

GOMOS Daily Report 08-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	10JUL2006 04:31:45
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (08JUL2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (09JUL2006 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)

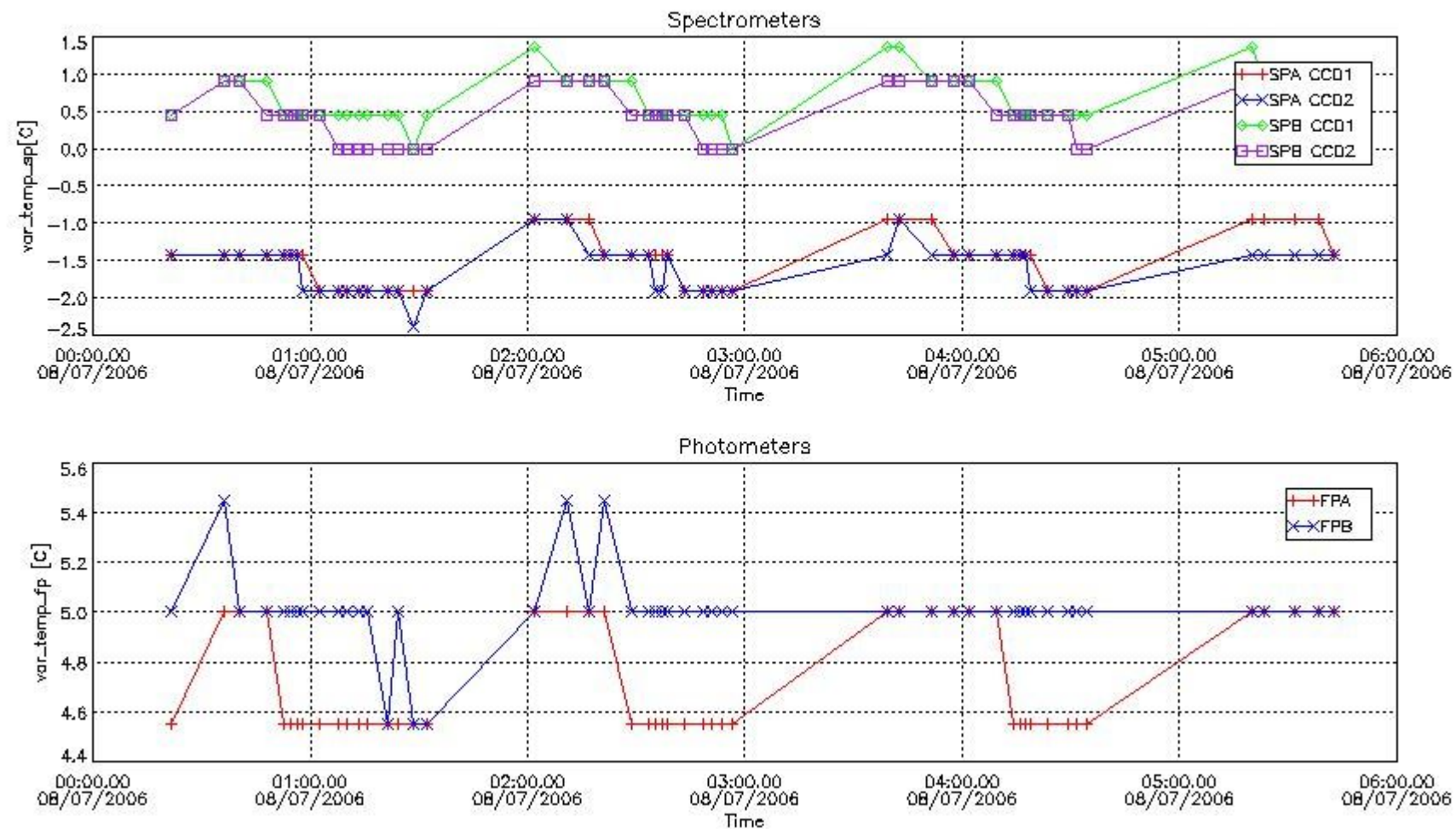
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20060708_002129_000000382049_00159_22758_0000.N1	08-JUL-2006 00:21:29	Dark	37.500	165	34Gam Eri	2.9500	3200.0	75	22758	No
2	GOM_TRA_1PNPDE20060708_003621_000000442049_00160_22759_0001.N1	08-JUL-2006 00:36:21	Dark	44.000	9	Alp Eri	0.45300	24000.	88	22759	No
3	GOM_TRA_1PNPDE20060708_004032_000000372049_00160_22759_0002.N1	08-JUL-2006 00:40:32	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	22759	No
4	GOM_TRA_1PNPDE20060708_004804_000000402049_00160_22759_0003.N1	08-JUL-2006 00:48:04	Twilight	40.000	45	Alp Pav	1.9400	26000.	80	22759	No
5	GOM_TRA_1PNPDE20060708_005253_000000392049_00160_22759_0004.N1	08-JUL-2006 00:52:53	Bright	38.500	147	Alp Ara	2.8770	26000.	77	22759	No
6	GOM_TRA_1PNPDE20060708_005443_000000402049_00160_22759_0005.N1	08-JUL-2006 00:54:43	Bright	39.500	40	The Sco	1.8590	7100.0	79	22759	No
7	GOM_TRA_1PNPDE20060708_005623_000000382049_00160_22759_0006.N1	08-JUL-2006 00:56:23	Bright	37.500	25	35Lam Sco	1.6200	28000.	75	22759	No
8	GOM_TRA_1PNPDE20060708_005750_000000432049_00160_22759_0007.N1	08-JUL-2006 00:57:50	Bright	43.000	116	19Del Sgr	2.7000	4100.0	86	22759	No
9	GOM_TRA_1PNPDE20060708_010232_000000372049_00160_22759_0008.N1	08-JUL-2006 01:02:32	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	22759	No
10	GOM_TRA_1PNPDE20060708_010757_000000362049_00160_22759_0009.N1	08-JUL-2006 01:07:57	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	22759	No
11	GOM_TRA_1PNPDE20060708_011015_000000382049_00160_22759_0010.N1	08-JUL-2006 01:10:15	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	22759	No
12	GOM_TRA_1PNPDE20060708_011316_000000382049_00160_22759_0011.N1	08-JUL-2006 01:13:16	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	22759	No
13	GOM_TRA_1PNPDE20060708_011553_000000362049_00160_22759_0012.N1	08-JUL-2006 01:15:53	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	22759	No
14	GOM_TRA_1PNPDE20060708_012131_000000342049_00160_22759_0013.N1	08-JUL-2006 01:21:31	Bright	33.500	130	23Bet Dra	2.7990	5800.0	67	22759	No
15	GOM_TRA_1PNPDE20060708_012413_000000362049_00160_22759_0014.N1	08-JUL-2006 01:24:13	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	22759	No
16	GOM_TRA_1PNPDE20060708_012820_000000332049_00160_22759_0015.N1	08-JUL-2006 01:28:20	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	22759	No
17	GOM_TRA_1PNPDE20060708_013217_000000362049_00160_22759_0016.N1	08-JUL-2006 01:32:17	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	22759	No
18	GOM_TRA_1PNPDE20060708_020206_000000372049_00160_22759_0000.N1	08-JUL-2006 02:02:06	Dark	37.000	165	34Gam Eri	2.9500	3200.0	74	22759	No
19	GOM_TRA_1PNPDE20060708_021046_000000412049_00160_22759_0001.N1	08-JUL-2006 02:10:46	Dark	40.500	157	The1Eri	2.9060	9300.0	81	22759	No
20	GOM_TRA_1PNPDE20060708_021657_000000462049_00161_22760_0002.N1	08-JUL-2006 02:16:57	Dark	45.500	9	Alp Eri	0.45300	24000.	91	22760	No
21	GOM_TRA_1PNPDE20060708_022108_000000372049_00161_22760_0003.N1	08-JUL-2006 02:21:08	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22760	No
22	GOM_TRA_1PNPDE20060708_022841_000000422049_00161_22760_0004.N1	08-JUL-2006 02:28:41	Twilight	42.000	45	Alp Pav	1.9400	26000.	84	22760	No
23	GOM_TRA_1PNPDE20060708_023329_000000382049_00161_22760_0005.N1	08-JUL-2006 02:33:29	Bright	37.500	147	Alp Ara	2.8770	26000.	75	22760	No
24	GOM_TRA_1PNPDE20060708_023519_000000412049_00161_22760_0006.N1	08-JUL-2006 02:35:19	Bright	41.000	40	The Sco	1.8590	7100.0	82	22760	No
25	GOM_TRA_1PNPDE20060708_023659_000000412049_00161_22760_0007.N1	08-JUL-2006 02:36:59	Bright	41.000	25	35Lam Sco	1.6200	28000.	82	22760	No
26	GOM_TRA_1PNPDE20060708_023826_000000472049_00161_22760_0008.N1	08-JUL-2006 02:38:26	Bright	47.000	116	19Del Sgr	2.7000	4100.0	94	22760	No
27	GOM_TRA_1PNPDE20060708_024308_000000372049_00161_22760_0009.N1	08-JUL-2006 02:43:08	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	22760	No
28	GOM_TRA_1PNPDE20060708_024833_000000362049_00161_22760_0010.N1	08-JUL-2006 02:48:33	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	22760	No
29	GOM_TRA_1PNPDE20060708_025051_000000352049_00161_22760_0011.N1	08-JUL-2006 02:50:51	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	22760	No
30	GOM_TRA_1PNPDE20060708_025352_000000352049_00161_22760_0012.N1	08-JUL-2006 02:53:52	Bright	35.000	127	27Bet Her	2.7810	4700.0	70	22760	No
31	GOM_TRA_1PNPDE20060708_025629_000000342049_00161_22760_0013.N1	08-JUL-2006 02:56:29	Bright	34.000	133	40Zet Her	2.8070	6000.0	68	22760	No
32	GOM_TRA_1PNPDE20060708_033920_000000382049_00161_22760_0000.N1	08-JUL-2006 03:39:20	Dark	37.500	128	67Bet Eri	2.7840	9700.0	75	22760	No
33	GOM_TRA_1PNPDE20060708_034242_000000392049_00161_22760_0001.N1	08-JUL-2006 03:42:42	Dark	38.500	165	34Gam Eri	2.9500	3200.0	77	22760	No
34	GOM_TRA_1PNPDE20060708_035123_000000392049_00161_22760_0002.N1	08-JUL-2006 03:51:23	Dark	39.000	157	The1Eri	2.9060	9300.0	78	22760	No
35	GOM_TRA_1PNPDE20060708_035734_000000422049_00162_22761_0003.N1	08-JUL-2006 03:57:34	Dark	42.000	9	Alp Eri	0.45300	24000.	84	22761	No
36	GOM_TRA_1PNPDE20060708_040145_000000372049_00162_22761_0004.N1	08-JUL-2006 04:01:45	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22761	No
37	GOM_TRA_1PNPDE20060708_040917_000000412049_00162_22761_0005.N1	08-JUL-2006 04:09:17	Twilight	40.500	45	Alp Pav	1.9400	26000.	81	22761	No
38	GOM_TRA_1PNPDE20060708_041406_000000372049_00162_22761_0006.N1	08-JUL-2006 04:14:06	Bright	36.500	147	Alp Ara	2.8770	26000.	73	22761	No
39	GOM_TRA_1PNPDE20060708_041556_000000442049_00162_22761_0007.N1	08-JUL-2006 04:15:56	Bright	43.500	40	The Sco	1.8590	7100.0	87	22761	No
40	GOM_TRA_1PNPDE20060708_041735_000000372049_00162_22761_0008.N1	08-JUL-2006 04:17:35	Bright	37.000	25	35Lam Sco	1.6200	28000.	74	22761	No
41	GOM_TRA_1PNPDE20060708_041903_000000482049_00162_22761_0009.N1	08-JUL-2006 04:19:03	Bright	47.500	116	19Del Sgr	2.7000	4100.0	95	22761	No
42	GOM_TRA_1PNPDE20060708_042344_000000372049_00162_22761_0010.N1	08-JUL-2006 04:23:44	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	22761	No

43	GOM_TRA_1PNPDE20060708_042909_000000352049_00162_22761_0011.N1	08-JUL-2006 04:29:09	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	22761	No
44	GOM_TRA_1PNPDE20060708_043127_000000362049_00162_22761_0012.N1	08-JUL-2006 04:31:27	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	22761	No
45	GOM_TRA_1PNPDE20060708_043428_000000362049_00162_22761_0013.N1	08-JUL-2006 04:34:28	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	22761	No
46	GOM_TRA_1PNPDE20060708_051956_000000382049_00162_22761_0000.N1	08-JUL-2006 05:19:56	Dark	37.500	128	67Bet Eri	2.7840	9700.0	75	22761	No
47	GOM_TRA_1PNPDE20060708_052318_000000372049_00162_22761_0001.N1	08-JUL-2006 05:23:18	Dark	37.000	165	34Gam Eri	2.9500	3200.0	74	22761	No
48	GOM_TRA_1PNPDE20060708_053159_000000412049_00162_22761_0002.N1	08-JUL-2006 05:31:59	Dark	40.500	157	The1Eri	2.9060	9300.0	81	22761	No
49	GOM_TRA_1PNPDE20060708_053810_000000522049_00163_22762_0003.N1	08-JUL-2006 05:38:10	Dark	51.500	9	Alp Eri	0.45300	24000.	103	22762	No
50	GOM_TRA_1PNPDE20060708_054221_000000372049_00163_22762_0004.N1	08-JUL-2006 05:42:21	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22762	No

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



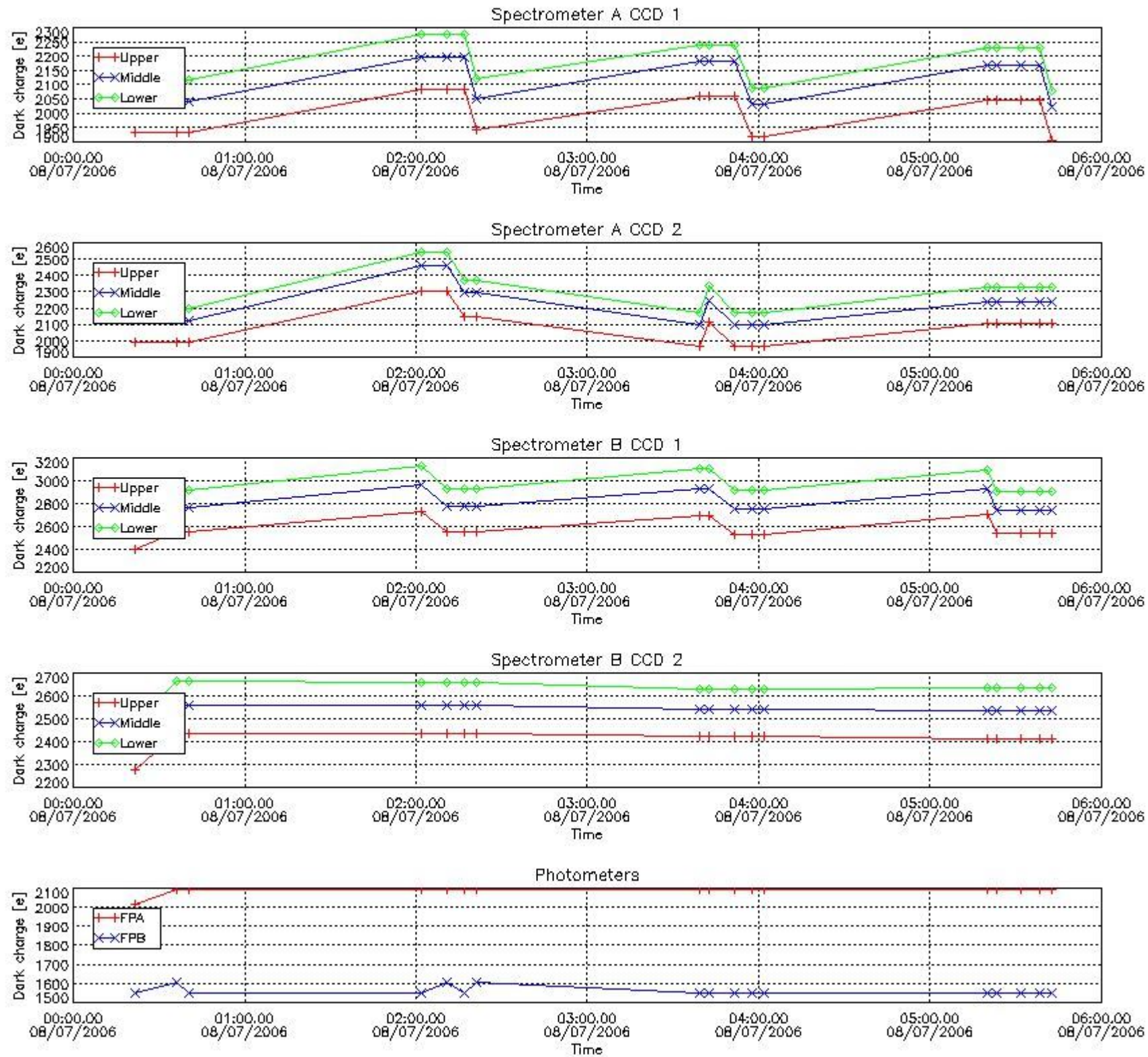
4. Overview of dark signal processing per product

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



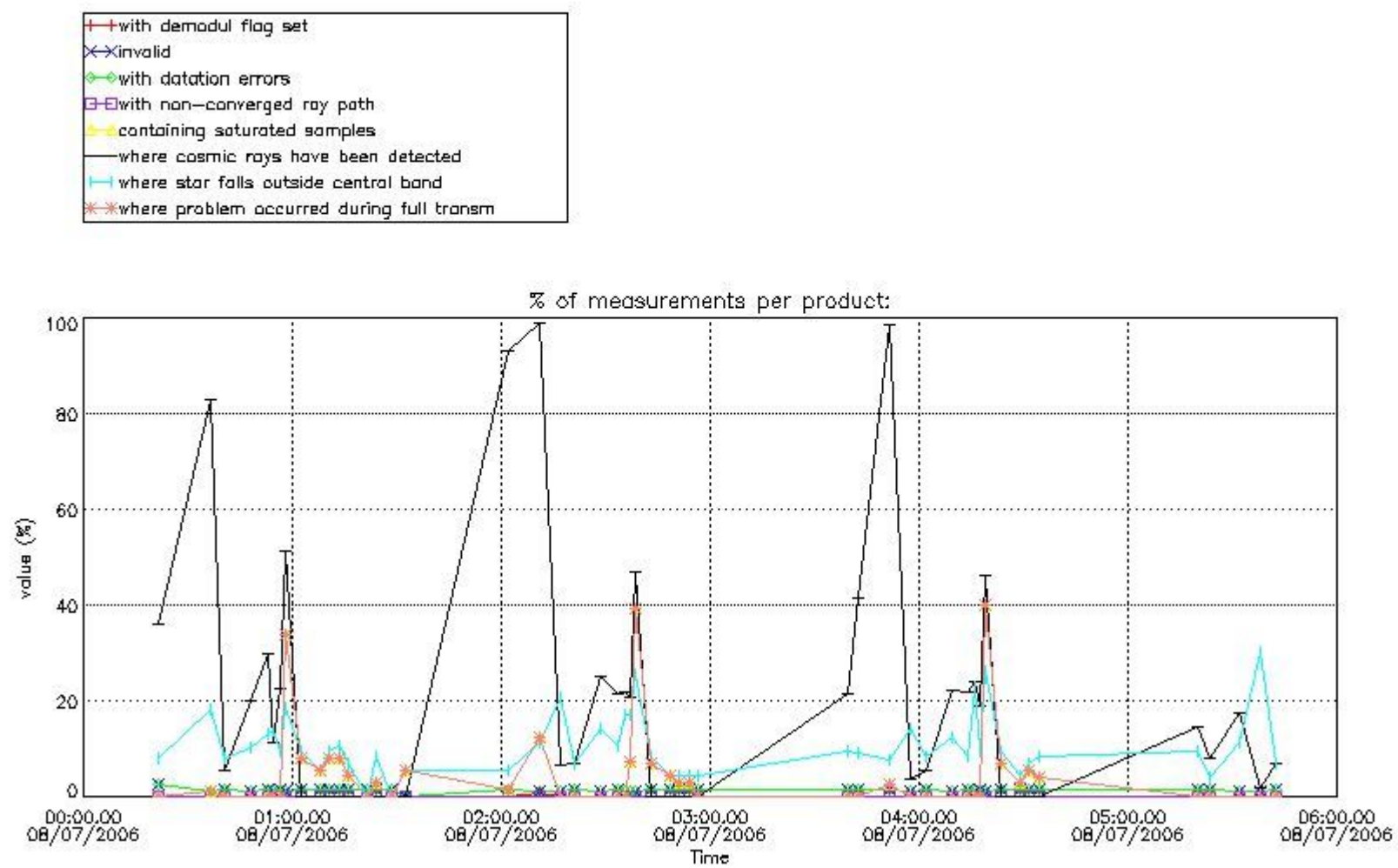
5. Demodulation flag and quality information monitoring

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.

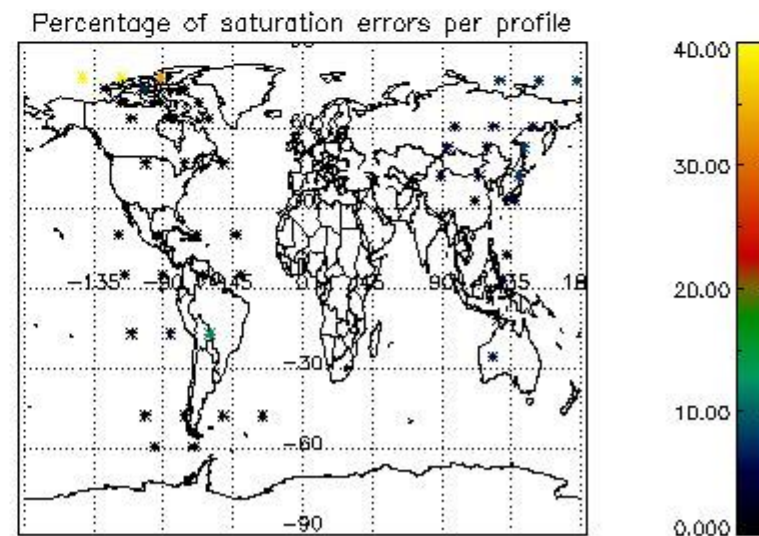
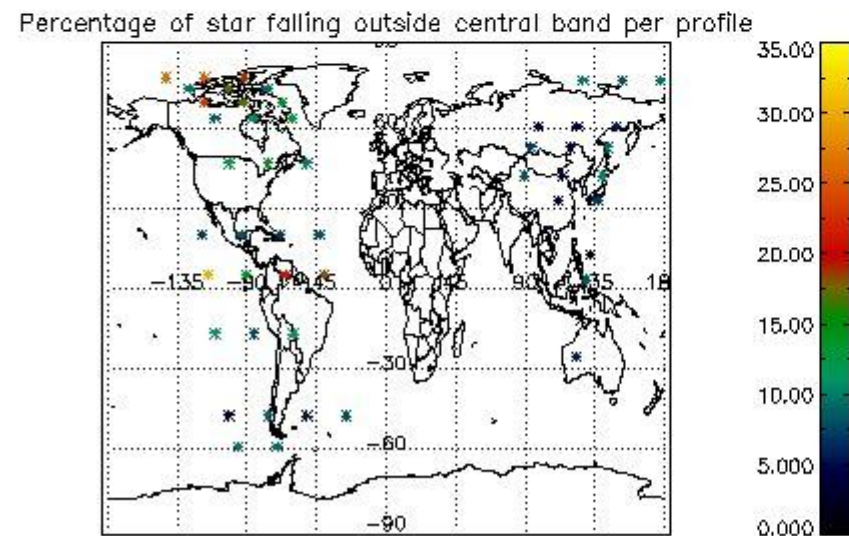
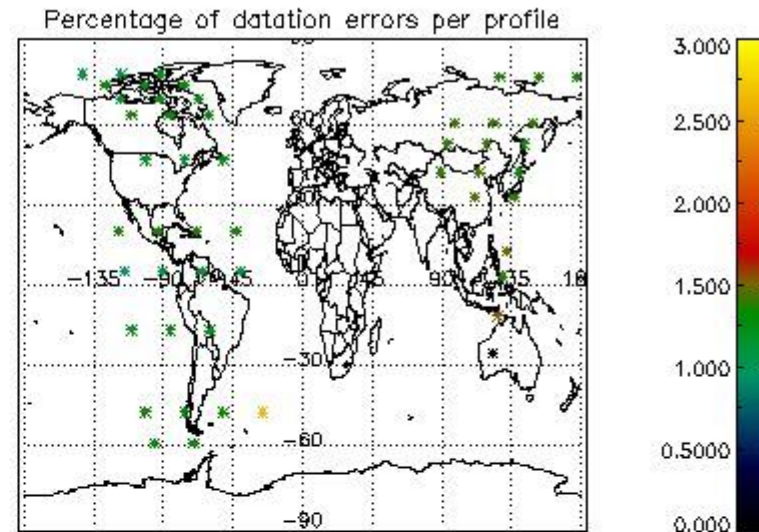
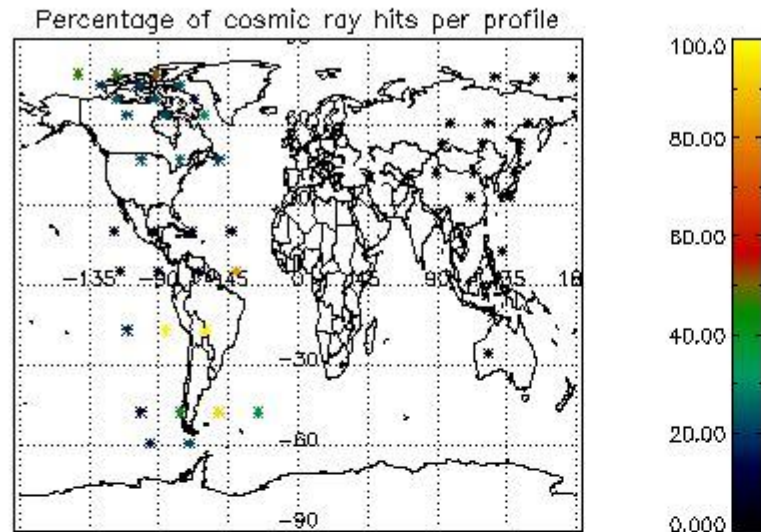
5.1 Percentage of products during reporting period with:

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)



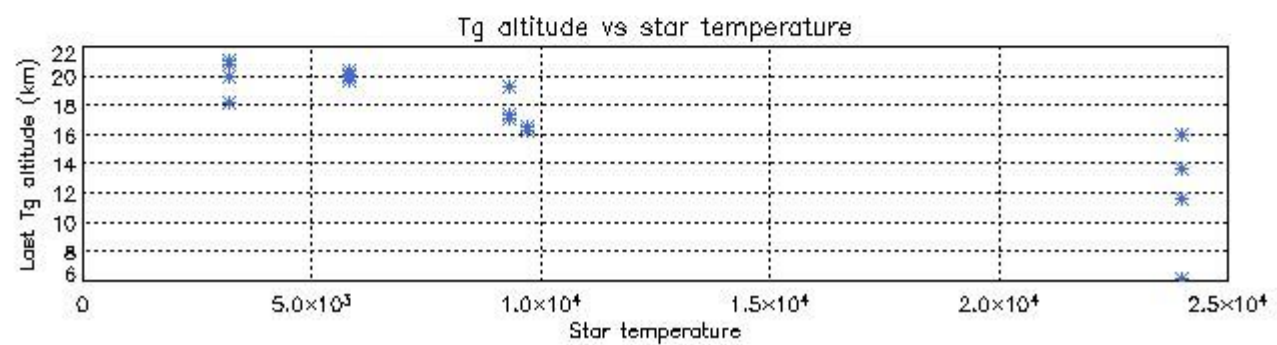
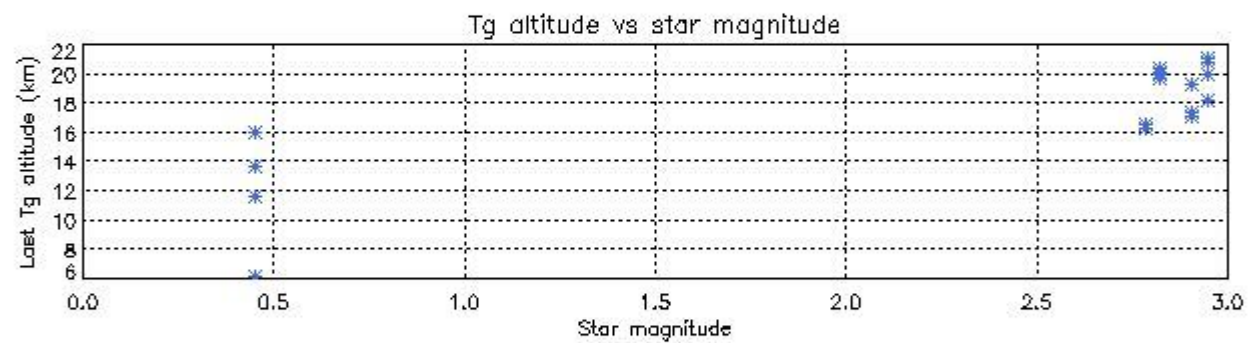
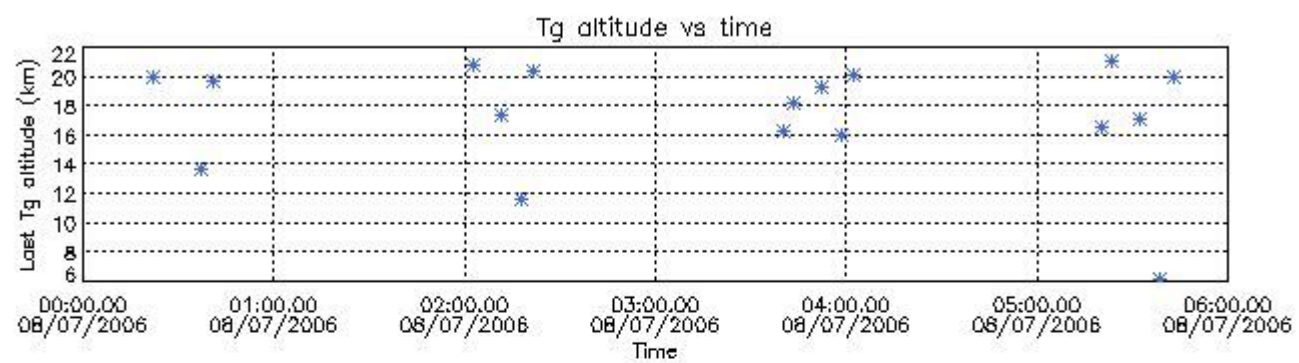
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.291	18.723	17.256
St. deviation:	3.8771	4.7580	1.3548
Maximum:	21.000	28.514	18.528
Minimum:	6.1422	8.1179	15.831
Number of data:	17.000	30.000	3.0000

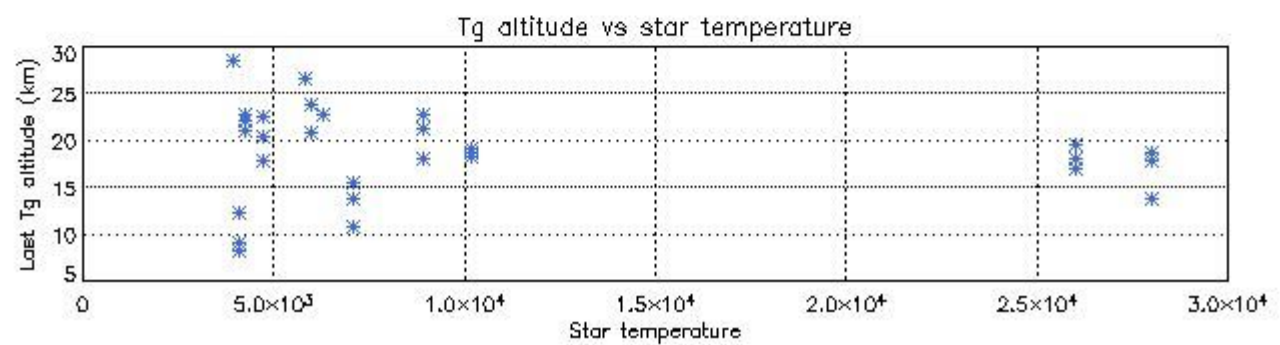
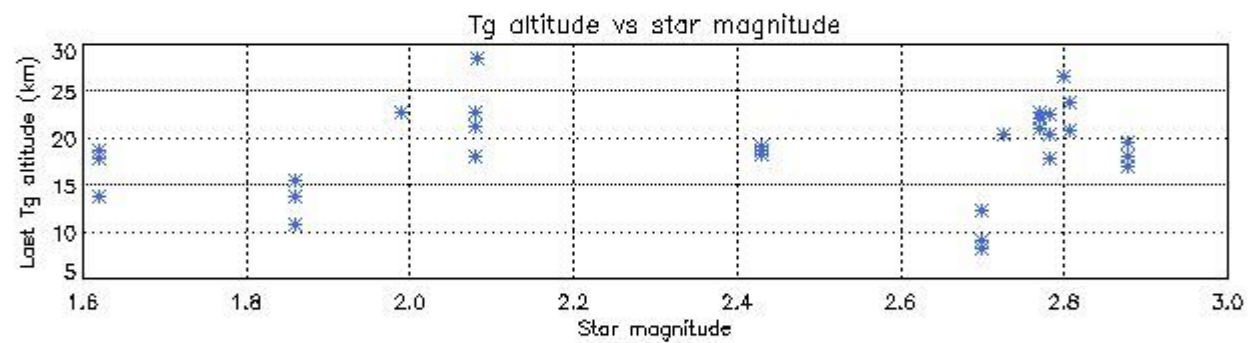
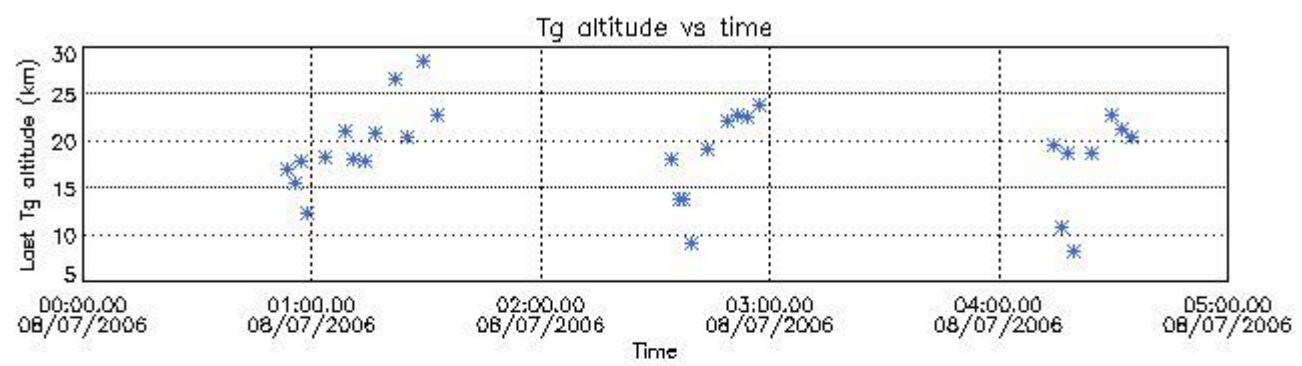
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



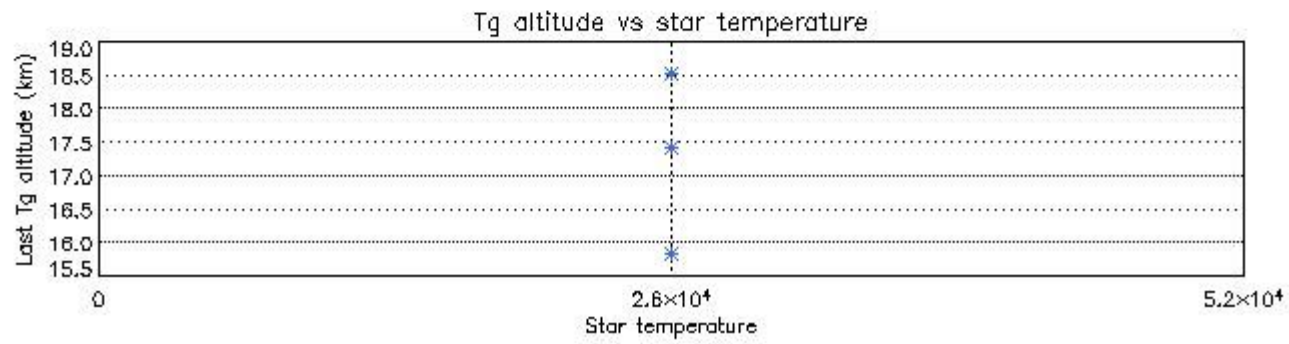
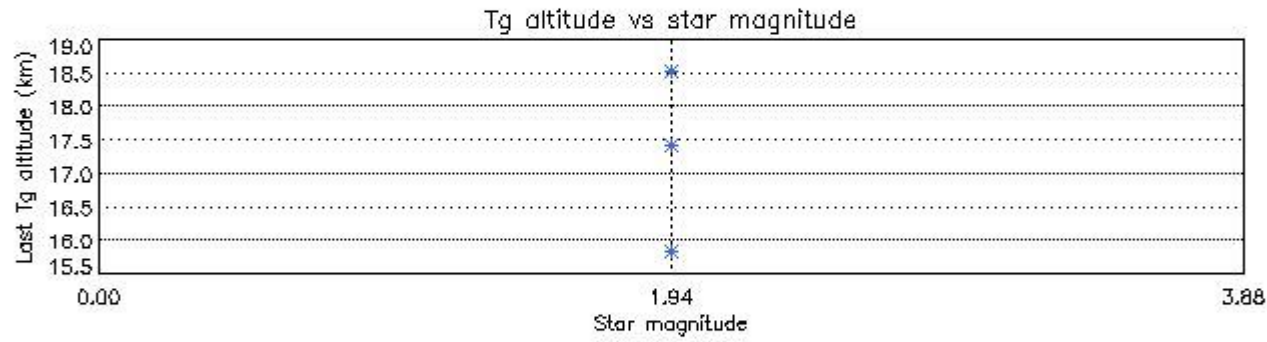
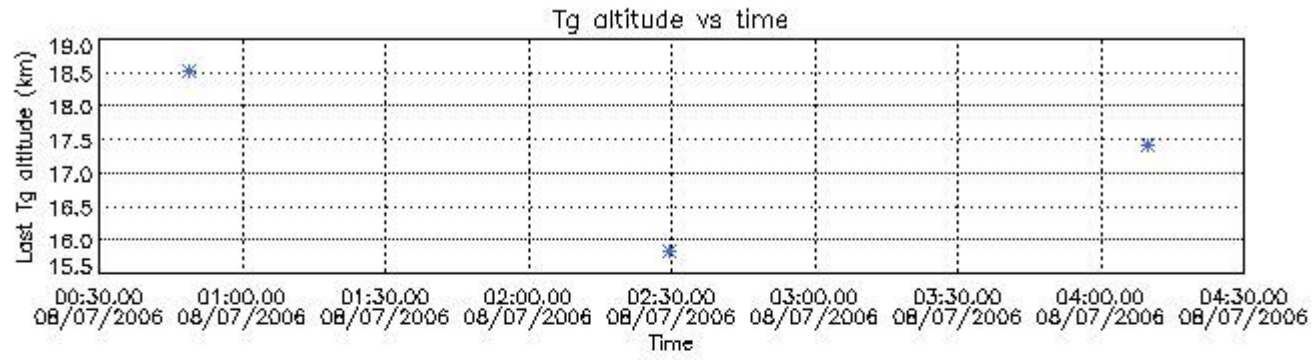
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

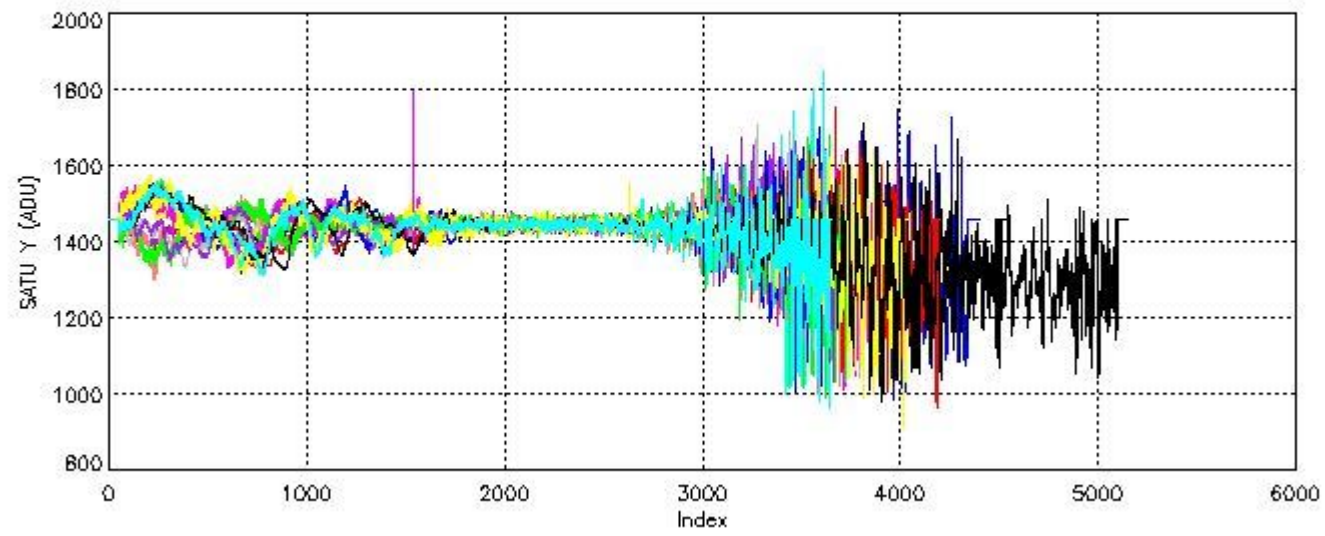
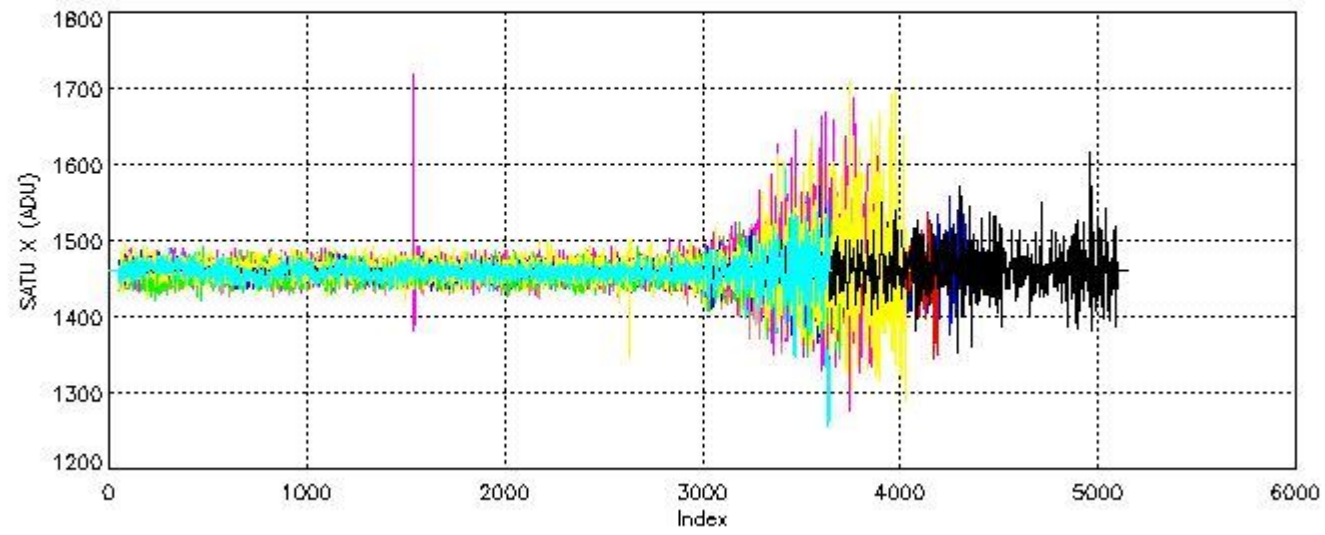


7. Star Acquisition and Tracking Unit (SATU)

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.

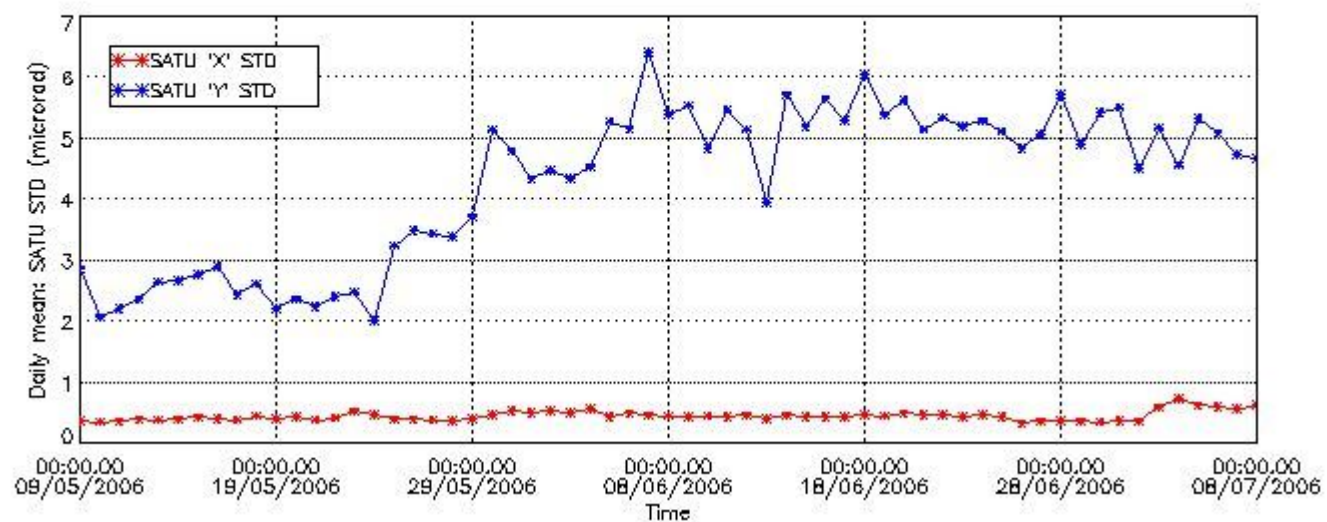
7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1459.8	1442.6	1460.1	1444.6
St. deviation:	6.1835	46.629	7.5529	50.053
Maximum:	1495.0	1574.0	1505.0	1578.0
Minimum:	1433.0	1311.0	1433.0	1318.0

Number of data:	15350.	15350.	25150.	25150.
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7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

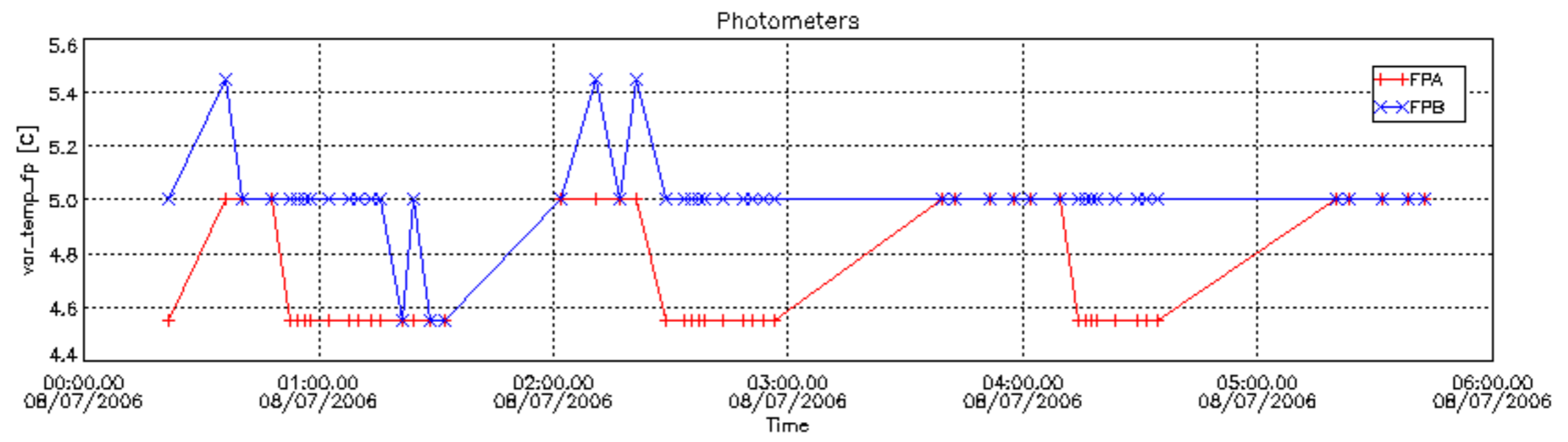
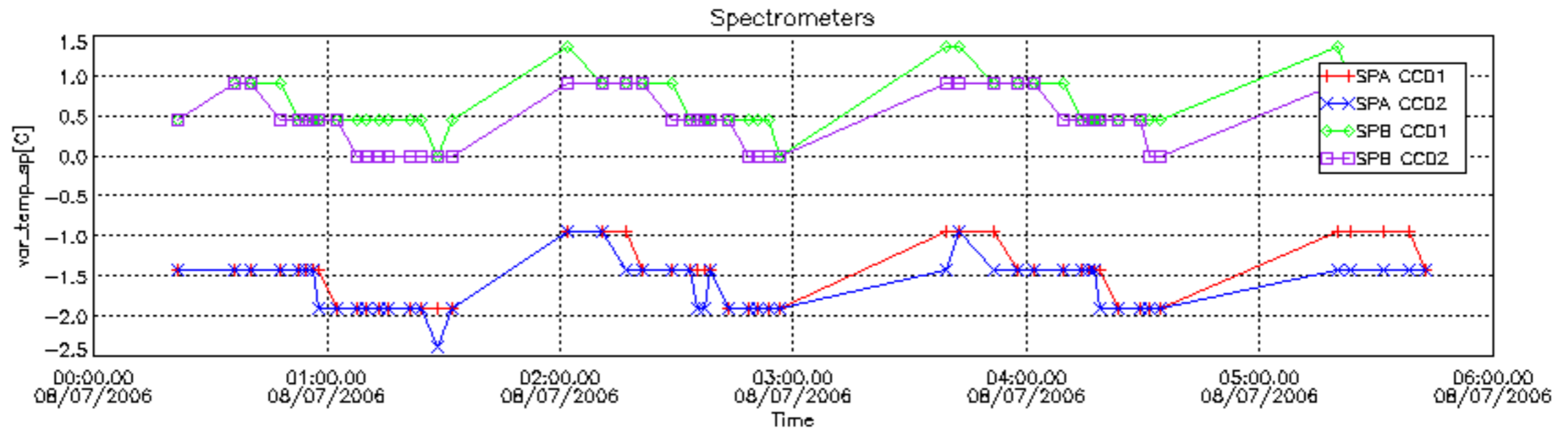
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

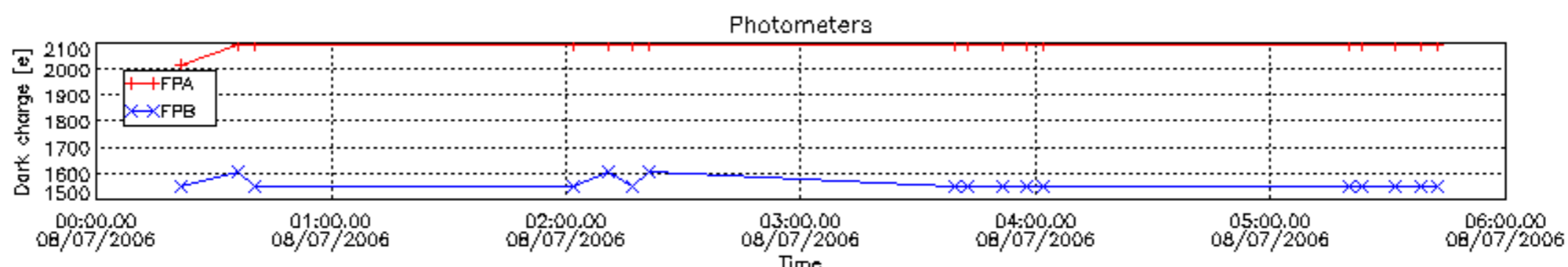
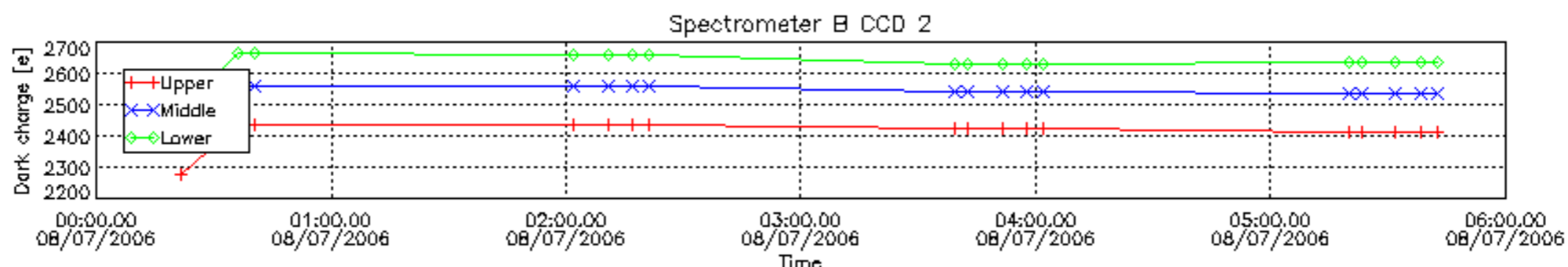
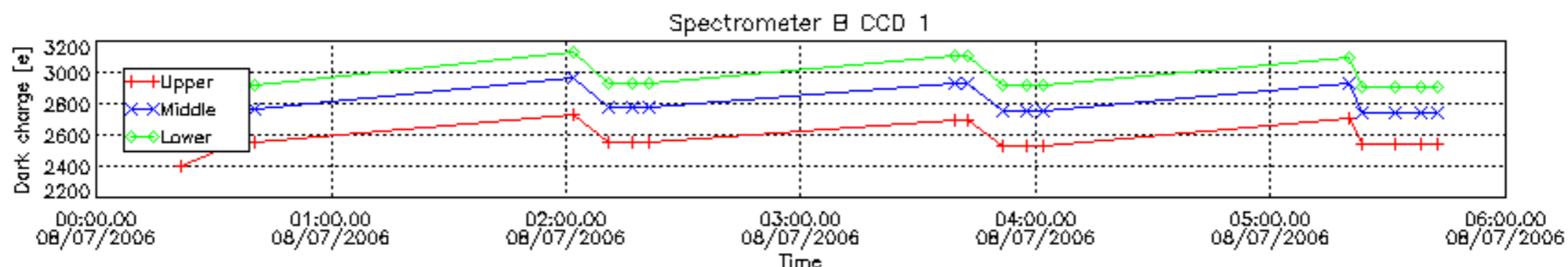
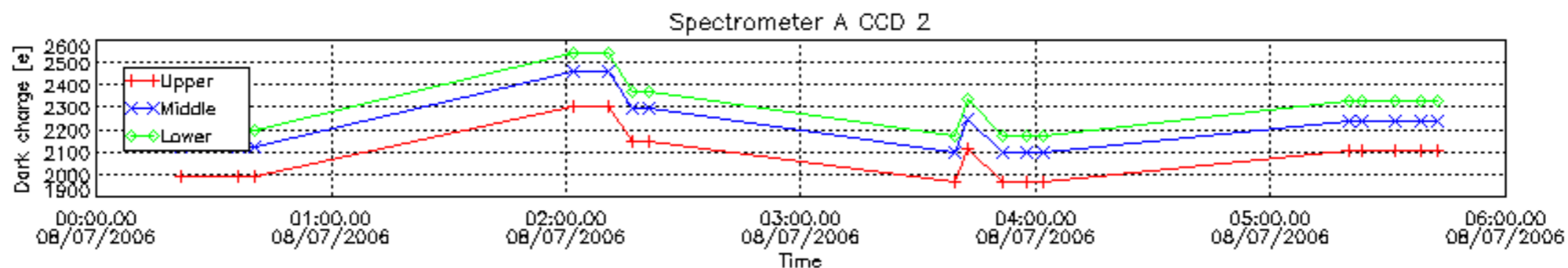
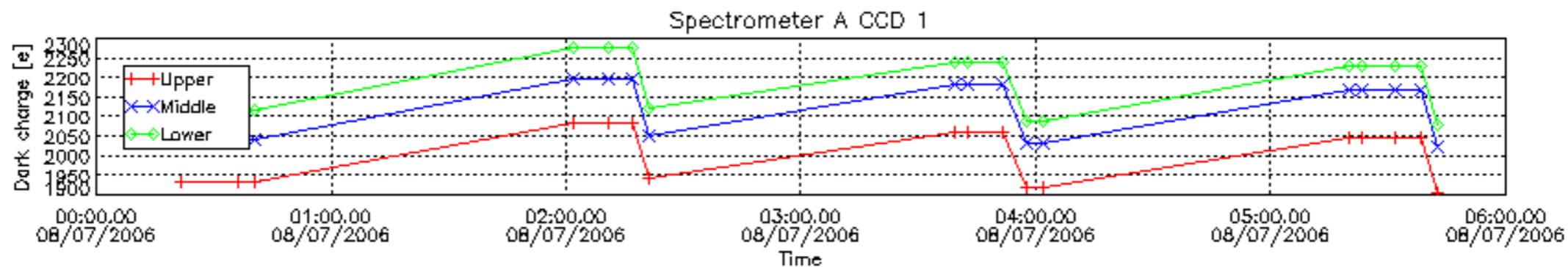


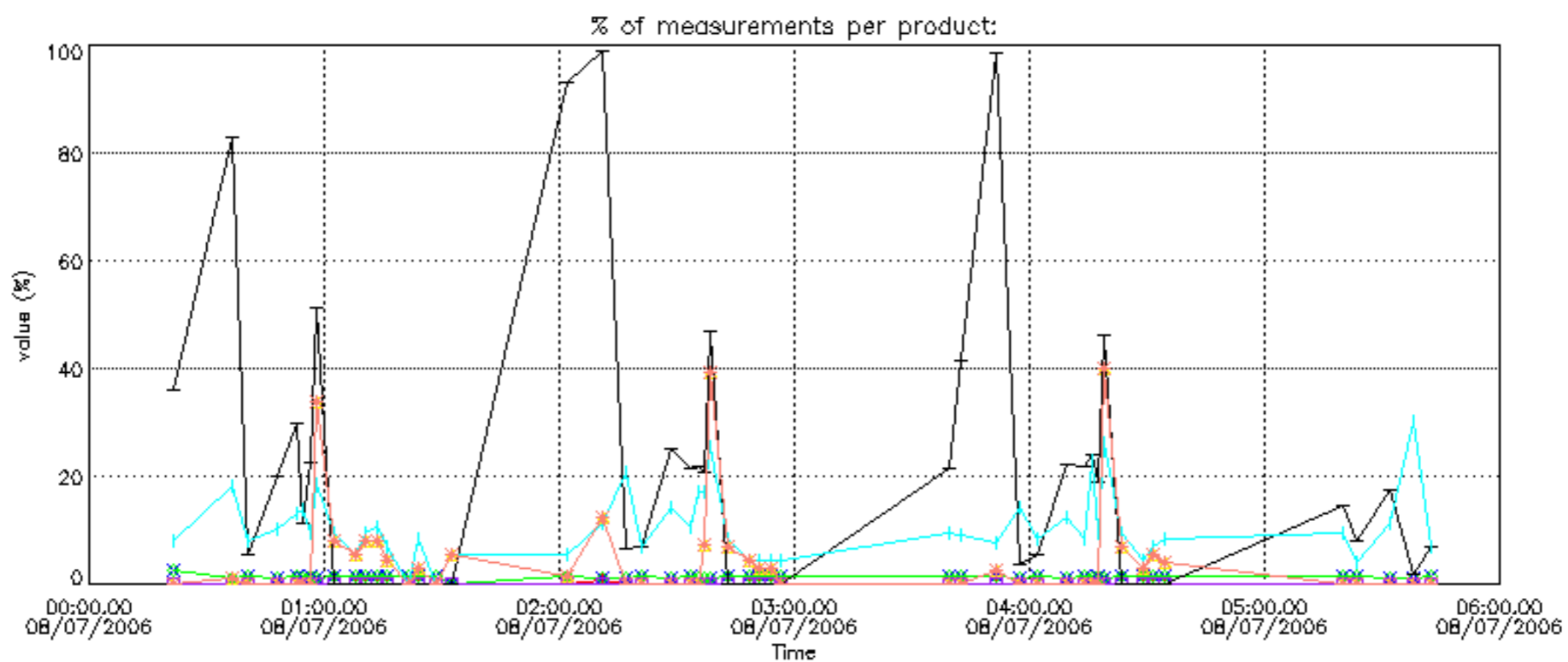
8. Auxiliary Data Files used for the production reported in section 2.2

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.

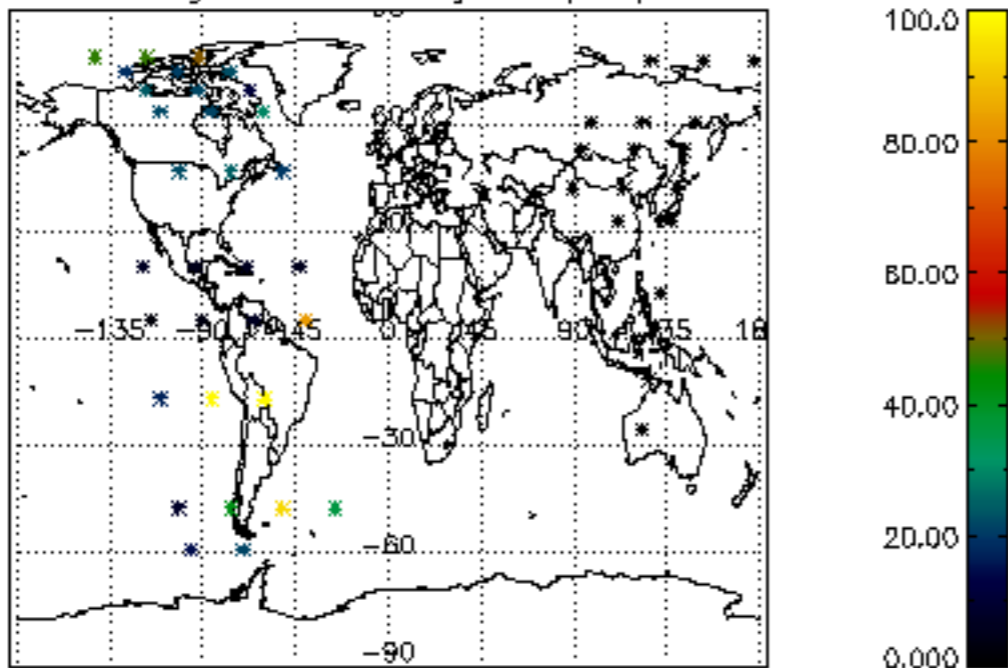
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	08-JUL-2006 00:21:29
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060706_074554_20060704_000000_20100101_000000	1	08-JUL-2006 00:21:29
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	08-JUL-2006 00:21:29
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-JUL-2006 00:21:29
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	08-JUL-2006 00:21:29
ECMWF_FILE	AUX_ECF_AXNECM20060707_061846_20060707_210000_20060708_090000	1	08-JUL-2006 00:21:29
ECMWF_FILE	AUX_ECA_AXNECM20060708_060804_20060707_210000_20060708_090000	2	08-JUL-2006 00:36:21
ECMWF_FILE	AUX_ECF_AXNECM20060707_061846_20060707_210000_20060708_090000	18	08-JUL-2006 02:02:06
ECMWF_FILE	AUX_ECF_AXNECM20060707_182725_20060708_030000_20060708_150000	32	08-JUL-2006 03:39:20
OPTIONAL_ECMWF_FILE	NOT USED	1	08-JUL-2006 00:21:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060707_223710_000057382049_00158_22757_0076.N1	1	08-JUL-2006 00:21:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060708_001807_000057382049_00159_22758_0078.N1	2	08-JUL-2006 00:36:21
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20060707_224721_20060707_193306_20060717_205920	18	08-JUL-2006 02:02:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060708_015346_000044632049_00160_22759_0077.N1	32	08-JUL-2006 03:39:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060708_031327_000057382049_00161_22760_0079.N1	46	08-JUL-2006 05:19:56



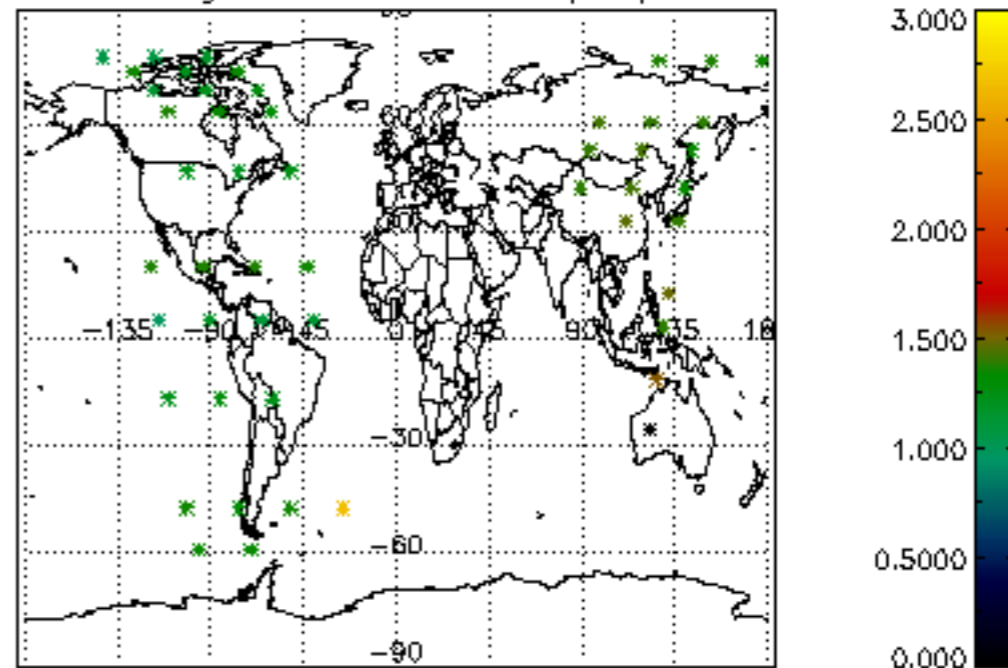




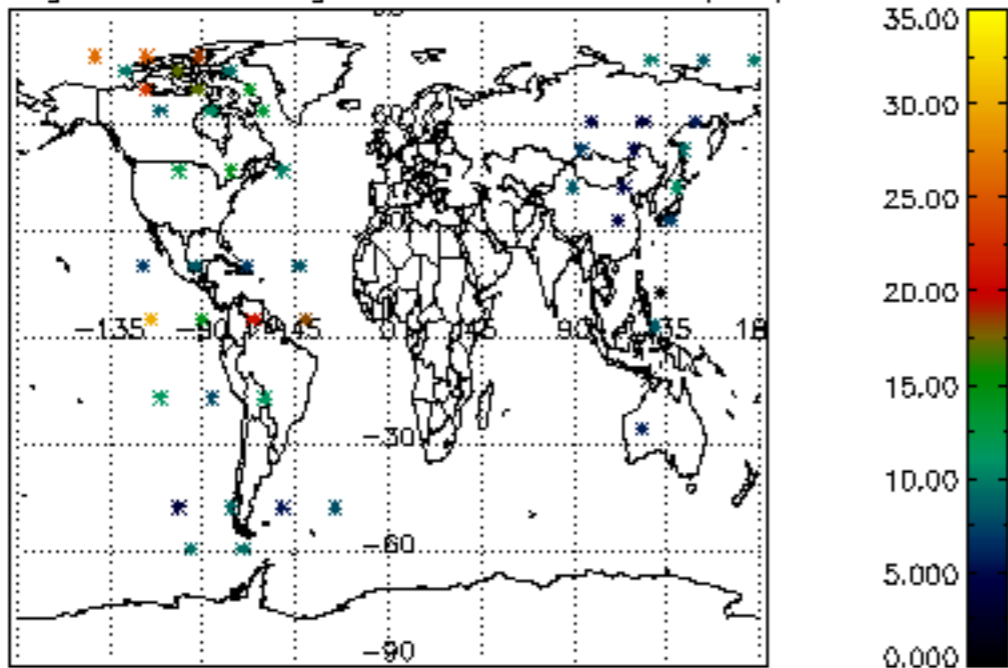
Percentage of cosmic ray hits per profile



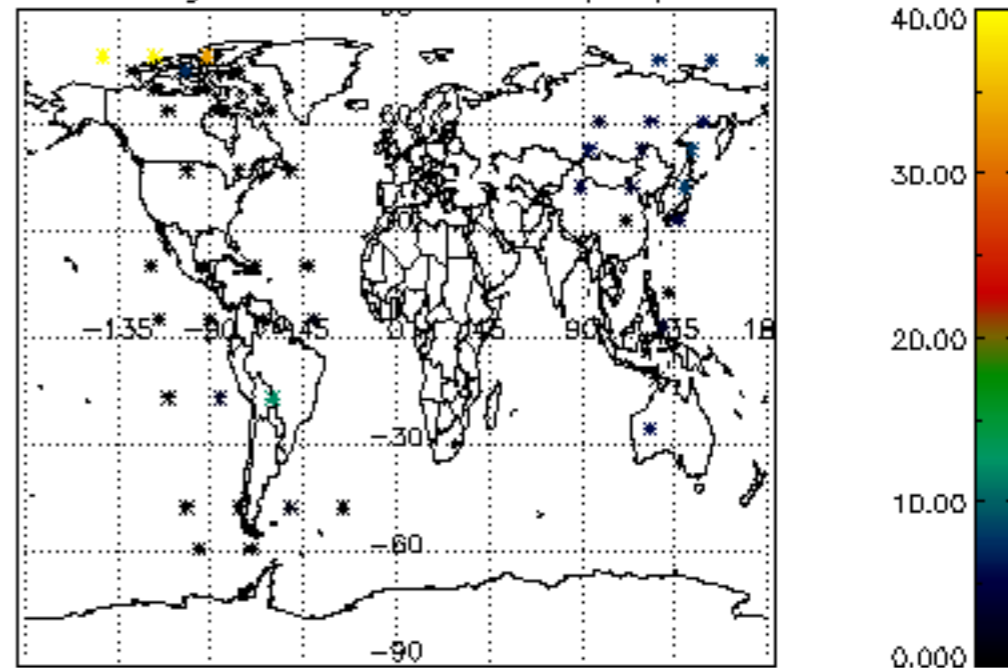
Percentage of datation errors per profile



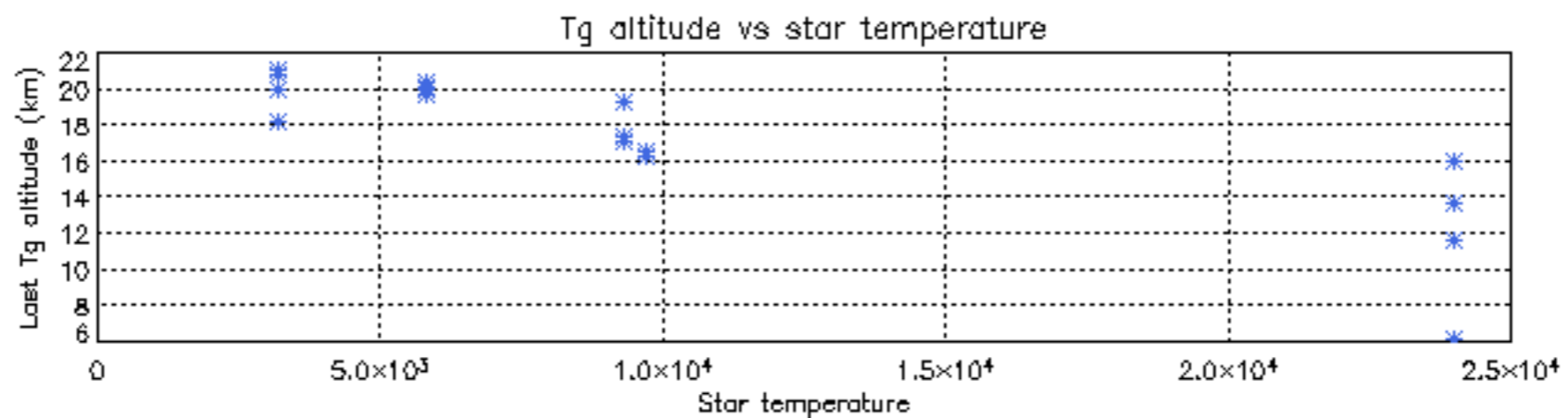
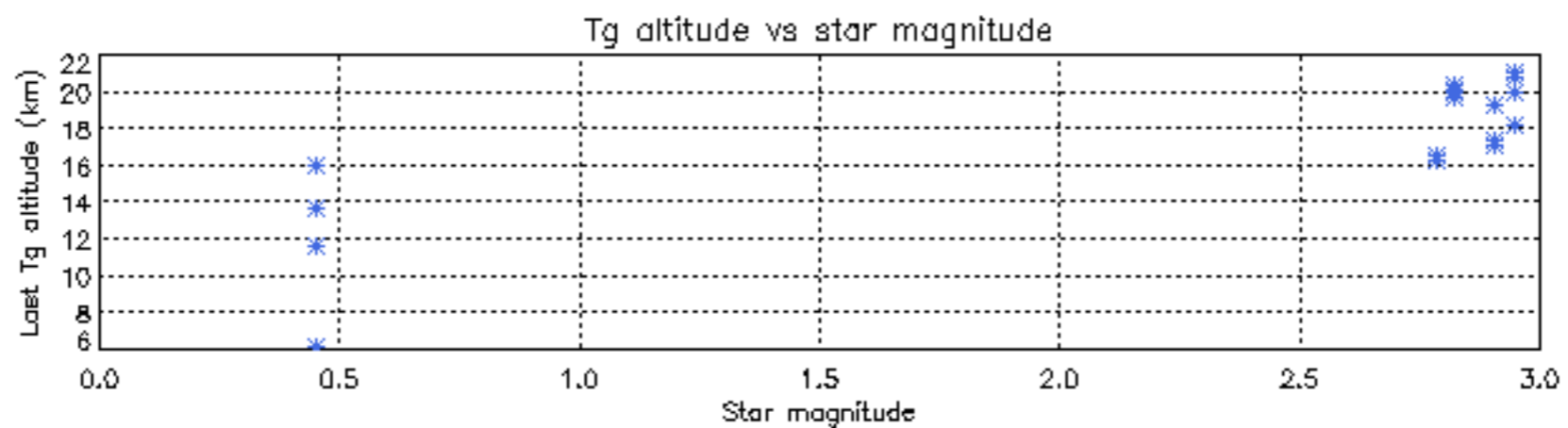
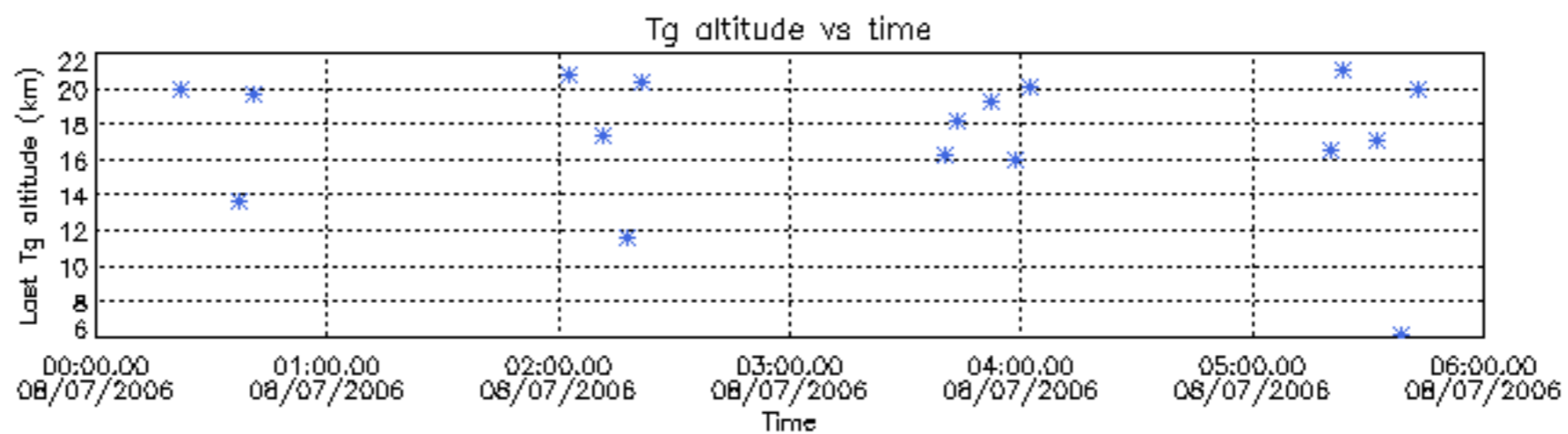
Percentage of star falling outside central band per profile



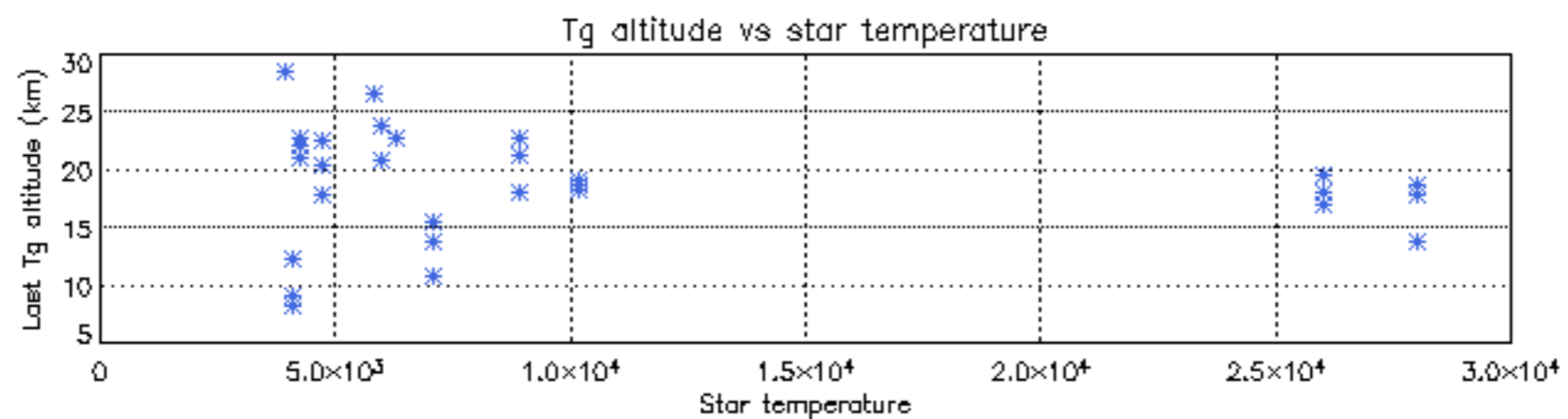
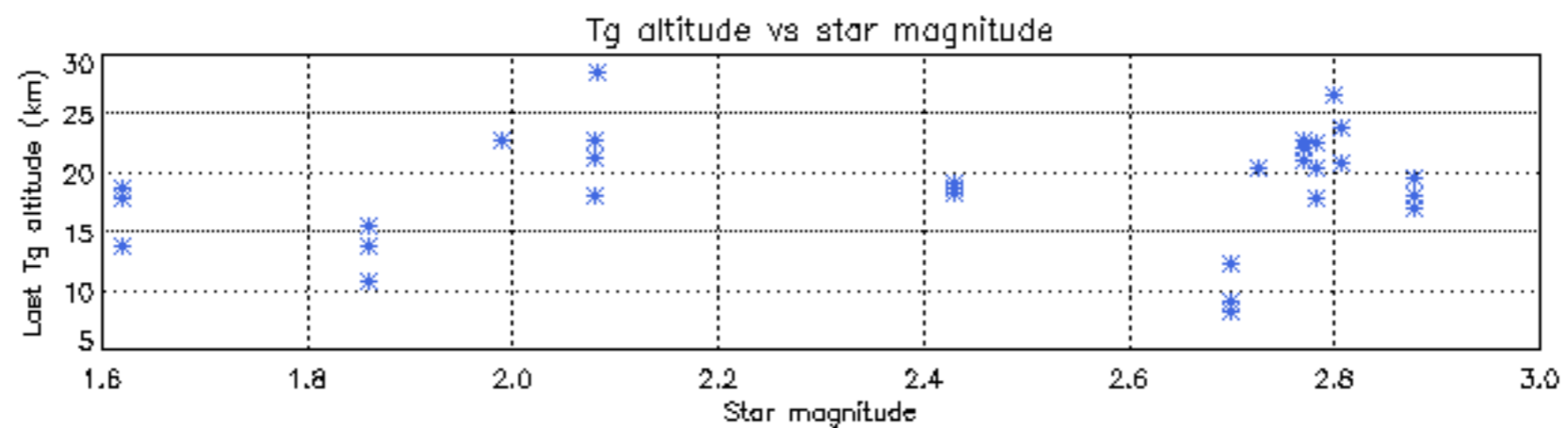
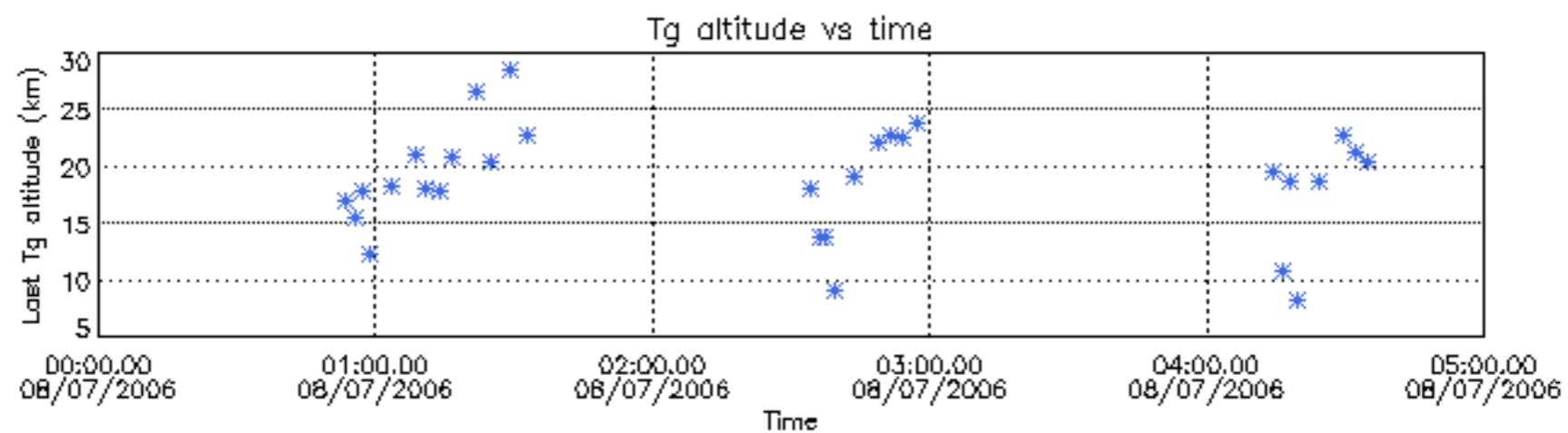
Percentage of saturation errors per profile



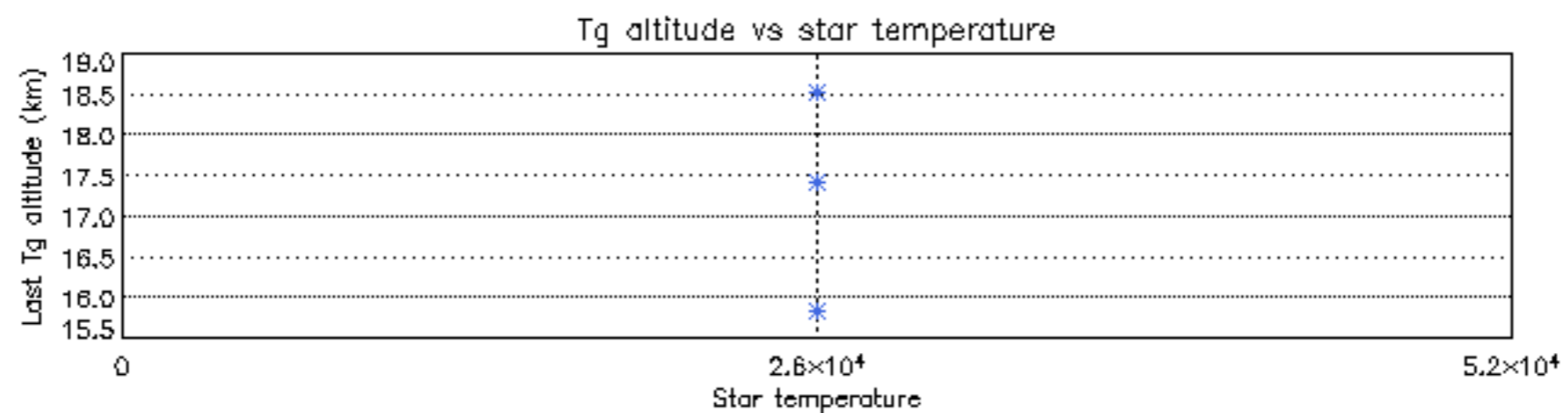
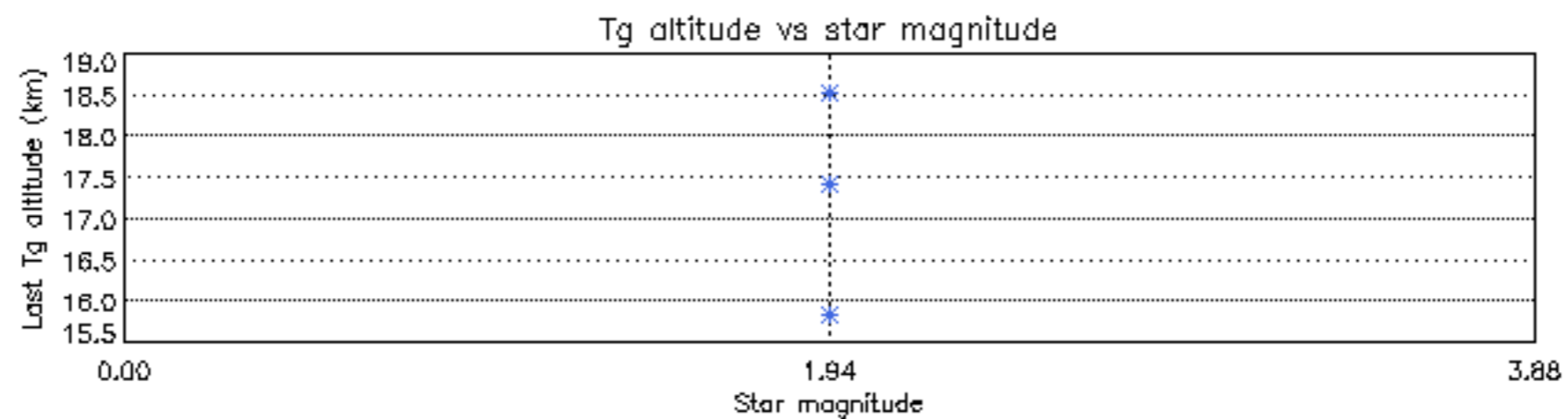
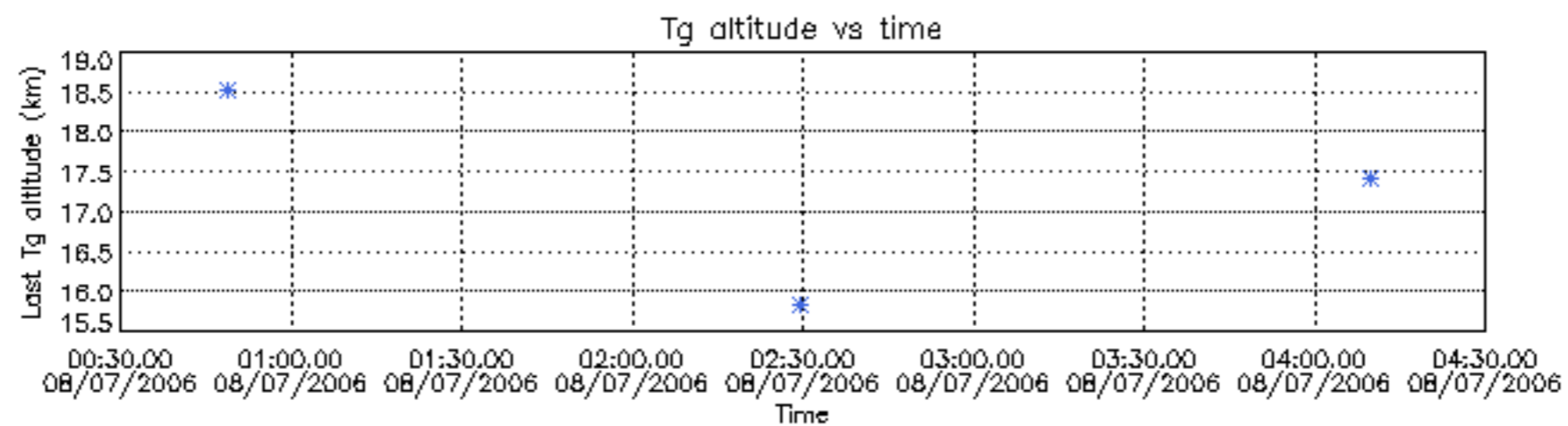
Tangent altitude at which the star is lost

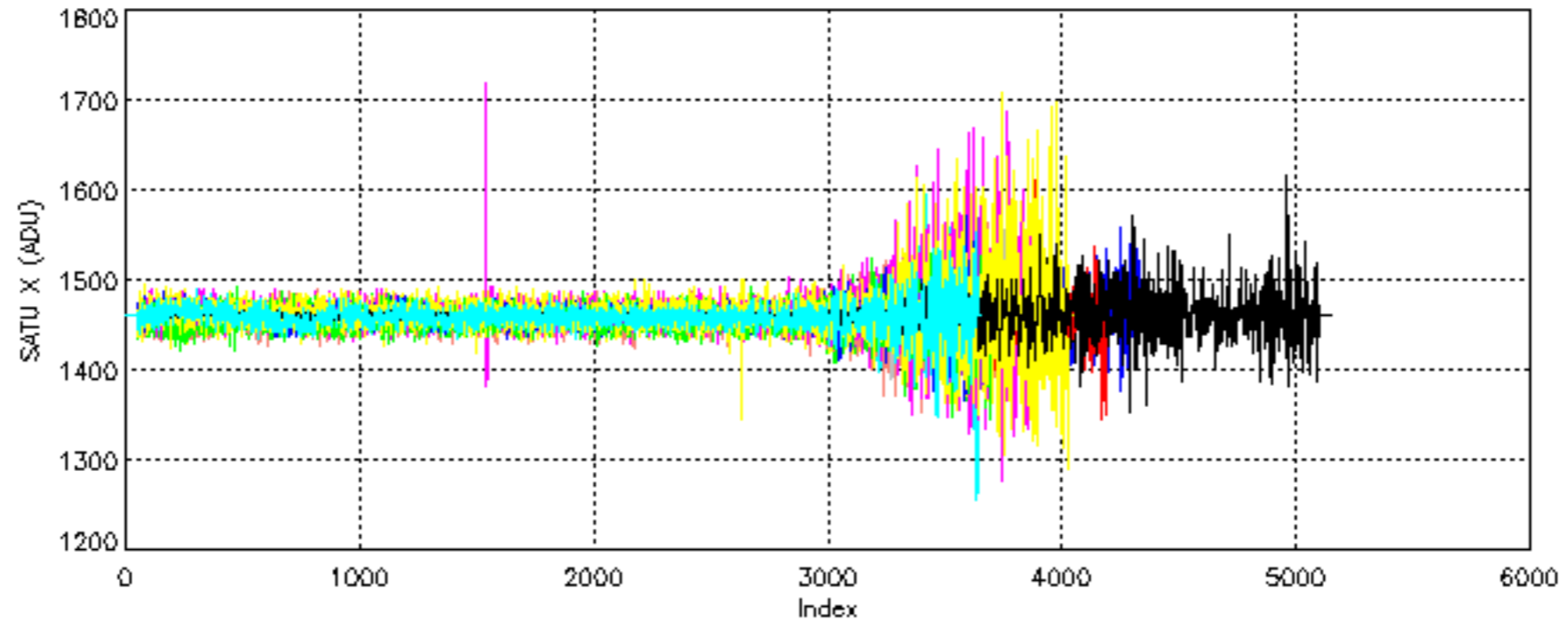


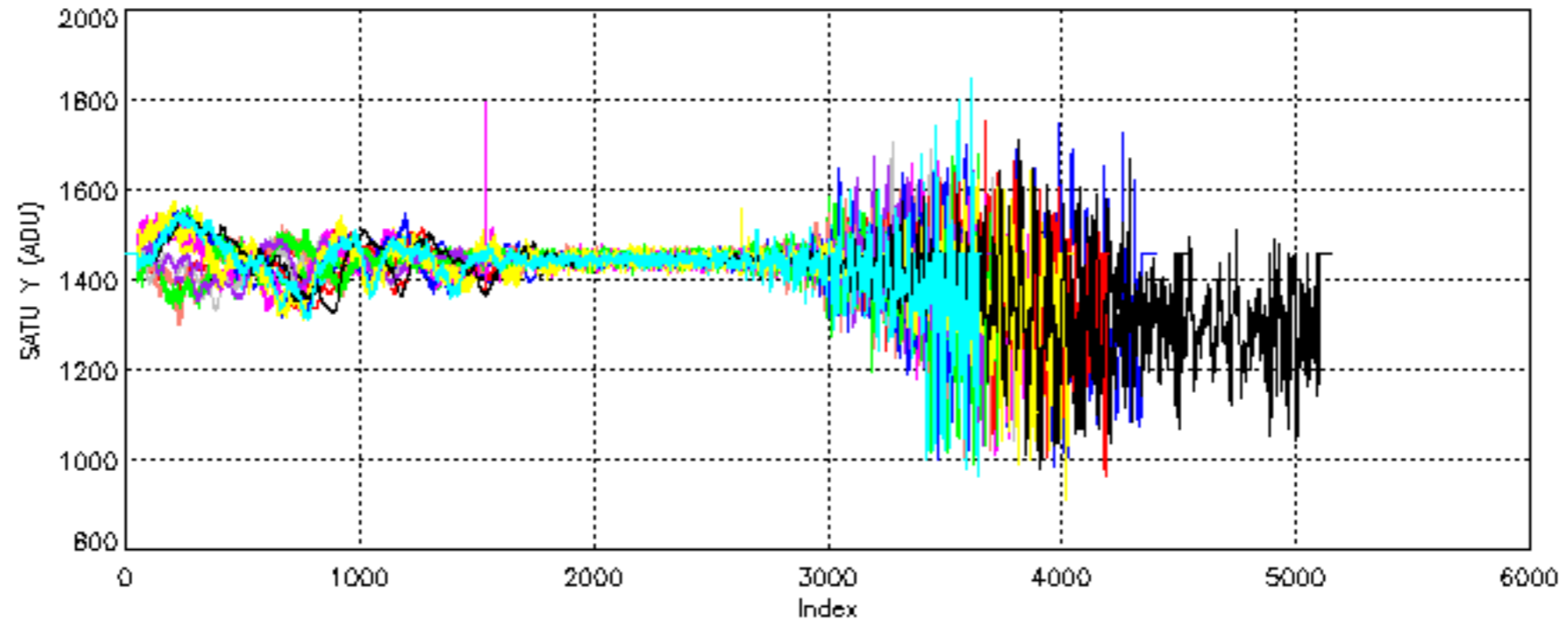
Tangent altitude at which the star is lost

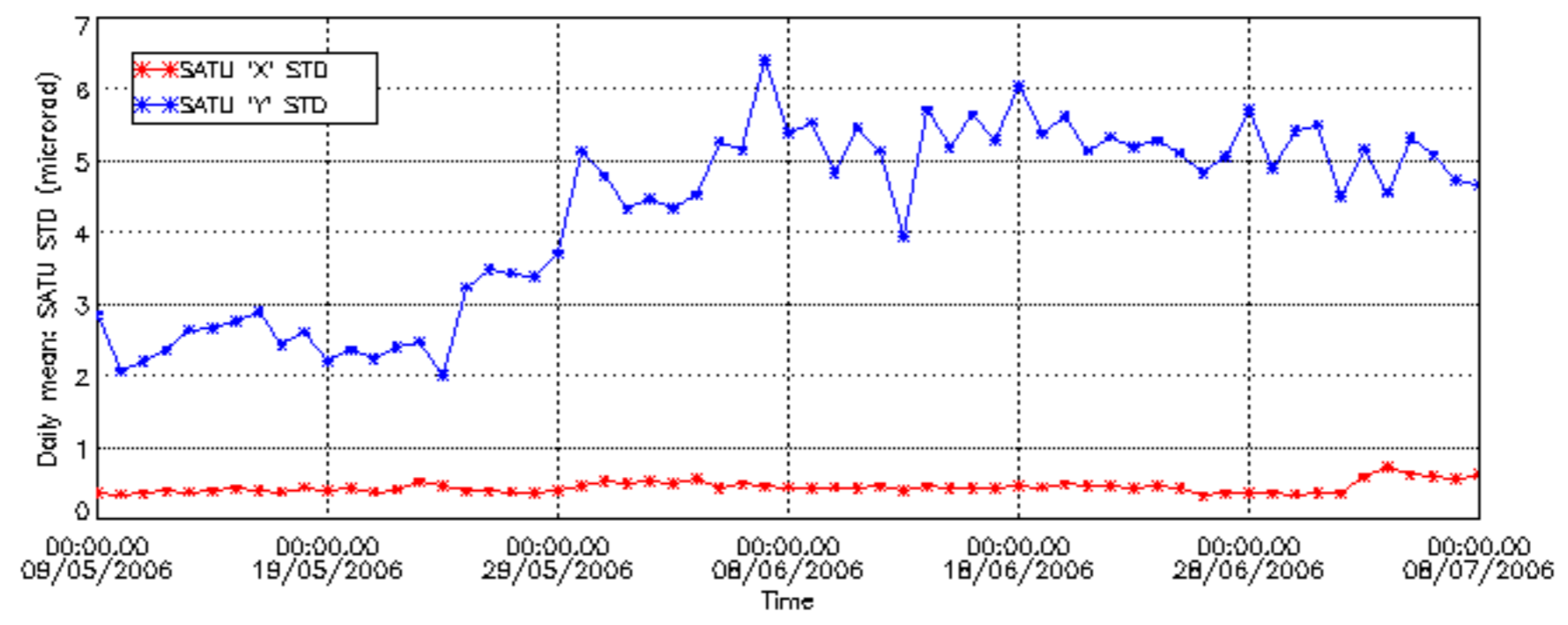


Tangent altitude at which the star is lost









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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
 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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 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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 8; 1270.7; 01-JUL-2006 02:56:47; Dark ; 39.0; 25; 35Lam Sco ; 1.62; 28000;occ; 78; 0;22660
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 13; 2283.4; 01-JUL-2006 03:13:39; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;22660
 14; 2447.9; 01-JUL-2006 03:16:24; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;22660
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 16; 2952.3; 01-JUL-2006 03:24:48; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;22660
 17; 3191.3; 01-JUL-2006 03:28:47; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;22660
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 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
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 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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 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
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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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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
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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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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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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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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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