

# GOMOS Daily Report 30-JUL-2006

## Level 0 and Level 1 products

### SUMMARY

#### [1. General Info](#)

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

[2.1 Level 0 products arrived in PCF during actual month \(see template here\)](#)

[2.2 Level 1 products arrived in PCF during reporting period](#)

#### [3. Plot of Spectrometers and Photometers temperatures](#)

#### [4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

#### [5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

#### [6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

#### [7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend last two months](#)

[8. Auxiliary Data Files used for the production reported in section 2.2](#)

## [Level 2 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	01AUG2006 04:31:44
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (30JUL2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (31JUL2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	3

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

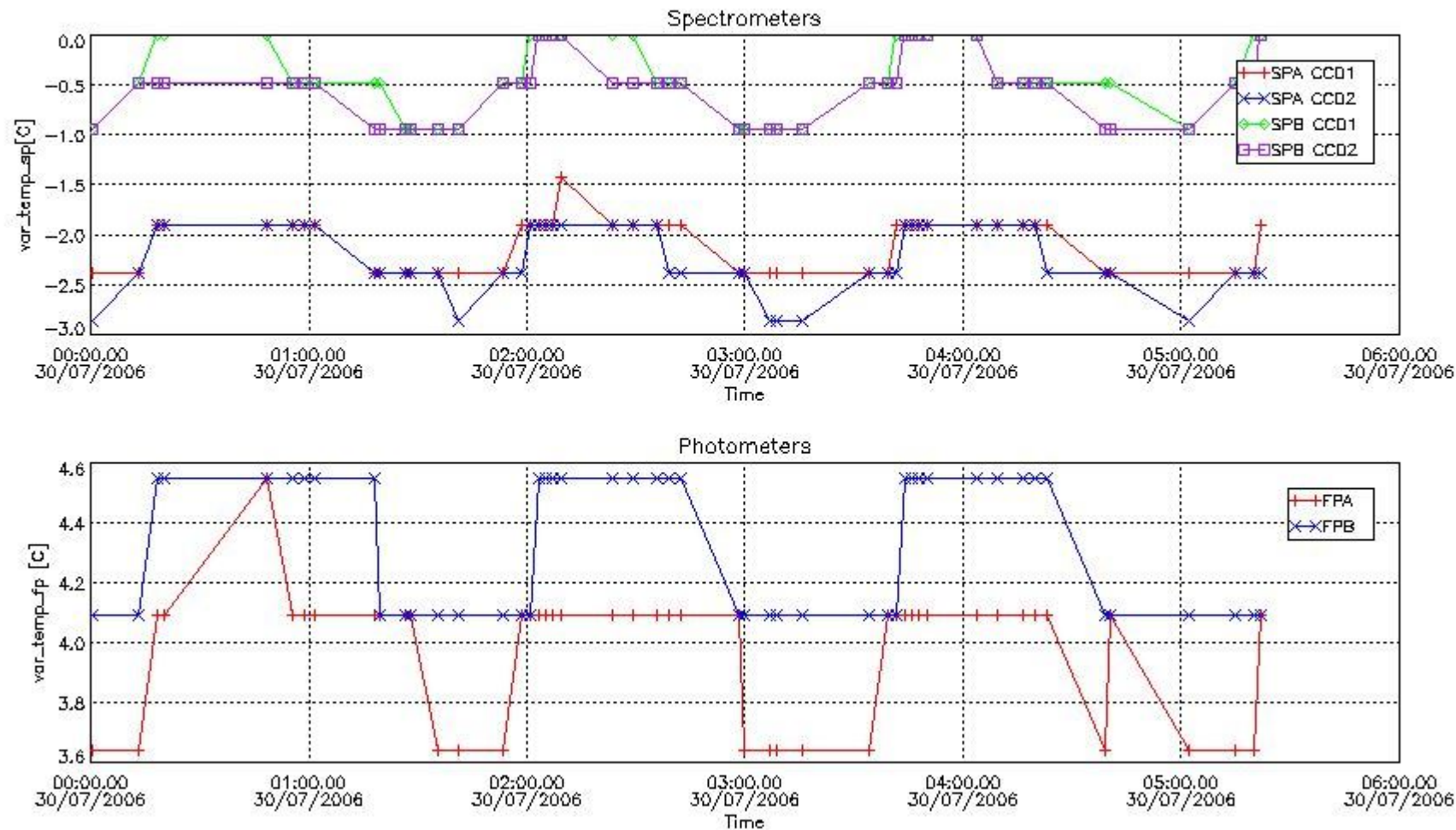
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20060730_000022_000000272049_00474_23073_0010.N1	30-JUL-2006 00:00:22	Bright	26.500	49	1Alp UMi	1.9900	6300.0	53	23073	Yes
2	GOM_TRA_1PNPDE20060730_001301_000000432049_00474_23073_0011.N1	30-JUL-2006 00:13:01	Twilight	42.500	6	13Alp Aur	0.080000	3400.0	85	23073	No
3	GOM_TRA_1PNPDE20060730_001810_000000362049_00474_23073_0012.N1	30-JUL-2006 00:18:10	Twilight	35.500	28	12Bet Tau	1.6500	15200.	71	23073	No
4	GOM_TRA_1PNPDE20060730_002013_000000352049_00474_23073_0013.N1	30-JUL-2006 00:20:13	Twilight	35.000	176	23Zet Tau	3.0200	22000.	70	23073	No
5	GOM_TRA_1PNPDE20060730_004822_000000372049_00475_23074_0000.N1	30-JUL-2006 00:48:22	Dark	36.500	9	Alp Eri	0.45300	24000.	73	23074	No
6	GOM_TRA_1PNPDE20060730_005521_000000332049_00475_23074_0001.N1	30-JUL-2006 00:55:21	Twilight	32.500	148	Alp Tuc	2.8780	4100.0	65	23074	No
7	GOM_TRA_1PNPDE20060730_005840_000000472049_00475_23074_0002.N1	30-JUL-2006 00:58:40	Bright	46.500	31	Alp Gru	1.7340	15200.	93	23074	No
8	GOM_TRA_1PNPDE20060730_010150_000000422049_00475_23074_0003.N1	30-JUL-2006 01:01:50	Bright	42.000	172	Gam Gru	3.0030	13100.	84	23074	No
9	GOM_TRA_1PNPDE20060730_011759_000000322049_00475_23074_0004.N1	30-JUL-2006 01:17:59	Bright	32.000	11	53Alp Aql	0.76500	8000.0	64	23074	No
10	GOM_TRA_1PNPDE20060730_011920_000000302049_00475_23074_0005.N1	30-JUL-2006 01:19:20	Bright	30.000	168	17Zet Aql	2.9860	11000.	60	23074	No
11	GOM_TRA_1PNPDE20060730_012625_000000302049_00475_23074_0006.N1	30-JUL-2006 01:26:25	Bright	29.500	5	3Alp Lyr	0.033000	11000.	59	23074	No
12	GOM_TRA_1PNPDE20060730_012801_000000362049_00475_23074_0007.N1	30-JUL-2006 01:28:01	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	23074	No
13	GOM_TRA_1PNPDE20060730_013523_000000342049_00475_23074_0008.N1	30-JUL-2006 01:35:23	Bright	33.500	89	5Alp Cep	2.4510	8000.0	67	23074	No
14	GOM_TRA_1PNPDE20060730_014058_000000302049_00475_23074_0009.N1	30-JUL-2006 01:40:58	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23074	No
15	GOM_TRA_1PNPDE20060730_015337_000000432049_00475_23074_0010.N1	30-JUL-2006 01:53:37	Twilight	42.500	6	13Alp Aur	0.080000	3400.0	85	23074	No
16	GOM_TRA_1PNPDE20060730_015846_000000382049_00475_23074_0011.N1	30-JUL-2006 01:58:46	Twilight	38.000	28	12Bet Tau	1.6500	15200.	76	23074	No
17	GOM_TRA_1PNPDE20060730_020050_000000342049_00475_23074_0012.N1	30-JUL-2006 02:00:50	Twilight	33.500	176	23Zet Tau	3.0200	22000.	67	23074	No
18	GOM_TRA_1PNPDE20060730_020316_000000542049_00475_23074_0013.N1	30-JUL-2006 02:03:16	Twilight	54.000	13	87Alp Tau	0.86700	3800.0	108	23074	No
19	GOM_TRA_1PNPDE20060730_020516_000000352049_00475_23074_0014.N1	30-JUL-2006 02:05:16	Twilight	34.500	27	24Gam Ori	1.6360	26000.	69	23074	No
20	GOM_TRA_1PNPDE20060730_020711_000000352049_00475_23074_0000.N1	30-JUL-2006 02:07:11	Twilight	34.500	30	46Eps Ori	1.6940	30000.	69	23074	No
21	GOM_TRA_1PNPDE20060730_020936_000000392049_00475_23074_0001.N1	30-JUL-2006 02:09:36	Dark	39.000	7	19Bet Ori	0.10000	14000.	78	23074	No
22	GOM_TRA_1PNPDE20060730_022321_000000382049_00475_23074_0002.N1	30-JUL-2006 02:23:21	Dark	37.500	157	The1Eri	2.9060	9300.0	75	23074	No
23	GOM_TRA_1PNPDE20060730_022859_000000362049_00476_23075_0003.N1	30-JUL-2006 02:28:59	Dark	36.000	9	Alp Eri	0.45300	24000.	72	23075	No
24	GOM_TRA_1PNPDE20060730_023558_000000402049_00476_23075_0004.N1	30-JUL-2006 02:35:58	Twilight	39.500	148	Alp Tuc	2.8780	4100.0	79	23075	No
25	GOM_TRA_1PNPDE20060730_023916_000000422049_00476_23075_0005.N1	30-JUL-2006 02:39:16	Bright	41.500	31	Alp Gru	1.7340	15200.	83	23075	No
26	GOM_TRA_1PNPDE20060730_024226_000000402049_00476_23075_0006.N1	30-JUL-2006 02:42:26	Bright	40.000	172	Gam Gru	3.0030	13100.	80	23075	No
27	GOM_TRA_1PNPDE20060730_025835_000000332049_00476_23075_0007.N1	30-JUL-2006 02:58:35	Bright	32.500	11	53Alp Aql	0.76500	8000.0	65	23075	No
28	GOM_TRA_1PNPDE20060730_025957_000000312049_00476_23075_0008.N1	30-JUL-2006 02:59:57	Bright	30.500	168	17Zet Aql	2.9860	11000.	61	23075	Yes
29	GOM_TRA_1PNPDE20060730_030701_000000332049_00476_23075_0009.N1	30-JUL-2006 03:07:01	Bright	32.500	5	3Alp Lyr	0.033000	11000.	65	23075	No
30	GOM_TRA_1PNPDE20060730_030837_000000362049_00476_23075_0010.N1	30-JUL-2006 03:08:37	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	23075	No
31	GOM_TRA_1PNPDE20060730_031558_000000332049_00476_23075_0011.N1	30-JUL-2006 03:15:58	Bright	32.500	89	5Alp Cep	2.4510	8000.0	65	23075	No
32	GOM_TRA_1PNPDE20060730_033413_000000362049_00476_23075_0000.N1	30-JUL-2006 03:34:13	Twilight	35.500	6	13Alp Aur	0.080000	3400.0	71	23075	No
33	GOM_TRA_1PNPDE20060730_033923_000000352049_00476_23075_0001.N1	30-JUL-2006 03:39:23	Twilight	35.000	28	12Bet Tau	1.6500	15200.	70	23075	No
34	GOM_TRA_1PNPDE20060730_034126_000000342049_00476_23075_0002.N1	30-JUL-2006 03:41:26	Twilight	34.000	176	23Zet Tau	3.0200	22000.	68	23075	No
35	GOM_TRA_1PNPDE20060730_034352_000000422049_00476_23075_0003.N1	30-JUL-2006 03:43:52	Twilight	41.500	13	87Alp Tau	0.86700	3800.0	83	23075	No
36	GOM_TRA_1PNPDE20060730_034553_000000352049_00476_23075_0004.N1	30-JUL-2006 03:45:53	Twilight	34.500	27	24Gam Ori	1.6360	26000.	69	23075	No
37	GOM_TRA_1PNPDE20060730_034747_000000342049_00476_23075_0005.N1	30-JUL-2006 03:47:47	Twilight	33.500	30	46Eps Ori	1.6940	30000.	67	23075	No
38	GOM_TRA_1PNPDE20060730_035013_000000442049_00476_23075_0006.N1	30-JUL-2006 03:50:13	Dark	44.000	7	19Bet Ori	0.10000	14000.	88	23075	No
39	GOM_TRA_1PNPDE20060730_040358_000000402049_00476_23075_0007.N1	30-JUL-2006 04:03:58	Dark	40.000	157	The1Eri	2.9060	9300.0	80	23075	No
40	GOM_TRA_1PNPDE20060730_040936_000000442049_00477_23076_0008.N1	30-JUL-2006 04:09:36	Dark	43.500	9	Alp Eri	0.45300	24000.	87	23076	No
41	GOM_TRA_1PNPDE20060730_041634_000000362049_00477_23076_0009.N1	30-JUL-2006 04:16:34	Twilight	35.500	148	Alp Tuc	2.8780	4100.0	71	23076	No
42	GOM_TRA_1PNPDE20060730_041953_000000392049_00477_23076_0010.N1	30-JUL-2006 04:19:53	Bright	39.000	31	Alp Gru	1.7340	15200.	78	23076	No

43	GOM_TRA_1PNPDE20060730_042303_000000392049_00477_23076_0011.N1	30-JUL-2006 04:23:03	Bright	38.500	172	Gam Gru	3.0030	13100.	77	23076	No
44	GOM_TRA_1PNPDE20060730_043911_000000342049_00477_23076_0012.N1	30-JUL-2006 04:39:11	Bright	33.500	11	53Alp Aql	0.76500	8000.0	67	23076	No
45	GOM_TRA_1PNPDE20060730_044032_000000302049_00477_23076_0013.N1	30-JUL-2006 04:40:32	Bright	30.000	168	17Zet Aql	2.9860	11000.	60	23076	Yes
46	GOM_TRA_1PNPDE20060730_050210_000000272049_00477_23076_0000.N1	30-JUL-2006 05:02:10	Bright	27.000	49	1Alp UMi	1.9900	6300.0	54	23076	No
47	GOM_TRA_1PNPDE20060730_051449_000000342049_00477_23076_0000.N1	30-JUL-2006 05:14:49	Twilight	34.000	6	13Alp Aur	0.080000	3400.0	68	23076	No
48	GOM_TRA_1PNPDE20060730_051959_000000372049_00477_23076_0001.N1	30-JUL-2006 05:19:59	Twilight	37.000	28	12Bet Tau	1.6500	15200.	74	23076	No
49	GOM_TRA_1PNPDE20060730_052202_000000332049_00477_23076_0002.N1	30-JUL-2006 05:22:02	Twilight	33.000	176	23Zet Tau	3.0200	22000.	66	23076	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).

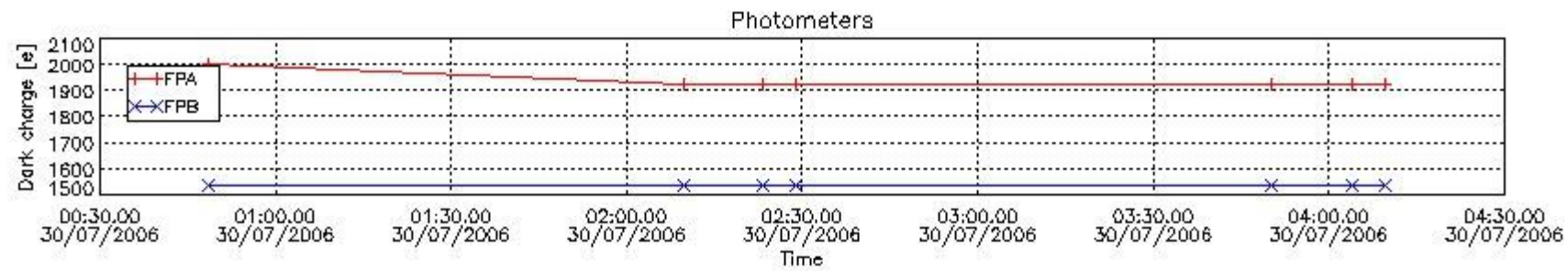
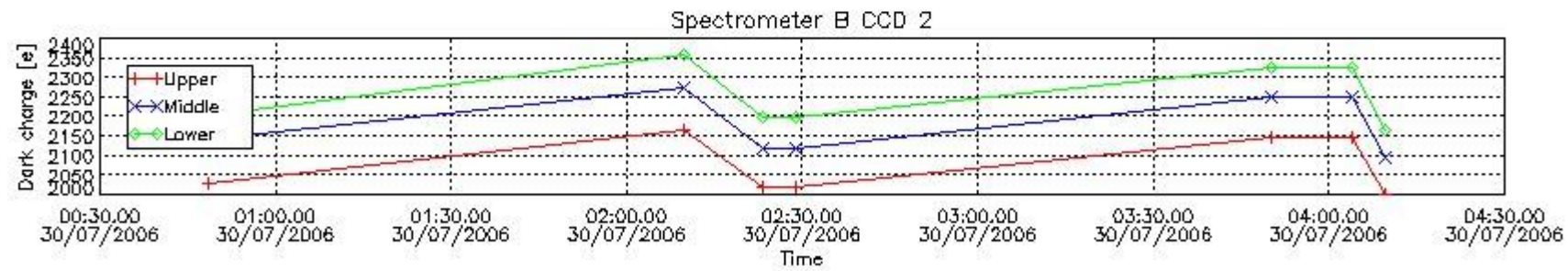
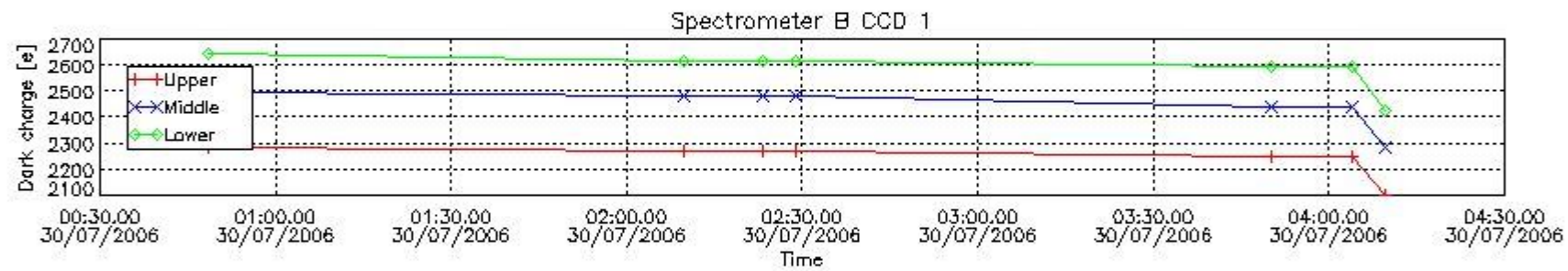
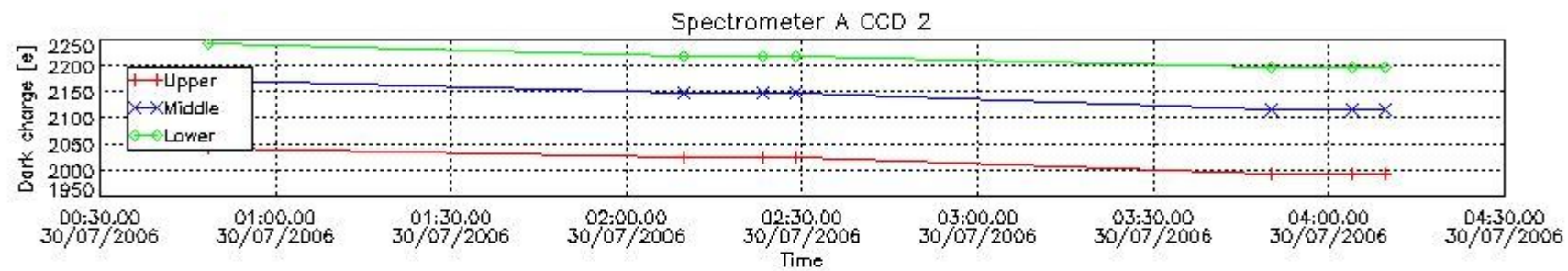
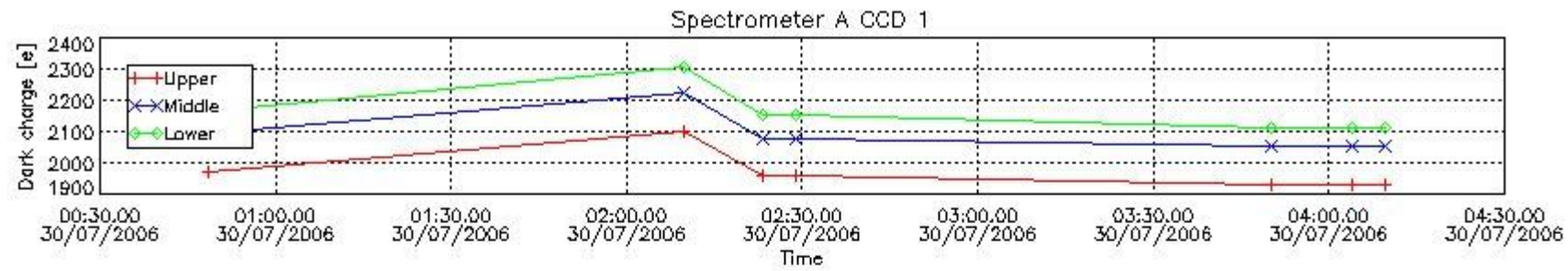
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20060730_050210_000000272049_00477_23076_0000.N1	DC map used (0)

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





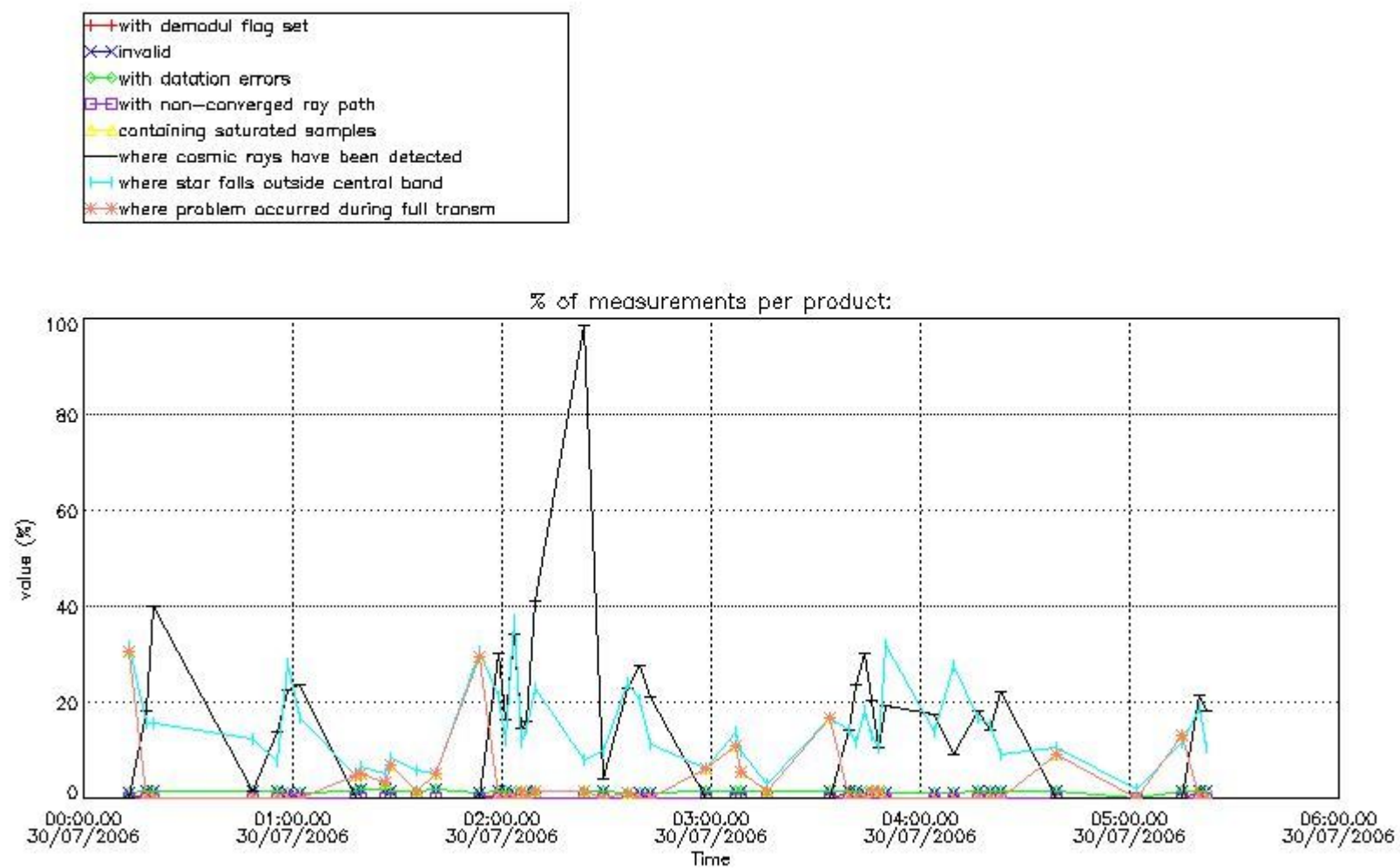
## 5. Demodulation flag and quality information monitoring

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:

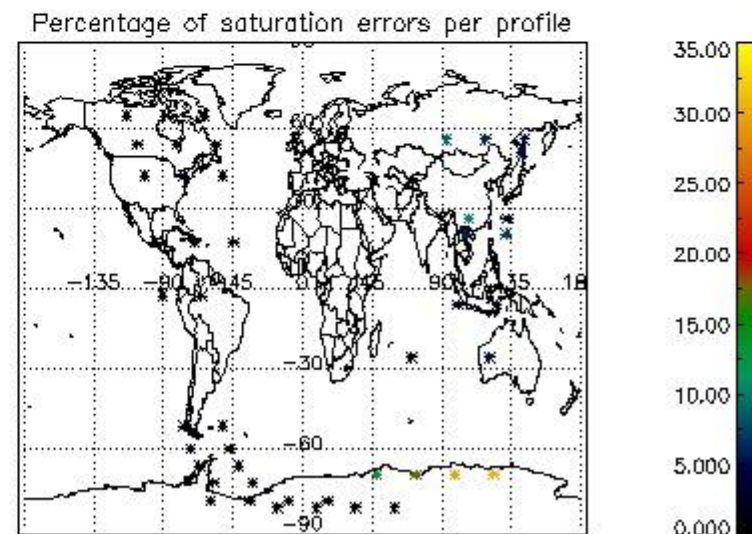
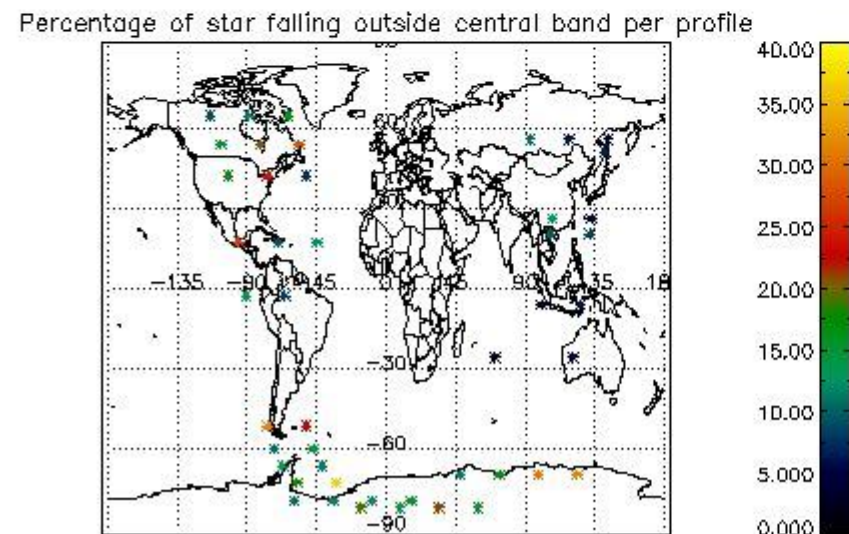
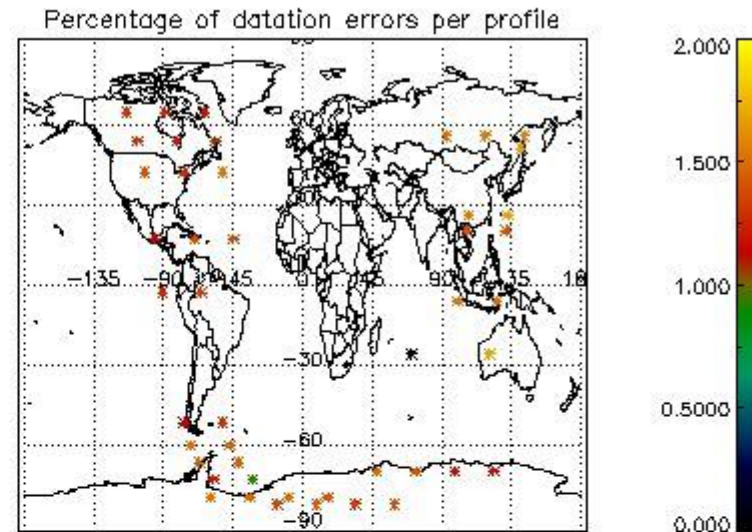
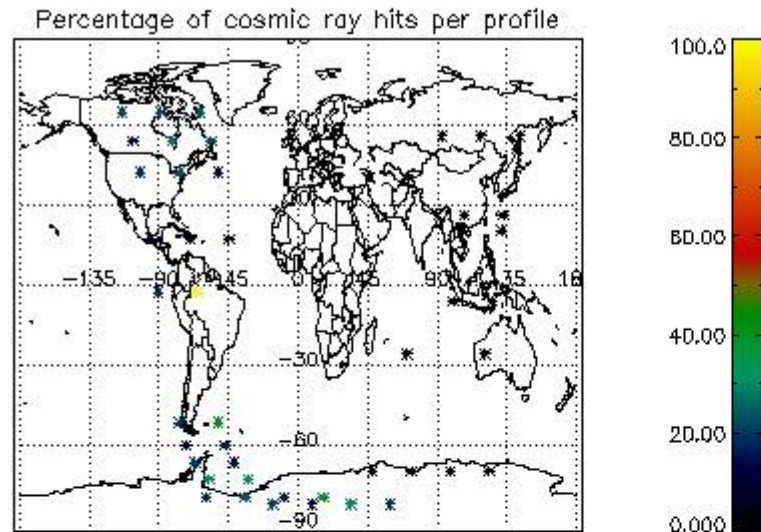
At least one measurement with demodulation flag set:	19.5652 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





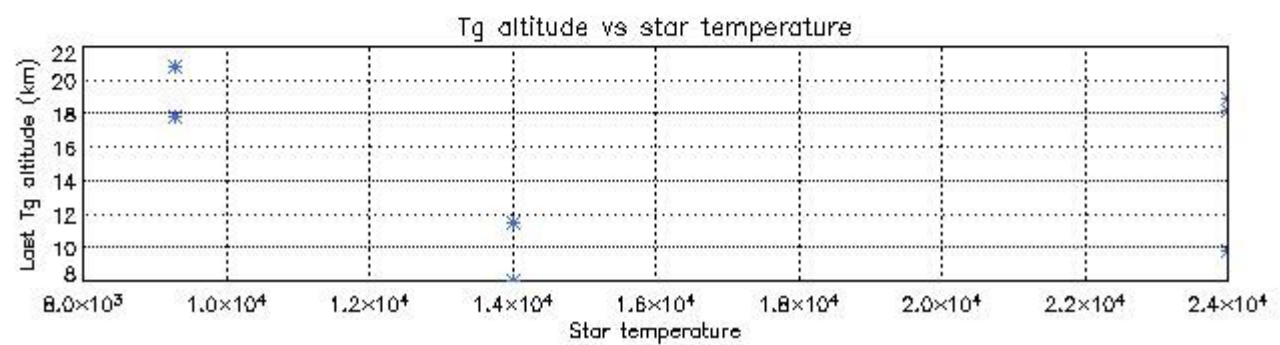
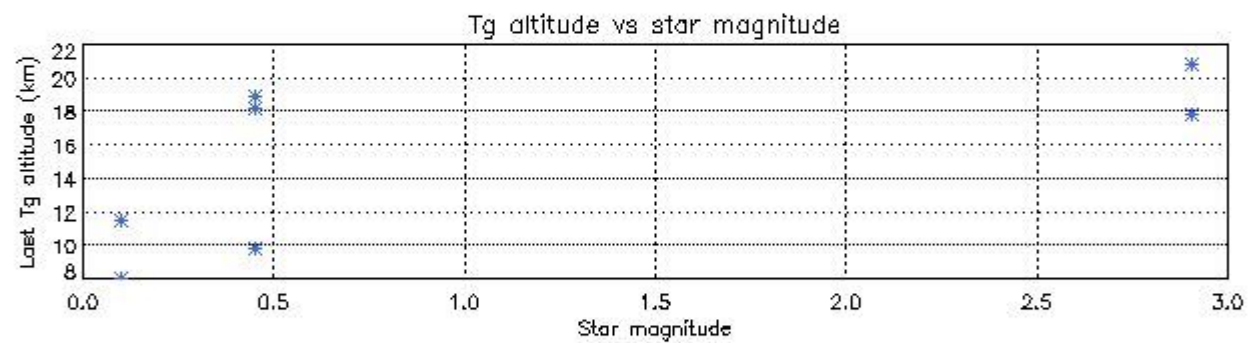
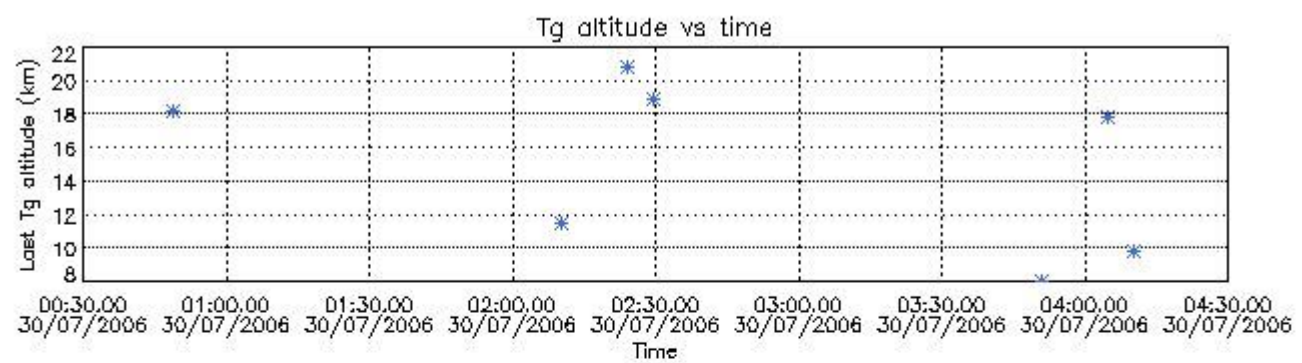
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.994	19.559	14.512
St. deviation:	5.0699	4.3653	3.5293
Maximum:	20.776	28.796	20.935
Minimum:	8.0115	8.9427	4.9334
Number of data:	7.0000	18.000	21.000

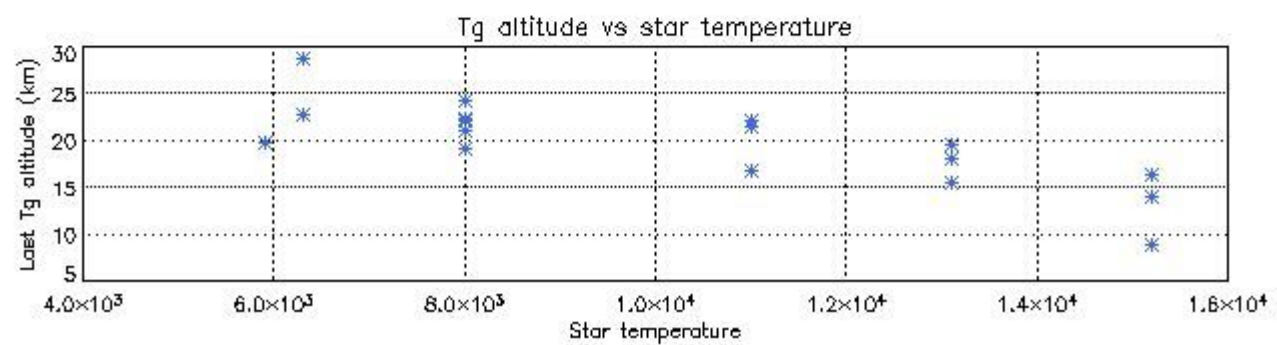
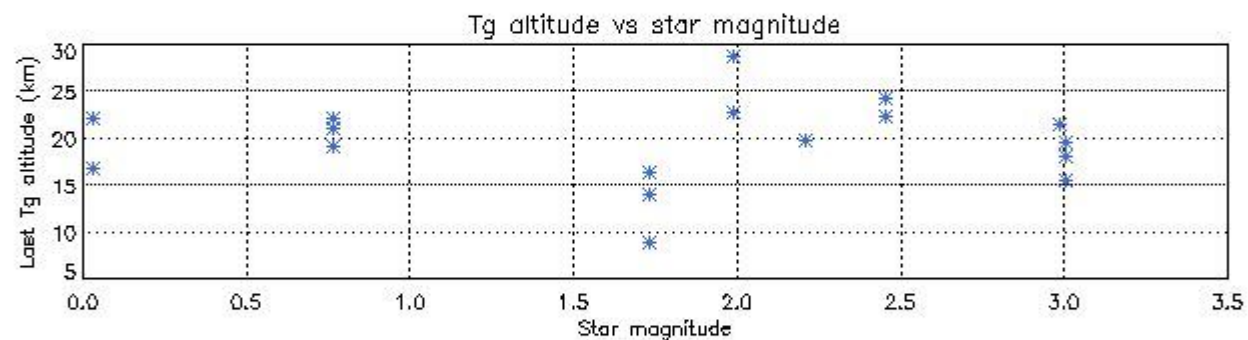
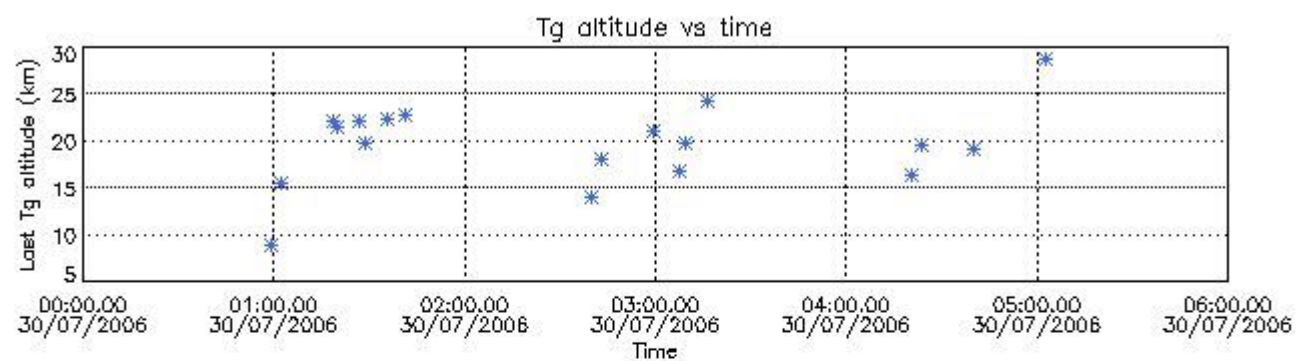
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

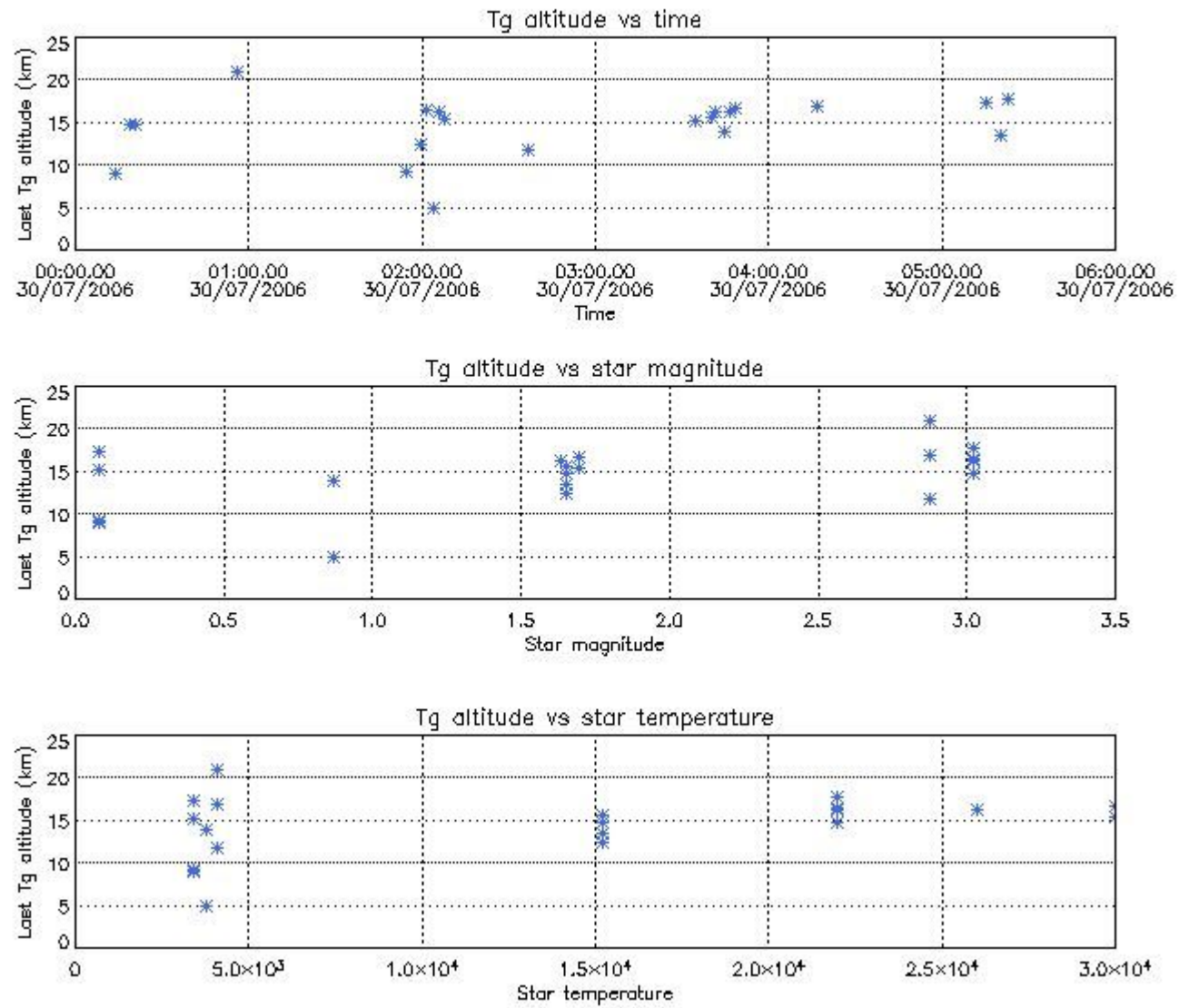
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



## Tangent altitude at which the star is lost

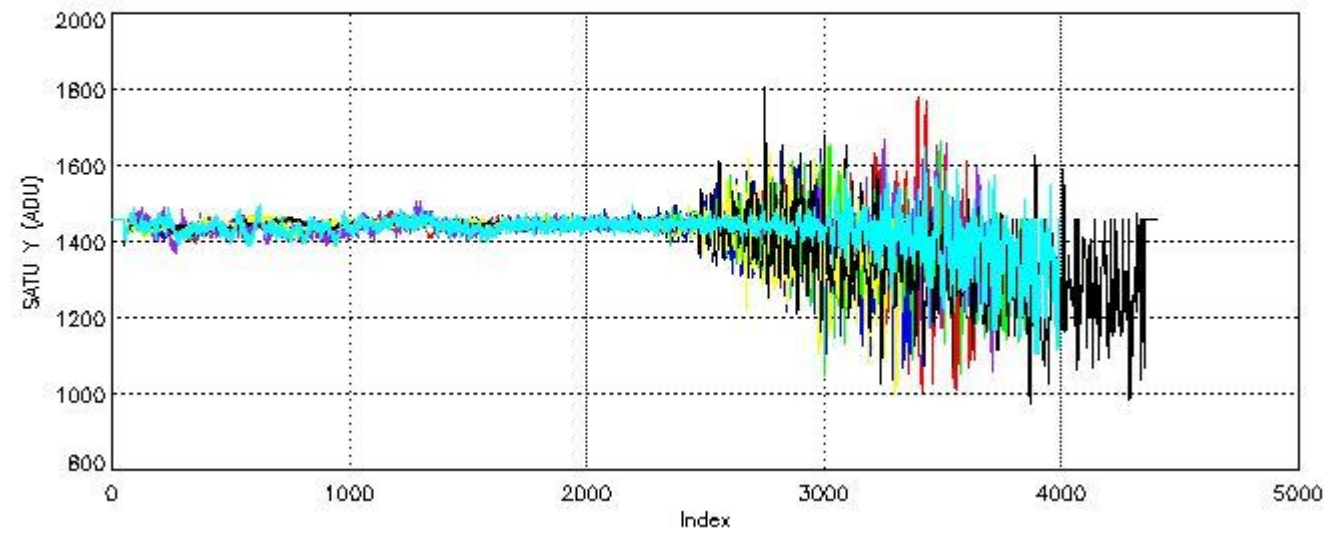
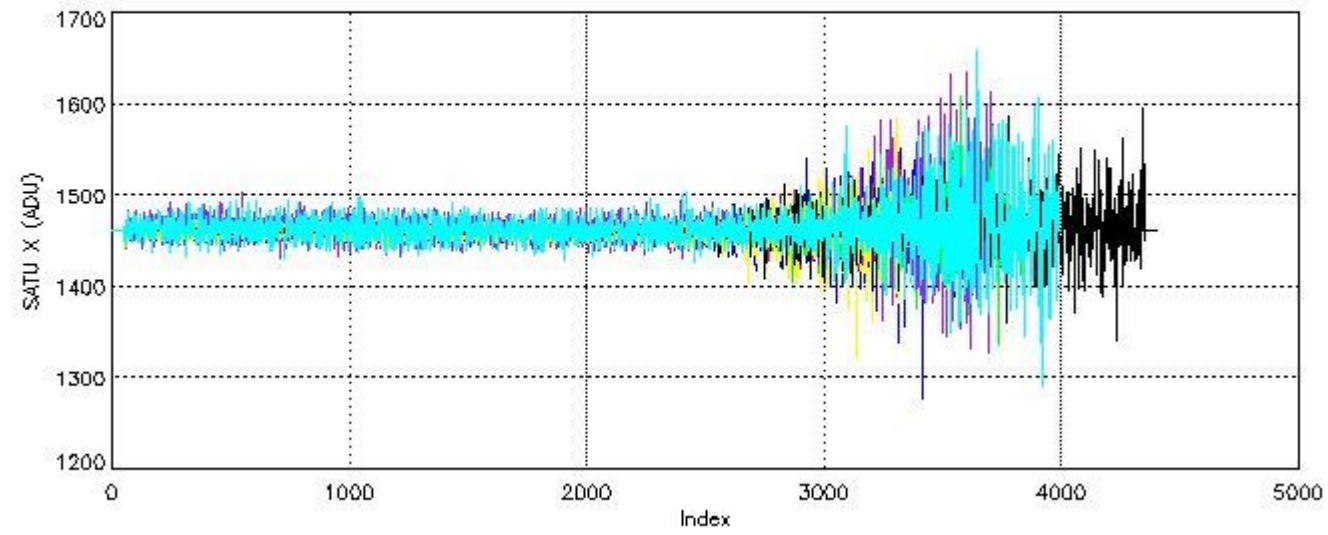


## 7. Star Acquisition and Tracking Unit (SATU)

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.

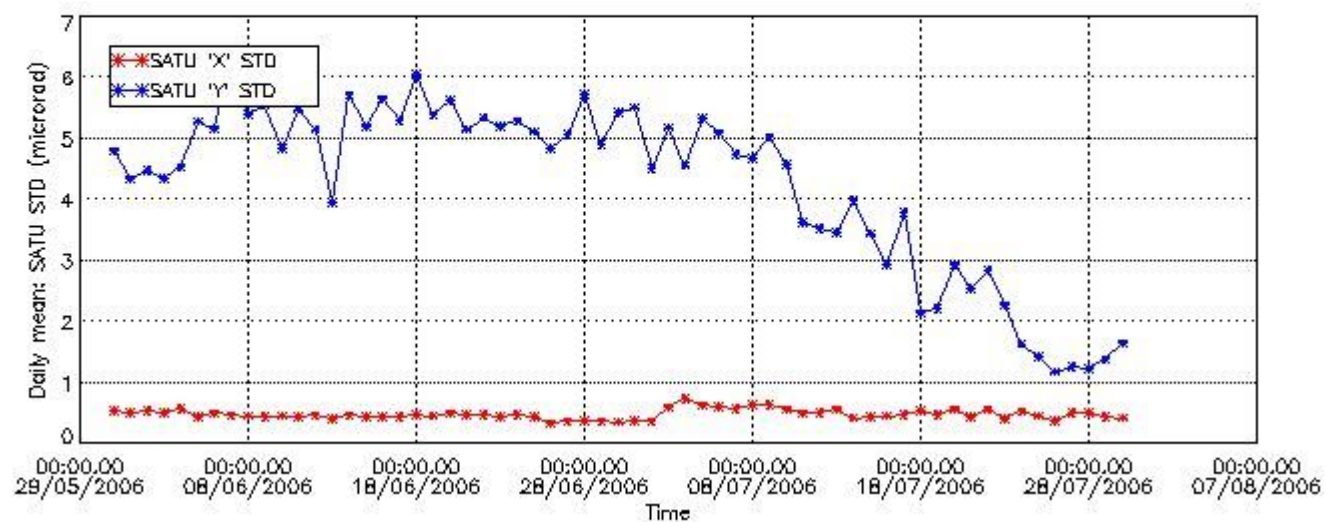
### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.9	1438.7	1462.6	1435.0
St. deviation:	4.0794	16.274	6.5701	17.703
Maximum:	1492.0	1487.0	1517.0	1495.0
Minimum:	1456.0	1405.0	1448.0	1394.0

Number of data:	2800.0	2800.0	5850.0	5850.0
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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.

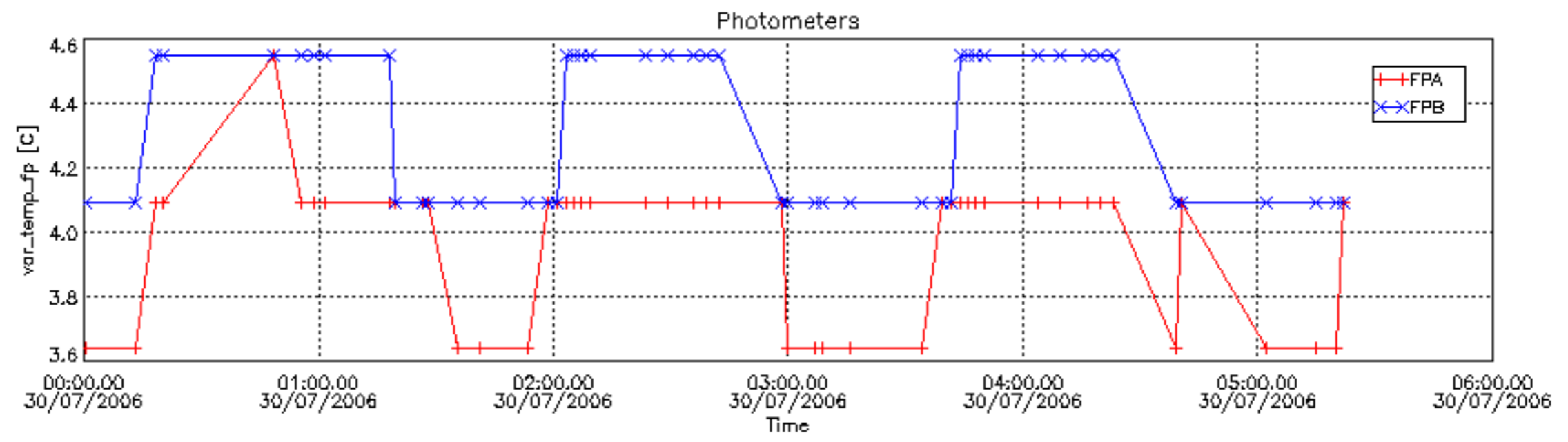
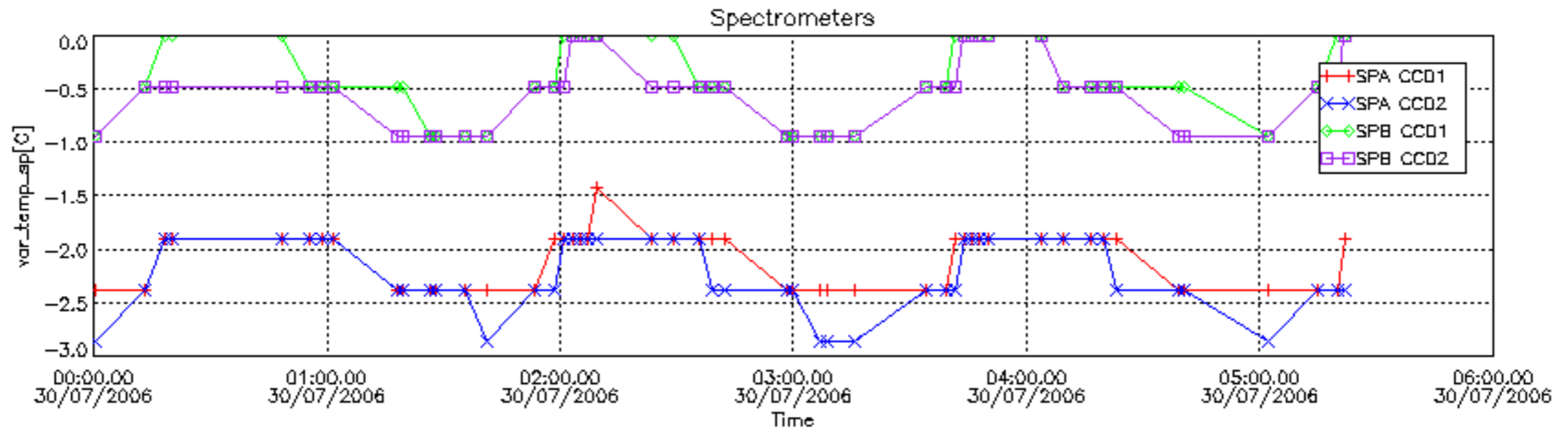


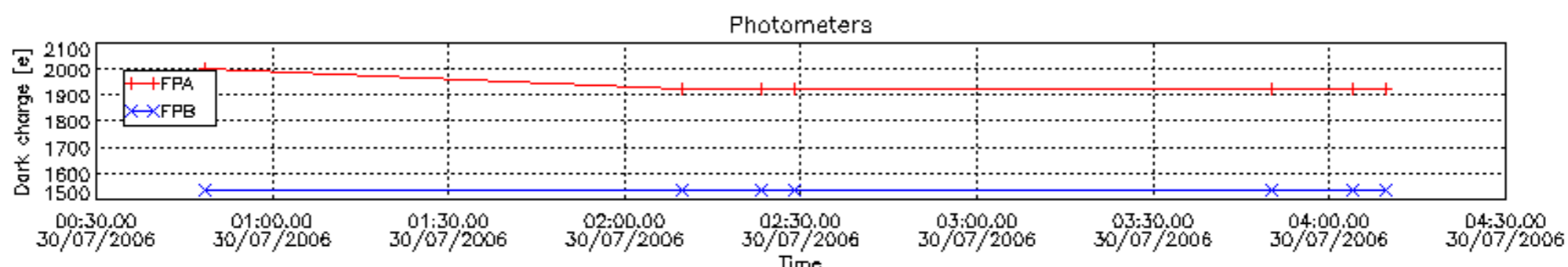
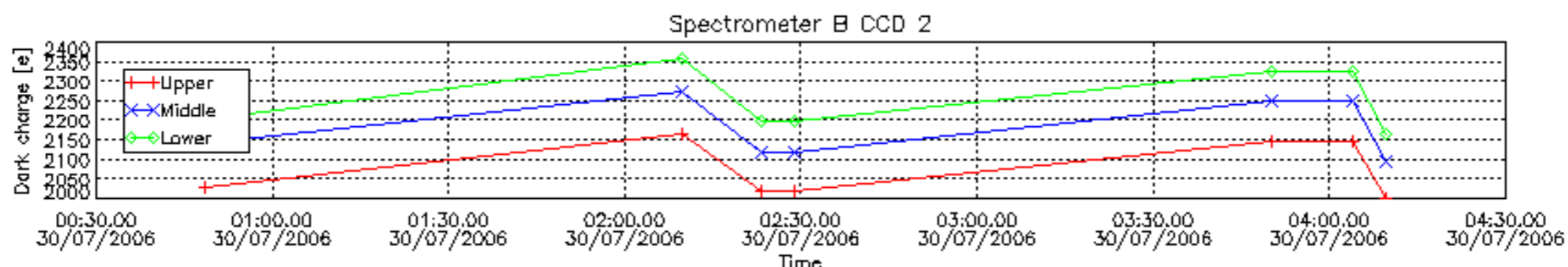
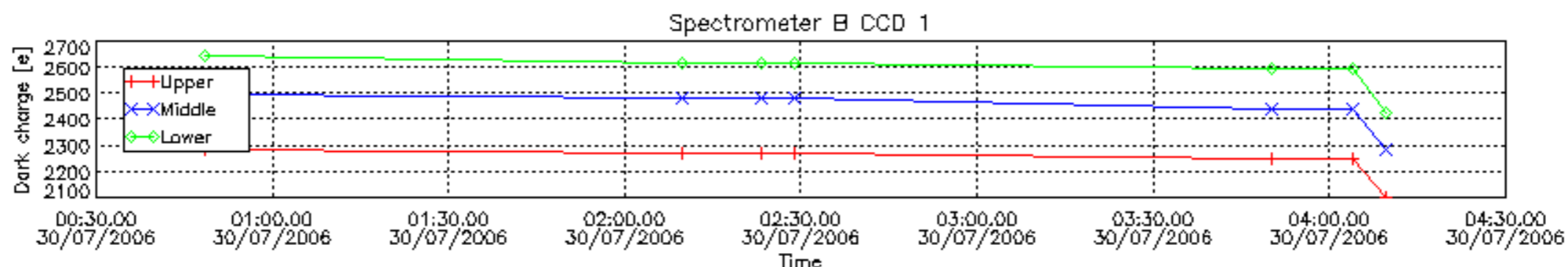
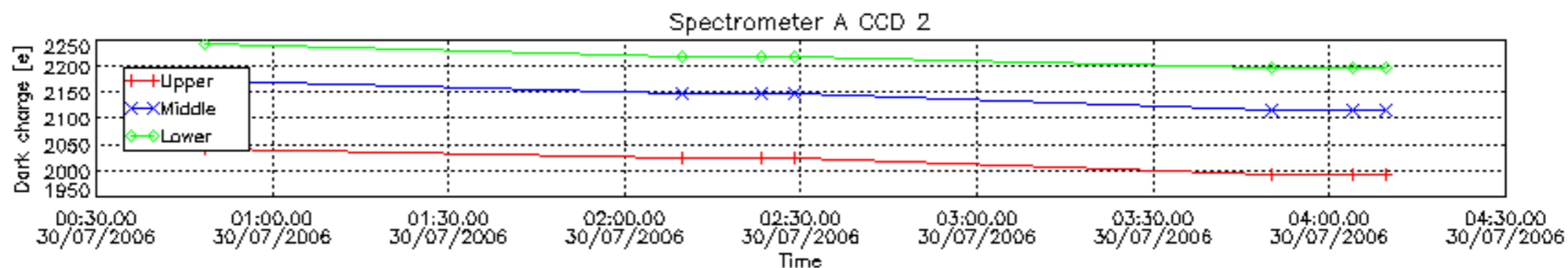
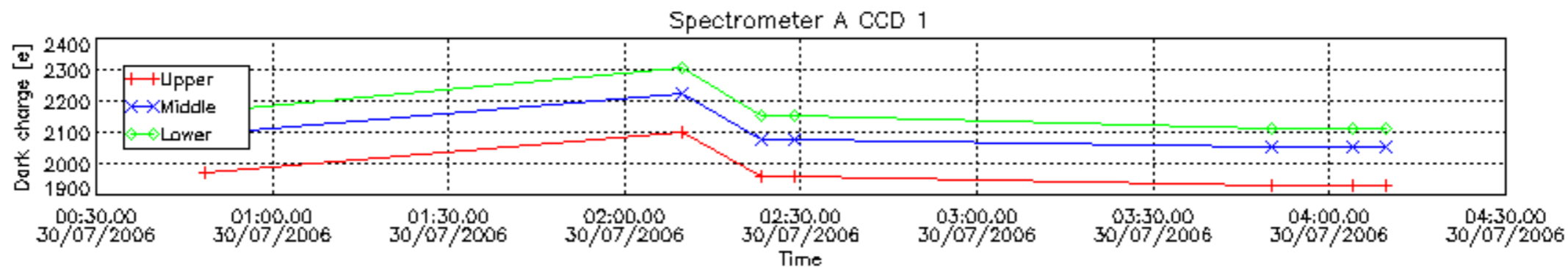
### 8. Auxiliary Data Files used for the production reported in section 2.2

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	30-JUL-2006 00:00:22
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060725_102635_20060724_000000_20100101_000000	1	30-JUL-2006 00:00:22
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	30-JUL-2006 00:00:22
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	30-JUL-2006 00:00:22
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	30-JUL-2006 00:00:22
ECMWF_FILE	AUX_ECF_AXNECM20060729_061931_20060729_210000_20060730_090000	1	30-JUL-2006 00:00:22
ECMWF_FILE	AUX_ECF_AXNECM20060729_181836_20060730_030000_20060730_150000	32	30-JUL-2006 03:34:13
OPTIONAL_ECMWF_FILE	NOT USED	1	30-JUL-2006 00:00:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060729_195445_000038252049_00472_23071_0232.N1	1	30-JUL-2006 00:00:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060729_225005_000057382049_00473_23072_0233.N1	5	30-JUL-2006 00:48:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060730_003102_000054192049_00474_23073_0234.N1	9	30-JUL-2006 01:17:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060730_032103_000057382049_00476_23075_0237.N1	32	30-JUL-2006 03:34:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060730_050200_000057382049_00477_23076_0238.N1	46	30-JUL-2006 05:02:10



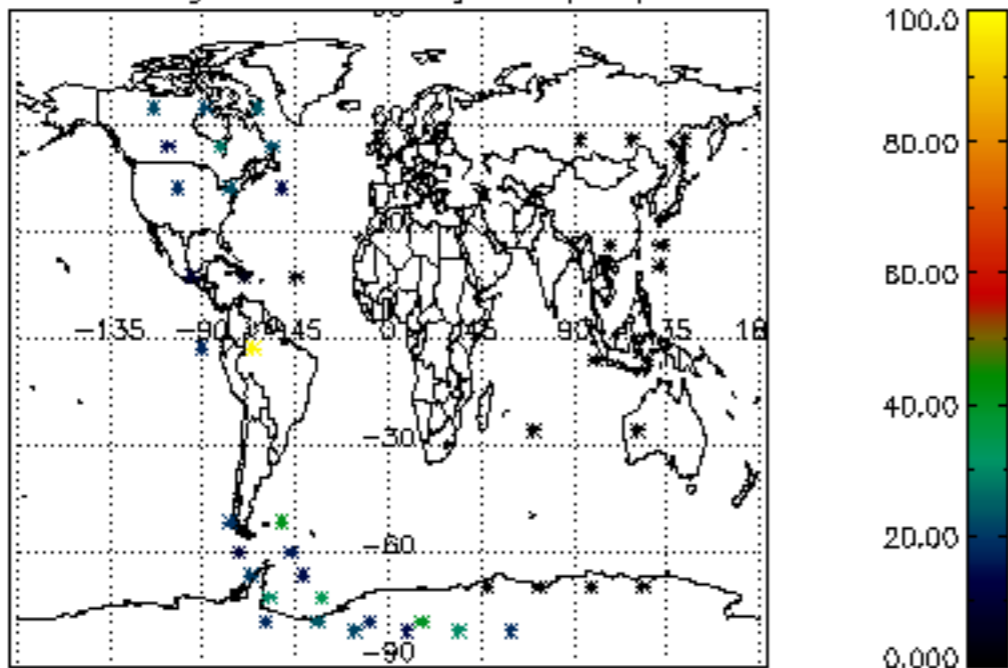




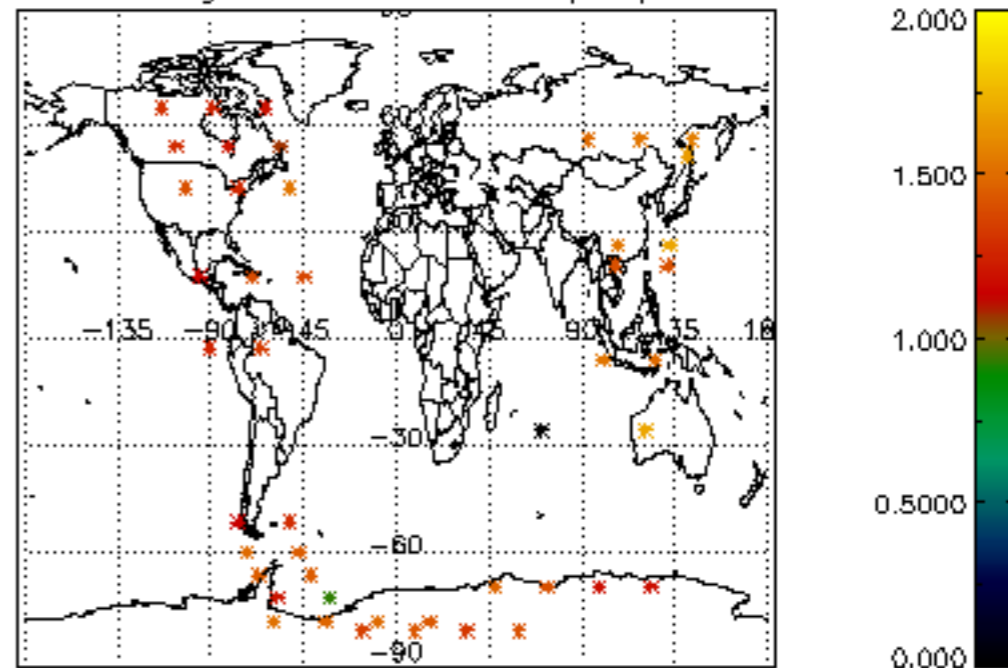




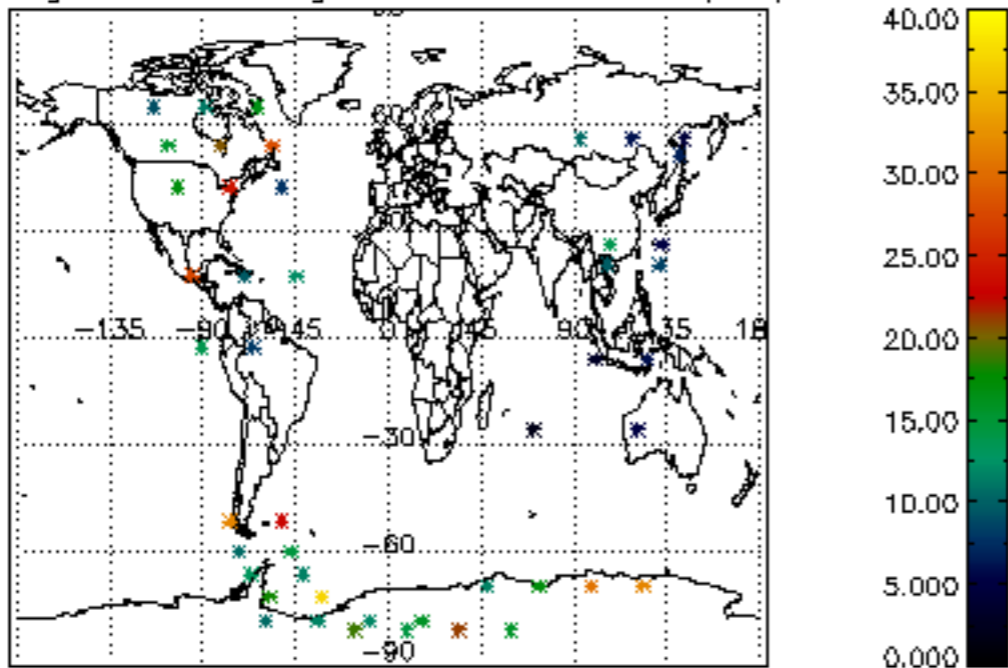
Percentage of cosmic ray hits per profile



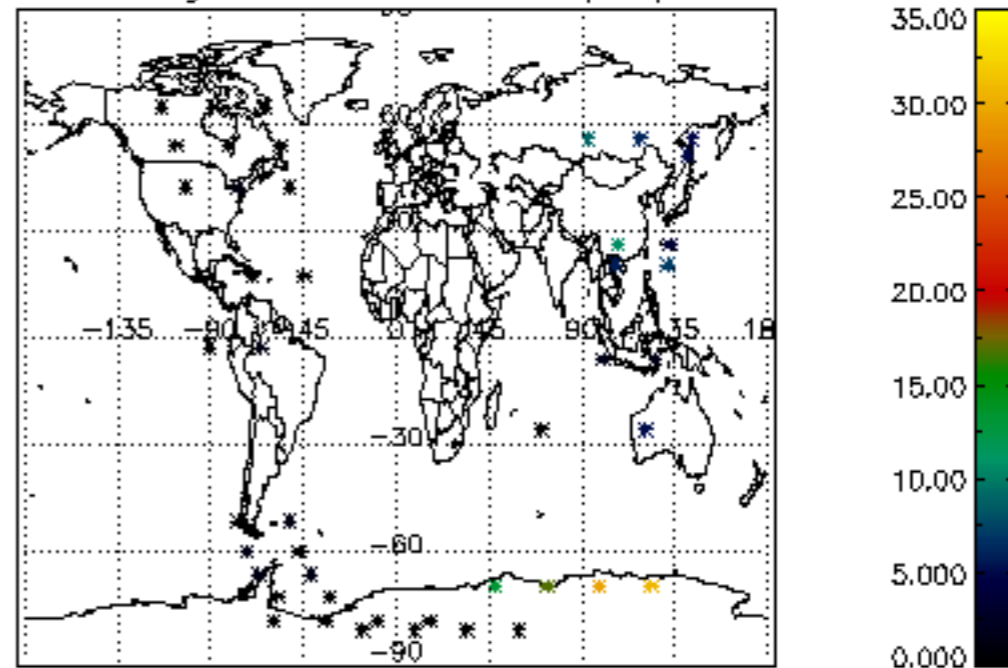
Percentage of datation errors per profile



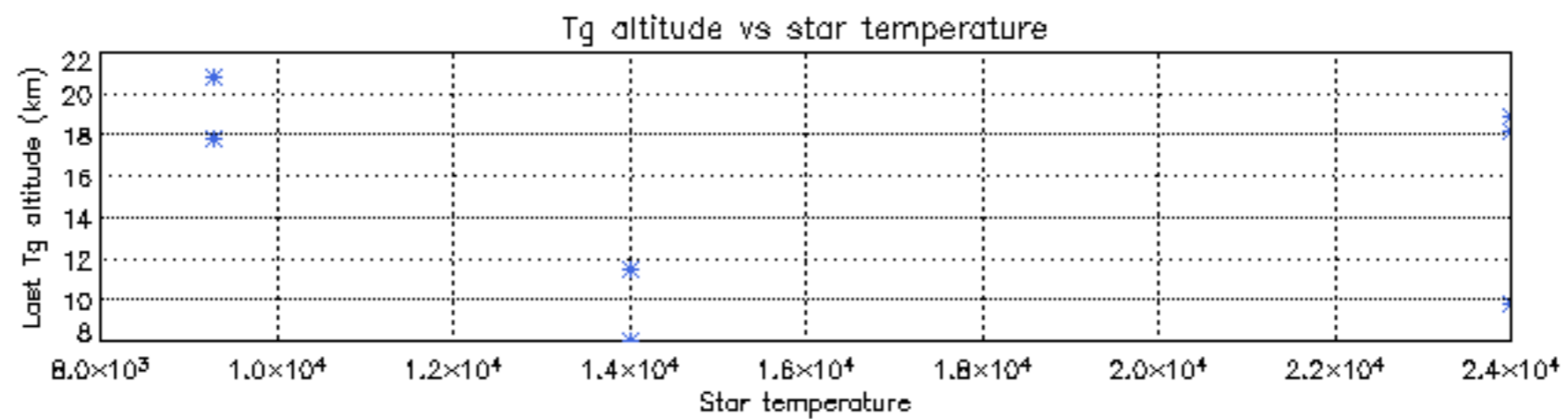
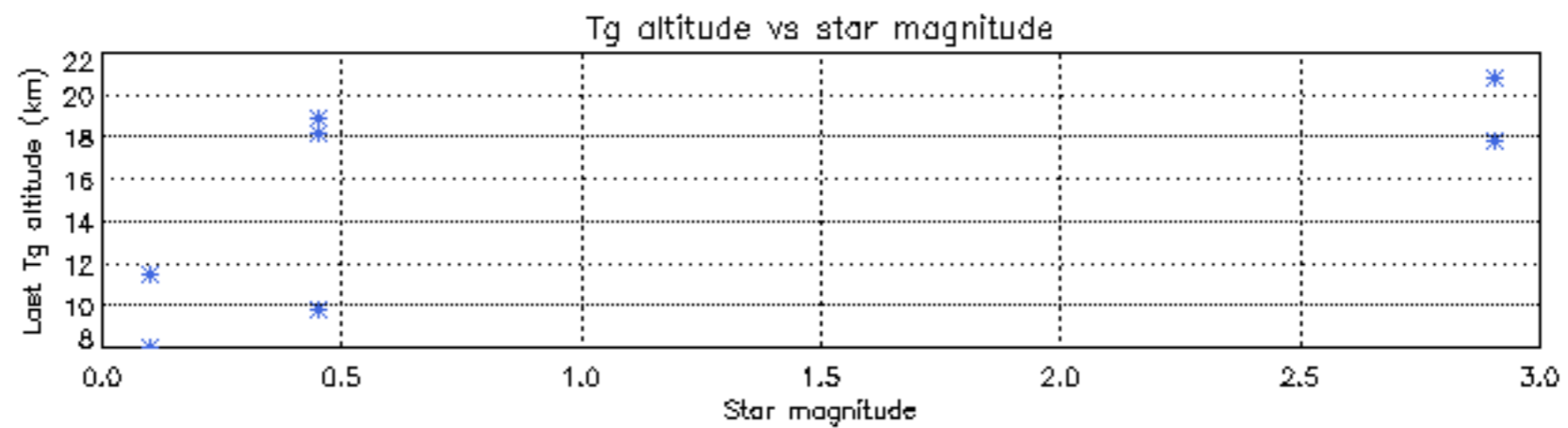
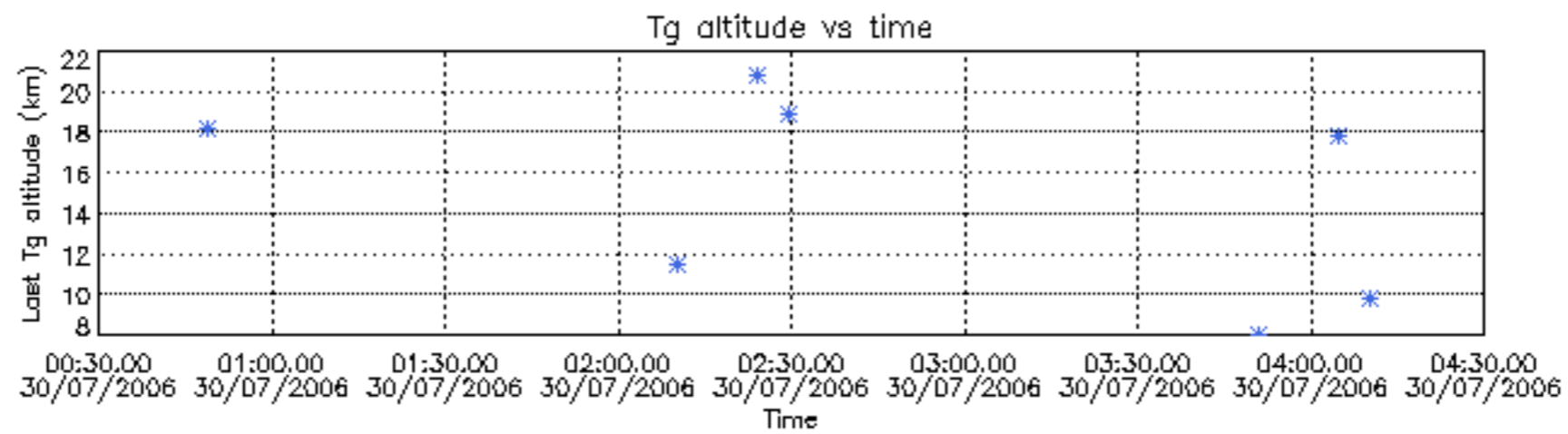
Percentage of star falling outside central band per profile



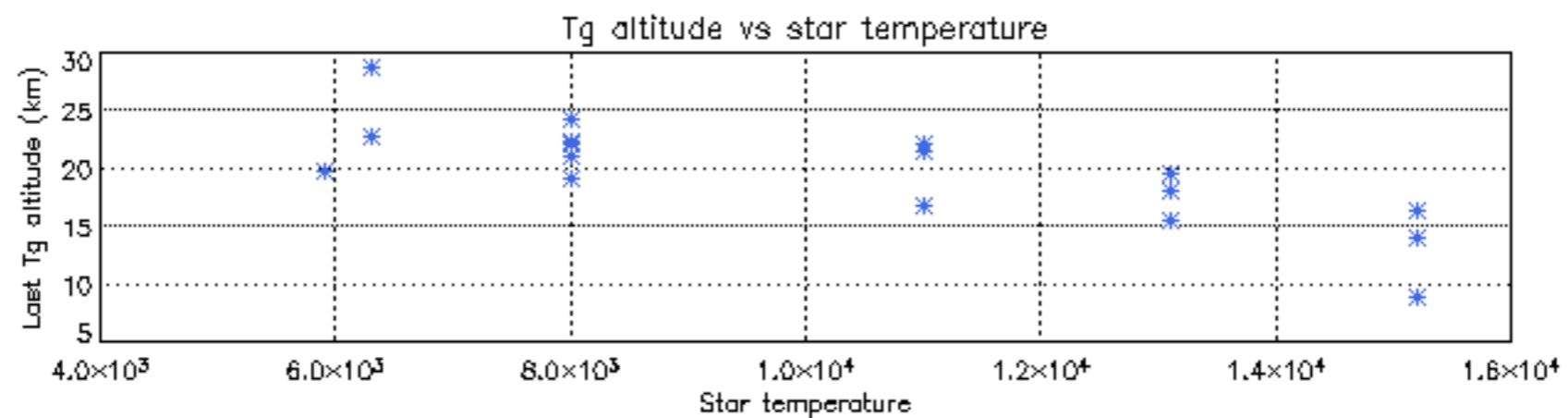
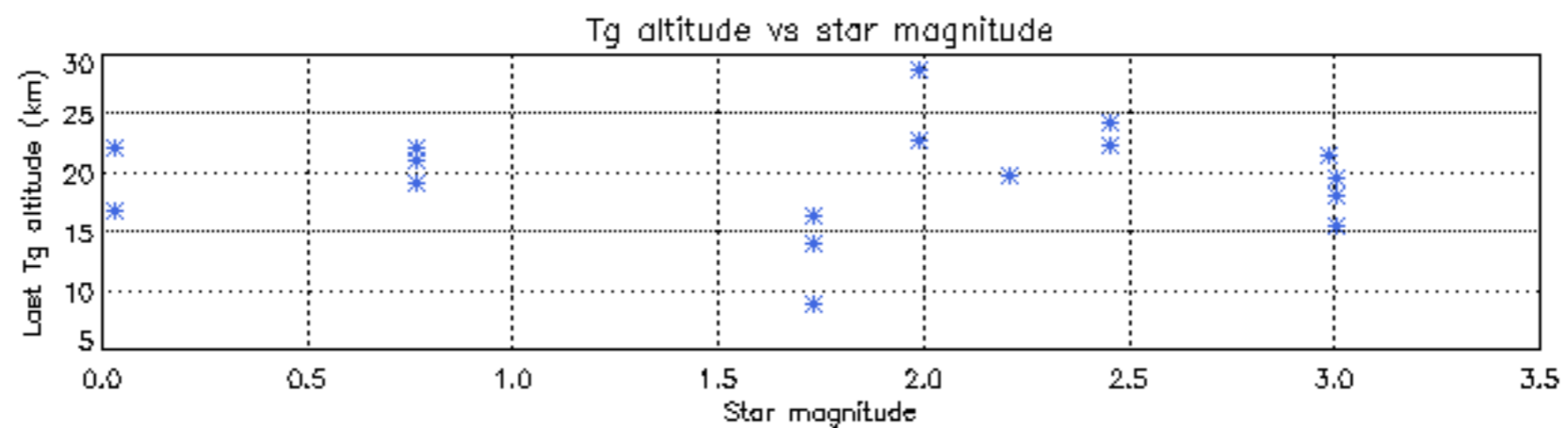
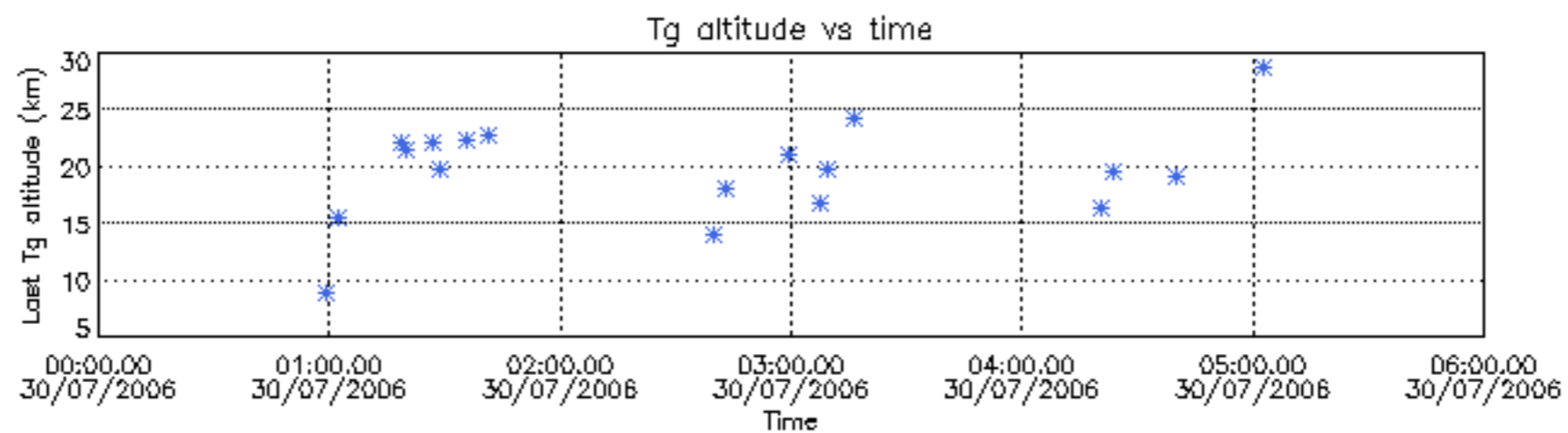
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

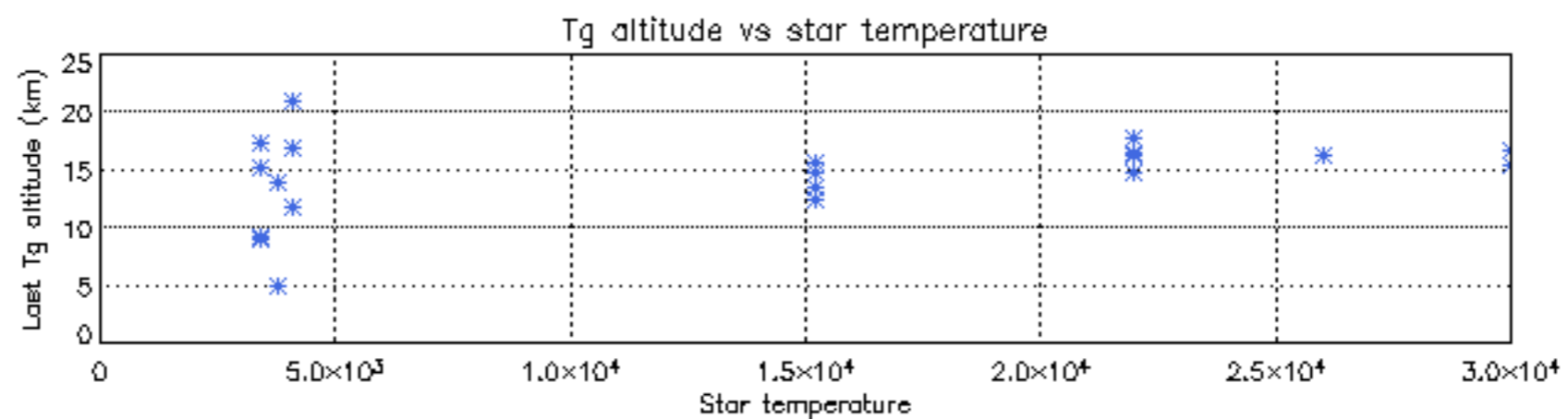
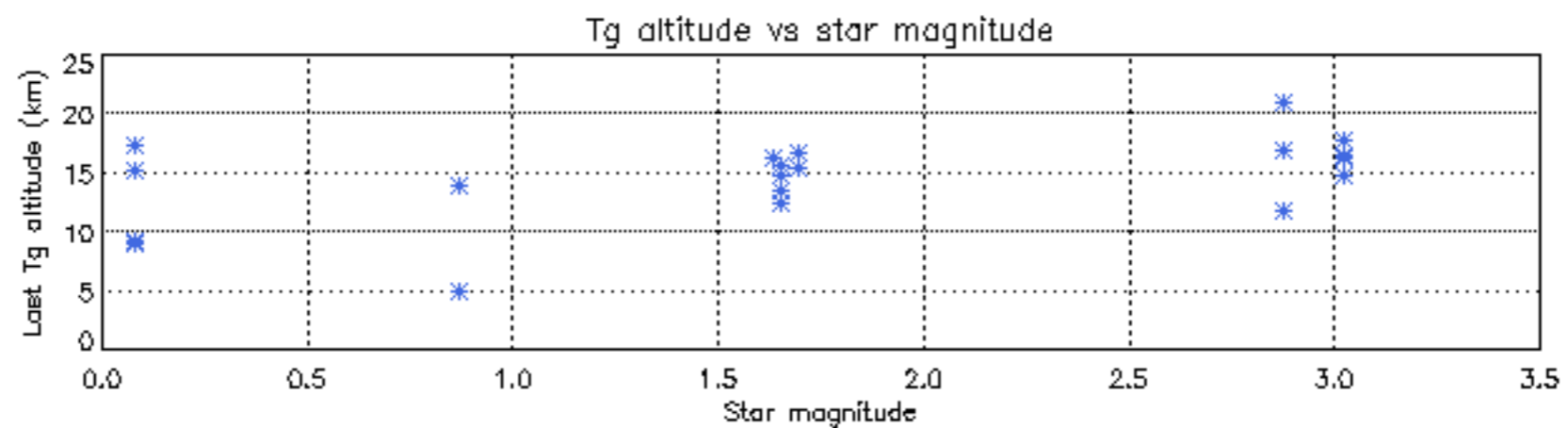
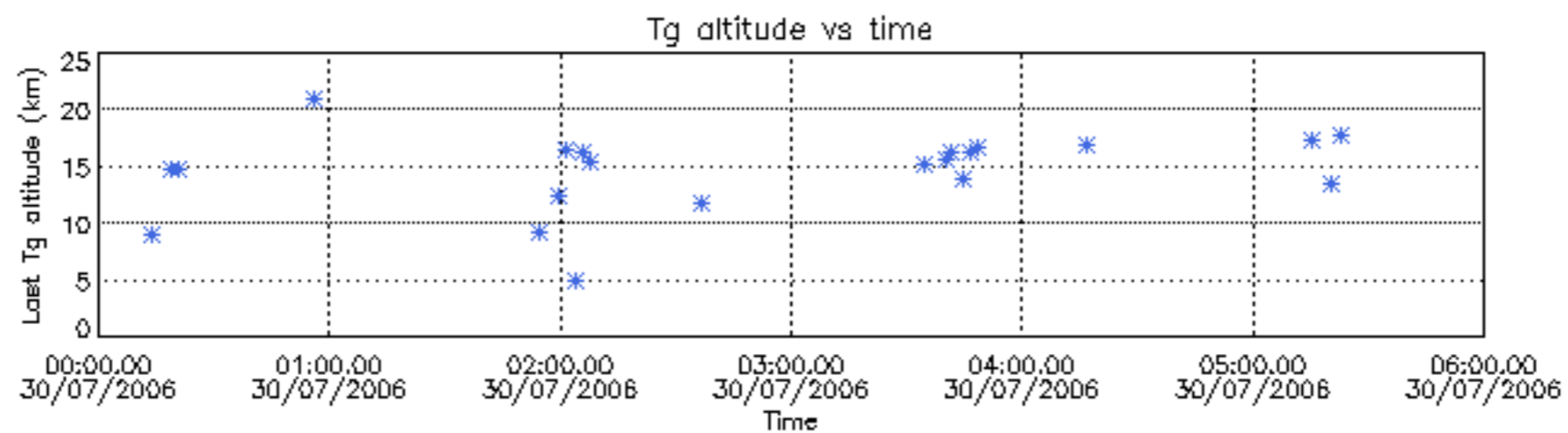


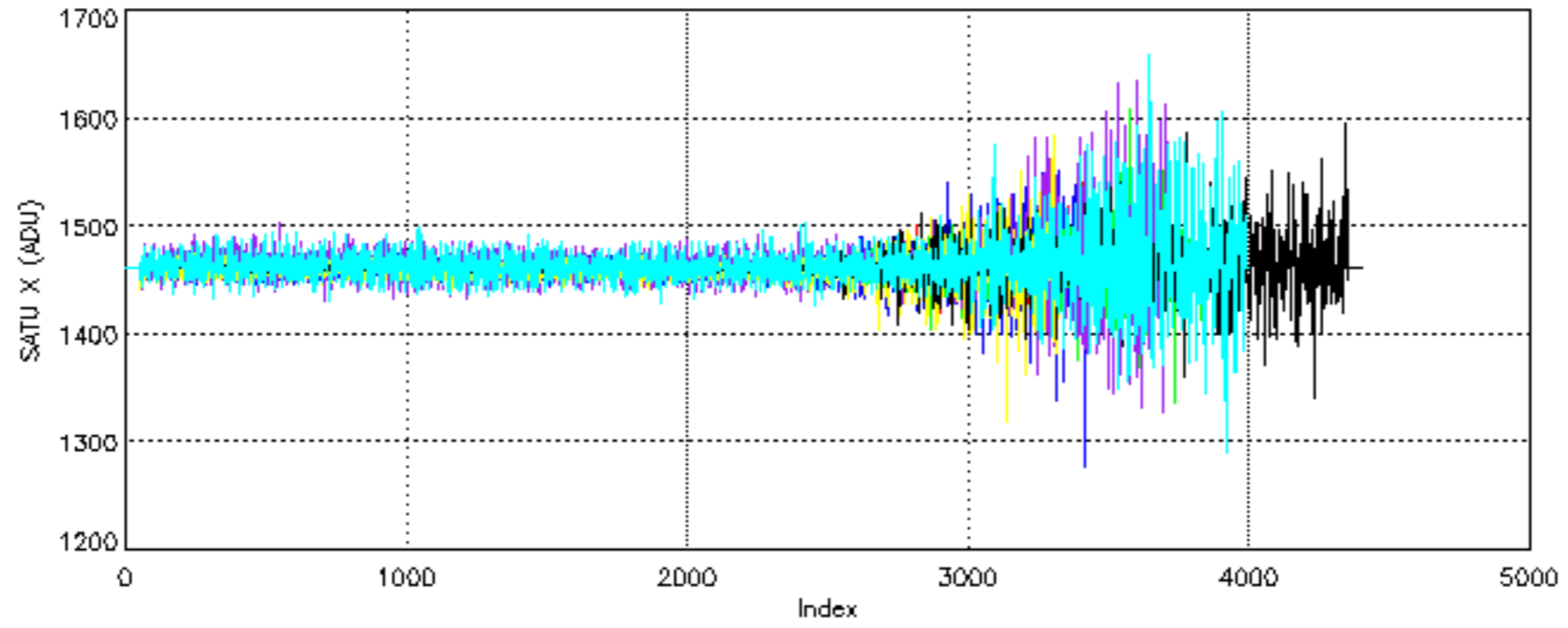
Tangent altitude at which the star is lost

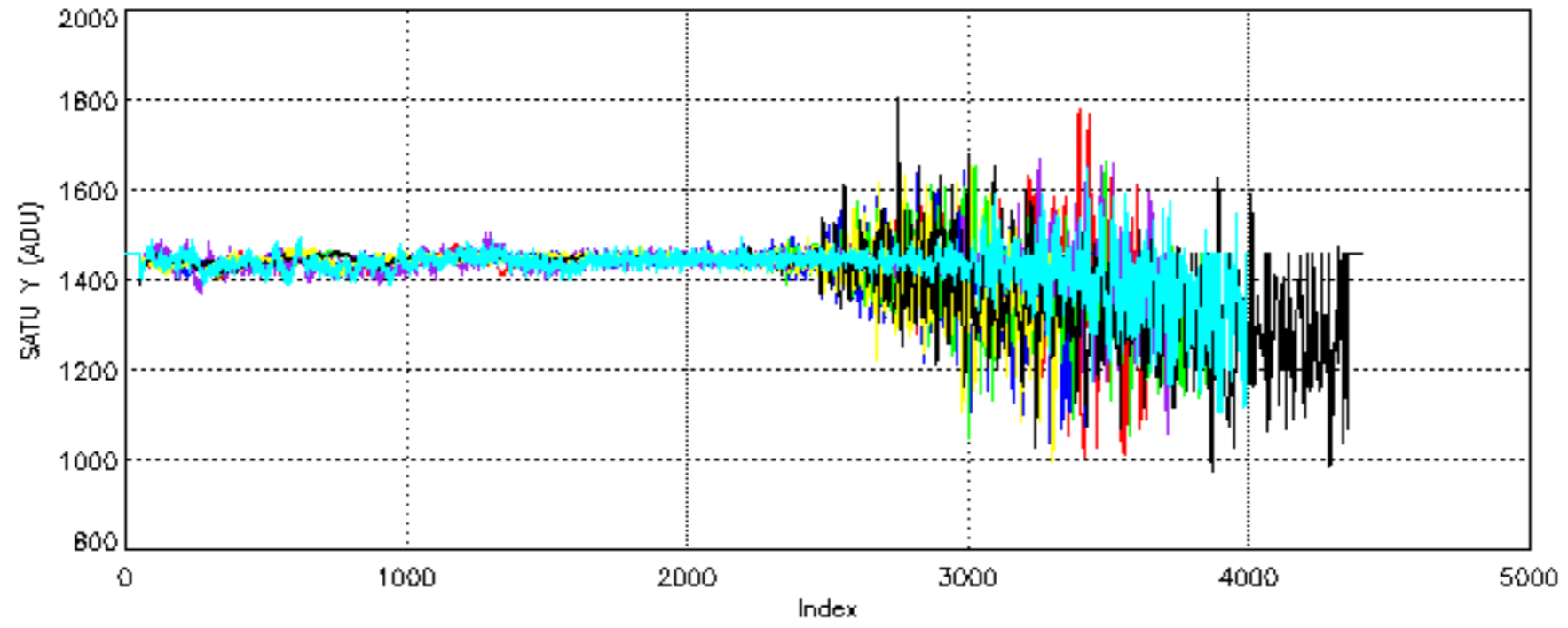


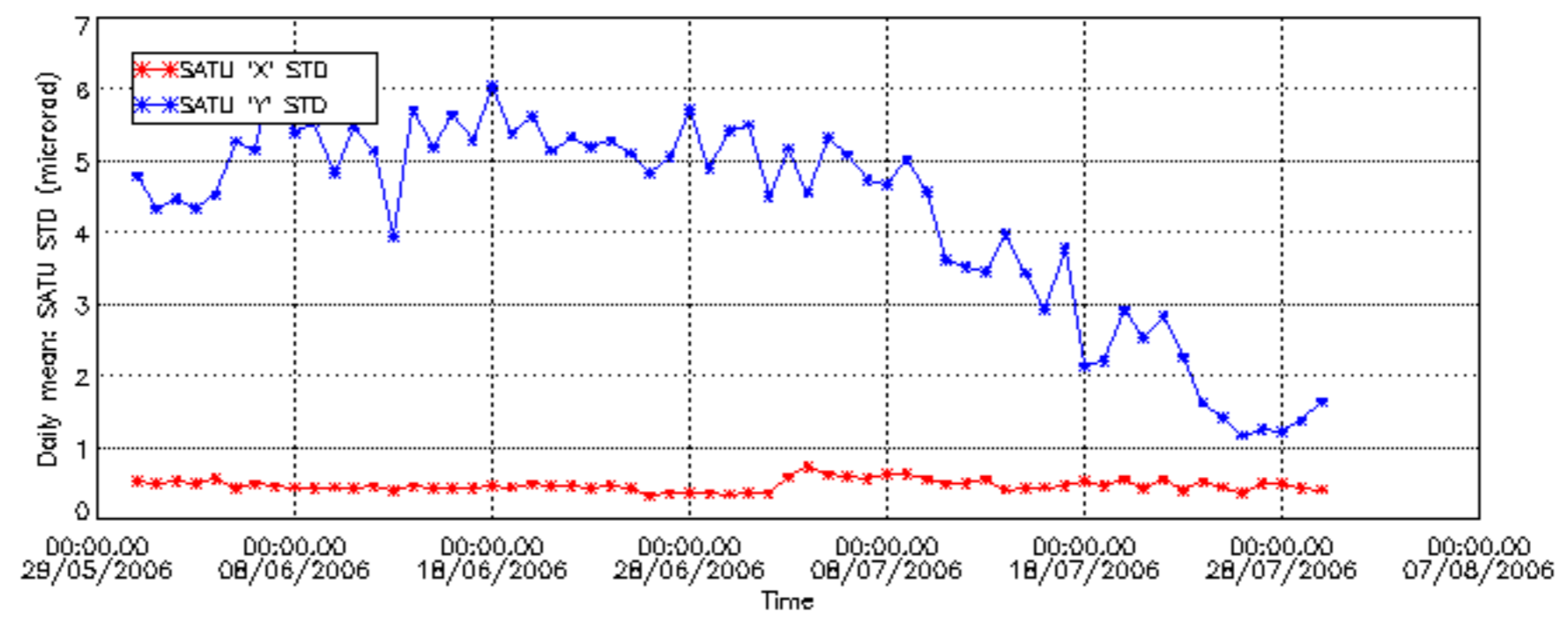


Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20060701\_004113\_000049932049\_00059\_22658\_0025.N1

1; -827.1; 01-JUL-2006 00:41:13; Dark ; 37.5; 165; 34Gam Eri ; 2.95; 3200;occ; 75; 18;22658  
 2; -321.7; 01-JUL-2006 00:49:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;22658  
 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  
 12; 2121.9; 01-JUL-2006 01:30:22; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;22659  
 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  
 20; 4130.4; 01-JUL-2006 02:03:51; Bright; 36.5; 35; 33Alp Per ; 1.79; 6250;occ; 73; 0;22659

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1; -835.8; 01-JUL-2006 02:21:40; Dark ; 41.0; 165; 34Gam Eri ; 2.95; 3200;occ; 82; 0;22659  
 2; -321.1; 01-JUL-2006 02:30:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;22659  
 3; 35.4; 01-JUL-2006 02:36:11; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;22660  
 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  
 10; 1642.5; 01-JUL-2006 03:02:59; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;22660  
 11; 1981.9; 01-JUL-2006 03:08:38; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;22660  
 12; 2121.8; 01-JUL-2006 03:10:58; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;22660  
 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  
 15; 2809.2; 01-JUL-2006 03:22:25; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;22660  
 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  
 18; 3444.9; 01-JUL-2006 03:33:01; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;22660

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 4; -320.5; 01-JUL-2006 04:10:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;22660  
 5; 36.0; 01-JUL-2006 04:16:48; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;22661  
 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  
 15; 2283.6; 01-JUL-2006 04:54:16; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;22661  
 16; 2448.0; 01-JUL-2006 04:57:00; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;22661  
 17; 2809.0; 01-JUL-2006 05:03:01; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;22661  
 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  
 20; 3444.9; 01-JUL-2006 05:13:37; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;22661

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1; -1973.2; 01-JUL-2006 05:23:55; Bright; 31.0; 160; 23Gam Per ; 2.93; 4700;occ; 62; 0;22661  
 2; -1905.3; 01-JUL-2006 05:25:03; Bright; 37.5; 35; 33Alp Per ; 1.79; 6250;occ; 75; 0;22661  
 3; -834.3; 01-JUL-2006 05:42:54; Dark ; 41.5; 165; 34Gam Eri ; 2.95; 3200;occ; 83; 0;22661  
 4; -319.9; 01-JUL-2006 05:51:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;22661  
 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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7; 745.8; 01-JUL-2006 06:09:14; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;22662
8; 1063.2; 01-JUL-2006 06:14:31; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;22662
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
13; 1981.8; 01-JUL-2006 06:29:50; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;22662
14; 2121.7; 01-JUL-2006 06:32:10; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;22662
15; 2283.8; 01-JUL-2006 06:34:52; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;22662
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
20; 3444.9; 01-JUL-2006 06:54:13; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;22662
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2; 1173.1; 01-JUL-2006 19:41:08; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;22670
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
5; 1644.2; 01-JUL-2006 19:48:59; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;22670
6; 1981.9; 01-JUL-2006 19:54:37; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;22670
7; 2121.6; 01-JUL-2006 19:56:57; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;22670
8; 2285.2; 01-JUL-2006 19:59:40; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;22670
9; 2448.9; 01-JUL-2006 20:02:24; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;22670
10; 2807.7; 01-JUL-2006 20:08:23; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;22670
11; 2952.8; 01-JUL-2006 20:10:48; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;22670
12; 3192.9; 01-JUL-2006 20:14:48; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;22670
13; 3444.9; 01-JUL-2006 20:19:00; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;22670
14; 4130.7; 01-JUL-2006 20:30:26; Bright; 35.5; 35; 33Alp Per ; 1.79; 6250;occ; 71; 0;22670
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5; 750.1; 01-JUL-2006 21:14:42; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;22671
6; 1064.8; 01-JUL-2006 21:19:56; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;22671
7; 1173.1; 01-JUL-2006 21:21:45; Dark ; 38.5; 40; The Sco ; 1.86; 7100;occ; 77; 0;22671
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9; 1357.7; 01-JUL-2006 21:24:49; Dark ; 46.5; 116; 19Del Sgr ; 2.70; 4100;occ; 93; 0;22671
10; 1644.1; 01-JUL-2006 21:29:36; Bright; 35.0; 86; 35Eta Oph ; 2.43; 10200;occ; 70; 0;22671
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
14; 2448.7; 01-JUL-2006 21:43:00; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;22671
15; 2807.2; 01-JUL-2006 21:48:59; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;22671
16; 2952.6; 01-JUL-2006 21:51:24; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;22671
17; 3192.7; 01-JUL-2006 21:55:24; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;22671
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