

GOMOS Daily Report 03-AUG-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	05AUG2006 04:31:41
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (03AUG2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (04AUG2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	2

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

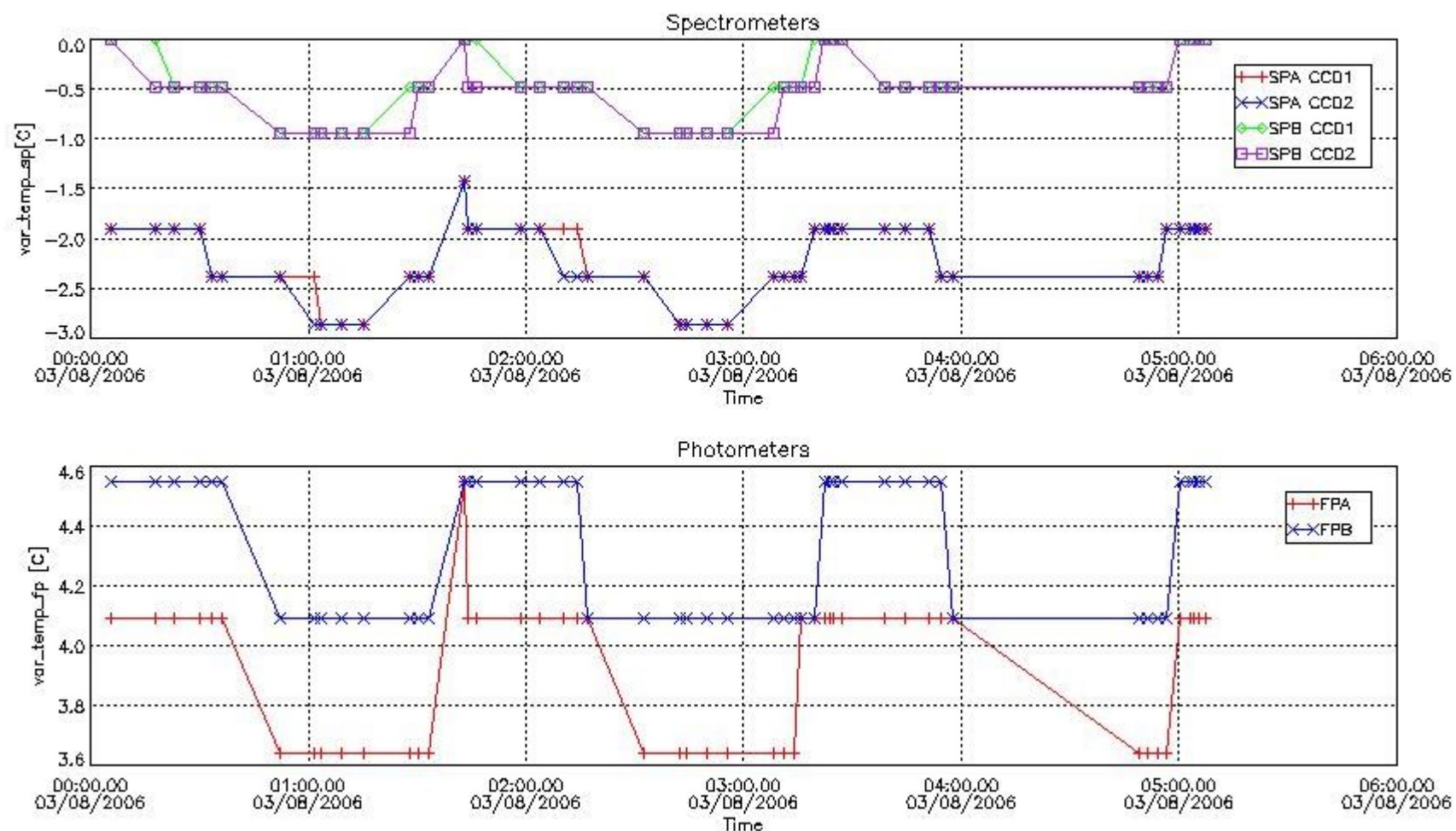
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20060803_000542_000000362050_00030_23130_0000.N1	03-AUG-2006 00:05:42	Dark	36.000	101	11Alp Lep	2.5820	7000.0	72	23130	No
2	GOM_TRA_1PNPDE20060803_001747_000000412050_00031_23131_0001.N1	03-AUG-2006 00:17:47	Dark	41.000	157	The1Eri	2.9060	9300.0	82	23131	No
3	GOM_TRA_1PNPDE20060803_002309_000000422050_00031_23131_0002.N1	03-AUG-2006 00:23:09	Dark	42.000	9	Alp Eri	0.45300	24000.	84	23131	No
4	GOM_TRA_1PNPDE20060803_002954_000000432050_00031_23131_0003.N1	03-AUG-2006 00:29:54	Twilight	43.000	148	Alp Tuc	2.8780	4100.0	86	23131	No
5	GOM_TRA_1PNPDE20060803_003317_000000372050_00031_23131_0004.N1	03-AUG-2006 00:33:17	Bright	37.000	31	Alp Gru	1.7340	15200.	74	23131	No
6	GOM_TRA_1PNPDE20060803_003625_000000402050_00031_23131_0005.N1	03-AUG-2006 00:36:25	Bright	39.500	172	Gam Gru	3.0030	13100.	79	23131	No
7	GOM_TRA_1PNPDE20060803_005203_000000312050_00031_23131_0006.N1	03-AUG-2006 00:52:03	Bright	31.000	11	53Alp Aql	0.76500	8000.0	62	23131	Yes
8	GOM_TRA_1PNPDE20060803_010146_000000312050_00031_23131_0007.N1	03-AUG-2006 01:01:46	Bright	31.000	66	37Gam Cyg	2.2080	5900.0	62	23131	No
9	GOM_TRA_1PNPDE20060803_010340_000000372050_00031_23131_0008.N1	03-AUG-2006 01:03:40	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	23131	No
10	GOM_TRA_1PNPDE20060803_010906_000000322050_00031_23131_0009.N1	03-AUG-2006 01:09:06	Bright	31.500	89	5Alp Cep	2.4510	8000.0	63	23131	No
11	GOM_TRA_1PNPDE20060803_011505_000000312050_00031_23131_0010.N1	03-AUG-2006 01:15:05	Bright	30.500	49	1Alp UMi	1.9900	6300.0	61	23131	No
12	GOM_TRA_1PNPDE20060803_012746_000000372050_00031_23131_0011.N1	03-AUG-2006 01:27:46	Bright	36.500	6	13Alp Aur	0.080000	3400.0	73	23131	No
13	GOM_TRA_1PNPDE20060803_013014_000000302050_00031_23131_0012.N1	03-AUG-2006 01:30:14	Twilight	30.000	107	37The Aur	2.6490	11000.	60	23131	No
14	GOM_TRA_1PNPDE20060803_013304_000000382050_00031_23131_0013.N1	03-AUG-2006 01:33:04	Twilight	37.500	28	12Bet Tau	1.6500	15200.	75	23131	No
15	GOM_TRA_1PNPDE20060803_014259_000000342050_00031_23131_0000.N1	03-AUG-2006 01:42:59	Dark	34.000	125	44Iot Ori	2.7700	30000.	68	23131	Yes
16	GOM_TRA_1PNPDE20060803_014409_000000482050_00031_23131_0001.N1	03-AUG-2006 01:44:09	Dark	47.500	7	19Bet Ori	0.10000	14000.	95	23131	No
17	GOM_TRA_1PNPDE20060803_014618_000000352050_00031_23131_0002.N1	03-AUG-2006 01:46:18	Dark	35.000	101	11Alp Lep	2.5820	7000.0	70	23131	No
18	GOM_TRA_1PNPDE20060803_015823_000000402050_00032_23132_0003.N1	03-AUG-2006 01:58:23	Dark	39.500	157	The1Eri	2.9060	9300.0	79	23132	No
19	GOM_TRA_1PNPDE20060803_020346_000000422050_00032_23132_0004.N1	03-AUG-2006 02:03:46	Dark	41.500	9	Alp Eri	0.45300	24000.	83	23132	No
20	GOM_TRA_1PNPDE20060803_021031_000000352050_00032_23132_0005.N1	03-AUG-2006 02:10:31	Twilight	34.500	148	Alp Tuc	2.8780	4100.0	69	23132	No
21	GOM_TRA_1PNPDE20060803_021354_000000382050_00032_23132_0006.N1	03-AUG-2006 02:13:54	Bright	37.500	31	Alp Gru	1.7340	15200.	75	23132	No
22	GOM_TRA_1PNPDE20060803_021701_000000382050_00032_23132_0007.N1	03-AUG-2006 02:17:01	Bright	37.500	172	Gam Gru	3.0030	13100.	75	23132	No
23	GOM_TRA_1PNPDE20060803_023239_000000322050_00032_23132_0008.N1	03-AUG-2006 02:32:39	Bright	32.000	11	53Alp Aql	0.76500	8000.0	64	23132	No
24	GOM_TRA_1PNPDE20060803_024222_000000332050_00032_23132_0009.N1	03-AUG-2006 02:42:22	Bright	33.000	66	37Gam Cyg	2.2080	5900.0	66	23132	No
25	GOM_TRA_1PNPDE20060803_024416_000000362050_00032_23132_0010.N1	03-AUG-2006 02:44:16	Bright	35.500	19	50Alp Cyg	1.2460	10500.	71	23132	No
26	GOM_TRA_1PNPDE20060803_024941_000000312050_00032_23132_0011.N1	03-AUG-2006 02:49:41	Bright	30.500	89	5Alp Cep	2.4510	8000.0	61	23132	No
27	GOM_TRA_1PNPDE20060803_025541_000000292050_00032_23132_0000.N1	03-AUG-2006 02:55:41	Bright	29.000	49	1Alp UMi	1.9900	6300.0	58	23132	No
28	GOM_TRA_1PNPDE20060803_030822_000000372050_00032_23132_0000.N1	03-AUG-2006 03:08:22	Bright	37.000	6	13Alp Aur	0.080000	3400.0	74	23132	No
29	GOM_TRA_1PNPDE20060803_031050_000000292050_00032_23132_0001.N1	03-AUG-2006 03:10:50	Twilight	29.000	107	37The Aur	2.6490	11000.	58	23132	No
30	GOM_TRA_1PNPDE20060803_031340_000000392050_00032_23132_0002.N1	03-AUG-2006 03:13:40	Twilight	39.000	28	12Bet Tau	1.6500	15200.	78	23132	No
31	GOM_TRA_1PNPDE20060803_031546_000000372050_00032_23132_0003.N1	03-AUG-2006 03:15:46	Twilight	36.500	176	23Zet Tau	3.0200	22000.	73	23132	No
32	GOM_TRA_1PNPDE20060803_031927_000000382050_00032_23132_0004.N1	03-AUG-2006 03:19:27	Twilight	37.500	14	58Alp Ori	0.87000	3000.0	75	23132	No
33	GOM_TRA_1PNPDE20060803_032215_000000352050_00032_23132_0005.N1	03-AUG-2006 03:22:15	Dark	35.000	30	46Eps Ori	1.6940	30000.	70	23132	No
34	GOM_TRA_1PNPDE20060803_032335_000000342050_00032_23132_0006.N1	03-AUG-2006 03:23:35	Dark	33.500	125	44Iot Ori	2.7700	30000.	67	23132	No
35	GOM_TRA_1PNPDE20060803_032446_000000412050_00032_23132_0007.N1	03-AUG-2006 03:24:46	Dark	41.000	7	19Bet Ori	0.10000	14000.	82	23132	No
36	GOM_TRA_1PNPDE20060803_032655_000000322050_00032_23132_0008.N1	03-AUG-2006 03:26:55	Dark	31.500	101	11Alp Lep	2.5820	7000.0	63	23132	No
37	GOM_TRA_1PNPDE20060803_033900_000000392050_00033_23133_0009.N1	03-AUG-2006 03:39:00	Dark	39.000	157	The1Eri	2.9060	9300.0	78	23133	No
38	GOM_TRA_1PNPDE20060803_034423_000000362050_00033_23133_0010.N1	03-AUG-2006 03:44:23	Dark	36.000	9	Alp Eri	0.45300	24000.	72	23133	No
39	GOM_TRA_1PNPDE20060803_035107_000000352050_00033_23133_0011.N1	03-AUG-2006 03:51:07	Twilight	35.000	148	Alp Tuc	2.8780	4100.0	70	23133	No
40	GOM_TRA_1PNPDE20060803_035430_000000402050_00033_23133_0012.N1	03-AUG-2006 03:54:30	Bright	40.000	31	Alp Gru	1.7340	15200.	80	23133	No
41	GOM_TRA_1PNPDE20060803_035738_000000382050_00033_23133_0013.N1	03-AUG-2006 03:57:38	Bright	38.000	172	Gam Gru	3.0030	13100.	76	23133	No
42	GOM_TRA_1PNPDE20060803_044858_000000372050_00033_23133_0000.N1	03-AUG-2006 04:48:58	Bright	37.000	6	13Alp Aur	0.080000	3400.0	74	23133	No

43	GOM_TRA_1PNPDE20060803_045126_000000292050_00033_23133_0001.N1	03-AUG-2006 04:51:26	Twilight	28.500	107	37The Aur	2.6490	11000.	57	23133	No
44	GOM_TRA_1PNPDE20060803_045416_000000392050_00033_23133_0002.N1	03-AUG-2006 04:54:16	Twilight	38.500	28	12Bet Tau	1.6500	15200.	77	23133	No
45	GOM_TRA_1PNPDE20060803_045622_000000362050_00033_23133_0003.N1	03-AUG-2006 04:56:22	Twilight	36.000	176	23Zet Tau	3.0200	22000.	72	23133	No
46	GOM_TRA_1PNPDE20060803_050003_000000432050_00033_23133_0004.N1	03-AUG-2006 05:00:03	Twilight	43.000	14	58Alp Ori	0.87000	3000.0	86	23133	No
47	GOM_TRA_1PNPDE20060803_050251_000000322050_00033_23133_0005.N1	03-AUG-2006 05:02:51	Dark	31.500	30	46Eps Ori	1.6940	30000.	63	23133	No
48	GOM_TRA_1PNPDE20060803_050411_000000302050_00033_23133_0006.N1	03-AUG-2006 05:04:11	Dark	30.000	125	44Iot Ori	2.7700	30000.	60	23133	No
49	GOM_TRA_1PNPDE20060803_050522_000000312050_00033_23133_0007.N1	03-AUG-2006 05:05:22	Dark	31.000	7	19Bet Ori	0.10000	14000.	62	23133	No
50	GOM_TRA_1PNPDE20060803_050731_000000312050_00033_23133_0008.N1	03-AUG-2006 05:07:31	Dark	31.000	101	11Alp Lep	2.5820	7000.0	62	23133	No

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



4. Overview of dark signal processing per product

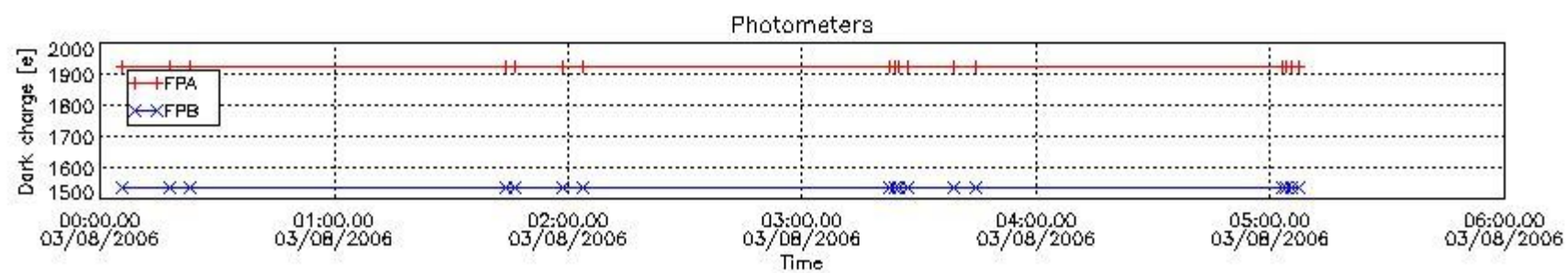
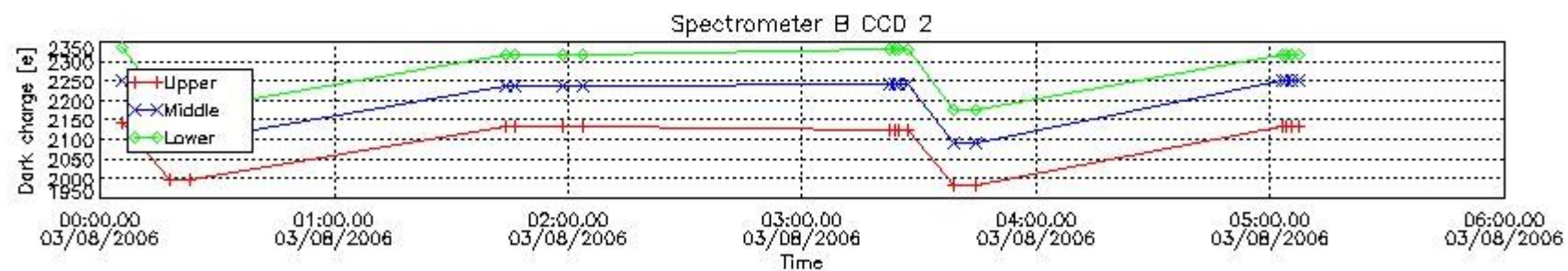
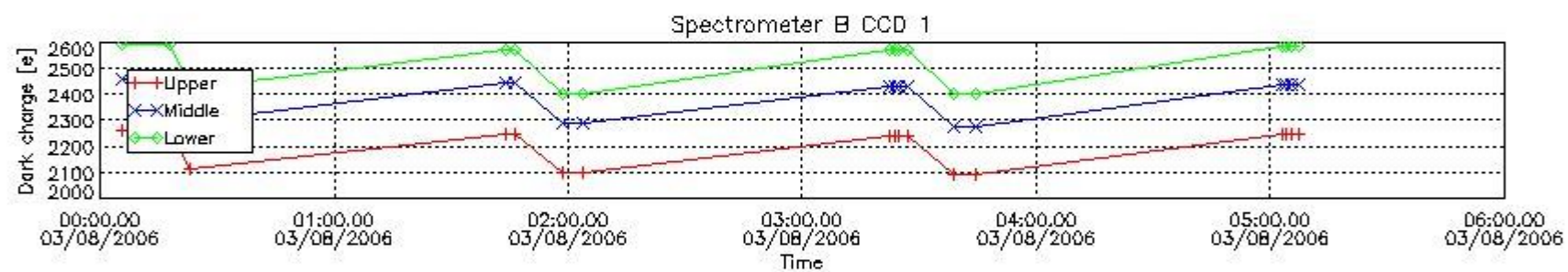
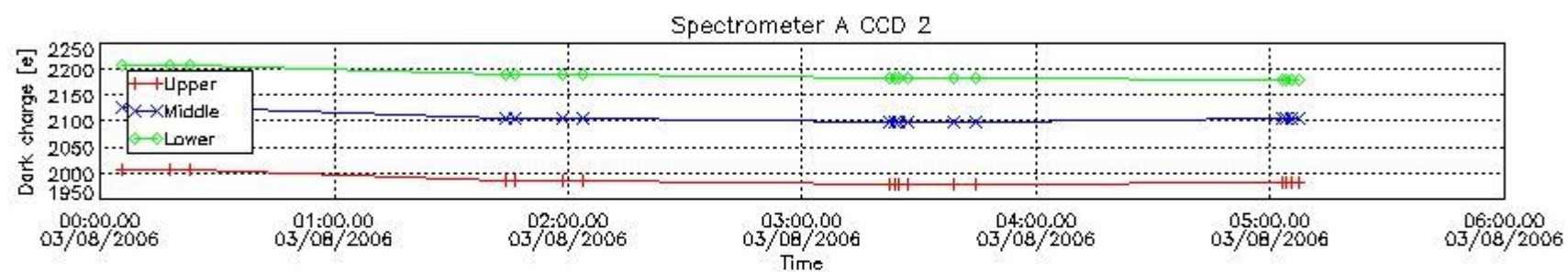
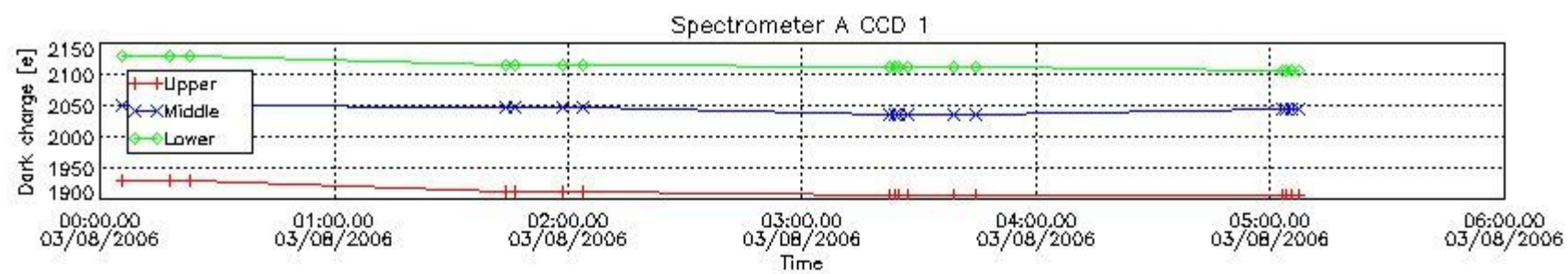
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

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

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

Product name	DC information
GOM_TRA_1PNPDE20060803_025541_000000292050_00032_23132_0000.N1	DC map used (0)

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



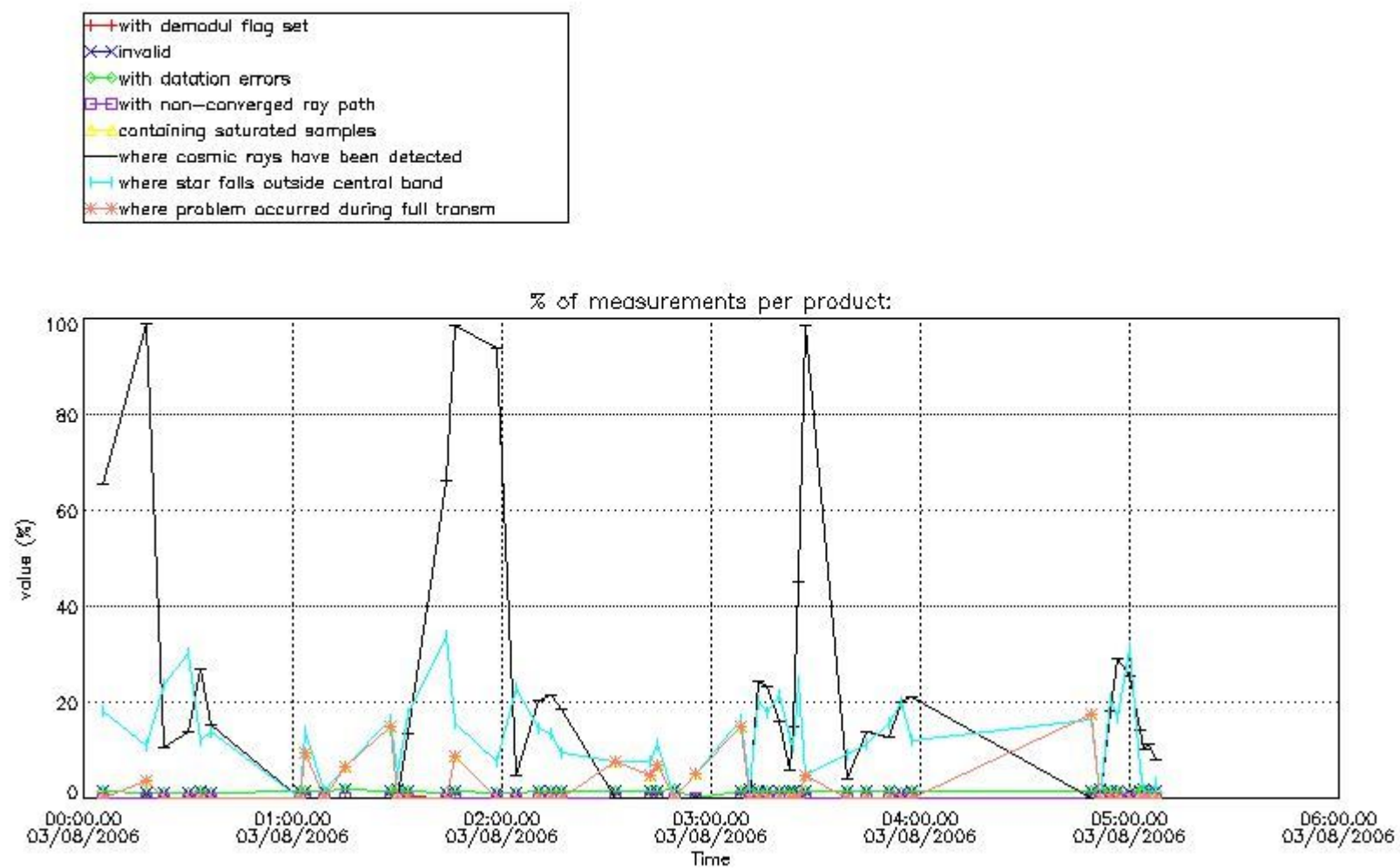
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

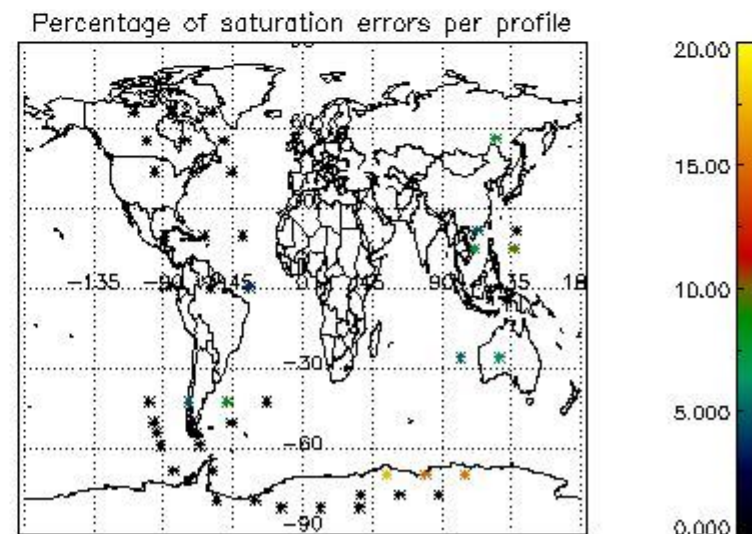
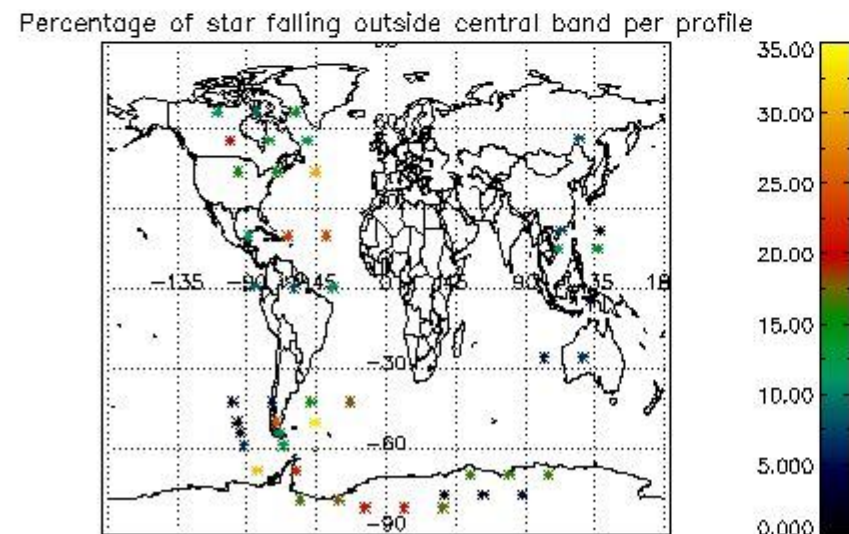
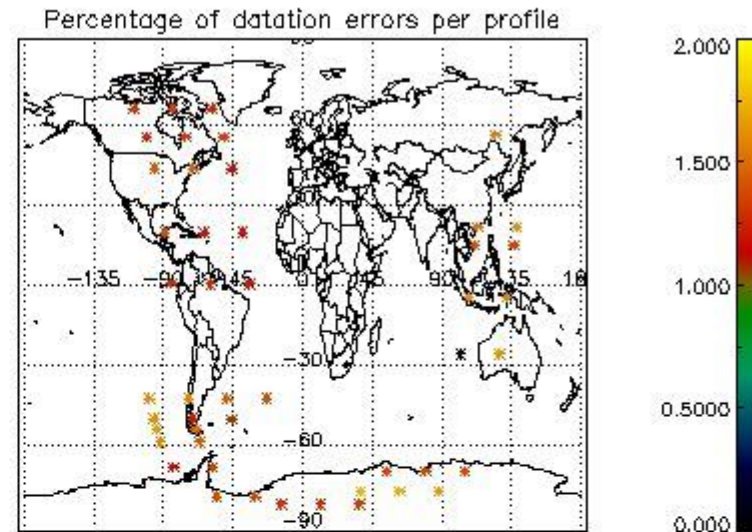
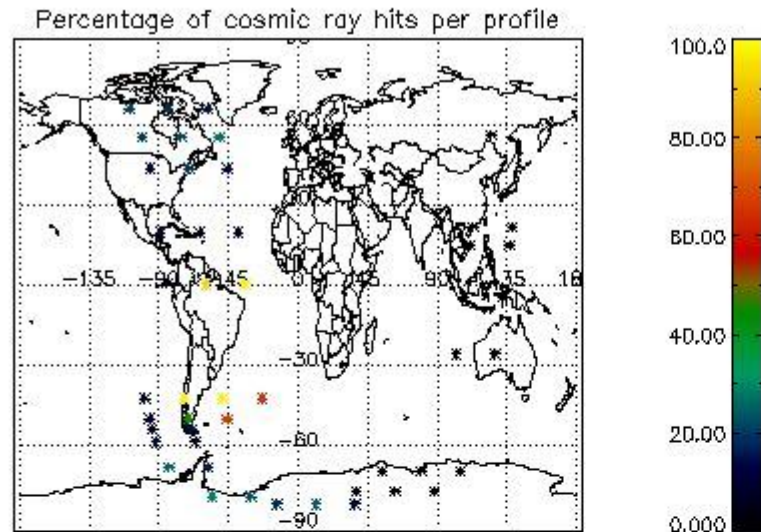
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.9167 %
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)



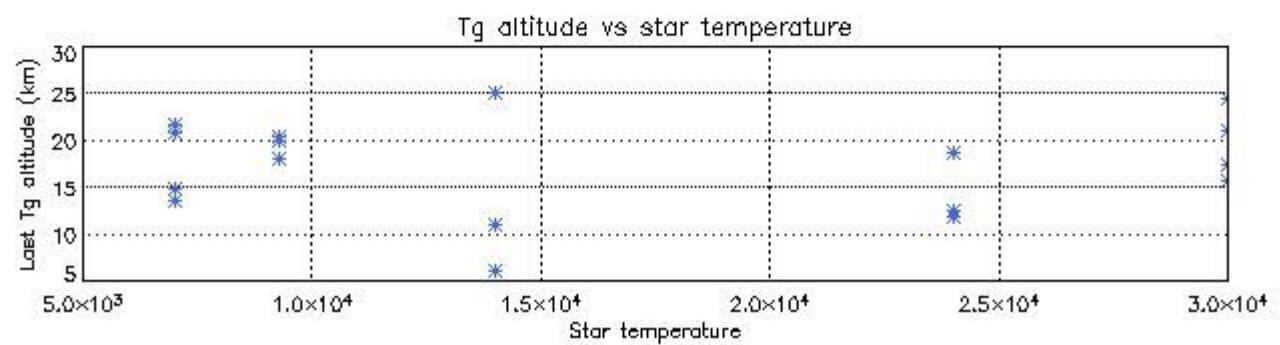
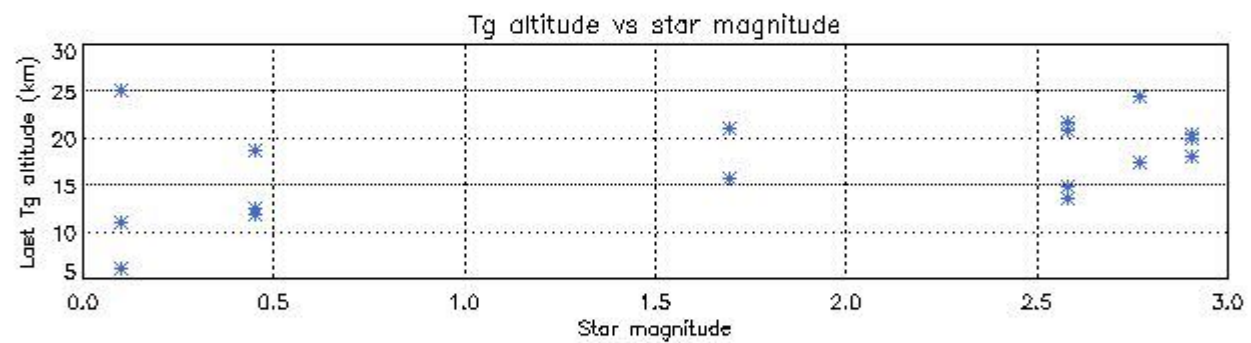
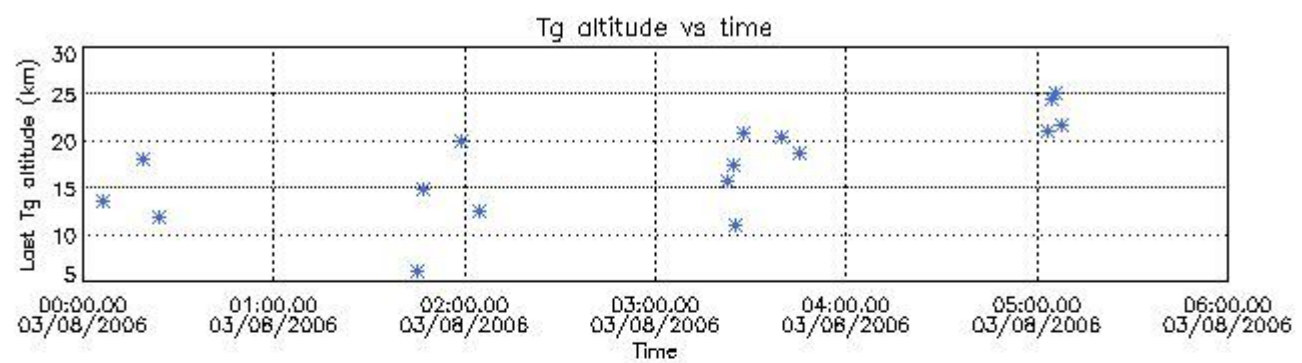
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.241	19.339	15.544
St. deviation:	5.0983	4.0072	5.7033
Maximum:	25.098	27.328	25.749
Minimum:	6.1080	14.250	7.5809
Number of data:	17.000	18.000	13.000

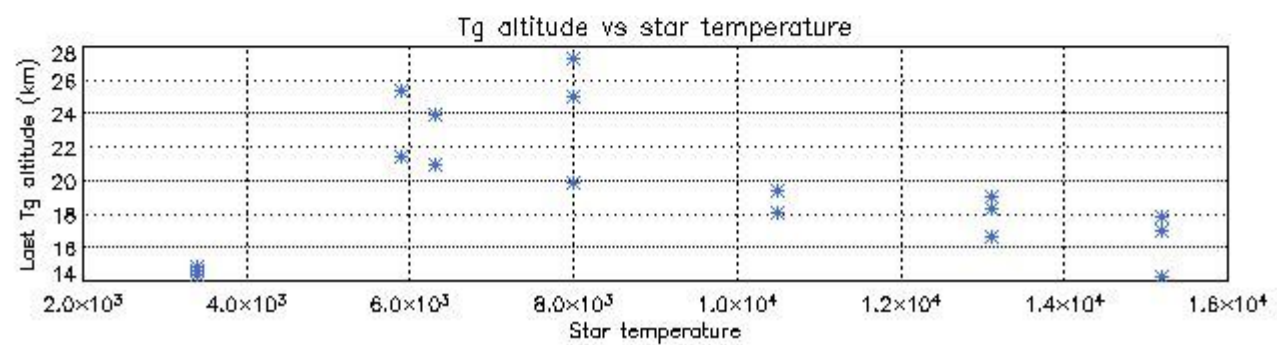
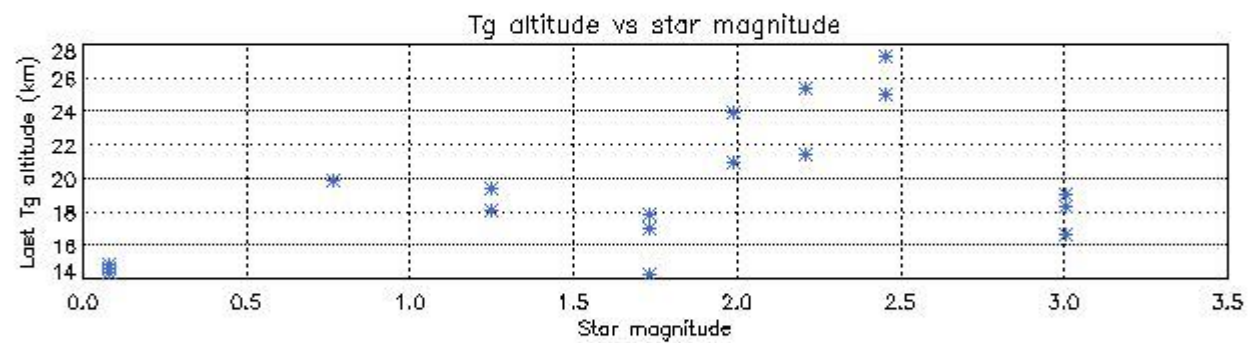
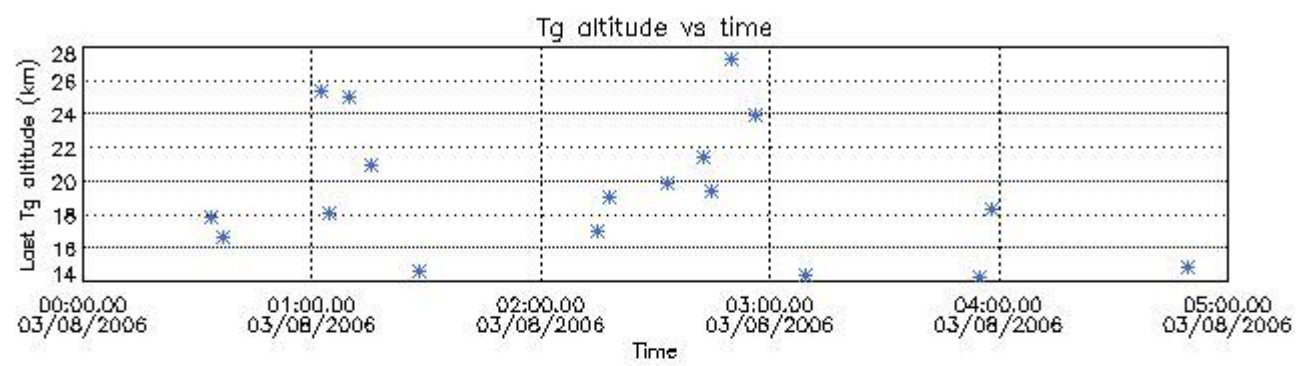
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



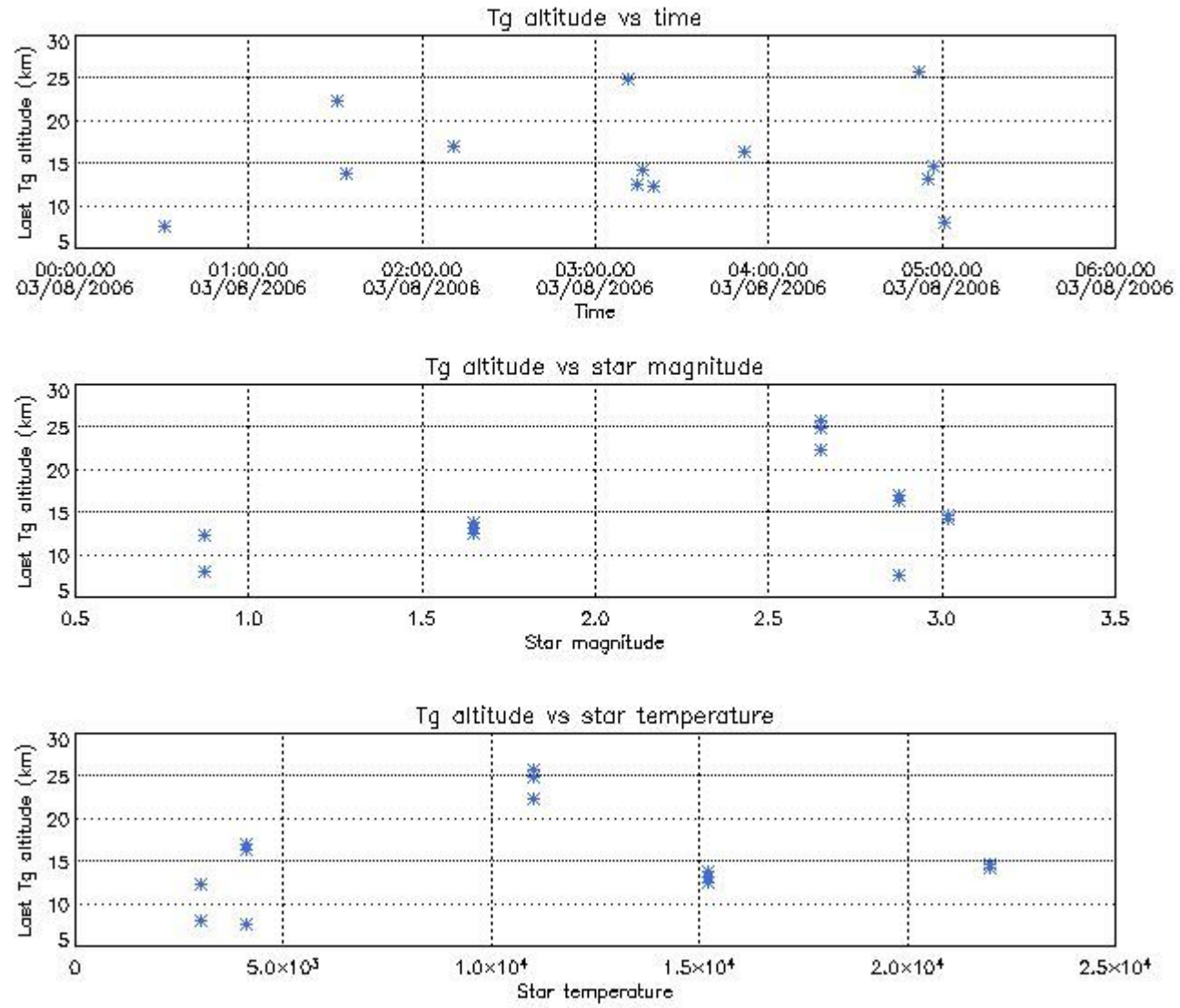
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

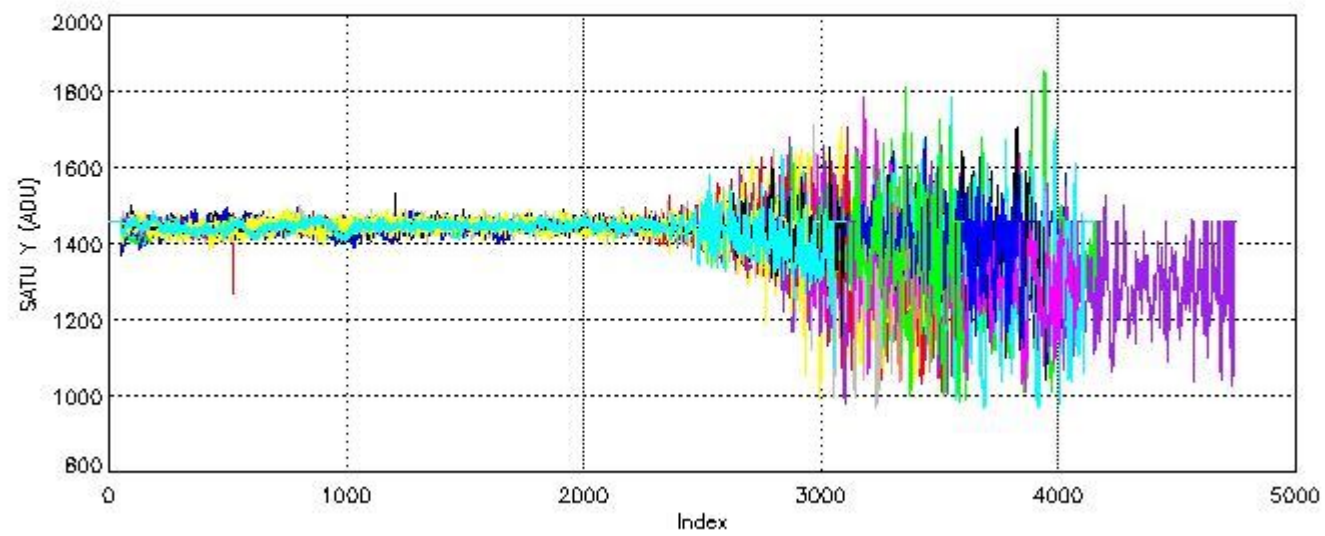
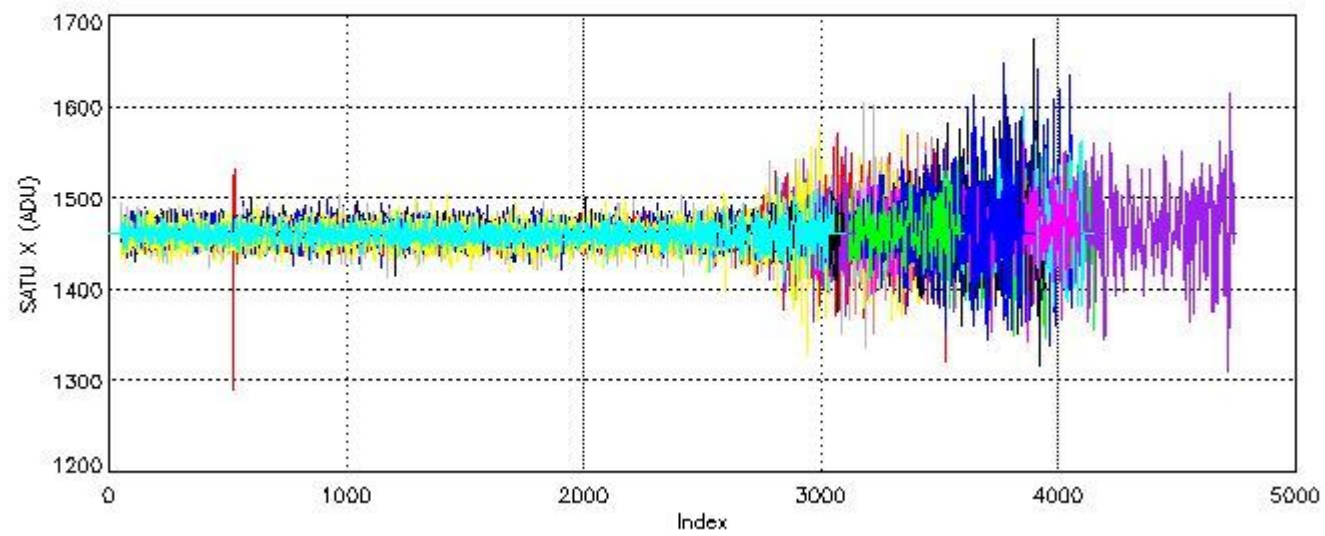


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in ADU) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

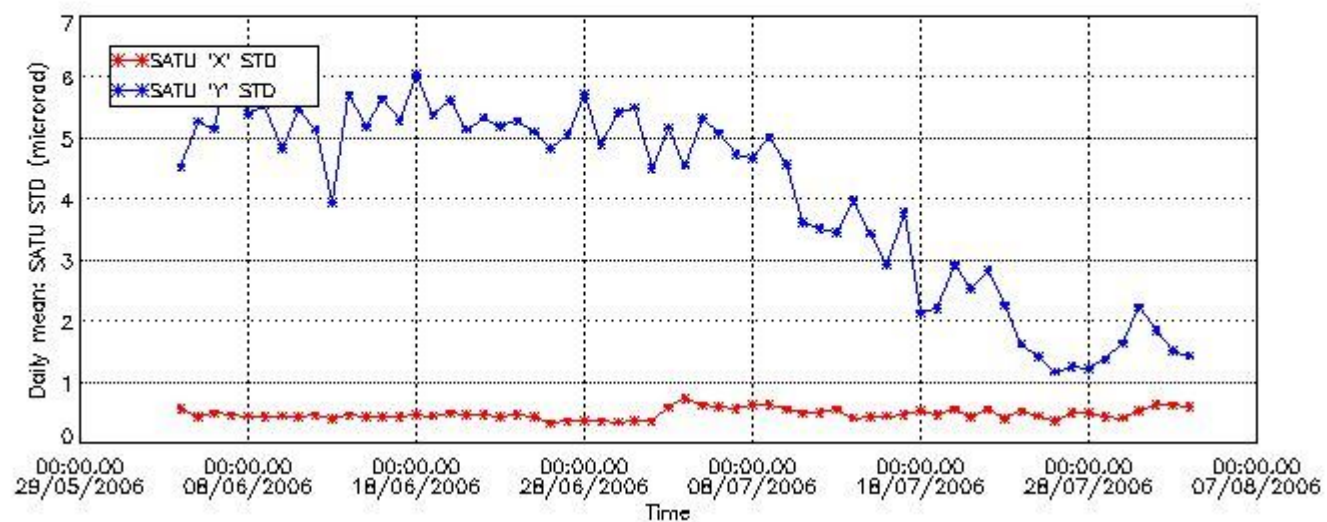
7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.1	1442.8	1462.0	1446.3
St. deviation:	5.8672	14.276	5.7338	13.186
Maximum:	1493.0	1500.0	1502.0	1493.0
Minimum:	1436.0	1416.0	1451.0	1416.0

Number of data:	6450.0	6450.0	5550.0	5550.0
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7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

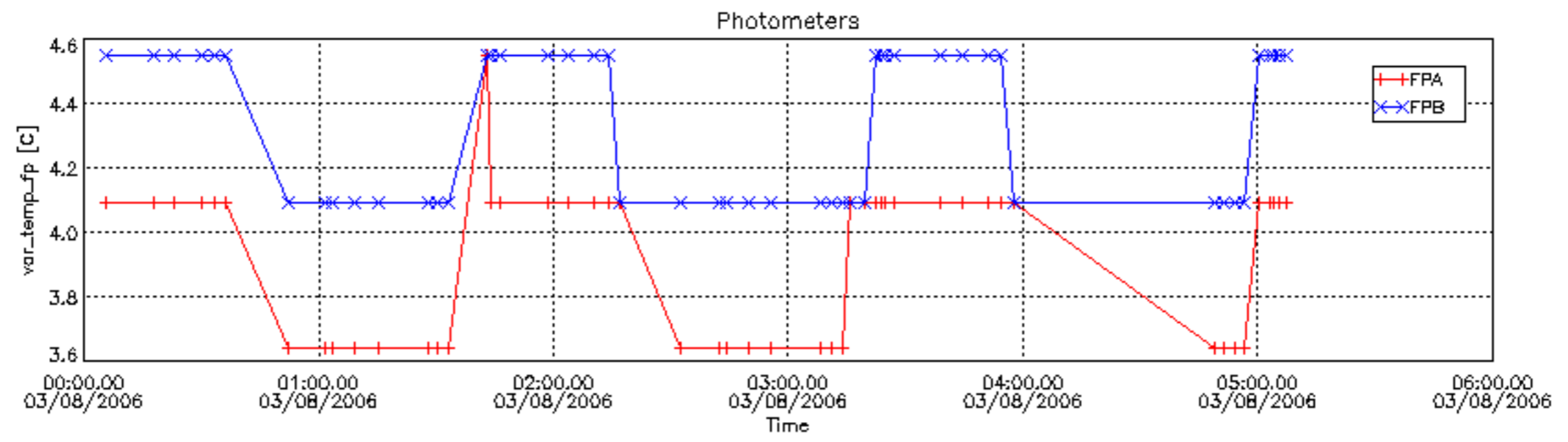
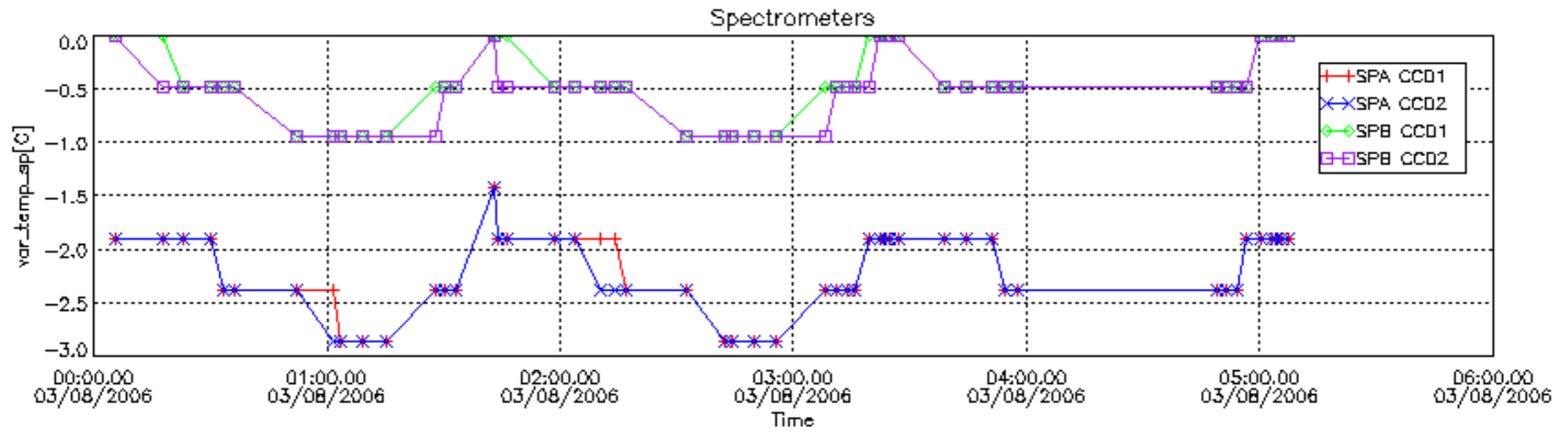
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

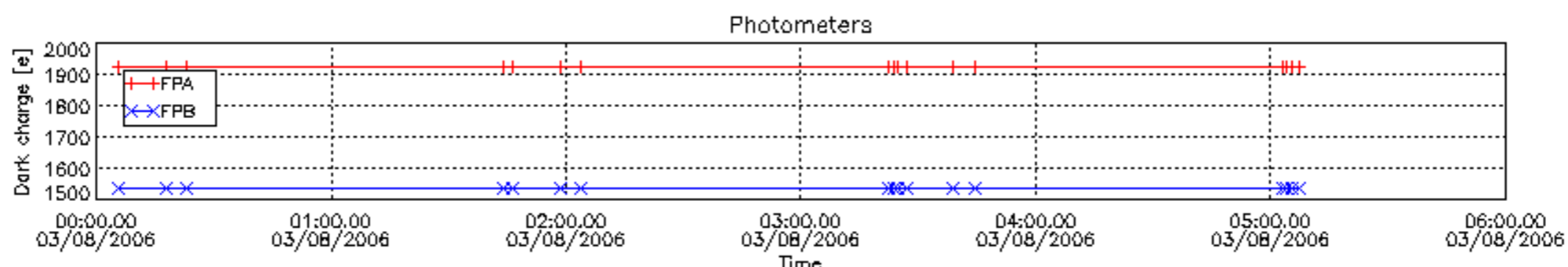
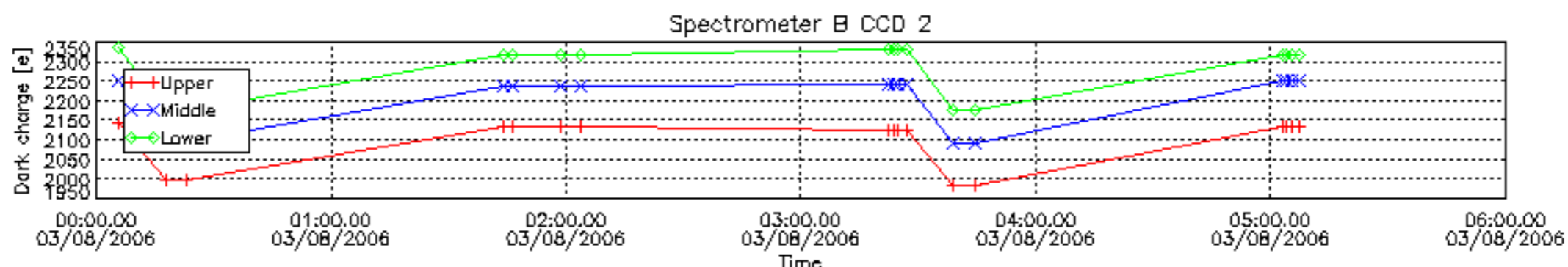
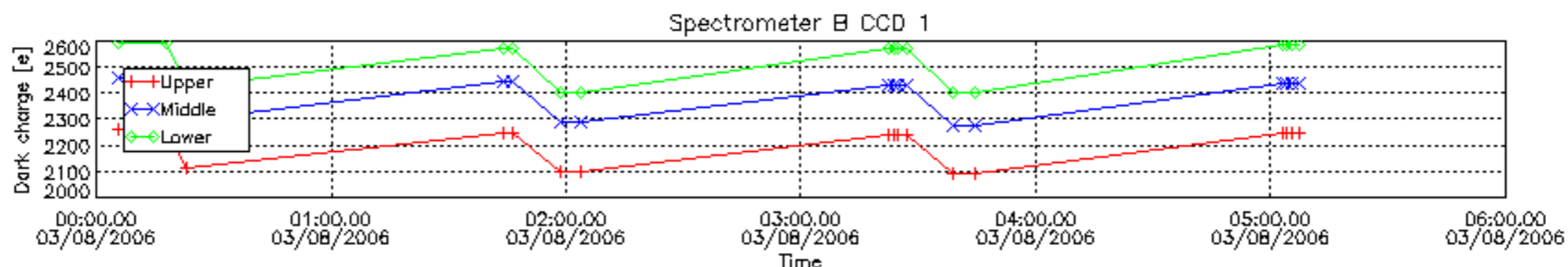
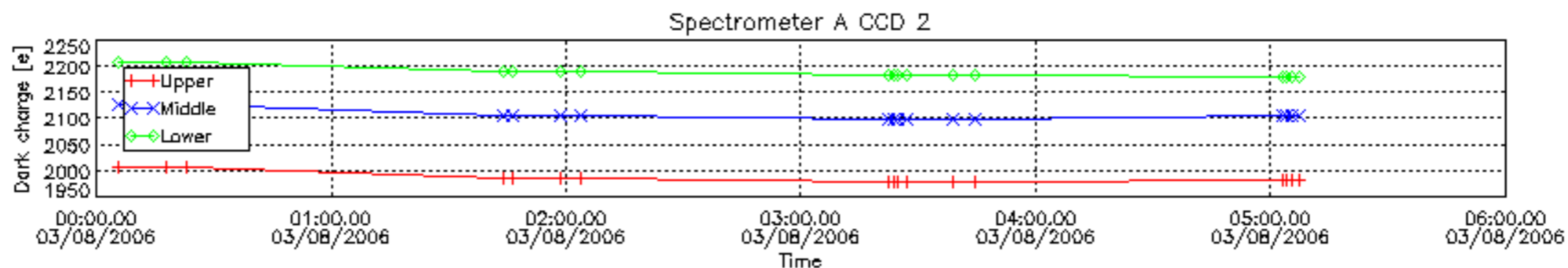
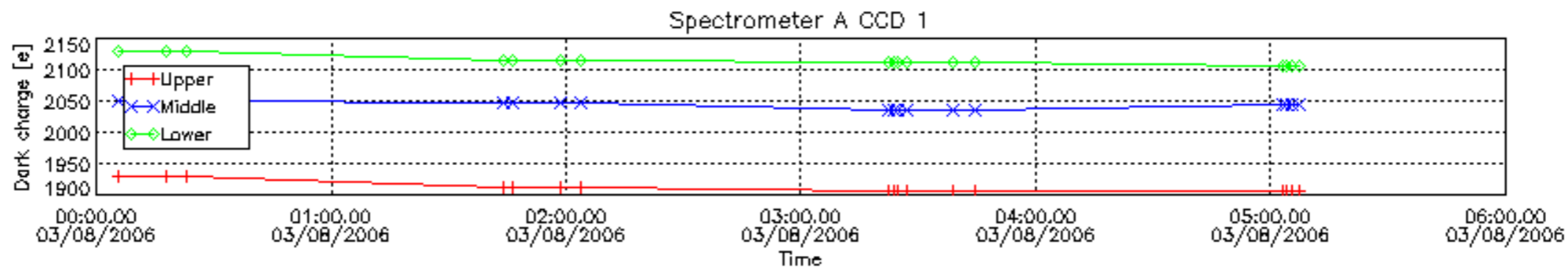


8. Auxiliary Data Files used for the production reported in section 2.2

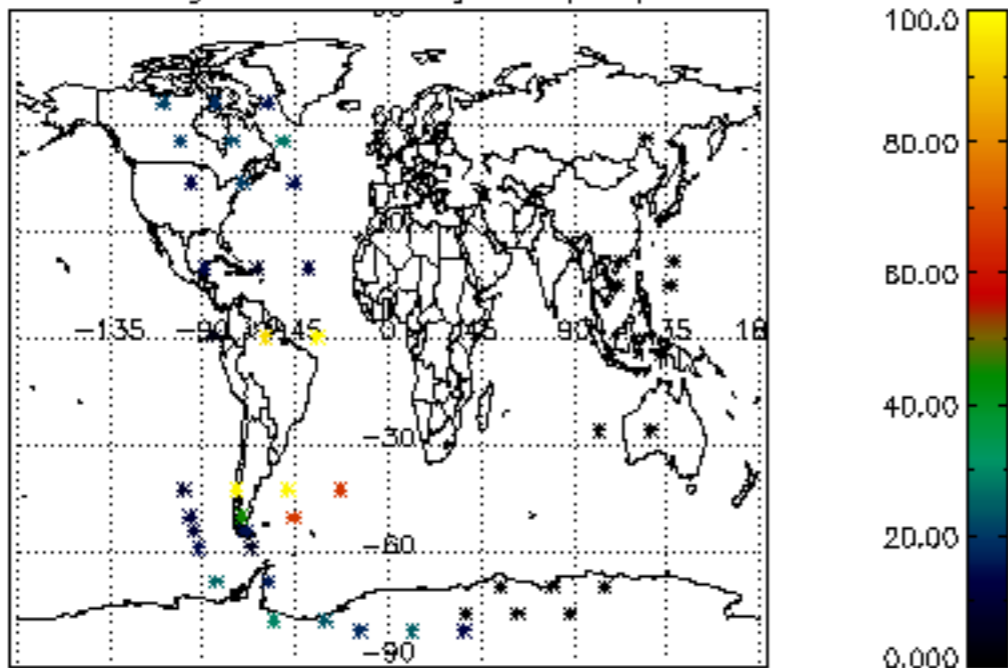
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	03-AUG-2006 00:05:42
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060725_102635_20060724_000000_20100101_000000	1	03-AUG-2006 00:05:42
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	03-AUG-2006 00:05:42
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-AUG-2006 00:05:42
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	03-AUG-2006 00:05:42
ECMWF_FILE	AUX_ECF_AXNECM20060802_062602_20060802_210000_20060803_090000	1	03-AUG-2006 00:05:42
ECMWF_FILE	AUX_ECF_AXNECM20060802_182525_20060803_030000_20060803_150000	42	03-AUG-2006 04:48:58
OPTIONAL_ECMWF_FILE	NOT USED	1	03-AUG-2006 00:05:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060803_000355_000054192050_00030_23130_0263.N1	1	03-AUG-2006 00:05:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060803_013933_000041442050_00031_23131_0264.N1	15	03-AUG-2006 01:42:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060803_025356_000057382050_00032_23132_0265.N1	27	03-AUG-2006 02:55:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060803_013933_000041442050_00031_23131_0264.N1	28	03-AUG-2006 03:08:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060803_043453_000057382050_00033_23133_0266.N1	42	03-AUG-2006 04:48:58

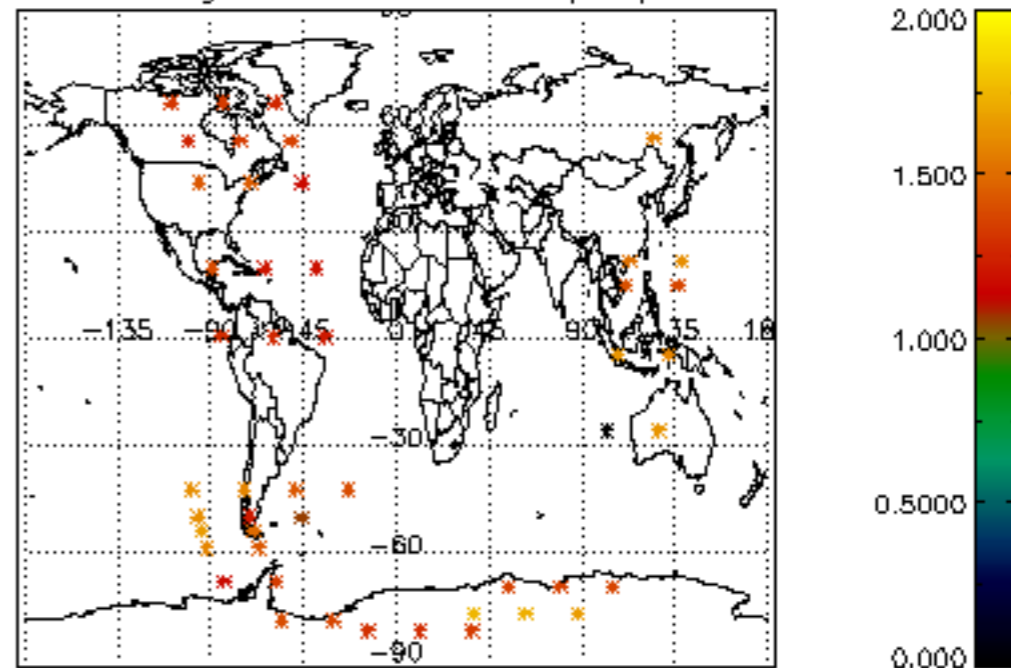




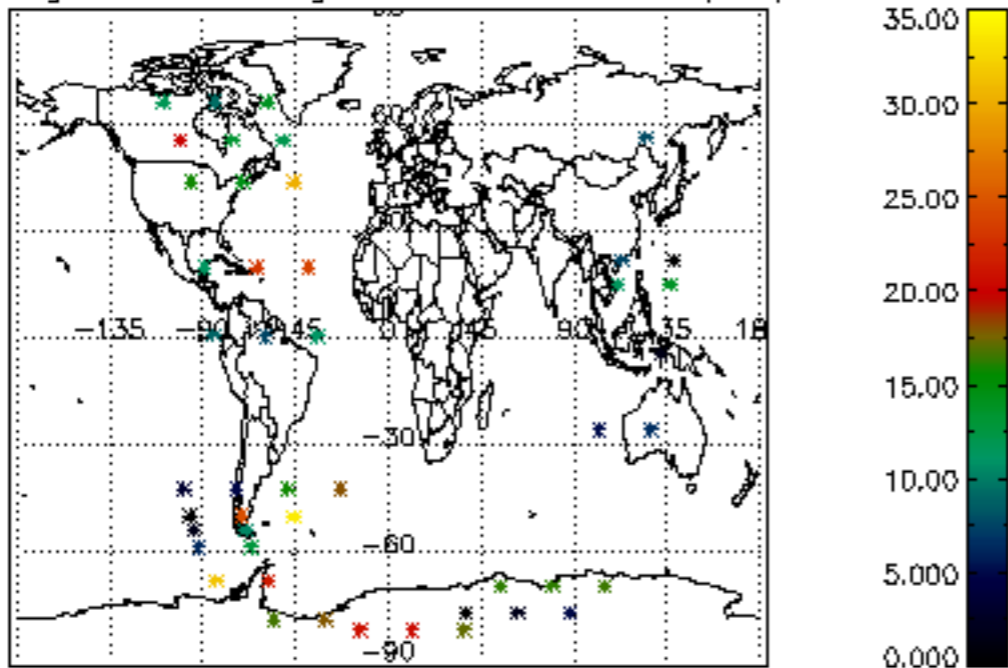
Percentage of cosmic ray hits per profile



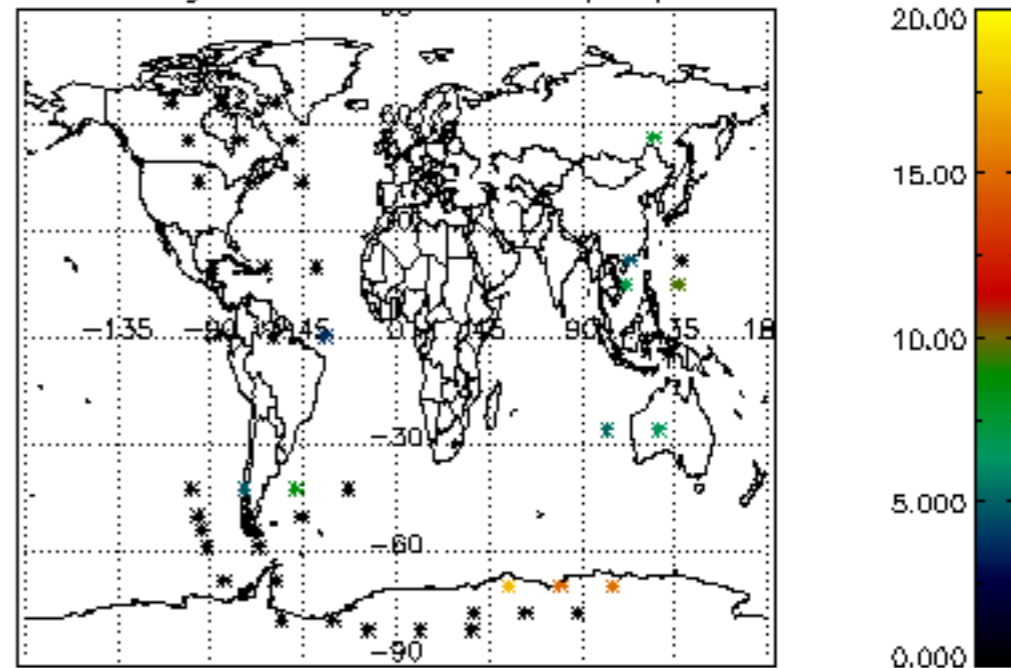
Percentage of datation errors per profile



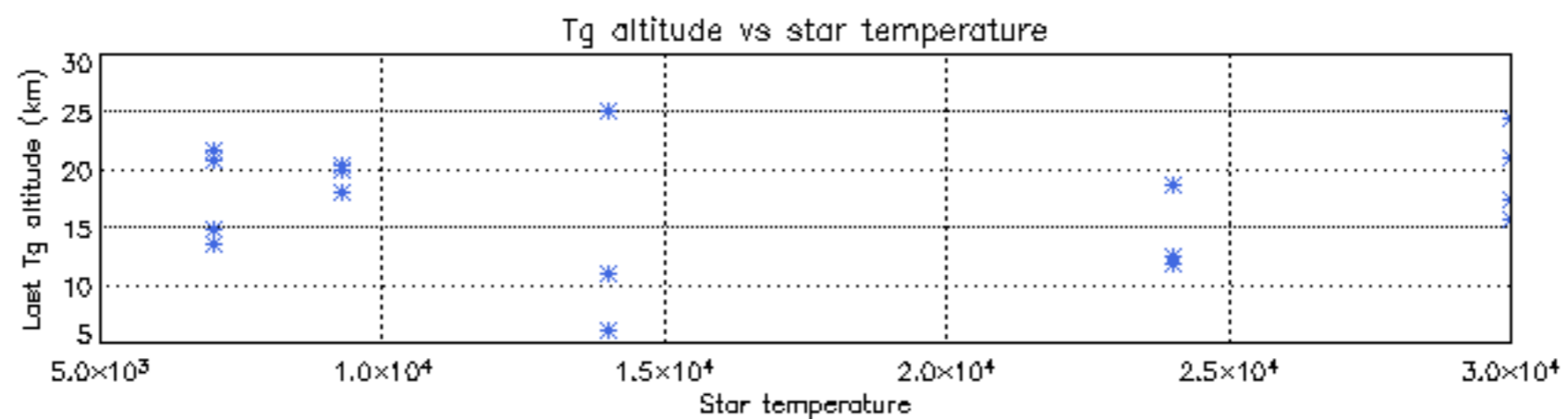
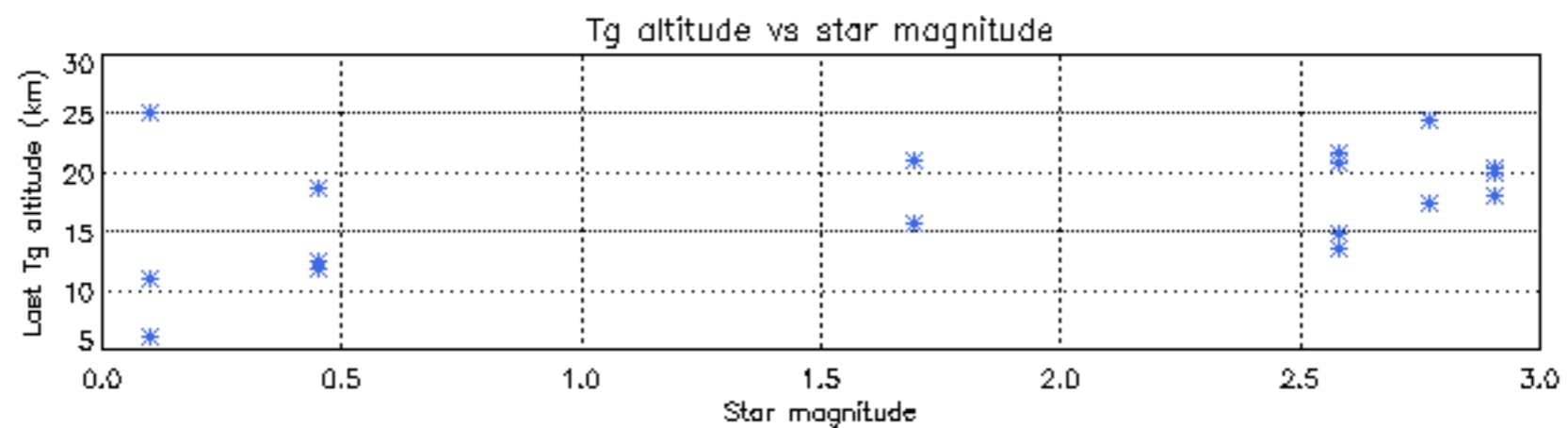
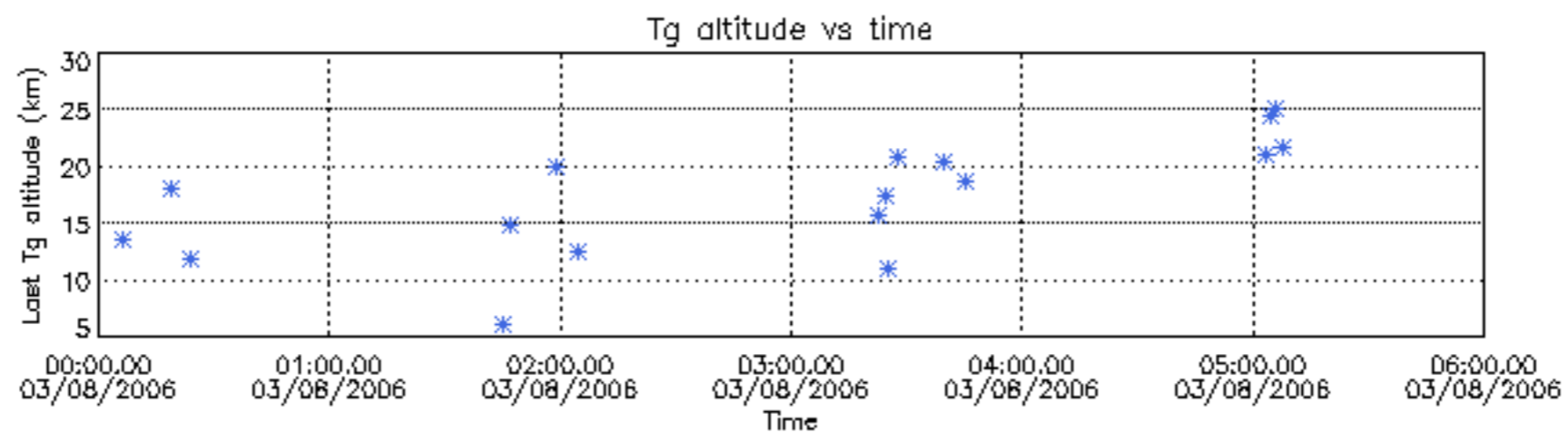
Percentage of star falling outside central band per profile



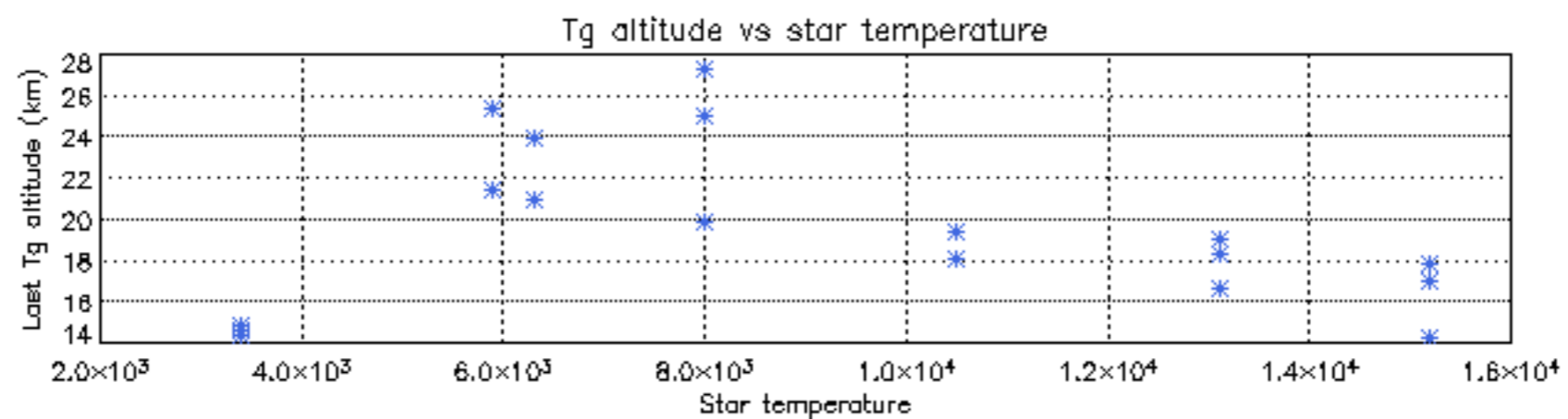
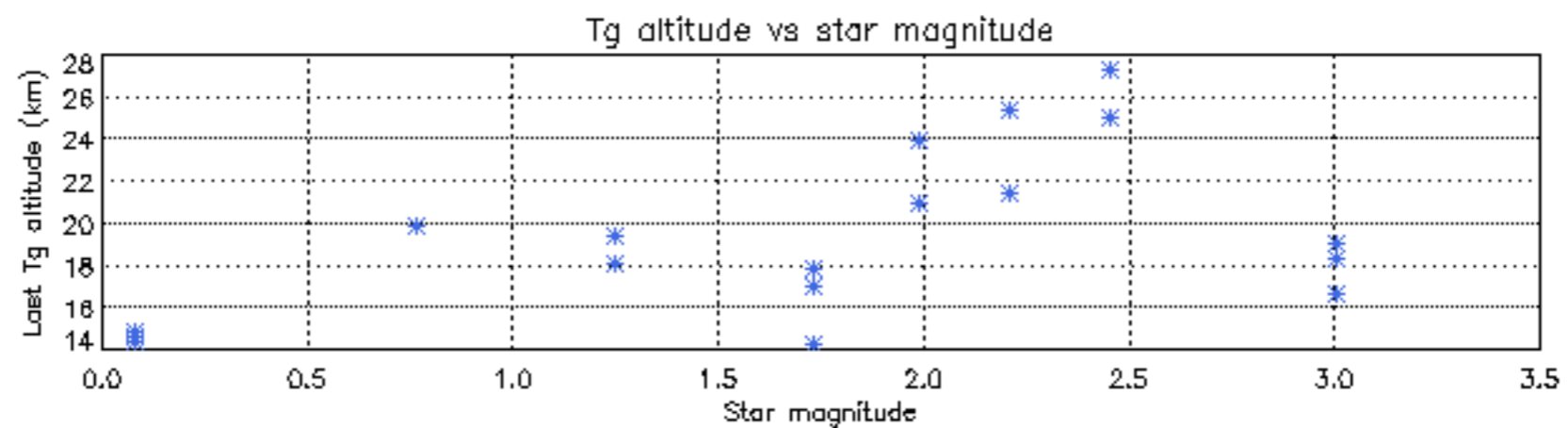
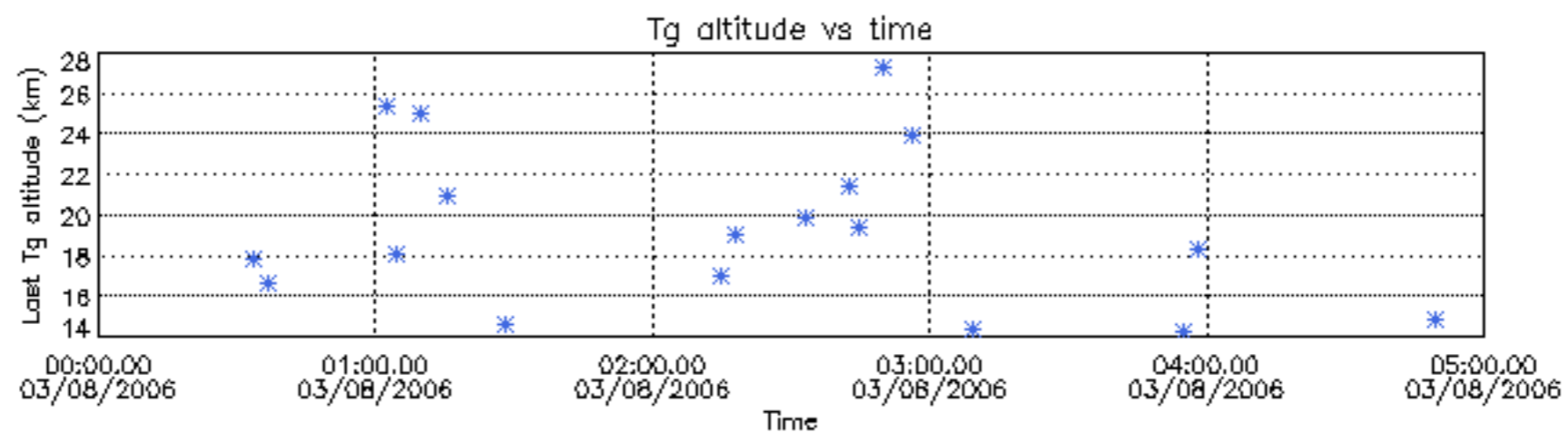
Percentage of saturation errors per profile



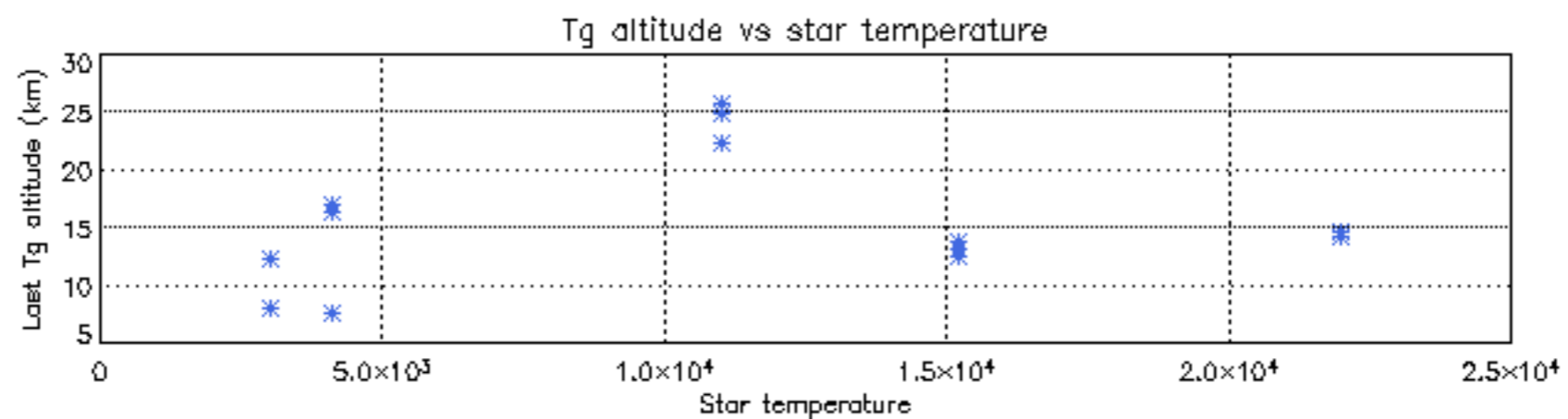
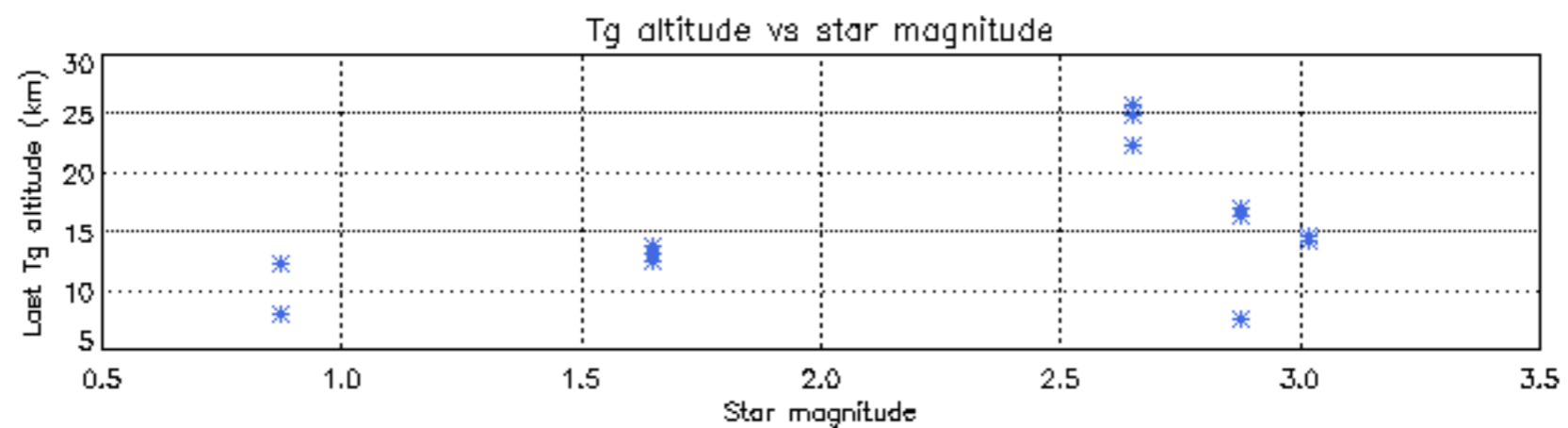
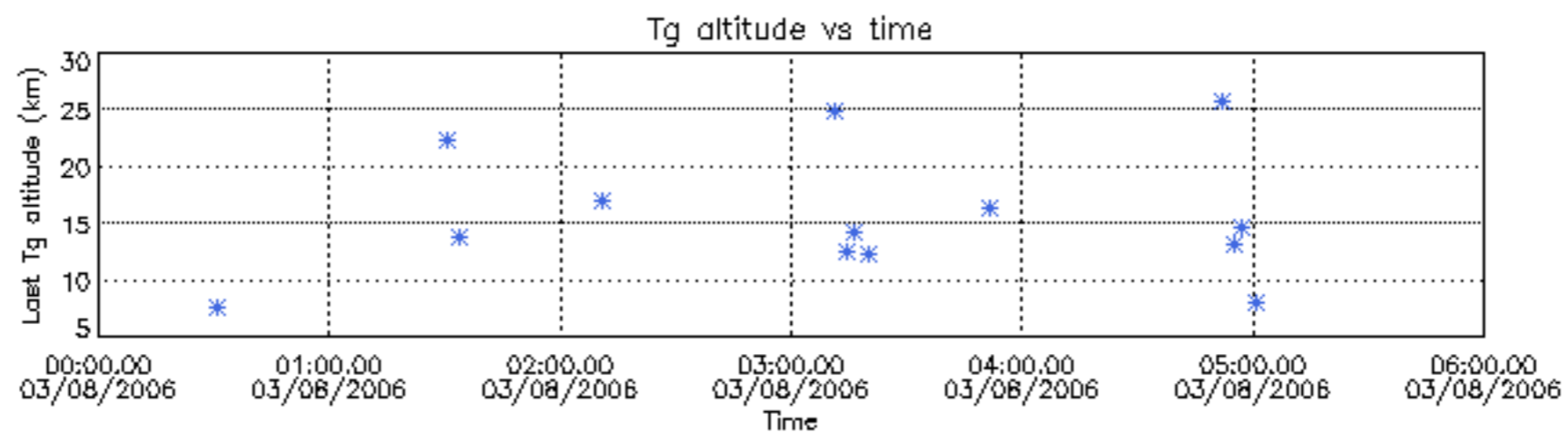
Tangent altitude at which the star is lost

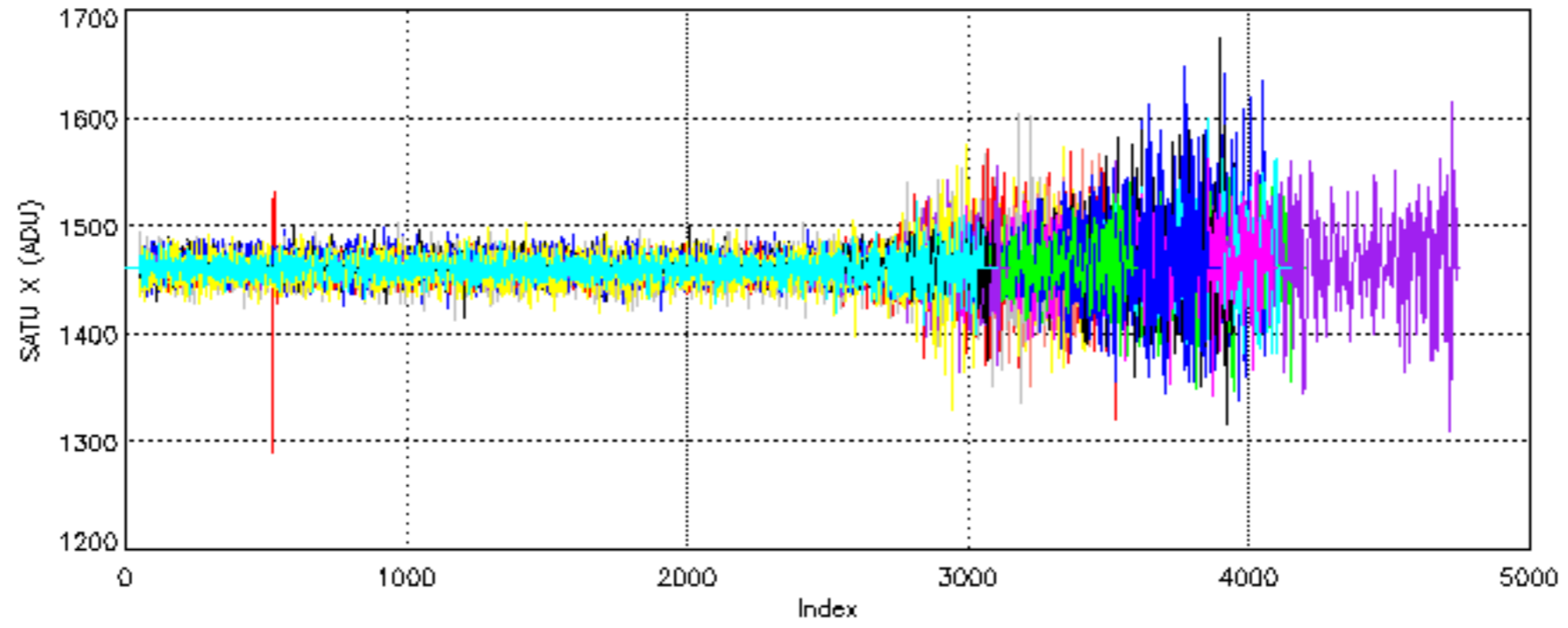


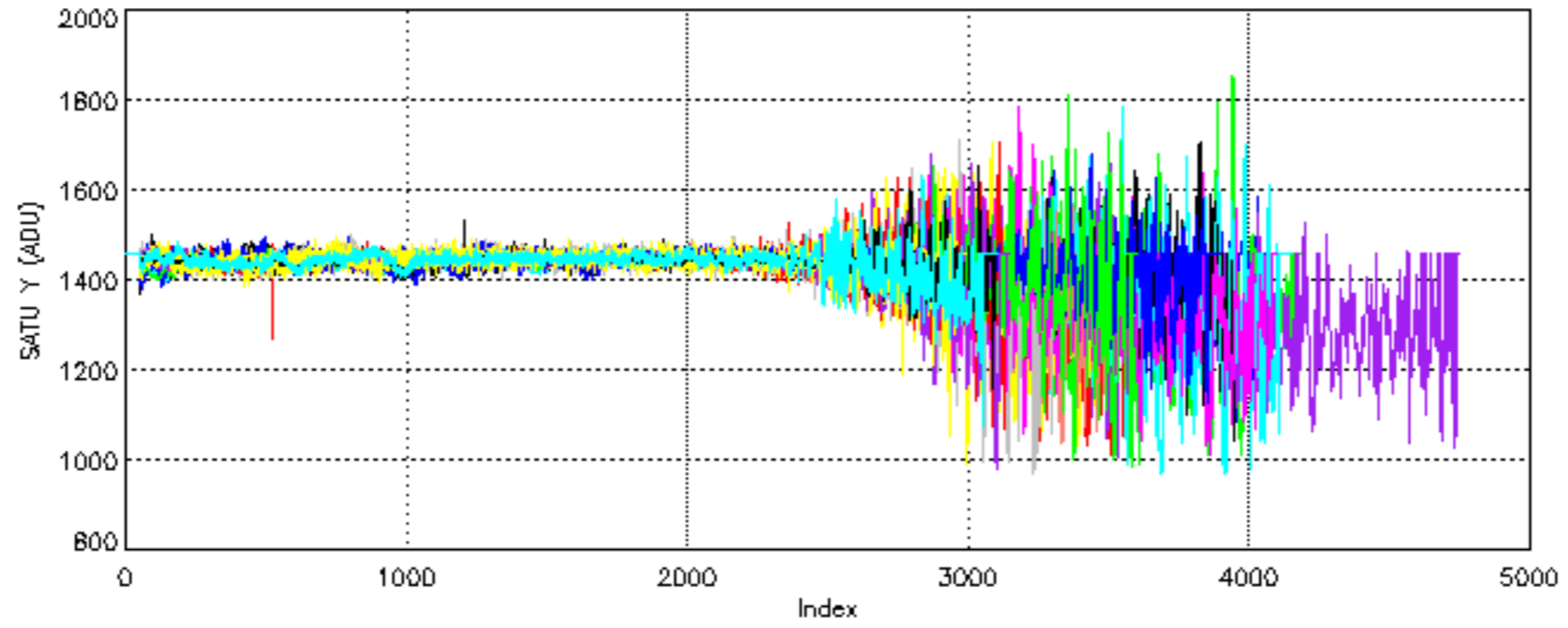
Tangent altitude at which the star is lost

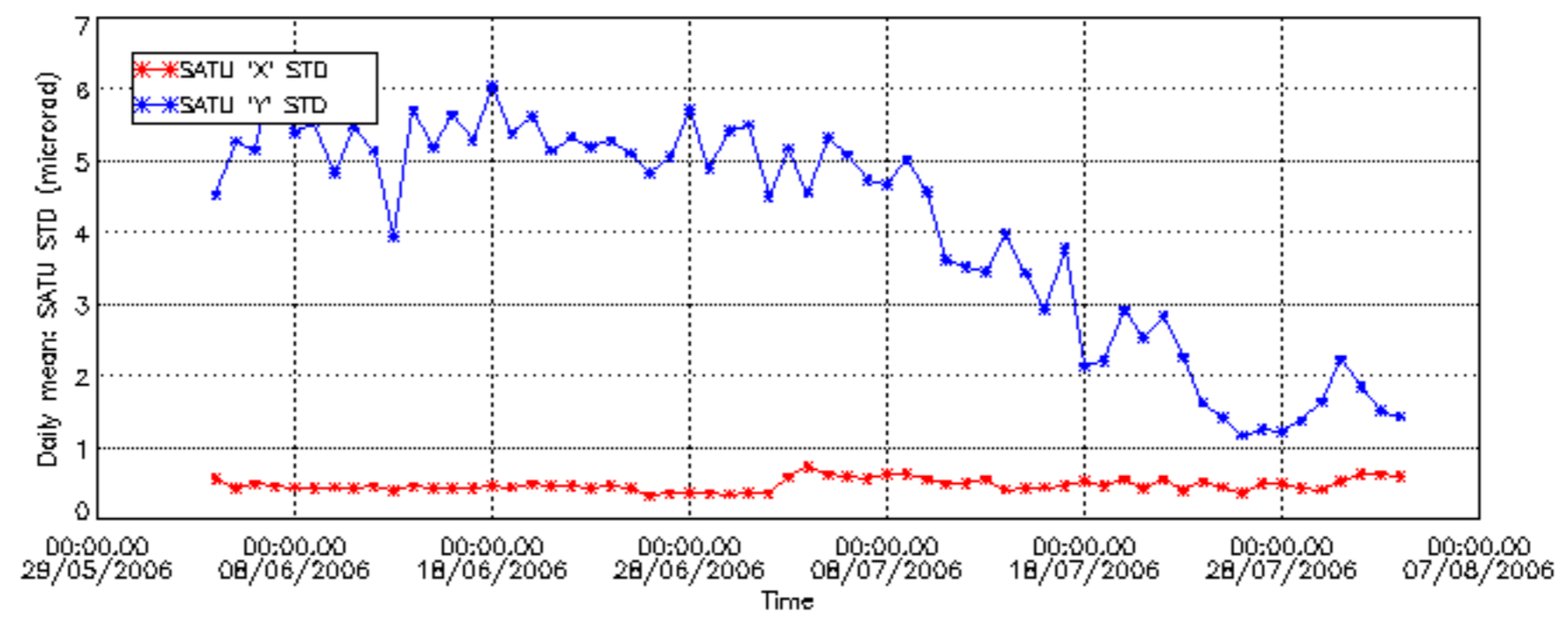


Tangent altitude at which the star is lost









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 2; 5731.6; 01-AUG-2006 01:15:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23102
 3; 6016.1; 01-AUG-2006 01:20:33; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;23102
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 6; 6960.2; 01-AUG-2006 01:36:17; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;23102
 7; 7149.2; 01-AUG-2006 01:39:26; Dark ; 38.5; 172; Gam Gru ; 3.00; 13100;occ; 77; 0;23102
 8; 8101.6; 01-AUG-2006 01:55:19; Bright; 30.5; 11; 53Alp Aql ; 0.76; 8000;occ; 61; 0;23102
 9; 8186.3; 01-AUG-2006 01:56:43; Bright; 30.0; 168; 17Zet Aql ; 2.99; 11000;occ; 60; 0;23102
 10; 8694.0; 01-AUG-2006 02:05:11; Bright; 33.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 66; 0;23102
 11; 9134.3; 01-AUG-2006 02:12:31; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;23102
 12; 9482.7; 01-AUG-2006 02:18:20; Bright; 28.5; 49; 1Alp UMi ; 1.99; 6300;occ; 57; 0;23102

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 2;-1684.0; 01-AUG-2006 02:33:25; Bright; 29.5; 107; 37The Aur ; 2.65; 11000;occ; 59; 0;23103
 3;-1515.5; 01-AUG-2006 02:36:13; Dark ; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;23103
 4;-1391.1; 01-AUG-2006 02:38:18; Dark ; 33.5; 176; 23Zet Tau ; 3.02; 22000;occ; 67; 0;23103
 5;-1171.5; 01-AUG-2006 02:41:57; Dark ; 46.0; 14; 58Alp Ori ; 0.87; 3000;occ; 92; 0;23103
 6;-1006.2; 01-AUG-2006 02:44:43; Dark ; 33.5; 30; 46Eps Ori ; 1.69; 30000;occ; 67; 0;23103
 7; -926.5; 01-AUG-2006 02:46:02; Dark ; 33.5; 125; 44Iot Ori ; 2.77; 30000;occ; 67; 0;23103
 8; -858.2; 01-AUG-2006 02:47:11; Dark ; 41.5; 7; 19Bet Ori ; 0.10; 14000;occ; 83; 0;23103
 9; -727.4; 01-AUG-2006 02:49:21; Dark ; 34.0; 101; 11Alp Lep ; 2.58; 7000;occ; 68; 0;23103
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 14; 925.2; 01-AUG-2006 03:16:54; Dark ; 39.0; 31; Alp Gru ; 1.73; 15200;occ; 78; 0;23104
 15; 1113.8; 01-AUG-2006 03:20:03; Dark ; 37.5; 172; Gam Gru ; 3.00; 13100;occ; 75; 0;23104
 16; 2065.6; 01-AUG-2006 03:35:54; Bright; 32.5; 11; 53Alp Aql ; 0.76; 8000;occ; 65; 0;23104
 17; 2150.9; 01-AUG-2006 03:37:20; Bright; 29.5; 168; 17Zet Aql ; 2.99; 11000;occ; 59; 0;23104
 18; 2658.0; 01-AUG-2006 03:45:47; Bright; 34.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 68; 0;23104
 19; 3098.3; 01-AUG-2006 03:53:07; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;23104
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 5;-1171.2; 01-AUG-2006 04:22:34; Dark ; 38.5; 14; 58Alp Ori ; 0.87; 3000;occ; 77; 0;23104
 6;-1005.8; 01-AUG-2006 04:25:19; Dark ; 35.0; 30; 46Eps Ori ; 1.69; 30000;occ; 70; 0;23104
 7; -926.2; 01-AUG-2006 04:26:39; Dark ; 33.5; 125; 44Iot Ori ; 2.77; 30000;occ; 67; 0;23104
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 9; -726.9; 01-AUG-2006 04:29:58; Dark ; 35.0; 101; 11Alp Lep ; 2.58; 7000;occ; 70; 0;23104
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 12; 312.8; 01-AUG-2006 04:47:18; Dark ; 37.0; 9; Alp Eri ; 0.45; 24000;occ; 74; 0;23105
 13; 724.0; 01-AUG-2006 04:54:09; Dark ; 36.0; 148; Alp Tuc ; 2.88; 4100;occ; 72; 0;23105
 14; 925.6; 01-AUG-2006 04:57:30; Dark ; 39.0; 31; Alp Gru ; 1.73; 15200;occ; 78; 0;23105
 15; 1114.2; 01-AUG-2006 05:00:39; Dark ; 39.0; 172; Gam Gru ; 3.00; 13100;occ; 78; 0;23105
 16; 2065.5; 01-AUG-2006 05:16:30; Bright; 34.5; 11; 53Alp Aql ; 0.76; 8000;occ; 69; 0;23105
 17; 2150.9; 01-AUG-2006 05:17:56; Bright; 29.5; 168; 17Zet Aql ; 2.99; 11000;occ; 59; 0;23105
 18; 2657.6; 01-AUG-2006 05:26:22; Bright; 34.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 68; 0;23105
 19; 3097.9; 01-AUG-2006 05:33:43; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;23105
 20; 3446.8; 01-AUG-2006 05:39:32; Bright; 27.5; 49; 1Alp UMi ; 1.99; 6300;occ; 55; 0;23105

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 3; 4521.0; 01-AUG-2006 05:57:26; Dark ; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;23105
 4; 4645.4; 01-AUG-2006 05:59:30; Dark ; 33.0; 176; 23Zet Tau ; 3.02; 22000;occ; 66; 0;23105
 5; 4865.2; 01-AUG-2006 06:03:10; Dark ; 41.5; 14; 58Alp Ori ; 0.87; 3000;occ; 83; 0;23105
 6; 5030.4; 01-AUG-2006 06:05:55; Dark ; 31.5; 30; 46Eps Ori ; 1.69; 30000;occ; 63; 0;23105
 7; 5110.3; 01-AUG-2006 06:07:15; Dark ; 30.0; 125; 44Iot Ori ; 2.77; 30000;occ; 60; 0;23105
 8; 5178.6; 01-AUG-2006 06:08:23; Dark ; 35.5; 7; 19Bet Ori ; 0.10; 14000;occ; 71; 0;23105
 9; 5309.3; 01-AUG-2006 06:10:34; Dark ; 36.0; 101; 11Alp Lep ; 2.58; 7000;occ; 72; 0;23105
 10; 5733.8; 01-AUG-2006 06:17:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23105
 11; 6019.4; 01-AUG-2006 06:22:24; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;23105
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14; 6962.3; 01-AUG-2006 06:38:07; Dark ; 37.0; 31; Alp Gru ; 1.73; 15200;occ; 74; 0;23105
15; 7150.8; 01-AUG-2006 06:41:16; Dark ; 38.5; 172; Gam Gru ; 3.00; 13100;occ; 77; 0;23105
16; 8101.6; 01-AUG-2006 06:57:06; Bright; 32.0; 11; 53Alp Aql ; 0.76; 8000;occ; 64; 0;23105
17; 8187.0; 01-AUG-2006 06:58:32; Bright; 29.5; 168; 17Zet Aql ; 2.99; 11000;occ; 59; 0;23105
18; 8693.2; 01-AUG-2006 07:06:58; Bright; 34.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 68; 0;23105
19; 9133.6; 01-AUG-2006 07:14:18; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;23105
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3; -3970.8; 01-AUG-2006 20:21:53; Bright; 32.0; 11; 53Alp Aql ; 0.76; 8000;occ; 64; 0;23114
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7; -2941.9; 01-AUG-2006 20:39:02; Bright; 53.0; 89; 5Alp Cep ; 2.45; 8000;occ; 106; 0;23114
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10; -1682.8; 01-AUG-2006 21:00:01; Bright; 47.0; 107; 37The Aur ; 2.65; 11000;occ; 94; 0;23114
11; -1513.7; 01-AUG-2006 21:02:51; Dark ; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;23114
12; -1388.6; 01-AUG-2006 21:04:56; Dark ; 36.0; 176; 23Zet Tau ; 3.02; 22000;occ; 72; 0;23114
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17; -722.8; 01-AUG-2006 21:16:01; Dark ; 34.0; 101; 11Alp Lep ; 2.58; 7000;occ; 68; 0;23114
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5; 728.4; 01-AUG-2006 21:40:13; Dark ; 34.0; 148; Alp Tuc ; 2.88; 4100;occ; 68; 0;23115
6; 930.6; 01-AUG-2006 21:43:35; Dark ; 36.5; 31; Alp Gru ; 1.73; 15200;occ; 73; 0;23115
7; 1118.9; 01-AUG-2006 21:46:43; Dark ; 38.0; 172; Gam Gru ; 3.00; 13100;occ; 76; 0;23115
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9; 2653.3; 01-AUG-2006 22:12:17; Bright; 32.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 65; 0;23115
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11; 3093.5; 01-AUG-2006 22:19:38; Bright; 34.0; 89; 5Alp Cep ; 2.45; 8000;occ; 68; 0;23115
12; 3446.5; 01-AUG-2006 22:25:31; Bright; 30.5; 49; 1Alp UMi ; 1.99; 6300;occ; 61; 0;23115
13; 4207.1; 01-AUG-2006 22:38:11; Bright; 34.0; 6; 13Alp Aur ; 0.08; 3400;occ; 68; 0;23115
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16; 4647.4; 01-AUG-2006 22:45:32; Dark ; 33.5; 176; 23Zet Tau ; 3.02; 22000;occ; 67; 0;23115
17; 4867.5; 01-AUG-2006 22:49:12; Dark ; 32.0; 14; 58Alp Ori ; 0.87; 3000;occ; 64; 0;23115
18; 5033.7; 01-AUG-2006 22:51:58; Dark ; 33.0; 30; 46Eps Ori ; 1.69; 30000;occ; 66; 0;23115
19; 5113.7; 01-AUG-2006 22:53:18; Dark ; 31.0; 125; 44Iot Ori ; 2.77; 30000;occ; 62; 0;23115
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11; 3435.0; 31-AUG-2006 18:20:56; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;23542
12; 4452.3; 31-AUG-2006 18:37:54; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;23542
13; 4913.5; 31-AUG-2006 18:45:35; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;23542
14; 5370.6; 31-AUG-2006 18:53:12; Dark ; 55.5; 1; 9Alp CMa ; -1.44; 11000;occ; 111; 0;23542
15; 5536.7; 31-AUG-2006 18:55:58; Dark ; 43.0; 23; 21Eps CMa ; 1.50; 26000;occ; 86; 0;23542
16; 5632.5; 31-AUG-2006 18:57:34; Dark ; 41.5; 117; Pi Pup ; 2.71; 3800;occ; 83; 0;23542
17; 5756.3; 31-AUG-2006 18:59:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23542
18; 5942.2; 31-AUG-2006 19:02:44; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;23542
19; 6560.5; 31-AUG-2006 19:13:02; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;23542
20; 6637.1; 31-AUG-2006 19:14:18; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;23542
21; 7119.4; 31-AUG-2006 19:22:21; Dark ; 5.0; 31; Alp Gru ; 1.73; 15200;occ; 10; 0;23542
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3; 1618.8; 31-AUG-2006 19:31:16; Dark ; 51.5; 142; 49Del Cap ; 2.85; 8900;occ; 103; 0;23543
4; 1807.2; 31-AUG-2006 19:34:25; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;23543
5; 1896.0; 31-AUG-2006 19:35:53; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;23543
6; 2076.1; 31-AUG-2006 19:38:53; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;23543
7; 2487.9; 31-AUG-2006 19:45:45; Bright; 34.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 68; 0;23543
8; 2600.2; 31-AUG-2006 19:47:38; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;23543
9; 2678.4; 31-AUG-2006 19:48:56; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;23543

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12;	4452.2;	31-AUG-2006	20:18:29;	Bright;	35.5;	24;	66Alp Gem	;	1.58;	10200;occ;	71;	0;23543
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