

GOMOS Daily Report 17-OCT-2009

Level 0 and Level 1 products

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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	20OCT2009 04:41:10
Data source version	GOMOS/5.00L03
Start time of products	17OCT2009 00:02:00
Stop time of products	17OCT2009 23:48:56
Store outputs in DB	Yes
Nb of level 1b prods	76
Nb of prods with errors	0

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

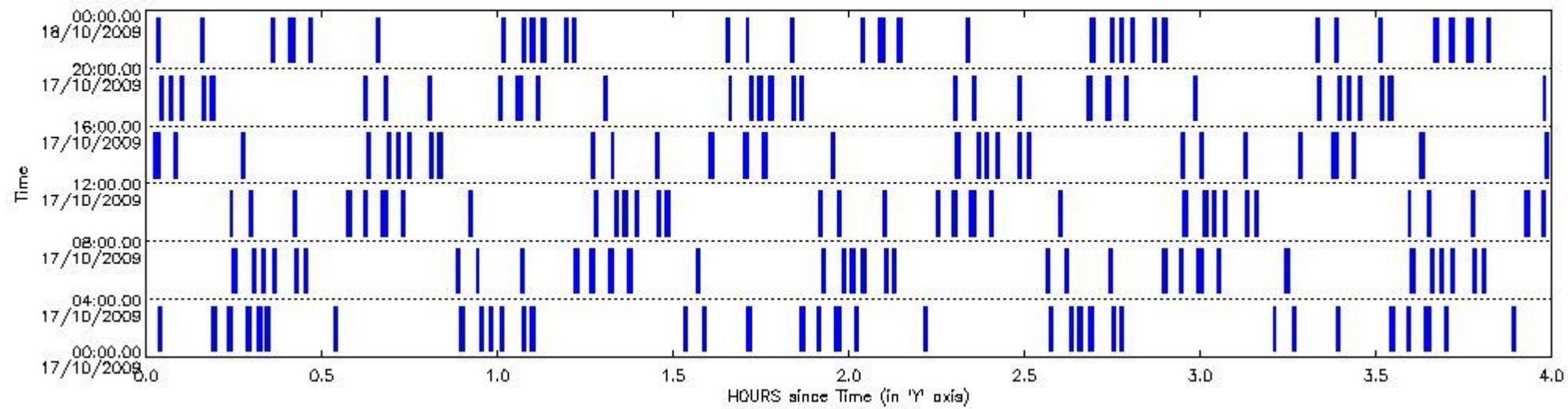
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

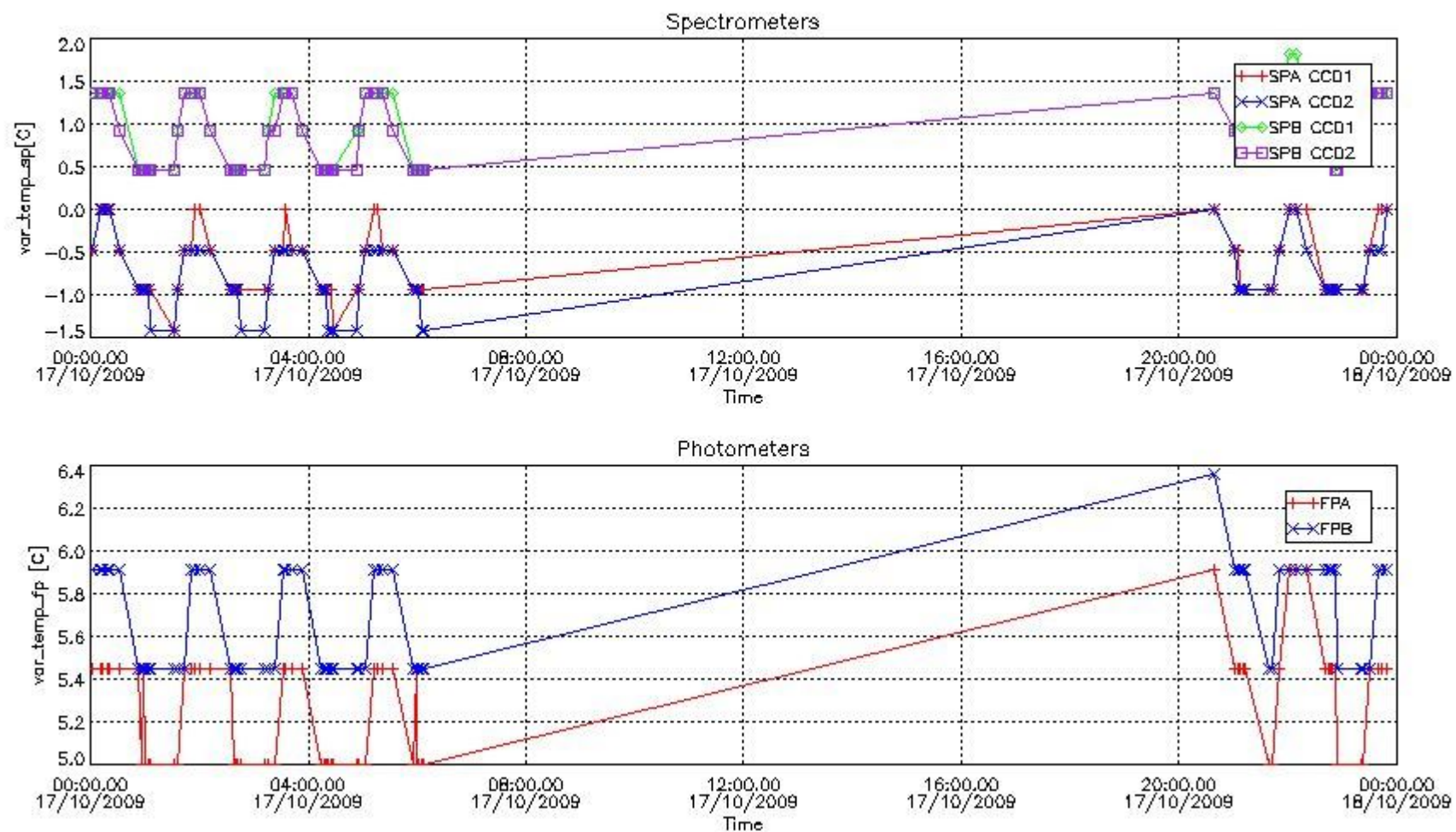
No missing products.

2.4 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_1PNPDE20091017_000200_000000342083_00259_39892_1149.N1	17-OCT-2009 00:02:00	Dark	34.000	48	30Alp Hya	1.9770	4100.0	68	39892	No
2	GOM_TRA_1PNPDE20091017_001105_000000462083_00259_39892_1150.N1	17-OCT-2009 00:11:05	Dark	45.500	132	15Rho Pup	2.8030	6900.0	91	39892	No
3	GOM_TRA_1PNPDE20091017_001356_000000392083_00259_39892_1151.N1	17-OCT-2009 00:13:56	Dark	38.500	70	Zet Pup	2.2460	39000.	77	39892	No
4	GOM_TRA_1PNPDE20091017_001902_000000382083_00260_39893_1152.N1	17-OCT-2009 00:19:02	Dark	37.500	161	Tau Pup	2.9310	4500.0	75	39893	No
5	GOM_TRA_1PNPDE20091017_002022_000000372083_00260_39893_1153.N1	17-OCT-2009 00:20:22	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39893	No
6	GOM_TRA_1PNPDE20091017_003203_000000362083_00260_39893_1154.N1	17-OCT-2009 00:32:03	Straylight	35.500	157	The1Eri	2.9060	9300.0	71	39893	No
7	GOM_TRA_1PNPDE20091017_005331_000000402083_00260_39893_1155.N1	17-OCT-2009 00:53:31	Bright	39.500	105	6Bet Ari	2.6450	8900.0	79	39893	No
8	GOM_TRA_1PNPDE20091017_005659_000000352083_00260_39893_1156.N1	17-OCT-2009 00:56:59	Bright	34.500	53	43Bet And	2.0480	3300.0	69	39893	No
9	GOM_TRA_1PNPDE20091017_005830_000000412083_00260_39893_1157.N1	17-OCT-2009 00:58:30	Bright	40.500	173	4Bet Tri	3.0040	8900.0	81	39893	No
10	GOM_TRA_1PNPDE20091017_010023_000000392083_00260_39893_1158.N1	17-OCT-2009 01:00:23	Bright	38.500	73	57Gam1And	2.2600	13100.	77	39893	No
11	GOM_TRA_1PNPDE20091017_010412_000000332083_00260_39893_1159.N1	17-OCT-2009 01:04:12	Bright	33.000	110	37Del Cas	2.6780	8900.0	66	39893	No
12	GOM_TRA_1PNPDE20091017_010539_000000402083_00260_39893_1160.N1	17-OCT-2009 01:05:39	Bright	40.000	160	23Gam Per	2.9300	4700.0	80	39893	No

72	GOM_TRA_1PNPDE20091017_232258_000000292083_00273_39906_1245.N1	17-OCT-2009 23:22:58	Bright	29.000	22	32Alp Leo	1.3600	15200.	58	39906	No
73	GOM_TRA_1PNPDE20091017_233033_000000342083_00273_39906_1246.N1	17-OCT-2009 23:30:33	Dark	34.000	48	30Alp Hya	1.9770	4100.0	68	39906	No
74	GOM_TRA_1PNPDE20091017_233947_000000472083_00273_39906_1240.N1	17-OCT-2009 23:39:47	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	39906	No
75	GOM_TRA_1PNPDE20091017_234233_000000392083_00273_39906_1241.N1	17-OCT-2009 23:42:33	Dark	38.500	70	Zet Pup	2.2460	39000.	77	39906	No
76	GOM_TRA_1PNPDE20091017_234856_000000382083_00274_39907_1242.N1	17-OCT-2009 23:48:56	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39907	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).

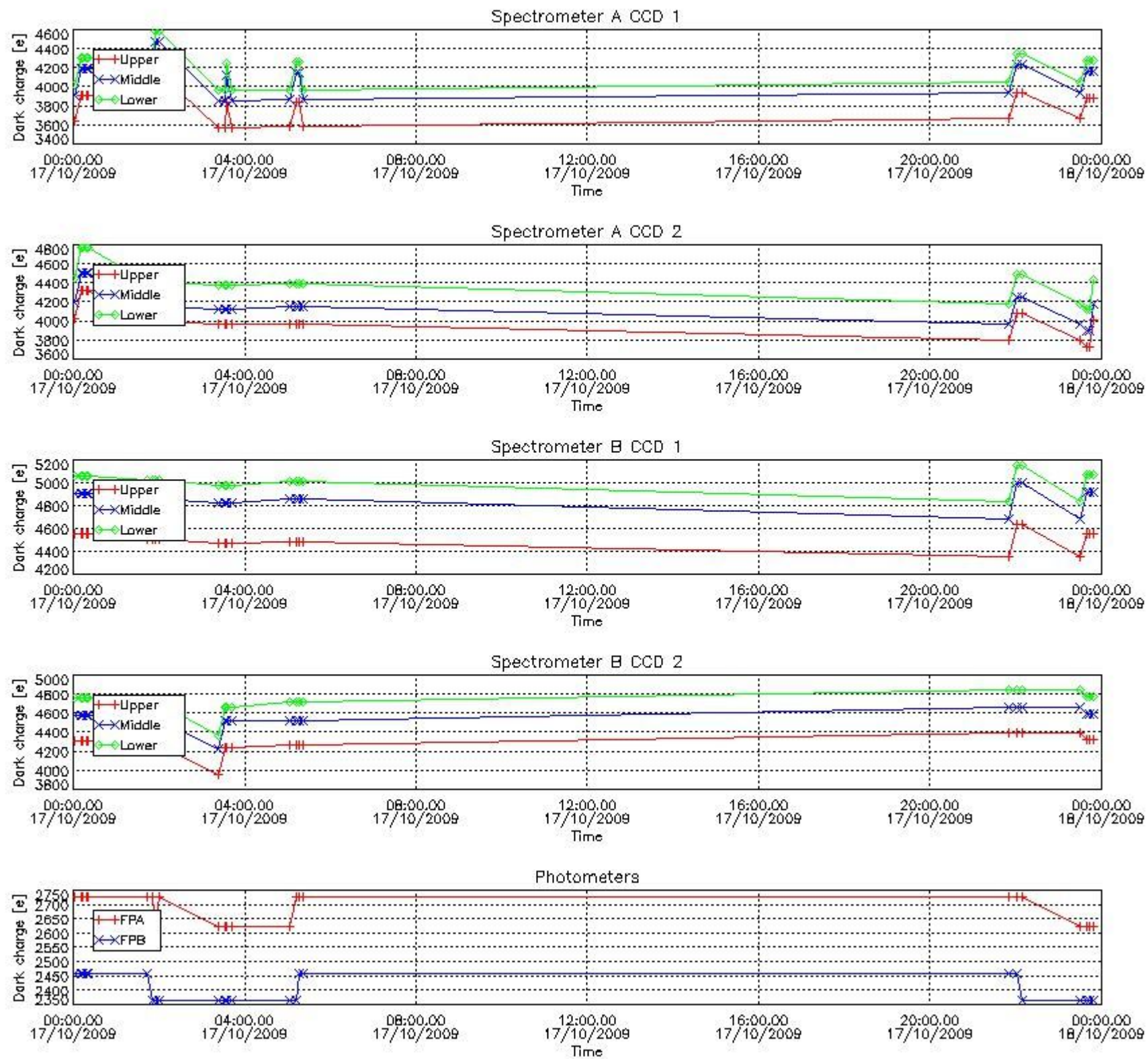
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20091017_203920_000000352083_00272_39905_1228.N1	DC map used
GOM_TRA_1PNPDE20091017_210036_000000392083_00272_39905_1229.N1	DC map used
GOM_TRA_1PNPDE20091017_210406_000000352083_00272_39905_1230.N1	DC map used
GOM_TRA_1PNPDE20091017_210534_000000402083_00272_39905_1231.N1	DC map used
GOM_TRA_1PNPDE20091017_210728_000000392083_00272_39905_1232.N1	DC map used

GOM_TRA_1PNPDE20091017_211120_000000332083_00272_39905_1233.N1	DC map used
GOM_TRA_1PNPDE20091017_211241_000000402083_00272_39905_1234.N1	DC map used
GOM_TRA_1PNPDE20091017_213903_000000302083_00272_39905_1235.N1	DC map used
GOM_TRA_1PNPDE20091017_214222_000000292083_00272_39905_1236.N1	DC map used

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

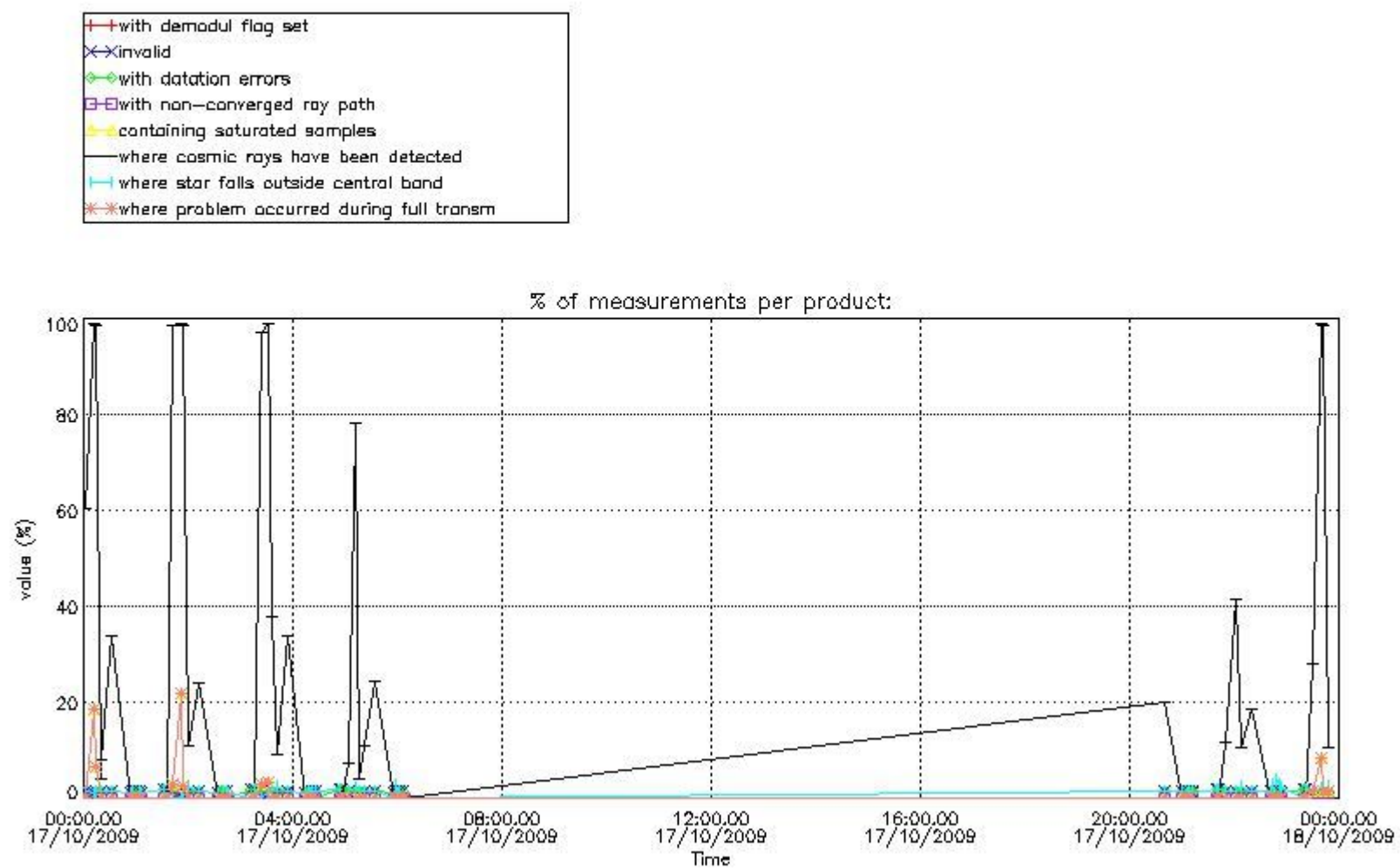
In this section it is presented the modulation information extracted from the pcd (product confidence data)

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.

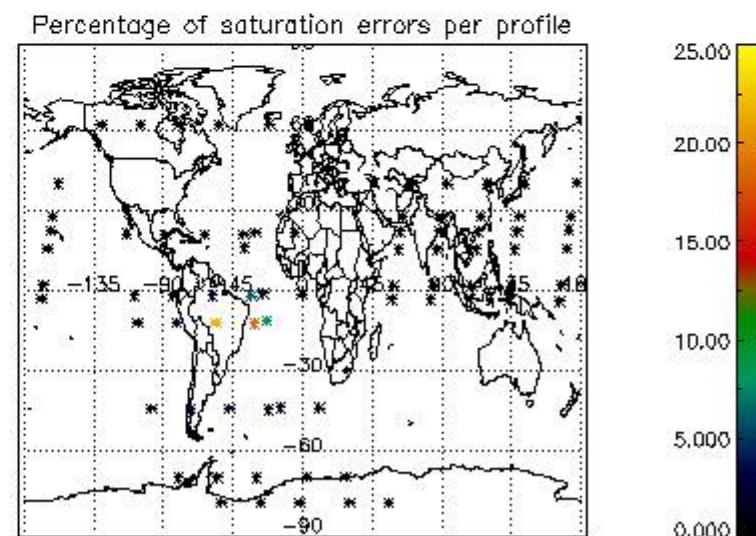
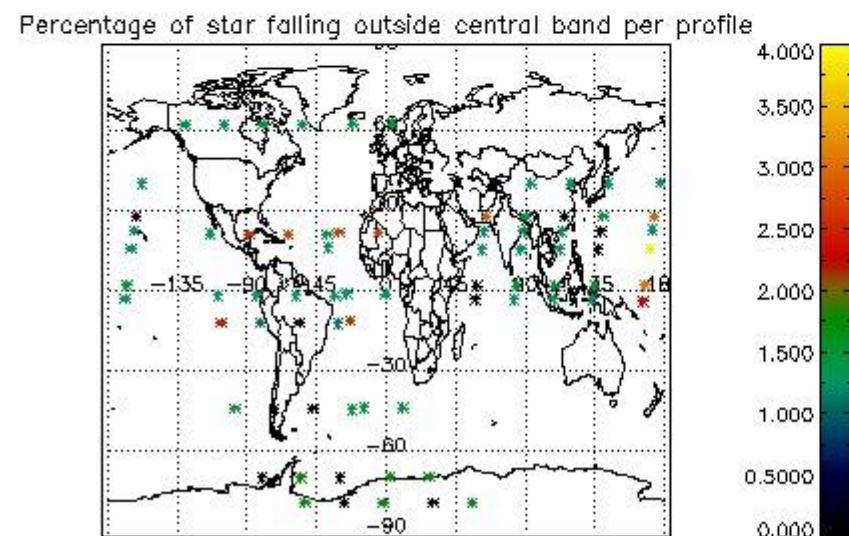
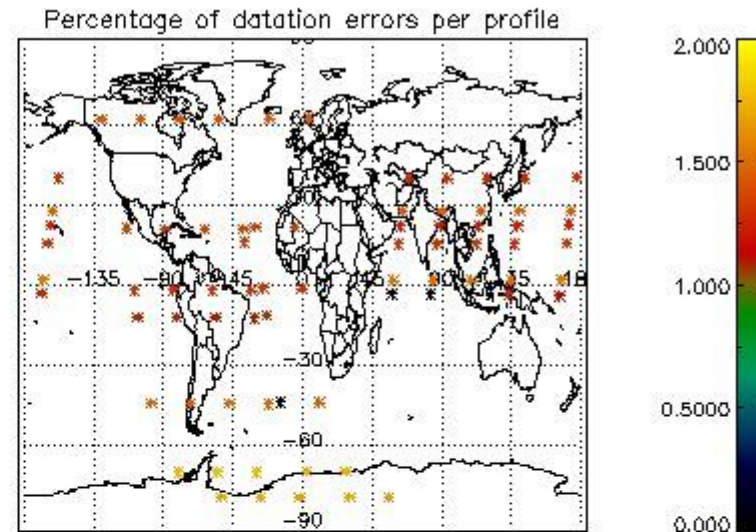
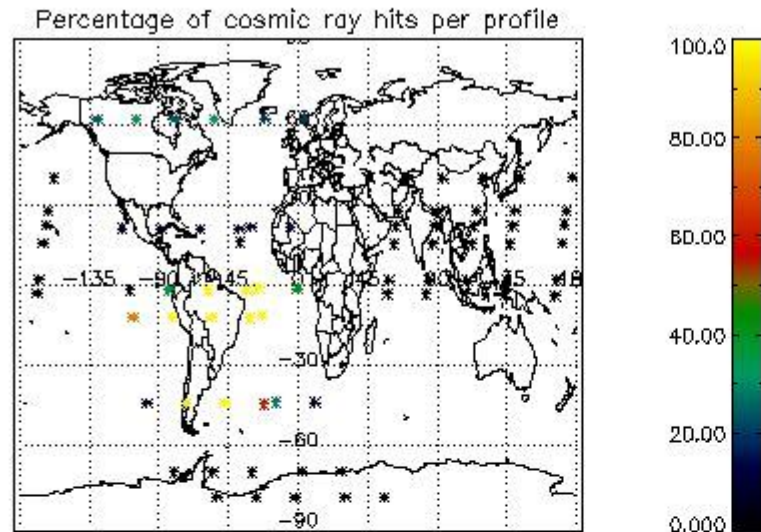
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.2632 %
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)



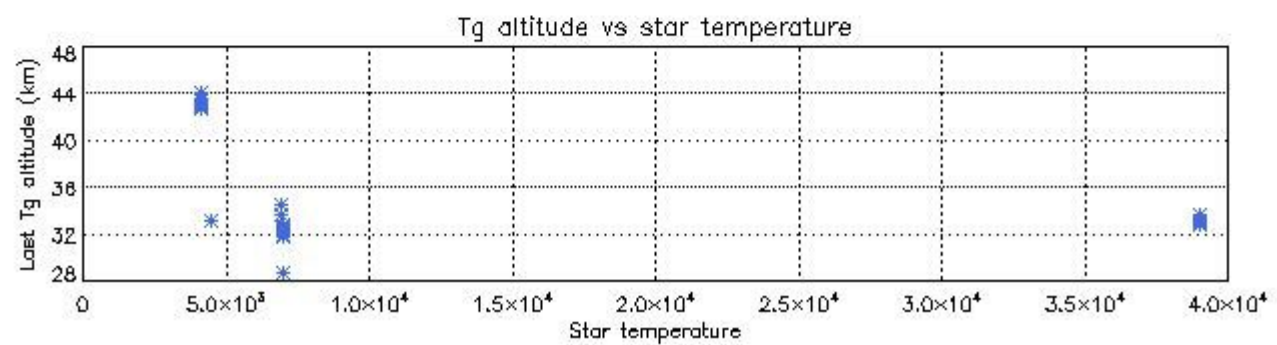
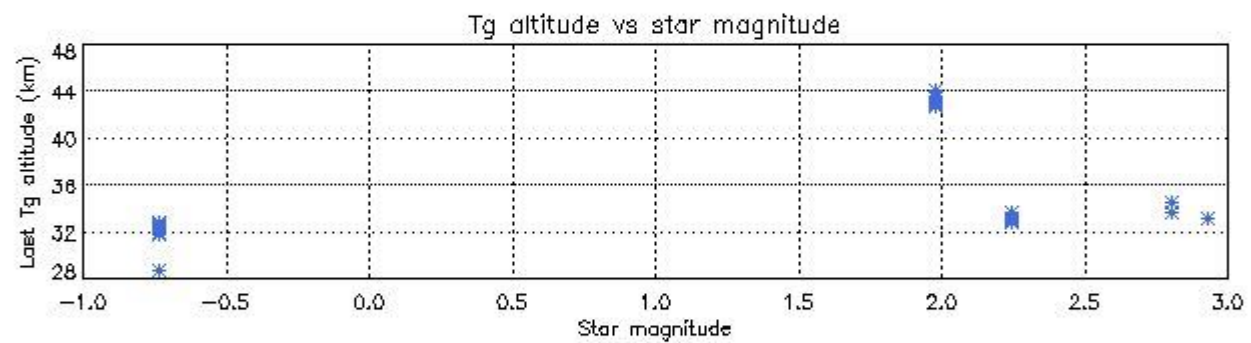
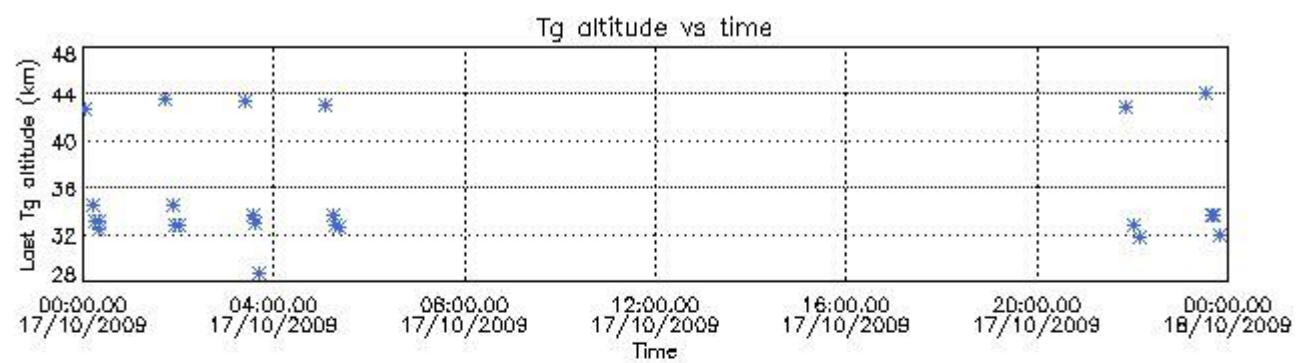
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	35.443	35.076	NaN
St. deviation:	4.7253	4.5366	NaN
Maximum:	44.025	50.322	NaN
Minimum:	28.609	32.065	NaN
Number of data:	24.000	39.000	NaN

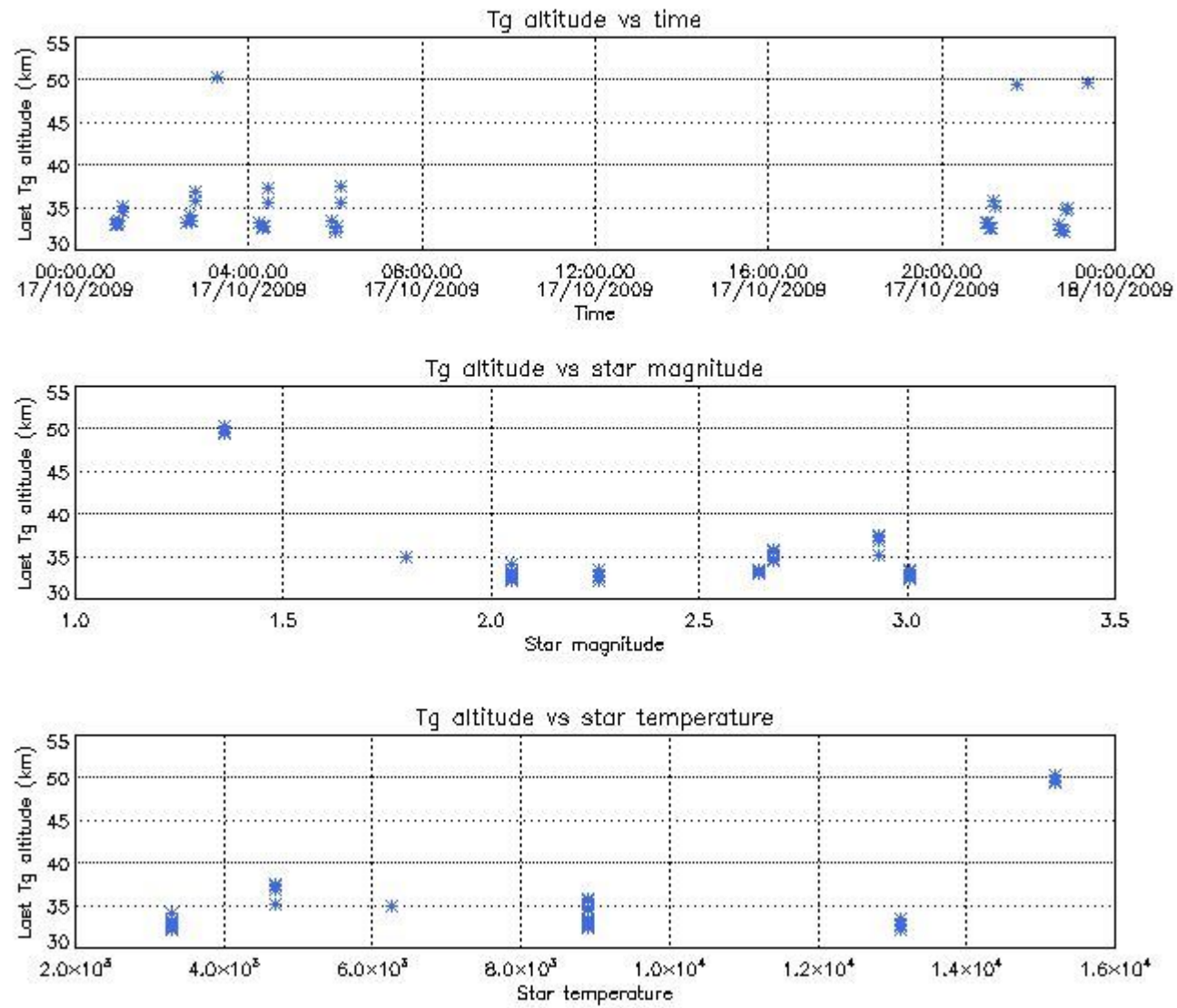
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

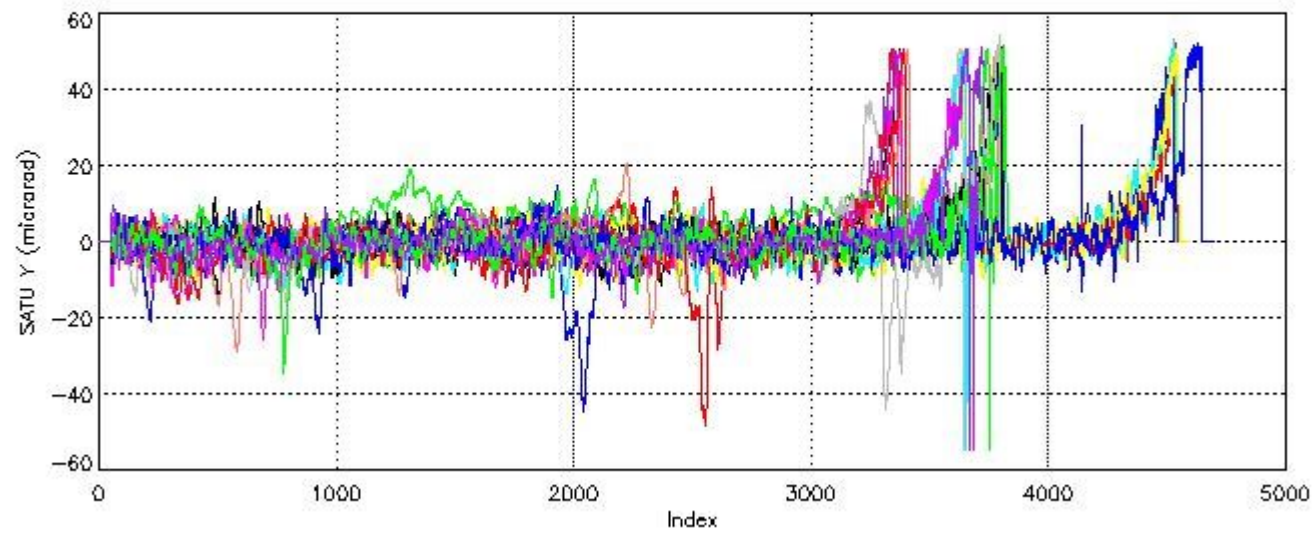
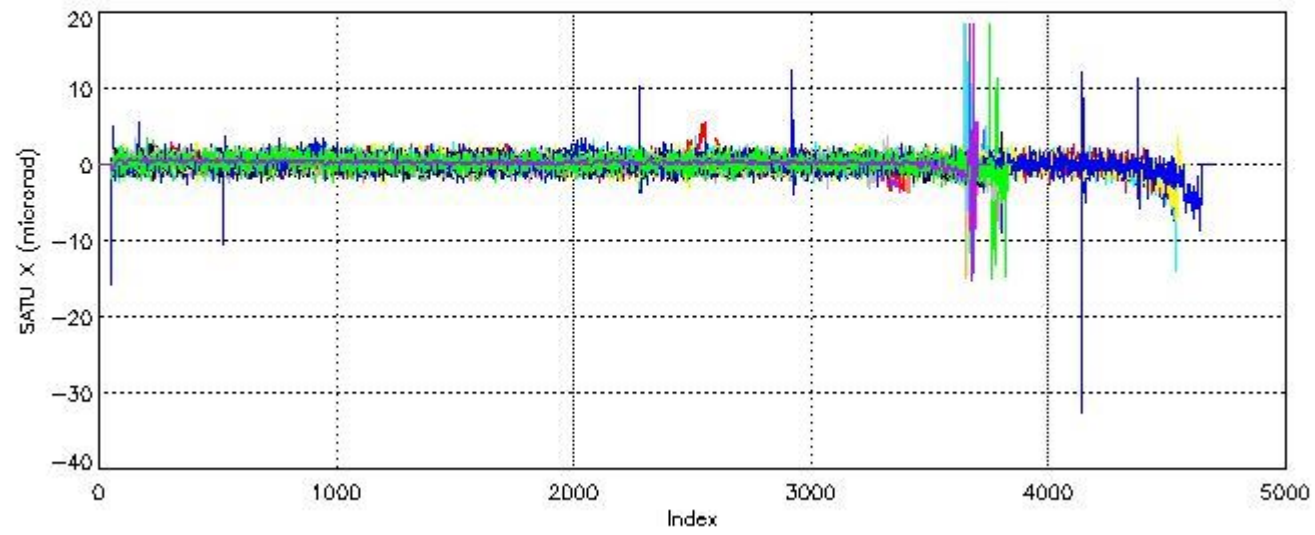


7. Star Acquisition and Tracking Unit (SATU)

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 microradians) 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:	0.26323	-0.95587	0.32051	-1.3319
St. deviation:	0.52218	3.6011	0.89284	4.4545
Maximum:	5.4000	11.400	6.2000	15.400
Minimum:	-15.800	-35.000	-5.6000	-41.400

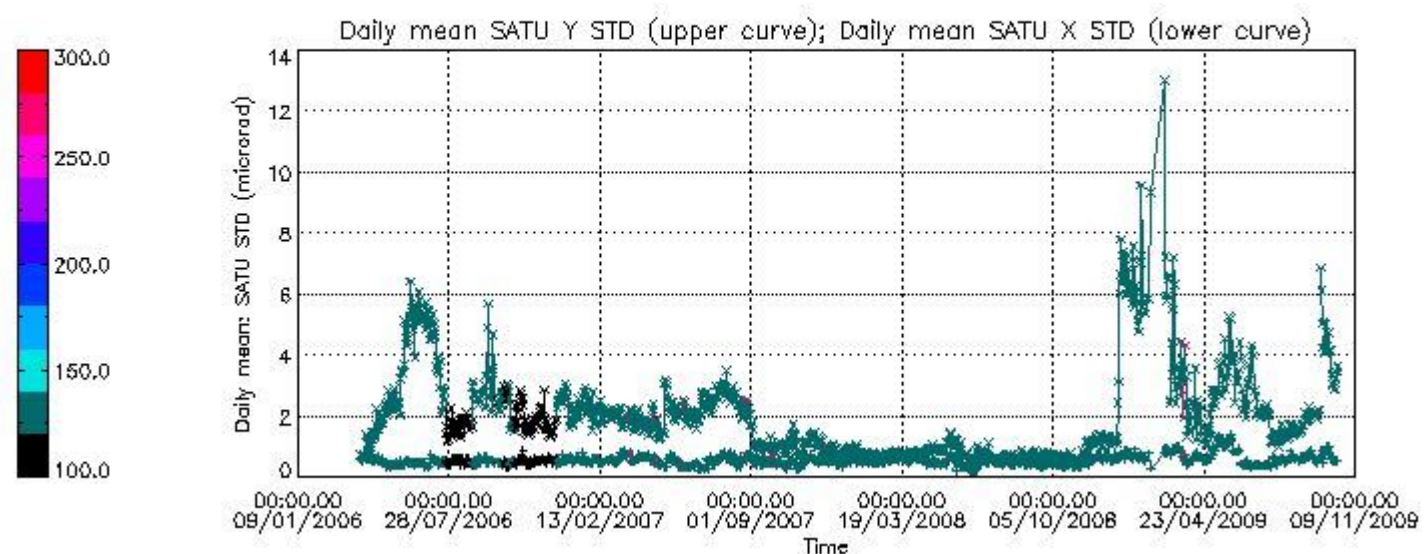
Number of data:	27050.	27050.	41200.	41200.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

The colorbar represents the start tangent altitude (km) of the occultations.

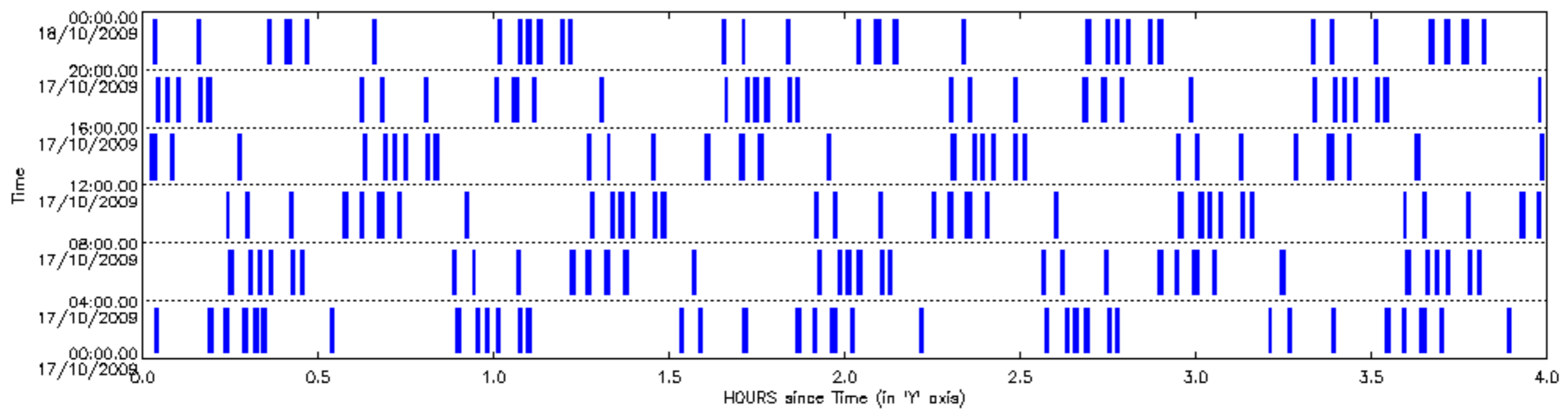
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

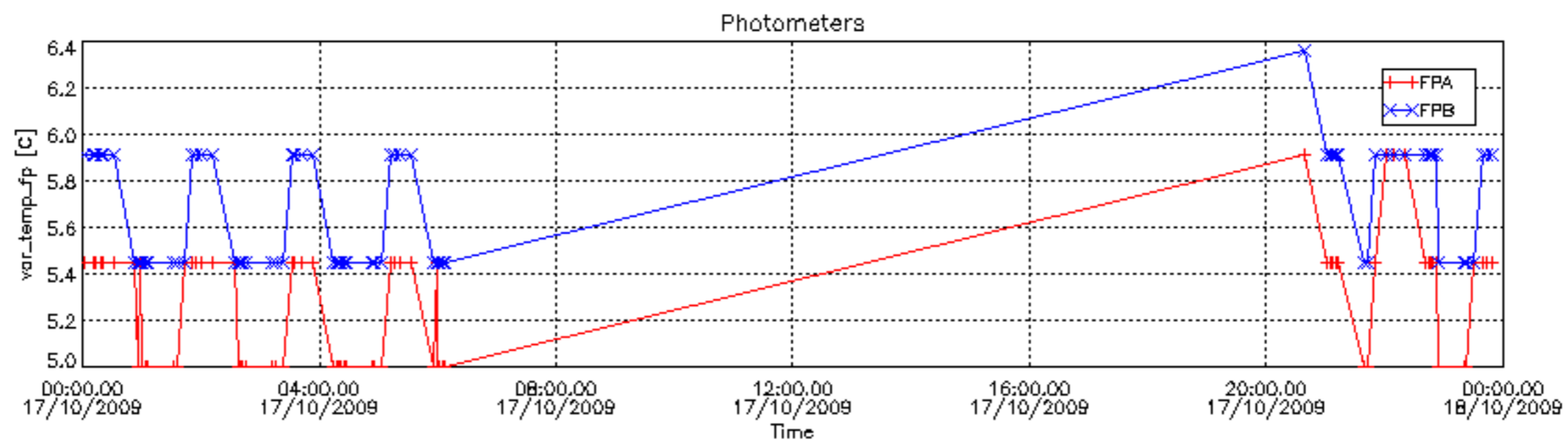
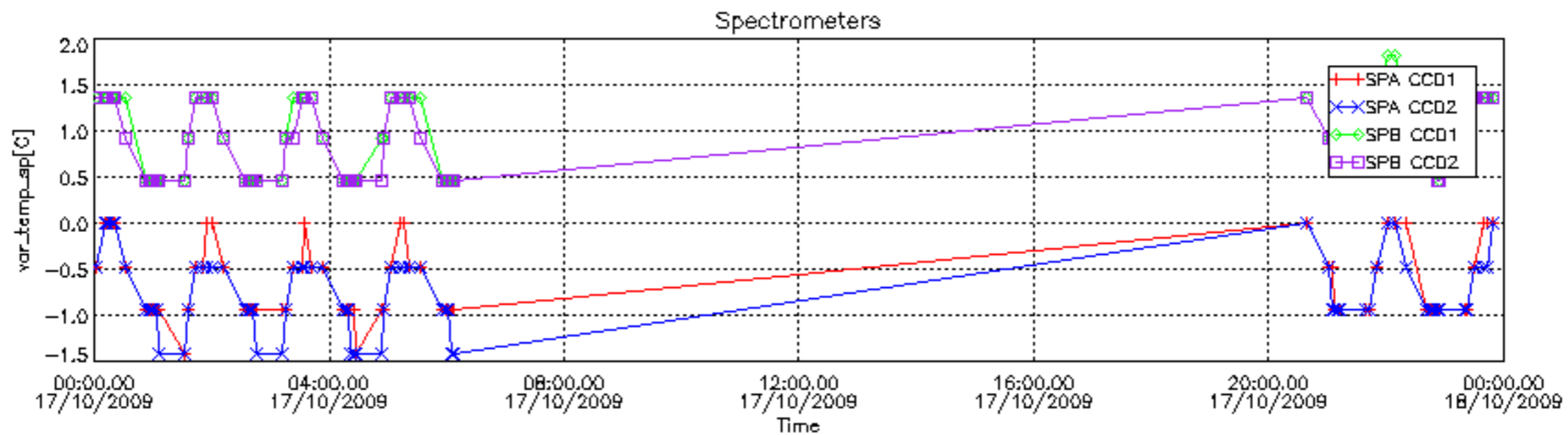


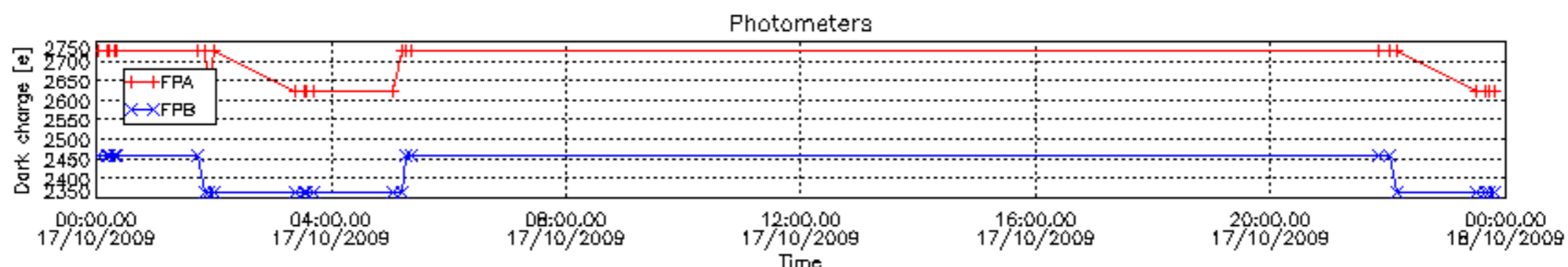
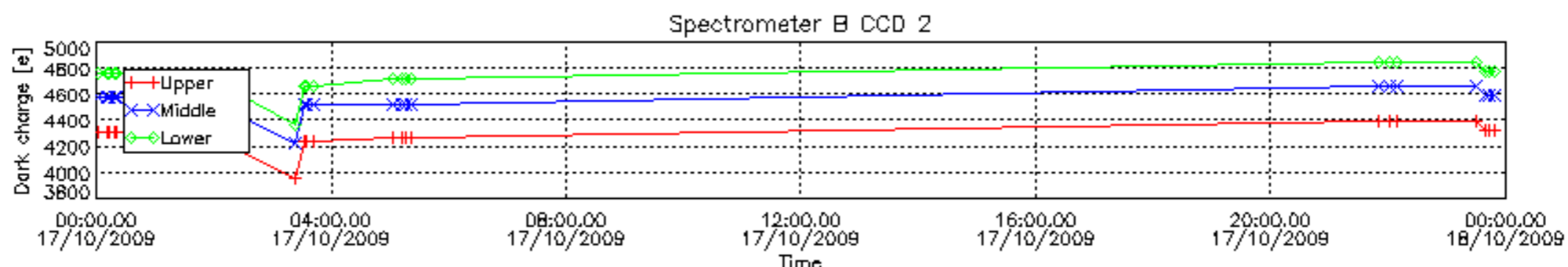
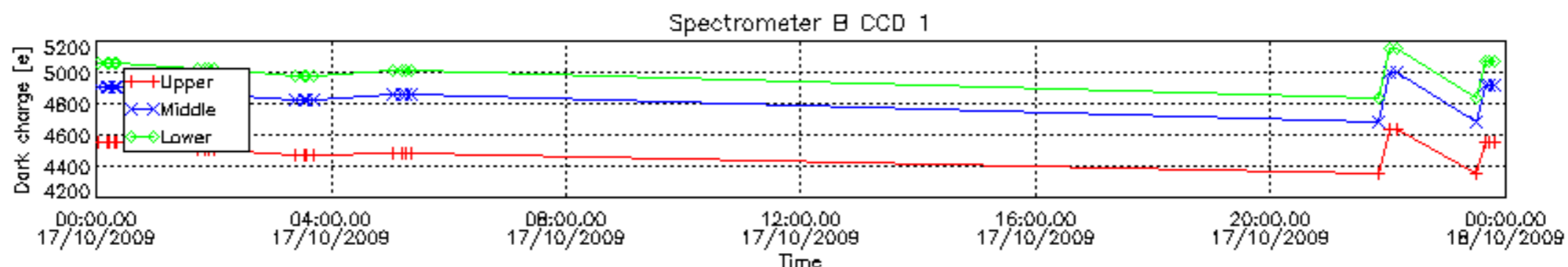
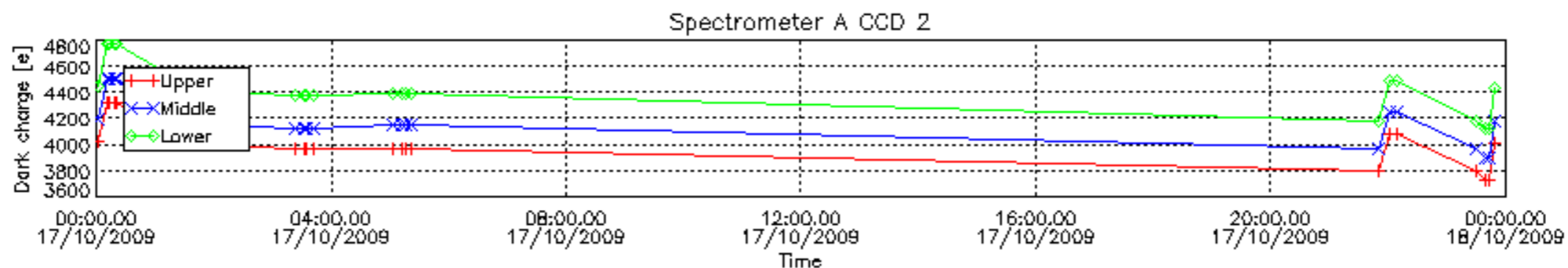
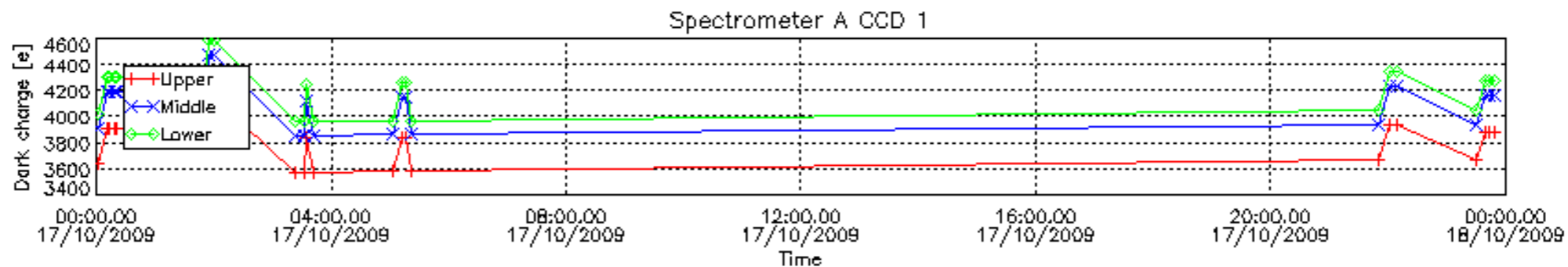
8. Auxiliary Data Files used for the production reported in section 2.4

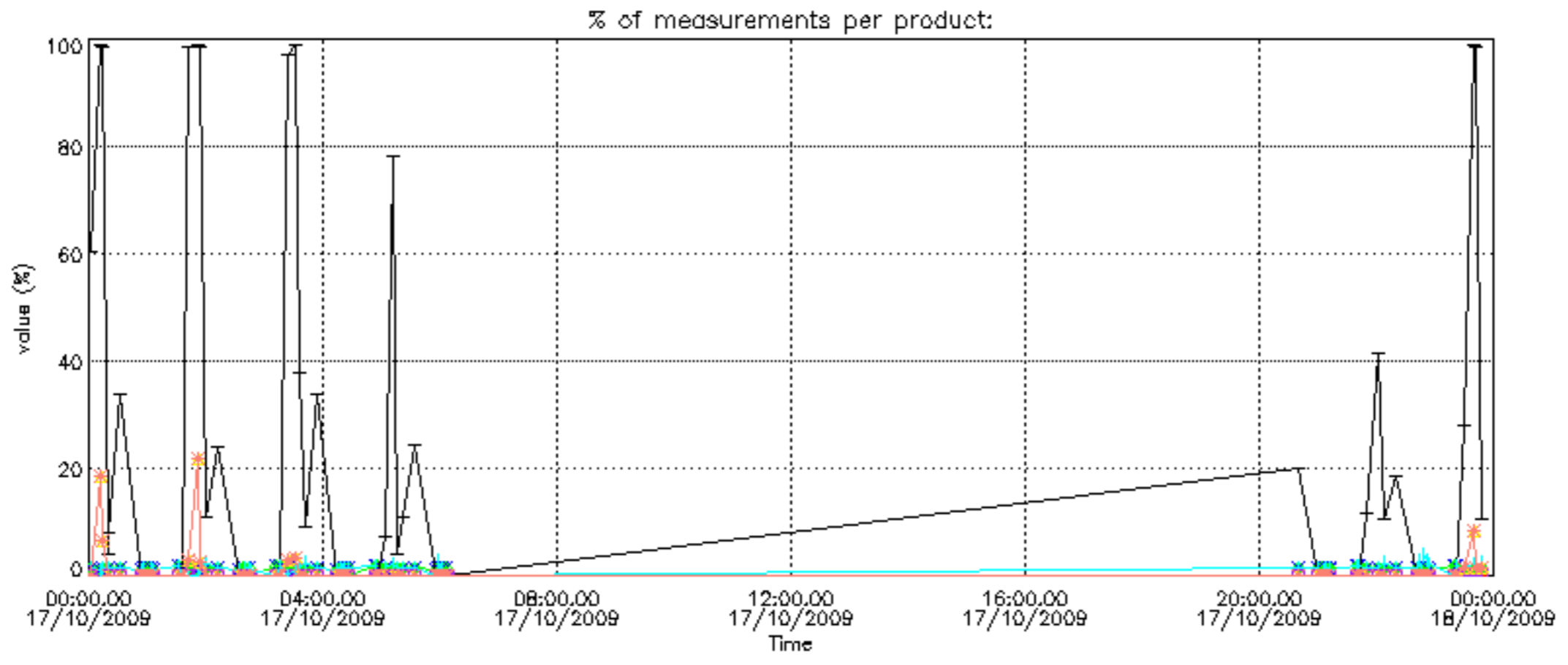
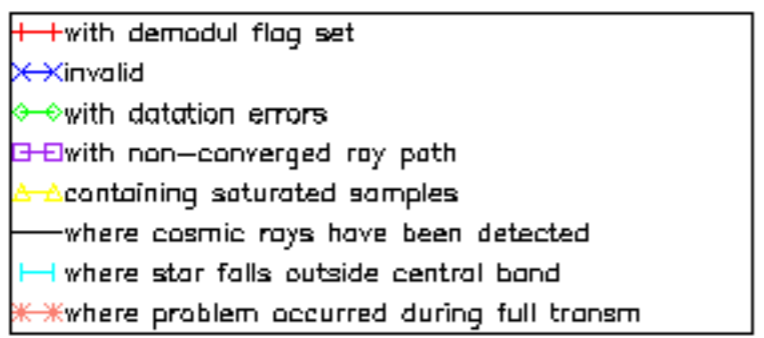
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	17-OCT-2009 00:02:00
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091013_072825_20091011_000000_20100101_000000	1	17-OCT-2009 00:02:00
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	17-OCT-2009 00:02:00
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-OCT-2009 00:02:00
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	17-OCT-2009 00:02:00
ECMWF_FILE	AUX_ECF_AXNECM20091016_154110_20091016_210000_20091017_090000	1	17-OCT-2009 00:02:00
ECMWF_FILE	AUX_ECF_AXNECM20091016_182111_20091017_030000_20091017_150000	26	17-OCT-2009 03:12:25
ECMWF_FILE	AUX_ECA_AXNECM20091017_062114_20091016_210000_20091017_090000	39	17-OCT-2009 04:53:01
ECMWF_FILE	AUX_ECF_AXNECM20091017_064114_20091017_150000_20091018_030000	52	17-OCT-2009 20:39:20
ECMWF_FILE	AUX_ECF_AXNECM20091017_064114_20091017_210000_20091018_090000	61	17-OCT-2009 21:49:57
OPTIONAL_ECMWF_FILE	MISSING	1	17-OCT-2009 00:02:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091017_000122_000054192083_00259_39892_8981.N1	1	17-OCT-2009 00:02:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091017_013700_000044632083_00260_39893_8982.N1	15	17-OCT-2009 01:42:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091017_025642_000054192083_00261_39894_8983.N1	26	17-OCT-2009 03:12:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091017_043220_000057382083_00262_39895_8984.N1	39	17-OCT-2009 04:53:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091017_203401_000041442083_00272_39905_8985.N1	52	17-OCT-2009 20:39:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091017_214824_000057382083_00272_39905_8986.N1	61	17-OCT-2009 21:49:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091017_232921_000057382083_00273_39906_8987.N1	74	17-OCT-2009 23:39:47

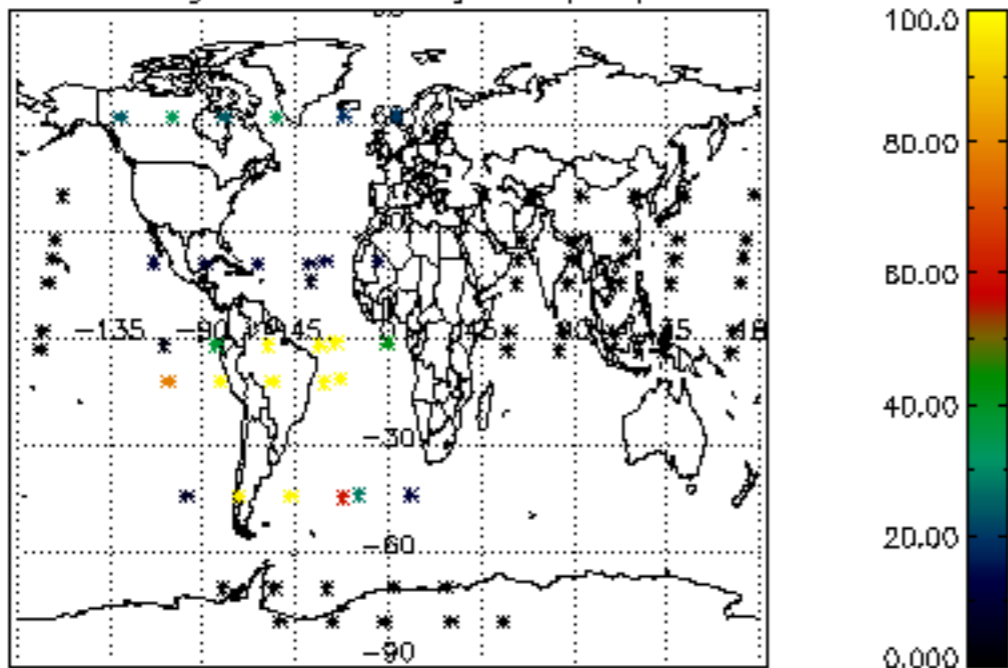




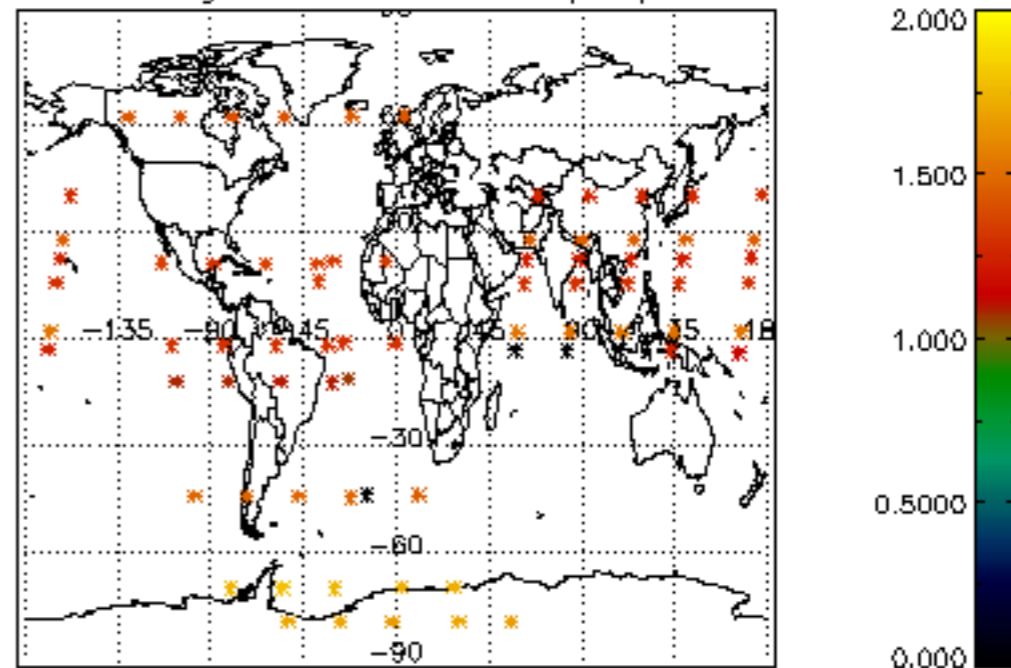




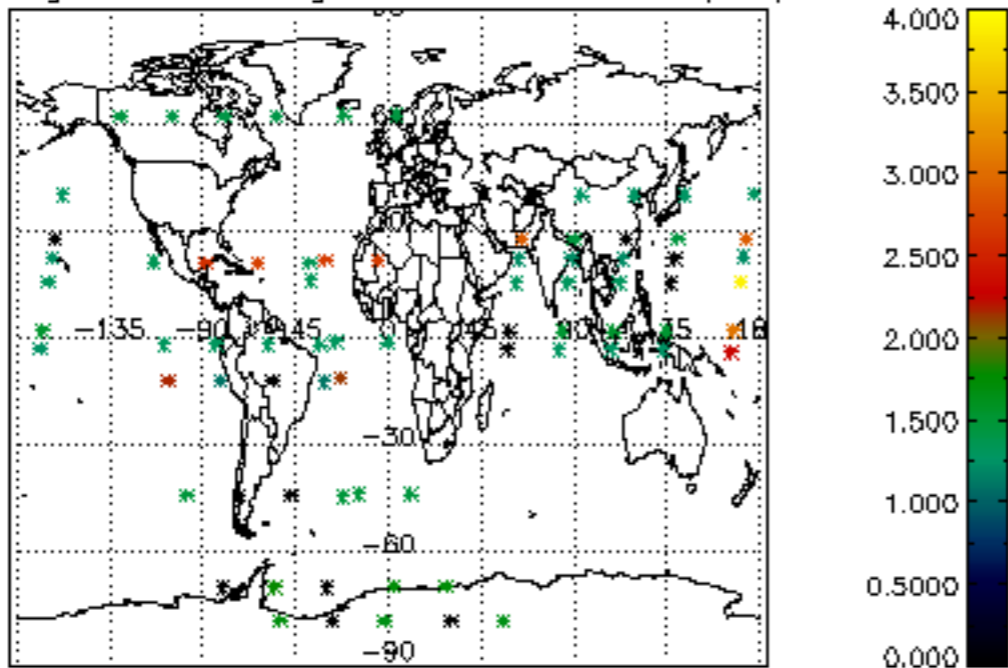
Percentage of cosmic ray hits per profile



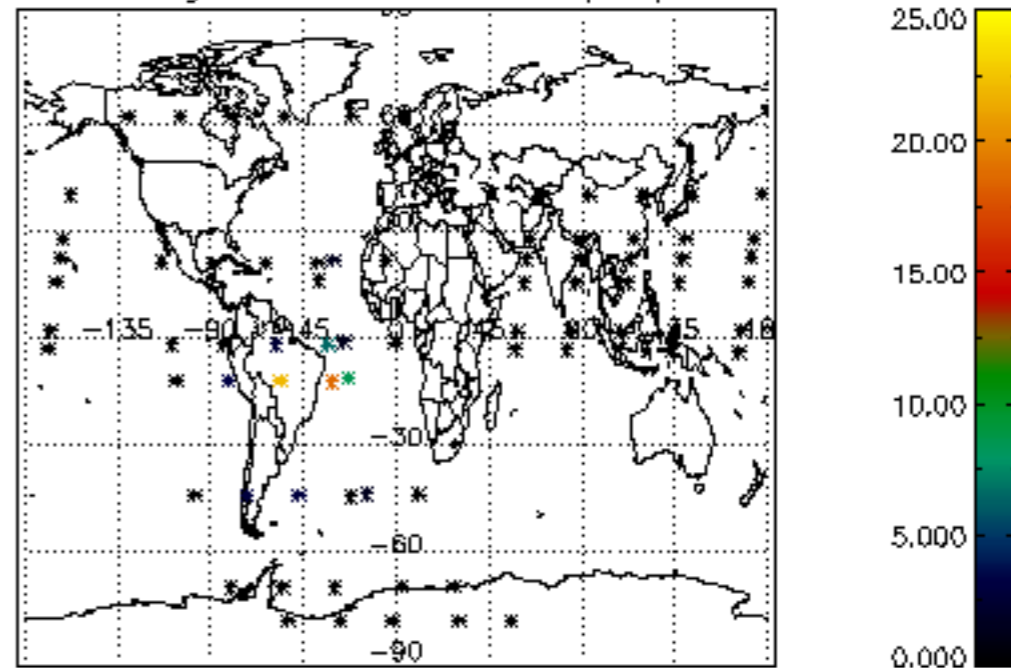
Percentage of datation errors per profile



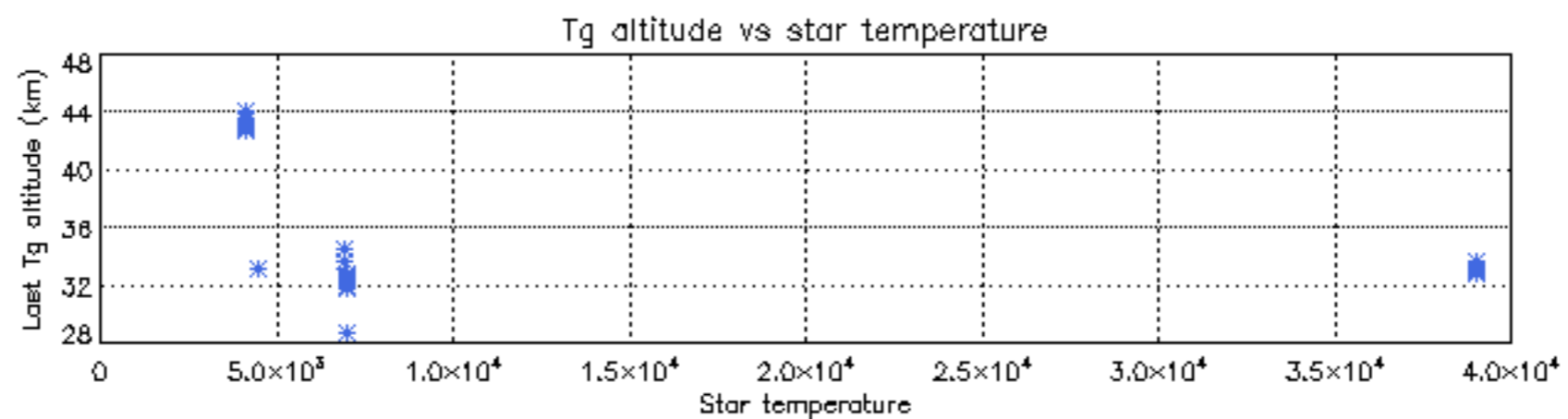
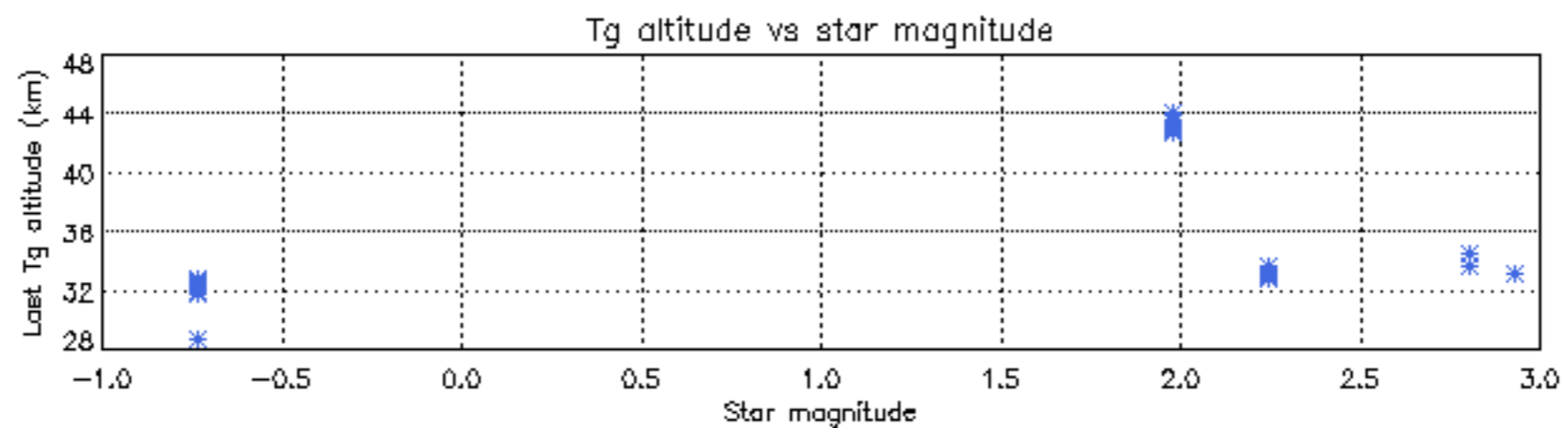
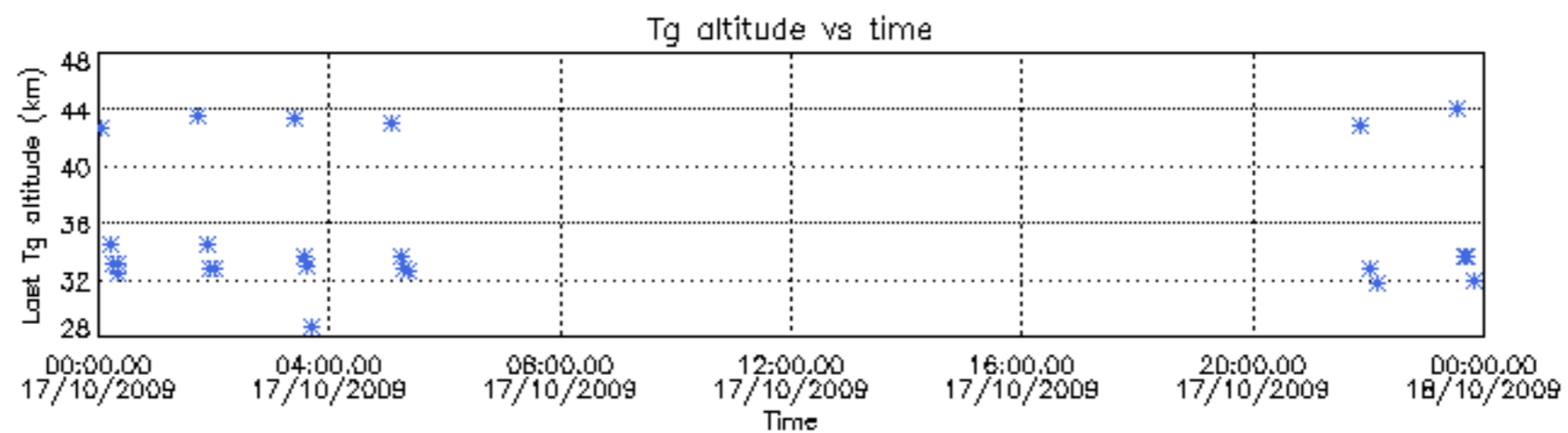
Percentage of star falling outside central band per profile



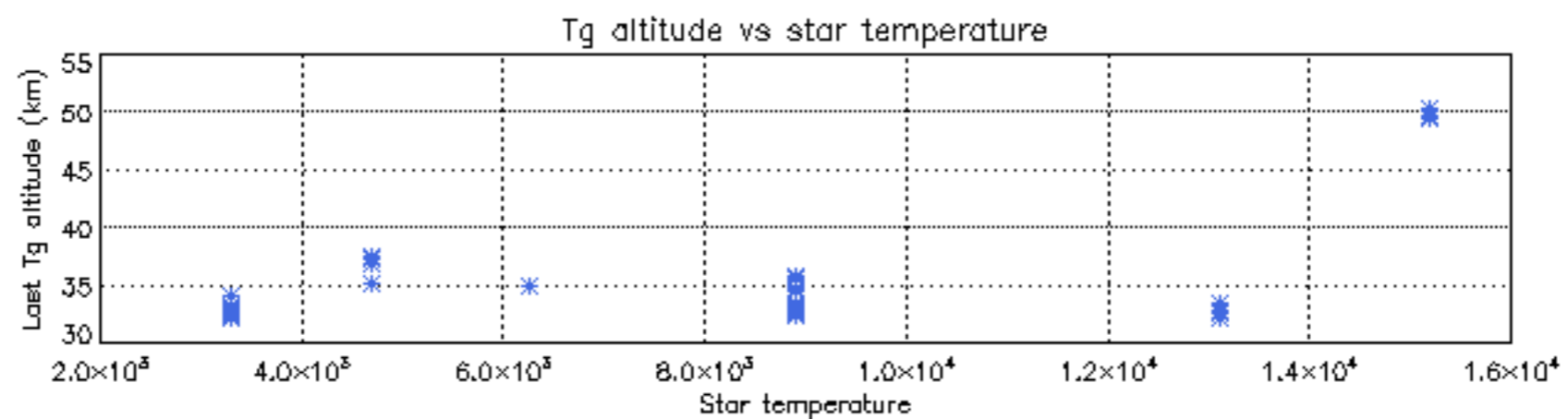
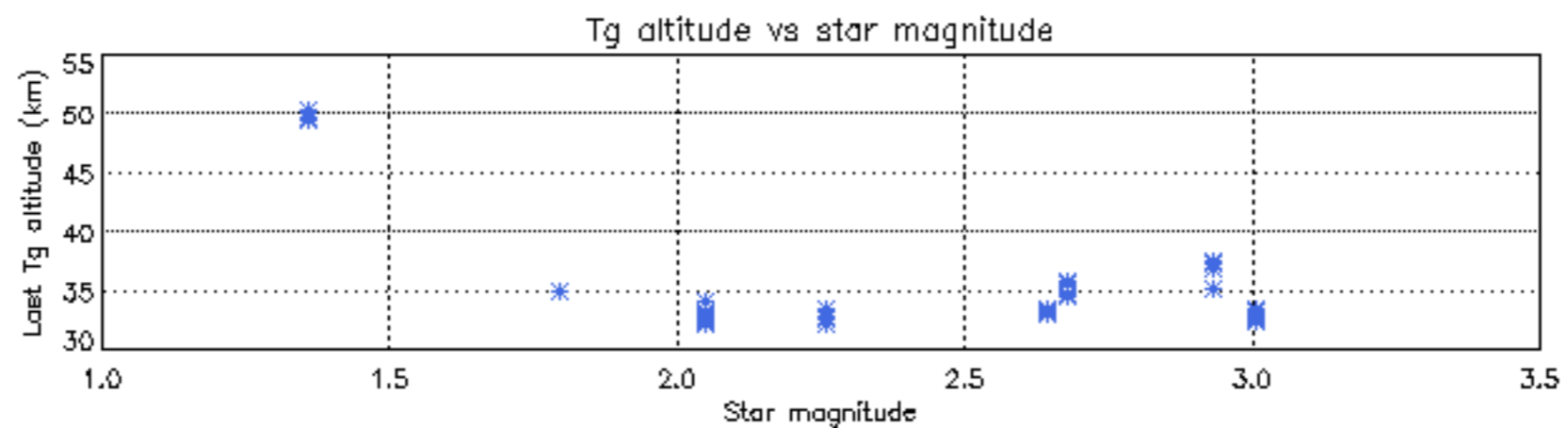
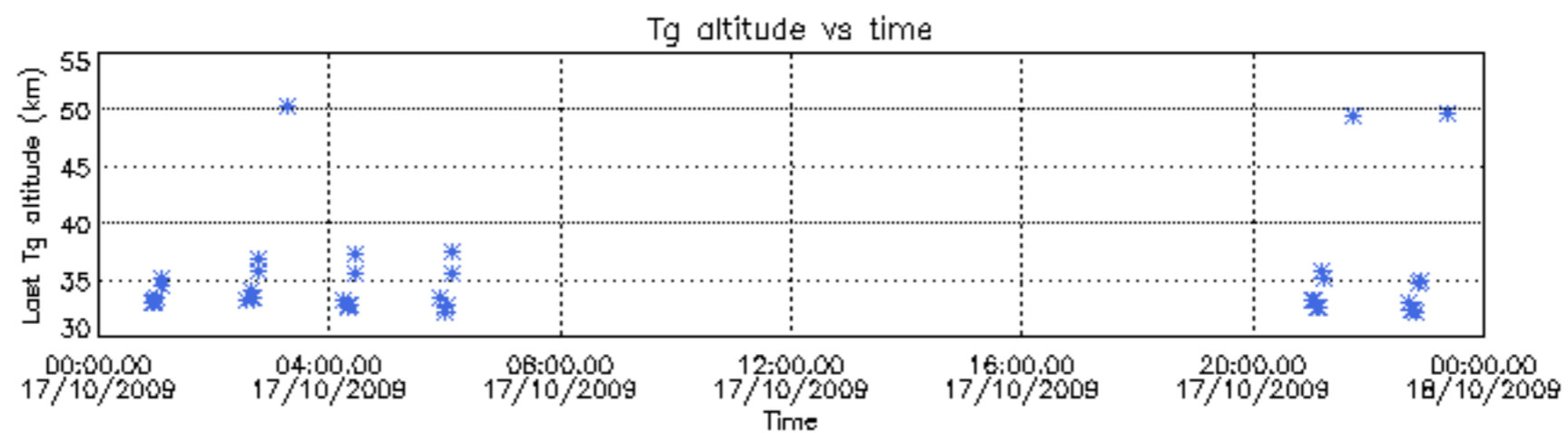
Percentage of saturation errors per profile

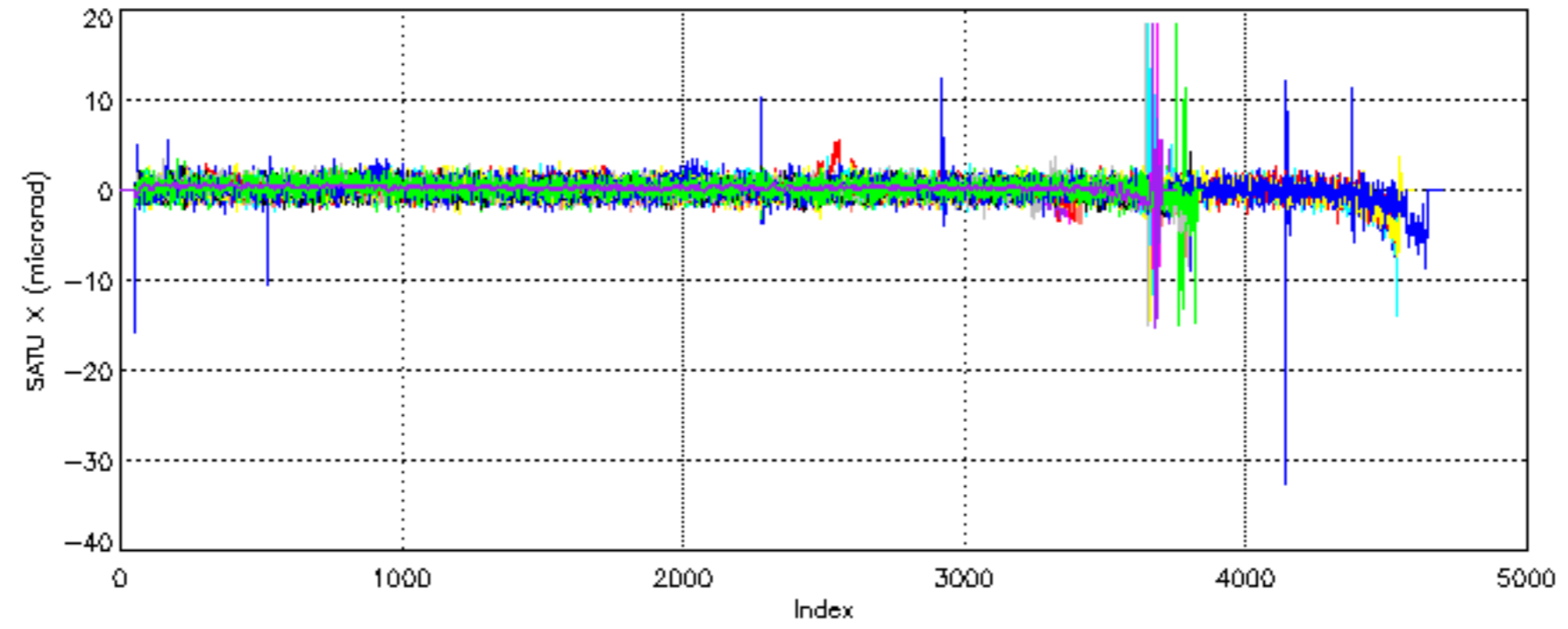


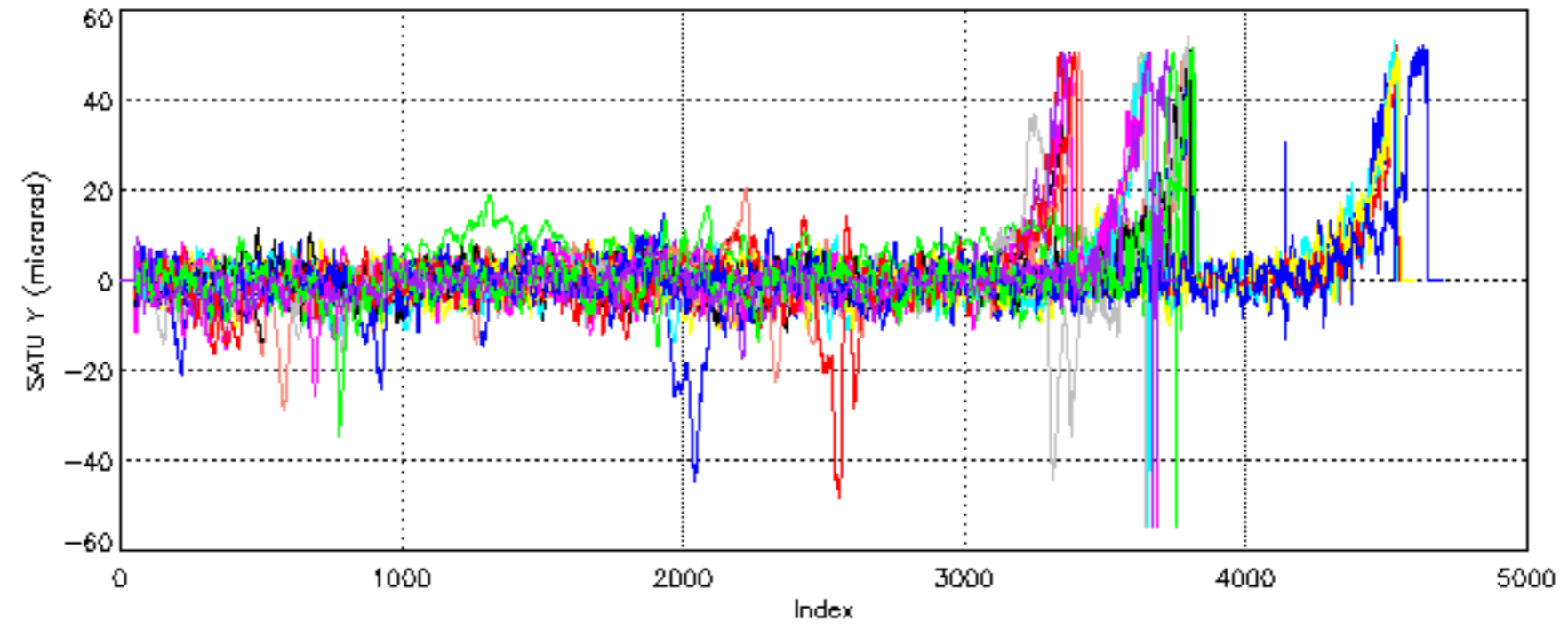
Tangent altitude at which the star is lost

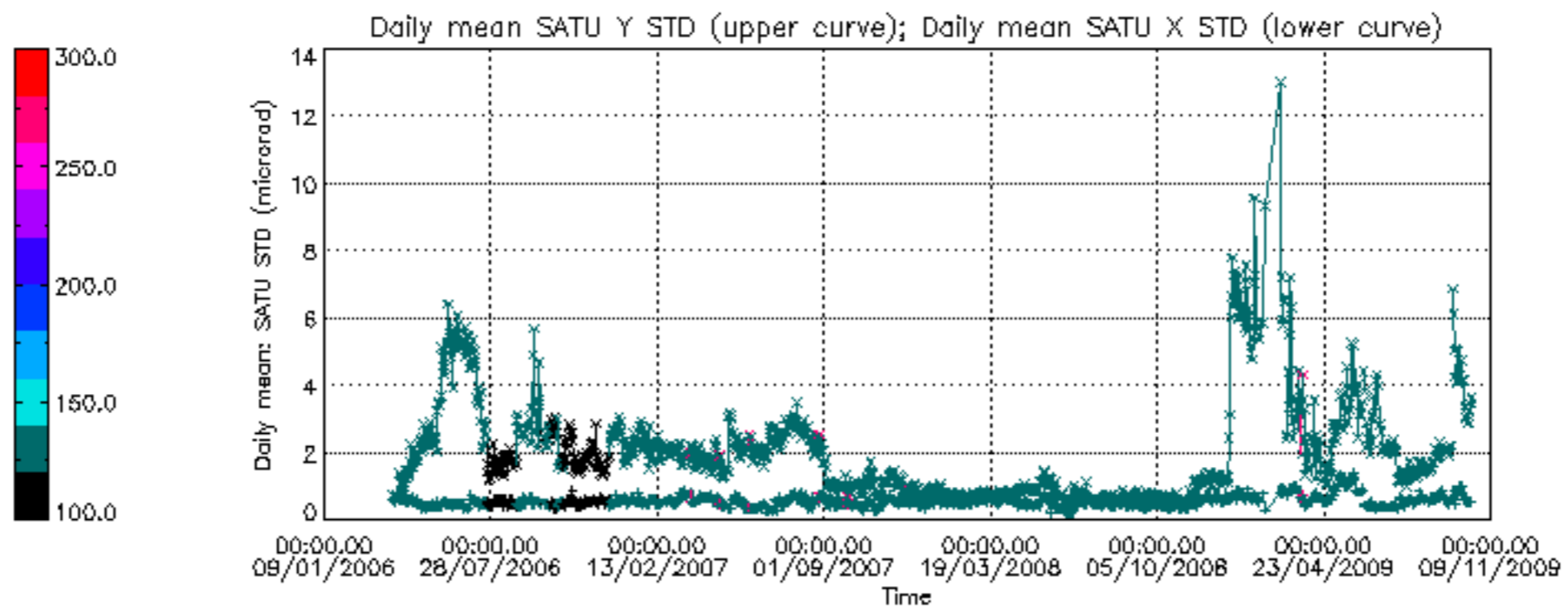


Tangent altitude at which the star is lost









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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20091001_000952_000050872083_00030_39663_8658.N1
 1; -449.6; 01-OCT-2009 00:09:52; Dark ; 35.5; 132; 15Rho Pup ; 2.80; 6900;occ; 71; 0;39663
 2; -232.4; 01-OCT-2009 00:13:29; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39663
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 4; 2651.9; 01-OCT-2009 21:08:45; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;39676
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 6; 925.3; 01-OCT-2009 22:20:34; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;39677

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5; 2942.4; 01-OCT-2009 14:31:12; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39672
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3;	-274.4;	13-OCT-2009	05:37:35;	Dark	;	42.5;	132;	15Rho Pup	;	2.80;	6900;occ;	85;	0;	39838
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13;	2999.1;	13-OCT-2009	06:32:09;	Bright;	;	33.5;	110;	37Del Cas	;	2.68;	8900;occ;	67;	0;	39839
14;	3111.7;	13-OCT-2009	06:34:01;	Bright;	;	40.5;	160;	23Gam Per	;	2.93;	4700;occ;	81;	0;	39839
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3;	2564.0;	13-OCT-2009	21:30:17;	Bright;	;	35.5;	53;	43Bet And	;	2.05;	3300;occ;	71;	0;	39848
4;	2673.5;	13-OCT-2009	21:32:07;	Bright;	;	42.5;	173;	4Bet Tri	;	3.00;	8900;occ;	85;	0;	39848
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7;	3104.2;	13-OCT-2009	21:39:17;	Bright;	;	41.0;	160;	23Gam Per	;	2.93;	4700;occ;	82;	0;	39848
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3;	-74.4;	13-OCT-2009	22:26:55;	Dark	;	37.5;	70;	Zet Pup	;	2.25;	39000;occ;	75;	0;	39848
4;	108.8;	13-OCT-2009	22:29:58;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	39849
5;	234.6;	13-OCT-2009	22:32:04;	Dark	;	37.0;	161;	Tau Pup	;	2.93;	4500;occ;	74;	0;	39849
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10;	2672.7;	13-OCT-2009	23:12:42;	Bright;	;	42.5;	173;	4Bet Tri	;	3.00;	8900;occ;	85;	0;	39849
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12;	2995.8;	13-OCT-2009	23:18:05;	Bright;	;	33.5;	110;	37Del Cas	;	2.68;	8900;occ;	67;	0;	39849
13;	3103.4;	13-OCT-2009	23:19:52;	Bright;	;	40.5;	160;	23Gam Per	;	2.93;	4700;occ;	81;	0;	39849
14;	4627.7;	13-OCT-2009	23:45:17;	Bright;	;	28.5;	166;	17Eps Leo	;	2.98;	6000;occ;	57;	0;	39849
15;	5255.9;	13-OCT-2009	23:55:45;	Dark	;	32.0;	48;	30Alp Hya	;	1.98;	4100;occ;	64;	0;	39849
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2;	-260.9;	14-OCT-2009	00:04:24;	Dark	;	43.0;	132;	15Rho Pup	;	2.80;	6900;occ;	86;	0;	39849
3;	-73.5;	14-OCT-2009	00:07:31;	Dark	;	37.5;	70;	Zet Pup	;	2.25;	39000;occ;	75;	0;	39849
4;	109.7;	14-OCT-2009	00:10:35;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	39850
5;	235.4;	14-OCT-2009	00:12:40;	Dark	;	37.0;	161;	Tau Pup	;	2.93;	4500;occ;	74;	0;	39850
6;	317.1;	14-OCT-2009	00:14:02;	Dark	;	37.0;	2;	Alp Car	;	-0.74;	7000;occ;	74;	0;	39850
7;	1031.5;	14-OCT-2009	00:25:56;	Dark	;	36.0;	157;	The1Eri	;	2.91;	9300;occ;	72;	0;	39850
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9;	2563.1;	14-OCT-2009	00:51:28;	Bright;	;	35.5;	53;	43Bet And	;	2.05;	3300;occ;	71;	0;	39850
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12;	2995.4;	14-OCT-2009	00:58:40;	Bright;	;	33.5;	110;	37Del Cas	;	2.68;	8900;occ;	67;	0;	39850
13;	4627.9;	14-OCT-2009	01:25:53;	Bright;	;	28.5;	166;	17Eps Leo	;	2.98;	6000;occ;	57;	0;	39850
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4; -82.2; 13-OCT-2009 07:21:23; Dark ; 37.0; 70; Zet Pup ; 2.25; 39000;occ; 74; 0;39839
5; 101.0; 13-OCT-2009 07:24:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39840
6; 227.1; 13-OCT-2009 07:26:33; Dark ; 37.0; 161; Tau Pup ; 2.93; 4500;occ; 74; 0;39840
7; 309.0; 13-OCT-2009 07:27:55; Dark ; 37.0; 2; Alp Car ; -0.74; 7000;occ; 74; 0;39840
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2; 2566.9; 13-OCT-2009 08:05:33; Bright; 36.0; 53; 43Bet And ; 2.05; 3300;occ; 72; 0;39840
3; 2679.7; 13-OCT-2009 08:07:25; Bright; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;39840
4; 2788.1; 13-OCT-2009 08:09:14; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;39840
5; 2998.9; 13-OCT-2009 08:12:45; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;39840
6; 3111.1; 13-OCT-2009 08:14:37; Bright; 40.5; 160; 23Gam Per ; 2.93; 4700;occ; 82; 0;39841
7; 4625.4; 13-OCT-2009 08:39:51; Bright; 28.5; 166; 17Eps Leo ; 2.98; 6000;occ; 57; 0;39840
8; 5250.4; 13-OCT-2009 08:50:16; Dark ; 32.5; 48; 30Alp Hya ; 1.98; 4100;occ; 65; 0;39840
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11; 6137.7; 13-OCT-2009 09:05:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39840
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13; 6345.8; 13-OCT-2009 09:08:31; Dark ; 37.0; 2; Alp Car ; -0.74; 7000;occ; 74; 0;39840
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3; 2679.1; 13-OCT-2009 09:48:01; Bright; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;39841
4; 2787.5; 13-OCT-2009 09:49:49; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;39841
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6; 3110.0; 13-OCT-2009 09:55:12; Bright; 41.0; 160; 23Gam Per ; 2.93; 4700;occ; 82; 0;39841
7; 4625.8; 13-OCT-2009 10:20:27; Bright; 28.5; 166; 17Eps Leo ; 2.98; 6000;occ; 57; 0;39841
8; 5251.2; 13-OCT-2009 10:30:53; Dark ; 32.0; 48; 30Alp Hya ; 1.98; 4100;occ; 64; 0;39841
9; 5765.5; 13-OCT-2009 10:39:27; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;39841
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11; 6138.6; 13-OCT-2009 10:45:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39841
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13; 6346.5; 13-OCT-2009 10:49:08; Dark ; 37.0; 2; Alp Car ; -0.74; 7000;occ; 74; 0;39841
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4; 2785.8; 13-OCT-2009 13:10:59; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;39843
5; 2998.1; 13-OCT-2009 13:14:31; Bright; 33.0; 110; 37Del Cas ; 2.68; 8900;occ; 66; 0;39843
6; 3108.4; 13-OCT-2009 13:16:22; Bright; 41.0; 160; 23Gam Per ; 2.93; 4700;occ; 82; 0;39843
7; 4626.3; 13-OCT-2009 13:41:40; Bright; 28.5; 166; 17Eps Leo ; 2.98; 6000;occ; 57; 0;39843
8; 5252.3; 13-OCT-2009 13:52:06; Dark ; 32.5; 48; 30Alp Hya ; 1.98; 4100;occ; 65; 0;39843
9; 5767.7; 13-OCT-2009 14:00:41; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;39843
10; 5957.4; 13-OCT-2009 14:03:51; Dark ; 37.0; 70; Zet Pup ; 2.25; 39000;occ; 74; 0;39843
11; 6140.4; 13-OCT-2009 14:06:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39843
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13; 6348.0; 13-OCT-2009 14:10:21; Dark ; 37.0; 2; Alp Car ; -0.74; 7000;occ; 74; 0;39843
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4; 2785.3; 13-OCT-2009 14:51:34; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;39844
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6; 3107.4; 13-OCT-2009 14:56:57; Bright; 41.0; 160; 23Gam Per ; 2.93; 4700;occ; 82; 0;39844
7; 4626.5; 13-OCT-2009 15:22:16; Bright; 28.5; 166; 17Eps Leo ; 2.98; 6000;occ; 57; 0;39844
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12; 6267.0; 13-OCT-2009 15:49:36; Dark ; 37.0; 161; Tau Pup ; 2.93; 4500;occ; 74; 0;39844
13; 6349.2; 13-OCT-2009 15:50:58; Dark ; 37.0; 2; Alp Car ; -0.74; 7000;occ; 74; 0;39844

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 3; 2676.0; 13-OCT-2009 16:30:21; Bright; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;39845
 4; 2784.6; 13-OCT-2009 16:32:10; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;39845
 5; 2997.2; 13-OCT-2009 16:35:42; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;39845
 6; 3106.7; 13-OCT-2009 16:37:32; Bright; 41.0; 160; 23Gam Per ; 2.93; 4700;occ; 82; 0;39845
 7; 4626.8; 13-OCT-2009 17:02:52; Bright; 28.5; 166; 17Eps Leo ; 2.98; 6000;occ; 57; 0;39845
 8; 5253.7; 13-OCT-2009 17:13:19; Dark ; 32.5; 48; 30Alp Hya ; 1.98; 4100;occ; 65; 0;39845
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13; 6350.0; 13-OCT-2009 17:31:35; Dark ; 37.0; 2; Alp Car ;-0.74; 7000;occ; 74; 0;39845
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 4; 2783.8; 13-OCT-2009 18:12:45; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;39846
 5; 2996.9; 13-OCT-2009 18:16:18; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;39846
 6; 3105.9; 13-OCT-2009 18:18:07; Bright; 41.0; 160; 23Gam Per ; 2.93; 4700;occ; 82; 0;39846
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11; 6143.1; 13-OCT-2009 19:08:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39846
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 5; 2783.3; 13-OCT-2009 19:53:20; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;39847
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 5; 317.7; 14-OCT-2009 01:54:38; Dark ; 37.0; 2; Alp Car ;-0.74; 7000;occ; 74; 0;39851
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 5; 236.9; 14-OCT-2009 03:33:53; Dark ; 37.0; 161; Tau Pup ; 2.93; 4500;occ; 74; 0;39852
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 3; 270.7; 26-OCT-2009 07:18:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40026
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3; 6162.6; 26-OCT-2009 12:18:03; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40028
4; 6309.4; 26-OCT-2009 12:20:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40028
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3; 5407.6; 26-OCT-2009 13:46:04; Dark ; 19.5; 48; 30Alp Hya ; 1.98; 4100;occ; 39; 0;40029
4; 6163.3; 26-OCT-2009 13:58:40; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40029
5; 6310.4; 26-OCT-2009 14:01:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40029
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3; 4894.8; 26-OCT-2009 15:18:07; Bright; 43.5; 22; 32Alp Leo ; 1.36; 15200;occ; 87; 0;40030
4; 6311.4; 26-OCT-2009 15:41:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40030
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2; 2681.2; 27-OCT-2009 15:50:12; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;40045
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