

GOMOS Daily Report 30-SEP-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	02OCT2011 07:00:31
Data source version	GOMOS/6.01
Start time of products	30SEP2011 00:42:35
Stop time of products	30SEP2011 11:54:37
Store outputs in DB	Yes
Nb of level 1b prods	10
Nb of prods with errors	0

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

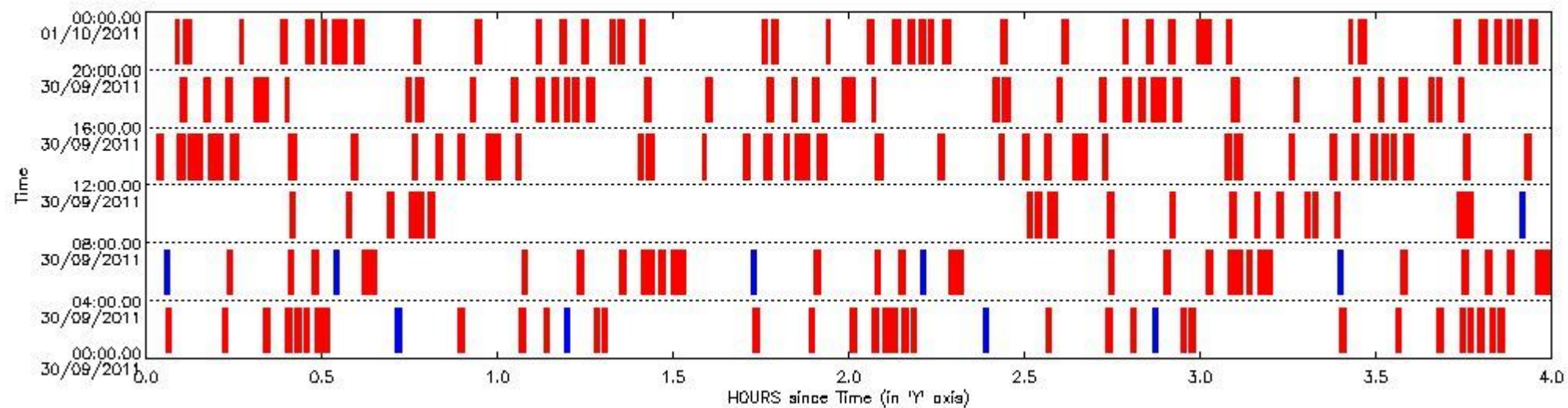
2.1 Level 0 products arrived in PCF (see template [here](#))

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
30-SEP-2011 00:03:23	17EpsLeo	166	50116
30-SEP-2011 00:12:54	30AlpHya	48	50116
30-SEP-2011 00:19:58	15RhoPup	132	50116
30-SEP-2011 00:23:46	ZetPup	70	50116
30-SEP-2011 00:25:27	PiPup	117	50116
30-SEP-2011 00:26:50	DSA1055	0	50116
30-SEP-2011 00:28:52	TauPup	161	50117
30-SEP-2011 00:30:16	AlpCar	2	50117
30-SEP-2011 00:53:18	16BetCet	52	50117
30-SEP-2011 01:03:43	88GamPeg	140	50117
30-SEP-2011 01:07:51	21AlpAnd	58	50117
30-SEP-2011 01:16:26	11BetCas	74	50117
30-SEP-2011 01:17:46	27GamCas	76	50117
30-SEP-2011 01:43:37	17EpsLeo	166	50117
30-SEP-2011 01:53:09	30AlpHya	48	50117

30-SEP-2011 02:00:12	15RhoPup	132	50117
30-SEP-2011 02:04:01	ZetPup	70	50117
30-SEP-2011 02:05:42	PiPup	117	50117
30-SEP-2011 02:07:05	DSA1055	0	50117
30-SEP-2011 02:09:07	TauPup	161	50118
30-SEP-2011 02:10:31	AlpCar	2	50118
30-SEP-2011 02:33:32	16BetCet	52	50118
30-SEP-2011 02:43:57	88GamPeg	140	50118
30-SEP-2011 02:48:05	21AlpAnd	58	50118
30-SEP-2011 02:56:39	11BetCas	74	50118
30-SEP-2011 02:57:59	27GamCas	76	50118
30-SEP-2011 03:23:51	17EpsLeo	166	50118
30-SEP-2011 03:33:23	30AlpHya	48	50118
30-SEP-2011 03:40:27	15RhoPup	132	50118
30-SEP-2011 03:44:15	ZetPup	70	50118
30-SEP-2011 03:45:37	Gam2Vel	34	50118
30-SEP-2011 03:47:20	DSA1055	0	50118
30-SEP-2011 03:49:22	TauPup	161	50119
30-SEP-2011 03:50:46	AlpCar	2	50119
30-SEP-2011 04:13:46	16BetCet	52	50119
30-SEP-2011 04:24:10	88GamPeg	140	50119
30-SEP-2011 04:28:19	21AlpAnd	58	50119
30-SEP-2011 04:36:53	11BetCas	74	50119
30-SEP-2011 04:38:13	27GamCas	76	50119
30-SEP-2011 05:04:05	17EpsLeo	166	50119
30-SEP-2011 05:13:37	30AlpHya	48	50119
30-SEP-2011 05:20:42	15RhoPup	132	50119
30-SEP-2011 05:24:30	ZetPup	70	50119
30-SEP-2011 05:25:51	Gam2Vel	34	50119
30-SEP-2011 05:27:34	DSA1055	0	50119
30-SEP-2011 05:29:36	TauPup	161	50120
30-SEP-2011 05:31:00	AlpCar	2	50120
30-SEP-2011 05:54:00	16BetCet	52	50120
30-SEP-2011 06:04:24	88GamPeg	140	50120
30-SEP-2011 06:08:32	21AlpAnd	58	50120
30-SEP-2011 06:17:07	11BetCas	74	50120
30-SEP-2011 06:18:26	27GamCas	76	50120
30-SEP-2011 06:44:19	17EpsLeo	166	50120
30-SEP-2011 06:53:52	30AlpHya	48	50120
30-SEP-2011 07:00:57	15RhoPup	132	50120
30-SEP-2011 07:04:45	ZetPup	70	50120
30-SEP-2011 07:06:06	Gam2Vel	34	50120
30-SEP-2011 07:07:49	DSA1055	0	50120
30-SEP-2011 07:09:51	TauPup	161	50121
30-SEP-2011 07:11:15	AlpCar	2	50121
30-SEP-2011 07:34:14	16BetCet	52	50121
30-SEP-2011 07:44:38	88GamPeg	140	50121
30-SEP-2011 07:48:46	21AlpAnd	58	50121
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30-SEP-2011 07:58:40	27GamCas	76	50121
30-SEP-2011 08:24:33	17EpsLeo	166	50121
30-SEP-2011 08:34:06	30AlpHya	48	50121
30-SEP-2011 08:41:12	15RhoPup	132	50121
30-SEP-2011 08:44:59	ZetPup	70	50121
30-SEP-2011 08:46:20	Gam2Vel	34	50121
30-SEP-2011 08:48:04	DSA1055	0	50121
30-SEP-2011 10:30:21	TauPup	161	50123
30-SEP-2011 10:31:45	AlpCar	2	50123

30-SEP-2011 10:34:02	AlpCol	108	50123
30-SEP-2011 10:44:06	The1Eri	157	50123
30-SEP-2011 10:54:42	16BetCet	52	50123
30-SEP-2011 11:05:05	88GamPeg	140	50123
30-SEP-2011 11:09:13	21AlpAnd	58	50123
30-SEP-2011 11:12:54	43BetAnd	53	50123
30-SEP-2011 11:17:48	11BetCas	74	50123
30-SEP-2011 11:19:07	27GamCas	76	50123
30-SEP-2011 11:22:59	23GamPer	160	50123
30-SEP-2011 11:43:43	66AlpGem	24	50123
30-SEP-2011 11:45:13	78BetGem	17	50123
30-SEP-2011 12:01:41	15RhoPup	132	50123
30-SEP-2011 12:05:19	31EtaCMa	88	50123
30-SEP-2011 12:07:11	PiPup	117	50123
30-SEP-2011 12:08:33	DSA1055	0	50123
30-SEP-2011 12:10:35	TauPup	161	50124
30-SEP-2011 12:11:59	AlpCar	2	50124
30-SEP-2011 12:14:18	AlpCol	108	50124
30-SEP-2011 12:24:20	The1Eri	157	50124
30-SEP-2011 12:34:56	16BetCet	52	50124
30-SEP-2011 12:45:19	88GamPeg	140	50124
30-SEP-2011 12:49:27	21AlpAnd	58	50124
30-SEP-2011 12:53:08	43BetAnd	53	50124
30-SEP-2011 12:58:02	11BetCas	74	50124
30-SEP-2011 12:59:21	27GamCas	76	50124
30-SEP-2011 13:03:12	23GamPer	160	50124
30-SEP-2011 13:23:58	66AlpGem	24	50124
30-SEP-2011 13:25:27	78BetGem	17	50124
30-SEP-2011 13:34:54	10AlpCMi	8	50124
30-SEP-2011 13:41:56	15RhoPup	132	50124
30-SEP-2011 13:45:34	31EtaCMa	88	50124
30-SEP-2011 13:48:48	DSA1055	0	50124
30-SEP-2011 13:50:50	TauPup	161	50125
30-SEP-2011 13:52:14	AlpCar	2	50125
30-SEP-2011 13:54:33	AlpCol	108	50125
30-SEP-2011 14:04:35	The1Eri	157	50125
30-SEP-2011 14:15:10	16BetCet	52	50125
30-SEP-2011 14:25:33	88GamPeg	140	50125
30-SEP-2011 14:29:41	21AlpAnd	58	50125
30-SEP-2011 14:33:21	43BetAnd	53	50125
30-SEP-2011 14:38:15	11BetCas	74	50125
30-SEP-2011 14:39:34	27GamCas	76	50125
30-SEP-2011 14:43:25	23GamPer	160	50125
30-SEP-2011 15:04:12	66AlpGem	24	50125
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30-SEP-2011 15:15:09	10AlpCMi	8	50125
30-SEP-2011 15:22:11	15RhoPup	132	50125
30-SEP-2011 15:25:49	31EtaCMa	88	50125
30-SEP-2011 15:29:03	DSA1055	0	50125
30-SEP-2011 15:31:05	TauPup	161	50126
30-SEP-2011 15:32:29	AlpCar	2	50126
30-SEP-2011 15:34:48	AlpCol	108	50126
30-SEP-2011 15:44:50	The1Eri	157	50126
30-SEP-2011 15:55:25	16BetCet	52	50126
30-SEP-2011 16:05:47	88GamPeg	140	50126
30-SEP-2011 16:09:54	21AlpAnd	58	50126
30-SEP-2011 16:13:34	43BetAnd	53	50126
30-SEP-2011 16:18:29	11BetCas	74	50126
30-SEP-2011 16:19:48	27GamCas	76	50126

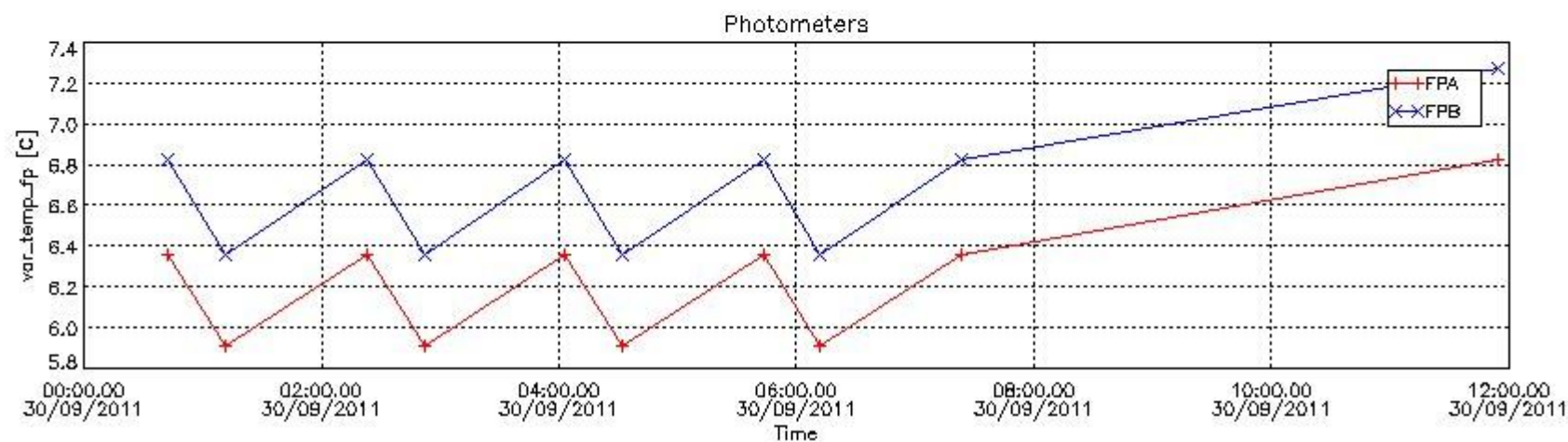
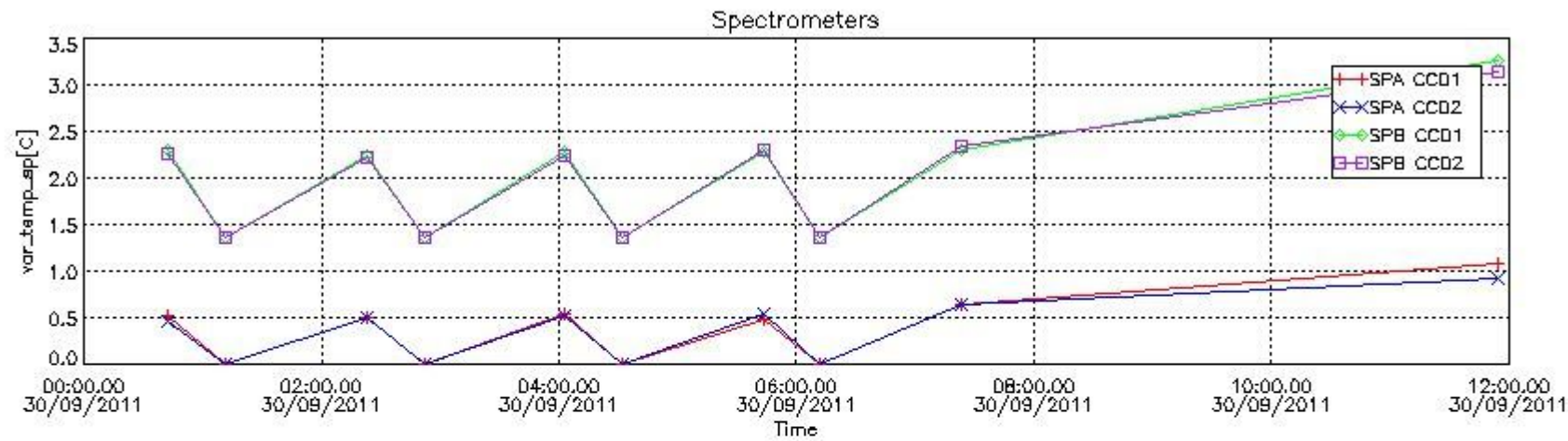
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30-SEP-2011 16:44:26	66AlpGem	24	50126
30-SEP-2011 16:45:56	78BetGem	17	50126
30-SEP-2011 16:55:24	10AlpCMi	8	50126
30-SEP-2011 17:02:25	15RhoPup	132	50126
30-SEP-2011 17:06:37	25DelCMa	37	50126
30-SEP-2011 17:09:17	DSA1055	0	50126
30-SEP-2011 17:11:19	TauPup	161	50127
30-SEP-2011 17:12:43	AlpCar	2	50127
30-SEP-2011 17:15:04	AlpCol	108	50127
30-SEP-2011 17:25:04	The1Eri	157	50127
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30-SEP-2011 17:46:00	88GamPeg	140	50127
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30-SEP-2011 17:53:47	43BetAnd	53	50127
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30-SEP-2011 18:46:53	25DelCMa	37	50127
30-SEP-2011 18:49:32	DSA1055	0	50127
30-SEP-2011 18:51:34	TauPup	161	50128
30-SEP-2011 18:52:58	AlpCar	2	50128
30-SEP-2011 18:55:19	AlpCol	108	50128
30-SEP-2011 19:05:19	The1Eri	157	50128
30-SEP-2011 19:15:53	16BetCet	52	50128
30-SEP-2011 19:26:14	88GamPeg	140	50128
30-SEP-2011 19:30:22	21AlpAnd	58	50128
30-SEP-2011 19:34:01	43BetAnd	53	50128
30-SEP-2011 19:38:56	11BetCas	74	50128
30-SEP-2011 19:40:15	27GamCas	76	50128
30-SEP-2011 19:44:04	23GamPer	160	50128
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30-SEP-2011 20:06:24	78BetGem	17	50128
30-SEP-2011 20:15:54	10AlpCMi	8	50128
30-SEP-2011 20:22:55	15RhoPup	132	50128
30-SEP-2011 20:27:08	25DelCMa	37	50128
30-SEP-2011 20:29:47	DSA1055	0	50128
30-SEP-2011 20:31:49	TauPup	161	50129
30-SEP-2011 20:33:13	AlpCar	2	50129
30-SEP-2011 20:35:35	AlpCol	108	50129
30-SEP-2011 20:45:34	The1Eri	157	50129
30-SEP-2011 20:56:07	16BetCet	52	50129
30-SEP-2011 21:06:28	88GamPeg	140	50129
30-SEP-2011 21:10:36	21AlpAnd	58	50129
30-SEP-2011 21:14:14	43BetAnd	53	50129
30-SEP-2011 21:19:10	11BetCas	74	50129
30-SEP-2011 21:20:28	27GamCas	76	50129
30-SEP-2011 21:24:17	23GamPer	160	50129
30-SEP-2011 21:45:08	66AlpGem	24	50129
30-SEP-2011 21:46:38	78BetGem	17	50129
30-SEP-2011 21:56:09	10AlpCMi	8	50129
30-SEP-2011 22:03:10	15RhoPup	132	50129
30-SEP-2011 22:07:23	25DelCMa	37	50129
30-SEP-2011 22:10:01	DSA1055	0	50129
30-SEP-2011 22:12:03	TauPup	161	50130

30-SEP-2011 22:13:28	AlpCar	2	50130
30-SEP-2011 22:15:50	AlpCol	108	50130
30-SEP-2011 22:25:48	The1Eri	157	50130
30-SEP-2011 22:36:21	16BetCet	52	50130
30-SEP-2011 22:46:42	88GamPeg	140	50130
30-SEP-2011 22:50:49	21AlpAnd	58	50130
30-SEP-2011 22:54:27	43BetAnd	53	50130
30-SEP-2011 22:59:24	11BetCas	74	50130
30-SEP-2011 23:00:42	27GamCas	76	50130
30-SEP-2011 23:04:30	23GamPer	160	50130
30-SEP-2011 23:25:22	66AlpGem	24	50130
30-SEP-2011 23:26:52	78BetGem	17	50130
30-SEP-2011 23:43:25	15RhoPup	132	50130
30-SEP-2011 23:47:38	25DelCma	37	50130
30-SEP-2011 23:50:16	DSA1055	0	50130
30-SEP-2011 23:52:18	TauPup	161	50131
30-SEP-2011 23:53:42	AlpCar	2	50131
30-SEP-2011 23:56:06	AlpCol	108	50131

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_1PNPDE20110930_004235_000000513107_00103_50117_2695.N1	30-SEP-2011 00:42:35	Straylight	50.500	157	The1Eri	2.9060	9300.0	101	50117	No
2	GOM_TRA_1PNPDE20110930_011132_000000493107_00103_50117_2696.N1	30-SEP-2011 01:11:32	Bright	49.000	53	43Bet And	2.0480	3300.0	98	50117	No
3	GOM_TRA_1PNPDE20110930_022250_000000503107_00104_50118_2709.N1	30-SEP-2011 02:22:50	Straylight	49.500	157	The1Eri	2.9060	9300.0	99	50118	No
4	GOM_TRA_1PNPDE20110930_025145_000000493107_00104_50118_2710.N1	30-SEP-2011 02:51:45	Bright	48.500	53	43Bet And	2.0480	3300.0	97	50118	No
5	GOM_TRA_1PNPDE20110930_040305_000000513107_00105_50119_2760.N1	30-SEP-2011 04:03:05	Straylight	51.000	157	The1Eri	2.9060	9300.0	102	50119	No
6	GOM_TRA_1PNPDE20110930_043159_000000493107_00105_50119_2761.N1	30-SEP-2011 04:31:59	Bright	49.000	53	43Bet And	2.0480	3300.0	98	50119	No
7	GOM_TRA_1PNPDE20110930_054320_000000503107_00106_50120_2808.N1	30-SEP-2011 05:43:20	Straylight	50.000	157	The1Eri	2.9060	9300.0	100	50120	No
8	GOM_TRA_1PNPDE20110930_061212_000000463107_00106_50120_2809.N1	30-SEP-2011 06:12:12	Bright	45.500	53	43Bet And	2.0480	3300.0	91	50120	No
9	GOM_TRA_1PNPDK20110930_072334_000000503107_00107_50121_1517.N1	30-SEP-2011 07:23:34	Straylight	49.500	157	The1Eri	2.9060	9300.0	99	50121	No
10	GOM_TRA_1PNPDK20110930_115437_000000533107_00109_50123_1628.N1	30-SEP-2011 11:54:37	Dark	52.500	8	10Alp CMi	0.40000	6500.0	105	50123	No

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



4. Overview of dark signal processing per product

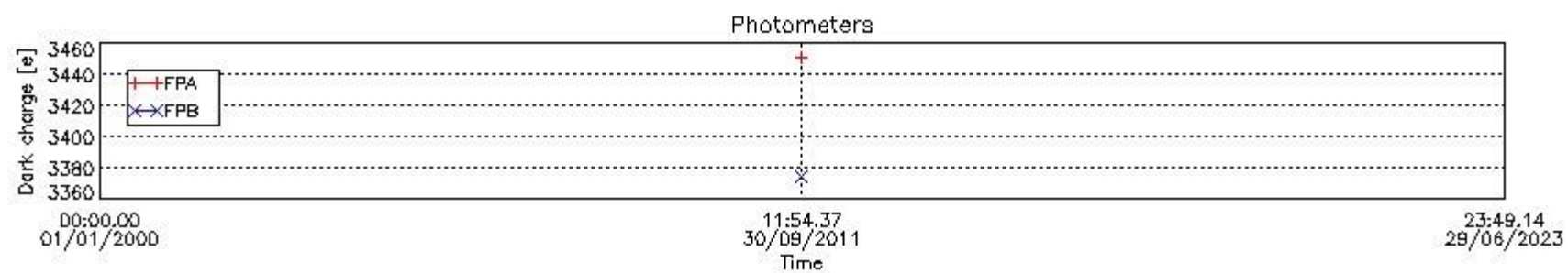
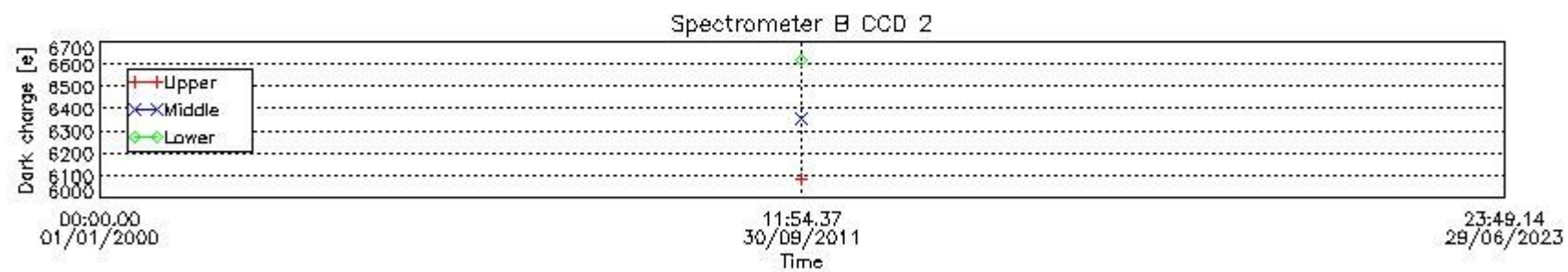
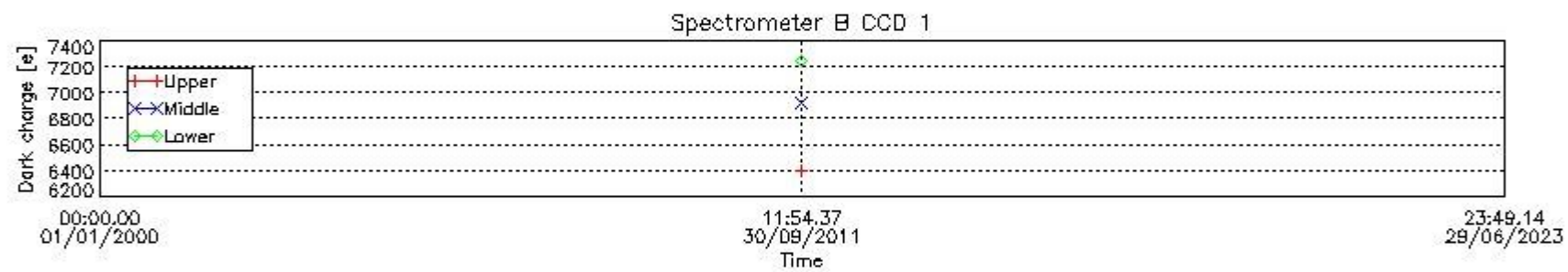
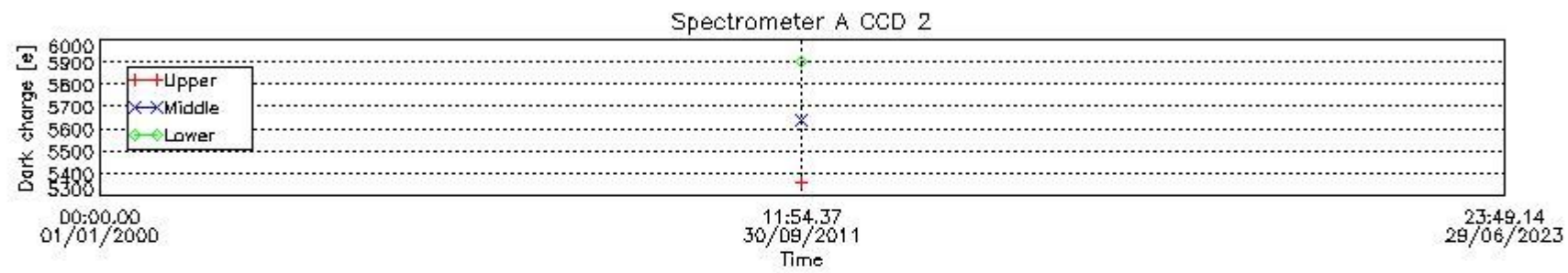
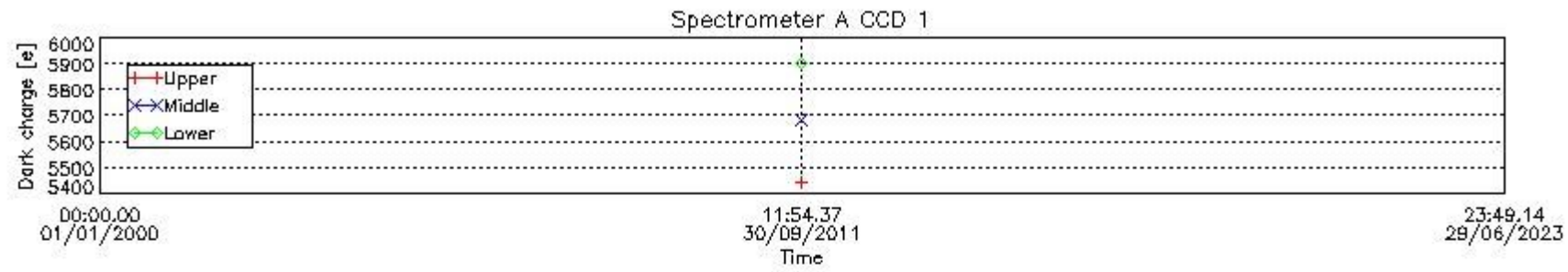
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20110930_004235_000000513107_00103_50117_2695.N1	DC map used
GOM_TRA_1PNPDE20110930_011132_000000493107_00103_50117_2696.N1	DC map used
GOM_TRA_1PNPDE20110930_022250_000000503107_00104_50118_2709.N1	DC map used
GOM_TRA_1PNPDE20110930_025145_000000493107_00104_50118_2710.N1	DC map used
GOM_TRA_1PNPDE20110930_040305_000000513107_00105_50119_2760.N1	DC map used
GOM_TRA_1PNPDE20110930_043159_000000493107_00105_50119_2761.N1	DC map used
GOM_TRA_1PNPDE20110930_054320_000000503107_00106_50120_2808.N1	DC map used
GOM_TRA_1PNPDE20110930_061212_000000463107_00106_50120_2809.N1	DC map used
GOM_TRA_1PNPDK20110930_072334_000000503107_00107_50121_1517.N1	DC map used
GOM_TRA_1PNPDK20110930_115437_000000533107_00109_50123_1628.N1	DC map used

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



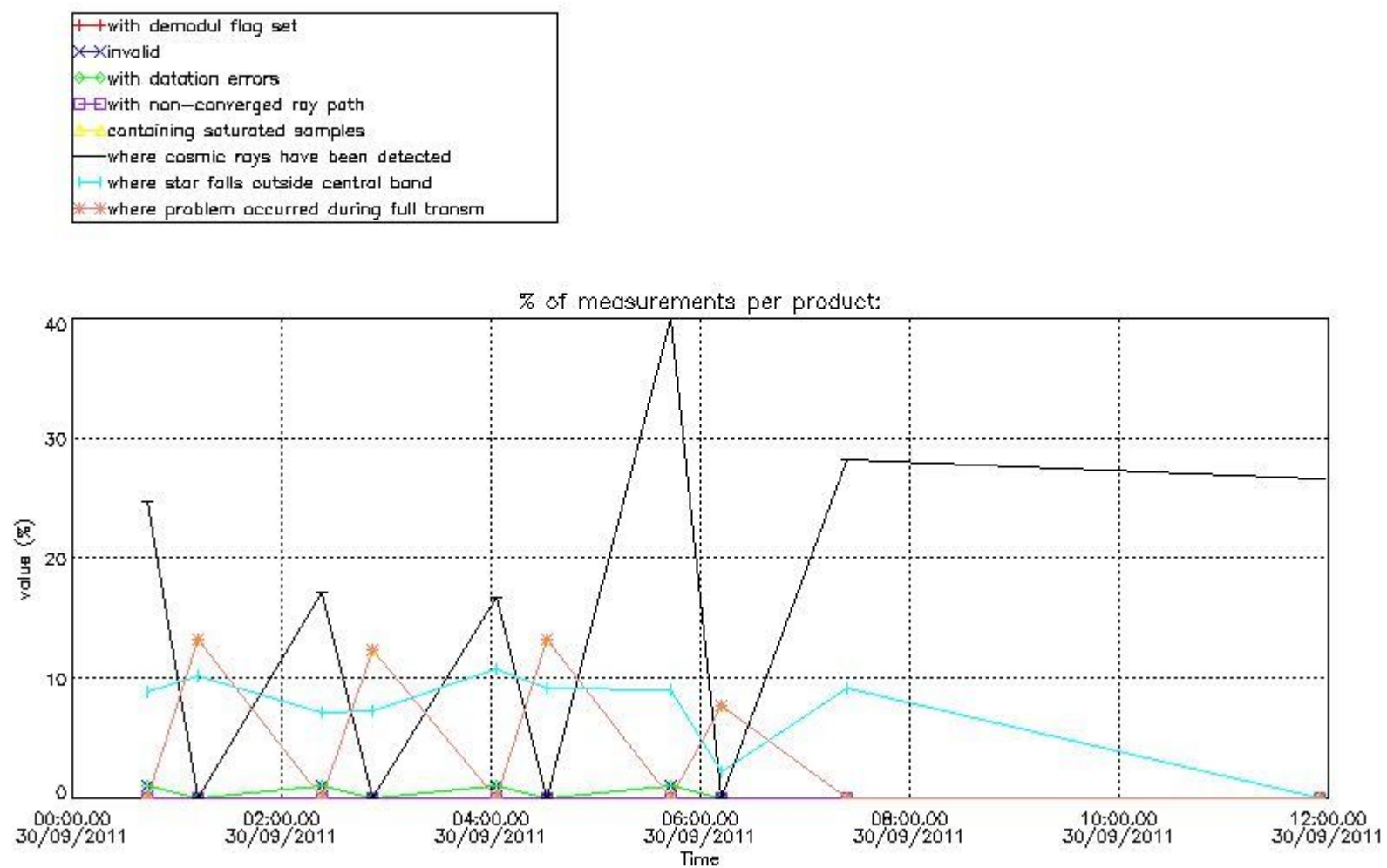
5. Demodulation flag and quality information monitoring

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.

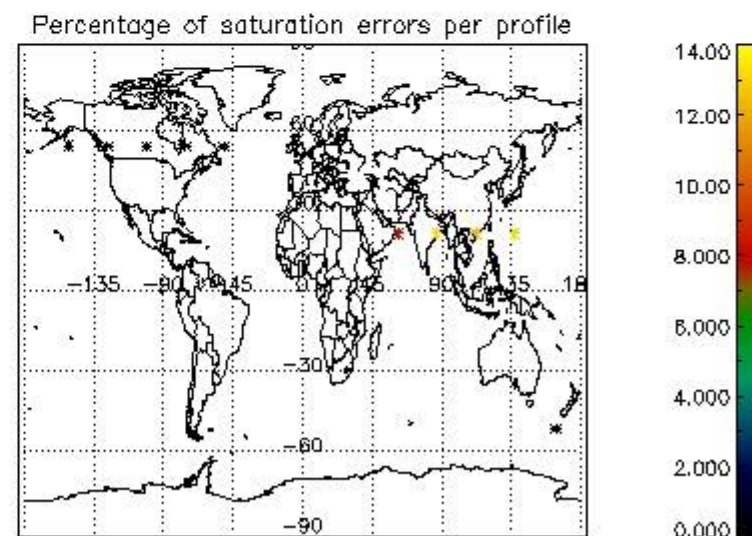
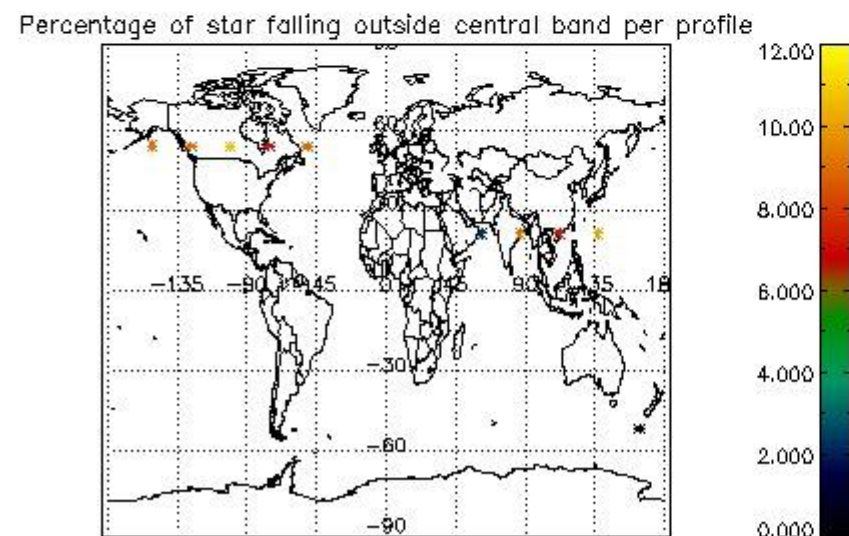
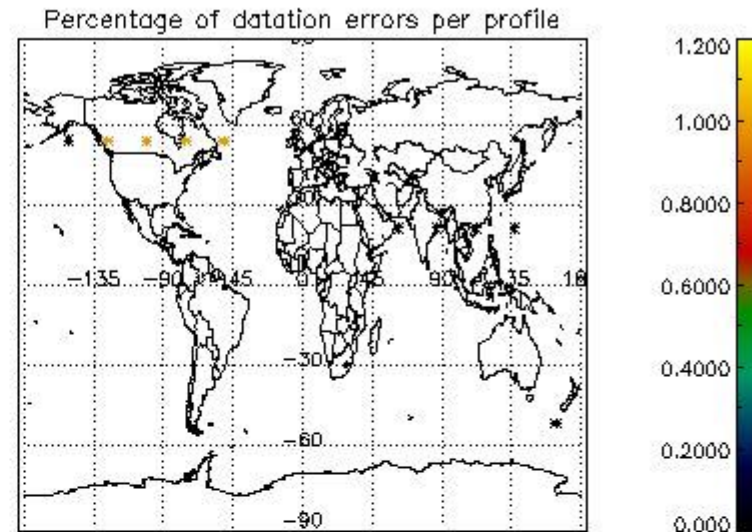
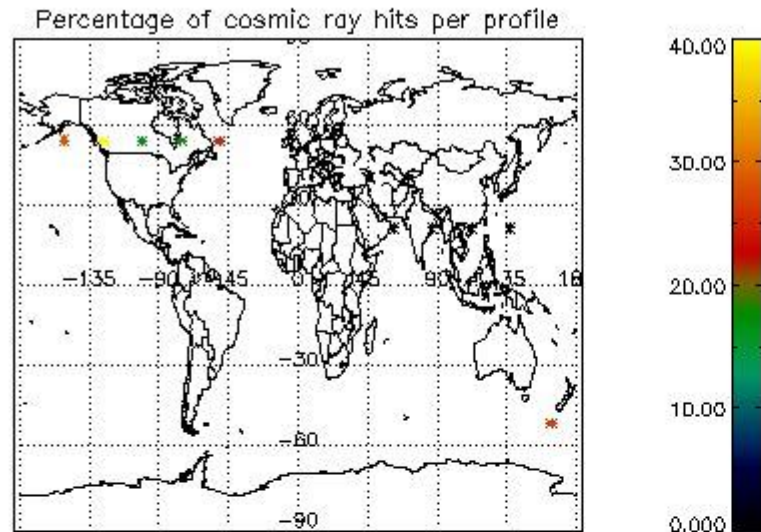
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	60.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	40.0000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



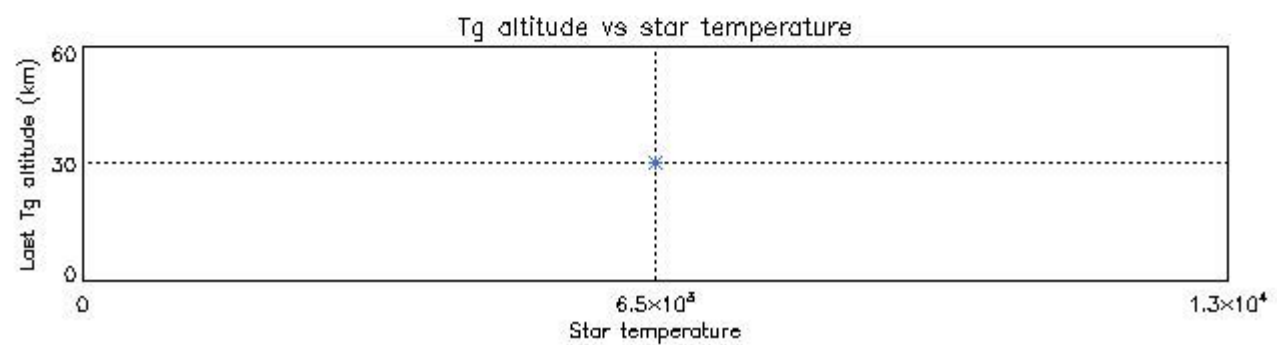
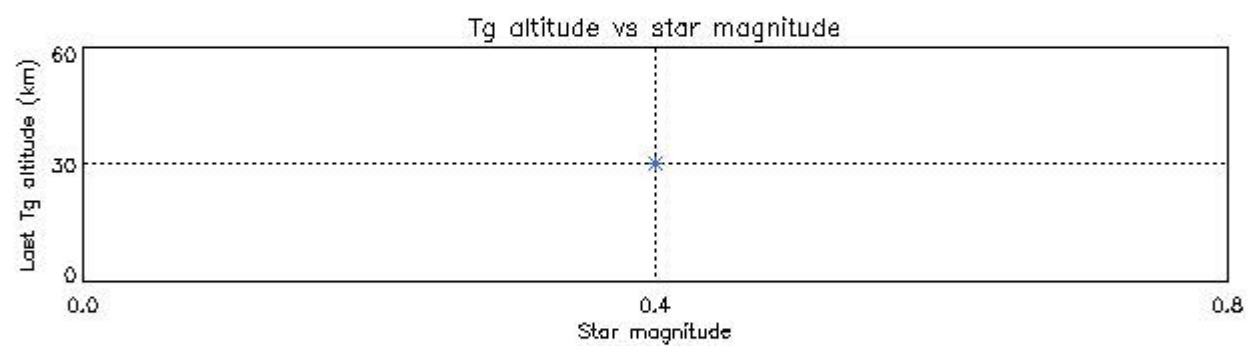
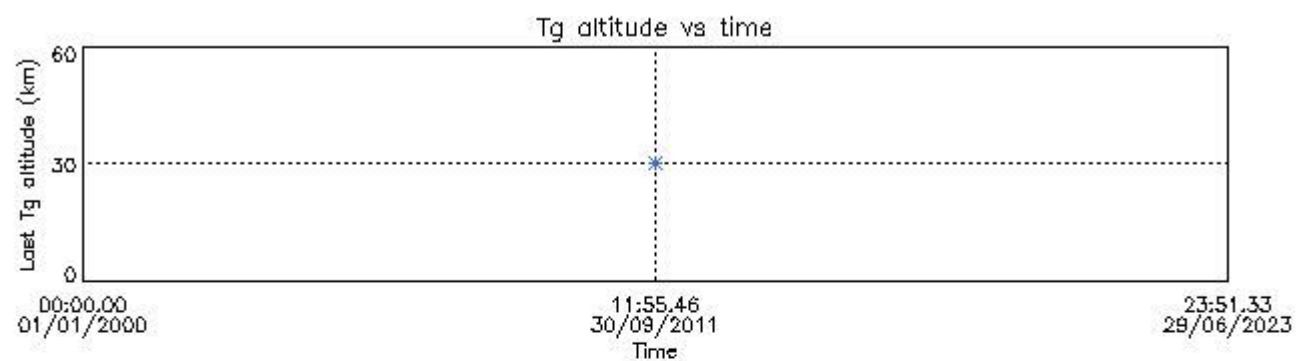
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	29.998	20.102	NaN
St. deviation:	0.0000	2.3434	NaN
Maximum:	29.998	23.576	NaN
Minimum:	29.998	18.689	NaN
Number of data:	1.0000	4.0000	NaN

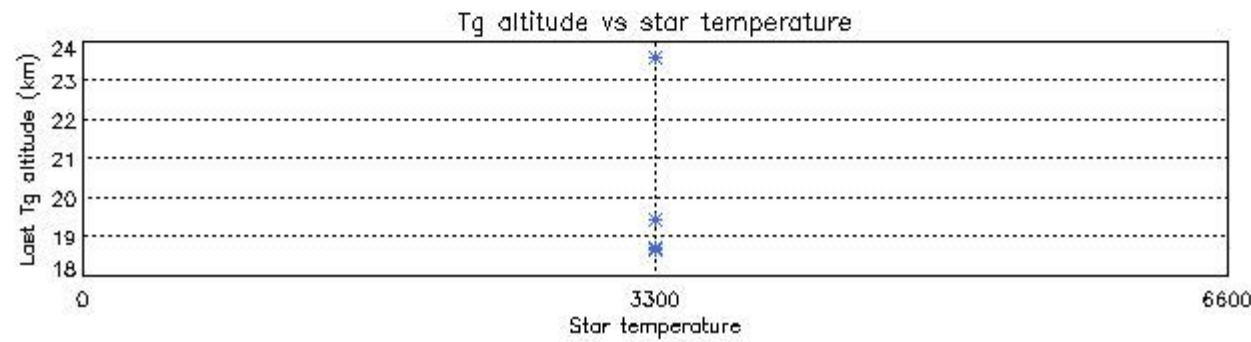
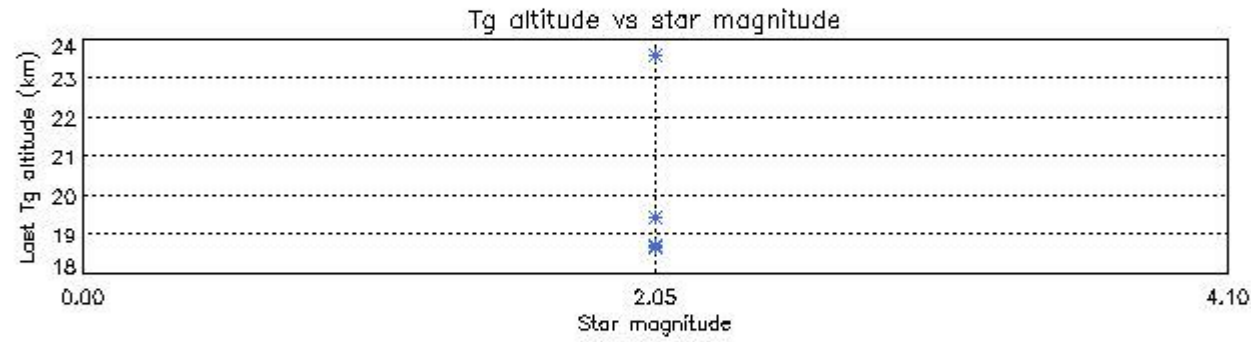
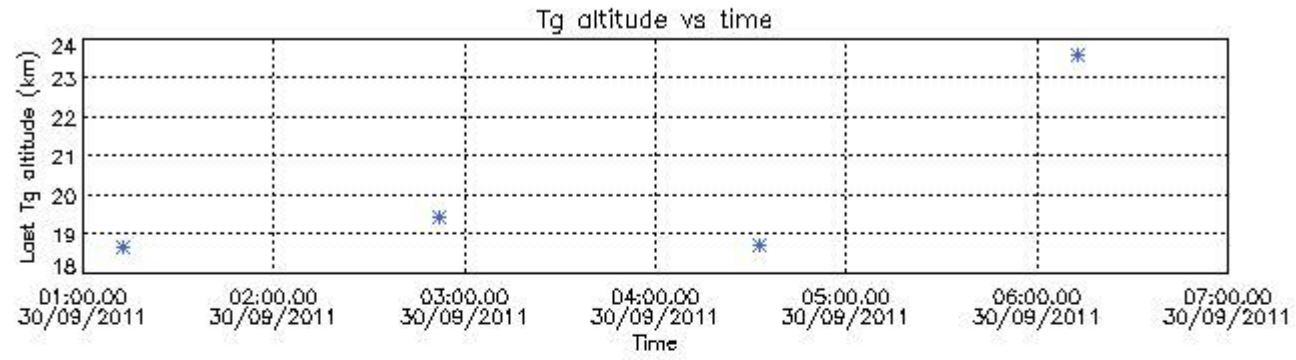
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

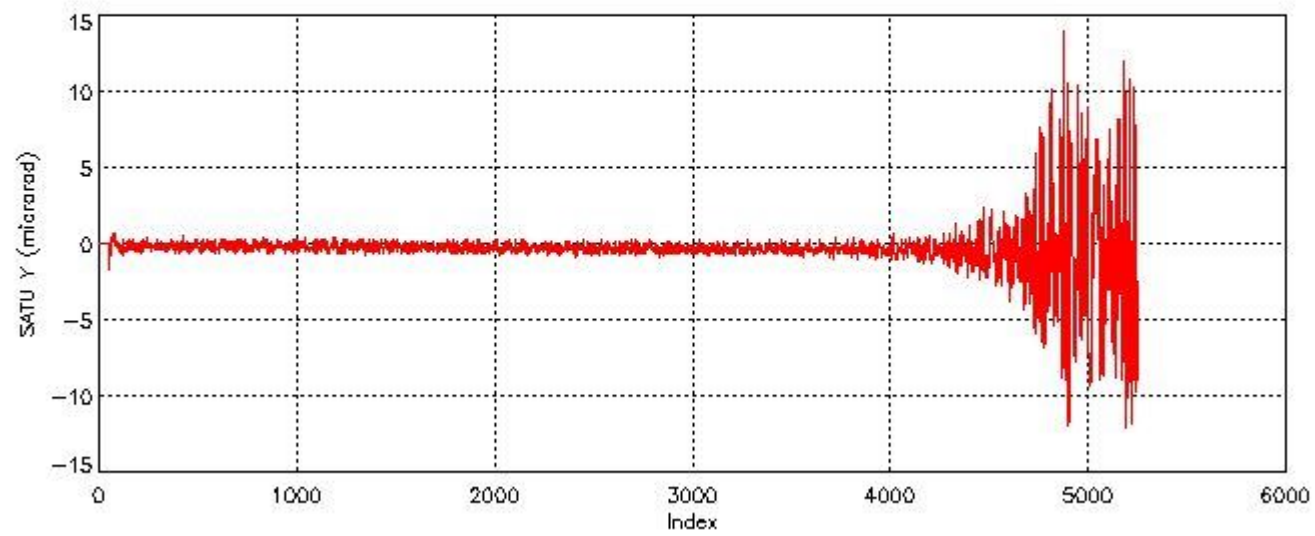
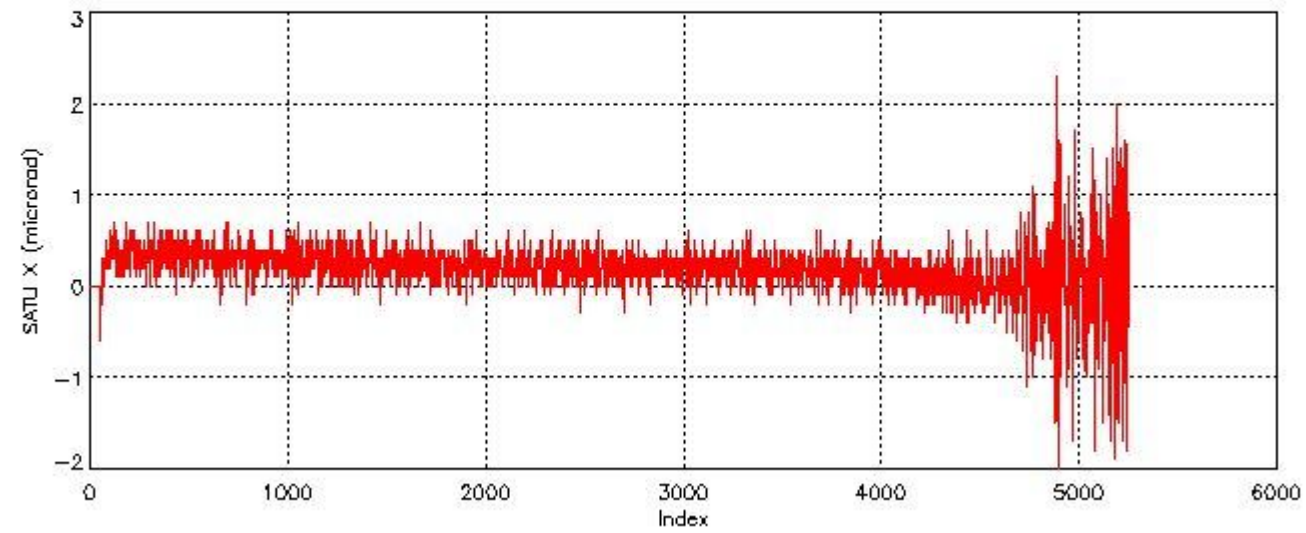


7. Star Acquisition and Tracking Unit (SATU)

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:	0.29486	-0.17229	0.25778	-0.26528
St. deviation:	0.16542	0.23170	0.26190	0.29239
Maximum:	0.70000	0.60000	1.20000	1.00000
Minimum:	-0.60000	-1.70000	-0.70000	-1.90000

Number of data:	1400.0	1400.0	4600.0	4600.0
90Percentile:	0.50000	0.10000	0.60000	0.10000

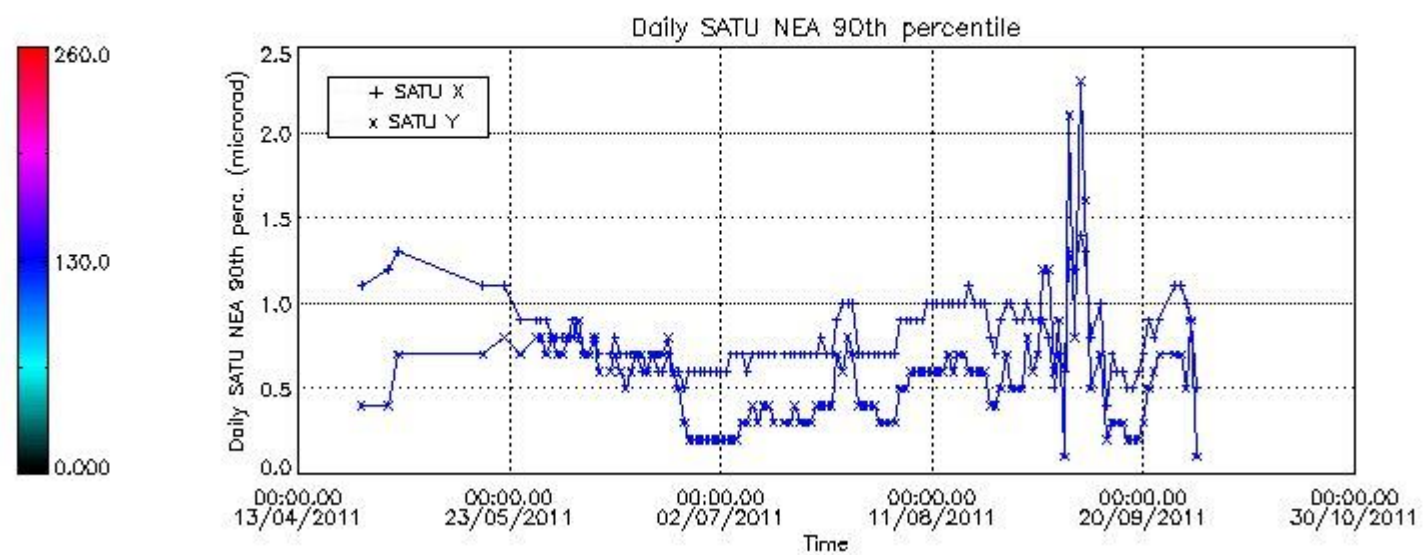
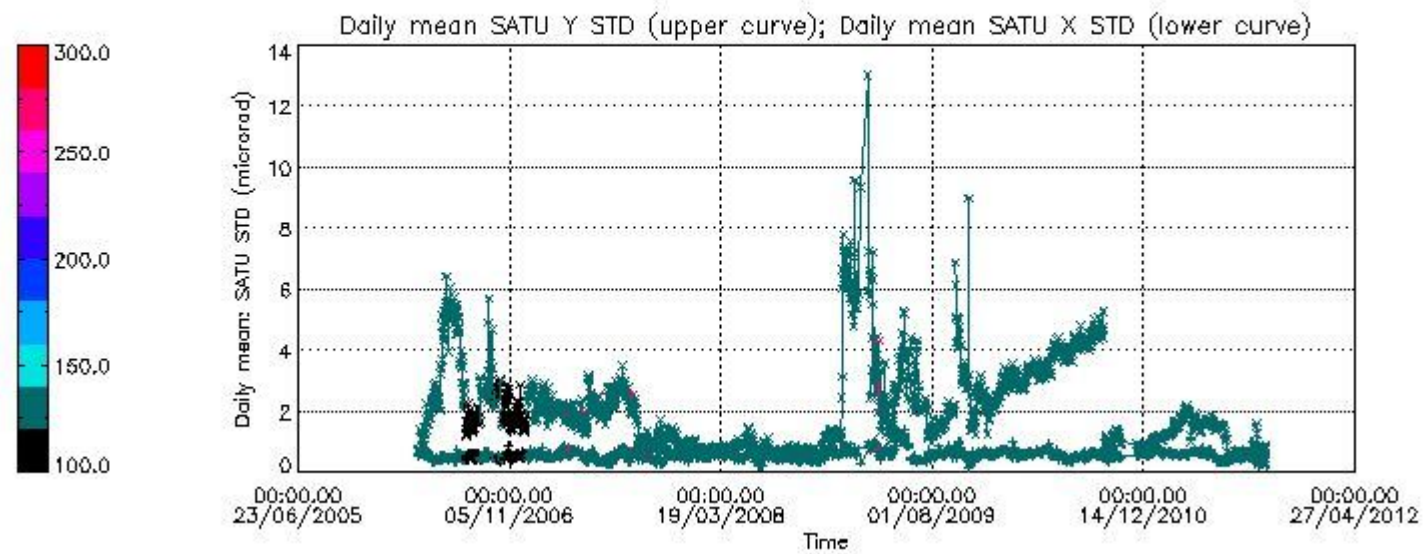
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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

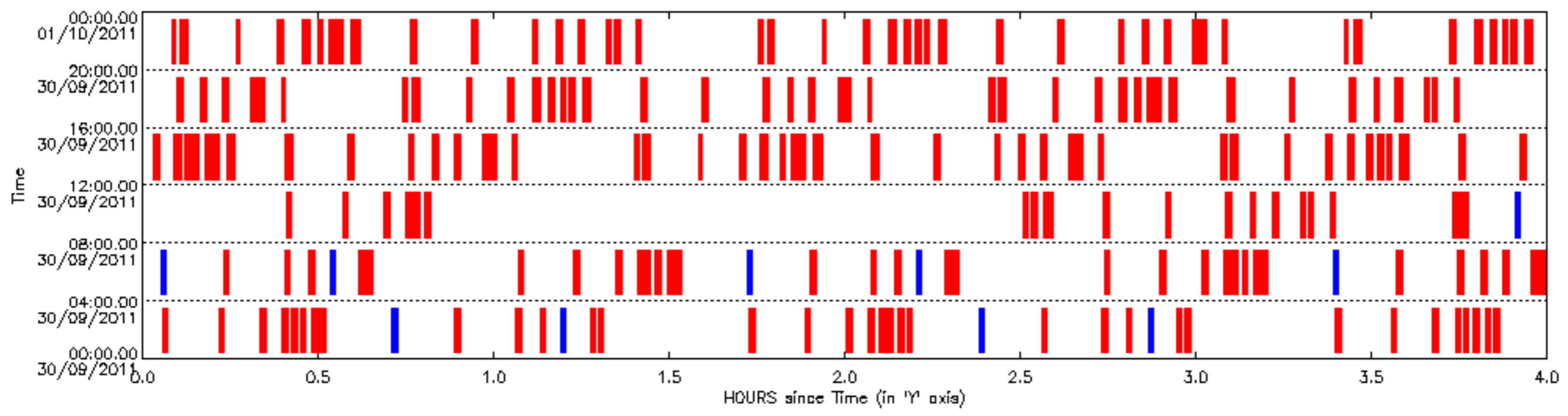
Lower curve: STD of SATU X axis

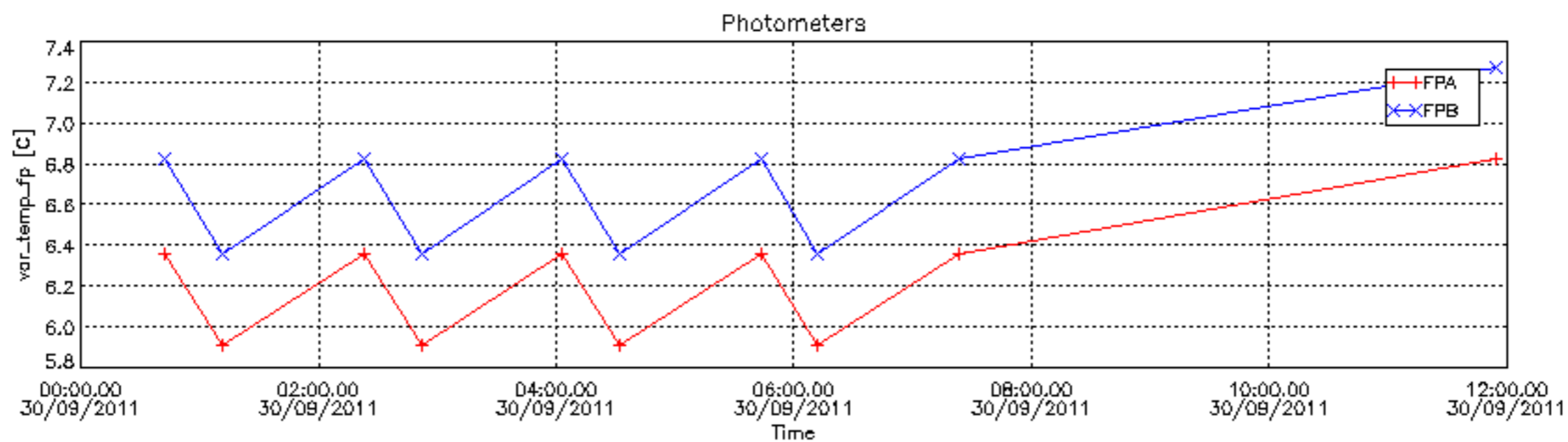
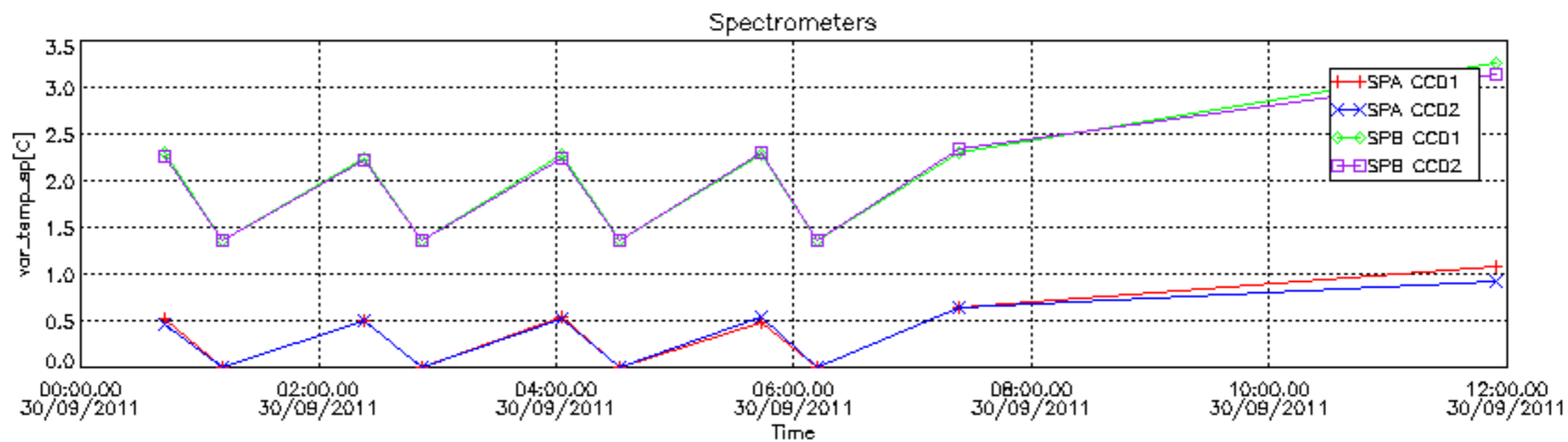


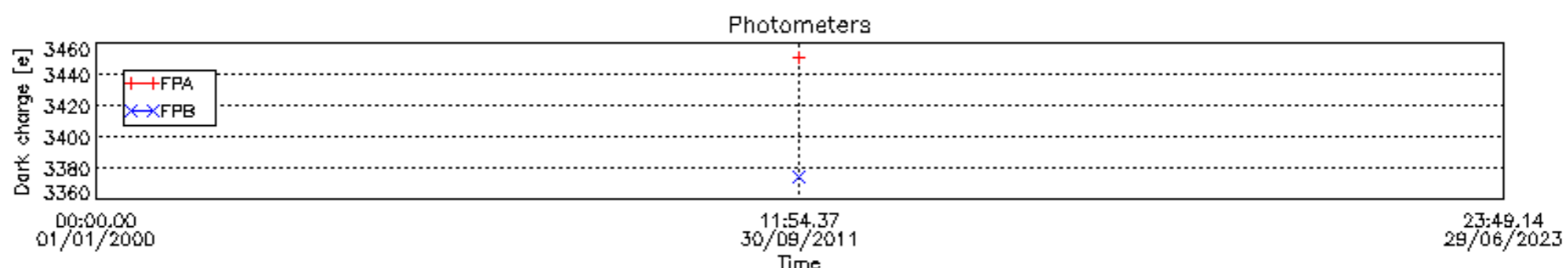
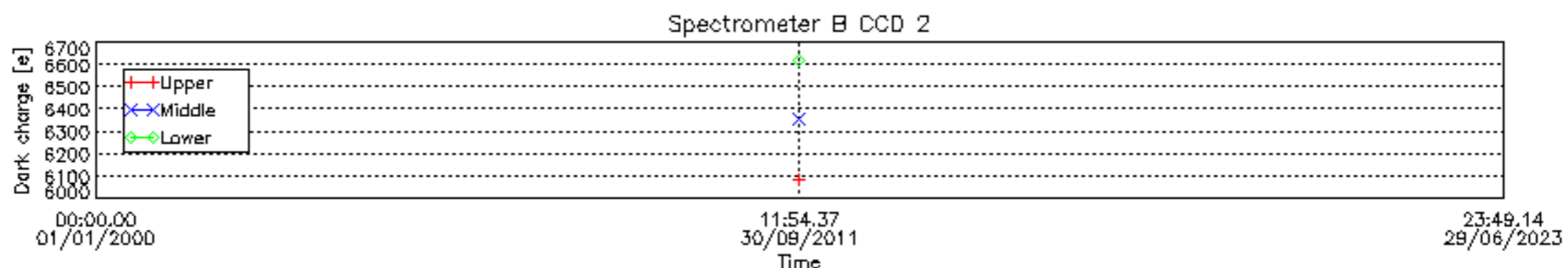
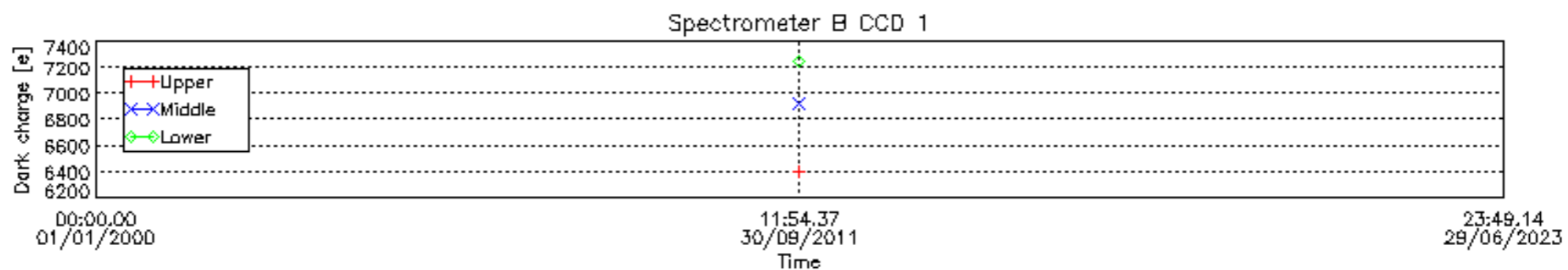
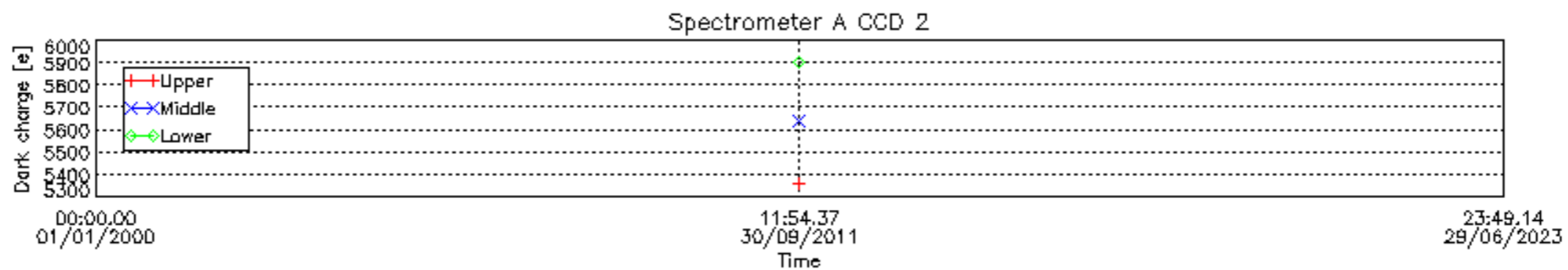
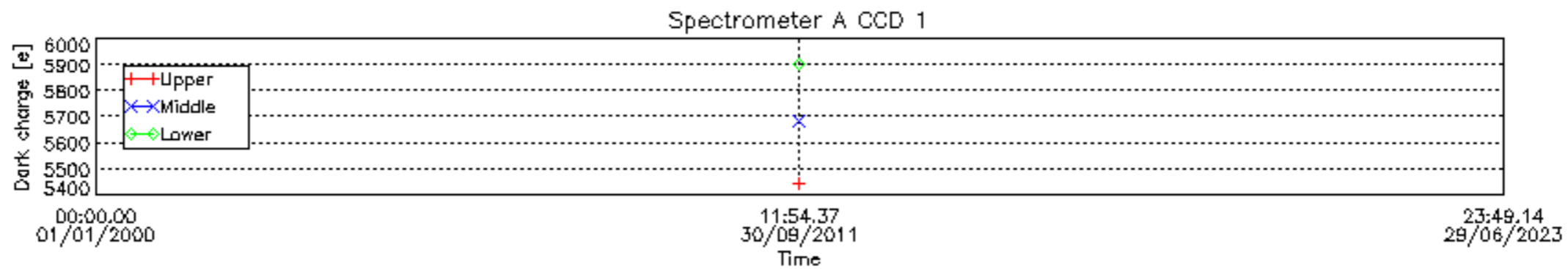
8. Auxiliary Data Files used for the production reported in section 2.4

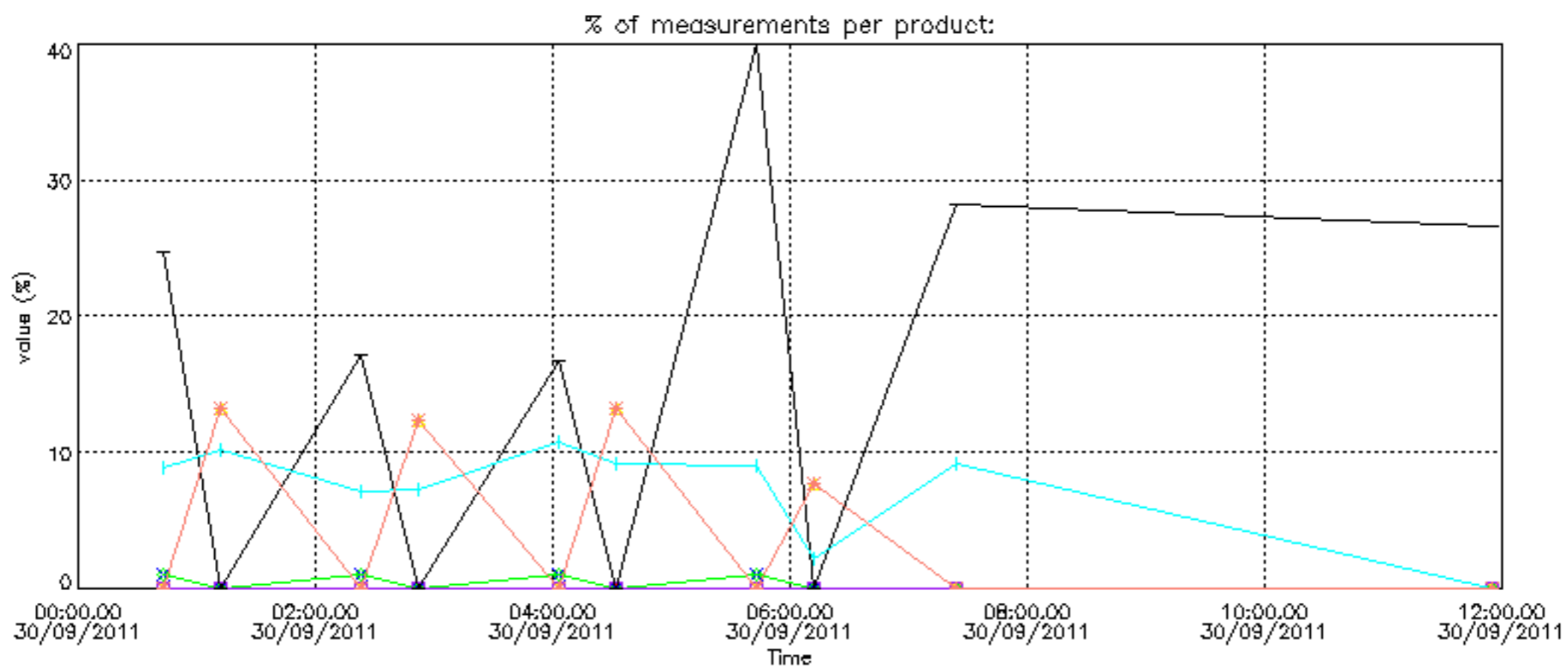
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	30-SEP-2011 00:42:35
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110923_090428_20110920_000000_20500101_000000	1	30-SEP-2011 00:42:35
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	30-SEP-2011 00:42:35
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	30-SEP-2011 00:42:35
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	30-SEP-2011 00:42:35
ECMWF_FILE	AUX_ECF_AXNECM20110929_062116_20110929_210000_20110930_090000	1	30-SEP-2011 00:42:35
ECMWF_FILE	AUX_ECF_AXNECM20110929_180925_20110930_030000_20110930_150000	5	30-SEP-2011 04:03:05
ECMWF_FILE	AUX_ECA_AXNECM20110930_062112_20110929_210000_20110930_090000	7	30-SEP-2011 05:43:20
ECMWF_FILE	AUX_ECF_AXNECM20110930_062113_20110930_090000_20110930_210000	10	30-SEP-2011 11:54:37
OPTIONAL_ECMWF_FILE	MISSING	1	30-SEP-2011 00:42:35
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110929_222927_20110929_092523_20111009_095854	1	30-SEP-2011 00:42:35
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110930_102112_20110929_192647_20111009_214031	10	30-SEP-2011 11:54:37

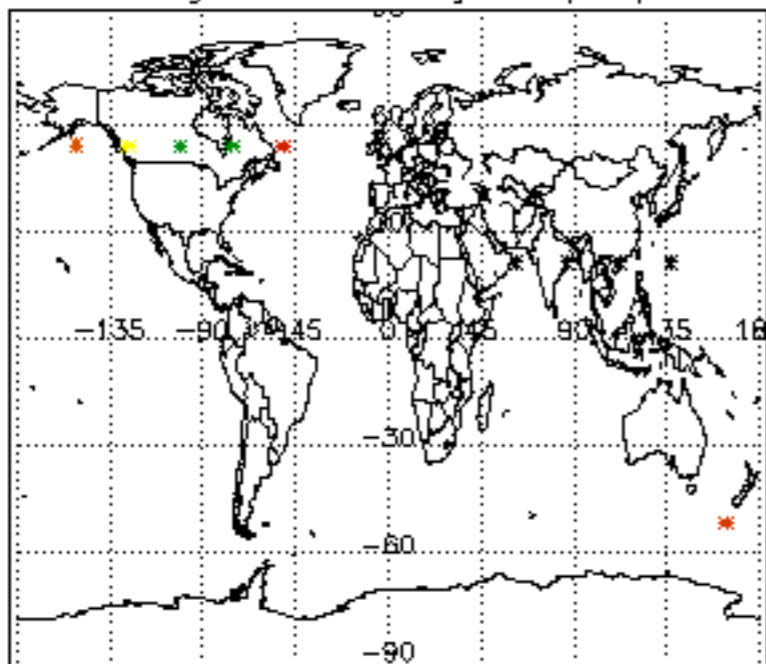




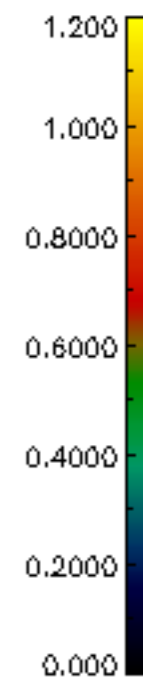
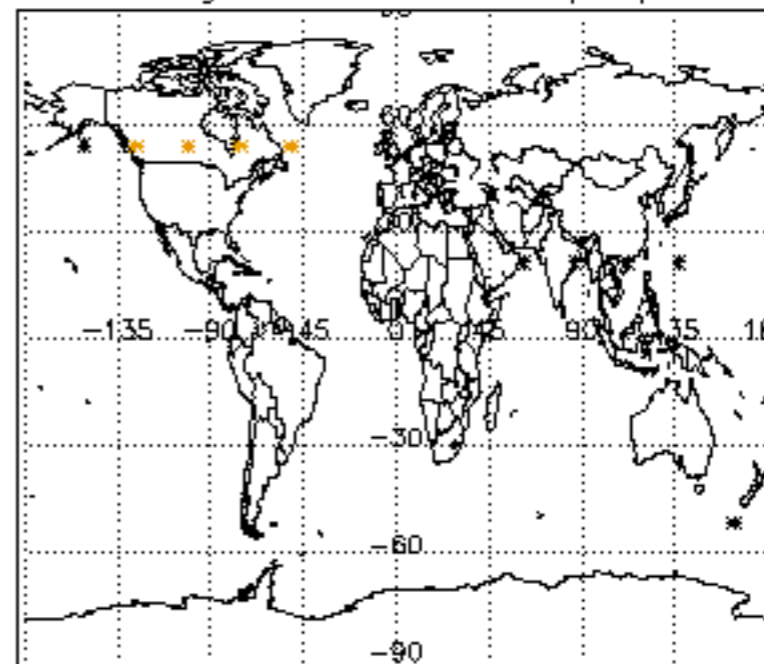




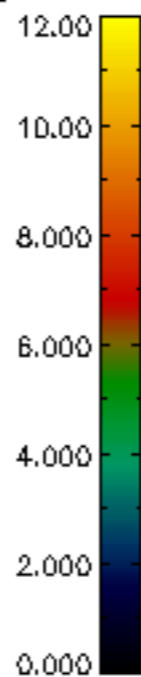
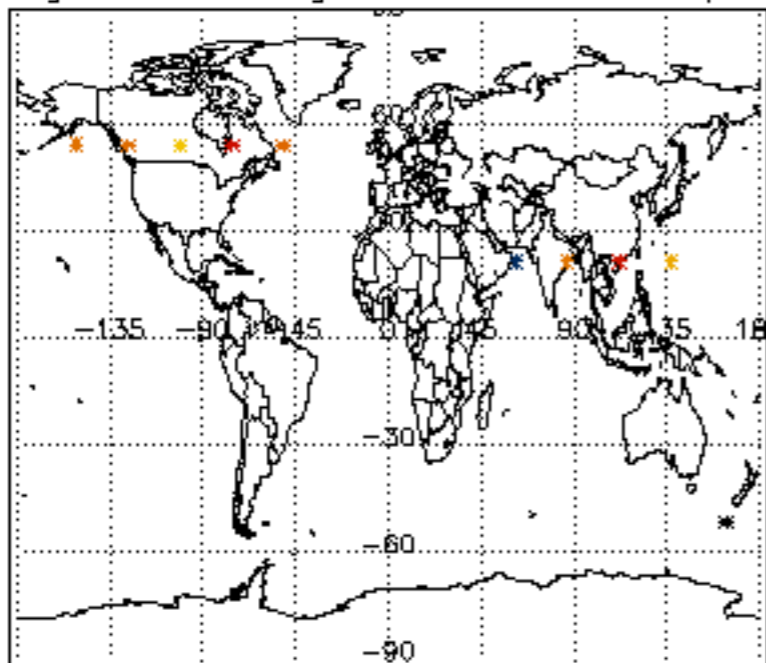
Percentage of cosmic ray hits per profile



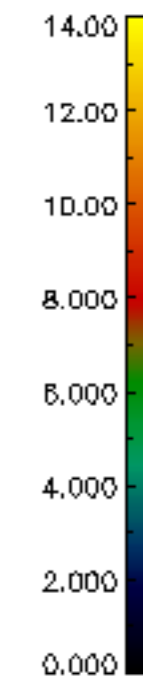
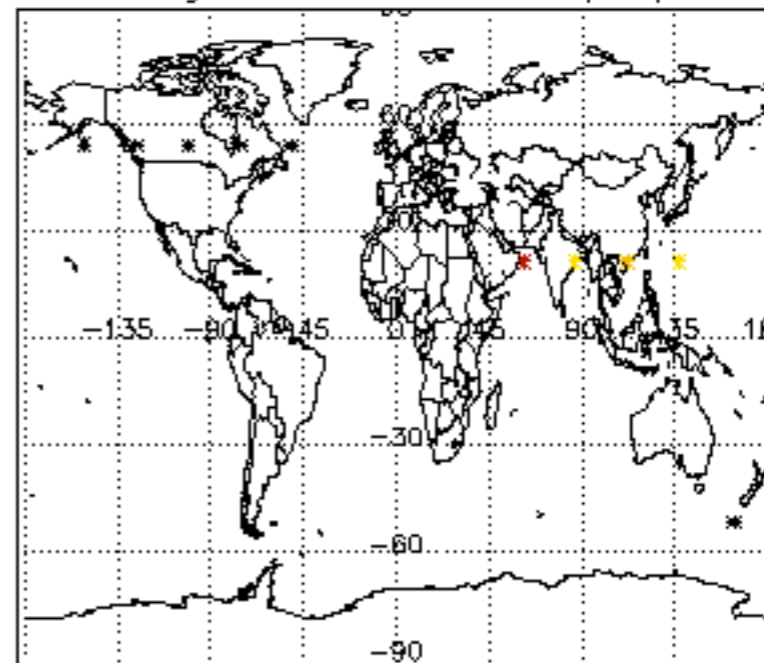
Percentage of datation errors per profile



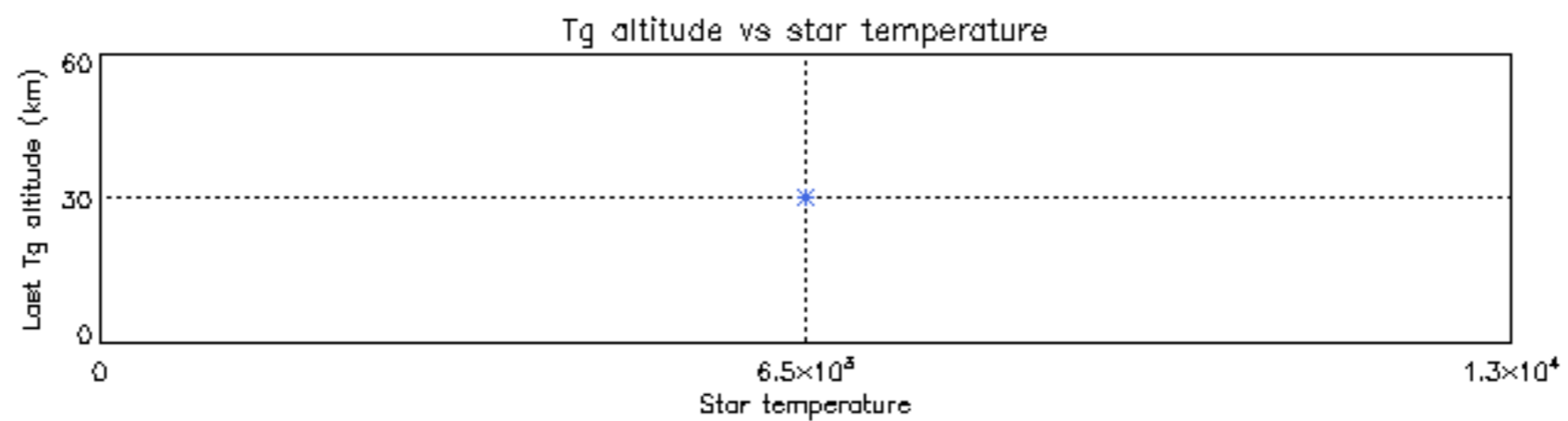
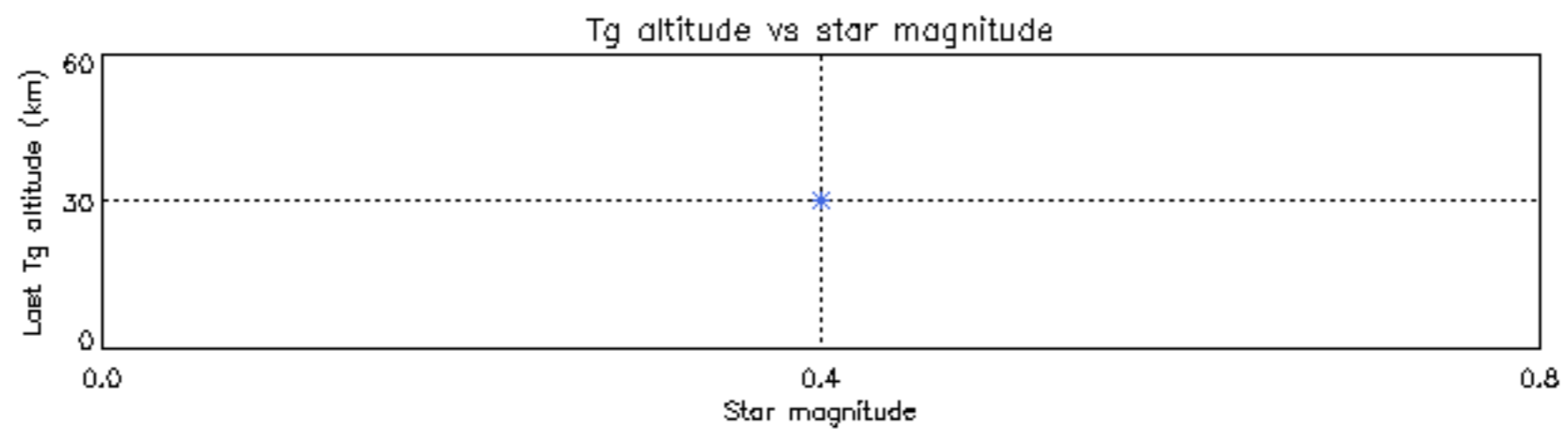
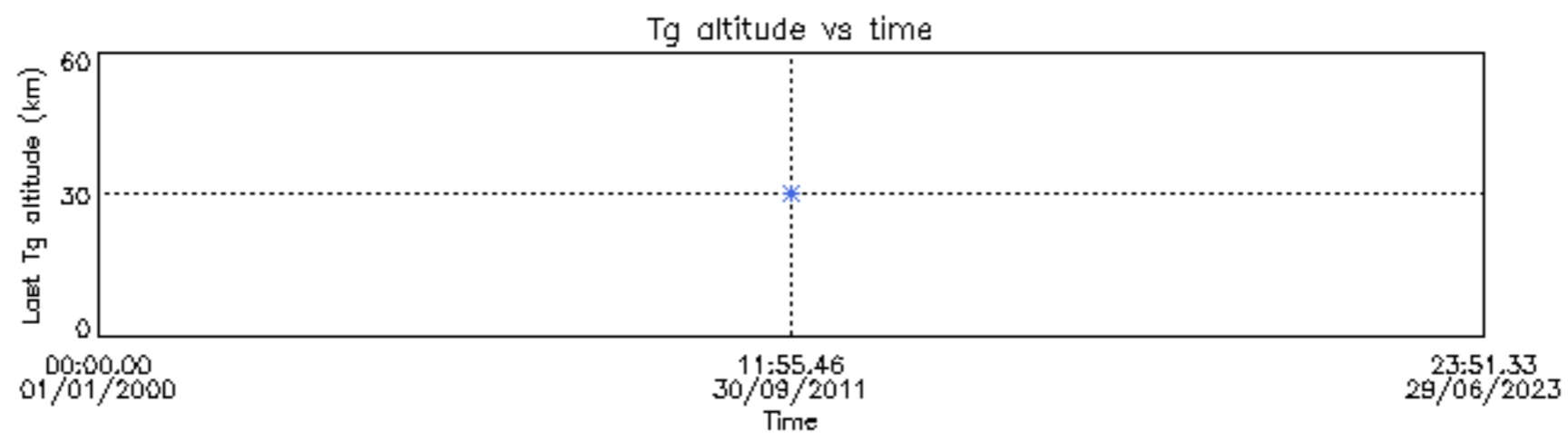
Percentage of star falling outside central band per profile



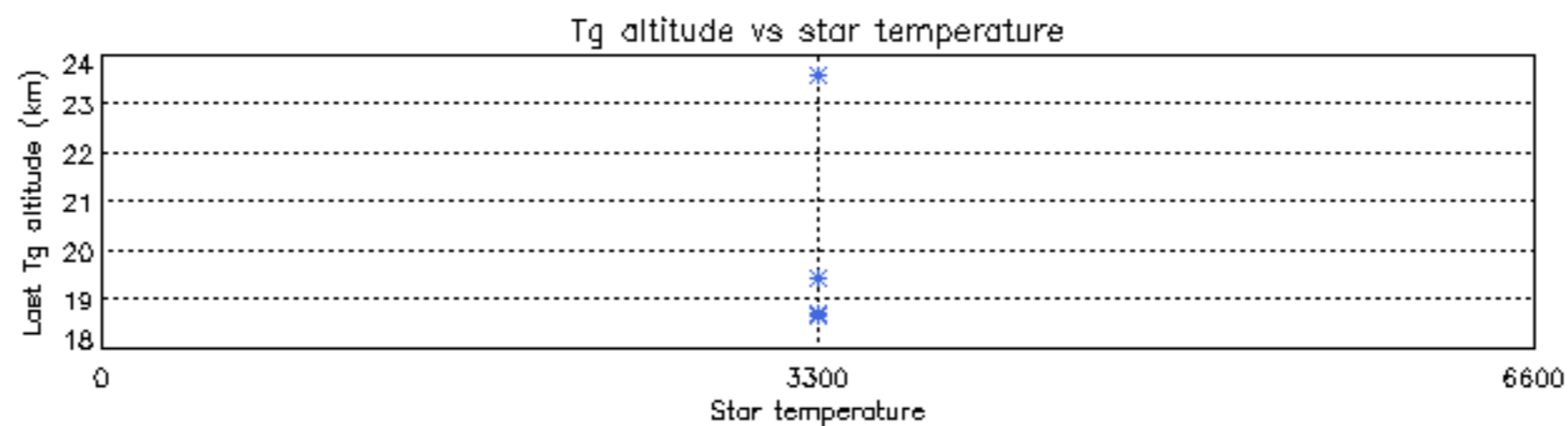
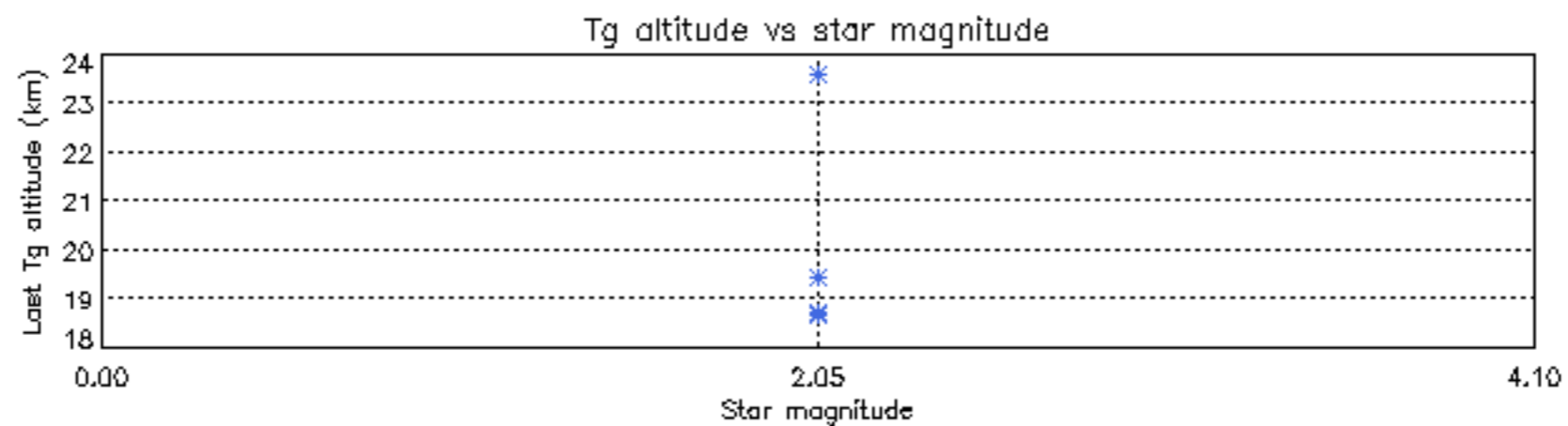
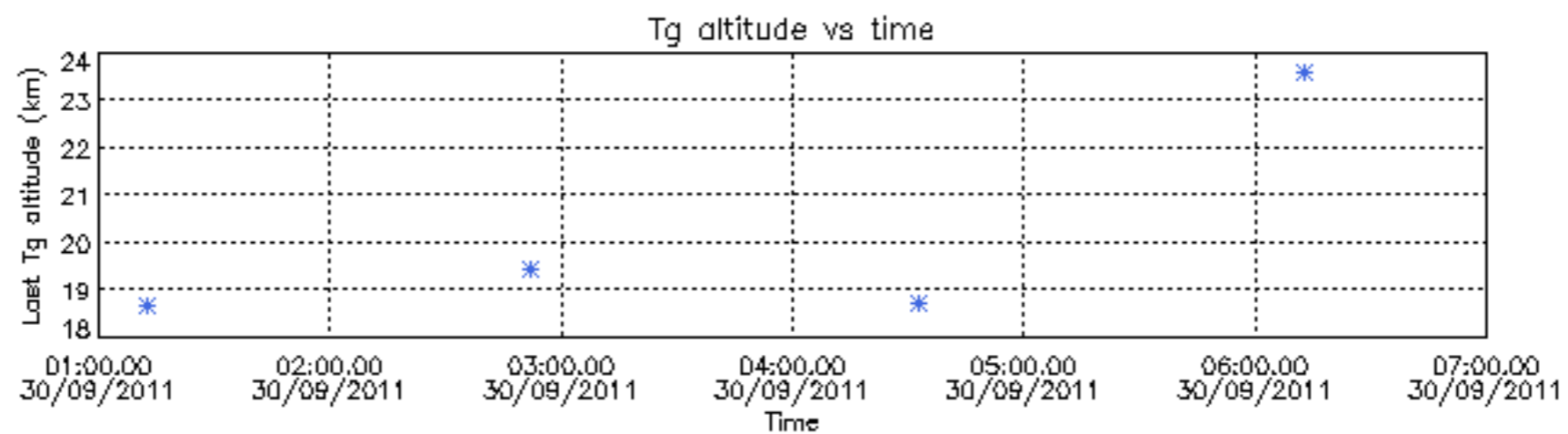
Percentage of saturation errors per profile

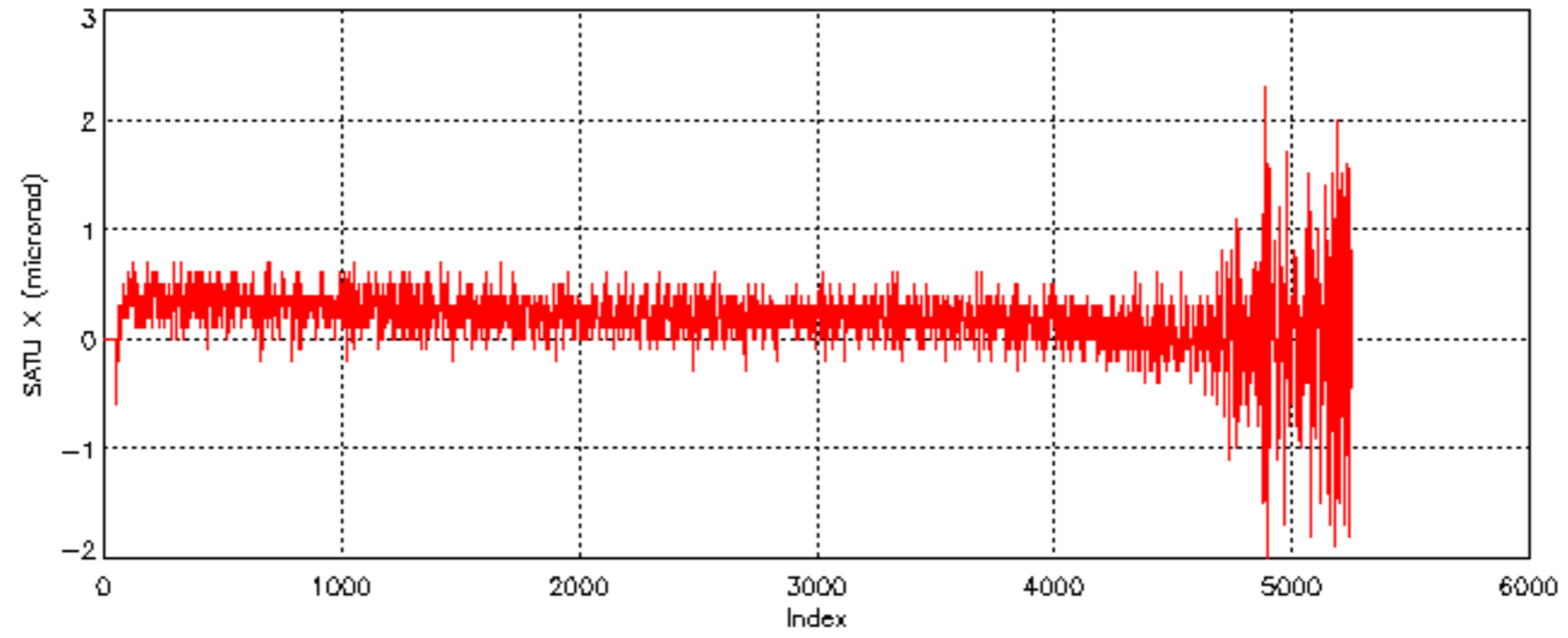


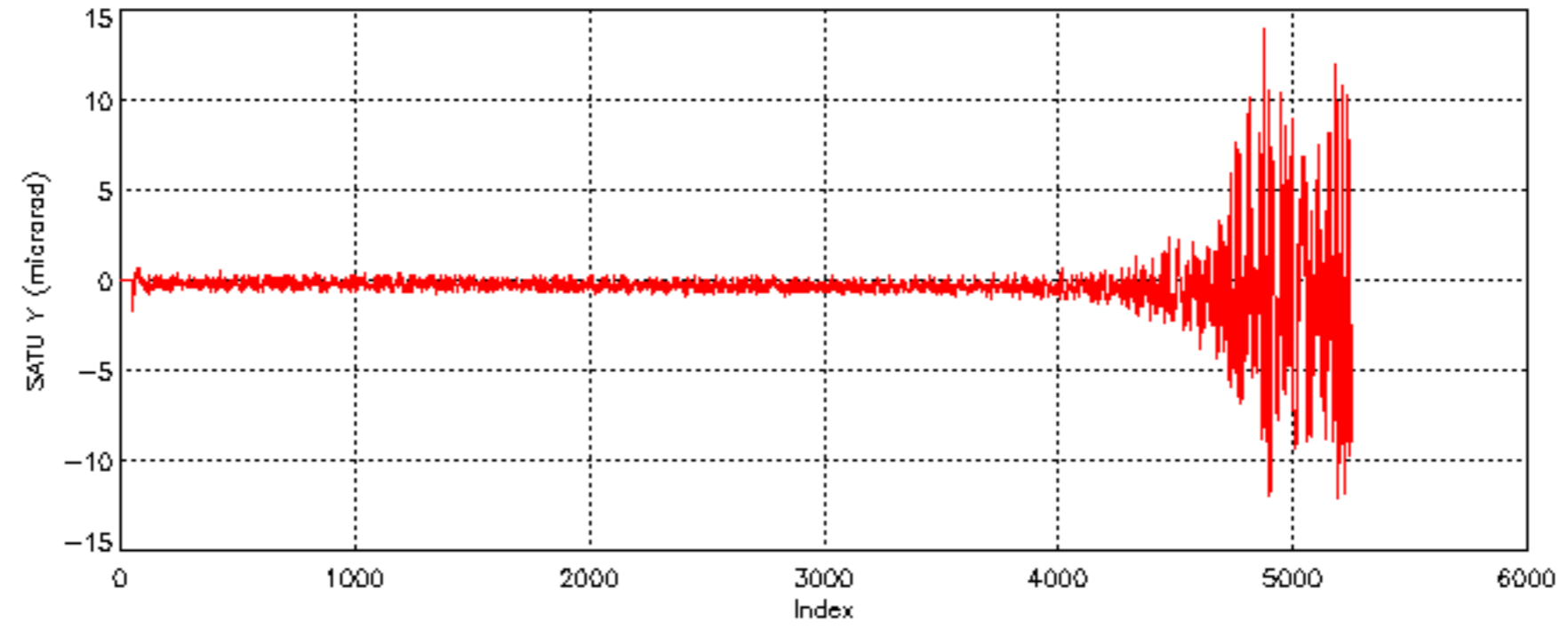
Tangent altitude at which the star is lost

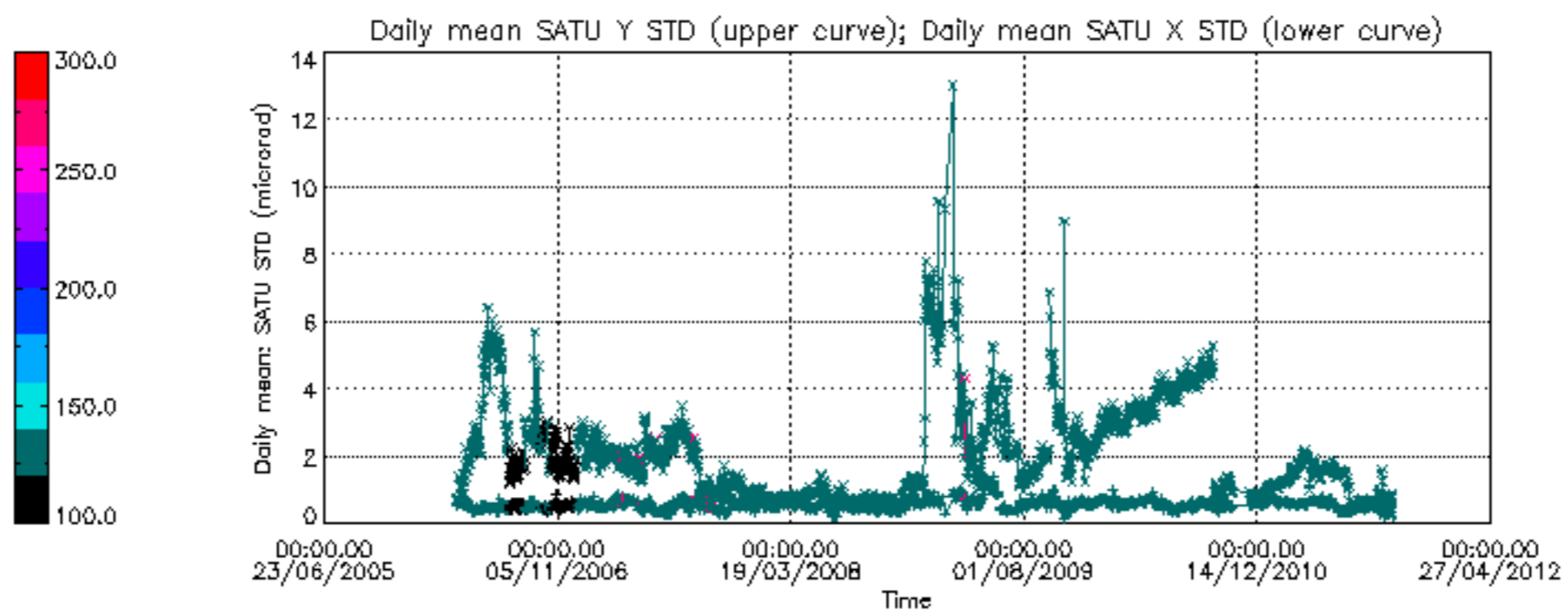


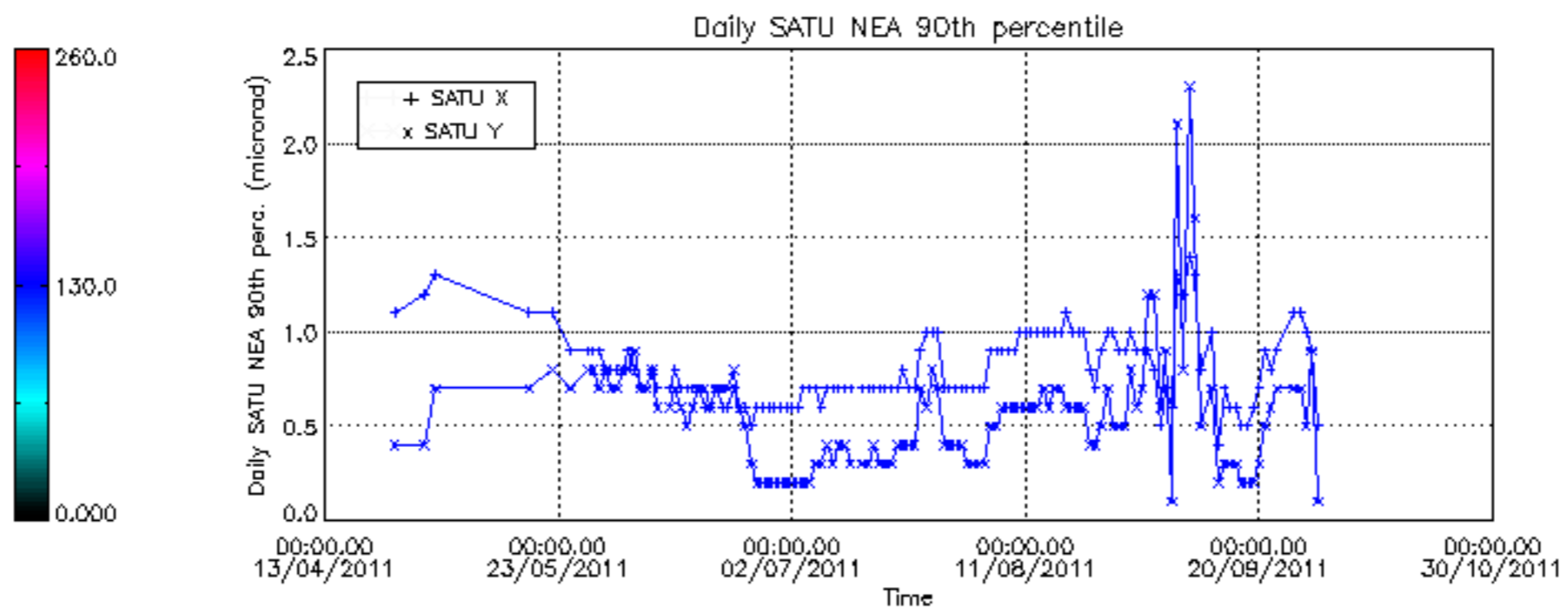
Tangent altitude at which the star is lost











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1; 961.5; 01-SEP-2011 01:46:41; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;49701
2; 2062.2; 01-SEP-2011 02:05:02; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;49701
3; 4495.1; 01-SEP-2011 02:45:35; Bright; 36.5; 17; 78Bet Gem ; 1.16; 4500;occ; 73; 0;49701
4; 6976.1; 01-SEP-2011 03:26:56; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;49702
5; 8076.1; 01-SEP-2011 03:45:16; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;49702

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1; -648.5; 01-SEP-2011 21:22:39; Dark ; 53.0; 1; 9Alp CMA ; -1.44; 11000;occ; 106; 0;49712
2; -569.5; 01-SEP-2011 21:23:58; Dark ; 46.0; 47; 2Bet CMA ; 1.98; 28000;occ; 92; 0;49712
3; 968.4; 01-SEP-2011 21:49:36; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;49713
4; 1326.8; 01-SEP-2011 21:55:34; Dark ; 51.5; 18; 24Alp PsA ; 1.17; 9700;occ; 103; 0;49713
5; 1883.3; 01-SEP-2011 22:04:51; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;49713

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1; -568.8; 01-SEP-2011 23:04:13; Dark ; 49.0; 47; 2Bet CMA ; 1.98; 28000;occ; 98; 0;49713
2; 2061.8; 01-SEP-2011 23:48:03; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;49714
3; 5366.7; 02-SEP-2011 00:43:08; Dark ; 30.0; 1; 9Alp CMA ; -1.44; 11000;occ; 60; 0;49714

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1; 610.0; 01-SEP-2011 13:22:27; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;49708
2; 965.6; 01-SEP-2011 13:28:23; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;49708

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1; 966.1; 01-SEP-2011 15:08:38; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;49709

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2; 1883.3; 01-SEP-2011 15:23:55; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;49709
3; 2062.0; 01-SEP-2011 15:26:53; Bright; 39.5; 61; 8Eps Peg ; 2.10; 3900;occ; 79; 0;49709
4; 6980.6; 01-SEP-2011 16:48:52; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;49710

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2; 2062.1; 01-SEP-2011 17:07:08; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;49710
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2; 1883.3; 01-SEP-2011 18:44:23; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;49711
3; 2062.0; 01-SEP-2011 18:47:22; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;49711

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3; 969.5; 02-SEP-2011 01:10:05; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;49715
4; 2061.8; 02-SEP-2011 01:28:17; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;49715

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3; 970.1; 02-SEP-2011 02:50:19; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;49716
4; 1327.6; 02-SEP-2011 02:56:17; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;49716

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3; 1327.9; 02-SEP-2011 04:36:31; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;49717
4; 1883.2; 02-SEP-2011 04:45:46; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;49717
5; 2061.9; 02-SEP-2011 04:48:45; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;49717
6; 2472.7; 02-SEP-2011 04:55:36; Bright; 42.5; 164; 44Eta Peg ; 2.95; 5400;occ; 85; 0;49717

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2; 976.7; 02-SEP-2011 22:53:14; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;49728
3; 3099.9; 02-SEP-2011 23:28:37; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49728
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3; -644.7; 02-SEP-2011 07:24:07; Dark ; 53.5; 1; 9Alp CMA ; -1.44; 11000;occ; 107; 0;49718
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3; 5370.0; 02-SEP-2011 09:04:21; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;49719
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3; 972.8; 02-SEP-2011 11:11:32; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;49721
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2; 3104.0; 02-SEP-2011 11:47:03; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;49721
3; 4902.7; 02-SEP-2011 12:17:02; Dark ; 47.5; 8; 10Alp CMI ; 0.40; 6500;occ; 95; 0;49721
4; 5451.6; 02-SEP-2011 12:26:11; Dark ; 51.0; 47; 2Bet CMA ; 1.98; 28000;occ; 102; 0;49721
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2; 3102.3; 02-SEP-2011 16:47:43; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;49724
3; 5373.4; 02-SEP-2011 17:25:34; Dark ; 51.0; 1; 9Alp CMA ; -1.44; 11000;occ; 102; 0;49724
4; 5454.3; 02-SEP-2011 17:26:55; Dark ; 51.5; 47; 2Bet CMA ; 1.98; 28000;occ; 103; 0;49724
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3; 3101.7; 02-SEP-2011 18:27:57; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;49725
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5; 4904.1; 02-SEP-2011 18:57:59; Dark ; 47.5; 8; 10Alp CMI ; 0.40; 6500;occ; 95; 0;49725
6; 5374.0; 02-SEP-2011 19:05:49; Dark ; 52.0; 1; 9Alp CMA ; -1.44; 11000;occ; 104; 0;49725
7; 5455.0; 02-SEP-2011 19:07:10; Dark ; 49.5; 47; 2Bet CMA ; 1.98; 28000;occ; 99; 0;49725
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2; 1330.1; 02-SEP-2011 19:38:39; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;49726
3; 3101.1; 02-SEP-2011 20:08:10; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;49726
4; 4784.4; 02-SEP-2011 20:36:13; Dark ; 54.5; 44; 24Gam Gem ; 1.93; 11000;occ; 109; 0;49726
5; 4904.4; 02-SEP-2011 20:38:13; Dark ; 45.0; 8; 10Alp CMI ; 0.40; 6500;occ; 90; 0;49726
6; 5374.7; 02-SEP-2011 20:46:04; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;49726
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3; 1330.9; 03-SEP-2011 00:39:22; Dark ; 25.0; 18; 24Alp PsA ; 1.17; 9700;occ; 50; 0;49729
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3; 1331.1; 03-SEP-2011 02:19:36; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;49730

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3; 1883.5; 03-SEP-2011 20:51:22; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;49741
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3; 984.2; 03-SEP-2011 22:16:37; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;49742
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5; 1883.4; 03-SEP-2011 22:31:36; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;49742
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3; 4907.9; 03-SEP-2011 13:20:36; Dark ; 50.5; 8; 10Alp CMi ; 0.40; 6500;occ; 101; 0;49736
4; 5541.5; 03-SEP-2011 13:31:10; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;49736
5; 6995.5; 03-SEP-2011 13:55:24; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;49737
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5; 982.2; 03-SEP-2011 15:35:39; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;49738
6; 1333.3; 03-SEP-2011 15:41:30; Dark ; 30.0; 18; 24Alp PsA ; 1.17; 9700;occ; 60; 0;49738
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4; 1027.5; 09-SEP-2011 23:37:35; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;49829
5; 2181.6; 09-SEP-2011 23:56:49; Bright; 41.0; 90; 54Alp Peg ; 2.49; 11000;occ; 82; 0;49829
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7; 5595.0; 09-SEP-2011 09:51:36; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;49820
8; 5723.0; 09-SEP-2011 09:53:44; Dark ; 46.0; 177; 1Zet CMA ; 3.02; 26000;occ; 92; 0;49820
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3; 3048.5; 09-SEP-2011 10:49:24; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;49821
4; 4448.3; 09-SEP-2011 11:12:44; Bright; 40.0; 24; 66Alp Gem ; 1.58; 10200;occ; 80; 0;49821
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7; 5723.9; 09-SEP-2011 11:33:59; Dark ; 45.5; 177; 1Zet CMA ; 3.02; 26000;occ; 91; 0;49821
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5; 3045.9; 09-SEP-2011 19:10:31; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;49826
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6; 3043.6; 10-SEP-2011 01:51:25; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;49830
7; 3158.4; 10-SEP-2011 01:53:19; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;49830
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4; 3134.6; 12-SEP-2011 20:42:15; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49870
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6; 700.7; 12-SEP-2011 21:41:55; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;49871
7; 1046.0; 12-SEP-2011 21:47:40; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;49871
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12; 4454.7; 12-SEP-2011 22:44:29; Bright; 61.0; 24; 66Alp Gem ; 1.58; 10200;occ; 122; 0;49871
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5; 1046.4; 12-SEP-2011 23:27:54; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;49872
6; 2171.4; 12-SEP-2011 23:46:39; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;49872
7; 2405.1; 12-SEP-2011 23:50:33; Bright; 42.5; 93; 53Bet Peg ; 2.52; 3100;occ; 85; 0;49872
8; 3023.1; 13-SEP-2011 00:00:51; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;49872
9; 3133.4; 13-SEP-2011 00:02:41; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;49872
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5; 3118.1; 14-SEP-2011 21:08:43; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;49899
6; 4458.6; 14-SEP-2011 21:31:04; Bright; 56.5; 24; 66Alp Gem ; 1.58; 10200;occ; 113; 0;49899
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4; 3121.6; 14-SEP-2011 11:07:23; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49893
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3; 2398.1; 14-SEP-2011 19:16:29; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;49898
4; 3011.5; 14-SEP-2011 19:26:43; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;49898
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6; 1516.0; 15-SEP-2011 01:42:43; Dark ; 26.0; 52; 16Bet Cet ; 2.04; 4500;occ; 52; 0;49902
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11; 2517.6; 15-SEP-2011 07:00:06; Bright; 33.0; 58; 21Alp And ; 2.07; 11000;occ; 66; 0;49905
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4; -330.3; 17-SEP-2011 04:59:09; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;49932
5; -99.2; 17-SEP-2011 05:03:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49932
6; 1071.5; 17-SEP-2011 05:22:31; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;49933
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3; 2160.3; 17-SEP-2011 20:42:46; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;49942
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6; 2992.5; 17-SEP-2011 20:56:38; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49942
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12; 7086.6; 17-SEP-2011 10:23:14; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;49936
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5; 2994.4; 17-SEP-2011 14:15:44; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49938
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4; 1080.8; 18-SEP-2011 23:08:30; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;49958
5; 1524.1; 18-SEP-2011 23:15:53; Dark ; 55.5; 52; 16Bet Cet ; 2.04; 4500;occ; 111; 0;49958
6; 2158.3; 18-SEP-2011 23:26:27; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;49958
7; 2385.2; 18-SEP-2011 23:30:14; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;49958
8; 2485.3; 18-SEP-2011 23:31:54; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;49958
9; 2986.0; 18-SEP-2011 23:40:15; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49958
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3; -73.7; 19-SEP-2011 00:29:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49958
4; 1081.2; 19-SEP-2011 00:48:44; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;49959
5; 1524.3; 19-SEP-2011 00:56:07; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;49959
6; 2158.1; 19-SEP-2011 01:06:41; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;49959
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9; 2985.8; 19-SEP-2011 01:20:29; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49959
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3; -72.7; 19-SEP-2011 02:09:44; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49959
4; 1081.6; 19-SEP-2011 02:28:58; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;49960
5; 1524.4; 19-SEP-2011 02:36:21; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;49960
6; 2158.2; 19-SEP-2011 02:46:55; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;49960
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8; 2484.4; 19-SEP-2011 02:52:21; Bright; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;49960
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5; 3083.5; 19-SEP-2011 09:43:16; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;49964
6; 4467.0; 19-SEP-2011 10:06:20; Bright; 46.0; 24; 66Alp Gem ; 1.58; 10200;occ; 92; 0;49964
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9; 5713.0; 19-SEP-2011 10:27:06; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;49964
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4; 2983.6; 19-SEP-2011 11:21:50; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49965
5; 3082.8; 19-SEP-2011 11:23:29; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;49965
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6; 1528.5; 20-SEP-2011 23:42:42; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;49987
7; 2380.7; 20-SEP-2011 23:56:54; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;49987

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10; 3071.9; 21-SEP-2011 00:08:26; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;49987
11; 4469.9; 21-SEP-2011 00:31:44; Bright; 47.0; 24; 66Alp Gem ; 1.58; 10200;occ; 94; 0;49987
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5; -54.4; 20-SEP-2011 08:14:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 2;49977
6; 66.9; 20-SEP-2011 08:16:15; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 5;49978
7; 1088.2; 20-SEP-2011 08:33:16; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 1;49978
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5; 3074.4; 20-SEP-2011 15:47:18; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;49982
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9; 3071.4; 21-SEP-2011 01:48:39; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;49988
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5; 2463.9; 21-SEP-2011 21:41:19; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;50000
6; 2970.4; 21-SEP-2011 21:49:46; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;50000
7; 3065.4; 21-SEP-2011 21:51:21; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;50000
8; 4471.6; 21-SEP-2011 22:14:47; Bright; 48.5; 24; 66Alp Gem ; 1.58; 10200;occ; 97; 0;50000
9; 5038.8; 21-SEP-2011 22:24:14; Dark ; 60.5; 8; 10Alp CMI ; 0.40; 6500;occ; 121; 0;50000
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2; 1096.4; 22-SEP-2011 00:38:59; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;50002
3; 1530.6; 22-SEP-2011 00:46:14; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;50002
4; 2154.8; 22-SEP-2011 00:56:38; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;50002
5; 2378.7; 22-SEP-2011 01:00:22; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;50002
6; 2462.9; 22-SEP-2011 01:01:46; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;50002
7; 2969.7; 22-SEP-2011 01:10:13; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;50002
8; 3064.5; 22-SEP-2011 01:11:47; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;50002
9; 4471.9; 22-SEP-2011 01:35:15; Bright; 50.5; 24; 66Alp Gem ; 1.58; 10200;occ; 101; 0;50002
10; 5040.2; 22-SEP-2011 01:44:43; Dark ; 65.5; 8; 10Alp CMI ; 0.40; 6500;occ; 131; 0;50002
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2; -222.5; 22-SEP-2011 01:57:14; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;50002
3; 1.5; 22-SEP-2011 02:00:58; Dark ; 49.0; 161; Tau Pup ; 2.93; 4500;occ; 98; 0;50002
4; 132.9; 22-SEP-2011 02:03:10; Dark ; 43.0; 108; Alp Col ; 2.65; 15200;occ; 86; 0;50003
5; 1096.8; 22-SEP-2011 02:19:14; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;50003
6; 1530.8; 22-SEP-2011 02:26:28; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;50003
7; 2378.6; 22-SEP-2011 02:40:35; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;50003
8; 2462.5; 22-SEP-2011 02:41:59; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;50003
9; 2969.4; 22-SEP-2011 02:50:26; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;50003
10; 3063.9; 22-SEP-2011 02:52:01; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;50003
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2; -973.1; 22-SEP-2011 03:24:58; Dark ; 70.5; 8; 10Alp CMI ; 0.40; 6500;occ; 141; 0;50003
3; -331.9; 22-SEP-2011 03:35:39; Dark ; 55.5; 37; 25Del CMA ; 1.83; 5900;occ; 111; 0;50003
4; -221.6; 22-SEP-2011 03:37:29; Dark ; 51.0; 117; Pi Pup ; 2.71; 3800;occ; 102; 0;50003
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2; 2456.8; 23-SEP-2011 00:24:55; Bright; 42.5; 58; 21Alp And ; 2.07; 11000;occ; 85; 0;50016
3; 3057.7; 23-SEP-2011 00:34:56; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;50016
4; 4473.8; 23-SEP-2011 00:58:32; Bright; 50.0; 24; 66Alp Gem ; 1.58; 10200;occ; 100; 0;50016
5; 5050.3; 23-SEP-2011 01:08:09; Dark ; 65.5; 8; 10Alp CMI ; 0.40; 6500;occ; 131; 0;50016
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1; 911.7; 26-SEP-2011 19:51:58; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 80;50071
2; 3033.2; 26-SEP-2011 20:27:20; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;50071
3; 4565.0; 26-SEP-2011 20:52:52; Bright; 26.5; 17; 78Bet Gem ; 1.16; 4500;occ; 53; 0;50071
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2;-1450.0; 26-SEP-2011 12:31:41; Bright; 44.0; 17; 78Bet Gem ; 1.16; 4500;occ; 88; 0;50066
3; -491.6; 26-SEP-2011 12:47:39; Dark ; 49.0; 132; 15Rho Pup ; 2.80; 6900;occ; 98; 0;50066
4; -287.6; 26-SEP-2011 12:51:03; Dark ; 50.0; 88; 31Eta CMA ; 2.45; 20000;occ; 100; 0;50066
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2; 3035.1; 26-SEP-2011 13:46:26; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;50067
3; 4564.2; 26-SEP-2011 14:11:55; Bright; 44.0; 17; 78Bet Gem ; 1.16; 4500;occ; 88; 0;50067
4; 5727.2; 26-SEP-2011 14:31:18; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;50067
5; 5821.1; 26-SEP-2011 14:32:52; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;50067
6; 6883.3; 26-SEP-2011 14:50:34; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;50068
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2; 3034.7; 26-SEP-2011 15:26:39; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;50068
3; 4564.4; 26-SEP-2011 15:52:09; Bright; 35.0; 17; 78Bet Gem ; 1.16; 4500;occ; 70; 0;50068
4; 5728.3; 26-SEP-2011 16:11:33; Dark ; 49.5; 88; 31Eta CMA ; 2.45; 20000;occ; 99; 0;50068
5; 5822.4; 26-SEP-2011 16:13:07; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;50068
6; 6884.2; 26-SEP-2011 16:30:49; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;50069
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2; 3034.1; 26-SEP-2011 17:06:53; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;50069
3; 4564.8; 26-SEP-2011 17:32:23; Bright; 35.0; 17; 78Bet Gem ; 1.16; 4500;occ; 70; 0;50069
4; 5729.2; 26-SEP-2011 17:51:48; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;50069
5; 5823.5; 26-SEP-2011 17:53:22; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;50069
6; 6885.0; 26-SEP-2011 18:11:04; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;50070
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2;-1449.2; 26-SEP-2011 19:12:37; Bright; 27.0; 17; 78Bet Gem ; 1.16; 4500;occ; 54; 0;50070
3; -283.9; 26-SEP-2011 19:32:03; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;50070
4; -189.4; 26-SEP-2011 19:33:37; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;50070
5; 871.7; 26-SEP-2011 19:51:18; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;50071
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2; 138.1; 27-SEP-2011 10:41:10; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;50080
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2; 2944.7; 27-SEP-2011 11:27:57; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;50080
3; 3029.6; 27-SEP-2011 11:29:22; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;50080
4; 5532.6; 27-SEP-2011 12:11:05; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;50080
5; 5739.9; 27-SEP-2011 12:14:32; Dark ; 50.0; 88; 31Eta CMA ; 2.45; 20000;occ; 100; 0;50080
6; 5836.1; 27-SEP-2011 12:16:08; Dark ; 48.0; 23; 21Eps CMA ; 1.50; 26000;occ; 96; 0;50080
7; 5947.0; 27-SEP-2011 12:17:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;50080
8; 6069.1; 27-SEP-2011 12:20:01; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;50081
9; 6152.7; 27-SEP-2011 12:21:25; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;50081
10; 6893.5; 27-SEP-2011 12:33:46; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;50081
11; 7555.6; 27-SEP-2011 12:44:48; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;50081
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2; 2944.4; 27-SEP-2011 13:08:11; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;50081
3; 3029.2; 27-SEP-2011 13:09:35; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;50081
4; 5533.4; 27-SEP-2011 13:51:20; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;50081
5; 5740.9; 27-SEP-2011 13:54:47; Dark ; 47.5; 88; 31Eta CMA ; 2.45; 20000;occ; 95; 0;50081
6; 5837.4; 27-SEP-2011 13:56:24; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;50081
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2; 2944.3; 27-SEP-2011 14:48:24; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;50082
3; 3028.8; 27-SEP-2011 14:49:49; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;50082
4; 5534.2; 27-SEP-2011 15:31:34; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;50082

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 3; 5743.0; 27-SEP-2011 17:15:17; Dark ; 47.5; 88; 31Eta CMA ; 2.45; 20000;occ; 95; 0;50083
 4; 5839.9; 27-SEP-2011 17:16:54; Dark ; 65.5; 23; 21Eps CMA ; 1.50; 26000;occ; 131; 0;50083
 5; 6895.9; 27-SEP-2011 17:34:30; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;50084
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 3; 5743.9; 27-SEP-2011 18:55:32; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;50084
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 4; 5842.1; 27-SEP-2011 20:37:24; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;50085
 5; 6897.5; 27-SEP-2011 20:55:00; Dark ; 23.5; 157; The1Eri ; 2.91; 9300;occ; 47; 0;50086
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 2; -165.8; 28-SEP-2011 04:58:40; Dark ; 54.5; 23; 21Eps CMA ; 1.50; 26000;occ; 109; 0;50090
 3; 887.1; 28-SEP-2011 05:16:13; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;50091
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 3; 5751.8; 28-SEP-2011 08:17:32; Dark ; 47.5; 88; 31Eta CMA ; 2.45; 20000;occ; 95; 0;50092
 4; 5850.6; 28-SEP-2011 08:19:11; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;50092
 5; 6902.7; 28-SEP-2011 08:36:43; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;50093
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 2; -261.0; 28-SEP-2011 09:57:47; Dark ; 49.0; 88; 31Eta CMA ; 2.45; 20000;occ; 98; 0;50093
 3; -162.1; 28-SEP-2011 09:59:26; Dark ; 61.0; 23; 21Eps CMA ; 1.50; 26000;occ; 122; 0;50093
 4; 889.5; 28-SEP-2011 10:16:57; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;50094
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 1; 2940.9; 28-SEP-2011 10:51:09; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;50094
 2; 3023.7; 28-SEP-2011 10:52:31; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;50094
 3; 5754.0; 28-SEP-2011 11:38:02; Dark ; 49.0; 88; 31Eta CMA ; 2.45; 20000;occ; 98; 0;50094
 4; 5853.1; 28-SEP-2011 11:39:41; Dark ; 57.0; 23; 21Eps CMA ; 1.50; 26000;occ; 114; 0;50094
 5; 6904.2; 28-SEP-2011 11:57:12; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;50095
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 2; -258.9; 28-SEP-2011 13:18:17; Dark ; 49.0; 88; 31Eta CMA ; 2.45; 20000;occ; 98; 0;50095
 3; -159.6; 28-SEP-2011 13:19:56; Dark ; 54.5; 23; 21Eps CMA ; 1.50; 26000;occ; 109; 0;50095
 4; 891.1; 28-SEP-2011 13:37:27; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;50096
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 2; -257.9; 28-SEP-2011 14:58:32; Dark ; 46.0; 88; 31Eta CMA ; 2.45; 20000;occ; 92; 0;50096
 3; -158.6; 28-SEP-2011 15:00:11; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;50096
 4; 891.7; 28-SEP-2011 15:17:41; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;50097
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 1; 1544.0; 28-SEP-2011 15:28:34; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;50097
 2; 2176.3; 28-SEP-2011 15:39:06; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;50097
 3; 2426.2; 28-SEP-2011 15:43:16; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;50097

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4; 3022.5; 28-SEP-2011 15:53:12; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;50097
5; 5757.1; 28-SEP-2011 16:38:47; Dark ; 49.0; 88; 31Eta CMA ; 2.45; 20000;occ; 98; 0;50097
6; 5856.7; 28-SEP-2011 16:40:26; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;50097
7; 6906.4; 28-SEP-2011 16:57:56; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;50098
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2; -256.0; 28-SEP-2011 18:19:02; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;50098
3; -156.2; 28-SEP-2011 18:20:41; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;50098
4; 68.2; 28-SEP-2011 18:24:26; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;50099
5; 152.0; 28-SEP-2011 18:25:50; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;50099
6; 893.2; 28-SEP-2011 18:38:11; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;50099
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2; -254.9; 28-SEP-2011 19:59:17; Dark ; 52.0; 88; 31Eta CMA ; 2.45; 20000;occ; 104; 0;50099
3; -154.9; 28-SEP-2011 20:00:57; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;50099
4; 68.9; 28-SEP-2011 20:04:40; Dark ; 50.5; 161; Tau Pup ; 2.93; 4500;occ; 101; 0;50100
5; 152.6; 28-SEP-2011 20:06:04; Dark ; 59.0; 2; Alp Car ; -0.74; 7000;occ; 118; 0;50100
6; 894.0; 28-SEP-2011 20:18:26; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;50100
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2; 155.6; 29-SEP-2011 02:47:03; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;50104
3; 897.0; 29-SEP-2011 02:59:24; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;50104
4; 2652.5; 29-SEP-2011 03:28:40; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;50104
5; 3019.6; 29-SEP-2011 03:34:47; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;50104
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2; -147.5; 29-SEP-2011 06:02:28; Dark ; 60.0; 23; 21Eps CMA ; 1.50; 26000;occ; 120; 0;50105
3; 898.5; 29-SEP-2011 06:19:54; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;50106
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2; 2642.8; 30-SEP-2011 02:51:45; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;50118
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