

# GOMOS Daily Report 06-SEP-2007

## 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	08SEP2007 05:40:04
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (06SEP2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (07SEP2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

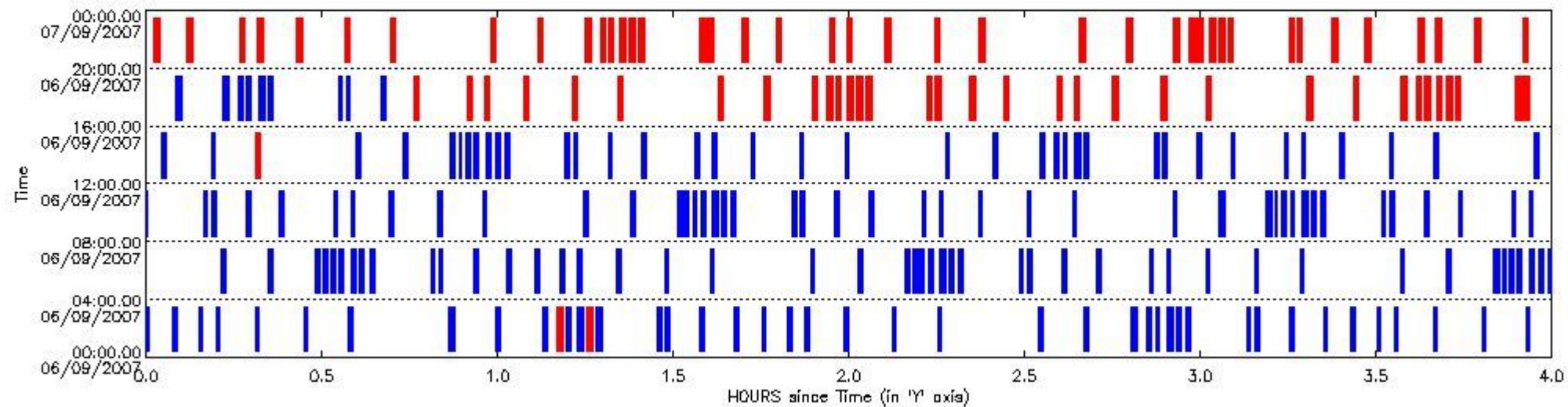
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
06-SEP-2007 01:10:09	21EpsCMa	23	28842
06-SEP-2007 01:15:07	AlpCol	108	28842
06-SEP-2007 12:18:38	1AlpUMi	49	28849
06-SEP-2007 16:45:41	24AlpPsA	18	28852
06-SEP-2007 16:54:48	34AlpAqr	162	28852
06-SEP-2007 16:57:46	8EpsPeg	61	28852
06-SEP-2007 17:04:22	44EtaPeg	164	28852
06-SEP-2007 17:12:43	5AlpCep	89	28852
06-SEP-2007 17:20:25	1AlpUMi	49	28852
06-SEP-2007 17:37:35	66AlpGem	24	28852
06-SEP-2007 17:45:33	10AlpCMi	8	28852
06-SEP-2007 17:53:37	9AlpCMa	1	28852
06-SEP-2007 17:56:14	21EpsCMa	23	28852
06-SEP-2007 17:57:39	PiPup	117	28852
06-SEP-2007 17:59:41	DSA1059	0	28852

06-SEP-2007 18:01:16	AlpCol	108	28852
06-SEP-2007 18:02:52	AlpCar	2	28852
06-SEP-2007 18:13:16	AlpHyi	143	28853
06-SEP-2007 18:14:37	AlpEri	9	28853
06-SEP-2007 18:20:32	AlpPhe	84	28853
06-SEP-2007 18:26:17	24AlpPsA	18	28853
06-SEP-2007 18:35:24	34AlpAqr	162	28853
06-SEP-2007 18:38:22	8EpsPeg	61	28853
06-SEP-2007 18:44:57	44EtaPeg	164	28853
06-SEP-2007 18:53:18	5AlpCep	89	28853
06-SEP-2007 19:01:01	1AlpUMi	49	28853
06-SEP-2007 19:18:11	66AlpGem	24	28853
06-SEP-2007 19:26:09	10AlpCMi	8	28853
06-SEP-2007 19:34:14	9AlpCMa	1	28853
06-SEP-2007 19:36:51	21EpsCMa	23	28853
06-SEP-2007 19:38:16	PiPup	117	28853
06-SEP-2007 19:40:17	DSA1059	0	28853
06-SEP-2007 19:41:53	AlpCol	108	28853
06-SEP-2007 19:43:29	AlpCar	2	28853
06-SEP-2007 19:53:53	AlpHyi	143	28854
06-SEP-2007 19:55:13	AlpEri	9	28854
06-SEP-2007 20:01:08	AlpPhe	84	28854
06-SEP-2007 20:06:53	24AlpPsA	18	28854
06-SEP-2007 20:16:00	34AlpAqr	162	28854
06-SEP-2007 20:18:58	8EpsPeg	61	28854
06-SEP-2007 20:25:33	44EtaPeg	164	28854
06-SEP-2007 20:33:54	5AlpCep	89	28854
06-SEP-2007 20:41:37	1AlpUMi	49	28854
06-SEP-2007 20:58:47	66AlpGem	24	28854
06-SEP-2007 21:06:45	10AlpCMi	8	28854
06-SEP-2007 21:14:51	9AlpCMa	1	28854
06-SEP-2007 21:17:27	21EpsCMa	23	28854
06-SEP-2007 21:18:52	PiPup	117	28854
06-SEP-2007 21:20:54	DSA1059	0	28854
06-SEP-2007 21:22:30	AlpCol	108	28854
06-SEP-2007 21:24:05	AlpCar	2	28854
06-SEP-2007 21:34:29	AlpHyi	143	28855
06-SEP-2007 21:35:50	AlpEri	9	28855
06-SEP-2007 21:41:44	AlpPhe	84	28855
06-SEP-2007 21:47:30	24AlpPsA	18	28855
06-SEP-2007 21:56:36	34AlpAqr	162	28855
06-SEP-2007 21:59:34	8EpsPeg	61	28855
06-SEP-2007 22:06:09	44EtaPeg	164	28855
06-SEP-2007 22:14:30	5AlpCep	89	28855
06-SEP-2007 22:22:13	1AlpUMi	49	28855
06-SEP-2007 22:39:23	66AlpGem	24	28855
06-SEP-2007 22:47:21	10AlpCMi	8	28855
06-SEP-2007 22:55:27	9AlpCMa	1	28855
06-SEP-2007 22:58:04	21EpsCMa	23	28855
06-SEP-2007 22:59:28	PiPup	117	28855
06-SEP-2007 23:01:31	DSA1059	0	28855
06-SEP-2007 23:03:07	AlpCol	108	28855
06-SEP-2007 23:04:42	AlpCar	2	28855
06-SEP-2007 23:15:05	AlpHyi	143	28856
06-SEP-2007 23:16:26	AlpEri	9	28856
06-SEP-2007 23:22:21	AlpPhe	84	28856
06-SEP-2007 23:28:06	24AlpPsA	18	28856
06-SEP-2007 23:37:11	34AlpAqr	162	28856
06-SEP-2007 23:40:10	8EpsPeg	61	28856

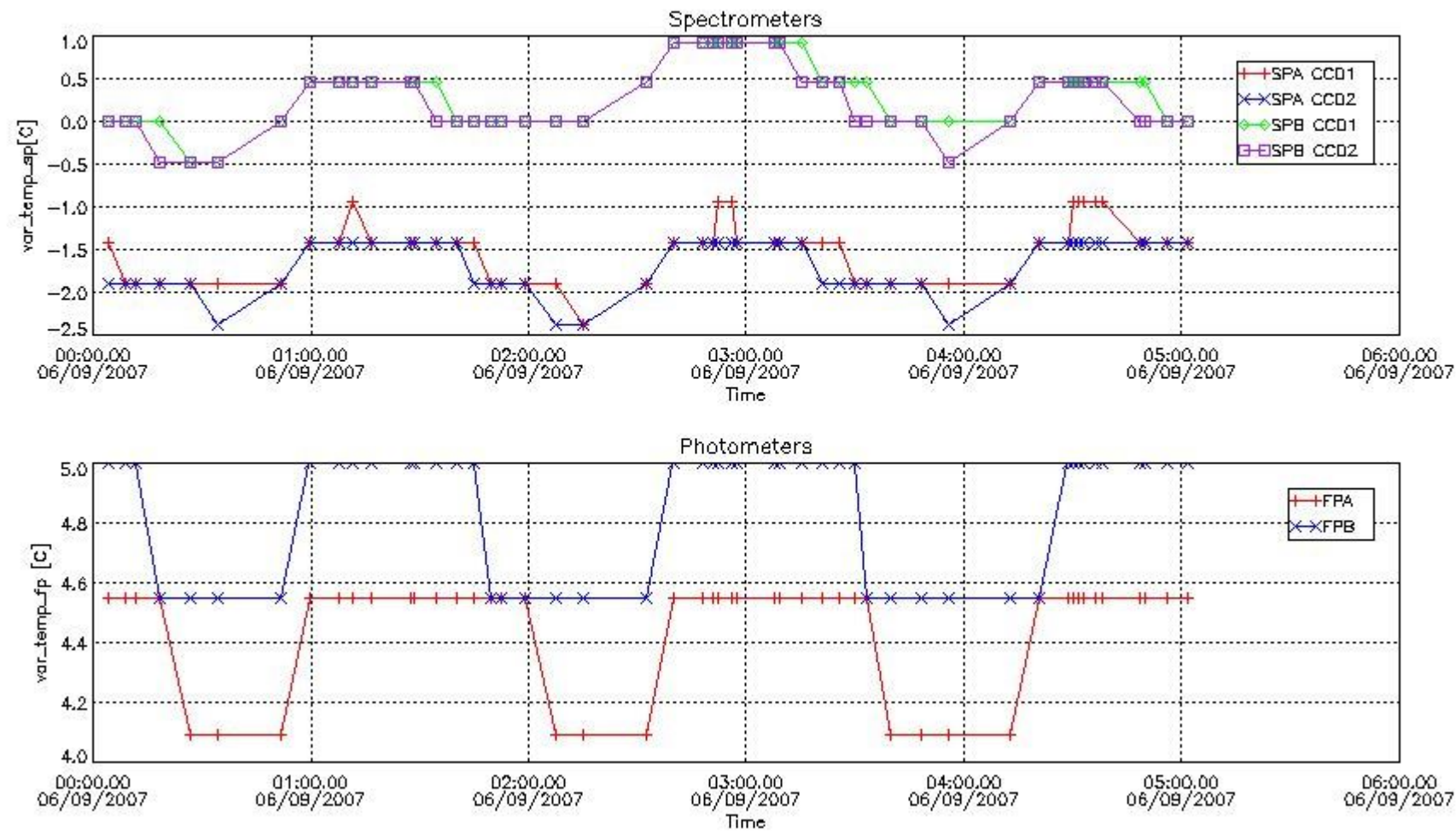
06-SEP-2007 23:46:44	44EtaPeg	164	28856
06-SEP-2007 23:55:06	5AlpCep	89	28856

## 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_1PNPDE20070906_000427_000000442061_00231_28842_6205.N1	06-SEP-2007 00:04:27	Bright	43.500	142	49Del Cap	2.8500	8900.0	87	28842	No
2	GOM_TRA_1PNPDE20070906_000854_000000382061_00231_28842_6206.N1	06-SEP-2007 00:08:54	Bright	38.000	162	34Alp Aqr	2.9440	5350.0	76	28842	No
3	GOM_TRA_1PNPDE20070906_001153_000000382061_00231_28842_6207.N1	06-SEP-2007 00:11:53	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	28842	No
4	GOM_TRA_1PNPDE20070906_001832_000000412061_00231_28842_6208.N1	06-SEP-2007 00:18:32	Bright	40.500	164	44Eta Peg	2.9480	5400.0	81	28842	No
5	GOM_TRA_1PNPDE20070906_002650_000000342061_00231_28842_6209.N1	06-SEP-2007 00:26:50	Bright	33.500	89	5Alp Cep	2.4510	8000.0	67	28842	No
6	GOM_TRA_1PNPDE20070906_003432_000000362061_00231_28842_6210.N1	06-SEP-2007 00:34:32	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28842	No
7	GOM_TRA_1PNPDE20070906_005140_000000542061_00231_28842_6211.N1	06-SEP-2007 00:51:40	Bright	54.000	24	66Alp Gem	1.5800	10200.	108	28842	No
8	GOM_TRA_1PNPDE20070906_005935_000000432061_00231_28842_6212.N1	06-SEP-2007 00:59:35	Twilight	43.000	8	10Alp CMi	0.40000	6500.0	86	28842	No
9	GOM_TRA_1PNPDE20070906_010737_000000512061_00231_28842_6330.N1	06-SEP-2007 01:07:37	Dark	51.000	1	9Alp CMa	-1.4400	11000.	102	28842	No
10	GOM_TRA_1PNPDE20070906_011141_000000432061_00231_28842_6331.N1	06-SEP-2007 01:11:41	Dark	43.000	117	Pi Pup	2.7060	3800.0	86	28842	No
11	GOM_TRA_1PNPDE20070906_011654_000000492061_00231_28842_6332.N1	06-SEP-2007 01:16:54	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	28842	No
12	GOM_TRA_1PNPDE20070906_012717_000000402061_00232_28843_6333.N1	06-SEP-2007 01:27:17	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	28843	No
13	GOM_TRA_1PNPDE20070906_012838_000000462061_00232_28843_6334.N1	06-SEP-2007 01:28:38	Dark	46.000	9	Alp Eri	0.45300	24000.	92	28843	No
14	GOM_TRA_1PNPDE20070906_013433_000000502061_00232_28843_6335.N1	06-SEP-2007 01:34:33	Straylight	50.000	84	Alp Phe	2.3970	4500.0	100	28843	No
15	GOM_TRA_1PNPDE20070906_014021_000000472061_00232_28843_6336.N1	06-SEP-2007 01:40:21	Straylight	47.000	18	24Alp PsA	1.1660	9700.0	94	28843	No
16	GOM_TRA_1PNPDE20070906_014503_000000402061_00232_28843_6337.N1	06-SEP-2007 01:45:03	Bright	40.000	142	49Del Cap	2.8500	8900.0	80	28843	No
17	GOM_TRA_1PNPDE20070906_014930_000000382061_00232_28843_6338.N1	06-SEP-2007 01:49:30	Bright	38.000	162	34Alp Aqr	2.9440	5350.0	76	28843	No
18	GOM_TRA_1PNPDE20070906_015229_000000382061_00232_28843_6339.N1	06-SEP-2007 01:52:29	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	28843	No
19	GOM_TRA_1PNPDE20070906_015908_000000422061_00232_28843_6340.N1	06-SEP-2007 01:59:08	Bright	41.500	164	44Eta Peg	2.9480	5400.0	83	28843	No
20	GOM_TRA_1PNPDE20070906_020726_000000342061_00232_28843_6341.N1	06-SEP-2007 02:07:26	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	28843	No
21	GOM_TRA_1PNPDE20070906_021508_000000362061_00232_28843_6342.N1	06-SEP-2007 02:15:08	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28843	No
22	GOM_TRA_1PNPDE20070906_023216_000000552061_00232_28843_6506.N1	06-SEP-2007 02:32:16	Bright	54.500	24	66Alp Gem	1.5800	10200.	109	28843	No
23	GOM_TRA_1PNPDE20070906_024012_000000432061_00232_28843_6507.N1	06-SEP-2007 02:40:12	Twilight	42.500	8	10Alp CMi	0.40000	6500.0	85	28843	No
24	GOM_TRA_1PNPDE20070906_024813_000000532061_00232_28843_6508.N1	06-SEP-2007 02:48:13	Dark	52.500	1	9Alp CMa	-1.4400	11000.	105	28843	No
25	GOM_TRA_1PNPDE20070906_025051_000000442061_00232_28843_6509.N1	06-SEP-2007 02:50:51	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	28843	No
26	GOM_TRA_1PNPDE20070906_025217_000000402061_00232_28843_6510.N1	06-SEP-2007 02:52:17	Dark	39.500	117	Pi Pup	2.7060	3800.0	79	28843	No
27	GOM_TRA_1PNPDE20070906_025550_000000482061_00232_28843_6511.N1	06-SEP-2007 02:55:50	Dark	47.500	108	Alp Col	2.6520	15200.	95	28843	No
28	GOM_TRA_1PNPDE20070906_025731_000000452061_00232_28843_6512.N1	06-SEP-2007 02:57:31	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	28843	No
29	GOM_TRA_1PNPDE20070906_030754_000000402061_00233_28844_6513.N1	06-SEP-2007 03:07:54	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	28844	No
30	GOM_TRA_1PNPDE20070906_030914_000000512061_00233_28844_6514.N1	06-SEP-2007 03:09:14	Dark	51.000	9	Alp Eri	0.45300	24000.	102	28844	No
31	GOM_TRA_1PNPDE20070906_031509_000000472061_00233_28844_6515.N1	06-SEP-2007 03:15:09	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	28844	No
32	GOM_TRA_1PNPDE20070906_032058_000000462061_00233_28844_6516.N1	06-SEP-2007 03:20:58	Straylight	46.000	18	24Alp PsA	1.1660	9700.0	92	28844	No
33	GOM_TRA_1PNPDE20070906_032539_000000402061_00233_28844_6517.N1	06-SEP-2007 03:25:39	Bright	40.000	142	49Del Cap	2.8500	8900.0	80	28844	No
34	GOM_TRA_1PNPDE20070906_033006_000000382061_00233_28844_6518.N1	06-SEP-2007 03:30:06	Bright	38.000	162	34Alp Aqr	2.9440	5350.0	76	28844	No
35	GOM_TRA_1PNPDE20070906_033305_000000372061_00233_28844_6519.N1	06-SEP-2007 03:33:05	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	28844	No
36	GOM_TRA_1PNPDE20070906_033943_000000412061_00233_28844_6520.N1	06-SEP-2007 03:39:43	Bright	41.000	164	44Eta Peg	2.9480	5400.0	82	28844	No
37	GOM_TRA_1PNPDE20070906_034802_000000332061_00233_28844_6521.N1	06-SEP-2007 03:48:02	Bright	32.500	89	5Alp Cep	2.4510	8000.0	65	28844	No
38	GOM_TRA_1PNPDE20070906_035544_000000332061_00233_28844_6522.N1	06-SEP-2007 03:55:44	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28844	No
39	GOM_TRA_1PNPDE20070906_041252_000000392061_00233_28844_6650.N1	06-SEP-2007 04:12:52	Bright	39.000	24	66Alp Gem	1.5800	10200.	78	28844	No
40	GOM_TRA_1PNPDE20070906_042048_000000462061_00233_28844_6651.N1	06-SEP-2007 04:20:48	Twilight	46.000	8	10Alp CMi	0.40000	6500.0	92	28844	No
41	GOM_TRA_1PNPDE20070906_042850_000000562061_00233_28844_6652.N1	06-SEP-2007 04:28:50	Dark	55.500	1	9Alp CMa	-1.4400	11000.	111	28844	No
42	GOM_TRA_1PNPDE20070906_043016_000000442061_00233_28844_6653.N1	06-SEP-2007 04:30:16	Dark	44.000	47	2Bet CMa	1.9760	28000.	88	28844	No
43	GOM_TRA_1PNPDE20070906_043128_000000452061_00233_28844_6654.N1	06-SEP-2007 04:31:28	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	28844	No
44	GOM_TRA_1PNPDE20070906_043254_000000442061_00233_28844_6655.N1	06-SEP-2007 04:32:54	Dark	44.000	117	Pi Pup	2.7060	3800.0	88	28844	No
45	GOM_TRA_1PNPDE20070906_043627_000000472061_00233_28844_6656.N1	06-SEP-2007 04:36:27	Dark	46.500	108	Alp Col	2.6520	15200.	93	28844	No
46	GOM_TRA_1PNPDE20070906_043807_000000542061_00233_28844_6657.N1	06-SEP-2007 04:38:07	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	28844	No
47	GOM_TRA_1PNPDE20070906_044830_000000412061_00234_28845_6658.N1	06-SEP-2007 04:48:30	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	28845	No
48	GOM_TRA_1PNPDE20070906_044951_000000452061_00234_28845_6659.N1	06-SEP-2007 04:49:51	Dark	45.000	9	Alp Eri	0.45300	24000.	90	28845	No
49	GOM_TRA_1PNPDE20070906_045546_000000522061_00234_28845_6660.N1	06-SEP-2007 04:55:46	Straylight	51.500	84	Alp Phe	2.3970	4500.0	103	28845	No
50	GOM_TRA_1PNPDE20070906_050134_000000462061_00234_28845_6661.N1	06-SEP-2007 05:01:34	Straylight	45.500	18	24Alp PsA	1.1660	9700.0	91	28845	No



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



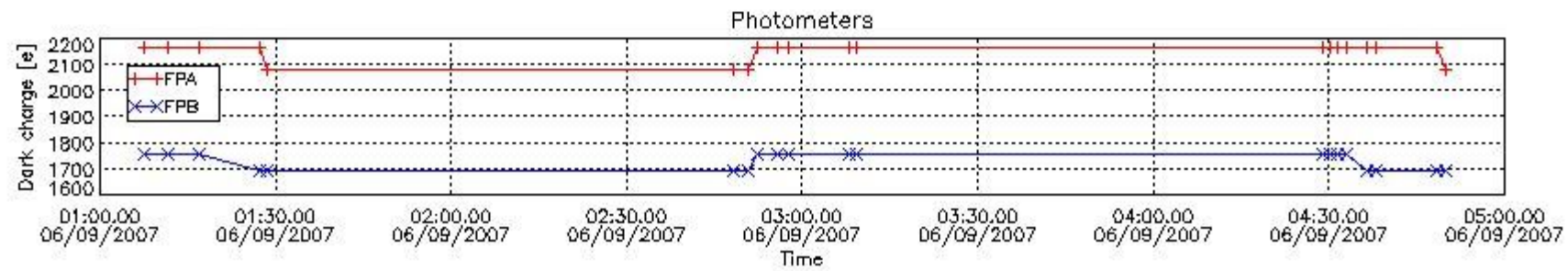
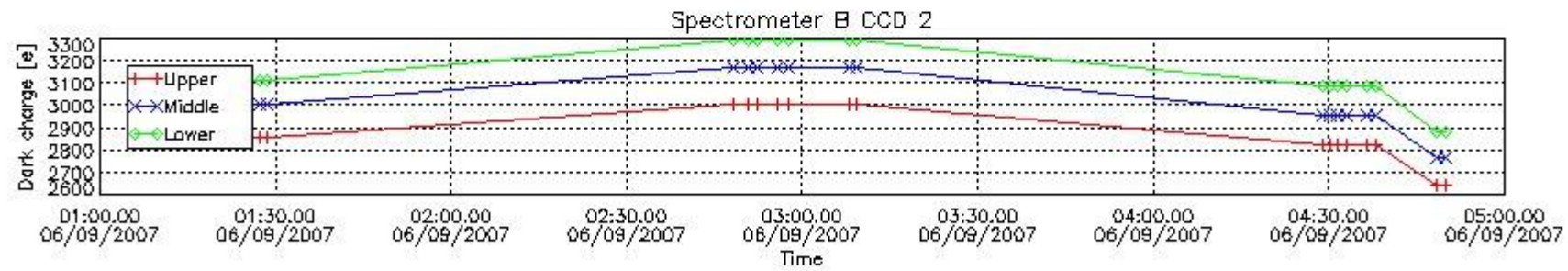
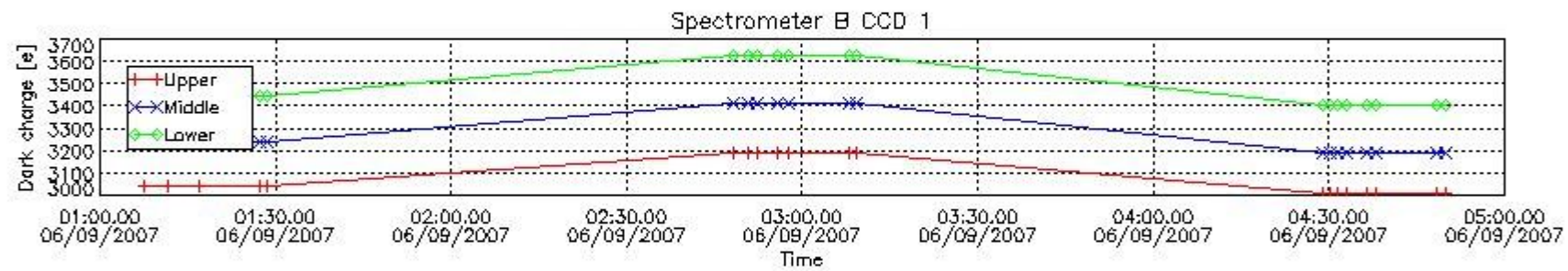
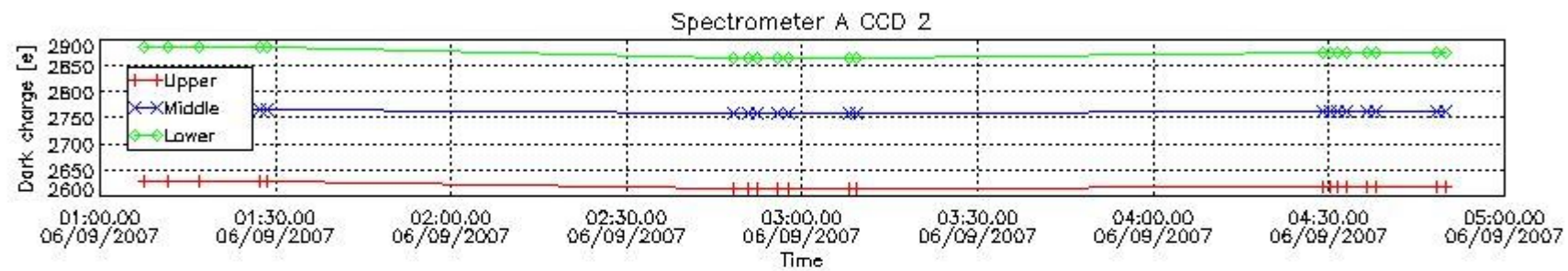
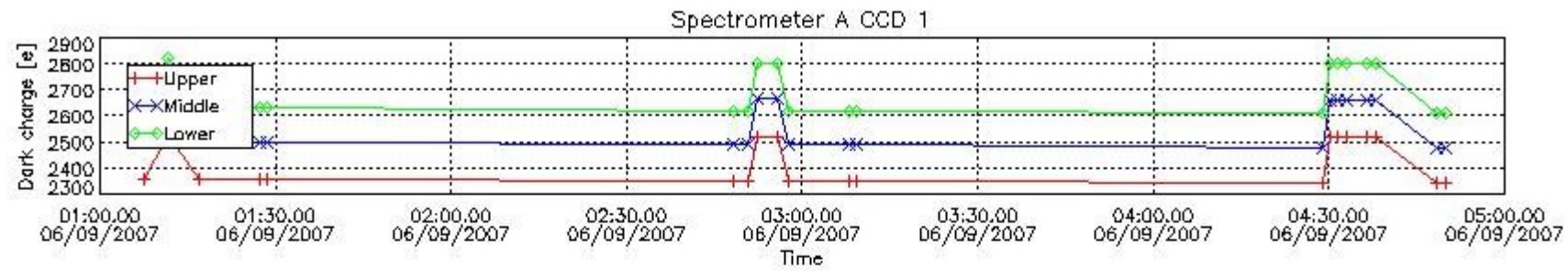
### 4. Overview of dark signal processing per product

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 All products used the DSA observation for the DC computation

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



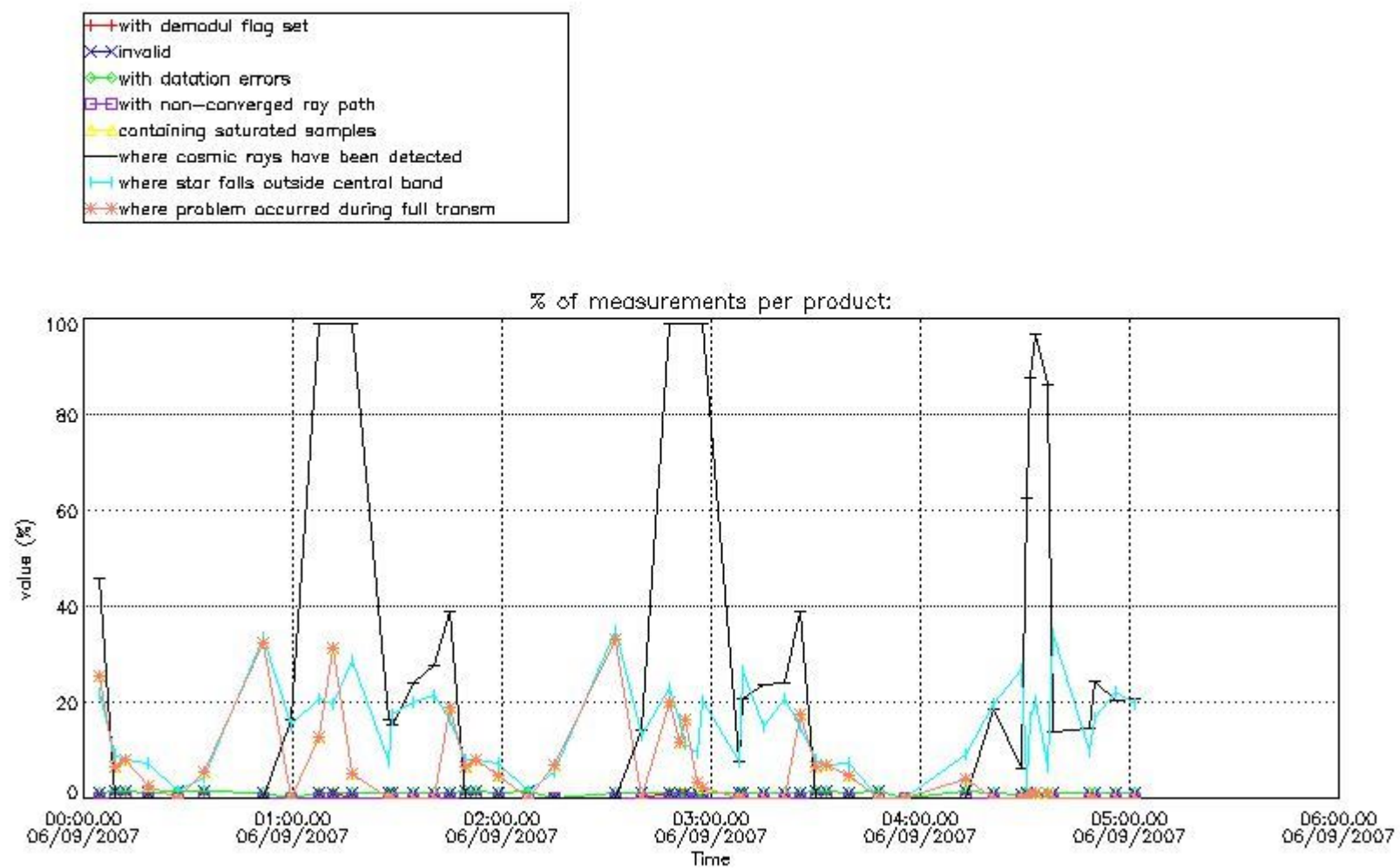
## 5. Demodulation flag and quality information monitoring

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:

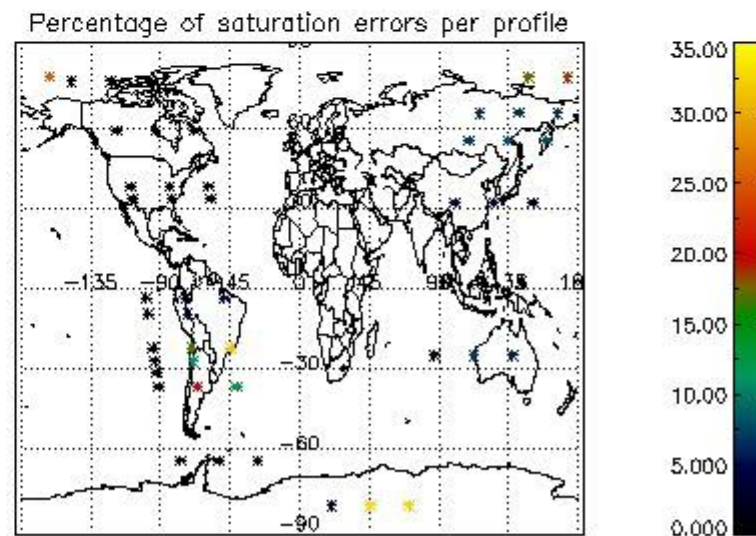
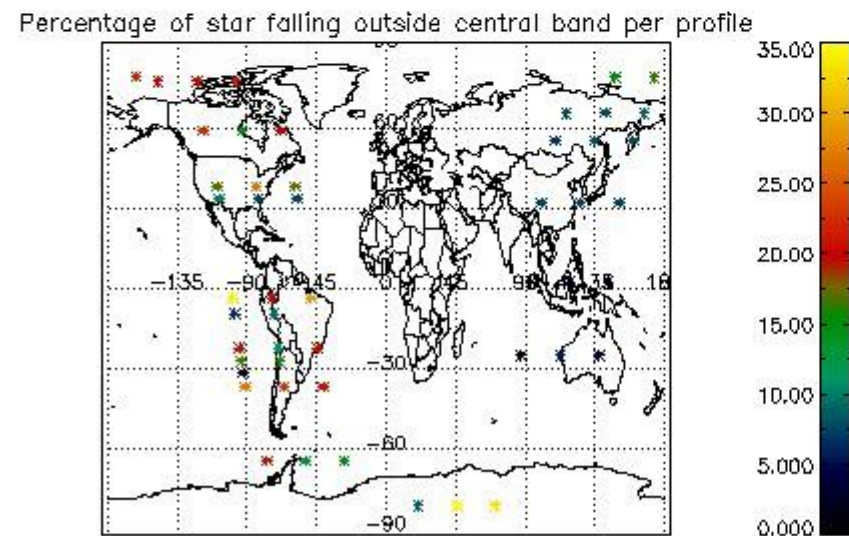
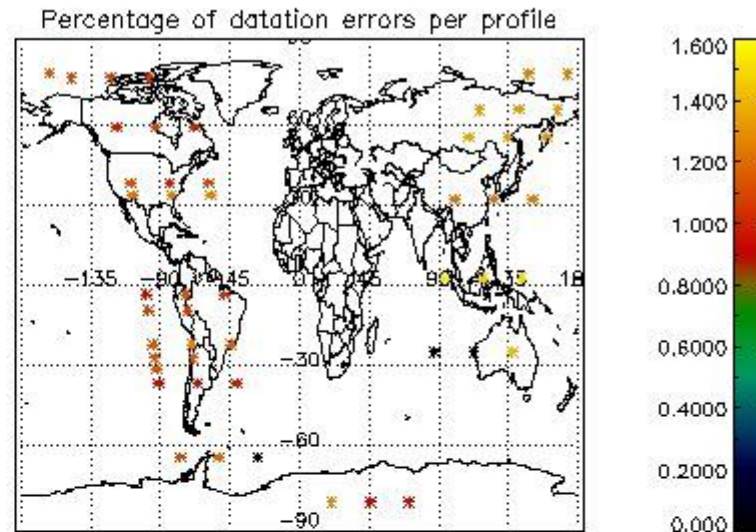
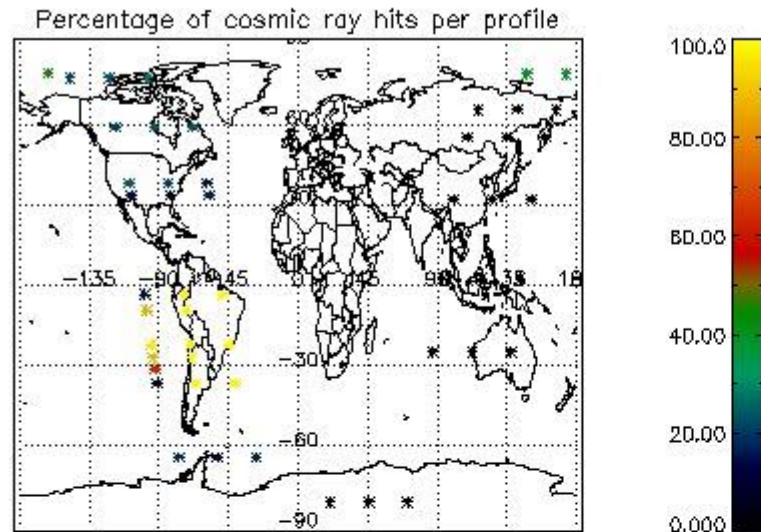
At least one measurement with demodulation flag set:	30.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





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

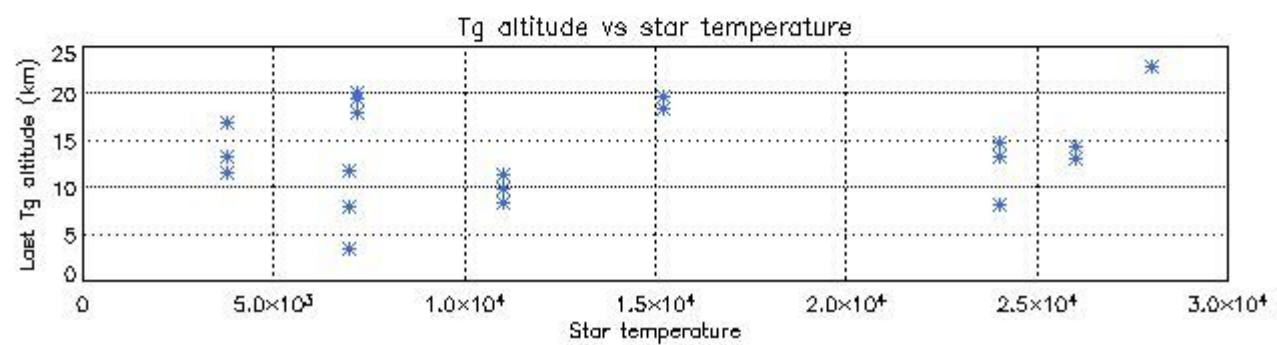
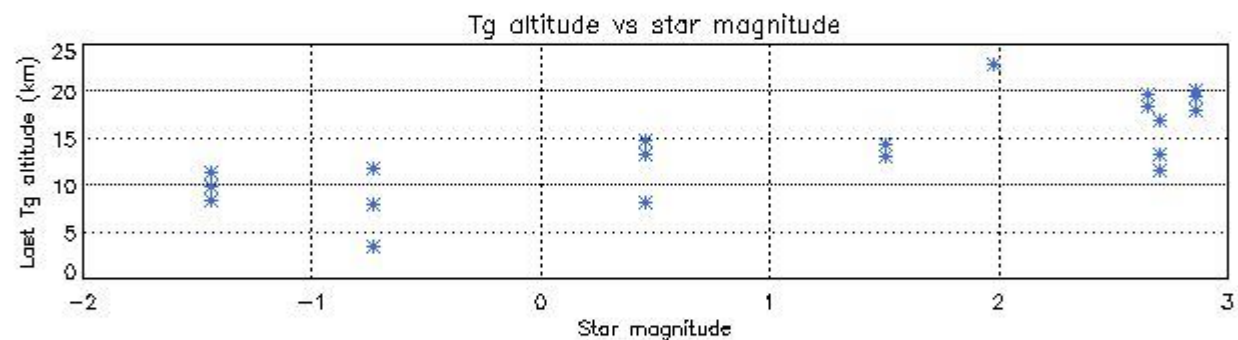
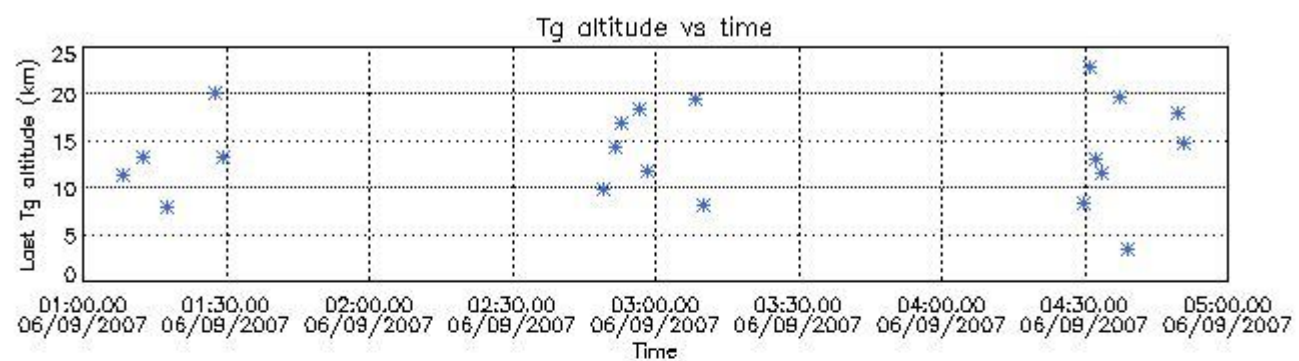
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.816	18.833	13.520
St. deviation:	5.0152	6.1085	1.8598
Maximum:	22.925	28.754	14.864
Minimum:	3.3610	5.4160	11.397
Number of data:	20.000	21.000	3.0000

### 6.2 Plot for DARK limb products

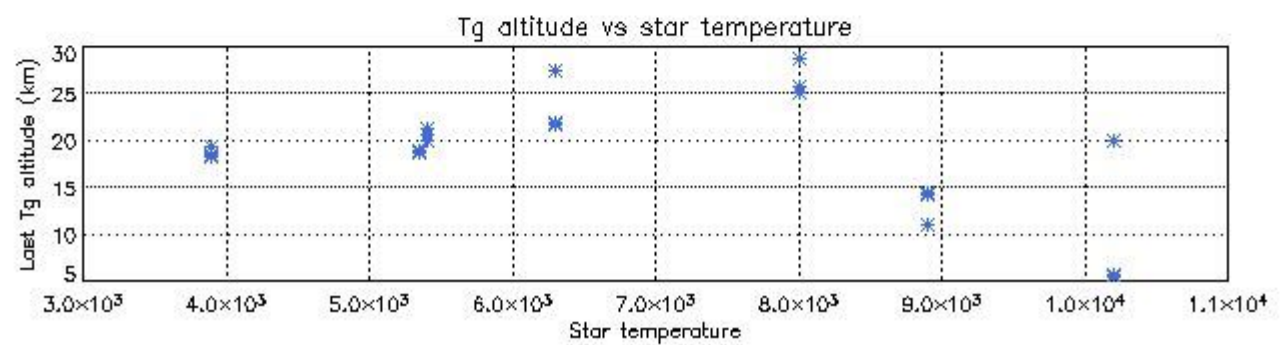
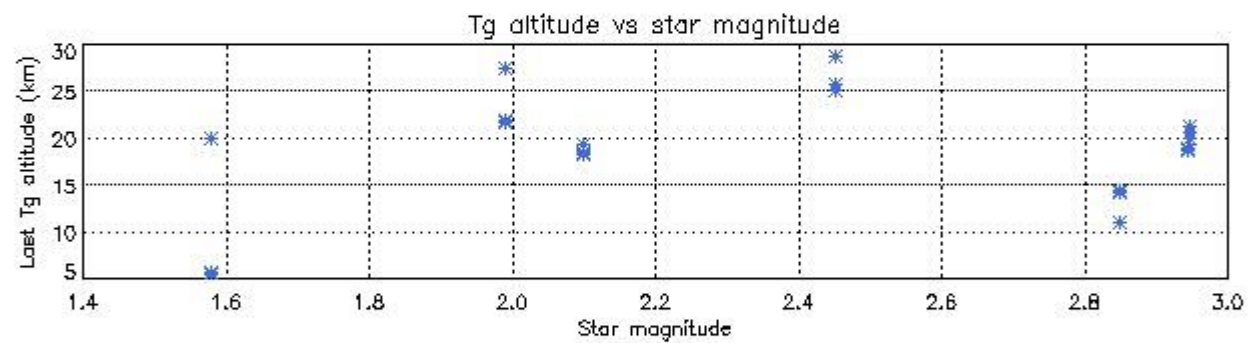
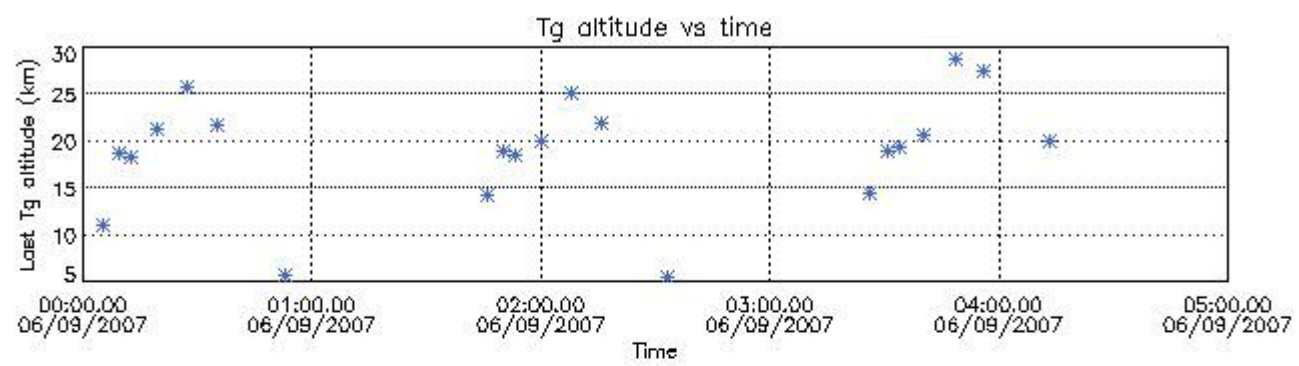


Tangent altitude at which the star is lost



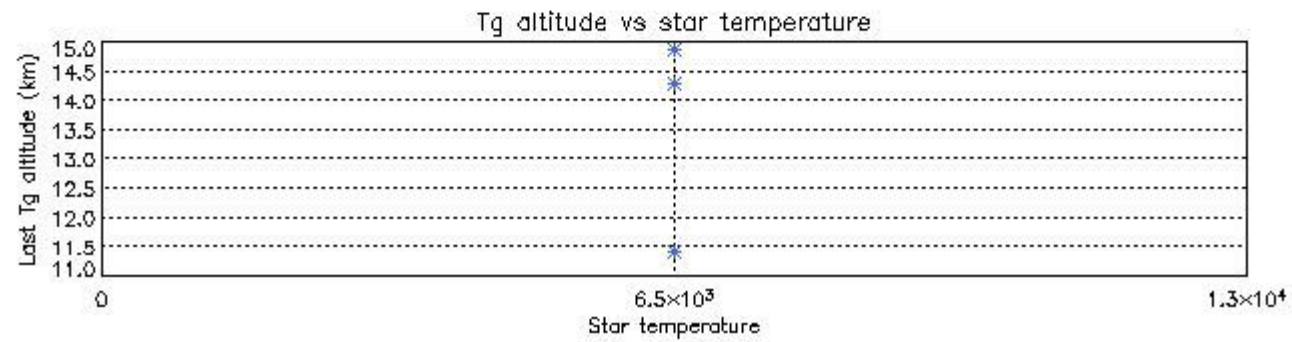
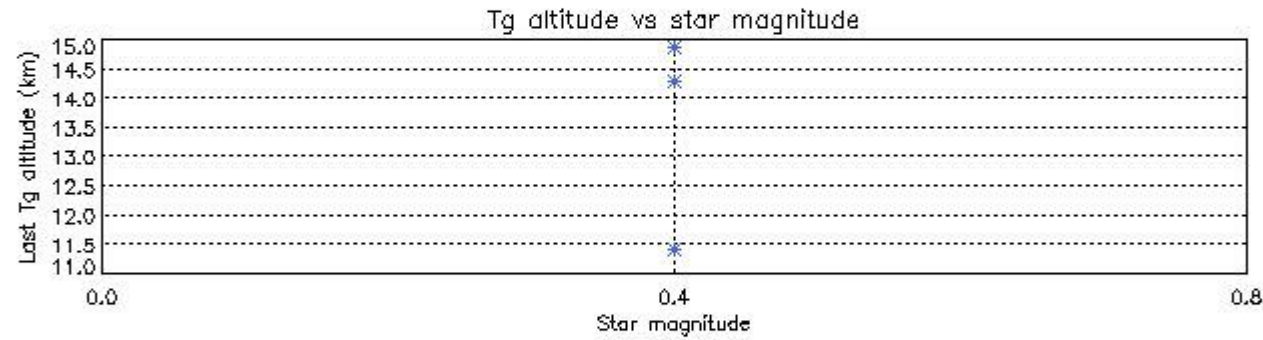
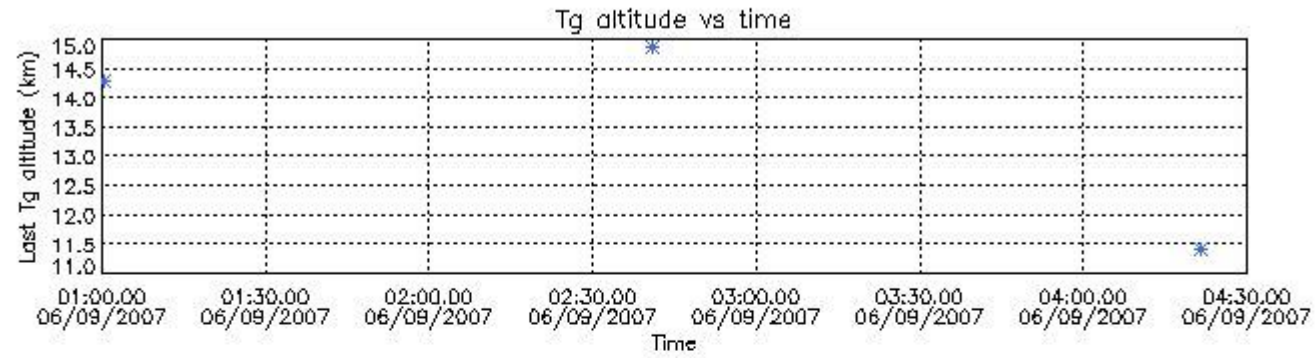
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost



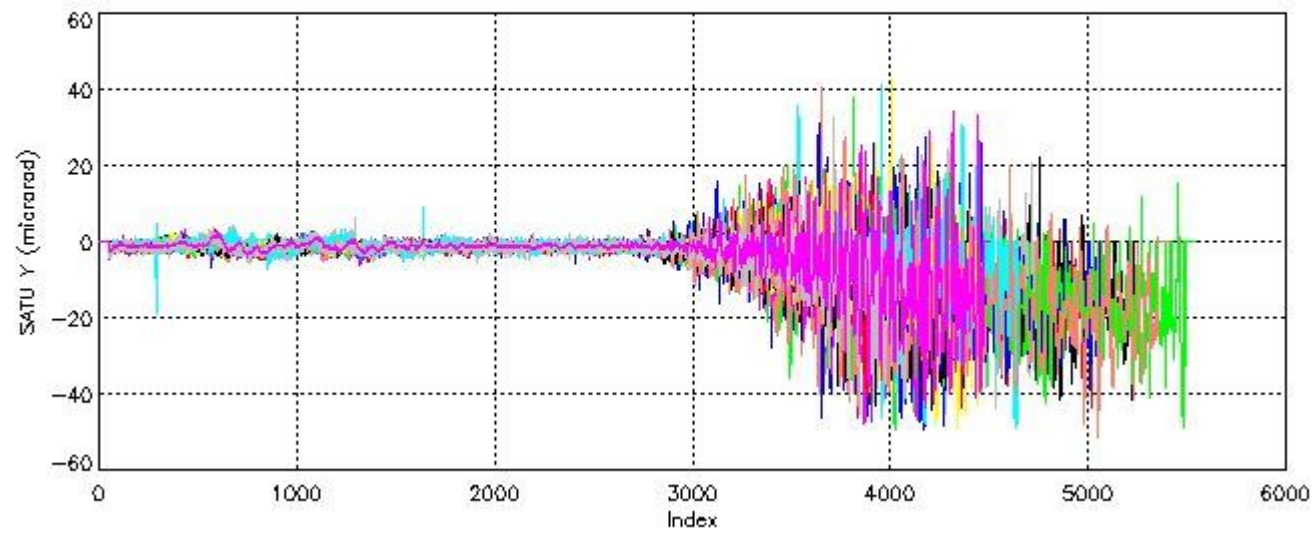
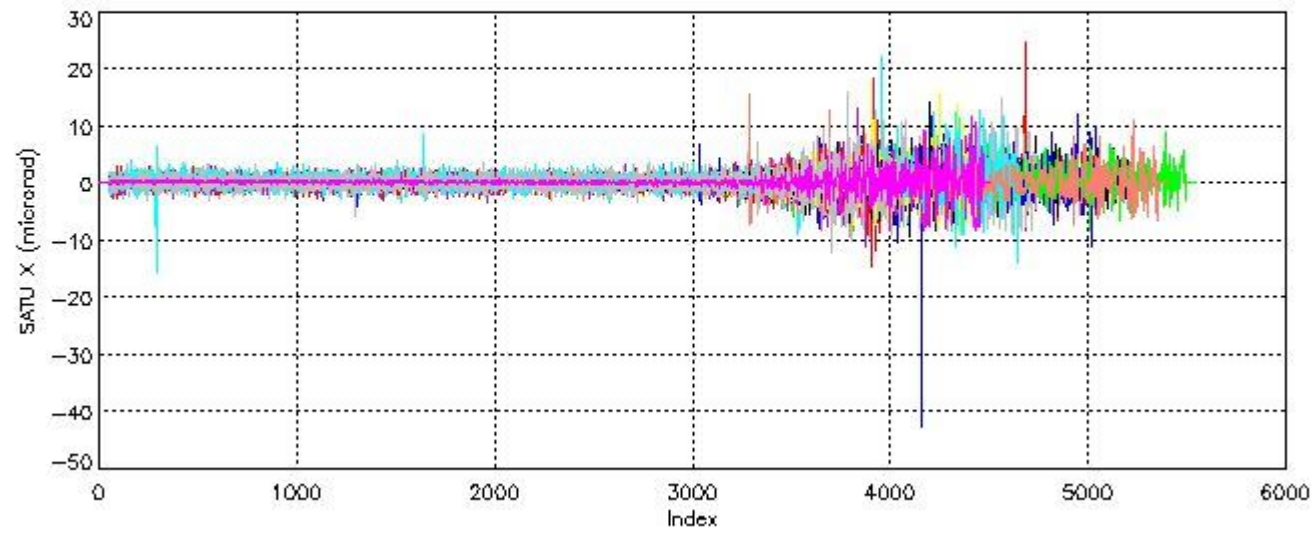
## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.17952	-1.2952	0.15301	-1.3654
St. deviation:	0.44271	1.1059	0.68954	1.2455
Maximum:	6.5000	4.6000	3.4000	3.5000
Minimum:	-15.500	-19.200	-3.5000	-5.8000

Number of data:	19700.	19700.	17850.	17850.
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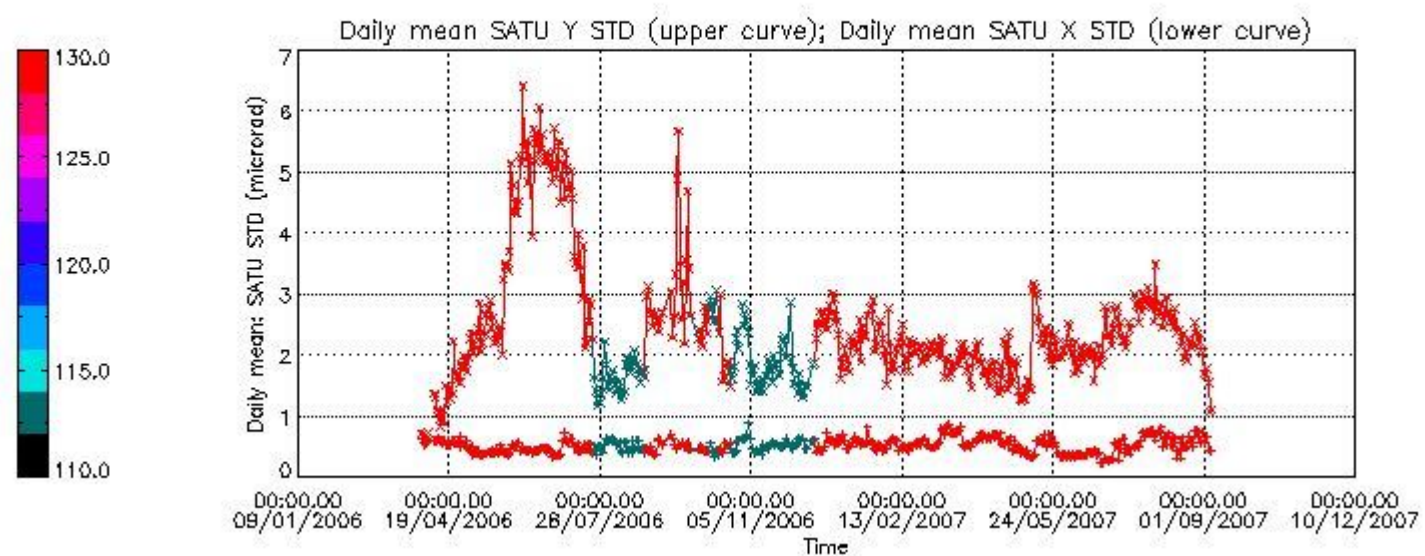
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

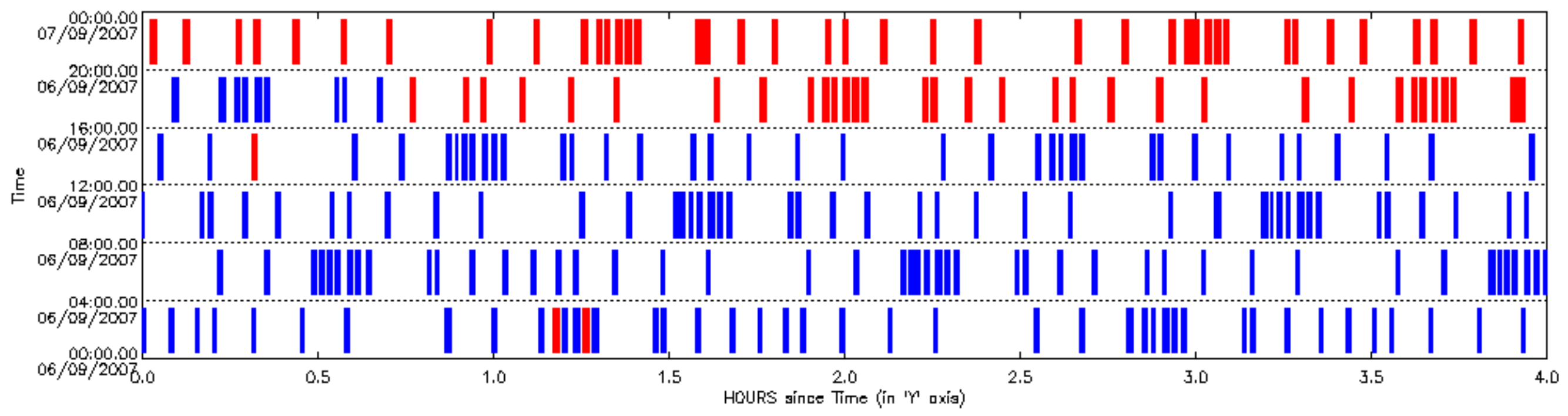
Lower curve: STD of SATU X axis



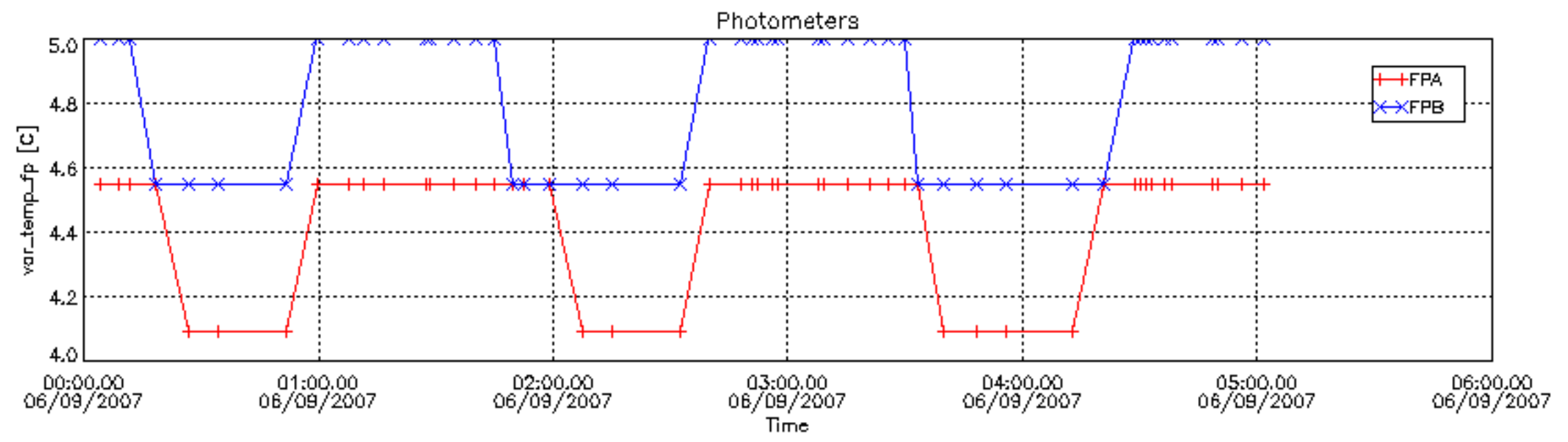
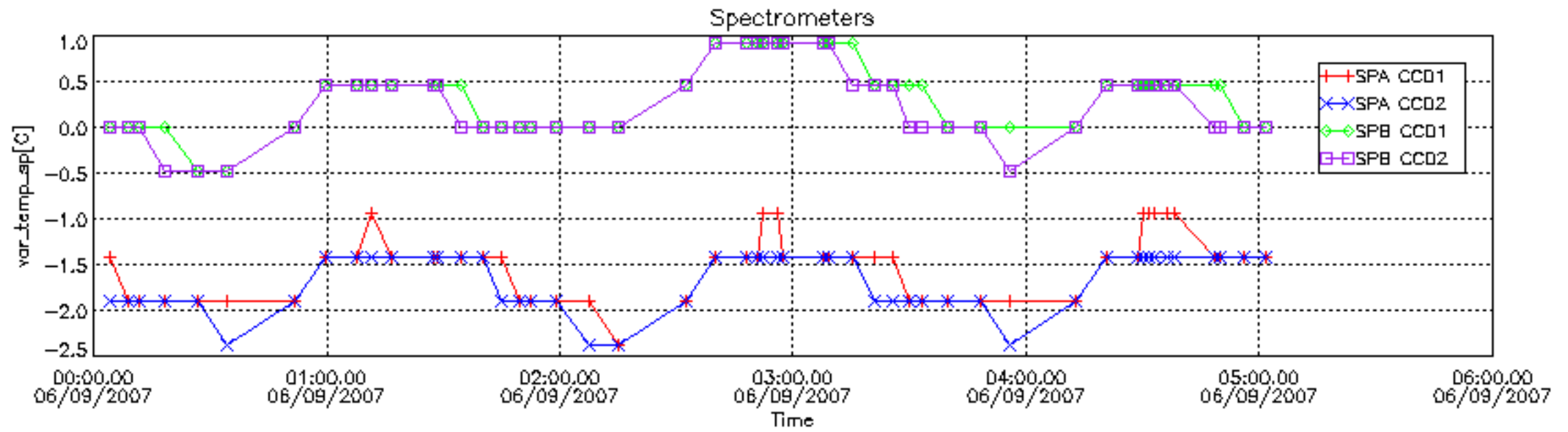
### 8. Auxiliary Data Files used for the production reported in section 2.4

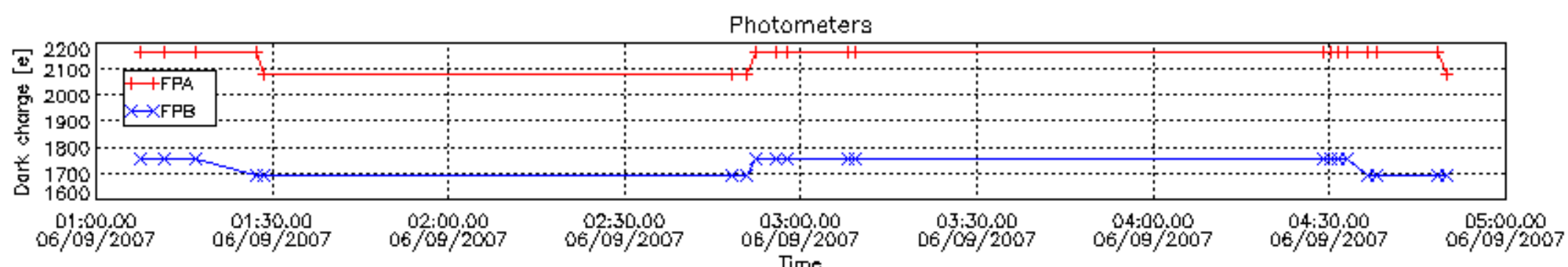
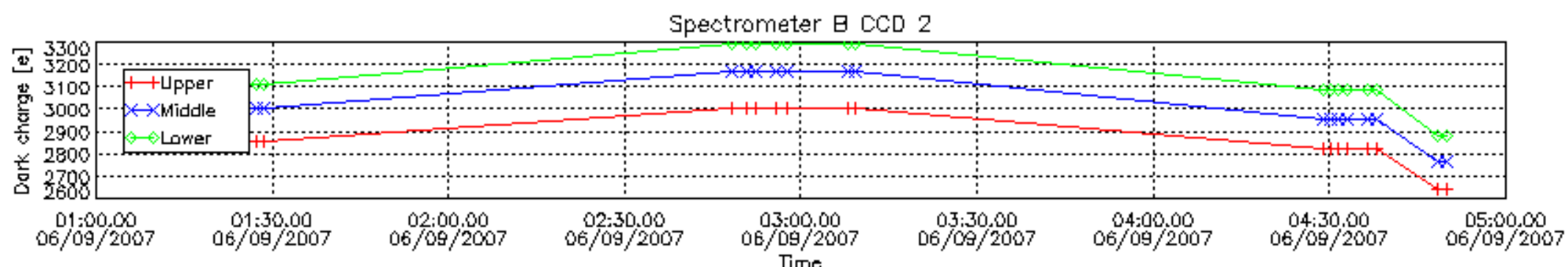
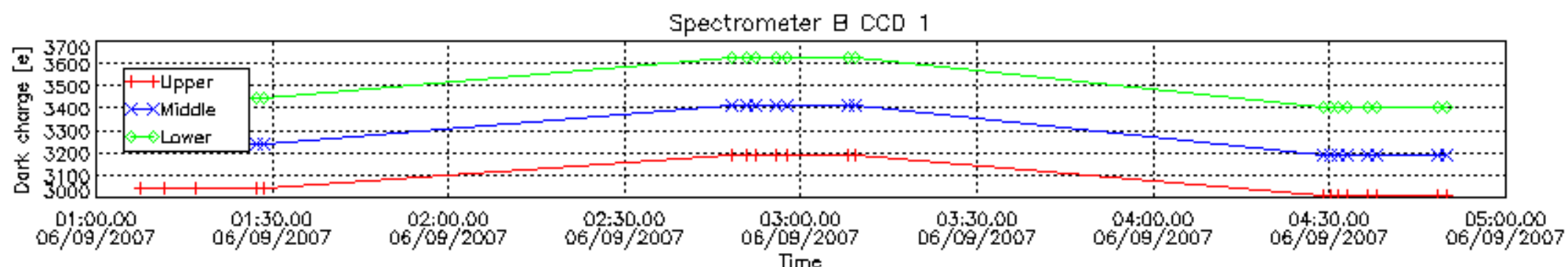
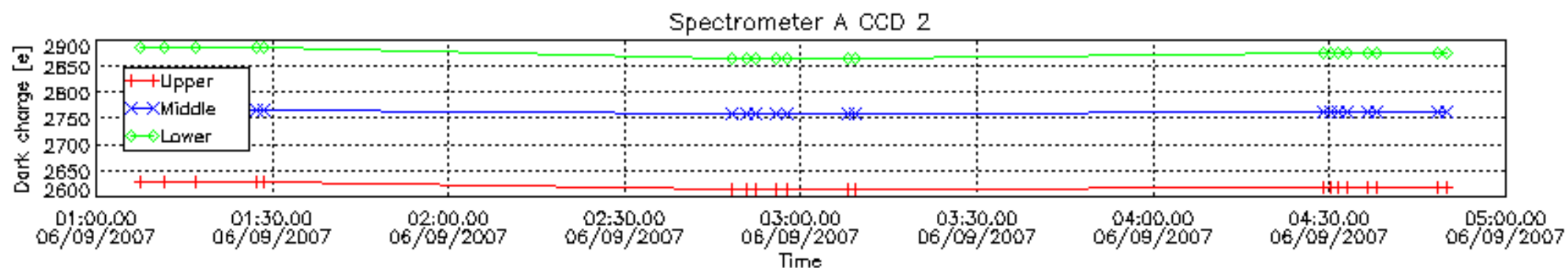
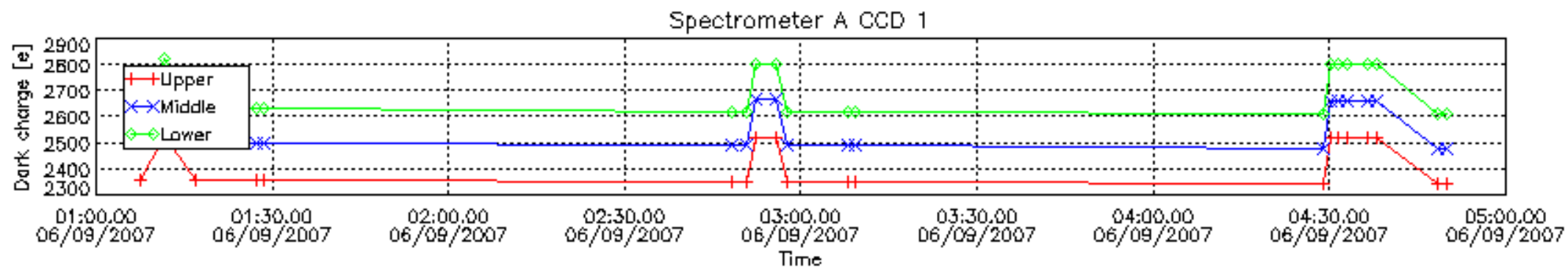
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

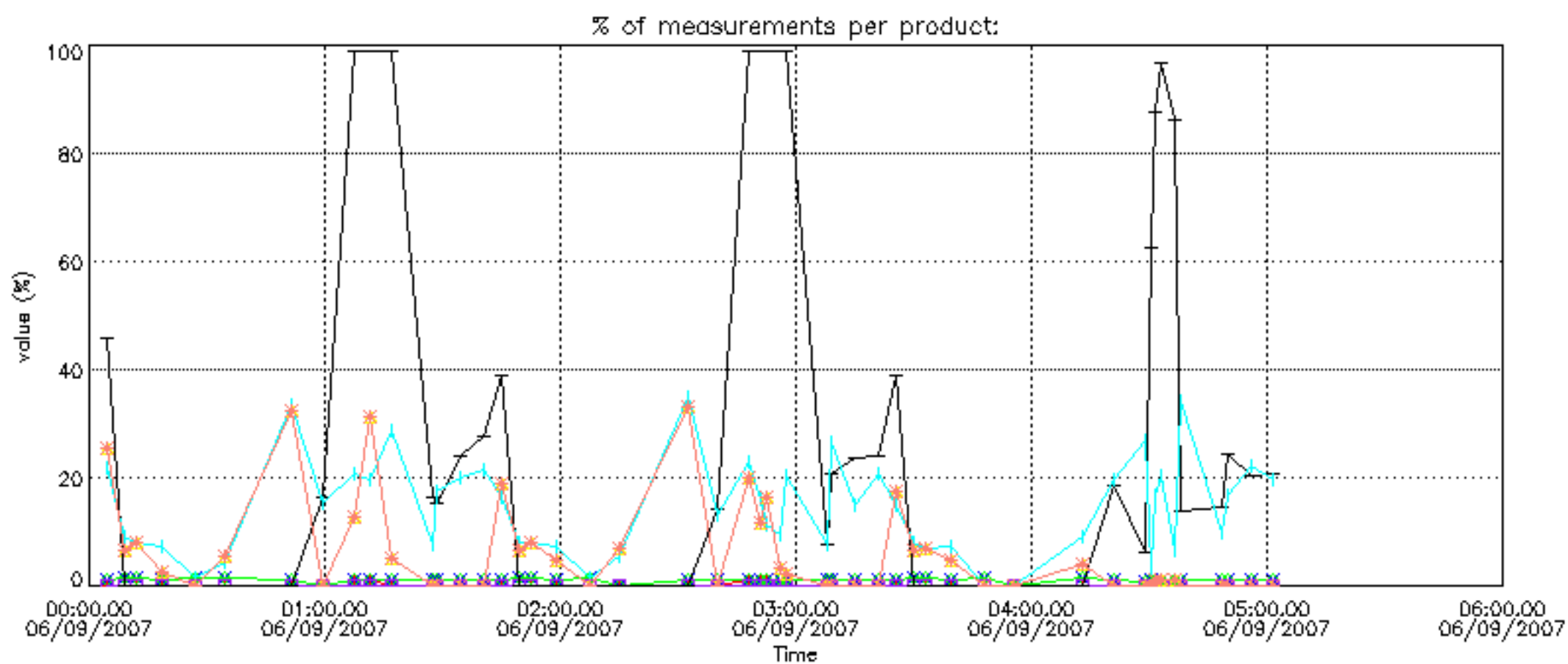
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	06-SEP-2007 00:04:27
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070905_122547_20070904_000000_20100101_000000	1	06-SEP-2007 00:04:27
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	06-SEP-2007 00:04:27
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-SEP-2007 00:04:27
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	06-SEP-2007 00:04:27
ECMWF_FILE	AUX_ECF_AXNECM20070905_062111_20070905_210000_20070906_090000	1	06-SEP-2007 00:04:27
ECMWF_FILE	AUX_ECF_AXNECM20070905_181114_20070906_030000_20070906_150000	39	06-SEP-2007 04:12:52
OPTIONAL_ECMWF_FILE	MISSING	1	06-SEP-2007 00:04:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070905_214200_000057382061_00229_28840_4115.N1	1	06-SEP-2007 00:04:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070905_232257_000057382061_00230_28841_4116.N1	9	06-SEP-2007 01:07:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070906_010354_000038252061_00231_28842_4117.N1	22	06-SEP-2007 02:32:16





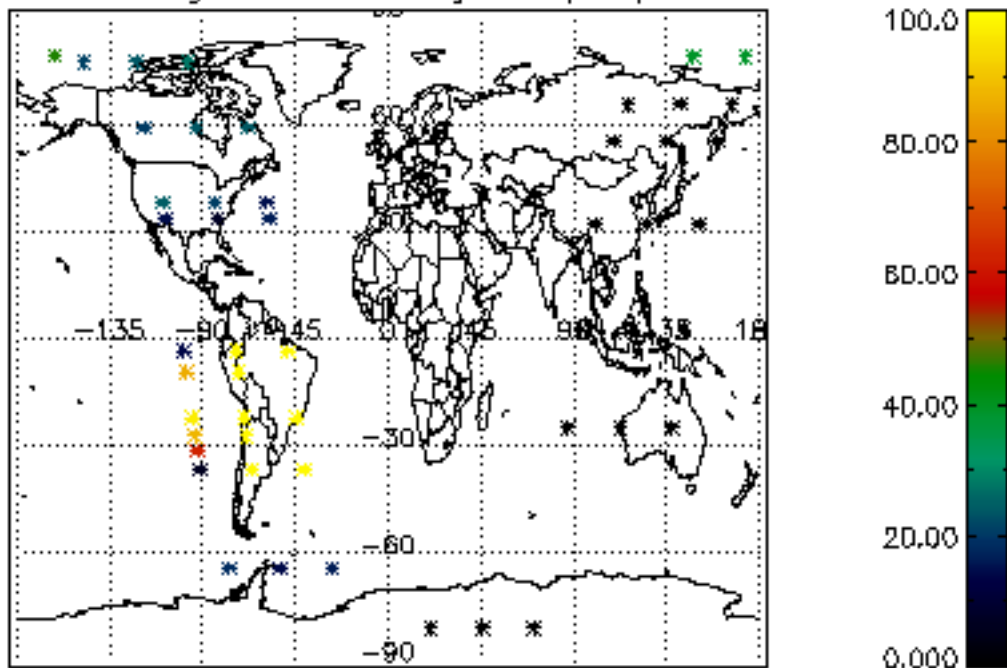




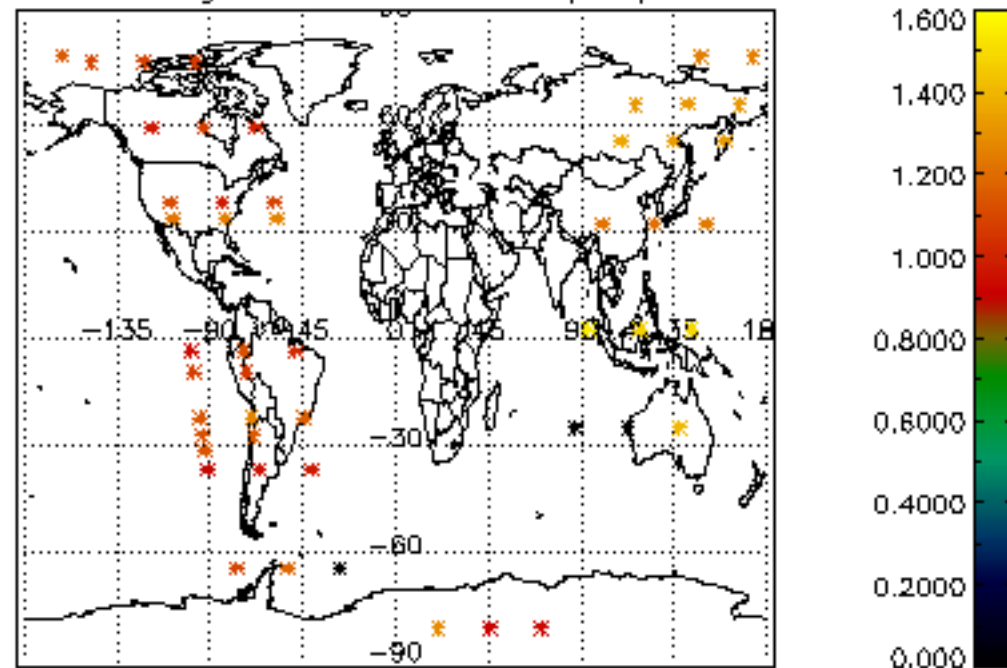




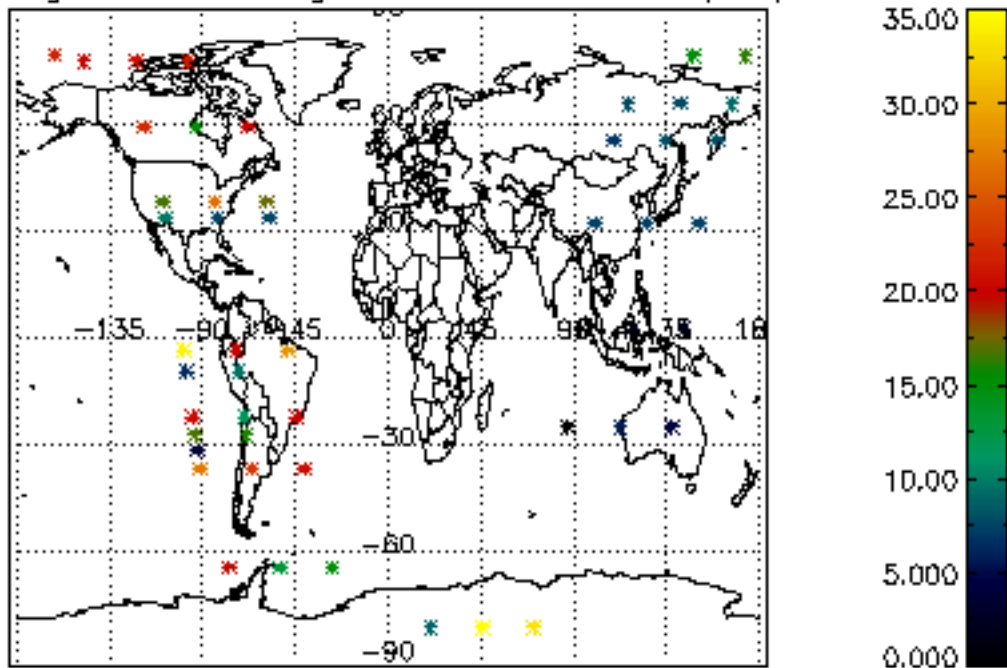
Percentage of cosmic ray hits per profile



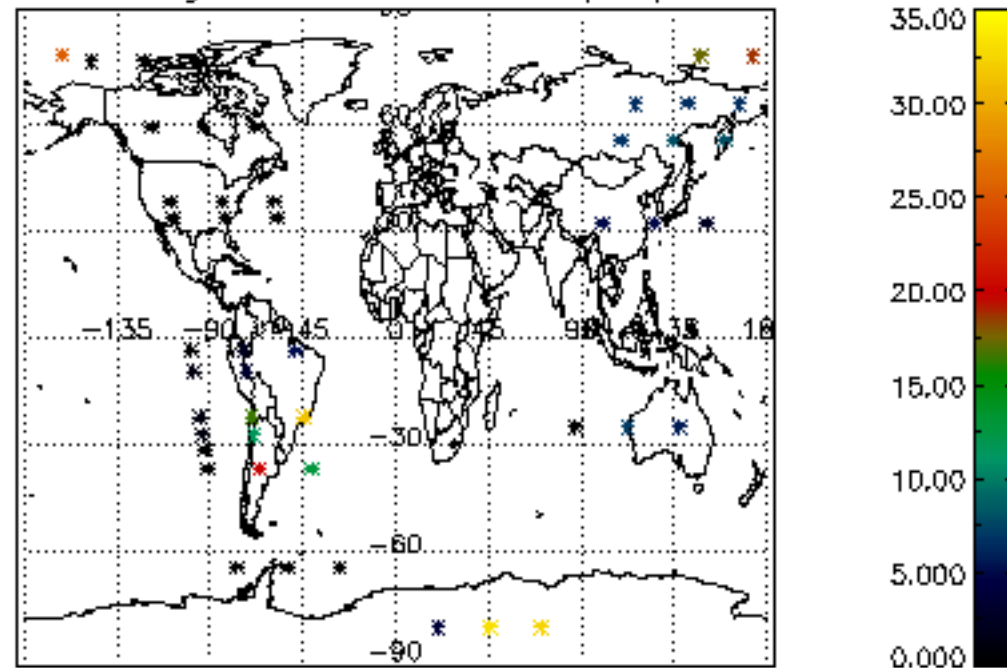
Percentage of datation errors per profile



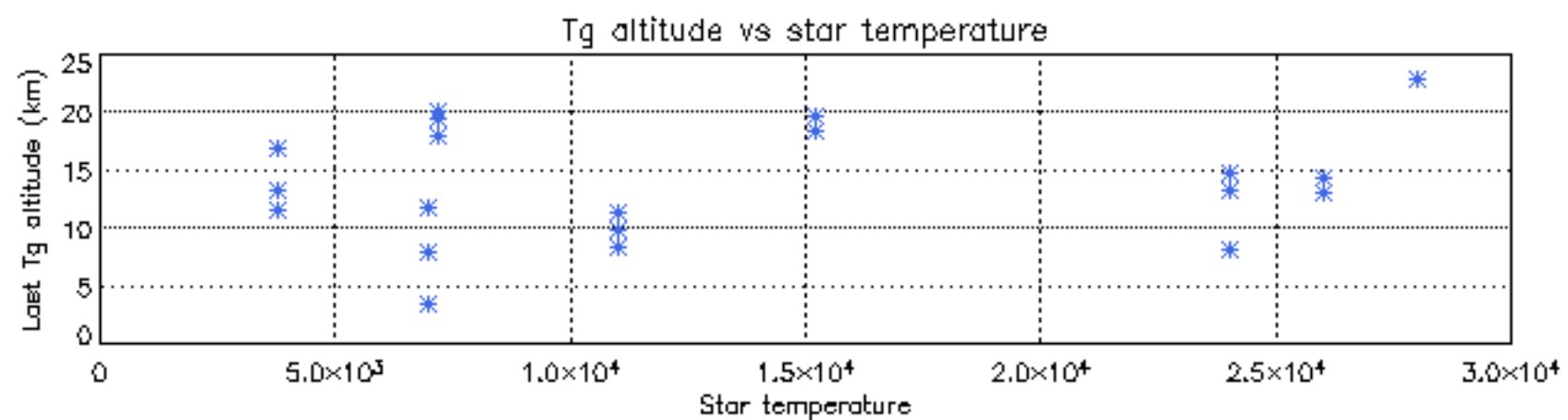
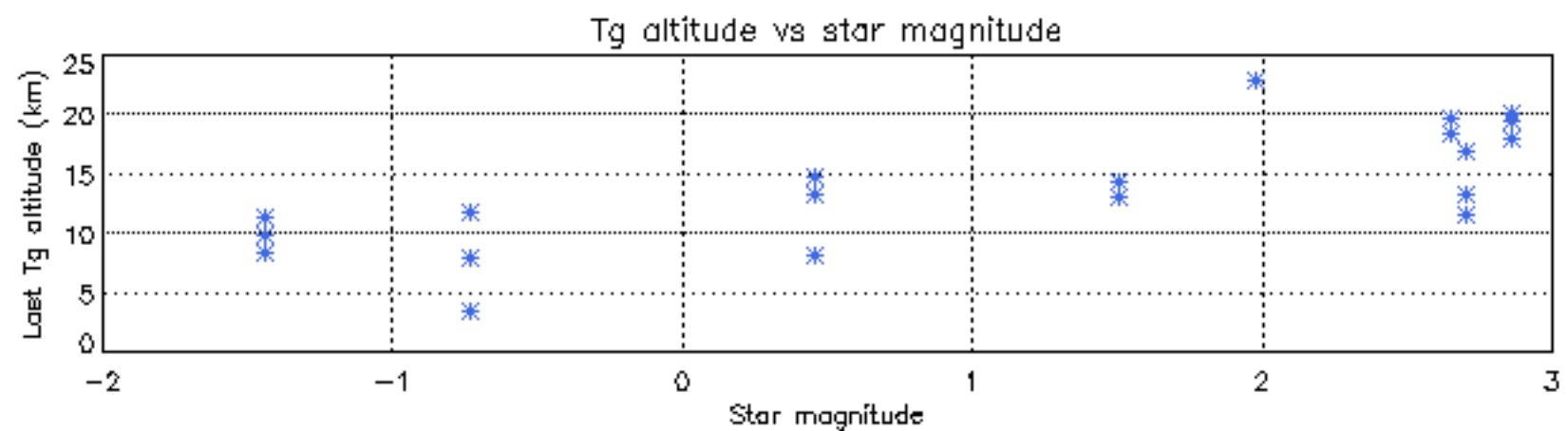
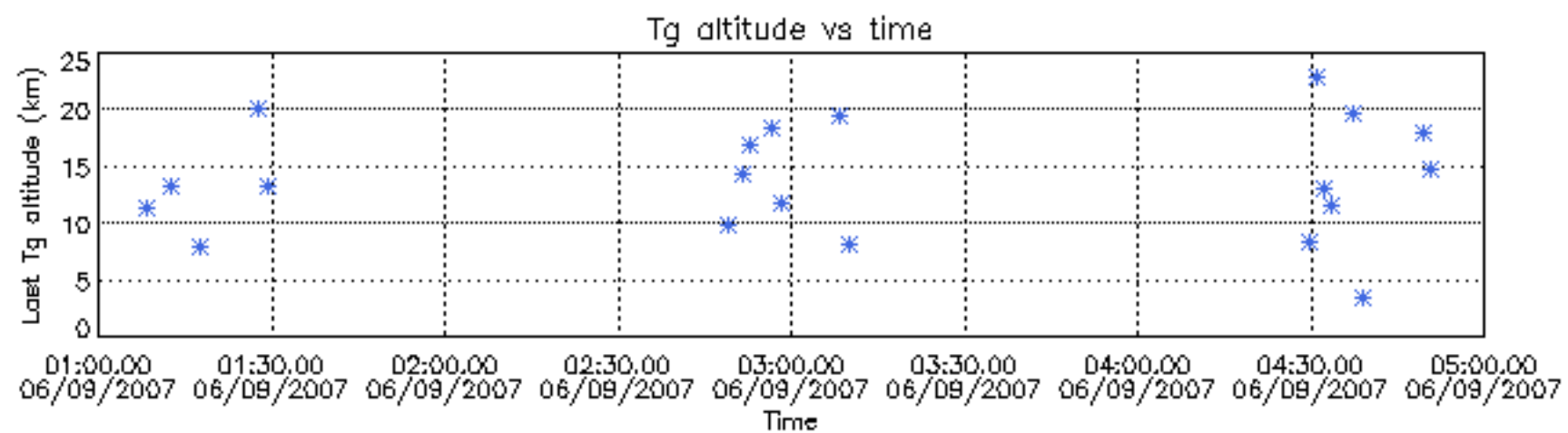
Percentage of star falling outside central band per profile



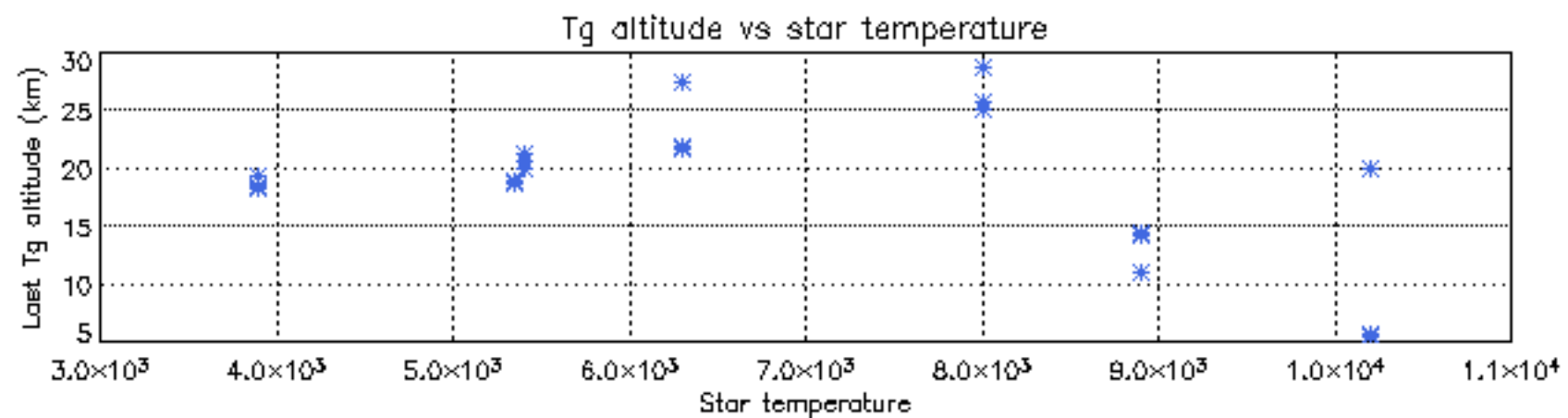
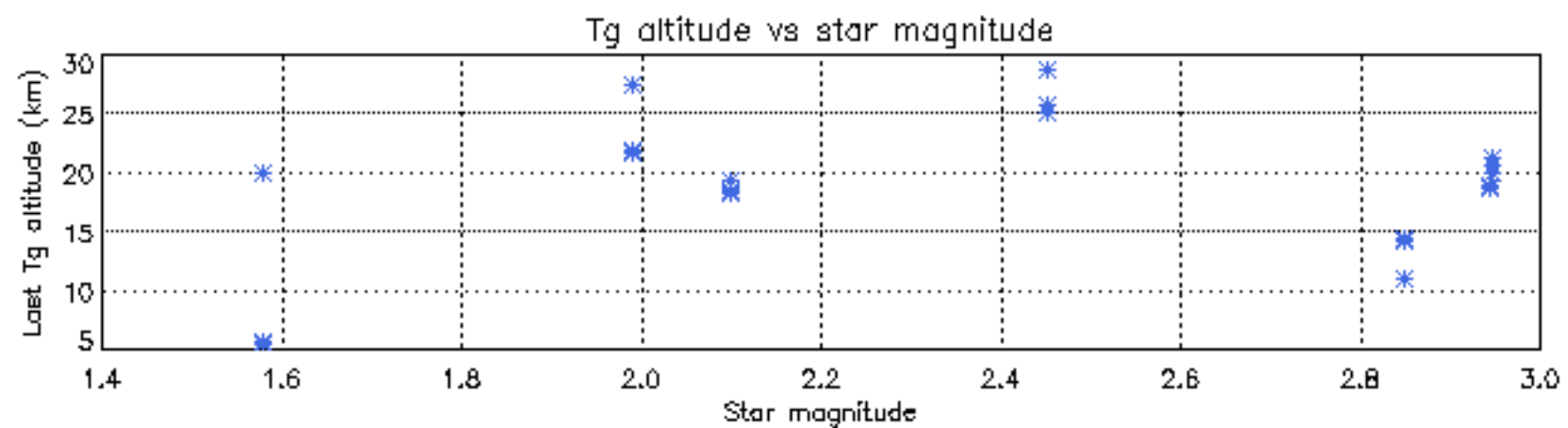
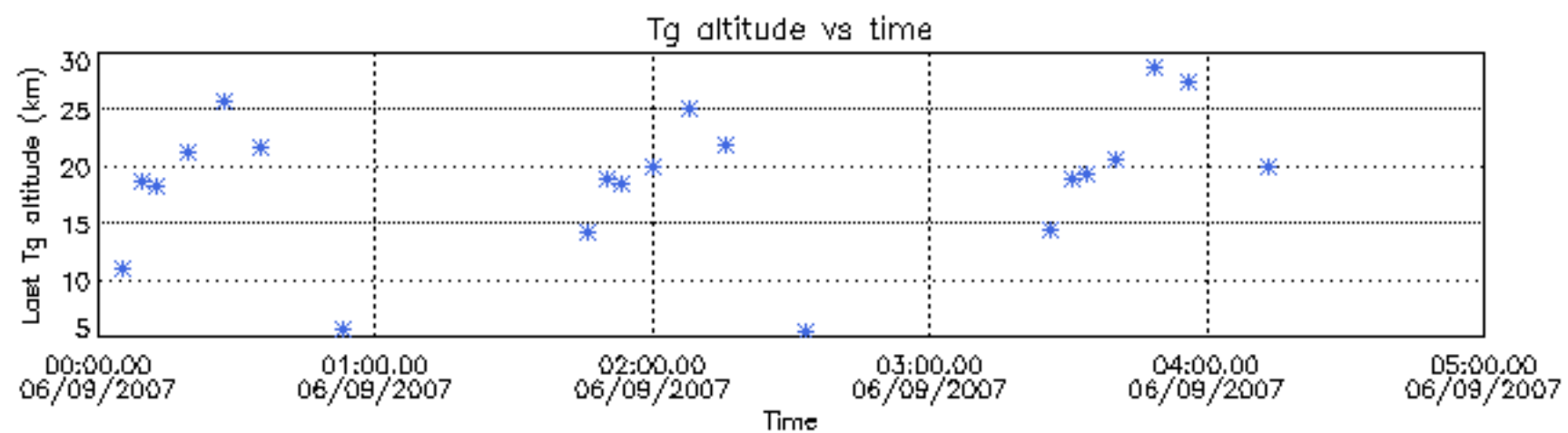
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

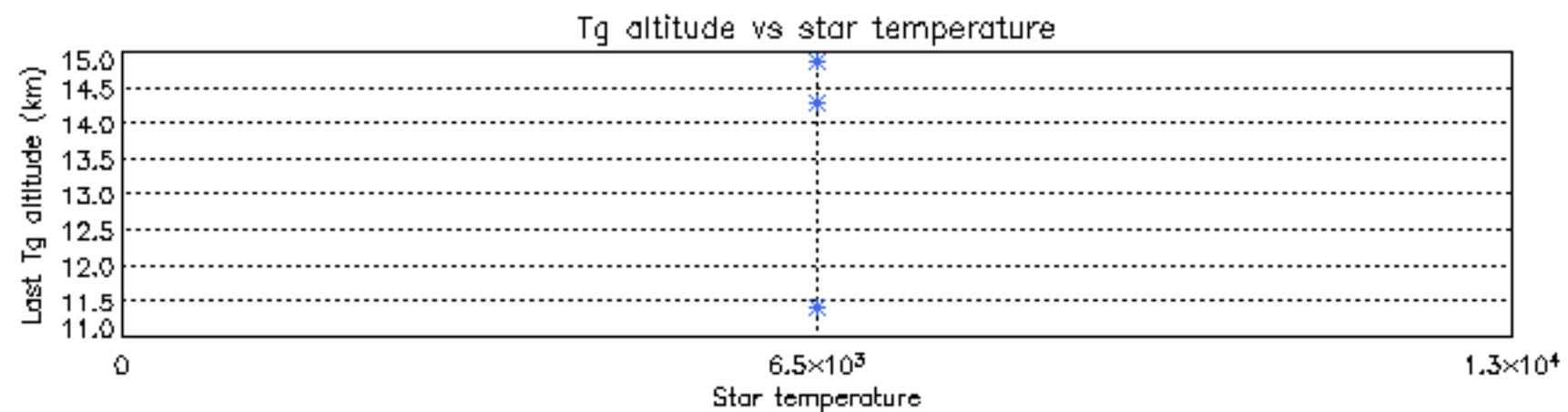
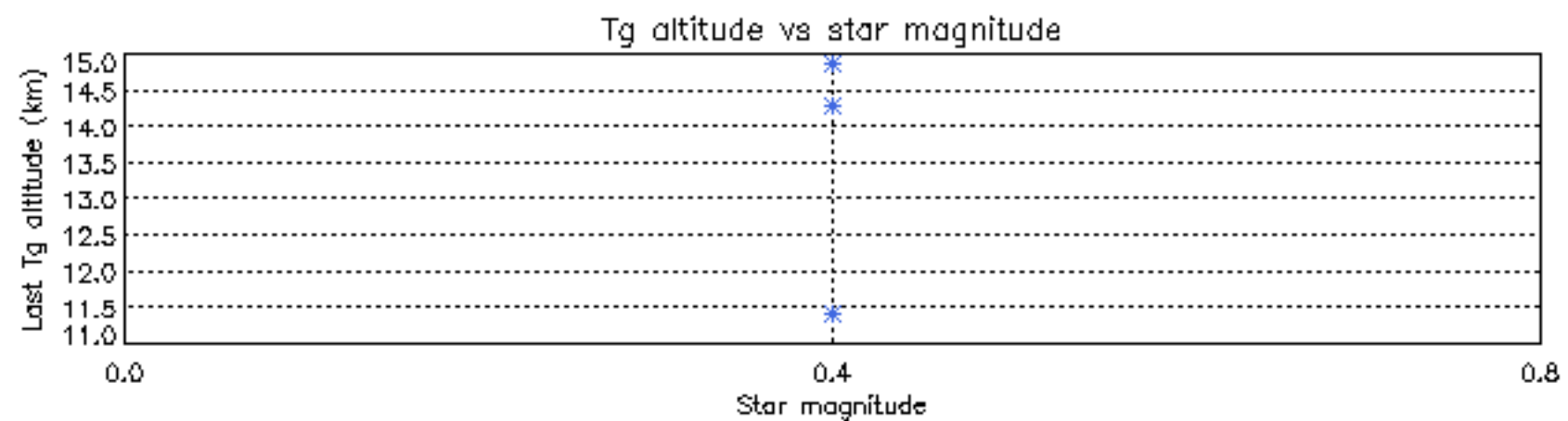
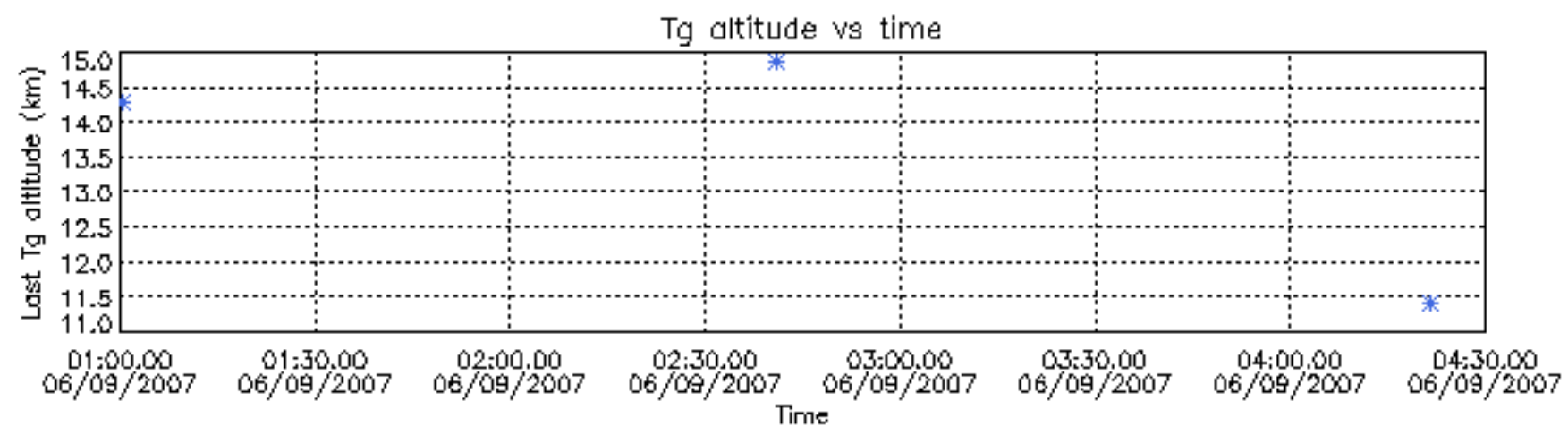


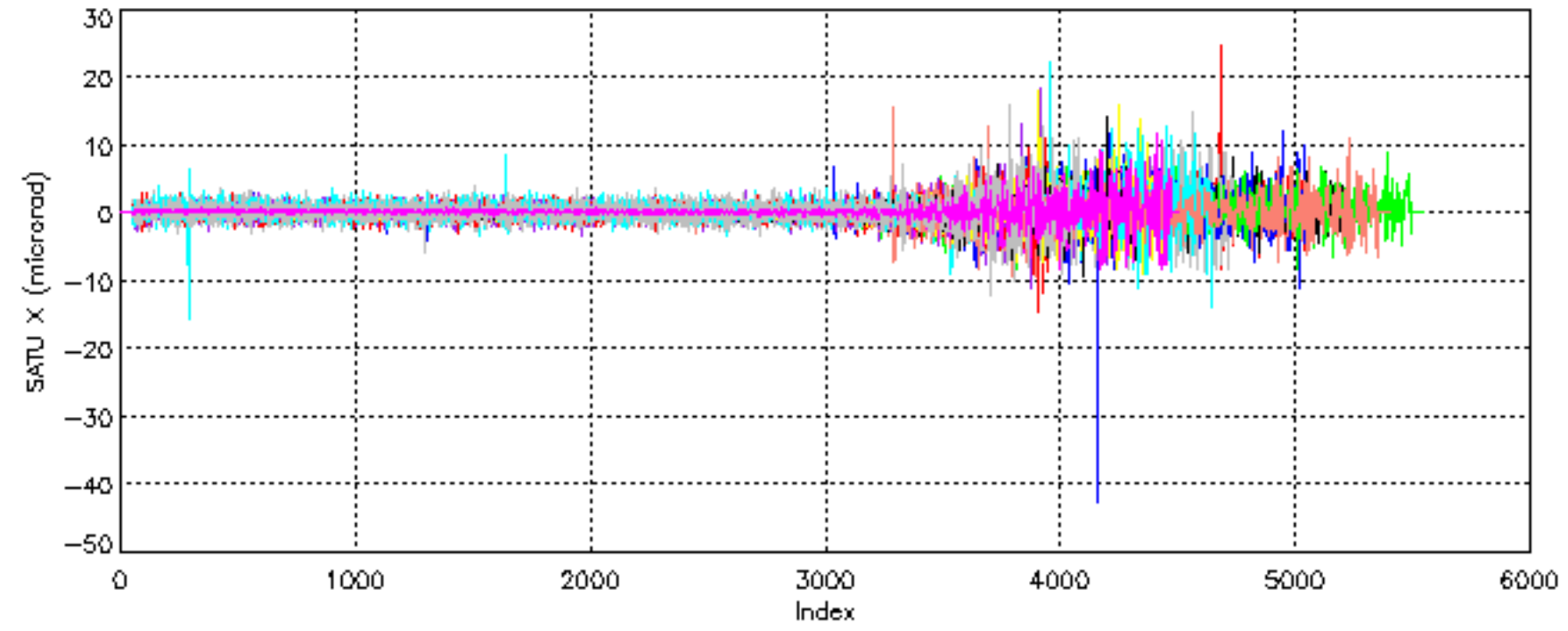
Tangent altitude at which the star is lost

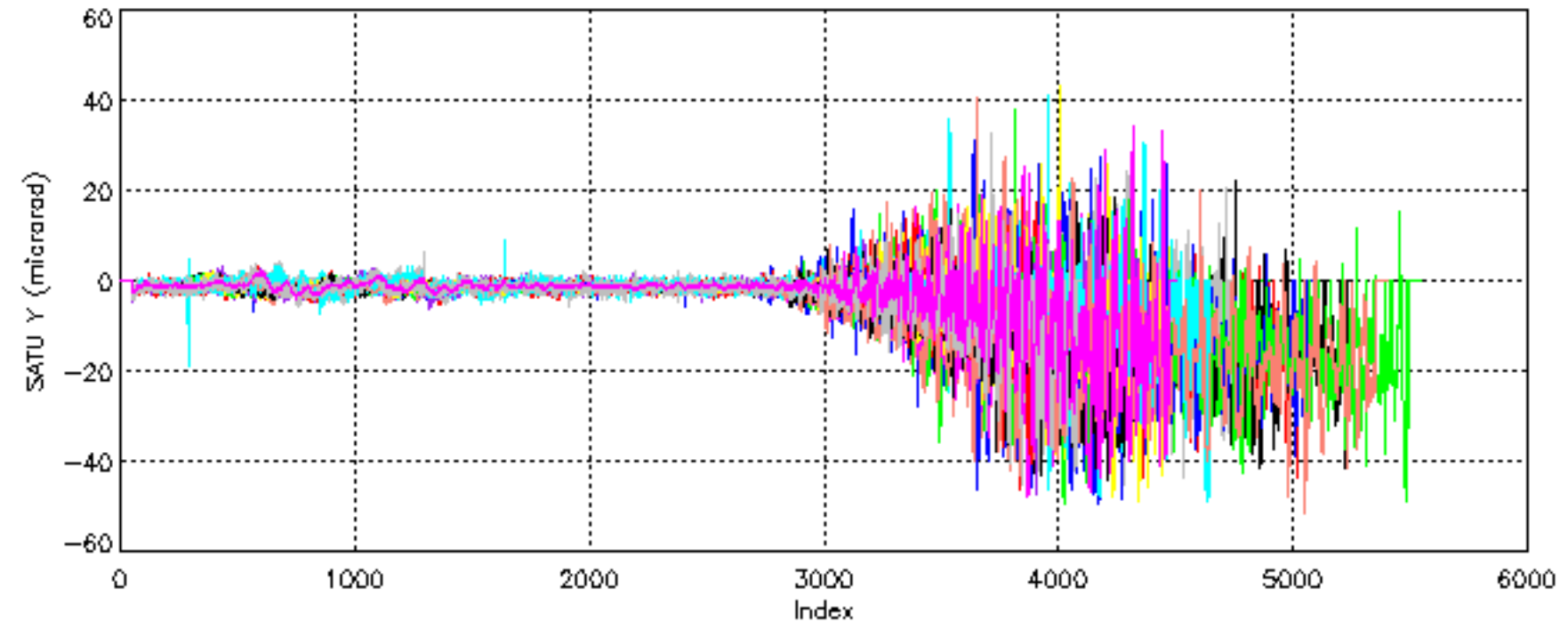


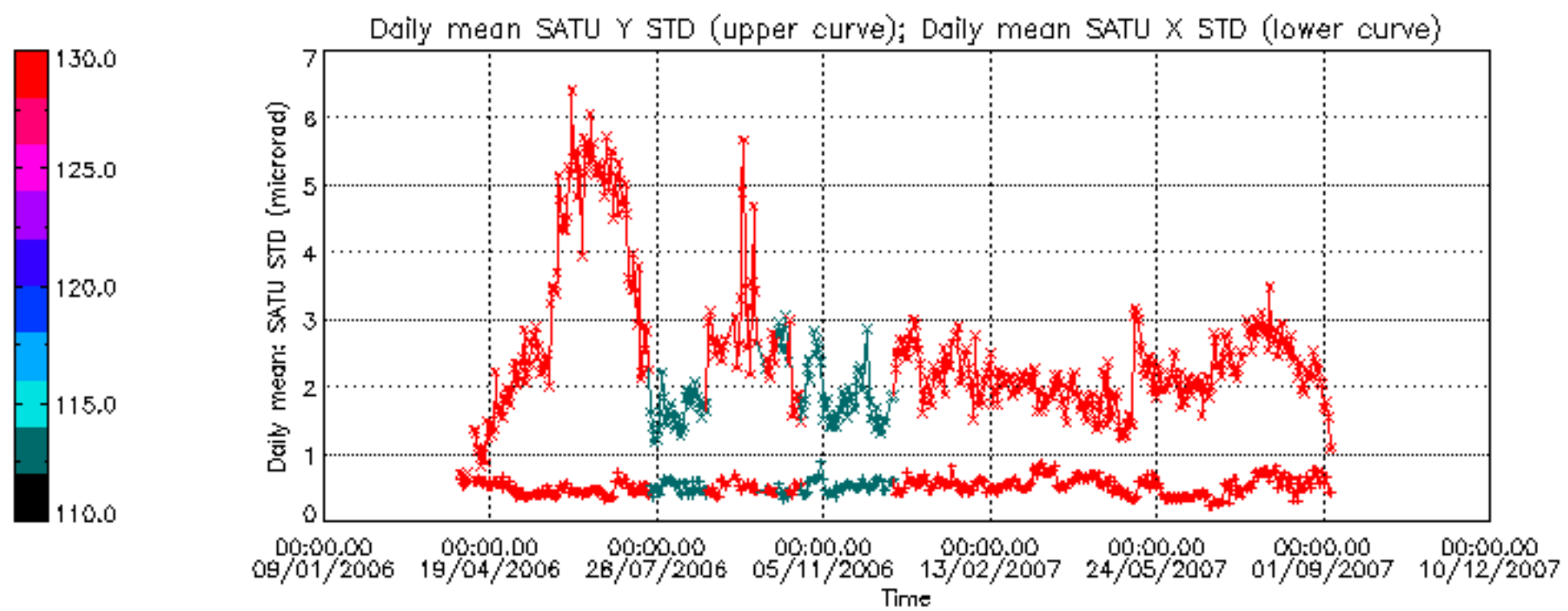


Tangent altitude at which the star is lost











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1; -666.0; 01-SEP-2007 00:23:42; Dark ; 48.5; 1; 9Alp CMA ; -1.44; 11000;occ; 97; 0;28770  
 2; -499.7; 01-SEP-2007 00:26:28; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;28770  
 3; -304.8; 01-SEP-2007 00:29:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28770  
 4; 523.8; 01-SEP-2007 00:43:32; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28771  
 5; 600.3; 01-SEP-2007 00:44:48; Dark ; 55.5; 9; Alp Eri ; 0.45; 24000;occ; 111; 0;28771  
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 7; 1327.7; 01-SEP-2007 00:56:56; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28771  
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 9; 1807.0; 01-SEP-2007 01:04:55; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28771  
 10; 1895.7; 01-SEP-2007 01:06:24; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28771  
 11; 2075.7; 01-SEP-2007 01:09:24; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28771  
 12; 2677.9; 01-SEP-2007 01:19:26; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28771  
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 15; 4451.6; 01-SEP-2007 01:49:00; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 0;28771  
 16; 4610.6; 01-SEP-2007 01:51:39; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28771  
 17; 4790.0; 01-SEP-2007 01:54:38; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;28771  
 18; 4912.9; 01-SEP-2007 01:56:41; Dark ; 45.5; 8; 10Alp CMi ; 0.40; 6500;occ; 91; 0;28771

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1; -665.2; 01-SEP-2007 02:04:19; Dark ; 52.0; 1; 9Alp CMA ; -1.44; 11000;occ; 104; 0;28771  
 2; -499.2; 01-SEP-2007 02:07:05; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;28771  
 3; -304.1; 01-SEP-2007 02:10:20; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28771  
 4; 524.4; 01-SEP-2007 02:24:08; Dark ; 42.0; 143; Alp Hyi ; 2.86; 7200;occ; 84; 0;28772  
 5; 601.0; 01-SEP-2007 02:25:25; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;28772  
 6; 1049.1; 01-SEP-2007 02:32:53; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;28772  
 7; 1328.1; 01-SEP-2007 02:37:32; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28772  
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 10; 1895.8; 01-SEP-2007 02:47:00; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28772  
 11; 2075.7; 01-SEP-2007 02:50:00; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28772  
 12; 2678.0; 01-SEP-2007 03:00:02; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;28772  
 13; 2976.3; 01-SEP-2007 03:05:00; Bright; 33.0; 89; 5Alp Cep ; 2.45; 8000;occ; 66; 0;28772  
 14; 3434.8; 01-SEP-2007 03:12:39; Bright; 31.5; 49; 1Alp UMi ; 1.99; 6300;occ; 63; 0;28772

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 17; 2678.2; 01-SEP-2007 04:40:38; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;28773  
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 9; 525.7; 01-SEP-2007 05:45:22; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28774  
 10; 602.3; 01-SEP-2007 05:46:38; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;28774  
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14; 1807.3; 01-SEP-2007 06:06:43; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28774
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 6; 2075.5; 01-SEP-2007 17:55:23; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28781
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 9; 4453.2; 01-SEP-2007 18:35:01; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;28781
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11; 4916.2; 01-SEP-2007 18:42:44; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;28781
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 3; 1620.2; 01-SEP-2007 19:28:24; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;28782
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 8; 3434.6; 01-SEP-2007 19:58:38; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28782
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11; 4916.4; 01-SEP-2007 20:23:20; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;28782
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13; 5542.3; 01-SEP-2007 20:33:46; Dark ; 40.5; 23; 21Eps CMA ; 1.50; 26000;occ; 81; 0;28782
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 3; -294.9; 02-SEP-2007 01:38:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28785
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9; 1620.7; 02-SEP-2007 02:10:48; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;28786  
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9; 532.7; 02-SEP-2007 03:33:16; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28787  
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11; 1054.0; 02-SEP-2007 03:41:57; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;28787  
12; 1332.4; 02-SEP-2007 03:46:35; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28787  
13; 1620.8; 02-SEP-2007 03:51:24; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;28787  
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17; 2974.9; 02-SEP-2007 04:13:58; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;28787  
18; 3434.6; 02-SEP-2007 04:21:38; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28787

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6; -388.0; 02-SEP-2007 04:58:31; Dark ; 42.5; 177; 1Zet CMA ; 3.02; 26000;occ; 85; 0;28787  
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9; 533.3; 02-SEP-2007 05:13:52; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28788  
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11; 1054.4; 02-SEP-2007 05:22:33; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;28788  
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13; 1621.1; 02-SEP-2007 05:32:00; Dark ; 46.0; 142; 49Del Cap ; 2.85; 8900;occ; 92; 0;28788  
14; 1808.7; 02-SEP-2007 05:35:08; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28788  
15; 1895.6; 02-SEP-2007 05:36:34; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28788  
16; 2075.2; 02-SEP-2007 05:39:34; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28788  
17; 2974.9; 02-SEP-2007 05:54:34; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28788  
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3; 1622.3; 02-SEP-2007 20:37:25; Dark ; 48.0; 142; 49Del Cap ; 2.85; 8900;occ; 96; 0;28797  
4; 1809.5; 02-SEP-2007 20:40:32; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28797  
5; 1895.5; 02-SEP-2007 20:41:58; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28797  
6; 2074.9; 02-SEP-2007 20:44:57; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28797  
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9; 4455.3; 02-SEP-2007 21:24:38; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;28797  
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7; 538.7; 02-SEP-2007 21:59:57; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28798  
8; 616.9; 02-SEP-2007 22:01:15; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;28798

9; 1057.3; 02-SEP-2007 22:08:35; Dark ; 44.0; 63; Bet Gru ; 2.15; 2800;occ; 88; 0;28798  
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6; 706.7; 14-SEP-2007 02:18:32; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;28958
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8; 2186.0; 14-SEP-2007 02:43:11; Bright; 40.5; 90; 54Alp Peg ; 2.49; 11000;occ; 81; 0;28958
9; 2421.2; 14-SEP-2007 02:47:06; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;28958
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5; 3148.1; 14-SEP-2007 21:25:48; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;28969
6; 4478.7; 14-SEP-2007 21:47:59; Bright; 41.5; 24; 66Alp Gem ; 1.58; 10200;occ; 83; 0;28969
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7; 1058.7; 14-SEP-2007 22:31:35; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;28970
8; 2183.5; 14-SEP-2007 22:50:20; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;28970
9; 2417.6; 14-SEP-2007 22:54:14; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;28970
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4; 3152.8; 14-SEP-2007 08:01:06; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;28961
5; 4477.8; 14-SEP-2007 08:23:11; Bright; 42.5; 24; 66Alp Gem ; 1.58; 10200;occ; 85; 0;28961
6; 4987.6; 14-SEP-2007 08:31:40; Dark ; 42.5; 8; 10Alp CMI ; 0.40; 6500;occ; 85; 0;28961
7; 5519.4; 14-SEP-2007 08:40:32; Dark ; 63.0; 1; 9Alp CMA ; -1.44; 11000;occ; 126; 0;28961
8; 5658.6; 14-SEP-2007 08:42:51; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;28961
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12; 6744.8; 14-SEP-2007 09:00:58; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;28961
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17; 6723.0; 23-SEP-2007 21:02:00; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29097  
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2; 1412.4; 27-SEP-2007 22:28:49; Dark ; 39.5; 18; 24Alp PsA ; 1.17; 9700;occ; 79; 0;29156  
3; 1932.5; 27-SEP-2007 22:37:29; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;29156  
4; 2422.9; 27-SEP-2007 22:45:39; Bright; 35.0; 164; 44Eta Peg ; 2.95; 5400;occ; 70; 0;29156  
5; 2990.7; 27-SEP-2007 22:55:07; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;29156  
6; 3429.4; 27-SEP-2007 23:02:26; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29156  
7; 3537.6; 27-SEP-2007 23:04:14; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;29156  
8; 3899.5; 27-SEP-2007 23:10:16; Bright; 52.0; 36; 50Alp UMa ; 1.80; 6300;occ; 104; 0;29156  
9; 3988.8; 27-SEP-2007 23:11:45; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29156  
10; 4179.6; 27-SEP-2007 23:14:56; Bright; 33.5; 174; 52Psi UMA ; 3.00; 4400;occ; 67; 0;29156  
11; 4578.2; 27-SEP-2007 23:21:35; Bright; 33.5; 166; 17Eps Leo ; 2.98; 6000;occ; 67; 0;29156  
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3; -311.6; 27-SEP-2007 23:40:41; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29156  
4; -223.0; 27-SEP-2007 23:42:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29156  
5; -113.4; 27-SEP-2007 23:43:59; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;29156  
6; -18.2; 27-SEP-2007 23:45:34; Dark ; 37.5; 41; Eps Car ; 1.86; 4100;occ; 75; 0;29156  
7; 712.5; 27-SEP-2007 23:57:45; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29157  
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9; 1932.6; 28-SEP-2007 00:18:05; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;29157  
10; 2423.0; 28-SEP-2007 00:26:15; Bright; 35.5; 164; 44Eta Peg ; 2.95; 5400;occ; 71; 0;29157  
11; 2990.9; 28-SEP-2007 00:35:43; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;29157  
12; 3429.4; 28-SEP-2007 00:43:02; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29157  
13; 3537.9; 28-SEP-2007 00:44:50; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;29157  
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