

# GOMOS Daily Report 31-JAN-2009

## 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	04FEB2009 05:41:35
Data source version	GOMOS/5.00
Start time of products	31JAN2009 00:11:17
Stop time of products	31JAN2009 03:08:34
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

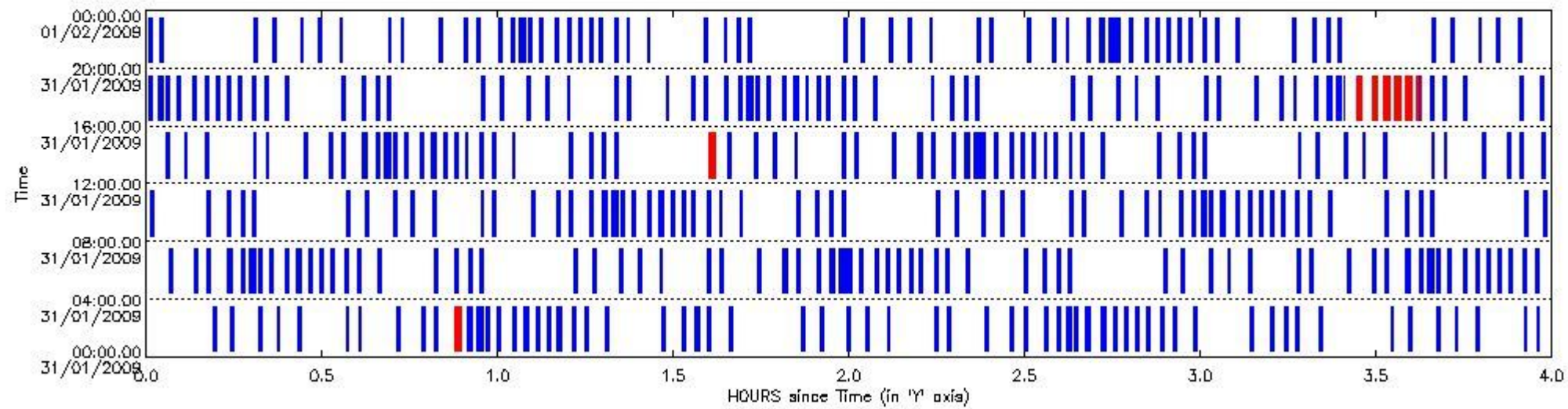
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

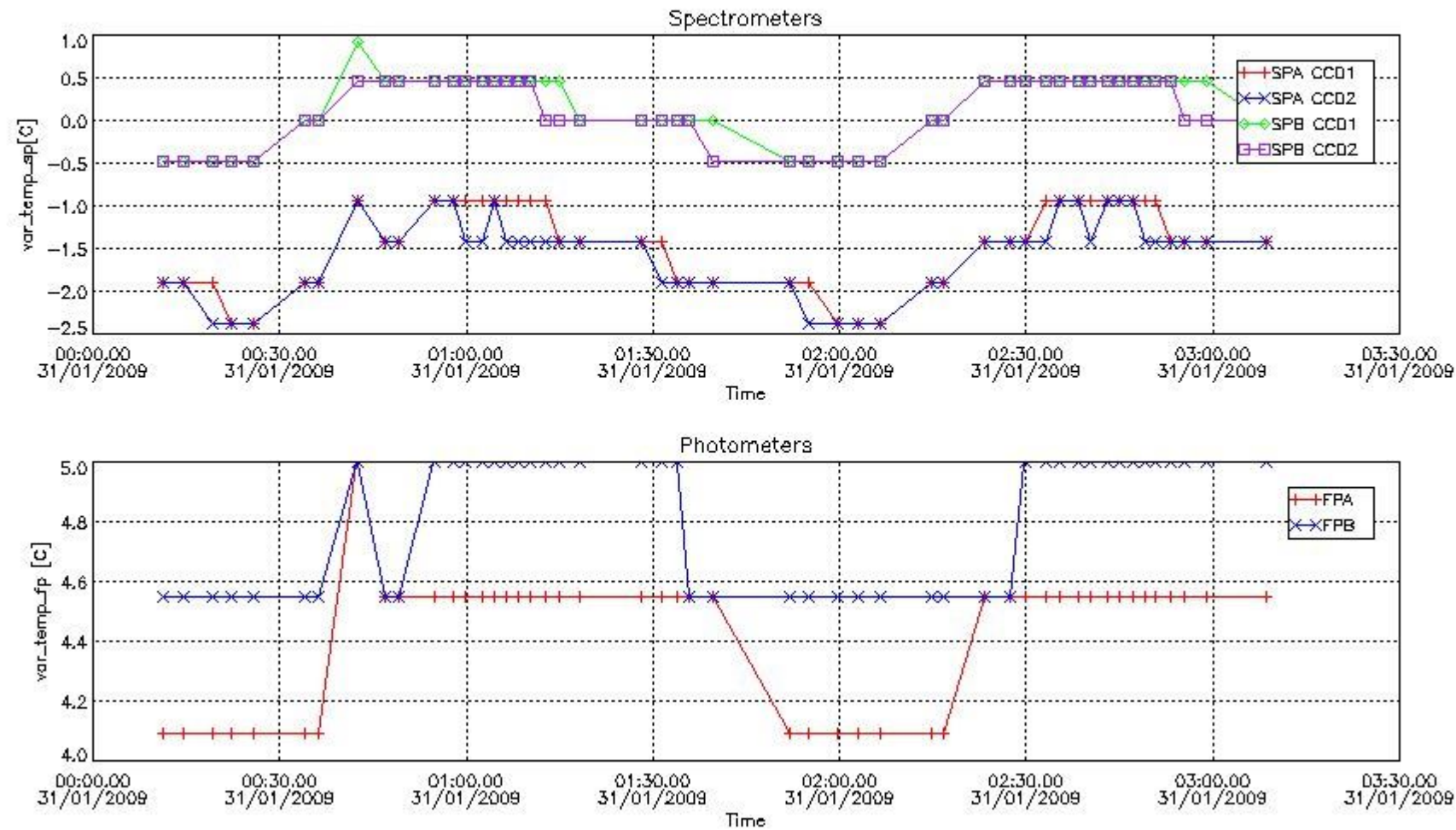
UTC start time	Star name	Star ID	Orbit
31-JAN-2009 00:52:44	GamLup	131	36185
31-JAN-2009 13:36:08	1AlpUMi	49	36193
31-JAN-2009 19:26:35	EpsCen	77	36197
31-JAN-2009 19:29:14	Alp1Cru	12	36197
31-JAN-2009 19:31:15	DelCen	99	36197
31-JAN-2009 19:33:13	UpsCar	159	36197
31-JAN-2009 19:35:08	lotCar	71	36197
31-JAN-2009 19:36:52	DelVel	46	36197

### 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_1PNPDE20090131_001117_000000322076_00059_36185_8863.N1	31-JAN-2009 00:11:17	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	36185	No
2	GOM_TRA_1PNPDE20090131_001426_000000352076_00059_36185_8864.N1	31-JAN-2009 00:14:26	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	36185	No
3	GOM_TRA_1PNPDE20090131_001908_000000332076_00059_36185_8865.N1	31-JAN-2009 00:19:08	Bright	33.000	119	14Eta Dra	2.7270	4700.0	66	36185	No

4	GOM_TRA_1PNPDE20090131_002217_000000312076_00059_36185_8866.N1	31-JAN-2009 00:22:17	Bright	30.500	130	23Bet Dra	2.7990	5800.0	61	36185	No
5	GOM_TRA_1PNPDE20090131_002553_000000282076_00059_36185_8867.N1	31-JAN-2009 00:25:53	Bright	28.000	5	3Alp Lyr	0.033000	11000.	56	36185	No
6	GOM_TRA_1PNPDE20090131_003404_000000312076_00059_36185_8868.N1	31-JAN-2009 00:34:04	Bright	30.500	59	55Alp Oph	2.0800	8900.0	61	36185	No
7	GOM_TRA_1PNPDE20090131_003612_000000302076_00059_36185_8869.N1	31-JAN-2009 00:36:12	Bright	30.000	126	60Bet Oph	2.7700	4250.0	60	36185	No
8	GOM_TRA_1PNPDE20090131_004238_000000342076_00059_36185_8992.N1	31-JAN-2009 00:42:38	Tw_i_and_stray	33.500	86	35Eta Oph	2.4300	10200.	67	36185	No
9	GOM_TRA_1PNPDE20090131_004655_000000382076_00059_36185_8993.N1	31-JAN-2009 00:46:55	Dark	38.000	16	21Alp Sco	1.0200	3000.0	76	36185	No
10	GOM_TRA_1PNPDE20090131_004912_000000332076_00059_36185_8994.N1	31-JAN-2009 00:49:12	Dark	32.500	40	The Sco	1.8590	7100.0	65	36185	No
11	GOM_TRA_1PNPDE20090131_005453_000000432076_00060_36186_8995.N1	31-JAN-2009 00:54:53	Dark	42.500	109	Bet Lup	2.6770	26000.	85	36186	No
12	GOM_TRA_1PNPDE20090131_005754_000000392076_00060_36186_8996.N1	31-JAN-2009 00:57:54	Dark	39.000	4	Alp1Cen	-0.010000	5800.0	78	36186	No
13	GOM_TRA_1PNPDE20090131_005948_000000422076_00060_36186_8997.N1	31-JAN-2009 00:59:48	Dark	42.000	77	Eps Cen	2.3030	28000.	84	36186	No
14	GOM_TRA_1PNPDE20090131_010230_000000382076_00060_36186_8998.N1	31-JAN-2009 01:02:30	Dark	38.000	12	Alp1Cru	0.77500	30000.	76	36186	No
15	GOM_TRA_1PNPDE20090131_010429_000000442076_00060_36186_8999.N1	31-JAN-2009 01:04:29	Dark	44.000	99	Del Cen	2.5750	26000.	88	36186	No
16	GOM_TRA_1PNPDE20090131_010631_000000352076_00060_36186_9000.N1	31-JAN-2009 01:06:31	Dark	34.500	159	Ups Car	2.9200	7200.0	69	36186	No
17	GOM_TRA_1PNPDE20090131_010826_000000352076_00060_36186_9001.N1	31-JAN-2009 01:08:26	Dark	34.500	71	lot Car	2.2460	7700.0	69	36186	No
18	GOM_TRA_1PNPDE20090131_011011_000000342076_00060_36186_9002.N1	31-JAN-2009 01:10:11	Dark	33.500	46	Del Vel	1.9540	10600.	67	36186	No
19	GOM_TRA_1PNPDE20090131_011243_000000342076_00060_36186_9003.N1	31-JAN-2009 01:12:43	Dark	33.500	34	Gam2Vel	1.7930	23000.	67	36186	No
20	GOM_TRA_1PNPDE20090131_011448_000000342076_00060_36186_9004.N1	31-JAN-2009 01:14:48	Straylight	33.500	70	Zet Pup	2.2460	39000.	67	36186	No
21	GOM_TRA_1PNPDE20090131_011816_000000332076_00060_36186_9005.N1	31-JAN-2009 01:18:16	Straylight	32.500	88	31Eta CMa	2.4480	20000.	65	36186	No
22	GOM_TRA_1PNPDE20090131_012758_000000362076_00060_36186_9006.N1	31-JAN-2009 01:27:58	Tw_i_and_stray	35.500	8	10Alp CMi	0.40000	6500.0	71	36186	No
23	GOM_TRA_1PNPDE20090131_013123_000000342076_00060_36186_9007.N1	31-JAN-2009 01:31:23	Bright	34.000	44	24Gam Gem	1.9280	11000.	68	36186	No
24	GOM_TRA_1PNPDE20090131_013345_000000352076_00060_36186_9008.N1	31-JAN-2009 01:33:45	Bright	35.000	170	27Eps Gem	3.0000	9700.0	70	36186	No
25	GOM_TRA_1PNPDE20090131_013542_000000392076_00060_36186_9009.N1	31-JAN-2009 01:35:42	Bright	38.500	24	66Alp Gem	1.5800	10200.	77	36186	No
26	GOM_TRA_1PNPDE20090131_013936_000000352076_00060_36186_9010.N1	31-JAN-2009 01:39:36	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	36186	No
27	GOM_TRA_1PNPDE20090131_015153_000000322076_00060_36186_9011.N1	31-JAN-2009 01:51:53	Bright	31.500	49	1Alp UMi	1.9900	6300.0	63	36186	No
28	GOM_TRA_1PNPDE20090131_015501_000000342076_00060_36186_9012.N1	31-JAN-2009 01:55:01	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	36186	No
29	GOM_TRA_1PNPDE20090131_015944_000000322076_00060_36186_9013.N1	31-JAN-2009 01:59:44	Bright	32.000	119	14Eta Dra	2.7270	4700.0	64	36186	No
30	GOM_TRA_1PNPDE20090131_020253_000000292076_00060_36186_9014.N1	31-JAN-2009 02:02:53	Bright	29.000	130	23Bet Dra	2.7990	5800.0	58	36186	No
31	GOM_TRA_1PNPDE20090131_020629_000000272076_00060_36186_9015.N1	31-JAN-2009 02:06:29	Bright	27.000	5	3Alp Lyr	0.033000	11000.	54	36186	No
32	GOM_TRA_1PNPDE20090131_021440_000000292076_00060_36186_9016.N1	31-JAN-2009 02:14:40	Bright	29.000	59	55Alp Oph	2.0800	8900.0	58	36186	No
33	GOM_TRA_1PNPDE20090131_021648_000000292076_00060_36186_9017.N1	31-JAN-2009 02:16:48	Bright	28.500	126	60Bet Oph	2.7700	4250.0	57	36186	No
34	GOM_TRA_1PNPDE20090131_022314_000000332076_00060_36186_9128.N1	31-JAN-2009 02:23:14	Tw_i_and_stray	33.000	86	35Eta Oph	2.4300	10200.	66	36186	No
35	GOM_TRA_1PNPDE20090131_022731_000000372076_00060_36186_9129.N1	31-JAN-2009 02:27:31	Dark	37.000	16	21Alp Sco	1.0200	3000.0	74	36186	No
36	GOM_TRA_1PNPDE20090131_022948_000000322076_00060_36186_9130.N1	31-JAN-2009 02:29:48	Dark	31.500	40	The Sco	1.8590	7100.0	63	36186	No
37	GOM_TRA_1PNPDE20090131_023318_000000392076_00060_36186_9131.N1	31-JAN-2009 02:33:18	Dark	39.000	131	Gam Lup	2.8000	26000.	78	36186	No
38	GOM_TRA_1PNPDE20090131_023530_000000422076_00061_36187_9132.N1	31-JAN-2009 02:35:30	Dark	42.000	109	Bet Lup	2.6770	26000.	84	36187	No
39	GOM_TRA_1PNPDE20090131_023831_000000382076_00061_36187_9133.N1	31-JAN-2009 02:38:31	Dark	37.500	4	Alp1Cen	-0.010000	5800.0	75	36187	No
40	GOM_TRA_1PNPDE20090131_024025_000000402076_00061_36187_9134.N1	31-JAN-2009 02:40:25	Dark	40.000	77	Eps Cen	2.3030	28000.	80	36187	No
41	GOM_TRA_1PNPDE20090131_024307_000000362076_00061_36187_9135.N1	31-JAN-2009 02:43:07	Dark	36.000	12	Alp1Cru	0.77500	30000.	72	36187	No
42	GOM_TRA_1PNPDE20090131_024505_000000422076_00061_36187_9136.N1	31-JAN-2009 02:45:05	Dark	41.500	99	Del Cen	2.5750	26000.	83	36187	No
43	GOM_TRA_1PNPDE20090131_024707_000000332076_00061_36187_9137.N1	31-JAN-2009 02:47:07	Dark	33.000	159	Ups Car	2.9200	7200.0	66	36187	No
44	GOM_TRA_1PNPDE20090131_024902_000000332076_00061_36187_9138.N1	31-JAN-2009 02:49:02	Dark	33.000	71	lot Car	2.2460	7700.0	66	36187	No
45	GOM_TRA_1PNPDE20090131_025047_000000332076_00061_36187_9139.N1	31-JAN-2009 02:50:47	Dark	32.500	46	Del Vel	1.9540	10600.	65	36187	No
46	GOM_TRA_1PNPDE20090131_025319_000000322076_00061_36187_9140.N1	31-JAN-2009 02:53:19	Dark	32.000	34	Gam2Vel	1.7930	23000.	64	36187	No
47	GOM_TRA_1PNPDE20090131_025525_000000322076_00061_36187_9141.N1	31-JAN-2009 02:55:25	Straylight	31.500	70	Zet Pup	2.2460	39000.	63	36187	No
48	GOM_TRA_1PNPDE20090131_025852_000000322076_00061_36187_9142.N1	31-JAN-2009 02:58:52	Straylight	31.500	88	31Eta CMa	2.4480	20000.	63	36187	No
49	GOM_TRA_1PNPDE20090131_030834_000000342076_00061_36187_9143.N1	31-JAN-2009 03:08:34	Tw_i_and_stray	34.000	8	10Alp CMi	0.40000	6500.0	68	36187	No

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



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

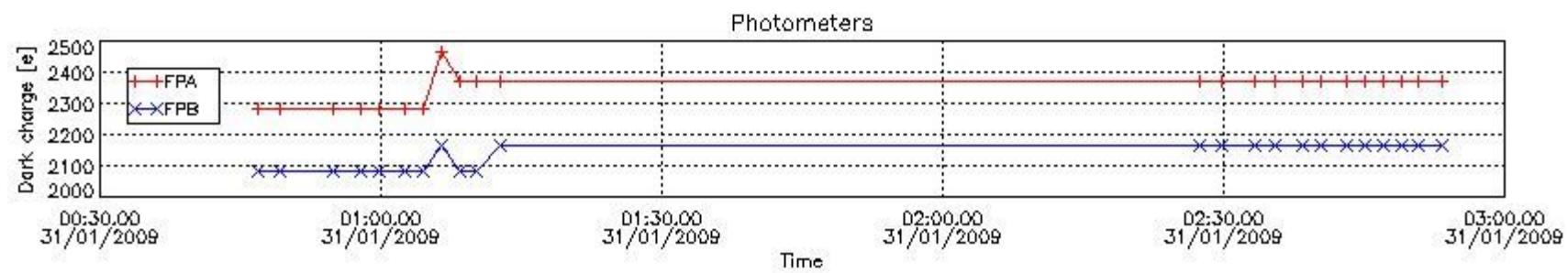
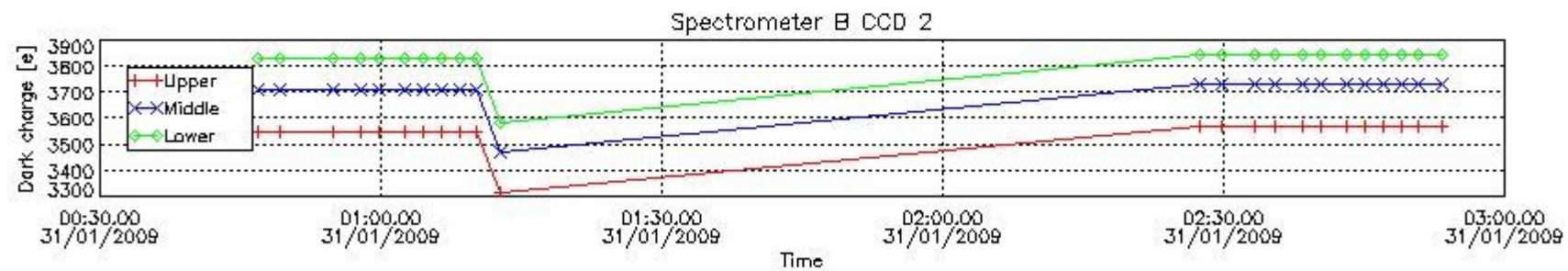
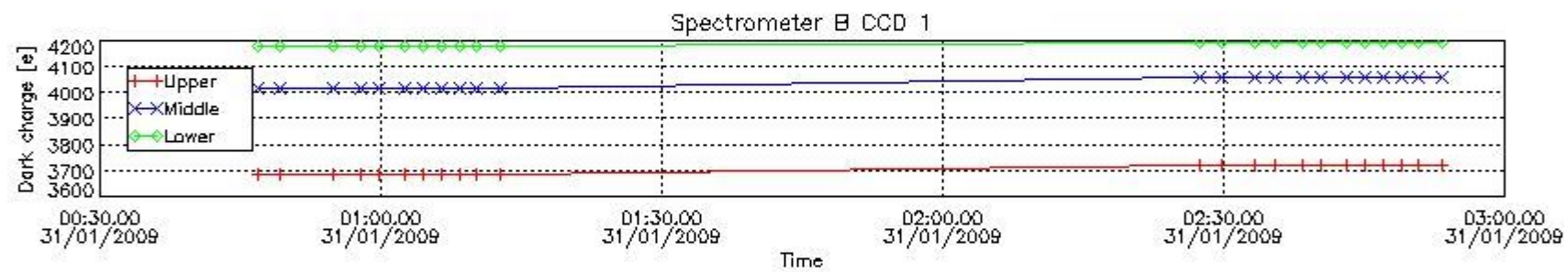
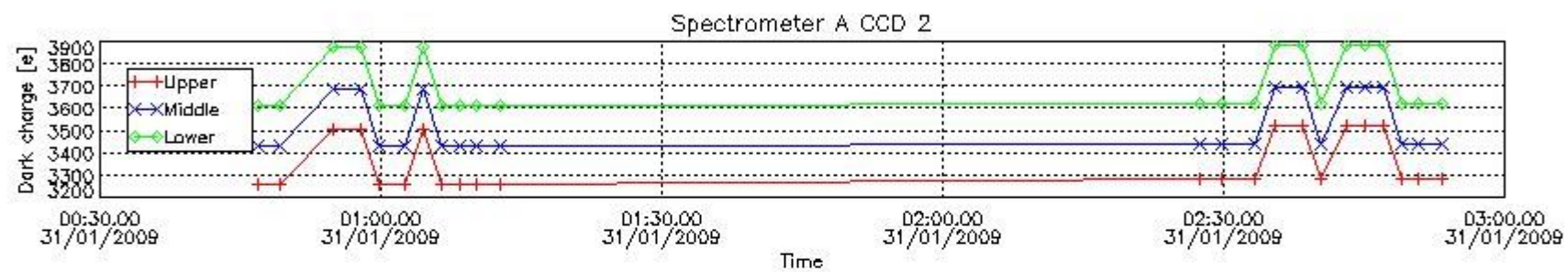
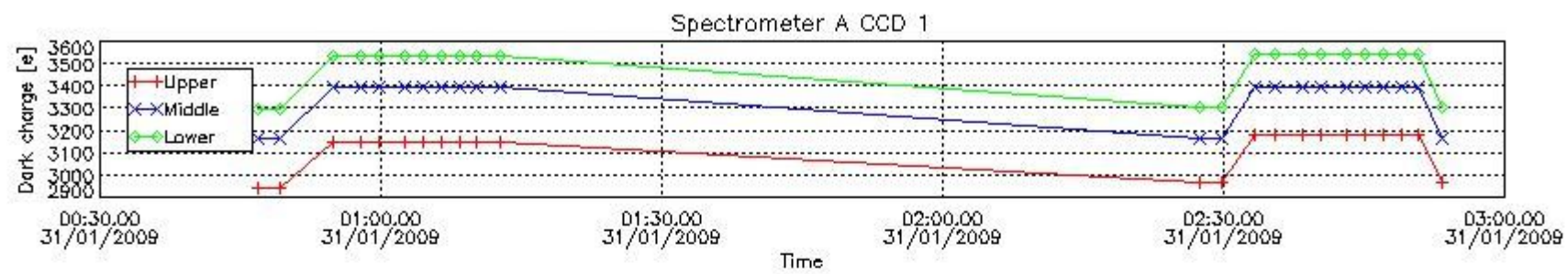
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

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

##### 4.1 All products used the DSA observation for the DC computation

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





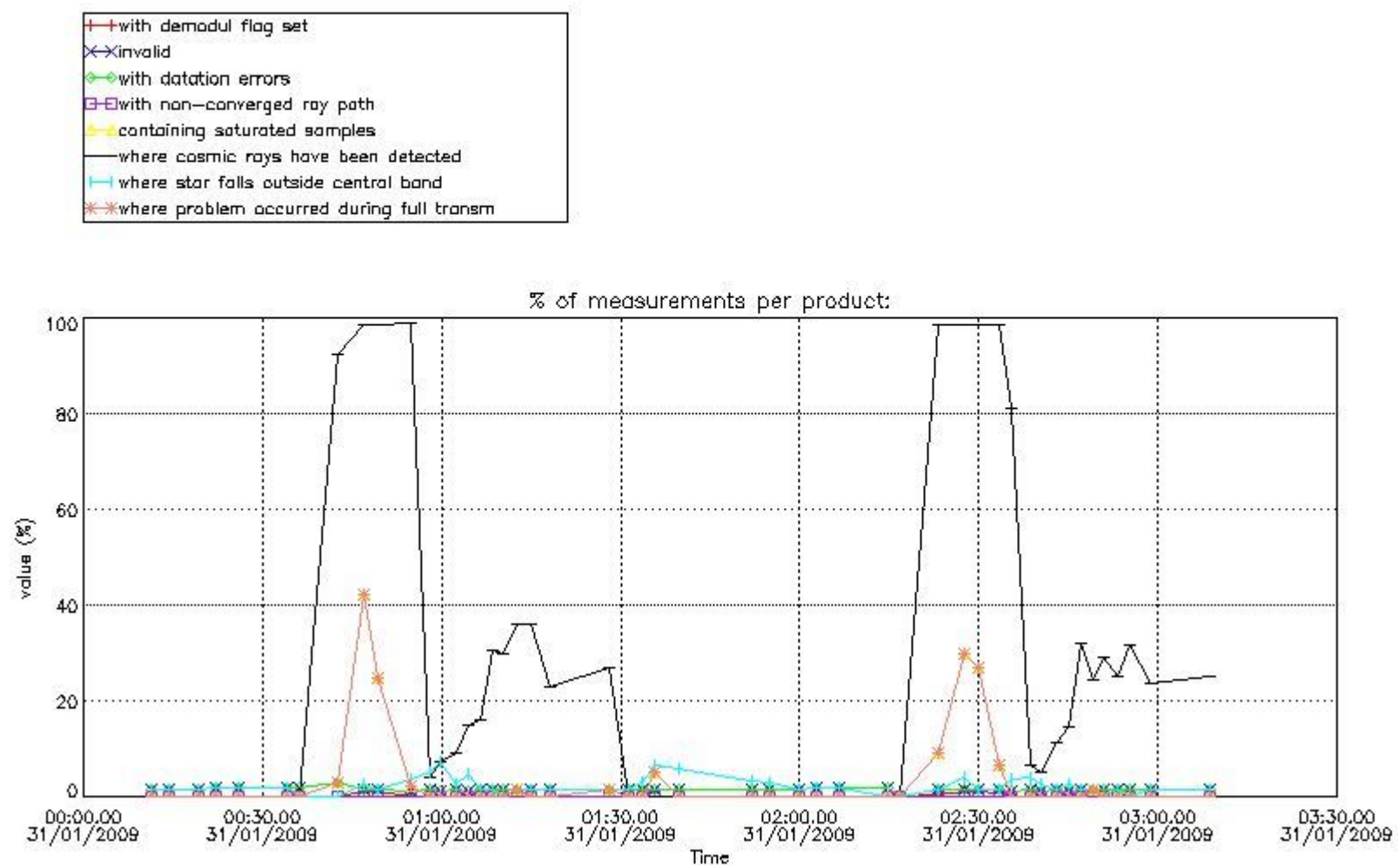
## 5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

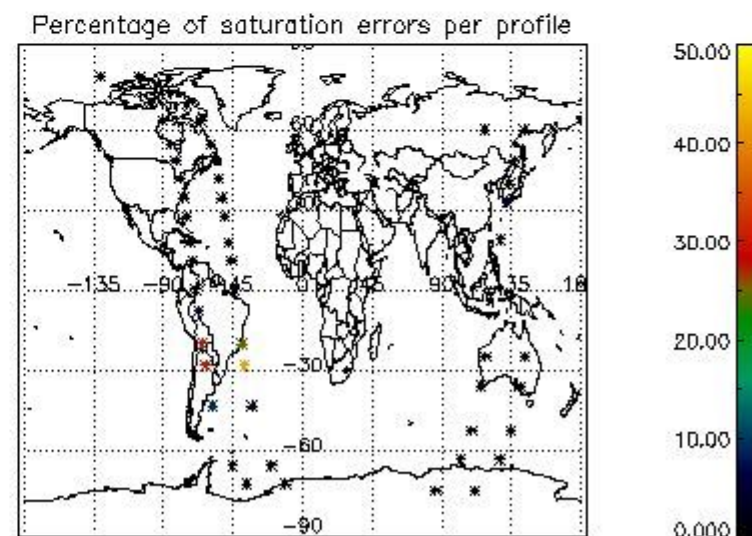
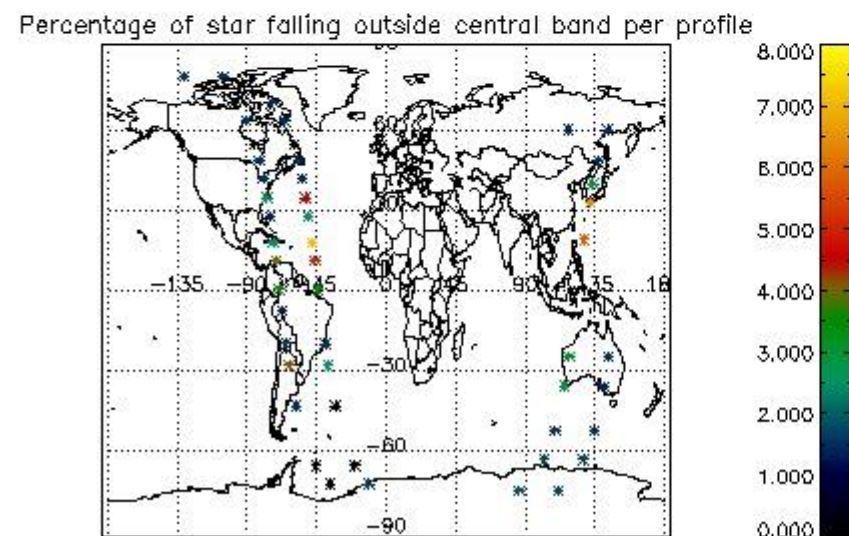
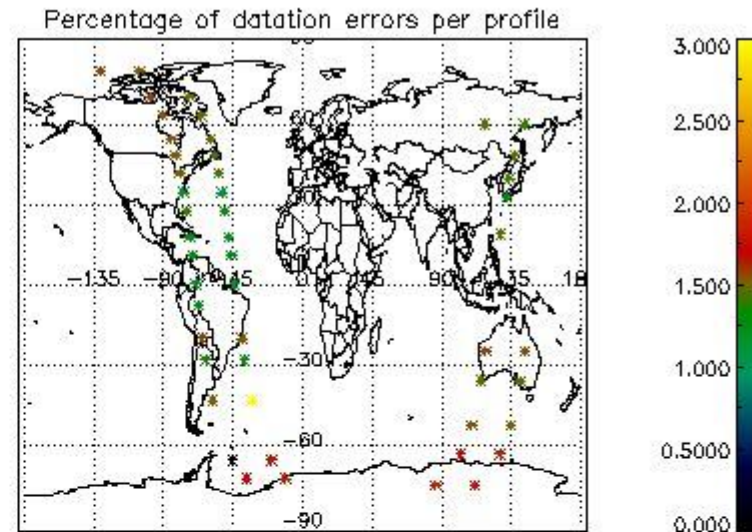
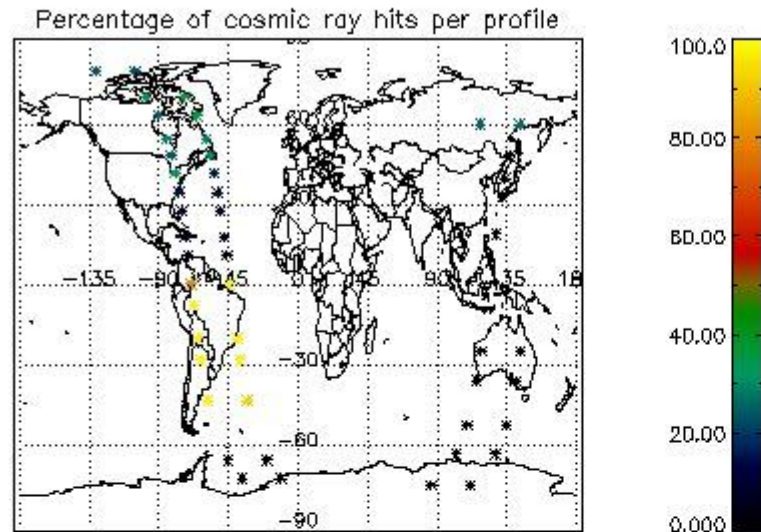
At least one measurement with demodulation flag set:	34.6939 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





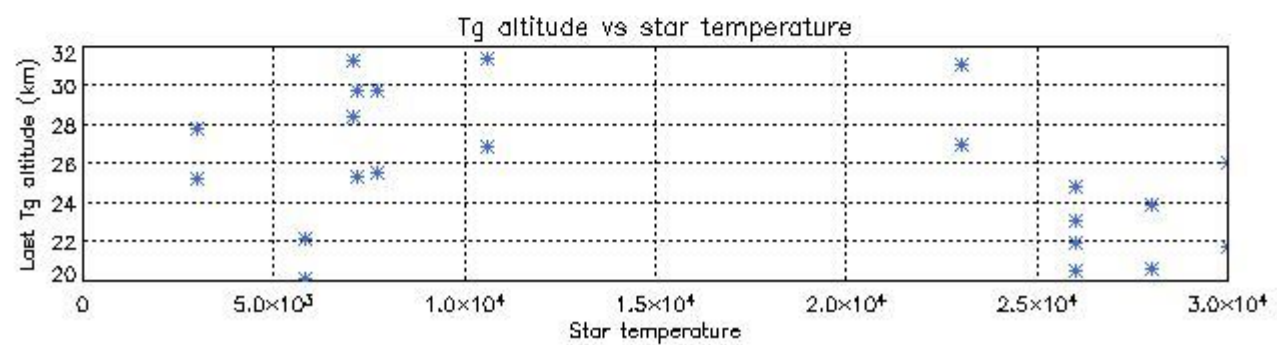
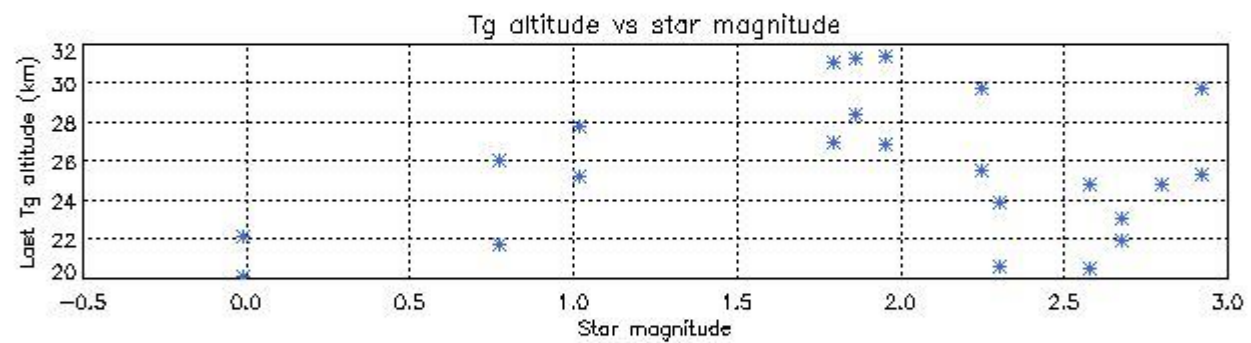
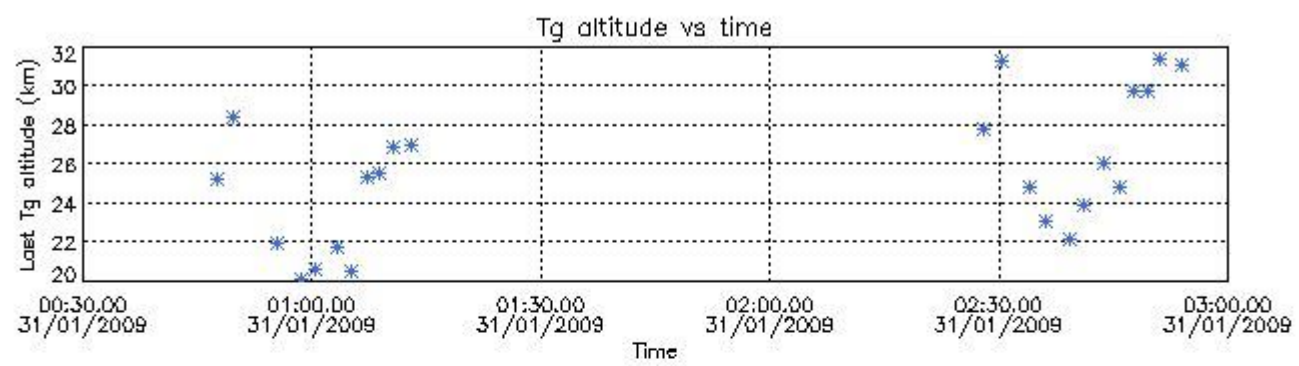
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	25.607	34.641	NaN
St. deviation:	3.5516	7.9578	NaN
Maximum:	31.336	44.748	NaN
Minimum:	20.124	18.755	NaN
Number of data:	23.000	18.000	NaN

### 6.2 Plot for DARK limb products

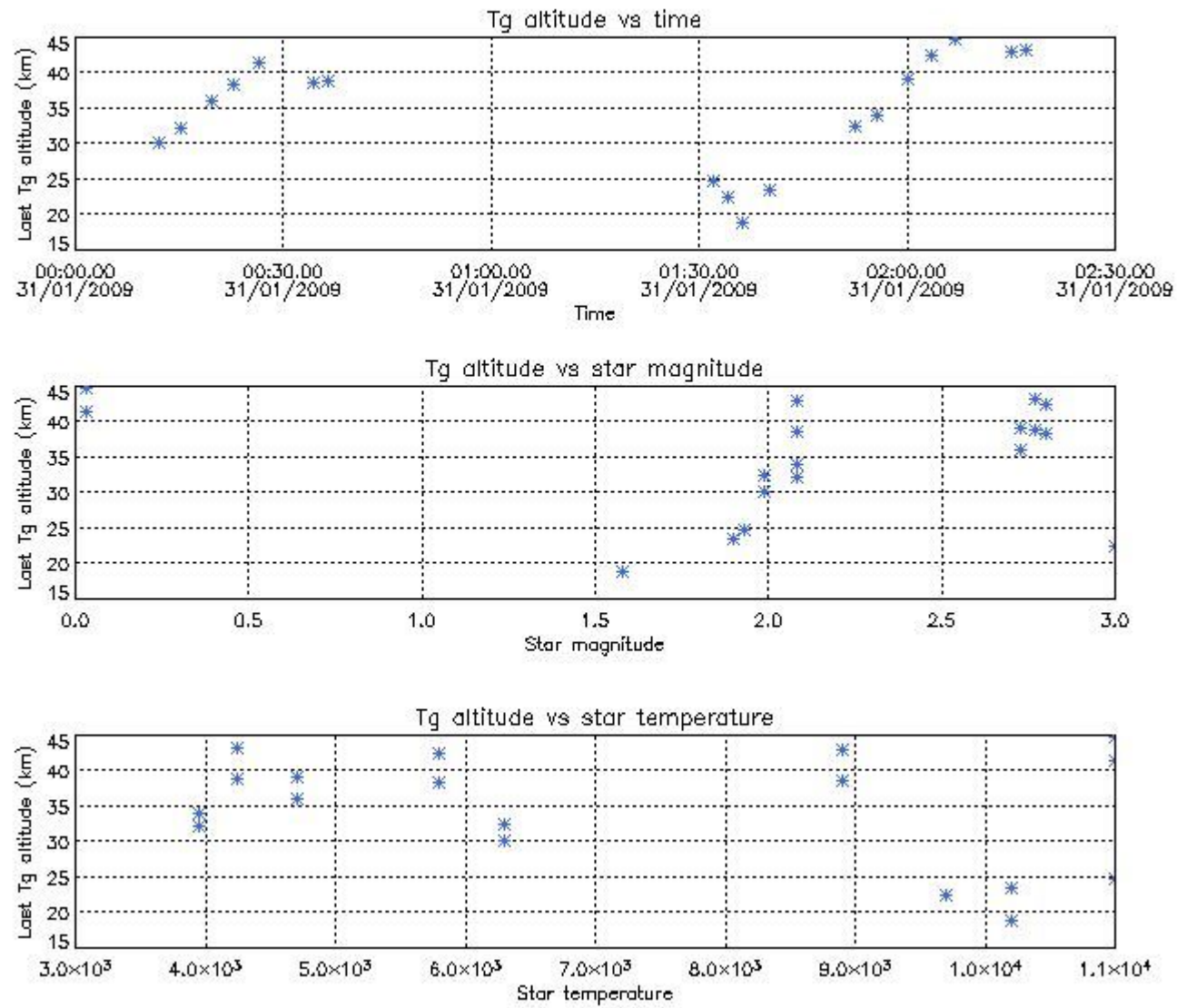
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

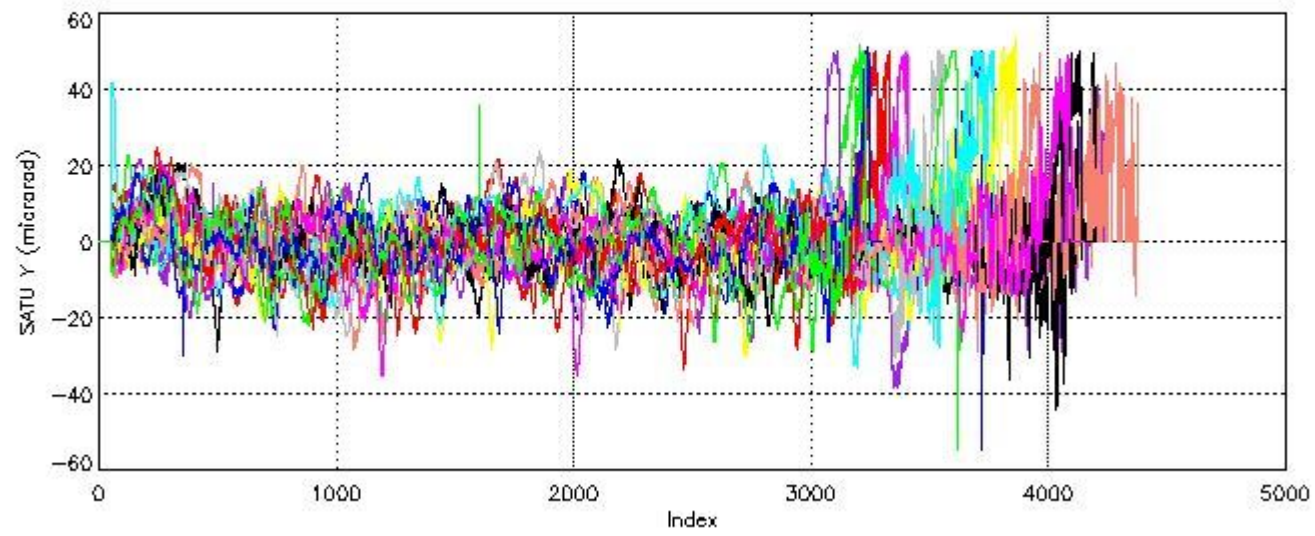
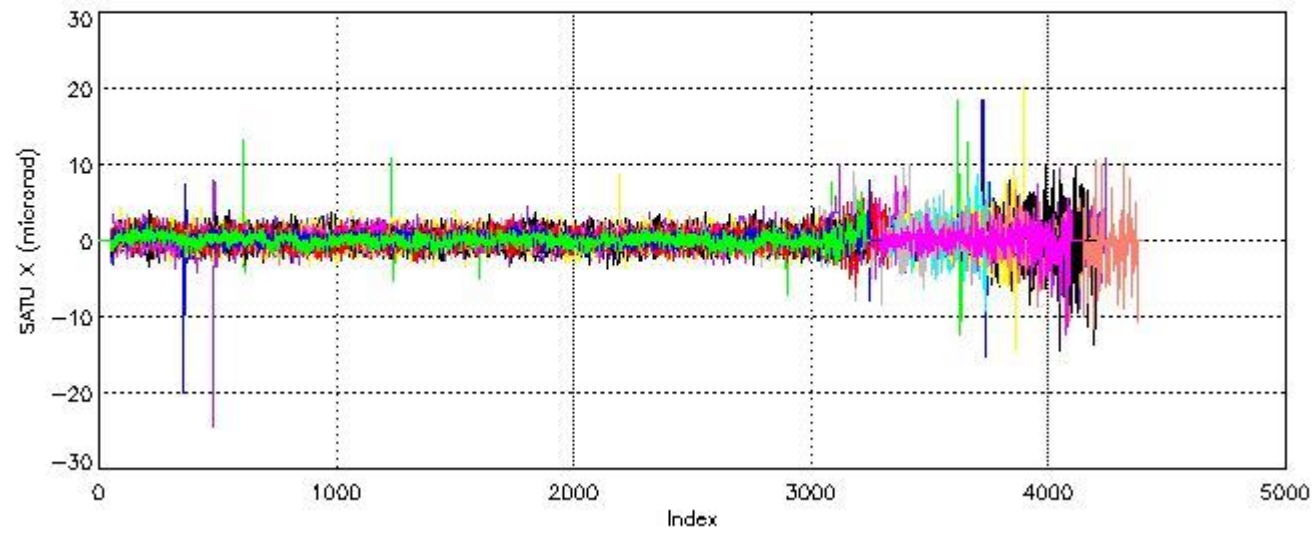


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.17020	0.93300	0.075073	-0.67466
St. deviation:	0.68900	7.2690	0.61551	6.4888
Maximum:	13.100	41.600	3.2000	29.400
Minimum:	-24.500	-29.000	-2.7000	-24.700

Number of data:	21650.	21650.	15500.	15500.
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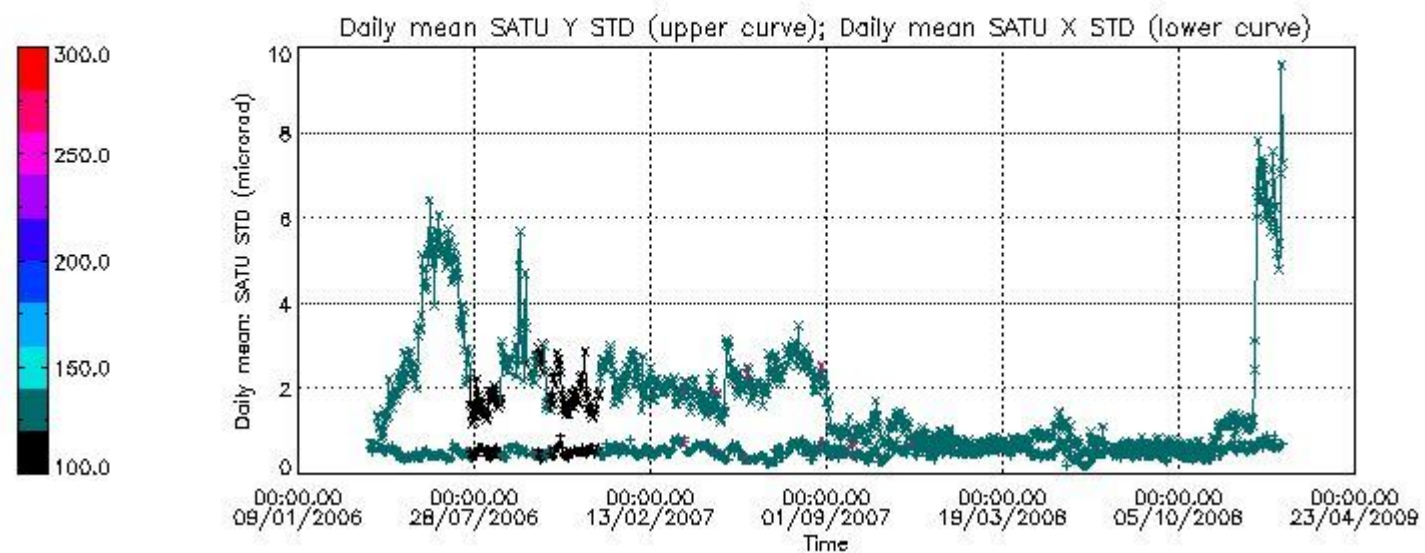
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

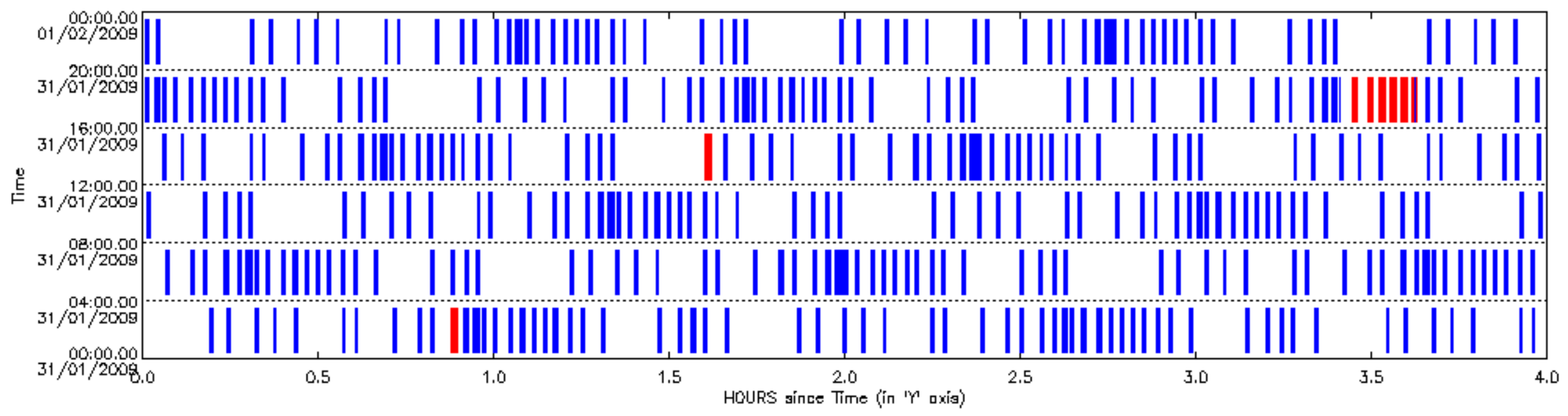


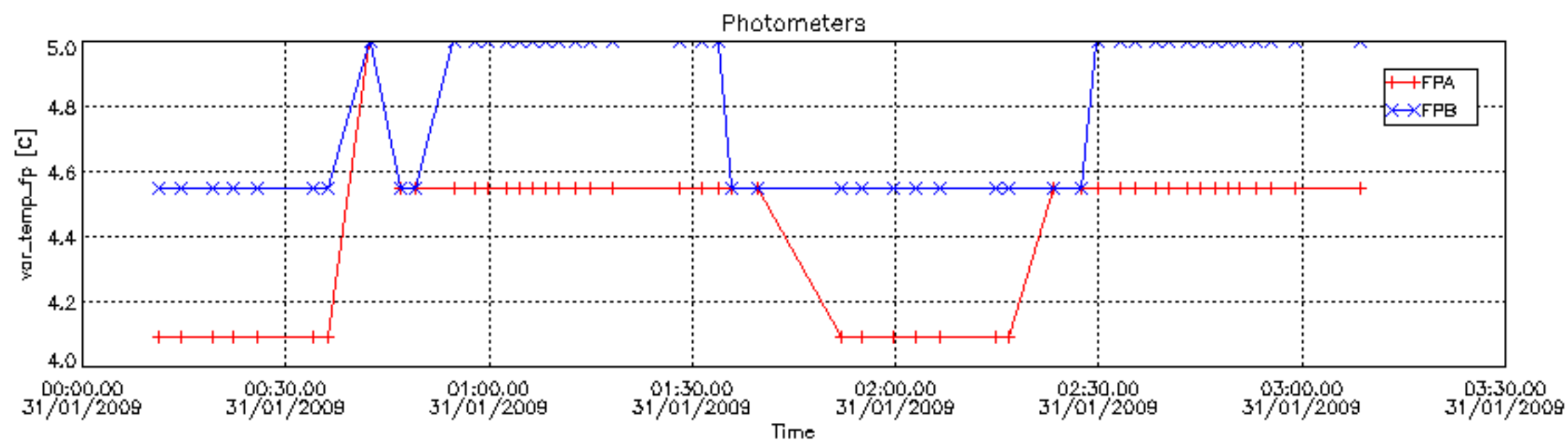
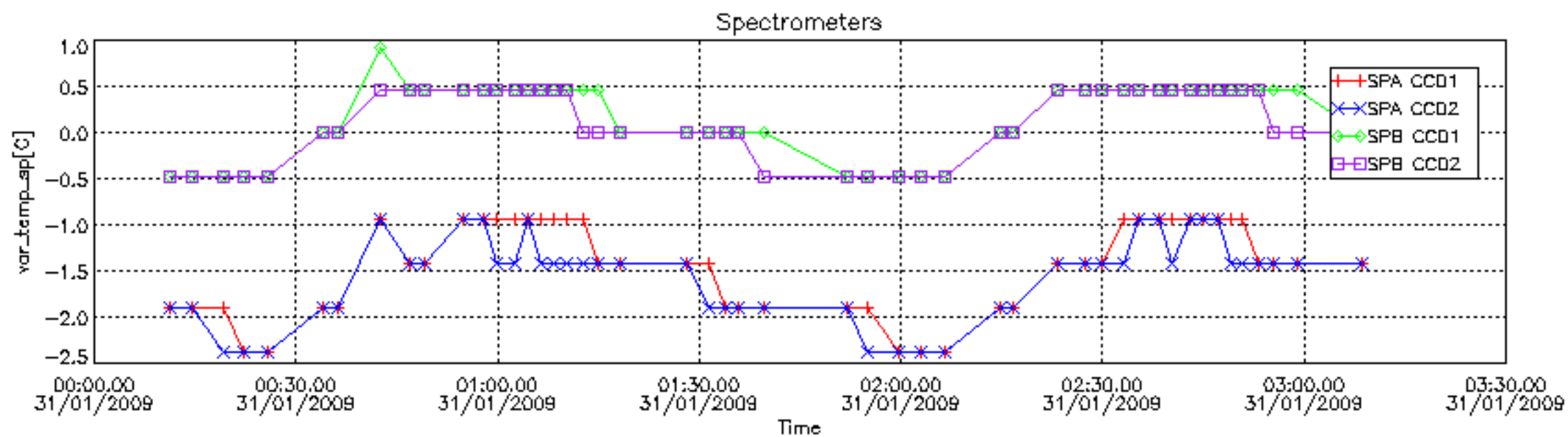
### 8. Auxiliary Data Files used for the production reported in section 2.4

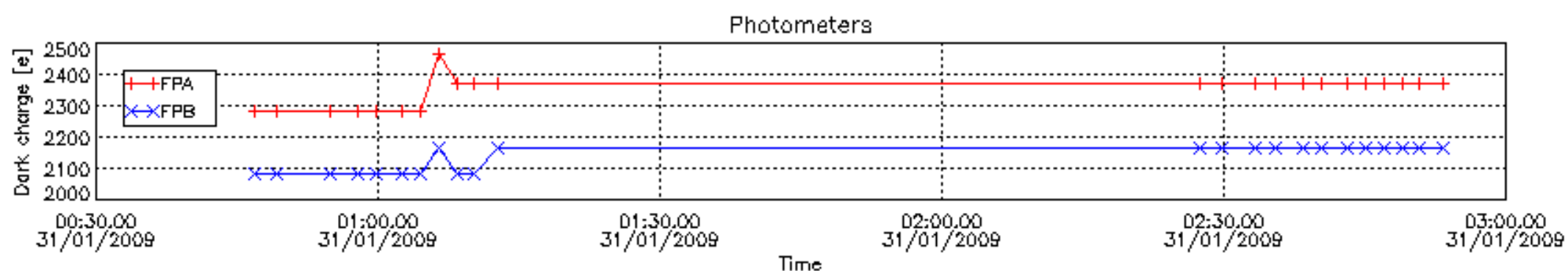
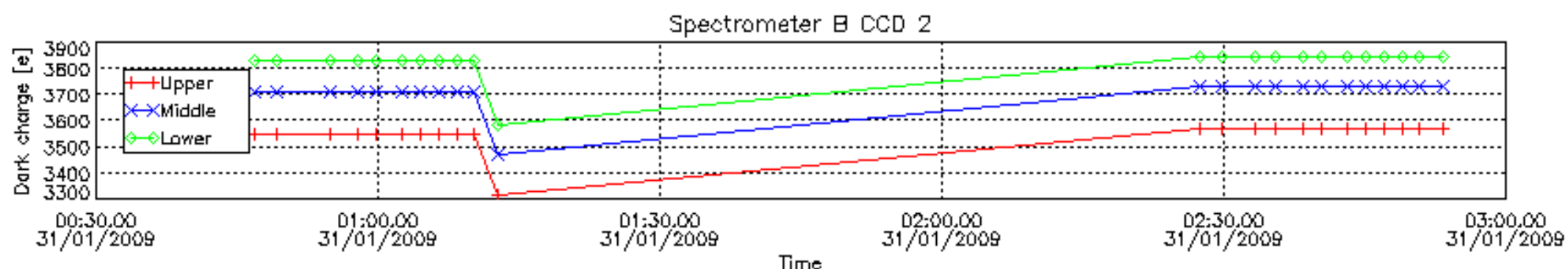
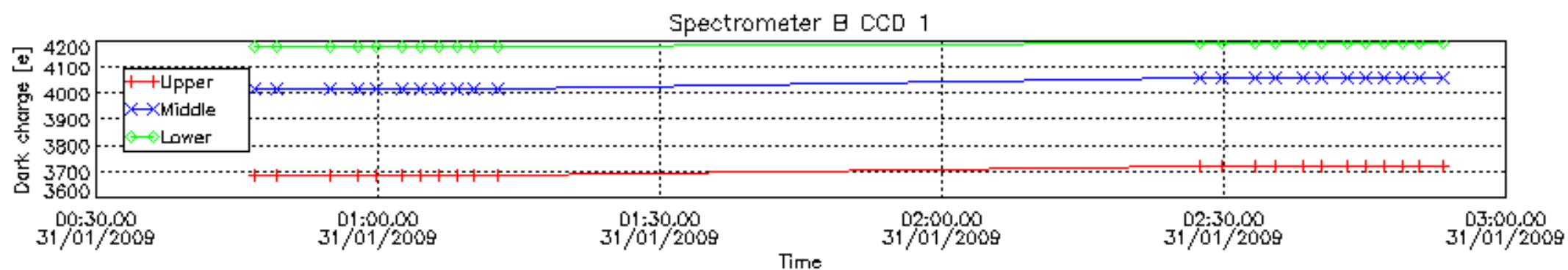
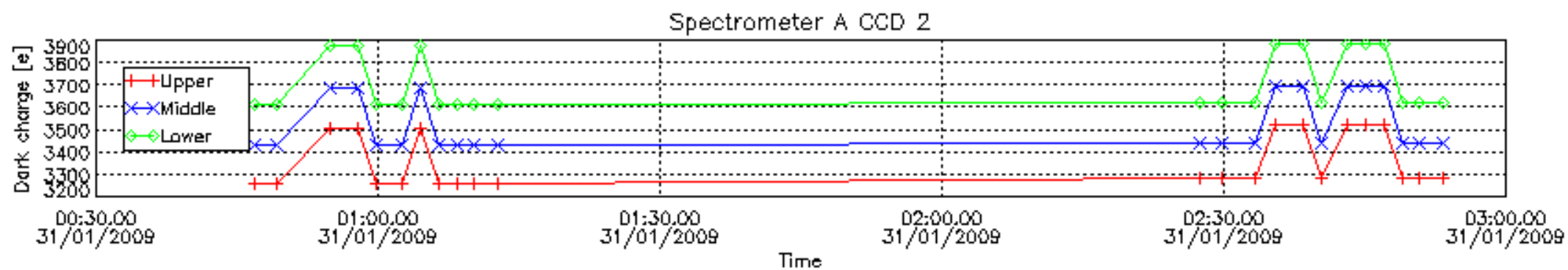
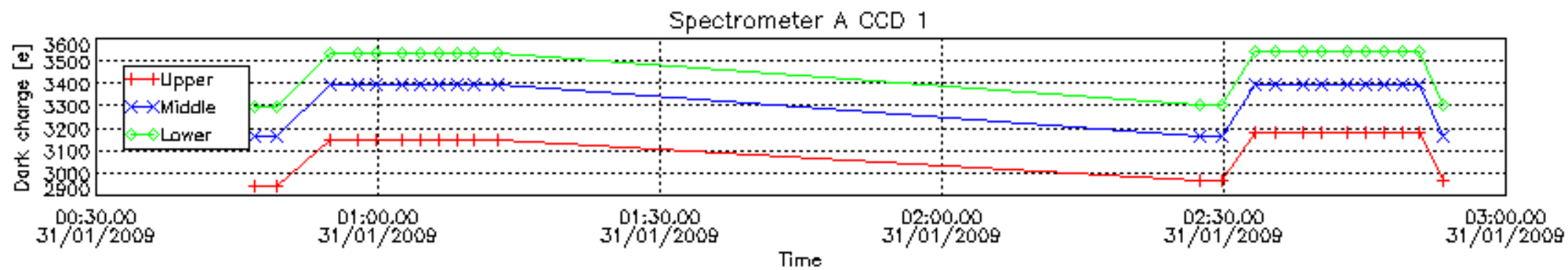
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	31-JAN-2009 00:11:17
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090123_085712_20090120_000000_20100101_000000	1	31-JAN-2009 00:11:17
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	31-JAN-2009 00:11:17
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	31-JAN-2009 00:11:17
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	31-JAN-2009 00:11:17
ECMWF_FILE	AUX_ECF_AXNECM20090130_064111_20090130_210000_20090131_090000	1	31-JAN-2009 00:11:17
OPTIONAL_ECMWF_FILE	MISSING	1	31-JAN-2009 00:11:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090130_211631_000057382076_00057_36183_7266.N1	1	31-JAN-2009 00:11:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090130_225728_000057382076_00058_36184_7267.N1	8	31-JAN-2009 00:42:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090131_003825_000057382076_00059_36185_7268.N1	34	31-JAN-2009 02:23:14

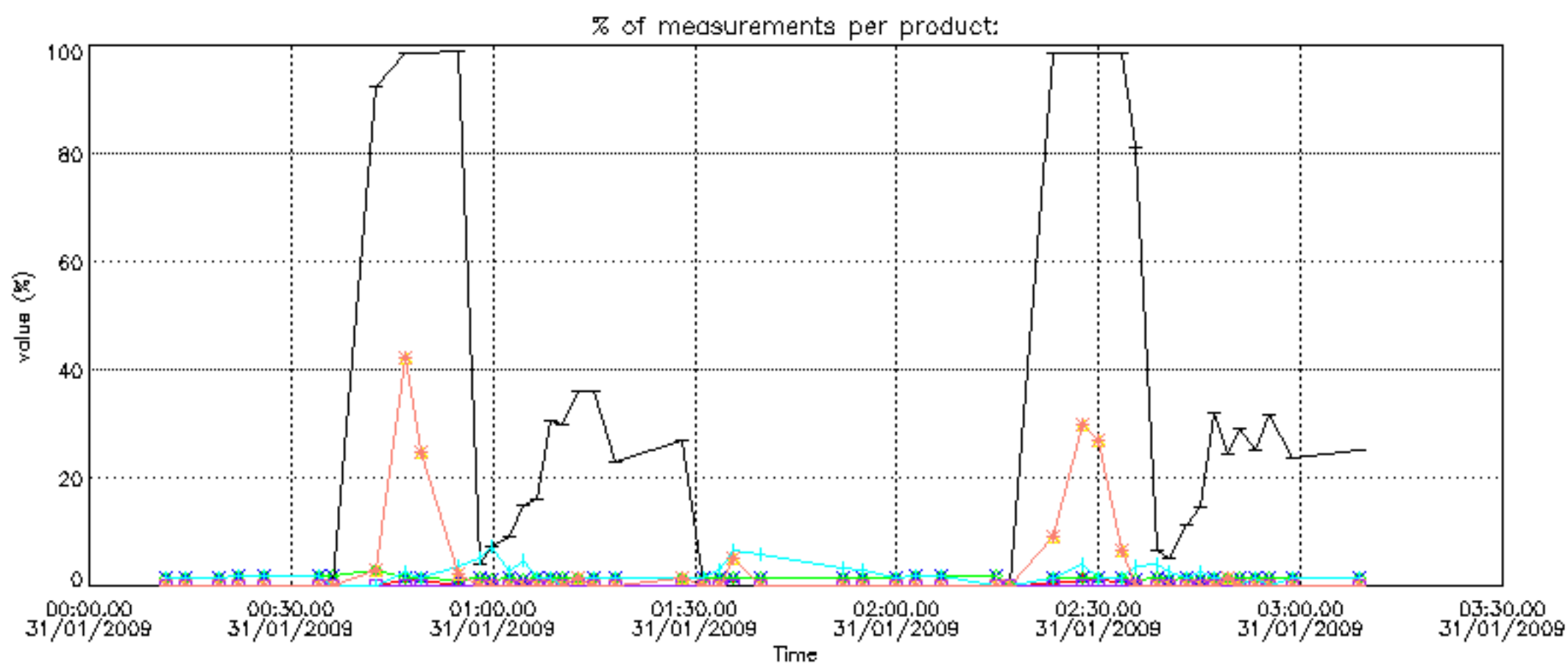




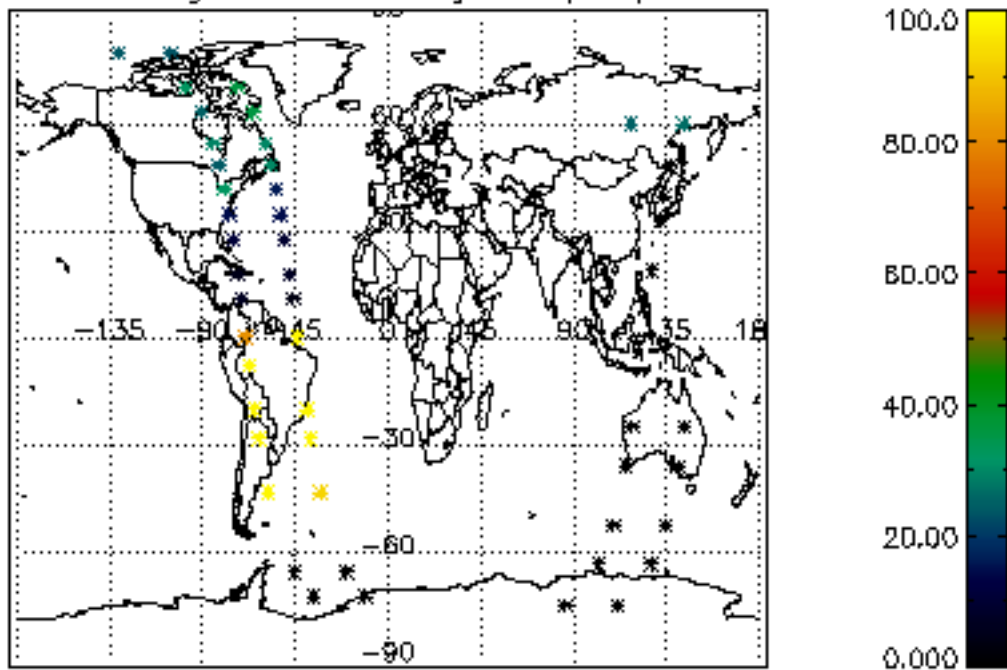




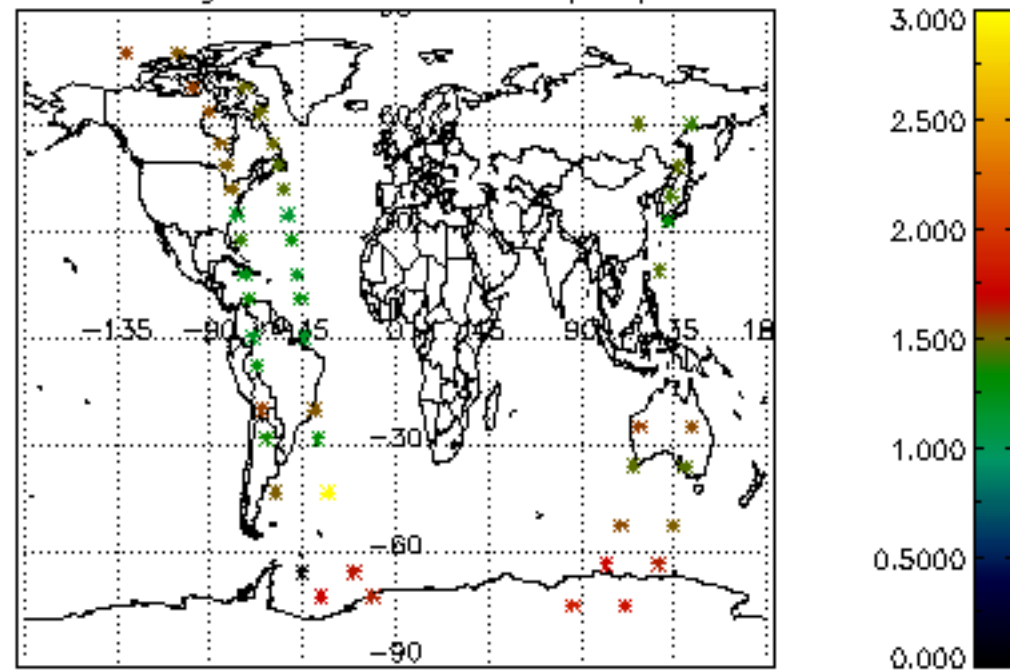




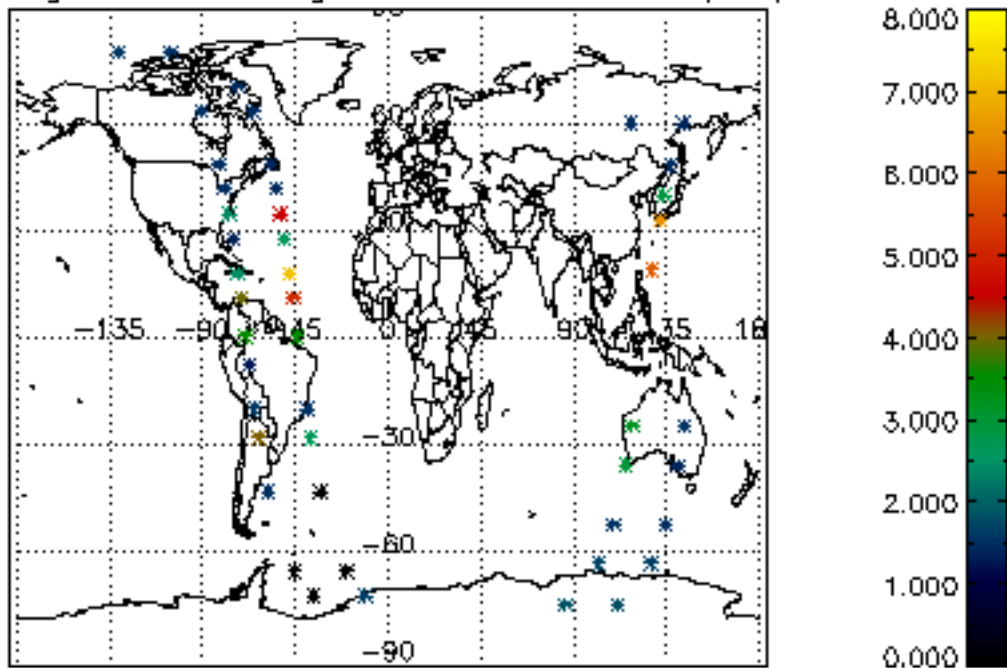
Percentage of cosmic ray hits per profile



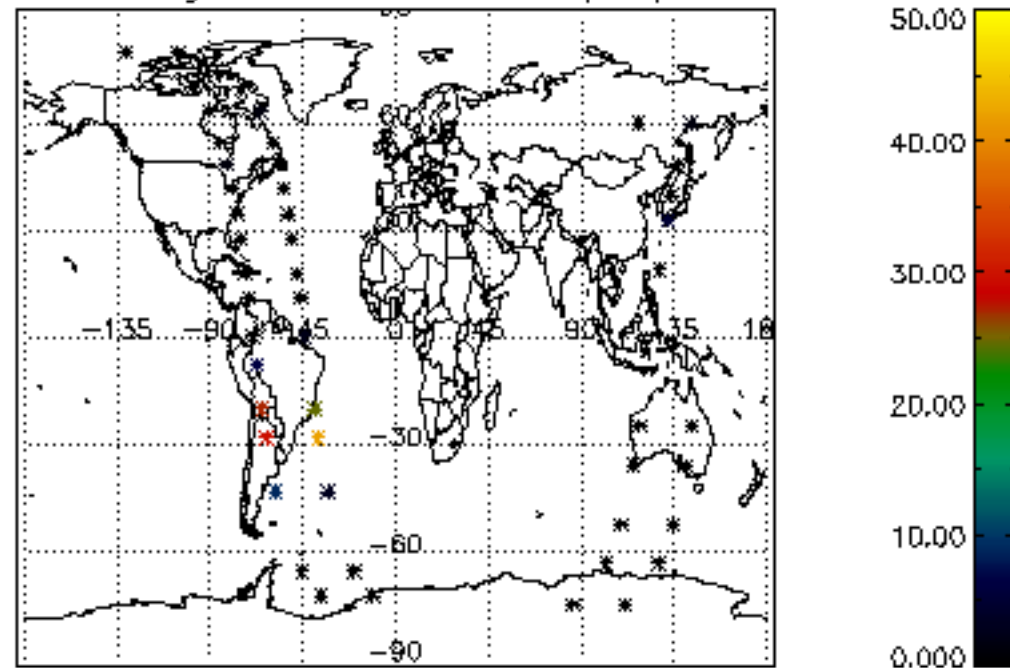
Percentage of datation errors per profile



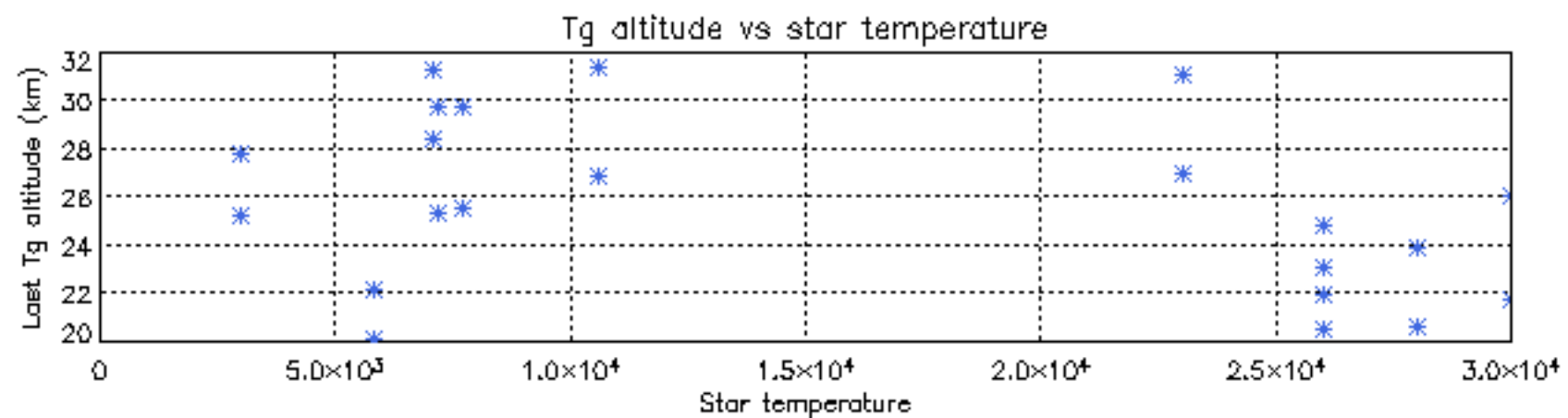
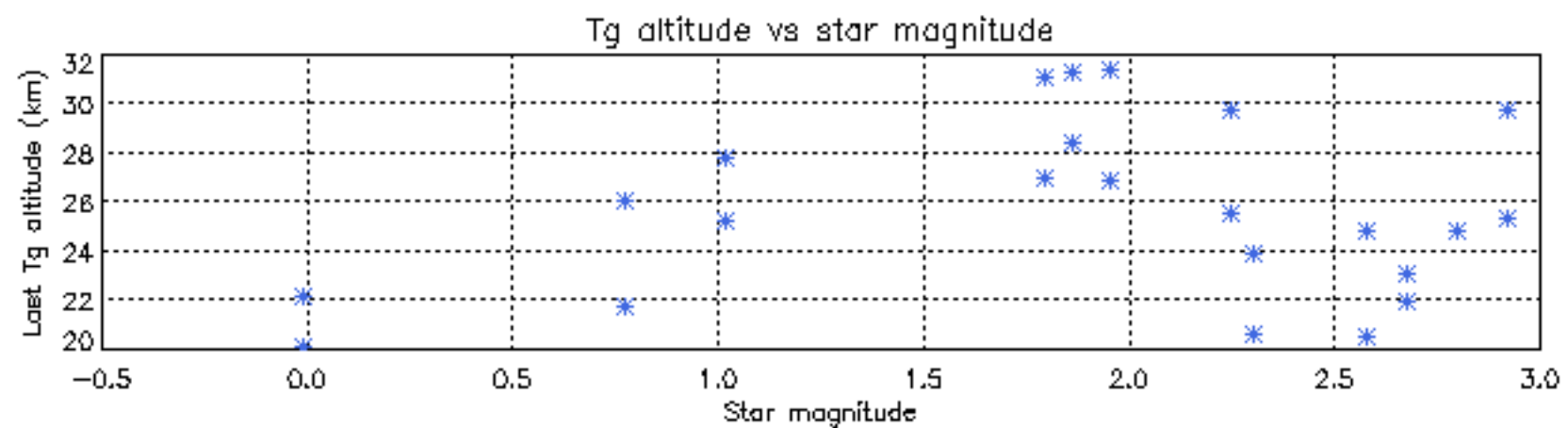
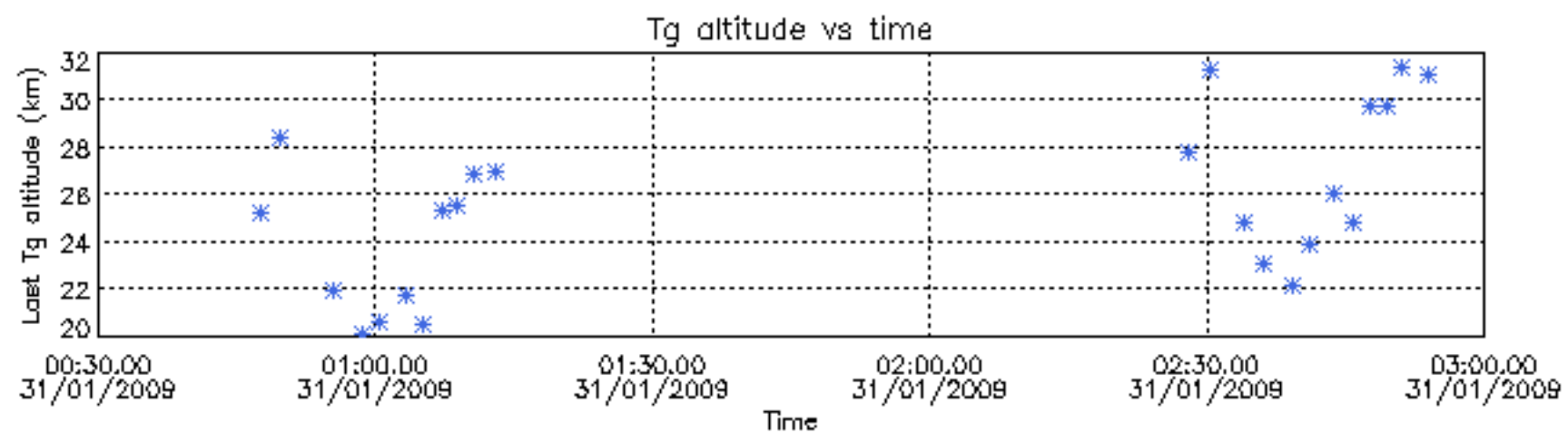
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

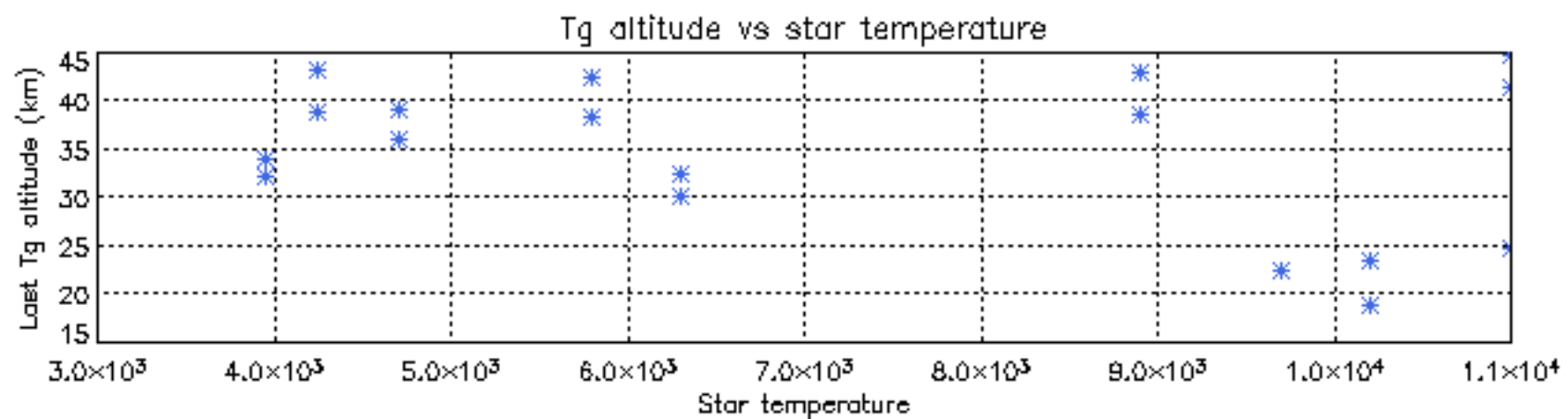
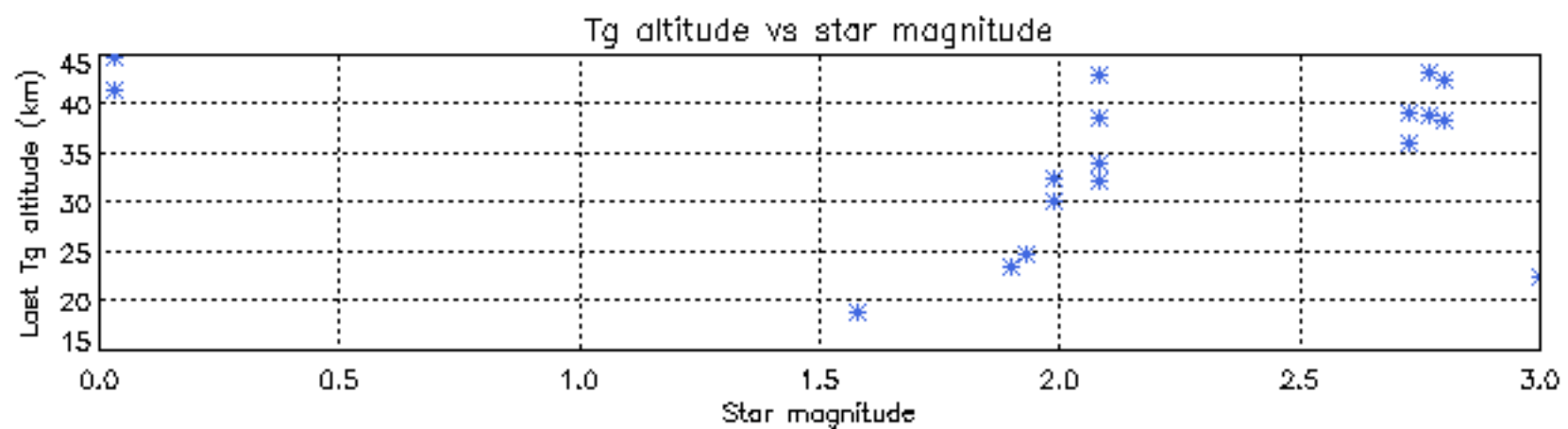
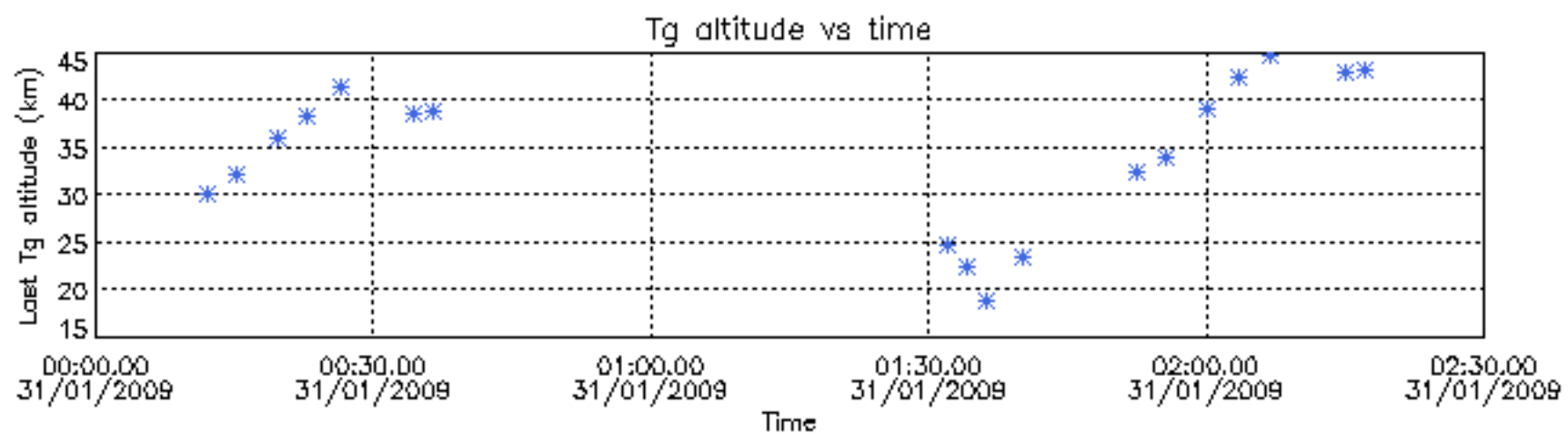


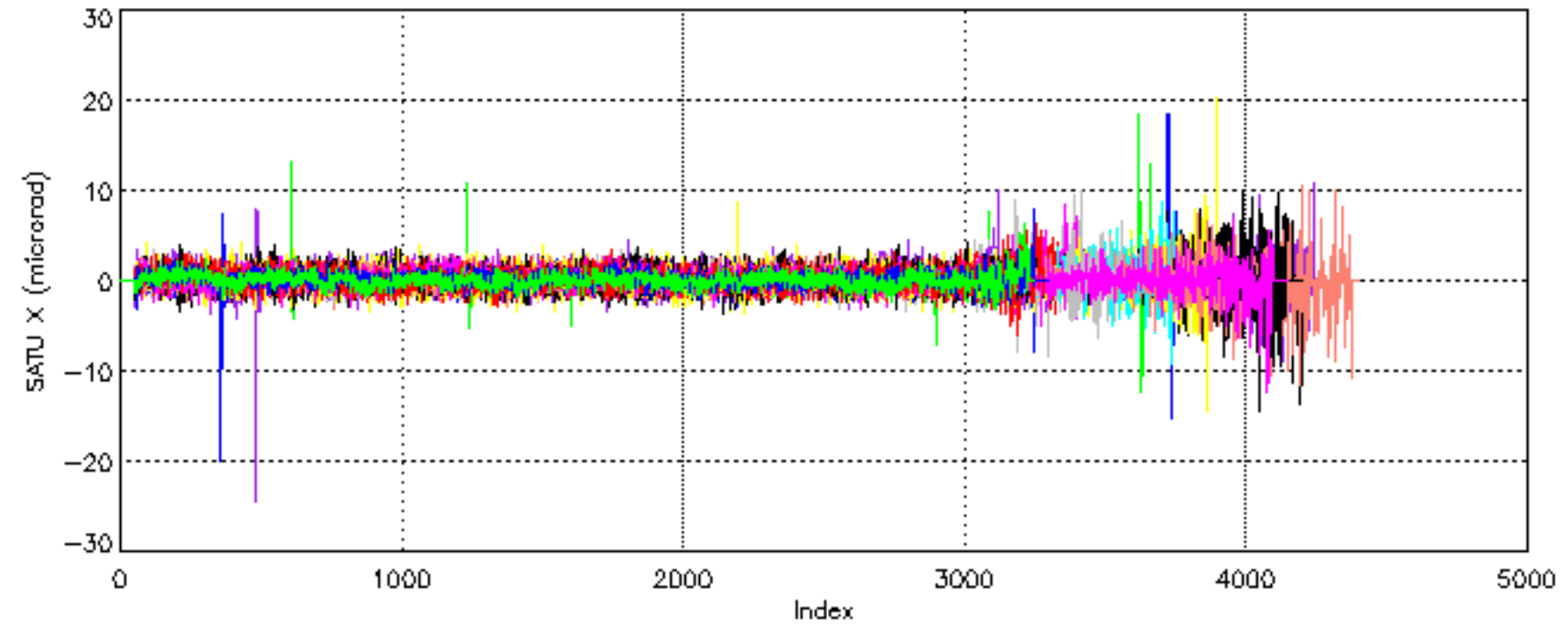
Tangent altitude at which the star is lost

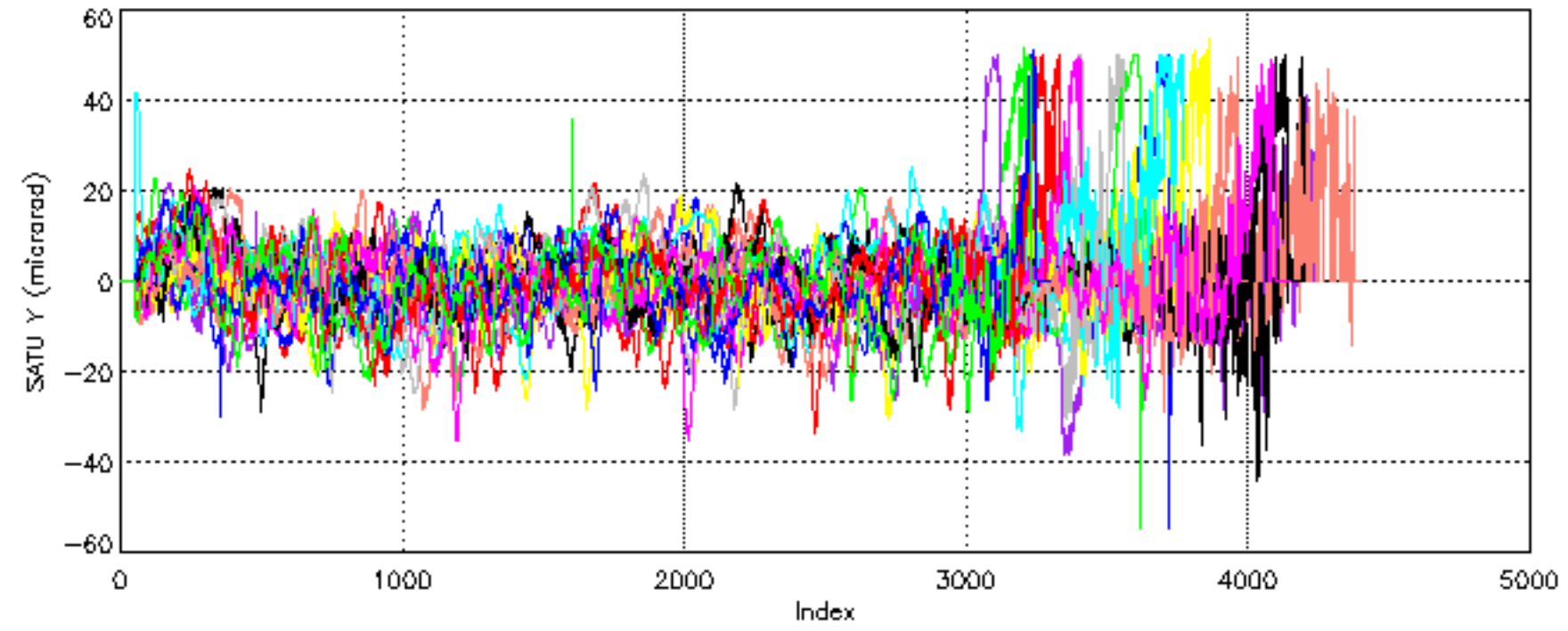




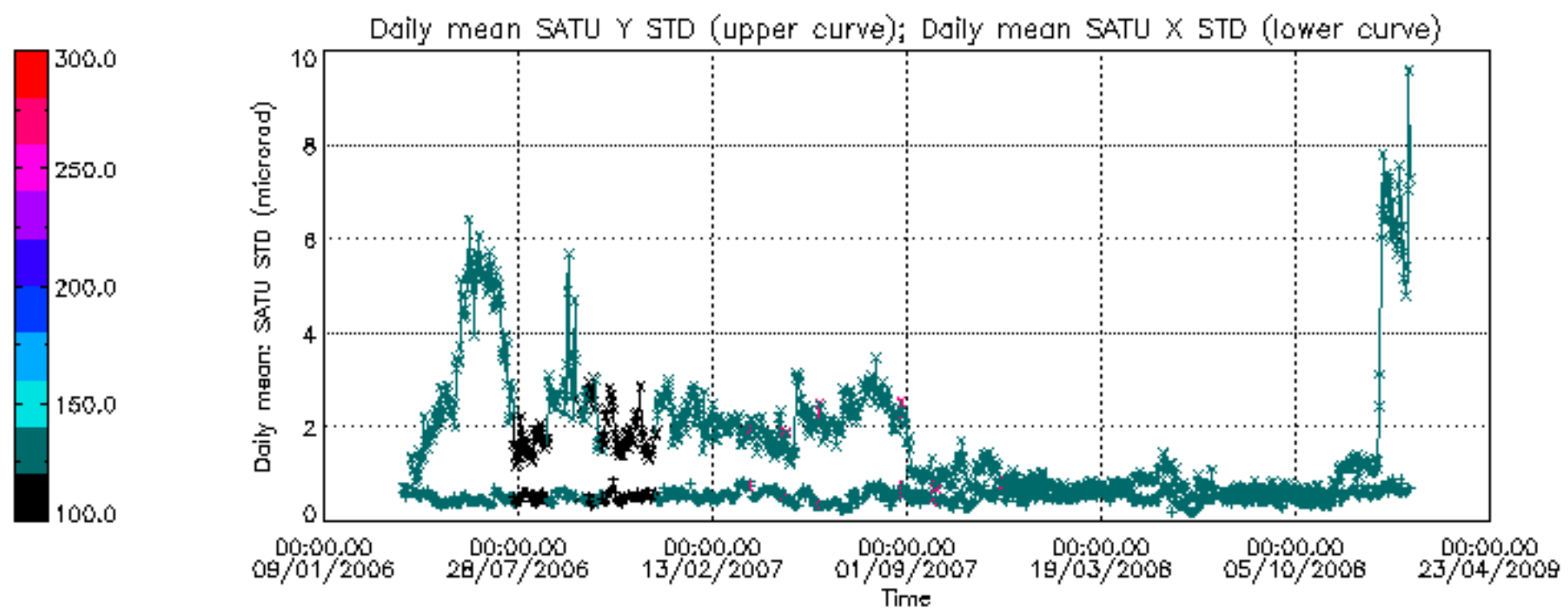
Tangent altitude at which the star is lost











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 3; 213.9; 01-JAN-2009 01:41:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35757  
 4; 432.4; 01-JAN-2009 01:45:07; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;35757  
 5; 548.6; 01-JAN-2009 01:47:03; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;35757  
 6; 632.8; 01-JAN-2009 01:48:27; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;35757  
 7; 727.3; 01-JAN-2009 01:50:02; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;35757  
 8; 979.7; 01-JAN-2009 01:54:14; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;35757  
 9; 1174.3; 01-JAN-2009 01:57:29; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;35757  
 10; 1341.9; 01-JAN-2009 02:00:16; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;35757  
 11; 1434.6; 01-JAN-2009 02:01:49; Dark ; 44.0; 179; 240mi2CMA ; 3.03; 24000;occ; 88; 0;35757  
 12; 1582.1; 01-JAN-2009 02:04:16; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;35757  
 13; 1770.1; 01-JAN-2009 02:07:24; Dark ; 44.0; 7; 19Bet Ori ; 0.10; 14000;occ; 88; 0;35757  
 14; 1881.7; 01-JAN-2009 02:09:16; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;35757  
 15; 2032.5; 01-JAN-2009 02:11:47; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;35757  
 16; 2270.6; 01-JAN-2009 02:15:45; Bright; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;35757  
 17; 2396.8; 01-JAN-2009 02:17:51; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35757  
 18; 2472.2; 01-JAN-2009 02:19:07; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;35757  
 19; 2565.7; 01-JAN-2009 02:20:40; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;35757  
 20; 2692.3; 01-JAN-2009 02:22:47; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;35757  
 21; 3423.1; 01-JAN-2009 02:34:57; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;35757  
 22; 3690.5; 01-JAN-2009 02:39:25; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;35757

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 12; 549.2; 01-JAN-2009 03:27:39; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;35758  
 13; 633.5; 01-JAN-2009 03:29:04; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;35758  
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 27; 2692.4; 01-JAN-2009 04:03:23; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;35758  
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 15; 728.8; 01-JAN-2009 05:11:15; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;35759

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18; 1342.9; 01-JAN-2009 05:21:29; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;35759
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4; 1345.2; 01-JAN-2009 20:26:55; Dark ; 48.5; 23; 21Eps CMa ; 1.50; 26000;occ; 97; 0;35768
5; 1436.9; 01-JAN-2009 20:28:27; Dark ; 45.0; 179; 240mi2CMa ; 3.03; 24000;occ; 90; 0;35768
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16; 3689.1; 01-JAN-2009 21:05:59; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;35768
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11; 732.8; 01-JAN-2009 21:57:18; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;35769
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23; 5868.0; 04-JAN-2009 08:23:15; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;35803  
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33; 7109.3; 04-JAN-2009 08:43:56; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;35803  
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 15; 4906.6; 04-JAN-2009 09:47:50; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;35804  
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 17; 5219.4; 04-JAN-2009 09:53:02; Bright; 42.5; 104; 27Bet Lib ; 2.61; 13100;occ; 85; 0;35804  
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 26; 6493.6; 04-JAN-2009 10:14:17; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;35804  
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 30; 7027.7; 04-JAN-2009 10:23:11; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;35804  
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 34; 7481.2; 04-JAN-2009 10:30:44; Dark ; 42.0; 179; 240mi2CMa ; 3.03; 24000;occ; 84; 0;35804  
 35; 7624.4; 04-JAN-2009 10:33:07; Dark ; 53.0; 1; 9Alp CMa ;-1.44; 11000;occ; 106; 0;35804

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 5; 2269.3; 04-JAN-2009 10:44:28; Bright; 34.5; 176; 23Zet Tau ; 3.02; 22000;occ; 69; 0;35805  
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 28; 6602.6; 04-JAN-2009 11:56:41; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;35805  
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 7; 2394.8; 04-JAN-2009 12:27:10; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;35806

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 33; 5063.6; 09-JAN-2009 00:29:58; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;35870  
 34; 5152.3; 09-JAN-2009 00:31:26; Bright; 52.0; 98; 13Zet Oph ; 2.57; 30000;occ; 104; 0;35870  
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 31; 2672.8; 13-JAN-2009 06:06:38; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;35931  
 32; 3424.7; 13-JAN-2009 06:19:10; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;35931  
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 5; 1471.7; 13-JAN-2009 20:52:00; Dark ; 38.0; 179; 240mi2CMA ; 3.03; 24000;occ; 76; 0;35940  
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 17; 4961.0; 13-JAN-2009 21:50:10; Bright; 61.0; 102; 24Alp Ser ; 2.60; 4250;occ; 122; 0;35940  
 18; 5089.7; 13-JAN-2009 21:52:18; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;35940  
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 7; 330.0; 13-JAN-2009 22:13:35; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;35941  
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 9; 611.1; 13-JAN-2009 22:18:16; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;35941  
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 22; 3424.8; 13-JAN-2009 23:05:09; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;35941  
 23; 3666.2; 13-JAN-2009 23:09:11; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;35941  
 24; 3922.7; 13-JAN-2009 23:13:27; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;35941  
 25; 4074.7; 13-JAN-2009 23:15:59; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;35941  
 26; 4450.4; 13-JAN-2009 23:22:15; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;35941  
 27; 4635.5; 13-JAN-2009 23:25:20; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;35941  
 28; 4961.4; 13-JAN-2009 23:30:46; Bright; 61.0; 102; 24Alp Ser ; 2.60; 4250;occ; 122; 0;35941  
 29; 5090.3; 13-JAN-2009 23:32:55; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;35941  
 30; 5172.9; 13-JAN-2009 23:34:17; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;35941  
 31; 5305.1; 13-JAN-2009 23:36:30; Dark ; 32.0; 104; 27Bet Lib ; 2.61; 13100;occ; 64; 0;35941

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 3; -1962.2; 13-JAN-2009 06:29:59; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;35931  
 4; -1586.5; 13-JAN-2009 06:36:15; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;35931  
 5; -1455.1; 13-JAN-2009 06:38:26; Bright; 44.0; 67; 5Alp CrB ; 2.22; 11000;occ; 88; 0;35931  
 6; -1079.2; 13-JAN-2009 06:44:42; Bright; 44.5; 102; 24Alp Ser ; 2.60; 4250;occ; 89; 0;35931  
 7; -949.6; 13-JAN-2009 06:46:52; Bright; 51.5; 120; 1Del Oph ; 2.73; 3200;occ; 103; 0;35931  
 8; -865.4; 13-JAN-2009 06:48:16; Bright; 53.0; 98; 13Zet Oph ; 2.57; 30000;occ; 106; 0;35931  
 9; -738.1; 13-JAN-2009 06:50:23; Dark ; 45.5; 104; 27Bet Lib ; 2.61; 13100;occ; 91; 0;35931  
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 11; -287.5; 13-JAN-2009 06:57:54; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;35931  
 12; -141.4; 13-JAN-2009 07:00:20; Dark ; 44.0; 81; Eta Cen ; 2.36; 28000;occ; 88; 0;35931  
 13; -58.5; 13-JAN-2009 07:01:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;35931  
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 17; 608.2; 13-JAN-2009 07:12:49; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;35932  
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 22; 1229.5; 13-JAN-2009 07:23:11; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;35932  
 23; 1384.6; 13-JAN-2009 07:25:46; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;35932  
 24; 1470.4; 13-JAN-2009 07:27:12; Dark ; 41.0; 179; 240mi2CMA ; 3.03; 24000;occ; 82; 0;35932  
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 5; 2400.9; 13-JAN-2009 07:42:42; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;35932  
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 13; 4581.2; 13-JAN-2009 08:19:02; Bright; 33.0; 67; 5Alp CrB ; 2.22; 11000;occ; 66; 0;35932  
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 16; 5170.4; 13-JAN-2009 08:28:52; Bright; 53.0; 98; 13Zet Oph ; 2.57; 30000;occ; 106; 0;35932  
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 22; 6101.9; 13-JAN-2009 08:44:23; Dark ; 40.5; 4; Alp1Cen ; -0.01; 5800;occ; 81; 0;35932  
 23; 6361.5; 13-JAN-2009 08:48:43; Dark ; 46.5; 12; Alp1Cru ; 0.77; 30000;occ; 93; 0;35932  
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 27; 6833.7; 13-JAN-2009 08:56:35; Dark ; 48.5; 41; Eps Car ; 1.86; 4100;occ; 97; 0;35932  
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 32; 7506.6; 13-JAN-2009 09:07:48; Dark ; 42.0; 179; 240mi2Cma ; 3.03; 24000;occ; 84; 0;35932  
 33; 7641.3; 13-JAN-2009 09:10:02; Dark ; 43.5; 1; 9Alp CMa ; -1.44; 11000;occ; 87; 0;35932

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 10; 800.9; 14-JAN-2009 00:02:01; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;35942  
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 13; 1231.7; 14-JAN-2009 00:09:12; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;35942  
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 18; 2190.3; 14-JAN-2009 00:25:11; Dark ; 43.5; 44; 24Gam Gem ; 1.93; 11000;occ; 87; 0;35942  
 19; 2274.4; 14-JAN-2009 00:26:35; Bright; 34.5; 176; 23Zet Tau ; 3.02; 22000;occ; 69; 0;35942  
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 21; 2540.6; 14-JAN-2009 00:31:01; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;35942  
 22; 2672.1; 14-JAN-2009 00:33:12; Bright; 37.5; 42; 34Bet Aur ; 1.90; 10200;occ; 75; 0;35942  
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6; 2673.1; 13-JAN-2009 09:27:50; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;35933
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21;	1251.2;	19-JAN-2009	05:54:26;	Dark	;	43.5;	117;	Pi Pup	;	2.71;	3800;occ;	87;	0;	36017
22;	1401.6;	19-JAN-2009	05:56:56;	Dark	;	36.5;	23;	21Eps CMA	;	1.50;	26000;occ;	73;	0;	36017
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11;	1030.9;	19-JAN-2009	22:36:45;	Dark	;	40.5;	34;	Gam2Vel	;	1.79;	23000;occ;	81;	0;	36027
12;	1159.0;	19-JAN-2009	22:38:53;	Dark	;	41.0;	70;	Zet Pup	;	2.25;	39000;occ;	82;	0;	36027
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 12; -74.2; 24-JAN-2009 07:56:02; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36089  
 13; 35.1; 24-JAN-2009 07:57:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36090  
 14; 138.8; 24-JAN-2009 07:59:35; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;36090  
 15; 228.6; 24-JAN-2009 08:01:05; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;36090  
 16; 412.2; 24-JAN-2009 08:04:09; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;36090  
 17; 504.8; 24-JAN-2009 08:05:41; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;36090  
 18; 655.5; 24-JAN-2009 08:08:12; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;36090  
 19; 786.0; 24-JAN-2009 08:10:23; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;36090  
 20; 894.4; 24-JAN-2009 08:12:11; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;36090  
 21; 1050.9; 24-JAN-2009 08:14:47; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;36090  
 22; 1177.2; 24-JAN-2009 08:16:54; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;36090  
 23; 1267.3; 24-JAN-2009 08:18:24; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;36090  
 24; 1415.1; 24-JAN-2009 08:20:52; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;36090  
 25; 1498.1; 24-JAN-2009 08:22:15; Dark ; 39.0; 179; 240mi2CMA ; 3.03; 24000;occ; 78; 0;36090  
 26; 1628.4; 24-JAN-2009 08:24:25; Dark ; 27.5; 1; 9Alp CMA ; -1.44; 11000;occ; 55; 0;36090

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 4; 2294.5; 24-JAN-2009 08:35:31; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;36090  
 5; 2416.4; 24-JAN-2009 08:37:33; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36090  
 6; 2548.5; 24-JAN-2009 08:39:45; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;36090  
 7; 2676.5; 24-JAN-2009 08:41:53; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;36090  
 8; 3426.4; 24-JAN-2009 08:54:23; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36090  
 9; 3638.2; 24-JAN-2009 08:57:55; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;36090  
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 11; 4085.3; 24-JAN-2009 09:05:22; Bright; 53.0; 130; 23Bet Dra ; 2.80; 5800;occ; 106; 0;36090  
 12; 4472.0; 24-JAN-2009 09:11:49; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;36090  
 13; 4672.0; 24-JAN-2009 09:15:09; Bright; 43.0; 127; 27Bet Her ; 2.78; 4700;occ; 86; 0;36090  
 14; 4769.2; 24-JAN-2009 09:16:46; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;36090  
 15; 4895.9; 24-JAN-2009 09:18:52; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;36090  
 16; 5236.7; 24-JAN-2009 09:24:33; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36090

17; 5506.8; 24-JAN-2009 09:29:03; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;36090  
 18; 5593.1; 24-JAN-2009 09:30:30; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36090  
 19; 5841.2; 24-JAN-2009 09:34:38; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;36090  
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 21; 6071.6; 24-JAN-2009 09:38:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36090  
 22; 6175.2; 24-JAN-2009 09:40:12; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;36090  
 23; 6265.3; 24-JAN-2009 09:41:42; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;36090  
 24; 6448.8; 24-JAN-2009 09:44:45; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;36090  
 25; 6541.2; 24-JAN-2009 09:46:18; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36090  
 26; 6691.3; 24-JAN-2009 09:48:48; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;36090  
 27; 6822.3; 24-JAN-2009 09:50:59; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;36090  
 28; 6931.2; 24-JAN-2009 09:52:48; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;36090  
 29; 7087.4; 24-JAN-2009 09:55:24; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;36090  
 30; 7213.8; 24-JAN-2009 09:57:30; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;36090  
 31; 7302.6; 24-JAN-2009 09:58:59; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;36090  
 32; 7451.6; 24-JAN-2009 10:01:28; Dark ; 39.5; 23; 21Eps CMa ; 1.50; 26000;occ; 79; 0;36090  
 33; 7534.6; 24-JAN-2009 10:02:51; Dark ; 39.0; 179; 240mi2CMa ; 3.03; 24000;occ; 78; 0;36090  
 34; 7663.6; 24-JAN-2009 10:05:00; Dark ; 41.5; 1; 9Alp CMa ;-1.44; 11000;occ; 83; 0;36090

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1; 1627.7; 24-JAN-2009 10:05:00; Dark ; 42.0; 1; 9Alp CMa ;-1.44; 11000;occ; 84; 0;36091  
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 4; 2294.5; 24-JAN-2009 10:16:07; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;36091  
 5; 2416.1; 24-JAN-2009 10:18:09; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;36091  
 6; 2548.2; 24-JAN-2009 10:20:21; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36091  
 7; 2676.8; 24-JAN-2009 10:22:29; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;36091  
 8; 3426.5; 24-JAN-2009 10:34:59; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;36091  
 9; 3637.7; 24-JAN-2009 10:38:30; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;36091  
 10; 3911.2; 24-JAN-2009 10:43:04; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;36091  
 11; 4085.3; 24-JAN-2009 10:45:58; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;36091  
 12; 4472.2; 24-JAN-2009 10:52:25; Bright; 39.5; 133; 40Zet Her ; 2.81; 6000;occ; 79; 0;36091  
 13; 4672.4; 24-JAN-2009 10:55:45; Bright; 44.0; 127; 27Bet Her ; 2.78; 4700;occ; 88; 0;36091  
 14; 4769.5; 24-JAN-2009 10:57:22; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;36091  
 15; 4896.4; 24-JAN-2009 10:59:29; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;36091  
 16; 5236.7; 24-JAN-2009 11:05:09; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36091  
 17; 5507.4; 24-JAN-2009 11:09:40; Dark ; 47.0; 16; 21Alp Sco ; 1.02; 3000;occ; 94; 0;36091  
 18; 5593.6; 24-JAN-2009 11:11:06; Dark ; 44.0; 75; 26Eps Sco ; 2.29; 4250;occ; 88; 0;36091  
 19; 5841.9; 24-JAN-2009 11:15:14; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;36091  
 20; 5963.5; 24-JAN-2009 11:17:16; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36091  
 21; 6072.2; 24-JAN-2009 11:19:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36091  
 22; 6176.0; 24-JAN-2009 11:20:48; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;36091  
 23; 6265.8; 24-JAN-2009 11:22:18; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;36091  
 24; 6449.3; 24-JAN-2009 11:25:22; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;36091  
 25; 6542.4; 24-JAN-2009 11:26:55; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36091  
 26; 6691.5; 24-JAN-2009 11:29:24; Dark ; 43.0; 29; Bet Car ; 1.67; 10200;occ; 86; 0;36091  
 27; 6822.7; 24-JAN-2009 11:31:35; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;36091  
 28; 6931.3; 24-JAN-2009 11:33:24; Dark ; 37.0; 46; Del Vel ; 1.95; 10600;occ; 74; 0;36091  
 29; 7087.2; 24-JAN-2009 11:36:00; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;36091  
 30; 7214.4; 24-JAN-2009 11:38:07; Dark ; 37.0; 70; Zet Pup ; 2.25; 39000;occ; 74; 0;36091  
 31; 7303.0; 24-JAN-2009 11:39:35; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;36091  
 32; 7451.5; 24-JAN-2009 11:42:04; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;36091  
 33; 7535.2; 24-JAN-2009 11:43:28; Dark ; 36.5; 179; 240mi2CMa ; 3.03; 24000;occ; 73; 0;36091

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1; 1499.3; 24-JAN-2009 11:43:28; Dark ; 37.0; 179; 240mi2CMa ; 3.03; 24000;occ; 74; 0;36092  
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 3; 1996.2; 24-JAN-2009 11:51:44; Dark ; 47.0; 8; 10Alp CMi ; 0.40; 6500;occ; 94; 0;36092  
 4; 2188.3; 24-JAN-2009 11:54:57; Bright; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;36092  
 5; 2295.1; 24-JAN-2009 11:56:43; Bright; 37.5; 151; 13Mu Gem ; 2.89; 3000;occ; 75; 0;36092  
 6; 2416.2; 24-JAN-2009 11:58:44; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36092  
 7; 2548.5; 24-JAN-2009 12:00:57; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36092  
 8; 2677.0; 24-JAN-2009 12:03:05; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;36092  
 9; 3426.4; 24-JAN-2009 12:15:35; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36092  
 10; 3637.8; 24-JAN-2009 12:19:06; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;36092  
 11; 3911.2; 24-JAN-2009 12:23:40; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;36092  
 12; 4085.3; 24-JAN-2009 12:26:34; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;36092  
 13; 4472.3; 24-JAN-2009 12:33:01; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;36092  
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16; 4896.3; 24-JAN-2009 12:40:05; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;36092  
 17; 5237.6; 24-JAN-2009 12:45:46; Dark ; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;36092  
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 19; 5594.1; 24-JAN-2009 12:51:42; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36092  
 20; 5842.7; 24-JAN-2009 12:55:51; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;36092  
 21; 5964.4; 24-JAN-2009 12:57:53; Dark ; 42.5; 109; Bet Lup ; 2.68; 26000;occ; 85; 0;36092  
 22; 6072.9; 24-JAN-2009 12:59:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36092  
 23; 6176.9; 24-JAN-2009 13:01:25; Dark ; 40.0; 4; Alp1Cen ;-0.01; 5800;occ; 80; 0;36092  
 24; 6267.6; 24-JAN-2009 13:02:56; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0;36092  
 25; 6450.1; 24-JAN-2009 13:05:58; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;36092  
 26; 6543.1; 24-JAN-2009 13:07:31; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36092  
 27; 6691.7; 24-JAN-2009 13:10:00; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;36092  
 28; 6823.4; 24-JAN-2009 13:12:12; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;36092  
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 30; 7088.3; 24-JAN-2009 13:16:37; Dark ; 38.0; 34; Gam2Vel ; 1.79; 23000;occ; 76; 0;36092  
 31; 7214.3; 24-JAN-2009 13:18:43; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;36092  
 32; 7304.1; 24-JAN-2009 13:20:12; Dark ; 40.0; 117; Pi Pup ; 2.71; 3800;occ; 80; 0;36092  
 33; 7451.8; 24-JAN-2009 13:22:40; Dark ; 36.5; 23; 21Eps CMA ; 1.50; 26000;occ; 73; 0;36092

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 5; 2188.4; 24-JAN-2009 13:35:33; Bright; 38.0; 44; 24Gam Gem ; 1.93; 11000;occ; 76; 0;36093  
 6; 2295.0; 24-JAN-2009 13:37:19; Bright; 40.0; 151; 13Mu Gem ; 2.89; 3000;occ; 80; 0;36093  
 7; 2416.0; 24-JAN-2009 13:39:20; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36093  
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 10; 3426.4; 24-JAN-2009 13:56:11; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36093  
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 18; 5238.0; 24-JAN-2009 14:26:22; Dark ; 45.0; 98; 13Zet Oph ; 2.57; 30000;occ; 90; 0;36093  
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 22; 5965.3; 24-JAN-2009 14:38:29; Dark ; 40.0; 109; Bet Lup ; 2.68; 26000;occ; 80; 0;36093  
 23; 6073.6; 24-JAN-2009 14:40:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36093  
 24; 6176.4; 24-JAN-2009 14:42:01; Dark ; 40.5; 4; Alp1Cen ;-0.01; 5800;occ; 81; 0;36093  
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 27; 6543.5; 24-JAN-2009 14:48:08; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36093  
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 29; 6823.4; 24-JAN-2009 14:52:48; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;36093  
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 32; 7214.8; 24-JAN-2009 14:59:19; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;36093  
 33; 7303.8; 24-JAN-2009 15:00:48; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;36093

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 23; 6183.4; 25-JAN-2009 12:29:55; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;36106  
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17;	6022.3;	29-JAN-2009	08:40:09;	Dark	;	45.0;	109;	Bet Lup	;	2.68;	26000;occ;	90;	0;	36161
18;	6118.8;	29-JAN-2009	08:41:46;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	36161
19;	6212.0;	29-JAN-2009	08:43:19;	Dark	;	29.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	59;	0;	36161
20;	6320.2;	29-JAN-2009	08:45:07;	Dark	;	43.0;	77;	Eps Cen	;	2.30;	28000;occ;	86;	0;	36161
21;	6487.6;	29-JAN-2009	08:47:55;	Dark	;	39.5;	12;	Alp1Cru	;	0.77;	30000;occ;	79;	0;	36161
22;	6732.9;	29-JAN-2009	08:52:00;	Dark	;	38.0;	159;	Ups Car	;	2.92;	7200;occ;	76;	0;	36161
23;	6847.9;	29-JAN-2009	08:53:55;	Dark	;	42.5;	71;	Iot Car	;	2.25;	7700;occ;	85;	0;	36161
24;	6953.9;	29-JAN-2009	08:55:41;	Dark	;	42.5;	46;	Del Vel	;	1.95;	10600;occ;	85;	0;	36161
25;	7107.0;	29-JAN-2009	08:58:14;	Dark	;	42.0;	34;	Gam2Vel	;	1.79;	23000;occ;	84;	0;	36161
26;	7232.6;	29-JAN-2009	09:00:20;	Dark	;	39.5;	70;	Zet Pup	;	2.25;	39000;occ;	79;	0;	36161
27;	7317.2;	29-JAN-2009	09:01:44;	Dark	;	43.5;	117;	Pi Pup	;	2.71;	3800;occ;	87;	0;	36161
28;	7441.5;	29-JAN-2009	09:03:49;	Dark	;	41.0;	88;	31Eta CMa	;	2.45;	20000;occ;	82;	0;	36161
29;	7546.4;	29-JAN-2009	09:05:34;	Dark	;	38.5;	179;	240mi2CMa	;	3.03;	24000;occ;	77;	0;	36161

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1;	1992.6;	29-JAN-2009	12:34:47;	Dark	;	48.0;	8;	10Alp CMI	;	0.40;	6500;occ;	96;	0;	36164
2;	2194.8;	29-JAN-2009	12:38:10;	Bright;	;	42.5;	44;	24Gam Gem	;	1.93;	11000;occ;	85;	0;	36164
3;	2304.1;	29-JAN-2009	12:39:59;	Bright;	;	38.5;	151;	13Mu Gem	;	2.89;	3000;occ;	77;	0;	36164
4;	2399.2;	29-JAN-2009	12:41:34;	Bright;	;	43.0;	17;	78Bet Gem	;	1.16;	4500;occ;	86;	0;	36164
5;	2687.0;	29-JAN-2009	12:46:22;	Bright;	;	36.0;	42;	34Bet Aur	;	1.90;	10200;occ;	72;	0;	36164
6;	3621.2;	29-JAN-2009	13:01:56;	Bright;	;	36.5;	60;	7Bet UMi	;	2.08;	3950;occ;	73;	0;	36164
7;	3901.3;	29-JAN-2009	13:06:36;	Bright;	;	41.0;	119;	14Eta Dra	;	2.73;	4700;occ;	82;	0;	36164
8;	4087.0;	29-JAN-2009	13:09:42;	Bright;	;	37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	0;	36164
9;	4300.4;	29-JAN-2009	13:13:15;	Bright;	;	52.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	104;	0;	36164
10;	4788.0;	29-JAN-2009	13:21:23;	Bright;	;	37.0;	59;	55Alp Oph	;	2.08;	8900;occ;	74;	0;	36164
11;	4915.4;	29-JAN-2009	13:23:30;	Bright;	;	38.5;	126;	60Bet Oph	;	2.77;	4250;occ;	77;	0;	36164
12;	5298.9;	29-JAN-2009	13:29:54;	Dark	;	43.0;	86;	35Eta Oph	;	2.43;	10200;occ;	86;	0;	36164
13;	5551.4;	29-JAN-2009	13:34:06;	Dark	;	46.5;	16;	21Alp Sco	;	1.02;	3000;occ;	93;	0;	36164
14;	5895.1;	29-JAN-2009	13:39:50;	Dark	;	44.5;	131;	Gam Lup	;	2.80;	26000;occ;	89;	0;	36164
15;	6025.0;	29-JAN-2009	13:42:00;	Dark	;	45.0;	109;	Bet Lup	;	2.68;	26000;occ;	90;	0;	36164
16;	6120.8;	29-JAN-2009	13:43:36;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	36164
17;	6213.9;	29-JAN-2009	13:45:09;	Dark	;	41.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	82;	0;	36164
18;	6322.6;	29-JAN-2009	13:46:57;	Dark	;	43.0;	77;	Eps Cen	;	2.30;	28000;occ;	86;	0;	36164
19;	6489.5;	29-JAN-2009	13:49:44;	Dark	;	42.0;	12;	Alp1Cru	;	0.77;	30000;occ;	84;	0;	36164
20;	6602.3;	29-JAN-2009	13:51:37;	Dark	;	44.5;	99;	Del Cen	;	2.58;	26000;occ;	89;	0;	36164
21;	6734.5;	29-JAN-2009	13:53:49;	Dark	;	36.0;	159;	Ups Car	;	2.92;	7200;occ;	72;	0;	36164
22;	6849.1;	29-JAN-2009	13:55:44;	Dark	;	46.0;	71;	Iot Car	;	2.25;	7700;occ;	92;	0;	36164
23;	6955.1;	29-JAN-2009	13:57:30;	Dark	;	40.5;	46;	Del Vel	;	1.95;	10600;occ;	81;	0;	36164
24;	7108.0;	29-JAN-2009	14:00:03;	Dark	;	39.0;	34;	Gam2Vel	;	1.79;	23000;occ;	78;	0;	36164
25;	7233.3;	29-JAN-2009	14:02:08;	Dark	;	42.5;	70;	Zet Pup	;	2.25;	39000;occ;	85;	0;	36164
26;	7317.9;	29-JAN-2009	14:03:33;	Dark	;	44.0;	117;	Pi Pup	;	2.71;	3800;occ;	88;	0;	36164
27;	7442.5;	29-JAN-2009	14:05:37;	Dark	;	29.5;	88;	31Eta CMa	;	2.45;	20000;occ;	59;	0;	36164

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3;	-135.8;	30-JAN-2009	01:24:07;	Dark	;	42.0;	131;	Gam Lup	;	2.80;	26000;occ;	84;	0;	36171
4;	-4.2;	30-JAN-2009	01:26:18;	Dark	;	44.0;	109;	Bet Lup	;	2.68;	26000;occ;	88;	0;	36171
5;	89.7;	30-JAN-2009	01:27:52;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	36172
6;	181.7;	30-JAN-2009	01:29:24;	Dark	;	52.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	105;	0;	36172
7;	292.0;	30-JAN-2009	01:31:14;	Dark	;	42.5;	77;	Eps Cen	;	2.30;	28000;occ;	85;	0;	36172
8;	457.3;	30-JAN-2009	01:34:00;	Dark	;	43.5;	12;	Alp1Cru	;	0.77;	30000;occ;	87;	0;	36172
9;	572.2;	30-JAN-2009	01:35:55;	Dark	;	48.0;	99;	Del Cen	;	2.58;	26000;occ;	96;	0;	36172



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13; 1074.0; 30-JAN-2009 01:44:16; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;36172
14; 1199.3; 30-JAN-2009 01:46:22; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;36172
15; 1407.8; 30-JAN-2009 01:49:50; Dark ; 41.5; 88; 31Eta CMa ; 2.45; 20000;occ; 83; 0;36172
16; 1512.2; 30-JAN-2009 01:51:35; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;36172
17; 1992.6; 30-JAN-2009 01:59:35; Dark ; 50.5; 8; 10Alp CMI ; 0.40; 6500;occ; 101; 0;36172
18; 2196.4; 30-JAN-2009 02:02:59; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;36172
19; 2305.4; 30-JAN-2009 02:04:48; Bright; 40.5; 151; 13Mu Gem ; 2.89; 3000;occ; 81; 0;36172
20; 2397.6; 30-JAN-2009 02:06:20; Bright; 43.0; 17; 78Bet Gem ; 1.16; 4500;occ; 86; 0;36172
21; 2688.1; 30-JAN-2009 02:11:10; Bright; 37.5; 42; 34Bet Aur ; 1.90; 10200;occ; 75; 0;36172
22; 3427.5; 30-JAN-2009 02:23:30; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;36172
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4; -1245.0; 30-JAN-2009 02:46:13; Bright; 34.5; 59; 55Alp Oph ; 2.08; 8900;occ; 69; 0;36172
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13; 458.0; 30-JAN-2009 03:14:36; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;36173
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16; 816.3; 30-JAN-2009 03:20:35; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;36173
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27; 3427.5; 30-JAN-2009 04:04:06; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36173
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12; 182.4; 30-JAN-2009 04:50:37; Dark ; 55.0; 4; Alp1Cen ; -0.01; 5800;occ; 110; 0;36174
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15; 573.8; 30-JAN-2009 04:57:08; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;36174
16; 701.4; 30-JAN-2009 04:59:16; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;36174
17; 816.4; 30-JAN-2009 05:01:11; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;36174
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19; 1074.5; 30-JAN-2009 05:05:29; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;36174
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21; 1408.3; 30-JAN-2009 05:11:03; Dark ; 40.0; 88; 31Eta CMa ; 2.45; 20000;occ; 80; 0;36174
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26; 2397.3; 30-JAN-2009 05:27:32; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;36174
27; 2688.5; 30-JAN-2009 05:32:23; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;36174
28; 3427.4; 30-JAN-2009 05:44:42; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;36174
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12; 3899.4; 30-JAN-2009 20:57:57; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;36183
13; 4087.7; 30-JAN-2009 21:01:06; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;36183
14; 4303.3; 30-JAN-2009 21:04:41; Bright; 28.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 56; 0;36183
15; 4794.1; 30-JAN-2009 21:12:52; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;36183
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25; 7115.0; 31-JAN-2009 09:35:44; Dark ; 30.5; 34; Gam2Vel ; 1.79; 23000;occ; 61; 0;36190  
26; 7239.9; 31-JAN-2009 09:37:49; Dark ; 31.0; 70; Zet Pup ; 2.25; 39000;occ; 62; 0;36190  
27; 7447.5; 31-JAN-2009 09:41:17; Dark ; 29.5; 88; 31Eta CMa ; 2.45; 20000;occ; 59; 0;36190

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1; 1993.2; 31-JAN-2009 09:50:59; Dark ; 32.5; 8; 10Alp CMI ; 0.40; 6500;occ; 65; 0;36191  
2; 2198.4; 31-JAN-2009 09:54:24; Bright; 31.5; 44; 24Gam Gem ; 1.93; 11000;occ; 63; 0;36191  
3; 2340.6; 31-JAN-2009 09:56:46; Bright; 32.0; 170; 27Eps Gem ; 3.00; 9700;occ; 64; 0;36191  
4; 2456.5; 31-JAN-2009 09:58:42; Bright; 34.0; 24; 66Alp Gem ; 1.58; 10200;occ; 68; 0;36191  
5; 3427.5; 31-JAN-2009 10:14:53; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;36191  
6; 3614.9; 31-JAN-2009 10:18:00; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;36191  
7; 3897.4; 31-JAN-2009 10:22:43; Bright; 30.5; 119; 14Eta Dra ; 2.73; 4700;occ; 61; 0;36191  
8; 4086.8; 31-JAN-2009 10:25:52; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;36191  
9; 4304.4; 31-JAN-2009 10:29:30; Bright; 25.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 51; 0;36191  
10; 4795.8; 31-JAN-2009 10:37:41; Bright; 28.0; 59; 55Alp Oph ; 2.08; 8900;occ; 56; 0;36191  
11; 4923.9; 31-JAN-2009 10:39:49; Bright; 28.0; 126; 60Bet Oph ; 2.77; 4250;occ; 56; 0;36191  
12; 5311.4; 31-JAN-2009 10:46:17; Dark ; 31.0; 86; 35Eta Oph ; 2.43; 10200;occ; 62; 0;36191  
13; 5569.0; 31-JAN-2009 10:50:34; Dark ; 35.0; 16; 21Alp Sco ; 1.02; 3000;occ; 70; 0;36191  
14; 5704.4; 31-JAN-2009 10:52:50; Dark ; 29.5; 40; The Sco ; 1.86; 7100;occ; 59; 0;36191  
15; 5916.3; 31-JAN-2009 10:56:22; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;36191  
16; 6049.2; 31-JAN-2009 10:58:35; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;36191  
17; 6139.6; 31-JAN-2009 11:00:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36191  
18; 6227.9; 31-JAN-2009 11:01:33; Dark ; 34.5; 4; Alp1Cen ; -0.01; 5800;occ; 69; 0;36191  
19; 6343.5; 31-JAN-2009 11:03:29; Dark ; 37.5; 77; Eps Cen ; 2.30; 28000;occ; 75; 0;36191  
20; 6504.0; 31-JAN-2009 11:06:09; Dark ; 34.0; 12; Alp1Cru ; 0.77; 30000;occ; 68; 0;36191  
21; 6623.8; 31-JAN-2009 11:08:09; Dark ; 39.0; 99; Del Cen ; 2.58; 26000;occ; 78; 0;36191  
22; 6742.9; 31-JAN-2009 11:10:08; Dark ; 31.5; 159; Ups Car ; 2.92; 7200;occ; 63; 0;36191  
23; 6858.1; 31-JAN-2009 11:12:03; Dark ; 31.5; 71; Iot Car ; 2.25; 7700;occ; 63; 0;36191  
24; 6963.6; 31-JAN-2009 11:13:49; Dark ; 30.5; 46; Del Vel ; 1.95; 10600;occ; 61; 0;36191  
25; 7114.9; 31-JAN-2009 11:16:20; Dark ; 30.5; 34; Gam2Vel ; 1.79; 23000;occ; 61; 0;36191  
26; 7239.7; 31-JAN-2009 11:18:25; Dark ; 31.0; 70; Zet Pup ; 2.25; 39000;occ; 62; 0;36191  
27; 7447.2; 31-JAN-2009 11:21:52; Dark ; 29.5; 88; 31Eta CMa ; 2.45; 20000;occ; 59; 0;36191

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1; 1992.8; 31-JAN-2009 11:31:34; Dark ; 32.5; 8; 10Alp CMI ; 0.40; 6500;occ; 65; 0;36192  
2; 2198.9; 31-JAN-2009 11:35:00; Bright; 31.0; 44; 24Gam Gem ; 1.93; 11000;occ; 62; 0;36192  
3; 2341.0; 31-JAN-2009 11:37:22; Bright; 31.0; 170; 27Eps Gem ; 3.00; 9700;occ; 62; 0;36192  
4; 2456.5; 31-JAN-2009 11:39:18; Bright; 33.5; 24; 66Alp Gem ; 1.58; 10200;occ; 67; 0;36192  
5; 3427.6; 31-JAN-2009 11:55:29; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;36192  
6; 3614.5; 31-JAN-2009 11:58:36; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;36192  
7; 3897.3; 31-JAN-2009 12:03:18; Bright; 30.0; 119; 14Eta Dra ; 2.73; 4700;occ; 60; 0;36192  
8; 4087.1; 31-JAN-2009 12:06:28; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;36192  
9; 4304.7; 31-JAN-2009 12:10:06; Bright; 25.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 50; 0;36192  
10; 4796.6; 31-JAN-2009 12:18:18; Bright; 27.5; 59; 55Alp Oph ; 2.08; 8900;occ; 55; 0;36192  
11; 4924.8; 31-JAN-2009 12:20:26; Bright; 27.0; 126; 60Bet Oph ; 2.77; 4250;occ; 54; 0;36192  
12; 5311.8; 31-JAN-2009 12:26:53; Dark ; 31.0; 86; 35Eta Oph ; 2.43; 10200;occ; 62; 0;36192  
13; 5569.7; 31-JAN-2009 12:31:11; Dark ; 34.5; 16; 21Alp Sco ; 1.02; 3000;occ; 69; 0;36192  
14; 5704.5; 31-JAN-2009 12:33:26; Dark ; 29.5; 40; The Sco ; 1.86; 7100;occ; 59; 0;36192

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16;	6050.0;	31-JAN-2009	12:39:11;	Dark	;	39.0;	109;	Bet Lup	;	2.68;	26000;occ;	78;	0;	36192
17;	6140.3;	31-JAN-2009	12:40:41;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	36192
18;	6228.2;	31-JAN-2009	12:42:09;	Dark	;	34.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	69;	0;	36192
19;	6344.6;	31-JAN-2009	12:44:06;	Dark	;	37.5;	77;	Eps Cen	;	2.30;	28000;occ;	75;	0;	36192
20;	6504.4;	31-JAN-2009	12:46:46;	Dark	;	34.0;	12;	Alp1Cru	;	0.77;	30000;occ;	68;	0;	36192
21;	6624.7;	31-JAN-2009	12:48:46;	Dark	;	39.0;	99;	Del Cen	;	2.58;	26000;occ;	78;	0;	36192
22;	6743.6;	31-JAN-2009	12:50:45;	Dark	;	31.5;	159;	Ups Car	;	2.92;	7200;occ;	63;	0;	36192
23;	6858.6;	31-JAN-2009	12:52:40;	Dark	;	31.5;	71;	Iot Car	;	2.25;	7700;occ;	63;	0;	36192
24;	6963.8;	31-JAN-2009	12:54:25;	Dark	;	31.0;	46;	Del Vel	;	1.95;	10600;occ;	62;	0;	36192
25;	7115.0;	31-JAN-2009	12:56:56;	Dark	;	30.5;	34;	Gam2Vel	;	1.79;	23000;occ;	61;	0;	36192
26;	7240.2;	31-JAN-2009	12:59:01;	Dark	;	31.0;	70;	Zet Pup	;	2.25;	39000;occ;	62;	0;	36192
27;	7447.5;	31-JAN-2009	13:02:29;	Dark	;	29.5;	88;	31Eta CMa	;	2.45;	20000;occ;	59;	0;	36192