

GOMOS Daily Report 02-OCT-2011

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	05OCT2011 07:01:37
Data source version	GOMOS/6.01
Start time of products	02OCT2011 18:20:12
Stop time of products	02OCT2011 22:52:51
Store outputs in DB	Yes
Nb of level 1b prods	11
Nb of prods with errors	0

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

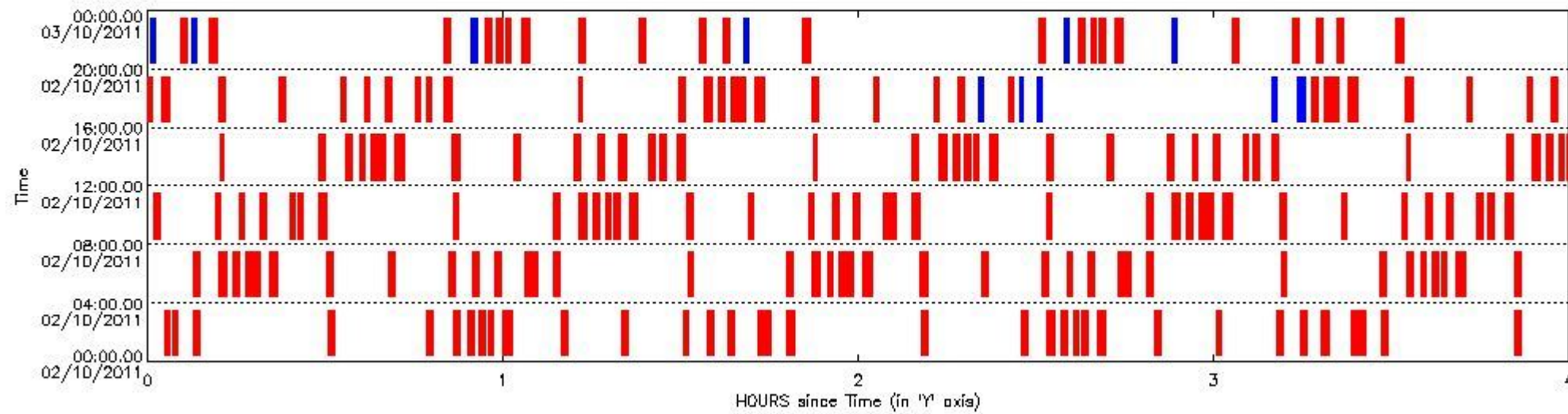
2.1 Level 0 products arrived in PCF (see template [here](#))

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
02-OCT-2011 00:02:50	11BetCas	74	50145
02-OCT-2011 00:04:06	27GamCas	76	50145
02-OCT-2011 00:07:45	23GamPer	160	50145
02-OCT-2011 00:30:26	78BetGem	17	50145
02-OCT-2011 00:47:07	15RhoPup	132	50145
02-OCT-2011 00:51:27	25DelCMa	37	50145
02-OCT-2011 00:53:57	DSA1055	0	50145
02-OCT-2011 00:55:59	TauPup	161	50146
02-OCT-2011 00:57:23	AlpCar	2	50146
02-OCT-2011 00:59:58	AlpCol	108	50146
02-OCT-2011 01:09:43	The1Eri	157	50146
02-OCT-2011 01:20:06	16BetCet	52	50146
02-OCT-2011 01:30:22	88GamPeg	140	50146
02-OCT-2011 01:34:29	21AlpAnd	58	50146
02-OCT-2011 01:38:00	43BetAnd	53	50146

02-OCT-2011 01:43:03	11BetCas	74	50146
02-OCT-2011 01:44:19	27GamCas	76	50146
02-OCT-2011 01:47:58	23GamPer	160	50146
02-OCT-2011 02:10:40	78BetGem	17	50146
02-OCT-2011 02:27:22	15RhoPup	132	50146
02-OCT-2011 02:31:43	25DelCMa	37	50146
02-OCT-2011 02:34:12	DSA1055	0	50146
02-OCT-2011 02:36:14	TauPup	161	50147
02-OCT-2011 02:37:38	AlpCar	2	50147
02-OCT-2011 02:40:13	AlpCol	108	50147
02-OCT-2011 02:49:58	The1Eri	157	50147
02-OCT-2011 03:00:21	16BetCet	52	50147
02-OCT-2011 03:10:36	88GamPeg	140	50147
02-OCT-2011 03:14:42	21AlpAnd	58	50147
02-OCT-2011 03:18:14	43BetAnd	53	50147
02-OCT-2011 03:23:17	11BetCas	74	50147
02-OCT-2011 03:24:33	27GamCas	76	50147
02-OCT-2011 03:28:11	23GamPer	160	50147
02-OCT-2011 03:50:54	78BetGem	17	50147
02-OCT-2011 04:07:36	15RhoPup	132	50147
02-OCT-2011 04:11:58	25DelCMa	37	50147
02-OCT-2011 04:14:26	DSA1055	0	50147
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02-OCT-2011 04:17:52	AlpCar	2	50148
02-OCT-2011 04:20:29	AlpCol	108	50148
02-OCT-2011 04:30:12	The1Eri	157	50148
02-OCT-2011 04:40:35	16BetCet	52	50148
02-OCT-2011 04:50:50	88GamPeg	140	50148
02-OCT-2011 04:54:56	21AlpAnd	58	50148
02-OCT-2011 04:58:27	43BetAnd	53	50148
02-OCT-2011 05:03:31	11BetCas	74	50148
02-OCT-2011 05:04:47	27GamCas	76	50148
02-OCT-2011 05:08:24	23GamPer	160	50148
02-OCT-2011 05:31:09	78BetGem	17	50148
02-OCT-2011 05:47:51	15RhoPup	132	50148
02-OCT-2011 05:52:13	25DelCMa	37	50148
02-OCT-2011 05:54:41	DSA1055	0	50148
02-OCT-2011 05:56:43	TauPup	161	50149
02-OCT-2011 05:58:07	AlpCar	2	50149
02-OCT-2011 06:00:44	AlpCol	108	50149
02-OCT-2011 06:10:27	The1Eri	157	50149
02-OCT-2011 06:20:49	16BetCet	52	50149
02-OCT-2011 06:31:03	88GamPeg	140	50149
02-OCT-2011 06:35:10	21AlpAnd	58	50149
02-OCT-2011 06:38:40	43BetAnd	53	50149
02-OCT-2011 06:43:45	11BetCas	74	50149
02-OCT-2011 06:45:00	27GamCas	76	50149
02-OCT-2011 06:48:37	23GamPer	160	50149
02-OCT-2011 07:11:23	78BetGem	17	50149
02-OCT-2011 07:28:06	15RhoPup	132	50149
02-OCT-2011 07:32:28	25DelCMa	37	50149
02-OCT-2011 07:34:56	DSA1055	0	50149
02-OCT-2011 07:36:58	TauPup	161	50150
02-OCT-2011 07:38:22	AlpCar	2	50150
02-OCT-2011 07:41:00	AlpCol	108	50150
02-OCT-2011 07:50:42	The1Eri	157	50150
02-OCT-2011 08:01:03	16BetCet	52	50150
02-OCT-2011 08:11:17	88GamPeg	140	50150
02-OCT-2011 08:15:23	21AlpAnd	58	50150

02-OCT-2011 08:18:54	43BetAnd	53	50150
02-OCT-2011 08:23:58	11BetCas	74	50150
02-OCT-2011 08:25:14	27GamCas	76	50150
02-OCT-2011 08:28:50	23GamPer	160	50150
02-OCT-2011 08:51:37	78BetGem	17	50150
02-OCT-2011 09:08:21	15RhoPup	132	50150
02-OCT-2011 09:12:44	25DelCMa	37	50150
02-OCT-2011 09:15:10	DSA1055	0	50150
02-OCT-2011 09:17:12	TauPup	161	50151
02-OCT-2011 09:18:37	AlpCar	2	50151
02-OCT-2011 09:21:15	AlpCol	108	50151
02-OCT-2011 09:30:56	The1Eri	157	50151
02-OCT-2011 09:41:17	16BetCet	52	50151
02-OCT-2011 09:51:31	88GamPeg	140	50151
02-OCT-2011 09:55:37	21AlpAnd	58	50151
02-OCT-2011 09:59:07	43BetAnd	53	50151
02-OCT-2011 10:04:12	11BetCas	74	50151
02-OCT-2011 10:05:27	27GamCas	76	50151
02-OCT-2011 10:09:03	23GamPer	160	50151
02-OCT-2011 10:31:51	78BetGem	17	50151
02-OCT-2011 10:48:36	15RhoPup	132	50151
02-OCT-2011 10:52:59	25DelCMa	37	50151
02-OCT-2011 10:55:25	DSA1055	0	50151
02-OCT-2011 10:57:27	TauPup	161	50152
02-OCT-2011 10:58:51	AlpCar	2	50152
02-OCT-2011 11:01:31	AlpCol	108	50152
02-OCT-2011 11:11:11	The1Eri	157	50152
02-OCT-2011 11:21:31	16BetCet	52	50152
02-OCT-2011 11:31:45	88GamPeg	140	50152
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02-OCT-2011 11:39:20	43BetAnd	53	50152
02-OCT-2011 11:44:26	11BetCas	74	50152
02-OCT-2011 11:46:17	37DelCas	110	50152
02-OCT-2011 11:49:16	23GamPer	160	50152
02-OCT-2011 12:12:06	78BetGem	17	50152
02-OCT-2011 12:28:51	15RhoPup	132	50152
02-OCT-2011 12:33:14	25DelCMa	37	50152
02-OCT-2011 12:35:40	DSA1055	0	50152
02-OCT-2011 12:37:42	TauPup	161	50153
02-OCT-2011 12:39:06	AlpCar	2	50153
02-OCT-2011 12:41:46	AlpCol	108	50153
02-OCT-2011 12:51:26	The1Eri	157	50153
02-OCT-2011 13:01:45	16BetCet	52	50153
02-OCT-2011 13:11:59	88GamPeg	140	50153
02-OCT-2011 13:16:05	21AlpAnd	58	50153
02-OCT-2011 13:19:34	43BetAnd	53	50153
02-OCT-2011 13:24:39	11BetCas	74	50153
02-OCT-2011 13:26:30	37DelCas	110	50153
02-OCT-2011 13:29:29	23GamPer	160	50153
02-OCT-2011 13:52:20	78BetGem	17	50153
02-OCT-2011 14:09:05	15RhoPup	132	50153
02-OCT-2011 14:13:30	25DelCMa	37	50153
02-OCT-2011 14:15:55	DSA1055	0	50153
02-OCT-2011 14:17:57	TauPup	161	50154
02-OCT-2011 14:19:21	AlpCar	2	50154
02-OCT-2011 14:22:02	AlpCol	108	50154
02-OCT-2011 14:31:40	The1Eri	157	50154
02-OCT-2011 14:41:59	16BetCet	52	50154
02-OCT-2011 14:52:12	88GamPeg	140	50154

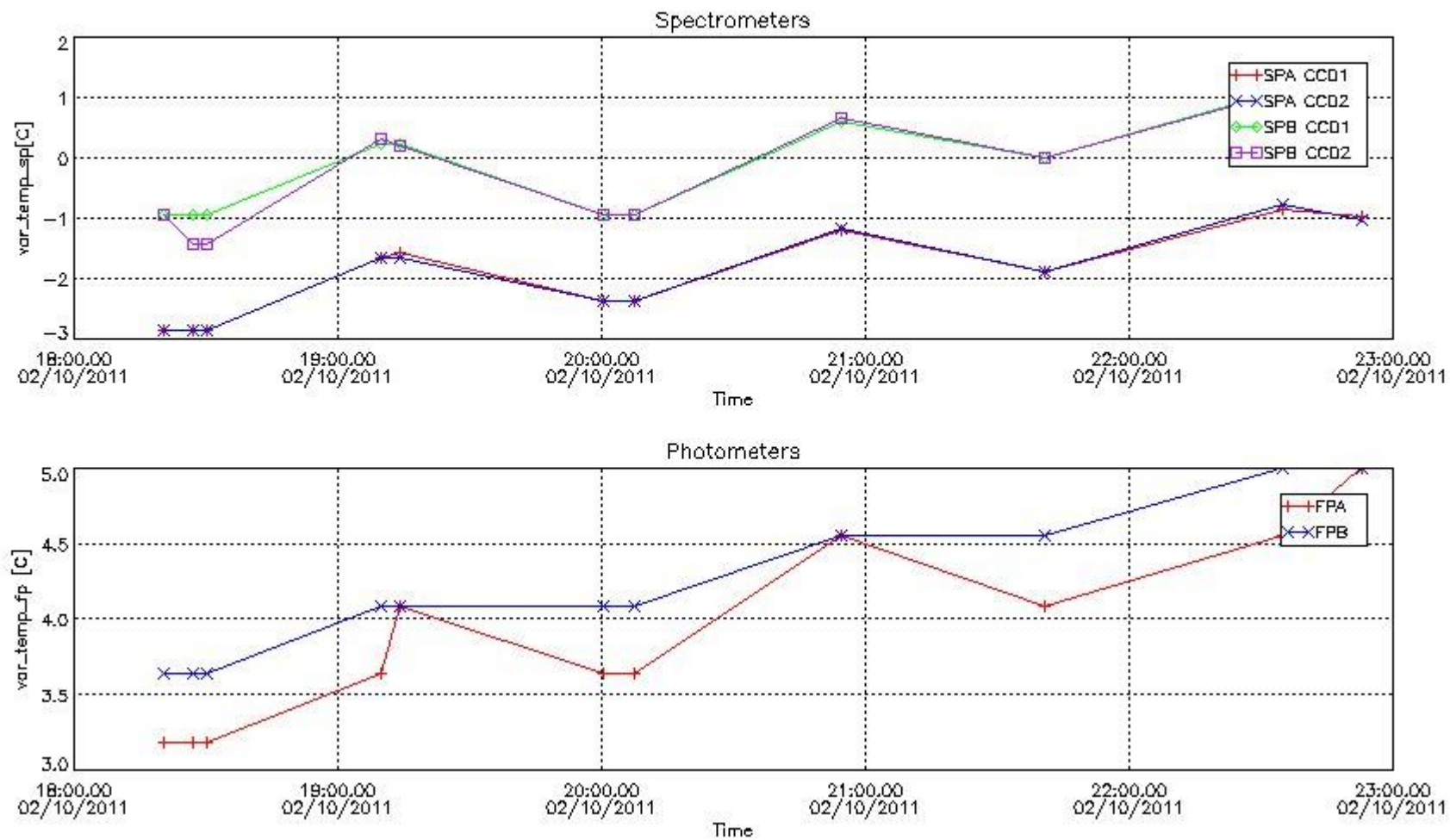
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02-OCT-2011 14:59:47	43BetAnd	53	50154
02-OCT-2011 15:04:53	11BetCas	74	50154
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02-OCT-2011 15:32:34	78BetGem	17	50154
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02-OCT-2011 15:53:45	25DelCMA	37	50154
02-OCT-2011 15:56:09	DSA1055	0	50154
02-OCT-2011 15:58:11	TauPup	161	50155
02-OCT-2011 15:59:35	AlpCar	2	50155
02-OCT-2011 16:02:17	AlpCol	108	50155
02-OCT-2011 16:11:55	The1Eri	157	50155
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02-OCT-2011 17:36:24	DSA1055	0	50155
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02-OCT-2011 17:39:50	AlpCar	2	50156
02-OCT-2011 17:42:33	AlpCol	108	50156
02-OCT-2011 17:52:09	The1Eri	157	50156
02-OCT-2011 18:02:27	16BetCet	52	50156
02-OCT-2011 18:12:40	88GamPeg	140	50156
02-OCT-2011 18:16:46	21AlpAnd	58	50156
02-OCT-2011 18:25:21	11BetCas	74	50156
02-OCT-2011 19:16:39	DSA1055	0	50156
02-OCT-2011 19:18:41	TauPup	161	50157
02-OCT-2011 19:20:05	AlpCar	2	50157
02-OCT-2011 19:22:48	AlpCol	108	50157
02-OCT-2011 19:32:24	The1Eri	157	50157
02-OCT-2011 19:42:42	16BetCet	52	50157
02-OCT-2011 19:52:54	88GamPeg	140	50157
02-OCT-2011 19:56:59	21AlpAnd	58	50157
02-OCT-2011 20:05:34	11BetCas	74	50157
02-OCT-2011 20:10:21	23GamPer	160	50157
02-OCT-2011 20:50:05	15RhoPup	132	50157
02-OCT-2011 20:56:54	DSA1055	0	50157
02-OCT-2011 20:58:56	TauPup	161	50158
02-OCT-2011 21:00:20	AlpCar	2	50158
02-OCT-2011 21:03:03	AlpCol	108	50158
02-OCT-2011 21:12:39	The1Eri	157	50158
02-OCT-2011 21:22:56	16BetCet	52	50158
02-OCT-2011 21:33:08	88GamPeg	140	50158
02-OCT-2011 21:37:13	21AlpAnd	58	50158
02-OCT-2011 21:50:34	23GamPer	160	50158
02-OCT-2011 22:30:20	15RhoPup	132	50158
02-OCT-2011 22:37:08	DSA1055	0	50158
02-OCT-2011 22:39:10	TauPup	161	50159
02-OCT-2011 22:40:34	AlpCar	2	50159
02-OCT-2011 22:43:19	AlpCol	108	50159
02-OCT-2011 23:03:10	16BetCet	52	50159
02-OCT-2011 23:13:21	88GamPeg	140	50159

02-OCT-2011 23:17:27	21AlpAnd	58	50159
02-OCT-2011 23:20:54	43BetAnd	53	50159
02-OCT-2011 23:30:47	23GamPer	160	50159

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_1PNPDK20111002_182012_000000483107_00142_50156_2492.N1	02-OCT-2011 18:20:12	Bright	47.500	53	43Bet And	2.0480	3300.0	95	50156	No
2	GOM_TRA_1PNPDK20111002_182709_000000413107_00142_50156_2493.N1	02-OCT-2011 18:27:09	Bright	41.000	110	37Del Cas	2.6780	8900.0	82	50156	No
3	GOM_TRA_1PNPDK20111002_183006_000000513107_00142_50156_2494.N1	02-OCT-2011 18:30:06	Bright	51.000	160	23Gam Per	2.9300	4700.0	102	50156	No
4	GOM_TRA_1PNPDK20111002_190948_000000473107_00142_50156_2495.N1	02-OCT-2011 19:09:48	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	50156	No
5	GOM_TRA_1PNPDK20111002_191414_000000683107_00142_50156_2496.N1	02-OCT-2011 19:14:14	Dark	68.000	37	25Del CMa	1.8300	5900.0	136	50156	No
6	GOM_TRA_1PNPDK20111002_200025_000000463107_00143_50157_2524.N1	02-OCT-2011 20:00:25	Bright	45.500	53	43Bet And	2.0480	3300.0	91	50157	No
7	GOM_TRA_1PNPDK20111002_200723_000000423107_00143_50157_2525.N1	02-OCT-2011 20:07:23	Bright	41.500	110	37Del Cas	2.6780	8900.0	83	50157	No
8	GOM_TRA_1PNPDK20111002_205429_000000663107_00143_50157_2526.N1	02-OCT-2011 20:54:29	Dark	66.000	37	25Del CMa	1.8300	5900.0	132	50157	No
9	GOM_TRA_1PNPDE20111002_214039_000000433107_00144_50158_3665.N1	02-OCT-2011 21:40:39	Bright	42.500	53	43Bet And	2.0480	3300.0	85	50158	No
10	GOM_TRA_1PNPDE20111002_223444_000000553107_00144_50158_3697.N1	02-OCT-2011 22:34:44	Dark	54.500	37	25Del CMa	1.8300	5900.0	109	50158	No
11	GOM_TRA_1PNPDE20111002_225251_000000503107_00145_50159_3698.N1	02-OCT-2011 22:52:51	Straylight	49.500	157	The1Eri	2.9060	9300.0	99	50159	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"

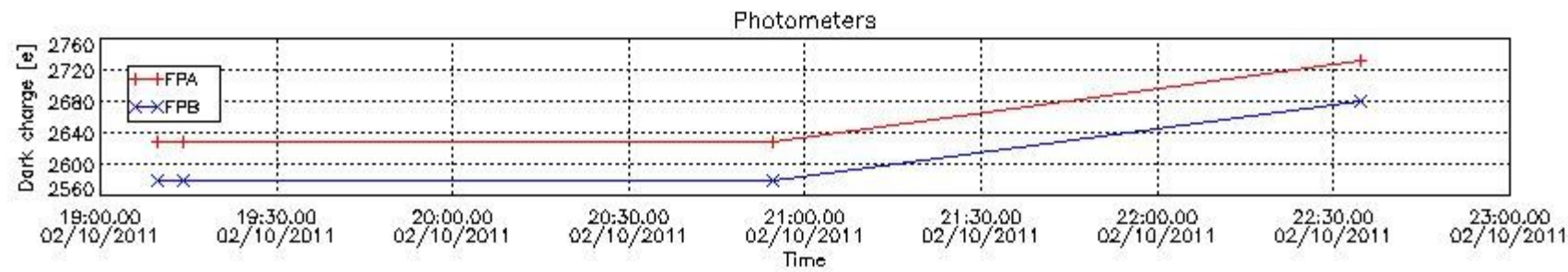
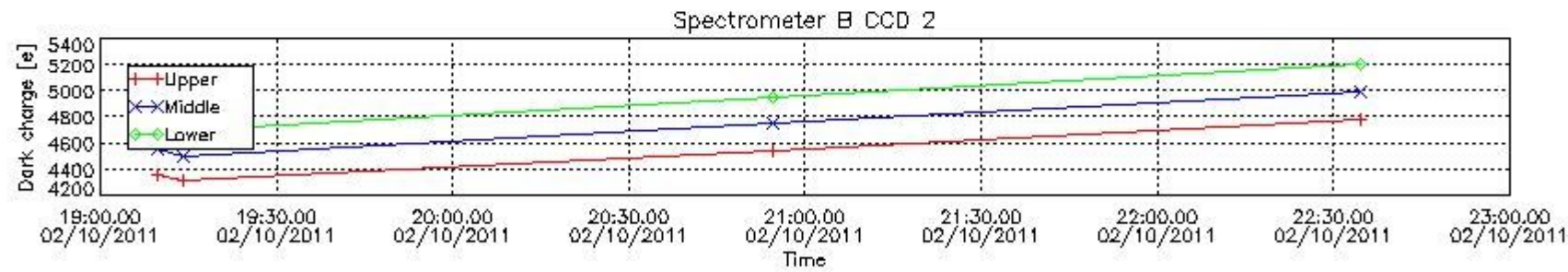
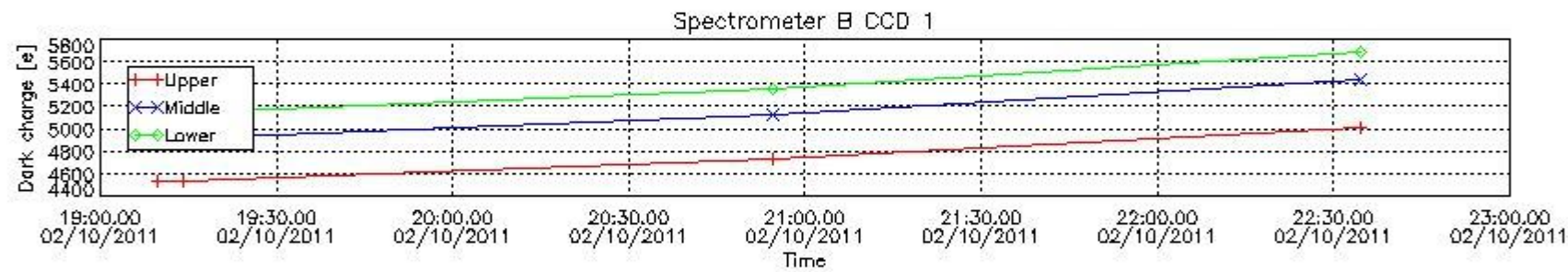
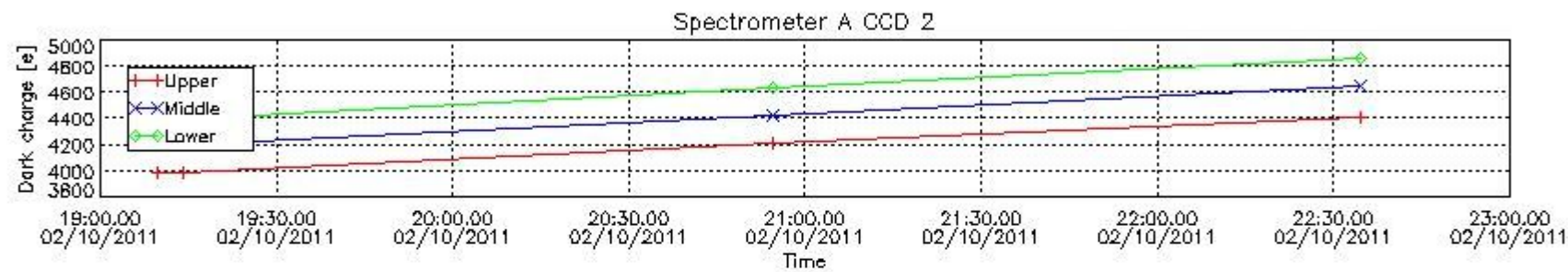
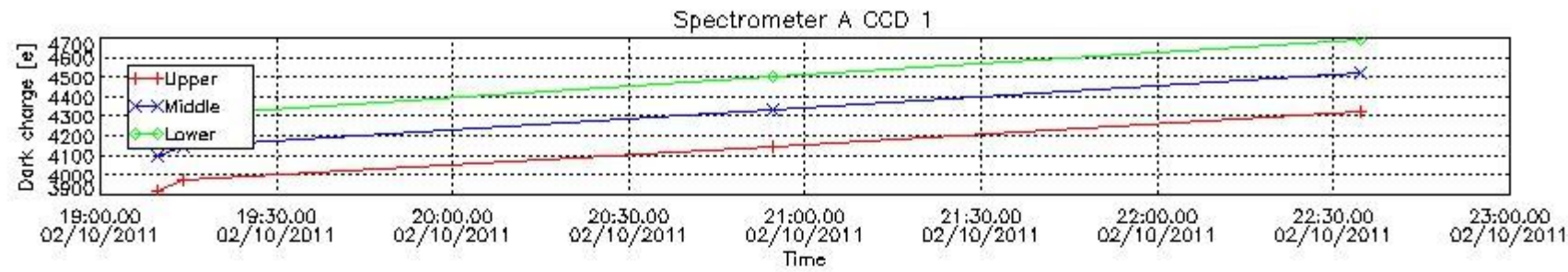
(a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

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_1PNPDK20111002_182012_000000483107_00142_50156_2492.N1	DC map used
GOM_TRA_1PNPDK20111002_182709_000000413107_00142_50156_2493.N1	DC map used
GOM_TRA_1PNPDK20111002_183006_000000513107_00142_50156_2494.N1	DC map used
GOM_TRA_1PNPDK20111002_190948_000000473107_00142_50156_2495.N1	DC map used
GOM_TRA_1PNPDK20111002_191414_000000683107_00142_50156_2496.N1	DC map used
GOM_TRA_1PNPDK20111002_200025_000000463107_00143_50157_2524.N1	DC map used
GOM_TRA_1PNPDK20111002_200723_000000423107_00143_50157_2525.N1	DC map used
GOM_TRA_1PNPDK20111002_205429_000000663107_00143_50157_2526.N1	DC map used
GOM_TRA_1PNPDE20111002_214039_000000433107_00144_50158_3665.N1	DC map used
GOM_TRA_1PNPDE20111002_223444_000000553107_00144_50158_3697.N1	DC map used
GOM_TRA_1PNPDE20111002_225251_000000503107_00145_50159_3698.N1	DC map used

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



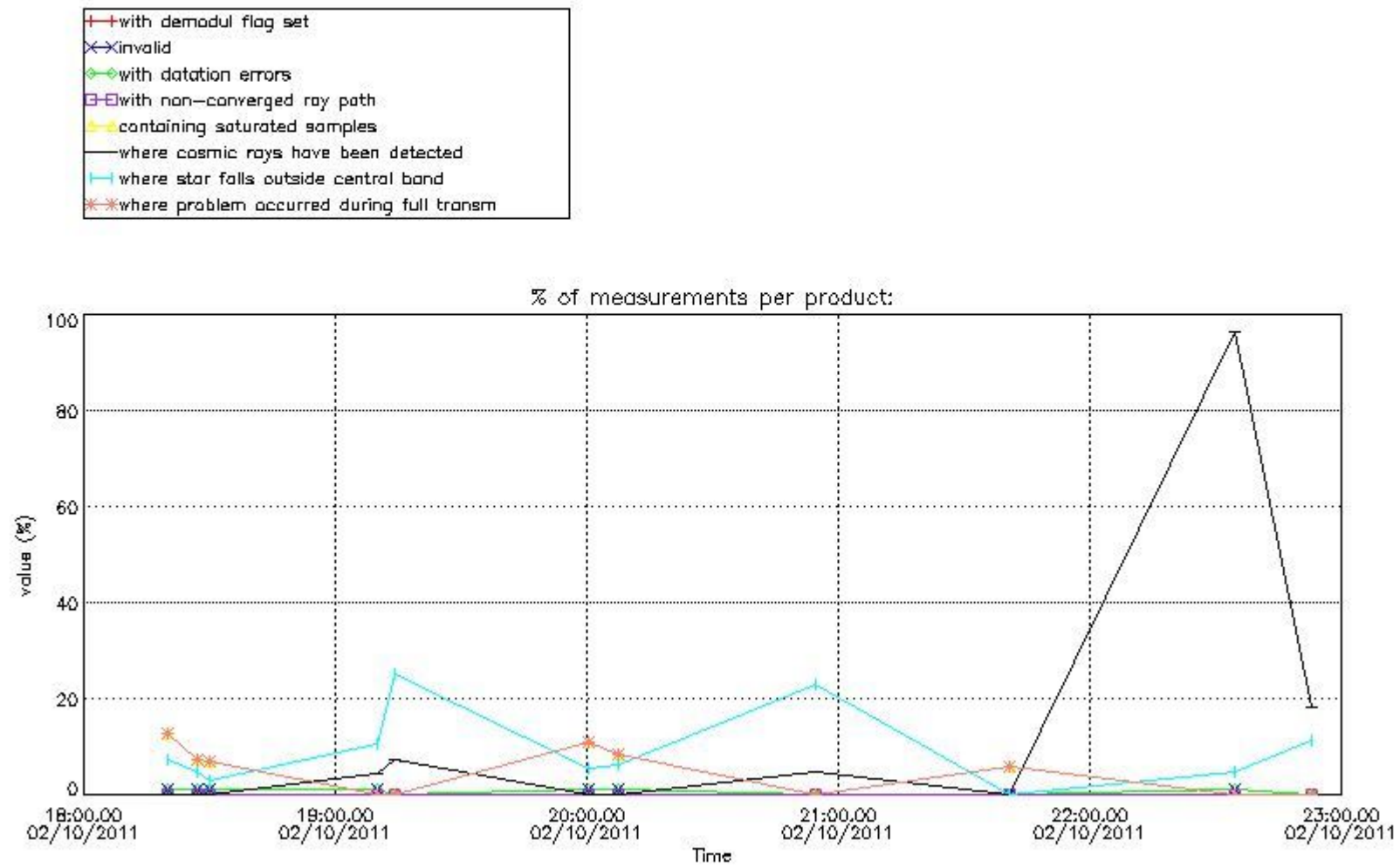
5. Demodulation flag and quality information monitoring

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.

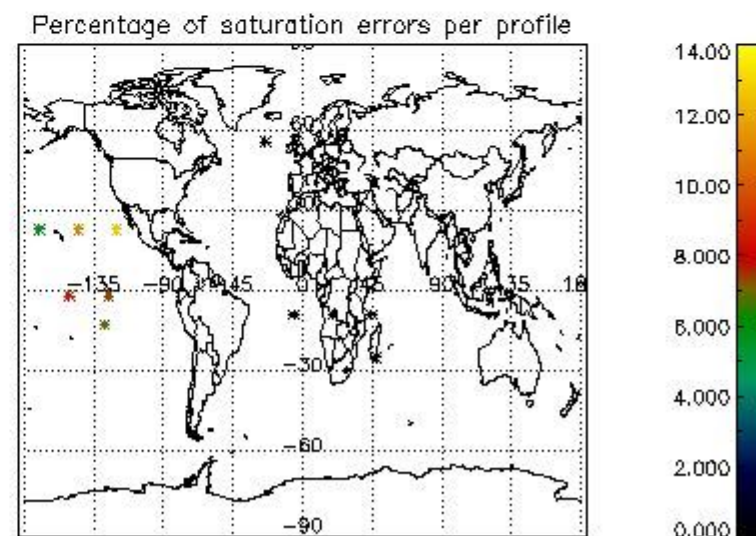
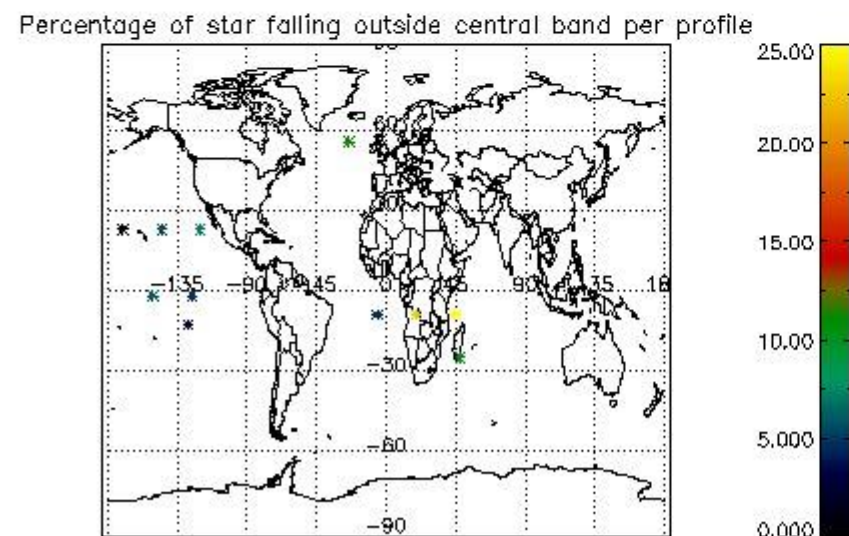
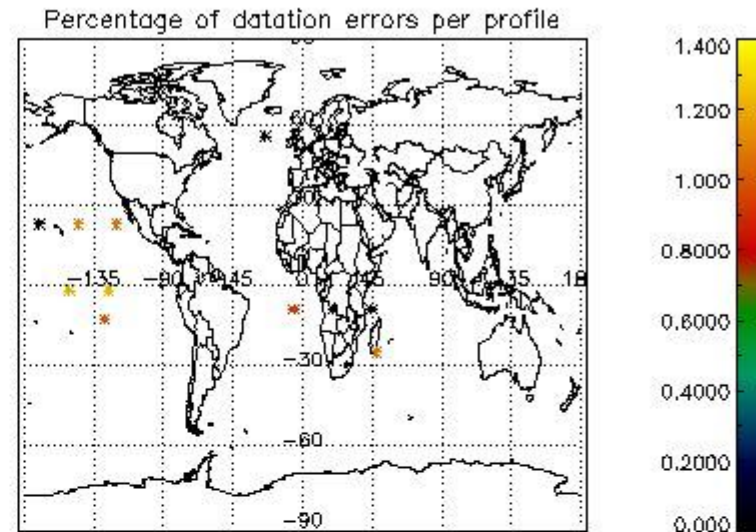
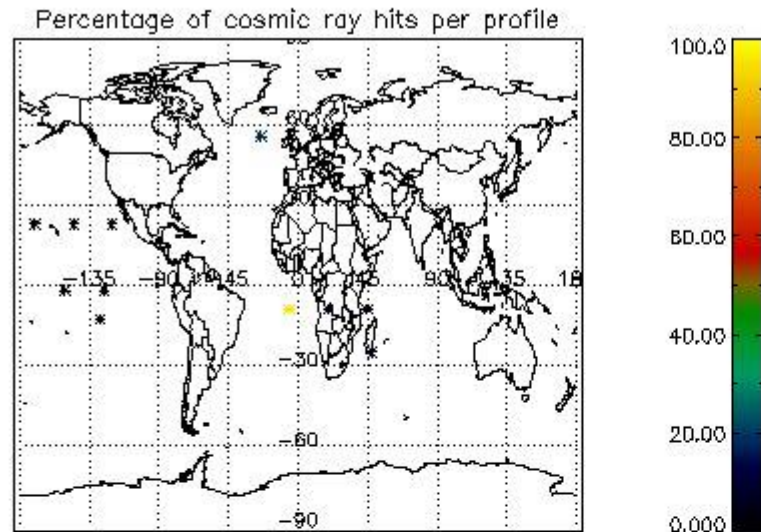
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	27.2727 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	54.5455 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



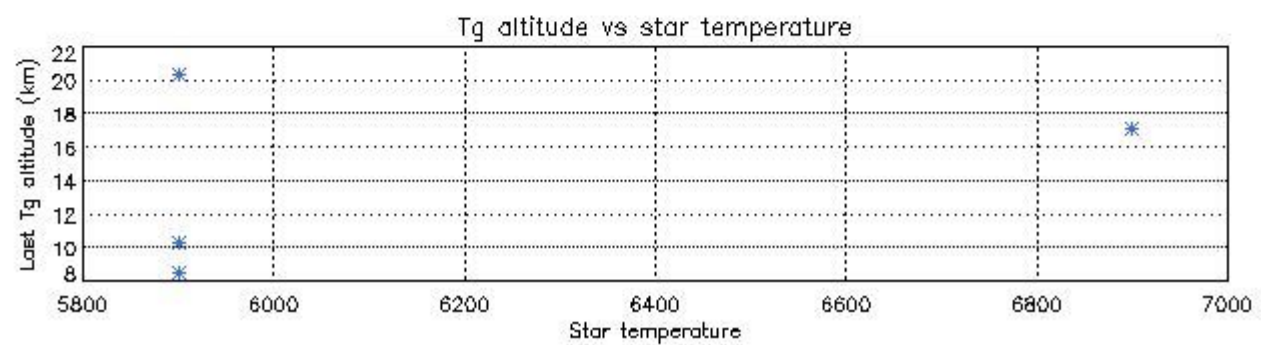
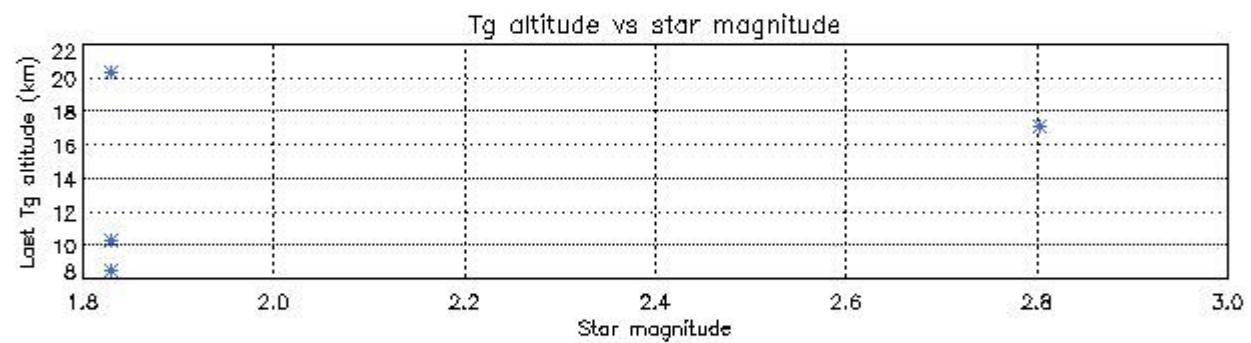
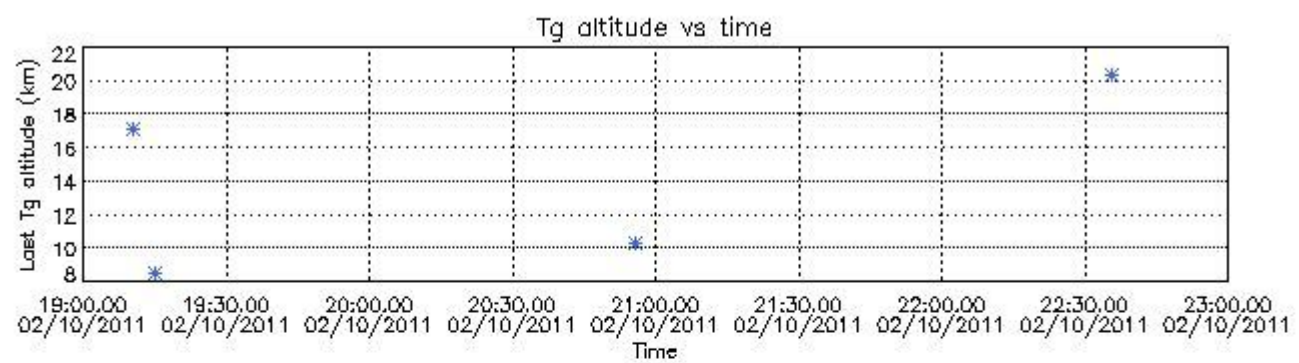
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.035	22.001	NaN
St. deviation:	5.6091	2.6636	NaN
Maximum:	20.350	26.226	NaN
Minimum:	8.4499	18.194	NaN
Number of data:	4.0000	6.0000	NaN

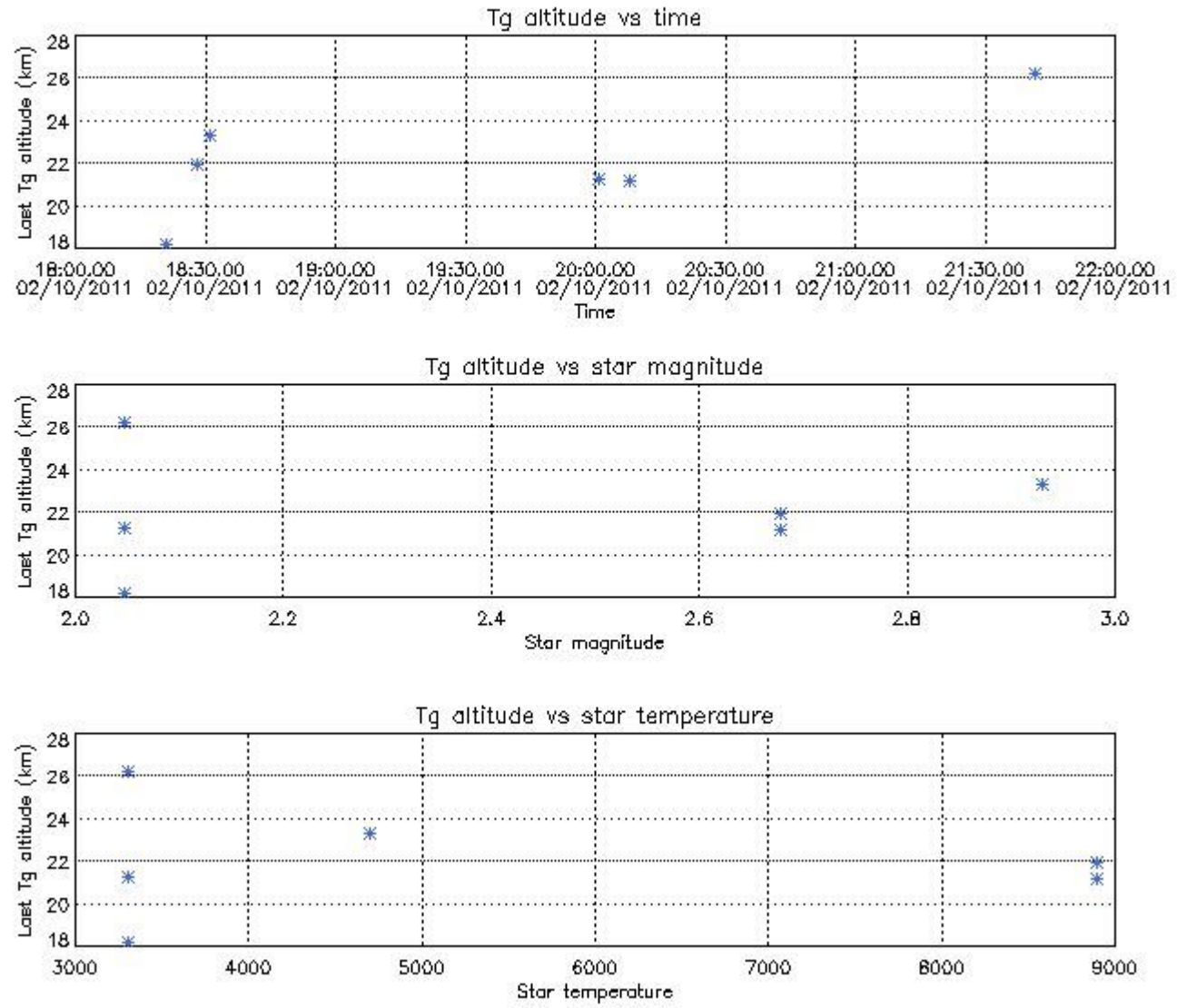
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

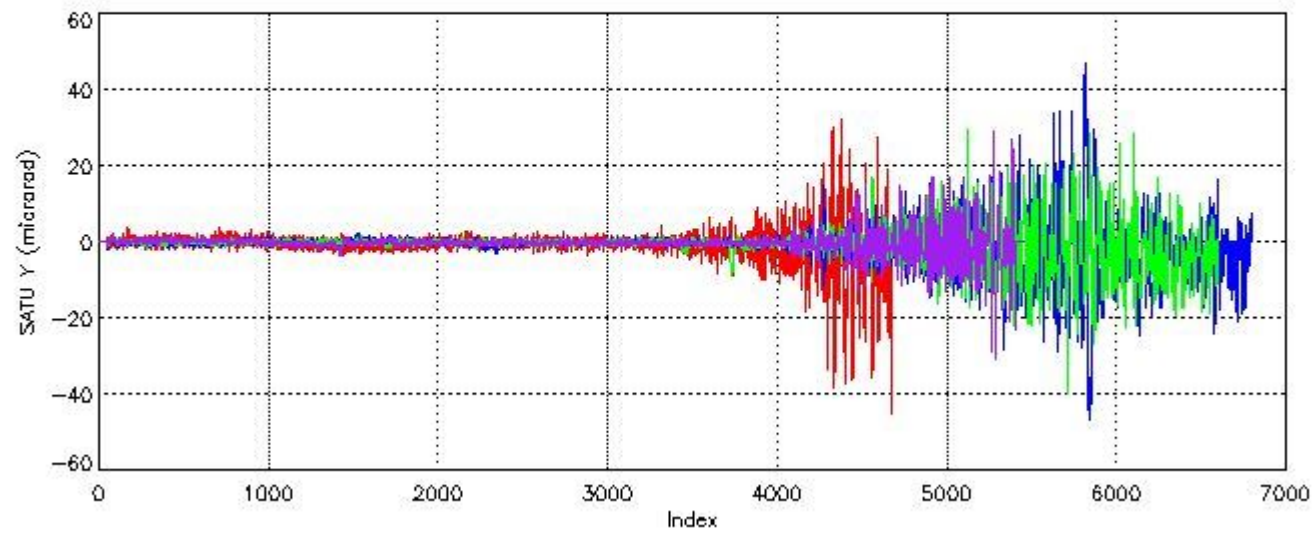
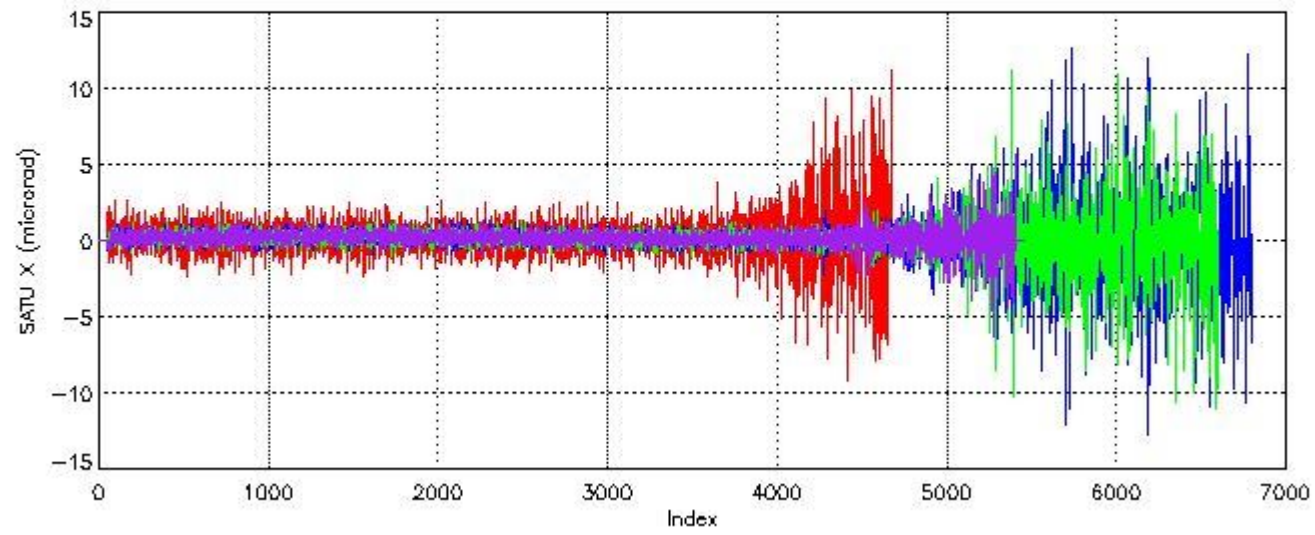


7. Star Acquisition and Tracking Unit (SATU)

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:	0.21121	-0.11960	0.26909	0.061960
St. deviation:	0.44955	0.60413	0.67764	2.4878
Maximum:	2.6000	3.6000	5.8000	30.300
Minimum:	-2.4000	-2.7000	-3.8000	-41.500

Number of data:	5150.0	5150.0	6600.0	6600.0
90Percentile:	0.70000	0.60000	1.1000	1.8000

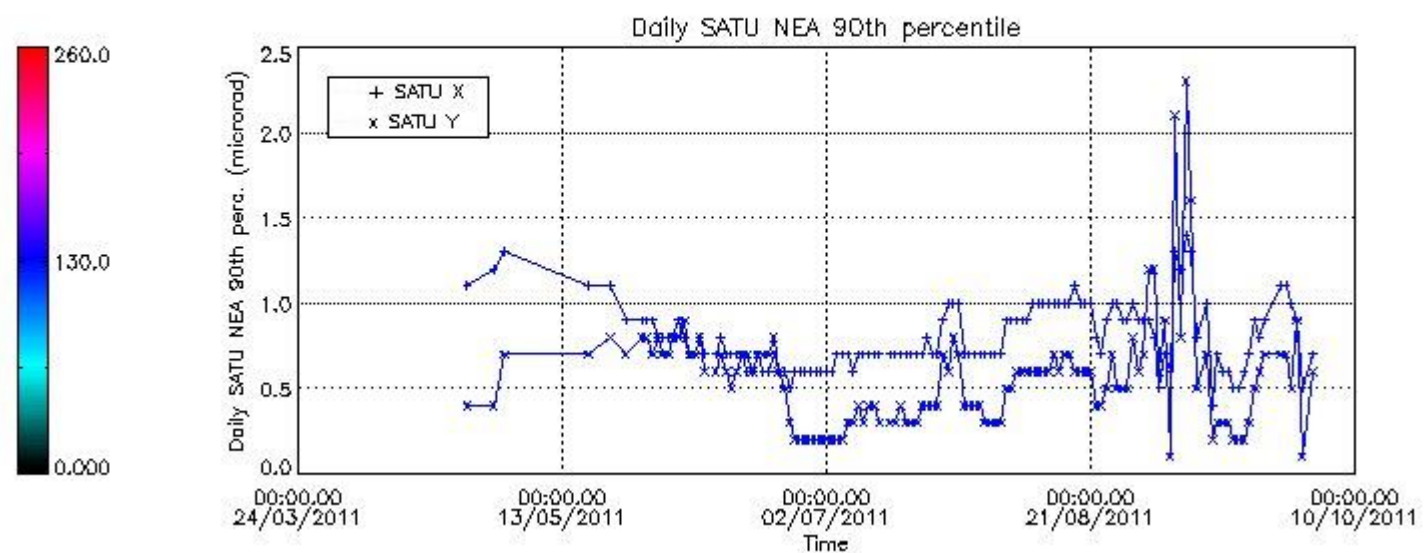
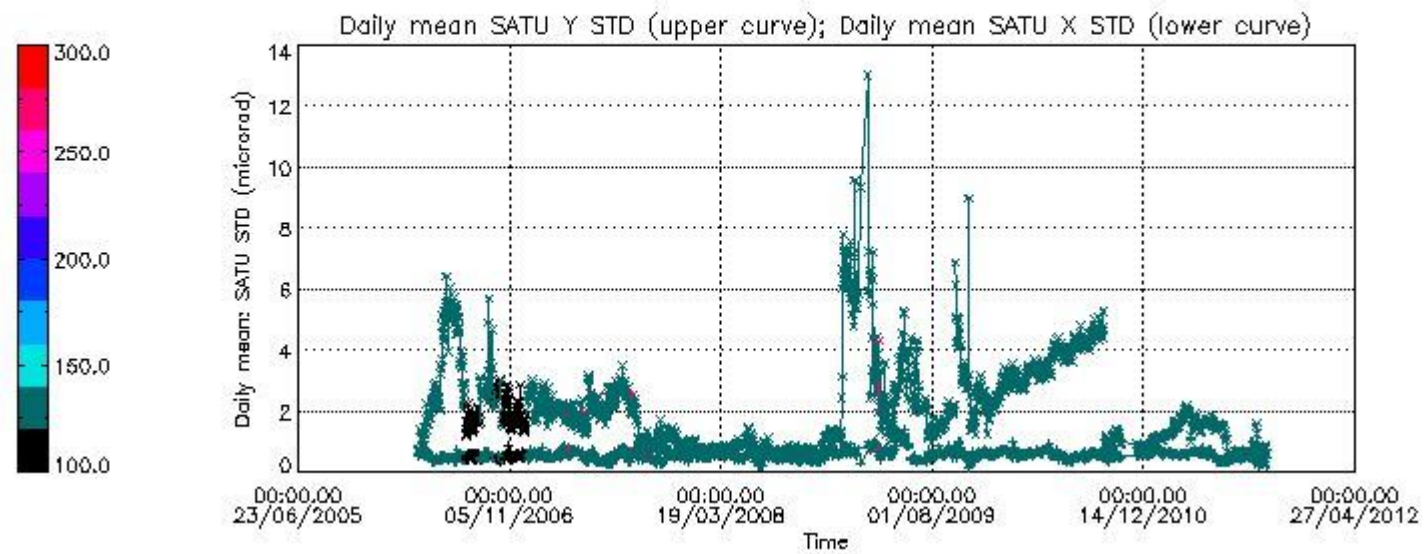
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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

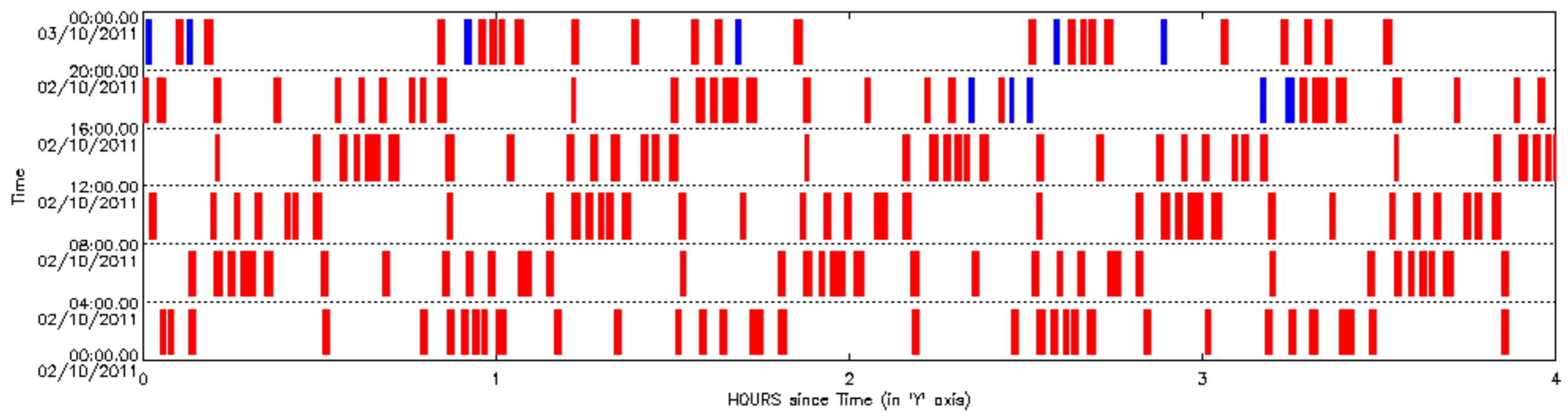
Lower curve: STD of SATU X axis

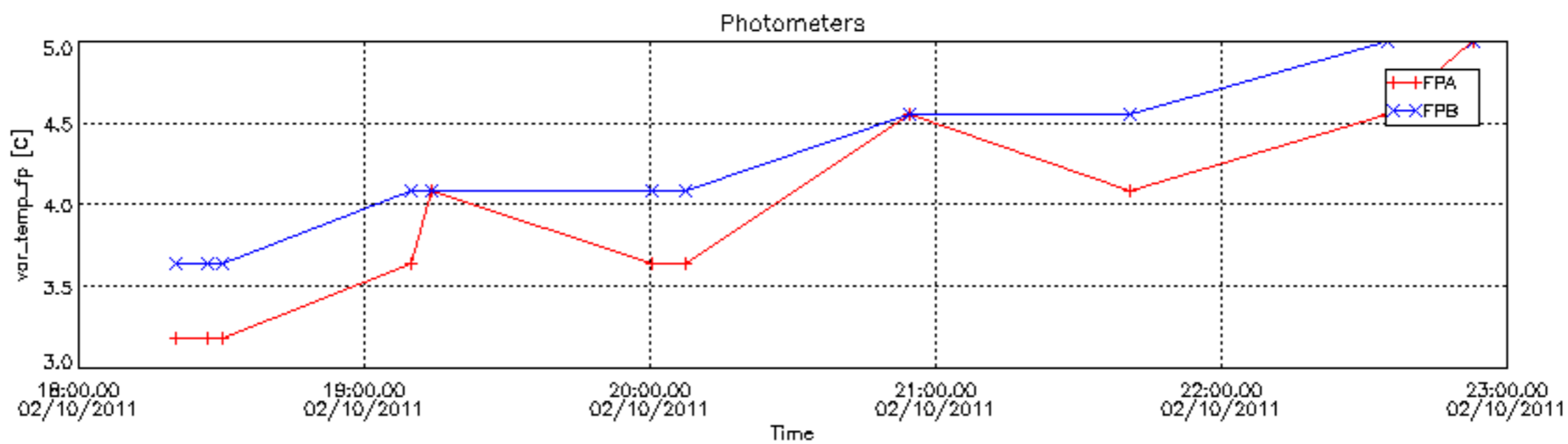
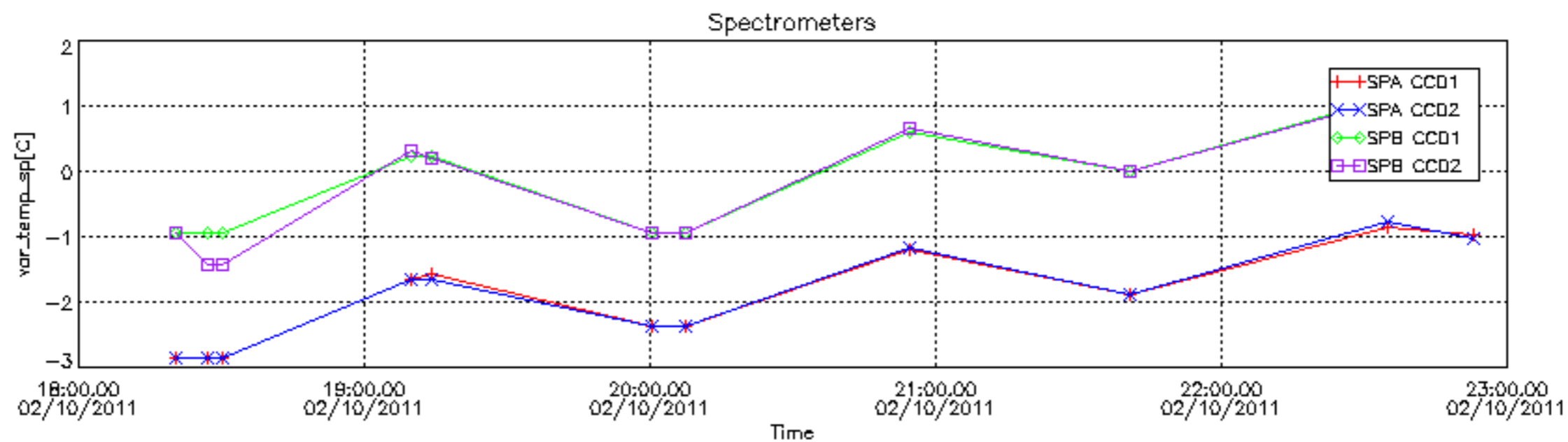


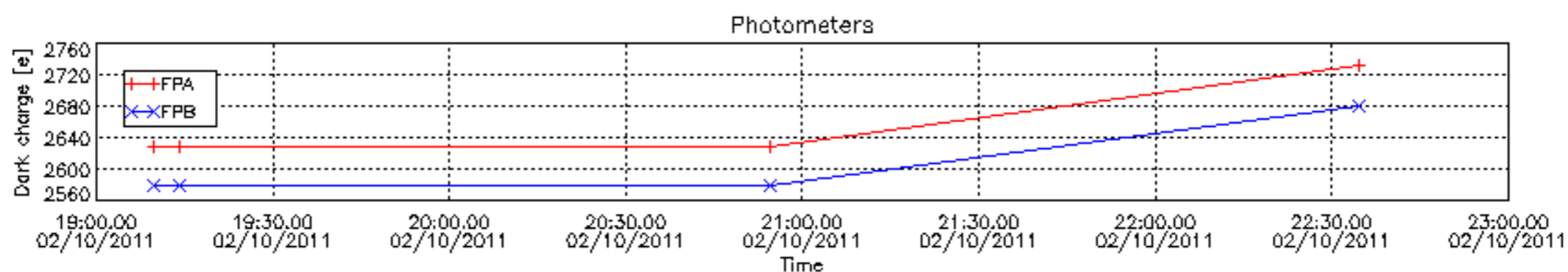
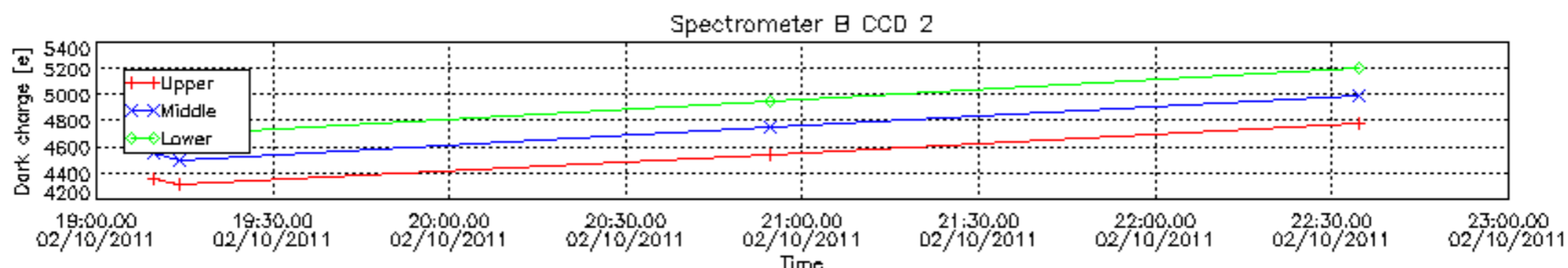
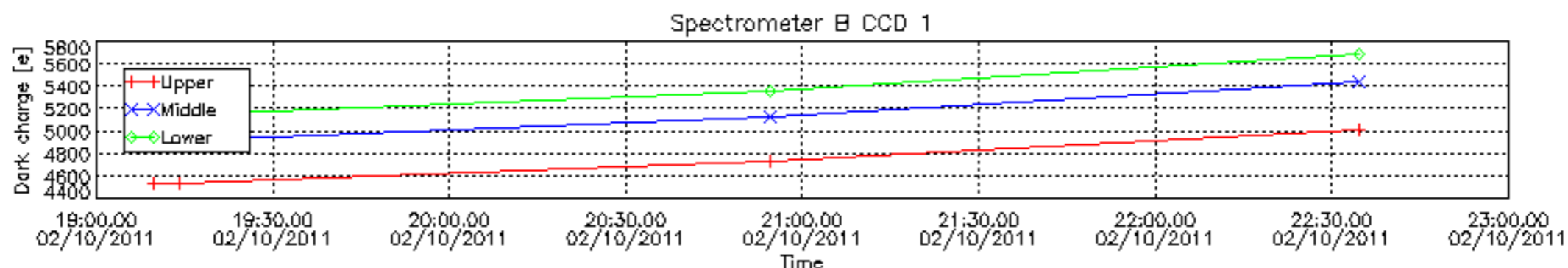
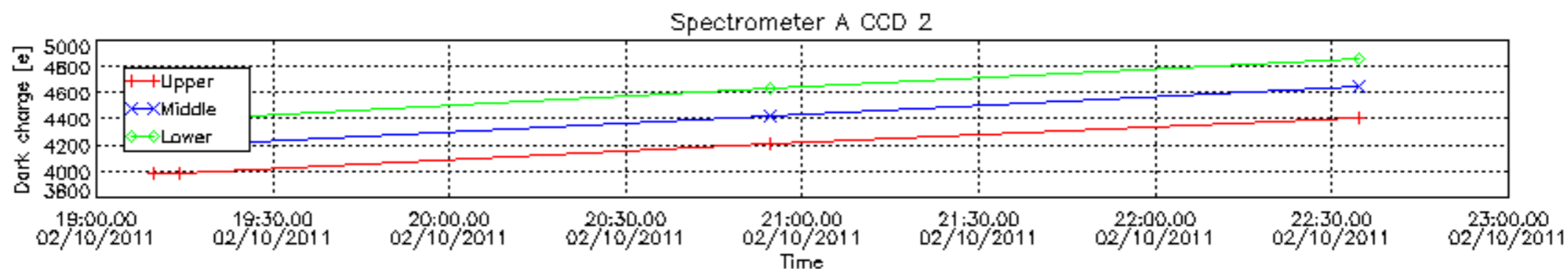
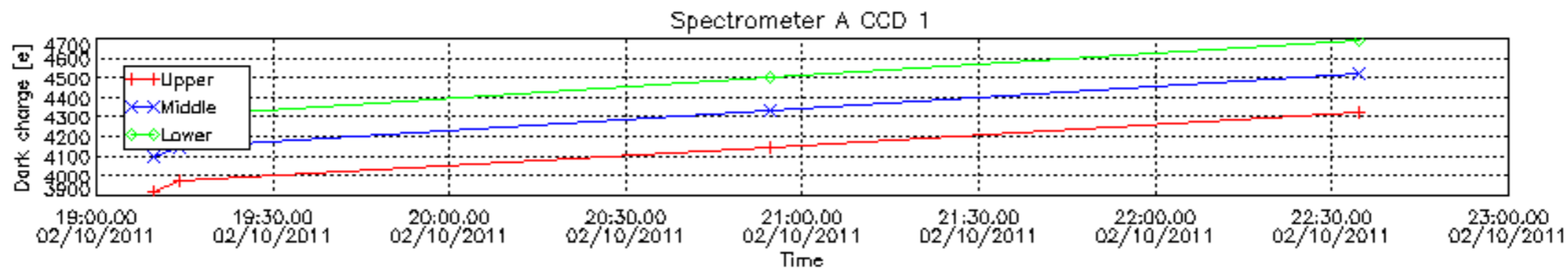
8. Auxiliary Data Files used for the production reported in section 2.4

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.

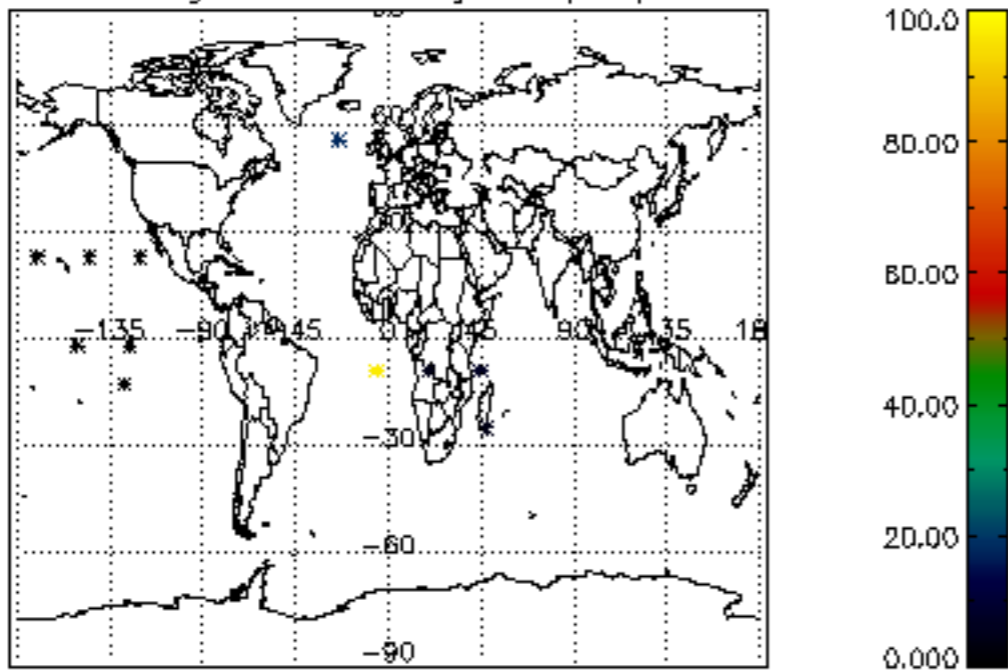
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	02-OCT-2011 18:20:12
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110923_090428_20110920_000000_20500101_000000	1	02-OCT-2011 18:20:12
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	02-OCT-2011 18:20:12
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-OCT-2011 18:20:12
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	02-OCT-2011 18:20:12
ECMWF_FILE	AUX_ECA_AXNECM20111002_181030_20111002_090000_20111002_210000	1	02-OCT-2011 18:20:12
ECMWF_FILE	AUX_ECF_AXNECM20111002_062116_20111002_210000_20111003_090000	9	02-OCT-2011 21:40:39
OPTIONAL_ECMWF_FILE	MISSING	1	02-OCT-2011 18:20:12
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20111001_102114_20110930_185003_20111010_210347	1	02-OCT-2011 18:20:12



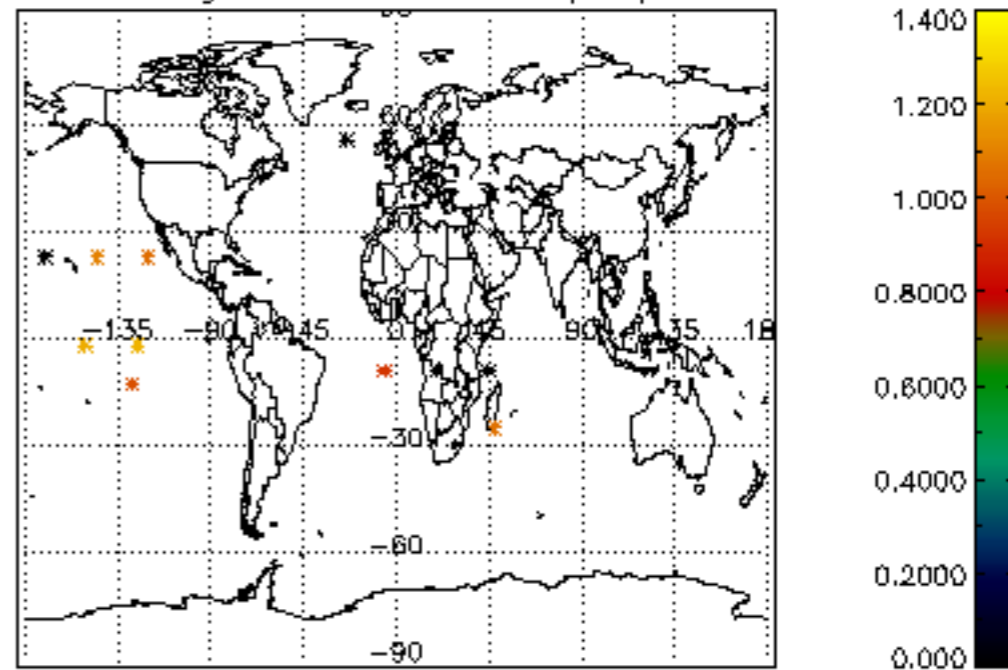




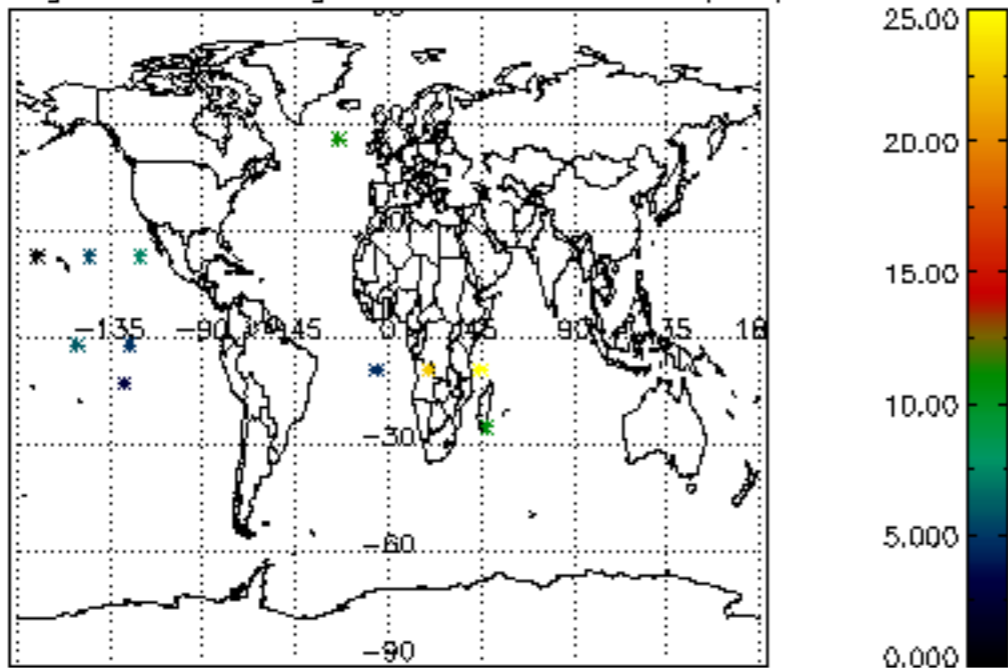
Percentage of cosmic ray hits per profile



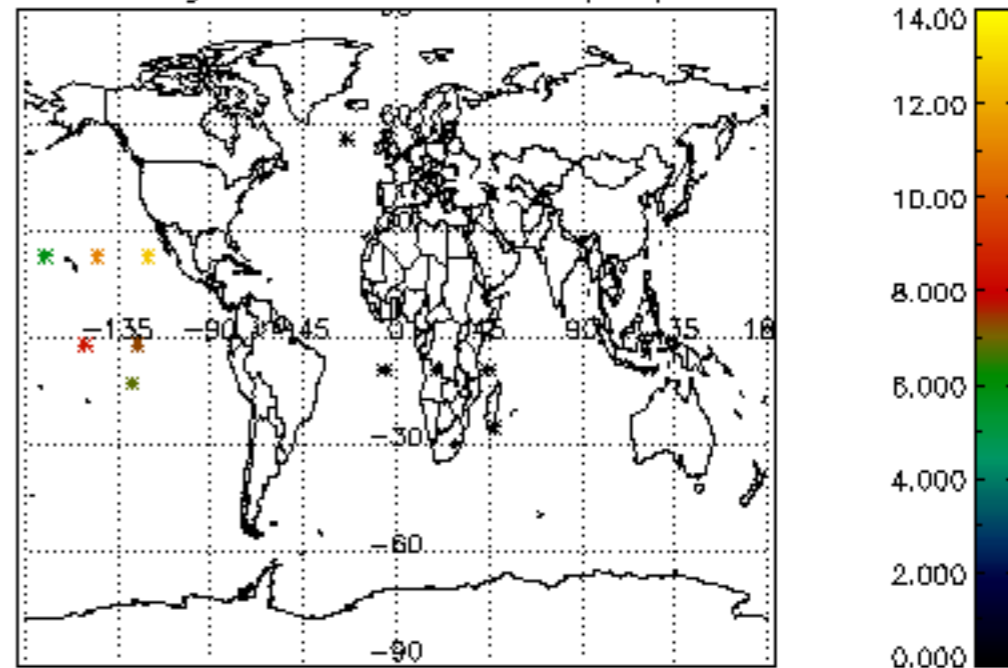
Percentage of datation errors per profile



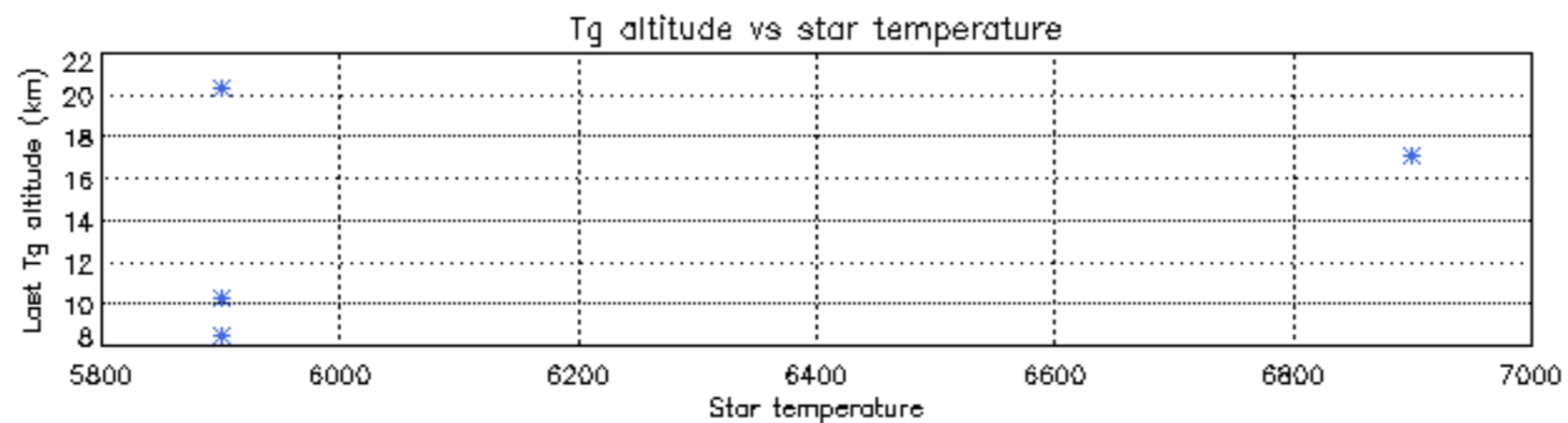
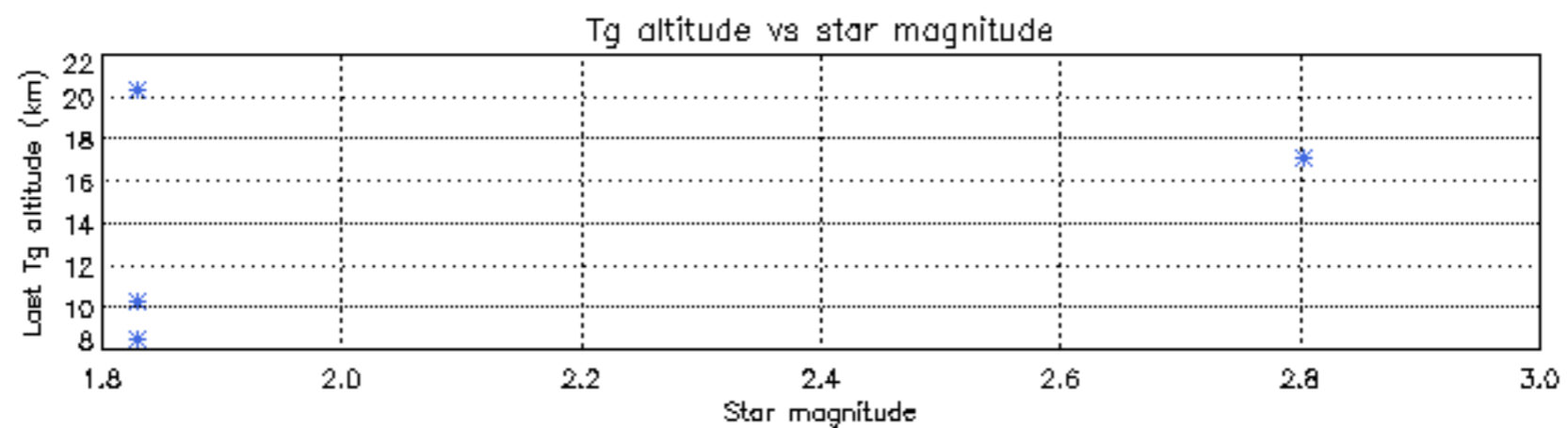
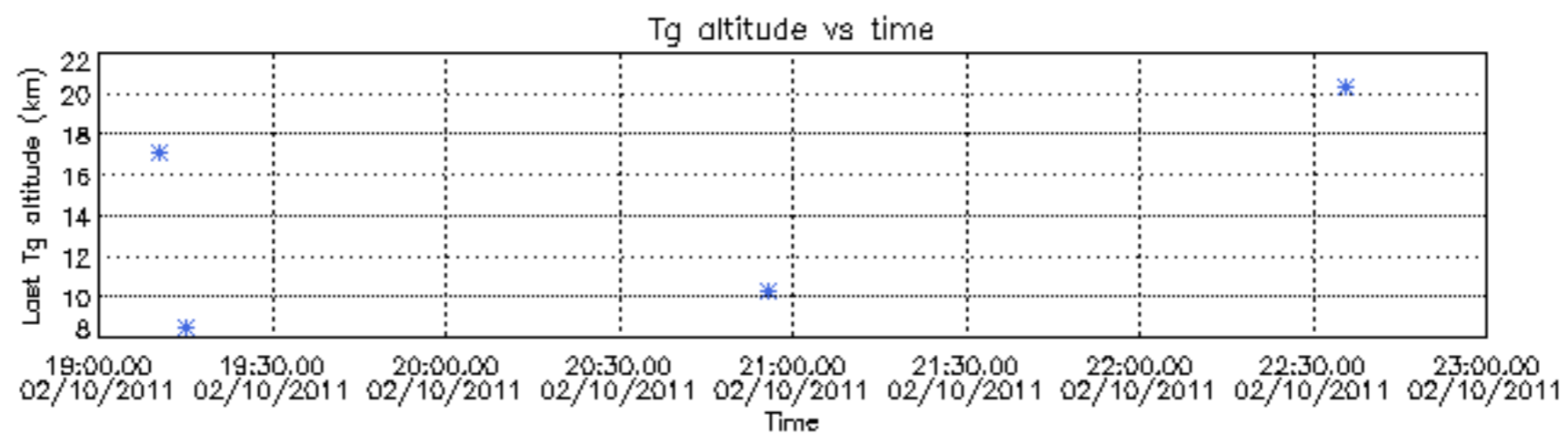
Percentage of star falling outside central band per profile



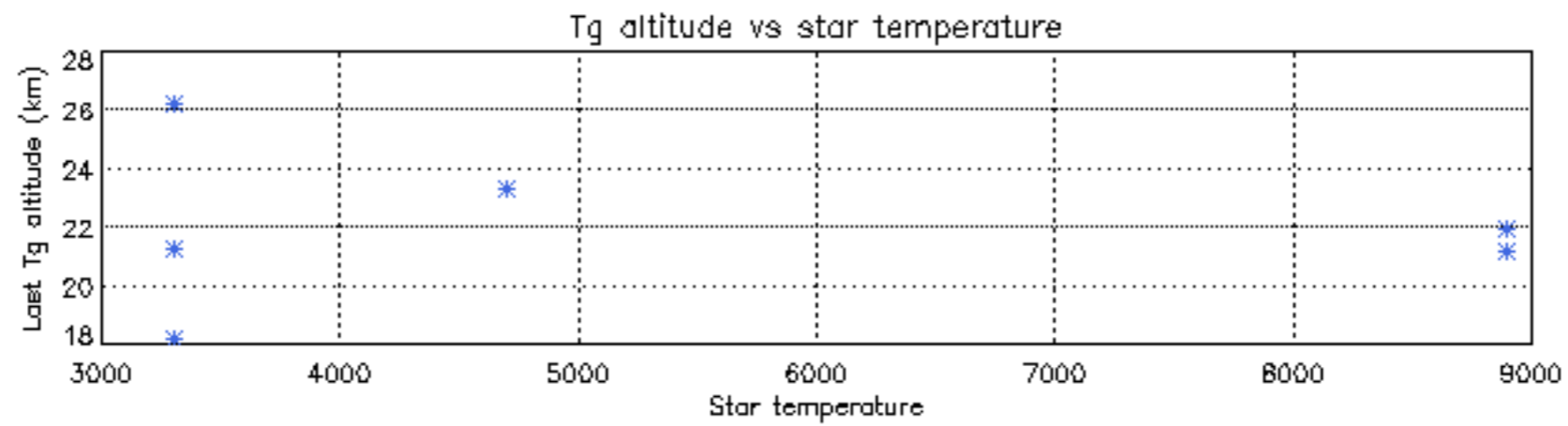
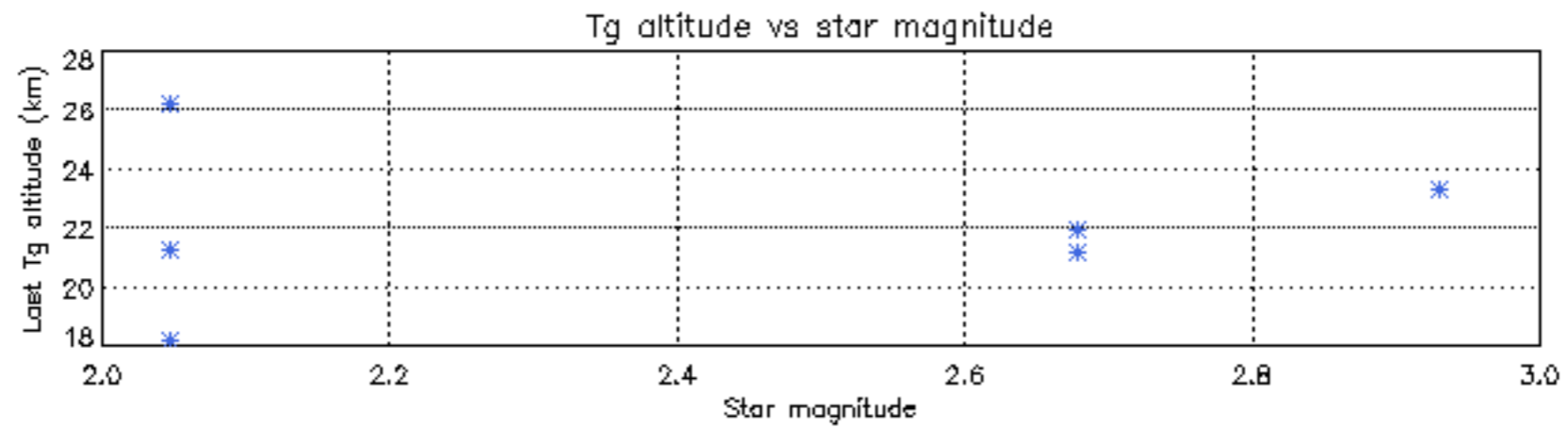
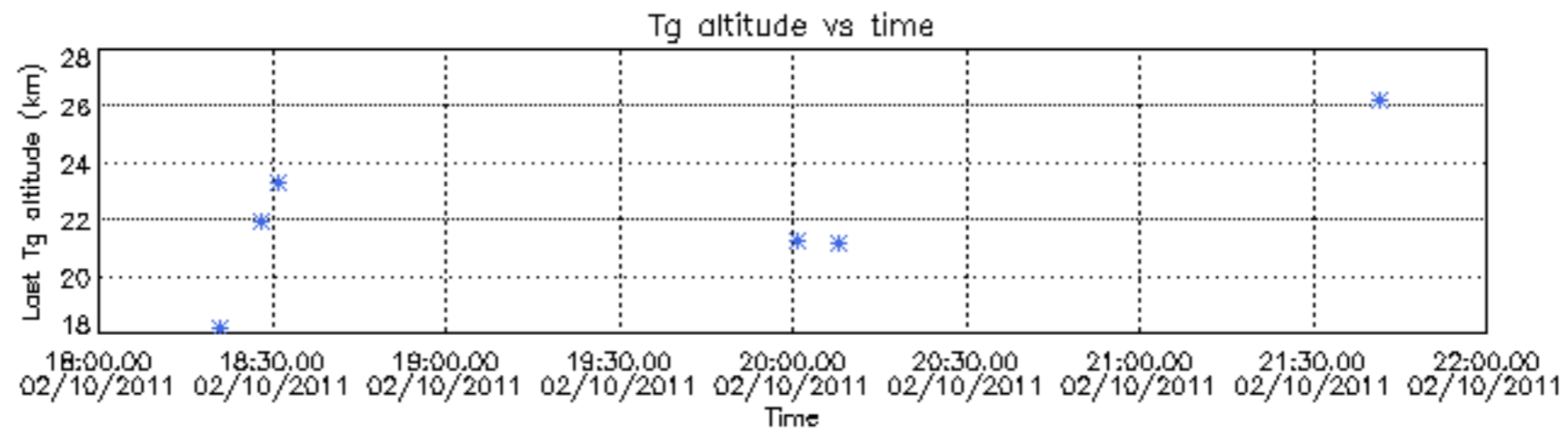
Percentage of saturation errors per profile

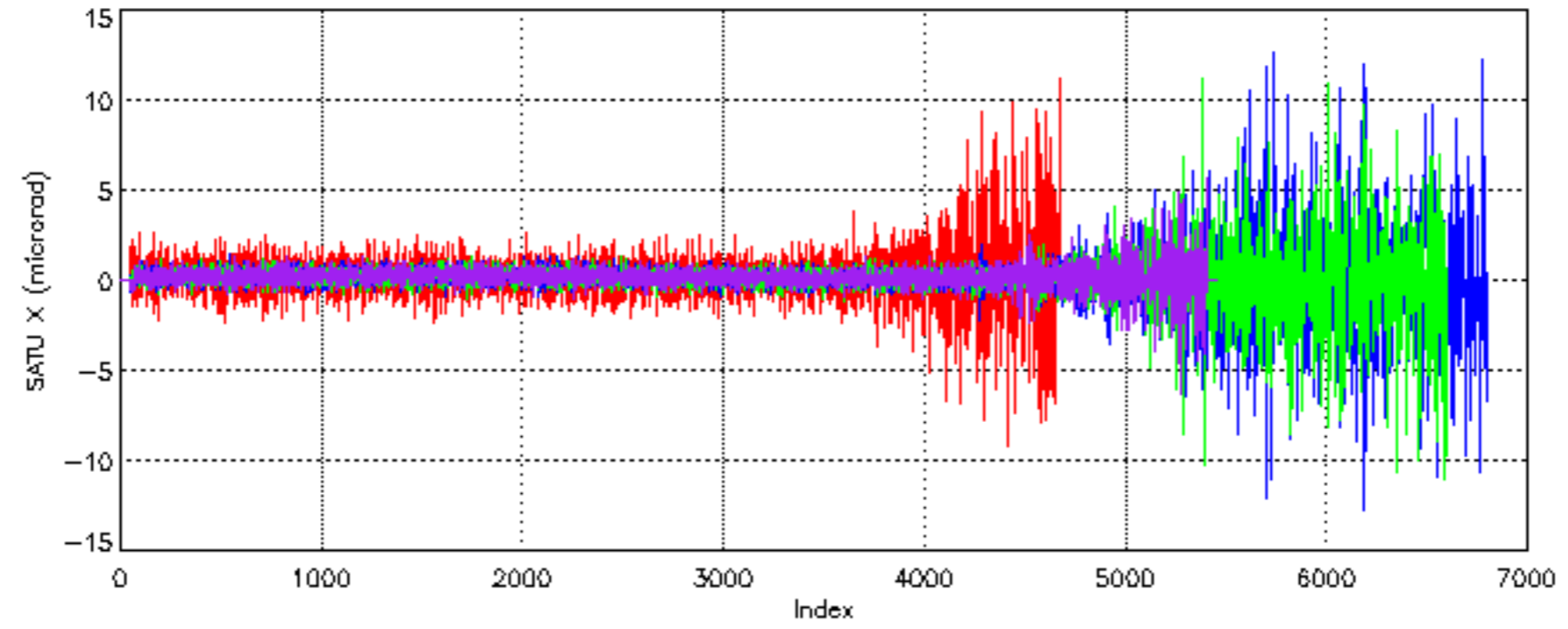


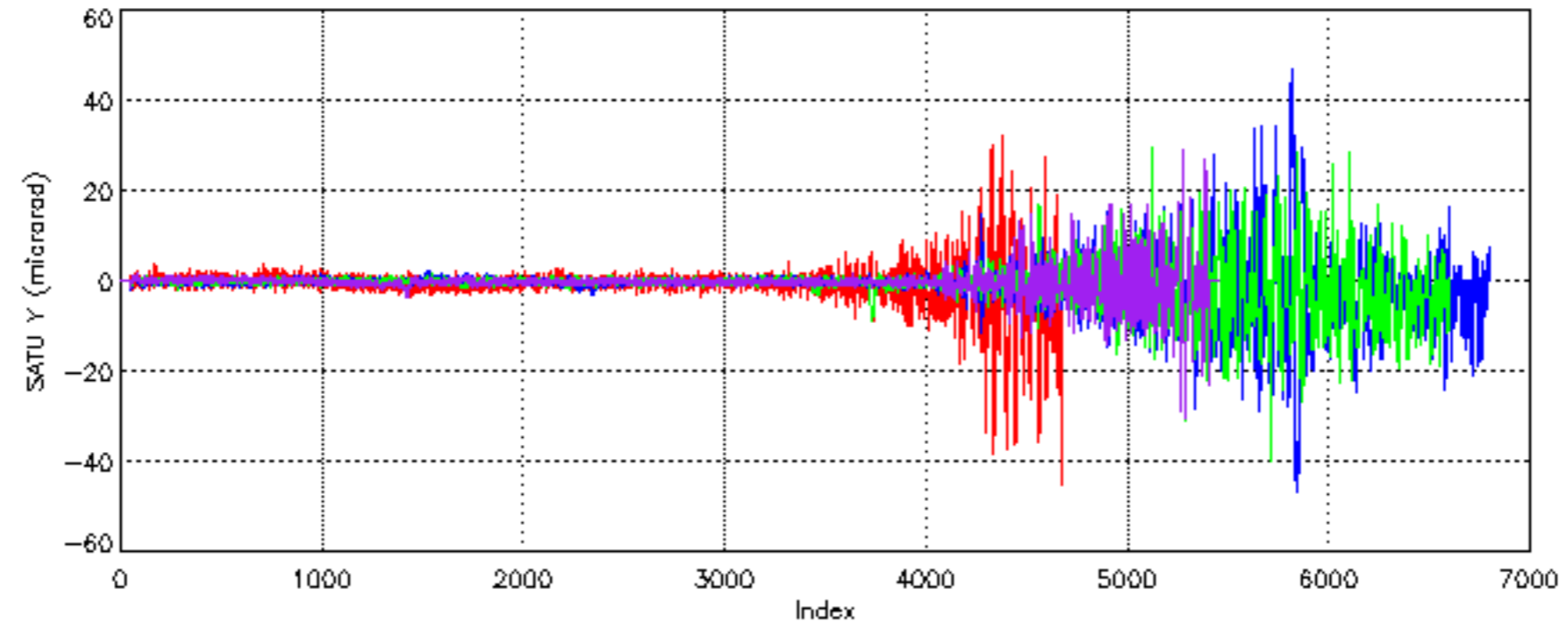
Tangent altitude at which the star is lost

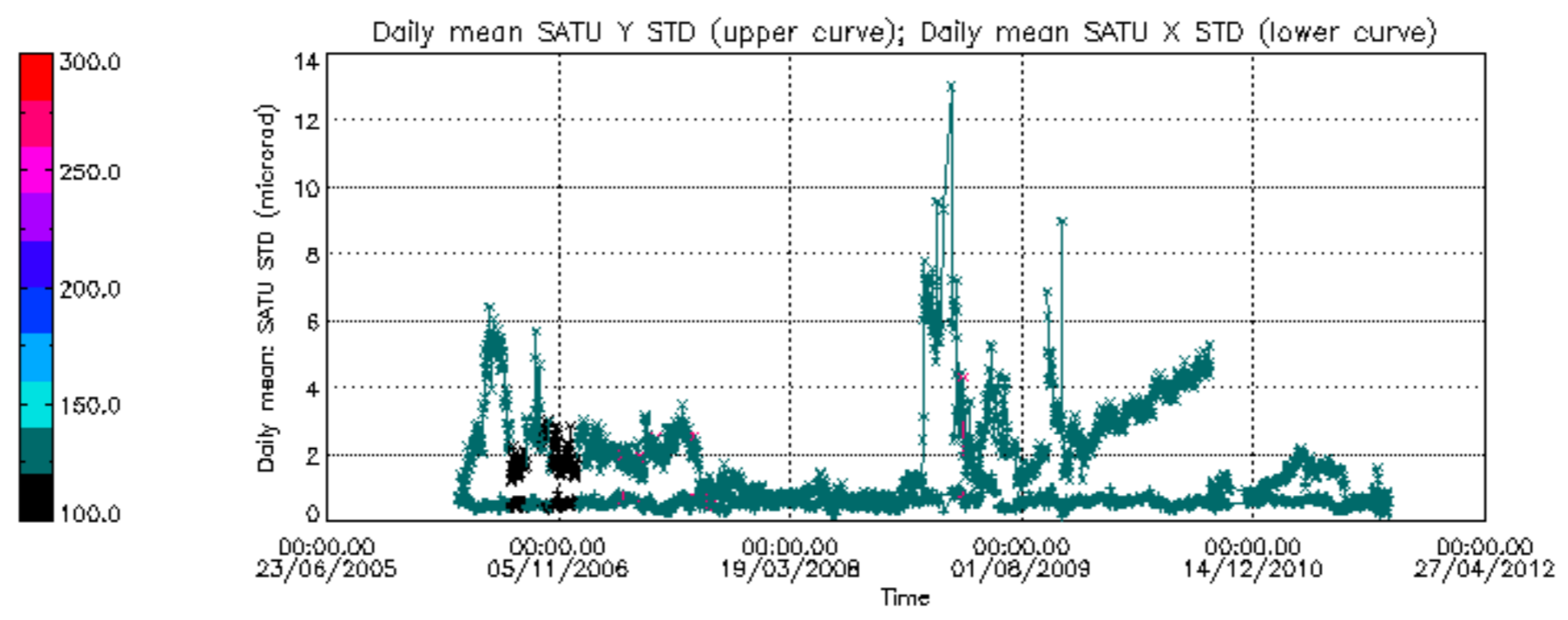


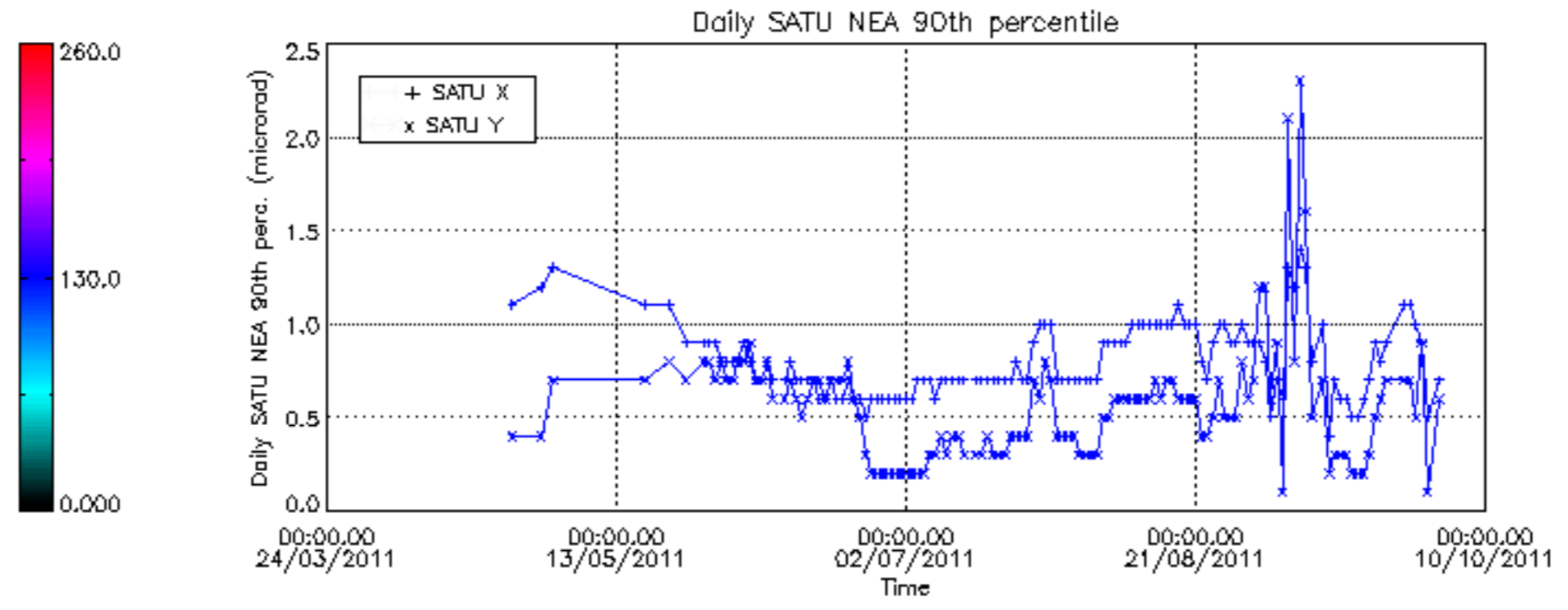
Tangent altitude at which the star is lost











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2; 3035.8; 02-OCT-2011 18:27:09; Bright; 41.0; 110; 37Del Cas ; 2.68; 8900;occ; 82; 0;50156
3; 3212.6; 02-OCT-2011 18:30:06; Bright; 51.0; 160; 23Gam Per ; 2.93; 4700;occ; 102; 0;50156
4; 5594.7; 02-OCT-2011 19:09:48; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;50156
5; 5860.2; 02-OCT-2011 19:14:14; Dark ; 68.0; 37; 25Del CMA ; 1.83; 5900;occ; 136; 0;50156
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2; 3202.2; 03-OCT-2011 12:52:29; Bright; 49.5; 160; 23Gam Per ; 2.93; 4700;occ; 99; 0;50167
3; 5875.1; 03-OCT-2011 13:37:02; Dark ; 66.5; 37; 25Del CMA ; 1.83; 5900;occ; 133; 0;50167
4; 6173.3; 03-OCT-2011 13:42:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;50168
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1; 109.0; 12-OCT-2011 21:32:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;50302
2; 2765.0; 12-OCT-2011 22:16:36; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;50302
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2; 2764.3; 12-OCT-2011 23:56:49; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;50303
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2; 6120.4; 12-OCT-2011 16:31:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;50299
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2; 2763.5; 13-OCT-2011 01:37:02; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;50304
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2; 2762.8; 13-OCT-2011 03:17:16; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;50305
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2; 2762.6; 13-OCT-2011 04:57:29; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;50306
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2; 2758.5; 13-OCT-2011 14:58:49; Bright; 45.0; 73; 57Gam1And ; 2.26; 13100;occ; 90; 0;50312
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2; 2635.6; 14-OCT-2011 21:00:57; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;50330
3; 2747.2; 14-OCT-2011 21:02:49; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;50330
4; 3063.1; 14-OCT-2011 21:08:05; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;50330
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2; 2634.8; 14-OCT-2011 22:41:11; Bright; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;50331
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2; 3070.1; 14-OCT-2011 07:46:20; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;50322
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2; 2637.8; 14-OCT-2011 16:00:18; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;50327
3; 3065.4; 14-OCT-2011 16:07:25; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;50327
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2; 2637.1; 14-OCT-2011 17:40:31; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;50328
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2; 2636.3; 14-OCT-2011 19:20:44; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;50329
3; 3063.8; 14-OCT-2011 19:27:52; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;50329
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2; 2633.3; 15-OCT-2011 02:01:37; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;50333
3; 3060.7; 15-OCT-2011 02:08:44; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;50333
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5; 8646.8; 15-OCT-2011 03:41:50; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;50334
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2; 2631.5; 15-OCT-2011 07:02:17; Bright; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;50336
3; 3058.6; 15-OCT-2011 07:09:24; Bright; 47.0; 160; 23Gam Per ; 2.93; 4700;occ; 94; 0;50336
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2; 2630.8; 15-OCT-2011 08:42:30; Bright; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;50337

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3; 3055.6; 15-OCT-2011 13:50:17; Bright; 47.5; 160; 23Gam Per ; 2.93; 4700;occ; 95; 0;50340
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2; 3055.0; 15-OCT-2011 15:30:30; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;50341
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2; 3053.3; 15-OCT-2011 18:50:57; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;50343
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1; 2621.4; 16-OCT-2011 08:05:37; Bright; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;50351
2; 3047.2; 16-OCT-2011 08:12:42; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;50351
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2; 3046.6; 16-OCT-2011 09:52:56; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;50352
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2; 3045.8; 16-OCT-2011 11:33:09; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;50353
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2; 3044.4; 16-OCT-2011 14:53:35; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;50355
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