

# GOMOS Daily Report 19-SEP-2008

## 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	22SEP2008 11:19:46
Data source version	GOMOS/5.00
Start time of products	19SEP2008 00:01:55
Stop time of products	19SEP2008 06:00:58
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)

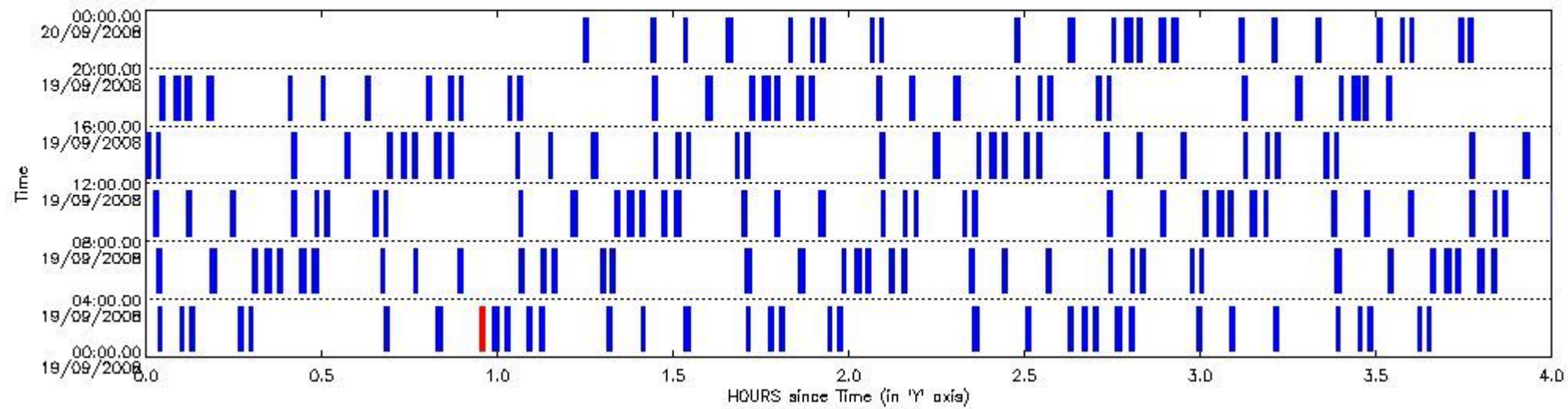
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

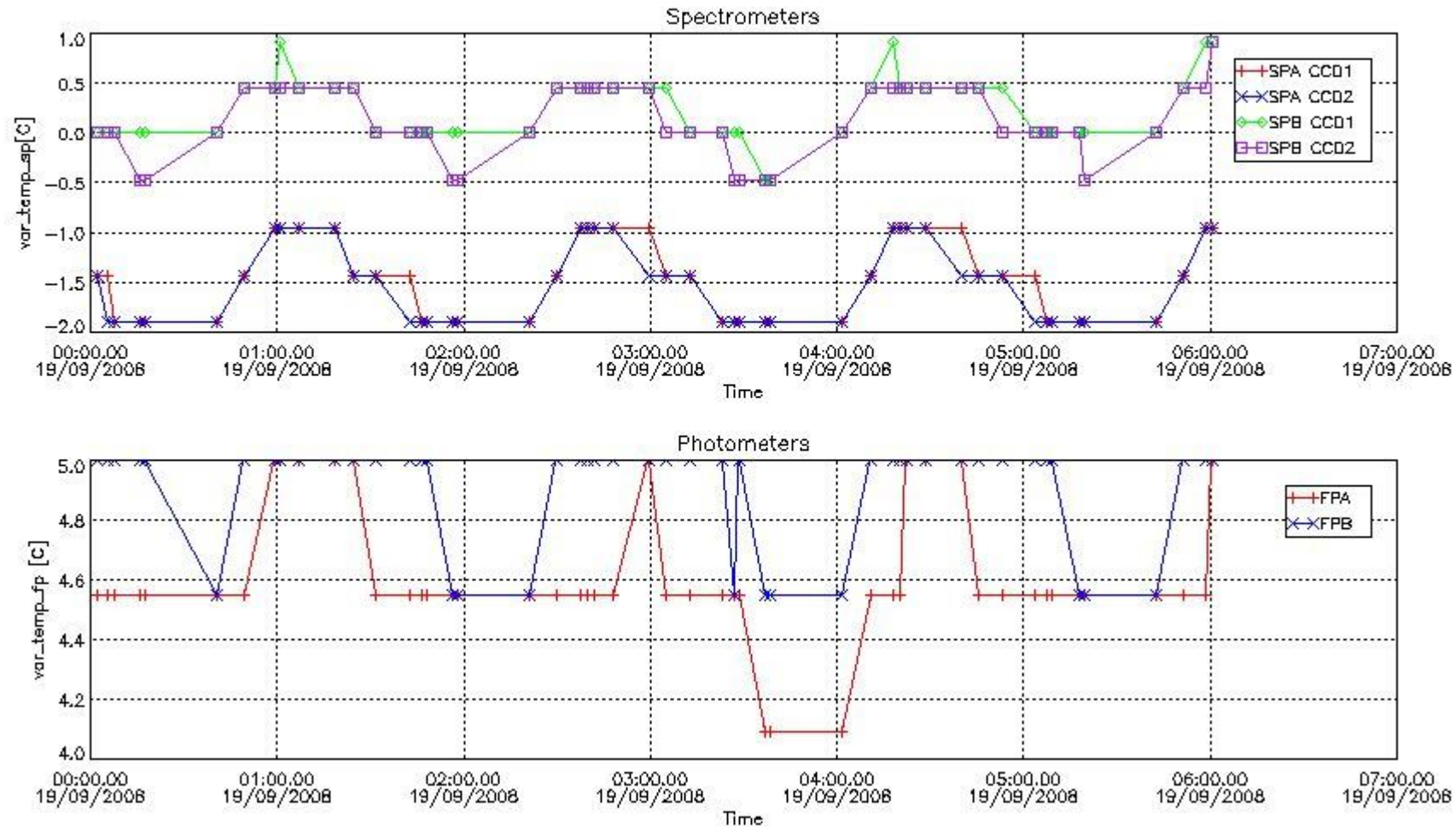
UTC start time	Star name	Star ID	Orbit
19-SEP-2008 00:56:56	15RhoPup	132	34267

### 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_1PNPDE20080919_000155_000000392072_00145_34267_7934.N1	19-SEP-2008 00:01:55	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	34267	No
2	GOM_TRA_1PNPDE20080919_000544_000000412072_00145_34267_7935.N1	19-SEP-2008 00:05:44	Bright	40.500	93	53Bet Peg	2.5200	3100.0	81	34267	No
3	GOM_TRA_1PNPDE20080919_000729_000000452072_00145_34267_7936.N1	19-SEP-2008 00:07:29	Bright	45.000	58	21Alp And	2.0730	11000.	90	34267	No
4	GOM_TRA_1PNPDE20080919_001549_000000412072_00145_34267_7937.N1	19-SEP-2008 00:15:49	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	34267	No
5	GOM_TRA_1PNPDE20080919_001732_000000392072_00145_34267_7938.N1	19-SEP-2008 00:17:32	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	34267	No
6	GOM_TRA_1PNPDE20080919_004030_000000472072_00145_34267_7939.N1	19-SEP-2008 00:40:30	Bright	46.500	24	66Alp Gem	1.5800	10200.	93	34267	No
7	GOM_TRA_1PNPDE20080919_004932_000000642072_00145_34267_7940.N1	19-SEP-2008 00:49:32	Dark	63.500	8	10Alp CMi	0.40000	6500.0	127	34267	No
8	GOM_TRA_1PNPDE20080919_005906_000000632072_00145_34267_8069.N1	19-SEP-2008 00:59:06	Dark	62.500	1	9Alp CMa	-1.4400	11000.	125	34267	No
9	GOM_TRA_1PNPDE20080919_010107_000000492072_00145_34267_8070.N1	19-SEP-2008 01:01:07	Dark	48.500	23	21Eps CMa	1.5020	26000.	97	34267	No
10	GOM_TRA_1PNPDE20080919_010711_000000472072_00146_34268_8071.N1	19-SEP-2008 01:07:11	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	34268	No

11	GOM_TRA_1PNPDE20080919_011846_000000492072_00146_34268_8072.N1	19-SEP-2008 01:18:46	Dark	49.000	9	Alp Eri	0.45300	24000.	98	34268	No
12	GOM_TRA_1PNPDE20080919_012425_000000422072_00146_34268_8073.N1	19-SEP-2008 01:24:25	Straylight	42.000	84	Alp Phe	2.3970	4500.0	84	34268	No
13	GOM_TRA_1PNPDE20080919_013152_000000552072_00146_34268_8074.N1	19-SEP-2008 01:31:52	Twilight_stray	54.500	52	16Bet Cet	2.0370	4500.0	109	34268	No
14	GOM_TRA_1PNPDE20080919_014231_000000392072_00146_34268_8075.N1	19-SEP-2008 01:42:31	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	34268	No
15	GOM_TRA_1PNPDE20080919_014619_000000382072_00146_34268_8076.N1	19-SEP-2008 01:46:19	Bright	37.500	93	53Bet Peg	2.5200	3100.0	75	34268	No
16	GOM_TRA_1PNPDE20080919_014804_000000472072_00146_34268_8077.N1	19-SEP-2008 01:48:04	Bright	46.500	58	21Alp And	2.0730	11000.	93	34268	No
17	GOM_TRA_1PNPDE20080919_015625_000000392072_00146_34268_8078.N1	19-SEP-2008 01:56:25	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	34268	No
18	GOM_TRA_1PNPDE20080919_015807_000000422072_00146_34268_8079.N1	19-SEP-2008 01:58:07	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	34268	No
19	GOM_TRA_1PNPDE20080919_022106_000000652072_00146_34268_8229.N1	19-SEP-2008 02:21:06	Bright	65.000	24	66Alp Gem	1.5800	10200.	130	34268	No
20	GOM_TRA_1PNPDE20080919_023009_000000532072_00146_34268_8230.N1	19-SEP-2008 02:30:09	Dark	52.500	8	10Alp CMi	0.40000	6500.0	105	34268	No
21	GOM_TRA_1PNPDE20080919_023732_000000442072_00146_34268_8231.N1	19-SEP-2008 02:37:32	Dark	44.000	132	15Rho Pup	2.8030	6900.0	88	34268	No
22	GOM_TRA_1PNPDE20080919_023943_000000622072_00146_34268_8232.N1	19-SEP-2008 02:39:43	Dark	61.500	1	9Alp CMa	-1.4400	11000.	123	34268	No
23	GOM_TRA_1PNPDE20080919_024144_000000482072_00146_34268_8233.N1	19-SEP-2008 02:41:44	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	34268	No
24	GOM_TRA_1PNPDE20080919_024748_000000502072_00147_34269_8234.N1	19-SEP-2008 02:47:48	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	34269	No
25	GOM_TRA_1PNPDE20080919_025922_000000432072_00147_34269_8235.N1	19-SEP-2008 02:59:22	Dark	42.500	9	Alp Eri	0.45300	24000.	85	34269	No
26	GOM_TRA_1PNPDE20080919_030501_000000432072_00147_34269_8236.N1	19-SEP-2008 03:05:01	Straylight	42.500	84	Alp Phe	2.3970	4500.0	85	34269	No
27	GOM_TRA_1PNPDE20080919_031229_000000512072_00147_34269_8237.N1	19-SEP-2008 03:12:29	Twilight_stray	51.000	52	16Bet Cet	2.0370	4500.0	102	34269	No
28	GOM_TRA_1PNPDE20080919_032307_000000392072_00147_34269_8238.N1	19-SEP-2008 03:23:07	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	34269	No
29	GOM_TRA_1PNPDE20080919_032655_000000402072_00147_34269_8239.N1	19-SEP-2008 03:26:55	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	34269	No
30	GOM_TRA_1PNPDE20080919_032840_000000442072_00147_34269_8240.N1	19-SEP-2008 03:28:40	Bright	44.000	58	21Alp And	2.0730	11000.	88	34269	No
31	GOM_TRA_1PNPDE20080919_033701_000000402072_00147_34269_8241.N1	19-SEP-2008 03:37:01	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	34269	No
32	GOM_TRA_1PNPDE20080919_033842_000000422072_00147_34269_8242.N1	19-SEP-2008 03:38:42	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	34269	No
33	GOM_TRA_1PNPDE20080919_040143_000000592072_00147_34269_8394.N1	19-SEP-2008 04:01:43	Bright	59.000	24	66Alp Gem	1.5800	10200.	118	34269	No
34	GOM_TRA_1PNPDE20080919_041045_000000652072_00147_34269_8395.N1	19-SEP-2008 04:10:45	Dark	64.500	8	10Alp CMi	0.40000	6500.0	129	34269	No
35	GOM_TRA_1PNPDE20080919_041808_000000422072_00147_34269_8396.N1	19-SEP-2008 04:18:08	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	34269	No
36	GOM_TRA_1PNPDE20080919_042020_000000662072_00147_34269_8397.N1	19-SEP-2008 04:20:20	Dark	65.500	1	9Alp CMa	-1.4400	11000.	131	34269	No
37	GOM_TRA_1PNPDE20080919_042221_000000512072_00147_34269_8398.N1	19-SEP-2008 04:22:21	Dark	51.000	23	21Eps CMa	1.5020	26000.	102	34269	No
38	GOM_TRA_1PNPDE20080919_042824_000000572072_00148_34270_8399.N1	19-SEP-2008 04:28:24	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	34270	No
39	GOM_TRA_1PNPDE20080919_043958_000000462072_00148_34270_8400.N1	19-SEP-2008 04:39:58	Dark	45.500	9	Alp Eri	0.45300	24000.	91	34270	No
40	GOM_TRA_1PNPDE20080919_044537_000000442072_00148_34270_8401.N1	19-SEP-2008 04:45:37	Straylight	44.000	84	Alp Phe	2.3970	4500.0	88	34270	No
41	GOM_TRA_1PNPDE20080919_045305_000000582072_00148_34270_8402.N1	19-SEP-2008 04:53:05	Twilight_stray	57.500	52	16Bet Cet	2.0370	4500.0	115	34270	No
42	GOM_TRA_1PNPDE20080919_050343_000000382072_00148_34270_8403.N1	19-SEP-2008 05:03:43	Bright	38.000	90	54Alp Peg	2.4870	11000.	76	34270	No
43	GOM_TRA_1PNPDE20080919_050731_000000402072_00148_34270_8404.N1	19-SEP-2008 05:07:31	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	34270	No
44	GOM_TRA_1PNPDE20080919_050915_000000462072_00148_34270_8405.N1	19-SEP-2008 05:09:15	Bright	46.000	58	21Alp And	2.0730	11000.	92	34270	No
45	GOM_TRA_1PNPDE20080919_051736_000000402072_00148_34270_8406.N1	19-SEP-2008 05:17:36	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	34270	No
46	GOM_TRA_1PNPDE20080919_051918_000000422072_00148_34270_8407.N1	19-SEP-2008 05:19:18	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	34270	No
47	GOM_TRA_1PNPDE20080919_054219_000000572072_00148_34270_8595.N1	19-SEP-2008 05:42:19	Bright	57.000	24	66Alp Gem	1.5800	10200.	114	34270	No
48	GOM_TRA_1PNPDE20080919_055122_000000552072_00148_34270_8596.N1	19-SEP-2008 05:51:22	Dark	54.500	8	10Alp CMi	0.40000	6500.0	109	34270	No
49	GOM_TRA_1PNPDE20080919_055845_000000422072_00148_34270_8597.N1	19-SEP-2008 05:58:45	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	34270	No
50	GOM_TRA_1PNPDE20080919_060058_000000642072_00148_34270_8598.N1	19-SEP-2008 06:00:58	Dark	63.500	1	9Alp CMa	-1.4400	11000.	127	34270	No

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



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

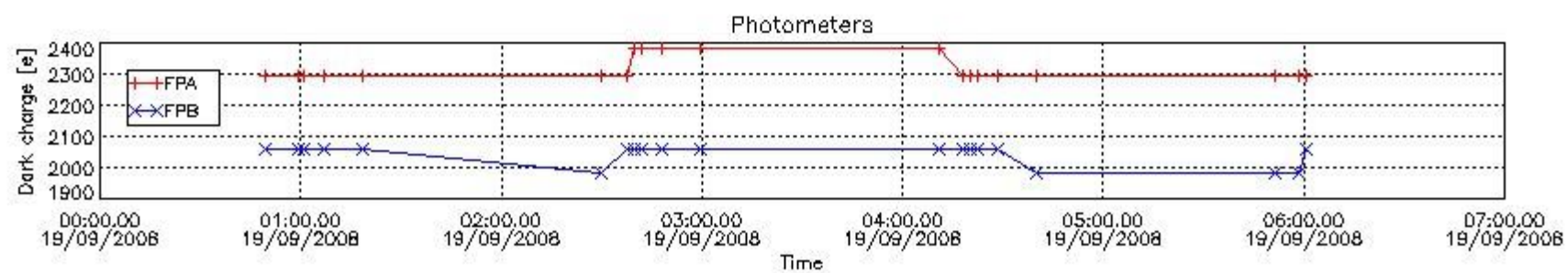
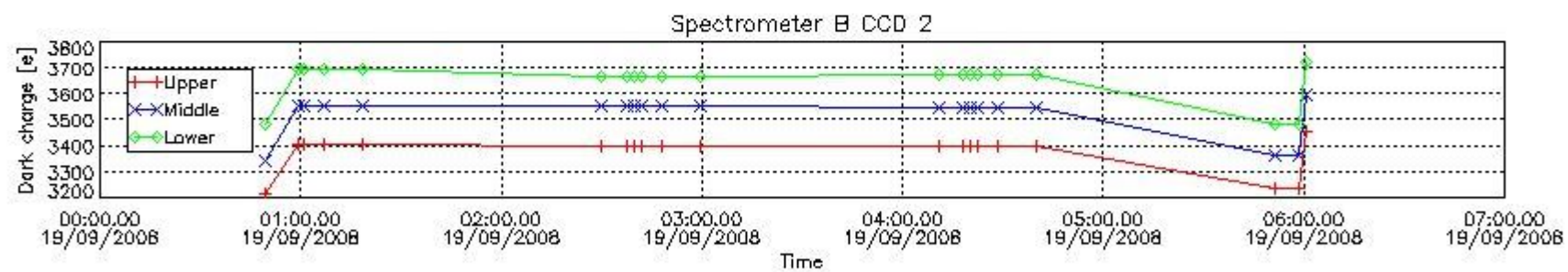
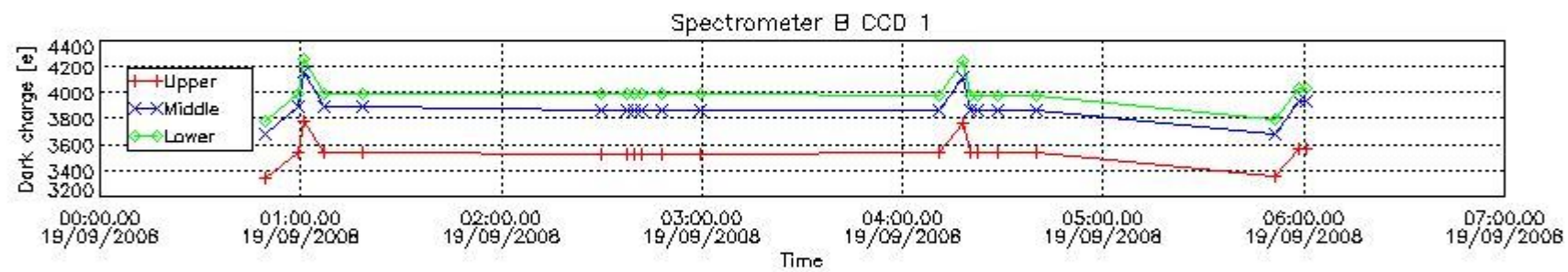
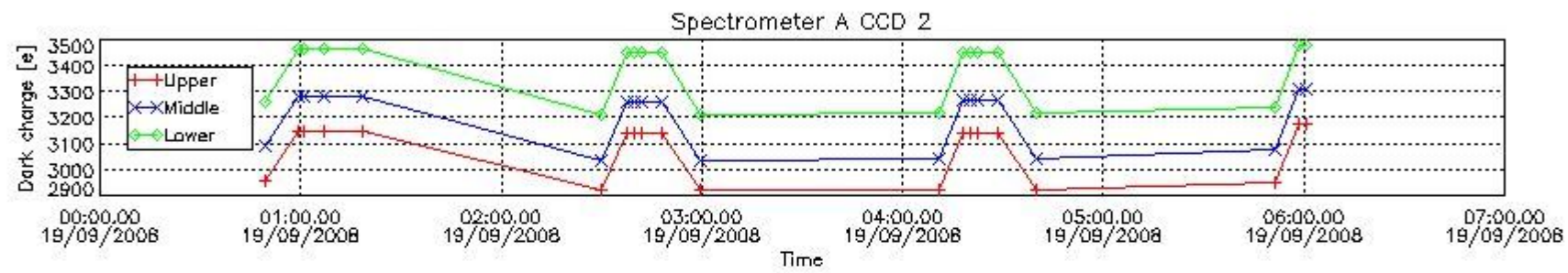
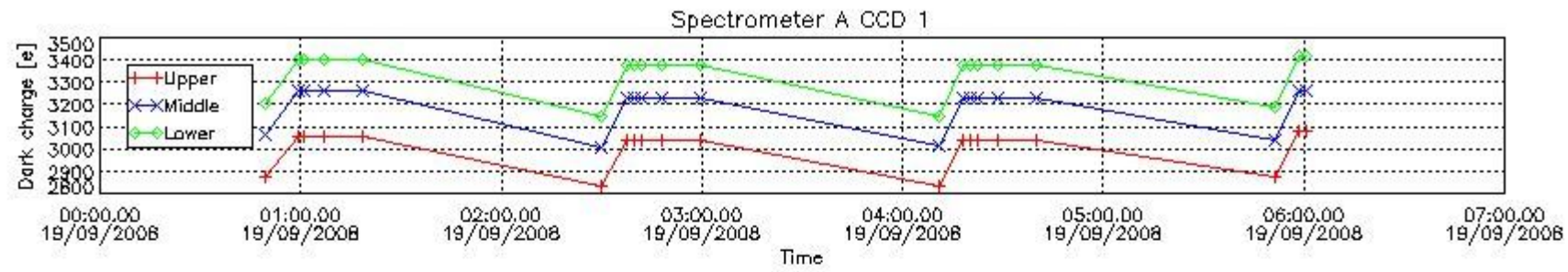
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





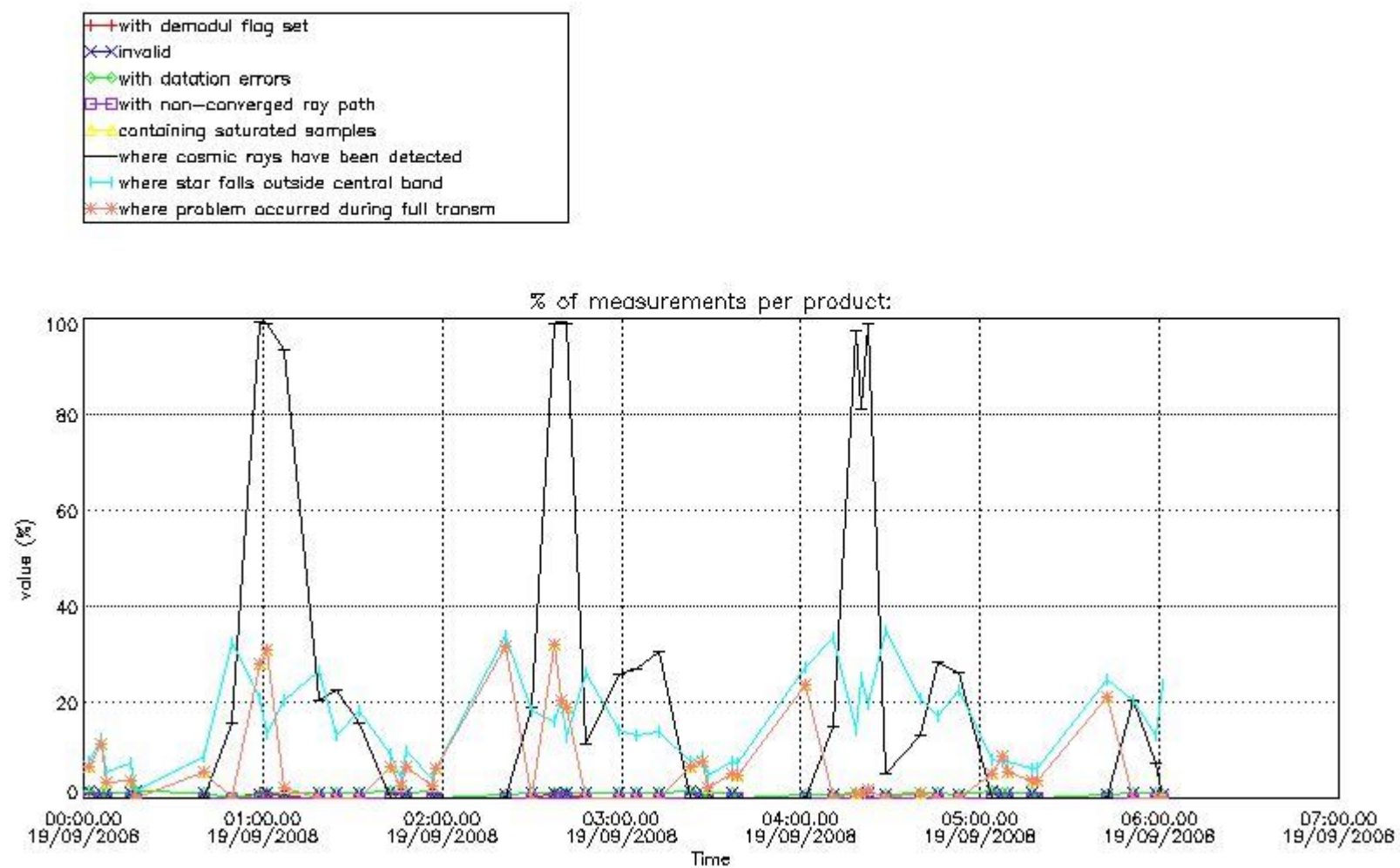
## 5. Demodulation flag and quality information monitoring

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:

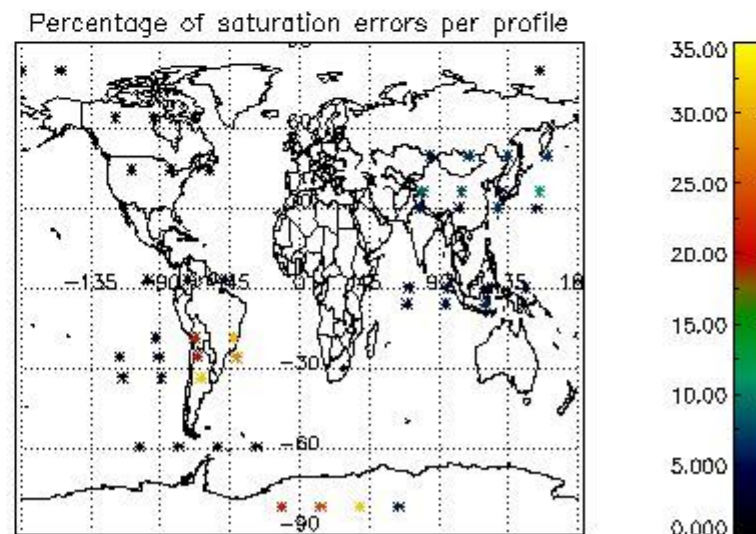
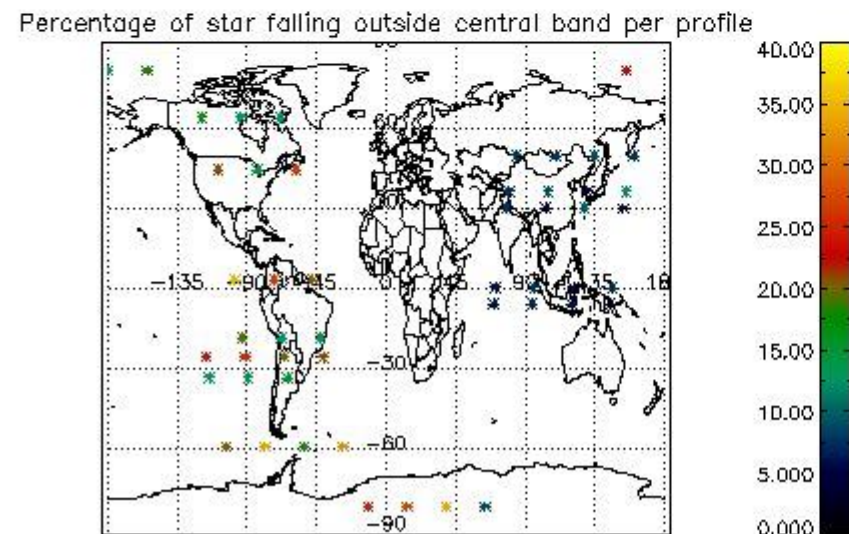
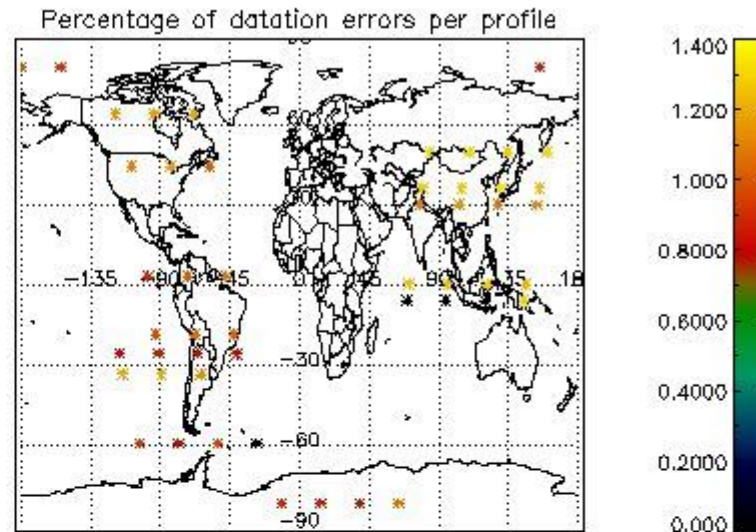
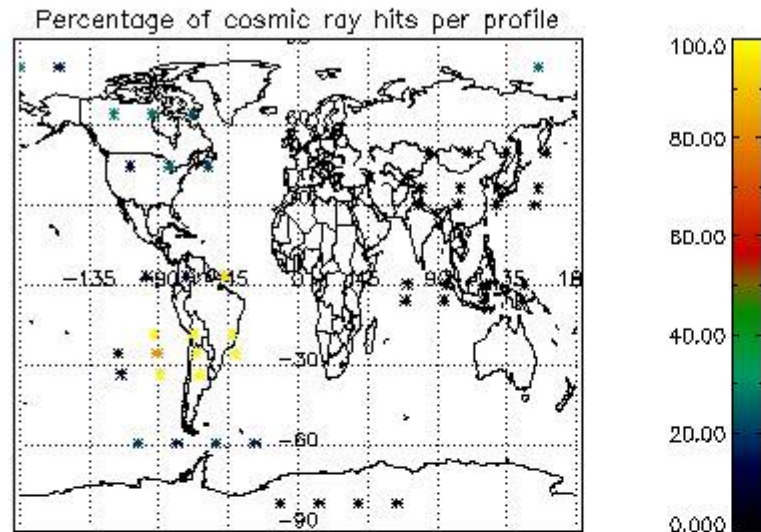
At least one measurement with demodulation flag set:	34.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





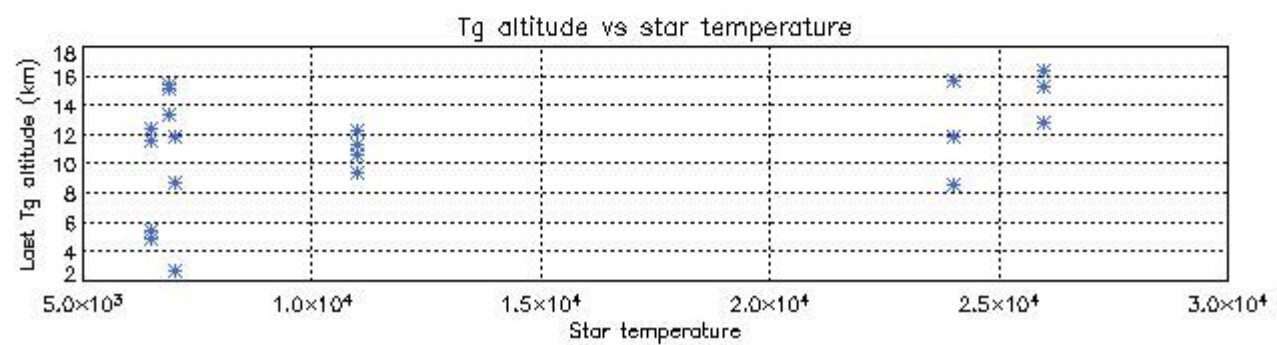
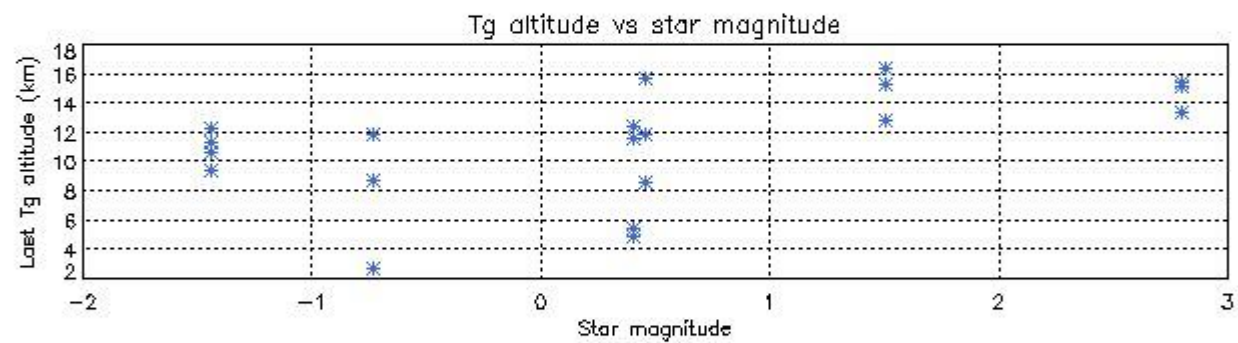
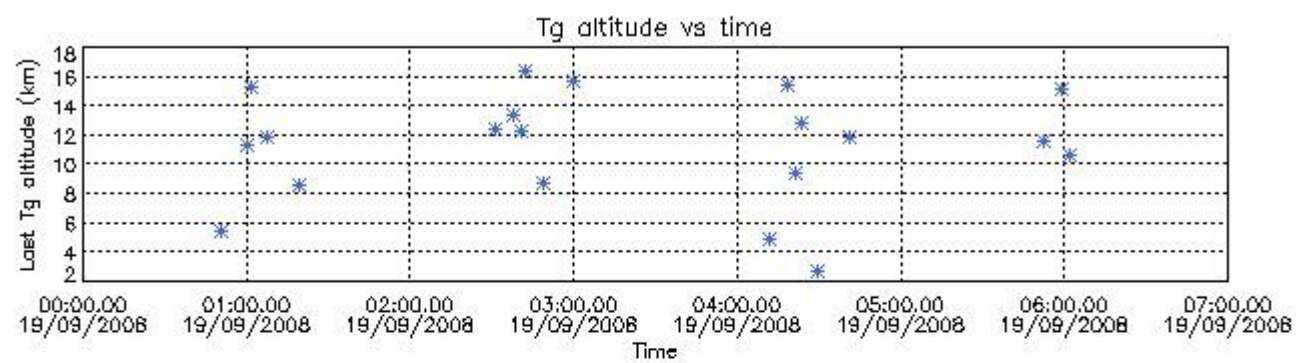
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.269	18.955	NaN
St. deviation:	3.7637	5.1800	NaN
Maximum:	16.344	28.196	NaN
Minimum:	2.7349	4.5208	NaN
Number of data:	20.000	24.000	NaN

### 6.2 Plot for DARK limb products

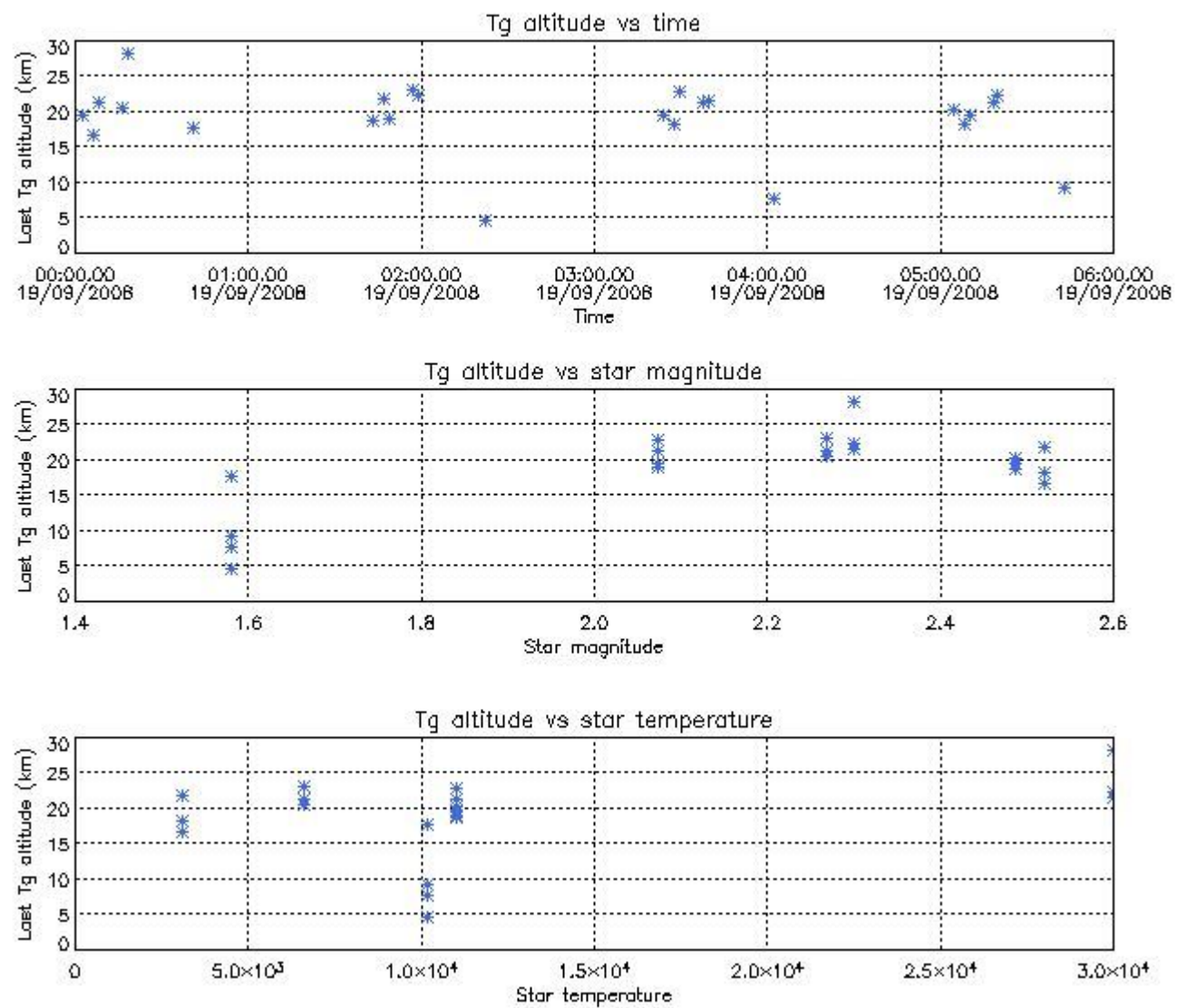
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

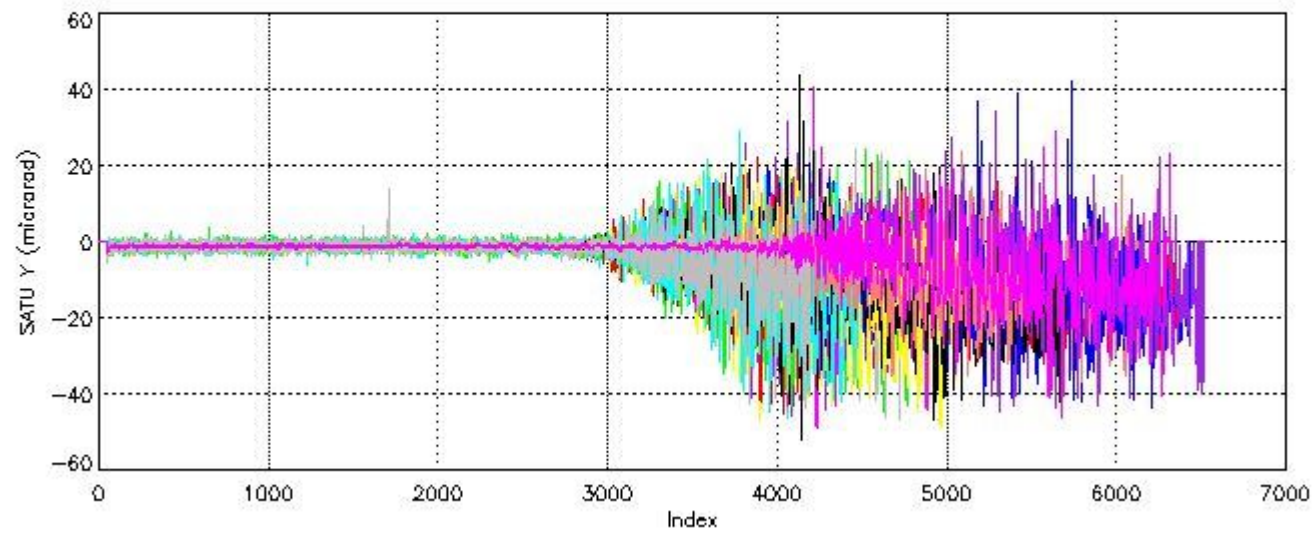
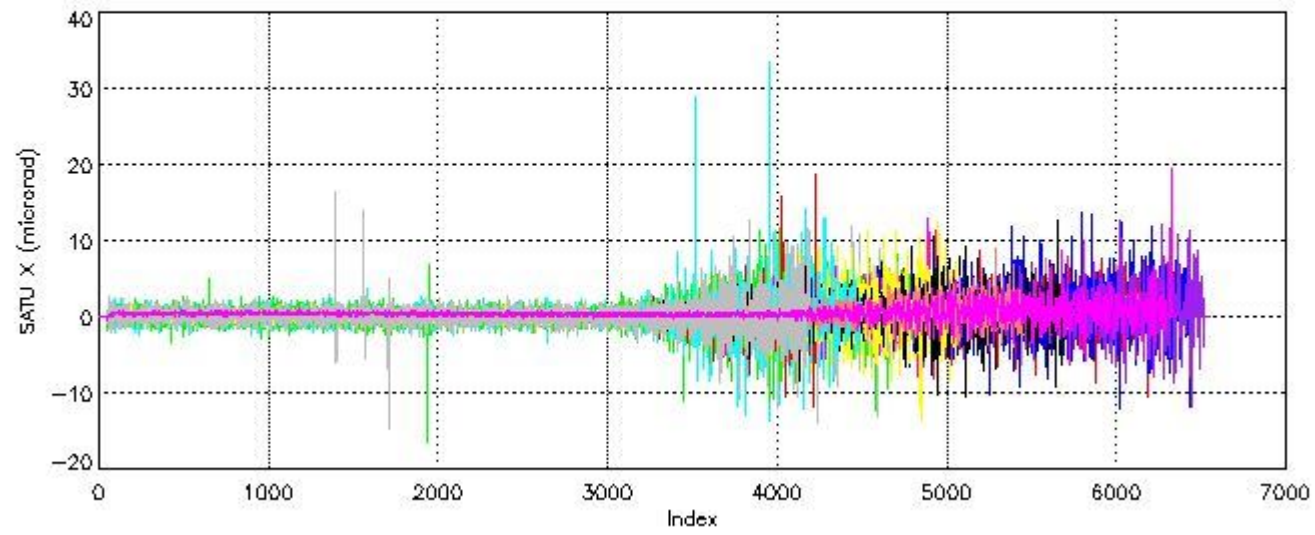


## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.21159	-1.2323	0.29231	-1.3521
St. deviation:	0.29880	0.51679	0.69099	0.84130
Maximum:	4.9000	3.9000	4.8000	2.4000
Minimum:	-3.3000	-5.6000	-4.4000	-5.8000

Number of data:	20950.	20950.	22900.	22900.
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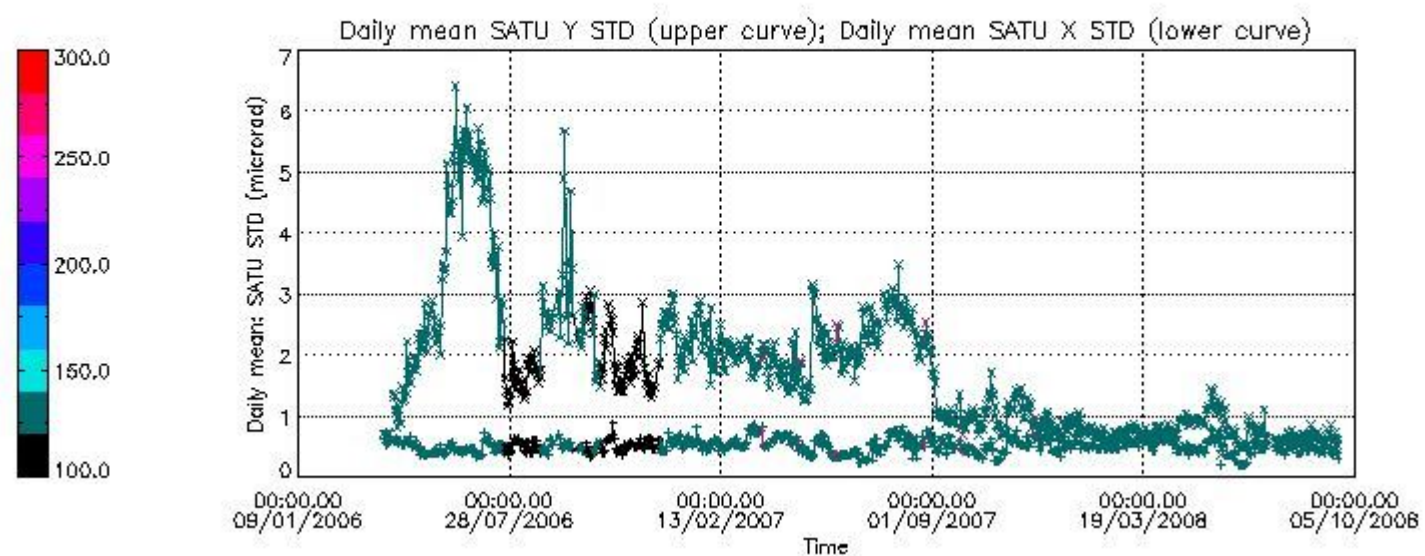
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

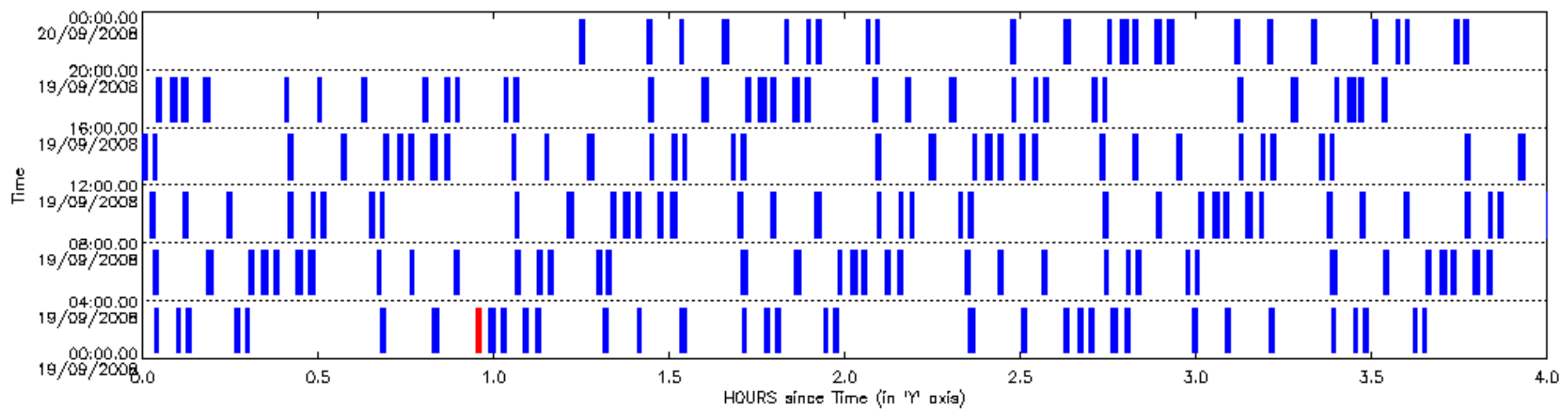


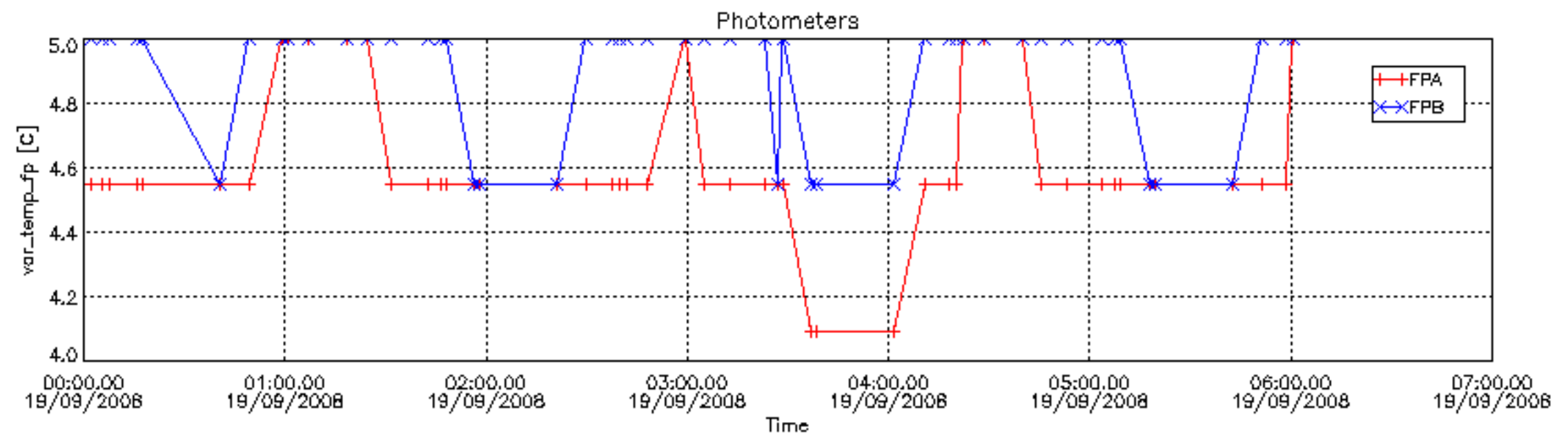
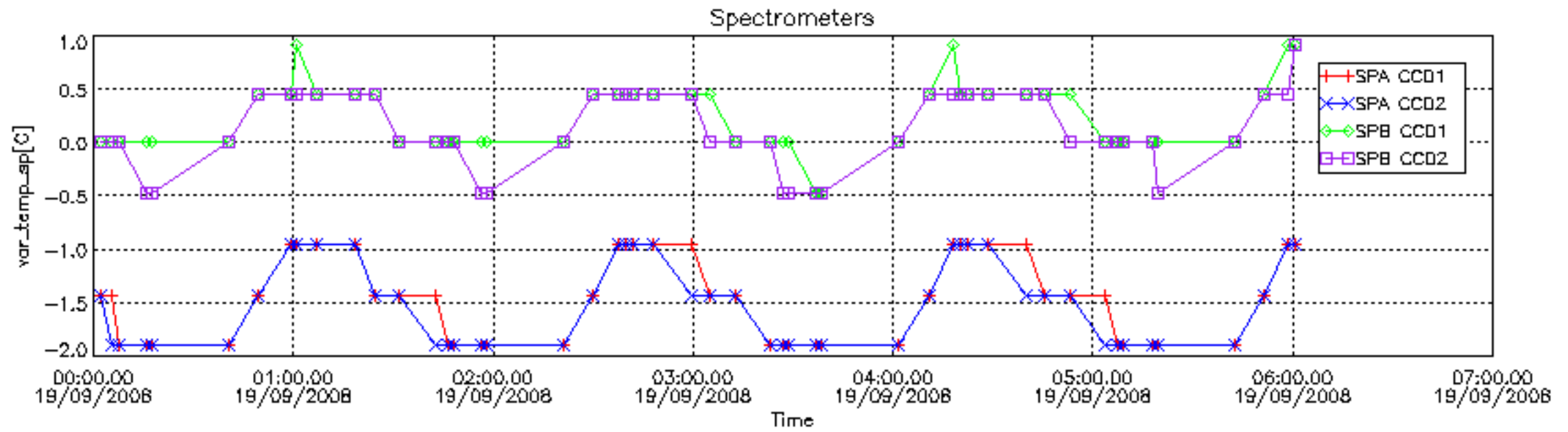
### 8. Auxiliary Data Files used for the production reported in section 2.4

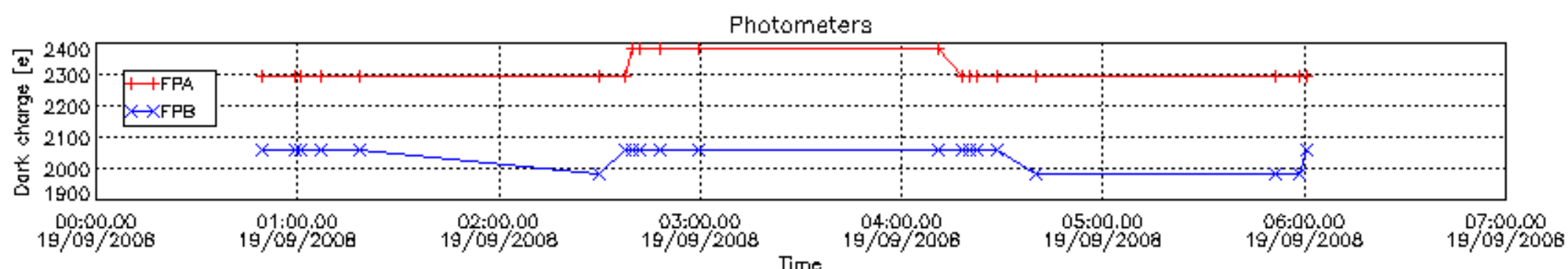
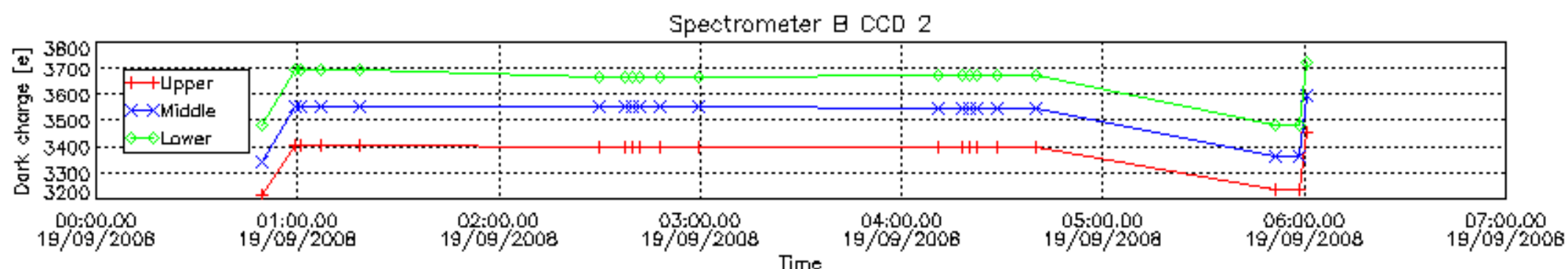
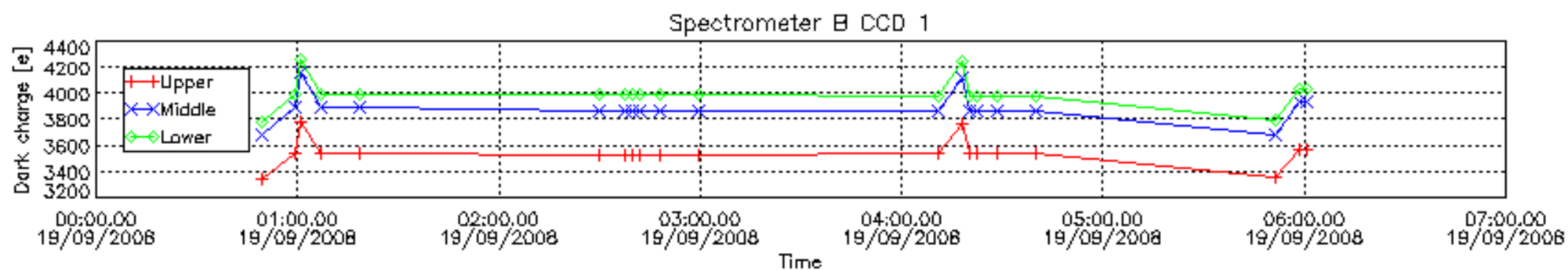
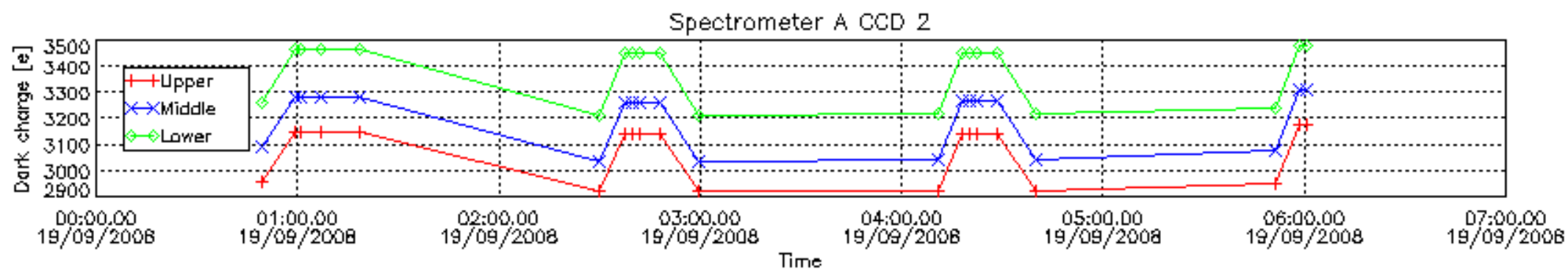
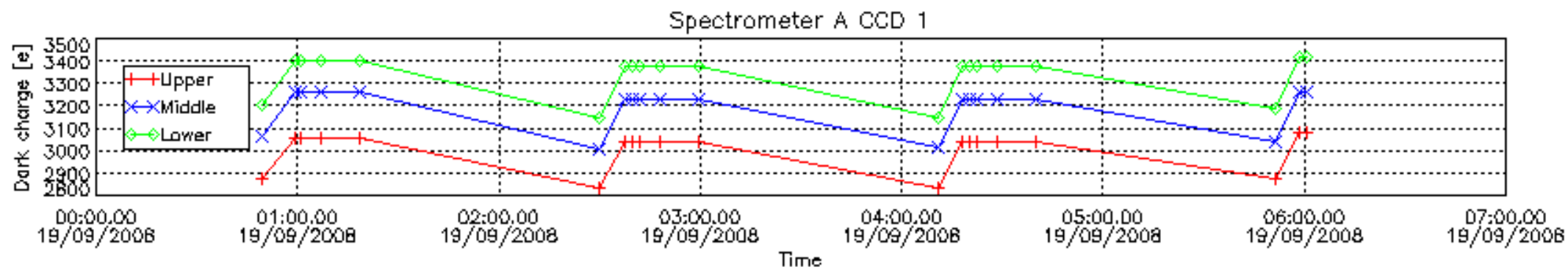
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	19-SEP-2008 00:01:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080912_090950_20080910_000000_20100101_000000	1	19-SEP-2008 00:01:55
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	19-SEP-2008 00:01:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-SEP-2008 00:01:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	19-SEP-2008 00:01:55
ECMWF_FILE	AUX_ECF_AXNECM20080918_072112_20080918_210000_20080919_090000	1	19-SEP-2008 00:01:55
ECMWF_FILE	AUX_ECF_AXNECM20080918_190112_20080919_030000_20080919_150000	33	19-SEP-2008 04:01:43
OPTIONAL_ECMWF_FILE	MISSING	1	19-SEP-2008 00:01:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080918_212752_000057382072_00143_34265_6385.N1	1	19-SEP-2008 00:01:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080918_230849_000057382072_00144_34266_6386.N1	8	19-SEP-2008 00:59:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080919_004946_000044632072_00145_34267_6387.N1	19	19-SEP-2008 02:21:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080919_020928_000054192072_00146_34268_6388.N1	33	19-SEP-2008 04:01:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080919_034506_000057382072_00147_34269_6389.N1	47	19-SEP-2008 05:42:19





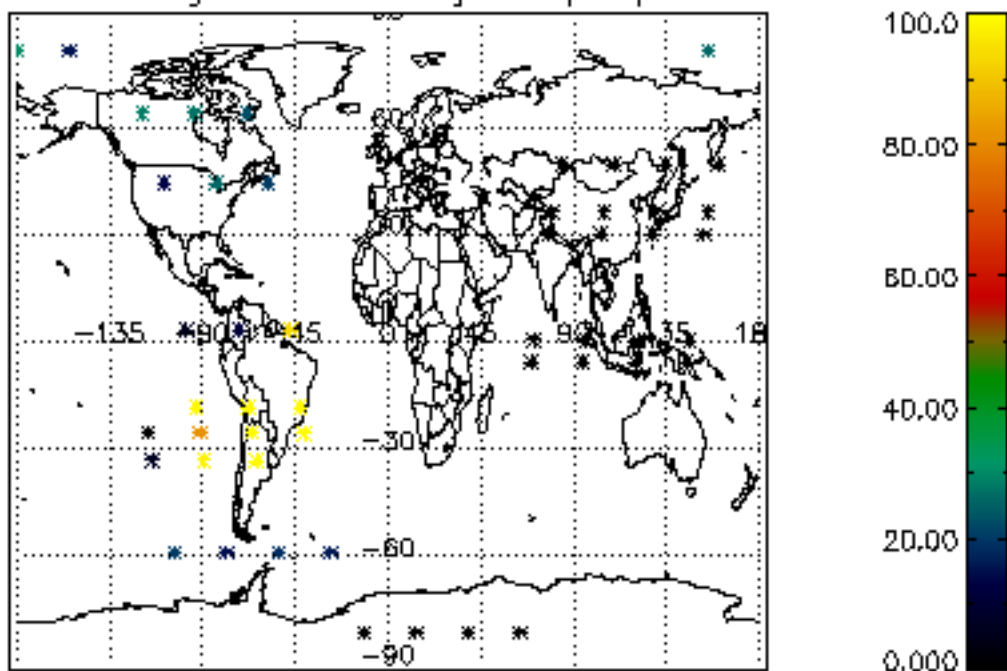




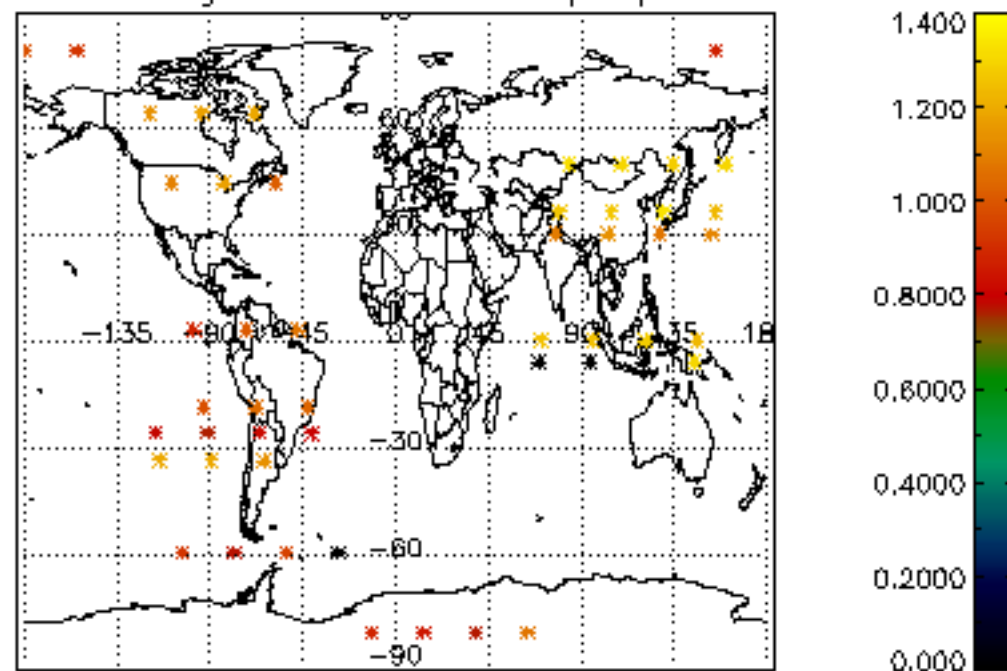




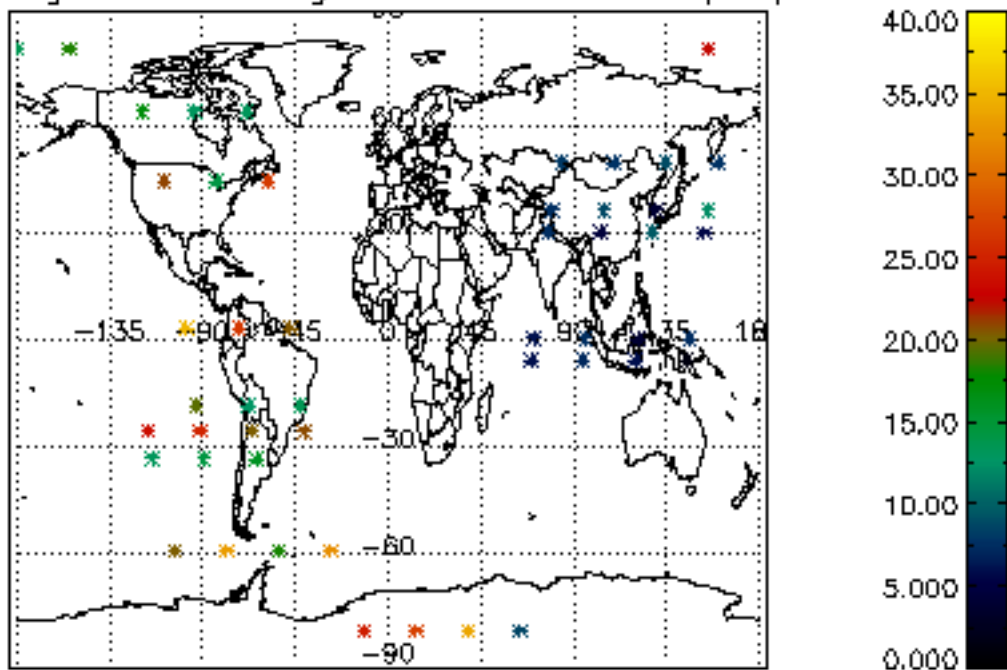
Percentage of cosmic ray hits per profile



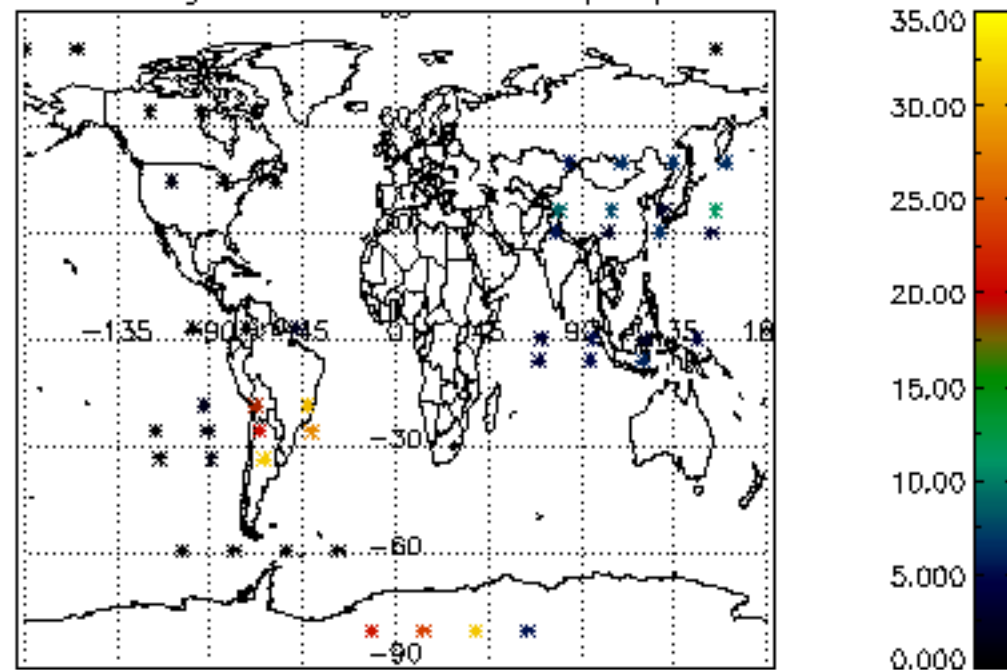
Percentage of datation errors per profile



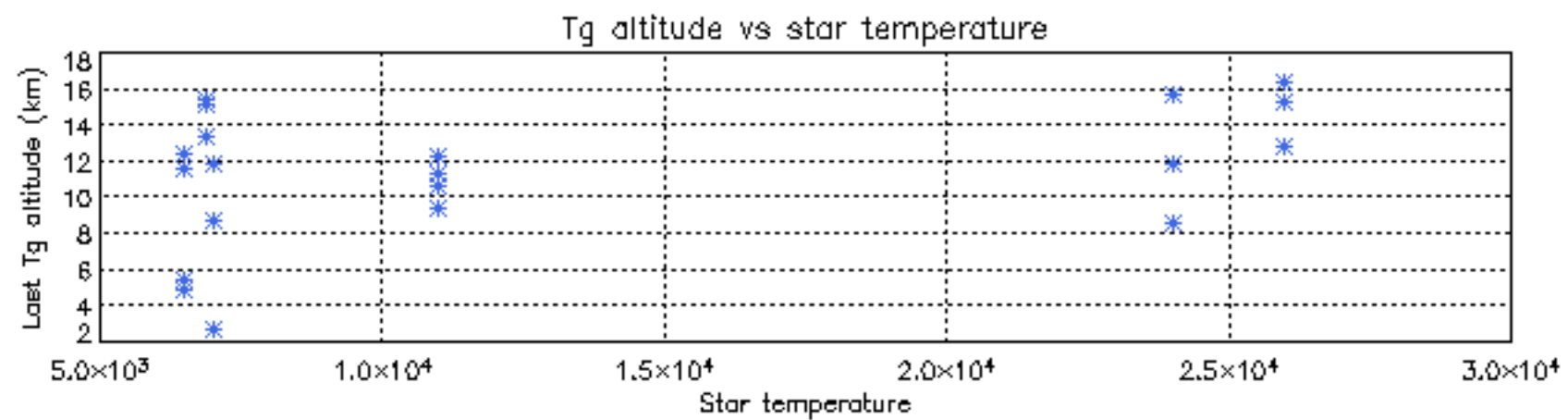
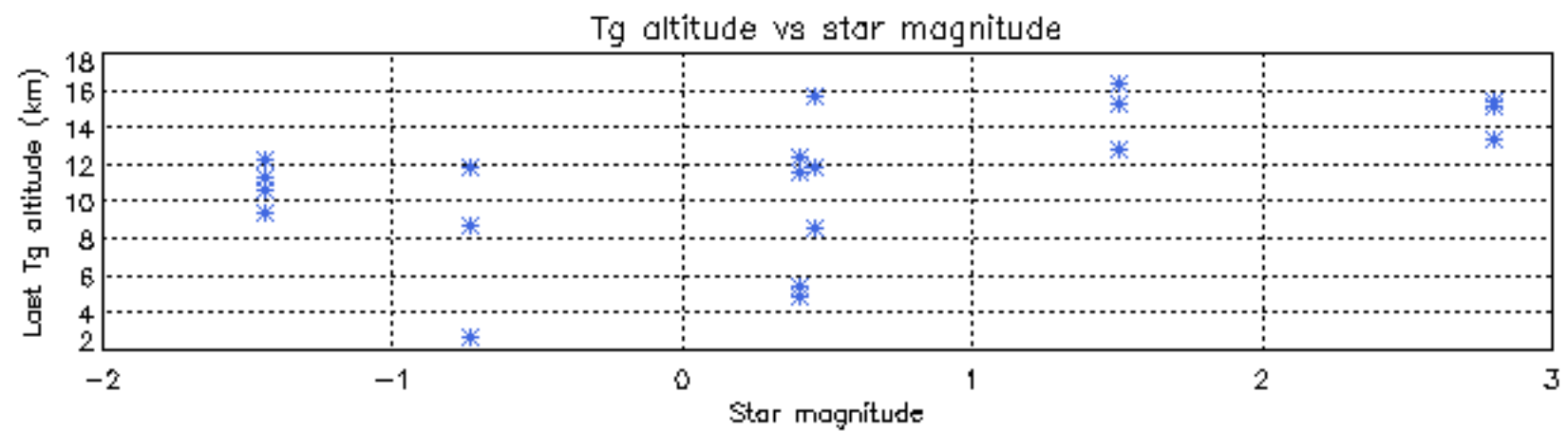
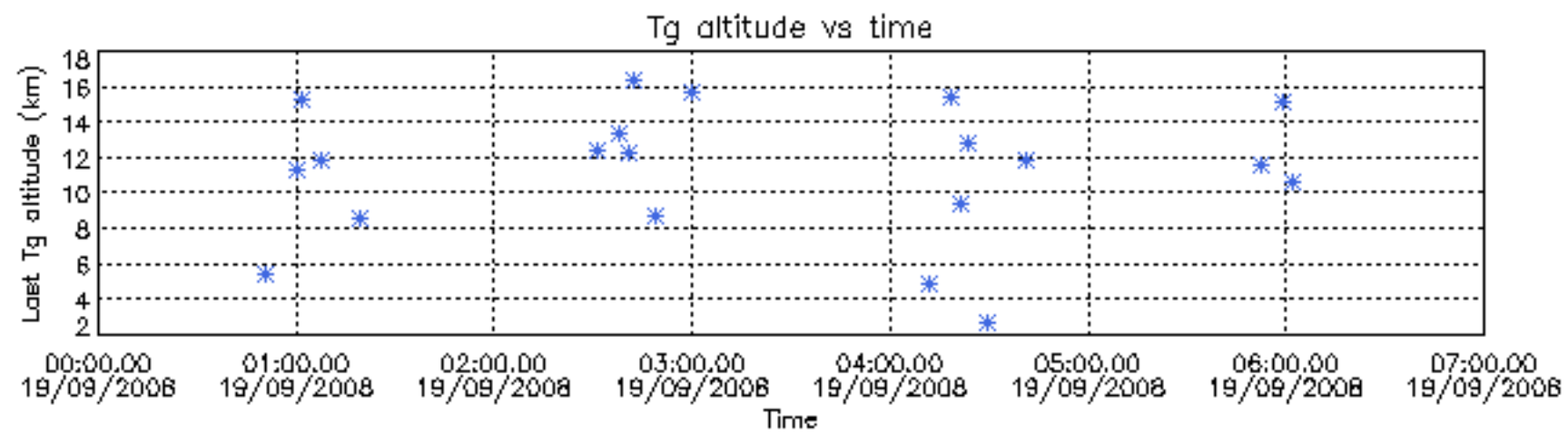
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

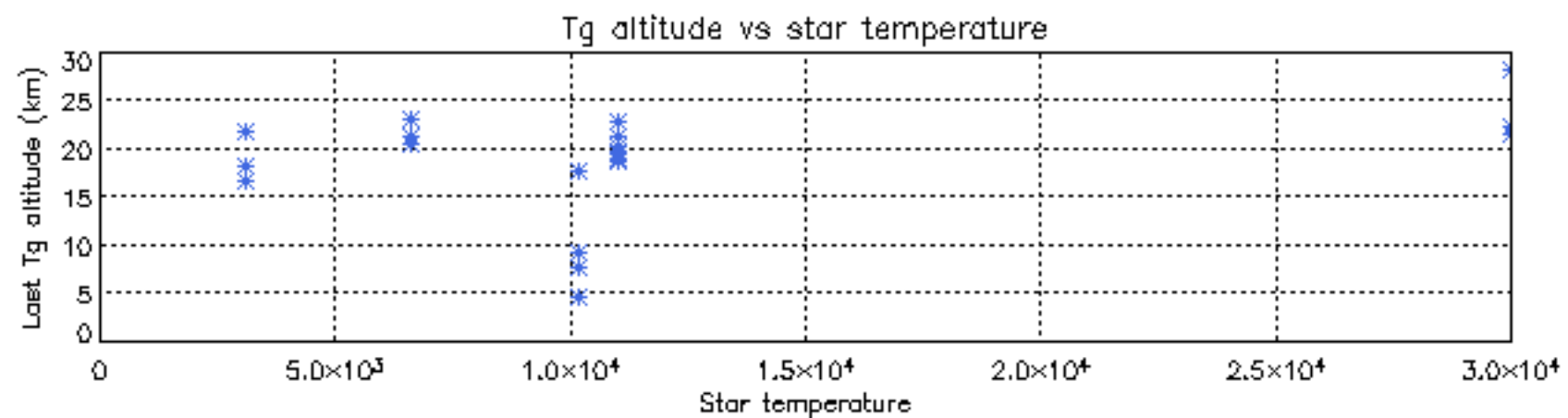
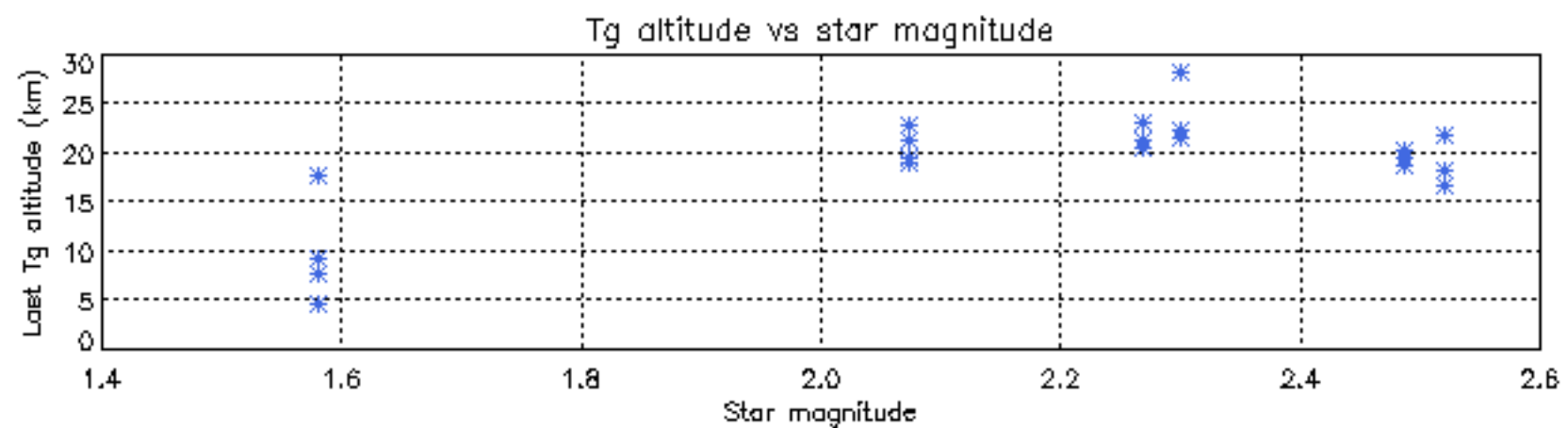
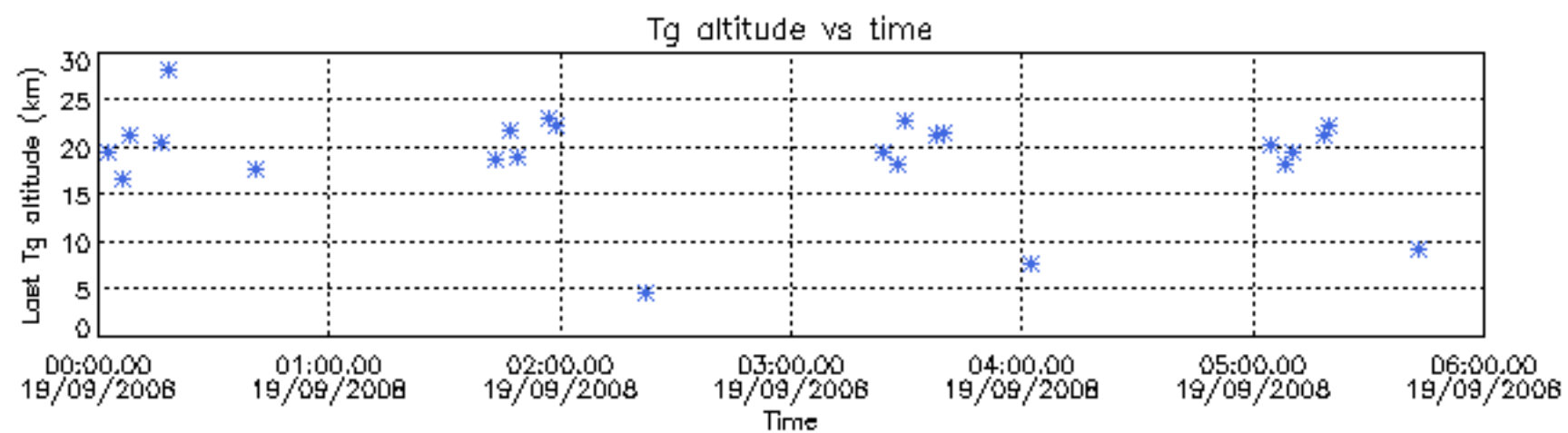


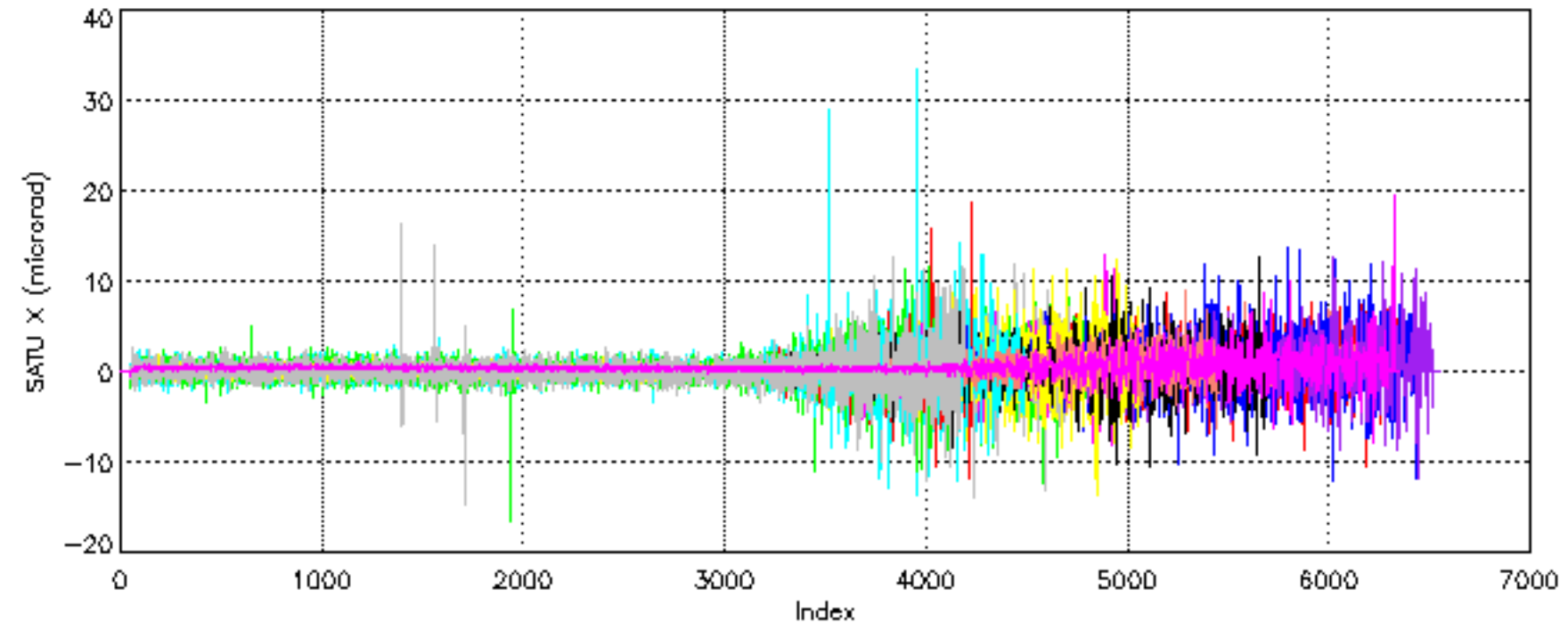
Tangent altitude at which the star is lost

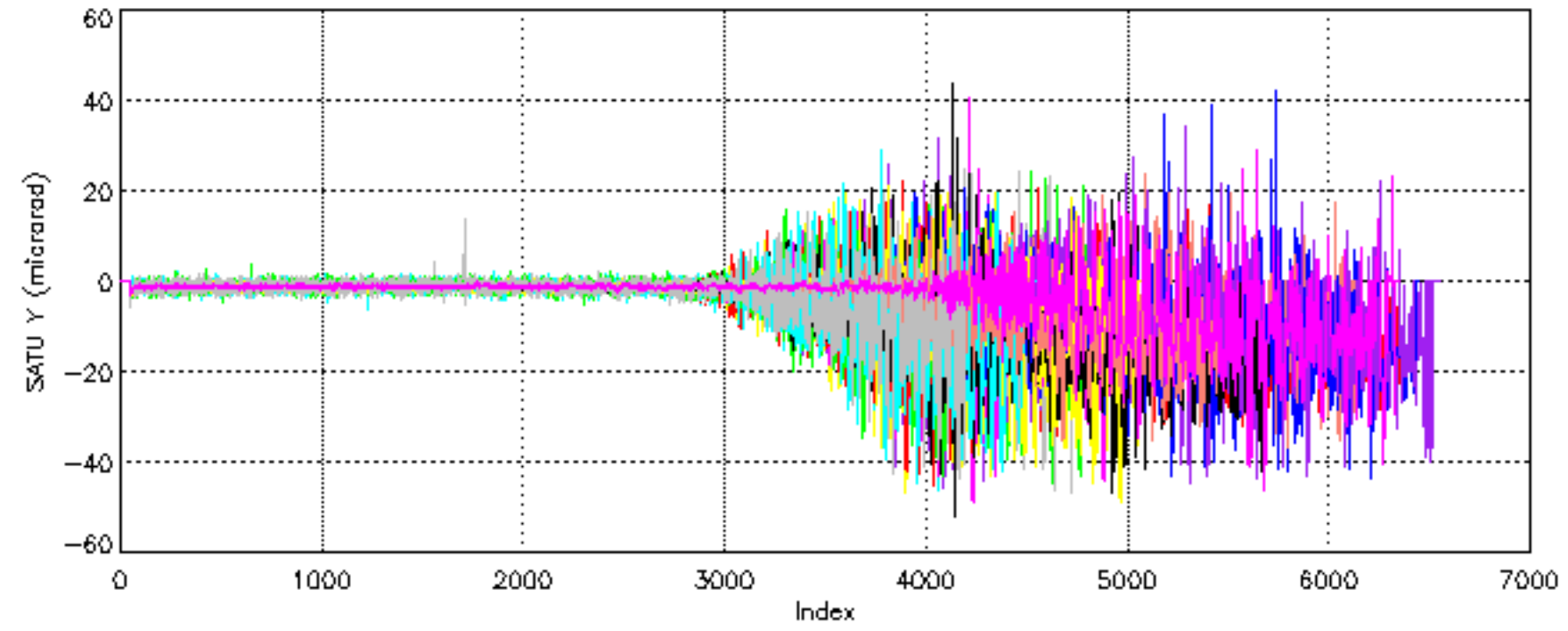




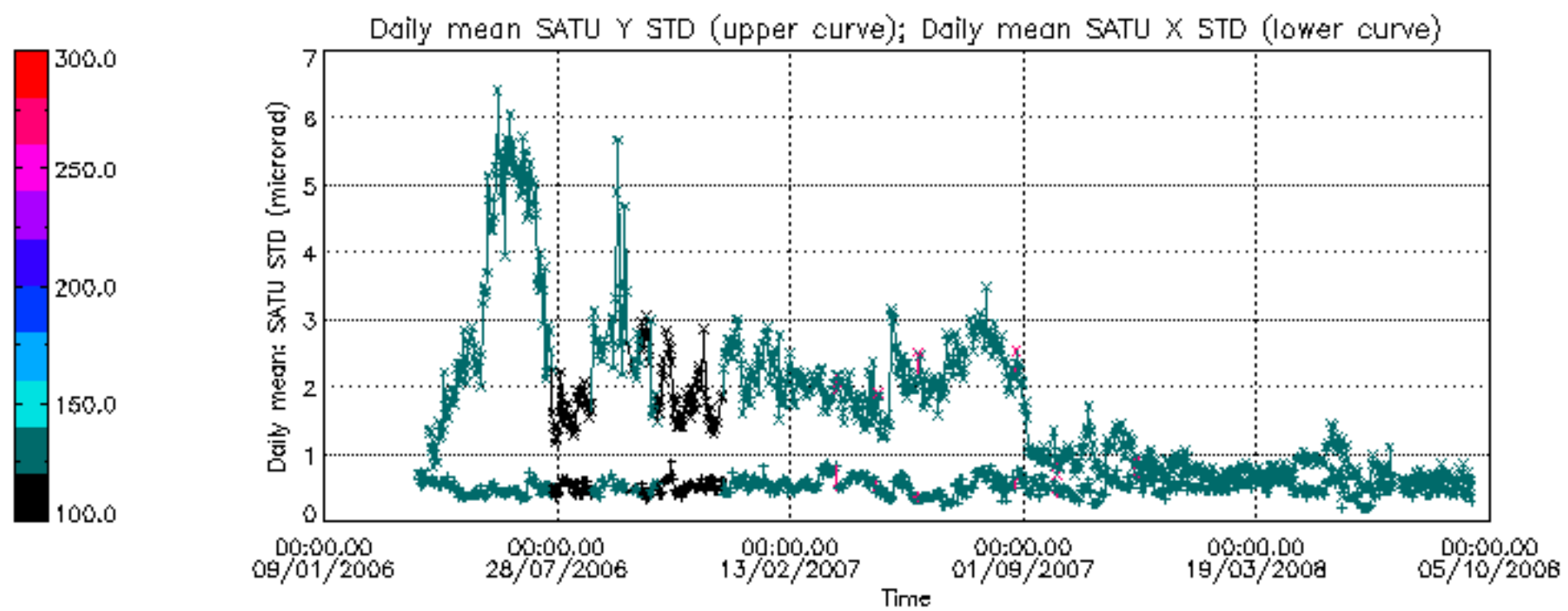
Tangent altitude at which the star is lost











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1; -659.4; 01-SEP-2008 00:20:49; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;34009  
 2; -494.2; 01-SEP-2008 00:23:34; Dark ; 41.5; 23; 21Eps CMA ; 1.50; 26000;occ; 83; 0;34009  
 3; -399.8; 01-SEP-2008 00:25:09; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;34009  
 4; -276.4; 01-SEP-2008 00:27:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34009  
 5; -89.7; 01-SEP-2008 00:30:19; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;34009  
 6; 529.6; 01-SEP-2008 00:40:38; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;34010  
 7; 606.7; 01-SEP-2008 00:41:55; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;34010  
 8; 964.3; 01-SEP-2008 00:47:53; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;34010  
 9; 1085.7; 01-SEP-2008 00:49:54; Dark ; 39.5; 31; Alp Gru ; 1.73; 15200;occ; 79; 0;34010  
 10; 1330.7; 01-SEP-2008 00:53:59; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;34010  
 11; 1620.0; 01-SEP-2008 00:58:49; Dark ; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;34010  
 12; 1807.9; 01-SEP-2008 01:01:56; Bright; 52.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 105; 0;34010  
 13; 1895.6; 01-SEP-2008 01:03:24; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;34010  
 14; 2075.4; 01-SEP-2008 01:06:24; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;34010  
 15; 2488.0; 01-SEP-2008 01:13:17; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;34010  
 16; 2600.9; 01-SEP-2008 01:15:09; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;34010  
 17; 2678.4; 01-SEP-2008 01:16:27; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;34010  
 18; 2975.3; 01-SEP-2008 01:21:24; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;34010  
 19; 3434.5; 01-SEP-2008 01:29:03; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;34010  
 20; 4453.0; 01-SEP-2008 01:46:02; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;34010  
 21; 4916.3; 01-SEP-2008 01:53:45; Dark ; 39.0; 8; 10Alp CMi ; 0.40; 6500;occ; 78; 0;34010

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1; -658.8; 01-SEP-2008 02:01:26; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;34010  
 2; -493.7; 01-SEP-2008 02:04:11; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;34010  
 3; -399.4; 01-SEP-2008 02:05:45; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;34010  
 4; -276.1; 01-SEP-2008 02:07:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34010  
 5; -89.2; 01-SEP-2008 02:10:55; Dark ; 43.5; 2; Alp Car ; -0.74; 7000;occ; 87; 0;34010  
 6; 530.3; 01-SEP-2008 02:21:15; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;34011  
 7; 607.6; 01-SEP-2008 02:22:32; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;34011  
 8; 965.0; 01-SEP-2008 02:28:29; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;34011  
 9; 1085.9; 01-SEP-2008 02:30:30; Dark ; 38.5; 31; Alp Gru ; 1.73; 15200;occ; 77; 0;34011  
 10; 1331.1; 01-SEP-2008 02:34:35; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;34011  
 11; 1620.3; 01-SEP-2008 02:39:25; Dark ; 38.5; 142; 49Del Cap ; 2.85; 8900;occ; 77; 0;34011  
 12; 1808.2; 01-SEP-2008 02:42:33; Bright; 36.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 73; 0;34011  
 13; 1895.4; 01-SEP-2008 02:44:00; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;34011  
 14; 2075.4; 01-SEP-2008 02:47:00; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;34011  
 15; 2488.0; 01-SEP-2008 02:53:52; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;34011  
 16; 2601.0; 01-SEP-2008 02:55:45; Bright; 37.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 75; 0;34011  
 17; 2678.5; 01-SEP-2008 02:57:03; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;34011  
 18; 2975.2; 01-SEP-2008 03:02:00; Bright; 34.0; 89; 5Alp Cep ; 2.45; 8000;occ; 68; 0;34011  
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 2; -1119.3; 01-SEP-2008 03:34:21; Dark ; 44.0; 8; 10Alp CMi ; 0.40; 6500;occ; 88; 0;34011  
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 4; -493.2; 01-SEP-2008 03:44:47; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;34011  
 5; -399.0; 01-SEP-2008 03:46:21; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;34011  
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 7; -88.7; 01-SEP-2008 03:51:32; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;34011  
 8; 531.0; 01-SEP-2008 04:01:51; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34012  
 9; 608.2; 01-SEP-2008 04:03:09; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;34012  
 10; 965.7; 01-SEP-2008 04:09:06; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;34012  
 11; 1086.3; 01-SEP-2008 04:11:07; Dark ; 36.5; 31; Alp Gru ; 1.73; 15200;occ; 73; 0;34012  
 12; 1331.5; 01-SEP-2008 04:15:12; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;34012  
 13; 1620.6; 01-SEP-2008 04:20:01; Dark ; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;34012  
 14; 1808.1; 01-SEP-2008 04:23:08; Bright; 36.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 73; 0;34012  
 15; 1895.6; 01-SEP-2008 04:24:36; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;34012  
 16; 2075.4; 01-SEP-2008 04:27:36; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;34012  
 17; 2488.3; 01-SEP-2008 04:34:29; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;34012  
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 19; 2678.6; 01-SEP-2008 04:37:39; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;34012  
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 3; -657.5; 01-SEP-2008 05:22:39; Dark ; 49.5; 1; 9Alp CMA ; -1.44; 11000;occ; 99; 0;34012

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4; -492.5; 01-SEP-2008 05:25:24; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;34012
5; -398.5; 01-SEP-2008 05:26:58; Dark ; 42.0; 117; Pi Pup ; 2.71; 3800;occ; 84; 0;34012
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7; -88.3; 01-SEP-2008 05:32:08; Dark ; 53.5; 2; Alp Car ;-0.74; 7000;occ; 107; 0;34012
8; 531.5; 01-SEP-2008 05:42:28; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;34013
9; 608.8; 01-SEP-2008 05:43:45; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;34013
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11; 1086.5; 01-SEP-2008 05:51:43; Dark ; 37.0; 31; Alp Gru ; 1.73; 15200;occ; 74; 0;34013
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13; 1620.7; 01-SEP-2008 06:00:37; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;34013
14; 1808.2; 01-SEP-2008 06:03:45; Bright; 36.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 73; 0;34013
15; 1895.6; 01-SEP-2008 06:05:12; Bright; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;34013
16; 2075.4; 01-SEP-2008 06:08:12; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;34013
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18; 2601.5; 01-SEP-2008 06:16:58; Bright; 34.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 69; 0;34013
19; 2678.7; 01-SEP-2008 06:18:15; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;34013
20; 2975.2; 01-SEP-2008 06:23:12; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;34013
21; 3434.7; 01-SEP-2008 06:30:51; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;34013
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3; 1334.1; 01-SEP-2008 21:01:14; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;34022
4; 1621.6; 01-SEP-2008 21:06:01; Dark ; 50.0; 142; 49Del Cap ; 2.85; 8900;occ; 100; 0;34022
5; 1809.1; 01-SEP-2008 21:09:09; Bright; 52.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 104; 0;34022
6; 1895.4; 01-SEP-2008 21:10:35; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;34022
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9; 2602.7; 01-SEP-2008 21:22:22; Bright; 33.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 66; 0;34022
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11; 2974.3; 01-SEP-2008 21:28:34; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;34022
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13; 1895.4; 01-SEP-2008 22:51:11; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;34023
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16; 2602.9; 01-SEP-2008 23:02:58; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;34023
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1;-1565.8; 04-SEP-2008 06:53:51; Bright; 56.0; 24; 66Alp Gem ; 1.58; 10200;occ; 112; 21;34056  
 2;-1104.1; 04-SEP-2008 07:01:33; Dark ; 36.5; 8; 10Alp CMi ; 0.40; 6500;occ; 73; 0;34056  
 3; -628.2; 04-SEP-2008 07:09:29; Dark ; 49.5; 1; 9Alp CMA ; -1.44; 11000;occ; 99; 0;34056  
 4; -544.9; 04-SEP-2008 07:10:52; Dark ; 47.0; 47; 2Bet CMA ; 1.98; 28000;occ; 94; 0;34056  
 5; -468.3; 04-SEP-2008 07:12:09; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;34056  
 6; -379.9; 04-SEP-2008 07:13:37; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;34056  
 7; -258.6; 04-SEP-2008 07:15:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34056  
 8; -138.8; 04-SEP-2008 07:17:38; Dark ; 40.5; 161; Tau Pup ; 2.93; 4500;occ; 81; 0;34056  
 9; -67.4; 04-SEP-2008 07:18:49; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;34056  
 10; 555.4; 04-SEP-2008 07:29:12; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;34057  
 11; 635.1; 04-SEP-2008 07:30:32; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;34057  
 12; 991.0; 04-SEP-2008 07:36:28; Dark ; 57.0; 84; Alp Phe ; 2.40; 4500;occ; 114; 0;34057  
 13; 1097.0; 04-SEP-2008 07:38:14; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;34057  
 14; 1265.8; 04-SEP-2008 07:41:03; Dark ; 38.0; 172; Gam Gru ; 3.00; 13100;occ; 76; 0;34057  
 15; 1343.3; 04-SEP-2008 07:42:20; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;34057  
 16; 1626.6; 04-SEP-2008 07:47:03; Dark ; 40.0; 142; 49Del Cap ; 2.85; 8900;occ; 80; 0;34057

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1; 1812.8; 04-SEP-2008 07:50:10; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;34057  
 2; 1895.5; 04-SEP-2008 07:51:32; Bright; 38.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 77; 0;34057  
 3; 2074.6; 04-SEP-2008 07:54:31; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;34057  
 4; 2492.2; 04-SEP-2008 08:01:29; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;34057  
 5; 2681.7; 04-SEP-2008 08:04:39; Bright; 35.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 70; 0;34057  
 6; 2972.0; 04-SEP-2008 08:09:29; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;34057  
 7; 3434.0; 04-SEP-2008 08:17:11; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;34057  
 8; 4459.7; 04-SEP-2008 08:34:17; Bright; 38.0; 24; 66Alp Gem ; 1.58; 10200;occ; 76; 0;34057  
 9; 4932.2; 04-SEP-2008 08:42:09; Dark ; 36.5; 8; 10Alp CMi ; 0.40; 6500;occ; 73; 0;34057  
 10; 5408.4; 04-SEP-2008 08:50:05; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;34057  
 11; 5491.9; 04-SEP-2008 08:51:29; Dark ; 14.0; 47; 2Bet CMA ; 1.98; 28000;occ; 28; 0;34057

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1; -530.0; 04-SEP-2008 08:51:43; Dark ; 47.0; 47; 2Bet CMA ; 1.98; 28000;occ; 94; 28;34057  
 2; -467.7; 04-SEP-2008 08:52:45; Dark ; 43.5; 23; 21Eps CMA ; 1.50; 26000;occ; 87; 0;34057  
 3; -379.4; 04-SEP-2008 08:54:13; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;34057  
 4; -258.2; 04-SEP-2008 08:56:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34057  
 5; -138.4; 04-SEP-2008 08:58:14; Dark ; 40.0; 161; Tau Pup ; 2.93; 4500;occ; 80; 0;34057  
 6; -66.9; 04-SEP-2008 08:59:26; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;34057  
 7; 556.1; 04-SEP-2008 09:09:49; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;34058  
 8; 635.7; 04-SEP-2008 09:11:08; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;34058  
 9; 991.5; 04-SEP-2008 09:17:04; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;34058  
 10; 1097.2; 04-SEP-2008 09:18:50; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;34058  
 11; 1265.8; 04-SEP-2008 09:21:39; Dark ; 37.0; 172; Gam Gru ; 3.00; 13100;occ; 74; 0;34058  
 12; 1343.6; 04-SEP-2008 09:22:56; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;34058  
 13; 1626.8; 04-SEP-2008 09:27:39; Dark ; 51.5; 142; 49Del Cap ; 2.85; 8900;occ; 103; 0;34058

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1; 1813.0; 04-SEP-2008 09:30:46; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;34058  
 2; 1895.6; 04-SEP-2008 09:32:08; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;34058  
 3; 2074.5; 04-SEP-2008 09:35:07; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;34058  
 4; 2492.3; 04-SEP-2008 09:42:05; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;34058  
 5; 2681.8; 04-SEP-2008 09:45:15; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;34058  
 6; 2972.0; 04-SEP-2008 09:50:05; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;34058  
 7; 3433.9; 04-SEP-2008 09:57:47; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;34058  
 8; 4459.8; 04-SEP-2008 10:14:53; Bright; 27.5; 24; 66Alp Gem ; 1.58; 10200;occ; 55; 0;34058

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1;-1548.5; 04-SEP-2008 10:15:20; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 55;34058  
 2;-1103.4; 04-SEP-2008 10:22:45; Dark ; 54.0; 8; 10Alp CMi ; 0.40; 6500;occ; 108; 0;34058  
 3; -626.8; 04-SEP-2008 10:30:42; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;34058  
 4; -543.2; 04-SEP-2008 10:32:05; Dark ; 43.0; 47; 2Bet CMA ; 1.98; 28000;occ; 86; 0;34058



5; -467.0; 04-SEP-2008 10:33:22; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;34058  
6; -379.0; 04-SEP-2008 10:34:50; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;34058  
7; -257.8; 04-SEP-2008 10:36:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34058  
8; -137.9; 04-SEP-2008 10:38:51; Dark ; 38.5; 161; Tau Pup ; 2.93; 4500;occ; 77; 0;34058  
9; -66.4; 04-SEP-2008 10:40:02; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;34058  
10; 556.5; 04-SEP-2008 10:50:25; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;34059  
11; 636.2; 04-SEP-2008 10:51:45; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;34059  
12; 992.1; 04-SEP-2008 10:57:41; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;34059  
13; 1097.4; 04-SEP-2008 10:59:26; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;34059  
14; 1266.0; 04-SEP-2008 11:02:15; Dark ; 37.5; 172; Gam Gru ; 3.00; 13100;occ; 75; 0;34059  
15; 1343.8; 04-SEP-2008 11:03:32; Dark ; 43.0; 18; 24Alp PsA ; 1.17; 9700;occ; 86; 0;34059  
16; 1627.0; 04-SEP-2008 11:08:16; Dark ; 40.0; 142; 49Del Cap ; 2.85; 8900;occ; 80; 0;34059

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1; 1813.0; 04-SEP-2008 11:11:22; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;34059  
2; 1895.5; 04-SEP-2008 11:12:44; Bright; 37.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 75; 0;34059  
3; 2074.6; 04-SEP-2008 11:15:43; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;34059  
4; 2492.4; 04-SEP-2008 11:22:41; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;34059  
5; 2681.9; 04-SEP-2008 11:25:50; Bright; 33.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 67; 0;34059  
6; 2971.8; 04-SEP-2008 11:30:40; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;34059  
7; 3433.9; 04-SEP-2008 11:38:22; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;34059  
8; 4459.9; 04-SEP-2008 11:55:28; Bright; 40.5; 24; 66Alp Gem ; 1.58; 10200;occ; 81; 0;34059  
9; 4932.8; 04-SEP-2008 12:03:21; Dark ; 48.5; 8; 10Alp CMi ; 0.40; 6500;occ; 97; 0;34059  
10; 5409.8; 04-SEP-2008 12:11:18; Dark ; 50.0; 1; 9Alp CMA ;-1.44; 11000;occ; 100; 0;34059  
11; 5493.5; 04-SEP-2008 12:12:42; Dark ; 43.0; 47; 2Bet CMA ; 1.98; 28000;occ; 86; 0;34059  
12; 5569.4; 04-SEP-2008 12:13:58; Dark ; 41.5; 23; 21Eps CMA ; 1.50; 26000;occ; 83; 0;34059  
13; 5657.3; 04-SEP-2008 12:15:26; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;34059  
14; 5778.4; 04-SEP-2008 12:17:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34059  
15; 5898.2; 04-SEP-2008 12:19:27; Dark ; 39.0; 161; Tau Pup ; 2.93; 4500;occ; 78; 0;34059  
16; 5969.9; 04-SEP-2008 12:20:38; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;34059  
17; 6593.0; 04-SEP-2008 12:31:02; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34059  
18; 6672.6; 04-SEP-2008 12:32:21; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;34059  
19; 7028.5; 04-SEP-2008 12:38:17; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;34059  
20; 7133.5; 04-SEP-2008 12:40:02; Dark ; 38.5; 31; Alp Gru ; 1.73; 15200;occ; 77; 0;34059  
21; 7302.3; 04-SEP-2008 12:42:51; Dark ; 36.5; 172; Gam Gru ; 3.00; 13100;occ; 73; 0;34059  
22; 7379.9; 04-SEP-2008 12:44:08; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;34059  
23; 7662.9; 04-SEP-2008 12:48:51; Dark ; 25.5; 142; 49Del Cap ; 2.85; 8900;occ; 51; 0;34059

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1; 1627.0; 04-SEP-2008 12:48:51; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;34060  
2; 1813.1; 04-SEP-2008 12:51:58; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;34060  
3; 1895.5; 04-SEP-2008 12:53:20; Bright; 38.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 77; 0;34060  
4; 2074.5; 04-SEP-2008 12:56:19; Bright; 37.0; 61; 8Eps Peg ; 2.10; 3900;occ; 74; 0;34060  
5; 2492.5; 04-SEP-2008 13:03:17; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;34060  
6; 2682.0; 04-SEP-2008 13:06:26; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;34060  
7; 2971.8; 04-SEP-2008 13:11:16; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;34060  
8; 3433.9; 04-SEP-2008 13:18:58; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;34060  
9; 4460.1; 04-SEP-2008 13:36:04; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;34060  
10; 4933.2; 04-SEP-2008 13:43:58; Dark ; 56.0; 8; 10Alp CMi ; 0.40; 6500;occ; 112; 0;34060  
11; 5410.6; 04-SEP-2008 13:51:55; Dark ; 52.0; 1; 9Alp CMA ;-1.44; 11000;occ; 104; 0;34060  
12; 5494.4; 04-SEP-2008 13:53:19; Dark ; 34.0; 47; 2Bet CMA ; 1.98; 28000;occ; 68; 0;34060  
13; 5570.0; 04-SEP-2008 13:54:34; Dark ; 41.5; 23; 21Eps CMA ; 1.50; 26000;occ; 83; 0;34060  
14; 5657.9; 04-SEP-2008 13:56:02; Dark ; 40.5; 117; Pi Pup ; 2.71; 3800;occ; 81; 0;34060  
15; 5778.9; 04-SEP-2008 13:58:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34060  
16; 5898.9; 04-SEP-2008 14:00:03; Dark ; 38.5; 161; Tau Pup ; 2.93; 4500;occ; 77; 0;34060  
17; 5970.5; 04-SEP-2008 14:01:15; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;34060  
18; 6593.6; 04-SEP-2008 14:11:38; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34060  
19; 6673.3; 04-SEP-2008 14:12:58; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;34060  
20; 7029.1; 04-SEP-2008 14:18:54; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;34060  
21; 7133.8; 04-SEP-2008 14:20:38; Dark ; 40.0; 31; Alp Gru ; 1.73; 15200;occ; 80; 0;34060  
22; 7302.4; 04-SEP-2008 14:23:27; Dark ; 38.0; 172; Gam Gru ; 3.00; 13100;occ; 76; 0;34060  
23; 7380.3; 04-SEP-2008 14:24:45; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;34060

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2; 1813.3; 04-SEP-2008 14:32:34; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;34061  
3; 1895.7; 04-SEP-2008 14:33:56; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;34061  
4; 2074.6; 04-SEP-2008 14:36:55; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;34061  
5; 2492.6; 04-SEP-2008 14:43:53; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;34061  
6; 2682.2; 04-SEP-2008 14:47:02; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;34061  
7; 2971.8; 04-SEP-2008 14:51:52; Bright; 33.0; 89; 5Alp Cep ; 2.45; 8000;occ; 66; 0;34061

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8; 3434.0; 04-SEP-2008 14:59:34; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;34061
9; 4460.3; 04-SEP-2008 15:16:41; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;34061
10; 4933.7; 04-SEP-2008 15:24:34; Dark ; 46.0; 8; 10Alp CMi ; 0.40; 6500;occ; 92; 0;34061
11; 5411.4; 04-SEP-2008 15:32:32; Dark ; 51.0; 1; 9Alp CMA ; -1.44; 11000;occ; 102; 0;34061
12; 5495.5; 04-SEP-2008 15:33:56; Dark ; 34.0; 47; 2Bet CMA ; 1.98; 28000;occ; 68; 0;34061
13; 5570.7; 04-SEP-2008 15:35:11; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;34061
14; 5658.5; 04-SEP-2008 15:36:39; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;34061
15; 5779.3; 04-SEP-2008 15:38:40; Dark ; 53.0; 0; ; 0.00; 0;occ; 106; 0;34061
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2; -136.7; 04-SEP-2008 15:40:40; Dark ; 38.5; 161; Tau Pup ; 2.93; 4500;occ; 77; 0;34061
3; -65.0; 04-SEP-2008 15:41:51; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;34061
4; 558.1; 04-SEP-2008 15:52:14; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34062
5; 637.9; 04-SEP-2008 15:53:34; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;34062
6; 993.8; 04-SEP-2008 15:59:30; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;34062
7; 1098.1; 04-SEP-2008 16:01:14; Dark ; 39.5; 31; Alp Gru ; 1.73; 15200;occ; 79; 0;34062
8; 1266.7; 04-SEP-2008 16:04:03; Dark ; 37.0; 172; Gam Gru ; 3.00; 13100;occ; 74; 0;34062
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3; -375.4; 04-SEP-2008 23:59:40; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0;34066
4; -254.6; 05-SEP-2008 00:01:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34066
5; -134.5; 05-SEP-2008 00:03:41; Dark ; 38.5; 161; Tau Pup ; 2.93; 4500;occ; 77; 0;34066
6; -62.6; 05-SEP-2008 00:04:53; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;34066
7; 560.7; 05-SEP-2008 00:15:17; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;34067
8; 640.7; 05-SEP-2008 00:16:37; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;34067
9; 996.2; 05-SEP-2008 00:22:32; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;34067
10; 1099.1; 05-SEP-2008 00:24:15; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;34067
11; 1267.7; 05-SEP-2008 00:27:04; Dark ; 37.0; 172; Gam Gru ; 3.00; 13100;occ; 74; 0;34067
12; 1345.8; 05-SEP-2008 00:28:22; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;34067
13; 1627.8; 05-SEP-2008 00:33:04; Dark ; 40.5; 142; 49Del Cap ; 2.85; 8900;occ; 81; 0;34067
14; 1813.8; 05-SEP-2008 00:36:10; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;34067
15; 1895.4; 05-SEP-2008 00:37:31; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;34067
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14; 3019.8; 16-SEP-2008 21:58:04; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34237
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7; 45.5; 18-SEP-2008 04:59:52; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;34256
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13; 2505.7; 19-SEP-2008 03:28:40; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;34269
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11; 2392.4; 22-SEP-2008 23:39:43; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34324
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8; 769.3; 22-SEP-2008 08:07:16; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;34315
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6; -97.4; 25-SEP-2008 06:17:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34356
7; 30.5; 25-SEP-2008 06:20:07; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;34357
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6; 5105.3; 26-SEP-2008 08:53:41; Dark ; 28.0; 8; 10Alp CMi ; 0.40; 6500;occ; 56; 0;34372
7; 5539.0; 26-SEP-2008 09:00:54; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;34372
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9; 5832.8; 26-SEP-2008 09:05:48; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;34372
10; 5949.5; 26-SEP-2008 09:07:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34372
11; 6077.5; 26-SEP-2008 09:09:53; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;34372
12; 6903.2; 26-SEP-2008 09:23:39; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;34372
13; 7158.8; 26-SEP-2008 09:27:54; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;34372
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3; 2969.2; 26-SEP-2008 09:58:40; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;34373
4; 3058.1; 26-SEP-2008 10:00:09; Bright; 56.5; 76; 27Gam Cas ; 2.30; 30000;occ; 113; 0;34373
5; 4585.7; 26-SEP-2008 10:25:37; Bright; 53.0; 17; 78Bet Gem ; 1.16; 4500;occ; 106; 0;34373
6; 5106.2; 26-SEP-2008 10:34:17; Dark ; 28.0; 8; 10Alp CMi ; 0.40; 6500;occ; 56; 0;34373
7; 5539.7; 26-SEP-2008 10:41:31; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;34373
8; 5741.9; 26-SEP-2008 10:44:53; Dark ; 47.5; 88; 31Eta CMA ; 2.45; 20000;occ; 95; 0;34373
9; 5833.8; 26-SEP-2008 10:46:25; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;34373
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12; 6903.8; 26-SEP-2008 11:04:15; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;34373
13; 7159.1; 26-SEP-2008 11:08:30; Dark ; 39.5; 84; Alp Phe ; 2.40; 4500;occ; 79; 0;34373
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3; 2968.8; 26-SEP-2008 11:39:16; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;34374
4; 3057.6; 26-SEP-2008 11:40:45; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;34374

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6; 5540.4; 26-SEP-2008 12:22:08; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;34374
7; 5742.9; 26-SEP-2008 12:25:30; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;34374
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3; 2968.6; 26-SEP-2008 13:19:52; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34375
4; 3057.2; 26-SEP-2008 13:21:20; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34375
5; 4586.1; 26-SEP-2008 13:46:49; Bright; 53.5; 17; 78Bet Gem ; 1.16; 4500;occ; 107; 0;34375
6; 5541.2; 26-SEP-2008 14:02:44; Dark ; 43.5; 132; 15Rho Pup ; 2.80; 6900;occ; 87; 0;34375
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8; 5836.1; 26-SEP-2008 14:07:39; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;34375
9; 5951.5; 26-SEP-2008 14:09:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34375
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11; 6905.6; 26-SEP-2008 14:25:29; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;34375
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3; 2387.9; 26-SEP-2008 14:50:47; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34376
4; 2968.3; 26-SEP-2008 15:00:27; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;34376
5; 3056.8; 26-SEP-2008 15:01:56; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34376
6; 4586.4; 26-SEP-2008 15:27:25; Bright; 52.5; 17; 78Bet Gem ; 1.16; 4500;occ; 105; 0;34376
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4; 2387.8; 26-SEP-2008 16:31:23; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34377
5; 2968.0; 26-SEP-2008 16:41:03; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34377
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7; 4586.5; 26-SEP-2008 17:08:01; Bright; 53.5; 17; 78Bet Gem ; 1.16; 4500;occ; 107; 0;34377
8; 5542.6; 26-SEP-2008 17:23:58; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;34377
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4; 2387.7; 26-SEP-2008 18:11:59; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;34378
5; 2967.6; 26-SEP-2008 18:21:39; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34378
6; 3055.8; 26-SEP-2008 18:23:07; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34378
7; 4586.8; 26-SEP-2008 18:48:38; Bright; 55.0; 17; 78Bet Gem ; 1.16; 4500;occ; 110; 0;34378
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9; 5746.6; 26-SEP-2008 19:07:58; Dark ; 45.0; 88; 31Eta CMA ; 2.45; 20000;occ; 90; 0;34378
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3; 2166.5; 27-SEP-2008 20:57:52; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34394
4; 2386.9; 27-SEP-2008 21:01:33; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34394
5; 2962.8; 27-SEP-2008 21:11:09; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;34394

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7; 3429.1; 27-SEP-2008 21:18:55; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;34394
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4; 1586.4; 27-SEP-2008 07:23:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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4; 2053.1; 27-SEP-2008 07:31:11; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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7; 2869.5; 27-SEP-2008 07:44:48; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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19; 6306.2; 27-SEP-2008 08:42:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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3; 1947.4; 27-SEP-2008 09:10:02; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
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7; 2870.4; 27-SEP-2008 09:25:25; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
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13; 4278.7; 27-SEP-2008 09:48:53; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
14; 4732.6; 27-SEP-2008 09:56:27; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
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17; 5500.5; 27-SEP-2008 10:09:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
18; 5813.8; 27-SEP-2008 10:14:28; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;34387
19; 6784.3; 27-SEP-2008 10:30:39; Dark ; 105.0; 9; Alp Eri ; 0.45; 24000;occ; 210; 0;34387
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3; 2909.5; 27-SEP-2008 11:06:40; Bright; 98.5; 68; 18Alp Cas ; 2.22; 4500;occ; 197; 0;34388
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6; 4527.3; 27-SEP-2008 11:33:38; Bright; 85.5; 166; 17Eps Leo ; 2.98; 6000;occ; 171; 0;34388
7; 5092.7; 27-SEP-2008 11:43:03; Dark ; 99.0; 48; 30Alp Hya ; 1.98; 4100;occ; 198; 0;34388
8; 5492.8; 27-SEP-2008 11:49:43; Dark ; 100.0; 132; 15Rho Pup ; 2.80; 6900;occ; 200; 0;34388
9; 5674.5; 27-SEP-2008 11:52:45; Dark ; 97.5; 65; Lam Vel ; 2.20; 4400;occ; 195; 0;34388

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1; 1141.7; 30-SEP-2008 19:05:57; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;34436
2; 1557.7; 30-SEP-2008 19:12:53; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;34436
3; 2167.9; 30-SEP-2008 19:23:03; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34436
4; 2386.2; 30-SEP-2008 19:26:41; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;34436
5; 2951.2; 30-SEP-2008 19:36:06; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;34436
6; 3031.7; 30-SEP-2008 19:37:27; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34436
7; 3428.6; 30-SEP-2008 19:44:04; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;34436
8; 3905.7; 30-SEP-2008 19:52:01; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;34436
9; 3995.8; 30-SEP-2008 19:53:31; Bright; 35.5; 82; 48Bet UMA ; 2.37; 10600;occ; 71; 0;34436
10; 4588.0; 30-SEP-2008 20:03:23; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;34436
11; 5161.9; 30-SEP-2008 20:12:57; Dark ; 49.5; 48; 30Alp Hya ; 1.98; 4100;occ; 99; 0;34436
12; 5742.5; 30-SEP-2008 20:22:38; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;34436
13; 5898.1; 30-SEP-2008 20:25:13; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;34436
14; 5995.4; 30-SEP-2008 20:26:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34436
15; 6123.8; 30-SEP-2008 20:28:59; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;34436
16; 6208.1; 30-SEP-2008 20:30:23; Dark ; 57.5; 2; Alp Car ; -0.74; 7000;occ; 115; 0;34436
17; 6768.6; 30-SEP-2008 20:39:44; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;34436
18; 6856.3; 30-SEP-2008 20:41:11; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;34436

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