

GOMOS Daily Report 20-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	21JAN2008 06:14:42
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START) (20JAN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (21JAN2008 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)

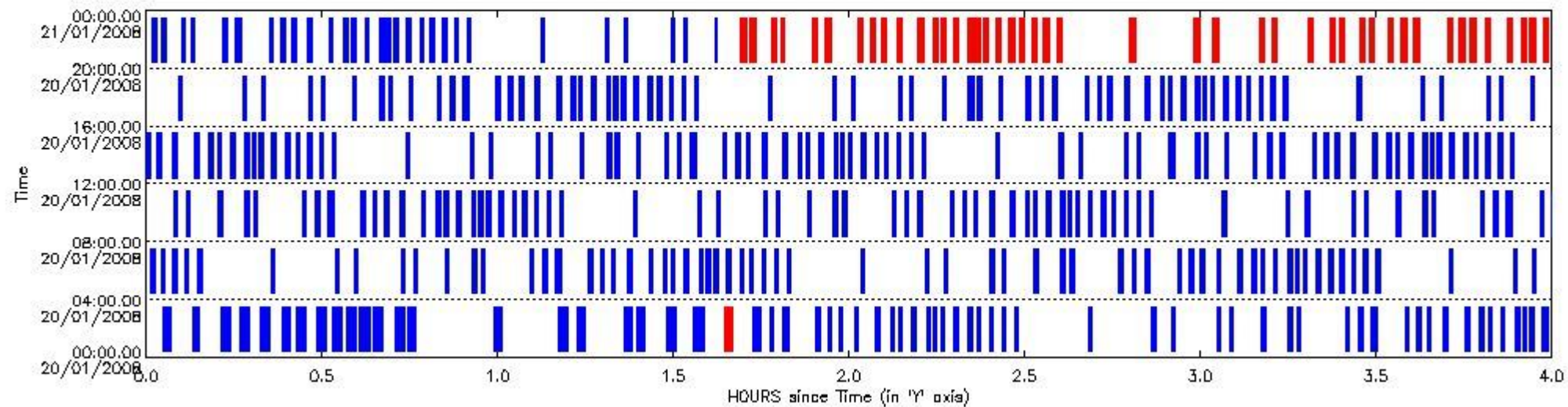
2.1 Level 0 products arrived in PCF (see template [here](#))

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
20-JAN-2008 01:38:46	GamLup	131	30789
20-JAN-2008 21:41:32	21AlpSco	16	30801
20-JAN-2008 21:43:06	26EpsSco	75	30801
20-JAN-2008 21:46:41	AlpAra	147	30801
20-JAN-2008 21:48:17	BetAra	141	30801
20-JAN-2008 21:53:43	BetCen	10	30802
20-JAN-2008 21:55:49	DSA1028	0	30802
20-JAN-2008 22:01:30	BetCar	29	30802
20-JAN-2008 22:03:34	IotCar	71	30802
20-JAN-2008 22:05:24	DelVel	46	30802
20-JAN-2008 22:08:07	AlpCar	2	30802
20-JAN-2008 22:11:45	PiPup	117	30802
20-JAN-2008 22:14:16	21EpsCMa	23	30802
20-JAN-2008 22:15:39	24Omi2CMa	179	30802
20-JAN-2008 22:17:50	9AlpCMa	1	30802

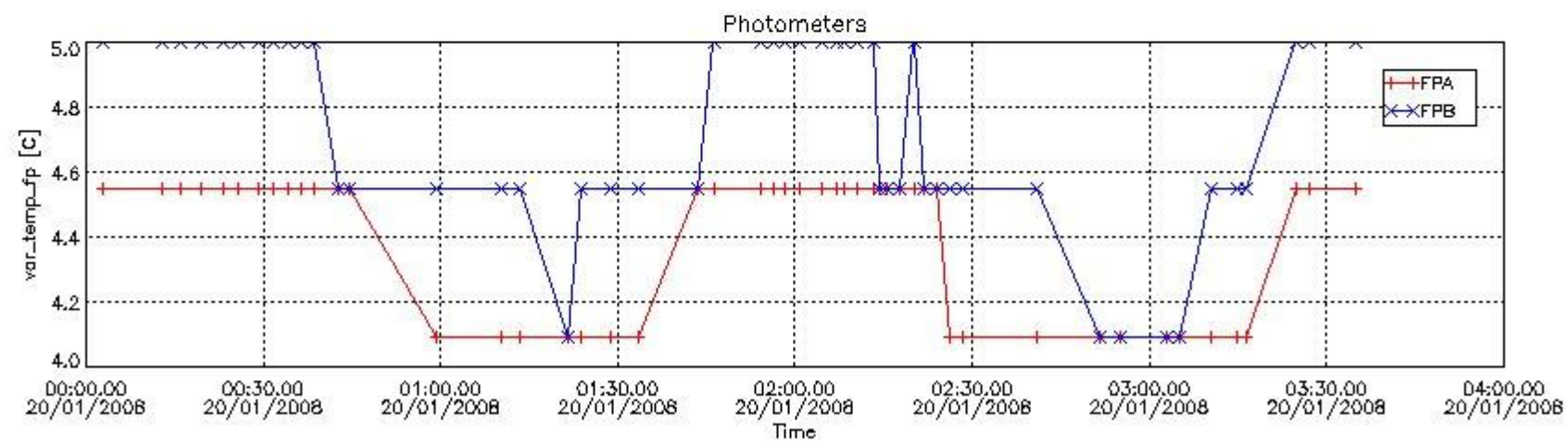
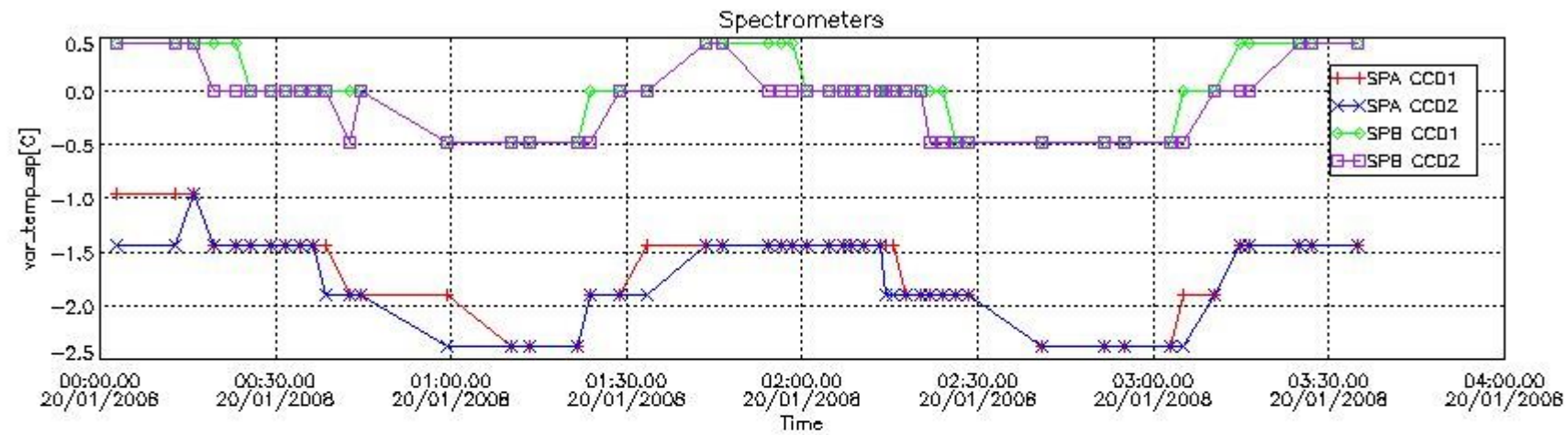
20-JAN-2008 22:20:22	53KapOri	56	30802
20-JAN-2008 22:21:34	44IotOri	125	30802
20-JAN-2008 22:22:51	46EpsOri	30	30802
20-JAN-2008 22:25:00	58AlpOri	14	30802
20-JAN-2008 22:27:18	24GamGem	44	30802
20-JAN-2008 22:29:03	13MuGem	151	30802
20-JAN-2008 22:31:09	12BetTau	28	30802
20-JAN-2008 22:33:14	37TheAur	107	30802
20-JAN-2008 22:35:24	34BetAur	42	30802
20-JAN-2008 22:47:57	1AlpUMi	49	30802
20-JAN-2008 22:58:54	23BetDra	130	30802
20-JAN-2008 23:02:10	3AlpLyr	5	30802
20-JAN-2008 23:10:08	55AlpOph	59	30802
20-JAN-2008 23:12:14	60BetOph	126	30802
20-JAN-2008 23:18:19	35EtaOph	86	30802
20-JAN-2008 23:22:09	21AlpSco	16	30802
20-JAN-2008 23:23:42	26EpsSco	75	30802
20-JAN-2008 23:27:18	AlpAra	147	30802
20-JAN-2008 23:28:53	BetAra	141	30802
20-JAN-2008 23:32:04	BetTrA	134	30803
20-JAN-2008 23:34:20	BetCen	10	30803
20-JAN-2008 23:36:26	DSA1028	0	30803
20-JAN-2008 23:42:06	BetCar	29	30803
20-JAN-2008 23:44:10	IotCar	71	30803
20-JAN-2008 23:46:01	DeIVel	46	30803
20-JAN-2008 23:48:43	AlpCar	2	30803
20-JAN-2008 23:52:22	PiPup	117	30803
20-JAN-2008 23:54:52	21EpsCMa	23	30803
20-JAN-2008 23:56:15	24Omi2CMa	179	30803
20-JAN-2008 23:58:26	9AlpCMa	1	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_1PNPDE20080120_000250_000000852065_00173_30788_4032.N1	20-JAN-2008 00:02:50	Dark	85.000	134	Bet TrA	2.8100	6600.0	170	30788	No
2	GOM_TRA_1PNPDE20080120_001251_000000892065_00174_30789_4033.N1	20-JAN-2008 00:12:51	Dark	88.500	29	Bet Car	1.6720	10200.	177	30789	No
3	GOM_TRA_1PNPDE20080120_001602_000000962065_00174_30789_4034.N1	20-JAN-2008 00:16:02	Dark	95.500	41	Eps Car	1.8600	4100.0	191	30789	No
4	GOM_TRA_1PNPDE20080120_001929_000000942065_00174_30789_4035.N1	20-JAN-2008 00:19:29	Dark	94.000	2	Alp Car	-0.73600	7000.0	188	30789	No
5	GOM_TRA_1PNPDE20080120_002305_000000932065_00174_30789_4036.N1	20-JAN-2008 00:23:05	Straylight	92.500	117	Pi Pup	2.7060	3800.0	185	30789	No
6	GOM_TRA_1PNPDE20080120_002536_000000952065_00174_30789_4037.N1	20-JAN-2008 00:25:36	Straylight	94.500	23	21Eps CMa	1.5020	26000.	189	30789	No
7	GOM_TRA_1PNPDE20080120_002912_000000942065_00174_30789_4038.N1	20-JAN-2008 00:29:12	Straylight	94.000	1	9Alp CMa	-1.4400	11000.	188	30789	No
8	GOM_TRA_1PNPDE20080120_003144_000000922065_00174_30789_4039.N1	20-JAN-2008 00:31:44	Straylight	92.000	56	53Kap Ori	2.0650	30000.	184	30789	No
9	GOM_TRA_1PNPDE20080120_003413_000000912065_00174_30789_4040.N1	20-JAN-2008 00:34:13	Twilight	91.000	30	46Eps Ori	1.6940	30000.	182	30789	No
10	GOM_TRA_1PNPDE20080120_003623_000001022065_00174_30789_4041.N1	20-JAN-2008 00:36:23	Twilight	102.00	14	58Alp Ori	0.87000	3000.0	204	30789	No
11	GOM_TRA_1PNPDE20080120_003840_000001022065_00174_30789_4042.N1	20-JAN-2008 00:38:40	Bright	102.00	44	24Gam Gem	1.9280	11000.	204	30789	No
12	GOM_TRA_1PNPDE20080120_004232_000000872065_00174_30789_4043.N1	20-JAN-2008 00:42:32	Bright	87.000	28	12Bet Tau	1.6500	15200.	174	30789	No
13	GOM_TRA_1PNPDE20080120_004438_000000852065_00174_30789_4044.N1	20-JAN-2008 00:44:38	Bright	84.500	107	37The Aur	2.6490	11000.	169	30789	No
14	GOM_TRA_1PNPDE20080120_005920_000000882065_00174_30789_4045.N1	20-JAN-2008 00:59:20	Bright	87.500	49	1Alp UMi	1.9900	6300.0	175	30789	No
15	GOM_TRA_1PNPDE20080120_011016_000001042065_00174_30789_4046.N1	20-JAN-2008 01:10:16	Bright	104.00	130	23Bet Dra	2.7990	5800.0	208	30789	No
16	GOM_TRA_1PNPDE20080120_011331_000000842065_00174_30789_4047.N1	20-JAN-2008 01:13:31	Bright	83.500	5	3Alp Lyr	0.033000	11000.	167	30789	No
17	GOM_TRA_1PNPDE20080120_012129_000000842065_00174_30789_4048.N1	20-JAN-2008 01:21:29	Bright	84.000	59	55Alp Oph	2.0800	8900.0	168	30789	No
18	GOM_TRA_1PNPDE20080120_012336_000000842065_00174_30789_4049.N1	20-JAN-2008 01:23:36	Bright	83.500	126	60Bet Oph	2.7700	4250.0	167	30789	No
19	GOM_TRA_1PNPDE20080120_012856_000000922065_00174_30789_4050.N1	20-JAN-2008 01:28:56	Bright	91.500	98	13Zet Oph	2.5710	30000.	183	30789	No
20	GOM_TRA_1PNPDE20080120_013325_000001062065_00174_30789_4168.N1	20-JAN-2008 01:33:25	Twilight	106.00	16	21Alp Sco	1.0200	3000.0	212	30789	No
21	GOM_TRA_1PNPDE20080120_014326_000000862065_00174_30789_4169.N1	20-JAN-2008 01:43:26	Dark	85.500	134	Bet TrA	2.8100	6600.0	171	30789	No
22	GOM_TRA_1PNPDE20080120_014627_000000422065_00175_30790_4170.N1	20-JAN-2008 01:46:27	Dark	42.000	10	Bet Cen	0.61000	28000.	84	30790	No
23	GOM_TRA_1PNPDE20080120_015417_000000432065_00175_30790_4171.N1	20-JAN-2008 01:54:17	Dark	42.500	29	Bet Car	1.6720	10200.	85	30790	No
24	GOM_TRA_1PNPDE20080120_015620_000000442065_00175_30790_4172.N1	20-JAN-2008 01:56:20	Dark	44.000	71	Iot Car	2.2460	7700.0	88	30790	No

25	GOM_TRA_1PNPDE20080120_015810_000000432065_00175_30790_4173.N1	20-JAN-2008 01:58:10	Dark	43.000	46	Del Vel	1.9540	10600.	86	30790	No
26	GOM_TRA_1PNPDE20080120_020055_000000432065_00175_30790_4174.N1	20-JAN-2008 02:00:55	Dark	43.000	2	Alp Car	-0.73600	7000.0	86	30790	No
27	GOM_TRA_1PNPDE20080120_020433_000000432065_00175_30790_4175.N1	20-JAN-2008 02:04:33	Straylight	42.500	117	Pi Pup	2.7060	3800.0	85	30790	No
28	GOM_TRA_1PNPDE20080120_020704_000000432065_00175_30790_4176.N1	20-JAN-2008 02:07:04	Straylight	42.500	23	21Eps CMa	1.5020	26000.	85	30790	No
29	GOM_TRA_1PNPDE20080120_020828_000000402065_00175_30790_4177.N1	20-JAN-2008 02:08:28	Straylight	39.500	179	24Omi2CMa	3.0320	24000.	79	30790	No
30	GOM_TRA_1PNPDE20080120_021039_000000472065_00175_30790_4178.N1	20-JAN-2008 02:10:39	Straylight	46.500	1	9Alp CMa	-1.4400	11000.	93	30790	No
31	GOM_TRA_1PNPDE20080120_021310_000000422065_00175_30790_4179.N1	20-JAN-2008 02:13:10	Straylight	41.500	56	53Kap Ori	2.0650	30000.	83	30790	No
32	GOM_TRA_1PNPDE20080120_021422_000000382065_00175_30790_4180.N1	20-JAN-2008 02:14:22	Twi_and_stray	38.000	125	44Iot Ori	2.7700	30000.	76	30790	No
33	GOM_TRA_1PNPDE20080120_021539_000000422065_00175_30790_4181.N1	20-JAN-2008 02:15:39	Twi_and_stray	41.500	30	46Eps Ori	1.6940	30000.	83	30790	No
34	GOM_TRA_1PNPDE20080120_021749_000000502065_00175_30790_4182.N1	20-JAN-2008 02:17:49	Twi_and_stray	50.000	14	58Alp Ori	0.87000	3000.0	100	30790	No
35	GOM_TRA_1PNPDE20080120_022008_000000482065_00175_30790_4183.N1	20-JAN-2008 02:20:08	Bright	48.000	44	24Gam Gem	1.9280	11000.	96	30790	No
36	GOM_TRA_1PNPDE20080120_022153_000000382065_00175_30790_4184.N1	20-JAN-2008 02:21:53	Bright	37.500	151	13Mu Gem	2.8900	3000.0	75	30790	No
37	GOM_TRA_1PNPDE20080120_022357_000000372065_00175_30790_4185.N1	20-JAN-2008 02:23:57	Bright	36.500	28	12Bet Tau	1.6500	15200.	73	30790	No
38	GOM_TRA_1PNPDE20080120_022604_000000372065_00175_30790_4186.N1	20-JAN-2008 02:26:04	Bright	36.500	107	37The Aur	2.6490	11000.	73	30790	No
39	GOM_TRA_1PNPDE20080120_022814_000000362065_00175_30790_4187.N1	20-JAN-2008 02:28:14	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	30790	No
40	GOM_TRA_1PNPDE20080120_024048_000000342065_00175_30790_4188.N1	20-JAN-2008 02:40:48	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	30790	No
41	GOM_TRA_1PNPDE20080120_025143_000000372065_00175_30790_4359.N1	20-JAN-2008 02:51:43	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	30790	No
42	GOM_TRA_1PNPDE20080120_025458_000000362065_00175_30790_4360.N1	20-JAN-2008 02:54:58	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	30790	No
43	GOM_TRA_1PNPDE20080120_030256_000000342065_00175_30790_4361.N1	20-JAN-2008 03:02:56	Bright	33.500	59	55Alp Oph	2.0800	8900.0	67	30790	No
44	GOM_TRA_1PNPDE20080120_030502_000000342065_00175_30790_4362.N1	20-JAN-2008 03:05:02	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	30790	No
45	GOM_TRA_1PNPDE20080120_031025_000000392065_00175_30790_4363.N1	20-JAN-2008 03:10:25	Bright	39.000	98	13Zet Oph	2.5710	30000.	78	30790	No
46	GOM_TRA_1PNPDE20080120_031454_000000452065_00175_30790_4364.N1	20-JAN-2008 03:14:54	Twilight	45.000	16	21Alp Sco	1.0200	3000.0	90	30790	No
47	GOM_TRA_1PNPDE20080120_031628_000000422065_00175_30790_4365.N1	20-JAN-2008 03:16:28	Twilight	42.000	75	26Eps Sco	2.2910	4250.0	84	30790	No
48	GOM_TRA_1PNPDE20080120_032451_000000372065_00176_30791_4366.N1	20-JAN-2008 03:24:51	Dark	36.500	134	Bet TrA	2.8100	6600.0	73	30791	No
49	GOM_TRA_1PNPDE20080120_032704_000000402065_00176_30791_4367.N1	20-JAN-2008 03:27:04	Dark	39.500	10	Bet Cen	0.61000	28000.	79	30791	No
50	GOM_TRA_1PNPDE20080120_033453_000000392065_00176_30791_4368.N1	20-JAN-2008 03:34:53	Dark	39.000	29	Bet Car	1.6720	10200.	78	30791	No

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



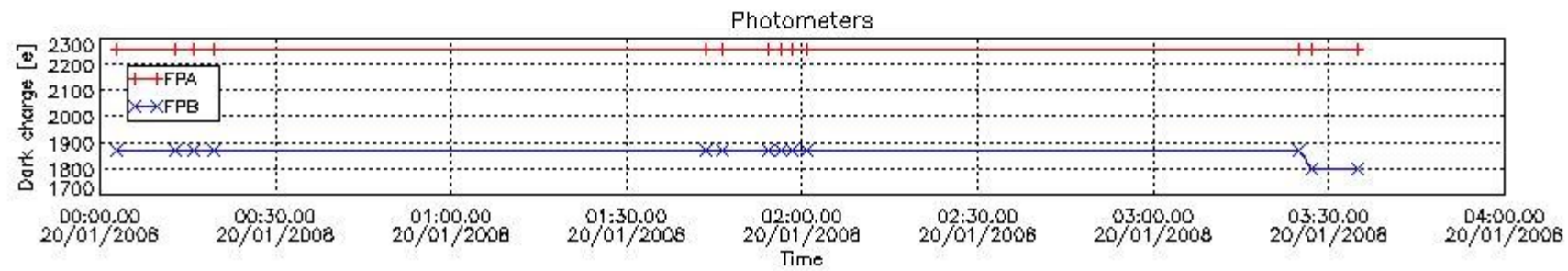
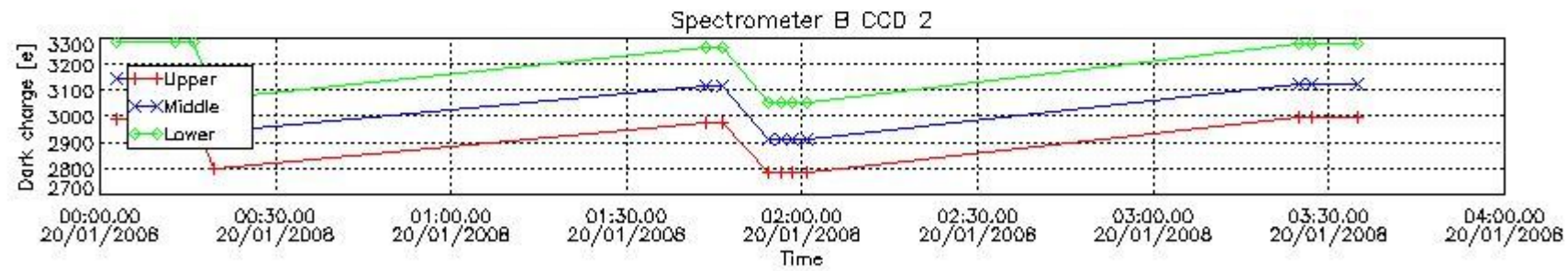
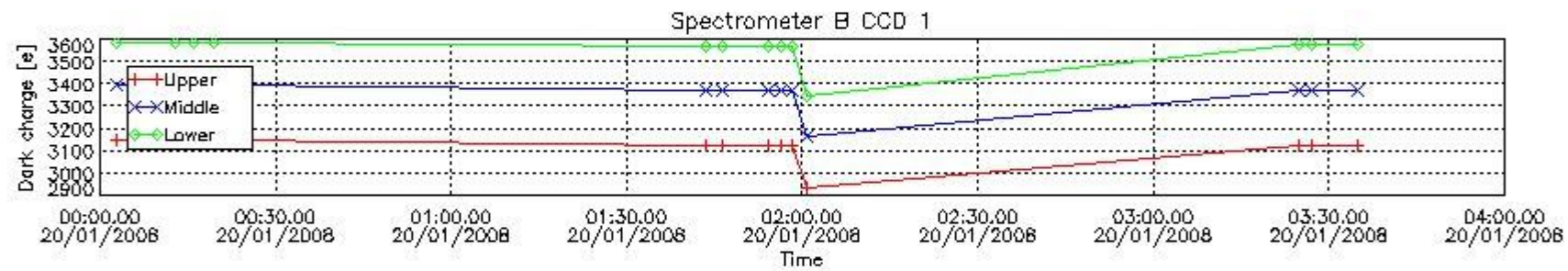
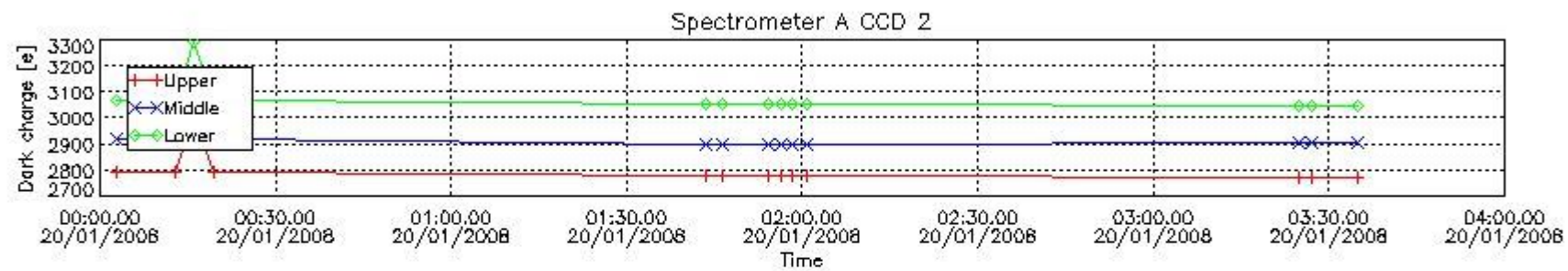
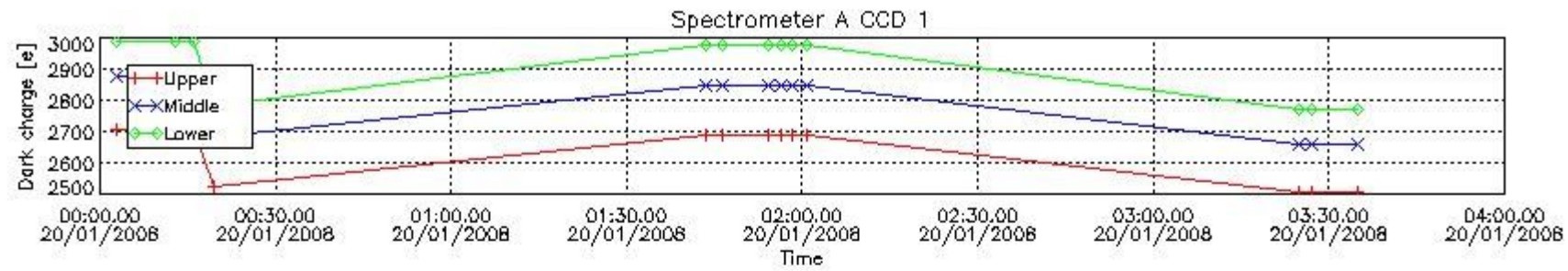
4. Overview of dark signal processing per product

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

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

4.1 All products used the DSA observation for the DC computation

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



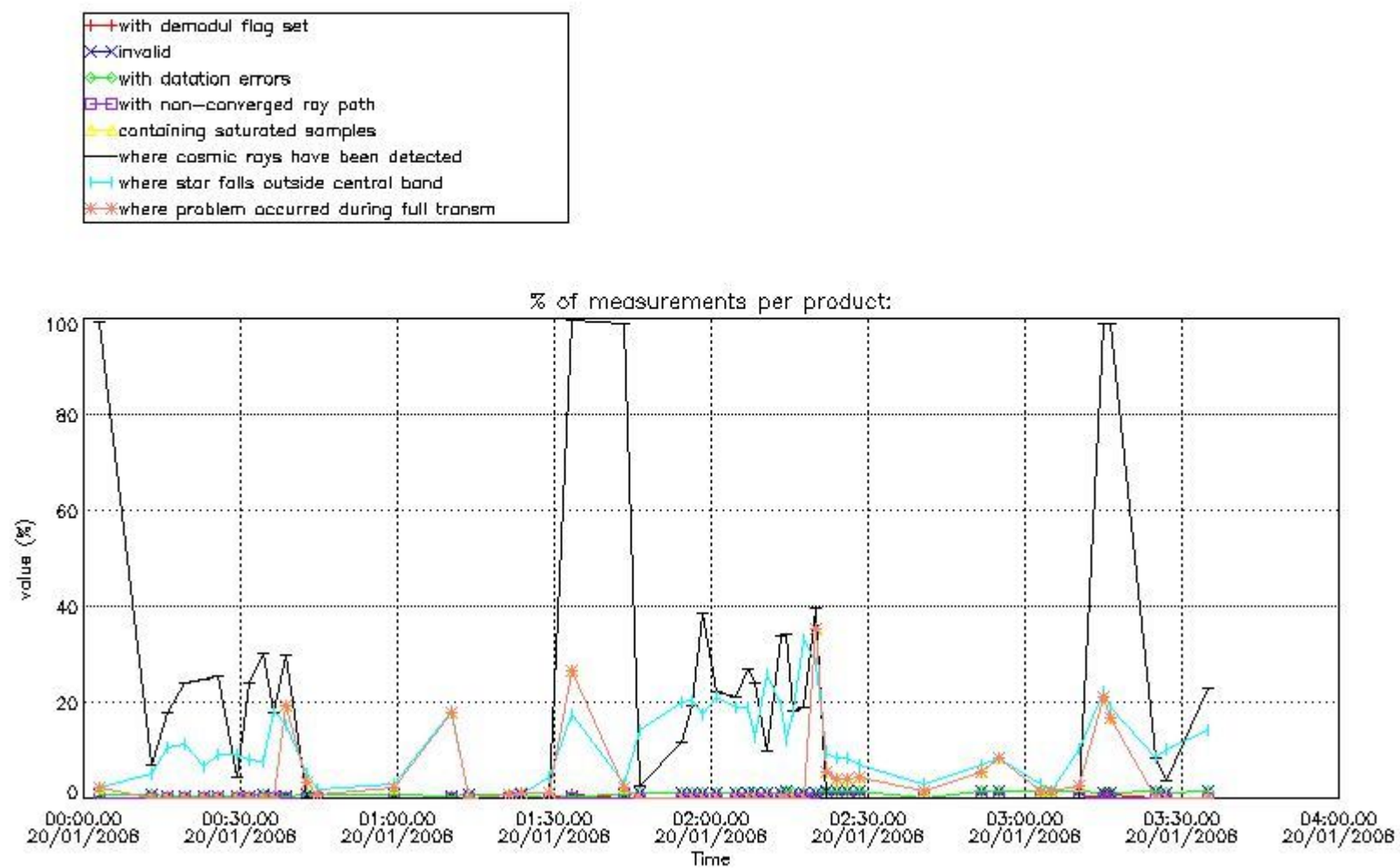
5. Demodulation flag and quality information monitoring

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

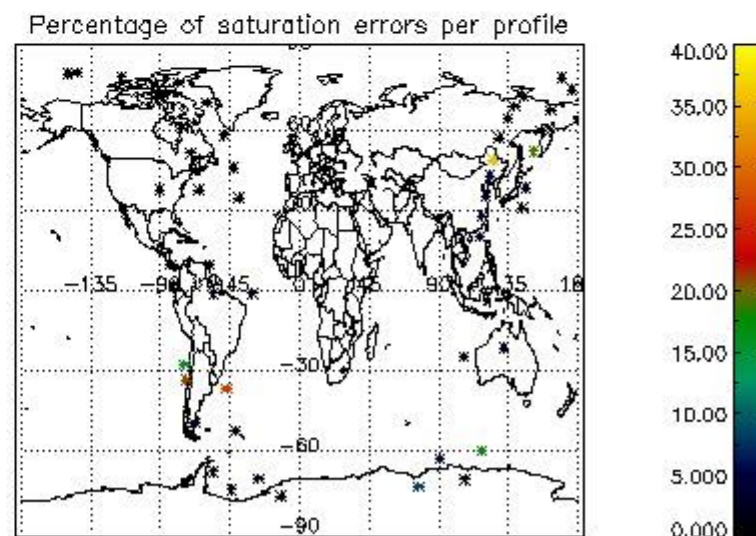
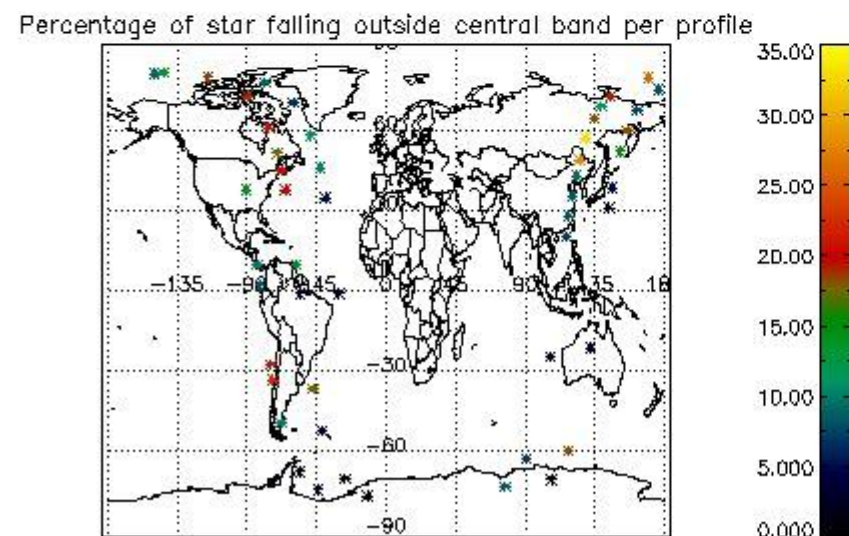
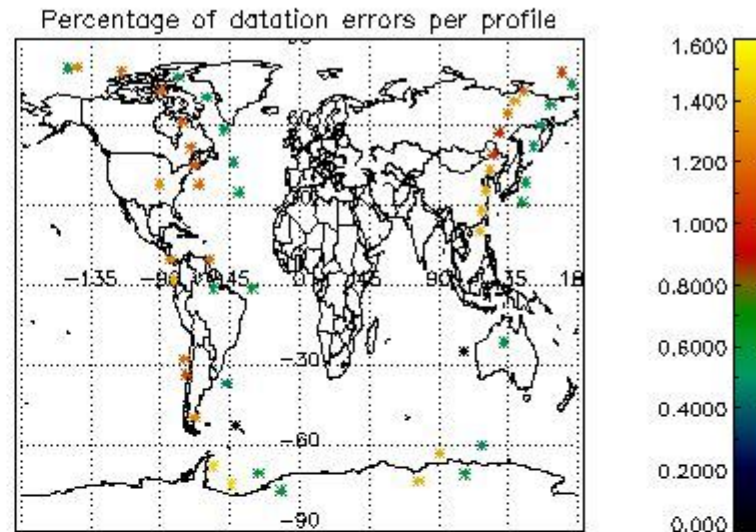
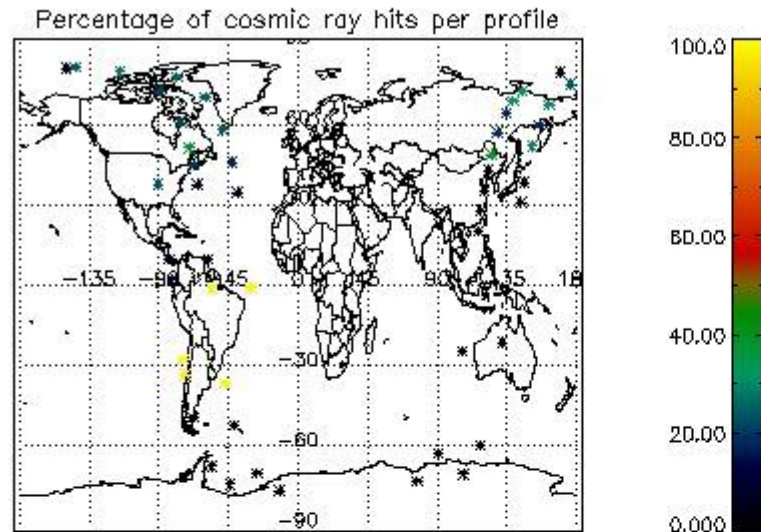
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	34.0000 %
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)



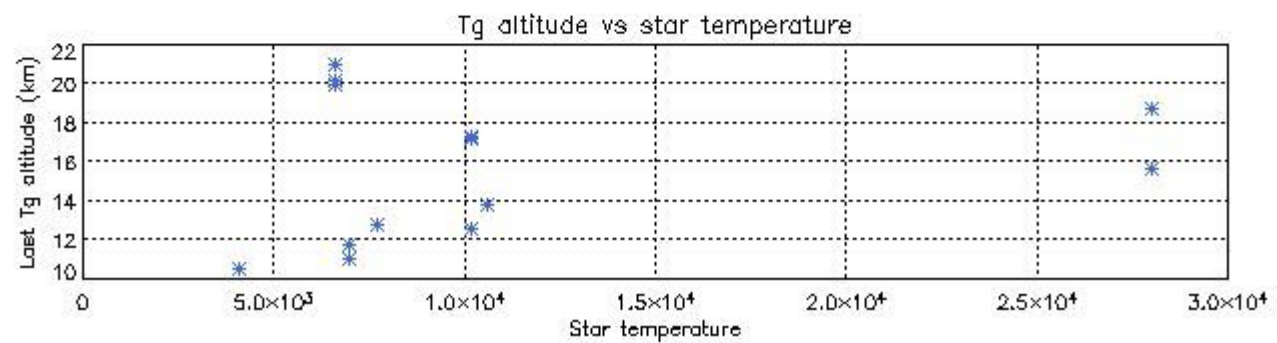
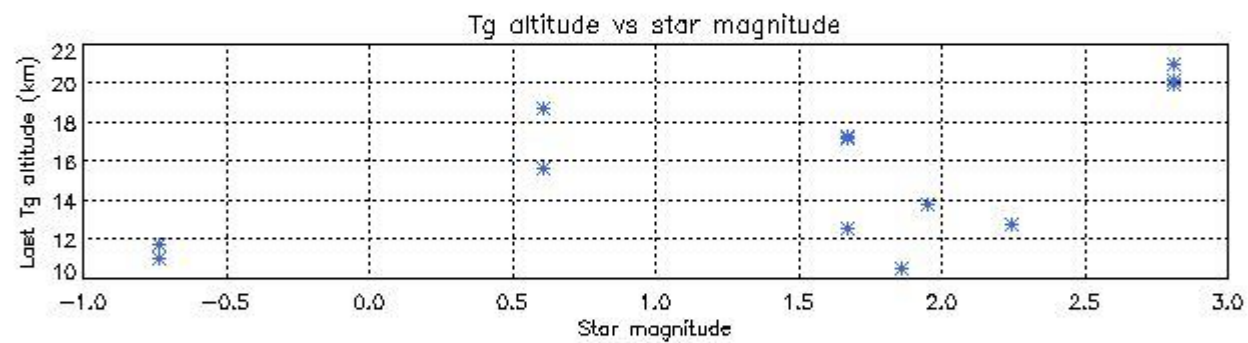
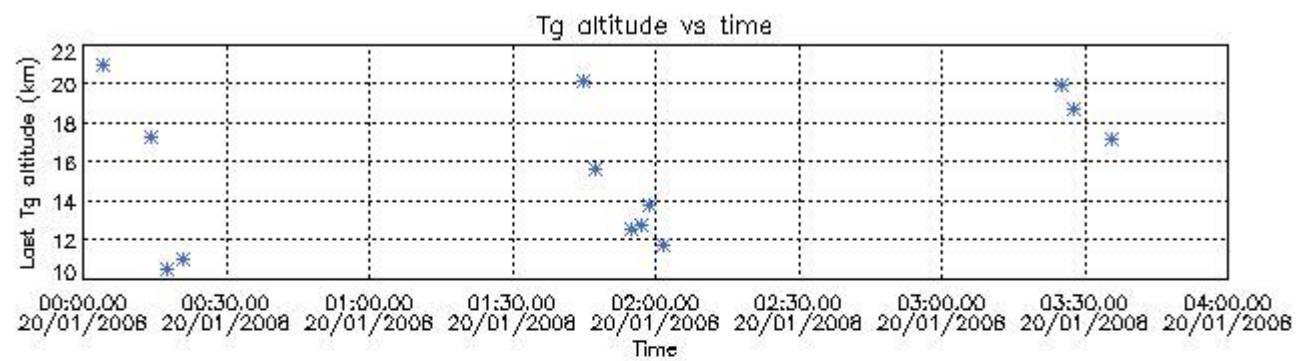
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.577	18.842	11.914
St. deviation:	3.7094	6.2219	0.96833
Maximum:	20.942	25.873	12.598
Minimum:	10.558	3.7735	11.229
Number of data:	13.000	20.000	2.0000

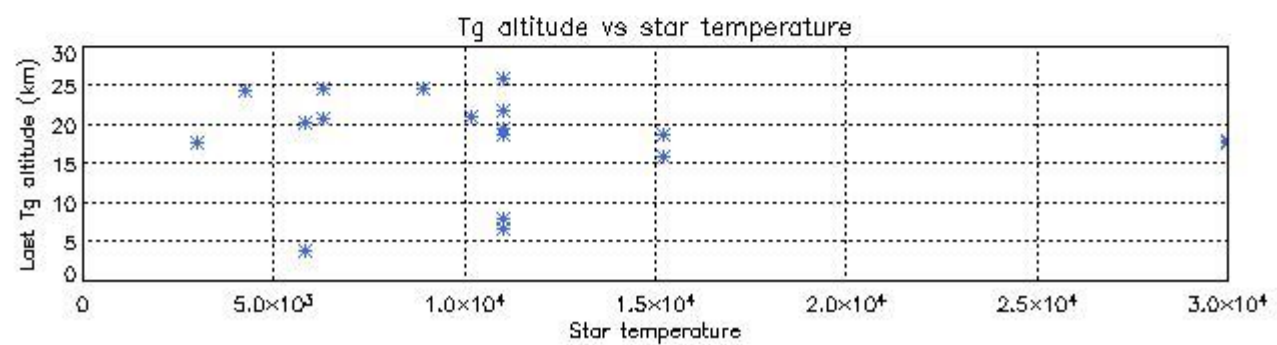
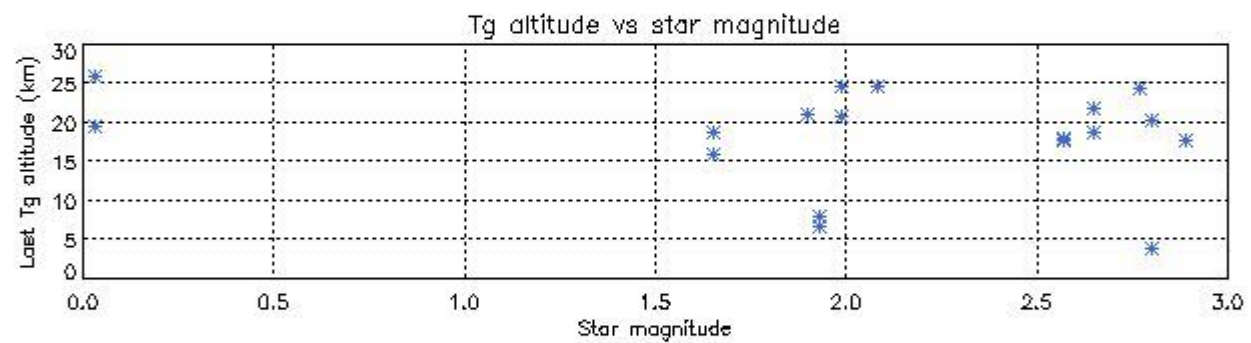
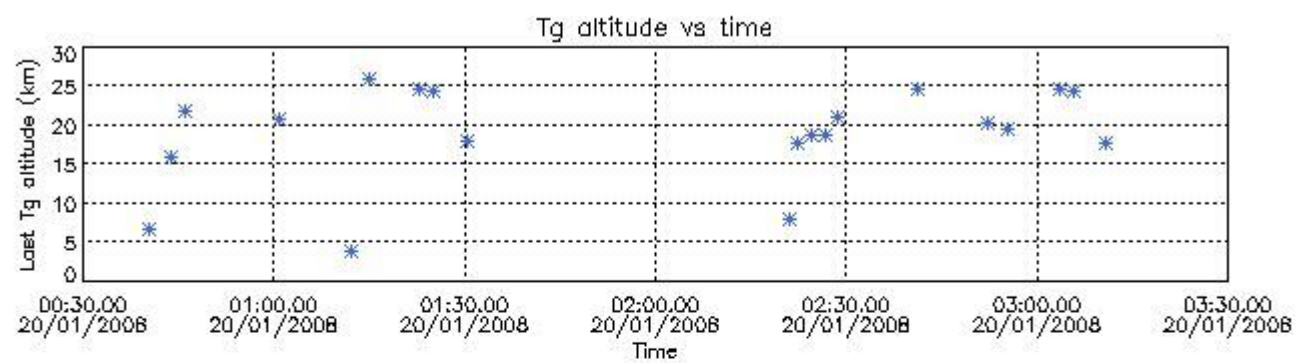
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



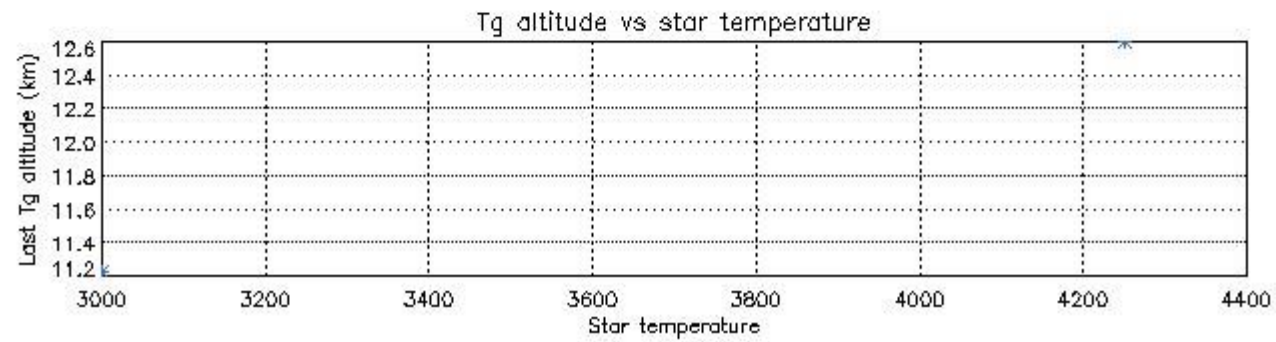
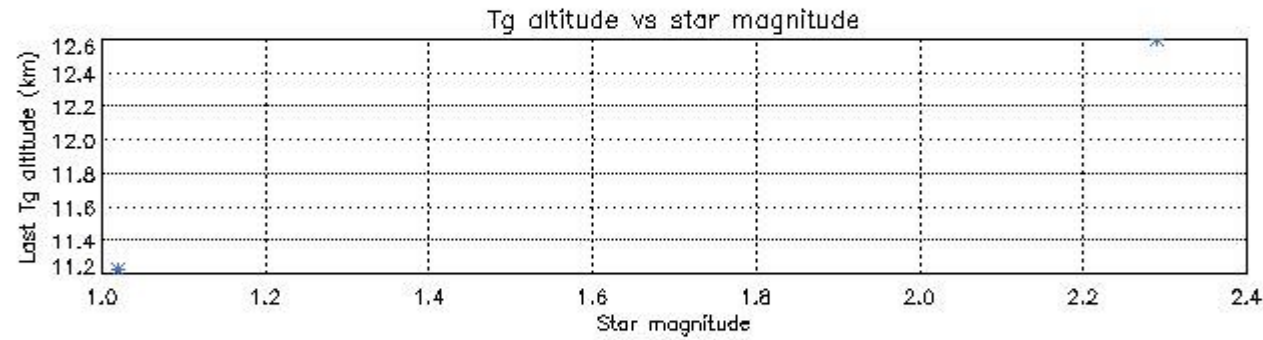
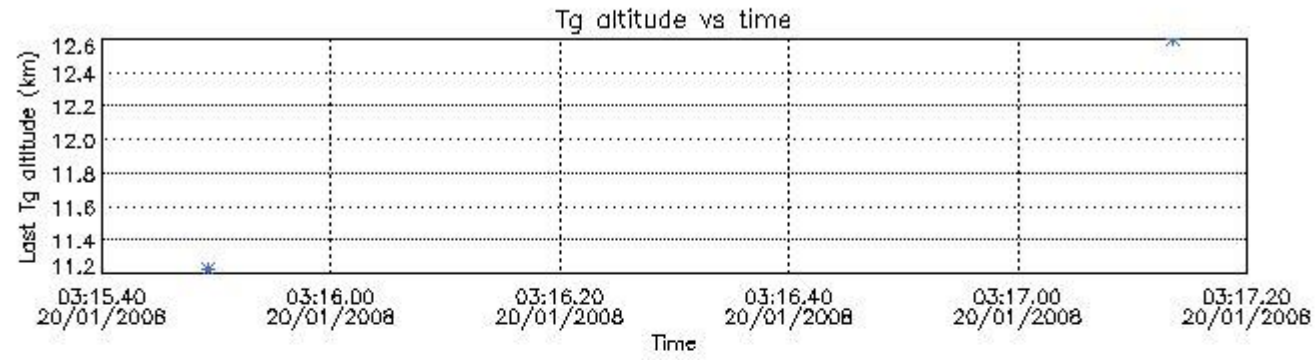
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

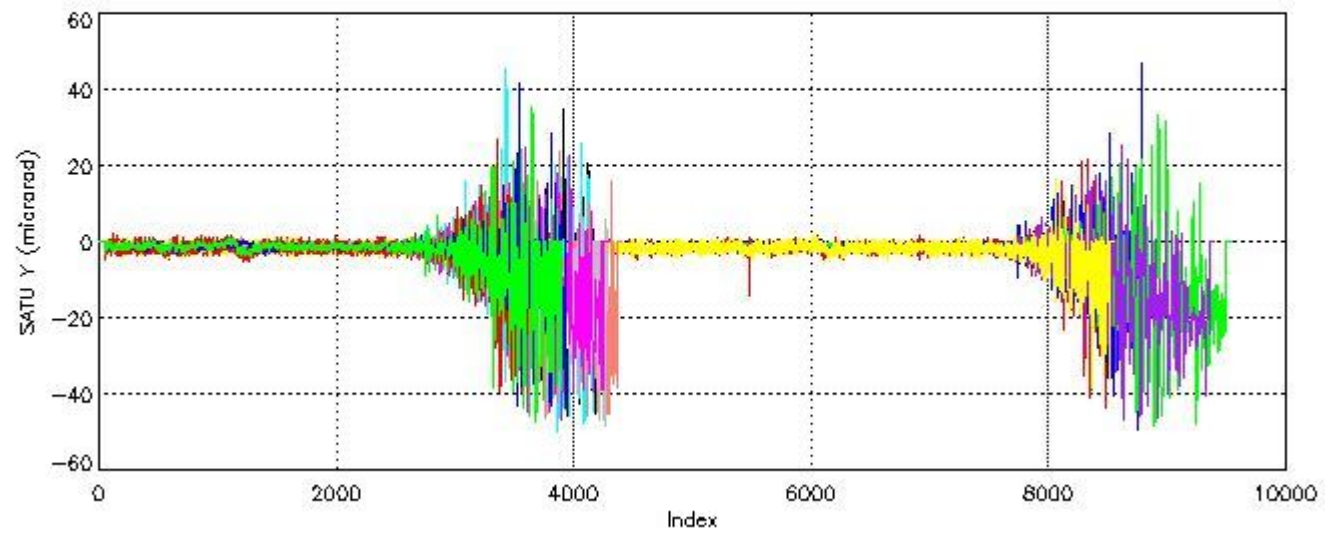
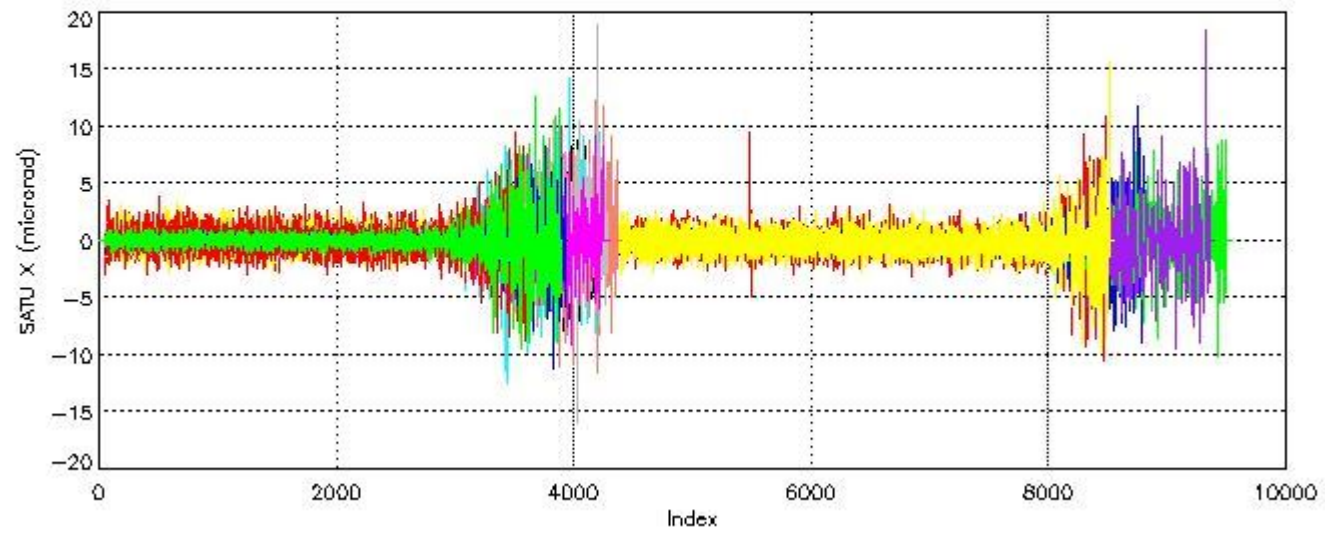


7. Star Acquisition and Tracking Unit (SATU)

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:	0.068486	-1.4299	0.058872	-1.3807
St. deviation:	0.45731	0.61875	0.66051	0.79960
Maximum:	9.4000	2.0000	4.4000	4.1000
Minimum:	-5.0000	-14.000	-5.0000	-6.7000

Number of data:	36200.	36200.	61950.	61950.
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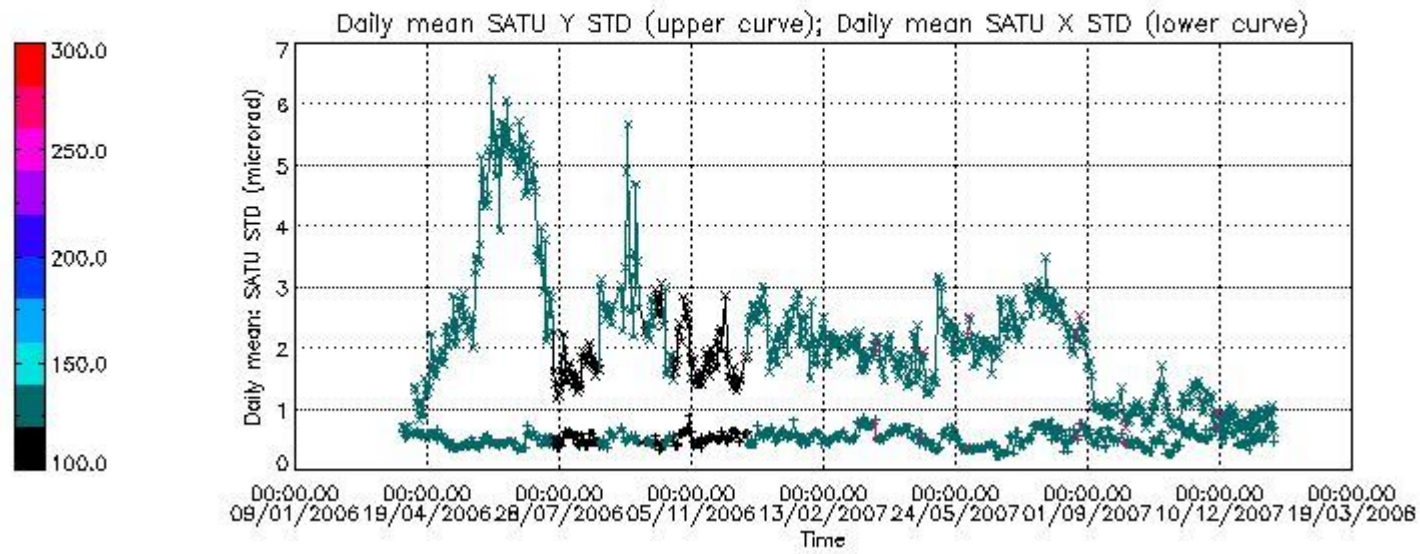
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

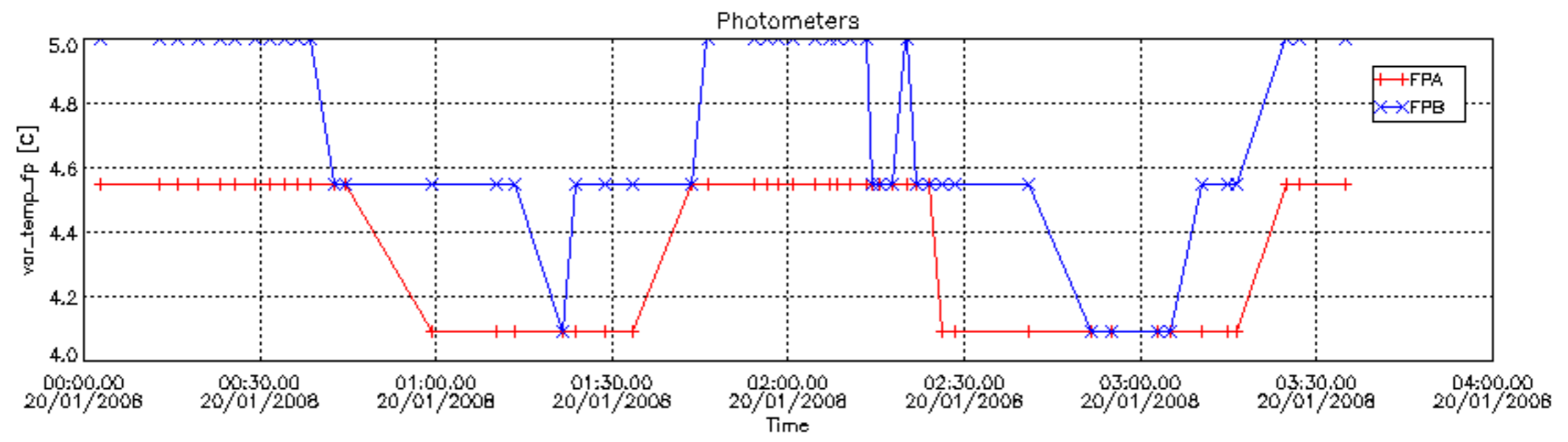
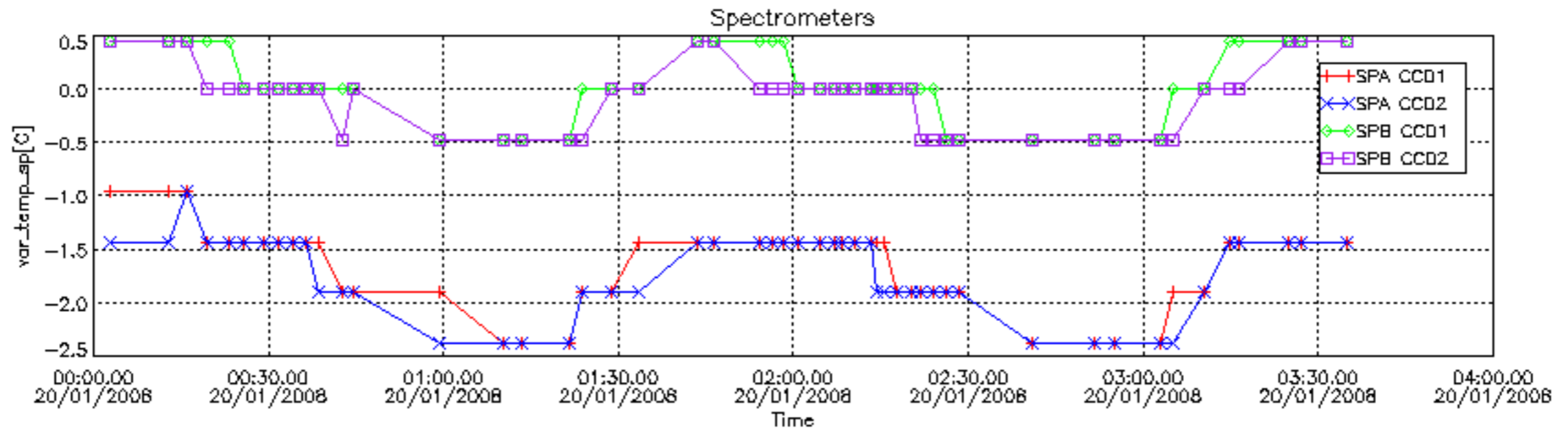
Lower curve: STD of SATU X axis

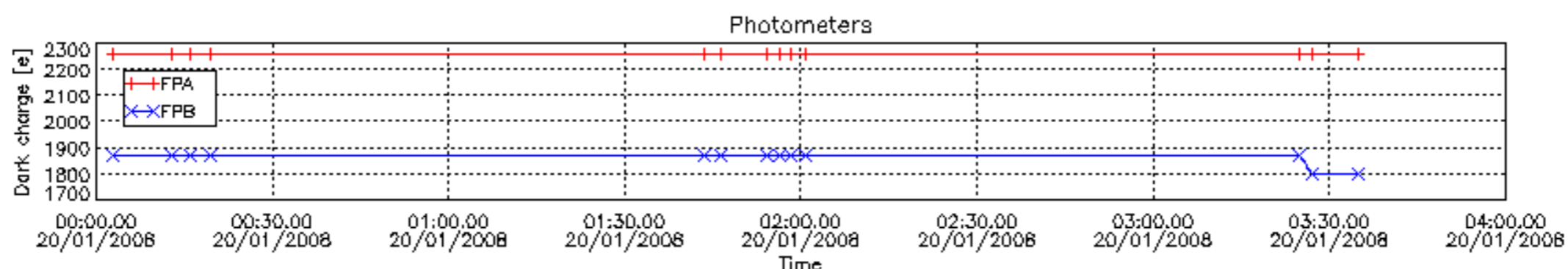
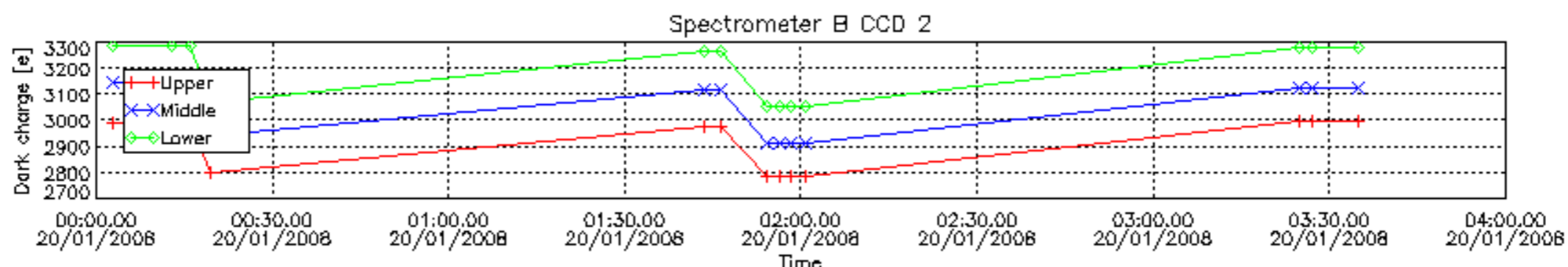
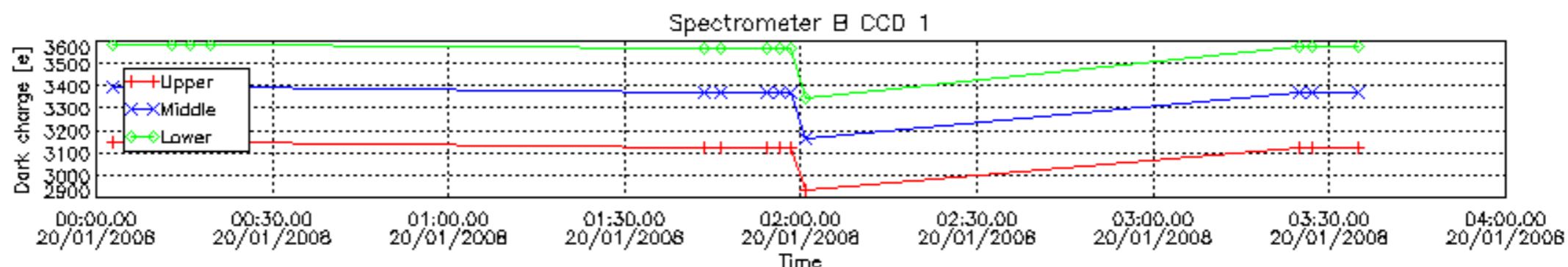
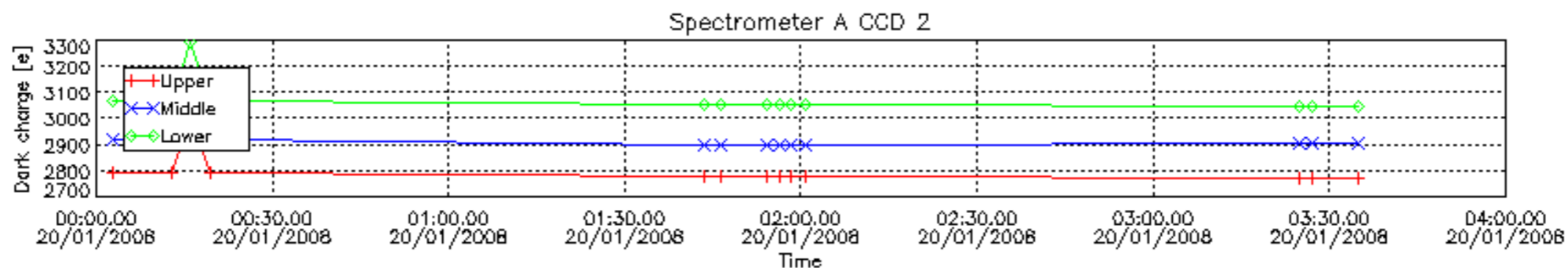
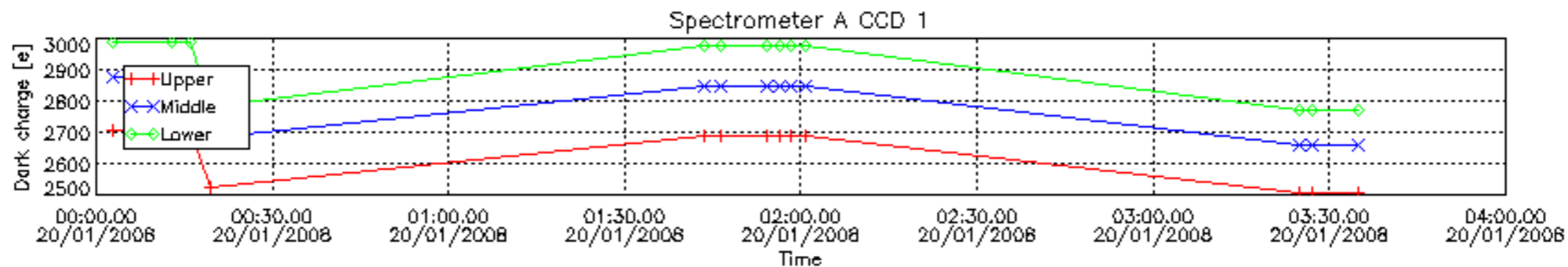


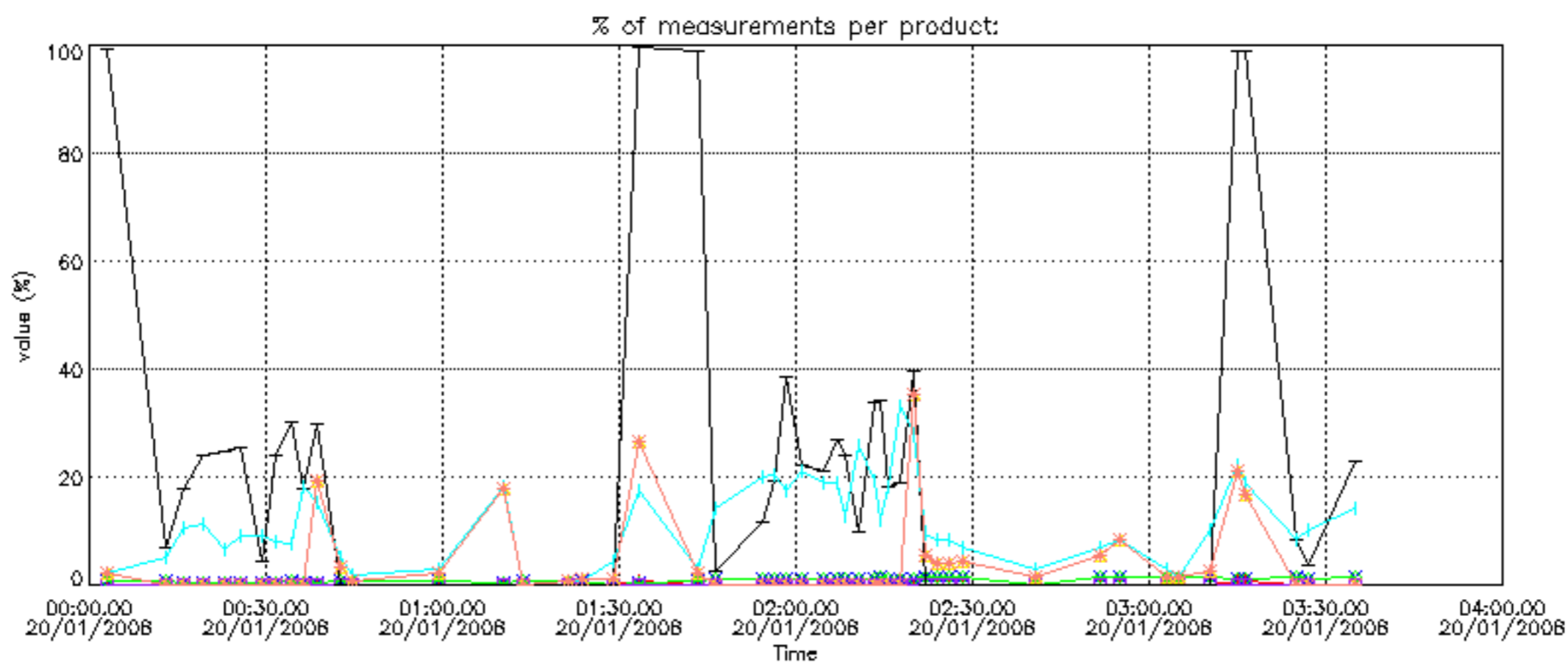
8. Auxiliary Data Files used for the production reported in section 2.4

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.

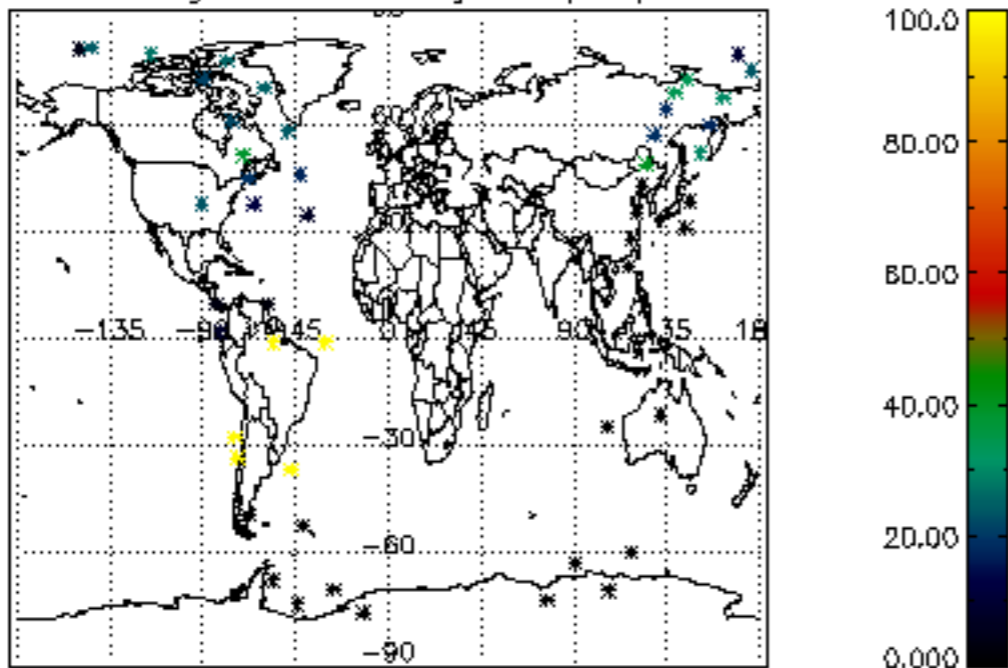
Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080118_162059_20080116_000000_20100101_000000	1	20-JAN-2008 00:02:50
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	20-JAN-2008 00:02:50
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-JAN-2008 00:02:50
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	20-JAN-2008 00:02:50
ECMWF_FILE	AUX_ECF_AXNECM20080119_073112_20080119_210000_20080120_090000	1	20-JAN-2008 00:02:50
OPTIONAL_ECMWF_FILE	MISSING	1	20-JAN-2008 00:02:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080119_220332_000060572065_00172_30787_4978.N1	1	20-JAN-2008 00:02:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080119_234948_000057382065_00173_30788_4979.N1	20	20-JAN-2008 01:33:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080120_013045_000041442065_00174_30789_4980.N1	41	20-JAN-2008 02:51:43



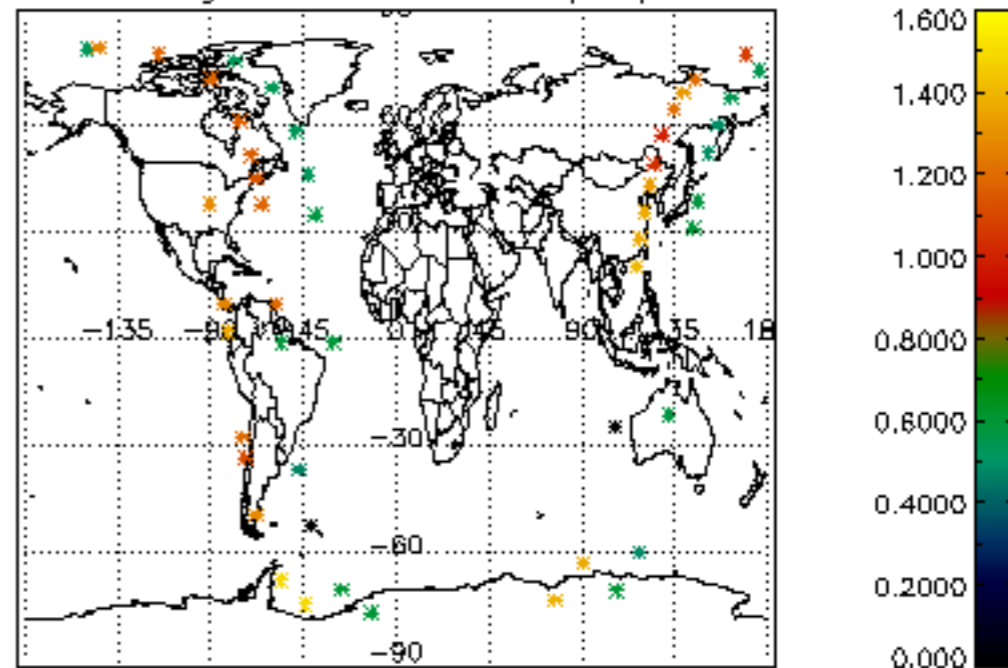




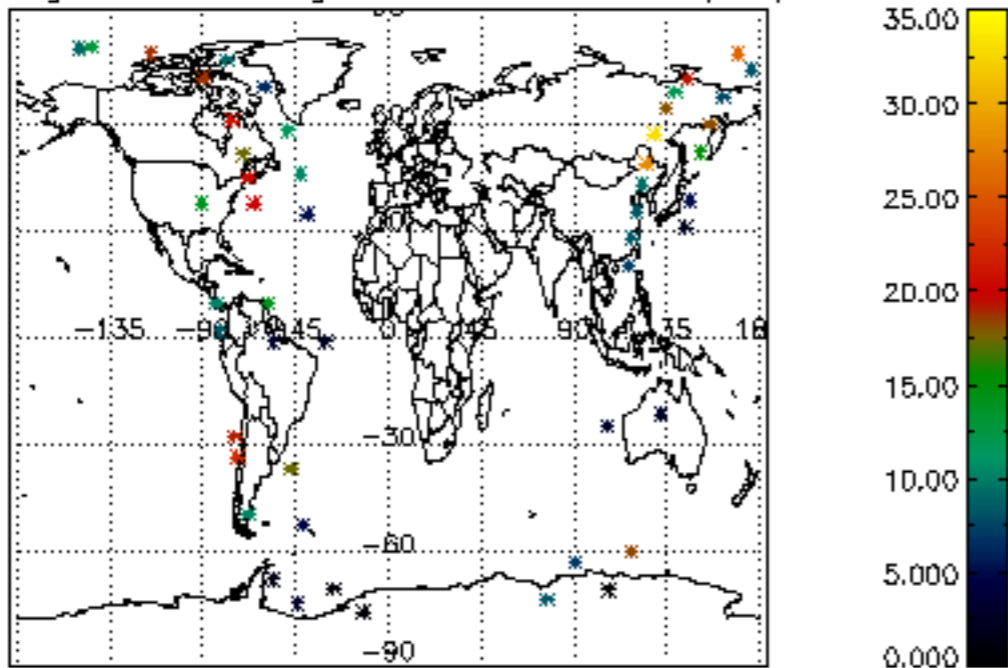
Percentage of cosmic ray hits per profile



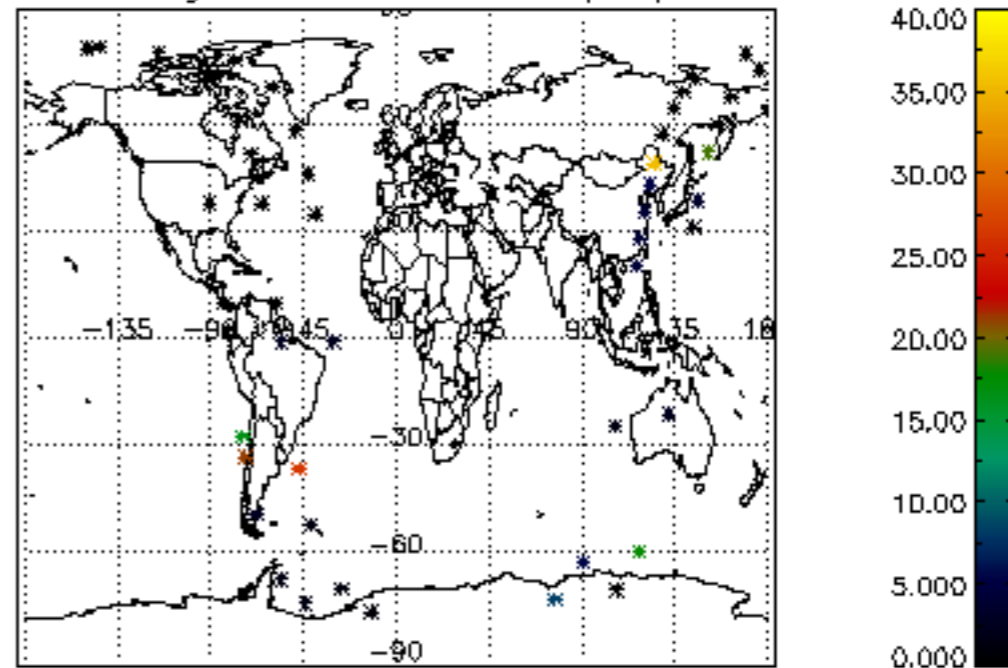
Percentage of datation errors per profile



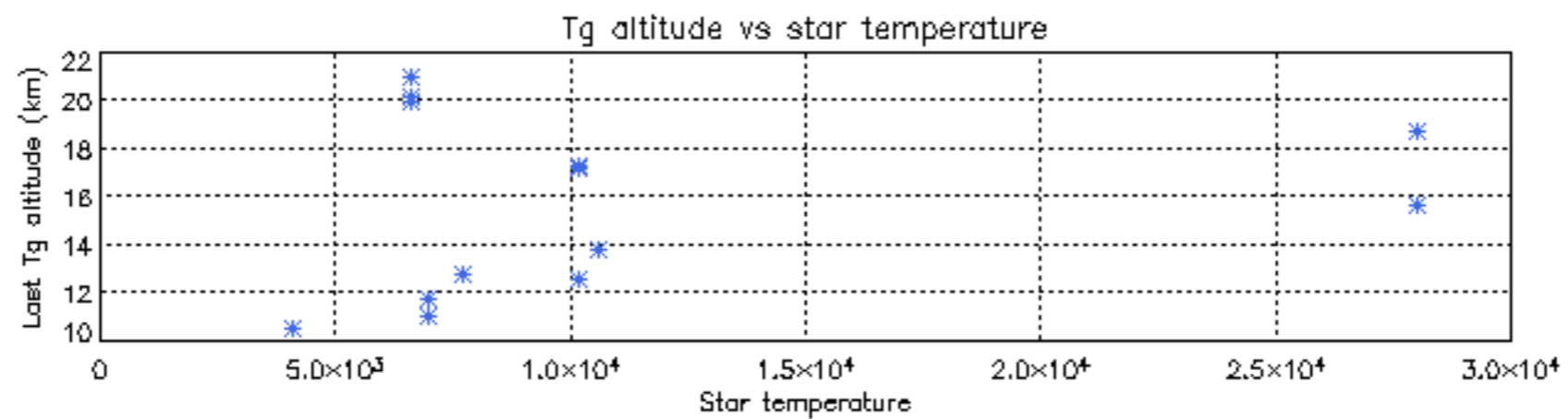
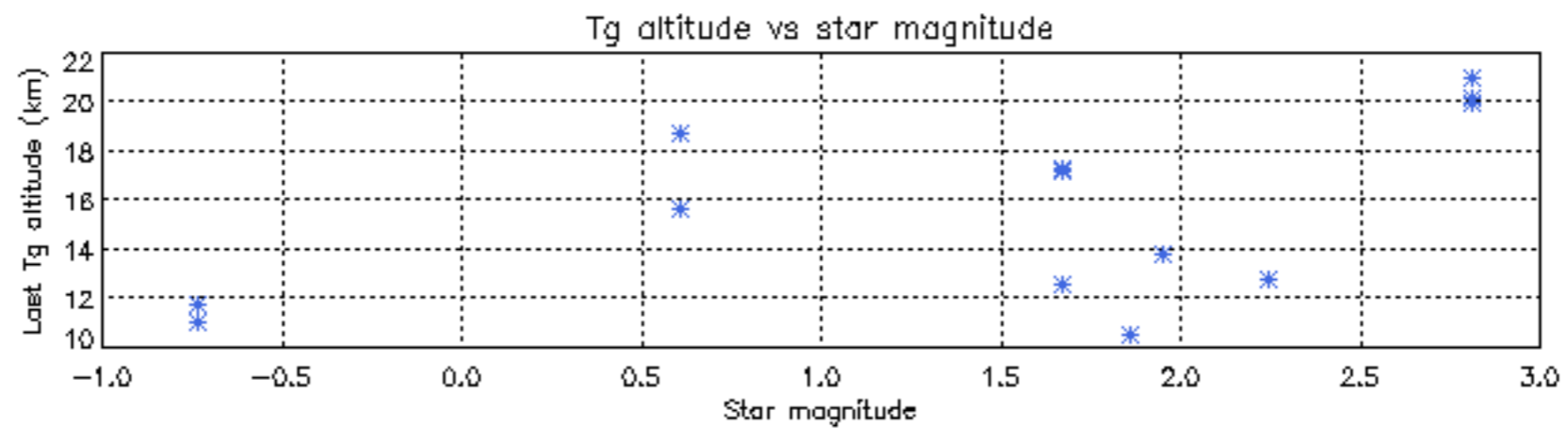
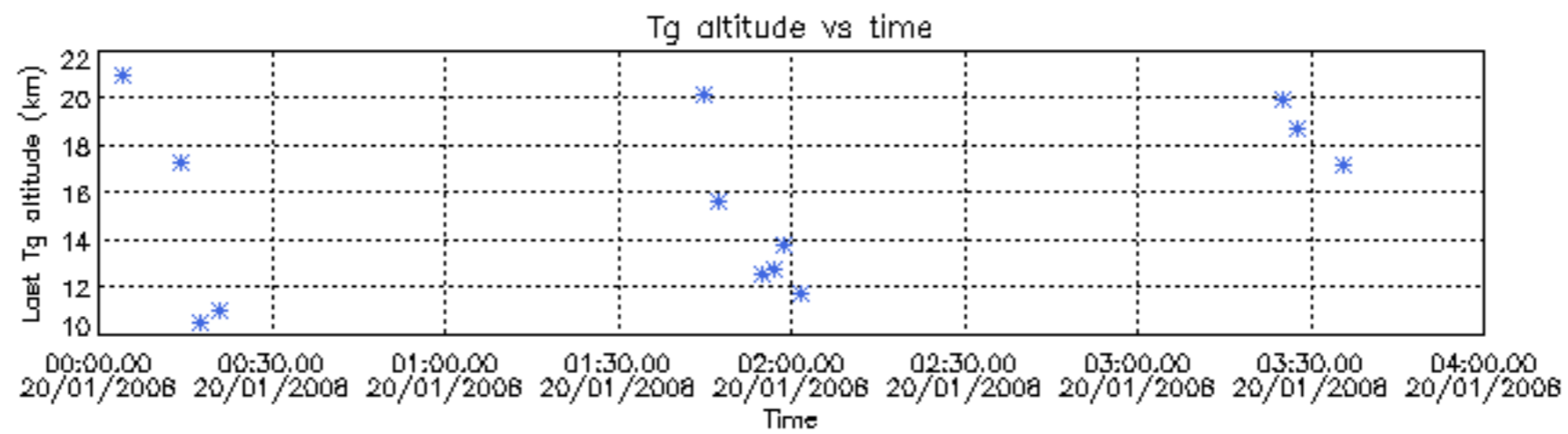
Percentage of star falling outside central band per profile



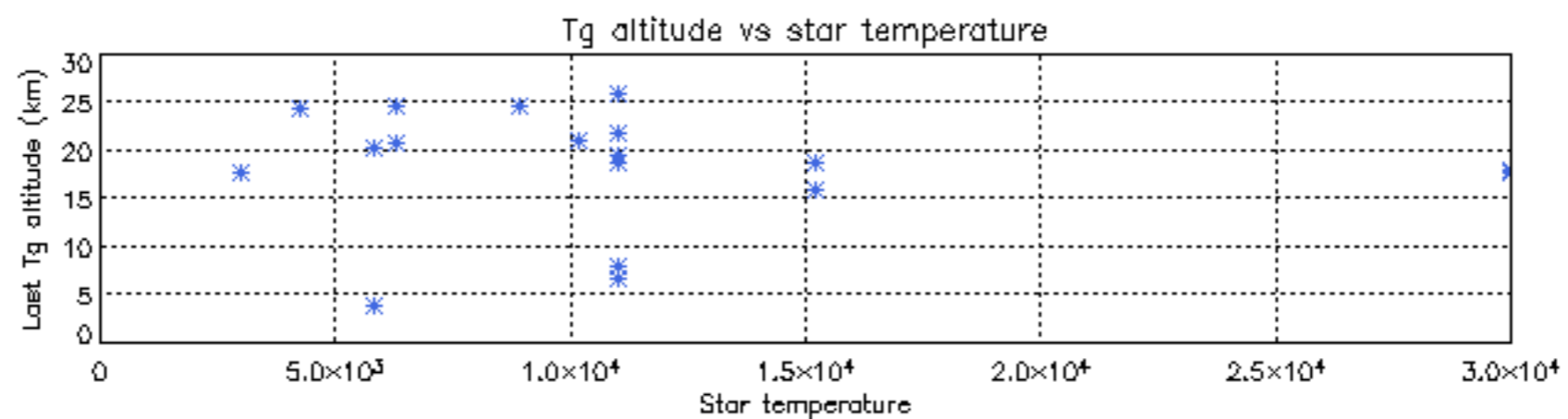
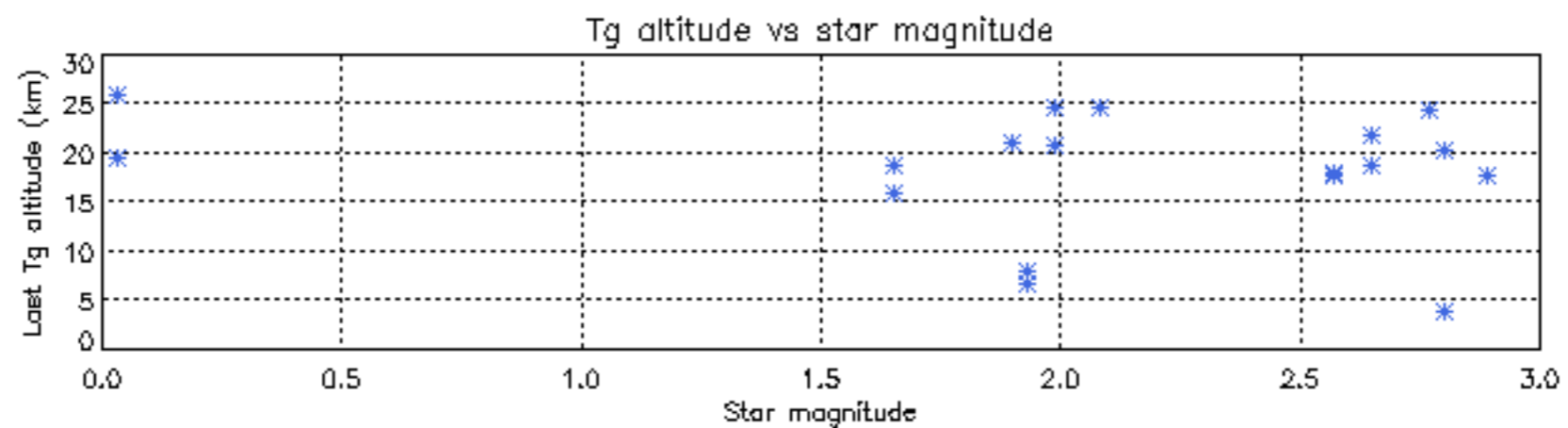
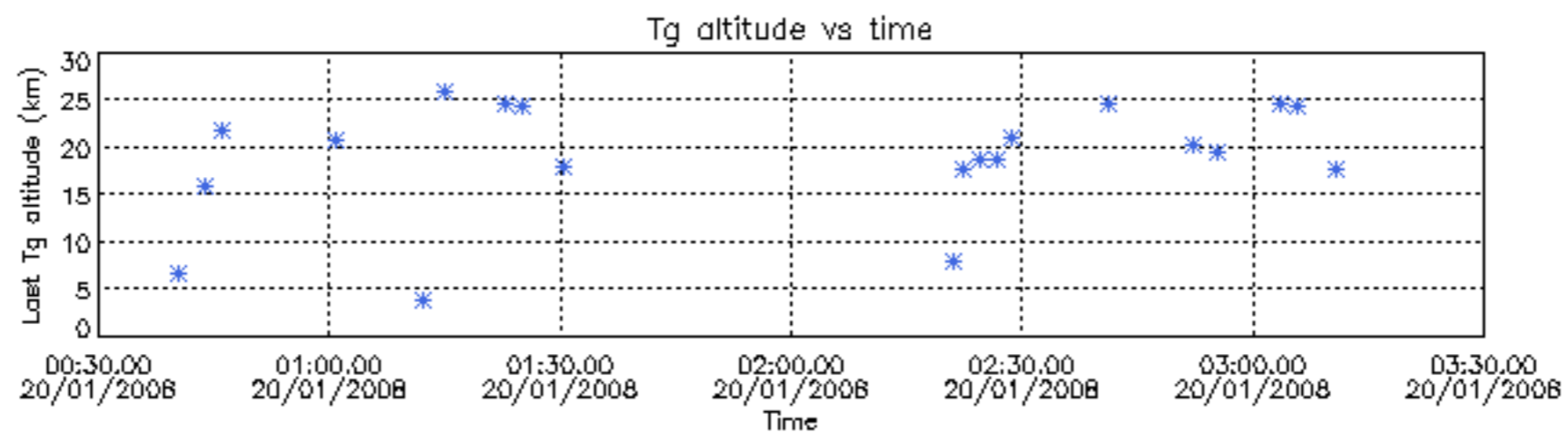
Percentage of saturation errors per profile



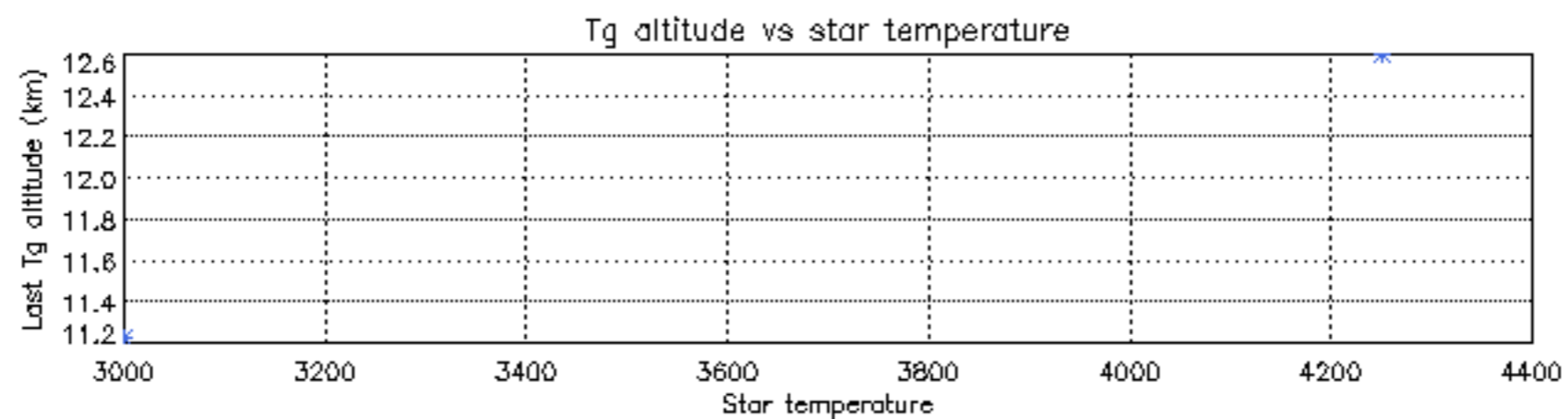
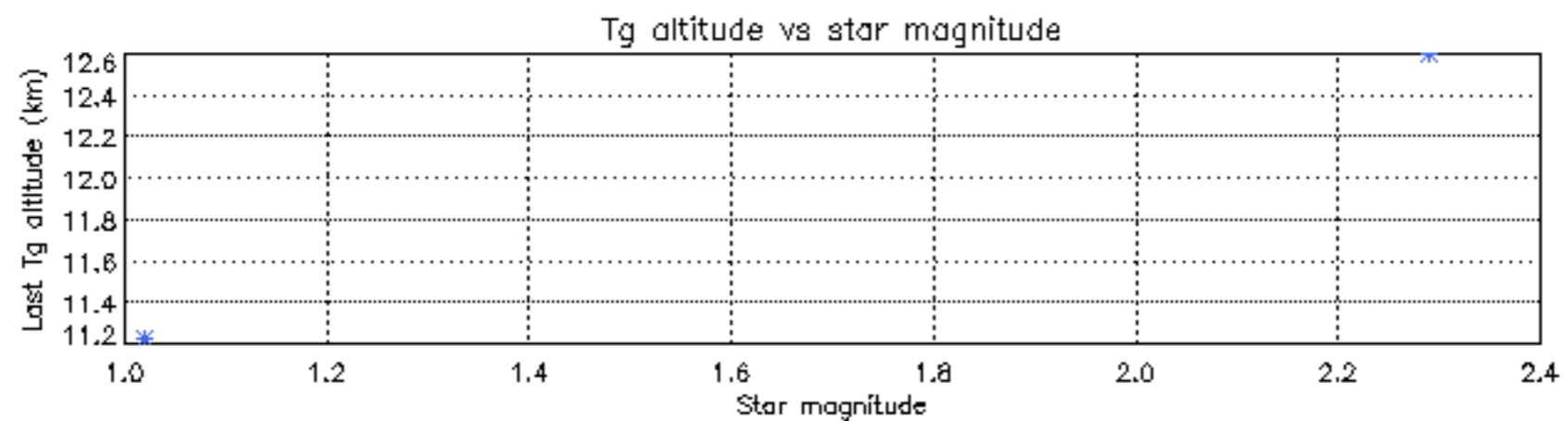
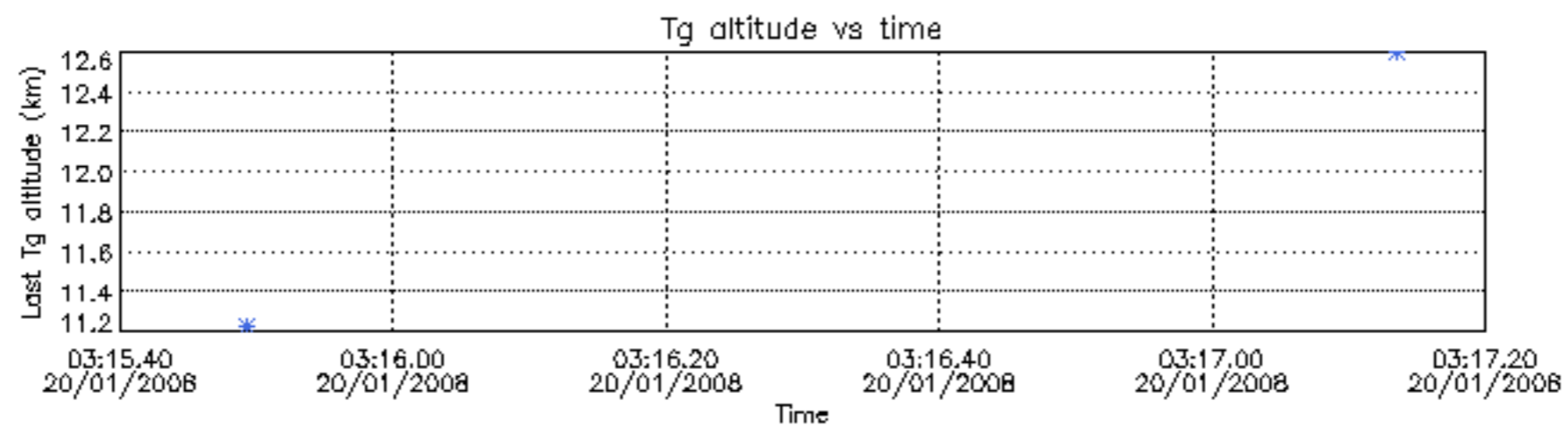
Tangent altitude at which the star is lost

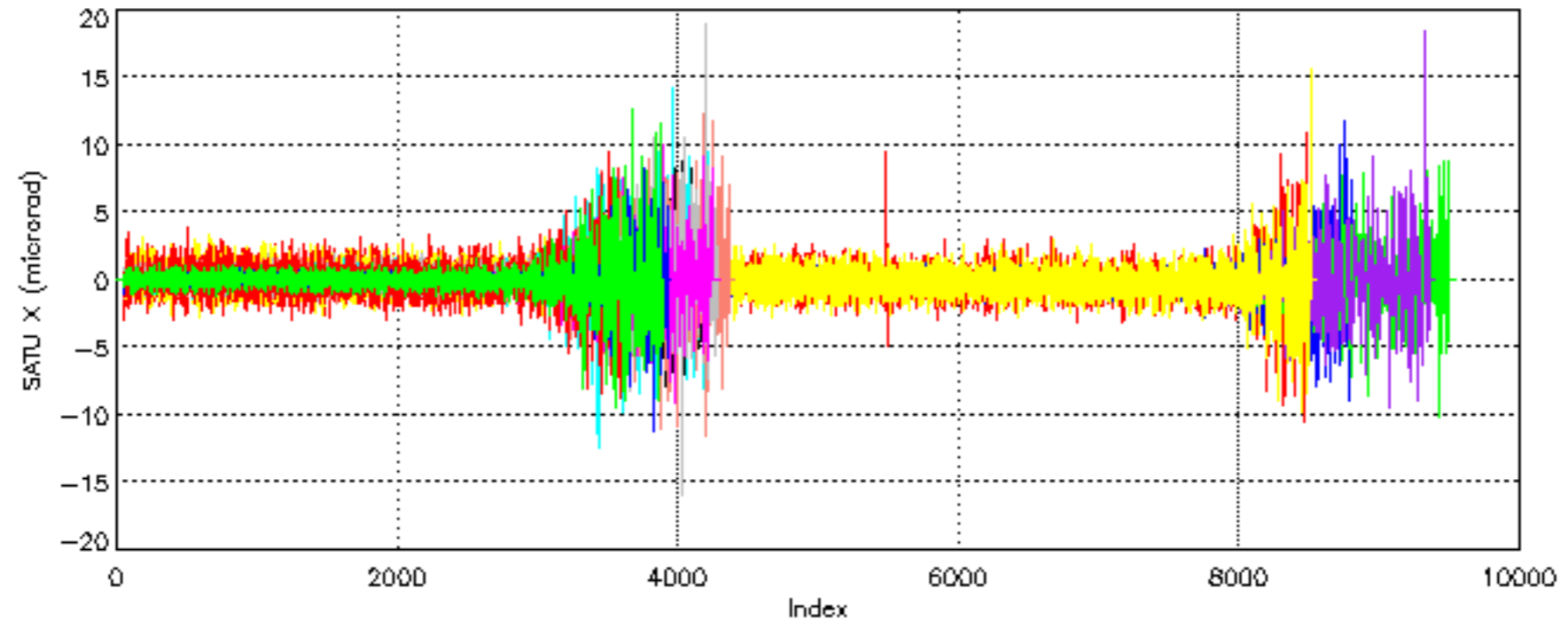


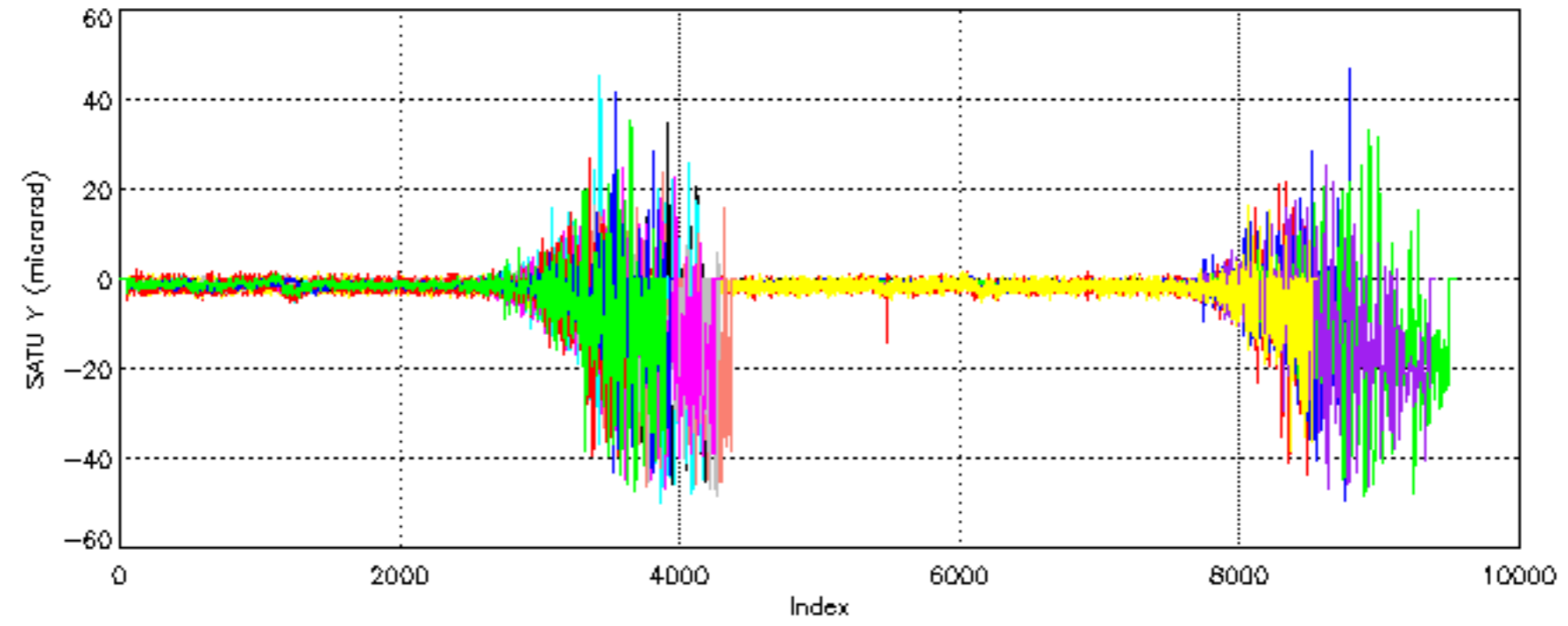
Tangent altitude at which the star is lost

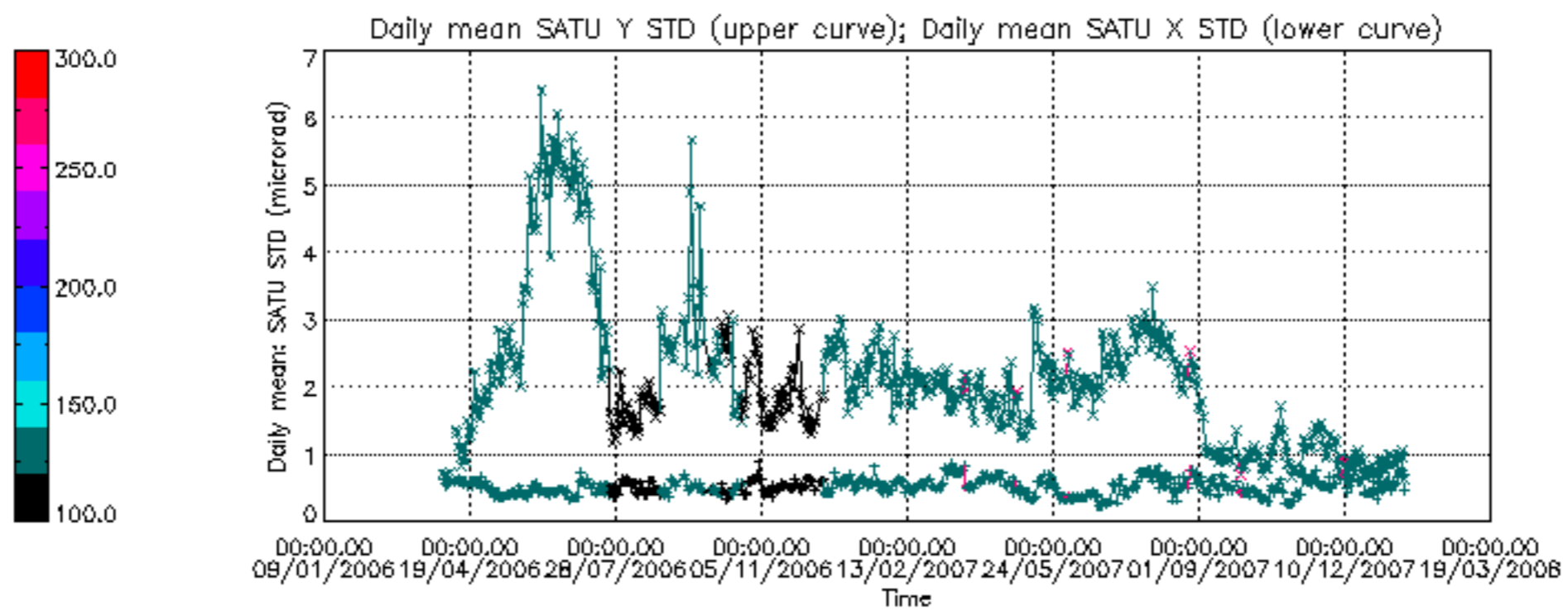


Tangent altitude at which the star is lost









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 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
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 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
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 16; 545.7; 01-JAN-2008 03:30:31; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30519
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 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
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 28; 6667.6; 01-JAN-2008 15:16:08; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30525
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29; 6763.1; 01-JAN-2008 16:58:20; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;30526
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3; 1570.0; 01-JAN-2008 17:12:23; Dark ; 42.5; 47; 2Bet CMa ; 1.98; 28000;occ; 85; 0;30527
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23; 5757.4; 01-JAN-2008 18:22:10; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 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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4; 1770.5; 01-JAN-2008 18:56:19; Dark ; 34.5; 7; 19Bet Ori ; 0.10; 14000;occ; 69; 0;30528
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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13; 3922.3; 01-JAN-2008 19:32:11; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;30528
14; 4049.3; 01-JAN-2008 19:34:18; Bright; 32.5; 130; 23Bet Dra ; 2.80; 5800;occ; 65; 0;30528
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16; 4546.9; 01-JAN-2008 19:42:35; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;30528
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18; 5031.0; 01-JAN-2008 19:50:40; Bright; 33.5; 120; 1Del Oph ; 2.73; 3200;occ; 67; 0;30528
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5; 1882.0; 01-JAN-2008 20:38:46; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;30529
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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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11; 3423.4; 01-JAN-2008 21:04:28; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30529
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15; 4422.7; 01-JAN-2008 21:21:07; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30529
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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
22; 5958.5; 04-JAN-2008 08:27:41; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;30564
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
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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
30; 7223.2; 04-JAN-2008 08:48:45; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30564
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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3; 2031.6; 04-JAN-2008 09:02:49; Dark ; 46.0; 14; 58Alp Ori ; 0.87; 3000;occ; 92; 0;30565
4; 2208.4; 04-JAN-2008 09:05:46; Bright; 42.5; 13; 87Alp Tau ; 0.87; 3800;occ; 85; 0;30565
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6; 2474.6; 04-JAN-2008 09:10:13; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30565
7; 2558.2; 04-JAN-2008 09:11:36; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;30565
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
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13; 4428.7; 04-JAN-2008 09:42:47; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 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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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
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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
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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
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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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29; 6689.3; 04-JAN-2008 12:01:03; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30566
30; 6780.4; 04-JAN-2008 12:02:34; Dark ; 50.0; 41; Eps Car ; 1.86; 4100;occ; 100; 0;30566
31; 7025.9; 04-JAN-2008 12:06:40; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;30566
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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6; 2395.4; 04-JAN-2008 12:30:05; Bright; 36.0; 28; 12Bet Tau ; 1.65; 15200;occ; 72; 0;30567
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
11; 3686.6; 04-JAN-2008 12:51:36; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30567
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
14; 4429.1; 04-JAN-2008 13:03:59; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30567
15; 4553.9; 04-JAN-2008 13:06:04; Bright; 46.5; 67; 5Alp CrB ; 2.22; 11000;occ; 93; 0;30567
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17; 5041.0; 04-JAN-2008 13:14:11; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30567
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4; -260.4; 04-JAN-2008 13:26:25; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 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
11; 654.1; 04-JAN-2008 13:41:40; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30568
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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4; 2031.5; 04-JAN-2008 14:04:37; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;30568
5; 2209.0; 04-JAN-2008 14:07:35; Bright; 43.0; 13; 87Alp Tau ; 0.87; 3800;occ; 86; 0;30568
6; 2395.5; 04-JAN-2008 14:10:41; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30568
7; 2474.9; 04-JAN-2008 14:12:00; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30568
8; 2557.6; 04-JAN-2008 14:13:23; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;30568
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10; 3423.9; 04-JAN-2008 14:27:49; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;30568
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22; 5776.1; 04-JAN-2008 15:07:02; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;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
30; 6781.4; 04-JAN-2008 15:23:47; Dark ; 40.5; 41; Eps Car ; 1.86; 4100;occ; 81; 0;30568
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7; 2395.4; 04-JAN-2008 15:51:17; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30569
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
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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
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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
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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
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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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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
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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
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31; 6782.2; 04-JAN-2008 18:45:00; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;30570
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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
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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
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31; 6692.0; 04-JAN-2008 20:24:06; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30571
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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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16; 414.8; 05-JAN-2008 03:02:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30576
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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
 29; 6786.3; 05-JAN-2008 11:31:03; Dark ; 48.5; 41; Eps Car ; 1.86; 4100;occ; 97; 0;30580
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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
 26; 6706.0; 06-JAN-2008 17:40:30; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30598
 27; 6793.9; 06-JAN-2008 17:41:57; Dark ; 39.5; 41; Eps Car ; 1.86; 4100;occ; 79; 0;30598
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 16; 4434.0; 06-JAN-2008 18:43:14; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 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
 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
 28; 6706.4; 06-JAN-2008 19:21:06; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30599
 29; 6794.2; 06-JAN-2008 19:22:34; Dark ; 39.5; 41; Eps Car ; 1.86; 4100;occ; 79; 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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13; 3682.6; 06-JAN-2008 20:11:18; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;30600
14; 3924.4; 06-JAN-2008 20:15:20; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30600
15; 4061.1; 06-JAN-2008 20:17:37; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 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
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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12; 1361.1; 06-JAN-2008 22:53:48; Dark ; 41.0; 23; 21Eps CMa ; 1.50; 26000;occ; 82; 0;30602
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13; 1361.3; 07-JAN-2008 00:34:24; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;30603
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16; 1888.0; 07-JAN-2008 00:43:11; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;30603
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 8; 3424.1; 07-JAN-2008 07:51:11; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;30607
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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
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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
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 3; 2031.4; 07-JAN-2008 09:08:34; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;30608
 4; 2268.2; 07-JAN-2008 09:12:31; Bright; 35.5; 176; 23Zet Tau ; 3.02; 22000;occ; 71; 0;30608
 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
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11; 4062.3; 07-JAN-2008 09:42:25; Bright; 50.5; 130; 23Bet Dra ; 2.80; 5800;occ; 101; 0;30608
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
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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
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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
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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
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23; 6613.6; 07-JAN-2008 12:05:32; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30609
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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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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
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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
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12; 4062.5; 07-JAN-2008 13:03:37; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30610
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14; 4614.7; 07-JAN-2008 13:12:49; Bright; 53.0; 127; 27Bet Her ; 2.78; 4700;occ; 106; 0;30610
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 18; 5707.2; 07-JAN-2008 13:31:02; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30610
 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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 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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 9; 3424.2; 07-JAN-2008 14:33:35; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;30611
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 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
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 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
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 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
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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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 18; 5381.8; 07-JAN-2008 16:46:48; Dark ; 42.5; 80; 7Del Sco ; 2.32; 30000;occ; 85; 0;30612
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 28; 6535.3; 10-JAN-2008 20:32:59; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;30657
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14;	5071.9;	11-JAN-2008	07:52:47;	Bright;		37.5;	120;	1Del Oph	;	2.73;	3200;occ;	75;	0;	30664
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16;	5349.6;	11-JAN-2008	07:57:25;	Dark	;	41.0;	97;	8Bet1Sco	;	2.56;	30000;occ;	82;	0;	30664
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23;	6297.6;	11-JAN-2008	08:13:13;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30664
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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
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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
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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
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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
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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
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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
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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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22;	2188.1;	24-JAN-2008	22:01:29;	Bright;		38.0;	44;	24Gam Gem	;	1.93;	11000;occ;	76;	0;	30859
23;	2294.6;	24-JAN-2008	22:03:15;	Bright;		38.5;	151;	13Mu Gem	;	2.89;	3000;occ;	77;	0;	30859
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29;	4288.2;	24-JAN-2008	22:36:29;	Bright;		34.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	69;	0;	30859
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14;	652.4;	24-JAN-2008	08:11:06;	Dark	;	37.5;	29;	Bet Car	;	1.67;	10200;occ;	75;	0;	30851
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21;	1496.7;	24-JAN-2008	08:25:10;	Dark	;	36.0;	179;	240mi2CMA	;	3.03;	24000;occ;	72;	0;	30851
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7;	2547.4;	24-JAN-2008	08:42:41;	Bright;		35.0;	107;	37The Aur	;	2.65;	11000;occ;	70;	0;	30851
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4; 2295.4; 25-JAN-2008 09:47:28; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;30866
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6; 2549.1; 25-JAN-2008 09:51:41; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;30866
7; 2677.3; 25-JAN-2008 09:53:49; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;30866
8; 3426.8; 25-JAN-2008 10:06:19; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30866
9; 4085.7; 25-JAN-2008 10:17:18; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;30866

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 12; 4897.2; 25-JAN-2008 10:30:49; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;30866
 13; 5269.9; 25-JAN-2008 10:37:02; Dark ; 39.5; 86; 35Eta Oph ; 2.43; 10200;occ; 79; 0;30866
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 16; 5681.0; 25-JAN-2008 10:43:53; Dark ; 38.0; 40; The Sco ; 1.86; 7100;occ; 76; 0;30866
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 19; 6092.3; 25-JAN-2008 10:50:44; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;30866
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 23; 6692.7; 25-JAN-2008 11:00:45; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30866
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 25; 6932.6; 25-JAN-2008 11:04:45; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;30866
 26; 7088.9; 25-JAN-2008 11:07:21; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;30866
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 25; 6932.9; 25-JAN-2008 12:45:21; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;30867
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 22; 6179.3; 25-JAN-2008 15:53:59; Dark ; 52.5; 4; Alp1Cen ; -0.01; 5800;occ; 105; 0;30869
 23; 6352.6; 25-JAN-2008 15:56:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30869
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