

# GOMOS Daily Report 03-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	05JUL2006 04:31:52
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (03JUL2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (04JUL2006 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)

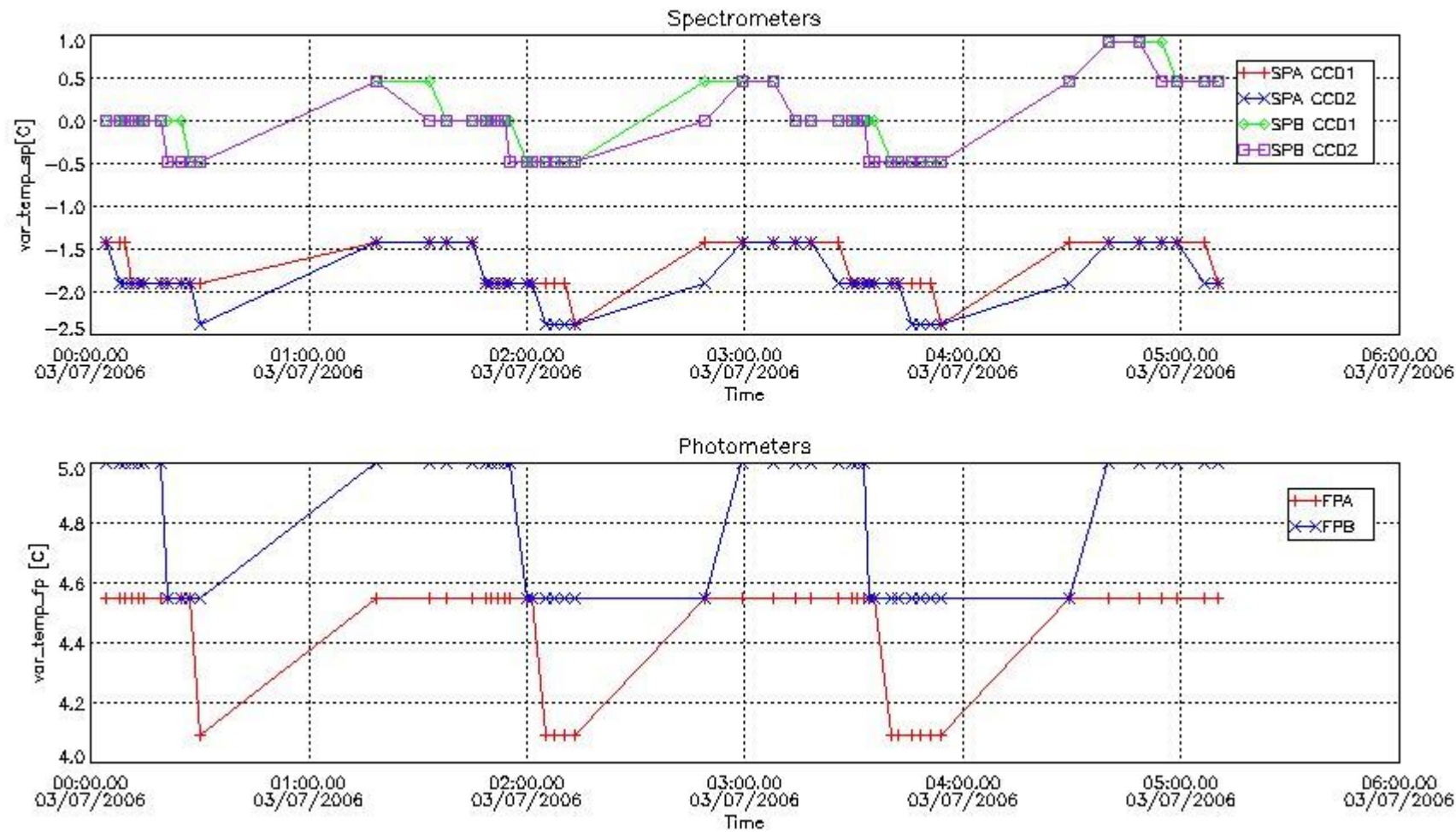
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 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_1PNPDE20060703_000424_000000412049_00088_22687_0003.N1	03-JUL-2006 00:04:24	Twilight	40.500	45	Alp Pav	1.9400	26000.	81	22687	No
2	GOM_TRA_1PNPDE20060703_000806_000000422049_00088_22687_0004.N1	03-JUL-2006 00:08:06	Bright	42.000	141	Bet Ara	2.8400	4600.0	84	22687	No
3	GOM_TRA_1PNPDE20060703_000934_000000382049_00088_22687_0005.N1	03-JUL-2006 00:09:34	Bright	37.500	147	Alp Ara	2.8770	26000.	75	22687	No
4	GOM_TRA_1PNPDE20060703_001123_000000412049_00088_22687_0006.N1	03-JUL-2006 00:11:23	Bright	41.000	40	The Sco	1.8590	7100.0	82	22687	No
5	GOM_TRA_1PNPDE20060703_001302_000000402049_00088_22687_0007.N1	03-JUL-2006 00:13:02	Bright	40.000	25	35Lam Sco	1.6200	28000.	80	22687	No
6	GOM_TRA_1PNPDE20060703_001428_000000432049_00088_22687_0008.N1	03-JUL-2006 00:14:28	Bright	43.000	116	19Del Sgr	2.7000	4100.0	86	22687	No
7	GOM_TRA_1PNPDE20060703_001913_000000372049_00088_22687_0009.N1	03-JUL-2006 00:19:13	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	22687	No
8	GOM_TRA_1PNPDE20060703_002059_000000362049_00088_22687_0010.N1	03-JUL-2006 00:20:59	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	22687	No
9	GOM_TRA_1PNPDE20060703_002448_000000362049_00088_22687_0011.N1	03-JUL-2006 00:24:48	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	22687	No
10	GOM_TRA_1PNPDE20060703_002707_000000362049_00088_22687_0012.N1	03-JUL-2006 00:27:07	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	22687	No
11	GOM_TRA_1PNPDE20060703_002954_000000342049_00088_22687_0013.N1	03-JUL-2006 00:29:54	Bright	34.000	127	27Bet Her	2.7810	4700.0	68	22687	No
12	GOM_TRA_1PNPDE20060703_011834_000000432049_00088_22687_0000.N1	03-JUL-2006 01:18:34	Dark	42.500	165	34Gam Eri	2.9500	3200.0	85	22687	No
13	GOM_TRA_1PNPDE20060703_013312_000000442049_00089_22688_0001.N1	03-JUL-2006 01:33:12	Dark	44.000	9	Alp Eri	0.45300	24000.	88	22688	No
14	GOM_TRA_1PNPDE20060703_013744_000000382049_00089_22688_0002.N1	03-JUL-2006 01:37:44	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	22688	No
15	GOM_TRA_1PNPDE20060703_014501_000000422049_00089_22688_0003.N1	03-JUL-2006 01:45:01	Twilight	41.500	45	Alp Pav	1.9400	26000.	83	22688	No
16	GOM_TRA_1PNPDE20060703_014842_000000392049_00089_22688_0004.N1	03-JUL-2006 01:48:42	Bright	38.500	141	Bet Ara	2.8400	4600.0	77	22688	No
17	GOM_TRA_1PNPDE20060703_015010_000000372049_00089_22688_0005.N1	03-JUL-2006 01:50:10	Bright	37.000	147	Alp Ara	2.8770	26000.	74	22688	No
18	GOM_TRA_1PNPDE20060703_015159_000000442049_00089_22688_0006.N1	03-JUL-2006 01:51:59	Bright	43.500	40	The Sco	1.8590	7100.0	87	22688	No
19	GOM_TRA_1PNPDE20060703_015338_000000412049_00089_22688_0007.N1	03-JUL-2006 01:53:38	Bright	40.500	25	35Lam Sco	1.6200	28000.	81	22688	No
20	GOM_TRA_1PNPDE20060703_015504_000000432049_00089_22688_0008.N1	03-JUL-2006 01:55:04	Bright	43.000	116	19Del Sgr	2.7000	4100.0	86	22688	No
21	GOM_TRA_1PNPDE20060703_015949_000000372049_00089_22688_0009.N1	03-JUL-2006 01:59:49	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	22688	No
22	GOM_TRA_1PNPDE20060703_020135_000000352049_00089_22688_0010.N1	03-JUL-2006 02:01:35	Bright	35.000	98	13Zet Oph	2.5710	30000.	70	22688	No
23	GOM_TRA_1PNPDE20060703_020524_000000372049_00089_22688_0011.N1	03-JUL-2006 02:05:24	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	22688	No
24	GOM_TRA_1PNPDE20060703_020743_000000372049_00089_22688_0012.N1	03-JUL-2006 02:07:43	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	22688	No
25	GOM_TRA_1PNPDE20060703_021030_000000352049_00089_22688_0013.N1	03-JUL-2006 02:10:30	Bright	35.000	127	27Bet Her	2.7810	4700.0	70	22688	No
26	GOM_TRA_1PNPDE20060703_021312_000000352049_00089_22688_0014.N1	03-JUL-2006 02:13:12	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	22688	No
27	GOM_TRA_1PNPDE20060703_024846_000000402049_00089_22688_0000.N1	03-JUL-2006 02:48:46	Twilight	40.000	146	25Eta Tau	2.8730	15200.	80	22688	No
28	GOM_TRA_1PNPDE20060703_025911_000000442049_00089_22688_0001.N1	03-JUL-2006 02:59:11	Dark	43.500	165	34Gam Eri	2.9500	3200.0	87	22688	No
29	GOM_TRA_1PNPDE20060703_030739_000000382049_00089_22688_0002.N1	03-JUL-2006 03:07:39	Dark	38.000	157	The1Eri	2.9060	9300.0	76	22688	No
30	GOM_TRA_1PNPDE20060703_031348_000000502049_00090_22689_0003.N1	03-JUL-2006 03:13:48	Dark	50.000	9	Alp Eri	0.45300	24000.	100	22689	No
31	GOM_TRA_1PNPDE20060703_031820_000000372049_00090_22689_0004.N1	03-JUL-2006 03:18:20	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22689	No
32	GOM_TRA_1PNPDE20060703_032537_000000422049_00090_22689_0005.N1	03-JUL-2006 03:25:37	Twilight	41.500	45	Alp Pav	1.9400	26000.	83	22689	No
33	GOM_TRA_1PNPDE20060703_032918_000000412049_00090_22689_0006.N1	03-JUL-2006 03:29:18	Bright	41.000	141	Bet Ara	2.8400	4600.0	82	22689	No
34	GOM_TRA_1PNPDE20060703_033046_000000372049_00090_22689_0007.N1	03-JUL-2006 03:30:46	Bright	37.000	147	Alp Ara	2.8770	26000.	74	22689	No
35	GOM_TRA_1PNPDE20060703_033235_000000422049_00090_22689_0008.N1	03-JUL-2006 03:32:35	Bright	41.500	40	The Sco	1.8590	7100.0	83	22689	No
36	GOM_TRA_1PNPDE20060703_033415_000000402049_00090_22689_0009.N1	03-JUL-2006 03:34:15	Bright	39.500	25	35Lam Sco	1.6200	28000.	79	22689	No
37	GOM_TRA_1PNPDE20060703_033540_000000442049_00090_22689_0010.N1	03-JUL-2006 03:35:40	Bright	44.000	116	19Del Sgr	2.7000	4100.0	88	22689	No
38	GOM_TRA_1PNPDE20060703_034025_000000372049_00090_22689_0011.N1	03-JUL-2006 03:40:25	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	22689	No
39	GOM_TRA_1PNPDE20060703_034211_000000362049_00090_22689_0012.N1	03-JUL-2006 03:42:11	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	22689	No
40	GOM_TRA_1PNPDE20060703_034600_000000362049_00090_22689_0013.N1	03-JUL-2006 03:46:00	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	22689	No
41	GOM_TRA_1PNPDE20060703_034819_000000362049_00090_22689_0014.N1	03-JUL-2006 03:48:19	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	22689	No
42	GOM_TRA_1PNPDE20060703_035106_000000362049_00090_22689_0015.N1	03-JUL-2006 03:51:06	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	22689	No

43	GOM_TRA_1PNPDE20060703_035348_000000382049_00090_22689_0016.N1	03-JUL-2006 03:53:48	Bright	37.500	133	40Zet Her	2.8070	6000.0	75	22689	No
44	GOM_TRA_1PNPDE20060703_042922_000000412049_00090_22689_0000.N1	03-JUL-2006 04:29:22	Twilight	40.500	146	25Eta Tau	2.8730	15200.	81	22689	No
45	GOM_TRA_1PNPDE20060703_043947_000000442049_00090_22689_0001.N1	03-JUL-2006 04:39:47	Dark	44.000	165	34Gam Eri	2.9500	3200.0	88	22689	No
46	GOM_TRA_1PNPDE20060703_044816_000000412049_00090_22689_0002.N1	03-JUL-2006 04:48:16	Dark	40.500	157	The1Eri	2.9060	9300.0	81	22689	No
47	GOM_TRA_1PNPDE20060703_045425_000000442049_00091_22690_0003.N1	03-JUL-2006 04:54:25	Dark	44.000	9	Alp Eri	0.45300	24000.	88	22690	No
48	GOM_TRA_1PNPDE20060703_045857_000000362049_00091_22690_0004.N1	03-JUL-2006 04:58:57	Dark	35.500	135	Bet Hyi	2.8200	5800.0	71	22690	No
49	GOM_TRA_1PNPDE20060703_050614_000000422049_00091_22690_0005.N1	03-JUL-2006 05:06:14	Twilight	42.000	45	Alp Pav	1.9400	26000.	84	22690	No
50	GOM_TRA_1PNPDE20060703_050954_000000402049_00091_22690_0006.N1	03-JUL-2006 05:09:54	Bright	40.000	141	Bet Ara	2.8400	4600.0	80	22690	No

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



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

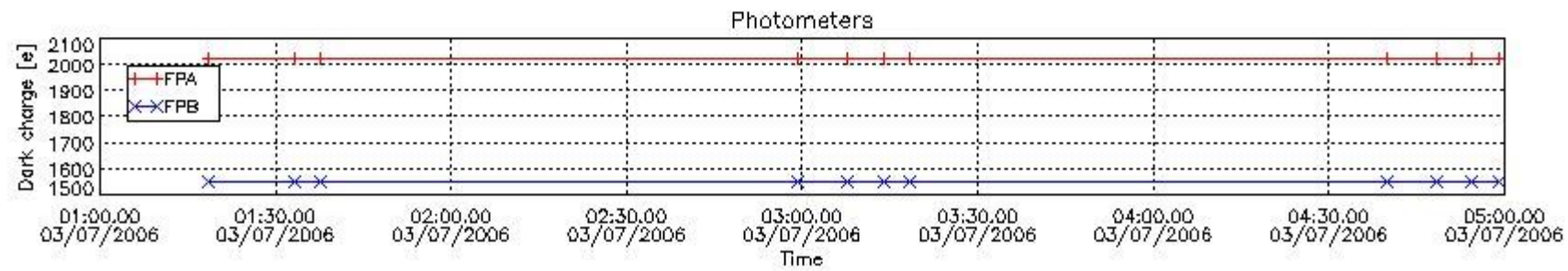
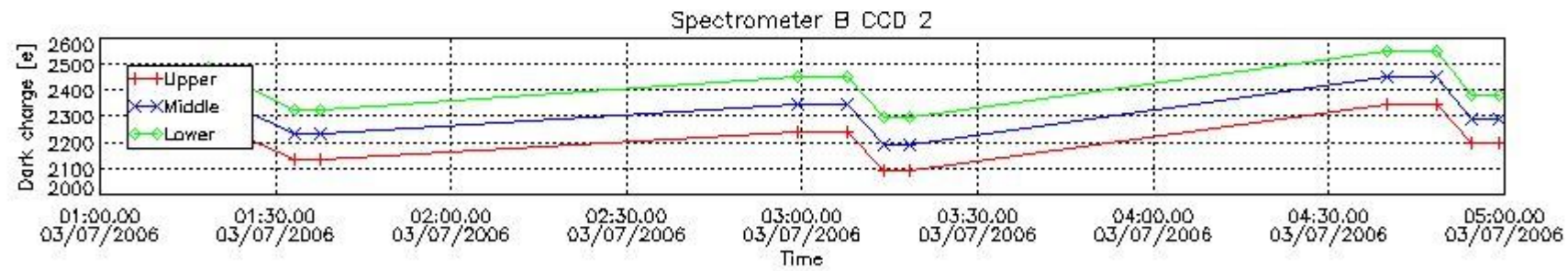
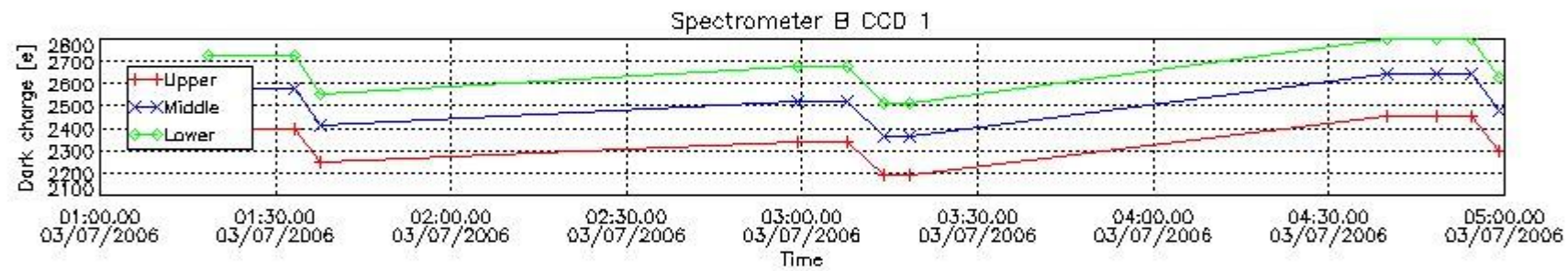
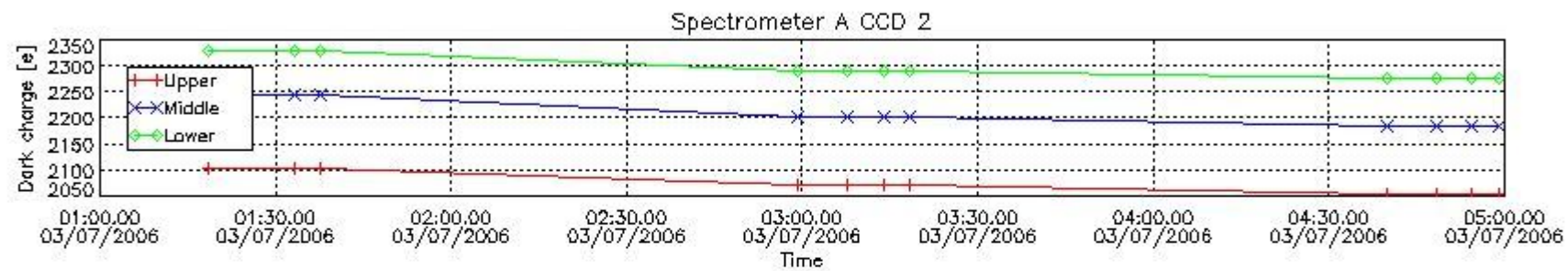
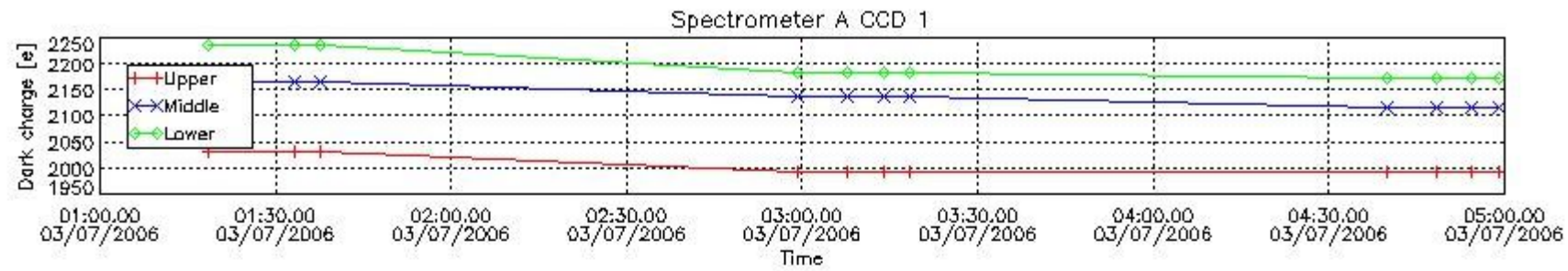
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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





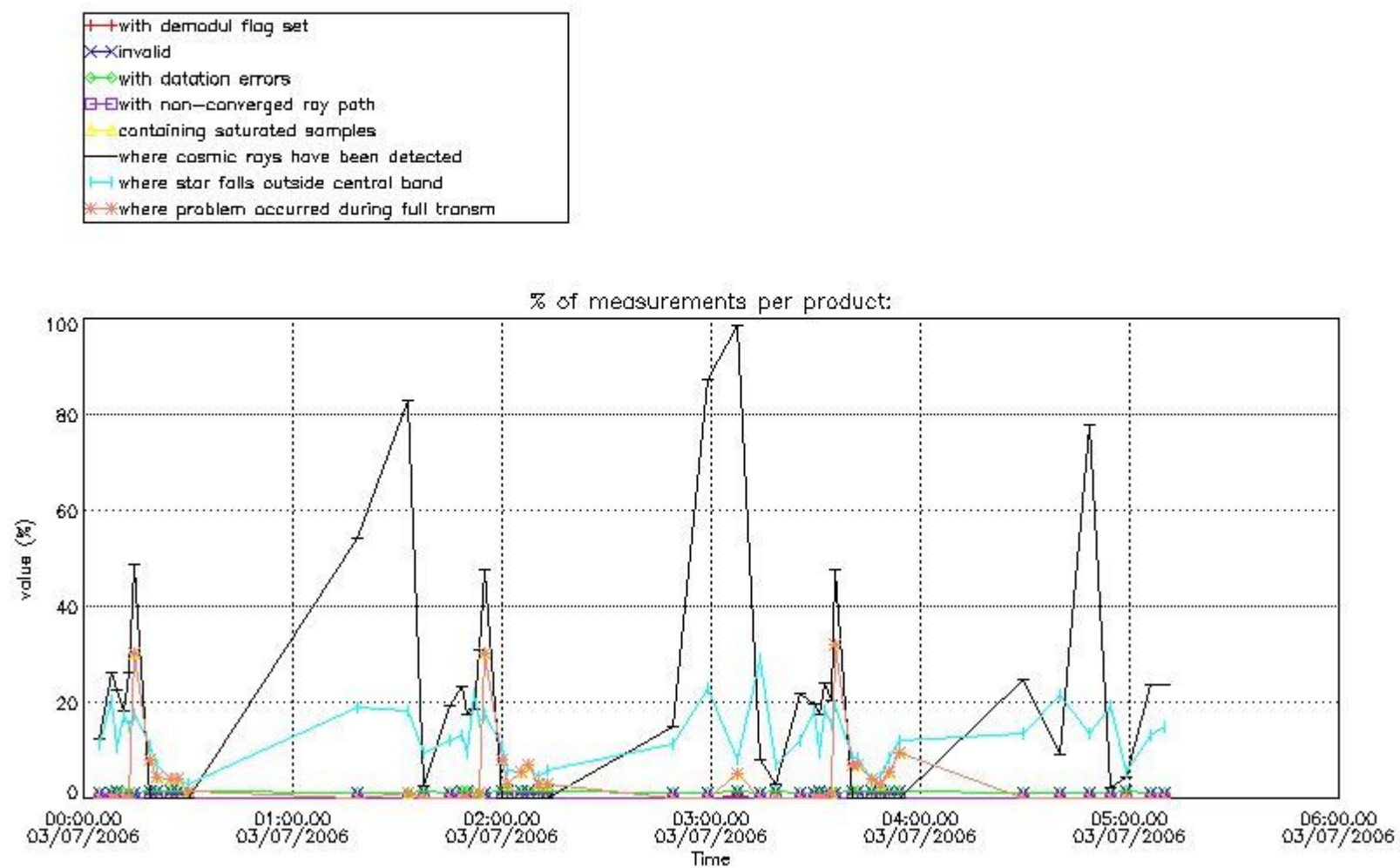
## 5. Demodulation flag and quality information monitoring

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:

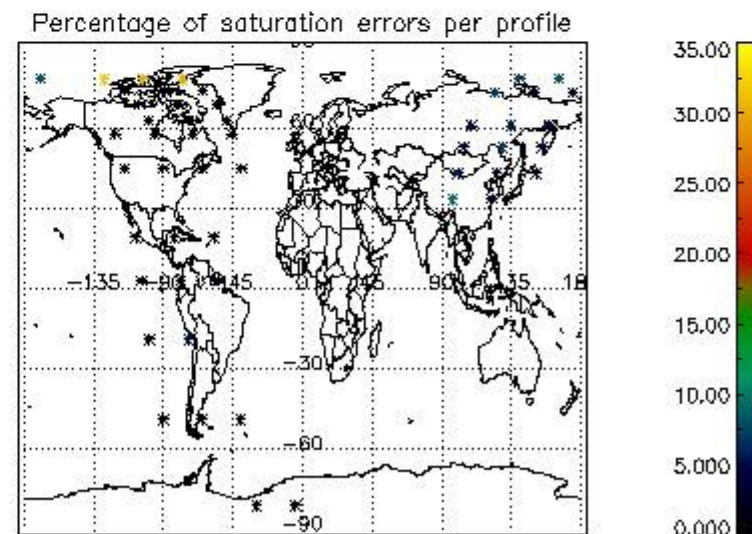
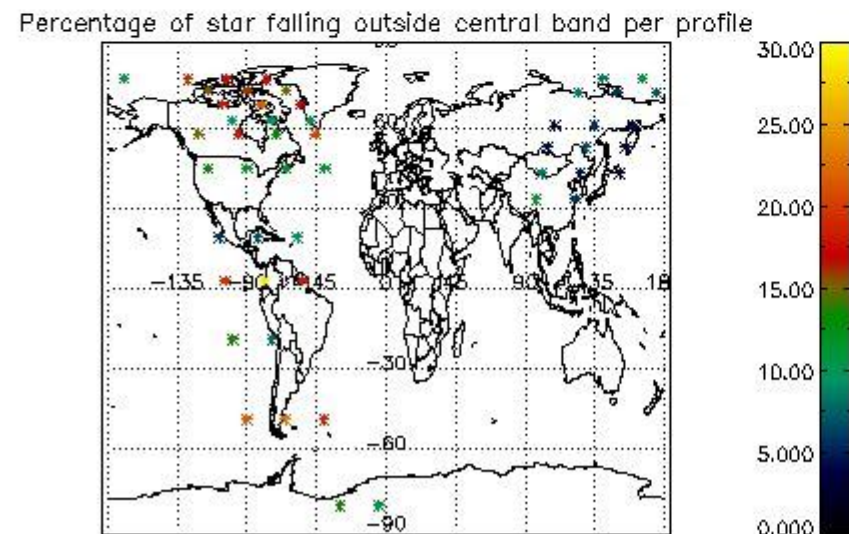
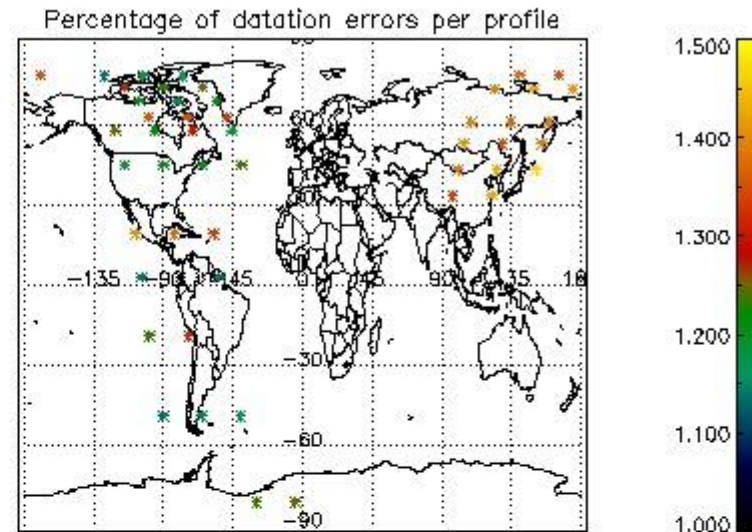
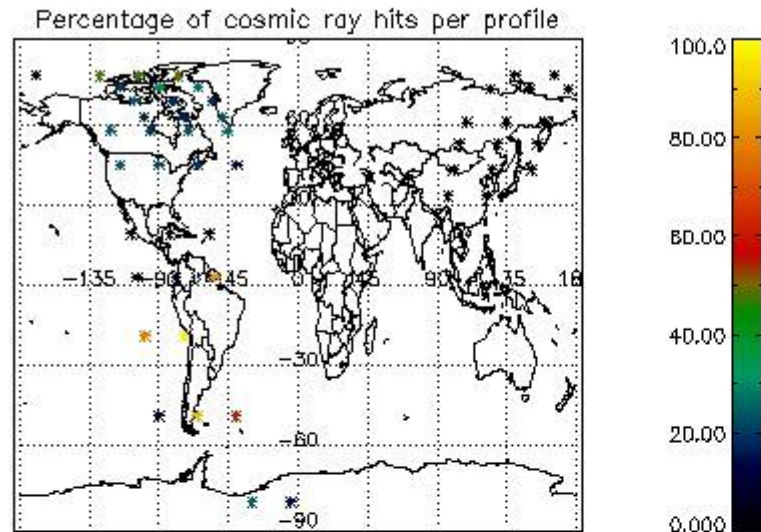
At least one measurement with demodulation flag set:	10.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





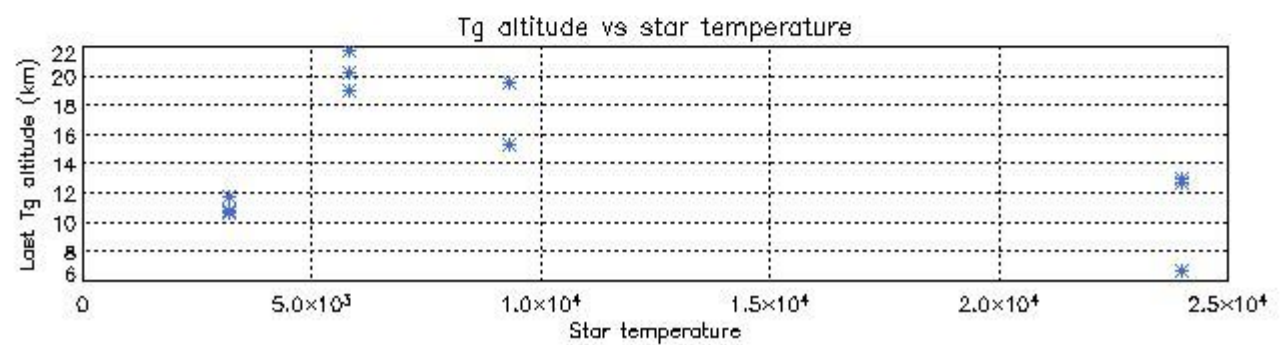
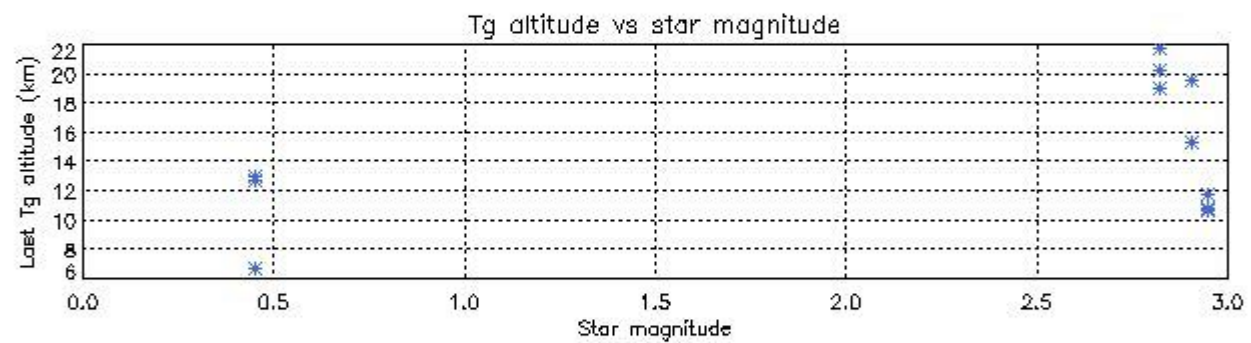
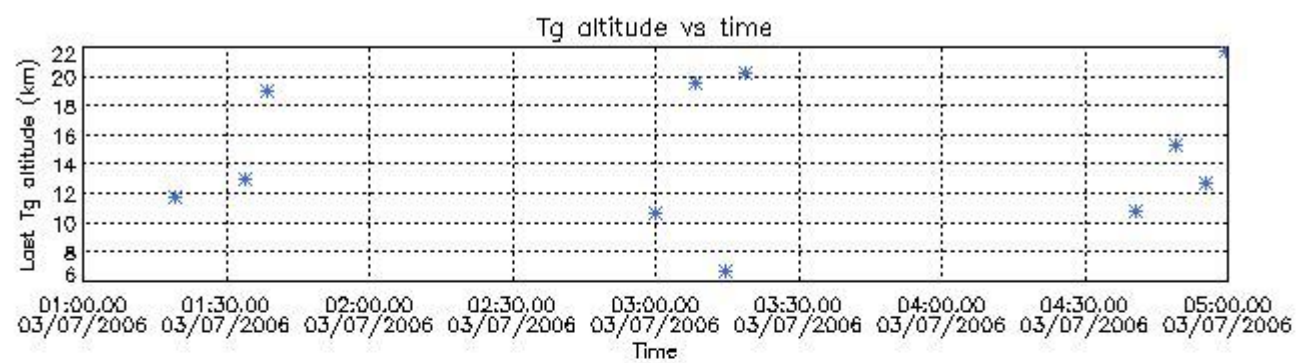
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.642	17.730	16.619
St. deviation:	4.8346	3.6660	1.3020
Maximum:	21.720	23.610	18.509
Minimum:	6.6472	11.173	14.960
Number of data:	11.000	33.000	6.0000

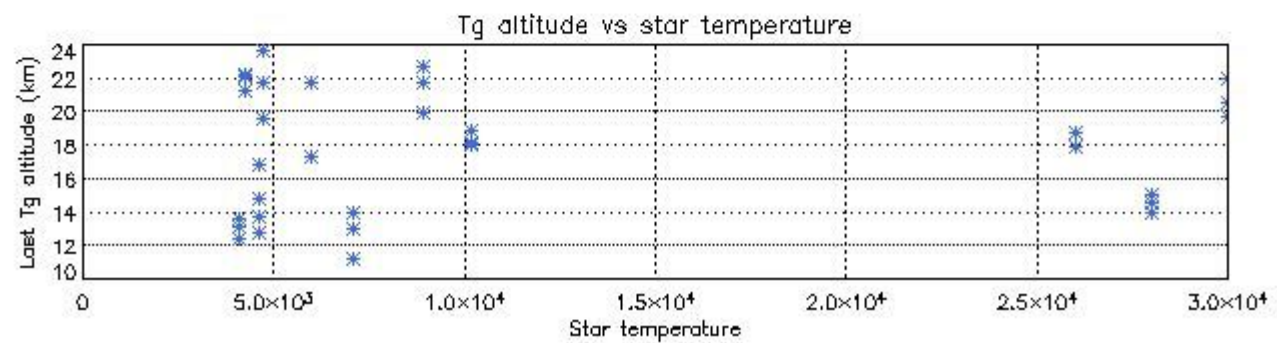
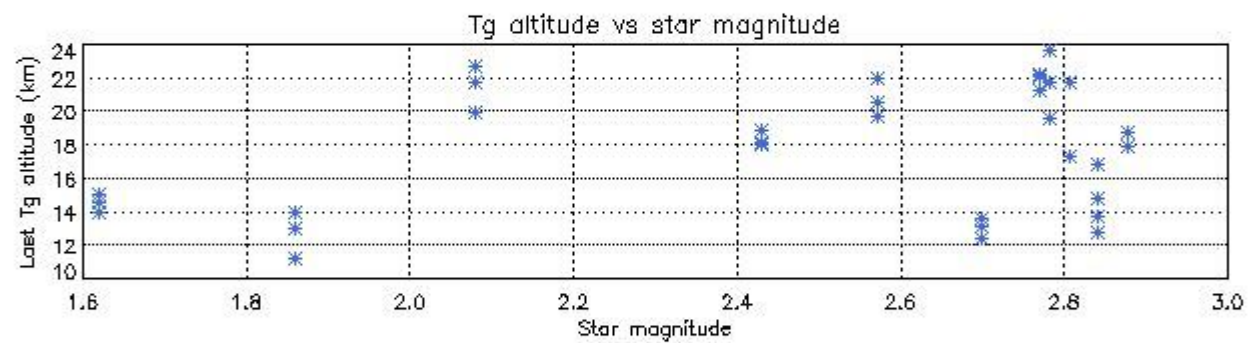
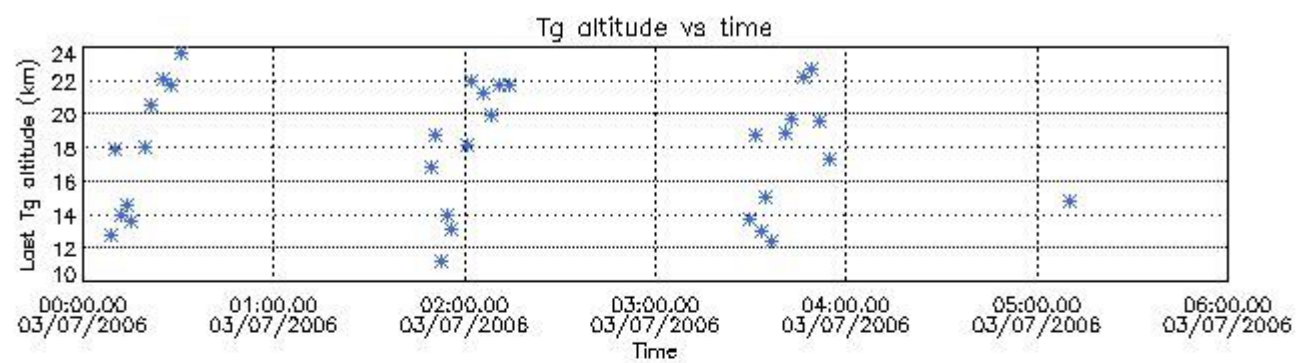
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

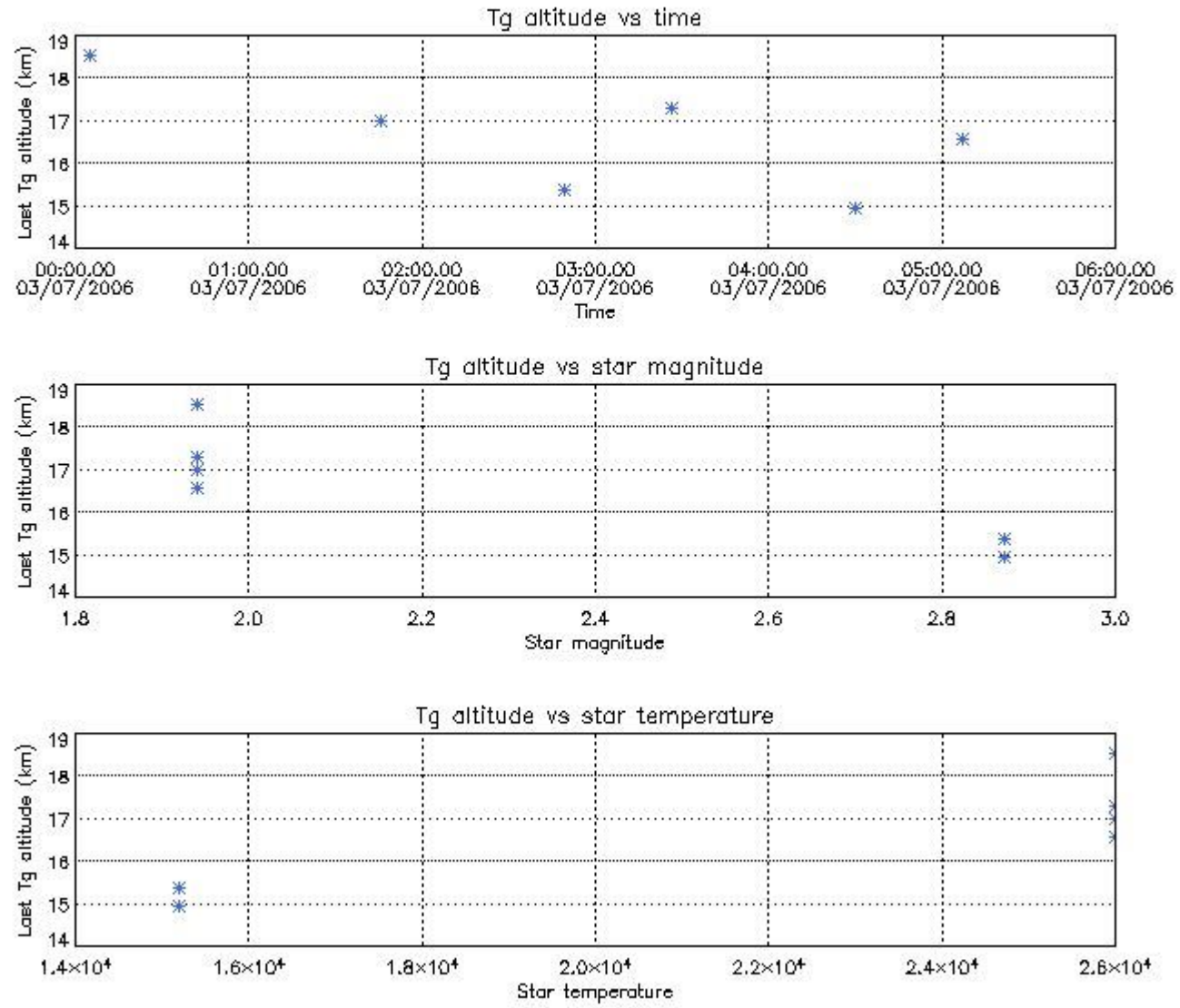
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



## Tangent altitude at which the star is lost

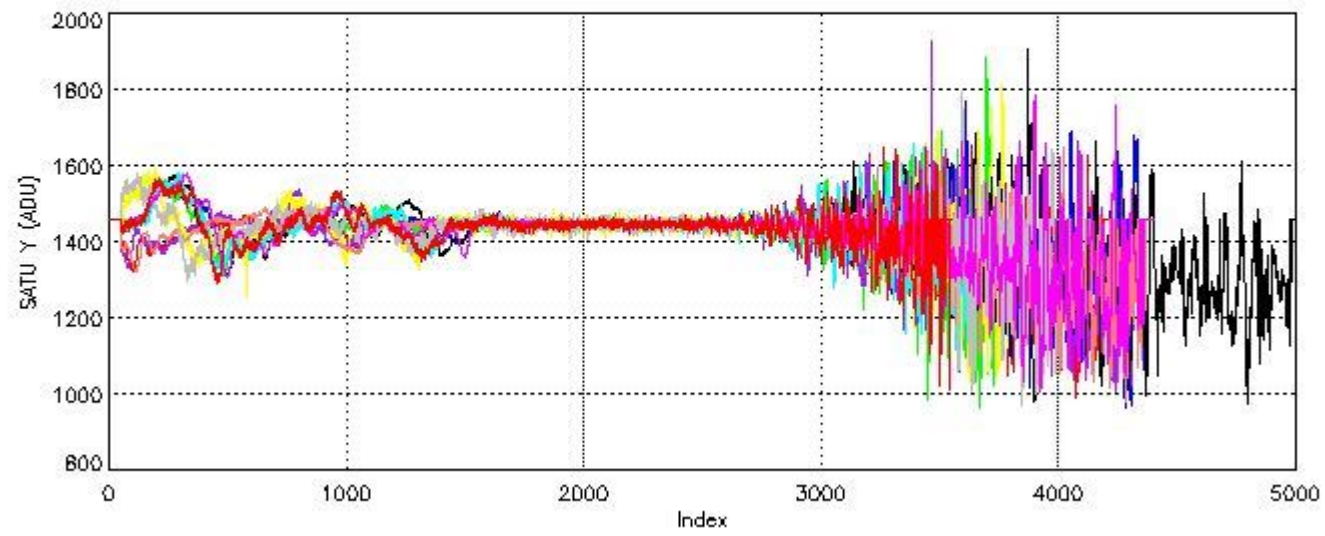
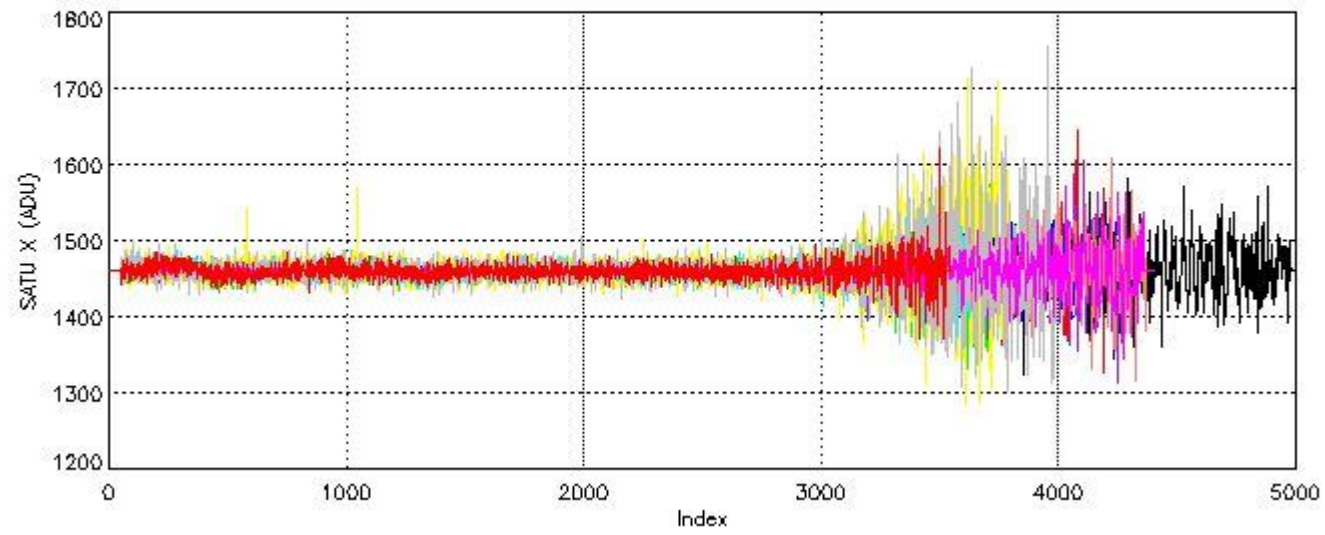


## 7. Star Acquisition and Tracking Unit (SATU)

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.

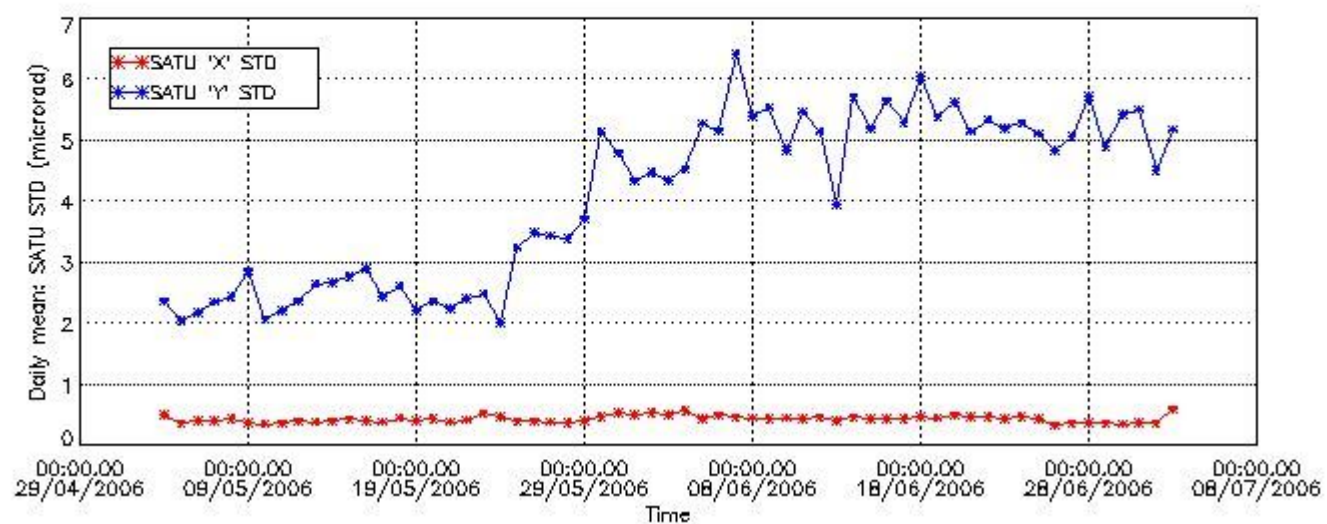
### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.1	1446.2	1460.5	1446.9
St. deviation:	5.7710	51.759	8.0365	63.411
Maximum:	1542.0	1595.0	1503.0	1605.0
Minimum:	1432.0	1288.0	1442.0	1328.0

Number of data:	9750.0	9750.0	27600.	27600.
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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.

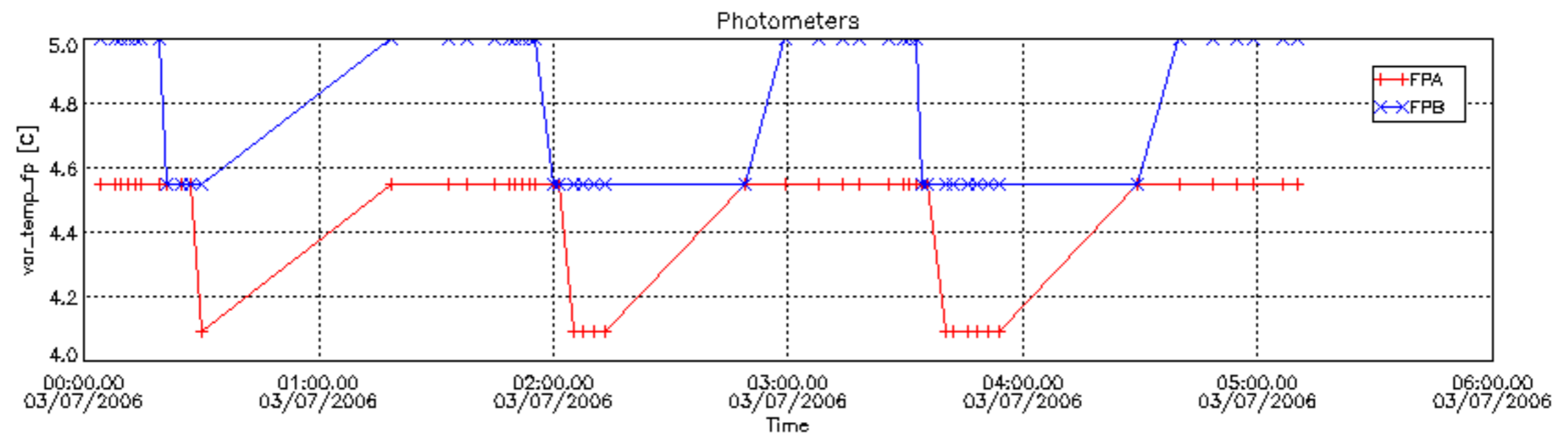
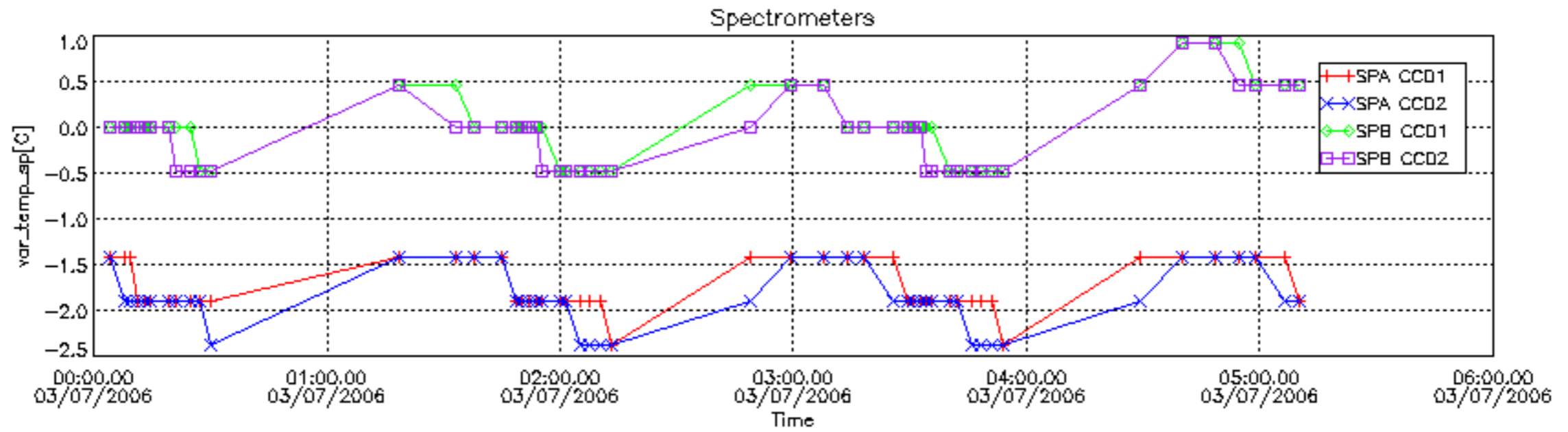


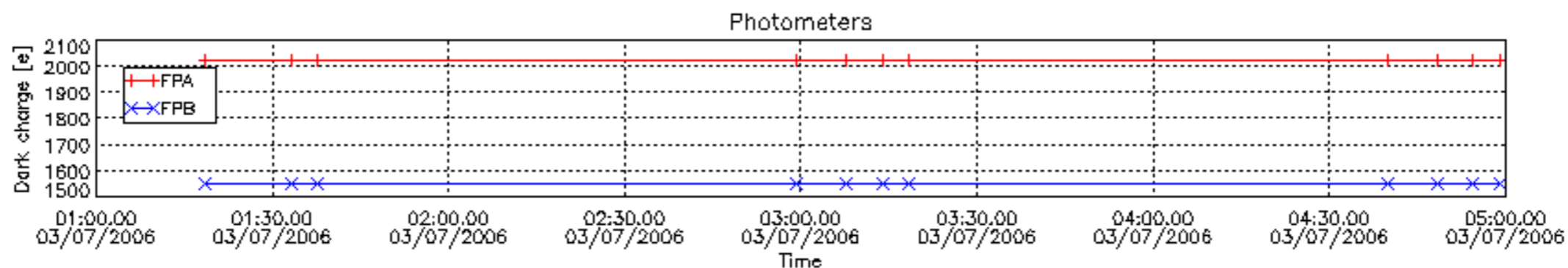
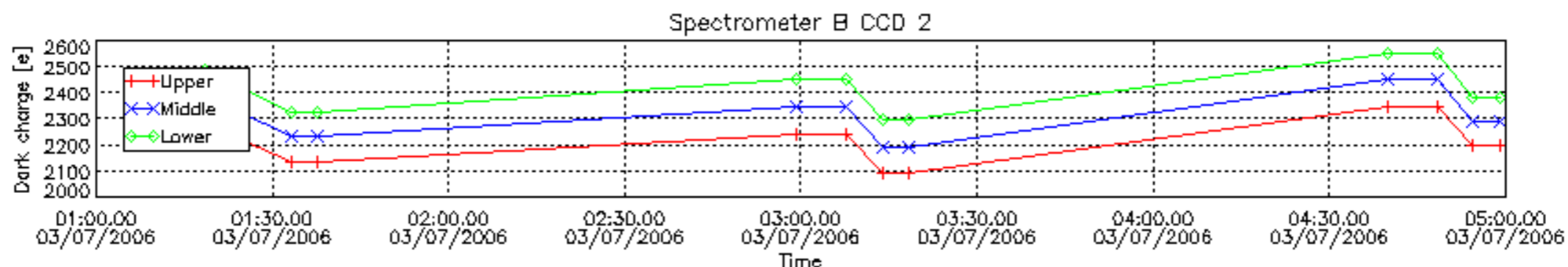
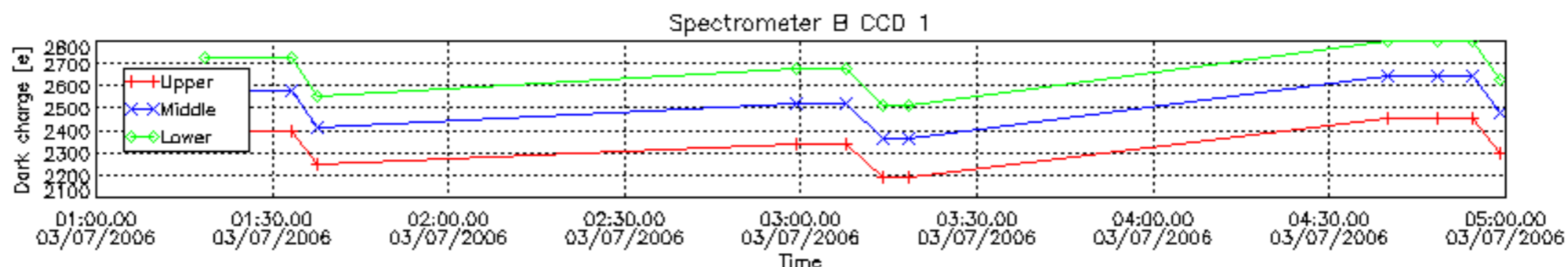
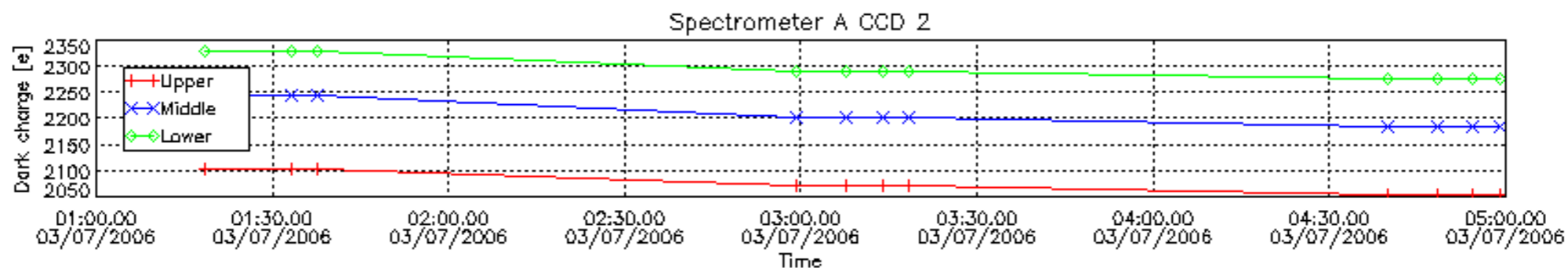
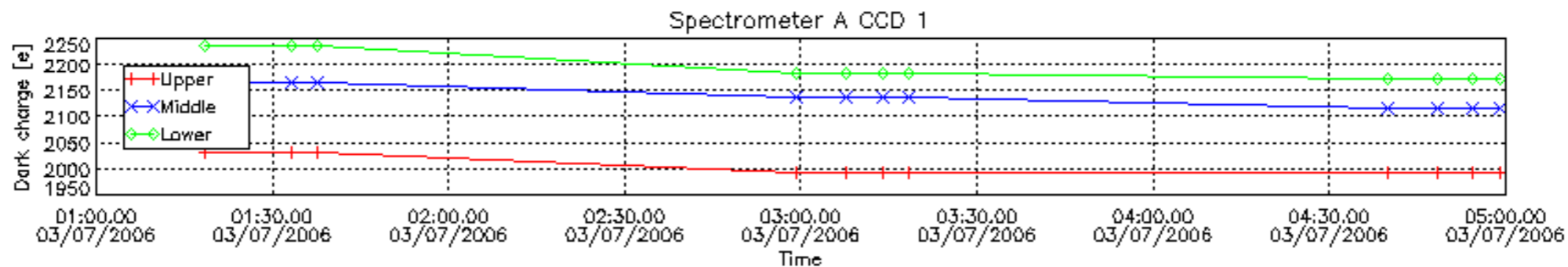
### 8. Auxiliary Data Files used for the production reported in section 2.2

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	03-JUL-2006 00:04:24
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060629_085700_20060627_000000_20100101_000000	1	03-JUL-2006 00:04:24
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	03-JUL-2006 00:04:24
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-JUL-2006 00:04:24
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	03-JUL-2006 00:04:24
ECMWF_FILE	AUX_ECF_AXNECM20060702_062051_20060702_210000_20060703_090000	1	03-JUL-2006 00:04:24
ECMWF_FILE	AUX_ECF_AXNECM20060702_181955_20060703_030000_20060703_150000	44	03-JUL-2006 04:29:22
OPTIONAL_ECMWF_FILE	NOT USED	1	03-JUL-2006 00:04:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060702_233618_000057382049_00087_22686_0038.N1	1	03-JUL-2006 00:04:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060703_023138_000057382049_00089_22688_0040.N1	27	03-JUL-2006 02:48:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060703_041235_000057382049_00090_22689_0041.N1	44	03-JUL-2006 04:29:22



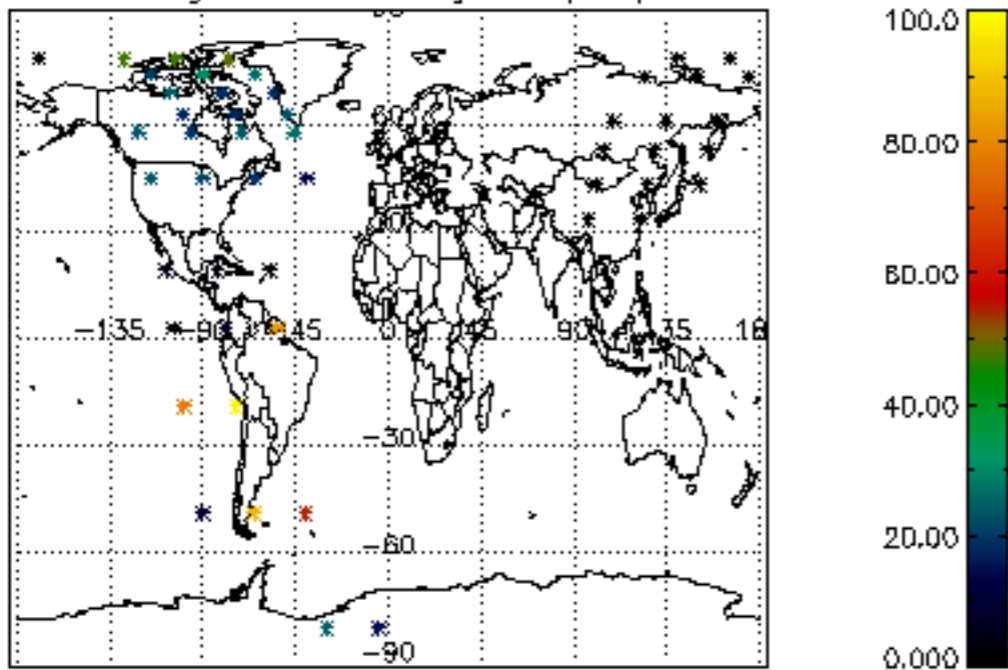




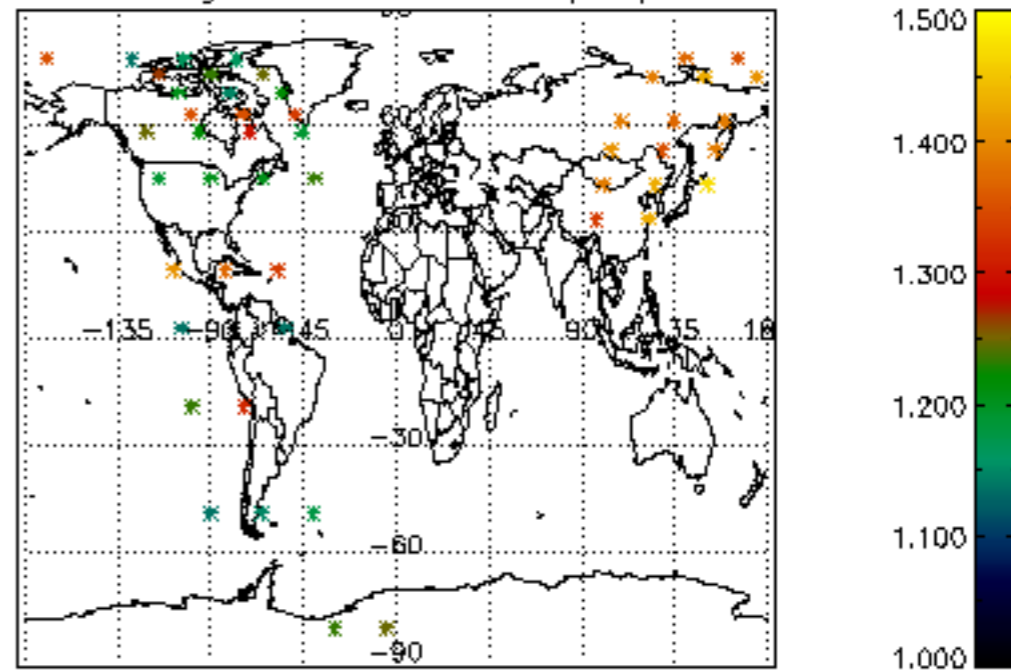




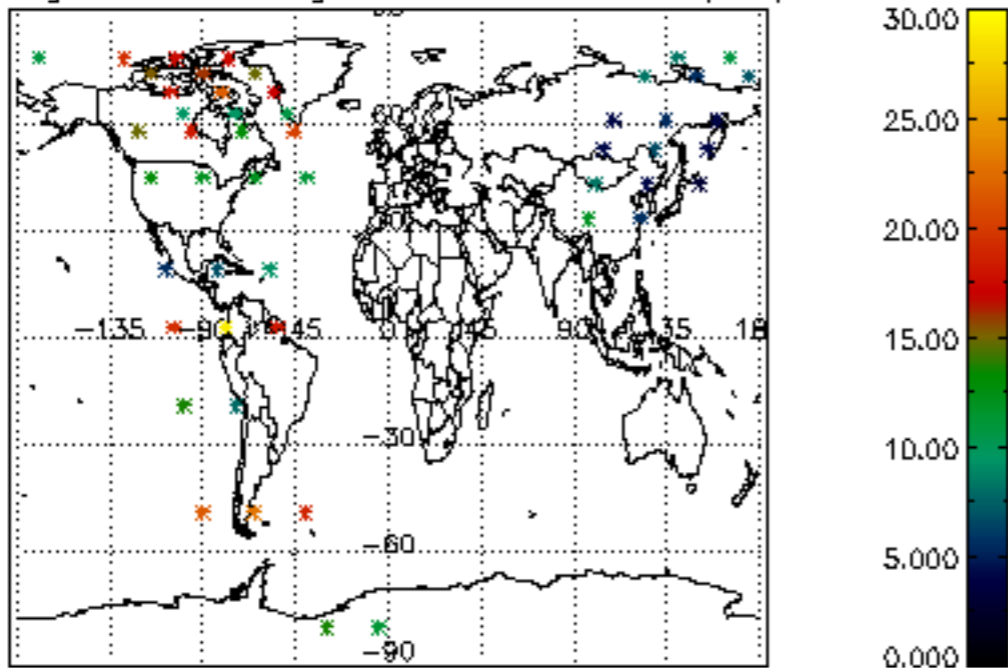
Percentage of cosmic ray hits per profile



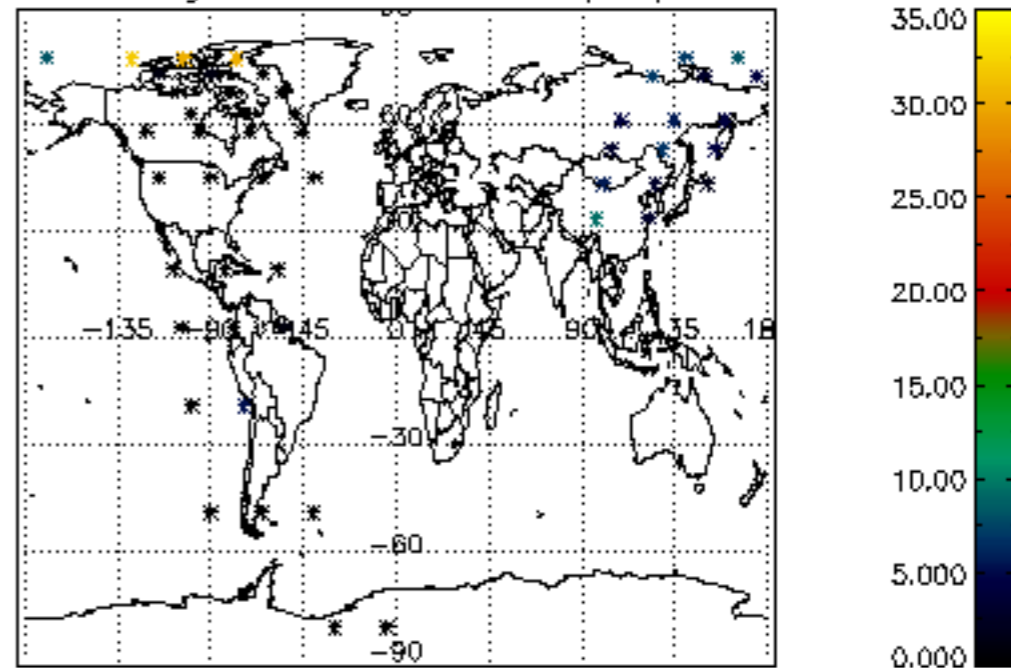
Percentage of datation errors per profile



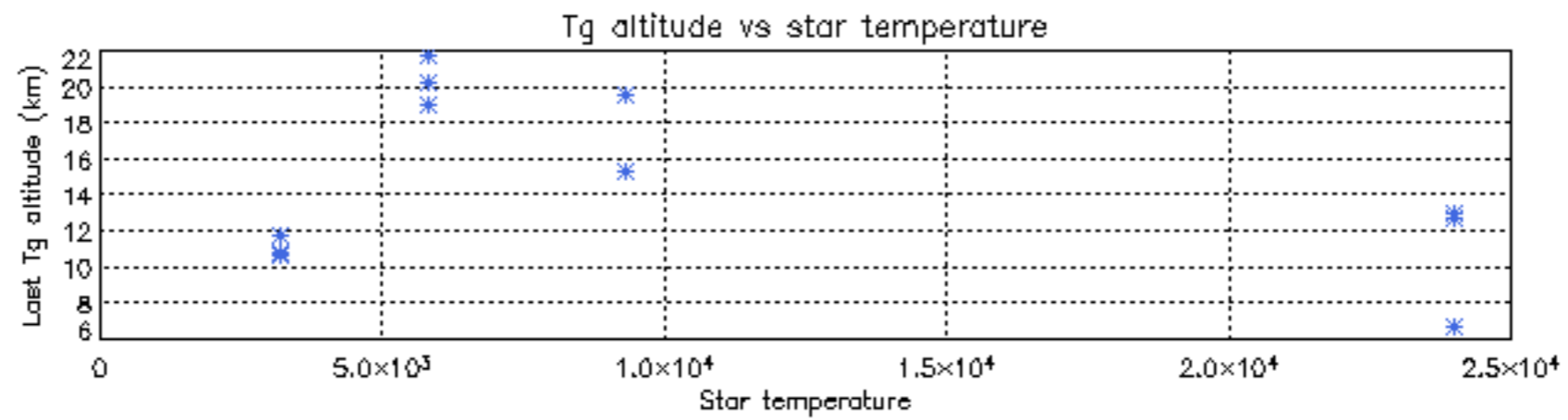
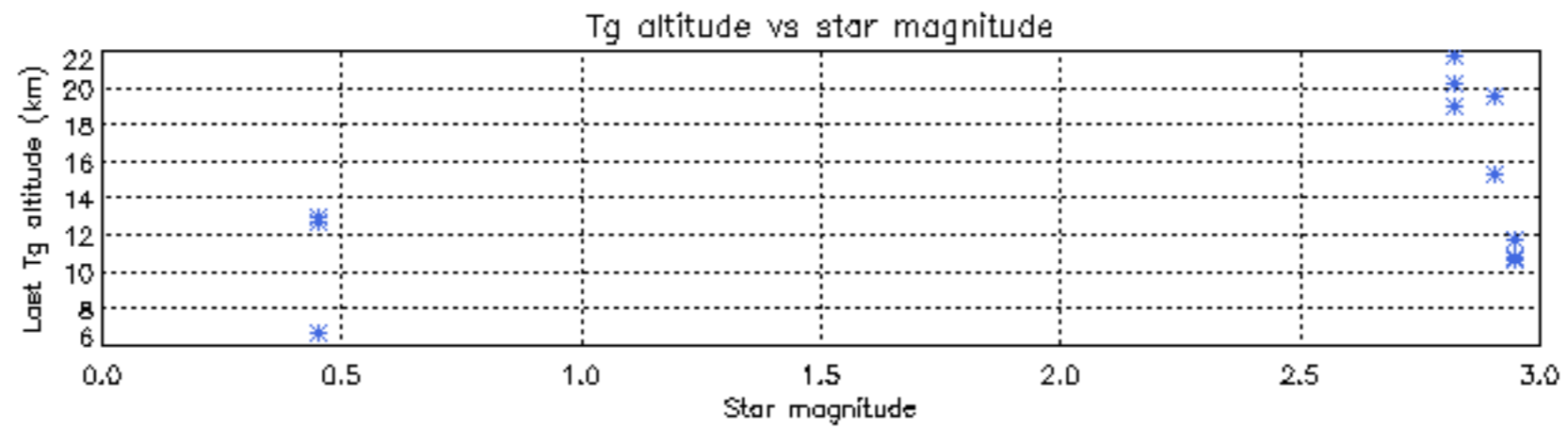
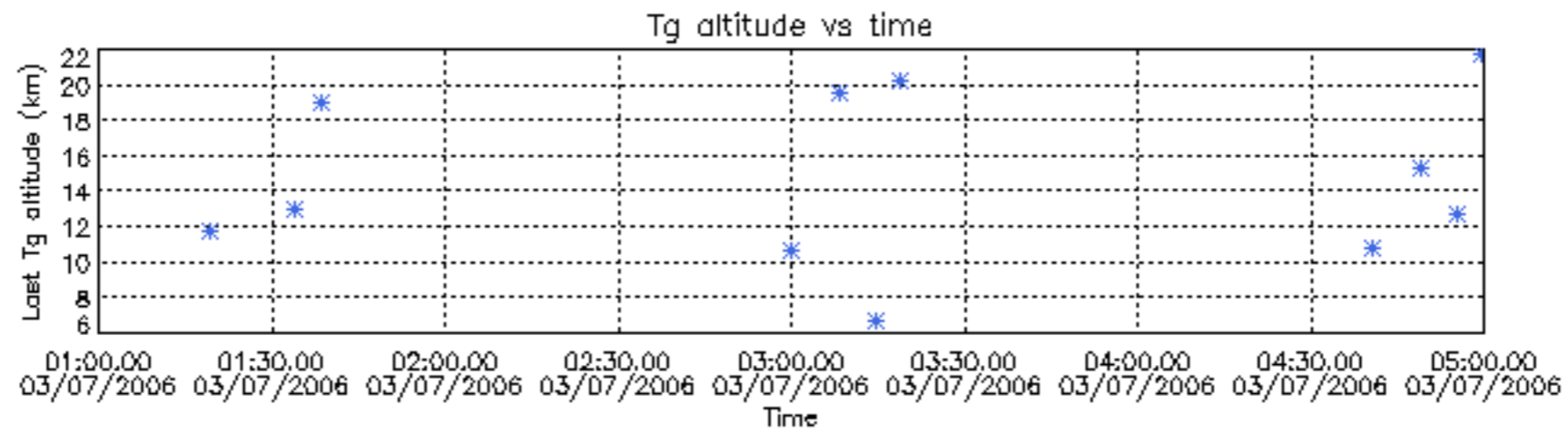
Percentage of star falling outside central band per profile



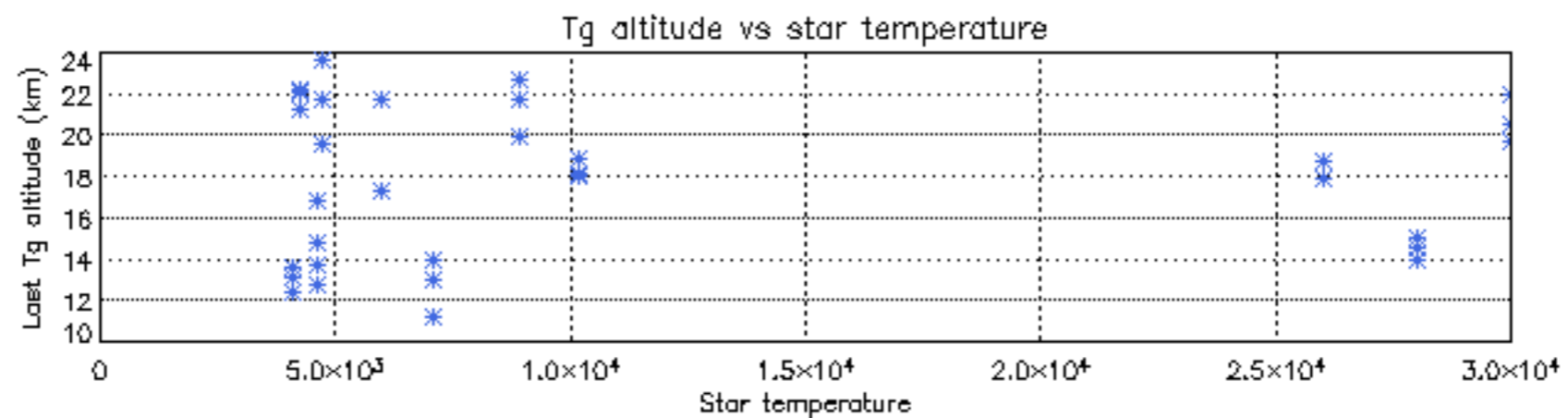
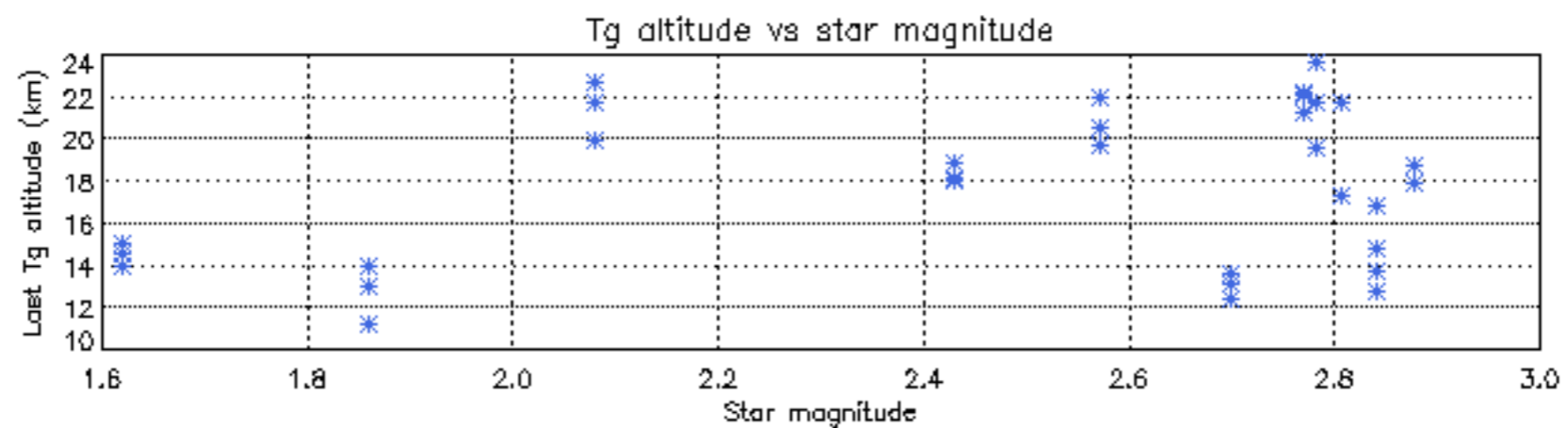
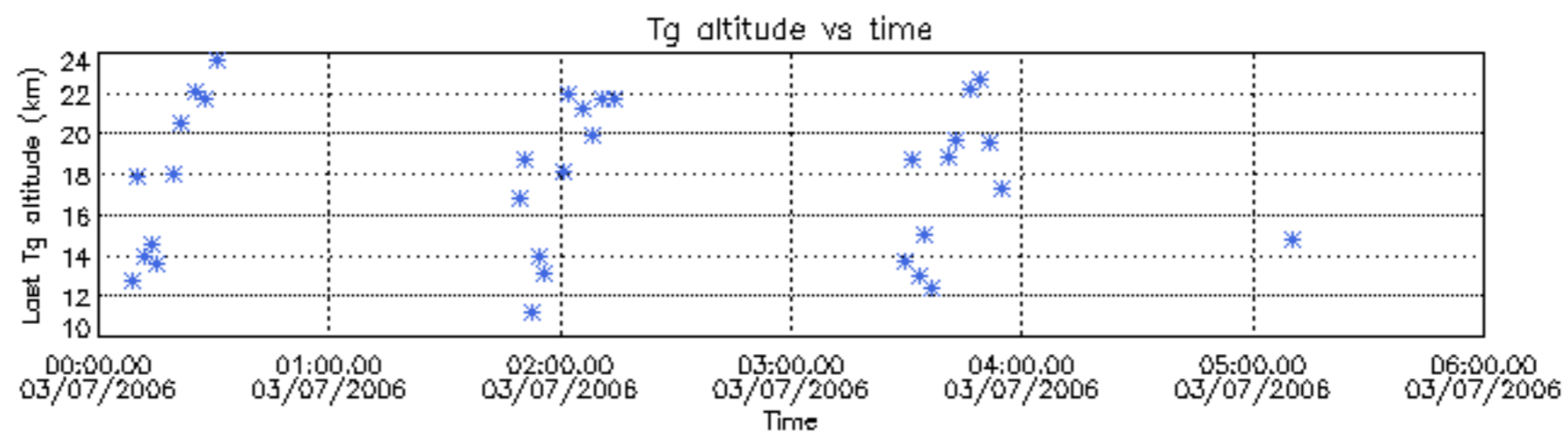
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

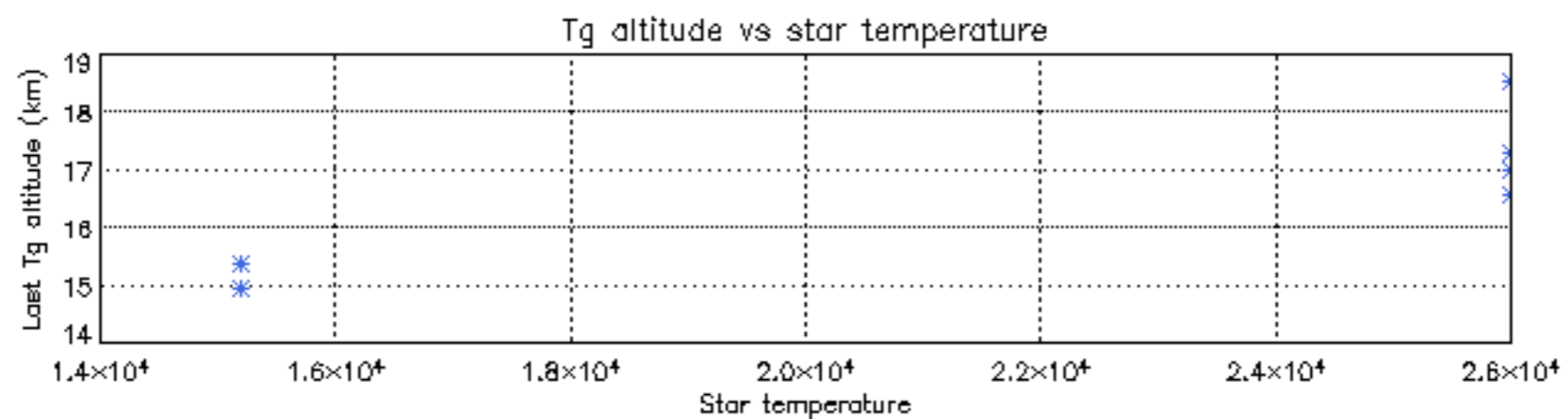
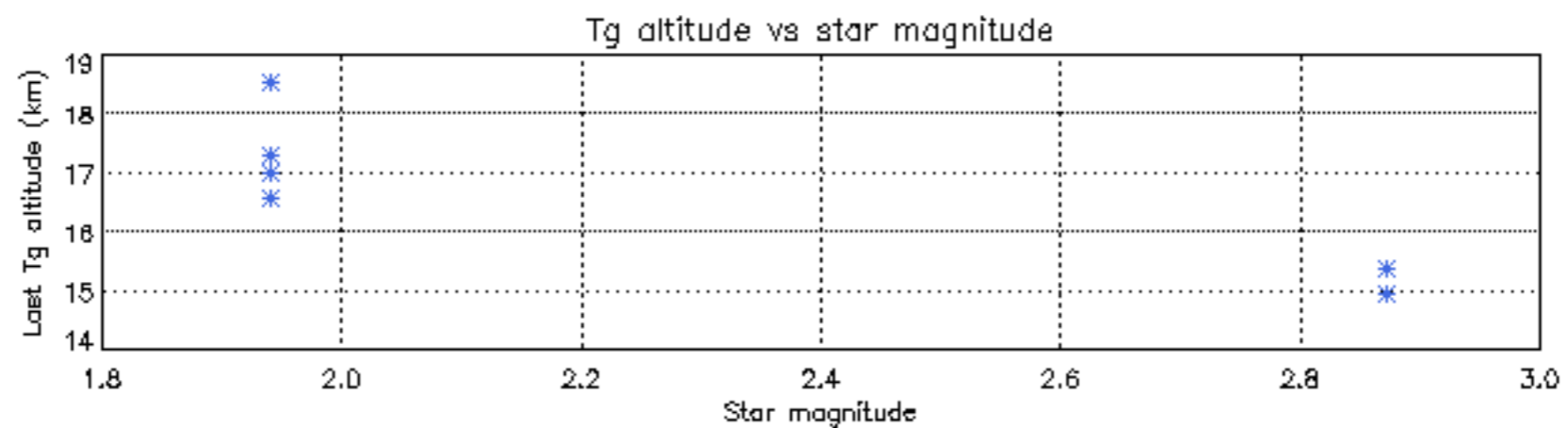
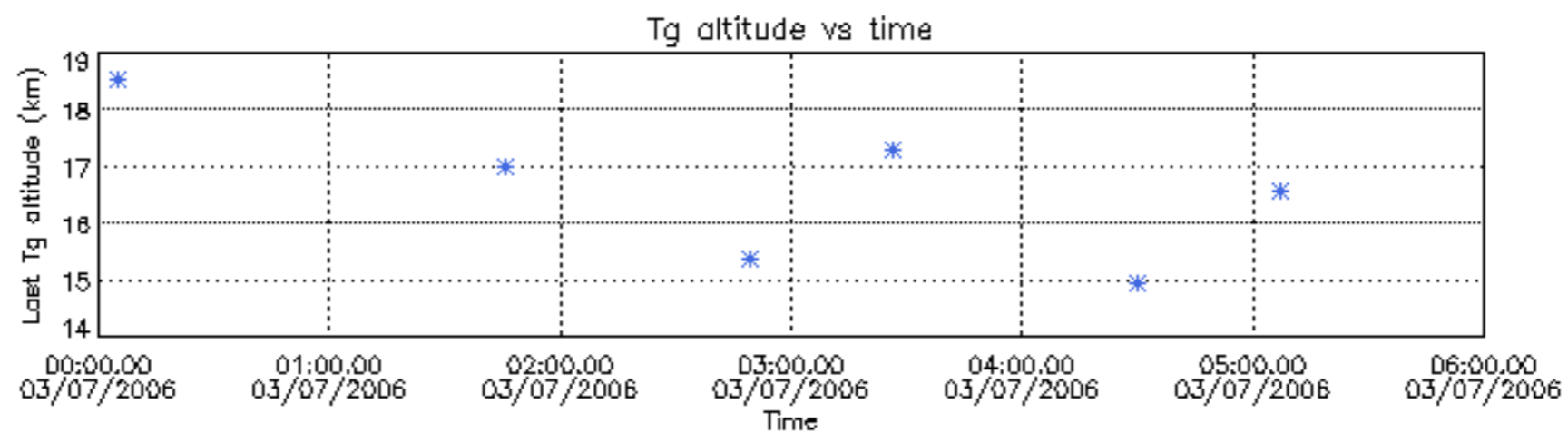


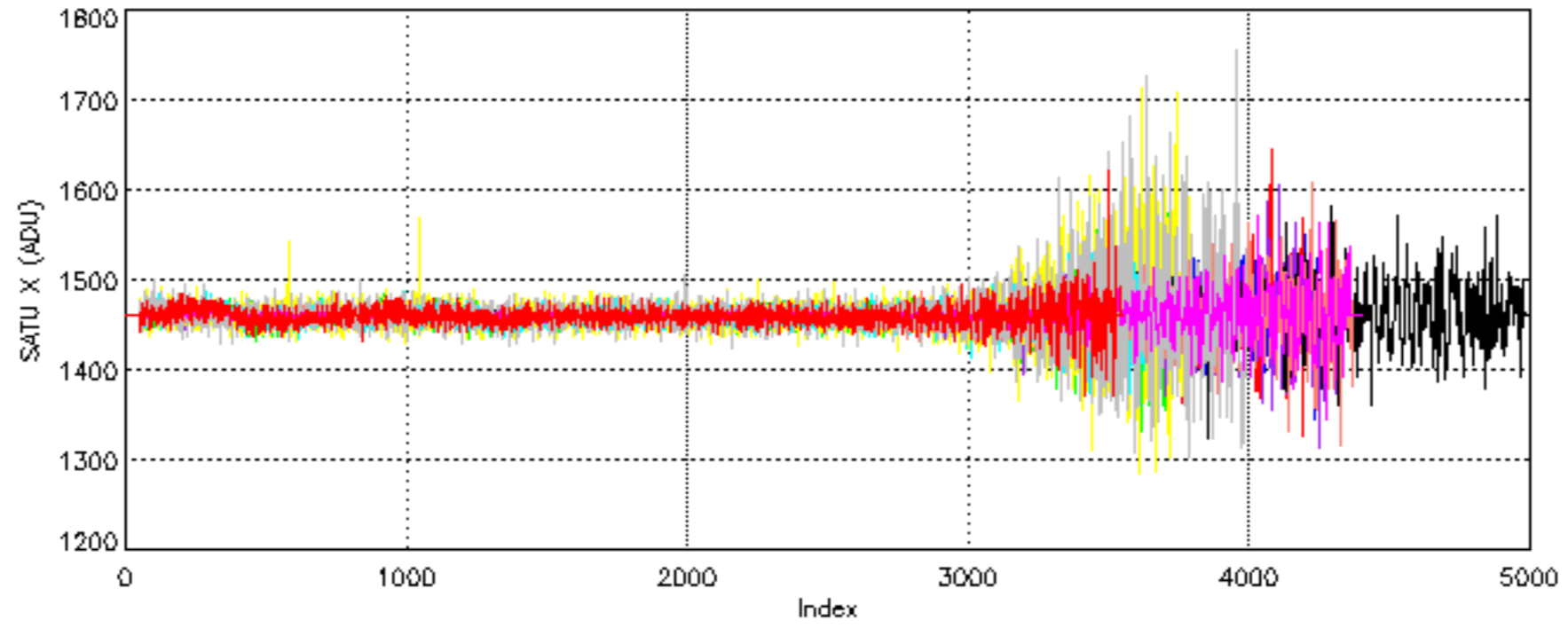
Tangent altitude at which the star is lost

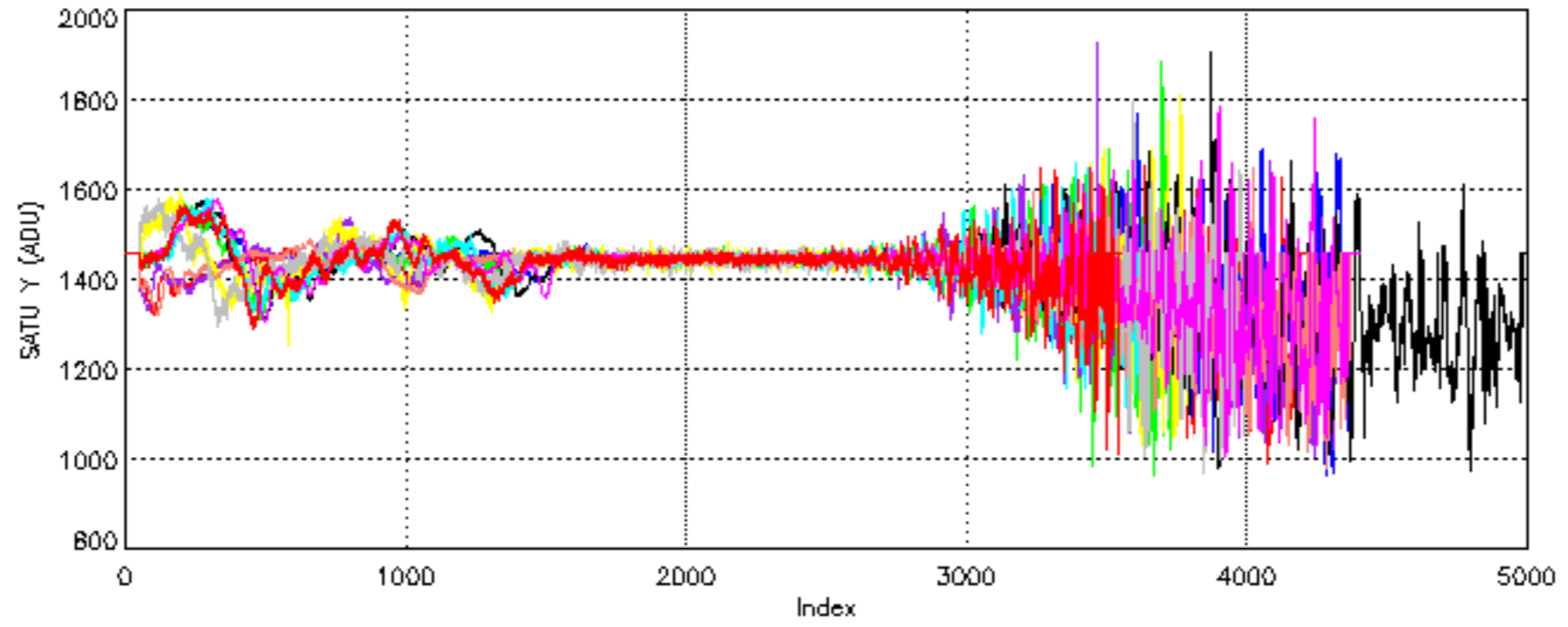


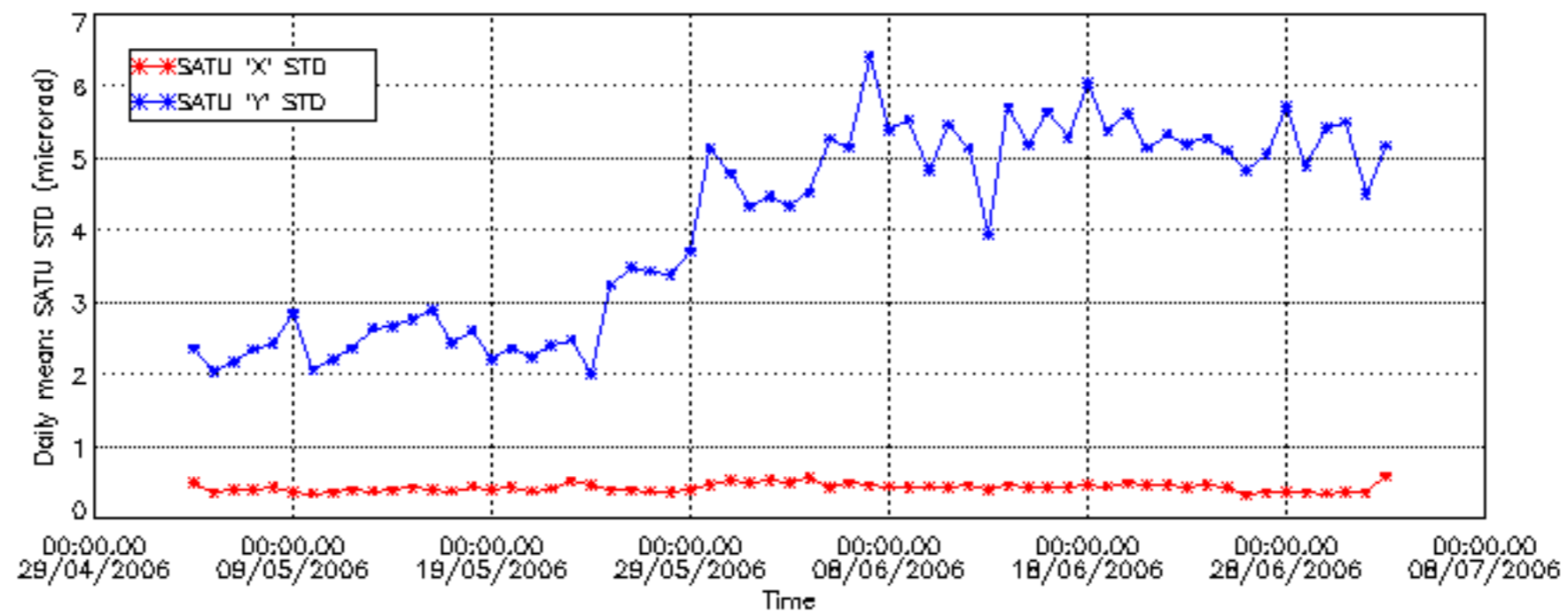


Tangent altitude at which the star is lost











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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  
 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  
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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  
 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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 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  
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 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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 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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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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