

# GOMOS Daily Report 21-JAN-2008

## Level 0 and Level 1 products

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

Item	Value
Time of report generation	28JAN2008 11:08:49
Data source version	GOMOS/5.00
Start time of products	21-01-2008 (21JAN2008 00:00:00)
Stop time of products	22-01-2008 (22JAN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

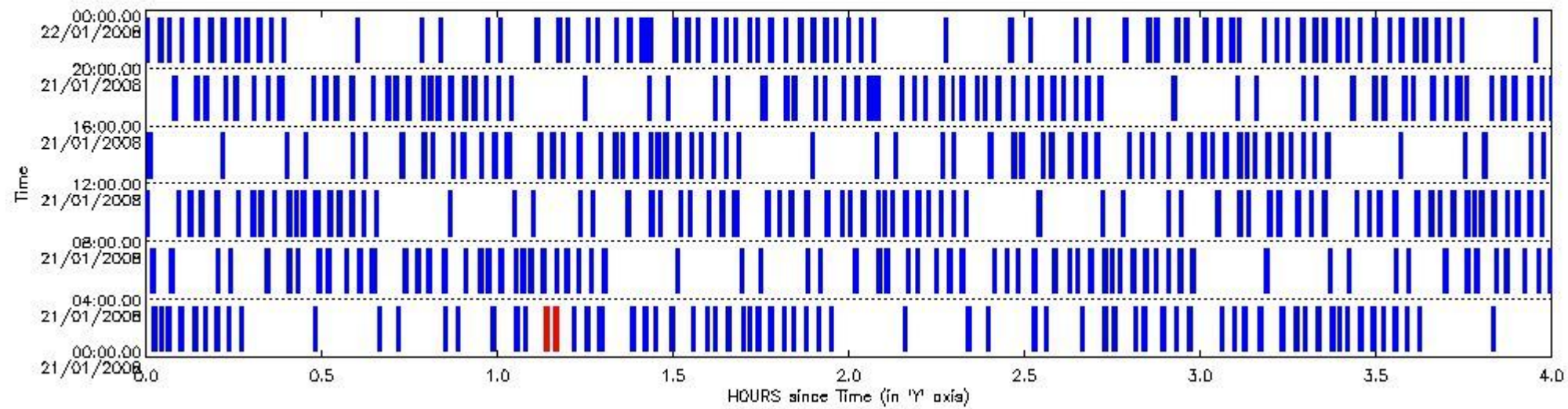
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

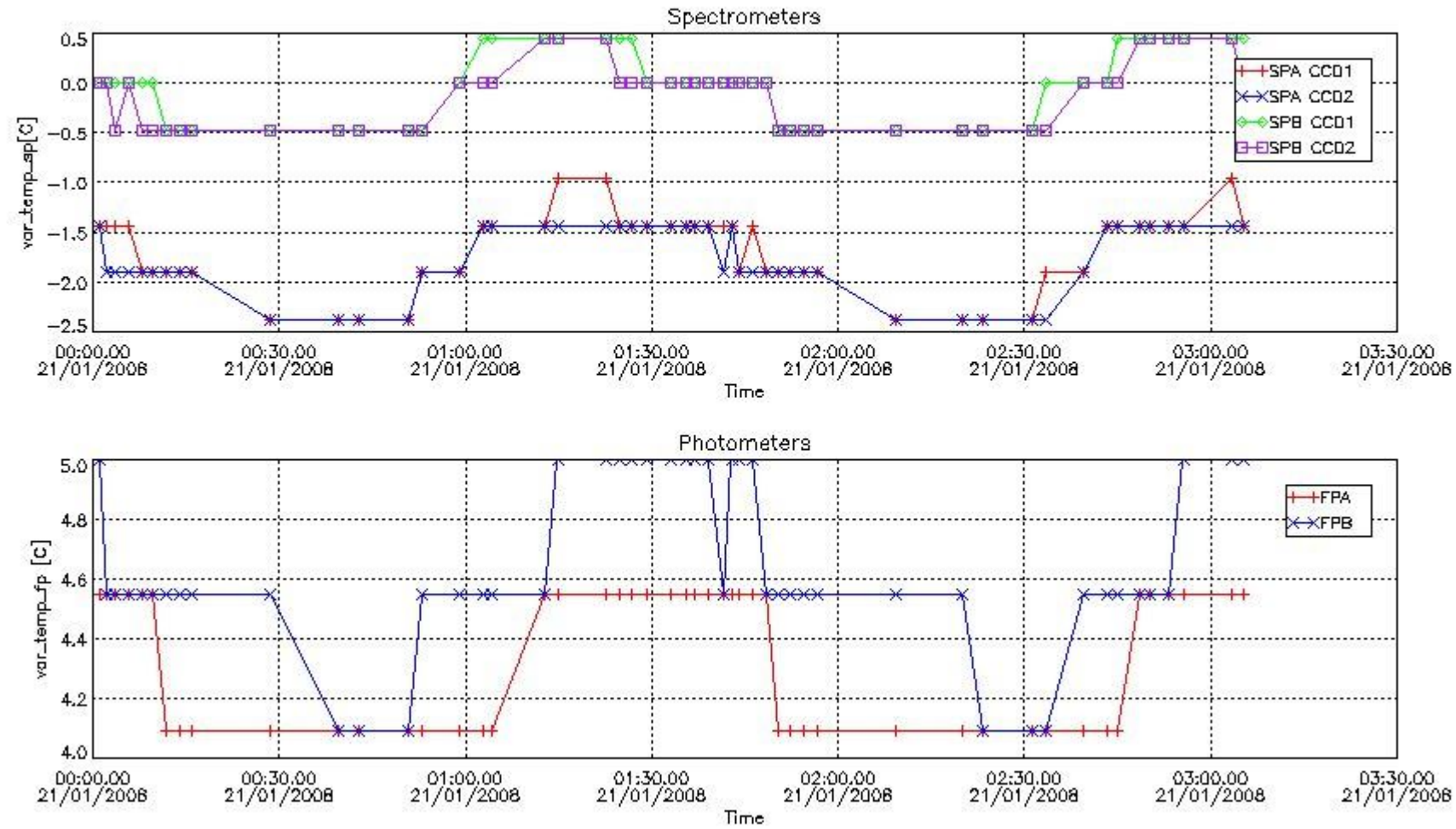
UTC start time	Star name	Star ID	Orbit
21-JAN-2008 01:07:54	AlpAra	147	30803
21-JAN-2008 01:09:29	BetAra	141	30803

### 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_1PNPDE20080121_000100_000000392065_00188_30803_5264.N1	21-JAN-2008 00:01:00	Straylight	39.000	56	53Kap Ori	2.0650	30000.	78	30803	No
2	GOM_TRA_1PNPDE20080121_000212_000000392065_00188_30803_5265.N1	21-JAN-2008 00:02:12	Twilight_stray	38.500	125	44Iot Ori	2.7700	30000.	77	30803	No
3	GOM_TRA_1PNPDE20080121_000329_000000432065_00188_30803_5266.N1	21-JAN-2008 00:03:29	Twilight_stray	42.500	30	46Eps Ori	1.6940	30000.	85	30803	No
4	GOM_TRA_1PNPDE20080121_000538_000000472065_00188_30803_5267.N1	21-JAN-2008 00:05:38	Twilight_stray	46.500	14	58Alp Ori	0.87000	3000.0	93	30803	No
5	GOM_TRA_1PNPDE20080121_000756_000000462065_00188_30803_5268.N1	21-JAN-2008 00:07:56	Bright	46.000	44	24Gam Gem	1.9280	11000.	92	30803	No
6	GOM_TRA_1PNPDE20080121_000940_000000402065_00188_30803_5269.N1	21-JAN-2008 00:09:40	Bright	39.500	151	13Mu Gem	2.8900	3000.0	79	30803	No
7	GOM_TRA_1PNPDE20080121_001147_000000352065_00188_30803_5270.N1	21-JAN-2008 00:11:47	Bright	35.000	28	12Bet Tau	1.6500	15200.	70	30803	No
8	GOM_TRA_1PNPDE20080121_001352_000000352065_00188_30803_5271.N1	21-JAN-2008 00:13:52	Bright	34.500	107	37The Aur	2.6490	11000.	69	30803	No
9	GOM_TRA_1PNPDE20080121_001601_000000352065_00188_30803_5272.N1	21-JAN-2008 00:16:01	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	30803	No

10	GOM_TRA_1PNPDE20080121_002835_000000332065_00188_30803_5273.N1	21-JAN-2008 00:28:35	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	30803	No
11	GOM_TRA_1PNPDE20080121_003931_000000362065_00188_30803_5274.N1	21-JAN-2008 00:39:31	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	30803	No
12	GOM_TRA_1PNPDE20080121_004247_000000352065_00188_30803_5275.N1	21-JAN-2008 00:42:47	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	30803	No
13	GOM_TRA_1PNPDE20080121_005045_000000342065_00188_30803_5276.N1	21-JAN-2008 00:50:45	Bright	33.500	59	55Alp Oph	2.0800	8900.0	67	30803	No
14	GOM_TRA_1PNPDE20080121_005252_000000332065_00188_30803_5277.N1	21-JAN-2008 00:52:52	Bright	33.000	126	60Bet Oph	2.7700	4250.0	66	30803	No
15	GOM_TRA_1PNPDE20080121_005857_000000372065_00188_30803_5278.N1	21-JAN-2008 00:58:57	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	30803	No
16	GOM_TRA_1PNPDE20080121_010247_000000512065_00188_30803_5393.N1	21-JAN-2008 01:02:47	Twilight	50.500	16	21Alp Sco	1.0200	3000.0	101	30803	No
17	GOM_TRA_1PNPDE20080121_010420_000000432065_00188_30803_5394.N1	21-JAN-2008 01:04:20	Twilight	43.000	75	26Eps Sco	2.2910	4250.0	86	30803	No
18	GOM_TRA_1PNPDE20080121_011242_000000362065_00189_30804_5395.N1	21-JAN-2008 01:12:42	Dark	36.000	134	Bet TrA	2.8100	6600.0	72	30804	No
19	GOM_TRA_1PNPDE20080121_011458_000000392065_00189_30804_5396.N1	21-JAN-2008 01:14:58	Dark	39.000	10	Bet Cen	0.61000	28000.	78	30804	No
20	GOM_TRA_1PNPDE20080121_012244_000000422065_00189_30804_5397.N1	21-JAN-2008 01:22:44	Dark	42.000	29	Bet Car	1.6720	10200.	84	30804	No
21	GOM_TRA_1PNPDE20080121_012448_000000442065_00189_30804_5398.N1	21-JAN-2008 01:24:48	Dark	43.500	71	lot Car	2.2460	7700.0	87	30804	No
22	GOM_TRA_1PNPDE20080121_012639_000000402065_00189_30804_5399.N1	21-JAN-2008 01:26:39	Dark	40.000	46	Del Vel	1.9540	10600.	80	30804	No
23	GOM_TRA_1PNPDE20080121_012920_000000442065_00189_30804_5400.N1	21-JAN-2008 01:29:20	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	30804	No
24	GOM_TRA_1PNPDE20080121_013259_000000442065_00189_30804_5401.N1	21-JAN-2008 01:32:59	Straylight	44.000	117	Pi Pup	2.7060	3800.0	88	30804	No
25	GOM_TRA_1PNPDE20080121_013529_000000412065_00189_30804_5402.N1	21-JAN-2008 01:35:29	Straylight	40.500	23	21Eps CMa	1.5020	26000.	81	30804	No
26	GOM_TRA_1PNPDE20080121_013653_000000392065_00189_30804_5403.N1	21-JAN-2008 01:36:53	Straylight	38.500	179	24Omi2CMa	3.0320	24000.	77	30804	No
27	GOM_TRA_1PNPDE20080121_013904_000000452065_00189_30804_5404.N1	21-JAN-2008 01:39:04	Straylight	44.500	1	9Alp CMa	-1.4400	11000.	89	30804	No
28	GOM_TRA_1PNPDE20080121_014136_000000412065_00189_30804_5405.N1	21-JAN-2008 01:41:36	Straylight	40.500	56	53Kap Ori	2.0650	30000.	81	30804	No
29	GOM_TRA_1PNPDE20080121_014248_000000382065_00189_30804_5406.N1	21-JAN-2008 01:42:48	Twi_and_stray	37.500	125	44lot Ori	2.7700	30000.	75	30804	No
30	GOM_TRA_1PNPDE20080121_014405_000000442065_00189_30804_5407.N1	21-JAN-2008 01:44:05	Twi_and_stray	43.500	30	46Eps Ori	1.6940	30000.	87	30804	No
31	GOM_TRA_1PNPDE20080121_014614_000000462065_00189_30804_5408.N1	21-JAN-2008 01:46:14	Twi_and_stray	46.000	14	58Alp Ori	0.87000	3000.0	92	30804	No
32	GOM_TRA_1PNPDE20080121_014831_000000452065_00189_30804_5409.N1	21-JAN-2008 01:48:31	Bright	44.500	44	24Gam Gem	1.9280	11000.	89	30804	No
33	GOM_TRA_1PNPDE20080121_015016_000000402065_00189_30804_5410.N1	21-JAN-2008 01:50:16	Bright	39.500	151	13Mu Gem	2.8900	3000.0	79	30804	No
34	GOM_TRA_1PNPDE20080121_015223_000000382065_00189_30804_5411.N1	21-JAN-2008 01:52:23	Bright	37.500	28	12Bet Tau	1.6500	15200.	75	30804	No
35	GOM_TRA_1PNPDE20080121_015428_000000352065_00189_30804_5412.N1	21-JAN-2008 01:54:28	Bright	34.500	107	37The Aur	2.6490	11000.	69	30804	No
36	GOM_TRA_1PNPDE20080121_015637_000000342065_00189_30804_5413.N1	21-JAN-2008 01:56:37	Bright	34.000	42	34Bet Aur	1.9000	10200.	68	30804	No
37	GOM_TRA_1PNPDE20080121_020911_000000332065_00189_30804_5414.N1	21-JAN-2008 02:09:11	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	30804	No
38	GOM_TRA_1PNPDE20080121_022007_000000382065_00189_30804_5559.N1	21-JAN-2008 02:20:07	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	30804	No
39	GOM_TRA_1PNPDE20080121_022323_000000332065_00189_30804_5560.N1	21-JAN-2008 02:23:23	Bright	32.500	5	3Alp Lyr	0.033000	11000.	65	30804	No
40	GOM_TRA_1PNPDE20080121_023122_000000342065_00189_30804_5561.N1	21-JAN-2008 02:31:22	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	30804	No
41	GOM_TRA_1PNPDE20080121_023328_000000342065_00189_30804_5562.N1	21-JAN-2008 02:33:28	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	30804	No
42	GOM_TRA_1PNPDE20080121_023933_000000372065_00189_30804_5563.N1	21-JAN-2008 02:39:33	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	30804	No
43	GOM_TRA_1PNPDE20080121_024323_000000492065_00189_30804_5564.N1	21-JAN-2008 02:43:23	Twilight	49.000	16	21Alp Sco	1.0200	3000.0	98	30804	No
44	GOM_TRA_1PNPDE20080121_024456_000000452065_00189_30804_5565.N1	21-JAN-2008 02:44:56	Twilight	45.000	75	26Eps Sco	2.2910	4250.0	90	30804	No
45	GOM_TRA_1PNPDE20080121_024831_000000372065_00189_30804_5566.N1	21-JAN-2008 02:48:31	Dark	37.000	147	Alp Ara	2.8770	26000.	74	30804	No
46	GOM_TRA_1PNPDE20080121_025007_000000422065_00189_30804_5567.N1	21-JAN-2008 02:50:07	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	30804	No
47	GOM_TRA_1PNPDE20080121_025318_000000372065_00190_30805_5568.N1	21-JAN-2008 02:53:18	Dark	37.000	134	Bet TrA	2.8100	6600.0	74	30805	No
48	GOM_TRA_1PNPDE20080121_025534_000000412065_00190_30805_5569.N1	21-JAN-2008 02:55:34	Dark	41.000	10	Bet Cen	0.61000	28000.	82	30805	No
49	GOM_TRA_1PNPDE20080121_030320_000000392065_00190_30805_5570.N1	21-JAN-2008 03:03:20	Dark	38.500	29	Bet Car	1.6720	10200.	77	30805	No
50	GOM_TRA_1PNPDE20080121_030525_000000402065_00190_30805_5571.N1	21-JAN-2008 03:05:25	Dark	39.500	71	lot Car	2.2460	7700.0	79	30805	No

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



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

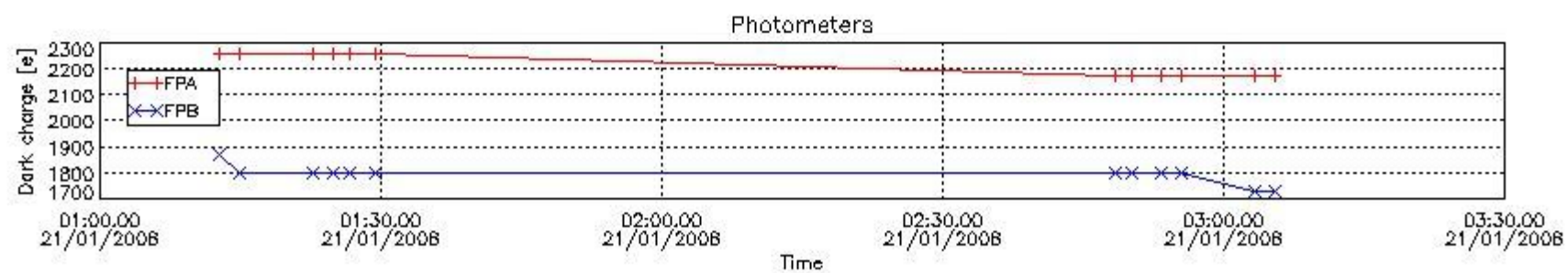
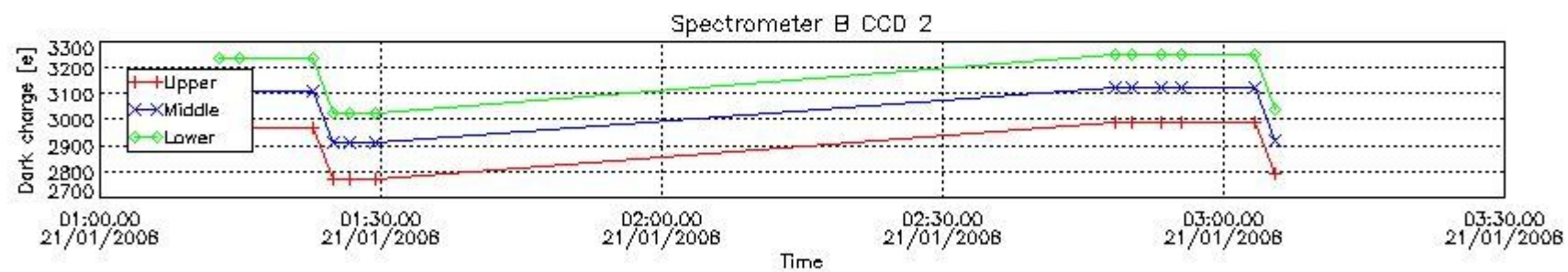
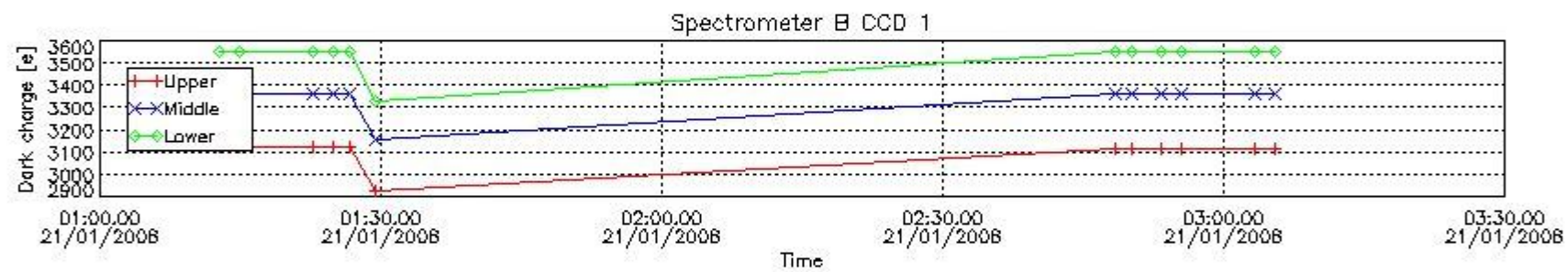
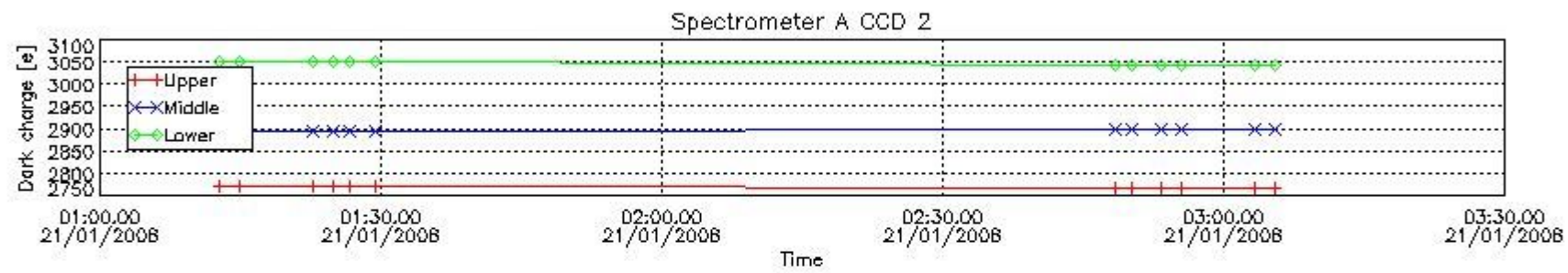
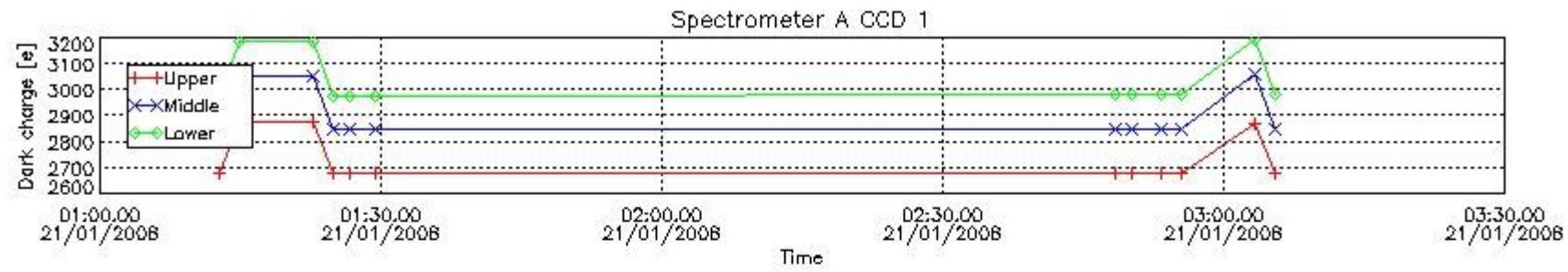
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





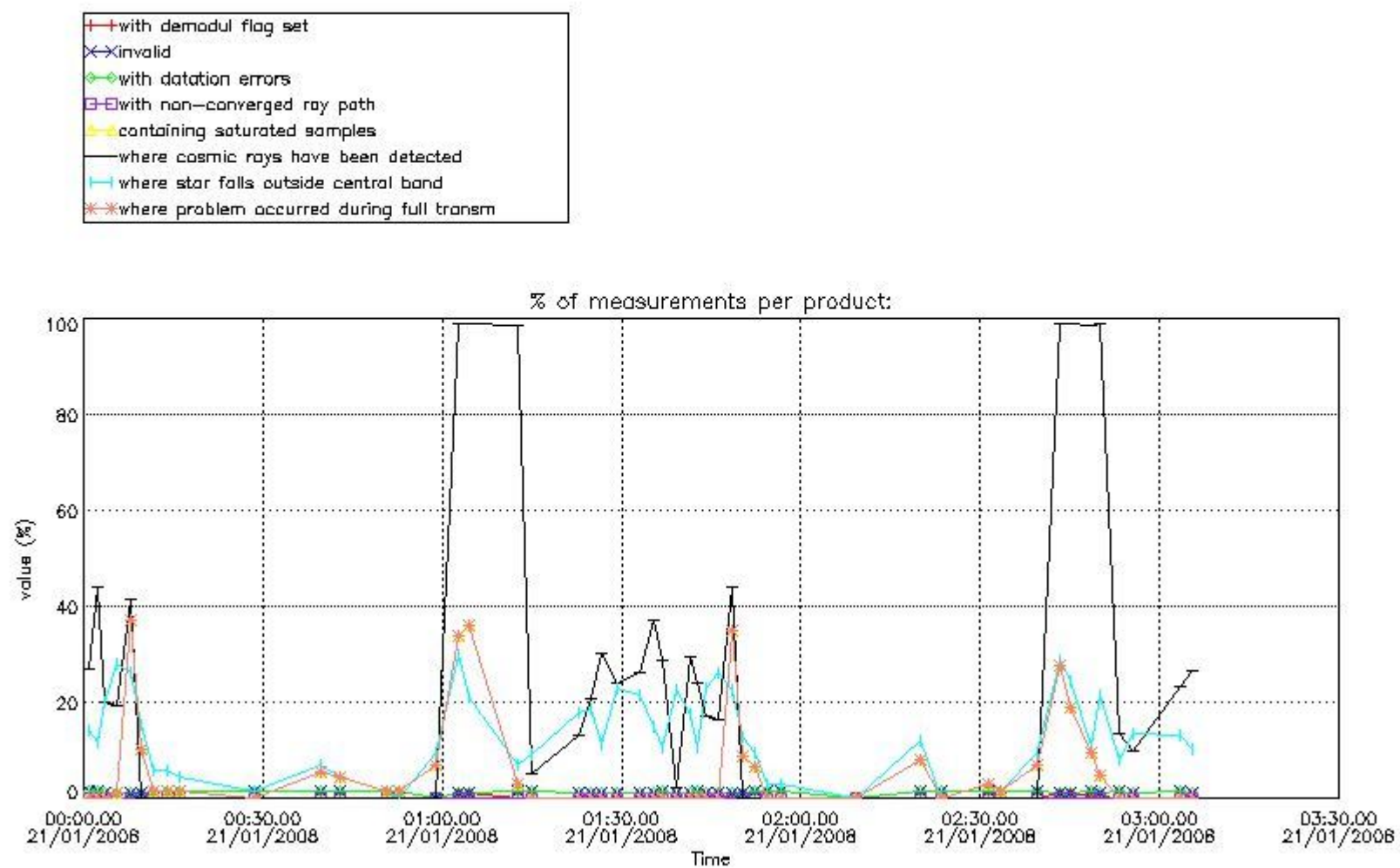
## 5. Demodulation flag and quality information monitoring

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.

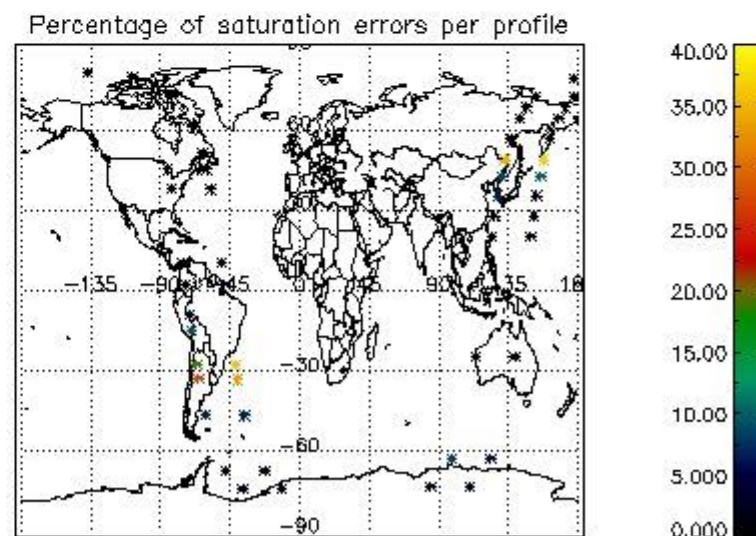
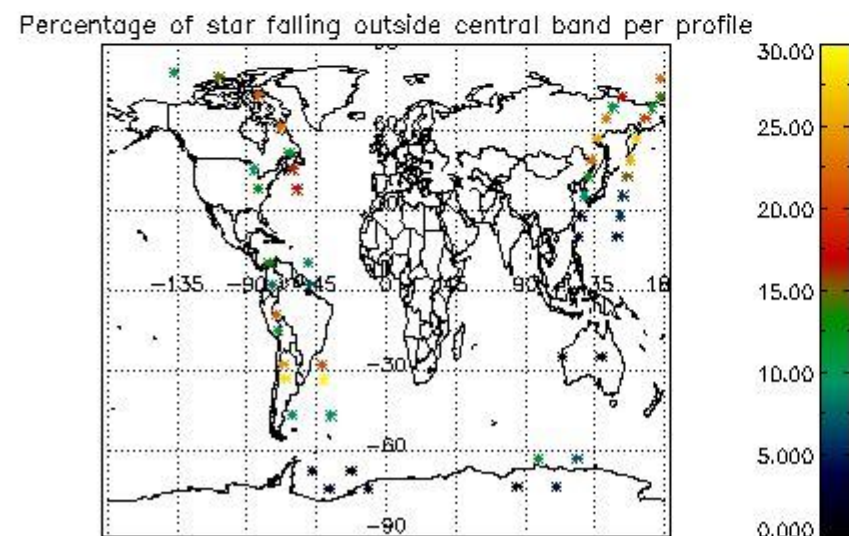
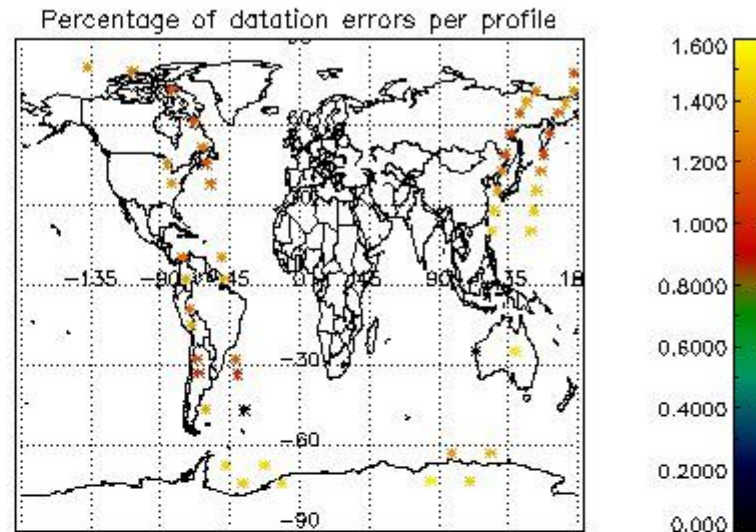
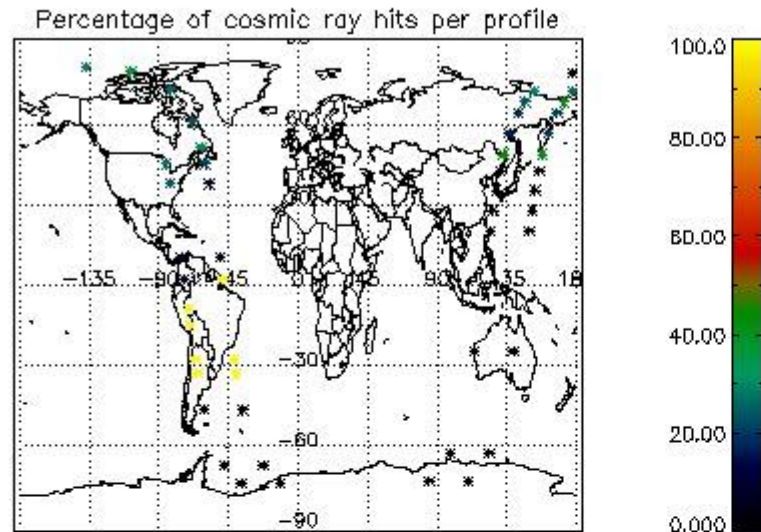
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.0000 %
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)

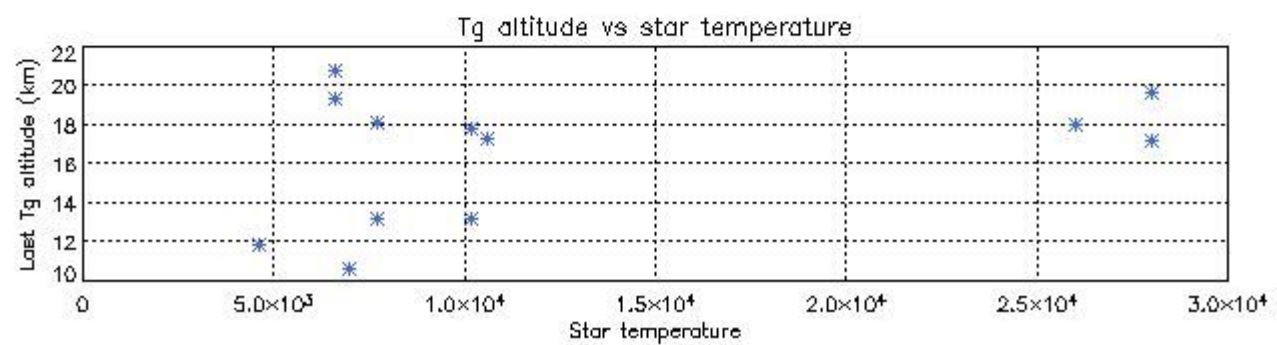
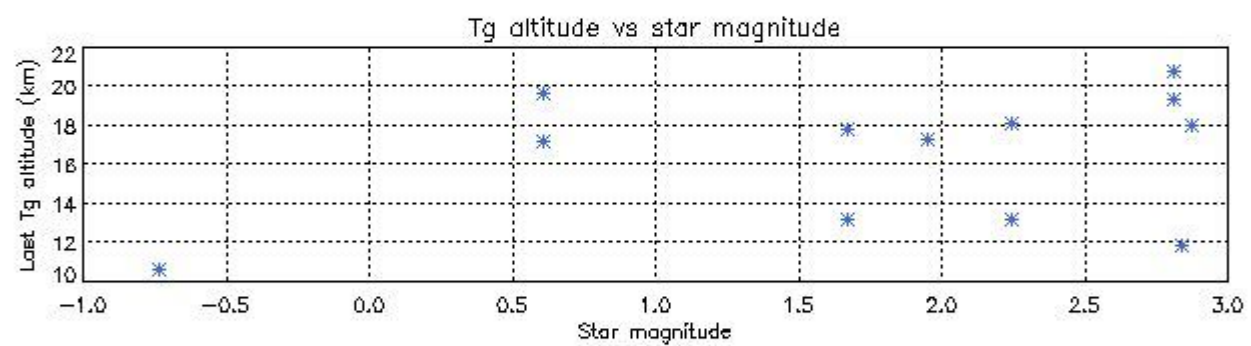
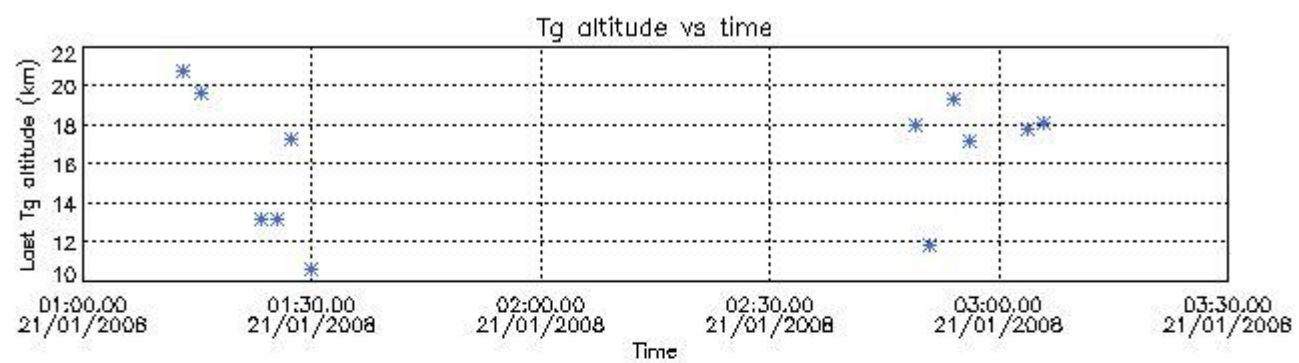
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.437	20.870	8.7155
St. deviation:	3.3278	5.2845	2.4118
Maximum:	20.803	28.388	11.569
Minimum:	10.654	8.9772	6.2510
Number of data:	12.000	22.000	4.0000

### 6.2 Plot for DARK limb products



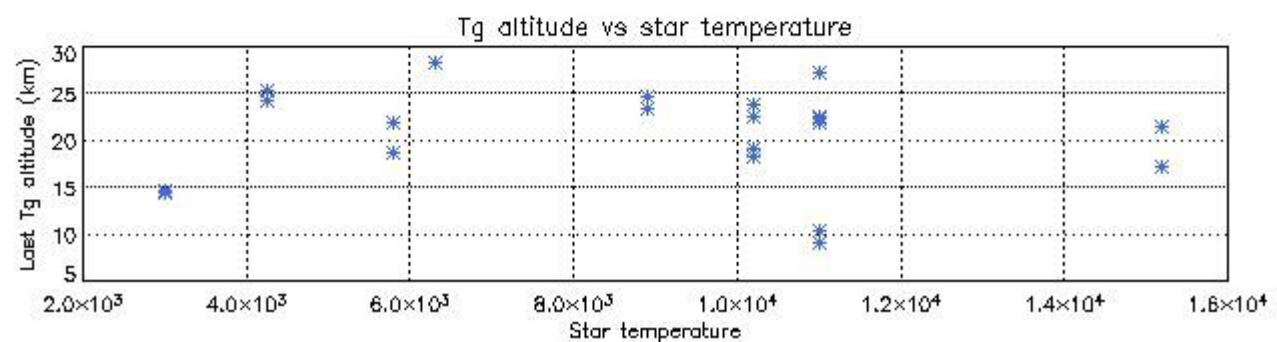
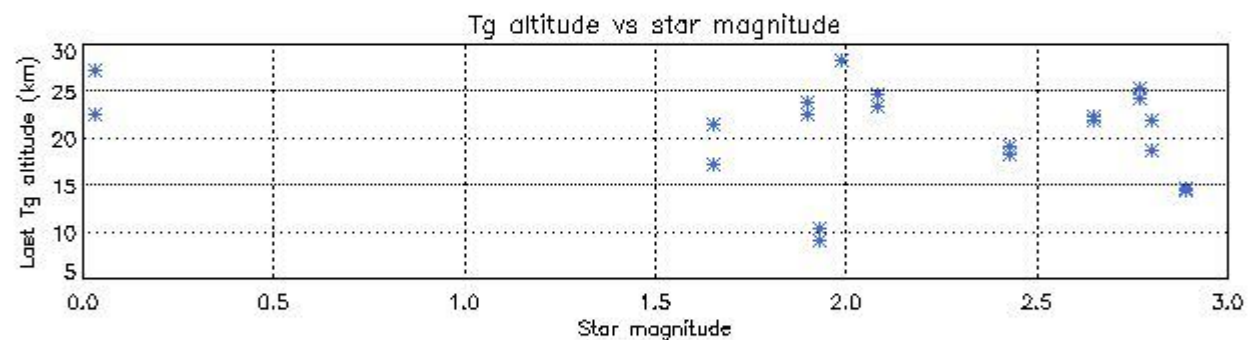
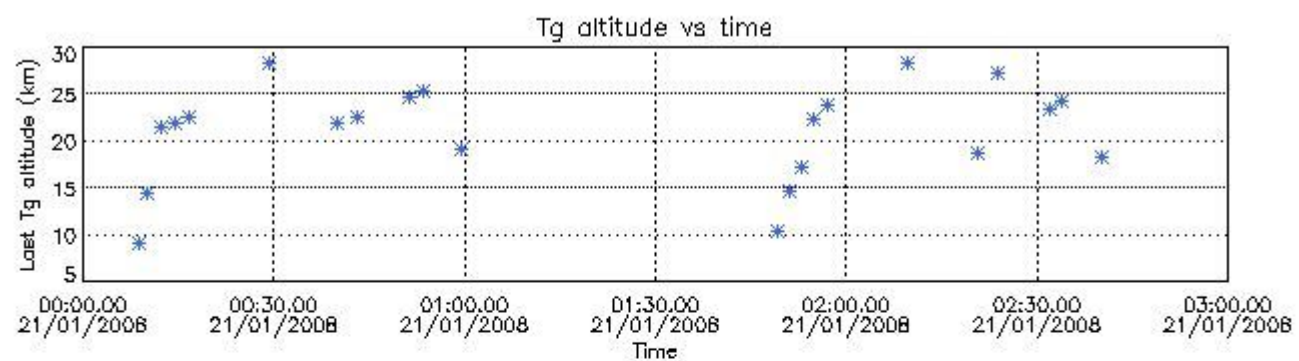
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

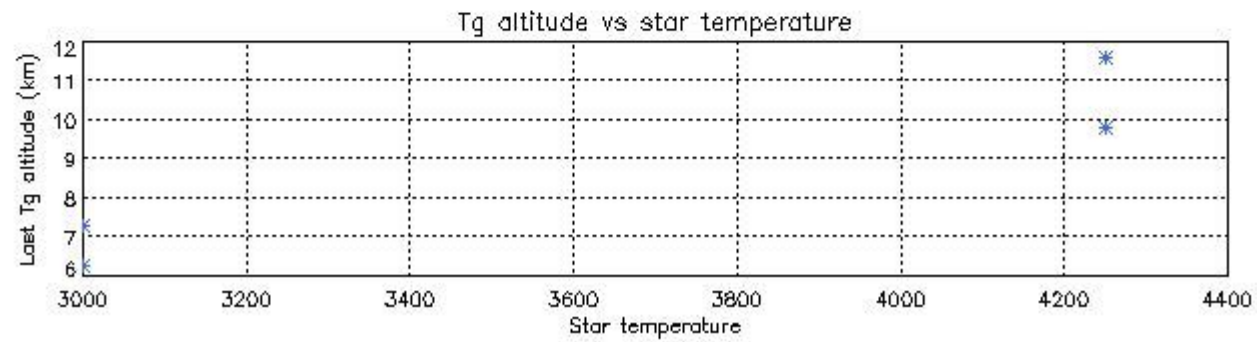
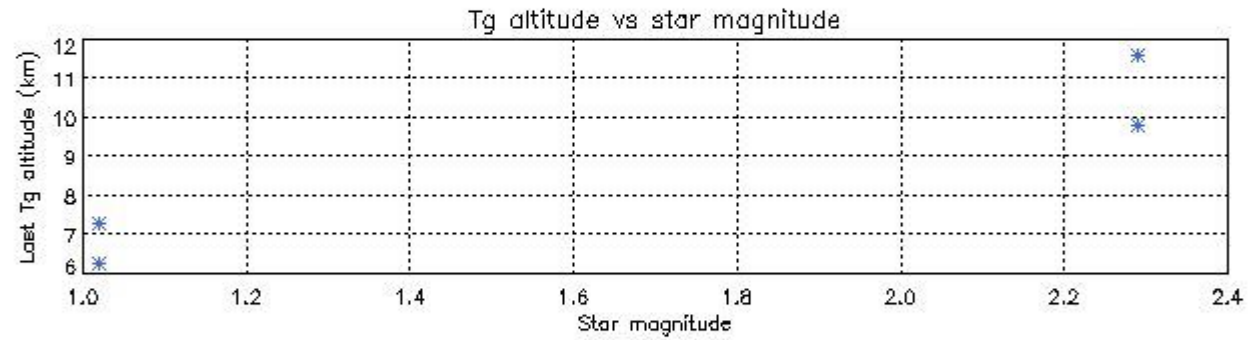
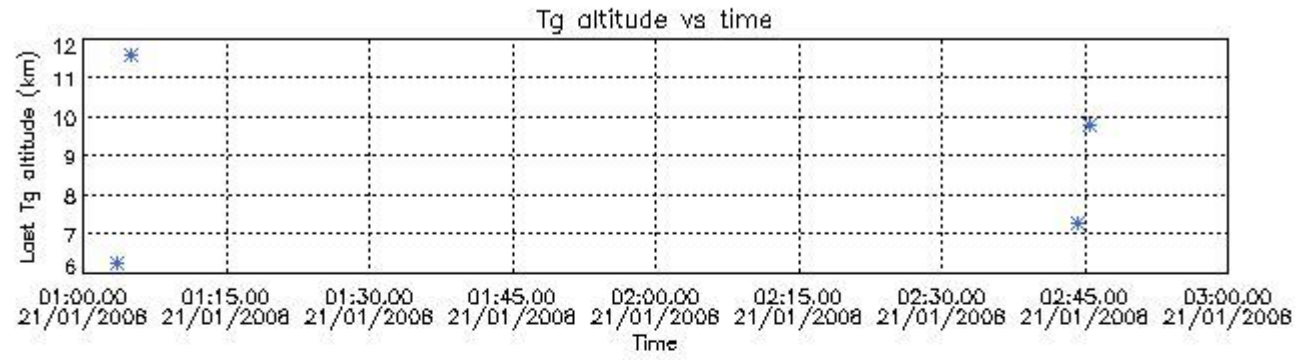


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

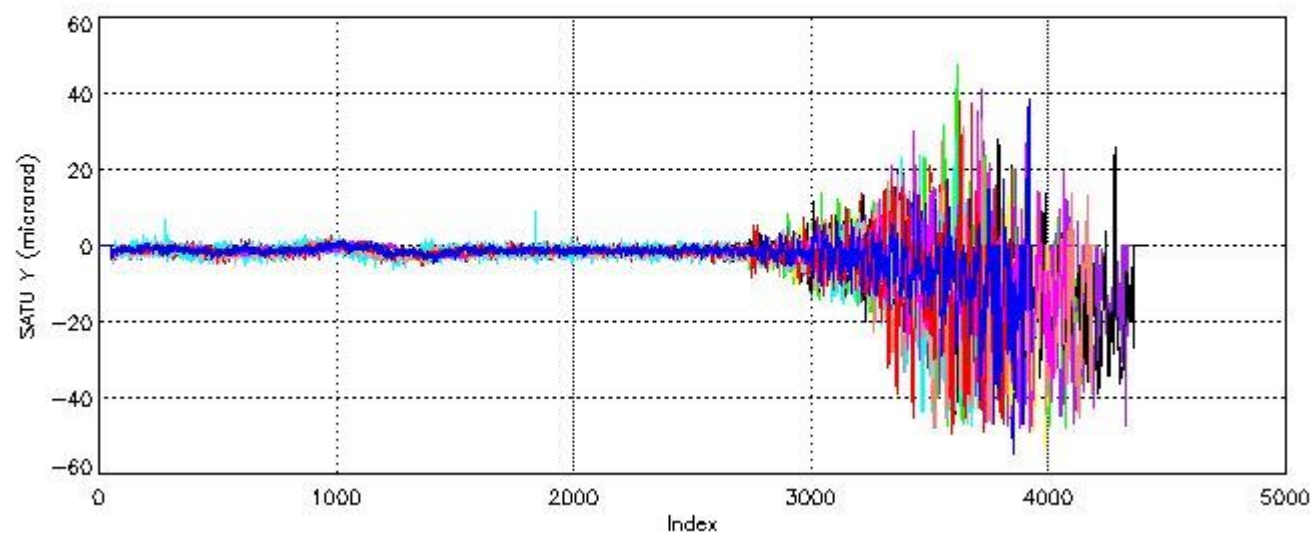
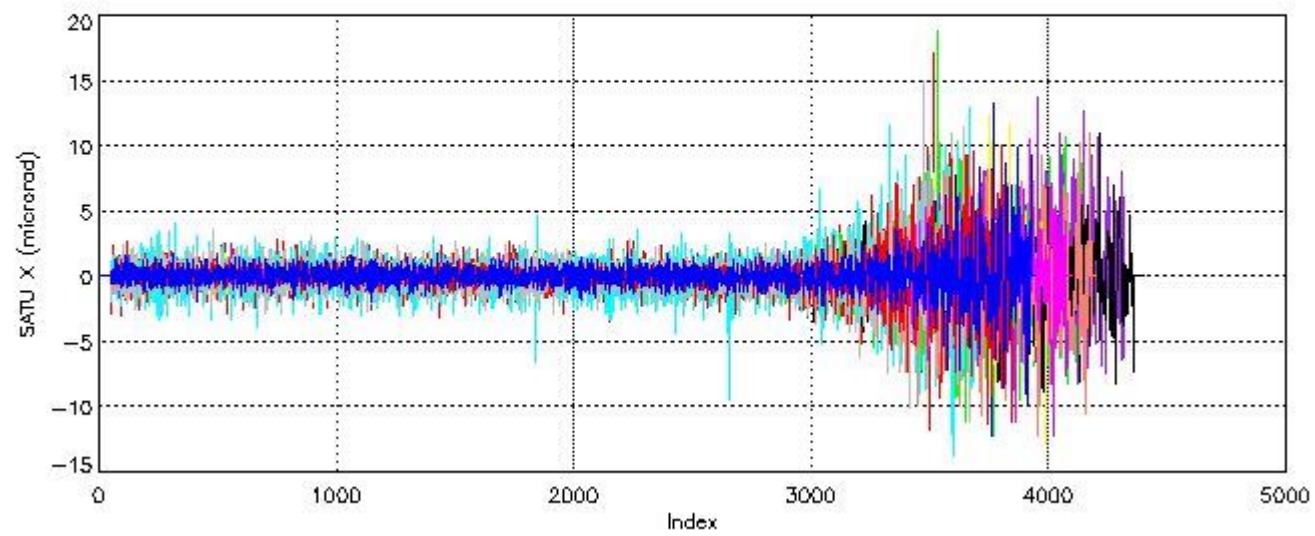


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.025224	-1.3404	0.013825	-1.3384
St. deviation:	0.52488	0.78138	0.63964	0.99775
Maximum:	4.0000	7.1000	4.8000	2.5000
Minimum:	-4.0000	-5.4000	-3.9000	-6.4000



Number of data:	10350.	10350.	17850.	17850.
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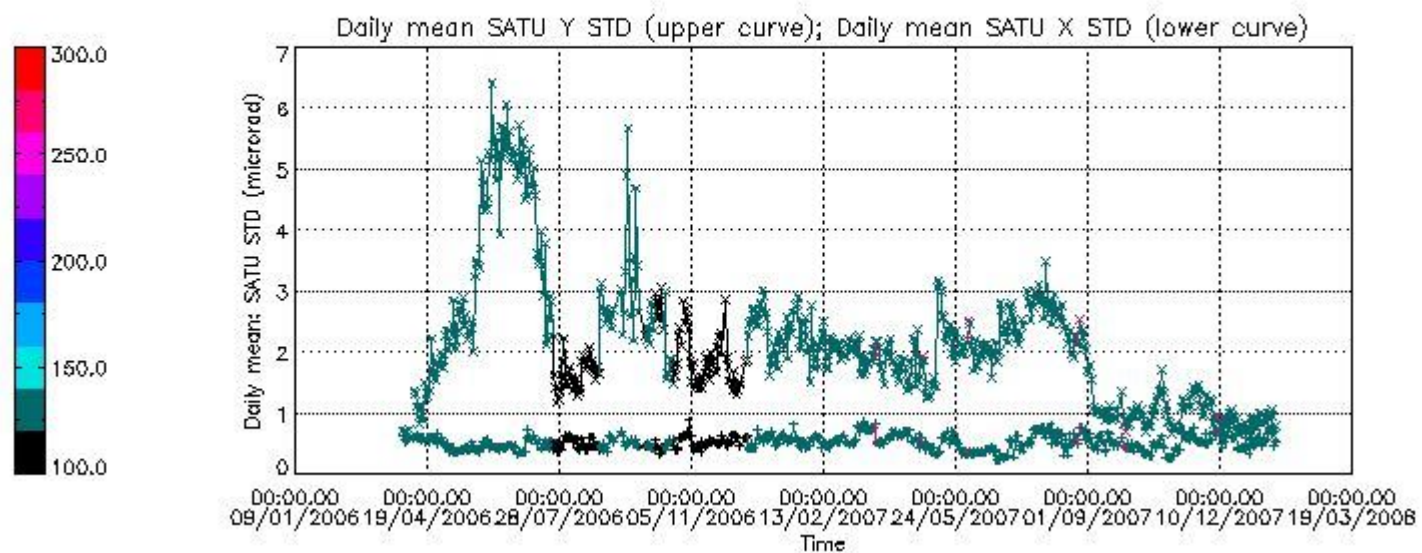
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

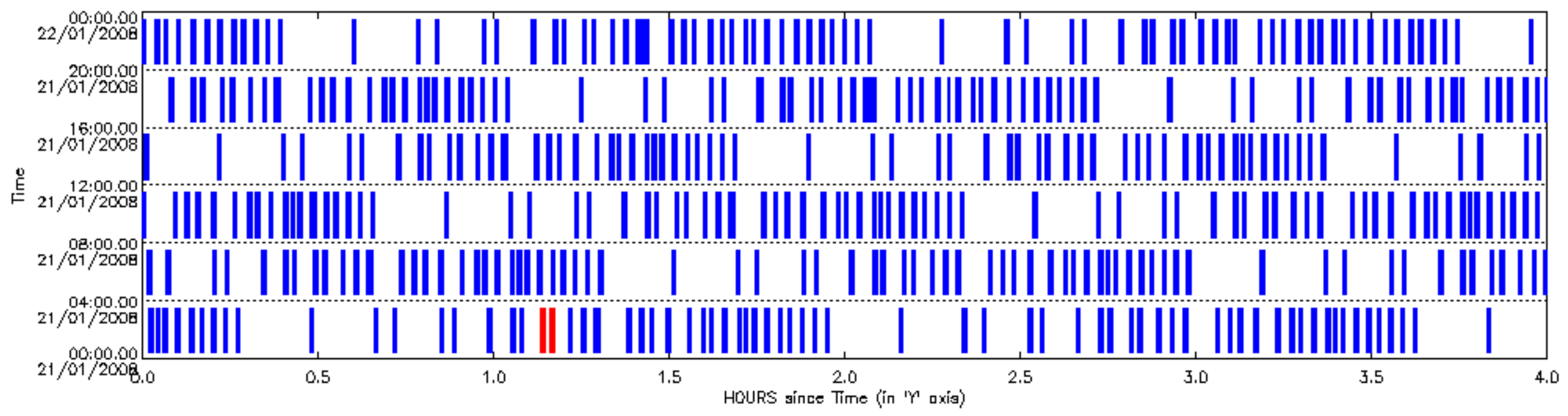
Lower curve: STD of SATU X axis

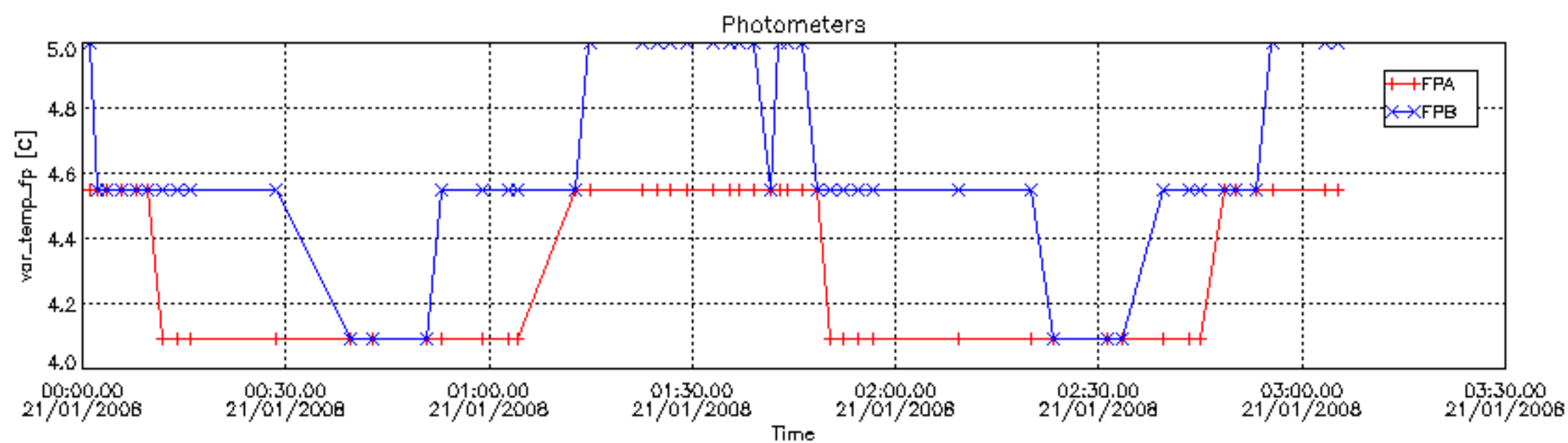
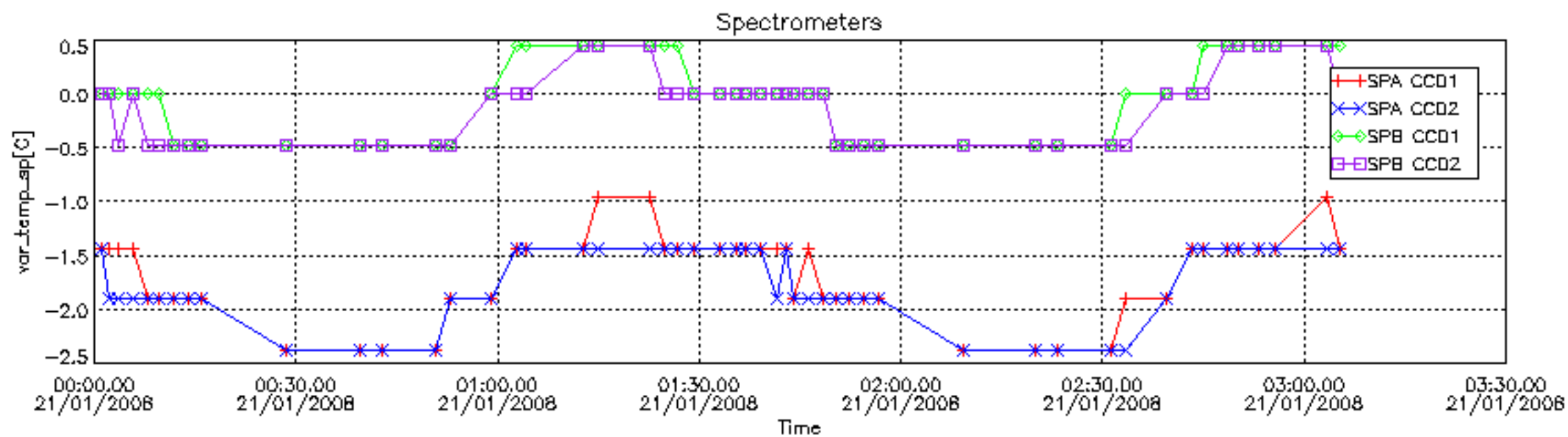


### 8. Auxiliary Data Files used for the production reported in section 2.4

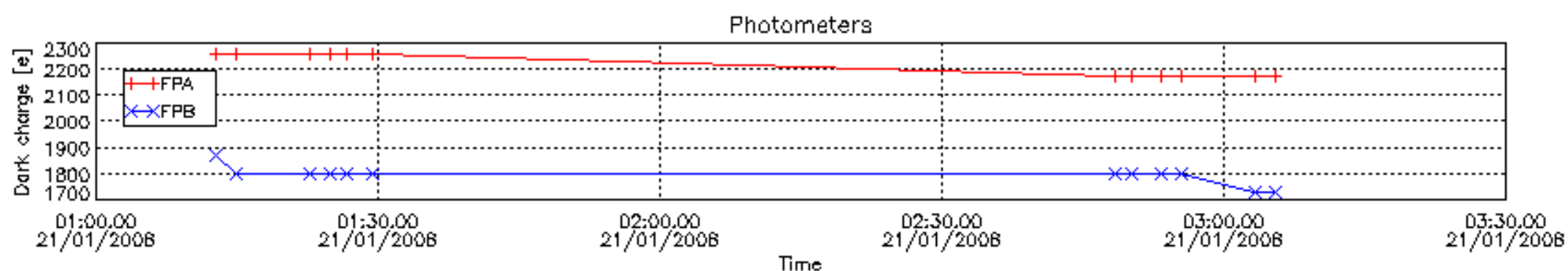
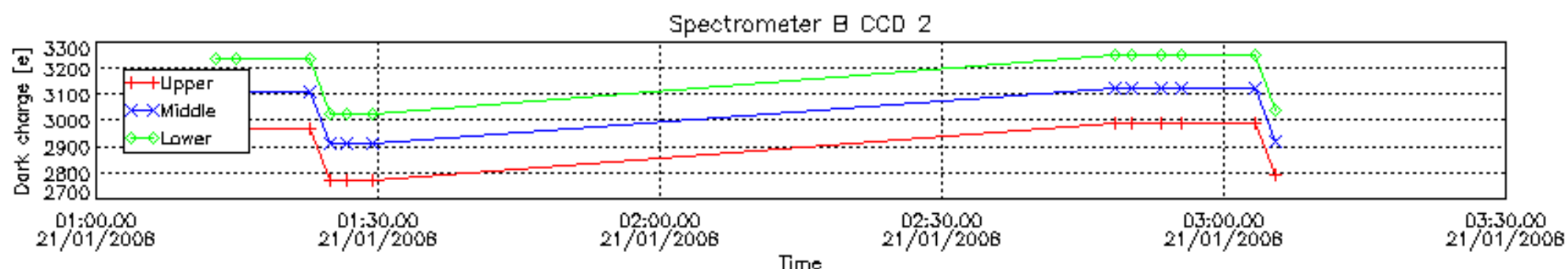
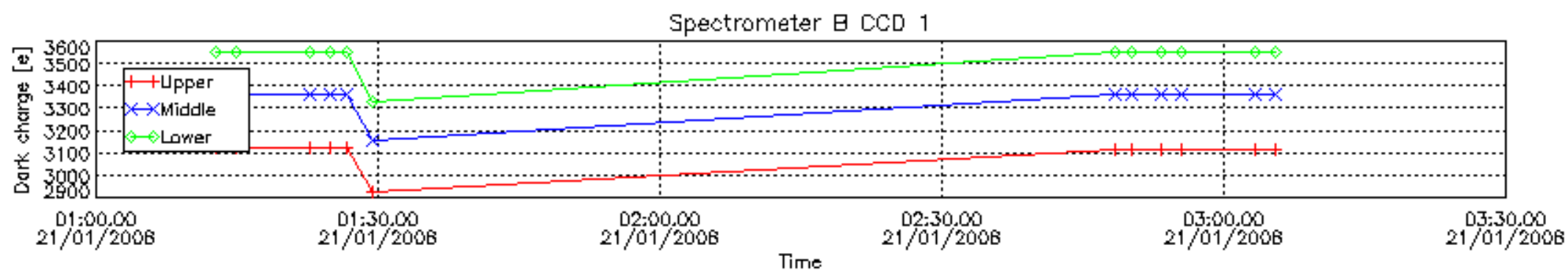
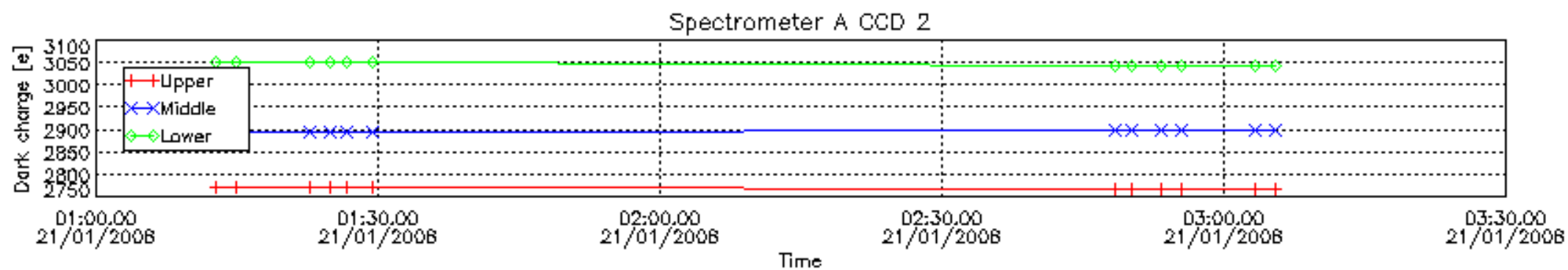
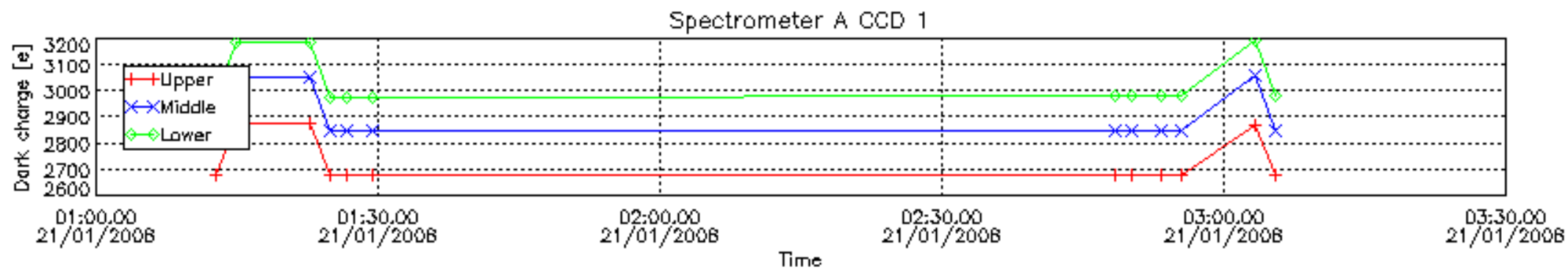
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

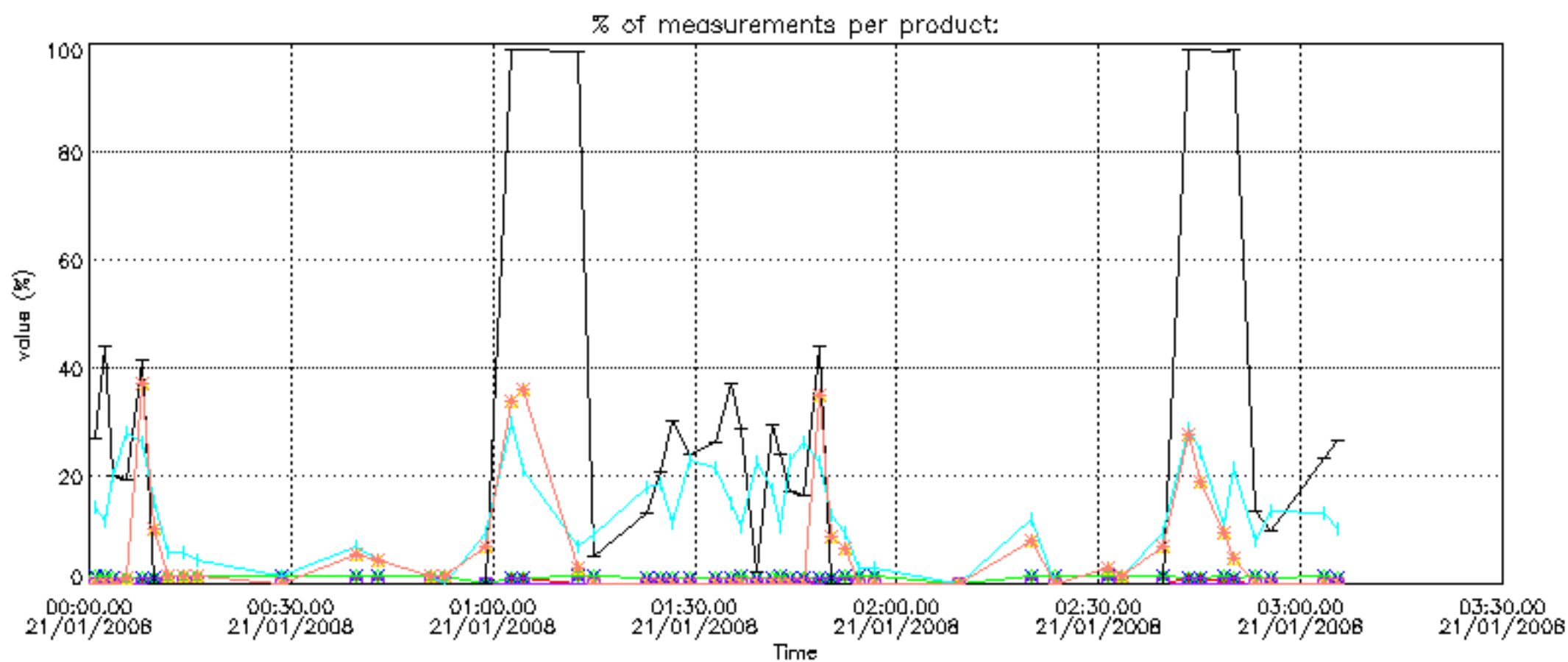
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	21-JAN-2008 00:01:00
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080118_162059_20080116_000000_20100101_000000	1	21-JAN-2008 00:01:00
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	21-JAN-2008 00:01:00
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-JAN-2008 00:01:00
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	21-JAN-2008 00:01:00
ECMWF_FILE	AUX_ECF_AXNECM20080120_073114_20080120_210000_20080121_090000	1	21-JAN-2008 00:01:00
OPTIONAL_ECMWF_FILE	MISSING	1	21-JAN-2008 00:01:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080120_213651_000057382065_00186_30801_4984.N1	1	21-JAN-2008 00:01:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080120_231748_000057382065_00187_30802_4985.N1	16	21-JAN-2008 01:02:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080121_005845_000041442065_00188_30803_4986.N1	38	21-JAN-2008 02:20:07



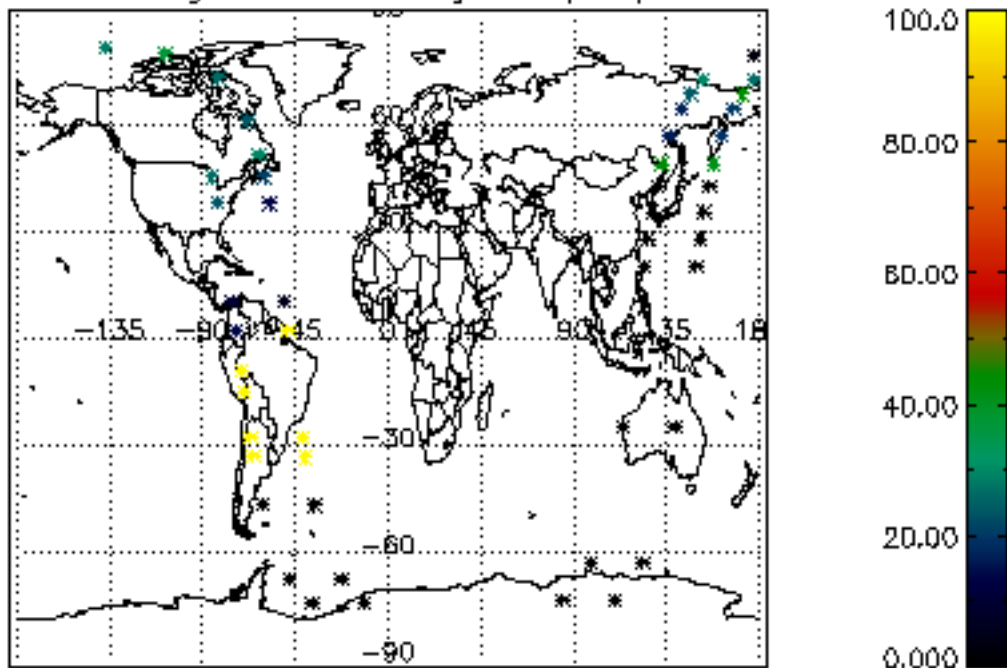




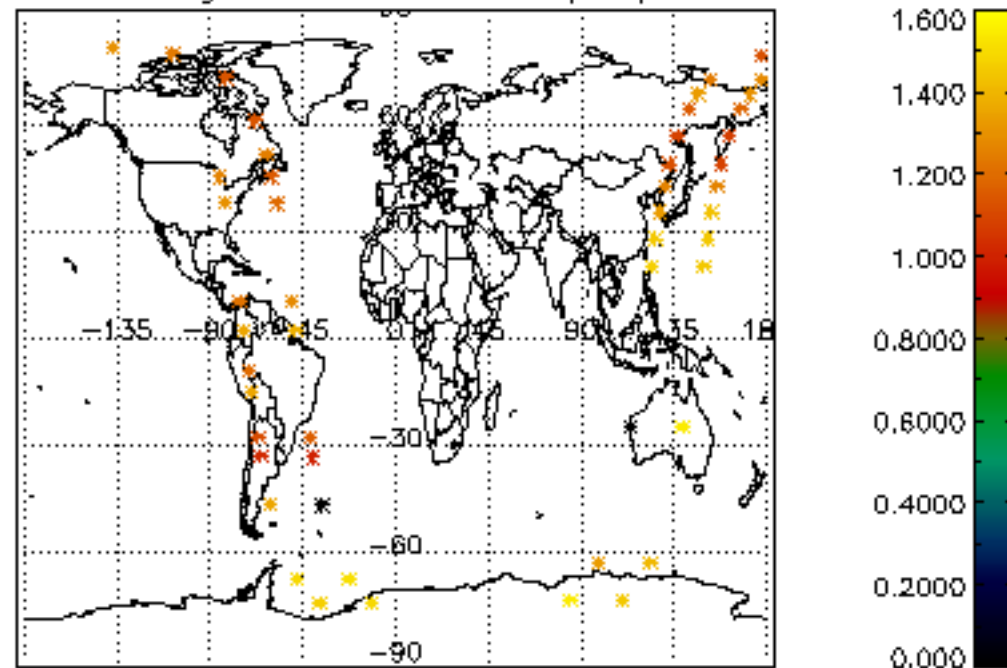




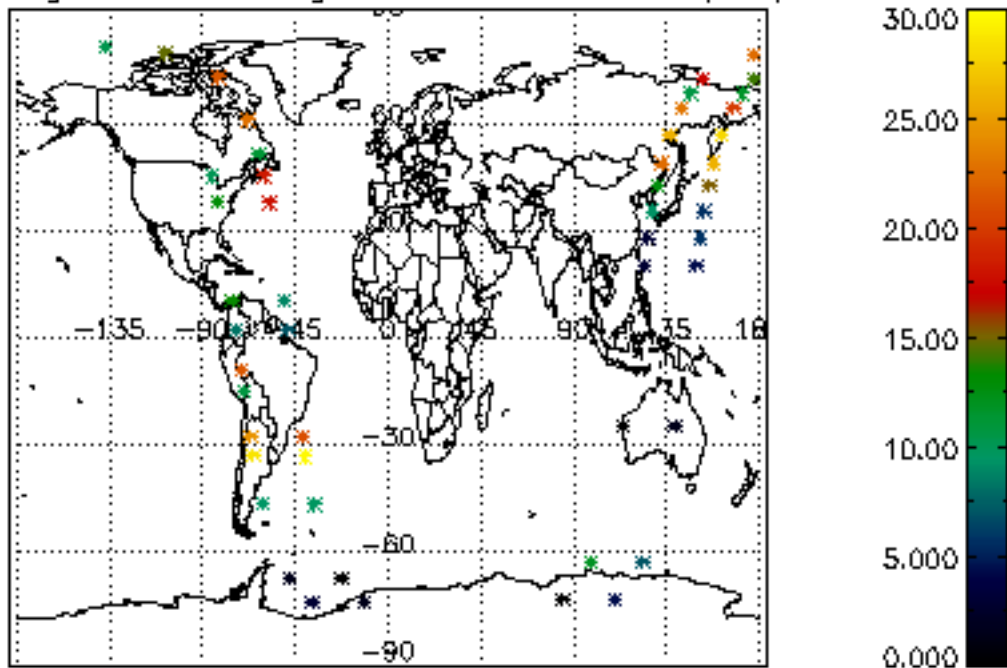
Percentage of cosmic ray hits per profile



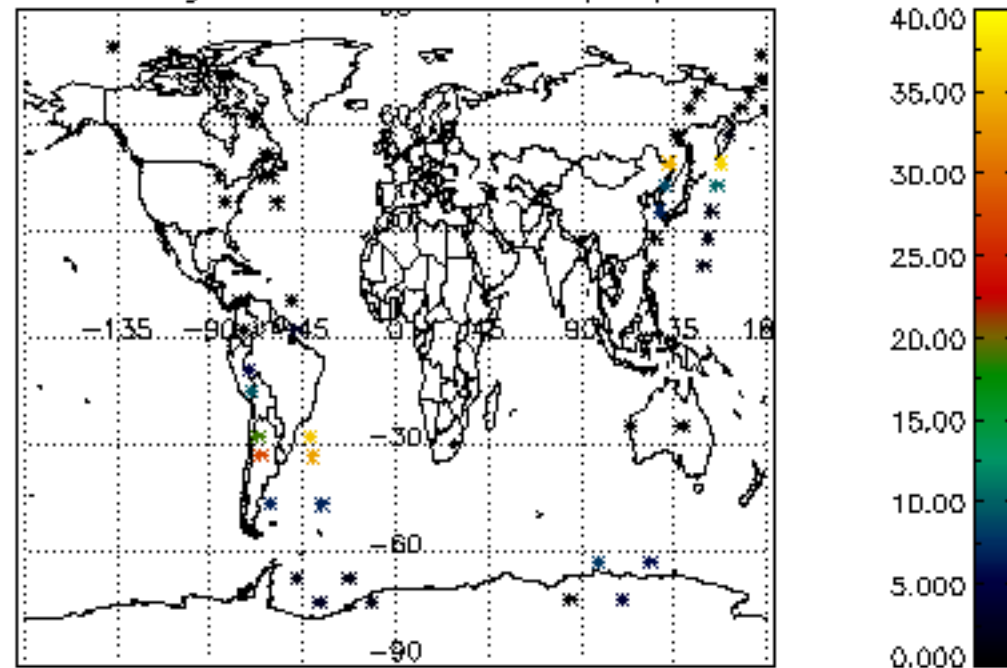
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

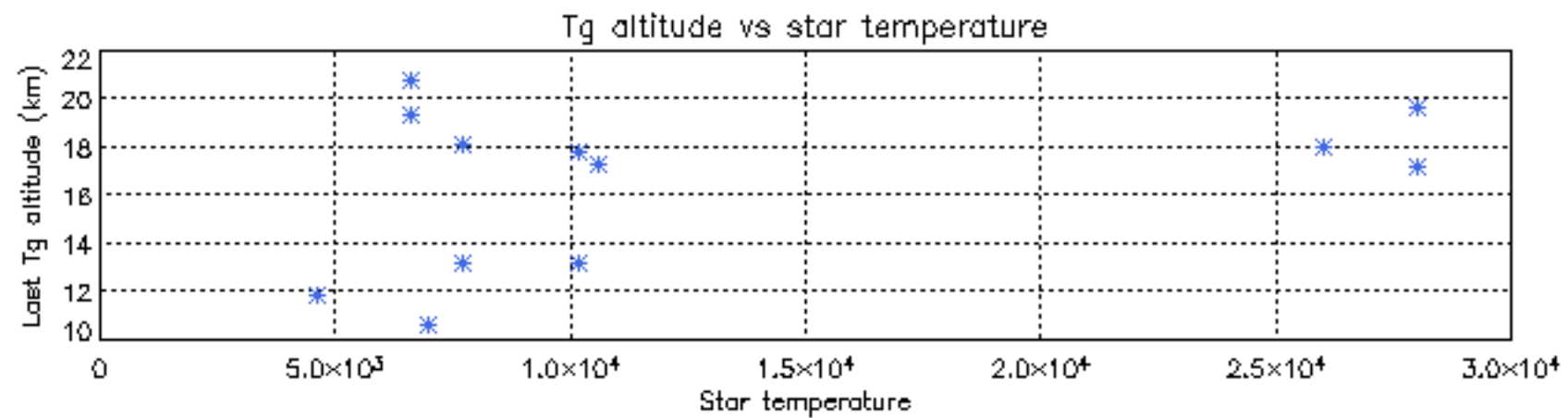
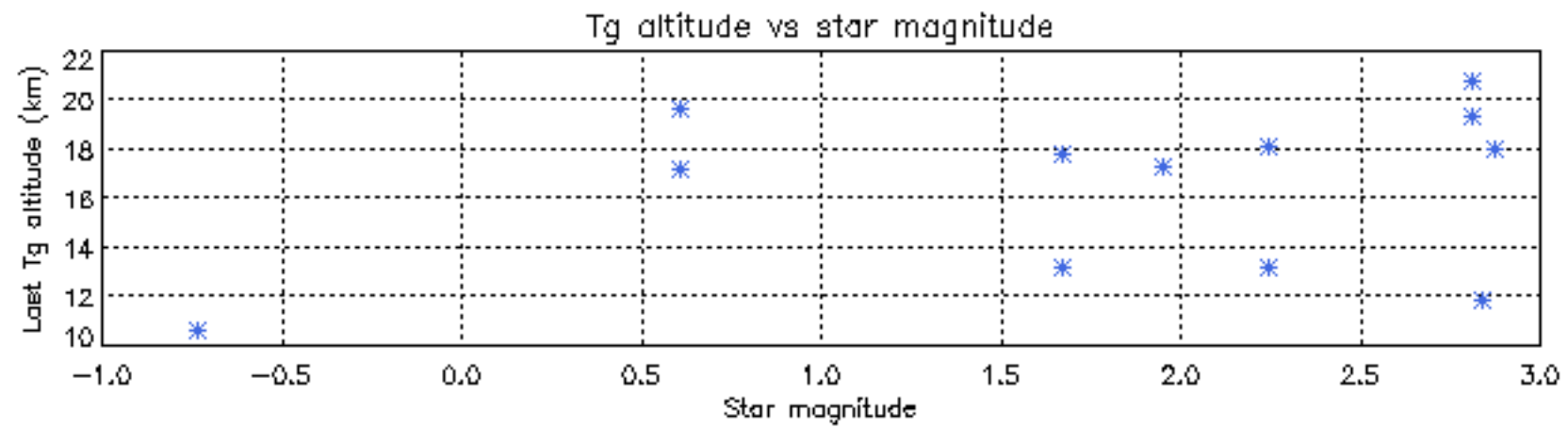
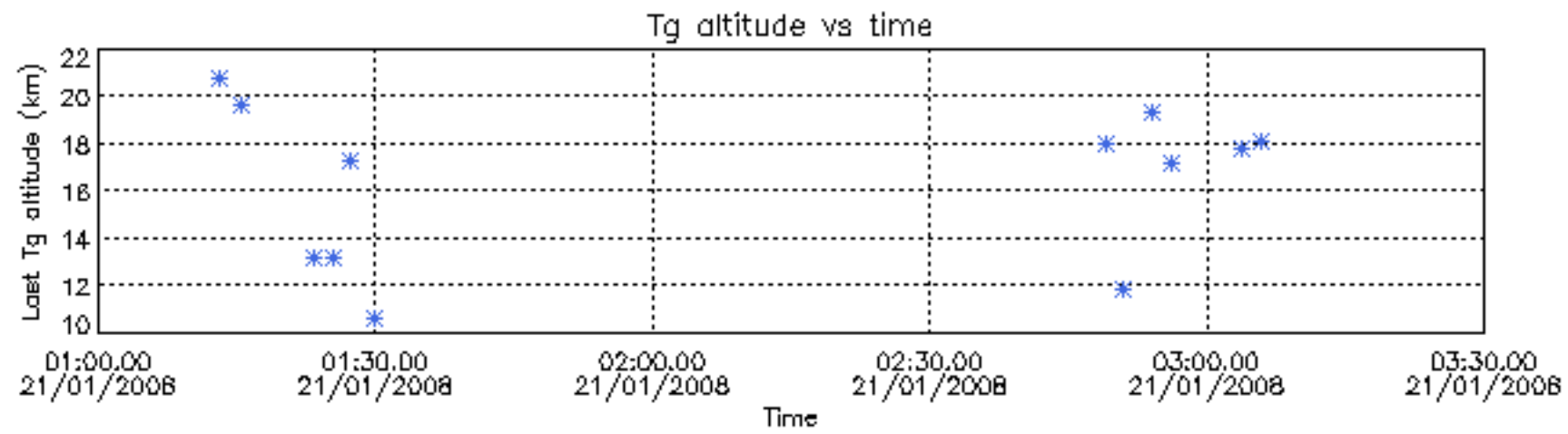


Percentage of saturation errors per profile

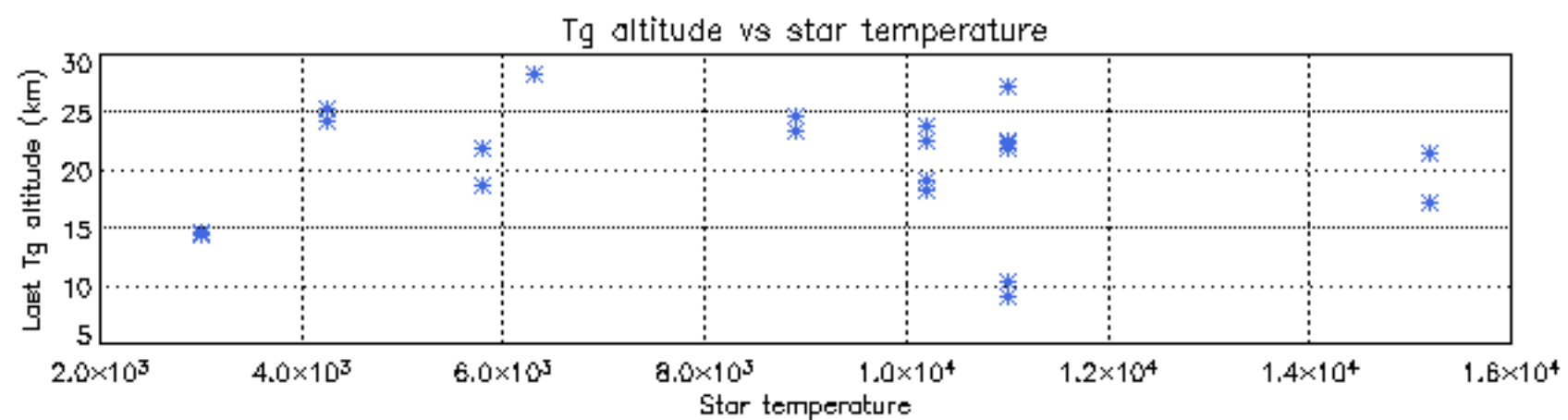
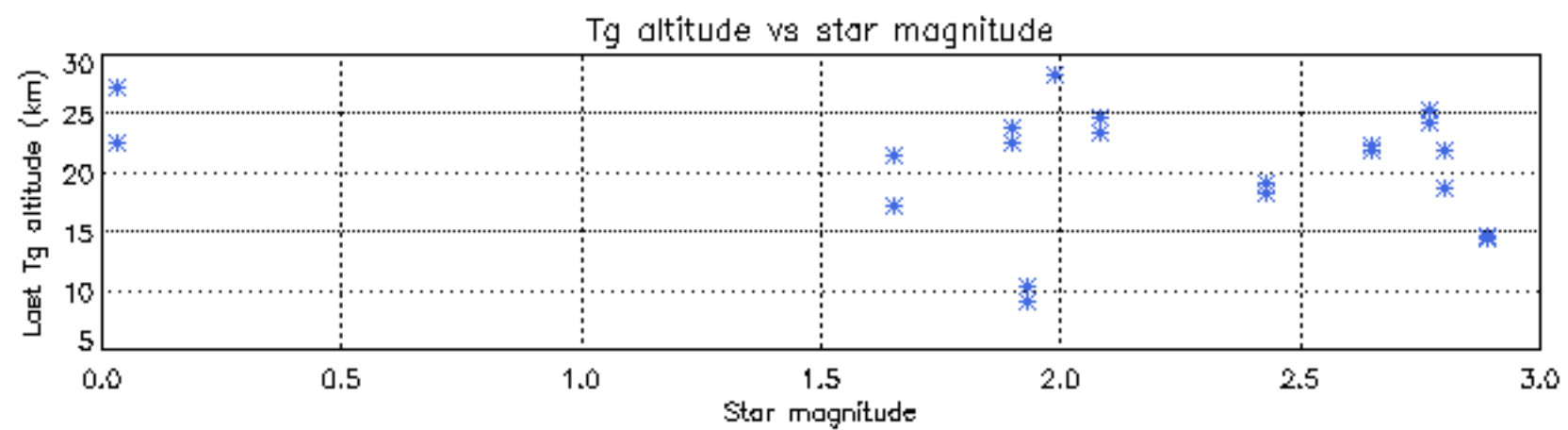
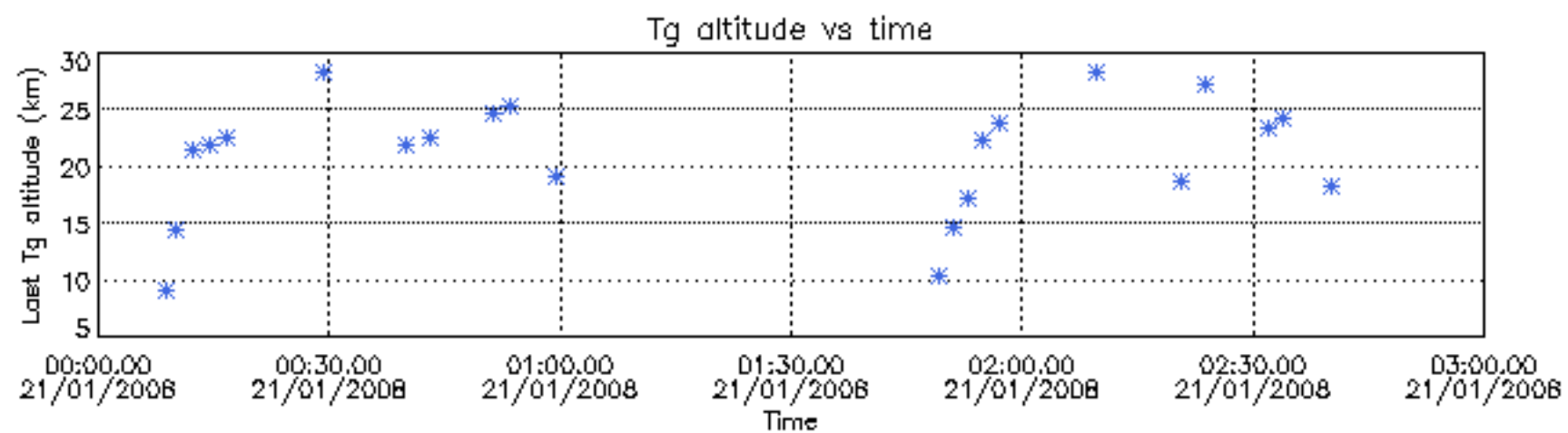




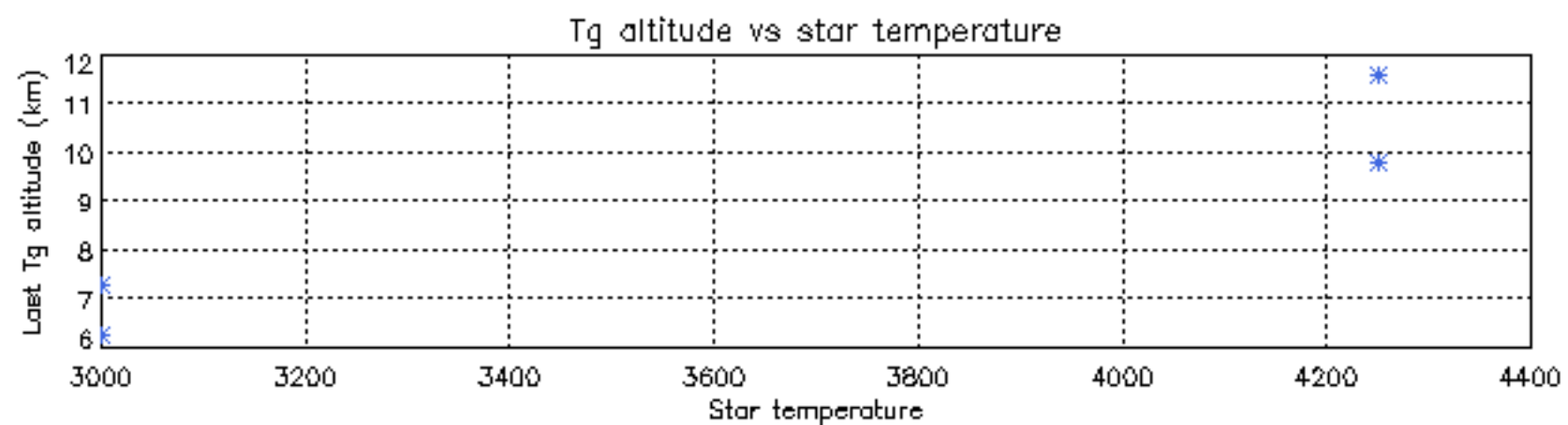
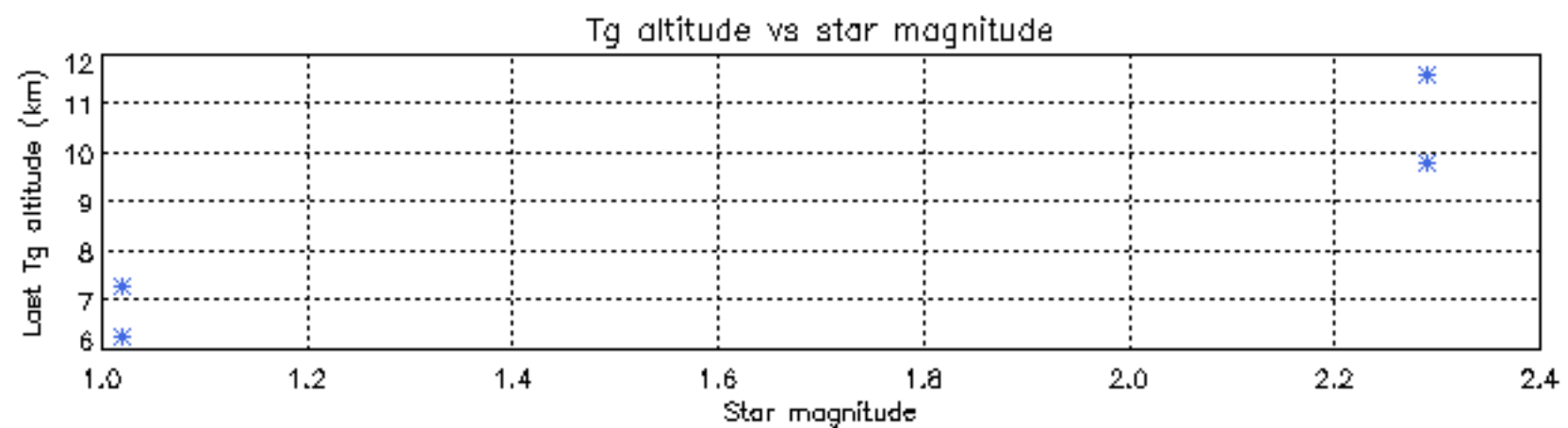
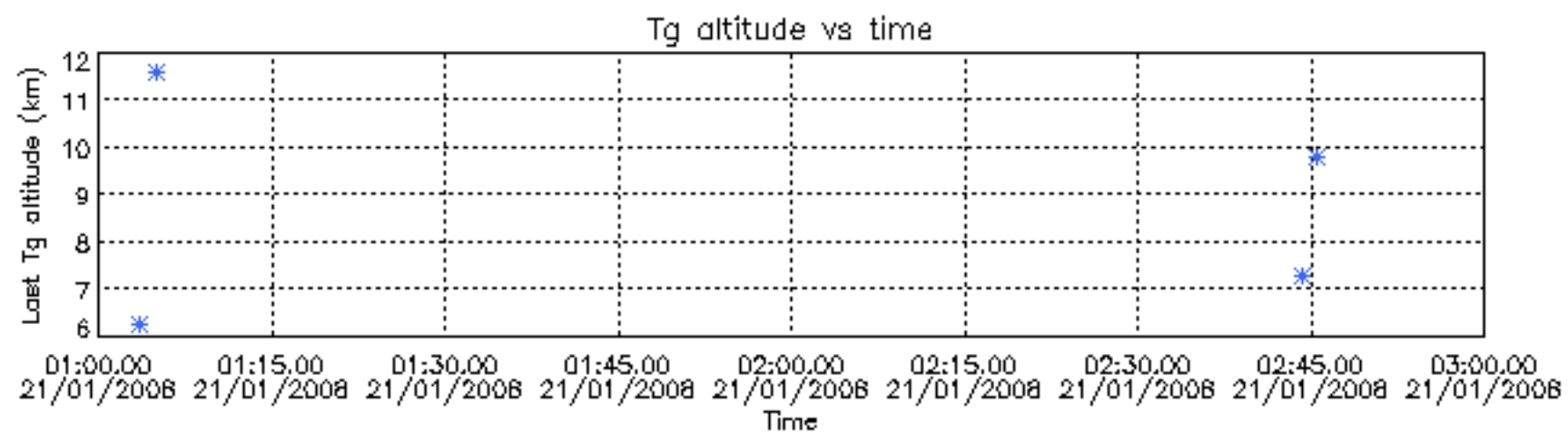
Tangent altitude at which the star is lost



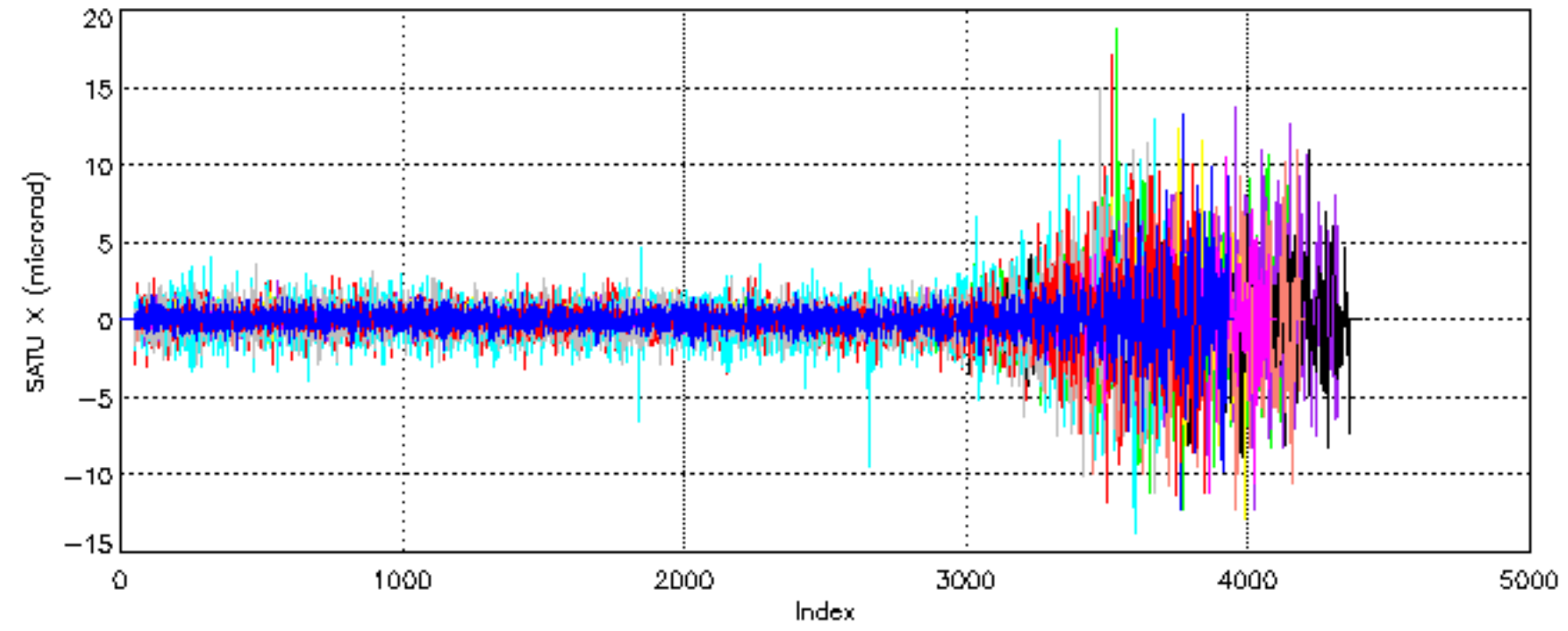
Tangent altitude at which the star is lost

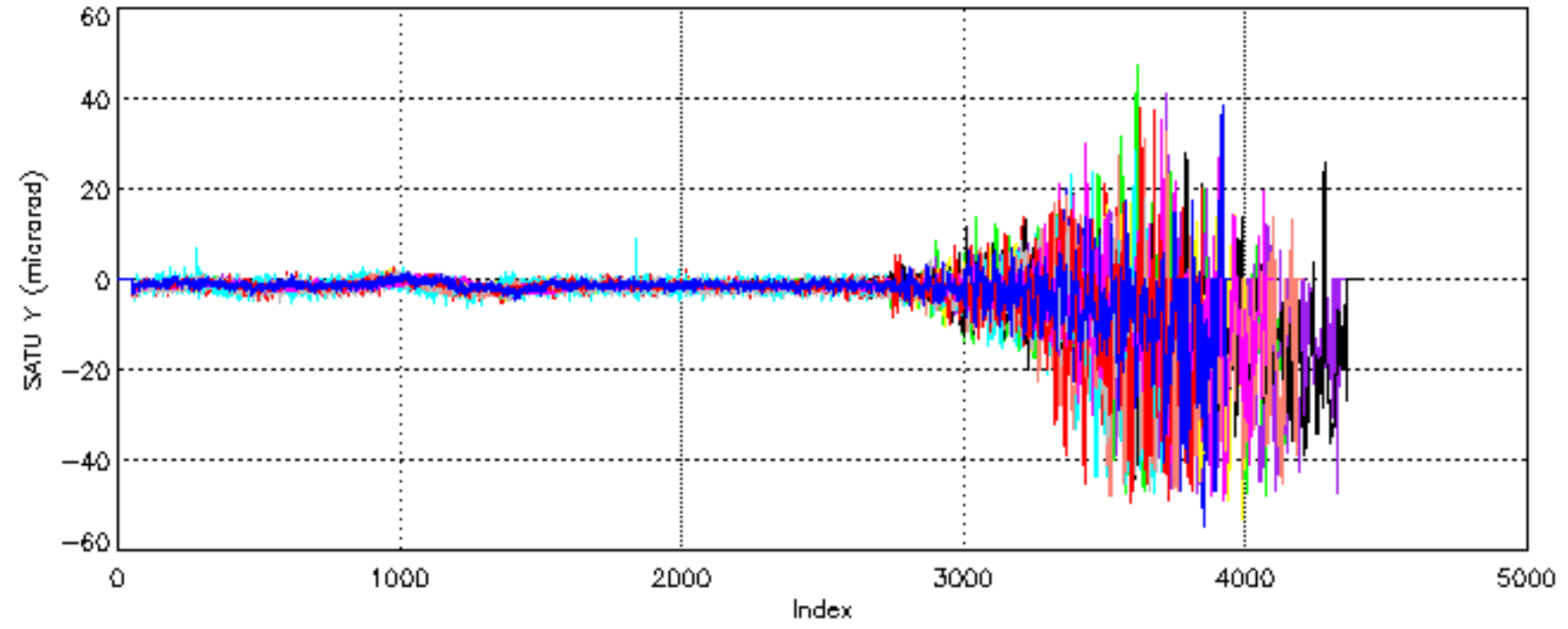


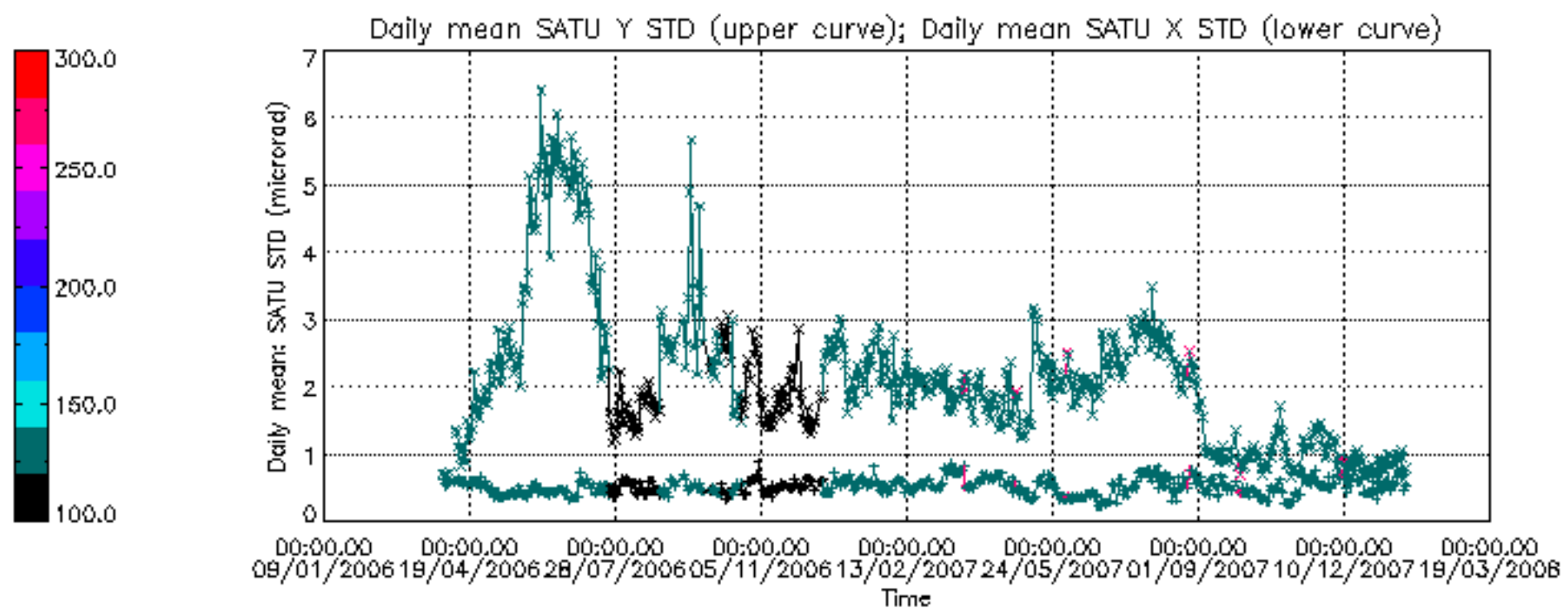
Tangent altitude at which the star is lost











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 2; -107.2; 01-JAN-2008 01:39:02; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;30517  
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 4; 226.4; 01-JAN-2008 01:44:36; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;30518  
 5; 397.9; 01-JAN-2008 01:47:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30518  
 6; 545.2; 01-JAN-2008 01:49:54; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30518  
 7; 627.3; 01-JAN-2008 01:51:16; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30518  
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 9; 977.3; 01-JAN-2008 01:57:06; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;30518  
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 11; 1568.7; 01-JAN-2008 02:06:58; Dark ; 45.0; 47; 2Bet CMA ; 1.98; 28000;occ; 90; 0;30518  
 12; 1769.0; 01-JAN-2008 02:10:18; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30518  
 13; 1881.1; 01-JAN-2008 02:12:10; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;30518  
 14; 2033.3; 01-JAN-2008 02:14:42; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;30518  
 15; 2200.2; 01-JAN-2008 02:17:29; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;30518  
 16; 2398.1; 01-JAN-2008 02:20:47; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30518  
 17; 2472.5; 01-JAN-2008 02:22:02; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30518  
 18; 2611.4; 01-JAN-2008 02:24:20; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30518  
 19; 2693.4; 01-JAN-2008 02:25:42; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;30518  
 20; 3423.3; 01-JAN-2008 02:37:52; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30518

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 5; -1490.9; 01-JAN-2008 02:56:34; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;30518  
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 7; -1007.4; 01-JAN-2008 03:04:38; Bright; 33.5; 120; 1Del Oph ; 2.73; 3200;occ; 67; 0;30518  
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 25; 2200.5; 01-JAN-2008 03:58:05; Dark ; 46.5; 13; 87Alp Tau ; 0.87; 3800;occ; 93; 0;30519  
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 27; 2472.6; 01-JAN-2008 04:02:38; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;30519  
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 4; -1614.7; 01-JAN-2008 04:35:06; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30519  
 5; -1490.8; 01-JAN-2008 04:37:10; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30519  
 6; -1146.7; 01-JAN-2008 04:42:54; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;30519  
 7; -1007.2; 01-JAN-2008 04:45:14; Bright; 33.0; 120; 1Del Oph ; 2.73; 3200;occ; 66; 0;30519  
 8; -843.6; 01-JAN-2008 04:47:57; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;30519  
 9; -685.1; 01-JAN-2008 04:50:36; Dark ; 45.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 91; 0;30519  
 10; -360.4; 01-JAN-2008 04:56:01; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;30519  
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 12; -193.9; 01-JAN-2008 04:58:47; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;30519  
 13; -105.9; 01-JAN-2008 05:00:15; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30519  
 14; -2.0; 01-JAN-2008 05:01:59; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;30519  
 15; 227.5; 01-JAN-2008 05:05:49; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;30520



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16; 398.5; 01-JAN-2008 05:08:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30520
17; 546.0; 01-JAN-2008 05:11:07; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;30520
18; 628.4; 01-JAN-2008 05:12:29; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30520
19; 724.0; 01-JAN-2008 05:14:05; Dark ; 45.5; 41; Eps Car ; 1.86; 4100;occ; 91; 0;30520
20; 977.9; 01-JAN-2008 05:18:19; Dark ; 53.0; 2; Alp Car ;-0.74; 7000;occ; 106; 0;30520
21; 1320.2; 01-JAN-2008 05:24:01; Dark ; 37.5; 108; Alp Col ; 2.65; 15200;occ; 75; 0;30520
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23; 1769.4; 01-JAN-2008 05:31:30; Dark ; 50.5; 7; 19Bet Ori ; 0.10; 14000;occ; 101; 0;30520
24; 1881.5; 01-JAN-2008 05:33:23; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;30520
25; 2033.3; 01-JAN-2008 05:35:54; Dark ; 46.0; 14; 58Alp Ori ; 0.87; 3000;occ; 92; 0;30520
26; 2200.7; 01-JAN-2008 05:38:42; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30520
27; 2398.0; 01-JAN-2008 05:41:59; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30520
28; 2472.6; 01-JAN-2008 05:43:14; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;30520
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2;-2114.1; 01-JAN-2008 06:07:23; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;30520
3;-1988.1; 01-JAN-2008 06:09:29; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30520
4;-1614.5; 01-JAN-2008 06:15:42; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30520
5;-1490.7; 01-JAN-2008 06:17:46; Bright; 55.0; 67; 5Alp CrB ; 2.22; 11000;occ; 110; 0;30520
6;-1146.4; 01-JAN-2008 06:23:31; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30520
7;-1006.9; 01-JAN-2008 06:25:50; Bright; 33.0; 120; 1Del Oph ; 2.73; 3200;occ; 66; 0;30520
8;-843.1; 01-JAN-2008 06:28:34; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;30520
9;-684.5; 01-JAN-2008 06:31:13; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;30520
10; -360.0; 01-JAN-2008 06:36:37; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30520
11; -281.6; 01-JAN-2008 06:37:55; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;30520
12; -193.5; 01-JAN-2008 06:39:24; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;30520
13; -105.3; 01-JAN-2008 06:40:52; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;30520
14; -1.6; 01-JAN-2008 06:42:35; Dark ; 51.5; 4; Alp1Cen ;-0.01; 5800;occ; 103; 0;30520
15; 228.1; 01-JAN-2008 06:46:25; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30521
16; 398.8; 01-JAN-2008 06:49:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30521
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18; 629.0; 01-JAN-2008 06:53:06; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30521
19; 724.4; 01-JAN-2008 06:54:41; Dark ; 54.0; 41; Eps Car ; 1.86; 4100;occ; 108; 0;30521
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22; 1569.3; 01-JAN-2008 07:08:46; Dark ; 42.0; 47; 2Bet CMA ; 1.98; 28000;occ; 84; 0;30521
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9; 2472.8; 01-JAN-2008 17:27:25; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30527
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17; 4546.7; 01-JAN-2008 18:01:59; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;30527
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26; 6267.7; 01-JAN-2008 18:30:40; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30527
27; 6436.9; 01-JAN-2008 18:33:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30527
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5; 1882.0; 01-JAN-2008 18:58:11; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30528
6; 2033.0; 01-JAN-2008 19:00:41; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;30528
7; 2202.0; 01-JAN-2008 19:03:30; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30528
8; 2397.4; 01-JAN-2008 19:06:46; Bright; 39.0; 28; 12Bet Tau ; 1.65; 15200;occ; 78; 0;30528

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 9; 2472.7; 01-JAN-2008 20:48:37; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30529  
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 12; 3690.5; 01-JAN-2008 21:08:55; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;30529  
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 22; 2692.4; 01-JAN-2008 22:32:53; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;30530  
 23; 3423.5; 01-JAN-2008 22:45:04; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30530  
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8; 2692.0; 02-JAN-2008 08:36:28; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;30536
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13; 4424.1; 02-JAN-2008 09:05:20; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30536
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30; 7359.5; 02-JAN-2008 09:54:15; Dark ; 36.5; 108; Alp Col ; 2.65; 15200;occ; 73; 0;30536
31; 7607.3; 02-JAN-2008 09:58:23; Dark ; 43.0; 47; 2Bet CMa ; 1.98; 28000;occ; 86; 0;30536
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 23; 6273.2; 02-JAN-2008 12:57:21; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30538  
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9; 2395.6; 03-JAN-2008 21:24:42; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30558
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16; 4427.4; 03-JAN-2008 21:58:34; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30558
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19; 5038.4; 03-JAN-2008 22:08:45; Bright; 52.0; 120; 1Del Oph ; 2.73; 3200;occ; 104; 0;30558
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19; 5216.2; 04-JAN-2008 16:38:18; Bright; 37.5; 104; 27Bet Lib ; 2.61; 13100;occ; 75; 0;30569  
20; 5315.5; 04-JAN-2008 16:39:57; Bright; 37.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 74; 0;30569  
21; 5425.1; 04-JAN-2008 16:41:47; Dark ; 39.0; 158; 6Pi Sco ; 2.91; 28000;occ; 78; 0;30569  
22; 5691.9; 04-JAN-2008 16:46:13; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30569  
23; 5776.5; 04-JAN-2008 16:47:38; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30569  
24; 5865.7; 04-JAN-2008 16:49:07; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30569  
25; 5961.8; 04-JAN-2008 16:50:43; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30569  
26; 6050.5; 04-JAN-2008 16:52:12; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;30569  
27; 6289.4; 04-JAN-2008 16:56:11; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;30569  
28; 6449.1; 04-JAN-2008 16:58:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30569  
29; 6599.9; 04-JAN-2008 17:01:21; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;30569  
30; 6691.1; 04-JAN-2008 17:02:53; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30569  
31; 6781.9; 04-JAN-2008 17:04:23; Dark ; 39.5; 41; Eps Car ; 1.86; 4100;occ; 79; 0;30569  
32; 7026.8; 04-JAN-2008 17:08:28; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;30569  
33; 7225.1; 04-JAN-2008 17:11:47; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;30569

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4; 1776.3; 04-JAN-2008 17:21:34; Dark ; 43.5; 7; 19Bet Ori ; 0.10; 14000;occ; 87; 0;30570  
5; 1884.9; 04-JAN-2008 17:23:22; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;30570  
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8; 2395.3; 04-JAN-2008 17:31:53; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30570  
9; 2474.8; 04-JAN-2008 17:33:12; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30570  
10; 2557.0; 04-JAN-2008 17:34:34; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;30570  
11; 2690.1; 04-JAN-2008 17:36:48; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;30570  
12; 3423.8; 04-JAN-2008 17:49:01; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30570  
13; 3686.1; 04-JAN-2008 17:53:24; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30570  
14; 3923.8; 04-JAN-2008 17:57:21; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30570  
15; 4056.5; 04-JAN-2008 17:59:34; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30570  
16; 4429.6; 04-JAN-2008 18:05:47; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30570  
17; 4554.8; 04-JAN-2008 18:07:52; Bright; 56.0; 67; 5Alp CrB ; 2.22; 11000;occ; 112; 0;30570  
18; 4905.2; 04-JAN-2008 18:13:43; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;30570  
19; 5042.0; 04-JAN-2008 18:16:00; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30570  
20; 5216.8; 04-JAN-2008 18:18:54; Bright; 46.5; 104; 27Bet Lib ; 2.61; 13100;occ; 93; 0;30570  
21; 5315.7; 04-JAN-2008 18:20:33; Bright; 48.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 97; 0;30570  
22; 5692.2; 04-JAN-2008 18:26:50; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30570  
23; 5776.9; 04-JAN-2008 18:28:14; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;30570  
24; 5866.1; 04-JAN-2008 18:29:44; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30570  
25; 5962.6; 04-JAN-2008 18:31:20; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;30570  
26; 6050.8; 04-JAN-2008 18:32:48; Dark ; 52.5; 4; Alp1Cen ; -0.01; 5800;occ; 105; 0;30570  
27; 6289.9; 04-JAN-2008 18:36:47; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30570  
28; 6449.4; 04-JAN-2008 18:39:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30570  
29; 6600.3; 04-JAN-2008 18:41:58; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30570  
30; 6691.6; 04-JAN-2008 18:43:29; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30570  
31; 6782.2; 04-JAN-2008 18:45:00; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;30570  
32; 7027.0; 04-JAN-2008 18:49:05; Dark ; 11.5; 2; Alp Car ; -0.74; 7000;occ; 23; 0;30570

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3; 1353.4; 04-JAN-2008 18:55:07; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;30571  
4; 1576.2; 04-JAN-2008 18:58:50; Dark ; 42.0; 47; 2Bet CMa ; 1.98; 28000;occ; 84; 0;30571  
5; 1776.4; 04-JAN-2008 19:02:10; Dark ; 42.5; 7; 19Bet Ori ; 0.10; 14000;occ; 85; 0;30571  
6; 1885.0; 04-JAN-2008 19:03:59; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;30571  
7; 2031.4; 04-JAN-2008 19:06:25; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;30571  
8; 2209.6; 04-JAN-2008 19:09:23; Bright; 45.5; 13; 87Alp Tau ; 0.87; 3800;occ; 91; 0;30571  
9; 2395.4; 04-JAN-2008 19:12:29; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;30571  
10; 2475.0; 04-JAN-2008 19:13:48; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30571  
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12; 2690.0; 04-JAN-2008 19:17:24; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30571  
13; 3423.8; 04-JAN-2008 19:29:37; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;30571  
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15; 3923.8; 04-JAN-2008 19:37:57; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;30571  
16; 4056.6; 04-JAN-2008 19:40:10; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68; 0;30571  
17; 4429.7; 04-JAN-2008 19:46:23; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30571  
18; 4554.8; 04-JAN-2008 19:48:28; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;30571  
19; 4905.5; 04-JAN-2008 19:54:19; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;30571  
20; 5042.1; 04-JAN-2008 19:56:36; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30571  
21; 5217.3; 04-JAN-2008 19:59:31; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;30571  
22; 5316.0; 04-JAN-2008 20:01:10; Bright; 36.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 72; 0;30571  
23; 5692.4; 04-JAN-2008 20:07:26; Dark ; 36.0; 131; Gam Lup ; 2.80; 26000;occ; 72; 0;30571  
24; 5777.5; 04-JAN-2008 20:08:51; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30571  
25; 5866.6; 04-JAN-2008 20:10:20; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30571  
26; 5963.2; 04-JAN-2008 20:11:57; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;30571  
27; 6051.1; 04-JAN-2008 20:13:25; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;30571  
28; 6290.3; 04-JAN-2008 20:17:24; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30571  
29; 6449.6; 04-JAN-2008 20:20:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30571  
30; 6600.5; 04-JAN-2008 20:22:34; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30571  
31; 6692.0; 04-JAN-2008 20:24:06; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30571  
32; 6782.6; 04-JAN-2008 20:25:36; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;30571

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2; -257.0; 05-JAN-2008 01:10:40; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;30574  
3; -167.9; 05-JAN-2008 01:12:09; Dark ; 42.0; 78; Alp Lup ; 2.30; 28000;occ; 84; 0;30574

4; -70.7; 05-JAN-2008 01:13:46; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30574  
5; 16.2; 05-JAN-2008 01:15:13; Dark ; 43.5; 4; Alp1Cen ; -0.01; 5800;occ; 87; 0;30575  
6; 255.9; 05-JAN-2008 01:19:13; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30575  
7; 414.6; 05-JAN-2008 01:21:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30575  
8; 565.6; 05-JAN-2008 01:24:23; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30575  
9; 657.7; 05-JAN-2008 01:25:55; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30575  
10; 747.9; 05-JAN-2008 01:27:25; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;30575  
11; 991.9; 05-JAN-2008 01:31:29; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;30575  
12; 1190.6; 05-JAN-2008 01:34:48; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;30575  
13; 1354.3; 05-JAN-2008 01:37:31; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;30575  
14; 1576.8; 05-JAN-2008 01:41:14; Dark ; 42.5; 47; 2Bet CMA ; 1.98; 28000;occ; 85; 0;30575  
15; 1777.0; 05-JAN-2008 01:44:34; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30575  
16; 1885.3; 05-JAN-2008 01:46:22; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;30575  
17; 2031.3; 05-JAN-2008 01:48:48; Dark ; 49.0; 14; 58Alp Ori ; 0.87; 3000;occ; 98; 0;30575  
18; 2268.4; 05-JAN-2008 01:52:46; Bright; 34.5; 176; 23Zet Tau ; 3.02; 22000;occ; 69; 0;30575  
19; 2395.3; 05-JAN-2008 01:54:52; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30575  
20; 2475.1; 05-JAN-2008 01:56:12; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30575  
21; 2556.1; 05-JAN-2008 01:57:33; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;30575  
22; 2689.9; 05-JAN-2008 01:59:47; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30575  
23; 3423.7; 05-JAN-2008 02:12:01; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;30575  
24; 3685.6; 05-JAN-2008 02:16:23; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30575

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4; -1480.3; 05-JAN-2008 02:30:53; Bright; 38.0; 67; 5Alp CrB ; 2.22; 11000;occ; 76; 0;30575  
5; -1128.9; 05-JAN-2008 02:36:44; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;30575  
6; -992.7; 05-JAN-2008 02:39:00; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30575  
7; -816.6; 05-JAN-2008 02:41:56; Bright; 39.5; 104; 27Bet Lib ; 2.61; 13100;occ; 79; 0;30575  
8; -718.7; 05-JAN-2008 02:43:34; Bright; 35.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 71; 0;30575  
9; -609.0; 05-JAN-2008 02:45:24; Dark ; 38.0; 158; 6Pi Sco ; 2.91; 28000;occ; 76; 0;30575  
10; -342.0; 05-JAN-2008 02:49:51; Dark ; 36.0; 131; Gam Lup ; 2.80; 26000;occ; 72; 0;30575  
11; -256.5; 05-JAN-2008 02:51:16; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;30575  
12; -167.3; 05-JAN-2008 02:52:46; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30575  
13; -70.1; 05-JAN-2008 02:54:23; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30575  
14; 16.5; 05-JAN-2008 02:55:50; Dark ; 40.0; 4; Alp1Cen ; -0.01; 5800;occ; 80; 0;30576  
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16; 414.8; 05-JAN-2008 03:02:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30576  
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19; 748.4; 05-JAN-2008 03:08:01; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;30576  
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21; 1191.1; 05-JAN-2008 03:15:24; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30576  
22; 1354.7; 05-JAN-2008 03:18:08; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;30576  
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24; 1777.2; 05-JAN-2008 03:25:10; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;30576  
25; 1885.5; 05-JAN-2008 03:26:58; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;30576  
26; 2031.4; 05-JAN-2008 03:29:24; Dark ; 51.0; 14; 58Alp Ori ; 0.87; 3000;occ; 102; 0;30576  
27; 2268.5; 05-JAN-2008 03:33:21; Bright; 34.5; 176; 23Zet Tau ; 3.02; 22000;occ; 69; 0;30576  
28; 2395.2; 05-JAN-2008 03:35:28; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;30576  
29; 2475.3; 05-JAN-2008 03:36:48; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30576  
30; 2555.9; 05-JAN-2008 03:38:09; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;30576  
31; 2689.9; 05-JAN-2008 03:40:23; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;30576  
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9; -718.4; 05-JAN-2008 04:24:11; Bright; 52.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 104; 0;30576  
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11; -341.7; 05-JAN-2008 04:30:27; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;30576  
12; -256.1; 05-JAN-2008 04:31:53; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30576  
13; -166.7; 05-JAN-2008 04:33:22; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30576



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32; 2689.9; 05-JAN-2008 05:20:59; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30577
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23; 1355.3; 05-JAN-2008 06:39:20; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;30578
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26; 1885.7; 05-JAN-2008 06:48:11; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;30578
27; 2031.4; 05-JAN-2008 06:50:36; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 0;30578
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 27; 3924.2; 05-JAN-2008 22:27:33; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30587  
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 5; 750.0; 05-JAN-2008 09:50:27; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;30580  
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 7; 1192.4; 05-JAN-2008 09:57:49; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30580  
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 4; 2031.2; 05-JAN-2008 11:52:24; Dark ; 44.0; 14; 58Alp Ori ; 0.87; 3000;occ; 88; 0;30581  
 5; 2211.5; 05-JAN-2008 11:55:24; Bright; 42.5; 13; 87Alp Tau ; 0.87; 3800;occ; 85; 0;30581  
 6; 2395.2; 05-JAN-2008 11:58:28; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30581  
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 8; 2555.0; 05-JAN-2008 12:01:08; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;30581  
 9; 2689.6; 05-JAN-2008 12:03:22; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30581  
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 2; -1977.8; 05-JAN-2008 12:26:11; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30581  
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 5; -1126.9; 05-JAN-2008 12:40:22; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;30581  
 6; -990.9; 05-JAN-2008 12:42:38; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30581  
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 3; -339.8; 05-JAN-2008 12:53:29; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30581  
 4; -253.7; 05-JAN-2008 12:54:55; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30581  
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 8; 259.6; 05-JAN-2008 13:03:28; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;30582  
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13; 993.6; 05-JAN-2008 13:15:42; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;30582
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12; 3924.1; 05-JAN-2008 14:04:33; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;30582
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22; 5872.2; 05-JAN-2008 14:37:01; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;30582
23; 5970.4; 05-JAN-2008 14:38:39; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;30582
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12; 3924.2; 05-JAN-2008 15:45:09; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30583
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23; 6304.2; 06-JAN-2008 15:53:12; Dark ; 45.5; 12; Alp1Cru ; 0.77; 30000;occ; 91; 0;30597
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 13; 4060.9; 06-JAN-2008 16:56:24; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;30598  
 14; 4433.9; 06-JAN-2008 17:02:37; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;30598  
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 22; 6060.7; 06-JAN-2008 17:29:44; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;30598  
 23; 6304.6; 06-JAN-2008 17:33:48; Dark ; 49.5; 12; Alp1Cru ; 0.77; 30000;occ; 99; 0;30598  
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 25; 6610.0; 06-JAN-2008 17:38:54; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30598  
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 24; 6061.1; 06-JAN-2008 19:10:21; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;30599  
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 27; 6610.3; 06-JAN-2008 19:19:30; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30599  
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4; 1580.4; 06-JAN-2008 19:36:16; Dark ; 40.5; 47; 2Bet CMa ; 1.98; 28000;occ; 81; 0;30600
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17; 4612.7; 06-JAN-2008 20:26:48; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;30600
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21; 5703.2; 06-JAN-2008 20:44:59; Dark ; 35.5; 131; Gam Lup ; 2.80; 26000;occ; 71; 0;30600
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12; 4435.3; 07-JAN-2008 08:08:02; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;30607
13; 4614.2; 07-JAN-2008 08:11:01; Bright; 53.0; 127; 27Bet Her ; 2.78; 4700;occ; 106; 0;30607
14; 4918.2; 07-JAN-2008 08:16:05; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30607
15; 5052.7; 07-JAN-2008 08:18:20; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;30607
16; 5379.9; 07-JAN-2008 08:23:47; Dark ; 41.0; 80; 7Del Sco ; 2.32; 30000;occ; 82; 0;30607
17; 5706.1; 07-JAN-2008 08:29:13; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;30607
18; 5795.4; 07-JAN-2008 08:30:42; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;30607
19; 5885.2; 07-JAN-2008 08:32:12; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30607
20; 6063.9; 07-JAN-2008 08:35:11; Dark ; 42.0; 4; Alp1Cen ; -0.01; 5800;occ; 84; 0;30607
21; 6309.4; 07-JAN-2008 08:39:16; Dark ; 48.5; 12; Alp1Cru ; 0.77; 30000;occ; 97; 0;30607
22; 6459.9; 07-JAN-2008 08:41:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30607
23; 6613.0; 07-JAN-2008 08:44:20; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30607
24; 6710.5; 07-JAN-2008 08:45:58; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30607
25; 6797.4; 07-JAN-2008 08:47:24; Dark ; 51.5; 41; Eps Car ; 1.86; 4100;occ; 103; 0;30607
26; 7035.7; 07-JAN-2008 08:51:23; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;30607
27; 7237.5; 07-JAN-2008 08:54:45; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;30607
28; 7398.6; 07-JAN-2008 08:57:26; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;30607
29; 7617.5; 07-JAN-2008 09:01:05; Dark ; 43.5; 47; 2Bet CMa ; 1.98; 28000;occ; 87; 0;30607
30; 7818.3; 07-JAN-2008 09:04:25; Dark ; 27.0; 7; 19Bet Ori ; 0.10; 14000;occ; 54; 0;30607
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 2; 1888.6; 07-JAN-2008 09:06:12; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;30608
 3; 2031.4; 07-JAN-2008 09:08:34; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;30608
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 5; 2395.2; 07-JAN-2008 09:14:38; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30608

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7; 2689.5; 07-JAN-2008 09:19:32; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;30608  
8; 3424.1; 07-JAN-2008 09:31:47; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;30608  
9; 3681.6; 07-JAN-2008 09:36:05; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30608  
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12; 4435.4; 07-JAN-2008 09:48:38; Bright; 49.5; 133; 40Zet Her ; 2.81; 6000;occ; 99; 0;30608  
13; 4614.3; 07-JAN-2008 09:51:37; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30608  
14; 4918.5; 07-JAN-2008 09:56:41; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;30608  
15; 5053.0; 07-JAN-2008 09:58:56; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30608  
16; 5380.2; 07-JAN-2008 10:04:23; Dark ; 40.0; 80; 7Del Sco ; 2.32; 30000;occ; 80; 0;30608  
17; 5706.4; 07-JAN-2008 10:09:49; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30608  
18; 5796.0; 07-JAN-2008 10:11:19; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;30608  
19; 5885.8; 07-JAN-2008 10:12:49; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30608  
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21; 6309.9; 07-JAN-2008 10:19:53; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30608  
22; 6460.2; 07-JAN-2008 10:22:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30608  
23; 6613.4; 07-JAN-2008 10:24:56; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30608  
24; 6710.9; 07-JAN-2008 10:26:34; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30608  
25; 6797.8; 07-JAN-2008 10:28:01; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;30608  
26; 7035.8; 07-JAN-2008 10:31:59; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;30608  
27; 7237.7; 07-JAN-2008 10:35:21; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;30608  
28; 7398.8; 07-JAN-2008 10:38:02; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;30608  
29; 7617.6; 07-JAN-2008 10:41:40; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;30608

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3; 2031.3; 07-JAN-2008 10:49:10; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;30609  
4; 2268.0; 07-JAN-2008 10:53:07; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30609  
5; 2395.1; 07-JAN-2008 10:55:14; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30609  
6; 2478.6; 07-JAN-2008 10:56:37; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30609  
7; 2689.4; 07-JAN-2008 11:00:08; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;30609  
8; 3424.1; 07-JAN-2008 11:12:23; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30609  
9; 3681.4; 07-JAN-2008 11:16:40; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;30609  
10; 3924.6; 07-JAN-2008 11:20:43; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;30609  
11; 4062.3; 07-JAN-2008 11:23:01; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30609  
12; 4435.5; 07-JAN-2008 11:29:14; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87; 0;30609  
13; 4614.4; 07-JAN-2008 11:32:13; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30609  
14; 4918.8; 07-JAN-2008 11:37:18; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30609  
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16; 5380.7; 07-JAN-2008 11:45:00; Dark ; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;30609  
17; 5706.9; 07-JAN-2008 11:50:26; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;30609  
18; 5796.4; 07-JAN-2008 11:51:55; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30609  
19; 5886.2; 07-JAN-2008 11:53:25; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30609  
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21; 6310.4; 07-JAN-2008 12:00:29; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30609  
22; 6460.4; 07-JAN-2008 12:02:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30609  
23; 6613.6; 07-JAN-2008 12:05:32; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30609  
24; 6711.4; 07-JAN-2008 12:07:10; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30609  
25; 6798.2; 07-JAN-2008 12:08:37; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;30609  
26; 7036.0; 07-JAN-2008 12:12:35; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;30609  
27; 7238.0; 07-JAN-2008 12:15:57; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30609  
28; 7399.0; 07-JAN-2008 12:18:38; Dark ; 43.0; 23; 21Eps CMa ; 1.50; 26000;occ; 86; 0;30609  
29; 7617.7; 07-JAN-2008 12:22:17; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;30609

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3; 1888.7; 07-JAN-2008 12:27:23; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30610  
4; 2031.4; 07-JAN-2008 12:29:46; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;30610  
5; 2268.1; 07-JAN-2008 12:33:43; Bright; 34.0; 176; 23Zet Tau ; 3.02; 22000;occ; 68; 0;30610  
6; 2395.2; 07-JAN-2008 12:35:50; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30610  
7; 2478.7; 07-JAN-2008 12:37:13; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30610  
8; 2689.5; 07-JAN-2008 12:40:44; Bright; 37.5; 6; 13Alp Aur ; 0.08; 3400;occ; 75; 0;30610  
9; 3424.1; 07-JAN-2008 12:52:59; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30610  
10; 3681.3; 07-JAN-2008 12:57:16; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;30610  
11; 3924.6; 07-JAN-2008 13:01:19; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;30610  
12; 4062.5; 07-JAN-2008 13:03:37; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30610  
13; 4435.7; 07-JAN-2008 13:09:50; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;30610



14; 4614.7; 07-JAN-2008 13:12:49; Bright; 53.0; 127; 27Bet Her ; 2.78; 4700;occ; 106; 0;30610  
 15; 4919.2; 07-JAN-2008 13:17:54; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30610  
 16; 5053.5; 07-JAN-2008 13:20:08; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;30610  
 17; 5380.9; 07-JAN-2008 13:25:36; Dark ; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;30610  
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 19; 5797.0; 07-JAN-2008 13:32:32; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30610  
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 21; 6065.0; 07-JAN-2008 13:37:00; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;30610  
 22; 6311.0; 07-JAN-2008 13:41:06; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30610  
 23; 6460.8; 07-JAN-2008 13:43:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30610  
 24; 6614.0; 07-JAN-2008 13:46:09; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30610  
 25; 6711.9; 07-JAN-2008 13:47:47; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30610  
 26; 6798.7; 07-JAN-2008 13:49:13; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;30610  
 27; 7036.3; 07-JAN-2008 13:53:11; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;30610  
 28; 7238.4; 07-JAN-2008 13:56:33; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30610  
 29; 7399.2; 07-JAN-2008 13:59:14; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;30610

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 3; 1888.9; 07-JAN-2008 14:07:59; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30611  
 4; 2031.5; 07-JAN-2008 14:10:22; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 0;30611  
 5; 2268.1; 07-JAN-2008 14:14:19; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30611  
 6; 2395.2; 07-JAN-2008 14:16:26; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30611  
 7; 2478.9; 07-JAN-2008 14:17:49; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30611  
 8; 2689.5; 07-JAN-2008 14:21:20; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30611  
 9; 3424.2; 07-JAN-2008 14:33:35; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;30611  
 10; 3681.2; 07-JAN-2008 14:37:52; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30611  
 11; 3924.6; 07-JAN-2008 14:41:55; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30611  
 12; 4062.8; 07-JAN-2008 14:44:13; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;30611  
 13; 4436.0; 07-JAN-2008 14:50:27; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30611  
 14; 4615.0; 07-JAN-2008 14:53:26; Bright; 41.5; 127; 27Bet Her ; 2.78; 4700;occ; 83; 0;30611  
 15; 4919.7; 07-JAN-2008 14:58:30; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;30611  
 16; 5053.9; 07-JAN-2008 15:00:45; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;30611  
 17; 5381.4; 07-JAN-2008 15:06:12; Dark ; 40.0; 80; 7Del Sco ; 2.32; 30000;occ; 80; 0;30611  
 18; 5707.7; 07-JAN-2008 15:11:38; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;30611  
 19; 5797.5; 07-JAN-2008 15:13:08; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30611  
 20; 5887.4; 07-JAN-2008 15:14:38; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30611  
 21; 6065.4; 07-JAN-2008 15:17:36; Dark ; 49.0; 4; Alp1Cen ;-0.01; 5800;occ; 98; 0;30611  
 22; 6311.5; 07-JAN-2008 15:21:42; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;30611  
 23; 6461.1; 07-JAN-2008 15:24:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30611  
 24; 6614.4; 07-JAN-2008 15:26:45; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30611  
 25; 6712.5; 07-JAN-2008 15:28:23; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30611  
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 28; 7238.7; 07-JAN-2008 15:37:09; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30611  
 29; 7399.5; 07-JAN-2008 15:39:50; Dark ; 8.5; 23; 21Eps CMa ; 1.50; 26000;occ; 17; 0;30611

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 4; 1889.0; 07-JAN-2008 15:48:36; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30612  
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 6; 2268.1; 07-JAN-2008 15:54:55; Bright; 37.0; 176; 23Zet Tau ; 3.02; 22000;occ; 74; 0;30612  
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 9; 2689.5; 07-JAN-2008 16:01:56; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;30612  
 10; 3424.2; 07-JAN-2008 16:14:11; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30612  
 11; 3681.0; 07-JAN-2008 16:18:28; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30612  
 12; 3924.6; 07-JAN-2008 16:22:31; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30612  
 13; 4062.9; 07-JAN-2008 16:24:49; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30612  
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 17; 5054.3; 07-JAN-2008 16:41:21; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;30612  
 18; 5381.8; 07-JAN-2008 16:46:48; Dark ; 42.5; 80; 7Del Sco ; 2.32; 30000;occ; 85; 0;30612  
 19; 5708.2; 07-JAN-2008 16:52:15; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30612  
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 21; 5887.9; 07-JAN-2008 16:55:14; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30612



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 18; 5456.3; 10-JAN-2008 15:13:12; Dark ; 39.5; 158; 6Pi Sco ; 2.91; 28000;occ; 79; 0;30654  
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 31; 6816.7; 10-JAN-2008 18:57:04; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;30656

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 19; 5069.2; 10-JAN-2008 20:08:33; Bright; 38.0; 120; 1Del Oph ; 2.73; 3200;occ; 76; 0;30657  
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 23; 5726.8; 10-JAN-2008 20:19:30; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30657  
 24; 5822.6; 10-JAN-2008 20:21:06; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;30657  
 25; 5913.0; 10-JAN-2008 20:22:37; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;30657  
 26; 6082.9; 10-JAN-2008 20:25:26; Dark ; 40.5; 4; Alp1Cen ; -0.01; 5800;occ; 81; 0;30657  
 27; 6295.8; 10-JAN-2008 20:28:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30657  
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 29; 6629.9; 10-JAN-2008 20:34:33; Dark ; 42.0; 29; Bet Car ; 1.67; 10200;occ; 84; 0;30657  
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 31; 6817.0; 10-JAN-2008 20:37:41; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;30657

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28; 4443.3; 11-JAN-2008 00:59:55; Bright; 53.0; 133; 40Zet Her ; 2.81; 6000;occ; 106; 0;30660
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 16; 4772.2; 25-JAN-2008 20:32:20; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;30872  
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7;	159.7;	27-JAN-2008	21:33:25;	Dark	;	43.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	87;	0;	30902
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9;	434.6;	27-JAN-2008	21:38:00;	Dark	;	41.5;	12;	Alp1Cru	;	0.77;	30000;occ;	83;	0;	30902
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12;	908.5;	27-JAN-2008	21:45:54;	Dark	;	40.5;	46;	Del Vel	;	1.95;	10600;occ;	81;	0;	30902
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21;	2299.3;	27-JAN-2008	22:09:05;	Bright;		37.5;	151;	13Mu Gem	;	2.89;	3000;occ;	75;	0;	30902
22;	2554.6;	27-JAN-2008	22:13:20;	Bright;		34.5;	107;	37The Aur	;	2.65;	11000;occ;	69;	0;	30902
23;	2681.6;	27-JAN-2008	22:15:27;	Bright;		37.0;	42;	34Bet Aur	;	1.90;	10200;occ;	74;	0;	30902
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27;	4779.7;	27-JAN-2008	22:50:25;	Bright;		53.0;	59;	55Alp Oph	;	2.08;	8900;occ;	106;	0;	30902
28;	4906.6;	27-JAN-2008	22:52:32;	Bright;		34.5;	126;	60Bet Oph	;	2.77;	4250;occ;	69;	0;	30902
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6; 2680.8; 27-JAN-2008 12:11:51; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;30896  
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8; 4086.6; 27-JAN-2008 12:35:16; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;30896  
9; 4294.4; 27-JAN-2008 12:38:44; Bright; 32.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 65; 0;30896  
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16; 6102.3; 27-JAN-2008 13:08:52; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;30896  
17; 6193.1; 27-JAN-2008 13:10:23; Dark ; 40.5; 4; Alp1Cen ;-0.01; 5800;occ; 81; 0;30896  
18; 6359.9; 27-JAN-2008 13:13:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30896  
19; 6467.9; 27-JAN-2008 13:14:58; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30896  
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21; 6835.4; 27-JAN-2008 13:21:05; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;30896  
22; 6942.7; 27-JAN-2008 13:22:53; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;30896  
23; 7097.5; 27-JAN-2008 13:25:27; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;30896  
24; 7223.5; 27-JAN-2008 13:27:33; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;30896  
25; 7310.6; 27-JAN-2008 13:29:00; Dark ; 42.0; 117; Pi Pup ; 2.71; 3800;occ; 84; 0;30896  
26; 7457.9; 27-JAN-2008 13:31:28; Dark ; 41.0; 23; 21Eps CMa ; 1.50; 26000;occ; 82; 0;30896  
27; 7540.8; 27-JAN-2008 13:32:51; Dark ; 37.0; 179; 240mi2CMa ; 3.03; 24000;occ; 74; 0;30896

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17; 6102.6; 27-JAN-2008 14:49:28; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;30897  
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19; 6360.3; 27-JAN-2008 14:53:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30897  
20; 6468.4; 27-JAN-2008 14:55:34; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;30897  
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22; 6835.7; 27-JAN-2008 15:01:41; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;30897  
23; 6943.1; 27-JAN-2008 15:03:29; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;30897  
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25; 7223.8; 27-JAN-2008 15:08:09; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;30897  
26; 7310.8; 27-JAN-2008 15:09:36; Dark ; 37.0; 117; Pi Pup ; 2.71; 3800;occ; 74; 0;30897

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6; 2191.1; 27-JAN-2008 15:24:53; Bright; 35.0; 44; 24Gam Gem ; 1.93; 11000;occ; 70; 0;30898  
7; 2298.9; 27-JAN-2008 15:26:40; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;30898  
8; 2553.8; 27-JAN-2008 15:30:55; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;30898  
9; 2681.2; 27-JAN-2008 15:33:03; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;30898  
10; 3427.3; 27-JAN-2008 15:45:29; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30898  
11; 4086.9; 27-JAN-2008 15:56:28; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;30898  
12; 4294.8; 27-JAN-2008 15:59:56; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;30898  
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15; 5282.5; 27-JAN-2008 16:16:24; Dark ; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;30898  
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17; 5609.1; 27-JAN-2008 16:21:51; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;30898  
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 23; 6701.4; 27-JAN-2008 16:40:03; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30898  
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 26; 7098.2; 27-JAN-2008 16:46:40; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;30898  
 27; 7224.2; 27-JAN-2008 16:48:46; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;30898

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 10; 2681.3; 27-JAN-2008 17:13:39; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;30899  
 11; 3427.2; 27-JAN-2008 17:26:05; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30899  
 12; 4086.8; 27-JAN-2008 17:37:04; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;30899  
 13; 4294.9; 27-JAN-2008 17:40:32; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;30899  
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 17; 5528.7; 27-JAN-2008 18:01:06; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;30899  
 18; 5609.6; 27-JAN-2008 18:02:27; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;30899  
 19; 5688.1; 27-JAN-2008 18:03:46; Dark ; 38.0; 40; The Sco ; 1.86; 7100;occ; 76; 0;30899  
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 22; 6360.9; 27-JAN-2008 18:14:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30899  
 23; 6469.6; 27-JAN-2008 18:16:47; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30899  
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 18; 5529.2; 27-JAN-2008 19:41:43; Dark ; 55.5; 16; 21Alp Sco ; 1.02; 3000;occ; 111; 0;30900  
 19; 5610.0; 27-JAN-2008 19:43:04; Dark ; 41.5; 75; 26Eps Sco ; 2.29; 4250;occ; 83; 0;30900  
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 21; 5802.6; 27-JAN-2008 19:46:16; Dark ; 35.5; 147; Alp Ara ; 2.88; 26000;occ; 71; 0;30900  
 22; 6103.8; 27-JAN-2008 19:51:17; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;30900  
 23; 6195.1; 27-JAN-2008 19:52:49; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;30900  
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 27; 6836.9; 27-JAN-2008 20:03:30; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;30900  
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