

# GOMOS Daily Report 03-AUG-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	05AUG2008 10:31:49
Data source version	GOMOS/5.00
Start time of products	03-08-2008 (03AUG2008 00:00:00)
Stop time of products	04-08-2008 (04AUG2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	33
Nb of prods with errors	0

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

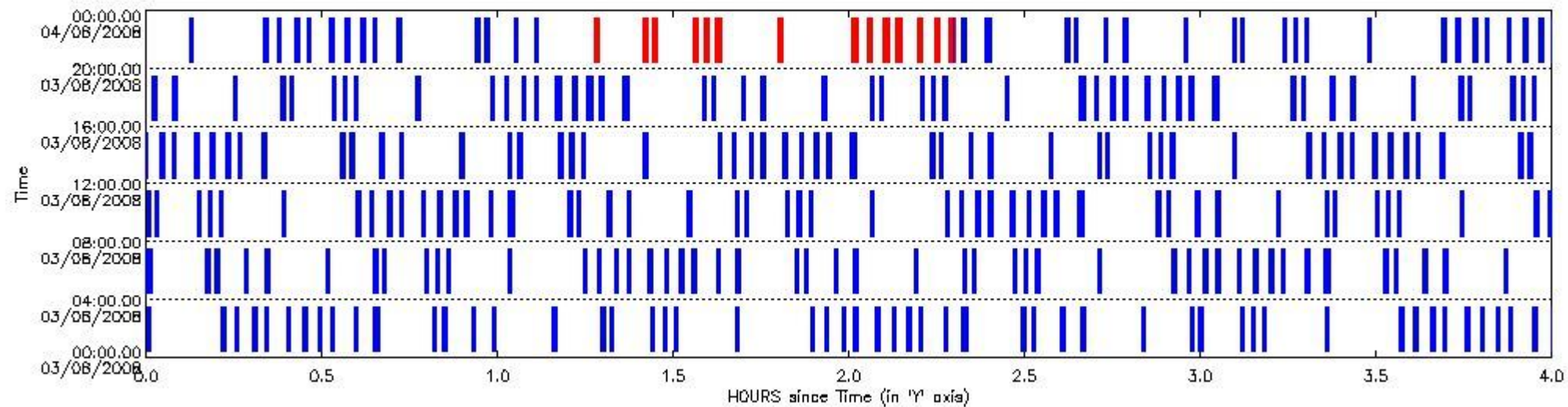
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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).



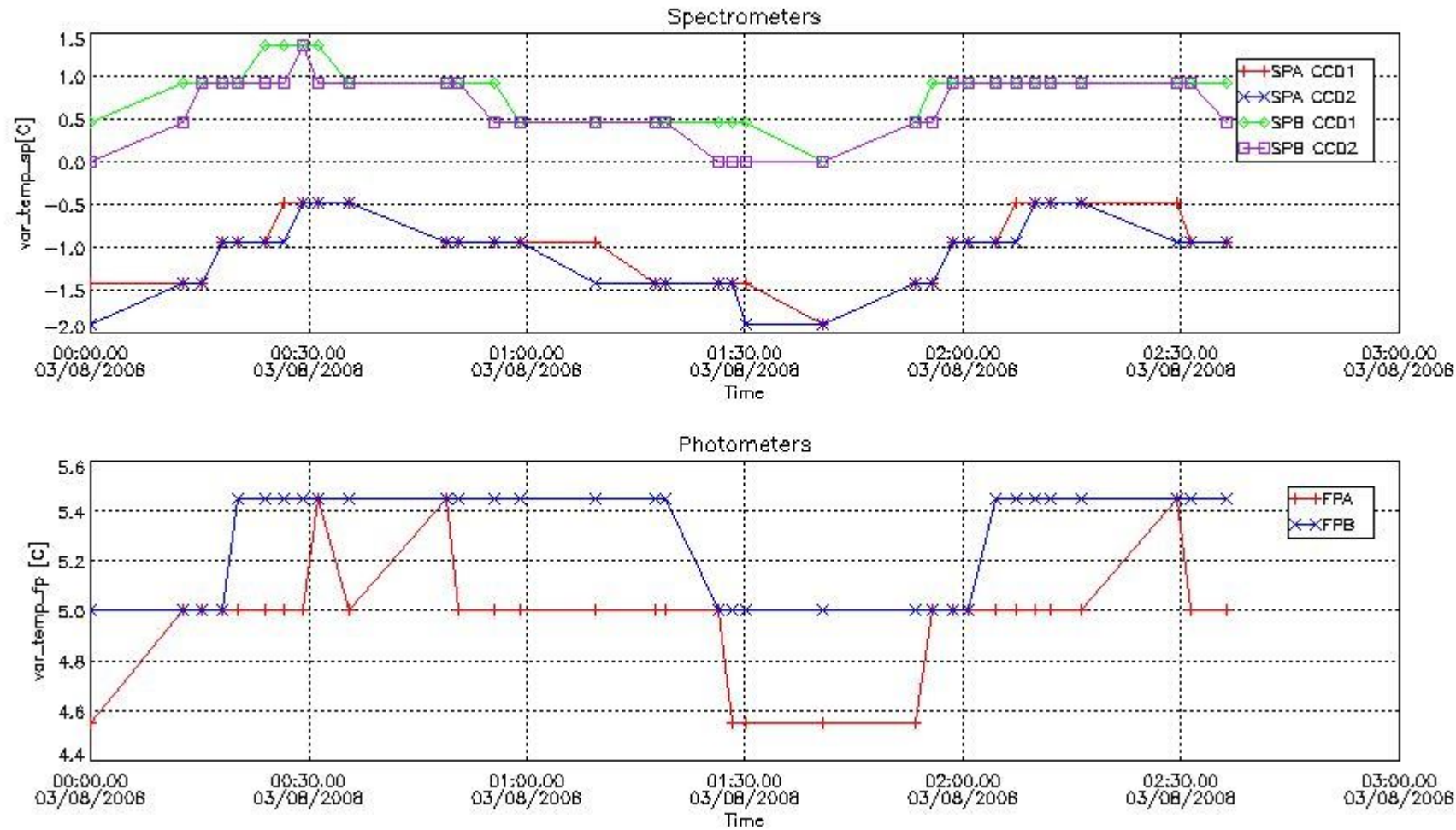
### 2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
03-AUG-2008 21:16:33	41PiSgr	155	33607
03-AUG-2008 21:24:47	53AlpAql	11	33607
03-AUG-2008 21:26:18	17ZetAql	168	33607
03-AUG-2008 21:33:24	3AlpLyr	5	33607
03-AUG-2008 21:35:16	18DelCyg	144	33607
03-AUG-2008 21:37:15	33GamDra	69	33607
03-AUG-2008 21:47:50	1AlpUMi	49	33607
03-AUG-2008 22:00:31	13AlpAur	6	33607
03-AUG-2008 22:03:01	37TheAur	107	33607
03-AUG-2008 22:05:52	12BetTau	28	33607
03-AUG-2008 22:07:59	23ZetTau	176	33607
03-AUG-2008 22:11:42	58AlpOri	14	33607
03-AUG-2008 22:14:31	46EpsOri	30	33607
03-AUG-2008 22:17:04	19BetOri	7	33607

## 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_1PNPDE20080803_000006_000000342070_00474_33594_2521.N1	03-AUG-2008 00:00:06	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	33594	No
2	GOM_TRA_1PNPDE20080803_001247_000000422070_00474_33594_4176.N1	03-AUG-2008 00:12:47	Bright	42.000	6	13Alp Aur	0.080000	3400.0	84	33594	No
3	GOM_TRA_1PNPDE20080803_001516_000000342070_00474_33594_4177.N1	03-AUG-2008 00:15:16	Bright	34.000	107	37The Aur	2.6490	11000.	68	33594	No
4	GOM_TRA_1PNPDE20080803_001806_000000462070_00474_33594_4178.N1	03-AUG-2008 00:18:06	Bright	46.000	28	12Bet Tau	1.6500	15200.	92	33594	No
5	GOM_TRA_1PNPDE20080803_002012_000000412070_00474_33594_4179.N1	03-AUG-2008 00:20:12	Twilight	41.000	176	23Zet Tau	3.0200	22000.	82	33594	No
6	GOM_TRA_1PNPDE20080803_002353_000000402070_00474_33594_4180.N1	03-AUG-2008 00:23:53	Dark	39.500	14	58Alp Ori	0.87000	3000.0	79	33594	No
7	GOM_TRA_1PNPDE20080803_002642_000000412070_00474_33594_4181.N1	03-AUG-2008 00:26:42	Dark	40.500	30	46Eps Ori	1.6940	30000.	81	33594	No
8	GOM_TRA_1PNPDE20080803_002913_000000462070_00474_33594_4182.N1	03-AUG-2008 00:29:13	Dark	45.500	7	19Bet Ori	0.10000	14000.	91	33594	No
9	GOM_TRA_1PNPDE20080803_003122_000000422070_00474_33594_2646.N1	03-AUG-2008 00:31:22	Dark	41.500	101	11Alp Lep	2.5820	7000.0	83	33594	No
10	GOM_TRA_1PNPDE20080803_003532_000000392070_00474_33594_2647.N1	03-AUG-2008 00:35:32	Dark	39.000	108	Alp Col	2.6520	15200.	78	33594	No
11	GOM_TRA_1PNPDE20080803_004851_000000422070_00475_33595_2648.N1	03-AUG-2008 00:48:51	Dark	42.000	9	Alp Eri	0.45300	24000.	84	33595	No
12	GOM_TRA_1PNPDE20080803_005035_000000372070_00475_33595_2649.N1	03-AUG-2008 00:50:35	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	33595	No
13	GOM_TRA_1PNPDE20080803_005534_000000422070_00475_33595_2650.N1	03-AUG-2008 00:55:34	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	33595	No
14	GOM_TRA_1PNPDE20080803_005857_000000462070_00475_33595_2651.N1	03-AUG-2008 00:58:57	Straylight	45.500	31	Alp Gru	1.7340	15200.	91	33595	No
15	GOM_TRA_1PNPDE20080803_010923_000000372070_00475_33595_2652.N1	03-AUG-2008 01:09:23	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	33595	No
16	GOM_TRA_1PNPDE20080803_011739_000000372070_00475_33595_2653.N1	03-AUG-2008 01:17:39	Bright	37.000	11	53Alp Aql	0.76500	8000.0	74	33595	No
17	GOM_TRA_1PNPDE20080803_011909_000000352070_00475_33595_2654.N1	03-AUG-2008 01:19:09	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	33595	No
18	GOM_TRA_1PNPDE20080803_012614_000000352070_00475_33595_2655.N1	03-AUG-2008 01:26:14	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	33595	No
19	GOM_TRA_1PNPDE20080803_012810_000000382070_00475_33595_2656.N1	03-AUG-2008 01:28:10	Bright	37.500	144	18Del Cyg	2.8600	11000.	75	33595	No
20	GOM_TRA_1PNPDE20080803_013004_000000382070_00475_33595_2657.N1	03-AUG-2008 01:30:04	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	33595	No
21	GOM_TRA_1PNPDE20080803_014042_000000332070_00475_33595_2658.N1	03-AUG-2008 01:40:42	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	33595	No
22	GOM_TRA_1PNPDE20080803_015322_000000432070_00475_33595_2659.N1	03-AUG-2008 01:53:22	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	33595	No
23	GOM_TRA_1PNPDE20080803_015552_000000352070_00475_33595_2660.N1	03-AUG-2008 01:55:52	Bright	35.000	107	37The Aur	2.6490	11000.	70	33595	No
24	GOM_TRA_1PNPDE20080803_015842_000000452070_00475_33595_2661.N1	03-AUG-2008 01:58:42	Bright	44.500	28	12Bet Tau	1.6500	15200.	89	33595	No
25	GOM_TRA_1PNPDE20080803_020048_000000412070_00475_33595_2662.N1	03-AUG-2008 02:00:48	Twilight	41.000	176	23Zet Tau	3.0200	22000.	82	33595	No
26	GOM_TRA_1PNPDE20080803_020430_000000412070_00475_33595_2663.N1	03-AUG-2008 02:04:30	Dark	41.000	14	58Alp Ori	0.87000	3000.0	82	33595	No
27	GOM_TRA_1PNPDE20080803_020718_000000412070_00475_33595_2664.N1	03-AUG-2008 02:07:18	Dark	41.000	30	46Eps Ori	1.6940	30000.	82	33595	No
28	GOM_TRA_1PNPDE20080803_020950_000000512070_00475_33595_3632.N1	03-AUG-2008 02:09:50	Dark	51.000	7	19Bet Ori	0.10000	14000.	102	33595	No
29	GOM_TRA_1PNPDE20080803_021158_000000382070_00475_33595_2846.N1	03-AUG-2008 02:11:58	Dark	38.000	101	11Alp Lep	2.5820	7000.0	76	33595	No
30	GOM_TRA_1PNPDE20080803_021608_000000412070_00475_33595_3634.N1	03-AUG-2008 02:16:08	Dark	40.500	108	Alp Col	2.6520	15200.	81	33595	No
31	GOM_TRA_1PNPDE20080803_022927_000000442070_00476_33596_3635.N1	03-AUG-2008 02:29:27	Dark	43.500	9	Alp Eri	0.45300	24000.	87	33596	No
32	GOM_TRA_1PNPDE20080803_023112_000000382070_00476_33596_3636.N1	03-AUG-2008 02:31:12	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	33596	No
33	GOM_TRA_1PNPDE20080803_023610_000000472070_00476_33596_3637.N1	03-AUG-2008 02:36:10	Straylight	47.000	148	Alp Tuc	2.8780	4100.0	94	33596	No

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



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

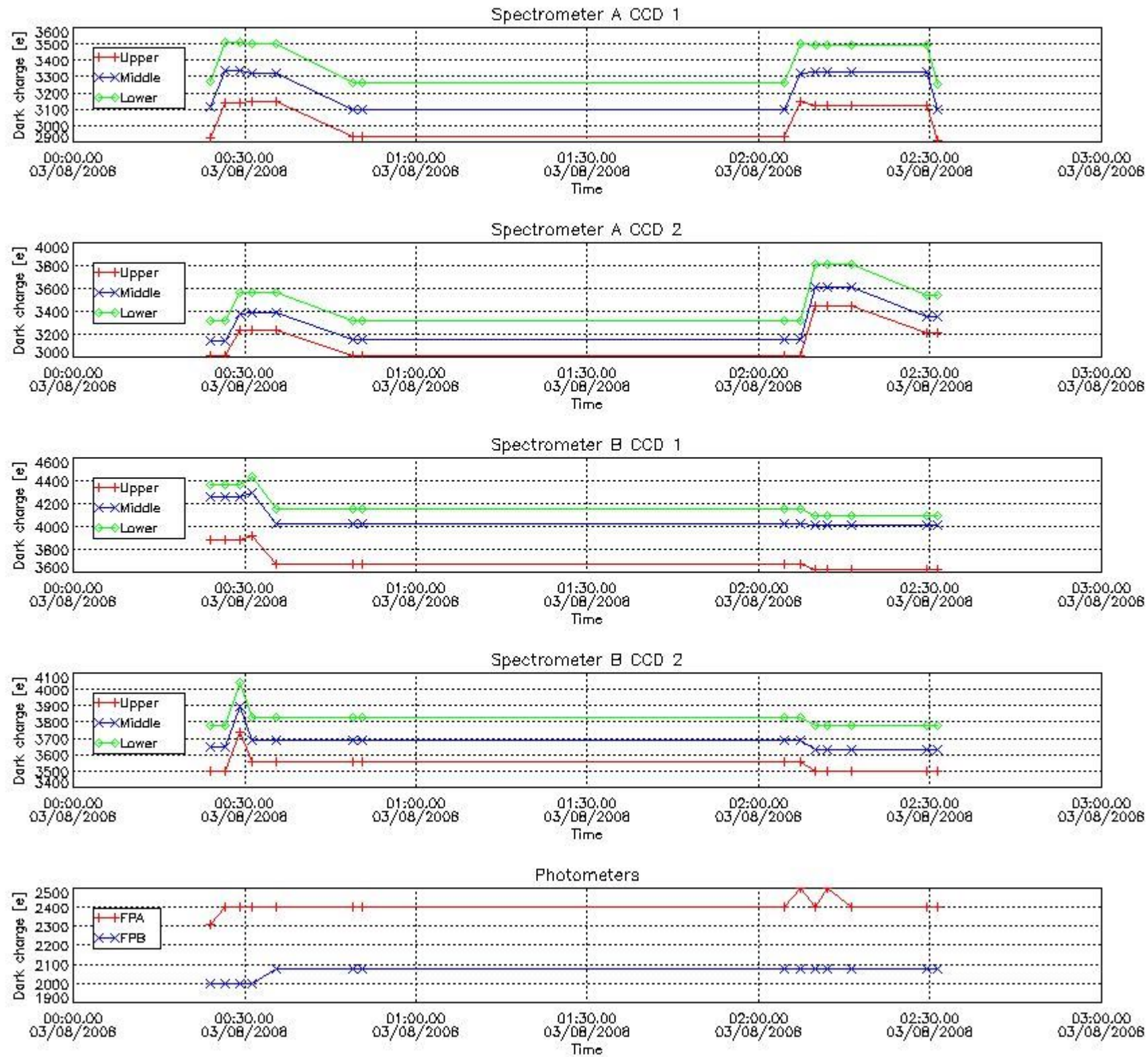
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





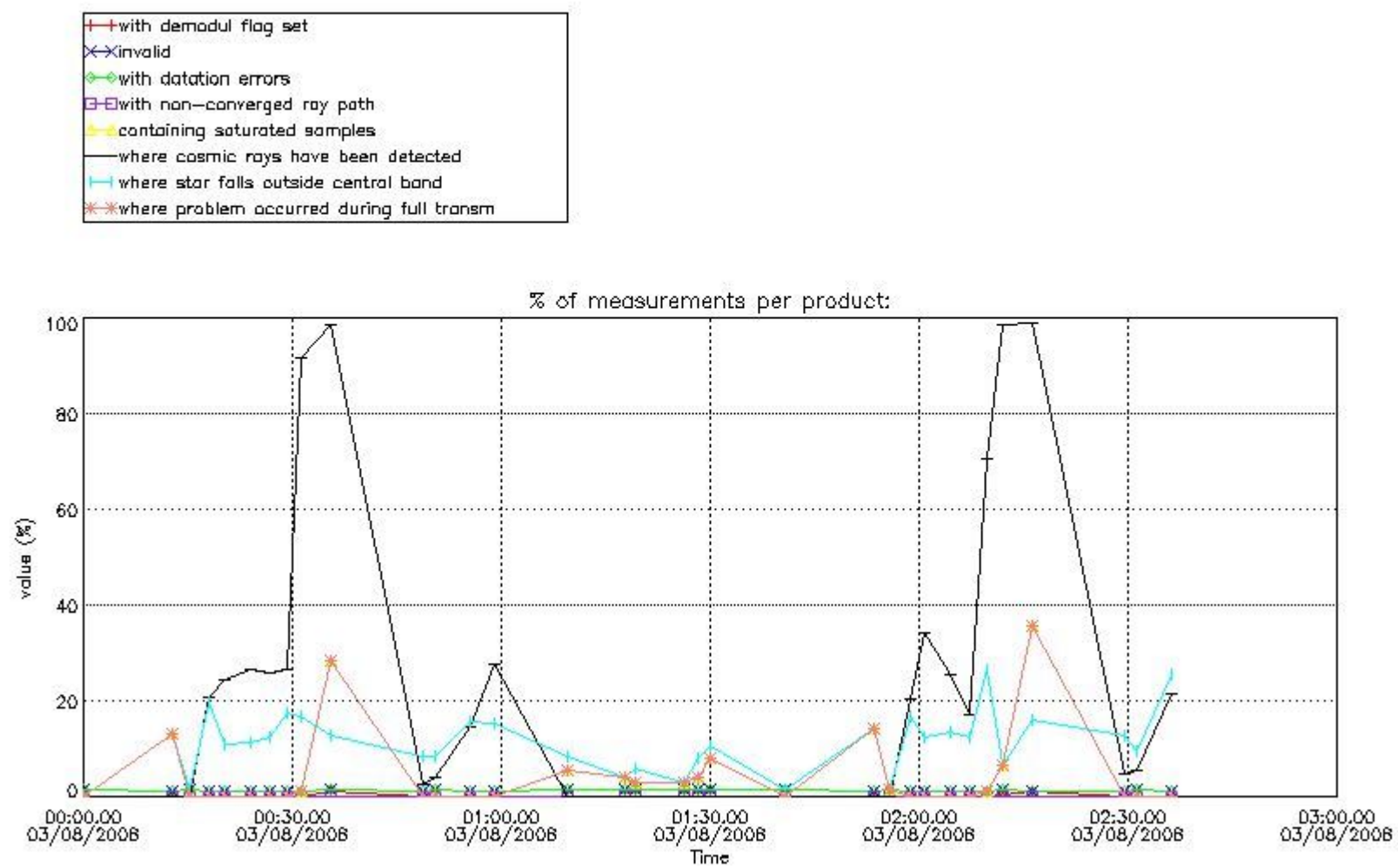
## 5. Demodulation flag and quality information monitoring

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.

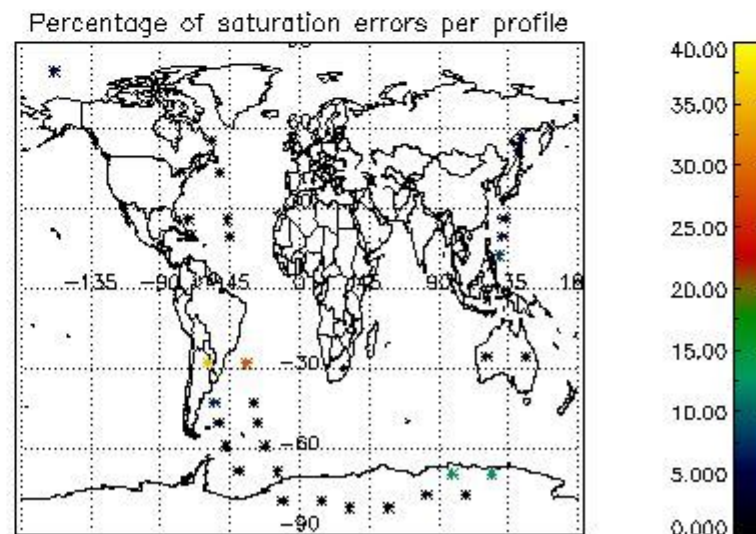
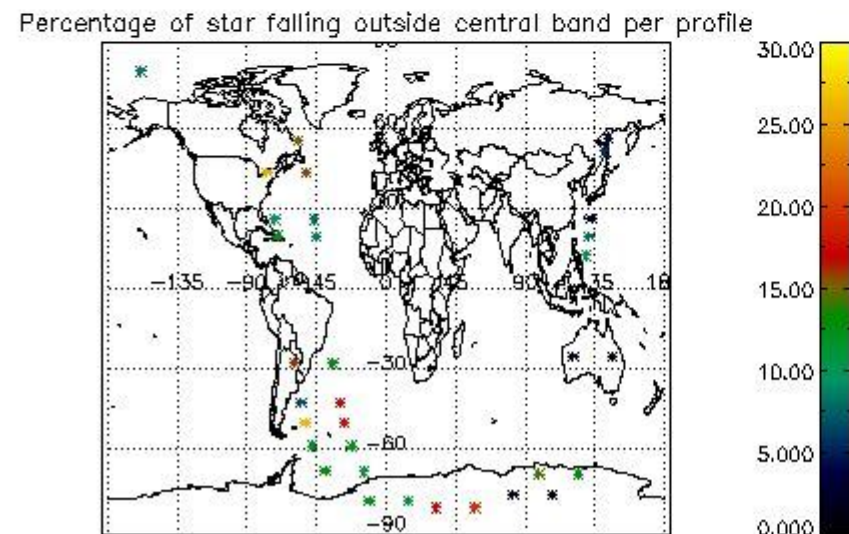
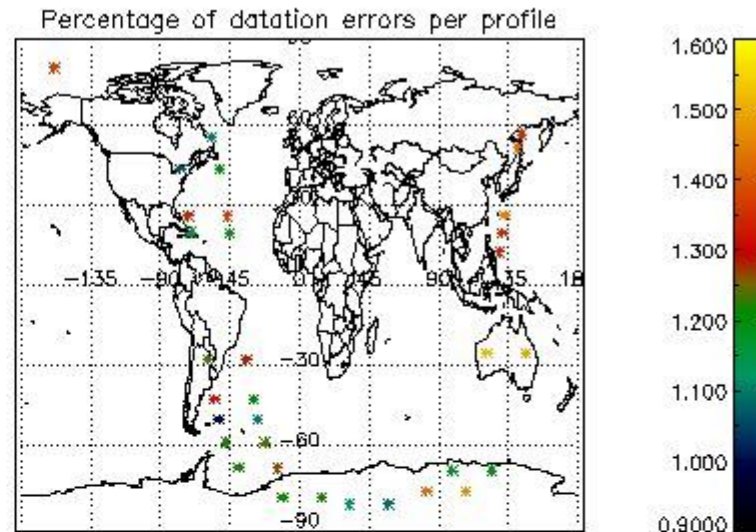
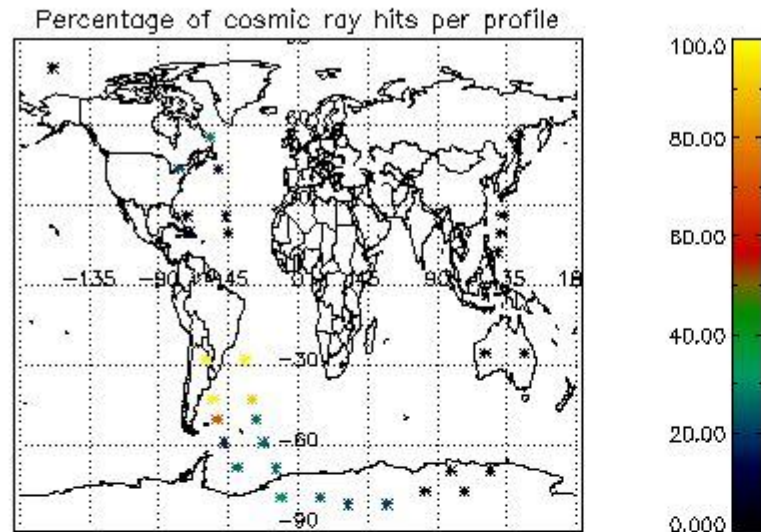
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	21.2121 %
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)

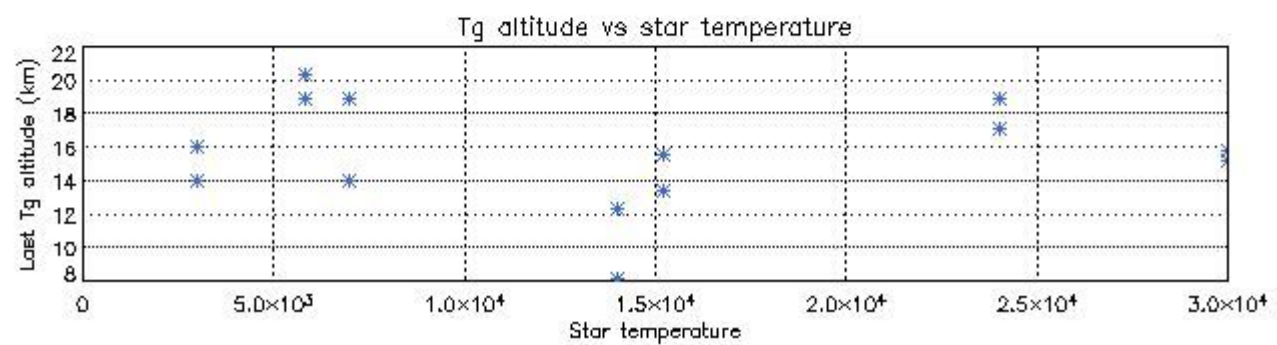
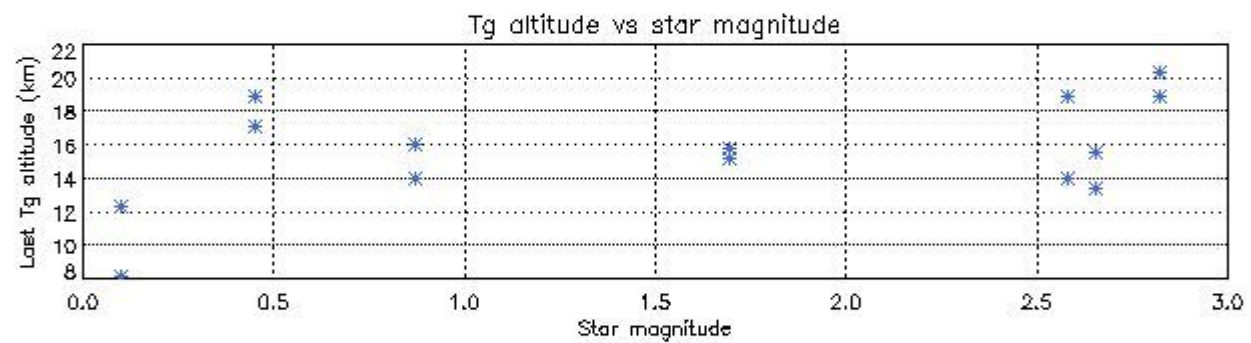
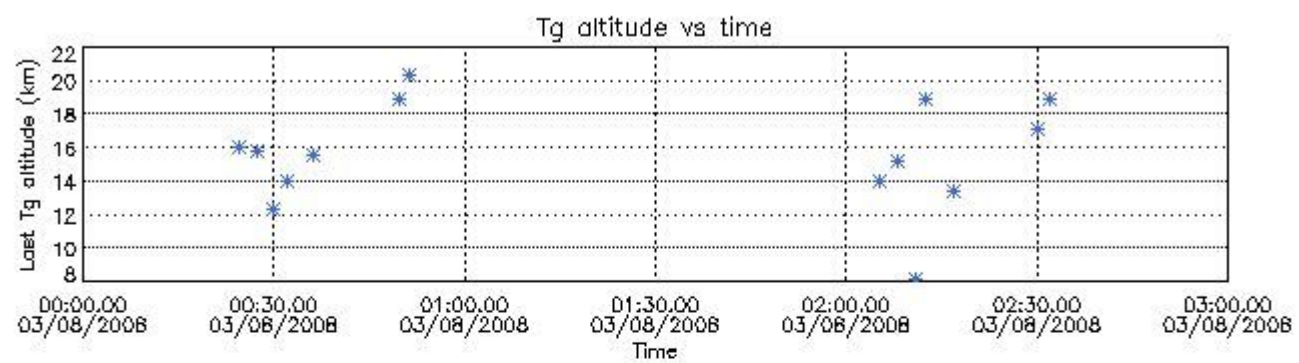
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.602	20.134	NaN
St. deviation:	3.2010	5.1329	NaN
Maximum:	20.285	27.314	NaN
Minimum:	8.1607	11.154	NaN
Number of data:	14.000	14.000	NaN

### 6.2 Plot for DARK limb products



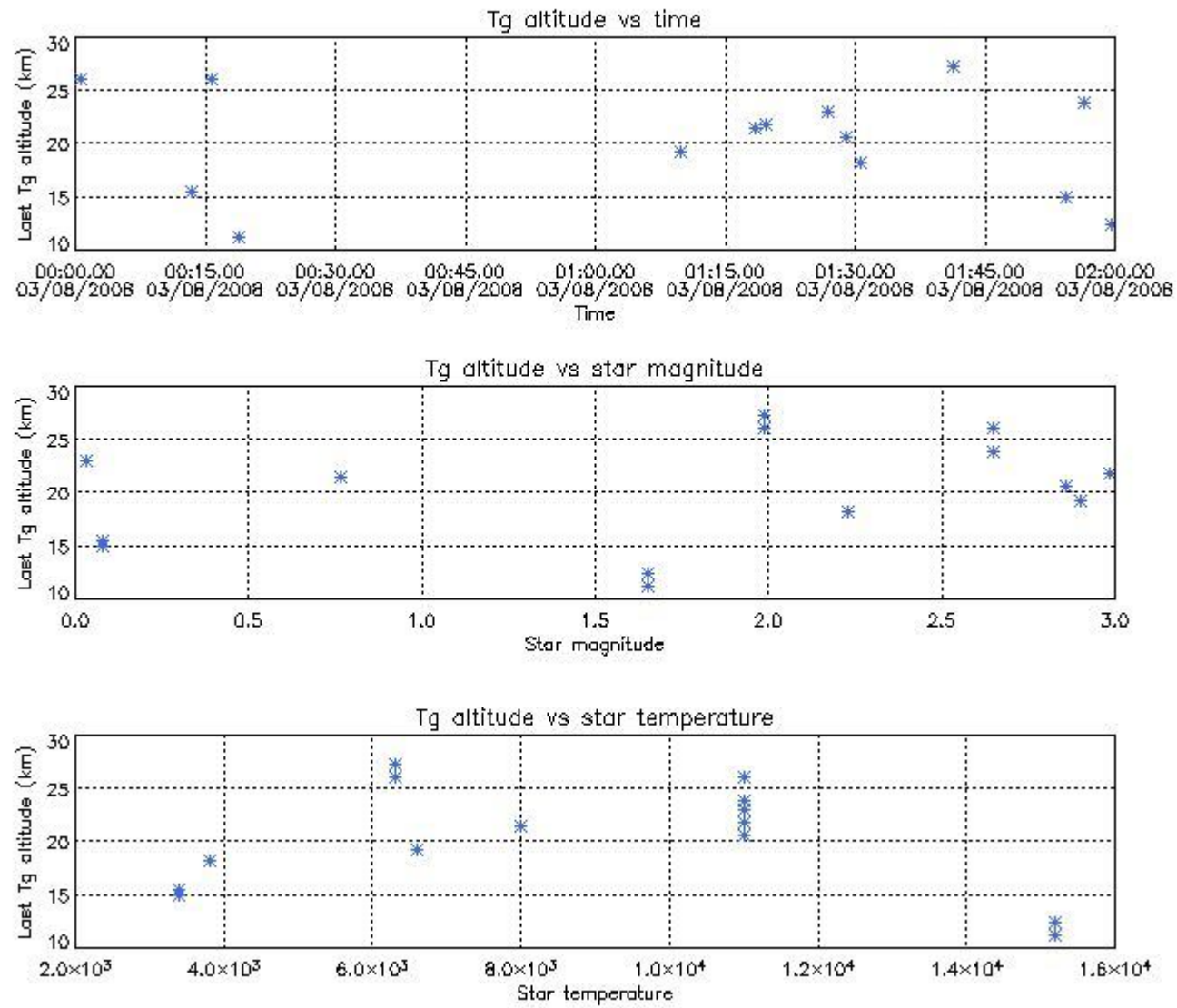
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

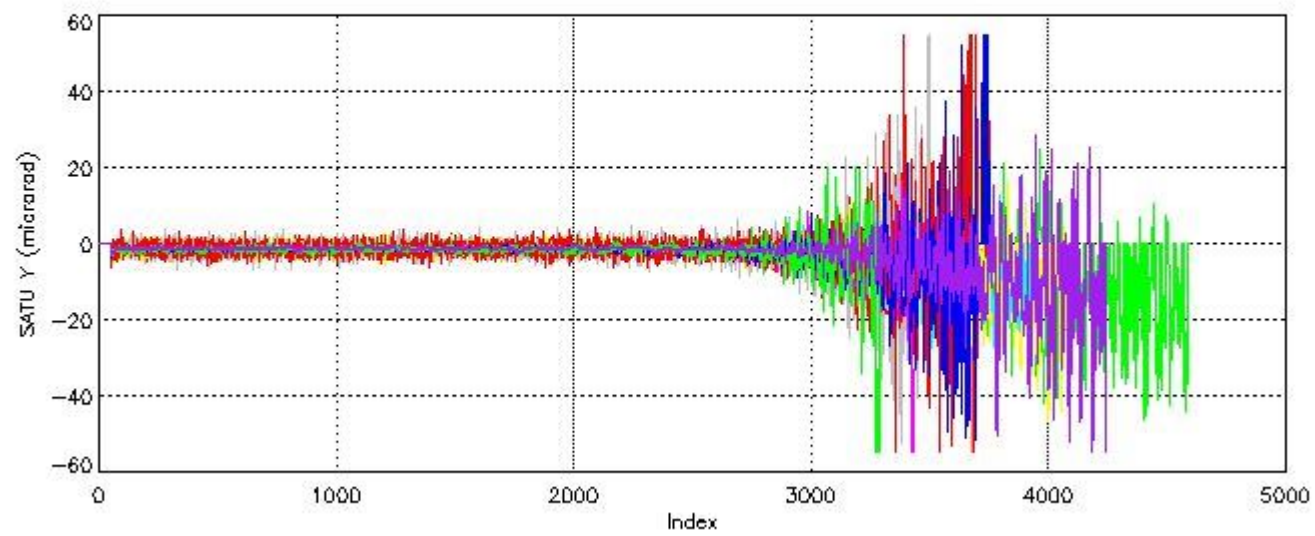
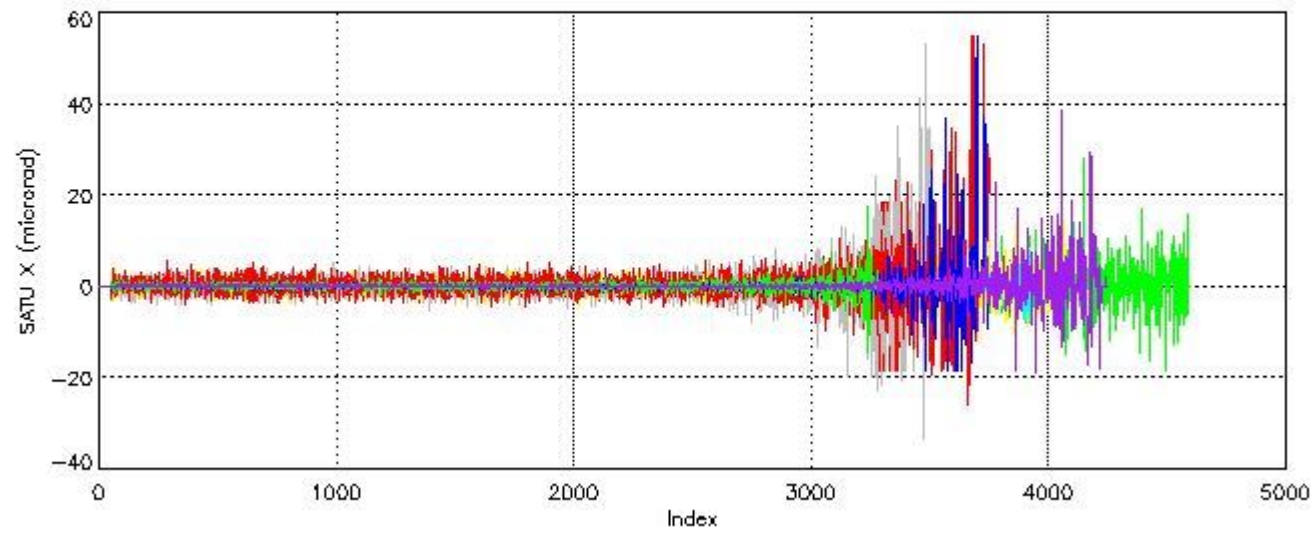


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.040152	-1.3414	0.040380	-1.3741
St. deviation:	0.53835	0.68672	0.66127	0.79579
Maximum:	9.1000	13.400	5.8000	3.9000
Minimum:	-16.500	-31.700	-4.2000	-7.0000

Number of data:	12550.	12550.	11850.	11850.
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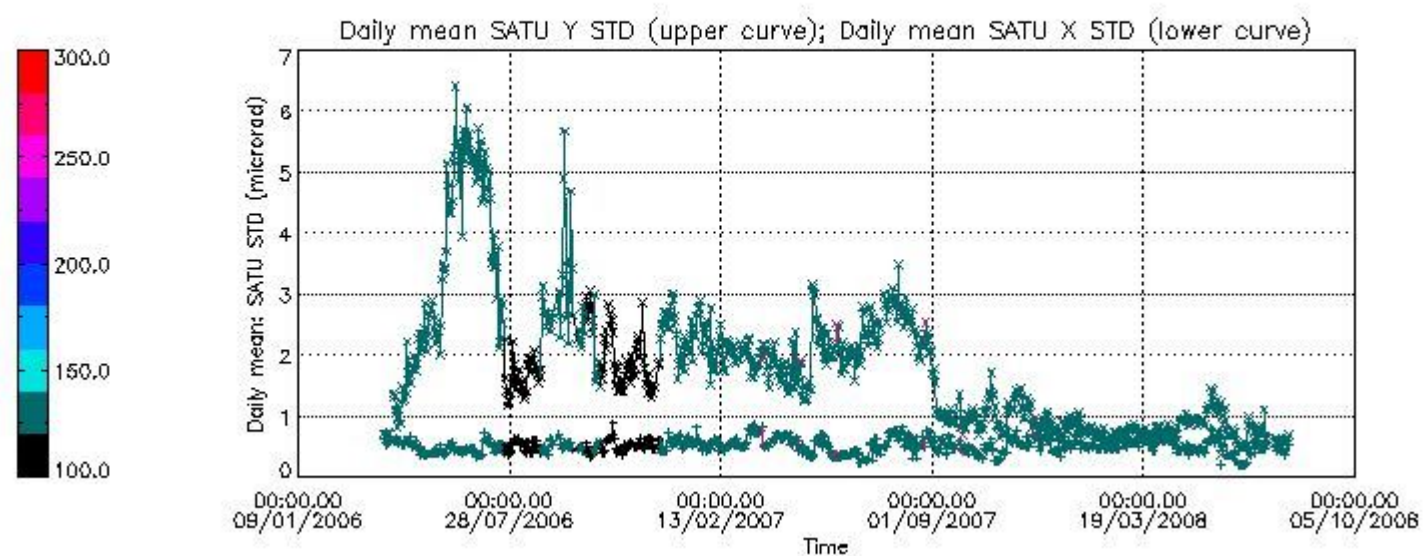
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

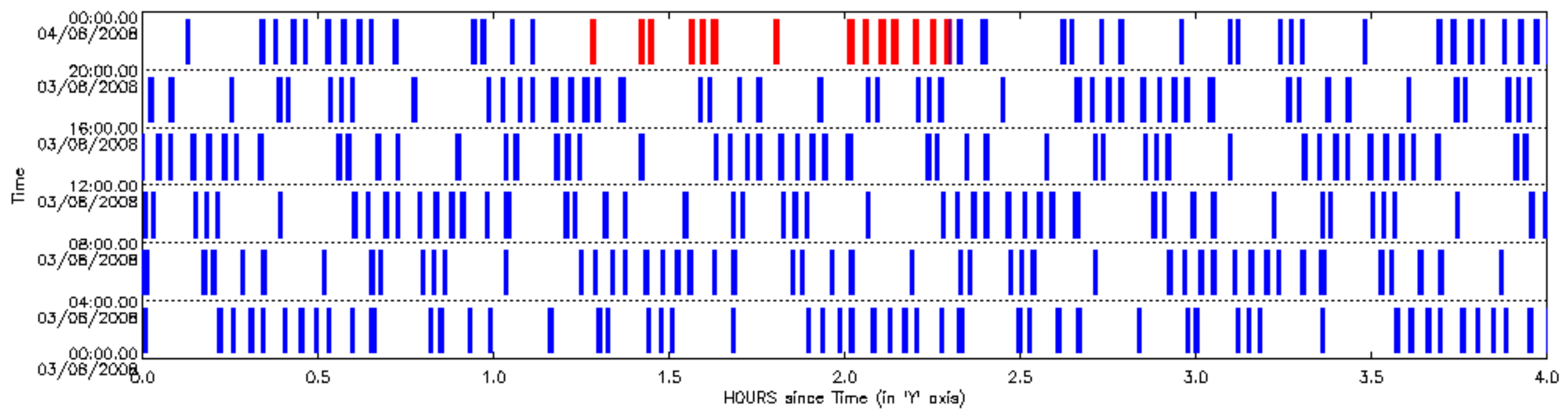
Lower curve: STD of SATU X axis



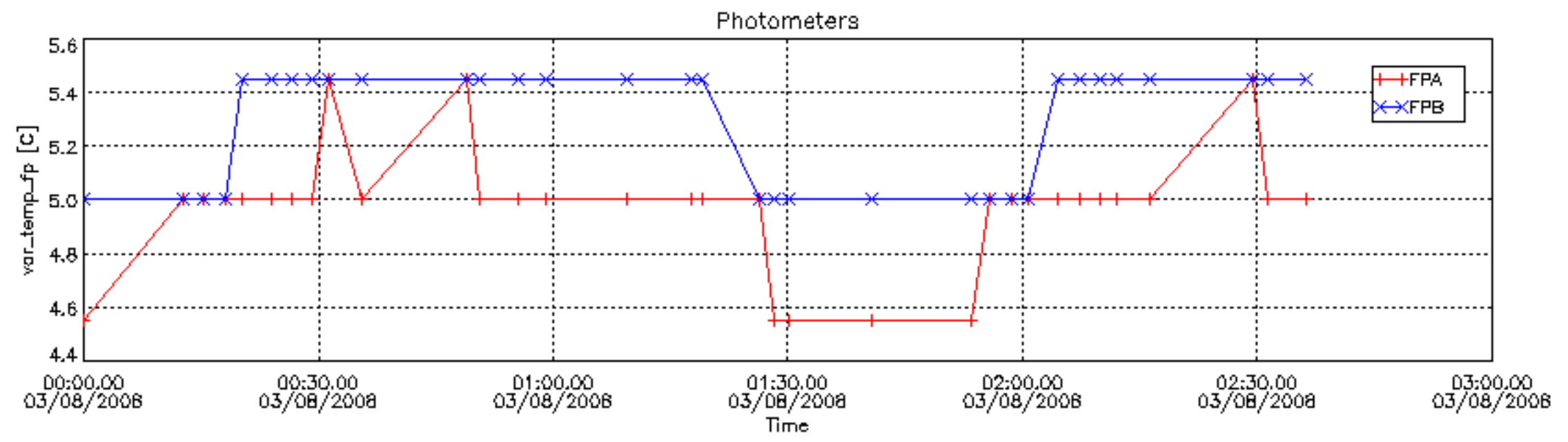
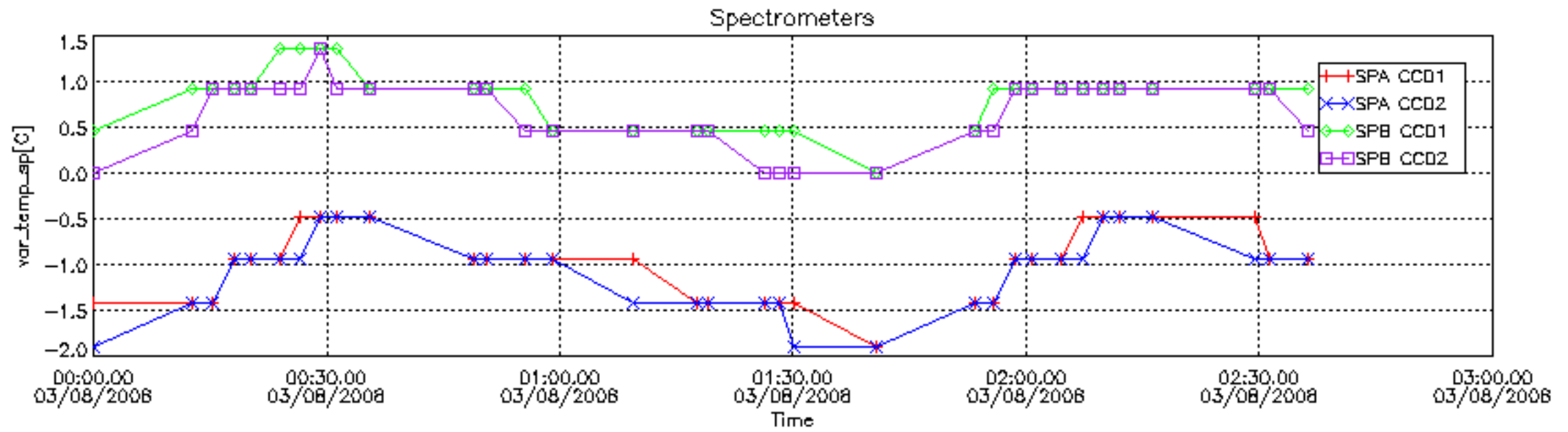
### 8. Auxiliary Data Files used for the production reported in section 2.4

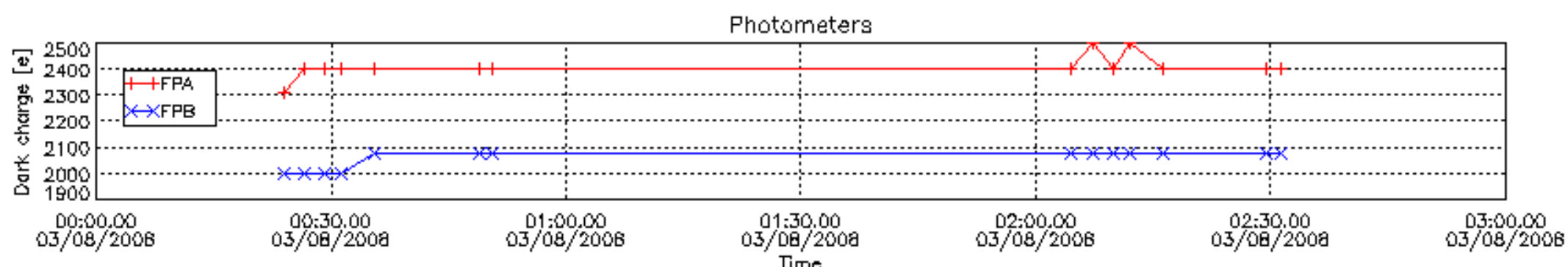
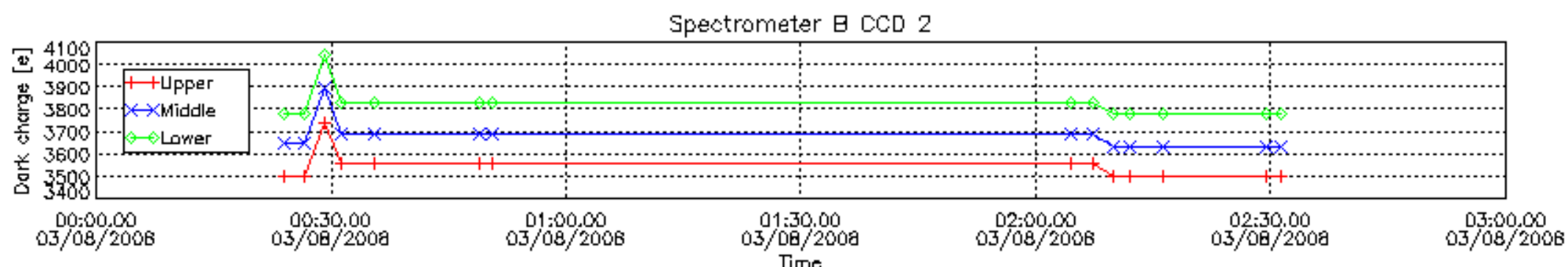
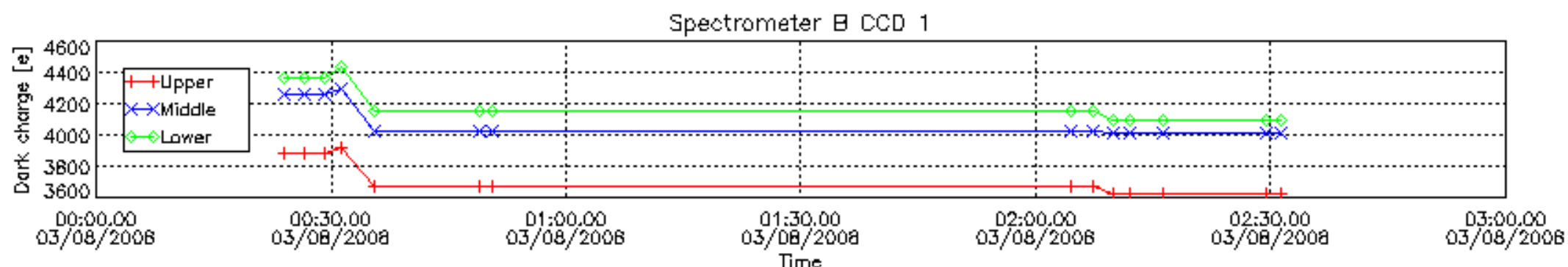
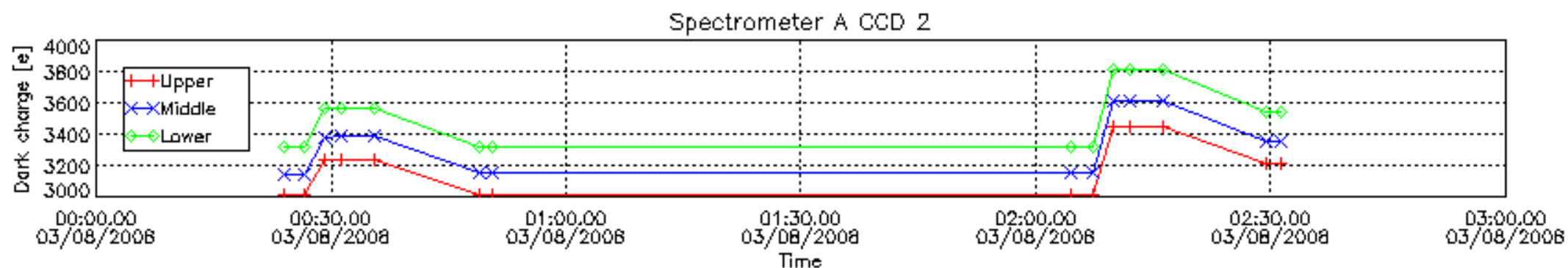
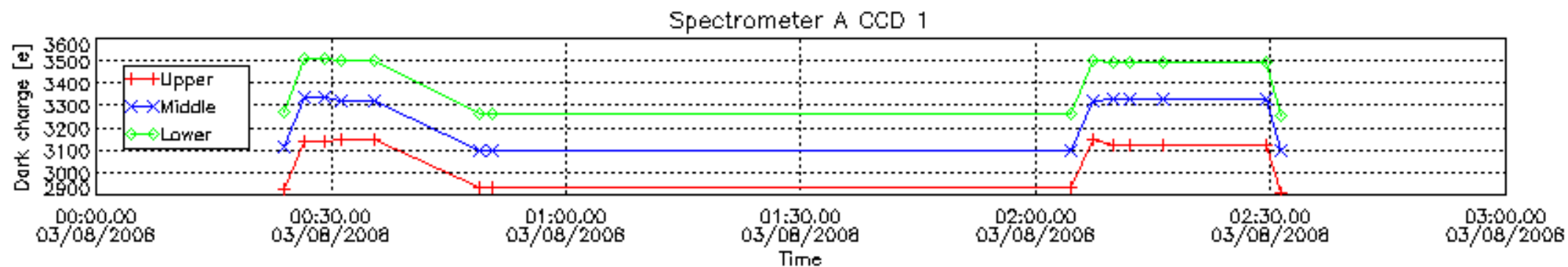
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

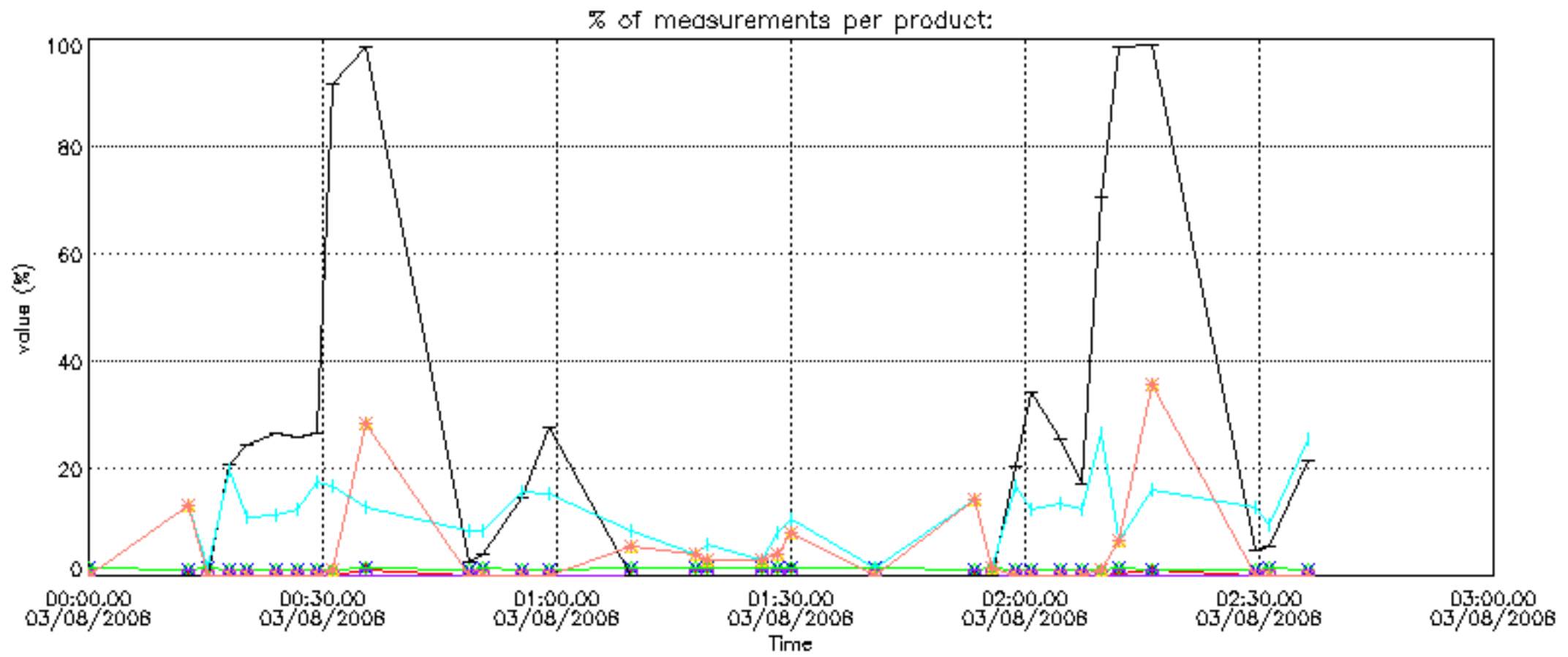
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	03-AUG-2008 00:00:06
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080801_080250_20080730_000000_20100101_000000	1	03-AUG-2008 00:00:06
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	03-AUG-2008 00:00:06
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-AUG-2008 00:00:06
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	03-AUG-2008 00:00:06
ECMWF_FILE	AUX_ECF_AXNECM20080802_072113_20080802_210000_20080803_090000	1	03-AUG-2008 00:00:06
OPTIONAL_ECMWF_FILE	MISSING	1	03-AUG-2008 00:00:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080802_210152_000060572070_00472_33592_6076.N1	1	03-AUG-2008 00:00:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080802_224808_000057382070_00473_33593_6077.N1	2	03-AUG-2008 00:12:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080803_020443_000044632070_00475_33595_6079.N1	28	03-AUG-2008 02:09:50



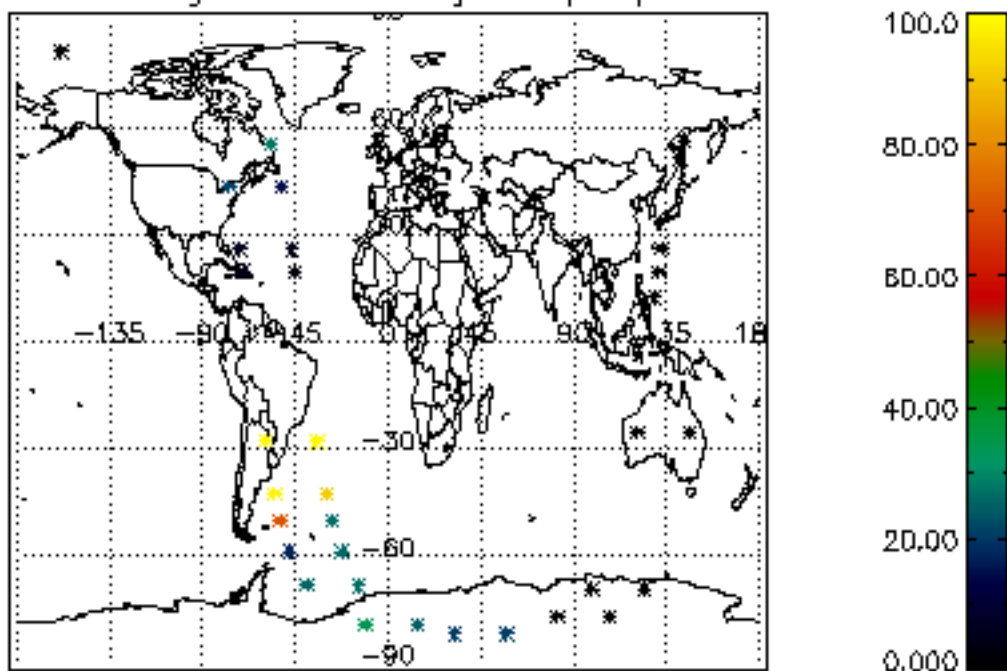




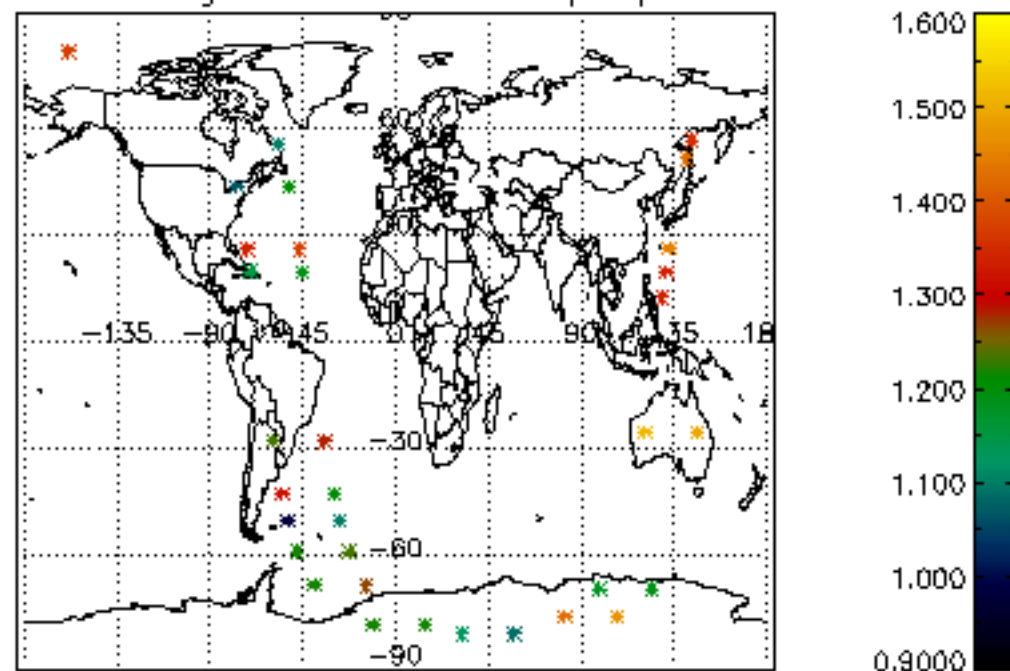




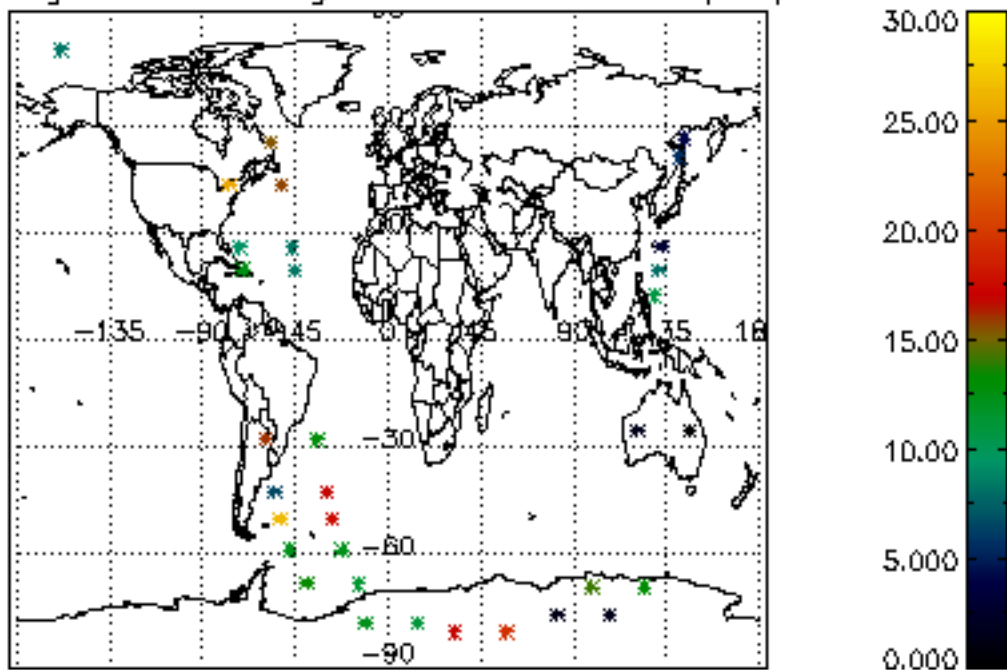
Percentage of cosmic ray hits per profile



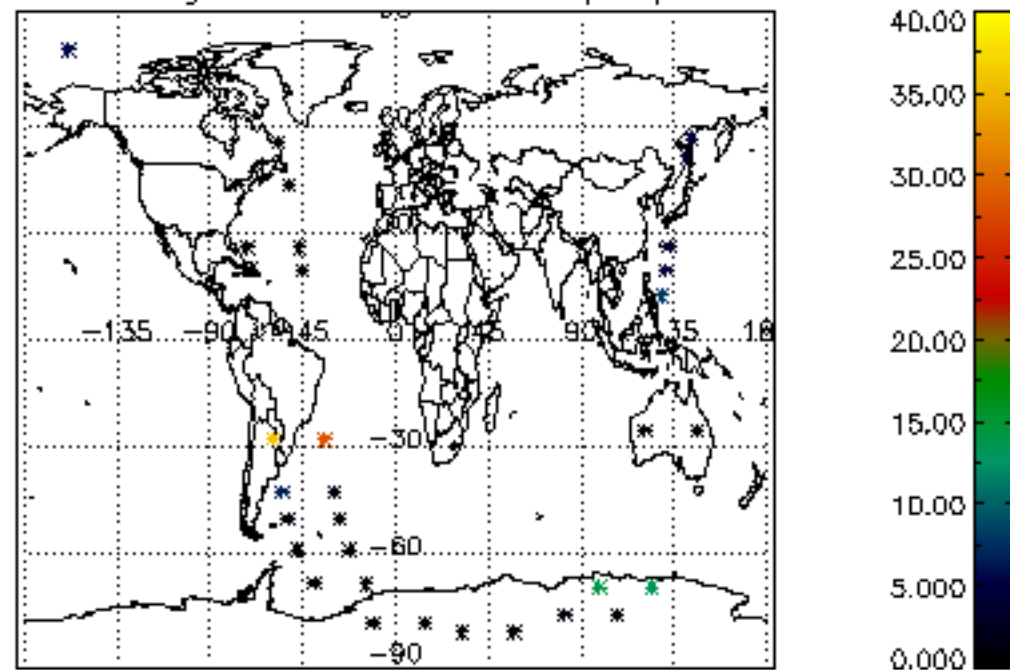
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

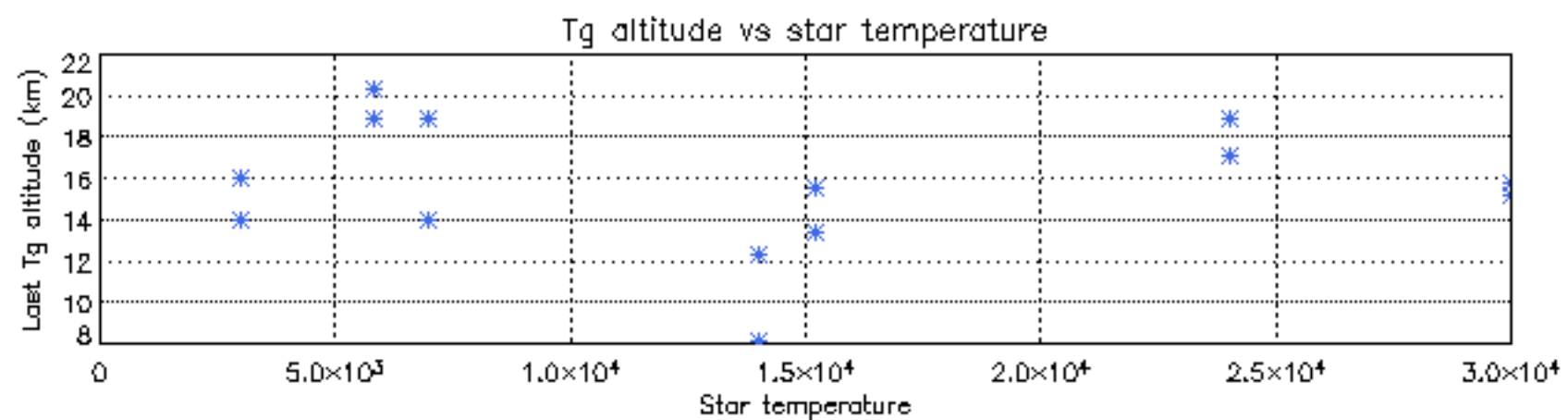
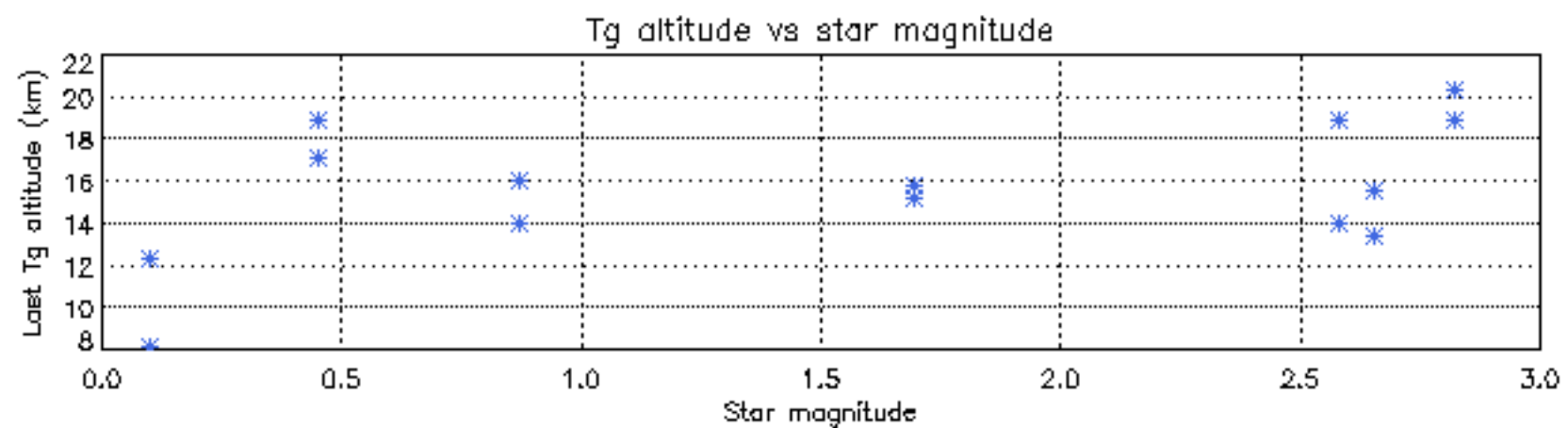
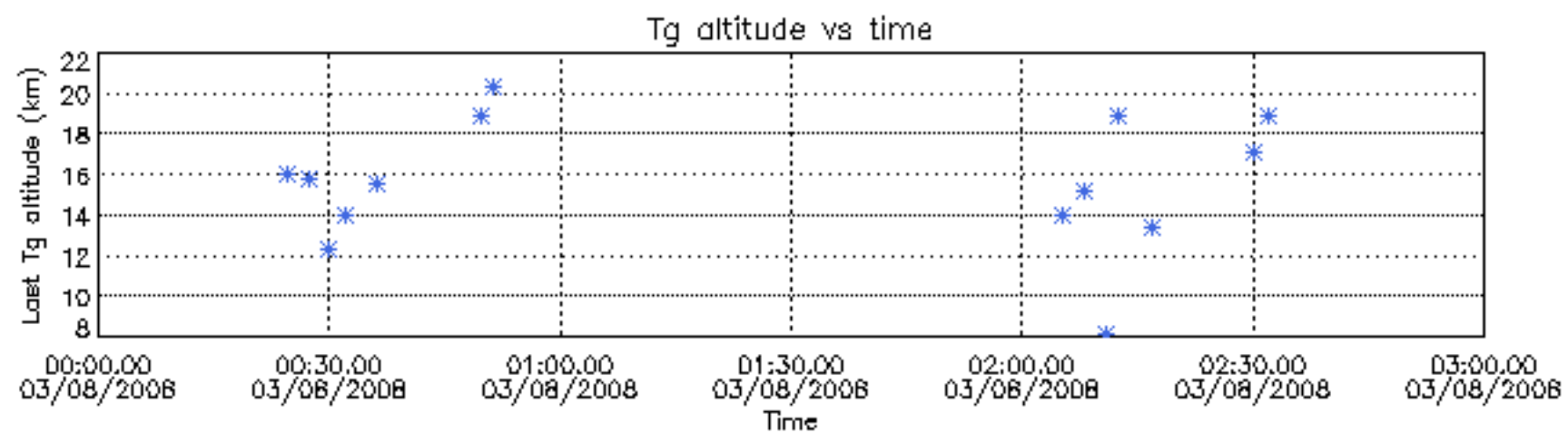


Percentage of saturation errors per profile

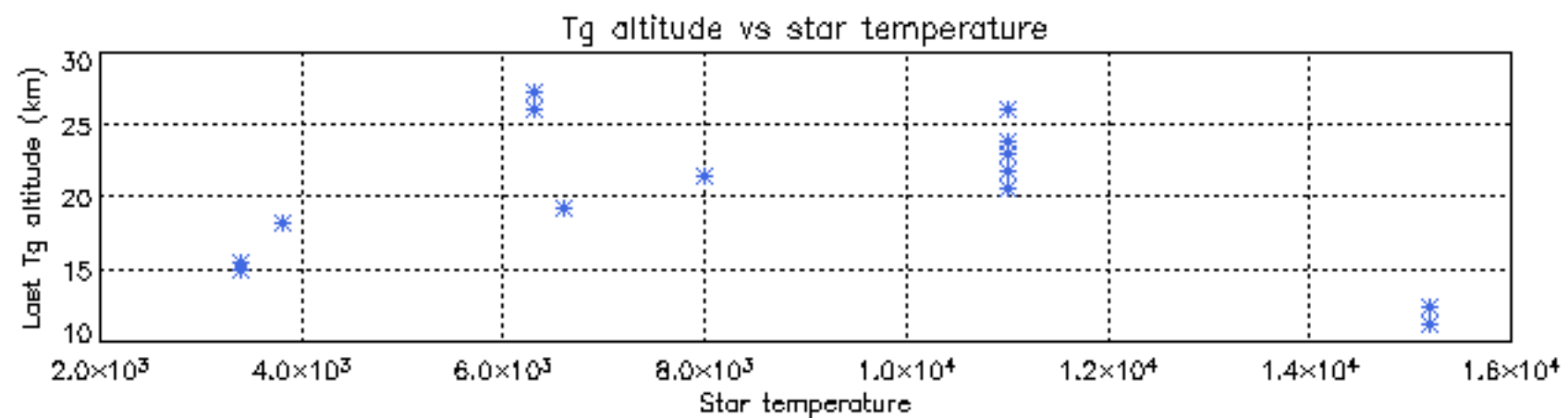
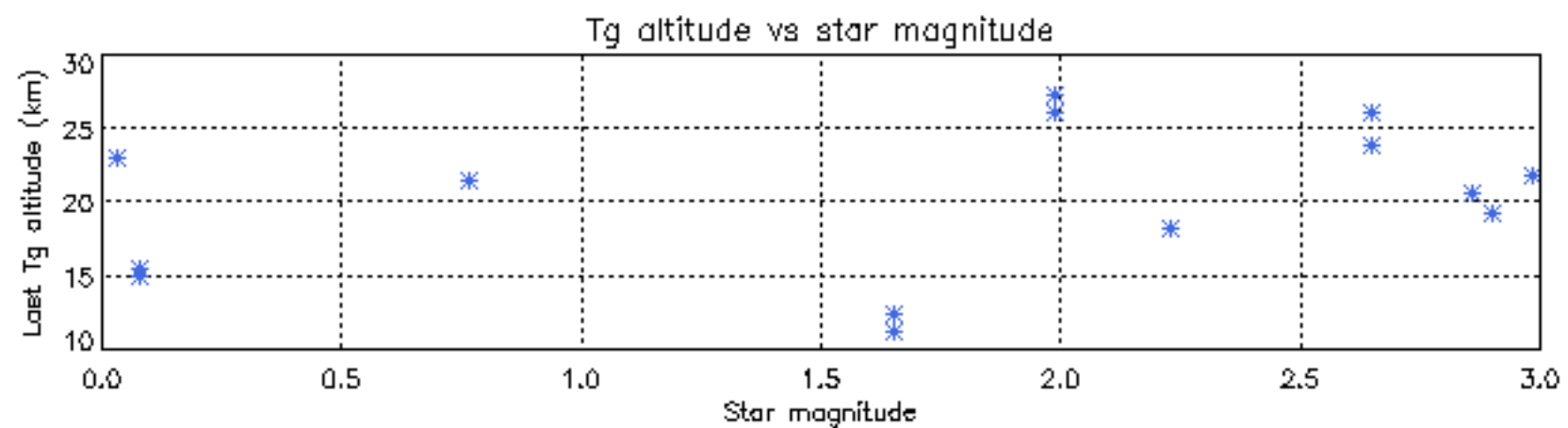
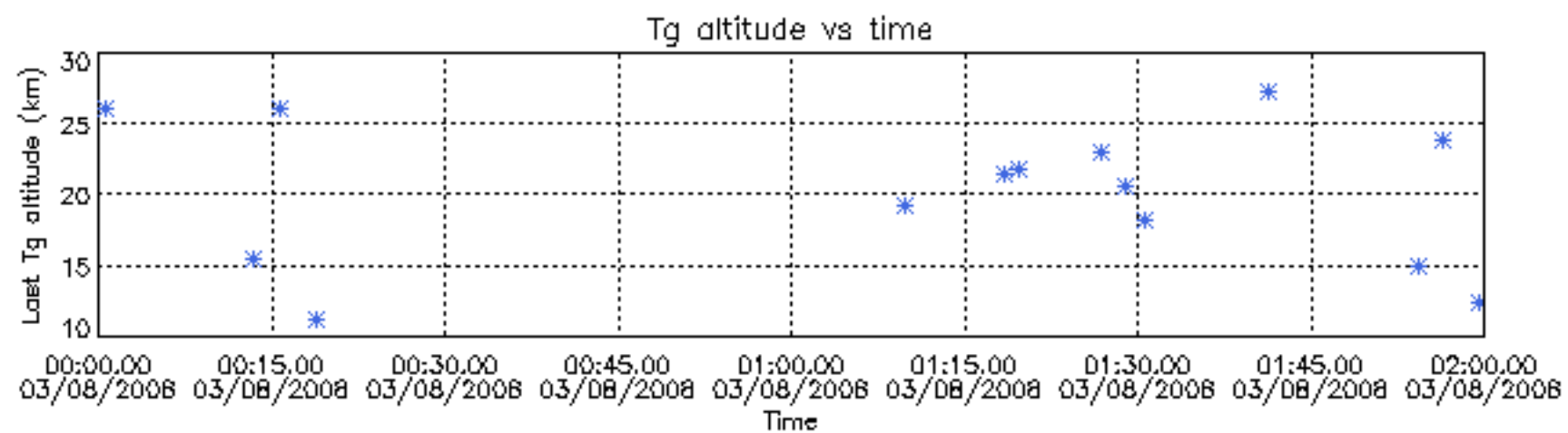


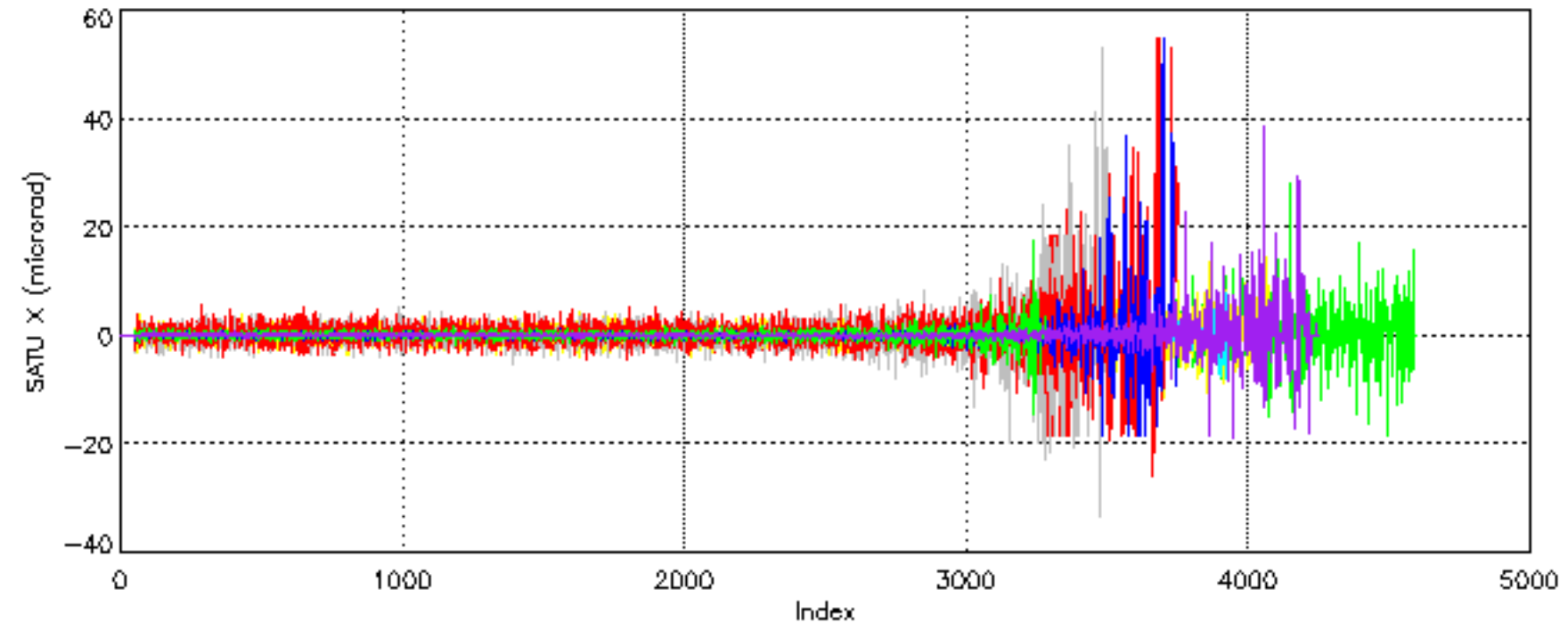


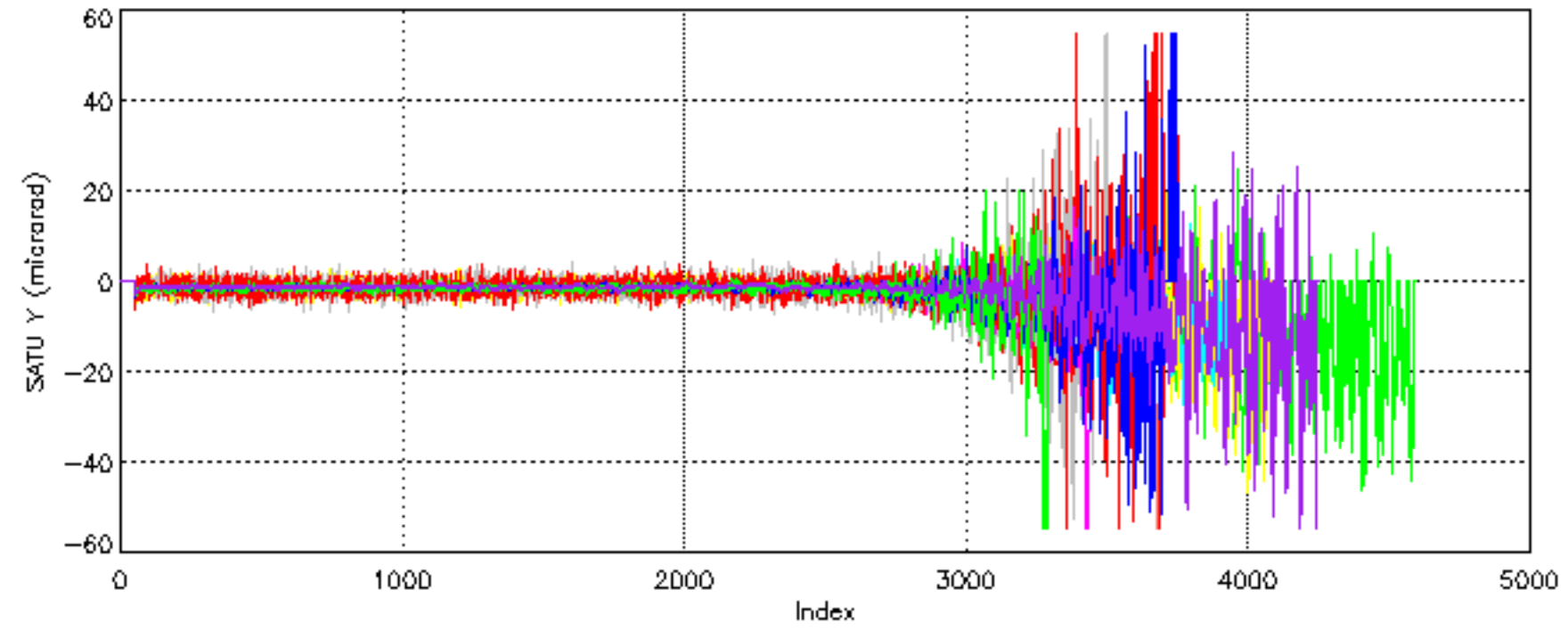
Tangent altitude at which the star is lost



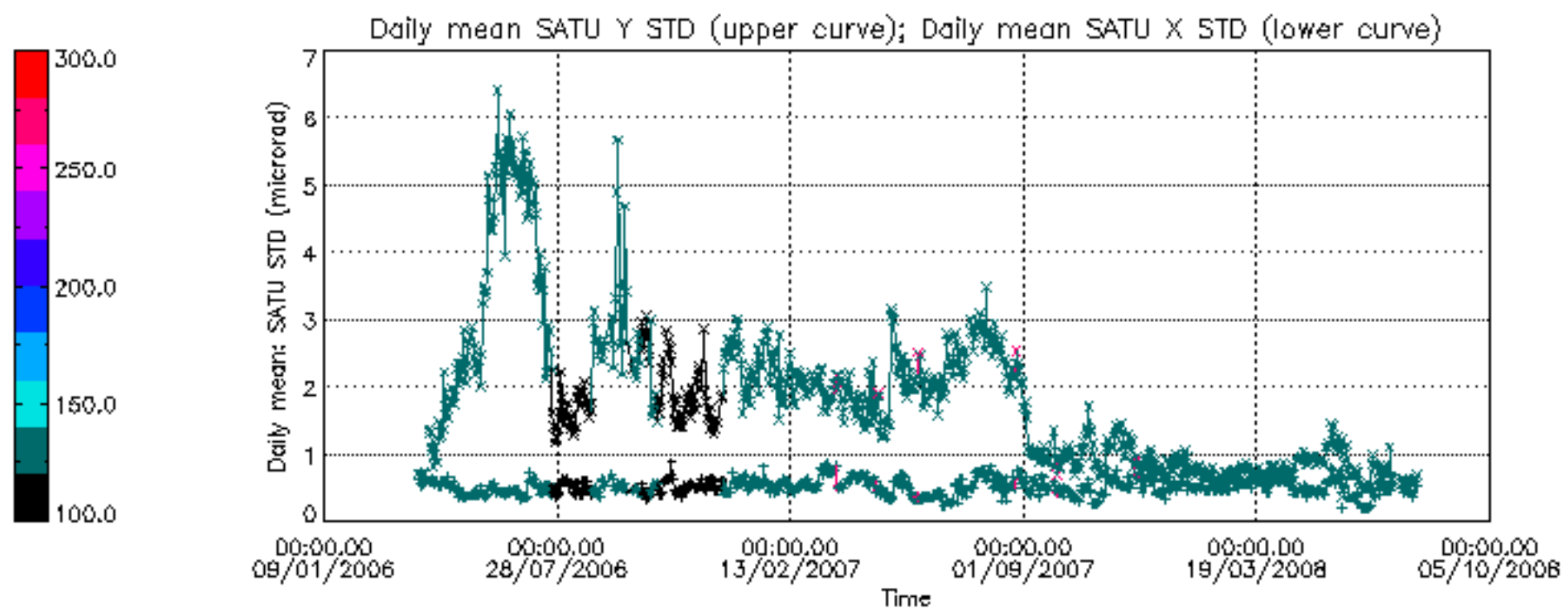
Tangent altitude at which the star is lost











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 17; 4711.9; 13-AUG-2008 01:47:30; Dark ; 38.5; 44; 24Gam Gem ; 1.93; 11000;occ; 77; 0;33738  
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4; 2702.6; 13-AUG-2008 11:17:37; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;33744  
5; 3438.5; 13-AUG-2008 11:29:52; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33744  
6; 4220.8; 13-AUG-2008 11:42:55; Bright; 45.5; 42; 34Bet Aur ; 1.90; 10200;occ; 91; 0;33744  
7; 4364.7; 13-AUG-2008 11:45:19; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;33744  
8; 4619.0; 13-AUG-2008 11:49:33; Dark ; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0;33744  
9; 4713.4; 13-AUG-2008 11:51:07; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;33744  
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11; 5259.2; 13-AUG-2008 12:00:13; Dark ; 41.5; 1; 9Alp CMa ;-1.44; 11000;occ; 83; 0;33744  
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15; 6825.7; 13-AUG-2008 12:26:20; Dark ; 44.5; 148; Alp Tuc ; 2.88; 4100;occ; 89; 0;33744  
16; 7038.2; 13-AUG-2008 12:29:52; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;33744  
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4; 2702.4; 13-AUG-2008 12:58:12; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;33745  
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6; 3438.6; 13-AUG-2008 13:10:28; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33745  
7; 4220.7; 13-AUG-2008 13:23:31; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;33745  
8; 4364.8; 13-AUG-2008 13:25:55; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;33745  
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13; 5359.6; 13-AUG-2008 13:42:29; Dark ; 36.0; 179; 240mi2CMa ; 3.03; 24000;occ; 72; 0;33745  
14; 5446.9; 13-AUG-2008 13:43:57; Dark ; 40.0; 23; 21Eps CMa ; 1.50; 26000;occ; 80; 0;33745  
15; 5603.3; 13-AUG-2008 13:46:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33745  
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17; 6469.9; 13-AUG-2008 14:01:00; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;33745  
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4; 3025.4; 13-AUG-2008 14:44:11; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;33746  
5; 3438.7; 13-AUG-2008 14:51:04; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33746  
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12; 5360.0; 13-AUG-2008 15:23:06; Dark ; 36.5; 179; 240mi2CMA ; 3.03; 24000;occ; 73; 0;33746
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 9; 4721.1; 15-AUG-2008 17:30:25; Dark ; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;33776  
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 11; 5615.2; 15-AUG-2008 17:45:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33776  
 12; 5863.9; 15-AUG-2008 17:49:27; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;33776  
 13; 6491.3; 15-AUG-2008 17:59:55; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33776  
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 15; 7050.4; 15-AUG-2008 18:09:14; Dark ; 39.0; 31; Alp Gru ; 1.73; 15200;occ; 78; 0;33776

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 9; 4626.0; 15-AUG-2008 19:09:25; Dark ; 44.5; 151; 13Mu Gem ; 2.89; 3000;occ; 89; 0;33777  
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 13; 5454.1; 15-AUG-2008 19:23:13; Dark ; 41.0; 23; 21Eps CMa ; 1.50; 26000;occ; 82; 0;33777  
 14; 5615.6; 15-AUG-2008 19:25:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33777  
 15; 5864.0; 15-AUG-2008 19:30:03; Dark ; 41.5; 2; Alp Car ; -0.74; 7000;occ; 83; 0;33777  
 16; 6492.0; 15-AUG-2008 19:40:31; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;33777  
 17; 6837.0; 15-AUG-2008 19:46:16; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;33777  
 18; 7050.9; 15-AUG-2008 19:49:50; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;33777

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 4; 212.5; 16-AUG-2008 00:38:16; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;33781  
 5; 458.0; 16-AUG-2008 00:42:21; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;33781  
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 8; 1252.8; 16-AUG-2008 00:55:36; Dark ; 57.0; 18; 24Alp PsA ; 1.17; 9700;occ; 114; 0;33781  
 9; 1592.0; 16-AUG-2008 01:01:15; Bright; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;33781  
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 11; 2502.2; 16-AUG-2008 01:16:25; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;33781  
 12; 2597.6; 16-AUG-2008 01:18:01; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33781  
 13; 2694.4; 16-AUG-2008 01:19:37; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;33781  
 14; 3015.6; 16-AUG-2008 01:24:59; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33781  
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 16; 4193.2; 16-AUG-2008 01:44:36; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;33781  
 17; 4367.4; 16-AUG-2008 01:47:30; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;33781  
 18; 4553.7; 16-AUG-2008 01:50:37; Dark ; 50.0; 28; 12Bet Tau ; 1.65; 15200;occ; 100; 0;33781  
 19; 4722.2; 16-AUG-2008 01:53:25; Dark ; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;33781  
 20; 4933.4; 16-AUG-2008 01:56:56; Dark ; 56.0; 14; 58Alp Ori ; 0.87; 3000;occ; 112; 0;33781  
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 10; 1253.4; 16-AUG-2008 02:36:12; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;33782  
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 12; 1799.9; 16-AUG-2008 02:45:19; Bright; 41.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 83; 0;33782  
 13; 2112.8; 16-AUG-2008 02:50:32; Bright; 44.0; 61; 8Eps Peg ; 2.10; 3900;occ; 88; 0;33782

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 3;-1482.0; 16-AUG-2008 03:31:13; Dark ; 50.0; 28; 12Bet Tau ; 1.65; 15200;occ; 100; 0;33782
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 9; -618.1; 16-AUG-2008 03:45:37; Dark ; 45.5; 101; 11Alp Lep ; 2.58; 7000;occ; 91; 0;33782
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14; 1016.8; 16-AUG-2008 04:12:52; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33783
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16; 1592.4; 16-AUG-2008 04:22:27; Bright; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;33783
17; 1800.0; 16-AUG-2008 04:25:55; Bright; 42.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 84; 0;33783
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19; 2502.1; 16-AUG-2008 04:37:37; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;33783
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13; 4725.4; 16-AUG-2008 22:00:40; Dark ; 42.5; 44; 24Gam Gem ; 1.93; 11000;occ; 85; 0;33793
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23; 7060.3; 17-AUG-2008 15:25:33; Dark ; 40.0; 31; Alp Gru ; 1.73; 15200;occ; 80; 0;33803
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4;	1917.2;	17-AUG-2008	15:40:26;	Bright;	47.5;	162;	34Alp Aqr	;	2.94;	5350;occ;	95;	0;33804	
5;	2106.4;	17-AUG-2008	15:43:36;	Bright;	42.5;	61;	8Eps Peg	;	2.10;	3900;occ;	85;	0;33804	
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7;	2595.7;	17-AUG-2008	15:51:45;	Bright;	36.5;	66;	37Gam Cyg	;	2.21;	5900;occ;	73;	0;33804	
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22;	6510.4;	17-AUG-2008	16:57:00;	Dark	;	44.5;	9;	Alp Eri	;	0.45;	24000;occ;	89;	0;33804
23;	6858.4;	17-AUG-2008	17:02:48;	Dark	;	51.5;	84;	Alp Phe	;	2.40;	4500;occ;	103;	0;33804
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12;	4191.3;	17-AUG-2008	17:58:56;	Bright;	48.0;	6;	13Alp Aur	;	0.08;	3400;occ;	96;	0;33805	
13;	4369.3;	17-AUG-2008	18:01:54;	Bright;	40.0;	107;	37The Aur	;	2.65;	11000;occ;	80;	0;33805	
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4;	1799.6;	17-AUG-2008	18:59:41;	Bright;	40.5;	154;	22Bet Aqr	;	2.90;	5700;occ;	81;	0;33806	
5;	1916.8;	17-AUG-2008	19:01:38;	Bright;	46.0;	162;	34Alp Aqr	;	2.94;	5350;occ;	92;	0;33806	
6;	2105.9;	17-AUG-2008	19:04:47;	Bright;	44.0;	61;	8Eps Peg	;	2.10;	3900;occ;	88;	0;33806	
7;	2497.9;	17-AUG-2008	19:11:19;	Bright;	38.5;	92;	53Eps Cyg	;	2.50;	4500;occ;	77;	0;33806	
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12;	4190.9;	17-AUG-2008	19:39:32;	Bright;	47.5;	6;	13Alp Aur	;	0.08;	3400;occ;	95;	0;33806	
13;	4369.2;	17-AUG-2008	19:42:30;	Bright;	40.5;	107;	37The Aur	;	2.65;	11000;occ;	81;	0;33806	
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4; 264.0; 19-AUG-2008 00:44:52; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;33824
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13; 2494.9; 19-AUG-2008 01:22:03; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;33824
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11; 1799.5; 19-AUG-2008 02:51:03; Bright; 40.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 80; 0;33825
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 22; 4960.2; 20-AUG-2008 01:31:31; Dark ; 63.0; 14; 58Alp Ori ; 0.87; 3000;occ; 126; 0;33838  
 23; 5045.8; 20-AUG-2008 01:32:56; Dark ; 52.5; 27; 24Gam Ori ; 1.64; 26000;occ; 105; 0;33838  
 24; 5163.0; 20-AUG-2008 01:34:54; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;33838

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 2; -1665.1; 19-AUG-2008 06:55:06; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;33827  
 3; -1472.8; 19-AUG-2008 06:58:19; Dark ; 50.0; 28; 12Bet Tau ; 1.65; 15200;occ; 100; 0;33827  
 4; -1301.7; 19-AUG-2008 07:01:10; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;33827  
 5; -1081.1; 19-AUG-2008 07:04:50; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;33827

6; -997.6; 19-AUG-2008 07:06:14; Dark ; 52.5; 27; 24Gam Ori ; 1.64; 26000;occ; 105; 0;33827  
7; -880.6; 19-AUG-2008 07:08:11; Dark ; 50.0; 30; 46Eps Ori ; 1.69; 30000;occ; 100; 0;33827  
8; -793.5; 19-AUG-2008 07:09:38; Dark ; 46.0; 125; 44Iot Ori ; 2.77; 30000;occ; 92; 0;33827  
9; -691.0; 19-AUG-2008 07:11:20; Dark ; 63.5; 7; 19Bet Ori ; 0.10; 14000;occ; 127; 0;33827  
10; -585.6; 19-AUG-2008 07:13:06; Dark ; 47.5; 101; 11Alp Lep ; 2.58; 7000;occ; 95; 0;33827  
11; -412.7; 19-AUG-2008 07:15:59; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;33827  
12; 269.0; 19-AUG-2008 07:27:20; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;33828  
13; 489.9; 19-AUG-2008 07:31:01; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;33828  
14; 840.7; 19-AUG-2008 07:36:52; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;33828  
15; 1032.7; 19-AUG-2008 07:40:04; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;33828  
16; 1271.9; 19-AUG-2008 07:44:03; Dark ; 53.0; 18; 24Alp PsA ; 1.17; 9700;occ; 106; 0;33828  
17; 1597.6; 19-AUG-2008 07:49:29; Bright; 41.0; 142; 49Del Cap ; 2.85; 8900;occ; 82; 0;33828

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1; 1799.4; 19-AUG-2008 07:52:51; Bright; 40.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 81; 0;33828  
2; 1912.6; 19-AUG-2008 07:54:44; Bright; 45.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 90; 0;33828  
3; 2100.2; 19-AUG-2008 07:57:52; Bright; 43.0; 61; 8Eps Peg ; 2.10; 3900;occ; 86; 0;33828  
4; 2494.5; 19-AUG-2008 08:04:26; Bright; 38.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 77; 0;33828  
5; 2594.1; 19-AUG-2008 08:06:05; Bright; 36.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 73; 0;33828  
6; 2686.9; 19-AUG-2008 08:07:38; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;33828  
7; 3004.3; 19-AUG-2008 08:12:56; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;33828  
8; 3437.5; 19-AUG-2008 08:20:09; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;33828  
9; 4188.7; 19-AUG-2008 08:32:40; Bright; 51.0; 6; 13Alp Aur ; 0.08; 3400;occ; 102; 0;33828  
10; 4370.9; 19-AUG-2008 08:35:42; Bright; 40.0; 107; 37The Aur ; 2.65; 11000;occ; 80; 0;33828  
11; 4563.4; 19-AUG-2008 08:38:55; Dark ; 55.5; 28; 12Bet Tau ; 1.65; 15200;occ; 111; 0;33828  
12; 4734.6; 19-AUG-2008 08:41:46; Dark ; 41.5; 44; 24Gam Gem ; 1.93; 11000;occ; 83; 0;33828  
13; 4955.2; 19-AUG-2008 08:45:27; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;33828  
14; 5039.0; 19-AUG-2008 08:46:50; Dark ; 54.5; 27; 24Gam Ori ; 1.64; 26000;occ; 109; 0;33828  
15; 5156.1; 19-AUG-2008 08:48:48; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;33828  
16; 5243.2; 19-AUG-2008 08:50:15; Dark ; 45.5; 125; 44Iot Ori ; 2.77; 30000;occ; 91; 0;33828  
17; 5345.8; 19-AUG-2008 08:51:57; Dark ; 61.0; 7; 19Bet Ori ; 0.10; 14000;occ; 122; 0;33828  
18; 5451.1; 19-AUG-2008 08:53:42; Dark ; 47.0; 101; 11Alp Lep ; 2.58; 7000;occ; 94; 0;33828  
19; 5624.0; 19-AUG-2008 08:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33828  
20; 6306.1; 19-AUG-2008 09:07:58; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;33828  
21; 6526.5; 19-AUG-2008 09:11:38; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;33828  
22; 6877.4; 19-AUG-2008 09:17:29; Dark ; 65.0; 84; Alp Phe ; 2.40; 4500;occ; 130; 0;33828  
23; 7068.9; 19-AUG-2008 09:20:40; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33828  
24; 7308.1; 19-AUG-2008 09:24:40; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;33828  
25; 7633.6; 19-AUG-2008 09:30:05; Bright; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;33828  
26; 7835.4; 19-AUG-2008 09:33:27; Bright; 18.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 37; 0;33828

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1; 1799.5; 19-AUG-2008 09:33:27; Bright; 40.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 81; 0;33829  
2; 1912.4; 19-AUG-2008 09:35:20; Bright; 45.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 90; 0;33829  
3; 2099.9; 19-AUG-2008 09:38:27; Bright; 43.0; 61; 8Eps Peg ; 2.10; 3900;occ; 86; 0;33829  
4; 2494.3; 19-AUG-2008 09:45:02; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;33829  
5; 2593.9; 19-AUG-2008 09:46:41; Bright; 34.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 69; 0;33829  
6; 2686.8; 19-AUG-2008 09:48:14; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;33829  
7; 3004.0; 19-AUG-2008 09:53:31; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;33829  
8; 3437.5; 19-AUG-2008 10:00:45; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33829  
9; 4188.5; 19-AUG-2008 10:13:16; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;33829  
10; 4370.9; 19-AUG-2008 10:16:18; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;33829  
11; 4563.6; 19-AUG-2008 10:19:31; Dark ; 52.5; 28; 12Bet Tau ; 1.65; 15200;occ; 105; 0;33829  
12; 4734.8; 19-AUG-2008 10:22:22; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;33829  
13; 4955.7; 19-AUG-2008 10:26:03; Dark ; 59.5; 14; 58Alp Ori ; 0.87; 3000;occ; 119; 0;33829  
14; 5039.7; 19-AUG-2008 10:27:27; Dark ; 56.5; 27; 24Gam Ori ; 1.64; 26000;occ; 113; 0;33829  
15; 5156.7; 19-AUG-2008 10:29:24; Dark ; 52.0; 30; 46Eps Ori ; 1.69; 30000;occ; 104; 0;33829  
16; 5244.0; 19-AUG-2008 10:30:51; Dark ; 45.5; 125; 44Iot Ori ; 2.77; 30000;occ; 91; 0;33829  
17; 5346.8; 19-AUG-2008 10:32:34; Dark ; 60.0; 7; 19Bet Ori ; 0.10; 14000;occ; 120; 0;33829  
18; 5451.8; 19-AUG-2008 10:34:19; Dark ; 49.0; 101; 11Alp Lep ; 2.58; 7000;occ; 98; 0;33829  
19; 5624.8; 19-AUG-2008 10:37:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;33829  
20; 6307.3; 19-AUG-2008 10:48:35; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;33829  
21; 6527.2; 19-AUG-2008 10:52:15; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;33829  
22; 6878.1; 19-AUG-2008 10:58:05; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;33829  
23; 7069.2; 19-AUG-2008 11:01:17; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33829  
24; 7308.6; 19-AUG-2008 11:05:16; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;33829  
25; 7633.6; 19-AUG-2008 11:10:41; Bright; 42.0; 142; 49Del Cap ; 2.85; 8900;occ; 84; 0;33829

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1; 1799.3; 19-AUG-2008 11:14:03; Bright; 41.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 83; 0;33830  
2; 1912.1; 19-AUG-2008 11:15:55; Bright; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;33830



3;	2099.6;	19-AUG-2008	11:19:03;	Bright;	41.0;	61;	8Eps Peg	; 2.10;	3900;occ;	82;	0;33830
4;	2494.1;	19-AUG-2008	11:25:37;	Bright;	36.0;	92;	53Eps Cyg	; 2.50;	4500;occ;	72;	0;33830
5;	2593.9;	19-AUG-2008	11:27:17;	Bright;	37.0;	66;	37Gam Cyg	; 2.21;	5900;occ;	74;	0;33830
6;	2686.6;	19-AUG-2008	11:28:50;	Bright;	38.5;	19;	50Alp Cyg	; 1.25;	10500;occ;	77;	0;33830
7;	3003.8;	19-AUG-2008	11:34:07;	Bright;	38.0;	89;	5Alp Cep	; 2.45;	8000;occ;	76;	0;33830
8;	3437.2;	19-AUG-2008	11:41:20;	Bright;	36.5;	49;	1Alp UMi	; 1.99;	6300;occ;	73;	0;33830
9;	4188.3;	19-AUG-2008	11:53:51;	Bright;	47.0;	6;	13Alp Aur	; 0.08;	3400;occ;	94;	0;33830
10;	4371.0;	19-AUG-2008	11:56:54;	Bright;	39.5;	107;	37The Aur	; 2.65;	11000;occ;	79;	0;33830
11;	4563.7;	19-AUG-2008	12:00:07;	Dark	; 52.0;	28;	12Bet Tau	; 1.65;	15200;occ;	104;	0;33830
12;	4735.0;	19-AUG-2008	12:02:58;	Dark	; 40.0;	44;	24Gam Gem	; 1.93;	11000;occ;	80;	0;33830
13;	4956.2;	19-AUG-2008	12:06:39;	Dark	; 62.0;	14;	58Alp Ori	; 0.87;	3000;occ;	124;	0;33830
14;	5040.3;	19-AUG-2008	12:08:03;	Dark	; 56.0;	27;	24Gam Ori	; 1.64;	26000;occ;	112;	0;33830
15;	5157.4;	19-AUG-2008	12:10:01;	Dark	; 53.0;	30;	46Eps Ori	; 1.69;	30000;occ;	106;	0;33830
16;	5244.6;	19-AUG-2008	12:11:28;	Dark	; 47.5;	125;	44Iot Ori	; 2.77;	30000;occ;	95;	0;33830
17;	5347.7;	19-AUG-2008	12:13:11;	Dark	; 58.0;	7;	19Bet Ori	; 0.10;	14000;occ;	116;	0;33830
18;	5452.6;	19-AUG-2008	12:14:56;	Dark	; 47.0;	101;	11Alp Lep	; 2.58;	7000;occ;	94;	0;33830
19;	5625.6;	19-AUG-2008	12:17:49;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;33830
20;	6308.4;	19-AUG-2008	12:29:12;	Dark	; 52.0;	157;	The1Eri	; 2.91;	9300;occ;	104;	0;33830
21;	6527.9;	19-AUG-2008	12:32:51;	Dark	; 46.5;	9;	Alp Eri	; 0.45;	24000;occ;	93;	0;33830
22;	6878.9;	19-AUG-2008	12:38:42;	Dark	; 52.5;	84;	Alp Phe	; 2.40;	4500;occ;	105;	0;33830
23;	7069.6;	19-AUG-2008	12:41:53;	Dark	; 39.0;	31;	Alp Gru	; 1.73;	15200;occ;	78;	0;33830
24;	7308.9;	19-AUG-2008	12:45:52;	Dark	; 54.0;	18;	24Alp PsA	; 1.17;	9700;occ;	108;	0;33830
25;	7633.8;	19-AUG-2008	12:51:17;	Bright;	41.0;	142;	49Del Cap	; 2.85;	8900;occ;	82;	0;33830
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2;	1799.4;	19-AUG-2008	12:54:38;	Bright;	40.0;	154;	22Bet Aqr	; 2.90;	5700;occ;	80;	0;33831
3;	1912.0;	19-AUG-2008	12:56:31;	Bright;	45.0;	162;	34Alp Aqr	; 2.94;	5350;occ;	90;	0;33831
4;	2099.4;	19-AUG-2008	12:59:38;	Bright;	42.5;	61;	8Eps Peg	; 2.10;	3900;occ;	85;	0;33831
5;	2494.1;	19-AUG-2008	13:06:13;	Bright;	38.5;	92;	53Eps Cyg	; 2.50;	4500;occ;	77;	0;33831
6;	2593.8;	19-AUG-2008	13:07:53;	Bright;	37.5;	66;	37Gam Cyg	; 2.21;	5900;occ;	75;	0;33831
7;	2686.5;	19-AUG-2008	13:09:26;	Bright;	35.0;	19;	50Alp Cyg	; 1.25;	10500;occ;	70;	0;33831
8;	3003.5;	19-AUG-2008	13:14:43;	Bright;	38.0;	89;	5Alp Cep	; 2.45;	8000;occ;	76;	0;33831
9;	3437.5;	19-AUG-2008	13:21:56;	Bright;	36.5;	49;	1Alp UMi	; 1.99;	6300;occ;	73;	0;33831
10;	4188.2;	19-AUG-2008	13:34:27;	Bright;	48.5;	6;	13Alp Aur	; 0.08;	3400;occ;	97;	0;33831
11;	4371.0;	19-AUG-2008	13:37:30;	Bright;	40.5;	107;	37The Aur	; 2.65;	11000;occ;	81;	0;33831
12;	4564.0;	19-AUG-2008	13:40:43;	Dark	; 55.5;	28;	12Bet Tau	; 1.65;	15200;occ;	111;	0;33831
13;	4735.5;	19-AUG-2008	13:43:35;	Dark	; 44.0;	44;	24Gam Gem	; 1.93;	11000;occ;	88;	0;33831
14;	4956.7;	19-AUG-2008	13:47:16;	Dark	; 58.5;	14;	58Alp Ori	; 0.87;	3000;occ;	117;	0;33831
15;	5041.1;	19-AUG-2008	13:48:40;	Dark	; 57.5;	27;	24Gam Ori	; 1.64;	26000;occ;	115;	0;33831
16;	5158.2;	19-AUG-2008	13:50:37;	Dark	; 52.5;	30;	46Eps Ori	; 1.69;	30000;occ;	105;	0;33831
17;	5245.4;	19-AUG-2008	13:52:04;	Dark	; 48.0;	125;	44Iot Ori	; 2.77;	30000;occ;	96;	0;33831
18;	5348.6;	19-AUG-2008	13:53:48;	Dark	; 59.5;	7;	19Bet Ori	; 0.10;	14000;occ;	119;	0;33831
19;	5453.4;	19-AUG-2008	13:55:32;	Dark	; 48.0;	101;	11Alp Lep	; 2.58;	7000;occ;	96;	0;33831
20;	5626.5;	19-AUG-2008	13:58:25;	Dark	; 59.0;	0;		; 0.00;	0;occ;	118;	0;33831
21;	6309.7;	19-AUG-2008	14:09:49;	Dark	; 53.5;	157;	The1Eri	; 2.91;	9300;occ;	107;	0;33831
22;	6528.6;	19-AUG-2008	14:13:28;	Dark	; 45.0;	9;	Alp Eri	; 0.45;	24000;occ;	90;	0;33831
23;	6879.7;	19-AUG-2008	14:19:19;	Dark	; 54.0;	84;	Alp Phe	; 2.40;	4500;occ;	108;	0;33831
24;	7070.0;	19-AUG-2008	14:22:29;	Dark	; 39.5;	31;	Alp Gru	; 1.73;	15200;occ;	79;	0;33831
25;	7309.3;	19-AUG-2008	14:26:28;	Dark	; 52.5;	18;	24Alp PsA	; 1.17;	9700;occ;	105;	0;33831
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1;	1598.1;	19-AUG-2008	14:31:53;	Bright;	41.5;	142;	49Del Cap	; 2.85;	8900;occ;	83;	0;33832
2;	1799.5;	19-AUG-2008	14:35:14;	Bright;	40.5;	154;	22Bet Aqr	; 2.90;	5700;occ;	81;	0;33832
3;	1911.9;	19-AUG-2008	14:37:07;	Bright;	45.5;	162;	34Alp Aqr	; 2.94;	5350;occ;	91;	0;33832
4;	2099.3;	19-AUG-2008	14:40:14;	Bright;	42.5;	61;	8Eps Peg	; 2.10;	3900;occ;	85;	0;33832
5;	2494.0;	19-AUG-2008	14:46:49;	Bright;	37.5;	92;	53Eps Cyg	; 2.50;	4500;occ;	75;	0;33832
6;	2593.8;	19-AUG-2008	14:48:29;	Bright;	35.5;	66;	37Gam Cyg	; 2.21;	5900;occ;	71;	0;33832
7;	2686.4;	19-AUG-2008	14:50:01;	Bright;	37.5;	19;	50Alp Cyg	; 1.25;	10500;occ;	75;	0;33832
8;	3003.4;	19-AUG-2008	14:55:18;	Bright;	37.0;	89;	5Alp Cep	; 2.45;	8000;occ;	74;	0;33832
9;	3437.5;	19-AUG-2008	15:02:32;	Bright;	34.0;	49;	1Alp UMi	; 1.99;	6300;occ;	68;	0;33832
10;	4188.3;	19-AUG-2008	15:15:03;	Bright;	51.0;	6;	13Alp Aur	; 0.08;	3400;occ;	102;	0;33832
11;	4371.1;	19-AUG-2008	15:18:06;	Bright;	39.0;	107;	37The Aur	; 2.65;	11000;occ;	78;	0;33832
12;	4564.3;	19-AUG-2008	15:21:19;	Dark	; 51.5;	28;	12Bet Tau	; 1.65;	15200;occ;	103;	0;33832
13;	4735.8;	19-AUG-2008	15:24:11;	Dark	; 42.5;	44;	24Gam Gem	; 1.93;	11000;occ;	85;	0;33832
14;	4957.3;	19-AUG-2008	15:27:52;	Dark	; 55.5;	14;	58Alp Ori	; 0.87;	3000;occ;	111;	0;33832
15;	5041.8;	19-AUG-2008	15:29:17;	Dark	; 57.5;	27;	24Gam Ori	; 1.64;	26000;occ;	115;	0;33832
16;	5159.0;	19-AUG-2008	15:31:14;	Dark	; 52.5;	30;	46Eps Ori	; 1.69;	30000;occ;	105;	0;33832
17;	5246.3;	19-AUG-2008	15:32:41;	Dark	; 43.5;	125;	44Iot Ori	; 2.77;	30000;occ;	87;	0;33832
18;	5349.7;	19-AUG-2008	15:34:25;	Dark	; 61.0;	7;	19Bet Ori	; 0.10;	14000;occ;	122;	0;33832

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4; 2487.4; 24-AUG-2008 10:28:01; Bright; 37.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 74; 0;33901
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6; 2679.3; 24-AUG-2008 10:31:13; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;33901
7; 2989.7; 24-AUG-2008 10:36:23; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;33901
8; 3436.3; 24-AUG-2008 10:43:50; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33901
9; 4217.3; 24-AUG-2008 10:56:51; Bright; 45.0; 42; 34Bet Aur ; 1.90; 10200;occ; 90; 0;33901
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14; 5317.9; 24-AUG-2008 11:15:11; Dark ; 45.5; 1; 9Alp CMa ; -1.44; 11000;occ; 91; 0;33901
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22; 7092.2; 24-AUG-2008 11:44:46; Dark ; 39.0; 31; Alp Gru ; 1.73; 15200;occ; 78; 0;33901

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5; 2487.3; 24-AUG-2008 12:08:37; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;33902
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11; 4437.7; 24-AUG-2008 12:41:07; Bright; 34.5; 24; 66Alp Gem ; 1.58; 10200;occ; 69; 0;33902
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5; 2487.3; 24-AUG-2008 15:29:48; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;33904
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13; 4756.8; 24-AUG-2008 16:07:38; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;33904
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 4; 2486.1; 28-AUG-2008 10:02:07; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;33958
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