

# GOMOS Daily Report 18-JAN-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	20JAN2007 05:32:44
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (18JAN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (19JAN2007 00:00:00)
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)

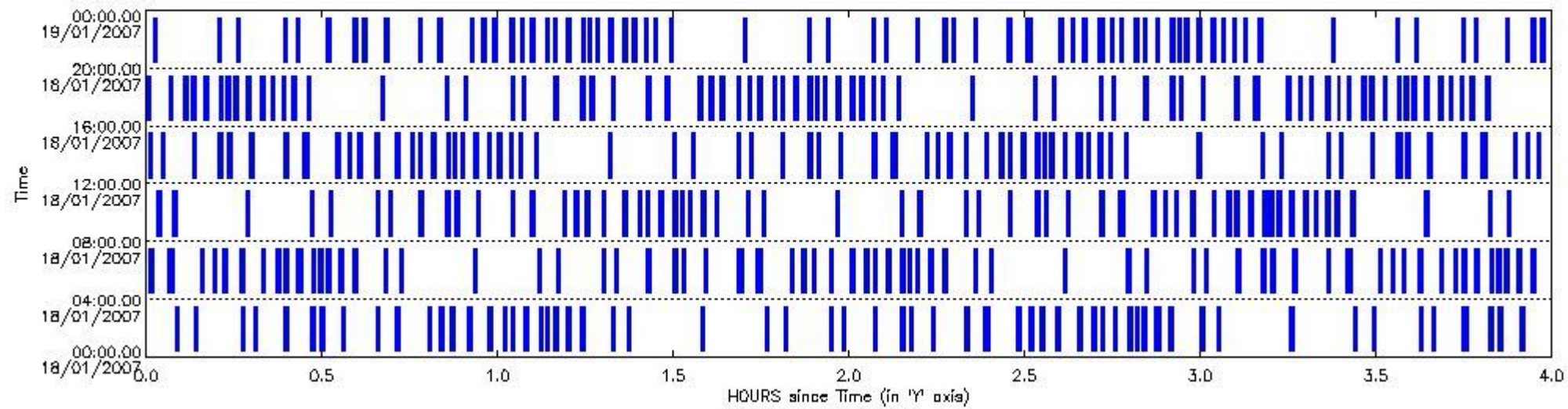
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

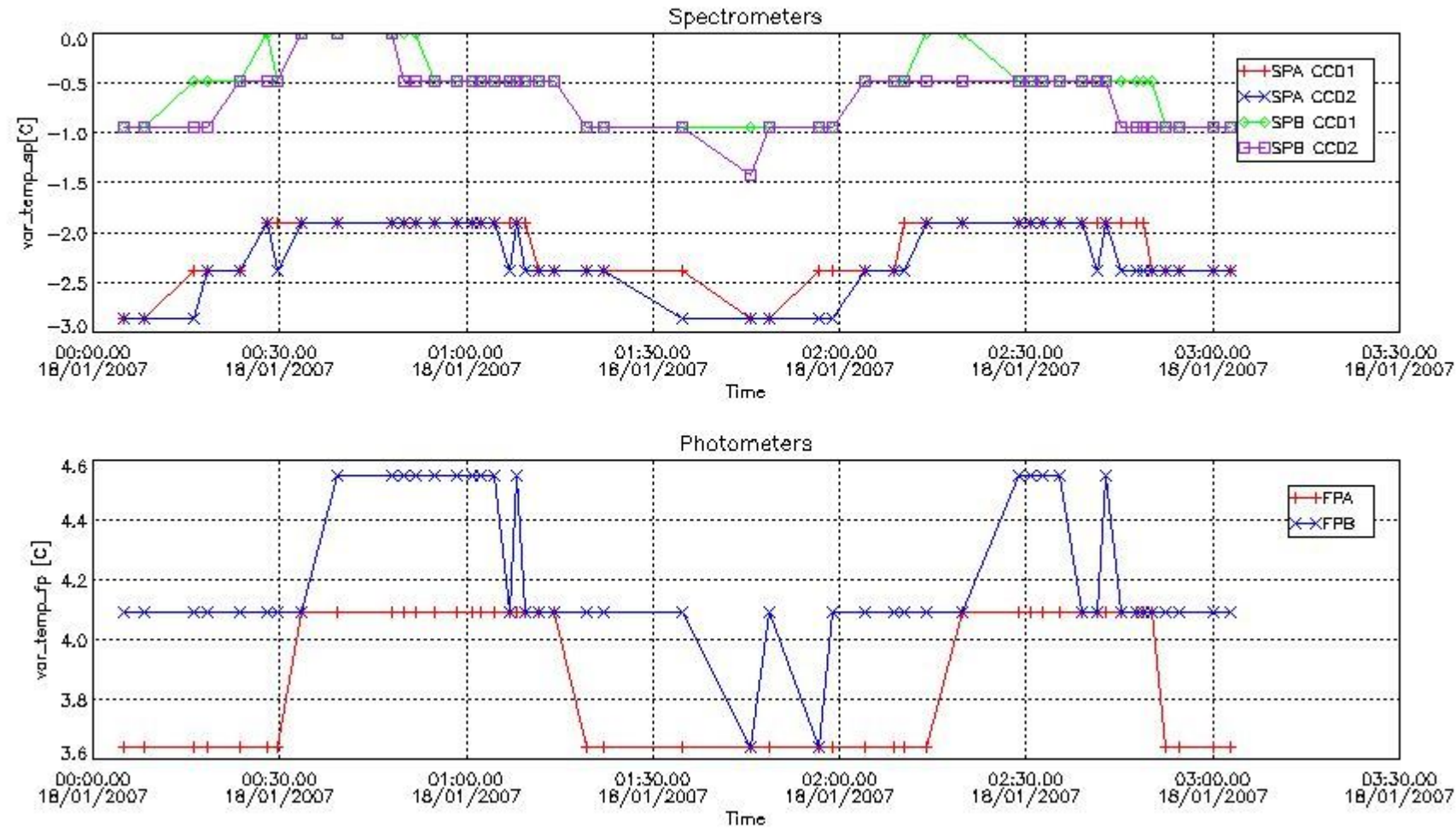
No missing products.

### 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_1PNPDE20070118_000501_000000362054_00431_25535_1423.N1	18-JAN-2007 00:05:01	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	25535	No
2	GOM_TRA_1PNPDE20070118_000812_000000352054_00431_25535_1424.N1	18-JAN-2007 00:08:12	Bright	35.000	5	3Alp Lyr	0.033000	11000.	70	25535	No
3	GOM_TRA_1PNPDE20070118_001610_000000332054_00431_25535_1425.N1	18-JAN-2007 00:16:10	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	25535	No
4	GOM_TRA_1PNPDE20070118_001816_000000332054_00431_25535_1426.N1	18-JAN-2007 00:18:16	Bright	33.000	126	60Bet Oph	2.7700	4250.0	66	25535	No
5	GOM_TRA_1PNPDE20070118_002333_000000382054_00431_25535_1427.N1	18-JAN-2007 00:23:33	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	25535	No
6	GOM_TRA_1PNPDE20070118_002801_000000472054_00431_25535_1586.N1	18-JAN-2007 00:28:01	Twilight	47.000	16	21Alp Sco	1.0200	3000.0	94	25535	No
7	GOM_TRA_1PNPDE20070118_002939_000000402054_00431_25535_1587.N1	18-JAN-2007 00:29:39	Twilight	40.000	75	26Eps Sco	2.2910	4250.0	80	25535	No
8	GOM_TRA_1PNPDE20070118_003322_000000392054_00431_25535_1588.N1	18-JAN-2007 00:33:22	Dark	39.000	131	Gam Lup	2.8000	26000.	78	25535	No
9	GOM_TRA_1PNPDE20070118_003909_000000462054_00432_25536_1589.N1	18-JAN-2007 00:39:09	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	25536	No
10	GOM_TRA_1PNPDE20070118_004805_000000422054_00432_25536_1590.N1	18-JAN-2007 00:48:05	Dark	41.500	29	Bet Car	1.6720	10200.	83	25536	No
11	GOM_TRA_1PNPDE20070118_005004_000000452054_00432_25536_1591.N1	18-JAN-2007 00:50:04	Dark	44.500	71	lot Car	2.2460	7700.0	89	25536	No
12	GOM_TRA_1PNPDE20070118_005155_000000392054_00432_25536_1592.N1	18-JAN-2007 00:51:55	Dark	39.000	46	Del Vel	1.9540	10600.	78	25536	No

13	GOM_TRA_1PNPDE20070118_005447_000000432054_00432_25536_1593.N1	18-JAN-2007 00:54:47	Dark	43.000	2	Alp Car	-0.73600	7000.0	86	25536	No
14	GOM_TRA_1PNPDE20070118_005822_000000442054_00432_25536_1594.N1	18-JAN-2007 00:58:22	Straylight	43.500	117	Pi Pup	2.7060	3800.0	87	25536	No
15	GOM_TRA_1PNPDE20070118_010054_000000452054_00432_25536_1595.N1	18-JAN-2007 01:00:54	Straylight	44.500	23	21Eps CMa	1.5020	26000.	89	25536	No
16	GOM_TRA_1PNPDE20070118_010218_000000402054_00432_25536_1596.N1	18-JAN-2007 01:02:18	Straylight	39.500	179	24Omi2CMa	3.0320	24000.	79	25536	No
17	GOM_TRA_1PNPDE20070118_010431_000000442054_00432_25536_1597.N1	18-JAN-2007 01:04:31	Straylight	43.500	1	9Alp CMa	-1.4400	11000.	87	25536	No
18	GOM_TRA_1PNPDE20070118_010701_000000402054_00432_25536_1598.N1	18-JAN-2007 01:07:01	Straylight	39.500	56	53Kap Ori	2.0650	30000.	79	25536	No
19	GOM_TRA_1PNPDE20070118_010812_000000392054_00432_25536_1599.N1	18-JAN-2007 01:08:12	Twi_and_stray	38.500	125	44Iot Ori	2.7700	30000.	77	25536	No
20	GOM_TRA_1PNPDE20070118_010929_000000442054_00432_25536_1600.N1	18-JAN-2007 01:09:29	Twi_and_stray	44.000	30	46Eps Ori	1.6940	30000.	88	25536	No
21	GOM_TRA_1PNPDE20070118_011140_000000492054_00432_25536_1601.N1	18-JAN-2007 01:11:40	Twi_and_stray	49.000	14	58Alp Ori	0.87000	3000.0	98	25536	No
22	GOM_TRA_1PNPDE20070118_011404_000000462054_00432_25536_1602.N1	18-JAN-2007 01:14:04	Bright	45.500	44	24Gam Gem	1.9280	11000.	91	25536	No
23	GOM_TRA_1PNPDE20070118_011926_000000372054_00432_25536_1603.N1	18-JAN-2007 01:19:26	Bright	36.500	114	3Iot Aur	2.6930	4600.0	73	25536	No
24	GOM_TRA_1PNPDE20070118_012209_000000372054_00432_25536_1604.N1	18-JAN-2007 01:22:09	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	25536	No
25	GOM_TRA_1PNPDE20070118_013442_000000352054_00432_25536_1605.N1	18-JAN-2007 01:34:42	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	25536	No
26	GOM_TRA_1PNPDE20070118_014537_000000352054_00432_25536_1606.N1	18-JAN-2007 01:45:37	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	25536	No
27	GOM_TRA_1PNPDE20070118_014848_000000342054_00432_25536_1607.N1	18-JAN-2007 01:48:48	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	25536	No
28	GOM_TRA_1PNPDE20070118_015646_000000332054_00432_25536_1608.N1	18-JAN-2007 01:56:46	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	25536	No
29	GOM_TRA_1PNPDE20070118_015853_000000332054_00432_25536_1609.N1	18-JAN-2007 01:58:53	Bright	33.000	126	60Bet Oph	2.7700	4250.0	66	25536	No
30	GOM_TRA_1PNPDE20070118_020410_000000372054_00432_25536_1702.N1	18-JAN-2007 02:04:10	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	25536	No
31	GOM_TRA_1PNPDE20070118_020838_000000502054_00432_25536_1703.N1	18-JAN-2007 02:08:38	Twi_and_stray	50.000	16	21Alp Sco	1.0200	3000.0	100	25536	No
32	GOM_TRA_1PNPDE20070118_021015_000000452054_00432_25536_1704.N1	18-JAN-2007 02:10:15	Twilight	45.000	75	26Eps Sco	2.2910	4250.0	90	25536	No
33	GOM_TRA_1PNPDE20070118_021358_000000392054_00432_25536_1705.N1	18-JAN-2007 02:13:58	Dark	38.500	131	Gam Lup	2.8000	26000.	77	25536	No
34	GOM_TRA_1PNPDE20070118_021946_000000422054_00433_25537_1706.N1	18-JAN-2007 02:19:46	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	25537	No
35	GOM_TRA_1PNPDE20070118_022841_000000382054_00433_25537_1707.N1	18-JAN-2007 02:28:41	Dark	38.000	29	Bet Car	1.6720	10200.	76	25537	No
36	GOM_TRA_1PNPDE20070118_023041_000000452054_00433_25537_1708.N1	18-JAN-2007 02:30:41	Dark	45.000	71	Iot Car	2.2460	7700.0	90	25537	No
37	GOM_TRA_1PNPDE20070118_023232_000000442054_00433_25537_1709.N1	18-JAN-2007 02:32:32	Dark	44.000	46	Del Vel	1.9540	10600.	88	25537	No
38	GOM_TRA_1PNPDE20070118_023523_000000452054_00433_25537_1710.N1	18-JAN-2007 02:35:23	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	25537	No
39	GOM_TRA_1PNPDE20070118_023858_000000452054_00433_25537_1711.N1	18-JAN-2007 02:38:58	Straylight	45.000	117	Pi Pup	2.7060	3800.0	90	25537	No
40	GOM_TRA_1PNPDE20070118_024130_000000442054_00433_25537_1712.N1	18-JAN-2007 02:41:30	Straylight	43.500	23	21Eps CMa	1.5020	26000.	87	25537	No
41	GOM_TRA_1PNPDE20070118_024255_000000412054_00433_25537_1713.N1	18-JAN-2007 02:42:55	Straylight	40.500	179	24Omi2CMa	3.0320	24000.	81	25537	No
42	GOM_TRA_1PNPDE20070118_024507_000000432054_00433_25537_1714.N1	18-JAN-2007 02:45:07	Straylight	43.000	1	9Alp CMa	-1.4400	11000.	86	25537	No
43	GOM_TRA_1PNPDE20070118_024737_000000422054_00433_25537_1715.N1	18-JAN-2007 02:47:37	Straylight	41.500	56	53Kap Ori	2.0650	30000.	83	25537	No
44	GOM_TRA_1PNPDE20070118_024848_000000392054_00433_25537_1716.N1	18-JAN-2007 02:48:48	Twi_and_stray	39.000	125	44Iot Ori	2.7700	30000.	78	25537	No
45	GOM_TRA_1PNPDE20070118_025005_000000432054_00433_25537_1717.N1	18-JAN-2007 02:50:05	Twi_and_stray	43.000	30	46Eps Ori	1.6940	30000.	86	25537	No
46	GOM_TRA_1PNPDE20070118_025216_000000512054_00433_25537_1718.N1	18-JAN-2007 02:52:16	Twi_and_stray	50.500	14	58Alp Ori	0.87000	3000.0	101	25537	No
47	GOM_TRA_1PNPDE20070118_025440_000000442054_00433_25537_1719.N1	18-JAN-2007 02:54:40	Bright	44.000	44	24Gam Gem	1.9280	11000.	88	25537	No
48	GOM_TRA_1PNPDE20070118_030002_000000382054_00433_25537_1720.N1	18-JAN-2007 03:00:02	Bright	38.000	114	3Iot Aur	2.6930	4600.0	76	25537	No
49	GOM_TRA_1PNPDE20070118_030245_000000362054_00433_25537_1721.N1	18-JAN-2007 03:02:45	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	25537	No

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



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

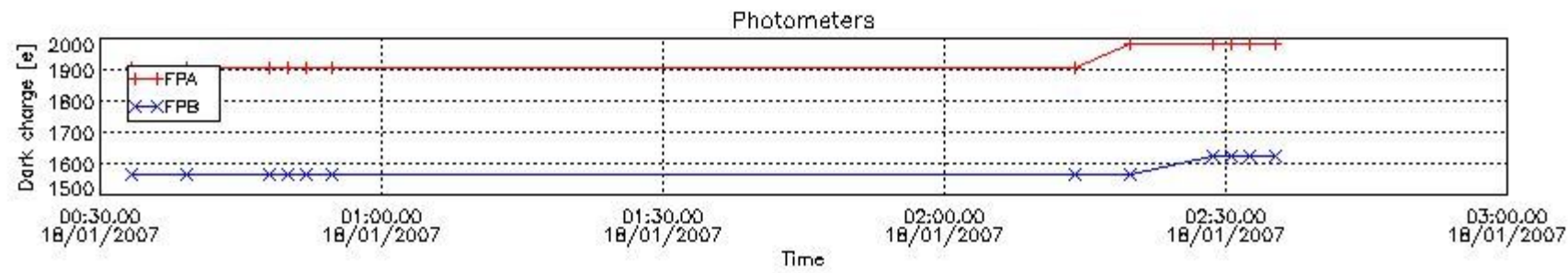
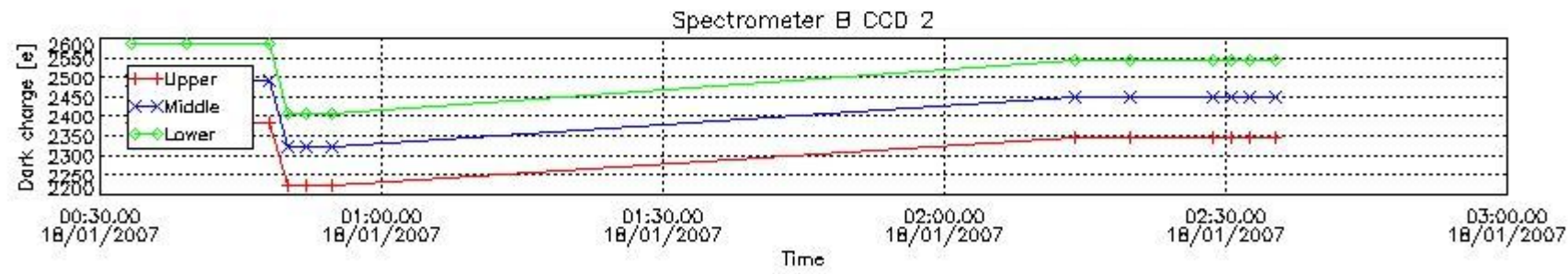
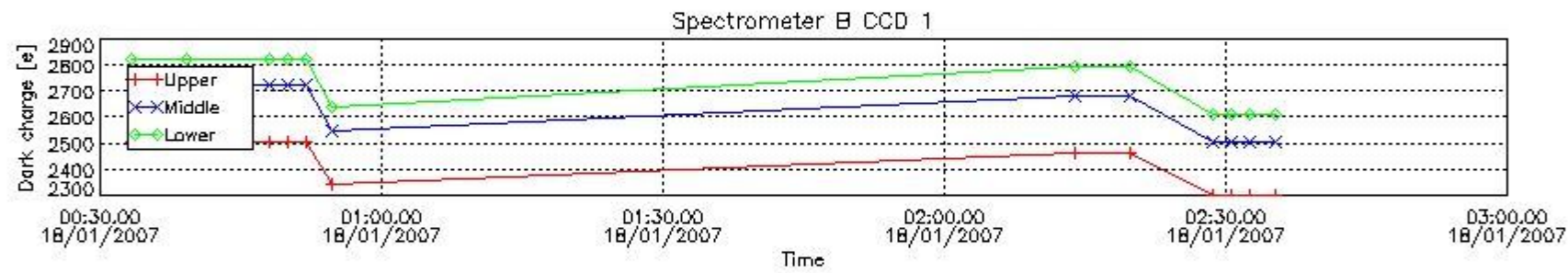
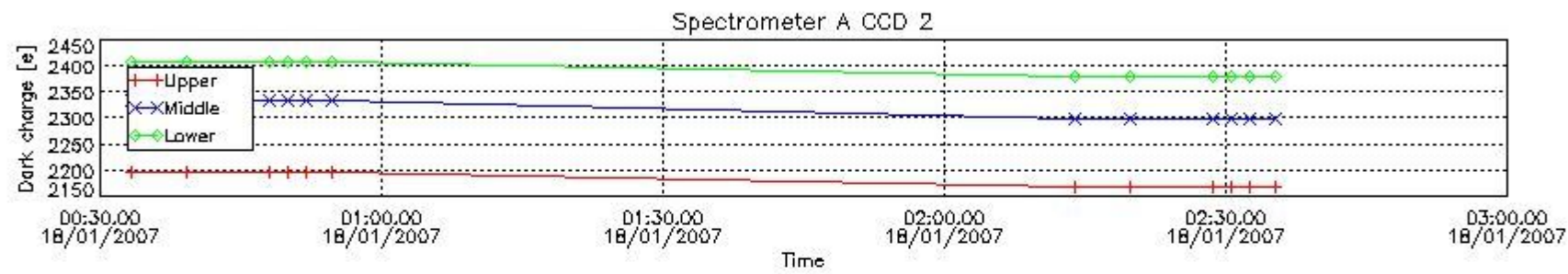
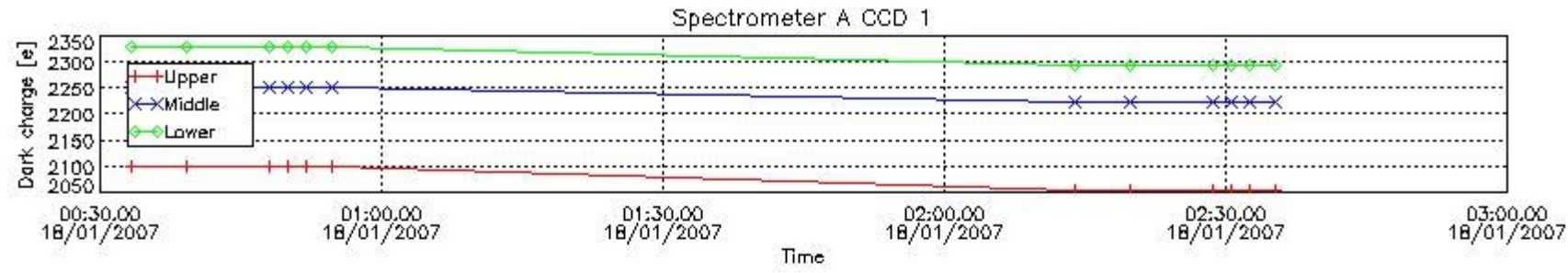
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





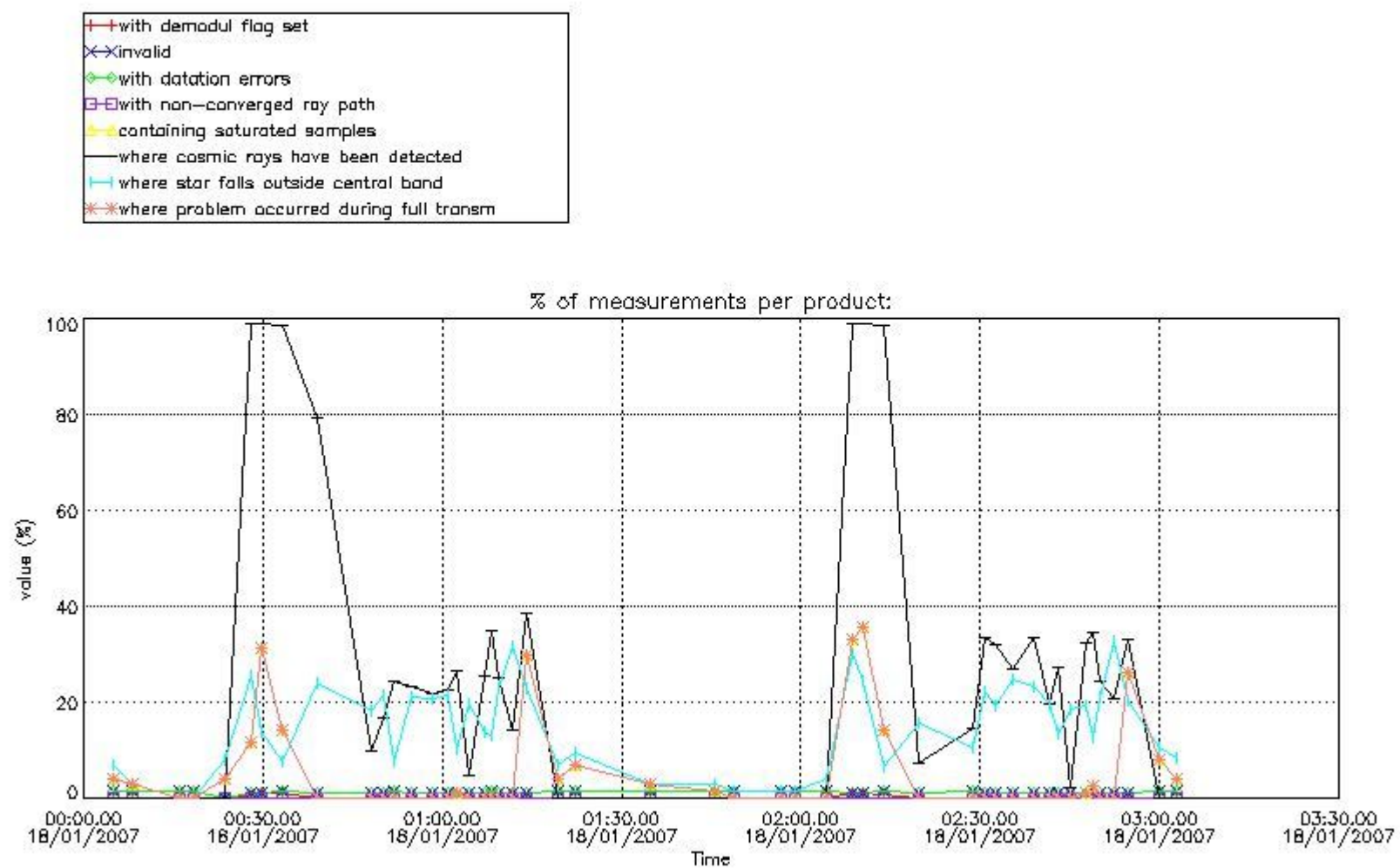
## 5. Demodulation flag and quality information monitoring

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.

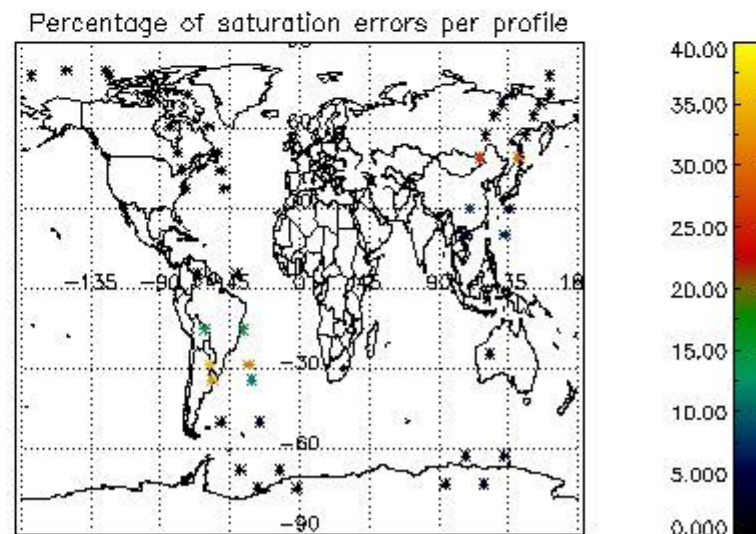
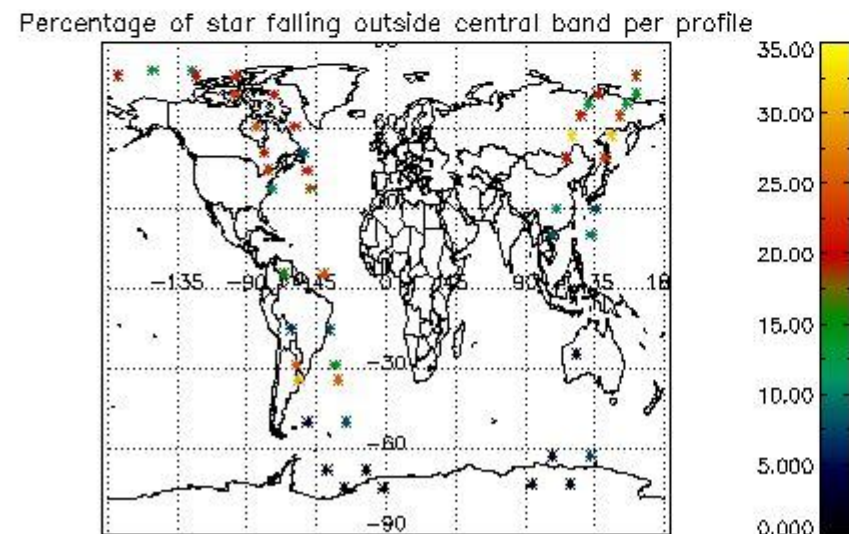
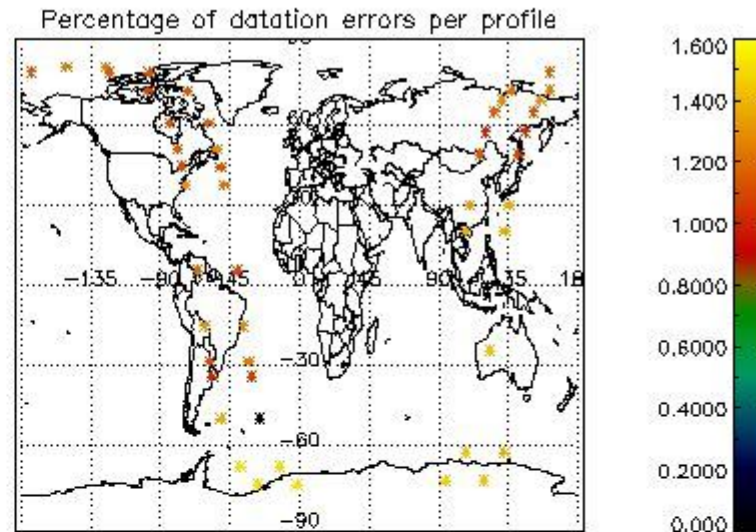
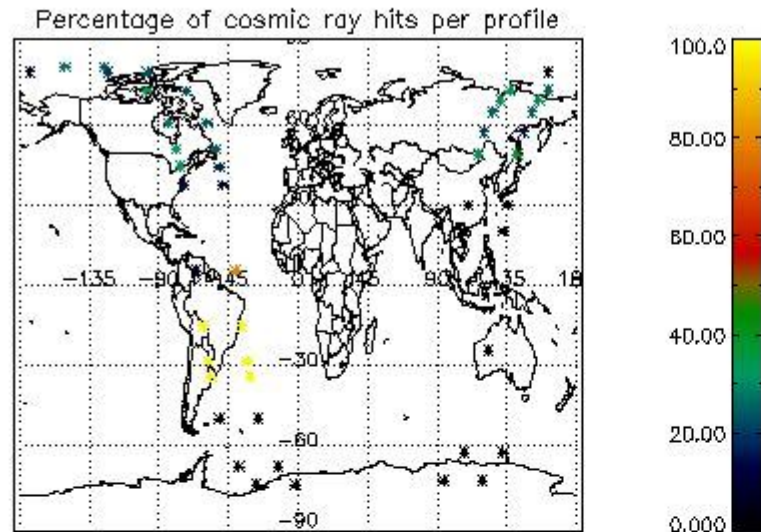
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	28.5714 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



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

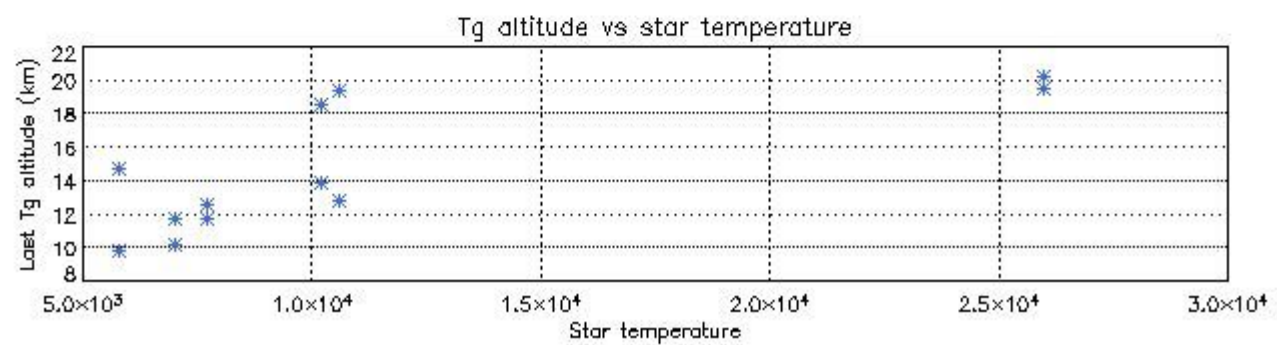
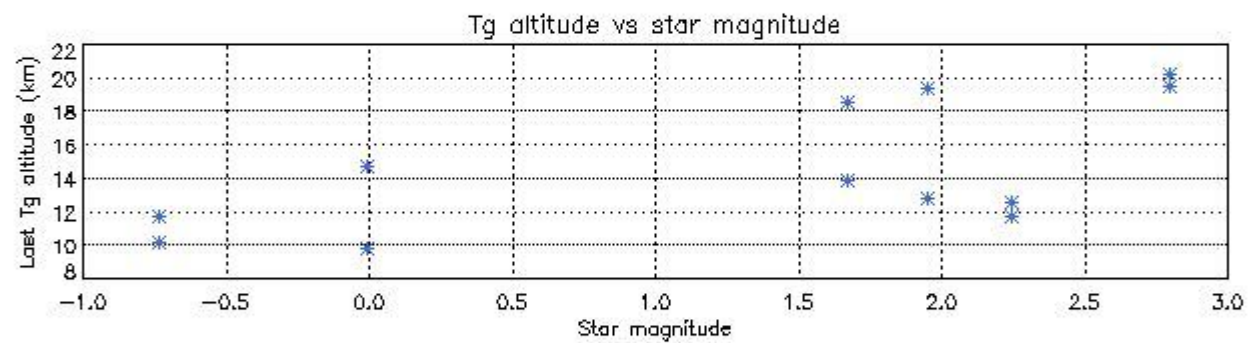
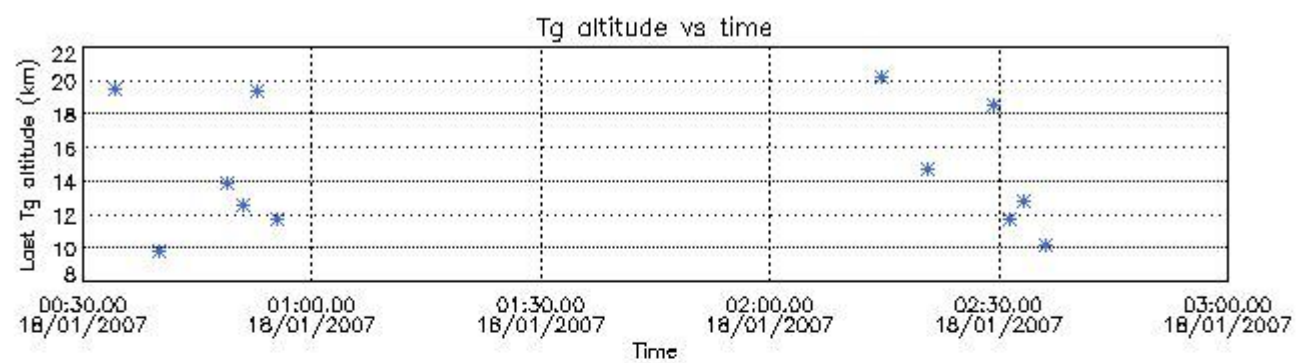
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.577	20.836	11.782
St. deviation:	3.8484	4.7145	3.3208
Maximum:	20.221	26.108	14.130
Minimum:	9.7796	10.173	9.4340
Number of data:	12.000	17.000	2.0000

### 6.2 Plot for DARK limb products



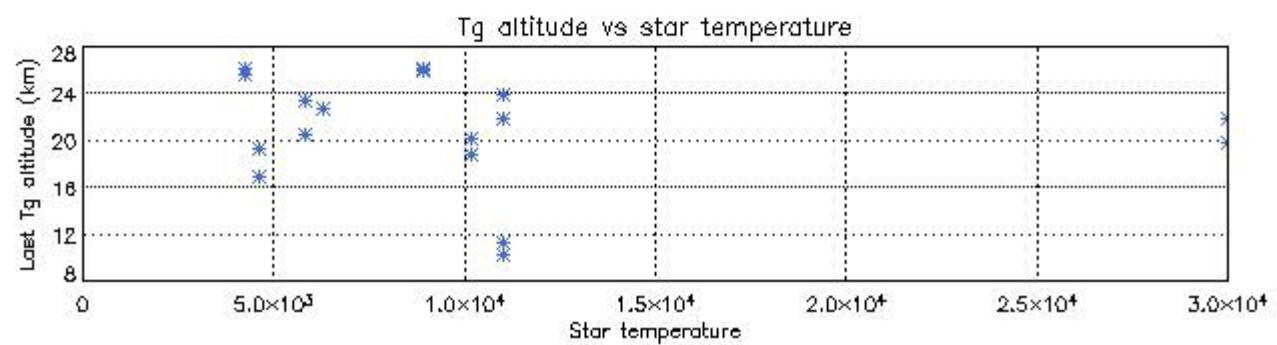
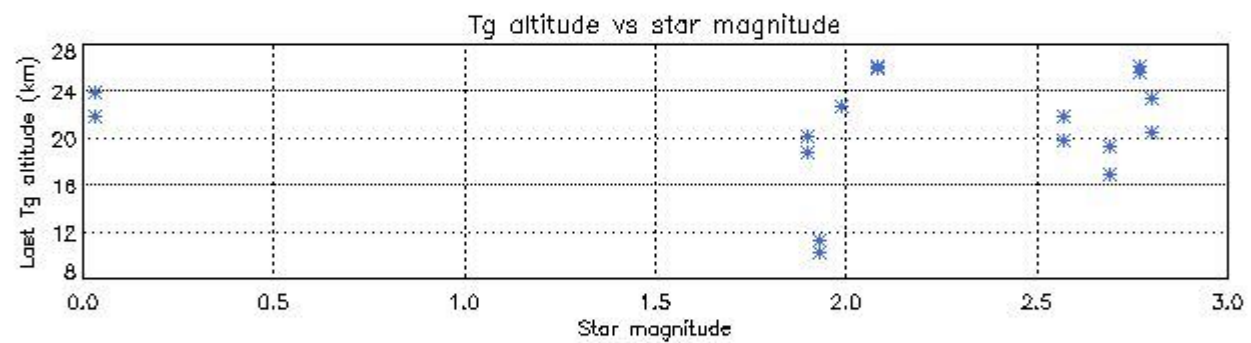
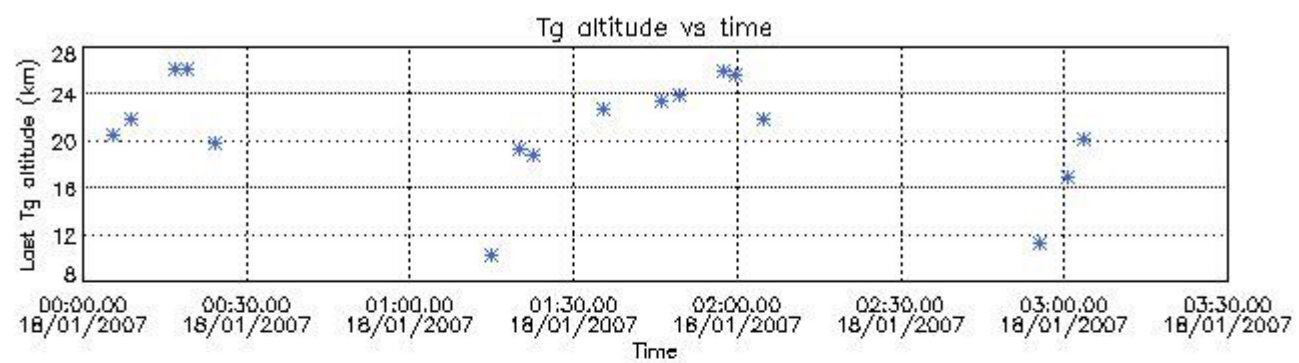
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

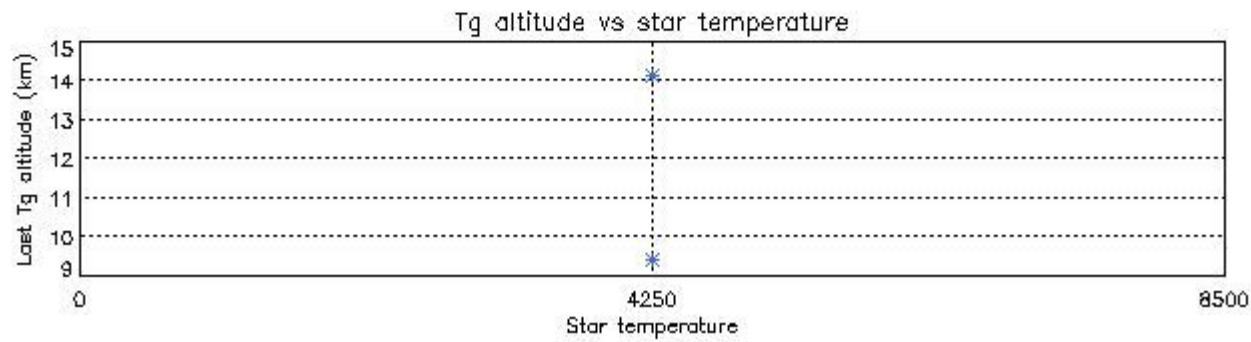
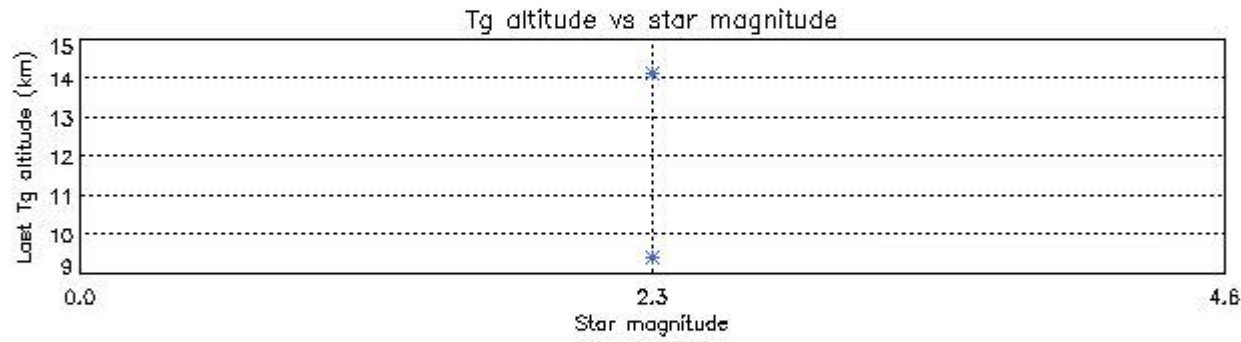
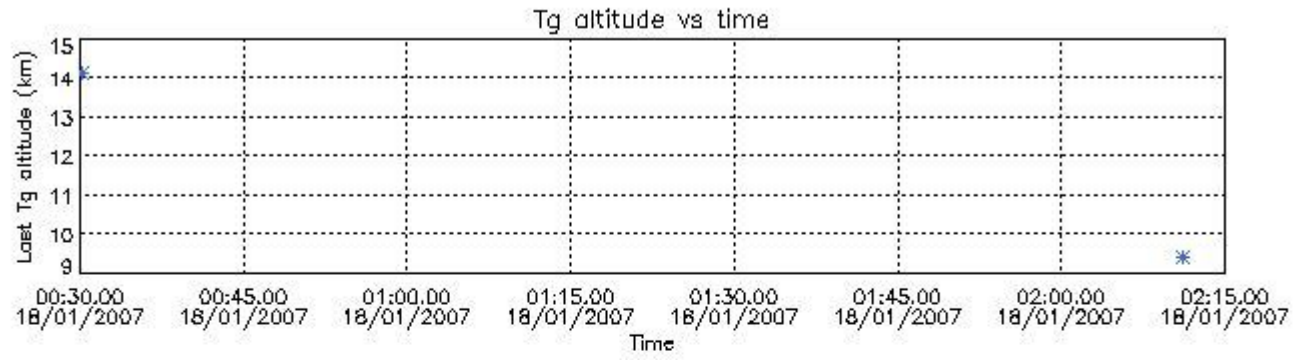


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

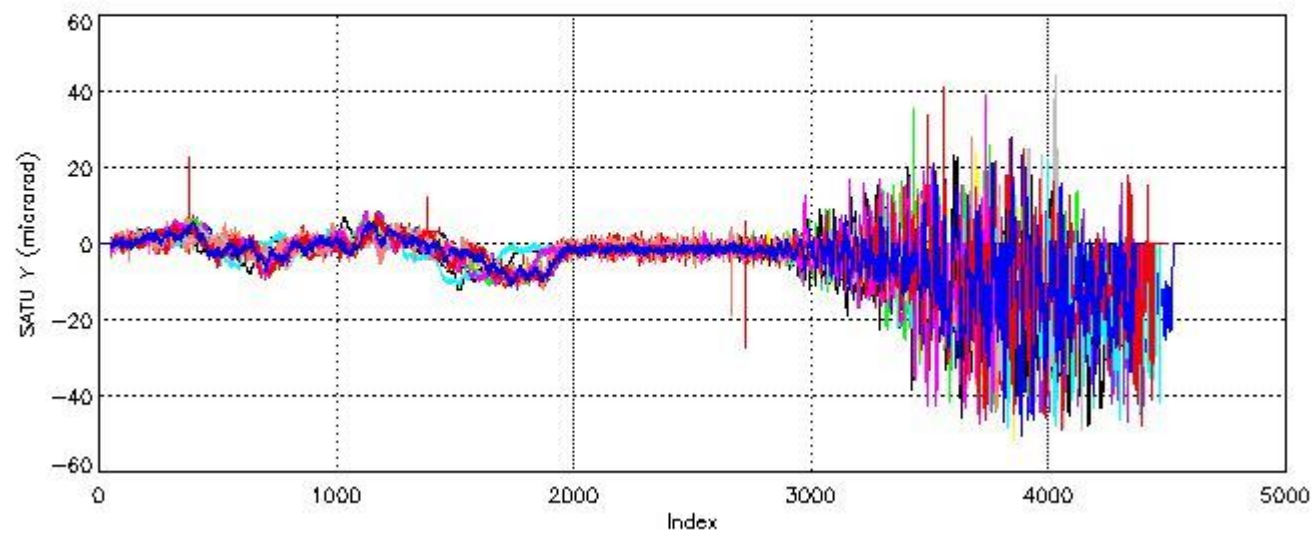
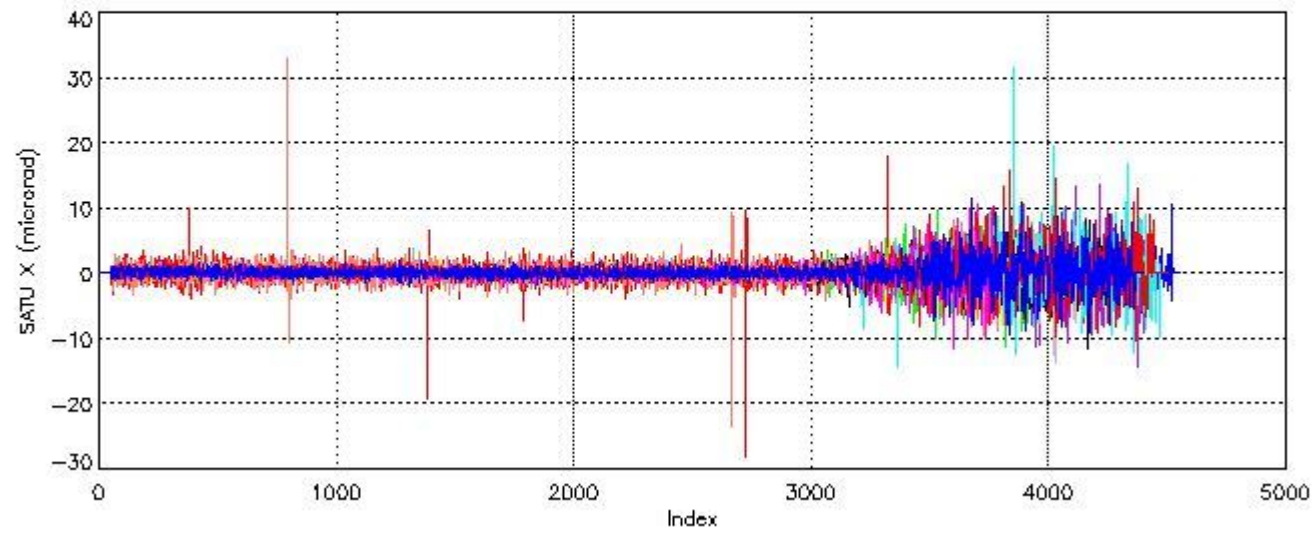


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.10681	-0.32518	0.0039591	-0.21853
St. deviation:	0.56122	2.4834	0.63336	2.5474
Maximum:	32.800	22.600	3.6000	7.3000
Minimum:	-10.800	-9.5000	-3.8000	-10.800



Number of data:	10650.	10650.	14150.	14150.
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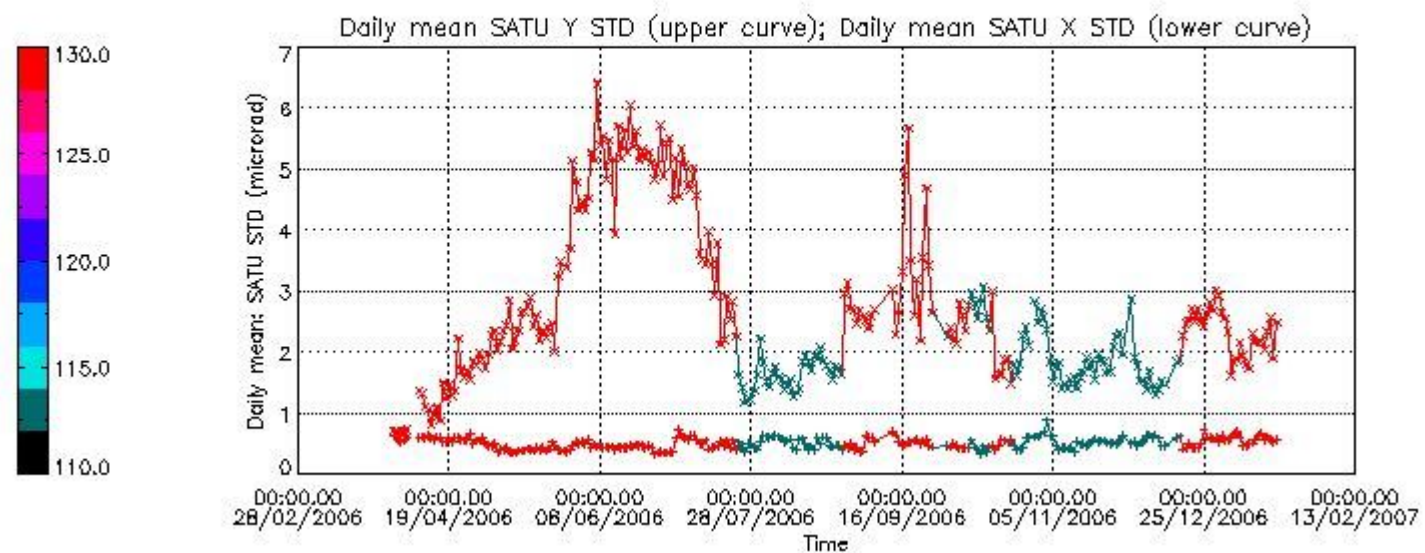
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

Lower curve: STD of SATU X axis

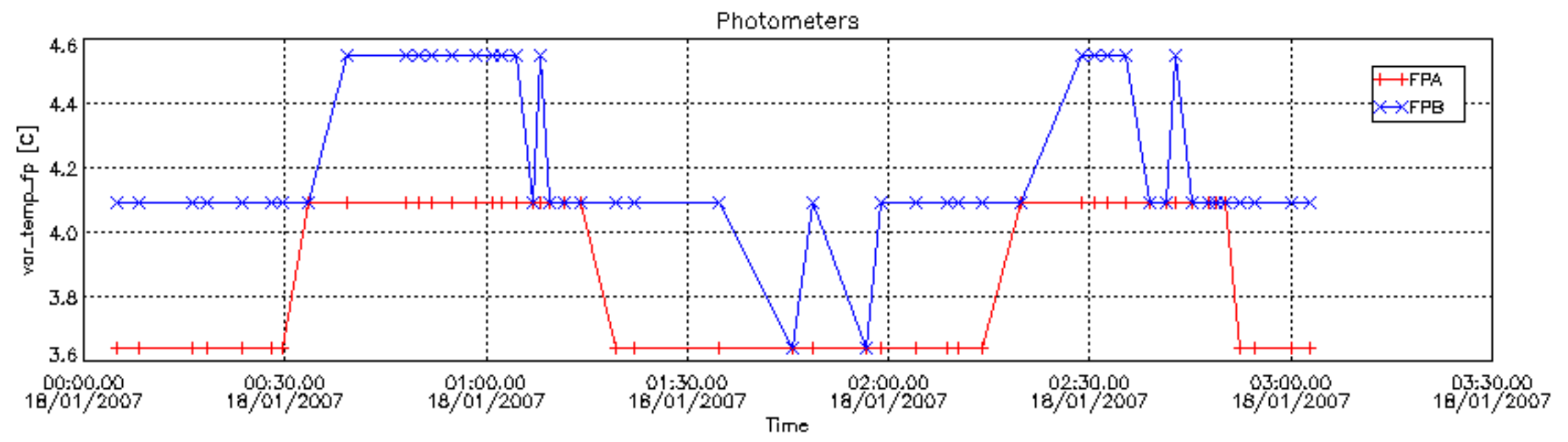
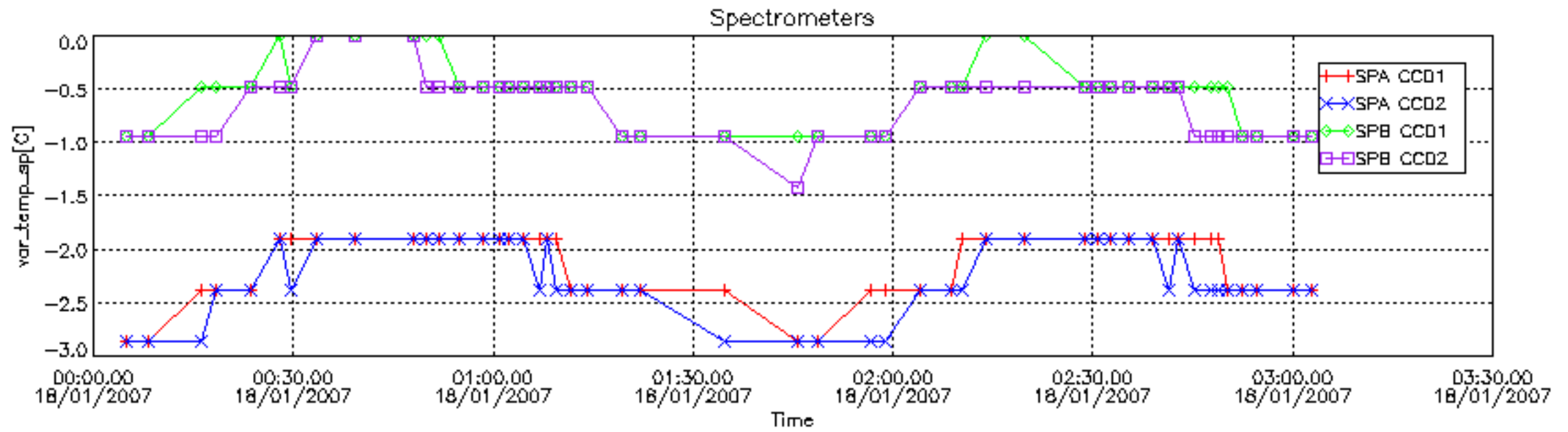


### 8. Auxiliary Data Files used for the production reported in section 2.4

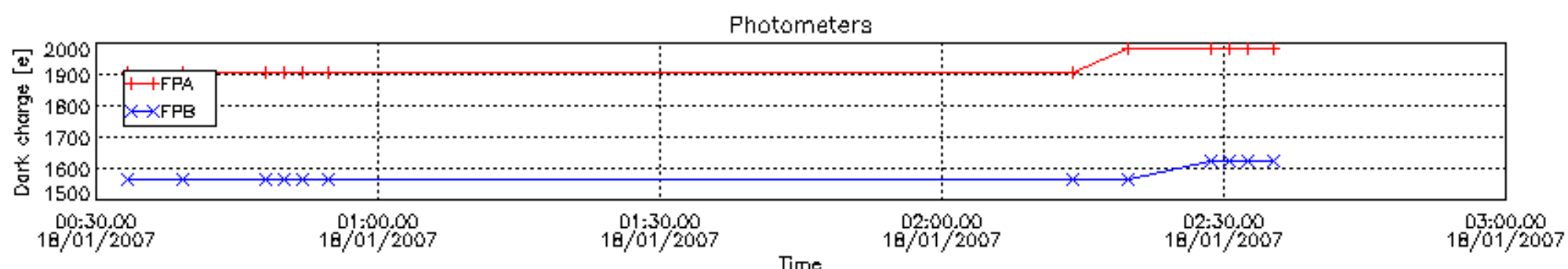
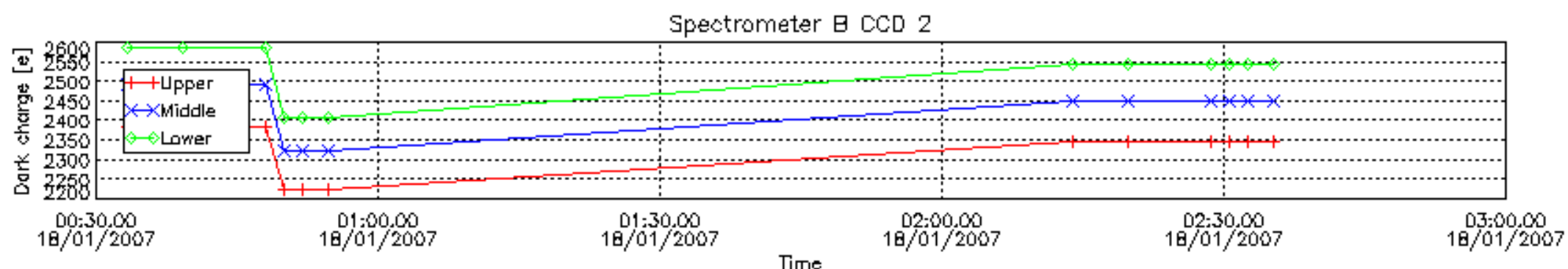
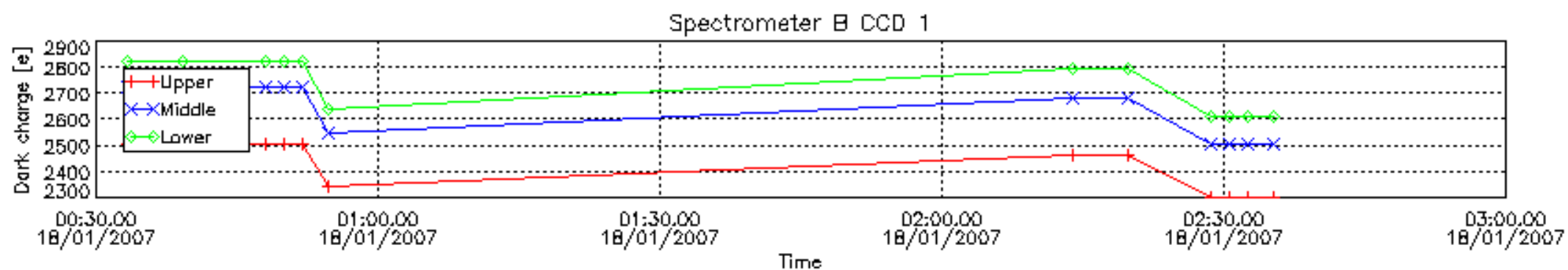
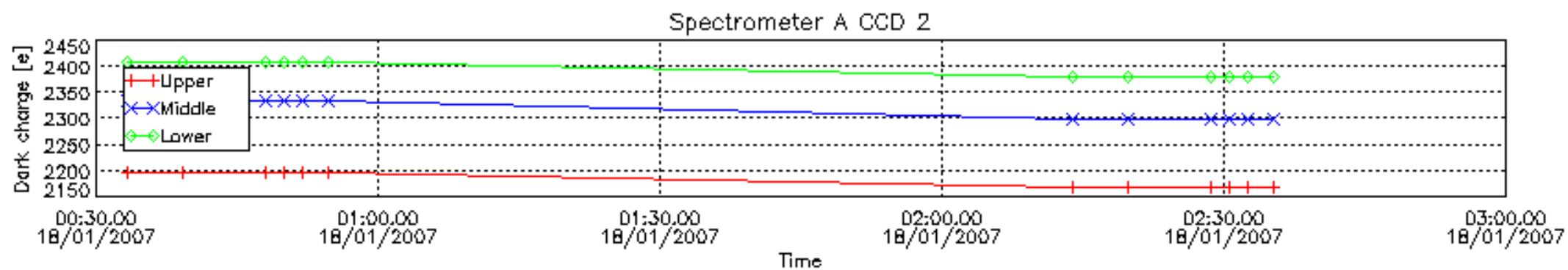
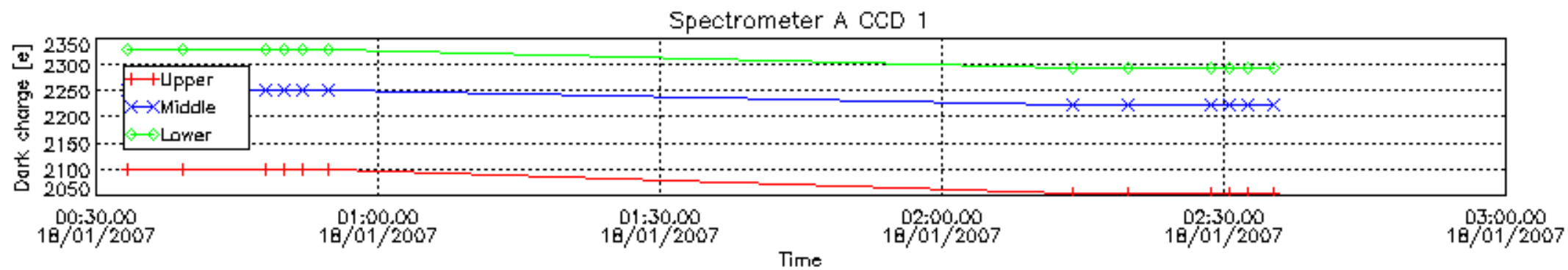
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

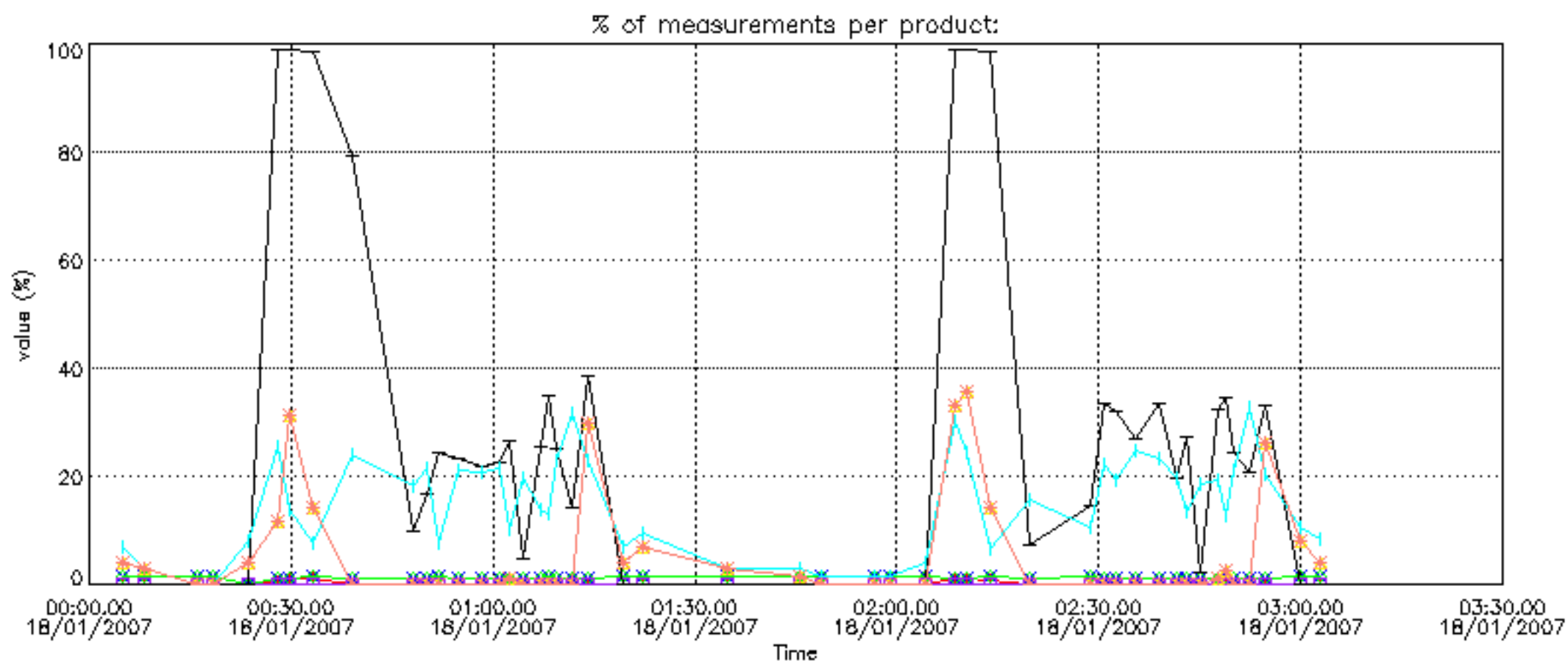
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	18-JAN-2007 00:05:01
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070117_105731_20070116_000000_20100101_000000	1	18-JAN-2007 00:05:01
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	18-JAN-2007 00:05:01
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-JAN-2007 00:05:01
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	18-JAN-2007 00:05:01
ECMWF_FILE	AUX_ECF_AXNECM20070117_063000_20070117_210000_20070118_090000	1	18-JAN-2007 00:05:01
OPTIONAL_ECMWF_FILE	MISSING	1	18-JAN-2007 00:05:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070117_205720_000060572054_00429_25533_2595.N1	1	18-JAN-2007 00:05:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070118_002432_000054192054_00431_25535_2597.N1	6	18-JAN-2007 00:28:01



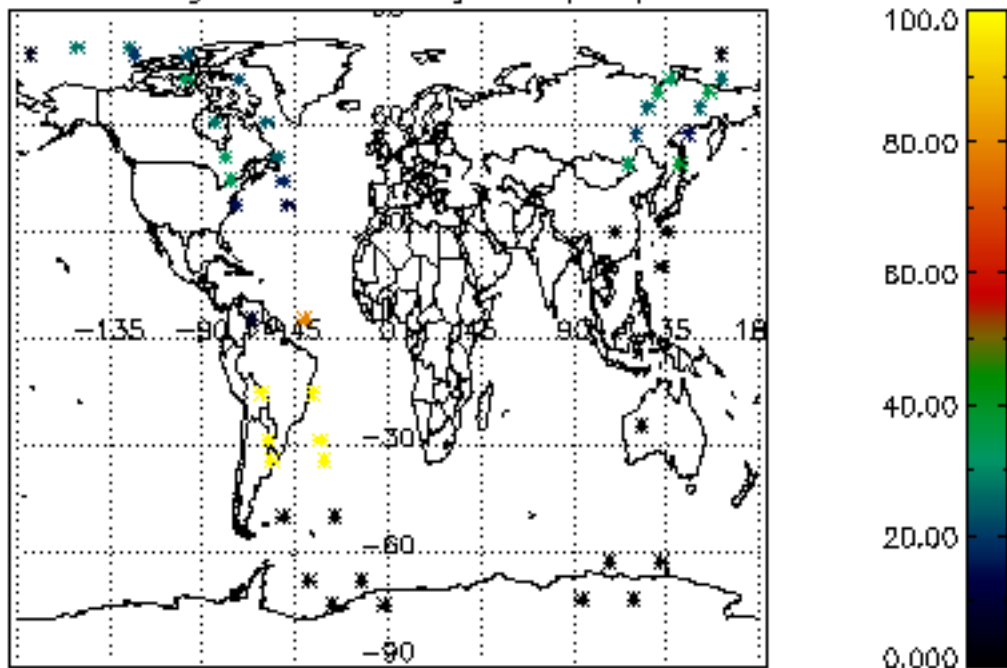




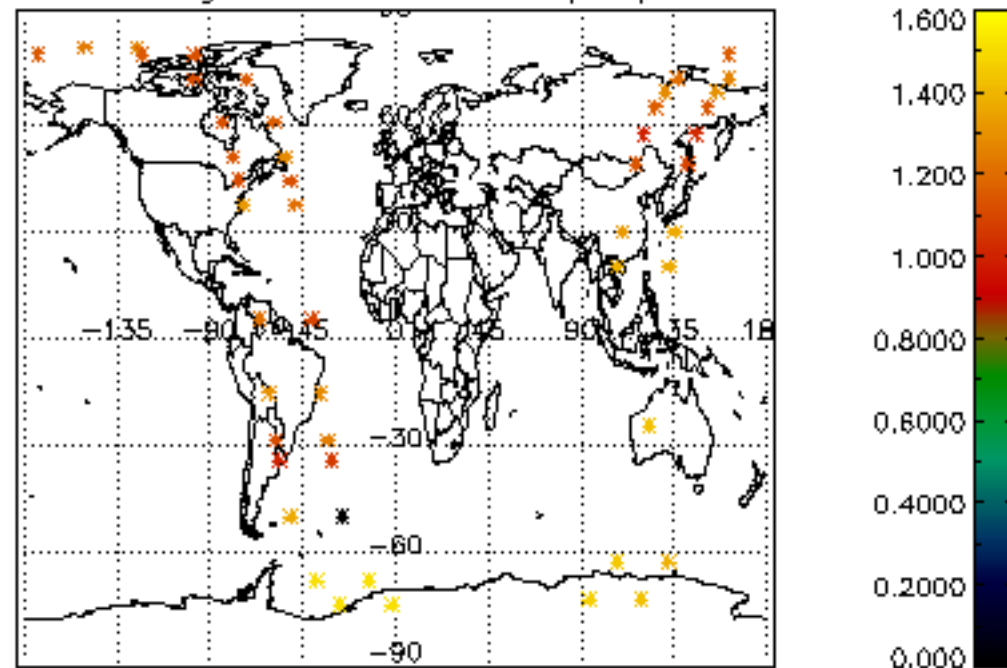




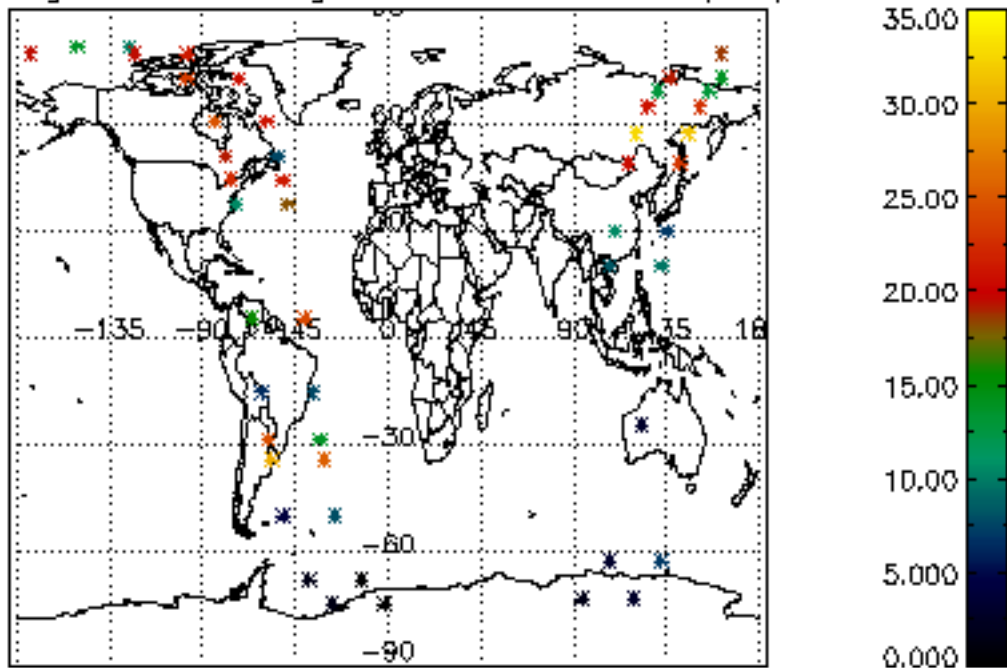
Percentage of cosmic ray hits per profile



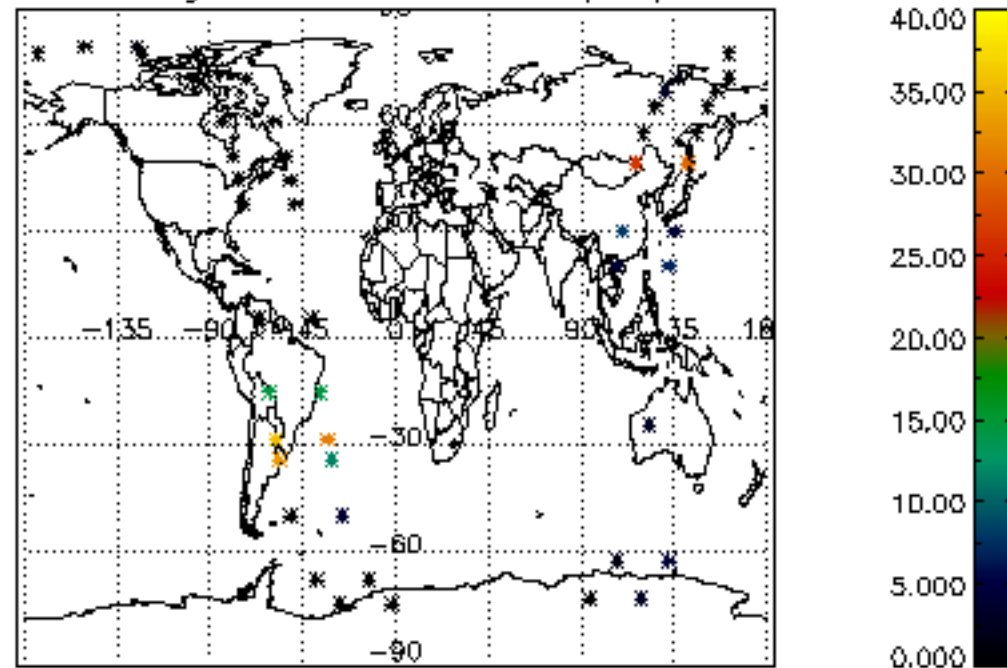
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

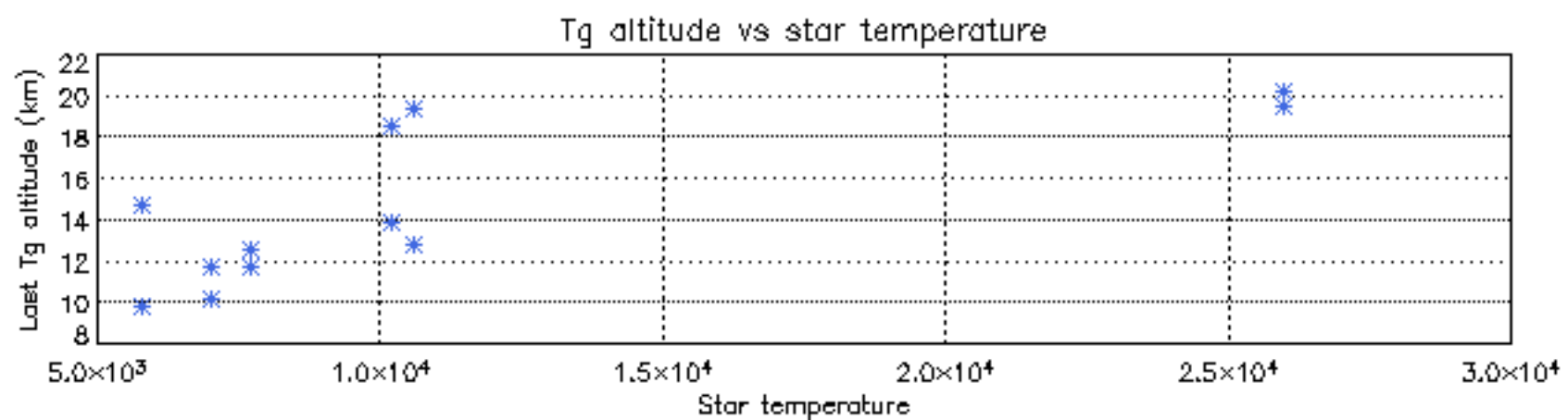
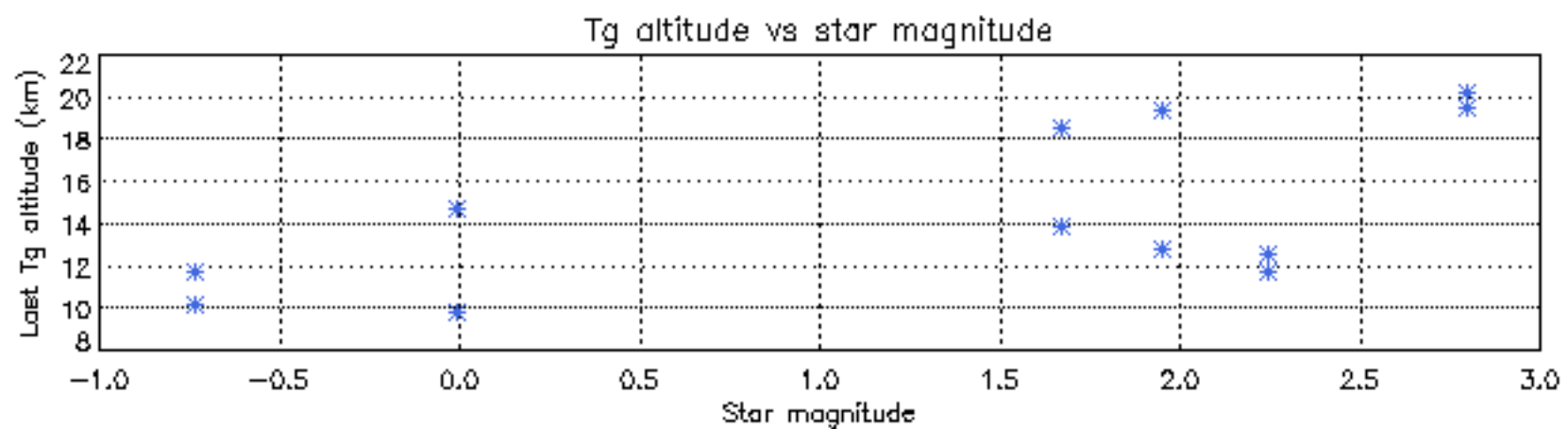
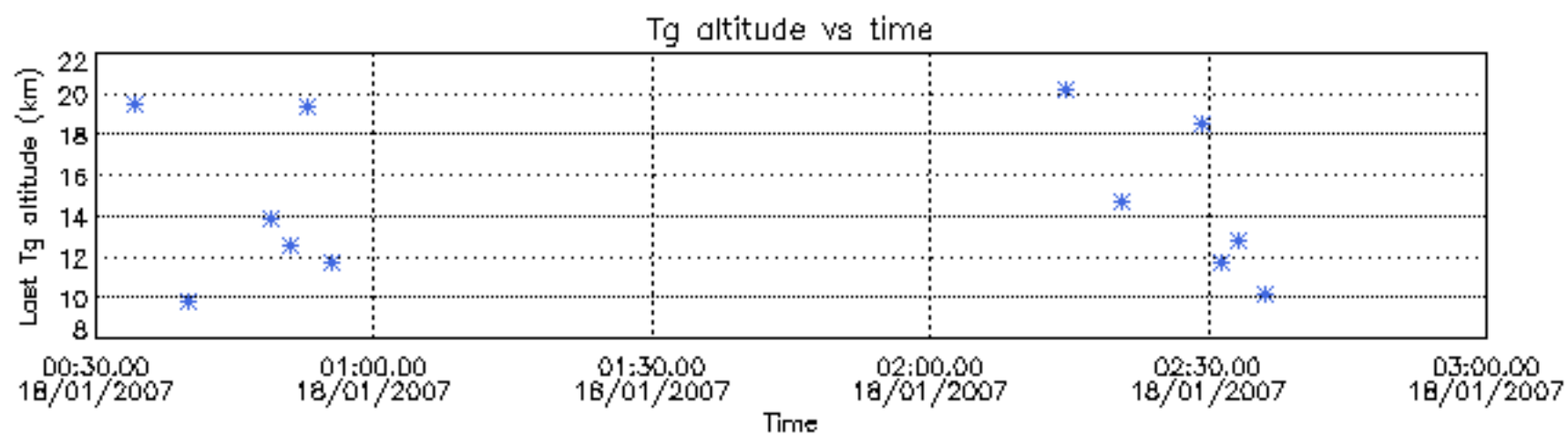


Percentage of saturation errors per profile

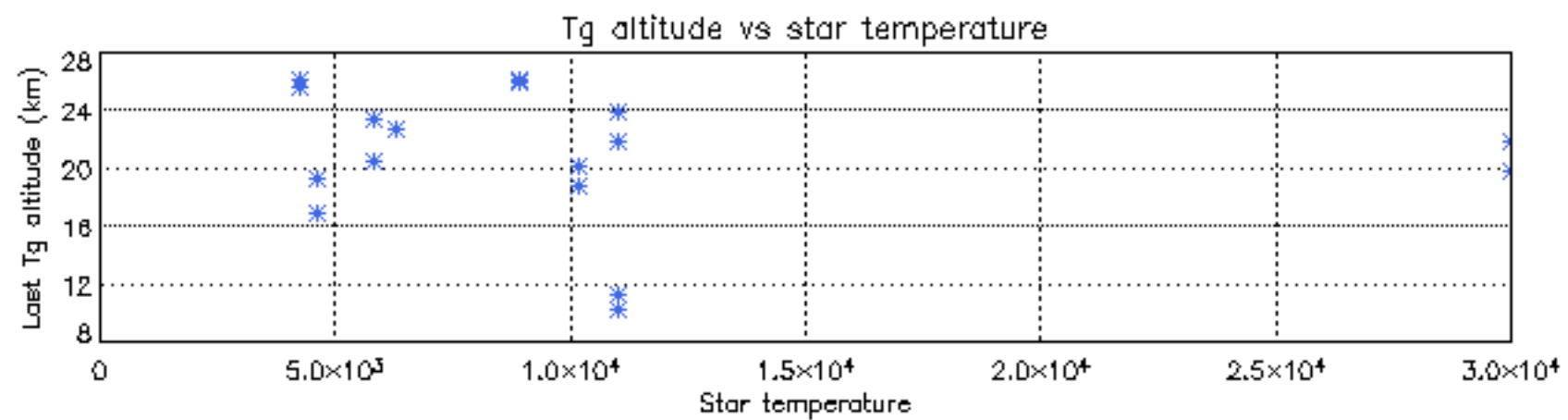
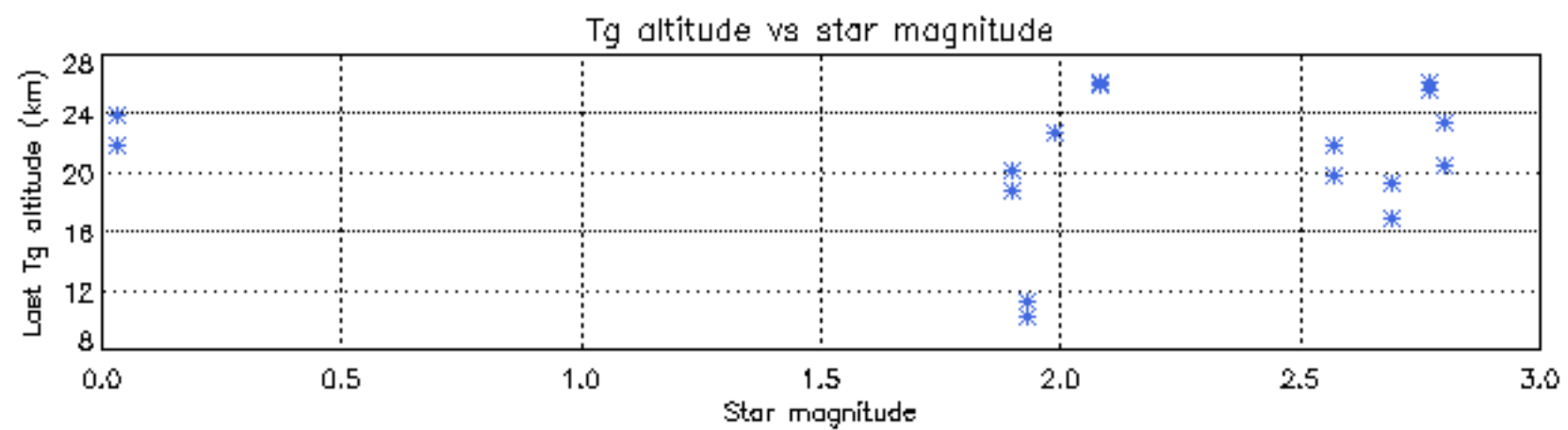
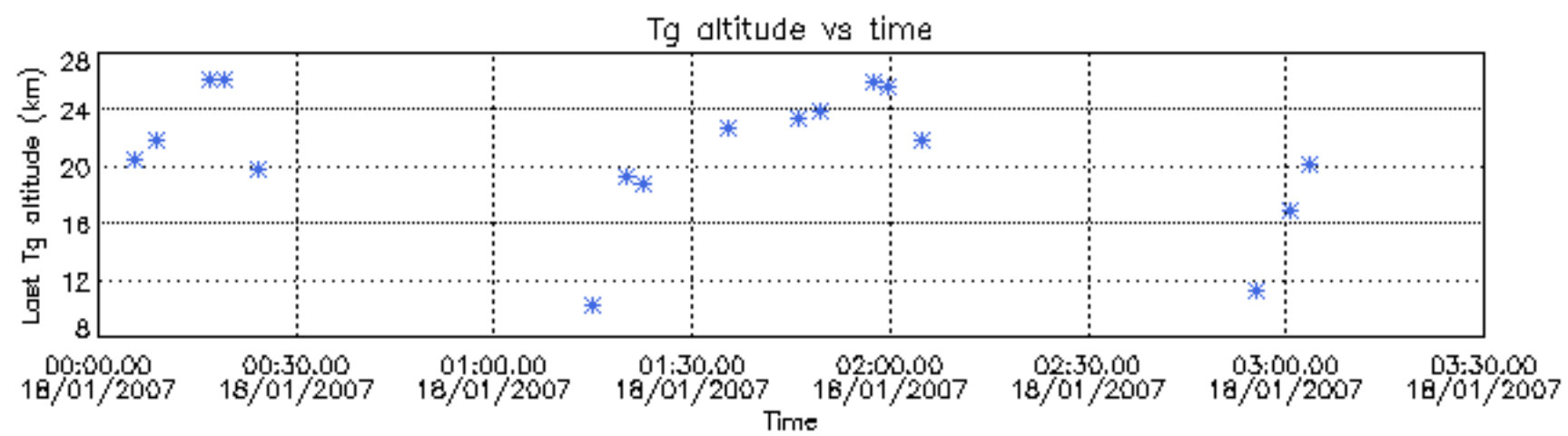




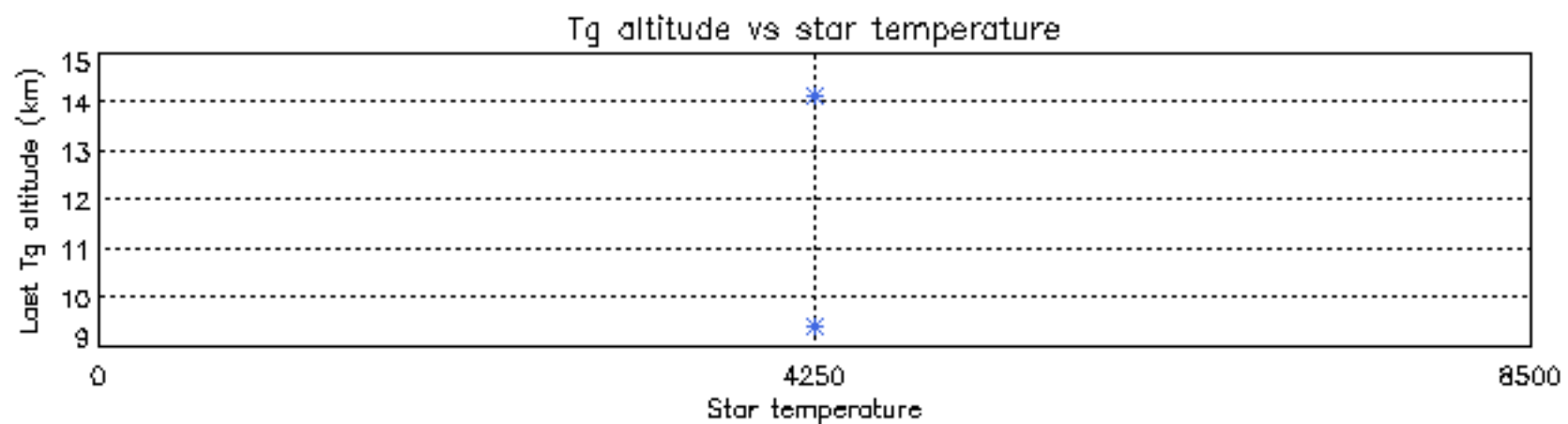
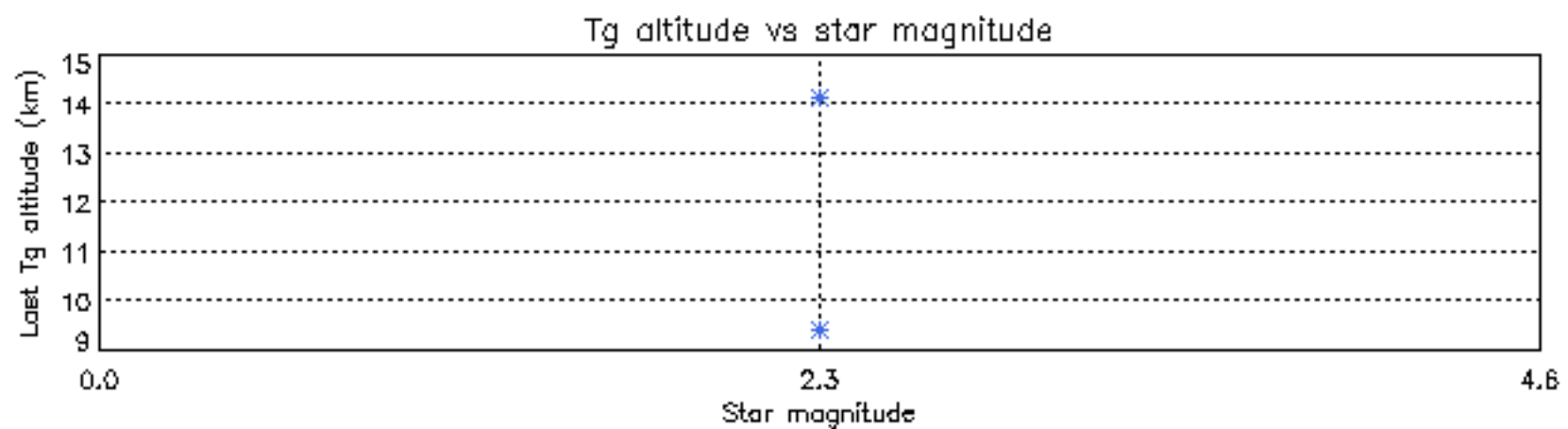
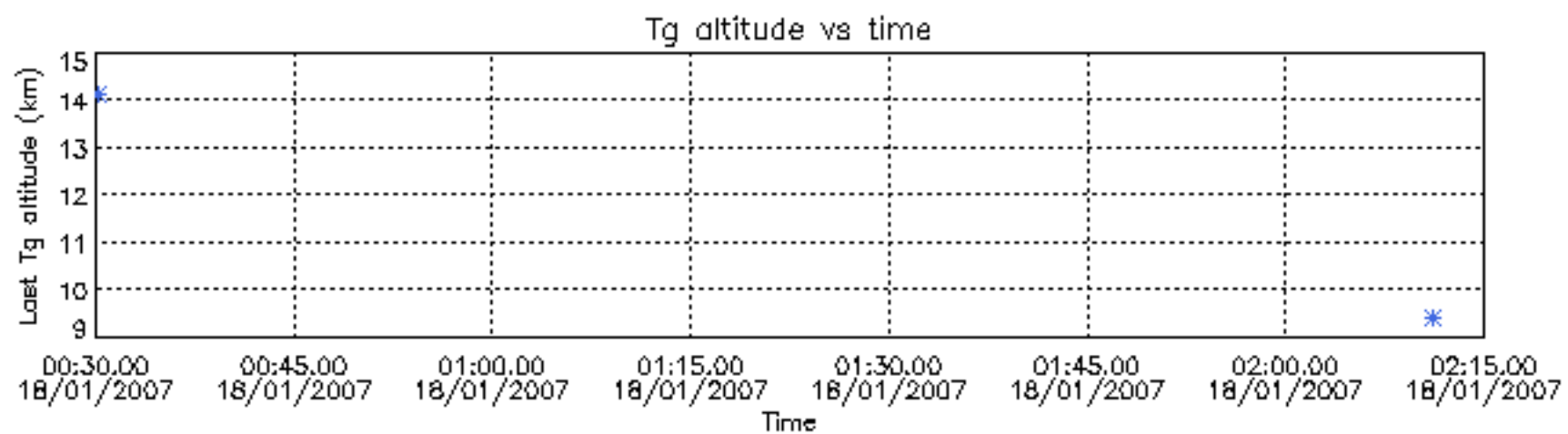
Tangent altitude at which the star is lost



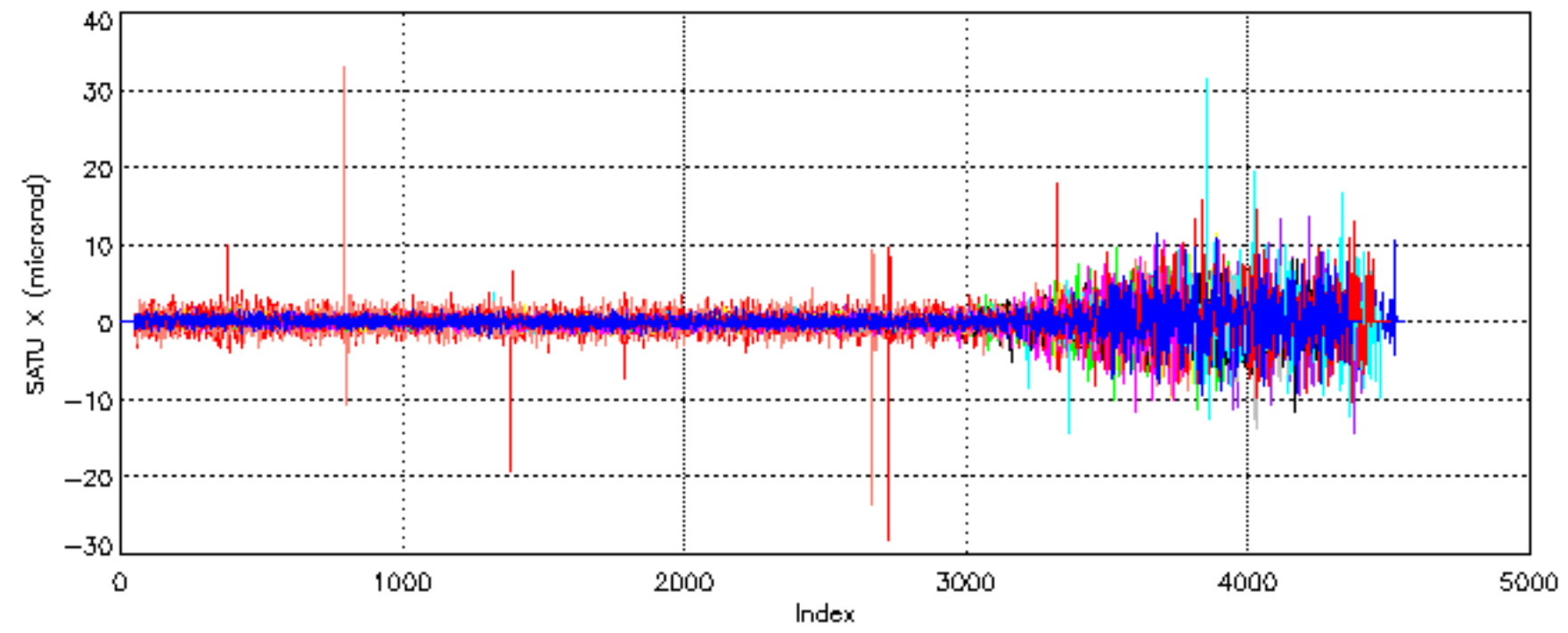
Tangent altitude at which the star is lost

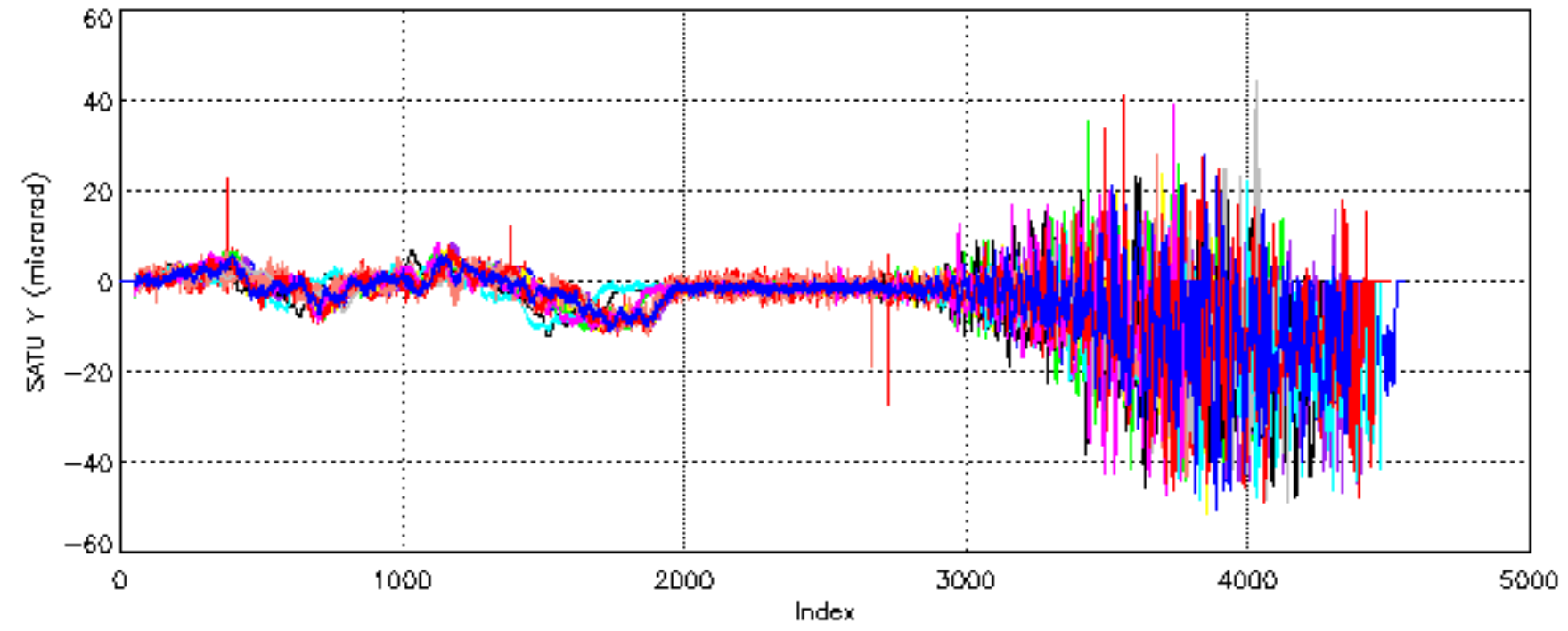


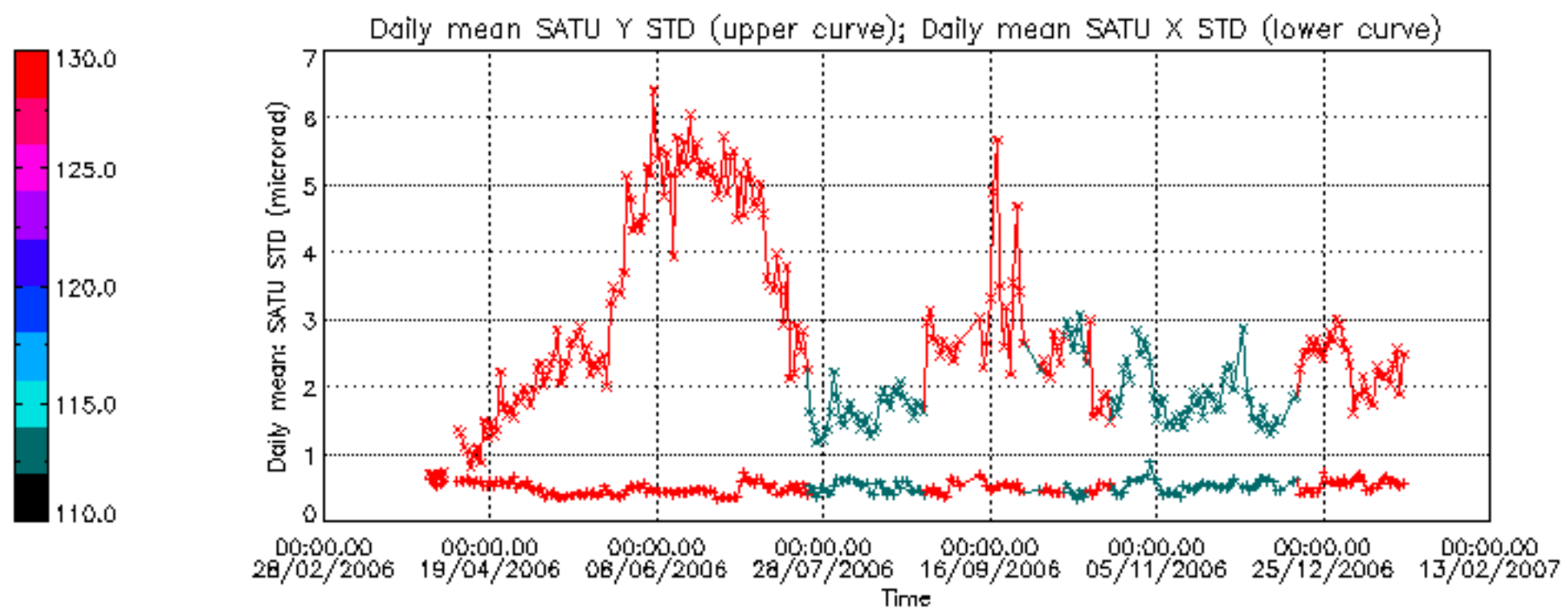
Tangent altitude at which the star is lost











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 3; -105.1; 01-JAN-2007 01:10:25; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25292  
 4; 38.6; 01-JAN-2007 01:12:49; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;25293  
 5; 228.2; 01-JAN-2007 01:15:58; Dark ; 49.0; 12; Alp1Cru ; 0.77; 30000;occ; 98; 0;25293  
 6; 429.2; 01-JAN-2007 01:19:19; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25293  
 7; 546.4; 01-JAN-2007 01:21:17; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;25293  
 8; 629.3; 01-JAN-2007 01:22:40; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;25293  
 9; 731.4; 01-JAN-2007 01:24:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25293  
 10; 978.2; 01-JAN-2007 01:28:28; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;25293  
 11; 1171.6; 01-JAN-2007 01:31:42; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;25293  
 12; 1340.2; 01-JAN-2007 01:34:30; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;25293  
 13; 1569.2; 01-JAN-2007 01:38:19; Dark ; 43.0; 47; 2Bet CMA ; 1.98; 28000;occ; 86; 0;25293  
 14; 1769.4; 01-JAN-2007 01:41:40; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;25293  
 15; 1881.5; 01-JAN-2007 01:43:32; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;25293  
 16; 2033.3; 01-JAN-2007 01:46:04; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;25293  
 17; 2271.5; 01-JAN-2007 01:50:02; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25293  
 18; 2397.8; 01-JAN-2007 01:52:08; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;25293  
 19; 2472.5; 01-JAN-2007 01:53:23; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;25293  
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 21; 2693.1; 01-JAN-2007 01:57:03; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;25293  
 22; 3423.2; 01-JAN-2007 02:09:13; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;25293  
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 3; -1490.4; 01-JAN-2007 02:27:56; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;25293  
 4; -1146.0; 01-JAN-2007 02:33:40; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;25293  
 5; -842.6; 01-JAN-2007 02:38:44; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;25293  
 6; -281.2; 01-JAN-2007 02:48:05; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;25293  
 7; -192.8; 01-JAN-2007 02:49:33; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;25293  
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 9; 39.0; 01-JAN-2007 02:53:25; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;25294  
 10; 228.9; 01-JAN-2007 02:56:35; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;25294  
 11; 429.7; 01-JAN-2007 02:59:56; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25294  
 12; 547.0; 01-JAN-2007 03:01:53; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;25294  
 13; 629.9; 01-JAN-2007 03:03:16; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;25294  
 14; 732.0; 01-JAN-2007 03:04:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25294  
 15; 978.5; 01-JAN-2007 03:09:05; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;25294  
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 21; 2033.2; 01-JAN-2007 03:26:39; Dark ; 51.5; 14; 58Alp Ori ; 0.87; 3000;occ; 103; 0;25294  
 22; 2271.5; 01-JAN-2007 03:30:38; Bright; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;25294  
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 24; 2472.6; 01-JAN-2007 03:33:59; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;25294  
 25; 2567.8; 01-JAN-2007 03:35:34; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;25294  
 26; 2693.1; 01-JAN-2007 03:37:39; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;25294  
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 2; -2114.0; 01-JAN-2007 03:58:08; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;25294  
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 7; -683.3; 01-JAN-2007 04:21:59; Dark ; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;25294  
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 10; -103.8; 01-JAN-2007 04:31:38; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;25294  
 11; 39.4; 01-JAN-2007 04:34:02; Dark ; 49.5; 10; Bet Cen ; 0.61; 28000;occ; 99; 0;25295  
 12; 229.3; 01-JAN-2007 04:37:11; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;25295  
 13; 430.3; 01-JAN-2007 04:40:32; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;25295  
 14; 547.2; 01-JAN-2007 04:42:29; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;25295  
 15; 630.4; 01-JAN-2007 04:43:53; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;25295

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18; 1172.4; 01-JAN-2007 04:52:55; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;25295
19; 1340.8; 01-JAN-2007 04:55:43; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;25295
20; 1569.4; 01-JAN-2007 04:59:32; Dark ; 43.5; 47; 2Bet CMA ; 1.98; 28000;occ; 87; 0;25295
21; 1769.7; 01-JAN-2007 05:02:52; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;25295
22; 1881.5; 01-JAN-2007 05:04:44; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;25295
23; 2033.2; 01-JAN-2007 05:07:15; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;25295
24; 2271.4; 01-JAN-2007 05:11:14; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25295
25; 2397.7; 01-JAN-2007 05:13:20; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;25295
26; 2472.7; 01-JAN-2007 05:14:35; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;25295
27; 2567.6; 01-JAN-2007 05:16:10; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;25295
28; 2693.0; 01-JAN-2007 05:18:15; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;25295
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4; -1490.2; 01-JAN-2007 05:49:08; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;25295
5; -1145.4; 01-JAN-2007 05:54:53; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;25295
6; -841.9; 01-JAN-2007 05:59:56; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;25295
7; -682.8; 01-JAN-2007 06:02:35; Dark ; 44.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 89; 0;25295
8; -280.4; 01-JAN-2007 06:09:18; Dark ; 36.5; 109; Bet Lup ; 2.68; 26000;occ; 73; 0;25295
9; -191.9; 01-JAN-2007 06:10:46; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;25295
10; -103.2; 01-JAN-2007 06:12:15; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25295
11; 39.8; 01-JAN-2007 06:14:38; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;25296
12; 229.8; 01-JAN-2007 06:17:48; Dark ; 50.5; 12; Alp1Cru ; 0.77; 30000;occ; 101; 0;25296
13; 430.8; 01-JAN-2007 06:21:09; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25296
14; 547.5; 01-JAN-2007 06:23:06; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25296
15; 630.9; 01-JAN-2007 06:24:29; Dark ; 47.0; 71; Iot Car ; 2.25; 7700;occ; 94; 0;25296
16; 733.1; 01-JAN-2007 06:26:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25296
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18; 1172.8; 01-JAN-2007 06:33:31; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;25296
19; 1341.0; 01-JAN-2007 06:36:19; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;25296
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22; 1881.6; 01-JAN-2007 06:45:20; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;25296
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24; 2271.2; 01-JAN-2007 06:51:49; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25296
25; 2397.5; 01-JAN-2007 06:53:56; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;25296
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27; 2567.5; 01-JAN-2007 06:56:46; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;25296
28; 2692.9; 01-JAN-2007 06:58:51; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;25296
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9; 2692.6; 01-JAN-2007 12:00:38; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;25299  
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11; 3690.7; 01-JAN-2007 12:17:17; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;25299  
12; 3921.9; 01-JAN-2007 12:21:08; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;25299  
13; 4422.7; 01-JAN-2007 12:29:29; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;25299  
14; 4546.5; 01-JAN-2007 12:31:32; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;25299  
15; 4891.6; 01-JAN-2007 12:37:17; Bright; 54.0; 102; 24Alp Ser ; 2.60; 4250;occ; 108; 0;25299  
16; 5196.0; 01-JAN-2007 12:42:22; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;25299  
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26; 6771.3; 01-JAN-2007 13:08:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25299  
27; 7016.0; 01-JAN-2007 13:12:42; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;25299  
28; 7210.1; 01-JAN-2007 13:15:56; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;25299  
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3; 1881.7; 01-JAN-2007 13:27:43; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;25300  
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10; 3423.3; 01-JAN-2007 13:53:25; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;25300  
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12; 3922.3; 01-JAN-2007 14:01:44; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;25300  
13; 4423.0; 01-JAN-2007 14:10:05; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;25300  
14; 4546.8; 01-JAN-2007 14:12:08; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;25300  
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16; 5196.4; 01-JAN-2007 14:22:58; Bright; 56.0; 104; 27Bet Lib ; 2.61; 13100;occ; 112; 0;25300  
17; 5356.1; 01-JAN-2007 14:25:38; Dark ; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;25300  
18; 5757.7; 01-JAN-2007 14:32:19; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;25300  
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3; 232.3; 01-JAN-2007 14:40:50; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;25301  
4; 433.6; 01-JAN-2007 14:44:11; Dark ; 36.0; 124; The Car ; 2.76; 30000;occ; 72; 0;25301  
5; 549.3; 01-JAN-2007 14:46:07; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;25301  
6; 633.6; 01-JAN-2007 14:47:31; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;25301  
7; 736.1; 01-JAN-2007 14:49:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25301  
8; 980.4; 01-JAN-2007 14:53:18; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;25301



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4; 3423.3; 01-JAN-2007 15:34:01; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;25301
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6; 3922.4; 01-JAN-2007 15:42:20; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;25301
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8; 4547.1; 01-JAN-2007 15:52:45; Bright; 55.0; 67; 5Alp CrB ; 2.22; 11000;occ; 110; 0;25301
9; 4892.5; 01-JAN-2007 15:58:30; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;25301
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11; 5357.0; 01-JAN-2007 16:06:15; Dark ; 43.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 86; 0;25301
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15; 6268.9; 01-JAN-2007 16:21:26; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;25301
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3; -96.5; 02-JAN-2007 00:38:57; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;25306
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 33; 3671.4; 12-JAN-2007 06:29:08; Bright; 31.0; 60; 7Bet UMi ; 2.08; 3950;occ; 62; 0;25453

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 33; 7416.5; 12-JAN-2007 14:13:57; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;25457  
 34; 7502.8; 12-JAN-2007 14:15:23; Dark ; 4.5; 179; 240mi2CMA ; 3.03; 24000;occ; 9; 0;25457

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1; 1413.6; 12-JAN-2007 14:14:30; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 66;25458  
 2; 1467.0; 12-JAN-2007 14:15:23; Dark ; 42.0; 179; 240mi2CMA ; 3.03; 24000;occ; 84; 0;25458  
 3; 1602.7; 12-JAN-2007 14:17:39; Dark ; 48.0; 1; 9Alp CMA ; -1.44; 11000;occ; 96; 0;25458  
 4; 1751.2; 12-JAN-2007 14:20:07; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;25458  
 5; 1820.8; 12-JAN-2007 14:21:17; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25458  
 6; 1898.6; 12-JAN-2007 14:22:35; Dark ; 39.5; 30; 46Eps Ori ; 1.69; 30000;occ; 79; 0;25458  
 7; 2035.0; 12-JAN-2007 14:24:51; Dark ; 10.5; 14; 58Alp Ori ; 0.87; 3000;occ; 21; 0;25458

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1; 2045.5; 12-JAN-2007 14:25:01; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 21;25458  
 2; 2193.5; 12-JAN-2007 14:27:30; Dark ; 36.0; 44; 24Gam Gem ; 1.93; 11000;occ; 72; 0;25458  
 3; 2271.1; 12-JAN-2007 14:28:47; Bright; 36.0; 176; 23Zet Tau ; 3.02; 22000;occ; 72; 0;25458



4; 2399.7; 12-JAN-2007 14:30:56; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;25458  
5; 2490.6; 12-JAN-2007 14:32:27; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;25458  
6; 2674.6; 12-JAN-2007 14:35:31; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;25458  
7; 3424.7; 12-JAN-2007 14:48:01; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;25458  
8; 3670.7; 12-JAN-2007 14:52:07; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25458  
9; 3924.1; 12-JAN-2007 14:56:20; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;25458  
10; 4072.7; 12-JAN-2007 14:58:49; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;25458  
11; 4447.3; 12-JAN-2007 15:05:03; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;25458  
12; 4630.5; 12-JAN-2007 15:08:07; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;25458  
13; 5080.2; 12-JAN-2007 15:15:36; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;25458  
14; 5165.5; 12-JAN-2007 15:17:02; Bright; 53.0; 98; 13Zet Oph ; 2.57; 30000;occ; 106; 0;25458  
15; 5432.1; 12-JAN-2007 15:21:28; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;25458  
16; 5740.6; 12-JAN-2007 15:26:37; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;25458  
17; 5840.0; 12-JAN-2007 15:28:16; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;25458  
18; 5930.6; 12-JAN-2007 15:29:47; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25458  
19; 6045.7; 12-JAN-2007 15:31:42; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;25458  
20; 6148.7; 12-JAN-2007 15:33:25; Dark ; 48.5; 10; Bet Cen ; 0.61; 28000;occ; 97; 0;25458  
21; 6303.4; 12-JAN-2007 15:35:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25458  
22; 6549.9; 12-JAN-2007 15:40:06; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;25458  
23; 6639.7; 12-JAN-2007 15:41:36; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25458  
24; 6748.9; 12-JAN-2007 15:43:25; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;25458  
25; 6828.1; 12-JAN-2007 15:44:44; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;25458  
26; 7026.8; 12-JAN-2007 15:48:03; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;25458  
27; 7156.3; 12-JAN-2007 15:50:12; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;25458  
28; 7261.0; 12-JAN-2007 15:51:57; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;25458

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1; 1380.7; 12-JAN-2007 15:54:33; Dark ; 40.0; 23; 21Eps CMA ; 1.50; 26000;occ; 80; 0;25459  
2; 1467.3; 12-JAN-2007 15:55:59; Dark ; 41.0; 179; 240mi2CMA ; 3.03; 24000;occ; 82; 0;25459  
3; 1602.8; 12-JAN-2007 15:58:15; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;25459  
4; 1751.4; 12-JAN-2007 16:00:43; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;25459  
5; 1820.8; 12-JAN-2007 16:01:53; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25459  
6; 1898.7; 12-JAN-2007 16:03:11; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;25459  
7; 2035.0; 12-JAN-2007 16:05:27; Dark ; 45.0; 14; 58Alp Ori ; 0.87; 3000;occ; 90; 0;25459  
8; 2193.3; 12-JAN-2007 16:08:05; Dark ; 36.0; 44; 24Gam Gem ; 1.93; 11000;occ; 72; 0;25459  
9; 2271.2; 12-JAN-2007 16:09:23; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25459  
10; 2399.7; 12-JAN-2007 16:11:32; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;25459  
11; 2490.8; 12-JAN-2007 16:13:03; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;25459  
12; 2674.5; 12-JAN-2007 16:16:06; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;25459  
13; 3424.8; 12-JAN-2007 16:28:37; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;25459  
14; 3670.4; 12-JAN-2007 16:32:42; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;25459  
15; 3923.8; 12-JAN-2007 16:36:56; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;25459  
16; 4072.5; 12-JAN-2007 16:39:24; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;25459  
17; 4447.5; 12-JAN-2007 16:45:39; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;25459  
18; 4630.6; 12-JAN-2007 16:48:43; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;25459  
19; 5080.6; 12-JAN-2007 16:56:13; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25459  
20; 5165.6; 12-JAN-2007 16:57:38; Bright; 35.0; 98; 13Zet Oph ; 2.57; 30000;occ; 70; 0;25459  
21; 5432.4; 12-JAN-2007 17:02:04; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;25459  
22; 5740.9; 12-JAN-2007 17:07:13; Dark ; 39.5; 131; Gam Lup ; 2.80; 26000;occ; 79; 0;25459  
23; 5840.6; 12-JAN-2007 17:08:53; Dark ; 41.5; 109; Bet Lup ; 2.68; 26000;occ; 83; 0;25459  
24; 5931.2; 12-JAN-2007 17:10:23; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25459  
25; 6046.5; 12-JAN-2007 17:12:18; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;25459  
26; 6149.2; 12-JAN-2007 17:14:01; Dark ; 51.0; 10; Bet Cen ; 0.61; 28000;occ; 102; 0;25459  
27; 6303.7; 12-JAN-2007 17:16:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25459  
28; 6550.5; 12-JAN-2007 17:20:42; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25459  
29; 6639.9; 12-JAN-2007 17:22:12; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;25459  
30; 6749.4; 12-JAN-2007 17:24:01; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;25459  
31; 6828.4; 12-JAN-2007 17:25:20; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;25459  
32; 7027.3; 12-JAN-2007 17:28:39; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;25459  
33; 7156.8; 12-JAN-2007 17:30:49; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;25459

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1; 1158.3; 12-JAN-2007 17:31:26; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 75;25460  
2; 1225.4; 12-JAN-2007 17:32:33; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;25460  
3; 1381.1; 12-JAN-2007 17:35:09; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;25460  
4; 1467.5; 12-JAN-2007 17:36:35; Dark ; 42.0; 179; 240mi2CMA ; 3.03; 24000;occ; 84; 0;25460  
5; 1603.0; 12-JAN-2007 17:38:51; Dark ; 45.5; 1; 9Alp CMA ; -1.44; 11000;occ; 91; 0;25460  
6; 1751.5; 12-JAN-2007 17:41:19; Dark ; 40.0; 56; 53Kap Ori ; 2.07; 30000;occ; 80; 0;25460  
7; 1820.9; 12-JAN-2007 17:42:29; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25460  
8; 1898.8; 12-JAN-2007 17:43:47; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;25460

9; 2035.1; 12-JAN-2007 17:46:03; Dark ; 44.0; 14; 58Alp Ori ; 0.87; 3000;occ; 88; 0;25460  
10; 2193.2; 12-JAN-2007 17:48:41; Dark ; 43.5; 44; 24Gam Gem ; 1.93; 11000;occ; 87; 0;25460  
11; 2271.3; 12-JAN-2007 17:49:59; Bright; 35.5; 176; 23Zet Tau ; 3.02; 22000;occ; 71; 0;25460  
12; 2399.9; 12-JAN-2007 17:52:08; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;25460  
13; 2491.0; 12-JAN-2007 17:53:39; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;25460  
14; 2674.3; 12-JAN-2007 17:56:42; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25460  
15; 3424.8; 12-JAN-2007 18:09:13; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;25460  
16; 3670.2; 12-JAN-2007 18:13:18; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;25460  
17; 3923.7; 12-JAN-2007 18:17:32; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;25460  
18; 4072.7; 12-JAN-2007 18:20:01; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;25460  
19; 4447.5; 12-JAN-2007 18:26:16; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;25460  
20; 4630.8; 12-JAN-2007 18:29:19; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;25460  
21; 5080.9; 12-JAN-2007 18:36:49; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25460  
22; 5165.8; 12-JAN-2007 18:38:14; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;25460  
23; 5432.7; 12-JAN-2007 18:42:41; Dark ; 46.5; 16; 21Alp Sco ; 1.02; 3000;occ; 93; 0;25460  
24; 5741.4; 12-JAN-2007 18:47:49; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;25460  
25; 5841.2; 12-JAN-2007 18:49:29; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;25460  
26; 5931.8; 12-JAN-2007 18:51:00; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25460  
27; 6047.3; 12-JAN-2007 18:52:55; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25460  
28; 6149.6; 12-JAN-2007 18:54:38; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;25460  
29; 6304.0; 12-JAN-2007 18:57:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25460  
30; 6550.8; 12-JAN-2007 19:01:19; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25460  
31; 6640.3; 12-JAN-2007 19:02:48; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;25460  
32; 6749.7; 12-JAN-2007 19:04:38; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;25460  
33; 6828.7; 12-JAN-2007 19:05:57; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;25460

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1; 796.2; 12-JAN-2007 19:06:00; Dark ; 39.5; 41; Eps Car ; 1.86; 4100;occ; 79; 7;25461  
2; 991.6; 12-JAN-2007 19:09:16; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;25461  
3; 1121.3; 12-JAN-2007 19:11:25; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;25461  
4; 1225.6; 12-JAN-2007 19:13:10; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;25461  
5; 1381.2; 12-JAN-2007 19:15:45; Dark ; 41.5; 23; 21Eps CMa ; 1.50; 26000;occ; 83; 0;25461  
6; 1467.7; 12-JAN-2007 19:17:12; Dark ; 41.0; 179; 240mi2CMa ; 3.03; 24000;occ; 82; 0;25461  
7; 1603.0; 12-JAN-2007 19:19:27; Dark ; 50.5; 1; 9Alp CMa ; -1.44; 11000;occ; 101; 0;25461  
8; 1751.6; 12-JAN-2007 19:21:56; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;25461  
9; 1821.2; 12-JAN-2007 19:23:05; Dark ; 36.5; 125; 44Iot Ori ; 2.77; 30000;occ; 73; 0;25461  
10; 1898.9; 12-JAN-2007 19:24:23; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;25461  
11; 2035.1; 12-JAN-2007 19:26:39; Dark ; 45.5; 14; 58Alp Ori ; 0.87; 3000;occ; 91; 0;25461  
12; 2193.1; 12-JAN-2007 19:29:17; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;25461  
13; 2271.3; 12-JAN-2007 19:30:35; Bright; 35.5; 176; 23Zet Tau ; 3.02; 22000;occ; 71; 0;25461  
14; 2399.9; 12-JAN-2007 19:32:44; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;25461  
15; 2491.2; 12-JAN-2007 19:34:15; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;25461  
16; 2674.2; 12-JAN-2007 19:37:18; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;25461  
17; 3424.7; 12-JAN-2007 19:49:49; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;25461  
18; 3670.0; 12-JAN-2007 19:53:54; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;25461  
19; 3923.7; 12-JAN-2007 19:58:08; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;25461  
20; 4072.6; 12-JAN-2007 20:00:37; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;25461  
21; 4447.6; 12-JAN-2007 20:06:52; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;25461  
22; 4631.0; 12-JAN-2007 20:09:55; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;25461  
23; 5081.3; 12-JAN-2007 20:17:25; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25461  
24; 5166.1; 12-JAN-2007 20:18:50; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0;25461  
25; 5433.0; 12-JAN-2007 20:23:17; Dark ; 52.0; 16; 21Alp Sco ; 1.02; 3000;occ; 104; 0;25461  
26; 5741.8; 12-JAN-2007 20:28:26; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;25461  
27; 5841.5; 12-JAN-2007 20:30:05; Dark ; 40.0; 109; Bet Lup ; 2.68; 26000;occ; 80; 0;25461  
28; 5932.2; 12-JAN-2007 20:31:36; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25461  
29; 6047.9; 12-JAN-2007 20:33:32; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25461  
30; 6150.1; 12-JAN-2007 20:35:14; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;25461  
31; 6304.2; 12-JAN-2007 20:37:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25461  
32; 6551.4; 12-JAN-2007 20:41:55; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25461  
33; 6640.5; 12-JAN-2007 20:43:24; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;25461  
34; 6750.1; 12-JAN-2007 20:45:14; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;25461  
35; 6829.0; 12-JAN-2007 20:46:33; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;25461

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1; -2366.4; 13-JAN-2007 02:36:17; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;25465  
2; -2112.2; 13-JAN-2007 02:40:31; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;25465  
3; -1962.9; 13-JAN-2007 02:43:00; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;25465  
4; -1587.8; 13-JAN-2007 02:49:16; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;25465  
5; -1404.1; 13-JAN-2007 02:52:19; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;25465  
6; -953.1; 13-JAN-2007 02:59:50; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;25465

7; -868.3; 13-JAN-2007 03:01:15; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;25465  
8; -601.6; 13-JAN-2007 03:05:42; Dark ; 47.5; 16; 21Alp Sco ; 1.02; 3000;occ; 95; 0;25465  
9; -292.2; 13-JAN-2007 03:10:51; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;25465  
10; -191.8; 13-JAN-2007 03:12:32; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;25465  
11; -101.1; 13-JAN-2007 03:14:02; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;25465  
12; 15.2; 13-JAN-2007 03:15:58; Dark ; 30.0; 95; Zet Cen ; 2.55; 26000;occ; 60; 0;25466  
13; 116.2; 13-JAN-2007 03:17:40; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;25466  
14; 269.3; 13-JAN-2007 03:20:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25466  
15; 517.5; 13-JAN-2007 03:24:21; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;25466  
16; 605.9; 13-JAN-2007 03:25:49; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25466  
17; 716.1; 13-JAN-2007 03:27:39; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;25466  
18; 794.6; 13-JAN-2007 03:28:58; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;25466  
19; 993.8; 13-JAN-2007 03:32:17; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;25466  
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21; 1227.0; 13-JAN-2007 03:36:10; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;25466  
22; 1382.4; 13-JAN-2007 03:38:46; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0;25466  
23; 1468.7; 13-JAN-2007 03:40:12; Dark ; 41.5; 179; 240mi2CMa ; 3.03; 24000;occ; 83; 0;25466  
24; 1603.9; 13-JAN-2007 03:42:27; Dark ; 44.5; 1; 9Alp CMa ; -1.44; 11000;occ; 89; 0;25466  
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26; 1822.2; 13-JAN-2007 03:46:06; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25466  
27; 1899.9; 13-JAN-2007 03:47:23; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;25466  
28; 2035.7; 13-JAN-2007 03:49:39; Dark ; 51.0; 14; 58Alp Ori ; 0.87; 3000;occ; 102; 0;25466  
29; 2192.6; 13-JAN-2007 03:52:16; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;25466  
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31; 2400.4; 13-JAN-2007 03:55:44; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;25466  
32; 2492.2; 13-JAN-2007 03:57:16; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;25466  
33; 2673.9; 13-JAN-2007 04:00:17; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25466  
34; 3424.9; 13-JAN-2007 04:12:48; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;25466

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15; 517.9; 13-JAN-2007 05:04:57; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25467  
16; 606.1; 13-JAN-2007 05:06:25; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;25467  
17; 716.6; 13-JAN-2007 05:08:16; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;25467  
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19; 994.2; 13-JAN-2007 05:12:54; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;25467  
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22; 1382.7; 13-JAN-2007 05:19:22; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;25467  
23; 1468.7; 13-JAN-2007 05:20:48; Dark ; 40.0; 179; 240mi2CMa ; 3.03; 24000;occ; 80; 0;25467  
24; 1604.0; 13-JAN-2007 05:23:03; Dark ; 48.5; 1; 9Alp CMa ; -1.44; 11000;occ; 97; 0;25467  
25; 1752.7; 13-JAN-2007 05:25:32; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;25467  
26; 1822.2; 13-JAN-2007 05:26:42; Dark ; 39.0; 125; 44Iot Ori ; 2.77; 30000;occ; 78; 0;25467  
27; 1899.9; 13-JAN-2007 05:27:59; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;25467  
28; 2035.7; 13-JAN-2007 05:30:15; Dark ; 47.5; 14; 58Alp Ori ; 0.87; 3000;occ; 95; 0;25467  
29; 2192.5; 13-JAN-2007 05:32:52; Dark ; 44.5; 44; 24Gam Gem ; 1.93; 11000;occ; 89; 0;25467  
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31; 2400.6; 13-JAN-2007 05:36:20; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;25467  
32; 2492.4; 13-JAN-2007 05:37:52; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;25467  
33; 2673.8; 13-JAN-2007 05:40:53; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25467  
34; 3424.9; 13-JAN-2007 05:53:24; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;25467

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4; 997.5; 13-JAN-2007 20:18:20; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;25476



5; 1126.8; 13-JAN-2007 20:20:29; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;25476  
6; 1229.7; 13-JAN-2007 20:22:12; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;25476  
7; 1384.5; 13-JAN-2007 20:24:47; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;25476  
8; 1470.3; 13-JAN-2007 20:26:13; Dark ; 40.5; 179; 240mi2CMa ; 3.03; 24000;occ; 81; 0;25476  
9; 1605.3; 13-JAN-2007 20:28:28; Dark ; 45.5; 1; 9Alp CMa ; -1.44; 11000;occ; 91; 0;25476  
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11; 1823.9; 13-JAN-2007 20:32:07; Dark ; 37.0; 125; 44Iot Ori ; 2.77; 30000;occ; 74; 0;25476  
12; 1901.4; 13-JAN-2007 20:33:24; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;25476  
13; 2036.4; 13-JAN-2007 20:35:39; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;25476  
14; 2191.4; 13-JAN-2007 20:38:14; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;25476  
15; 2272.7; 13-JAN-2007 20:39:35; Bright; 35.0; 176; 23Zet Tau ; 3.02; 22000;occ; 70; 0;25476  
16; 2401.5; 13-JAN-2007 20:41:44; Bright; 36.0; 28; 12Bet Tau ; 1.65; 15200;occ; 72; 0;25476  
17; 2494.2; 13-JAN-2007 20:43:17; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;25476  
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19; 3424.8; 13-JAN-2007 20:58:47; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;25476  
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23; 4449.9; 13-JAN-2007 21:15:52; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;25476  
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25; 5087.1; 13-JAN-2007 21:26:30; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25476  
26; 5171.0; 13-JAN-2007 21:27:54; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;25476

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4; -94.2; 13-JAN-2007 21:40:44; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25476  
5; 66.5; 13-JAN-2007 21:43:25; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;25477  
6; 272.2; 13-JAN-2007 21:46:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25477  
7; 522.7; 13-JAN-2007 21:51:01; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;25477  
8; 609.3; 13-JAN-2007 21:52:28; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;25477  
9; 721.2; 13-JAN-2007 21:54:20; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;25477  
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17; 1754.0; 13-JAN-2007 22:11:33; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;25477  
18; 1824.0; 13-JAN-2007 22:12:43; Dark ; 37.0; 125; 44Iot Ori ; 2.77; 30000;occ; 74; 0;25477  
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23; 2401.6; 13-JAN-2007 22:22:20; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;25477  
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25; 2673.2; 13-JAN-2007 22:26:52; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25477  
26; 3424.8; 13-JAN-2007 22:39:23; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;25477  
27; 3667.6; 13-JAN-2007 22:43:26; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25477  
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31; 4634.4; 13-JAN-2007 22:59:33; Bright; 54.0; 127; 27Bet Her ; 2.78; 4700;occ; 108; 0;25477  
32; 5087.5; 13-JAN-2007 23:07:06; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25477  
33; 5171.3; 13-JAN-2007 23:08:30; Bright; 35.0; 98; 13Zet Oph ; 2.57; 30000;occ; 70; 0;25477

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7; 523.4; 13-JAN-2007 23:31:38; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;25478  
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 3;-1962.6; 13-JAN-2007 06:04:13; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;25467  
 4;-1587.4; 13-JAN-2007 06:10:28; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;25467  
 5;-1403.6; 13-JAN-2007 06:13:32; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;25467  
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 13; 117.1; 13-JAN-2007 06:38:52; Dark ; 50.0; 10; Bet Cen ; 0.61; 28000;occ; 100; 0;25468  
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22; 2675.7; 23-JAN-2007 23:53:05; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;25621
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27; 4893.4; 24-JAN-2007 00:30:03; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;25621
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14; 4289.1; 24-JAN-2007 22:07:46; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;25634
15; 4770.2; 24-JAN-2007 22:15:47; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;25634
16; 4896.5; 24-JAN-2007 22:17:53; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;25634
17; 5237.0; 24-JAN-2007 22:23:34; Dark ; 6.0; 98; 13Zet Oph ; 2.57; 30000;occ; 12; 0;25634

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2;	-528.3;	24-JAN-2007	22:28:04;	Dark	;	48.5;	16;	21Alp Sco	;	1.02;	3000;occ;	97;	0;	25634
3;	-442.4;	24-JAN-2007	22:29:30;	Dark	;	41.5;	75;	26Eps Sco	;	2.29;	4250;occ;	83;	0;	25634
4;	-193.9;	24-JAN-2007	22:33:39;	Dark	;	40.5;	131;	Gam Lup	;	2.80;	26000;occ;	81;	0;	25634
5;	16.4;	24-JAN-2007	22:37:09;	Dark	;	32.0;	78;	Alp Lup	;	2.30;	28000;occ;	64;	0;	25635
6;	139.9;	24-JAN-2007	22:39:12;	Dark	;	55.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	110;	0;	25635
7;	314.2;	24-JAN-2007	22:42:07;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	25635
8;	413.4;	24-JAN-2007	22:43:46;	Dark	;	40.0;	12;	Alp1Cru	;	0.77;	30000;occ;	80;	0;	25635
9;	655.8;	24-JAN-2007	22:47:48;	Dark	;	39.5;	29;	Bet Car	;	1.67;	10200;occ;	79;	0;	25635
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11;	895.4;	24-JAN-2007	22:51:48;	Dark	;	38.5;	46;	Del Vel	;	1.95;	10600;occ;	77;	0;	25635
12;	1051.9;	24-JAN-2007	22:54:24;	Dark	;	39.0;	34;	Gam2Vel	;	1.79;	23000;occ;	78;	0;	25635
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16;	1498.9;	24-JAN-2007	23:01:51;	Dark	;	37.0;	179;	240mi2CMA	;	3.03;	24000;occ;	74;	0;	25635
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19;	2188.4;	24-JAN-2007	23:13:21;	Bright;	;	38.5;	44;	24Gam Gem	;	1.93;	11000;occ;	77;	0;	25635
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21;	2548.7;	24-JAN-2007	23:19:21;	Bright;	;	35.5;	107;	37The Aur	;	2.65;	11000;occ;	71;	0;	25635
22;	2676.8;	24-JAN-2007	23:21:29;	Bright;	;	35.5;	42;	34Bet Aur	;	1.90;	10200;occ;	71;	0;	25635
23;	3426.4;	24-JAN-2007	23:33:59;	Bright;	;	35.0;	49;	1Alp UMi	;	1.99;	6300;occ;	70;	0;	25635
24;	4085.8;	24-JAN-2007	23:44:58;	Bright;	;	36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	25635
25;	4289.4;	24-JAN-2007	23:48:22;	Bright;	;	33.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	67;	0;	25635
26;	4770.3;	24-JAN-2007	23:56:23;	Bright;	;	34.0;	59;	55Alp Oph	;	2.08;	8900;occ;	68;	0;	25635
27;	4896.8;	24-JAN-2007	23:58:29;	Bright;	;	34.0;	126;	60Bet Oph	;	2.77;	4250;occ;	68;	0;	25635
28;	5237.5;	25-JAN-2007	00:04:10;	Dark	;	44.5;	98;	13Zet Oph	;	2.57;	30000;occ;	89;	0;	25635

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3;	-1267.6;	24-JAN-2007	07:10:21;	Bright;	;	34.0;	59;	55Alp Oph	;	2.08;	8900;occ;	68;	0;	25625
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6;	-532.8;	24-JAN-2007	07:22:36;	Dark	;	49.0;	16;	21Alp Sco	;	1.02;	3000;occ;	98;	0;	25625
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10;	135.8;	24-JAN-2007	07:33:45;	Dark	;	44.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	89;	0;	25626
11;	223.7;	24-JAN-2007	07:35:13;	Dark	;	27.0;	77;	Eps Cen	;	2.30;	28000;occ;	54;	0;	25626
12;	312.3;	24-JAN-2007	07:36:41;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	25626
13;	408.8;	24-JAN-2007	07:38:18;	Dark	;	40.0;	12;	Alp1Cru	;	0.77;	30000;occ;	80;	0;	25626
14;	653.6;	24-JAN-2007	07:42:22;	Dark	;	38.0;	29;	Bet Car	;	1.67;	10200;occ;	76;	0;	25626
15;	783.9;	24-JAN-2007	07:44:33;	Dark	;	39.0;	71;	Iot Car	;	2.25;	7700;occ;	78;	0;	25626
16;	892.6;	24-JAN-2007	07:46:21;	Dark	;	39.0;	46;	Del Vel	;	1.95;	10600;occ;	78;	0;	25626
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18;	1176.0;	24-JAN-2007	07:51:05;	Dark	;	41.5;	70;	Zet Pup	;	2.25;	39000;occ;	83;	0;	25626
19;	1266.1;	24-JAN-2007	07:52:35;	Dark	;	39.5;	117;	Pi Pup	;	2.71;	3800;occ;	79;	0;	25626
20;	1414.4;	24-JAN-2007	07:55:03;	Dark	;	43.0;	23;	21Eps CMA	;	1.50;	26000;occ;	86;	0;	25626
21;	1497.5;	24-JAN-2007	07:56:26;	Dark	;	37.0;	179;	240mi2CMA	;	3.03;	24000;occ;	74;	0;	25626
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4;	2294.6;	24-JAN-2007	08:09:43;	Bright;	;	37.0;	151;	13Mu Gem	;	2.89;	3000;occ;	74;	0;	25626
5;	2548.0;	24-JAN-2007	08:13:57;	Bright;	;	35.0;	107;	37The Aur	;	2.65;	11000;occ;	70;	0;	25626
6;	2676.4;	24-JAN-2007	08:16:05;	Bright;	;	36.0;	42;	34Bet Aur	;	1.90;	10200;occ;	72;	0;	25626
7;	3426.7;	24-JAN-2007	08:28:36;	Bright;	;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	25626
8;	4085.8;	24-JAN-2007	08:39:35;	Bright;	;	36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	25626
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21; 1509.7; 29-JAN-2007 06:59:11; Dark ; 36.0; 179; 240mi2CMA ; 3.03; 24000;occ; 72; 0;25697  
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 23; 7106.0; 29-JAN-2007 10:13:03; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;25698  
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11; 2691.6; 31-JAN-2007 17:59:50; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;25732
12; 3427.9; 31-JAN-2007 18:12:07; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;25732
13; 4099.9; 31-JAN-2007 18:23:19; Bright; 38.0; 69; 33Gam Dra ; 2.23; 3800;occ; 76; 0;25732
14; 4304.1; 31-JAN-2007 18:26:43; Bright; 33.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 67; 0;25732
15; 4795.7; 31-JAN-2007 18:34:54; Bright; 55.0; 59; 55Alp Oph ; 2.08; 8900;occ; 110; 0;25732
16; 4923.7; 31-JAN-2007 18:37:02; Bright; 54.0; 126; 60Bet Oph ; 2.77; 4250;occ; 108; 0;25732
17; 5310.7; 31-JAN-2007 18:43:29; Dark ; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;25732
18; 5475.3; 31-JAN-2007 18:46:14; Dark ; 41.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 83; 0;25732
19; 5615.2; 31-JAN-2007 18:48:34; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;25732
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21; 5816.9; 31-JAN-2007 18:51:56; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;25732
22; 5910.5; 31-JAN-2007 18:53:29; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;25732
23; 6143.1; 31-JAN-2007 18:57:22; Dark ; 39.0; 43; Alp TrA ; 1.91; 4250;occ; 78; 0;25732
24; 6227.5; 31-JAN-2007 18:58:46; Dark ; 42.0; 4; Alp1Cen ; -0.01; 5800;occ; 84; 0;25732
25; 6378.0; 31-JAN-2007 19:01:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25732
26; 6503.1; 31-JAN-2007 19:03:22; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;25732
27; 6716.7; 31-JAN-2007 19:06:55; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;25732
28; 6857.7; 31-JAN-2007 19:09:16; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;25732
29; 6962.8; 31-JAN-2007 19:11:02; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;25732
30; 7114.6; 31-JAN-2007 19:13:33; Dark ; 21.0; 34; Gam2Vel ; 1.79; 23000;occ; 42; 0;25732
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4; 1433.1; 31-JAN-2007 19:19:28; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;25733
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6; 1645.0; 31-JAN-2007 19:23:00; Dark ; 42.5; 1; 9Alp CMA ; -1.44; 11000;occ; 85; 0;25733
7; 1993.0; 31-JAN-2007 19:28:48; Dark ; 51.0; 8; 10Alp CMI ; 0.40; 6500;occ; 102; 0;25733
8; 2198.5; 31-JAN-2007 19:32:13; Bright; 37.0; 44; 24Gam Gem ; 1.93; 11000;occ; 74; 0;25733
9; 2308.6; 31-JAN-2007 19:34:03; Bright; 37.0; 151; 13Mu Gem ; 2.89; 3000;occ; 74; 0;25733
10; 2566.4; 31-JAN-2007 19:38:21; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;25733

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12;	3427.8;	31-JAN-2007	19:52:43;	Bright;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	25733	
13;	4099.9;	31-JAN-2007	20:03:55;	Bright;	38.5;	69;	33Gam Dra	;	2.23;	3800;occ;	77;	0;	25733	
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18;	5475.4;	31-JAN-2007	20:26:50;	Dark	;	39.0;	167;	10Gam2Sgr	;	2.98;	4500;occ;	78;	0;	25733
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26;	6503.5;	31-JAN-2007	20:43:58;	Dark	;	41.5;	12;	Alp1Cru	;	0.77;	30000;occ;	83;	0;	25733
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