

GOMOS Daily Report 29-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	31JUL2006 04:32:22
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (29JUL2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (30JUL2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	5

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

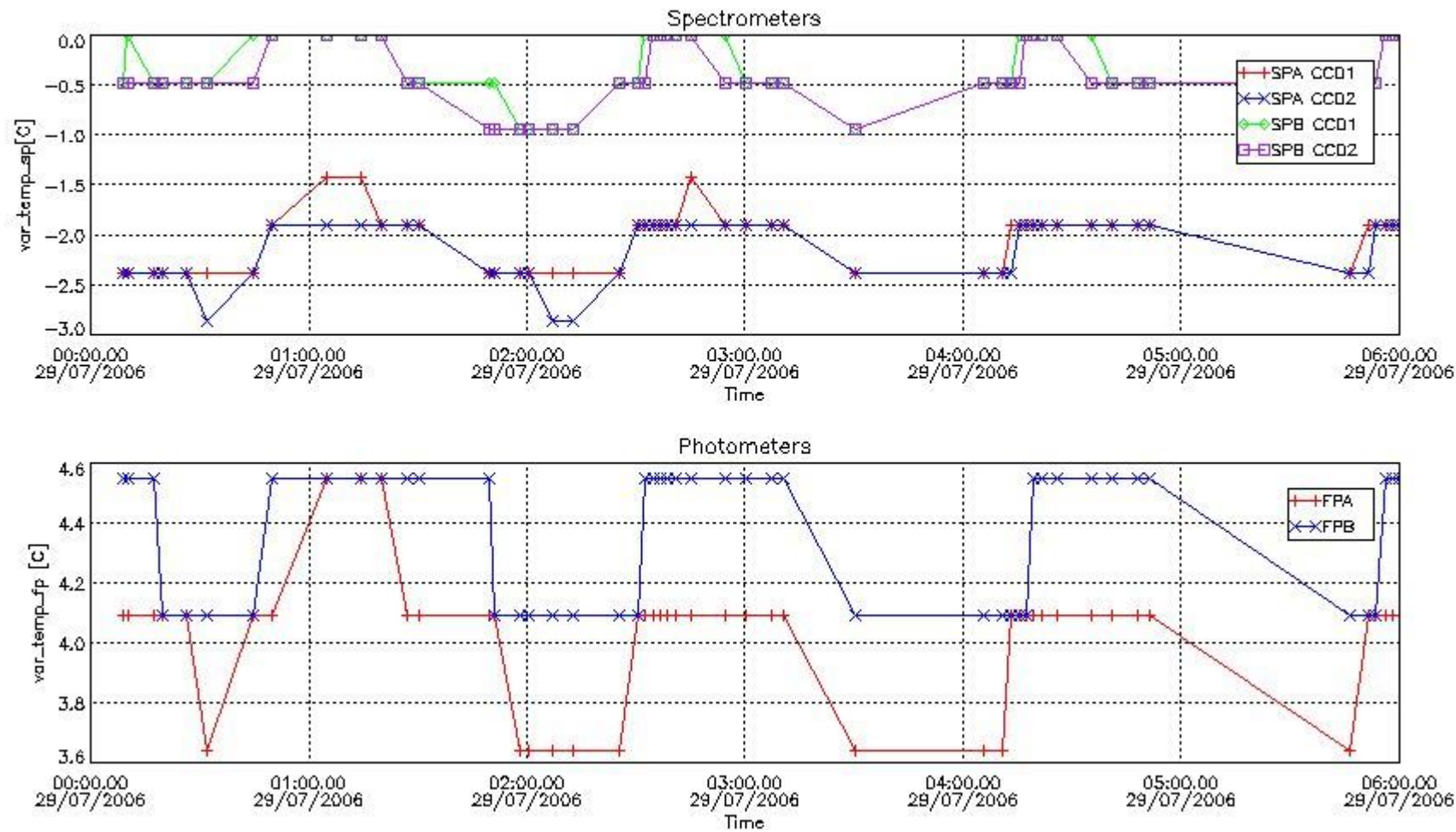
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20060729_000902_000000362049_00460_23059_0005.N1	29-JUL-2006 00:09:02	Bright	35.500	11	53Alp Aql	0.76500	8000.0	71	23059	No
2	GOM_TRA_1PNPDE20060729_001022_000000302049_00460_23059_0006.N1	29-JUL-2006 00:10:22	Bright	30.000	168	17Zet Aql	2.9860	11000.	60	23059	Yes
3	GOM_TRA_1PNPDE20060729_001726_000000352049_00460_23059_0007.N1	29-JUL-2006 00:17:26	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	23059	Yes
4	GOM_TRA_1PNPDE20060729_001944_000000332049_00460_23059_0008.N1	29-JUL-2006 00:19:44	Bright	32.500	144	18Del Cyg	2.8600	11000.	65	23059	No
5	GOM_TRA_1PNPDE20060729_002630_000000342049_00460_23059_0009.N1	29-JUL-2006 00:26:30	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	23059	No
6	GOM_TRA_1PNPDE20060729_003159_000000282049_00460_23059_0010.N1	29-JUL-2006 00:31:59	Bright	27.500	49	1Alp UMi	1.9900	6300.0	55	23059	Yes
7	GOM_TRA_1PNPDE20060729_004438_000000372049_00460_23059_0011.N1	29-JUL-2006 00:44:38	Twilight	37.000	6	13Alp Aur	0.080000	3400.0	74	23059	No
8	GOM_TRA_1PNPDE20060729_004945_000000362049_00460_23059_0012.N1	29-JUL-2006 00:49:45	Twilight	35.500	28	12Bet Tau	1.6500	15200.	71	23059	No
9	GOM_TRA_1PNPDE20060729_010445_000000462049_00460_23059_0000.N1	29-JUL-2006 01:04:45	Dark	45.500	165	34Gam Eri	2.9500	3200.0	91	23059	No
10	GOM_TRA_1PNPDE20060729_011408_000000392049_00460_23059_0001.N1	29-JUL-2006 01:14:08	Dark	39.000	157	The1Eri	2.9060	9300.0	78	23059	No
11	GOM_TRA_1PNPDE20060729_011950_000000382049_00461_23060_0002.N1	29-JUL-2006 01:19:50	Dark	37.500	9	Alp Eri	0.45300	24000.	75	23060	No
12	GOM_TRA_1PNPDE20060729_012652_000000362049_00461_23060_0003.N1	29-JUL-2006 01:26:52	Twilight	35.500	148	Alp Tuc	2.8780	4100.0	71	23060	No
13	GOM_TRA_1PNPDE20060729_013009_000000462049_00461_23060_0004.N1	29-JUL-2006 01:30:09	Bright	45.500	31	Alp Gru	1.7340	15200.	91	23060	No
14	GOM_TRA_1PNPDE20060729_014938_000000332049_00461_23060_0005.N1	29-JUL-2006 01:49:38	Bright	32.500	11	53Alp Aql	0.76500	8000.0	65	23060	No
15	GOM_TRA_1PNPDE20060729_015057_000000292049_00461_23060_0006.N1	29-JUL-2006 01:50:57	Bright	29.000	168	17Zet Aql	2.9860	11000.	58	23060	Yes
16	GOM_TRA_1PNPDE20060729_015802_000000352049_00461_23060_0007.N1	29-JUL-2006 01:58:02	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	23060	Yes
17	GOM_TRA_1PNPDE20060729_020020_000000312049_00461_23060_0008.N1	29-JUL-2006 02:00:20	Bright	30.500	144	18Del Cyg	2.8600	11000.	61	23060	No
18	GOM_TRA_1PNPDE20060729_020706_000000322049_00461_23060_0009.N1	29-JUL-2006 02:07:06	Bright	31.500	89	5Alp Cep	2.4510	8000.0	63	23060	No
19	GOM_TRA_1PNPDE20060729_021235_000000292049_00461_23060_0010.N1	29-JUL-2006 02:12:35	Bright	29.000	49	1Alp UMi	1.9900	6300.0	58	23060	No
20	GOM_TRA_1PNPDE20060729_022514_000000332049_00461_23060_0000.N1	29-JUL-2006 02:25:14	Twilight	33.000	6	13Alp Aur	0.080000	3400.0	66	23060	No
21	GOM_TRA_1PNPDE20060729_023021_000000342049_00461_23060_0001.N1	29-JUL-2006 02:30:21	Twilight	34.000	28	12Bet Tau	1.6500	15200.	68	23060	No
22	GOM_TRA_1PNPDE20060729_023224_000000342049_00461_23060_0002.N1	29-JUL-2006 02:32:24	Twilight	34.000	176	23Zet Tau	3.0200	22000.	68	23060	No
23	GOM_TRA_1PNPDE20060729_023448_000000542049_00461_23060_0003.N1	29-JUL-2006 02:34:48	Twilight	54.000	13	87Alp Tau	0.86700	3800.0	108	23060	No
24	GOM_TRA_1PNPDE20060729_023649_000000332049_00461_23060_0004.N1	29-JUL-2006 02:36:49	Twilight	33.000	27	24Gam Ori	1.6360	26000.	66	23060	No
25	GOM_TRA_1PNPDE20060729_023844_000000322049_00461_23060_0005.N1	29-JUL-2006 02:38:44	Twilight	31.500	30	46Eps Ori	1.6940	30000.	63	23060	No
26	GOM_TRA_1PNPDE20060729_024108_000000372049_00461_23060_0006.N1	29-JUL-2006 02:41:08	Dark	36.500	7	19Bet Ori	0.10000	14000.	73	23060	No
27	GOM_TRA_1PNPDE20060729_024522_000000392049_00461_23060_0007.N1	29-JUL-2006 02:45:22	Dark	39.000	165	34Gam Eri	2.9500	3200.0	78	23060	No
28	GOM_TRA_1PNPDE20060729_025445_000000382049_00461_23060_0008.N1	29-JUL-2006 02:54:45	Dark	37.500	157	The1Eri	2.9060	9300.0	75	23060	No
29	GOM_TRA_1PNPDE20060729_030027_000000382049_00462_23061_0009.N1	29-JUL-2006 03:00:27	Dark	38.000	9	Alp Eri	0.45300	24000.	76	23061	No
30	GOM_TRA_1PNPDE20060729_030728_000000332049_00462_23061_0010.N1	29-JUL-2006 03:07:28	Twilight	32.500	148	Alp Tuc	2.8780	4100.0	65	23061	No
31	GOM_TRA_1PNPDE20060729_031046_000000382049_00462_23061_0011.N1	29-JUL-2006 03:10:46	Twilight	37.500	31	Alp Gru	1.7340	15200.	75	23061	No
32	GOM_TRA_1PNPDE20060729_033014_000000332049_00462_23061_0012.N1	29-JUL-2006 03:30:14	Bright	32.500	11	53Alp Aql	0.76500	8000.0	65	23061	No
33	GOM_TRA_1PNPDE20060729_040550_000000342049_00462_23061_0000.N1	29-JUL-2006 04:05:50	Twilight	33.500	6	13Alp Aur	0.080000	3400.0	67	23061	No
34	GOM_TRA_1PNPDE20060729_041057_000000372049_00462_23061_0001.N1	29-JUL-2006 04:10:57	Twilight	36.500	28	12Bet Tau	1.6500	15200.	73	23061	No
35	GOM_TRA_1PNPDE20060729_041300_000000342049_00462_23061_0002.N1	29-JUL-2006 04:13:00	Twilight	33.500	176	23Zet Tau	3.0200	22000.	67	23061	No
36	GOM_TRA_1PNPDE20060729_041524_000000422049_00462_23061_0003.N1	29-JUL-2006 04:15:24	Twilight	41.500	13	87Alp Tau	0.86700	3800.0	83	23061	No
37	GOM_TRA_1PNPDE20060729_041725_000000342049_00462_23061_0004.N1	29-JUL-2006 04:17:25	Twilight	33.500	27	24Gam Ori	1.6360	26000.	67	23061	No
38	GOM_TRA_1PNPDE20060729_041920_000000322049_00462_23061_0005.N1	29-JUL-2006 04:19:20	Twilight	32.000	30	46Eps Ori	1.6940	30000.	64	23061	No
39	GOM_TRA_1PNPDE20060729_042144_000000402049_00462_23061_0006.N1	29-JUL-2006 04:21:44	Dark	40.000	7	19Bet Ori	0.10000	14000.	80	23061	No
40	GOM_TRA_1PNPDE20060729_042559_000000392049_00462_23061_0007.N1	29-JUL-2006 04:25:59	Dark	39.000	165	34Gam Eri	2.9500	3200.0	78	23061	No
41	GOM_TRA_1PNPDE20060729_043522_000000392049_00462_23061_0008.N1	29-JUL-2006 04:35:22	Dark	39.000	157	The1Eri	2.9060	9300.0	78	23061	No
42	GOM_TRA_1PNPDE20060729_044103_000000372049_00463_23062_0009.N1	29-JUL-2006 04:41:03	Dark	36.500	9	Alp Eri	0.45300	24000.	73	23062	No

43	GOM_TRA_1PNPDE20060729_044805_000000352049_00463_23062_0010.N1	29-JUL-2006 04:48:05	Twilight	34.500	148	Alp Tuc	2.8780	4100.0	69	23062	No
44	GOM_TRA_1PNPDE20060729_045122_000000432049_00463_23062_0011.N1	29-JUL-2006 04:51:22	Bright	42.500	31	Alp Gru	1.7340	15200.	85	23062	No
45	GOM_TRA_1PNPDE20060729_054626_000000342049_00463_23062_0000.N1	29-JUL-2006 05:46:26	Twilight	33.500	6	13Alp Aur	0.080000	3400.0	67	23062	No
46	GOM_TRA_1PNPDE20060729_055134_000000462049_00463_23062_0001.N1	29-JUL-2006 05:51:34	Twilight	46.000	28	12Bet Tau	1.6500	15200.	92	23062	No
47	GOM_TRA_1PNPDE20060729_055336_000000352049_00463_23062_0002.N1	29-JUL-2006 05:53:36	Twilight	34.500	176	23Zet Tau	3.0200	22000.	69	23062	No
48	GOM_TRA_1PNPDE20060729_055600_000000412049_00463_23062_0003.N1	29-JUL-2006 05:56:00	Twilight	40.500	13	87Alp Tau	0.86700	3800.0	81	23062	No
49	GOM_TRA_1PNPDE20060729_055802_000000332049_00463_23062_0004.N1	29-JUL-2006 05:58:02	Twilight	33.000	27	24Gam Ori	1.6360	26000.	66	23062	No
50	GOM_TRA_1PNPDE20060729_055957_000000332049_00463_23062_0005.N1	29-JUL-2006 05:59:57	Twilight	33.000	30	46Eps Ori	1.6940	30000.	66	23062	No

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



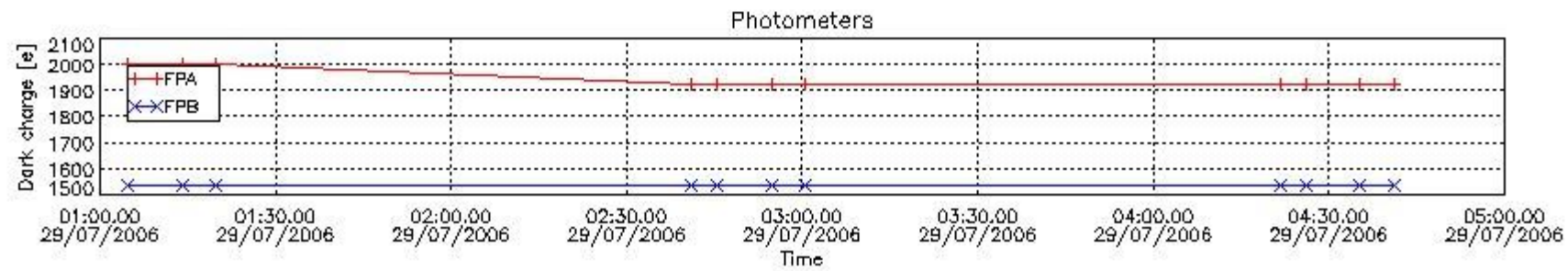
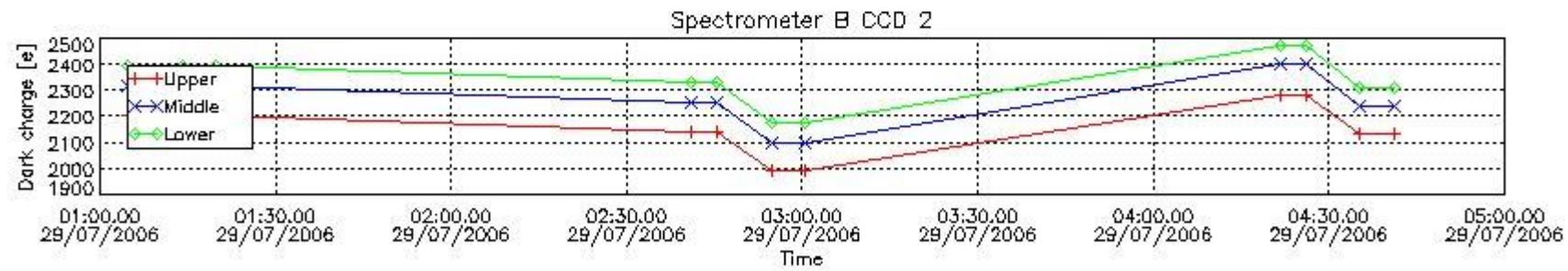
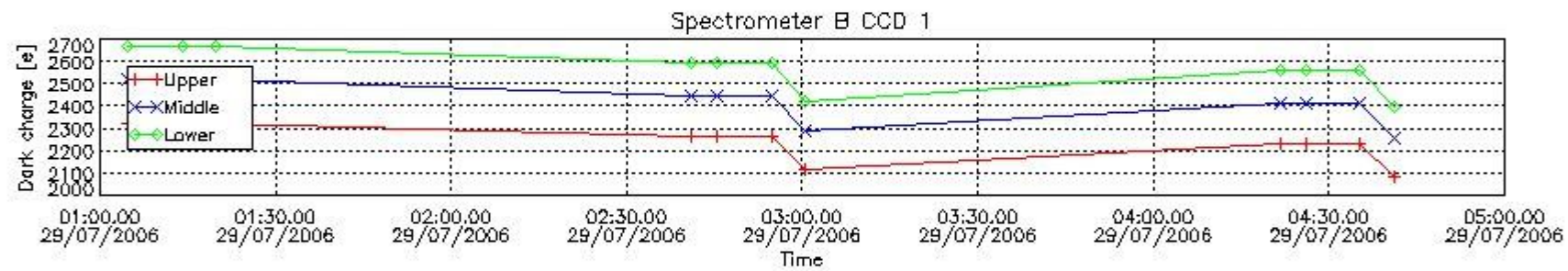
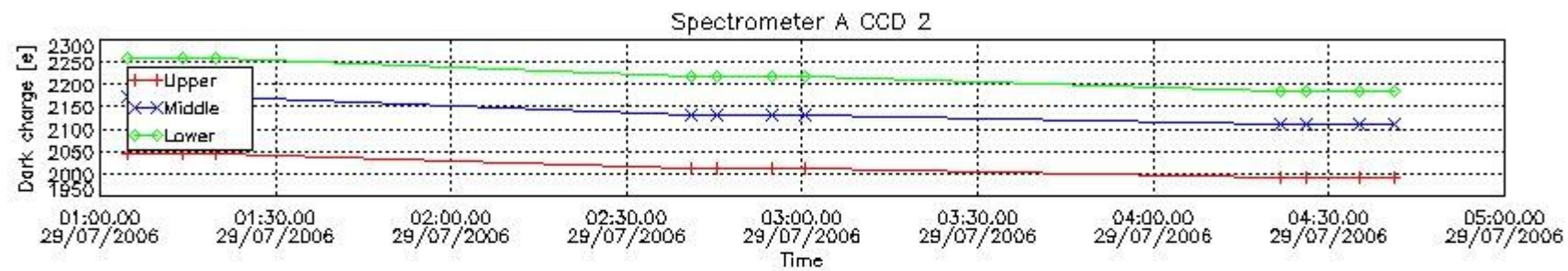
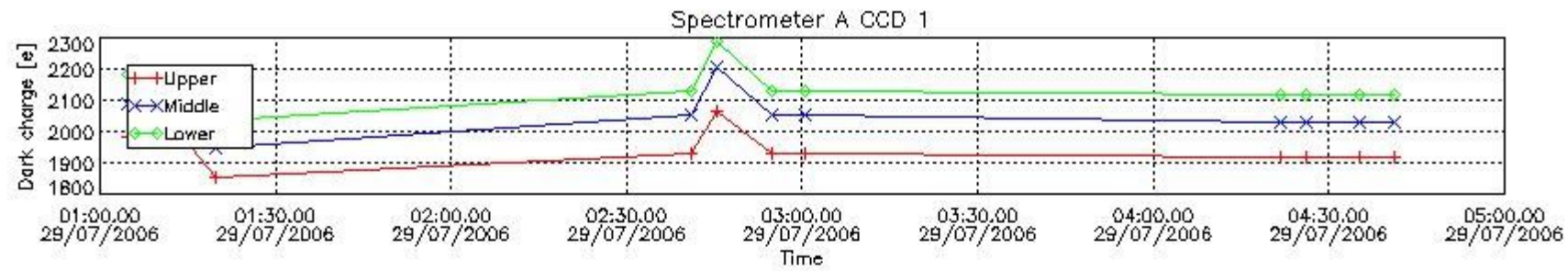
4. Overview of dark signal processing per product

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



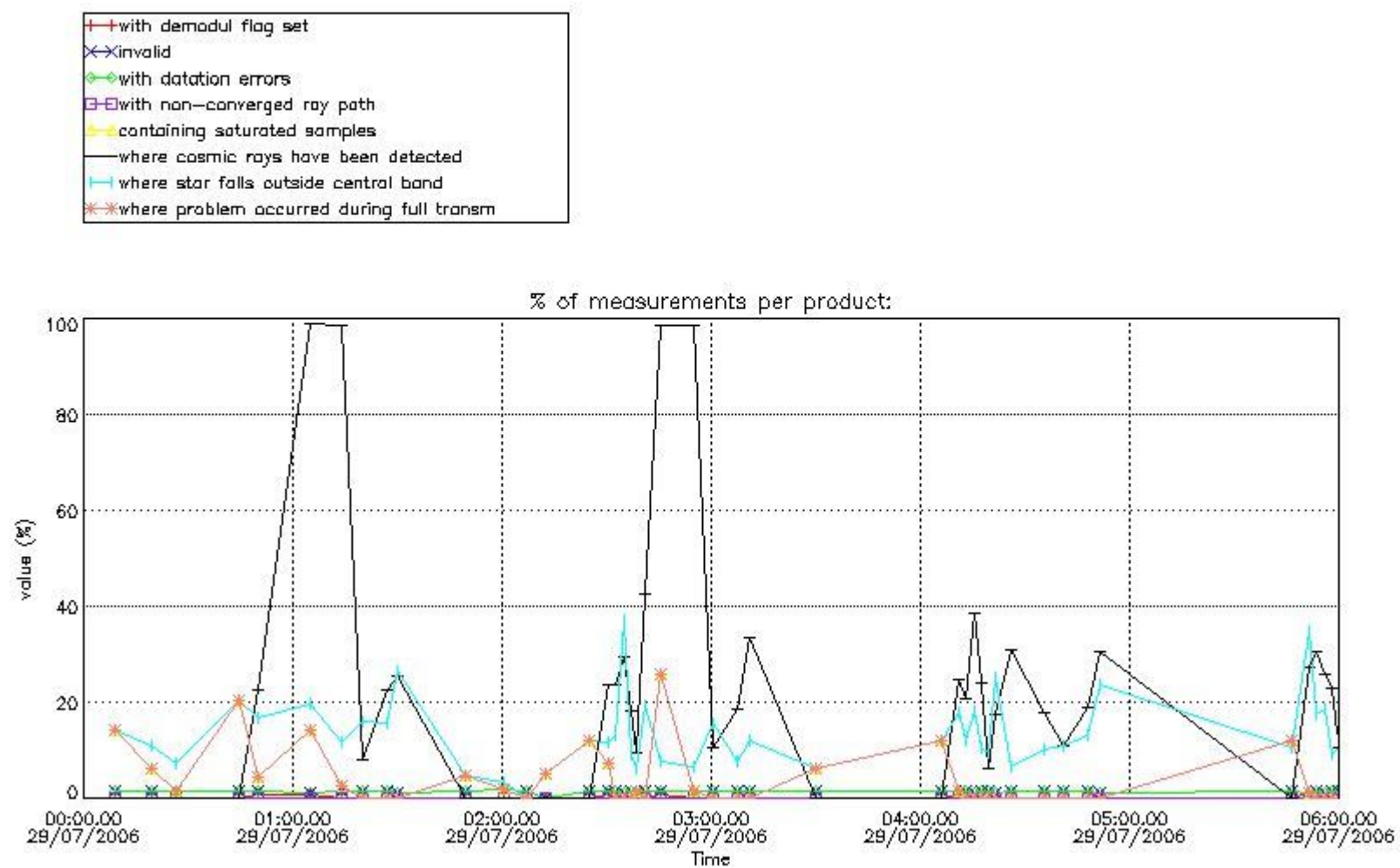
5. Demodulation flag and quality information monitoring

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.

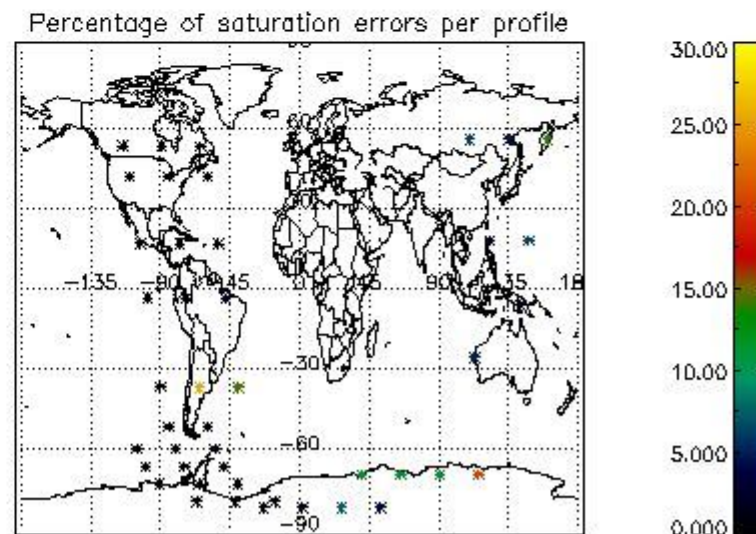
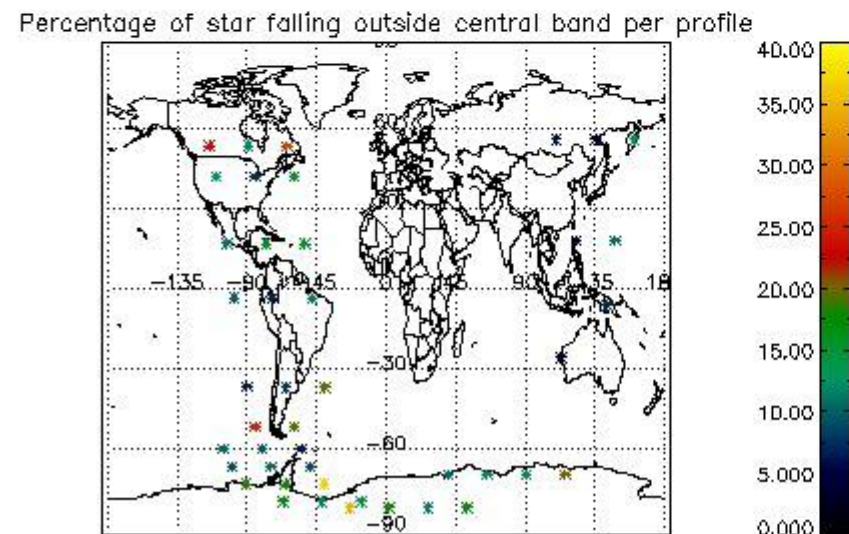
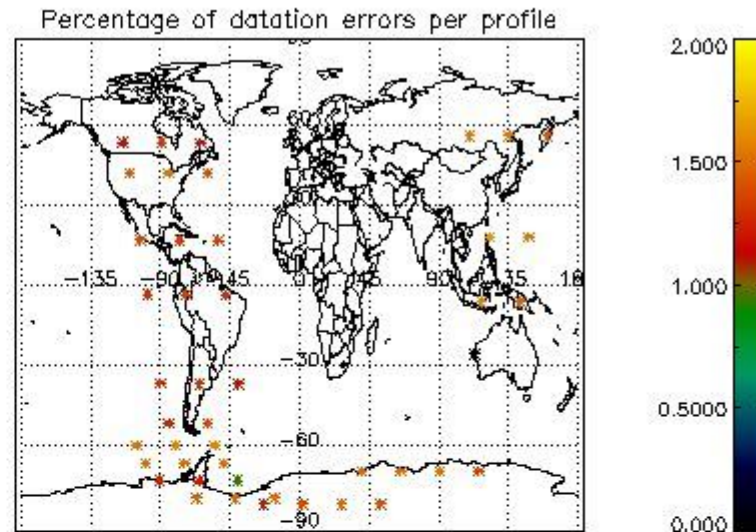
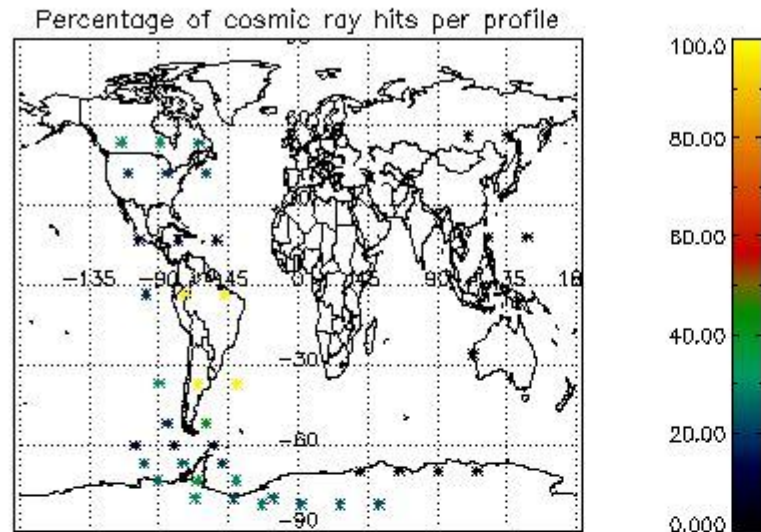
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.6667 %
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)



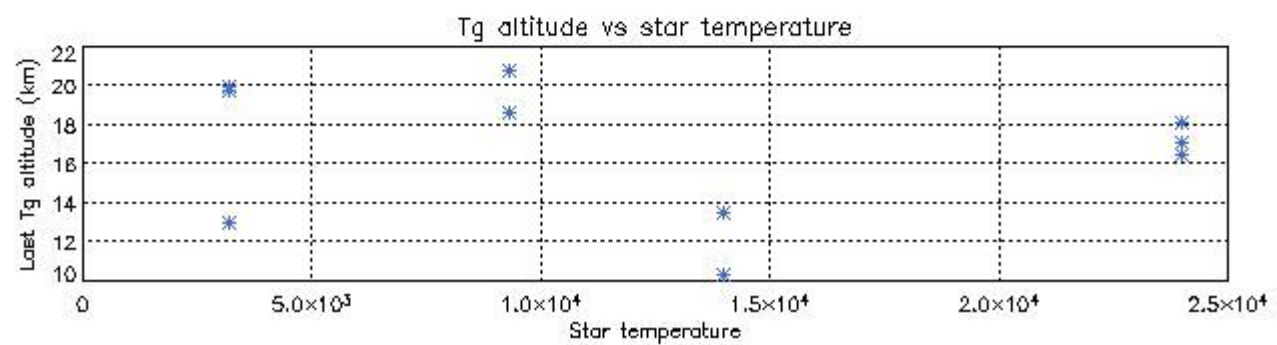
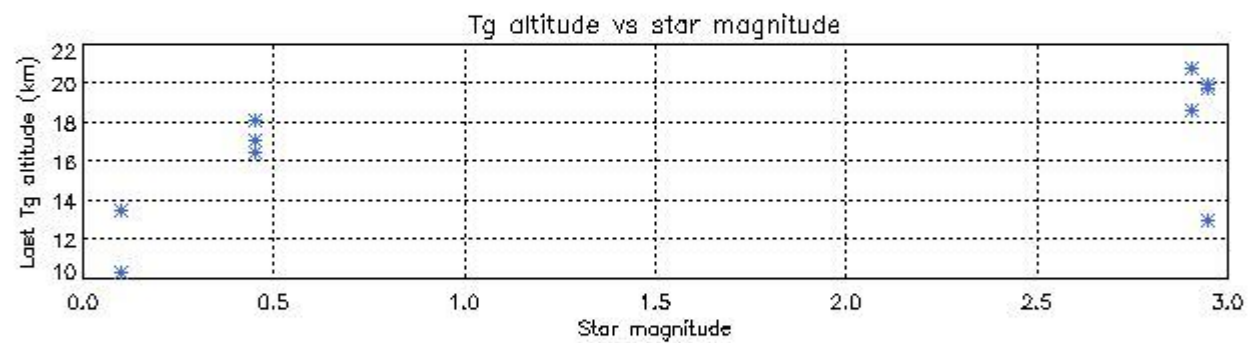
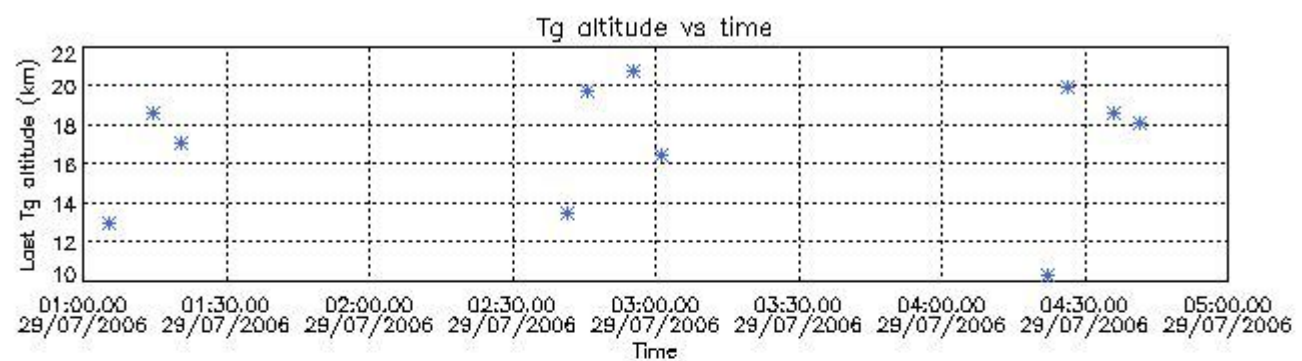
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.930	19.818	15.818
St. deviation:	3.3200	5.3374	3.7095
Maximum:	20.775	26.884	20.763
Minimum:	10.329	10.011	4.6841
Number of data:	11.000	10.000	24.000

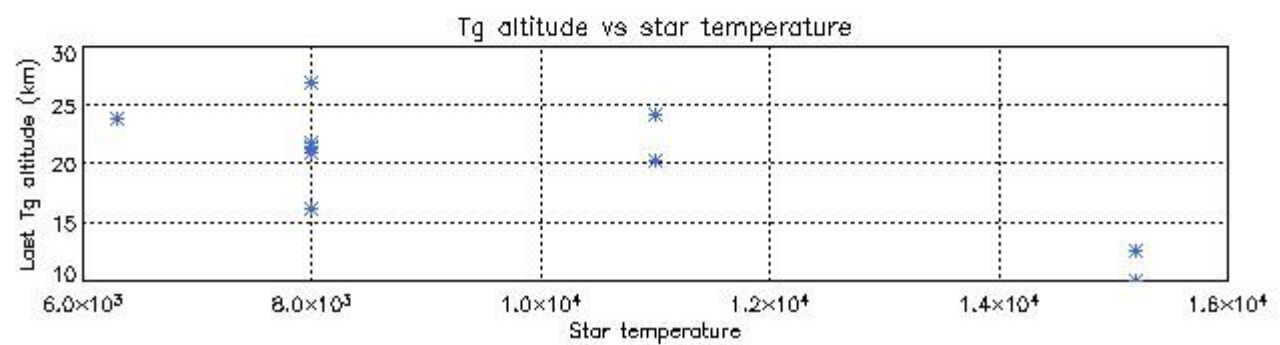
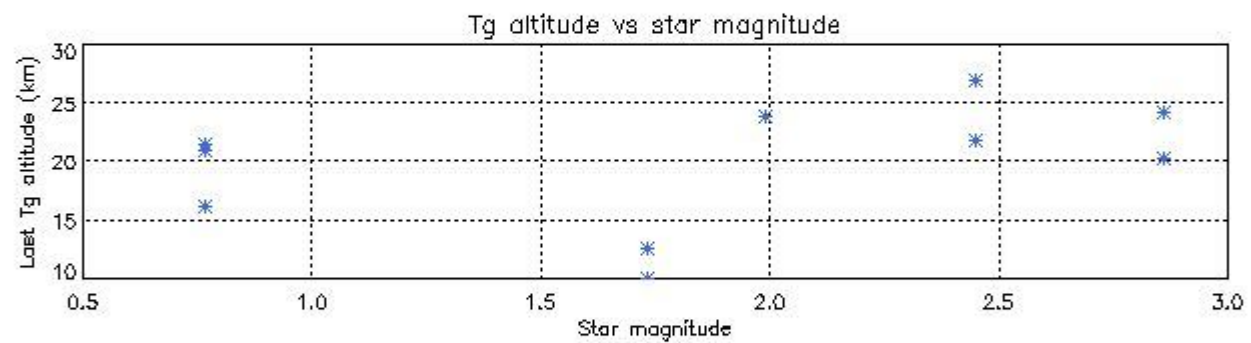
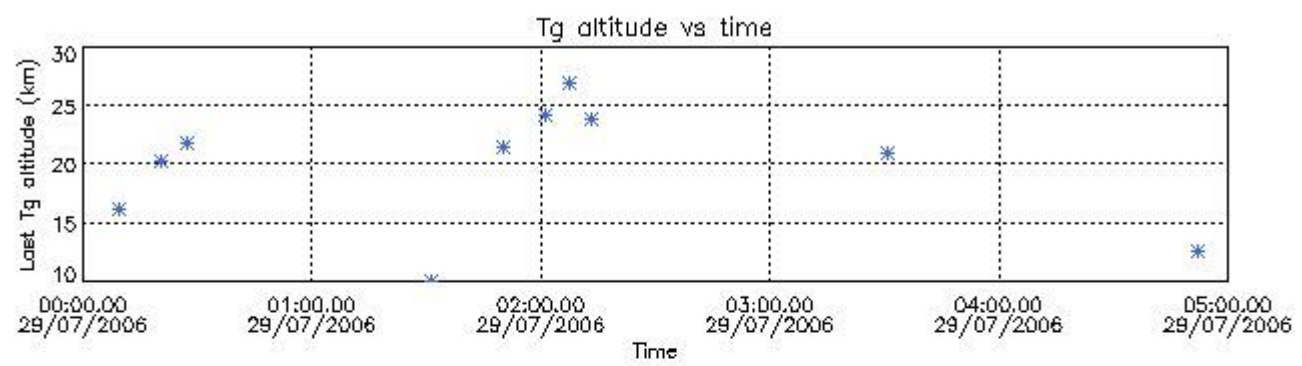
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



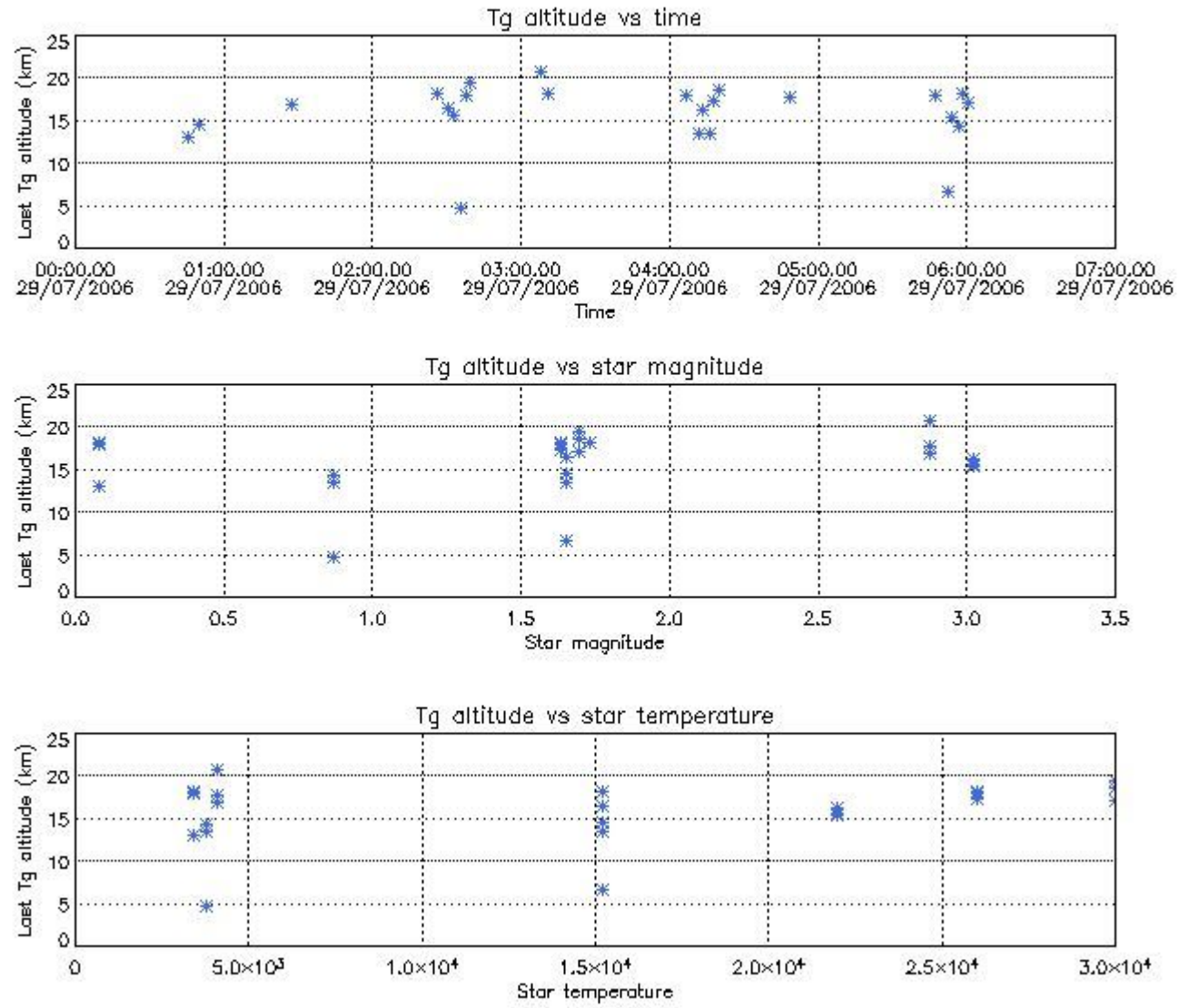
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

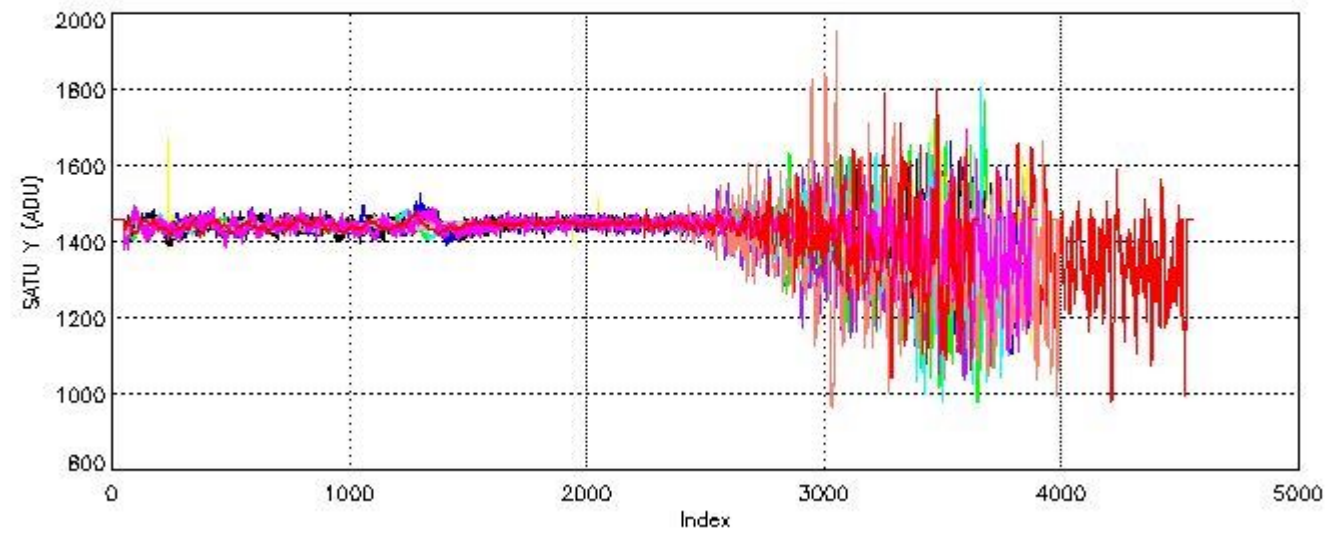
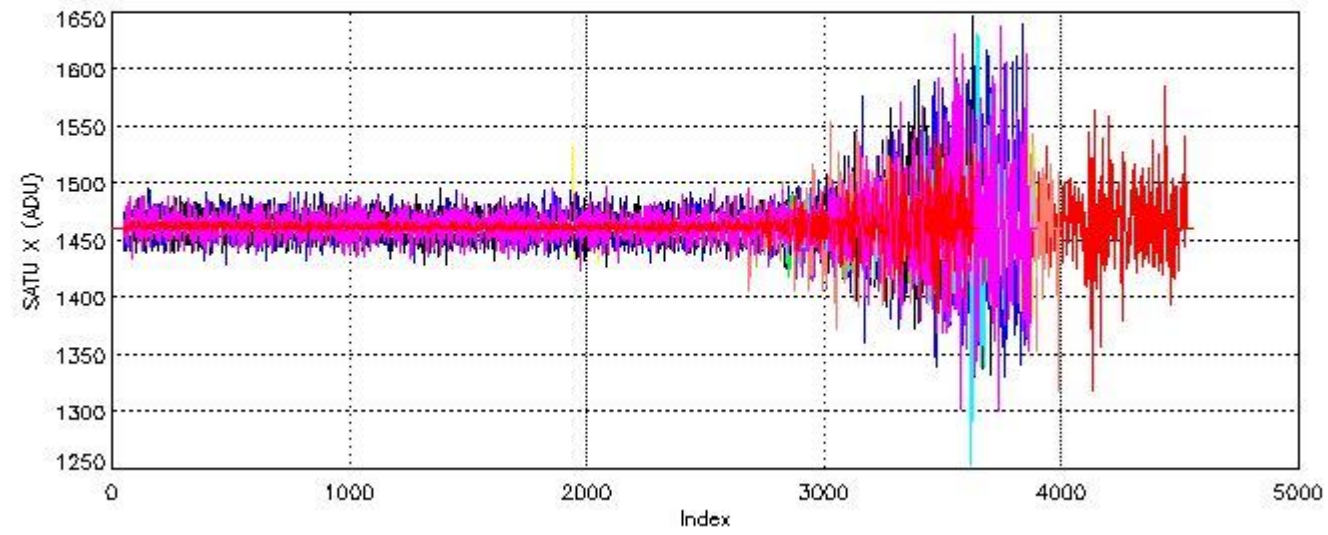


7. Star Acquisition and Tracking Unit (SATU)

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.

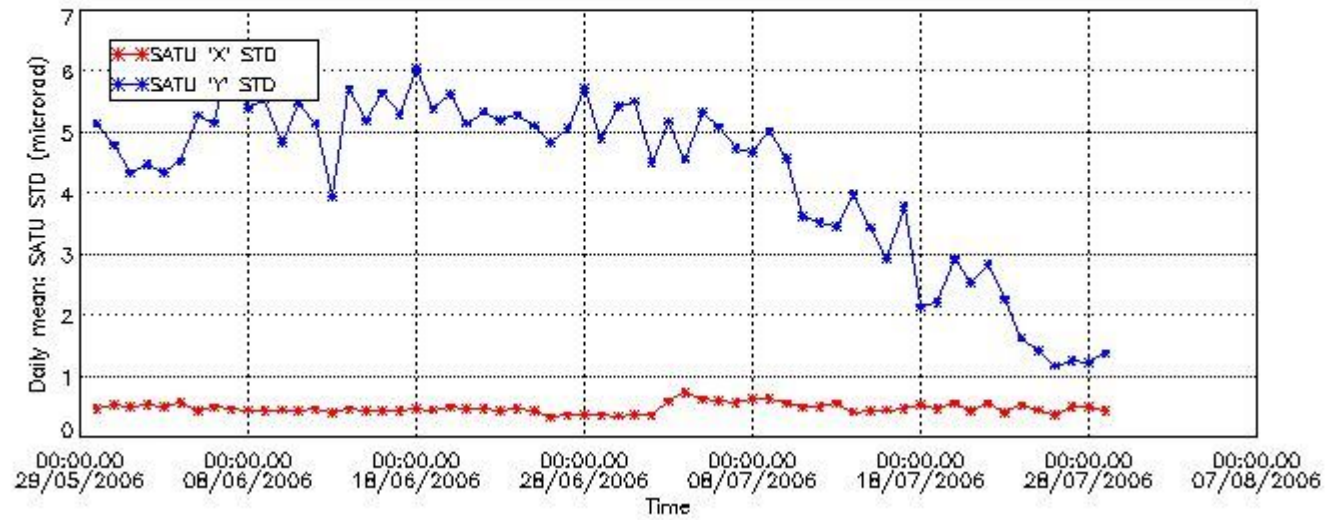
7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.3	1443.7	1462.7	1444.9
St. deviation:	4.3298	13.704	6.6717	14.692
Maximum:	1496.0	1669.0	1507.0	1492.0
Minimum:	1457.0	1413.0	1452.0	1405.0

Number of data:	4600.0	4600.0	3000.0	3000.0
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7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

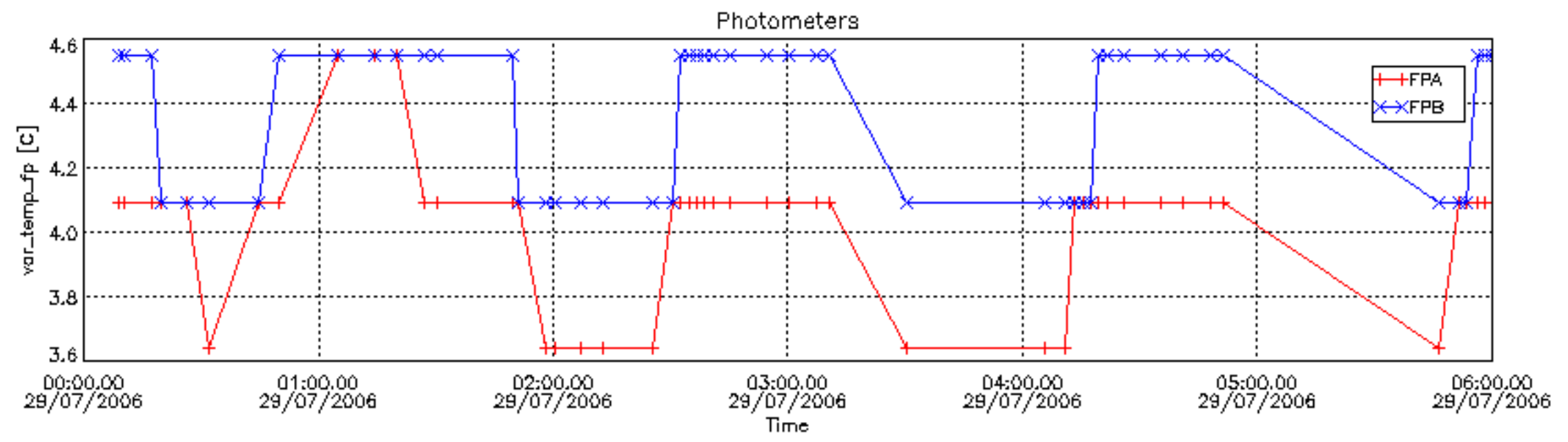
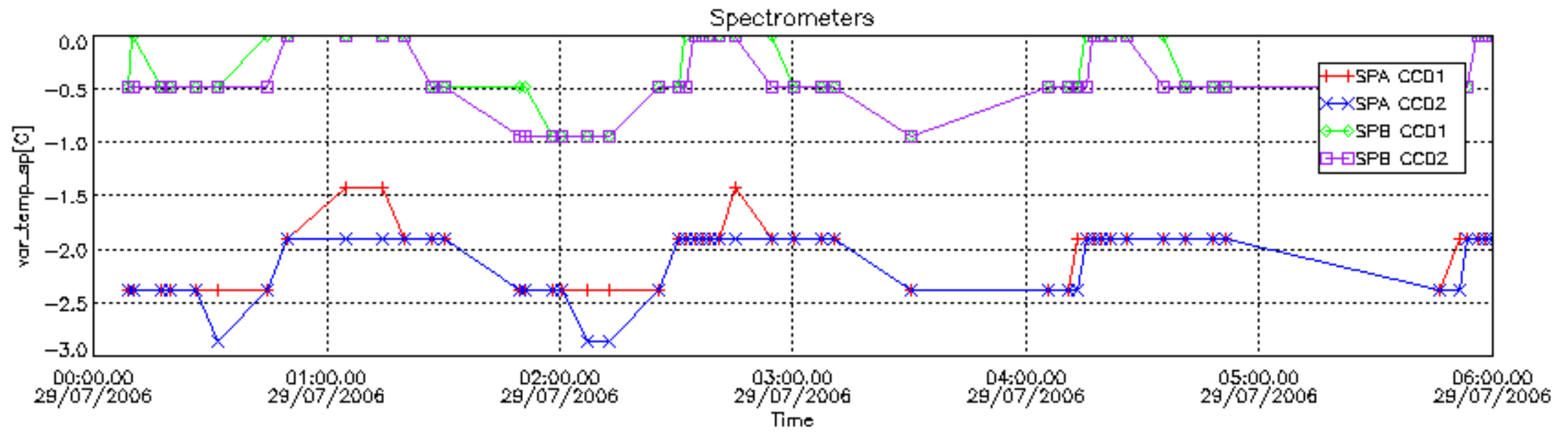
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

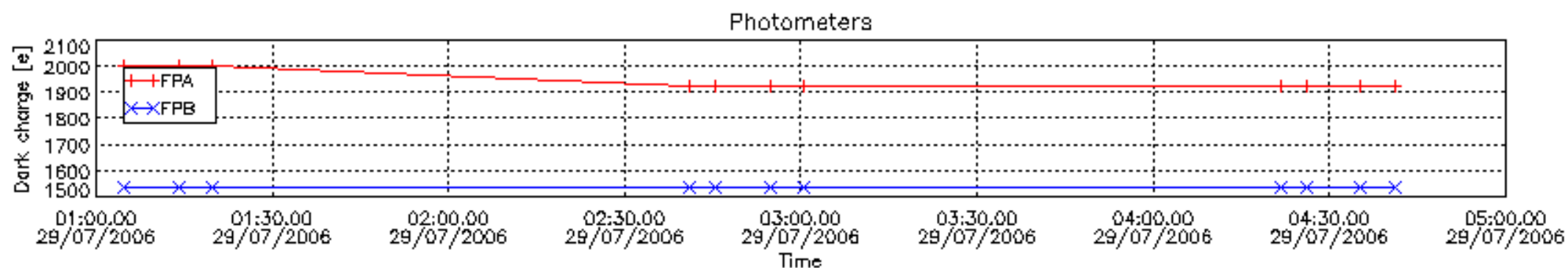
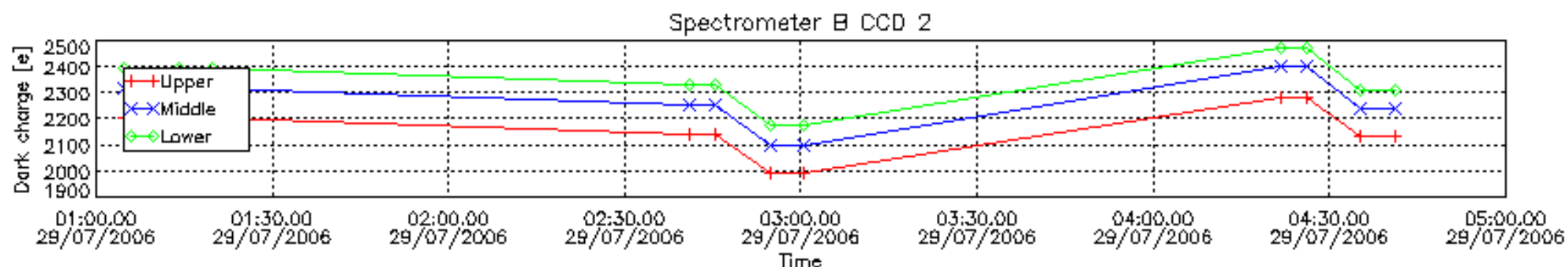
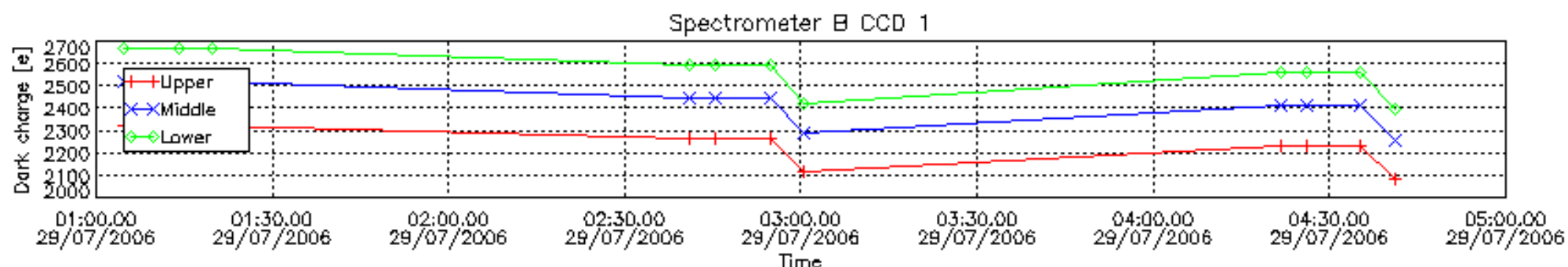
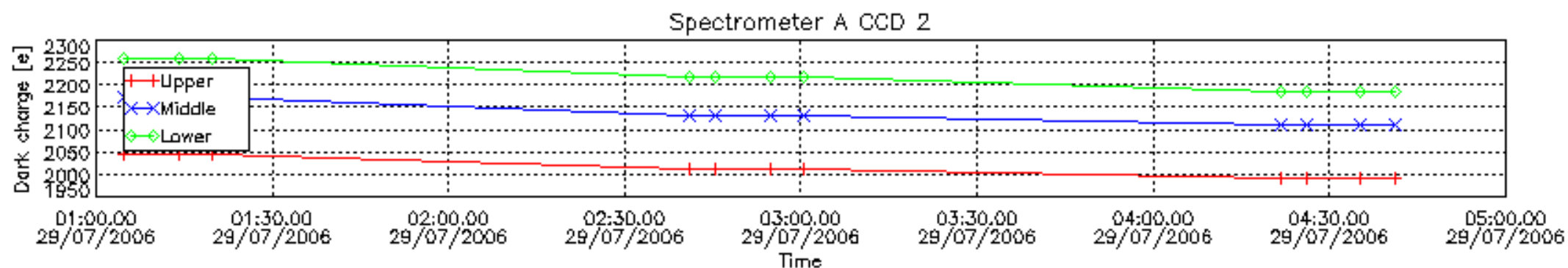
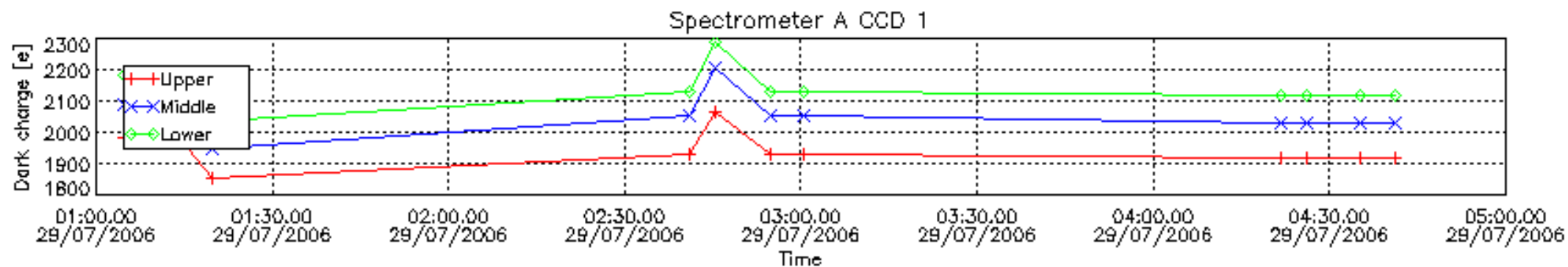


8. Auxiliary Data Files used for the production reported in section 2.2

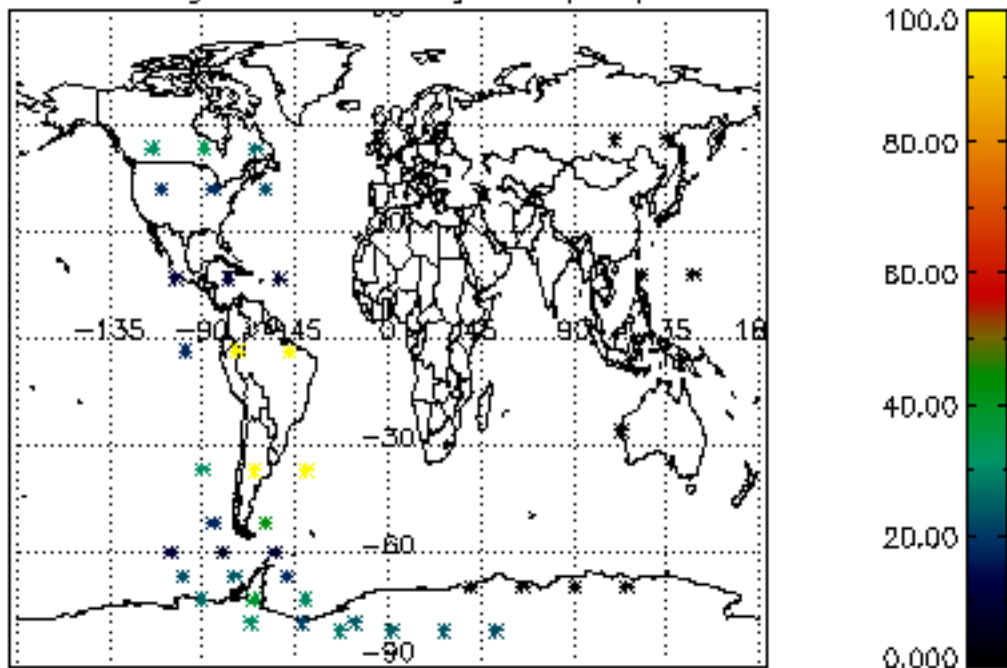
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	29-JUL-2006 00:09:02
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060725_102635_20060724_000000_20100101_000000	1	29-JUL-2006 00:09:02
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	29-JUL-2006 00:09:02
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-JUL-2006 00:09:02
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	29-JUL-2006 00:09:02
ECMWF_FILE	AUX_ECF_AXNECM20060728_062955_20060728_210000_20060729_090000	1	29-JUL-2006 00:09:02
ECMWF_FILE	AUX_ECA_AXNECM20060729_060924_20060728_210000_20060729_090000	13	29-JUL-2006 01:30:09
ECMWF_FILE	AUX_ECF_AXNECM20060728_062955_20060728_210000_20060729_090000	20	29-JUL-2006 02:25:14
ECMWF_FILE	AUX_ECF_AXNECM20060728_181832_20060729_030000_20060729_150000	33	29-JUL-2006 04:05:50
OPTIONAL_ECMWF_FILE	NOT USED	1	29-JUL-2006 00:09:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060728_213550_000060562049_00458_23057_0225.N1	1	29-JUL-2006 00:09:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060728_232206_000057382049_00459_23058_0226.N1	9	29-JUL-2006 01:04:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060729_010303_000038252049_00460_23059_0228.N1	13	29-JUL-2006 01:30:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060729_021207_000057382049_00461_23060_0229.N1	20	29-JUL-2006 02:25:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060729_035304_000057382049_00462_23061_0230.N1	33	29-JUL-2006 04:05:50

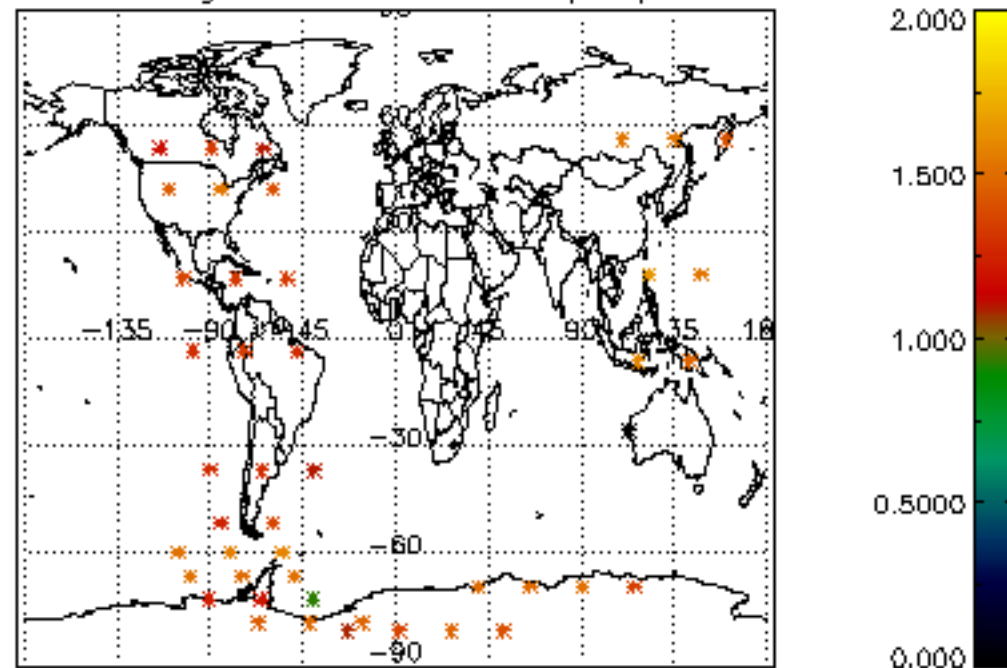




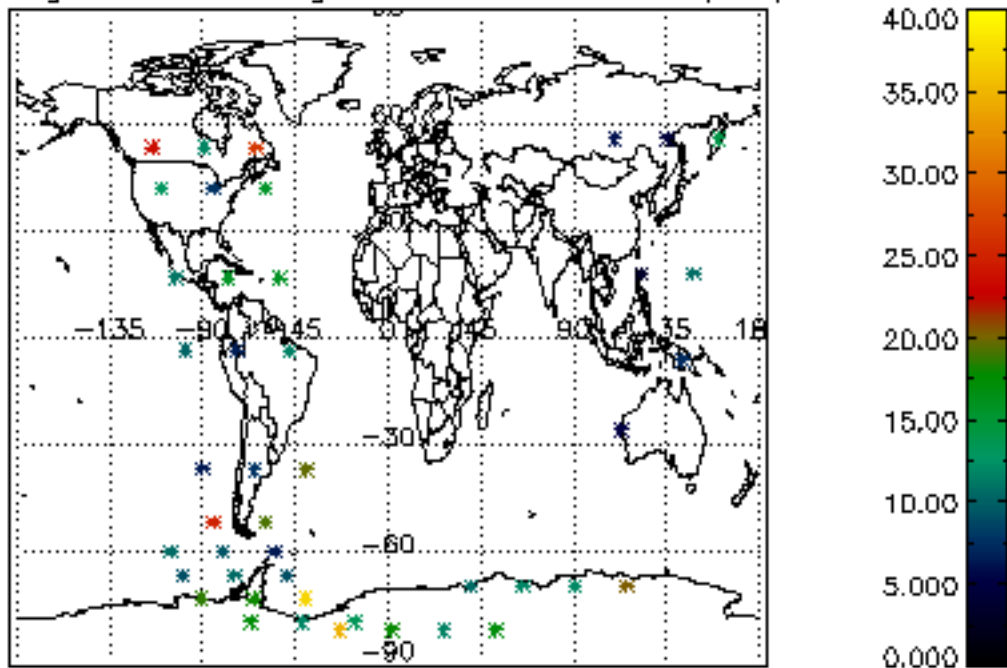
Percentage of cosmic ray hits per profile



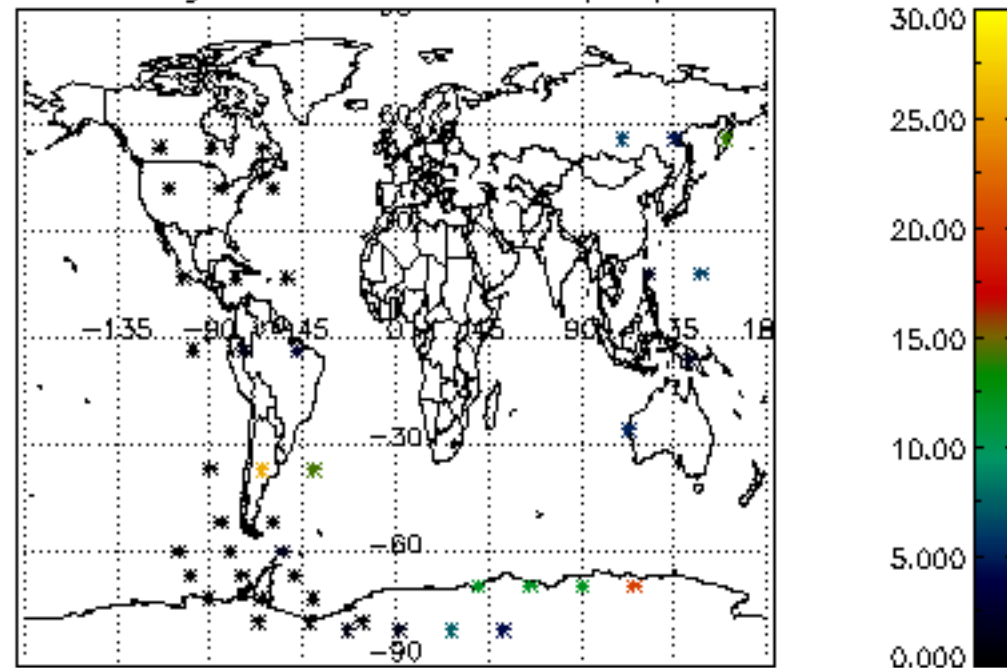
Percentage of datation errors per profile



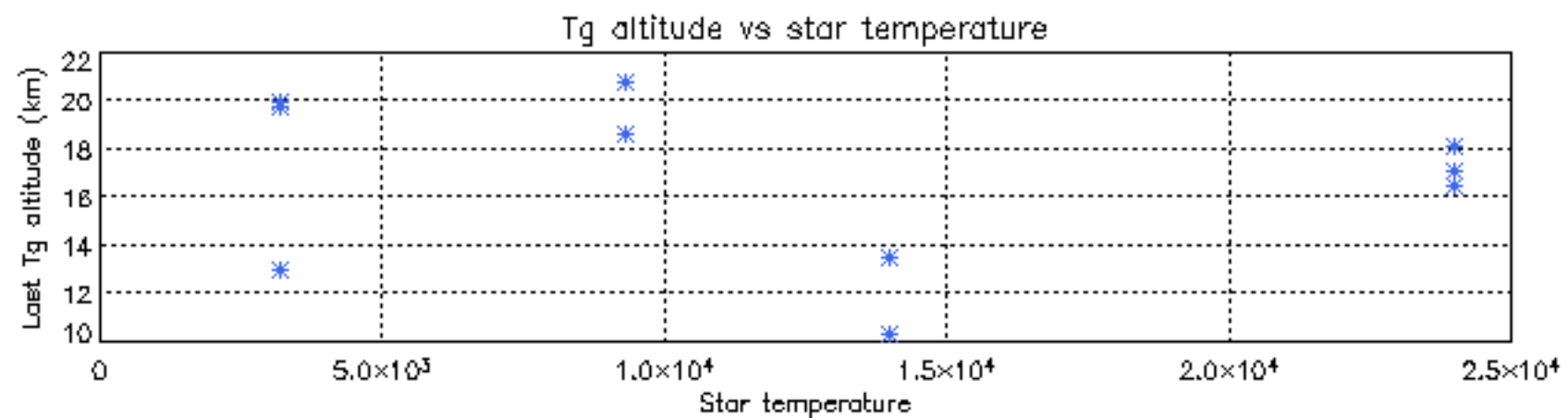
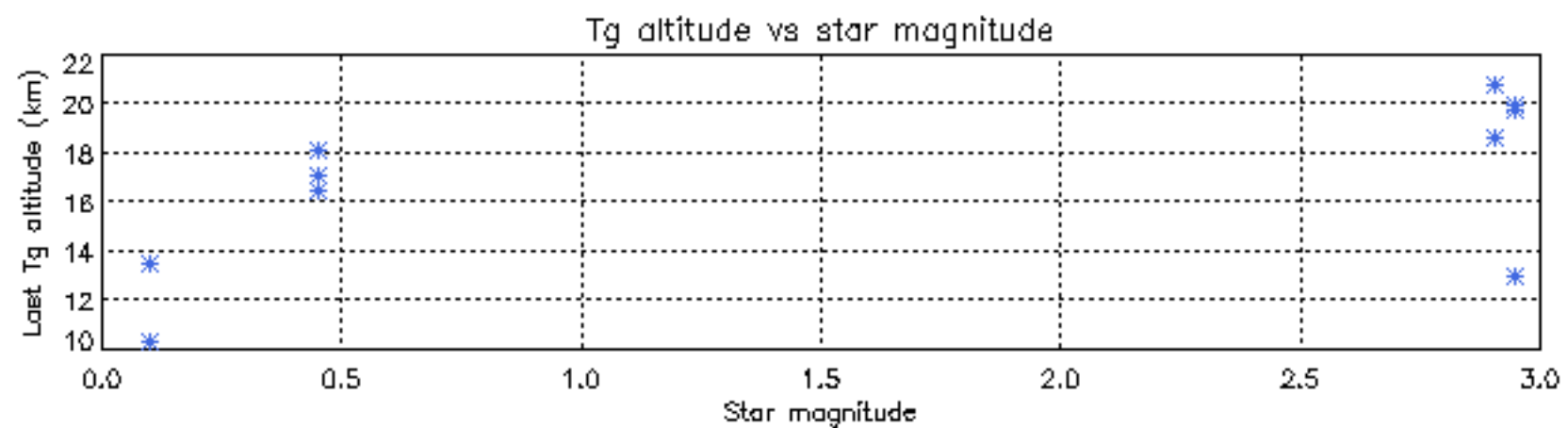
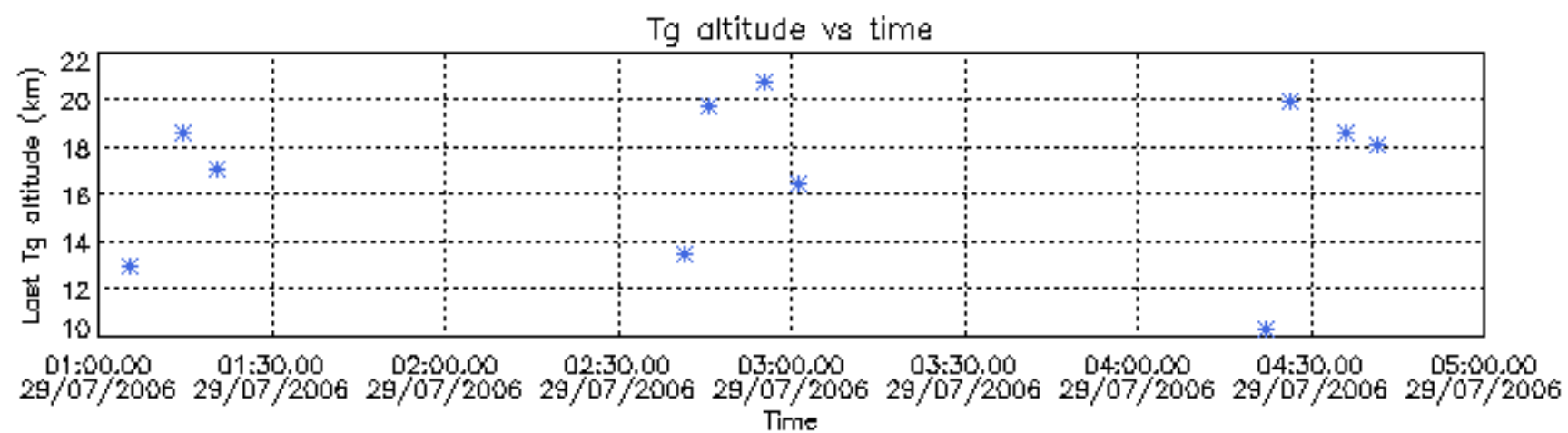
Percentage of star falling outside central band per profile



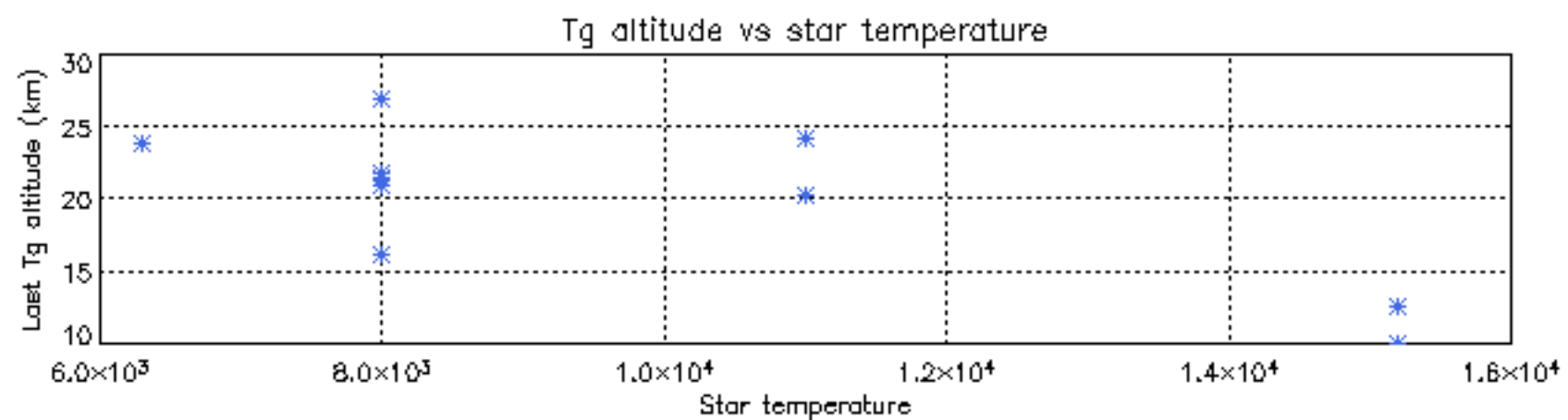
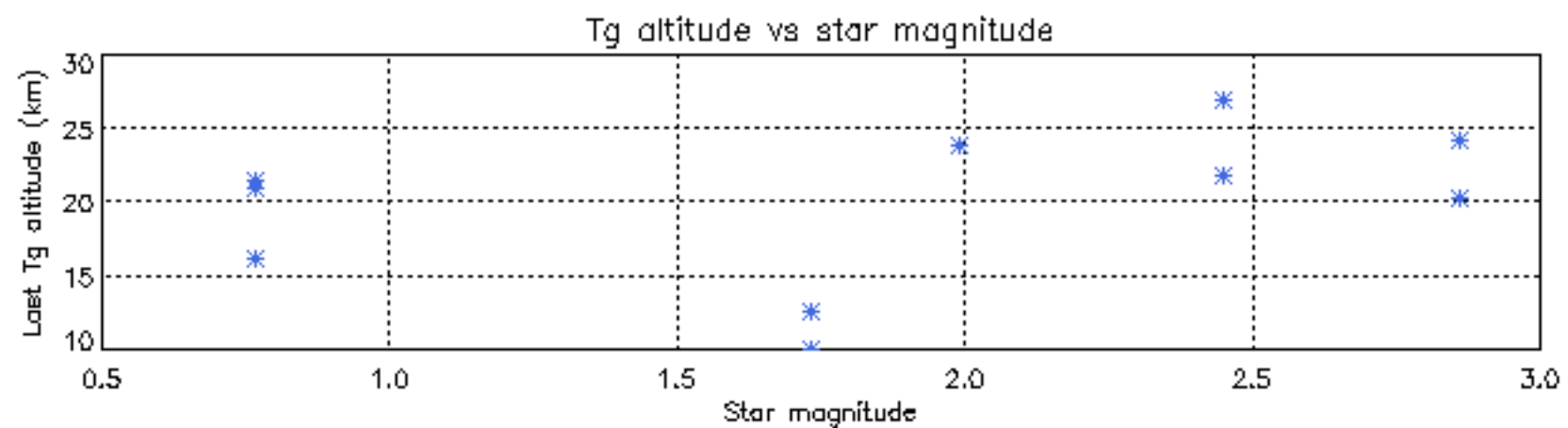
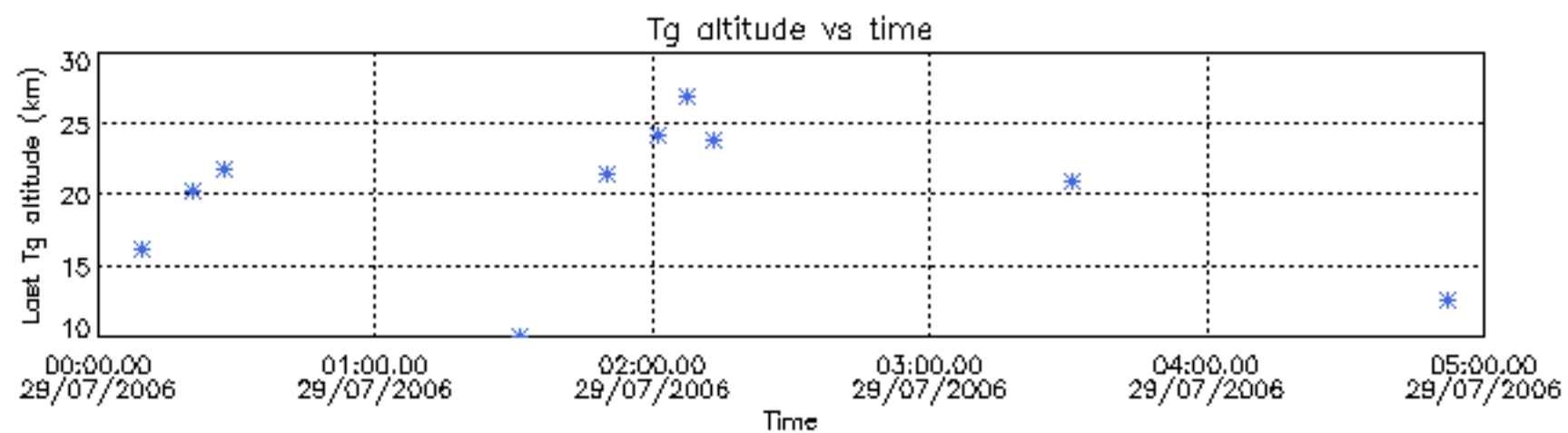
Percentage of saturation errors per profile



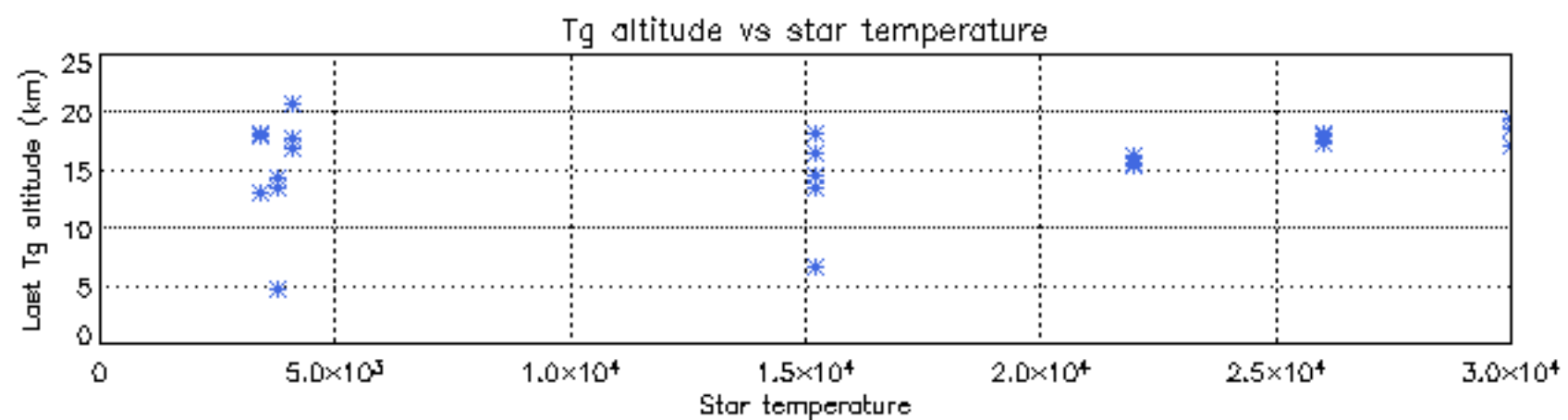
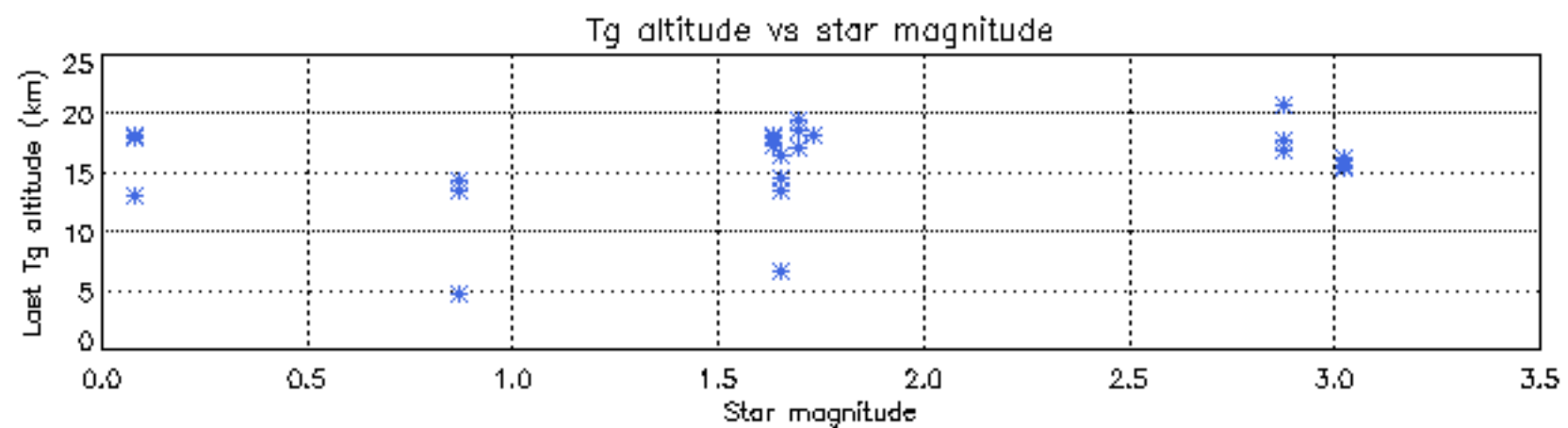
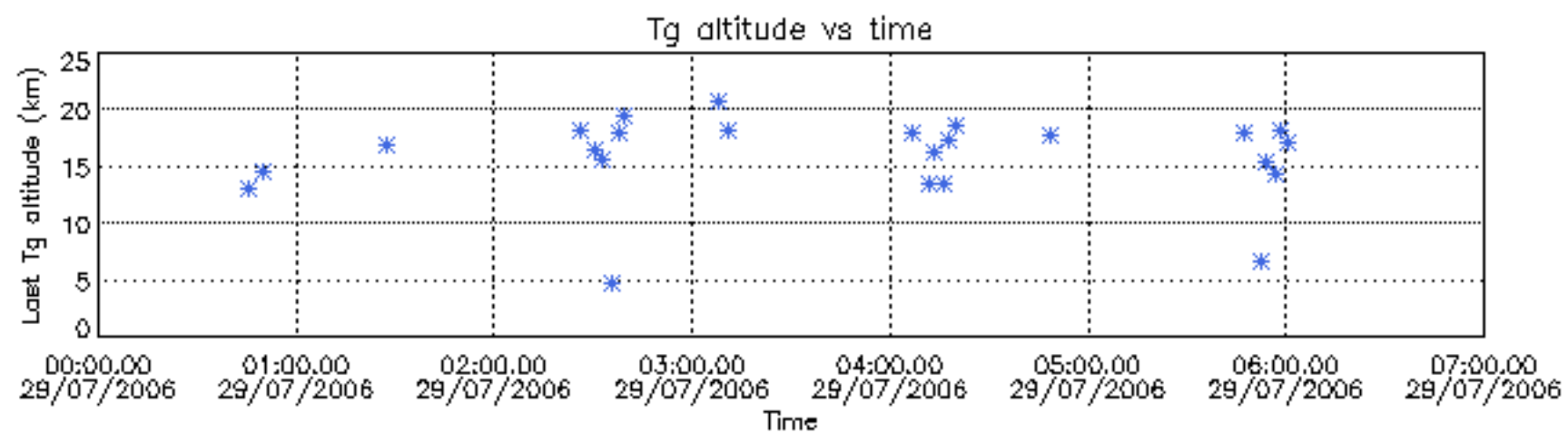
Tangent altitude at which the star is lost

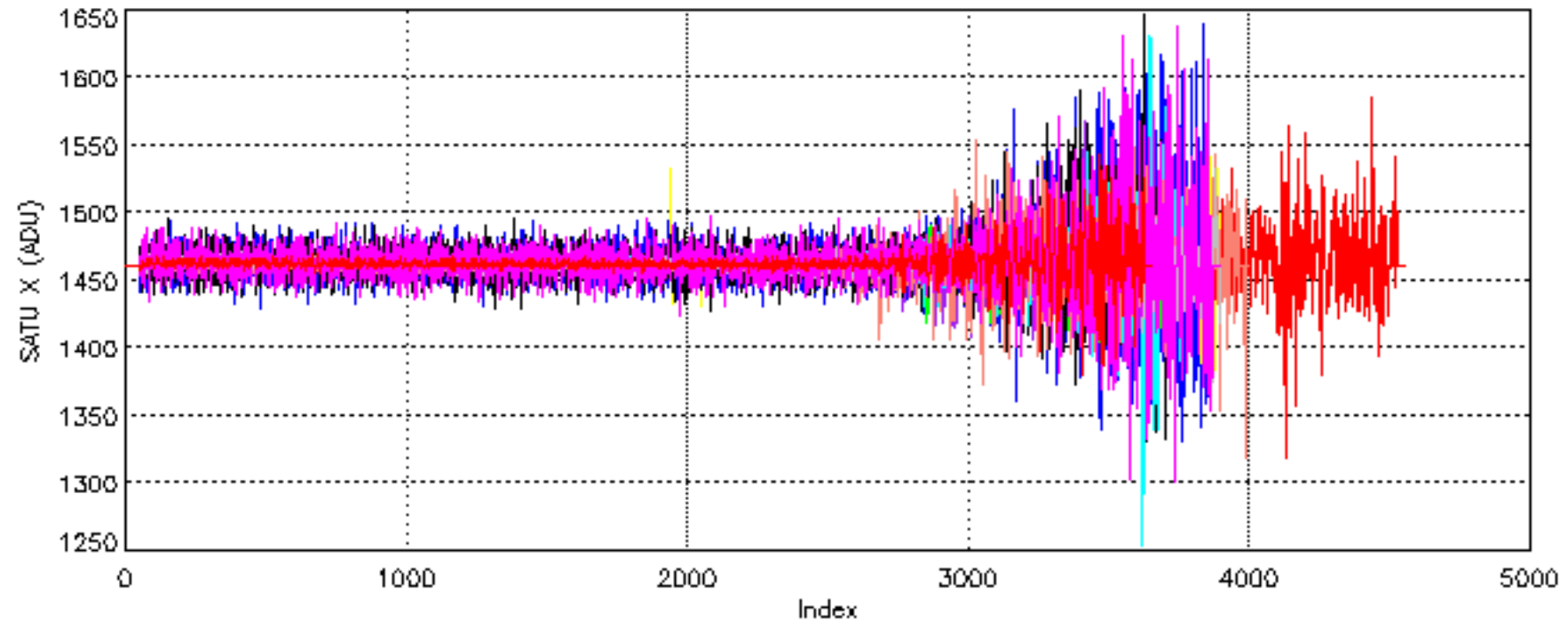


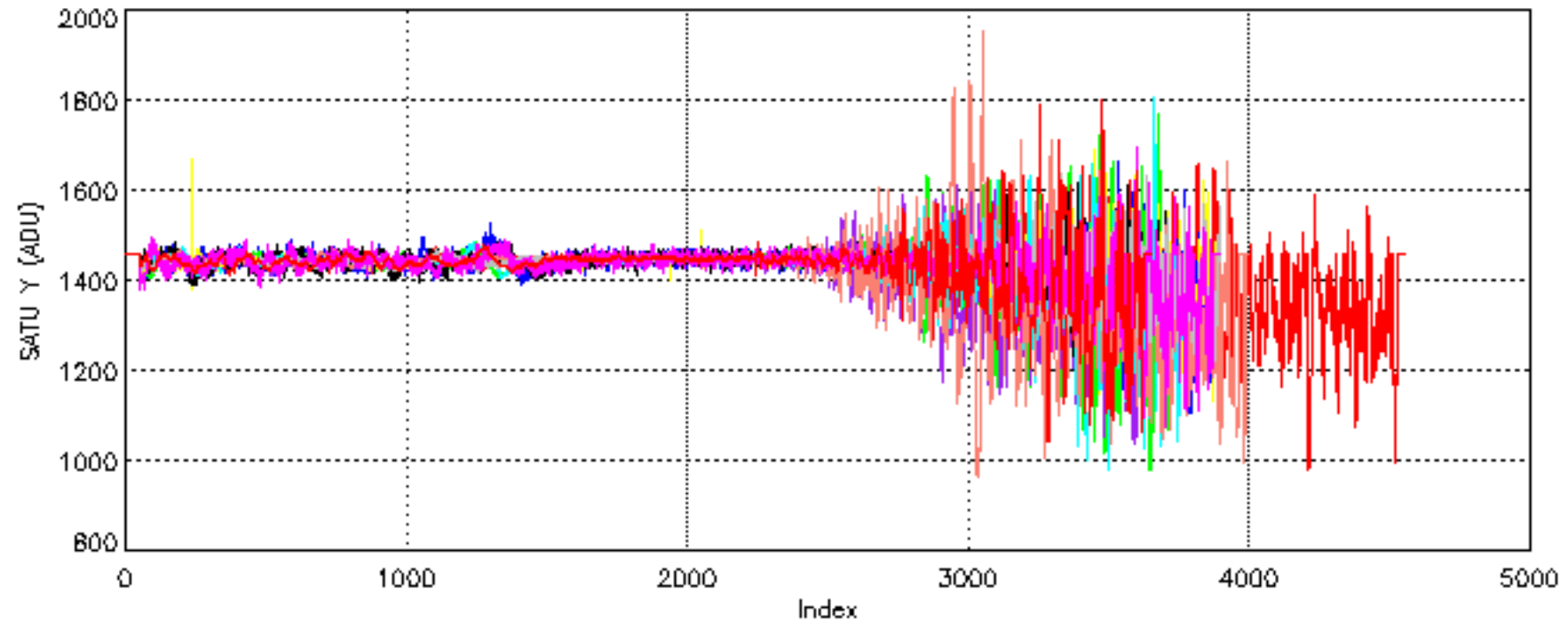
Tangent altitude at which the star is lost

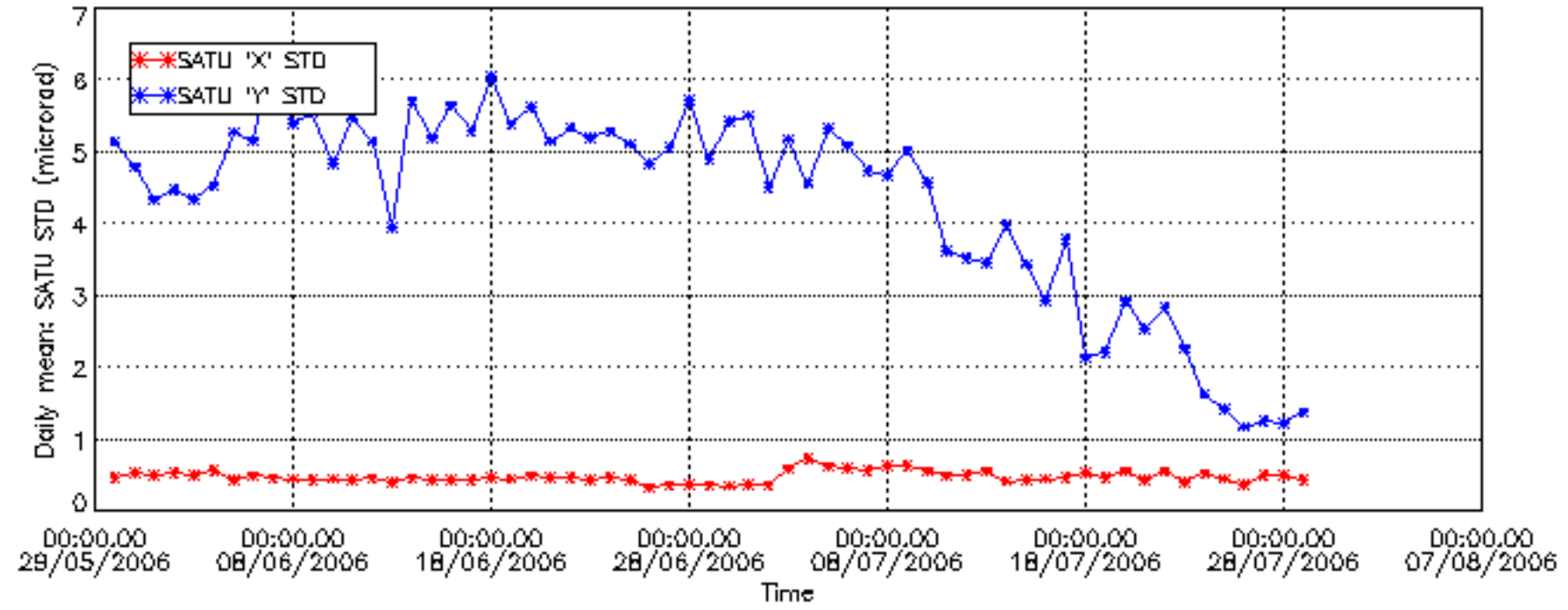


Tangent altitude at which the star is lost









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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
 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
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 10; 1642.5; 01-JUL-2006 03:02:59; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 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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 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
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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
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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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 5; 36.4; 01-JUL-2006 05:57:24; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;22662
 6; 484.0; 01-JUL-2006 06:04:52; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;22662

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9; 1171.3; 01-JUL-2006 06:16:19; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;22662
10; 1271.0; 01-JUL-2006 06:17:59; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;22662
11; 1355.6; 01-JUL-2006 06:19:24; Dark ; 46.0; 116; 19Del Sgr ; 2.70; 4100;occ; 92; 0;22662
12; 1642.9; 01-JUL-2006 06:24:11; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;22662
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
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16; 2448.0; 01-JUL-2006 06:37:36; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;22662
17; 2808.8; 01-JUL-2006 06:43:37; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;22662
18; 2952.2; 01-JUL-2006 06:46:00; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;22662
19; 3191.6; 01-JUL-2006 06:50:00; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;22662
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3; 1272.8; 01-JUL-2006 19:42:48; Dark ; 39.0; 25; 35Lam Sco ; 1.62; 28000;occ; 78; 0;22670
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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
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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
8; 1272.8; 01-JUL-2006 21:23:24; Dark ; 37.5; 25; 35Lam Sco ; 1.62; 28000;occ; 75; 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
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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 8;-3571.2; 09-JUL-2006 20:51:32; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;22785
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 12;-2591.7; 09-JUL-2006 21:07:52; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;22785
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 5; 345.4; 09-JUL-2006 21:56:49; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;22786
 6; 802.7; 09-JUL-2006 22:04:27; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;22786
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 6; 6839.0; 09-JUL-2006 23:45:03; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;22786
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 13; 8345.2; 10-JUL-2006 00:10:09; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;22786
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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
 11; 1380.8; 09-JUL-2006 07:08:41; Dark ; 47.5; 116; 19Del Sgr ; 2.70; 4100;occ; 95; 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
9; 3444.0; 09-JUL-2006 07:43:04; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;22777
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4; 2463.1; 09-JUL-2006 09:07:19; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;22778
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