

GOMOS Daily Report 07-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	09AUG2006 04:34:12
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (07AUG2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (08AUG2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	11

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

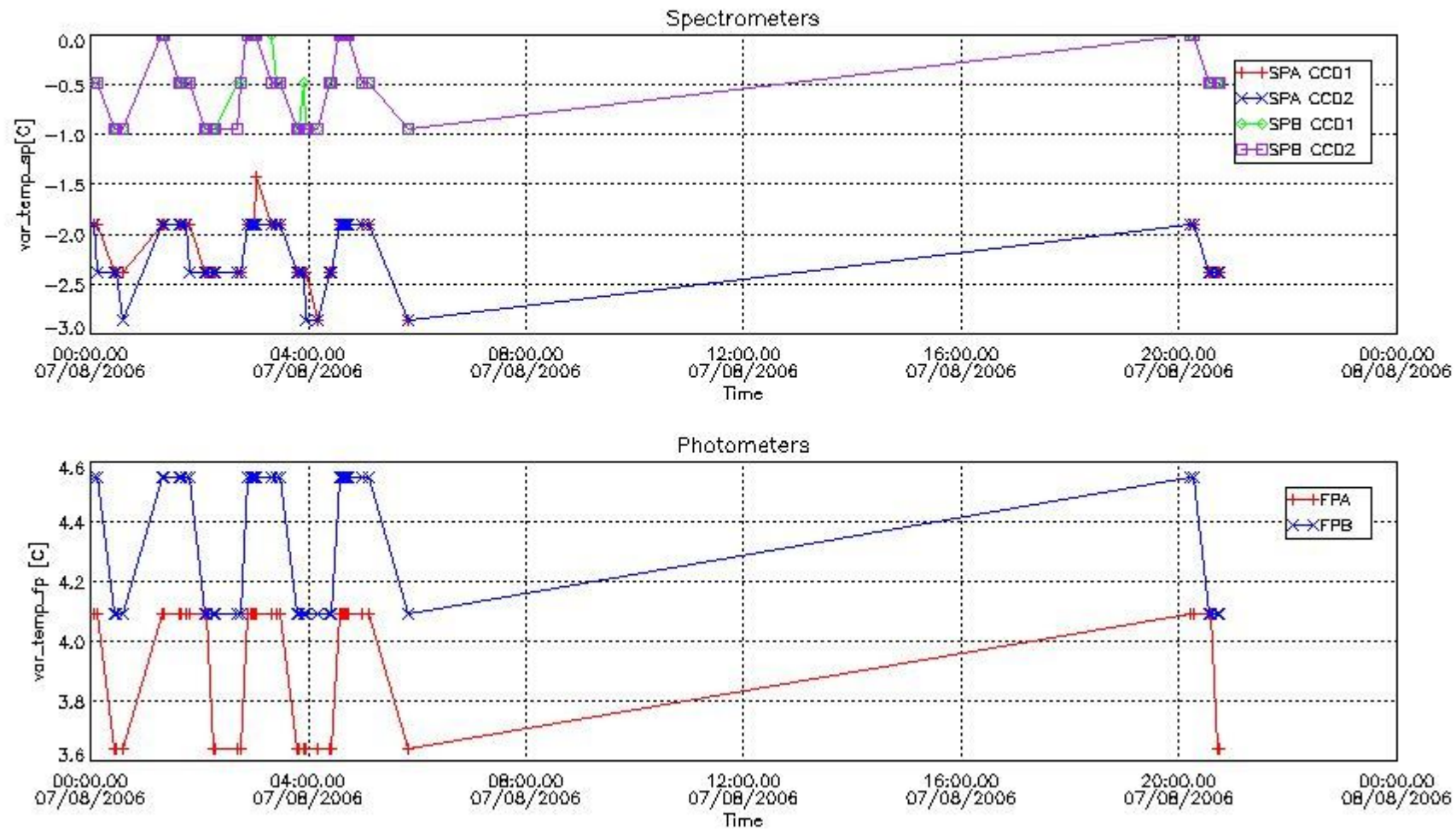
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20060807_000425_000000322050_00088_23188_0006.N1	07-AUG-2006 00:04:25	Twilight	32.000	148	Alp Tuc	2.8780	4100.0	64	23188	No
2	GOM_TRA_1PNPDE20060807_000752_000000412050_00088_23188_0007.N1	07-AUG-2006 00:07:52	Bright	41.000	31	Alp Gru	1.7340	15200.	82	23188	No
3	GOM_TRA_1PNPDE20060807_002609_000000312050_00088_23188_0008.N1	07-AUG-2006 00:26:09	Bright	30.500	11	53Alp Aql	0.76500	8000.0	61	23188	Yes
4	GOM_TRA_1PNPDE20060807_002745_000000292050_00088_23188_0009.N1	07-AUG-2006 00:27:45	Bright	29.000	168	17Zet Aql	2.9860	11000.	58	23188	Yes
5	GOM_TRA_1PNPDE20060807_003451_000000292050_00088_23188_0010.N1	07-AUG-2006 00:34:51	Bright	28.500	5	3Alp Lyr	0.033000	11000.	57	23188	No
6	GOM_TRA_1PNPDE20060807_003634_000000302050_00088_23188_0011.N1	07-AUG-2006 00:36:34	Bright	30.000	144	18Del Cyg	2.8600	11000.	60	23188	Yes
7	GOM_TRA_1PNPDE20060807_011813_000000342050_00088_23188_0000.N1	07-AUG-2006 01:18:13	Dark	34.000	56	53Kap Ori	2.0650	30000.	68	23188	No
8	GOM_TRA_1PNPDE20060807_011946_000000322050_00088_23188_0001.N1	07-AUG-2006 01:19:46	Dark	31.500	47	2Bet CMa	1.9760	28000.	63	23188	No
9	GOM_TRA_1PNPDE20060807_012147_000000382050_00088_23188_0002.N1	07-AUG-2006 01:21:47	Dark	38.000	139	9Bet Lep	2.8330	5600.0	76	23188	No
10	GOM_TRA_1PNPDE20060807_013833_000000402050_00089_23189_0003.N1	07-AUG-2006 01:38:33	Dark	39.500	9	Alp Eri	0.45300	24000.	79	23189	No
11	GOM_TRA_1PNPDE20060807_013955_000000312050_00089_23189_0004.N1	07-AUG-2006 01:39:55	Dark	31.000	135	Bet Hyi	2.8200	5800.0	62	23189	No
12	GOM_TRA_1PNPDE20060807_014501_000000352050_00089_23189_0005.N1	07-AUG-2006 01:45:01	Twilight	34.500	148	Alp Tuc	2.8780	4100.0	69	23189	No
13	GOM_TRA_1PNPDE20060807_014829_000000432050_00089_23189_0006.N1	07-AUG-2006 01:48:29	Bright	43.000	31	Alp Gru	1.7340	15200.	86	23189	No
14	GOM_TRA_1PNPDE20060807_020645_000000312050_00089_23189_0007.N1	07-AUG-2006 02:06:45	Bright	30.500	11	53Alp Aql	0.76500	8000.0	61	23189	No
15	GOM_TRA_1PNPDE20060807_020820_000000292050_00089_23189_0008.N1	07-AUG-2006 02:08:20	Bright	29.000	168	17Zet Aql	2.9860	11000.	58	23189	No
16	GOM_TRA_1PNPDE20060807_021527_000000292050_00089_23189_0009.N1	07-AUG-2006 02:15:27	Bright	29.000	5	3Alp Lyr	0.033000	11000.	58	23189	No
17	GOM_TRA_1PNPDE20060807_021710_000000312050_00089_23189_0010.N1	07-AUG-2006 02:17:10	Bright	31.000	144	18Del Cyg	2.8600	11000.	62	23189	Yes
18	GOM_TRA_1PNPDE20060807_024246_000000302050_00089_23189_0000.N1	07-AUG-2006 02:42:46	Bright	29.500	42	34Bet Aur	1.9000	10200.	59	23189	No
19	GOM_TRA_1PNPDE20060807_024504_000000482050_00089_23189_0001.N1	07-AUG-2006 02:45:04	Twilight	48.000	107	37The Aur	2.6490	11000.	96	23189	No
20	GOM_TRA_1PNPDE20060807_025351_000000352050_00089_23189_0002.N1	07-AUG-2006 02:53:51	Twilight	35.000	14	58Alp Ori	0.87000	3000.0	70	23189	No
21	GOM_TRA_1PNPDE20060807_025645_000000382050_00089_23189_0003.N1	07-AUG-2006 02:56:45	Dark	38.000	30	46Eps Ori	1.6940	30000.	76	23189	No
22	GOM_TRA_1PNPDE20060807_025850_000000352050_00089_23189_0004.N1	07-AUG-2006 02:58:50	Dark	34.500	56	53Kap Ori	2.0650	30000.	69	23189	No
23	GOM_TRA_1PNPDE20060807_030023_000000302050_00089_23189_0005.N1	07-AUG-2006 03:00:23	Dark	30.000	47	2Bet CMa	1.9760	28000.	60	23189	No
24	GOM_TRA_1PNPDE20060807_030223_000000392050_00089_23189_0006.N1	07-AUG-2006 03:02:23	Dark	39.000	139	9Bet Lep	2.8330	5600.0	78	23189	No
25	GOM_TRA_1PNPDE20060807_031910_000000382050_00090_23190_0007.N1	07-AUG-2006 03:19:10	Dark	38.000	9	Alp Eri	0.45300	24000.	76	23190	No
26	GOM_TRA_1PNPDE20060807_032538_000000402050_00090_23190_0008.N1	07-AUG-2006 03:25:38	Twilight	39.500	148	Alp Tuc	2.8780	4100.0	79	23190	No
27	GOM_TRA_1PNPDE20060807_032905_000000402050_00090_23190_0009.N1	07-AUG-2006 03:29:05	Bright	40.000	31	Alp Gru	1.7340	15200.	80	23190	No
28	GOM_TRA_1PNPDE20060807_034721_000000312050_00090_23190_0010.N1	07-AUG-2006 03:47:21	Bright	31.000	11	53Alp Aql	0.76500	8000.0	62	23190	Yes
29	GOM_TRA_1PNPDE20060807_034856_000000302050_00090_23190_0011.N1	07-AUG-2006 03:48:56	Bright	30.000	168	17Zet Aql	2.9860	11000.	60	23190	No
30	GOM_TRA_1PNPDE20060807_035604_000000292050_00090_23190_0012.N1	07-AUG-2006 03:56:04	Bright	29.000	5	3Alp Lyr	0.033000	11000.	58	23190	No
31	GOM_TRA_1PNPDE20060807_035746_000000312050_00090_23190_0013.N1	07-AUG-2006 03:57:46	Bright	31.000	144	18Del Cyg	2.8600	11000.	62	23190	Yes
32	GOM_TRA_1PNPDE20060807_041024_000000272050_00090_23190_0014.N1	07-AUG-2006 04:10:24	Bright	27.000	49	1Alp UMi	1.9900	6300.0	54	23190	No
33	GOM_TRA_1PNPDE20060807_042322_000000322050_00090_23190_0000.N1	07-AUG-2006 04:23:22	Bright	31.500	42	34Bet Aur	1.9000	10200.	63	23190	No
34	GOM_TRA_1PNPDE20060807_042540_000000302050_00090_23190_0001.N1	07-AUG-2006 04:25:40	Twilight	30.000	107	37The Aur	2.6490	11000.	60	23190	No
35	GOM_TRA_1PNPDE20060807_043428_000000362050_00090_23190_0002.N1	07-AUG-2006 04:34:28	Twilight	36.000	14	58Alp Ori	0.87000	3000.0	72	23190	No
36	GOM_TRA_1PNPDE20060807_043721_000000362050_00090_23190_0003.N1	07-AUG-2006 04:37:21	Dark	36.000	30	46Eps Ori	1.6940	30000.	72	23190	No
37	GOM_TRA_1PNPDE20060807_043926_000000322050_00090_23190_0004.N1	07-AUG-2006 04:39:26	Dark	31.500	56	53Kap Ori	2.0650	30000.	63	23190	No
38	GOM_TRA_1PNPDE20060807_044059_000000302050_00090_23190_0005.N1	07-AUG-2006 04:40:59	Dark	29.500	47	2Bet CMa	1.9760	28000.	59	23190	No
39	GOM_TRA_1PNPDE20060807_044259_000000392050_00090_23190_0006.N1	07-AUG-2006 04:42:59	Dark	39.000	139	9Bet Lep	2.8330	5600.0	78	23190	No
40	GOM_TRA_1PNPDE20060807_044418_000000332050_00090_23190_0007.N1	07-AUG-2006 04:44:18	Dark	33.000	177	1Zet CMa	3.0220	26000.	66	23190	No
41	GOM_TRA_1PNPDE20060807_045946_000000362050_00091_23191_0008.N1	07-AUG-2006 04:59:46	Dark	36.000	9	Alp Eri	0.45300	24000.	72	23191	No
42	GOM_TRA_1PNPDE20060807_050614_000000342050_00091_23191_0009.N1	07-AUG-2006 05:06:14	Twilight	34.000	148	Alp Tuc	2.8780	4100.0	68	23191	No

43	GOM_TRA_1PNPDE20060807_055100_000000292050_00091_23191_0000.N1	07-AUG-2006 05:51:00	Bright	29.000	49	1Alp UMi	1.9900	6300.0	58	23191	Yes
44	GOM_TRA_1PNPDE20060807_201141_000000342050_00100_23200_0000.N1	07-AUG-2006 20:11:41	Twilight	33.500	148	Alp Tuc	2.8780	4100.0	67	23200	No
45	GOM_TRA_1PNPDE20060807_201509_000000442050_00100_23200_0001.N1	07-AUG-2006 20:15:09	Bright	44.000	31	Alp Gru	1.7340	15200.	88	23200	No
46	GOM_TRA_1PNPDE20060807_203321_000000302050_00100_23200_0002.N1	07-AUG-2006 20:33:21	Bright	30.000	11	53Alp Aql	0.76500	8000.0	60	23200	Yes
47	GOM_TRA_1PNPDE20060807_203458_000000292050_00100_23200_0003.N1	07-AUG-2006 20:34:58	Bright	28.500	168	17Zet Aql	2.9860	11000.	57	23200	Yes
48	GOM_TRA_1PNPDE20060807_204205_000000312050_00100_23200_0004.N1	07-AUG-2006 20:42:05	Bright	30.500	5	3Alp Lyr	0.033000	11000.	61	23200	Yes
49	GOM_TRA_1PNPDE20060807_204344_000000312050_00100_23200_0005.N1	07-AUG-2006 20:43:44	Bright	31.000	144	18Del Cyg	2.8600	11000.	62	23200	Yes

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).

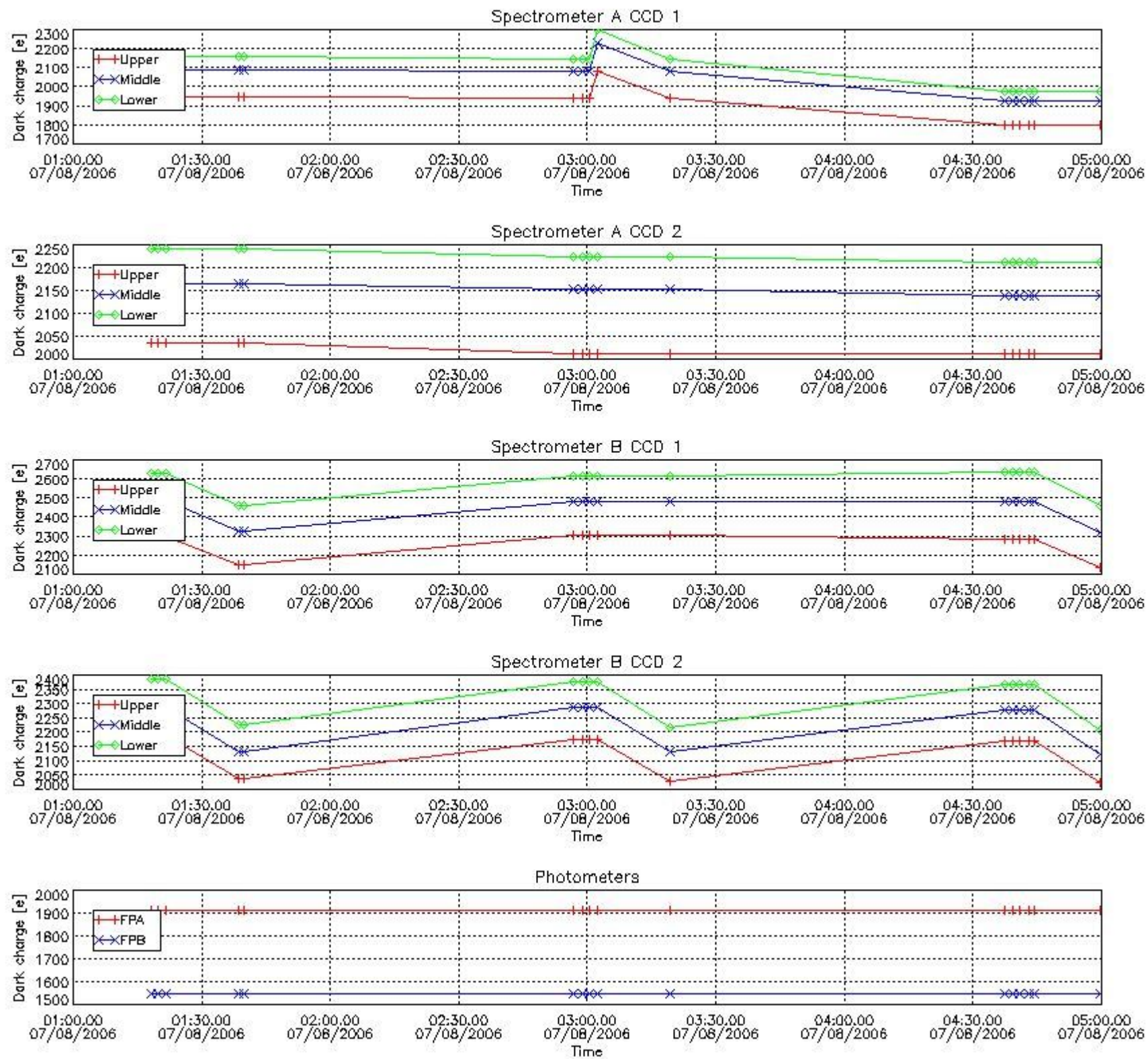
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20060807_055100_000000292050_00091_23191_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20060807_201141_000000342050_00100_23200_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20060807_201509_000000442050_00100_23200_0001.N1	DC map used (0)

GOM_TRA_1PNPDE20060807_203321_000000302050_00100_23200_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20060807_203458_000000292050_00100_23200_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20060807_204205_000000312050_00100_23200_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20060807_204344_000000312050_00100_23200_0005.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

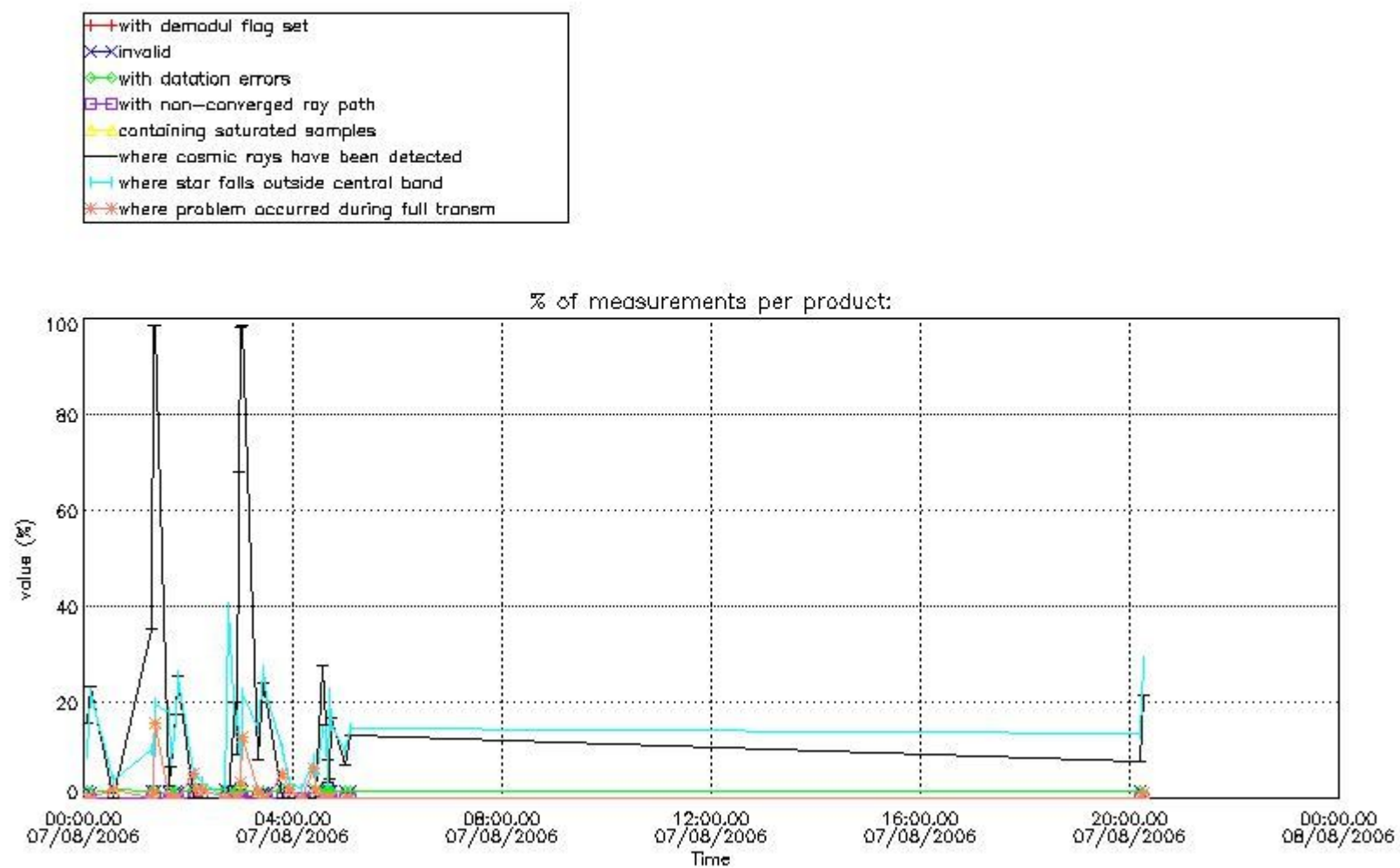
In this section it is presented the modulation information extracted from the pcd (product confidence data)

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.

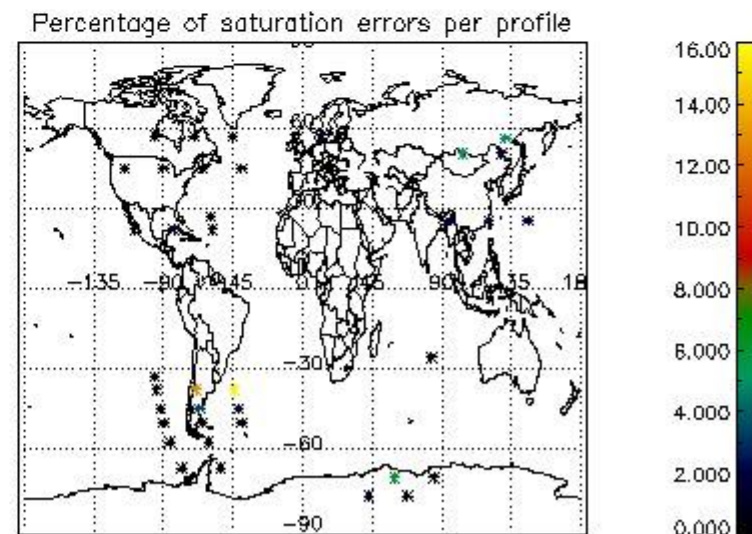
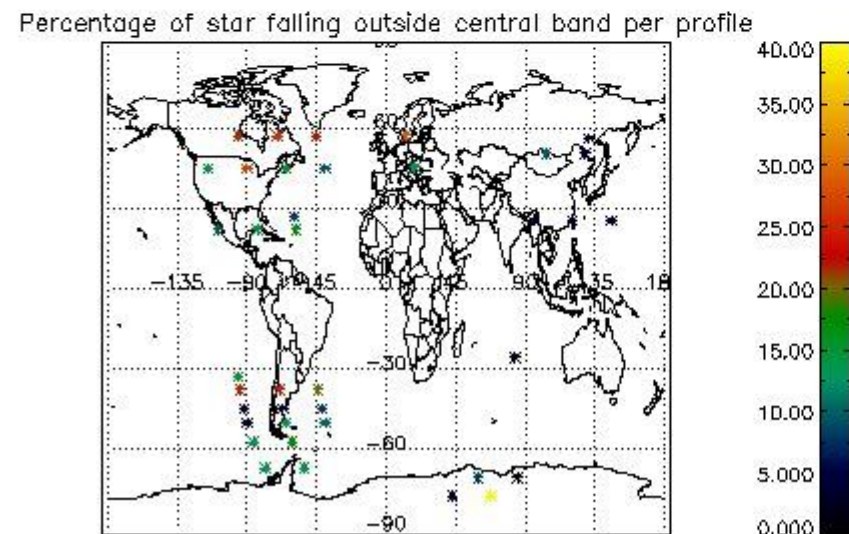
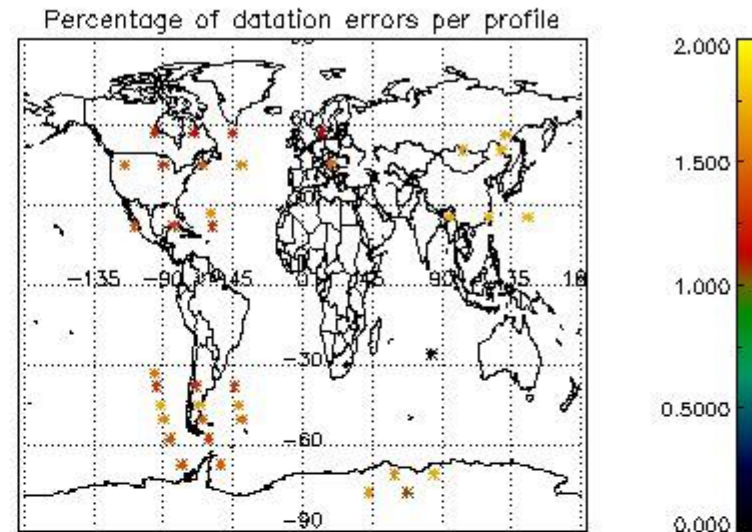
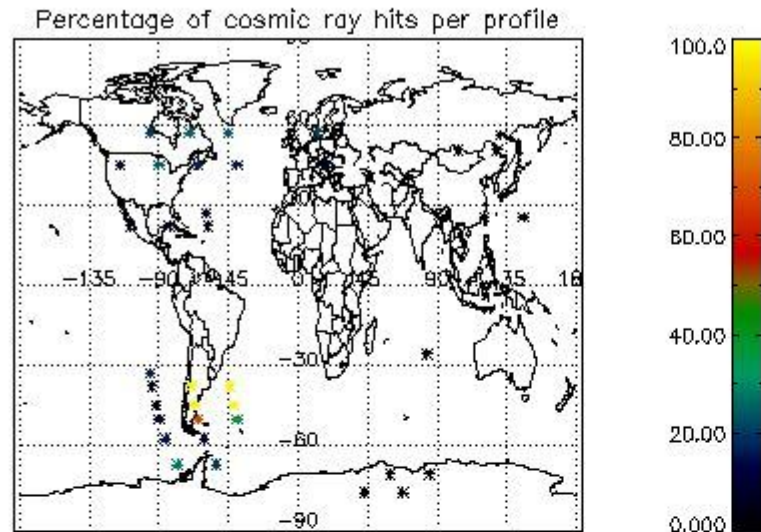
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	10.5263 %
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)



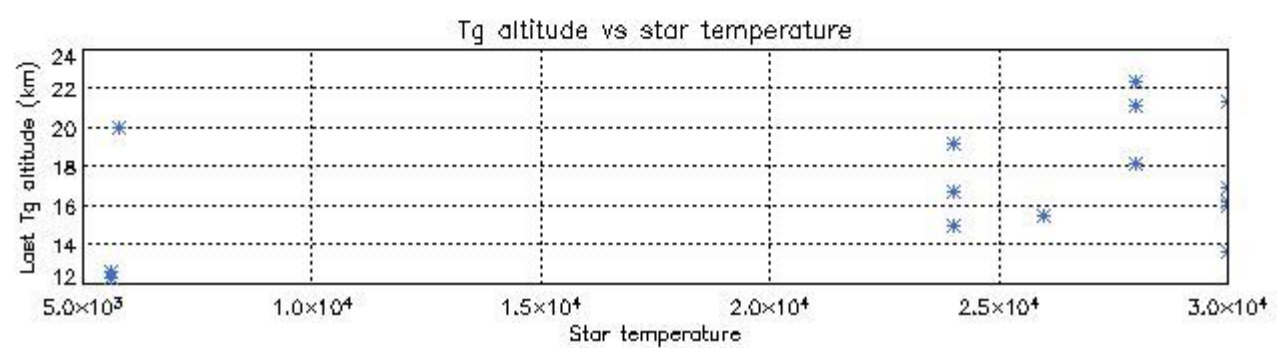
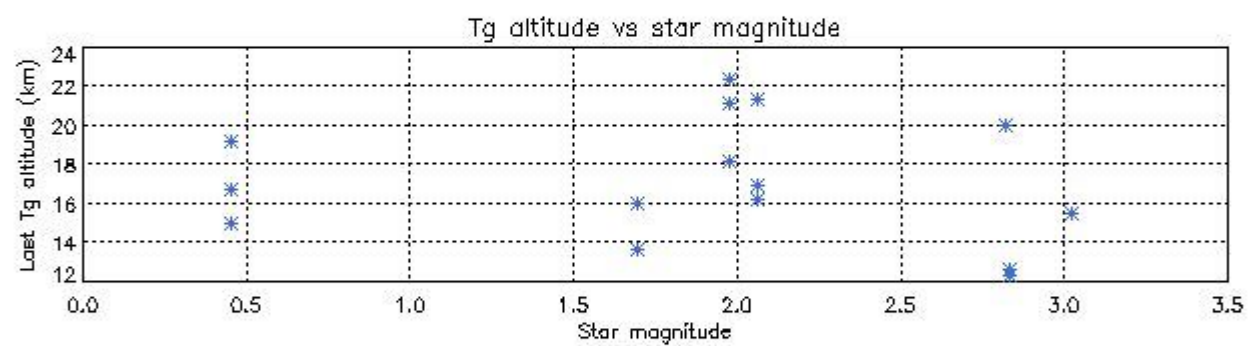
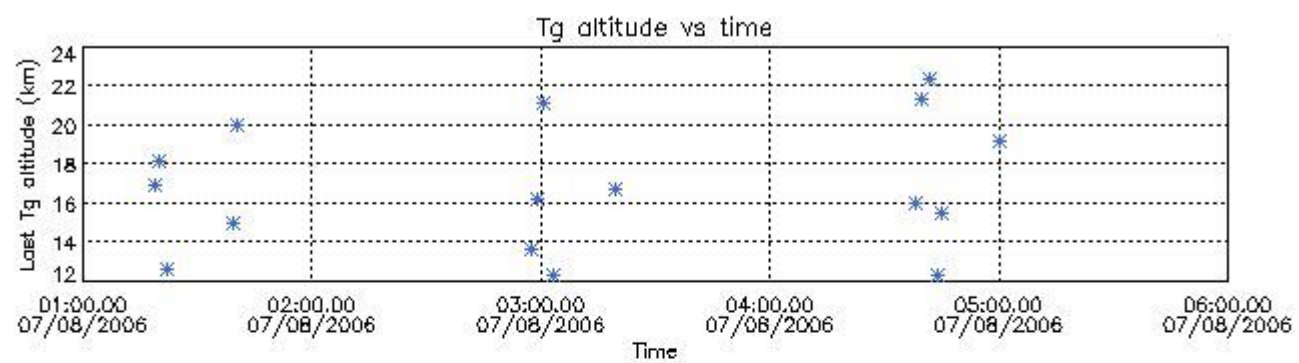
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.839	19.433	15.877
St. deviation:	3.2949	6.2893	5.5889
Maximum:	22.377	28.819	24.017
Minimum:	12.317	8.6177	4.6080
Number of data:	16.000	13.000	9.0000

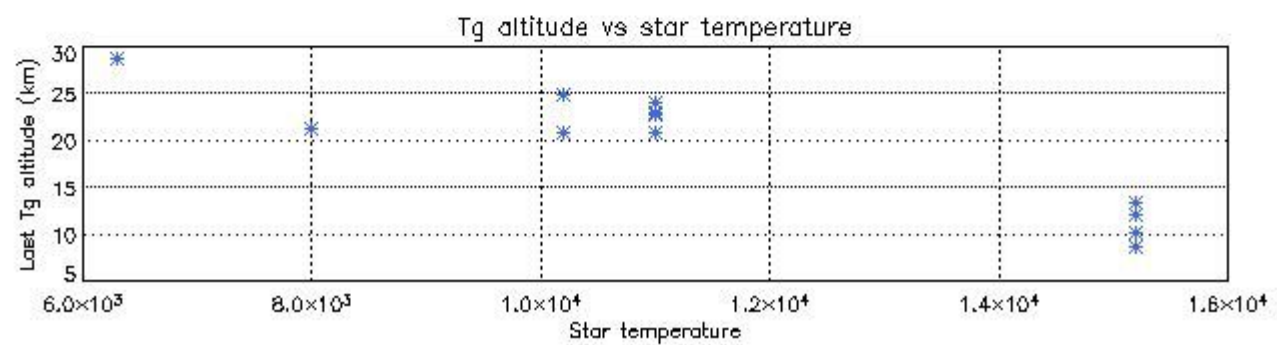
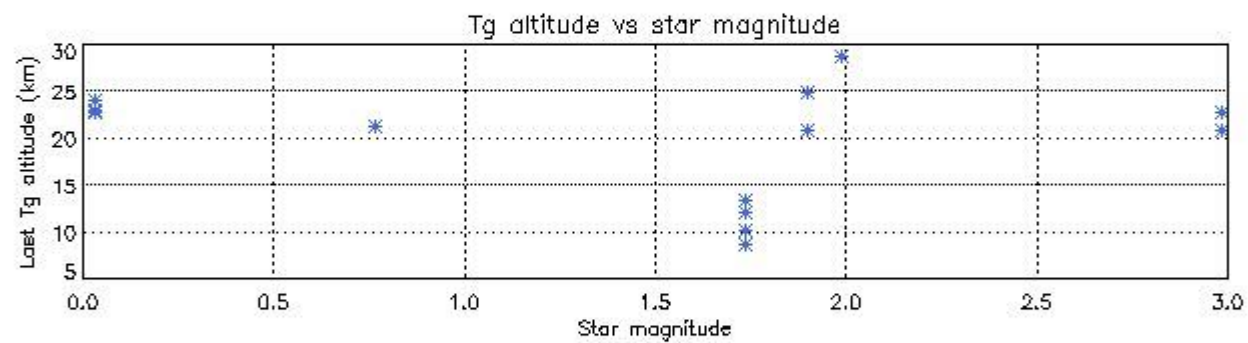
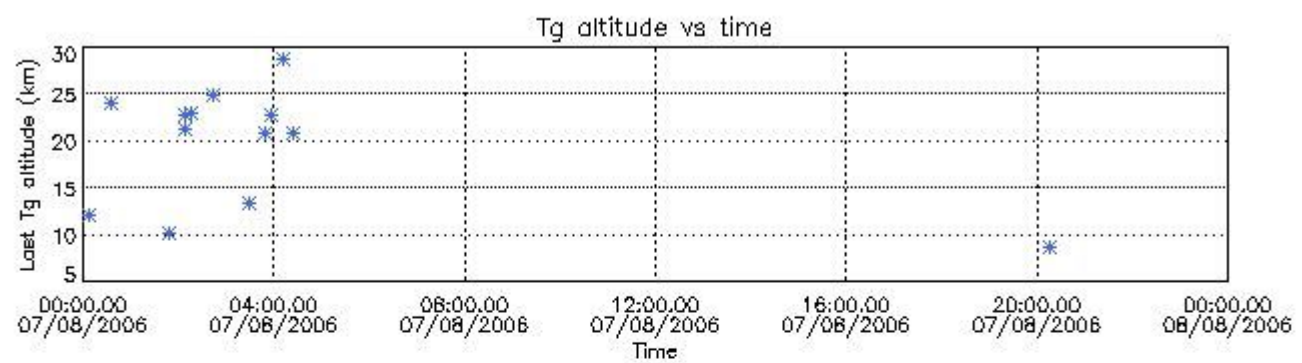
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



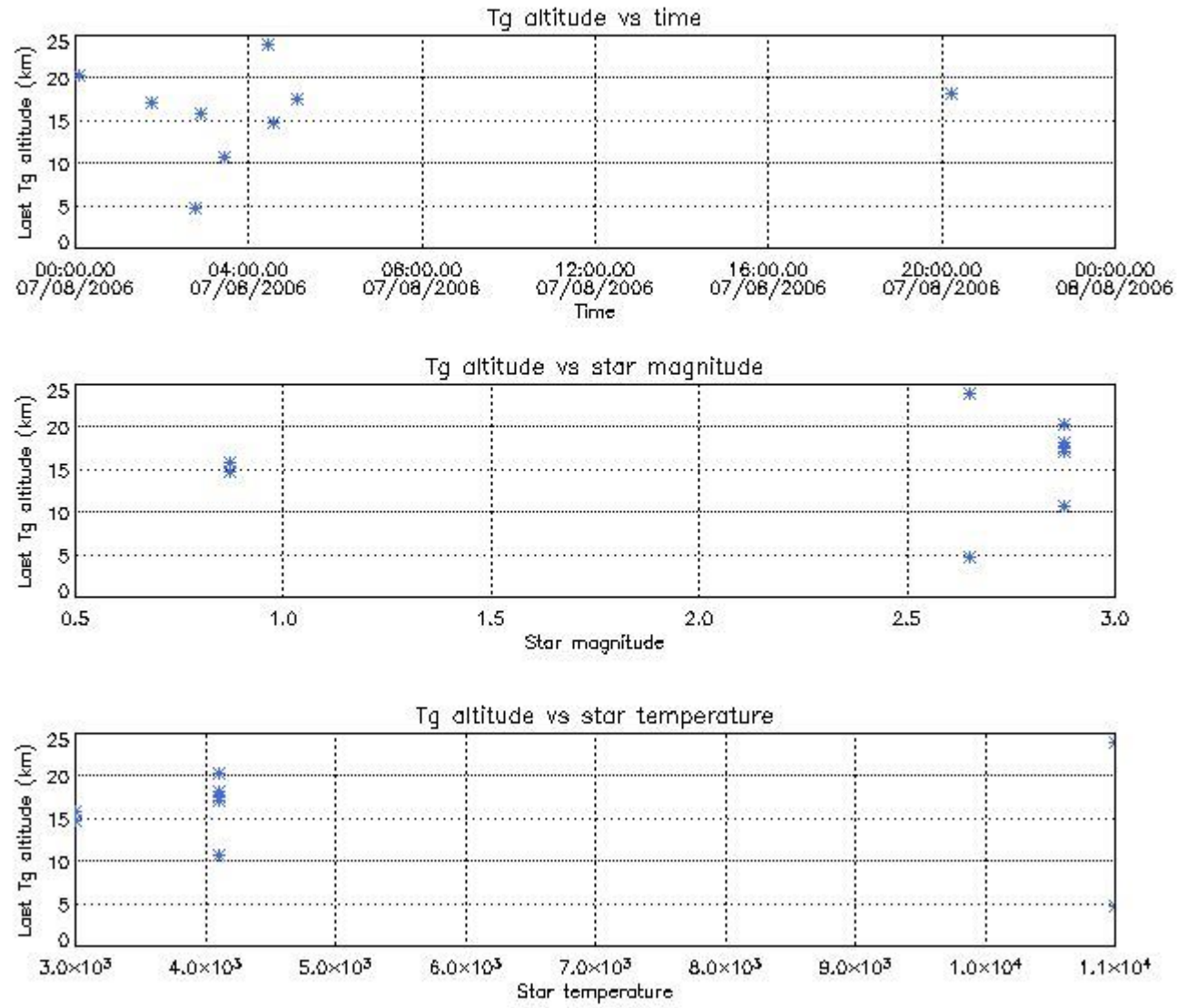
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

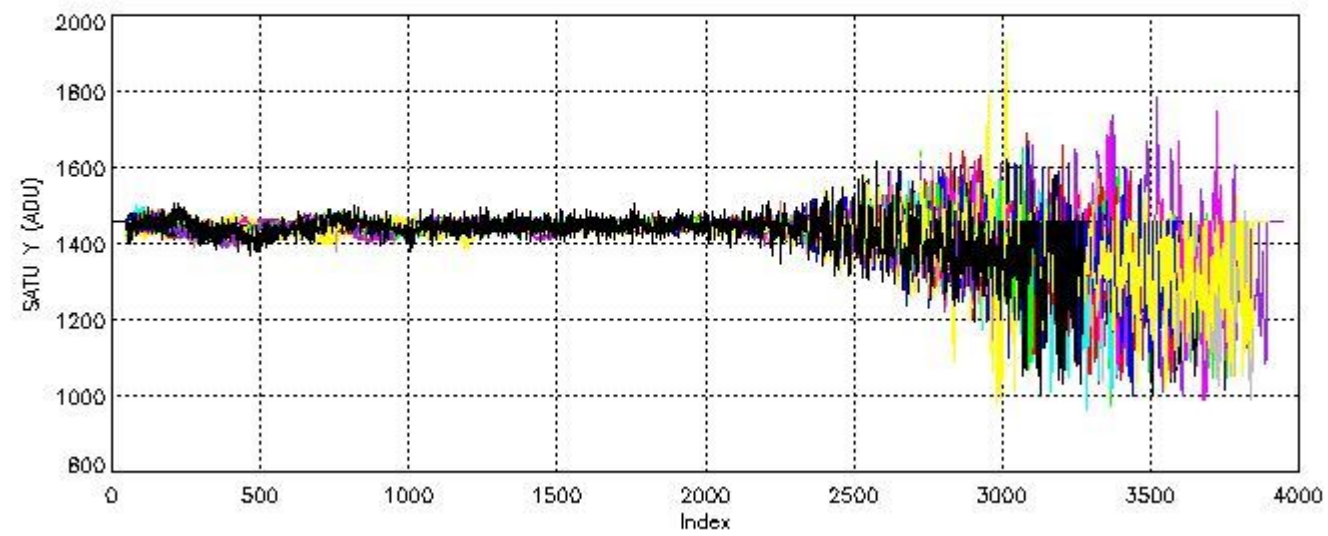
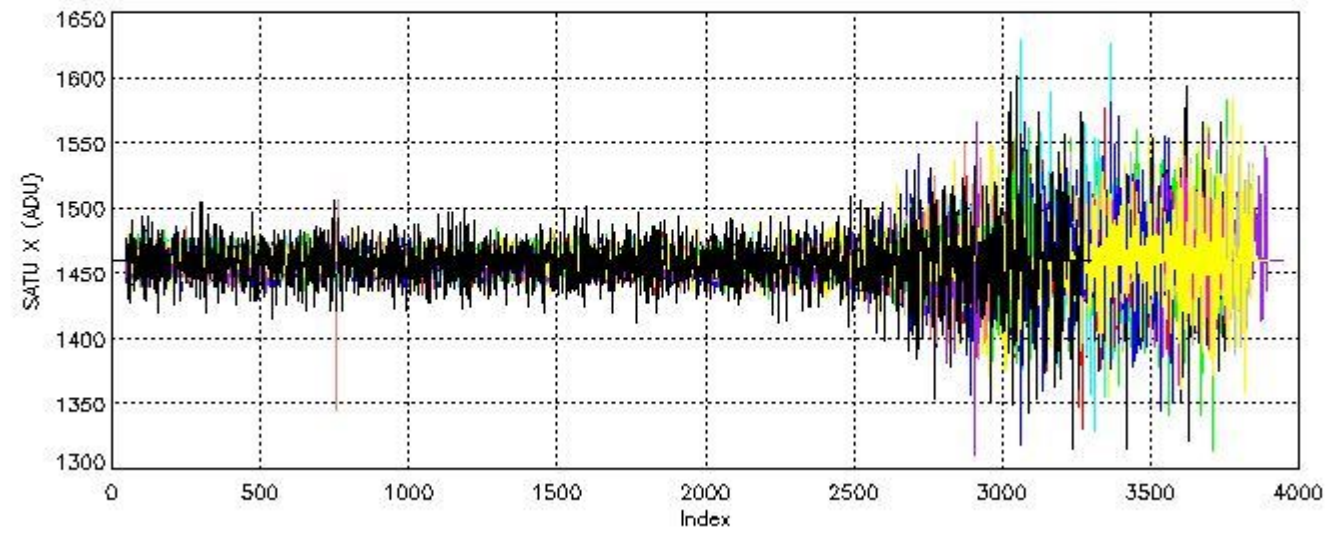


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

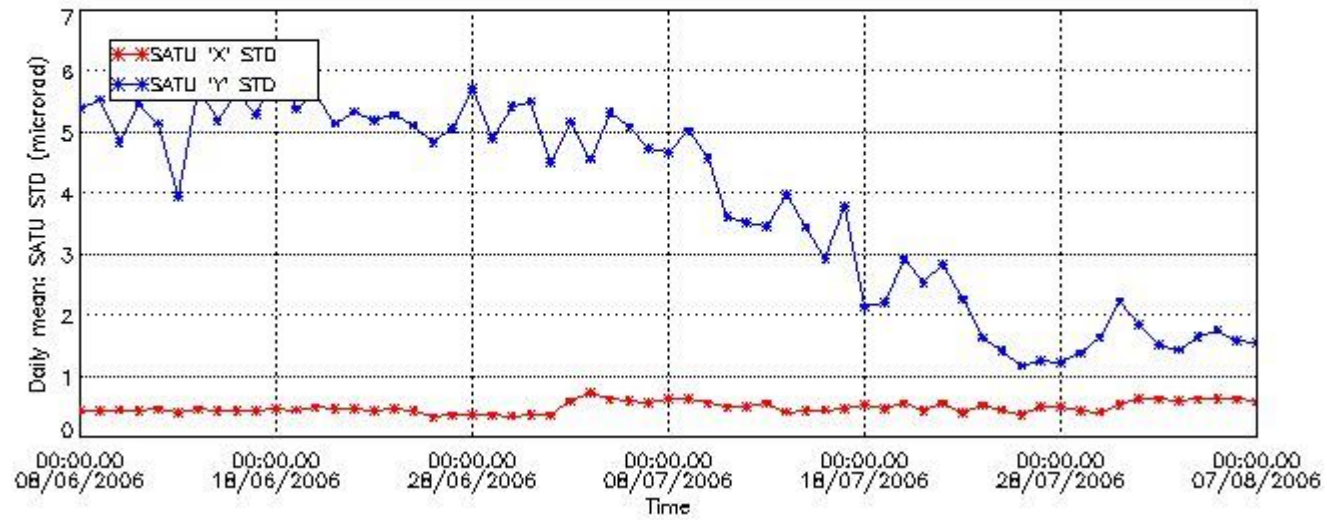
7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.2	1446.5	1460.7	1439.1
St. deviation:	5.7751	15.533	5.6214	14.957
Maximum:	1496.0	1507.0	1501.0	1497.0
Minimum:	1457.0	1400.0	1450.0	1393.0

Number of data:	5500.0	5500.0	3650.0	3650.0
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7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

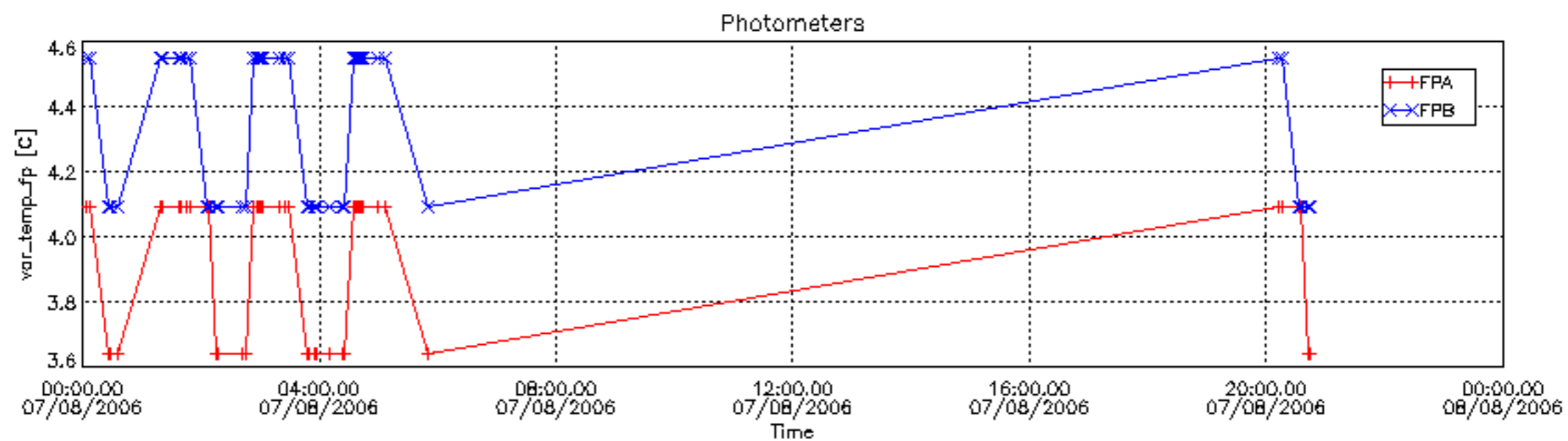
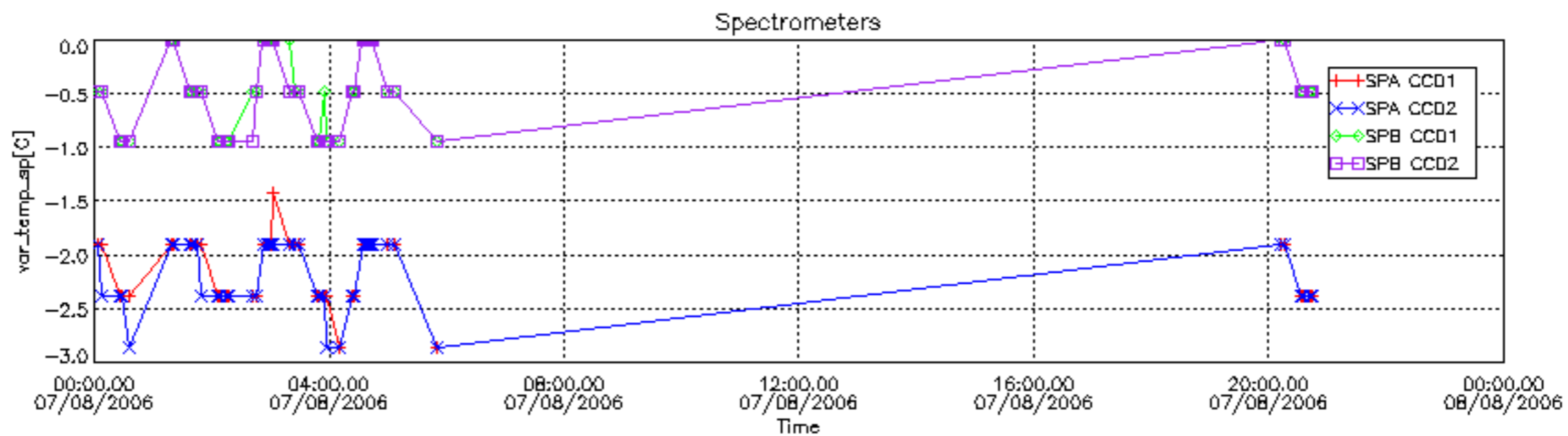
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

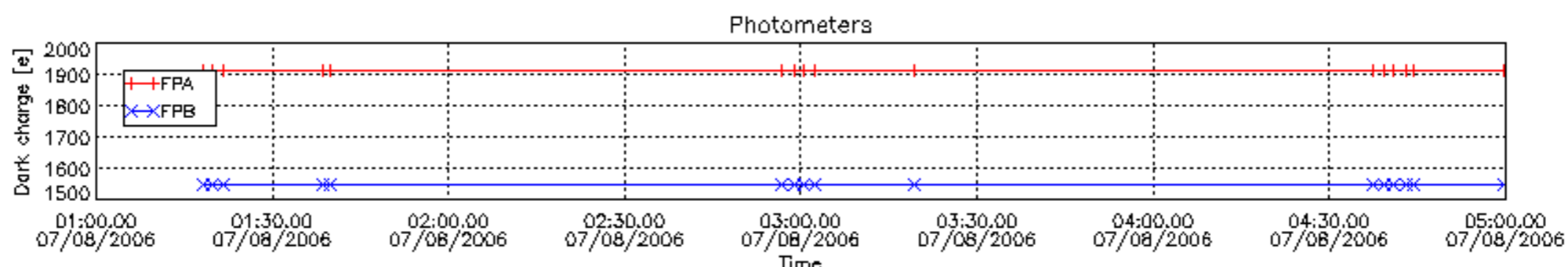
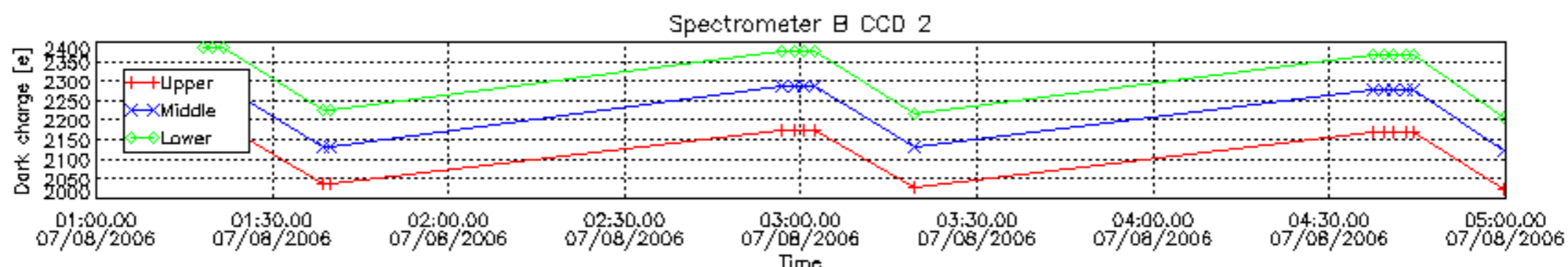
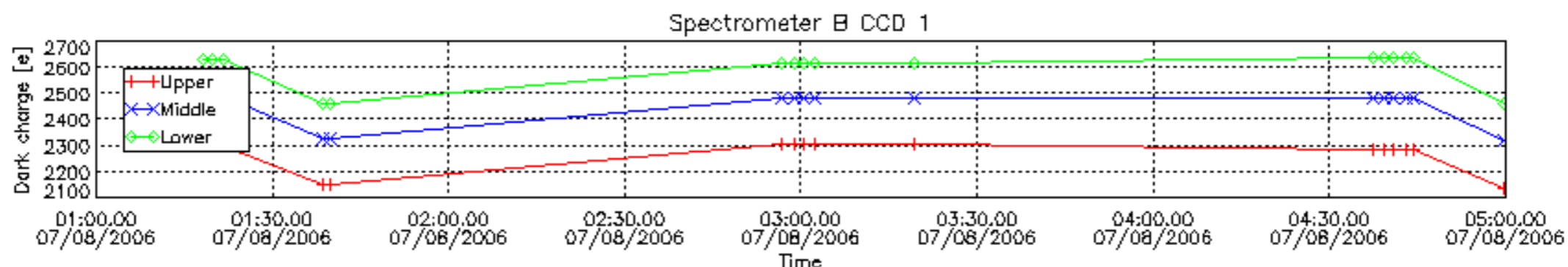
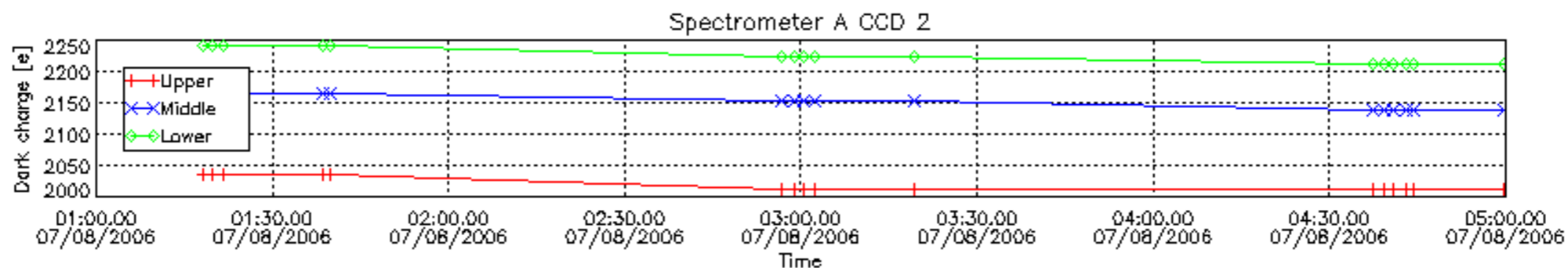
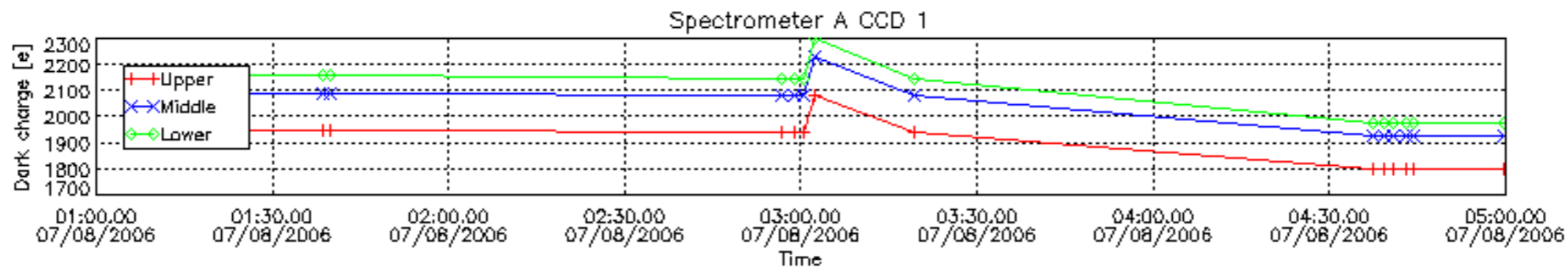


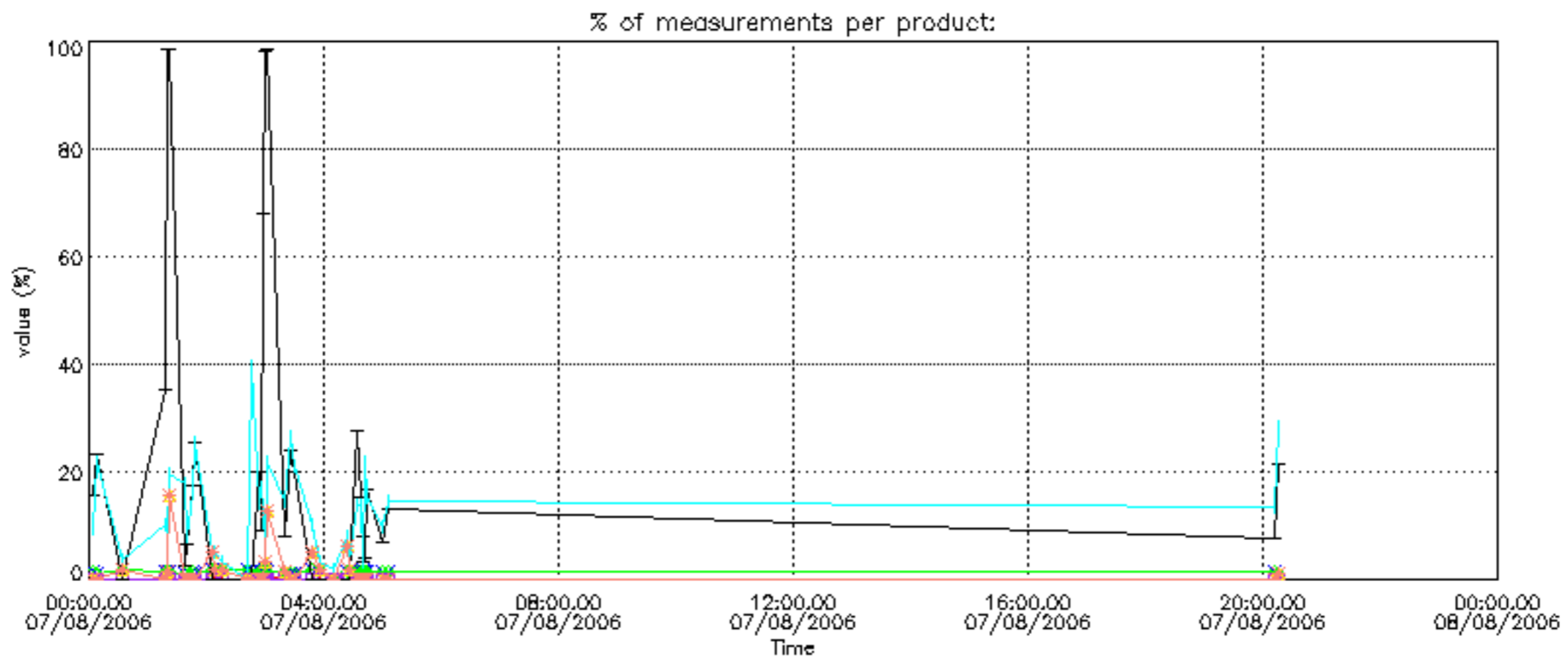
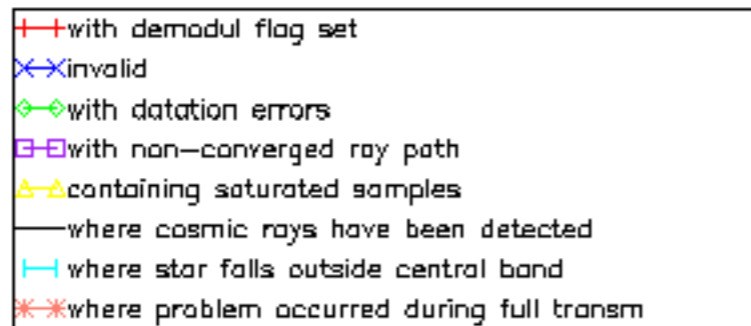
8. Auxiliary Data Files used for the production reported in section 2.2

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.

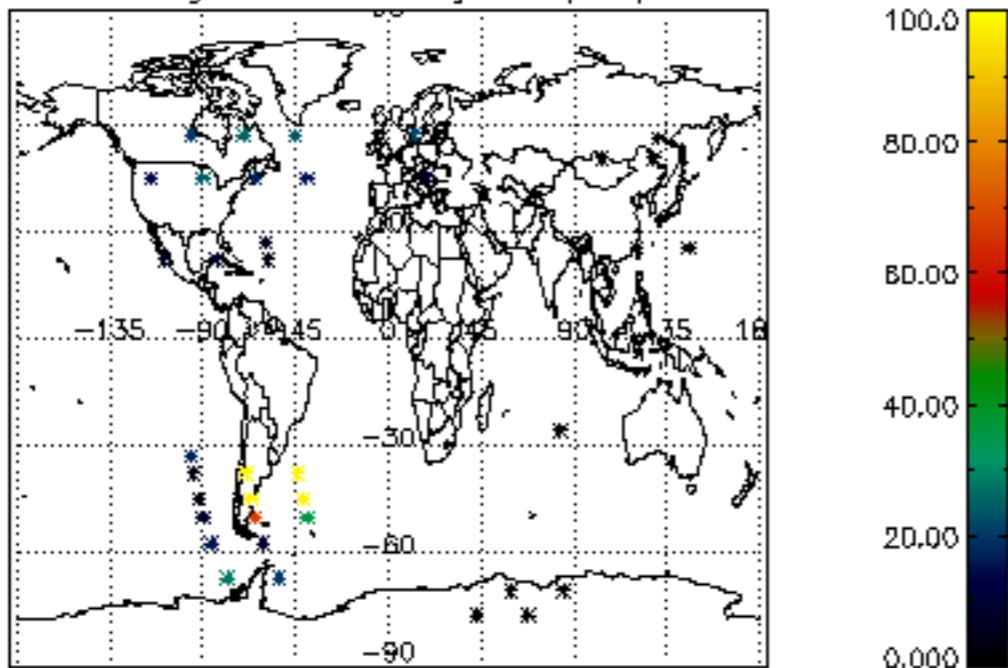
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060803_100855_20060801_000000_20100101_000000	1	07-AUG-2006 00:04:25
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	07-AUG-2006 00:04:25
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-AUG-2006 00:04:25
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	07-AUG-2006 00:04:25
ECMWF_FILE	AUX_ECF_AXNECM20060806_090230_20060806_210000_20060807_090000	1	07-AUG-2006 00:04:25
ECMWF_FILE	AUX_ECA_AXNECM20060808_080903_20060807_030000_20060807_150000	31	07-AUG-2006 03:57:46
ECMWF_FILE	AUX_ECF_AXNECM20060806_090230_20060806_210000_20060807_090000	33	07-AUG-2006 04:23:22
ECMWF_FILE	AUX_ECF_AXNECM20060807_080942_20060807_030000_20060807_150000	43	07-AUG-2006 05:51:00
ECMWF_FILE	AUX_ECF_AXNECM20060807_083919_20060807_150000_20060808_030000	44	07-AUG-2006 20:11:41
OPTIONAL_ECMWF_FILE	NOT USED	1	07-AUG-2006 00:04:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060806_233648_000057382050_00087_23187_0290.N1	1	07-AUG-2006 00:04:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060807_022649_000057382050_00089_23189_0292.N1	18	07-AUG-2006 02:42:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060807_040746_000057382050_00090_23190_0293.N1	33	07-AUG-2006 04:23:22
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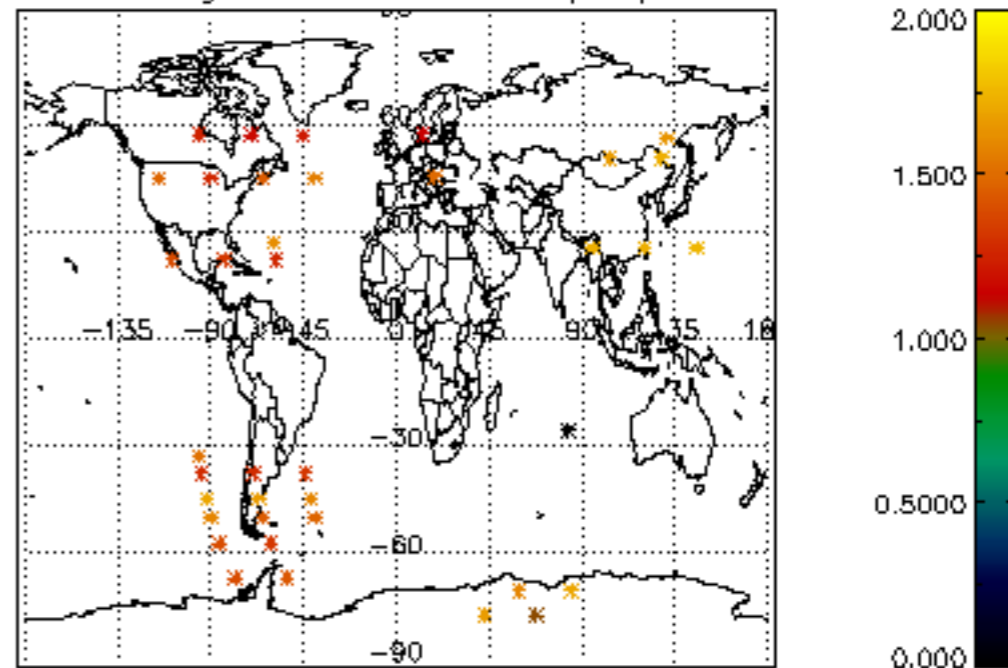




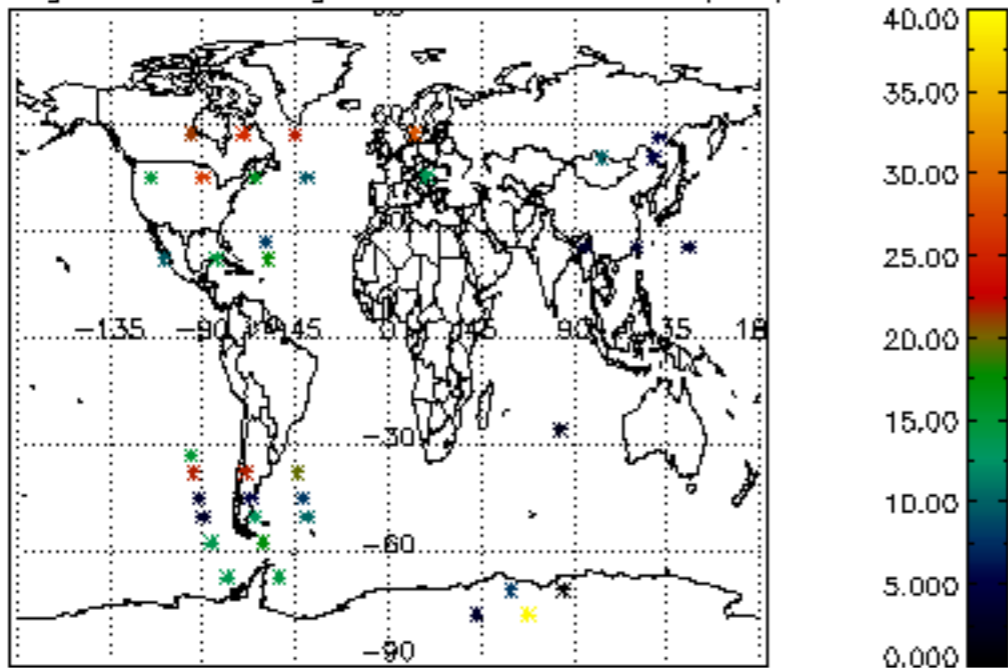
Percentage of cosmic ray hits per profile



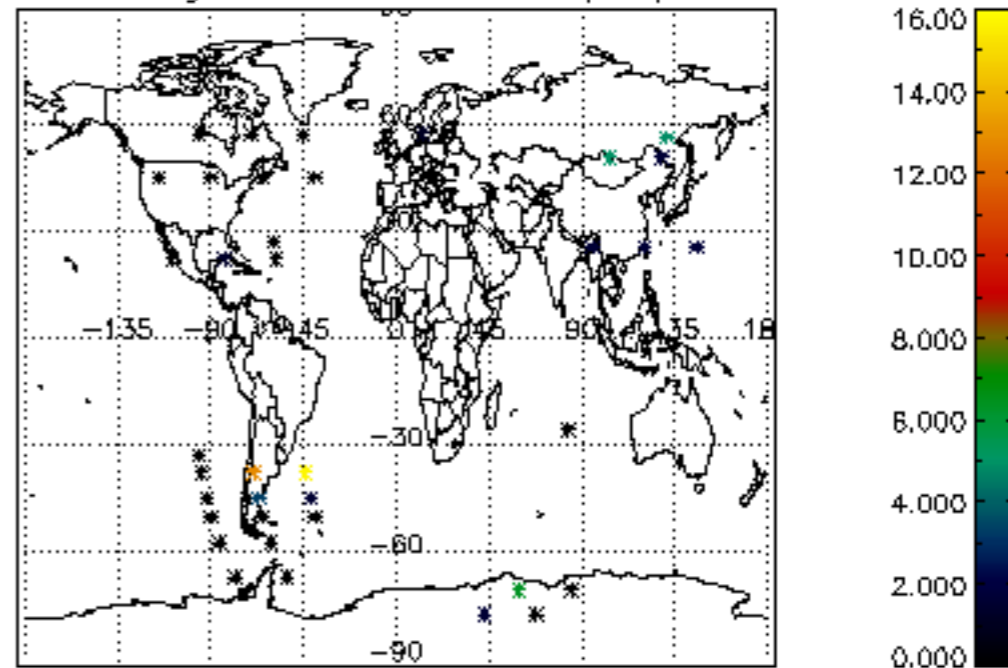
Percentage of datation errors per profile



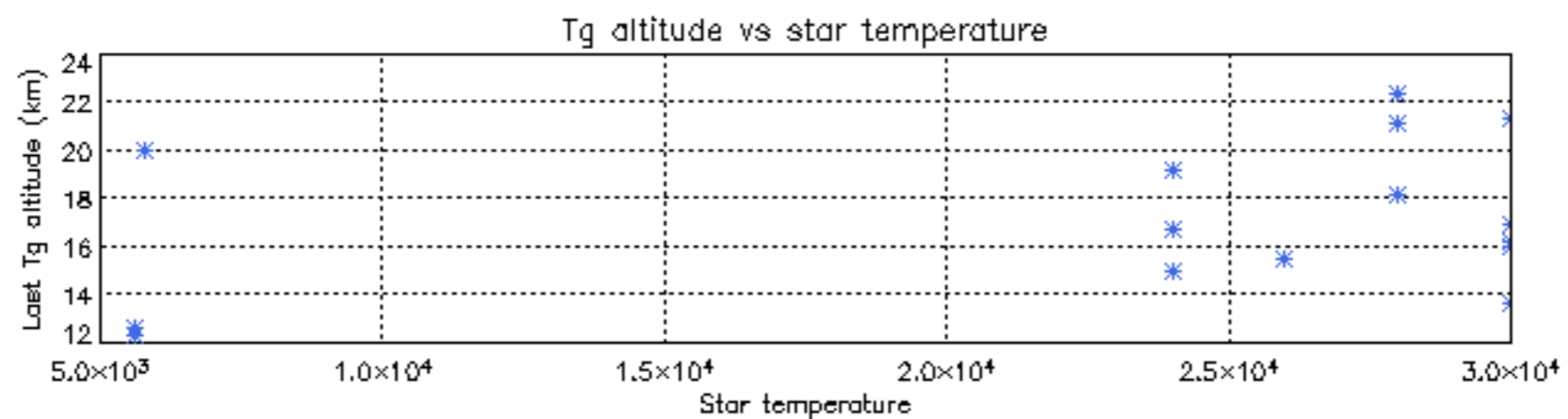
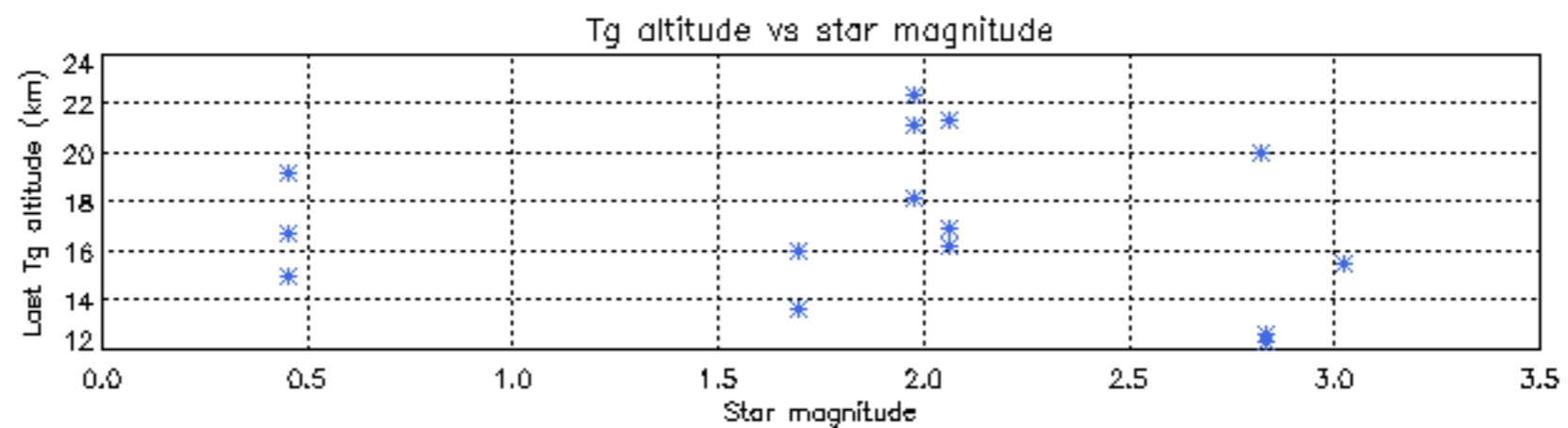
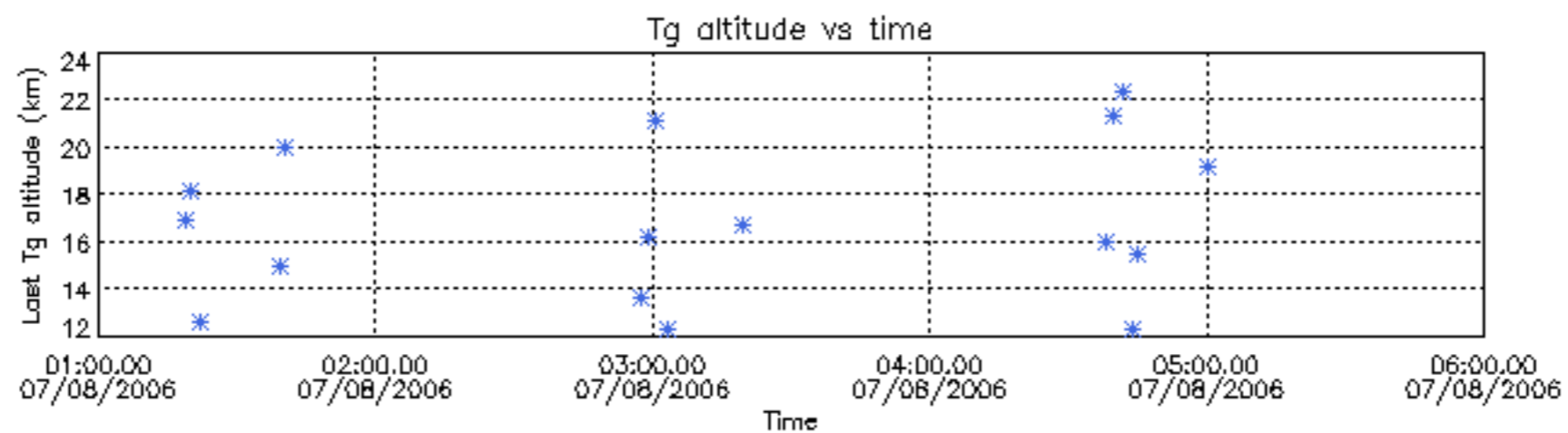
Percentage of star falling outside central band per profile



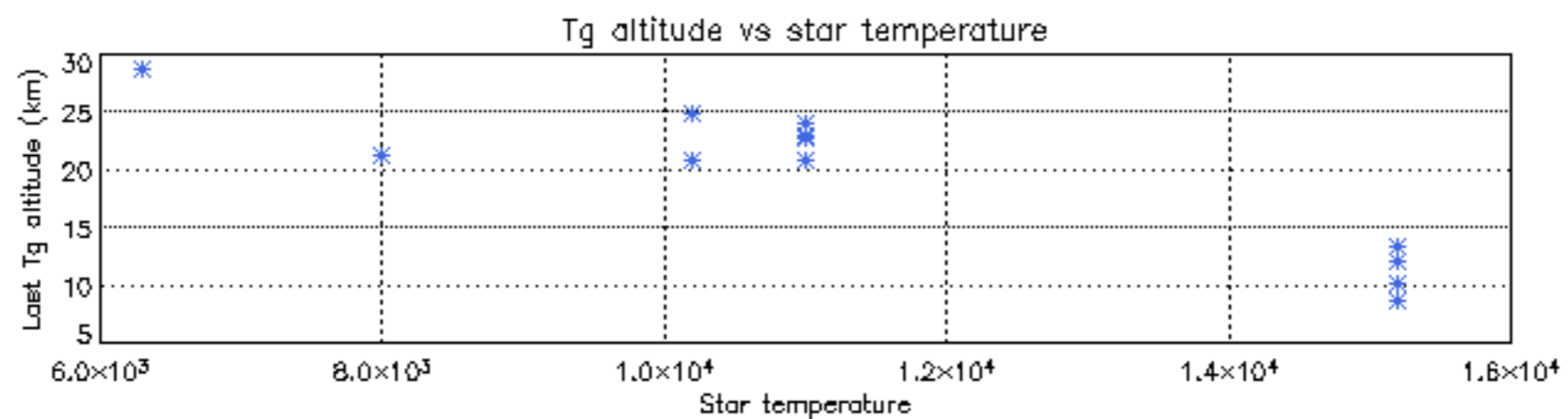
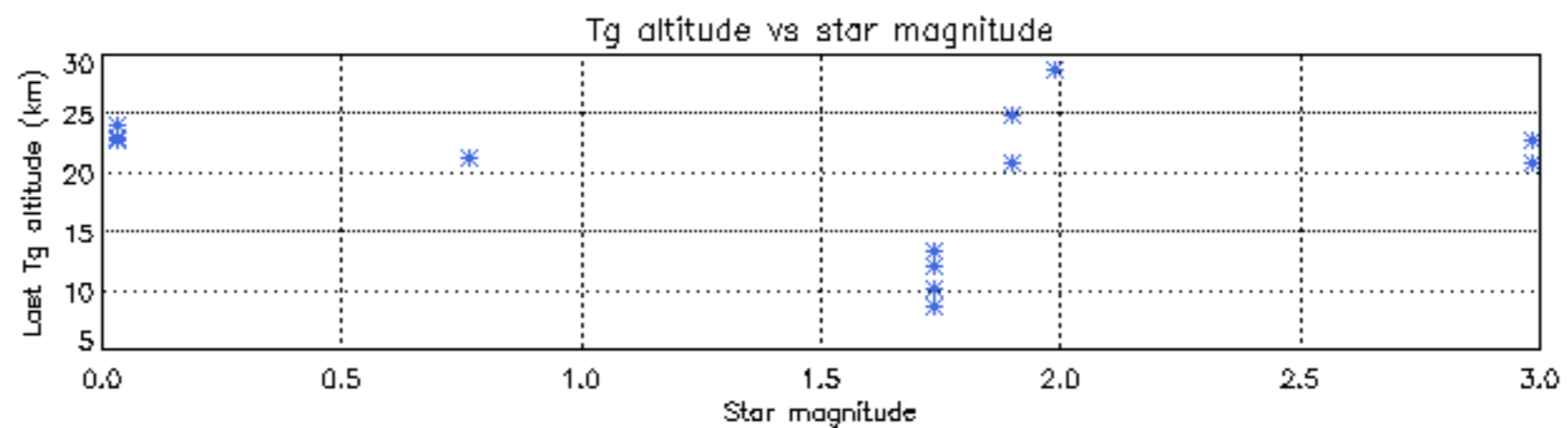
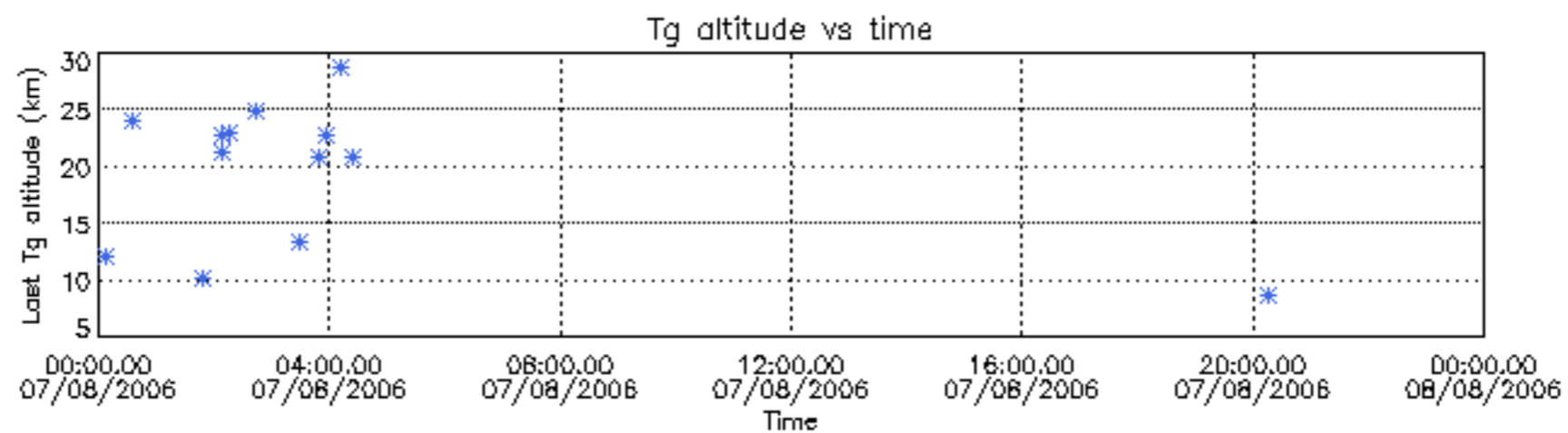
Percentage of saturation errors per profile



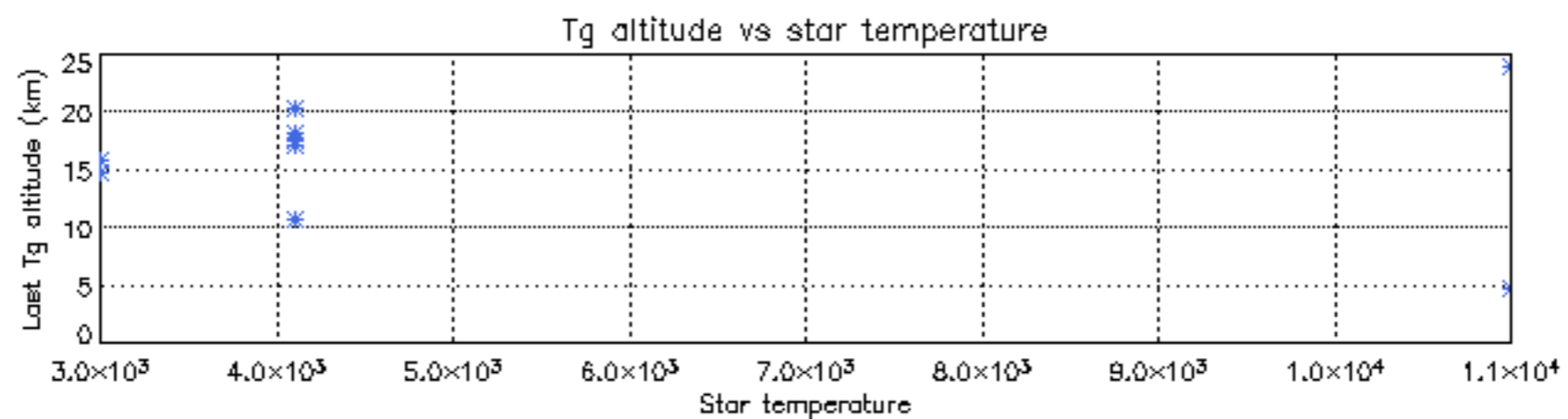
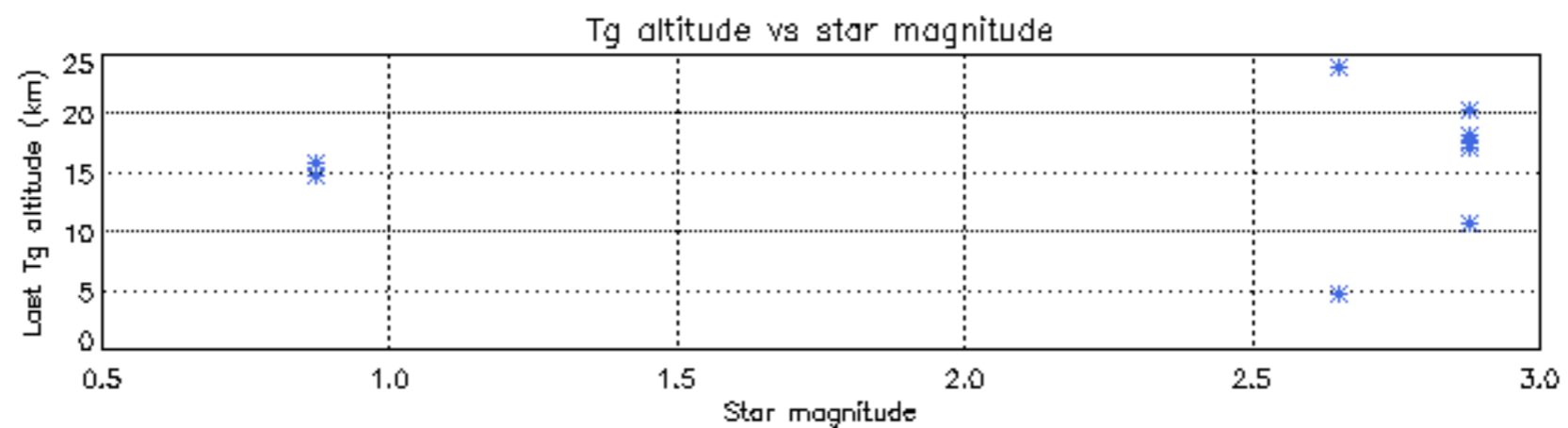
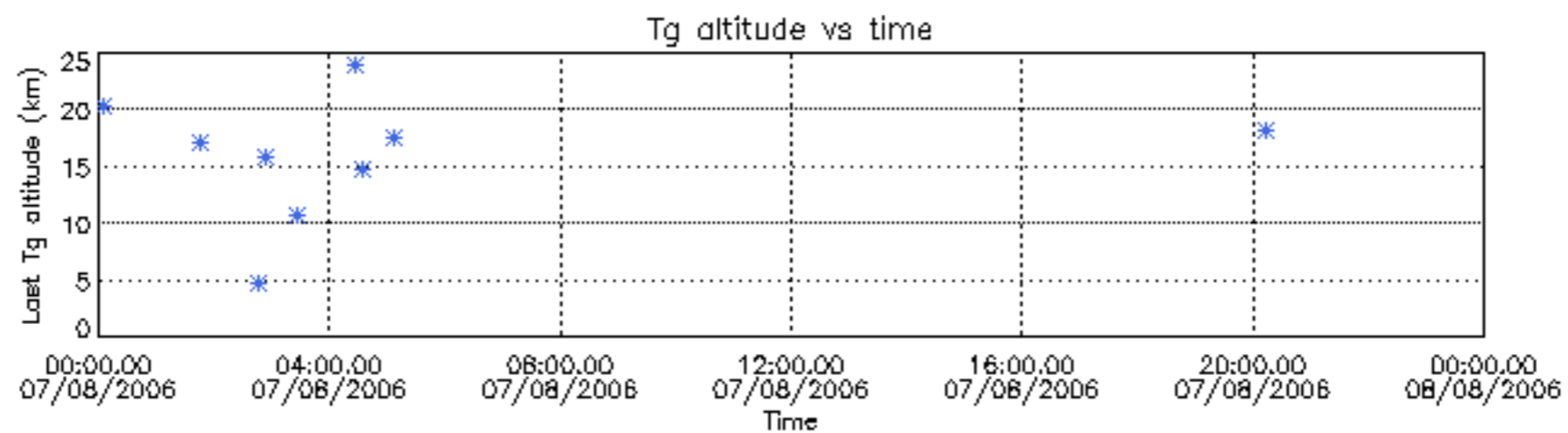
Tangent altitude at which the star is lost

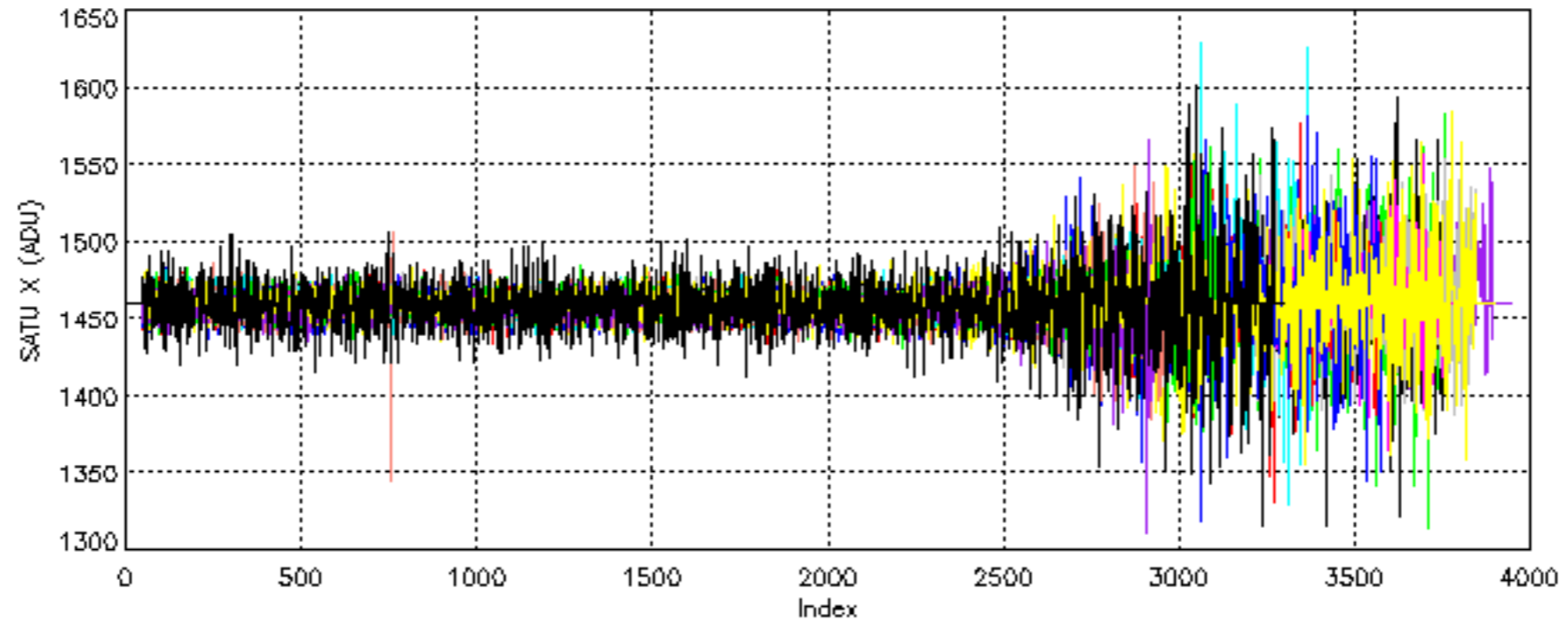


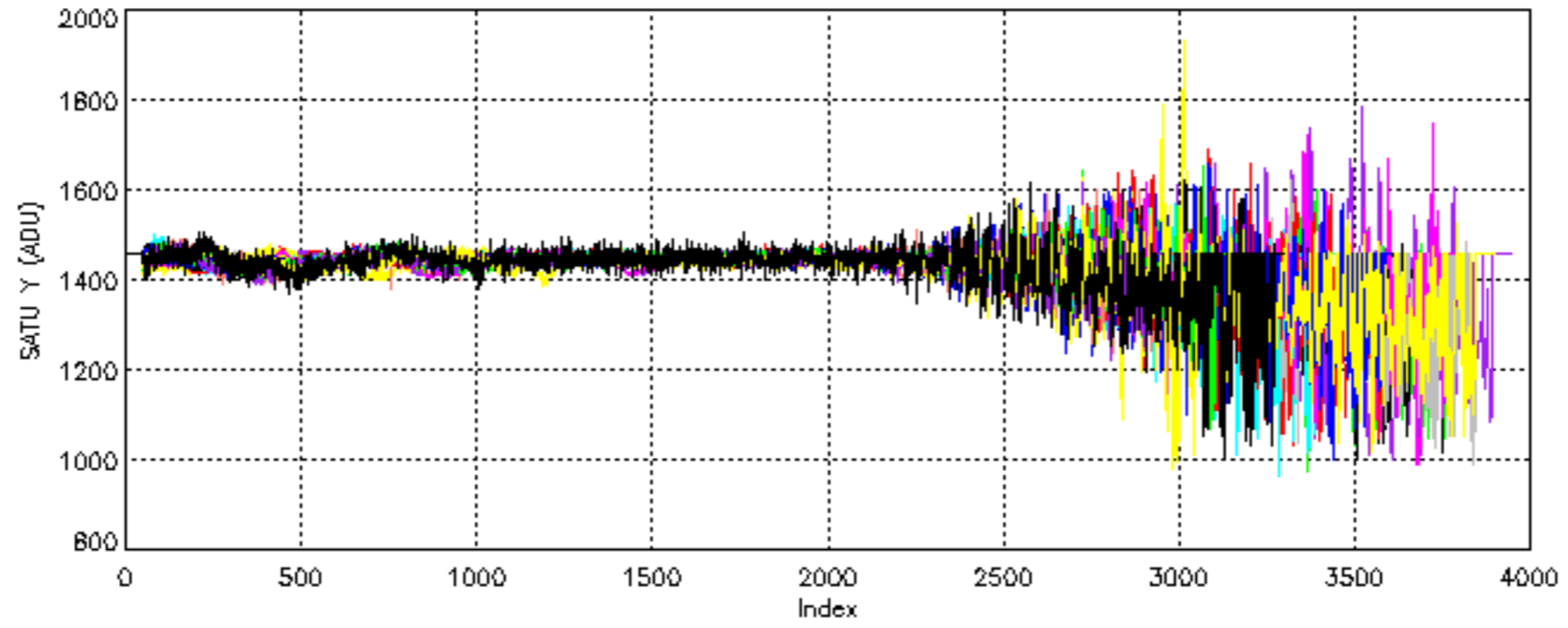
Tangent altitude at which the star is lost

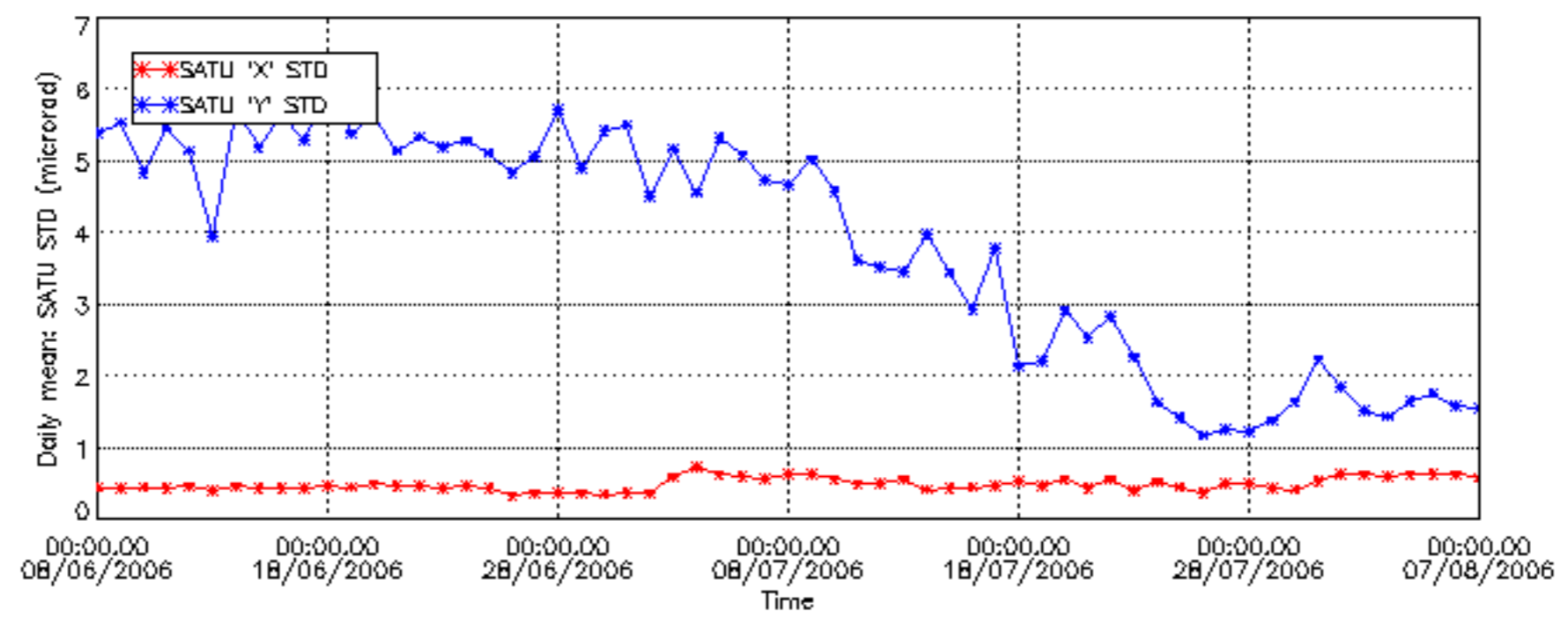


Tangent altitude at which the star is lost










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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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