

# GOMOS Daily Report 13-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	15SEP2011 07:00:25
Data source version	GOMOS/6.01
Start time of products	13SEP2011 00:00:51
Stop time of products	13SEP2011 00:42:02
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)

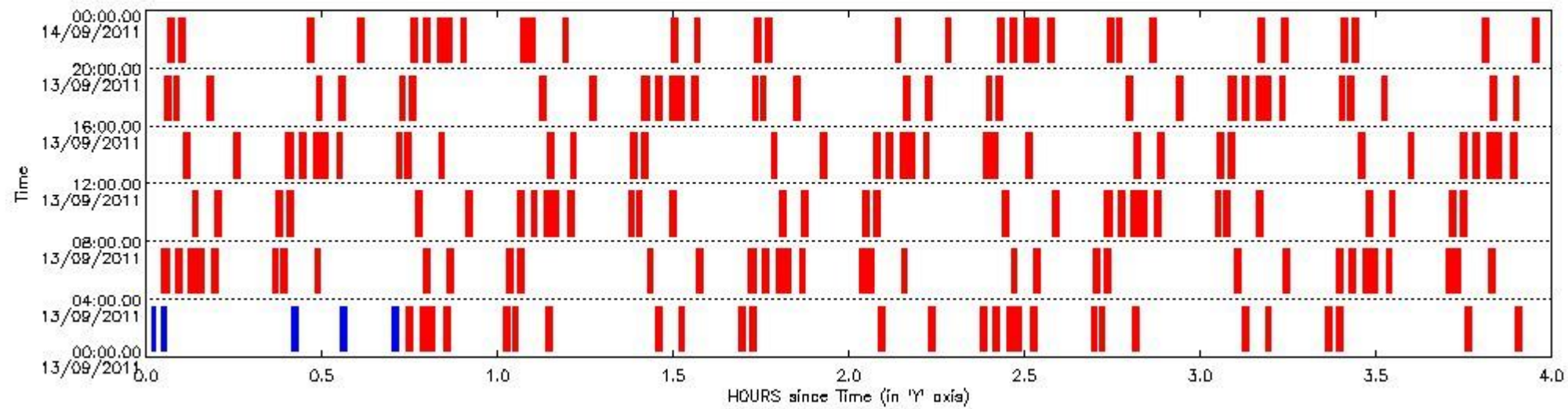
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
13-SEP-2011 00:44:25	21EpsCMa	23	49872
13-SEP-2011 00:46:45	1ZetCMa	177	49872
13-SEP-2011 00:48:11	DSA1059	0	49872
13-SEP-2011 00:50:46	AlpCar	2	49872
13-SEP-2011 01:01:03	AlpHyi	143	49873
13-SEP-2011 01:02:28	AlpEri	9	49873
13-SEP-2011 01:08:13	AlpPhe	84	49873
13-SEP-2011 01:26:57	54AlpPeg	90	49873
13-SEP-2011 01:30:51	53BetPeg	93	49873
13-SEP-2011 01:41:09	11BetCas	74	49873
13-SEP-2011 01:42:59	27GamCas	76	49873
13-SEP-2011 02:05:01	66AlpGem	24	49873
13-SEP-2011 02:13:30	10AlpCMi	8	49873
13-SEP-2011 02:22:21	9AlpCMa	1	49873
13-SEP-2011 02:24:40	21EpsCMa	23	49873

13-SEP-2011 02:27:00	1ZetCMa	177	49873
13-SEP-2011 02:28:26	DSA1059	0	49873
13-SEP-2011 02:31:01	AlpCar	2	49873
13-SEP-2011 02:41:18	AlpHyi	143	49874
13-SEP-2011 02:42:42	AlpEri	9	49874
13-SEP-2011 02:48:27	AlpPhe	84	49874
13-SEP-2011 03:07:11	54AlpPeg	90	49874
13-SEP-2011 03:11:04	53BetPeg	93	49874
13-SEP-2011 03:21:22	11BetCas	74	49874
13-SEP-2011 03:23:12	27GamCas	76	49874
13-SEP-2011 03:45:15	66AlpGem	24	49874
13-SEP-2011 03:53:45	10AlpCMi	8	49874
13-SEP-2011 04:02:36	9AlpCMa	1	49874
13-SEP-2011 04:04:55	21EpsCMa	23	49874
13-SEP-2011 04:07:15	1ZetCMa	177	49874
13-SEP-2011 04:08:40	DSA1059	0	49874
13-SEP-2011 04:11:16	AlpCar	2	49874
13-SEP-2011 04:21:32	AlpHyi	143	49875
13-SEP-2011 04:22:57	AlpEri	9	49875
13-SEP-2011 04:28:42	AlpPhe	84	49875
13-SEP-2011 04:47:25	54AlpPeg	90	49875
13-SEP-2011 04:51:18	53BetPeg	93	49875
13-SEP-2011 05:01:36	11BetCas	74	49875
13-SEP-2011 05:03:25	27GamCas	76	49875
13-SEP-2011 05:25:29	66AlpGem	24	49875
13-SEP-2011 05:33:59	10AlpCMi	8	49875
13-SEP-2011 05:42:51	9AlpCMa	1	49875
13-SEP-2011 05:45:10	21EpsCMa	23	49875
13-SEP-2011 05:47:30	1ZetCMa	177	49875
13-SEP-2011 05:48:55	DSA1059	0	49875
13-SEP-2011 05:51:30	AlpCar	2	49875
13-SEP-2011 06:01:47	AlpHyi	143	49876
13-SEP-2011 06:03:11	AlpEri	9	49876
13-SEP-2011 06:08:56	AlpPhe	84	49876
13-SEP-2011 06:27:38	54AlpPeg	90	49876
13-SEP-2011 06:31:32	53BetPeg	93	49876
13-SEP-2011 06:41:49	11BetCas	74	49876
13-SEP-2011 06:43:39	27GamCas	76	49876
13-SEP-2011 07:05:43	66AlpGem	24	49876
13-SEP-2011 07:14:14	10AlpCMi	8	49876
13-SEP-2011 07:23:06	9AlpCMa	1	49876
13-SEP-2011 07:25:24	21EpsCMa	23	49876
13-SEP-2011 07:27:45	1ZetCMa	177	49876
13-SEP-2011 07:29:10	DSA1059	0	49876
13-SEP-2011 07:31:45	AlpCar	2	49876
13-SEP-2011 07:42:01	AlpHyi	143	49877
13-SEP-2011 07:43:26	AlpEri	9	49877
13-SEP-2011 07:49:10	AlpPhe	84	49877
13-SEP-2011 08:07:52	54AlpPeg	90	49877
13-SEP-2011 08:11:45	53BetPeg	93	49877
13-SEP-2011 08:22:03	11BetCas	74	49877
13-SEP-2011 08:23:52	27GamCas	76	49877
13-SEP-2011 08:45:57	66AlpGem	24	49877
13-SEP-2011 08:54:28	10AlpCMi	8	49877
13-SEP-2011 09:03:21	9AlpCMa	1	49877
13-SEP-2011 09:05:39	21EpsCMa	23	49877
13-SEP-2011 09:08:00	1ZetCMa	177	49877
13-SEP-2011 09:09:25	DSA1059	0	49877
13-SEP-2011 09:11:59	AlpCar	2	49877

13-SEP-2011 09:22:16	AlpHyi	143	49878
13-SEP-2011 09:23:40	AlpEri	9	49878
13-SEP-2011 09:29:25	AlpPhe	84	49878
13-SEP-2011 09:48:06	54AlpPeg	90	49878
13-SEP-2011 09:51:59	53BetPeg	93	49878
13-SEP-2011 10:02:16	11BetCas	74	49878
13-SEP-2011 10:04:06	27GamCas	76	49878
13-SEP-2011 10:26:11	66AlpGem	24	49878
13-SEP-2011 10:34:43	10AlpCMi	8	49878
13-SEP-2011 10:43:36	9AlpCMa	1	49878
13-SEP-2011 10:45:54	21EpsCMa	23	49878
13-SEP-2011 10:48:15	1ZetCMa	177	49878
13-SEP-2011 10:49:40	DSA1059	0	49878
13-SEP-2011 10:52:14	AlpCar	2	49878
13-SEP-2011 11:02:30	AlpHyi	143	49879
13-SEP-2011 11:03:55	AlpEri	9	49879
13-SEP-2011 11:09:39	AlpPhe	84	49879
13-SEP-2011 11:28:20	54AlpPeg	90	49879
13-SEP-2011 11:32:13	53BetPeg	93	49879
13-SEP-2011 11:42:30	11BetCas	74	49879
13-SEP-2011 11:44:19	27GamCas	76	49879
13-SEP-2011 12:06:26	66AlpGem	24	49879
13-SEP-2011 12:14:57	10AlpCMi	8	49879
13-SEP-2011 12:23:51	9AlpCMa	1	49879
13-SEP-2011 12:26:09	21EpsCMa	23	49879
13-SEP-2011 12:28:30	1ZetCMa	177	49879
13-SEP-2011 12:29:55	DSA1059	0	49879
13-SEP-2011 12:32:28	AlpCar	2	49879
13-SEP-2011 12:42:45	AlpHyi	143	49880
13-SEP-2011 12:44:09	AlpEri	9	49880
13-SEP-2011 12:49:54	AlpPhe	84	49880
13-SEP-2011 13:08:33	54AlpPeg	90	49880
13-SEP-2011 13:12:27	53BetPeg	93	49880
13-SEP-2011 13:22:43	11BetCas	74	49880
13-SEP-2011 13:24:32	27GamCas	76	49880
13-SEP-2011 13:46:40	66AlpGem	24	49880
13-SEP-2011 13:55:12	10AlpCMi	8	49880
13-SEP-2011 14:04:06	9AlpCMa	1	49880
13-SEP-2011 14:06:23	21EpsCMa	23	49880
13-SEP-2011 14:08:45	1ZetCMa	177	49880
13-SEP-2011 14:10:10	DSA1059	0	49880
13-SEP-2011 14:12:43	AlpCar	2	49880
13-SEP-2011 14:22:59	AlpHyi	143	49881
13-SEP-2011 14:24:24	AlpEri	9	49881
13-SEP-2011 14:30:08	AlpPhe	84	49881
13-SEP-2011 14:48:47	54AlpPeg	90	49881
13-SEP-2011 14:52:40	53BetPeg	93	49881
13-SEP-2011 15:02:57	11BetCas	74	49881
13-SEP-2011 15:04:46	27GamCas	76	49881
13-SEP-2011 15:26:54	66AlpGem	24	49881
13-SEP-2011 15:35:26	10AlpCMi	8	49881
13-SEP-2011 15:44:21	9AlpCMa	1	49881
13-SEP-2011 15:46:38	21EpsCMa	23	49881
13-SEP-2011 15:49:00	1ZetCMa	177	49881
13-SEP-2011 15:50:25	DSA1059	0	49881
13-SEP-2011 15:52:57	AlpCar	2	49882
13-SEP-2011 16:03:13	AlpHyi	143	49882
13-SEP-2011 16:04:38	AlpEri	9	49882
13-SEP-2011 16:10:22	AlpPhe	84	49882

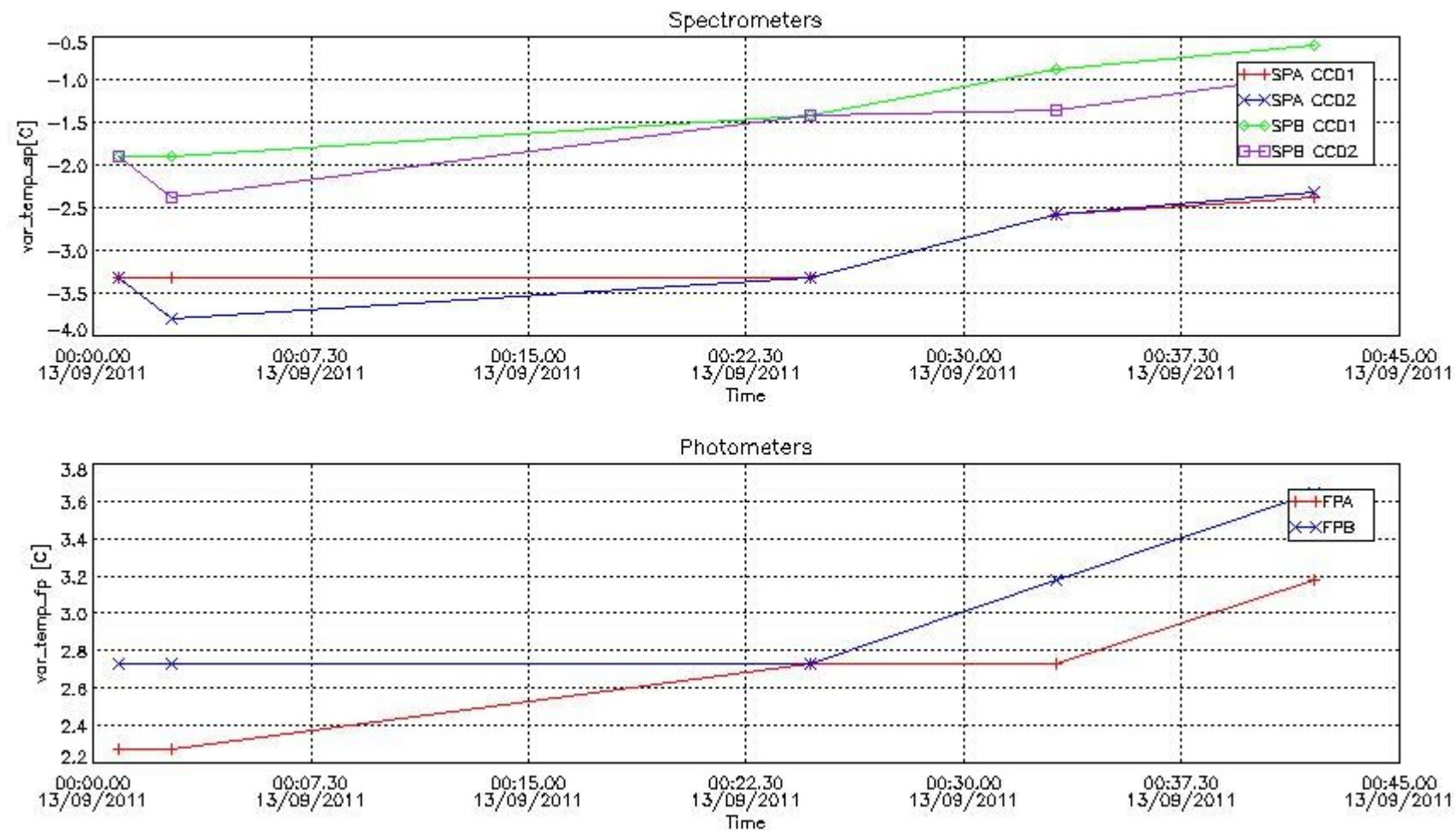
13-SEP-2011 16:29:01	54AlpPeg	90	49882
13-SEP-2011 16:32:54	53BetPeg	93	49882
13-SEP-2011 16:43:10	11BetCas	74	49882
13-SEP-2011 16:44:59	27GamCas	76	49882
13-SEP-2011 17:07:08	66AlpGem	24	49882
13-SEP-2011 17:15:41	10AlpCMi	8	49882
13-SEP-2011 17:24:36	9AlpCMa	1	49882
13-SEP-2011 17:26:53	21EpsCMa	23	49882
13-SEP-2011 17:29:15	1ZetCMa	177	49882
13-SEP-2011 17:30:39	DSA1059	0	49882
13-SEP-2011 17:33:12	AlpCar	2	49883
13-SEP-2011 17:43:28	AlpHyi	143	49883
13-SEP-2011 17:44:53	AlpEri	9	49883
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13-SEP-2011 18:23:24	11BetCas	74	49883
13-SEP-2011 18:25:13	27GamCas	76	49883
13-SEP-2011 18:47:22	66AlpGem	24	49883
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13-SEP-2011 19:09:30	1ZetCMa	177	49883
13-SEP-2011 19:10:54	DSA1059	0	49883
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13-SEP-2011 19:23:42	AlpHyi	143	49884
13-SEP-2011 19:25:07	AlpEri	9	49884
13-SEP-2011 19:30:51	AlpPhe	84	49884
13-SEP-2011 19:49:28	54AlpPeg	90	49884
13-SEP-2011 19:53:21	53BetPeg	93	49884
13-SEP-2011 20:03:37	11BetCas	74	49884
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13-SEP-2011 20:27:36	66AlpGem	24	49884
13-SEP-2011 20:36:09	10AlpCMi	8	49884
13-SEP-2011 20:45:06	9AlpCMa	1	49884
13-SEP-2011 20:47:22	21EpsCMa	23	49884
13-SEP-2011 20:49:45	1ZetCMa	177	49884
13-SEP-2011 20:51:09	DSA1059	0	49884
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13-SEP-2011 21:03:57	AlpHyi	143	49885
13-SEP-2011 21:05:22	AlpEri	9	49885
13-SEP-2011 21:11:06	AlpPhe	84	49885
13-SEP-2011 21:29:42	54AlpPeg	90	49885
13-SEP-2011 21:33:35	53BetPeg	93	49885
13-SEP-2011 21:43:51	11BetCas	74	49885
13-SEP-2011 21:45:39	27GamCas	76	49885
13-SEP-2011 22:07:50	66AlpGem	24	49885
13-SEP-2011 22:16:24	10AlpCMi	8	49885
13-SEP-2011 22:25:21	9AlpCMa	1	49885
13-SEP-2011 22:27:37	21EpsCMa	23	49885
13-SEP-2011 22:30:00	1ZetCMa	177	49885
13-SEP-2011 22:31:24	DSA1059	0	49885
13-SEP-2011 22:33:56	AlpCar	2	49886
13-SEP-2011 22:44:11	AlpHyi	143	49886
13-SEP-2011 22:45:36	AlpEri	9	49886
13-SEP-2011 22:51:20	AlpPhe	84	49886
13-SEP-2011 23:09:56	54AlpPeg	90	49886
13-SEP-2011 23:13:49	53BetPeg	93	49886
13-SEP-2011 23:24:04	11BetCas	74	49886

13-SEP-2011 23:25:53	27GamCas	76	49886
13-SEP-2011 23:48:04	66AlpGem	24	49886
13-SEP-2011 23:56:38	10AlpCmi	8	49886

## 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_1PNPDE20110913_000051_000000383106_00289_49872_6346.N1	13-SEP-2011 00:00:51	Bright	37.500	74	11Bet Cas	2.2680	6600.0	75	49872	No
2	GOM_TRA_1PNPDE20110913_000241_000000413106_00289_49872_6347.N1	13-SEP-2011 00:02:41	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	49872	No
3	GOM_TRA_1PNPDE20110913_002443_000000623106_00289_49872_6348.N1	13-SEP-2011 00:24:43	Bright	62.000	24	66Alp Gem	1.5800	10200.	124	49872	No
4	GOM_TRA_1PNPDE20110913_003312_000000623106_00289_49872_6349.N1	13-SEP-2011 00:33:12	Twilight	61.500	8	10Alp Cmi	0.40000	6500.0	123	49872	No
5	GOM_TRA_1PNPDE20110913_004202_000000593106_00289_49872_6482.N1	13-SEP-2011 00:42:02	Dark	59.000	1	9Alp CMa	-1.4400	11000.	118	49872	No

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



## 4. Overview of dark signal processing per product

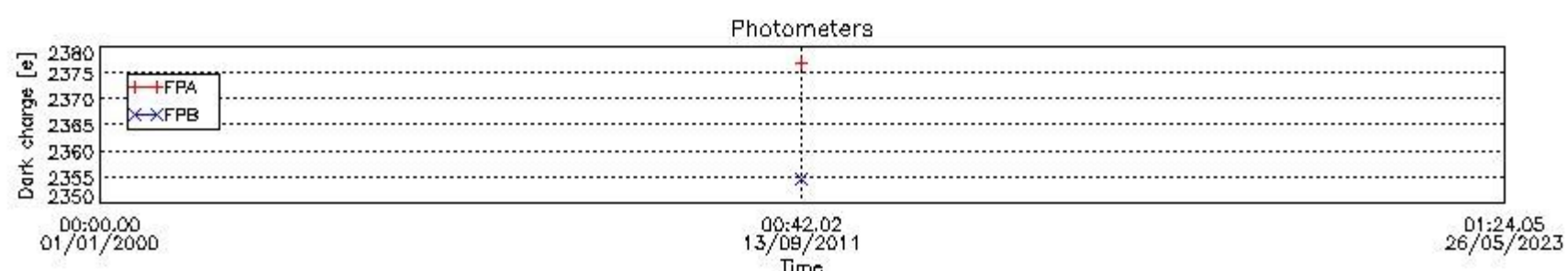
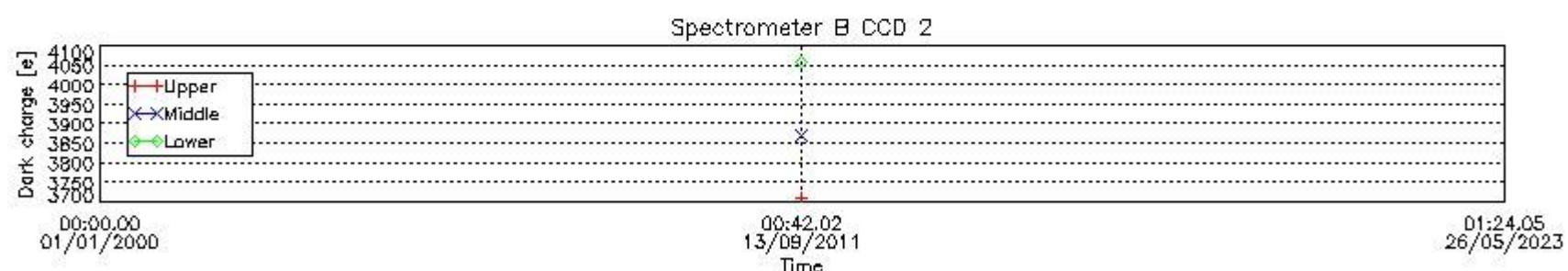
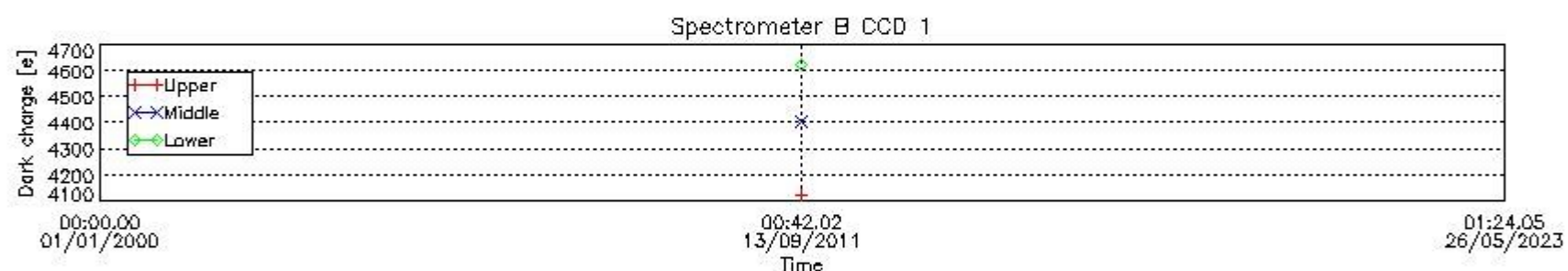
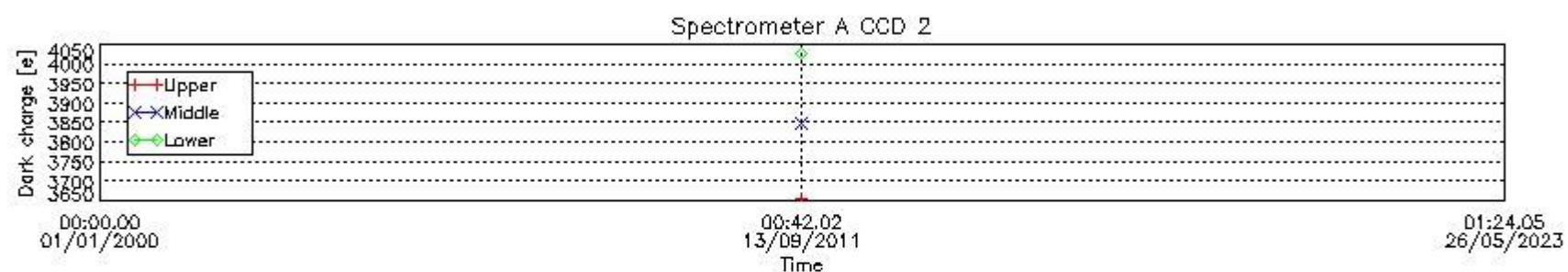
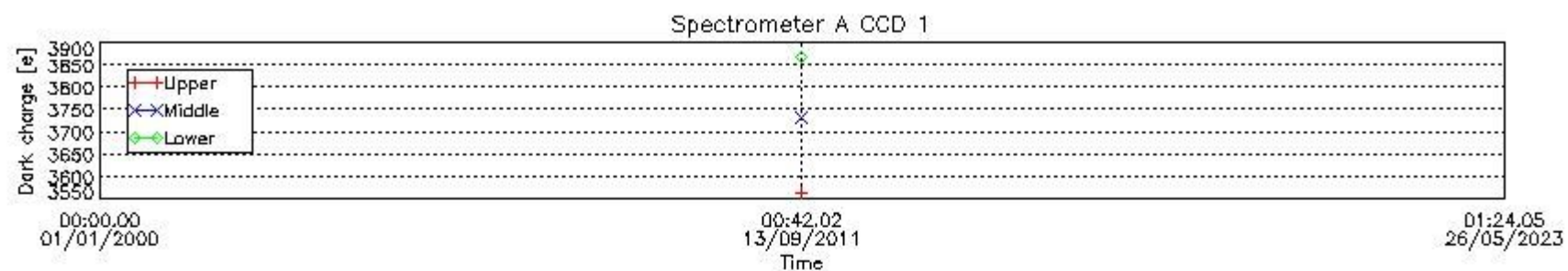
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20110913_004202_000000593106_00289_49872_6482.N1	DC map used

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



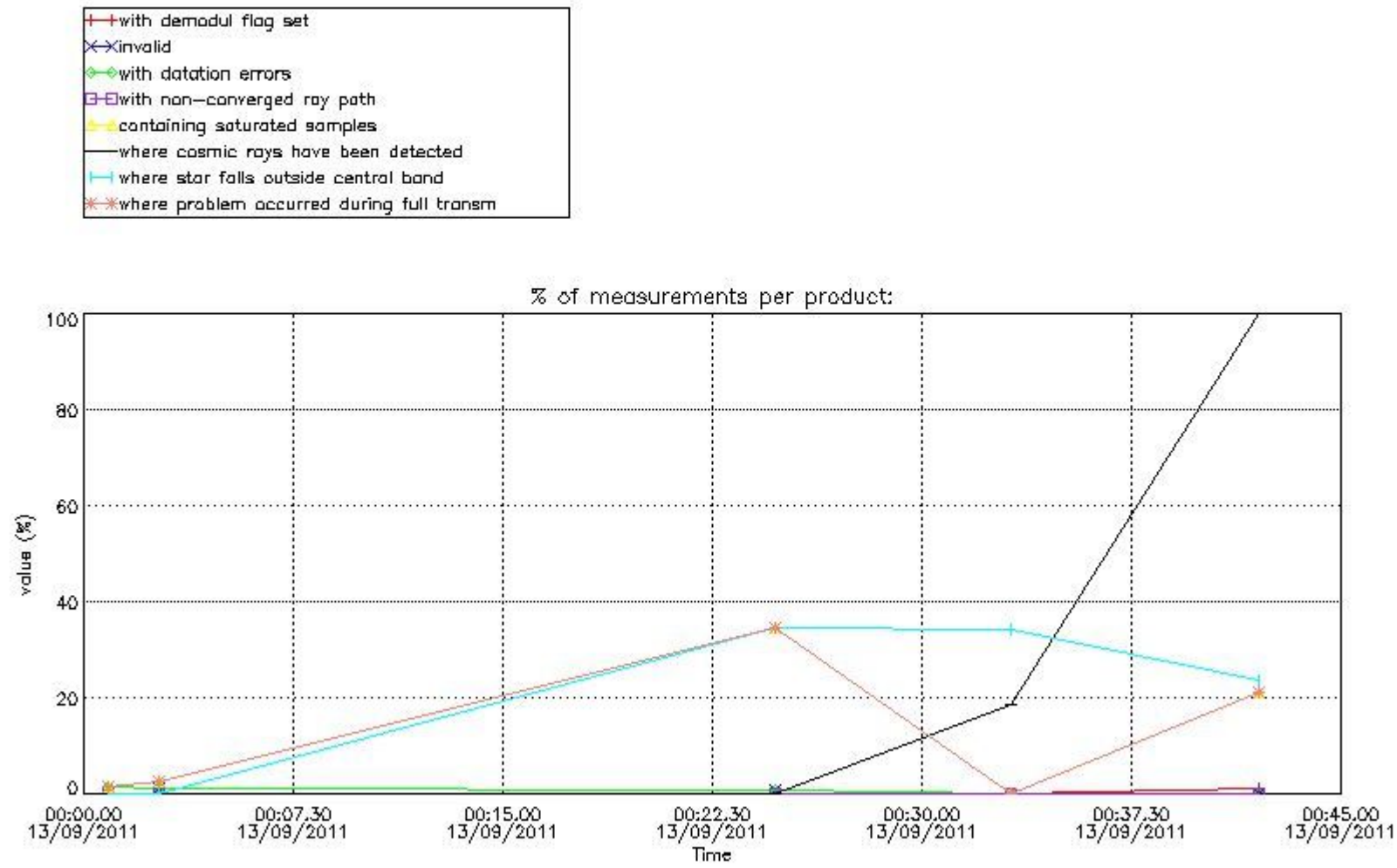
5. Demodulation flag and quality information monitoring

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:

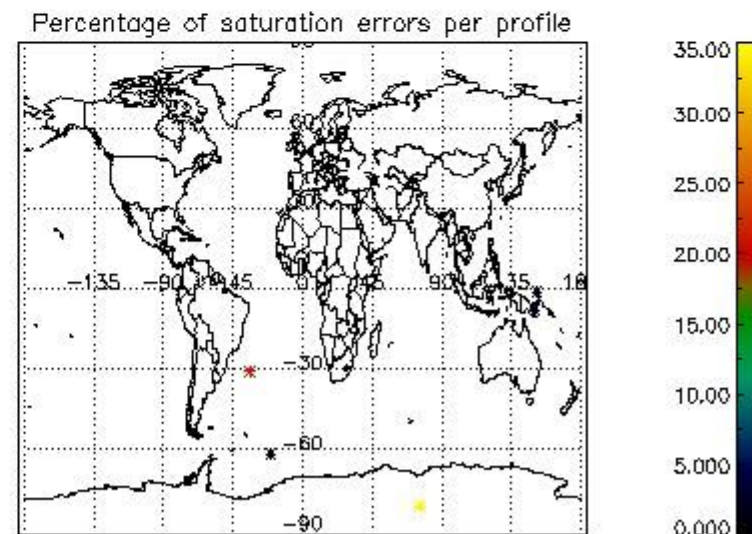
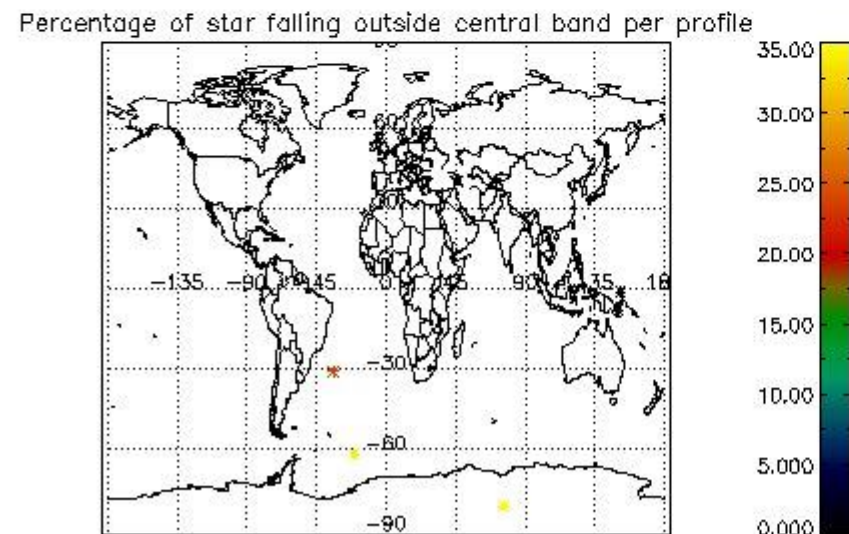
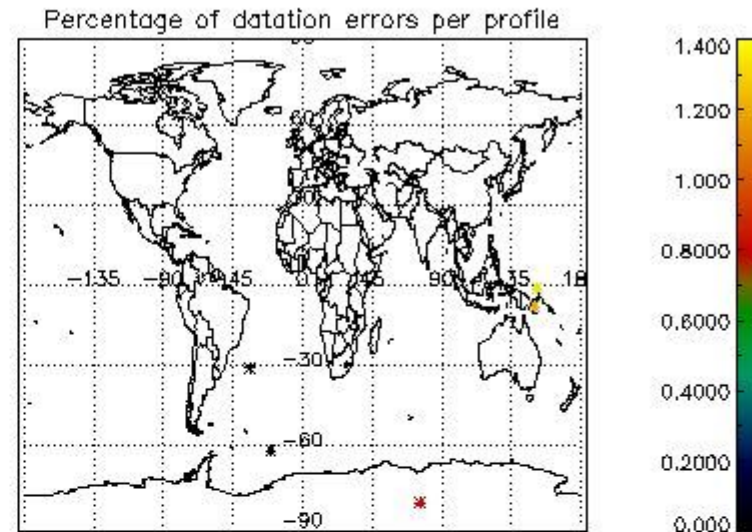
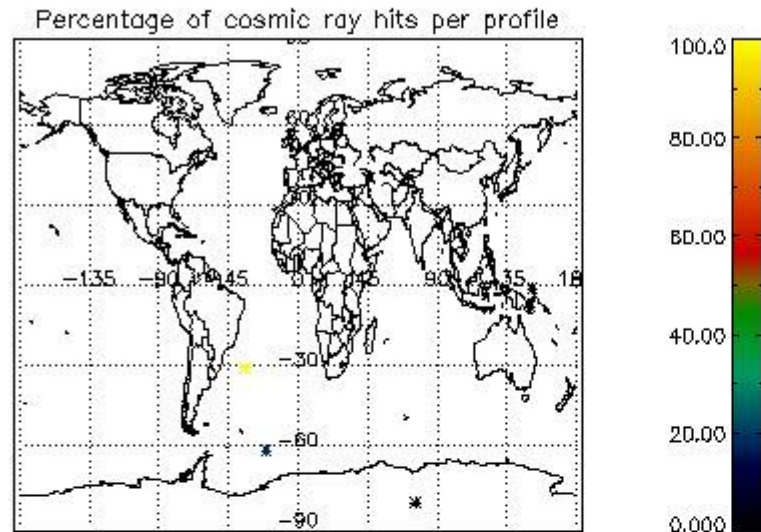
At least one measurement with demodulation flag set:	40.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	60.0000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





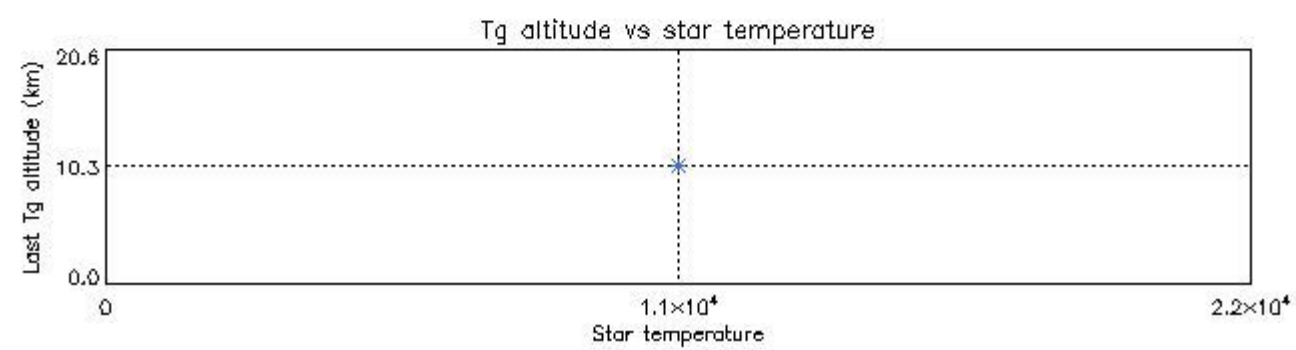
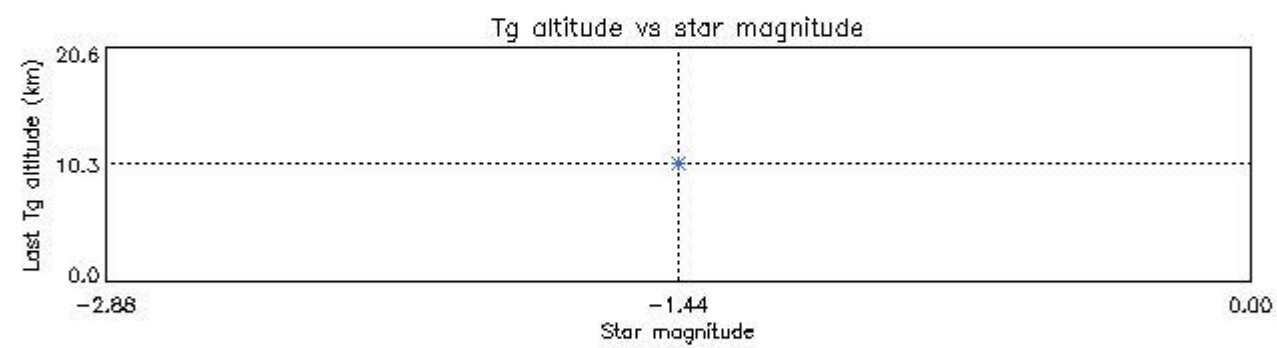
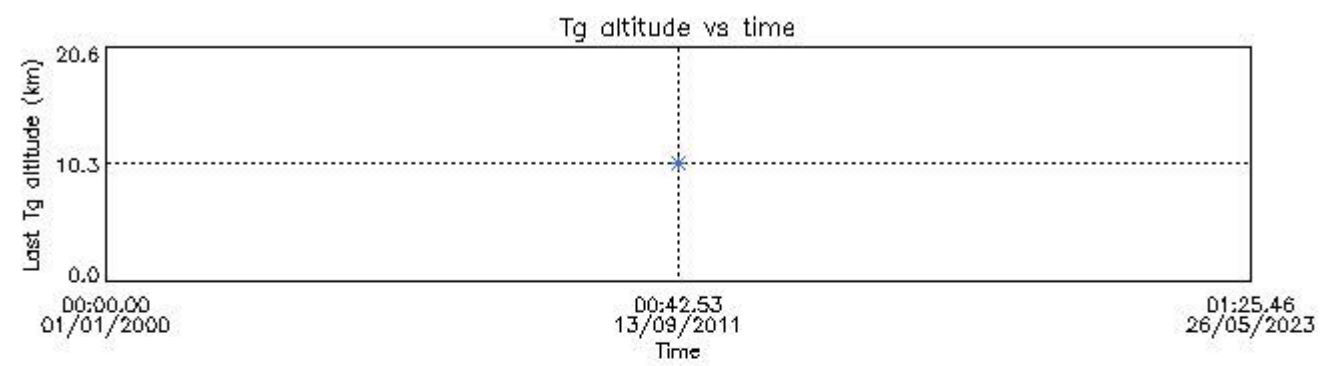
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	10.293	20.297	3.9965
St. deviation:	0.0000	13.974	0.0000
Maximum:	10.293	30.114	3.9965
Minimum:	10.293	4.2976	3.9965
Number of data:	1.0000	3.0000	1.0000

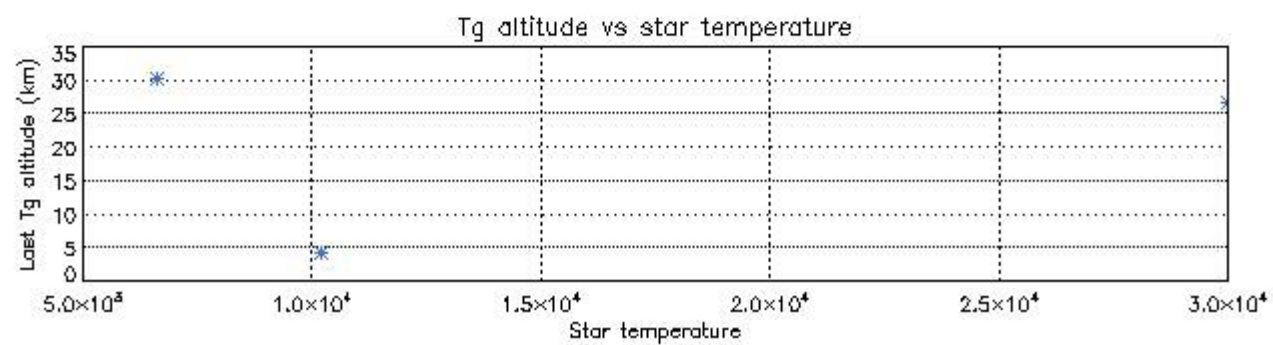
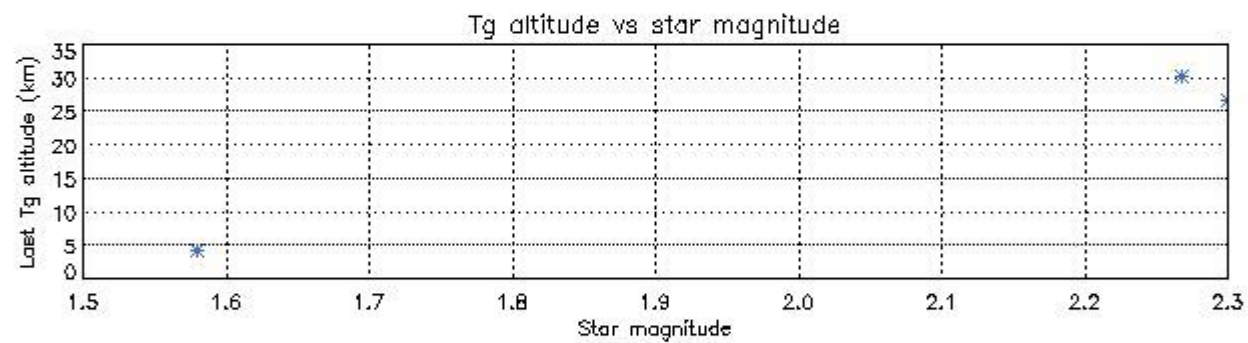
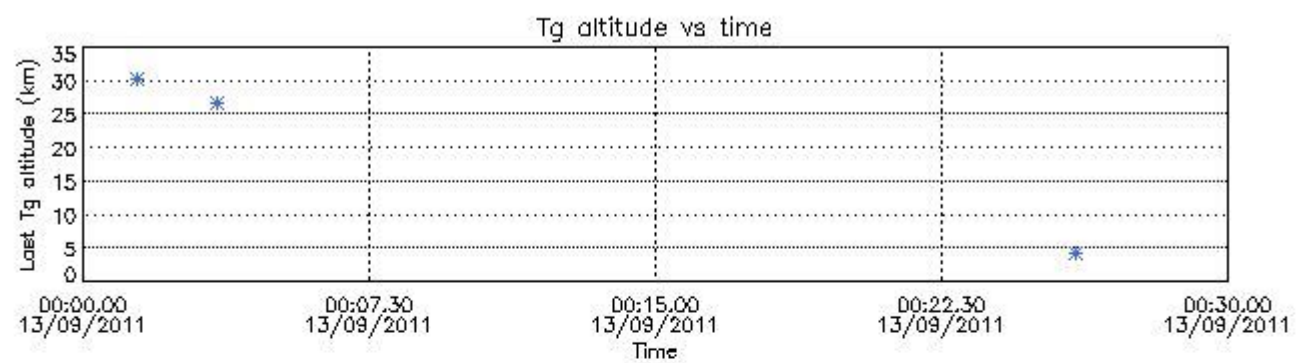
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



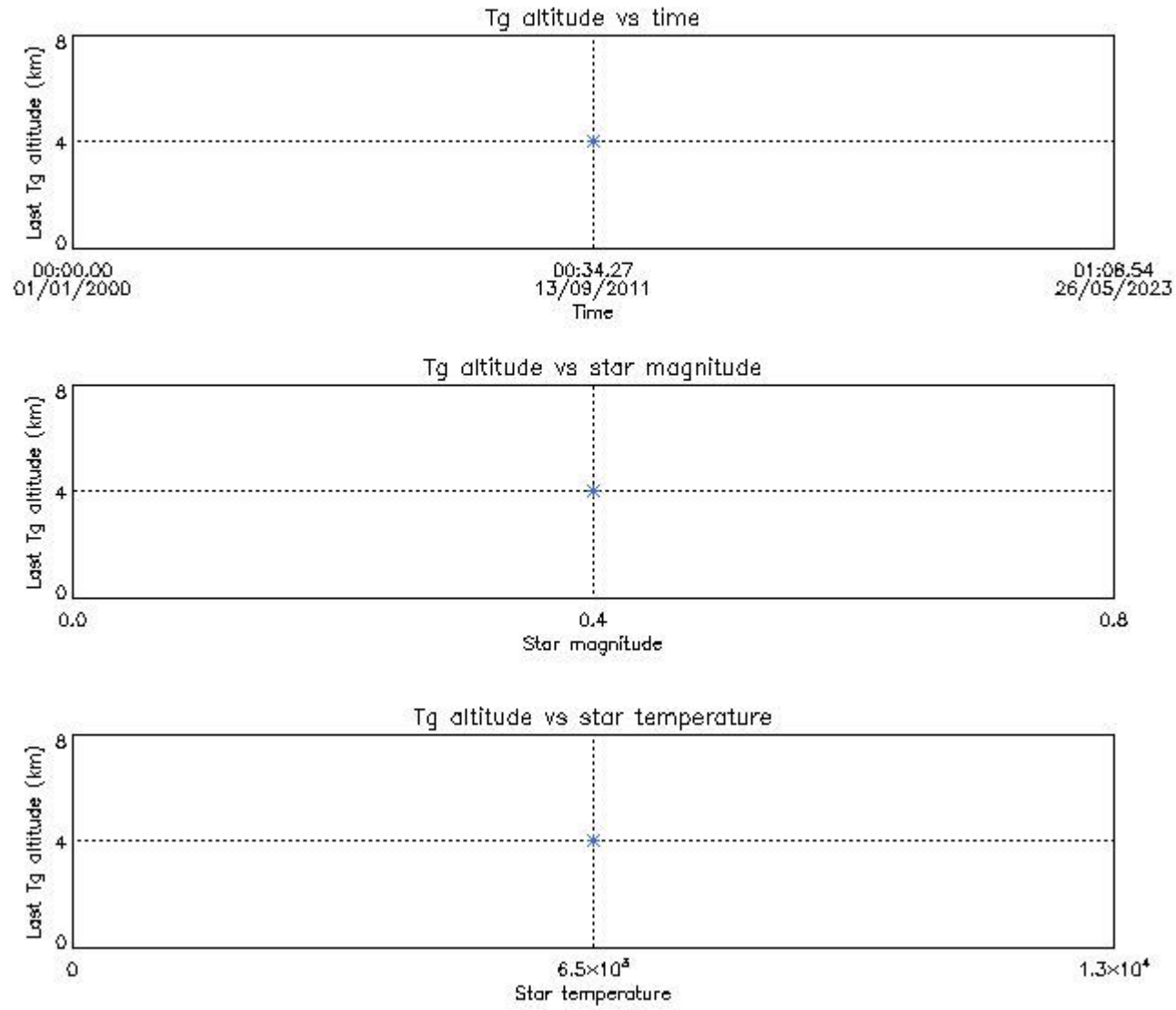
*6.3 Plot for BRIGHT limb products*

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

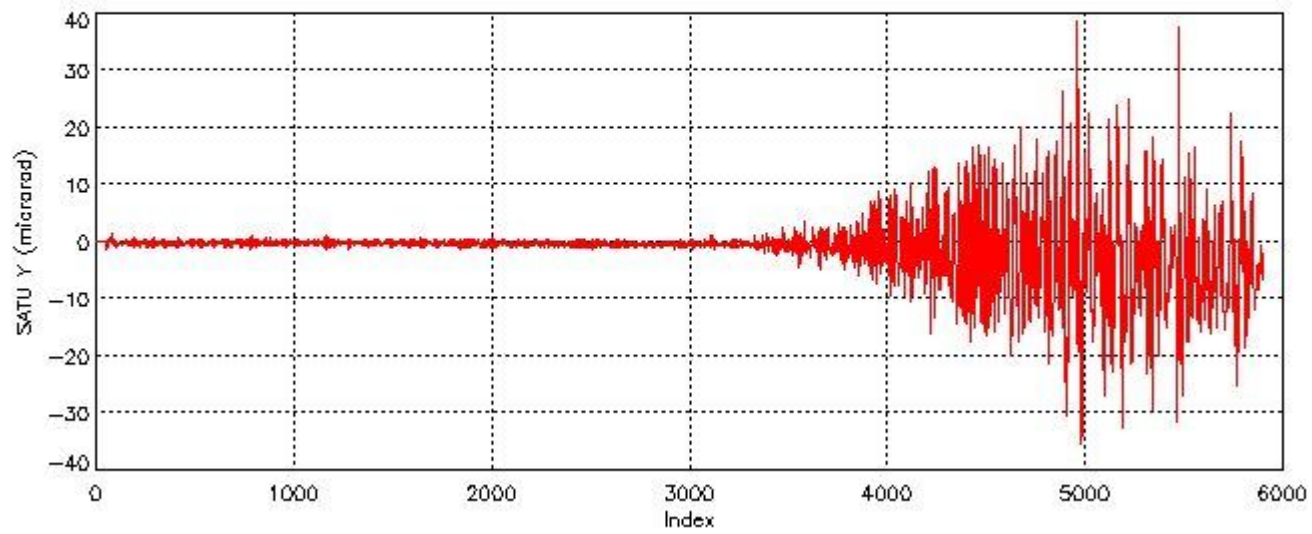
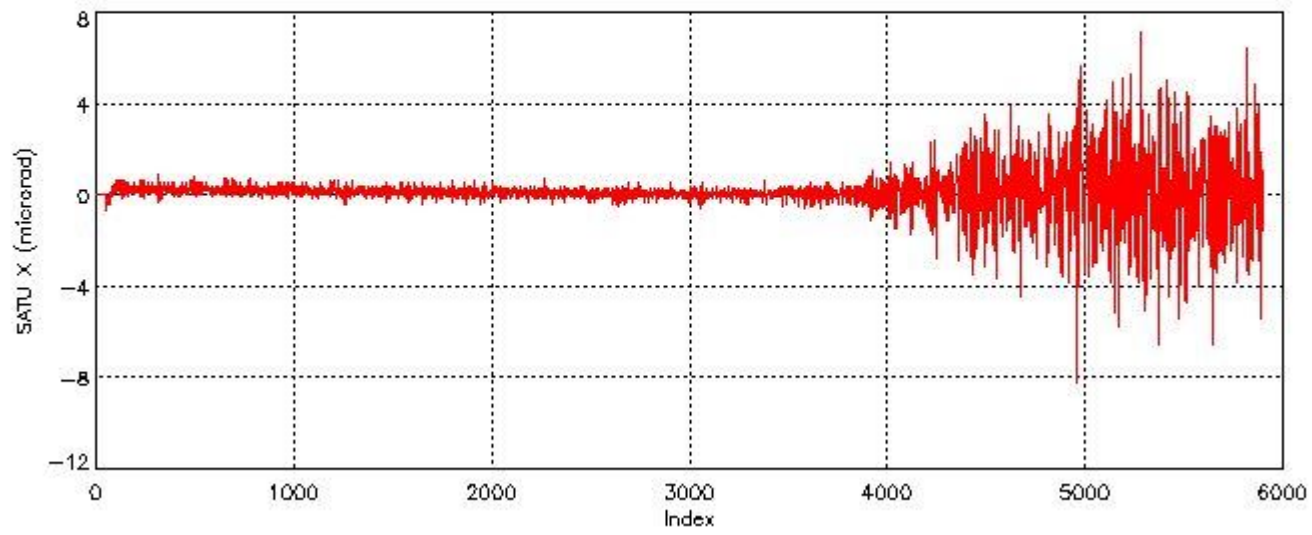


## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



## 7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.20192	-0.25067	0.15341	-0.25658
St. deviation:	0.18335	0.36172	0.64095	0.73363
Maximum:	0.90000	1.30000	3.00000	2.40000
Minimum:	-0.70000	-1.40000	-2.80000	-3.20000

Number of data:	1200.0	1200.0	3050.0	3050.0
90Percentile:	0.40000	0.20000	1.0000	0.70000

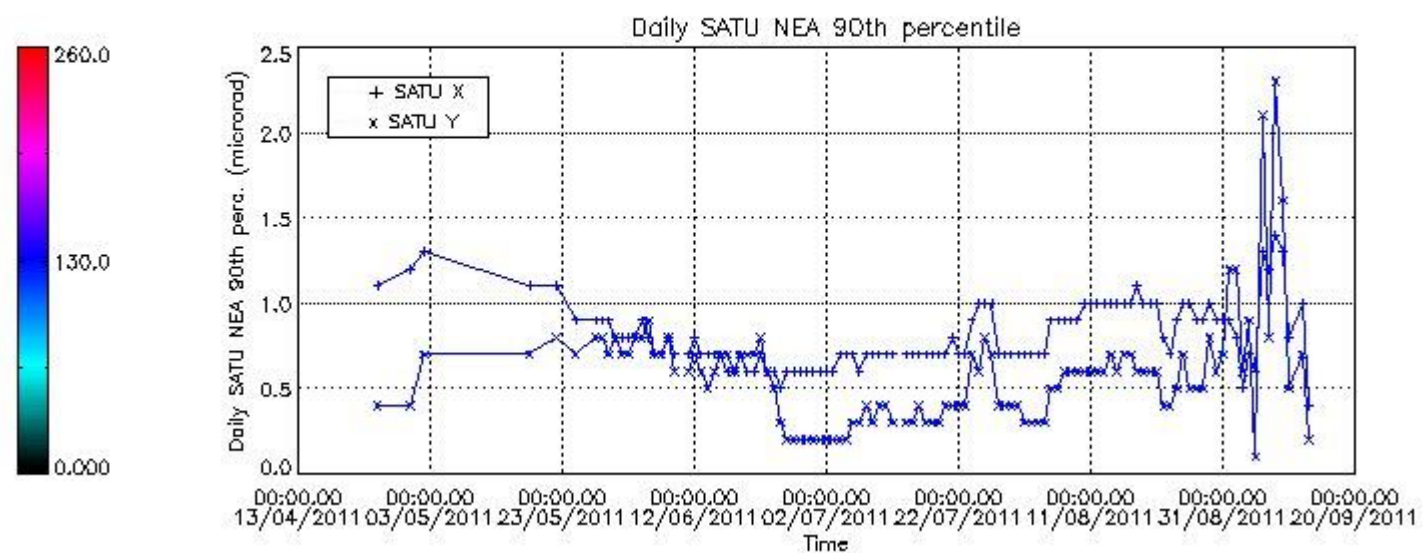
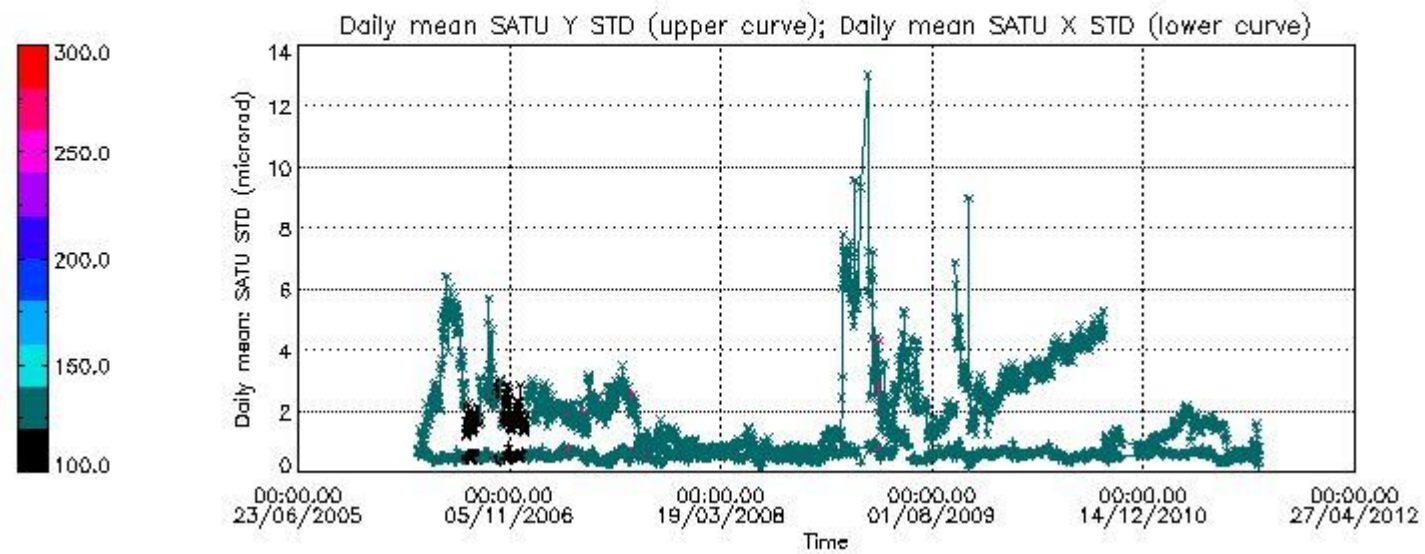
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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

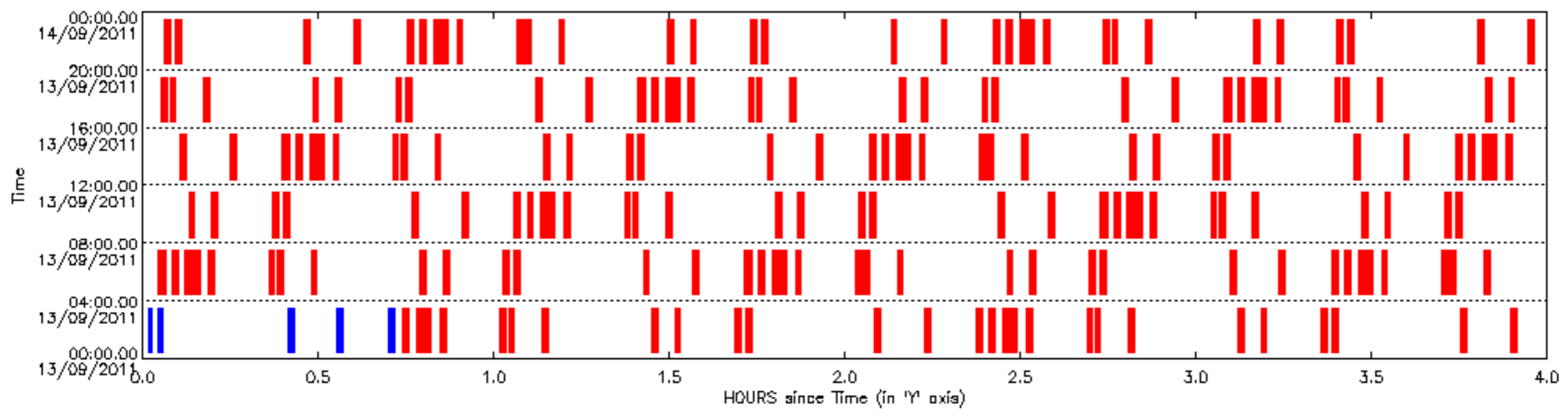
Lower curve: STD of SATU X axis



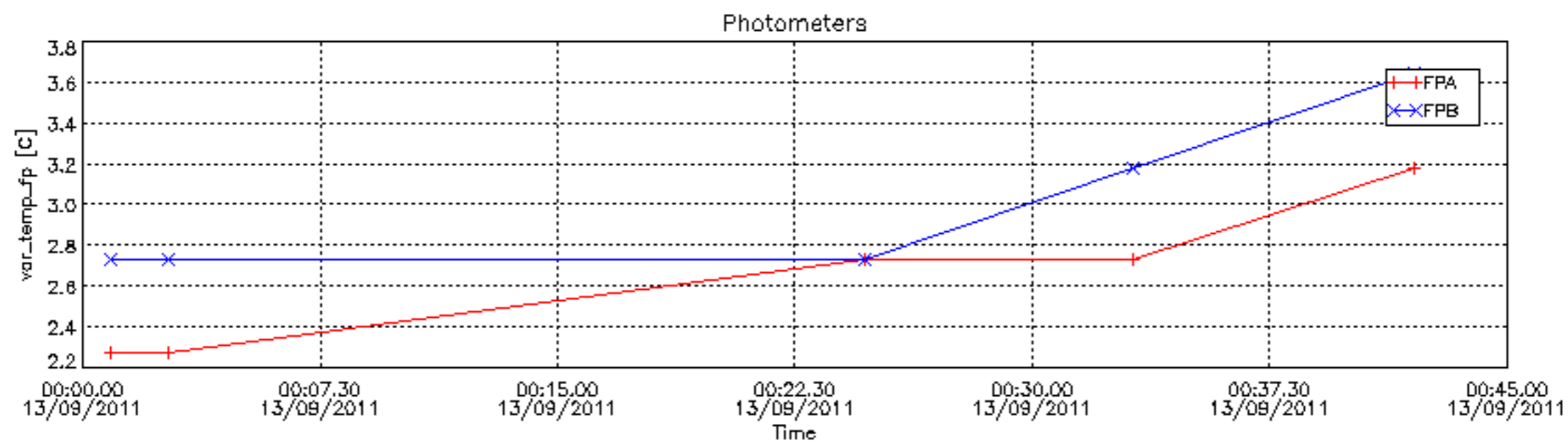
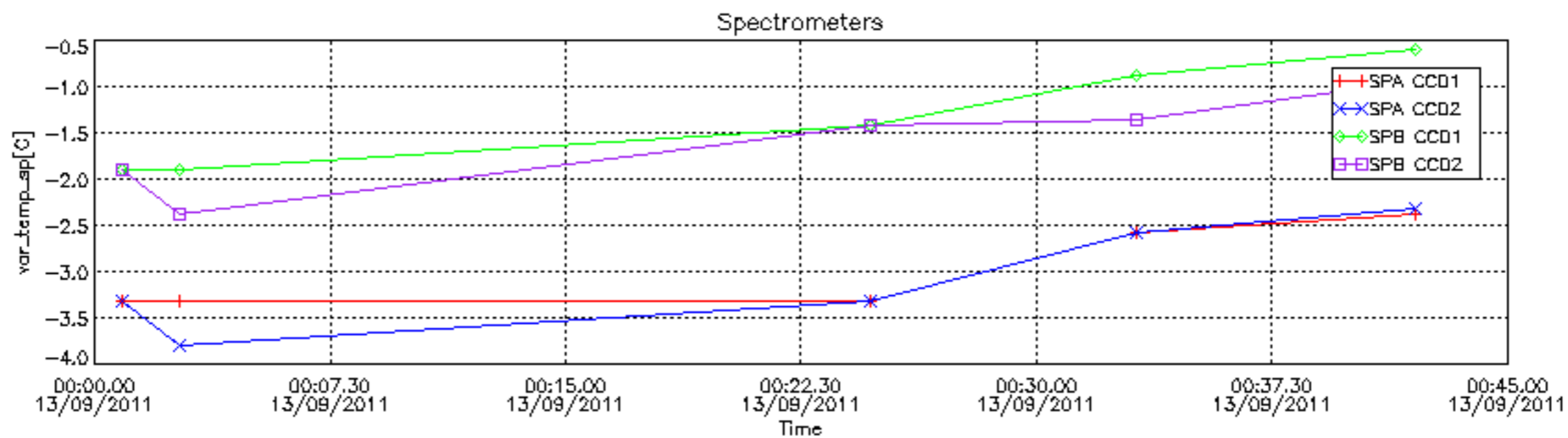
### 8. Auxiliary Data Files used for the production reported in section 2.4

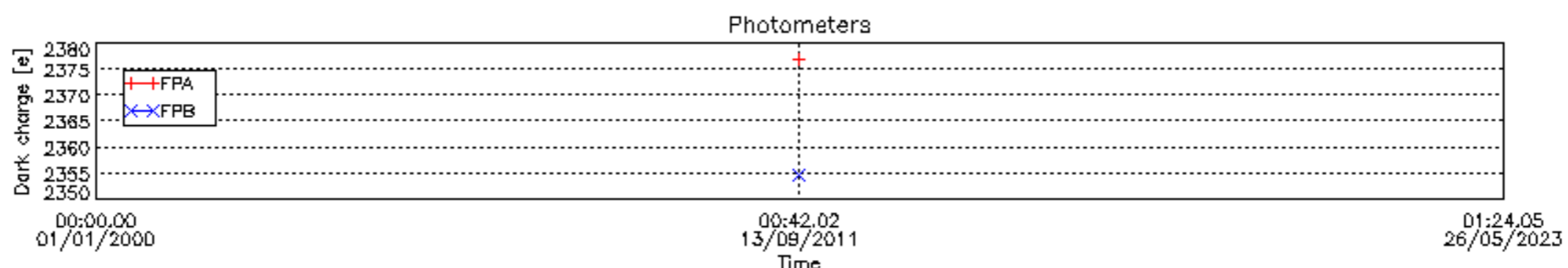
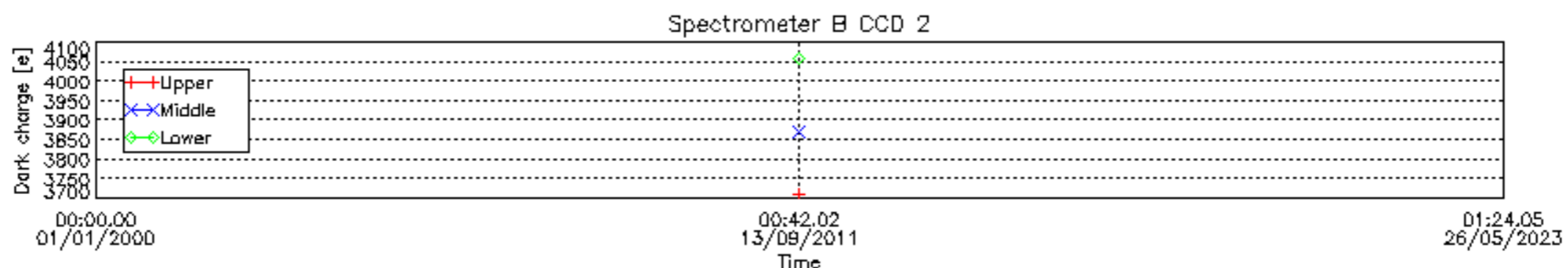
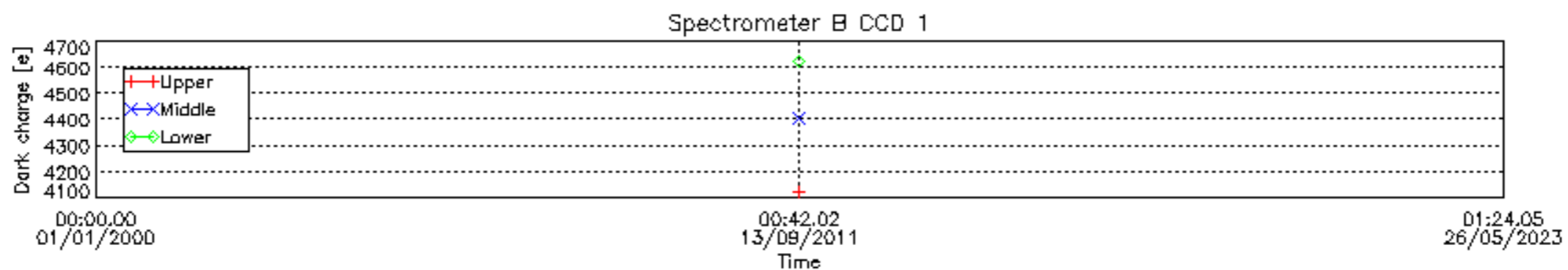
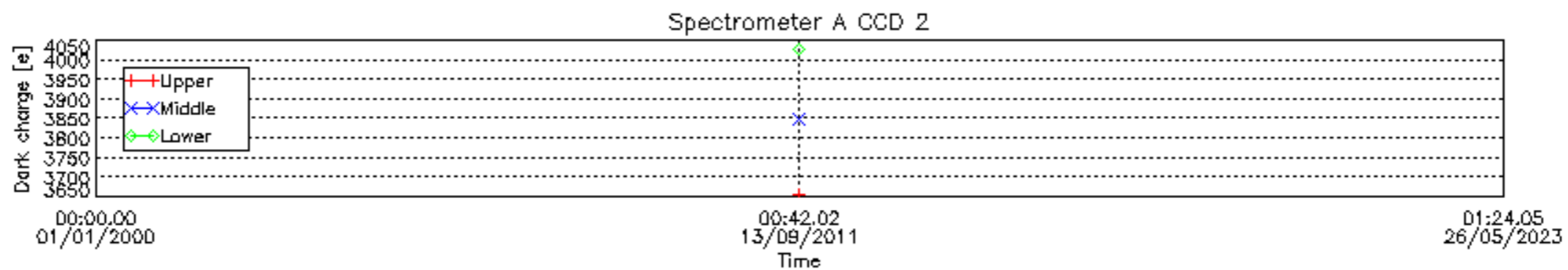
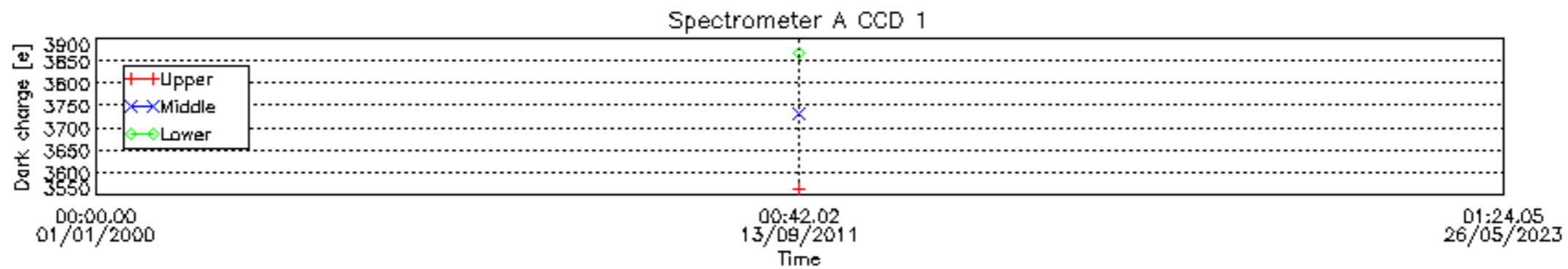
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

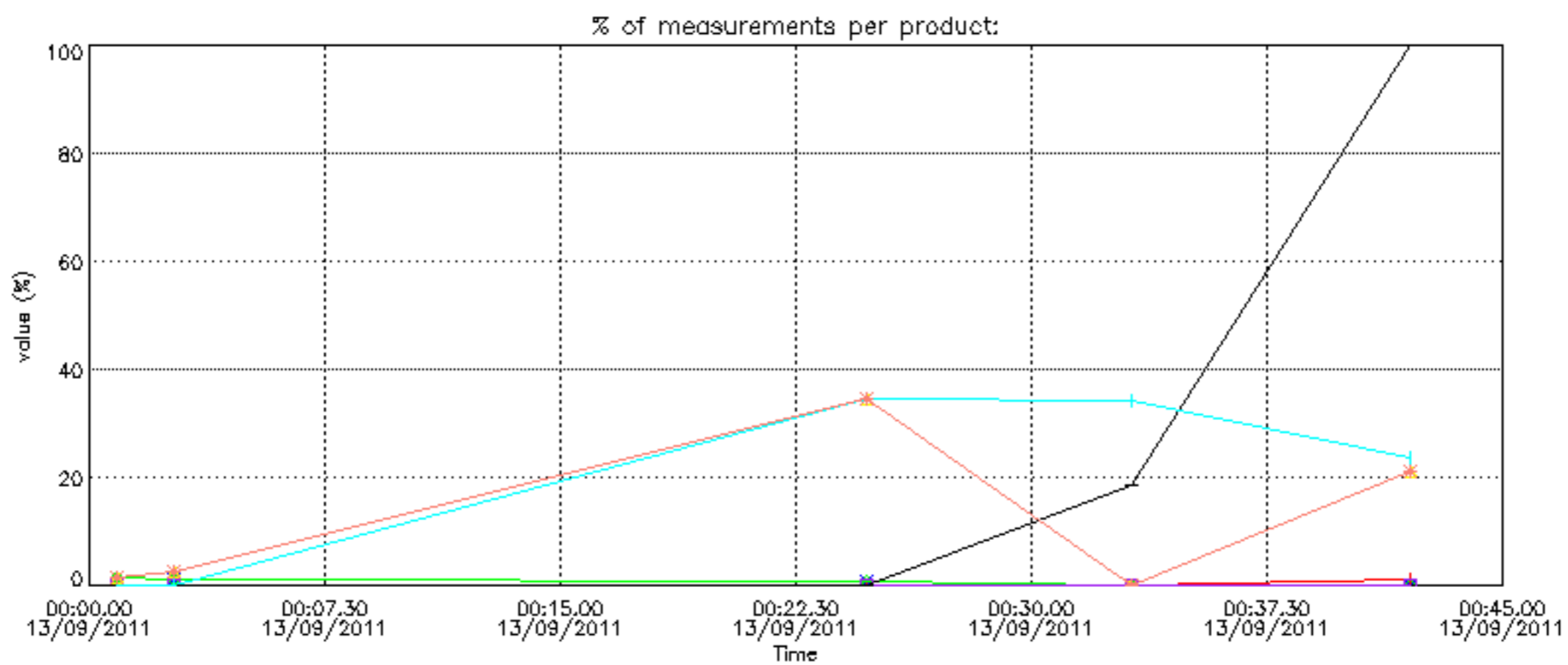
Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110908_133537_20110907_000000_20500101_000000	1	13-SEP-2011 00:00:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	13-SEP-2011 00:00:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-SEP-2011 00:00:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	13-SEP-2011 00:00:51
ECMWF_FILE	AUX_ECF_AXNECM20110912_062115_20110912_210000_20110913_090000	1	13-SEP-2011 00:00:51
OPTIONAL_ECMWF_FILE	MISSING	1	13-SEP-2011 00:00:51
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110912_102114_20110911_184630_20110921_210015	1	13-SEP-2011 00:00:51



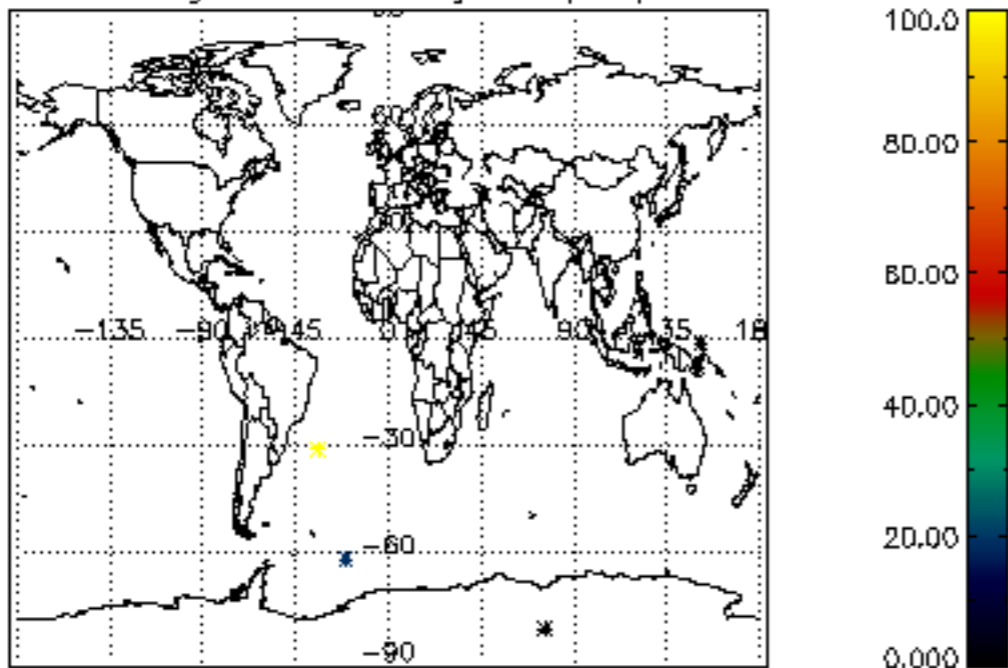




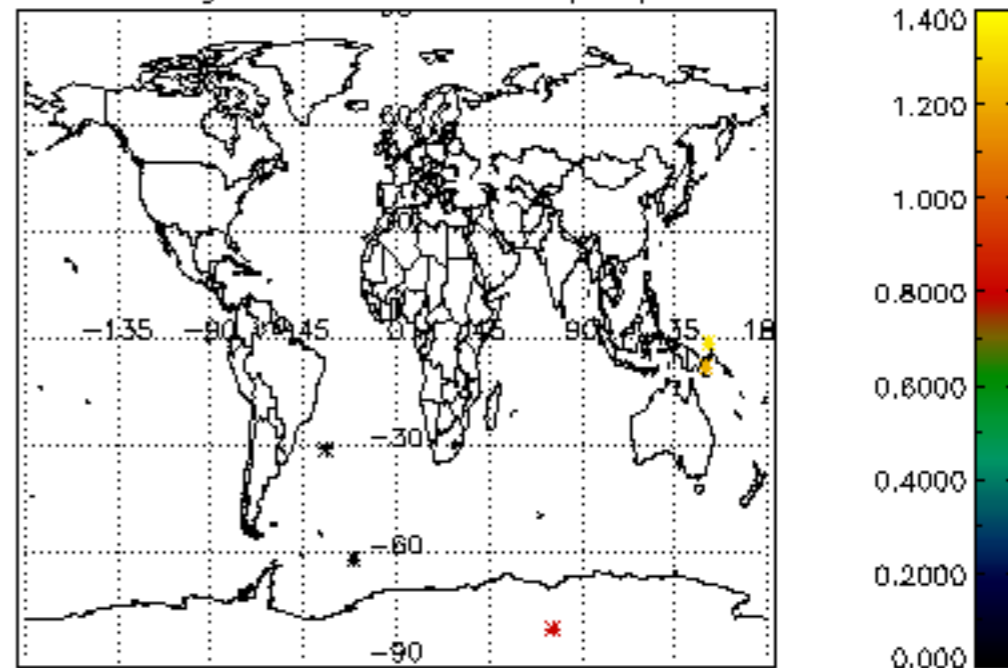




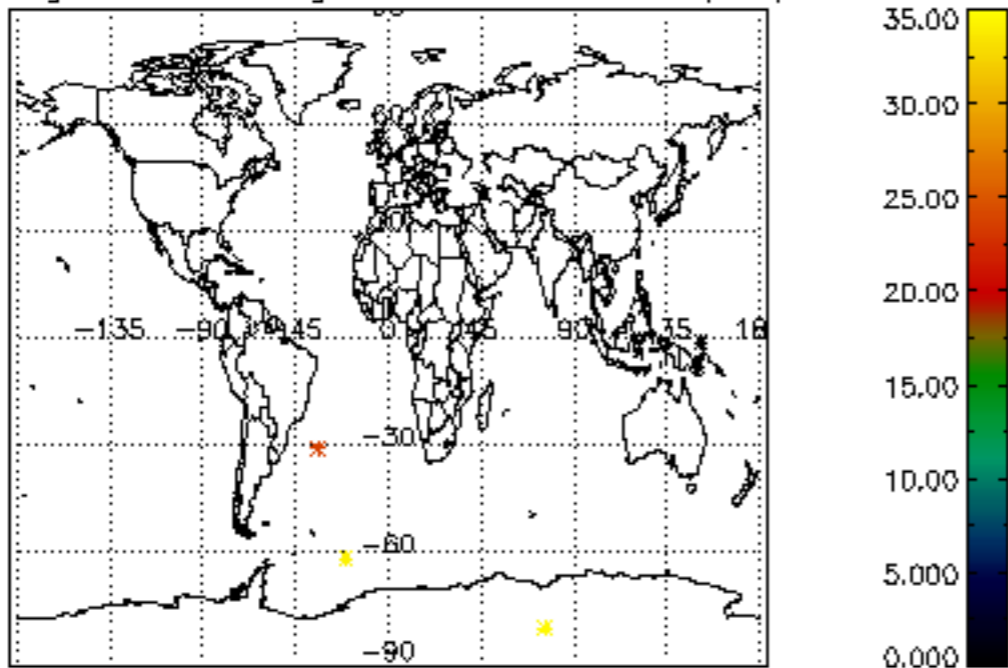
Percentage of cosmic ray hits per profile



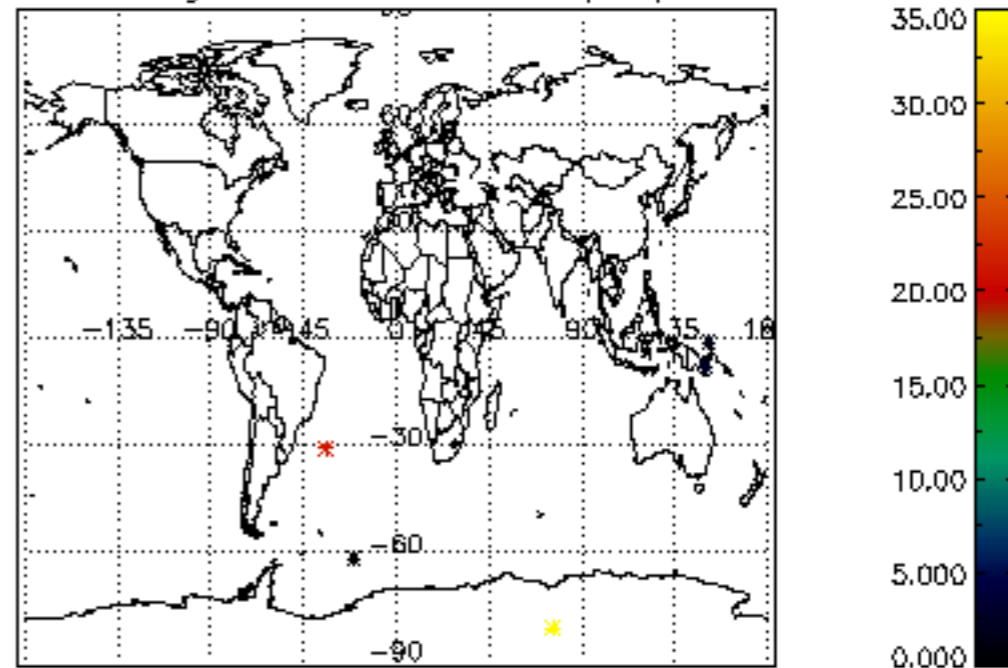
Percentage of datation errors per profile



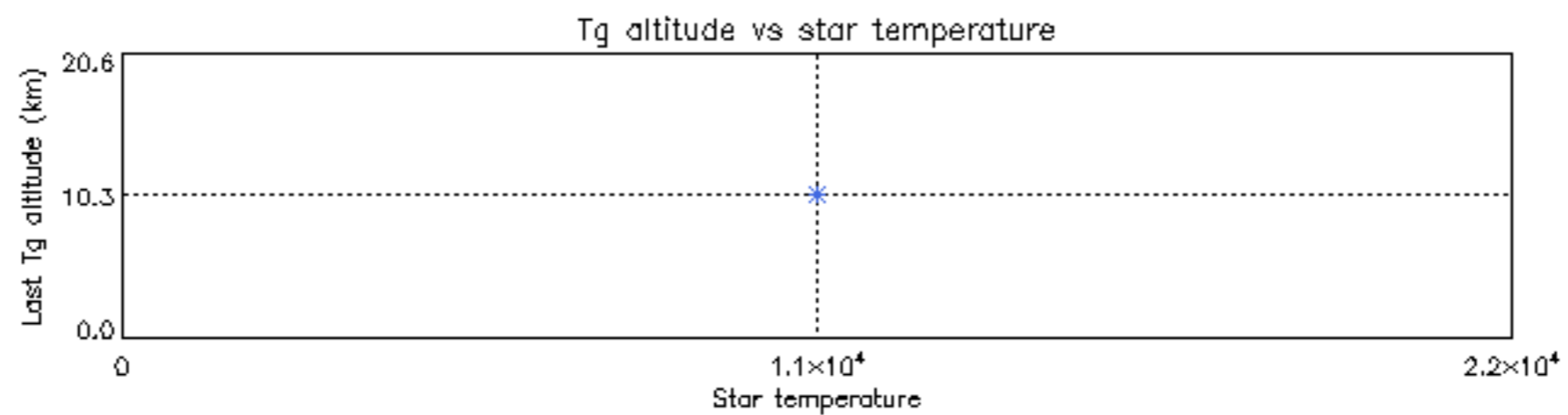
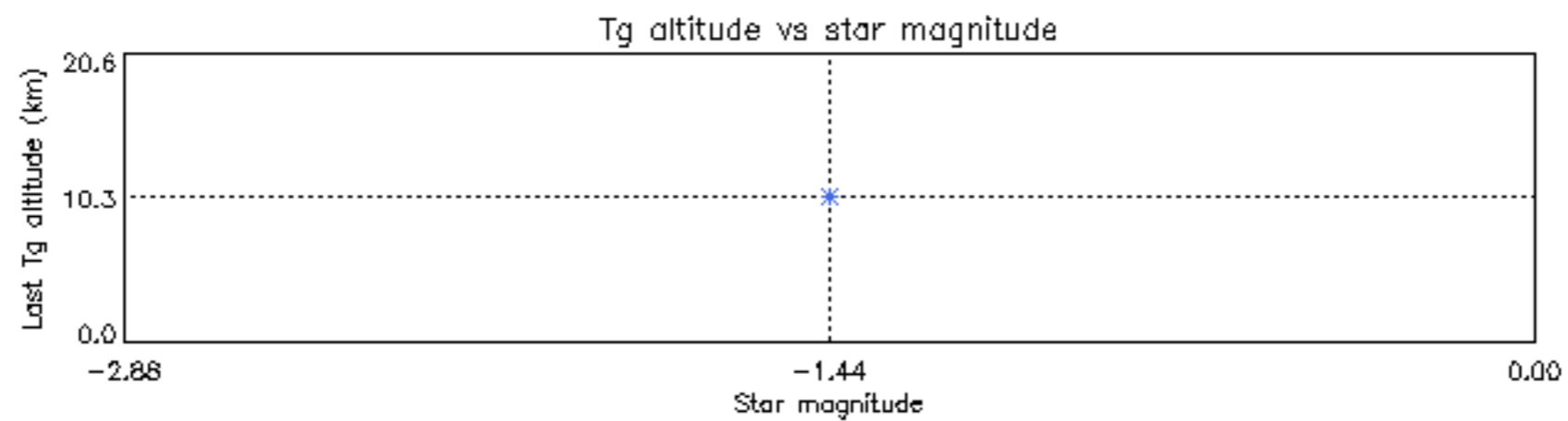
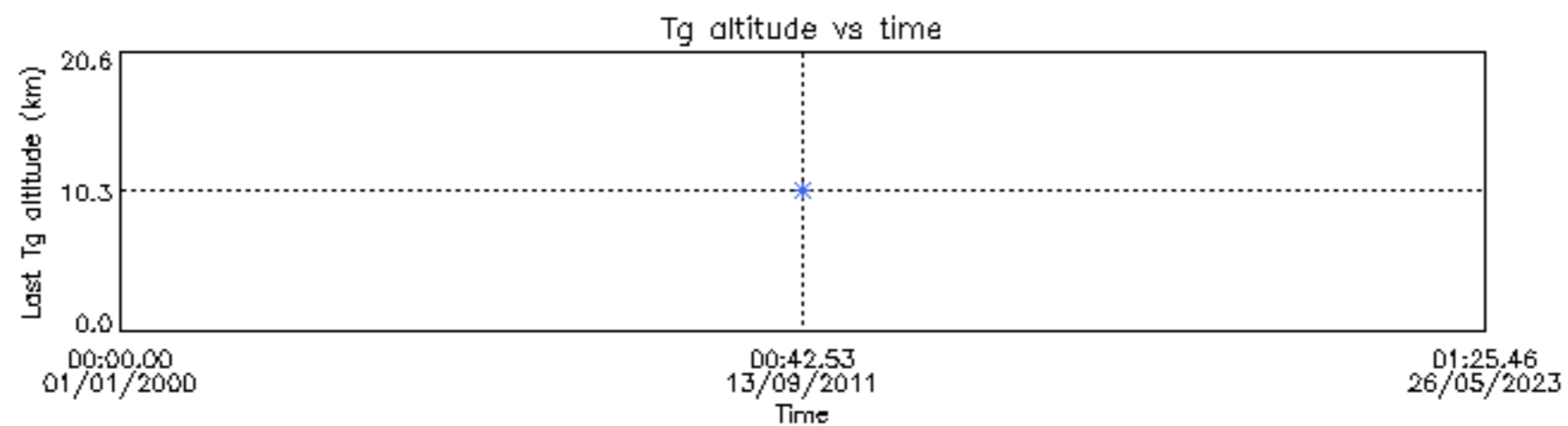
Percentage of star falling outside central band per profile



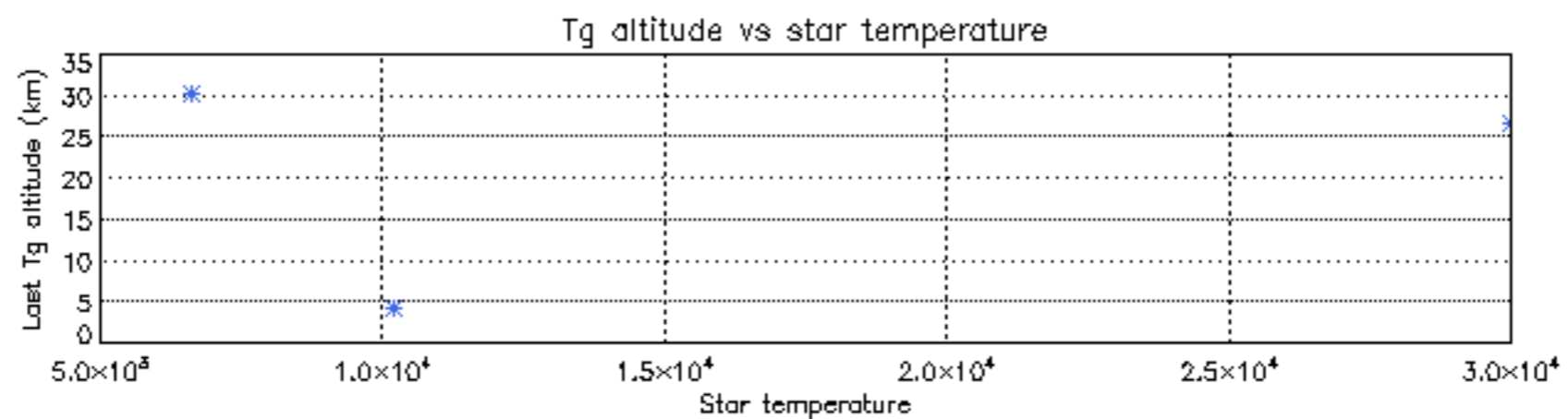
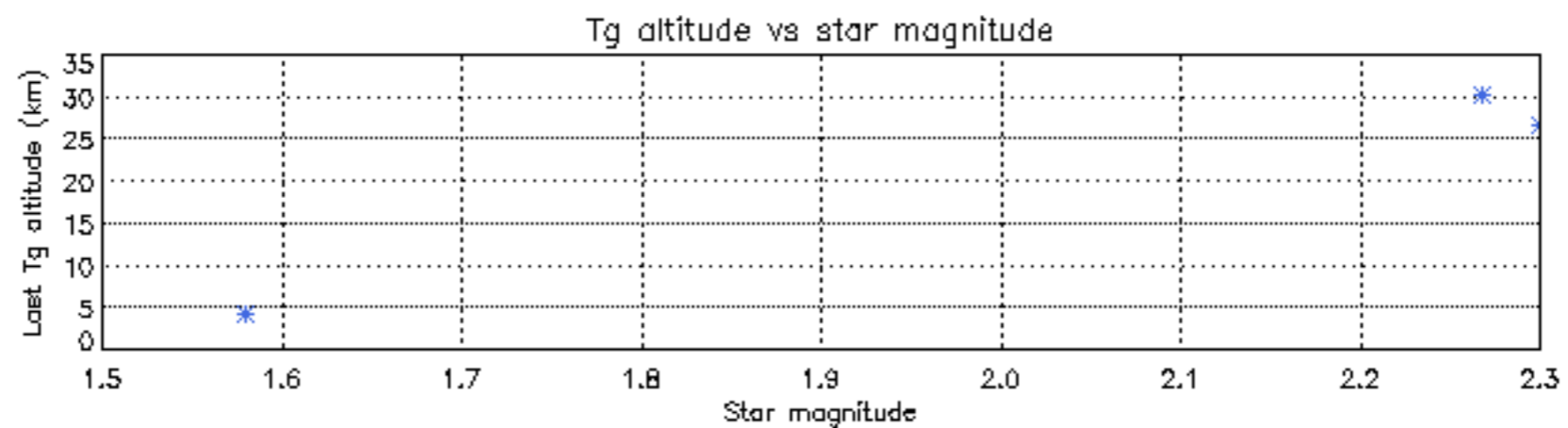
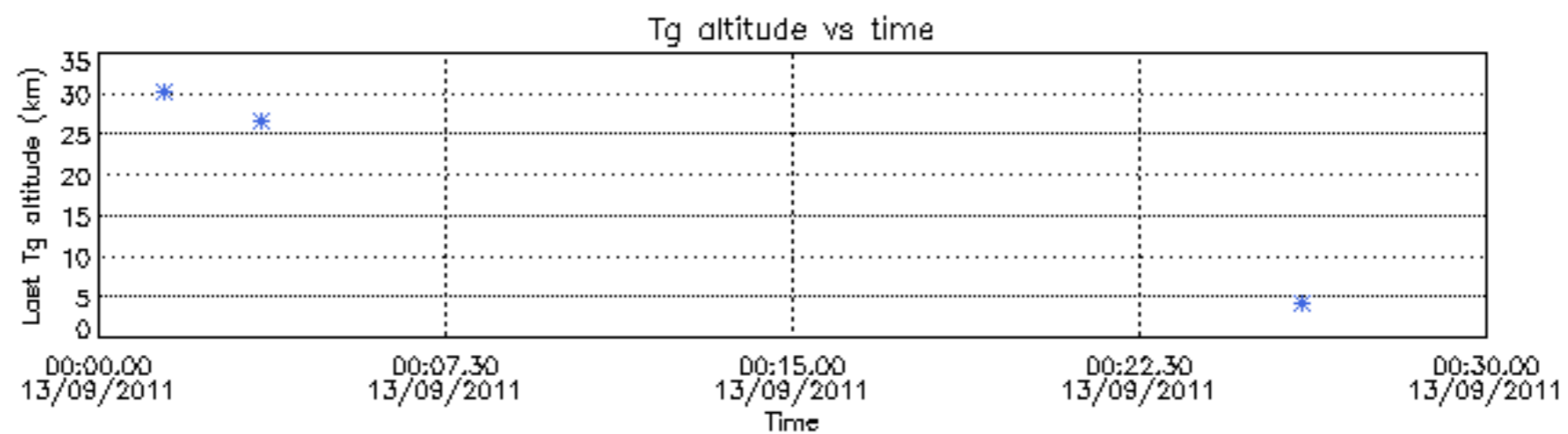
Percentage of saturation errors per profile



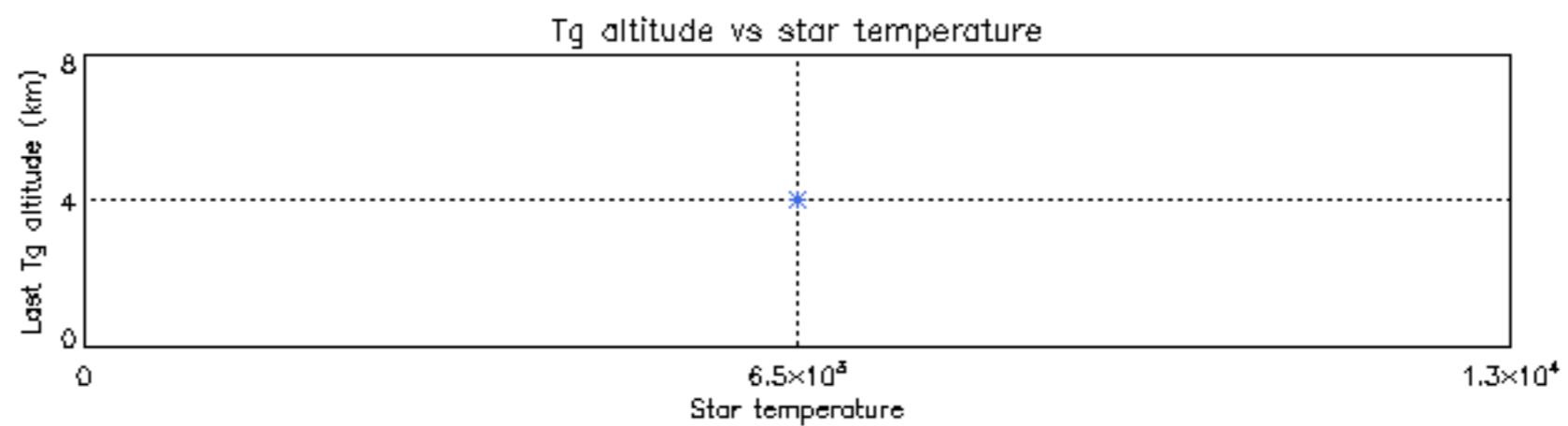
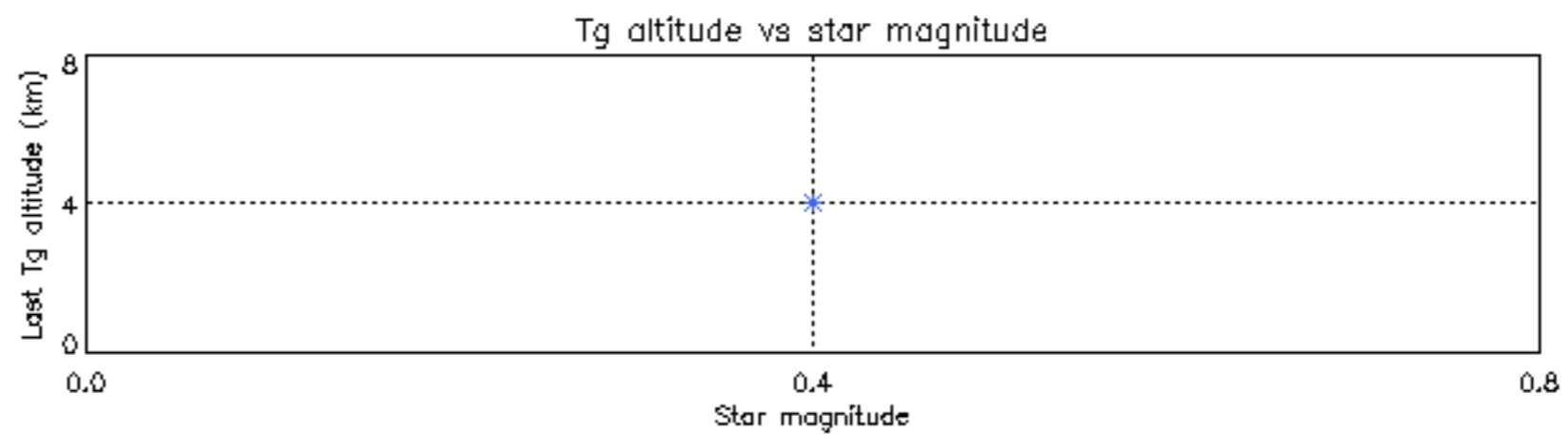
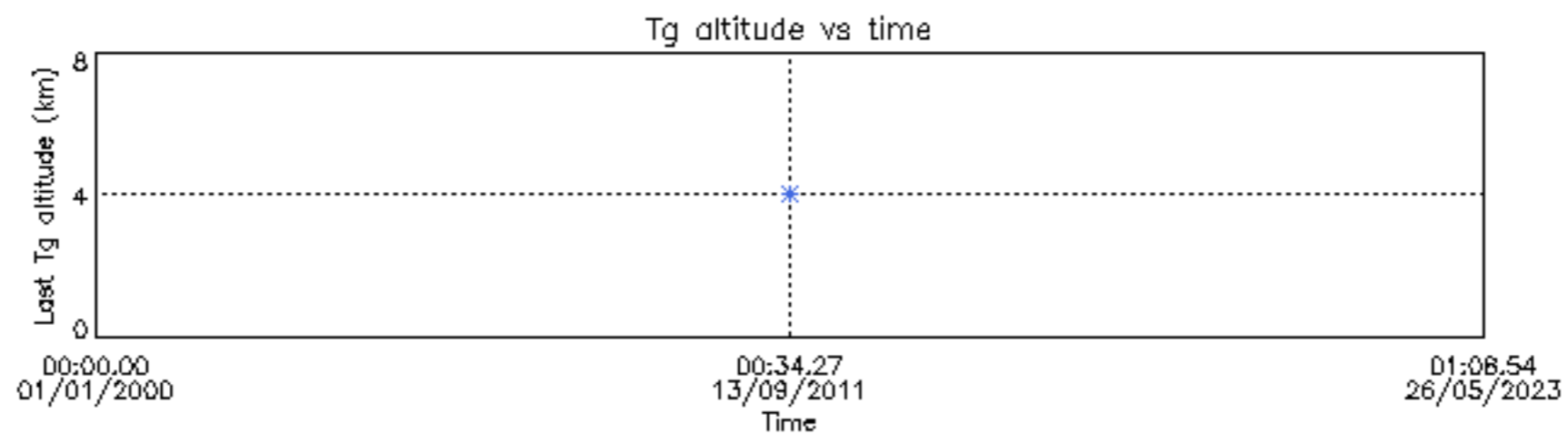
Tangent altitude at which the star is lost

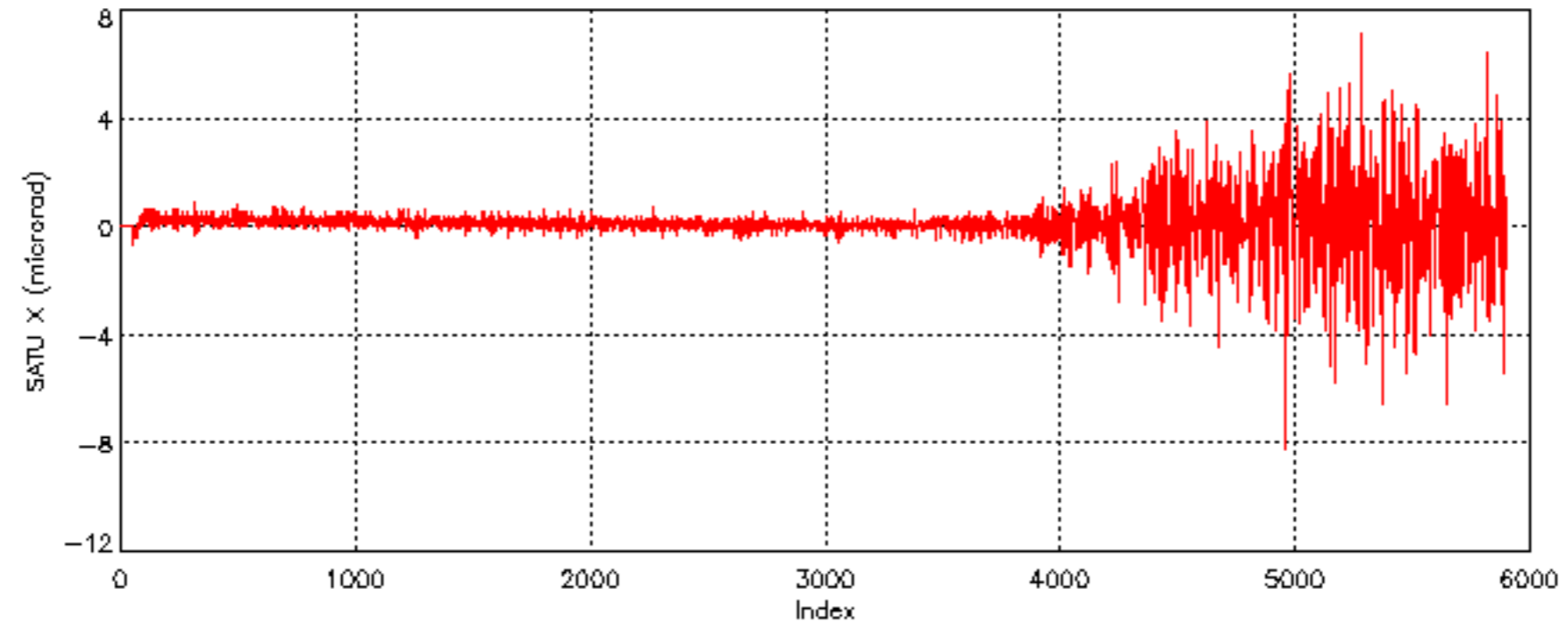


Tangent altitude at which the star is lost

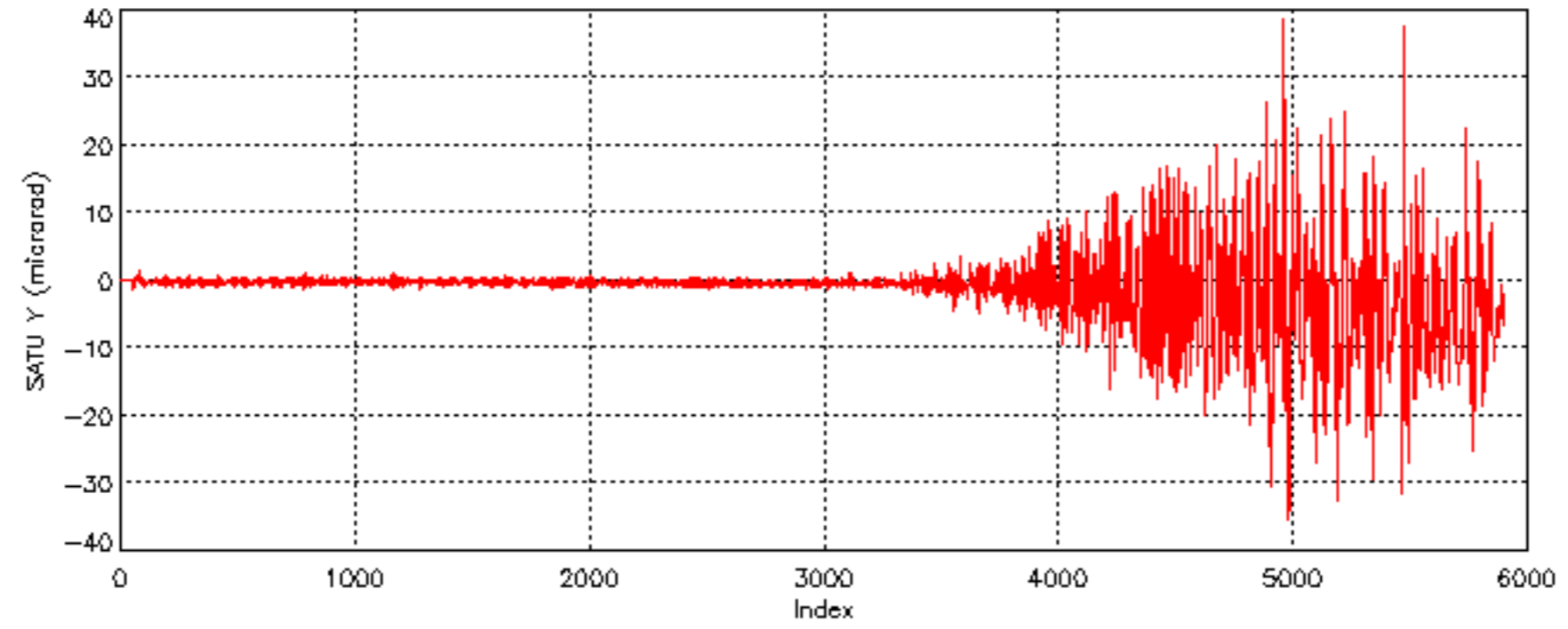


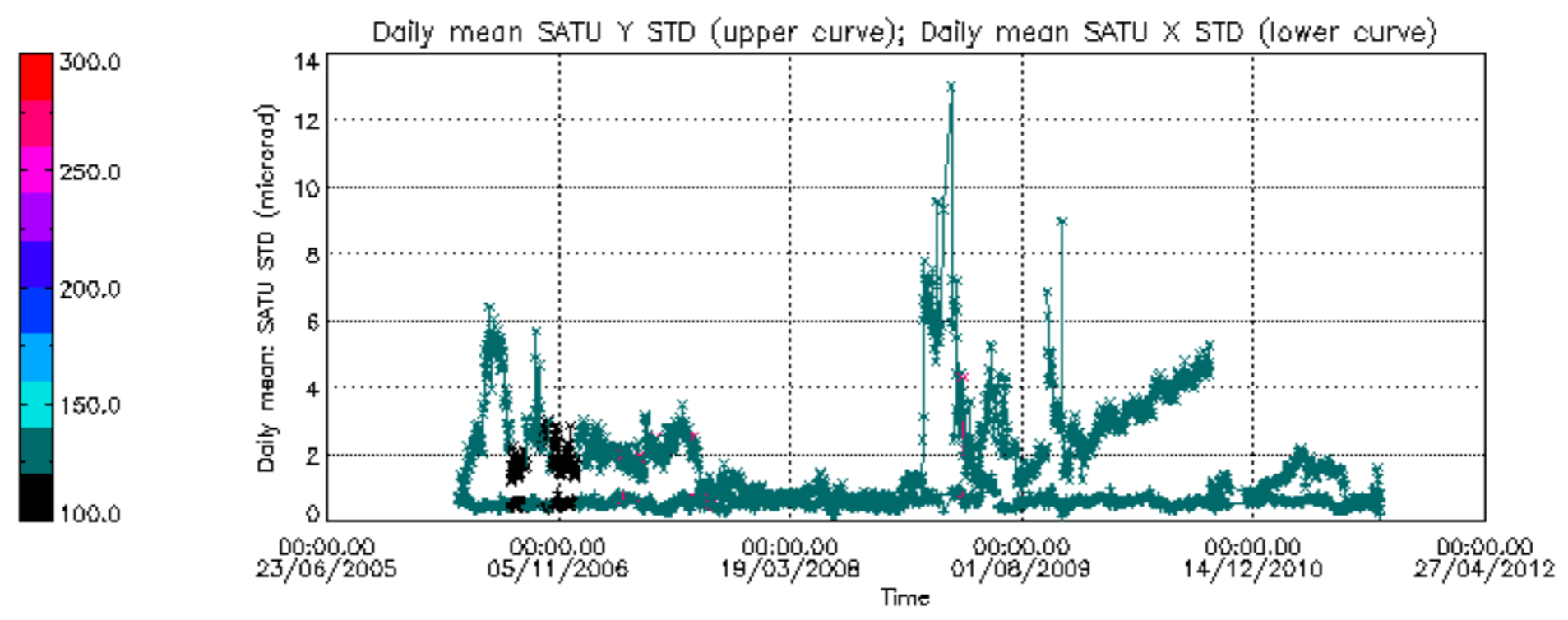
Tangent altitude at which the star is lost

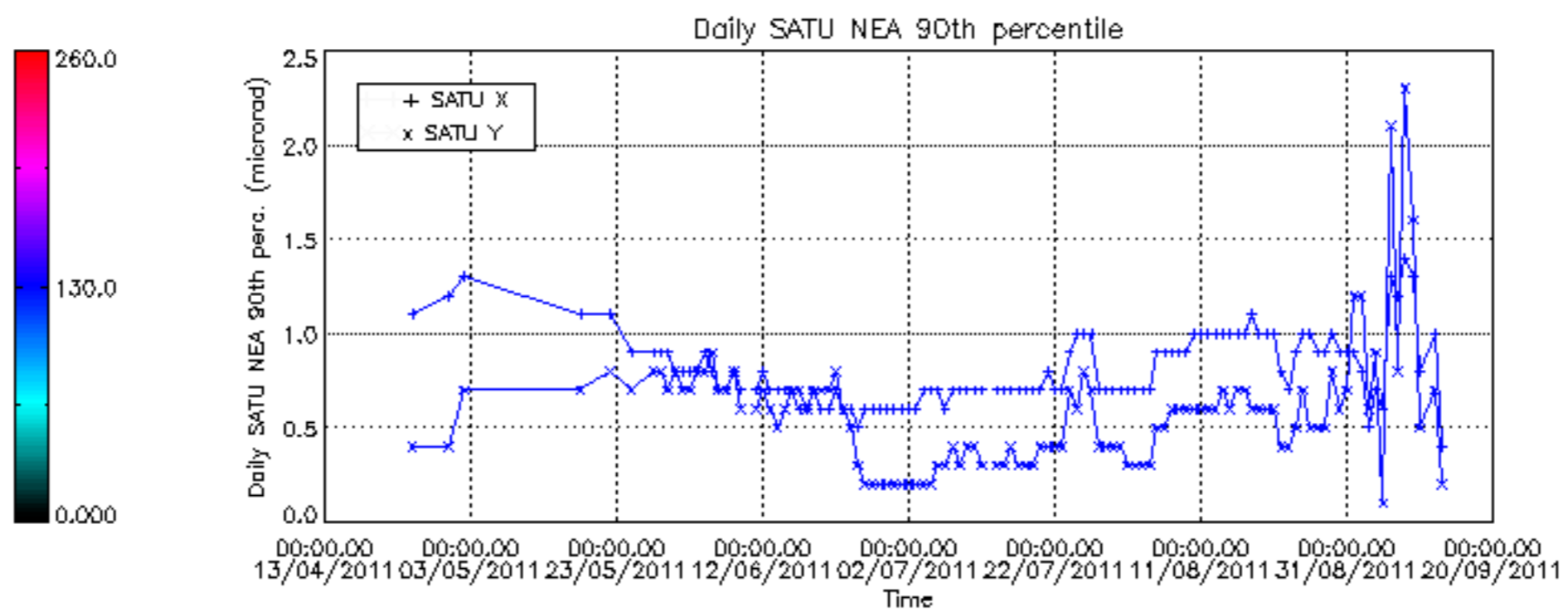












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2; 3104.0; 02-SEP-2011 11:47:03; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;49721
3; 4902.7; 02-SEP-2011 12:17:02; Dark ; 47.5; 8; 10Alp CMI ; 0.40; 6500;occ; 95; 0;49721
4; 5451.6; 02-SEP-2011 12:26:11; Dark ; 51.0; 47; 2Bet CMA ; 1.98; 28000;occ; 102; 0;49721
5; 6987.3; 02-SEP-2011 12:51:46; Dark ; 50.5; 84; Alp Phe ; 2.40; 4500;occ; 101; 0;49722
6; 7343.1; 02-SEP-2011 12:57:42; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;49722
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2; -561.5; 02-SEP-2011 14:06:25; Dark ; 51.5; 47; 2Bet CMA ; 1.98; 28000;occ; 103; 0;49722
3; 973.8; 02-SEP-2011 14:32:01; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;49723
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3; -560.7; 02-SEP-2011 15:46:40; Dark ; 52.0; 47; 2Bet CMA ; 1.98; 28000;occ; 104; 0;49723
4; 974.4; 02-SEP-2011 16:12:15; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;49724
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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
5; 6989.0; 02-SEP-2011 17:52:30; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;49725
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2; 4781.3; 02-SEP-2011 08:54:33; Dark ; 54.5; 44; 24Gam Gem ; 1.93; 11000;occ; 109; 0;49719
3; 5370.0; 02-SEP-2011 09:04:21; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;49719
4; 5450.0; 02-SEP-2011 09:05:41; Dark ; 50.0; 47; 2Bet CMA ; 1.98; 28000;occ; 100; 0;49719
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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
4; 4784.1; 02-SEP-2011 18:55:59; Dark ; 53.5; 44; 24Gam Gem ; 1.93; 11000;occ; 107; 0;49725
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
8; 6989.4; 02-SEP-2011 19:32:44; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;49726
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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
7; 5535.7; 02-SEP-2011 20:48:45; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;49726
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2; 977.0; 03-SEP-2011 00:33:28; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;49729
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; 3098.3; 03-SEP-2011 04:29:17; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;49731
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3; 1331.9; 03-SEP-2011 05:40:05; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;49732
4; 1883.3; 03-SEP-2011 05:49:16; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;49732
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2; 1334.1; 03-SEP-2011 20:42:13; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;49741
3; 1883.5; 03-SEP-2011 20:51:22; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;49741
4; 3092.2; 03-SEP-2011 21:11:31; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 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
4; 1334.4; 03-SEP-2011 22:22:27; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;49742
5; 1883.4; 03-SEP-2011 22:31:36; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;49742
6; 3091.7; 03-SEP-2011 22:51:44; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;49742
7; 4909.9; 03-SEP-2011 23:22:02; Dark ; 47.5; 8; 10Alp CMi ; 0.40; 6500;occ; 95; 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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4; -631.7; 03-SEP-2011 15:08:45; Dark ; 54.0; 1; 9Alp CMA ; -1.44; 11000;occ; 108; 0;49737
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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3; 3094.1; 03-SEP-2011 16:10:51; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;49738
4; 5383.0; 03-SEP-2011 16:48:59; Dark ; 52.0; 1; 9Alp CMA ; -1.44; 11000;occ; 104; 0;49738
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3; 5383.7; 03-SEP-2011 18:29:14; Dark ; 49.5; 1; 9Alp CMA ; -1.44; 11000;occ; 99; 0;49739
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3; 1334.9; 04-SEP-2011 01:42:55; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;49744
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8; 5723.0; 09-SEP-2011 09:53:44; Dark ; 46.0; 177; 1Zet CMA ; 3.02; 26000;occ; 92; 0;49820
9; 5814.3; 09-SEP-2011 09:55:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49820
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11; 6605.8; 09-SEP-2011 10:08:27; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;49821
12; 6688.5; 09-SEP-2011 10:09:50; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;49821
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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
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6; 5595.7; 09-SEP-2011 11:31:51; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;49821
7; 5723.9; 09-SEP-2011 11:33:59; Dark ; 45.5; 177; 1Zet CMA ; 3.02; 26000;occ; 91; 0;49821
8; 5815.1; 09-SEP-2011 11:35:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49821

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8; 4625.4; 09-SEP-2011 19:36:51; Dark ; 58.0; 170; 27Eps Gem ; 3.00; 9700;occ; 116; 0;49826
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11; 5599.4; 09-SEP-2011 19:53:05; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;49826
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4; 2181.2; 10-SEP-2011 01:37:02; Bright; 42.0; 90; 54Alp Peg ; 2.49; 11000;occ; 84; 0;49830
5; 2434.2; 10-SEP-2011 01:41:15; Bright; 39.5; 164; 44Eta Peg ; 2.95; 5400;occ; 79; 0;49830
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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3; 3024.1; 12-SEP-2011 20:40:24; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;49870
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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3; -382.1; 12-SEP-2011 21:23:52; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;49870
4; -242.7; 12-SEP-2011 21:26:11; Dark ; 46.0; 177; 1Zet CMA ; 3.02; 26000;occ; 92; 0;49870
5; -156.8; 12-SEP-2011 21:27:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49870
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
8; 2171.5; 12-SEP-2011 22:06:26; Bright; 41.0; 90; 54Alp Peg ; 2.49; 11000;occ; 82; 0;49871
9; 2405.3; 12-SEP-2011 22:10:19; Bright; 41.5; 93; 53Bet Peg ; 2.52; 3100;occ; 83; 0;49871
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11; 3134.0; 12-SEP-2011 22:22:28; Bright; 44.5; 76; 27Gam Cas ; 2.30; 30000;occ; 89; 0;49871
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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3; -241.7; 12-SEP-2011 23:06:26; Dark ; 47.5; 177; 1Zet CMA ; 3.02; 26000;occ; 95; 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
10; 4454.8; 13-SEP-2011 00:24:43; Bright; 62.0; 24; 66Alp Gem ; 1.58; 10200;occ; 124; 0;49872
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3; 2397.8; 14-SEP-2011 20:56:43; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49899
4; 3011.0; 14-SEP-2011 21:06:56; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;49899
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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3; 3014.2; 14-SEP-2011 09:25:21; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;49892
4; 3122.2; 14-SEP-2011 09:27:09; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;49892
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3; 3013.6; 14-SEP-2011 11:05:35; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;49893
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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4; 1058.4; 14-SEP-2011 22:14:37; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;49900
5; 2166.3; 14-SEP-2011 22:33:05; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;49900
6; 2397.6; 14-SEP-2011 22:36:57; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49900
7; 3010.5; 14-SEP-2011 22:47:10; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;49900
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5; 2166.1; 15-SEP-2011 00:13:19; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;49901
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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
5; 3118.7; 14-SEP-2011 19:28:30; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49898
6; 4458.4; 14-SEP-2011 19:50:49; Bright; 43.5; 24; 66Alp Gem ; 1.58; 10200;occ; 87; 0;49898
7; 4977.2; 14-SEP-2011 19:59:28; Dark ; 53.5; 8; 10Alp CMI ; 0.40; 6500;occ; 107; 0;49898
8; 5520.7; 14-SEP-2011 20:08:32; Dark ; 64.0; 1; 9Alp CMA ; -1.44; 11000;occ; 128; 0;49898

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5; 2502.9; 16-SEP-2011 21:25:13; Bright; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;49928
6; 2998.4; 16-SEP-2011 21:33:28; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49928
7; 3102.3; 16-SEP-2011 21:35:12; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49928
8; 4462.3; 16-SEP-2011 21:57:52; Bright; 47.5; 24; 66Alp Gem ; 1.58; 10200;occ; 95; 0;49928
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4; 1069.8; 16-SEP-2011 22:41:34; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;49929
5; 1520.0; 16-SEP-2011 22:49:04; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;49929
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9; 2997.9; 16-SEP-2011 23:13:42; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49929
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 5; 2495.3; 17-SEP-2011 19:08:07; Bright; 47.0; 58; 21Alp And ; 2.07; 11000;occ; 94; 0;49941  
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 8; 4464.0; 17-SEP-2011 19:40:56; Bright; 65.0; 24; 66Alp Gem ; 1.58; 10200;occ; 130; 0;49941  
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 5; 1522.2; 18-SEP-2011 01:32:49; Dark ; 55.5; 52; 16Bet Cet ; 2.04; 4500;occ; 111; 0;49945  
 6; 2159.8; 18-SEP-2011 01:43:27; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;49945  
 7; 2387.6; 18-SEP-2011 01:47:15; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49945  
 8; 2492.7; 18-SEP-2011 01:49:00; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;49945  
 9; 2991.4; 18-SEP-2011 01:57:19; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49945  
 10; 3093.1; 18-SEP-2011 01:59:00; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49945  
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 7; 2159.7; 18-SEP-2011 03:23:41; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;49946  
 8; 2387.5; 18-SEP-2011 03:27:29; Bright; 56.0; 93; 53Bet Peg ; 2.52; 3100;occ; 112; 0;49946  
 9; 2492.3; 18-SEP-2011 03:29:13; Bright; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;49946  
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 6; 1077.3; 18-SEP-2011 06:26:07; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;49948  
 7; 1522.8; 18-SEP-2011 06:33:32; Dark ; 55.5; 52; 16Bet Cet ; 2.04; 4500;occ; 111; 0;49948  
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 9; 2387.2; 18-SEP-2011 06:47:56; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49948  
 10; 2491.1; 18-SEP-2011 06:49:40; Bright; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;49948  
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 3; 2158.6; 18-SEP-2011 20:06:00; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;49956  
 4; 2385.6; 18-SEP-2011 20:09:47; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49956  
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 7; 3087.3; 18-SEP-2011 20:21:28; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;49956  
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 5; 743.3; 18-SEP-2011 21:22:38; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;49957  
 6; 1080.5; 18-SEP-2011 21:28:16; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;49957  
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 9; 2385.4; 18-SEP-2011 21:50:00; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;49957  
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6; 1077.7; 18-SEP-2011 08:06:21; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;49949
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3; 2490.5; 18-SEP-2011 08:29:54; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;49949
4; 2989.8; 18-SEP-2011 08:38:13; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;49949
5; 3091.0; 18-SEP-2011 08:39:54; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;49949
6; 4465.0; 18-SEP-2011 09:02:48; Bright; 47.0; 24; 66Alp Gem ; 1.58; 10200;occ; 94; 0;49949
7; 5005.7; 18-SEP-2011 09:11:49; Dark ; 65.0; 8; 10Alp CMI ; 0.40; 6500;occ; 130; 0;49949
8; 5577.9; 18-SEP-2011 09:21:21; Dark ; 64.5; 1; 9Alp CMA ; -1.44; 11000;occ; 129; 0;49949
9; 5698.8; 18-SEP-2011 09:23:22; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;49949
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11; 7092.0; 18-SEP-2011 09:46:35; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;49950
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8; 5580.3; 18-SEP-2011 12:41:51; Dark ; 60.0; 1; 9Alp CMA ; -1.44; 11000;occ; 120; 0;49951
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5; 3089.4; 18-SEP-2011 13:40:34; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;49952
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8; 5581.5; 18-SEP-2011 14:22:06; Dark ; 69.0; 1; 9Alp CMA ; -1.44; 11000;occ; 138; 0;49952
9; 5701.6; 18-SEP-2011 14:24:07; Dark ; 57.5; 23; 21Eps CMA ; 1.50; 26000;occ; 115; 0;49952
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8; 5008.9; 18-SEP-2011 17:33:02; Dark ; 60.0; 8; 10Alp CMI ; 0.40; 6500;occ; 120; 0;49954
9; 5584.1; 18-SEP-2011 17:42:37; Dark ; 73.5; 1; 9Alp CMA ; -1.44; 11000;occ; 147; 0;49954
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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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5; 3083.5; 19-SEP-2011 09:43:16; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;49964
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11; 5717.8; 19-SEP-2011 18:48:20; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;49969
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2; 1085.8; 19-SEP-2011 22:31:50; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;49972
3; 1526.2; 19-SEP-2011 22:39:11; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;49972
4; 2156.9; 19-SEP-2011 22:49:41; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;49972
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7; 2980.8; 19-SEP-2011 23:03:25; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49972
8; 3079.2; 19-SEP-2011 23:05:03; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;49972
9; 4468.0; 19-SEP-2011 23:28:12; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;49972
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9; 2156.9; 20-SEP-2011 07:10:51; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;49977
10; 2382.2; 20-SEP-2011 07:14:36; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;49977
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5; 1091.3; 20-SEP-2011 23:35:25; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;49987
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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9; 2975.1; 21-SEP-2011 00:06:49; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;49987
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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6; 66.9; 20-SEP-2011 08:16:15; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 5;49978
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4; 2977.0; 20-SEP-2011 15:45:41; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49982
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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3; 112.3; 21-SEP-2011 00:59:20; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;49988
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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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1; 1095.8; 21-SEP-2011 21:18:31; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;50000
2; 1530.2; 21-SEP-2011 21:25:45; Dark ; 52.5; 52; 16Bet Cet ; 2.04; 4500;occ; 105; 0;50000
3; 2155.1; 21-SEP-2011 21:36:10; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;50000
4; 2379.0; 21-SEP-2011 21:39:54; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;50000
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
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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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1; 54.5; 27-SEP-2011 10:39:47; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;50080
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  
 4; 6896.6; 27-SEP-2011 19:14:45; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;50085  
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 2; 3027.3; 27-SEP-2011 19:50:29; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;50085  
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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  
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 2; 3025.4; 28-SEP-2011 04:11:37; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;50090  
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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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 2; 3024.6; 28-SEP-2011 07:32:04; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;50092  
 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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 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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 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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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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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
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2; 2643.5; 30-SEP-2011 01:11:32; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;50117
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