

# GOMOS Daily Report 25-NOV-2008

## Level 0 and Level 1 products

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## [Level 2 products](#)

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	26NOV2008 05:40:36
Data source version	GOMOS/5.00
Start time of products	25NOV2008 00:03:58
Stop time of products	25NOV2008 05:41:52
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

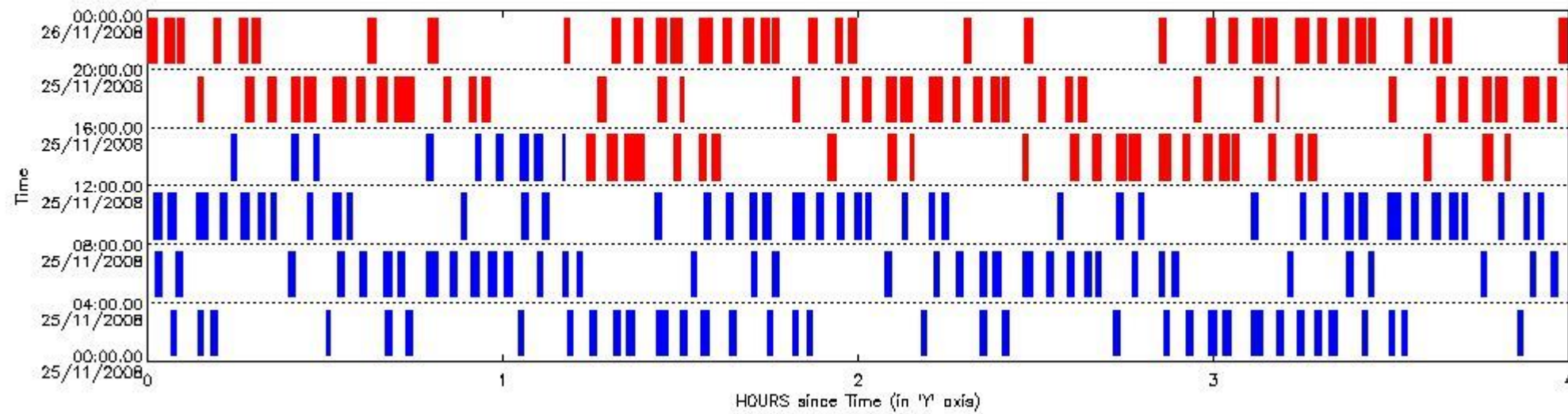
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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-NOV-2008 13:14:06	19BetOri	7	35234
25-NOV-2008 13:17:35	46EpsOri	30	35234
25-NOV-2008 13:20:31	24GamOri	27	35234
25-NOV-2008 13:22:29	87AlpTau	13	35234
25-NOV-2008 13:28:41	3IotAur	114	35234
25-NOV-2008 13:33:08	13AlpAur	6	35234
25-NOV-2008 13:35:21	34BetAur	42	35234
25-NOV-2008 13:54:49	52PsiUMa	174	35234
25-NOV-2008 14:04:56	68DelLeo	96	35234
25-NOV-2008 14:08:37	41Gam1Leo	51	35234
25-NOV-2008 14:27:41	DSA1054	0	35235
25-NOV-2008 14:35:52	ZetPup	70	35235
25-NOV-2008 14:39:34	PiPup	117	35235
25-NOV-2008 14:43:32	21EpsCMa	23	35235
25-NOV-2008 14:45:47	24Omi2CMa	179	35235

25-NOV-2008 14:50:42	9AlpCMa	1	35235
25-NOV-2008 14:54:42	19BetOri	7	35235
25-NOV-2008 14:58:11	46EpsOri	30	35235
25-NOV-2008 15:01:06	24GamOri	27	35235
25-NOV-2008 15:03:04	87AlpTau	13	35235
25-NOV-2008 15:09:17	3IotAur	114	35235
25-NOV-2008 15:13:43	13AlpAur	6	35235
25-NOV-2008 15:15:55	34BetAur	42	35235
25-NOV-2008 15:35:25	52PsiUMa	174	35235
25-NOV-2008 15:45:33	68DelLeo	96	35235
25-NOV-2008 15:49:14	41Gam1Leo	51	35235
25-NOV-2008 16:08:19	DSA1054	0	35236
25-NOV-2008 16:16:29	ZetPup	70	35236
25-NOV-2008 16:20:11	PiPup	117	35236
25-NOV-2008 16:24:09	21EpsCMa	23	35236
25-NOV-2008 16:26:24	24Omi2CMa	179	35236
25-NOV-2008 16:31:19	9AlpCMa	1	35236
25-NOV-2008 16:35:18	19BetOri	7	35236
25-NOV-2008 16:38:46	46EpsOri	30	35236
25-NOV-2008 16:41:41	24GamOri	27	35236
25-NOV-2008 16:43:40	87AlpTau	13	35236
25-NOV-2008 16:49:52	3IotAur	114	35236
25-NOV-2008 16:54:18	13AlpAur	6	35236
25-NOV-2008 16:56:30	34BetAur	42	35236
25-NOV-2008 17:16:01	52PsiUMa	174	35236
25-NOV-2008 17:26:09	68DelLeo	96	35236
25-NOV-2008 17:29:52	41Gam1Leo	51	35236
25-NOV-2008 17:48:58	DSA1054	0	35237
25-NOV-2008 17:57:06	ZetPup	70	35237
25-NOV-2008 18:00:48	PiPup	117	35237
25-NOV-2008 18:04:45	21EpsCMa	23	35237
25-NOV-2008 18:07:01	24Omi2CMa	179	35237
25-NOV-2008 18:11:55	9AlpCMa	1	35237
25-NOV-2008 18:15:53	19BetOri	7	35237
25-NOV-2008 18:19:21	46EpsOri	30	35237
25-NOV-2008 18:22:16	24GamOri	27	35237
25-NOV-2008 18:24:15	87AlpTau	13	35237
25-NOV-2008 18:30:27	3IotAur	114	35237
25-NOV-2008 18:34:53	13AlpAur	6	35237
25-NOV-2008 18:37:05	34BetAur	42	35237
25-NOV-2008 18:56:37	52PsiUMa	174	35237
25-NOV-2008 19:06:46	68DelLeo	96	35237
25-NOV-2008 19:10:30	41Gam1Leo	51	35237
25-NOV-2008 19:29:37	DSA1054	0	35238
25-NOV-2008 19:37:43	ZetPup	70	35238
25-NOV-2008 19:41:25	PiPup	117	35238
25-NOV-2008 19:45:22	21EpsCMa	23	35238
25-NOV-2008 19:47:37	24Omi2CMa	179	35238
25-NOV-2008 19:52:31	9AlpCMa	1	35238
25-NOV-2008 19:56:29	19BetOri	7	35238
25-NOV-2008 19:59:57	46EpsOri	30	35238
25-NOV-2008 20:02:51	24GamOri	27	35238
25-NOV-2008 20:04:51	87AlpTau	13	35238
25-NOV-2008 20:11:02	3IotAur	114	35238
25-NOV-2008 20:15:28	13AlpAur	6	35238
25-NOV-2008 20:17:40	34BetAur	42	35238
25-NOV-2008 20:37:12	52PsiUMa	174	35238
25-NOV-2008 20:47:22	68DelLeo	96	35238
25-NOV-2008 21:10:15	DSA1054	0	35239

25-NOV-2008 21:18:20	ZetPup	70	35239
25-NOV-2008 21:22:02	PiPup	117	35239
25-NOV-2008 21:25:59	21EpsCMa	23	35239
25-NOV-2008 21:28:14	24Omi2CMa	179	35239
25-NOV-2008 21:33:07	9AlpCMa	1	35239
25-NOV-2008 21:37:05	19BetOri	7	35239
25-NOV-2008 21:40:32	46EpsOri	30	35239
25-NOV-2008 21:43:26	24GamOri	27	35239
25-NOV-2008 21:45:26	87AlpTau	13	35239
25-NOV-2008 21:51:37	3lotAur	114	35239
25-NOV-2008 21:56:03	13AlpAur	6	35239
25-NOV-2008 21:58:15	34BetAur	42	35239
25-NOV-2008 22:17:48	52PsiUMa	174	35239
25-NOV-2008 22:27:59	68DelLeo	96	35239
25-NOV-2008 22:50:54	DSA1054	0	35240
25-NOV-2008 22:58:57	ZetPup	70	35240
25-NOV-2008 23:02:39	PiPup	117	35240
25-NOV-2008 23:06:36	21EpsCMa	23	35240
25-NOV-2008 23:08:51	24Omi2CMa	179	35240
25-NOV-2008 23:13:43	9AlpCMa	1	35240
25-NOV-2008 23:17:41	19BetOri	7	35240
25-NOV-2008 23:21:07	46EpsOri	30	35240
25-NOV-2008 23:24:02	24GamOri	27	35240
25-NOV-2008 23:26:01	87AlpTau	13	35240
25-NOV-2008 23:32:12	3lotAur	114	35240
25-NOV-2008 23:36:38	13AlpAur	6	35240
25-NOV-2008 23:38:50	34BetAur	42	35240
25-NOV-2008 23:58:24	52PsiUMa	174	35240

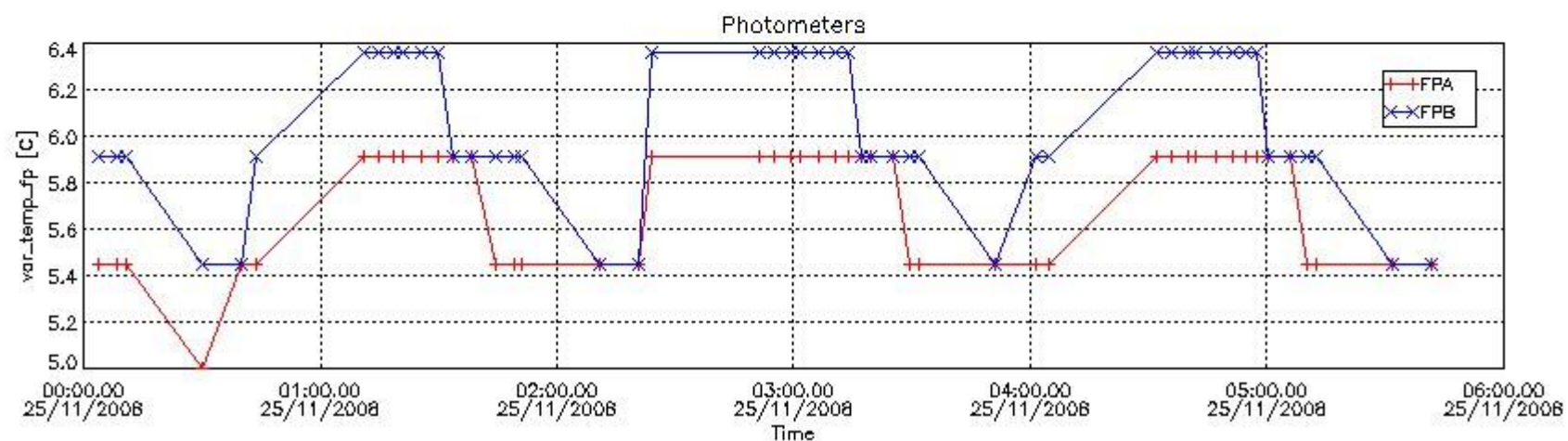
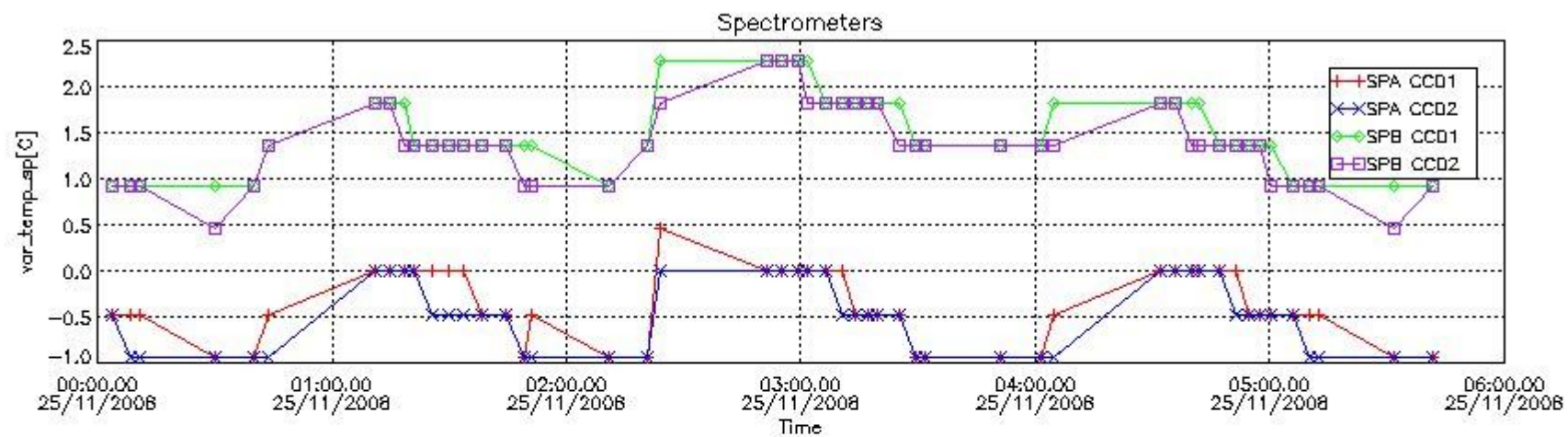
#### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20081125_000358_000000502074_00102_35226_9820.N1	25-NOV-2008 00:03:58	Bright	49.500	114	3lot Aur	2.6930	4600.0	99	35226	No
2	GOM_TRA_1PNPDE20081125_000825_000000502074_00102_35226_9821.N1	25-NOV-2008 00:08:25	Bright	49.500	6	13Alp Aur	0.080000	3400.0	99	35226	No
3	GOM_TRA_1PNPDE20081125_001040_000000562074_00102_35226_9822.N1	25-NOV-2008 00:10:40	Bright	56.000	42	34Bet Aur	1.9000	10200.	112	35226	No
4	GOM_TRA_1PNPDE20081125_003001_000000482074_00102_35226_9823.N1	25-NOV-2008 00:30:01	Bright	48.000	174	52Psi UMa	3.0040	4400.0	96	35226	No
5	GOM_TRA_1PNPDE20081125_004002_000000602074_00102_35226_9824.N1	25-NOV-2008 00:40:02	Bright	60.000	96	68Del Leo	2.5600	9300.0	120	35226	No
6	GOM_TRA_1PNPDE20081125_004333_000000722074_00102_35226_9825.N1	25-NOV-2008 00:43:33	Twilight	71.500	51	41Gam1Leo	2.0100	4500.0	143	35226	No
7	GOM_TRA_1PNPDE20081125_011054_000000552074_00103_35227_9971.N1	25-NOV-2008 01:10:54	Dark	55.000	70	Zet Pup	2.2460	39000.	110	35227	No
8	GOM_TRA_1PNPDE20081125_011437_000000602074_00103_35227_9972.N1	25-NOV-2008 01:14:37	Dark	60.000	117	Pi Pup	2.7060	3800.0	120	35227	No
9	GOM_TRA_1PNPDE20081125_011835_000000752074_00103_35227_9973.N1	25-NOV-2008 01:18:35	Dark	75.000	23	21Eps CMa	1.5020	26000.	150	35227	No
10	GOM_TRA_1PNPDE20081125_012051_000000812074_00103_35227_9974.N1	25-NOV-2008 01:20:51	Straylight	80.500	179	24Omi2CMa	3.0320	24000.	161	35227	No
11	GOM_TRA_1PNPDE20081125_012552_000001062074_00103_35227_9975.N1	25-NOV-2008 01:25:52	Straylight	106.00	1	9Alp CMa	-1.4400	11000.	212	35227	No
12	GOM_TRA_1PNPDE20081125_012954_000000662074_00103_35227_9976.N1	25-NOV-2008 01:29:54	Straylight	65.500	7	19Bet Ori	0.10000	14000.	131	35227	No
13	GOM_TRA_1PNPDE20081125_013326_000000742074_00103_35227_9977.N1	25-NOV-2008 01:33:26	Twilight	73.500	30	46Eps Ori	1.6940	30000.	147	35227	No
14	GOM_TRA_1PNPDE20081125_013819_000000552074_00103_35227_9978.N1	25-NOV-2008 01:38:19	Bright	54.500	13	87Alp Tau	0.86700	3800.0	109	35227	No
15	GOM_TRA_1PNPDE20081125_014433_000000492074_00103_35227_9979.N1	25-NOV-2008 01:44:33	Bright	49.000	114	3lot Aur	2.6930	4600.0	98	35227	No
16	GOM_TRA_1PNPDE20081125_014900_000000492074_00103_35227_9980.N1	25-NOV-2008 01:49:00	Bright	49.000	6	13Alp Aur	0.080000	3400.0	98	35227	No
17	GOM_TRA_1PNPDE20081125_015115_000000532074_00103_35227_9981.N1	25-NOV-2008 01:51:15	Bright	52.500	42	34Bet Aur	1.9000	10200.	105	35227	No
18	GOM_TRA_1PNPDE20081125_021037_000000482074_00103_35227_9982.N1	25-NOV-2008 02:10:37	Bright	48.000	174	52Psi UMa	3.0040	4400.0	96	35227	No
19	GOM_TRA_1PNPDE20081125_022038_000000562074_00103_35227_9983.N1	25-NOV-2008 02:20:38	Bright	56.000	96	68Del Leo	2.5600	9300.0	112	35227	No
20	GOM_TRA_1PNPDE20081125_022411_000000722074_00103_35227_0126.N1	25-NOV-2008 02:24:11	Twilight	72.000	51	41Gam1Leo	2.0100	4500.0	144	35227	Yes
21	GOM_TRA_1PNPDE20081125_025131_000000552074_00104_35228_0127.N1	25-NOV-2008 02:51:31	Dark	55.000	70	Zet Pup	2.2460	39000.	110	35228	No
22	GOM_TRA_1PNPDE20081125_025514_000000652074_00104_35228_0128.N1	25-NOV-2008 02:55:14	Dark	64.500	117	Pi Pup	2.7060	3800.0	129	35228	No
23	GOM_TRA_1PNPDE20081125_025912_000000712074_00104_35228_0129.N1	25-NOV-2008 02:59:12	Dark	70.500	23	21Eps CMa	1.5020	26000.	141	35228	No
24	GOM_TRA_1PNPDE20081125_030128_000000822074_00104_35228_0130.N1	25-NOV-2008 03:01:28	Straylight	81.500	179	24Omi2CMa	3.0320	24000.	163	35228	No
25	GOM_TRA_1PNPDE20081125_030628_000001102074_00104_35228_0131.N1	25-NOV-2008 03:06:28	Straylight	109.50	1	9Alp CMa	-1.4400	11000.	219	35228	No
26	GOM_TRA_1PNPDE20081125_031029_000000652074_00104_35228_0132.N1	25-NOV-2008 03:10:29	Straylight	65.000	7	19Bet Ori	0.10000	14000.	130	35228	No



27	GOM_TRA_1PNPDE20081125_031401_000000722074_00104_35228_0133.N1	25-NOV-2008 03:14:01	Twilight_stray	72.000	30	46Eps Ori	1.6940	30000.	144	35228	No
28	GOM_TRA_1PNPDE20081125_031658_000000752074_00104_35228_0134.N1	25-NOV-2008 03:16:58	Bright	74.500	27	24Gam Ori	1.6360	26000.	149	35228	No
29	GOM_TRA_1PNPDE20081125_031929_000000862074_00104_35228_0135.N1	25-NOV-2008 03:19:29	Bright	86.000	14	58Alp Ori	0.87000	3000.0	172	35228	No
30	GOM_TRA_1PNPDE20081125_032509_000000502074_00104_35228_0136.N1	25-NOV-2008 03:25:09	Bright	50.000	114	31lot Aur	2.6930	4600.0	100	35228	No
31	GOM_TRA_1PNPDE20081125_032935_000000562074_00104_35228_0137.N1	25-NOV-2008 03:29:35	Bright	55.500	6	13Alp Aur	0.080000	3400.0	111	35228	No
32	GOM_TRA_1PNPDE20081125_033150_000000532074_00104_35228_0138.N1	25-NOV-2008 03:31:50	Bright	53.000	42	34Bet Aur	1.9000	10200.	106	35228	No
33	GOM_TRA_1PNPDE20081125_035113_000000552074_00104_35228_0303.N1	25-NOV-2008 03:51:13	Bright	54.500	174	52Psi UMa	3.0040	4400.0	109	35228	No
34	GOM_TRA_1PNPDE20081125_040115_000000592074_00104_35228_0304.N1	25-NOV-2008 04:01:15	Bright	59.000	96	68Del Leo	2.5600	9300.0	118	35228	No
35	GOM_TRA_1PNPDE20081125_040449_000000642074_00104_35228_0305.N1	25-NOV-2008 04:04:49	Twilight_stray	64.000	51	41Gam1Leo	2.0100	4500.0	128	35228	No
36	GOM_TRA_1PNPDE20081125_043208_000000542074_00105_35229_0306.N1	25-NOV-2008 04:32:08	Dark	53.500	70	Zet Pup	2.2460	39000.	107	35229	No
37	GOM_TRA_1PNPDE20081125_043551_000000652074_00105_35229_0307.N1	25-NOV-2008 04:35:51	Dark	64.500	117	Pi Pup	2.7060	3800.0	129	35229	No
38	GOM_TRA_1PNPDE20081125_043949_000000732074_00105_35229_0308.N1	25-NOV-2008 04:39:49	Dark	73.000	23	21Eps CMa	1.5020	26000.	146	35229	No
39	GOM_TRA_1PNPDE20081125_044205_000000802074_00105_35229_0309.N1	25-NOV-2008 04:42:05	Straylight	80.000	179	24Omi2CMa	3.0320	24000.	160	35229	No
40	GOM_TRA_1PNPDE20081125_044704_000001102074_00105_35229_0310.N1	25-NOV-2008 04:47:04	Straylight	110.00	1	9Alp CMa	-1.4400	11000.	220	35229	No
41	GOM_TRA_1PNPDE20081125_045105_000000692074_00105_35229_0311.N1	25-NOV-2008 04:51:05	Straylight	68.500	7	19Bet Ori	0.10000	14000.	137	35229	No
42	GOM_TRA_1PNPDE20081125_045437_000000752074_00105_35229_0312.N1	25-NOV-2008 04:54:37	Twilight_stray	75.000	30	46Eps Ori	1.6940	30000.	150	35229	No
43	GOM_TRA_1PNPDE20081125_045733_000000762074_00105_35229_0313.N1	25-NOV-2008 04:57:33	Bright	75.500	27	24Gam Ori	1.6360	26000.	151	35229	No
44	GOM_TRA_1PNPDE20081125_050003_000000862074_00105_35229_0314.N1	25-NOV-2008 05:00:03	Bright	86.000	14	58Alp Ori	0.87000	3000.0	172	35229	No
45	GOM_TRA_1PNPDE20081125_050544_000000482074_00105_35229_0315.N1	25-NOV-2008 05:05:44	Bright	48.000	114	31lot Aur	2.6930	4600.0	96	35229	No
46	GOM_TRA_1PNPDE20081125_051010_000000502074_00105_35229_0316.N1	25-NOV-2008 05:10:10	Bright	50.000	6	13Alp Aur	0.080000	3400.0	100	35229	No
47	GOM_TRA_1PNPDE20081125_051225_000000542074_00105_35229_0317.N1	25-NOV-2008 05:12:25	Bright	54.000	42	34Bet Aur	1.9000	10200.	108	35229	No
48	GOM_TRA_1PNPDE20081125_053149_000000502074_00105_35229_0453.N1	25-NOV-2008 05:31:49	Bright	50.000	174	52Psi UMa	3.0040	4400.0	100	35229	No
49	GOM_TRA_1PNPDE20081125_054152_000000622074_00105_35229_0454.N1	25-NOV-2008 05:41:52	Bright	61.500	96	68Del Leo	2.5600	9300.0	123	35229	No

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



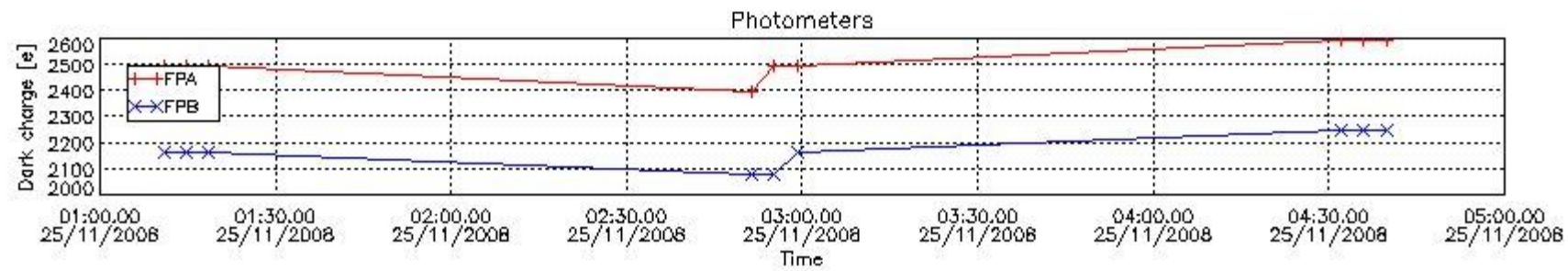
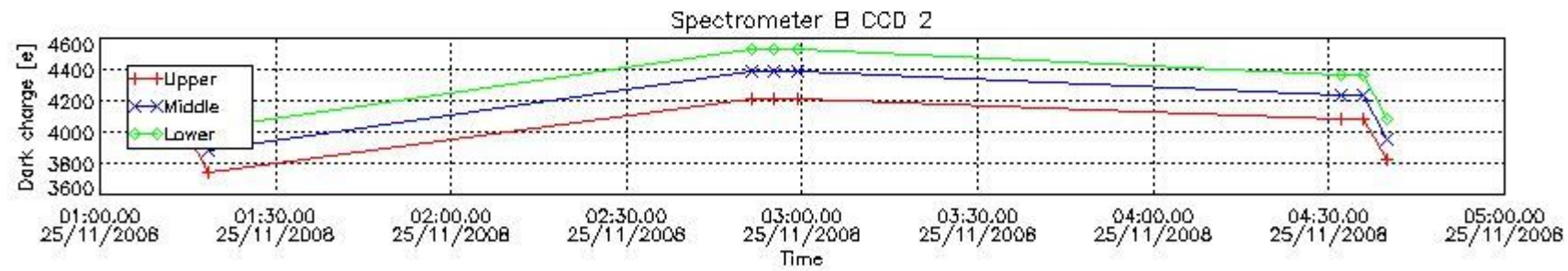
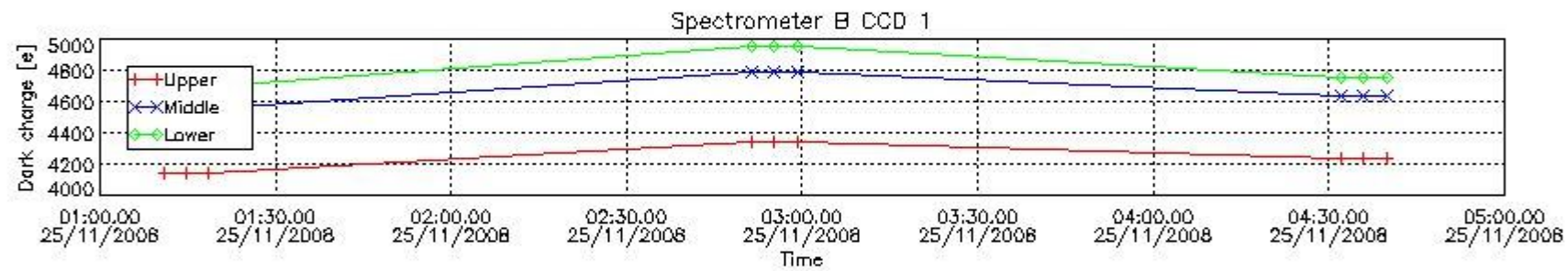
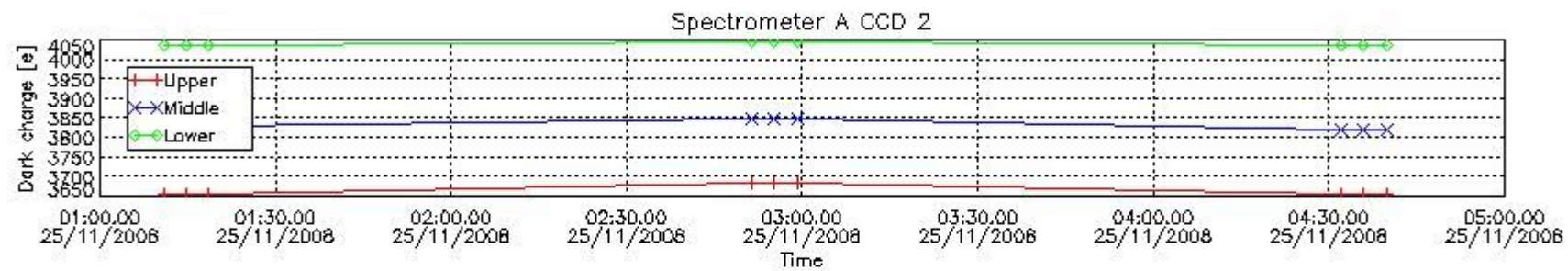
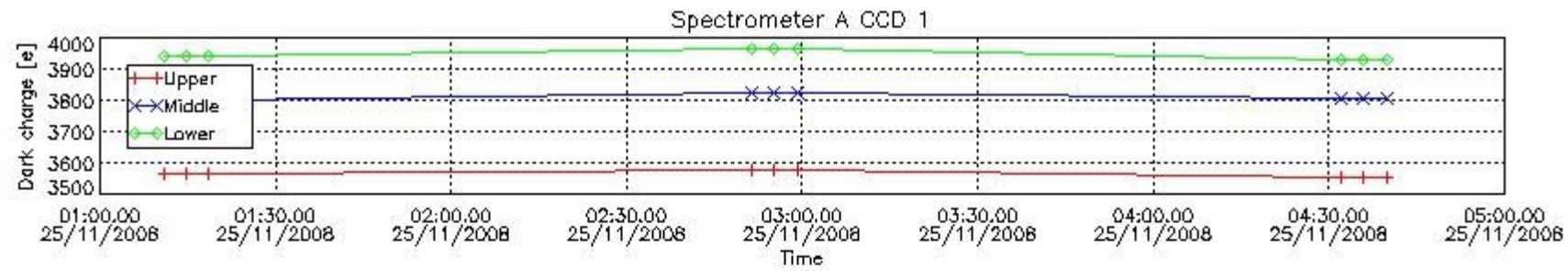
#### 4. Overview of dark signal processing per product

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

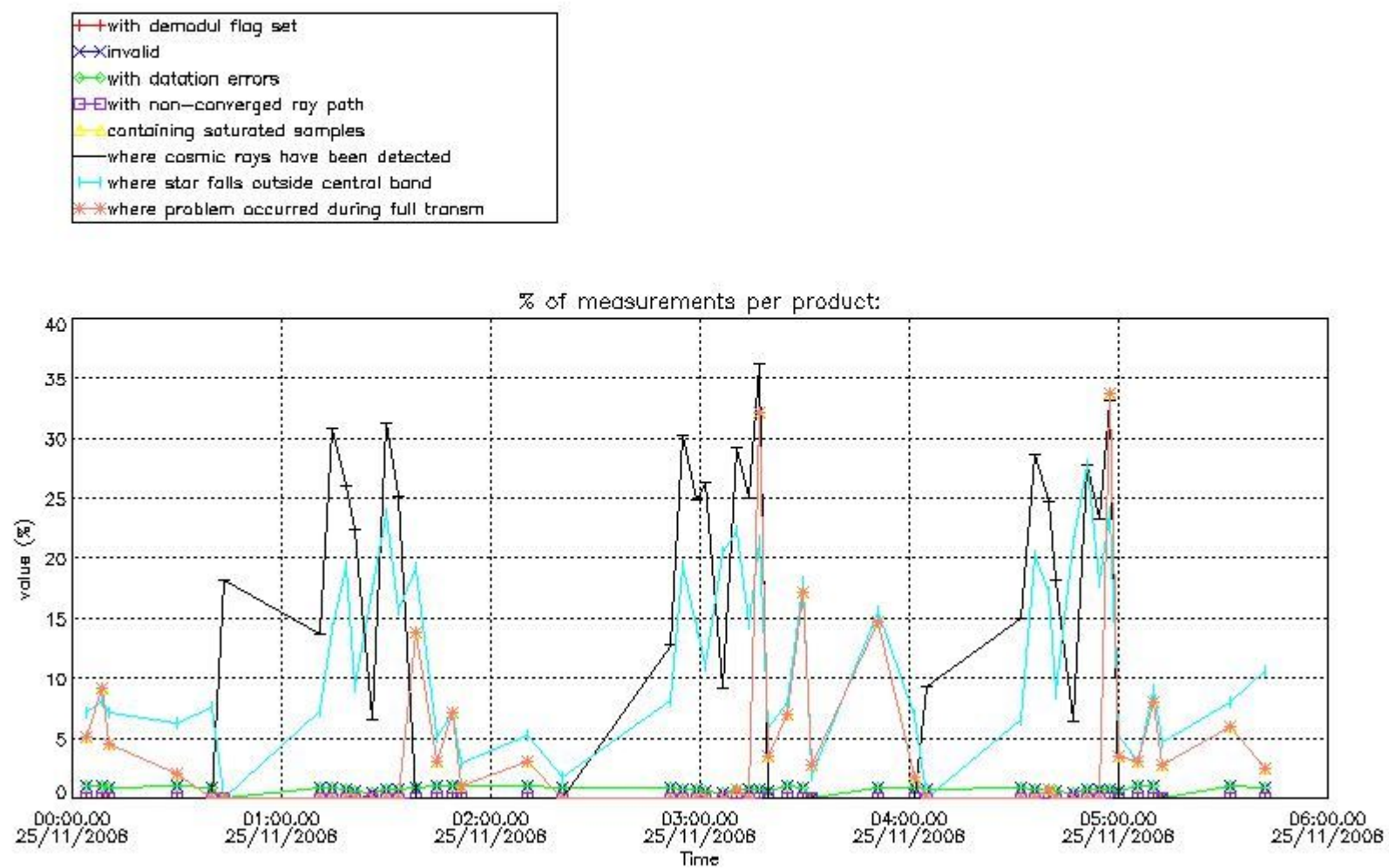
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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



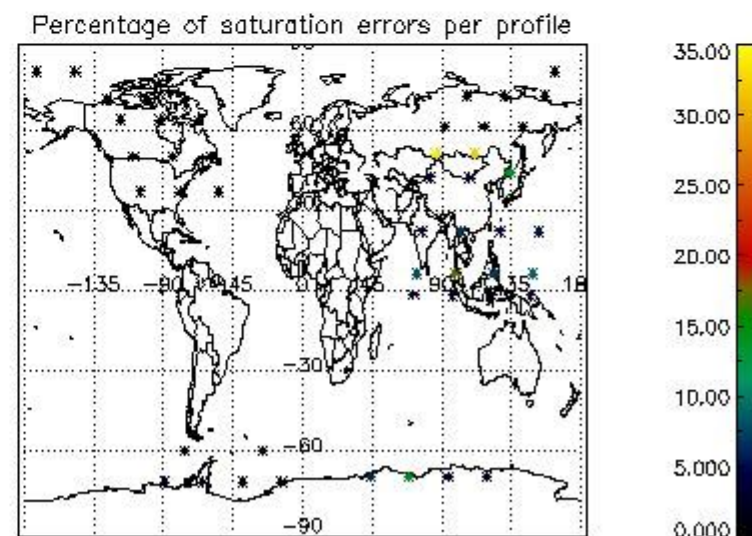
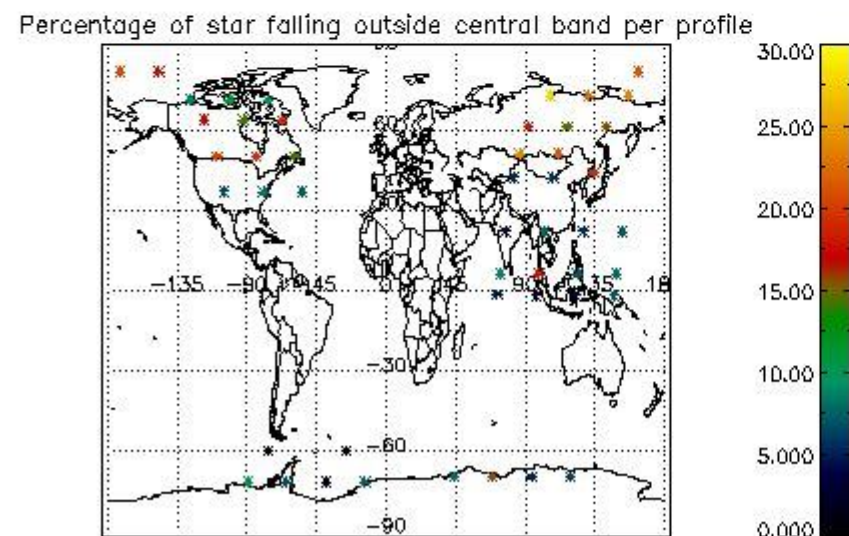
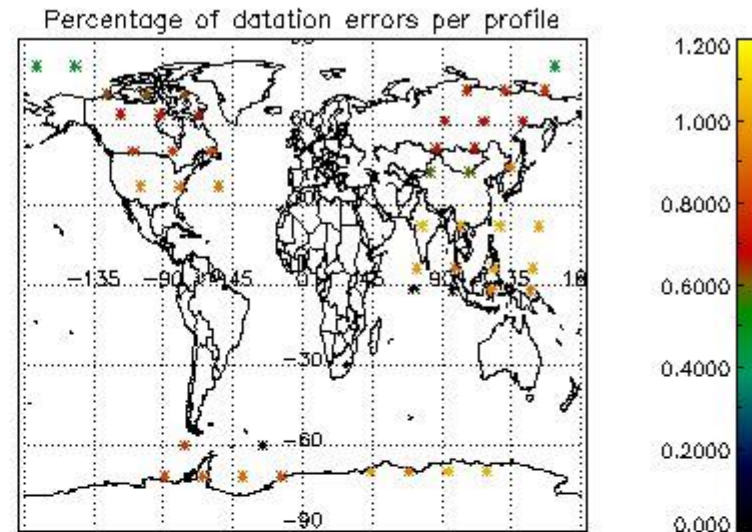
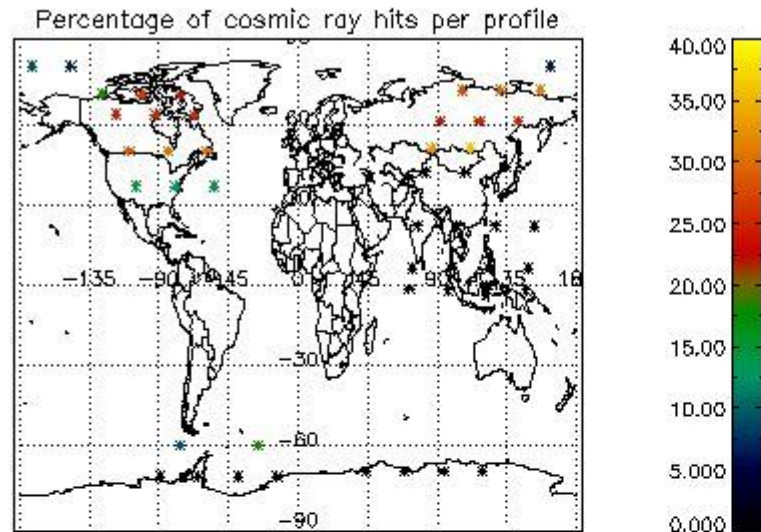
At least one measurement with demodulation flag set:	39.5833 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





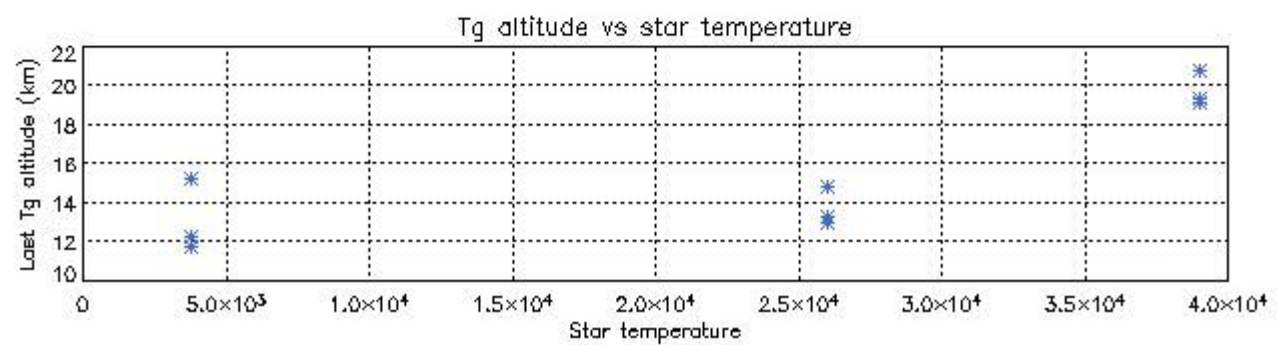
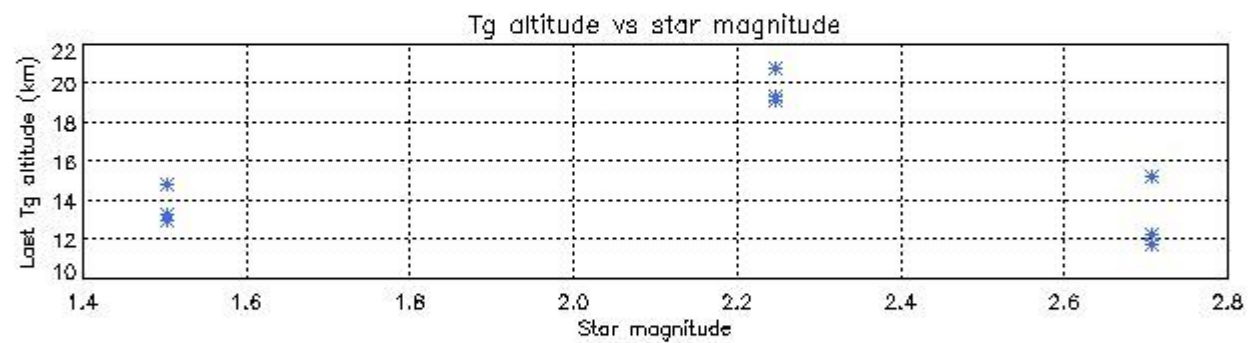
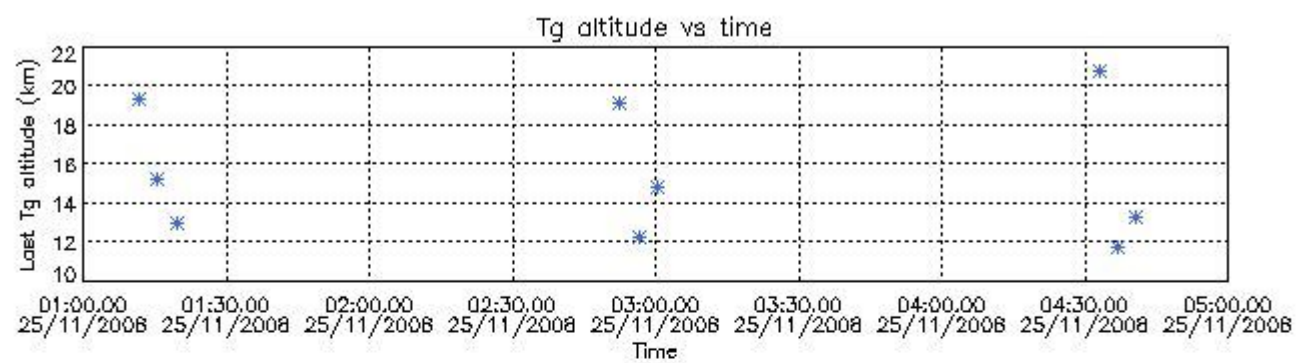
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.494	19.175	NaN
St. deviation:	3.3885	3.9606	NaN
Maximum:	20.746	25.345	NaN
Minimum:	11.705	10.551	NaN
Number of data:	9.0000	25.000	NaN

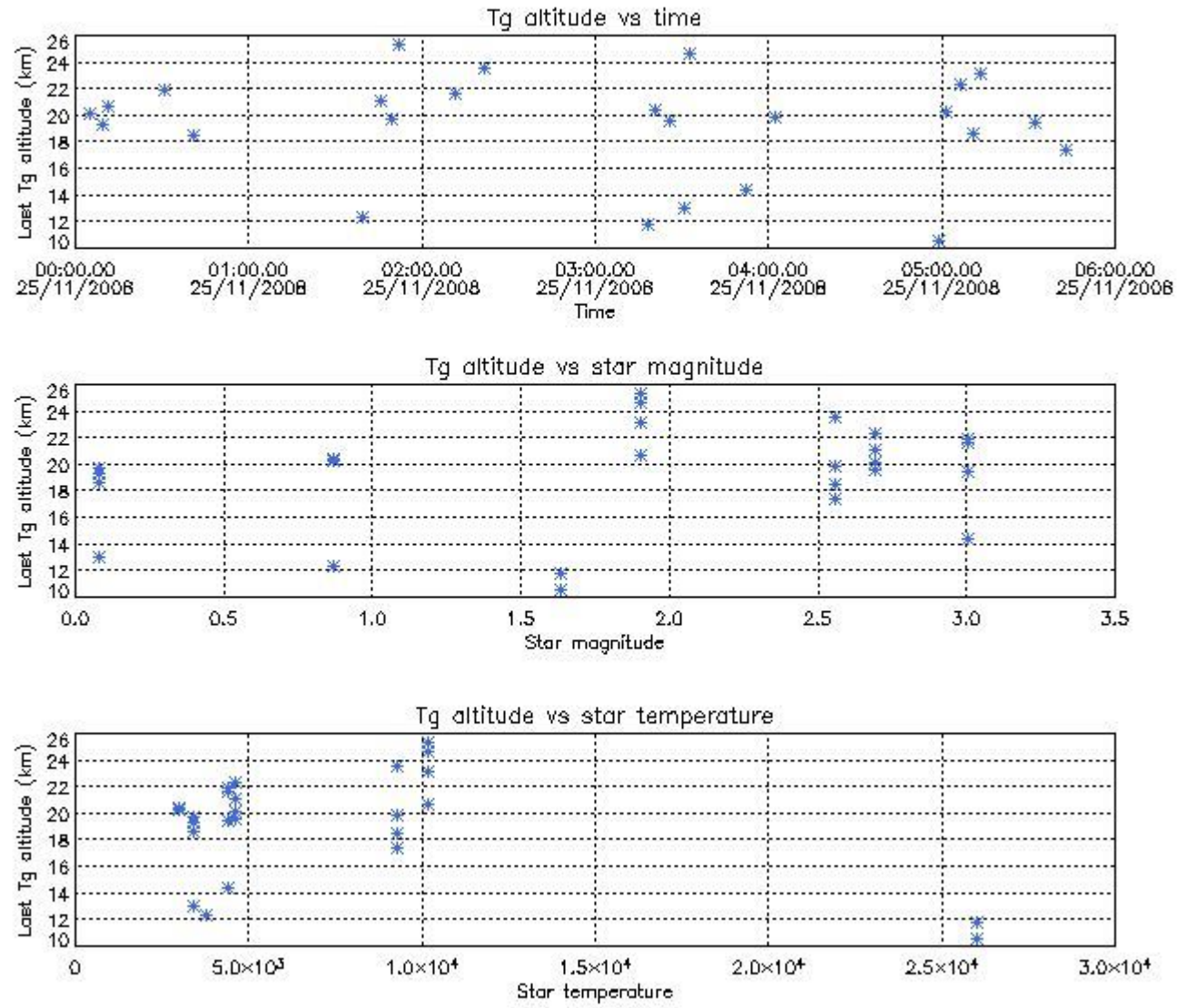
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost



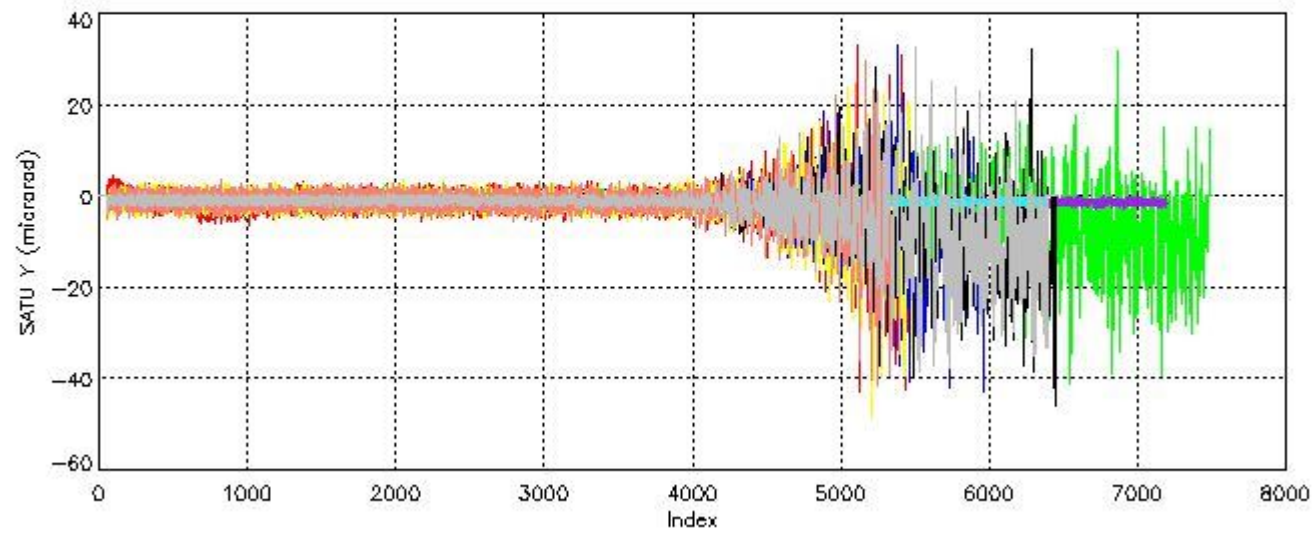
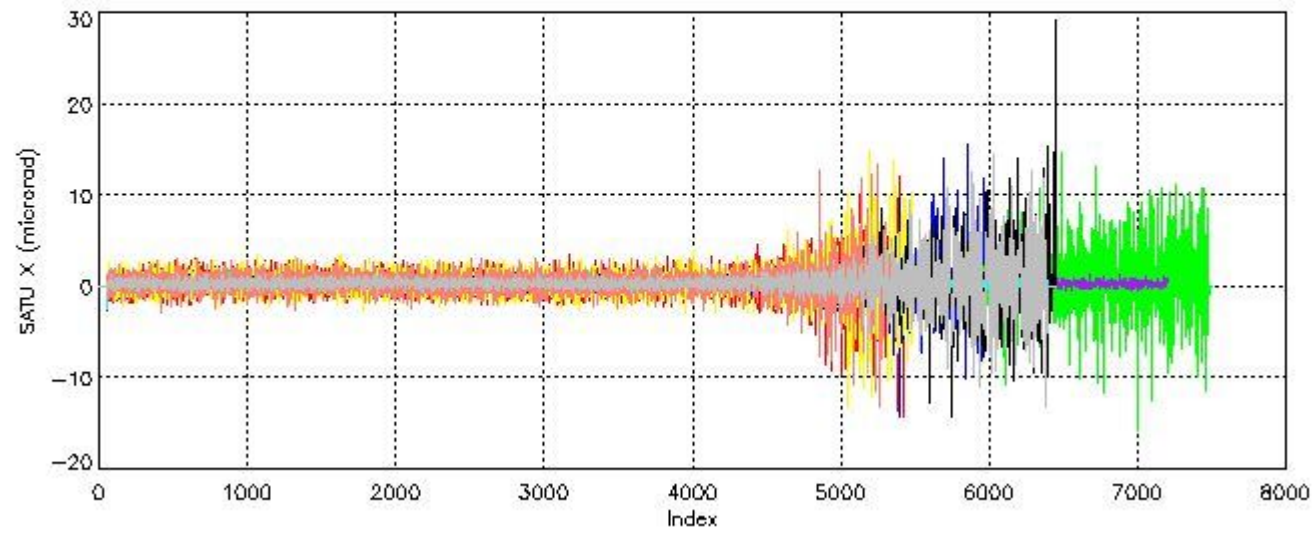
## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.35094	-0.93083	0.37789	-0.97732
St. deviation:	0.56917	1.1625	0.59396	1.0121
Maximum:	3.4000	4.6000	4.5000	4.1000
Minimum:	-2.8000	-6.6000	-3.3000	-6.2000



Number of data:	12350.	12350.	33000.	33000.
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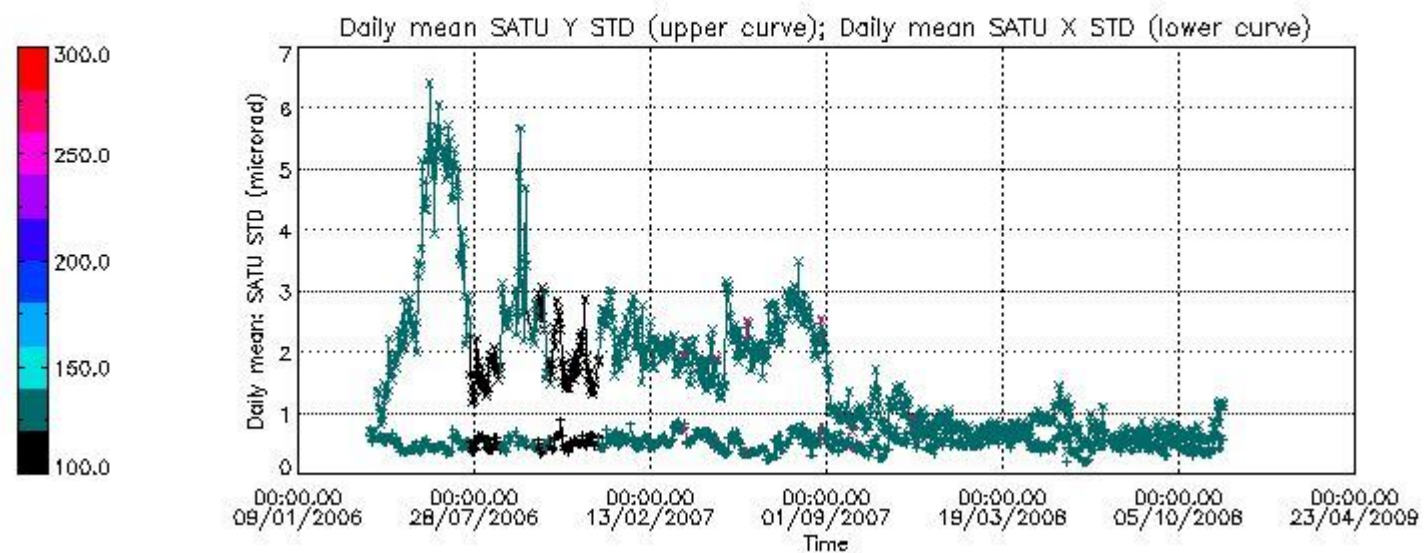
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

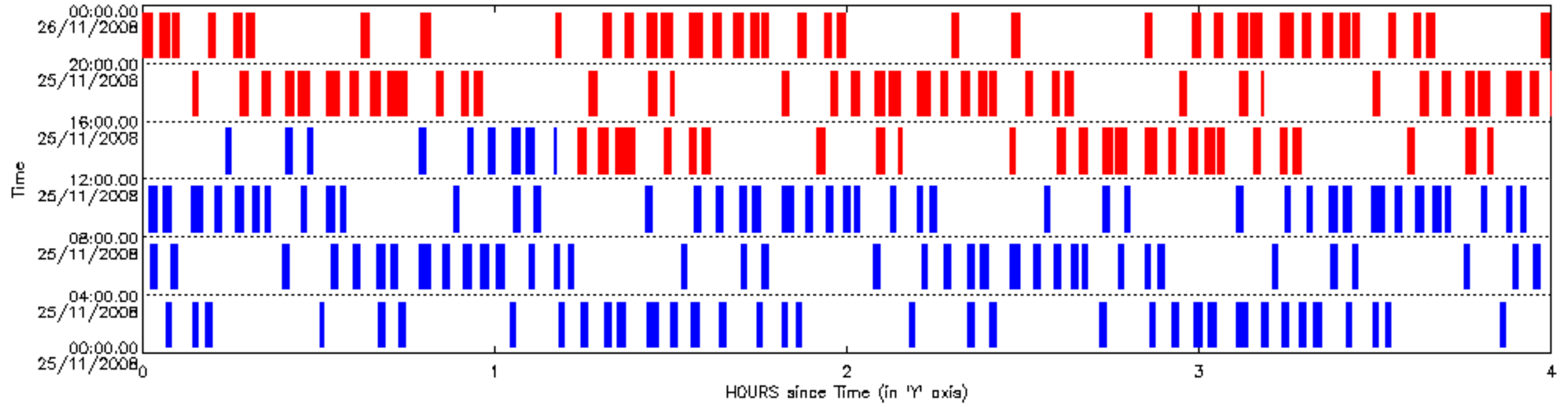
Lower curve: STD of SATU X axis

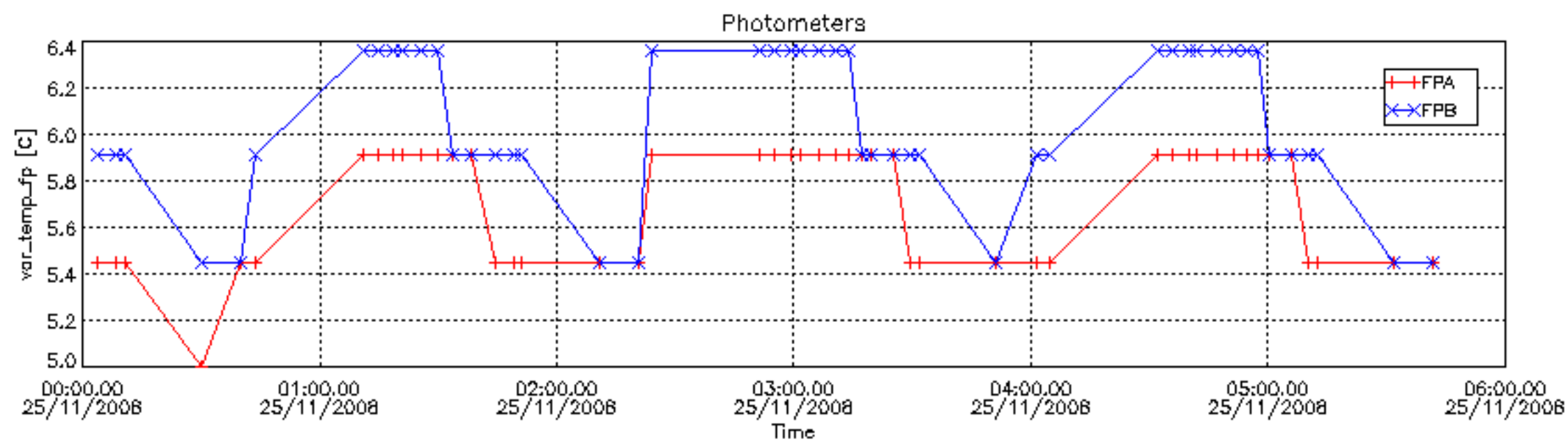
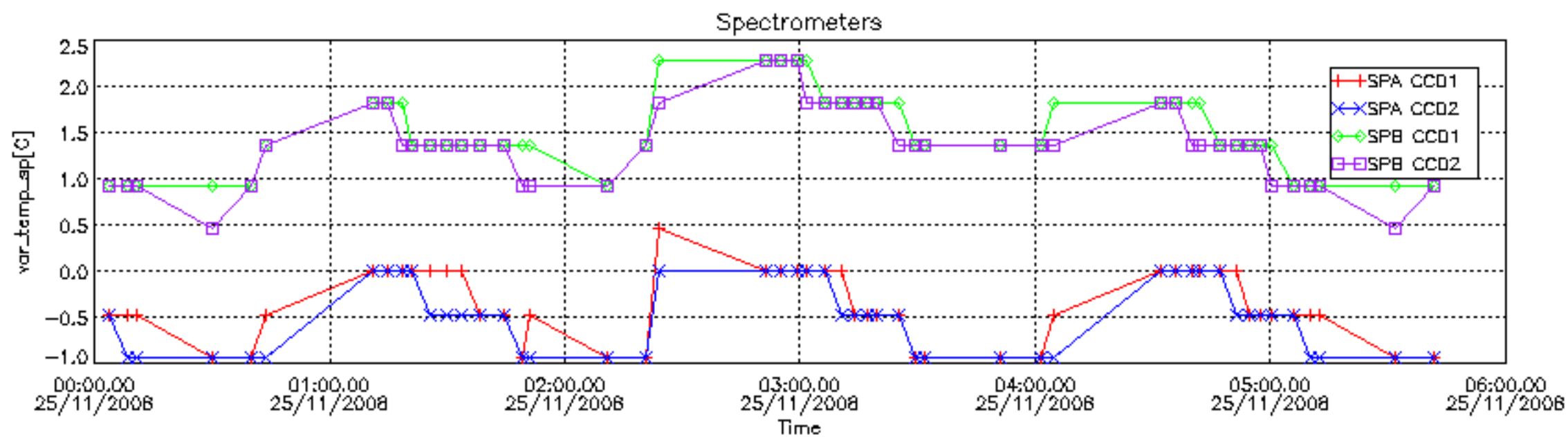


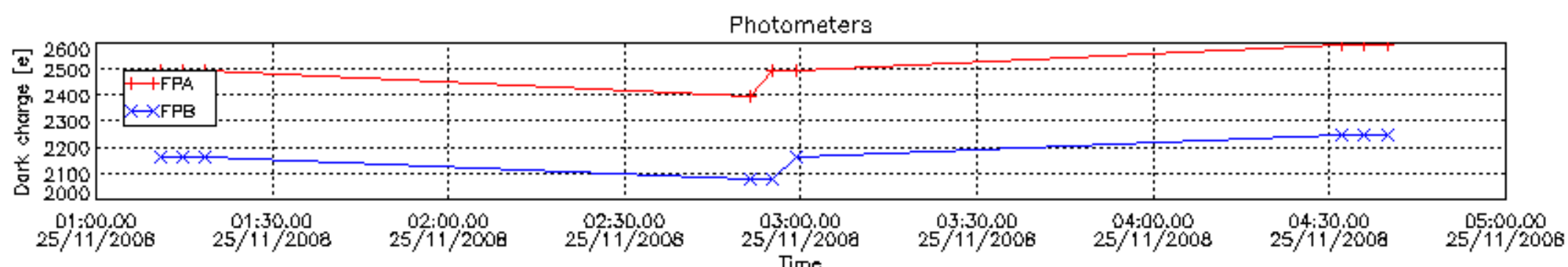
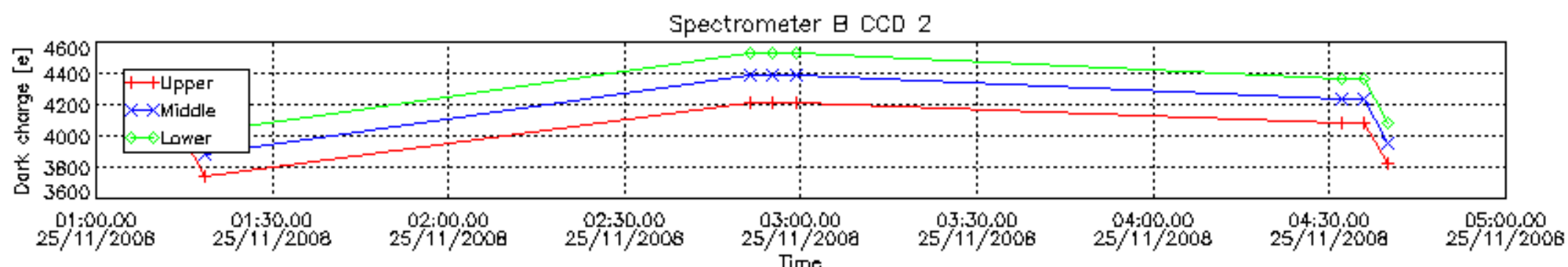
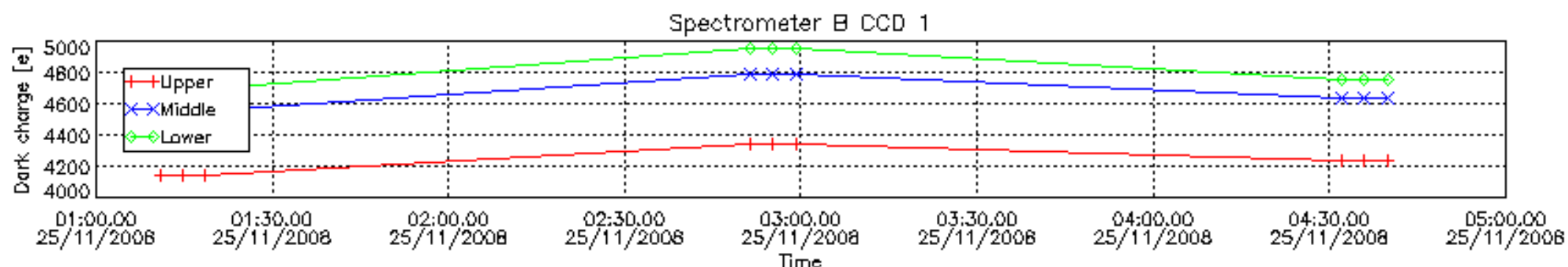
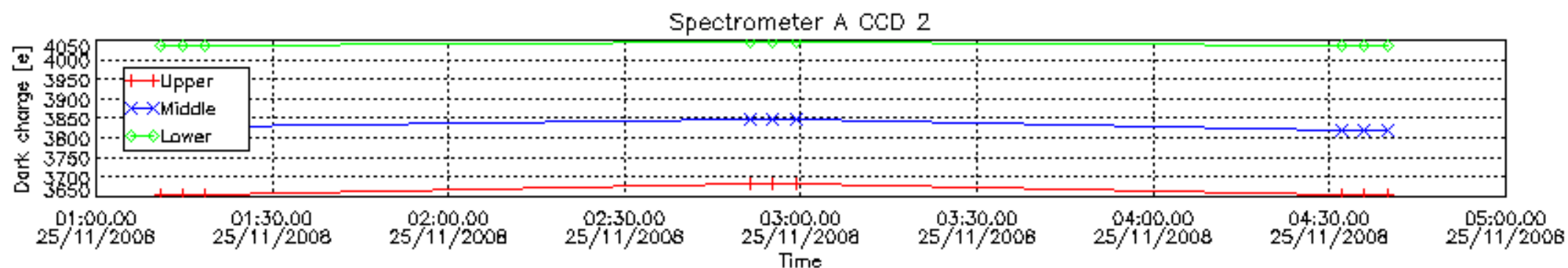
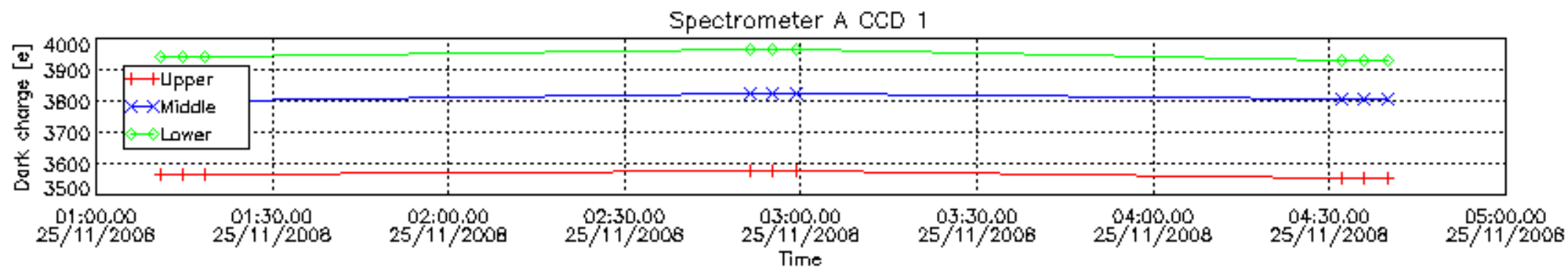
### 8. Auxiliary Data Files used for the production reported in section 2.4

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-NOV-2008 00:03:58
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20081117_091129_20081115_000000_20100101_000000	1	25-NOV-2008 00:03:58
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	25-NOV-2008 00:03:58
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-NOV-2008 00:03:58
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	25-NOV-2008 00:03:58
ECMWF_FILE	AUX_ECF_AXNECM20081124_072110_20081124_210000_20081125_090000	1	25-NOV-2008 00:03:58
ECMWF_FILE	AUX_ECF_AXNECM20081124_193359_20081125_030000_20081125_150000	33	25-NOV-2008 03:51:13
OPTIONAL_ECMWF_FILE	MISSING	1	25-NOV-2008 00:03:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081124_211932_000060572074_00100_35224_6834.N1	1	25-NOV-2008 00:03:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081124_230548_000057382074_00101_35225_6835.N1	7	25-NOV-2008 01:10:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081125_004645_000054192074_00102_35226_6836.N1	20	25-NOV-2008 02:24:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081125_022224_000041442074_00103_35227_6837.N1	33	25-NOV-2008 03:51:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081125_033647_000057382074_00104_35228_6838.N1	48	25-NOV-2008 05:31:49



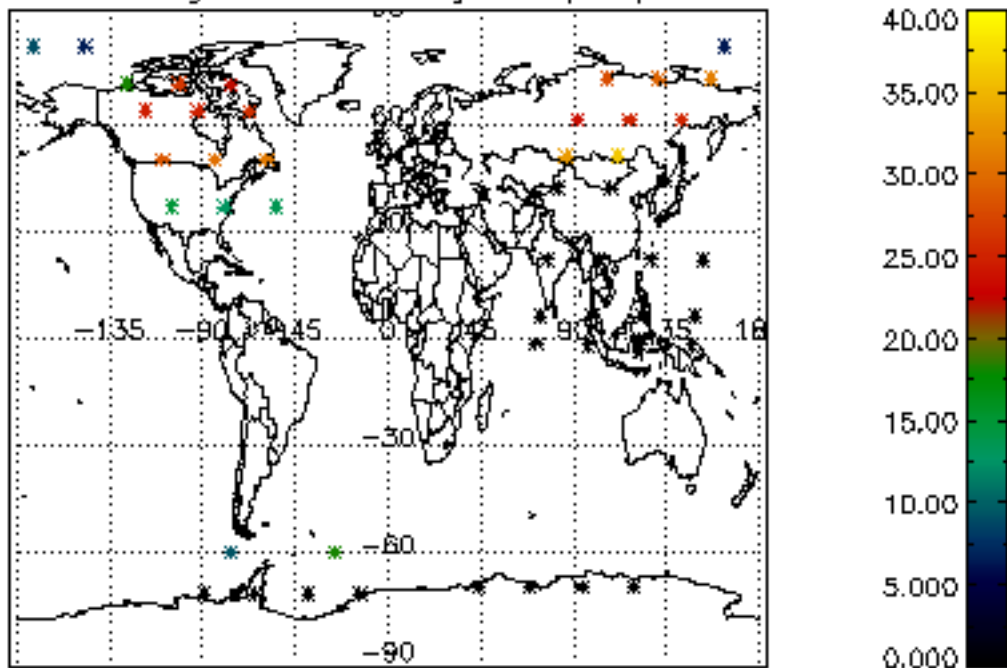




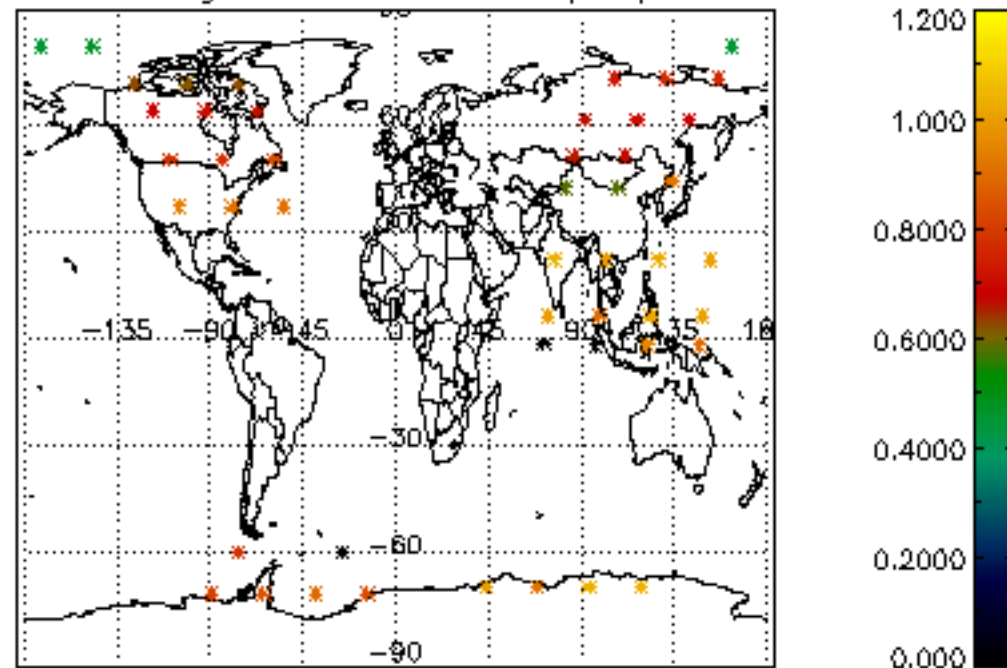




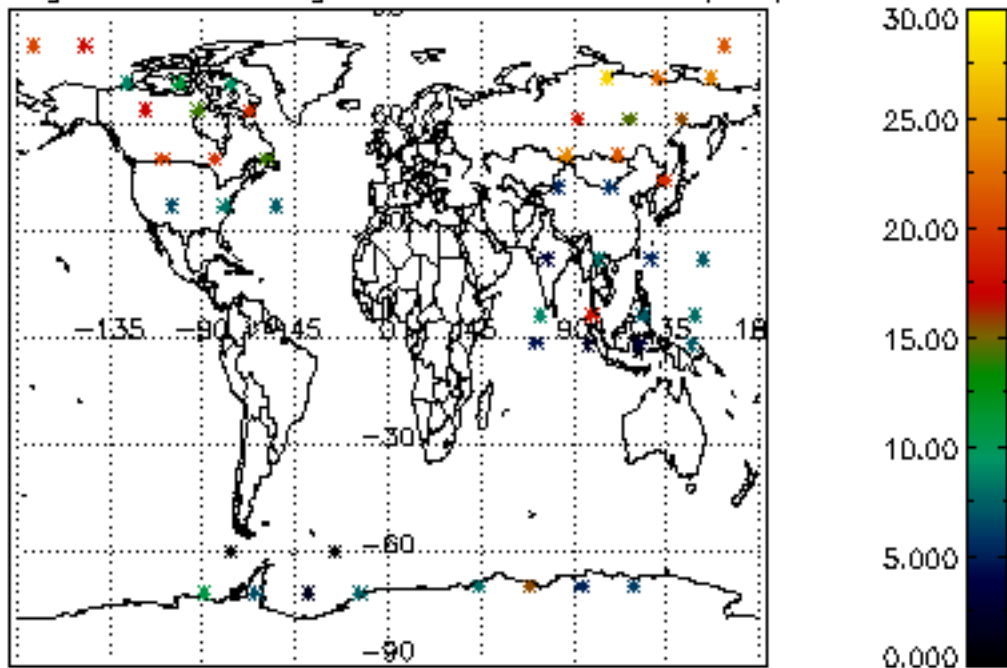
Percentage of cosmic ray hits per profile



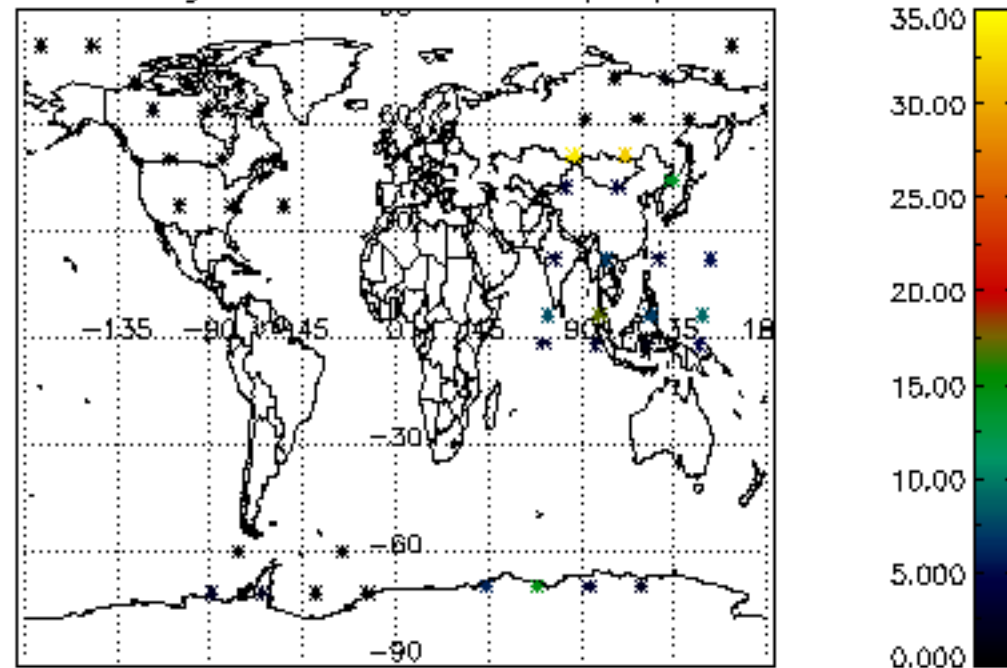
Percentage of datation errors per profile



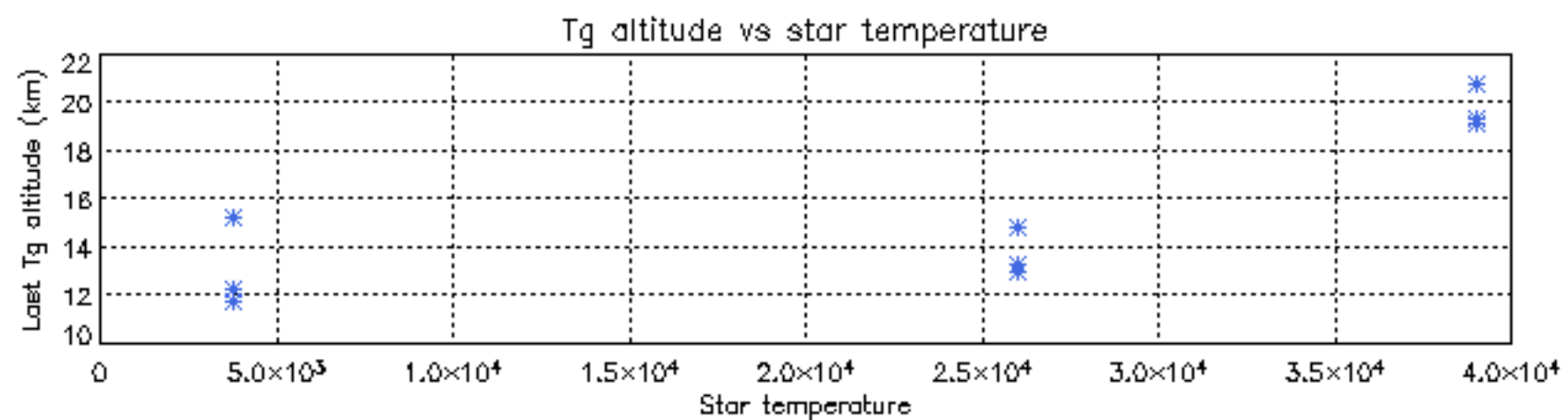
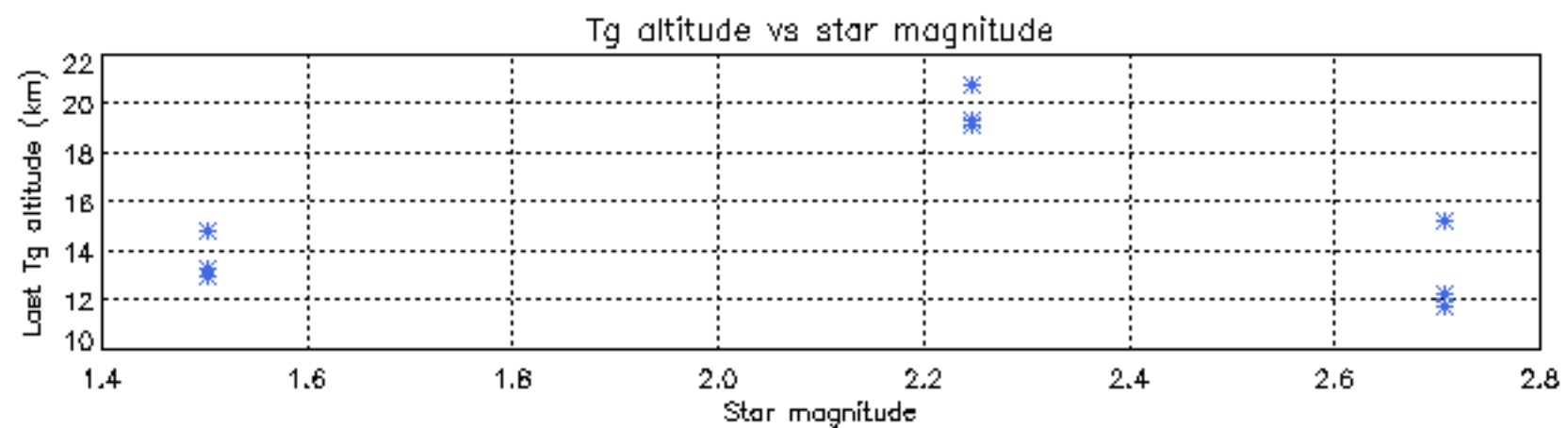
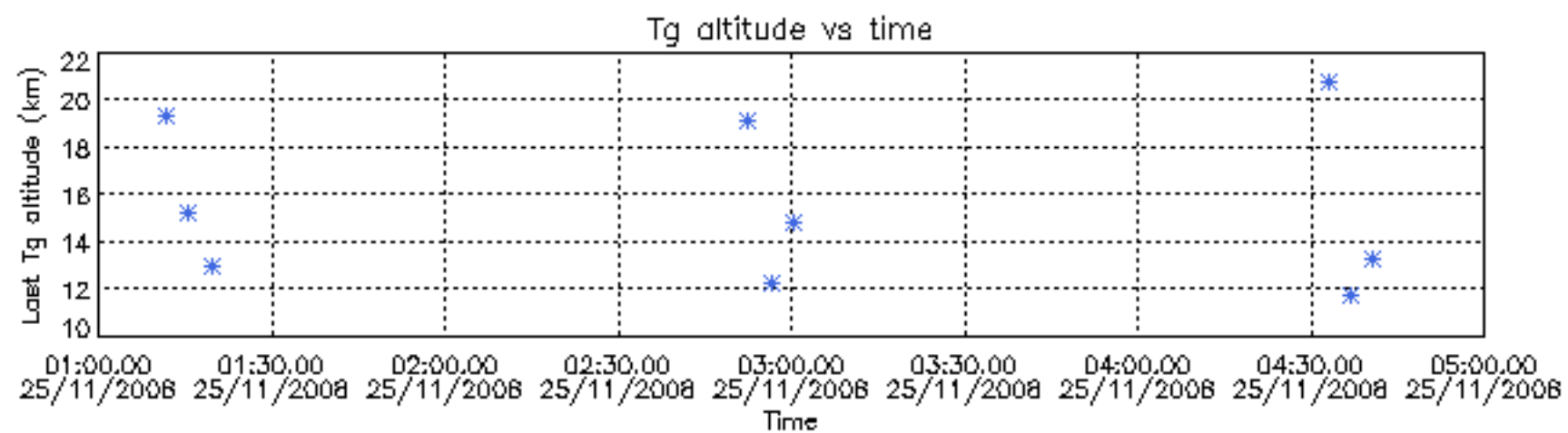
Percentage of star falling outside central band per profile



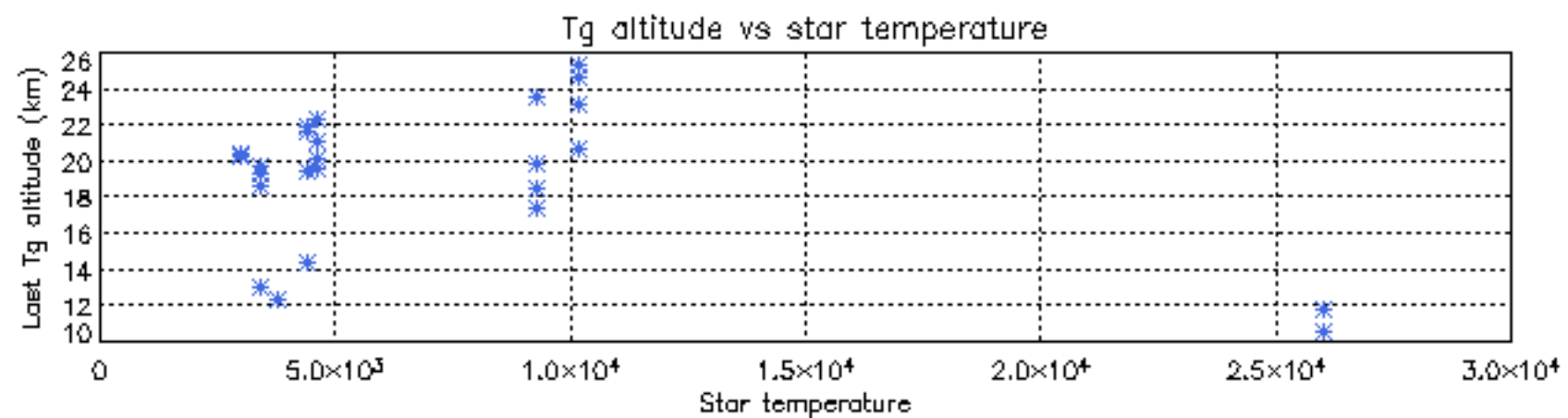
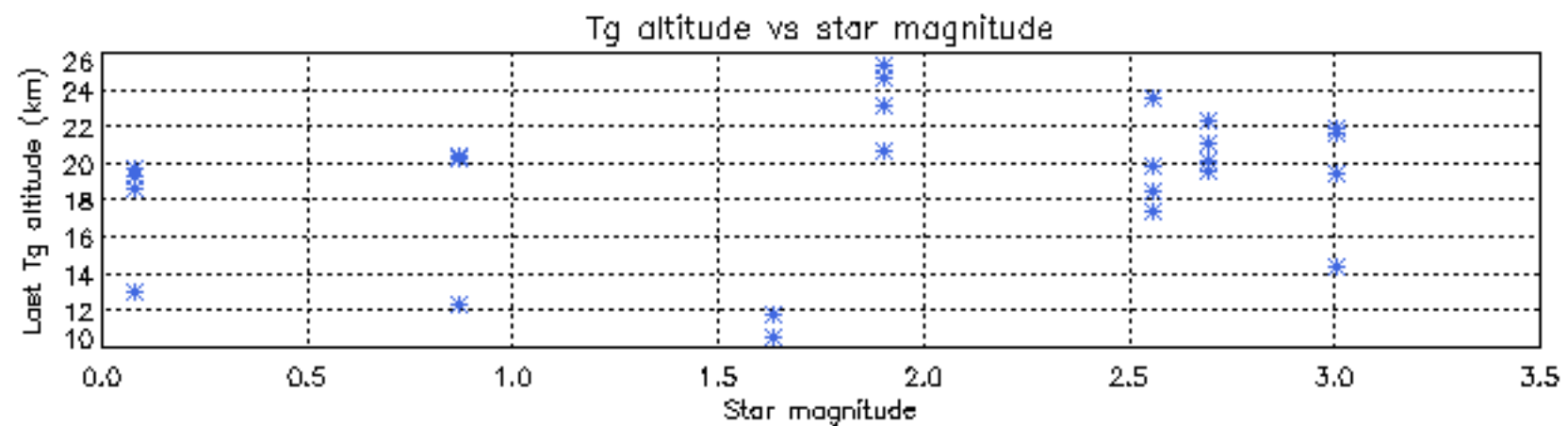
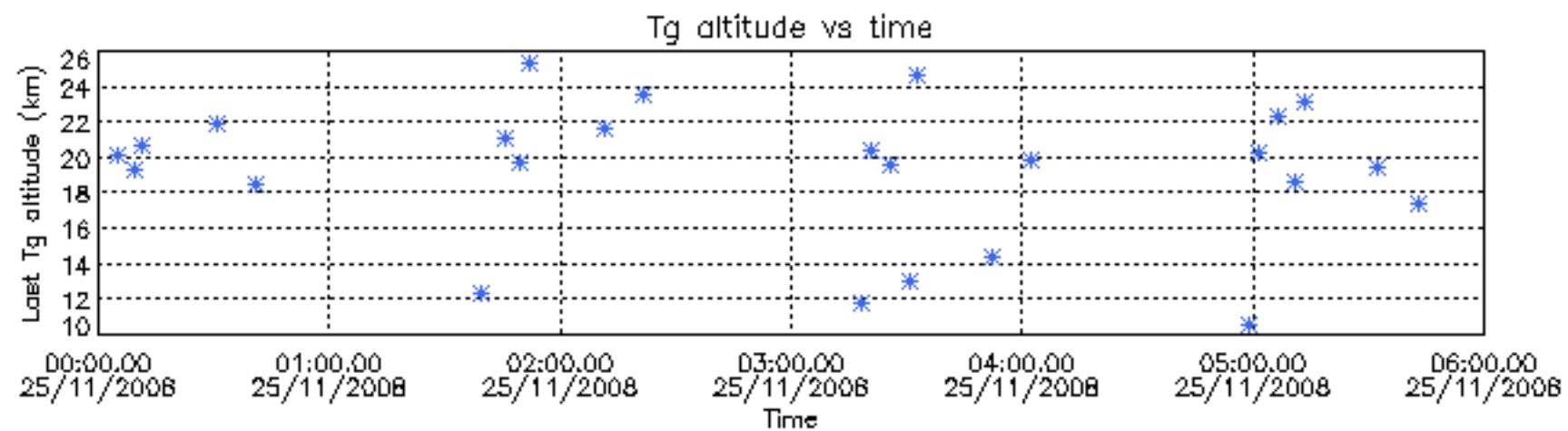
Percentage of saturation errors per profile



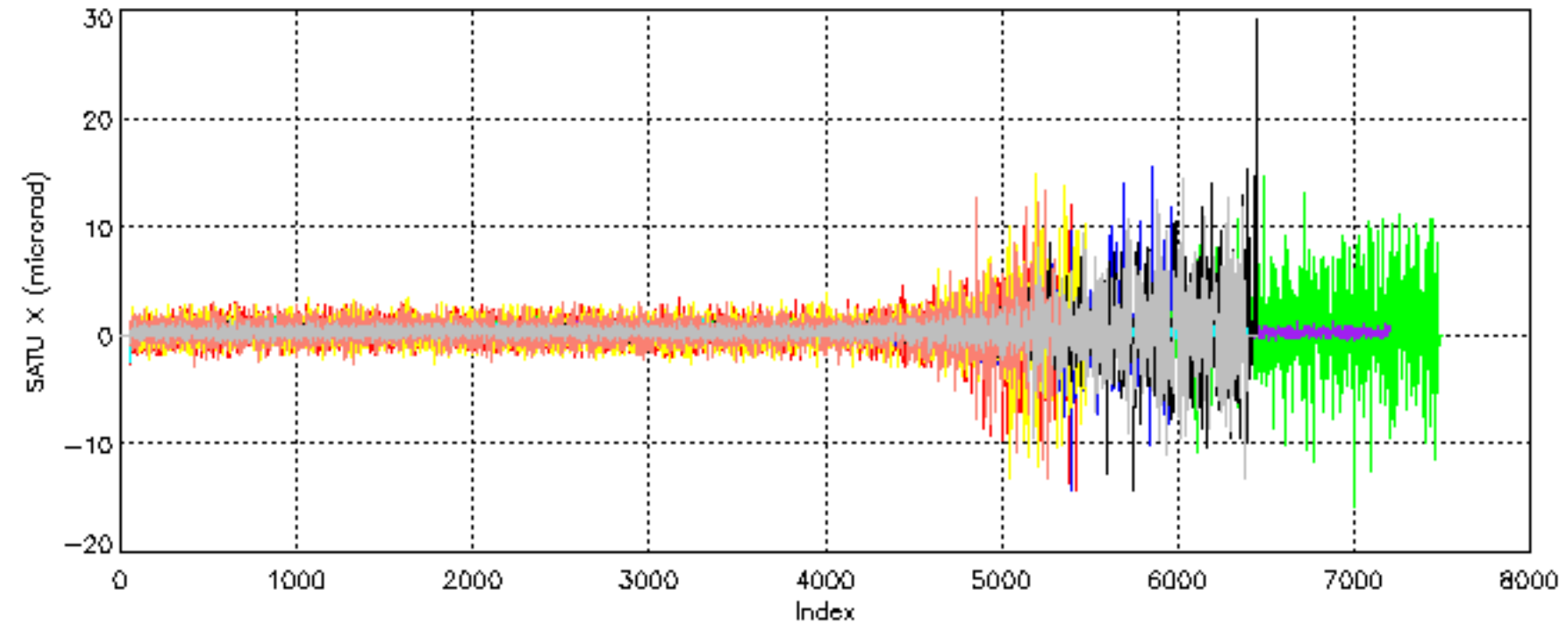
Tangent altitude at which the star is lost

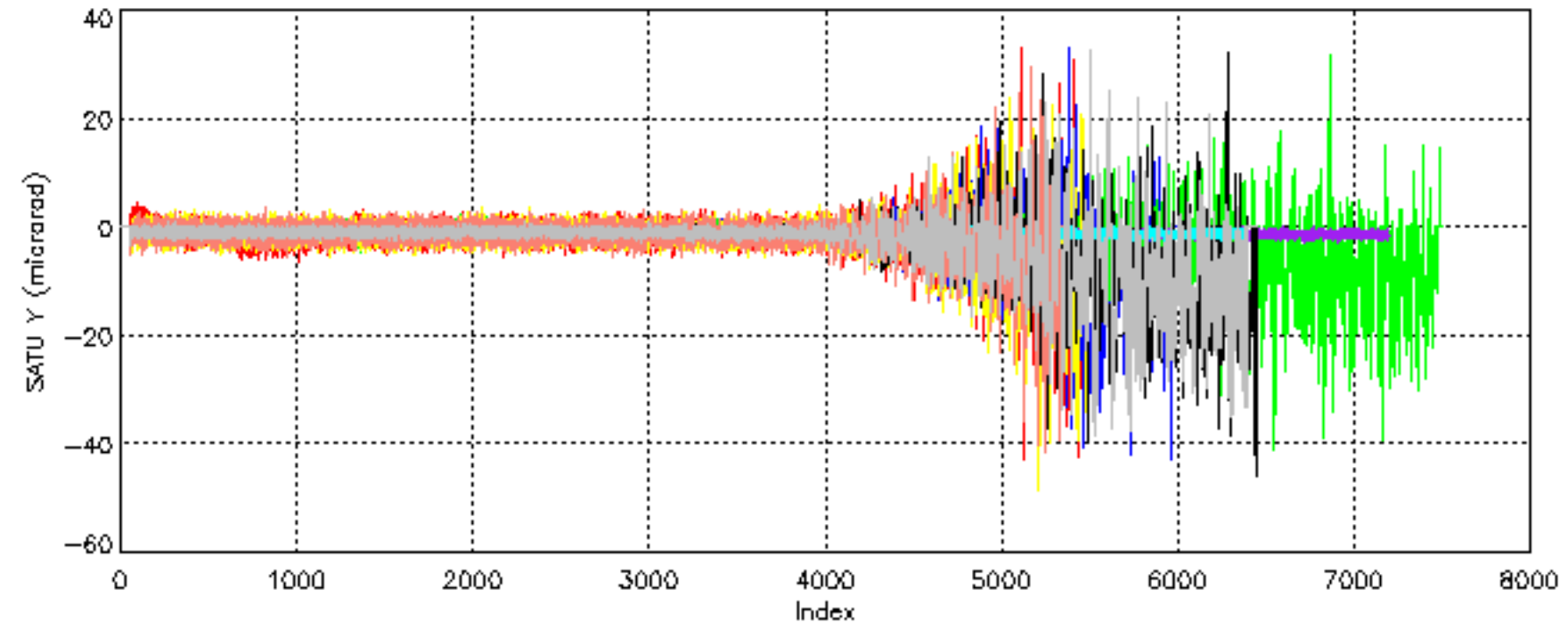


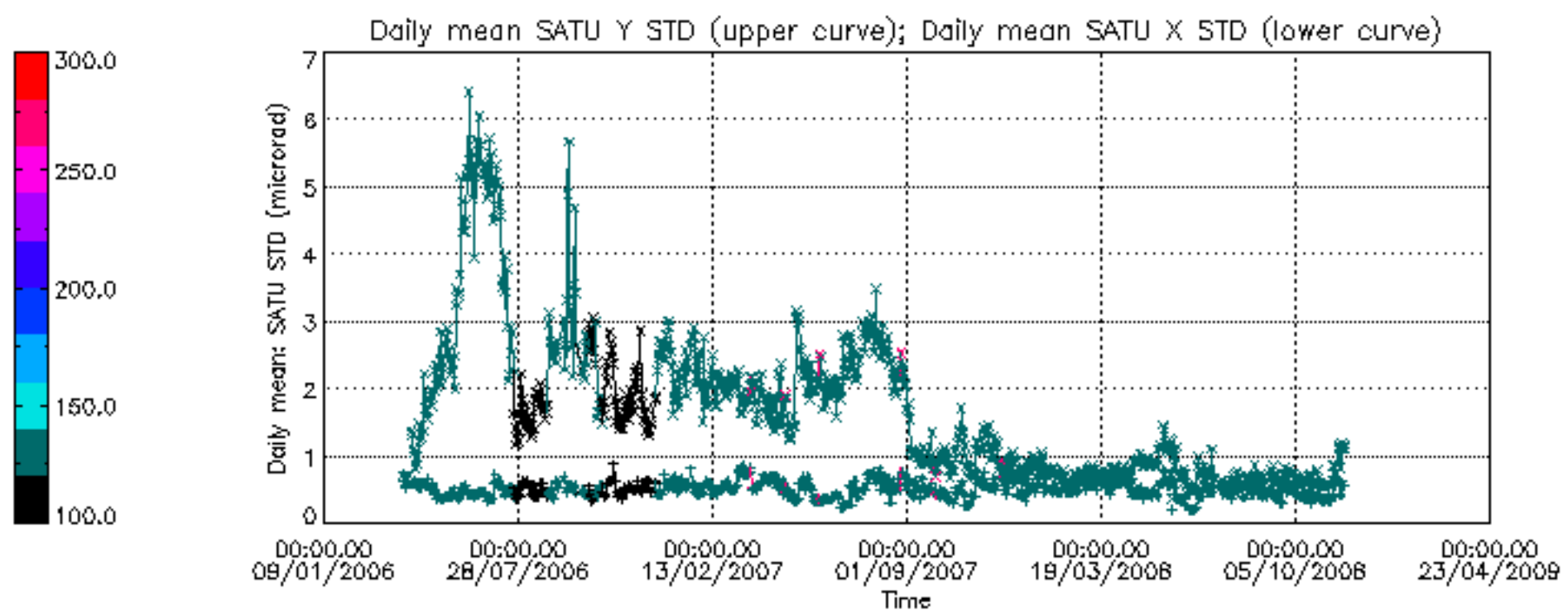
Tangent altitude at which the star is lost











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 2; 847.8; 01-NOV-2008 05:30:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886  
 3; 1024.0; 01-NOV-2008 05:33:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886  
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 5; 1508.8; 01-NOV-2008 05:41:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886  
 6; 1878.7; 01-NOV-2008 05:47:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886  
 7; 2264.3; 01-NOV-2008 05:54:06; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886  
 8; 2577.0; 01-NOV-2008 05:59:18; Bright; 58.5; 0; ; 0.00; 0;occ; 117; 0;34886  
 9; 3111.1; 01-NOV-2008 06:08:13; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886  
 10; 3386.3; 01-NOV-2008 06:12:48; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886  
 11; 3467.1; 01-NOV-2008 06:14:09; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20081101\_204052\_000035882073\_00272\_34895\_6754.N1

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 2; 2271.2; 01-NOV-2008 20:59:36; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;34895  
 3; 2514.1; 01-NOV-2008 21:03:39; Bright; 37.5; 53; 43Bet And ; 2.05; 3300;occ; 75; 0;34895  
 4; 2656.8; 01-NOV-2008 21:06:02; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;34895  
 5; 2868.1; 01-NOV-2008 21:09:33; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;34895  
 6; 2938.5; 01-NOV-2008 21:10:43; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;34895  
 7; 3423.5; 01-NOV-2008 21:18:48; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;34895  
 8; 3910.7; 01-NOV-2008 21:26:56; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;34895  
 9; 4007.6; 01-NOV-2008 21:28:33; Bright; 49.5; 82; 48Bet UMa ; 2.37; 10600;occ; 99; 0;34895  
 10; 4229.7; 01-NOV-2008 21:32:15; Bright; 57.0; 174; 52Psi UMa ; 3.00; 4400;occ; 114; 0;34895  
 11; 4677.4; 01-NOV-2008 21:39:42; Bright; 57.5; 96; 68Del Leo ; 2.56; 9300;occ; 115; 0;34895

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1; -164.7; 01-NOV-2008 21:59:36; Dark ; 39.5; 113; Mu Vel ; 2.69; 5000;occ; 79; 0;34895  
 2; 65.0; 01-NOV-2008 22:03:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34896  
 3; 147.1; 01-NOV-2008 22:04:48; Dark ; 44.0; 46; Del Vel ; 1.95; 10600;occ; 88; 0;34896  
 4; 226.6; 01-NOV-2008 22:06:07; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;34896  
 5; 537.3; 01-NOV-2008 22:11:18; Dark ; 63.0; 2; Alp Car ; -0.74; 7000;occ; 126; 0;34896  
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 7; 2271.0; 01-NOV-2008 22:40:12; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;34896  
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 9; 2656.5; 01-NOV-2008 22:46:37; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;34896  
 10; 2868.1; 01-NOV-2008 22:50:09; Bright; 45.5; 68; 18Alp Cas ; 2.22; 4500;occ; 91; 0;34896  
 11; 2938.4; 01-NOV-2008 22:51:19; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;34896  
 12; 3423.5; 01-NOV-2008 22:59:24; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;34896  
 13; 3910.6; 01-NOV-2008 23:07:31; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;34896  
 14; 4007.4; 01-NOV-2008 23:09:08; Bright; 56.0; 82; 48Bet UMa ; 2.37; 10600;occ; 112; 0;34896  
 15; 4229.7; 01-NOV-2008 23:12:51; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;34896  
 16; 4677.6; 01-NOV-2008 23:20:18; Bright; 37.5; 96; 68Del Leo ; 2.56; 9300;occ; 75; 0;34896

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 9; 2656.2; 02-NOV-2008 00:27:13; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;34897  
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 6; -1167.0; 01-NOV-2008 06:37:31; Bright; 59.0; 0; ; 0.00; 0;occ; 118; 0;34886  
 7; 457.3; 01-NOV-2008 07:04:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34887  
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 9; 1024.5; 01-NOV-2008 07:14:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34887



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10; 1133.4; 01-NOV-2008 07:15:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34887
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4; 3111.8; 01-NOV-2008 07:48:49; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34887
5; 3386.3; 01-NOV-2008 07:53:24; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34887
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9; 542.0; 02-NOV-2008 08:14:58; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;34902
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9; 246.5; 04-NOV-2008 05:26:13; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;34929
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11; 1157.5; 04-NOV-2008 05:41:24; Dark ; 39.0; 157; The1Eri ; 2.91; 9300;occ; 78; 0;34929
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 4; 2870.0; 04-NOV-2008 16:13:31; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;34935
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4; 2647.1; 04-NOV-2008 17:50:25; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;34936
5; 2870.1; 04-NOV-2008 17:54:08; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;34936
6; 3423.3; 04-NOV-2008 18:03:21; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;34936
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8; 3906.3; 04-NOV-2008 18:11:24; Bright; 40.5; 36; 50Alp UMA ; 1.80; 6300;occ; 81; 0;34936
9; 4003.7; 04-NOV-2008 18:13:01; Bright; 40.0; 82; 48Bet UMA ; 2.37; 10600;occ; 80; 0;34936
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14; 4229.2; 06-NOV-2008 22:15:20; Bright; 40.0; 174; 52Psi UMa ; 3.00; 4400;occ; 80; 0;34967
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5; 3423.1; 06-NOV-2008 08:37:07; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;34959
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9; 4229.4; 06-NOV-2008 08:50:33; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;34959
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 7; 3897.1; 09-NOV-2008 10:31:21; Bright; 40.5; 36; 50Alp UMa ; 1.80; 6300;occ; 81; 0;35003
 8; 3995.0; 09-NOV-2008 10:32:59; Bright; 39.5; 82; 48Bet UMa ; 2.37; 10600;occ; 79; 0;35003
 9; 4228.0; 09-NOV-2008 10:36:52; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;35003
10; 4318.7; 09-NOV-2008 10:38:23; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;35003
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9; 4228.0; 09-NOV-2008 12:17:28; Bright; 42.0; 174; 52Psi UMa ; 3.00; 4400;occ; 84; 0;35004
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18; 4227.1; 10-NOV-2008 23:30:02; Bright; 42.5; 174; 52Psi UMA ; 3.00; 4400;occ; 85; 0;35025
19; 4321.6; 10-NOV-2008 23:31:36; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;35025
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 9; 2262.2; 11-NOV-2008 00:37:53; Bright; 38.0; 105; 6Bet Ari ; 2.64; 8900;occ; 76; 0;35026  
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 11; 2632.7; 11-NOV-2008 00:44:03; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;35026  
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 13; 2930.0; 11-NOV-2008 00:49:00; Bright; 33.0; 110; 37Del Cas ; 2.68; 8900;occ; 66; 0;35026  
 14; 3422.7; 11-NOV-2008 00:57:13; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;35026  
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 19; 4321.8; 11-NOV-2008 01:12:12; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;35026  
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 9; 159.5; 10-NOV-2008 07:16:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35016  
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 4; 2634.0; 10-NOV-2008 07:58:05; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;35016  
 5; 2877.9; 10-NOV-2008 08:02:09; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;35016  
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 12; 4785.2; 10-NOV-2008 10:14:32; Bright; 40.0; 62; 94Bet Leo ; 2.14; 9700;occ; 80; 0;35017  
 13; 5386.2; 10-NOV-2008 10:24:33; Dark ; 42.0; 171; 2Eps Crv ; 3.00; 4250;occ; 84; 0;35017  
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 13; 4321.4; 10-NOV-2008 18:29:48; Bright; 52.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 104; 0;35022  
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4; -1714.1; 11-NOV-2008 02:52:48; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;35027
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5; -1713.8; 11-NOV-2008 04:33:24; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;35028
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4; 2628.9; 14-NOV-2008 14:14:31; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;35077
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12; 2364.7; 15-NOV-2008 03:34:54; Bright; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;35085
13; 2559.2; 15-NOV-2008 03:38:09; Bright; 44.0; 150; 44Zet Per ; 2.89; 28000;occ; 88; 0;35085
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15; 3039.3; 15-NOV-2008 03:46:09; Bright; 57.0; 6; 13Alp Aur ; 0.08; 3400;occ; 114; 0;35085
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 6; 797.9; 15-NOV-2008 04:49:24; Dark ; 77.5; 88; 31Eta CMa ; 2.45; 20000;occ; 155; 0;35086
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13; 2558.7; 15-NOV-2008 05:18:44; Bright; 43.0; 150; 44Zet Per ; 2.89; 28000;occ; 86; 0;35086
14; 2781.0; 15-NOV-2008 05:22:27; Bright; 58.5; 114; 3Iot Aur ; 2.69; 4600;occ; 117; 0;35086
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 4; 436.3; 15-NOV-2008 06:23:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35087
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 6; 799.4; 15-NOV-2008 06:30:01; Dark ; 77.0; 88; 31Eta CMa ; 2.45; 20000;occ; 154; 0;35087
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13; 2558.0; 15-NOV-2008 06:59:20; Bright; 44.5; 150; 44Zet Per ; 2.89; 28000;occ; 89; 0;35087
14; 2779.7; 15-NOV-2008 07:03:01; Bright; 58.5; 114; 3Iot Aur ; 2.69; 4600;occ; 117; 0;35087
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 4; 1455.0; 15-NOV-2008 20:05:44; Dark ; 54.0; 47; 2Bet CMa ; 1.98; 28000;occ; 108; 0;35095
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 9; 3028.8; 15-NOV-2008 20:31:58; Bright; 56.0; 6; 13Alp Aur ; 0.08; 3400;occ; 112; 0;35095
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11; 4742.0; 15-NOV-2008 21:00:31; Bright; 47.0; 96; 68Del Leo ; 2.56; 9300;occ; 94; 0;35095
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 5; 812.9; 15-NOV-2008 21:35:38; Dark ; 80.5; 88; 31Eta CMa ; 2.45; 20000;occ; 161; 0;35096
 6; 946.9; 15-NOV-2008 21:37:52; Dark ; 83.5; 23; 21Eps CMa ; 1.50; 26000;occ; 167; 0;35096
 7; 1083.4; 15-NOV-2008 21:40:08; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;35096
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11; 2767.6; 15-NOV-2008 23:48:48; Bright; 58.5; 114; 3Iot Aur ; 2.69; 4600;occ; 117; 0;35097
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13; 3205.9; 15-NOV-2008 23:56:07; Bright; 59.0; 42; 34Bet Aur ; 1.90; 10200;occ; 118; 0;35097
14; 4742.8; 16-NOV-2008 00:21:44; Bright; 48.0; 96; 68Del Leo ; 2.56; 9300;occ; 96; 0;35097
15; 4852.8; 16-NOV-2008 00:23:34; Dark ; 104.0; 166; 17Eps Leo ; 2.98; 6000;occ; 208; 0;35097
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7; 2027.7; 20-NOV-2008 02:31:48; Dark ; 87.0; 30; 46Eps Ori ; 1.69; 30000;occ; 174; 0;35156
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9; 2704.0; 20-NOV-2008 02:43:05; Bright; 54.0; 114; 3Iot Aur ; 2.69; 4600;occ; 108; 0;35156
10; 2968.8; 20-NOV-2008 02:47:29; Bright; 53.5; 6; 13Alp Aur ; 0.08; 3400;occ; 107; 0;35156
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6; 1016.2; 20-NOV-2008 03:55:33; Dark ; 75.5; 23; 21Eps CMA ; 1.50; 26000;occ; 151; 0;35157
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8; 1472.7; 20-NOV-2008 04:03:09; Dark ; 96.0; 47; 2Bet CMA ; 1.98; 28000;occ; 192; 0;35157
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13; 2967.9; 20-NOV-2008 04:28:04; Bright; 53.5; 6; 13Alp Aur ; 0.08; 3400;occ; 107; 0;35157
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6; 1017.2; 20-NOV-2008 05:36:10; Dark ; 78.5; 23; 21Eps CMA ; 1.50; 26000;occ; 157; 0;35158
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 9; 3114.0; 20-NOV-2008 21:16:30; Bright; 59.0; 42; 34Bet Aur ; 1.90; 10200;occ; 118; 0;35167
10; 4214.4; 20-NOV-2008 21:34:50; Bright; 47.0; 174; 52Psi UMa ; 3.00; 4400;occ; 94; 0;35167
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12; 3112.8; 20-NOV-2008 22:57:05; Bright; 56.5; 42; 34Bet Aur ; 1.90; 10200;occ; 113; 0;35168
13; 4214.3; 20-NOV-2008 23:15:26; Bright; 47.0; 174; 52Psi UMa ; 3.00; 4400;occ; 94; 0;35168
14; 4774.5; 20-NOV-2008 23:24:46; Bright; 54.5; 96; 68Del Leo ; 2.56; 9300;occ; 109; 0;35168
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14; 4774.9; 21-NOV-2008 01:05:23; Bright; 59.5; 96; 68Del Leo ; 2.56; 9300;occ; 119; 0;35169
15; 4939.1; 21-NOV-2008 01:08:07; Dark ; 108.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 216; 0;35169
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6; 3122.7; 20-NOV-2008 09:32:27; Bright; 55.5; 42; 34Bet Aur ; 1.90; 10200;occ; 111; 0;35160
7; 4215.5; 20-NOV-2008 09:50:40; Bright; 46.0; 174; 52Psi UMa ; 3.00; 4400;occ; 92; 0;35160
8; 4770.5; 20-NOV-2008 09:59:55; Bright; 53.0; 96; 68Del Leo ; 2.56; 9300;occ; 106; 0;35160
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13; 7058.3; 20-NOV-2008 13:59:14; Dark ; 78.5; 23; 21Eps CMA ; 1.50; 26000;occ; 157; 0;35162
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12; 6827.0; 21-NOV-2008 08:21:59; Dark ; 62.0; 117; Pi Pup ; 2.71; 3800;occ; 124; 0;35173  
13; 7069.7; 21-NOV-2008 08:26:01; Dark ; 74.5; 23; 21Eps CMA ; 1.50; 26000;occ; 149; 0;35173  
14; 7208.6; 21-NOV-2008 08:28:20; Dark ; 87.5; 179; 240mi2CMA ; 3.03; 24000;occ; 175; 0;35173  
15; 7512.9; 21-NOV-2008 08:33:25; Dark ; 95.0; 47; 2Bet CMA ; 1.98; 28000;occ; 190; 0;35173  
16; 7806.9; 21-NOV-2008 08:38:19; Dark ; 26.0; 7; 19Bet Ori ; 0.10; 14000;occ; 52; 0;35173

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3; 2296.6; 21-NOV-2008 08:47:04; Bright; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;35174  
4; 2687.0; 21-NOV-2008 08:53:35; Bright; 53.0; 114; 3Iot Aur ; 2.69; 4600;occ; 106; 0;35174  
5; 2952.5; 21-NOV-2008 08:58:00; Bright; 52.5; 6; 13Alp Aur ; 0.08; 3400;occ; 105; 0;35174  
6; 3105.4; 21-NOV-2008 09:00:33; Bright; 58.5; 42; 34Bet Aur ; 1.90; 10200;occ; 117; 0;35174  
7; 4213.6; 21-NOV-2008 09:19:01; Bright; 48.0; 174; 52Psi UMa ; 3.00; 4400;occ; 96; 0;35174  
8; 4777.4; 21-NOV-2008 09:28:25; Bright; 53.5; 96; 68Del Leo ; 2.56; 9300;occ; 107; 0;35174  
9; 4945.0; 21-NOV-2008 09:31:13; Dark ; 101.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 202; 0;35174  
10; 5292.2; 21-NOV-2008 09:37:00; Dark ; 63.0; 22; 32Alp Leo ; 1.36; 15200;occ; 126; 0;35174  
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2; 792.1; 21-NOV-2008 10:02:36; Dark ; 63.0; 117; Pi Pup ; 2.71; 3800;occ; 126; 0;35175  
3; 1034.8; 21-NOV-2008 10:06:38; Dark ; 76.5; 23; 21Eps CMA ; 1.50; 26000;occ; 153; 0;35175  
4; 1173.6; 21-NOV-2008 10:08:57; Dark ; 86.5; 179; 240mi2CMA ; 3.03; 24000;occ; 173; 0;35175  
5; 1477.2; 21-NOV-2008 10:14:01; Dark ; 90.5; 47; 2Bet CMA ; 1.98; 28000;occ; 181; 0;35175

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2; 2011.1; 21-NOV-2008 10:22:55; Dark ; 86.0; 30; 46Eps Ori ; 1.69; 30000;occ; 172; 0;35175  
3; 2295.9; 21-NOV-2008 10:27:39; Bright; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;35175  
4; 2686.0; 21-NOV-2008 10:34:09; Bright; 51.0; 114; 3Iot Aur ; 2.69; 4600;occ; 102; 0;35175  
5; 2951.5; 21-NOV-2008 10:38:35; Bright; 52.0; 6; 13Alp Aur ; 0.08; 3400;occ; 104; 0;35175  
6; 3104.2; 21-NOV-2008 10:41:08; Bright; 57.0; 42; 34Bet Aur ; 1.90; 10200;occ; 114; 0;35175  
7; 4213.3; 21-NOV-2008 10:59:37; Bright; 46.5; 174; 52Psi UMa ; 3.00; 4400;occ; 93; 0;35175  
8; 4777.8; 21-NOV-2008 11:09:01; Bright; 52.5; 96; 68Del Leo ; 2.56; 9300;occ; 105; 0;35175  
9; 4946.1; 21-NOV-2008 11:11:50; Dark ; 99.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 199; 0;35175  
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11; 6647.3; 21-NOV-2008 11:40:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35175  
12; 6829.0; 21-NOV-2008 11:43:13; Dark ; 73.5; 117; Pi Pup ; 2.71; 3800;occ; 147; 0;35175  
13; 7071.7; 21-NOV-2008 11:47:15; Dark ; 78.5; 23; 21Eps CMA ; 1.50; 26000;occ; 157; 0;35175  
14; 7210.5; 21-NOV-2008 11:49:34; Dark ; 87.5; 179; 240mi2CMA ; 3.03; 24000;occ; 175; 0;35175  
15; 7513.3; 21-NOV-2008 11:54:37; Dark ; 86.0; 47; 2Bet CMA ; 1.98; 28000;occ; 172; 0;35175

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2; 1770.6; 21-NOV-2008 11:59:30; Dark ; 74.0; 7; 19Bet Ori ; 0.10; 14000;occ; 148; 0;35176  
3; 2010.2; 21-NOV-2008 12:03:30; Dark ; 86.0; 30; 46Eps Ori ; 1.69; 30000;occ; 172; 0;35176  
4; 2295.3; 21-NOV-2008 12:08:15; Bright; 56.5; 13; 87Alp Tau ; 0.87; 3800;occ; 113; 0;35176

5; 2685.1; 21-NOV-2008 12:14:44; Bright; 52.5; 114; 3Iot Aur ; 2.69; 4600;occ; 105; 0;35176  
6; 2950.6; 21-NOV-2008 12:19:10; Bright; 51.5; 6; 13Alp Aur ; 0.08; 3400;occ; 103; 0;35176  
7; 3103.0; 21-NOV-2008 12:21:42; Bright; 58.0; 42; 34Bet Aur ; 1.90; 10200;occ; 116; 0;35176  
8; 4213.2; 21-NOV-2008 12:40:13; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;35176  
9; 4778.5; 21-NOV-2008 12:49:38; Bright; 53.0; 96; 68Del Leo ; 2.56; 9300;occ; 106; 0;35176  
10; 4947.3; 21-NOV-2008 12:52:27; Dark ; 104.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 208; 0;35176  
11; 5297.0; 21-NOV-2008 12:58:16; Dark ; 55.0; 22; 32Alp Leo ; 1.36; 15200;occ; 110; 0;35176  
12; 6649.2; 21-NOV-2008 13:20:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35176  
13; 6830.1; 21-NOV-2008 13:23:49; Dark ; 64.0; 117; Pi Pup ; 2.71; 3800;occ; 128; 0;35176  
14; 7072.7; 21-NOV-2008 13:27:52; Dark ; 72.5; 23; 21Eps CMa ; 1.50; 26000;occ; 145; 0;35176  
15; 7211.5; 21-NOV-2008 13:30:11; Dark ; 87.0; 179; 240mi2CMa ; 3.03; 24000;occ; 174; 0;35176  
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2; 1770.4; 21-NOV-2008 13:40:06; Dark ; 70.5; 7; 19Bet Ori ; 0.10; 14000;occ; 141; 0;35177  
3; 2009.5; 21-NOV-2008 13:44:05; Dark ; 85.5; 30; 46Eps Ori ; 1.69; 30000;occ; 171; 0;35177  
4; 2294.7; 21-NOV-2008 13:48:50; Bright; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;35177  
5; 2684.1; 21-NOV-2008 13:55:19; Bright; 51.5; 114; 3Iot Aur ; 2.69; 4600;occ; 103; 0;35177  
6; 2949.8; 21-NOV-2008 13:59:45; Bright; 50.5; 6; 13Alp Aur ; 0.08; 3400;occ; 101; 0;35177  
7; 3101.9; 21-NOV-2008 14:02:17; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;35177  
8; 4213.2; 21-NOV-2008 14:20:48; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;35177  
9; 4779.0; 21-NOV-2008 14:30:14; Bright; 53.0; 96; 68Del Leo ; 2.56; 9300;occ; 106; 0;35177  
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11; 5299.5; 21-NOV-2008 14:38:55; Dark ; 55.0; 22; 32Alp Leo ; 1.36; 15200;occ; 110; 0;35177  
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13; 6600.8; 21-NOV-2008 15:00:36; Dark ; 54.5; 70; Zet Pup ; 2.25; 39000;occ; 109; 0;35177  
14; 6831.2; 21-NOV-2008 15:04:26; Dark ; 57.0; 117; Pi Pup ; 2.71; 3800;occ; 114; 0;35177  
15; 7073.6; 21-NOV-2008 15:08:29; Dark ; 76.5; 23; 21Eps CMa ; 1.50; 26000;occ; 153; 0;35177  
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2; 1770.3; 21-NOV-2008 15:20:41; Dark ; 74.5; 7; 19Bet Ori ; 0.10; 14000;occ; 149; 0;35178  
3; 2008.7; 21-NOV-2008 15:24:40; Dark ; 86.0; 30; 46Eps Ori ; 1.69; 30000;occ; 172; 0;35178  
4; 2294.2; 21-NOV-2008 15:29:25; Bright; 54.5; 13; 87Alp Tau ; 0.87; 3800;occ; 109; 0;35178  
5; 2683.2; 21-NOV-2008 15:35:54; Bright; 52.5; 114; 3Iot Aur ; 2.69; 4600;occ; 105; 0;35178  
6; 2949.0; 21-NOV-2008 15:40:20; Bright; 73.0; 6; 13Alp Aur ; 0.08; 3400;occ; 146; 0;35178  
7; 3100.6; 21-NOV-2008 15:42:52; Bright; 58.0; 42; 34Bet Aur ; 1.90; 10200;occ; 116; 0;35178  
8; 4213.0; 21-NOV-2008 16:01:24; Bright; 46.0; 174; 52Psi UMa ; 3.00; 4400;occ; 92; 0;35178  
9; 4779.5; 21-NOV-2008 16:10:51; Bright; 56.0; 96; 68Del Leo ; 2.56; 9300;occ; 112; 0;35178  
10; 4949.8; 21-NOV-2008 16:13:41; Dark ; 103.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 206; 0;35178  
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2; 1178.6; 21-NOV-2008 18:32:02; Dark ; 88.5; 179; 240mi2CMa ; 3.03; 24000;occ; 177; 0;35180  
3; 1478.4; 21-NOV-2008 18:37:02; Dark ; 87.5; 47; 2Bet CMa ; 1.98; 28000;occ; 175; 0;35180  
4; 1769.9; 21-NOV-2008 18:41:53; Dark ; 70.0; 7; 19Bet Ori ; 0.10; 14000;occ; 140; 0;35180  
5; 2007.1; 21-NOV-2008 18:45:50; Dark ; 85.0; 30; 46Eps Ori ; 1.69; 30000;occ; 170; 0;35180  
6; 2293.0; 21-NOV-2008 18:50:36; Bright; 57.0; 13; 87Alp Tau ; 0.87; 3800;occ; 114; 0;35180  
7; 2681.6; 21-NOV-2008 18:57:05; Bright; 52.0; 114; 3Iot Aur ; 2.69; 4600;occ; 104; 0;35180  
8; 2947.2; 21-NOV-2008 19:01:30; Bright; 52.5; 6; 13Alp Aur ; 0.08; 3400;occ; 105; 0;35180  
9; 3098.1; 21-NOV-2008 19:04:01; Bright; 54.5; 42; 34Bet Aur ; 1.90; 10200;occ; 109; 0;35180  
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11; 4780.5; 21-NOV-2008 19:32:04; Bright; 55.5; 96; 68Del Leo ; 2.56; 9300;occ; 111; 0;35180  
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13; 5307.3; 21-NOV-2008 19:40:51; Dark ; 37.0; 22; 32Alp Leo ; 1.36; 15200;occ; 74; 0;35180  
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15; 6604.4; 21-NOV-2008 20:02:28; Dark ; 58.0; 70; Zet Pup ; 2.25; 39000;occ; 116; 0;35180  
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3; 801.5; 22-NOV-2008 01:08:08; Dark ; 63.5; 117; Pi Pup ; 2.71; 3800;occ; 127; 0;35184  
4; 1043.7; 22-NOV-2008 01:12:11; Dark ; 72.5; 23; 21Eps CMa ; 1.50; 26000;occ; 145; 0;35184  
5; 1182.2; 22-NOV-2008 01:14:29; Dark ; 87.0; 179; 240mi2CMa ; 3.03; 24000;occ; 174; 0;35184



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8; 2003.8; 22-NOV-2008 01:28:11; Dark ; 78.5; 30; 46Eps Ori ; 1.69; 30000;occ; 157; 0;35184
9; 2290.6; 22-NOV-2008 01:32:57; Bright; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;35184
10; 2677.7; 22-NOV-2008 01:39:25; Bright; 52.0; 114; 3Iot Aur ; 2.69; 4600;occ; 104; 0;35184
11; 2943.7; 22-NOV-2008 01:43:51; Bright; 50.5; 6; 13Alp Aur ; 0.08; 3400;occ; 101; 0;35184
12; 3093.1; 22-NOV-2008 01:46:20; Bright; 57.5; 42; 34Bet Aur ; 1.90; 10200;occ; 115; 0;35184
13; 4212.1; 22-NOV-2008 02:04:59; Bright; 45.5; 174; 52Psi UMa ; 3.00; 4400;occ; 91; 0;35184
14; 4782.4; 22-NOV-2008 02:14:29; Bright; 54.5; 96; 68Del Leo ; 2.56; 9300;occ; 109; 0;35184
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5; 1044.8; 22-NOV-2008 02:52:48; Dark ; 74.5; 23; 21Eps CMA ; 1.50; 26000;occ; 149; 0;35185
6; 1183.2; 22-NOV-2008 02:55:06; Dark ; 86.0; 179; 240mi2CMA ; 3.03; 24000;occ; 172; 0;35185
7; 1479.6; 22-NOV-2008 03:00:02; Dark ; 86.0; 47; 2Bet CMA ; 1.98; 28000;occ; 172; 0;35185
8; 1768.7; 22-NOV-2008 03:04:51; Dark ; 70.0; 7; 19Bet Ori ; 0.10; 14000;occ; 140; 0;35185
9; 2003.0; 22-NOV-2008 03:08:46; Dark ; 81.0; 30; 46Eps Ori ; 1.69; 30000;occ; 162; 0;35185
10; 2289.9; 22-NOV-2008 03:13:33; Bright; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;35185
11; 2676.9; 22-NOV-2008 03:20:00; Bright; 52.0; 114; 3Iot Aur ; 2.69; 4600;occ; 104; 0;35185
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3;-1077.6; 22-NOV-2008 03:58:01; Dark ; 105.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 210; 0;35185
4; 17.9; 22-NOV-2008 04:16:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35186
5; 574.2; 22-NOV-2008 04:25:33; Dark ; 54.5; 70; Zet Pup ; 2.25; 39000;occ; 109; 0;35186
6; 803.7; 22-NOV-2008 04:29:22; Dark ; 67.5; 117; Pi Pup ; 2.71; 3800;occ; 135; 0;35186
7; 1045.6; 22-NOV-2008 04:33:24; Dark ; 73.5; 23; 21Eps CMA ; 1.50; 26000;occ; 147; 0;35186
8; 1184.3; 22-NOV-2008 04:35:43; Dark ; 89.0; 179; 240mi2CMA ; 3.03; 24000;occ; 178; 0;35186
9; 1479.8; 22-NOV-2008 04:40:39; Dark ; 87.0; 47; 2Bet CMA ; 1.98; 28000;occ; 174; 0;35186
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12; 2289.3; 22-NOV-2008 04:54:08; Bright; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;35186
13; 2676.0; 22-NOV-2008 05:00:35; Bright; 50.5; 114; 3Iot Aur ; 2.69; 4600;occ; 101; 0;35186
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3;-1076.3; 22-NOV-2008 05:38:38; Dark ; 100.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 200; 0;35186
4; 20.2; 22-NOV-2008 05:56:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35187
5; 575.4; 22-NOV-2008 06:06:10; Dark ; 54.0; 70; Zet Pup ; 2.25; 39000;occ; 108; 0;35187
6; 804.6; 22-NOV-2008 06:09:59; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;35187
7; 1046.5; 22-NOV-2008 06:14:01; Dark ; 74.0; 23; 21Eps CMA ; 1.50; 26000;occ; 148; 0;35187
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3; 844.9; 25-NOV-2008 01:14:37; Dark ; 60.0; 117; Pi Pup ; 2.71; 3800;occ; 120; 0;35227
4; 1083.2; 25-NOV-2008 01:18:35; Dark ; 75.0; 23; 21Eps CMa ; 1.50; 26000;occ; 150; 0;35227
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6; 1519.5; 25-NOV-2008 01:25:52; Dark ; 106.0; 1; 9Alp CMa ; -1.44; 11000;occ; 212; 0;35227
7; 1761.6; 25-NOV-2008 01:29:54; Dark ; 65.5; 7; 19Bet Ori ; 0.10; 14000;occ; 131; 0;35227
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9; 2266.7; 25-NOV-2008 01:38:19; Bright; 54.5; 13; 87Alp Tau ; 0.87; 3800;occ; 109; 0;35227
10; 2641.3; 25-NOV-2008 01:44:33; Bright; 49.0; 114; 3Iot Aur ; 2.69; 4600;occ; 98; 0;35227
11; 2907.6; 25-NOV-2008 01:49:00; Bright; 49.0; 6; 13Alp Aur ; 0.08; 3400;occ; 98; 0;35227
12; 3042.9; 25-NOV-2008 01:51:15; Bright; 52.5; 42; 34Bet Aur ; 1.90; 10200;occ; 105; 0;35227
13; 4205.2; 25-NOV-2008 02:10:37; Bright; 48.0; 174; 52Psi UMa ; 3.00; 4400;occ; 96; 0;35227
14; 4806.1; 25-NOV-2008 02:20:38; Bright; 56.0; 96; 68Del Leo ; 2.56; 9300;occ; 112; 0;35227
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10; 2149.9; 25-NOV-2008 03:16:58; Dark ; 74.5; 27; 24Gam Ori ; 1.64; 26000;occ; 149; 0;35228
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12; 2640.7; 25-NOV-2008 03:25:09; Bright; 50.0; 114; 3Iot Aur ; 2.69; 4600;occ; 100; 0;35228
13; 2906.9; 25-NOV-2008 03:29:35; Bright; 55.5; 6; 13Alp Aur ; 0.08; 3400;occ; 111; 0;35228
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2; -1229.1; 25-NOV-2008 04:01:15; Bright; 59.0; 96; 68Del Leo ; 2.56; 9300;occ; 118; 0;35228
3; -1015.4; 25-NOV-2008 04:04:49; Dark ; 64.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 128; 0;35228
4; 123.8; 25-NOV-2008 04:23:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35229
5; 624.0; 25-NOV-2008 04:32:08; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;35229
6; 847.0; 25-NOV-2008 04:35:51; Dark ; 64.5; 117; Pi Pup ; 2.71; 3800;occ; 129; 0;35229
7; 1085.0; 25-NOV-2008 04:39:49; Dark ; 73.0; 23; 21Eps CMa ; 1.50; 26000;occ; 146; 0;35229
8; 1220.9; 25-NOV-2008 04:42:05; Dark ; 80.0; 179; 240mi2CMa ; 3.03; 24000;occ; 160; 0;35229
9; 1520.0; 25-NOV-2008 04:47:04; Dark ; 110.0; 1; 9Alp CMa ; -1.44; 11000;occ; 220; 0;35229
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15; 2906.1; 25-NOV-2008 05:10:10; Bright; 50.0; 6; 13Alp Aur ; 0.08; 3400;occ; 100; 0;35229
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 6; 847.9; 25-NOV-2008 06:16:28; Dark ; 63.0; 117; Pi Pup ; 2.71; 3800;occ; 126; 0;35230
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 8; 1221.8; 25-NOV-2008 06:22:42; Dark ; 83.0; 179; 240mi2CMa ; 3.03; 24000;occ; 166; 0;35230
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 4; 129.0; 25-NOV-2008 07:45:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35231
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 7; 1086.7; 25-NOV-2008 08:01:03; Dark ; 68.5; 23; 21Eps CMa ; 1.50; 26000;occ; 137; 0;35231
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 4; 2264.9; 25-NOV-2008 08:20:41; Bright; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;35231
 5; 2638.2; 25-NOV-2008 08:26:54; Bright; 48.5; 114; 3Iot Aur ; 2.69; 4600;occ; 97; 0;35231
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 7; 3038.4; 25-NOV-2008 08:33:34; Bright; 54.5; 42; 34Bet Aur ; 1.90; 10200;occ; 109; 0;35231
 8; 4204.4; 25-NOV-2008 08:53:00; Bright; 49.0; 174; 52Psi UMa ; 3.00; 4400;occ; 98; 0;35231
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12; 6663.1; 25-NOV-2008 09:33:59; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;35231
13; 6885.7; 25-NOV-2008 09:37:42; Dark ; 58.5; 117; Pi Pup ; 2.71; 3800;occ; 117; 0;35231
14; 7123.4; 25-NOV-2008 09:41:39; Dark ; 73.5; 23; 21Eps CMa ; 1.50; 26000;occ; 147; 0;35231
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 3; 2146.6; 25-NOV-2008 09:59:18; Dark ; 67.0; 27; 24Gam Ori ; 1.64; 26000;occ; 134; 0;35232
 4; 2264.4; 25-NOV-2008 10:01:16; Bright; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;35232
 5; 2637.5; 25-NOV-2008 10:07:29; Bright; 50.0; 114; 3Iot Aur ; 2.69; 4600;occ; 100; 0;35232
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 8; 4204.2; 25-NOV-2008 10:33:36; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;35232
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13; 6886.6; 25-NOV-2008 11:18:19; Dark ; 60.5; 117; Pi Pup ; 2.71; 3800;occ; 121; 0;35232
14; 7124.4; 25-NOV-2008 11:22:16; Dark ; 69.0; 23; 21Eps CMa ; 1.50; 26000;occ; 138; 0;35232
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16; 7556.3; 25-NOV-2008 11:29:28; Dark ; 115.5; 1; 9Alp CMa ; -1.44; 11000;occ; 231; 0;35232

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 13; 3028.4; 25-NOV-2008 23:38:48; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;35240  
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9; 4203.9; 25-NOV-2008 15:35:24; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;35235
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9; 2899.8; 25-NOV-2008 18:34:51; Bright; 51.0; 6; 13Alp Aur ; 0.08; 3400;occ; 102; 0;35237
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3; 858.3; 26-NOV-2008 00:43:14; Dark ; 60.0; 117; Pi Pup ; 2.71; 3800;occ; 120; 0;35241
4; 1095.2; 26-NOV-2008 00:47:10; Dark ; 66.0; 23; 21Eps CMa ; 1.50; 26000;occ; 132; 0;35241
5; 1230.0; 26-NOV-2008 00:49:25; Dark ; 75.5; 179; 240mi2CMa ; 3.03; 24000;occ; 151; 0;35241
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8; 1965.7; 26-NOV-2008 01:01:41; Dark ; 68.0; 30; 46Eps Ori ; 1.69; 30000;occ; 136; 0;35241
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13; 3027.3; 26-NOV-2008 01:19:23; Bright; 52.5; 42; 34Bet Aur ; 1.90; 10200;occ; 105; 0;35241
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4; 1096.0; 26-NOV-2008 02:27:47; Dark ; 67.5; 23; 21Eps CMa ; 1.50; 26000;occ; 135; 0;35242
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11; 2629.9; 26-NOV-2008 02:53:21; Bright; 50.5; 114; 3Iot Aur ; 2.69; 4600;occ; 101; 0;35242
12; 2896.0; 26-NOV-2008 02:57:47; Bright; 60.0; 6; 13Alp Aur ; 0.08; 3400;occ; 120; 0;35242
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6; 1097.8; 26-NOV-2008 05:49:01; Dark ; 68.5; 23; 21Eps CMA ; 1.50; 26000;occ; 137; 0;35244
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9; 2888.3; 26-NOV-2008 19:43:39; Bright; 50.0; 6; 13Alp Aur ; 0.08; 3400;occ; 100; 0;35252
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7; 1242.8; 27-NOV-2008 05:19:49; Dark ; 76.5; 179; 240mi2CMA ; 3.03; 24000;occ; 153; 0;35258
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4; 1117.9; 27-NOV-2008 23:44:19; Dark ; 68.5; 23; 21Eps CMA ; 1.50; 26000;occ; 137; 0;35269
5; 1250.3; 27-NOV-2008 23:46:32; Dark ; 77.5; 179; 240mi2CMA ; 3.03; 24000;occ; 155; 0;35269
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5; 875.3; 27-NOV-2008 06:54:18; Dark ; 63.5; 117; Pi Pup ; 2.71; 3800;occ; 127; 0;35259
6; 1110.1; 27-NOV-2008 06:58:12; Dark ; 66.0; 23; 21Eps CMA ; 1.50; 26000;occ; 132; 0;35259
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8; 4199.0; 27-NOV-2008 07:49:41; Bright; 50.5; 174; 52Psi UMa ; 3.00; 4400;occ; 101; 0;35259
9; 4826.5; 27-NOV-2008 08:00:09; Bright; 63.5; 96; 68Del Leo ; 2.56; 9300;occ; 127; 0;35259
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13; 7146.9; 27-NOV-2008 08:38:49; Dark ; 69.5; 23; 21Eps CMA ; 1.50; 26000;occ; 139; 0;35259
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6; 2872.1; 28-NOV-2008 08:36:33; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;35274
7; 2992.4; 28-NOV-2008 08:38:34; Bright; 51.5; 42; 34Bet Aur ; 1.90; 10200;occ; 103; 0;35274
8; 4195.9; 28-NOV-2008 08:58:37; Bright; 51.0; 174; 52Psi UMA ; 3.00; 4400;occ; 102; 0;35274
9; 4836.6; 28-NOV-2008 09:09:18; Bright; 67.5; 96; 68Del Leo ; 2.56; 9300;occ; 135; 0;35274
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13; 7158.4; 28-NOV-2008 09:48:00; Dark ; 68.5; 23; 21Eps CMA ; 1.50; 26000;occ; 137; 0;35274
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3; 700.6; 30-NOV-2008 01:55:20; Dark ; 56.0; 70; Zet Pup ; 2.25; 39000;occ; 112; 0;35299
4; 911.0; 30-NOV-2008 01:58:50; Dark ; 59.5; 117; Pi Pup ; 2.71; 3800;occ; 119; 0;35299
5; 1056.4; 30-NOV-2008 02:01:16; Dark ; 35.0; 88; 31Eta CMA ; 2.45; 20000;occ; 70; 0;35299
6; 1140.3; 30-NOV-2008 02:02:40; Dark ; 64.5; 23; 21Eps CMA ; 1.50; 26000;occ; 129; 0;35299
7; 1534.5; 30-NOV-2008 02:09:14; Dark ; 54.0; 101; 11Alp Lep ; 2.58; 7000;occ; 108; 0;35299
8; 1753.5; 30-NOV-2008 02:12:53; Dark ; 57.0; 7; 19Bet Ori ; 0.10; 14000;occ; 114; 0;35299
9; 1937.5; 30-NOV-2008 02:15:57; Dark ; 64.0; 30; 46Eps Ori ; 1.69; 30000;occ; 128; 0;35299
10; 2102.2; 30-NOV-2008 02:18:42; Dark ; 63.5; 27; 24Gam Ori ; 1.64; 26000;occ; 127; 0;35299
11; 2235.8; 30-NOV-2008 02:20:55; Bright; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;35299
12; 2473.2; 30-NOV-2008 02:24:53; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;35299
13; 2619.1; 30-NOV-2008 02:27:19; Bright; 38.0; 149; 45Eps Per ; 2.89; 30000;occ; 76; 0;35299
14; 2854.8; 30-NOV-2008 02:31:14; Bright; 48.0; 6; 13Alp Aur ; 0.08; 3400;occ; 96; 0;35299
15; 2967.3; 30-NOV-2008 02:33:07; Bright; 50.5; 42; 34Bet Aur ; 1.90; 10200;occ; 101; 0;35299
16; 3824.7; 30-NOV-2008 02:47:24; Bright; 44.0; 36; 50Alp UMA ; 1.80; 6300;occ; 88; 0;35299
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2; -2114.7; 30-NOV-2008 02:49:01; Bright; 44.0; 82; 48Bet UMA ; 2.37; 10600;occ; 88; 0;35299
3; -2020.3; 30-NOV-2008 02:50:35; Bright; 38.0; 32; 77Eps UMA ; 1.76; 11000;occ; 76; 0;35299
4; -1845.9; 30-NOV-2008 02:53:30; Bright; 51.0; 174; 52Psi UMA ; 3.00; 4400;occ; 102; 0;35299
5; -1688.5; 30-NOV-2008 02:56:07; Bright; 38.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 77; 0;35299
6; -1119.6; 30-NOV-2008 03:05:36; Bright; 56.0; 62; 94Bet Leo ; 2.14; 9700;occ; 112; 0;35299
7; -920.9; 30-NOV-2008 03:08:55; Bright; 42.0; 121; 29Gam Vir ; 2.74; 7200;occ; 84; 0;35299

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9; -487.6; 30-NOV-2008 03:16:08; Dark ; 47.0; 171; 2Eps Crv ; 3.00; 4250;occ; 94; 0;35299  
10; 399.6; 30-NOV-2008 03:30:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35300  
11; 597.7; 30-NOV-2008 03:34:13; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;35300  
12; 701.8; 30-NOV-2008 03:35:57; Dark ; 54.5; 70; Zet Pup ; 2.25; 39000;occ; 109; 0;35300  
13; 911.8; 30-NOV-2008 03:39:27; Dark ; 60.5; 117; Pi Pup ; 2.71; 3800;occ; 121; 0;35300  
14; 1057.3; 30-NOV-2008 03:41:53; Dark ; 37.0; 88; 31Eta CMa ; 2.45; 20000;occ; 74; 0;35300  
15; 1141.1; 30-NOV-2008 03:43:17; Dark ; 68.5; 23; 21Eps CMa ; 1.50; 26000;occ; 137; 0;35300  
16; 1534.9; 30-NOV-2008 03:49:50; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;35300  
17; 1753.4; 30-NOV-2008 03:53:29; Dark ; 58.0; 7; 19Bet Ori ; 0.10; 14000;occ; 116; 0;35300  
18; 1937.3; 30-NOV-2008 03:56:33; Dark ; 63.0; 30; 46Eps Ori ; 1.69; 30000;occ; 126; 0;35300  
19; 2101.7; 30-NOV-2008 03:59:17; Dark ; 64.0; 27; 24Gam Ori ; 1.64; 26000;occ; 128; 0;35300  
20; 2235.5; 30-NOV-2008 04:01:31; Bright; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;35300  
21; 2473.0; 30-NOV-2008 04:05:28; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;35300  
22; 2619.1; 30-NOV-2008 04:07:55; Bright; 38.5; 149; 45Eps Per ; 2.89; 30000;occ; 77; 0;35300  
23; 2854.1; 30-NOV-2008 04:11:50; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;35300  
24; 2966.4; 30-NOV-2008 04:13:42; Bright; 49.0; 42; 34Bet Aur ; 1.90; 10200;occ; 98; 0;35300

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2;-2115.6; 30-NOV-2008 06:10:12; Bright; 43.0; 82; 48Bet UMA ; 2.37; 10600;occ; 86; 0;35301  
3;-2020.5; 30-NOV-2008 06:11:47; Bright; 36.5; 32; 77Eps UMA ; 1.76; 11000;occ; 73; 0;35301  
4;-1846.4; 30-NOV-2008 06:14:41; Bright; 52.0; 174; 52Psi UMA ; 3.00; 4400;occ; 104; 0;35301  
5;-1688.3; 30-NOV-2008 06:17:19; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;35301  
6;-1118.2; 30-NOV-2008 06:26:49; Bright; 55.5; 62; 94Bet Leo ; 2.14; 9700;occ; 111; 0;35301  
7; -919.8; 30-NOV-2008 06:30:08; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;35301  
8; -581.4; 30-NOV-2008 06:35:46; Dark ; 46.5; 100; 4Gam Crv ; 2.58; 13100;occ; 93; 0;35301  
9; -486.0; 30-NOV-2008 06:37:21; Dark ; 48.5; 171; 2Eps Crv ; 3.00; 4250;occ; 97; 0;35301  
10; 401.2; 30-NOV-2008 06:52:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35302  
11; 599.4; 30-NOV-2008 06:55:27; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;35302  
12; 703.8; 30-NOV-2008 06:57:11; Dark ; 55.0; 70; Zet Pup ; 2.25; 39000;occ; 110; 0;35302  
13; 913.5; 30-NOV-2008 07:00:41; Dark ; 59.5; 117; Pi Pup ; 2.71; 3800;occ; 119; 0;35302  
14; 1059.3; 30-NOV-2008 07:03:07; Dark ; 40.0; 88; 31Eta CMa ; 2.45; 20000;occ; 80; 0;35302  
15; 1142.5; 30-NOV-2008 07:04:30; Dark ; 61.5; 23; 21Eps CMa ; 1.50; 26000;occ; 123; 0;35302  
16; 1535.1; 30-NOV-2008 07:11:02; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;35302

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2; 1936.5; 30-NOV-2008 07:17:44; Dark ; 65.0; 30; 46Eps Ori ; 1.69; 30000;occ; 130; 0;35302  
3; 2100.7; 30-NOV-2008 07:20:28; Dark ; 60.5; 27; 24Gam Ori ; 1.64; 26000;occ; 121; 0;35302  
4; 2234.8; 30-NOV-2008 07:22:42; Bright; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;35302  
5; 2472.6; 30-NOV-2008 07:26:40; Bright; 37.0; 150; 44Zet Per ; 2.89; 28000;occ; 74; 0;35302  
6; 2618.6; 30-NOV-2008 07:29:06; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;35302  
7; 2852.8; 30-NOV-2008 07:33:00; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;35302  
8; 2964.4; 30-NOV-2008 07:34:52; Bright; 76.0; 42; 34Bet Aur ; 1.90; 10200;occ; 152; 0;35302  
9; 3823.7; 30-NOV-2008 07:49:11; Bright; 45.0; 36; 50Alp UMA ; 1.80; 6300;occ; 90; 0;35302  
10; 3920.0; 30-NOV-2008 07:50:47; Bright; 44.5; 82; 48Bet UMA ; 2.37; 10600;occ; 89; 0;35302  
11; 4015.4; 30-NOV-2008 07:52:23; Bright; 38.5; 32; 77Eps UMA ; 1.76; 11000;occ; 77; 0;35302  
12; 4189.4; 30-NOV-2008 07:55:17; Bright; 63.5; 174; 52Psi UMA ; 3.00; 4400;occ; 127; 0;35302  
13; 4347.7; 30-NOV-2008 07:57:55; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;35302  
14; 4918.3; 30-NOV-2008 08:07:26; Bright; 56.5; 62; 94Bet Leo ; 2.14; 9700;occ; 113; 0;35302  
15; 5116.6; 30-NOV-2008 08:10:44; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;35302  
16; 5455.4; 30-NOV-2008 08:16:23; Dark ; 44.5; 100; 4Gam Crv ; 2.58; 13100;occ; 89; 0;35302  
17; 5550.8; 30-NOV-2008 08:17:58; Dark ; 49.0; 171; 2Eps Crv ; 3.00; 4250;occ; 98; 0;35302  
18; 6438.0; 30-NOV-2008 08:32:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35302  
19; 6636.3; 30-NOV-2008 08:36:04; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;35302  
20; 6740.8; 30-NOV-2008 08:37:48; Dark ; 54.5; 70; Zet Pup ; 2.25; 39000;occ; 109; 0;35302  
21; 6950.3; 30-NOV-2008 08:41:18; Dark ; 60.0; 117; Pi Pup ; 2.71; 3800;occ; 120; 0;35302  
22; 7096.1; 30-NOV-2008 08:43:44; Dark ; 40.0; 88; 31Eta CMa ; 2.45; 20000;occ; 80; 0;35302  
23; 7179.1; 30-NOV-2008 08:45:07; Dark ; 66.0; 23; 21Eps CMa ; 1.50; 26000;occ; 132; 0;35302  
24; 7571.1; 30-NOV-2008 08:51:39; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;35302  
25; 7788.9; 30-NOV-2008 08:55:16; Dark ; 15.0; 7; 19Bet Ori ; 0.10; 14000;occ; 30; 0;35302

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2; 1936.0; 30-NOV-2008 08:58:19; Dark ; 62.5; 30; 46Eps Ori ; 1.69; 30000;occ; 125; 0;35303  
3; 2100.0; 30-NOV-2008 09:01:03; Dark ; 61.0; 27; 24Gam Ori ; 1.64; 26000;occ; 122; 0;35303  
4; 2234.5; 30-NOV-2008 09:03:18; Bright; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;35303  
5; 2472.2; 30-NOV-2008 09:07:16; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;35303  
6; 2618.1; 30-NOV-2008 09:09:41; Bright; 38.0; 149; 45Eps Per ; 2.89; 30000;occ; 76; 0;35303  
7; 2852.2; 30-NOV-2008 09:13:36; Bright; 49.0; 6; 13Alp Aur ; 0.08; 3400;occ; 98; 0;35303

8; 2963.4; 30-NOV-2008 09:15:27; Bright; 51.0; 42; 34Bet Aur ; 1.90; 10200;occ; 102; 0;35303  
9; 3823.3; 30-NOV-2008 09:29:47; Bright; 47.5; 36; 50Alp UMa ; 1.80; 6300;occ; 95; 0;35303  
10; 3919.8; 30-NOV-2008 09:31:23; Bright; 47.0; 82; 48Bet UMa ; 2.37; 10600;occ; 94; 0;35303  
11; 4015.3; 30-NOV-2008 09:32:59; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;35303  
12; 4189.1; 30-NOV-2008 09:35:52; Bright; 50.5; 174; 52Psi UMa ; 3.00; 4400;occ; 101; 0;35303  
13; 4347.9; 30-NOV-2008 09:38:31; Bright; 39.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 78; 0;35303  
14; 4919.1; 30-NOV-2008 09:48:02; Bright; 57.0; 62; 94Bet Leo ; 2.14; 9700;occ; 114; 0;35303  
15; 5117.3; 30-NOV-2008 09:51:21; Bright; 43.5; 121; 29Gam Vir ; 2.74; 7200;occ; 87; 0;35303  
16; 5456.0; 30-NOV-2008 09:56:59; Dark ; 47.0; 100; 4Gam Crv ; 2.58; 13100;occ; 94; 0;35303  
17; 5551.6; 30-NOV-2008 09:58:35; Dark ; 46.5; 171; 2Eps Crv ; 3.00; 4250;occ; 93; 0;35303  
18; 6438.8; 30-NOV-2008 10:13:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35303  
19; 6637.1; 30-NOV-2008 10:16:40; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;35303  
20; 6741.8; 30-NOV-2008 10:18:25; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;35303  
21; 6951.2; 30-NOV-2008 10:21:55; Dark ; 63.5; 117; Pi Pup ; 2.71; 3800;occ; 127; 0;35303  
22; 7096.9; 30-NOV-2008 10:24:20; Dark ; 42.0; 88; 31Eta CMA ; 2.45; 20000;occ; 84; 0;35303  
23; 7179.8; 30-NOV-2008 10:25:43; Dark ; 64.5; 23; 21Eps CMA ; 1.50; 26000;occ; 129; 0;35303  
24; 7571.2; 30-NOV-2008 10:32:15; Dark ; 55.0; 101; 11Alp Lep ; 2.58; 7000;occ; 110; 0;35303  
25; 7788.8; 30-NOV-2008 10:35:52; Dark ; 3.0; 7; 19Bet Ori ; 0.10; 14000;occ; 6; 0;35303

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3; 2099.5; 30-NOV-2008 10:41:39; Dark ; 60.0; 27; 24Gam Ori ; 1.64; 26000;occ; 120; 0;35304  
4; 2234.1; 30-NOV-2008 10:43:53; Bright; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;35304  
5; 2472.1; 30-NOV-2008 10:47:51; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;35304  
6; 2617.9; 30-NOV-2008 10:50:17; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;35304  
7; 2851.5; 30-NOV-2008 10:54:11; Bright; 46.5; 6; 13Alp Aur ; 0.08; 3400;occ; 93; 0;35304  
8; 2962.5; 30-NOV-2008 10:56:02; Bright; 50.0; 42; 34Bet Aur ; 1.90; 10200;occ; 100; 0;35304  
9; 3822.9; 30-NOV-2008 11:10:22; Bright; 43.5; 36; 50Alp UMa ; 1.80; 6300;occ; 87; 0;35304  
10; 3919.4; 30-NOV-2008 11:11:59; Bright; 47.5; 82; 48Bet UMa ; 2.37; 10600;occ; 95; 0;35304  
11; 4015.2; 30-NOV-2008 11:13:34; Bright; 39.5; 32; 77Eps UMa ; 1.76; 11000;occ; 79; 0;35304  
12; 4188.8; 30-NOV-2008 11:16:28; Bright; 55.0; 174; 52Psi UMa ; 3.00; 4400;occ; 110; 0;35304  
13; 4347.9; 30-NOV-2008 11:19:07; Bright; 39.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 79; 0;35304  
14; 4919.7; 30-NOV-2008 11:28:39; Bright; 58.0; 62; 94Bet Leo ; 2.14; 9700;occ; 116; 0;35304  
15; 5117.9; 30-NOV-2008 11:31:57; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;35304  
16; 5456.8; 30-NOV-2008 11:37:36; Dark ; 45.5; 100; 4Gam Crv ; 2.58; 13100;occ; 91; 0;35304  
17; 5552.4; 30-NOV-2008 11:39:12; Dark ; 45.0; 171; 2Eps Crv ; 3.00; 4250;occ; 90; 0;35304  
18; 6439.6; 30-NOV-2008 11:53:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35304  
19; 6638.0; 30-NOV-2008 11:57:17; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;35304  
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21; 6952.0; 30-NOV-2008 12:02:31; Dark ; 65.0; 117; Pi Pup ; 2.71; 3800;occ; 130; 0;35304  
22; 7097.7; 30-NOV-2008 12:04:57; Dark ; 42.0; 88; 31Eta CMA ; 2.45; 20000;occ; 84; 0;35304  
23; 7180.5; 30-NOV-2008 12:06:20; Dark ; 68.5; 23; 21Eps CMA ; 1.50; 26000;occ; 137; 0;35304

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3; 1935.2; 30-NOV-2008 12:19:30; Dark ; 57.5; 30; 46Eps Ori ; 1.69; 30000;occ; 115; 0;35305  
4; 2099.0; 30-NOV-2008 12:22:14; Dark ; 60.0; 27; 24Gam Ori ; 1.64; 26000;occ; 120; 0;35305  
5; 2233.8; 30-NOV-2008 12:24:29; Bright; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;35305  
6; 2471.8; 30-NOV-2008 12:28:27; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;35305  
7; 2617.7; 30-NOV-2008 12:30:53; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0;35305  
8; 2850.8; 30-NOV-2008 12:34:46; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;35305  
9; 2961.5; 30-NOV-2008 12:36:37; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;35305  
10; 3822.6; 30-NOV-2008 12:50:58; Bright; 45.0; 36; 50Alp UMa ; 1.80; 6300;occ; 90; 0;35305  
11; 3919.0; 30-NOV-2008 12:52:34; Bright; 46.0; 82; 48Bet UMa ; 2.37; 10600;occ; 92; 0;35305  
12; 4015.1; 30-NOV-2008 12:54:10; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;35305  
13; 4188.7; 30-NOV-2008 12:57:04; Bright; 51.5; 174; 52Psi UMa ; 3.00; 4400;occ; 103; 0;35305  
14; 4348.1; 30-NOV-2008 12:59:43; Bright; 39.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 78; 0;35305  
15; 4920.4; 30-NOV-2008 13:09:16; Bright; 56.5; 62; 94Bet Leo ; 2.14; 9700;occ; 113; 0;35305  
16; 5118.4; 30-NOV-2008 13:12:34; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;35305  
17; 5457.7; 30-NOV-2008 13:18:13; Dark ; 46.0; 100; 4Gam Crv ; 2.58; 13100;occ; 92; 0;35305  
18; 5553.2; 30-NOV-2008 13:19:48; Dark ; 51.5; 171; 2Eps Crv ; 3.00; 4250;occ; 103; 0;35305  
19; 6440.5; 30-NOV-2008 13:34:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35305  
20; 6638.8; 30-NOV-2008 13:37:54; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;35305  
21; 6743.8; 30-NOV-2008 13:39:39; Dark ; 54.5; 70; Zet Pup ; 2.25; 39000;occ; 109; 0;35305  
22; 6952.9; 30-NOV-2008 13:43:08; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;35305  
23; 7098.8; 30-NOV-2008 13:45:34; Dark ; 44.0; 88; 31Eta CMA ; 2.45; 20000;occ; 88; 0;35305  
24; 7181.3; 30-NOV-2008 13:46:56; Dark ; 66.5; 23; 21Eps CMA ; 1.50; 26000;occ; 133; 0;35305  
25; 7571.6; 30-NOV-2008 13:53:27; Dark ; 8.5; 101; 11Alp Lep ; 2.58; 7000;occ; 17; 0;35305

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 21; 6745.0; 30-NOV-2008 15:20:16; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;35306  
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 10; 3822.1; 30-NOV-2008 16:12:09; Bright; 46.0; 36; 50Alp UMa ; 1.80; 6300;occ; 92; 0;35307  
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 12; 4015.0; 30-NOV-2008 16:15:22; Bright; 39.0; 32; 77Eps UMa ; 1.76; 11000;occ; 78; 0;35307  
 13; 4188.1; 30-NOV-2008 16:18:15; Bright; 49.5; 174; 52Psi UMa ; 3.00; 4400;occ; 99; 0;35307  
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 18; 5555.0; 30-NOV-2008 16:41:02; Dark ; 47.0; 171; 2Eps Crv ; 3.00; 4250;occ; 94; 0;35307  
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 11; 2958.8; 30-NOV-2008 17:38:22; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;35308  
 12; 3821.8; 30-NOV-2008 17:52:45; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;35308  
 13; 3917.8; 30-NOV-2008 17:54:21; Bright; 46.5; 82; 48Bet UMa ; 2.37; 10600;occ; 93; 0;35308  
 14; 4014.9; 30-NOV-2008 17:55:58; Bright; 37.0; 32; 77Eps UMa ; 1.76; 11000;occ; 74; 0;35308  
 15; 4187.8; 30-NOV-2008 17:58:51; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;35308  
 16; 4348.3; 30-NOV-2008 18:01:31; Bright; 39.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 79; 0;35308  
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