

# GOMOS Daily Report 18-AUG-2008

## Level 0 and Level 1 products

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## [Level 2 products](#)

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	20AUG2008 05:32:24
Data source version	GOMOS/5.00
Start time of products	18AUG2008 00:01:28
Stop time of products	18AUG2008 03:27:45
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

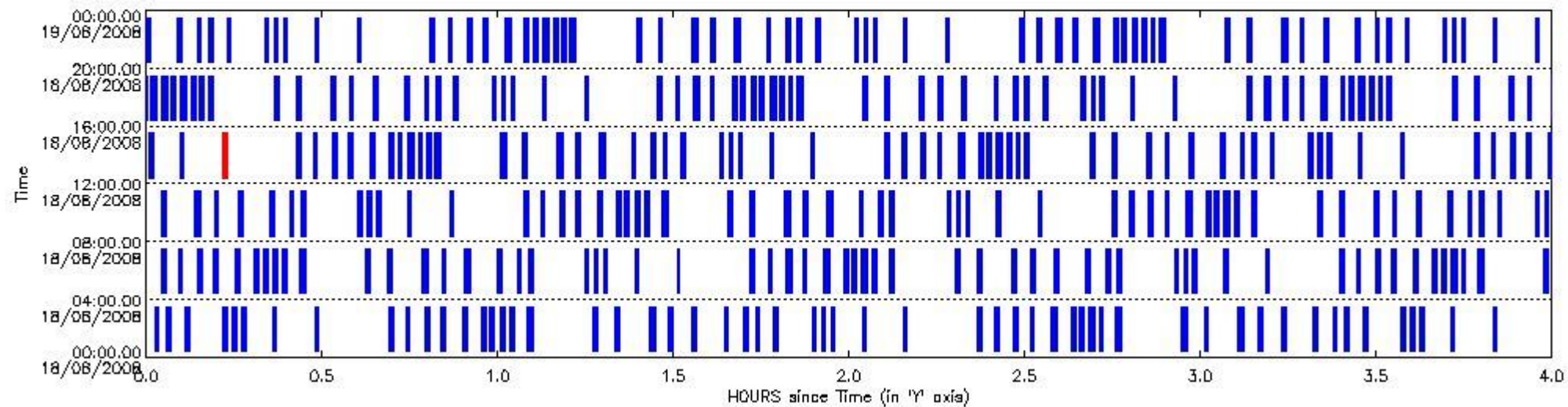
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



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

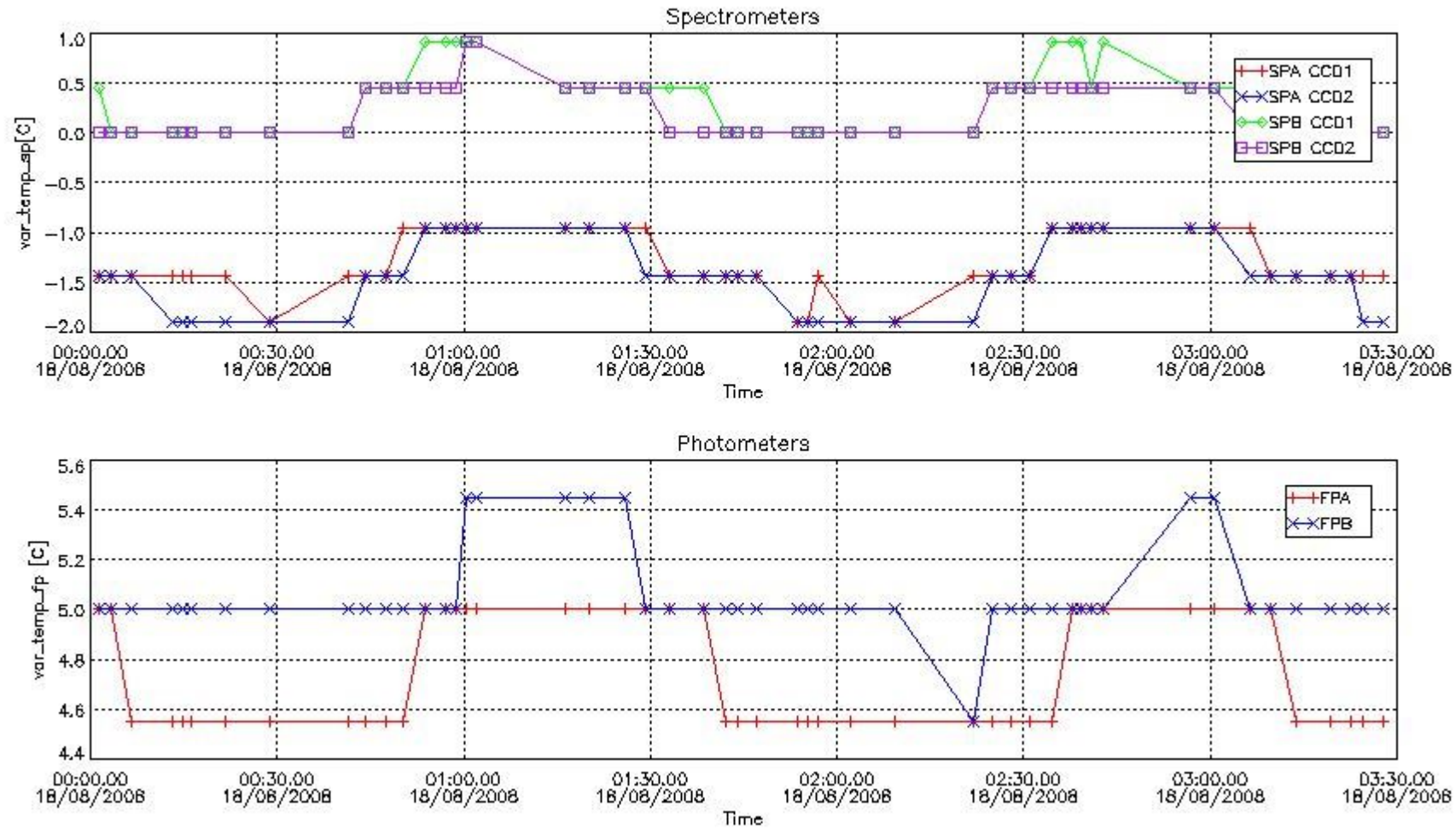
UTC start time	Star name	Star ID	Orbit
18-AUG-2008 12:12:57	1AlpUMi	49	33816

### 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_1PNPDE20080818_000128_000000422071_00188_33809_5220.N1	18-AUG-2008 00:01:28	Bright	41.500	154	22Bet Aqr	2.8990	5700.0	83	33809	No
2	GOM_TRA_1PNPDE20080818_000325_000000462071_00188_33809_5221.N1	18-AUG-2008 00:03:25	Bright	46.000	162	34Alp Aqr	2.9440	5350.0	92	33809	No
3	GOM_TRA_1PNPDE20080818_000634_000000452071_00188_33809_5222.N1	18-AUG-2008 00:06:34	Bright	45.000	61	8Eps Peg	2.1000	3900.0	90	33809	No
4	GOM_TRA_1PNPDE20080818_001306_000000392071_00188_33809_5223.N1	18-AUG-2008 00:13:06	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	33809	No
5	GOM_TRA_1PNPDE20080818_001444_000000362071_00188_33809_5224.N1	18-AUG-2008 00:14:44	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	33809	No
6	GOM_TRA_1PNPDE20080818_001618_000000382071_00188_33809_5225.N1	18-AUG-2008 00:16:18	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	33809	No
7	GOM_TRA_1PNPDE20080818_002137_000000382071_00188_33809_5226.N1	18-AUG-2008 00:21:37	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	33809	No
8	GOM_TRA_1PNPDE20080818_002846_000000362071_00188_33809_5227.N1	18-AUG-2008 00:28:46	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	33809	No
9	GOM_TRA_1PNPDE20080818_004119_000000502071_00188_33809_5228.N1	18-AUG-2008 00:41:19	Bright	49.500	6	13Alp Aur	0.080000	3400.0	99	33809	No
10	GOM_TRA_1PNPDE20080818_004418_000000392071_00188_33809_5229.N1	18-AUG-2008 00:44:18	Bright	38.500	107	37The Aur	2.6490	11000.	77	33809	No

11	GOM_TRA_1PNPDE20080818_004728_00000532071_00188_33809_5230.N1	18-AUG-2008 00:47:28	Twilight	53.000	28	12Bet Tau	1.6500	15200.	106	33809	No
12	GOM_TRA_1PNPDE20080818_005018_00000442071_00188_33809_5231.N1	18-AUG-2008 00:50:18	Twilight	43.500	44	24Gam Gem	1.9280	11000.	87	33809	No
13	GOM_TRA_1PNPDE20080818_005355_00000552071_00188_33809_5232.N1	18-AUG-2008 00:53:55	Dark	54.500	14	58Alp Ori	0.87000	3000.0	109	33809	No
14	GOM_TRA_1PNPDE20080818_005712_00000532071_00188_33809_5233.N1	18-AUG-2008 00:57:12	Dark	52.500	30	46Eps Ori	1.6940	30000.	105	33809	No
15	GOM_TRA_1PNPDE20080818_005839_00000472071_00188_33809_5234.N1	18-AUG-2008 00:58:39	Dark	46.500	125	44lot Ori	2.7700	30000.	93	33809	No
16	GOM_TRA_1PNPDE20080818_010018_00000572071_00188_33809_5362.N1	18-AUG-2008 01:00:18	Dark	57.000	7	19Bet Ori	0.10000	14000.	114	33809	Yes
17	GOM_TRA_1PNPDE20080818_010206_00000432071_00188_33809_5363.N1	18-AUG-2008 01:02:06	Dark	42.500	101	11Alp Lep	2.5820	7000.0	85	33809	No
18	GOM_TRA_1PNPDE20080818_011612_00000512071_00189_33810_5364.N1	18-AUG-2008 01:16:12	Dark	51.000	157	The1Eri	2.9060	9300.0	102	33810	No
19	GOM_TRA_1PNPDE20080818_012003_00000512071_00189_33810_5365.N1	18-AUG-2008 01:20:03	Dark	51.000	9	Alp Eri	0.45300	24000.	102	33810	No
20	GOM_TRA_1PNPDE20080818_012551_00000612071_00189_33810_5366.N1	18-AUG-2008 01:25:51	Straylight	61.000	84	Alp Phe	2.3970	4500.0	122	33810	No
21	GOM_TRA_1PNPDE20080818_012911_00000422071_00189_33810_5367.N1	18-AUG-2008 01:29:11	Straylight	42.000	31	Alp Gru	1.7340	15200.	84	33810	No
22	GOM_TRA_1PNPDE20080818_013310_00000532071_00189_33810_5368.N1	18-AUG-2008 01:33:10	Twilight	53.000	18	24Alp PsA	1.1660	9700.0	106	33810	No
23	GOM_TRA_1PNPDE20080818_013840_00000422071_00189_33810_5369.N1	18-AUG-2008 01:38:40	Bright	42.000	142	49Del Cap	2.8500	8900.0	84	33810	No
24	GOM_TRA_1PNPDE20080818_014204_00000412071_00189_33810_5370.N1	18-AUG-2008 01:42:04	Bright	41.000	154	22Bet Aqr	2.8990	5700.0	82	33810	No
25	GOM_TRA_1PNPDE20080818_014401_00000462071_00189_33810_5371.N1	18-AUG-2008 01:44:01	Bright	45.500	162	34Alp Aqr	2.9440	5350.0	91	33810	No
26	GOM_TRA_1PNPDE20080818_014709_00000442071_00189_33810_5372.N1	18-AUG-2008 01:47:09	Bright	44.000	61	8Eps Peg	2.1000	3900.0	88	33810	No
27	GOM_TRA_1PNPDE20080818_015342_00000392071_00189_33810_5373.N1	18-AUG-2008 01:53:42	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	33810	No
28	GOM_TRA_1PNPDE20080818_015520_00000362071_00189_33810_5374.N1	18-AUG-2008 01:55:20	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	33810	No
29	GOM_TRA_1PNPDE20080818_015654_00000362071_00189_33810_5375.N1	18-AUG-2008 01:56:54	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	33810	No
30	GOM_TRA_1PNPDE20080818_020213_00000382071_00189_33810_5376.N1	18-AUG-2008 02:02:13	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	33810	No
31	GOM_TRA_1PNPDE20080818_020922_00000342071_00189_33810_5377.N1	18-AUG-2008 02:09:22	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	33810	No
32	GOM_TRA_1PNPDE20080818_022155_00000482071_00189_33810_5500.N1	18-AUG-2008 02:21:55	Bright	48.000	6	13Alp Aur	0.080000	3400.0	96	33810	No
33	GOM_TRA_1PNPDE20080818_022454_00000392071_00189_33810_5501.N1	18-AUG-2008 02:24:54	Bright	39.000	107	37The Aur	2.6490	11000.	78	33810	No
34	GOM_TRA_1PNPDE20080818_022804_00000522071_00189_33810_5502.N1	18-AUG-2008 02:28:04	Twilight	52.000	28	12Bet Tau	1.6500	15200.	104	33810	No
35	GOM_TRA_1PNPDE20080818_023055_00000412071_00189_33810_5503.N1	18-AUG-2008 02:30:55	Twilight	41.000	44	24Gam Gem	1.9280	11000.	82	33810	No
36	GOM_TRA_1PNPDE20080818_023431_00000582071_00189_33810_5504.N1	18-AUG-2008 02:34:31	Dark	57.500	14	58Alp Ori	0.87000	3000.0	115	33810	No
37	GOM_TRA_1PNPDE20080818_023749_00000512071_00189_33810_5505.N1	18-AUG-2008 02:37:49	Dark	51.000	30	46Eps Ori	1.6940	30000.	102	33810	No
38	GOM_TRA_1PNPDE20080818_023915_00000462071_00189_33810_5506.N1	18-AUG-2008 02:39:15	Dark	45.500	125	44lot Ori	2.7700	30000.	91	33810	No
39	GOM_TRA_1PNPDE20080818_024055_00000572071_00189_33810_5507.N1	18-AUG-2008 02:40:55	Dark	57.000	7	19Bet Ori	0.10000	14000.	114	33810	No
40	GOM_TRA_1PNPDE20080818_024242_00000432071_00189_33810_5508.N1	18-AUG-2008 02:42:42	Dark	42.500	101	11Alp Lep	2.5820	7000.0	85	33810	No
41	GOM_TRA_1PNPDE20080818_025649_00000522071_00190_33811_5509.N1	18-AUG-2008 02:56:49	Dark	52.000	157	The1Eri	2.9060	9300.0	104	33811	No
42	GOM_TRA_1PNPDE20080818_030039_00000442071_00190_33811_5510.N1	18-AUG-2008 03:00:39	Dark	44.000	9	Alp Eri	0.45300	24000.	88	33811	No
43	GOM_TRA_1PNPDE20080818_030628_00000602071_00190_33811_5511.N1	18-AUG-2008 03:06:28	Straylight	60.000	84	Alp Phe	2.3970	4500.0	120	33811	No
44	GOM_TRA_1PNPDE20080818_030947_00000432071_00190_33811_5512.N1	18-AUG-2008 03:09:47	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	33811	No
45	GOM_TRA_1PNPDE20080818_031346_00000542071_00190_33811_5513.N1	18-AUG-2008 03:13:46	Twilight	54.000	18	24Alp PsA	1.1660	9700.0	108	33811	No
46	GOM_TRA_1PNPDE20080818_031916_00000432071_00190_33811_5514.N1	18-AUG-2008 03:19:16	Bright	42.500	142	49Del Cap	2.8500	8900.0	85	33811	No
47	GOM_TRA_1PNPDE20080818_032240_00000412071_00190_33811_5515.N1	18-AUG-2008 03:22:40	Bright	41.000	154	22Bet Aqr	2.8990	5700.0	82	33811	No
48	GOM_TRA_1PNPDE20080818_032436_00000462071_00190_33811_5516.N1	18-AUG-2008 03:24:36	Bright	45.500	162	34Alp Aqr	2.9440	5350.0	91	33811	No
49	GOM_TRA_1PNPDE20080818_032745_00000432071_00190_33811_5517.N1	18-AUG-2008 03:27:45	Bright	42.500	61	8Eps Peg	2.1000	3900.0	85	33811	No

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



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

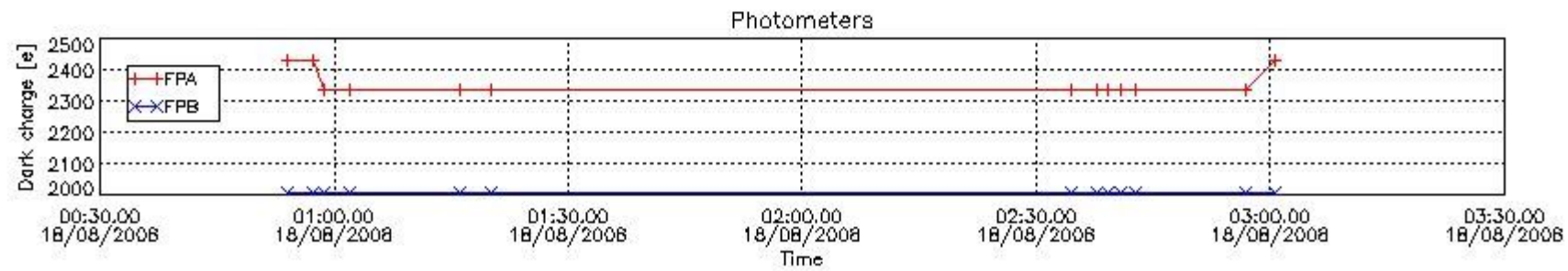
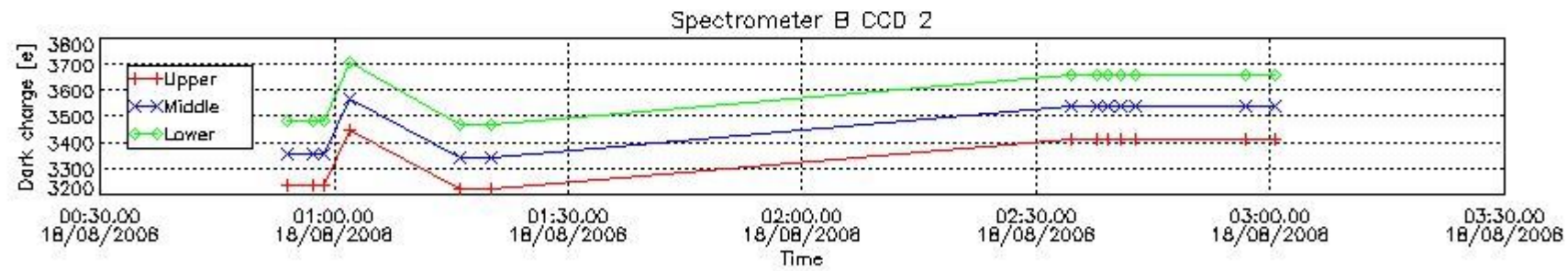
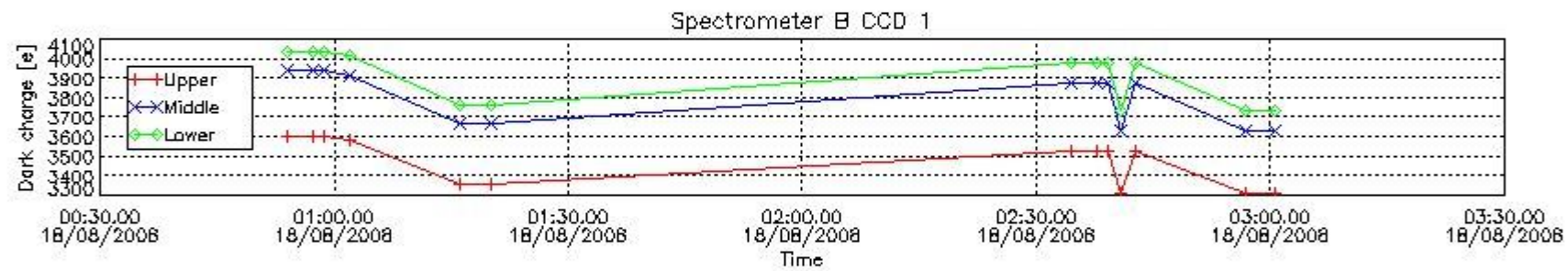
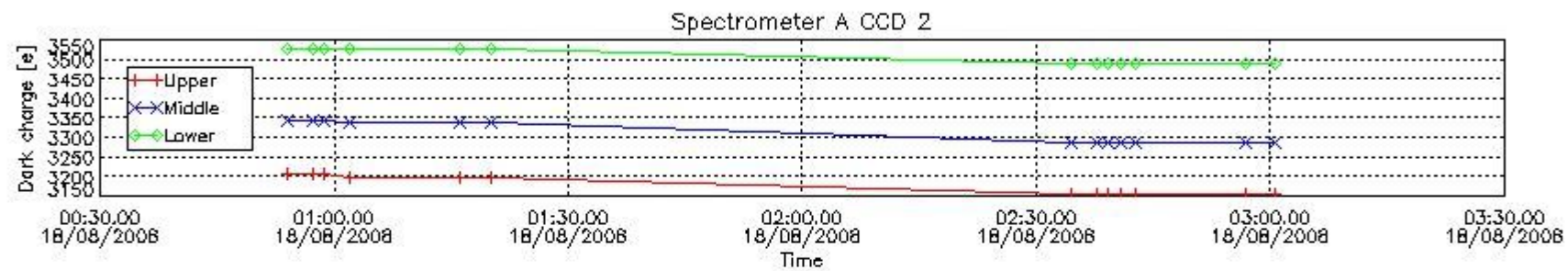
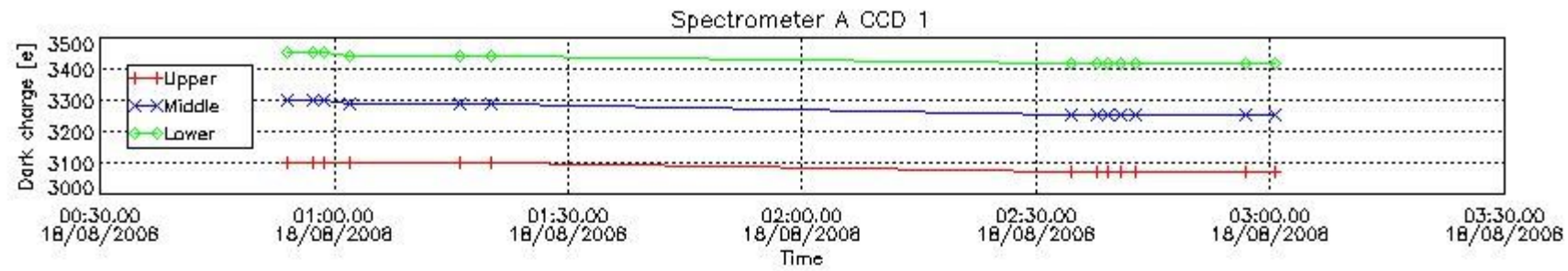
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





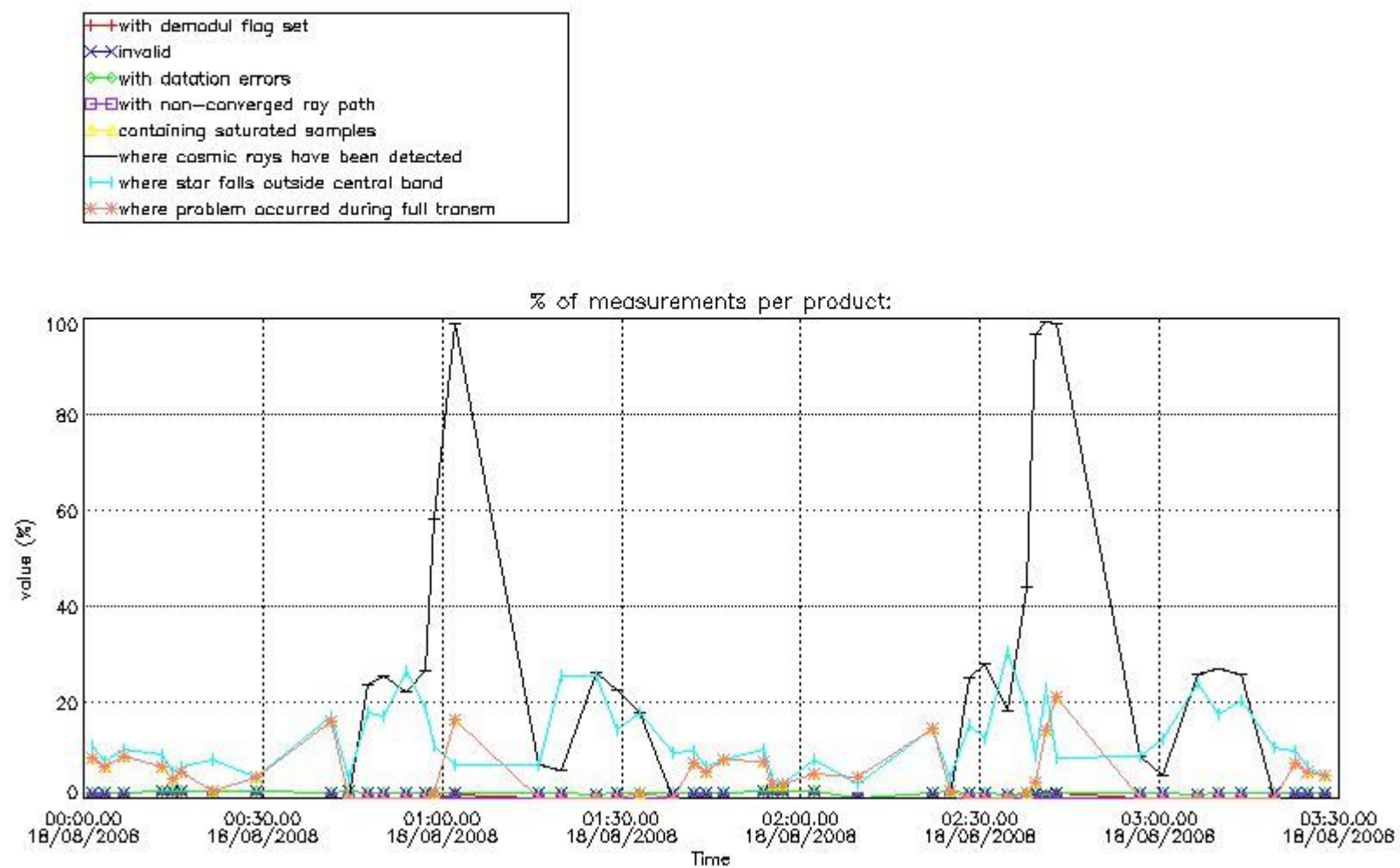
## 5. Demodulation flag and quality information monitoring

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:

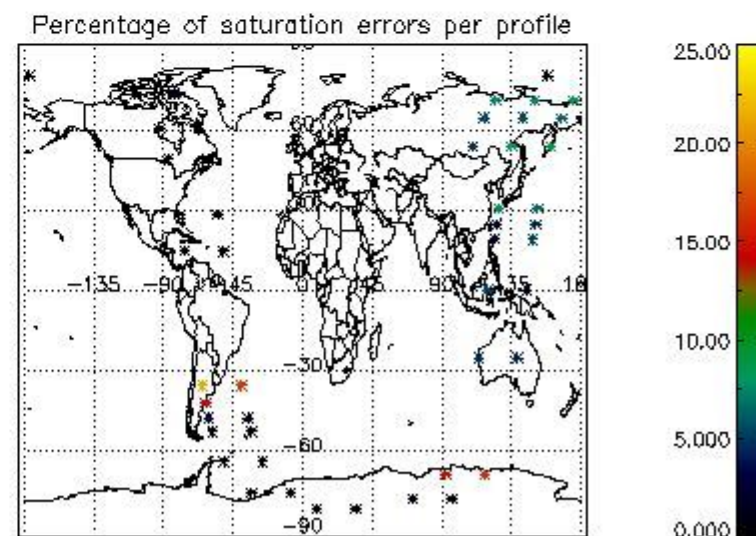
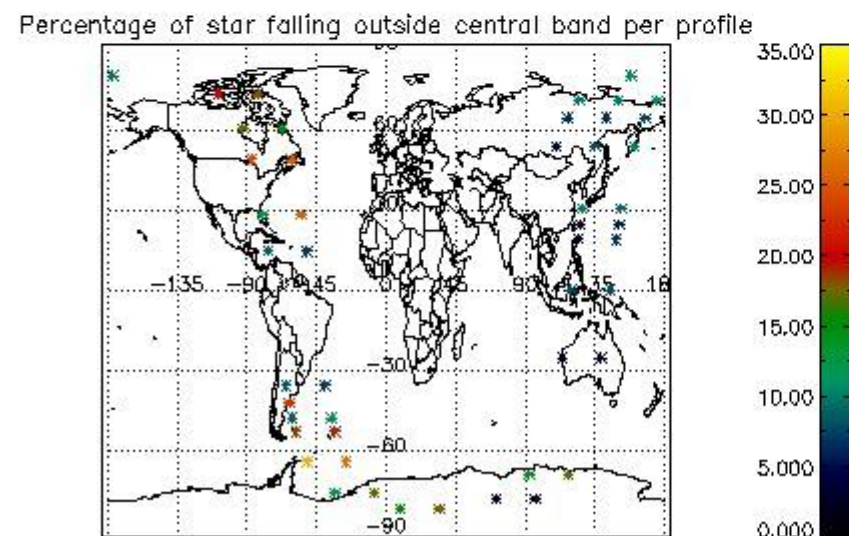
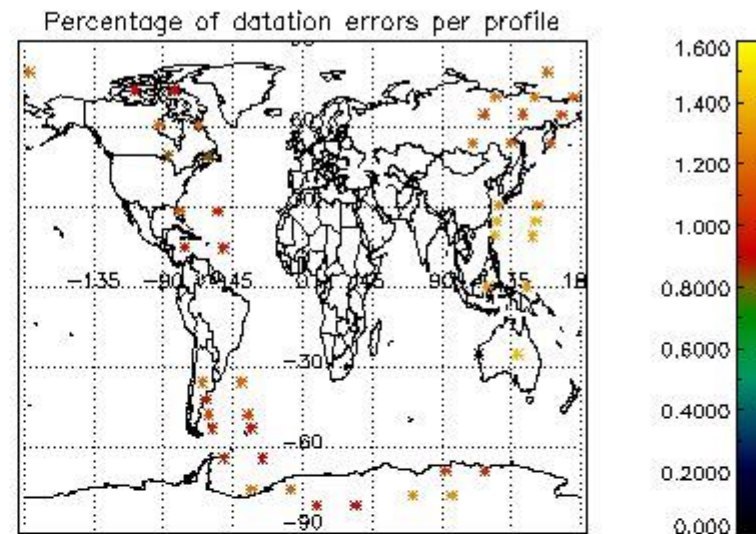
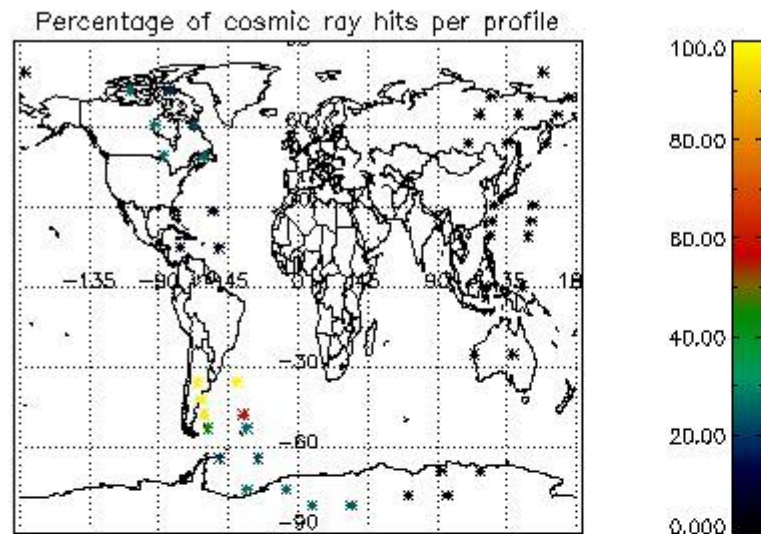
At least one measurement with demodulation flag set:	22.9167 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





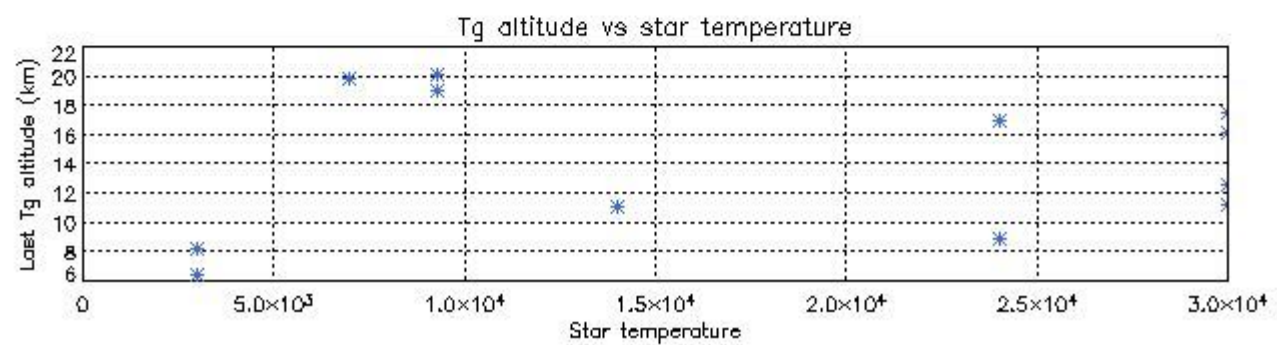
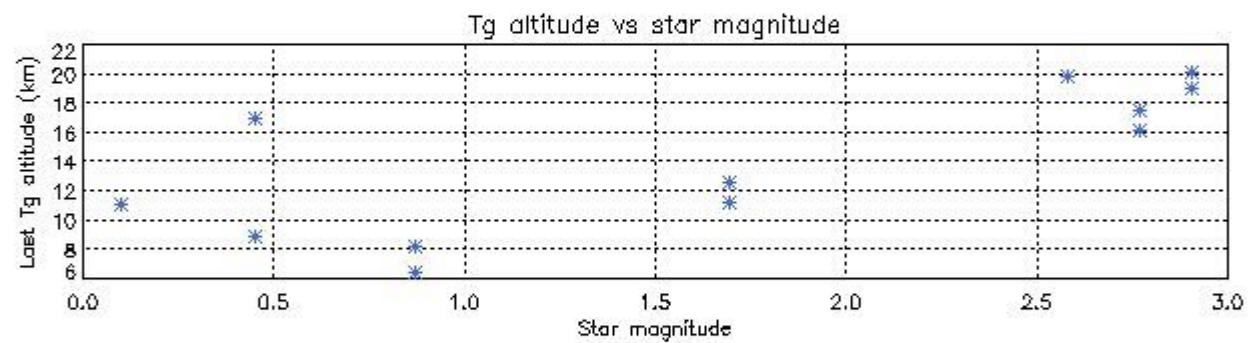
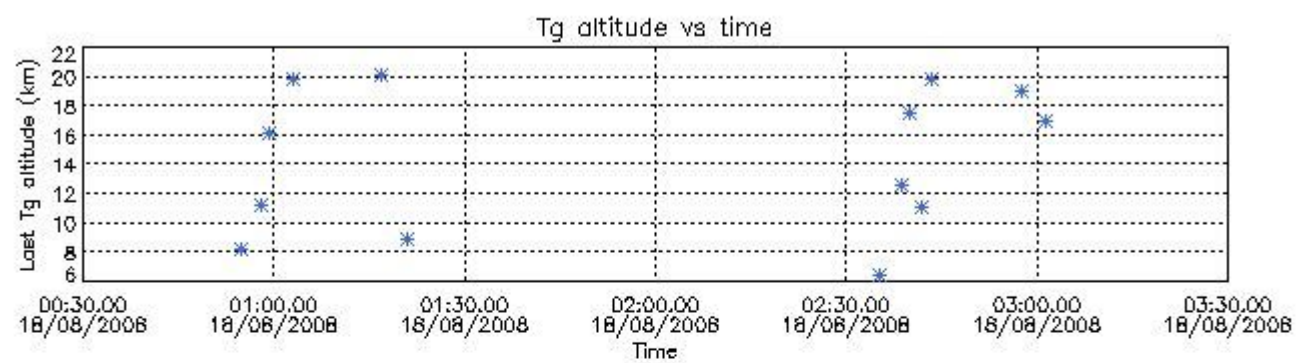
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.428	19.753	NaN
St. deviation:	4.9225	2.6677	NaN
Maximum:	20.066	25.020	NaN
Minimum:	6.3546	13.351	NaN
Number of data:	13.000	25.000	NaN

### 6.2 Plot for DARK limb products

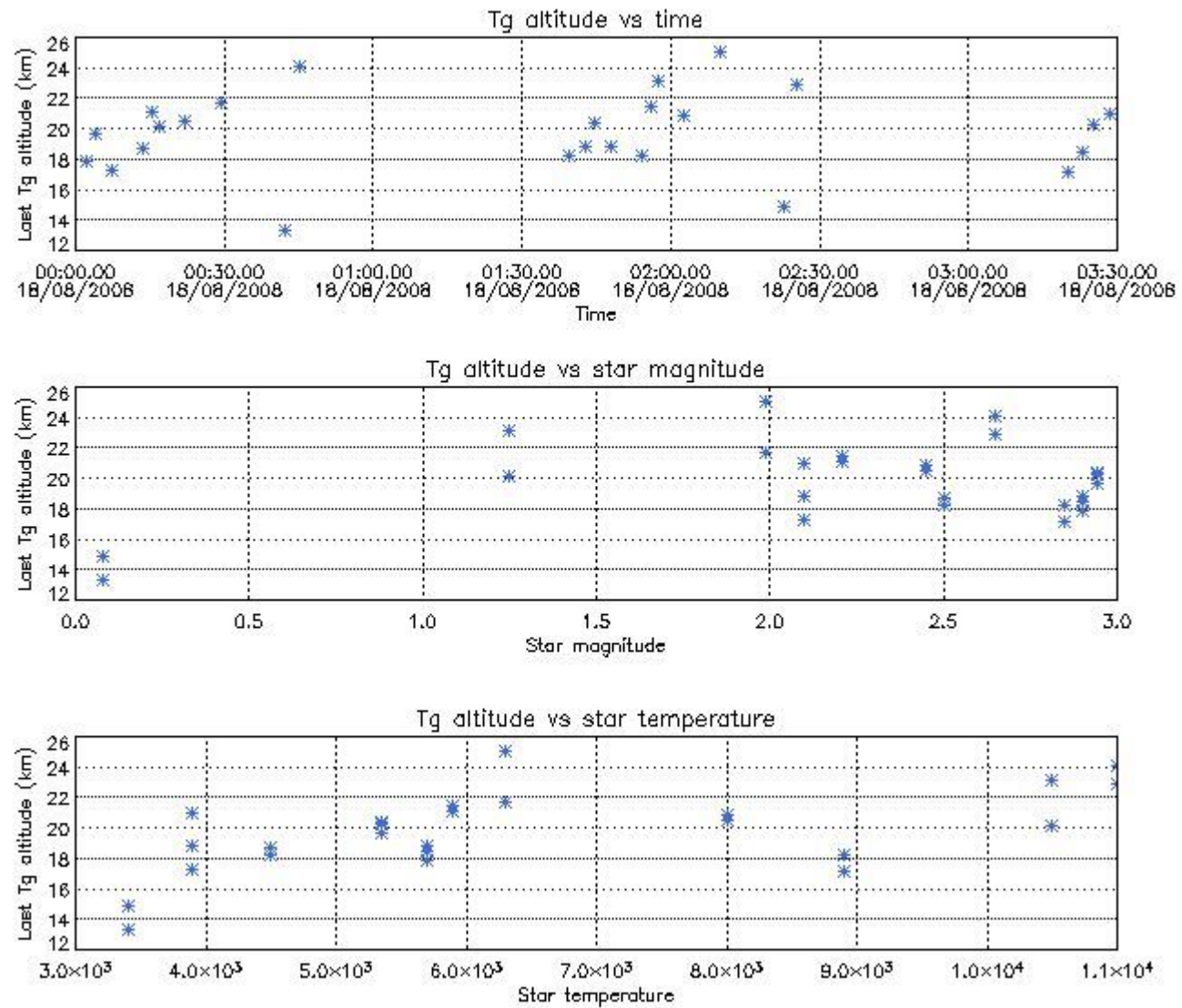
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

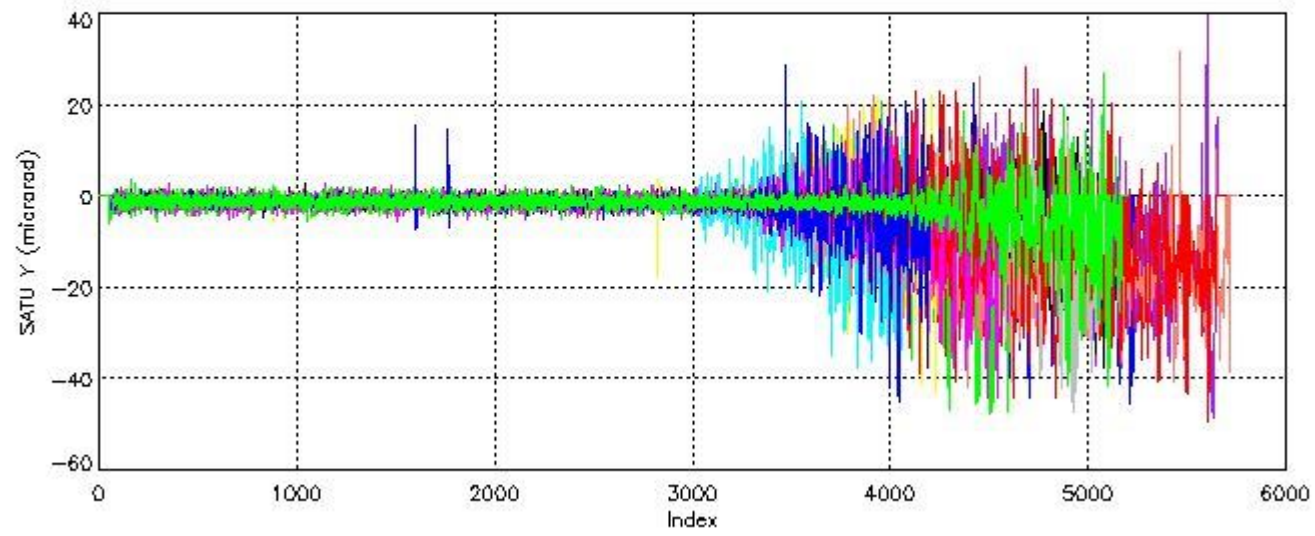
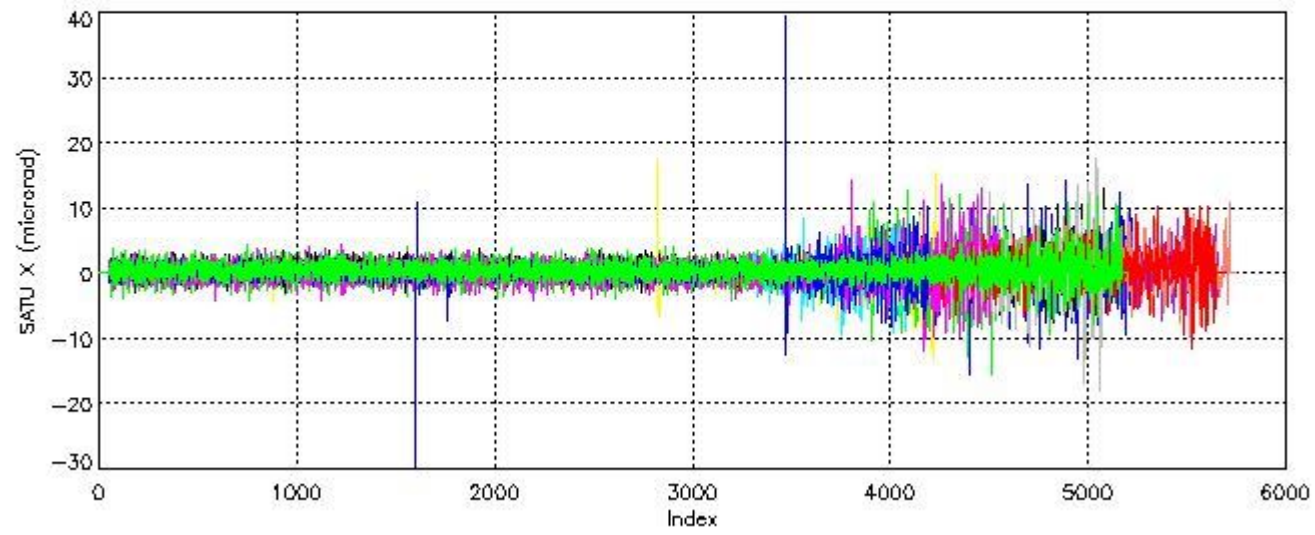


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.26564	-1.1508	0.23990	-1.2670
St. deviation:	0.59080	0.68500	0.66997	0.74750
Maximum:	4.5000	3.5000	4.5000	2.6000
Minimum:	-4.4000	-6.1000	-3.7000	-5.0000

Number of data:	13850.	13850.	22800.	22800.
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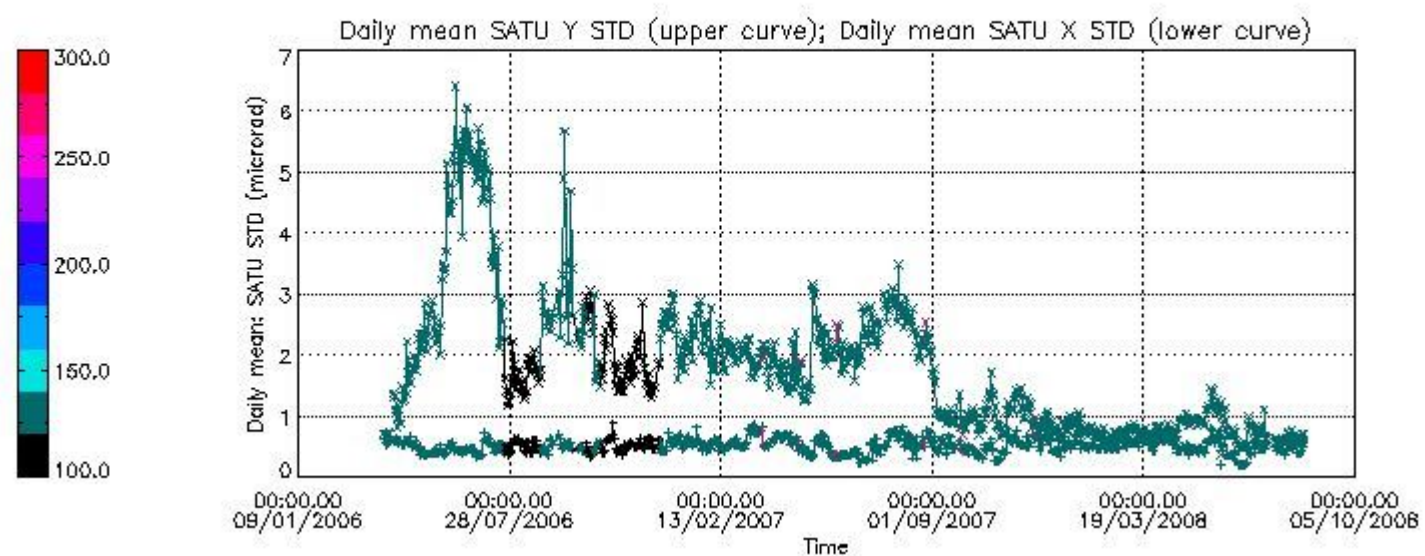
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

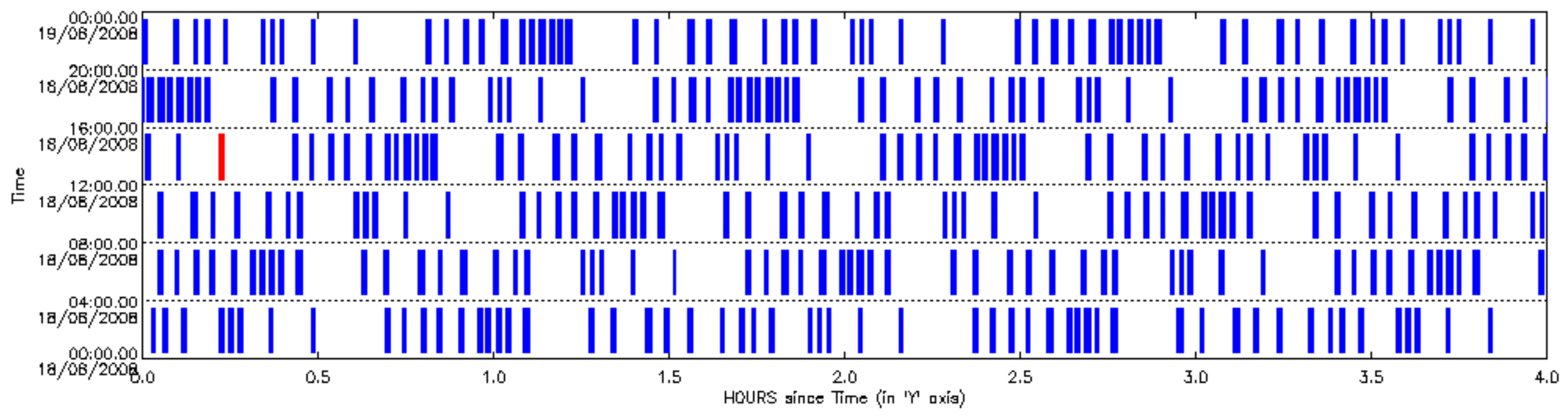


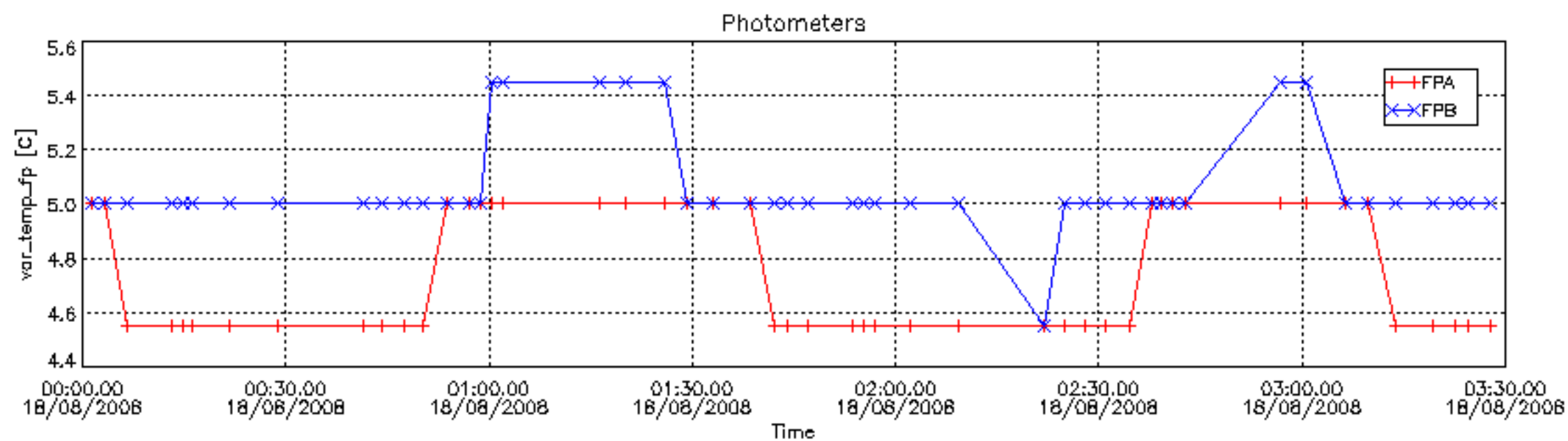
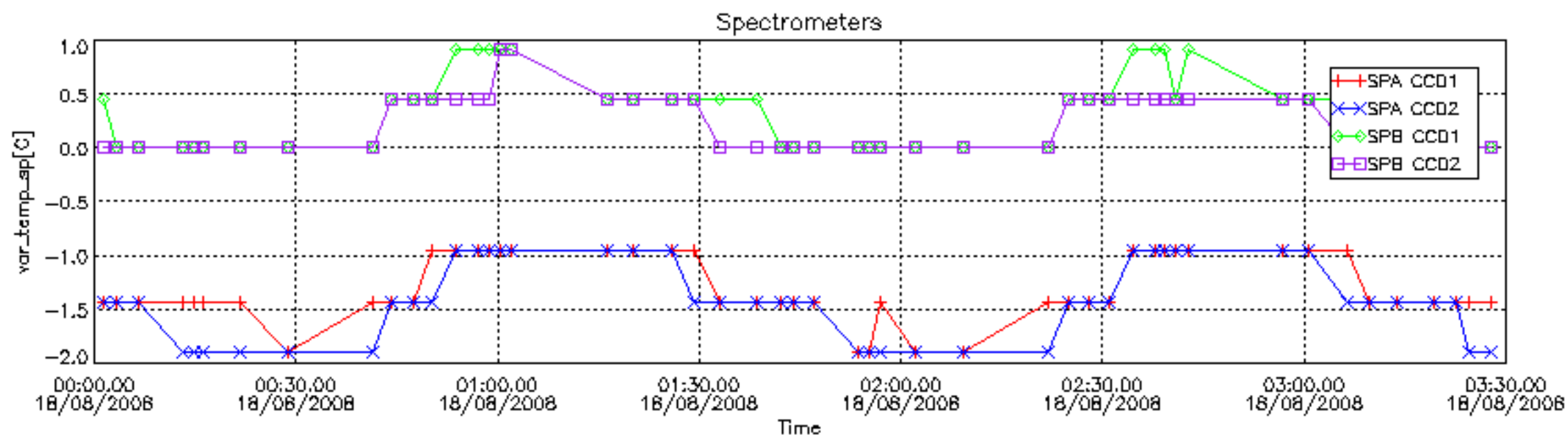
### 8. Auxiliary Data Files used for the production reported in section 2.4

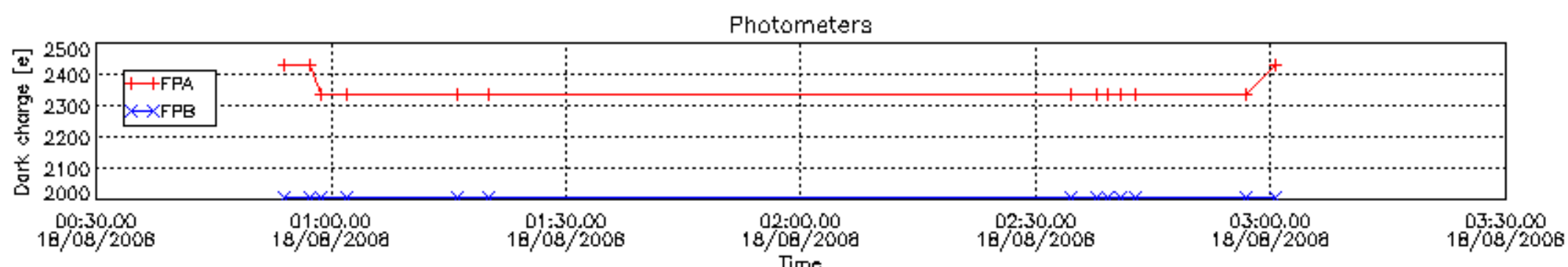
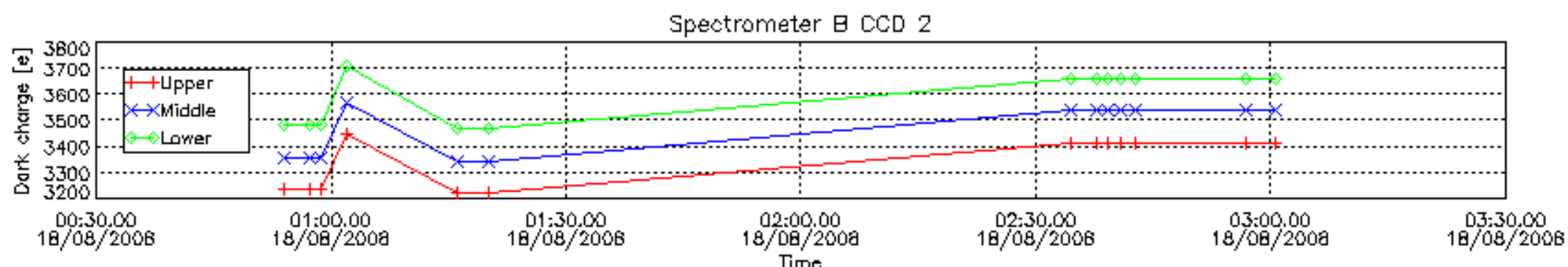
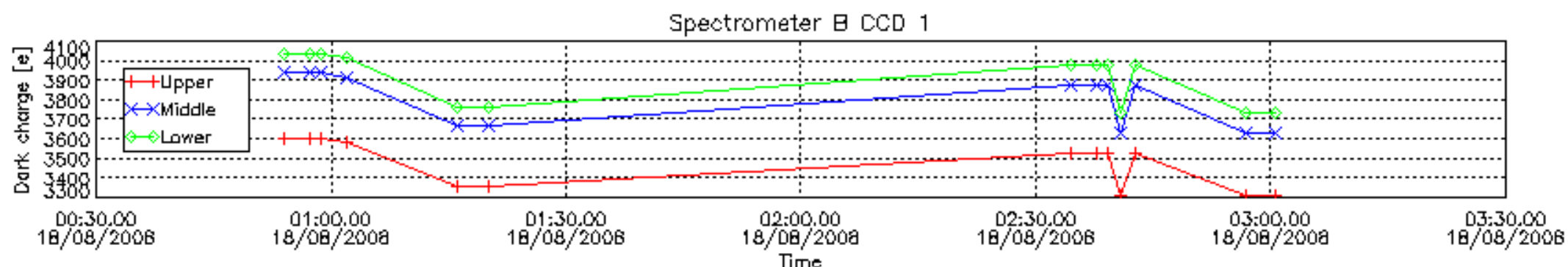
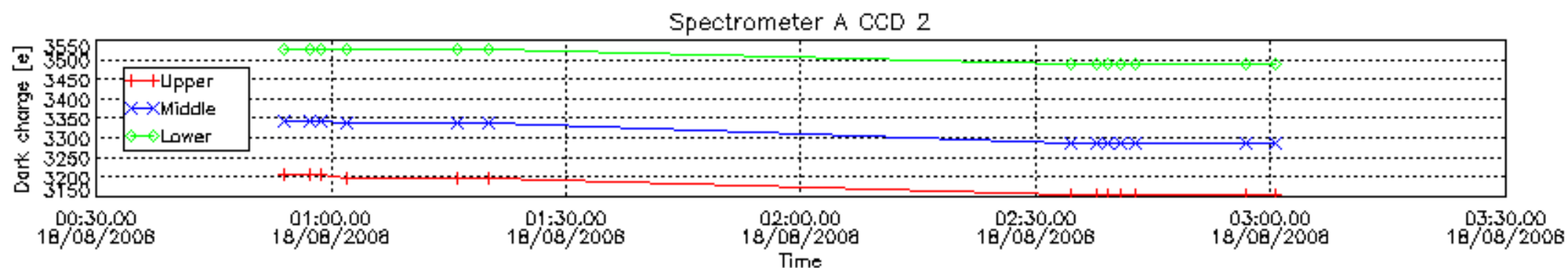
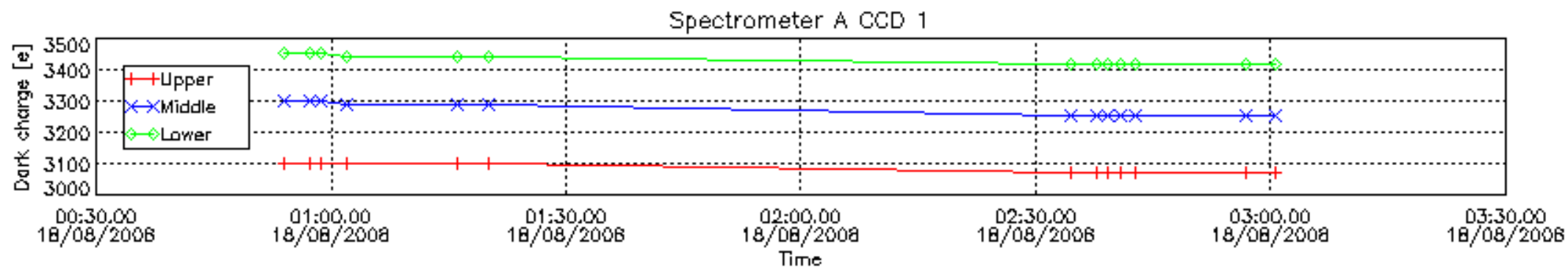
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	18-AUG-2008 00:01:28
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080811_100211_20080809_000000_20100101_000000	1	18-AUG-2008 00:01:28
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	18-AUG-2008 00:01:28
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-AUG-2008 00:01:28
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	18-AUG-2008 00:01:28
ECMWF_FILE	AUX_ECF_AXNECM20080817_072111_20080817_210000_20080818_090000	1	18-AUG-2008 00:01:28
OPTIONAL_ECMWF_FILE	MISSING	1	18-AUG-2008 00:01:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080817_213711_000057382071_00186_33807_6174.N1	1	18-AUG-2008 00:01:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080817_231808_000057382071_00187_33808_6175.N1	16	18-AUG-2008 01:00:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080818_005905_000041442071_00188_33809_6176.N1	32	18-AUG-2008 02:21:55

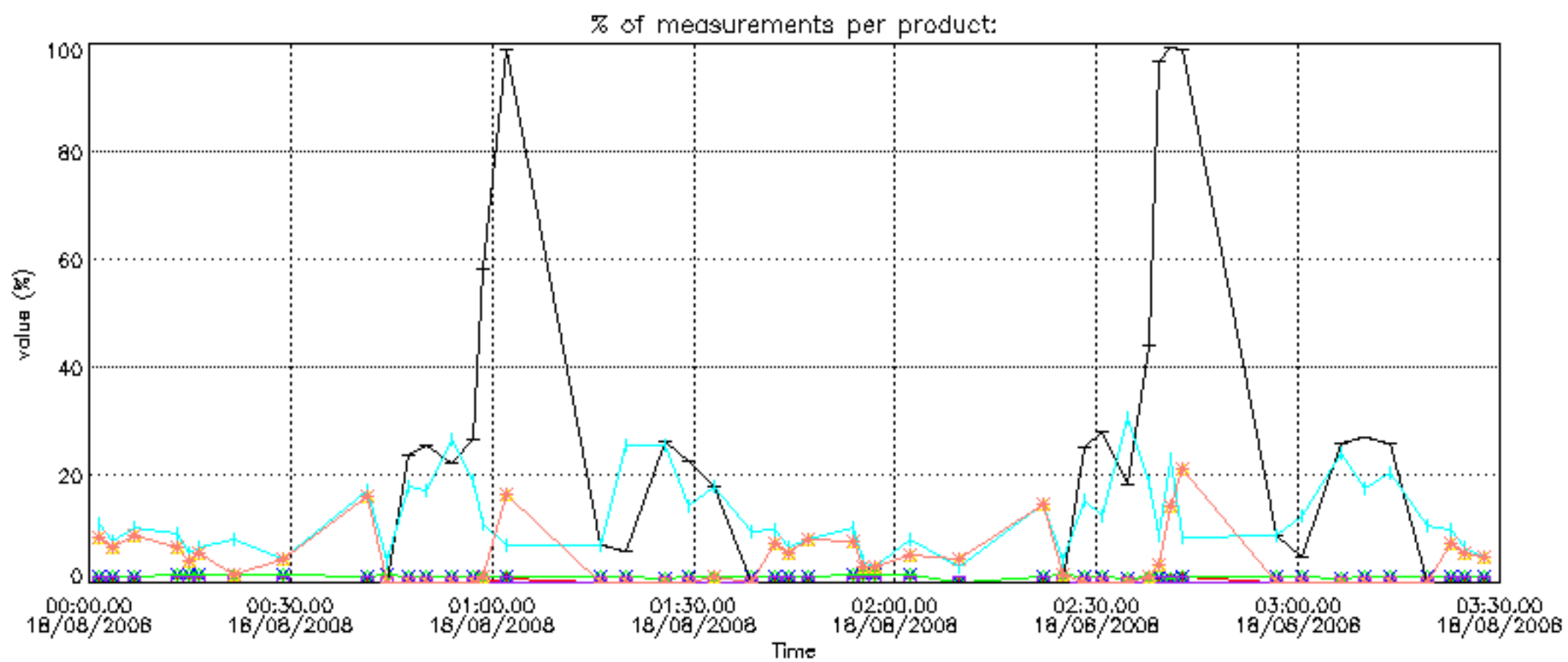
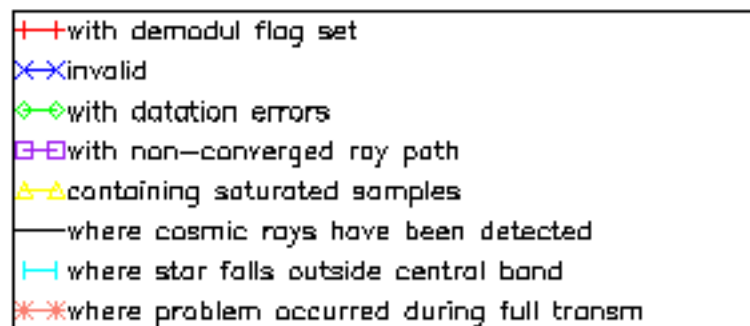




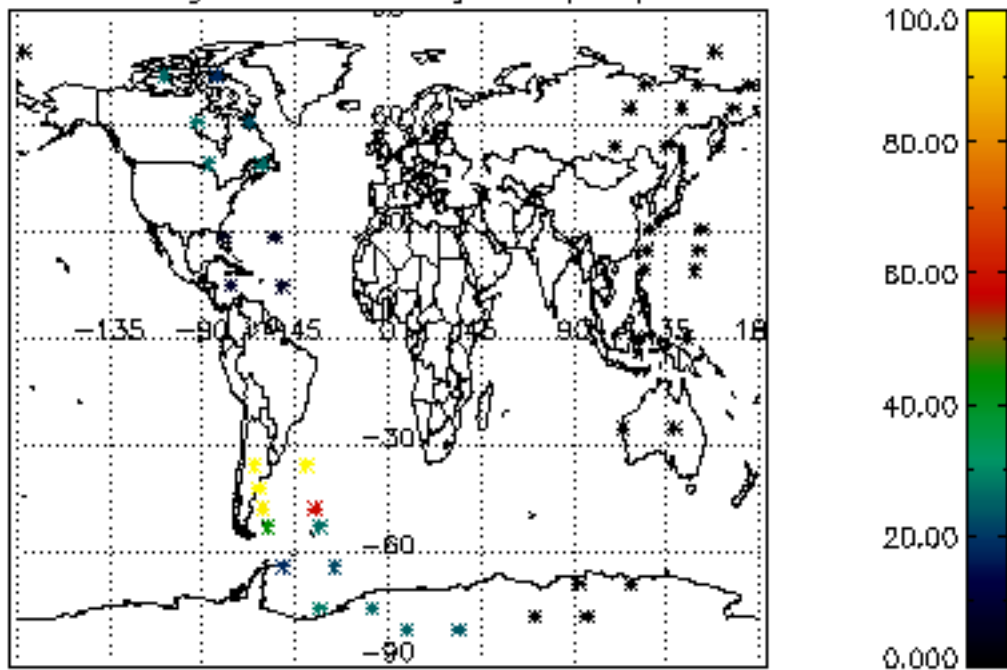




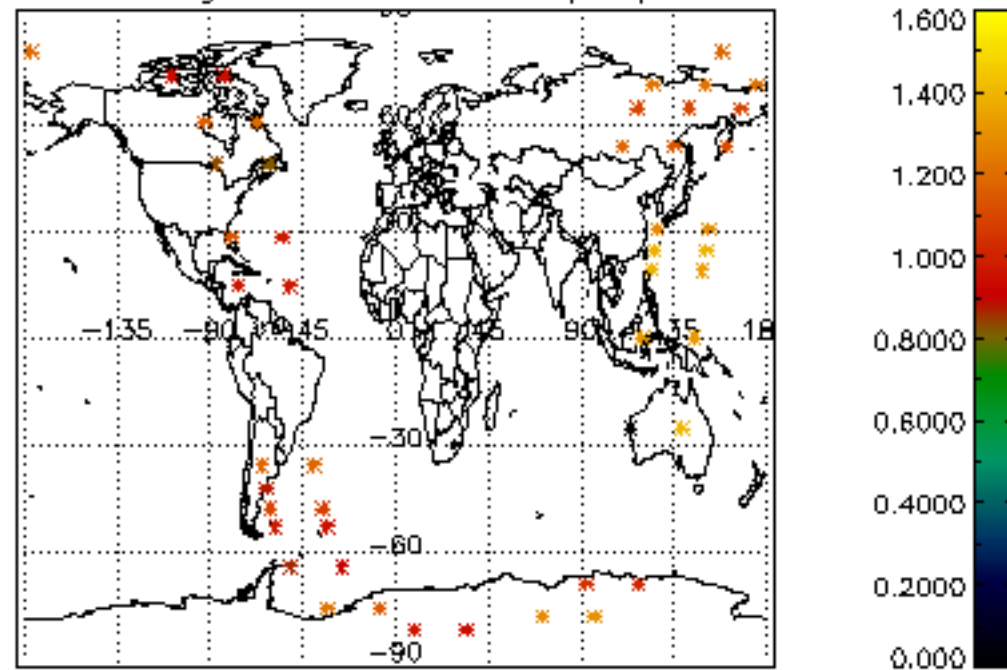




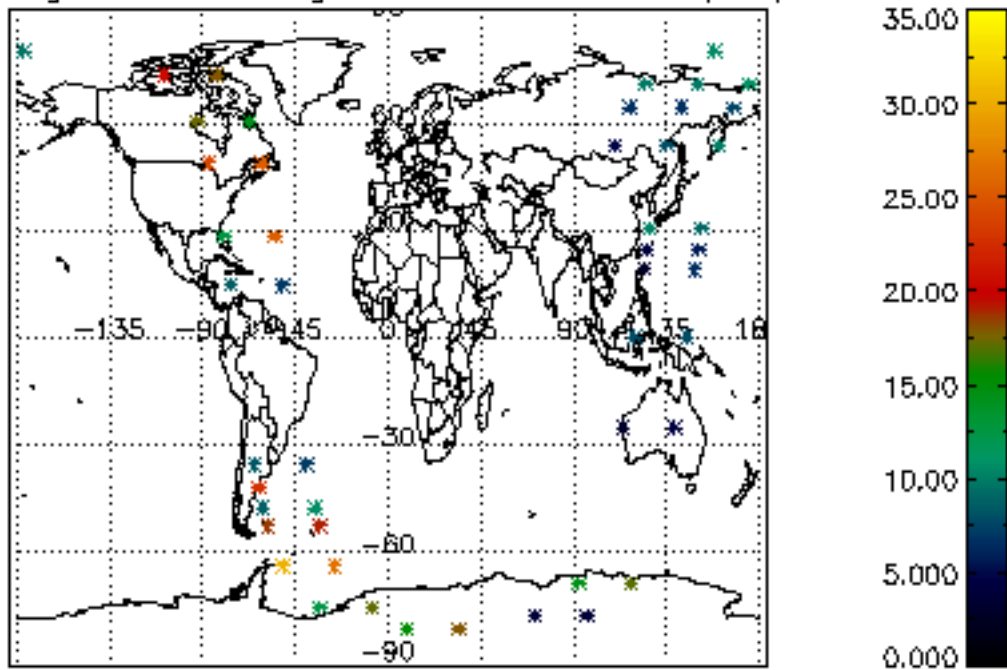
Percentage of cosmic ray hits per profile



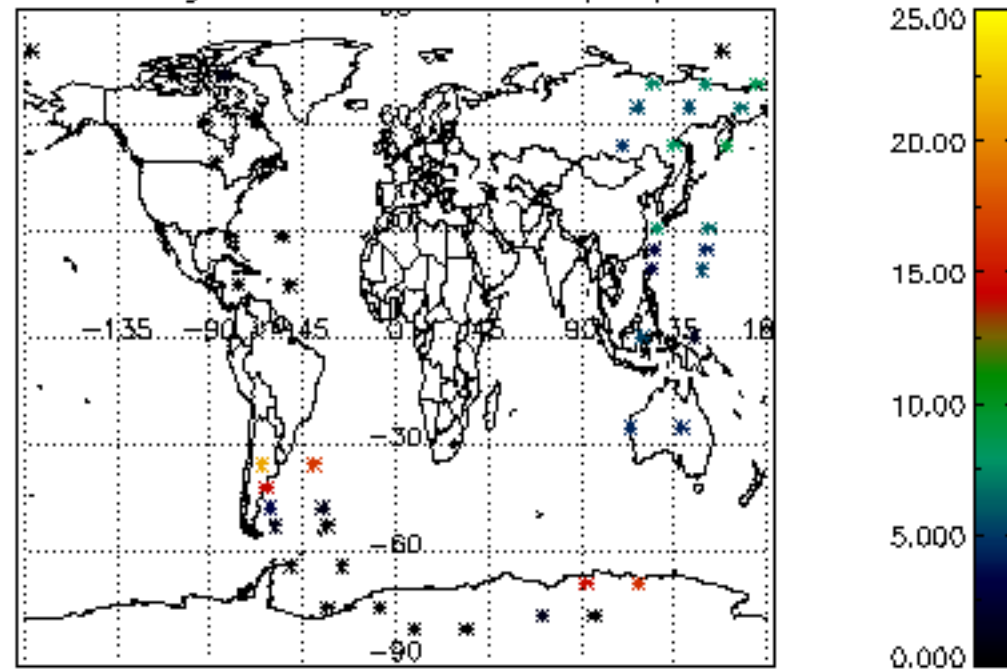
Percentage of datation errors per profile



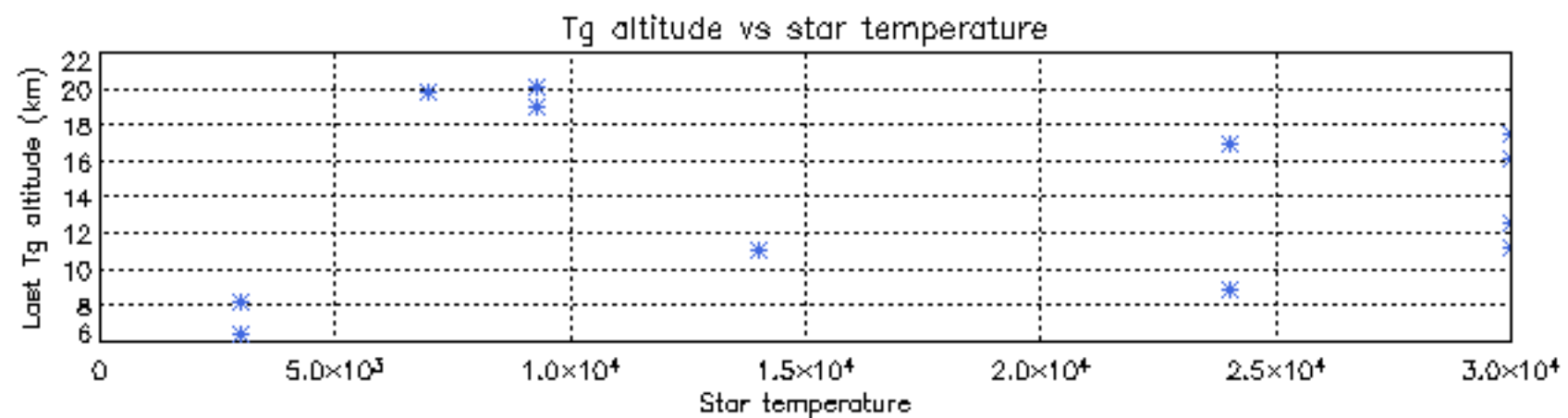
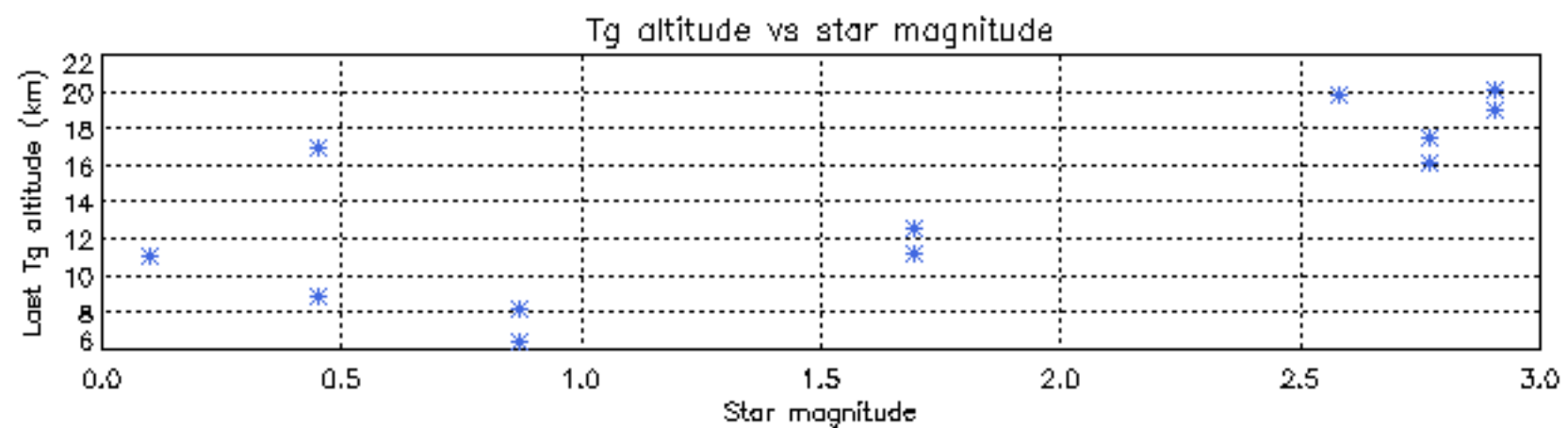
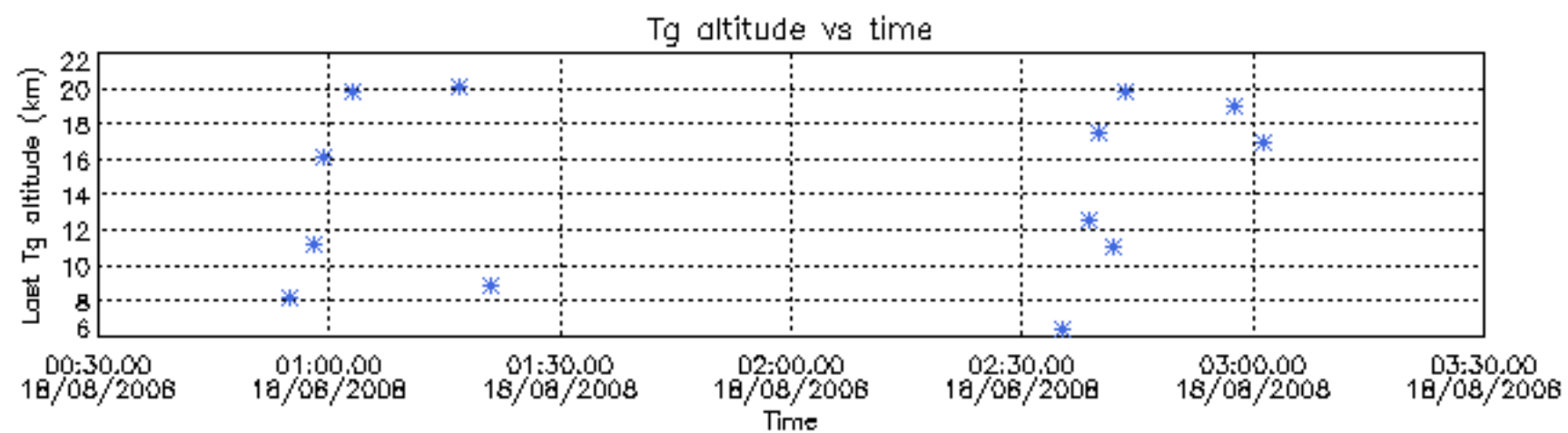
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

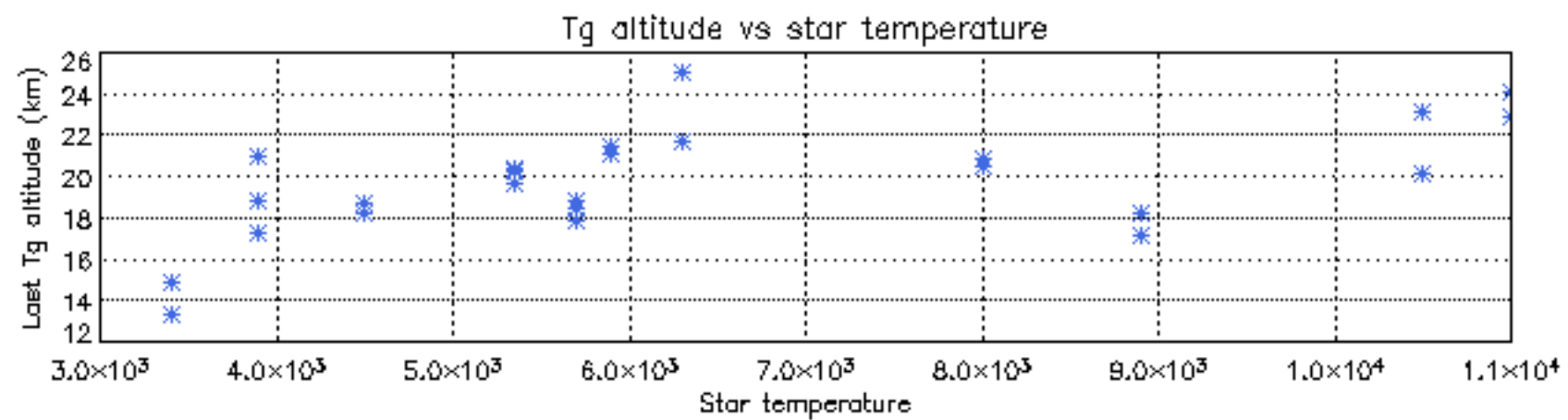
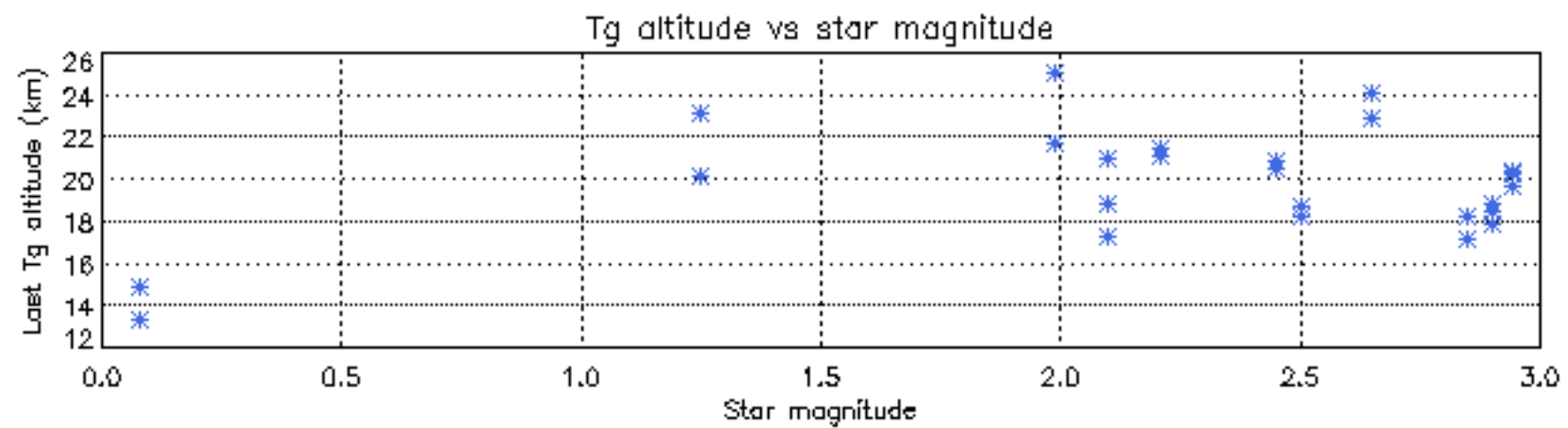
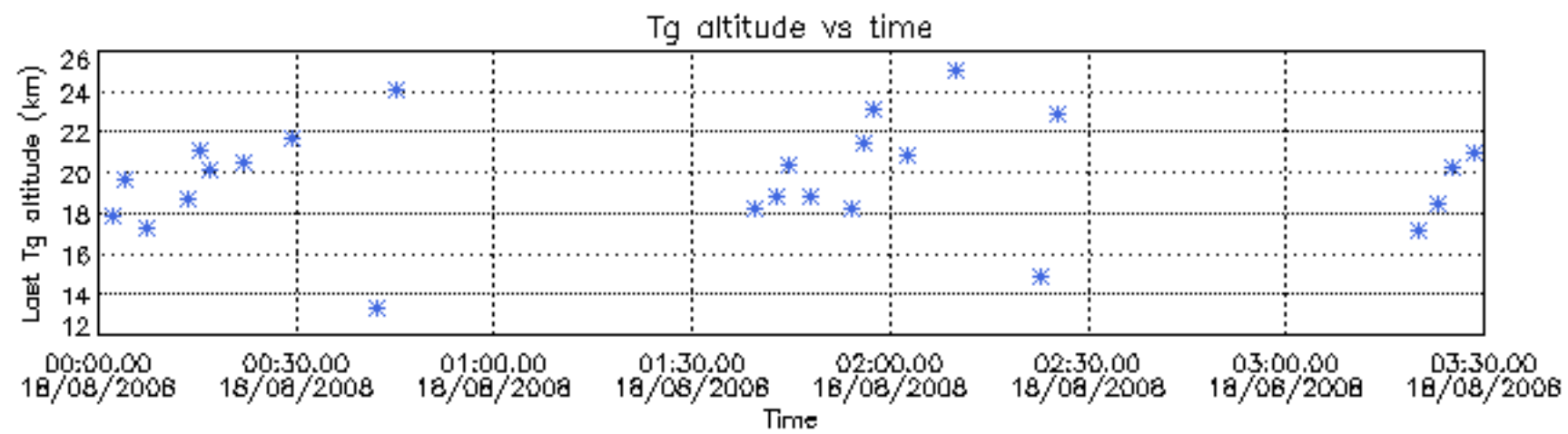


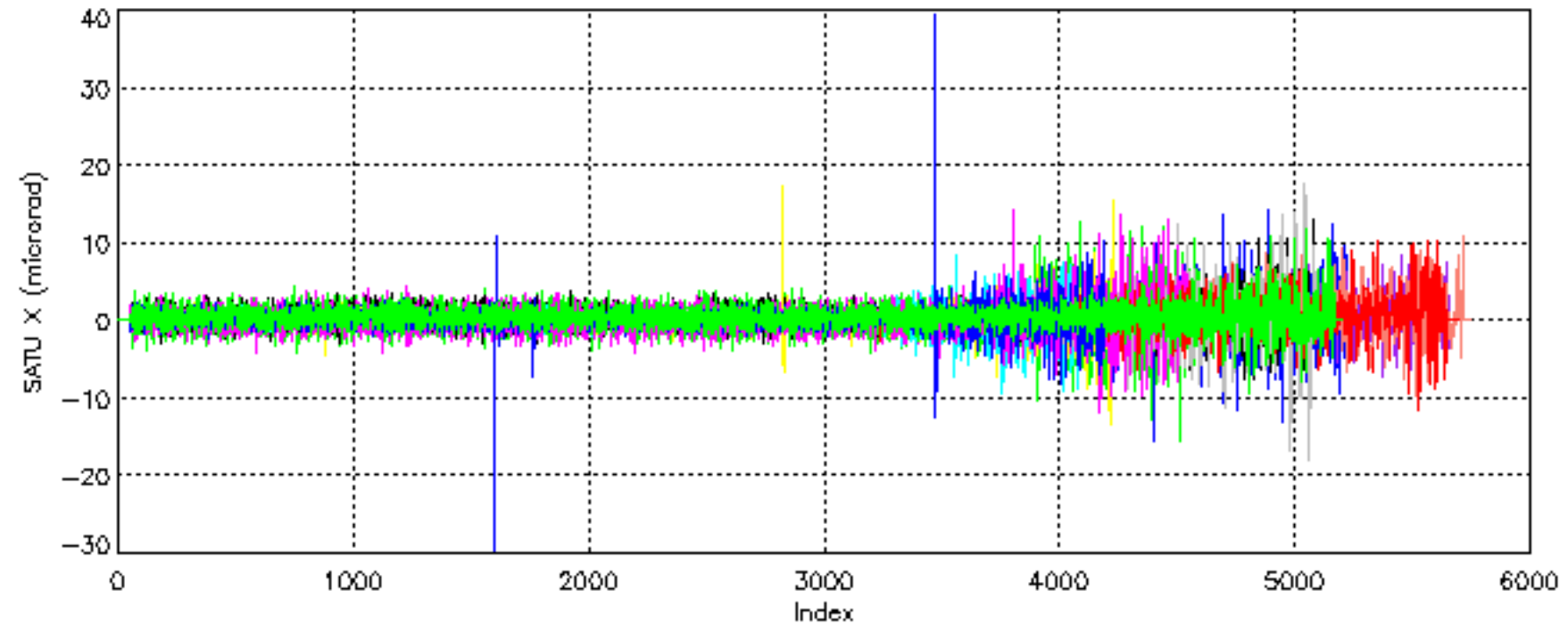
Tangent altitude at which the star is lost

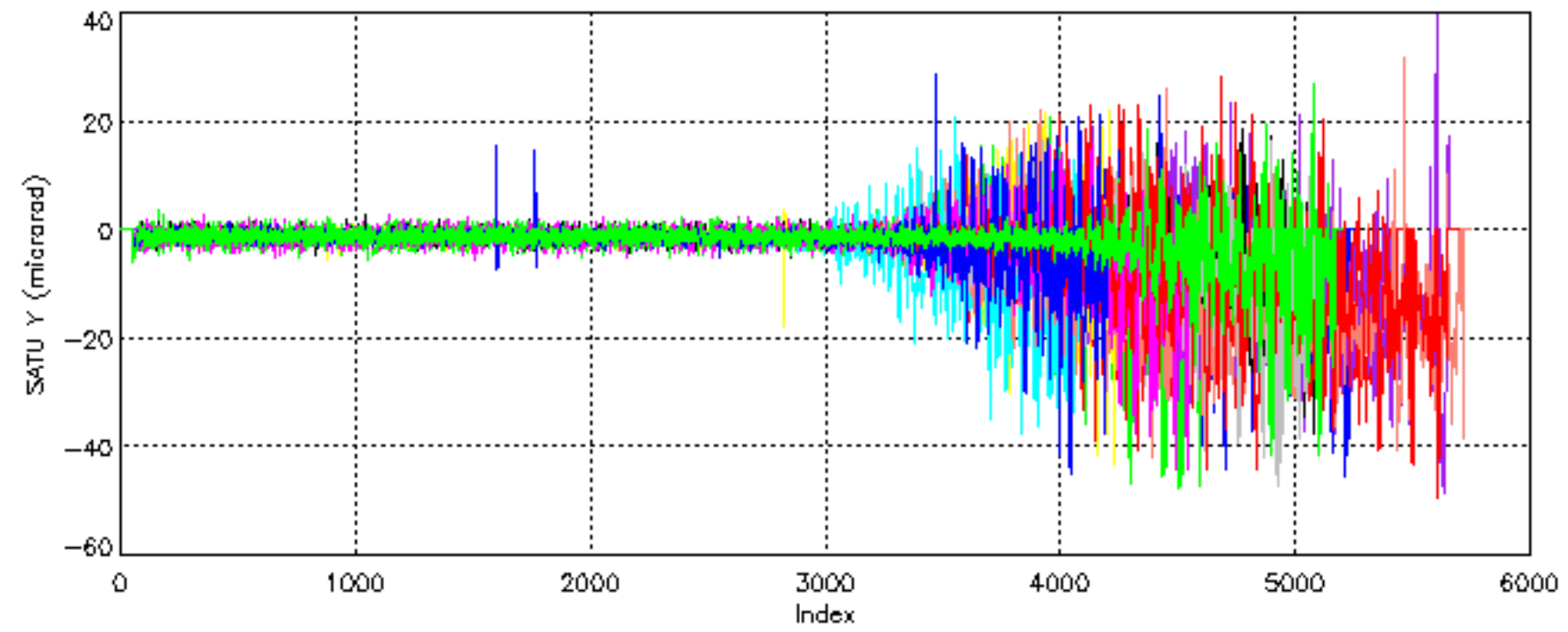




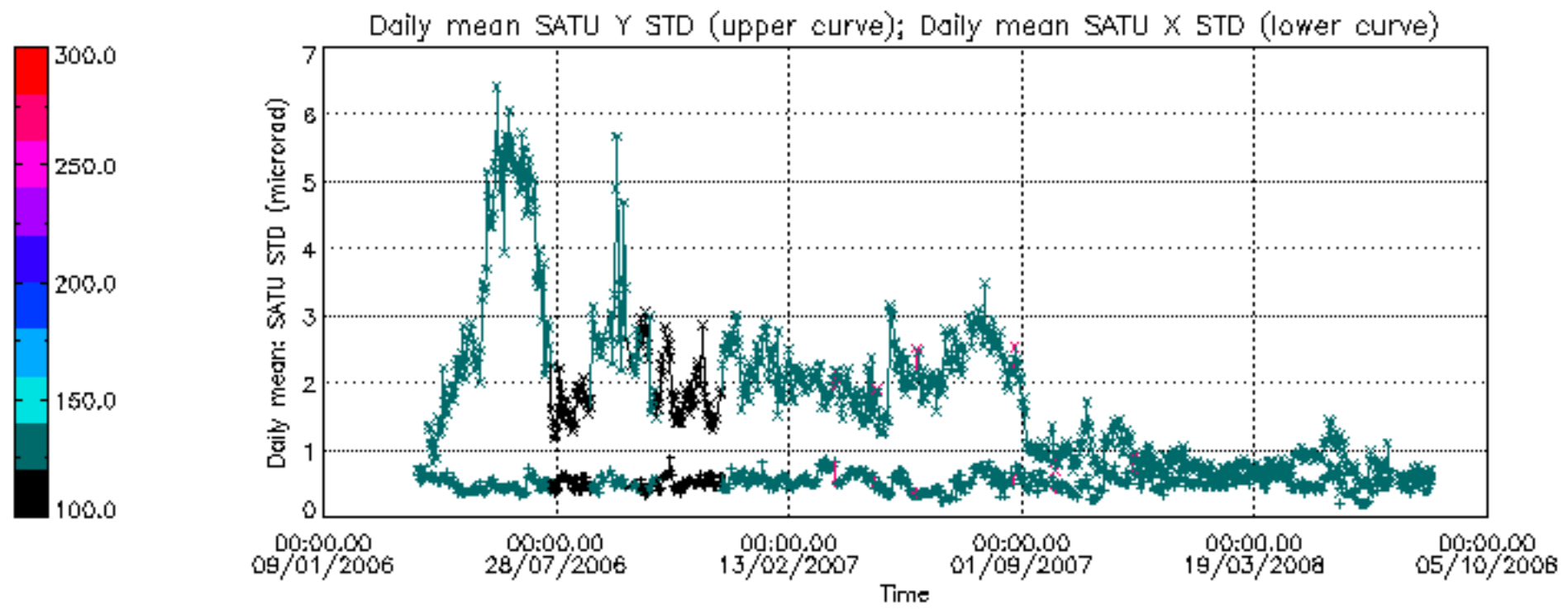
Tangent altitude at which the star is lost











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3; -299.3; 01-AUG-2008 01:41:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33566  
4; -19.6; 01-AUG-2008 01:46:16; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;33566  
5; 310.1; 01-AUG-2008 01:51:46; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33567  
6; 720.4; 01-AUG-2008 01:58:36; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33567  
7; 921.8; 01-AUG-2008 02:01:57; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;33567  
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10; 2145.3; 01-AUG-2008 02:22:21; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;33567  
11; 2570.2; 01-AUG-2008 02:29:26; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;33567  
12; 2694.1; 01-AUG-2008 02:31:30; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33567  
13; 3089.3; 01-AUG-2008 02:38:05; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;33567  
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3; -1520.3; 01-AUG-2008 03:01:51; Dark ; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;33567  
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7; -860.8; 01-AUG-2008 03:12:51; Dark ; 51.0; 7; 19Bet Ori ; 0.10; 14000;occ; 102; 0;33567  
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13; 922.4; 01-AUG-2008 03:42:34; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;33568  
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9; 4348.4; 01-AUG-2008 21:25:39; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;33578  
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12; 721.8; 01-AUG-2008 07:00:25; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;33570
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13; 5256.2; 12-AUG-2008 17:33:35; Dark ; 36.5; 1; 9Alp CMA ; -1.44; 11000;occ; 73; 0;33733
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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  
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3; 2598.6; 15-AUG-2008 13:33:50; Bright; 34.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 68; 0;33774
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9; 5268.3; 15-AUG-2008 14:18:20; Dark ; 41.0; 1; 9Alp CMa ; -1.44; 11000;occ; 82; 0;33774
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12; 5614.4; 15-AUG-2008 14:24:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33774
13; 5863.3; 15-AUG-2008 14:28:15; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;33774
14; 6489.9; 15-AUG-2008 14:38:41; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;33774
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3; 2598.5; 15-AUG-2008 15:14:26; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33775
4; 2675.1; 15-AUG-2008 15:15:43; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;33775
5; 3017.3; 15-AUG-2008 15:21:25; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33775
6; 3438.2; 15-AUG-2008 15:28:26; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;33775
7; 4625.6; 15-AUG-2008 15:48:13; Dark ; 47.0; 151; 13Mu Gem ; 2.89; 3000;occ; 94; 0;33775
8; 4720.9; 15-AUG-2008 15:49:48; Dark ; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;33775
9; 5268.7; 15-AUG-2008 15:58:56; Dark ; 42.0; 1; 9Alp CMa ; -1.44; 11000;occ; 84; 0;33775
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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  
 10; 5269.0; 15-AUG-2008 17:39:32; Dark ; 45.5; 1; 9Alp CMa ; -1.44; 11000;occ; 91; 0;33776  
 11; 5615.2; 15-AUG-2008 17:45:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33776  
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 13; 6491.3; 15-AUG-2008 17:59:55; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33776  
 14; 6836.8; 15-AUG-2008 18:05:40; Dark ; 46.0; 148; Alp Tuc ; 2.88; 4100;occ; 92; 0;33776  
 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  
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 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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 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  
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 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  
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 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  
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 3; -730.4; 16-AUG-2008 02:03:09; Dark ; 56.0; 7; 19Bet Ori ; 0.10; 14000;occ; 112; 0;33781  
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 9; 1016.2; 16-AUG-2008 02:32:15; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 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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13; 5146.6; 18-AUG-2008 09:20:15; Dark ; 50.5; 30; 46Eps Ori ; 1.69; 30000;occ; 101; 0;33814
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 11; 4731.1; 18-AUG-2008 10:53:56; Dark ; 41.0; 44; 24Gam Gem ; 1.93; 11000;occ; 82; 0;33815  
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 5; 2594.7; 18-AUG-2008 11:58:55; Bright; 35.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 70; 0;33816  
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 21; 4565.2; 19-AUG-2008 23:44:20; Dark ; 50.0; 28; 12Bet Tau ; 1.65; 15200;occ; 100; 0;33837  
 22; 4737.0; 19-AUG-2008 23:47:12; Dark ; 42.0; 44; 24Gam Gem ; 1.93; 11000;occ; 84; 0;33837  
 23; 4959.6; 19-AUG-2008 23:50:54; Dark ; 61.5; 14; 58Alp Ori ; 0.87; 3000;occ; 123; 0;33837  
 24; 5045.1; 19-AUG-2008 23:52:20; Dark ; 54.0; 27; 24Gam Ori ; 1.64; 26000;occ; 108; 0;33837  
 25; 5162.3; 19-AUG-2008 23:54:17; Dark ; 52.5; 30; 46Eps Ori ; 1.69; 30000;occ; 105; 0;33837  
 26; 5290.4; 19-AUG-2008 23:56:25; Dark ; 48.5; 1; 9Alp CMA ;-1.44; 11000;occ; 97; 0;33837

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1; -577.9; 19-AUG-2008 23:59:13; Dark ; 44.5; 101; 11Alp Lep ; 2.58; 7000;occ; 89; 0;33837  
 2; -404.5; 20-AUG-2008 00:02:06; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;33837  
 3; 280.9; 20-AUG-2008 00:13:31; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;33838  
 4; 496.6; 20-AUG-2008 00:17:07; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;33838  
 5; 848.3; 20-AUG-2008 00:22:59; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;33838  
 6; 1035.9; 20-AUG-2008 00:26:06; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;33838  
 7; 1275.6; 20-AUG-2008 00:30:06; Dark ; 53.0; 18; 24Alp PsA ; 1.17; 9700;occ; 106; 0;33838  
 8; 1598.5; 20-AUG-2008 00:35:29; Bright; 43.0; 142; 49Del Cap ; 2.85; 8900;occ; 86; 0;33838  
 9; 1799.4; 20-AUG-2008 00:38:50; Bright; 40.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 80; 0;33838  
 10; 1910.6; 20-AUG-2008 00:40:41; Bright; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;33838  
 11; 2097.8; 20-AUG-2008 00:43:48; Bright; 40.0; 61; 8Eps Peg ; 2.10; 3900;occ; 80; 0;33838  
 12; 2493.1; 20-AUG-2008 00:50:24; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;33838  
 13; 2593.4; 20-AUG-2008 00:52:04; Bright; 35.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 71; 0;33838  
 14; 2685.3; 20-AUG-2008 00:53:36; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;33838  
 15; 3002.0; 20-AUG-2008 00:58:53; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33838  
 16; 3437.1; 20-AUG-2008 01:06:08; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33838  
 17; 4187.4; 20-AUG-2008 01:18:38; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;33838  
 18; 4371.3; 20-AUG-2008 01:21:42; Bright; 49.0; 107; 37The Aur ; 2.65; 11000;occ; 98; 0;33838  
 19; 4565.5; 20-AUG-2008 01:24:56; Dark ; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;33838  
 20; 4640.2; 20-AUG-2008 01:26:11; Dark ; 49.5; 151; 13Mu Gem ; 2.89; 3000;occ; 99; 0;33838  
 21; 4737.2; 20-AUG-2008 01:27:48; Dark ; 42.0; 44; 24Gam Gem ; 1.93; 11000;occ; 84; 0;33838  
 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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1; -1847.2; 19-AUG-2008 06:52:04; Bright; 52.0; 6; 13Alp Aur ; 0.08; 3400;occ; 104; 0;33827  
 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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1;	1618.0;	19-AUG-2008	12:51:37;	Bright;	41.5;	142;	49Del Cap	; 2.85;	8900;occ;	83;	40;33831
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
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