

# GOMOS Daily Report 29-OCT-2007

## Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	31OCT2007 05:43:39
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (29OCT2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (30OCT2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

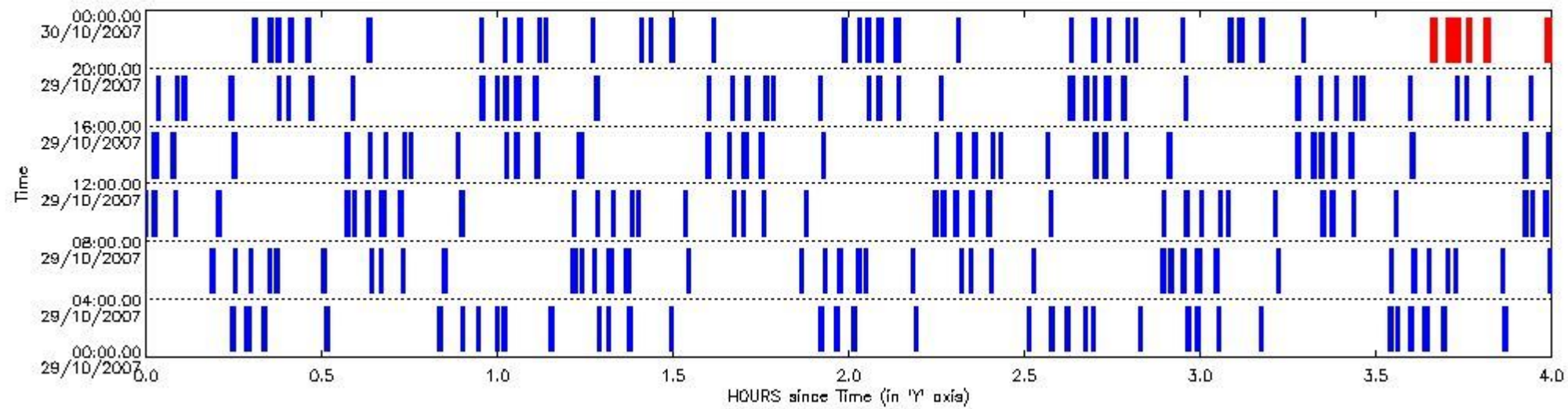
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

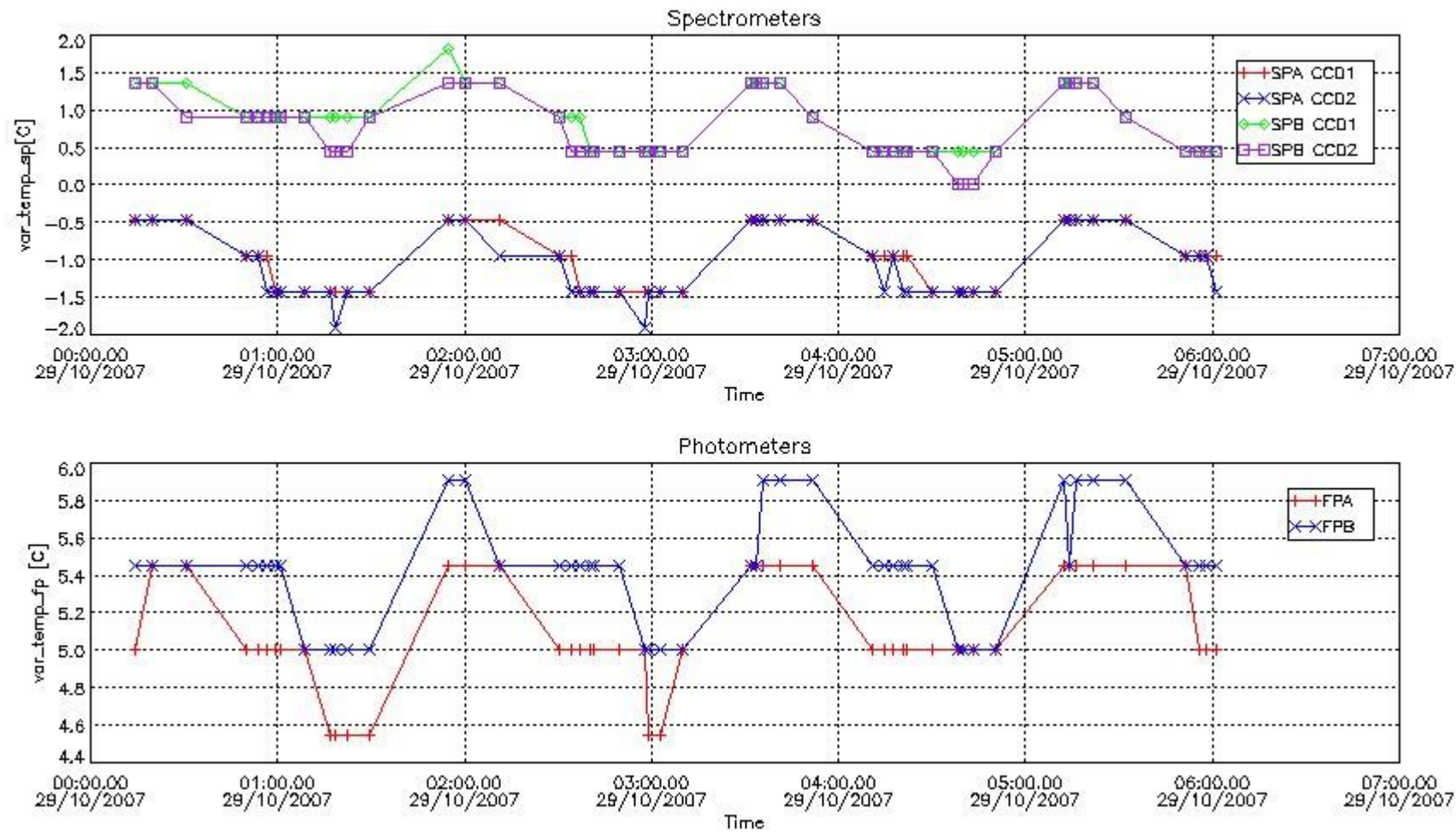
UTC start time	Star name	Star ID	Orbit
29-OCT-2007 23:39:16	LamVel	65	29614
29-OCT-2007 23:41:57	DelVel	46	29615
29-OCT-2007 23:43:21	EpsCar	41	29615
29-OCT-2007 23:45:19	DSA1055	0	29615
29-OCT-2007 23:48:22	AlpCar	2	29615
29-OCT-2007 23:58:54	The1Eri	157	29615

### 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_1PNPDE20071029_001417_000000452062_00489_29601_3733.N1	29-OCT-2007 00:14:17	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	29601	No
2	GOM_TRA_1PNPDE20071029_001950_000000482062_00489_29601_3734.N1	29-OCT-2007 00:19:50	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	29601	No
3	GOM_TRA_1PNPDE20071029_003029_000000422062_00489_29601_3735.N1	29-OCT-2007 00:30:29	Straylight	41.500	157	The1Eri	2.9060	9300.0	83	29601	No
4	GOM_TRA_1PNPDE20071029_004948_000000412062_00489_29601_3736.N1	29-OCT-2007 00:49:48	Bright	41.000	105	6Bet Ari	2.6450	8900.0	82	29601	No
5	GOM_TRA_1PNPDE20071029_005343_000000402062_00489_29601_3737.N1	29-OCT-2007 00:53:43	Bright	40.000	53	43Bet And	2.0480	3300.0	80	29601	No

6	GOM_TRA_1PNPDE20071029_005622_000000402062_00489_29601_3738.N1	29-OCT-2007 00:56:22	Bright	40.000	73	57Gam1And	2.2600	13100.	80	29601	No
7	GOM_TRA_1PNPDE20071029_005933_000000362062_00489_29601_3739.N1	29-OCT-2007 00:59:33	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	29601	No
8	GOM_TRA_1PNPDE20071029_010046_000000372062_00489_29601_3740.N1	29-OCT-2007 01:00:46	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	29601	No
9	GOM_TRA_1PNPDE20071029_010849_000000372062_00489_29601_3741.N1	29-OCT-2007 01:08:49	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	29601	No
10	GOM_TRA_1PNPDE20071029_011701_000000392062_00489_29601_3742.N1	29-OCT-2007 01:17:01	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	29601	No
11	GOM_TRA_1PNPDE20071029_011837_000000372062_00489_29601_3743.N1	29-OCT-2007 01:18:37	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	29601	No
12	GOM_TRA_1PNPDE20071029_012214_000000362062_00489_29601_3744.N1	29-OCT-2007 01:22:14	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	29601	No
13	GOM_TRA_1PNPDE20071029_012926_000000362062_00489_29601_3745.N1	29-OCT-2007 01:29:26	Bright	35.500	96	68Del Leo	2.5600	9300.0	71	29601	No
14	GOM_TRA_1PNPDE20071029_015454_000000442062_00490_29602_3872.N1	29-OCT-2007 01:54:54	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	29602	No
15	GOM_TRA_1PNPDE20071029_020027_000000492062_00490_29602_3873.N1	29-OCT-2007 02:00:27	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	29602	No
16	GOM_TRA_1PNPDE20071029_021105_000000412062_00490_29602_3874.N1	29-OCT-2007 02:11:05	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	29602	No
17	GOM_TRA_1PNPDE20071029_023024_000000402062_00490_29602_3875.N1	29-OCT-2007 02:30:24	Bright	40.000	105	6Bet Ari	2.6450	8900.0	80	29602	No
18	GOM_TRA_1PNPDE20071029_023418_000000372062_00490_29602_3876.N1	29-OCT-2007 02:34:18	Bright	37.000	53	43Bet And	2.0480	3300.0	74	29602	No
19	GOM_TRA_1PNPDE20071029_023657_000000412062_00490_29602_3877.N1	29-OCT-2007 02:36:57	Bright	41.000	73	57Gam1And	2.2600	13100.	82	29602	No
20	GOM_TRA_1PNPDE20071029_024009_000000342062_00490_29602_3878.N1	29-OCT-2007 02:40:09	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	29602	No
21	GOM_TRA_1PNPDE20071029_024122_000000352062_00490_29602_3879.N1	29-OCT-2007 02:41:22	Bright	35.000	76	27Gam Cas	2.3000	30000.	70	29602	No
22	GOM_TRA_1PNPDE20071029_024925_000000322062_00490_29602_3880.N1	29-OCT-2007 02:49:25	Bright	31.500	49	1Alp UMi	1.9900	6300.0	63	29602	No
23	GOM_TRA_1PNPDE20071029_025737_000000392062_00490_29602_4038.N1	29-OCT-2007 02:57:37	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	29602	No
24	GOM_TRA_1PNPDE20071029_025913_000000352062_00490_29602_4039.N1	29-OCT-2007 02:59:13	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	29602	No
25	GOM_TRA_1PNPDE20071029_030250_000000382062_00490_29602_4040.N1	29-OCT-2007 03:02:50	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	29602	No
26	GOM_TRA_1PNPDE20071029_031002_000000362062_00490_29602_4041.N1	29-OCT-2007 03:10:02	Bright	36.000	96	68Del Leo	2.5600	9300.0	72	29602	No
27	GOM_TRA_1PNPDE20071029_033157_000000472062_00490_29602_4042.N1	29-OCT-2007 03:31:57	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	29602	No
28	GOM_TRA_1PNPDE20071029_033323_000000382062_00491_29603_4043.N1	29-OCT-2007 03:33:23	Dark	38.000	91	Kap Vel	2.4900	26000.	76	29603	No
29	GOM_TRA_1PNPDE20071029_033531_000000452062_00491_29603_4044.N1	29-OCT-2007 03:35:31	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	29603	No
30	GOM_TRA_1PNPDE20071029_034104_000000472062_00491_29603_4045.N1	29-OCT-2007 03:41:04	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	29603	No
31	GOM_TRA_1PNPDE20071029_035141_000000432062_00491_29603_4046.N1	29-OCT-2007 03:51:41	Straylight	43.000	157	The1Eri	2.9060	9300.0	86	29603	No
32	GOM_TRA_1PNPDE20071029_041100_000000402062_00491_29603_4047.N1	29-OCT-2007 04:11:00	Bright	39.500	105	6Bet Ari	2.6450	8900.0	79	29603	No
33	GOM_TRA_1PNPDE20071029_041454_000000372062_00491_29603_4048.N1	29-OCT-2007 04:14:54	Bright	36.500	53	43Bet And	2.0480	3300.0	73	29603	No
34	GOM_TRA_1PNPDE20071029_041733_000000402062_00491_29603_4049.N1	29-OCT-2007 04:17:33	Bright	40.000	73	57Gam1And	2.2600	13100.	80	29603	No
35	GOM_TRA_1PNPDE20071029_042045_000000372062_00491_29603_4050.N1	29-OCT-2007 04:20:45	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	29603	No
36	GOM_TRA_1PNPDE20071029_042158_000000372062_00491_29603_4051.N1	29-OCT-2007 04:21:58	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	29603	No
37	GOM_TRA_1PNPDE20071029_043001_000000342062_00491_29603_4052.N1	29-OCT-2007 04:30:01	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	29603	No
38	GOM_TRA_1PNPDE20071029_043813_000000392062_00491_29603_4191.N1	29-OCT-2007 04:38:13	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	29603	No
39	GOM_TRA_1PNPDE20071029_043948_000000392062_00491_29603_4192.N1	29-OCT-2007 04:39:48	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	29603	No
40	GOM_TRA_1PNPDE20071029_044325_000000382062_00491_29603_4193.N1	29-OCT-2007 04:43:25	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	29603	No
41	GOM_TRA_1PNPDE20071029_045038_000000372062_00491_29603_4194.N1	29-OCT-2007 04:50:38	Bright	37.000	96	68Del Leo	2.5600	9300.0	74	29603	No
42	GOM_TRA_1PNPDE20071029_051234_000000562062_00491_29603_4195.N1	29-OCT-2007 05:12:34	Dark	55.500	65	Lam Vel	2.2040	4400.0	111	29603	No
43	GOM_TRA_1PNPDE20071029_051400_000000382062_00492_29604_4196.N1	29-OCT-2007 05:14:00	Dark	38.000	91	Kap Vel	2.4900	26000.	76	29604	No
44	GOM_TRA_1PNPDE20071029_051608_000000452062_00492_29604_4197.N1	29-OCT-2007 05:16:08	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	29604	No
45	GOM_TRA_1PNPDE20071029_052141_000000632062_00492_29604_4198.N1	29-OCT-2007 05:21:41	Dark	63.000	2	Alp Car	-0.73600	7000.0	126	29604	No
46	GOM_TRA_1PNPDE20071029_053218_000000392062_00492_29604_4199.N1	29-OCT-2007 05:32:18	Straylight	39.000	157	The1Eri	2.9060	9300.0	78	29604	No
47	GOM_TRA_1PNPDE20071029_055135_000000402062_00492_29604_4200.N1	29-OCT-2007 05:51:35	Bright	39.500	105	6Bet Ari	2.6450	8900.0	79	29604	No
48	GOM_TRA_1PNPDE20071029_055530_000000382062_00492_29604_4201.N1	29-OCT-2007 05:55:30	Bright	38.000	53	43Bet And	2.0480	3300.0	76	29604	No
49	GOM_TRA_1PNPDE20071029_055809_000000422062_00492_29604_4202.N1	29-OCT-2007 05:58:09	Bright	41.500	73	57Gam1And	2.2600	13100.	83	29604	No
50	GOM_TRA_1PNPDE20071029_060121_000000372062_00492_29604_4203.N1	29-OCT-2007 06:01:21	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	29604	No

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



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

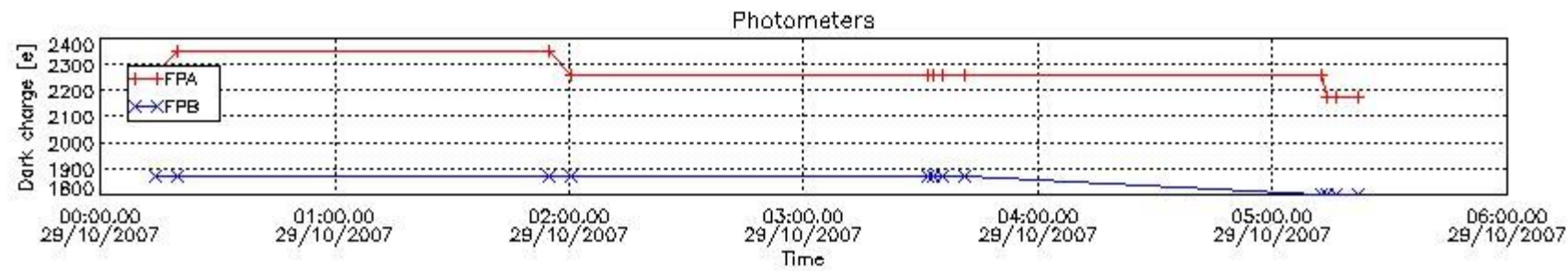
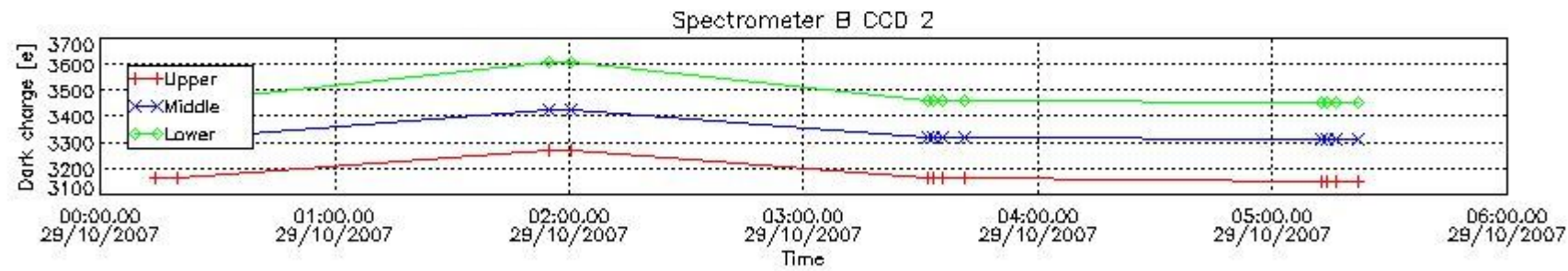
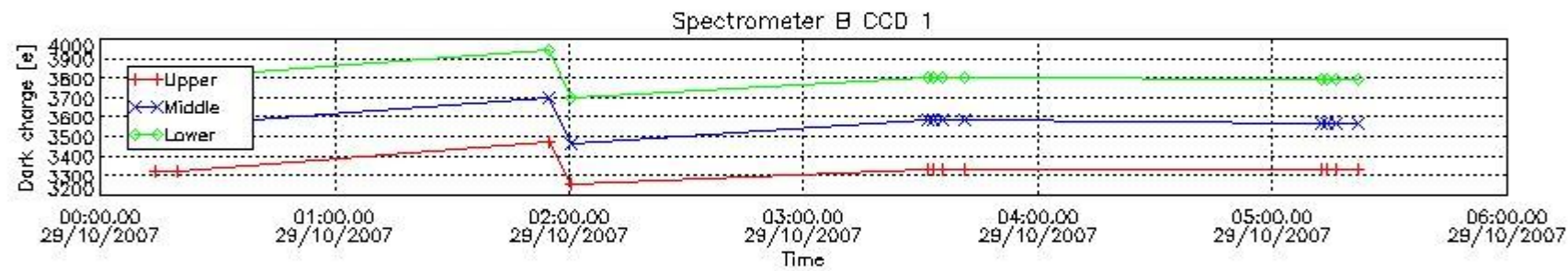
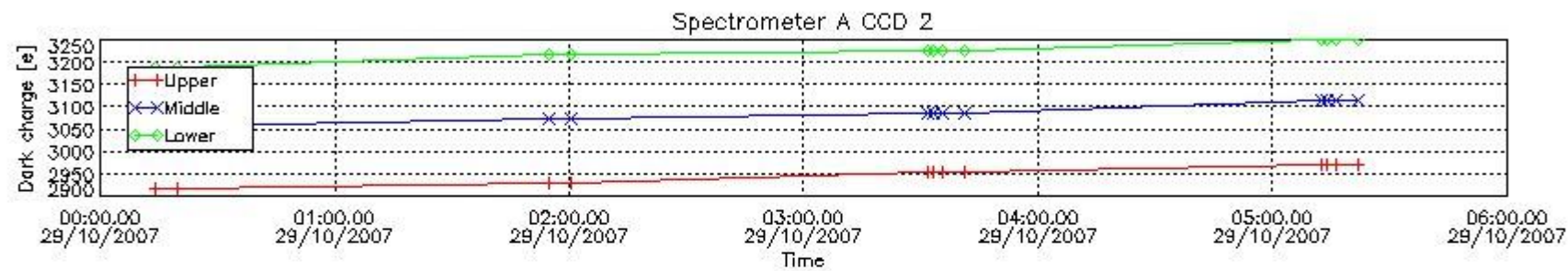
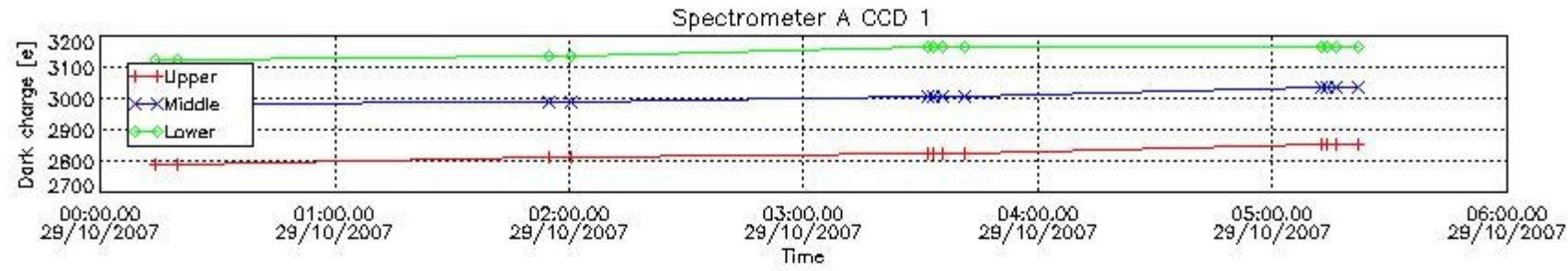
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





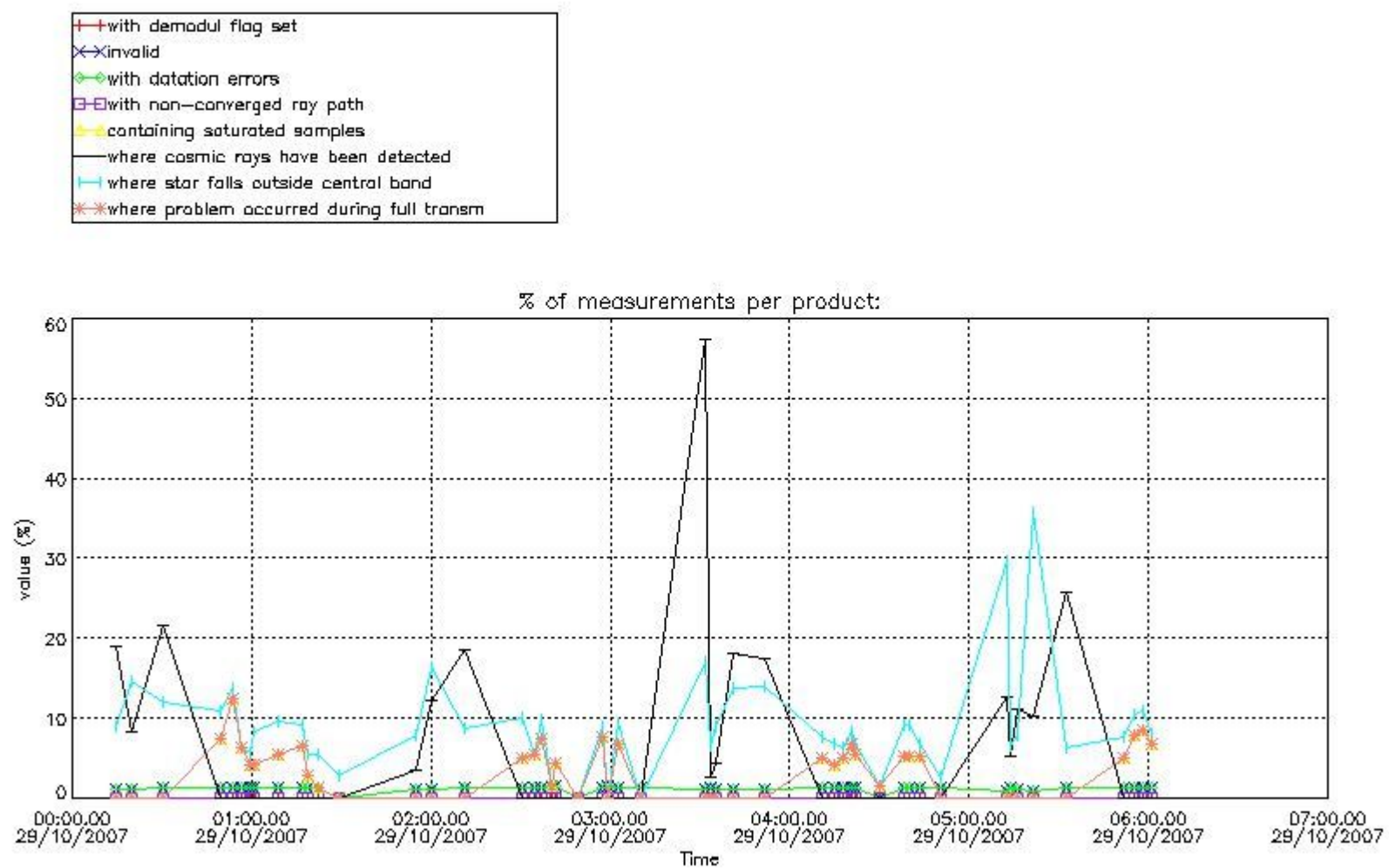
## 5. Demodulation flag and quality information monitoring

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:

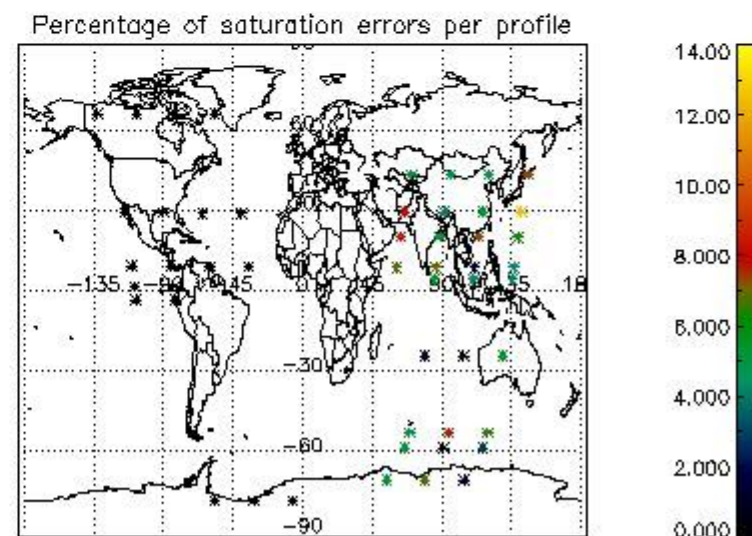
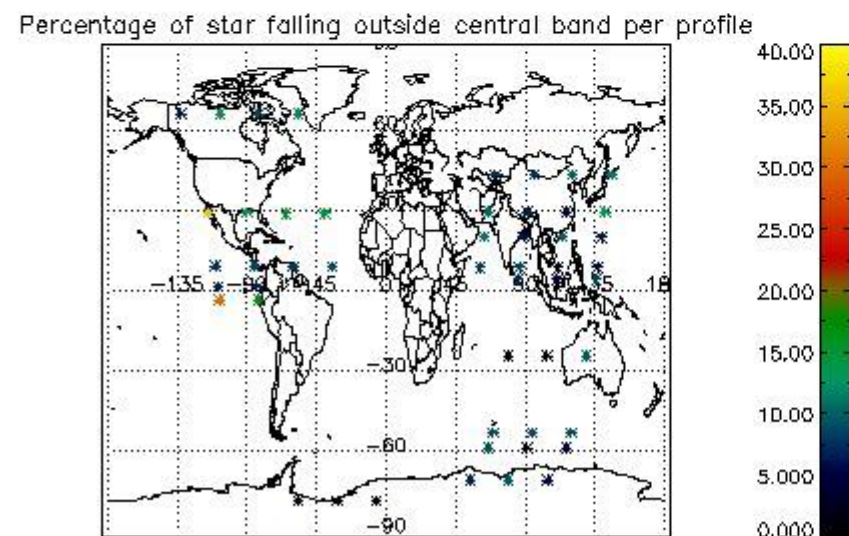
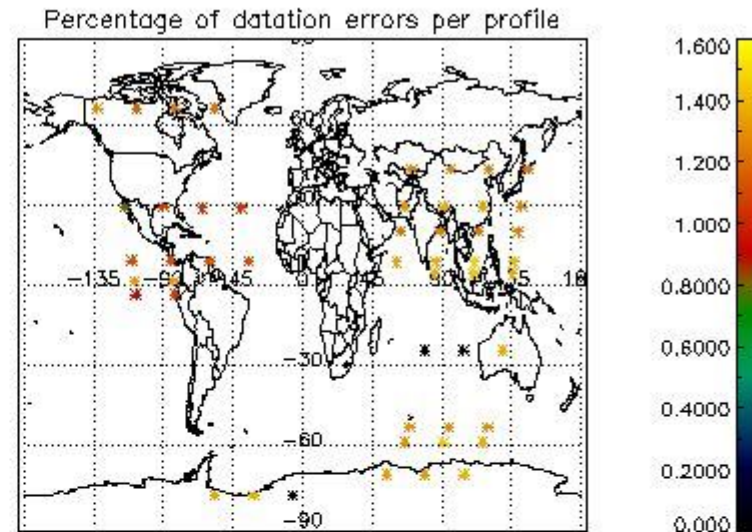
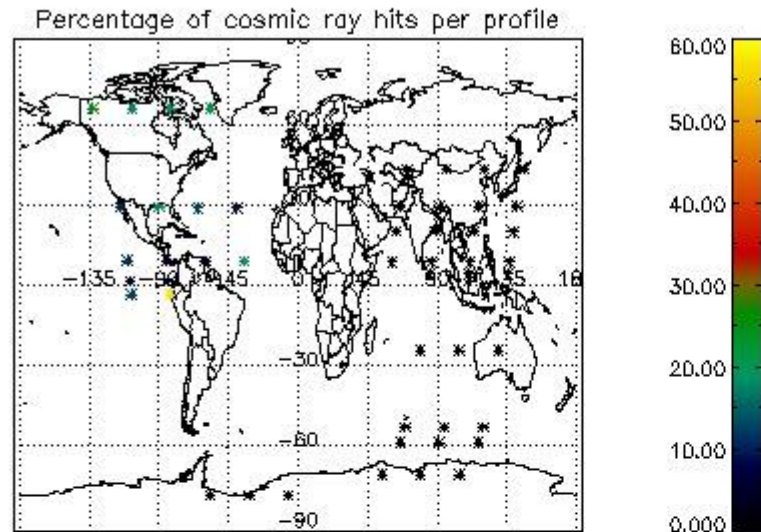
At least one measurement with demodulation flag set:	4.00000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





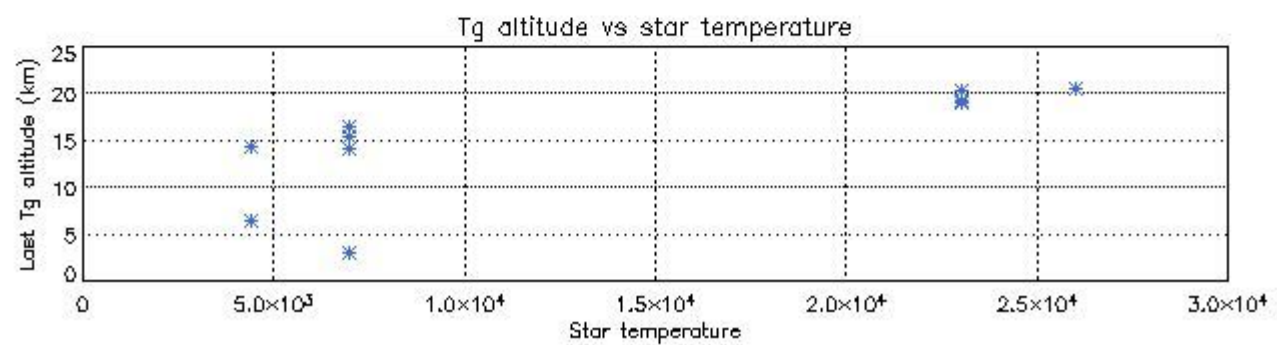
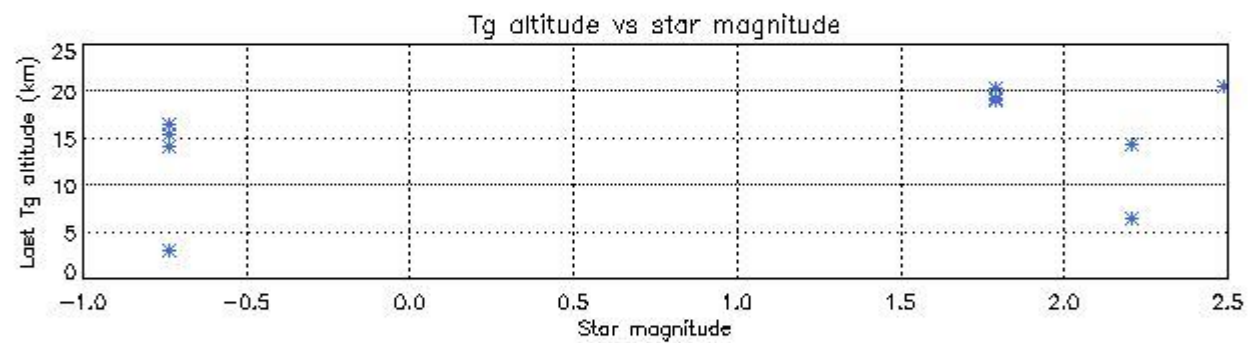
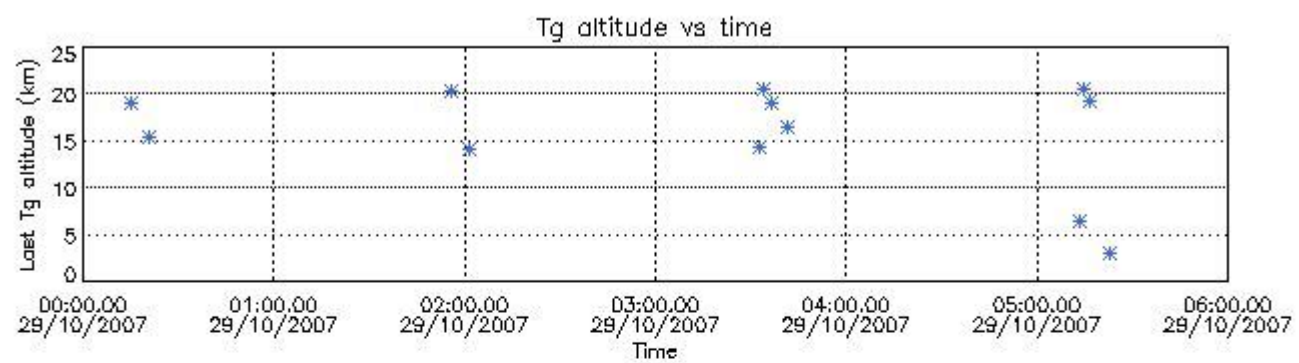
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.691	21.263	NaN
St. deviation:	5.7163	3.1759	NaN
Maximum:	20.583	31.513	NaN
Minimum:	2.9432	15.201	NaN
Number of data:	12.000	34.000	NaN

### 6.2 Plot for DARK limb products

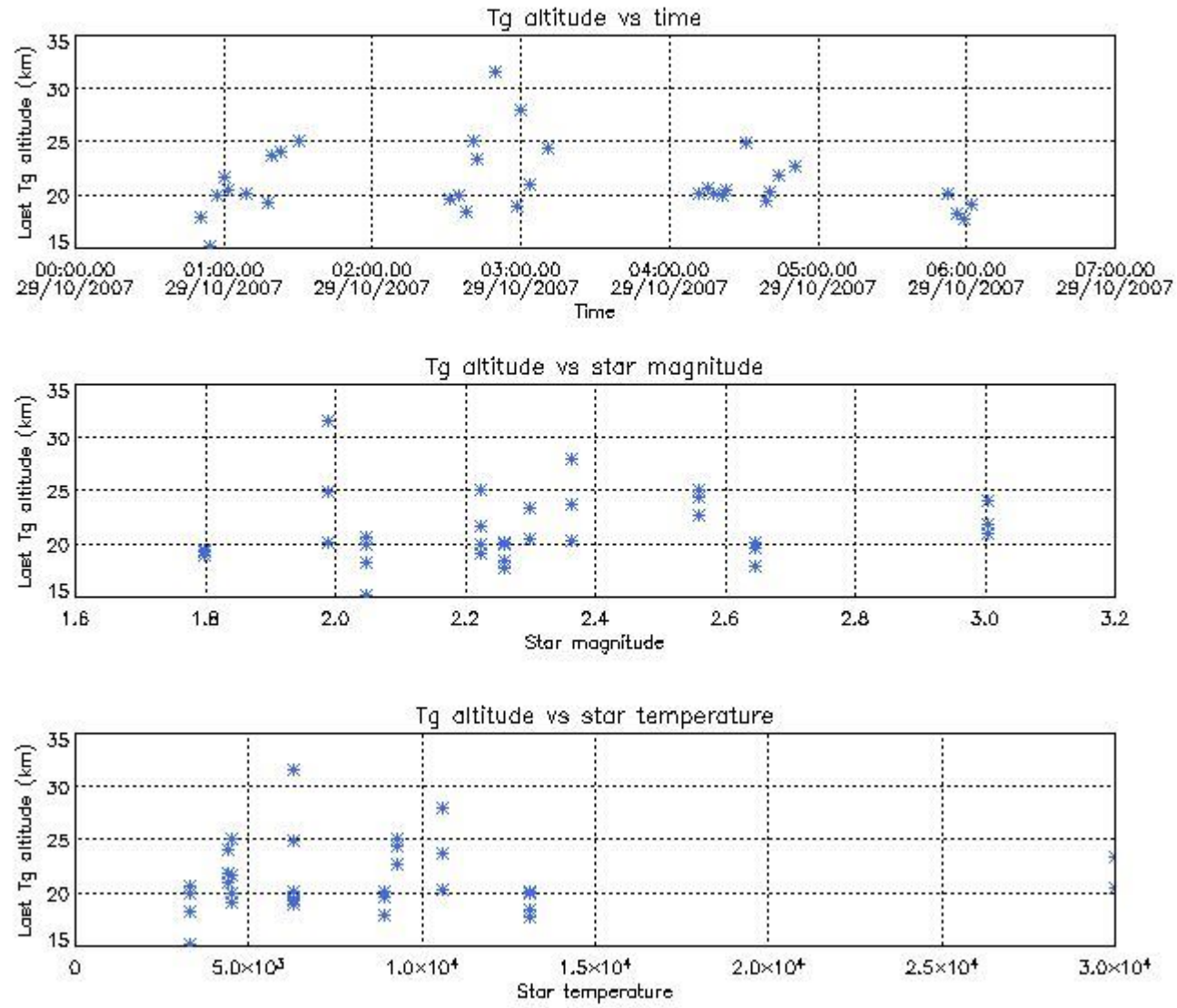
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

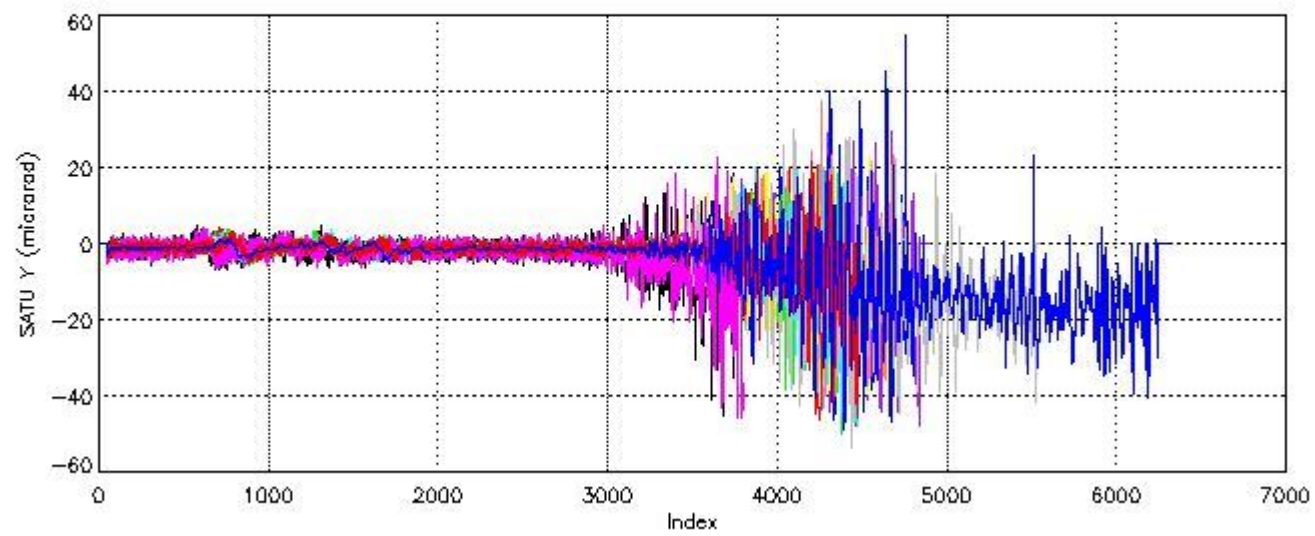
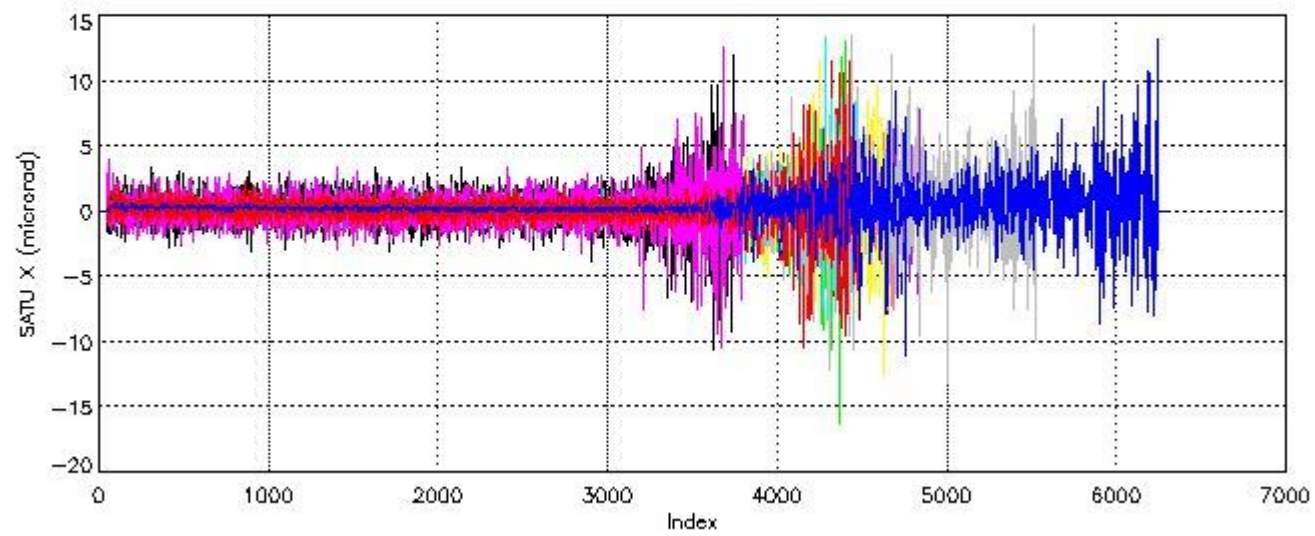


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.20306	-1.1928	0.12145	-1.2775
St. deviation:	0.41425	1.3364	0.65434	1.6207
Maximum:	4.0000	4.6000	4.9000	6.1000
Minimum:	-3.1000	-7.1000	-4.1000	-8.8000

Number of data:	12500.	12500.	28850.	28850.
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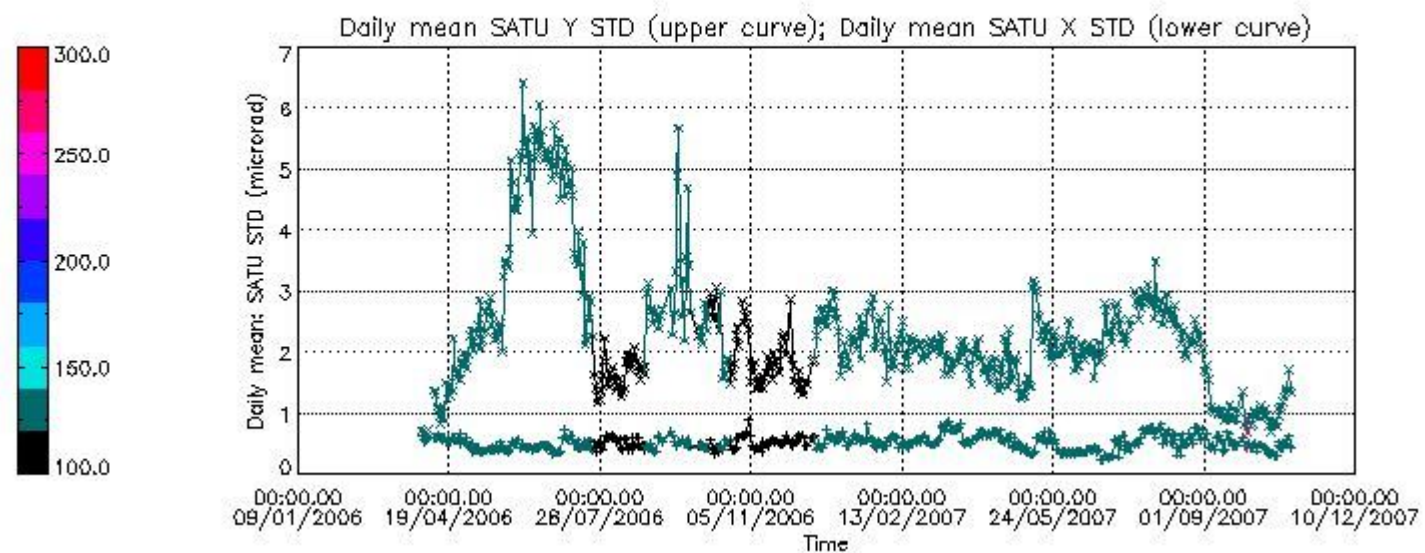
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

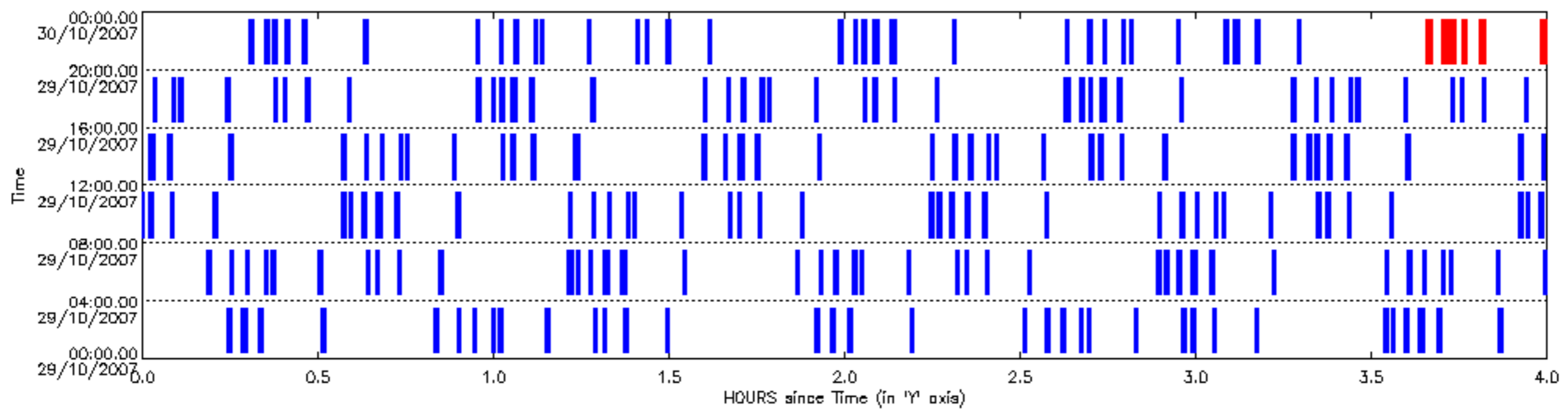


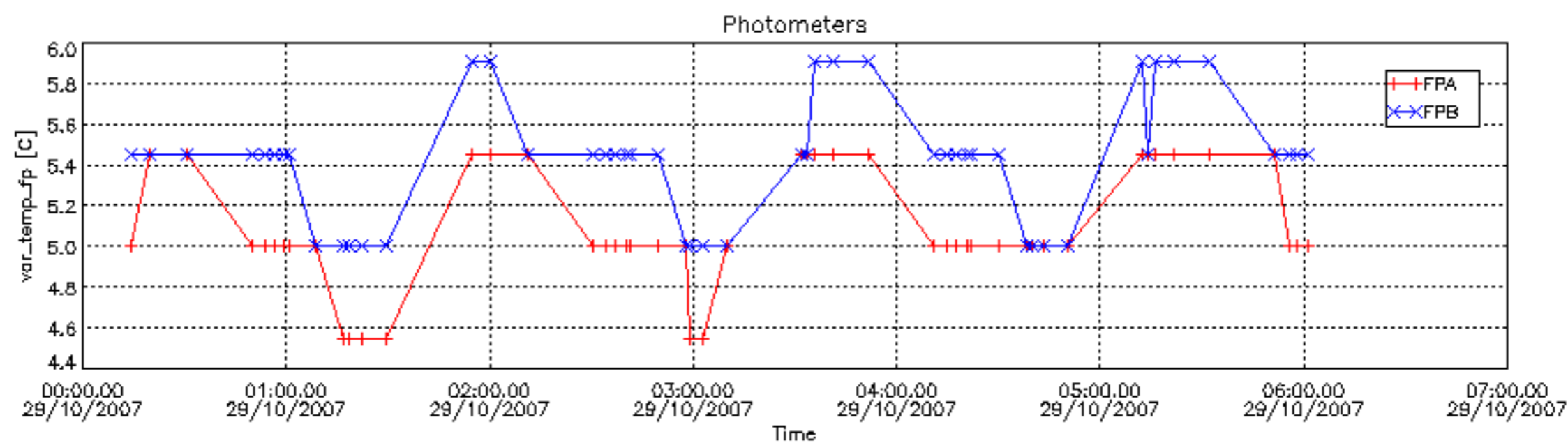
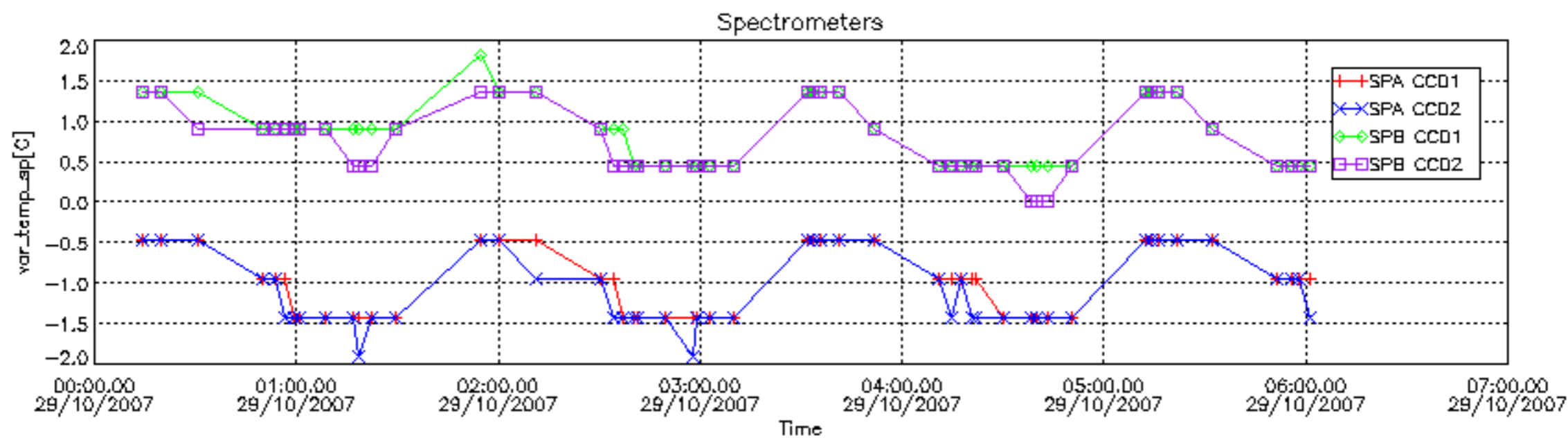
### 8. Auxiliary Data Files used for the production reported in section 2.4

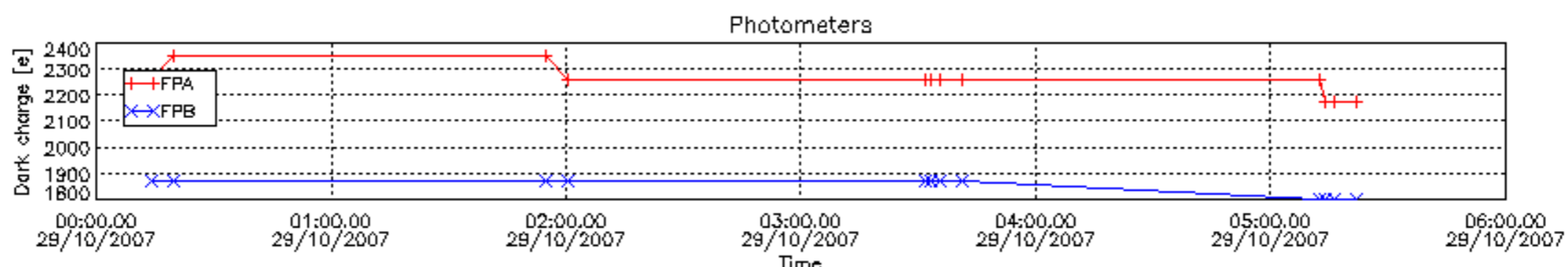
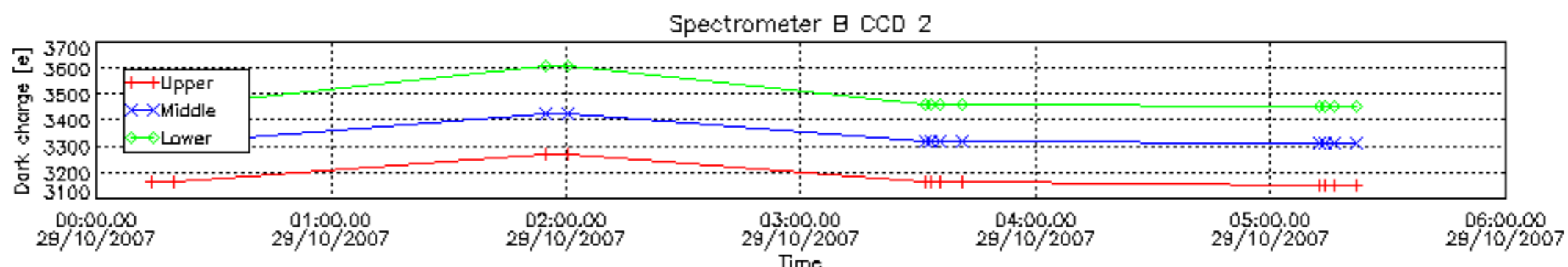
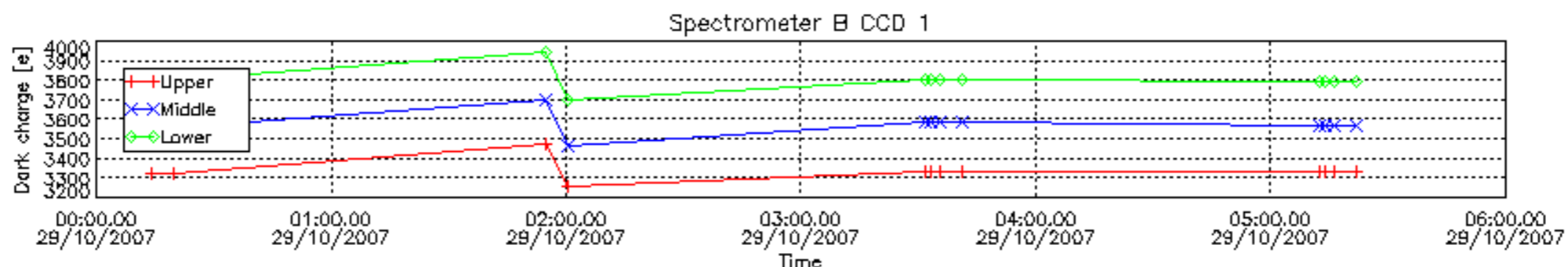
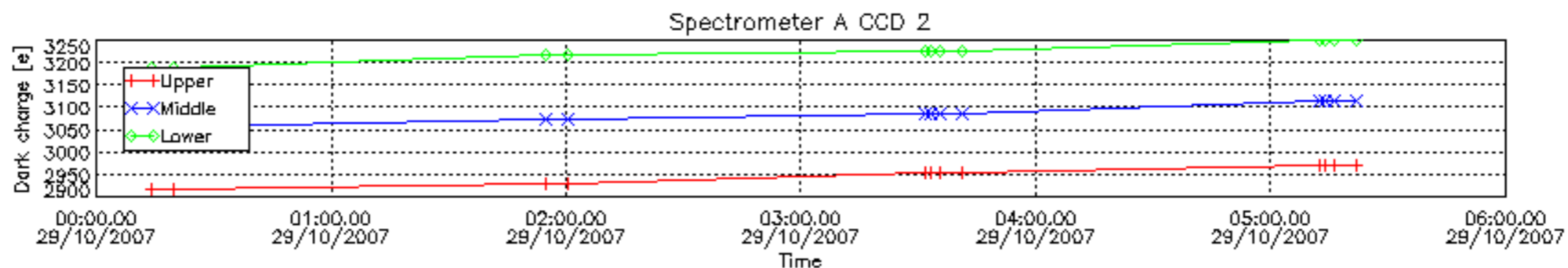
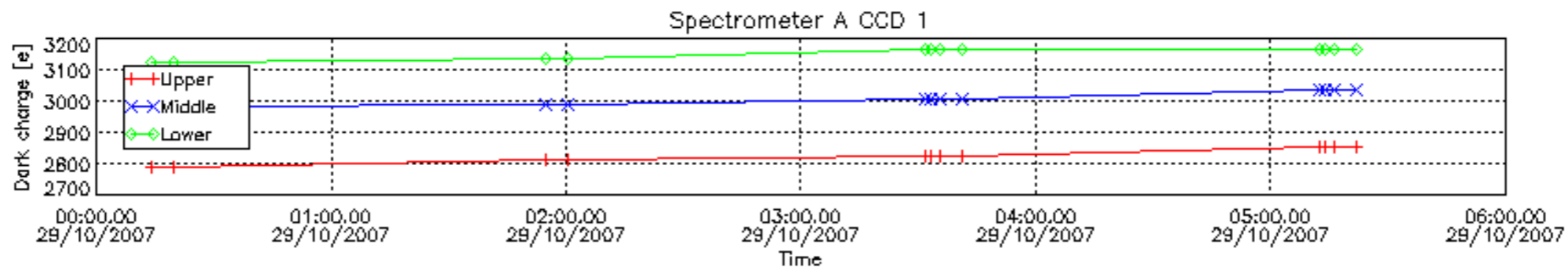
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	29-OCT-2007 00:14:17
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071019_103017_20071018_000000_20100101_000000	1	29-OCT-2007 00:14:17
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	29-OCT-2007 00:14:17
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-OCT-2007 00:14:17
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	29-OCT-2007 00:14:17
ECMWF_FILE	AUX_ECF_AXNECM20071028_060114_20071028_210000_20071029_090000	1	29-OCT-2007 00:14:17
ECMWF_FILE	AUX_ECF_AXNECM20071028_180115_20071029_030000_20071029_150000	38	29-OCT-2007 04:38:13
OPTIONAL_ECMWF_FILE	MISSING	1	29-OCT-2007 00:14:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071028_221518_000057382062_00487_29599_4450.N1	1	29-OCT-2007 00:14:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071028_235615_000057382062_00488_29600_4451.N1	14	29-OCT-2007 01:54:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071029_013153_000044632062_00489_29601_4452.N1	23	29-OCT-2007 02:57:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071029_025135_000057382062_00490_29602_4453.N1	38	29-OCT-2007 04:38:13





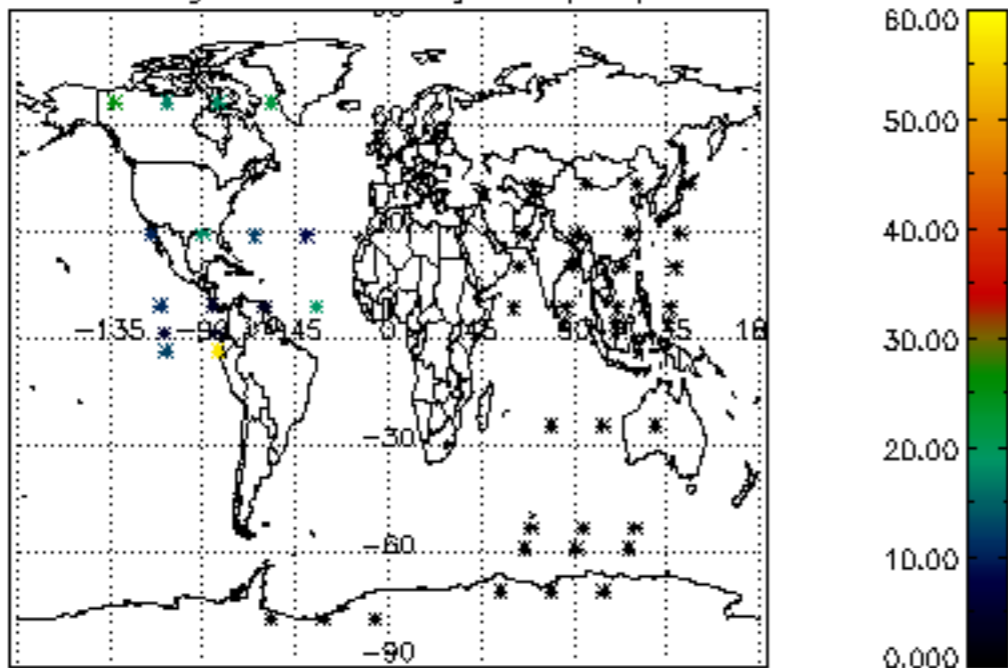




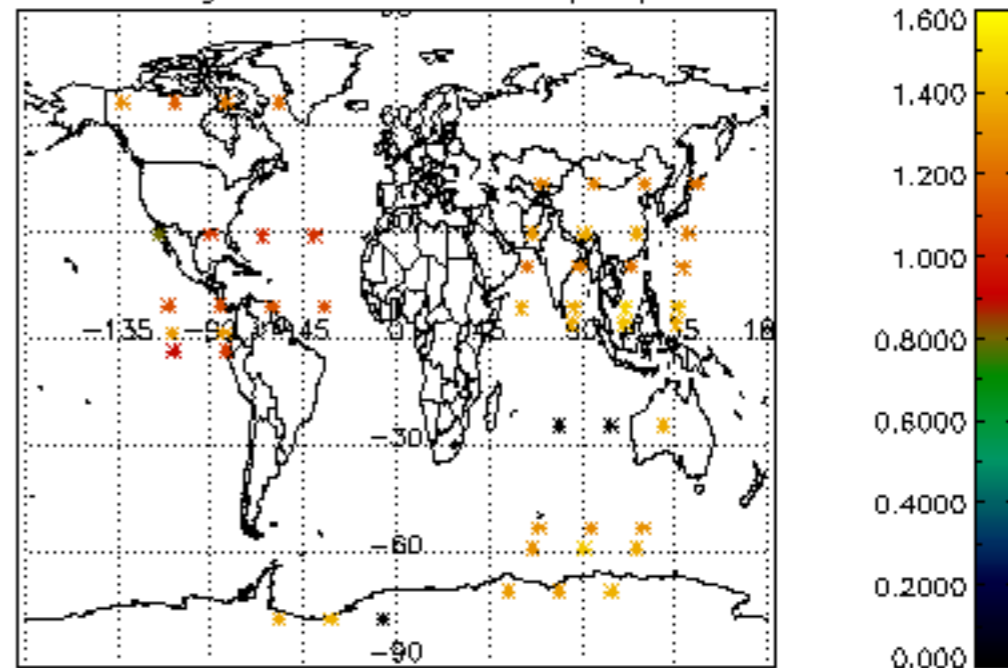




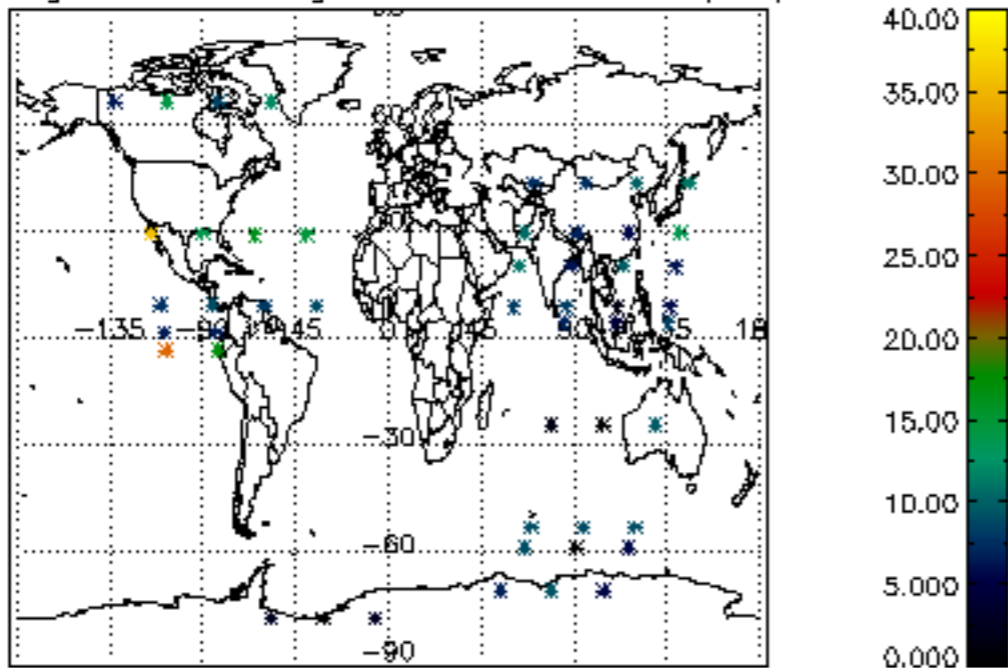
Percentage of cosmic ray hits per profile



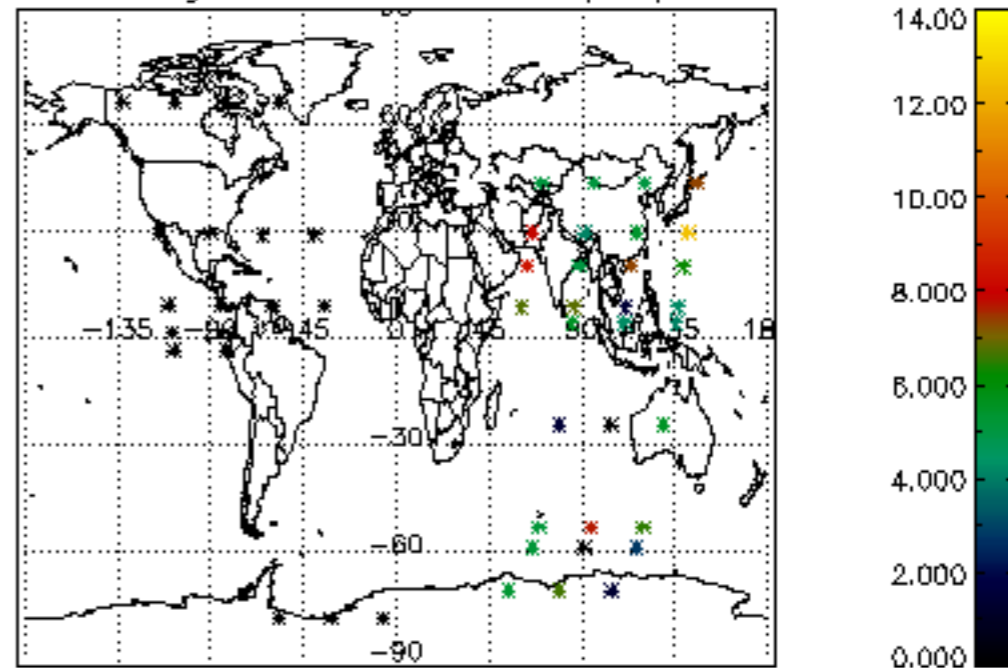
Percentage of datation errors per profile



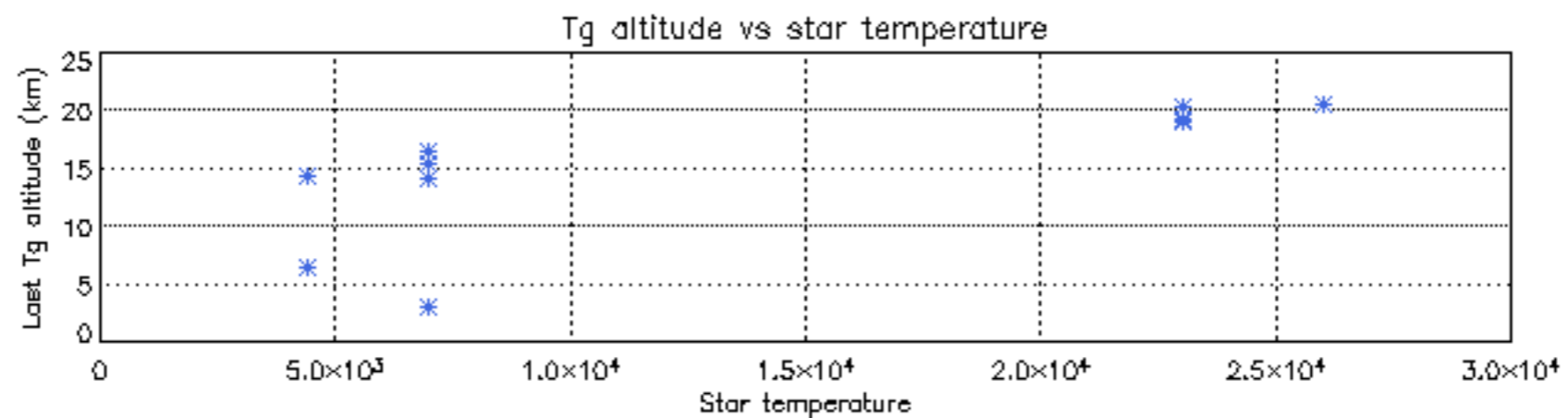
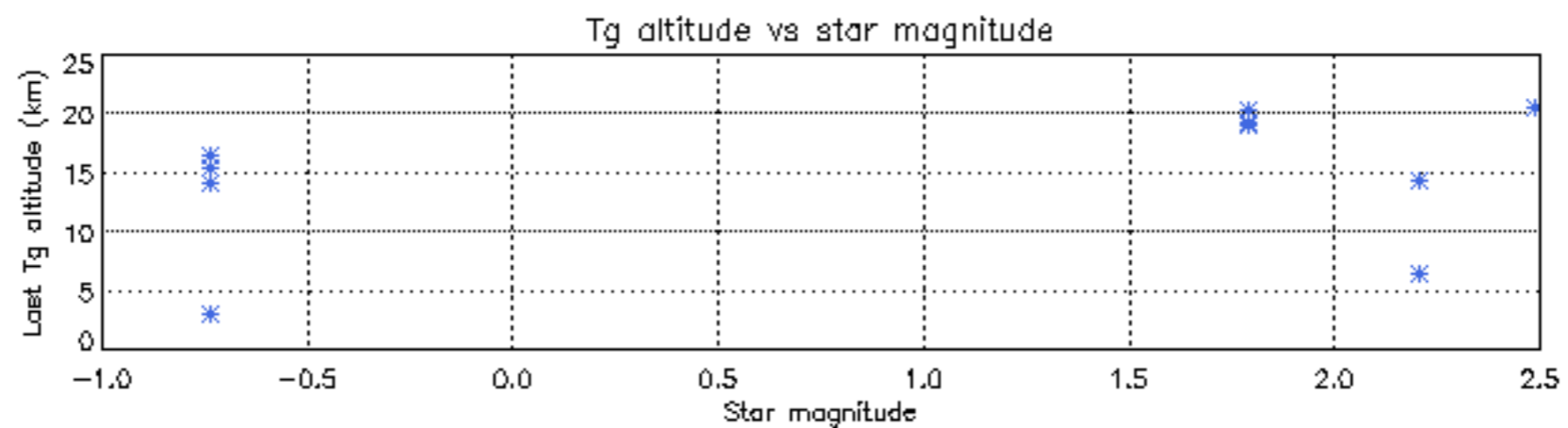
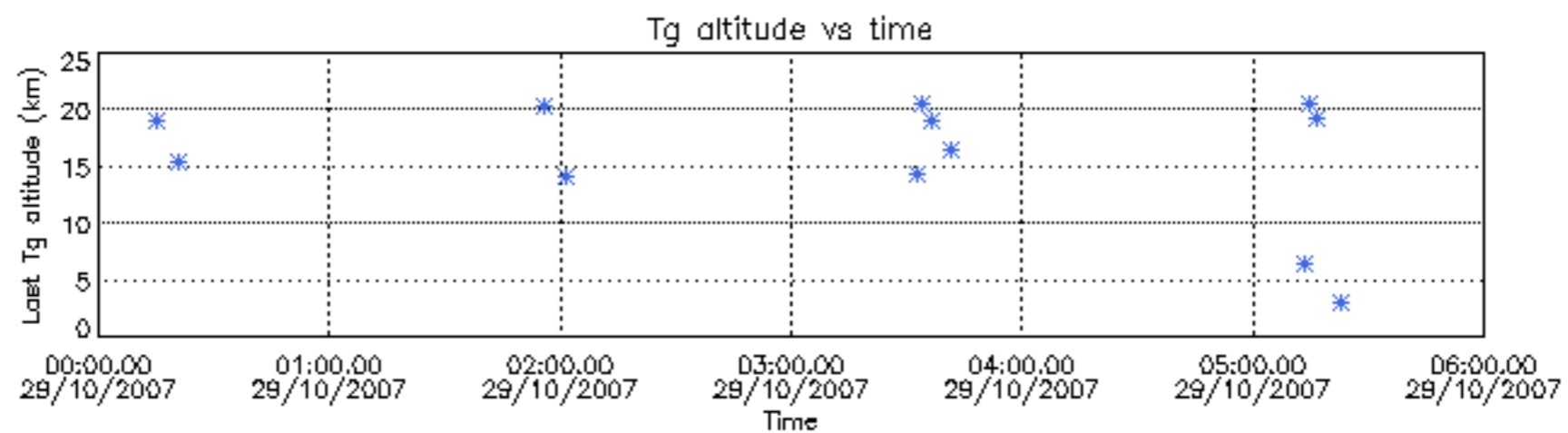
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

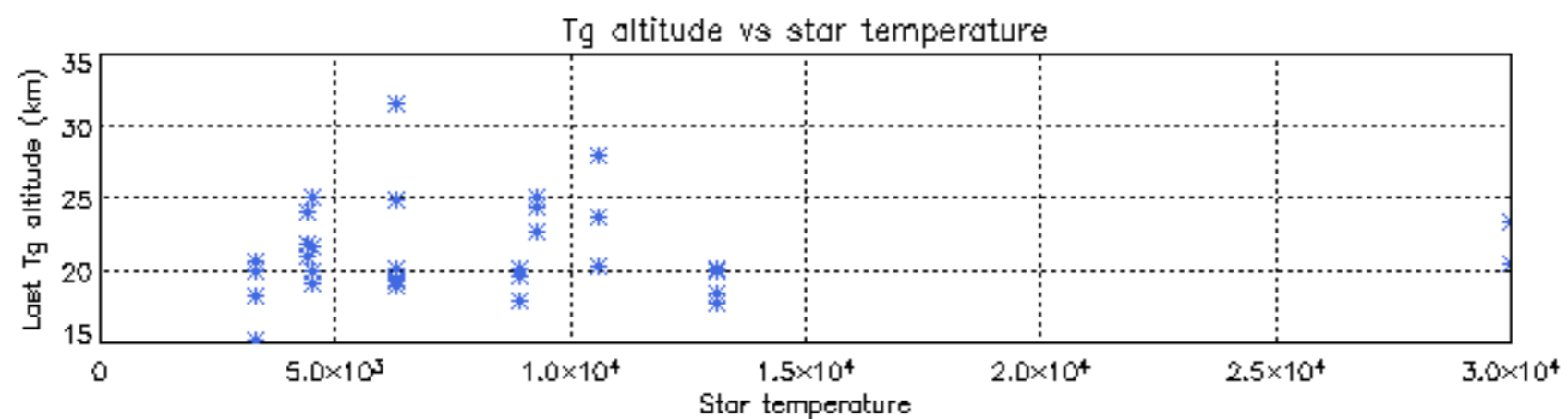
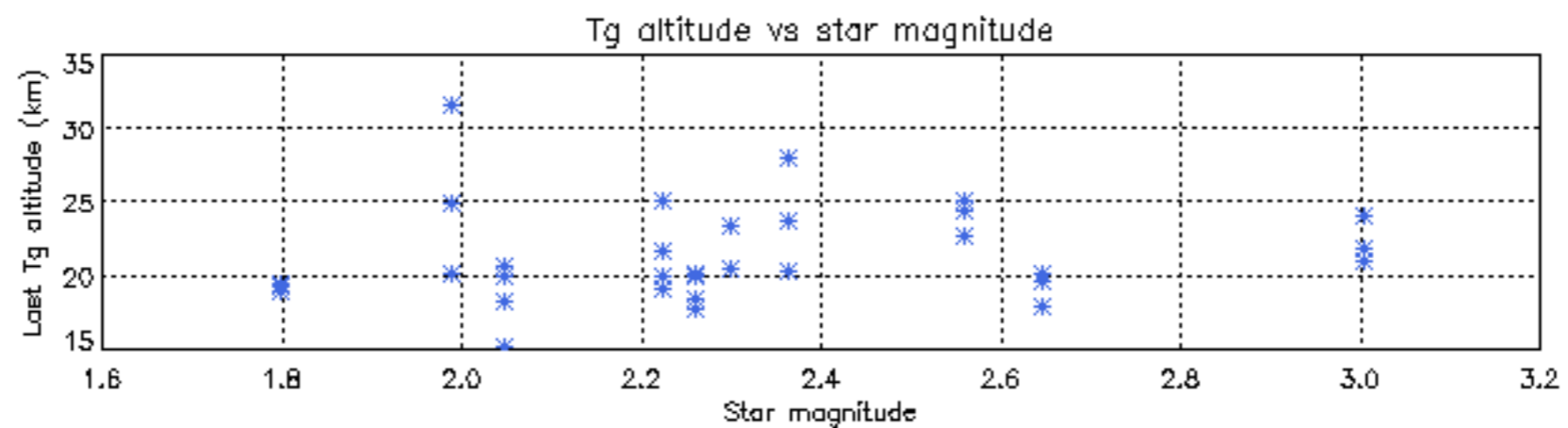
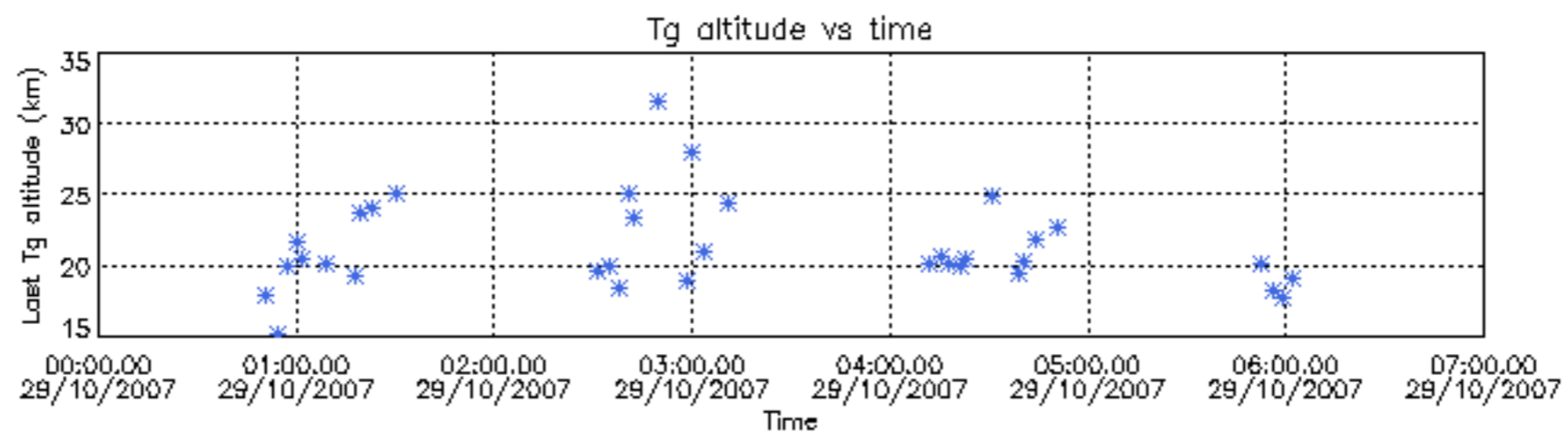


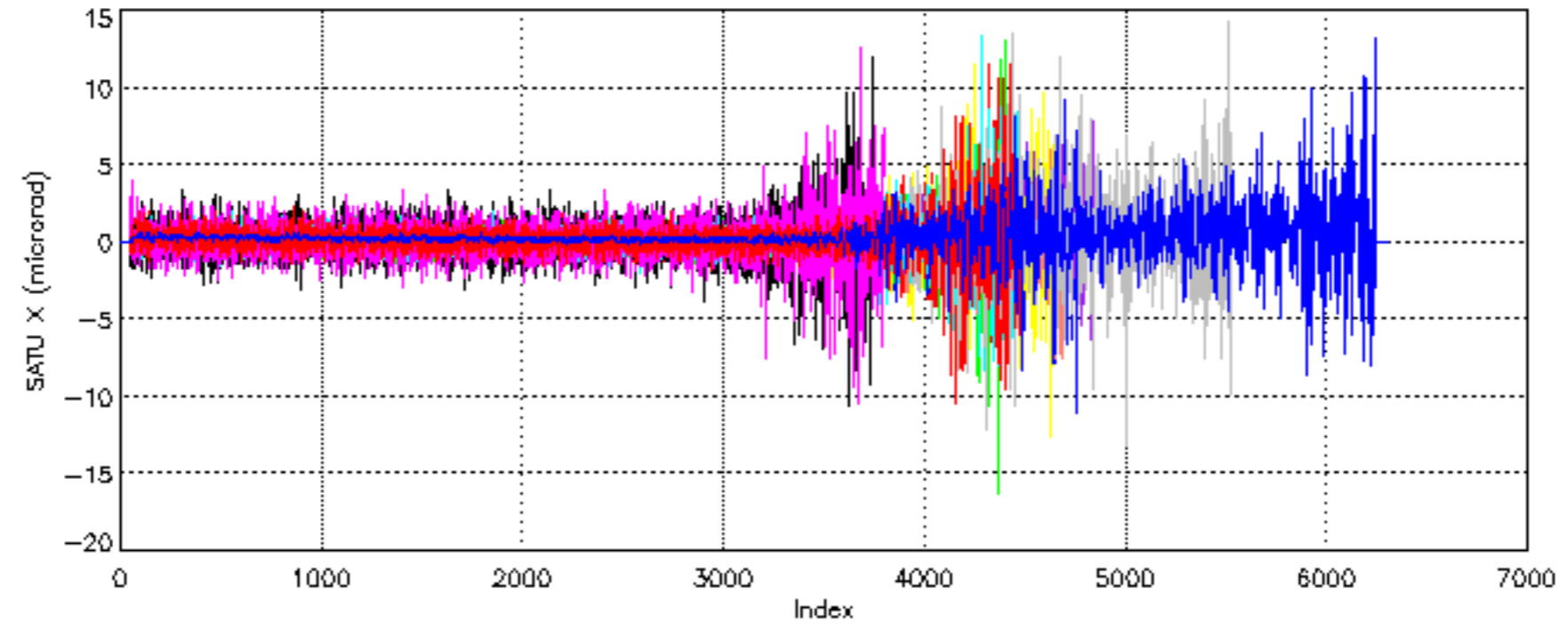
Tangent altitude at which the star is lost

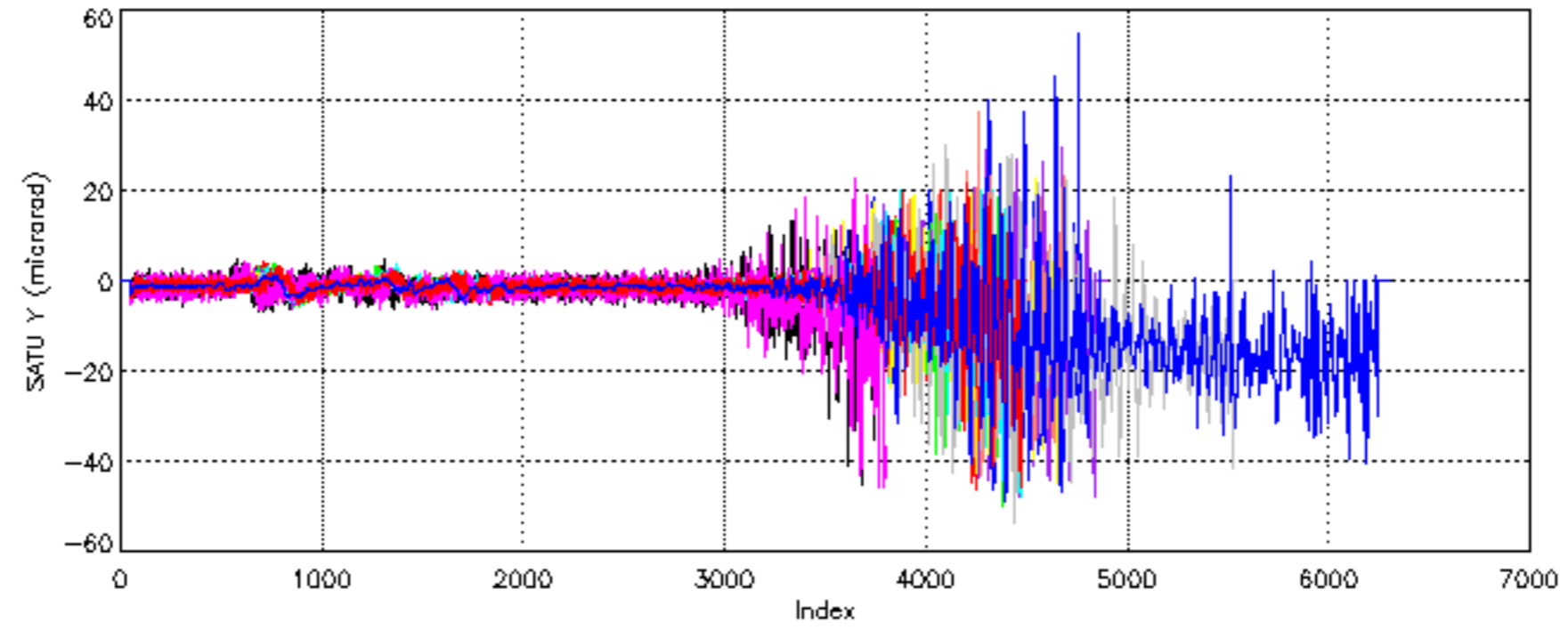


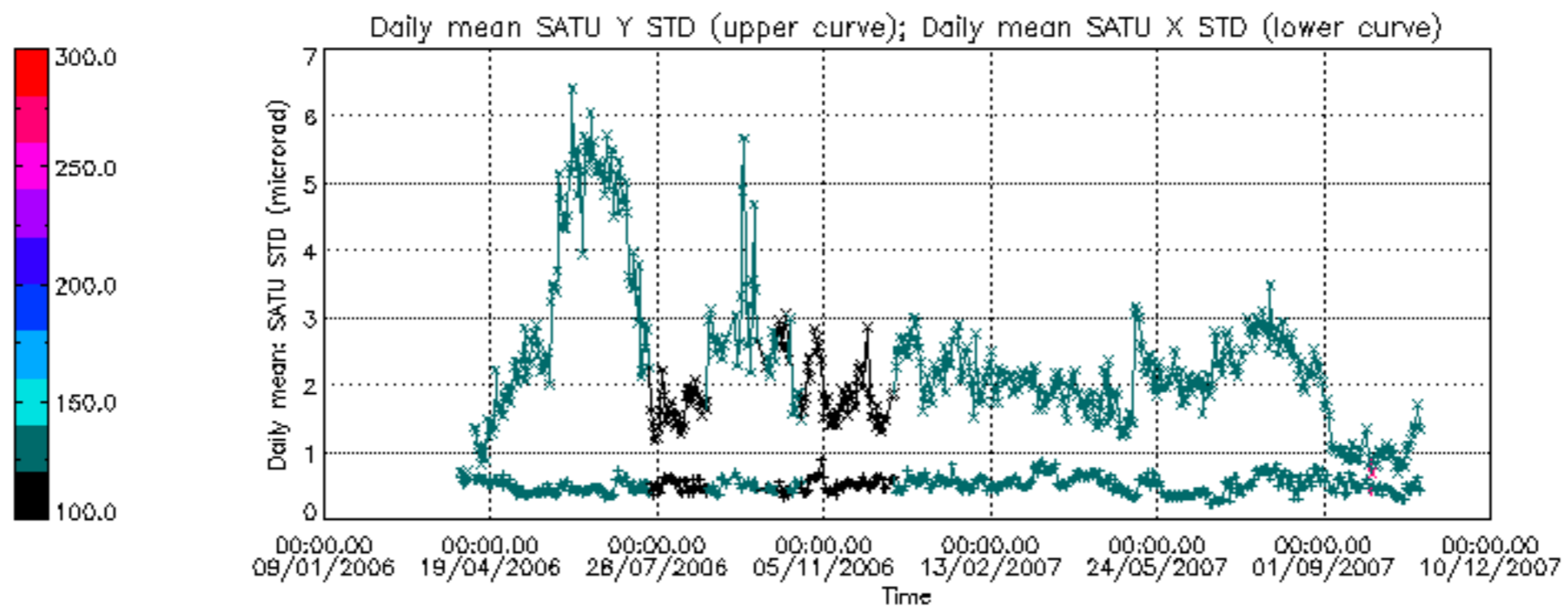


Tangent altitude at which the star is lost











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 3; -142.0; 01-OCT-2007 01:29:52; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;29200  
 4; 82.2; 01-OCT-2007 01:33:36; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29201  
 5; 166.3; 01-OCT-2007 01:35:00; Dark ; 59.0; 2; Alp Car ;-0.74; 7000;occ; 118; 0;29201  
 6; 729.7; 01-OCT-2007 01:44:23; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29201  
 7; 817.4; 01-OCT-2007 01:45:51; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29201  
 8; 1139.7; 01-OCT-2007 01:51:13; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29201  
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 10; 2386.2; 01-OCT-2007 02:12:00; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29201  
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 3; -1449.1; 01-OCT-2007 02:48:40; Bright; 42.0; 166; 17Eps Leo ; 2.98; 6000;occ; 84; 0;29201  
 4; -876.7; 01-OCT-2007 02:58:13; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29201  
 5; -295.8; 01-OCT-2007 03:07:54; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29201  
 6; -141.4; 01-OCT-2007 03:10:28; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;29201  
 7; 83.0; 01-OCT-2007 03:14:13; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29202  
 8; 167.1; 01-OCT-2007 03:15:37; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29202  
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 13; 2386.3; 01-OCT-2007 03:52:36; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29202  
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 5; 91.1; 01-OCT-2007 21:40:56; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29213  
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 8; 822.1; 01-OCT-2007 21:53:07; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29213  
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14; 2168.3; 02-OCT-2007 04:57:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29217
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16; 2948.9; 02-OCT-2007 05:10:58; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29217
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3;-1446.1; 02-OCT-2007 05:38:19; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29217
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8; 94.9; 02-OCT-2007 06:04:00; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29218
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7; -131.9; 02-OCT-2007 07:40:49; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29218
8; -32.8; 02-OCT-2007 07:42:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29218
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11; 736.7; 02-OCT-2007 07:55:17; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29219
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13; 1144.9; 02-OCT-2007 08:02:06; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29219
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3; 2386.3; 02-OCT-2007 08:22:47; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29219
4; 2948.3; 02-OCT-2007 08:32:09; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;29219
5; 3428.4; 02-OCT-2007 08:40:09; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29219
6; 3906.9; 02-OCT-2007 08:48:08; Bright; 35.5; 36; 50Alp UMA ; 1.80; 6300;occ; 71; 0;29219
7; 3997.2; 02-OCT-2007 08:49:38; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29219
8; 4590.2; 02-OCT-2007 08:59:31; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29219
9; 5166.4; 02-OCT-2007 09:09:07; Dark ; 44.0; 48; 30Alp Hya ; 1.98; 4100;occ; 88; 0;29219

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 13; 6003.8; 02-OCT-2007 09:23:04; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29219  
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 15; 6216.6; 02-OCT-2007 09:26:37; Dark ; 60.0; 2; Alp Car ; -0.74; 7000;occ; 120; 0;29219  
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 17; 6860.7; 02-OCT-2007 09:37:21; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29219  
 18; 7181.1; 02-OCT-2007 09:42:42; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29219  
 19; 7595.3; 02-OCT-2007 09:49:36; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;29219

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 4; 3428.4; 02-OCT-2007 10:20:45; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29220  
 5; 3907.0; 02-OCT-2007 10:28:44; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29220  
 6; 3997.4; 02-OCT-2007 10:30:14; Bright; 42.0; 82; 48Bet UMa ; 2.37; 10600;occ; 84; 0;29220  
 7; 4590.4; 02-OCT-2007 10:40:07; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29220  
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 3; 2947.8; 02-OCT-2007 11:53:20; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;29221  
 4; 3428.3; 02-OCT-2007 12:01:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29221  
 5; 3907.1; 02-OCT-2007 12:09:19; Bright; 52.0; 36; 50Alp UMa ; 1.80; 6300;occ; 104; 0;29221  
 6; 3997.4; 02-OCT-2007 12:10:50; Bright; 43.5; 82; 48Bet UMa ; 2.37; 10600;occ; 87; 0;29221  
 7; 4590.6; 02-OCT-2007 12:20:43; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29221  
 8; 5167.3; 02-OCT-2007 12:30:20; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;29221  
 9; 5747.6; 02-OCT-2007 12:40:00; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;29221  
 10; 5825.6; 02-OCT-2007 12:41:18; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;29221  
 11; 5905.7; 02-OCT-2007 12:42:38; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;29221  
 12; 6005.3; 02-OCT-2007 12:44:18; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29221  
 13; 6133.7; 02-OCT-2007 12:46:26; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29221  
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 16; 6861.4; 02-OCT-2007 12:58:34; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;29221  
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 13; 6006.1; 02-OCT-2007 14:24:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29222  
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 16; 4591.9; 03-OCT-2007 00:04:56; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29228  
 17; 5170.1; 03-OCT-2007 00:14:34; Dark ; 44.5; 48; 30Alp Hya ; 1.98; 4100;occ; 89; 0;29228

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 2; 2168.8; 02-OCT-2007 15:01:33; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29223  
 3; 2386.5; 02-OCT-2007 15:05:11; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;29223  
 4; 2947.4; 02-OCT-2007 15:14:32; Bright; 35.0; 74; 11Bet Cas ; 2.27; 6600;occ; 70; 0;29223  
 5; 3428.4; 02-OCT-2007 15:22:33; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29223  
 6; 3907.4; 02-OCT-2007 15:30:32; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29223  
 7; 3997.8; 02-OCT-2007 15:32:02; Bright; 40.5; 82; 48Bet UMa ; 2.37; 10600;occ; 81; 0;29223  
 8; 4591.2; 02-OCT-2007 15:41:55; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29223  
 9; 5168.2; 02-OCT-2007 15:51:32; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;29223  
 10; 5748.6; 02-OCT-2007 16:01:13; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;29223  
 11; 5827.1; 02-OCT-2007 16:02:31; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;29223  
 12; 5907.0; 02-OCT-2007 16:03:51; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29223  
 13; 6006.9; 02-OCT-2007 16:05:31; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29223  
 14; 6135.5; 02-OCT-2007 16:07:40; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29223  
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 2; 1559.9; 02-OCT-2007 16:32:00; Dark ; 50.5; 52; 16Bet Cet ; 2.04; 4500;occ; 101; 0;29224



3; 2168.7; 02-OCT-2007 16:42:09; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29224  
 4; 2386.5; 02-OCT-2007 16:45:47; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29224  
 5; 2947.2; 02-OCT-2007 16:55:07; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;29224  
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 7; 3907.5; 02-OCT-2007 17:11:08; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;29224  
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 9; 4591.4; 02-OCT-2007 17:22:32; Bright; 54.0; 166; 17Eps Leo ; 2.98; 6000;occ; 108; 0;29224  
 10; 5168.6; 02-OCT-2007 17:32:09; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;29224  
 11; 5749.0; 02-OCT-2007 17:41:49; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29224  
 12; 5827.9; 02-OCT-2007 17:43:08; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29224  
 13; 5907.6; 02-OCT-2007 17:44:28; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;29224  
 14; 6007.7; 02-OCT-2007 17:46:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29224  
 15; 6136.2; 02-OCT-2007 17:48:16; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29224  
 16; 6220.5; 02-OCT-2007 17:49:41; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;29224  
 17; 6775.0; 02-OCT-2007 17:58:55; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29224  
 18; 6862.7; 02-OCT-2007 18:00:23; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29224

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 3; 2168.8; 02-OCT-2007 18:22:45; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;29225  
 4; 2386.5; 02-OCT-2007 18:26:23; Bright; 36.5; 93; 53Bet Peg ; 2.52; 3100;occ; 73; 0;29225  
 5; 2946.9; 02-OCT-2007 18:35:43; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;29225  
 6; 3428.3; 02-OCT-2007 18:43:45; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29225  
 7; 3907.5; 02-OCT-2007 18:51:44; Bright; 33.5; 36; 50Alp UMa ; 1.80; 6300;occ; 67; 0;29225  
 8; 3997.9; 02-OCT-2007 18:53:14; Bright; 41.0; 82; 48Bet UMa ; 2.37; 10600;occ; 82; 0;29225  
 9; 4591.5; 02-OCT-2007 19:03:08; Bright; 48.5; 166; 17Eps Leo ; 2.98; 6000;occ; 97; 0;29225  
 10; 5169.0; 02-OCT-2007 19:12:45; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29225  
 11; 5749.3; 02-OCT-2007 19:22:26; Dark ; 50.0; 65; Lam Vel ; 2.20; 4400;occ; 100; 0;29225  
 12; 5828.5; 02-OCT-2007 19:23:45; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0;29225  
 13; 5908.0; 02-OCT-2007 19:25:04; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;29225  
 14; 6008.4; 02-OCT-2007 19:26:45; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29225  
 15; 6136.9; 02-OCT-2007 19:28:53; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;29225  
 16; 6221.2; 02-OCT-2007 19:30:17; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29225  
 17; 6775.3; 02-OCT-2007 19:39:31; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29225  
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 3; -25.3; 03-OCT-2007 00:28:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29228  
 4; 103.1; 03-OCT-2007 00:30:43; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;29229  
 5; 187.5; 03-OCT-2007 00:32:07; Dark ; 59.5; 2; Alp Car ;-0.74; 7000;occ; 119; 0;29229  
 6; 740.4; 03-OCT-2007 00:41:20; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29229  
 7; 828.1; 03-OCT-2007 00:42:48; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29229  
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 5; 103.9; 03-OCT-2007 02:11:20; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29230  
 6; 188.3; 03-OCT-2007 02:12:44; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29230  
 7; 740.9; 03-OCT-2007 02:21:57; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29230  
 8; 828.4; 03-OCT-2007 02:23:24; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;29230  
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 11; 2386.5; 03-OCT-2007 02:49:22; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29230  
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3;-1443.5; 03-OCT-2007 03:26:08; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29230
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6; -124.9; 03-OCT-2007 03:48:07; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;29230
7; -23.7; 03-OCT-2007 03:49:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29230
8; 104.8; 03-OCT-2007 03:51:56; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29231
9; 189.1; 03-OCT-2007 03:53:21; Dark ; 57.5; 2; Alp Car ;-0.74; 7000;occ; 115; 0;29231
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11; 829.0; 03-OCT-2007 04:04:01; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;29231
12; 1148.3; 03-OCT-2007 04:09:20; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;29231
13; 2169.5; 03-OCT-2007 04:26:21; Bright; 35.5; 90; 54Alp Peg ; 2.49; 11000;occ; 71; 0;29231
14; 2386.7; 03-OCT-2007 04:29:58; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29231
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4; 2386.9; 03-OCT-2007 21:15:58; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29241
5; 2943.1; 03-OCT-2007 21:25:14; Bright; 35.0; 74; 11Bet Cas ; 2.27; 6600;occ; 70; 0;29241
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4; -15.3; 03-OCT-2007 22:16:32; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29241
5; 113.2; 03-OCT-2007 22:18:40; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29242
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8; 833.0; 03-OCT-2007 22:30:40; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;29242
9; 1151.2; 03-OCT-2007 22:35:58; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;29242
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11; 2170.1; 03-OCT-2007 22:52:57; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;29242
12; 2386.9; 03-OCT-2007 22:56:34; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29242
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19; 4779.7; 03-OCT-2007 23:36:27; Bright; 34.0; 22; 32Alp Leo ; 1.36; 15200;occ; 68; 0;29242
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3; -1834.9; 07-OCT-2007 02:53:45; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29287  
4; -1431.9; 07-OCT-2007 03:00:28; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29287  
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6; -839.0; 07-OCT-2007 03:10:21; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29287  
7; -259.7; 07-OCT-2007 03:20:00; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;29287  
8; -161.8; 07-OCT-2007 03:21:38; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29287  
9; -64.8; 07-OCT-2007 03:23:15; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;29287  
10; 21.0; 07-OCT-2007 03:24:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29288  
11; 149.1; 07-OCT-2007 03:26:49; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29288  
12; 233.2; 07-OCT-2007 03:28:13; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;29288  
13; 762.0; 07-OCT-2007 03:37:02; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29288  
14; 849.6; 07-OCT-2007 03:38:29; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29288  
15; 1163.0; 07-OCT-2007 03:43:43; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29288  
16; 1568.9; 07-OCT-2007 03:50:29; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29288  
17; 2172.5; 07-OCT-2007 04:00:32; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;29288  
18; 2390.1; 07-OCT-2007 04:04:10; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29288  
19; 2918.1; 07-OCT-2007 04:12:58; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29288  
20; 3003.1; 07-OCT-2007 04:14:23; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29288  
21; 3427.6; 07-OCT-2007 04:21:27; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29288

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3; -1834.8; 07-OCT-2007 04:34:21; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29288  
4; -1431.7; 07-OCT-2007 04:41:04; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29288  
5; -838.5; 07-OCT-2007 04:50:57; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29288  
6; -259.4; 07-OCT-2007 05:00:36; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29288  
7; -161.0; 07-OCT-2007 05:02:15; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;29288  
8; -64.4; 07-OCT-2007 05:03:51; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29288  
9; 21.8; 07-OCT-2007 05:05:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29289  
10; 149.9; 07-OCT-2007 05:07:26; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29289

11; 234.0; 07-OCT-2007 05:08:50; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;29289  
 12; 762.3; 07-OCT-2007 05:17:38; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29289  
 13; 849.9; 07-OCT-2007 05:19:06; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;29289  
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 17; 2390.2; 07-OCT-2007 05:44:46; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29289  
 18; 2917.8; 07-OCT-2007 05:53:34; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29289  
 19; 3002.8; 07-OCT-2007 05:54:59; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29289  
 20; 3427.5; 07-OCT-2007 06:02:03; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29289

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 3; 242.6; 07-OCT-2007 23:35:34; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29300  
 4; 766.1; 07-OCT-2007 23:44:17; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29300  
 5; 853.5; 07-OCT-2007 23:45:45; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29300  
 6; 1165.9; 07-OCT-2007 23:50:57; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29300  
 7; 1570.4; 07-OCT-2007 23:57:41; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29300  
 8; 2171.1; 08-OCT-2007 00:07:42; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29300  
 9; 2391.1; 08-OCT-2007 00:11:22; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29300  
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 11; 2999.1; 08-OCT-2007 00:21:30; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29300  
 12; 3427.4; 08-OCT-2007 00:28:38; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29300  
 13; 3914.1; 08-OCT-2007 00:36:45; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29300  
 14; 4005.7; 08-OCT-2007 00:38:17; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;29300  
 15; 4202.6; 08-OCT-2007 00:41:34; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29300  
 16; 4606.8; 08-OCT-2007 00:48:18; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;29300  
 17; 4794.5; 08-OCT-2007 00:51:25; Bright; 35.0; 22; 32Alp Leo ; 1.36; 15200;occ; 70; 0;29300  
 18; 5203.4; 08-OCT-2007 00:58:14; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29300

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 9; 22.6; 07-OCT-2007 06:45:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290  
 10; 150.7; 07-OCT-2007 06:48:02; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29290  
 11; 234.8; 07-OCT-2007 06:49:27; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;29290  
 12; 762.8; 07-OCT-2007 06:58:15; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29290  
 13; 850.2; 07-OCT-2007 06:59:42; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;29290  
 14; 1163.5; 07-OCT-2007 07:04:55; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29290  
 15; 1569.2; 07-OCT-2007 07:11:41; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29290

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 3; 2917.5; 07-OCT-2007 07:34:09; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;29290  
 4; 3002.4; 07-OCT-2007 07:35:34; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;29290  
 5; 3427.6; 07-OCT-2007 07:42:39; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29290  
 6; 3913.5; 07-OCT-2007 07:50:45; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29290  
 7; 4004.9; 07-OCT-2007 07:52:17; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29290  
 8; 4201.5; 07-OCT-2007 07:55:33; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29290  
 9; 4604.7; 07-OCT-2007 08:02:16; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29290  
 10; 5198.4; 07-OCT-2007 08:12:10; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;29290  
 11; 5777.6; 07-OCT-2007 08:21:49; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29290  
 12; 5876.5; 07-OCT-2007 08:23:28; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;29290  
 13; 5972.4; 07-OCT-2007 08:25:04; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29290  
 14; 6059.3; 07-OCT-2007 08:26:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290  
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 17; 6799.0; 07-OCT-2007 08:38:51; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29290  
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 19; 7199.7; 07-OCT-2007 08:45:31; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29290  
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4; 3002.2; 07-OCT-2007 09:16:10; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;29291
5; 3427.5; 07-OCT-2007 09:23:15; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;29291
6; 3913.3; 07-OCT-2007 09:31:21; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29291
7; 4004.7; 07-OCT-2007 09:32:52; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29291
8; 4201.6; 07-OCT-2007 09:36:09; Bright; 32.5; 174; 52Psi UMa ; 3.00; 4400;occ; 65; 0;29291
9; 4604.9; 07-OCT-2007 09:42:53; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29291
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17; 6799.4; 07-OCT-2007 10:19:27; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29291
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19; 7199.9; 07-OCT-2007 10:26:08; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29291
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3; 2390.5; 07-OCT-2007 10:46:34; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29292
4; 2916.9; 07-OCT-2007 10:55:20; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29292
5; 3001.8; 07-OCT-2007 10:56:45; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;29292
6; 3427.5; 07-OCT-2007 11:03:51; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29292
7; 3913.6; 07-OCT-2007 11:11:57; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29292
8; 4005.0; 07-OCT-2007 11:13:29; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29292
9; 4201.6; 07-OCT-2007 11:16:45; Bright; 32.0; 174; 52Psi UMa ; 3.00; 4400;occ; 64; 0;29292
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11; 4792.3; 07-OCT-2007 11:26:36; Bright; 36.5; 22; 32Alp Leo ; 1.36; 15200;occ; 73; 0;29292
12; 5199.4; 07-OCT-2007 11:33:23; Dark ; 47.5; 48; 30Alp Hya ; 1.98; 4100;occ; 95; 0;29292
13; 5778.5; 07-OCT-2007 11:43:02; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29292
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17; 6189.0; 07-OCT-2007 11:49:53; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29292
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19; 6799.6; 07-OCT-2007 12:00:03; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29292
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12; 5199.8; 07-OCT-2007 13:13:59; Dark ; 49.5; 48; 30Alp Hya ; 1.98; 4100;occ; 99; 0;29293
13; 5778.9; 07-OCT-2007 13:23:38; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;29293
14; 5878.9; 07-OCT-2007 13:25:18; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;29293
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9; 4211.3; 12-OCT-2007 20:23:02; Bright; 52.0; 174; 52Psi UMA ; 3.00; 4400;occ; 104; 0;29369
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2; 1595.0; 19-OCT-2007 20:59:54; Dark ; 39.0; 52; 16Bet Cet ; 2.04; 4500;occ; 78; 0;29470
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5; 1070.3; 19-OCT-2007 22:31:45; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;29471
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 12; 4847.0; 19-OCT-2007 11:50:30; Bright; 41.5; 22; 32Alp Leo ; 1.36; 15200;occ; 83; 0;29464  
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 16; 6413.3; 19-OCT-2007 15:37:48; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29466  
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10; 4221.8; 20-OCT-2007 14:29:40; Bright; 35.5; 174; 52Psi UMA ; 3.00; 4400;occ; 71; 0;29480
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16; 6082.7; 22-OCT-2007 13:57:27; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29508
17; 6201.7; 22-OCT-2007 13:59:25; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29508
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3; 2405.9; 22-OCT-2007 14:36:46; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;29509
4; 2531.2; 22-OCT-2007 14:38:51; Bright; 36.0; 53; 43Bet And ; 2.05; 3300;occ; 72; 0;29509
5; 2873.6; 22-OCT-2007 14:44:33; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29509
6; 2951.6; 22-OCT-2007 14:45:51; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29509
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8; 3626.3; 22-OCT-2007 14:57:06; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;29509
9; 3919.9; 22-OCT-2007 15:02:00; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0;29509
10; 4014.5; 22-OCT-2007 15:03:34; Bright; 44.0; 82; 48Bet UMA ; 2.37; 10600;occ; 88; 0;29509
11; 4224.1; 22-OCT-2007 15:07:04; Bright; 54.0; 174; 52Psi UMA ; 3.00; 4400;occ; 108; 0;29509
12; 4701.0; 22-OCT-2007 15:15:01; Bright; 31.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 62; 0;29509
13; 5815.1; 22-OCT-2007 15:33:35; Dark ; 38.5; 113; Mu Vel ; 2.69; 5000;occ; 77; 0;29509
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16; 6083.5; 22-OCT-2007 15:38:03; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29509
17; 6202.0; 22-OCT-2007 15:40:02; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;29509
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6; 2951.3; 22-OCT-2007 16:26:27; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29510
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10; 4014.4; 22-OCT-2007 16:44:10; Bright; 36.5; 82; 48Bet UMA ; 2.37; 10600;occ; 73; 0;29510

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 17; 6202.3; 22-OCT-2007 17:20:38; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29510  
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 12; 3919.6; 22-OCT-2007 20:03:47; Bright; 53.0; 36; 50Alp UMA ; 1.80; 6300;occ; 106; 0;29512  
 13; 4014.4; 22-OCT-2007 20:05:22; Bright; 54.0; 82; 48Bet UMA ; 2.37; 10600;occ; 108; 0;29512  
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 22; 6865.5; 22-OCT-2007 20:52:53; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29512  
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 5; 167.4; 23-OCT-2007 00:03:03; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29515  
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 17; 6210.0; 24-OCT-2007 14:36:56; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29537  
 18; 6871.9; 24-OCT-2007 14:47:57; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29537  
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9; 181.2; 26-OCT-2007 06:51:25; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;29562
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5; 2945.0; 26-OCT-2007 09:18:05; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29563
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