

# GOMOS Daily Report 08-JUN-2007

## Level 0 and Level 1 products

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## [Level 2 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	10JUN2007 05:40:24
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (08JUN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (09JUN2007 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)

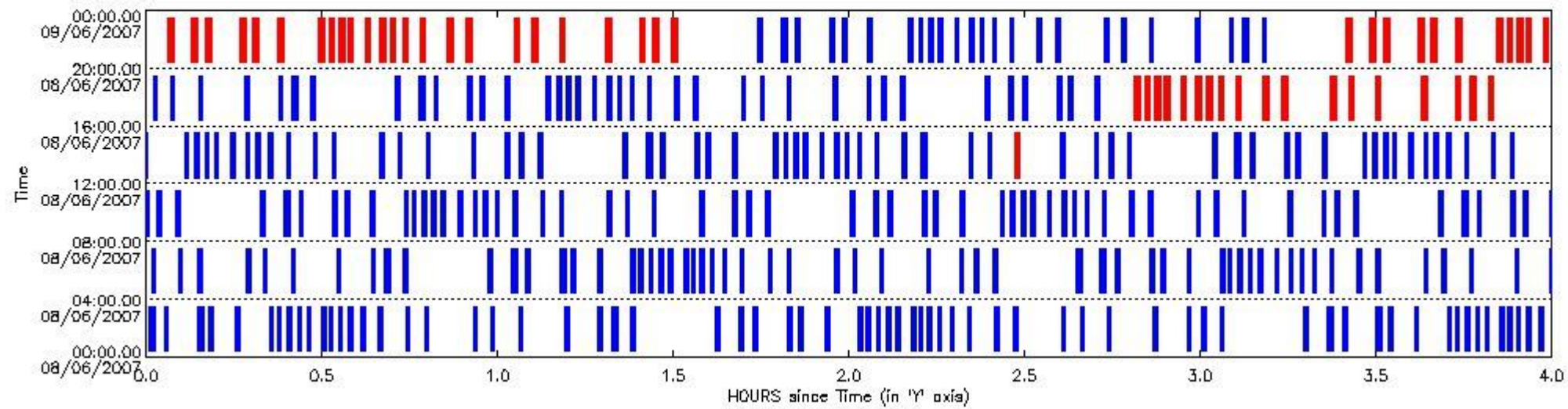
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
08-JUN-2007 14:28:10	1AlpUMi	49	27562
08-JUN-2007 18:48:47	AlpAra	147	27565
08-JUN-2007 18:50:30	TheSco	40	27565
08-JUN-2007 18:52:16	35LamSco	25	27565
08-JUN-2007 18:53:51	26EpsSco	75	27565
08-JUN-2007 18:56:43	20SigSco	156	27565
08-JUN-2007 18:59:13	35EtaOph	86	27565
08-JUN-2007 19:01:00	13ZetOph	98	27565
08-JUN-2007 19:03:07	1DelOph	120	27565
08-JUN-2007 19:06:08	24AlpSer	102	27565
08-JUN-2007 19:10:44	27BetHer	127	27565
08-JUN-2007 19:13:57	40ZetHer	133	27565
08-JUN-2007 19:22:10	14EtaDra	119	27565
08-JUN-2007 19:25:17	7BetUMi	60	27565
08-JUN-2007 19:29:58	1AlpUMi	49	27565

08-JUN-2007 19:37:48	27GamCas	76	27565
08-JUN-2007 19:43:36	57Gam1And	73	27565
08-JUN-2007 19:45:55	43BetAnd	53	27565
08-JUN-2007 19:49:09	13AlpAri	50	27565
08-JUN-2007 20:03:37	16BetCet	52	27565
08-JUN-2007 20:07:36	DSA1067	0	27565
08-JUN-2007 20:10:09	AlpPhe	84	27565
08-JUN-2007 20:15:59	BetGru	63	27566
08-JUN-2007 20:17:58	AlpGru	31	27566
08-JUN-2007 20:22:26	AlpPav	45	27566
08-JUN-2007 20:29:23	AlpAra	147	27566
08-JUN-2007 20:31:07	TheSco	40	27566
08-JUN-2007 20:32:52	35LamSco	25	27566
08-JUN-2007 20:34:27	26EpsSco	75	27566
08-JUN-2007 20:37:19	20SigSco	156	27566
08-JUN-2007 20:39:49	35EtaOph	86	27566
08-JUN-2007 20:41:36	13ZetOph	98	27566
08-JUN-2007 20:43:43	1DelOph	120	27566
08-JUN-2007 20:46:44	24AlpSer	102	27566
08-JUN-2007 20:51:20	27BetHer	127	27566
08-JUN-2007 20:54:33	40ZetHer	133	27566
08-JUN-2007 21:02:46	14EtaDra	119	27566
08-JUN-2007 21:05:53	7BetUMi	60	27566
08-JUN-2007 21:10:34	1AlpUMi	49	27566
08-JUN-2007 21:18:24	27GamCas	76	27566
08-JUN-2007 21:24:12	57Gam1And	73	27566
08-JUN-2007 21:26:31	43BetAnd	53	27566
08-JUN-2007 21:29:45	13AlpAri	50	27566
08-JUN-2007 23:24:50	16BetCet	52	27567
08-JUN-2007 23:28:49	DSA1067	0	27567
08-JUN-2007 23:31:23	AlpPhe	84	27567
08-JUN-2007 23:37:12	BetGru	63	27568
08-JUN-2007 23:39:12	AlpGru	31	27568
08-JUN-2007 23:43:39	AlpPav	45	27568
08-JUN-2007 23:50:36	AlpAra	147	27568
08-JUN-2007 23:52:19	TheSco	40	27568
08-JUN-2007 23:54:04	35LamSco	25	27568
08-JUN-2007 23:55:40	26EpsSco	75	27568
08-JUN-2007 23:58:32	20SigSco	156	27568

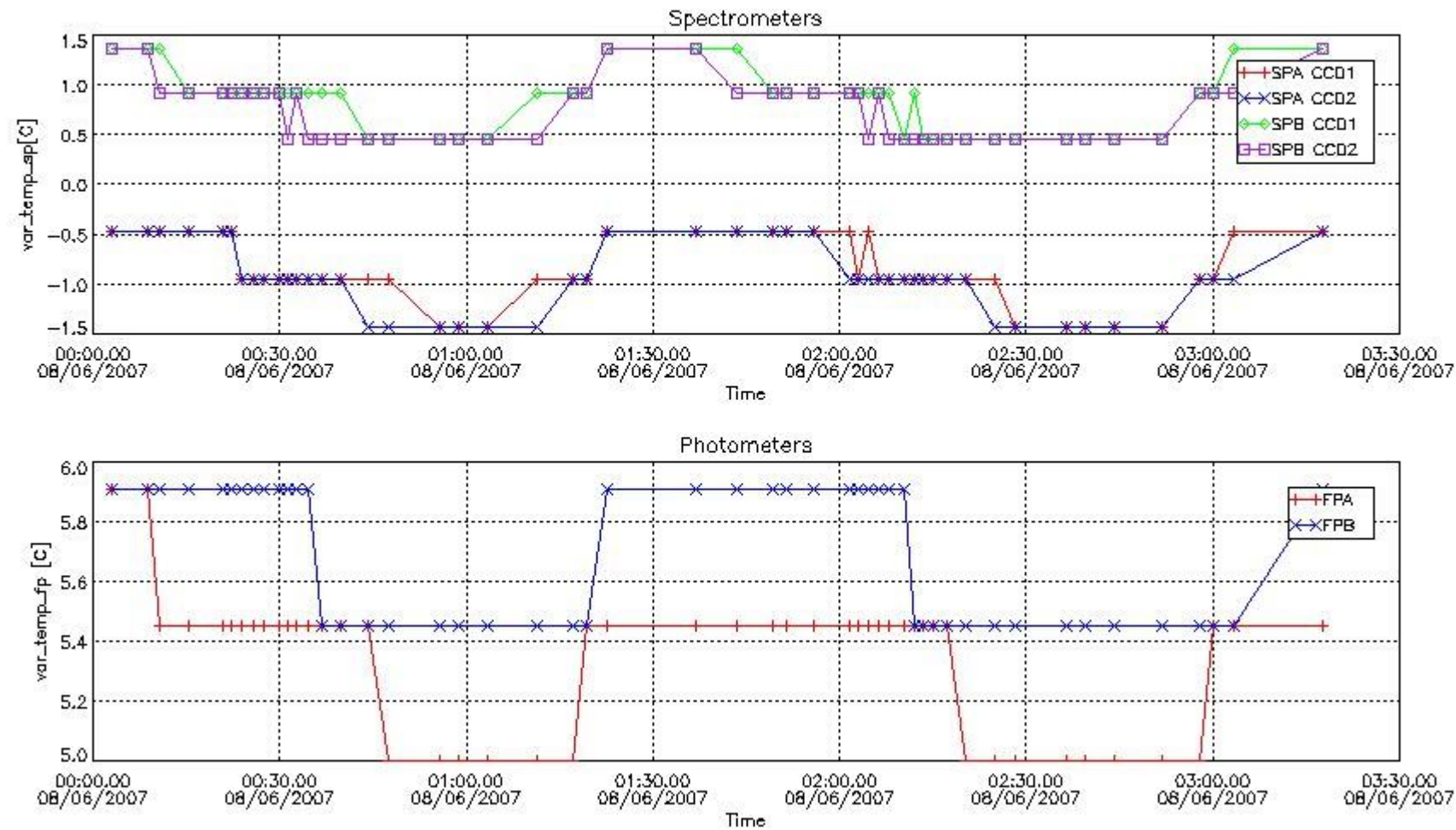
#### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20070608_000258_000000482058_00446_27553_8312.N1	08-JUN-2007 00:02:58	Dark	48.000	84	Alp Phe	2.3970	4500.0	96	27553	No
2	GOM_TRA_1PNPDE20070608_000844_000000632058_00446_27554_8313.N1	08-JUN-2007 00:08:44	Dark	63.000	63	Bet Gru	2.1500	2800.0	126	27554	No
3	GOM_TRA_1PNPDE20070608_001043_000000482058_00446_27554_8314.N1	08-JUN-2007 00:10:43	Dark	47.500	31	Alp Gru	1.7340	15200.	95	27554	No
4	GOM_TRA_1PNPDE20070608_001515_000000452058_00446_27554_8315.N1	08-JUN-2007 00:15:15	Straylight	45.000	45	Alp Pav	1.9400	26000.	90	27554	No
5	GOM_TRA_1PNPDE20070608_002057_000000412058_00446_27554_8316.N1	08-JUN-2007 00:20:57	Straylight	41.000	141	Bet Ara	2.8400	4600.0	82	27554	No
6	GOM_TRA_1PNPDE20070608_002216_000000402058_00446_27554_8317.N1	08-JUN-2007 00:22:16	Straylight	40.000	147	Alp Ara	2.8770	26000.	80	27554	No
7	GOM_TRA_1PNPDE20070608_002359_000000422058_00446_27554_8318.N1	08-JUN-2007 00:23:59	Straylight	42.000	40	The Sco	1.8590	7100.0	84	27554	No
8	GOM_TRA_1PNPDE20070608_002545_000000442058_00446_27554_8319.N1	08-JUN-2007 00:25:45	Twilight	44.000	25	35Lam Sco	1.6200	28000.	88	27554	No
9	GOM_TRA_1PNPDE20070608_002721_000000452058_00446_27554_8320.N1	08-JUN-2007 00:27:21	Twilight	44.500	75	26Eps Sco	2.2910	4250.0	89	27554	No
10	GOM_TRA_1PNPDE20070608_002954_000000492058_00446_27554_8321.N1	08-JUN-2007 00:29:54	Bright	48.500	16	21Alp Sco	1.0200	3000.0	97	27554	No
11	GOM_TRA_1PNPDE20070608_003118_000000362058_00446_27554_8322.N1	08-JUN-2007 00:31:18	Bright	36.000	80	7Del Sco	2.3160	30000.	72	27554	No
12	GOM_TRA_1PNPDE20070608_003245_000000422058_00446_27554_8323.N1	08-JUN-2007 00:32:45	Bright	42.000	86	35Eta Oph	2.4300	10200.	84	27554	No
13	GOM_TRA_1PNPDE20070608_003432_000000392058_00446_27554_8324.N1	08-JUN-2007 00:34:32	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	27554	No
14	GOM_TRA_1PNPDE20070608_003640_000000382058_00446_27554_8325.N1	08-JUN-2007 00:36:40	Bright	37.500	120	1Del Oph	2.7340	3200.0	75	27554	No
15	GOM_TRA_1PNPDE20070608_003940_000000362058_00446_27554_8326.N1	08-JUN-2007 00:39:40	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	27554	No

16	GOM_TRA_1PNPDE20070608_004419_000000392058_00446_27554_8327.N1	08-JUN-2007 00:44:19	Bright	38.500	127	27Bet Her	2.7810	4700.0	77	27554	No
17	GOM_TRA_1PNPDE20070608_004734_000000402058_00446_27554_8328.N1	08-JUN-2007 00:47:34	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	27554	No
18	GOM_TRA_1PNPDE20070608_005546_000000352058_00446_27554_8329.N1	08-JUN-2007 00:55:46	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	27554	No
19	GOM_TRA_1PNPDE20070608_005850_000000372058_00446_27554_8330.N1	08-JUN-2007 00:58:50	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	27554	No
20	GOM_TRA_1PNPDE20070608_010331_000000362058_00446_27554_8331.N1	08-JUN-2007 01:03:31	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	27554	No
21	GOM_TRA_1PNPDE20070608_011122_000000572058_00446_27554_8332.N1	08-JUN-2007 01:11:22	Bright	57.000	76	27Gam Cas	2.3000	30000.	114	27554	No
22	GOM_TRA_1PNPDE20070608_011708_000000452058_00446_27554_8333.N1	08-JUN-2007 01:17:08	Bright	45.000	73	57Gam1And	2.2600	13100.	90	27554	No
23	GOM_TRA_1PNPDE20070608_011927_000000582058_00446_27554_8334.N1	08-JUN-2007 01:19:27	Bright	58.000	53	43Bet And	2.0480	3300.0	116	27554	No
24	GOM_TRA_1PNPDE20070608_012240_000000452058_00446_27554_8335.N1	08-JUN-2007 01:22:40	Twilight	44.500	50	13Alp Ari	2.0070	4250.0	89	27554	No
25	GOM_TRA_1PNPDE20070608_013701_000000502058_00446_27554_8464.N1	08-JUN-2007 01:37:01	Dark	50.000	52	16Bet Cet	2.0370	4500.0	100	27554	No
26	GOM_TRA_1PNPDE20070608_014335_000000472058_00446_27554_8465.N1	08-JUN-2007 01:43:35	Dark	46.500	84	Alp Phe	2.3970	4500.0	93	27554	No
27	GOM_TRA_1PNPDE20070608_014921_000000612058_00447_27555_8466.N1	08-JUN-2007 01:49:21	Dark	61.000	63	Bet Gru	2.1500	2800.0	122	27555	No
28	GOM_TRA_1PNPDE20070608_015120_000000482058_00447_27555_8467.N1	08-JUN-2007 01:51:20	Dark	48.000	31	Alp Gru	1.7340	15200.	96	27555	No
29	GOM_TRA_1PNPDE20070608_015552_000000442058_00447_27555_8468.N1	08-JUN-2007 01:55:52	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	27555	No
30	GOM_TRA_1PNPDE20070608_020134_000000412058_00447_27555_8469.N1	08-JUN-2007 02:01:34	Straylight	41.000	141	Bet Ara	2.8400	4600.0	82	27555	No
31	GOM_TRA_1PNPDE20070608_020252_000000422058_00447_27555_8470.N1	08-JUN-2007 02:02:52	Straylight	42.000	147	Alp Ara	2.8770	26000.	84	27555	No
32	GOM_TRA_1PNPDE20070608_020435_000000452058_00447_27555_8471.N1	08-JUN-2007 02:04:35	Straylight	45.000	40	The Sco	1.8590	7100.0	90	27555	No
33	GOM_TRA_1PNPDE20070608_020621_000000452058_00447_27555_8472.N1	08-JUN-2007 02:06:21	Twilight	44.500	25	35Lam Sco	1.6200	28000.	89	27555	No
34	GOM_TRA_1PNPDE20070608_020757_000000412058_00447_27555_8473.N1	08-JUN-2007 02:07:57	Twilight	41.000	75	26Eps Sco	2.2910	4250.0	82	27555	No
35	GOM_TRA_1PNPDE20070608_021030_000000542058_00447_27555_8474.N1	08-JUN-2007 02:10:30	Bright	54.000	16	21Alp Sco	1.0200	3000.0	108	27555	No
36	GOM_TRA_1PNPDE20070608_021154_000000382058_00447_27555_8475.N1	08-JUN-2007 02:11:54	Bright	38.000	80	7Del Sco	2.3160	30000.	76	27555	No
37	GOM_TRA_1PNPDE20070608_021321_000000412058_00447_27555_8476.N1	08-JUN-2007 02:13:21	Bright	41.000	86	35Eta Oph	2.4300	10200.	82	27555	No
38	GOM_TRA_1PNPDE20070608_021508_000000392058_00447_27555_8477.N1	08-JUN-2007 02:15:08	Bright	39.000	98	13Zet Oph	2.5710	30000.	78	27555	No
39	GOM_TRA_1PNPDE20070608_021716_000000382058_00447_27555_8478.N1	08-JUN-2007 02:17:16	Bright	37.500	120	1Del Oph	2.7340	3200.0	75	27555	No
40	GOM_TRA_1PNPDE20070608_022016_000000352058_00447_27555_8479.N1	08-JUN-2007 02:20:16	Bright	35.000	102	24Alp Ser	2.6000	4250.0	70	27555	No
41	GOM_TRA_1PNPDE20070608_022455_000000402058_00447_27555_8480.N1	08-JUN-2007 02:24:55	Bright	40.000	127	27Bet Her	2.7810	4700.0	80	27555	No
42	GOM_TRA_1PNPDE20070608_022809_000000382058_00447_27555_8481.N1	08-JUN-2007 02:28:09	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	27555	No
43	GOM_TRA_1PNPDE20070608_023621_000000362058_00447_27555_8482.N1	08-JUN-2007 02:36:21	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	27555	No
44	GOM_TRA_1PNPDE20070608_023925_000000372058_00447_27555_8483.N1	08-JUN-2007 02:39:25	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	27555	No
45	GOM_TRA_1PNPDE20070608_024407_000000342058_00447_27555_8484.N1	08-JUN-2007 02:44:07	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	27555	No
46	GOM_TRA_1PNPDE20070608_025158_000000362058_00447_27555_8627.N1	08-JUN-2007 02:51:58	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	27555	No
47	GOM_TRA_1PNPDE20070608_025744_000000372058_00447_27555_8628.N1	08-JUN-2007 02:57:44	Bright	36.500	73	57Gam1And	2.2600	13100.	73	27555	No
48	GOM_TRA_1PNPDE20070608_030003_000000542058_00447_27555_8629.N1	08-JUN-2007 03:00:03	Bright	53.500	53	43Bet And	2.0480	3300.0	107	27555	No
49	GOM_TRA_1PNPDE20070608_030316_000000452058_00447_27555_8630.N1	08-JUN-2007 03:03:16	Twilight	44.500	50	13Alp Ari	2.0070	4250.0	89	27555	No
50	GOM_TRA_1PNPDE20070608_031738_000000502058_00447_27555_8631.N1	08-JUN-2007 03:17:38	Dark	50.000	52	16Bet Cet	2.0370	4500.0	100	27555	No

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





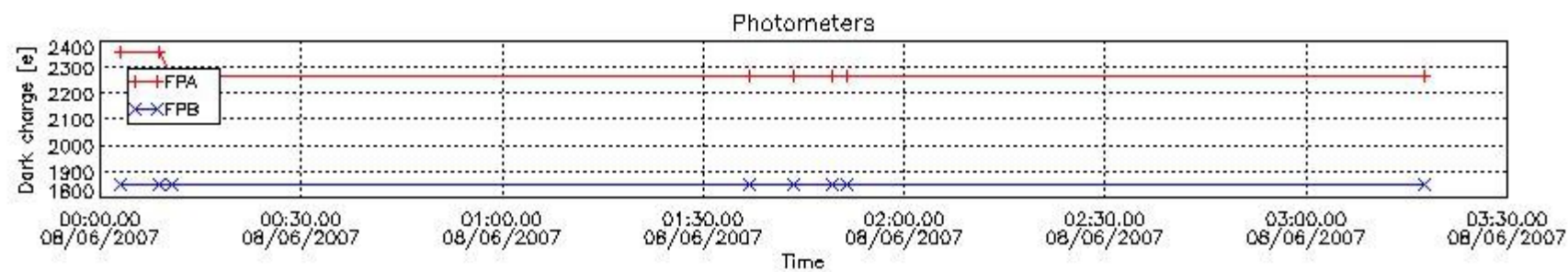
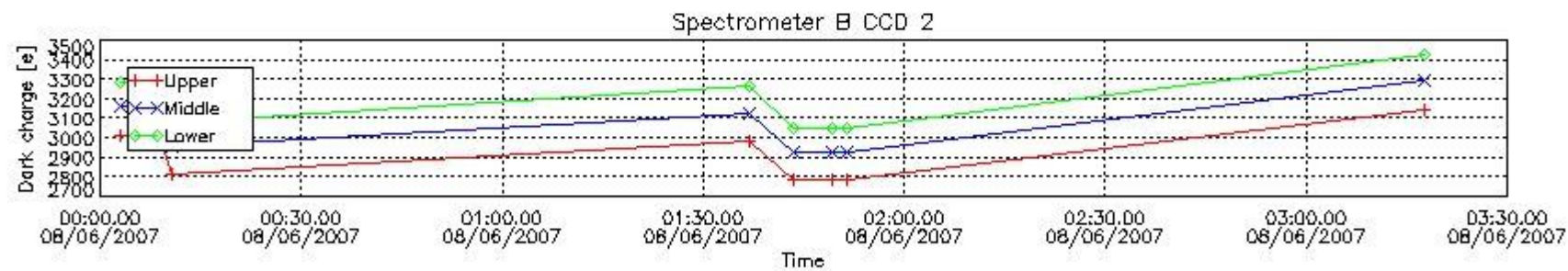
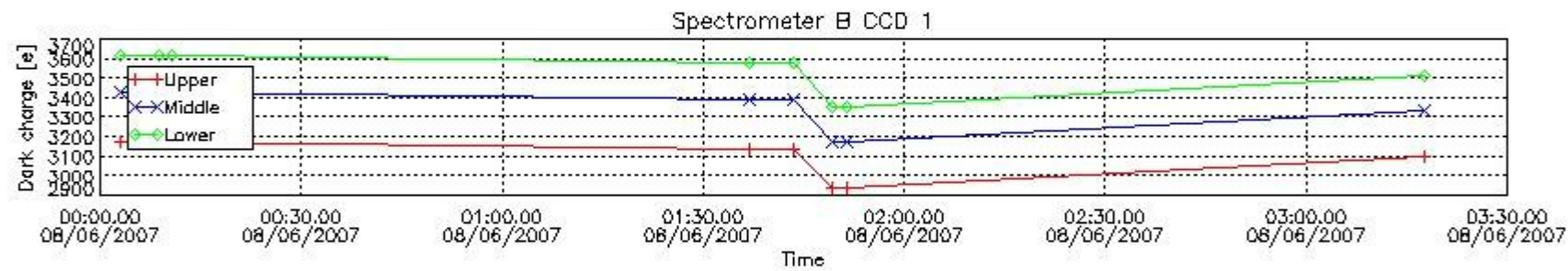
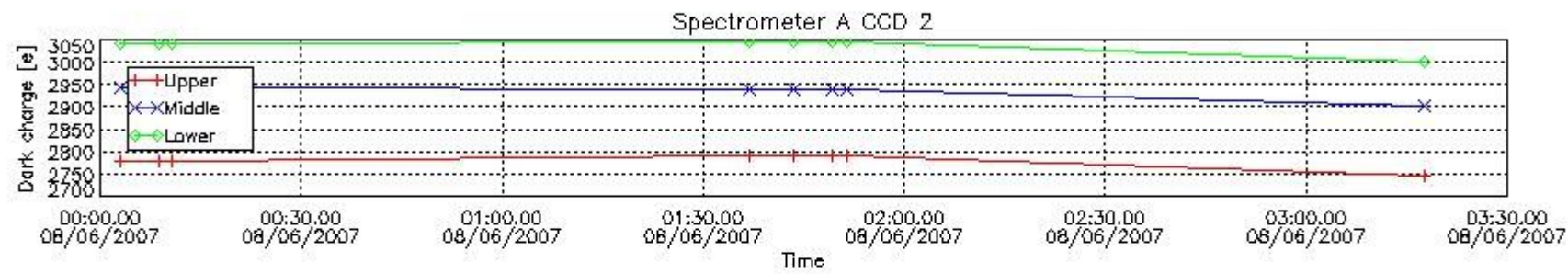
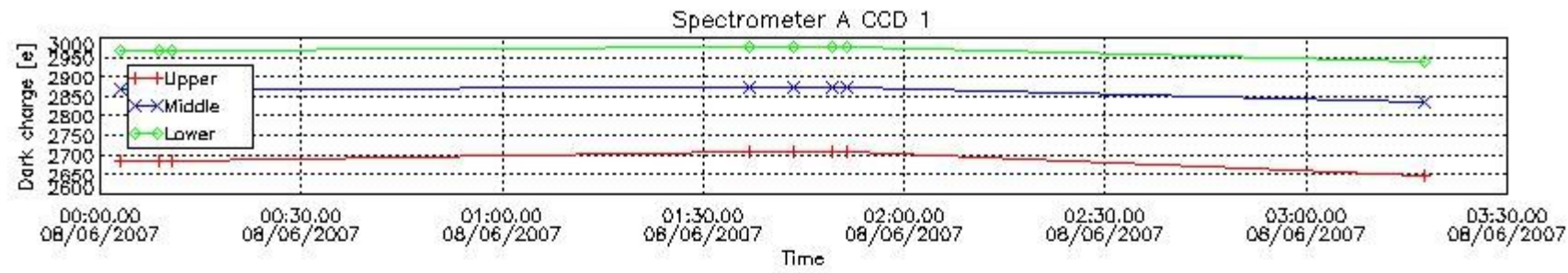
#### 4. Overview of dark signal processing per product

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



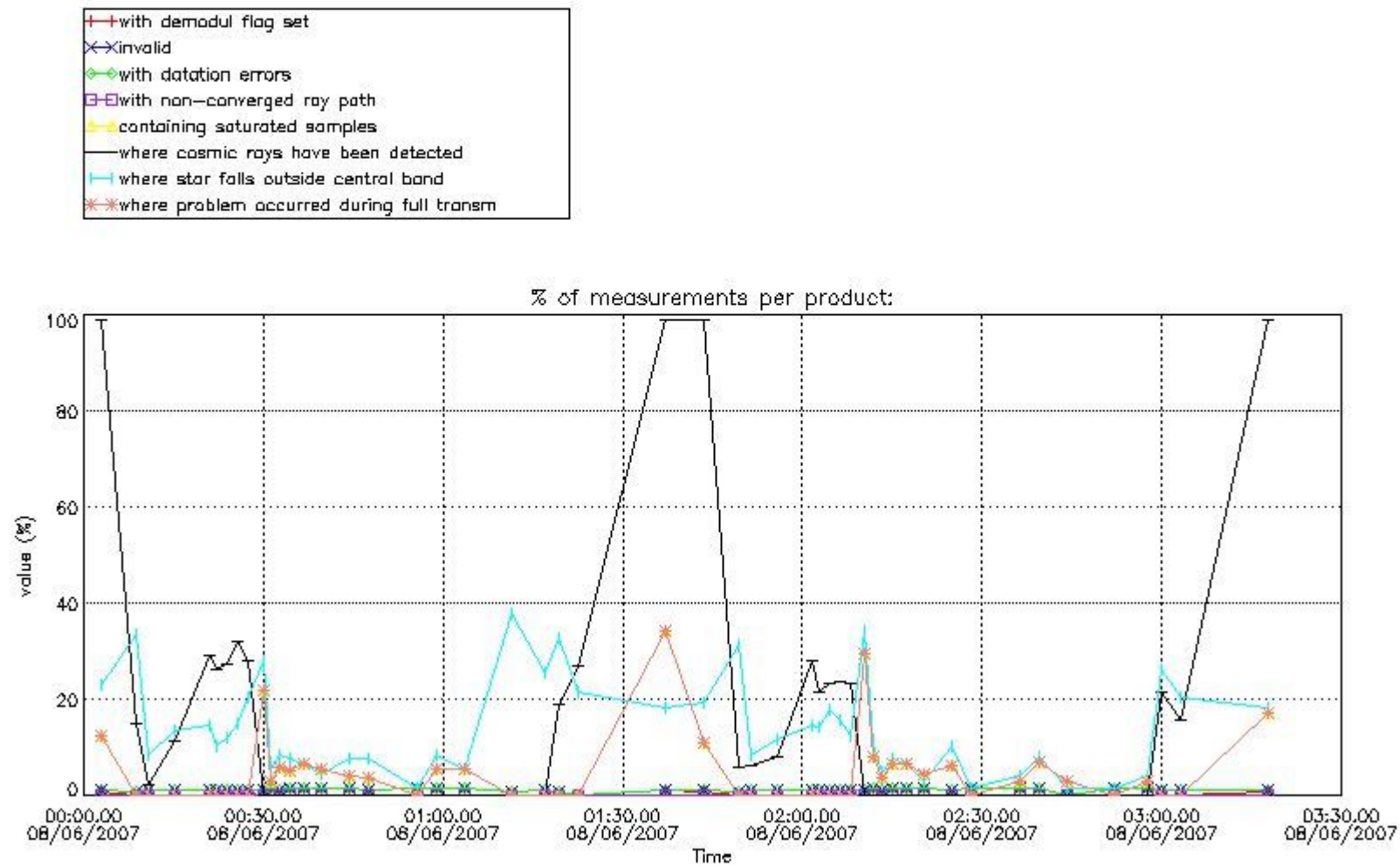
## 5. Demodulation flag and quality information monitoring

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:

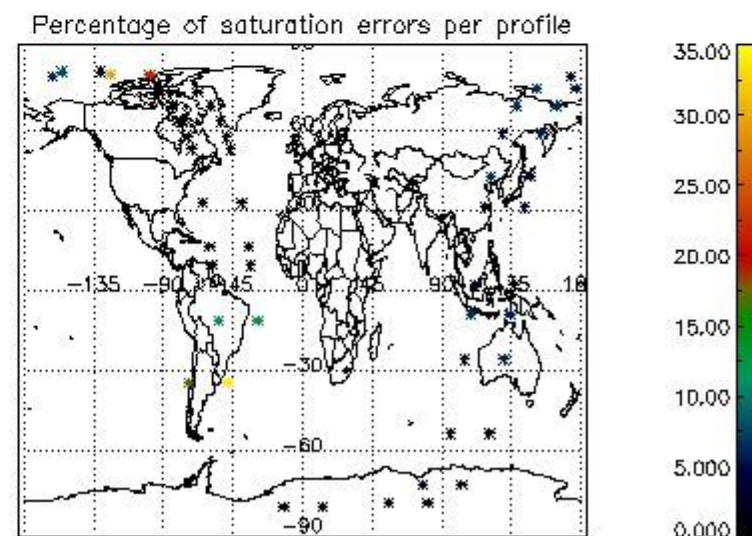
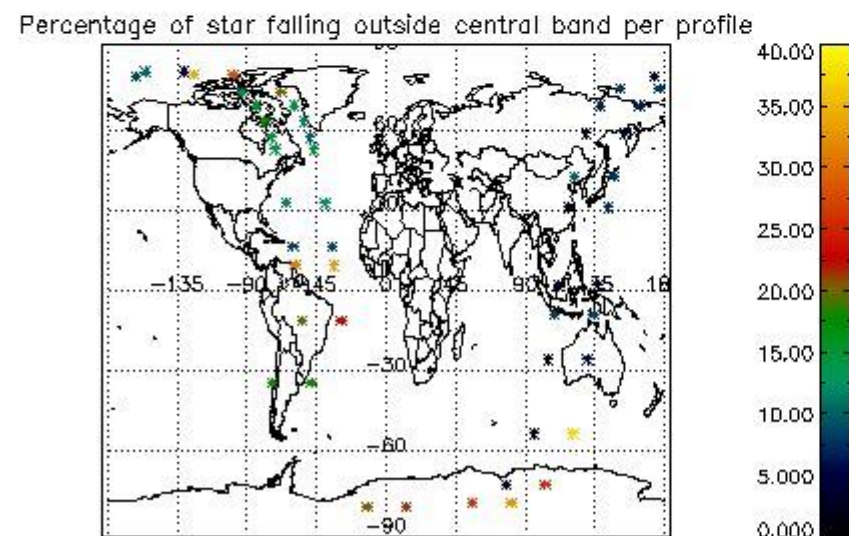
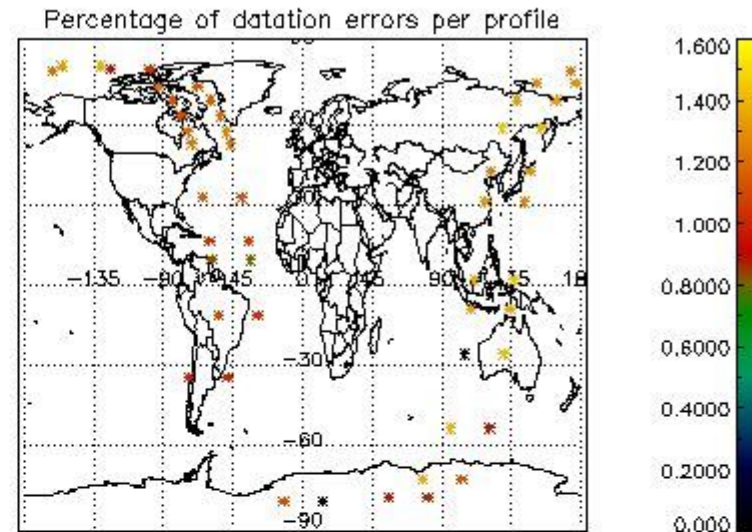
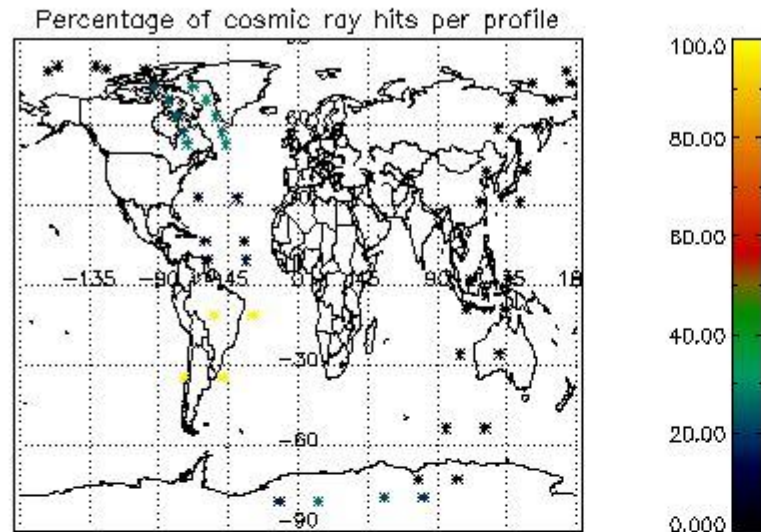
At least one measurement with demodulation flag set:	24.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 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)

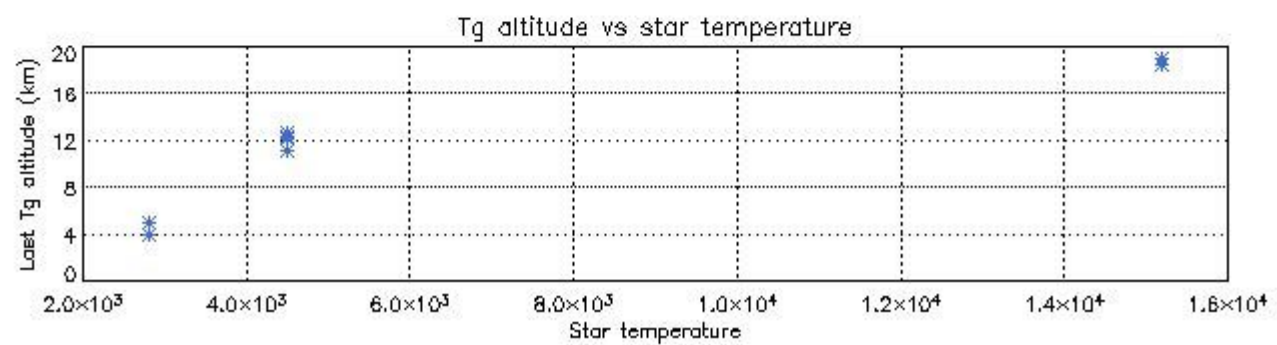
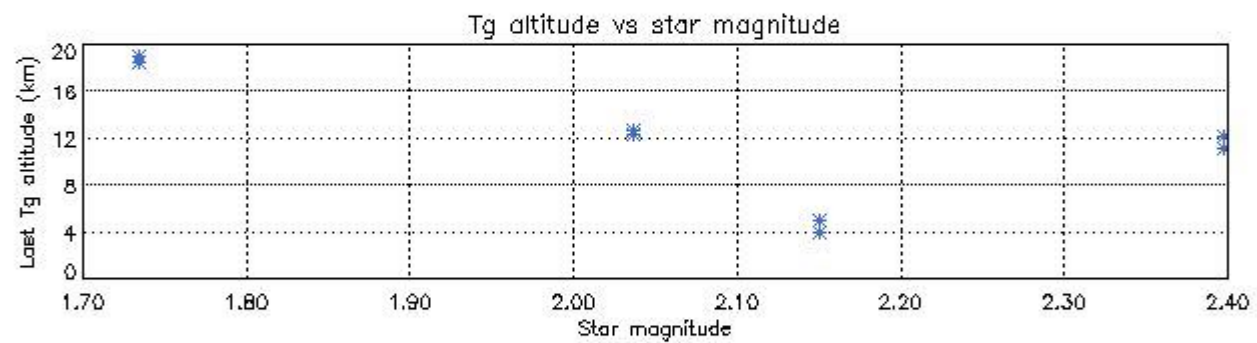
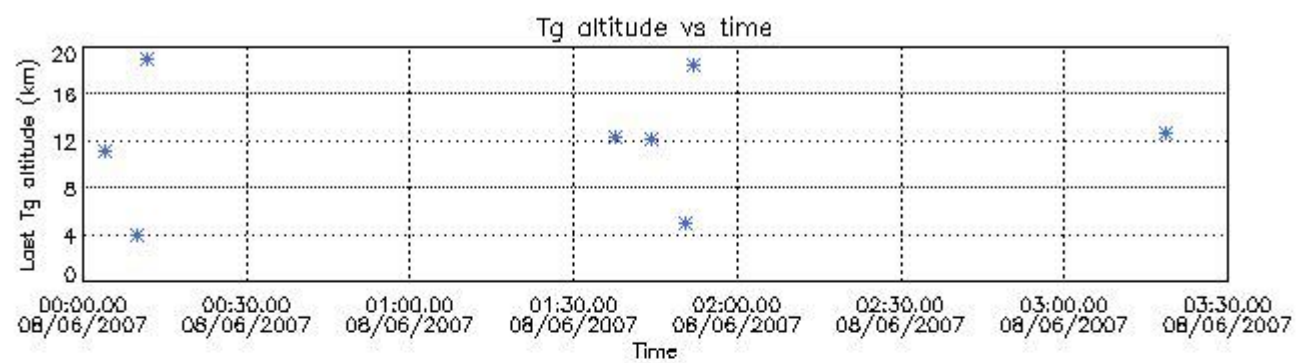
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.808	18.520	10.895
St. deviation:	5.4126	6.7780	0.16630
Maximum:	18.969	27.723	11.012
Minimum:	3.8991	3.6347	10.777
Number of data:	8.0000	28.000	2.0000

### 6.2 Plot for DARK limb products

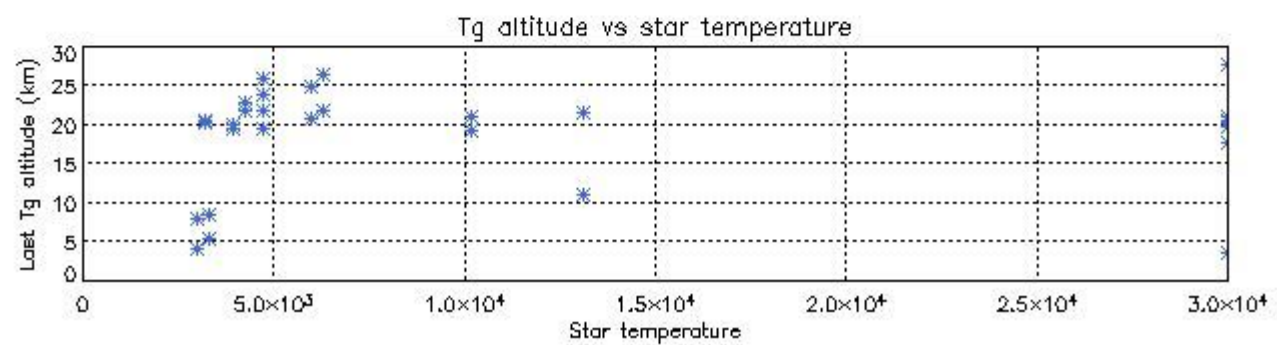
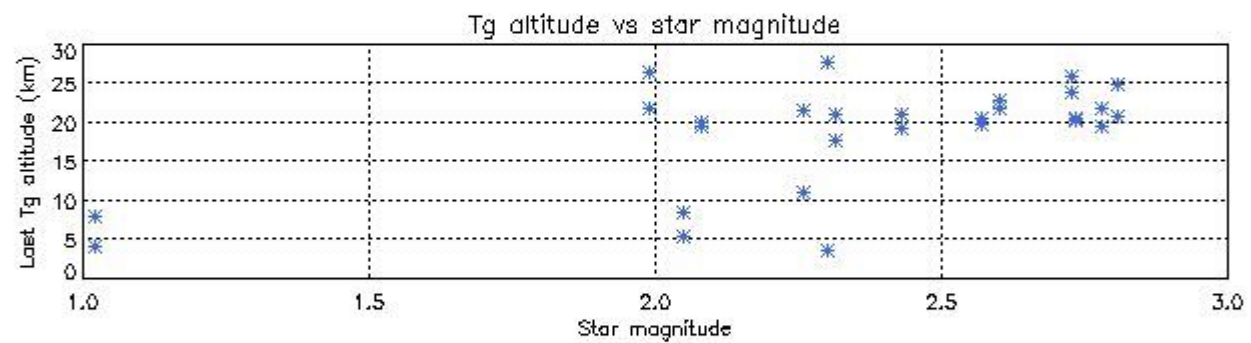
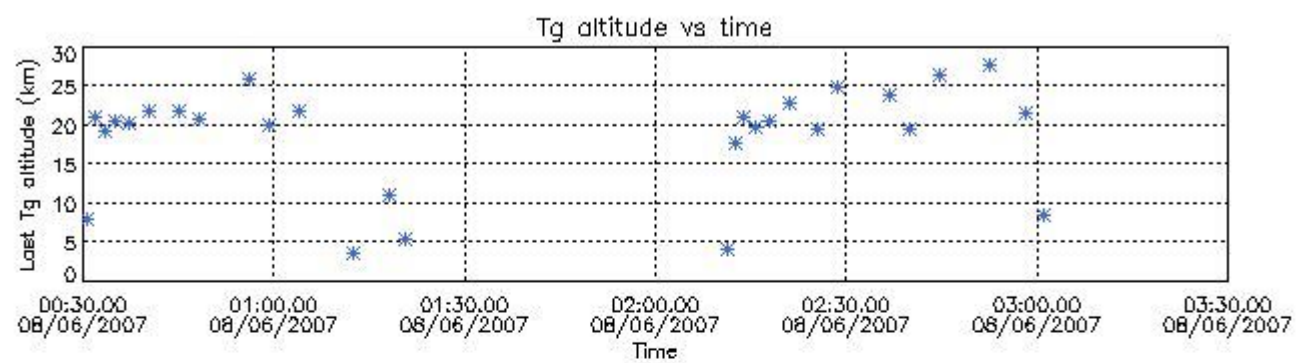


Tangent altitude at which the star is lost



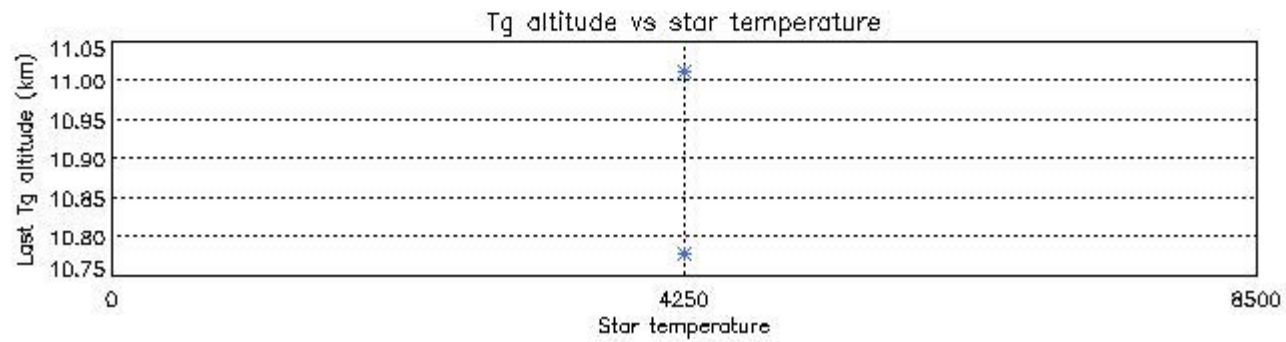
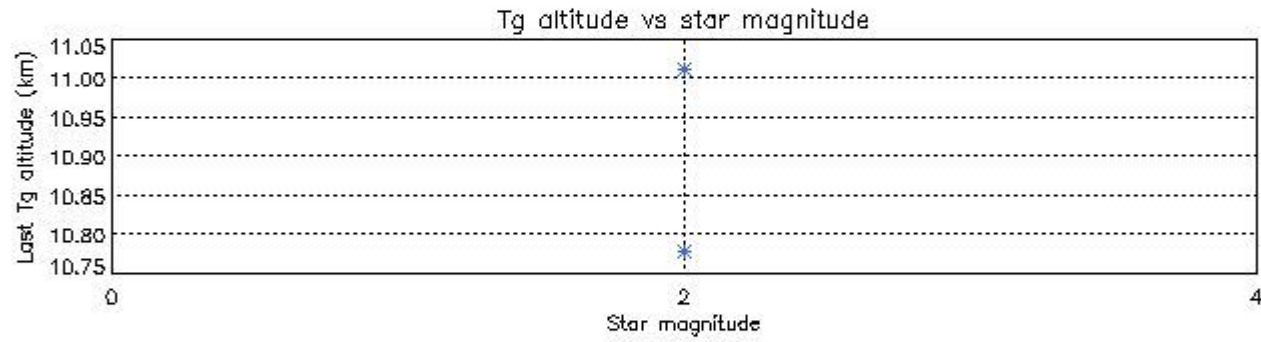
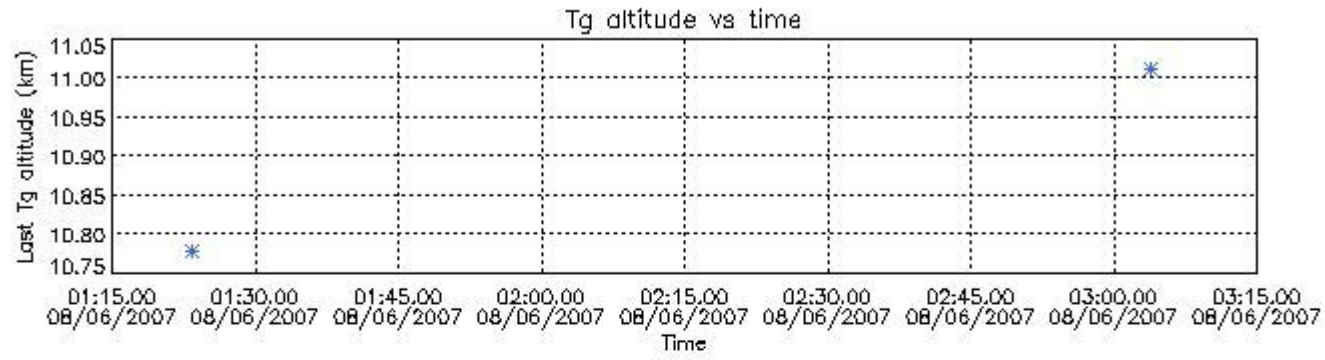
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



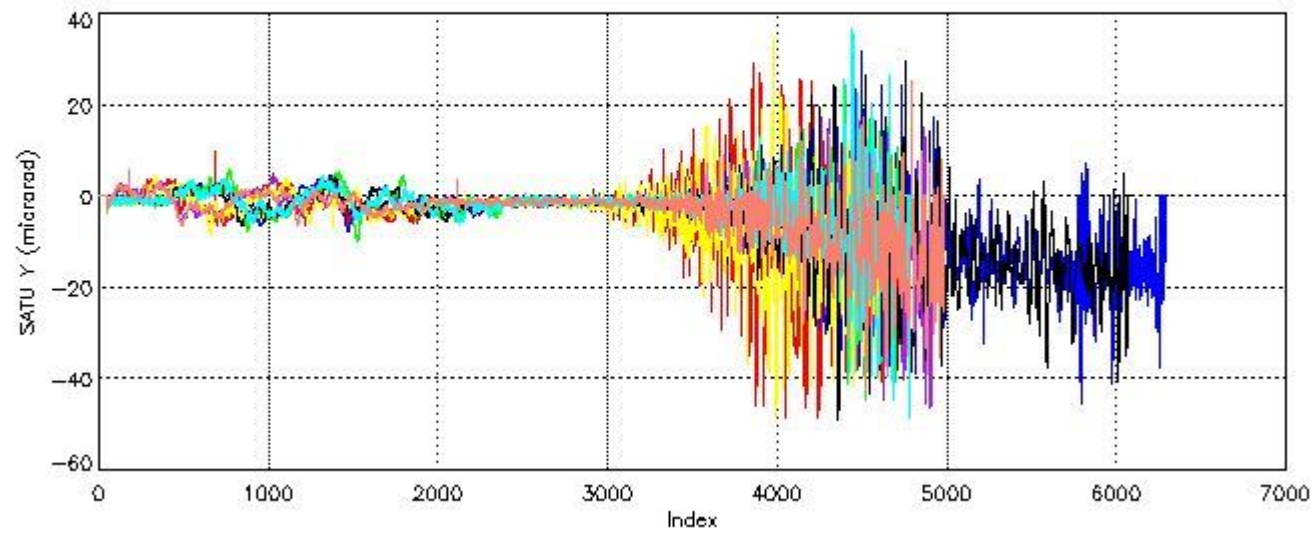
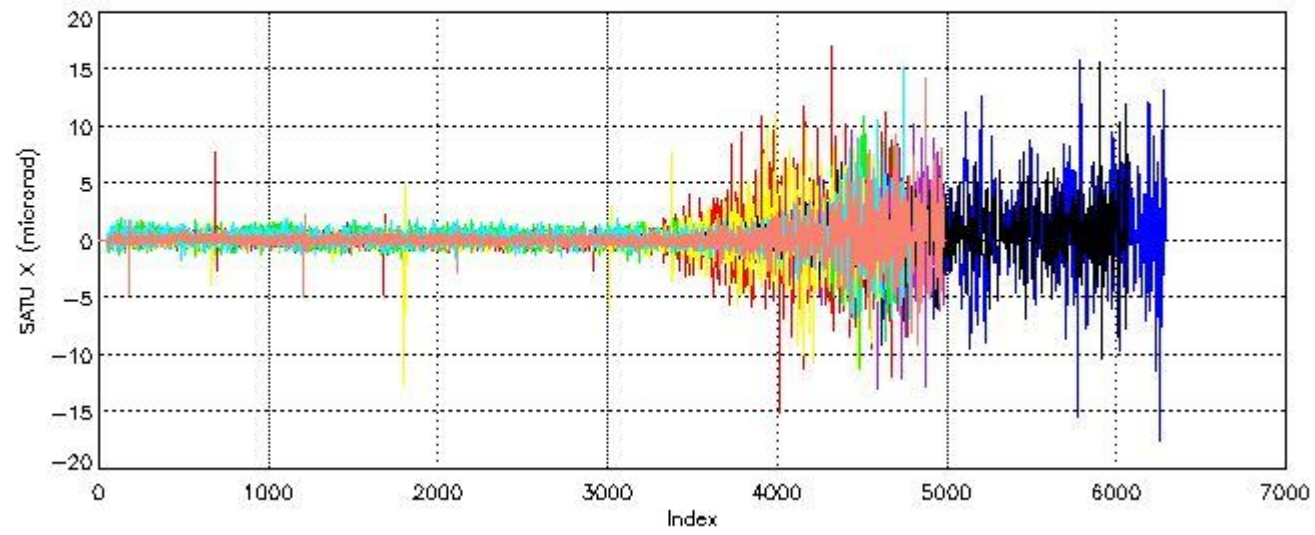
## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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





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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.20963	-0.92710	0.18477	-0.87712
St. deviation:	0.35086	2.2137	0.60759	2.7191
Maximum:	7.8000	9.8000	4.4000	7.1000
Minimum:	-4.7000	-8.7000	-4.2000	-10.600

Number of data:	8800.0	8800.0	24200.	24200.
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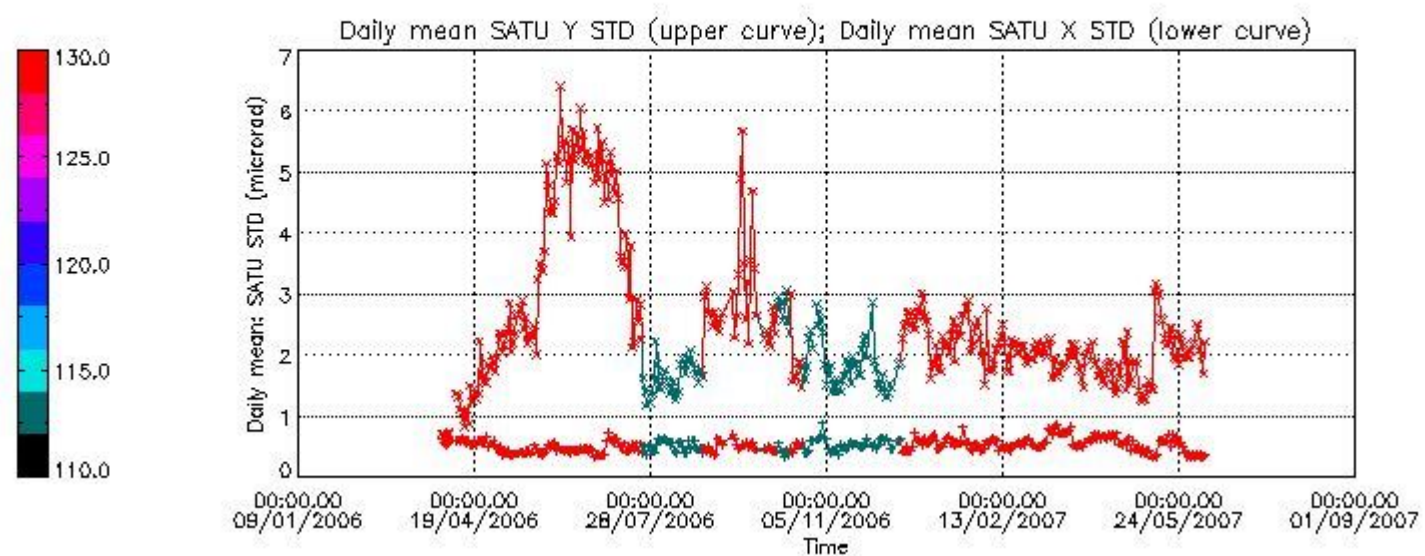
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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



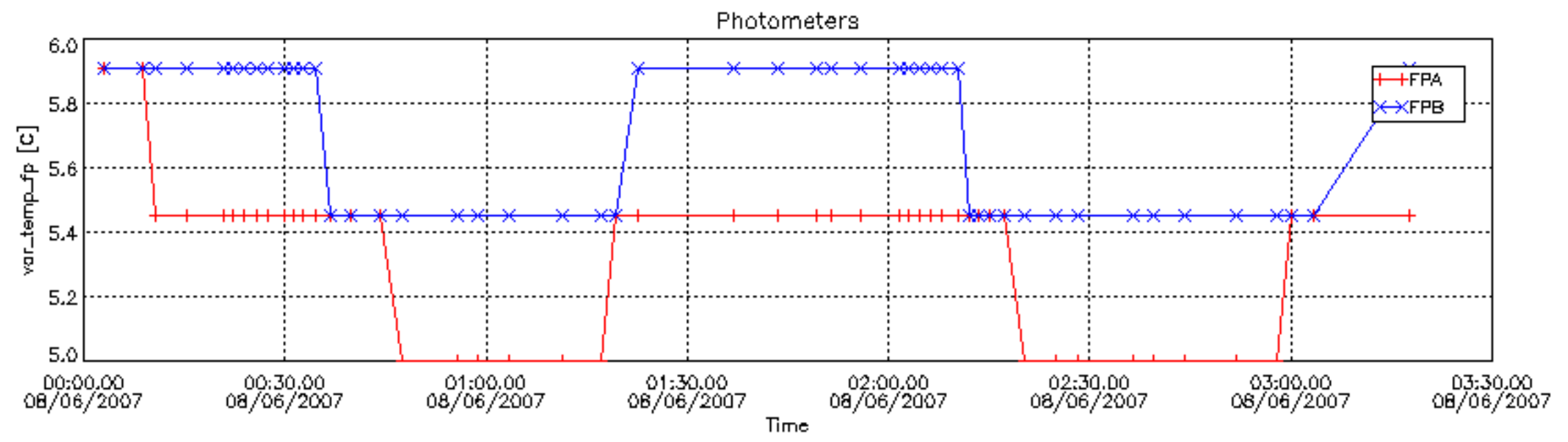
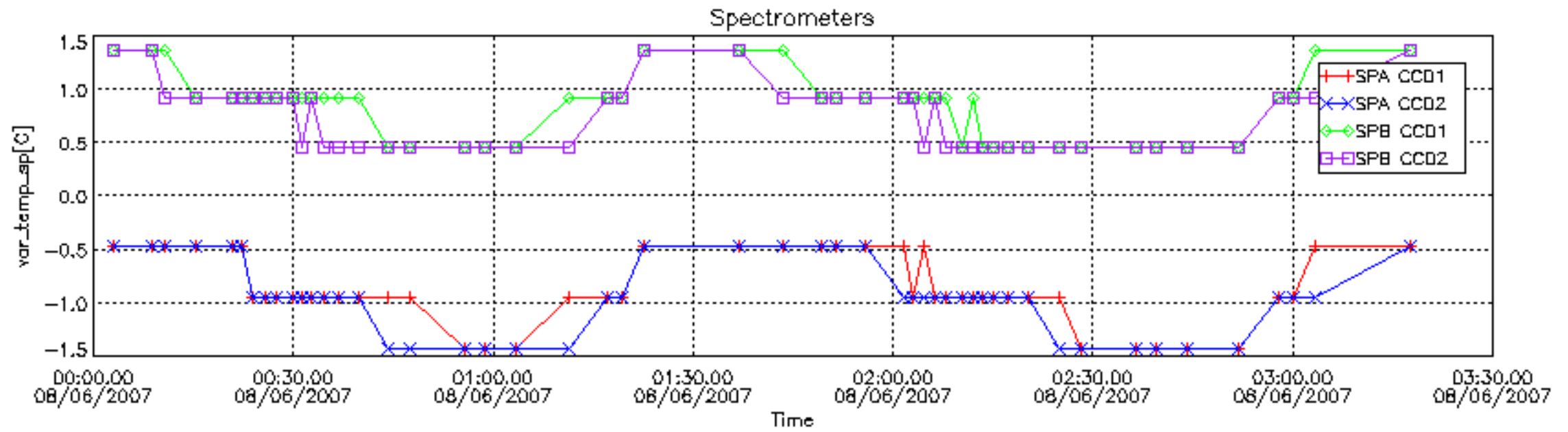
### 8. Auxiliary Data Files used for the production reported in section 2.4

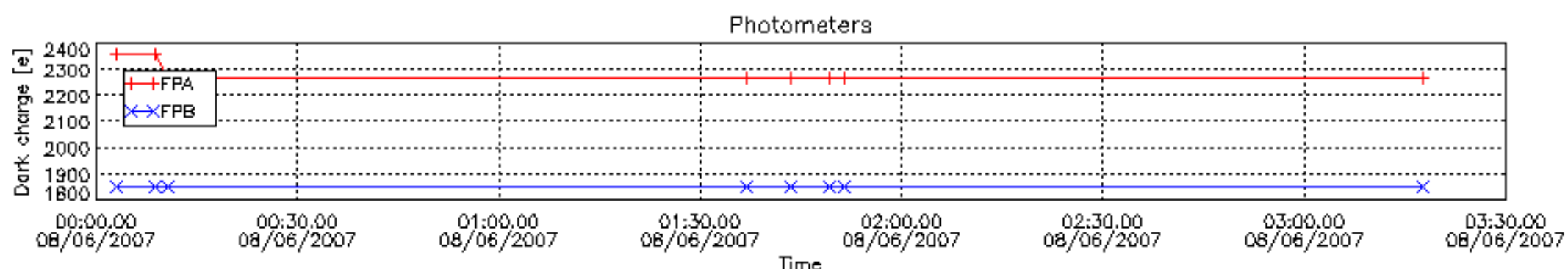
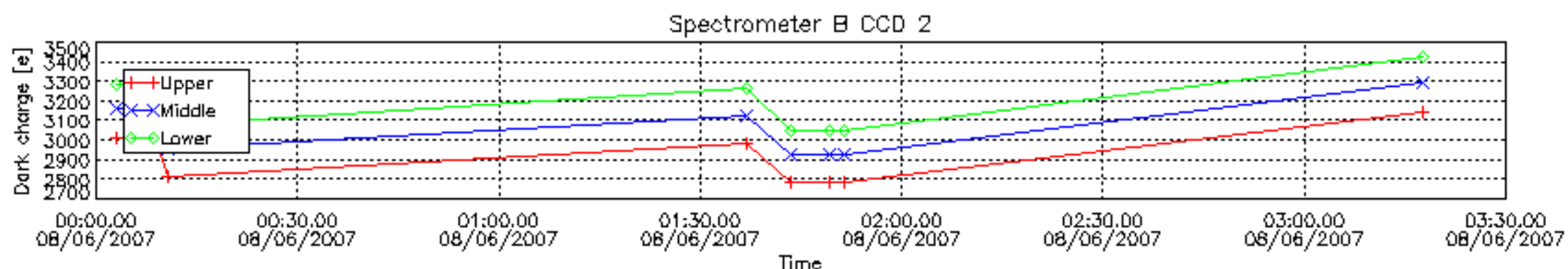
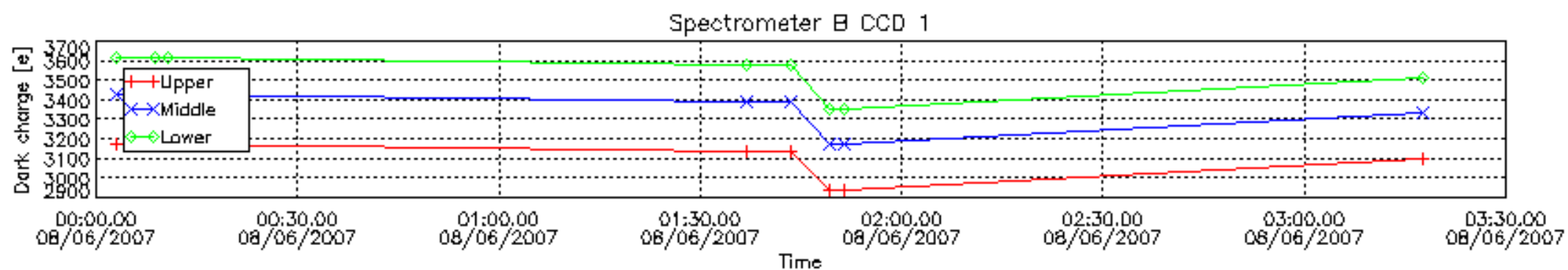
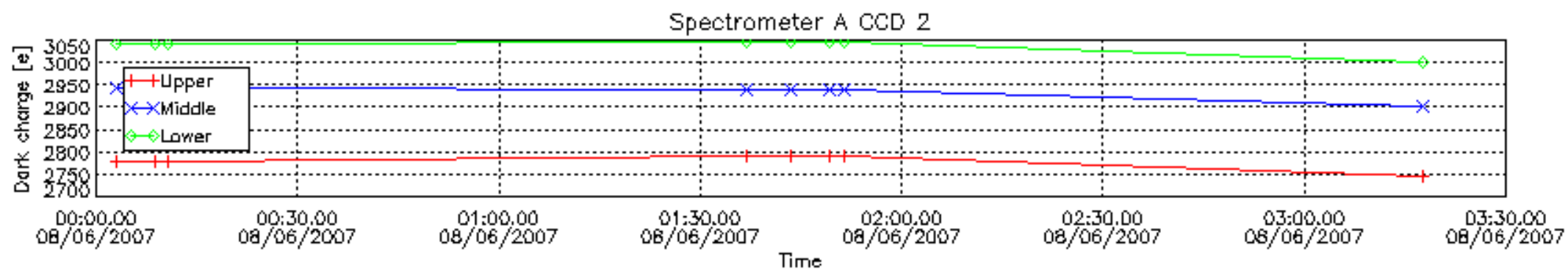
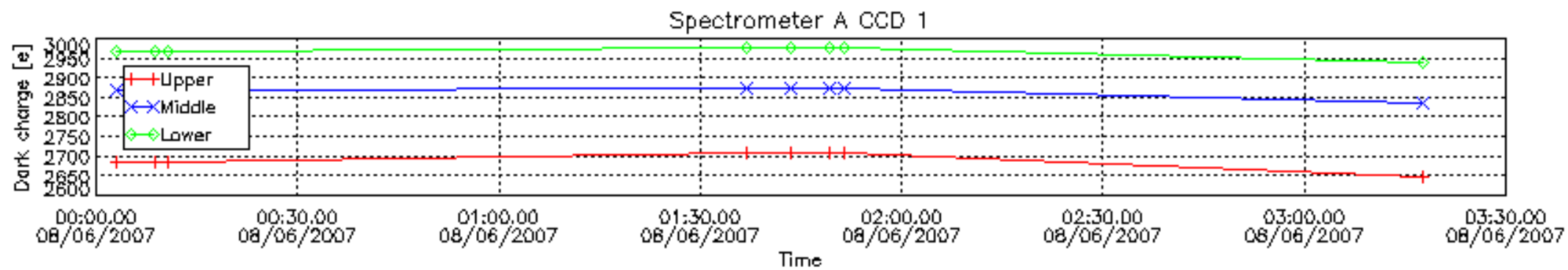
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

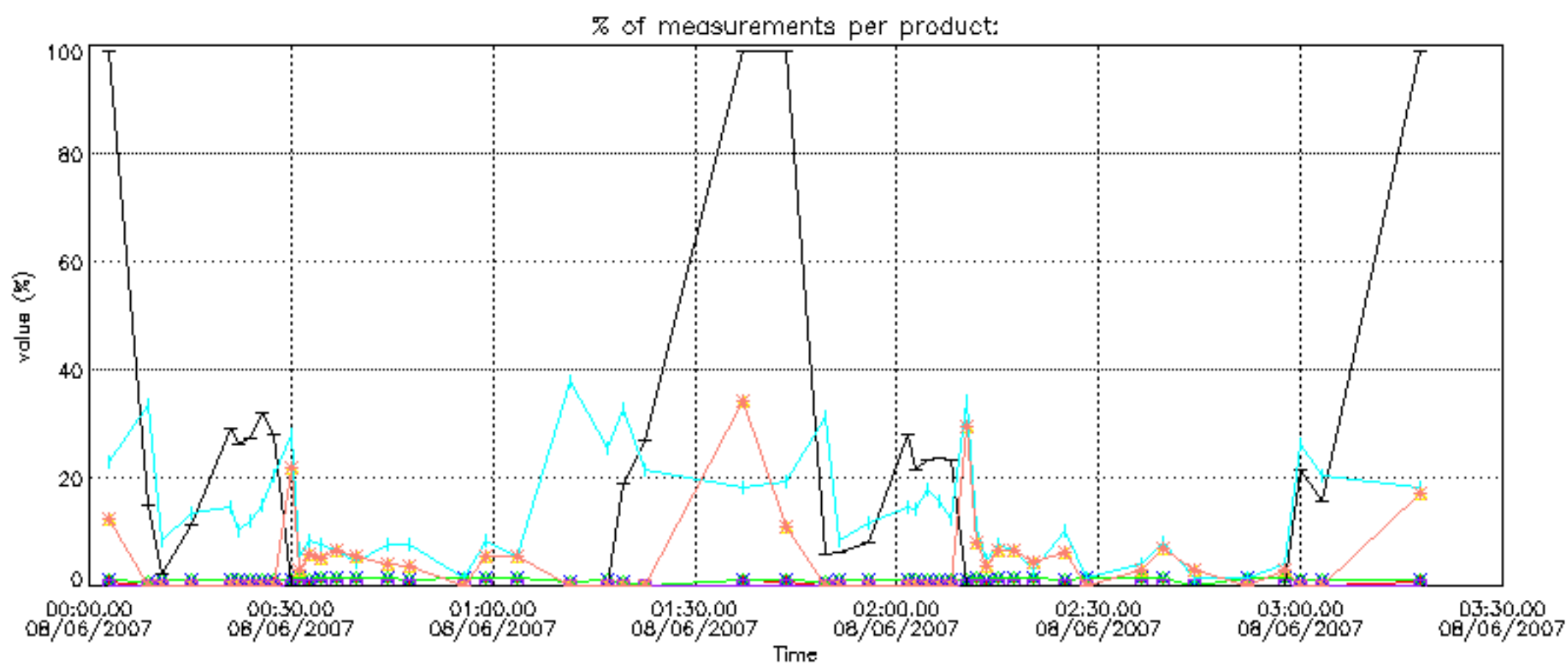
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	08-JUN-2007 00:02:58
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070605_142211_20070604_000000_20100101_000000	1	08-JUN-2007 00:02:58
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	08-JUN-2007 00:02:58
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-JUN-2007 00:02:58
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	08-JUN-2007 00:02:58
ECMWF_FILE	AUX_ECF_AXNECM20070607_062111_20070607_210000_20070608_090000	1	08-JUN-2007 00:02:58
OPTIONAL_ECMWF_FILE	MISSING	1	08-JUN-2007 00:02:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070607_220614_000060572058_00444_27552_3645.N1	1	08-JUN-2007 00:02:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070607_235230_000054192058_00445_27553_3646.N1	25	08-JUN-2007 01:37:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070608_012808_000041442058_00446_27554_3647.N1	46	08-JUN-2007 02:51:58





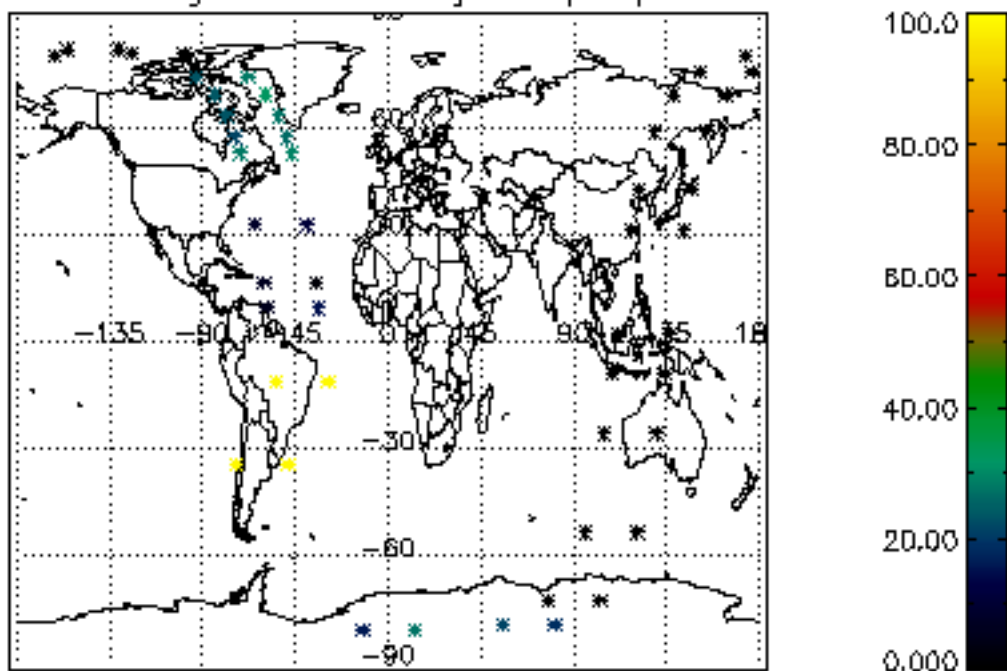




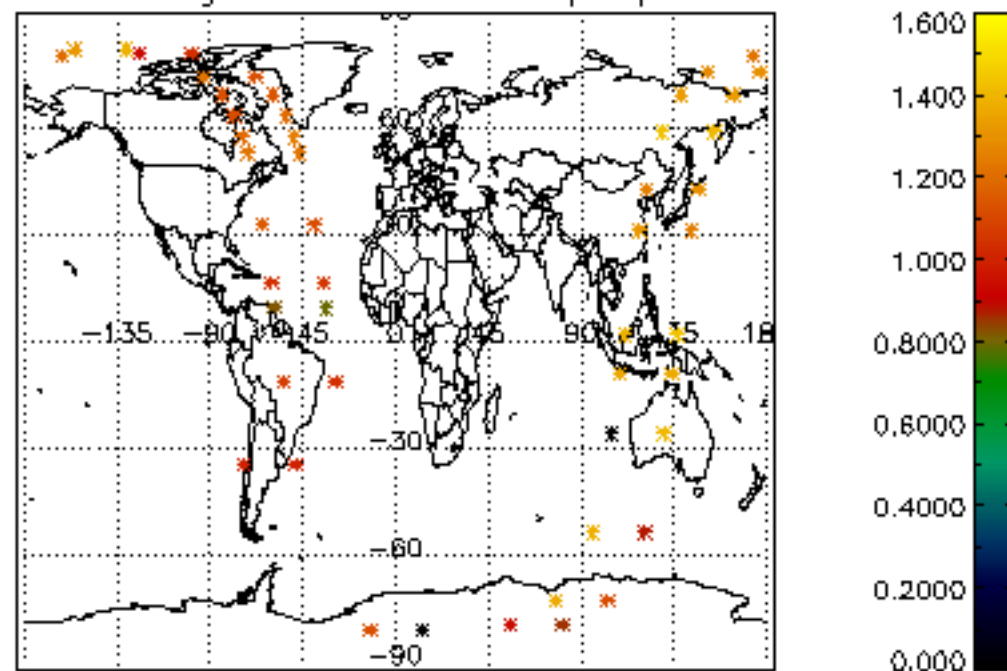




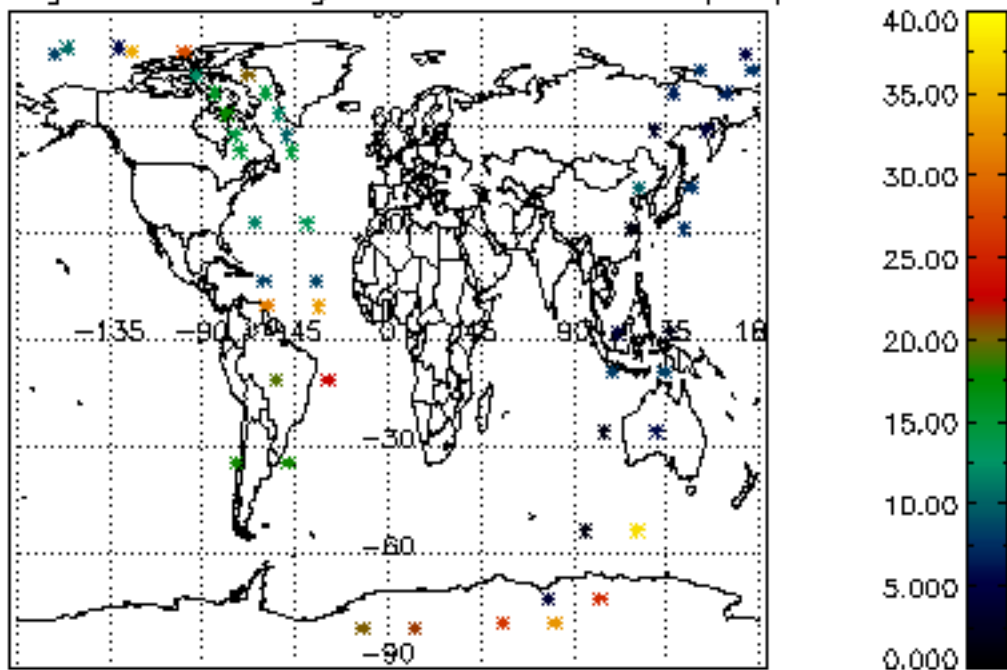
Percentage of cosmic ray hits per profile



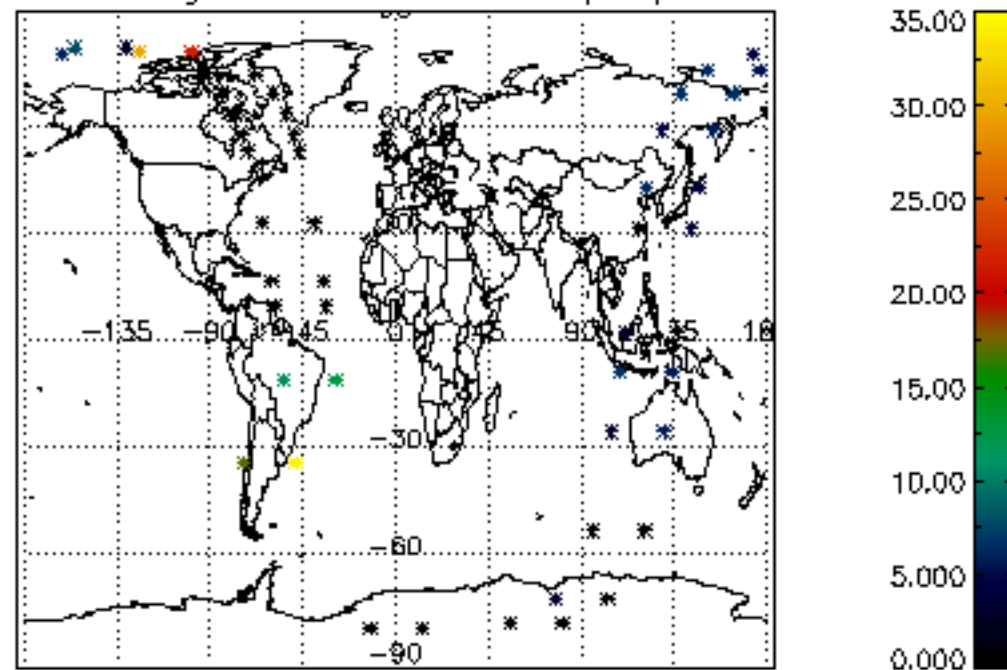
Percentage of datation errors per profile



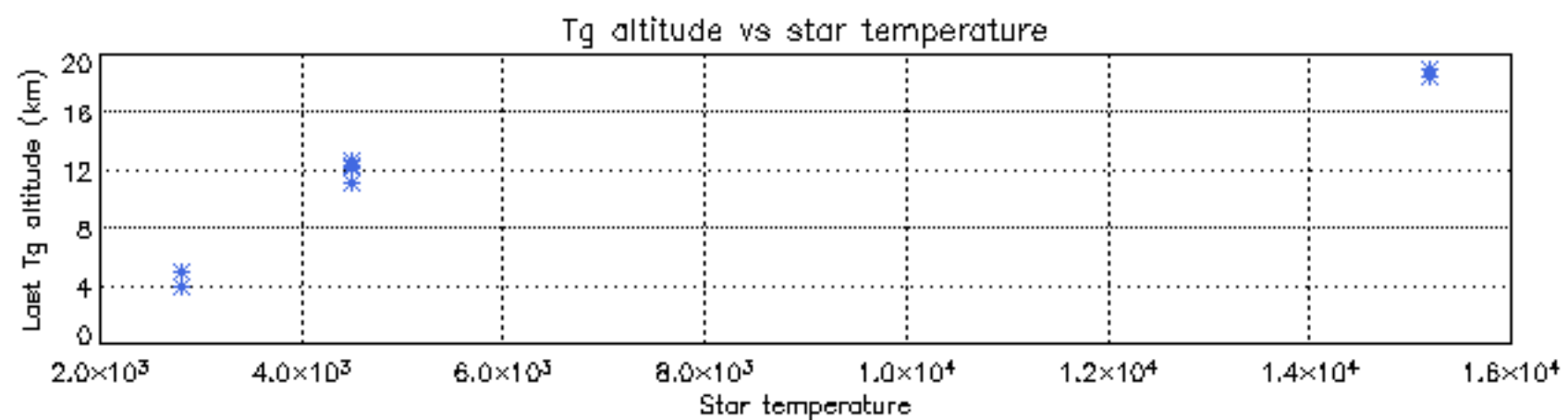
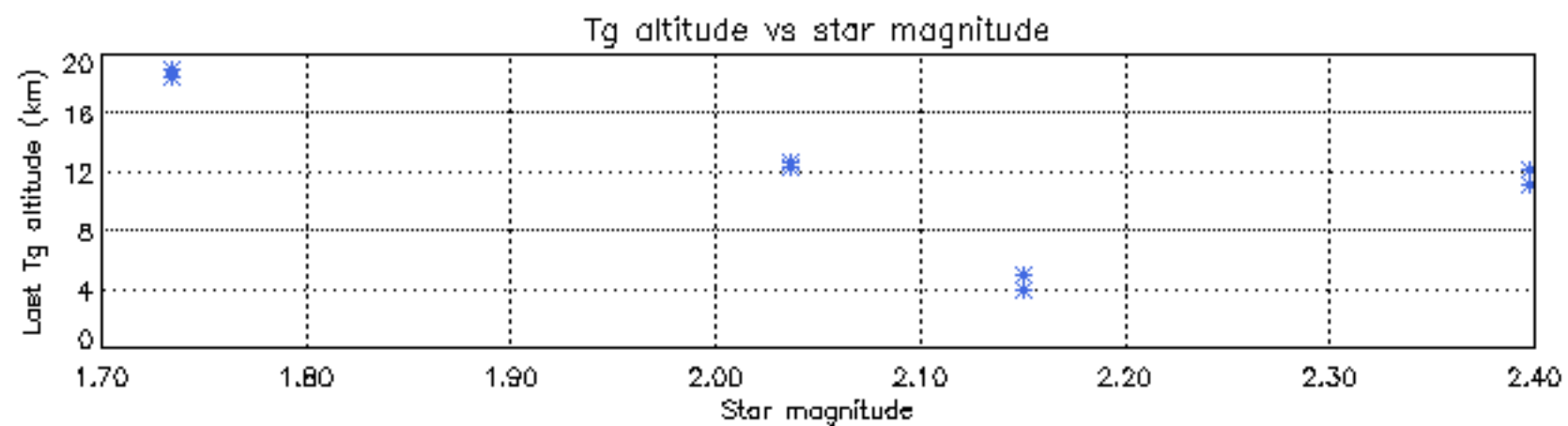
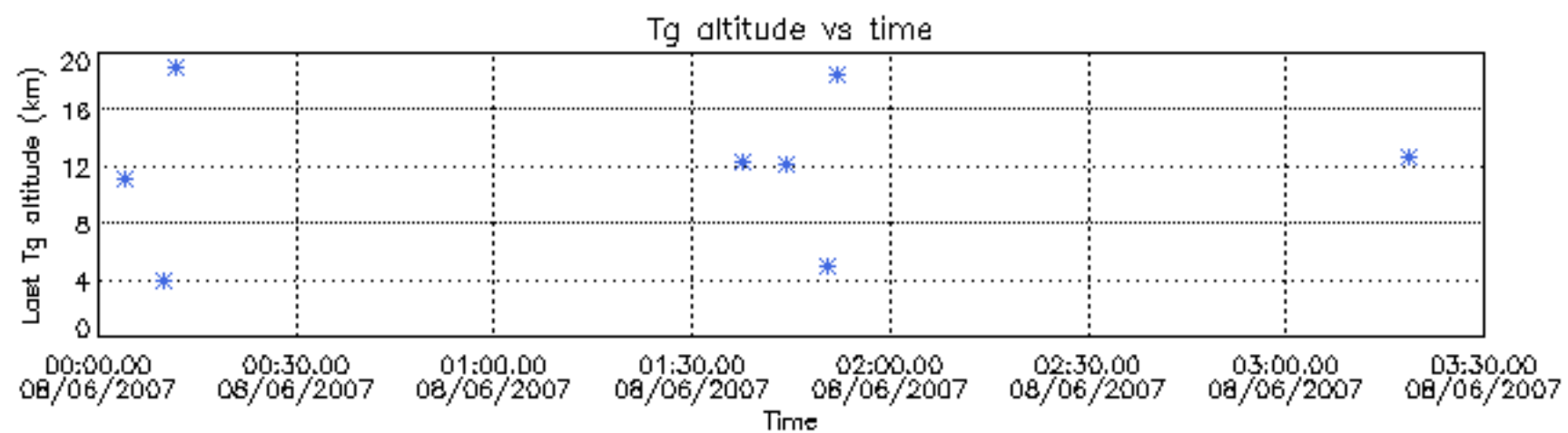
Percentage of star falling outside central band per profile



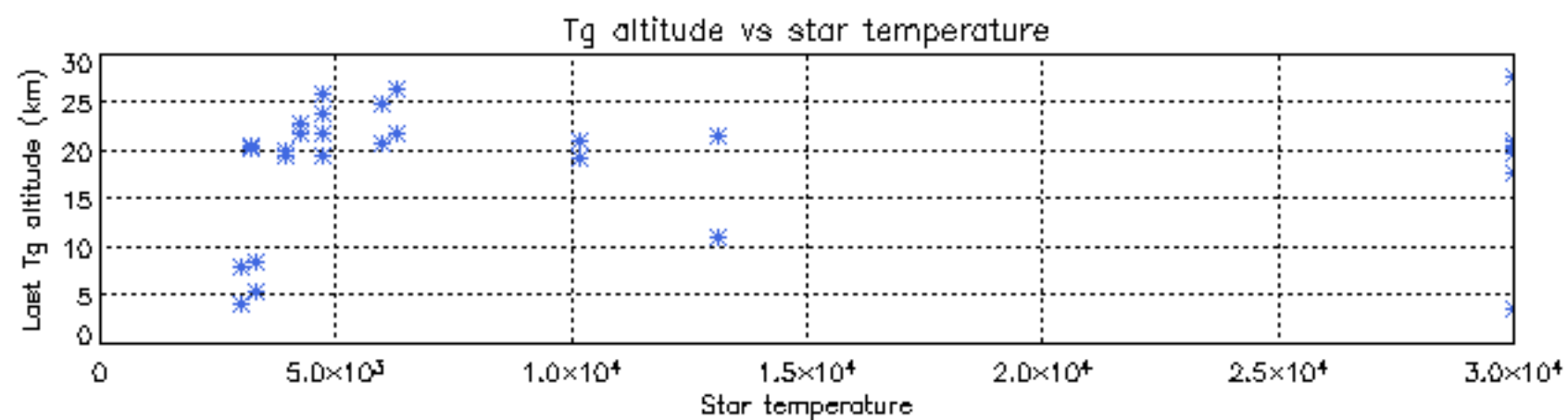
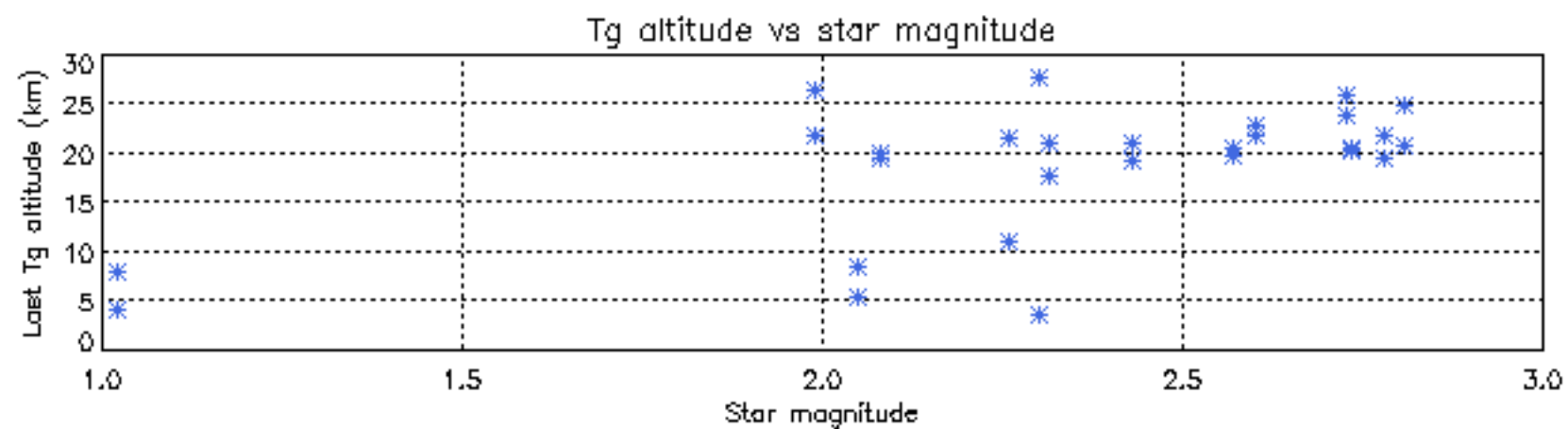
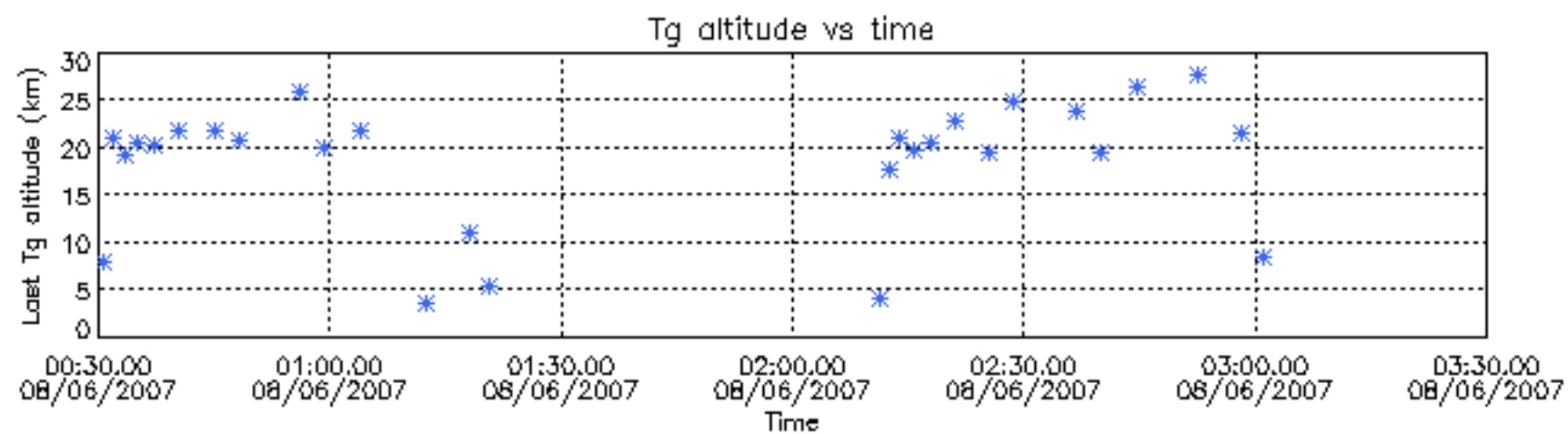
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

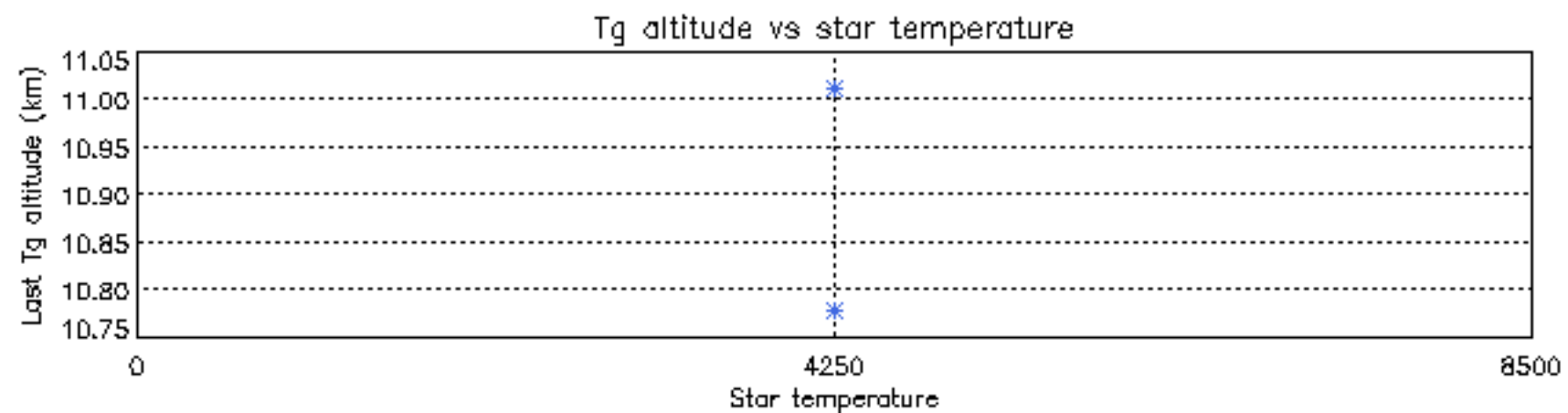
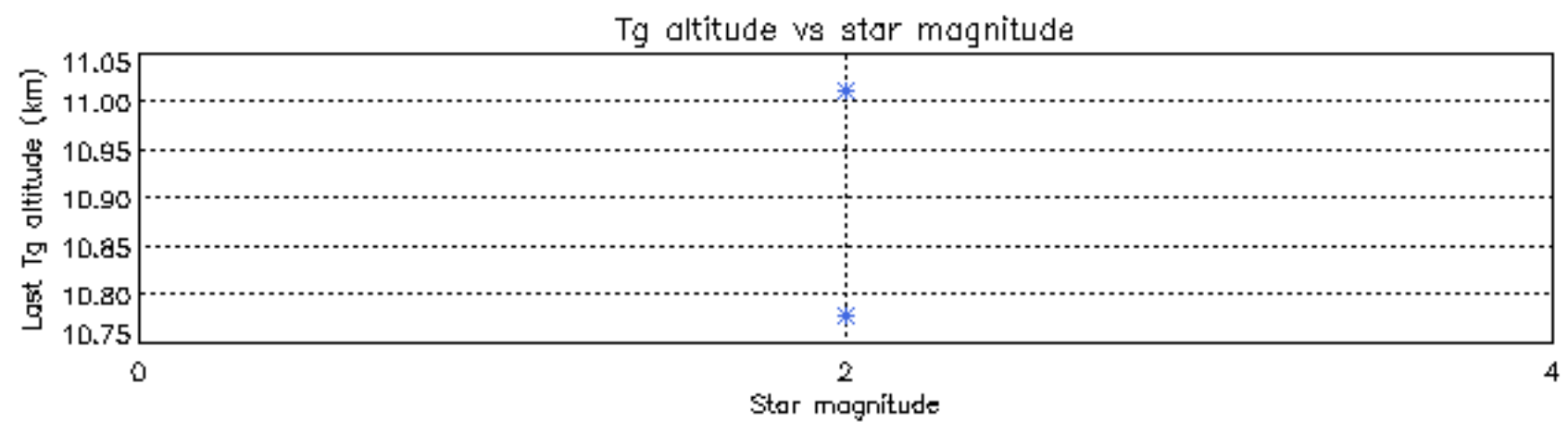
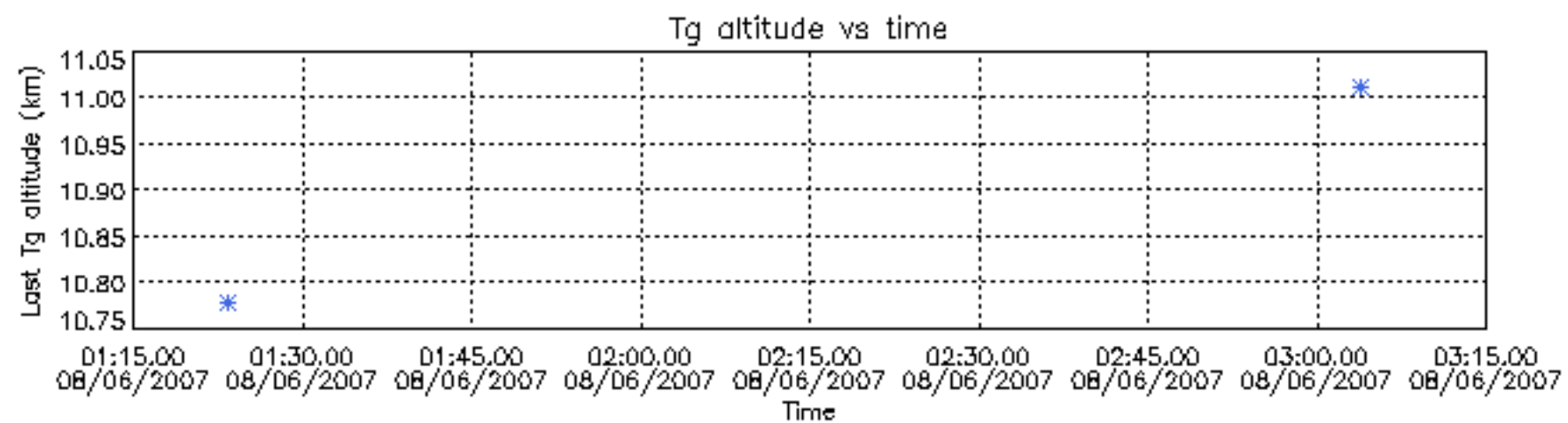


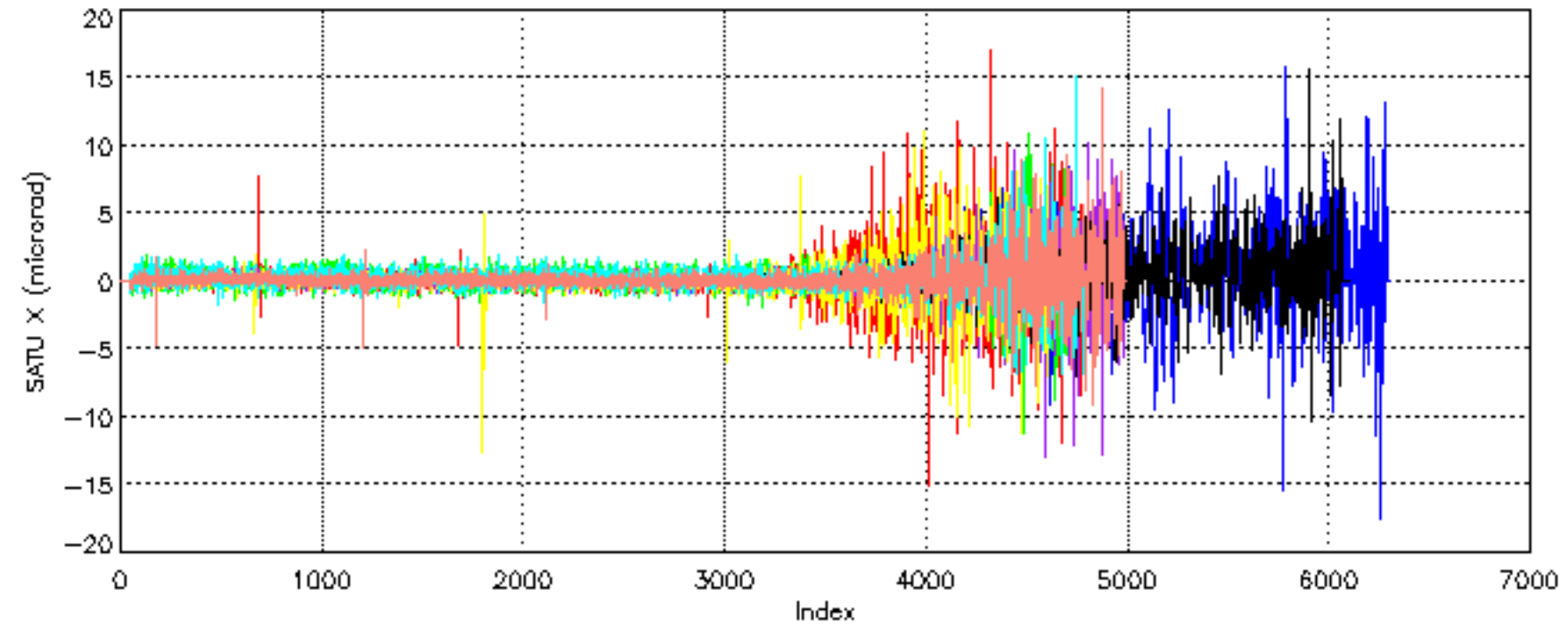
Tangent altitude at which the star is lost

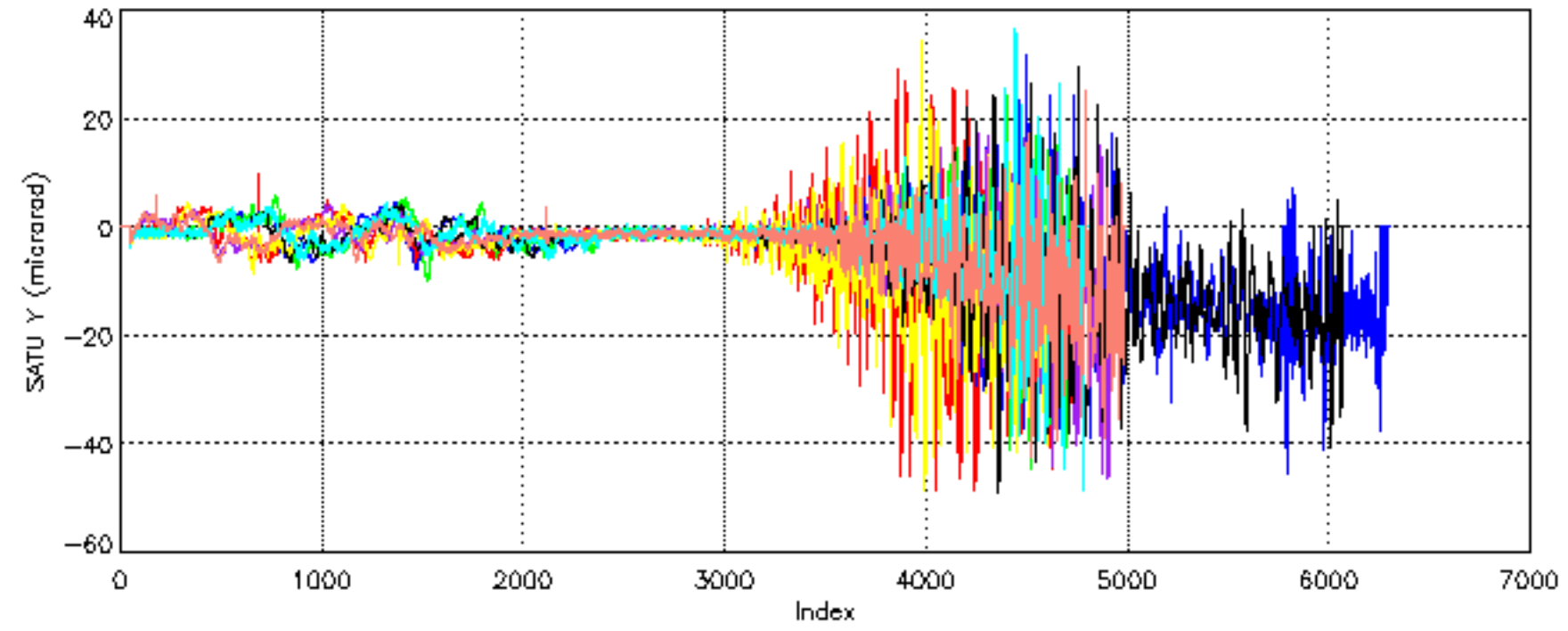


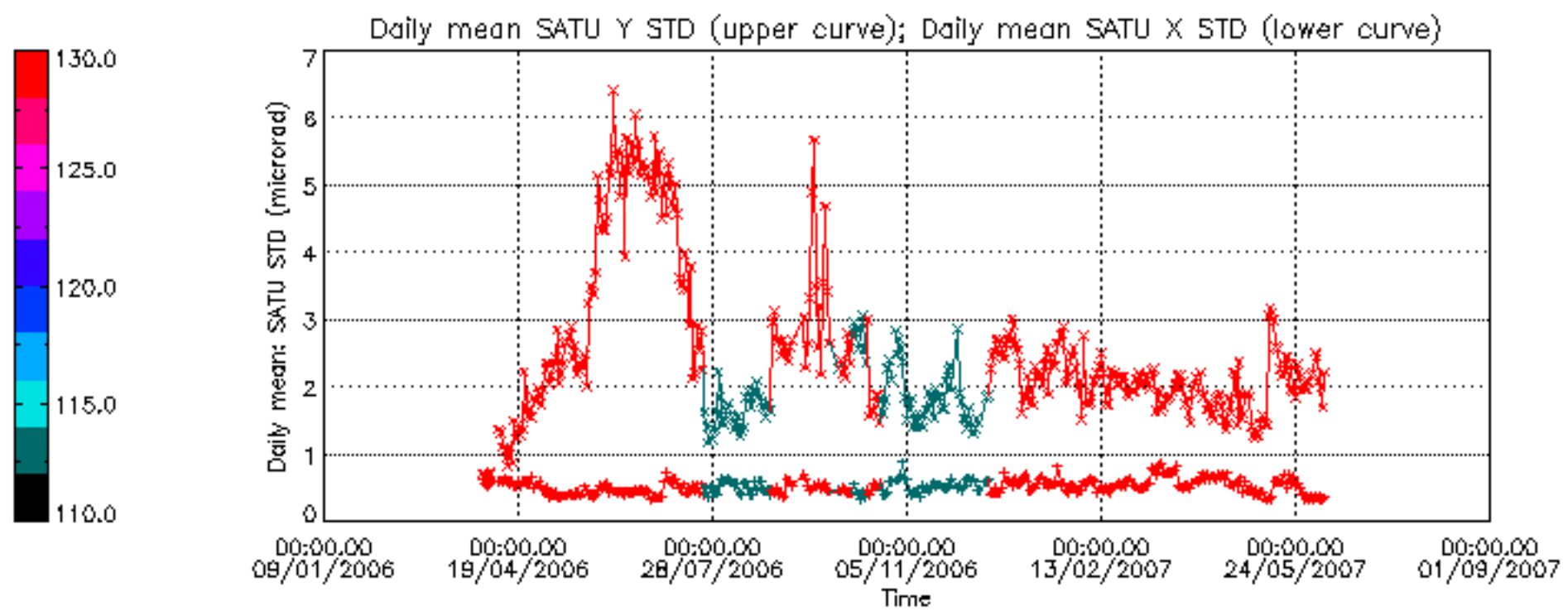


Tangent altitude at which the star is lost











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 4; 71.8; 01-JUN-2007 00:27:23; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27454  
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 6; 483.8; 01-JUN-2007 00:34:15; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27454  
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 9; 858.6; 01-JUN-2007 04:01:42; Dark ; 45.0; 141; Bet Ara ; 2.84; 4600;occ; 90; 0;27456  
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 6; 1834.0; 02-JUN-2007 17:11:08; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;27478  
 7; 2014.6; 02-JUN-2007 17:14:08; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27478  
 8; 2316.5; 02-JUN-2007 17:19:10; Bright; 26.0; 127; 27Bet Her ; 2.78; 4700;occ; 52; 0;27478  
 9; 2367.3; 02-JUN-2007 17:20:01; Bright; 38.0; 67; 5Alp CrB ; 2.22; 11000;occ; 76; 0;27478  
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 11; 3165.7; 02-JUN-2007 17:33:19; Bright; 52.0; 60; 7Bet UMi ; 2.08; 3950;occ; 104; 0;27478  
 12; 3446.8; 02-JUN-2007 17:38:00; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27478  
 13; 3927.6; 02-JUN-2007 17:46:01; Bright; 54.5; 76; 27Gam Cas ; 2.30; 30000;occ; 109; 0;27478  
 14; 4396.1; 02-JUN-2007 17:53:50; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;27478  
 15; 5403.7; 02-JUN-2007 18:10:37; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;27478  
 16; 5659.7; 02-JUN-2007 18:14:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27478  
 17; 5804.5; 02-JUN-2007 18:17:18; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;27478

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 3; 1123.8; 03-JUN-2007 06:24:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27486  
 4; 1562.2; 03-JUN-2007 06:31:23; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;27486  
 5; 1776.7; 03-JUN-2007 06:34:58; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;27486  
 6; 1914.1; 03-JUN-2007 06:37:15; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;27486  
 7; 2208.6; 03-JUN-2007 06:42:10; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;27486  
 8; 2632.9; 03-JUN-2007 06:49:14; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;27486  
 9; 3153.4; 03-JUN-2007 06:57:55; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;27486  
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 3; 1050.9; 03-JUN-2007 19:47:40; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;27494  
 4; 1158.0; 03-JUN-2007 19:49:27; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;27494  
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 6; 1380.8; 03-JUN-2007 19:53:09; Dark ; 47.0; 136; 23Tau Sco ; 2.82; 30000;occ; 94; 0;27494  
 7; 1549.4; 03-JUN-2007 19:55:58; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27494

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 9; 1833.9; 03-JUN-2007 20:00:43; Bright; 38.0; 120; 1Del Oph ; 2.73; 3200;occ; 76; 0;27494  
 10; 2014.4; 03-JUN-2007 20:03:43; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27494  
 11; 2311.2; 03-JUN-2007 20:08:40; Bright; 41.0; 127; 27Bet Her ; 2.78; 4700;occ; 82; 0;27494  
 12; 2995.6; 03-JUN-2007 20:20:04; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;27494  
 13; 3165.4; 03-JUN-2007 20:22:54; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27494  
 14; 3446.7; 03-JUN-2007 20:27:35; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27494  
 15; 3925.5; 03-JUN-2007 20:35:34; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;27494  
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 5; 222.4; 03-JUN-2007 21:14:27; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;27495  
 6; 511.8; 03-JUN-2007 21:19:16; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;27495  
 7; 872.7; 03-JUN-2007 21:25:17; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;27495  
 8; 949.2; 03-JUN-2007 21:26:34; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;27495  
 9; 1051.3; 03-JUN-2007 21:28:16; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27495  
 10; 1158.3; 03-JUN-2007 21:30:03; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;27495  
 11; 1260.9; 03-JUN-2007 21:31:45; Dark ; 46.5; 75; 26Eps Sco ; 2.29; 4250;occ; 93; 0;27495  
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 15; 1833.9; 03-JUN-2007 21:41:18; Bright; 38.0; 120; 1Del Oph ; 2.73; 3200;occ; 76; 0;27495  
 16; 2014.5; 03-JUN-2007 21:44:19; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27495  
 17; 2310.9; 03-JUN-2007 21:49:15; Bright; 39.0; 127; 27Bet Her ; 2.78; 4700;occ; 78; 0;27495  
 18; 2995.3; 03-JUN-2007 22:00:40; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27495  
 19; 3165.3; 03-JUN-2007 22:03:30; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;27495  
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 21; 3925.3; 03-JUN-2007 22:16:10; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;27495  
 22; 4397.6; 03-JUN-2007 22:24:02; Bright; 45.0; 53; 43Bet And ; 2.05; 3300;occ; 90; 0;27495

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 5; 223.1; 03-JUN-2007 22:55:04; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;27496  
 6; 512.4; 03-JUN-2007 22:59:53; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27496  
 7; 873.2; 03-JUN-2007 23:05:54; Dark ; 46.0; 141; Bet Ara ; 2.84; 4600;occ; 92; 0;27496  
 8; 949.6; 03-JUN-2007 23:07:10; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27496  
 9; 1051.8; 03-JUN-2007 23:08:52; Dark ; 51.0; 40; The Sco ; 1.86; 7100;occ; 102; 0;27496  
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 13; 1549.6; 03-JUN-2007 23:17:10; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27496  
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 16; 2014.4; 03-JUN-2007 23:24:55; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27496  
 17; 2310.5; 03-JUN-2007 23:29:51; Bright; 41.5; 127; 27Bet Her ; 2.78; 4700;occ; 83; 0;27496  
 18; 2995.0; 03-JUN-2007 23:41:15; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;27496  
 19; 3165.3; 03-JUN-2007 23:44:06; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;27496  
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 21; 3925.5; 03-JUN-2007 23:56:46; Bright; 56.0; 76; 27Gam Cas ; 2.30; 30000;occ; 112; 0;27496  
 22; 4397.8; 04-JUN-2007 00:04:38; Bright; 57.5; 53; 43Bet And ; 2.05; 3300;occ; 115; 0;27496

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14; 6007.7; 03-JUN-2007 09:26:05; Dark ; 35.0; 0; ; 0.00; 0;occ; 70; 0;27487
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3; 2254.4; 03-JUN-2007 10:04:07; Bright; 101.5; 127; 27Bet Her ; 2.78; 4700;occ; 203; 0;27488
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6; 3395.3; 03-JUN-2007 10:23:08; Bright; 87.0; 49; 1Alp UMi ; 1.99; 6300;occ; 174; 0;27488
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6; 3395.2; 03-JUN-2007 12:03:44; Bright; 87.0; 49; 1Alp UMi ; 1.99; 6300;occ; 174; 0;27489
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9; 5353.8; 03-JUN-2007 12:36:23; Dark ; 101.0; 52; 16Bet Cet ; 2.04; 4500;occ; 202; 0;27489
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19; 7295.4; 03-JUN-2007 13:08:44; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;27489
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 6; 3165.3; 07-JUN-2007 09:53:26; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27545  
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13; 5451.0; 07-JUN-2007 12:12:08; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;27546  
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17; 6308.3; 07-JUN-2007 12:26:25; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;27546  
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19; 6926.7; 07-JUN-2007 12:36:44; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;27546  
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23; 7311.2; 07-JUN-2007 12:43:08; Dark ; 44.0; 75; 26Eps Sco ; 2.29; 4250;occ; 88; 0;27546  
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6; 2492.0; 07-JUN-2007 13:03:25; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;27547  
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9; 3446.8; 07-JUN-2007 13:19:20; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27547  
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23; 7214.3; 07-JUN-2007 14:22:07; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;27547  
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8; 2491.6; 07-JUN-2007 14:44:00; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;27548  
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23; 7005.8; 07-JUN-2007 15:59:14; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;27548
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 20; 6602.8; 09-JUN-2007 16:29:53; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27577  
 21; 7016.0; 09-JUN-2007 16:36:47; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;27577  
 22; 7119.9; 09-JUN-2007 16:38:30; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;27577  
 23; 7224.8; 09-JUN-2007 16:40:15; Dark ; 45.0; 25; 35Lam Sco ; 1.62; 28000;occ; 90; 0;27577

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 3; 1603.1; 09-JUN-2007 16:47:10; Bright; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;27578  
 4; 1709.4; 09-JUN-2007 16:48:56; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;27578  
 5; 1836.7; 09-JUN-2007 16:51:03; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;27578  
 6; 2017.3; 09-JUN-2007 16:54:04; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;27578  
 7; 2290.1; 09-JUN-2007 16:58:37; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;27578  
 8; 2481.8; 09-JUN-2007 17:01:48; Bright; 39.5; 133; 40Zet Her ; 2.81; 6000;occ; 79; 0;27578  
 9; 2976.4; 09-JUN-2007 17:10:03; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;27578  
 10; 3165.7; 09-JUN-2007 17:13:12; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27578  
 11; 3446.7; 09-JUN-2007 17:17:53; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27578  
 12; 3914.5; 09-JUN-2007 17:25:41; Bright; 57.0; 76; 27Gam Cas ; 2.30; 30000;occ; 114; 0;27578  
 13; 4265.6; 09-JUN-2007 17:31:32; Bright; 35.5; 73; 57Gam1And ; 2.26; 13100;occ; 71; 0;27578  
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 15; 4600.7; 09-JUN-2007 17:37:07; Dark ; 44.5; 50; 13Alp Ari ; 2.01; 4250;occ; 89; 0;27578  
 16; 5476.3; 09-JUN-2007 17:51:43; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;27578  
 17; 5711.7; 09-JUN-2007 17:55:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27578  
 18; 5866.9; 09-JUN-2007 17:58:14; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;27578

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 3; 568.2; 09-JUN-2007 19:51:07; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27580

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 4; 187.1; 10-JUN-2007 00:46:33; Dark ; 57.5; 63; Bet Gru ; 2.15; 2800;occ; 115; 0;27583  
 5; 307.6; 10-JUN-2007 00:48:34; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27583  
 6; 570.0; 10-JUN-2007 00:52:56; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27583  
 7; 1085.5; 10-JUN-2007 01:01:32; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;27583  
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 9; 1284.3; 10-JUN-2007 01:04:51; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;27583



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 11; 1709.6; 10-JUN-2007 01:11:56; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;27583  
 12; 1836.8; 10-JUN-2007 01:14:03; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;27583  
 13; 2288.8; 10-JUN-2007 01:21:35; Bright; 39.5; 127; 27Bet Her ; 2.78; 4700;occ; 79; 0;27583  
 14; 2480.2; 10-JUN-2007 01:24:46; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;27583  
 15; 2907.3; 10-JUN-2007 01:31:53; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;27583  
 16; 3913.4; 10-JUN-2007 01:48:40; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;27583  
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 19; 4601.5; 10-JUN-2007 02:00:08; Dark ; 44.0; 50; 13Alp Ari ; 2.01; 4250;occ; 88; 0;27583

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 2; -321.4; 10-JUN-2007 02:18:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27583  
 3; -165.6; 10-JUN-2007 02:21:16; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;27583  
 4; 188.0; 10-JUN-2007 02:27:10; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;27584  
 5; 308.6; 10-JUN-2007 02:29:11; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;27584  
 6; 570.7; 10-JUN-2007 02:33:33; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27584  
 7; 1086.0; 10-JUN-2007 02:42:08; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;27584  
 8; 1190.7; 10-JUN-2007 02:43:53; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;27584  
 9; 1284.7; 10-JUN-2007 02:45:27; Dark ; 41.0; 75; 26Eps Sco ; 2.29; 4250;occ; 82; 0;27584  
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 11; 1710.0; 10-JUN-2007 02:52:32; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;27584  
 12; 1836.9; 10-JUN-2007 02:54:39; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;27584  
 13; 2288.7; 10-JUN-2007 03:02:11; Bright; 40.0; 127; 27Bet Her ; 2.78; 4700;occ; 80; 0;27584  
 14; 2479.9; 10-JUN-2007 03:05:22; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;27584  
 15; 2906.8; 10-JUN-2007 03:12:29; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;27584

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 4; -1434.1; 10-JUN-2007 03:40:44; Dark ; 49.0; 50; 13Alp Ari ; 2.01; 4250;occ; 98; 0;27584  
 5; -668.6; 10-JUN-2007 03:53:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27584  
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 7; -165.0; 10-JUN-2007 04:01:53; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;27584  
 8; 189.0; 10-JUN-2007 04:07:47; Dark ; 45.0; 63; Bet Gru ; 2.15; 2800;occ; 90; 0;27585  
 9; 309.5; 10-JUN-2007 04:09:48; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;27585  
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 11; 1086.4; 10-JUN-2007 04:22:44; Dark ; 43.5; 40; The Sco ; 1.86; 7100;occ; 87; 0;27585  
 12; 1191.1; 10-JUN-2007 04:24:29; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;27585  
 13; 1285.1; 10-JUN-2007 04:26:03; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;27585  
 14; 1603.8; 10-JUN-2007 04:31:22; Bright; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;27585  
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 16; 1837.2; 10-JUN-2007 04:35:15; Bright; 37.0; 120; 1Del Oph ; 2.73; 3200;occ; 74; 0;27585  
 17; 2288.7; 10-JUN-2007 04:42:47; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;27585  
 18; 2479.9; 10-JUN-2007 04:45:58; Bright; 39.5; 133; 40Zet Her ; 2.81; 6000;occ; 79; 0;27585  
 19; 2906.5; 10-JUN-2007 04:53:05; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;27585

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 4; -1433.9; 10-JUN-2007 05:21:20; Dark ; 47.0; 50; 13Alp Ari ; 2.01; 4250;occ; 94; 0;27585  
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 8; 190.0; 10-JUN-2007 05:48:24; Dark ; 46.5; 63; Bet Gru ; 2.15; 2800;occ; 93; 0;27586  
 9; 310.6; 10-JUN-2007 05:50:25; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;27586  
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 12; 1191.5; 10-JUN-2007 06:05:06; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;27586  
 13; 1286.7; 10-JUN-2007 06:06:41; Dark ; 41.0; 75; 26Eps Sco ; 2.29; 4250;occ; 82; 0;27586  
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5; 1710.8; 10-JUN-2007 21:19:08; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;27595
6; 1837.5; 10-JUN-2007 21:21:15; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;27595
7; 2286.8; 10-JUN-2007 21:28:44; Bright; 38.5; 127; 27Bet Her ; 2.78; 4700;occ; 77; 0;27595
8; 2476.8; 10-JUN-2007 21:31:54; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;27595
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12; 1837.6; 10-JUN-2007 23:01:51; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;27596
13; 2286.6; 10-JUN-2007 23:09:20; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;27596
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5; 2478.3; 10-JUN-2007 13:08:56; Bright; 39.5; 133; 40Zet Her ; 2.81; 6000;occ; 79; 0;27590  
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4; 2287.6; 10-JUN-2007 14:46:21; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;27591  
5; 2478.0; 10-JUN-2007 14:49:32; Bright; 39.5; 133; 40Zet Her ; 2.81; 6000;occ; 79; 0;27591  
6; 2903.6; 10-JUN-2007 14:56:37; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;27591  
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4; 200.1; 11-JUN-2007 00:15:09; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;27597
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11;	1251.4;	25-JUN-2007	03:13:38;	Dark	;	41.0;	25;	35Lam Sco	;	1.62;	28000;occ;	82;	0;	27799
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13;	1440.7;	25-JUN-2007	03:16:48;	Bright;		36.5;	136;	23Tau Sco	;	2.82;	30000;occ;	73;	0;	27799
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8;	958.7;	25-JUN-2007	04:49:22;	Dark	;	39.0;	141;	Bet Ara	;	2.84;	4600;occ;	78;	0;	27800
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19;	2952.1;	25-JUN-2007	05:22:35;	Bright;		35.0;	119;	14Eta Dra	;	2.73;	4700;occ;	70;	0;	27800
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15;	1861.4;	25-JUN-2007	06:45:01;	Bright;		36.0;	120;	1Del Oph	;	2.73;	3200;occ;	72;	0;	27801
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19;	3180.6;	25-JUN-2007	07:07:00;	Bright;		34.0;	60;	7Bet UMi	;	2.08;	3950;occ;	68;	0;	27801
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