

# GOMOS Daily Report 18-JUL-2006

## Level 0 and Level 1 products

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### 1. General Info

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	20JUL2006 04:32:16
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (18JUL2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (19JUL2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

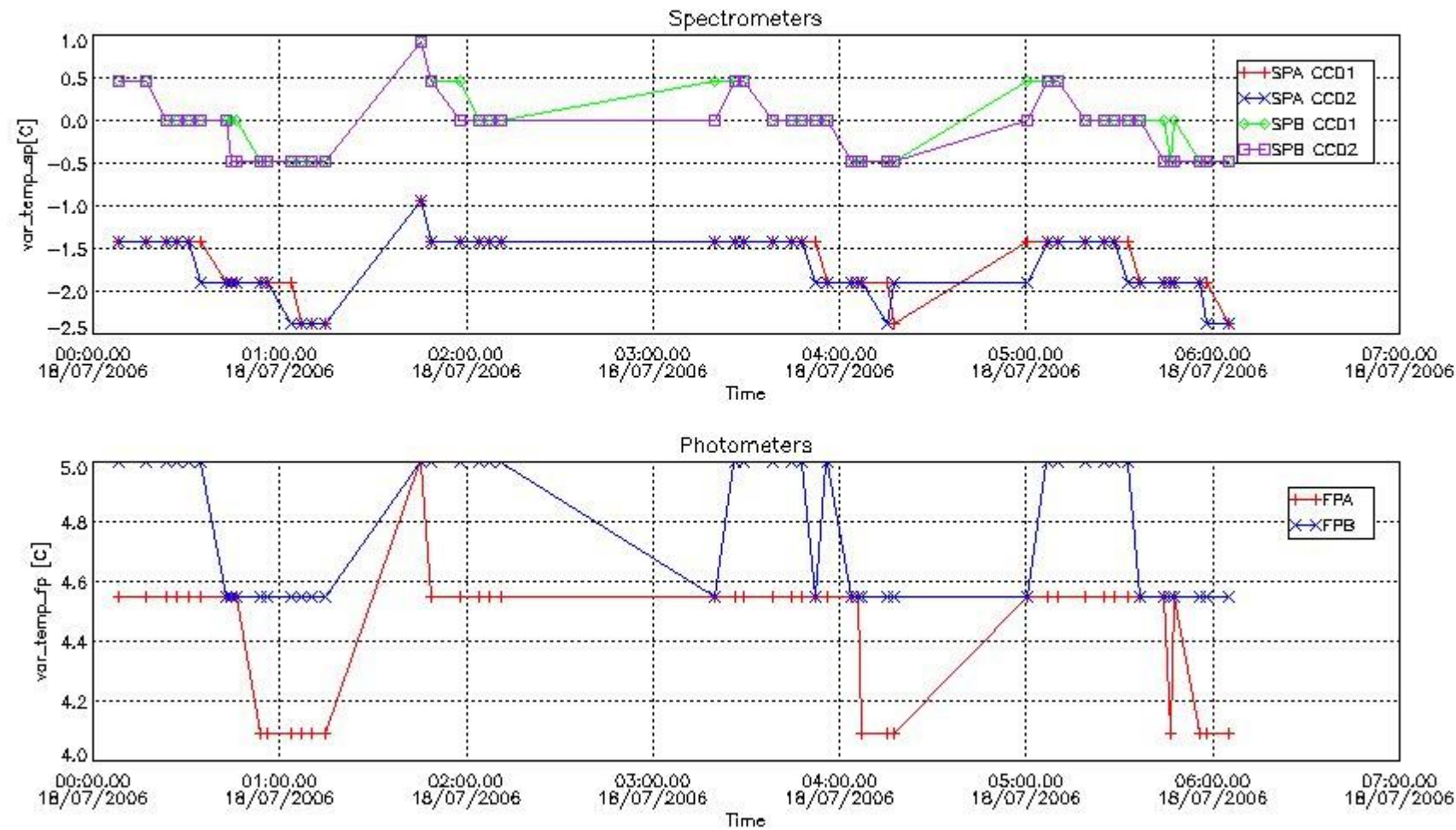
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 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_1PNPDE20060718_000814_000000472049_00302_22901_0000.N1	18-JUL-2006 00:08:14	Dark	47.000	165	34Gam Eri	2.9500	3200.0	94	22901	No
2	GOM_TRA_1PNPDE20060718_001717_000000442049_00302_22901_0001.N1	18-JUL-2006 00:17:17	Dark	43.500	157	The1Eri	2.9060	9300.0	87	22901	No
3	GOM_TRA_1PNPDE20060718_002324_000000522049_00303_22902_0002.N1	18-JUL-2006 00:23:24	Dark	52.000	9	Alp Eri	0.45300	24000.	104	22902	No
4	GOM_TRA_1PNPDE20060718_002646_000000372049_00303_22902_0003.N1	18-JUL-2006 00:26:46	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	22902	No
5	GOM_TRA_1PNPDE20060718_003052_000000442049_00303_22902_0004.N1	18-JUL-2006 00:30:52	Twilight	43.500	148	Alp Tuc	2.8780	4100.0	87	22902	No
6	GOM_TRA_1PNPDE20060718_003440_000000392049_00303_22902_0005.N1	18-JUL-2006 00:34:40	Twilight	38.500	45	Alp Pav	1.9400	26000.	77	22902	No
7	GOM_TRA_1PNPDE20060718_004239_000000402049_00303_22902_0006.N1	18-JUL-2006 00:42:39	Bright	40.000	38	20Eps Sgr	1.8360	11000.	80	22902	No
8	GOM_TRA_1PNPDE20060718_004432_000000392049_00303_22902_0007.N1	18-JUL-2006 00:44:32	Bright	39.000	57	34Sig Sgr	2.0660	26000.	78	22902	No
9	GOM_TRA_1PNPDE20060718_004554_000000372049_00303_22902_0008.N1	18-JUL-2006 00:45:54	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	22902	No
10	GOM_TRA_1PNPDE20060718_005351_000000362049_00303_22902_0009.N1	18-JUL-2006 00:53:51	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	22902	No
11	GOM_TRA_1PNPDE20060718_005608_000000352049_00303_22902_0010.N1	18-JUL-2006 00:56:08	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	22902	No
12	GOM_TRA_1PNPDE20060718_010329_000000392049_00303_22902_0011.N1	18-JUL-2006 01:03:29	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	22902	No
13	GOM_TRA_1PNPDE20060718_010654_000000332049_00303_22902_0012.N1	18-JUL-2006 01:06:54	Bright	33.000	69	33Gam Dra	2.2310	3800.0	66	22902	No
14	GOM_TRA_1PNPDE20060718_011013_000000362049_00303_22902_0013.N1	18-JUL-2006 01:10:13	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	22902	No
15	GOM_TRA_1PNPDE20060718_011427_000000332049_00303_22902_0014.N1	18-JUL-2006 01:14:27	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	22902	No
16	GOM_TRA_1PNPDE20060718_014536_000000402049_00303_22902_0000.N1	18-JUL-2006 01:45:36	Dark	39.500	7	19Bet Ori	0.10000	14000.	79	22902	Yes
17	GOM_TRA_1PNPDE20060718_014850_000000482049_00303_22902_0001.N1	18-JUL-2006 01:48:50	Dark	47.500	165	34Gam Eri	2.9500	3200.0	95	22902	No
18	GOM_TRA_1PNPDE20060718_015754_000000422049_00303_22902_0002.N1	18-JUL-2006 01:57:54	Dark	42.000	157	The1Eri	2.9060	9300.0	84	22902	No
19	GOM_TRA_1PNPDE20060718_020400_000000412049_00304_22903_0003.N1	18-JUL-2006 02:04:00	Dark	41.000	9	Alp Eri	0.45300	24000.	82	22903	No
20	GOM_TRA_1PNPDE20060718_020722_000000372049_00304_22903_0004.N1	18-JUL-2006 02:07:22	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22903	No
21	GOM_TRA_1PNPDE20060718_021128_000000432049_00304_22903_0005.N1	18-JUL-2006 02:11:28	Twilight	42.500	148	Alp Tuc	2.8780	4100.0	85	22903	No
22	GOM_TRA_1PNPDE20060718_031953_000000452049_00304_22903_0000.N1	18-JUL-2006 03:19:53	Twilight	45.000	13	87Alp Tau	0.86700	3800.0	90	22903	No
23	GOM_TRA_1PNPDE20060718_032612_000000412049_00304_22903_0001.N1	18-JUL-2006 03:26:12	Dark	41.000	7	19Bet Ori	0.10000	14000.	82	22903	No
24	GOM_TRA_1PNPDE20060718_032926_000000472049_00304_22903_0002.N1	18-JUL-2006 03:29:26	Dark	47.000	165	34Gam Eri	2.9500	3200.0	94	22903	No
25	GOM_TRA_1PNPDE20060718_033831_000000412049_00304_22903_0003.N1	18-JUL-2006 03:38:31	Dark	41.000	157	The1Eri	2.9060	9300.0	82	22903	No
26	GOM_TRA_1PNPDE20060718_034437_000000522049_00305_22904_0004.N1	18-JUL-2006 03:44:37	Dark	52.000	9	Alp Eri	0.45300	24000.	104	22904	No
27	GOM_TRA_1PNPDE20060718_034758_000000372049_00305_22904_0005.N1	18-JUL-2006 03:47:58	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22904	No
28	GOM_TRA_1PNPDE20060718_035205_000000442049_00305_22904_0006.N1	18-JUL-2006 03:52:05	Twilight	43.500	148	Alp Tuc	2.8780	4100.0	87	22904	No
29	GOM_TRA_1PNPDE20060718_035552_000000392049_00305_22904_0007.N1	18-JUL-2006 03:55:52	Twilight	39.000	45	Alp Pav	1.9400	26000.	78	22904	No
30	GOM_TRA_1PNPDE20060718_040351_000000432049_00305_22904_0008.N1	18-JUL-2006 04:03:51	Bright	42.500	38	20Eps Sgr	1.8360	11000.	85	22904	No
31	GOM_TRA_1PNPDE20060718_040545_000000392049_00305_22904_0009.N1	18-JUL-2006 04:05:45	Bright	39.000	57	34Sig Sgr	2.0660	26000.	78	22904	No
32	GOM_TRA_1PNPDE20060718_040707_000000392049_00305_22904_0010.N1	18-JUL-2006 04:07:07	Bright	39.000	155	41Pi Sgr	2.9000	6600.0	78	22904	No
33	GOM_TRA_1PNPDE20060718_041503_000000352049_00305_22904_0011.N1	18-JUL-2006 04:15:03	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	22904	No
34	GOM_TRA_1PNPDE20060718_041721_000000372049_00305_22904_0012.N1	18-JUL-2006 04:17:21	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	22904	No
35	GOM_TRA_1PNPDE20060718_050030_000000512049_00305_22904_0000.N1	18-JUL-2006 05:00:30	Twilight	50.500	13	87Alp Tau	0.86700	3800.0	101	22904	No
36	GOM_TRA_1PNPDE20060718_050649_000000372049_00305_22904_0001.N1	18-JUL-2006 05:06:49	Dark	37.000	7	19Bet Ori	0.10000	14000.	74	22904	No
37	GOM_TRA_1PNPDE20060718_051003_000000482049_00305_22904_0002.N1	18-JUL-2006 05:10:03	Dark	48.000	165	34Gam Eri	2.9500	3200.0	96	22904	No
38	GOM_TRA_1PNPDE20060718_051907_000000422049_00305_22904_0003.N1	18-JUL-2006 05:19:07	Dark	41.500	157	The1Eri	2.9060	9300.0	83	22904	No
39	GOM_TRA_1PNPDE20060718_052514_000000412049_00306_22905_0004.N1	18-JUL-2006 05:25:14	Dark	41.000	9	Alp Eri	0.45300	24000.	82	22905	No
40	GOM_TRA_1PNPDE20060718_052834_000000372049_00306_22905_0005.N1	18-JUL-2006 05:28:34	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22905	No
41	GOM_TRA_1PNPDE20060718_053241_000000432049_00306_22905_0006.N1	18-JUL-2006 05:32:41	Twilight	42.500	148	Alp Tuc	2.8780	4100.0	85	22905	No
42	GOM_TRA_1PNPDE20060718_053629_000000422049_00306_22905_0007.N1	18-JUL-2006 05:36:29	Twilight	41.500	45	Alp Pav	1.9400	26000.	83	22905	No

43	GOM_TRA_1PNPDE20060718_054427_000000422049_00306_22905_0008.N1	18-JUL-2006 05:44:27	Bright	42.000	38	20Eps Sgr	1.8360	11000.	84	22905	No
44	GOM_TRA_1PNPDE20060718_054621_000000372049_00306_22905_0009.N1	18-JUL-2006 05:46:21	Bright	37.000	57	34Sig Sgr	2.0660	26000.	74	22905	No
45	GOM_TRA_1PNPDE20060718_054743_000000392049_00306_22905_0010.N1	18-JUL-2006 05:47:43	Bright	38.500	155	41Pi Sgr	2.9000	6600.0	77	22905	No
46	GOM_TRA_1PNPDE20060718_055539_000000362049_00306_22905_0011.N1	18-JUL-2006 05:55:39	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	22905	No
47	GOM_TRA_1PNPDE20060718_055757_000000352049_00306_22905_0012.N1	18-JUL-2006 05:57:57	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	22905	No
48	GOM_TRA_1PNPDE20060718_060517_000000412049_00306_22905_0013.N1	18-JUL-2006 06:05:17	Bright	40.500	5	3Alp Lyr	0.033000	11000.	81	22905	No
49	GOM_TRA_1PNPDE20060718_204952_000000392049_00315_22914_0000.N1	18-JUL-2006 20:49:52	Bright	39.000	38	20Eps Sgr	1.8360	11000.	78	22914	No
50	GOM_TRA_1PNPDE20060718_205146_000000392049_00315_22914_0001.N1	18-JUL-2006 20:51:46	Bright	38.500	57	34Sig Sgr	2.0660	26000.	77	22914	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).

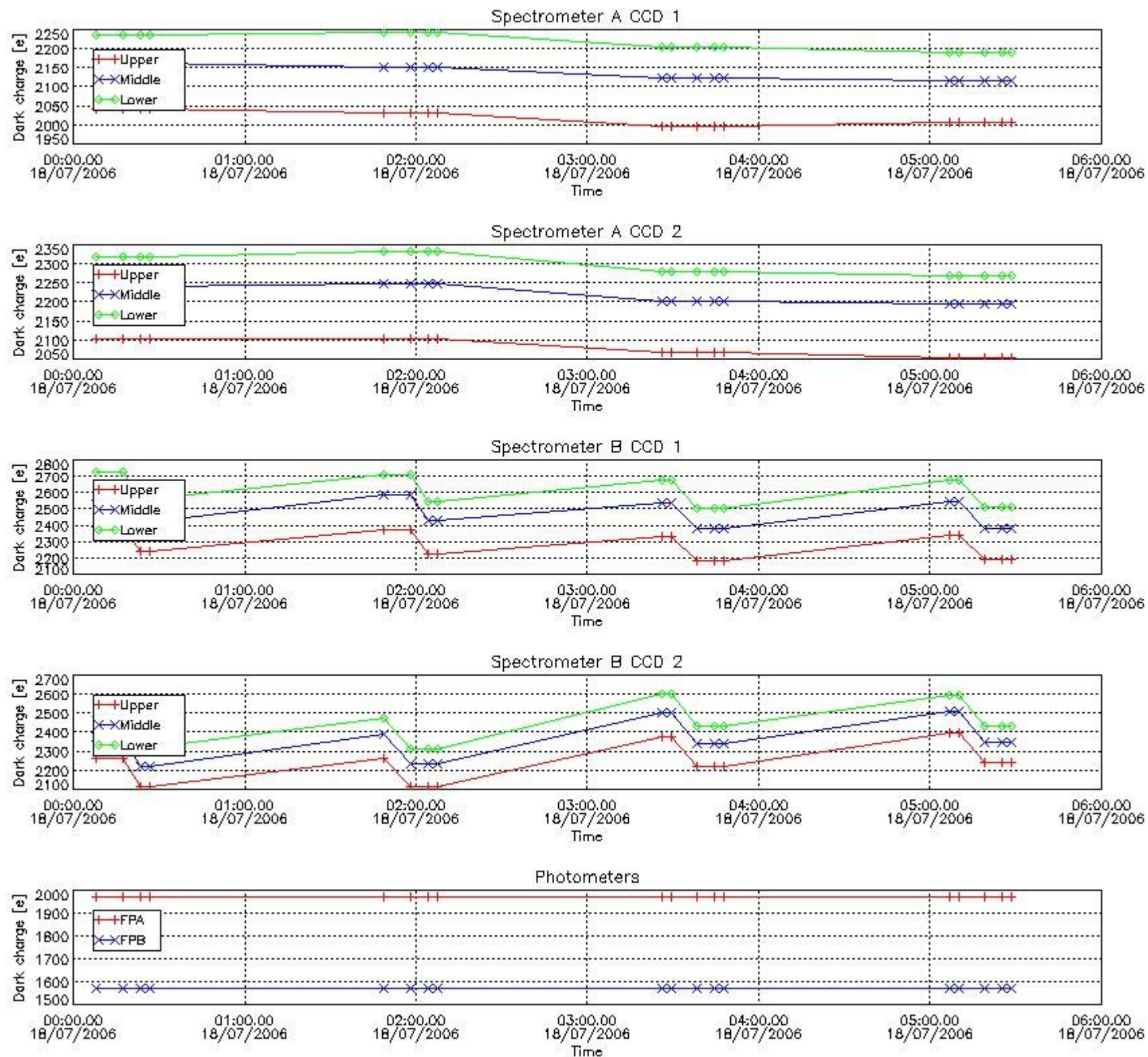
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20060718_204952_000000392049_00315_22914_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20060718_205146_000000392049_00315_22914_0001.N1	DC map used (0)



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



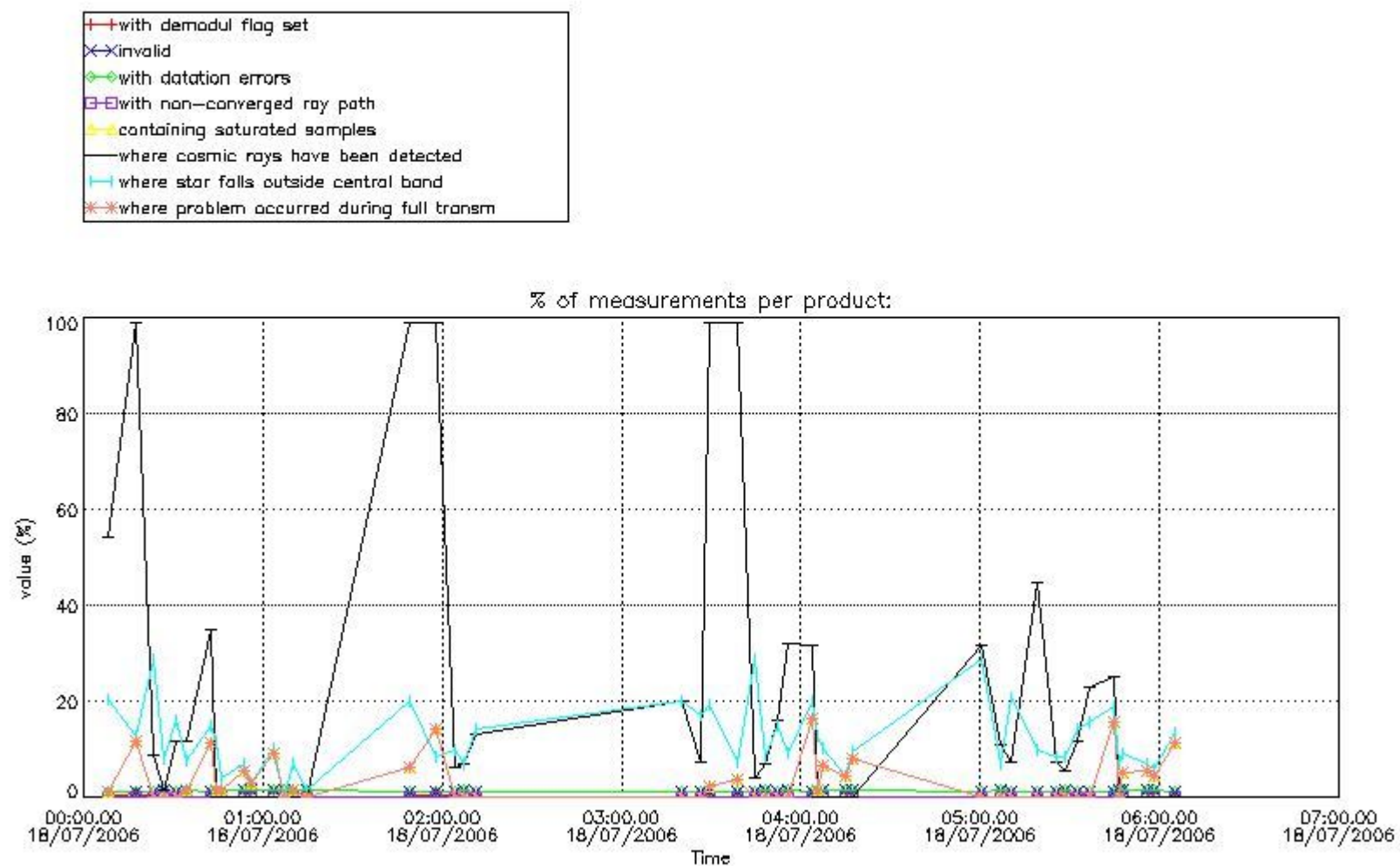
5. Demodulation flag and quality information monitoring

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:

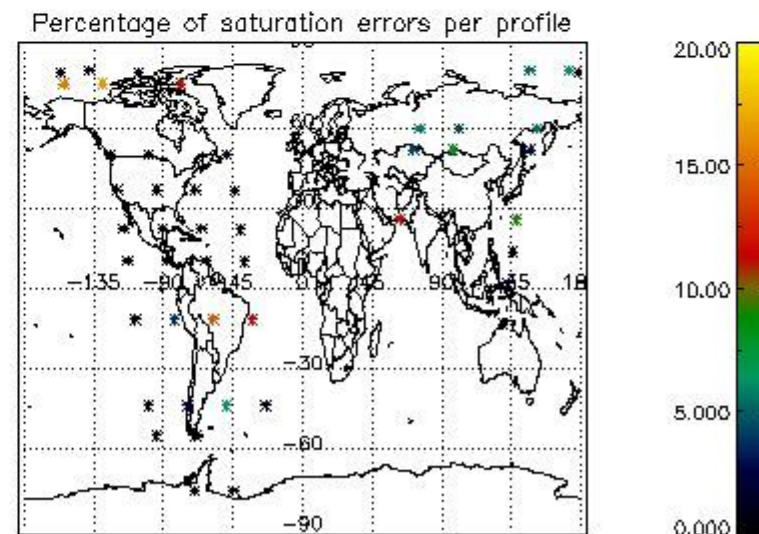
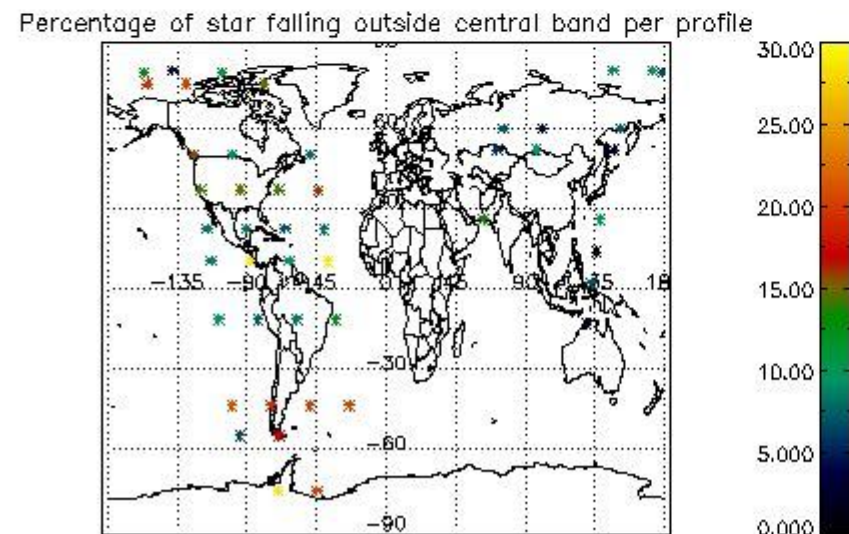
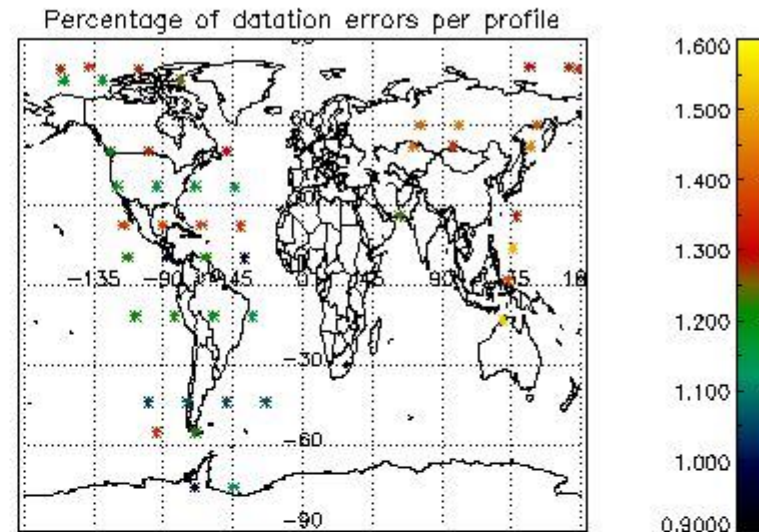
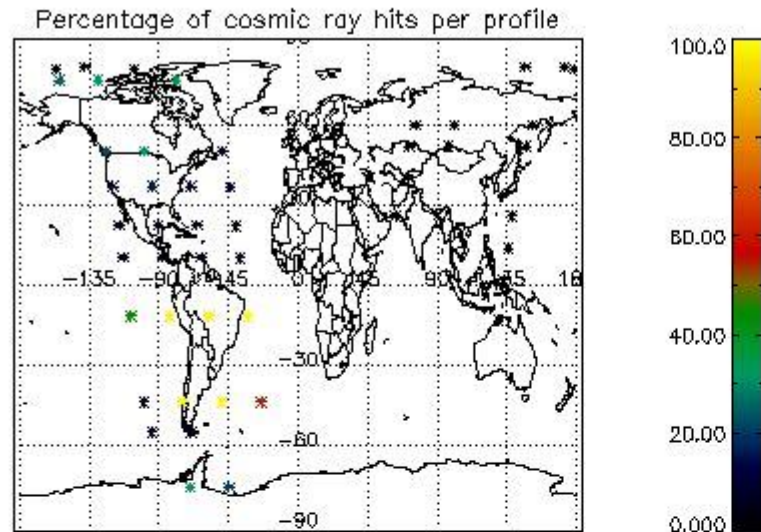
At least one measurement with demodulation flag set:	14.2857 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





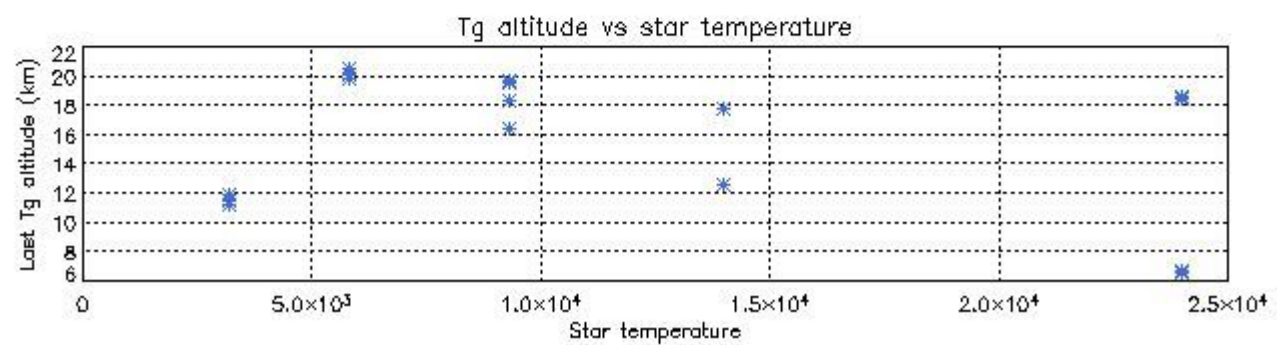
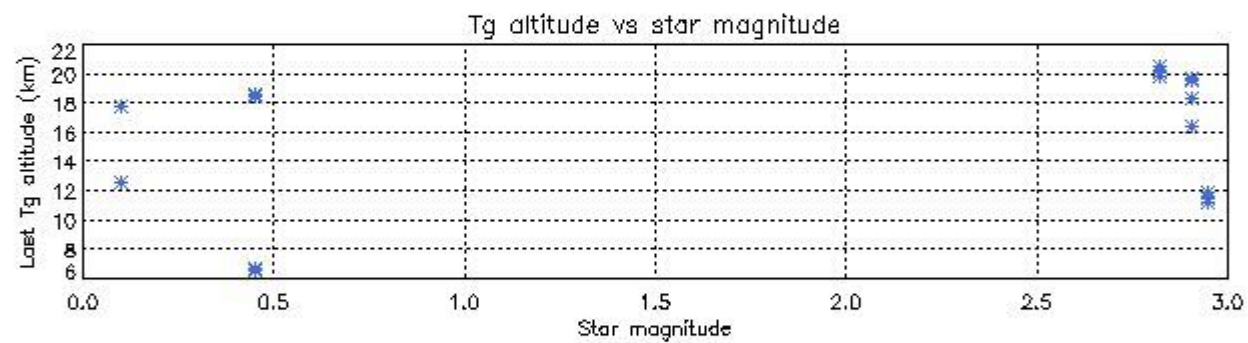
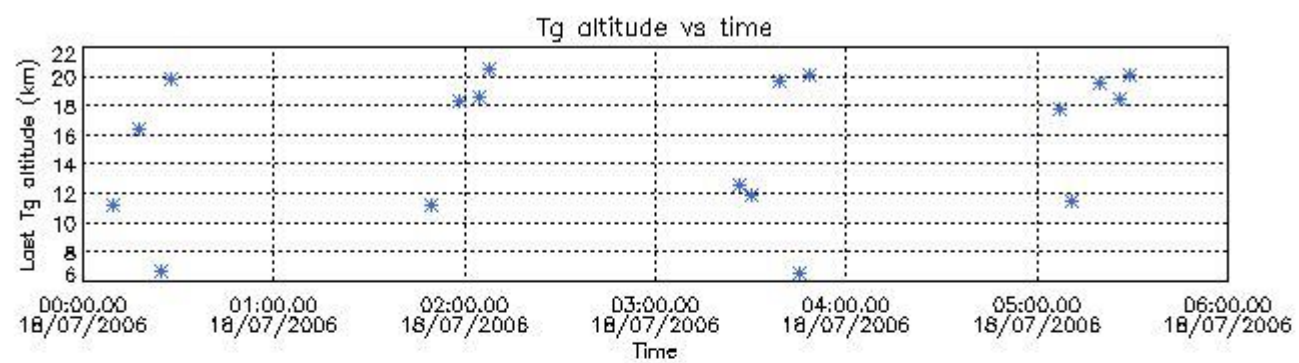
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.615	19.078	14.934
St. deviation:	4.7545	4.0546	3.6152
Maximum:	20.446	28.837	19.153
Minimum:	6.5898	12.179	7.4019
Number of data:	18.000	22.000	9.0000

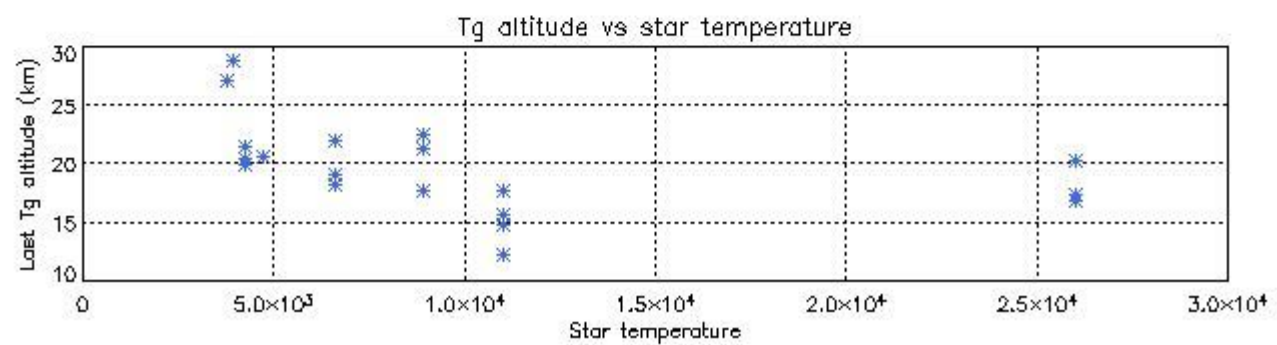
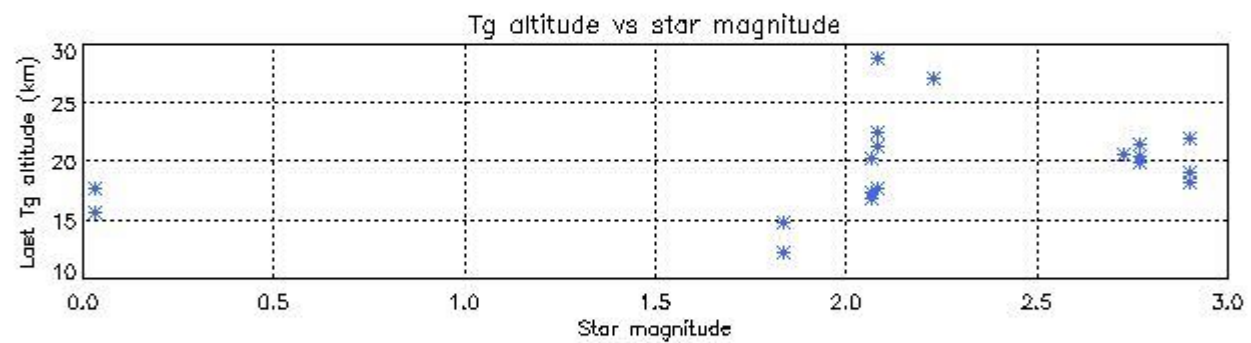
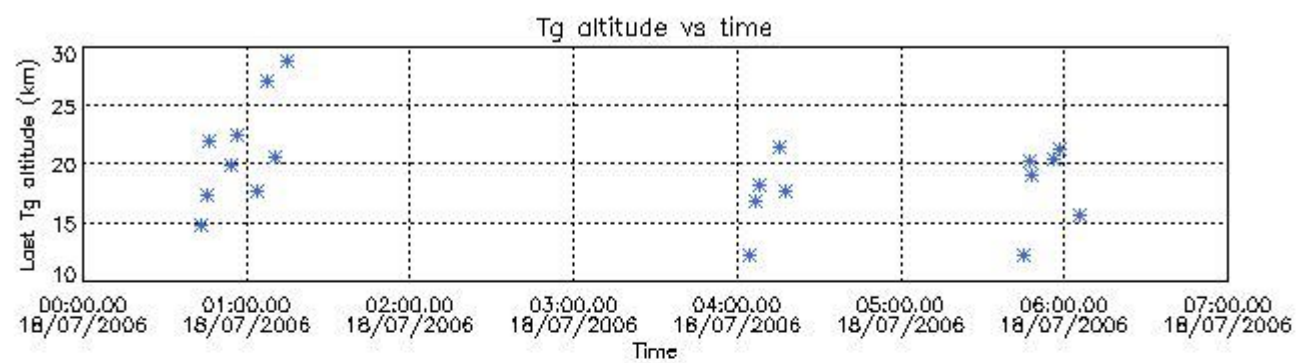
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

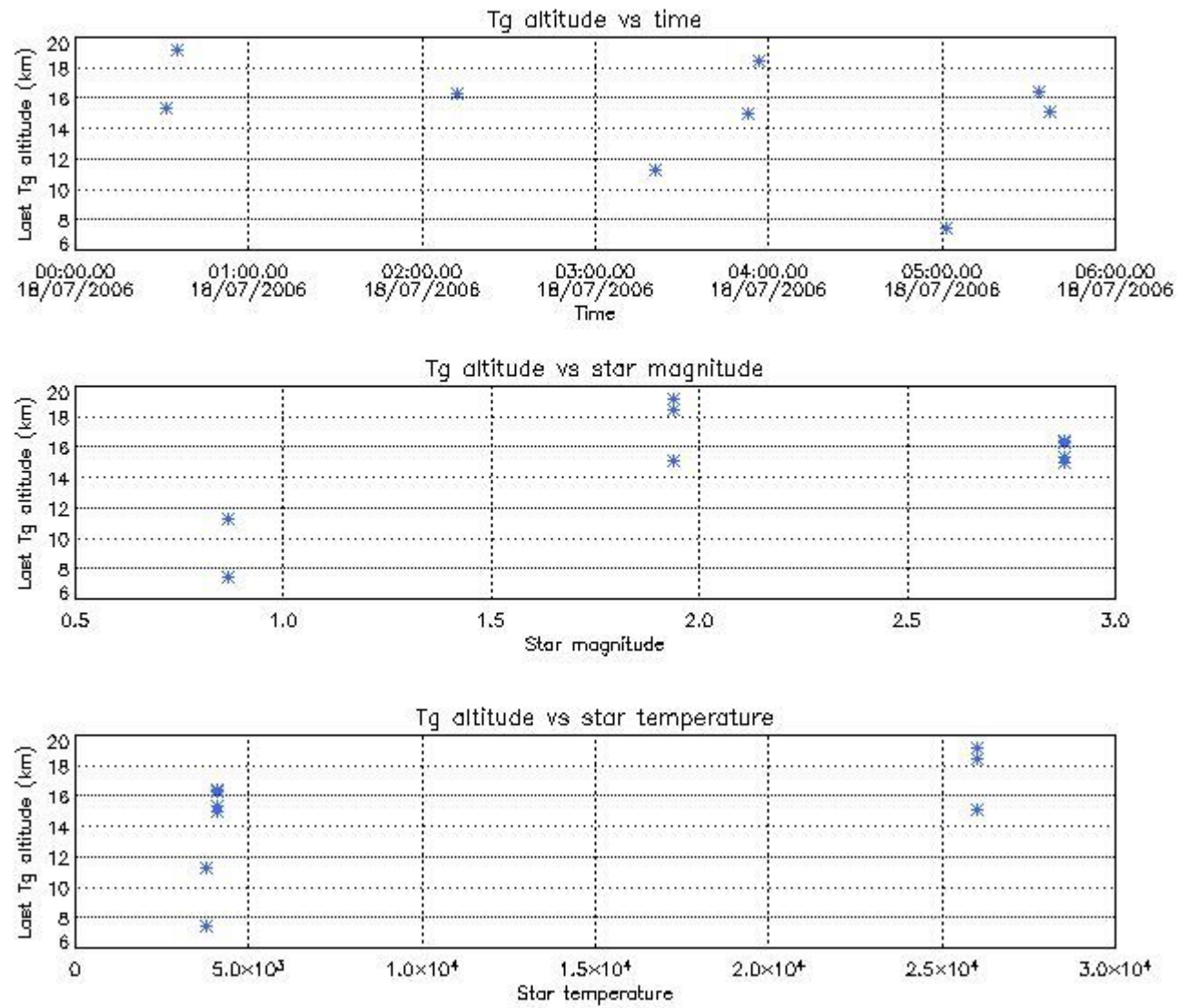
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



Tangent altitude at which the star is lost

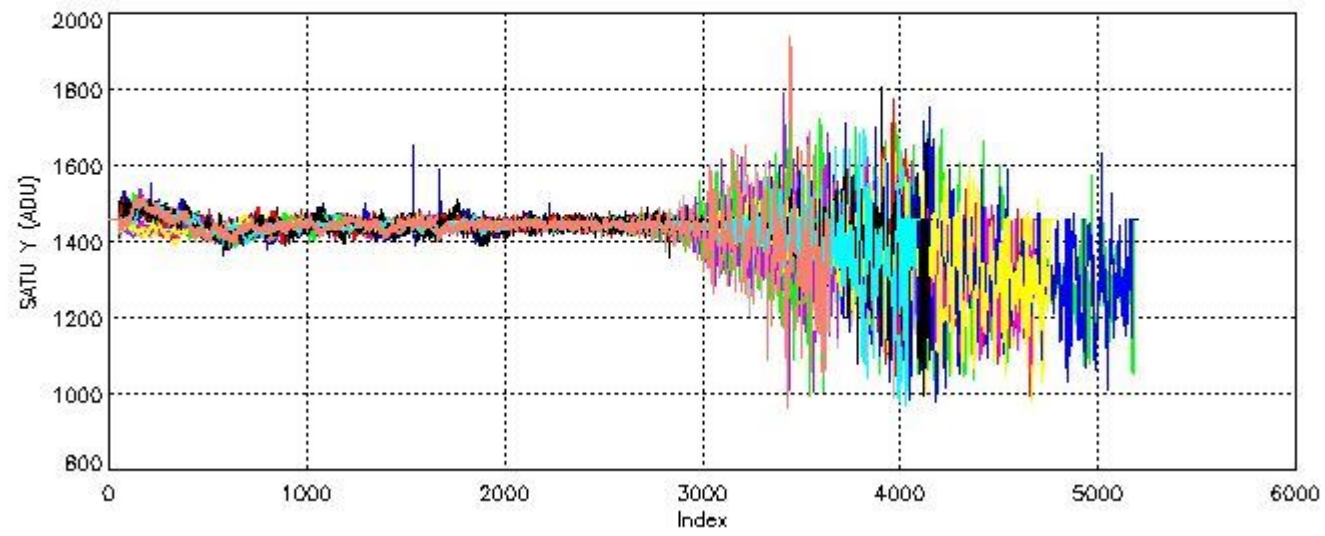
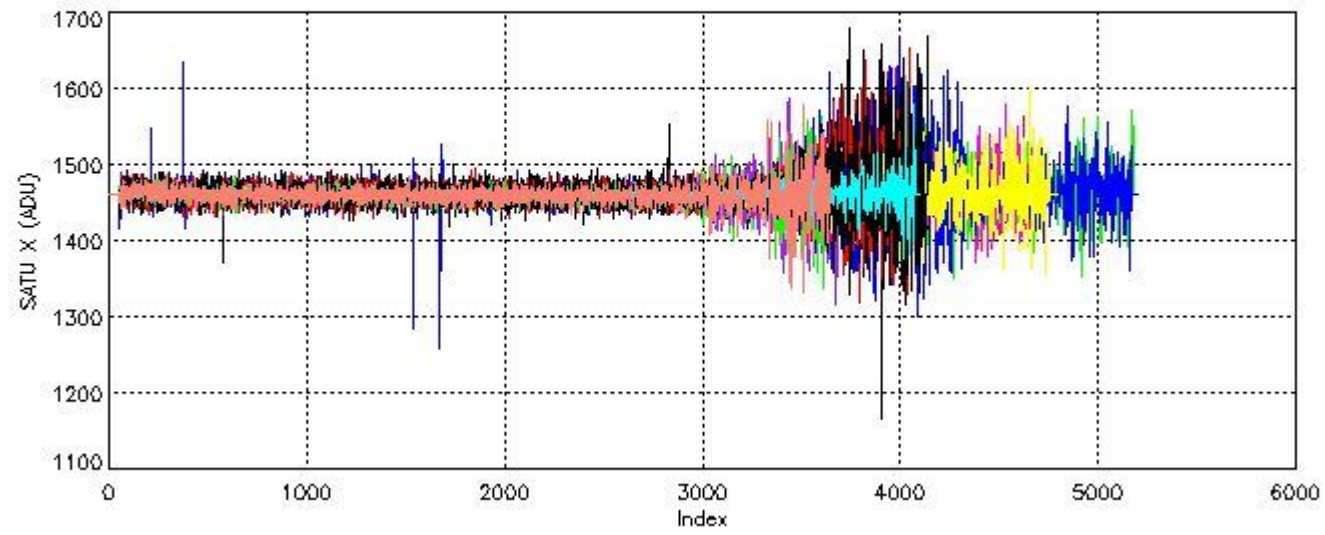


## 7. Star Acquisition and Tracking Unit (SATU)

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 ADU) 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.

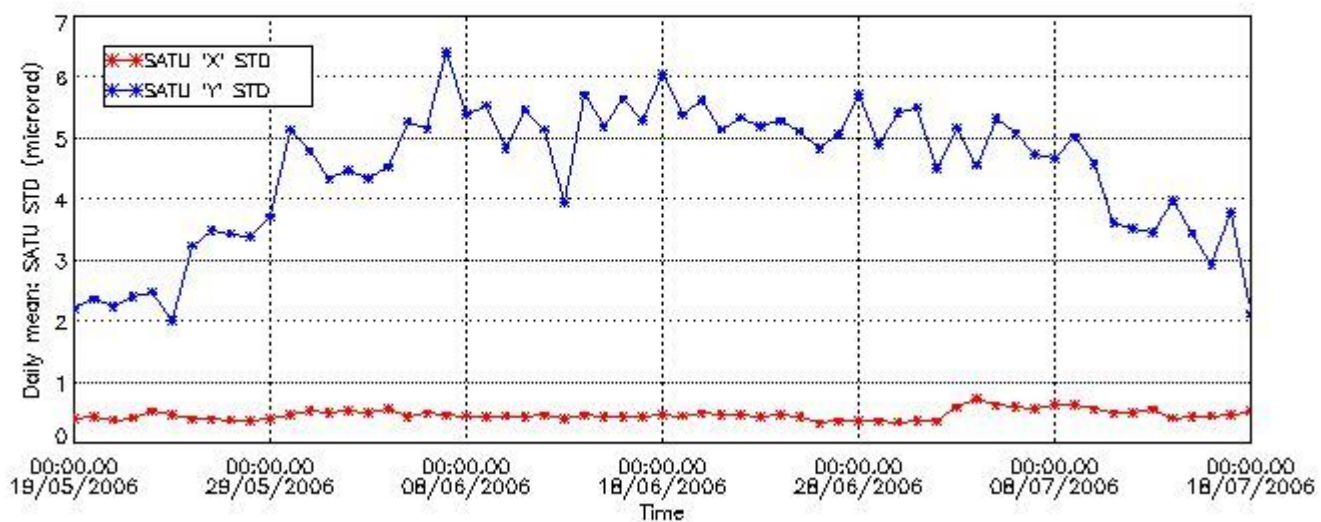
### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.3	1445.1	1460.8	1445.0
St. deviation:	5.2915	21.210	6.3046	21.994
Maximum:	1633.0	1550.0	1502.0	1525.0
Minimum:	1437.0	1390.0	1432.0	1384.0

Number of data:	17100.	17100.	18600.	18600.
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### 7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

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

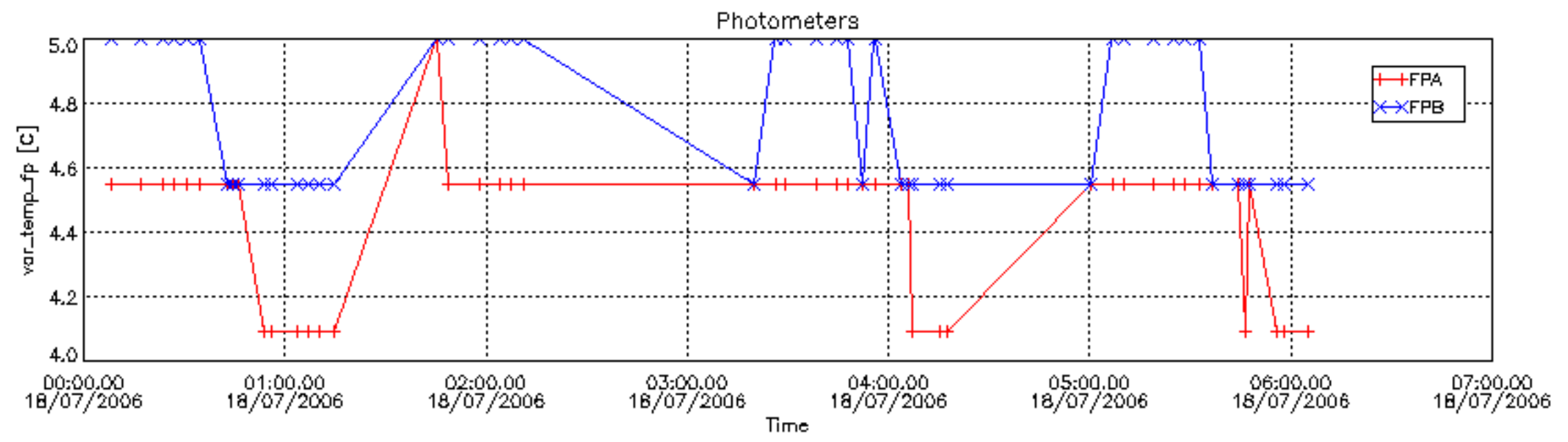
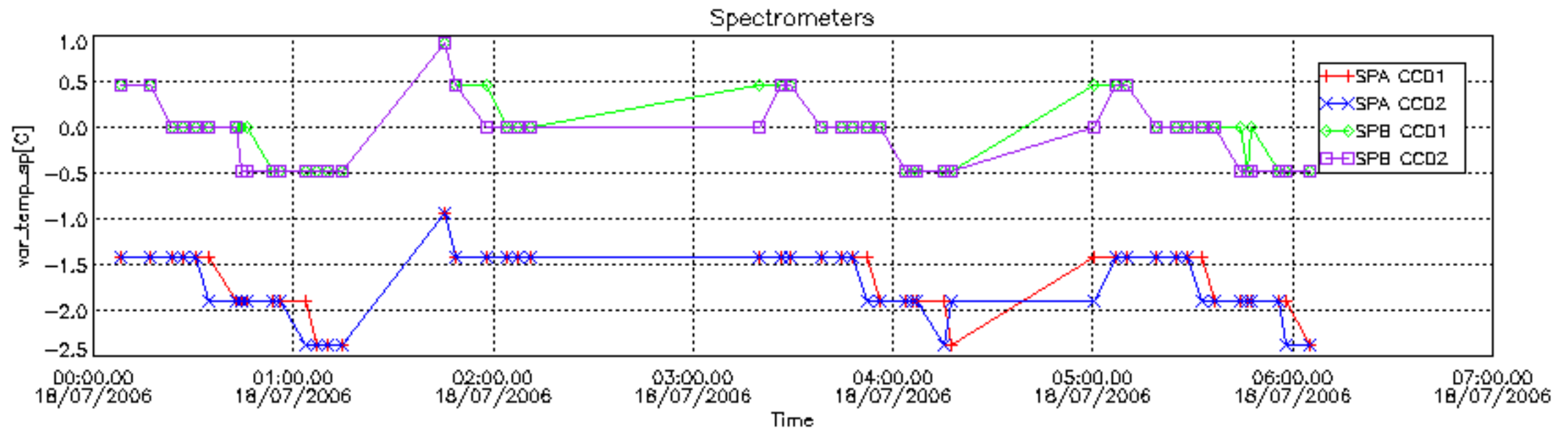


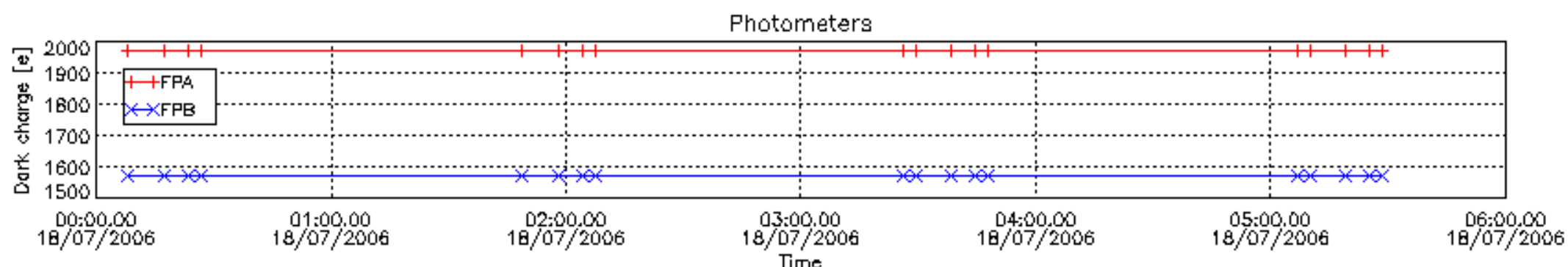
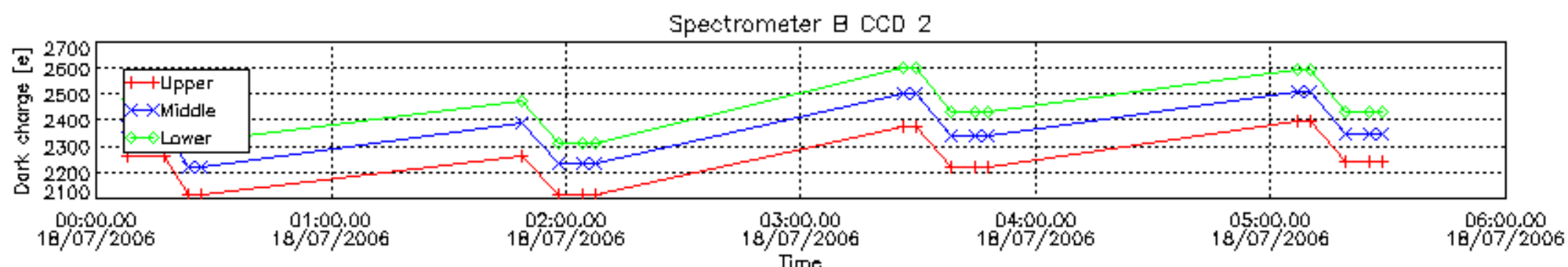
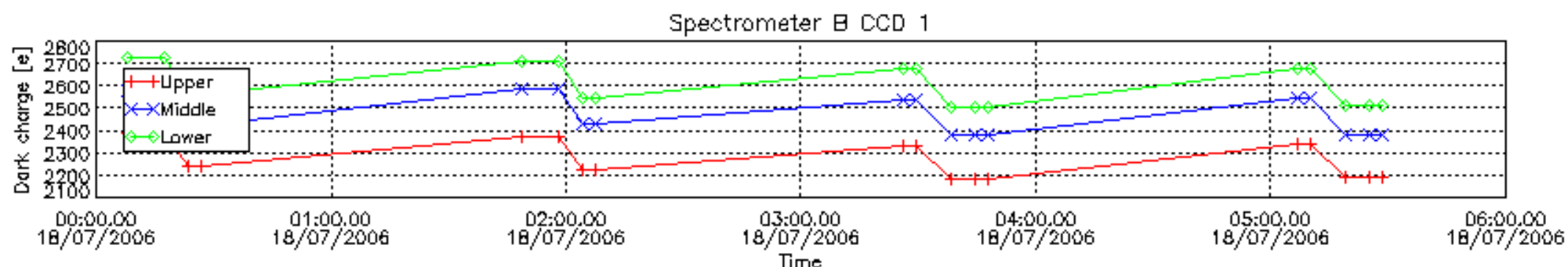
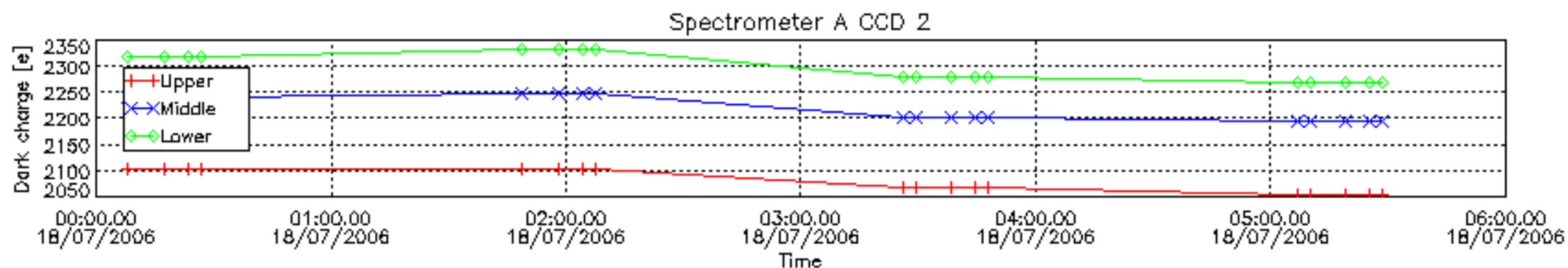
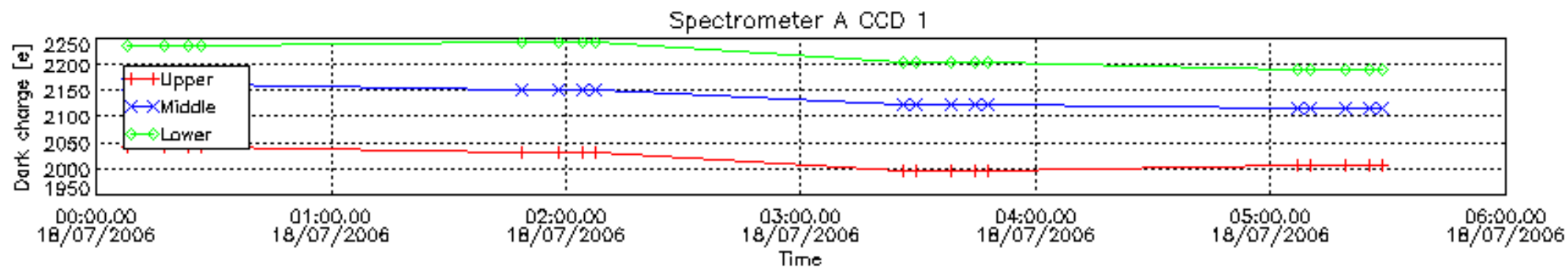
### 8. Auxiliary Data Files used for the production reported in section 2.2

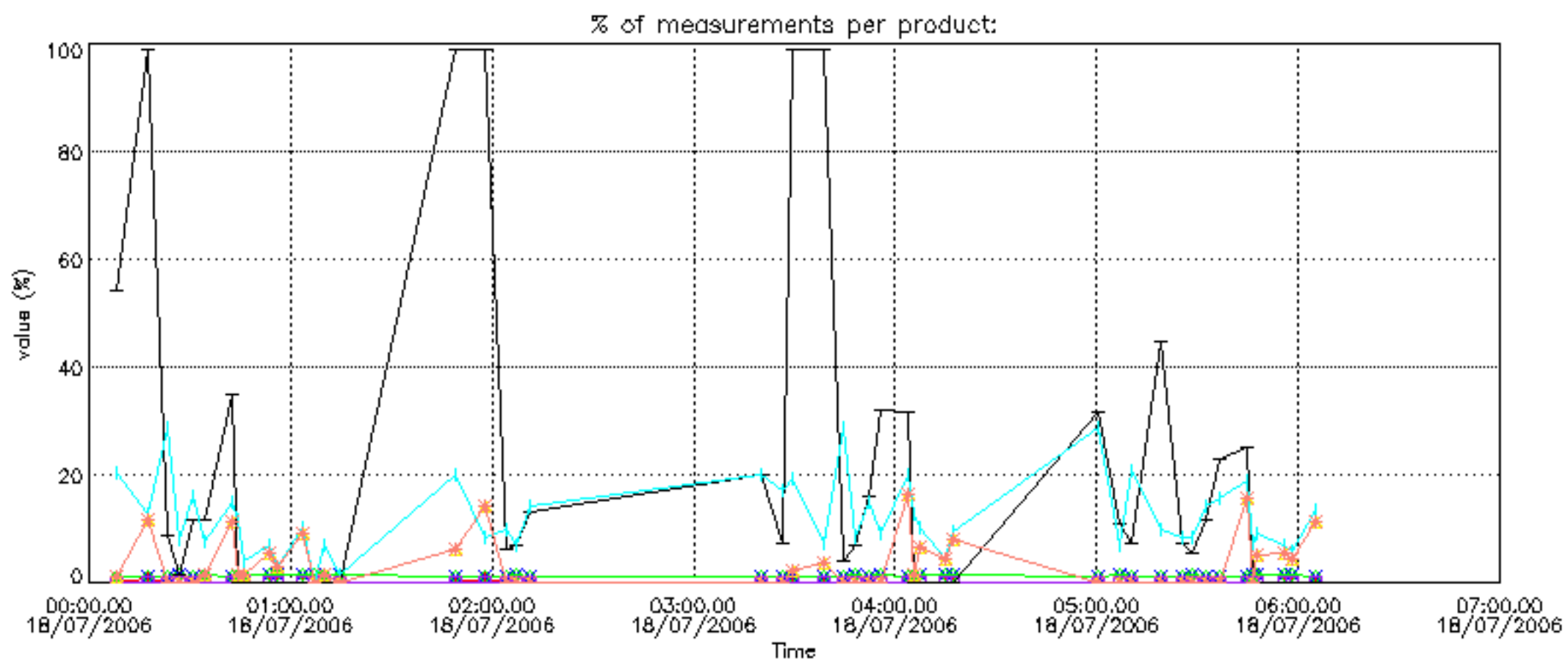
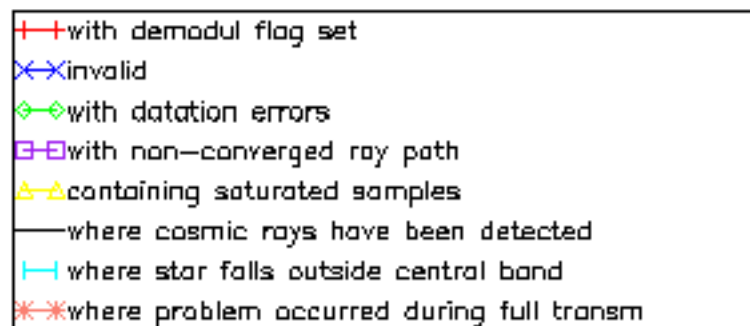
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	18-JUL-2006 00:08:14
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060712_153513_20060710_000000_20100101_000000	1	18-JUL-2006 00:08:14
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	18-JUL-2006 00:08:14
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-JUL-2006 00:08:14
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	18-JUL-2006 00:08:14
ECMWF_FILE	AUX_ECF_AXNECM20060717_061721_20060717_210000_20060718_090000	1	18-JUL-2006 00:08:14
ECMWF_FILE	AUX_ECF_AXNECM20060717_182441_20060718_030000_20060718_150000	35	18-JUL-2006 05:00:30
ECMWF_FILE	AUX_ECF_AXNECM20060718_061458_20060718_150000_20060719_030000	49	18-JUL-2006 20:49:52
OPTIONAL_ECMWF_FILE	NOT USED	1	18-JUL-2006 00:08:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060717_222510_000057382049_00301_22900_0145.N1	1	18-JUL-2006 00:08:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060718_000607_000054192049_00302_22901_0146.N1	16	18-JUL-2006 01:45:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060718_014146_000041442049_00303_22902_0147.N1	22	18-JUL-2006 03:19:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060718_025609_000057382049_00304_22903_0148.N1	35	18-JUL-2006 05:00:30
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20060717_223430_20060717_191844_20060727_204458	49	18-JUL-2006 20:49:52



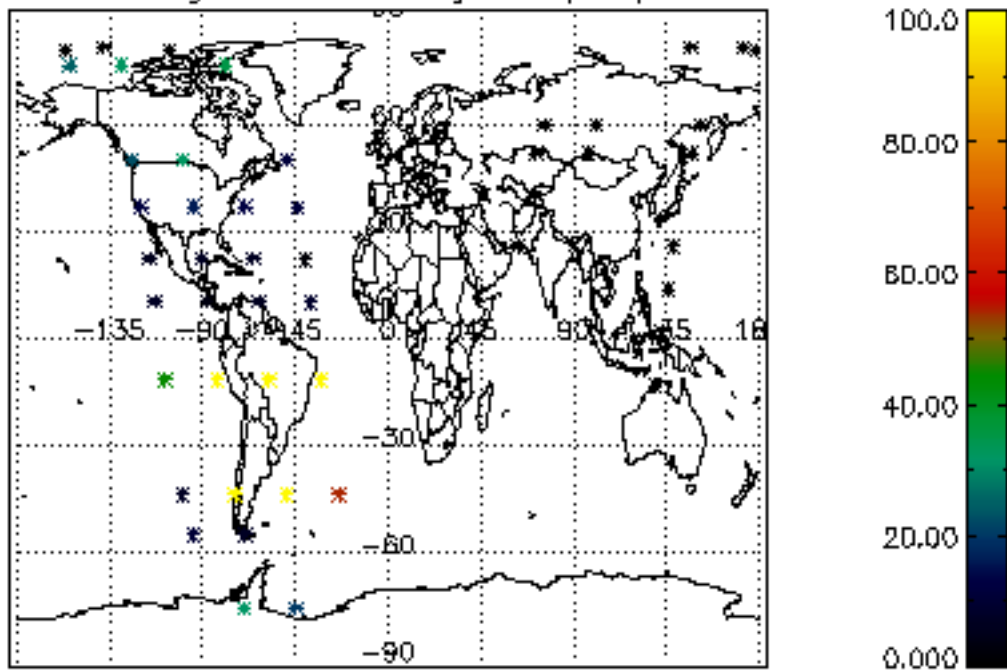




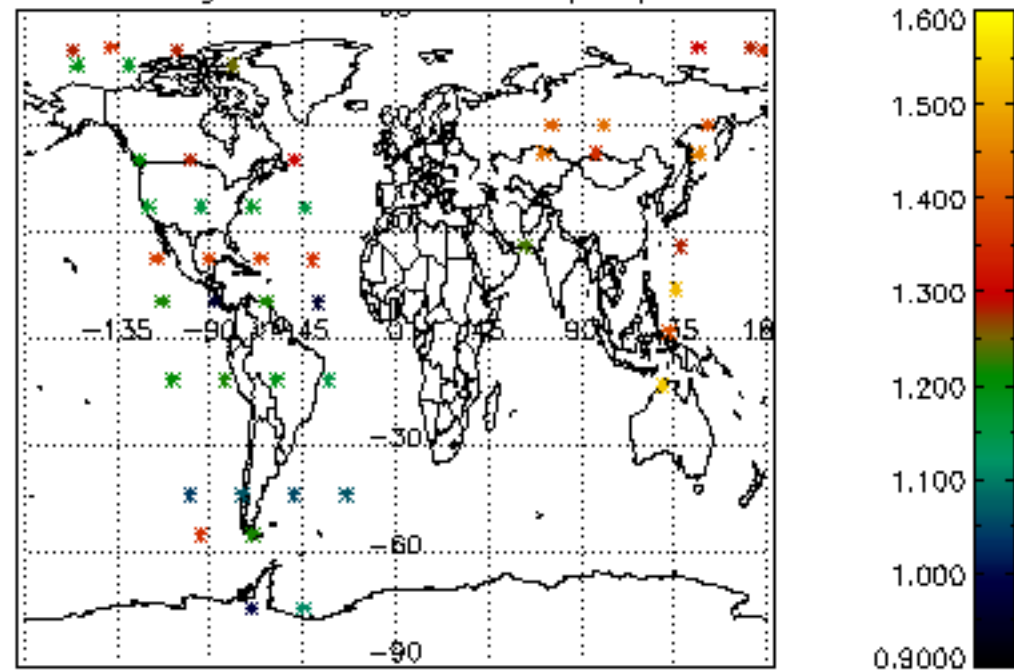




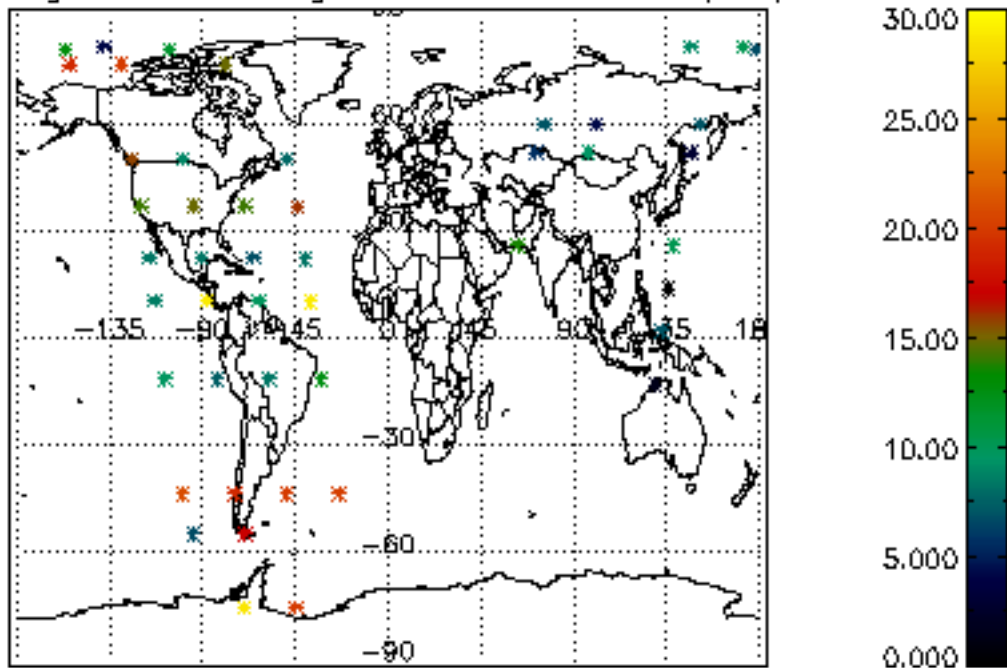
Percentage of cosmic ray hits per profile



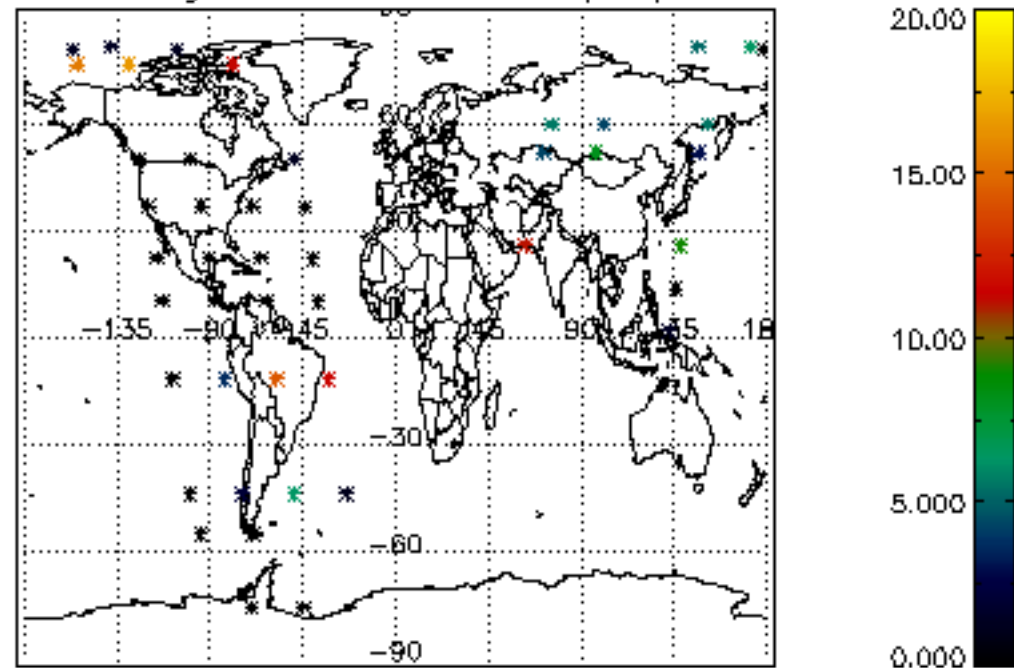
Percentage of datation errors per profile



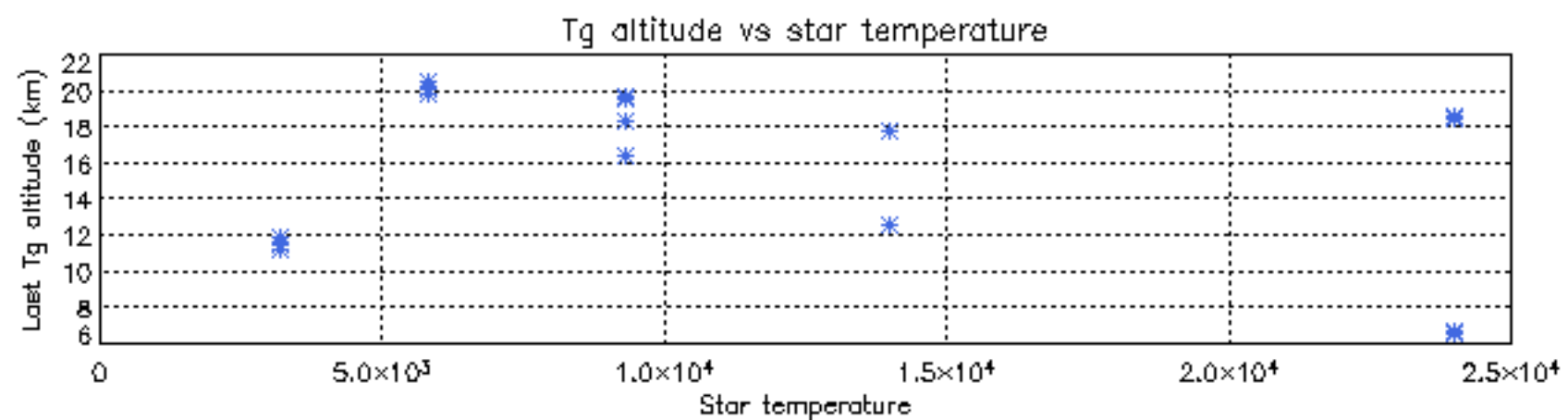
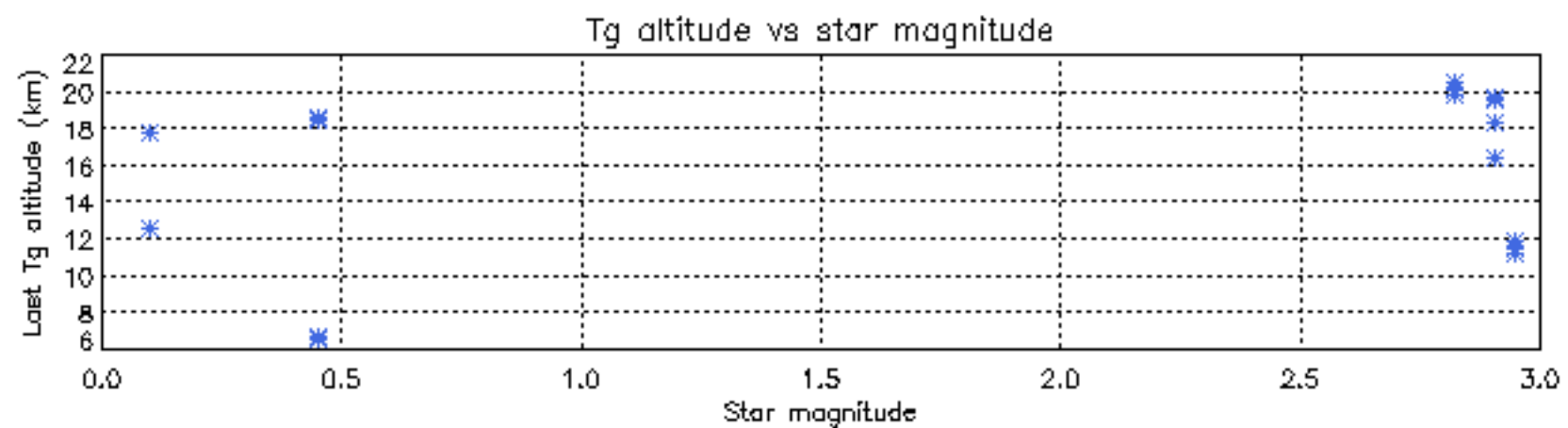
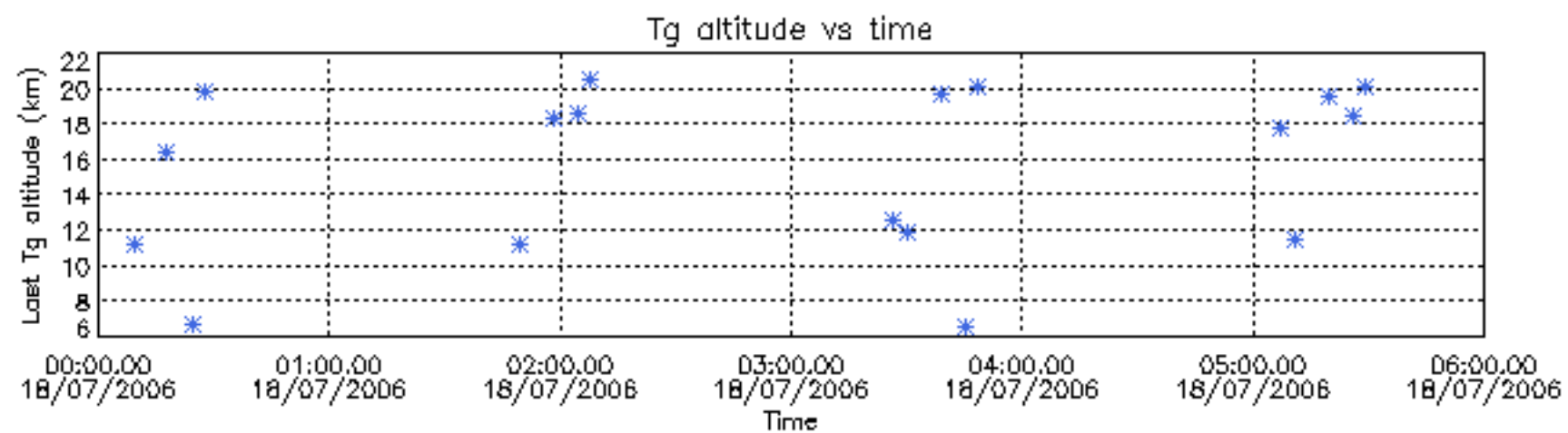
Percentage of star falling outside central band per profile



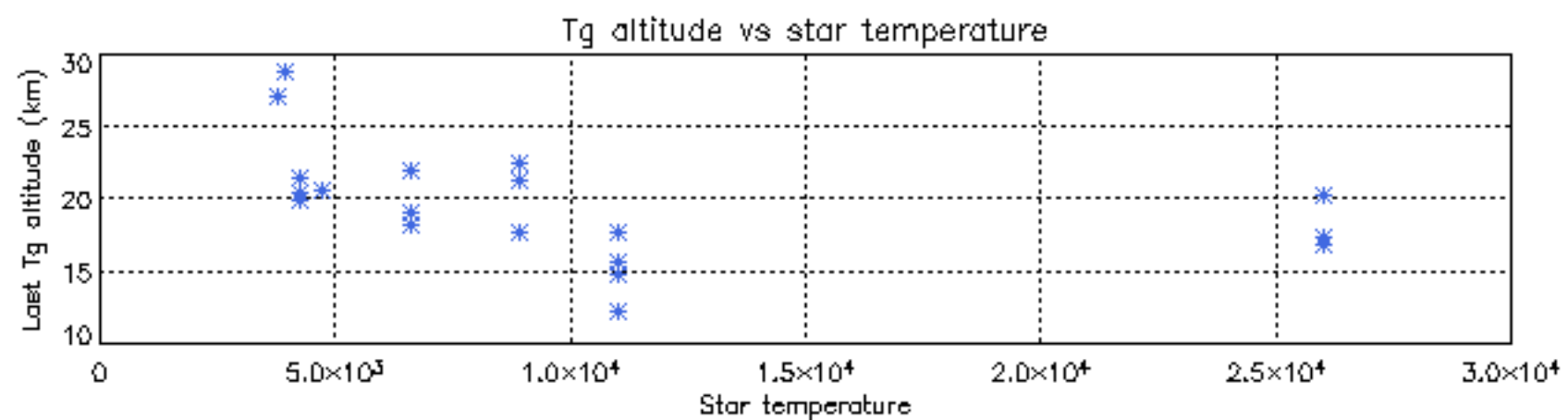
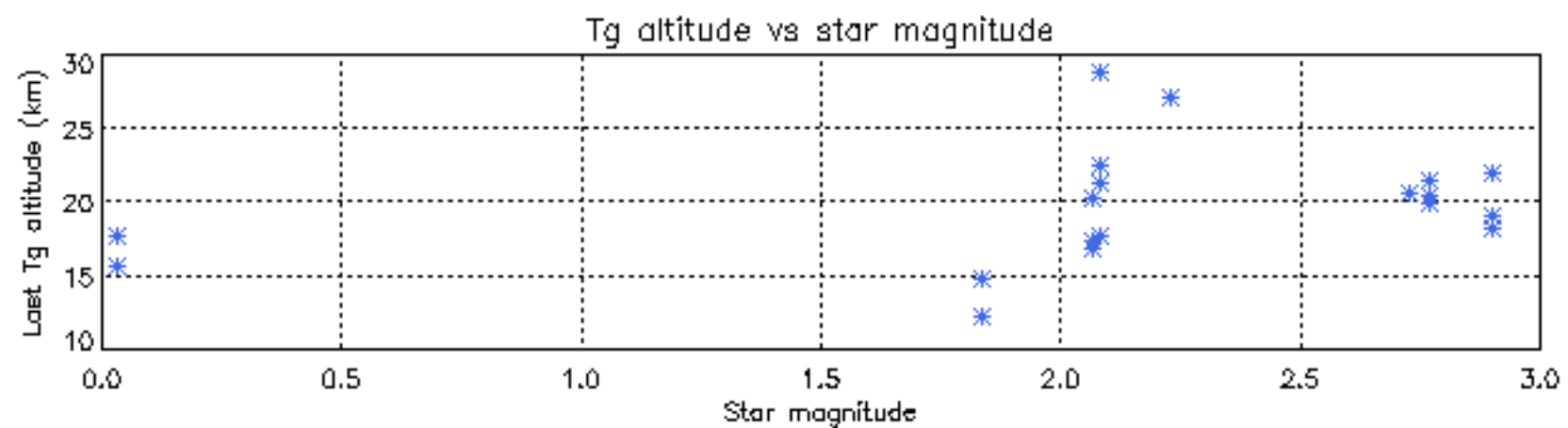
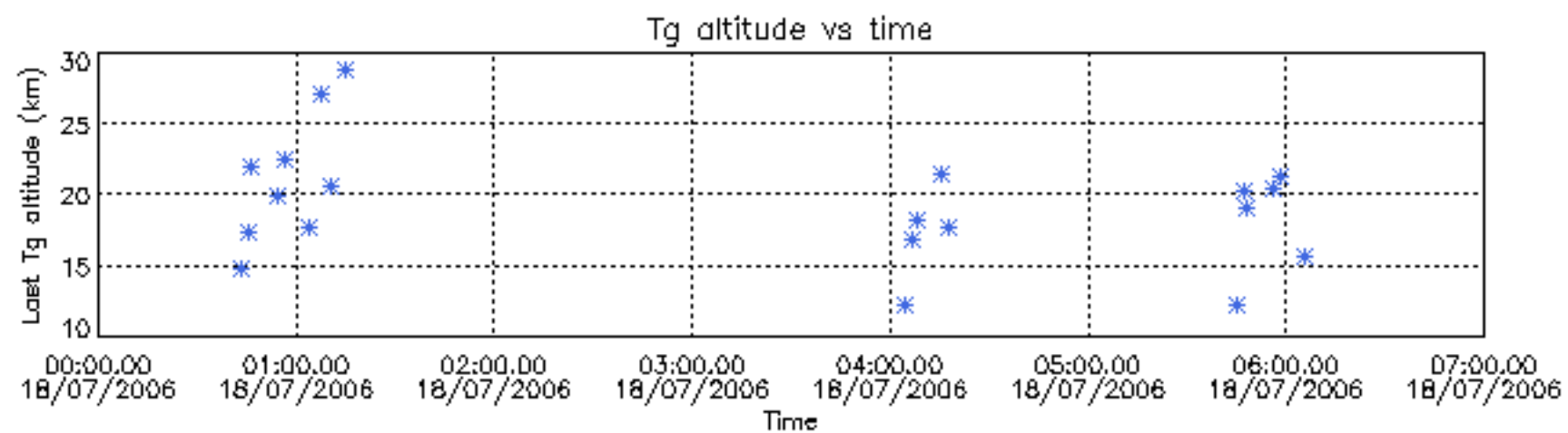
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

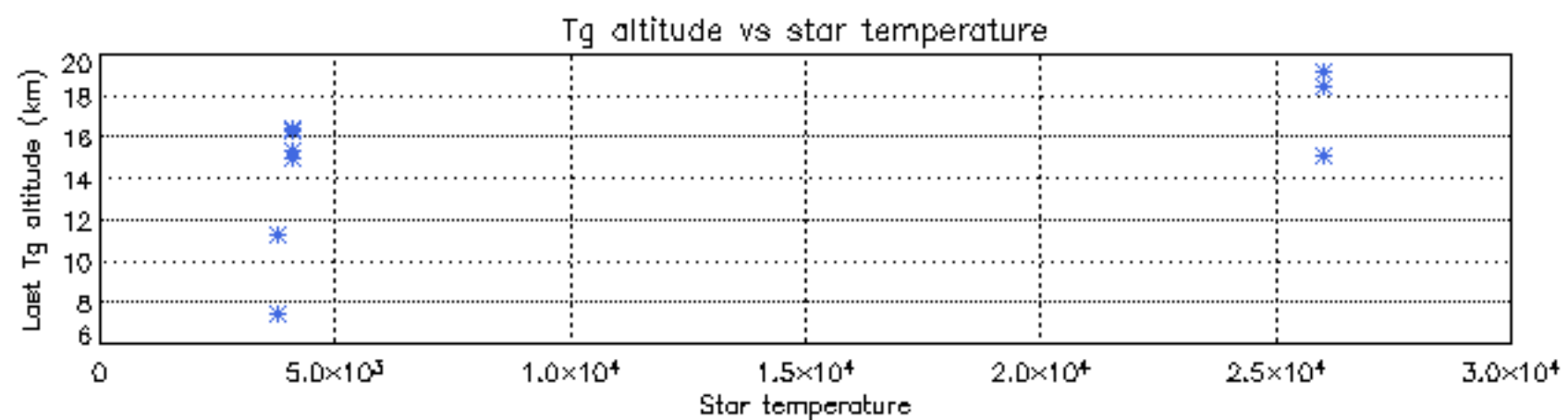
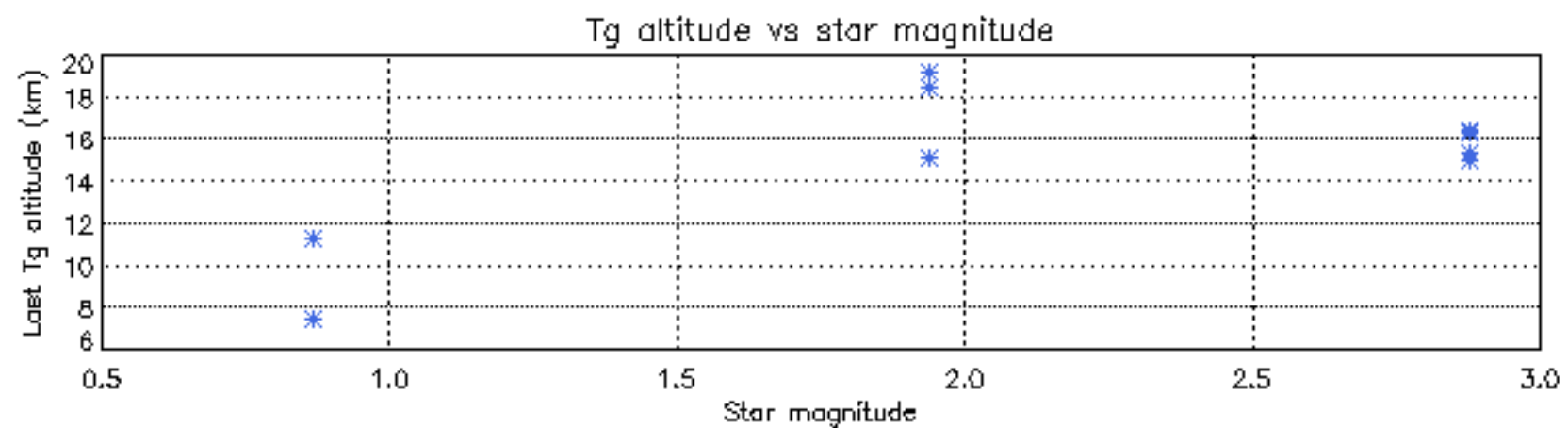
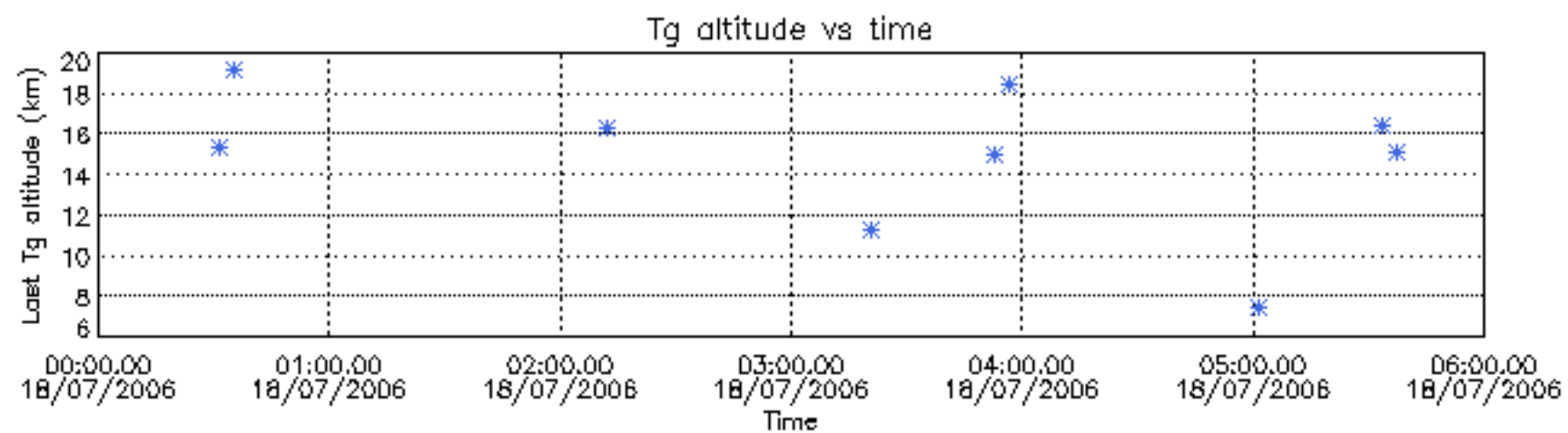


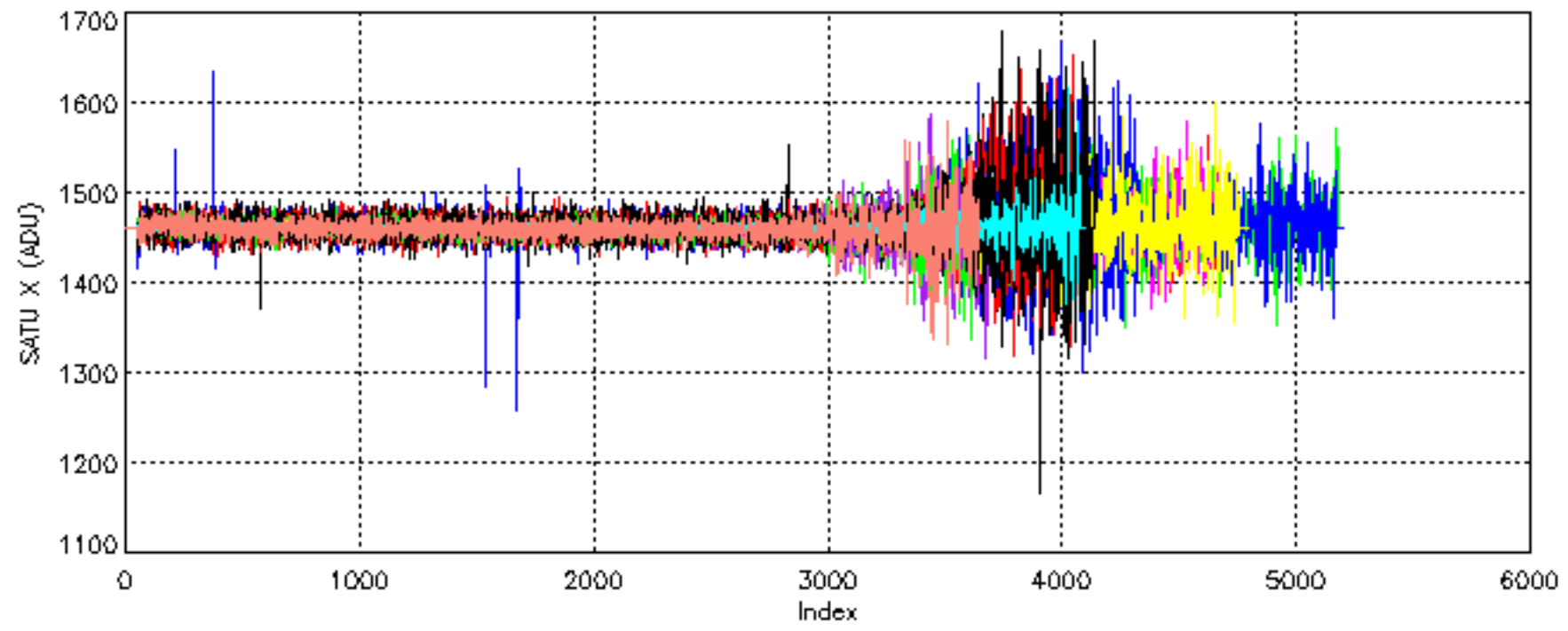
Tangent altitude at which the star is lost

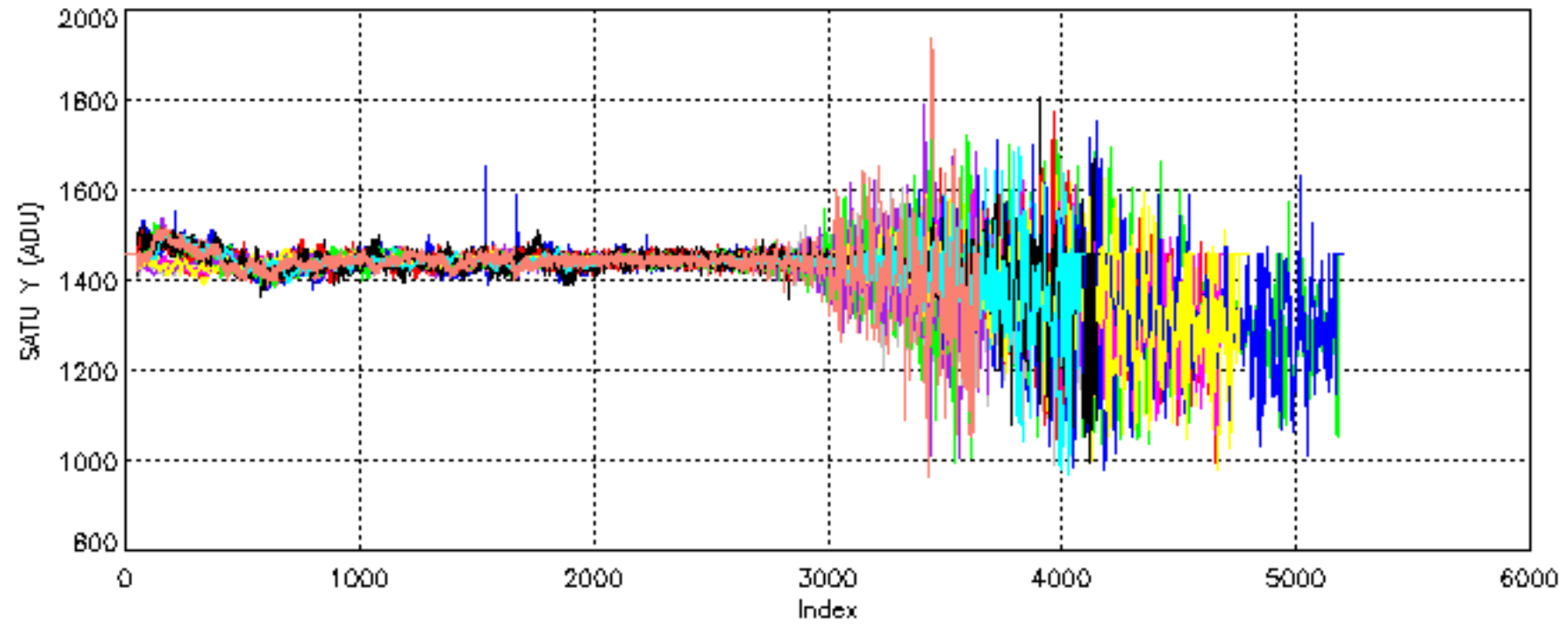




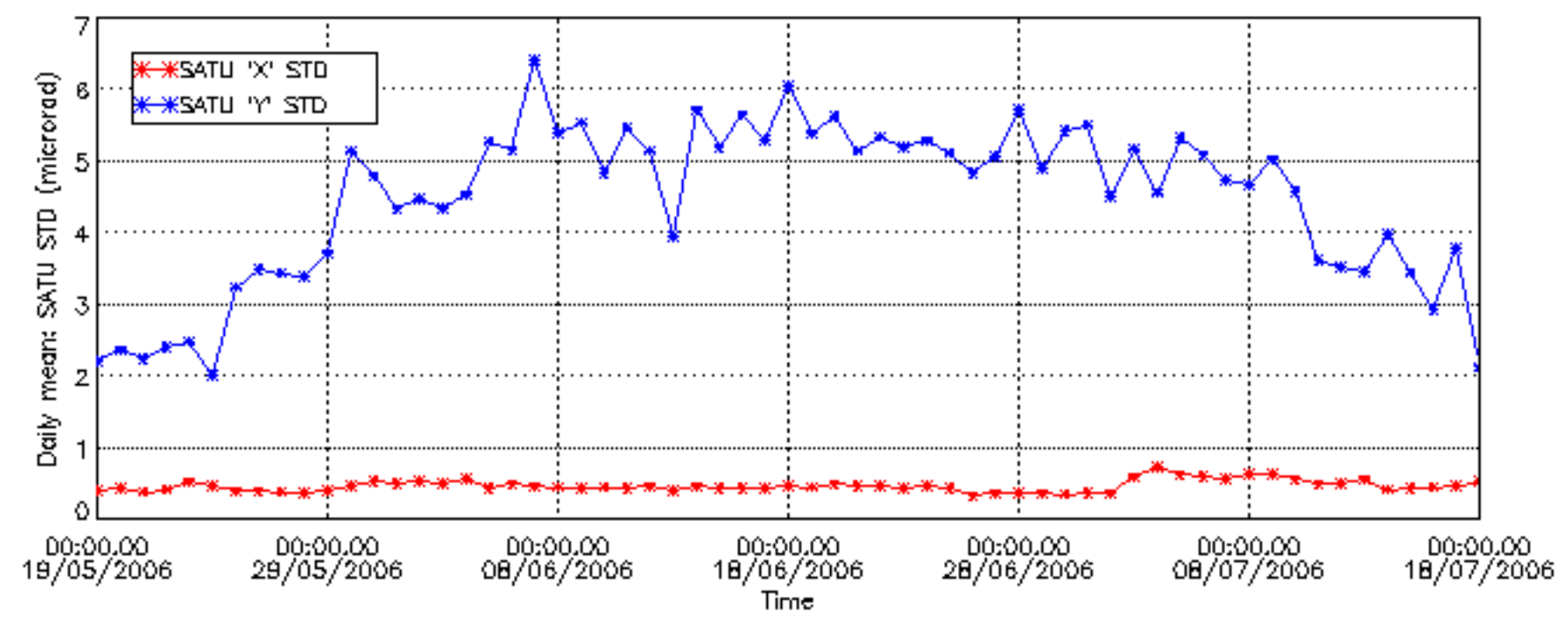
Tangent altitude at which the star is lost











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1; -827.1; 01-JUL-2006 00:41:13; Dark ; 37.5; 165; 34Gam Eri ; 2.95; 3200;occ; 75; 18;22658  
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 3; 35.0; 01-JUL-2006 00:55:35; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;22659  
 4; 482.2; 01-JUL-2006 01:03:02; Dark ; 41.5; 148; Alp Tuc ; 2.88; 4100;occ; 83; 0;22659  
 5; 744.3; 01-JUL-2006 01:07:24; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;22659  
 6; 1062.5; 01-JUL-2006 01:12:43; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;22659  
 7; 1170.7; 01-JUL-2006 01:14:31; Dark ; 38.5; 40; The Sco ; 1.86; 7100;occ; 77; 0;22659  
 8; 1270.5; 01-JUL-2006 01:16:11; Dark ; 39.0; 25; 35Lam Sco ; 1.62; 28000;occ; 78; 0;22659  
 9; 1354.9; 01-JUL-2006 01:17:35; Dark ; 48.5; 116; 19Del Sgr ; 2.70; 4100;occ; 97; 0;22659  
 10; 1642.4; 01-JUL-2006 01:22:22; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;22659  
 11; 1981.8; 01-JUL-2006 01:28:02; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;22659  
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 13; 2283.2; 01-JUL-2006 01:33:03; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;22659  
 14; 2447.8; 01-JUL-2006 01:35:48; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;22659  
 15; 2809.2; 01-JUL-2006 01:41:49; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;22659  
 16; 2952.2; 01-JUL-2006 01:44:12; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;22659  
 17; 3191.1; 01-JUL-2006 01:48:11; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;22659  
 18; 3444.7; 01-JUL-2006 01:52:25; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;22659  
 19; 4063.2; 01-JUL-2006 02:02:43; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;22659  
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 4; 482.8; 01-JUL-2006 02:43:39; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;22660  
 5; 744.8; 01-JUL-2006 02:48:01; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;22660  
 6; 1062.7; 01-JUL-2006 02:53:19; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;22660  
 7; 1170.9; 01-JUL-2006 02:55:07; Dark ; 39.5; 40; The Sco ; 1.86; 7100;occ; 79; 0;22660  
 8; 1270.7; 01-JUL-2006 02:56:47; Dark ; 39.0; 25; 35Lam Sco ; 1.62; 28000;occ; 78; 0;22660  
 9; 1355.2; 01-JUL-2006 02:58:11; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110; 0;22660  
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 13; 2283.4; 01-JUL-2006 03:13:39; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;22660  
 14; 2447.9; 01-JUL-2006 03:16:24; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;22660  
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 16; 2952.3; 01-JUL-2006 03:24:48; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;22660  
 17; 3191.3; 01-JUL-2006 03:28:47; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;22660  
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 6; 483.4; 01-JUL-2006 04:24:15; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;22661  
 7; 745.3; 01-JUL-2006 04:28:37; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;22661  
 8; 1062.9; 01-JUL-2006 04:33:55; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;22661  
 9; 1171.1; 01-JUL-2006 04:35:43; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;22661  
 10; 1270.8; 01-JUL-2006 04:37:23; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;22661  
 11; 1355.3; 01-JUL-2006 04:38:47; Dark ; 49.0; 116; 19Del Sgr ; 2.70; 4100;occ; 98; 0;22661  
 12; 1642.8; 01-JUL-2006 04:43:35; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;22661  
 13; 1981.8; 01-JUL-2006 04:49:14; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;22661  
 14; 2121.8; 01-JUL-2006 04:51:34; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;22661  
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 18; 2952.3; 01-JUL-2006 05:05:24; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;22661  
 19; 3191.4; 01-JUL-2006 05:09:23; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;22661  
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 5; 36.4; 01-JUL-2006 05:57:24; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;22662  
 6; 484.0; 01-JUL-2006 06:04:52; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;22662

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9; 1171.3; 01-JUL-2006 06:16:19; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;22662
10; 1271.0; 01-JUL-2006 06:17:59; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;22662
11; 1355.6; 01-JUL-2006 06:19:24; Dark ; 46.0; 116; 19Del Sgr ; 2.70; 4100;occ; 92; 0;22662
12; 1642.9; 01-JUL-2006 06:24:11; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;22662
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14; 2121.7; 01-JUL-2006 06:32:10; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;22662
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16; 2448.0; 01-JUL-2006 06:37:36; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;22662
17; 2808.8; 01-JUL-2006 06:43:37; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;22662
18; 2952.2; 01-JUL-2006 06:46:00; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;22662
19; 3191.6; 01-JUL-2006 06:50:00; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;22662
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3; 1272.8; 01-JUL-2006 19:42:48; Dark ; 39.0; 25; 35Lam Sco ; 1.62; 28000;occ; 78; 0;22670
4; 1357.7; 01-JUL-2006 19:44:13; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110; 0;22670
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6; 1981.9; 01-JUL-2006 19:54:37; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;22670
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10; 2807.7; 01-JUL-2006 20:08:23; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;22670
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13; 3444.9; 01-JUL-2006 20:19:00; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;22670
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11; 1981.6; 01-JUL-2006 21:35:13; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;22671
12; 2121.3; 01-JUL-2006 21:37:33; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;22671
13; 2285.1; 01-JUL-2006 21:40:17; Bright; 33.5; 127; 27Bet Her ; 2.78; 4700;occ; 67; 0;22671
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