

# GOMOS Daily Report 11-JUL-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	13JUL2008 05:32:02
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (11JUL2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (12JUL2008 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)

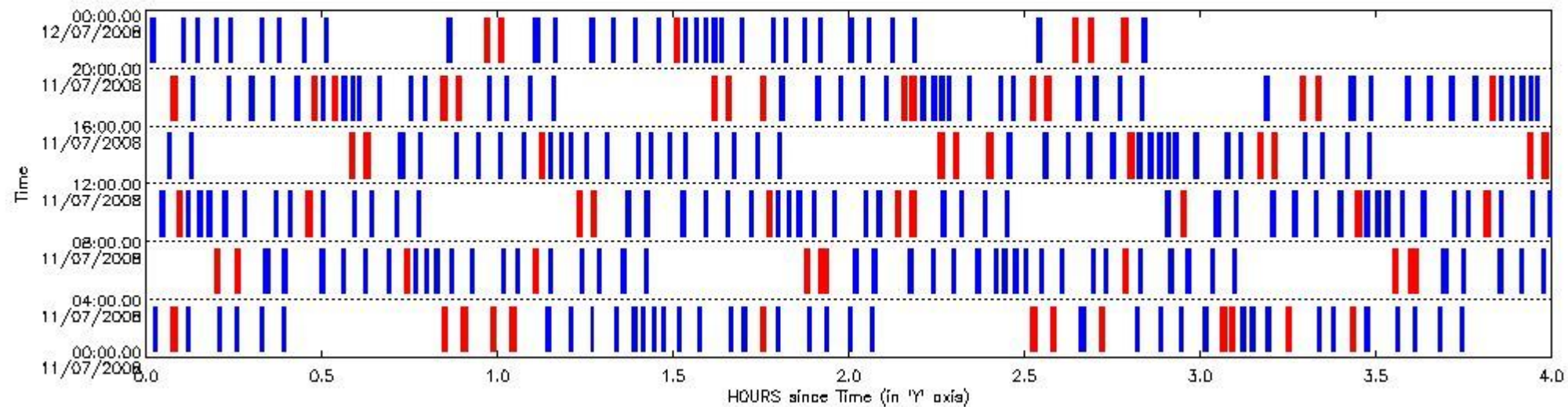
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
11-JUL-2008 00:04:17	27BetHer	127	33265
11-JUL-2008 00:50:28	19BetOri	7	33265
11-JUL-2008 00:53:51	9BetLep	139	33265
11-JUL-2008 00:58:43	DSA1061	0	33265
11-JUL-2008 01:02:03	The1Eri	157	33265
11-JUL-2008 01:44:54	27BetHer	127	33266
11-JUL-2008 02:31:04	19BetOri	7	33266
11-JUL-2008 02:34:27	9BetLep	139	33266
11-JUL-2008 02:42:39	The1Eri	157	33266
11-JUL-2008 03:03:30	BetAra	141	33267
11-JUL-2008 03:05:01	AlpAra	147	33267
11-JUL-2008 03:14:42	35EtaOph	86	33267
11-JUL-2008 03:25:30	27BetHer	127	33267
11-JUL-2008 04:11:40	19BetOri	7	33267
11-JUL-2008 04:15:03	9BetLep	139	33267

11-JUL-2008 04:44:06	BetAra	141	33268
11-JUL-2008 05:06:06	27BetHer	127	33268
11-JUL-2008 05:52:16	19BetOri	7	33268
11-JUL-2008 05:54:49	11AlpLep	101	33268
11-JUL-2008 05:55:39	9BetLep	139	33268
11-JUL-2008 06:46:42	27BetHer	127	33269
11-JUL-2008 07:32:52	19BetOri	7	33269
11-JUL-2008 07:35:25	11AlpLep	101	33269
11-JUL-2008 07:36:15	9BetLep	139	33269
11-JUL-2008 08:05:18	BetAra	141	33270
11-JUL-2008 08:27:19	27BetHer	127	33270
11-JUL-2008 09:13:28	19BetOri	7	33270
11-JUL-2008 09:16:01	11AlpLep	101	33270
11-JUL-2008 09:45:54	BetAra	141	33271
11-JUL-2008 10:07:55	27BetHer	127	33271
11-JUL-2008 10:10:28	40ZetHer	133	33271
11-JUL-2008 10:56:37	11AlpLep	101	33271
11-JUL-2008 11:26:30	BetAra	141	33272
11-JUL-2008 11:48:31	27BetHer	127	33272
11-JUL-2008 12:34:41	19BetOri	7	33272
11-JUL-2008 12:37:13	11AlpLep	101	33272
11-JUL-2008 13:07:06	BetAra	141	33273
11-JUL-2008 14:15:17	19BetOri	7	33273
11-JUL-2008 14:17:49	11AlpLep	101	33273
11-JUL-2008 14:23:33	DSA1061	0	33273
11-JUL-2008 14:47:42	BetAra	141	33274
11-JUL-2008 15:09:44	27BetHer	127	33274
11-JUL-2008 15:12:17	40ZetHer	133	33274
11-JUL-2008 15:55:53	19BetOri	7	33274
11-JUL-2008 15:58:25	11AlpLep	101	33274
11-JUL-2008 16:04:10	DSA1061	0	33274
11-JUL-2008 16:28:18	BetAra	141	33275
11-JUL-2008 16:31:41	TheSco	40	33275
11-JUL-2008 16:50:20	27BetHer	127	33275
11-JUL-2008 16:52:53	40ZetHer	133	33275
11-JUL-2008 17:36:29	19BetOri	7	33275
11-JUL-2008 17:39:01	11AlpLep	101	33275
11-JUL-2008 17:44:46	DSA1061	0	33275
11-JUL-2008 18:08:54	BetAra	141	33276
11-JUL-2008 18:10:26	AlpAra	147	33276
11-JUL-2008 18:30:56	27BetHer	127	33276
11-JUL-2008 18:33:29	40ZetHer	133	33276
11-JUL-2008 19:17:05	19BetOri	7	33276
11-JUL-2008 19:19:37	11AlpLep	101	33276
11-JUL-2008 19:49:30	BetAra	141	33277
11-JUL-2008 20:57:41	19BetOri	7	33277
11-JUL-2008 21:00:13	11AlpLep	101	33277
11-JUL-2008 21:30:06	BetAra	141	33278
11-JUL-2008 22:38:17	19BetOri	7	33278
11-JUL-2008 22:40:49	11AlpLep	101	33278
11-JUL-2008 22:46:35	DSA1061	0	33278

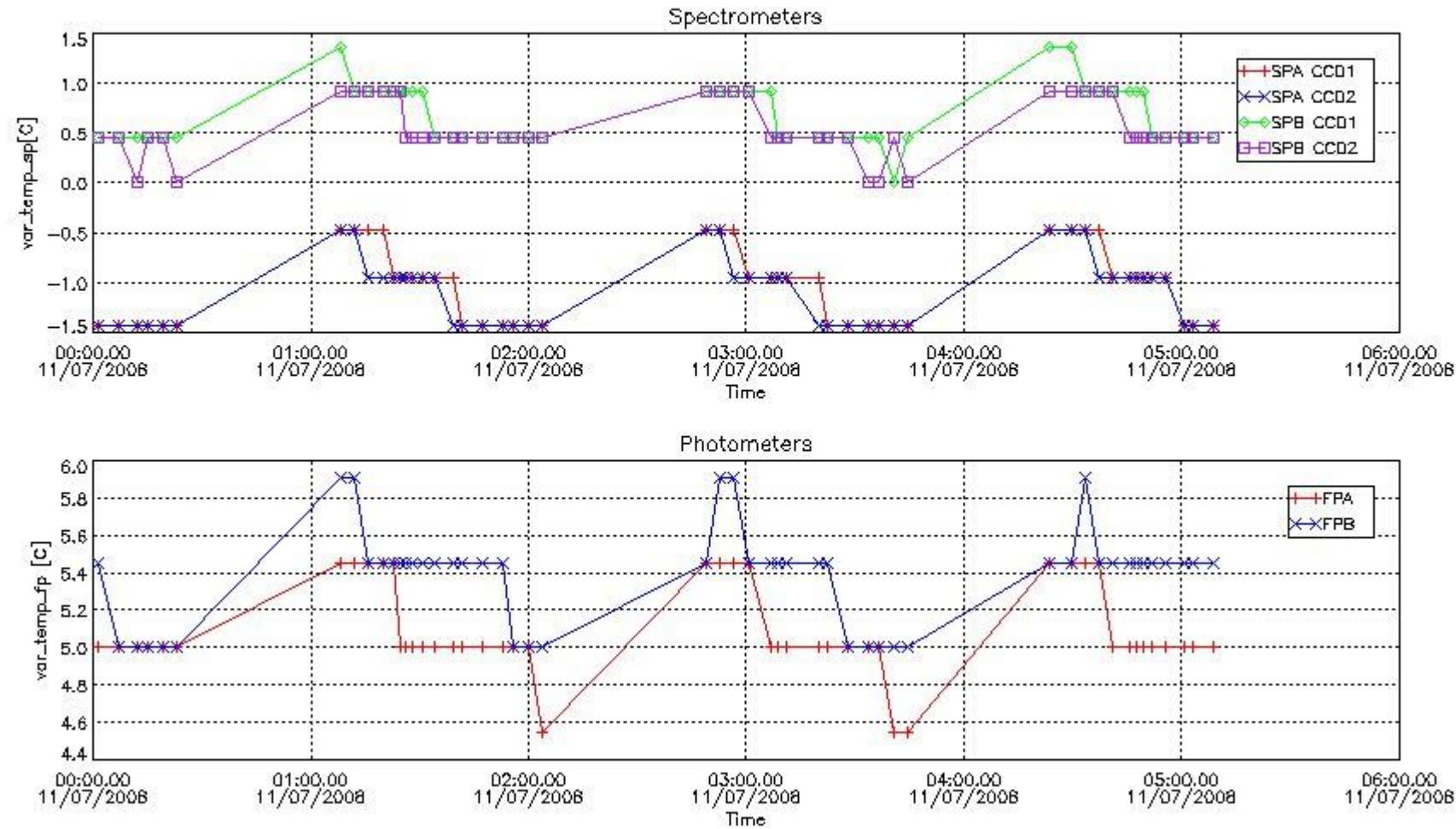
#### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20080711_000110_000000362070_00145_33265_0292.N1	11-JUL-2008 00:01:10	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	33265	No
2	GOM_TRA_1PNPDE20080711_000655_000000342070_00145_33265_0293.N1	11-JUL-2008 00:06:55	Bright	34.000	133	40Zet Her	2.8070	6000.0	68	33265	No
3	GOM_TRA_1PNPDE20080711_001214_000000392070_00145_33265_0294.N1	11-JUL-2008 00:12:14	Bright	39.000	69	33Gam Dra	2.2310	3800.0	78	33265	No

4	GOM_TRA_1PNPDE20080711_001511_000000342070_00145_33265_0295.N1	11-JUL-2008 00:15:11	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	33265	No
5	GOM_TRA_1PNPDE20080711_001922_000000362070_00145_33265_0296.N1	11-JUL-2008 00:19:22	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	33265	No
6	GOM_TRA_1PNPDE20080711_002310_000000352070_00145_33265_0297.N1	11-JUL-2008 00:23:10	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	33265	No
7	GOM_TRA_1PNPDE20080711_010817_000000422070_00146_33266_0424.N1	11-JUL-2008 01:08:17	Dark	42.000	9	Alp Eri	0.45300	24000.	84	33266	No
8	GOM_TRA_1PNPDE20080711_011212_000000372070_00146_33266_0425.N1	11-JUL-2008 01:12:12	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	33266	No
9	GOM_TRA_1PNPDE20080711_011551_000000312070_00146_33266_0426.N1	11-JUL-2008 01:15:51	Straylight	31.000	148	Alp Tuc	2.8780	4100.0	62	33266	No
10	GOM_TRA_1PNPDE20080711_011954_000000402070_00146_33266_0427.N1	11-JUL-2008 01:19:54	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	33266	No
11	GOM_TRA_1PNPDE20080711_012257_000000402070_00146_33266_0428.N1	11-JUL-2008 01:22:57	Straylight	40.000	141	Bet Ara	2.8400	4600.0	80	33266	No
12	GOM_TRA_1PNPDE20080711_012428_000000382070_00146_33266_0429.N1	11-JUL-2008 01:24:28	Twilight_and_stray	38.000	147	Alp Ara	2.8770	26000.	76	33266	No
13	GOM_TRA_1PNPDE20080711_012619_000000412070_00146_33266_0430.N1	11-JUL-2008 01:26:19	Twilight_and_stray	40.500	40	The Sco	1.8590	7100.0	81	33266	No
14	GOM_TRA_1PNPDE20080711_012759_000000392070_00146_33266_0431.N1	11-JUL-2008 01:27:59	Bright	38.500	25	35Lam Sco	1.6200	28000.	77	33266	No
15	GOM_TRA_1PNPDE20080711_013038_000000402070_00146_33266_0432.N1	11-JUL-2008 01:30:38	Bright	39.500	137	22Lam Sgr	2.8240	4400.0	79	33266	No
16	GOM_TRA_1PNPDE20080711_013409_000000372070_00146_33266_0433.N1	11-JUL-2008 01:34:09	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	33266	No
17	GOM_TRA_1PNPDE20080711_013929_000000362070_00146_33266_0434.N1	11-JUL-2008 01:39:29	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	33266	No
18	GOM_TRA_1PNPDE20080711_014146_000000362070_00146_33266_0435.N1	11-JUL-2008 01:41:46	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	33266	No
19	GOM_TRA_1PNPDE20080711_014731_000000362070_00146_33266_0436.N1	11-JUL-2008 01:47:31	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	33266	No
20	GOM_TRA_1PNPDE20080711_015249_000000352070_00146_33266_0437.N1	11-JUL-2008 01:52:49	Bright	34.500	69	33Gam Dra	2.2310	3800.0	69	33266	No
21	GOM_TRA_1PNPDE20080711_015547_000000352070_00146_33266_0438.N1	11-JUL-2008 01:55:47	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	33266	No
22	GOM_TRA_1PNPDE20080711_015958_000000362070_00146_33266_0439.N1	11-JUL-2008 01:59:58	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	33266	No
23	GOM_TRA_1PNPDE20080711_020346_000000342070_00146_33266_0440.N1	11-JUL-2008 02:03:46	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	33266	No
24	GOM_TRA_1PNPDE20080711_024854_000000402070_00147_33267_0614.N1	11-JUL-2008 02:48:54	Dark	39.500	9	Alp Eri	0.45300	24000.	79	33267	No
25	GOM_TRA_1PNPDE20080711_025249_000000382070_00147_33267_0615.N1	11-JUL-2008 02:52:49	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	33267	No
26	GOM_TRA_1PNPDE20080711_025628_000000312070_00147_33267_0616.N1	11-JUL-2008 02:56:28	Straylight	31.000	148	Alp Tuc	2.8780	4100.0	62	33267	No
27	GOM_TRA_1PNPDE20080711_030030_000000402070_00147_33267_0617.N1	11-JUL-2008 03:00:30	Straylight	39.500	45	Alp Pav	1.9400	26000.	79	33267	No
28	GOM_TRA_1PNPDE20080711_030656_000000392070_00147_33267_0618.N1	11-JUL-2008 03:06:56	Twilight_and_stray	39.000	40	The Sco	1.8590	7100.0	78	33267	No
29	GOM_TRA_1PNPDE20080711_030835_000000392070_00147_33267_0619.N1	11-JUL-2008 03:08:35	Bright	39.000	25	35Lam Sco	1.6200	28000.	78	33267	No
30	GOM_TRA_1PNPDE20080711_031115_000000392070_00147_33267_0620.N1	11-JUL-2008 03:11:15	Bright	38.500	137	22Lam Sgr	2.8240	4400.0	77	33267	No
31	GOM_TRA_1PNPDE20080711_032005_000000352070_00147_33267_0621.N1	11-JUL-2008 03:20:05	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	33267	No
32	GOM_TRA_1PNPDE20080711_032222_000000352070_00147_33267_0622.N1	11-JUL-2008 03:22:22	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	33267	No
33	GOM_TRA_1PNPDE20080711_032807_000000362070_00147_33267_0623.N1	11-JUL-2008 03:28:07	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	33267	No
34	GOM_TRA_1PNPDE20080711_033325_000000352070_00147_33267_0624.N1	11-JUL-2008 03:33:25	Bright	34.500	69	33Gam Dra	2.2310	3800.0	69	33267	No
35	GOM_TRA_1PNPDE20080711_033623_000000332070_00147_33267_0625.N1	11-JUL-2008 03:36:23	Bright	33.000	119	14Eta Dra	2.7270	4700.0	66	33267	No
36	GOM_TRA_1PNPDE20080711_034034_000000342070_00147_33267_0626.N1	11-JUL-2008 03:40:34	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	33267	No
37	GOM_TRA_1PNPDE20080711_034421_000000322070_00147_33267_0627.N1	11-JUL-2008 03:44:21	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	33267	No
38	GOM_TRA_1PNPDE20080711_042319_000000422070_00147_33267_0728.N1	11-JUL-2008 04:23:19	Dark	41.500	157	The1Eri	2.9060	9300.0	83	33267	No
39	GOM_TRA_1PNPDE20080711_042930_000000502070_00148_33268_0729.N1	11-JUL-2008 04:29:30	Dark	49.500	9	Alp Eri	0.45300	24000.	99	33268	No
40	GOM_TRA_1PNPDE20080711_043325_000000372070_00148_33268_0730.N1	11-JUL-2008 04:33:25	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	33268	No
41	GOM_TRA_1PNPDE20080711_043704_000000322070_00148_33268_0731.N1	11-JUL-2008 04:37:04	Straylight	32.000	148	Alp Tuc	2.8780	4100.0	64	33268	No
42	GOM_TRA_1PNPDE20080711_044106_000000392070_00148_33268_0732.N1	11-JUL-2008 04:41:06	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	33268	No
43	GOM_TRA_1PNPDE20080711_044541_000000372070_00148_33268_0733.N1	11-JUL-2008 04:45:41	Twilight_and_stray	37.000	147	Alp Ara	2.8770	26000.	74	33268	No
44	GOM_TRA_1PNPDE20080711_044732_000000372070_00148_33268_0734.N1	11-JUL-2008 04:47:32	Twilight_and_stray	36.500	40	The Sco	1.8590	7100.0	73	33268	No
45	GOM_TRA_1PNPDE20080711_044912_000000422070_00148_33268_0735.N1	11-JUL-2008 04:49:12	Bright	41.500	25	35Lam Sco	1.6200	28000.	83	33268	No
46	GOM_TRA_1PNPDE20080711_045151_000000402070_00148_33268_0736.N1	11-JUL-2008 04:51:51	Bright	40.000	137	22Lam Sgr	2.8240	4400.0	80	33268	No
47	GOM_TRA_1PNPDE20080711_045521_000000372070_00148_33268_0737.N1	11-JUL-2008 04:55:21	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	33268	No
48	GOM_TRA_1PNPDE20080711_050041_000000362070_00148_33268_0738.N1	11-JUL-2008 05:00:41	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	33268	No
49	GOM_TRA_1PNPDE20080711_050258_000000352070_00148_33268_0739.N1	11-JUL-2008 05:02:58	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	33268	No
50	GOM_TRA_1PNPDE20080711_050843_000000362070_00148_33268_0740.N1	11-JUL-2008 05:08:43	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	33268	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).

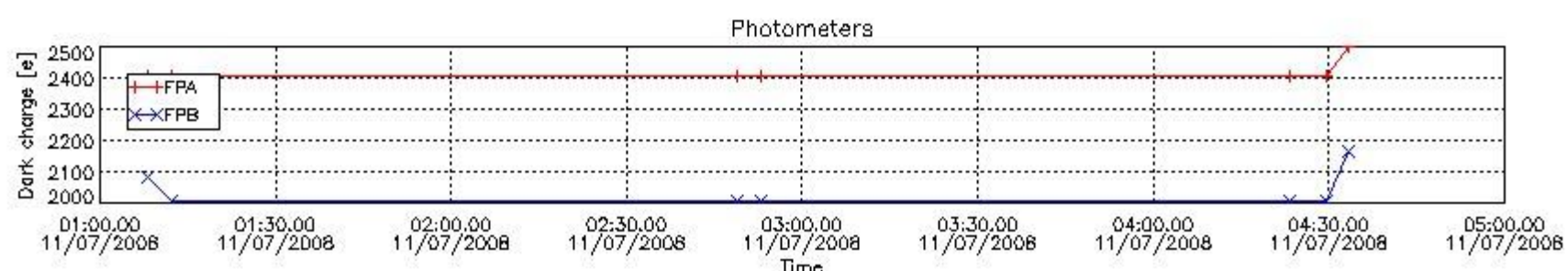
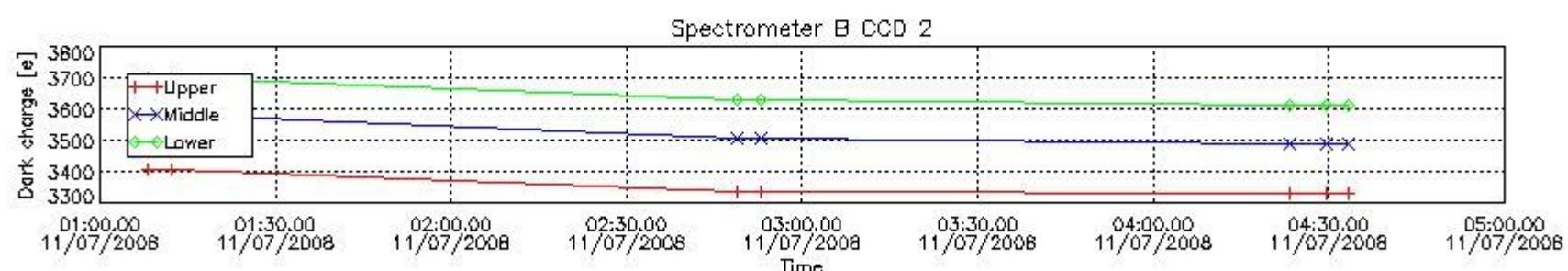
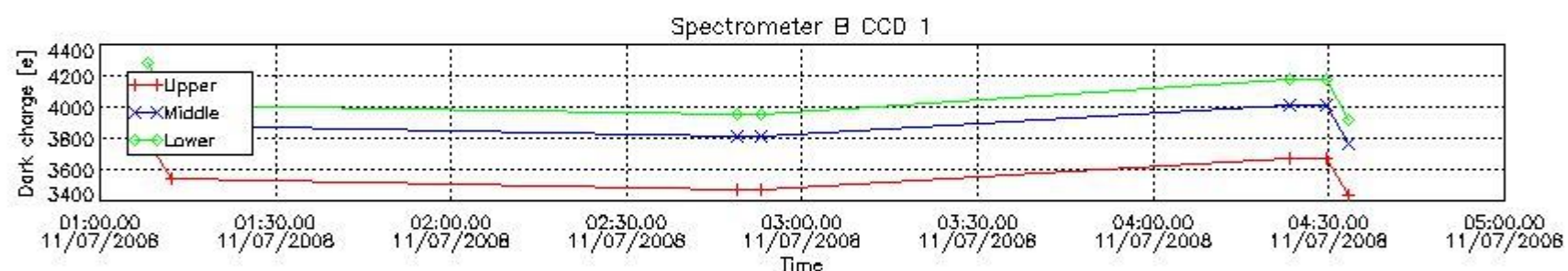
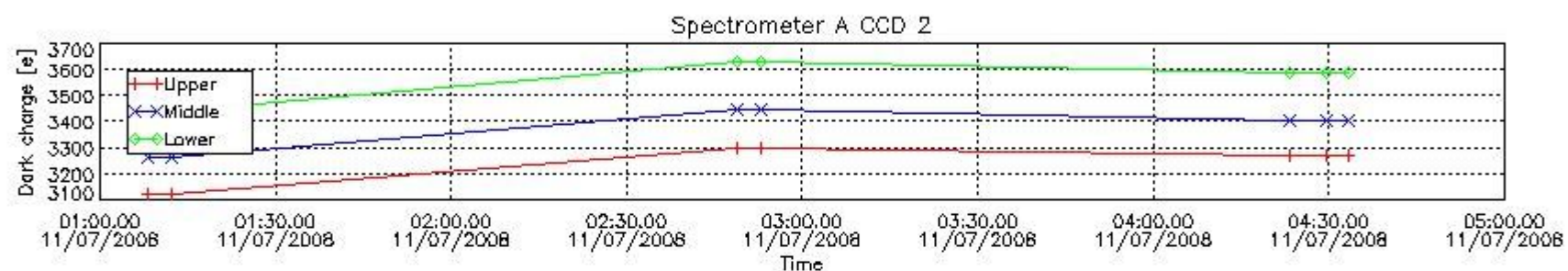
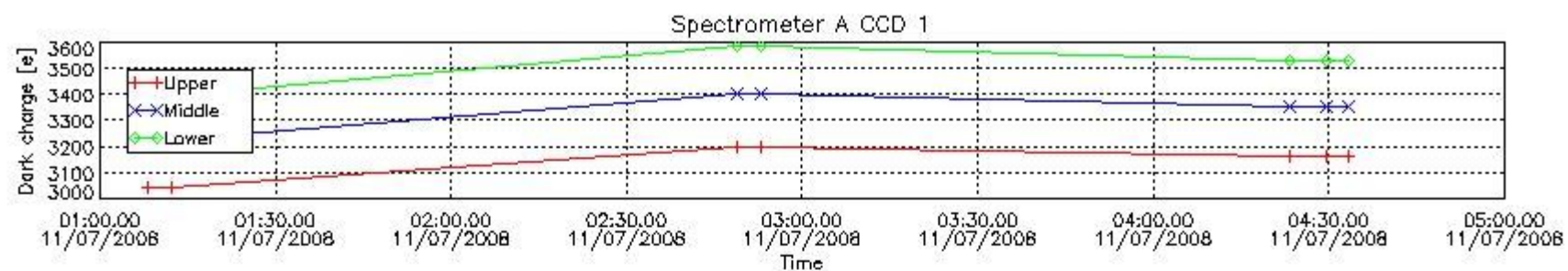
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20080711_010817_000000422070_00146_33266_0424.N1	DC map used
GOM_TRA_1PNPDE20080711_011212_000000372070_00146_33266_0425.N1	DC map used
GOM_TRA_1PNPDE20080711_011551_000000312070_00146_33266_0426.N1	DC map used
GOM_TRA_1PNPDE20080711_011954_000000402070_00146_33266_0427.N1	DC map used
GOM_TRA_1PNPDE20080711_012257_000000402070_00146_33266_0428.N1	DC map used
GOM_TRA_1PNPDE20080711_012428_000000382070_00146_33266_0429.N1	DC map used
GOM_TRA_1PNPDE20080711_012619_000000412070_00146_33266_0430.N1	DC map used
GOM_TRA_1PNPDE20080711_012759_000000392070_00146_33266_0431.N1	DC map used
GOM_TRA_1PNPDE20080711_013038_000000402070_00146_33266_0432.N1	DC map used
GOM_TRA_1PNPDE20080711_013409_000000372070_00146_33266_0433.N1	DC map used
GOM_TRA_1PNPDE20080711_013929_000000362070_00146_33266_0434.N1	DC map used
GOM_TRA_1PNPDE20080711_014146_000000362070_00146_33266_0435.N1	DC map used
GOM_TRA_1PNPDE20080711_014731_000000362070_00146_33266_0436.N1	DC map used
GOM_TRA_1PNPDE20080711_015249_000000352070_00146_33266_0437.N1	DC map used

GOM_TRA_1PNPDE20080711_015547_000000352070_00146_33266_0438.N1	DC map used
GOM_TRA_1PNPDE20080711_015958_000000362070_00146_33266_0439.N1	DC map used
GOM_TRA_1PNPDE20080711_020346_000000342070_00146_33266_0440.N1	DC map used

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

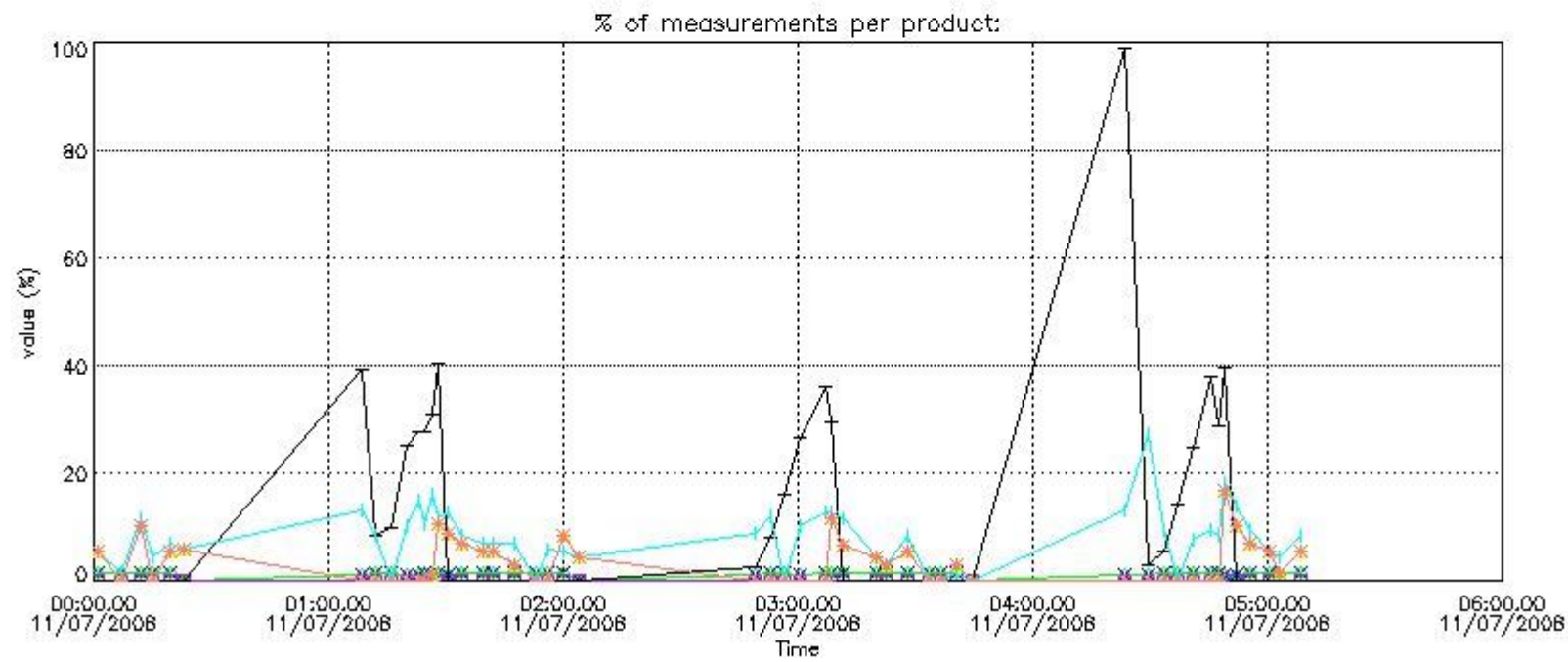
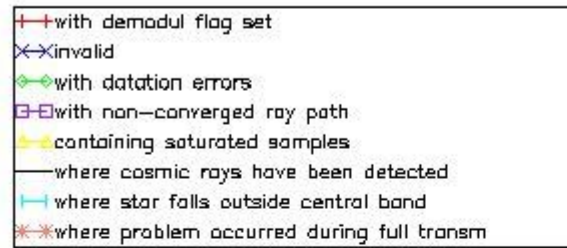
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors

(error flag in the MPH set to "0") are used.

5.1 Percentage of products during reporting period with:

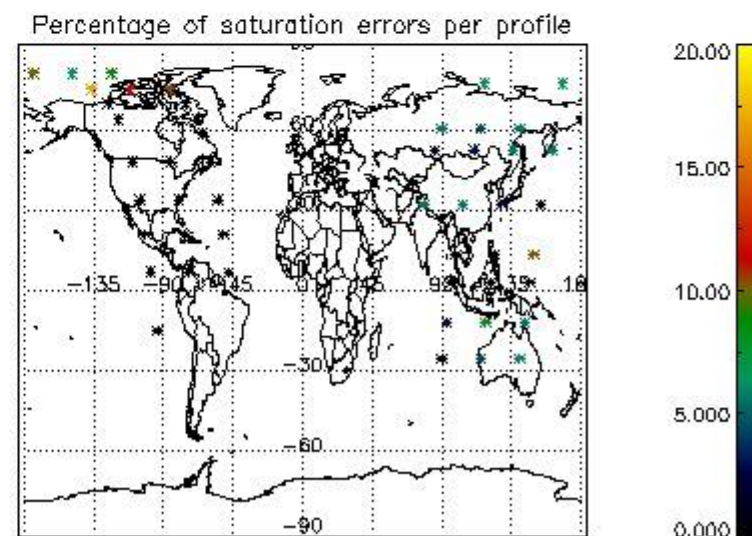
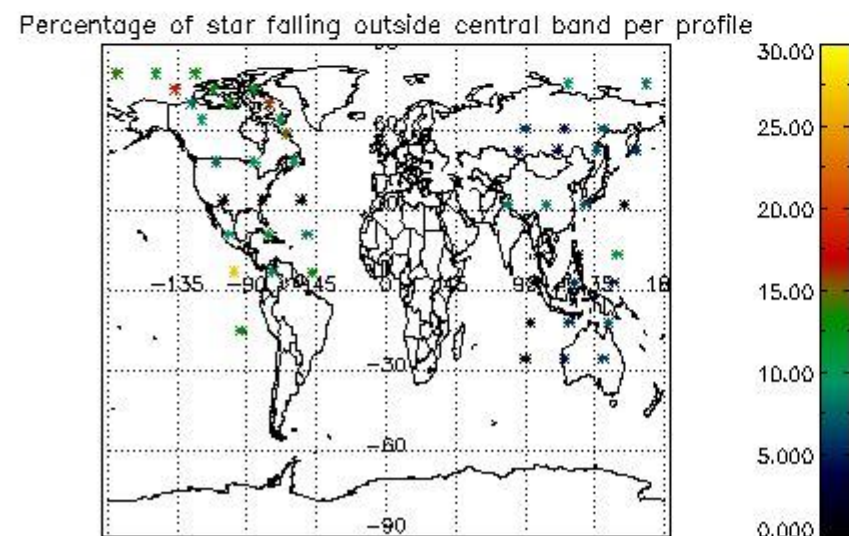
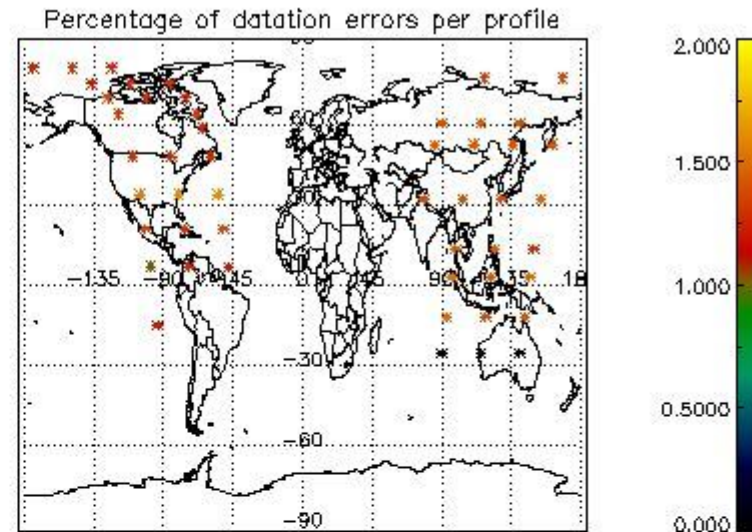
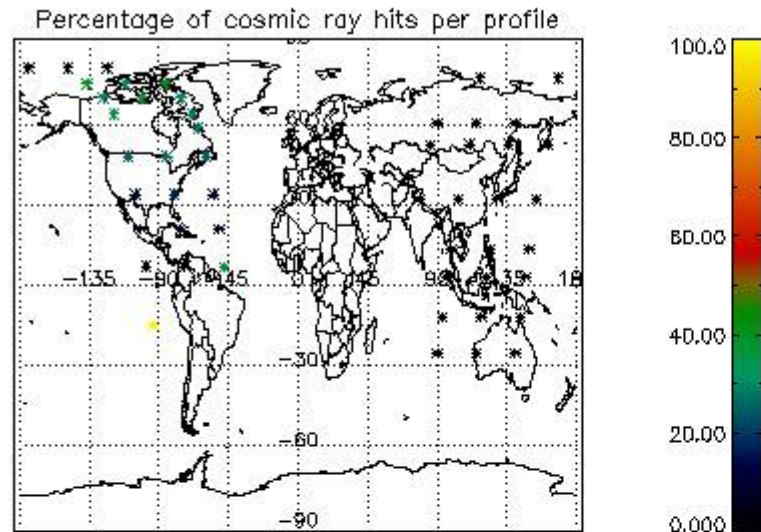
At least one measurement with demodulation flag set:	16.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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)

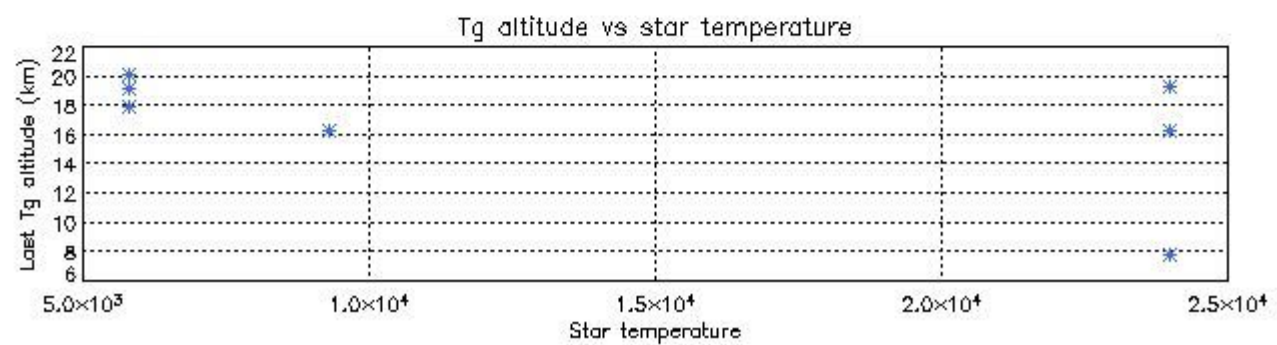
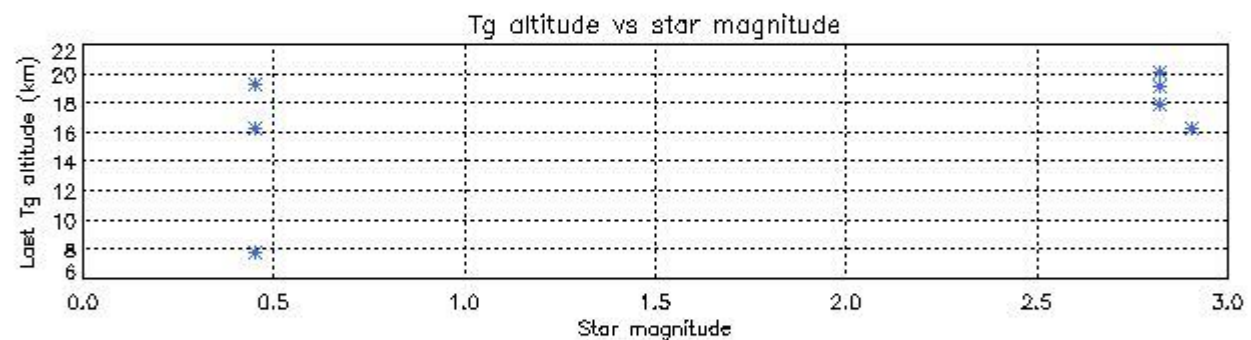
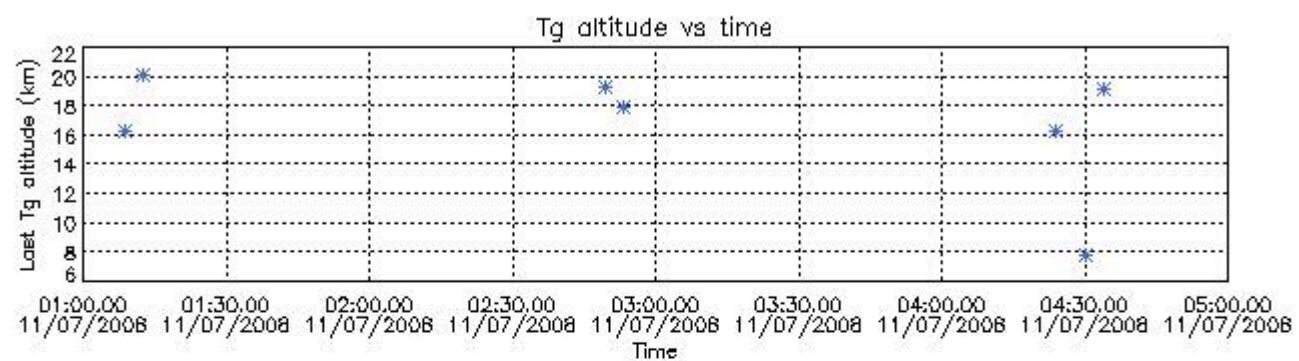
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.678	20.902	NaN
St. deviation:	4.1780	3.7845	NaN
Maximum:	20.112	30.025	NaN
Minimum:	7.8391	12.410	NaN
Number of data:	7.0000	31.000	NaN

### 6.2 Plot for DARK limb products

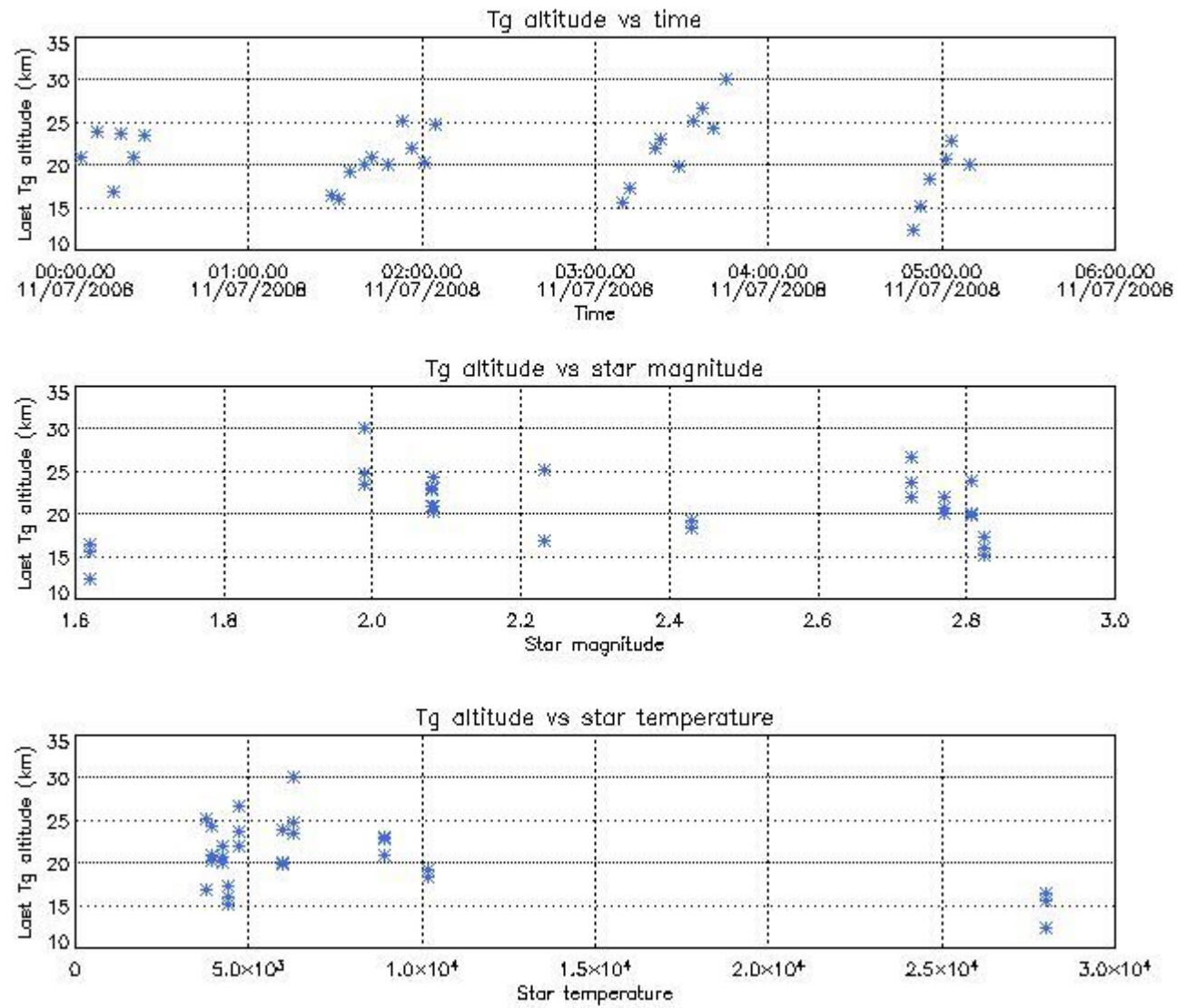


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

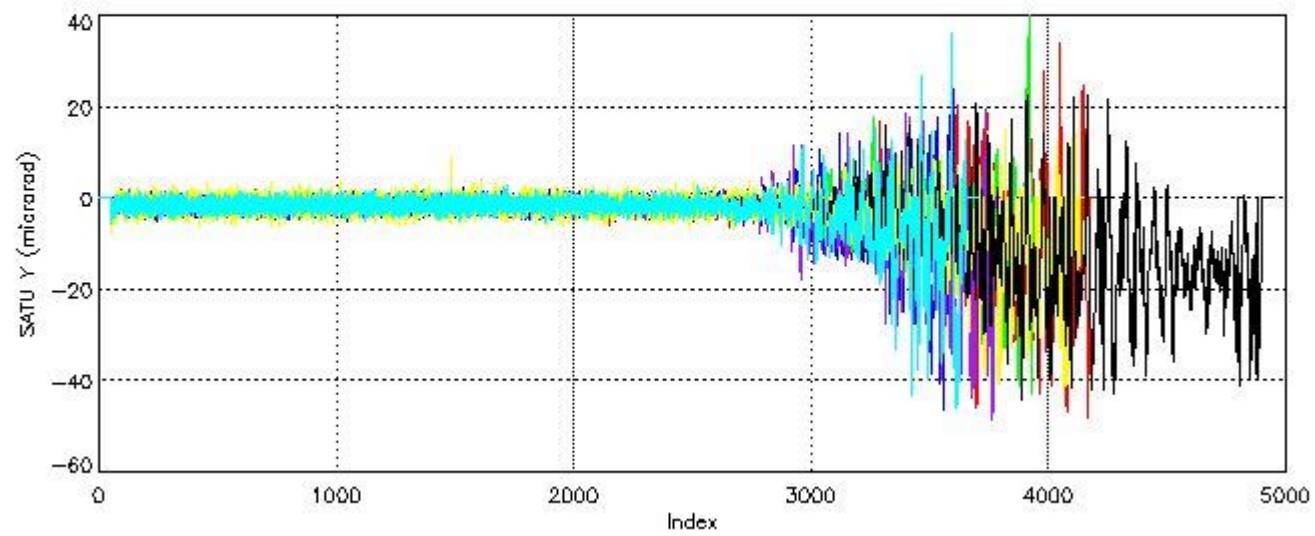
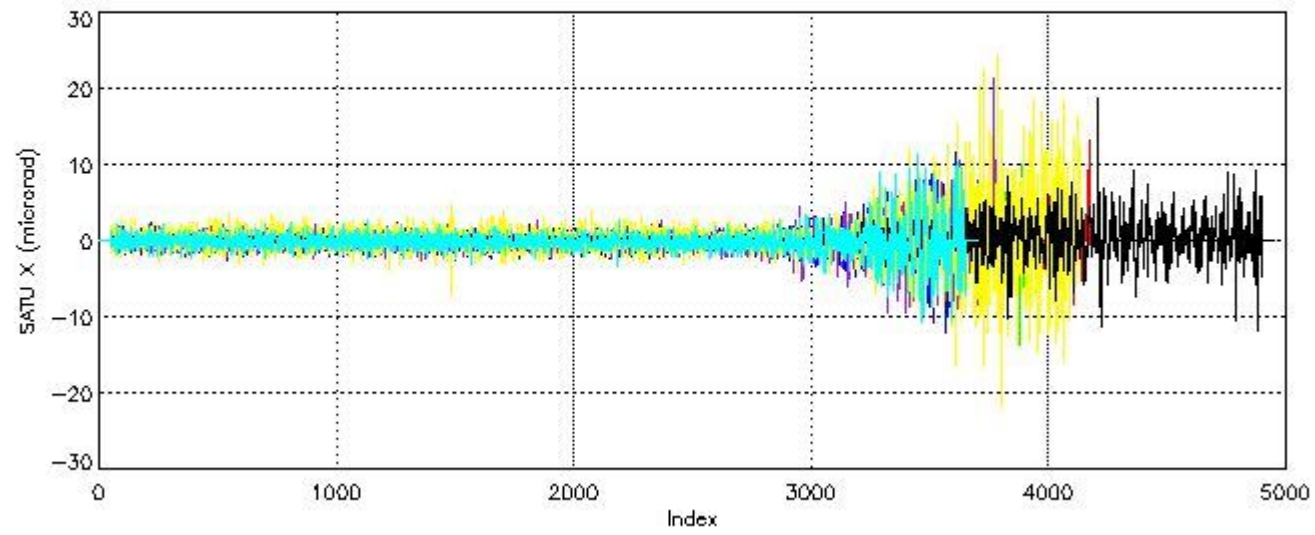


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.058434	-1.3788	-0.0086667	-1.3955
St. deviation:	0.55104	1.1039	0.64239	1.0630
Maximum:	3.8000	3.4000	3.5000	3.1000
Minimum:	-3.1000	-7.6000	-3.4000	-6.6000



Number of data:	6350.0	6350.0	25400.	25400.
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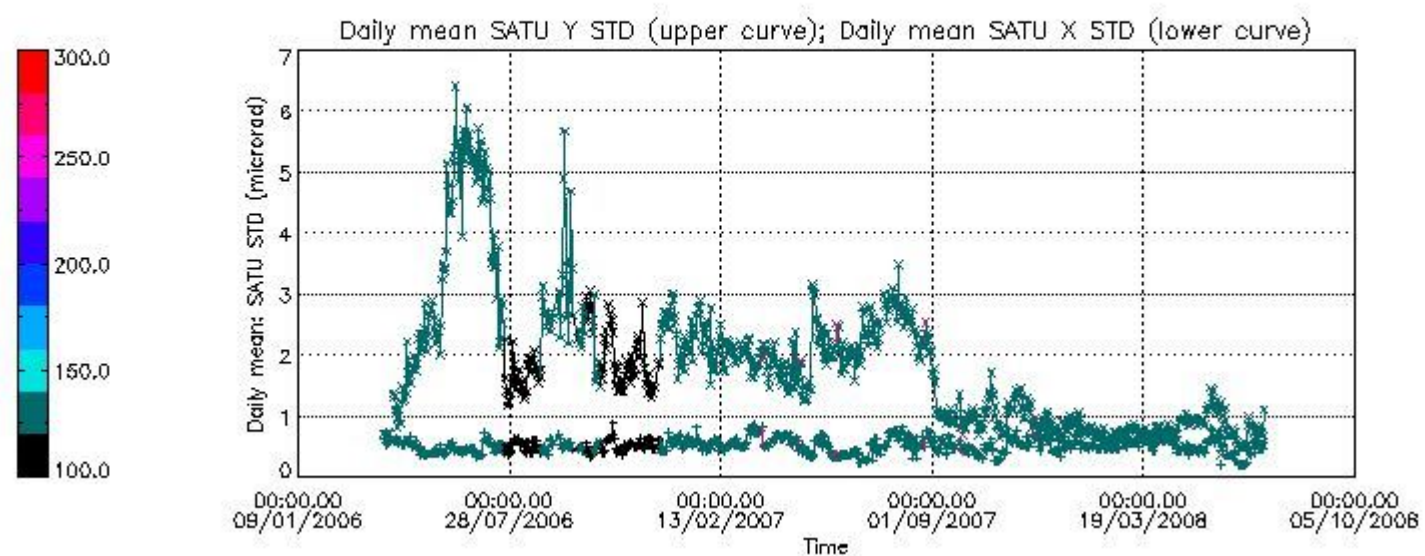
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

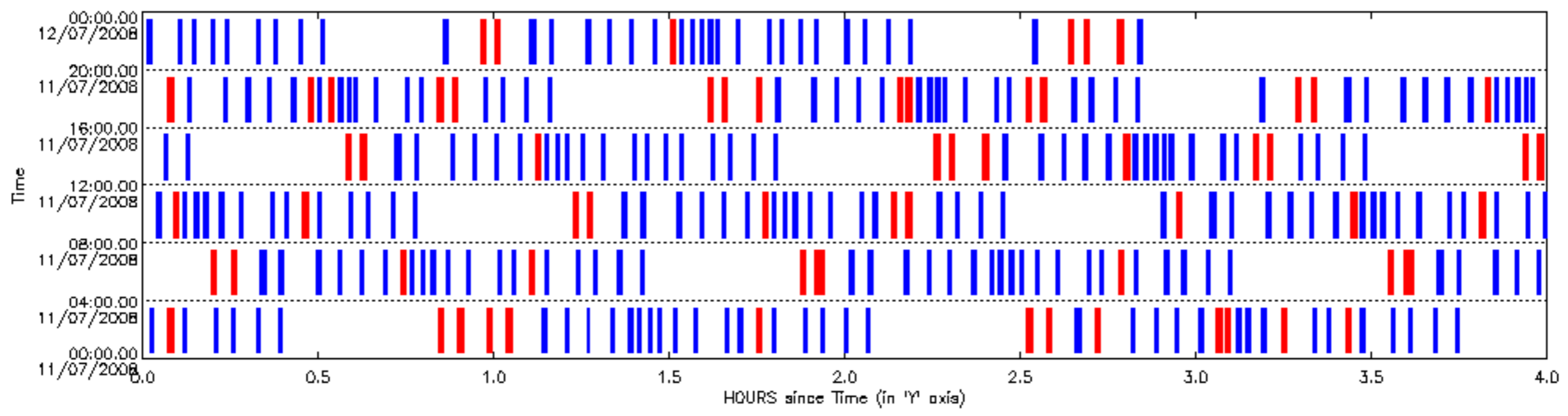
Lower curve: STD of SATU X axis

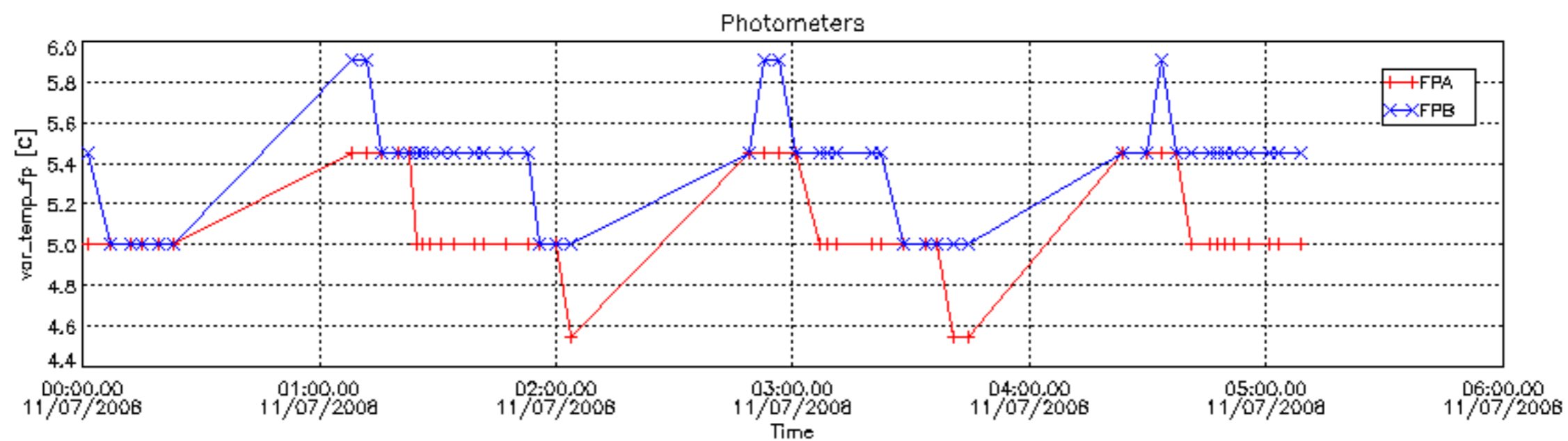
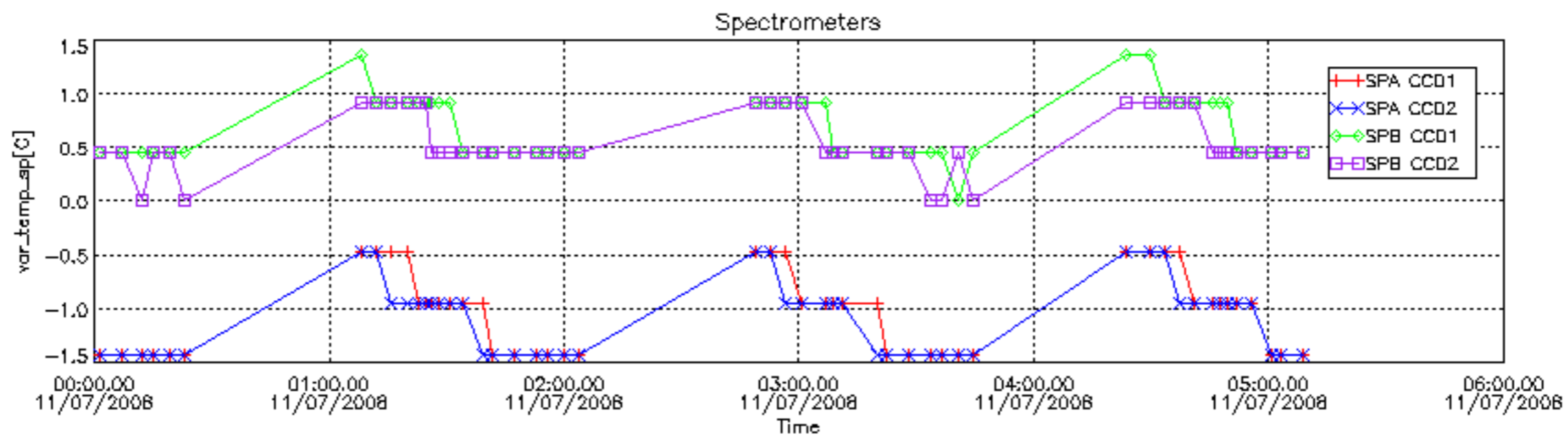


### 8. Auxiliary Data Files used for the production reported in section 2.4

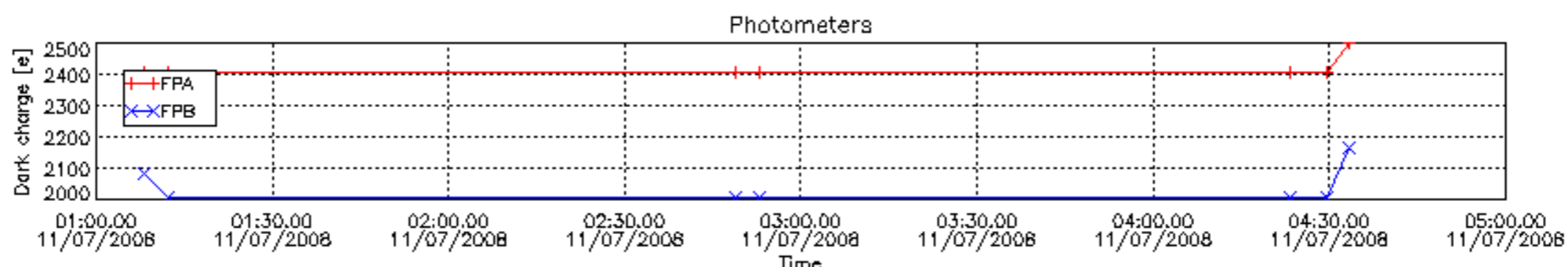
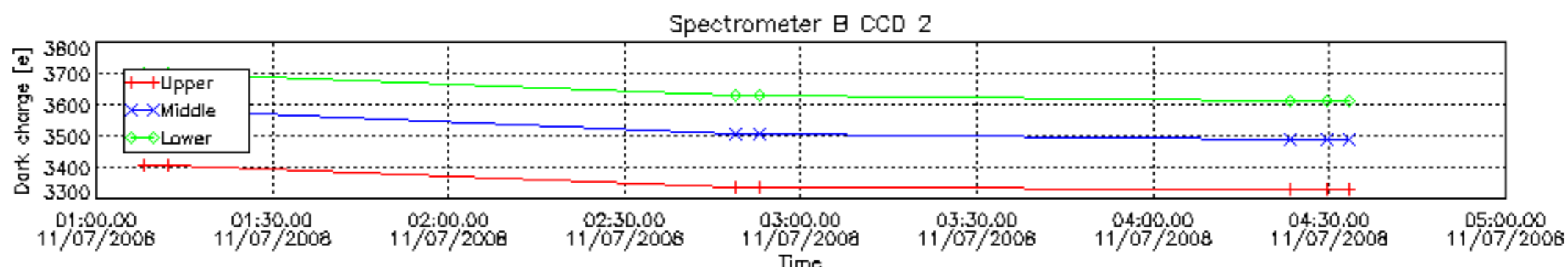
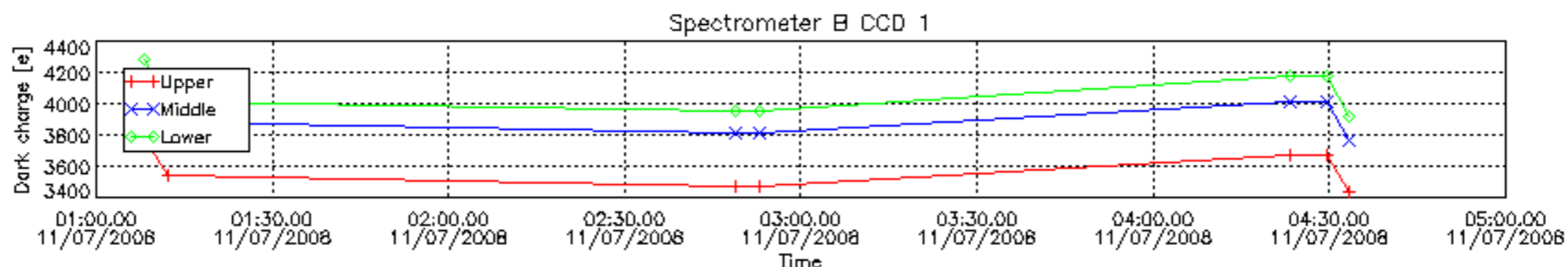
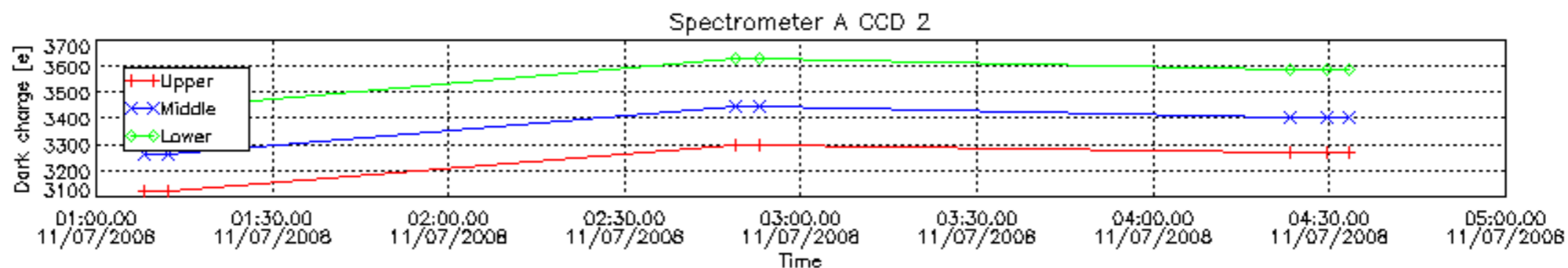
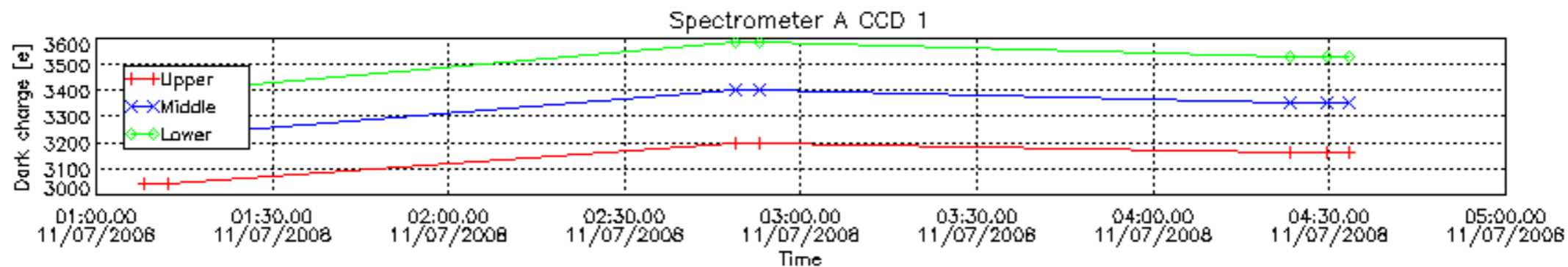
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

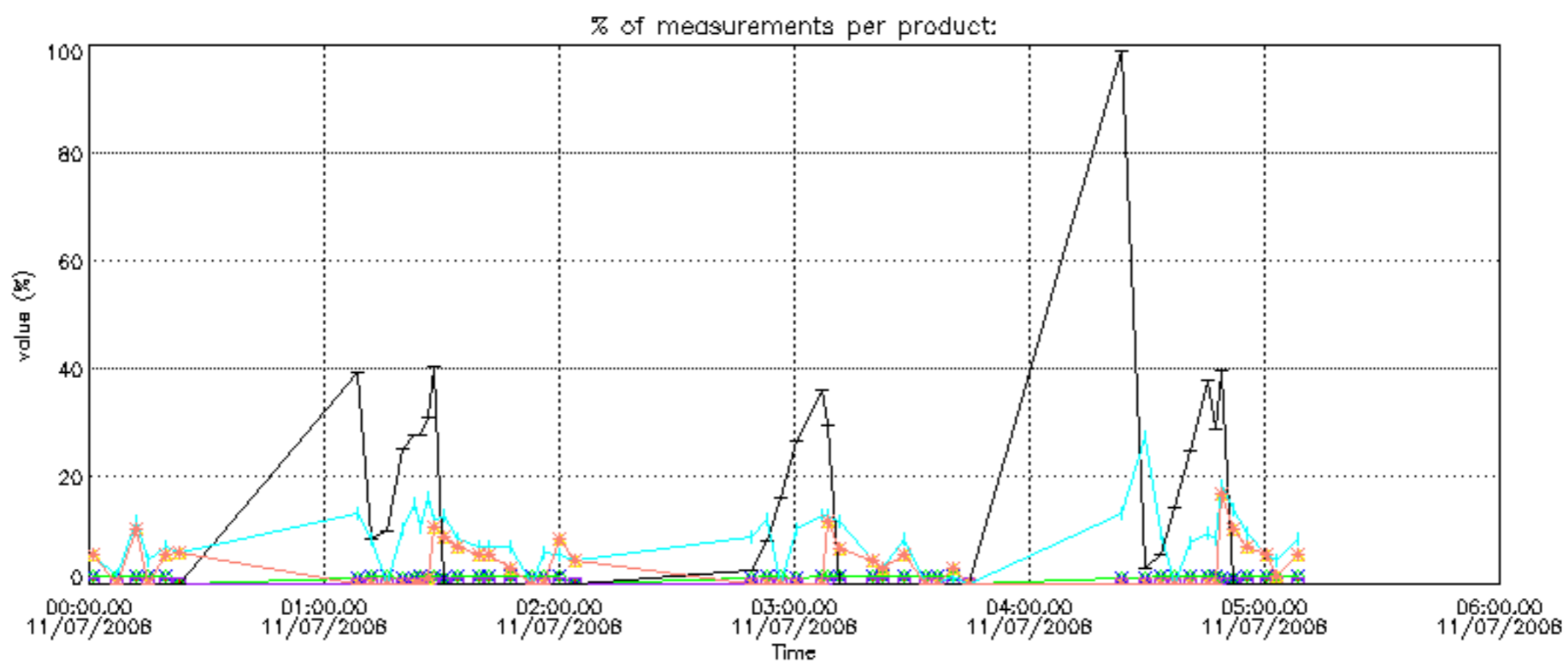
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	11-JUL-2008 00:01:10
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080707_131940_20080705_000000_20100101_000000	1	11-JUL-2008 00:01:10
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	11-JUL-2008 00:01:10
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-JUL-2008 00:01:10
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	11-JUL-2008 00:01:10
ECMWF_FILE	AUX_ECF_AXNECM20080710_072113_20080710_210000_20080711_090000	1	11-JUL-2008 00:01:10
ECMWF_FILE	AUX_ECF_AXNECM20080710_200115_20080711_030000_20080711_150000	38	11-JUL-2008 04:23:19
OPTIONAL_ECMWF_FILE	MISSING	1	11-JUL-2008 00:01:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080710_213118_000057382070_00143_33263_5921.N1	1	11-JUL-2008 00:01:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080710_231215_000057382070_00144_33264_5922.N1	7	11-JUL-2008 01:08:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080711_005312_000041442070_00145_33265_5923.N1	24	11-JUL-2008 02:48:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080711_020735_000054192070_00146_33266_5924.N1	38	11-JUL-2008 04:23:19



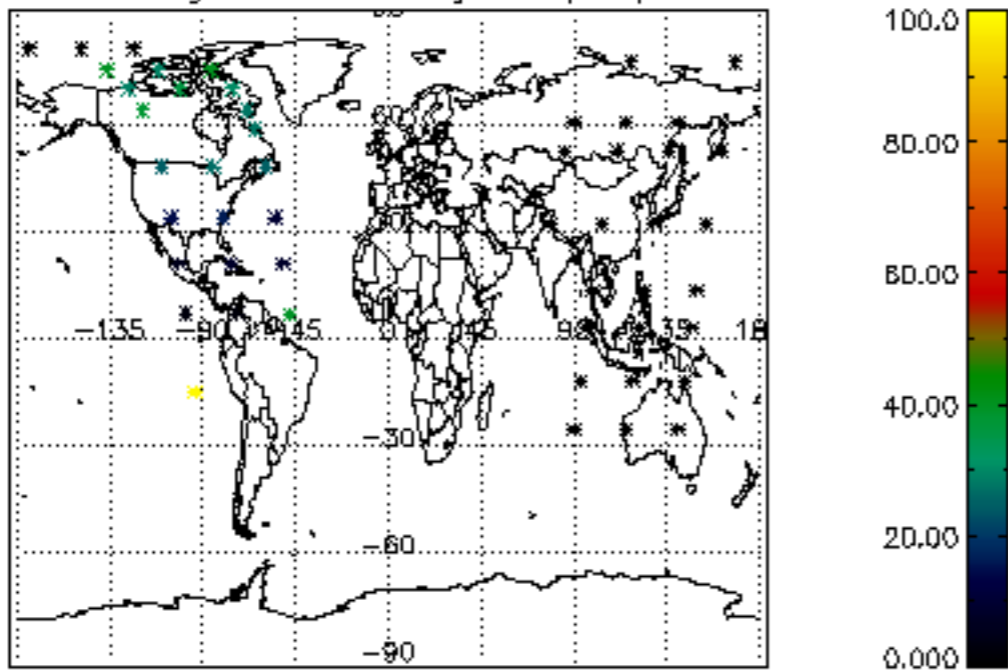




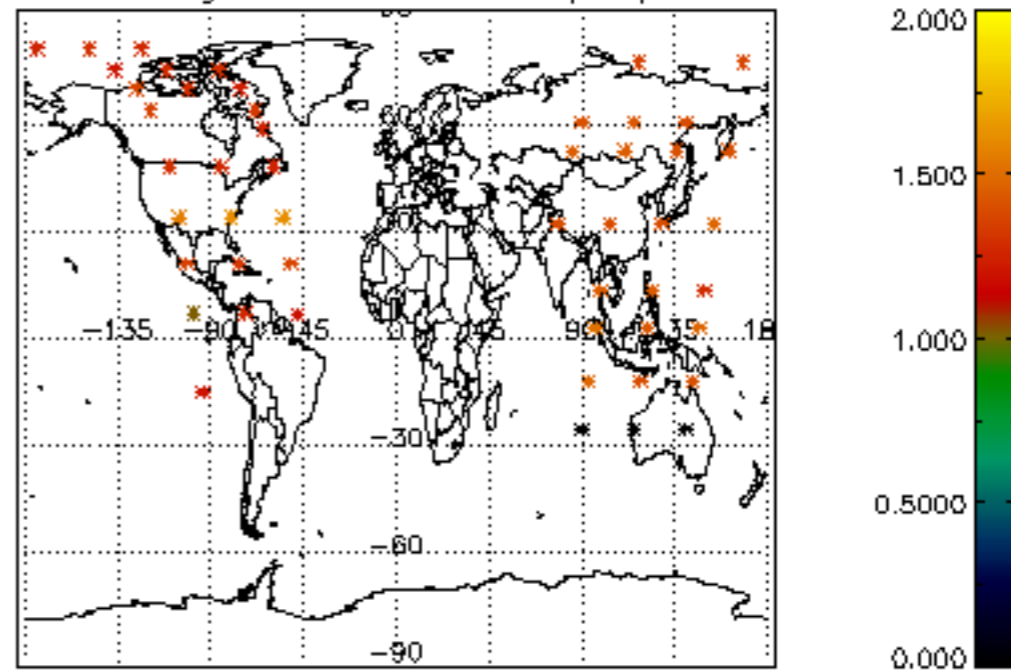




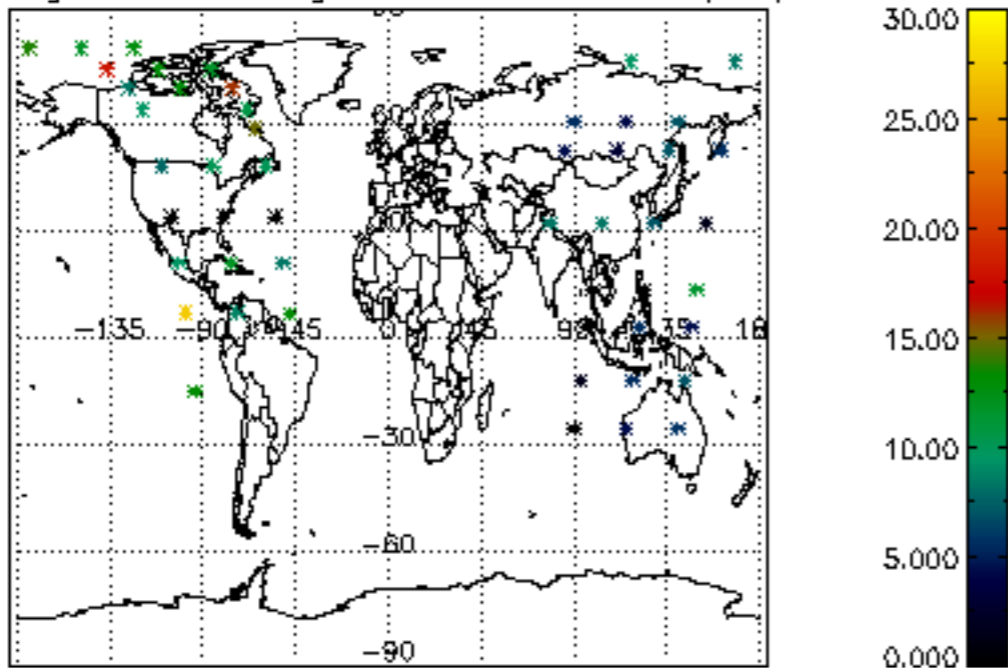
Percentage of cosmic ray hits per profile



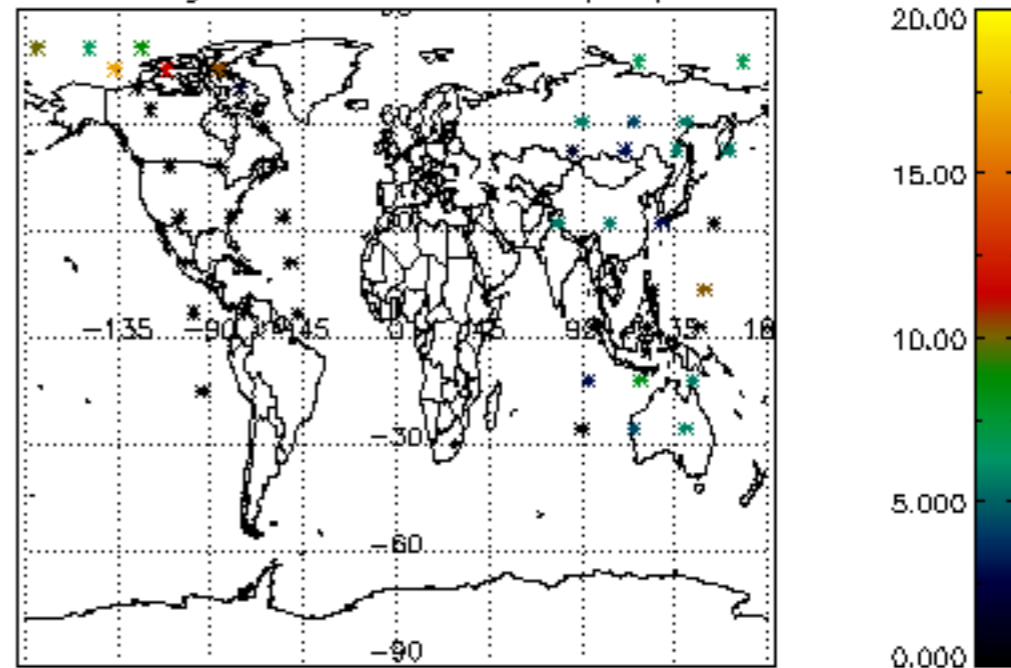
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

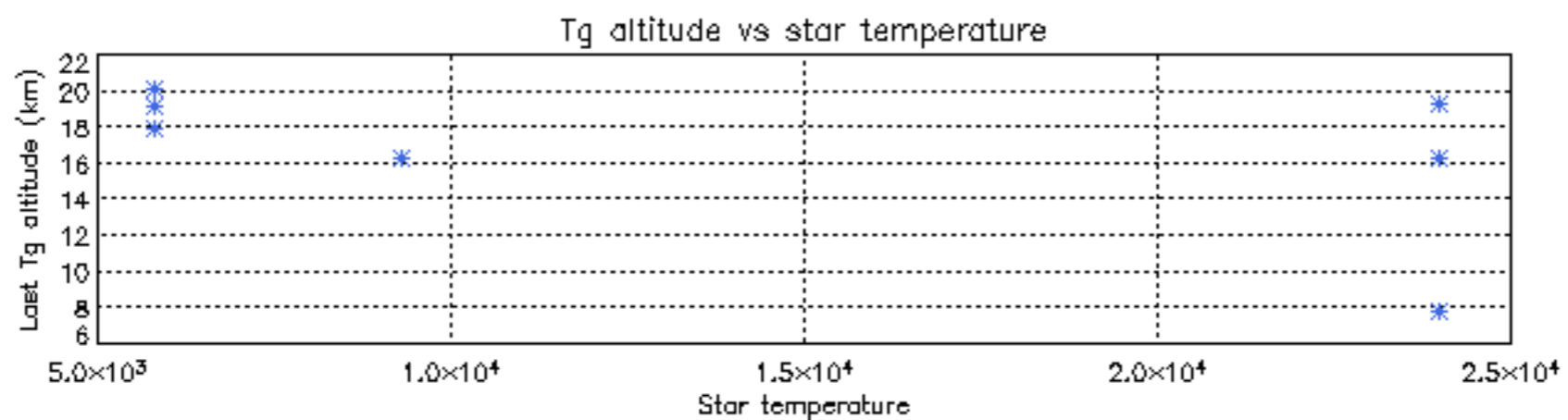
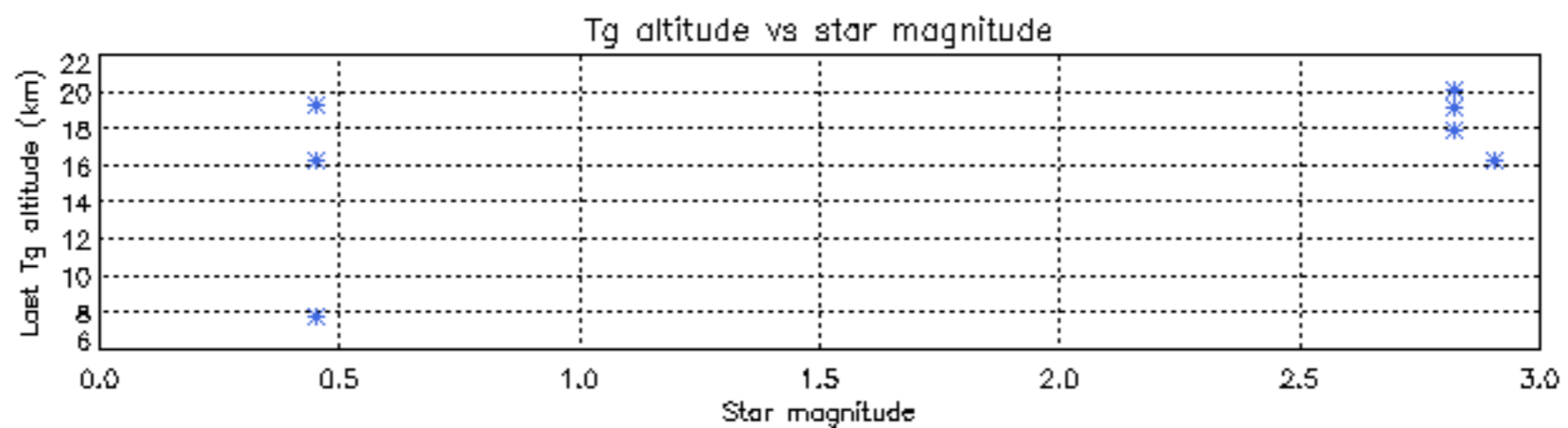
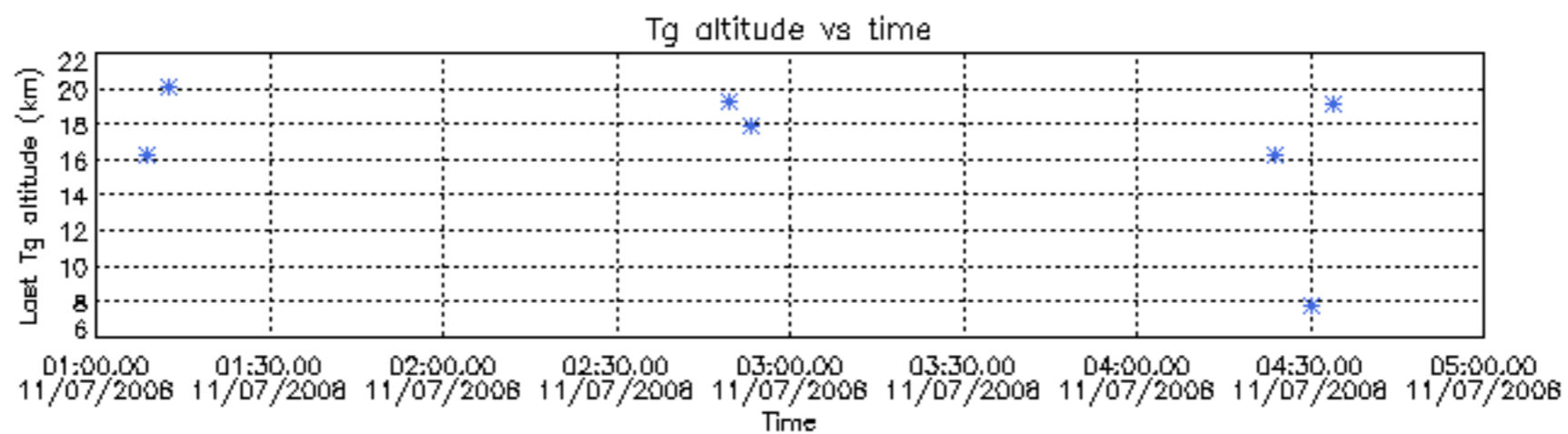


Percentage of saturation errors per profile

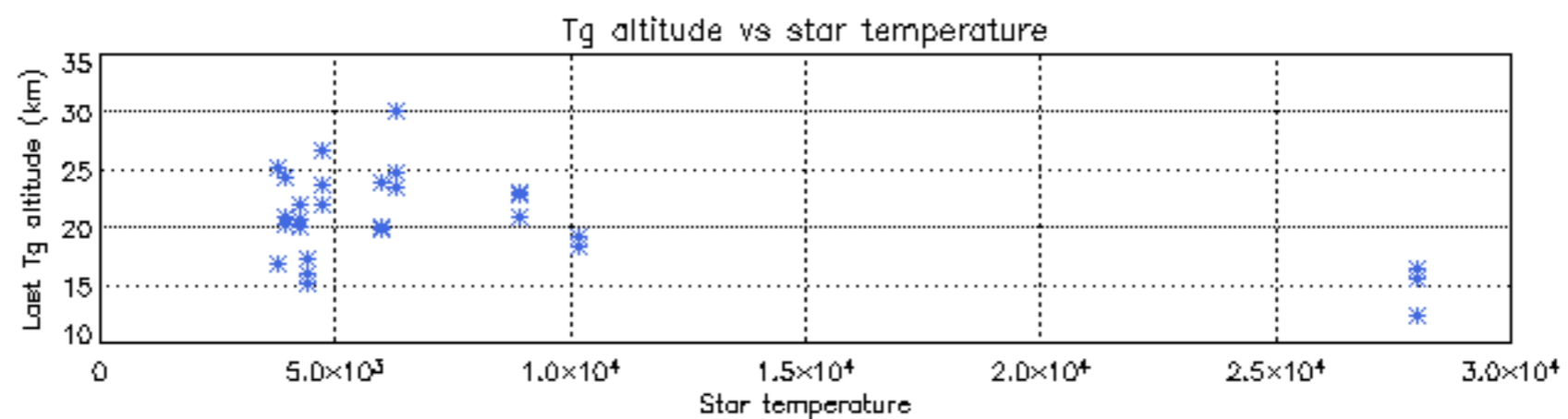
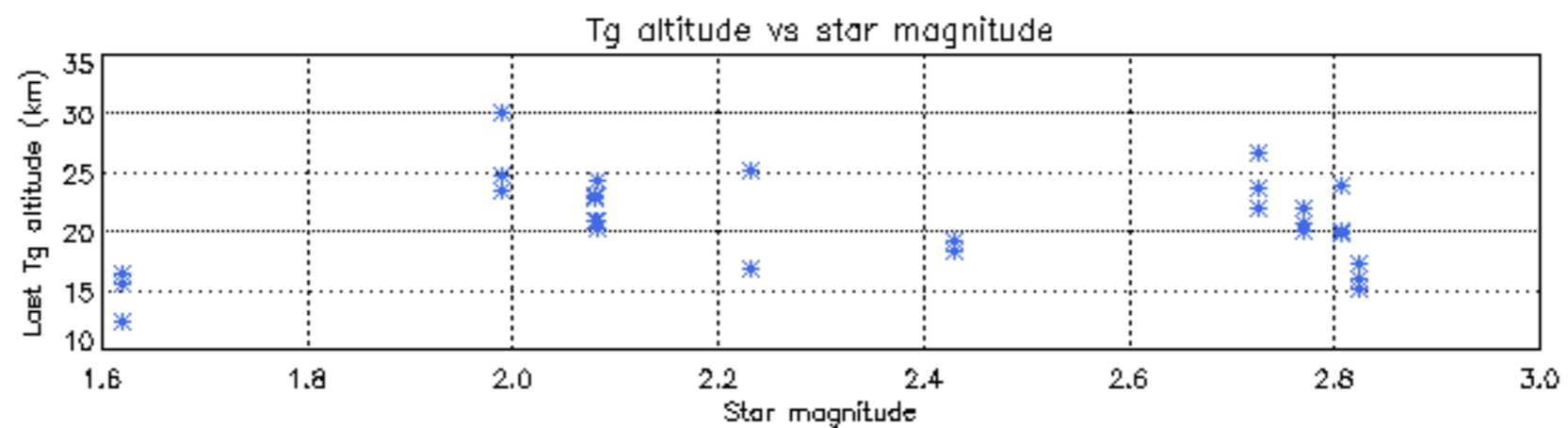
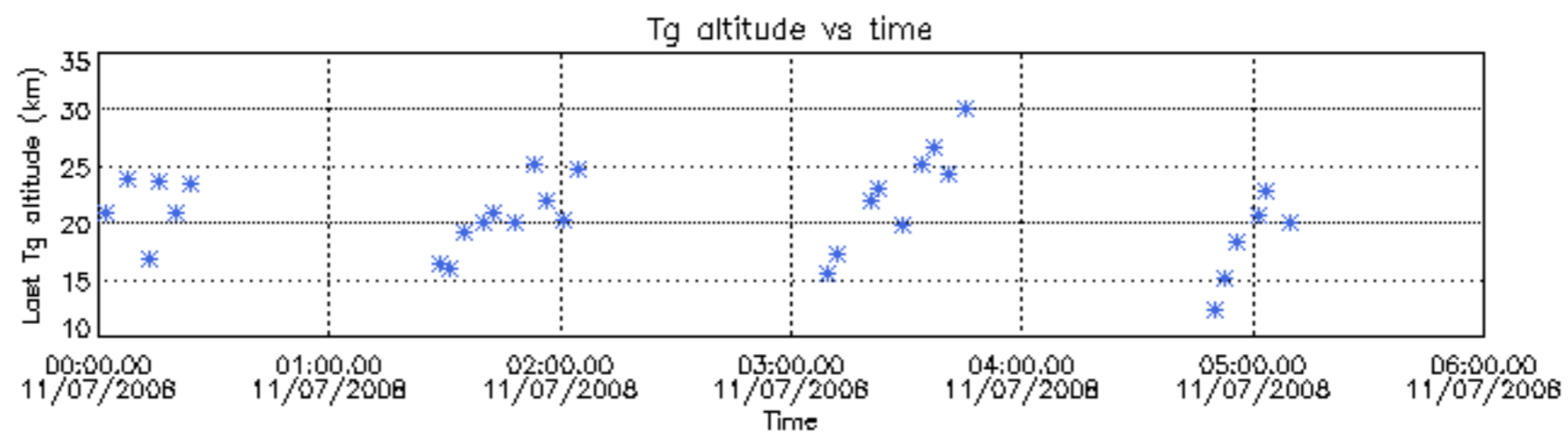


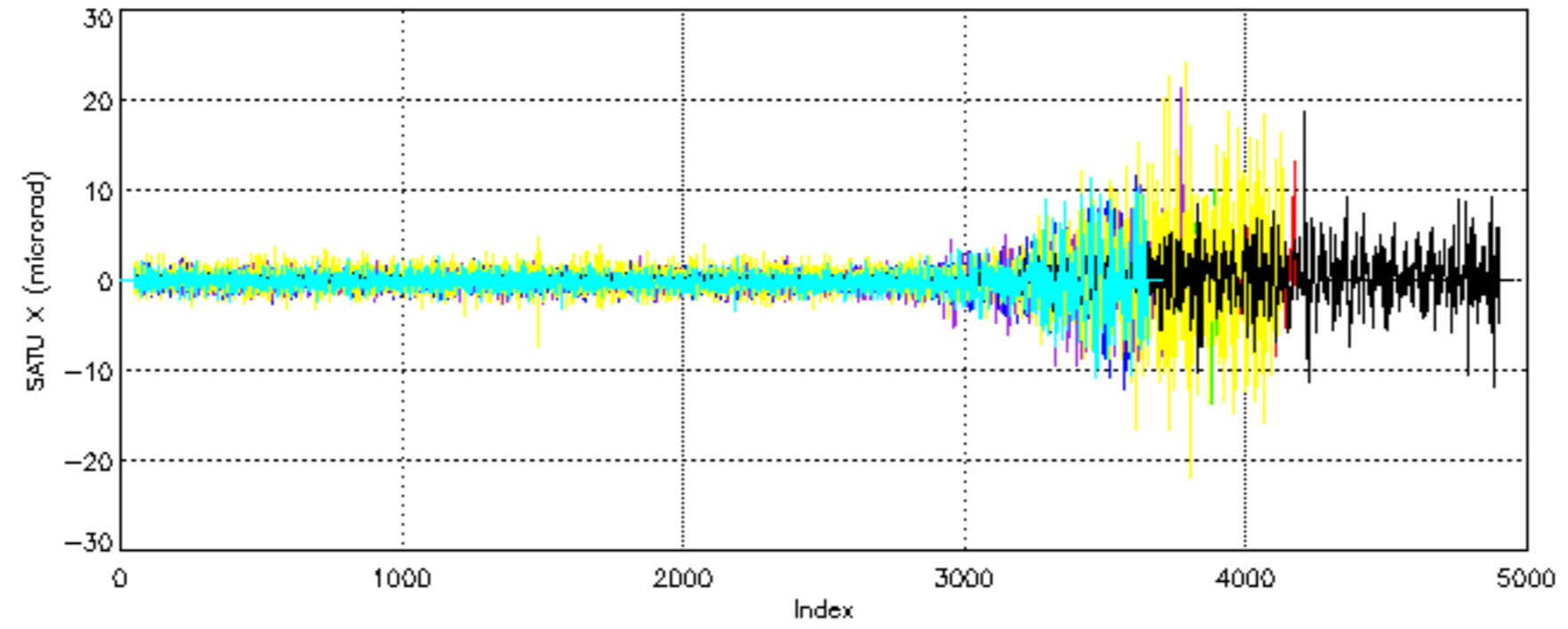


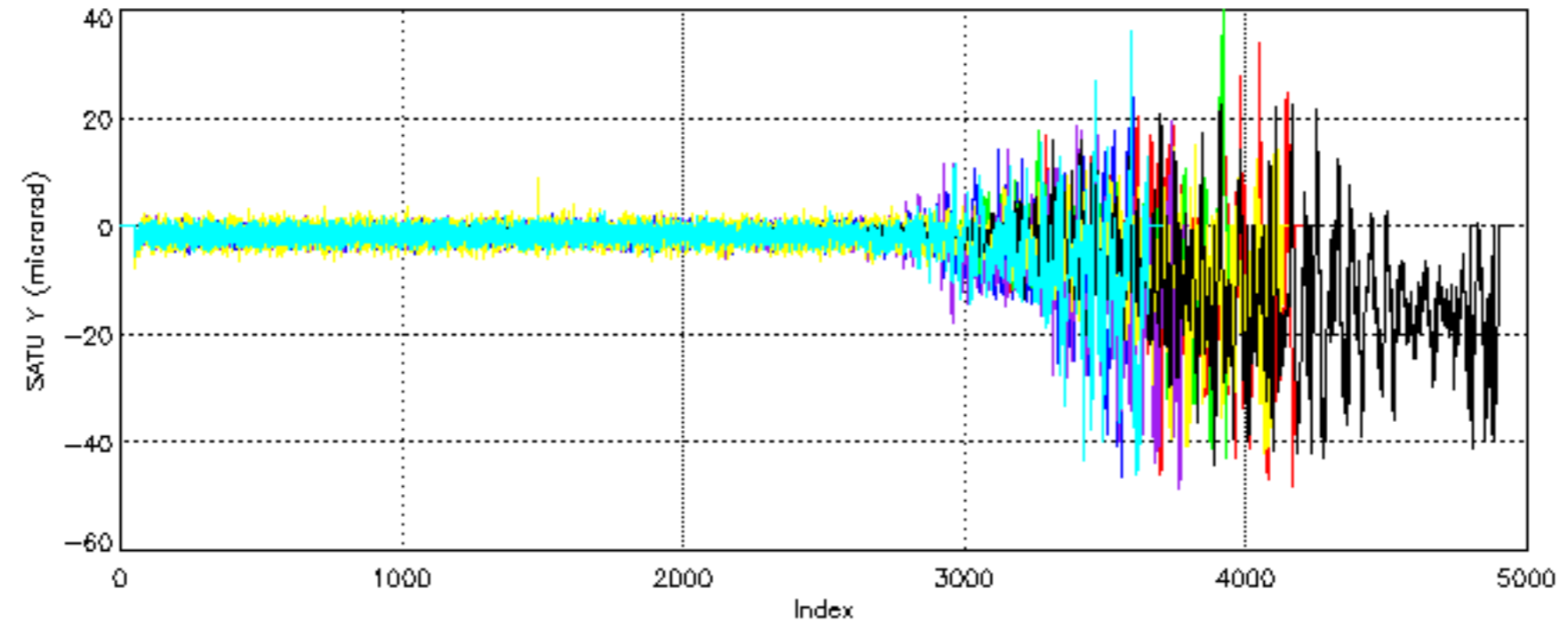
Tangent altitude at which the star is lost



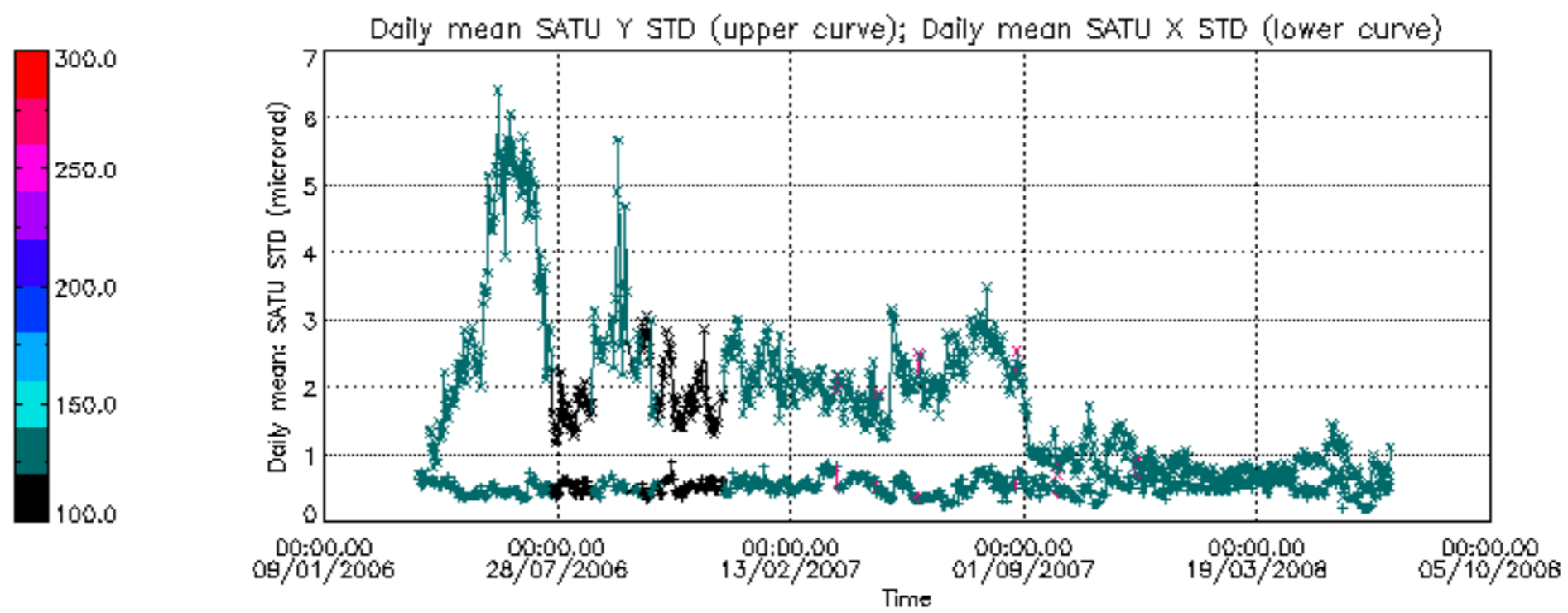
Tangent altitude at which the star is lost











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 3; 1274.5; 01-JUL-2008 20:08:33; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33134  
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 15; 4062.2; 01-JUL-2008 20:55:00; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;33134  
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 19; 4985.0; 01-JUL-2008 21:10:23; Dark ; 43.0; 94; 92Alp Cet ; 2.53; 3100;occ; 86; 0;33134  
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 6; 494.1; 01-JUL-2008 21:36:08; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33135  
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 16; 2449.6; 01-JUL-2008 22:08:43; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;33135  
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 13; 5392.4; 27-JUL-2008 09:15:45; Dark ; 52.0; 165; 34Gam Eri ; 2.95; 3200;occ; 104; 0;33499  
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 4; 3119.3; 27-JUL-2008 10:18:28; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;33500  
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17; 6921.7; 27-JUL-2008 11:21:50; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;33500
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1; 1564.7; 29-JUL-2008 13:51:07; Bright; 36.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 72; 27;33531  
 2; 2062.1; 29-JUL-2008 13:59:24; Bright; 38.0; 11; 53Alp Aql ; 0.76; 8000;occ; 76; 0;33531  
 3; 2143.9; 29-JUL-2008 14:00:46; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;33531  
 4; 2568.3; 29-JUL-2008 14:07:50; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;33531  
 5; 2663.6; 29-JUL-2008 14:09:26; Bright; 41.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 83; 0;33531  
 6; 2792.6; 29-JUL-2008 14:11:35; Bright; 36.5; 69; 33Gam Dra ; 2.23; 3800;occ; 73; 0;33531  
 7; 3105.1; 29-JUL-2008 14:16:47; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;33531  
 8; 3441.6; 29-JUL-2008 14:22:24; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33531  
 9; 4200.4; 29-JUL-2008 14:35:02; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;33531  
 10; 4509.7; 29-JUL-2008 14:40:12; Dark ; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;33531  
 11; 4632.9; 29-JUL-2008 14:42:15; Dark ; 38.0; 176; 23Zet Tau ; 3.02; 22000;occ; 76; 0;33531  
 12; 4778.1; 29-JUL-2008 14:44:40; Dark ; 57.5; 13; 87Alp Tau ; 0.87; 3800;occ; 115; 0;33531  
 13; 4899.8; 29-JUL-2008 14:46:42; Dark ; 43.5; 27; 24Gam Ori ; 1.64; 26000;occ; 87; 0;33531  
 14; 5014.7; 29-JUL-2008 14:48:37; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;33531  
 15; 5159.9; 29-JUL-2008 14:51:02; Dark ; 40.0; 7; 19Bet Ori ; 0.10; 14000;occ; 80; 0;33531  
 16; 5292.9; 29-JUL-2008 14:53:15; Dark ; 37.5; 101; 11Alp Lep ; 2.58; 7000;occ; 75; 0;33531  
 17; 5713.0; 29-JUL-2008 15:00:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33531  
 18; 5983.2; 29-JUL-2008 15:04:45; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;33531  
 19; 6322.2; 29-JUL-2008 15:10:24; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;33531  
 20; 6740.9; 29-JUL-2008 15:17:23; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33531  
 21; 6939.2; 29-JUL-2008 15:20:41; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;33531  
 22; 7129.1; 29-JUL-2008 15:23:51; Dark ; 44.5; 172; Gam Gru ; 3.00; 13100;occ; 89; 0;33531

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1; 1551.3; 29-JUL-2008 15:31:29; Bright; 36.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 72; 0;33532  
 2; 2062.1; 29-JUL-2008 15:40:00; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;33532  
 3; 2144.0; 29-JUL-2008 15:41:22; Bright; 52.0; 168; 17Zet Aql ; 2.99; 11000;occ; 104; 0;33532  
 4; 2568.4; 29-JUL-2008 15:48:26; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;33532  
 5; 2663.2; 29-JUL-2008 15:50:01; Bright; 40.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 81; 0;33532  
 6; 2792.7; 29-JUL-2008 15:52:11; Bright; 37.0; 69; 33Gam Dra ; 2.23; 3800;occ; 74; 0;33532  
 7; 3104.6; 29-JUL-2008 15:57:23; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;33532  
 8; 3441.5; 29-JUL-2008 16:03:00; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33532  
 9; 4200.5; 29-JUL-2008 16:15:39; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;33532  
 10; 4510.0; 29-JUL-2008 16:20:48; Dark ; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;33532  
 11; 4633.1; 29-JUL-2008 16:22:51; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;33532  
 12; 4778.5; 29-JUL-2008 16:25:17; Dark ; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;33532  
 13; 4900.2; 29-JUL-2008 16:27:18; Dark ; 40.5; 27; 24Gam Ori ; 1.64; 26000;occ; 81; 0;33532  
 14; 5015.1; 29-JUL-2008 16:29:13; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;33532  
 15; 5160.3; 29-JUL-2008 16:31:38; Dark ; 43.0; 7; 19Bet Ori ; 0.10; 14000;occ; 86; 0;33532  
 16; 5293.3; 29-JUL-2008 16:33:51; Dark ; 39.5; 101; 11Alp Lep ; 2.58; 7000;occ; 79; 0;33532  
 17; 5713.7; 29-JUL-2008 16:40:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33532  
 18; 5984.3; 29-JUL-2008 16:45:22; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;33532  
 19; 6322.9; 29-JUL-2008 16:51:01; Dark ; 41.5; 9; Alp Eri ; 0.45; 24000;occ; 83; 0;33532  
 20; 6741.5; 29-JUL-2008 16:58:00; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33532  
 21; 6939.8; 29-JUL-2008 17:01:18; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;33532  
 22; 7129.5; 29-JUL-2008 17:04:28; Dark ; 46.0; 172; Gam Gru ; 3.00; 13100;occ; 92; 0;33532

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1;	1093.5;	29-JUL-2008	17:04:28;	Dark	;	46.5;	172;	Gam Gru	;	3.00;	13100;occ;	93;	0;	33533
2;	1551.5;	29-JUL-2008	17:12:06;	Bright;	;	36.5;	155;	41Pi Sgr	;	2.90;	6600;occ;	73;	0;	33533
3;	2062.0;	29-JUL-2008	17:20:36;	Bright;	;	40.0;	11;	53Alp Aql	;	0.76;	8000;occ;	80;	0;	33533
4;	2143.8;	29-JUL-2008	17:21:58;	Bright;	;	34.0;	168;	17Zet Aql	;	2.99;	11000;occ;	68;	0;	33533
5;	2568.4;	29-JUL-2008	17:29:02;	Bright;	;	38.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	76;	0;	33533
6;	2662.8;	29-JUL-2008	17:30:37;	Bright;	;	42.0;	66;	37Gam Cyg	;	2.21;	5900;occ;	84;	0;	33533
7;	2792.8;	29-JUL-2008	17:32:47;	Bright;	;	37.0;	69;	33Gam Dra	;	2.23;	3800;occ;	74;	0;	33533
8;	3104.3;	29-JUL-2008	17:37:58;	Bright;	;	40.5;	89;	5Alp Cep	;	2.45;	8000;occ;	81;	0;	33533
9;	3441.6;	29-JUL-2008	17:43:36;	Bright;	;	36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	33533
10;	4200.5;	29-JUL-2008	17:56:15;	Bright;	;	41.5;	6;	13Alp Aur	;	0.08;	3400;occ;	83;	0;	33533
11;	4510.1;	29-JUL-2008	18:01:24;	Dark	;	43.0;	28;	12Bet Tau	;	1.65;	15200;occ;	86;	0;	33533
12;	4633.4;	29-JUL-2008	18:03:27;	Dark	;	38.5;	176;	23Zet Tau	;	3.02;	22000;occ;	77;	0;	33533
13;	4778.8;	29-JUL-2008	18:05:53;	Dark	;	44.0;	13;	87Alp Tau	;	0.87;	3800;occ;	88;	0;	33533
14;	4900.5;	29-JUL-2008	18:07:55;	Dark	;	42.0;	27;	24Gam Ori	;	1.64;	26000;occ;	84;	0;	33533
15;	5015.4;	29-JUL-2008	18:09:49;	Dark	;	39.5;	30;	46Eps Ori	;	1.69;	30000;occ;	79;	0;	33533
16;	5160.7;	29-JUL-2008	18:12:15;	Dark	;	39.5;	7;	19Bet Ori	;	0.10;	14000;occ;	79;	0;	33533
17;	5293.6;	29-JUL-2008	18:14:28;	Dark	;	38.5;	101;	11Alp Lep	;	2.58;	7000;occ;	77;	0;	33533
18;	5714.4;	29-JUL-2008	18:21:28;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	33533
19;	5985.2;	29-JUL-2008	18:25:59;	Dark	;	48.0;	157;	The1Eri	;	2.91;	9300;occ;	96;	0;	33533
20;	6323.6;	29-JUL-2008	18:31:38;	Dark	;	45.0;	9;	Alp Eri	;	0.45;	24000;occ;	90;	0;	33533
21;	6741.8;	29-JUL-2008	18:38:36;	Dark	;	39.5;	148;	Alp Tuc	;	2.88;	4100;occ;	79;	0;	33533
22;	6940.4;	29-JUL-2008	18:41:54;	Dark	;	49.5;	31;	Alp Gru	;	1.73;	15200;occ;	99;	0;	33533

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1;	1094.0;	29-JUL-2008	18:45:04;	Dark	;	46.0;	172;	Gam Gru	;	3.00;	13100;occ;	92;	0;	33534
2;	1551.6;	29-JUL-2008	18:52:42;	Bright;	;	37.5;	155;	41Pi Sgr	;	2.90;	6600;occ;	75;	0;	33534
3;	2061.9;	29-JUL-2008	19:01:12;	Bright;	;	37.5;	11;	53Alp Aql	;	0.76;	8000;occ;	75;	0;	33534
4;	2143.9;	29-JUL-2008	19:02:34;	Bright;	;	35.5;	168;	17Zet Aql	;	2.99;	11000;occ;	71;	0;	33534
5;	2568.5;	29-JUL-2008	19:09:39;	Bright;	;	37.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	74;	0;	33534
6;	2662.3;	29-JUL-2008	19:11:12;	Bright;	;	41.5;	66;	37Gam Cyg	;	2.21;	5900;occ;	83;	0;	33534
7;	2793.0;	29-JUL-2008	19:13:23;	Bright;	;	25.0;	69;	33Gam Dra	;	2.23;	3800;occ;	50;	0;	33534
8;	3103.7;	29-JUL-2008	19:18:34;	Bright;	;	40.5;	89;	5Alp Cep	;	2.45;	8000;occ;	81;	0;	33534
9;	3441.5;	29-JUL-2008	19:24:12;	Bright;	;	36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	33534
10;	4200.4;	29-JUL-2008	19:36:50;	Bright;	;	42.5;	6;	13Alp Aur	;	0.08;	3400;occ;	85;	0;	33534
11;	4510.1;	29-JUL-2008	19:42:00;	Dark	;	48.0;	28;	12Bet Tau	;	1.65;	15200;occ;	96;	0;	33534
12;	4633.5;	29-JUL-2008	19:44:04;	Dark	;	37.5;	176;	23Zet Tau	;	3.02;	22000;occ;	75;	0;	33534
13;	4779.2;	29-JUL-2008	19:46:29;	Dark	;	48.5;	13;	87Alp Tau	;	0.87;	3800;occ;	97;	0;	33534
14;	4900.7;	29-JUL-2008	19:48:31;	Dark	;	39.5;	27;	24Gam Ori	;	1.64;	26000;occ;	79;	0;	33534
15;	5015.7;	29-JUL-2008	19:50:26;	Dark	;	37.0;	30;	46Eps Ori	;	1.69;	30000;occ;	74;	0;	33534
16;	5161.1;	29-JUL-2008	19:52:51;	Dark	;	39.0;	7;	19Bet Ori	;	0.10;	14000;occ;	78;	0;	33534
17;	5293.9;	29-JUL-2008	19:55:04;	Dark	;	42.0;	101;	11Alp Lep	;	2.58;	7000;occ;	84;	0;	33534
18;	5715.0;	29-JUL-2008	20:02:05;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	33534
19;	5986.0;	29-JUL-2008	20:06:36;	Dark	;	46.5;	157;	The1Eri	;	2.91;	9300;occ;	93;	0;	33534
20;	6324.2;	29-JUL-2008	20:12:14;	Dark	;	53.5;	9;	Alp Eri	;	0.45;	24000;occ;	107;	0;	33534
21;	6742.2;	29-JUL-2008	20:19:12;	Dark	;	40.5;	148;	Alp Tuc	;	2.88;	4100;occ;	81;	0;	33534
22;	6940.8;	29-JUL-2008	20:22:31;	Dark	;	44.0;	31;	Alp Gru	;	1.73;	15200;occ;	88;	0;	33534

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1;	-741.8;	29-JUL-2008	21:35:40;	Dark	;	42.5;	101;	11Alp Lep	;	2.58;	7000;occ;	85;	0;	33535
2;	-320.3;	29-JUL-2008	21:42:42;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	33535
3;	-49.0;	29-JUL-2008	21:47:13;	Dark	;	46.5;	157;	The1Eri	;	2.91;	9300;occ;	93;	0;	33535
4;	288.9;	29-JUL-2008	21:52:51;	Dark	;	45.5;	9;	Alp Eri	;	0.45;	24000;occ;	91;	0;	33536
5;	706.7;	29-JUL-2008	21:59:49;	Dark	;	39.0;	148;	Alp Tuc	;	2.88;	4100;occ;	78;	0;	33536
6;	905.4;	29-JUL-2008	22:03:07;	Dark	;	51.5;	31;	Alp Gru	;	1.73;	15200;occ;	103;	0;	33536
7;	1095.1;	29-JUL-2008	22:06:17;	Dark	;	45.5;	172;	Gam Gru	;	3.00;	13100;occ;	91;	0;	33536
8;	1552.0;	29-JUL-2008	22:13:54;	Bright;	;	36.5;	155;	41Pi Sgr	;	2.90;	6600;occ;	73;	0;	33536
9;	2061.6;	29-JUL-2008	22:22:24;	Bright;	;	37.5;	11;	53Alp Aql	;	0.76;	8000;occ;	75;	0;	33536
10;	2143.9;	29-JUL-2008	22:23:46;	Bright;	;	35.0;	168;	17Zet Aql	;	2.99;	11000;occ;	70;	0;	33536
11;	2568.5;	29-JUL-2008	22:30:50;	Bright;	;	36.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	72;	0;	33536
12;	2661.4;	29-JUL-2008	22:32:23;	Bright;	;	39.0;	66;	37Gam Cyg	;	2.21;	5900;occ;	78;	0;	33536
13;	3102.7;	29-JUL-2008	22:39:45;	Bright;	;	39.0;	89;	5Alp Cep	;	2.45;	8000;occ;	78;	0;	33536
14;	3441.4;	29-JUL-2008	22:45:23;	Bright;	;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	33536
15;	4200.4;	29-JUL-2008	22:58:02;	Bright;	;	55.0;	6;	13Alp Aur	;	0.08;	3400;occ;	110;	0;	33536
16;	4510.4;	29-JUL-2008	23:03:12;	Dark	;	39.5;	28;	12Bet Tau	;	1.65;	15200;occ;	79;	0;	33536
17;	4633.9;	29-JUL-2008	23:05:16;	Dark	;	38.5;	176;	23Zet Tau	;	3.02;	22000;occ;	77;	0;	33536
18;	4779.8;	29-JUL-2008	23:07:42;	Dark	;	54.5;	13;	87Alp Tau	;	0.87;	3800;occ;	109;	0;	33536
19;	4901.3;	29-JUL-2008	23:09:43;	Dark	;	38.5;	27;	24Gam Ori	;	1.64;	26000;occ;	77;	0;	33536
20;	5016.2;	29-JUL-2008	23:11:38;	Dark	;	38.5;	30;	46Eps Ori	;	1.69;	30000;occ;	77;	0;	33536
21;	5161.7;	29-JUL-2008	23:14:04;	Dark	;	48.0;	7;	19Bet Ori	;	0.10;	14000;occ;	96;	0;	33536



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22; 5294.4; 29-JUL-2008 23:16:16; Dark ; 21.5; 101; 11Alp Lep ; 2.58; 7000;occ; 43; 0;33536
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1; -741.4; 29-JUL-2008 23:16:16; Dark ; 40.5; 101; 11Alp Lep ; 2.58; 7000;occ; 81; 0;33536
2; -319.6; 29-JUL-2008 23:23:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33536
3; -48.0; 29-JUL-2008 23:27:50; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;33536
4; 289.6; 29-JUL-2008 23:33:27; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;33537
5; 707.1; 29-JUL-2008 23:40:25; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;33537
6; 905.9; 29-JUL-2008 23:43:44; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;33537
7; 1095.5; 29-JUL-2008 23:46:53; Dark ; 45.0; 172; Gam Gru ; 3.00; 13100;occ; 90; 0;33537
8; 1552.2; 29-JUL-2008 23:54:30; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;33537
9; 2061.5; 30-JUL-2008 00:02:59; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;33537
10; 2144.0; 30-JUL-2008 00:04:22; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;33537
11; 2568.5; 30-JUL-2008 00:11:26; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;33537
12; 2660.9; 30-JUL-2008 00:12:59; Bright; 41.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 83; 0;33537
13; 3102.2; 30-JUL-2008 00:20:20; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;33537
14; 3441.3; 30-JUL-2008 00:25:59; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33537
15; 4200.5; 30-JUL-2008 00:38:38; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;33537
16; 4510.6; 30-JUL-2008 00:43:48; Dark ; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;33537
17; 4634.1; 30-JUL-2008 00:45:52; Dark ; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;33537
18; 4780.2; 30-JUL-2008 00:48:18; Dark ; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;33537
19; 4901.6; 30-JUL-2008 00:50:19; Dark ; 41.0; 27; 24Gam Ori ; 1.64; 26000;occ; 82; 0;33537
20; 5016.5; 30-JUL-2008 00:52:14; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;33537
21; 5162.1; 30-JUL-2008 00:54:40; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;33537
22; 5294.8; 30-JUL-2008 00:56:53; Dark ; 41.0; 101; 11Alp Lep ; 2.58; 7000;occ; 82; 0;33537
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1; -711.1; 30-JUL-2008 00:57:23; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 60;33537
2; -319.0; 30-JUL-2008 01:03:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33537
3; -47.2; 30-JUL-2008 01:08:26; Dark ; 46.5; 157; The1Eri ; 2.91; 9300;occ; 93; 0;33537
4; 290.3; 30-JUL-2008 01:14:04; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;33538
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