

GOMOS Daily Report 25-JAN-2011

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	28JAN2011 04:50:29
Data source version	GOMOS/5.01
Start time of products	25JAN2011 00:00:30
Stop time of products	25JAN2011 23:57:29
Store outputs in DB	Yes
Nb of level 1b prods	101
Nb of prods with errors	1

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

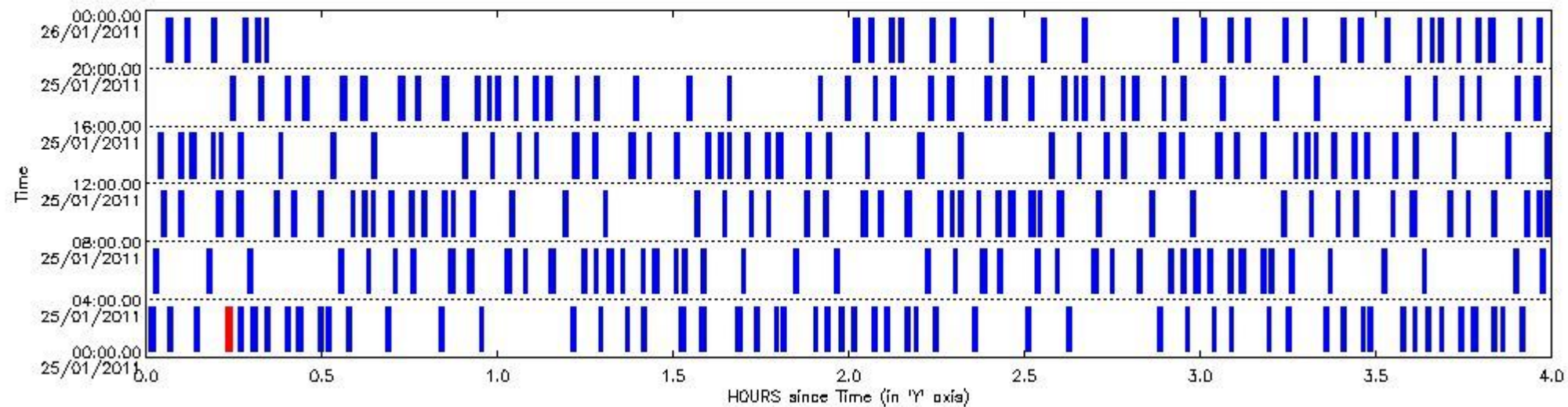
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

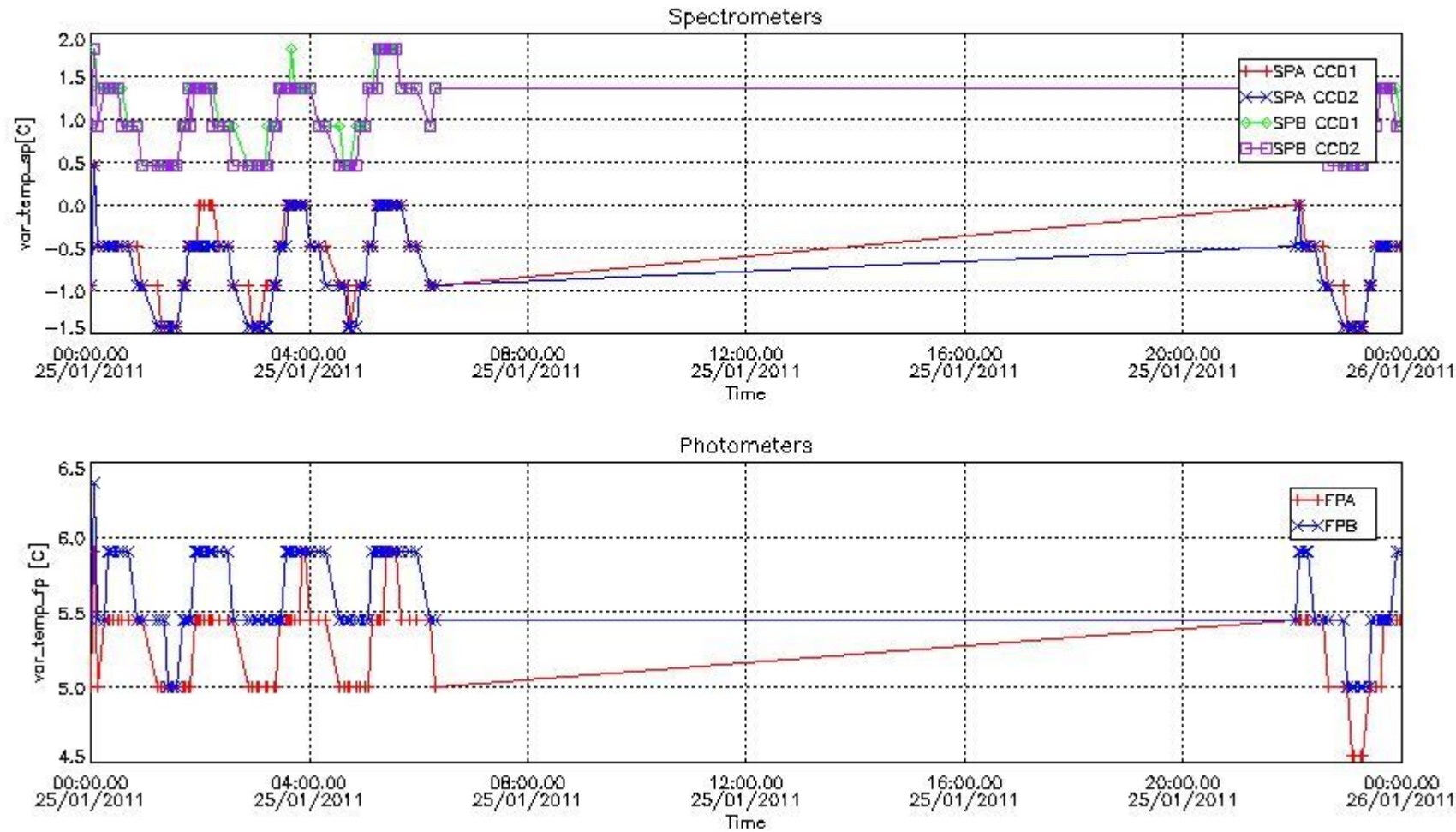
UTC start time	Star name	Star ID	Orbit
25-JAN-2011 00:13:38	GamLup	131	46553

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_1PNPDE20110125_000030_000000623098_00418_46553_6403.N1	25-JAN-2011 00:00:30	Bright	62.000	102	24Alp Ser	2.6000	4250.0	124	46553	No
2	GOM_TRA_1PNPDE20110125_000337_000000463098_00418_46553_6403.N1	25-JAN-2011 00:03:37	Twilight_stray	45.500	98	13Zet Oph	2.5710	30000.	91	46553	Yes
3	GOM_TRA_1PNPDE20110125_000807_000000513098_00418_46553_6404.N1	25-JAN-2011 00:08:07	Dark	50.500	16	21Alp Sco	1.0200	3000.0	101	46553	No
4	GOM_TRA_1PNPDE20110125_001543_000000443098_00418_46553_6405.N1	25-JAN-2011 00:15:43	Dark	43.500	109	Bet Lup	2.6770	26000.	87	46553	No
5	GOM_TRA_1PNPDE20110125_001754_000000573098_00419_46554_6406.N1	25-JAN-2011 00:17:54	Dark	56.500	54	5The Cen	2.0550	4500.0	113	46554	No
6	GOM_TRA_1PNPDE20110125_002018_000000523098_00419_46554_6407.N1	25-JAN-2011 00:20:18	Dark	51.500	10	Bet Cen	0.61000	28000.	103	46554	No
7	GOM_TRA_1PNPDE20110125_002345_000000433098_00419_46554_6408.N1	25-JAN-2011 00:23:45	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	46554	No
8	GOM_TRA_1PNPDE20110125_002919_000000473098_00419_46554_6409.N1	25-JAN-2011 00:29:19	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	46554	No
9	GOM_TRA_1PNPDE20110125_003048_000000423098_00419_46554_6410.N1	25-JAN-2011 00:30:48	Dark	41.500	91	Kap Vel	2.4900	26000.	83	46554	No
10	GOM_TRA_1PNPDE20110125_003407_000000473098_00419_46554_6411.N1	25-JAN-2011 00:34:07	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	46554	No

70	GOM_TRA_1PNPDE20110125_053003_000000443098_00422_46557_6497.N1	25-JAN-2011 05:30:03	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	46557	No
71	GOM_TRA_1PNPDE20110125_053131_000000403098_00422_46557_6498.N1	25-JAN-2011 05:31:31	Dark	39.500	91	Kap Vel	2.4900	26000.	79	46557	No
72	GOM_TRA_1PNPDE20110125_053450_000000473098_00422_46557_6499.N1	25-JAN-2011 05:34:50	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	46557	No
73	GOM_TRA_1PNPDE20110125_054135_000000453098_00422_46557_6500.N1	25-JAN-2011 05:41:35	Straylight	44.500	132	15Rho Pup	2.8030	6900.0	89	46557	No
74	GOM_TRA_1PNPDE20110125_055039_000000473098_00422_46557_6501.N1	25-JAN-2011 05:50:39	Twilight_stray	47.000	8	10Alp CMi	0.40000	6500.0	94	46557	No
75	GOM_TRA_1PNPDE20110125_055735_000000423098_00422_46557_6502.N1	25-JAN-2011 05:57:35	Bright	42.000	17	78Bet Gem	1.1610	4500.0	84	46557	No
76	GOM_TRA_1PNPDE20110125_061308_000000483098_00422_46557_6503.N1	25-JAN-2011 06:13:08	Bright	48.000	36	50Alp UMa	1.8000	6300.0	96	46557	No
77	GOM_TRA_1PNPDE20110125_061753_000000363098_00422_46557_6504.N1	25-JAN-2011 06:17:53	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	46557	No
78	GOM_TRA_1PNPDE20110125_220328_000000433099_00001_46567_6613.N1	25-JAN-2011 22:03:28	Dark	42.500	10	Bet Cen	0.61000	28000.	85	46567	No
79	GOM_TRA_1PNPDE20110125_220654_000000443099_00001_46567_6614.N1	25-JAN-2011 22:06:54	Dark	43.500	12	Alp1Cru	0.77500	30000.	87	46567	No
80	GOM_TRA_1PNPDE20110125_220832_000000473099_00001_46567_6615.N1	25-JAN-2011 22:08:32	Dark	46.500	99	Del Cen	2.5750	26000.	93	46567	No
81	GOM_TRA_1PNPDE20110125_221355_000000413099_00001_46567_6616.N1	25-JAN-2011 22:13:55	Dark	40.500	91	Kap Vel	2.4900	26000.	81	46567	No
82	GOM_TRA_1PNPDE20110125_221715_000000473099_00001_46567_6617.N1	25-JAN-2011 22:17:15	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	46567	No
83	GOM_TRA_1PNPDE20110125_222357_000000423099_00001_46567_6618.N1	25-JAN-2011 22:23:57	Straylight	42.000	132	15Rho Pup	2.8030	6900.0	84	46567	No
84	GOM_TRA_1PNPDE20110125_223258_000000473099_00001_46567_6619.N1	25-JAN-2011 22:32:58	Twilight_stray	46.500	8	10Alp CMi	0.40000	6500.0	93	46567	No
85	GOM_TRA_1PNPDE20110125_223952_000000443099_00001_46567_6620.N1	25-JAN-2011 22:39:52	Bright	44.000	17	78Bet Gem	1.1610	4500.0	88	46567	No
86	GOM_TRA_1PNPDE20110125_225521_000000483099_00001_46567_6621.N1	25-JAN-2011 22:55:21	Bright	48.000	36	50Alp UMa	1.8000	6300.0	96	46567	No
87	GOM_TRA_1PNPDE20110125_230011_000000413099_00001_46567_6622.N1	25-JAN-2011 23:00:11	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	46567	No
88	GOM_TRA_1PNPDE20110125_230445_000000533099_00001_46567_6623.N1	25-JAN-2011 23:04:45	Bright	53.000	119	14Eta Dra	2.7270	4700.0	106	46567	No
89	GOM_TRA_1PNPDE20110125_230742_000000543099_00001_46567_6624.N1	25-JAN-2011 23:07:42	Bright	54.000	130	23Bet Dra	2.7990	5800.0	108	46567	No
90	GOM_TRA_1PNPDE20110125_231410_000000413099_00001_46567_6625.N1	25-JAN-2011 23:14:10	Bright	40.500	133	40Zet Her	2.8070	6000.0	81	46567	No
91	GOM_TRA_1PNPDE20110125_231732_000000423099_00001_46567_6626.N1	25-JAN-2011 23:17:32	Bright	42.000	127	27Bet Her	2.7810	4700.0	84	46567	No
92	GOM_TRA_1PNPDE20110125_232356_000000613099_00001_46567_6627.N1	25-JAN-2011 23:23:56	Twilight_stray	60.500	102	24Alp Ser	2.6000	4250.0	121	46567	No
93	GOM_TRA_1PNPDE20110125_232701_000000443099_00001_46567_6628.N1	25-JAN-2011 23:27:01	Twilight_stray	43.500	98	13Zet Oph	2.5710	30000.	87	46567	No
94	GOM_TRA_1PNPDE20110125_233131_000000533099_00001_46567_6641.N1	25-JAN-2011 23:31:31	Dark	52.500	16	21Alp Sco	1.0200	3000.0	105	46567	No
95	GOM_TRA_1PNPDE20110125_233707_000000423099_00001_46567_6642.N1	25-JAN-2011 23:37:07	Dark	41.500	131	Gam Lup	2.8000	26000.	83	46567	No
96	GOM_TRA_1PNPDE20110125_233910_000000433099_00001_46567_6643.N1	25-JAN-2011 23:39:10	Dark	43.000	109	Bet Lup	2.6770	26000.	86	46567	No
97	GOM_TRA_1PNPDE20110125_234038_000000443099_00002_46568_6644.N1	25-JAN-2011 23:40:38	Dark	43.500	78	Alp Lup	2.3040	28000.	87	46568	No
98	GOM_TRA_1PNPDE20110125_234342_000000433099_00002_46568_6645.N1	25-JAN-2011 23:43:42	Dark	43.000	10	Bet Cen	0.61000	28000.	86	46568	No
99	GOM_TRA_1PNPDE20110125_234709_000000423099_00002_46568_6646.N1	25-JAN-2011 23:47:09	Dark	42.000	12	Alp1Cru	0.77500	30000.	84	46568	No
100	GOM_TRA_1PNPDE20110125_235410_000000413099_00002_46568_6647.N1	25-JAN-2011 23:54:10	Dark	41.000	91	Kap Vel	2.4900	26000.	82	46568	No
101	GOM_TRA_1PNPDE20110125_235729_000000493099_00002_46568_6648.N1	25-JAN-2011 23:57:29	Dark	48.500	65	Lam Vel	2.2040	4400.0	97	46568	No

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



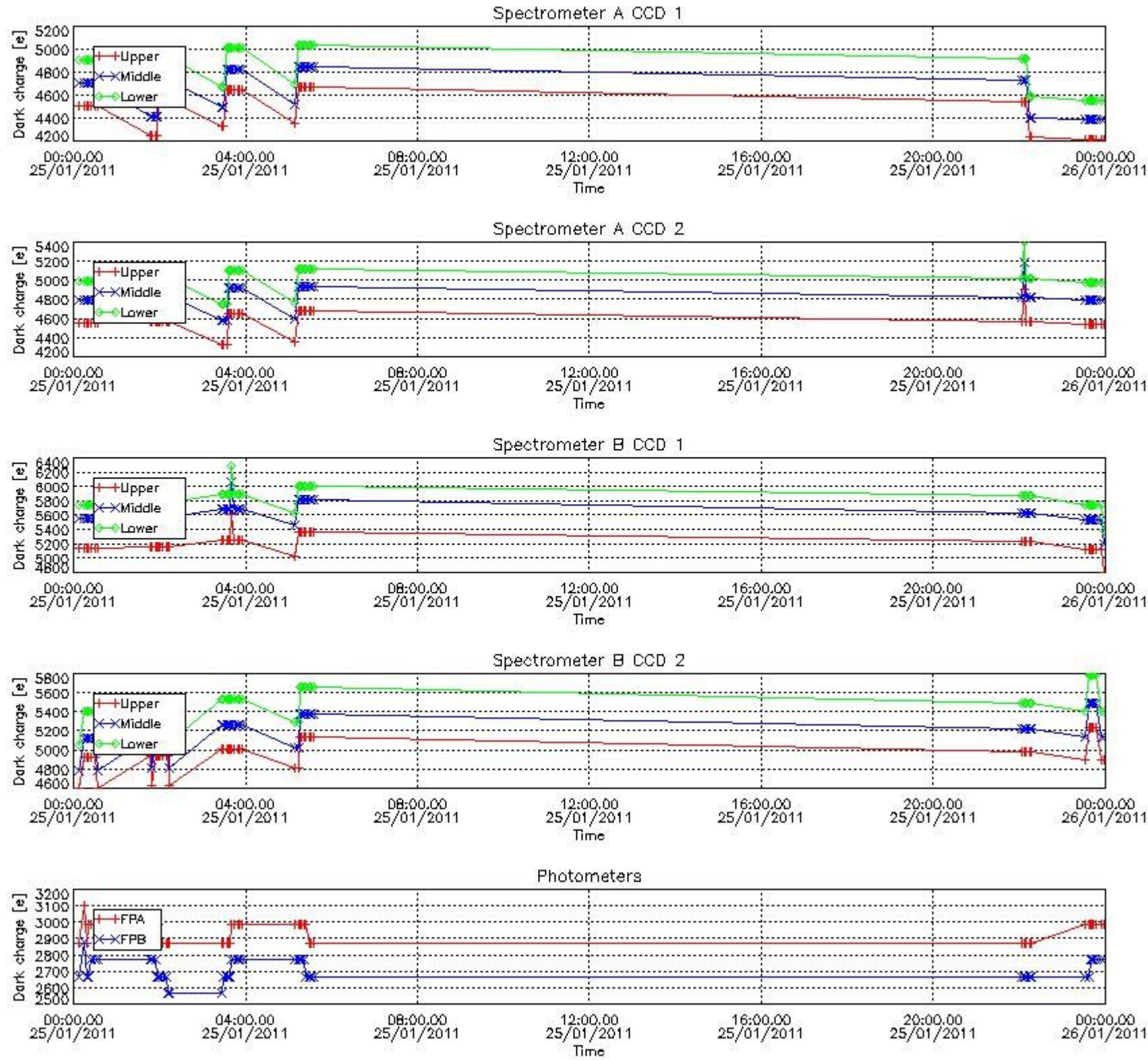
4. Overview of dark signal processing per product

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



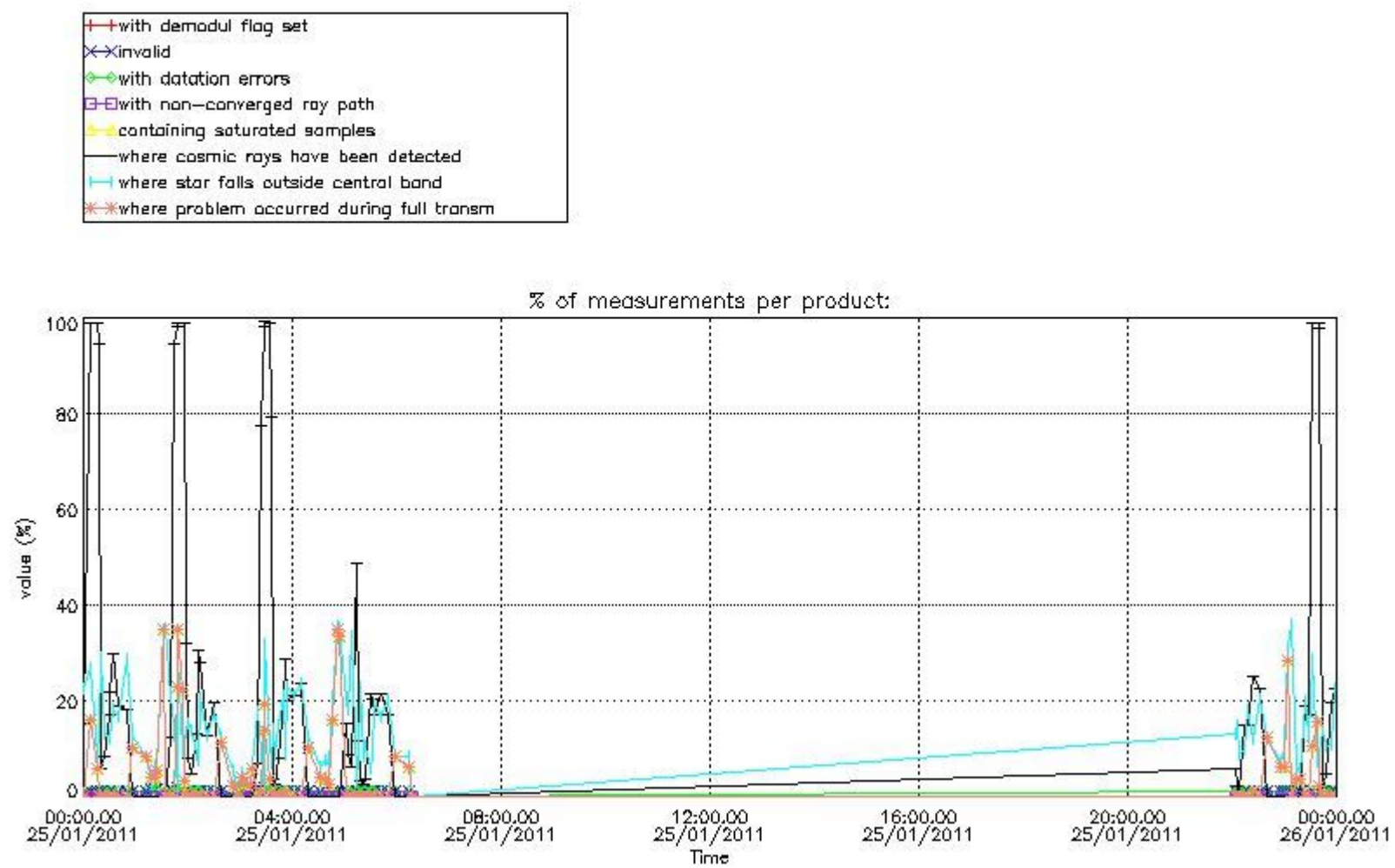
5. Demodulation flag and quality information monitoring

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.

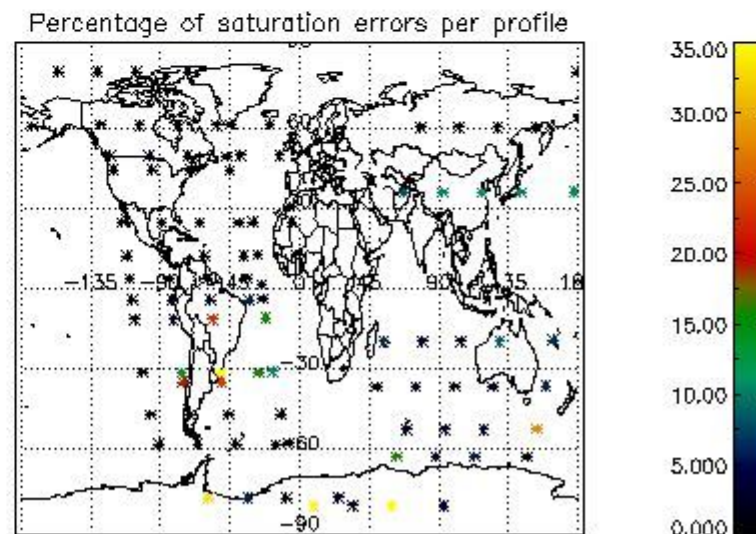
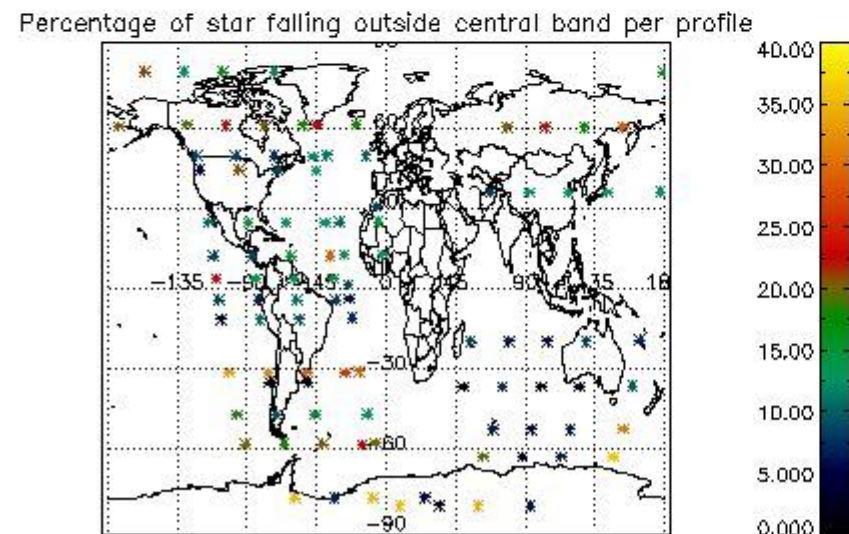
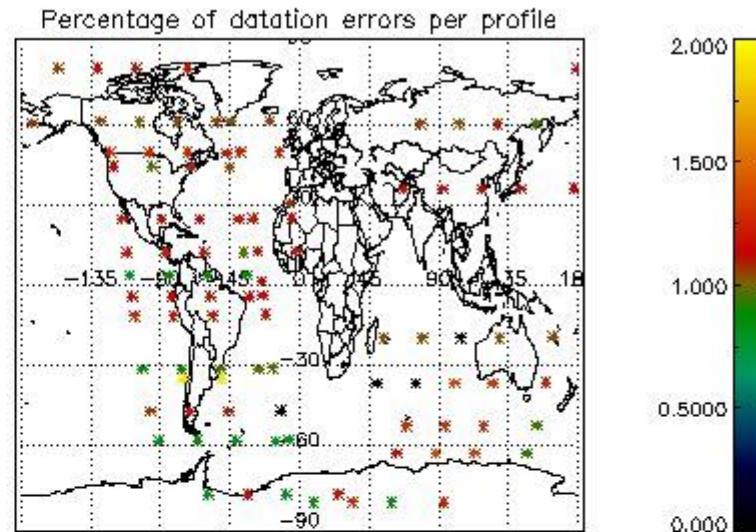
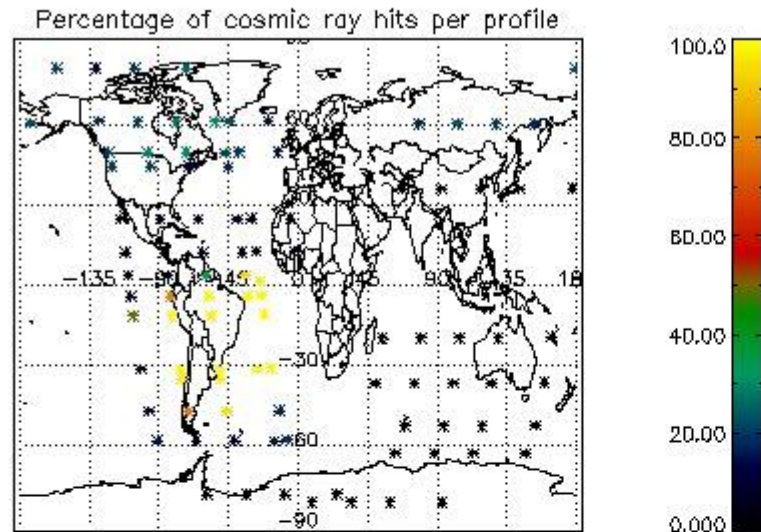
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	57.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



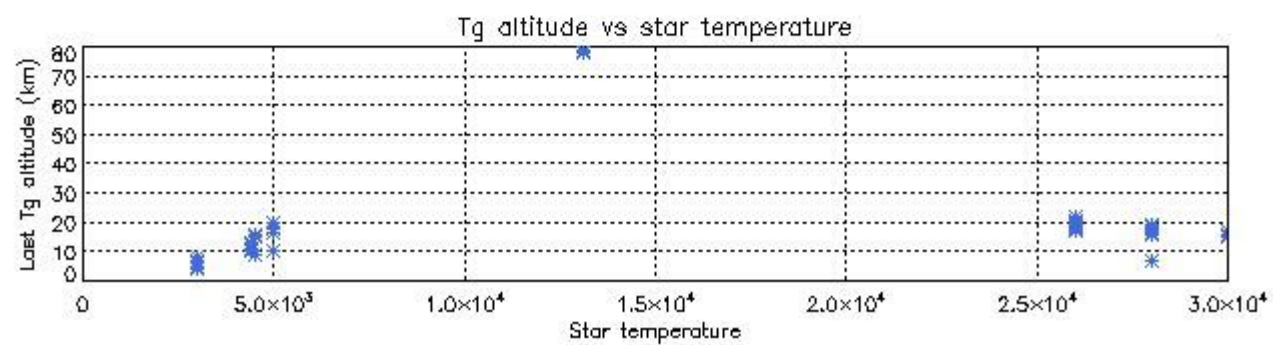
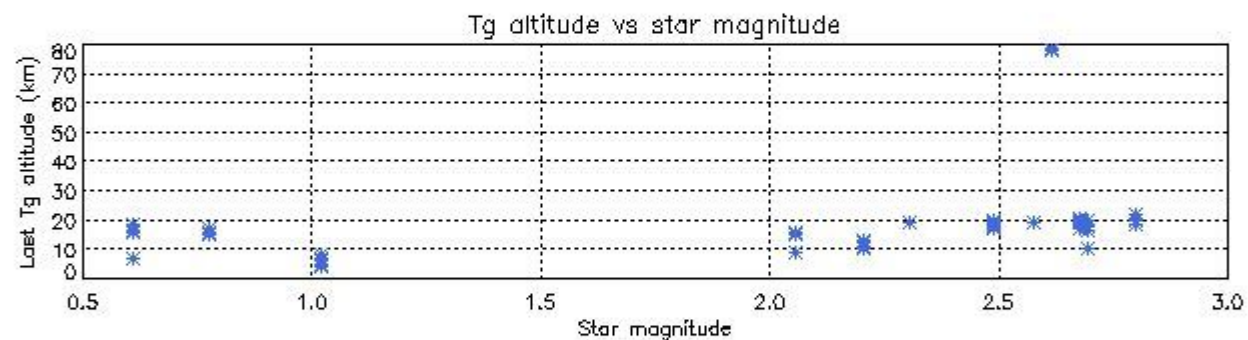
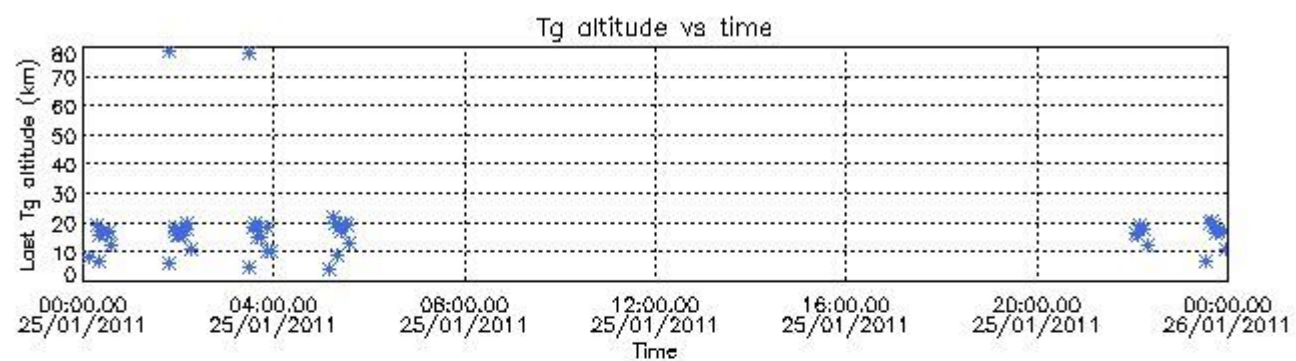
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.755	16.782	NaN
St. deviation:	13.252	7.1371	NaN
Maximum:	78.362	29.053	NaN
Minimum:	4.0475	3.4921	NaN
Number of data:	50.000	32.000	NaN

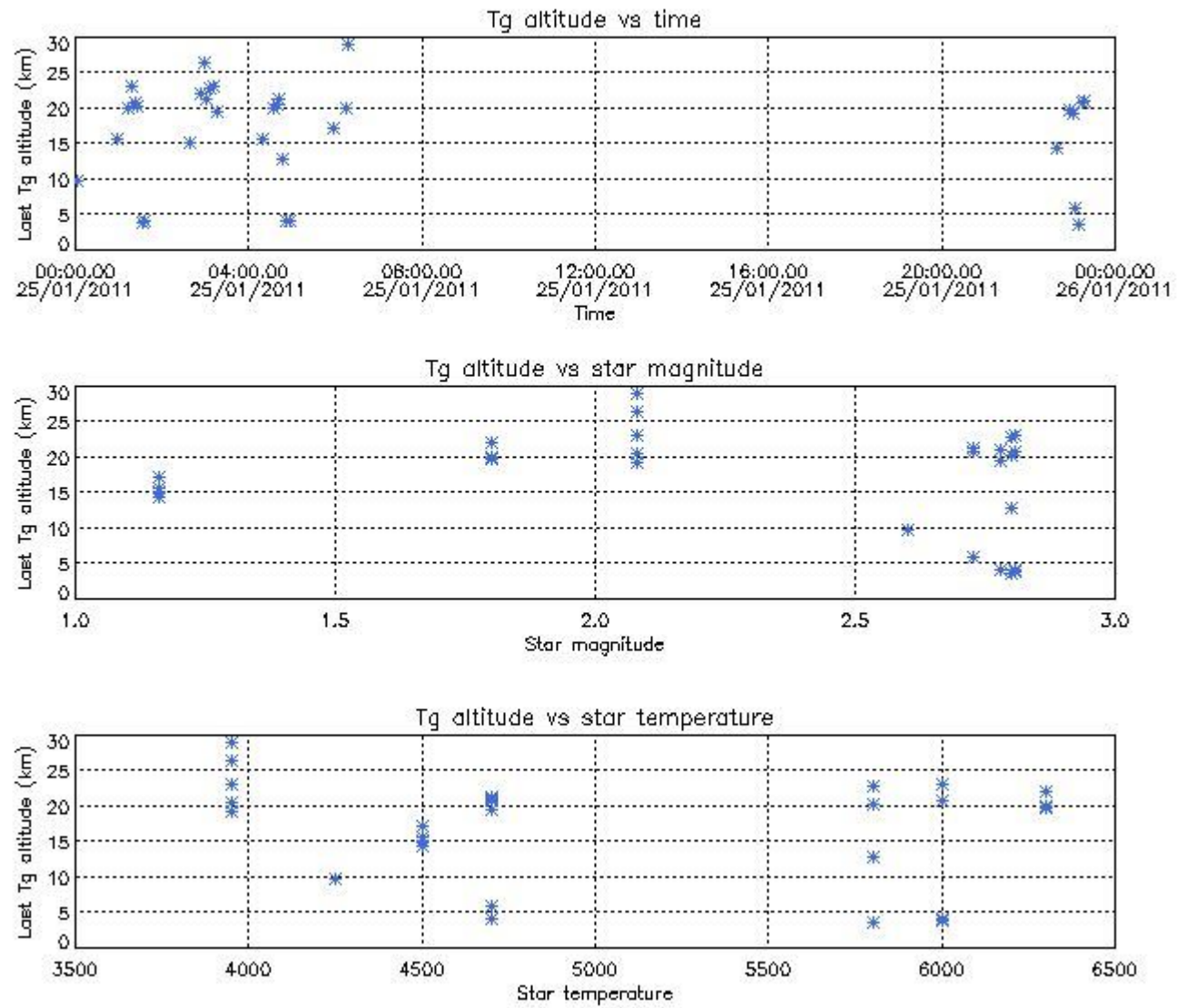
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

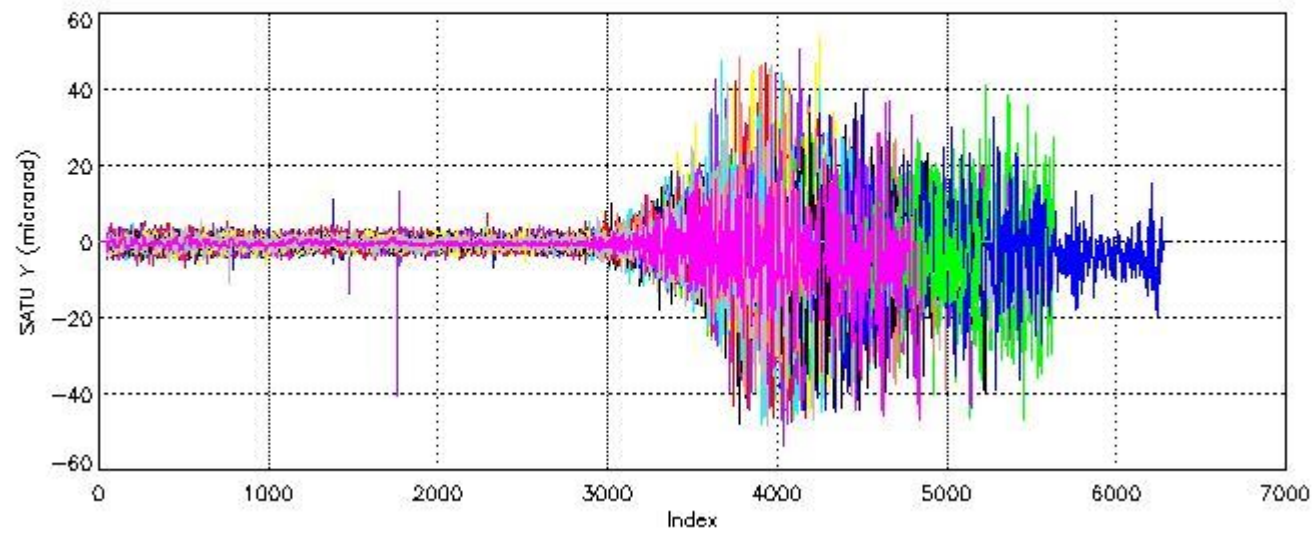
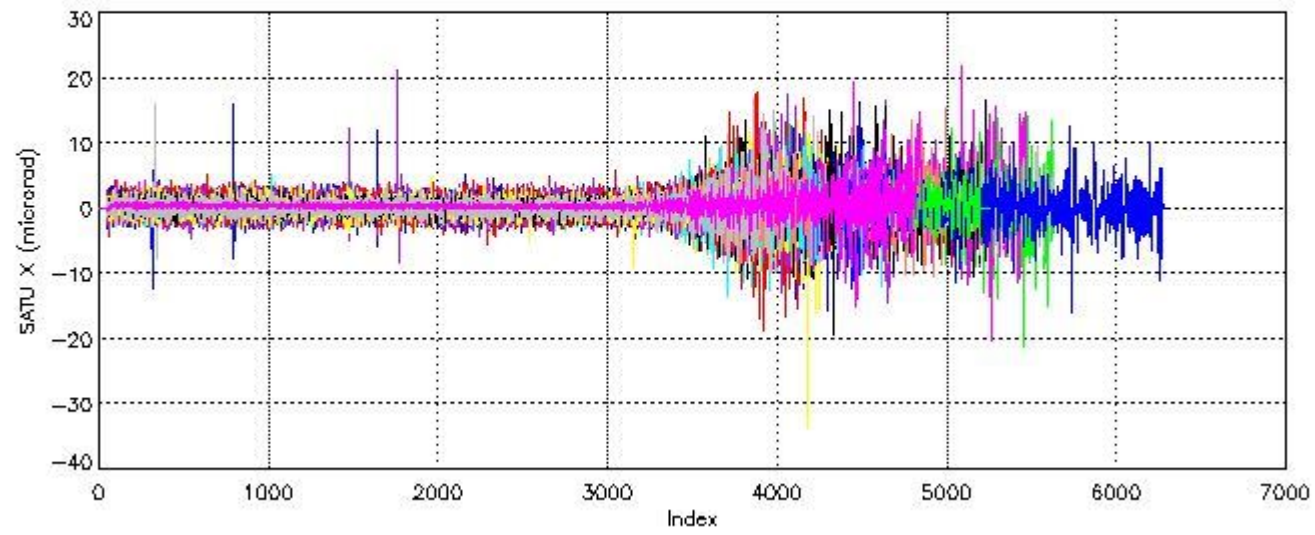


7. Star Acquisition and Tracking Unit (SATU)

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:	0.19258	-0.43932	0.13518	-0.40055
St. deviation:	0.58058	1.0642	0.53915	0.89345
Maximum:	16.000	5.2000	3.6000	3.2000
Minimum:	-12.300	-11.000	-2.8000	-5.1000

Number of data:	51950.	51950.	31050.	31050.
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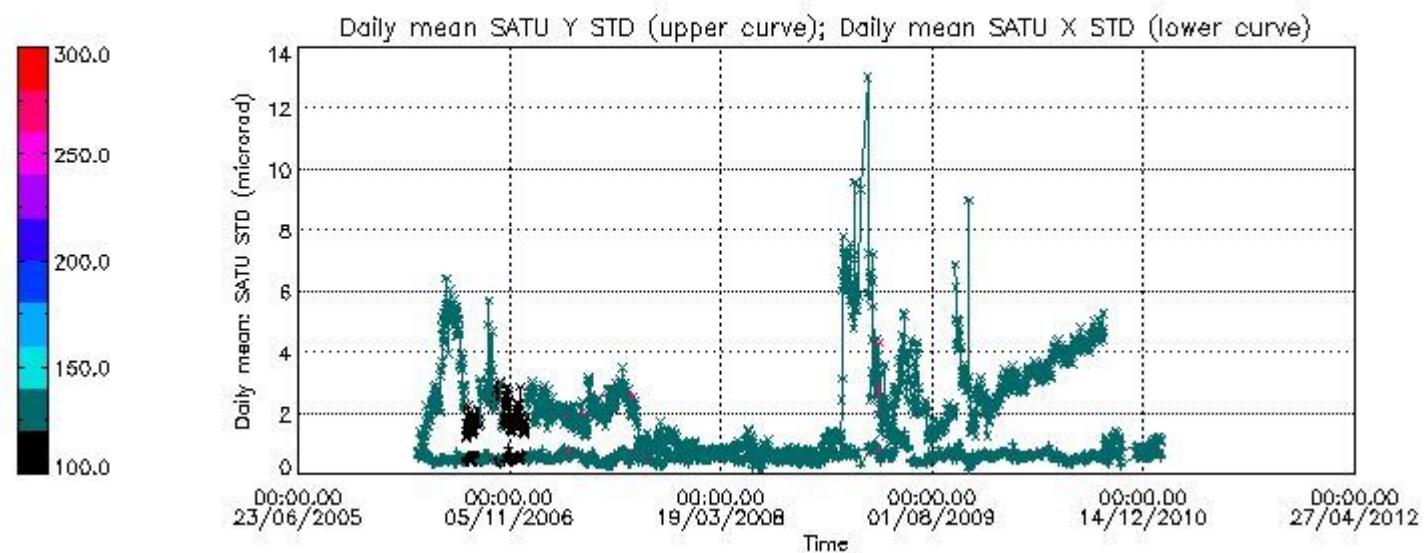
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

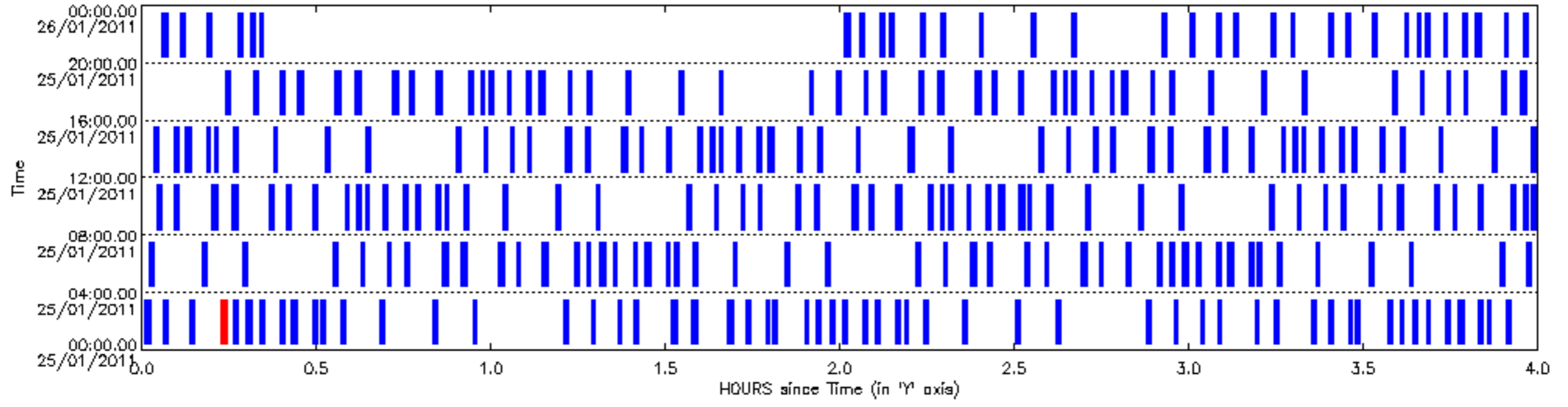
Lower curve: STD of SATU X axis

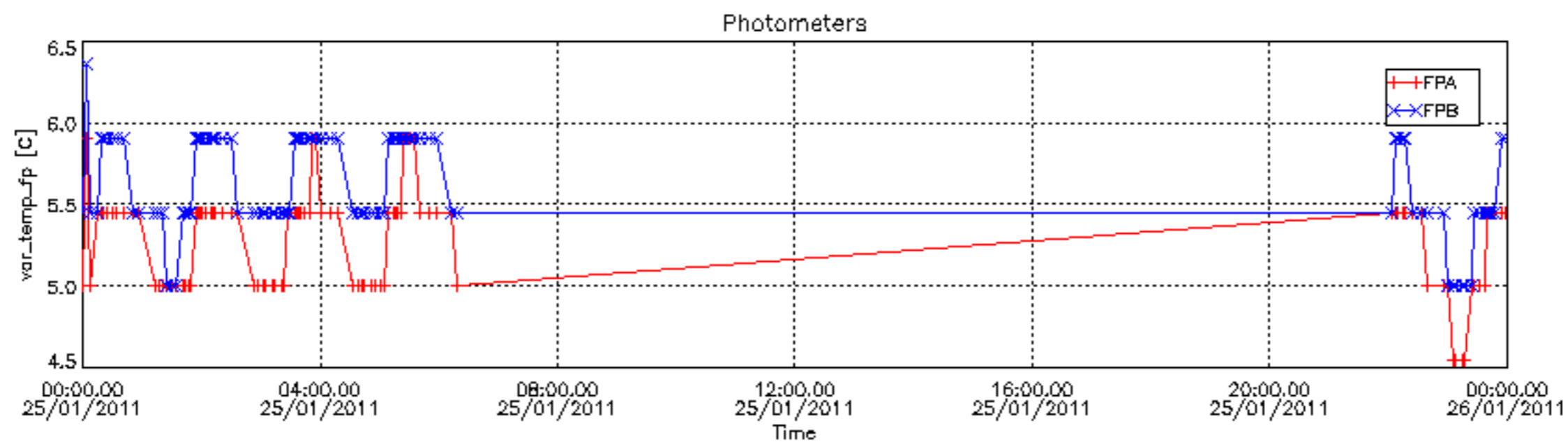
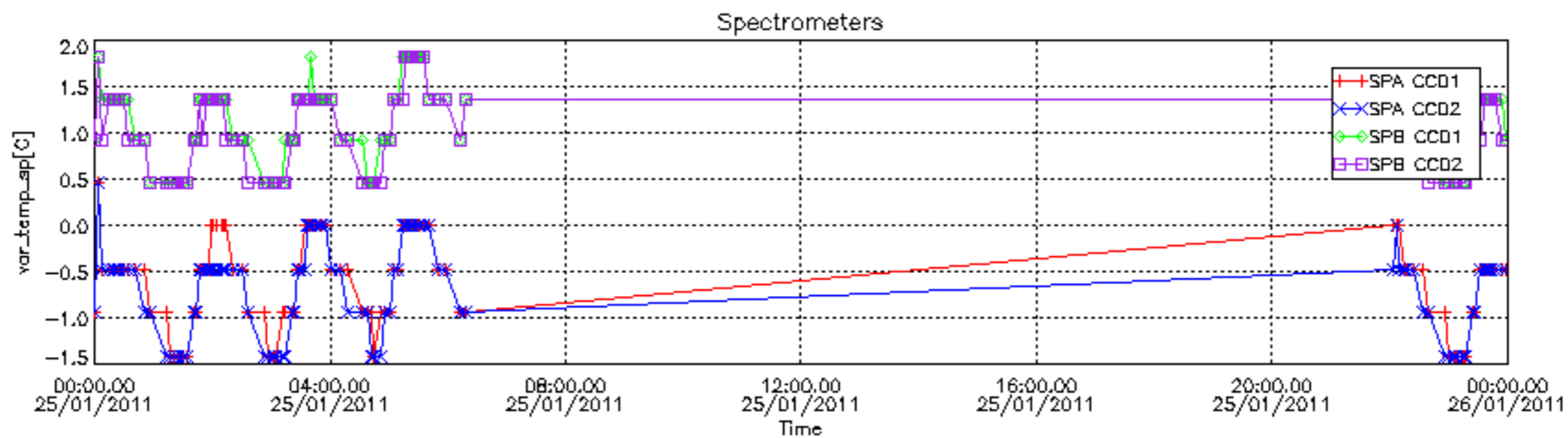


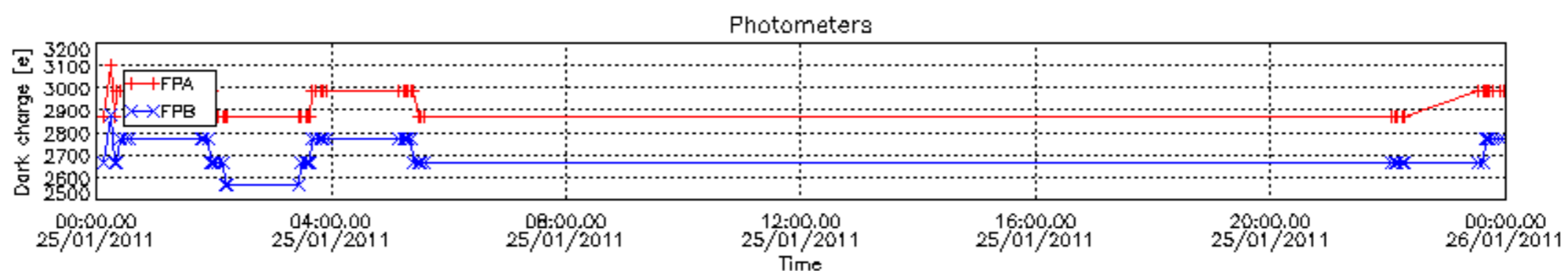
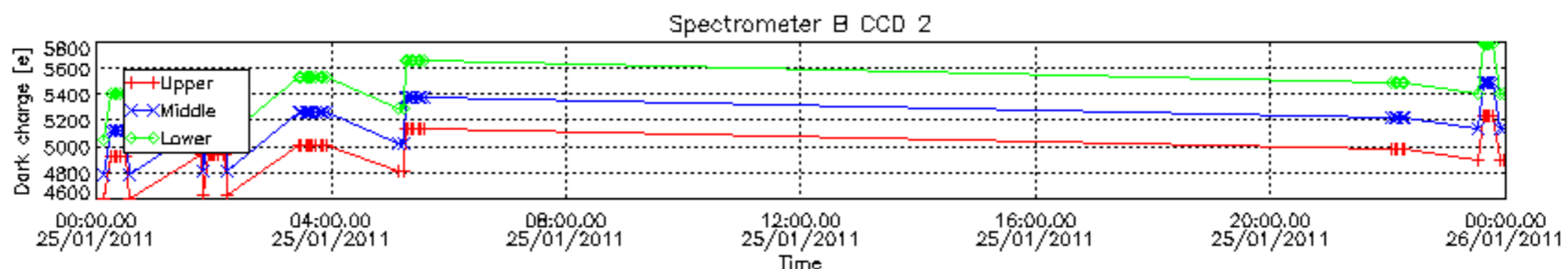
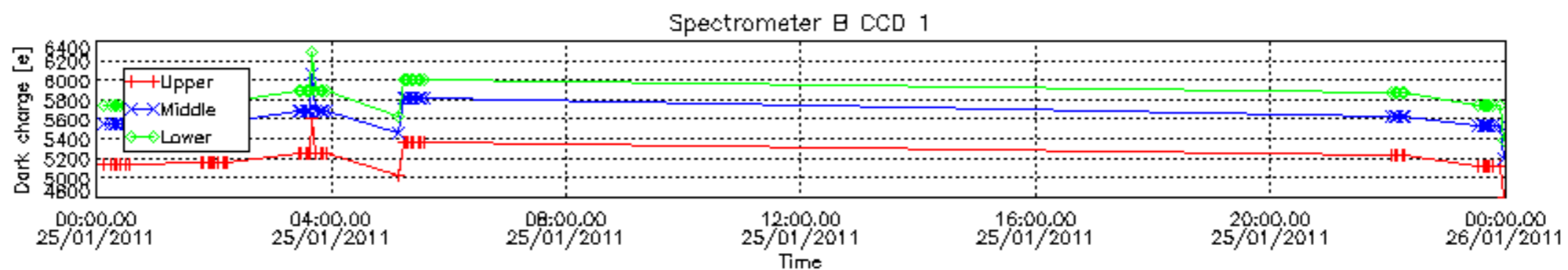
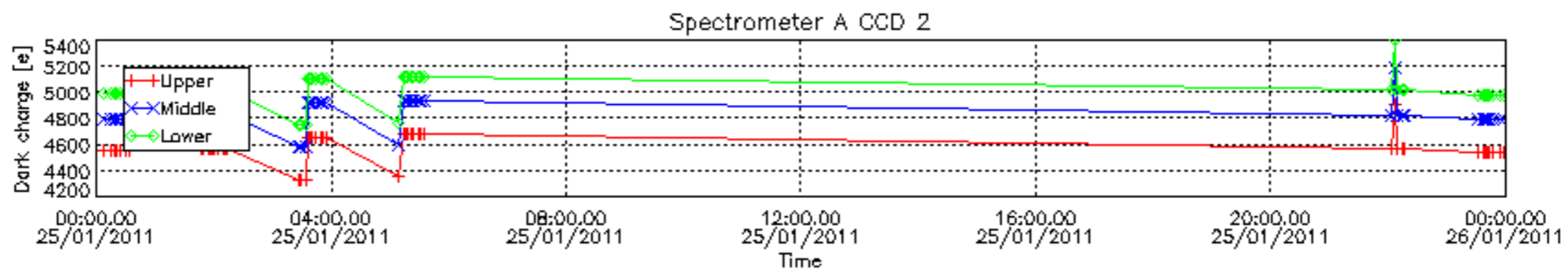
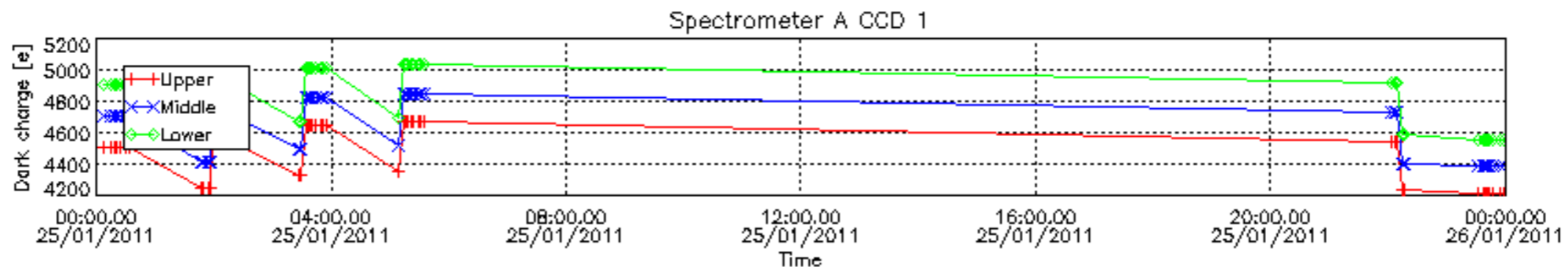
8. Auxiliary Data Files used for the production reported in section 2.4

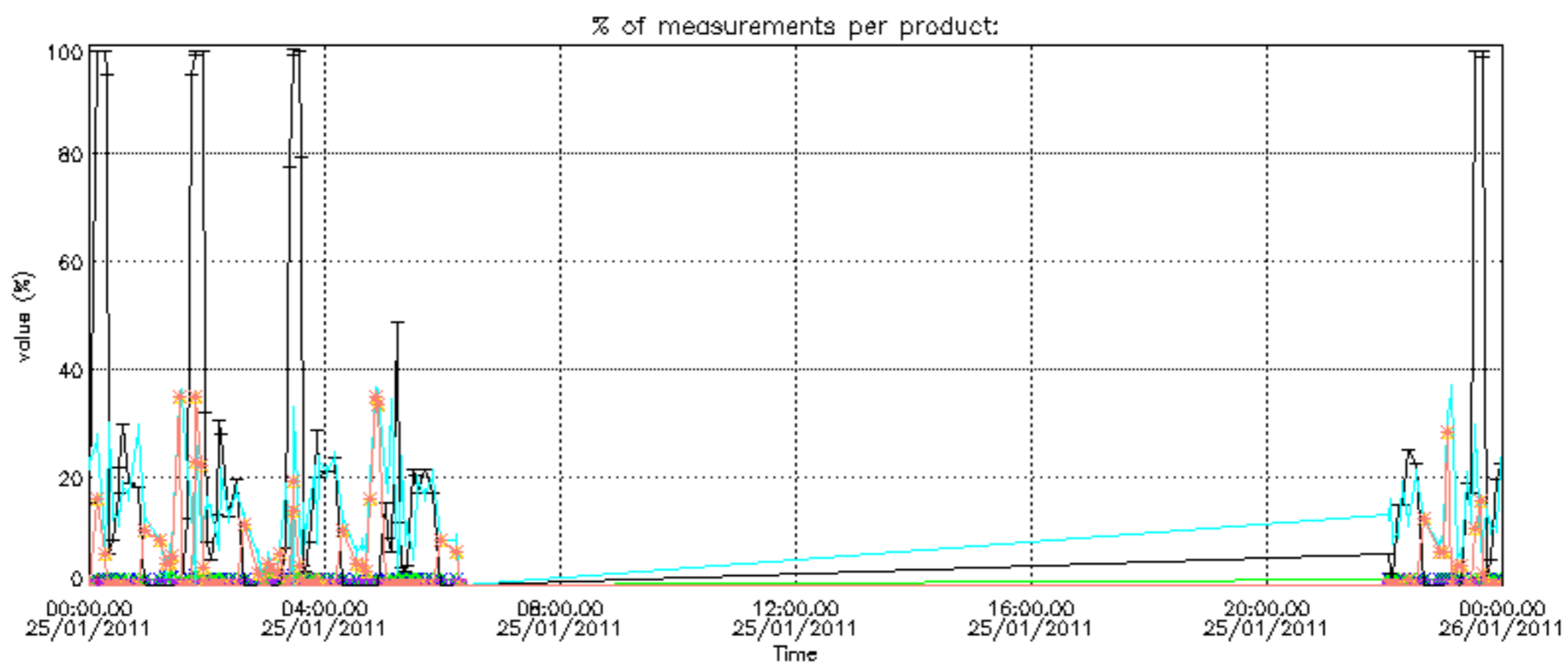
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	25-JAN-2011 00:00:30
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110118_083541_20110117_000000_20500101_000000	1	25-JAN-2011 00:00:30
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110125_110046_20110123_000000_20500101_000000	78	25-JAN-2011 22:03:28
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	25-JAN-2011 00:00:30
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-JAN-2011 00:00:30
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	25-JAN-2011 00:00:30
ECMWF_FILE	AUX_ECF_AXNECM20110124_052115_20110124_210000_20110125_090000	1	25-JAN-2011 00:00:30
ECMWF_FILE	AUX_ECF_AXNECM20110124_170528_20110125_030000_20110125_150000	58	25-JAN-2011 04:42:13
ECMWF_FILE	AUX_ECF_AXNECM20110125_052116_20110125_210000_20110126_090000	78	25-JAN-2011 22:03:28
OPTIONAL_ECMWF_FILE	MISSING	1	25-JAN-2011 00:00:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110124_222143_000057383098_00417_46552_2391.N1	1	25-JAN-2011 00:00:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110125_000240_000054193098_00418_46553_2392.N1	2	25-JAN-2011 00:03:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110125_013818_000041443098_00419_46554_2393.N1	21	25-JAN-2011 01:43:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110125_025241_000057383098_00420_46555_2394.N1	36	25-JAN-2011 02:57:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110125_043338_000057383098_00421_46556_2395.N1	58	25-JAN-2011 04:42:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110125_214423_000057383098_00431_46566_2397.N1	78	25-JAN-2011 22:03:28
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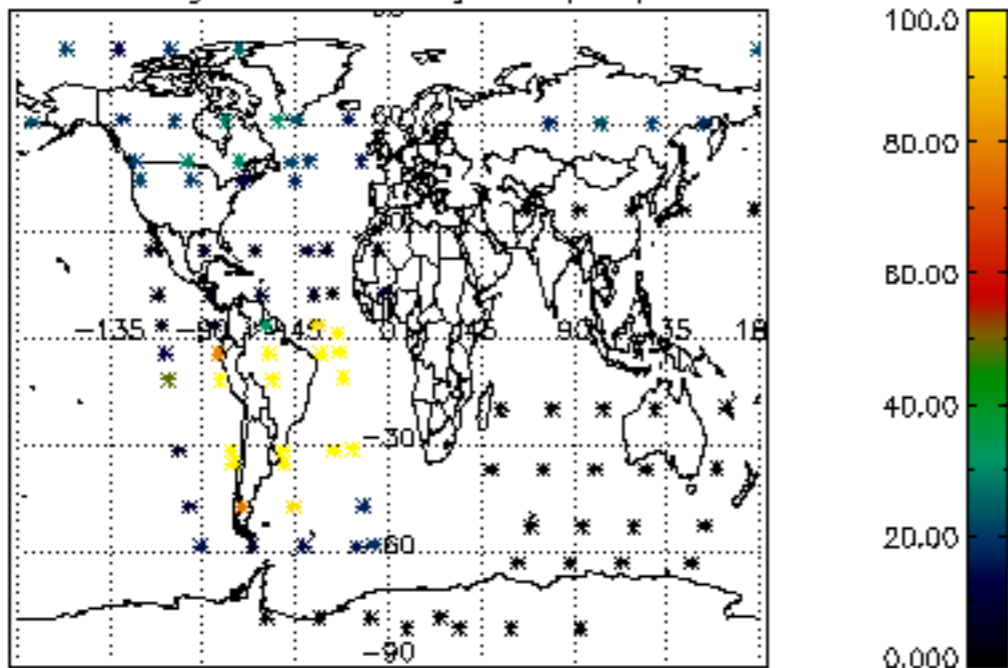




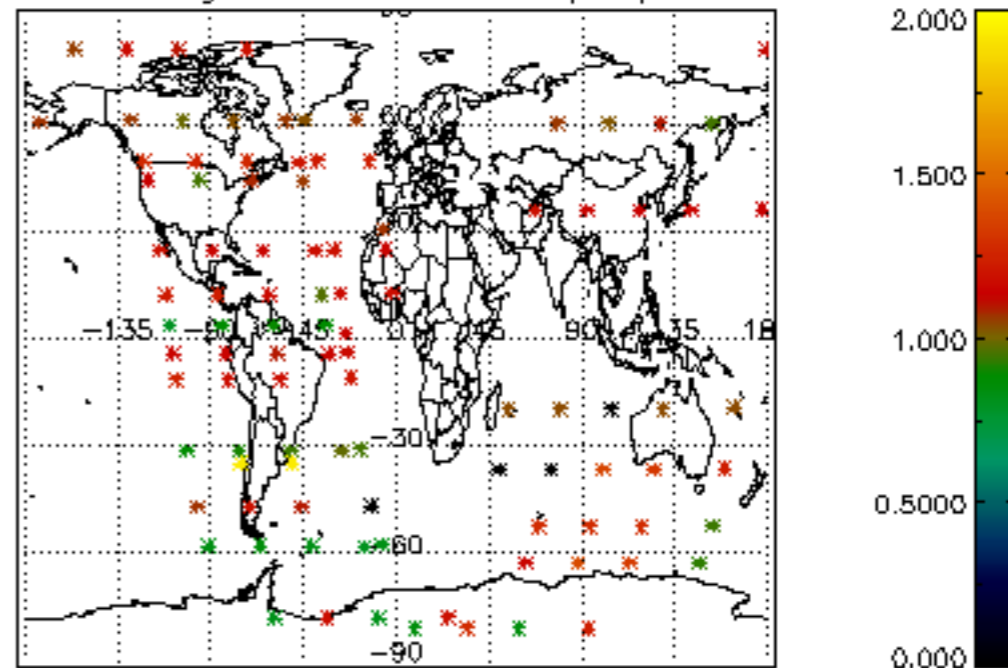




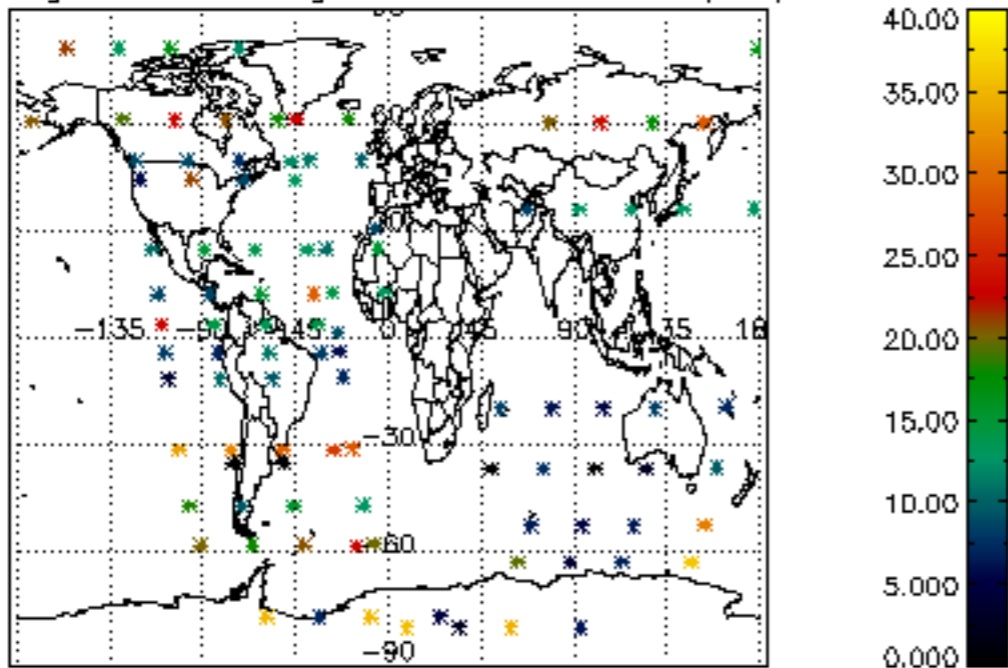
Percentage of cosmic ray hits per profile



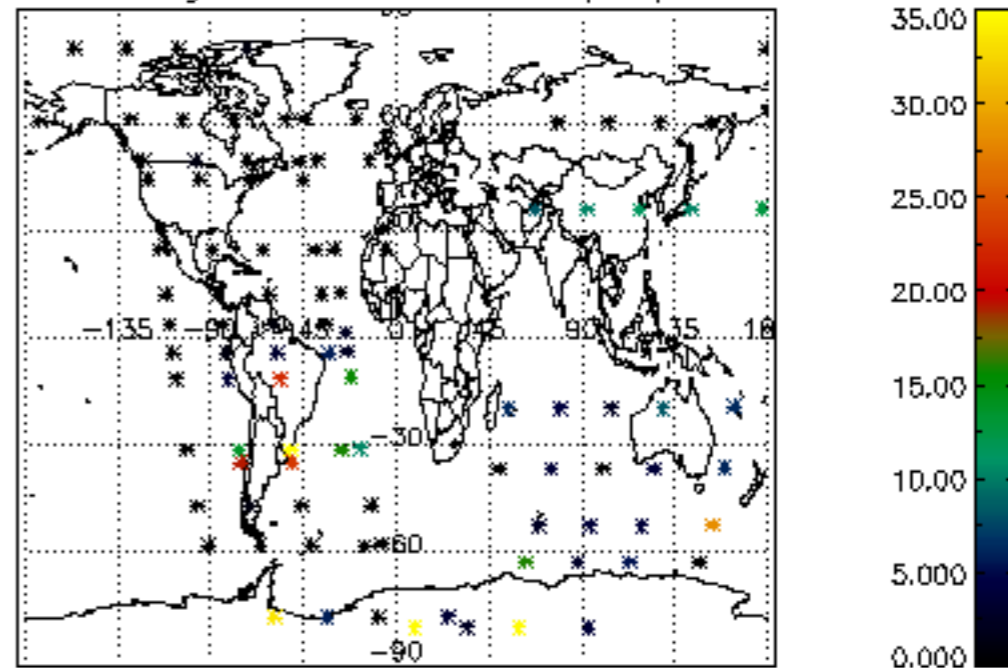
Percentage of datation errors per profile



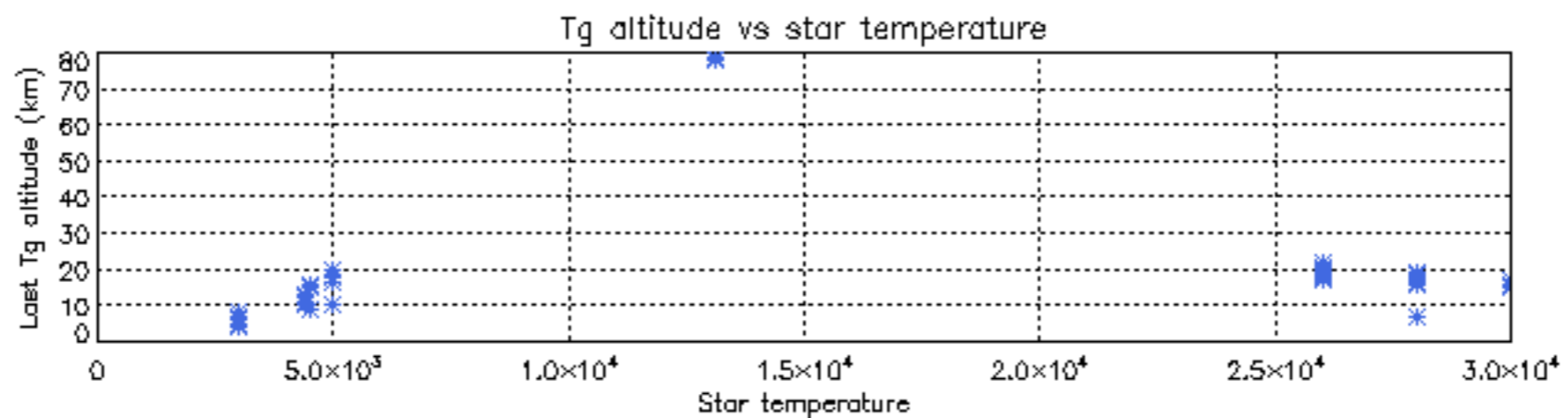
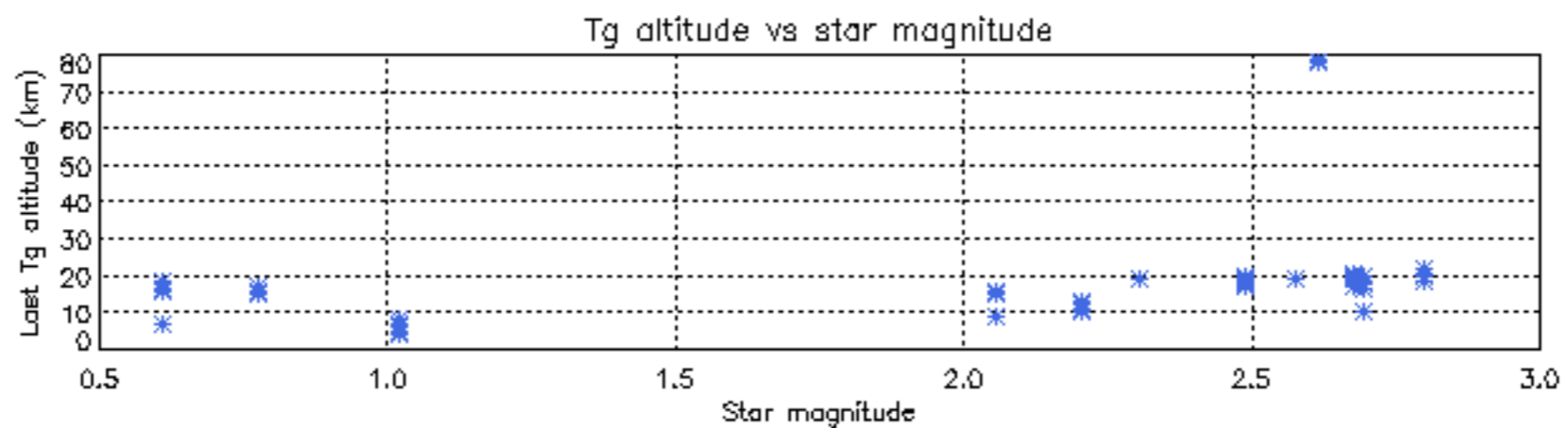
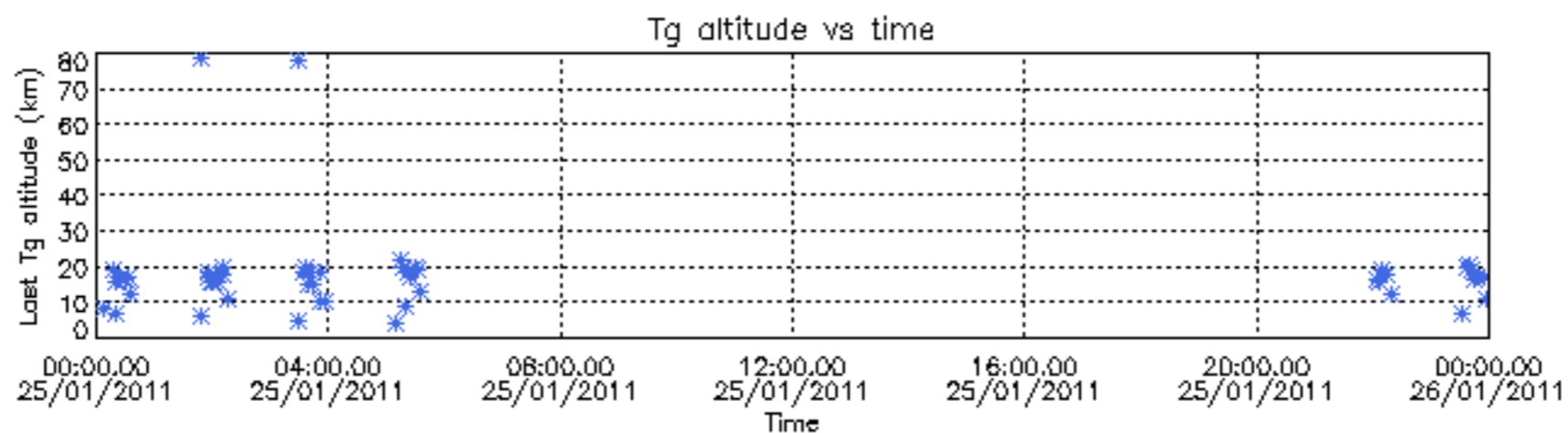
Percentage of star falling outside central band per profile



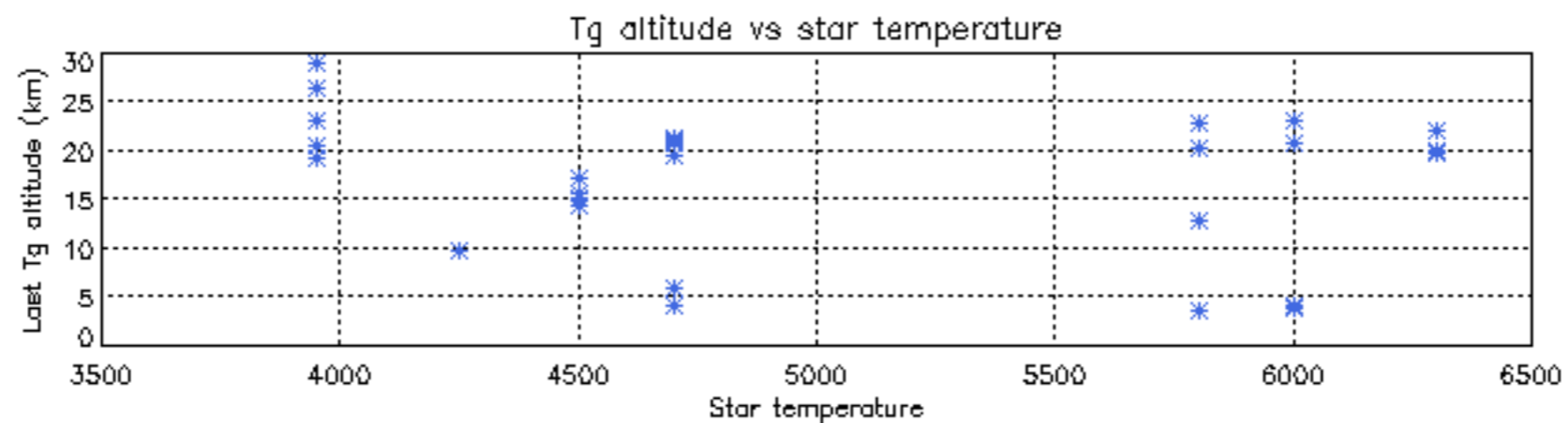
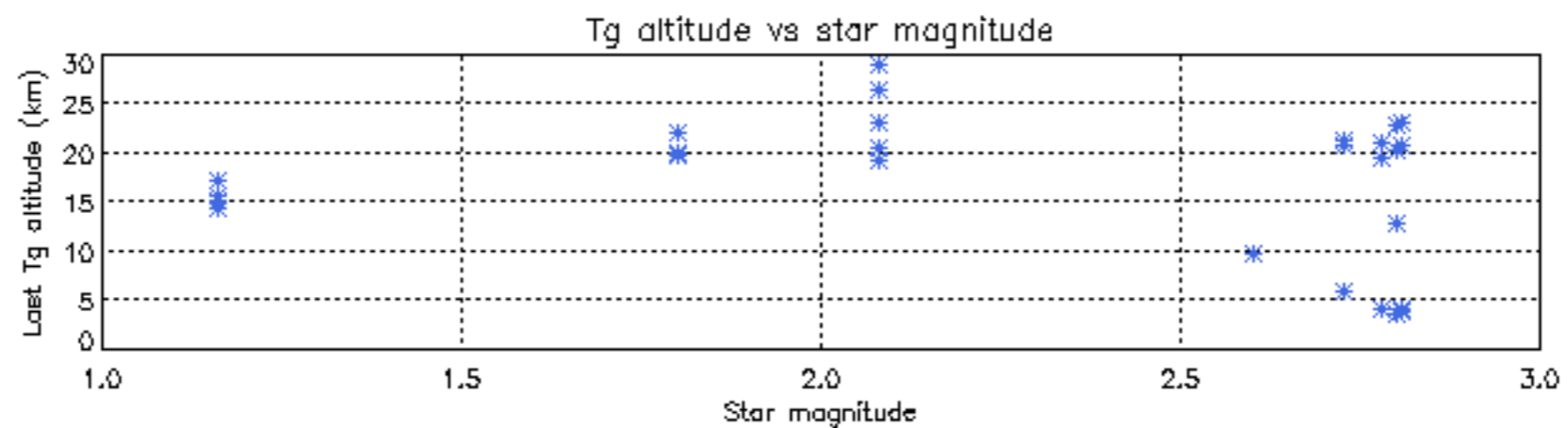
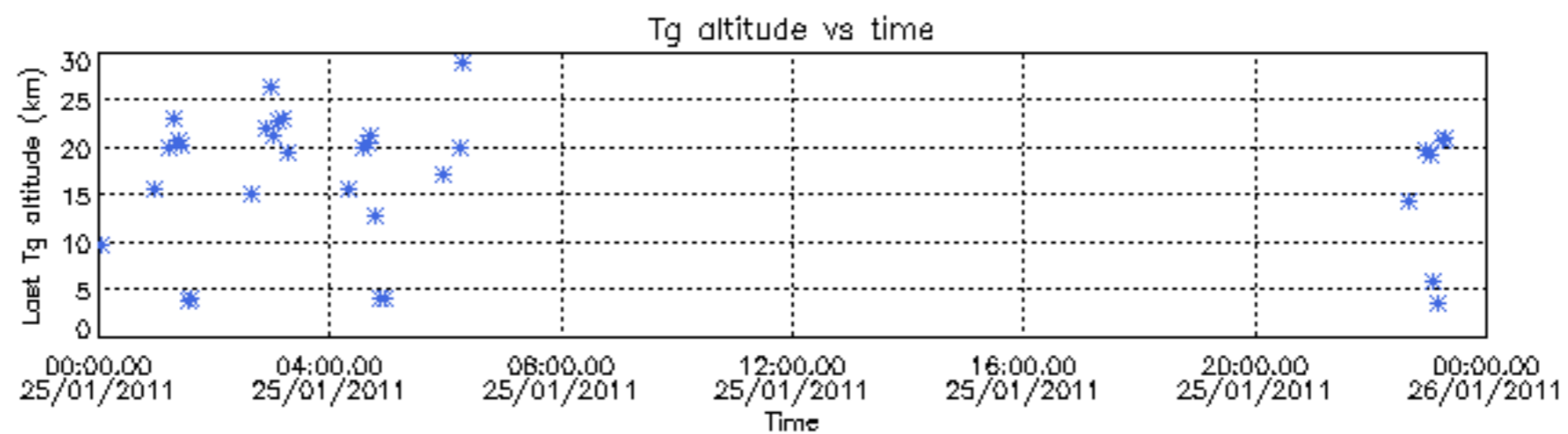
Percentage of saturation errors per profile

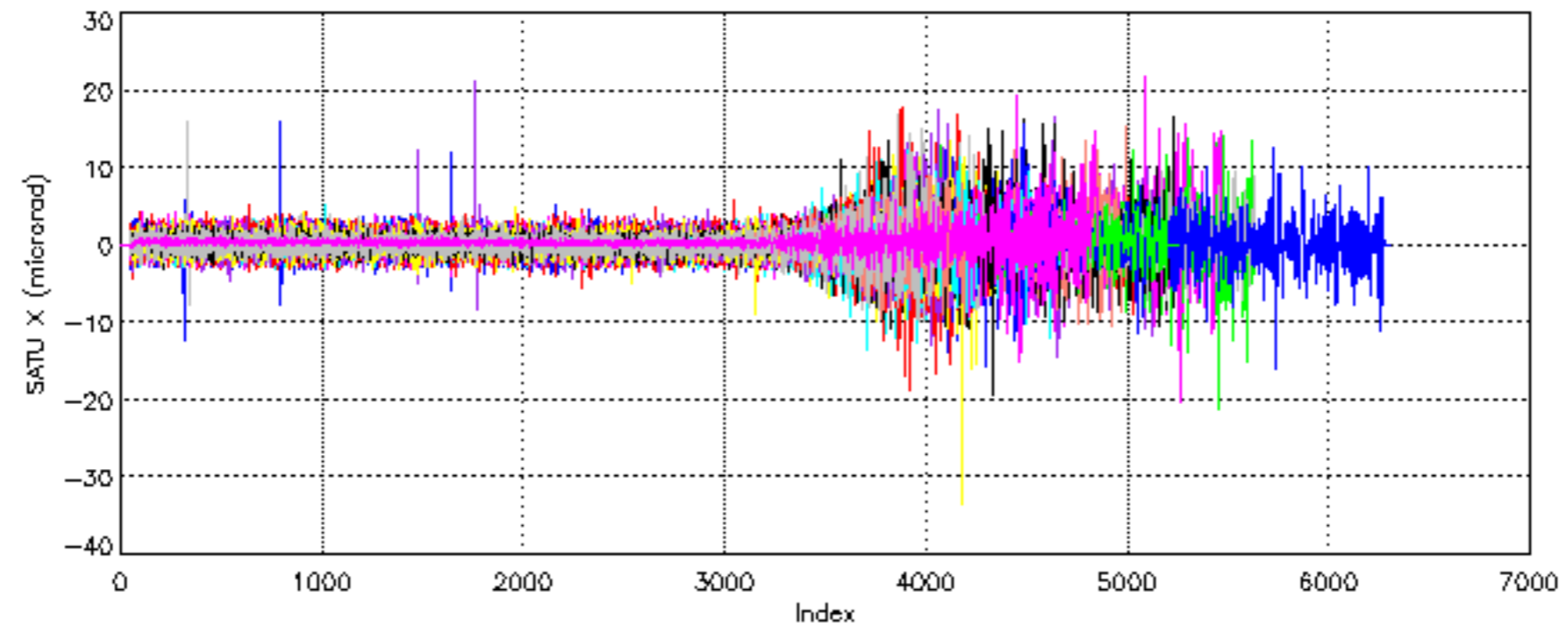


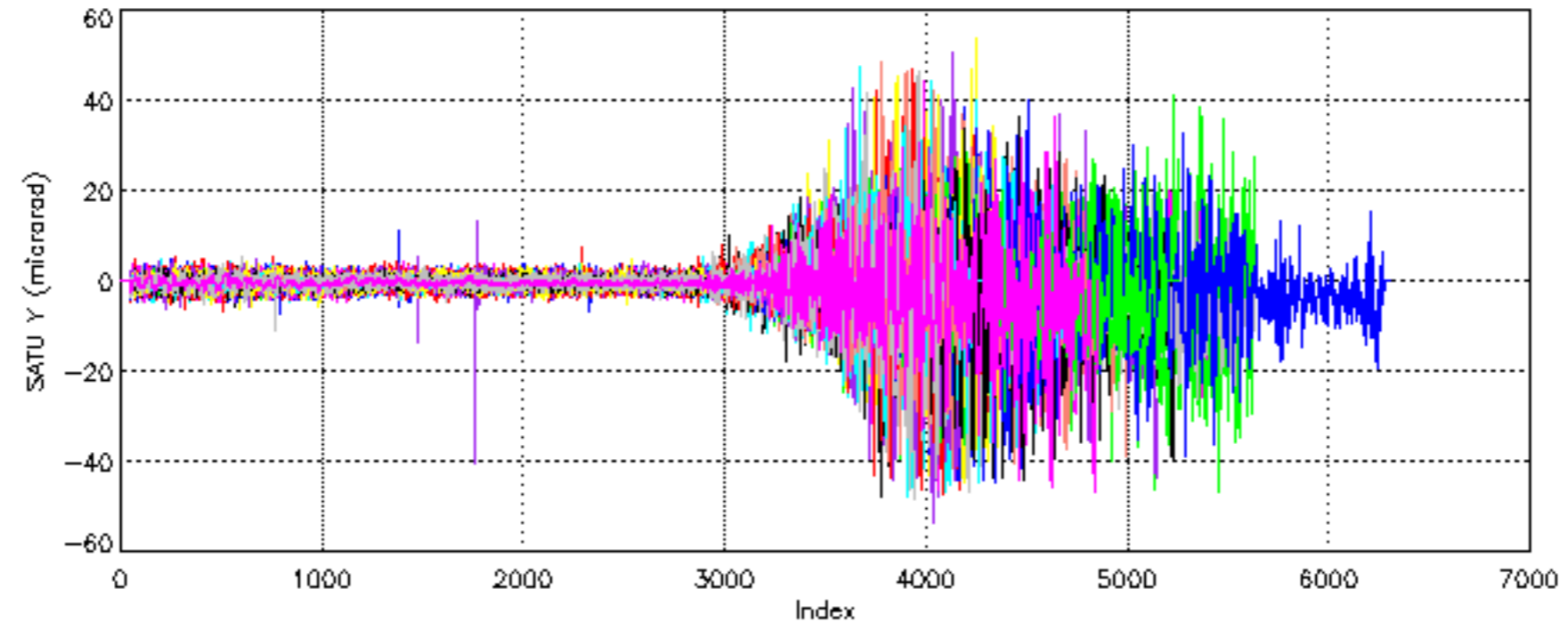
Tangent altitude at which the star is lost

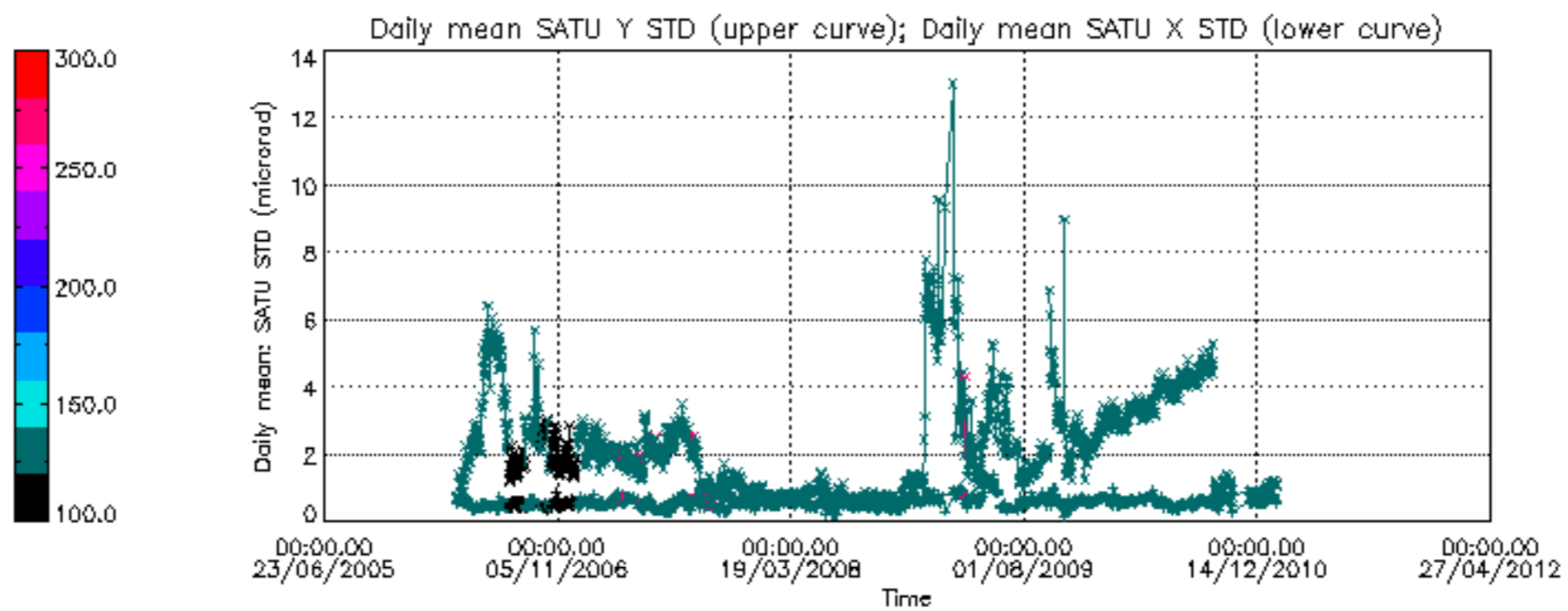


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20110101_012508_000094163098_00074_46209_2000.N1

1;	-684.4;	01-JAN-2011	01:25:08;	Dark	;	45.0;	122;	9Alp2Lib	;	2.75;	9700;	occ;	90;	0;	46209
2;	-272.2;	01-JAN-2011	01:32:00;	Dark	;	43.0;	54;	5The Cen	;	2.06;	4500;	occ;	86;	0;	46209
3;	-3.0;	01-JAN-2011	01:36:29;	Dark	;	40.5;	77;	Eps Cen	;	2.30;	28000;	occ;	81;	0;	46210
4;	102.2;	01-JAN-2011	01:38:14;	Dark	;	45.0;	64;	Gam Cen	;	2.20;	10600;	occ;	90;	0;	46210
5;	211.5;	01-JAN-2011	01:40:04;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	46210
6;	470.5;	01-JAN-2011	01:44:23;	Dark	;	48.0;	113;	Mu Vel	;	2.69;	5000;	occ;	96;	0;	46210
7;	623.9;	01-JAN-2011	01:46:56;	Dark	;	48.5;	71;	Iot Car	;	2.25;	7700;	occ;	97;	0;	46210
8;	738.0;	01-JAN-2011	01:48:50;	Dark	;	42.5;	46;	Del Vel	;	1.95;	10600;	occ;	85;	0;	46210
9;	908.3;	01-JAN-2011	01:51:41;	Dark	;	48.5;	34;	Gam2Vel	;	1.79;	23000;	occ;	97;	0;	46210
10;	1039.2;	01-JAN-2011	01:53:52;	Dark	;	49.5;	70;	Zet Pup	;	2.25;	39000;	occ;	99;	0;	46210
11;	1163.5;	01-JAN-2011	01:55:56;	Dark	;	49.0;	117;	Pi Pup	;	2.71;	3800;	occ;	98;	0;	46210
12;	1330.9;	01-JAN-2011	01:58:43;	Dark	;	47.0;	23;	21Eps CMa	;	1.50;	26000;	occ;	94;	0;	46210
13;	1423.0;	01-JAN-2011	02:00:15;	Dark	;	45.0;	179;	240mi2CMa	;	3.03;	24000;	occ;	90;	0;	46210
14;	1570.3;	01-JAN-2011	02:02:43;	Dark	;	53.0;	1;	9Alp CMa	;	-1.44;	11000;	occ;	106;	0;	46210
15;	1719.7;	01-JAN-2011	02:05:12;	Dark	;	42.5;	56;	53Kap Ori	;	2.07;	30000;	occ;	85;	0;	46210
16;	1869.3;	01-JAN-2011	02:07:42;	Dark	;	45.5;	30;	46Eps Ori	;	1.69;	30000;	occ;	91;	0;	46210
17;	2019.8;	01-JAN-2011	02:10:12;	Dark	;	55.0;	14;	58Alp Ori	;	0.87;	3000;	occ;	110;	0;	46210
18;	2214.1;	01-JAN-2011	02:13:26;	Dark	;	48.5;	44;	24Gam Gem	;	1.93;	11000;	occ;	97;	0;	46210
19;	2312.3;	01-JAN-2011	02:15:05;	Bright;	;	48.0;	151;	13Mu Gem	;	2.89;	3000;	occ;	96;	0;	46210
20;	2551.7;	01-JAN-2011	02:19:04;	Bright;	;	39.0;	107;	37The Aur	;	2.65;	11000;	occ;	78;	0;	46210
21;	2677.4;	01-JAN-2011	02:21:10;	Bright;	;	40.5;	6;	13Alp Aur	;	0.08;	3400;	occ;	81;	0;	46210
22;	3671.8;	01-JAN-2011	02:37:44;	Bright;	;	55.0;	60;	7Bet UMi	;	2.08;	3950;	occ;	110;	0;	46210
23;	3889.5;	01-JAN-2011	02:41:22;	Bright;	;	48.0;	32;	77Eps UMa	;	1.76;	11000;	occ;	96;	0;	46210
24;	4086.7;	01-JAN-2011	02:44:39;	Bright;	;	66.0;	39;	85Eta UMa	;	1.85;	24000;	occ;	132;	0;	46210
25;	4331.1;	01-JAN-2011	02:48:43;	Bright;	;	40.0;	180;	27Gam Boo	;	3.04;	8000;	occ;	80;	0;	46210
26;	4552.2;	01-JAN-2011	02:52:24;	Bright;	;	62.0;	83;		;	2.38;	11000;	occ;	124;	0;	46210
27;	4747.8;	01-JAN-2011	02:55:40;	Bright;	;	54.0;	3;	16Alp Boo	;	-0.05;	4250;	occ;	108;	0;	46210
28;	4868.3;	01-JAN-2011	02:57:41;	Bright;	;	54.0;	102;	24Alp Ser	;	2.60;	4250;	occ;	108;	0;	46210
29;	5171.3;	01-JAN-2011	03:02:44;	Bright;	;	56.0;	104;	27Bet Lib	;	2.61;	13100;	occ;	112;	0;	46210
30;	5330.2;	01-JAN-2011	03:05:23;	Dark	;	44.5;	122;	9Alp2Lib	;	2.75;	9700;	occ;	89;	0;	46210
31;	5742.5;	01-JAN-2011	03:12:15;	Dark	;	49.0;	54;	5The Cen	;	2.06;	4500;	occ;	98;	0;	46210
32;	5907.7;	01-JAN-2011	03:15:00;	Dark	;	40.0;	95;	Zet Cen	;	2.55;	26000;	occ;	80;	0;	46210
33;	6011.7;	01-JAN-2011	03:16:44;	Dark	;	39.5;	77;	Eps Cen	;	2.30;	28000;	occ;	79;	0;	46211
34;	6117.0;	01-JAN-2011	03:18:29;	Dark	;	45.0;	64;	Gam Cen	;	2.20;	10600;	occ;	90;	0;	46211
35;	6226.4;	01-JAN-2011	03:20:19;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	46211
36;	6485.7;	01-JAN-2011	03:24:38;	Dark	;	49.0;	113;	Mu Vel	;	2.69;	5000;	occ;	98;	0;	46211
37;	6638.6;	01-JAN-2011	03:27:11;	Dark	;	42.5;	71;	Iot Car	;	2.25;	7700;	occ;	85;	0;	46211
38;	6752.6;	01-JAN-2011	03:29:05;	Dark	;	45.0;	46;	Del Vel	;	1.95;	10600;	occ;	90;	0;	46211
39;	6923.2;	01-JAN-2011	03:31:56;	Dark	;	46.5;	34;	Gam2Vel	;	1.79;	23000;	occ;	93;	0;	46211
40;	7054.0;	01-JAN-2011	03:34:06;	Dark	;	45.5;	70;	Zet Pup	;	2.25;	39000;	occ;	91;	0;	46211
41;	7178.0;	01-JAN-2011	03:36:10;	Dark	;	47.0;	117;	Pi Pup	;	2.71;	3800;	occ;	94;	0;	46211
42;	7345.3;	01-JAN-2011	03:38:58;	Dark	;	46.0;	23;	21Eps CMa	;	1.50;	26000;	occ;	92;	0;	46211
43;	7437.3;	01-JAN-2011	03:40:30;	Dark	;	46.0;	179;	240mi2CMa	;	3.03;	24000;	occ;	92;	0;	46211
44;	7584.6;	01-JAN-2011	03:42:57;	Dark	;	53.0;	1;	9Alp CMa	;	-1.44;	11000;	occ;	106;	0;	46211
45;	7733.8;	01-JAN-2011	03:45:26;	Dark	;	44.0;	56;	53Kap Ori	;	2.07;	30000;	occ;	88;	0;	46211
46;	7883.6;	01-JAN-2011	03:47:56;	Dark	;	44.5;	30;	46Eps Ori	;	1.69;	30000;	occ;	89;	0;	46211
47;	8034.0;	01-JAN-2011	03:50:26;	Dark	;	55.0;	14;	58Alp Ori	;	0.87;	3000;	occ;	110;	0;	46211
48;	8228.0;	01-JAN-2011	03:53:40;	Dark	;	44.5;	44;	24Gam Gem	;	1.93;	11000;	occ;	89;	0;	46211
49;	8326.2;	01-JAN-2011	03:55:18;	Bright;	;	43.5;	151;	13Mu Gem	;	2.89;	3000;	occ;	87;	0;	46211
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51;	8691.4;	01-JAN-2011	04:01:24;	Bright;	;	41.0;	6;	13Alp Aur	;	0.08;	3400;	occ;	82;	0;	46211

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1;	-2342.4;	01-JAN-2011	04:17:58;	Bright;	;	39.0;	60;	7Bet UMi	;	2.08;	3950;	occ;	78;	0;	46211
2;	-2124.9;	01-JAN-2011	04:21:36;	Bright;	;	47.5;	32;	77Eps UMa	;	1.76;	11000;	occ;	95;	0;	46211
3;	-1927.5;	01-JAN-2011	04:24:53;	Bright;	;	45.0;	39;	85Eta UMa	;	1.85;	24000;	occ;	90;	0;	46211
4;	-1683.0;	01-JAN-2011	04:28:57;	Bright;	;	42.5;	180;	27Gam Boo	;	3.04;	8000;	occ;	85;	0;	46211
5;	-1461.7;	01-JAN-2011	04:32:39;	Bright;	;	44.0;	83;		;	2.38;	11000;	occ;	88;	0;	46211
6;	-1265.7;	01-JAN-2011	04:35:55;	Bright;	;	54.0;	3;	16Alp Boo	;	-0.05;	4250;	occ;	108;	0;	46211
7;	-1145.5;	01-JAN-2011	04:37:55;	Bright;	;	54.0;	102;	24Alp Ser	;	2.60;	4250;	occ;	108;	0;	46211
8;	-842.3;	01-JAN-2011	04:42:58;	Bright;	;	56.0;	104;	27Bet Lib	;	2.61;	13100;	occ;	112;	0;	46211
9;	-683.2;	01-JAN-2011	04:45:37;	Dark	;	45.5;	122;	9Alp2Lib	;	2.75;	9700;	occ;	91;	0;	46211
10;	-270.8;	01-JAN-2011	04:52:30;	Dark	;	47.0;	54;	5The Cen	;	2.06;	4500;	occ;	94;	0;	46211
11;	-105.9;	01-JAN-2011	04:55:15;	Dark	;	41.5;	95;	Zet Cen	;	2.55;	26000;	occ;	83;	0;	46211
12;	-1.7;	01-JAN-2011	04:56:59;	Dark	;	40.0;	77;	Eps Cen	;	2.30;	28000;	occ;	80;	0;	46212
13;	103.9;	01-JAN-2011	04:58:44;	Dark	;	44.0;	64;	Gam Cen	;	2.20;	10600;	occ;	88;	0;	46212
14;	213.3;	01-JAN-2011	05:00:34;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	46212
15;	472.3;	01-JAN-2011	05:04:53;	Dark	;	48.5;	113;	Mu Vel	;	2.69;	5000;	occ;	97;	0;	46212

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16; 625.1; 01-JAN-2011 05:07:26; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;46212
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19; 1040.6; 01-JAN-2011 05:14:21; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;46212
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24; 1720.1; 01-JAN-2011 05:25:41; Dark ; 43.5; 56; 53Kap Ori ; 2.07; 30000;occ; 87; 0;46212
25; 1869.6; 01-JAN-2011 05:28:10; Dark ; 45.0; 30; 46Eps Ori ; 1.69; 30000;occ; 90; 0;46212
26; 2019.7; 01-JAN-2011 05:30:40; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;46212
27; 2213.8; 01-JAN-2011 05:33:54; Dark ; 52.5; 44; 24Gam Gem ; 1.93; 11000;occ; 105; 0;46212
28; 2312.0; 01-JAN-2011 05:35:32; Bright; 60.0; 151; 13Mu Gem ; 2.89; 3000;occ; 120; 0;46212
29; 2551.3; 01-JAN-2011 05:39:32; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;46212
30; 2677.3; 01-JAN-2011 05:41:38; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;46212
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 2; 1045.1; 01-JAN-2011 20:16:32; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;46221
 3; 1167.5; 01-JAN-2011 20:18:34; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;46221
 4; 1333.8; 01-JAN-2011 20:21:21; Dark ; 48.0; 23; 21Eps CMA ; 1.50; 26000;occ; 96; 0;46221
 5; 1425.5; 01-JAN-2011 20:22:52; Dark ; 46.0; 179; 240mi2CMA ; 3.03; 24000;occ; 92; 0;46221
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 7; 1720.8; 01-JAN-2011 20:27:48; Dark ; 44.0; 56; 53Kap Ori ; 2.07; 30000;occ; 88; 0;46221
 8; 1856.3; 01-JAN-2011 20:30:03; Dark ; 44.5; 33; 50Zet Ori ; 1.77; 30000;occ; 89; 0;46221
 9; 2019.3; 01-JAN-2011 20:32:46; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;46221
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11; 2309.2; 01-JAN-2011 20:37:36; Bright; 45.0; 151; 13Mu Gem ; 2.89; 3000;occ; 90; 0;46221
12; 2549.2; 01-JAN-2011 20:41:36; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;46221
13; 2676.5; 01-JAN-2011 20:43:43; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;46221
14; 3670.6; 01-JAN-2011 21:00:17; Bright; 55.0; 60; 7Bet UMi ; 2.08; 3950;occ; 110; 0;46221
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19; 4752.6; 01-JAN-2011 21:18:19; Bright; 54.5; 3; 16Alp Boo ; -0.05; 4250;occ; 109; 0;46221
20; 4871.7; 01-JAN-2011 21:20:18; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;46221
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 21; 6245.9; 02-JAN-2011 14:25:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46232
 22; 6504.0; 02-JAN-2011 14:29:51; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46232
 23; 6649.7; 02-JAN-2011 14:32:16; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;46232
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 25; 6933.7; 02-JAN-2011 14:37:00; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;46232
 26; 7064.5; 02-JAN-2011 14:39:11; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;46232
 27; 7185.5; 02-JAN-2011 14:41:12; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;46232
 28; 7350.9; 02-JAN-2011 14:43:58; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;46232

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 11; 4082.0; 02-JAN-2011 15:29:43; Bright; 45.0; 39; 85Eta UMa ; 1.85; 24000;occ; 90; 0;46232
 12; 4331.7; 02-JAN-2011 15:33:53; Bright; 41.0; 180; 27Gam Boo ; 3.04; 8000;occ; 82; 0;46232
 13; 4556.9; 02-JAN-2011 15:37:38; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;46232
 14; 4757.7; 02-JAN-2011 15:40:58; Bright; 55.5; 3; 16Alp Boo ; -0.05; 4250;occ; 111; 0;46232
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 16; 5181.6; 02-JAN-2011 15:48:02; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;46232
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 22; 6246.9; 02-JAN-2011 16:05:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46233
 23; 6505.0; 02-JAN-2011 16:10:06; Dark ; 49.0; 113; Mu Vel ; 2.69; 5000;occ; 98; 0;46233
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 25; 6764.5; 02-JAN-2011 16:14:25; Dark ; 48.5; 46; Del Vel ; 1.95; 10600;occ; 97; 0;46233
 26; 6934.3; 02-JAN-2011 16:17:15; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;46233
 27; 7065.1; 02-JAN-2011 16:19:26; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;46233
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 3; -89.6; 03-JAN-2011 00:21:35; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;46237
 4; 13.2; 03-JAN-2011 00:23:18; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0;46238
 5; 125.0; 03-JAN-2011 00:25:10; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;46238
 6; 237.5; 03-JAN-2011 00:27:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46238
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 8; 638.7; 03-JAN-2011 00:33:44; Dark ; 45.0; 71; Iot Car ; 2.25; 7700;occ; 90; 0;46238
 9; 752.9; 03-JAN-2011 00:35:38; Dark ; 45.0; 46; Del Vel ; 1.95; 10600;occ; 90; 0;46238
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 14; 1429.0; 03-JAN-2011 00:46:54; Dark ; 38.0; 179; 240mi2CMA ; 3.03; 24000;occ; 76; 0;46238
 15; 1573.7; 03-JAN-2011 00:49:19; Dark ; 54.0; 1; 9Alp CMA ; -1.44; 11000;occ; 108; 0;46238
 16; 2018.5; 03-JAN-2011 00:56:43; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;46238
 17; 2205.4; 03-JAN-2011 00:59:50; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;46238
 18; 2304.3; 03-JAN-2011 01:01:29; Bright; 50.5; 151; 13Mu Gem ; 2.89; 3000;occ; 101; 0;46238
 19; 2545.0; 03-JAN-2011 01:05:30; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;46238
 20; 2675.3; 03-JAN-2011 01:07:40; Bright; 43.5; 6; 13Alp Aur ; 0.08; 3400;occ; 87; 0;46238
 21; 3669.0; 03-JAN-2011 01:24:14; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;46238
 22; 3877.4; 03-JAN-2011 01:27:42; Bright; 49.0; 32; 77Eps UMa ; 1.76; 11000;occ; 98; 0;46238
 23; 4080.5; 03-JAN-2011 01:31:05; Bright; 44.5; 39; 85Eta UMa ; 1.85; 24000;occ; 89; 0;46238
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 25; 4558.0; 03-JAN-2011 01:39:03; Bright; 64.0; 83; ; 2.38; 11000;occ; 128; 0;46238
 26; 4760.2; 03-JAN-2011 01:42:25; Bright; 56.5; 3; 16Alp Boo ; -0.05; 4250;occ; 113; 0;46238
 27; 4877.0; 03-JAN-2011 01:44:22; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;46238
 28; 5184.4; 03-JAN-2011 01:49:29; Bright; 32.5; 104; 27Bet Lib ; 2.61; 13100;occ; 65; 0;46238

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 4; -88.9; 03-JAN-2011 02:01:50; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;46238
 5; 13.8; 03-JAN-2011 02:03:33; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;46239
 6; 125.8; 03-JAN-2011 02:05:25; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;46239
 7; 238.4; 03-JAN-2011 02:07:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46239
 8; 496.2; 03-JAN-2011 02:11:35; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;46239
 9; 639.3; 03-JAN-2011 02:13:58; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;46239
 10; 753.4; 03-JAN-2011 02:15:52; Dark ; 46.0; 46; Del Vel ; 1.95; 10600;occ; 92; 0;46239
 11; 923.1; 03-JAN-2011 02:18:42; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;46239
 12; 1053.9; 03-JAN-2011 02:20:53; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;46239
 13; 1173.8; 03-JAN-2011 02:22:53; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;46239
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 15; 1429.5; 03-JAN-2011 02:27:08; Dark ; 43.5; 179; 240mi2CMA ; 3.03; 24000;occ; 87; 0;46239
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 17; 2018.5; 03-JAN-2011 02:36:57; Dark ; 49.5; 14; 58Alp Ori ; 0.87; 3000;occ; 99; 0;46239
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 19; 2304.1; 03-JAN-2011 02:41:43; Bright; 46.5; 151; 13Mu Gem ; 2.89; 3000;occ; 93; 0;46239
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 21; 2675.2; 03-JAN-2011 02:47:54; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;46239

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 2; -2137.0; 03-JAN-2011 03:07:56; Bright; 49.5; 32; 77Eps UMa ; 1.76; 11000;occ; 99; 0;46239
 3; -1933.7; 03-JAN-2011 03:11:19; Bright; 61.0; 39; 85Eta UMa ; 1.85; 24000;occ; 122; 0;46239
 4; -1682.3; 03-JAN-2011 03:15:31; Bright; 62.0; 180; 27Gam Boo ; 3.04; 8000;occ; 124; 0;46239
 5; -1455.8; 03-JAN-2011 03:19:17; Bright; 64.0; 83; ; 2.38; 11000;occ; 128; 0;46239
 6; -1253.3; 03-JAN-2011 03:22:40; Bright; 56.5; 3; 16Alp Boo ; -0.05; 4250;occ; 113; 0;46239
 7; -1136.8; 03-JAN-2011 03:24:36; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;46239
 8; -829.1; 03-JAN-2011 03:29:44; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;46239
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 11; -88.0; 03-JAN-2011 03:42:05; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;46239
 12; 14.6; 03-JAN-2011 03:43:48; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;46240
 13; 126.9; 03-JAN-2011 03:45:40; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;46240
 14; 239.3; 03-JAN-2011 03:47:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46240
 15; 497.1; 03-JAN-2011 03:51:50; Dark ; 48.0; 113; Mu Vel ; 2.69; 5000;occ; 96; 0;46240
 16; 639.8; 03-JAN-2011 03:54:13; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;46240

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 18; 923.7; 03-JAN-2011 03:58:57; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;46240
 19; 1054.3; 03-JAN-2011 04:01:07; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;46240
 20; 1174.3; 03-JAN-2011 04:03:07; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;46240
 21; 1339.1; 03-JAN-2011 04:05:52; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;46240
 22; 1429.7; 03-JAN-2011 04:07:23; Dark ; 44.0; 179; 240mi2CMa ; 3.03; 24000;occ; 88; 0;46240
 23; 1574.2; 03-JAN-2011 04:09:47; Dark ; 49.5; 1; 9Alp CMa ; -1.44; 11000;occ; 99; 0;46240
 24; 2018.9; 03-JAN-2011 04:17:12; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;46240
 25; 2205.2; 03-JAN-2011 04:20:18; Dark ; 44.0; 44; 24Gam Gem ; 1.93; 11000;occ; 88; 0;46240
 26; 2303.9; 03-JAN-2011 04:21:57; Bright; 46.5; 151; 13Mu Gem ; 2.89; 3000;occ; 93; 0;46240
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 28; 2675.5; 03-JAN-2011 04:28:08; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;46240
 29; 3668.8; 03-JAN-2011 04:44:42; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;46240

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 4; -1682.2; 03-JAN-2011 04:55:45; Bright; 64.0; 180; 27Gam Boo ; 3.04; 8000;occ; 128; 0;46240
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 19; 1054.7; 03-JAN-2011 05:41:22; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;46241
 20; 1174.7; 03-JAN-2011 05:43:22; Dark ; 50.0; 117; Pi Pup ; 2.71; 3800;occ; 100; 0;46241
 21; 1339.1; 03-JAN-2011 05:46:06; Dark ; 47.5; 23; 21Eps CMa ; 1.50; 26000;occ; 95; 0;46241
 22; 1429.9; 03-JAN-2011 05:47:37; Dark ; 45.0; 179; 240mi2CMa ; 3.03; 24000;occ; 90; 0;46241
 23; 1574.4; 03-JAN-2011 05:50:01; Dark ; 55.5; 1; 9Alp CMa ; -1.44; 11000;occ; 111; 0;46241
 24; 2018.7; 03-JAN-2011 05:57:26; Dark ; 49.0; 14; 58Alp Ori ; 0.87; 3000;occ; 98; 0;46241
 25; 2204.9; 03-JAN-2011 06:00:32; Dark ; 51.0; 44; 24Gam Gem ; 1.93; 11000;occ; 102; 0;46241
 26; 2303.9; 03-JAN-2011 06:02:11; Bright; 54.0; 151; 13Mu Gem ; 2.89; 3000;occ; 108; 0;46241
 27; 2544.6; 03-JAN-2011 06:06:12; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;46241
 28; 2677.0; 03-JAN-2011 06:08:24; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;46241
 29; 3668.7; 03-JAN-2011 06:24:56; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;46241

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 7; 2018.4; 03-JAN-2011 20:59:32; Dark ; 49.0; 14; 58Alp Ori ; 0.87; 3000;occ; 98; 0;46250
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24;	4332.3;	08-JAN-2011	01:52:06;	Bright;		51.5;	180;	27Gam Boo	;	3.04;	8000;occ;	103;	0;	46310
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9;	676.0;	08-JAN-2011	02:31:24;	Dark	;	40.0;	71;	Iot Car	;	2.25;	7700;occ;	80;	0;	46311
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16;	1583.4;	08-JAN-2011	02:46:32;	Dark	;	47.5;	1;	9Alp CMA	;	-1.44;	11000;occ;	95;	0;	46311
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8;	-615.4;	08-JAN-2011	03:50:07;	Dark	;	46.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	92;	0;	46311
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4; 2279.3; 14-JAN-2011 10:59:23; Bright; 48.5; 151; 13Mu Gem ; 2.89; 3000;occ; 97; 0;46402
5; 2458.7; 14-JAN-2011 11:02:22; Bright; 47.5; 17; 78Bet Gem ; 1.16; 4500;occ; 95; 0;46402
6; 3646.0; 14-JAN-2011 11:22:10; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;46402
7; 3902.8; 14-JAN-2011 11:26:26; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;46402
8; 4430.1; 14-JAN-2011 11:35:14; Bright; 54.0; 133; 40Zet Her ; 2.81; 6000;occ; 108; 0;46402
9; 4561.9; 14-JAN-2011 11:37:25; Bright; 63.0; 67; 5Alp CrB ; 2.22; 11000;occ; 126; 0;46402
10; 4940.9; 14-JAN-2011 11:43:45; Bright; 61.0; 102; 24Alp Ser ; 2.60; 4250;occ; 122; 0;46402
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13; 5402.9; 14-JAN-2011 11:51:26; Dark ; 46.5; 80; 7Del Sco ; 2.32; 30000;occ; 93; 0;46402
14; 5833.2; 14-JAN-2011 11:58:37; Dark ; 40.5; 109; Bet Lup ; 2.68; 26000;occ; 81; 0;46402
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16; 6043.2; 14-JAN-2011 12:02:07; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;46403
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23; 7365.0; 14-JAN-2011 12:24:09; Dark ; 42.5; 88; 31Eta CMA ; 2.45; 20000;occ; 85; 0;46403
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6; 2458.3; 14-JAN-2011 12:42:36; Bright; 48.0; 17; 78Bet Gem ; 1.16; 4500;occ; 96; 0;46403
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 12; 5069.7; 14-JAN-2011 13:26:07; Bright; 56.0; 120; 1Del Oph ; 2.73; 3200;occ; 112; 0;46403
 13; 5285.8; 14-JAN-2011 13:29:43; Dark ; 51.5; 104; 27Bet Lib ; 2.61; 13100;occ; 103; 0;46403
 14; 5403.4; 14-JAN-2011 13:31:41; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;46403
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 5; 2279.0; 14-JAN-2011 14:19:51; Bright; 42.0; 151; 13Mu Gem ; 2.89; 3000;occ; 84; 0;46404
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 23; 7137.3; 14-JAN-2011 15:40:49; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;46405
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6; 2176.1; 14-JAN-2011 17:38:36; Dark ; 55.0; 44; 24Gam Gem ; 1.93; 11000;occ; 110; 0;46406
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9; 4995.2; 21-JAN-2011 10:48:01; Bright; 47.5; 102; 24Alp Ser ; 2.60; 4250;occ; 95; 0;46502
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