

GOMOS Daily Report 16-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	18JUL2006 04:31:47
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (16JUL2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (17JUL2006 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)

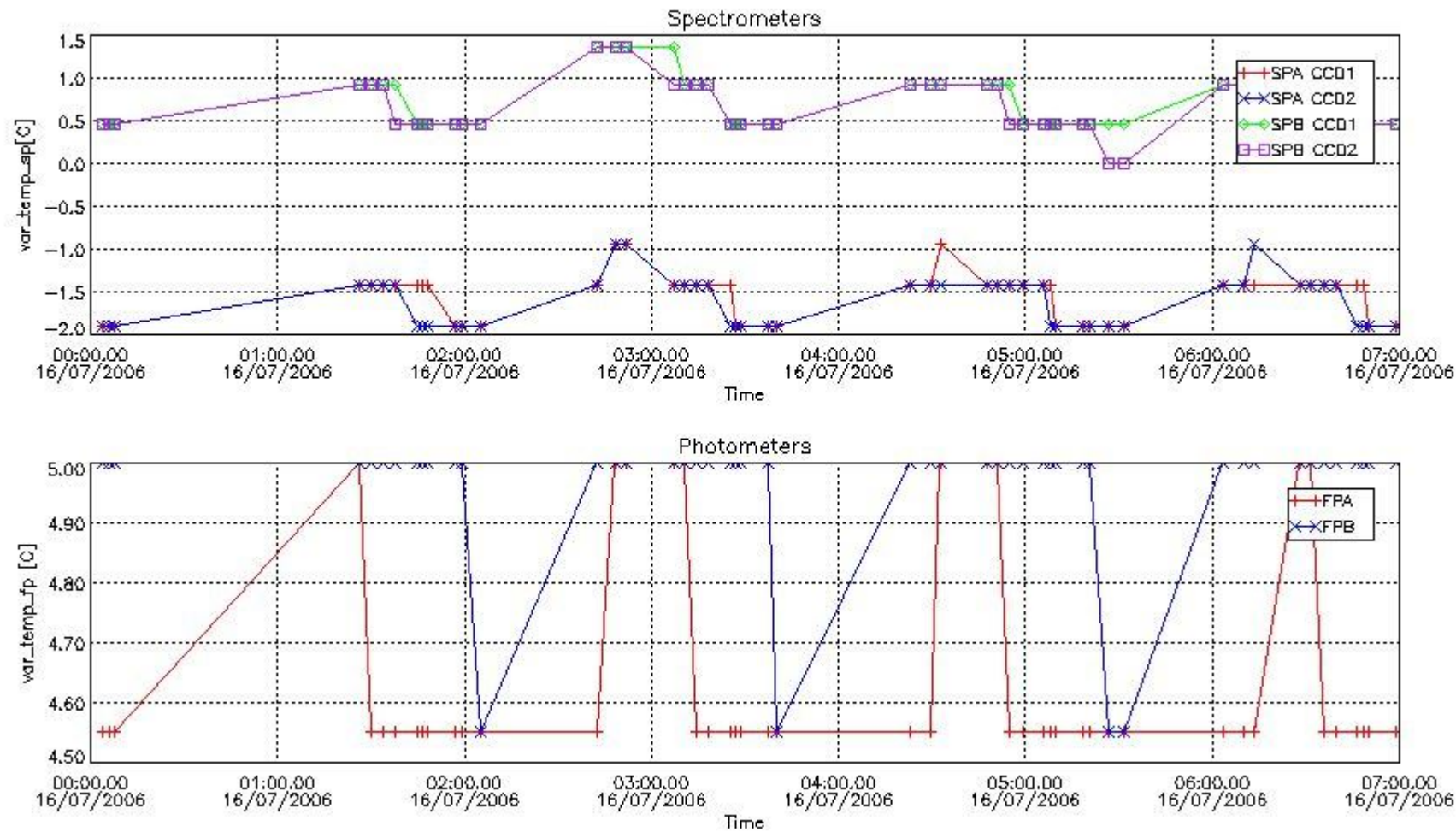
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20060716_000400_000000412049_00274_22873_0004.N1	16-JUL-2006 00:04:00	Bright	41.000	178	lot1Sco	3.0220	6550.0	82	22873	No
2	GOM_TRA_1PNPDE20060716_000558_000000422049_00274_22873_0005.N1	16-JUL-2006 00:05:58	Bright	42.000	103	38Zet Sgr	2.6000	9700.0	84	22873	No
3	GOM_TRA_1PNPDE20060716_000738_000000392049_00274_22873_0006.N1	16-JUL-2006 00:07:38	Bright	38.500	137	22Lam Sgr	2.8240	4400.0	77	22873	No
4	GOM_TRA_1PNPDE20060716_012620_000000472049_00275_22874_0000.N1	16-JUL-2006 01:26:20	Dark	46.500	9	Alp Eri	0.45300	24000.	93	22874	No
5	GOM_TRA_1PNPDE20060716_012953_000000372049_00275_22874_0001.N1	16-JUL-2006 01:29:53	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22874	No
6	GOM_TRA_1PNPDE20060716_013351_000000422049_00275_22874_0002.N1	16-JUL-2006 01:33:51	Dark	41.500	148	Alp Tuc	2.8780	4100.0	83	22874	No
7	GOM_TRA_1PNPDE20060716_013743_000000432049_00275_22874_0003.N1	16-JUL-2006 01:37:43	Twilight	42.500	45	Alp Pav	1.9400	26000.	85	22874	No
8	GOM_TRA_1PNPDE20060716_014436_000000382049_00275_22874_0004.N1	16-JUL-2006 01:44:36	Bright	37.500	178	lot1Sco	3.0220	6550.0	75	22874	No
9	GOM_TRA_1PNPDE20060716_014634_000000412049_00275_22874_0005.N1	16-JUL-2006 01:46:34	Bright	40.500	103	38Zet Sgr	2.6000	9700.0	81	22874	No
10	GOM_TRA_1PNPDE20060716_014814_000000382049_00275_22874_0006.N1	16-JUL-2006 01:48:14	Bright	37.500	137	22Lam Sgr	2.8240	4400.0	75	22874	No
11	GOM_TRA_1PNPDE20060716_015701_000000362049_00275_22874_0007.N1	16-JUL-2006 01:57:01	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	22874	No
12	GOM_TRA_1PNPDE20060716_015918_000000372049_00275_22874_0008.N1	16-JUL-2006 01:59:18	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	22874	No
13	GOM_TRA_1PNPDE20060716_020512_000000372049_00275_22874_0009.N1	16-JUL-2006 02:05:12	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	22874	No
14	GOM_TRA_1PNPDE20060716_024224_000000542049_00275_22874_0000.N1	16-JUL-2006 02:42:24	Twilight	54.000	13	87Alp Tau	0.86700	3800.0	108	22874	No
15	GOM_TRA_1PNPDE20060716_024844_000000392049_00275_22874_0001.N1	16-JUL-2006 02:48:44	Dark	38.500	7	19Bet Ori	0.10000	14000.	77	22874	No
16	GOM_TRA_1PNPDE20060716_025202_000000372049_00275_22874_0002.N1	16-JUL-2006 02:52:02	Dark	37.000	139	9Bet Lep	2.8330	5600.0	74	22874	No
17	GOM_TRA_1PNPDE20060716_030657_000000532049_00276_22875_0003.N1	16-JUL-2006 03:06:57	Dark	52.500	9	Alp Eri	0.45300	24000.	105	22875	No
18	GOM_TRA_1PNPDE20060716_031029_000000362049_00276_22875_0004.N1	16-JUL-2006 03:10:29	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	22875	No
19	GOM_TRA_1PNPDE20060716_031428_000000432049_00276_22875_0005.N1	16-JUL-2006 03:14:28	Dark	43.000	148	Alp Tuc	2.8780	4100.0	86	22875	No
20	GOM_TRA_1PNPDE20060716_031820_000000402049_00276_22875_0006.N1	16-JUL-2006 03:18:20	Twilight	40.000	45	Alp Pav	1.9400	26000.	80	22875	No
21	GOM_TRA_1PNPDE20060716_032512_000000392049_00276_22875_0007.N1	16-JUL-2006 03:25:12	Bright	39.000	178	lot1Sco	3.0220	6550.0	78	22875	No
22	GOM_TRA_1PNPDE20060716_032710_000000422049_00276_22875_0008.N1	16-JUL-2006 03:27:10	Bright	41.500	103	38Zet Sgr	2.6000	9700.0	83	22875	No
23	GOM_TRA_1PNPDE20060716_032850_000000382049_00276_22875_0009.N1	16-JUL-2006 03:28:50	Bright	38.000	137	22Lam Sgr	2.8240	4400.0	76	22875	No
24	GOM_TRA_1PNPDE20060716_033737_000000362049_00276_22875_0010.N1	16-JUL-2006 03:37:37	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	22875	No
25	GOM_TRA_1PNPDE20060716_033954_000000352049_00276_22875_0011.N1	16-JUL-2006 03:39:54	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	22875	No
26	GOM_TRA_1PNPDE20060716_042301_000000502049_00276_22875_0000.N1	16-JUL-2006 04:23:01	Twilight	50.000	13	87Alp Tau	0.86700	3800.0	100	22875	No
27	GOM_TRA_1PNPDE20060716_042920_000000382049_00276_22875_0001.N1	16-JUL-2006 04:29:20	Dark	38.000	7	19Bet Ori	0.10000	14000.	76	22875	No
28	GOM_TRA_1PNPDE20060716_043238_000000402049_00276_22875_0002.N1	16-JUL-2006 04:32:38	Dark	39.500	139	9Bet Lep	2.8330	5600.0	79	22875	No
29	GOM_TRA_1PNPDE20060716_044734_000000532049_00277_22876_0003.N1	16-JUL-2006 04:47:34	Dark	52.500	9	Alp Eri	0.45300	24000.	105	22876	No
30	GOM_TRA_1PNPDE20060716_045105_000000372049_00277_22876_0004.N1	16-JUL-2006 04:51:05	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22876	No
31	GOM_TRA_1PNPDE20060716_045504_000000402049_00277_22876_0005.N1	16-JUL-2006 04:55:04	Dark	40.000	148	Alp Tuc	2.8780	4100.0	80	22876	No
32	GOM_TRA_1PNPDE20060716_045856_000000402049_00277_22876_0006.N1	16-JUL-2006 04:58:56	Twilight	39.500	45	Alp Pav	1.9400	26000.	79	22876	No
33	GOM_TRA_1PNPDE20060716_050548_000000392049_00277_22876_0007.N1	16-JUL-2006 05:05:48	Bright	38.500	178	lot1Sco	3.0220	6550.0	77	22876	No
34	GOM_TRA_1PNPDE20060716_050747_000000412049_00277_22876_0008.N1	16-JUL-2006 05:07:47	Bright	41.000	103	38Zet Sgr	2.6000	9700.0	82	22876	No
35	GOM_TRA_1PNPDE20060716_050927_000000382049_00277_22876_0009.N1	16-JUL-2006 05:09:27	Bright	38.000	137	22Lam Sgr	2.8240	4400.0	76	22876	No
36	GOM_TRA_1PNPDE20060716_051813_000000352049_00277_22876_0010.N1	16-JUL-2006 05:18:13	Bright	34.500	126	60Bet Oph	2.7700	4250.0	69	22876	No
37	GOM_TRA_1PNPDE20060716_052030_000000352049_00277_22876_0011.N1	16-JUL-2006 05:20:30	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	22876	No
38	GOM_TRA_1PNPDE20060716_052624_000000352049_00277_22876_0012.N1	16-JUL-2006 05:26:24	Bright	34.500	133	40Zet Her	2.8070	6000.0	69	22876	No
39	GOM_TRA_1PNPDE20060716_053121_000000382049_00277_22876_0013.N1	16-JUL-2006 05:31:21	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	22876	No
40	GOM_TRA_1PNPDE20060716_060337_000000492049_00277_22876_0000.N1	16-JUL-2006 06:03:37	Twilight	49.000	13	87Alp Tau	0.86700	3800.0	98	22876	No
41	GOM_TRA_1PNPDE20060716_060956_000000372049_00277_22876_0001.N1	16-JUL-2006 06:09:56	Dark	36.500	7	19Bet Ori	0.10000	14000.	73	22876	No
42	GOM_TRA_1PNPDE20060716_061314_000000412049_00277_22876_0002.N1	16-JUL-2006 06:13:14	Dark	40.500	139	9Bet Lep	2.8330	5600.0	81	22876	No

43	GOM_TRA_1PNPDE20060716_062810_000000422049_00278_22877_0003.N1	16-JUL-2006 06:28:10	Dark	42.000	9	Alp Eri	0.45300	24000.	84	22877	No
44	GOM_TRA_1PNPDE20060716_063141_000000372049_00278_22877_0004.N1	16-JUL-2006 06:31:41	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	22877	No
45	GOM_TRA_1PNPDE20060716_063541_000000412049_00278_22877_0005.N1	16-JUL-2006 06:35:41	Dark	41.000	148	Alp Tuc	2.8780	4100.0	82	22877	No
46	GOM_TRA_1PNPDE20060716_063933_000000392049_00278_22877_0006.N1	16-JUL-2006 06:39:33	Twilight	39.000	45	Alp Pav	1.9400	26000.	78	22877	No
47	GOM_TRA_1PNPDE20060716_064624_000000422049_00278_22877_0007.N1	16-JUL-2006 06:46:24	Bright	41.500	178	lot1Sco	3.0220	6550.0	83	22877	No
48	GOM_TRA_1PNPDE20060716_064823_000000462049_00278_22877_0008.N1	16-JUL-2006 06:48:23	Bright	45.500	103	38Zet Sgr	2.6000	9700.0	91	22877	No
49	GOM_TRA_1PNPDE20060716_065003_000000382049_00278_22877_0009.N1	16-JUL-2006 06:50:03	Bright	37.500	137	22Lam Sgr	2.8240	4400.0	75	22877	No
50	GOM_TRA_1PNPDE20060716_065849_000000352049_00278_22877_0010.N1	16-JUL-2006 06:58:49	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	22877	No

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



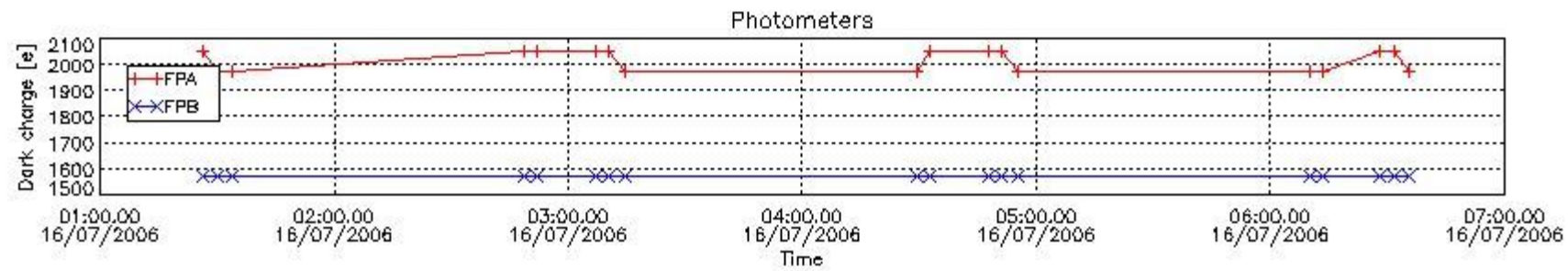
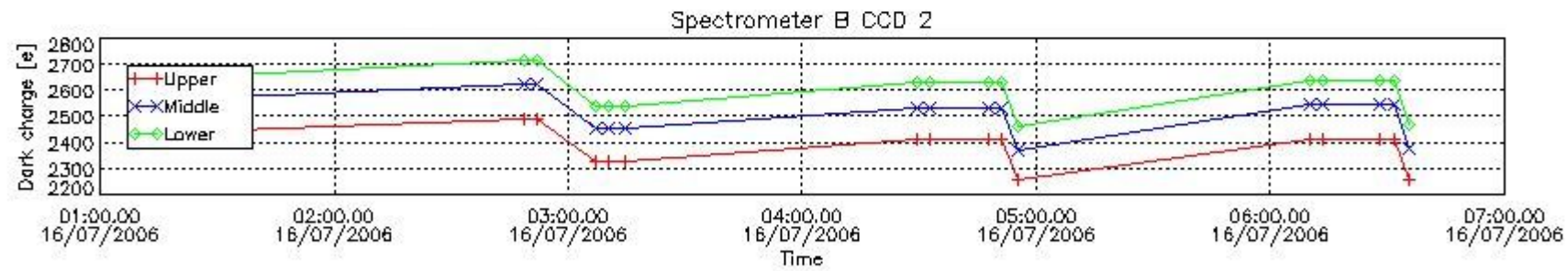
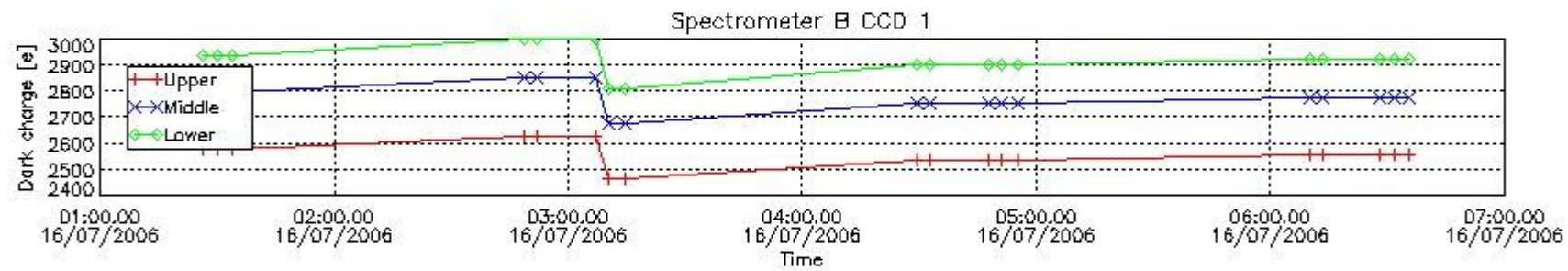
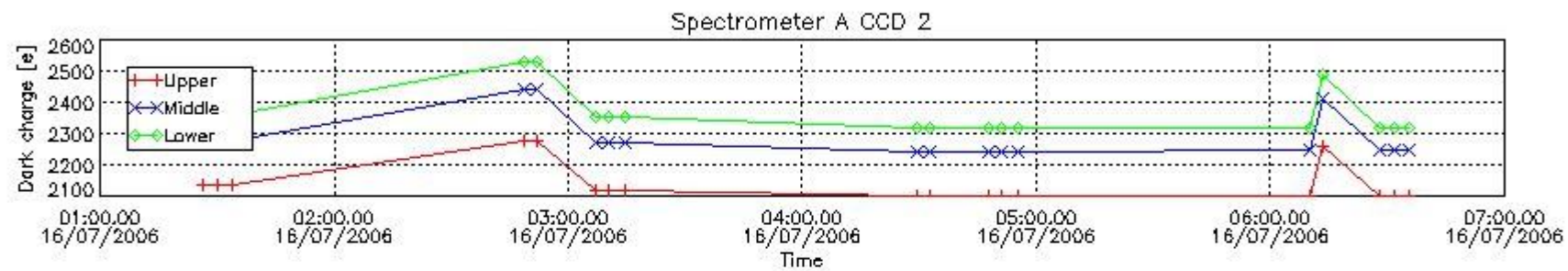
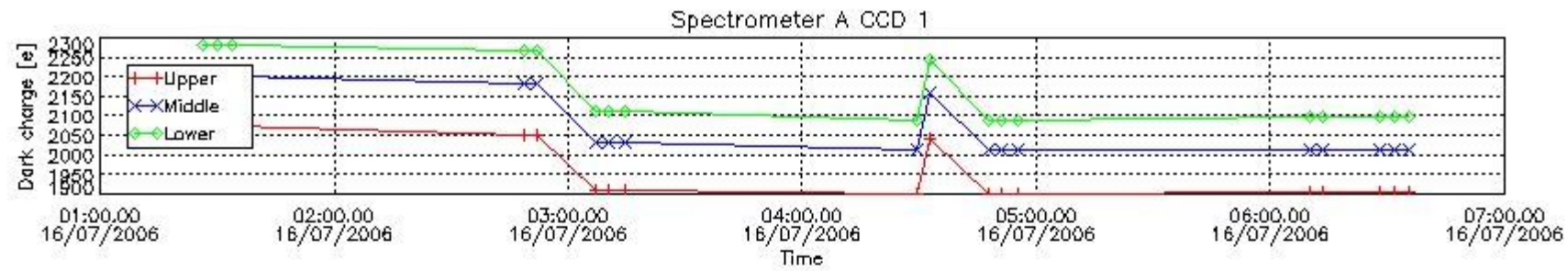
4. Overview of dark signal processing per product

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



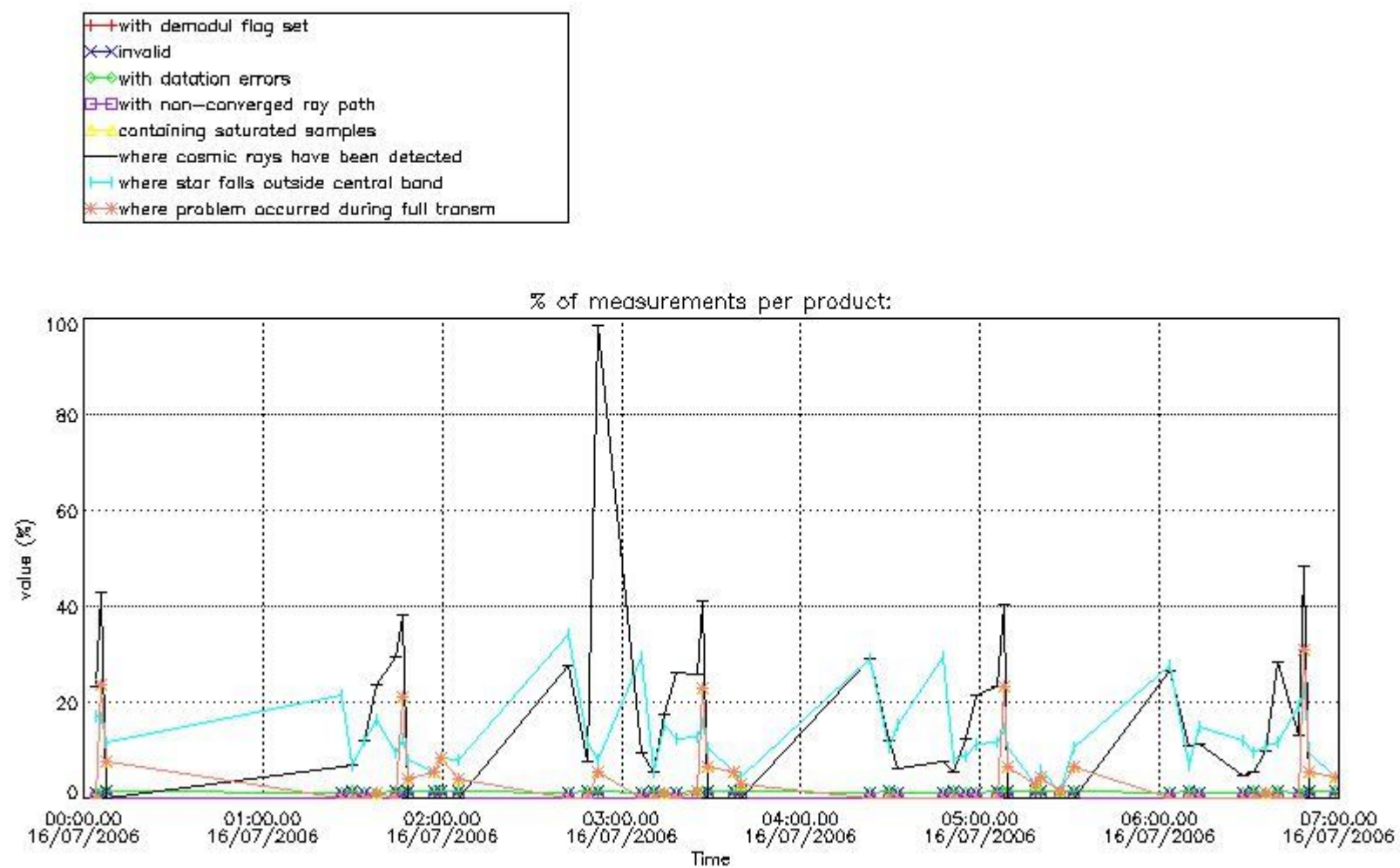
5. Demodulation flag and quality information monitoring

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.

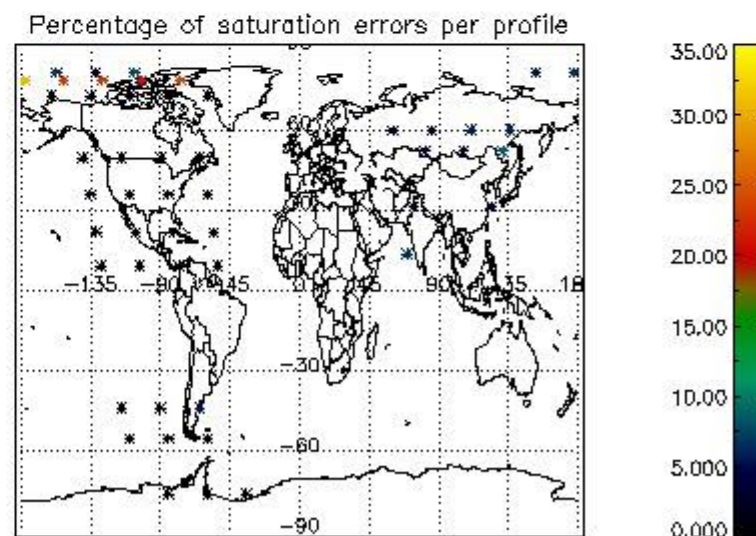
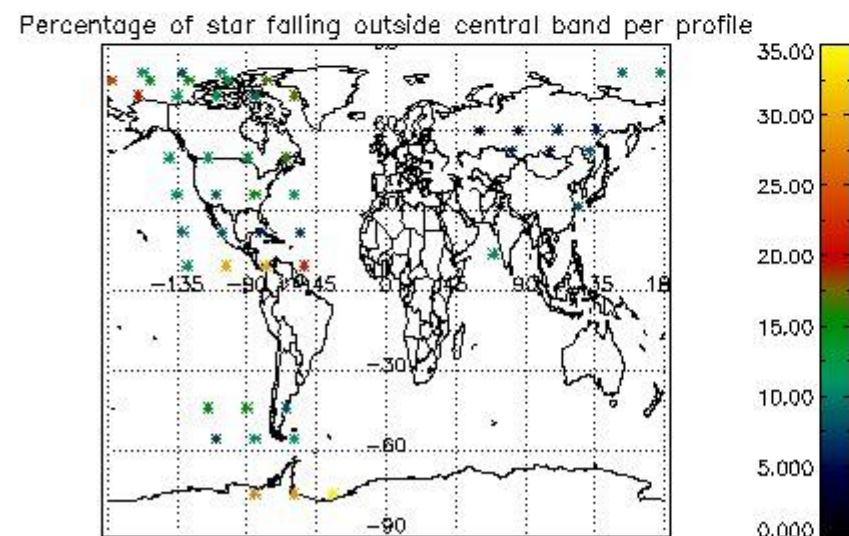
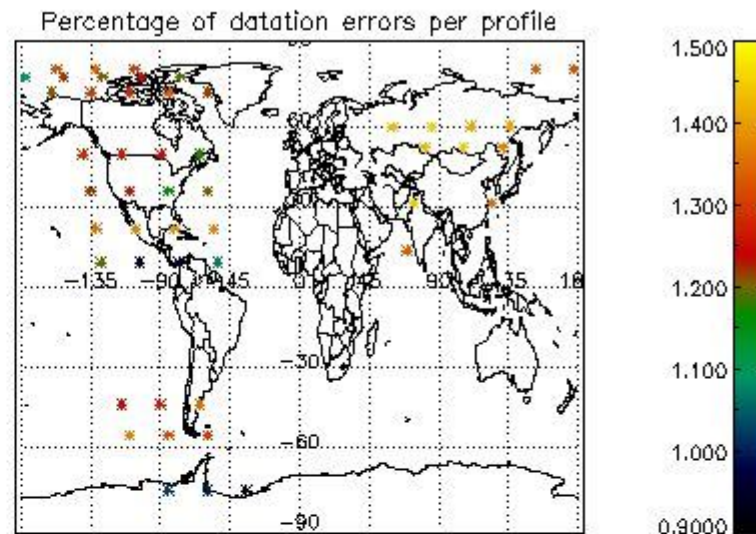
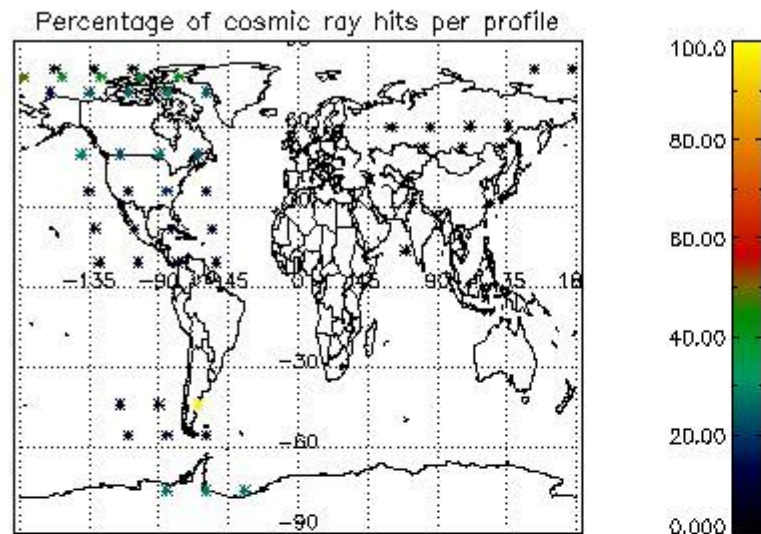
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.0000 %
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)



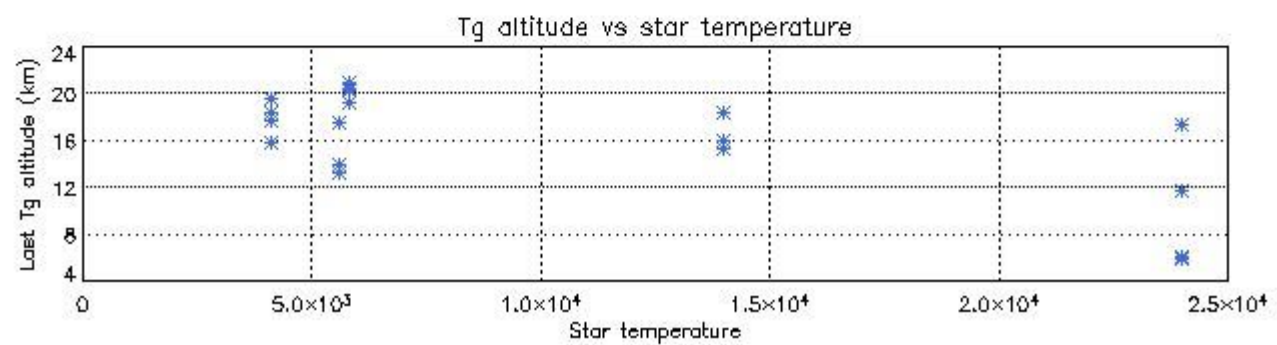
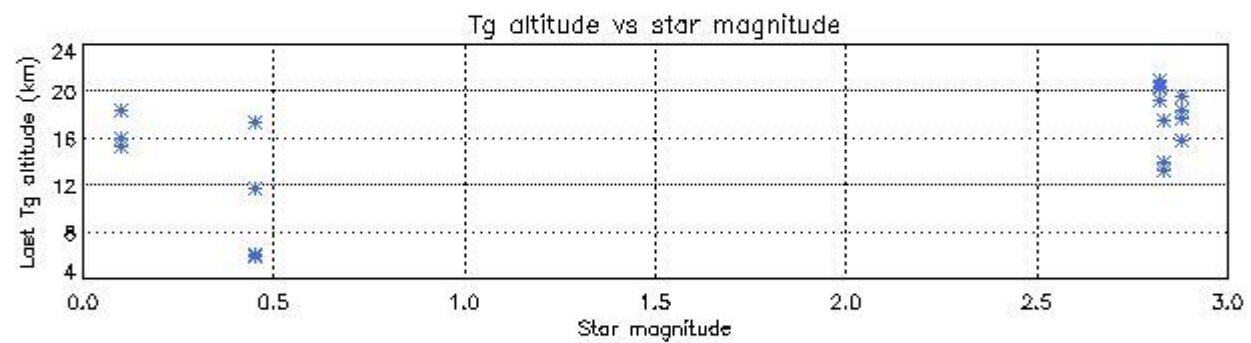
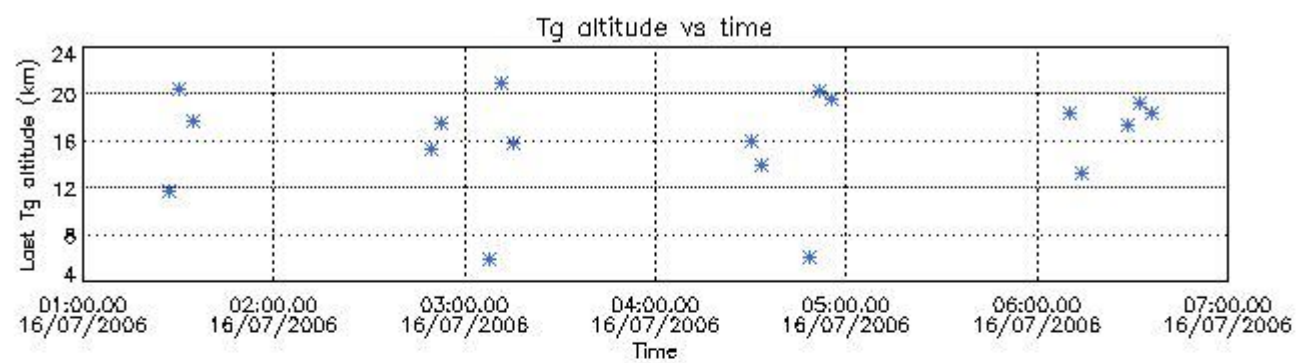
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.954	17.876	12.511
St. deviation:	4.4303	3.3473	5.7979
Maximum:	20.953	24.239	18.499
Minimum:	5.9442	11.139	4.8946
Number of data:	18.000	25.000	7.0000

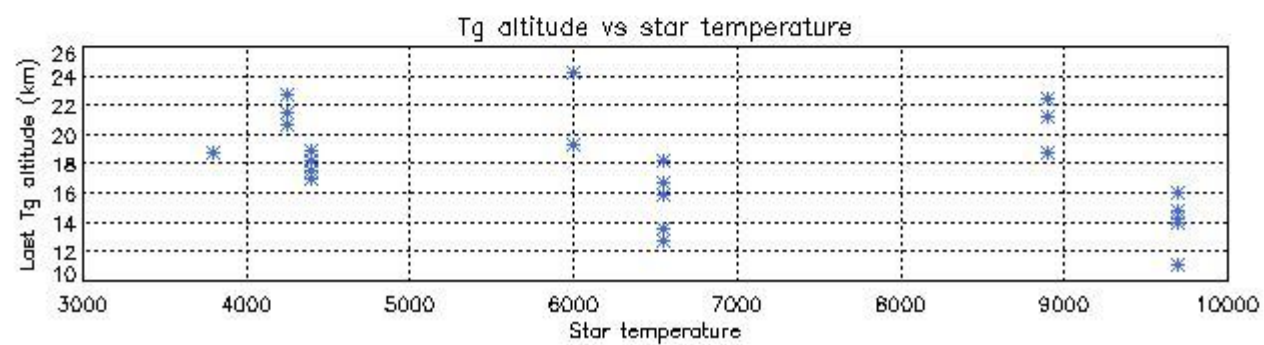
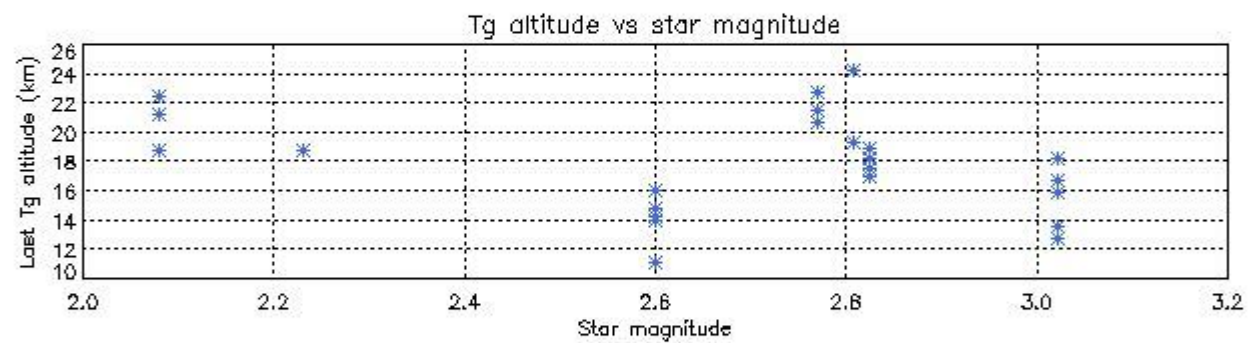
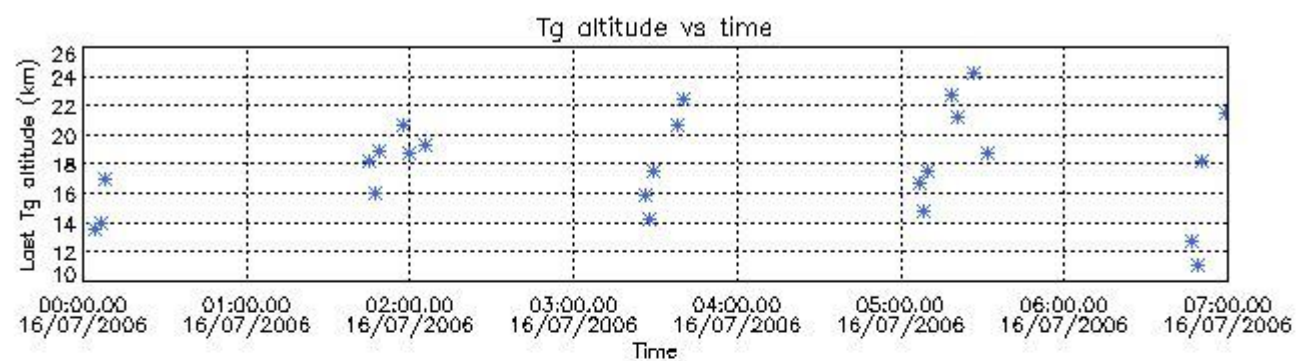
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



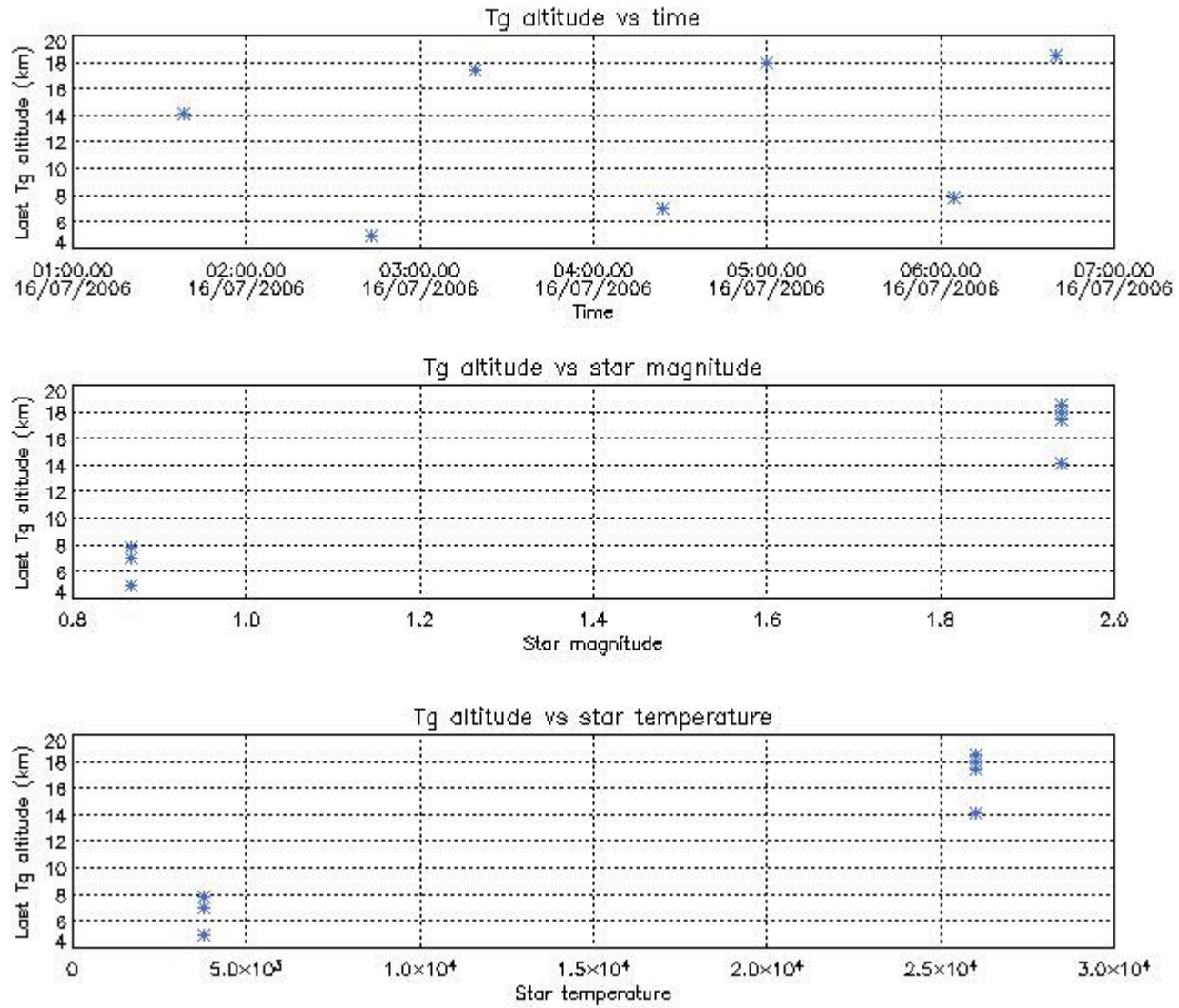
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

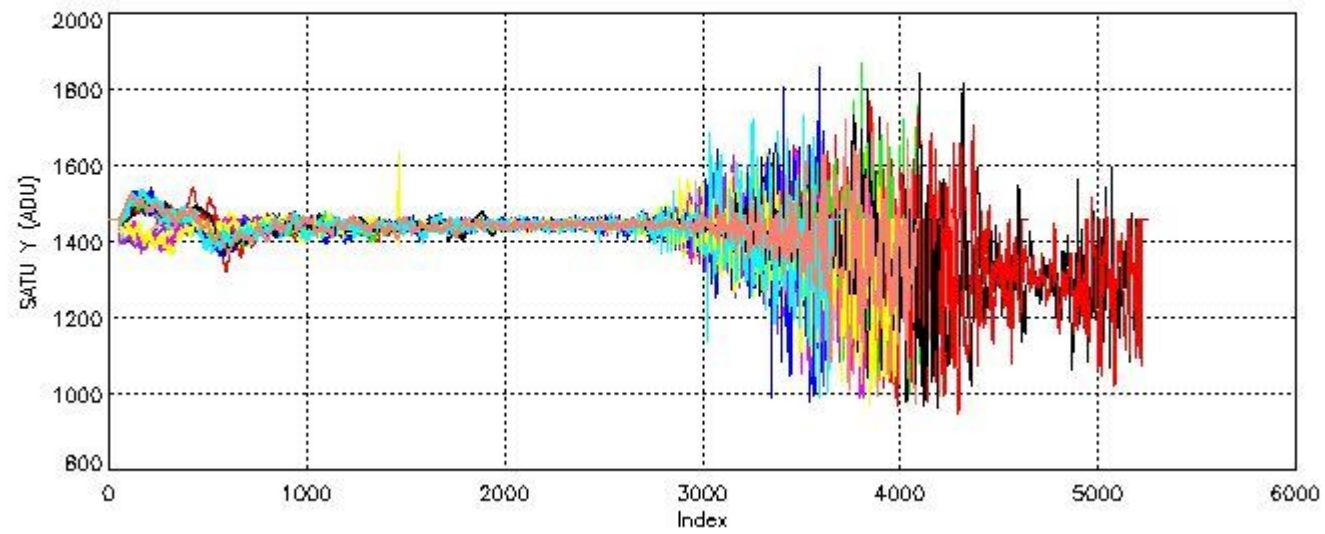
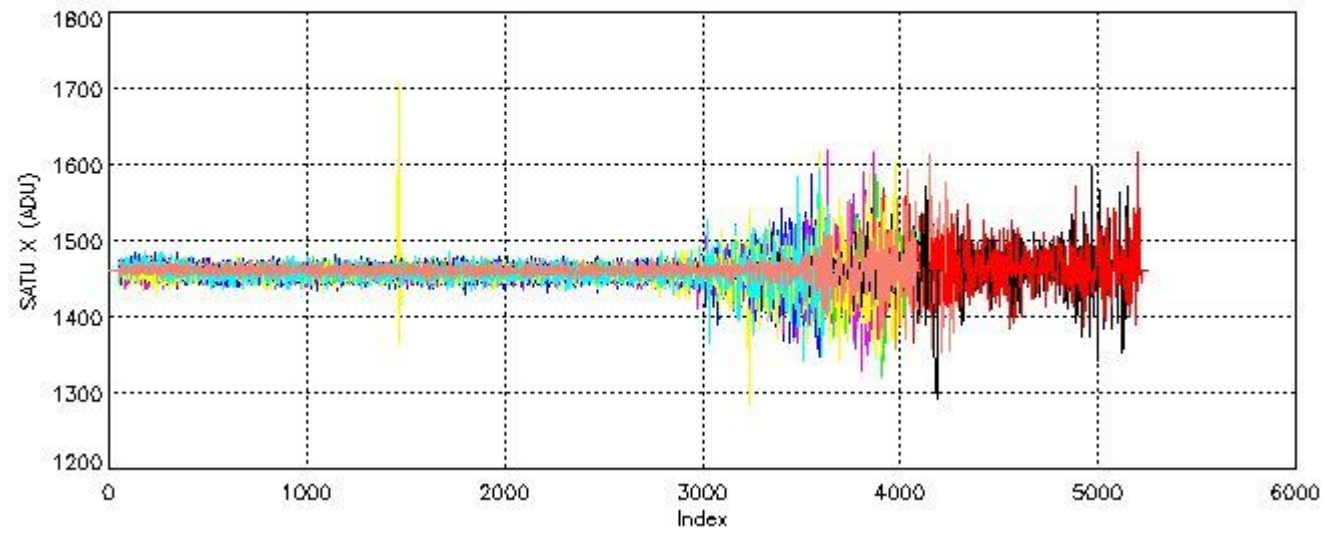


7. Star Acquisition and Tracking Unit (SATU)

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.

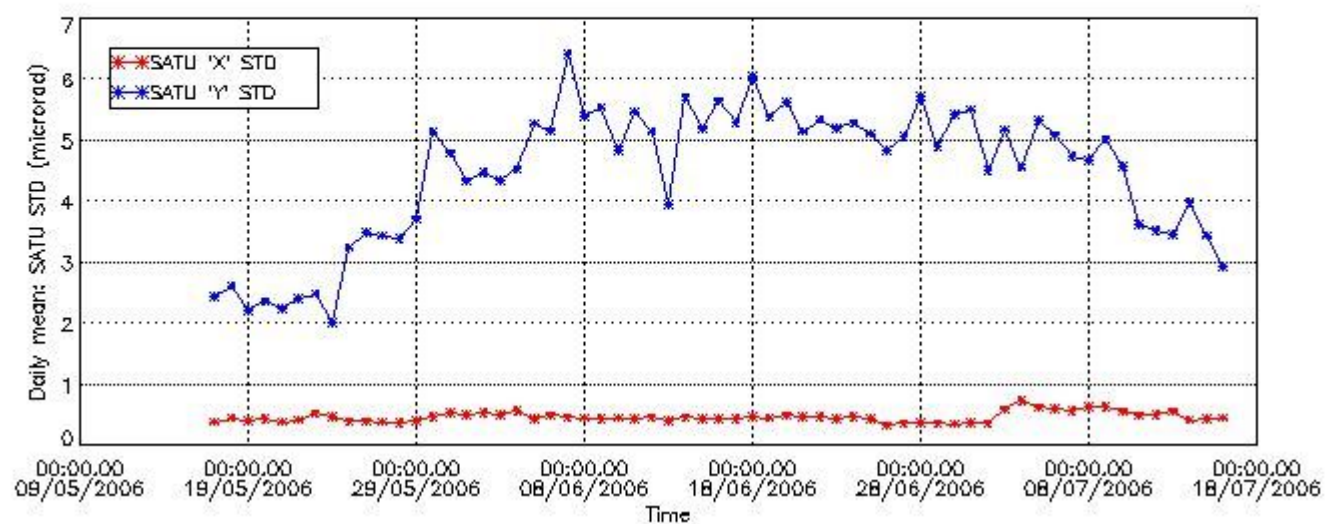
7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1459.7	1445.5	1460.0	1445.6
St. deviation:	4.4262	29.231	7.3205	30.552
Maximum:	1484.0	1542.0	1492.0	1545.0
Minimum:	1450.0	1367.0	1437.0	1358.0

Number of data:	16100.	16100.	21150.	21150.
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7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

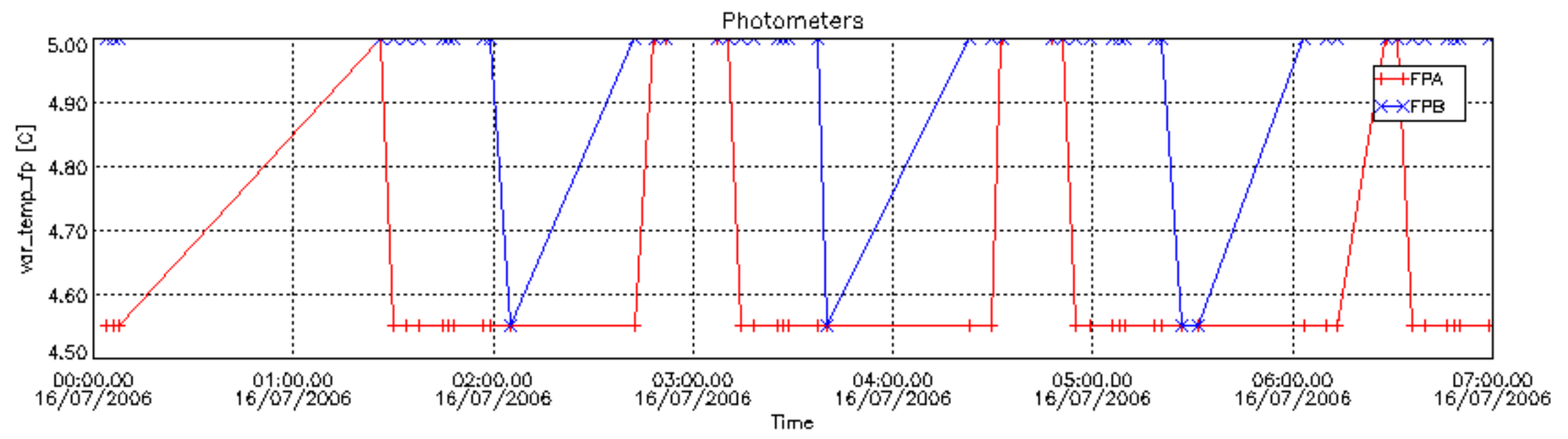
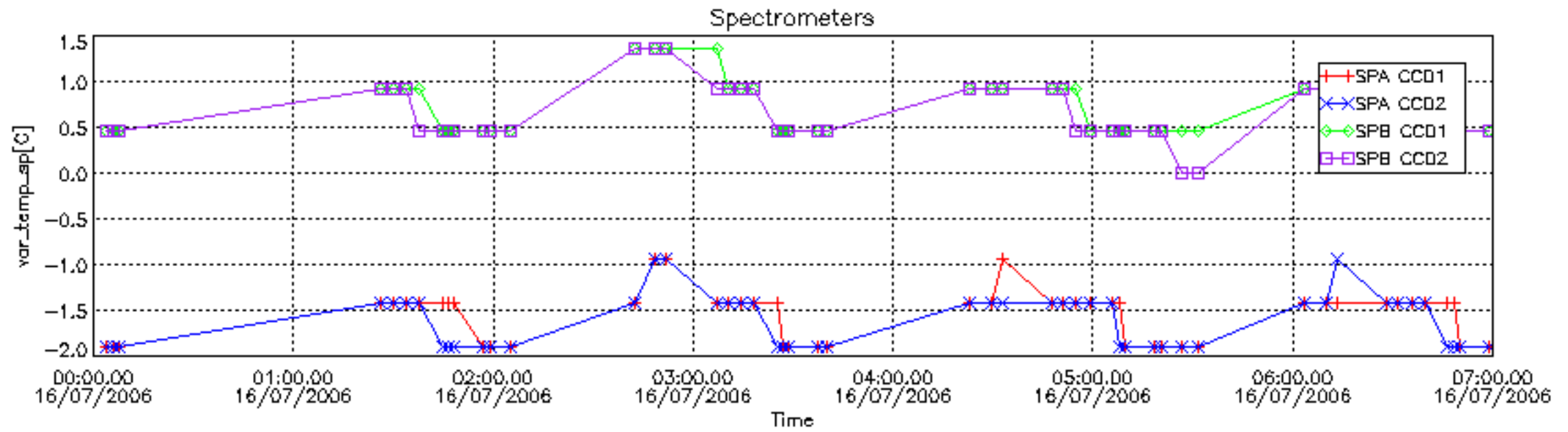
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

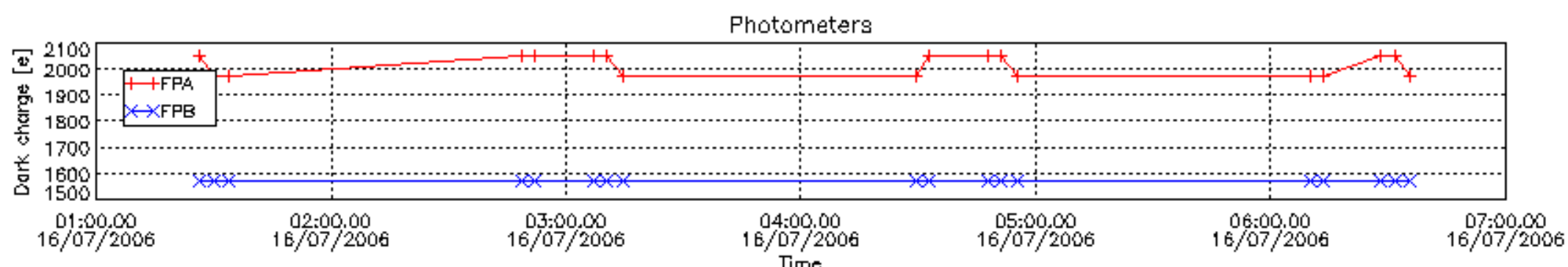
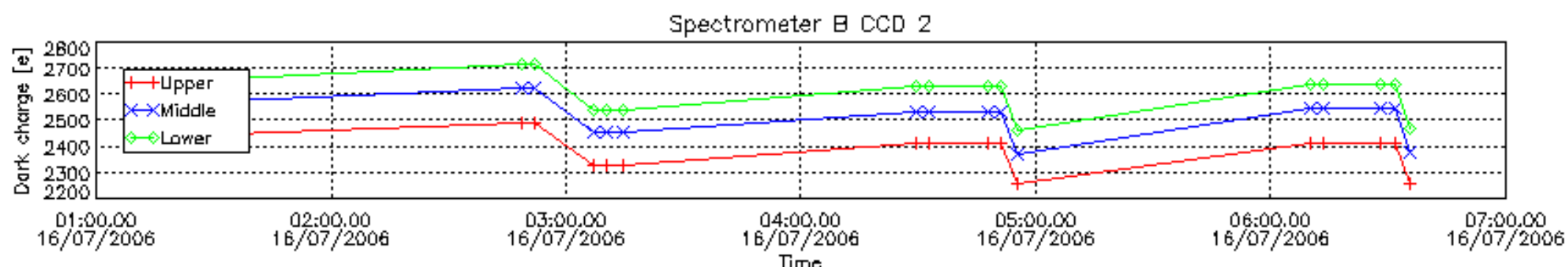
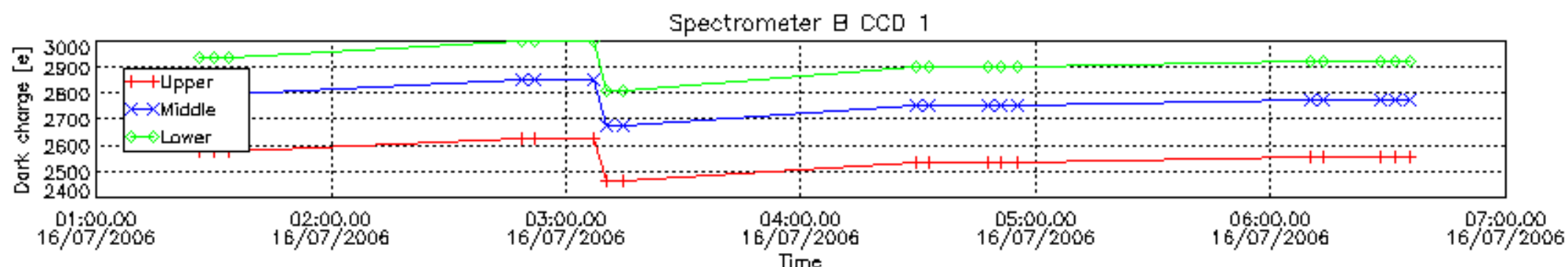
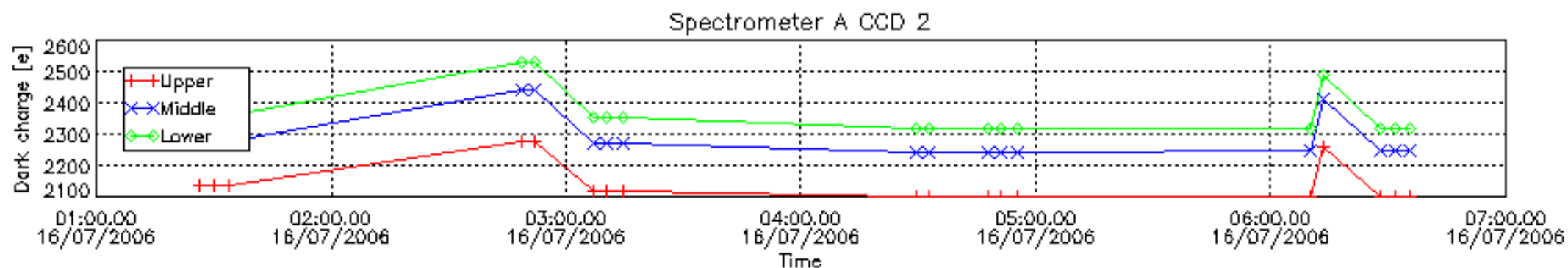
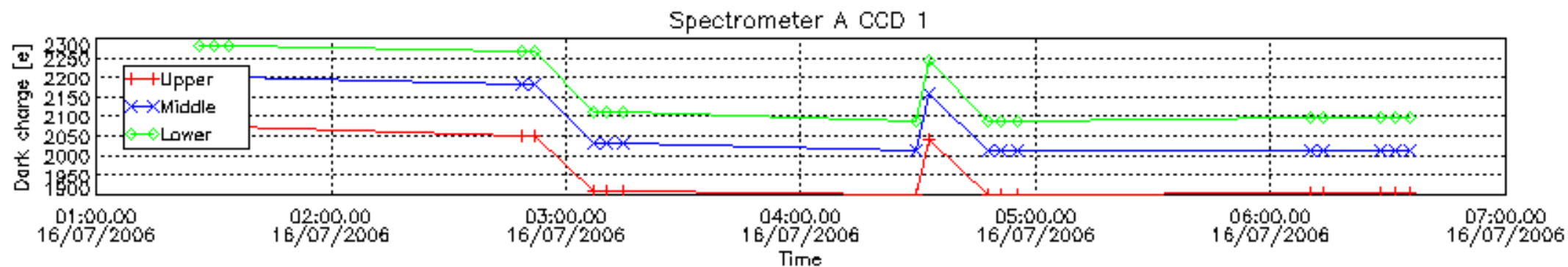


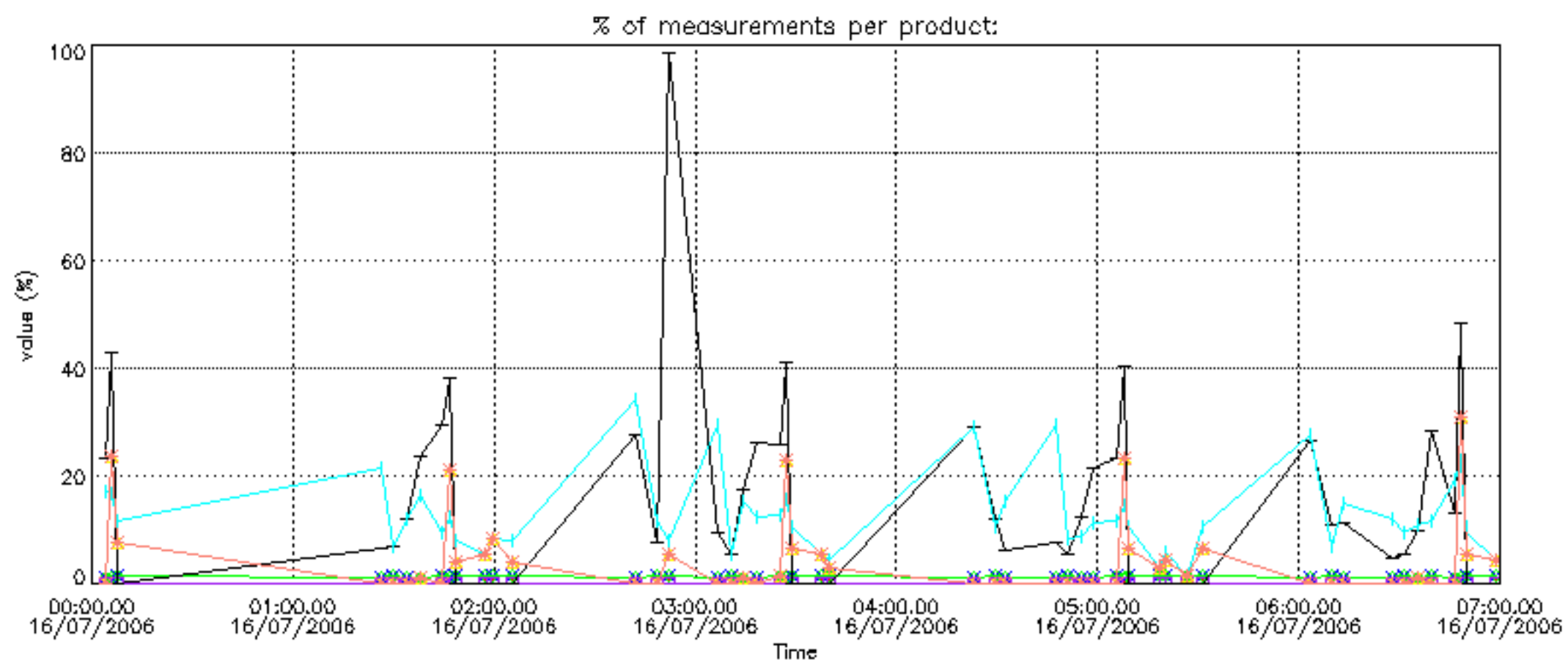
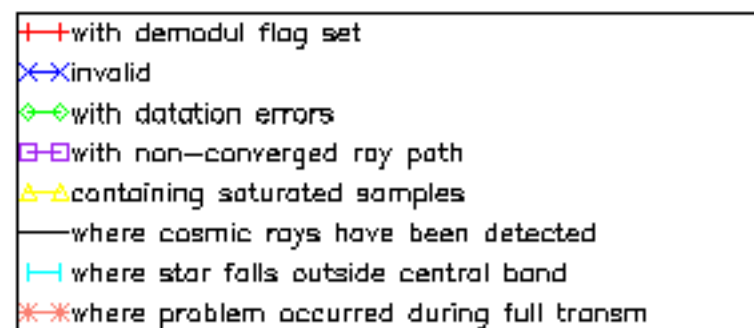
8. Auxiliary Data Files used for the production reported in section 2.2

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.

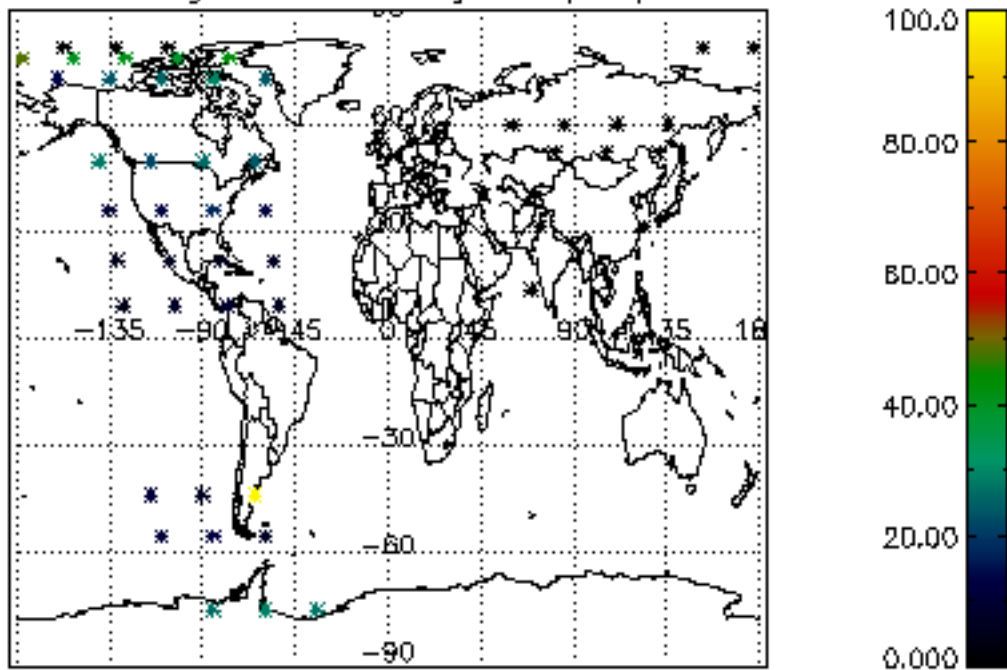
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	16-JUL-2006 00:04:00
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060712_153513_20060710_000000_20100101_000000	1	16-JUL-2006 00:04:00
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	16-JUL-2006 00:04:00
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-JUL-2006 00:04:00
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	16-JUL-2006 00:04:00
ECMWF_FILE	AUX_ECF_AXNECM20060715_063656_20060715_210000_20060716_090000	1	16-JUL-2006 00:04:00
ECMWF_FILE	AUX_ECF_AXNECM20060715_181643_20060716_030000_20060716_150000	26	16-JUL-2006 04:23:01
OPTIONAL_ECMWF_FILE	NOT USED	1	16-JUL-2006 00:04:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060715_203352_000041442049_00272_22871_0129.N1	1	16-JUL-2006 00:04:00
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20060716_002533_20060715_184122_20060725_200736	4	16-JUL-2006 01:26:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060716_021914_000057382049_00275_22874_0132.N1	14	16-JUL-2006 02:42:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060716_040011_000057382049_00276_22875_0134.N1	26	16-JUL-2006 04:23:01



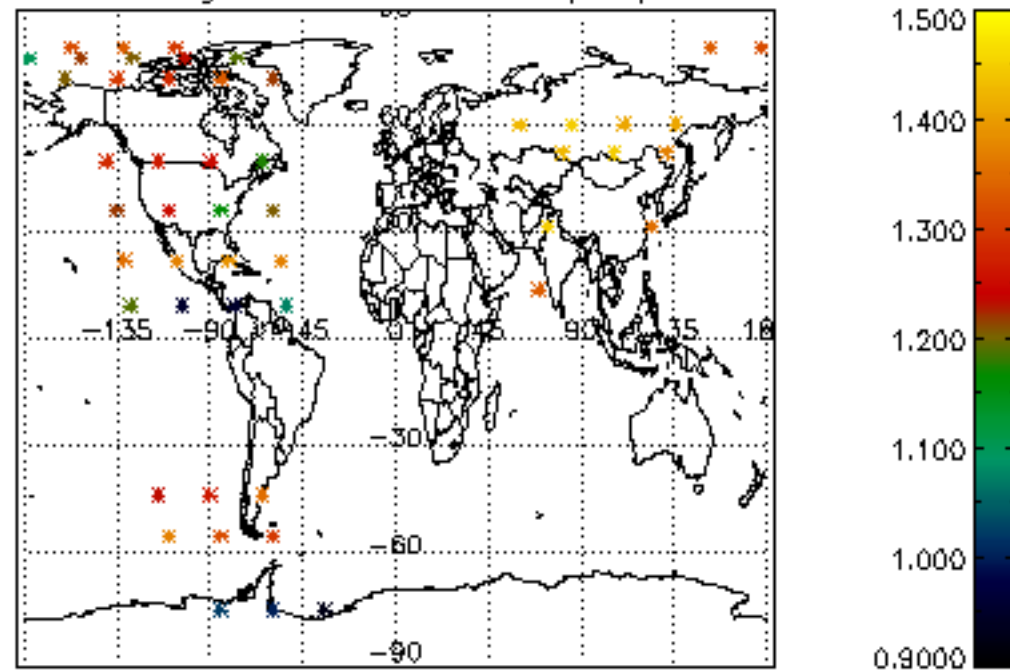




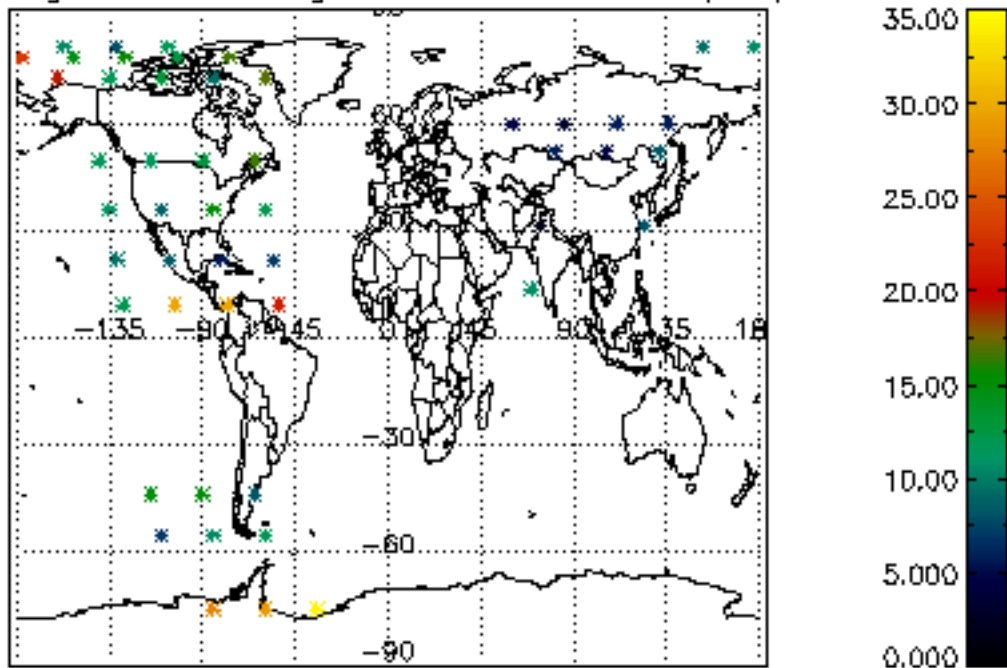
Percentage of cosmic ray hits per profile



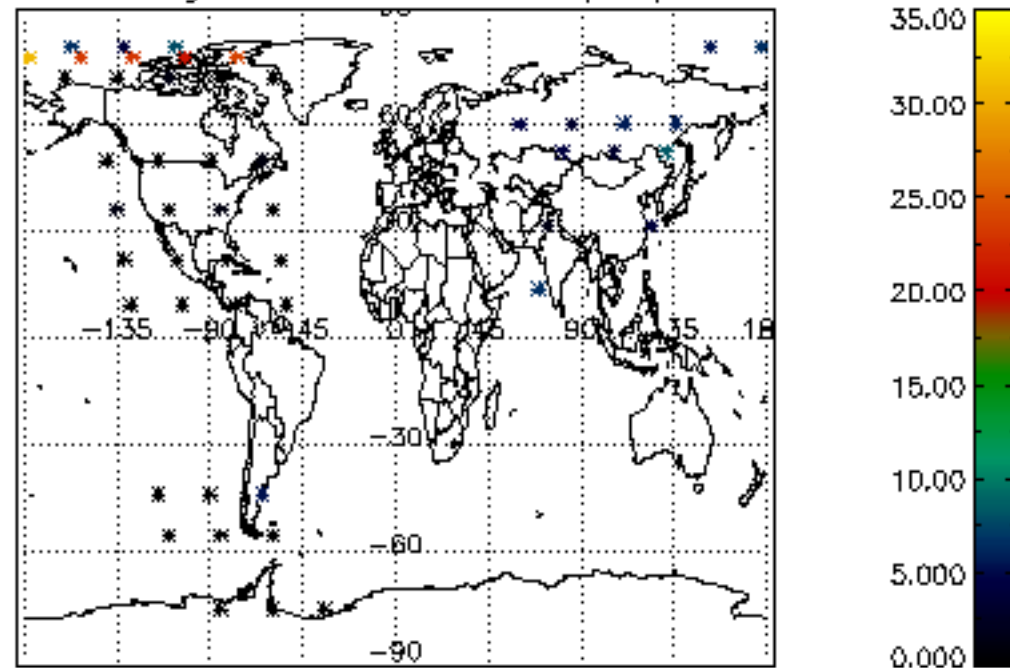
Percentage of datation errors per profile



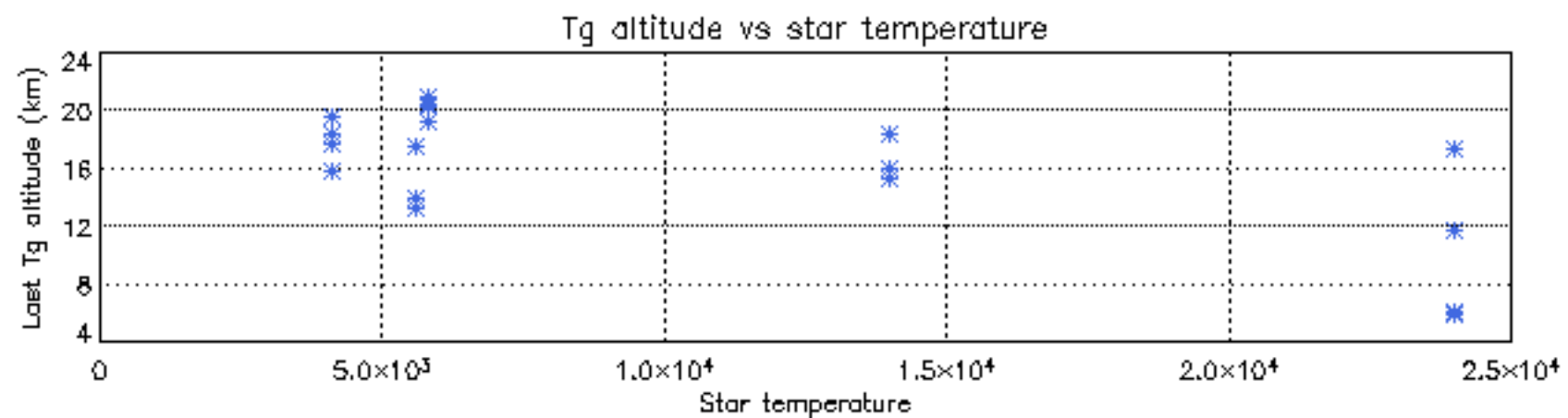
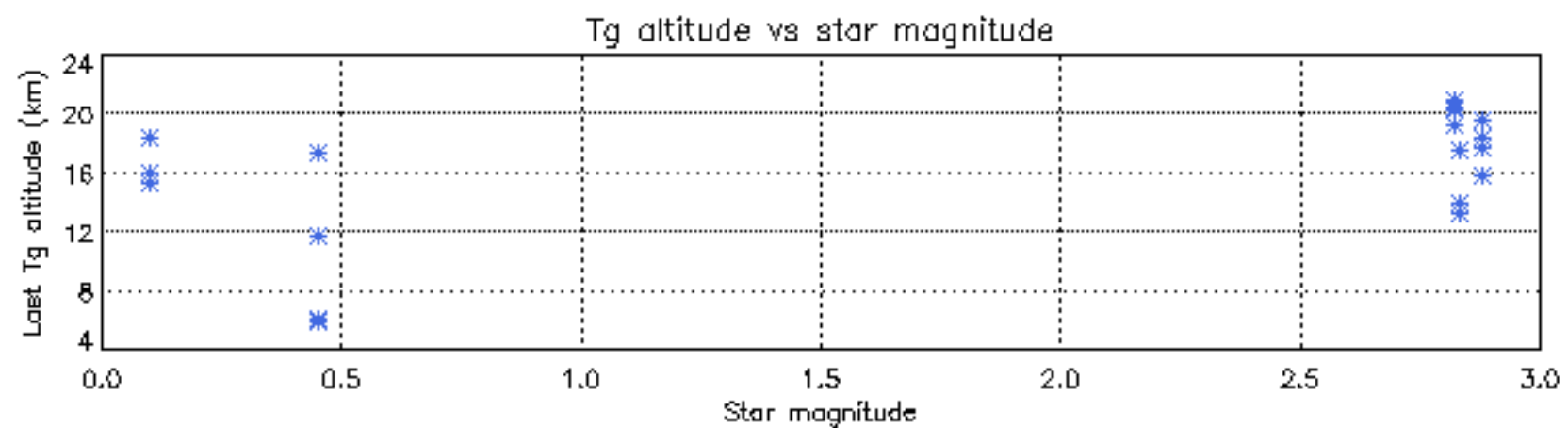
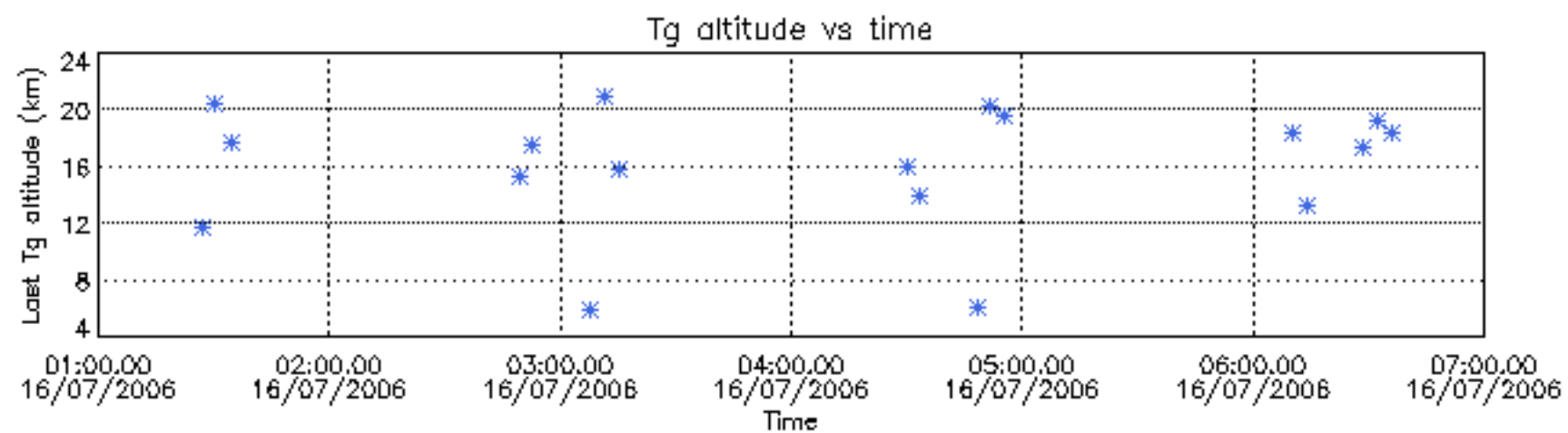
Percentage of star falling outside central band per profile



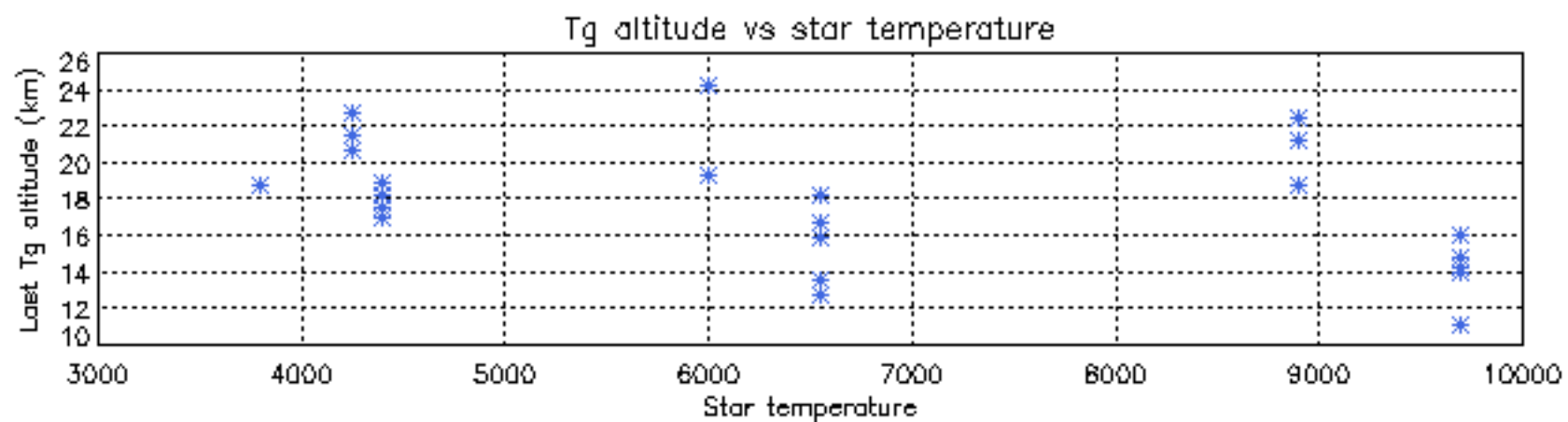
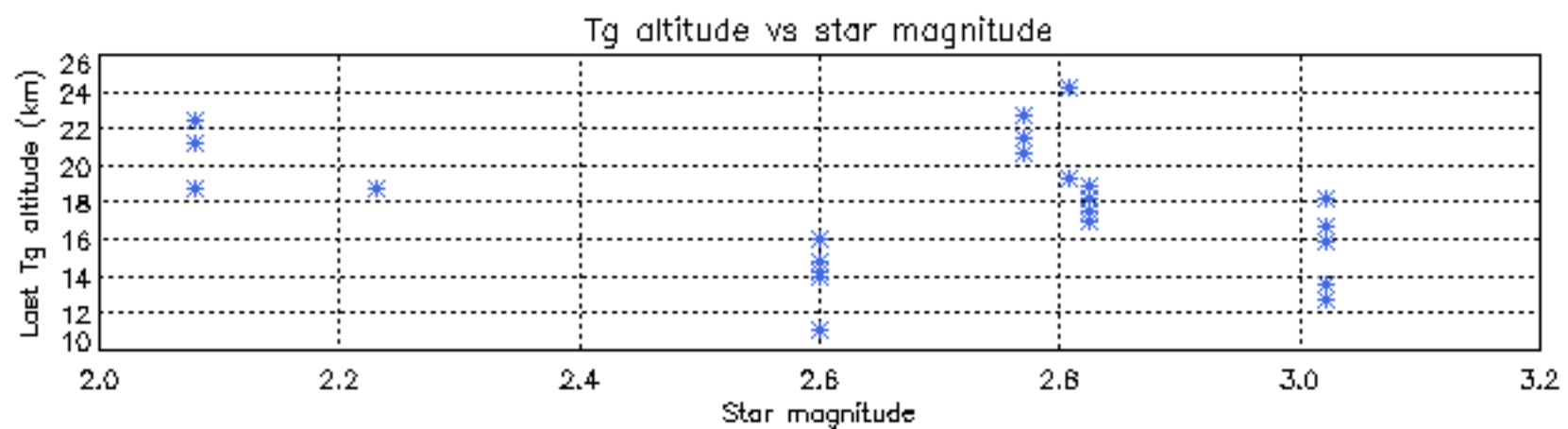
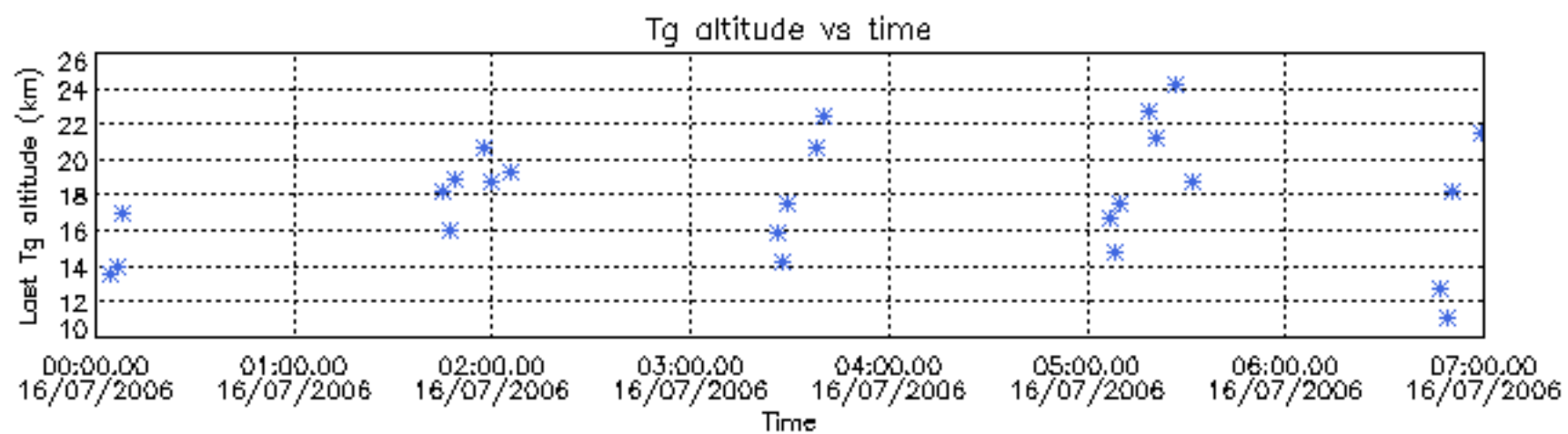
Percentage of saturation errors per profile



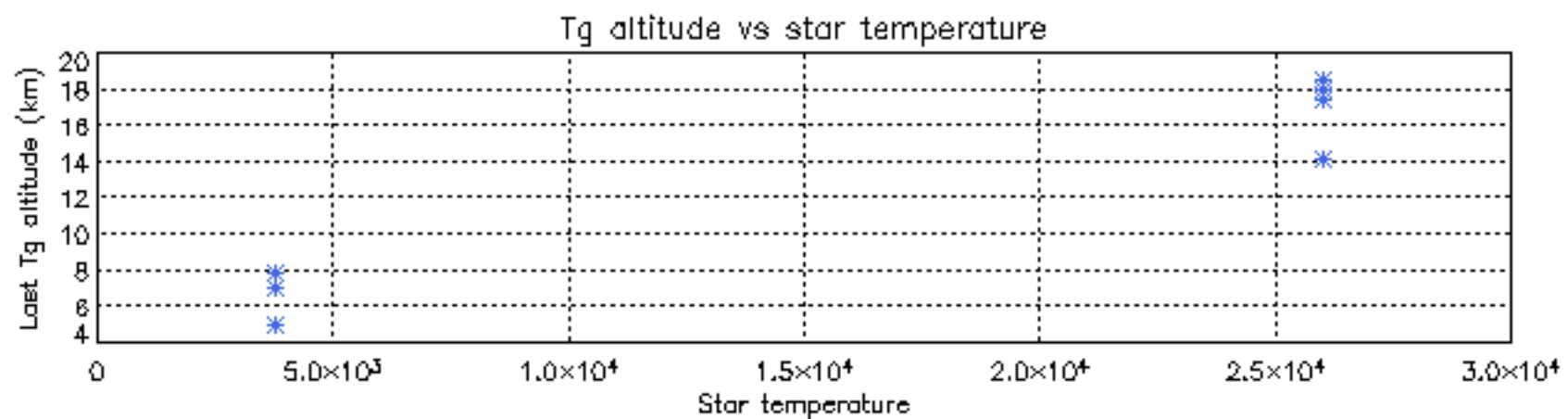
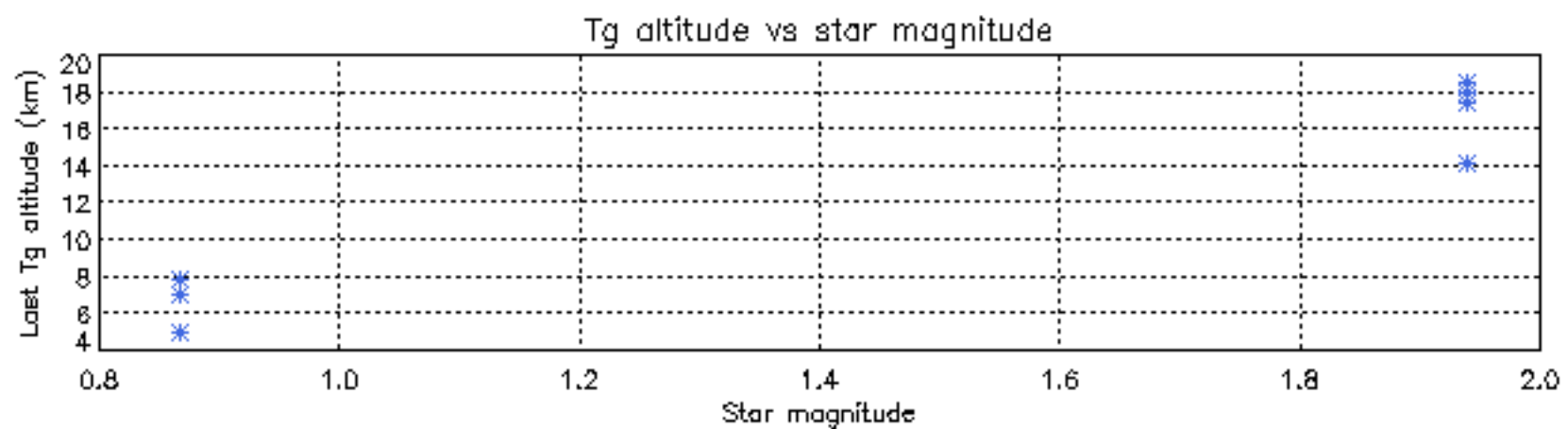
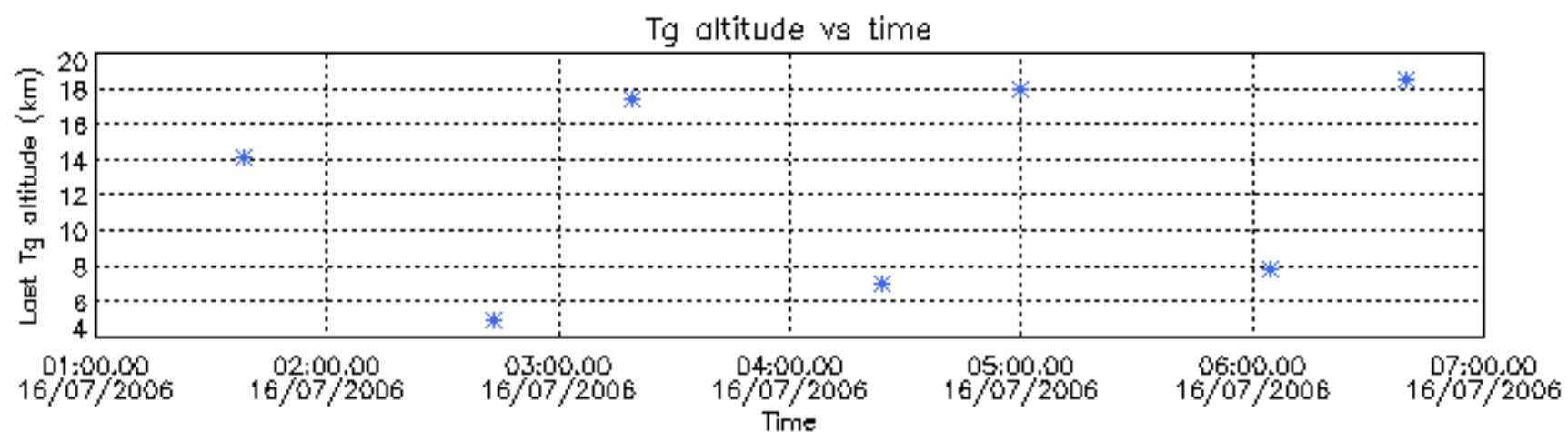
Tangent altitude at which the star is lost

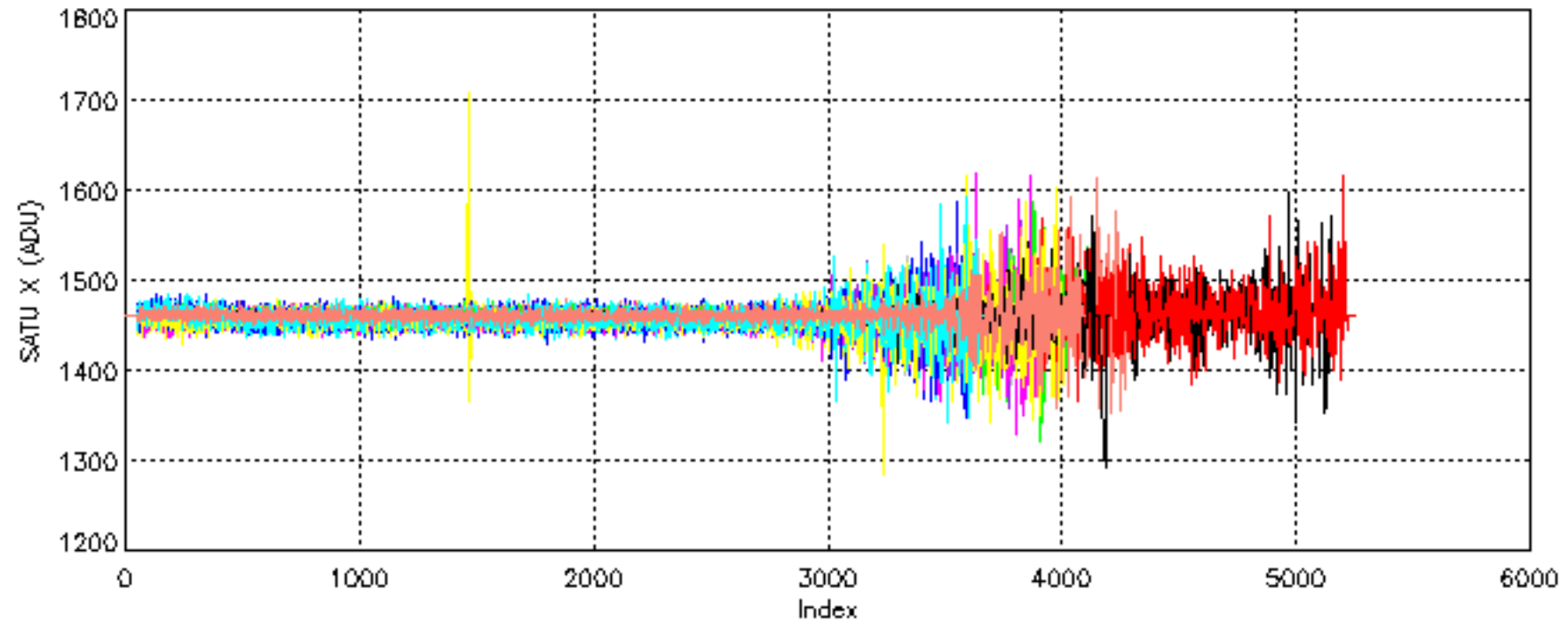


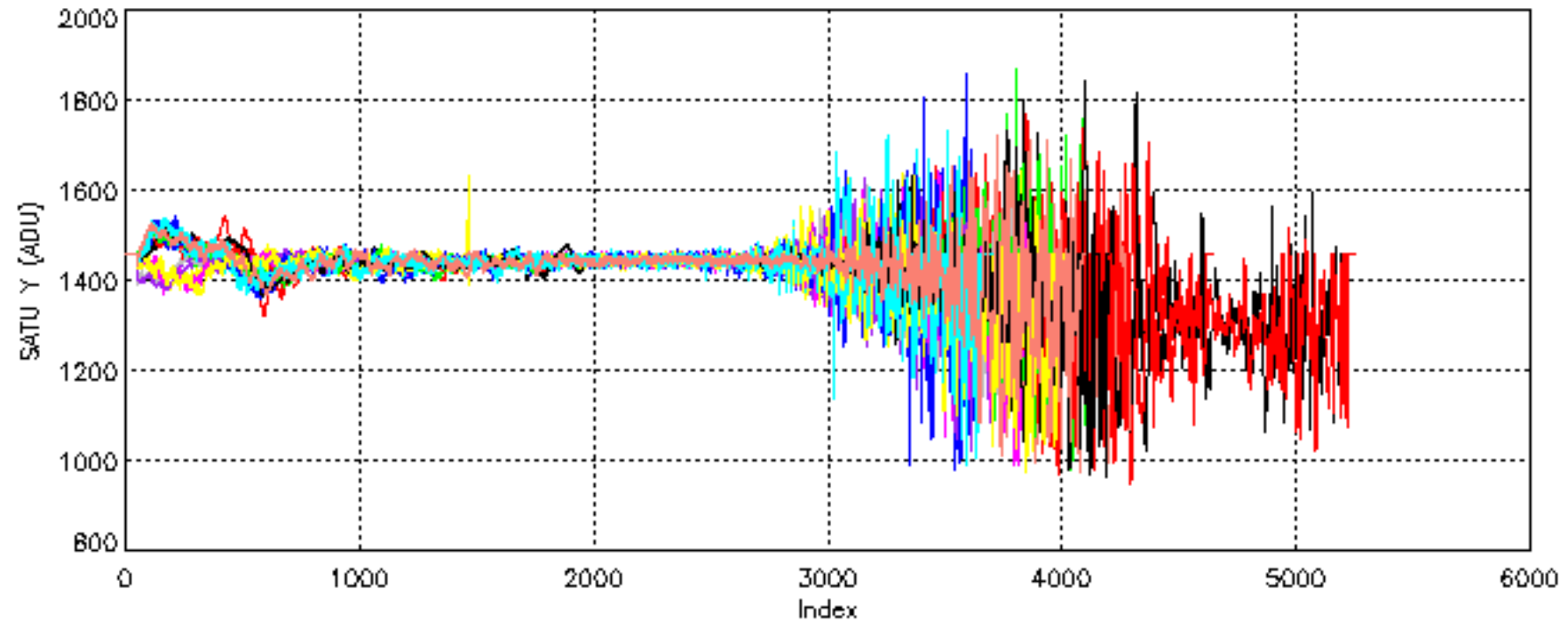
Tangent altitude at which the star is lost

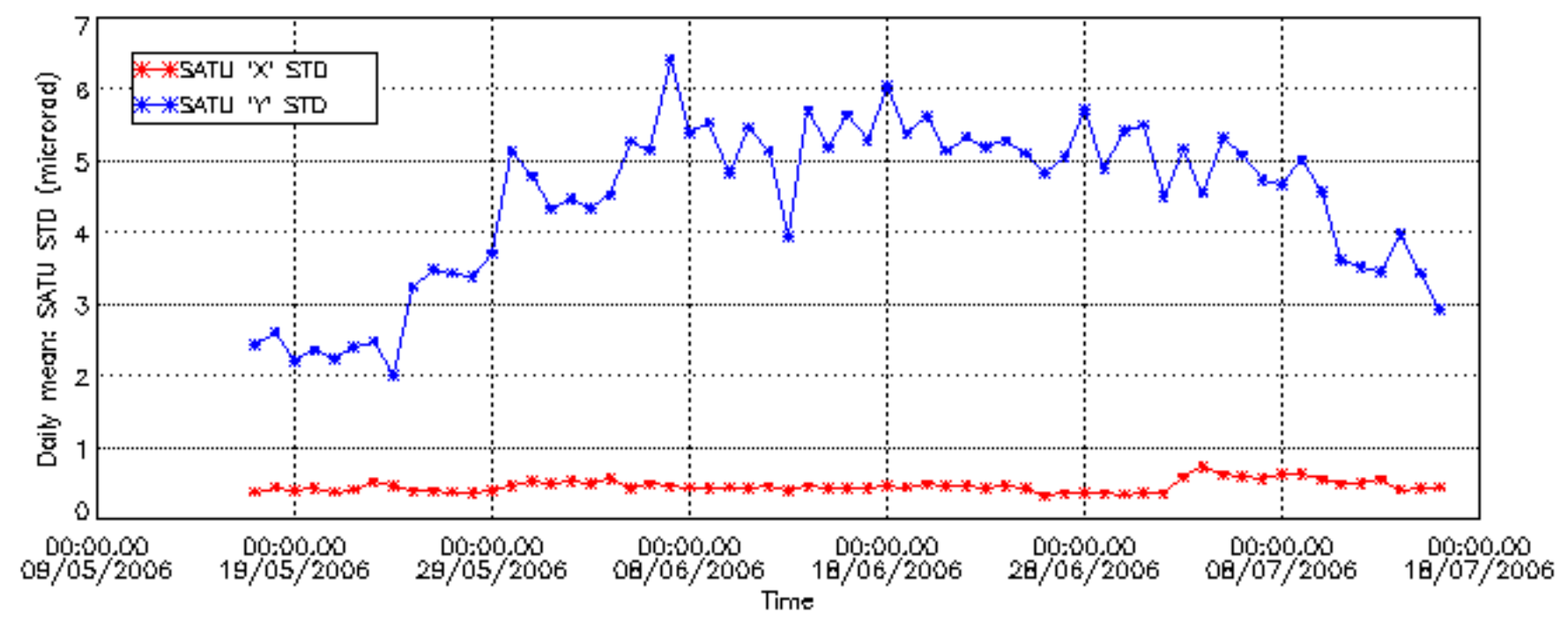


Tangent altitude at which the star is lost









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 4; 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
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 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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 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
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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
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 7; 745.3; 01-JUL-2006 04:28:37; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;22661
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 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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 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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 3; -834.3; 01-JUL-2006 05:42:54; Dark ; 41.5; 165; 34Gam Eri ; 2.95; 3200;occ; 83; 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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7; 745.8; 01-JUL-2006 06:09:14; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 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
13; 1981.8; 01-JUL-2006 06:29:50; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;22662
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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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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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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
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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
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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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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11; 1981.6; 01-JUL-2006 21:35:13; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;22671
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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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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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 7; 798.9; 09-JUL-2006 06:58:59; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;22777
 8; 1082.7; 09-JUL-2006 07:03:43; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;22777
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 10; 1292.7; 09-JUL-2006 07:07:13; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;22777
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4; 2306.7; 09-JUL-2006 07:24:07; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;22777
5; 2463.0; 09-JUL-2006 07:26:43; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;22777
6; 2797.1; 09-JUL-2006 07:32:17; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;22777
7; 2961.5; 09-JUL-2006 07:35:02; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;22777
8; 3210.3; 09-JUL-2006 07:39:11; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;22777
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