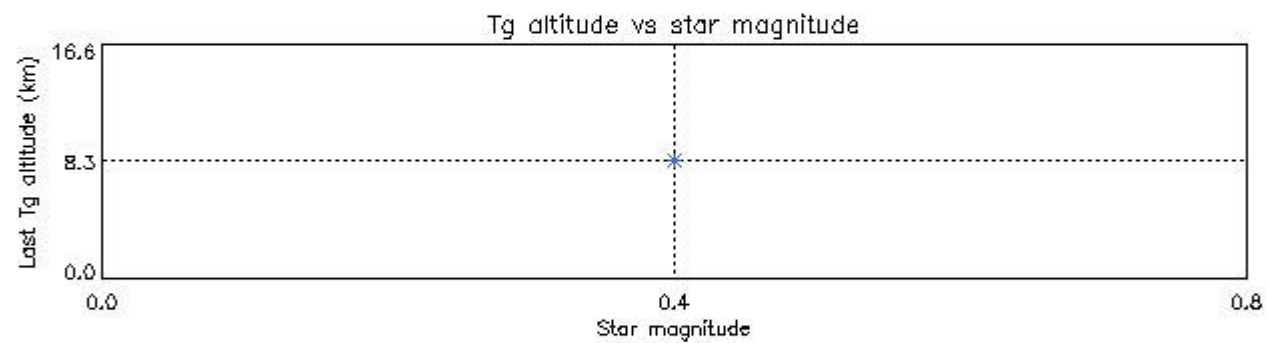
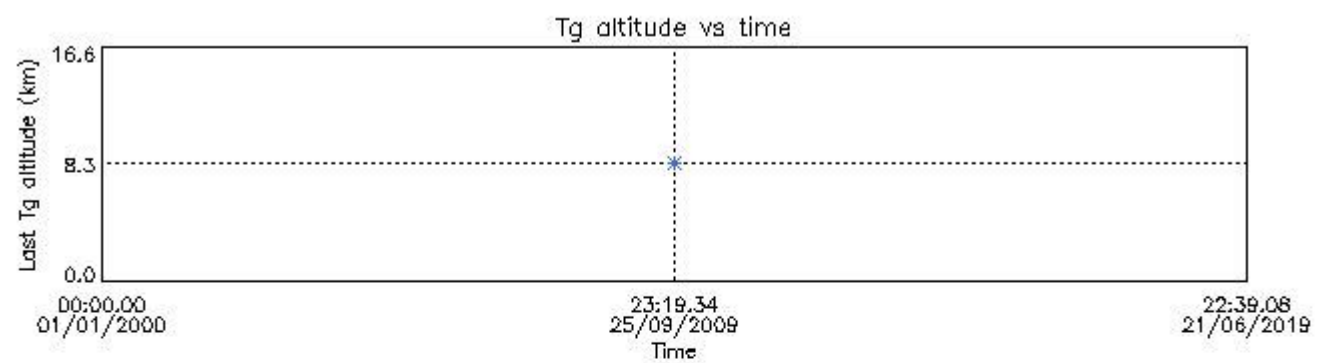
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	8.2911	29.390	NaN
St. deviation:	0.0000	19.019	NaN
Maximum:	8.2911	41.169	NaN
Minimum:	8.2911	7.4486	NaN
Number of data:	1.0000	3.0000	NaN

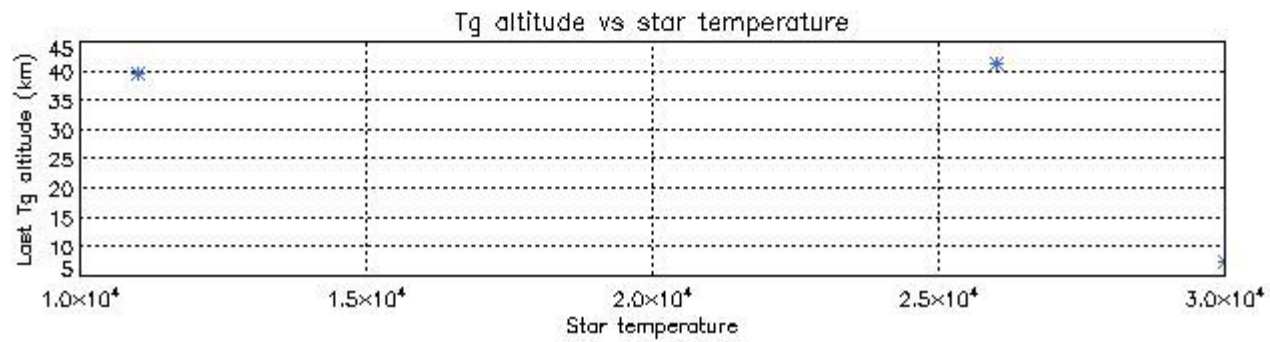
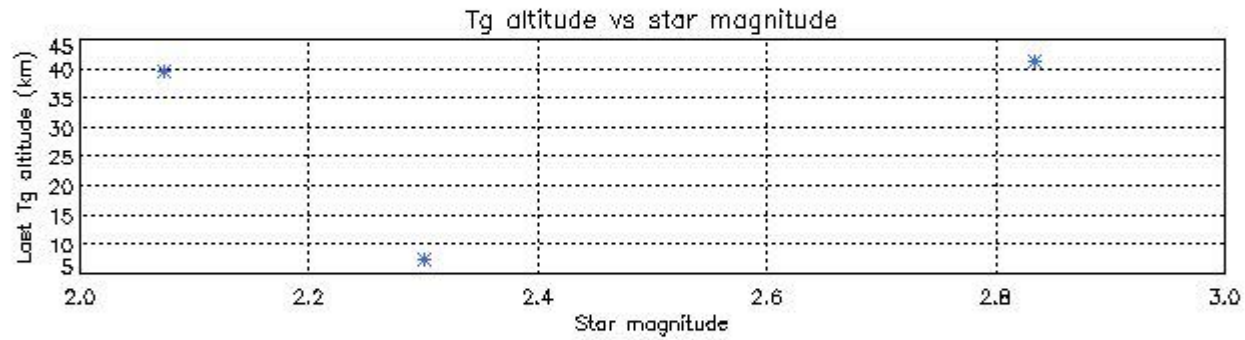
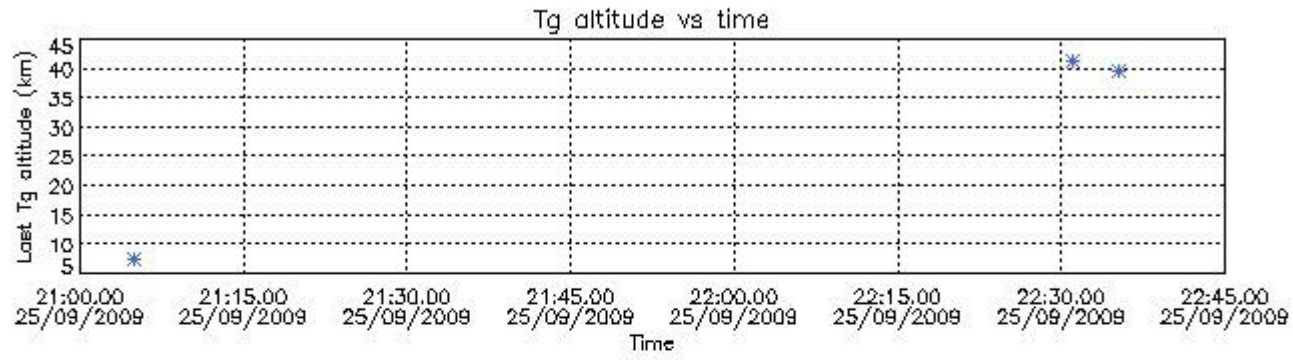
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

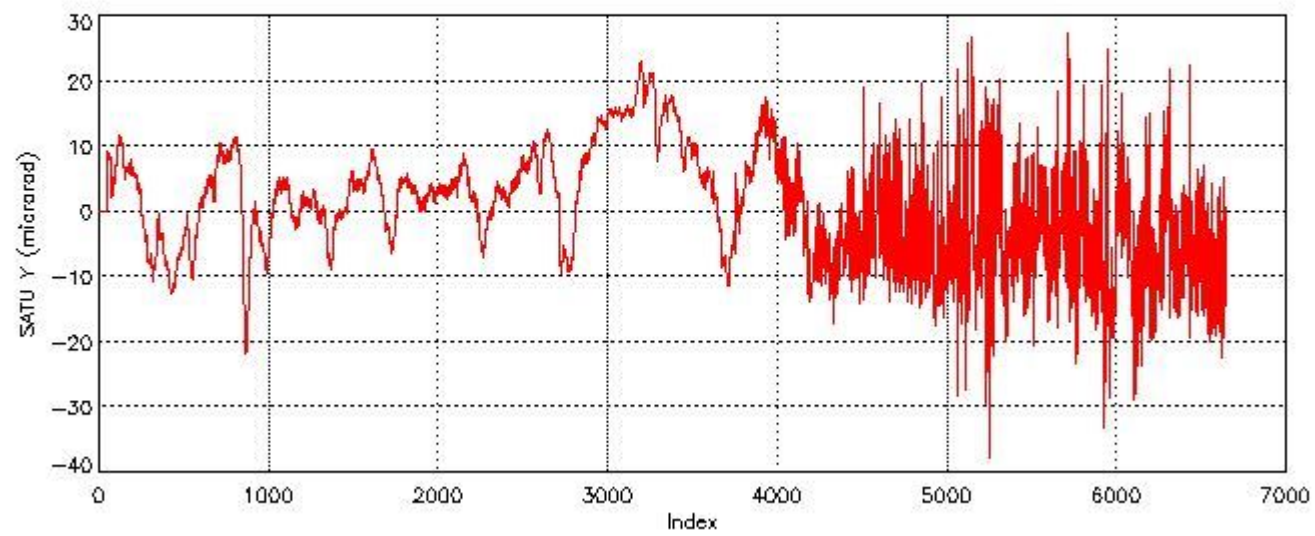
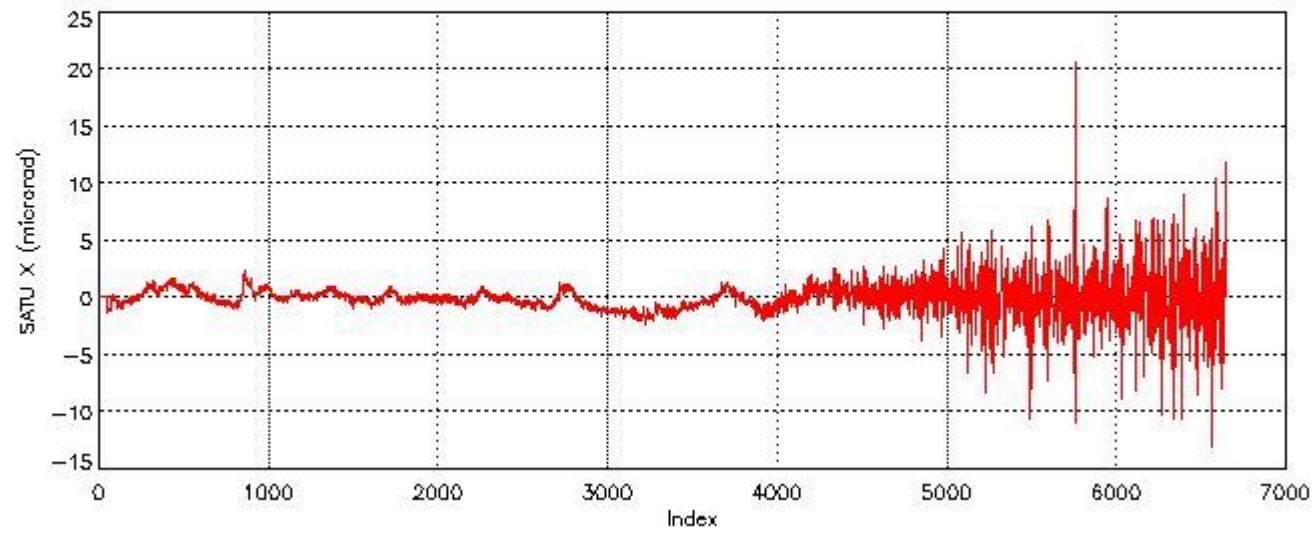


7. Star Acquisition and Tracking Unit (SATU)

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:	0.26050	-0.13000	0.19851	1.4835
St. deviation:	0.64013	6.8573	1.2179	5.6775
Maximum:	2.3000	11.500	6.1000	32.400
Minimum:	-1.4000	-22.000	-6.1000	-13.600

Number of data:	1200.0	1200.0	3050.0	3050.0
-----------------	--------	--------	--------	--------

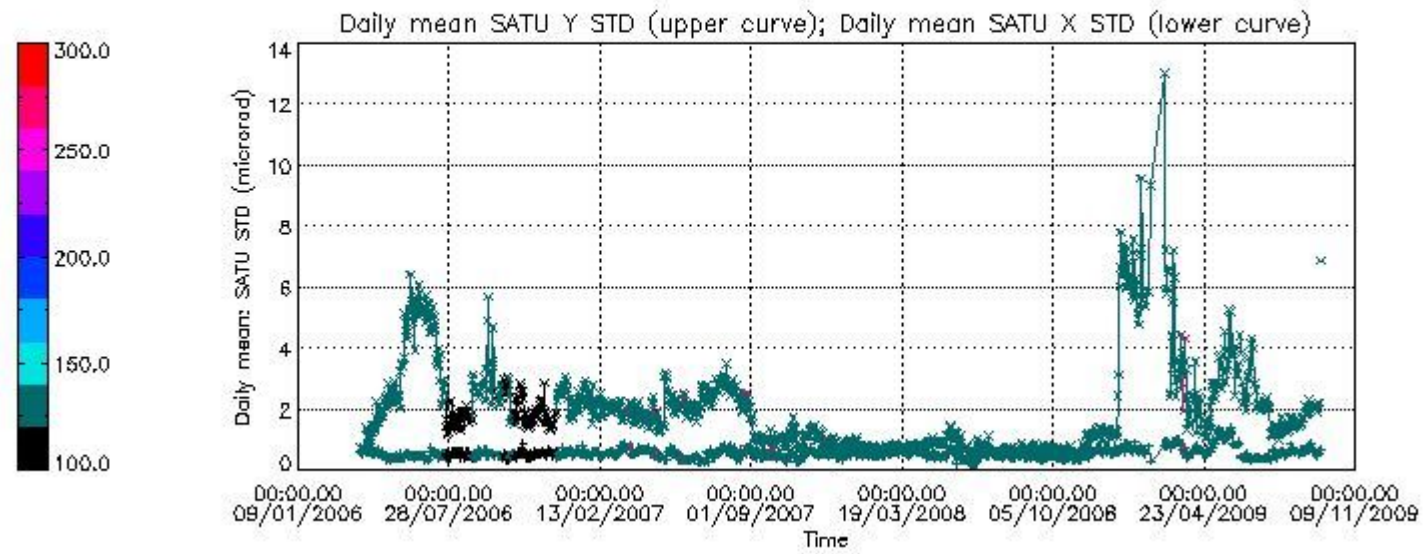
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

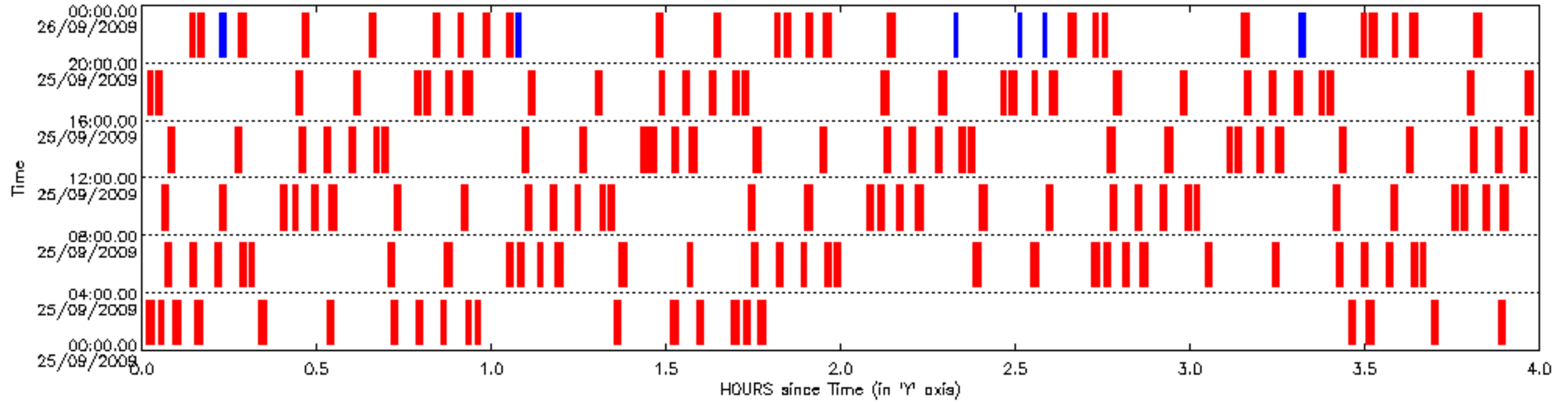
Lower curve: STD of SATU X axis

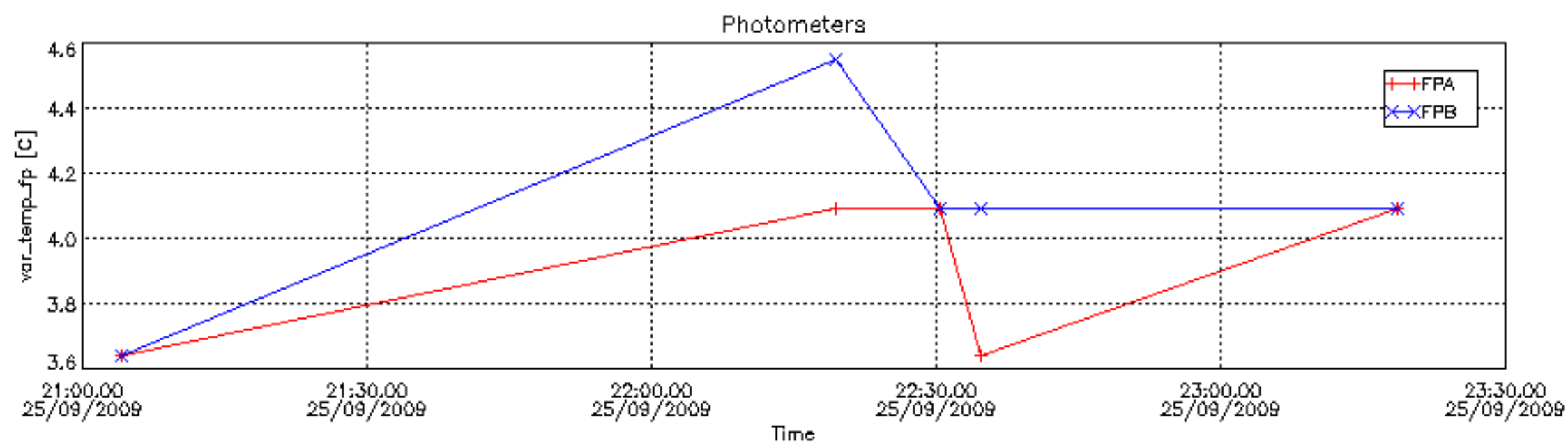
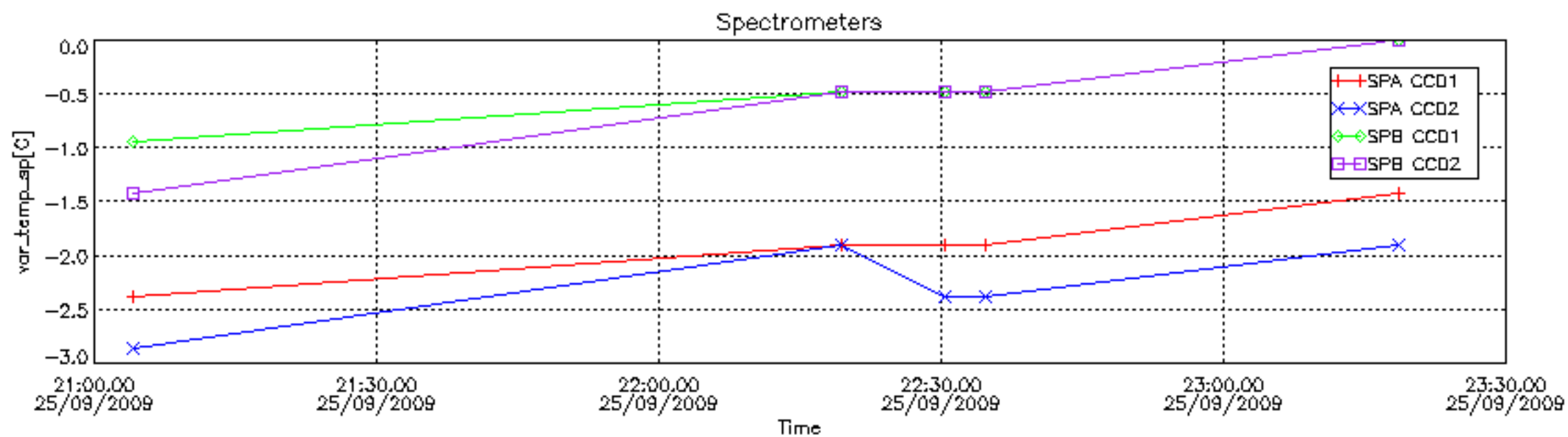


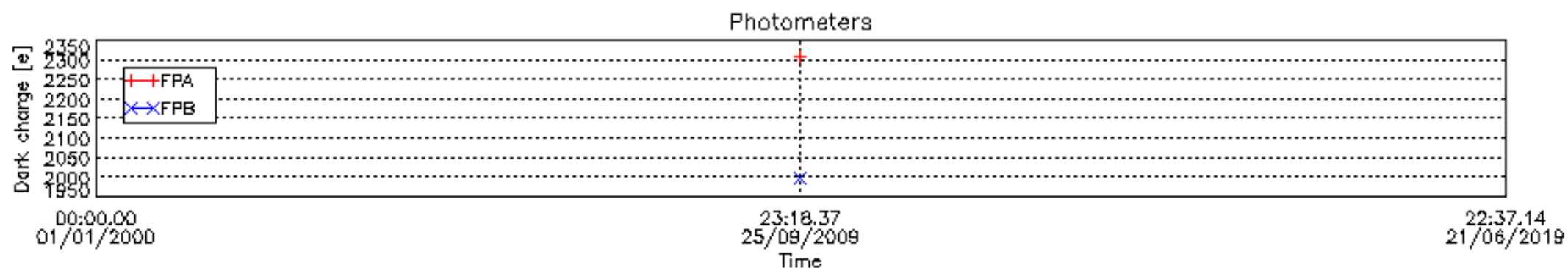
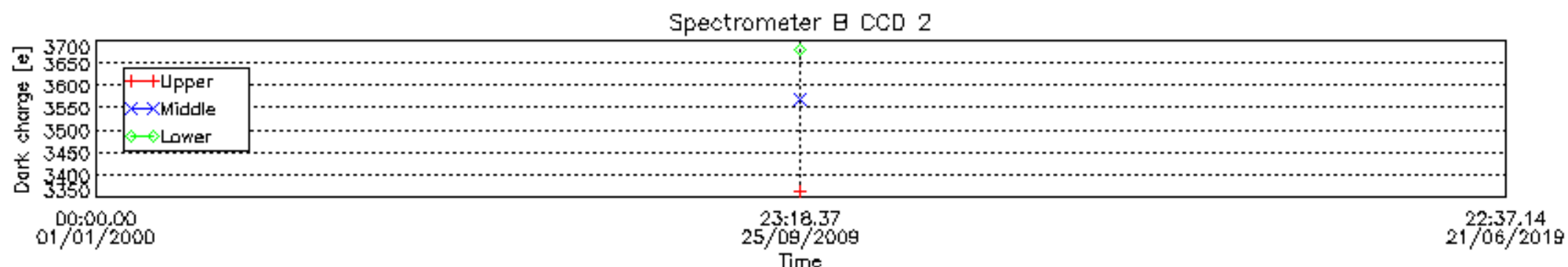
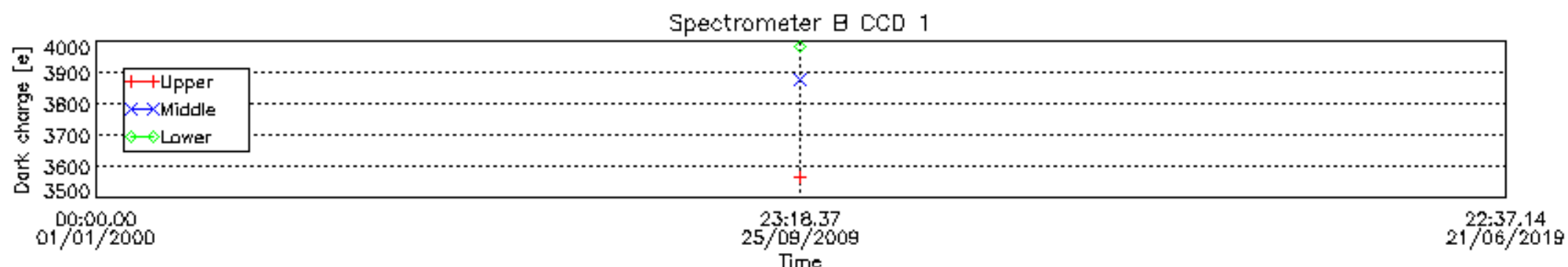
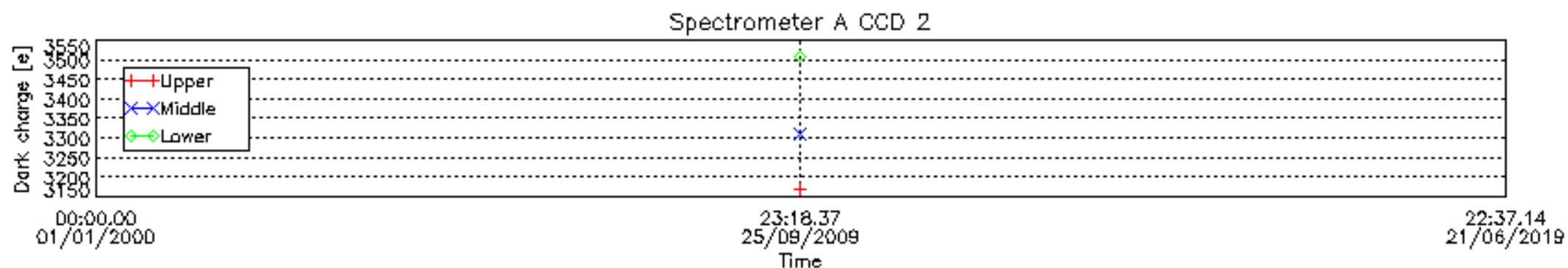
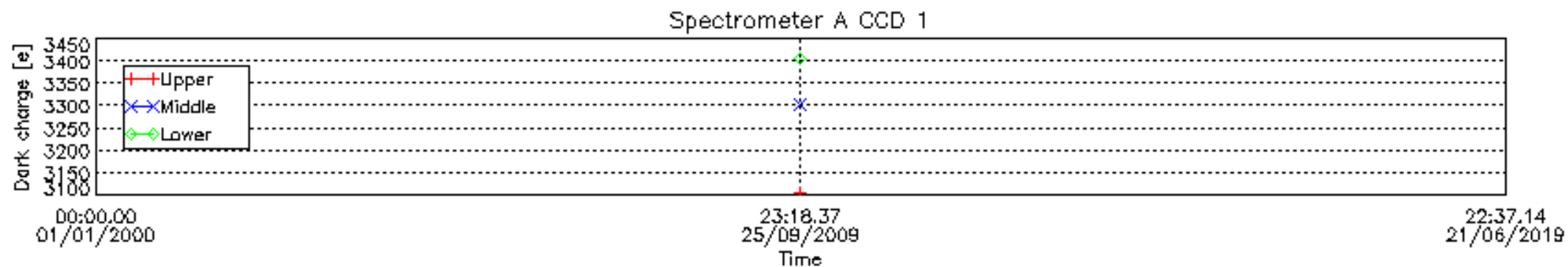
8. Auxiliary Data Files used for the production reported in section 2.4

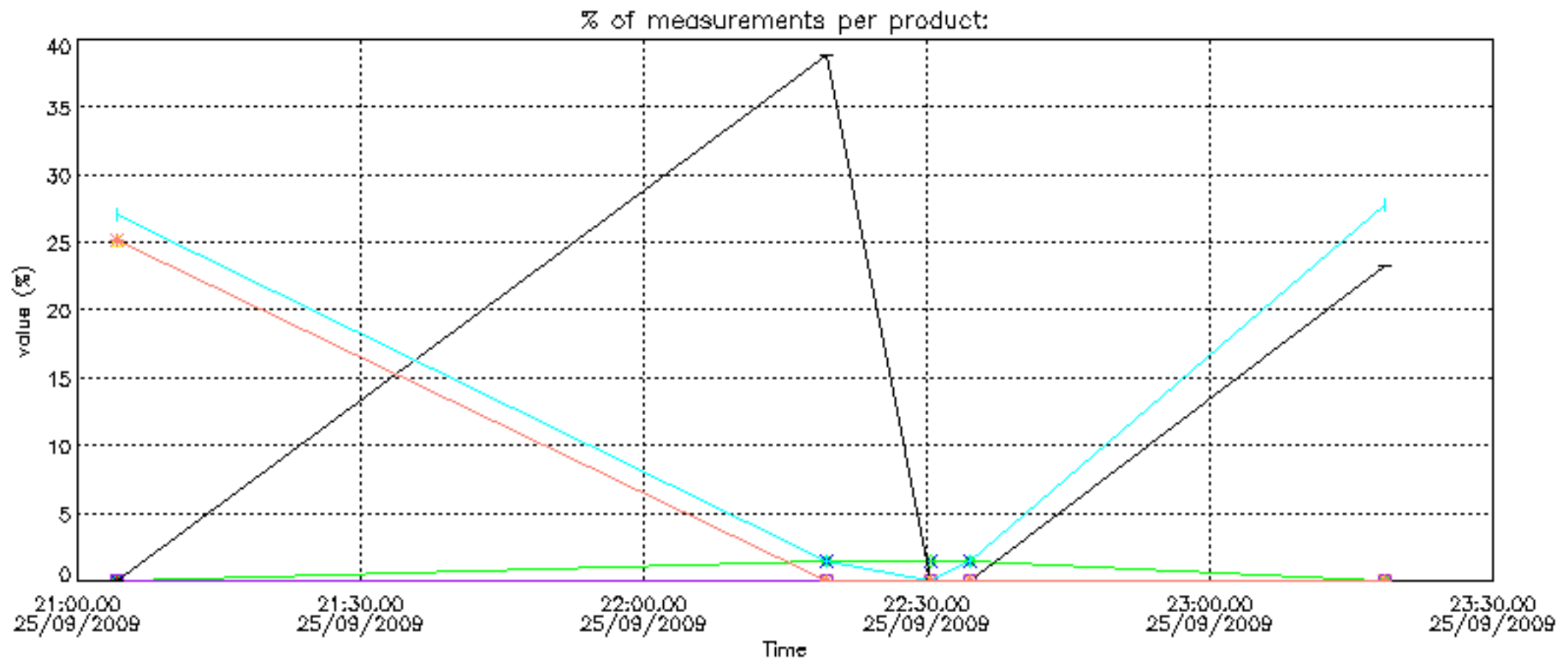
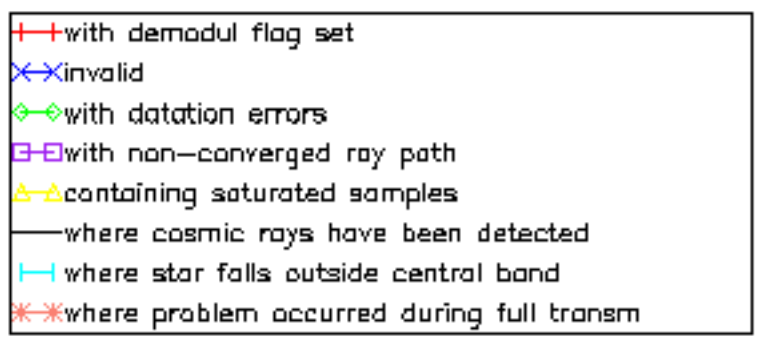
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	25-SEP-2009 21:04:07
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090922_092505_20090920_000000_20100101_000000	1	25-SEP-2009 21:04:07
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	25-SEP-2009 21:04:07
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-SEP-2009 21:04:07
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	25-SEP-2009 21:04:07
ECMWF_FILE	AUX_ECF_AXNECM20090925_064113_20090925_210000_20090926_090000	1	25-SEP-2009 21:04:07
OPTIONAL_ECMWF_FILE	MISSING	1	25-SEP-2009 21:04:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090925_202622_000041442082_00458_39590_8833.N1	1	25-SEP-2009 21:04:07

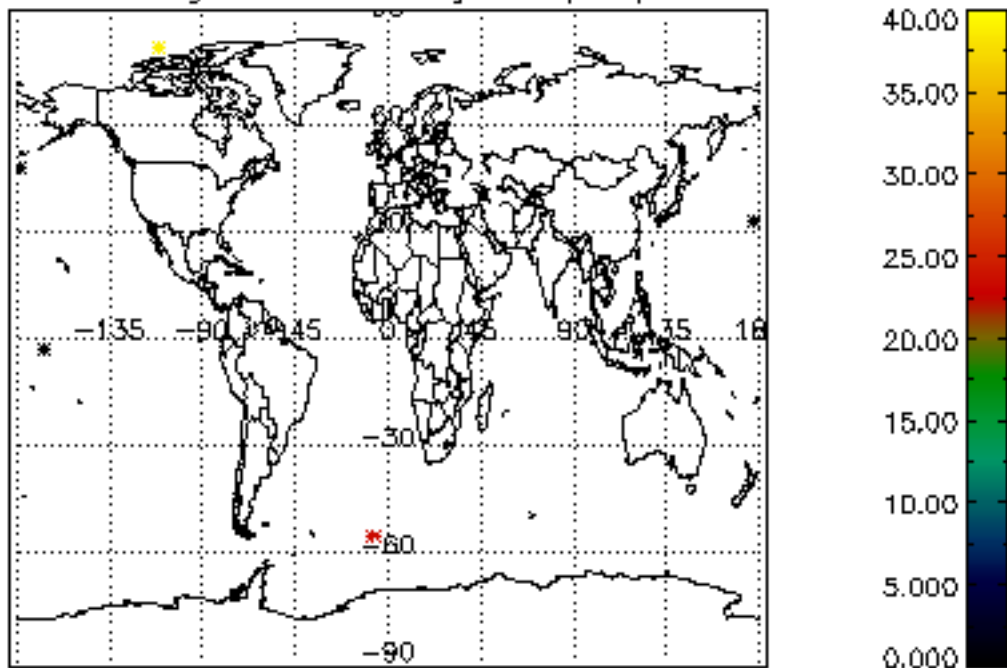




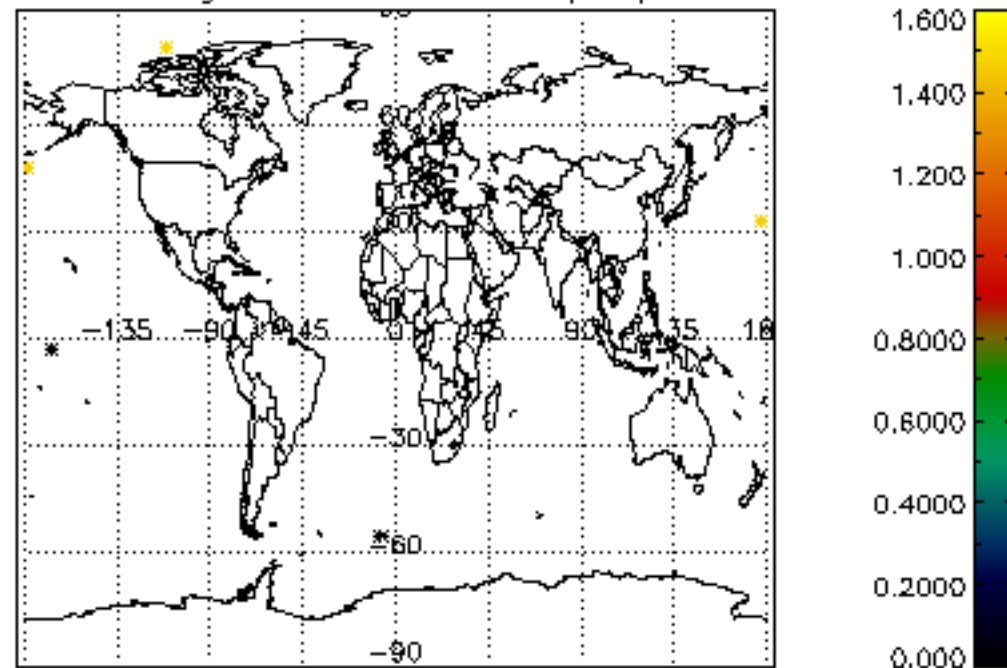




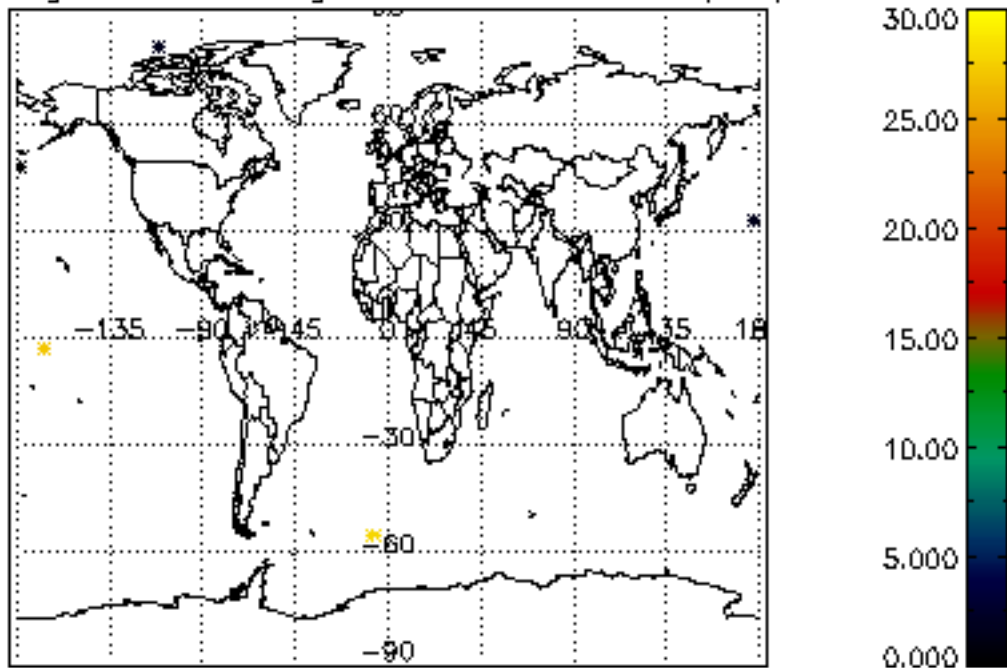
Percentage of cosmic ray hits per profile



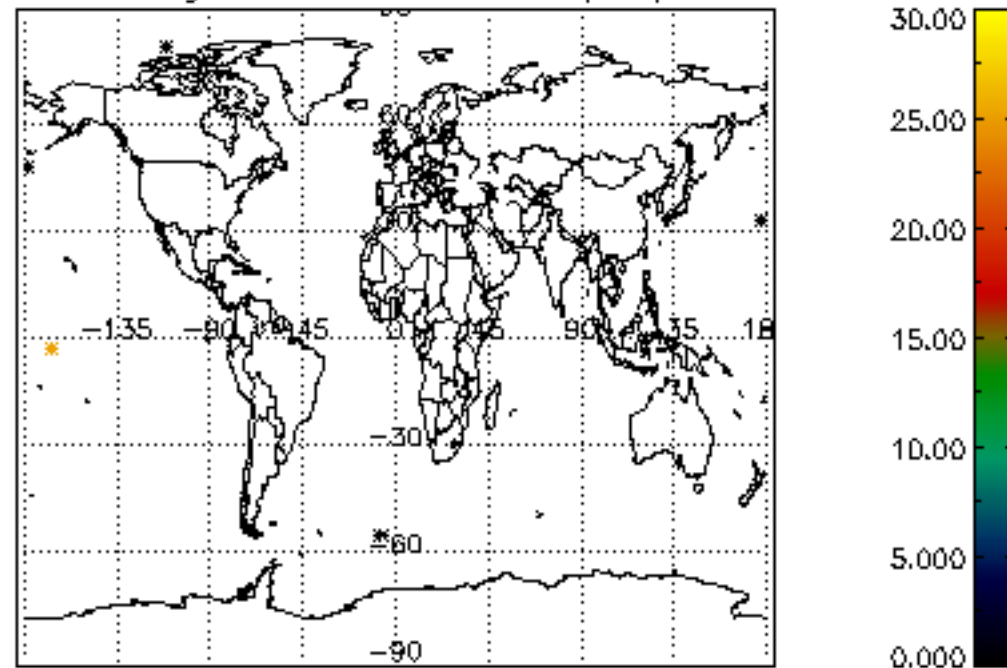
Percentage of datation errors per profile



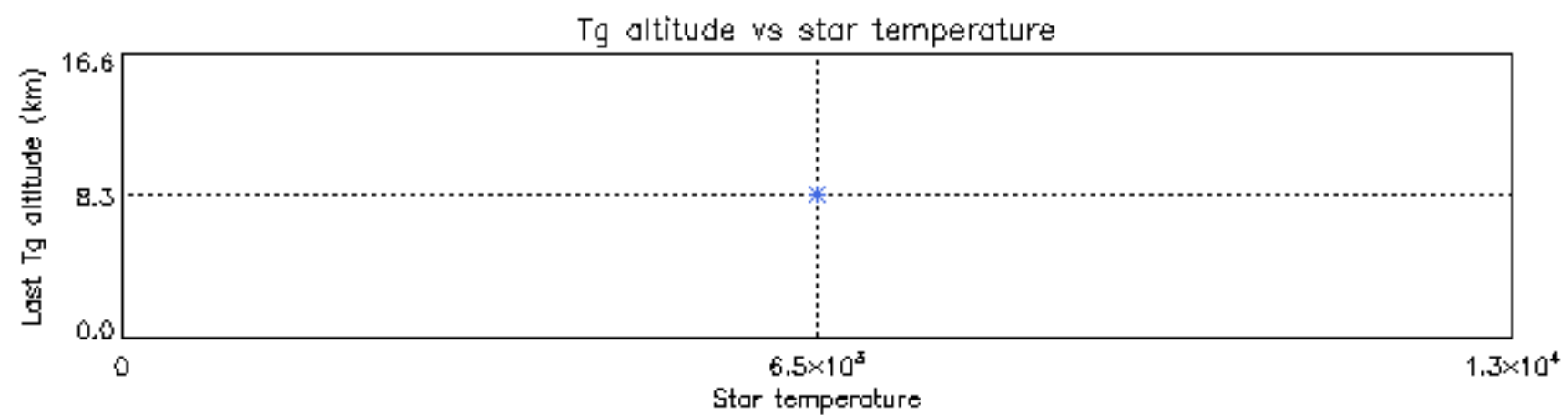
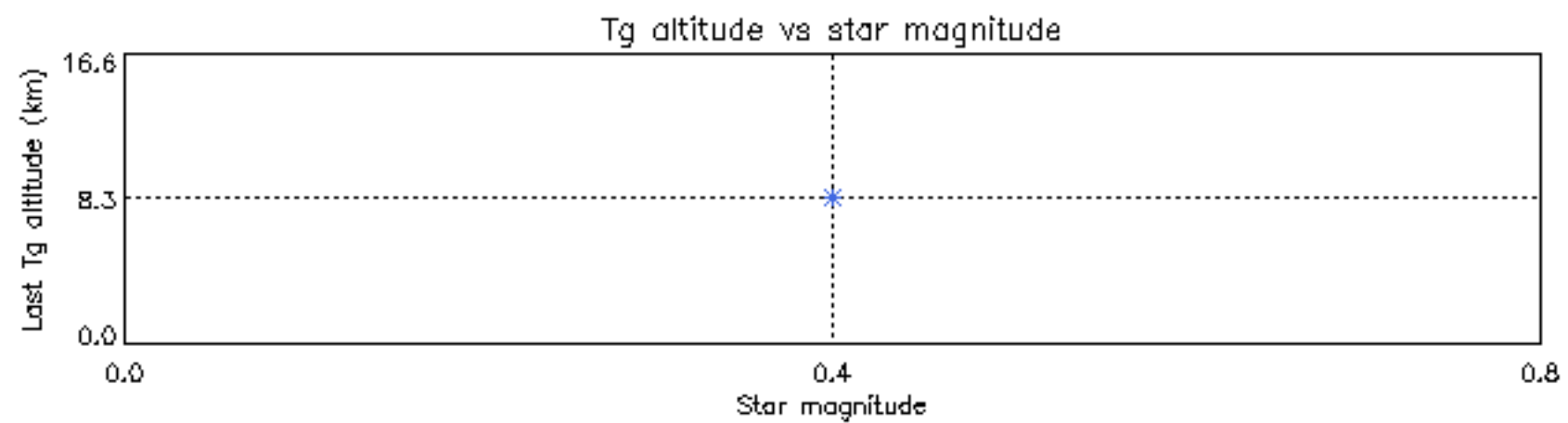
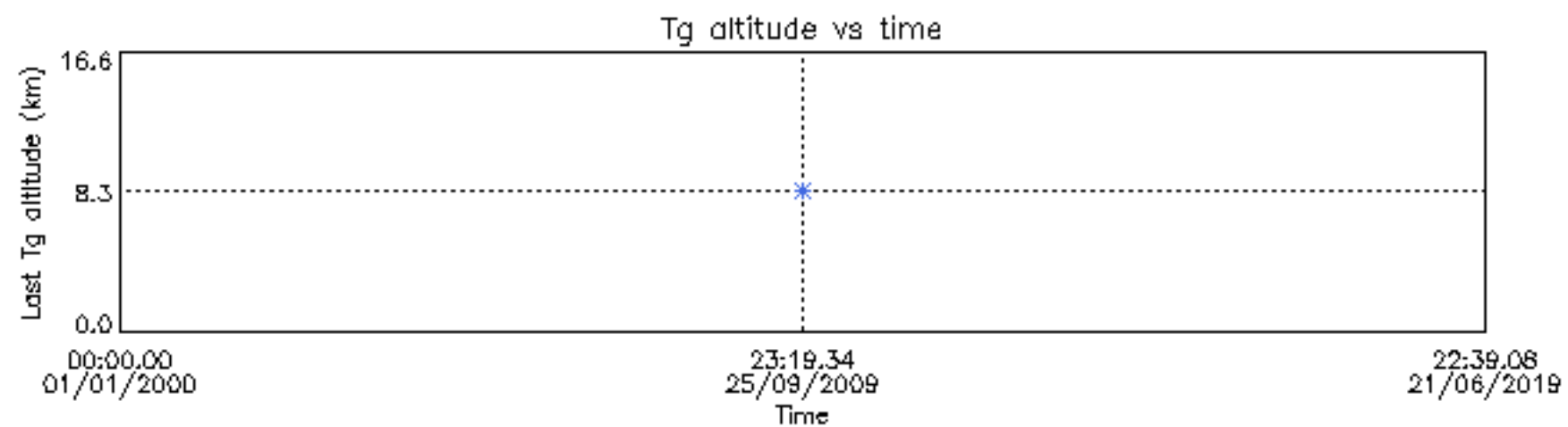
Percentage of star falling outside central band per profile



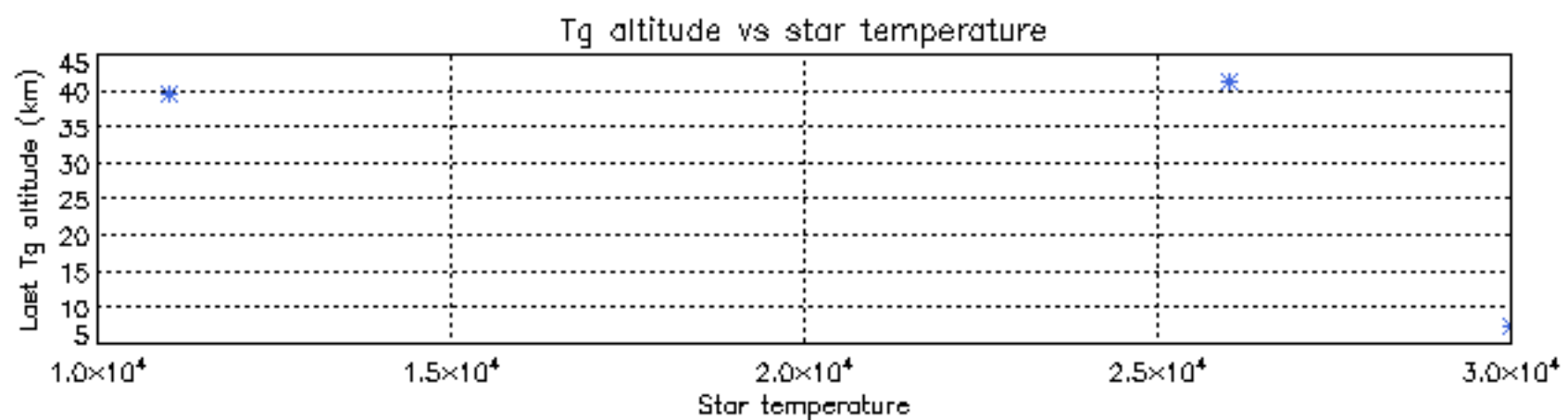
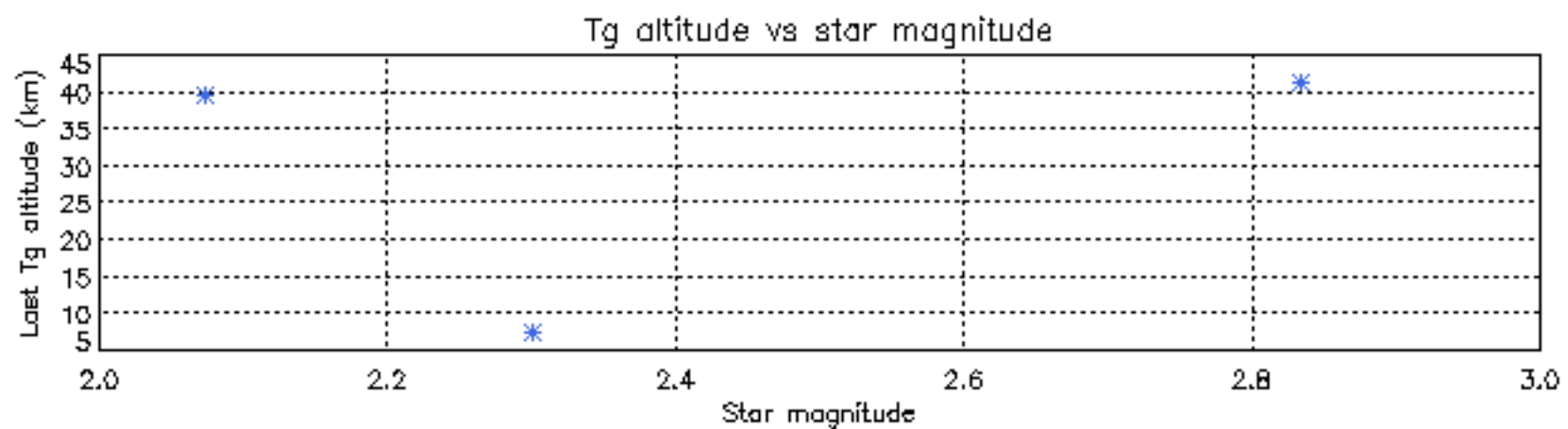
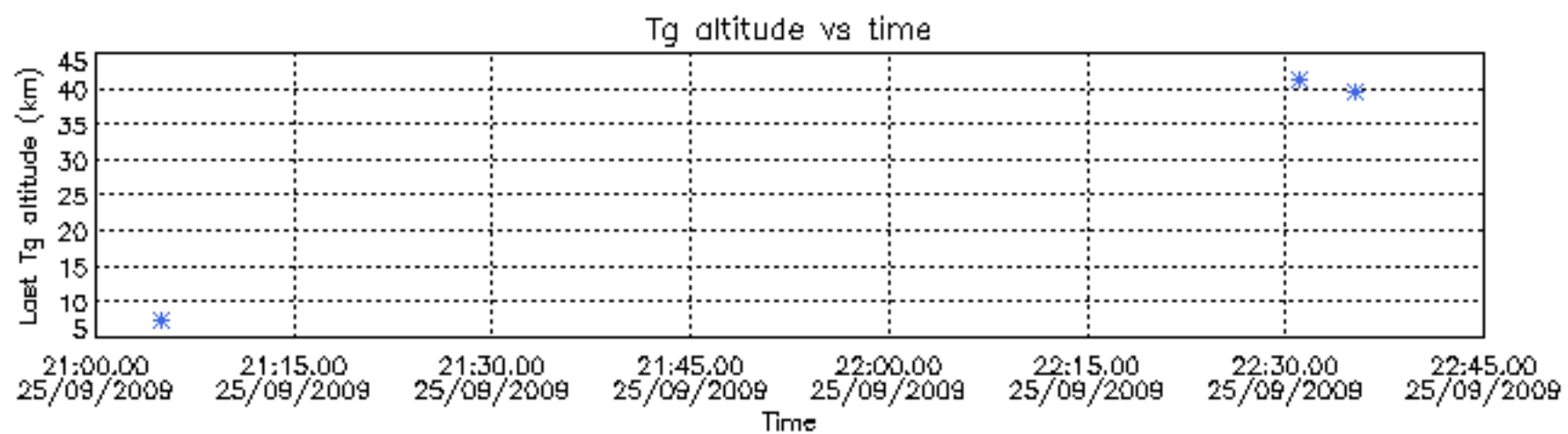
Percentage of saturation errors per profile

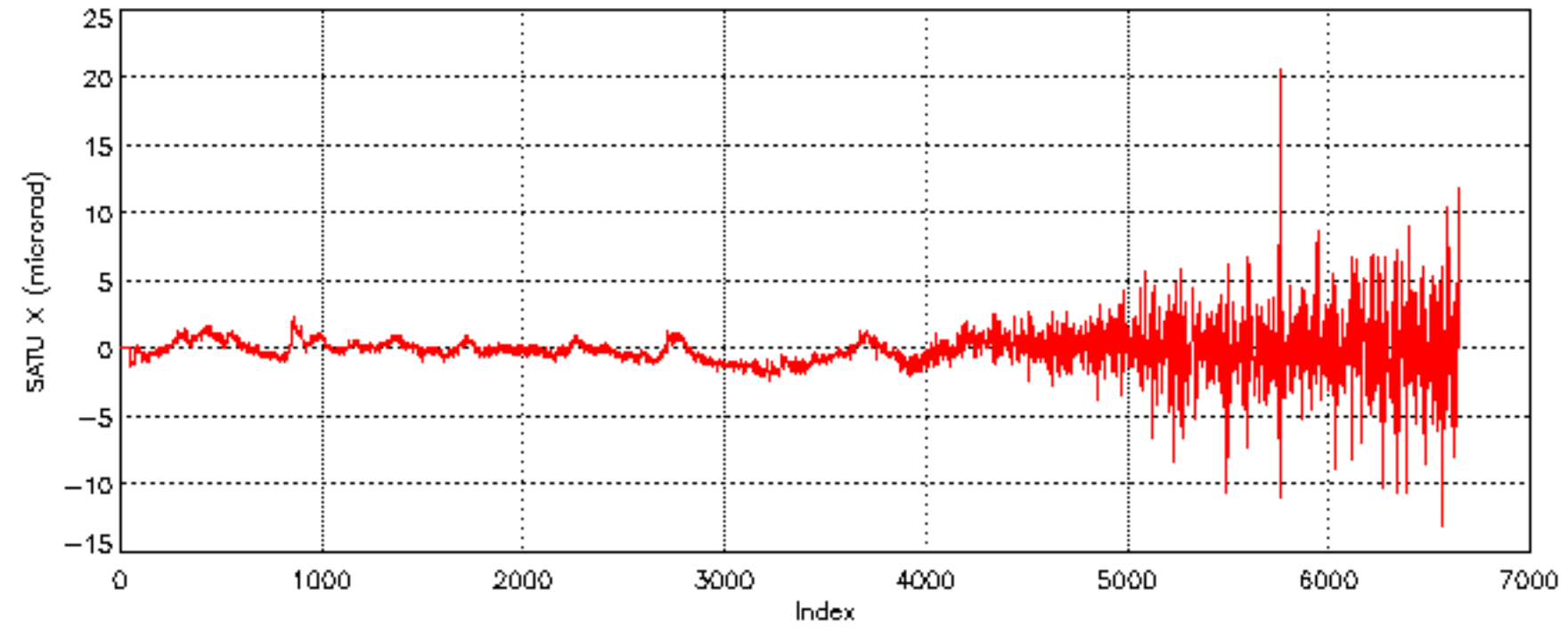


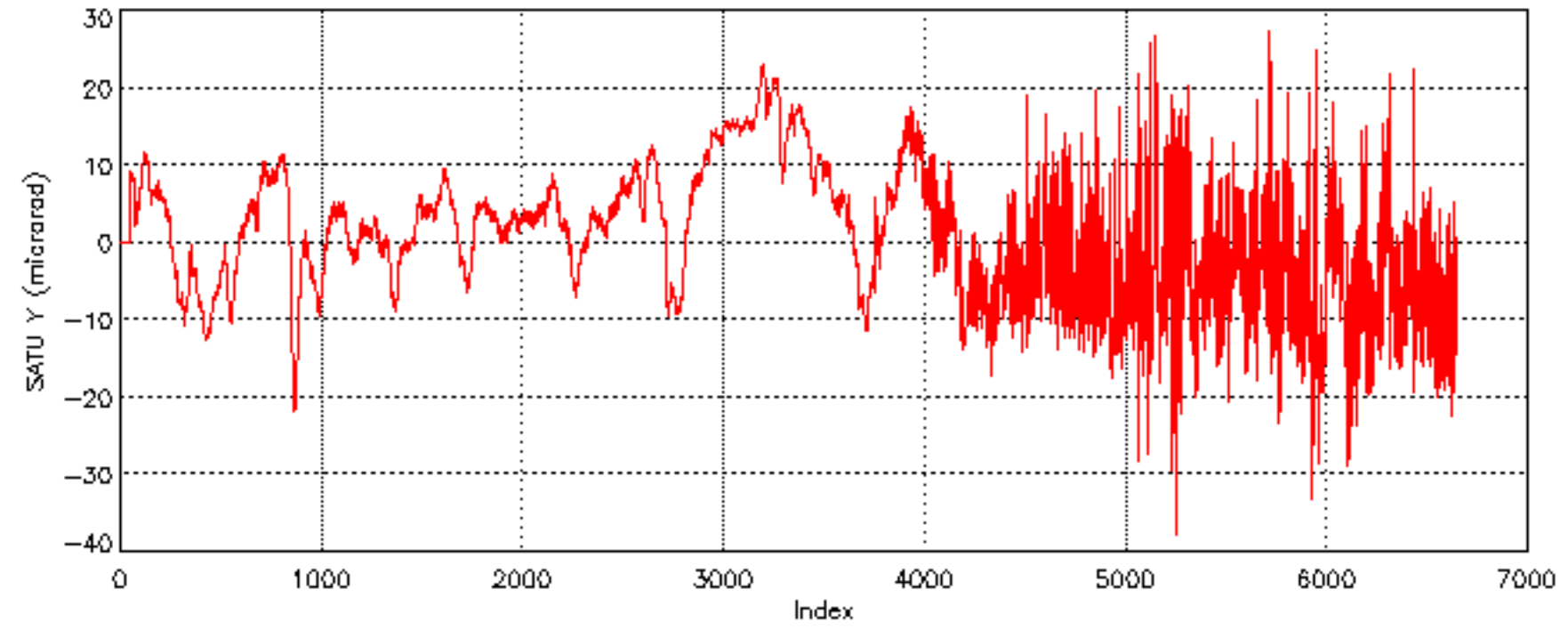
Tangent altitude at which the star is lost

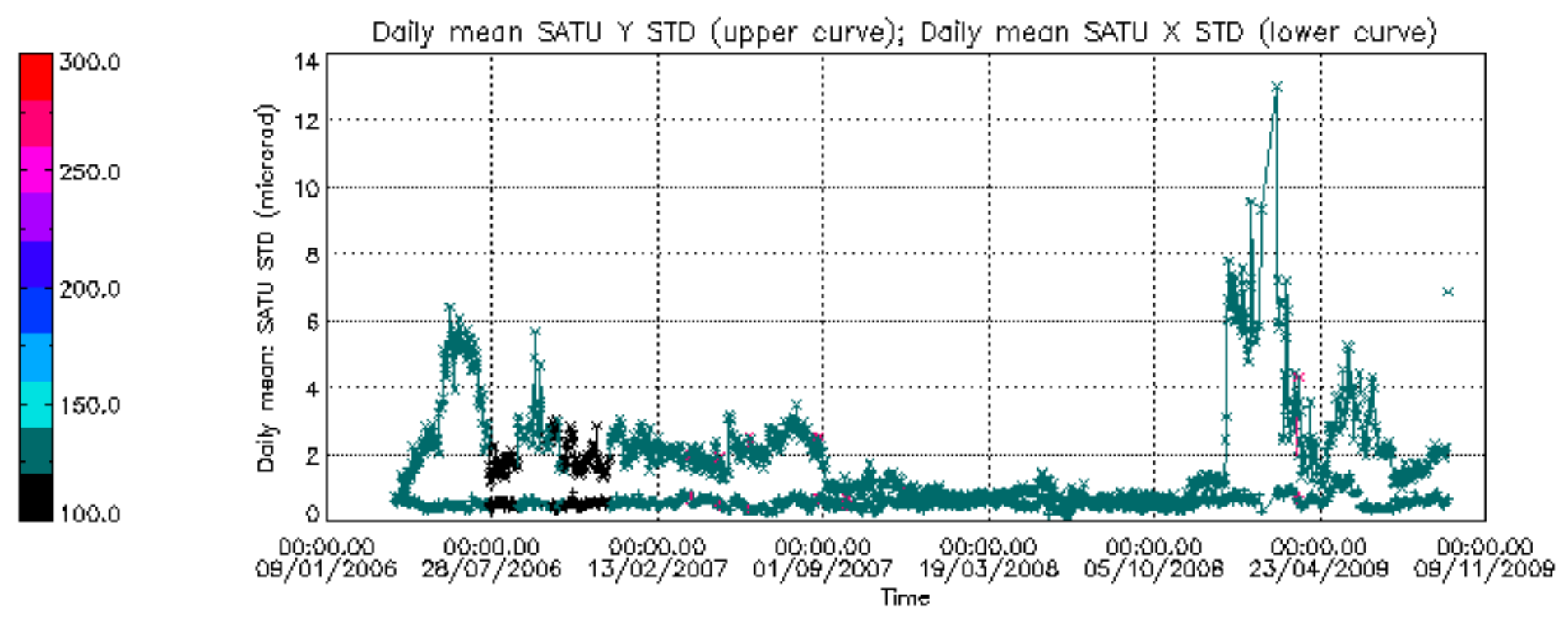


Tangent altitude at which the star is lost









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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
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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2; -1657.5; 01-SEP-2009 03:54:07; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;39236
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
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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
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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
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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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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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5; 3136.1; 01-SEP-2009 20:19:24; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;39246
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
10; 4797.1; 01-SEP-2009 20:47:05; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;39246
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2; -707.7; 01-SEP-2009 20:55:56; Dark ; 61.0; 33; 50Zet Ori ; 1.77; 30000;occ; 122; 0;39246
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
14; 4378.3; 01-SEP-2009 22:20:43; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;39247
15; 4690.8; 01-SEP-2009 22:25:55; Dark ; 49.5; 151; 13Mu Gem ; 2.89; 3000;occ; 99; 0;39247
16; 4797.5; 01-SEP-2009 22:27:42; Dark ; 52.5; 44; 24Gam Gem ; 1.93; 11000;occ; 105; 0;39247
17; 5079.4; 01-SEP-2009 22:32:24; Dark ; 65.5; 14; 58Alp Ori ; 0.87; 3000;occ; 131; 0;39247
18; 5329.2; 01-SEP-2009 22:36:33; Dark ; 23.5; 33; 50Zet Ori ; 1.77; 30000;occ; 47; 0;39247
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2; -575.8; 01-SEP-2009 22:38:44; Dark ; 49.5; 47; 2Bet CMA ; 1.98; 28000;occ; 99; 0;39247
3; -397.9; 01-SEP-2009 22:41:42; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;39247
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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
10; 3261.8; 01-SEP-2009 23:42:42; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;39248
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12; 4378.2; 02-SEP-2009 00:01:18; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;39248
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
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 11; 4993.3; 14-SEP-2009 15:39:55; Dark ; 51.5; 8; 10Alp CMi ; 0.40; 6500;occ; 103; 0;39429
 12; 5530.4; 14-SEP-2009 15:48:52; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;39429
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 14; 5888.4; 14-SEP-2009 15:54:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39429
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 4; 2416.7; 14-SEP-2009 16:37:34; Bright; 43.0; 93; 53Bet Peg ; 2.52; 3100;occ; 86; 0;39430
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7; 800.3; 21-SEP-2009 05:46:54; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39524
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9; 2229.7; 21-SEP-2009 06:10:43; Bright; 45.0; 140; 88Gam Peg ; 2.83; 26000;occ; 90; 0;39524
10; 2491.0; 21-SEP-2009 06:15:04; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;39524
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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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 7; 811.9; 22-SEP-2009 03:34:52; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;39537
 8; 1540.0; 22-SEP-2009 03:47:00; Dark ; 52.5; 52; 16Bet Cet ; 2.04; 4500;occ; 105; 0;39537
 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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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; 5061.8; 22-SEP-2009 16:29:53; Dark ; 61.0; 8; 10Alp CMi ; 0.40; 6500;occ; 122; 0;39544
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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
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
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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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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
11; 5800.3; 30-SEP-2009 19:11:39; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39660
12; 5904.0; 30-SEP-2009 19:13:22; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39660
13; 6129.9; 30-SEP-2009 19:17:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39660
14; 6337.0; 30-SEP-2009 19:20:35; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39660
15; 6949.1; 30-SEP-2009 19:30:47; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 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
3; 2435.7; 30-SEP-2009 19:56:10; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;39661
4; 2661.9; 30-SEP-2009 19:59:56; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;39661
5; 2946.5; 30-SEP-2009 20:04:41; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39661

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7;	4512.4;	30-SEP-2009	20:30:47;	Bright;	37.0;	24;	66Alp Gem	;	1.58;	10200;occ;	74;	0;	39661	
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
10;	5585.2;	30-SEP-2009	20:48:39;	Dark	;	35.0;	132;	15Rho Pup	;	2.80;	6900;occ;	70;	0;	39661
11;	5801.6;	30-SEP-2009	20:52:16;	Dark	;	40.0;	88;	31Eta CMa	;	2.45;	20000;occ;	80;	0;	39661
12;	5905.4;	30-SEP-2009	20:54:00;	Dark	;	44.0;	23;	21Eps CMa	;	1.50;	26000;occ;	88;	0;	39661
13;	6131.0;	30-SEP-2009	20:57:45;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	39661
14;	6338.5;	30-SEP-2009	21:01:13;	Dark	;	52.0;	108;	Alp Col	;	2.65;	15200;occ;	104;	0;	39661
15;	6949.6;	30-SEP-2009	21:11:24;	Dark	;	40.0;	157;	The1Eri	;	2.91;	9300;occ;	80;	0;	39661