

# GOMOS Daily Report 15-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	17JAN2008 05:43:48
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (15JAN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (16JAN2008 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)

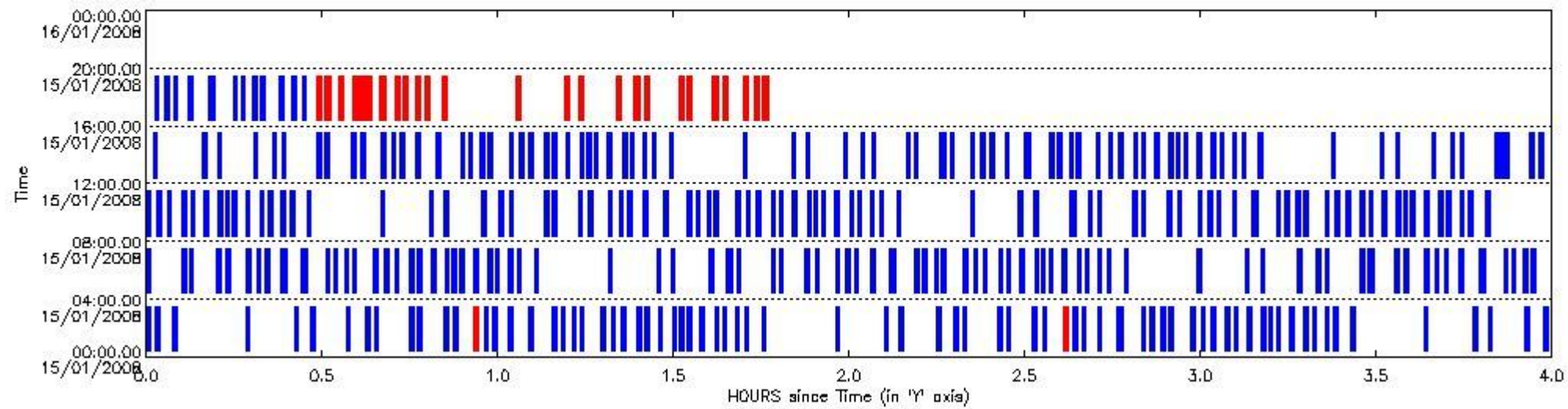
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
15-JAN-2008 00:55:53	GamLup	131	30717
15-JAN-2008 02:36:29	GamLup	131	30718
15-JAN-2008 16:29:06	21EpsCMa	23	30727
15-JAN-2008 16:30:31	24Omi2CMa	179	30727
15-JAN-2008 16:32:45	9AlpCMa	1	30727
15-JAN-2008 16:35:14	53KapOri	56	30727
15-JAN-2008 16:36:24	44IotOri	125	30727
15-JAN-2008 16:37:42	46EpsOri	30	30727
15-JAN-2008 16:39:55	58AlpOri	14	30727
15-JAN-2008 16:42:26	24GamGem	44	30727
15-JAN-2008 16:43:52	23ZetTau	176	30727
15-JAN-2008 16:46:01	12BetTau	28	30727
15-JAN-2008 16:47:36	3IotAur	114	30727
15-JAN-2008 16:50:29	34BetAur	42	30727
15-JAN-2008 17:03:02	1AlpUMi	49	30727

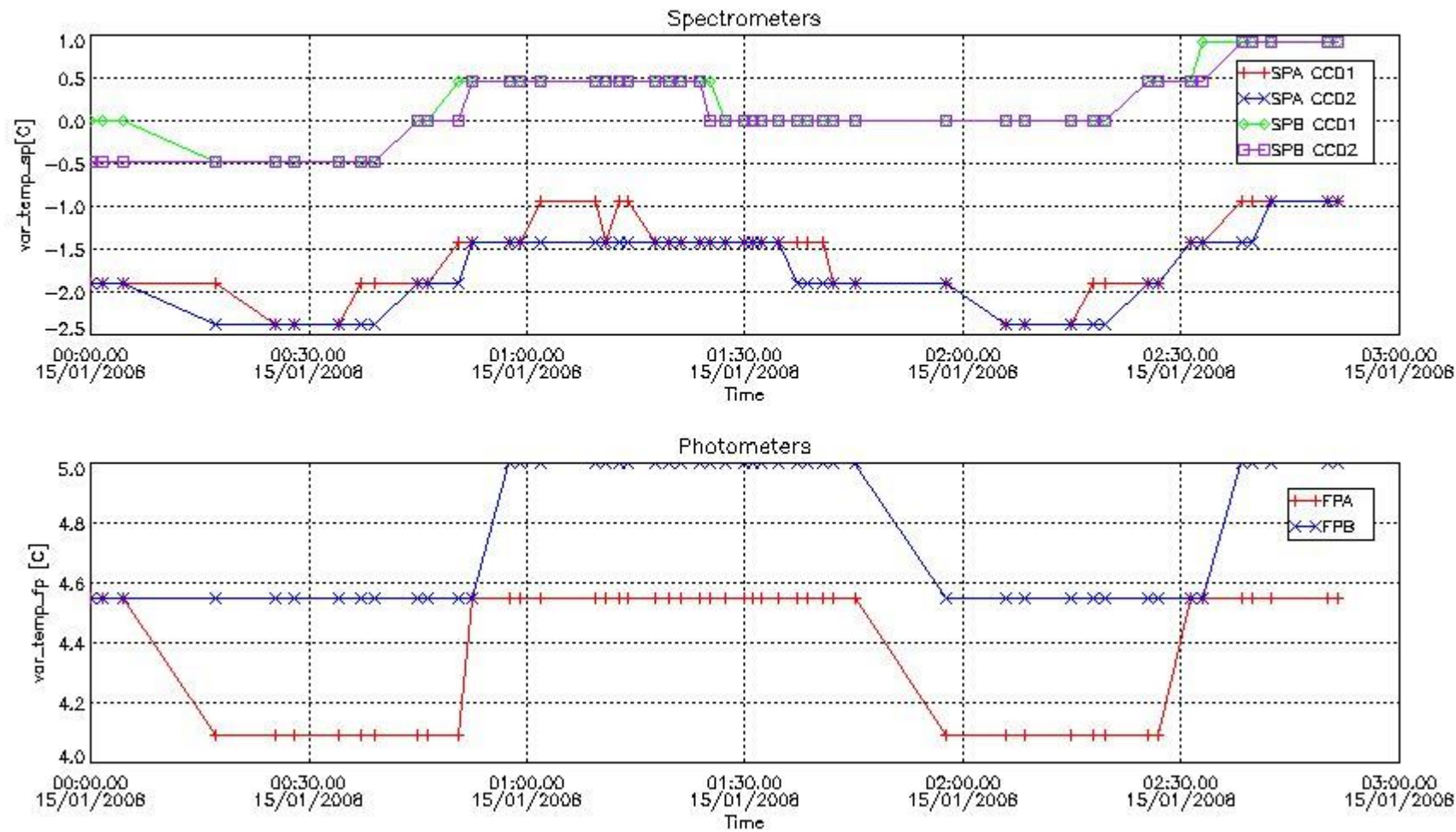
15-JAN-2008 17:11:19	14EtaDra	119	30727
15-JAN-2008 17:13:53	23BetDra	130	30727
15-JAN-2008 17:20:10	40ZetHer	133	30727
15-JAN-2008 17:23:16	27BetHer	127	30727
15-JAN-2008 17:24:58	55AlpOph	59	30727
15-JAN-2008 17:30:53	1DelOph	120	30727
15-JAN-2008 17:32:15	13ZetOph	98	30727
15-JAN-2008 17:36:43	21AlpSco	16	30727
15-JAN-2008 17:38:25	26EpsSco	75	30727
15-JAN-2008 17:41:57	GamLup	131	30727
15-JAN-2008 17:43:42	BetLup	109	30727
15-JAN-2008 17:45:13	AlpLup	78	30727

## 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_1PNPDE20080115_000002_000000352065_00102_30717_7415.N1	15-JAN-2008 00:00:02	Bright	35.000	28	12Bet Tau	1.6500	15200.	70	30717	No
2	GOM_TRA_1PNPDE20080115_000136_000000362065_00102_30717_7416.N1	15-JAN-2008 00:01:36	Bright	36.000	114	31ot Aur	2.6930	4600.0	72	30717	No
3	GOM_TRA_1PNPDE20080115_000432_000000362065_00102_30717_7417.N1	15-JAN-2008 00:04:32	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	30717	No
4	GOM_TRA_1PNPDE20080115_001704_000000322065_00102_30717_7418.N1	15-JAN-2008 00:17:04	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	30717	No
5	GOM_TRA_1PNPDE20080115_002522_000000382065_00102_30717_7419.N1	15-JAN-2008 00:25:22	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	30717	No
6	GOM_TRA_1PNPDE20080115_002755_000000522065_00102_30717_7420.N1	15-JAN-2008 00:27:55	Bright	52.000	130	23Bet Dra	2.7990	5800.0	104	30717	No
7	GOM_TRA_1PNPDE20080115_003411_000000362065_00102_30717_7421.N1	15-JAN-2008 00:34:11	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	30717	No
8	GOM_TRA_1PNPDE20080115_003716_000000552065_00102_30717_7422.N1	15-JAN-2008 00:37:16	Bright	55.000	127	27Bet Her	2.7810	4700.0	110	30717	No
9	GOM_TRA_1PNPDE20080115_003859_000000332065_00102_30717_7423.N1	15-JAN-2008 00:38:59	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	30717	No
10	GOM_TRA_1PNPDE20080115_004452_000000562065_00102_30717_7424.N1	15-JAN-2008 00:44:52	Bright	56.000	120	1Del Oph	2.7340	3200.0	112	30717	No
11	GOM_TRA_1PNPDE20080115_004614_000000532065_00102_30717_7425.N1	15-JAN-2008 00:46:14	Bright	52.500	98	13Zet Oph	2.5710	30000.	105	30717	No
12	GOM_TRA_1PNPDE20080115_005042_000000492065_00102_30717_7574.N1	15-JAN-2008 00:50:42	Twilight	48.500	16	21Alp Sco	1.0200	3000.0	97	30717	No
13	GOM_TRA_1PNPDE20080115_005225_000000412065_00102_30717_7575.N1	15-JAN-2008 00:52:25	Twilight	41.000	75	26Eps Sco	2.2910	4250.0	82	30717	No
14	GOM_TRA_1PNPDE20080115_005738_000000412065_00102_30717_7576.N1	15-JAN-2008 00:57:38	Dark	40.500	109	Bet Lup	2.6770	26000.	81	30717	No
15	GOM_TRA_1PNPDE20080115_005909_000000402065_00102_30717_7577.N1	15-JAN-2008 00:59:09	Dark	40.000	78	Alp Lup	2.3040	28000.	80	30717	No
16	GOM_TRA_1PNPDE20080115_010147_000000542065_00103_30718_7578.N1	15-JAN-2008 01:01:47	Dark	53.500	4	Alp1Cen	-0.010000	5800.0	107	30718	No
17	GOM_TRA_1PNPDE20080115_010924_000000382065_00103_30718_7579.N1	15-JAN-2008 01:09:24	Dark	38.000	124	The Car	2.7640	30000.	76	30718	No
18	GOM_TRA_1PNPDE20080115_011048_000000412065_00103_30718_7580.N1	15-JAN-2008 01:10:48	Dark	41.000	29	Bet Car	1.6720	10200.	82	30718	No
19	GOM_TRA_1PNPDE20080115_011242_000000442065_00103_30718_7581.N1	15-JAN-2008 01:12:42	Dark	43.500	71	1ot Car	2.2460	7700.0	87	30718	No
20	GOM_TRA_1PNPDE20080115_011358_000000442065_00103_30718_7582.N1	15-JAN-2008 01:13:58	Dark	44.000	41	Eps Car	1.8600	4100.0	88	30718	No
21	GOM_TRA_1PNPDE20080115_011737_000000482065_00103_30718_7583.N1	15-JAN-2008 01:17:37	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	30718	No
22	GOM_TRA_1PNPDE20080115_011927_000000392065_00103_30718_7584.N1	15-JAN-2008 01:19:27	Dark	39.000	70	Zet Pup	2.2460	39000.	78	30718	No
23	GOM_TRA_1PNPDE20080115_012108_000000432065_00103_30718_7585.N1	15-JAN-2008 01:21:08	Straylight	43.000	117	Pi Pup	2.7060	3800.0	86	30718	No
24	GOM_TRA_1PNPDE20080115_012342_000000432065_00103_30718_7586.N1	15-JAN-2008 01:23:42	Straylight	42.500	23	21Eps CMa	1.5020	26000.	85	30718	No
25	GOM_TRA_1PNPDE20080115_012508_000000412065_00103_30718_7587.N1	15-JAN-2008 01:25:08	Straylight	40.500	179	24Omi2CMa	3.0320	24000.	81	30718	No
26	GOM_TRA_1PNPDE20080115_012722_000000462065_00103_30718_7588.N1	15-JAN-2008 01:27:22	Straylight	45.500	1	9Alp CMa	-1.4400	11000.	91	30718	No
27	GOM_TRA_1PNPDE20080115_012951_000000402065_00103_30718_7589.N1	15-JAN-2008 01:29:51	Straylight	40.000	56	53Kap Ori	2.0650	30000.	80	30718	No
28	GOM_TRA_1PNPDE20080115_013101_000000392065_00103_30718_7590.N1	15-JAN-2008 01:31:01	Straylight	39.000	125	441ot Ori	2.7700	30000.	78	30718	No
29	GOM_TRA_1PNPDE20080115_013219_000000412065_00103_30718_7591.N1	15-JAN-2008 01:32:19	Twilight	40.500	30	46Eps Ori	1.6940	30000.	81	30718	No
30	GOM_TRA_1PNPDE20080115_013433_000000502065_00103_30718_7592.N1	15-JAN-2008 01:34:33	Twilight	50.000	14	58Alp Ori	0.87000	3000.0	100	30718	No
31	GOM_TRA_1PNPDE20080115_013705_000000412065_00103_30718_7593.N1	15-JAN-2008 01:37:05	Bright	40.500	44	24Gam Gem	1.9280	11000.	81	30718	No
32	GOM_TRA_1PNPDE20080115_013829_000000362065_00103_30718_7594.N1	15-JAN-2008 01:38:29	Bright	35.500	176	23Zet Tau	3.0200	22000.	71	30718	No
33	GOM_TRA_1PNPDE20080115_014038_000000382065_00103_30718_7595.N1	15-JAN-2008 01:40:38	Bright	37.500	28	12Bet Tau	1.6500	15200.	75	30718	No
34	GOM_TRA_1PNPDE20080115_014212_000000382065_00103_30718_7596.N1	15-JAN-2008 01:42:12	Bright	38.000	114	31ot Aur	2.6930	4600.0	76	30718	No
35	GOM_TRA_1PNPDE20080115_014507_000000372065_00103_30718_7597.N1	15-JAN-2008 01:45:07	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	30718	No
36	GOM_TRA_1PNPDE20080115_015740_000000352065_00103_30718_7598.N1	15-JAN-2008 01:57:40	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	30718	No
37	GOM_TRA_1PNPDE20080115_020558_000000442065_00103_30718_7599.N1	15-JAN-2008 02:05:58	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	30718	No
38	GOM_TRA_1PNPDE20080115_020831_000000522065_00103_30718_7600.N1	15-JAN-2008 02:08:31	Bright	52.000	130	23Bet Dra	2.7990	5800.0	104	30718	No
39	GOM_TRA_1PNPDE20080115_021447_000000542065_00103_30718_7601.N1	15-JAN-2008 02:14:47	Bright	54.000	133	40Zet Her	2.8070	6000.0	108	30718	No
40	GOM_TRA_1PNPDE20080115_021752_000000552065_00103_30718_7602.N1	15-JAN-2008 02:17:52	Bright	55.000	127	27Bet Her	2.7810	4700.0	110	30718	No
41	GOM_TRA_1PNPDE20080115_021935_000000332065_00103_30718_7603.N1	15-JAN-2008 02:19:35	Bright	32.500	59	55Alp Oph	2.0800	8900.0	65	30718	No
42	GOM_TRA_1PNPDE20080115_022528_000000392065_00103_30718_7720.N1	15-JAN-2008 02:25:28	Bright	39.000	120	1Del Oph	2.7340	3200.0	78	30718	No

43	GOM_TRA_1PNPDE20080115_022651_000000362065_00103_30718_7721.N1	15-JAN-2008 02:26:51	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	30718	No
44	GOM_TRA_1PNPDE20080115_023118_000000502065_00103_30718_7722.N1	15-JAN-2008 02:31:18	Twilight	49.500	16	21Alp Sco	1.0200	3000.0	99	30718	No
45	GOM_TRA_1PNPDE20080115_023301_000000452065_00103_30718_7723.N1	15-JAN-2008 02:33:01	Twilight	44.500	75	26Eps Sco	2.2910	4250.0	89	30718	No
46	GOM_TRA_1PNPDE20080115_023814_000000432065_00103_30718_7724.N1	15-JAN-2008 02:38:14	Dark	42.500	109	Bet Lup	2.6770	26000.	85	30718	No
47	GOM_TRA_1PNPDE20080115_023945_000000412065_00103_30718_7725.N1	15-JAN-2008 02:39:45	Dark	40.500	78	Alp Lup	2.3040	28000.	81	30718	No
48	GOM_TRA_1PNPDE20080115_024223_000000412065_00104_30719_7726.N1	15-JAN-2008 02:42:23	Dark	40.500	4	Alp1Cen	-0.010000	5800.0	81	30719	No
49	GOM_TRA_1PNPDE20080115_025000_000000382065_00104_30719_7727.N1	15-JAN-2008 02:50:00	Dark	37.500	124	The Car	2.7640	30000.	75	30719	No
50	GOM_TRA_1PNPDE20080115_025125_000000372065_00104_30719_7728.N1	15-JAN-2008 02:51:25	Dark	37.000	29	Bet Car	1.6720	10200.	74	30719	No

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



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

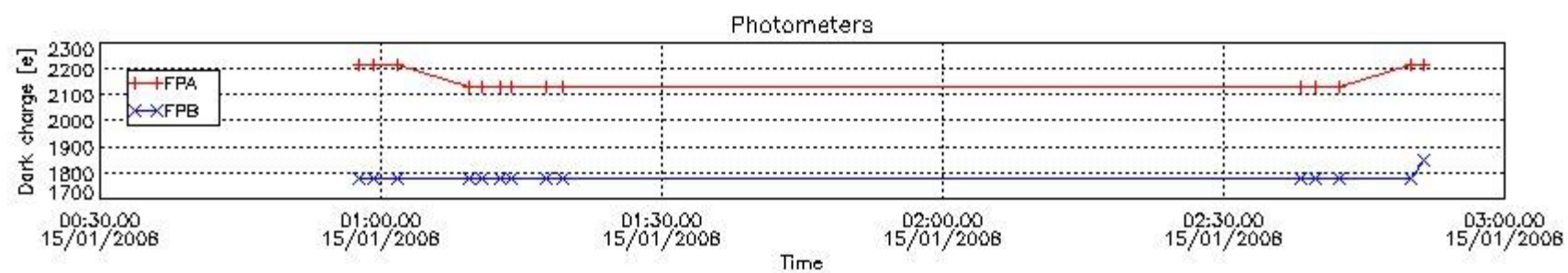
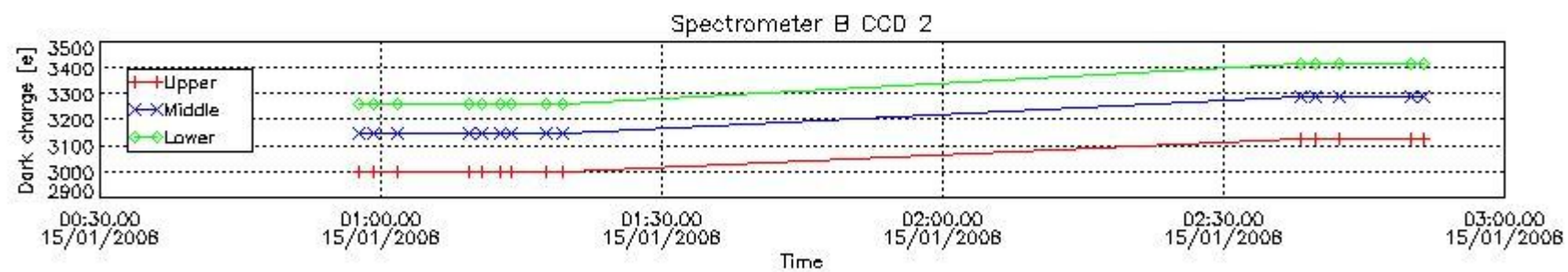
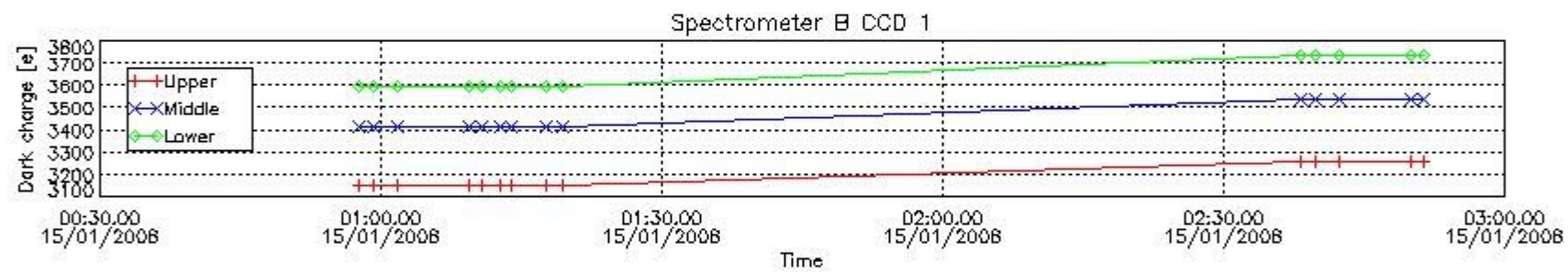
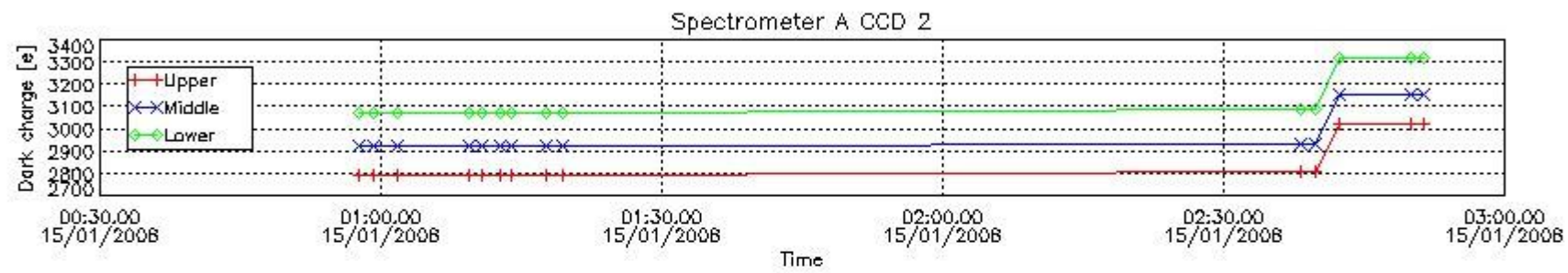
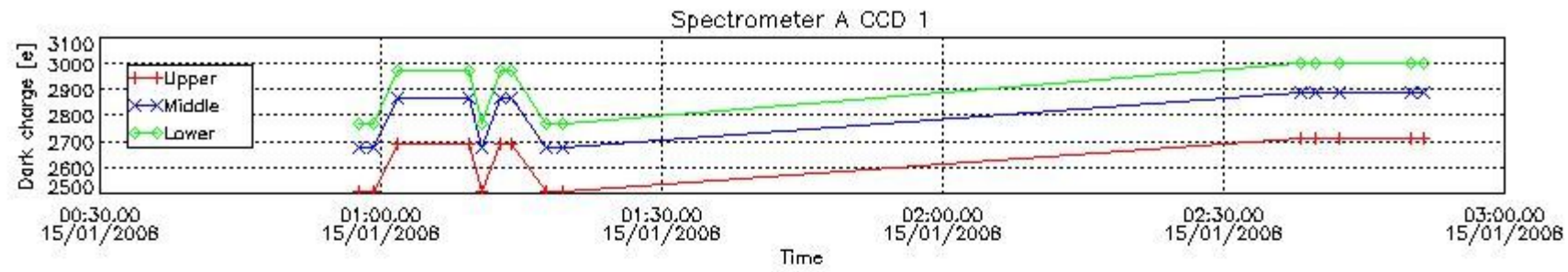
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





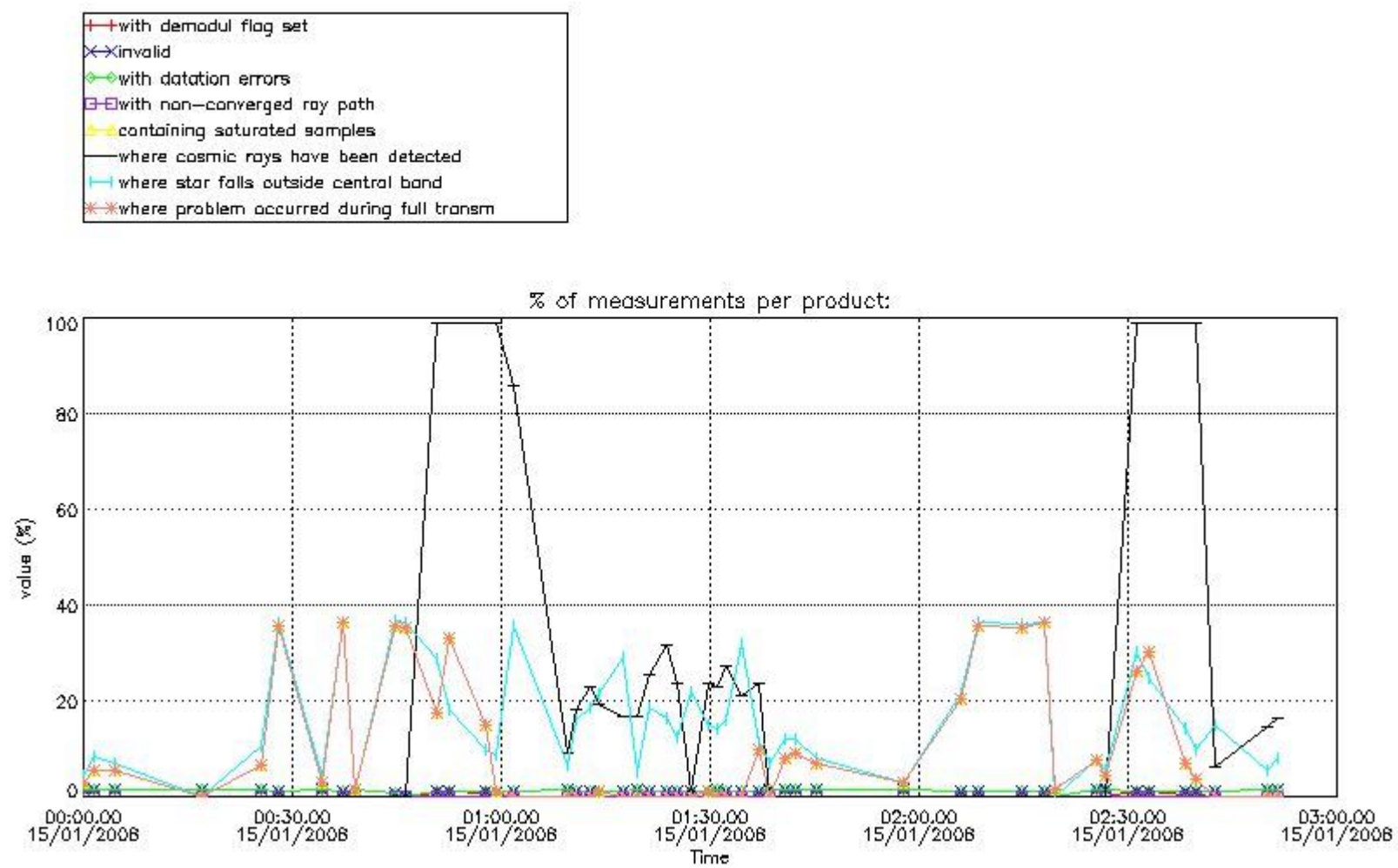
## 5. Demodulation flag and quality information monitoring

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:

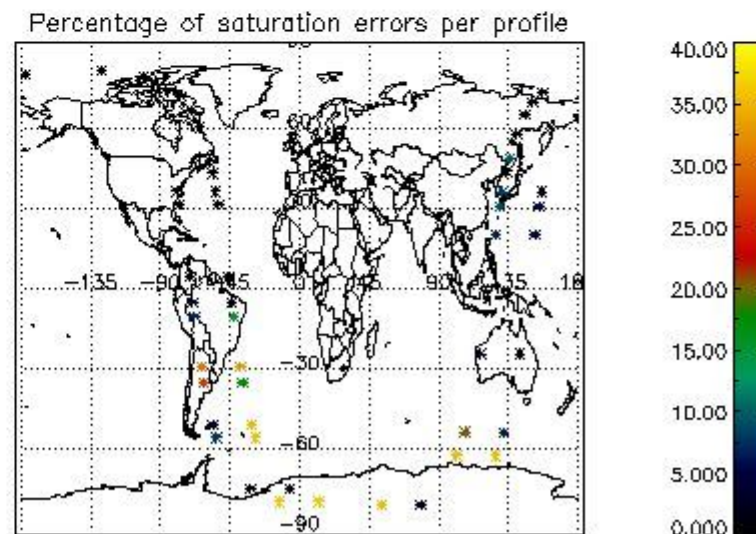
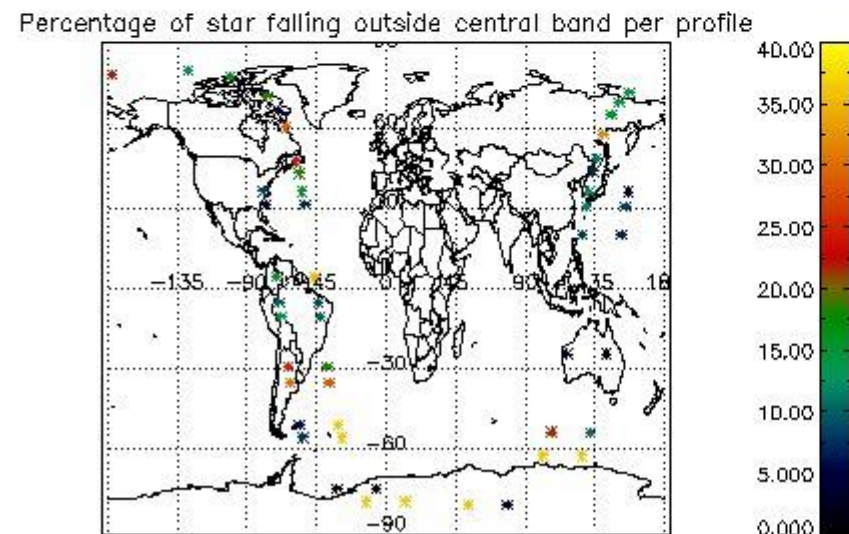
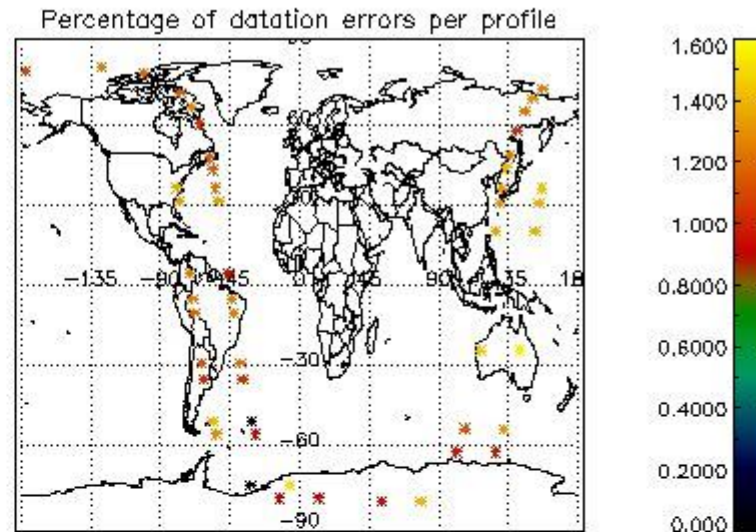
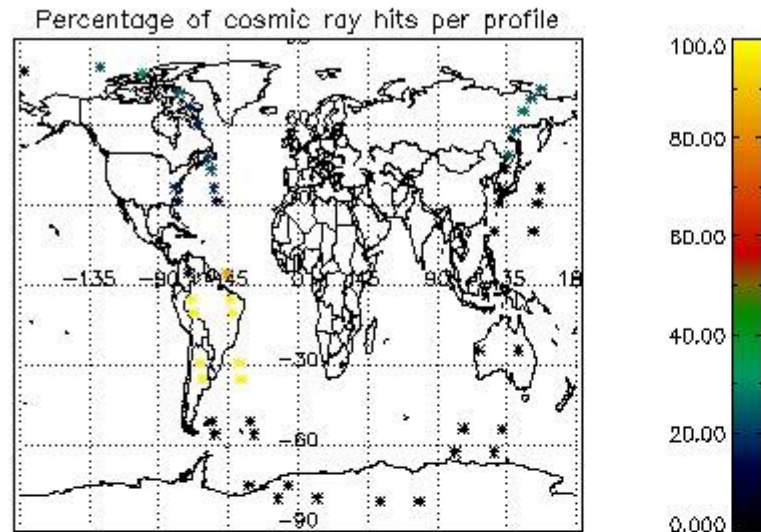
At least one measurement with demodulation flag set:	26.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





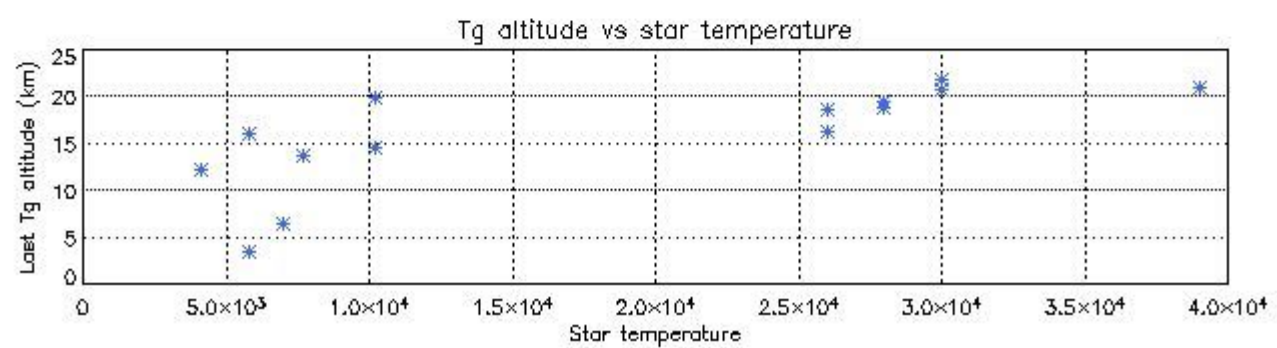
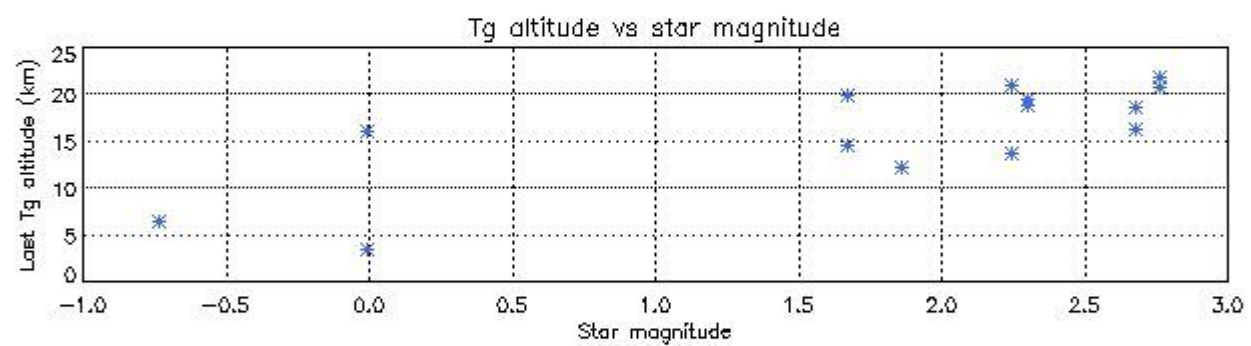
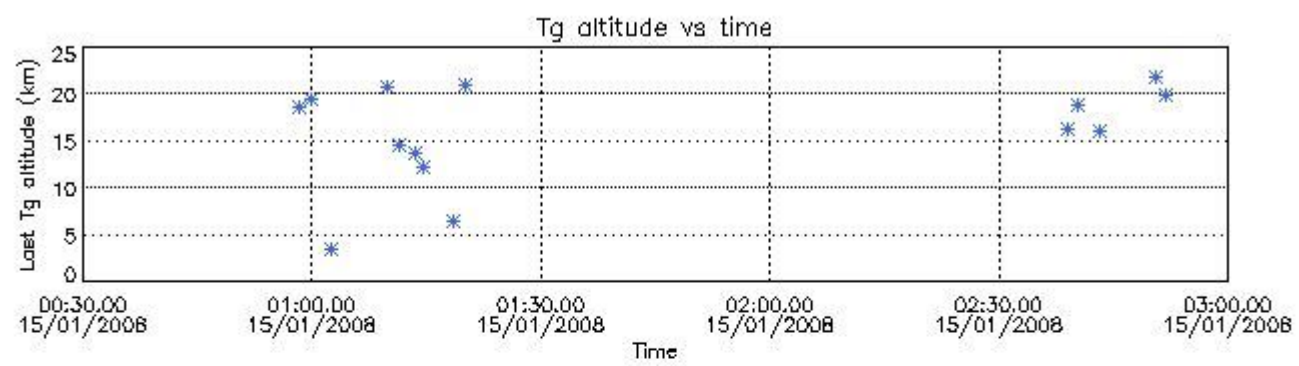
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.914	15.683	11.173
St. deviation:	5.4922	8.4900	2.0753
Maximum:	21.840	29.525	12.640
Minimum:	3.4575	3.4345	9.7053
Number of data:	14.000	24.000	2.0000

### 6.2 Plot for DARK limb products

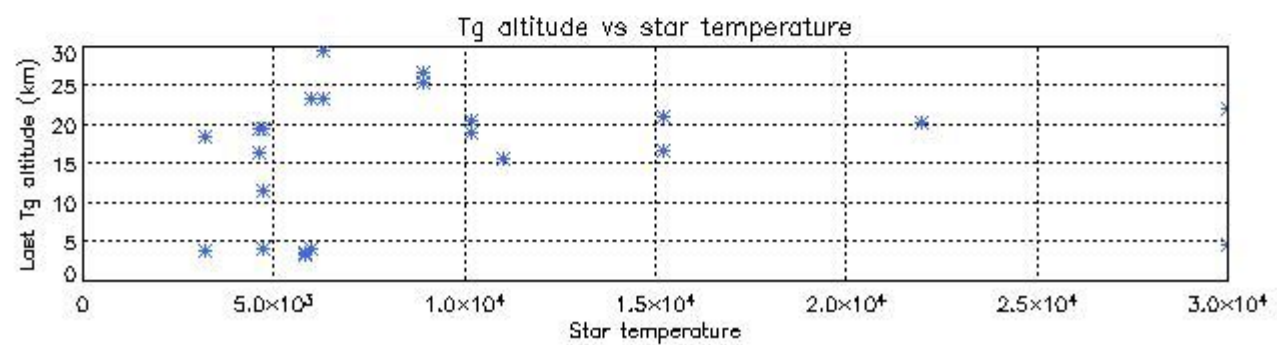
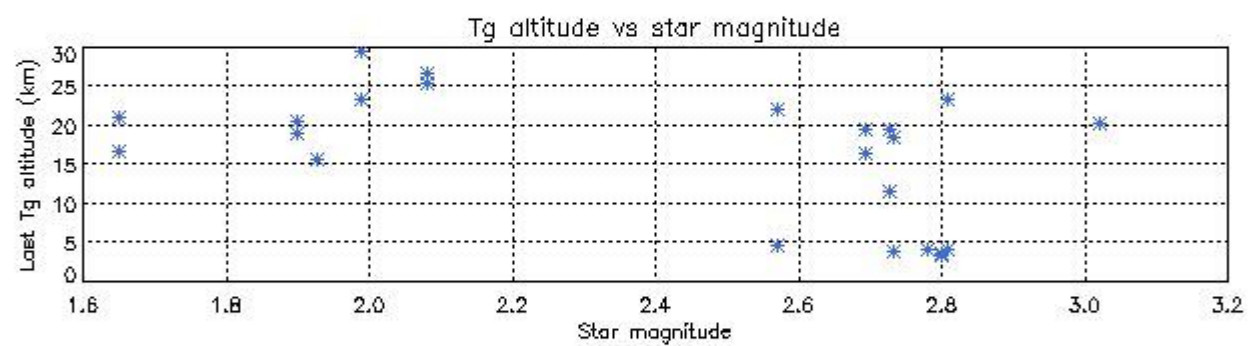
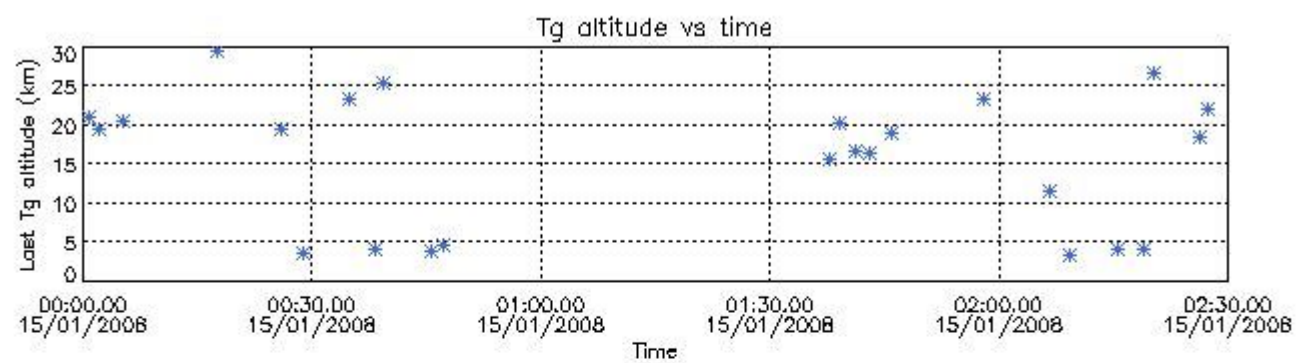
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

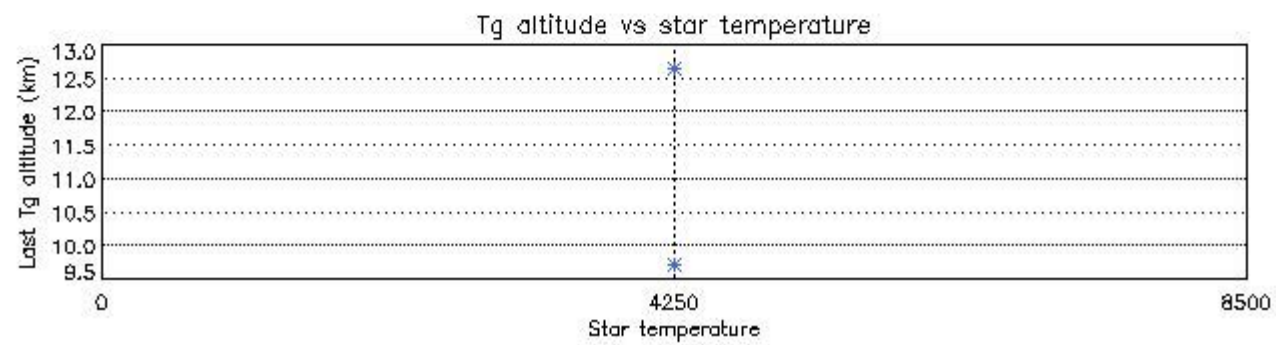
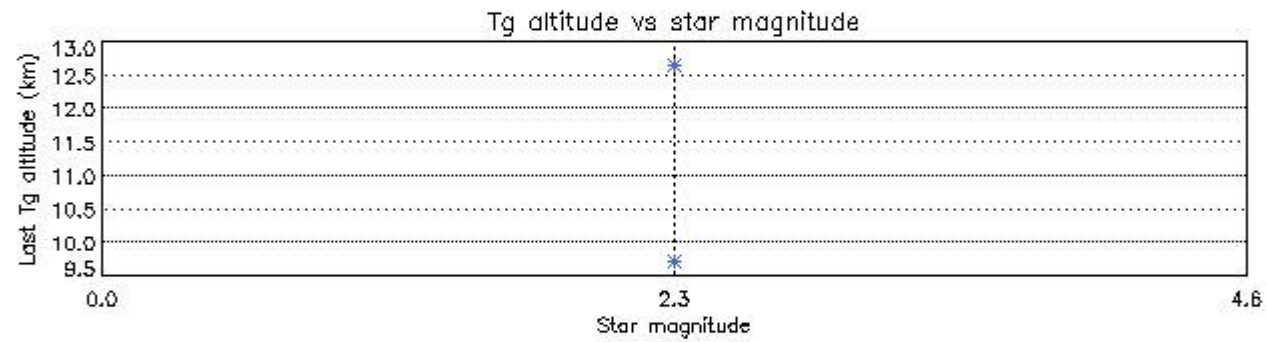
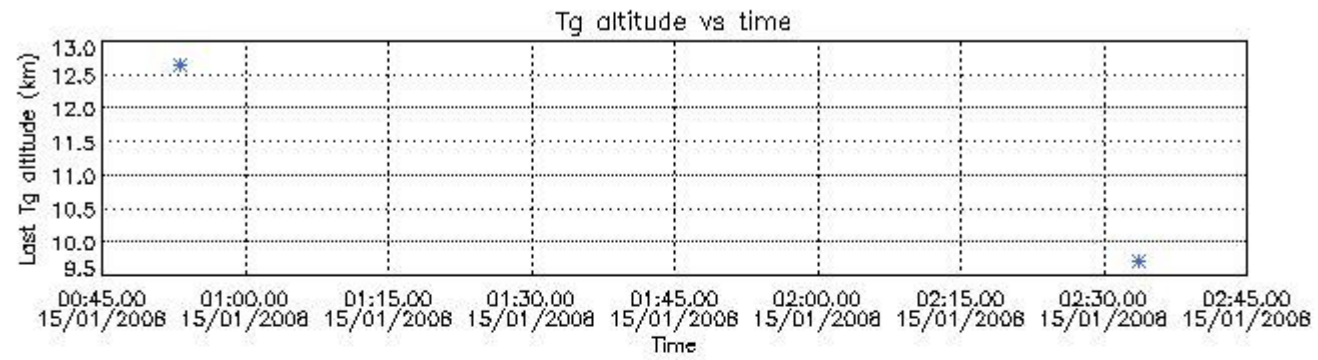


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

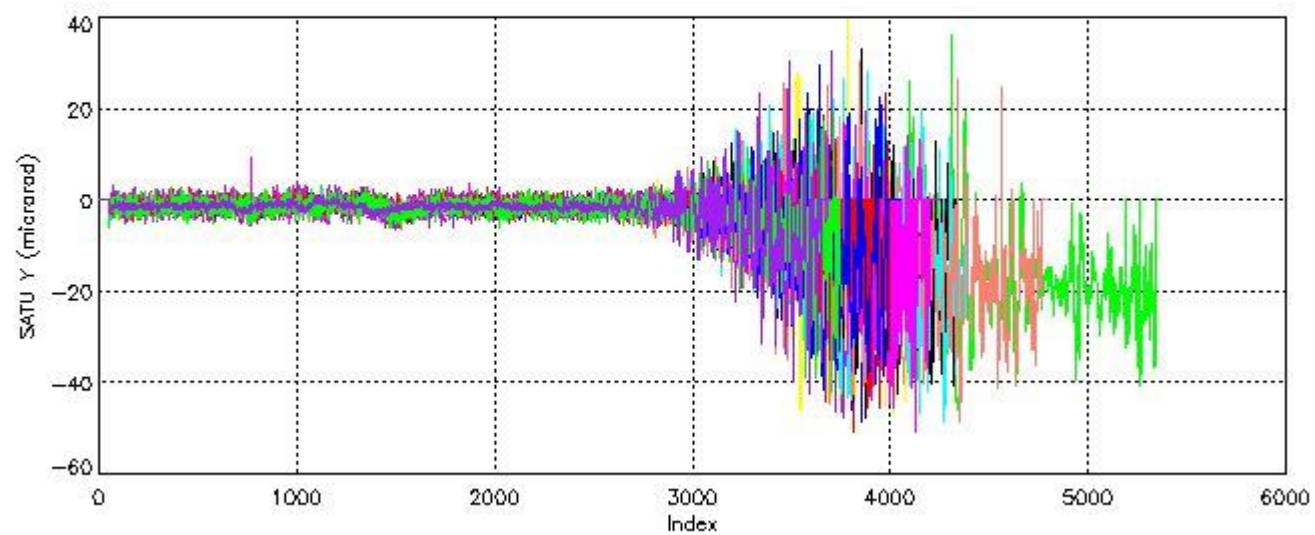
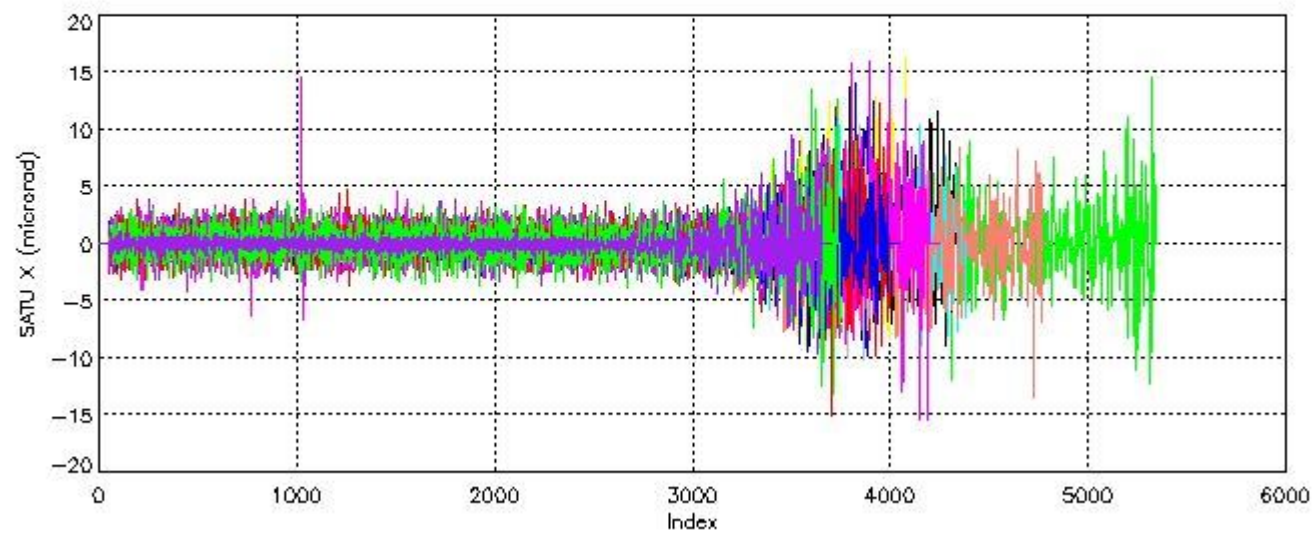


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.080467	-1.3032	0.0036627	-1.3177
St. deviation:	0.64390	0.90214	0.70676	1.0112
Maximum:	3.9000	9.3000	5.1000	3.8000
Minimum:	-6.3000	-5.9000	-4.5000	-6.3000



Number of data:	12650.	12650.	19800.	19800.
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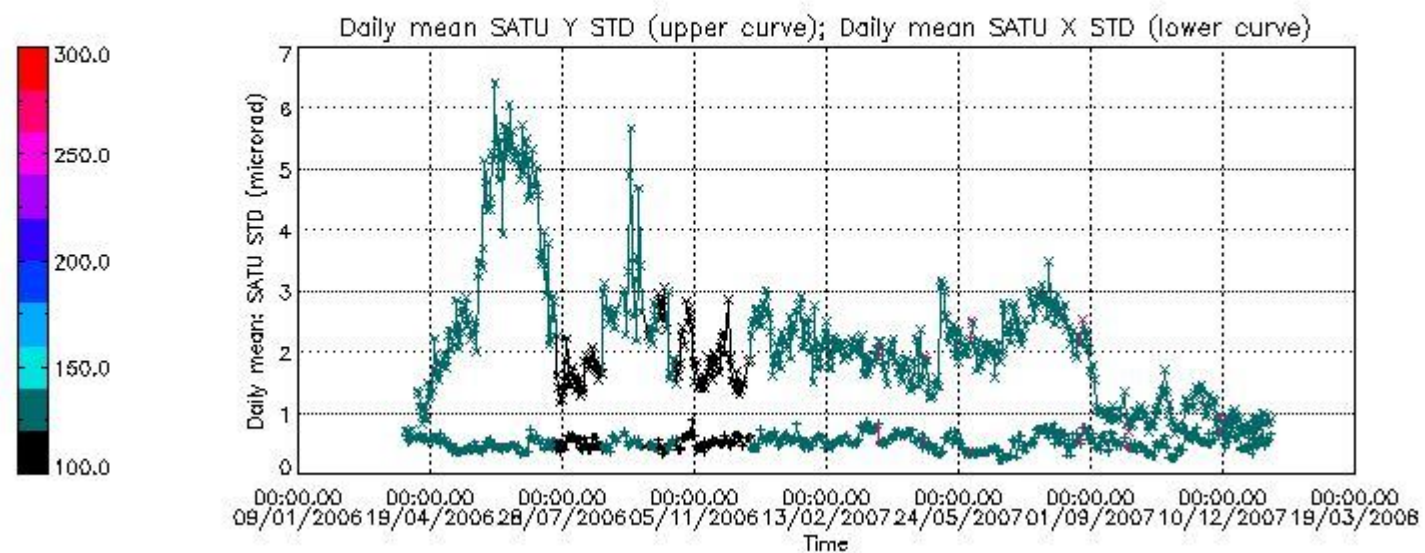
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

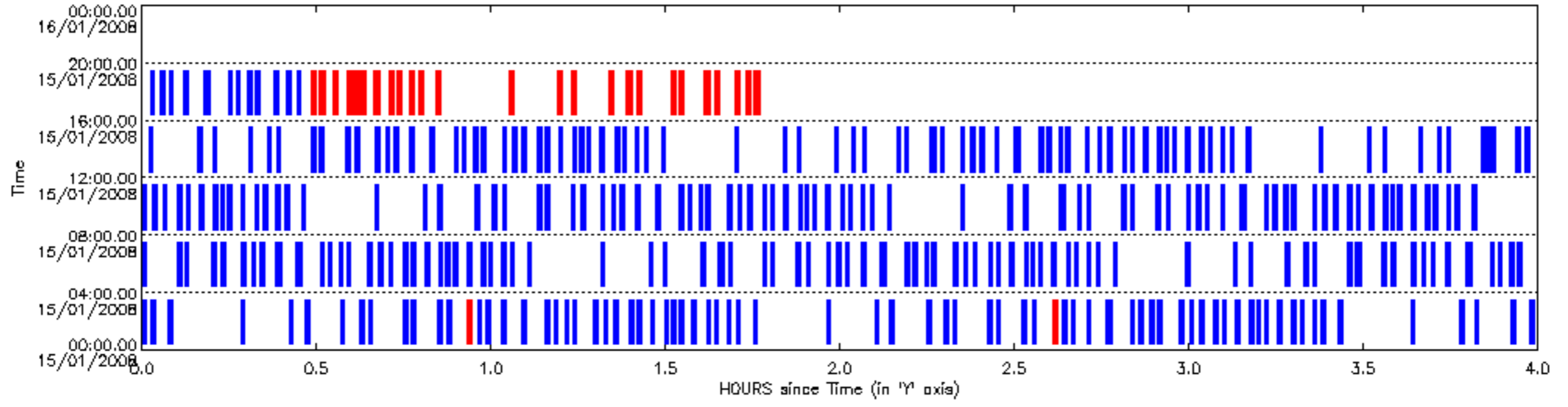
Lower curve: STD of SATU X axis

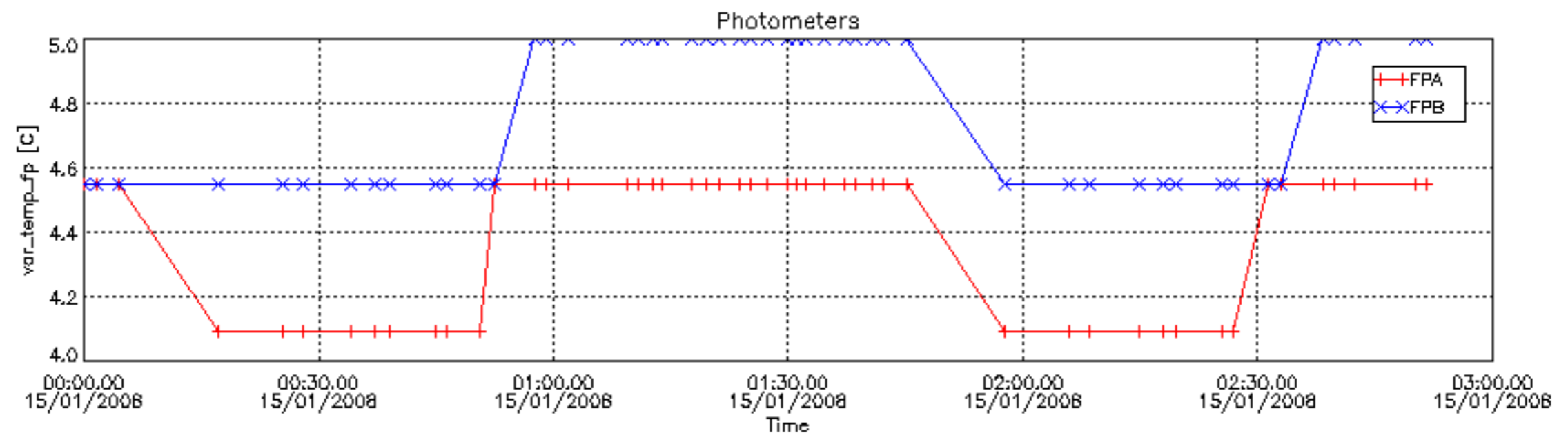
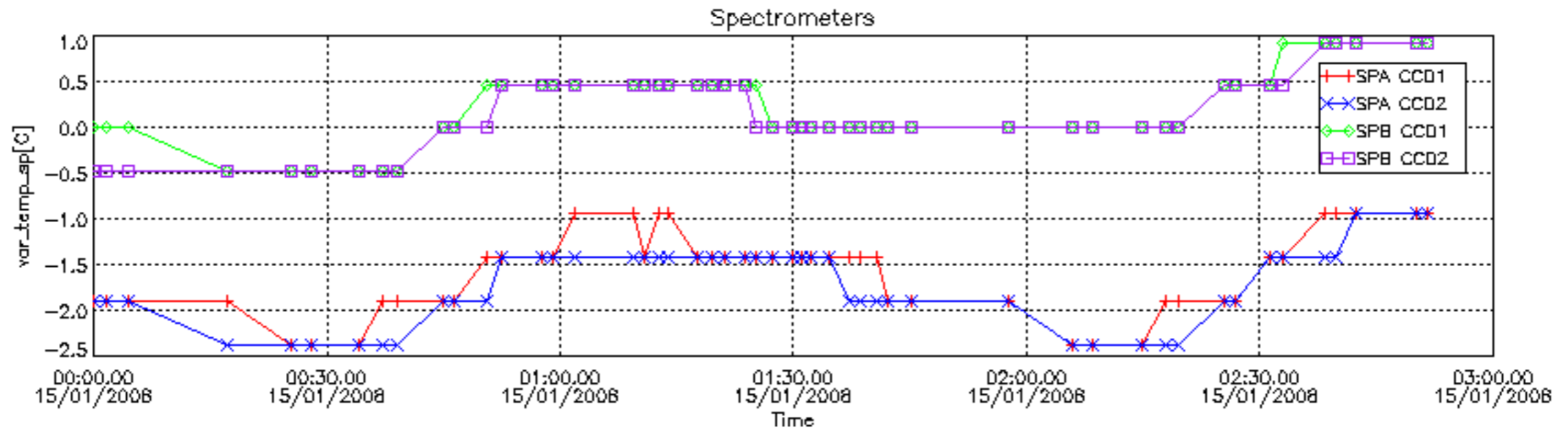


### 8. Auxiliary Data Files used for the production reported in section 2.4

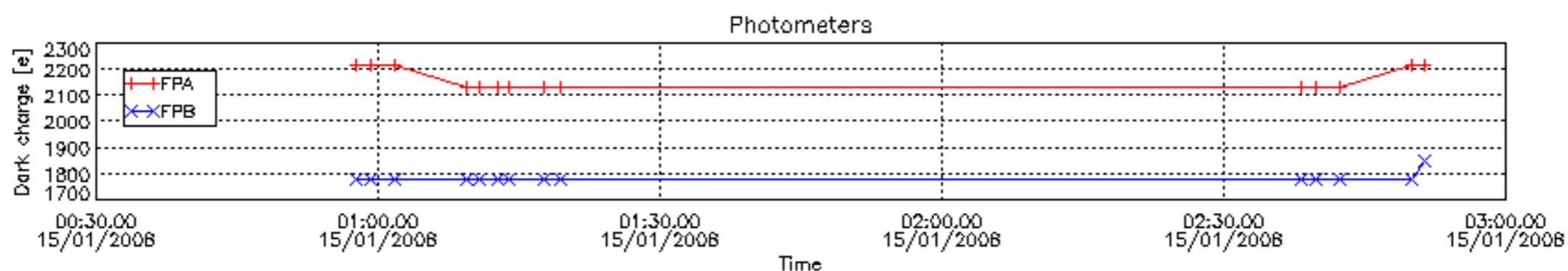
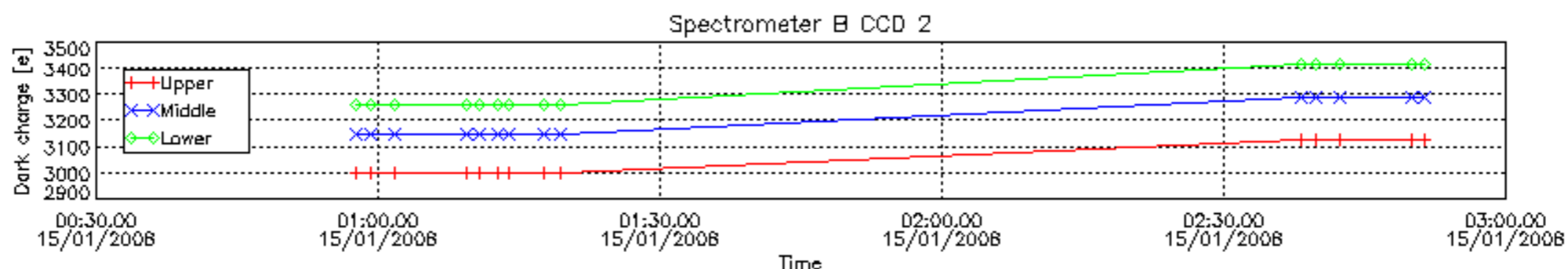
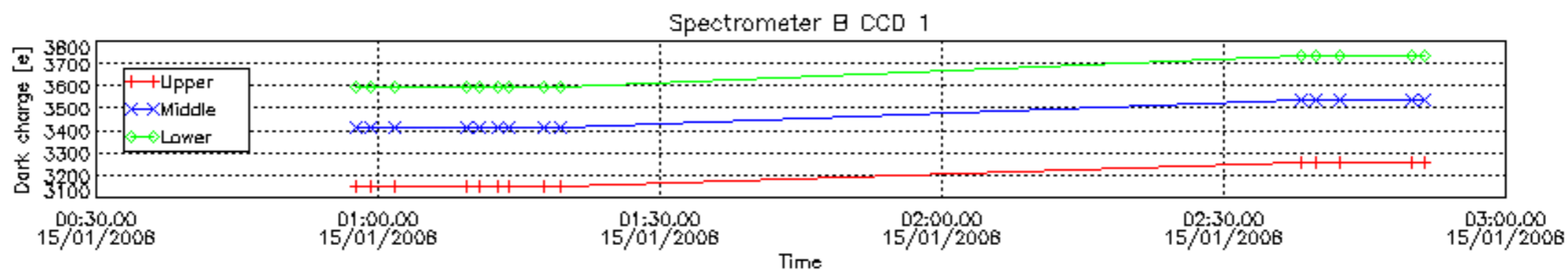
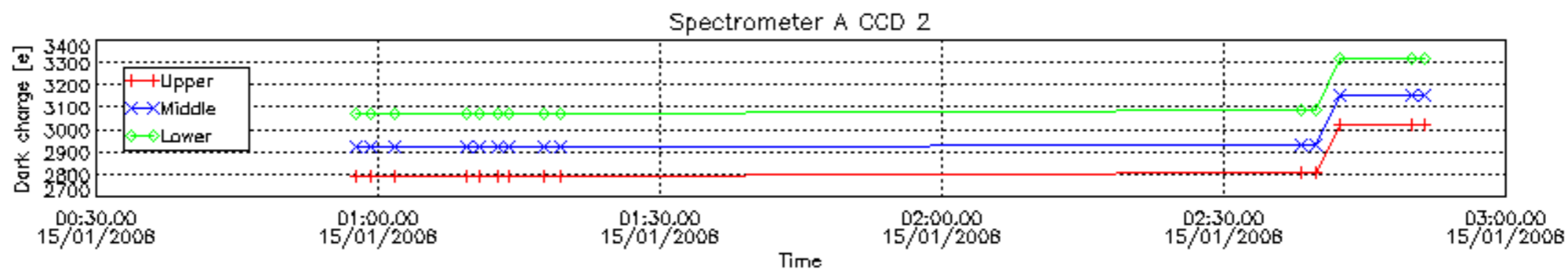
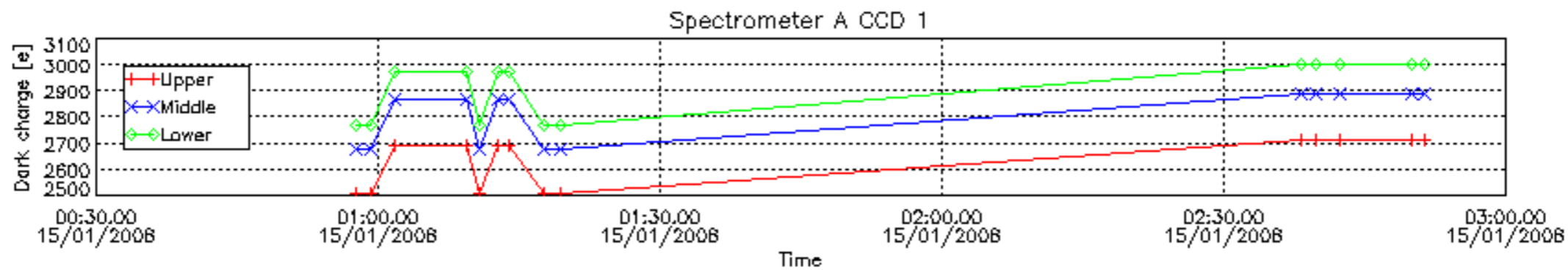
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

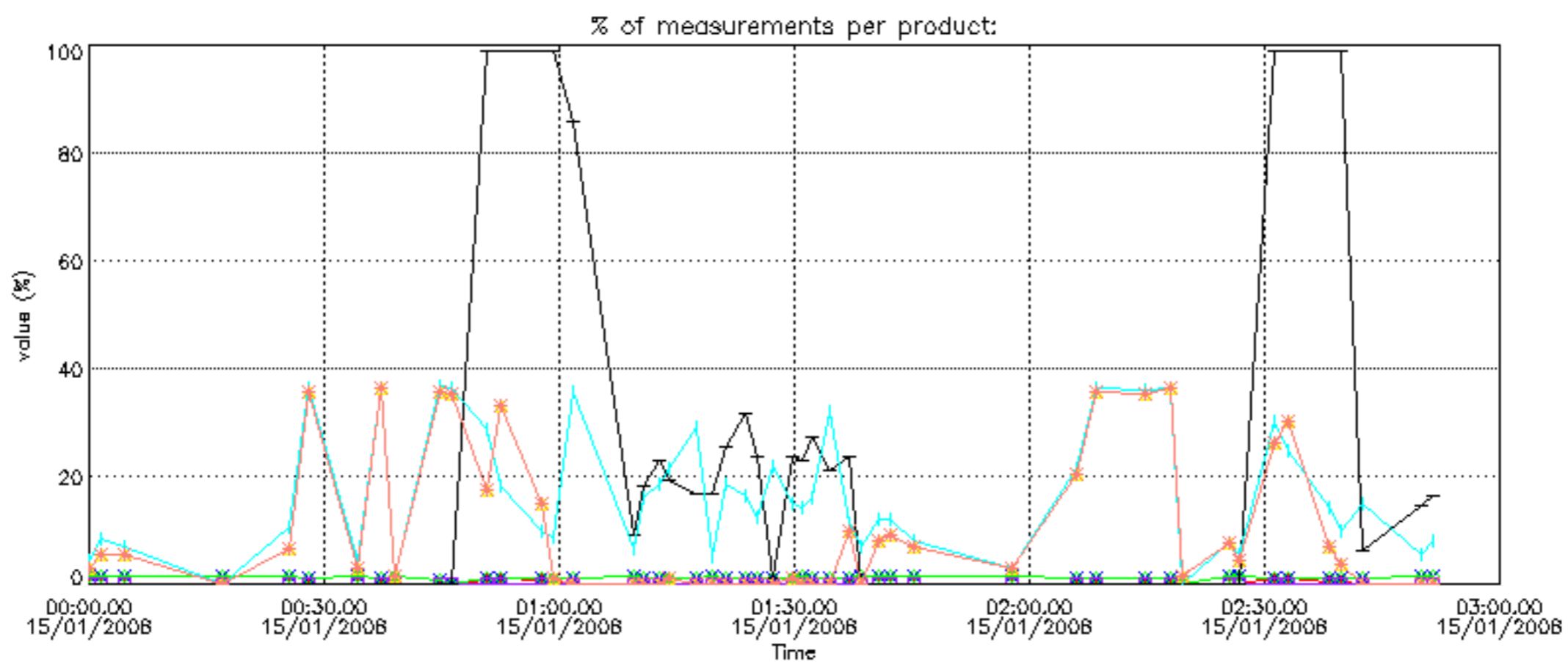
Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080109_125406_20080107_000000_20100101_000000	1	15-JAN-2008 00:00:02
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	15-JAN-2008 00:00:02
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-JAN-2008 00:00:02
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	15-JAN-2008 00:00:02
ECMWF_FILE	AUX_ECF_AXNECM20080114_073110_20080114_210000_20080115_090000	1	15-JAN-2008 00:00:02
OPTIONAL_ECMWF_FILE	MISSING	1	15-JAN-2008 00:00:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080114_212318_000057382065_00100_30715_4950.N1	1	15-JAN-2008 00:00:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080114_230415_000057382065_00101_30716_4951.N1	12	15-JAN-2008 00:50:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080115_004512_000054202065_00102_30717_4952.N1	42	15-JAN-2008 02:25:28



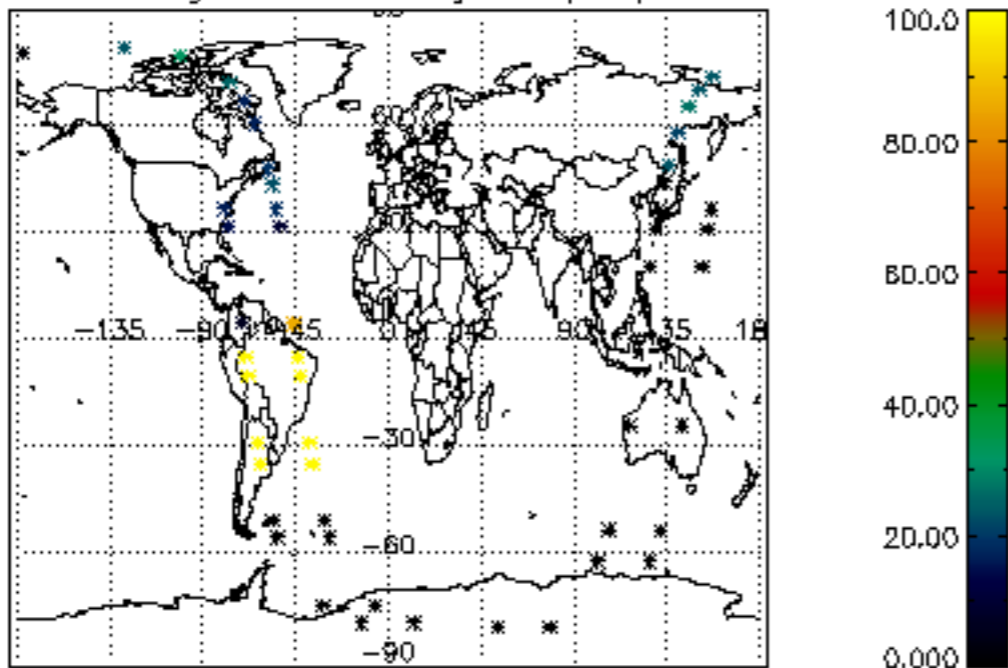




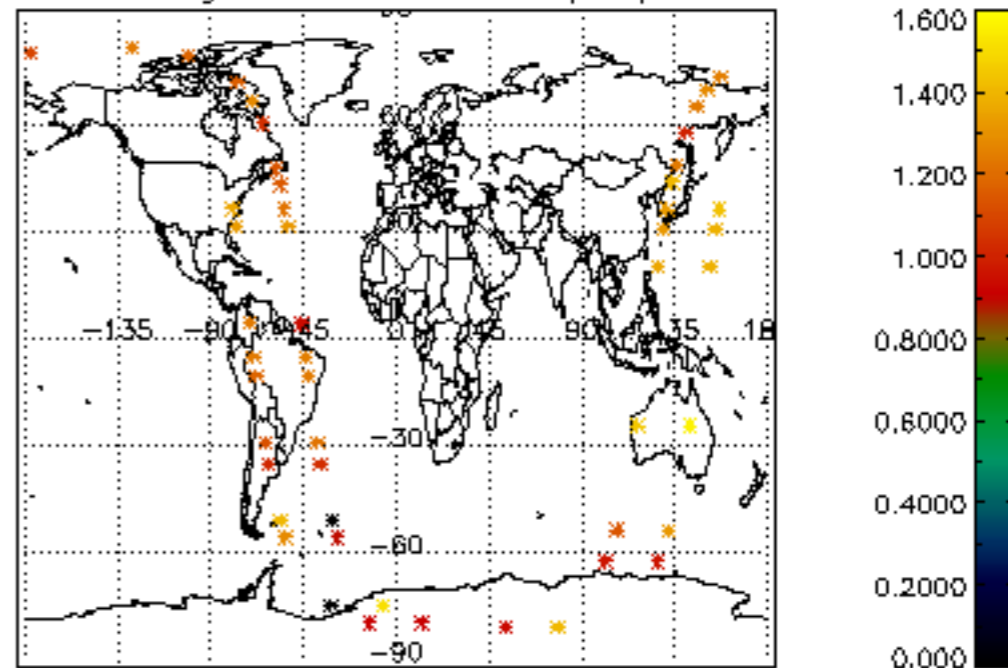




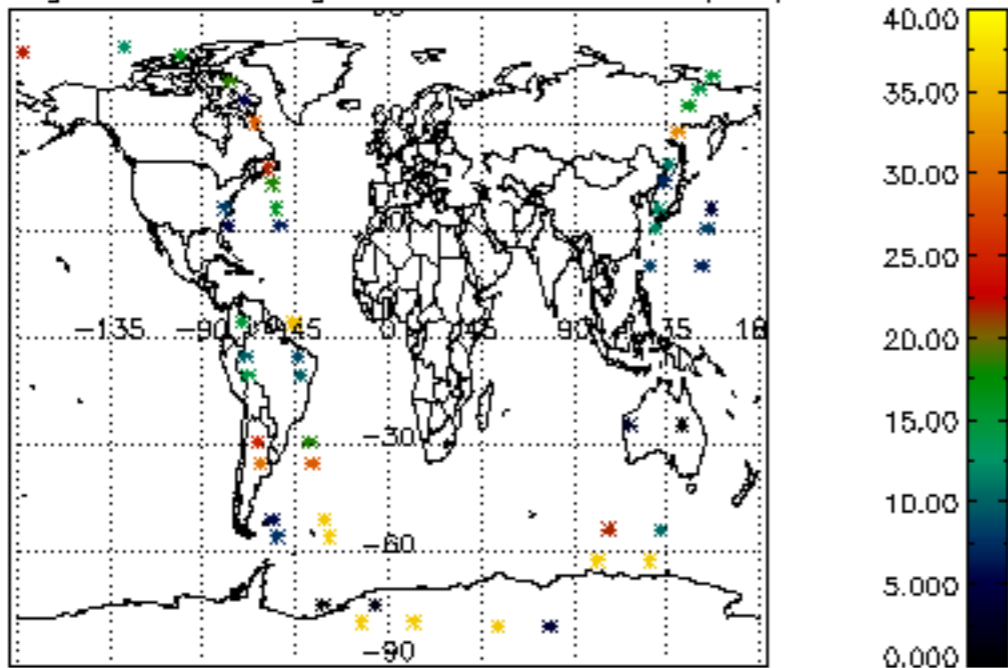
Percentage of cosmic ray hits per profile



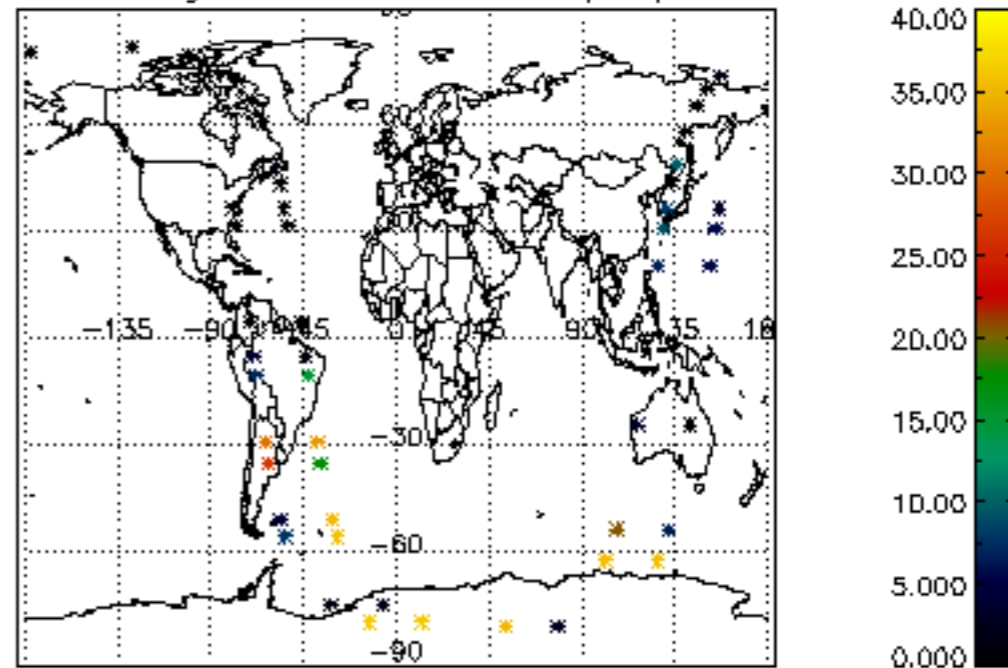
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

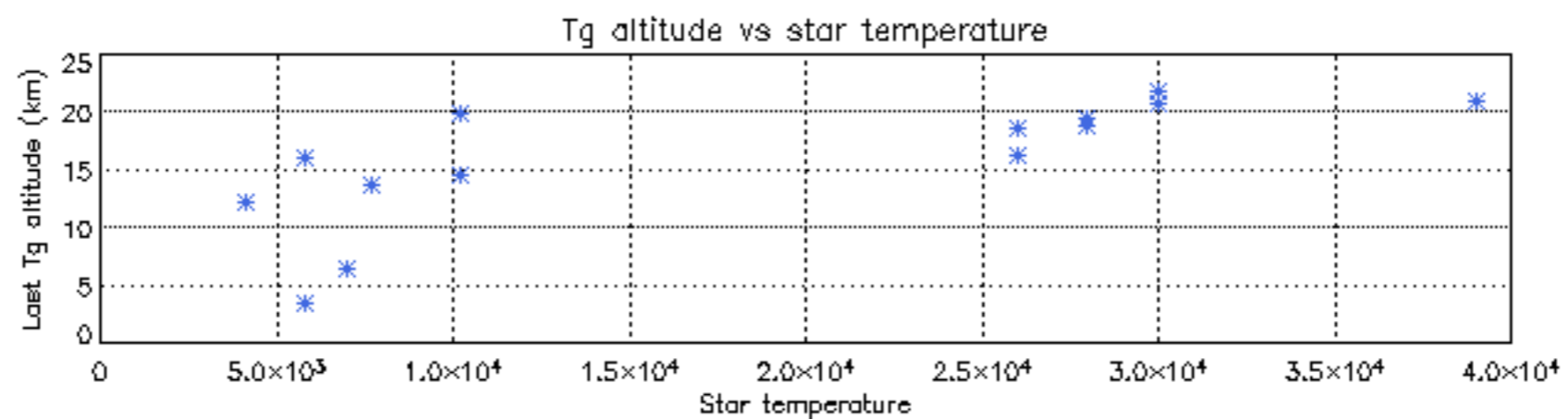
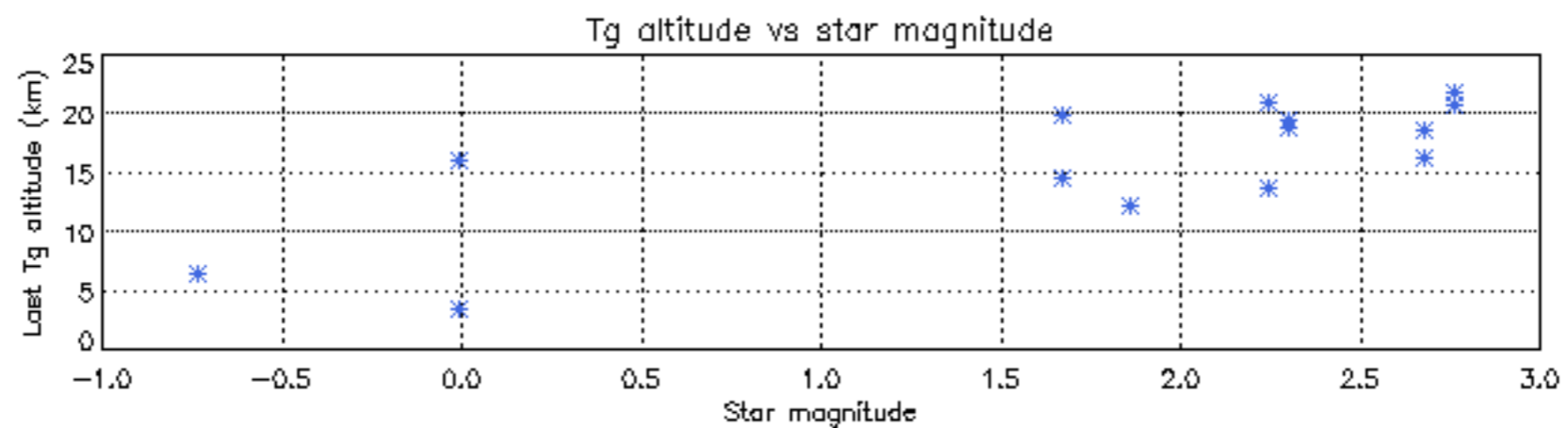
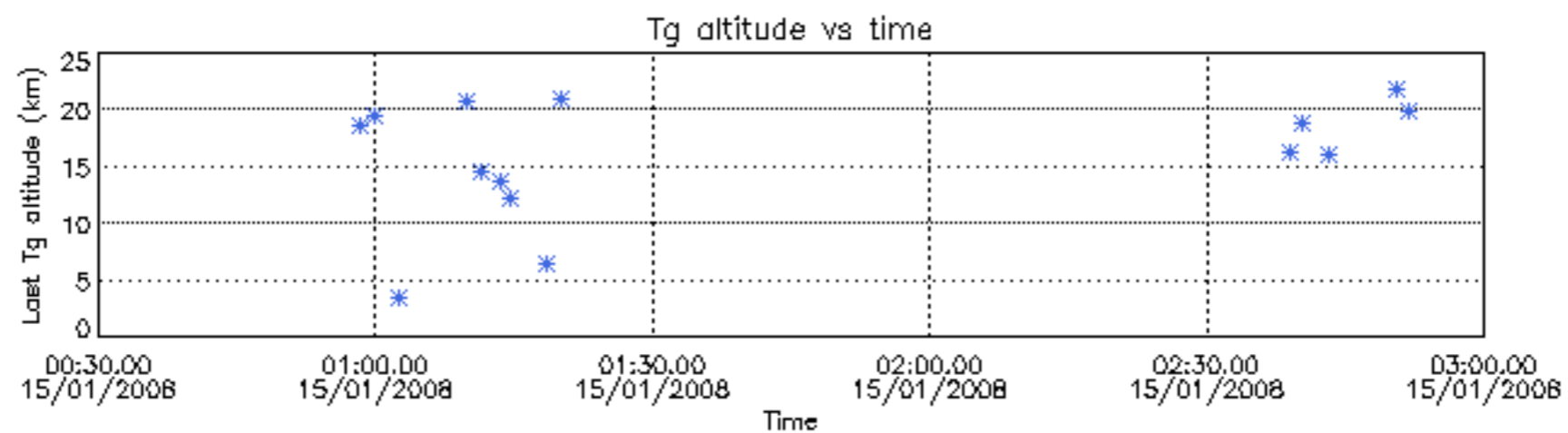


Percentage of saturation errors per profile

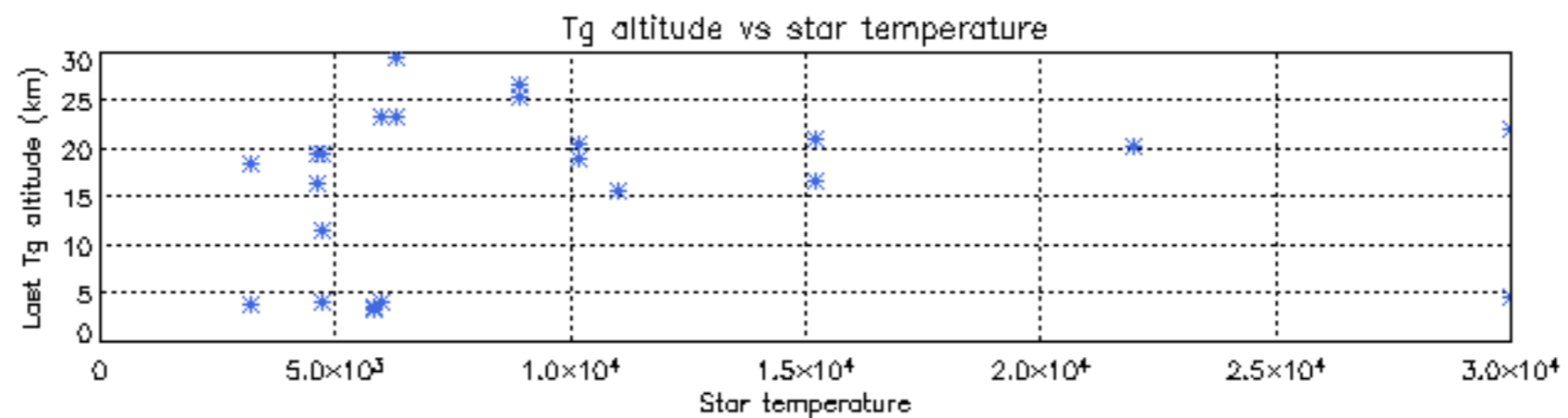
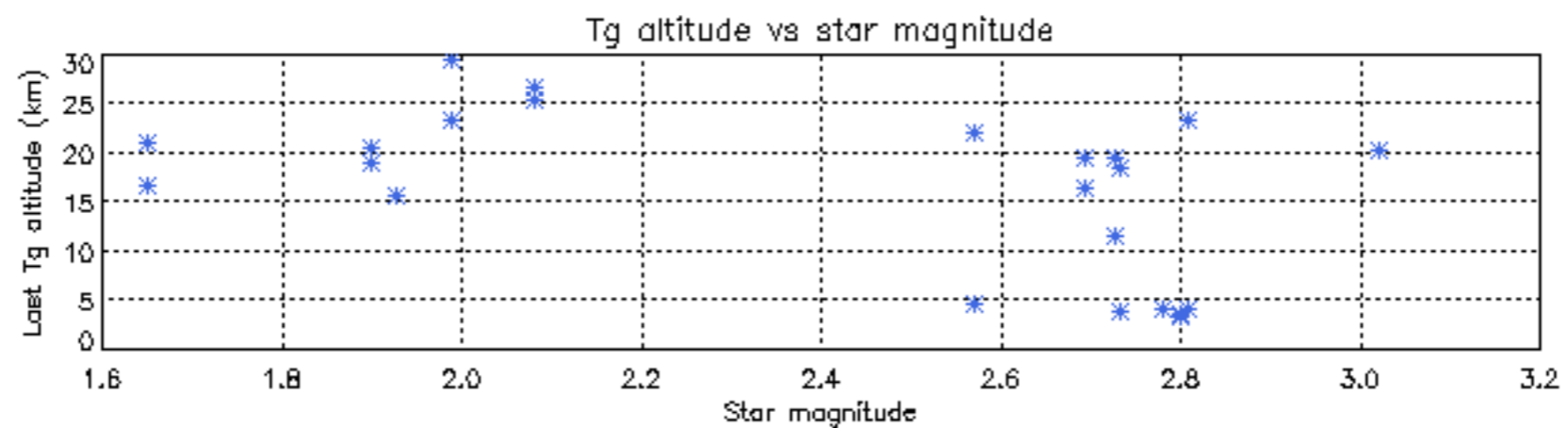
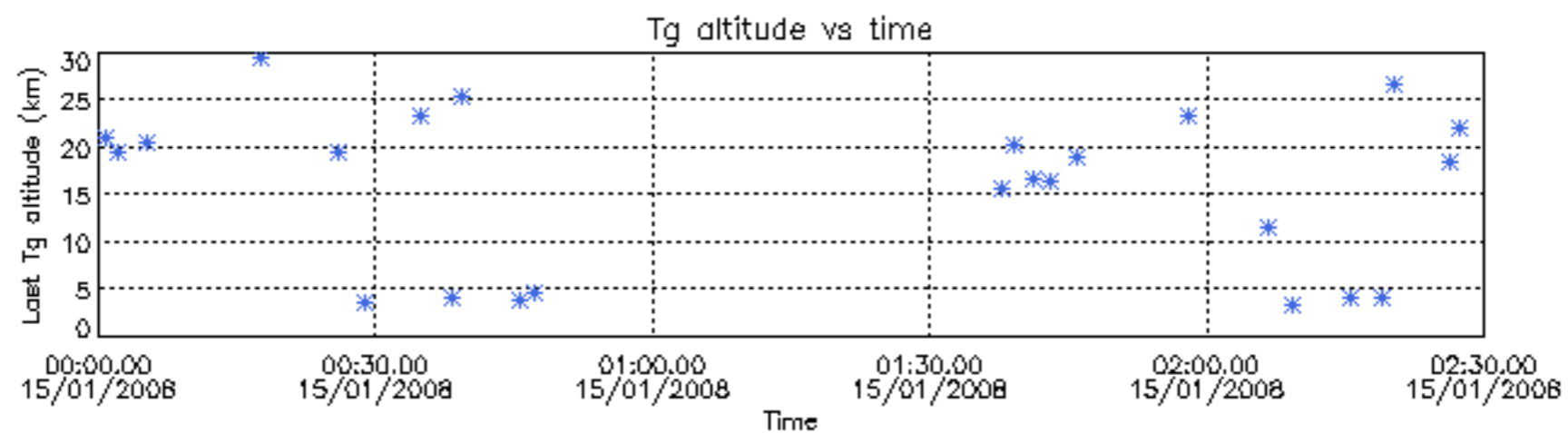




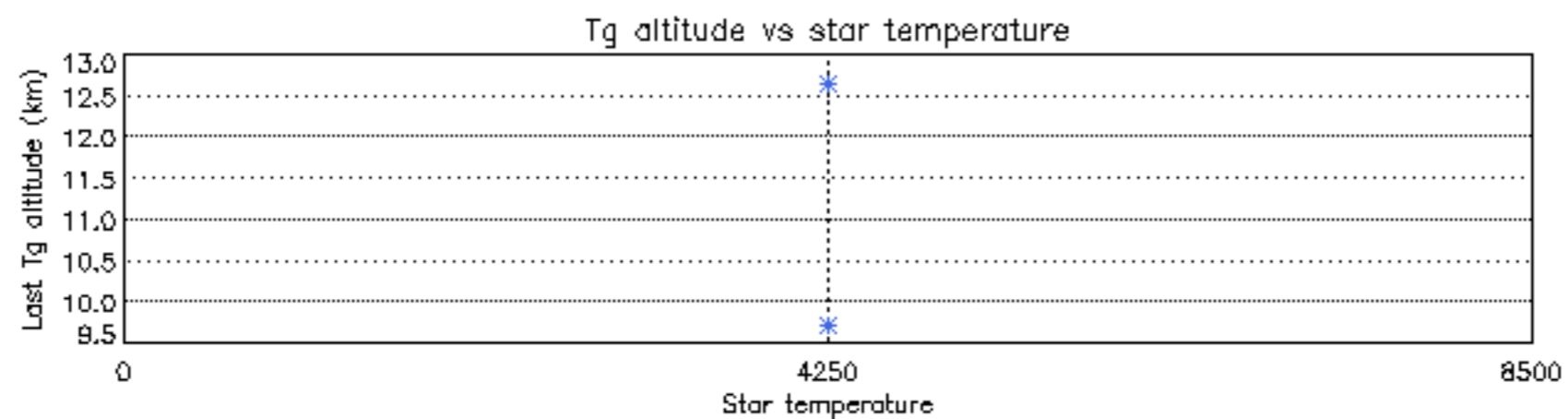
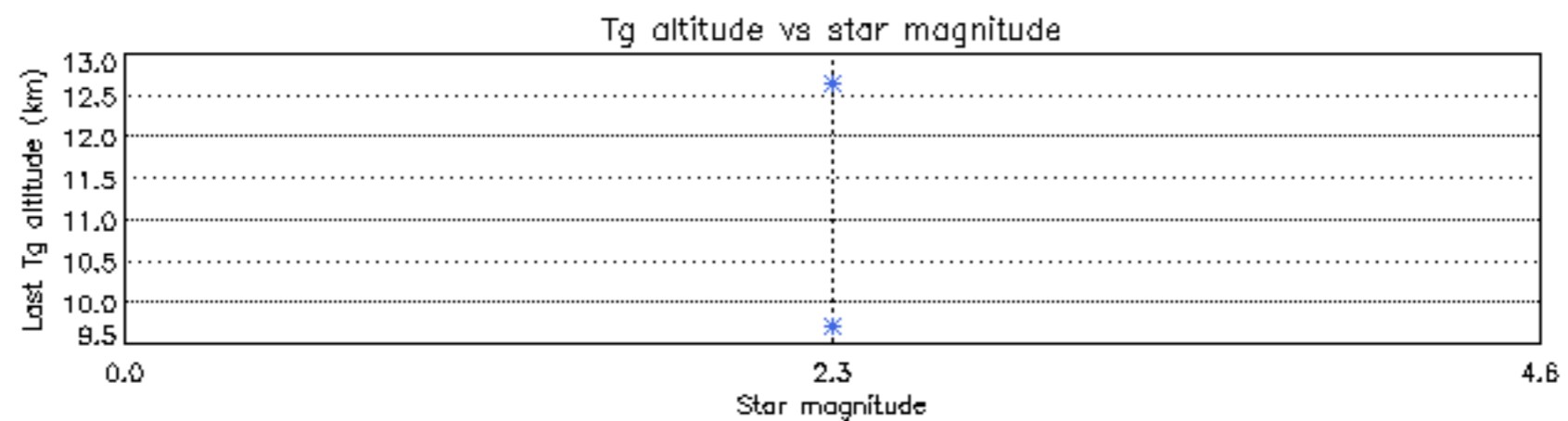
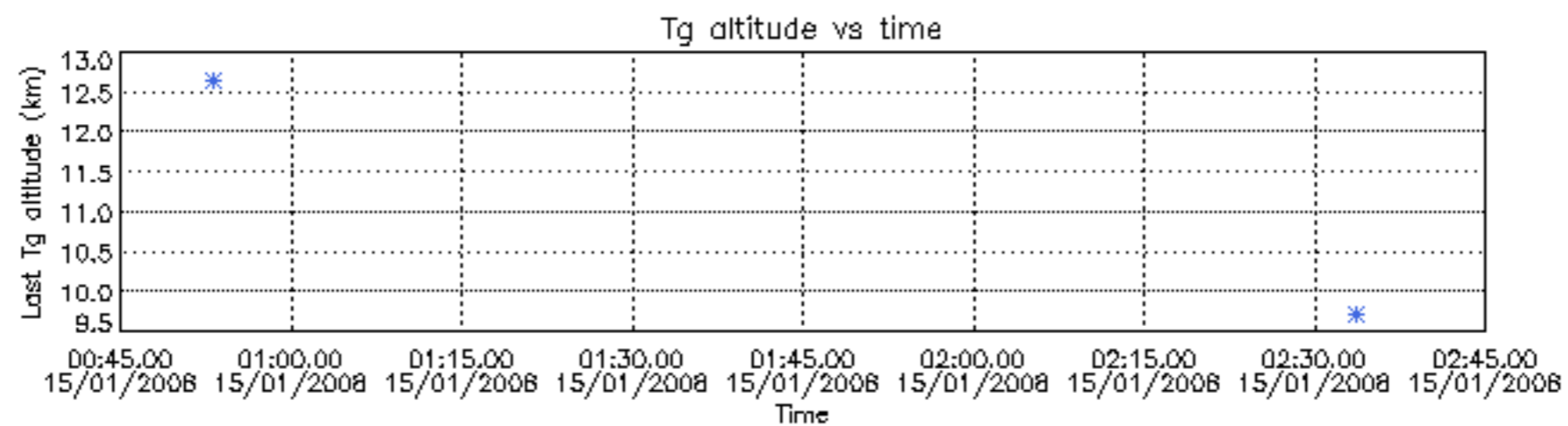
Tangent altitude at which the star is lost

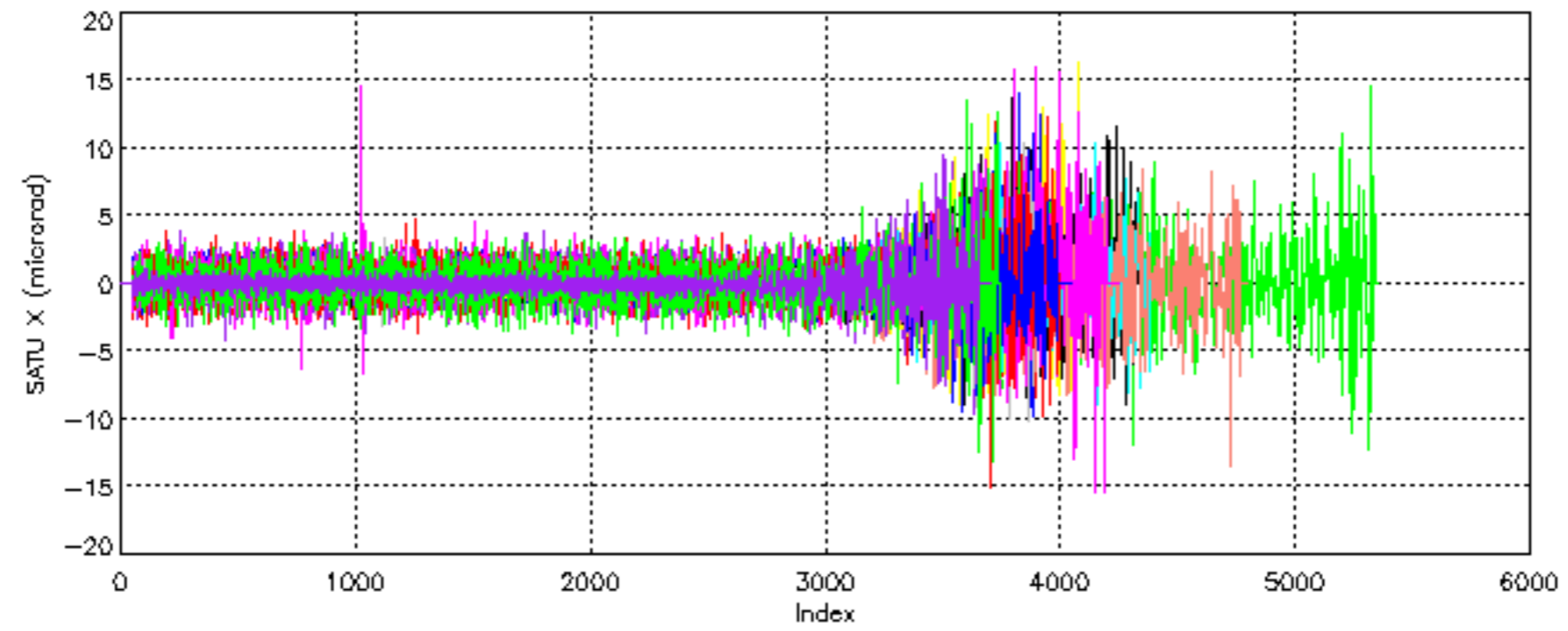


Tangent altitude at which the star is lost

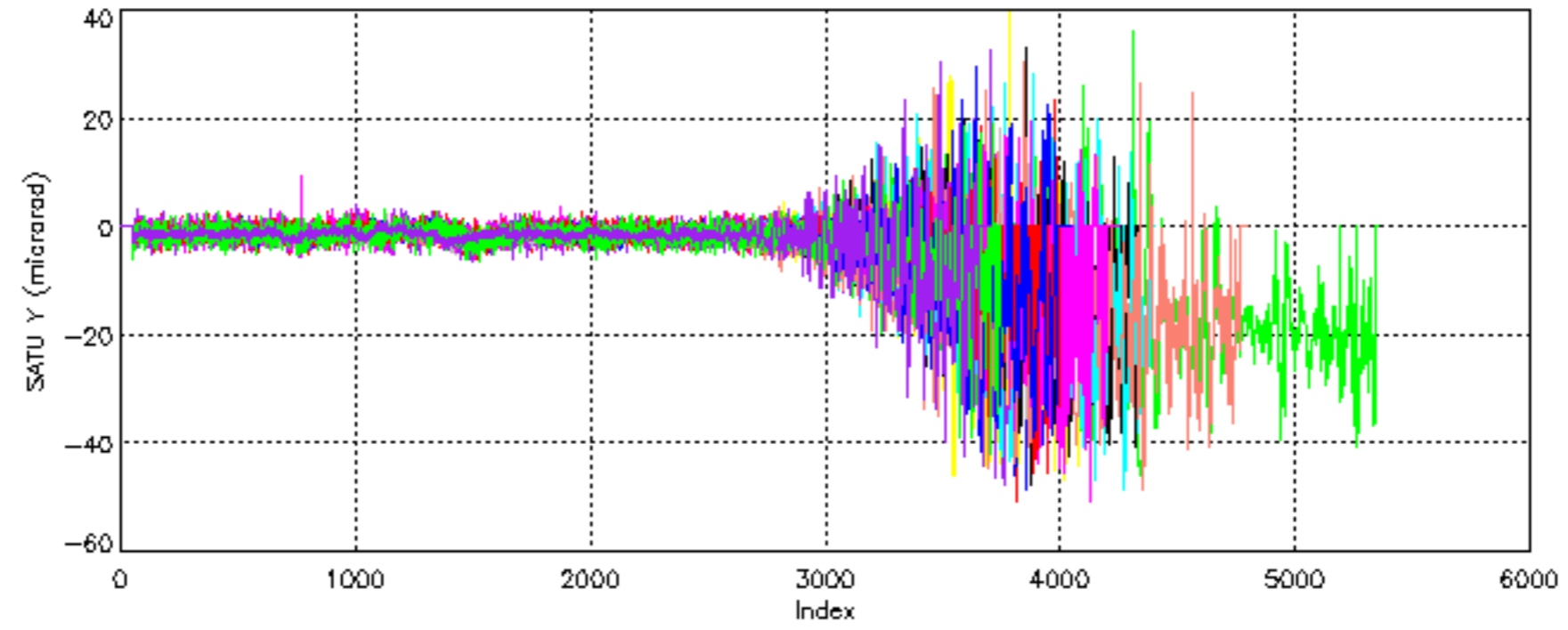


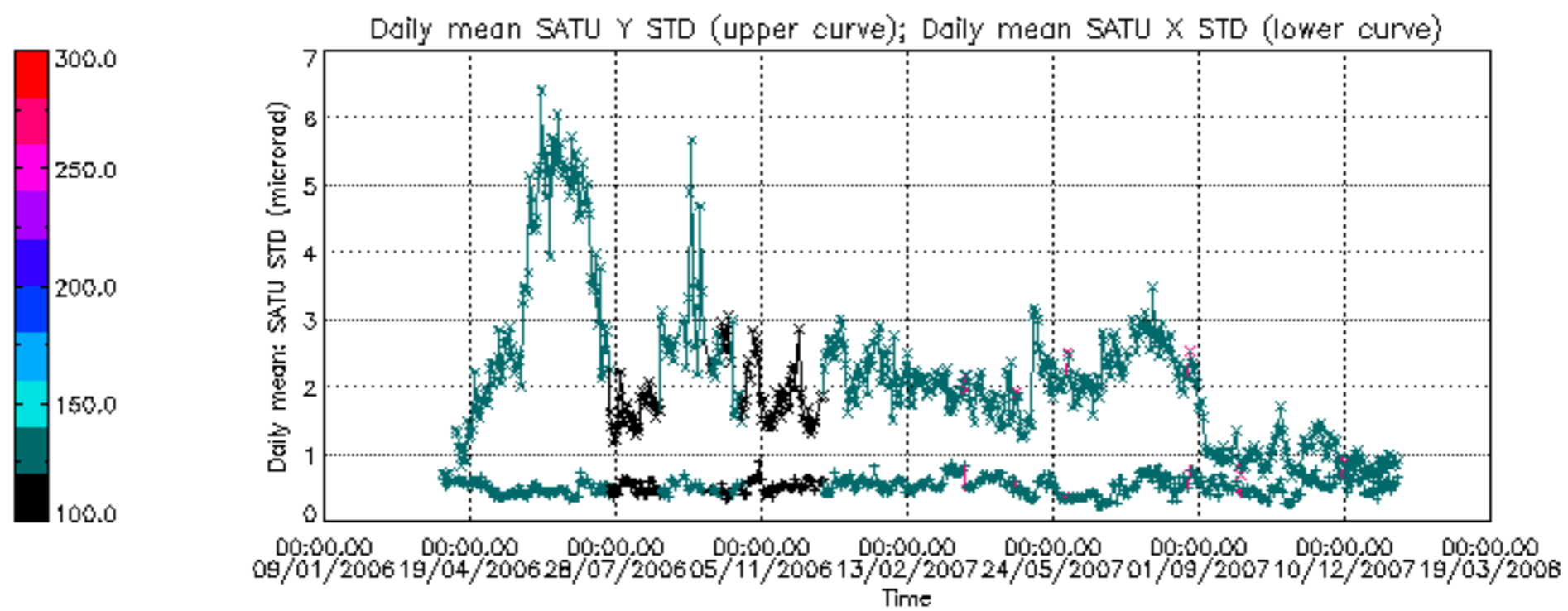
Tangent altitude at which the star is lost











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21; 1320.2; 01-JAN-2008 05:24:01; Dark ; 37.5; 108; Alp Col ; 2.65; 15200;occ; 75; 0;30520
22; 1569.1; 01-JAN-2008 05:28:10; Dark ; 43.0; 47; 2Bet CMA ; 1.98; 28000;occ; 86; 0;30520
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 26; 2202.8; 02-JAN-2008 05:07:07; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30534  
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 22; 6279.9; 03-JAN-2008 10:45:15; Dark ; 43.0; 12; Alp1Cru ; 0.77; 30000;occ; 86; 0;30551  
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 24; 6593.5; 03-JAN-2008 10:50:28; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30551  
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 18; 5686.3; 03-JAN-2008 12:15:57; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30552  
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 25; 6593.8; 03-JAN-2008 12:31:05; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30552  
 26; 6682.1; 03-JAN-2008 12:32:33; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30552  
 27; 6774.6; 03-JAN-2008 12:34:05; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;30552  
 28; 7022.4; 03-JAN-2008 12:38:13; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;30552  
 29; 7219.1; 03-JAN-2008 12:41:30; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30552  
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 31; 7609.7; 03-JAN-2008 12:48:00; Dark ; 17.0; 47; 2Bet CMA ; 1.98; 28000;occ; 34; 0;30552

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 4; 2032.0; 03-JAN-2008 12:55:39; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;30553  
 5; 2206.3; 03-JAN-2008 12:58:33; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30553  
 6; 2396.0; 03-JAN-2008 13:01:43; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30553  
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 19; 5857.9; 03-JAN-2008 13:59:24; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;30553



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 23; 6444.3; 03-JAN-2008 14:09:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30553  
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 25; 6682.6; 03-JAN-2008 14:13:09; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30553  
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 27; 6967.6; 03-JAN-2008 14:17:54; Dark ; 27.0; 34; Gam2Vel ; 1.79; 23000;occ; 54; 0;30553  
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 3; 1883.8; 03-JAN-2008 14:33:46; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;30554  
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 5; 2206.5; 03-JAN-2008 14:39:09; Dark ; 48.5; 13; 87Alp Tau ; 0.87; 3800;occ; 97; 0;30554  
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 6; 2206.4; 03-JAN-2008 16:19:45; Dark ; 50.5; 13; 87Alp Tau ; 0.87; 3800;occ; 101; 0;30555  
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13; 4428.5; 04-JAN-2008 08:02:11; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;30564  
14; 4553.4; 04-JAN-2008 08:04:15; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;30564  
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21; 5863.2; 04-JAN-2008 08:26:05; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;30564  
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23; 6048.7; 04-JAN-2008 08:29:11; Dark ; 41.0; 4; Alp1Cen ;-0.01; 5800;occ; 82; 0;30564  
24; 6286.7; 04-JAN-2008 08:33:09; Dark ; 49.5; 12; Alp1Cru ; 0.77; 30000;occ; 99; 0;30564  
25; 6447.5; 04-JAN-2008 08:35:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30564  
26; 6598.1; 04-JAN-2008 08:38:20; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30564  
27; 6688.4; 04-JAN-2008 08:39:50; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30564  
28; 6779.7; 04-JAN-2008 08:41:22; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;30564  
29; 7025.5; 04-JAN-2008 08:45:27; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;30564  
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31; 7387.8; 04-JAN-2008 08:51:30; Dark ; 28.0; 23; 21Eps CMA ; 1.50; 26000;occ; 56; 0;30564  
32; 7611.4; 04-JAN-2008 08:55:13; Dark ; 41.5; 47; 2Bet CMA ; 1.98; 28000;occ; 83; 0;30564

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5; 2395.5; 04-JAN-2008 09:08:53; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30565  
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8; 2690.3; 04-JAN-2008 09:13:48; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;30565  
9; 3423.8; 04-JAN-2008 09:26:02; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;30565  
10; 3686.8; 04-JAN-2008 09:30:25; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30565  
11; 3923.6; 04-JAN-2008 09:34:22; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30565  
12; 4055.6; 04-JAN-2008 09:36:34; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30565  
13; 4428.7; 04-JAN-2008 09:42:47; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30565  
14; 4553.6; 04-JAN-2008 09:44:52; Bright; 38.5; 67; 5Alp CrB ; 2.22; 11000;occ; 77; 0;30565  
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16; 5040.4; 04-JAN-2008 09:52:58; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;30565  
17; 5214.0; 04-JAN-2008 09:55:52; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;30565  
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19; 5690.4; 04-JAN-2008 10:03:48; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;30565  
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21; 5863.6; 04-JAN-2008 10:06:42; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;30565  
22; 5959.1; 04-JAN-2008 10:08:17; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30565  
23; 6049.0; 04-JAN-2008 10:09:47; Dark ; 40.5; 4; Alp1Cen ;-0.01; 5800;occ; 81; 0;30565  
24; 6287.3; 04-JAN-2008 10:13:45; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30565  
25; 6447.8; 04-JAN-2008 10:16:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30565  
26; 6598.4; 04-JAN-2008 10:18:56; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30565  
27; 6688.9; 04-JAN-2008 10:20:27; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30565  
28; 6780.1; 04-JAN-2008 10:21:58; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;30565  
29; 7025.6; 04-JAN-2008 10:26:04; Dark ; 44.0; 2; Alp Car ;-0.74; 7000;occ; 88; 0;30565  
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31; 7387.9; 04-JAN-2008 10:32:06; Dark ; 35.0; 23; 21Eps CMA ; 1.50; 26000;occ; 70; 0;30565  
32; 7611.4; 04-JAN-2008 10:35:49; Dark ; 42.0; 47; 2Bet CMA ; 1.98; 28000;occ; 84; 0;30565

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4; 2031.5; 04-JAN-2008 10:43:25; Dark ; 45.0; 14; 58Alp Ori ; 0.87; 3000;occ; 90; 0;30566  
5; 2208.6; 04-JAN-2008 10:46:22; Bright; 42.0; 13; 87Alp Tau ; 0.87; 3800;occ; 84; 0;30566  
6; 2395.4; 04-JAN-2008 10:49:29; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30566

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9; 2690.2; 04-JAN-2008 10:54:24; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30566
10; 3423.8; 04-JAN-2008 11:06:38; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;30566
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24; 5959.9; 04-JAN-2008 11:48:54; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30566
25; 6049.3; 04-JAN-2008 11:50:23; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;30566
26; 6287.7; 04-JAN-2008 11:54:22; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30566
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28; 6598.7; 04-JAN-2008 11:59:33; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30566
29; 6689.3; 04-JAN-2008 12:01:03; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30566
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32; 7223.8; 04-JAN-2008 12:09:58; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;30566
33; 7388.2; 04-JAN-2008 12:12:42; Dark ; 35.0; 23; 21Eps CMA ; 1.50; 26000;occ; 70; 0;30566
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7; 2474.8; 04-JAN-2008 12:31:24; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;30567
8; 2557.8; 04-JAN-2008 12:32:47; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;30567
9; 2690.2; 04-JAN-2008 12:35:00; Bright; 37.5; 6; 13Alp Aur ; 0.08; 3400;occ; 75; 0;30567
10; 3423.8; 04-JAN-2008 12:47:13; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;30567
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12; 3923.8; 04-JAN-2008 12:55:34; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30567
13; 4056.0; 04-JAN-2008 12:57:46; Bright; 48.0; 130; 23Bet Dra ; 2.80; 5800;occ; 96; 0;30567
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7; 13.9; 04-JAN-2008 13:30:59; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;30568
8; 252.4; 04-JAN-2008 13:34:58; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30568
9; 412.5; 04-JAN-2008 13:37:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30568
10; 563.3; 04-JAN-2008 13:40:09; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30568
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12; 745.0; 04-JAN-2008 13:43:11; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;30568
13; 990.3; 04-JAN-2008 13:47:16; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;30568
14; 1188.4; 04-JAN-2008 13:50:34; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;30568
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7; 2474.9; 04-JAN-2008 14:12:00; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30568  
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29; 6690.5; 04-JAN-2008 15:22:16; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30568  
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8; 2475.0; 04-JAN-2008 15:52:36; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30569  
9; 2557.4; 04-JAN-2008 15:53:59; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;30569  
10; 2690.1; 04-JAN-2008 15:56:12; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;30569  
11; 3423.9; 04-JAN-2008 16:08:25; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;30569  
12; 3686.4; 04-JAN-2008 16:12:48; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;30569  
13; 3923.9; 04-JAN-2008 16:16:45; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30569  
14; 4056.4; 04-JAN-2008 16:18:58; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;30569  
15; 4429.5; 04-JAN-2008 16:25:11; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;30569  
16; 4554.5; 04-JAN-2008 16:27:16; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;30569  
17; 4905.0; 04-JAN-2008 16:33:06; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;30569  
18; 5041.7; 04-JAN-2008 16:35:23; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30569  
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  
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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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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  
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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  
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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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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  
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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  
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19; 4905.5; 04-JAN-2008 19:54:19; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;30571  
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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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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
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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
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13; 1354.3; 05-JAN-2008 01:37:31; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;30575
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17; 2031.3; 05-JAN-2008 01:48:48; Dark ; 49.0; 14; 58Alp Ori ; 0.87; 3000;occ; 98; 0;30575
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19; 2395.3; 05-JAN-2008 01:54:52; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30575
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23; 3423.7; 05-JAN-2008 02:12:01; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 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
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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
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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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 25; 6295.0; 05-JAN-2008 11:22:52; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30580  
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 28; 6696.6; 05-JAN-2008 11:29:33; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;30580  
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13; 4058.4; 05-JAN-2008 14:06:47; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30582
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25; 6793.0; 06-JAN-2008 14:20:45; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;30596
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27; 7233.9; 06-JAN-2008 14:28:06; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30596
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8; 2477.3; 06-JAN-2008 14:49:25; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30597
9; 2689.6; 06-JAN-2008 14:52:57; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30597
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13; 4060.8; 06-JAN-2008 15:15:48; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;30597
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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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 9; 2689.5; 06-JAN-2008 16:33:33; Bright; 37.0; 6; 13Alp Aur ; 0.08; 3400;occ; 74; 0;30598  
 10; 3424.0; 06-JAN-2008 16:45:48; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30598  
 11; 3682.9; 06-JAN-2008 16:50:06; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;30598  
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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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 3; 1360.4; 06-JAN-2008 17:52:00; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;30599  
 4; 1580.2; 06-JAN-2008 17:55:40; Dark ; 41.5; 47; 2Bet CMA ; 1.98; 28000;occ; 83; 0;30599  
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 12; 3424.0; 06-JAN-2008 18:26:24; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30599  
 13; 3682.7; 06-JAN-2008 18:30:42; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30599  
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 18; 4915.2; 06-JAN-2008 18:51:15; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;30599  
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 22; 5791.4; 06-JAN-2008 19:05:51; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30599  
 23; 5881.1; 06-JAN-2008 19:07:21; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30599  
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15; 4061.1; 06-JAN-2008 20:17:37; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30600
16; 4434.1; 06-JAN-2008 20:23:50; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30600
17; 4612.7; 06-JAN-2008 20:26:48; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;30600
18; 4915.5; 06-JAN-2008 20:31:51; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30600
19; 5050.4; 06-JAN-2008 20:34:06; Bright; 42.5; 120; 1Del Oph ; 2.73; 3200;occ; 85; 0;30600
20; 5377.3; 06-JAN-2008 20:39:33; Dark ; 42.0; 80; 7Del Sco ; 2.32; 30000;occ; 84; 0;30600
21; 5703.2; 06-JAN-2008 20:44:59; Dark ; 35.5; 131; Gam Lup ; 2.80; 26000;occ; 71; 0;30600
22; 5791.8; 06-JAN-2008 20:46:27; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30600
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23; 3924.3; 06-JAN-2008 23:36:32; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;30602
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5; 26.1; 07-JAN-2008 00:12:09; Dark ; 51.5; 4; Alp1Cen ; -0.01; 5800;occ; 103; 0;30603
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20; 1362.3; 07-JAN-2008 07:16:49; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;30607
21; 1581.5; 07-JAN-2008 07:20:29; Dark ; 42.5; 47; 2Bet CMa ; 1.98; 28000;occ; 85; 0;30607
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 9; 3681.7; 07-JAN-2008 07:55:29; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;30607
10; 3924.6; 07-JAN-2008 07:59:32; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30607
11; 4062.2; 07-JAN-2008 08:01:49; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30607
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
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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  
10; 3924.6; 07-JAN-2008 09:40:08; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 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  
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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  
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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  
15; 5053.2; 07-JAN-2008 11:39:32; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;30609  
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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  
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 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  
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 25; 6711.9; 07-JAN-2008 13:47:47; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30610  
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 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  
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 17; 5381.4; 07-JAN-2008 15:06:12; Dark ; 40.0; 80; 7Del Sco ; 2.32; 30000;occ; 80; 0;30611  
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 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  
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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  
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 21; 5910.7; 10-JAN-2008 13:40:10; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;30653  
 22; 6081.4; 10-JAN-2008 13:43:01; Dark ; 39.0; 4; Alp1Cen ;-0.01; 5800;occ; 78; 0;30653  
 23; 6294.8; 10-JAN-2008 13:46:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30653  
 24; 6533.3; 10-JAN-2008 13:50:33; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;30653  
 25; 6628.6; 10-JAN-2008 13:52:08; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30653  
 26; 6732.9; 10-JAN-2008 13:53:53; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30653  
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 28; 7045.6; 10-JAN-2008 13:59:05; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;30653  
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 9; 3424.6; 10-JAN-2008 14:39:20; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;30654  
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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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 9; 594.7; 10-JAN-2008 23:55:46; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30660  
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 13; 1217.3; 11-JAN-2008 00:06:08; Dark ; 42.0; 117; Pi Pup ; 2.71; 3800;occ; 84; 0;30660  
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 19; 2033.2; 11-JAN-2008 00:19:44; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;30660  
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16; 596.1; 11-JAN-2008 06:38:11; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;30664
17; 701.9; 11-JAN-2008 06:39:57; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30664
18; 783.5; 11-JAN-2008 06:41:18; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;30664
19; 1011.7; 11-JAN-2008 06:45:07; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;30664
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21; 1375.7; 11-JAN-2008 06:51:11; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;30664
22; 1462.8; 11-JAN-2008 06:52:38; Dark ; 40.5; 179; 240mi2CMA ; 3.03; 24000;occ; 81; 0;30664
23; 1599.8; 11-JAN-2008 06:54:55; Dark ; 47.0; 1; 9Alp CMA ;-1.44; 11000;occ; 94; 0;30664
24; 1748.0; 11-JAN-2008 06:57:23; Dark ; 7.0; 56; 53Kap Ori ; 2.07; 30000;occ; 14; 0;30664

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2;	1895.5;	11-JAN-2008	06:59:50;	Dark	;	42.0;	30;	46Eps Ori	;	1.69;	30000;occ;	84;	0;	30664
3;	2033.5;	11-JAN-2008	07:02:08;	Dark	;	49.5;	14;	58Alp Ori	;	0.87;	3000;occ;	99;	0;	30664
4;	2269.8;	11-JAN-2008	07:06:05;	Bright;		40.0;	176;	23Zet Tau	;	3.02;	22000;occ;	80;	0;	30664
5;	2397.7;	11-JAN-2008	07:08:13;	Bright;		37.5;	28;	12Bet Tau	;	1.65;	15200;occ;	75;	0;	30664
6;	2486.4;	11-JAN-2008	07:09:41;	Bright;		37.0;	114;	3Iot Aur	;	2.69;	4600;occ;	74;	0;	30664
7;	2676.6;	11-JAN-2008	07:12:52;	Bright;		36.0;	42;	34Bet Aur	;	1.90;	10200;occ;	72;	0;	30664
8;	3424.8;	11-JAN-2008	07:25:20;	Bright;		37.0;	49;	1Alp UMi	;	1.99;	6300;occ;	74;	0;	30664
9;	3674.0;	11-JAN-2008	07:29:29;	Bright;		35.5;	60;	7Bet UMi	;	2.08;	3950;occ;	71;	0;	30664
10;	3924.5;	11-JAN-2008	07:33:39;	Bright;		36.0;	119;	14Eta Dra	;	2.73;	4700;occ;	72;	0;	30664
11;	4069.8;	11-JAN-2008	07:36:05;	Bright;		35.5;	130;	23Bet Dra	;	2.80;	5800;occ;	71;	0;	30664
12;	4444.0;	11-JAN-2008	07:42:19;	Bright;		35.5;	133;	40Zet Her	;	2.81;	6000;occ;	71;	0;	30664
13;	4625.8;	11-JAN-2008	07:45:21;	Bright;		35.0;	127;	27Bet Her	;	2.78;	4700;occ;	70;	0;	30664
14;	5071.9;	11-JAN-2008	07:52:47;	Bright;		37.5;	120;	1Del Oph	;	2.73;	3200;occ;	75;	0;	30664
15;	5158.6;	11-JAN-2008	07:54:14;	Bright;		34.5;	98;	13Zet Oph	;	2.57;	30000;occ;	69;	0;	30664
16;	5349.6;	11-JAN-2008	07:57:25;	Dark	;	41.0;	97;	8Bet1Sco	;	2.56;	30000;occ;	82;	0;	30664
17;	5425.1;	11-JAN-2008	07:58:40;	Dark	;	46.5;	16;	21Alp Sco	;	1.02;	3000;occ;	93;	0;	30664
18;	5730.2;	11-JAN-2008	08:03:45;	Dark	;	40.0;	131;	Gam Lup	;	2.80;	26000;occ;	80;	0;	30664
19;	5826.8;	11-JAN-2008	08:05:22;	Dark	;	38.0;	109;	Bet Lup	;	2.68;	26000;occ;	76;	0;	30664
20;	5917.3;	11-JAN-2008	08:06:52;	Dark	;	41.0;	78;	Alp Lup	;	2.30;	28000;occ;	82;	0;	30664
21;	6028.8;	11-JAN-2008	08:08:44;	Dark	;	31.0;	95;	Zet Cen	;	2.55;	26000;occ;	62;	0;	30664
22;	6085.9;	11-JAN-2008	08:09:41;	Dark	;	43.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	86;	0;	30664
23;	6297.6;	11-JAN-2008	08:13:13;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30664
24;	6538.9;	11-JAN-2008	08:17:14;	Dark	;	37.0;	124;	The Car	;	2.76;	30000;occ;	74;	0;	30664
25;	6632.4;	11-JAN-2008	08:18:47;	Dark	;	37.5;	29;	Bet Car	;	1.67;	10200;occ;	75;	0;	30664
26;	6738.3;	11-JAN-2008	08:20:33;	Dark	;	38.5;	71;	Iot Car	;	2.25;	7700;occ;	77;	0;	30664
27;	6819.8;	11-JAN-2008	08:21:55;	Dark	;	46.5;	41;	Eps Car	;	1.86;	4100;occ;	93;	0;	30664
28;	7047.9;	11-JAN-2008	08:25:43;	Dark	;	49.5;	2;	Alp Car	;	-0.74;	7000;occ;	99;	0;	30664
29;	7254.8;	11-JAN-2008	08:29:10;	Dark	;	42.5;	117;	Pi Pup	;	2.71;	3800;occ;	85;	0;	30664
30;	7411.9;	11-JAN-2008	08:31:47;	Dark	;	43.5;	23;	21Eps CMa	;	1.50;	26000;occ;	87;	0;	30664
31;	7498.9;	11-JAN-2008	08:33:14;	Dark	;	39.0;	179;	240mi2CMa	;	3.03;	24000;occ;	78;	0;	30664
32;	7635.8;	11-JAN-2008	08:35:31;	Dark	;	47.5;	1;	9Alp CMa	;	-1.44;	11000;occ;	95;	0;	30664
33;	7784.2;	11-JAN-2008	08:37:59;	Dark	;	5.5;	56;	53Kap Ori	;	2.07;	30000;occ;	11;	0;	30664

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2;	1895.6;	11-JAN-2008	08:40:27;	Dark	;	41.5;	30;	46Eps Ori	;	1.69;	30000;occ;	83;	0;	30665
3;	2033.6;	11-JAN-2008	08:42:45;	Dark	;	52.0;	14;	58Alp Ori	;	0.87;	3000;occ;	104;	0;	30665
4;	2269.9;	11-JAN-2008	08:46:41;	Bright;		35.0;	176;	23Zet Tau	;	3.02;	22000;occ;	70;	0;	30665
5;	2397.8;	11-JAN-2008	08:48:49;	Bright;		37.0;	28;	12Bet Tau	;	1.65;	15200;occ;	74;	0;	30665
6;	2486.7;	11-JAN-2008	08:50:18;	Bright;		37.0;	114;	3Iot Aur	;	2.69;	4600;occ;	74;	0;	30665
7;	2676.3;	11-JAN-2008	08:53:27;	Bright;		37.0;	42;	34Bet Aur	;	1.90;	10200;occ;	74;	0;	30665
8;	3424.7;	11-JAN-2008	09:05:56;	Bright;		32.0;	49;	1Alp UMi	;	1.99;	6300;occ;	64;	0;	30665
9;	3673.8;	11-JAN-2008	09:10:05;	Bright;		39.5;	60;	7Bet UMi	;	2.08;	3950;occ;	79;	0;	30665
10;	3924.3;	11-JAN-2008	09:14:15;	Bright;		36.5;	119;	14Eta Dra	;	2.73;	4700;occ;	73;	0;	30665
11;	4069.9;	11-JAN-2008	09:16:41;	Bright;		34.0;	130;	23Bet Dra	;	2.80;	5800;occ;	68;	0;	30665
12;	4444.1;	11-JAN-2008	09:22:55;	Bright;		35.0;	133;	40Zet Her	;	2.81;	6000;occ;	70;	0;	30665
13;	4625.8;	11-JAN-2008	09:25:57;	Bright;		54.0;	127;	27Bet Her	;	2.78;	4700;occ;	108;	0;	30665
14;	5072.2;	11-JAN-2008	09:33:23;	Bright;		37.5;	120;	1Del Oph	;	2.73;	3200;occ;	75;	0;	30665
15;	5158.8;	11-JAN-2008	09:34:50;	Bright;		39.5;	98;	13Zet Oph	;	2.57;	30000;occ;	79;	0;	30665
16;	5349.8;	11-JAN-2008	09:38:01;	Dark	;	39.5;	97;	8Bet1Sco	;	2.56;	30000;occ;	79;	0;	30665
17;	5425.3;	11-JAN-2008	09:39:16;	Dark	;	46.0;	16;	21Alp Sco	;	1.02;	3000;occ;	92;	0;	30665
18;	5730.7;	11-JAN-2008	09:44:22;	Dark	;	37.5;	131;	Gam Lup	;	2.80;	26000;occ;	75;	0;	30665
19;	5827.4;	11-JAN-2008	09:45:58;	Dark	;	39.5;	109;	Bet Lup	;	2.68;	26000;occ;	79;	0;	30665
20;	5917.8;	11-JAN-2008	09:47:29;	Dark	;	39.5;	78;	Alp Lup	;	2.30;	28000;occ;	79;	0;	30665
21;	6029.6;	11-JAN-2008	09:49:21;	Dark	;	31.0;	95;	Zet Cen	;	2.55;	26000;occ;	62;	0;	30665
22;	6086.2;	11-JAN-2008	09:50:17;	Dark	;	40.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	80;	0;	30665
23;	6297.8;	11-JAN-2008	09:53:49;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30665
24;	6539.3;	11-JAN-2008	09:57:50;	Dark	;	39.0;	124;	The Car	;	2.76;	30000;occ;	78;	0;	30665
25;	6632.6;	11-JAN-2008	09:59:24;	Dark	;	35.5;	29;	Bet Car	;	1.67;	10200;occ;	71;	0;	30665
26;	6738.7;	11-JAN-2008	10:01:10;	Dark	;	39.0;	71;	Iot Car	;	2.25;	7700;occ;	78;	0;	30665
27;	6820.2;	11-JAN-2008	10:02:31;	Dark	;	46.0;	41;	Eps Car	;	1.86;	4100;occ;	92;	0;	30665
28;	7048.0;	11-JAN-2008	10:06:19;	Dark	;	51.0;	2;	Alp Car	;	-0.74;	7000;occ;	102;	0;	30665
29;	7255.0;	11-JAN-2008	10:09:46;	Dark	;	44.0;	117;	Pi Pup	;	2.71;	3800;occ;	88;	0;	30665
30;	7412.1;	11-JAN-2008	10:12:23;	Dark	;	43.0;	23;	21Eps CMa	;	1.50;	26000;occ;	86;	0;	30665
31;	7499.1;	11-JAN-2008	10:13:50;	Dark	;	41.0;	179;	240mi2CMa	;	3.03;	24000;occ;	82;	0;	30665
32;	7635.9;	11-JAN-2008	10:16:07;	Dark	;	46.5;	1;	9Alp CMa	;	-1.44;	11000;occ;	93;	0;	30665

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7; 2676.3; 11-JAN-2008 10:34:03; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30666
8; 3424.7; 11-JAN-2008 10:46:31; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30666
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12; 4444.3; 11-JAN-2008 11:03:31; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;30666
13; 4626.1; 11-JAN-2008 11:06:33; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;30666
14; 5072.6; 11-JAN-2008 11:13:59; Bright; 40.0; 120; 1Del Oph ; 2.73; 3200;occ; 80; 0;30666
15; 5159.1; 11-JAN-2008 11:15:26; Bright; 52.0; 98; 13Zet Oph ; 2.57; 30000;occ; 104; 0;30666
16; 5350.3; 11-JAN-2008 11:18:37; Dark ; 40.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 80; 0;30666
17; 5425.6; 11-JAN-2008 11:19:52; Dark ; 44.0; 16; 21Alp Sco ; 1.02; 3000;occ; 88; 0;30666
18; 5730.9; 11-JAN-2008 11:24:58; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;30666
19; 5827.9; 11-JAN-2008 11:26:35; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;30666
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21; 6030.2; 11-JAN-2008 11:29:57; Dark ; 26.0; 95; Zet Cen ; 2.55; 26000;occ; 52; 0;30666
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23; 6298.0; 11-JAN-2008 11:34:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30666
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28; 7048.2; 11-JAN-2008 11:46:55; Dark ; 43.0; 2; Alp Car ; -0.74; 7000;occ; 86; 0;30666
29; 7255.2; 11-JAN-2008 11:50:22; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;30666
30; 7412.2; 11-JAN-2008 11:52:59; Dark ; 43.0; 23; 21Eps CMa ; 1.50; 26000;occ; 86; 0;30666
31; 7499.3; 11-JAN-2008 11:54:26; Dark ; 40.5; 179; 240mi2CMa ; 3.03; 24000;occ; 81; 0;30666

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5; 2033.7; 11-JAN-2008 12:03:56; Dark ; 46.0; 14; 58Alp Ori ; 0.87; 3000;occ; 92; 0;30667
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31; 7255.6; 11-JAN-2008 13:30:58; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;30667
32; 7412.5; 11-JAN-2008 13:33:35; Dark ; 43.5; 23; 21Eps CMa ; 1.50; 26000;occ; 87; 0;30667
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13; 4444.6; 11-JAN-2008 14:24:43; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;30668  
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23; 3424.7; 12-JAN-2008 00:11:19; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30674  
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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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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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25;	4086.8;	27-JAN-2008	22:38:52;	Bright;		37.0;	130;	23Bet Dra	;	2.80;	5800;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
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23;	3427.2;	28-JAN-2008	00:08:29;	Bright;		36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	30903
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 3; 2190.9; 27-JAN-2008 12:03:41; Bright; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;30896

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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  
10; 4778.2; 27-JAN-2008 12:46:48; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;30896  
11; 4905.0; 27-JAN-2008 12:48:55; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;30896  
12; 5281.6; 27-JAN-2008 12:55:11; Dark ; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;30896  
13; 5526.8; 27-JAN-2008 12:59:17; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;30896  
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15; 5687.2; 27-JAN-2008 13:01:57; Dark ; 40.5; 40; The Sco ; 1.86; 7100;occ; 81; 0;30896  
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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5; 2298.8; 27-JAN-2008 13:46:04; Bright; 39.5; 151; 13Mu Gem ; 2.89; 3000;occ; 79; 0;30897  
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7; 2681.0; 27-JAN-2008 13:52:27; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30897  
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13; 5282.1; 27-JAN-2008 14:35:48; Dark ; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;30897  
14; 5527.5; 27-JAN-2008 14:39:53; Dark ; 53.5; 16; 21Alp Sco ; 1.02; 3000;occ; 107; 0;30897  
15; 5608.7; 27-JAN-2008 14:41:14; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;30897  
16; 5687.6; 27-JAN-2008 14:42:33; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;30897  
17; 6102.6; 27-JAN-2008 14:49:28; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;30897  
18; 6193.5; 27-JAN-2008 14:50:59; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;30897  
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  
24; 7097.8; 27-JAN-2008 15:06:03; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;30897  
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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3; 1504.9; 27-JAN-2008 15:13:26; Dark ; 38.0; 179; 240mi2CMa ; 3.03; 24000;occ; 76; 0;30898  
4; 1634.1; 27-JAN-2008 15:15:36; Dark ; 45.5; 1; 9Alp CMa ; -1.44; 11000;occ; 91; 0;30898  
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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  
13; 4778.8; 27-JAN-2008 16:08:00; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;30898  
14; 4905.6; 27-JAN-2008 16:10:07; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;30898  
15; 5282.5; 27-JAN-2008 16:16:24; Dark ; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;30898  
16; 5528.0; 27-JAN-2008 16:20:30; Dark ; 57.0; 16; 21Alp Sco ; 1.02; 3000;occ; 114; 0;30898

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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 19; 6103.1; 27-JAN-2008 16:30:05; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;30898  
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 21; 6360.7; 27-JAN-2008 16:34:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30898  
 22; 6469.0; 27-JAN-2008 16:36:11; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30898  
 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  
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 8; 2299.0; 27-JAN-2008 17:07:17; Bright; 39.5; 151; 13Mu Gem ; 2.89; 3000;occ; 79; 0;30899  
 9; 2554.1; 27-JAN-2008 17:11:32; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;30899  
 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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 15; 4905.8; 27-JAN-2008 17:50:43; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 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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 21; 6194.7; 27-JAN-2008 18:12:12; Dark ; 44.0; 4; Alp1Cen ; -0.01; 5800;occ; 88; 0;30899  
 22; 6360.9; 27-JAN-2008 18:14:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30899  
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 13; 4087.0; 27-JAN-2008 19:17:41; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;30900  
 14; 4295.0; 27-JAN-2008 19:21:09; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;30900  
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 16; 4906.1; 27-JAN-2008 19:31:20; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;30900  
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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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 25; 6470.1; 27-JAN-2008 19:57:24; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;30900  
 26; 6701.8; 27-JAN-2008 20:01:15; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30900  
 27; 6836.9; 27-JAN-2008 20:03:30; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;30900  
 28; 6944.2; 27-JAN-2008 20:05:18; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;30900

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13; 2424.5; 22-JAN-2008 21:28:03; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30830
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17; 4084.1; 22-JAN-2008 21:55:43; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;30830
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