

# GOMOS Daily Report 25-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	27JAN2008 05:35:25
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (25JAN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (26JAN2008 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)

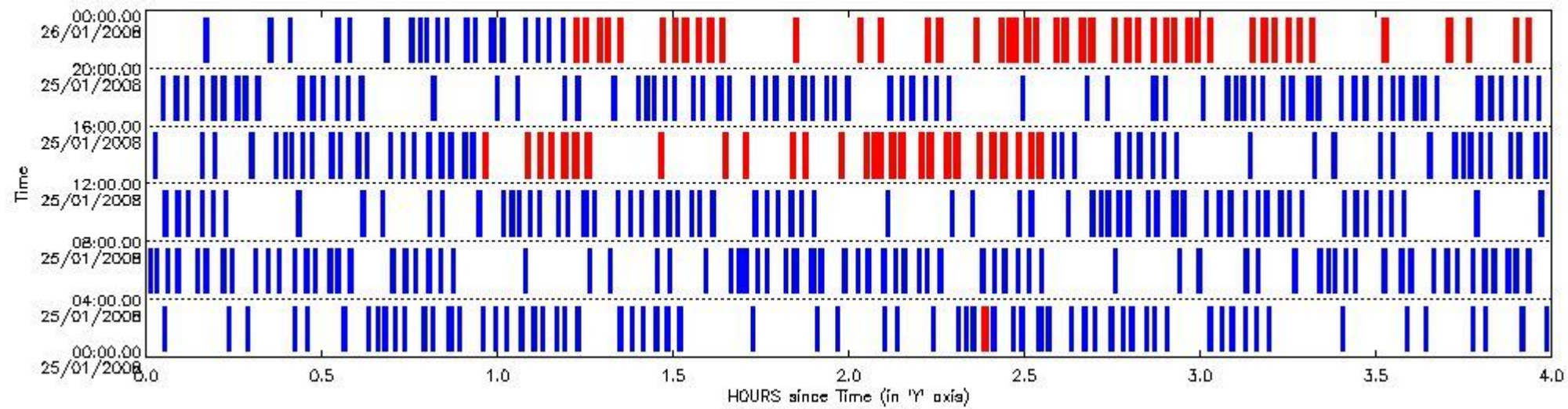
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
25-JAN-2008 02:22:46	AlpAra	147	30861
25-JAN-2008 12:57:32	9AlpCMa	1	30868
25-JAN-2008 13:04:44	58AlpOri	14	30868
25-JAN-2008 13:06:51	24GamGem	44	30868
25-JAN-2008 13:08:38	13MuGem	151	30868
25-JAN-2008 13:10:57	12BetTau	28	30868
25-JAN-2008 13:12:52	37TheAur	107	30868
25-JAN-2008 13:15:00	34BetAur	42	30868
25-JAN-2008 13:27:29	1AlpUMi	49	30868
25-JAN-2008 13:38:28	23BetDra	130	30868
25-JAN-2008 13:41:52	3AlpLyr	5	30868
25-JAN-2008 13:49:54	55AlpOph	59	30868
25-JAN-2008 13:52:00	60BetOph	126	30868
25-JAN-2008 13:58:13	35EtaOph	86	30868
25-JAN-2008 14:02:28	23TauSco	136	30868

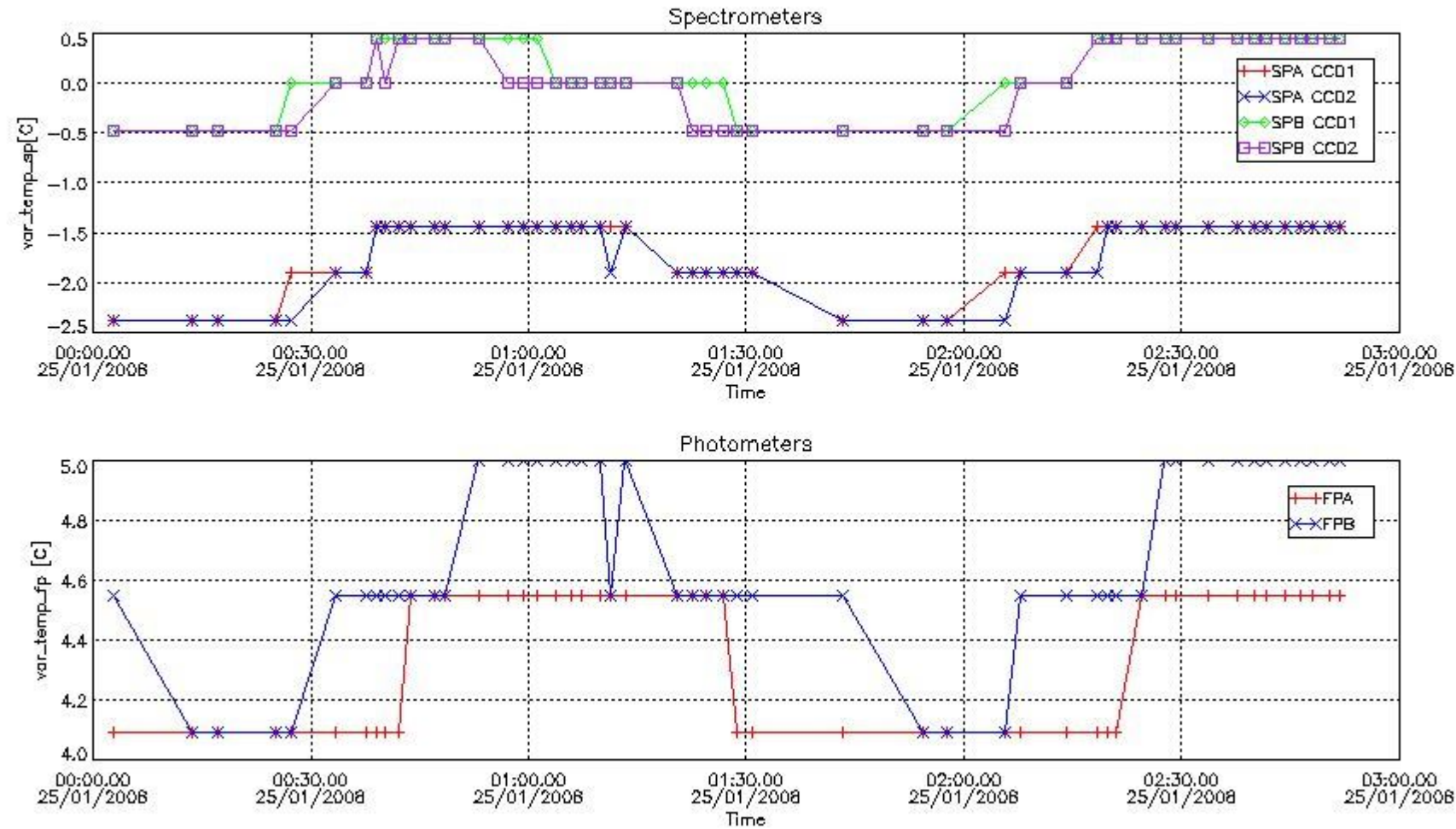
25-JAN-2008 14:03:56	KapSco	85	30868
25-JAN-2008 14:05:04	TheSco	40	30868
25-JAN-2008 14:06:59	AlpAra	147	30868
25-JAN-2008 14:08:34	BetAra	141	30868
25-JAN-2008 14:11:55	BetTrA	134	30869
25-JAN-2008 14:13:21	Alp1Cen	4	30869
25-JAN-2008 14:16:15	DSA1028	0	30869
25-JAN-2008 14:17:55	Alp1Cru	12	30869
25-JAN-2008 14:21:56	BetCar	29	30869
25-JAN-2008 14:24:07	lotCar	71	30869
25-JAN-2008 14:25:56	DelVel	46	30869
25-JAN-2008 14:28:32	Gam2Vel	34	30869
25-JAN-2008 14:30:38	ZetPup	70	30869
25-JAN-2008 14:32:07	PiPup	117	30869
25-JAN-2008 21:13:03	ZetPup	70	30873
25-JAN-2008 21:14:32	PiPup	117	30873
25-JAN-2008 21:17:00	21EpsCMa	23	30873
25-JAN-2008 21:18:23	24Omi2CMa	179	30873
25-JAN-2008 21:20:32	9AlpCMa	1	30873
25-JAN-2008 21:27:45	58AlpOri	14	30873
25-JAN-2008 21:29:51	24GamGem	44	30873
25-JAN-2008 21:31:38	13MuGem	151	30873
25-JAN-2008 21:33:58	12BetTau	28	30873
25-JAN-2008 21:35:52	37TheAur	107	30873
25-JAN-2008 21:38:00	34BetAur	42	30873
25-JAN-2008 21:50:29	1AlpUMi	49	30873
25-JAN-2008 22:01:28	23BetDra	130	30873
25-JAN-2008 22:04:53	3AlpLyr	5	30873
25-JAN-2008 22:12:55	55AlpOph	59	30873
25-JAN-2008 22:15:01	60BetOph	126	30873
25-JAN-2008 22:21:15	35EtaOph	86	30873
25-JAN-2008 22:25:31	23TauSco	136	30873
25-JAN-2008 22:26:57	KapSco	85	30873
25-JAN-2008 22:28:05	TheSco	40	30873
25-JAN-2008 22:29:59	AlpAra	147	30873
25-JAN-2008 22:31:34	BetAra	141	30873
25-JAN-2008 22:34:57	BetTrA	134	30874
25-JAN-2008 22:36:23	Alp1Cen	4	30874
25-JAN-2008 22:39:16	DSA1028	0	30874
25-JAN-2008 22:40:57	Alp1Cru	12	30874
25-JAN-2008 22:44:57	BetCar	29	30874
25-JAN-2008 22:47:09	lotCar	71	30874
25-JAN-2008 22:48:57	DelVel	46	30874
25-JAN-2008 22:51:33	Gam2Vel	34	30874
25-JAN-2008 22:53:39	ZetPup	70	30874
25-JAN-2008 22:55:08	PiPup	117	30874
25-JAN-2008 22:57:36	21EpsCMa	23	30874
25-JAN-2008 22:58:59	24Omi2CMa	179	30874
25-JAN-2008 23:01:08	9AlpCMa	1	30874
25-JAN-2008 23:08:21	58AlpOri	14	30874
25-JAN-2008 23:10:27	24GamGem	44	30874
25-JAN-2008 23:12:14	13MuGem	151	30874
25-JAN-2008 23:14:35	12BetTau	28	30874
25-JAN-2008 23:16:28	37TheAur	107	30874
25-JAN-2008 23:18:36	34BetAur	42	30874
25-JAN-2008 23:31:05	1AlpUMi	49	30874
25-JAN-2008 23:42:04	23BetDra	130	30874
25-JAN-2008 23:45:29	3AlpLyr	5	30874
25-JAN-2008 23:53:31	55AlpOph	59	30874

## 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_1PNPDE20080125_000243_000000342065_00245_30860_0809.N1	25-JAN-2008 00:02:43	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	30860	No
2	GOM_TRA_1PNPDE20080125_001342_000000342065_00245_30860_0810.N1	25-JAN-2008 00:13:42	Bright	34.000	130	23Bet Dra	2.7990	5800.0	68	30860	No
3	GOM_TRA_1PNPDE20080125_001705_000000342065_00245_30860_0811.N1	25-JAN-2008 00:17:05	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	30860	No
4	GOM_TRA_1PNPDE20080125_002506_000000342065_00245_30860_0812.N1	25-JAN-2008 00:25:06	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	30860	No
5	GOM_TRA_1PNPDE20080125_002712_000000342065_00245_30860_0813.N1	25-JAN-2008 00:27:12	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	30860	No
6	GOM_TRA_1PNPDE20080125_003324_000000402065_00245_30860_0814.N1	25-JAN-2008 00:33:24	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	30860	No
7	GOM_TRA_1PNPDE20080125_003738_000000392065_00245_30860_1475.N1	25-JAN-2008 00:37:38	Twilight	38.500	136	23Tau Sco	2.8220	30000.	77	30860	No
8	GOM_TRA_1PNPDE20080125_003908_000000372065_00245_30860_1476.N1	25-JAN-2008 00:39:08	Twilight	37.000	85	Kap Sco	2.4070	28000.	74	30860	No
9	GOM_TRA_1PNPDE20080125_004016_000000462065_00245_30860_1477.N1	25-JAN-2008 00:40:16	Dark	46.000	40	The Sco	1.8590	7100.0	92	30860	No
10	GOM_TRA_1PNPDE20080125_004211_000000362065_00245_30860_1478.N1	25-JAN-2008 00:42:11	Dark	36.000	147	Alp Ara	2.8770	26000.	72	30860	No
11	GOM_TRA_1PNPDE20080125_004346_000000402065_00245_30860_1479.N1	25-JAN-2008 00:43:46	Dark	39.500	141	Bet Ara	2.8400	4600.0	79	30860	No
12	GOM_TRA_1PNPDE20080125_004707_000000372065_00246_30861_1480.N1	25-JAN-2008 00:47:07	Dark	36.500	134	Bet TrA	2.8100	6600.0	73	30861	No
13	GOM_TRA_1PNPDE20080125_004831_000000482065_00246_30861_1481.N1	25-JAN-2008 00:48:31	Dark	47.500	4	Alp1Cen	-0.010000	5800.0	95	30861	No
14	GOM_TRA_1PNPDE20080125_005304_000000452065_00246_30861_1482.N1	25-JAN-2008 00:53:04	Dark	44.500	12	Alp1Cru	0.77500	30000.	89	30861	No
15	GOM_TRA_1PNPDE20080125_005707_000000372065_00246_30861_1483.N1	25-JAN-2008 00:57:07	Dark	36.500	29	Bet Car	1.6720	10200.	73	30861	No
16	GOM_TRA_1PNPDE20080125_005918_000000392065_00246_30861_1484.N1	25-JAN-2008 00:59:18	Dark	39.000	71	Iot Car	2.2460	7700.0	78	30861	No
17	GOM_TRA_1PNPDE20080125_010107_000000432065_00246_30861_1485.N1	25-JAN-2008 01:01:07	Dark	42.500	46	Del Vel	1.9540	10600.	85	30861	No
18	GOM_TRA_1PNPDE20080125_010343_000000422065_00246_30861_1486.N1	25-JAN-2008 01:03:43	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	30861	No
19	GOM_TRA_1PNPDE20080125_010550_000000392065_00246_30861_1487.N1	25-JAN-2008 01:05:50	Straylight	38.500	70	Zet Pup	2.2460	39000.	77	30861	No
20	GOM_TRA_1PNPDE20080125_010719_000000432065_00246_30861_1488.N1	25-JAN-2008 01:07:19	Straylight	43.000	117	Pi Pup	2.7060	3800.0	86	30861	No
21	GOM_TRA_1PNPDE20080125_010948_000000412065_00246_30861_1489.N1	25-JAN-2008 01:09:48	Straylight	40.500	23	21Eps CMa	1.5020	26000.	81	30861	No
22	GOM_TRA_1PNPDE20080125_011111_000000382065_00246_30861_1490.N1	25-JAN-2008 01:11:11	Straylight	38.000	179	24Omi2CMa	3.0320	24000.	76	30861	No
23	GOM_TRA_1PNPDE20080125_011321_000000432065_00246_30861_1491.N1	25-JAN-2008 01:13:21	Straylight	42.500	1	9Alp CMa	-1.4400	11000.	85	30861	No
24	GOM_TRA_1PNPDE20080125_012032_000000522065_00246_30861_1492.N1	25-JAN-2008 01:20:32	Bright	52.000	14	58Alp Ori	0.87000	3000.0	104	30861	No
25	GOM_TRA_1PNPDE20080125_012241_000000392065_00246_30861_1493.N1	25-JAN-2008 01:22:41	Bright	39.000	44	24Gam Gem	1.9280	11000.	78	30861	No
26	GOM_TRA_1PNPDE20080125_012427_000000412065_00246_30861_1494.N1	25-JAN-2008 01:24:27	Bright	40.500	151	13Mu Gem	2.8900	3000.0	81	30861	No
27	GOM_TRA_1PNPDE20080125_012645_000000372065_00246_30861_1495.N1	25-JAN-2008 01:26:45	Bright	36.500	28	12Bet Tau	1.6500	15200.	73	30861	No
28	GOM_TRA_1PNPDE20080125_012841_000000352065_00246_30861_1496.N1	25-JAN-2008 01:28:41	Bright	35.000	107	37The Aur	2.6490	11000.	70	30861	No
29	GOM_TRA_1PNPDE20080125_013049_000000362065_00246_30861_1497.N1	25-JAN-2008 01:30:49	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	30861	No
30	GOM_TRA_1PNPDE20080125_014319_000000372065_00246_30861_1498.N1	25-JAN-2008 01:43:19	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	30861	No
31	GOM_TRA_1PNPDE20080125_015418_000000362065_00246_30861_1499.N1	25-JAN-2008 01:54:18	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	30861	No
32	GOM_TRA_1PNPDE20080125_015741_000000332065_00246_30861_1500.N1	25-JAN-2008 01:57:41	Bright	32.500	5	3Alp Lyr	0.033000	11000.	65	30861	No
33	GOM_TRA_1PNPDE20080125_020542_000000352065_00246_30861_1501.N1	25-JAN-2008 02:05:42	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	30861	No
34	GOM_TRA_1PNPDE20080125_020748_000000342065_00246_30861_1502.N1	25-JAN-2008 02:07:48	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	30861	No
35	GOM_TRA_1PNPDE20080125_021400_000000412065_00246_30861_1944.N1	25-JAN-2008 02:14:00	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	30861	No
36	GOM_TRA_1PNPDE20080125_021815_000000402065_00246_30861_1945.N1	25-JAN-2008 02:18:15	Twilight	39.500	136	23Tau Sco	2.8220	30000.	79	30861	No
37	GOM_TRA_1PNPDE20080125_021944_000000372065_00246_30861_1946.N1	25-JAN-2008 02:19:44	Twilight	37.000	85	Kap Sco	2.4070	28000.	74	30861	No
38	GOM_TRA_1PNPDE20080125_022052_000000422065_00246_30861_1947.N1	25-JAN-2008 02:20:52	Dark	42.000	40	The Sco	1.8590	7100.0	84	30861	No
39	GOM_TRA_1PNPDE20080125_022422_000000382065_00246_30861_1948.N1	25-JAN-2008 02:24:22	Dark	37.500	141	Bet Ara	2.8400	4600.0	75	30861	No
40	GOM_TRA_1PNPDE20080125_022743_000000372065_00247_30862_1949.N1	25-JAN-2008 02:27:43	Dark	37.000	134	Bet TrA	2.8100	6600.0	74	30862	No
41	GOM_TRA_1PNPDE20080125_022908_000000412065_00247_30862_1950.N1	25-JAN-2008 02:29:08	Dark	40.500	4	Alp1Cen	-0.010000	5800.0	81	30862	No
42	GOM_TRA_1PNPDE20080125_023341_000000402065_00247_30862_1951.N1	25-JAN-2008 02:33:41	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	30862	No
43	GOM_TRA_1PNPDE20080125_023744_000000372065_00247_30862_1952.N1	25-JAN-2008 02:37:44	Dark	37.000	29	Bet Car	1.6720	10200.	74	30862	No
44	GOM_TRA_1PNPDE20080125_023955_000000372065_00247_30862_1953.N1	25-JAN-2008 02:39:55	Dark	37.000	71	Iot Car	2.2460	7700.0	74	30862	No
45	GOM_TRA_1PNPDE20080125_024143_000000392065_00247_30862_1954.N1	25-JAN-2008 02:41:43	Dark	38.500	46	Del Vel	1.9540	10600.	77	30862	No
46	GOM_TRA_1PNPDE20080125_024420_000000442065_00247_30862_1955.N1	25-JAN-2008 02:44:20	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	30862	No
47	GOM_TRA_1PNPDE20080125_024626_000000402065_00247_30862_1956.N1	25-JAN-2008 02:46:26	Straylight	40.000	70	Zet Pup	2.2460	39000.	80	30862	No
48	GOM_TRA_1PNPDE20080125_024756_000000402065_00247_30862_1957.N1	25-JAN-2008 02:47:56	Straylight	39.500	117	Pi Pup	2.7060	3800.0	79	30862	No
49	GOM_TRA_1PNPDE20080125_025024_000000412065_00247_30862_1958.N1	25-JAN-2008 02:50:24	Straylight	41.000	23	21Eps CMa	1.5020	26000.	82	30862	No
50	GOM_TRA_1PNPDE20080125_025147_000000392065_00247_30862_1959.N1	25-JAN-2008 02:51:47	Straylight	38.500	179	24Omi2CMa	3.0320	24000.	77	30862	No

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





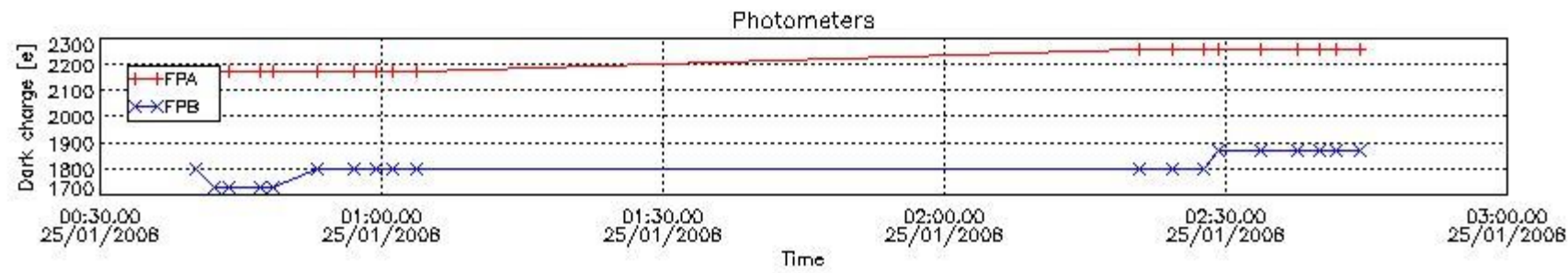
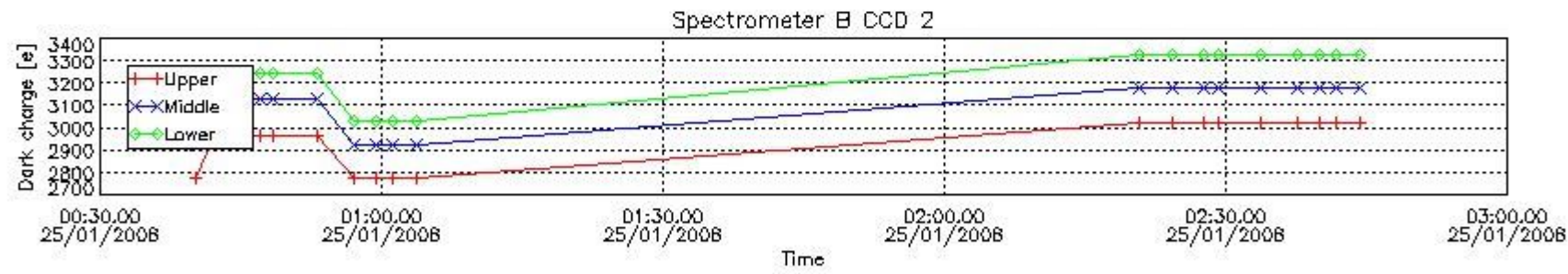
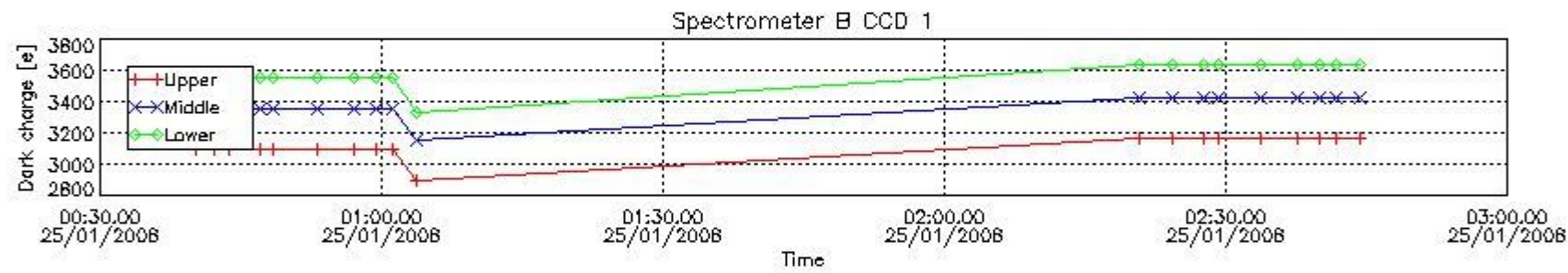
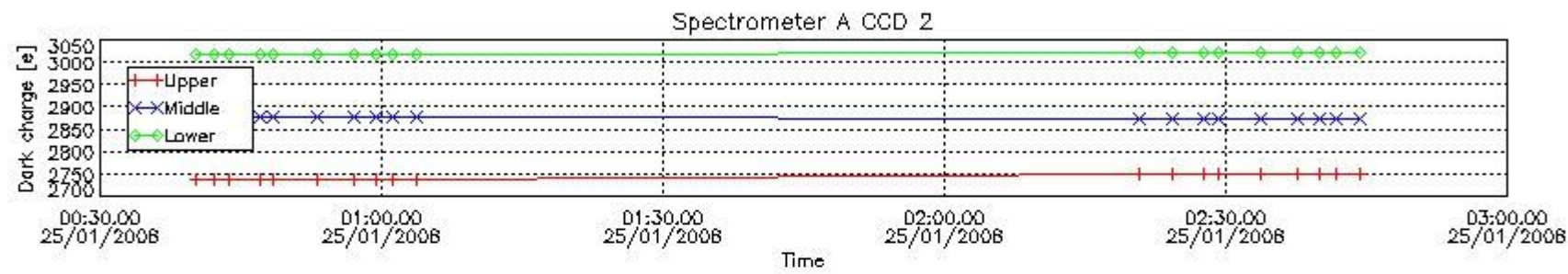
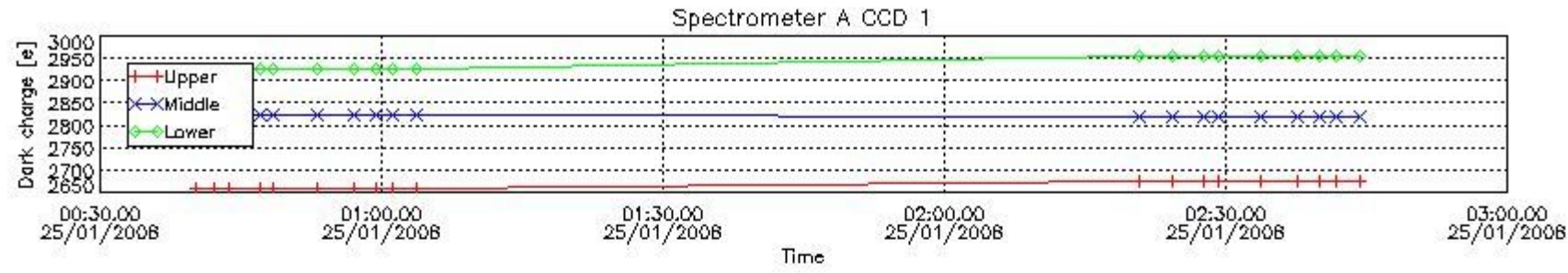
#### 4. Overview of dark signal processing per product

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



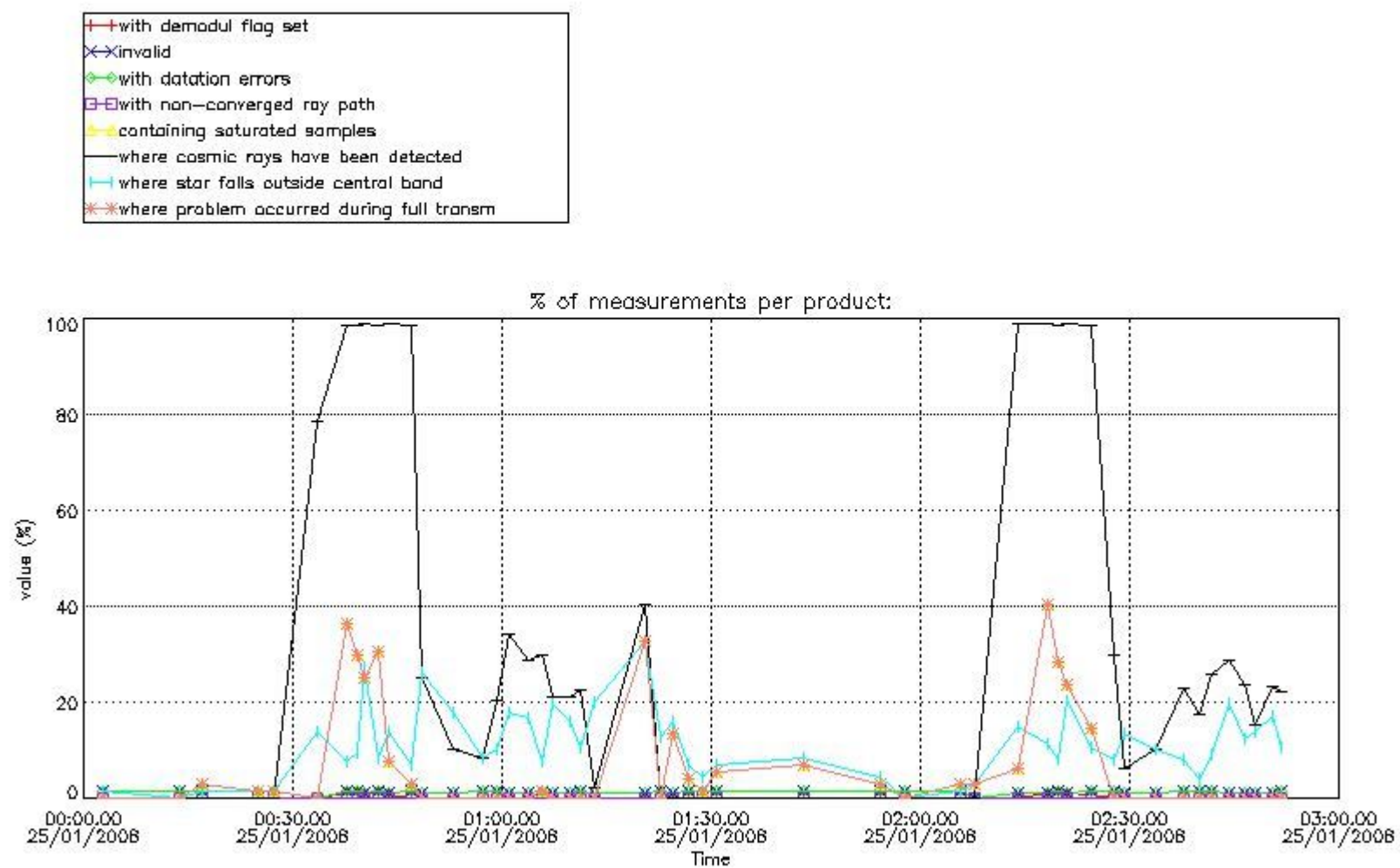
## 5. Demodulation flag and quality information monitoring

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:

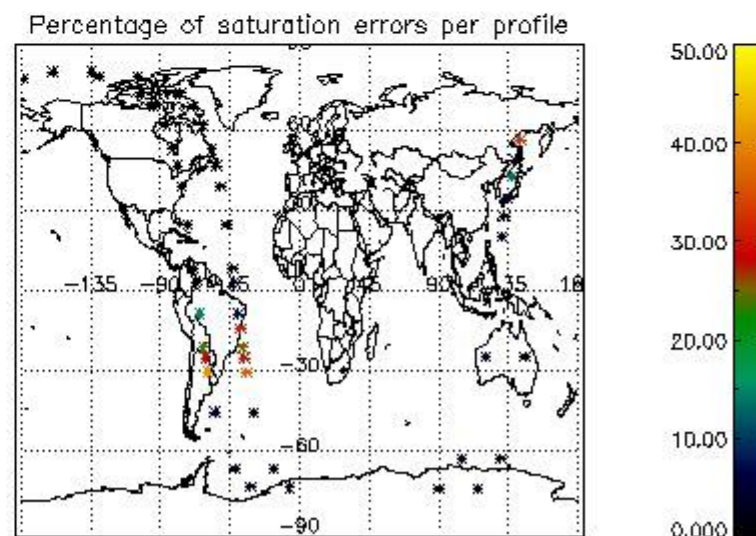
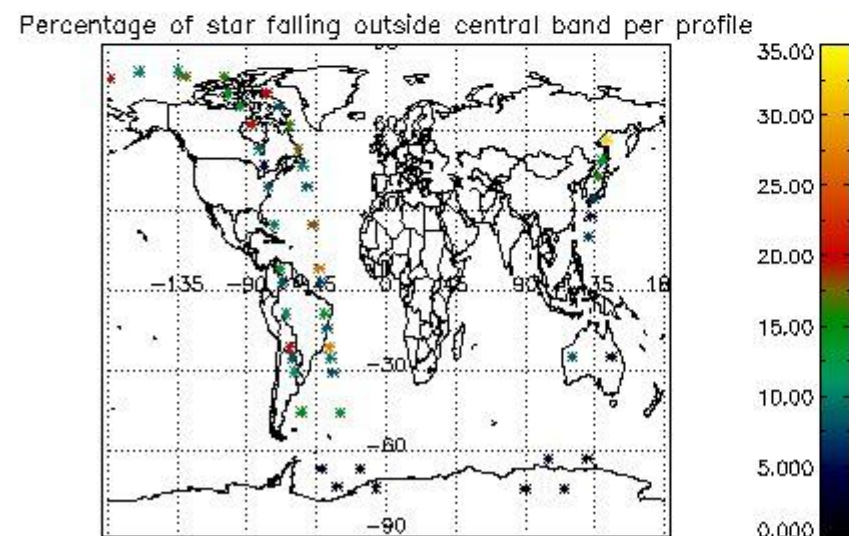
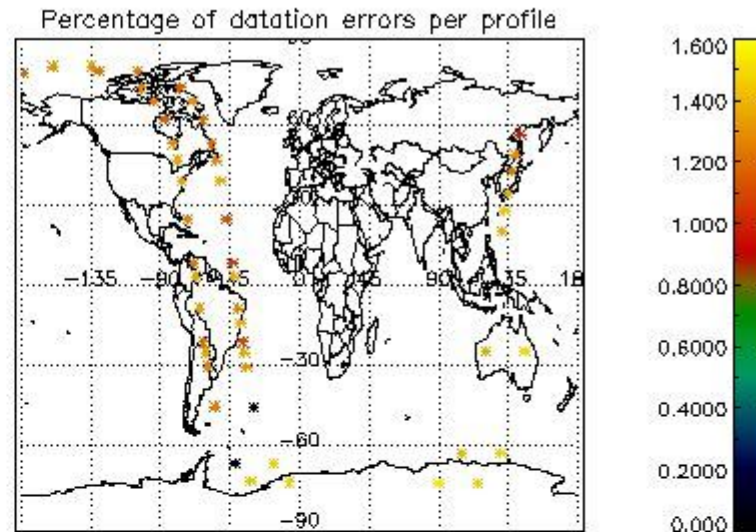
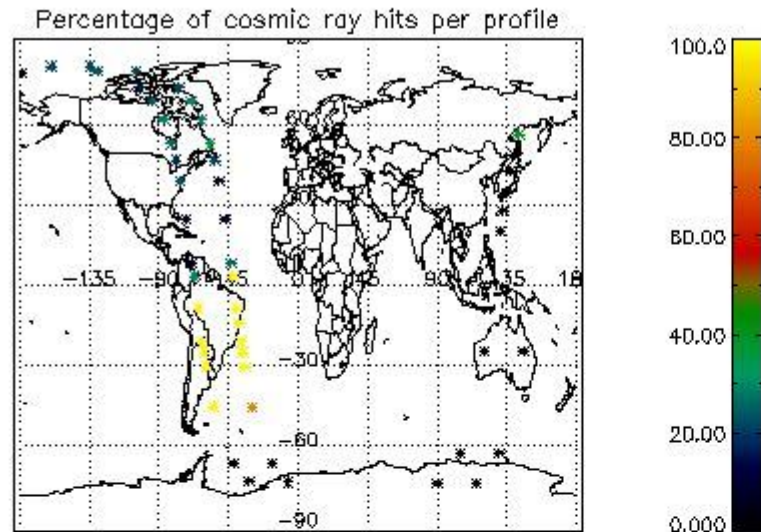
At least one measurement with demodulation flag set:	36.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





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

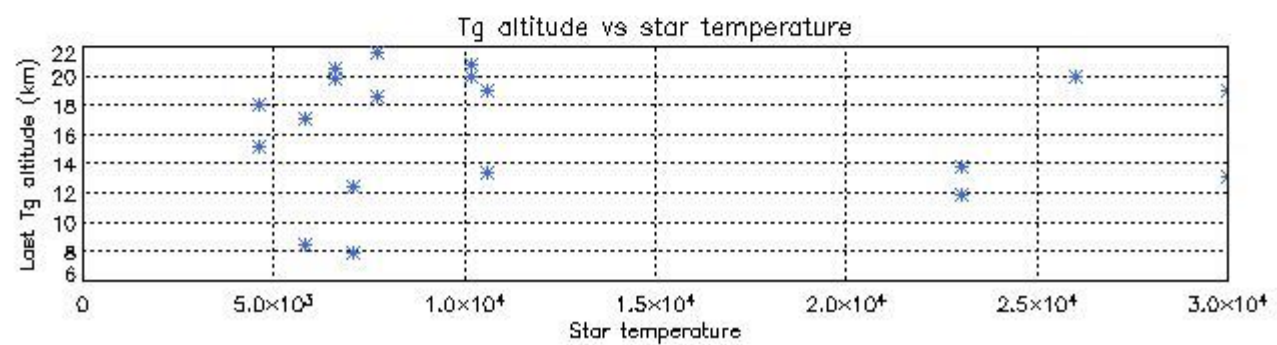
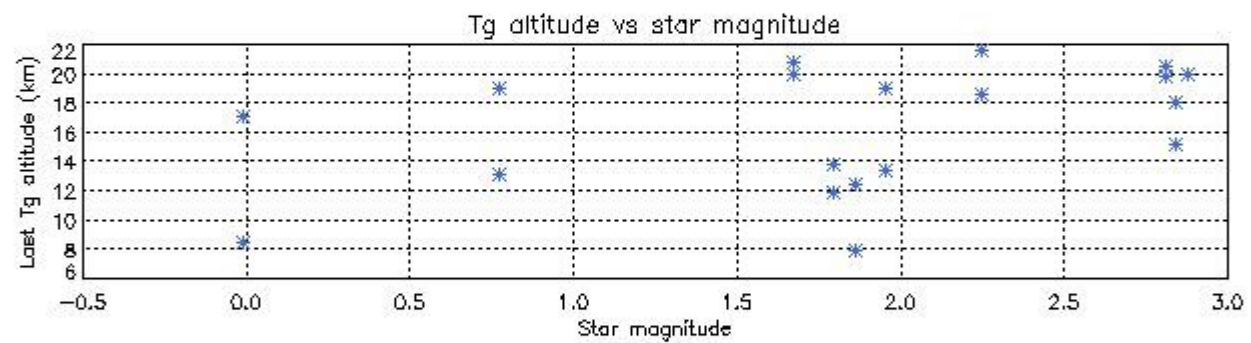
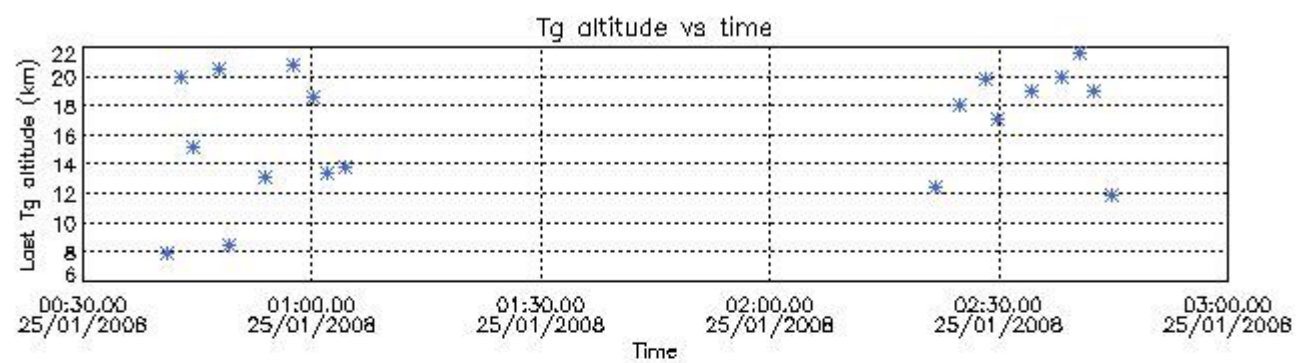
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.330	20.324	17.986
St. deviation:	4.2171	5.8249	0.84844
Maximum:	21.558	27.323	19.121
Minimum:	7.9276	4.6940	17.219
Number of data:	19.000	18.000	4.0000

### 6.2 Plot for DARK limb products

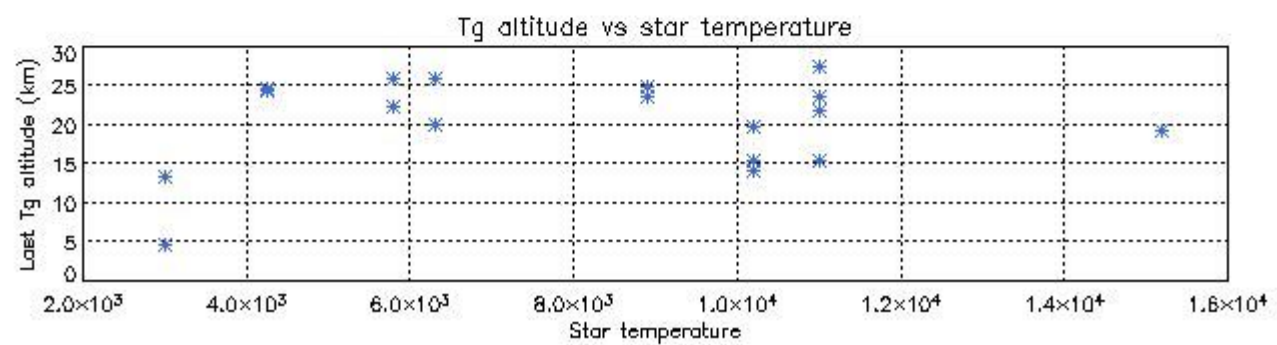
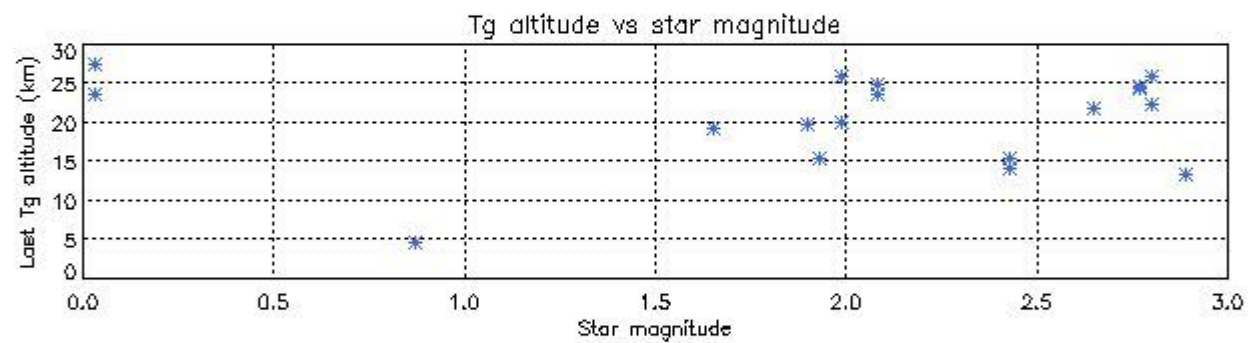
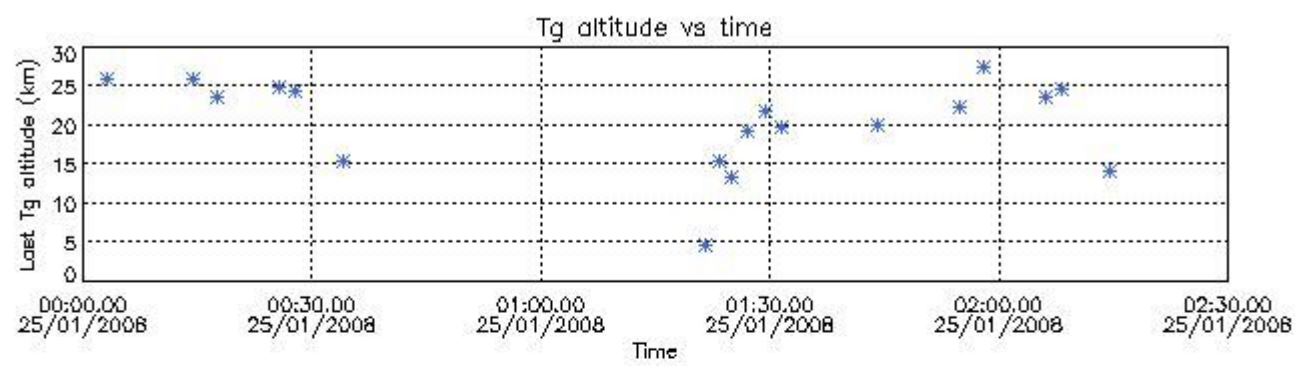


Tangent altitude at which the star is lost



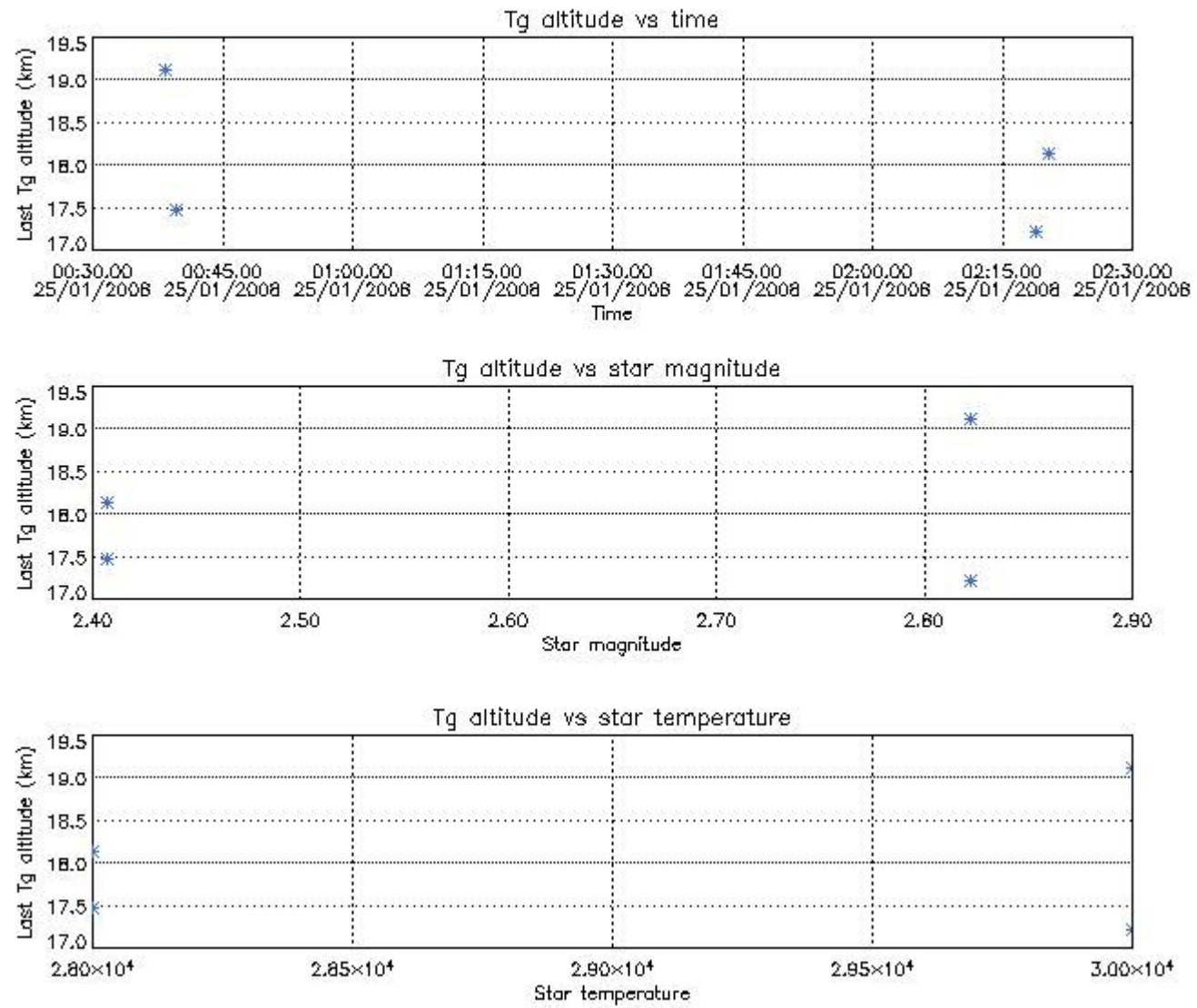
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost



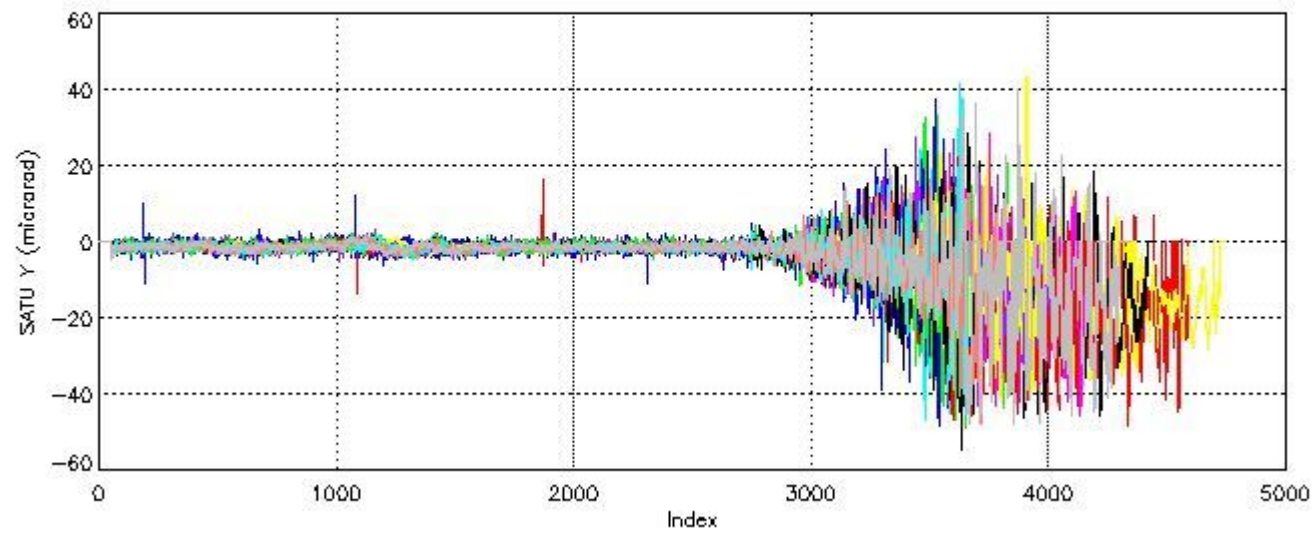
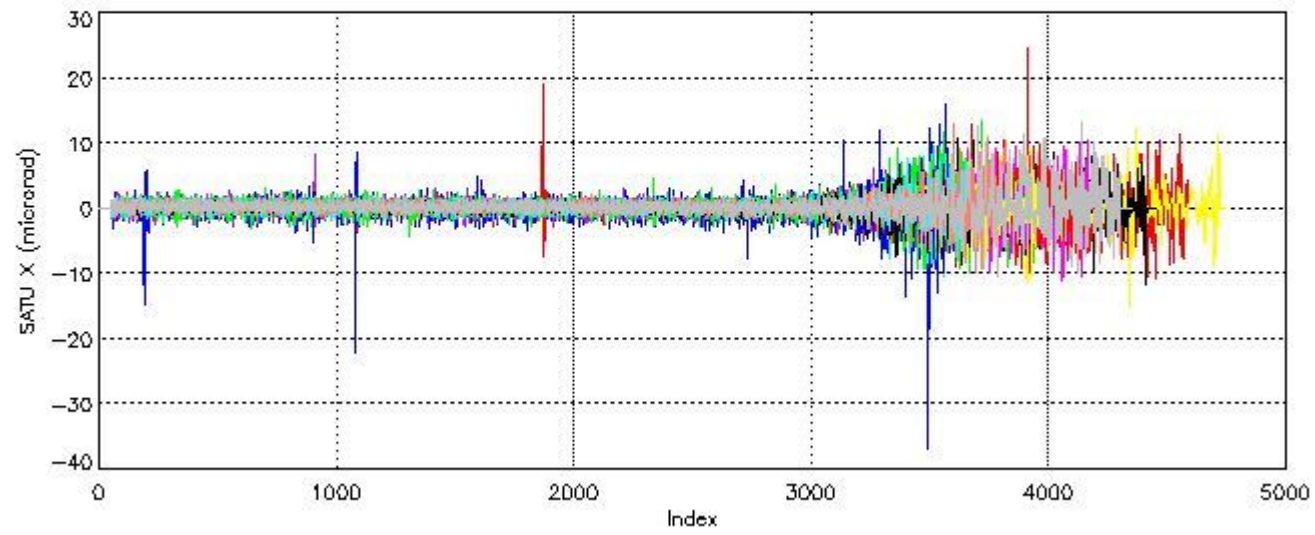
## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.





## 7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.047341	-1.3553	-0.038944	-1.2849
St. deviation:	0.51109	0.75091	0.59645	0.94703
Maximum:	5.7000	10.100	5.1000	3.3000
Minimum:	-14.900	-11.300	-3.8000	-5.4000

Number of data:	16800.	16800.	14850.	14850.
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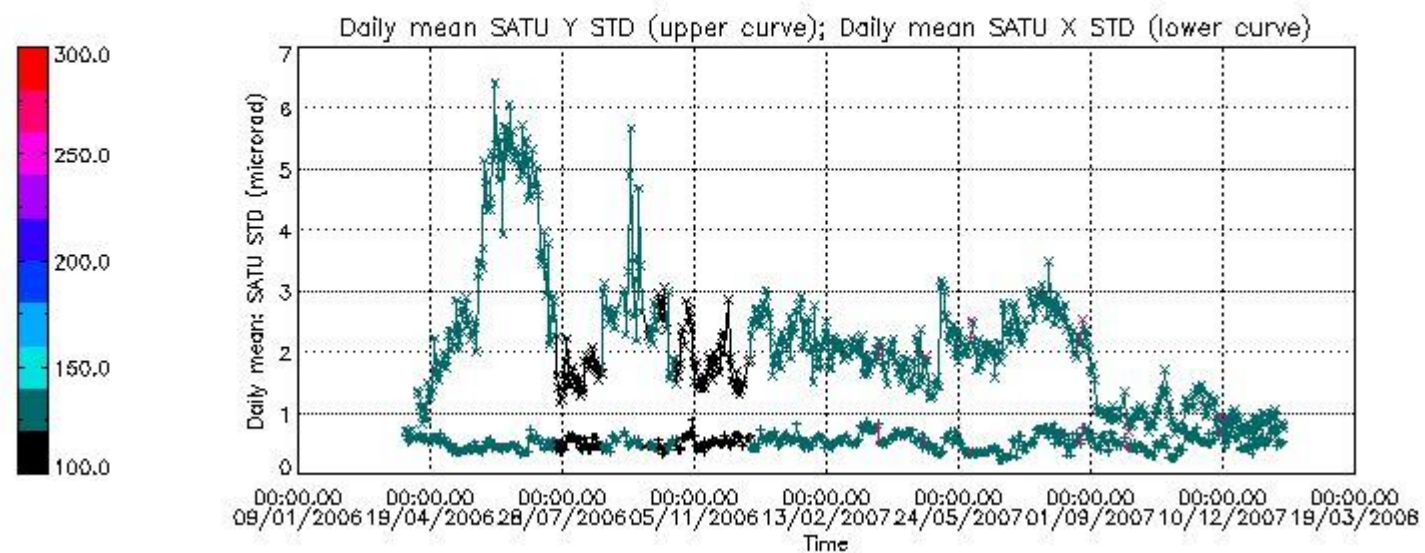
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

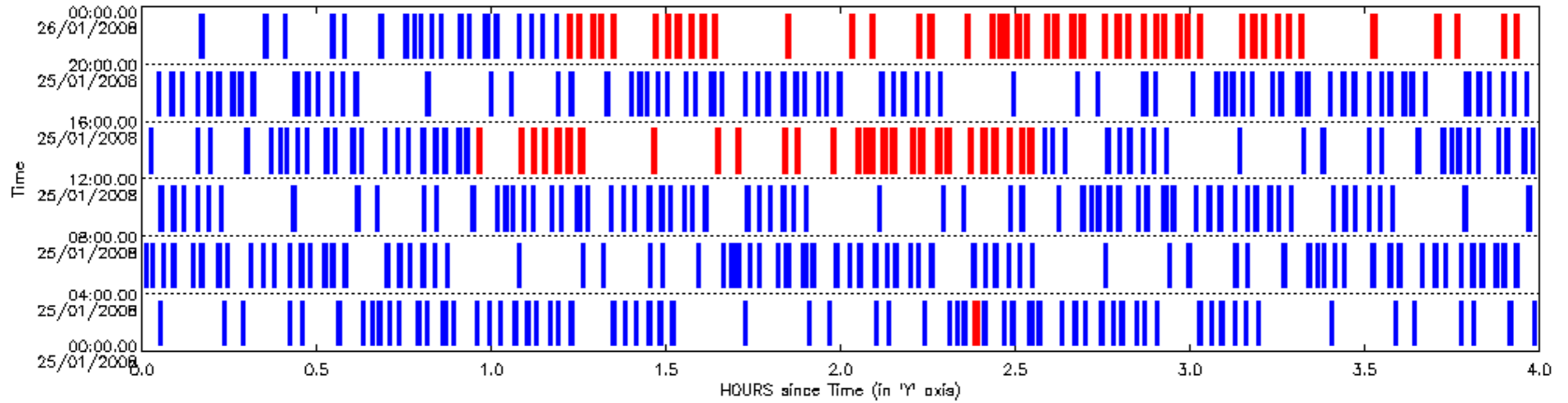
Lower curve: STD of SATU X axis



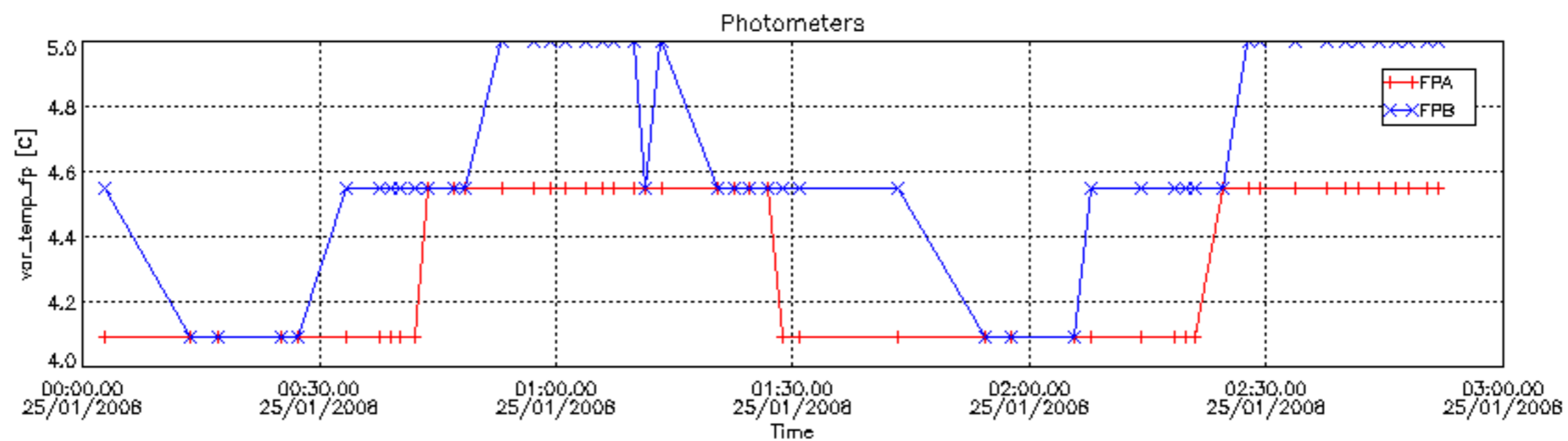
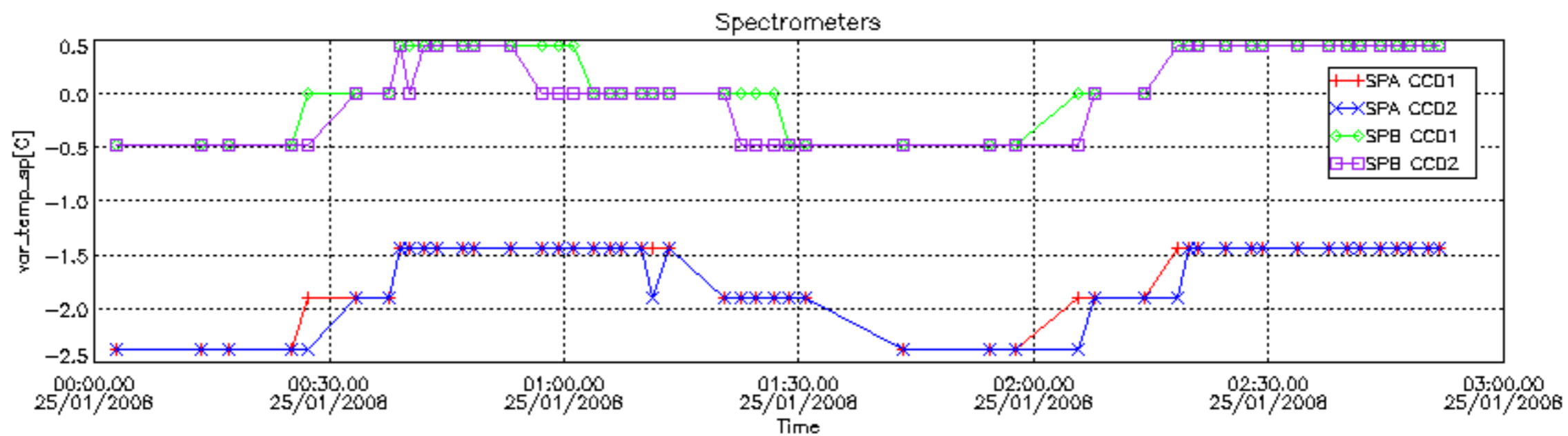
### 8. Auxiliary Data Files used for the production reported in section 2.4

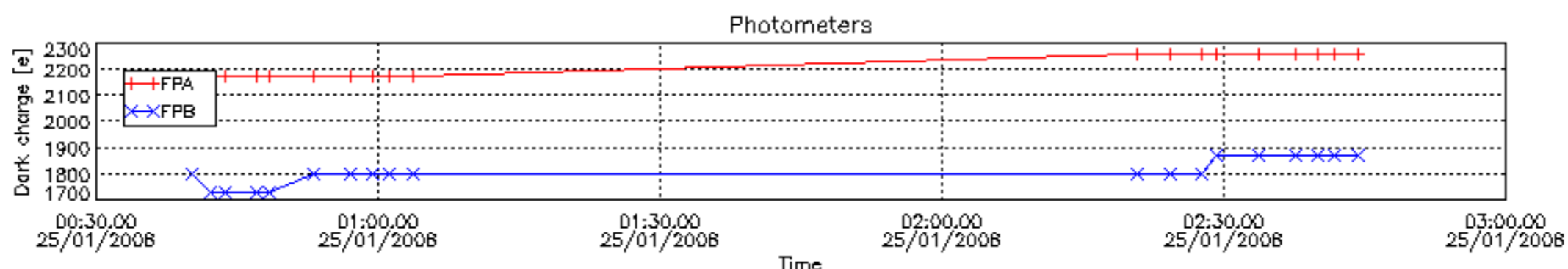
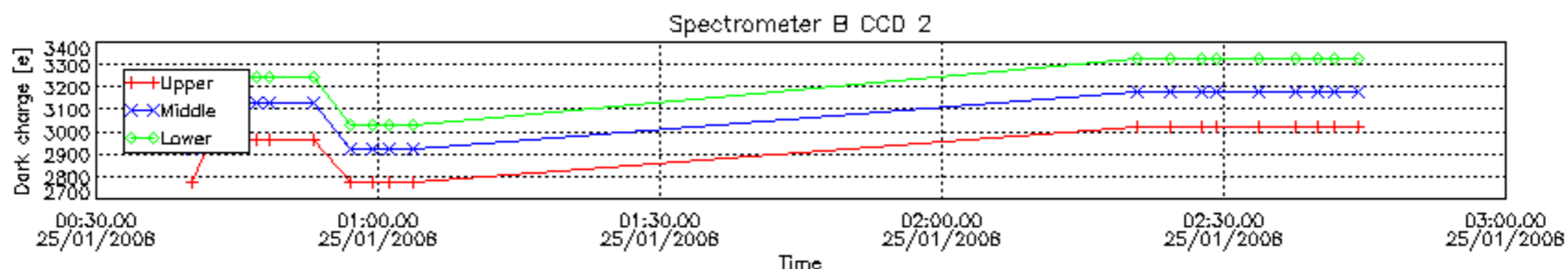
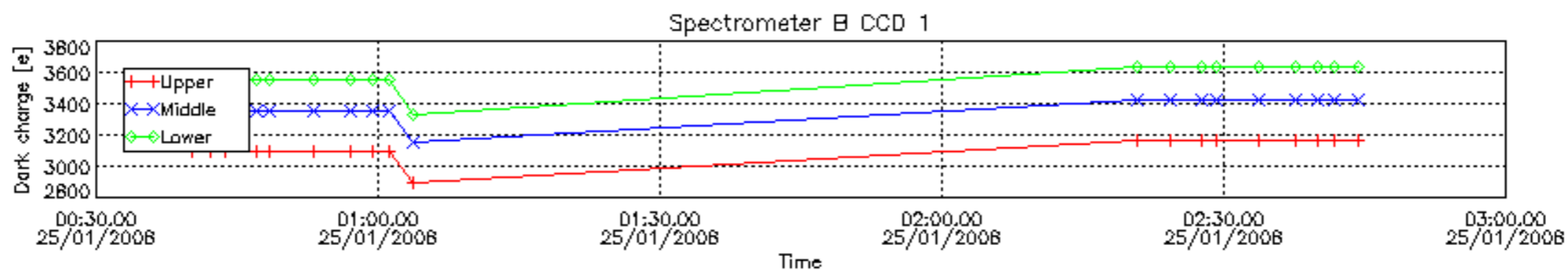
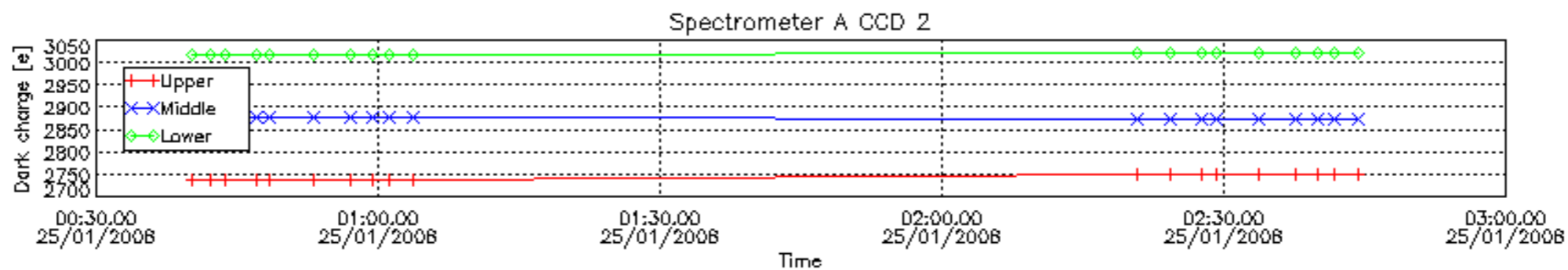
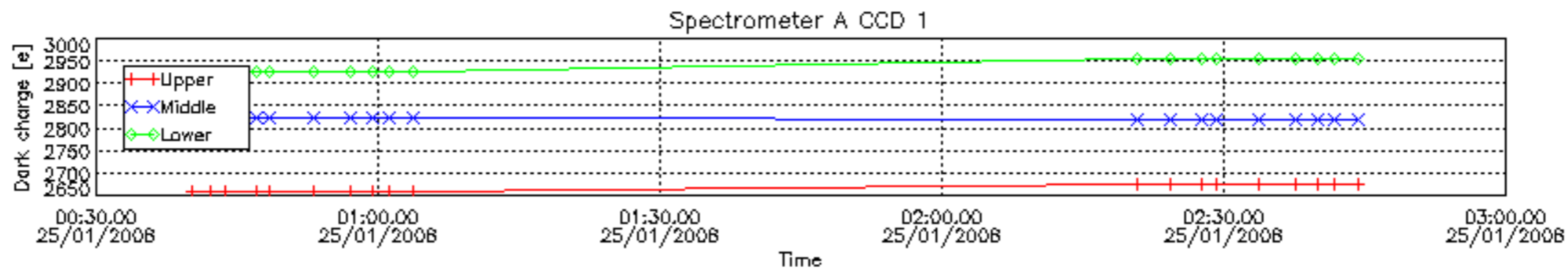
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

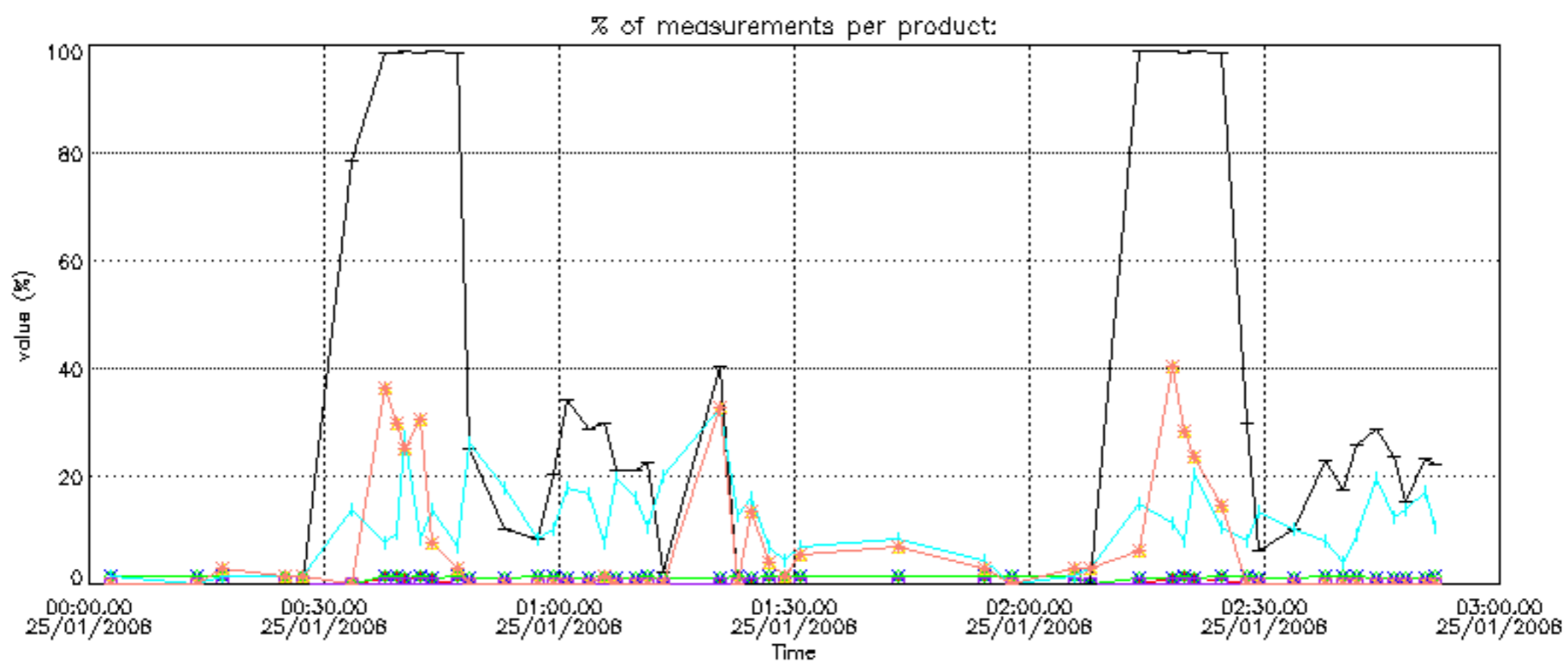
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	25-JAN-2008 00:02:43
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080118_162059_20080116_000000_20100101_000000	1	25-JAN-2008 00:02:43
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	25-JAN-2008 00:02:43
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-JAN-2008 00:02:43
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	25-JAN-2008 00:02:43
ECMWF_FILE	AUX_ECF_AXNECM20080125_104609_20080124_210000_20080125_090000	1	25-JAN-2008 00:02:43
OPTIONAL_ECMWF_FILE	MISSING	1	25-JAN-2008 00:02:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080124_210428_000060572065_00243_30858_5011.N1	1	25-JAN-2008 00:02:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080125_003141_000054192065_00245_30860_5013.N1	7	25-JAN-2008 00:37:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080125_020719_000041442065_00246_30861_5014.N1	35	25-JAN-2008 02:14:00





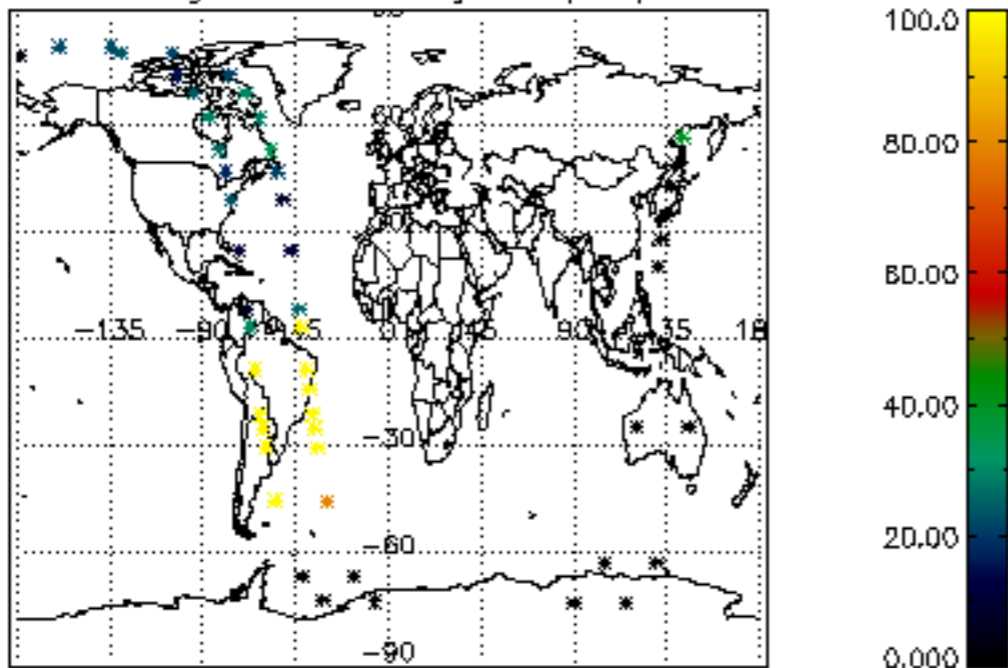




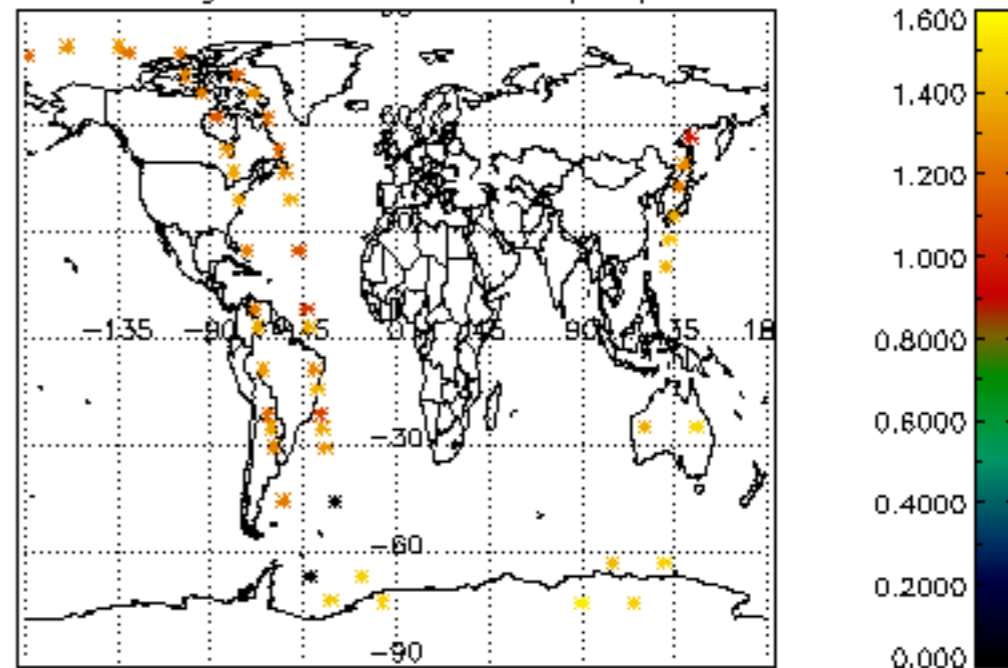




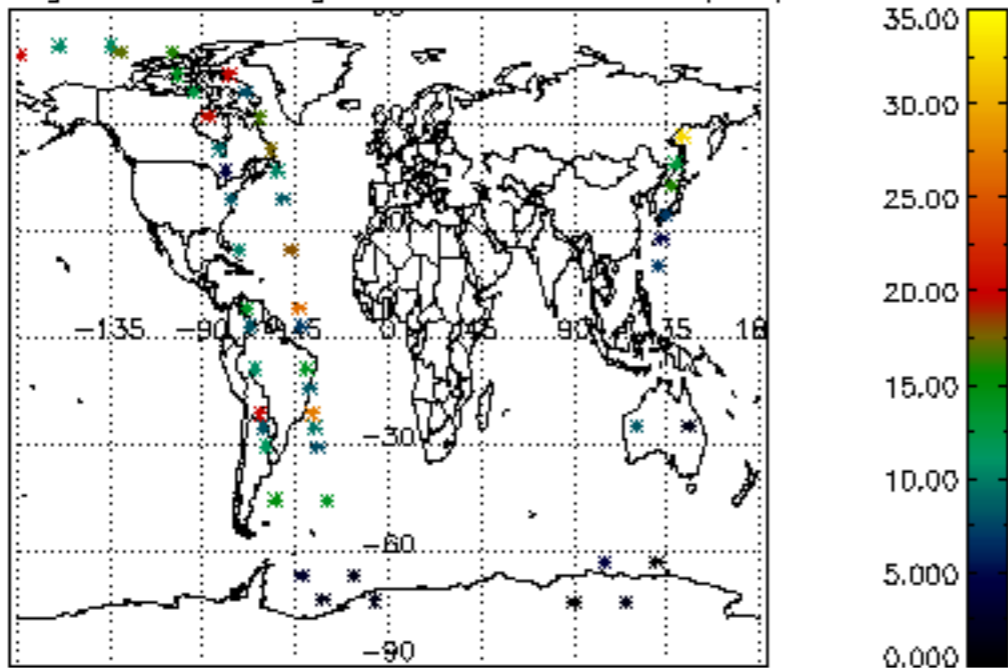
Percentage of cosmic ray hits per profile



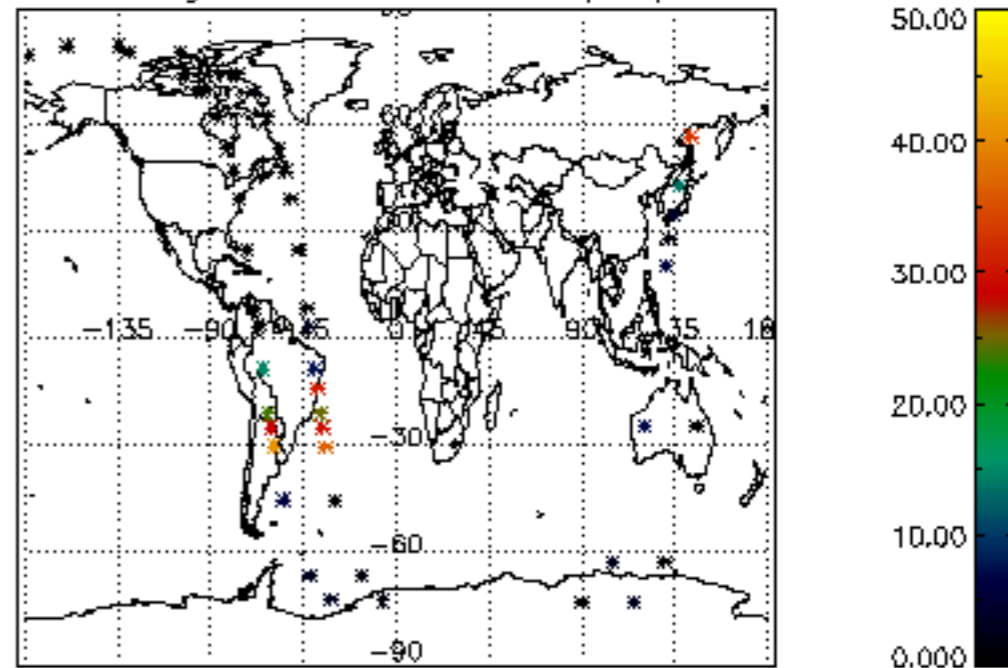
Percentage of datation errors per profile



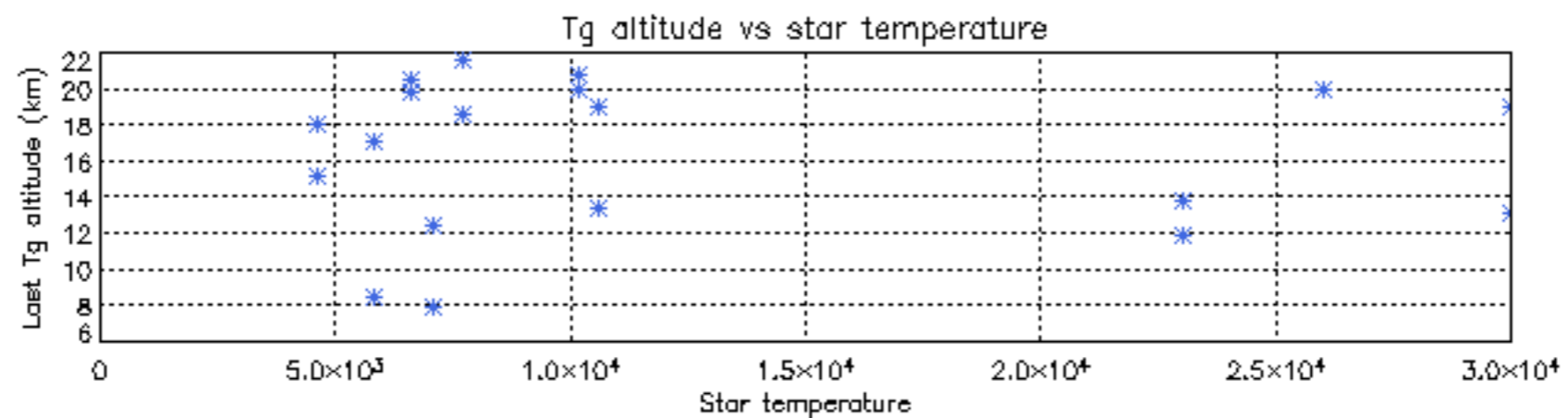
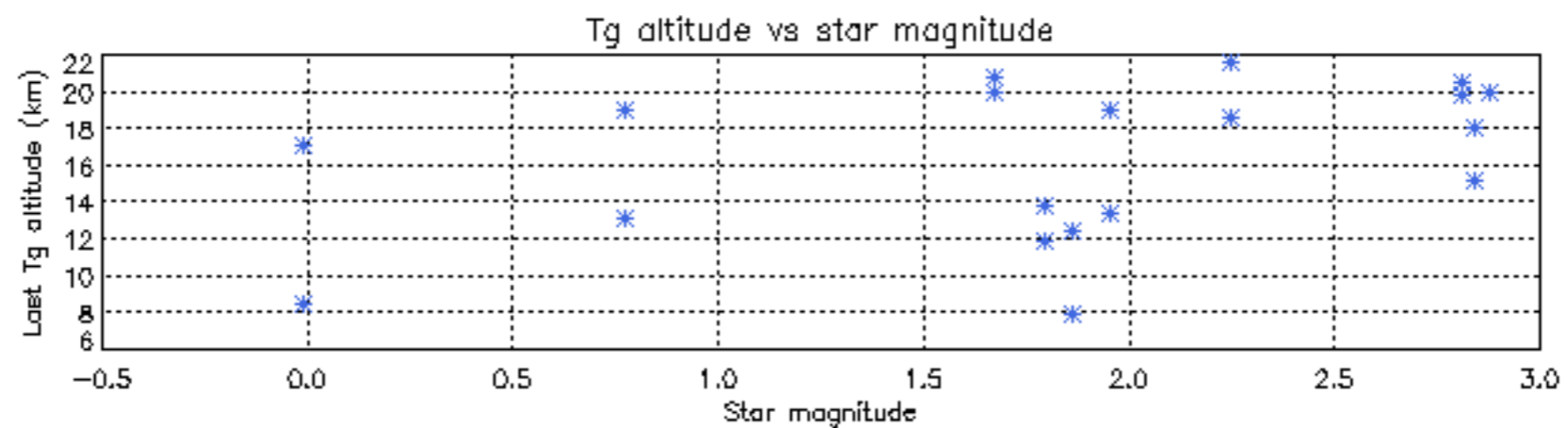
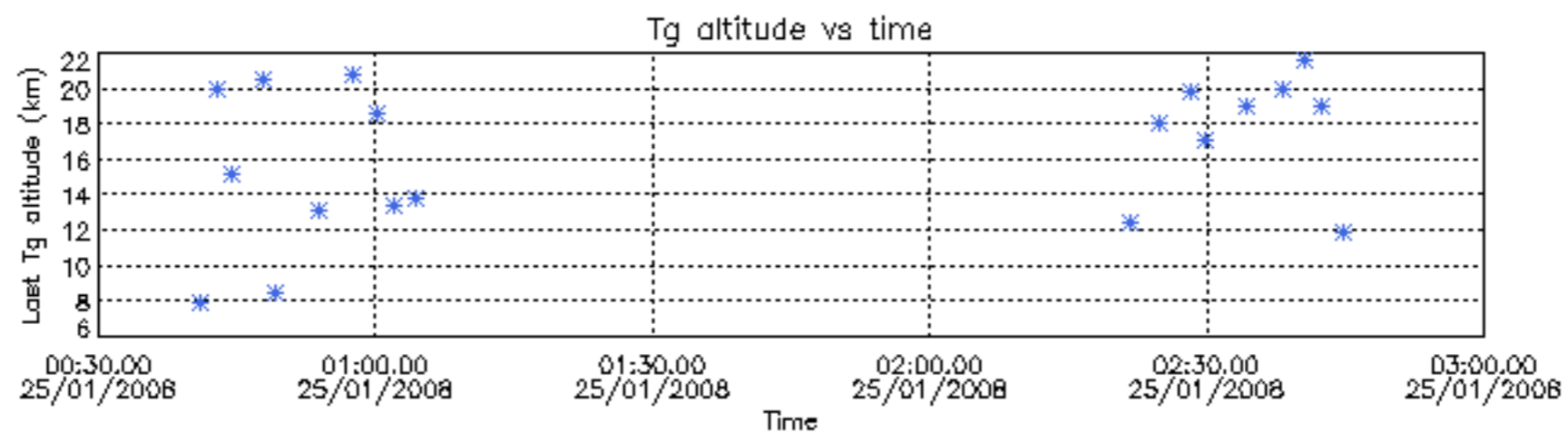
Percentage of star falling outside central band per profile



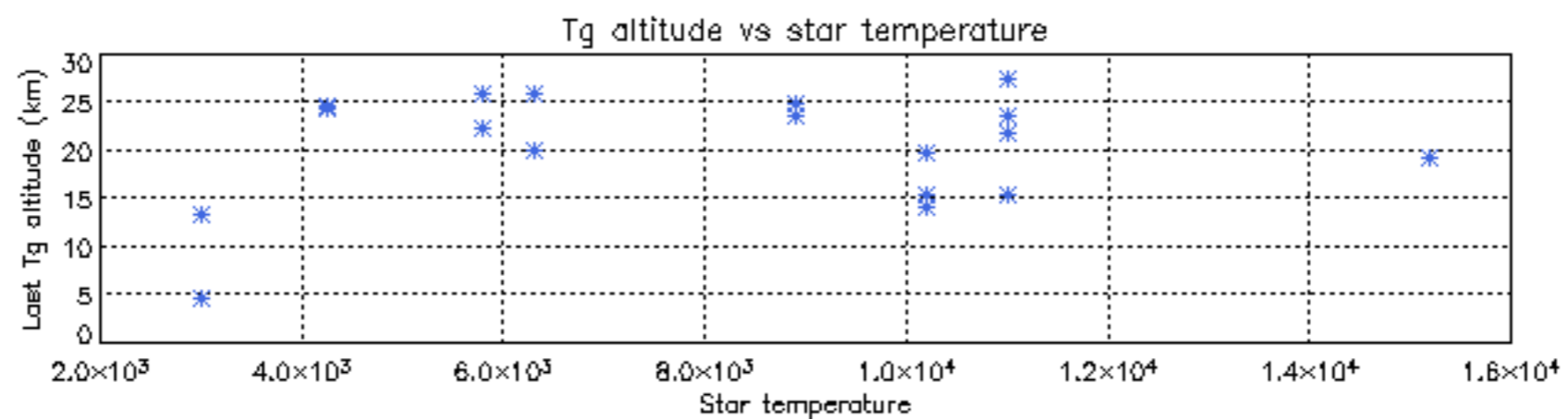
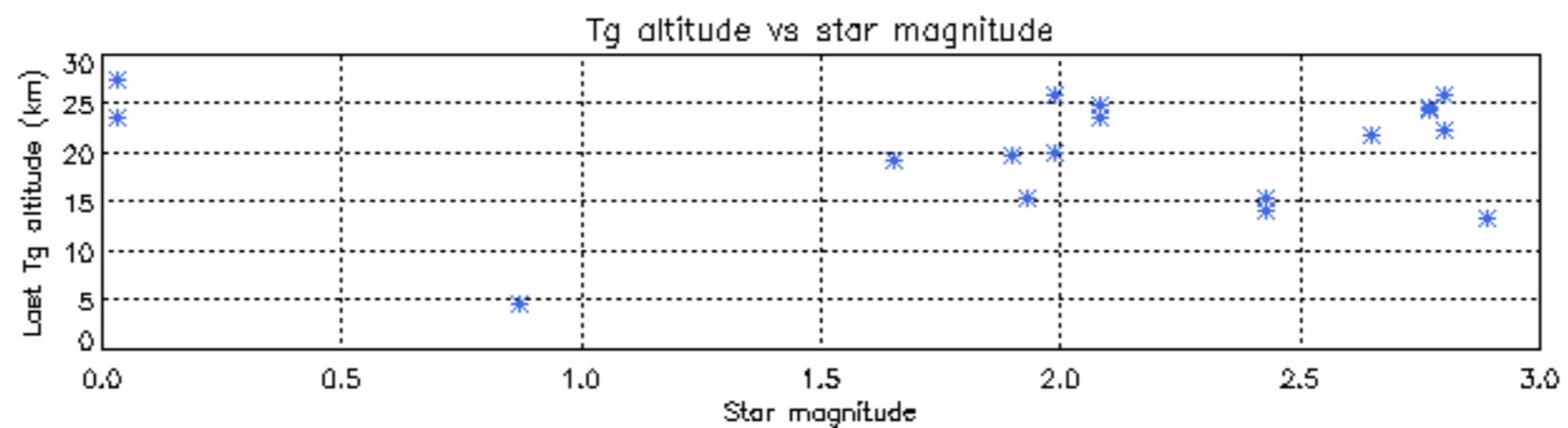
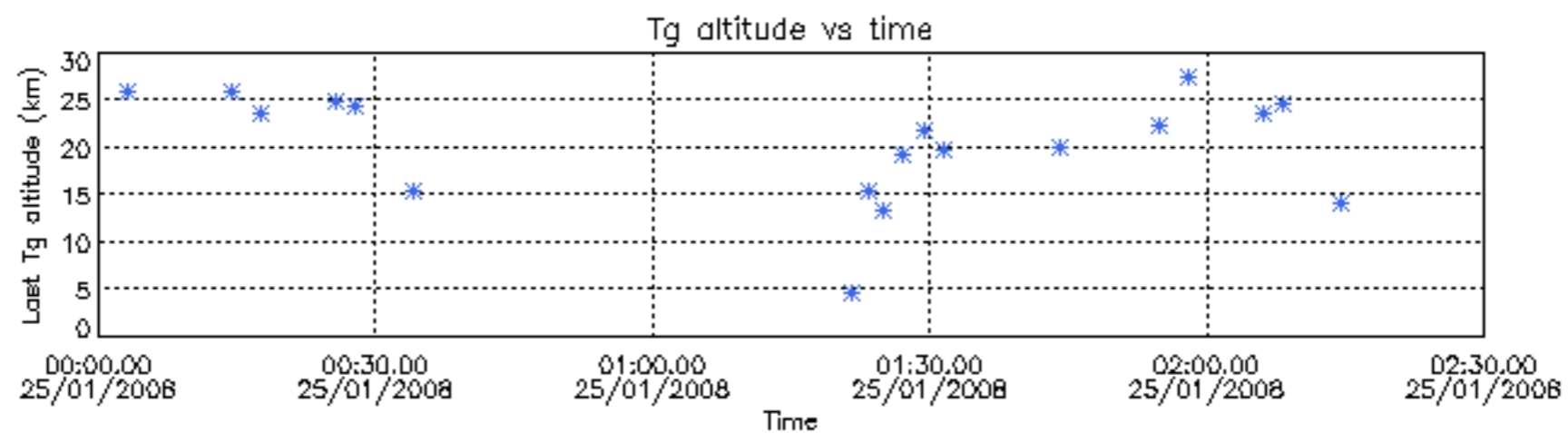
Percentage of saturation errors per profile



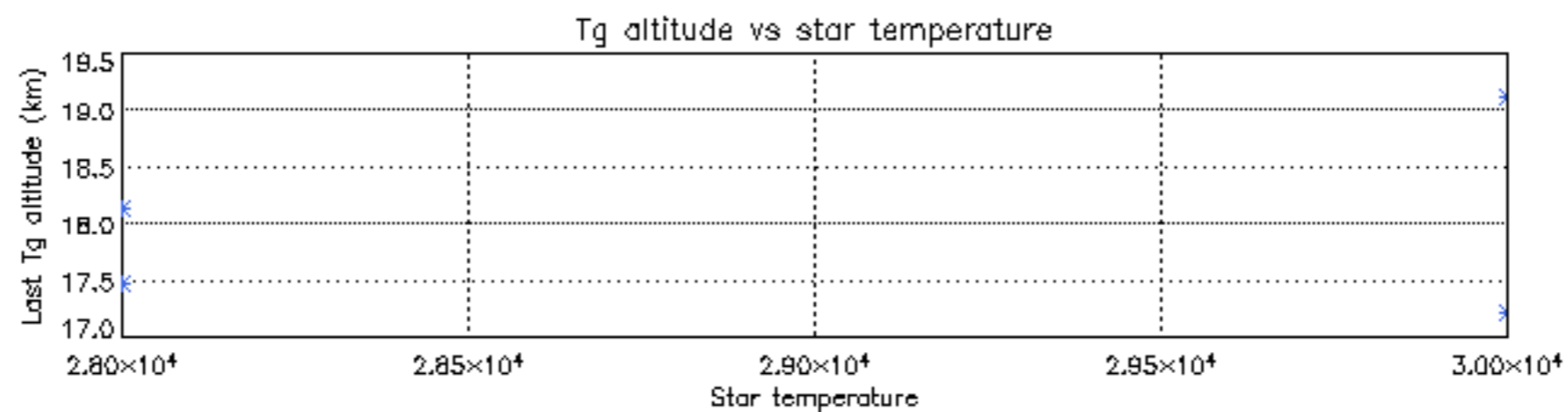
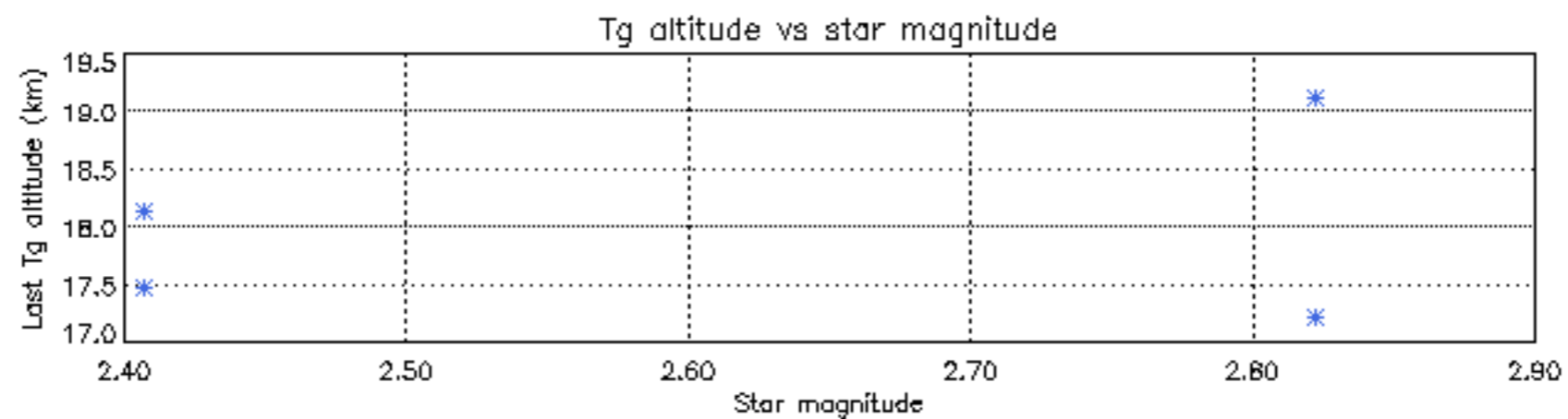
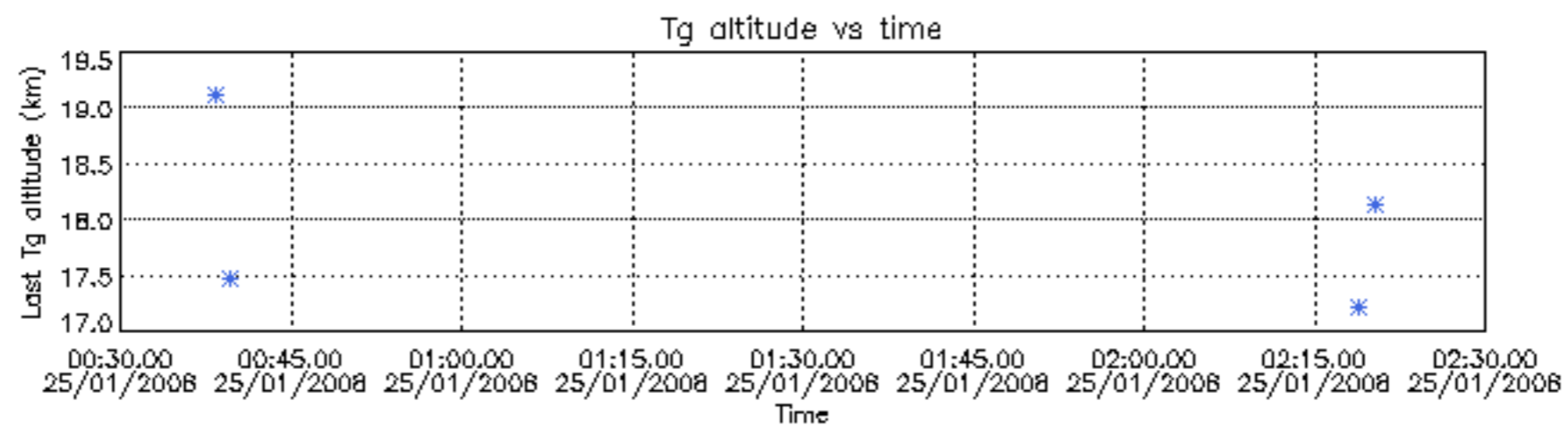
Tangent altitude at which the star is lost



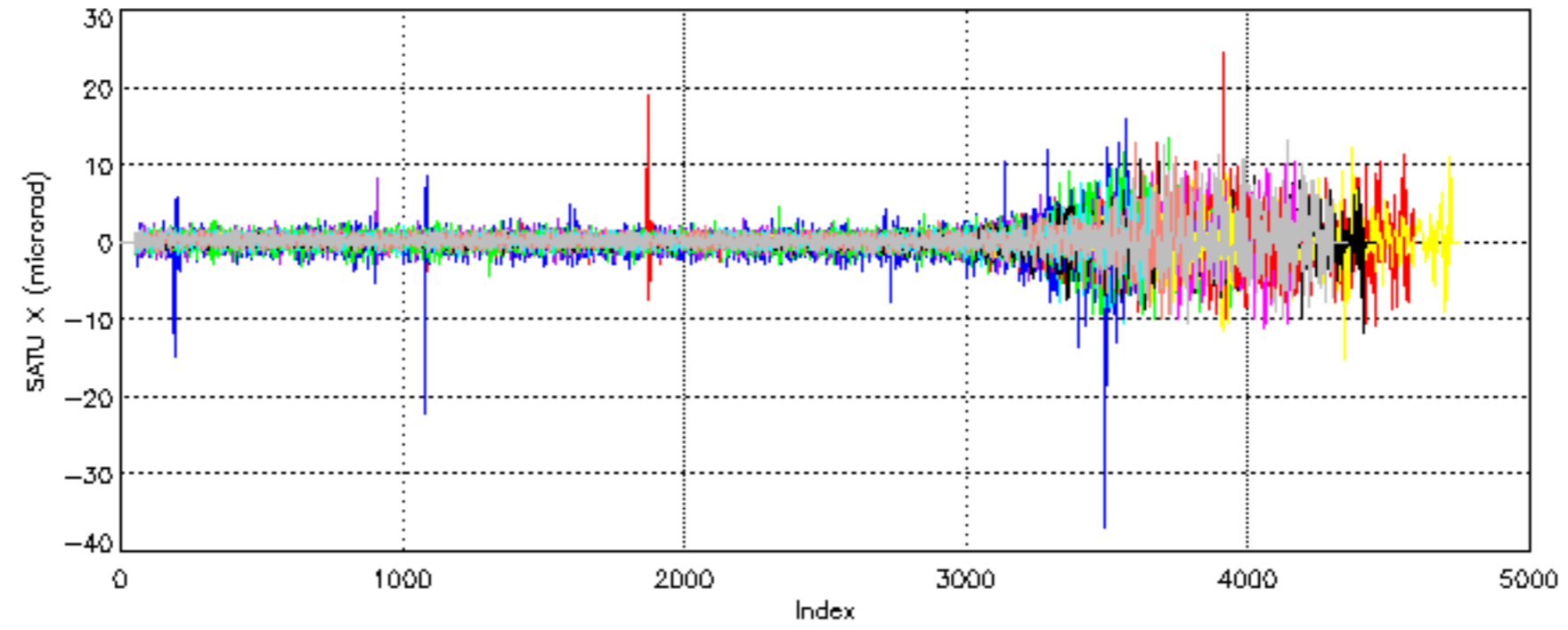
Tangent altitude at which the star is lost

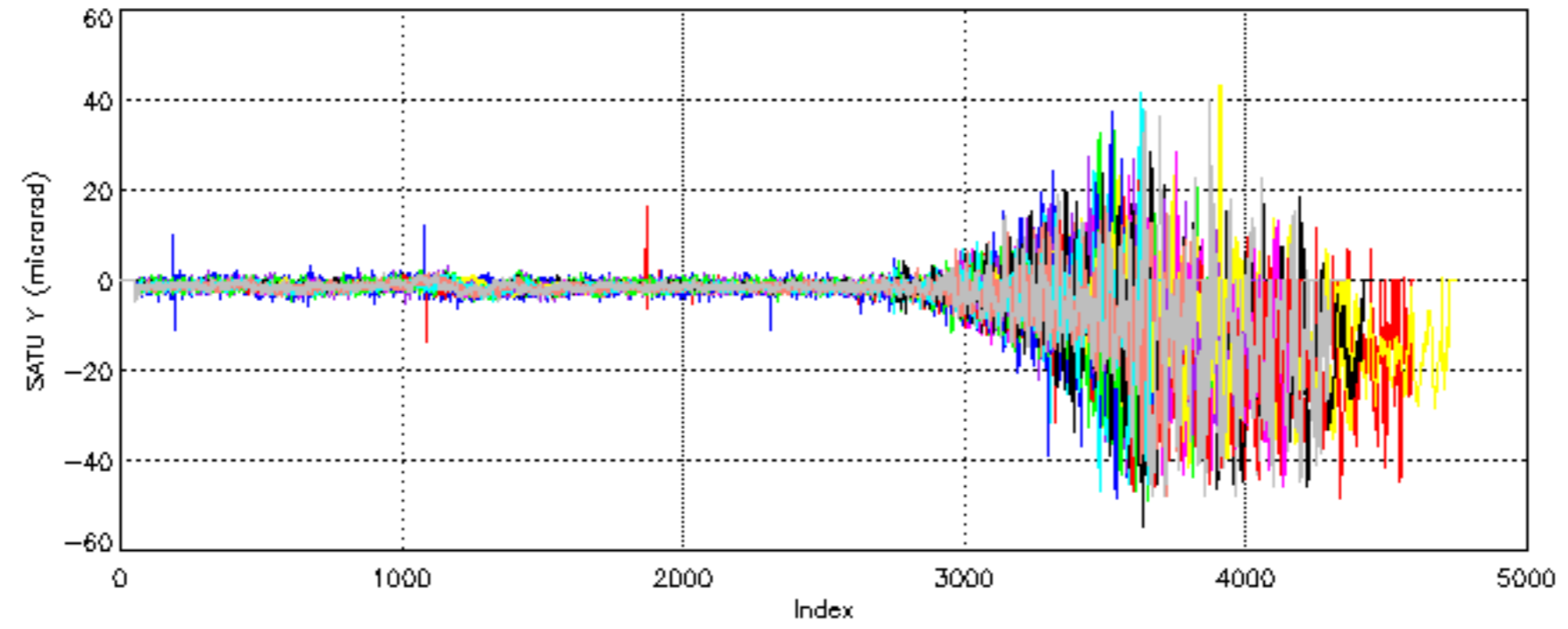


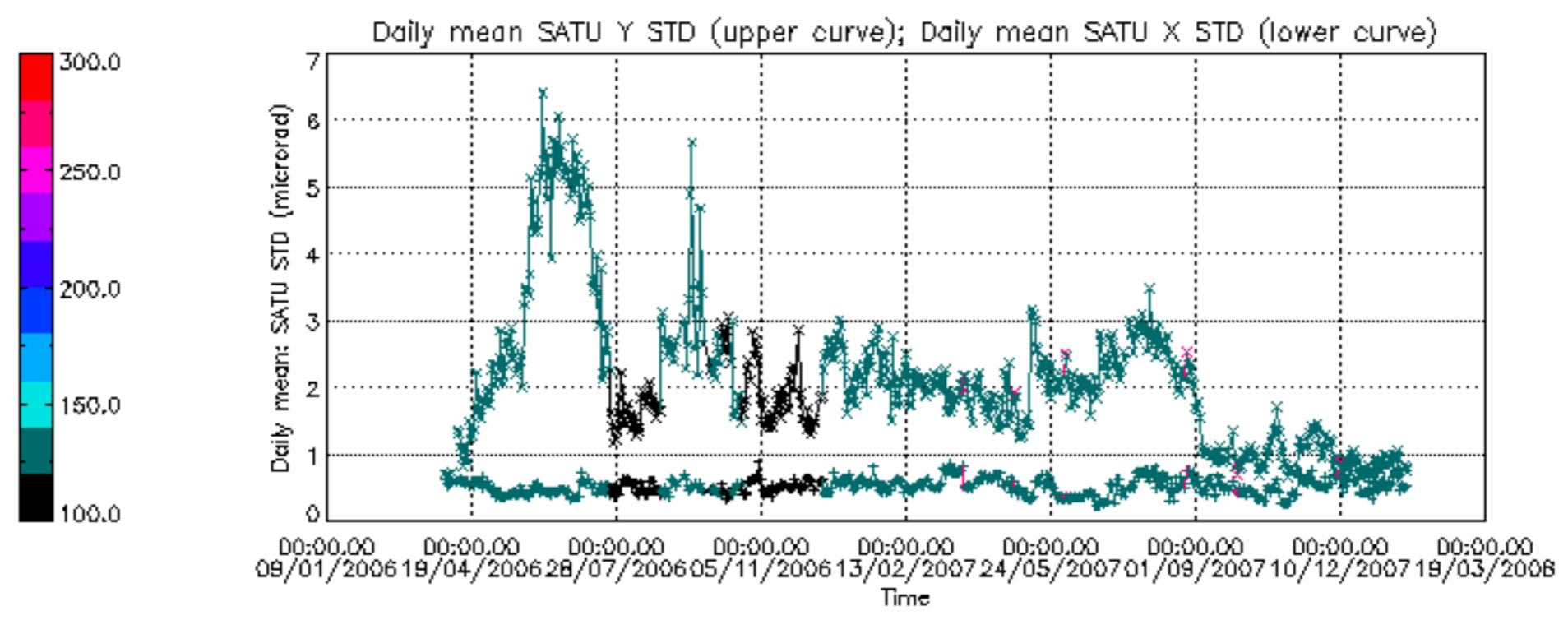
Tangent altitude at which the star is lost











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 2; -107.2; 01-JAN-2008 01:39:02; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;30517  
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 15; 2200.2; 01-JAN-2008 02:17:29; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;30518  
 16; 2398.1; 01-JAN-2008 02:20:47; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30518  
 17; 2472.5; 01-JAN-2008 02:22:02; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30518  
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 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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 7; -1007.4; 01-JAN-2008 03:04:38; Bright; 33.5; 120; 1Del Oph ; 2.73; 3200;occ; 67; 0;30518  
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 9; -685.7; 01-JAN-2008 03:09:59; Dark ; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;30518  
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 11; -194.3; 01-JAN-2008 03:18:11; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;30518  
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 13; -2.2; 01-JAN-2008 03:21:23; Dark ; 46.5; 4; Alp1Cen ;-0.01; 5800;occ; 93; 0;30518  
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 15; 398.2; 01-JAN-2008 03:28:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30519  
 16; 545.7; 01-JAN-2008 03:30:31; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30519  
 17; 627.8; 01-JAN-2008 03:31:53; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;30519  
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 27; 2472.6; 01-JAN-2008 04:02:38; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;30519  
 28; 2611.7; 01-JAN-2008 04:04:57; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30519  
 29; 2693.3; 01-JAN-2008 04:06:18; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30519  
 30; 3423.4; 01-JAN-2008 04:18:28; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30519

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 11; -282.1; 01-JAN-2008 04:57:19; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30519  
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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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24; 1881.5; 01-JAN-2008 05:33:23; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;30520
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 9; 2692.9; 01-JAN-2008 14:09:53; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;30525  
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 12; 3922.2; 01-JAN-2008 14:30:23; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30525  
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 17; 5030.3; 01-JAN-2008 14:48:51; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30525  
 18; 5194.9; 01-JAN-2008 14:51:35; Bright; 37.5; 104; 27Bet Lib ; 2.61; 13100;occ; 75; 0;30525  
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19; 5195.4; 01-JAN-2008 16:32:12; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;30526
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22; 5757.0; 01-JAN-2008 16:41:34; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30526
23; 5845.3; 01-JAN-2008 16:43:02; Dark ; 36.5; 78; Alp Lup ; 2.30; 28000;occ; 73; 0;30526
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27; 6584.6; 01-JAN-2008 16:55:21; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30526
28; 6668.2; 01-JAN-2008 16:56:45; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;30526
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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16; 4422.6; 01-JAN-2008 17:59:55; Bright; 42.0; 133; 40Zet Her ; 2.81; 6000;occ; 84; 0;30527
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18; 4891.7; 01-JAN-2008 18:07:44; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30527
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21; 5355.7; 01-JAN-2008 18:15:28; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;30527
22; 5678.1; 01-JAN-2008 18:20:51; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;30527
23; 5757.4; 01-JAN-2008 18:22:10; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30527
24; 5845.8; 01-JAN-2008 18:23:38; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30527
25; 5935.0; 01-JAN-2008 18:25:08; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;30527
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
28; 6585.0; 01-JAN-2008 18:35:57; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30527
29; 6668.7; 01-JAN-2008 18:37:21; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 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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 12; 3690.7; 01-JAN-2008 19:28:19; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;30528  
 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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 7; 2202.1; 01-JAN-2008 20:44:07; Dark ; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;30529  
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 21; 6279.5; 03-JAN-2008 09:04:38; Dark ; 49.5; 12; Alp1Cru ; 0.77; 30000;occ; 99; 0;30550  
 22; 6443.5; 03-JAN-2008 09:07:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30550  
 23; 6593.2; 03-JAN-2008 09:09:52; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;30550  
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29; 7362.4; 03-JAN-2008 11:03:17; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30551
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17; 5207.7; 03-JAN-2008 12:07:58; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;30552
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22; 1351.7; 04-JAN-2008 07:10:54; Dark ; 28.0; 23; 21Eps CMa ; 1.50; 26000;occ; 56; 0;30564
23; 1575.2; 04-JAN-2008 07:14:37; Dark ; 42.5; 47; 2Bet CMa ; 1.98; 28000;occ; 85; 0;30564
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 4; 2208.2; 04-JAN-2008 07:25:10; Bright; 35.5; 13; 87Alp Tau ; 0.87; 3800;occ; 71; 0;30564

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7; 2558.4; 04-JAN-2008 07:31:00; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;30564  
8; 2690.3; 04-JAN-2008 07:33:12; Bright; 52.0; 6; 13Alp Aur ; 0.08; 3400;occ; 104; 0;30564  
9; 3423.8; 04-JAN-2008 07:45:26; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30564  
10; 3686.9; 04-JAN-2008 07:49:49; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;30564  
11; 3923.5; 04-JAN-2008 07:53:46; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;30564  
12; 4055.4; 04-JAN-2008 07:55:57; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;30564  
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  
15; 4903.2; 04-JAN-2008 08:10:05; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;30564  
16; 5040.2; 04-JAN-2008 08:12:22; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30564  
17; 5213.6; 04-JAN-2008 08:15:16; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;30564  
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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  
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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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4; 2208.4; 04-JAN-2008 09:05:46; Bright; 42.5; 13; 87Alp Tau ; 0.87; 3800;occ; 85; 0;30565  
5; 2395.5; 04-JAN-2008 09:08:53; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30565  
6; 2474.6; 04-JAN-2008 09:10:13; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30565  
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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  
15; 4903.6; 04-JAN-2008 09:50:42; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;30565  
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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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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3; 1884.6; 04-JAN-2008 10:40:58; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;30566  
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
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12; 3923.6; 04-JAN-2008 11:14:57; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30566
13; 4055.8; 04-JAN-2008 11:17:10; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68; 0;30566
14; 4428.8; 04-JAN-2008 11:23:23; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;30566
15; 4553.9; 04-JAN-2008 11:25:28; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;30566
16; 4903.8; 04-JAN-2008 11:31:18; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 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
27; 6448.1; 04-JAN-2008 11:57:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30566
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
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
34; 7611.6; 04-JAN-2008 12:16:25; Dark ; 41.5; 47; 2Bet CMA ; 1.98; 28000;occ; 83; 0;30566
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3; 1884.7; 04-JAN-2008 12:21:34; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30567
4; 2031.5; 04-JAN-2008 12:24:01; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 0;30567
5; 2208.8; 04-JAN-2008 12:26:58; Bright; 44.0; 13; 87Alp Tau ; 0.87; 3800;occ; 88; 0;30567
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
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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
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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6; -75.4; 04-JAN-2008 13:29:30; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30567
7; 13.9; 04-JAN-2008 13:30:59; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;30568
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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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28; 2395.2; 05-JAN-2008 03:35:28; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;30576
29; 2475.3; 05-JAN-2008 03:36:48; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30576
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9; -718.4; 05-JAN-2008 04:24:11; Bright; 52.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 104; 0;30576
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13; -166.7; 05-JAN-2008 04:33:22; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30576

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12; 2689.5; 05-JAN-2008 20:26:22; Bright; 38.0; 6; 13Alp Aur ; 0.08; 3400;occ; 76; 0;30586

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 10; 3924.3; 06-JAN-2008 13:32:56; Bright; 53.0; 119; 14Eta Dra ; 2.73; 4700;occ; 106; 0;30596  
 11; 4060.6; 06-JAN-2008 13:35:12; Bright; 32.5; 130; 23Bet Dra ; 2.80; 5800;occ; 65; 0;30596  
 12; 4433.8; 06-JAN-2008 13:41:25; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;30596  
 13; 4612.1; 06-JAN-2008 13:44:24; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;30596  
 14; 4914.3; 06-JAN-2008 13:49:26; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30596  
 15; 5049.4; 06-JAN-2008 13:51:41; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;30596  
 16; 5375.9; 06-JAN-2008 13:57:08; Dark ; 39.0; 80; 7Del Sco ; 2.32; 30000;occ; 78; 0;30596  
 17; 5701.7; 06-JAN-2008 14:02:33; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30596  
 18; 5789.8; 06-JAN-2008 14:04:01; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30596  
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 21; 6303.6; 06-JAN-2008 14:12:35; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;30596  
 22; 6456.8; 06-JAN-2008 14:15:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30596  
 23; 6609.3; 06-JAN-2008 14:17:41; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30596  
 24; 6704.9; 06-JAN-2008 14:19:17; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30596  
 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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 4; 1887.5; 06-JAN-2008 14:39:35; Dark ; 39.5; 30; 46Eps Ori ; 1.69; 30000;occ; 79; 0;30597  
 5; 2031.3; 06-JAN-2008 14:41:59; Dark ; 49.0; 14; 58Alp Ori ; 0.87; 3000;occ; 98; 0;30597  
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 7; 2395.1; 06-JAN-2008 14:48:03; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30597  
 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  
 10; 3424.1; 06-JAN-2008 15:05:12; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 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  
 14; 4433.8; 06-JAN-2008 15:22:01; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30597  
 15; 4612.3; 06-JAN-2008 15:25:00; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;30597  
 16; 4914.6; 06-JAN-2008 15:30:02; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30597  
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 22; 6060.3; 06-JAN-2008 15:49:08; Dark ; 48.5; 4; Alp1Cen ; -0.01; 5800;occ; 97; 0;30597  
 23; 6304.2; 06-JAN-2008 15:53:12; Dark ; 45.5; 12; Alp1Cru ; 0.77; 30000;occ; 91; 0;30597  
 24; 6457.2; 06-JAN-2008 15:55:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30597

25; 6609.6; 06-JAN-2008 15:58:17; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30597  
 26; 6705.5; 06-JAN-2008 15:59:53; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30597  
 27; 6793.5; 06-JAN-2008 16:01:21; Dark ; 51.5; 41; Eps Car ; 1.86; 4100;occ; 103; 0;30597  
 28; 7033.3; 06-JAN-2008 16:05:21; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;30597  
 29; 7234.3; 06-JAN-2008 16:08:42; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30597  
 30; 7396.2; 06-JAN-2008 16:11:24; Dark ; 15.0; 23; 21Eps CMA ; 1.50; 26000;occ; 30; 0;30597

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 2; 1580.1; 06-JAN-2008 16:15:04; Dark ; 42.5; 47; 2Bet CMA ; 1.98; 28000;occ; 85; 0;30598  
 3; 1780.6; 06-JAN-2008 16:18:24; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;30598  
 4; 1887.5; 06-JAN-2008 16:20:11; Dark ; 38.5; 30; 46Eps Ori ; 1.69; 30000;occ; 77; 0;30598  
 5; 2031.3; 06-JAN-2008 16:22:35; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;30598  
 6; 2268.0; 06-JAN-2008 16:26:32; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30598  
 7; 2395.1; 06-JAN-2008 16:28:39; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;30598  
 8; 2477.3; 06-JAN-2008 16:30:01; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30598  
 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  
 12; 3924.5; 06-JAN-2008 16:54:08; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30598  
 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  
 15; 4612.5; 06-JAN-2008 17:05:36; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;30598  
 16; 4914.9; 06-JAN-2008 17:10:38; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;30598  
 17; 5050.0; 06-JAN-2008 17:12:54; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;30598  
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 21; 5880.5; 06-JAN-2008 17:26:44; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30598  
 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  
 24; 6457.5; 06-JAN-2008 17:36:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30598  
 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  
 28; 7033.7; 06-JAN-2008 17:45:57; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 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  
 5; 1780.7; 06-JAN-2008 17:59:00; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;30599  
 6; 1887.6; 06-JAN-2008 18:00:47; Dark ; 39.5; 30; 46Eps Ori ; 1.69; 30000;occ; 79; 0;30599  
 7; 2031.3; 06-JAN-2008 18:03:11; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;30599  
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 9; 2395.1; 06-JAN-2008 18:09:15; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 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  
 14; 3924.5; 06-JAN-2008 18:34:44; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;30599  
 15; 4060.9; 06-JAN-2008 18:37:00; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30599  
 16; 4434.0; 06-JAN-2008 18:43:14; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30599  
 17; 4612.4; 06-JAN-2008 18:46:12; Bright; 52.0; 127; 27Bet Her ; 2.78; 4700;occ; 104; 0;30599  
 18; 4915.2; 06-JAN-2008 18:51:15; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;30599  
 19; 5050.2; 06-JAN-2008 18:53:30; Bright; 53.0; 120; 1Del Oph ; 2.73; 3200;occ; 106; 0;30599  
 20; 5377.0; 06-JAN-2008 18:58:57; Dark ; 40.5; 80; 7Del Sco ; 2.32; 30000;occ; 81; 0;30599  
 21; 5702.9; 06-JAN-2008 19:04:22; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;30599  
 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  
 25; 6305.1; 06-JAN-2008 19:14:25; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30599  
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 27; 6610.3; 06-JAN-2008 19:19:30; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30599  
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 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
5; 1780.9; 06-JAN-2008 19:39:36; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;30600
6; 1887.7; 06-JAN-2008 19:41:23; Dark ; 38.0; 30; 46Eps Ori ; 1.69; 30000;occ; 76; 0;30600
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9; 2395.0; 06-JAN-2008 19:49:51; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30600
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11; 2689.4; 06-JAN-2008 19:54:45; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30600
12; 3424.0; 06-JAN-2008 20:07:00; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;30600
13; 3682.6; 06-JAN-2008 20:11:18; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;30600
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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
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19; 5050.4; 06-JAN-2008 20:34:06; Bright; 42.5; 120; 1Del Oph ; 2.73; 3200;occ; 85; 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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7; 574.9; 06-JAN-2008 22:40:42; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30602
8; 671.4; 06-JAN-2008 22:42:19; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30602
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13; 1580.6; 06-JAN-2008 22:57:28; Dark ; 44.0; 47; 2Bet CMa ; 1.98; 28000;occ; 88; 0;30602
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27; 7237.5; 07-JAN-2008 08:54:45; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;30607
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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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 9; 3424.4; 09-JAN-2008 13:30:21; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;30639  
 10; 3677.4; 09-JAN-2008 13:34:34; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;30639  
 11; 3924.7; 09-JAN-2008 13:38:41; Bright; 53.0; 119; 14Eta Dra ; 2.73; 4700;occ; 106; 0;30639  
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 13; 4440.2; 09-JAN-2008 13:47:17; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30639  
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 22; 6326.5; 09-JAN-2008 14:18:43; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;30639  
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28; 7247.3; 09-JAN-2008 14:34:04; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;30639
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31; 7043.2; 09-JAN-2008 17:51:52; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;30641

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 13; 3424.4; 09-JAN-2008 18:32:09; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30642  
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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
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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
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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
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15;	5158.6;	11-JAN-2008	07:54:14;	Bright;		34.5;	98;	13Zet Oph	;	2.57;	30000;occ;	69;	0;	30664
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22;	6085.9;	11-JAN-2008	08:09:41;	Dark	;	43.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	86;	0;	30664
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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
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29;	7254.8;	11-JAN-2008	08:29:10;	Dark	;	42.5;	117;	Pi Pup	;	2.71;	3800;occ;	85;	0;	30664
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5;	2397.8;	11-JAN-2008	08:48:49;	Bright;		37.0;	28;	12Bet Tau	;	1.65;	15200;occ;	74;	0;	30665
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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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21;	6029.6;	11-JAN-2008	09:49:21;	Dark	;	31.0;	95;	Zet Cen	;	2.55;	26000;occ;	62;	0;	30665
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29; 6820.9; 11-JAN-2008 13:23:44; Dark ; 39.5; 41; Eps Car ; 1.86; 4100;occ; 79; 0;30667
30; 7048.4; 11-JAN-2008 13:27:31; Dark ; 43.5; 2; Alp Car ; -0.74; 7000;occ; 87; 0;30667
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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5; 2270.0; 11-JAN-2008 13:48:29; Bright; 35.0; 176; 23Zet Tau ; 3.02; 22000;occ; 70; 0;30668
6; 2398.1; 11-JAN-2008 13:50:37; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30668
7; 2487.2; 11-JAN-2008 13:52:06; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;30668
8; 2676.2; 11-JAN-2008 13:55:15; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30668
9; 3424.8; 11-JAN-2008 14:07:43; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30668
10; 3673.4; 11-JAN-2008 14:11:52; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30668
11; 3924.3; 11-JAN-2008 14:16:03; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30668
12; 4070.2; 11-JAN-2008 14:18:29; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30668
13; 4444.6; 11-JAN-2008 14:24:43; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;30668
14; 4626.6; 11-JAN-2008 14:27:45; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;30668
15; 5073.3; 11-JAN-2008 14:35:12; Bright; 38.0; 120; 1Del Oph ; 2.73; 3200;occ; 76; 0;30668
16; 5159.8; 11-JAN-2008 14:36:38; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;30668
17; 5426.4; 11-JAN-2008 14:41:05; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;30668
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19; 5829.0; 11-JAN-2008 14:47:48; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;30668
20; 5919.5; 11-JAN-2008 14:49:18; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30668
21; 6087.4; 11-JAN-2008 14:52:06; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;30668
22; 6298.6; 11-JAN-2008 14:55:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30668
23; 6540.7; 11-JAN-2008 14:59:39; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30668
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3; 1600.4; 11-JAN-2008 15:17:55; Dark ; 48.5; 1; 9Alp Cma ; -1.44; 11000;occ; 97; 0;30669
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5; 1896.0; 11-JAN-2008 15:22:50; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;30669
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19; 5426.7; 11-JAN-2008 16:21:41; Dark ; 45.5; 16; 21Alp Sco ; 1.02; 3000;occ; 91; 0;30669
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21; 5829.7; 11-JAN-2008 16:28:24; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;30669
22; 5920.2; 11-JAN-2008 16:29:55; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30669
23; 6087.9; 11-JAN-2008 16:32:42; Dark ; 50.5; 4; Alp1Cen ; -0.01; 5800;occ; 101; 0;30669
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25; 6541.3; 11-JAN-2008 16:40:16; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30669
26; 6634.0; 11-JAN-2008 16:41:48; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30669
27; 6740.7; 11-JAN-2008 16:43:35; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30669
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3; 1463.9; 11-JAN-2008 16:56:14; Dark ; 41.0; 179; 240mi2Cma ; 3.03; 24000;occ; 82; 0;30670
4; 1600.5; 11-JAN-2008 16:58:31; Dark ; 45.5; 1; 9Alp Cma ; -1.44; 11000;occ; 91; 0;30670
5; 1748.8; 11-JAN-2008 17:00:59; Dark ; 41.0; 56; 53Kap Ori ; 2.07; 30000;occ; 82; 0;30670
6; 1896.2; 11-JAN-2008 17:03:27; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30670
7; 2033.9; 11-JAN-2008 17:05:44; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;30670
8; 2270.1; 11-JAN-2008 17:09:41; Bright; 35.0; 176; 23Zet Tau ; 3.02; 22000;occ; 70; 0;30670

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 15; 4070.4; 11-JAN-2008 17:39:41; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;30670  
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 18; 5074.1; 11-JAN-2008 17:56:25; Bright; 51.5; 120; 1Del Oph ; 2.73; 3200;occ; 103; 0;30670  
 19; 5160.3; 11-JAN-2008 17:57:51; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;30670  
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 21; 5732.9; 11-JAN-2008 18:07:23; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30670  
 22; 5830.3; 11-JAN-2008 18:09:01; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30670  
 23; 5920.9; 11-JAN-2008 18:10:31; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30670  
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 26; 6541.8; 11-JAN-2008 18:20:52; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;30670  
 27; 6634.3; 11-JAN-2008 18:22:25; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30670  
 28; 6741.3; 11-JAN-2008 18:24:12; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;30670  
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 13; 1377.9; 11-JAN-2008 23:37:12; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;30674  
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 19; 2270.3; 11-JAN-2008 23:52:04; Bright; 35.5; 176; 23Zet Tau ; 3.02; 22000;occ; 71; 0;30674  
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 22; 2675.5; 11-JAN-2008 23:58:50; Bright; 34.0; 42; 34Bet Aur ; 1.90; 10200;occ; 68; 0;30674  
 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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 27; 4445.4; 12-JAN-2008 00:28:20; Bright; 53.0; 133; 40Zet Her ; 2.81; 6000;occ; 106; 0;30674  
 28; 4627.7; 12-JAN-2008 00:31:22; Bright; 54.0; 127; 27Bet Her ; 2.78; 4700;occ; 108; 0;30674  
 29; 5075.4; 12-JAN-2008 00:38:50; Bright; 54.0; 120; 1Del Oph ; 2.73; 3200;occ; 108; 0;30674  
 30; 5161.4; 12-JAN-2008 00:40:16; Bright; 52.0; 98; 13Zet Oph ; 2.57; 30000;occ; 104; 0;30674  
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 9; 2270.2; 11-JAN-2008 18:50:17; Bright; 36.0; 176; 23Zet Tau ; 3.02; 22000;occ; 72; 0;30671  
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23; 5830.8; 11-JAN-2008 19:49:37; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;30671
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28; 6634.6; 11-JAN-2008 20:03:01; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30671
29; 6741.5; 11-JAN-2008 20:04:48; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30671
30; 6822.4; 11-JAN-2008 20:06:09; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;30671

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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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22;	2554.6;	27-JAN-2008	22:13:20;	Bright;		34.5;	107;	37The Aur	;	2.65;	11000;occ;	69;	0;	30902
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27;	4779.7;	27-JAN-2008	22:50:25;	Bright;		53.0;	59;	55Alp Oph	;	2.08;	8900;occ;	106;	0;	30902
28;	4906.6;	27-JAN-2008	22:52:32;	Bright;		34.5;	126;	60Bet Oph	;	2.77;	4250;occ;	69;	0;	30902
29;	5284.1;	27-JAN-2008	22:58:50;	Dark	;	42.0;	86;	35Eta Oph	;	2.43;	10200;occ;	84;	0;	30902
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26; 7540.4; 27-JAN-2008 11:52:14; Dark ; 38.0; 179; 240mi2Cma ; 3.03; 24000;occ; 76; 0;30895
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8; 4086.6; 27-JAN-2008 12:35:16; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;30896  
9; 4294.4; 27-JAN-2008 12:38:44; Bright; 32.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 65; 0;30896  
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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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16; 6102.3; 27-JAN-2008 13:08:52; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;30896  
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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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8; 3427.2; 27-JAN-2008 14:04:53; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 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  
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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  
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25; 7223.8; 27-JAN-2008 15:08:09; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;30897  
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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  
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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  
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17; 5609.1; 27-JAN-2008 16:21:51; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;30898  
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 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  
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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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 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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 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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16; 3426.3; 22-JAN-2008 21:44:45; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30830
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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