

# GOMOS Daily Report 05-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	07SEP2007 05:35:32
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (05SEP2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (06SEP2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

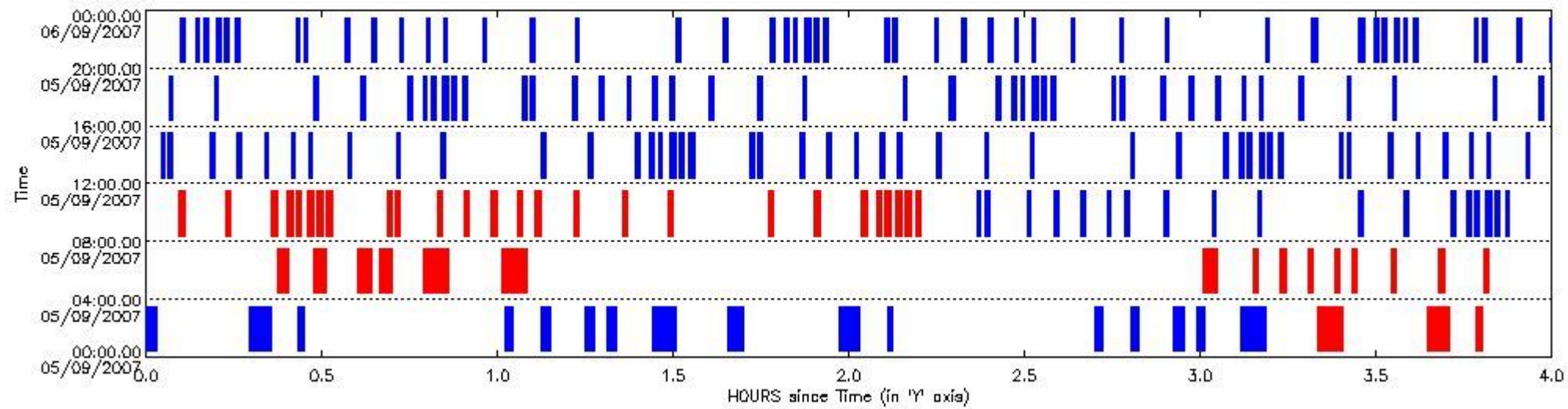
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
05-SEP-2007 03:19:57	87AlpTau	13	28829
05-SEP-2007 03:38:45	34GamEri	165	28830
05-SEP-2007 03:47:05	DSA1064	0	28830
05-SEP-2007 04:22:18	43BetAnd	53	28830
05-SEP-2007 04:28:31	57Gam1And	73	28830
05-SEP-2007 04:35:56	26BetPer	79	28830
05-SEP-2007 04:39:47	45EpsPer	149	28830
05-SEP-2007 04:47:25	44ZetPer	150	28830
05-SEP-2007 05:00:40	87AlpTau	13	28830
05-SEP-2007 07:00:30	AlpHyi	143	28832
05-SEP-2007 07:01:50	AlpEri	9	28832
05-SEP-2007 07:09:00	BetGru	63	28832
05-SEP-2007 07:13:37	24AlpPsA	18	28832
05-SEP-2007 07:18:20	49DelCap	142	28832
05-SEP-2007 07:22:49	34AlpAqr	162	28832

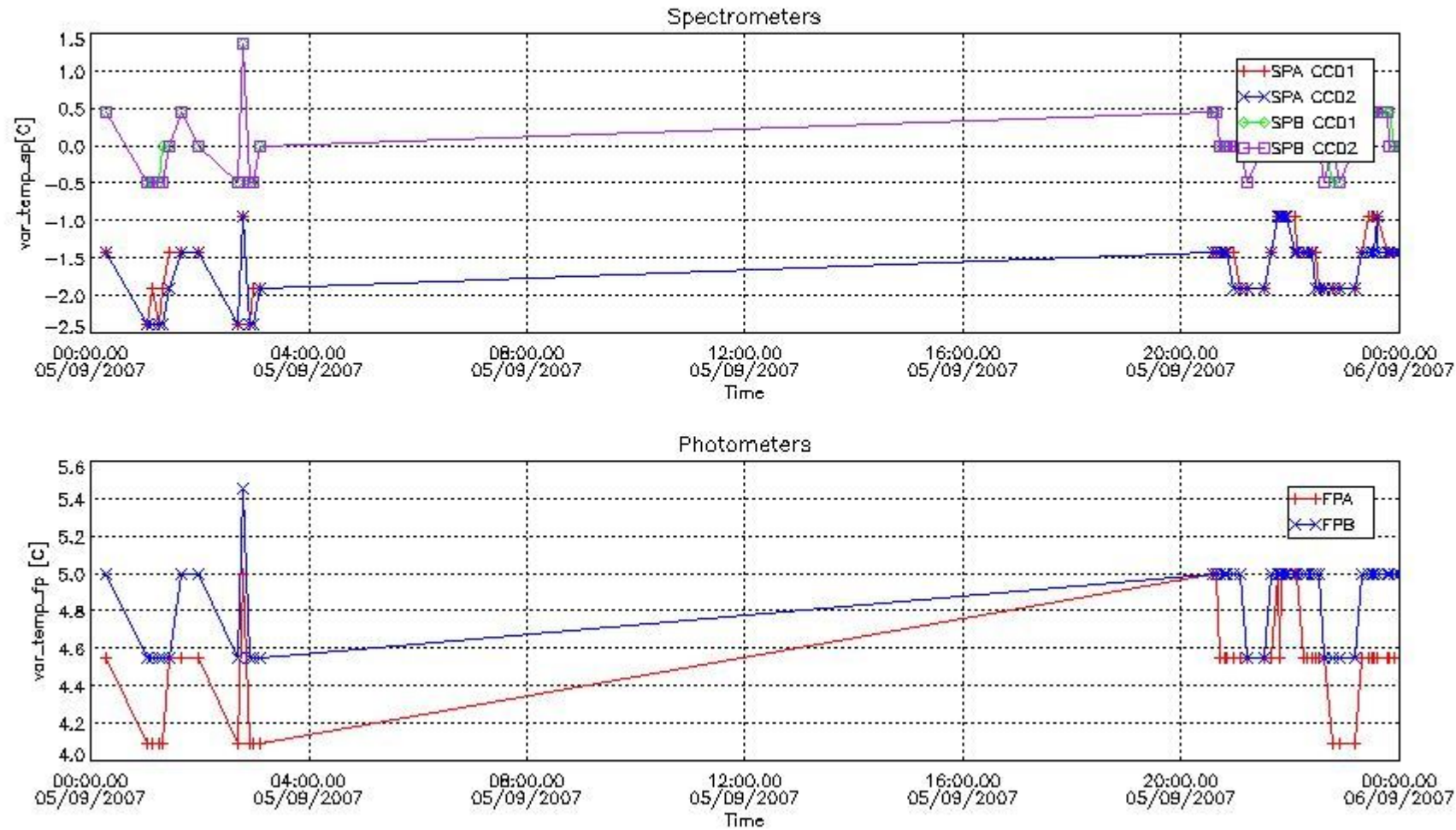
05-SEP-2007 07:25:48	8EpsPeg	61	28832
05-SEP-2007 07:32:31	44EtaPeg	164	28832
05-SEP-2007 07:40:45	5AlpCep	89	28832
05-SEP-2007 07:48:27	1AlpUMi	49	28832
05-SEP-2007 08:05:33	66AlpGem	24	28832
05-SEP-2007 08:13:27	10AlpCMi	8	28832
05-SEP-2007 08:21:24	9AlpCMa	1	28832
05-SEP-2007 08:24:03	21EpsCMA	23	28832
05-SEP-2007 08:25:31	PiPup	117	28832
05-SEP-2007 08:27:27	DSA1059	0	28832
05-SEP-2007 08:28:58	AlpCol	108	28832
05-SEP-2007 08:30:44	AlpCar	2	28832
05-SEP-2007 08:41:07	AlpHyi	143	28833
05-SEP-2007 08:42:27	AlpEri	9	28833
05-SEP-2007 08:49:37	BetGru	63	28833
05-SEP-2007 08:54:14	24AlpPsA	18	28833
05-SEP-2007 08:58:56	49DelCap	142	28833
05-SEP-2007 09:03:25	34AlpAqr	162	28833
05-SEP-2007 09:06:24	8EpsPeg	61	28833
05-SEP-2007 09:13:06	44EtaPeg	164	28833
05-SEP-2007 09:21:21	5AlpCep	89	28833
05-SEP-2007 09:29:03	1AlpUMi	49	28833
05-SEP-2007 09:46:09	66AlpGem	24	28833
05-SEP-2007 09:54:03	10AlpCMi	8	28833
05-SEP-2007 10:02:01	9AlpCMa	1	28833
05-SEP-2007 10:04:40	21EpsCMA	23	28833
05-SEP-2007 10:06:08	PiPup	117	28833
05-SEP-2007 10:08:04	DSA1059	0	28833
05-SEP-2007 10:09:35	AlpCol	108	28833
05-SEP-2007 10:11:20	AlpCar	2	28833

#### 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_1PNPDE20070905_001729_000002242061_00217_28828_5040.N1	05-SEP-2007 00:17:29	Straylight	224.00	165	34Gam Eri	2.9500	3200.0	448	28828	No
2	GOM_TRA_1PNPDE20070905_010116_000000752061_00217_28828_5041.N1	05-SEP-2007 01:01:16	Bright	75.000	53	43Bet And	2.0480	3300.0	150	28828	No
3	GOM_TRA_1PNPDE20070905_010729_000000872061_00217_28828_5042.N1	05-SEP-2007 01:07:29	Bright	86.500	73	57Gam1And	2.2600	13100.	173	28828	No
4	GOM_TRA_1PNPDE20070905_011453_000001052061_00217_28828_5043.N1	05-SEP-2007 01:14:53	Bright	104.50	79	26Bet Per	2.3100	13100.	209	28828	No
5	GOM_TRA_1PNPDE20070905_011842_000000862061_00217_28828_5044.N1	05-SEP-2007 01:18:42	Bright	85.500	149	45Eps Per	2.8880	30000.	171	28828	No
6	GOM_TRA_1PNPDE20070905_012617_000002552061_00217_28828_5045.N1	05-SEP-2007 01:26:17	Straylight	254.50	150	44Zet Per	2.8900	28000.	509	28828	No
7	GOM_TRA_1PNPDE20070905_013922_000001482061_00217_28828_5193.N1	05-SEP-2007 01:39:22	Dark	148.00	13	87Alp Tau	0.86700	3800.0	296	28828	No
8	GOM_TRA_1PNPDE20070905_015810_000002242061_00218_28829_5194.N1	05-SEP-2007 01:58:10	Straylight	224.00	165	34Gam Eri	2.9500	3200.0	448	28829	No
9	GOM_TRA_1PNPDE20070905_024149_000000872061_00218_28829_5195.N1	05-SEP-2007 02:41:49	Bright	87.000	53	43Bet And	2.0480	3300.0	174	28829	No
10	GOM_TRA_1PNPDE20070905_024803_000000862061_00218_28829_5368.N1	05-SEP-2007 02:48:03	Bright	86.000	73	57Gam1And	2.2600	13100.	172	28829	Yes
11	GOM_TRA_1PNPDE20070905_025527_000001022061_00218_28829_5369.N1	05-SEP-2007 02:55:27	Bright	102.00	79	26Bet Per	2.3100	13100.	204	28829	No
12	GOM_TRA_1PNPDE20070905_025917_000000862061_00218_28829_5370.N1	05-SEP-2007 02:59:17	Bright	85.500	149	45Eps Per	2.8880	30000.	171	28829	No
13	GOM_TRA_1PNPDE20070905_030654_000002552061_00218_28829_5371.N1	05-SEP-2007 03:06:54	Straylight	254.50	150	44Zet Per	2.8900	28000.	509	28829	No
14	GOM_TRA_1PNPDE20070905_203356_000000532061_00229_28840_5904.N1	05-SEP-2007 20:33:56	Straylight	52.500	63	Bet Gru	2.1500	2800.0	105	28840	No
15	GOM_TRA_1PNPDE20070905_203833_000000452061_00229_28840_5905.N1	05-SEP-2007 20:38:33	Straylight	45.000	18	24Alp PsA	1.1660	9700.0	90	28840	No
16	GOM_TRA_1PNPDE20070905_204315_000000412061_00229_28840_5906.N1	05-SEP-2007 20:43:15	Bright	41.000	142	49Del Cap	2.8500	8900.0	82	28840	No
17	GOM_TRA_1PNPDE20070905_204742_000000392061_00229_28840_5907.N1	05-SEP-2007 20:47:42	Bright	38.500	162	34Alp Aqr	2.9440	5350.0	77	28840	No
18	GOM_TRA_1PNPDE20070905_205041_000000372061_00229_28840_5908.N1	05-SEP-2007 20:50:41	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	28840	No
19	GOM_TRA_1PNPDE20070905_205721_000000402061_00229_28840_5909.N1	05-SEP-2007 20:57:21	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	28840	No
20	GOM_TRA_1PNPDE20070905_210538_000000372061_00229_28840_5910.N1	05-SEP-2007 21:05:38	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	28840	No
21	GOM_TRA_1PNPDE20070905_211321_000000372061_00229_28840_5911.N1	05-SEP-2007 21:13:21	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	28840	No
22	GOM_TRA_1PNPDE20070905_213028_000000392061_00229_28840_5912.N1	05-SEP-2007 21:30:28	Bright	39.000	24	66Alp Gem	1.5800	10200.	78	28840	No
23	GOM_TRA_1PNPDE20070905_213823_000000492061_00229_28840_5913.N1	05-SEP-2007 21:38:23	Twilight	49.000	8	10Alp CMi	0.40000	6500.0	98	28840	No
24	GOM_TRA_1PNPDE20070905_214623_000000502061_00229_28840_6062.N1	05-SEP-2007 21:46:23	Dark	50.000	1	9Alp CMA	-1.4400	11000.	100	28840	No

25	GOM_TRA_1PNPDE20070905_214902_000000412061_00229_28840_6063.N1	05-SEP-2007 21:49:02	Dark	40.500	23	21Eps CMa	1.5020	26000.	81	28840	No
26	GOM_TRA_1PNPDE20070905_215028_000000412061_00229_28840_6064.N1	05-SEP-2007 21:50:28	Dark	41.000	117	Pi Pup	2.7060	3800.0	82	28840	No
27	GOM_TRA_1PNPDE20070905_215359_000000472061_00229_28840_6065.N1	05-SEP-2007 21:53:59	Dark	46.500	108	Alp Col	2.6520	15200.	93	28840	No
28	GOM_TRA_1PNPDE20070905_215541_000000522061_00229_28840_6066.N1	05-SEP-2007 21:55:41	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	28840	No
29	GOM_TRA_1PNPDE20070905_220605_000000422061_00230_28841_6067.N1	05-SEP-2007 22:06:05	Dark	41.500	143	Alp Hyi	2.8570	7200.0	83	28841	No
30	GOM_TRA_1PNPDE20070905_220725_000000422061_00230_28841_6068.N1	05-SEP-2007 22:07:25	Dark	42.000	9	Alp Eri	0.45300	24000.	84	28841	No
31	GOM_TRA_1PNPDE20070905_221434_000000382061_00230_28841_6069.N1	05-SEP-2007 22:14:34	Straylight	37.500	63	Bet Gru	2.1500	2800.0	75	28841	No
32	GOM_TRA_1PNPDE20070905_221909_000000452061_00230_28841_6070.N1	05-SEP-2007 22:19:09	Straylight	44.500	18	24Alp PsA	1.1660	9700.0	89	28841	No
33	GOM_TRA_1PNPDE20070905_222351_000000382061_00230_28841_6071.N1	05-SEP-2007 22:23:51	Bright	37.500	142	49Del Cap	2.8500	8900.0	75	28841	No
34	GOM_TRA_1PNPDE20070905_222818_000000382061_00230_28841_6072.N1	05-SEP-2007 22:28:18	Bright	38.000	162	34Alp Aqr	2.9440	5350.0	76	28841	No
35	GOM_TRA_1PNPDE20070905_223117_000000372061_00230_28841_6073.N1	05-SEP-2007 22:31:17	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	28841	No
36	GOM_TRA_1PNPDE20070905_223757_000000402061_00230_28841_6074.N1	05-SEP-2007 22:37:57	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	28841	No
37	GOM_TRA_1PNPDE20070905_224614_000000362061_00230_28841_6075.N1	05-SEP-2007 22:46:14	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	28841	No
38	GOM_TRA_1PNPDE20070905_225356_000000382061_00230_28841_6076.N1	05-SEP-2007 22:53:56	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	28841	No
39	GOM_TRA_1PNPDE20070905_231104_000000402061_00230_28841_6077.N1	05-SEP-2007 23:11:04	Bright	40.000	24	66Alp Gem	1.5800	10200.	80	28841	No
40	GOM_TRA_1PNPDE20070905_231859_000000562061_00230_28841_6078.N1	05-SEP-2007 23:18:59	Twilight	55.500	8	10Alp CMi	0.40000	6500.0	111	28841	No
41	GOM_TRA_1PNPDE20070905_232700_000000602061_00230_28841_6196.N1	05-SEP-2007 23:27:00	Dark	59.500	1	9Alp CMa	-1.4400	11000.	119	28841	No
42	GOM_TRA_1PNPDE20070905_232938_000000442061_00230_28841_6197.N1	05-SEP-2007 23:29:38	Dark	44.000	23	21Eps CMa	1.5020	26000.	88	28841	No
43	GOM_TRA_1PNPDE20070905_233105_000000422061_00230_28841_6198.N1	05-SEP-2007 23:31:05	Dark	41.500	117	Pi Pup	2.7060	3800.0	83	28841	No
44	GOM_TRA_1PNPDE20070905_233436_000000482061_00230_28841_6199.N1	05-SEP-2007 23:34:36	Dark	47.500	108	Alp Col	2.6520	15200.	95	28841	No
45	GOM_TRA_1PNPDE20070905_233618_000000552061_00230_28841_6200.N1	05-SEP-2007 23:36:18	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	28841	No
46	GOM_TRA_1PNPDE20070905_234641_000000392061_00231_28842_6201.N1	05-SEP-2007 23:46:41	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	28842	No
47	GOM_TRA_1PNPDE20070905_234801_000000512061_00231_28842_6202.N1	05-SEP-2007 23:48:01	Dark	50.500	9	Alp Eri	0.45300	24000.	101	28842	No
48	GOM_TRA_1PNPDE20070905_235357_000000512061_00231_28842_6203.N1	05-SEP-2007 23:53:57	Straylight	50.500	84	Alp Phe	2.3970	4500.0	101	28842	No
49	GOM_TRA_1PNPDE20070905_235945_000000472061_00231_28842_6204.N1	05-SEP-2007 23:59:45	Straylight	47.000	18	24Alp PsA	1.1660	9700.0	94	28842	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).

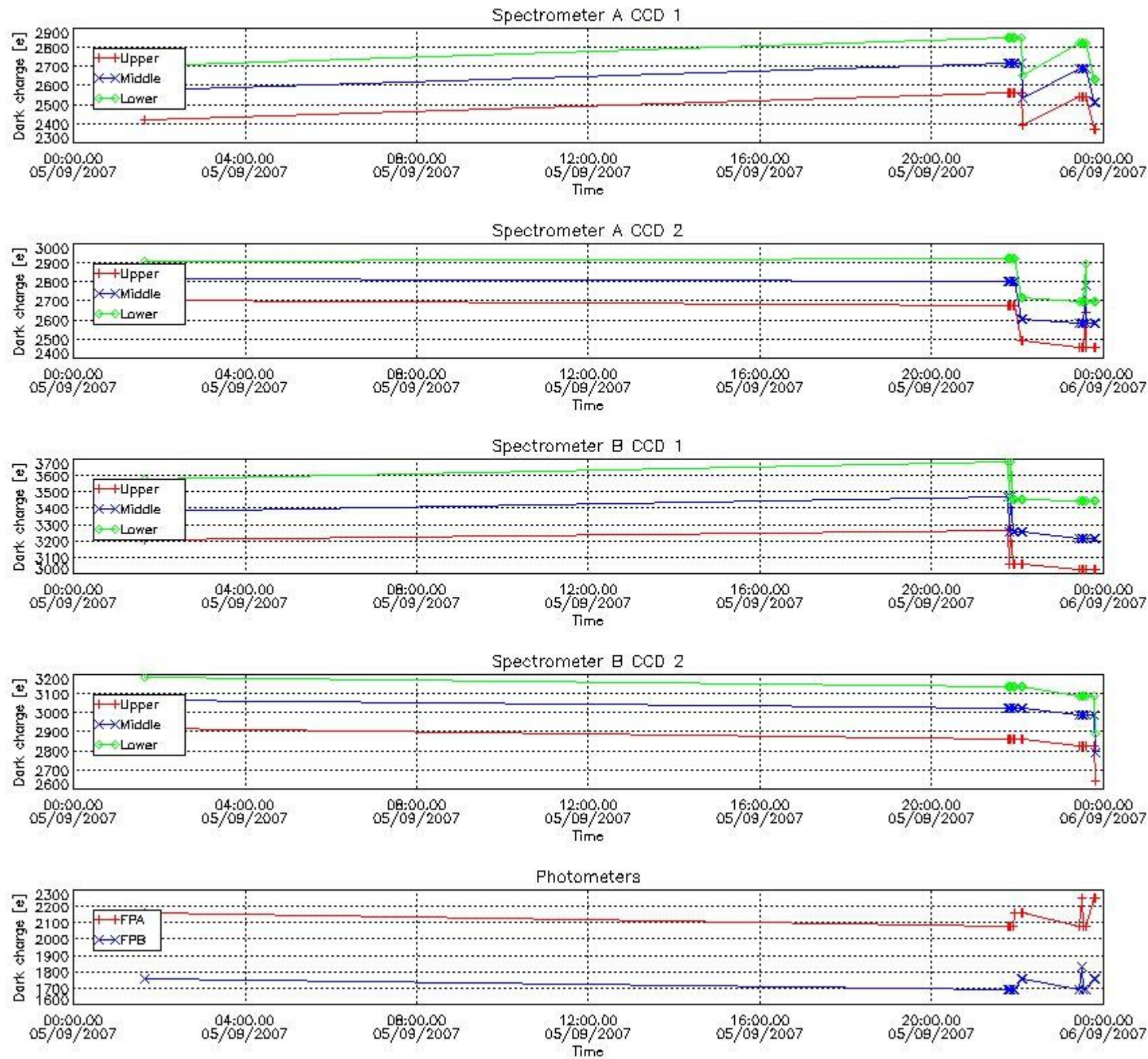
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20070905_024803_000000862061_00218_28829_5368.N1	DC map with no T dep.
GOM_TRA_1PNPDE20070905_025527_000001022061_00218_28829_5369.N1	DC map used
GOM_TRA_1PNPDE20070905_025917_000000862061_00218_28829_5370.N1	DC map used
GOM_TRA_1PNPDE20070905_030654_000002552061_00218_28829_5371.N1	DC map used
GOM_TRA_1PNPDE20070905_203356_000000532061_00229_28840_5904.N1	DC map used
GOM_TRA_1PNPDE20070905_203833_000000452061_00229_28840_5905.N1	DC map used
GOM_TRA_1PNPDE20070905_204315_000000412061_00229_28840_5906.N1	DC map used
GOM_TRA_1PNPDE20070905_204742_000000392061_00229_28840_5907.N1	DC map used
GOM_TRA_1PNPDE20070905_205041_000000372061_00229_28840_5908.N1	DC map used
GOM_TRA_1PNPDE20070905_205721_000000402061_00229_28840_5909.N1	DC map used
GOM_TRA_1PNPDE20070905_210538_000000372061_00229_28840_5910.N1	DC map used
GOM_TRA_1PNPDE20070905_211321_000000372061_00229_28840_5911.N1	DC map used
GOM_TRA_1PNPDE20070905_213028_000000392061_00229_28840_5912.N1	DC map used
GOM_TRA_1PNPDE20070905_213823_000000492061_00229_28840_5913.N1	DC map used



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



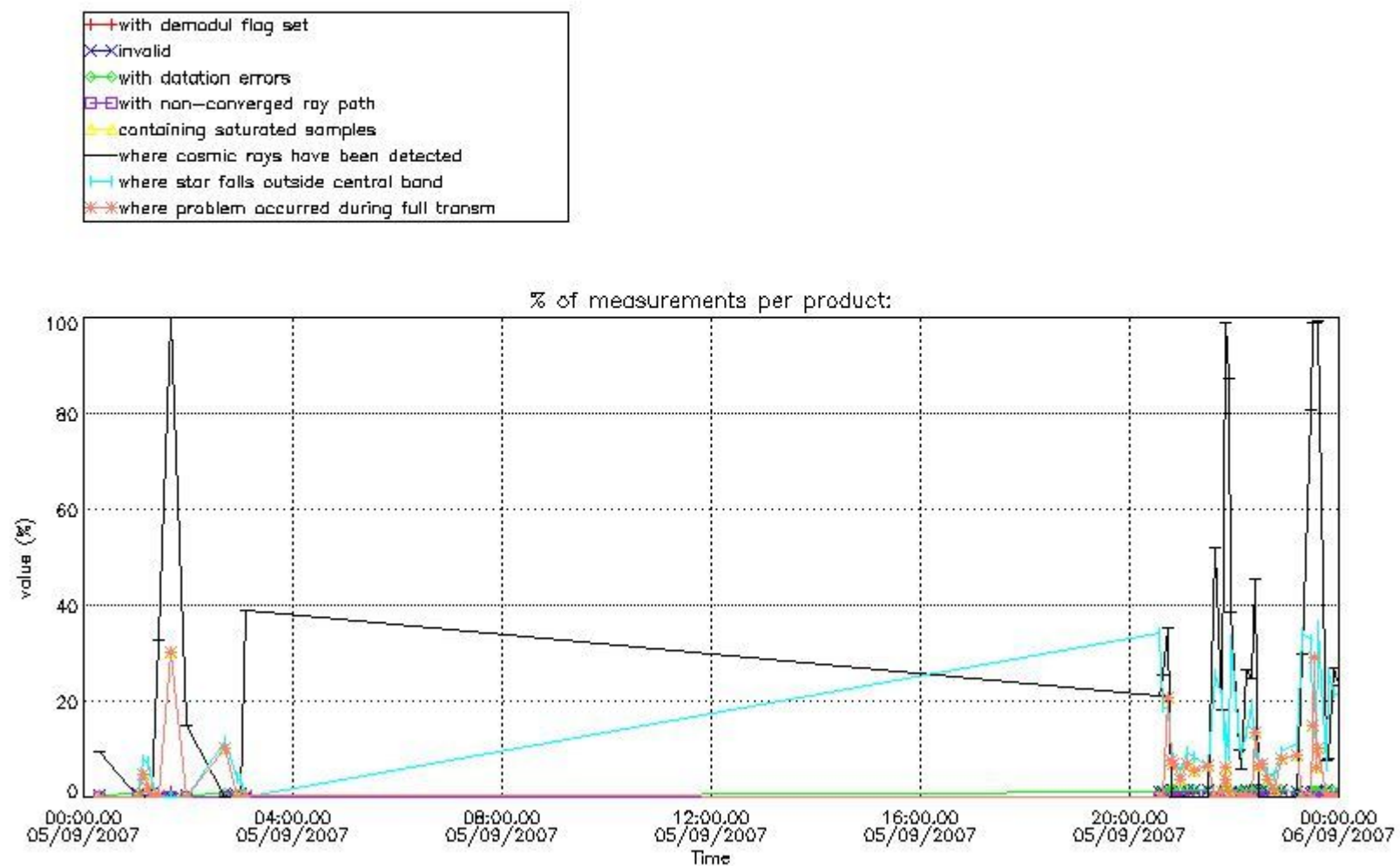
5. Demodulation flag and quality information monitoring

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.

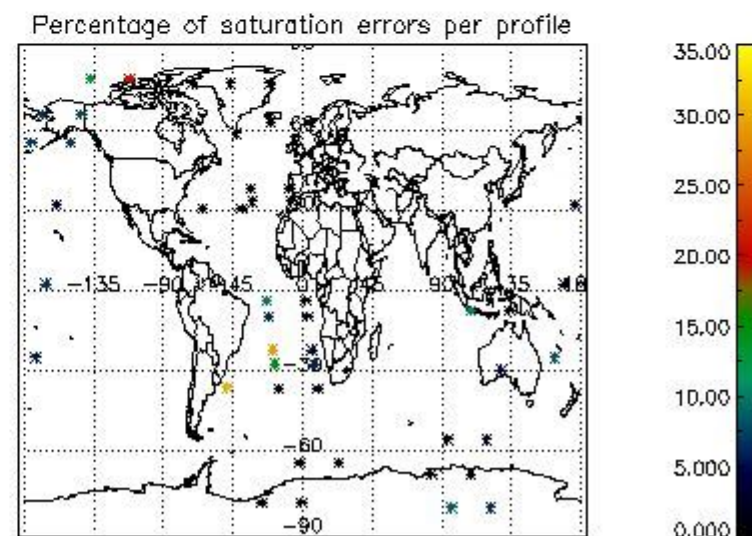
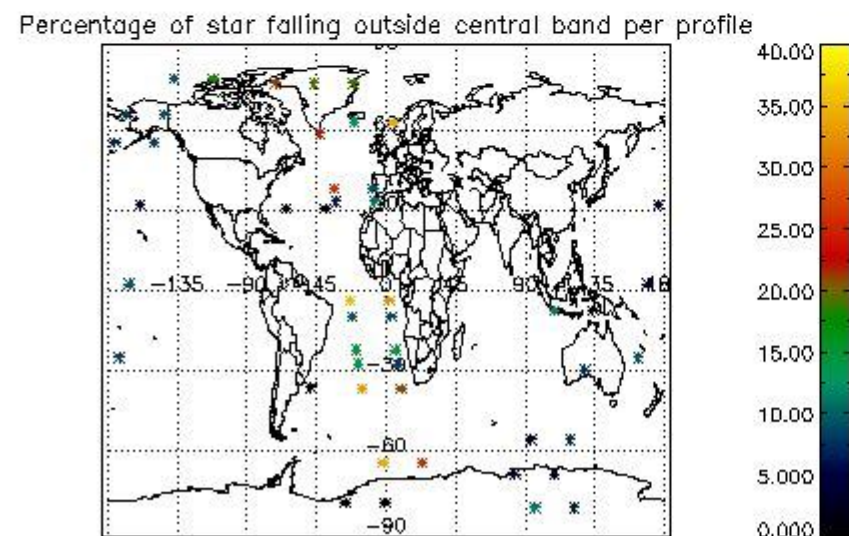
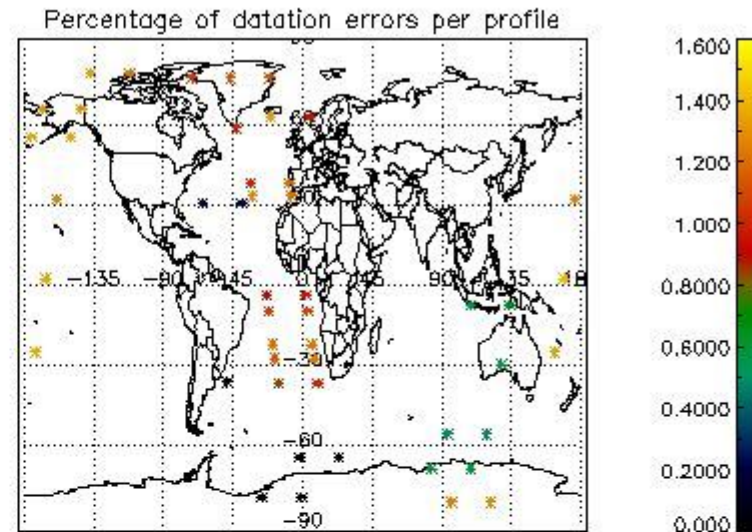
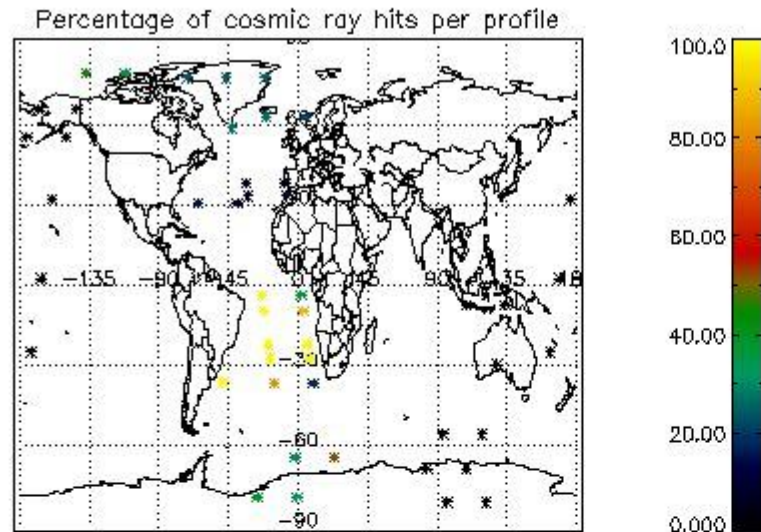
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	29.1667 %
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)

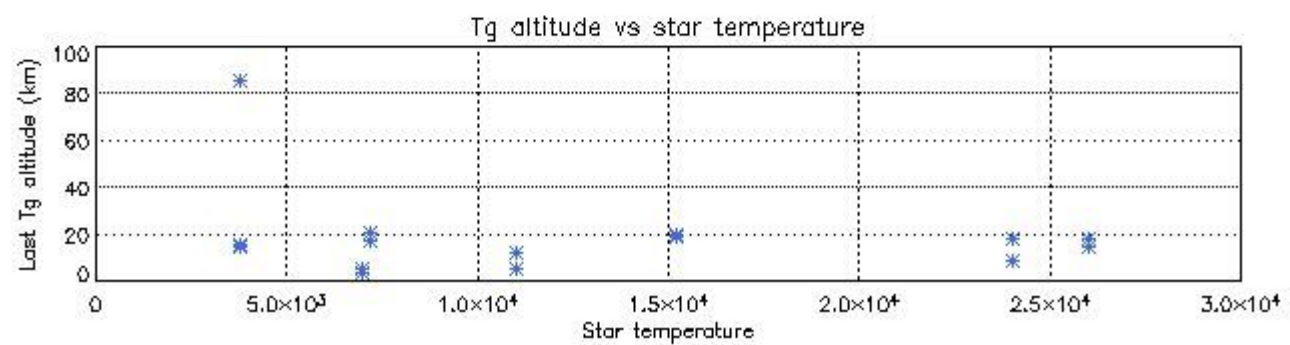
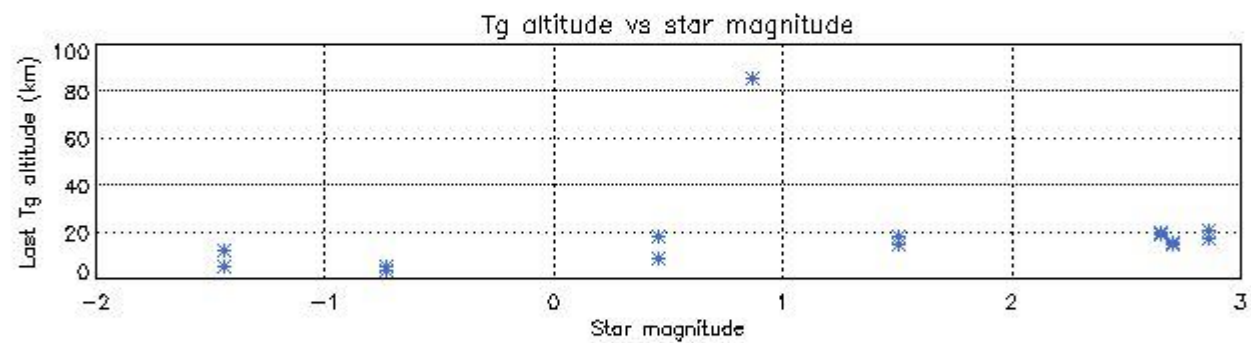
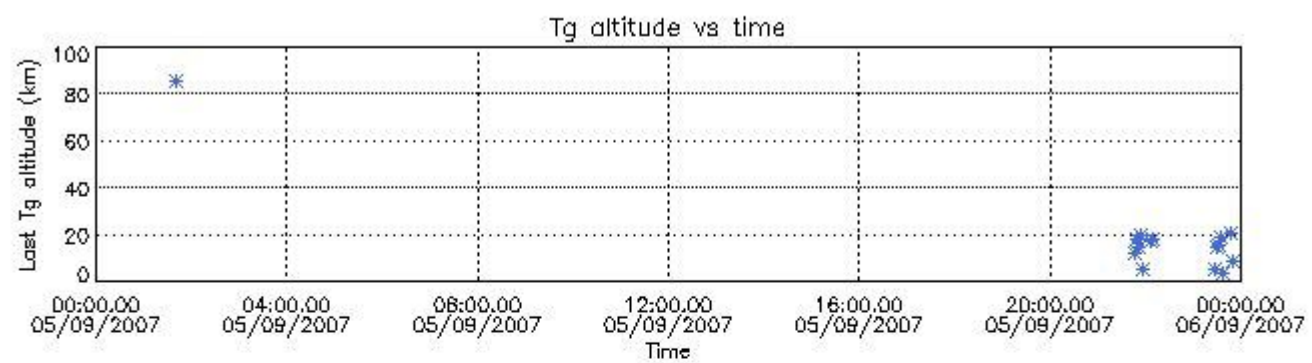
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.385	20.106	7.0769
St. deviation:	19.388	2.8533	2.8713
Maximum:	85.420	27.288	9.1072
Minimum:	3.4136	13.090	5.0466
Number of data:	15.000	21.000	2.0000

### 6.2 Plot for DARK limb products

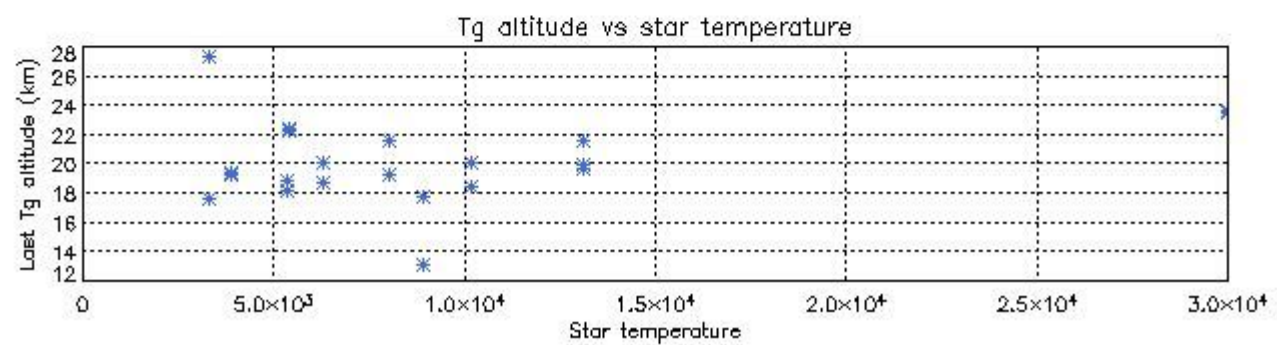
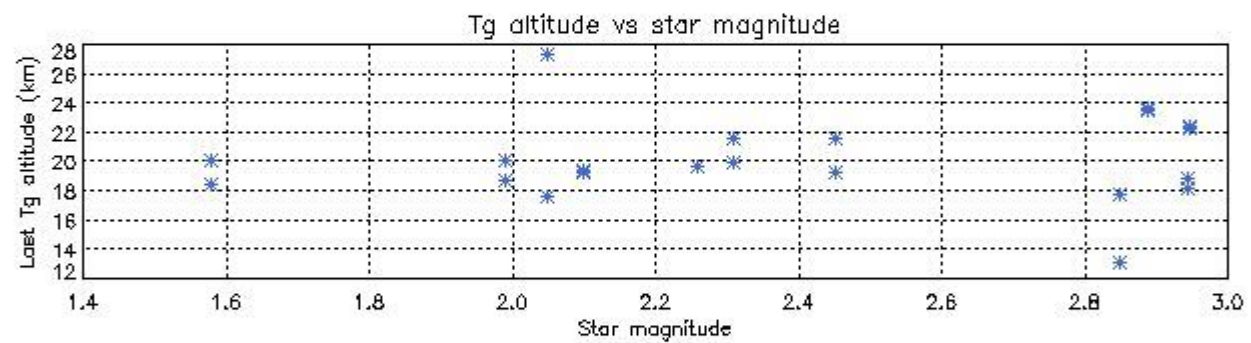
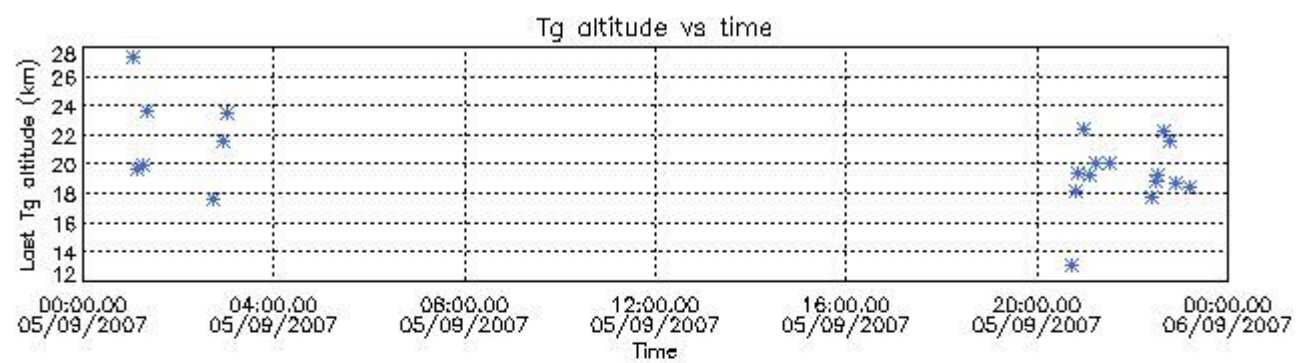


Tangent altitude at which the star is lost



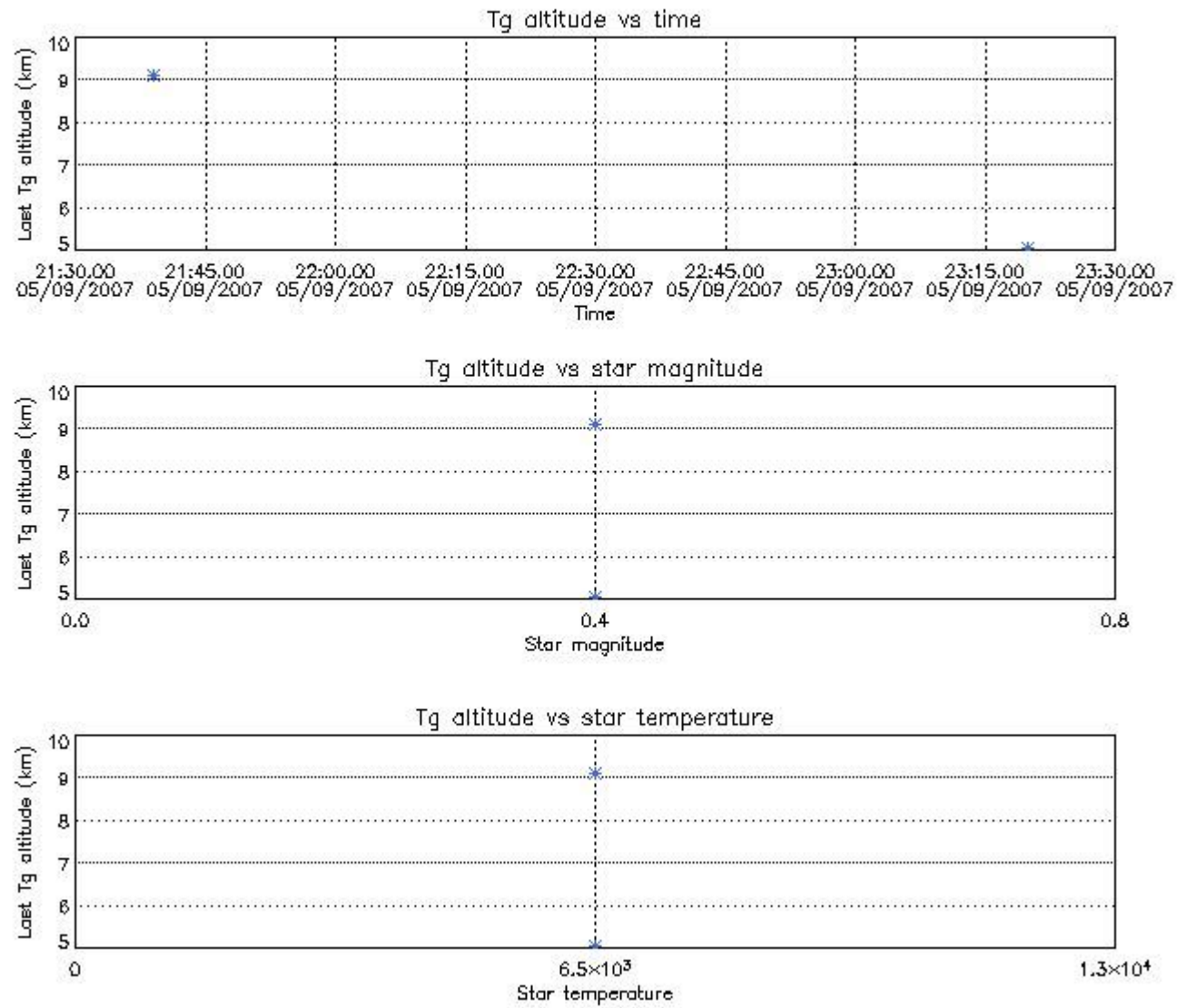
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

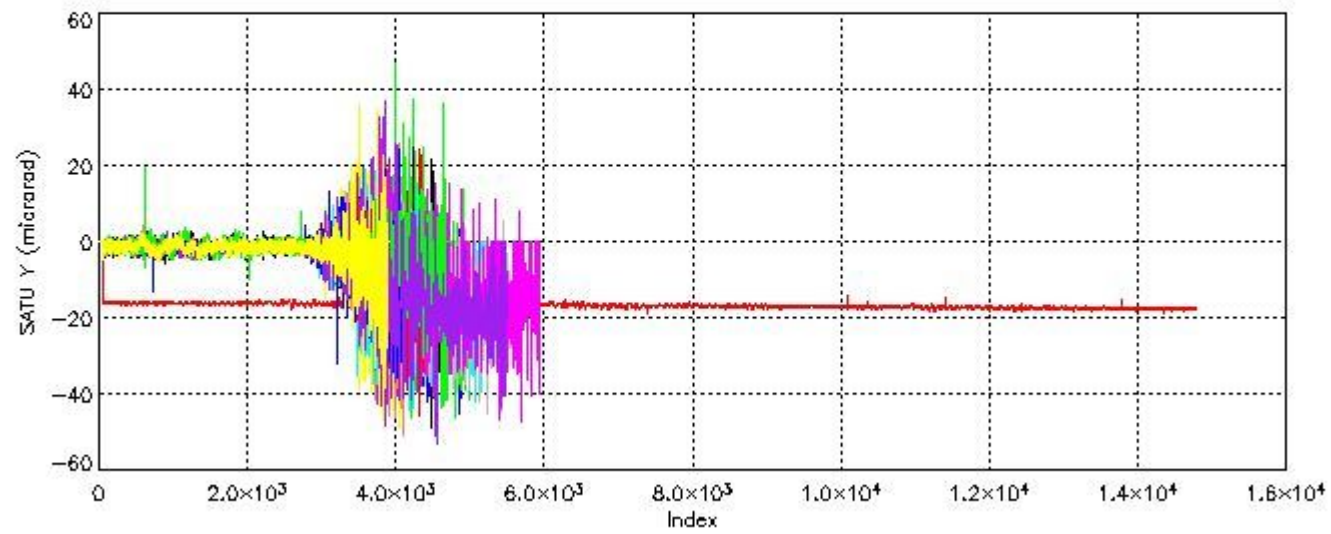
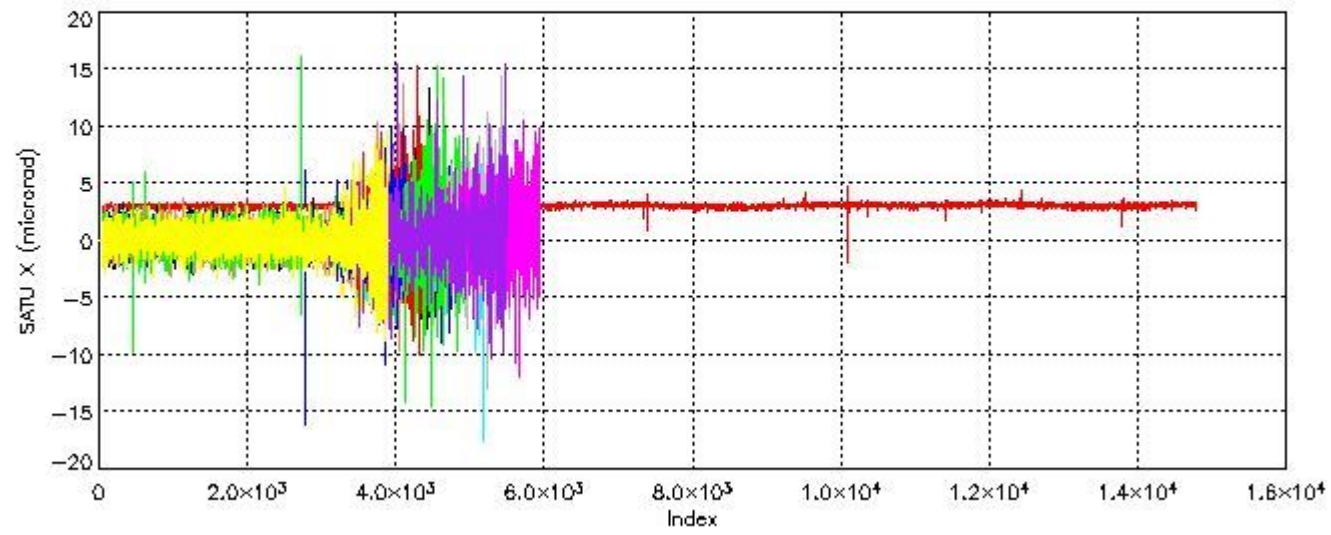


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.35274	-2.2598	0.25371	-1.1602
St. deviation:	0.43451	1.0624	0.73742	1.3250
Maximum:	5.9000	19.600	6.2000	8.0000
Minimum:	-9.8000	-18.700	-5.3000	-8.7000



Number of data:	21350.	21350.	26350.	26350.
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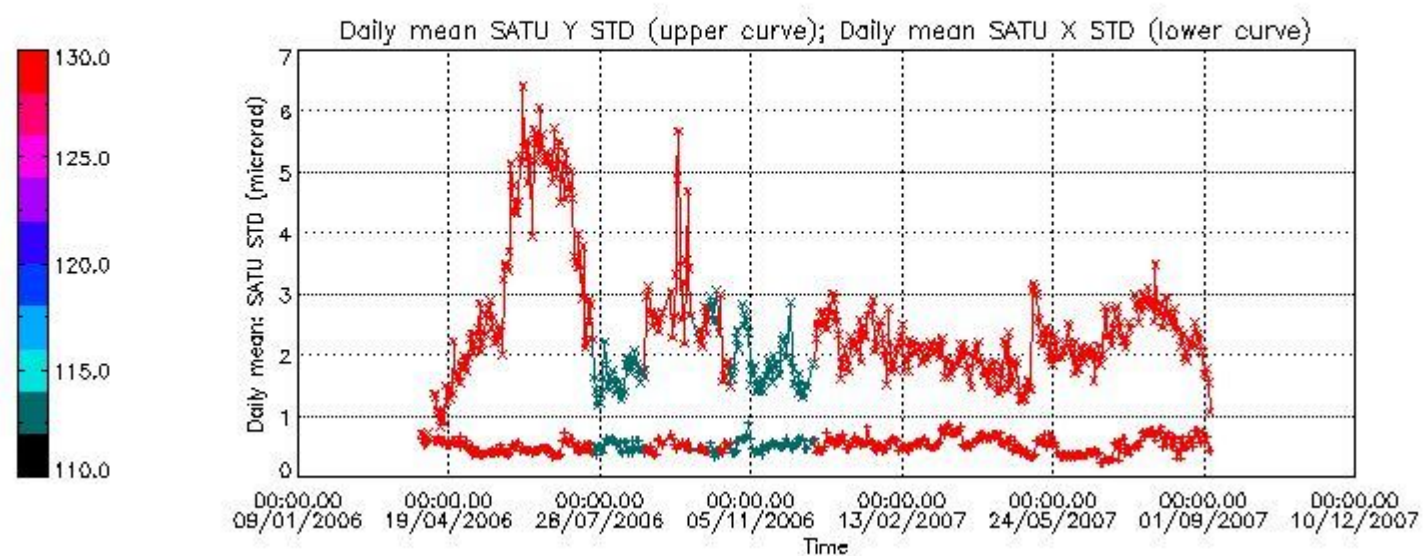
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

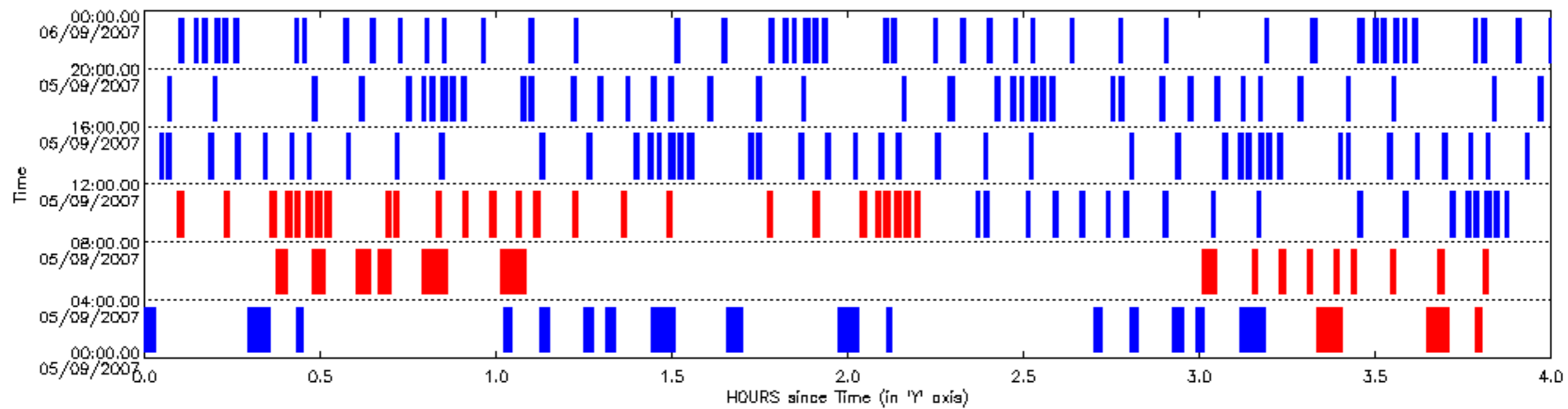
Lower curve: STD of SATU X axis

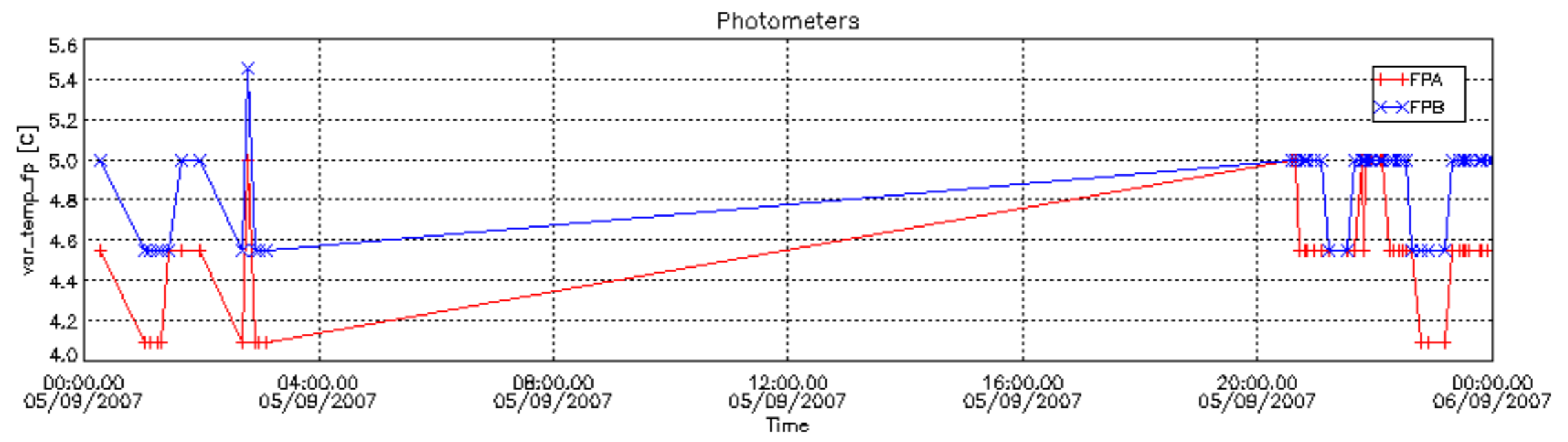
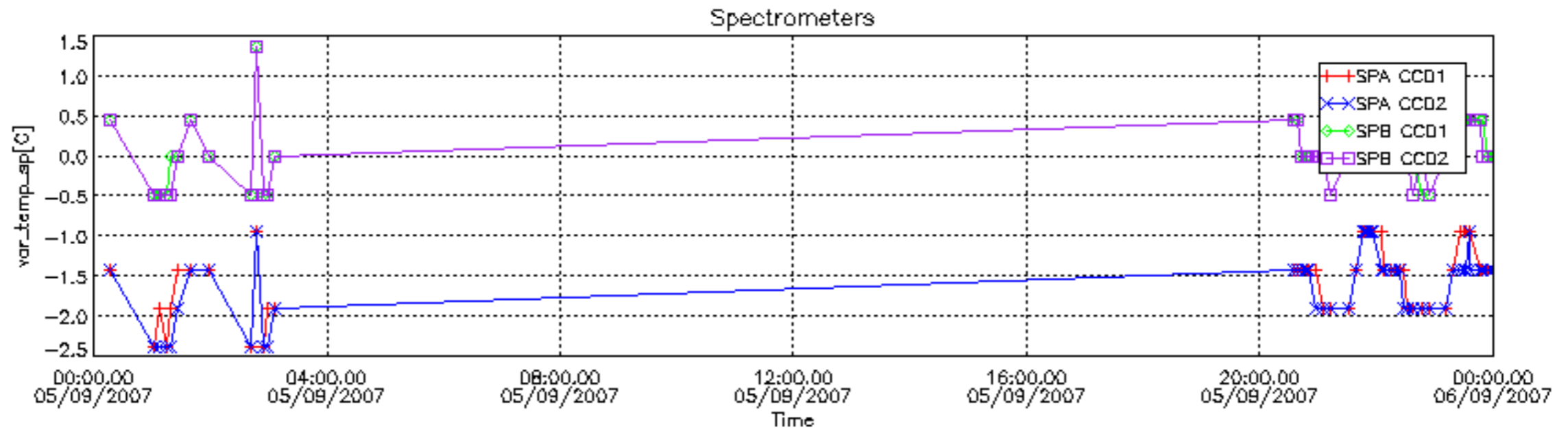


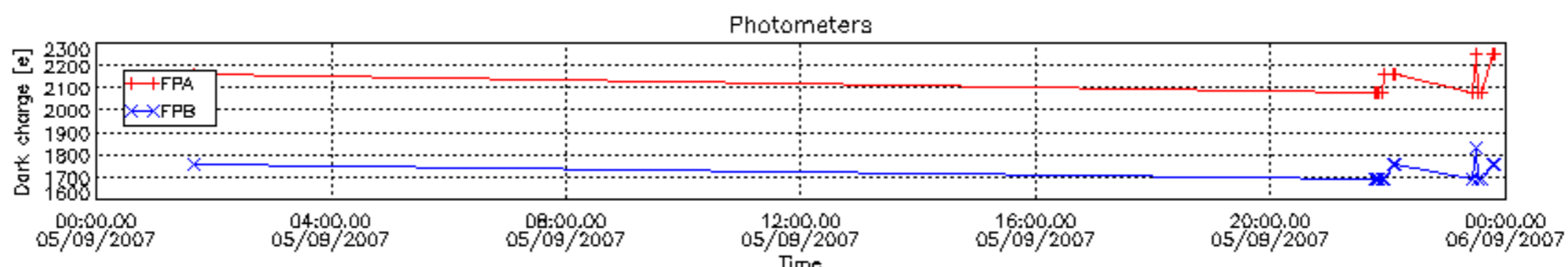
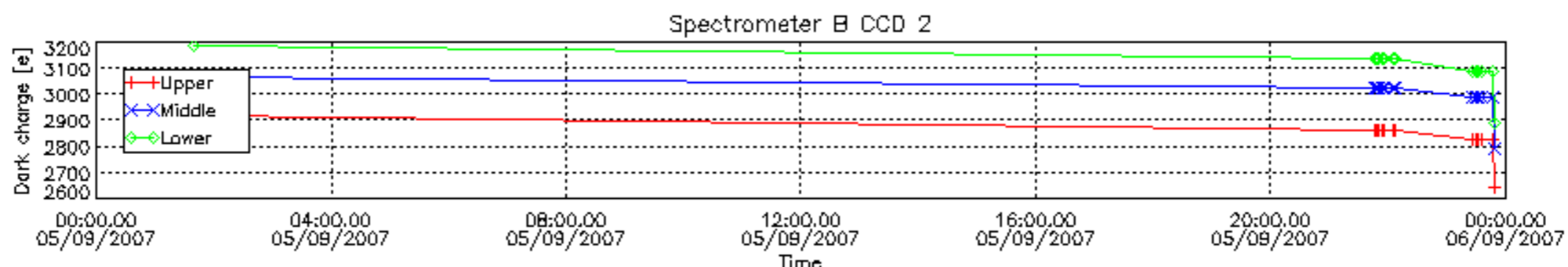
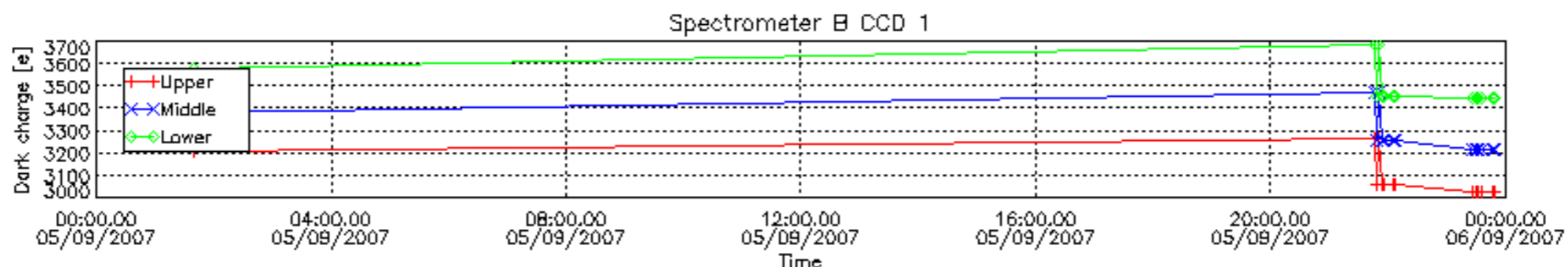
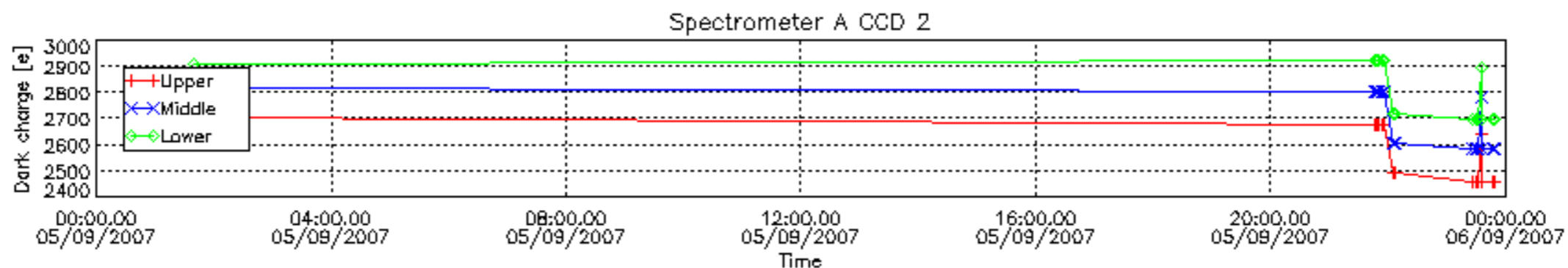
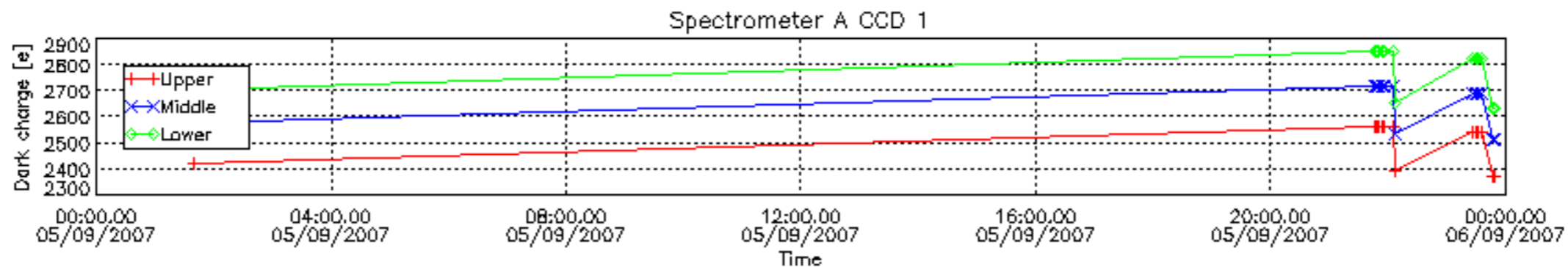
### 8. Auxiliary Data Files used for the production reported in section 2.4

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.

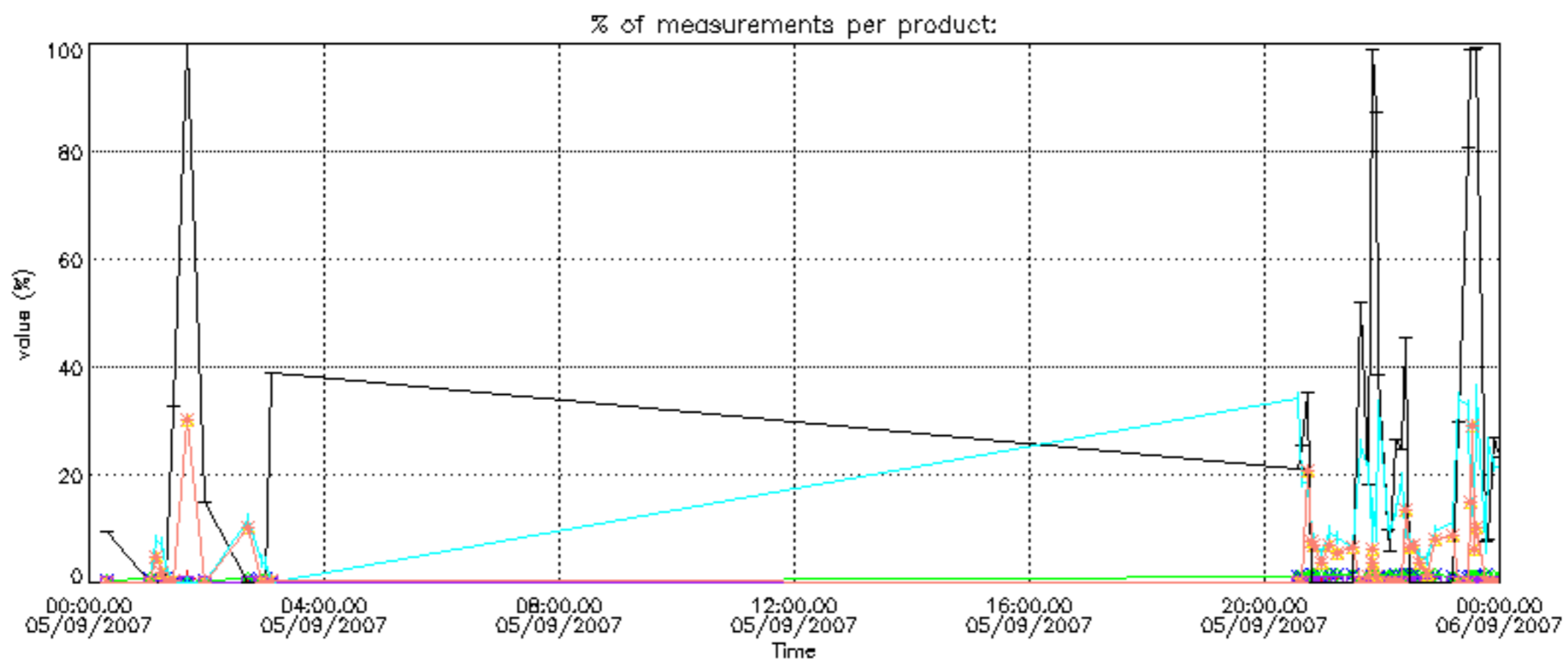
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	05-SEP-2007 00:17:29
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070822_085350_20070820_000000_20100101_000000	1	05-SEP-2007 00:17:29
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070905_122547_20070904_000000_20100101_000000	14	05-SEP-2007 20:33:56
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	05-SEP-2007 00:17:29
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-SEP-2007 00:17:29
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	05-SEP-2007 00:17:29
ECMWF_FILE	AUX_ECF_AXNECM20070904_062112_20070904_210000_20070905_090000	1	05-SEP-2007 00:17:29
ECMWF_FILE	AUX_ECF_AXNECM20070905_062110_20070905_150000_20070906_030000	14	05-SEP-2007 20:33:56
ECMWF_FILE	AUX_ECF_AXNECM20070905_062111_20070905_210000_20070906_090000	24	05-SEP-2007 21:46:23
OPTIONAL_ECMWF_FILE	MISSING	1	05-SEP-2007 00:17:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070904_235458_000054192061_00216_28827_4110.N1	1	05-SEP-2007 00:17:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070905_013036_000041442061_00217_28828_4111.N1	10	05-SEP-2007 02:48:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070905_203256_000038252061_00229_28840_4114.N1	14	05-SEP-2007 20:33:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070905_214200_000057382061_00229_28840_4115.N1	41	05-SEP-2007 23:27:00



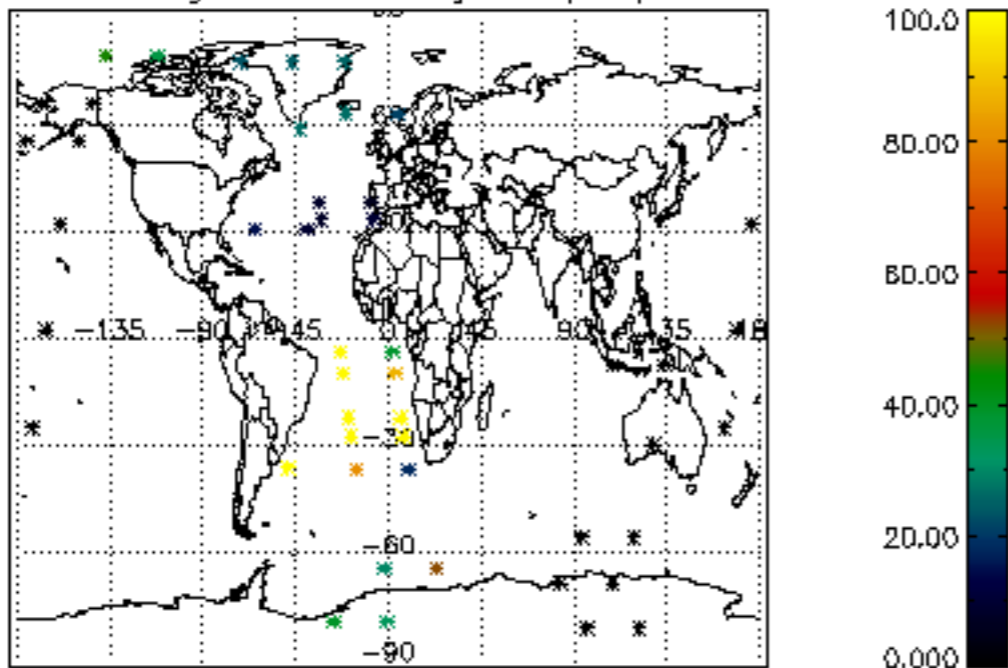




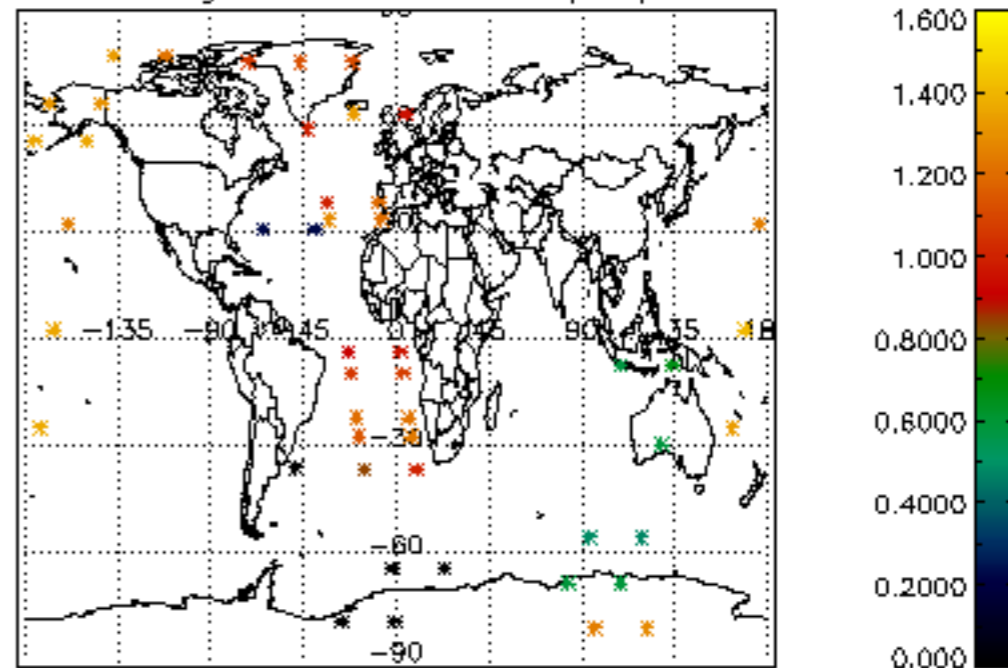




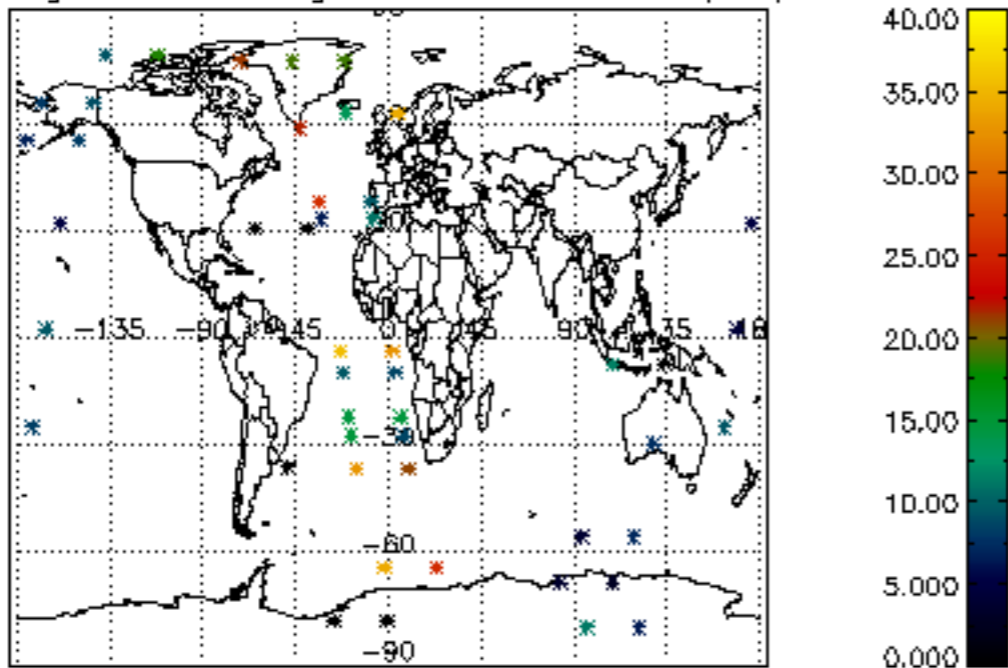
Percentage of cosmic ray hits per profile



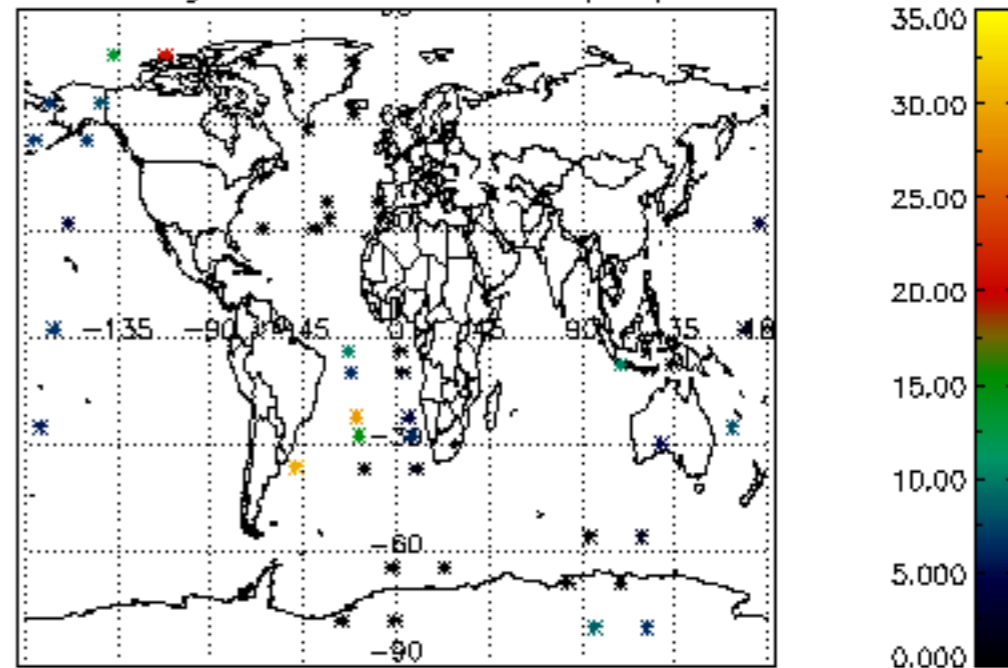
Percentage of datation errors per profile



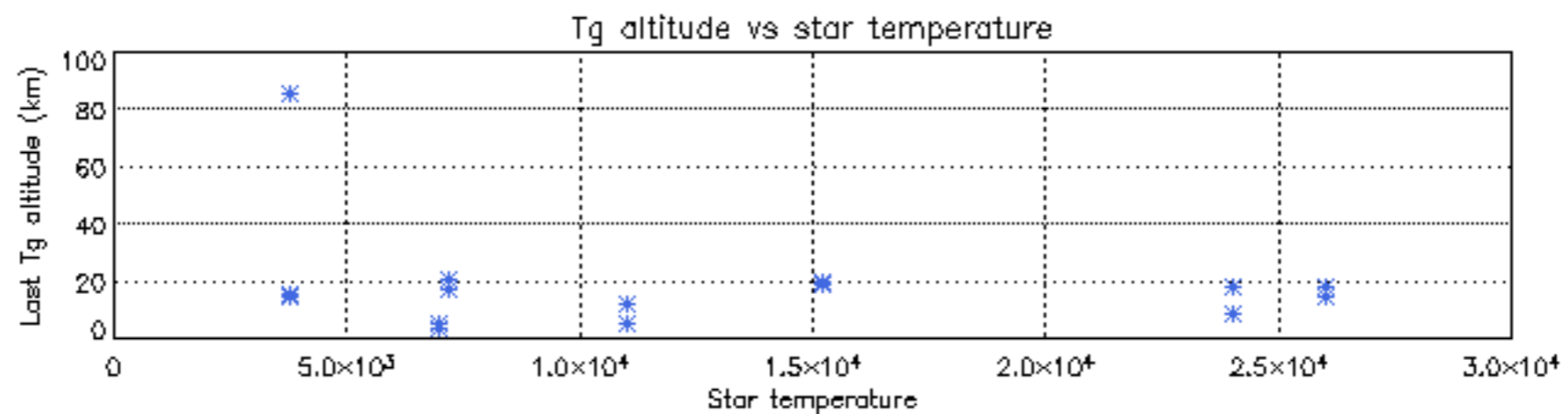
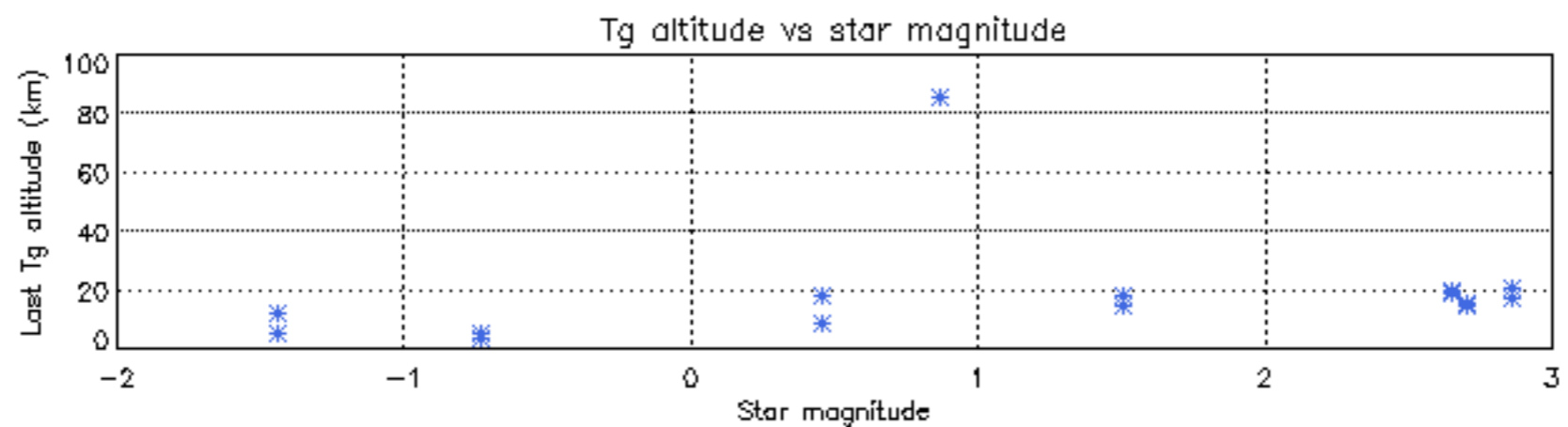
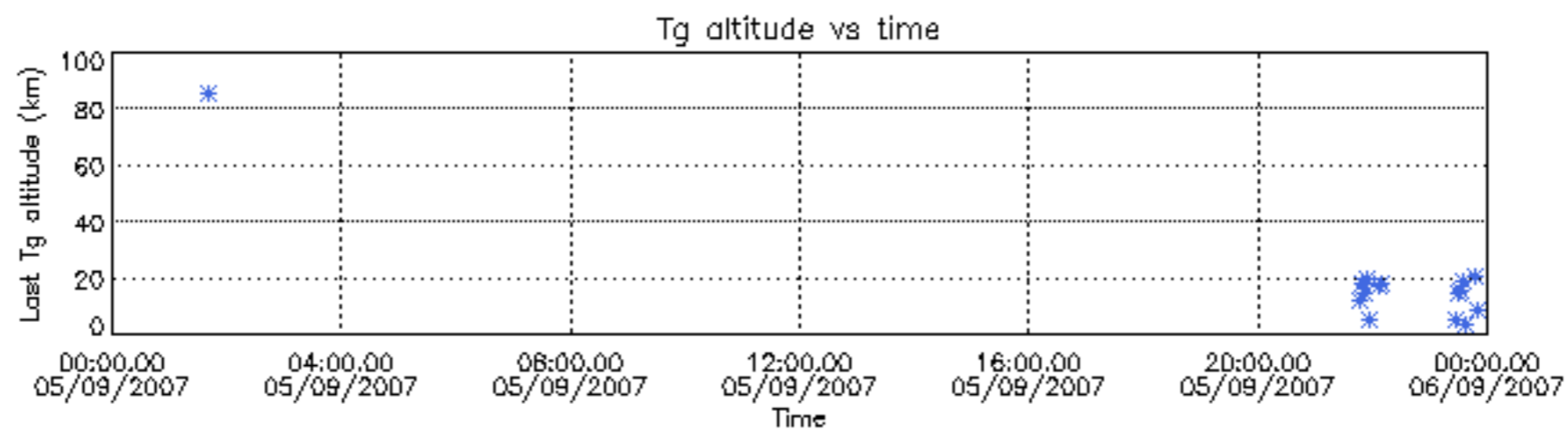
Percentage of star falling outside central band per profile



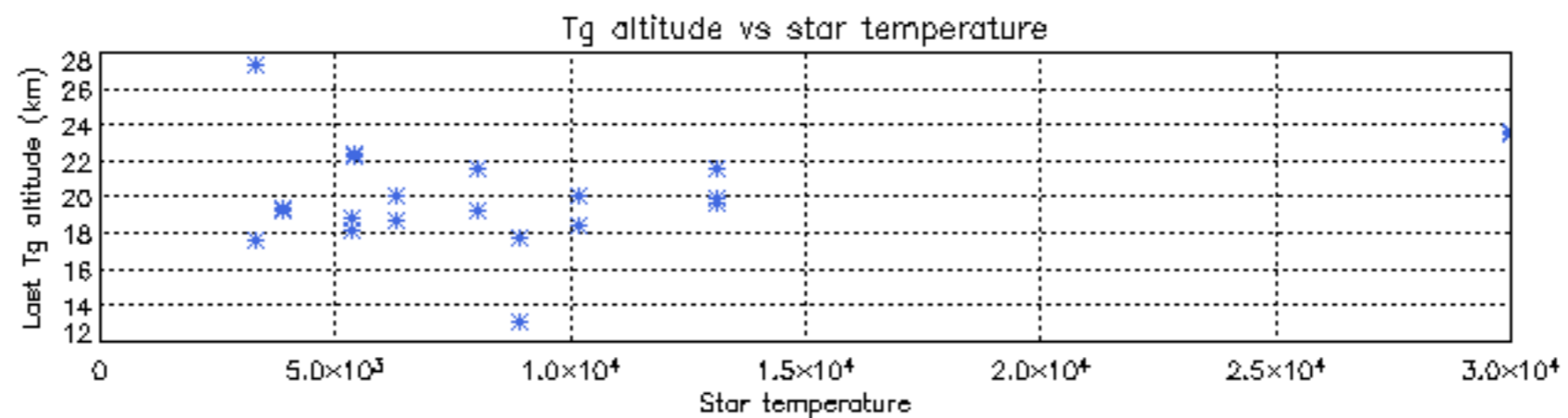
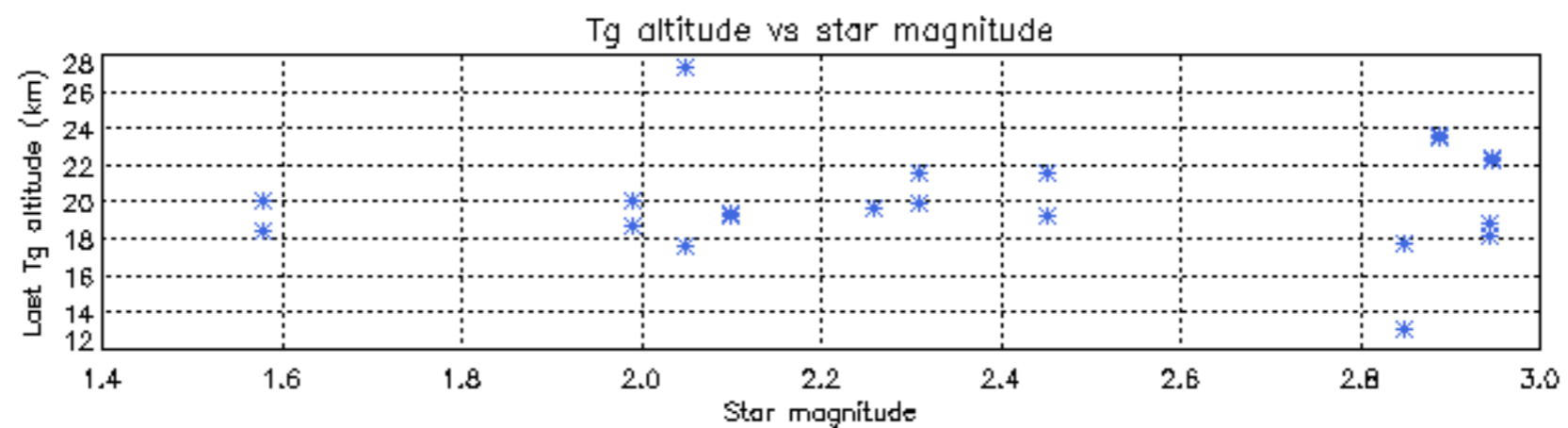
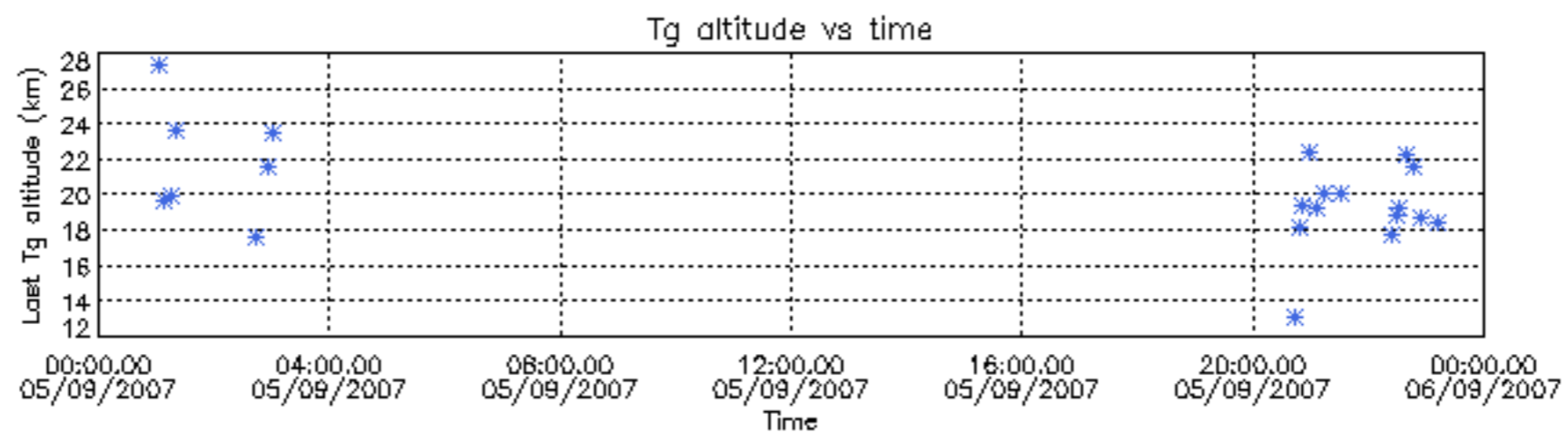
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

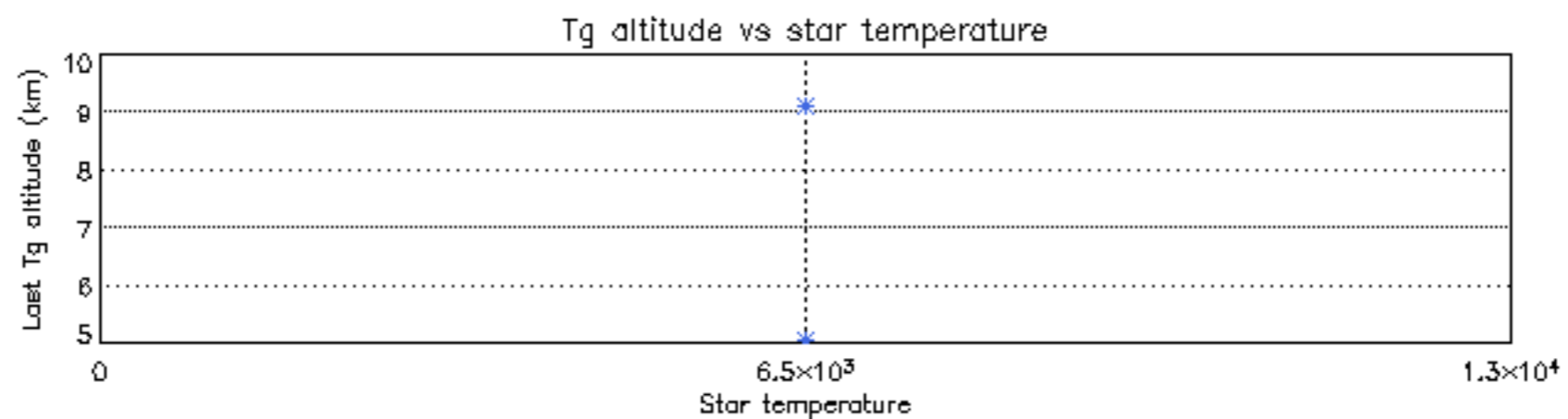
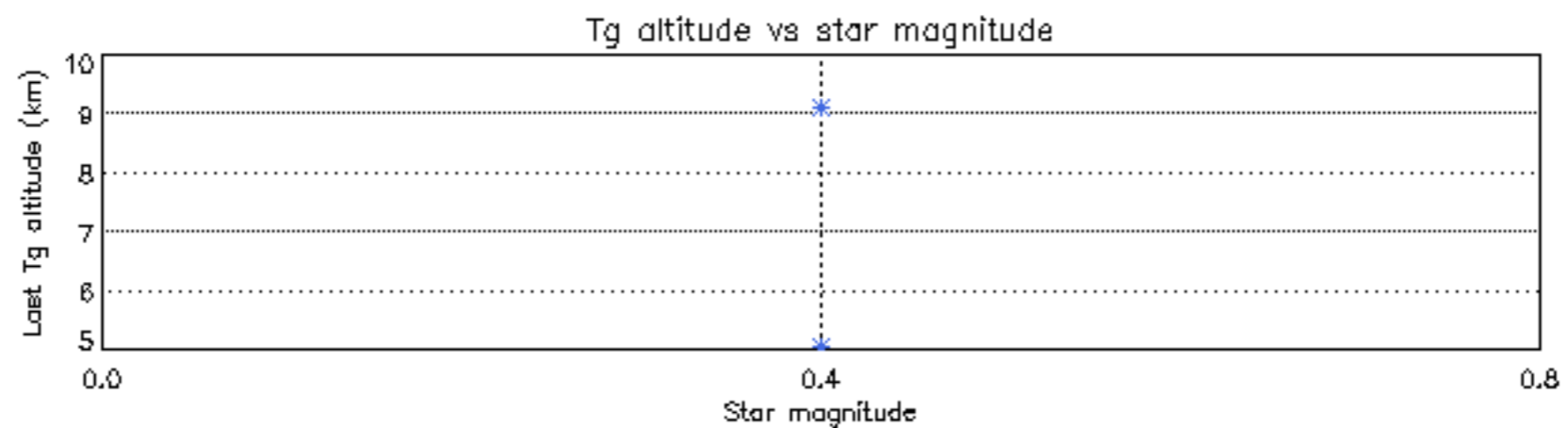
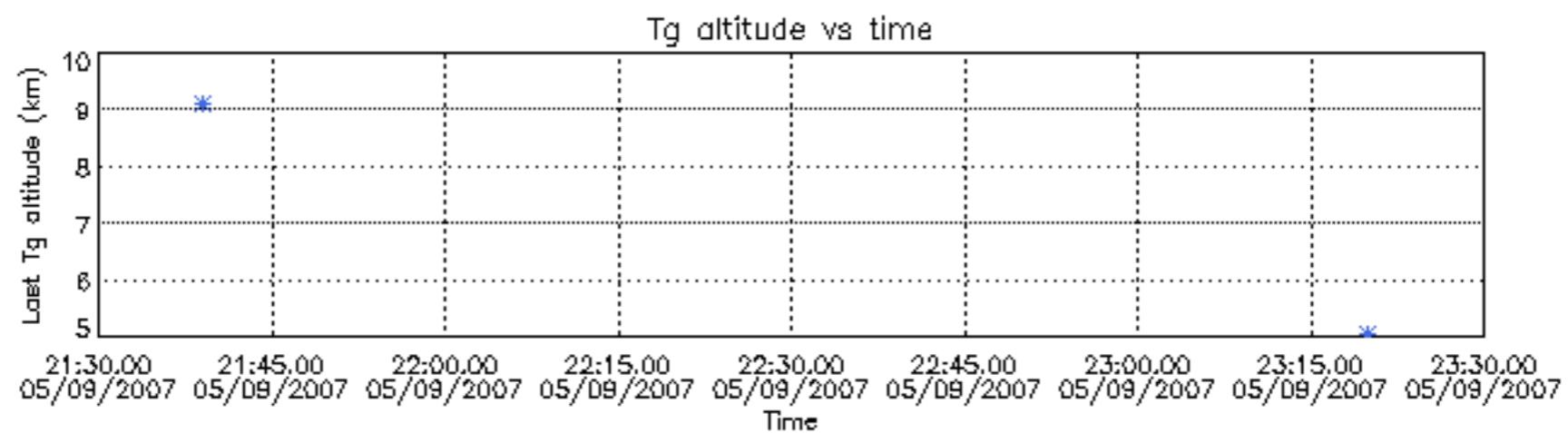


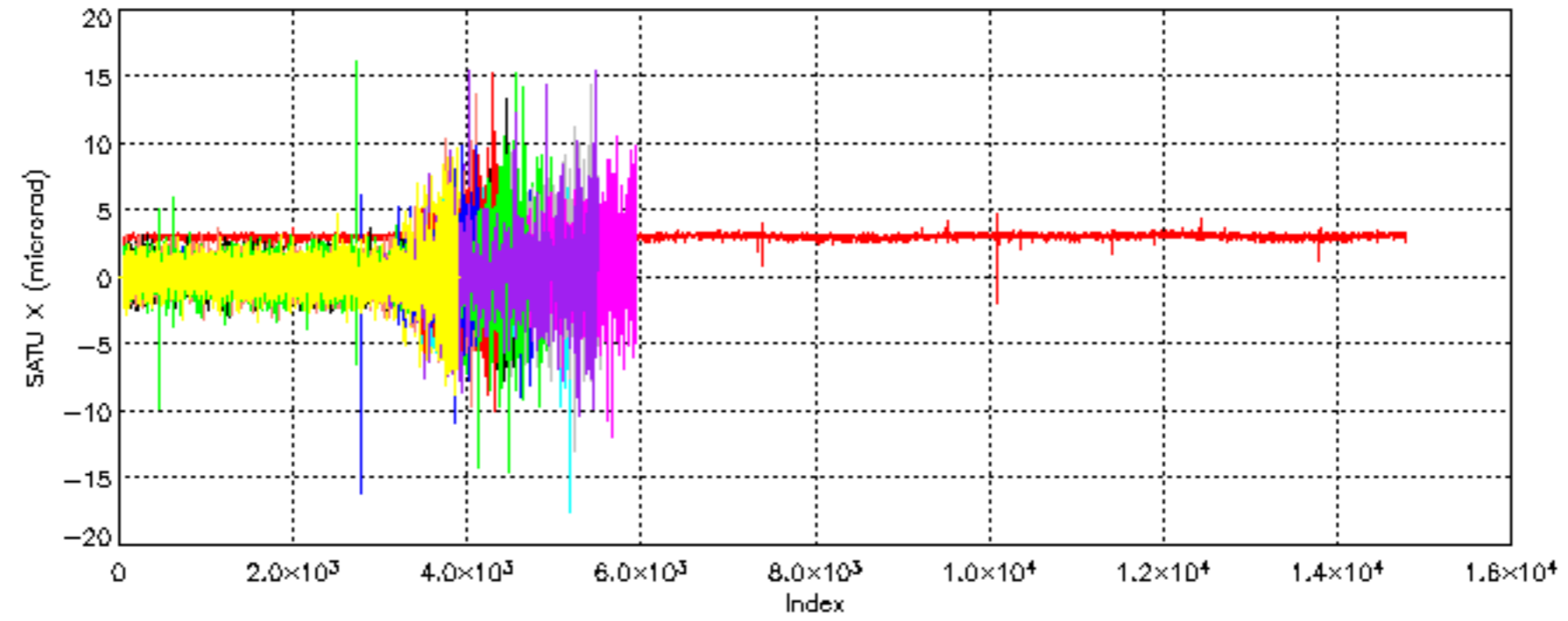
Tangent altitude at which the star is lost

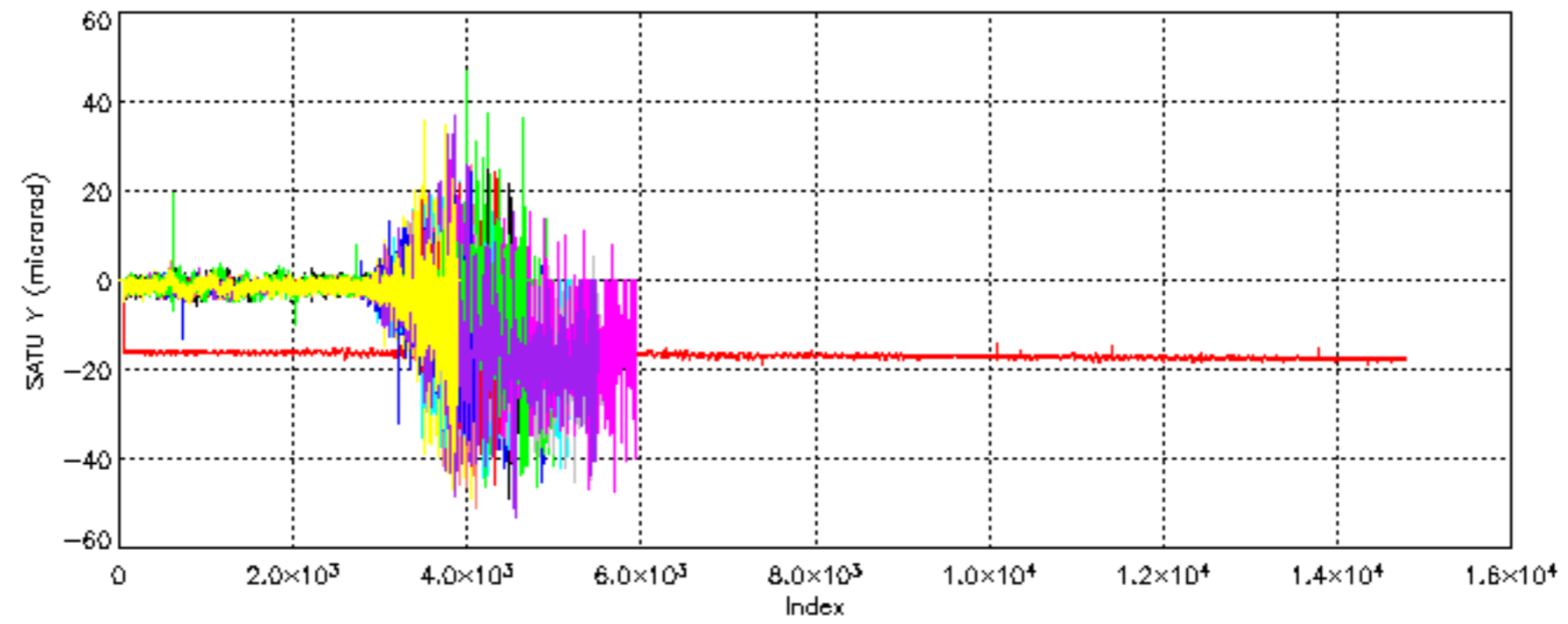


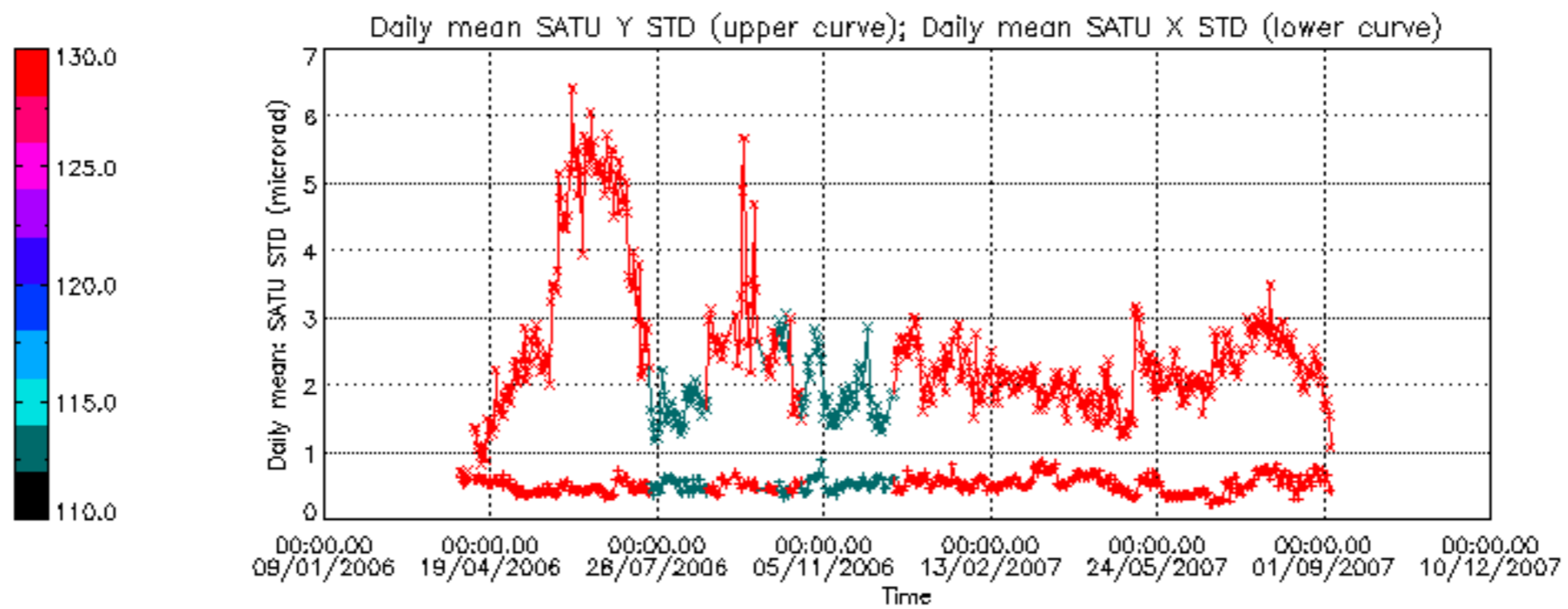


Tangent altitude at which the star is lost









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 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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 16; 4610.6; 01-SEP-2007 01:51:39; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28771  
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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  
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 13; 1619.2; 01-SEP-2007 06:03:35; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;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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13; 5542.0; 01-SEP-2007 18:53:09; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;28781
14; 5643.9; 01-SEP-2007 18:54:51; Dark ; 43.5; 177; 1Zet CMA ; 3.02; 26000;occ; 87; 0;28781
15; 5738.4; 01-SEP-2007 18:56:26; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28781
16; 6566.0; 01-SEP-2007 19:10:13; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28781
17; 6643.2; 01-SEP-2007 19:11:31; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;28781
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 2; 1331.0; 01-SEP-2007 19:23:34; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;28782
 3; 1620.2; 01-SEP-2007 19:28:24; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;28782
 4; 1808.1; 01-SEP-2007 19:31:32; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28782
 5; 1895.4; 01-SEP-2007 19:32:59; Bright; 38.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 77; 0;28782
 6; 2075.4; 01-SEP-2007 19:35:59; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28782
 7; 2975.3; 01-SEP-2007 19:50:59; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28782
 8; 3434.6; 01-SEP-2007 19:58:38; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28782
 9; 4453.2; 01-SEP-2007 20:15:37; Bright; 36.5; 24; 66Alp Gem ; 1.58; 10200;occ; 73; 0;28782
10; 4613.3; 01-SEP-2007 20:18:17; Dark ; 51.5; 170; 27Eps Gem ; 3.00; 9700;occ; 103; 0;28782
11; 4916.4; 01-SEP-2007 20:23:20; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;28782
12; 5377.4; 01-SEP-2007 20:31:01; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;28782
13; 5542.3; 01-SEP-2007 20:33:46; Dark ; 40.5; 23; 21Eps CMA ; 1.50; 26000;occ; 81; 0;28782
14; 5644.3; 01-SEP-2007 20:35:28; Dark ; 43.0; 177; 1Zet CMA ; 3.02; 26000;occ; 86; 0;28782
15; 5739.0; 01-SEP-2007 20:37:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28782
16; 6566.5; 01-SEP-2007 20:50:50; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28782
17; 6643.8; 01-SEP-2007 20:52:07; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;28782
18; 7088.6; 01-SEP-2007 20:59:32; Dark ; 1.0; 63; Bet Gru ; 2.15; 2800;occ; 2; 0;28782
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 2; -491.9; 02-SEP-2007 01:35:35; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;28785
 3; -294.9; 02-SEP-2007 01:38:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28785
 4; -87.7; 02-SEP-2007 01:42:19; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;28785

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6; 609.6; 02-SEP-2007 01:53:57; Dark ; 56.0; 9; Alp Eri ; 0.45; 24000;occ; 112; 0;28786  
7; 1053.6; 02-SEP-2007 02:01:21; Dark ; 43.0; 63; Bet Gru ; 2.15; 2800;occ; 86; 0;28786  
8; 1332.0; 02-SEP-2007 02:05:59; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;28786  
9; 1620.7; 02-SEP-2007 02:10:48; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;28786  
10; 1808.4; 02-SEP-2007 02:13:55; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28786  
11; 1895.4; 02-SEP-2007 02:15:22; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28786  
12; 2075.2; 02-SEP-2007 02:18:22; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28786  
13; 2974.9; 02-SEP-2007 02:33:22; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;28786  
14; 3434.5; 02-SEP-2007 02:41:02; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28786

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3;-1118.2; 02-SEP-2007 03:05:45; Dark ; 41.5; 8; 10Alp CMi ; 0.40; 6500;occ; 83; 0;28786  
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6; -388.7; 02-SEP-2007 03:17:54; Dark ; 42.0; 177; 1Zet CMA ; 3.02; 26000;occ; 84; 0;28786  
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8; -87.1; 02-SEP-2007 03:22:56; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;28786  
9; 532.7; 02-SEP-2007 03:33:16; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28787  
10; 610.4; 02-SEP-2007 03:34:33; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;28787  
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  
14; 1808.6; 02-SEP-2007 03:54:31; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28787  
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16; 2075.4; 02-SEP-2007 03:58:58; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28787  
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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5; -490.8; 02-SEP-2007 04:56:48; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;28787  
6; -388.0; 02-SEP-2007 04:58:31; Dark ; 42.5; 177; 1Zet CMA ; 3.02; 26000;occ; 85; 0;28787  
7; -293.5; 02-SEP-2007 05:00:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28787  
8; -86.7; 02-SEP-2007 05:03:32; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;28787  
9; 533.3; 02-SEP-2007 05:13:52; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28788  
10; 610.8; 02-SEP-2007 05:15:10; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;28788  
11; 1054.4; 02-SEP-2007 05:22:33; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;28788  
12; 1332.6; 02-SEP-2007 05:27:11; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28788  
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  
18; 3434.6; 02-SEP-2007 06:02:14; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 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  
7; 2974.1; 02-SEP-2007 20:59:56; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28797  
8; 3434.4; 02-SEP-2007 21:07:37; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28797  
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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5; -204.7; 02-SEP-2007 21:47:33; Dark ; 45.5; 108; Alp Col ; 2.65; 15200;occ; 91; 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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 12; 1809.6; 02-SEP-2007 22:21:08; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28798  
 13; 1895.4; 02-SEP-2007 22:22:34; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28798  
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 17; 4455.3; 02-SEP-2007 23:05:13; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28798  
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 3; -286.1; 02-SEP-2007 23:26:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28798  
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 5; 539.3; 02-SEP-2007 23:40:33; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28799  
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 7; 1057.6; 02-SEP-2007 23:49:12; Dark ; 46.0; 63; Bet Gru ; 2.15; 2800;occ; 92; 0;28799  
 8; 1335.4; 02-SEP-2007 23:53:49; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;28799  
 9; 1622.4; 02-SEP-2007 23:58:36; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;28799  
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 11; 1895.5; 03-SEP-2007 00:03:09; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28799  
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 13; 2973.9; 03-SEP-2007 00:21:08; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28799  
 14; 3434.5; 03-SEP-2007 00:28:48; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;28799  
 15; 4455.5; 03-SEP-2007 00:45:50; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;28799  
 16; 4921.9; 03-SEP-2007 00:53:36; Dark ; 42.5; 8; 10Alp CMi ; 0.40; 6500;occ; 85; 0;28799  
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 18; 7844.9; 02-SEP-2007 08:56:20; Bright; 36.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 73; 0;28789

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 4; 2974.6; 02-SEP-2007 09:15:45; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28790  
 5; 3434.6; 02-SEP-2007 09:23:25; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28790



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8; 4919.0; 02-SEP-2007 09:48:10; Dark ; 45.0; 8; 10Alp CMI ; 0.40; 6500;occ; 90; 0;28790
9; 5382.5; 02-SEP-2007 09:55:53; Dark ; 51.5; 1; 9Alp CMA ; -1.44; 11000;occ; 103; 0;28790
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15; 6648.6; 02-SEP-2007 10:16:59; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;28790
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3; 1622.0; 02-SEP-2007 17:16:12; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;28795
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16; 6573.7; 02-SEP-2007 18:38:44; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28795
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17; 7096.3; 03-SEP-2007 14:54:38; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;28807
18; 7374.0; 03-SEP-2007 14:59:15; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;28807

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 5; 3512.9; 05-SEP-2007 01:07:29; Bright; 86.5; 73; 57Gam1And ; 2.26; 13100;occ; 173; 0;28828
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 2; 2074.7; 06-SEP-2007 08:34:53; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28847
 3; 2472.0; 06-SEP-2007 08:41:30; Bright; 40.0; 164; 44Eta Peg ; 2.95; 5400;occ; 80; 0;28847
 4; 2971.0; 06-SEP-2007 08:49:49; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;28847
 5; 3433.7; 06-SEP-2007 08:57:32; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;28847
 6; 4462.2; 06-SEP-2007 09:14:40; Bright; 40.0; 24; 66Alp Gem ; 1.58; 10200;occ; 80; 0;28847
 7; 4938.7; 06-SEP-2007 09:22:37; Dark ; 48.0; 8; 10Alp CMi ; 0.40; 6500;occ; 96; 0;28847

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8; 5421.7; 06-SEP-2007 09:30:40; Dark ; 59.5; 1; 9Alp CMA ; -1.44; 11000;occ; 119; 0;28847  
 9; 5508.1; 06-SEP-2007 09:32:06; Dark ; 35.0; 47; 2Bet CMA ; 1.98; 28000;occ; 70; 0;28847  
 10; 5579.1; 06-SEP-2007 09:33:17; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;28847  
 11; 5664.9; 06-SEP-2007 09:34:43; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;28847  
 12; 5784.9; 06-SEP-2007 09:36:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28847  
 13; 5879.4; 06-SEP-2007 09:38:18; Dark ; 46.5; 108; Alp Col ; 2.65; 15200;occ; 93; 0;28847  
 14; 5978.1; 06-SEP-2007 09:39:56; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;28847  
 15; 6601.6; 06-SEP-2007 09:50:20; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;28847  
 16; 6682.2; 06-SEP-2007 09:51:40; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;28847  
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 2; 2074.7; 06-SEP-2007 10:15:29; Bright; 37.0; 61; 8Eps Peg ; 2.10; 3900;occ; 74; 0;28848  
 3; 2471.6; 06-SEP-2007 10:22:06; Bright; 42.0; 164; 44Eta Peg ; 2.95; 5400;occ; 84; 0;28848  
 4; 2970.8; 06-SEP-2007 10:30:25; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28848  
 5; 3433.6; 06-SEP-2007 10:38:08; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;28848  
 6; 4462.3; 06-SEP-2007 10:55:16; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;28848  
 7; 4938.9; 06-SEP-2007 11:03:13; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;28848  
 8; 5422.4; 06-SEP-2007 11:11:17; Dark ; 53.5; 1; 9Alp CMA ; -1.44; 11000;occ; 107; 0;28848  
 9; 5508.9; 06-SEP-2007 11:12:43; Dark ; 27.0; 47; 2Bet CMA ; 1.98; 28000;occ; 54; 0;28848  
 10; 5579.7; 06-SEP-2007 11:13:54; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;28848  
 11; 5665.3; 06-SEP-2007 11:15:19; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;28848  
 12; 5785.6; 06-SEP-2007 11:17:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28848  
 13; 5880.3; 06-SEP-2007 11:18:54; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;28848  
 14; 5978.5; 06-SEP-2007 11:20:33; Dark ; 43.5; 2; Alp Car ; -0.74; 7000;occ; 87; 0;28848  
 15; 6602.1; 06-SEP-2007 11:30:56; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;28848  
 16; 6682.8; 06-SEP-2007 11:32:17; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28848  
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 3; 2471.1; 06-SEP-2007 12:02:41; Bright; 40.0; 164; 44Eta Peg ; 2.95; 5400;occ; 80; 0;28849  
 4; 2970.8; 06-SEP-2007 12:11:01; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28849  
 5; 4462.4; 06-SEP-2007 12:35:52; Bright; 40.0; 24; 66Alp Gem ; 1.58; 10200;occ; 80; 0;28849  
 6; 4939.4; 06-SEP-2007 12:43:49; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;28849  
 7; 5423.1; 06-SEP-2007 12:51:53; Dark ; 49.5; 1; 9Alp CMA ; -1.44; 11000;occ; 99; 0;28849  
 8; 5509.8; 06-SEP-2007 12:53:20; Dark ; 27.0; 47; 2Bet CMA ; 1.98; 28000;occ; 54; 0;28849  
 9; 5580.3; 06-SEP-2007 12:54:30; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;28849  
 10; 5665.8; 06-SEP-2007 12:55:56; Dark ; 41.0; 117; Pi Pup ; 2.71; 3800;occ; 82; 0;28849  
 11; 5786.3; 06-SEP-2007 12:57:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28849  
 12; 5881.3; 06-SEP-2007 12:59:31; Dark ; 47.5; 108; Alp Col ; 2.65; 15200;occ; 95; 0;28849  
 13; 5979.1; 06-SEP-2007 13:01:09; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;28849  
 14; 6602.7; 06-SEP-2007 13:11:33; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28849  
 15; 6683.4; 06-SEP-2007 13:12:53; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;28849  
 16; 7038.1; 06-SEP-2007 13:18:48; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;28849  
 17; 7384.6; 06-SEP-2007 13:24:35; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;28849

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 3; 2470.9; 06-SEP-2007 13:43:17; Bright; 41.0; 164; 44Eta Peg ; 2.95; 5400;occ; 82; 0;28850  
 4; 2970.8; 06-SEP-2007 13:51:37; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28850  
 5; 3433.7; 06-SEP-2007 13:59:19; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;28850  
 6; 4462.6; 06-SEP-2007 14:16:28; Bright; 41.0; 24; 66Alp Gem ; 1.58; 10200;occ; 82; 0;28850  
 7; 4939.9; 06-SEP-2007 14:24:26; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;28850  
 8; 5423.9; 06-SEP-2007 14:32:30; Dark ; 58.0; 1; 9Alp CMA ; -1.44; 11000;occ; 116; 0;28850  
 9; 5581.1; 06-SEP-2007 14:35:07; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;28850  
 10; 5666.4; 06-SEP-2007 14:36:32; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;28850  
 11; 5787.1; 06-SEP-2007 14:38:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28850  
 12; 5882.4; 06-SEP-2007 14:40:08; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;28850  
 13; 6603.4; 06-SEP-2007 14:52:09; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28850  
 14; 6684.0; 06-SEP-2007 14:53:30; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;28850  
 15; 7038.7; 06-SEP-2007 14:59:24; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;28850

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3; 2074.8; 06-SEP-2007 15:17:17; Bright; 36.5; 61; 8Eps Peg ; 2.10; 3900;occ; 73; 0;28851
4; 2470.6; 06-SEP-2007 15:23:52; Bright; 40.5; 164; 44Eta Peg ; 2.95; 5400;occ; 81; 0;28851
5; 2970.9; 06-SEP-2007 15:32:13; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;28851
6; 3433.6; 06-SEP-2007 15:39:55; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28851
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9; 5424.7; 06-SEP-2007 16:13:06; Dark ; 56.0; 1; 9Alp CMa ; -1.44; 11000;occ; 112; 0;28851
10; 5581.8; 06-SEP-2007 16:15:44; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;28851
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3; 1895.9; 06-SEP-2007 20:16:06; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;28854
4; 2074.7; 06-SEP-2007 20:19:04; Bright; 36.0; 61; 8Eps Peg ; 2.10; 3900;occ; 72; 0;28854
5; 2469.4; 06-SEP-2007 20:25:39; Bright; 39.5; 164; 44Eta Peg ; 2.95; 5400;occ; 79; 0;28854
6; 2970.6; 06-SEP-2007 20:34:00; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28854
7; 3433.6; 06-SEP-2007 20:41:43; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28854
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17; 4463.1; 06-SEP-2007 22:39:29; Bright; 40.5; 24; 66Alp Gem ; 1.58; 10200;occ; 81; 0;28855
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8; 650.8; 06-SEP-2007 23:16:32; Dark ; 41.5; 9; Alp Eri ; 0.45; 24000;occ; 83; 0;28856
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3; 3053.8; 12-SEP-2007 14:04:29; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;28936  
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4; 3053.3; 12-SEP-2007 15:45:04; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;28937



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3; 3032.7; 15-SEP-2007 15:50:28; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;28980  
4; 3141.9; 15-SEP-2007 15:52:17; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;28980  
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6; 4997.3; 15-SEP-2007 16:23:12; Dark ; 52.5; 8; 10Alp CMI ; 0.40; 6500;occ; 105; 0;28980  
7; 5538.6; 15-SEP-2007 16:32:14; Dark ; 63.0; 1; 9Alp CMA ; -1.44; 11000;occ; 126; 0;28980  
8; 5673.9; 15-SEP-2007 16:34:29; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;28980  
9; 5895.5; 15-SEP-2007 16:38:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28980  
10; 6028.0; 15-SEP-2007 16:40:23; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;28980  
11; 6753.0; 15-SEP-2007 16:52:28; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;28980  
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3; 2414.7; 15-SEP-2007 17:20:46; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;28981  
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5; 3141.2; 15-SEP-2007 17:32:52; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;28981  
6; 4480.6; 15-SEP-2007 17:55:12; Bright; 44.0; 24; 66Alp Gem ; 1.58; 10200;occ; 88; 0;28981  
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6; 1065.5; 16-SEP-2007 01:21:16; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;28986  
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8; 2413.3; 16-SEP-2007 01:43:44; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;28986  
9; 3029.8; 16-SEP-2007 01:54:00; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;28986  
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7; 723.1; 16-SEP-2007 02:56:10; Dark ; 55.0; 157; The1Eri ; 2.91; 9300;occ; 110; 0;28987  
8; 1066.0; 16-SEP-2007 03:01:52; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;28987  
9; 2180.6; 16-SEP-2007 03:20:27; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;28987  
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11; 3029.5; 16-SEP-2007 03:34:36; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;28987  
12; 3137.7; 16-SEP-2007 03:36:24; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;28987  
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4; -356.5; 16-SEP-2007 04:18:46; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;28987



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7; 723.9; 16-SEP-2007 04:36:46; Dark ; 56.0; 157; The1Eri ; 2.91; 9300;occ; 112; 0;28988
8; 1066.3; 16-SEP-2007 04:42:29; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;28988
9; 2180.2; 16-SEP-2007 05:01:03; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;28988
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11; 3028.9; 16-SEP-2007 05:15:11; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;28988
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7; 725.1; 16-SEP-2007 06:17:24; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;28989
8; 1066.8; 16-SEP-2007 06:23:05; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;28989
9; 2180.1; 16-SEP-2007 06:41:39; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;28989
10; 2412.6; 16-SEP-2007 06:45:31; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;28989
11; 3028.6; 16-SEP-2007 06:55:47; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;28989
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4; 2410.4; 16-SEP-2007 20:10:16; Bright; 41.0; 93; 53Bet Peg ; 2.52; 3100;occ; 82; 0;28997
5; 2532.9; 16-SEP-2007 20:12:19; Bright; 27.0; 58; 21Alp And ; 2.07; 11000;occ; 54; 0;28997
6; 3025.0; 16-SEP-2007 20:20:31; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;28997
7; 3132.1; 16-SEP-2007 20:22:18; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;28997
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8; 1070.3; 16-SEP-2007 21:28:32; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;28998
9; 1528.4; 16-SEP-2007 21:36:10; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;28998
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12; 2532.2; 16-SEP-2007 21:52:54; Bright; 33.0; 58; 21Alp And ; 2.07; 11000;occ; 66; 0;28998
13; 3024.5; 16-SEP-2007 22:01:06; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;28998
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15; 4482.7; 16-SEP-2007 22:25:24; Bright; 44.0; 24; 66Alp Gem ; 1.58; 10200;occ; 88; 0;28998
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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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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  
8; 1412.5; 28-SEP-2007 00:09:25; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;29157  
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  
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