

GOMOS Daily Report 18-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	21JAN2011 05:16:19
Data source version	GOMOS/5.01
Start time of products	18JAN2011 00:06:32
Stop time of products	18JAN2011 23:57:09
Store outputs in DB	Yes
Nb of level 1b prods	157
Nb of prods with errors	0

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

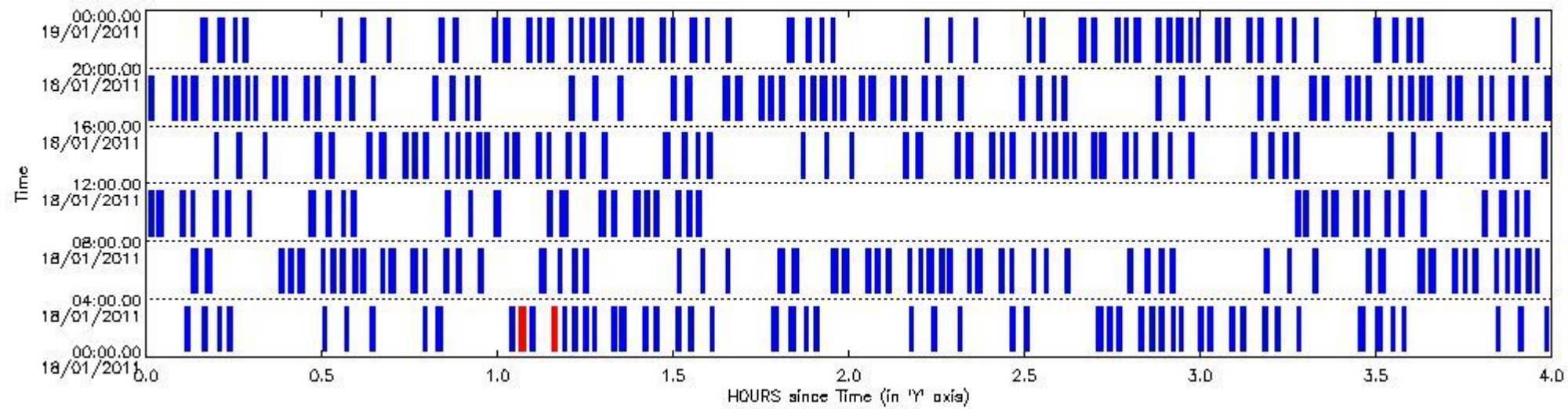
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

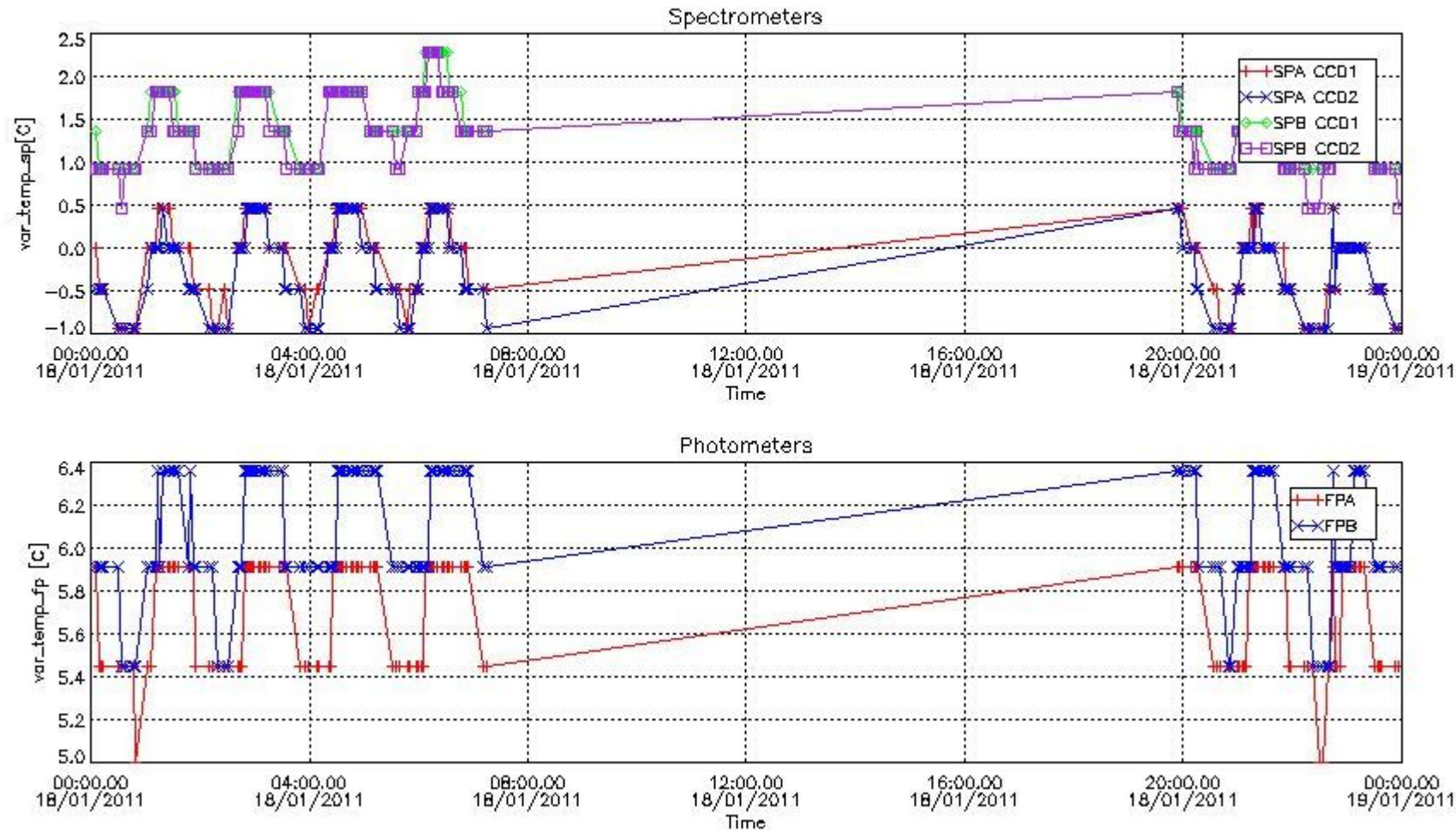
UTC start time	Star name	Star ID	Orbit
18-JAN-2011 01:03:45	7DelSco	80	46453
18-JAN-2011 01:09:13	GamLup	131	46453

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_1PNPDE20110118_000632_000000563098_00318_46453_4767.N1	18-JAN-2011 00:06:32	TwI_and_stray	55.500	8	10Alp CMi	0.40000	6500.0	111	46453	No
2	GOM_TRA_1PNPDE20110118_000932_000000443098_00318_46453_4768.N1	18-JAN-2011 00:09:32	Bright	43.500	44	24Gam Gem	1.9280	11000.	87	46453	No
3	GOM_TRA_1PNPDE20110118_001205_000000403098_00318_46453_4769.N1	18-JAN-2011 00:12:05	Bright	39.500	170	27Eps Gem	3.0000	9700.0	79	46453	No
4	GOM_TRA_1PNPDE20110118_001353_000000463098_00318_46453_4770.N1	18-JAN-2011 00:13:53	Bright	45.500	17	78Bet Gem	1.1610	4500.0	91	46453	No
5	GOM_TRA_1PNPDE20110118_003004_000000353098_00318_46453_4771.N1	18-JAN-2011 00:30:04	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	46453	No
6	GOM_TRA_1PNPDE20110118_003356_000000373098_00318_46453_4772.N1	18-JAN-2011 00:33:56	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	46453	No
7	GOM_TRA_1PNPDE20110118_003819_000000383098_00318_46453_4773.N1	18-JAN-2011 00:38:19	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	46453	No
8	GOM_TRA_1PNPDE20110118_004716_000000373098_00318_46453_4774.N1	18-JAN-2011 00:47:16	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	46453	No
9	GOM_TRA_1PNPDE20110118_004932_000000663098_00318_46453_4775.N1	18-JAN-2011 00:49:32	Bright	66.000	67	5Alp CrB	2.2210	11000.	132	46453	No

128	GOM_TRA_1PNPDE20110118_215234_000000473098_00331_46466_4979.N1	18-JAN-2011 21:52:34	Bright	47.000	44	24Gam Gem	1.9280	11000.	94	46466	No
129	GOM_TRA_1PNPDE20110118_215506_000000393098_00331_46466_4980.N1	18-JAN-2011 21:55:06	Bright	38.500	170	27Eps Gem	3.0000	9700.0	77	46466	No
130	GOM_TRA_1PNPDE20110118_215650_000000473098_00331_46466_4981.N1	18-JAN-2011 21:56:50	Bright	46.500	17	78Bet Gem	1.1610	4500.0	93	46466	No
131	GOM_TRA_1PNPDE20110118_221257_000000423098_00331_46466_4982.N1	18-JAN-2011 22:12:57	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	46466	No
132	GOM_TRA_1PNPDE20110118_221656_000000393098_00331_46466_4983.N1	18-JAN-2011 22:16:56	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	46466	No
133	GOM_TRA_1PNPDE20110118_222120_000000393098_00331_46466_4984.N1	18-JAN-2011 22:21:20	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	46466	No
134	GOM_TRA_1PNPDE20110118_223020_000000383098_00331_46466_4985.N1	18-JAN-2011 22:30:20	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	46466	No
135	GOM_TRA_1PNPDE20110118_223237_000000463098_00331_46466_4986.N1	18-JAN-2011 22:32:37	Bright	46.000	67	5Alp CrB	2.2210	11000.	92	46466	No
136	GOM_TRA_1PNPDE20110118_223915_000000653098_00331_46466_4987.N1	18-JAN-2011 22:39:15	Bright	65.000	102	24Alp Ser	2.6000	4250.0	130	46466	No
137	GOM_TRA_1PNPDE20110118_224119_000000583098_00331_46466_4988.N1	18-JAN-2011 22:41:19	Bright	58.000	120	1Del Oph	2.7340	3200.0	116	46466	No
138	GOM_TRA_1PNPDE20110118_224519_000000513098_00331_46466_4989.N1	18-JAN-2011 22:45:19	Twilight	50.500	104	27Bet Lib	2.6140	13100.	101	46466	No
139	GOM_TRA_1PNPDE20110118_224658_000000443098_00331_46466_4990.N1	18-JAN-2011 22:46:58	Twilight	44.000	80	7Del Sco	2.3160	30000.	88	46466	No
140	GOM_TRA_1PNPDE20110118_224846_000000553098_00331_46466_4991.N1	18-JAN-2011 22:48:46	Dark	54.500	122	9Alp2Lib	2.7470	9700.0	109	46466	No
141	GOM_TRA_1PNPDE20110118_225226_000000403098_00331_46466_4992.N1	18-JAN-2011 22:52:26	Dark	39.500	131	Gam Lup	2.8000	26000.	79	46466	No
142	GOM_TRA_1PNPDE20110118_225417_000000423098_00331_46466_4993.N1	18-JAN-2011 22:54:17	Dark	41.500	109	Bet Lup	2.6770	26000.	83	46466	No
143	GOM_TRA_1PNPDE20110118_225555_000000623098_00331_46466_4994.N1	18-JAN-2011 22:55:55	Dark	62.000	54	5The Cen	2.0550	4500.0	124	46466	No
144	GOM_TRA_1PNPDE20110118_225756_000000453098_00332_46467_4995.N1	18-JAN-2011 22:57:56	Dark	44.500	95	Zet Cen	2.5450	26000.	89	46467	No
145	GOM_TRA_1PNPDE20110118_225919_000000433098_00332_46467_4996.N1	18-JAN-2011 22:59:19	Dark	43.000	77	Eps Cen	2.3030	28000.	86	46467	No
146	GOM_TRA_1PNPDE20110118_230237_000000423098_00332_46467_4997.N1	18-JAN-2011 23:02:37	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	46467	No
147	GOM_TRA_1PNPDE20110118_230757_000000523098_00332_46467_4998.N1	18-JAN-2011 23:07:57	Dark	52.000	113	Mu Vel	2.6920	5000.0	104	46467	No
148	GOM_TRA_1PNPDE20110118_230950_000000453098_00332_46467_4999.N1	18-JAN-2011 23:09:50	Dark	44.500	91	Kap Vel	2.4900	26000.	89	46467	No
149	GOM_TRA_1PNPDE20110118_231308_000000483098_00332_46467_5000.N1	18-JAN-2011 23:13:08	Dark	48.000	65	Lam Vel	2.2040	4400.0	96	46467	No
150	GOM_TRA_1PNPDE20110118_231539_000000413098_00332_46467_5001.N1	18-JAN-2011 23:15:39	Dark	40.500	70	Zet Pup	2.2460	39000.	81	46467	No
151	GOM_TRA_1PNPDE20110118_231920_000000423098_00332_46467_5002.N1	18-JAN-2011 23:19:20	Straylight	42.000	88	31Eta CMa	2.4480	20000.	84	46467	No
152	GOM_TRA_1PNPDE20110118_232946_000000573098_00332_46467_5003.N1	18-JAN-2011 23:29:46	Twilight	56.500	8	10Alp CMi	0.40000	6500.0	113	46467	No
153	GOM_TRA_1PNPDE20110118_233248_000000533098_00332_46467_5004.N1	18-JAN-2011 23:32:48	Bright	53.000	44	24Gam Gem	1.9280	11000.	106	46467	No
154	GOM_TRA_1PNPDE20110118_233520_000000403098_00332_46467_5005.N1	18-JAN-2011 23:35:20	Bright	39.500	170	27Eps Gem	3.0000	9700.0	79	46467	No
155	GOM_TRA_1PNPDE20110118_233703_000000463098_00332_46467_5006.N1	18-JAN-2011 23:37:03	Bright	46.000	17	78Bet Gem	1.1610	4500.0	92	46467	No
156	GOM_TRA_1PNPDE20110118_235310_000000423098_00332_46467_5007.N1	18-JAN-2011 23:53:10	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	46467	No
157	GOM_TRA_1PNPDE20110118_235709_000000353098_00332_46467_5008.N1	18-JAN-2011 23:57:09	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	46467	No

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



4. Overview of dark signal processing per product

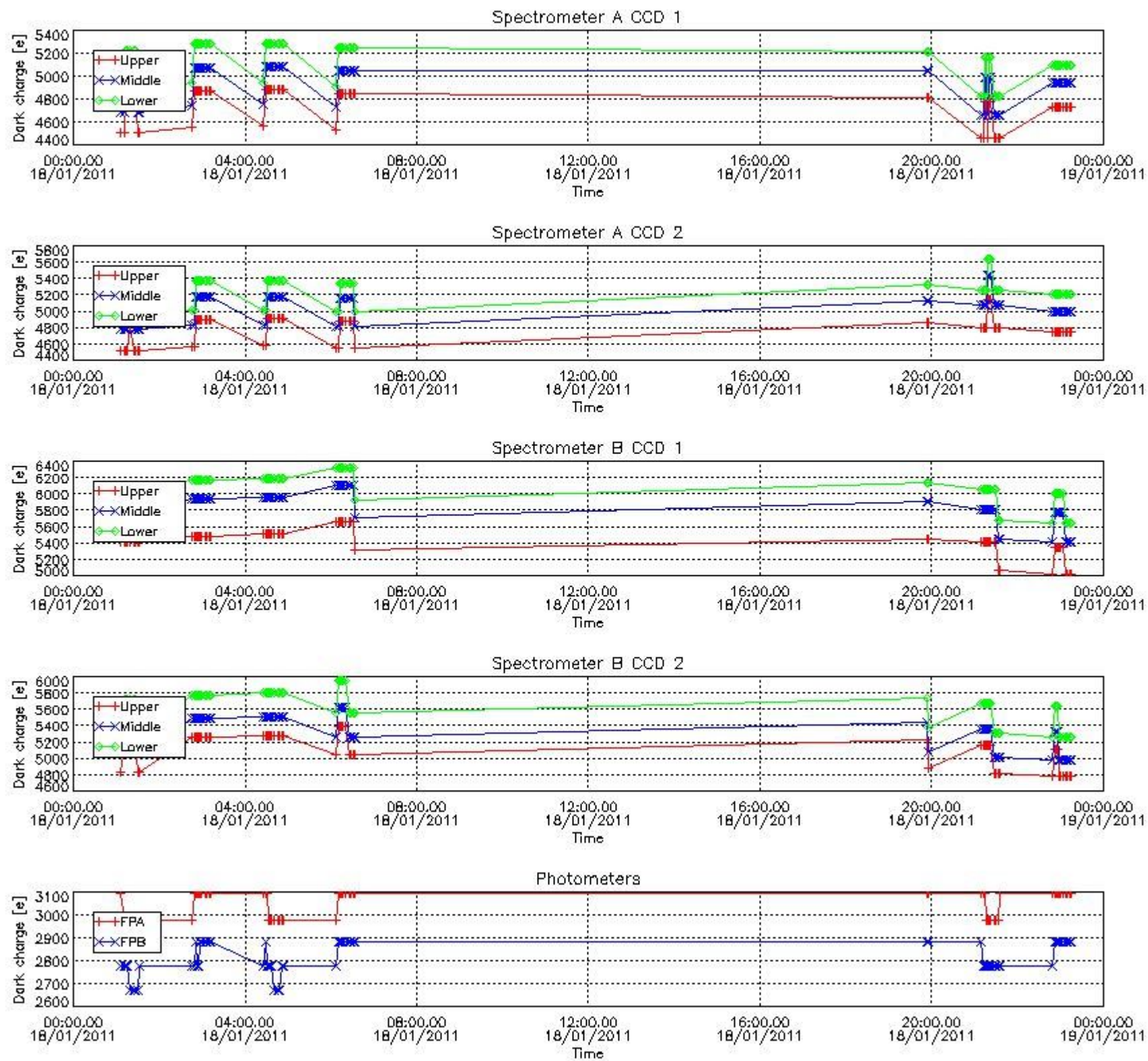
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20110118_195239_000000503098_00330_46465_4941.N1	DC map used
GOM_TRA_1PNPDE20110118_195511_000000443098_00330_46465_4942.N1	DC map used
GOM_TRA_1PNPDE20110118_195852_000000403098_00330_46465_4943.N1	DC map used
GOM_TRA_1PNPDE20110118_200918_000000553098_00330_46465_4944.N1	DC map used
GOM_TRA_1PNPDE20110118_201220_000000533098_00330_46465_4945.N1	DC map used
GOM_TRA_1PNPDE20110118_201452_000000393098_00330_46465_4946.N1	DC map used
GOM_TRA_1PNPDE20110118_201636_000000463098_00330_46465_4947.N1	DC map used
GOM_TRA_1PNPDE20110118_203244_000000413098_00330_46465_4948.N1	DC map used
GOM_TRA_1PNPDE20110118_203642_000000373098_00330_46465_4949.N1	DC map used
GOM_TRA_1PNPDE20110118_204106_000000393098_00330_46465_4950.N1	DC map used
GOM_TRA_1PNPDE20110118_205006_000000383098_00330_46465_4951.N1	DC map used
GOM_TRA_1PNPDE20110118_205223_000000563098_00330_46465_4952.N1	DC map used

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



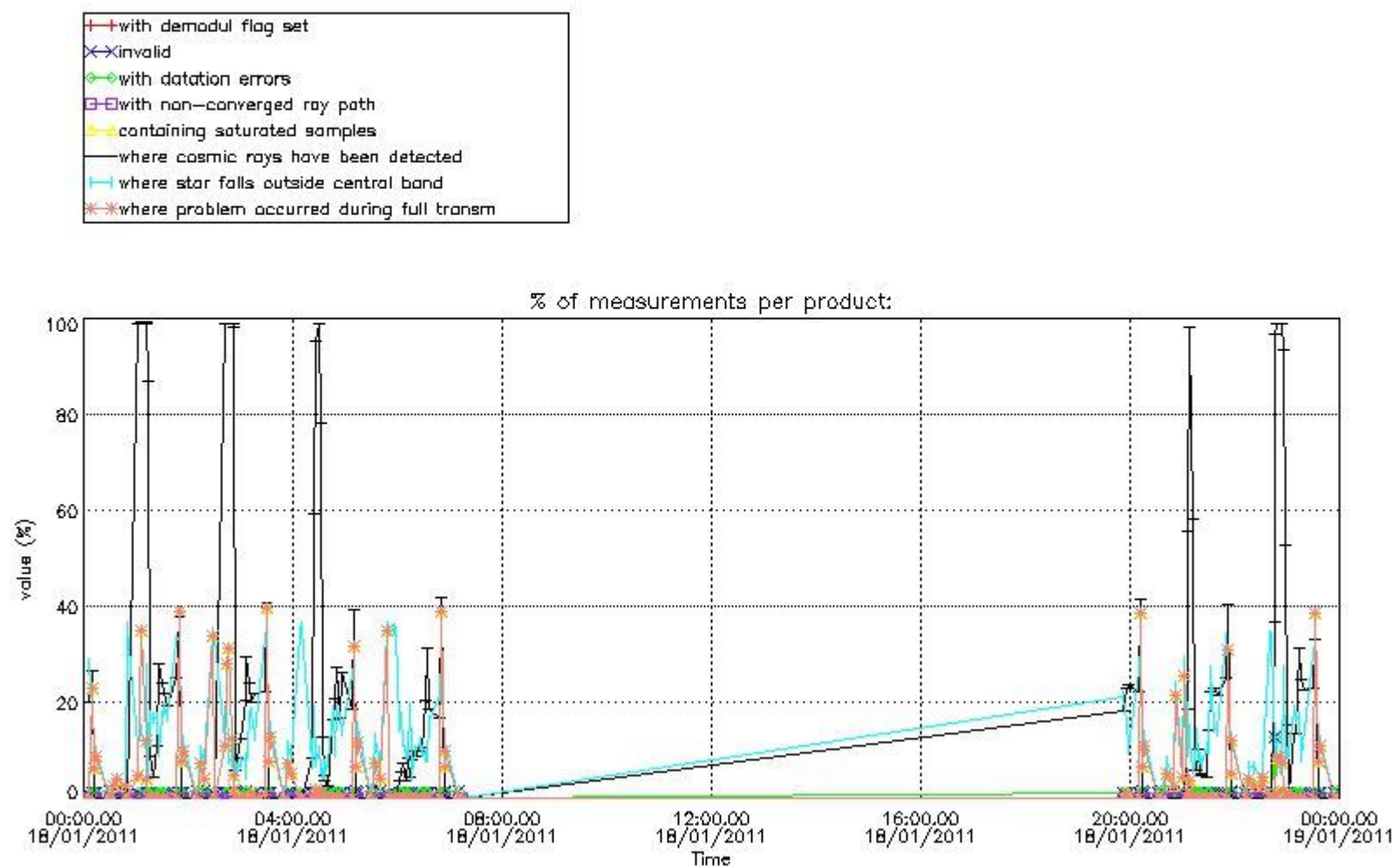
5. Demodulation flag and quality information monitoring

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.

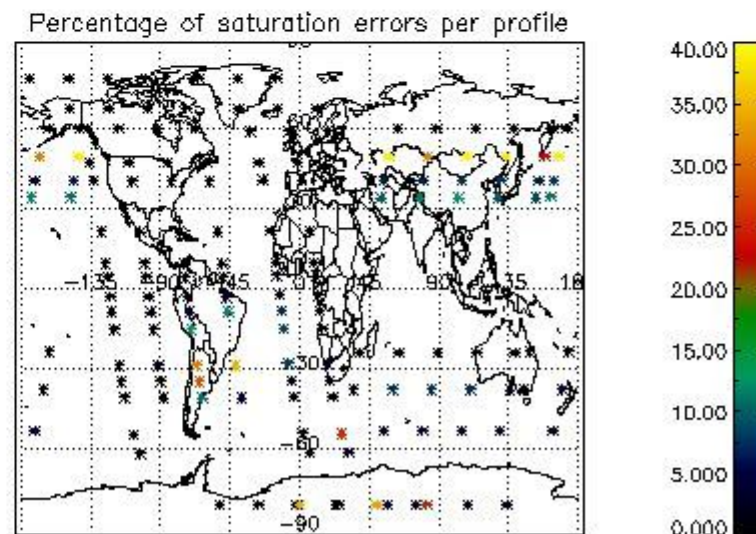
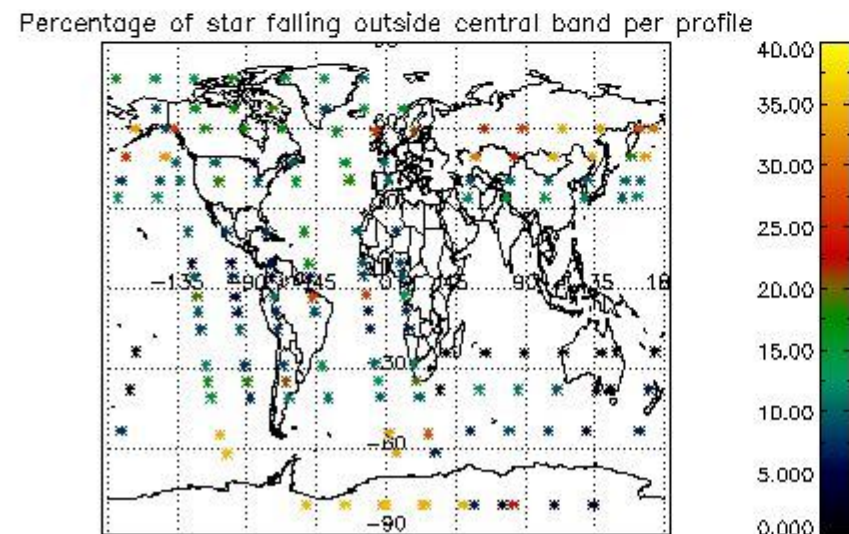
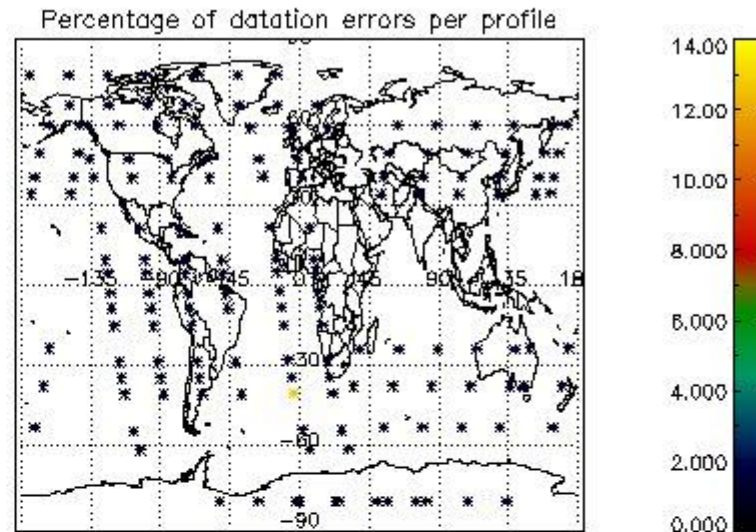
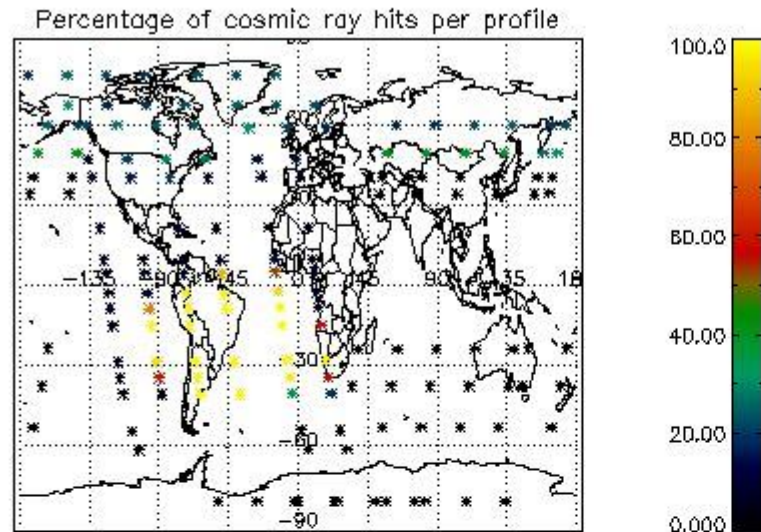
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	50.9554 %
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)



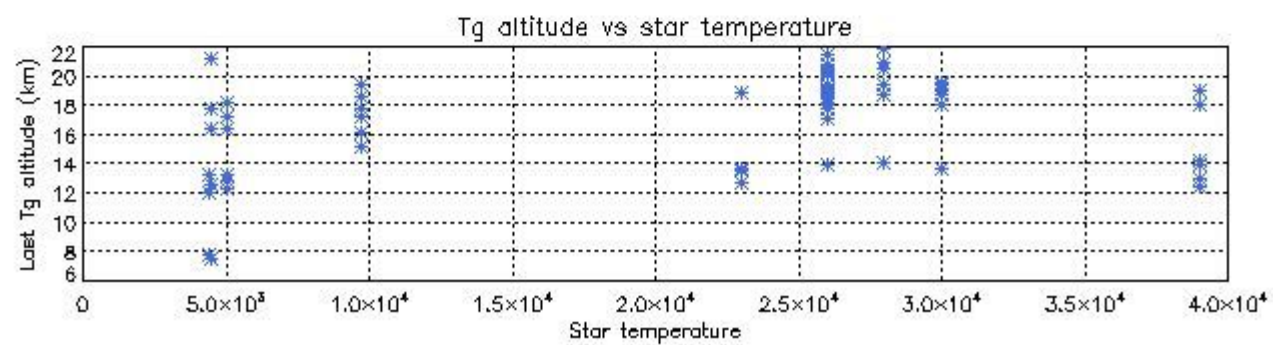
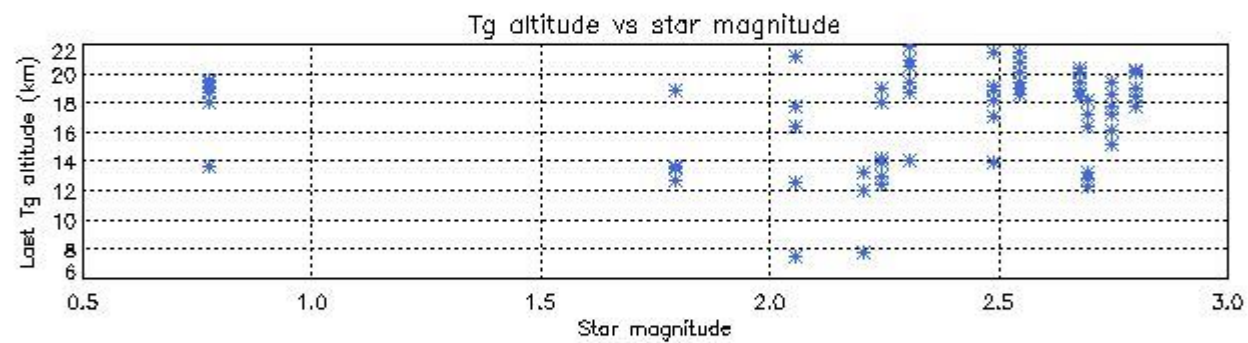
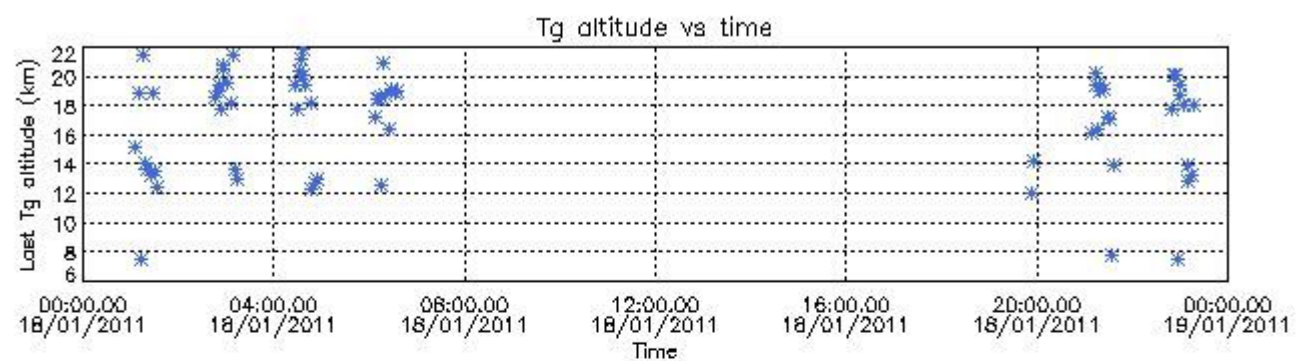
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.969	17.738	14.737
St. deviation:	3.4680	11.594	0.0000
Maximum:	21.830	48.927	14.737
Minimum:	7.4466	3.6829	14.737
Number of data:	67.000	64.000	1.0000

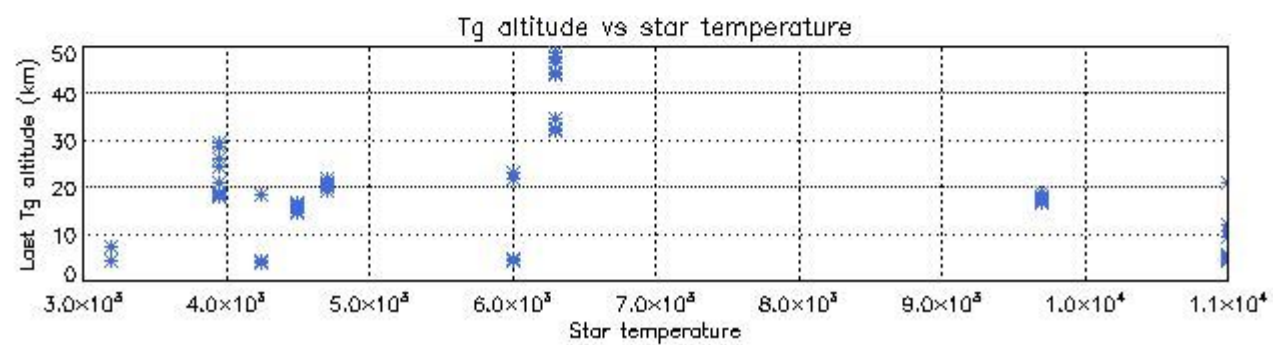
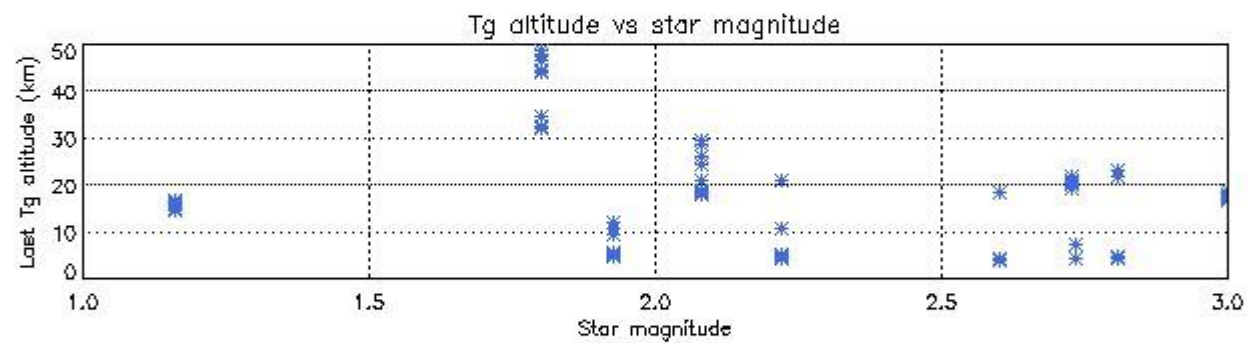
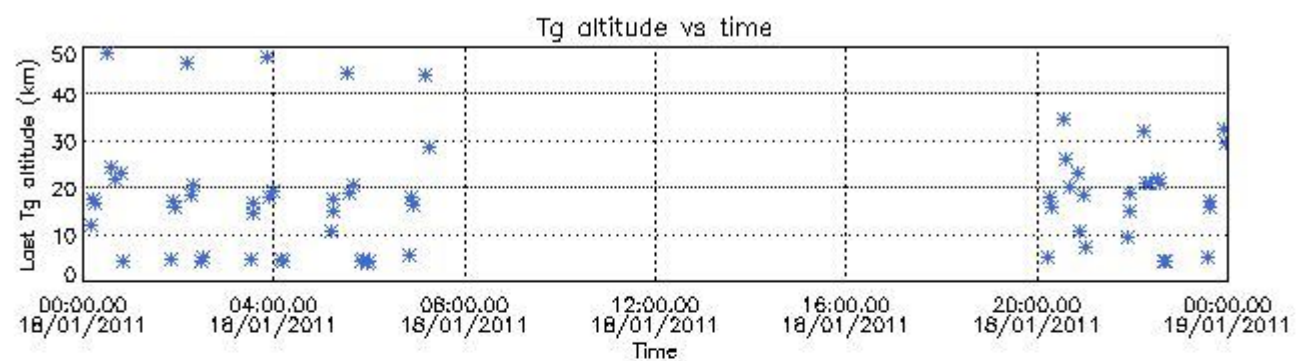
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



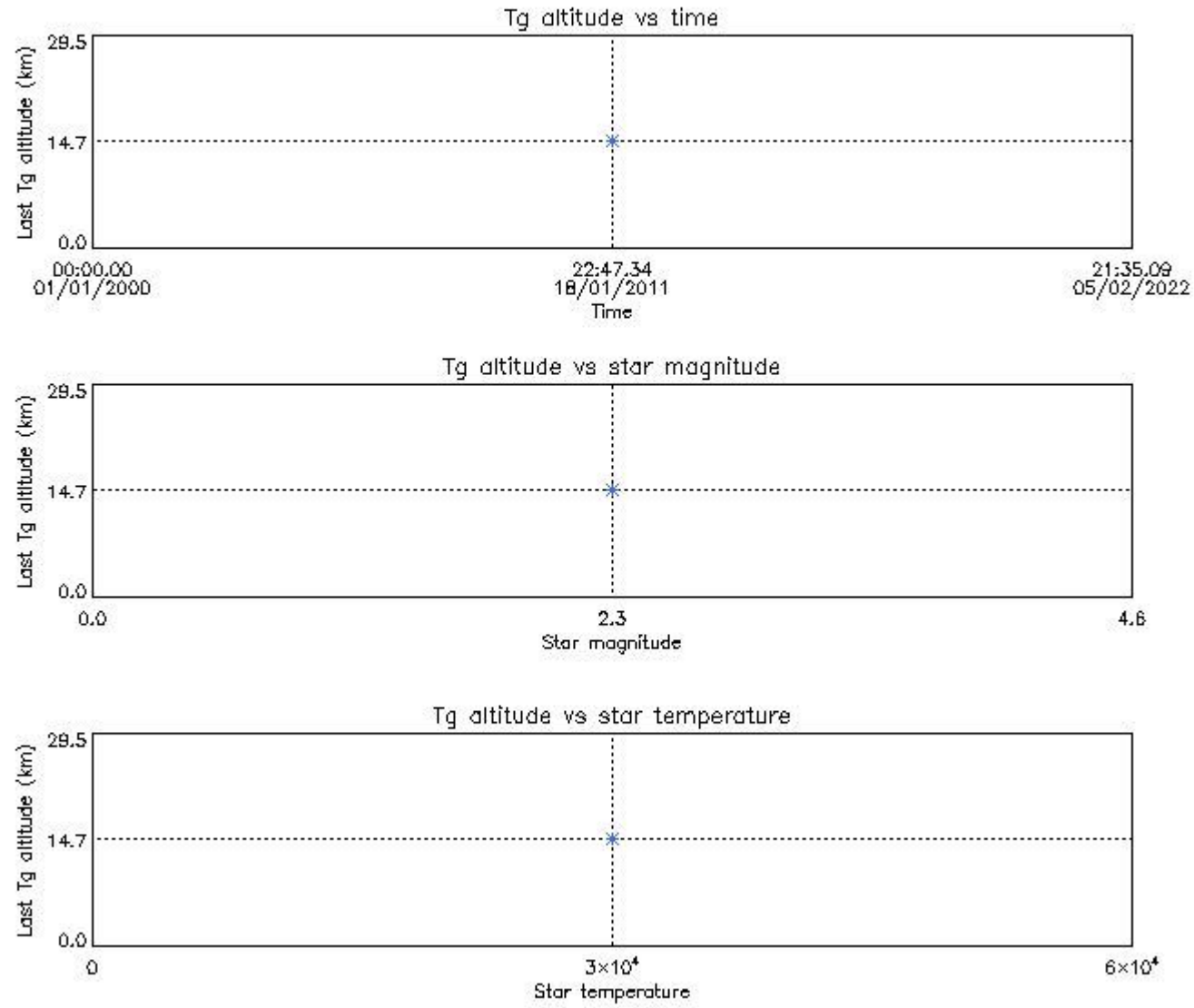
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

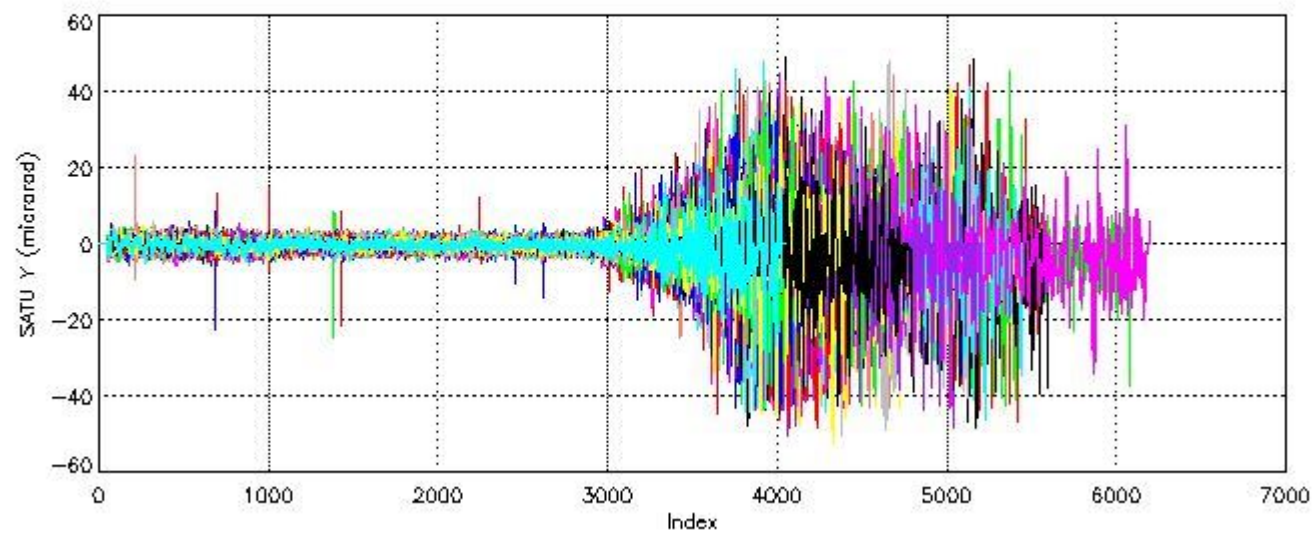
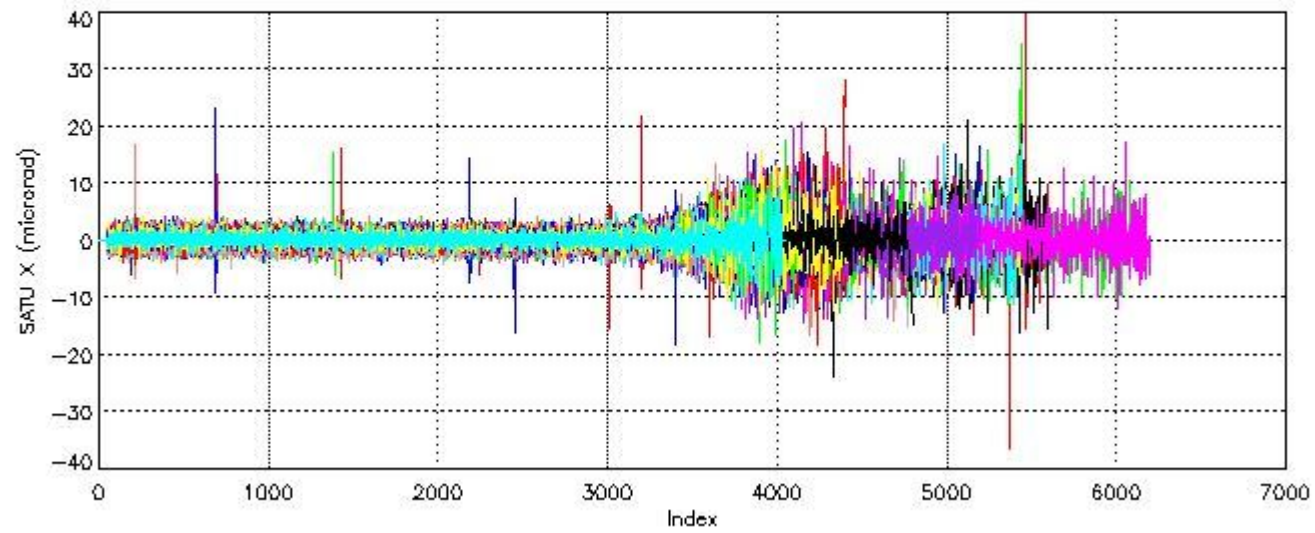


7. Star Acquisition and Tracking Unit (SATU)

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 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:	0.19222	-0.37233	0.18243	-0.38054
St. deviation:	0.77553	1.1749	0.55244	1.0111
Maximum:	23.100	23.400	4.2000	5.0000
Minimum:	-9.2000	-22.400	-3.7000	-5.4000

Number of data:	70650.	70650.	62250.	62250.
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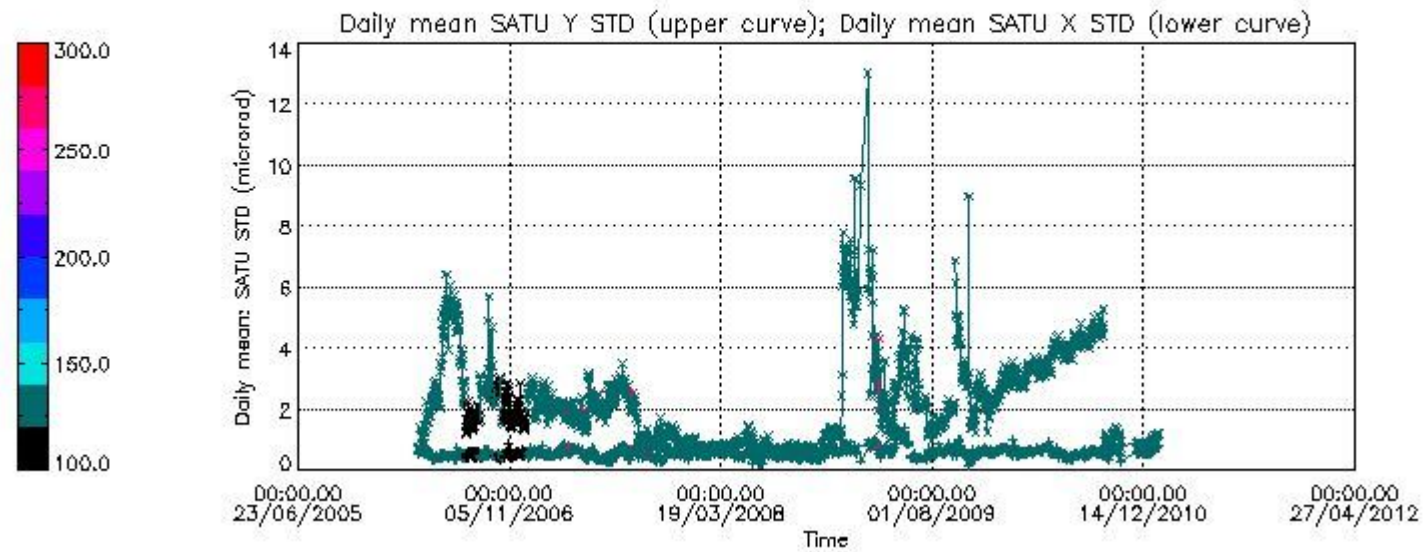
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

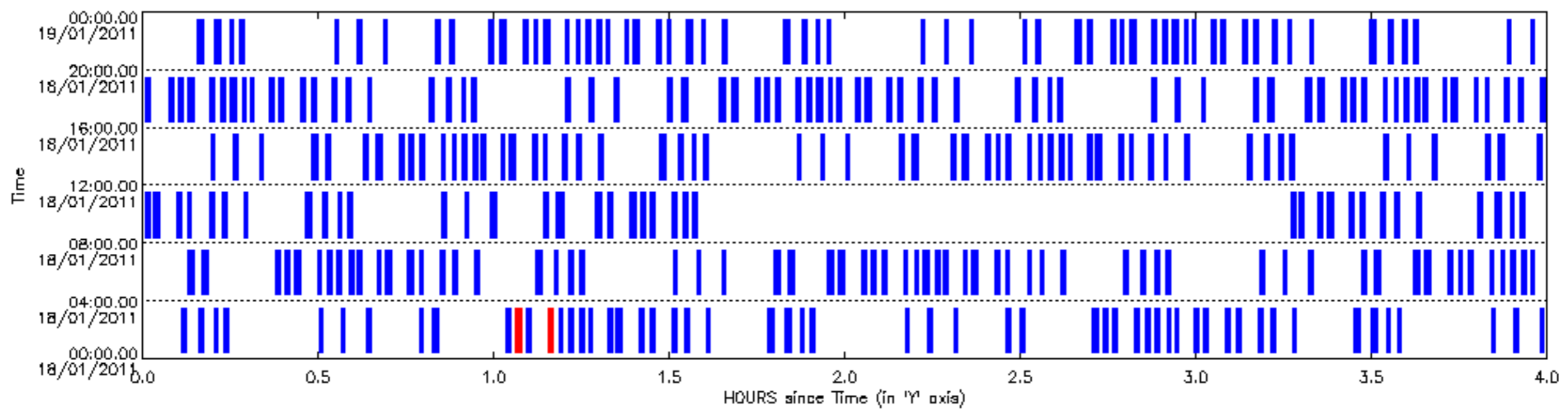
Lower curve: STD of SATU X axis

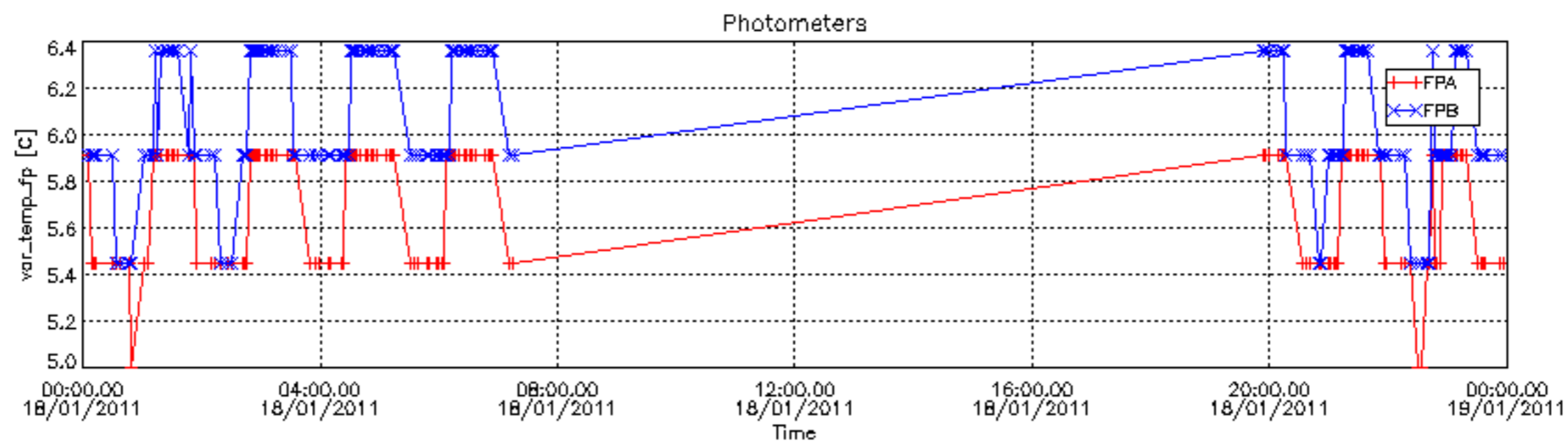
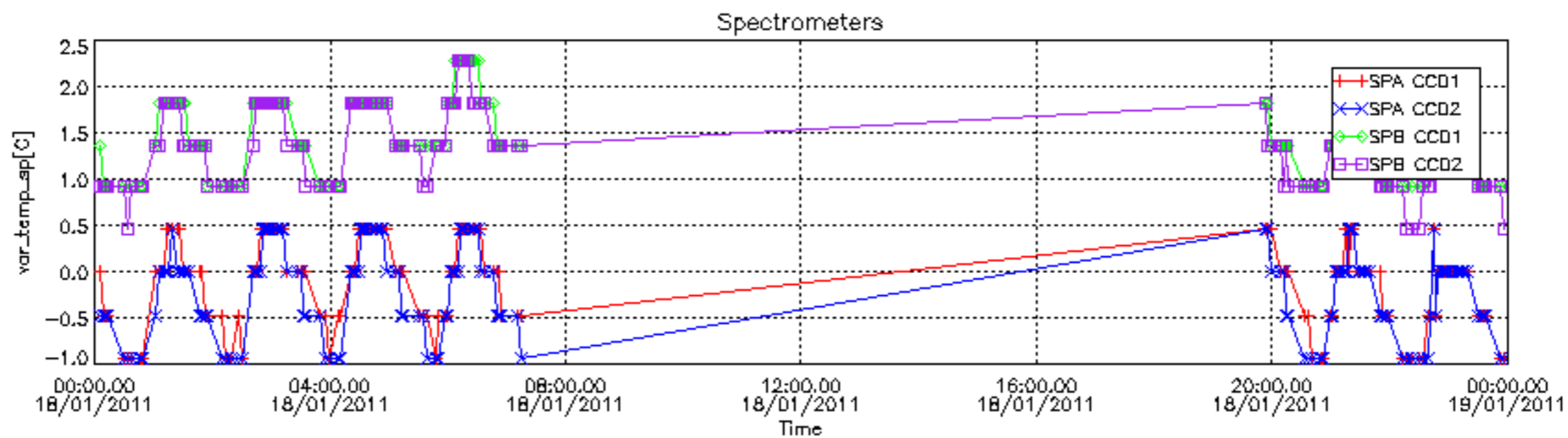


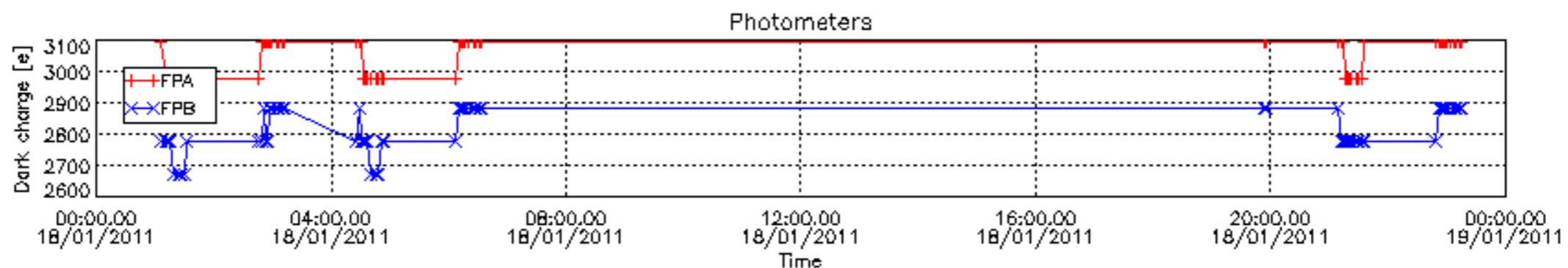
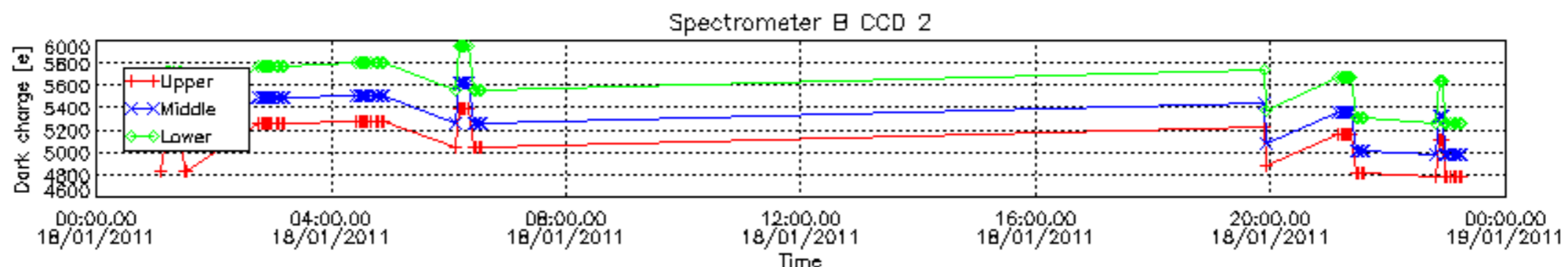
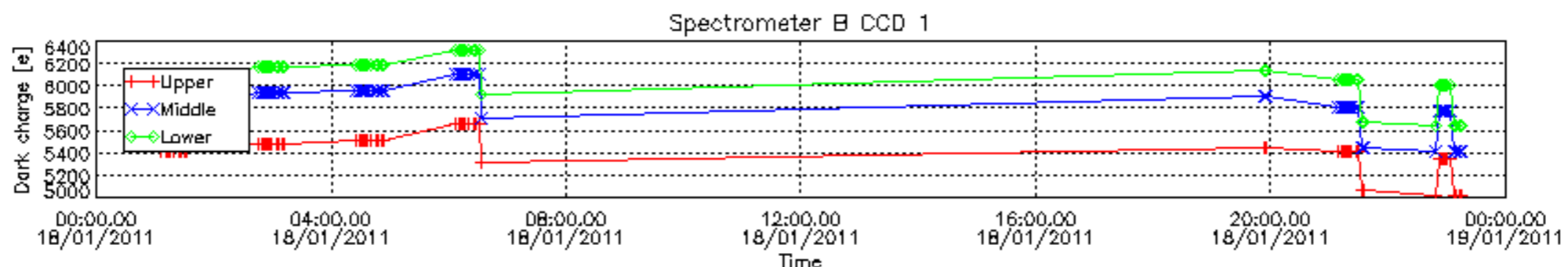
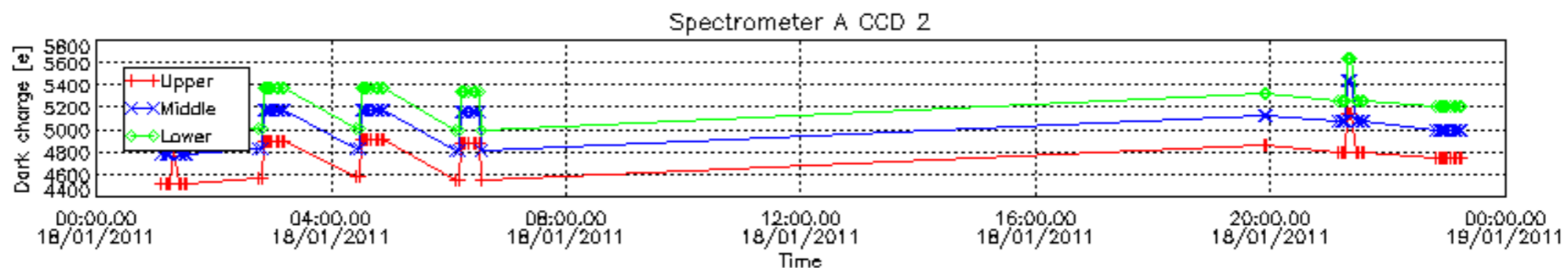
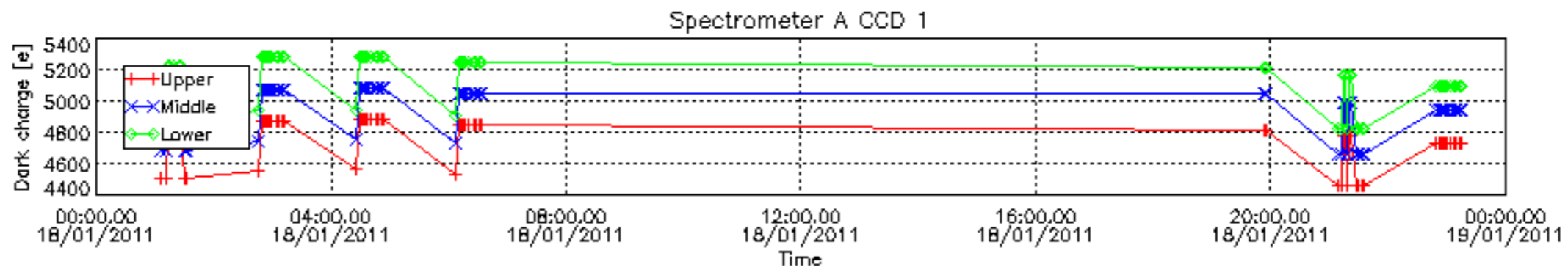
8. Auxiliary Data Files used for the production reported in section 2.4

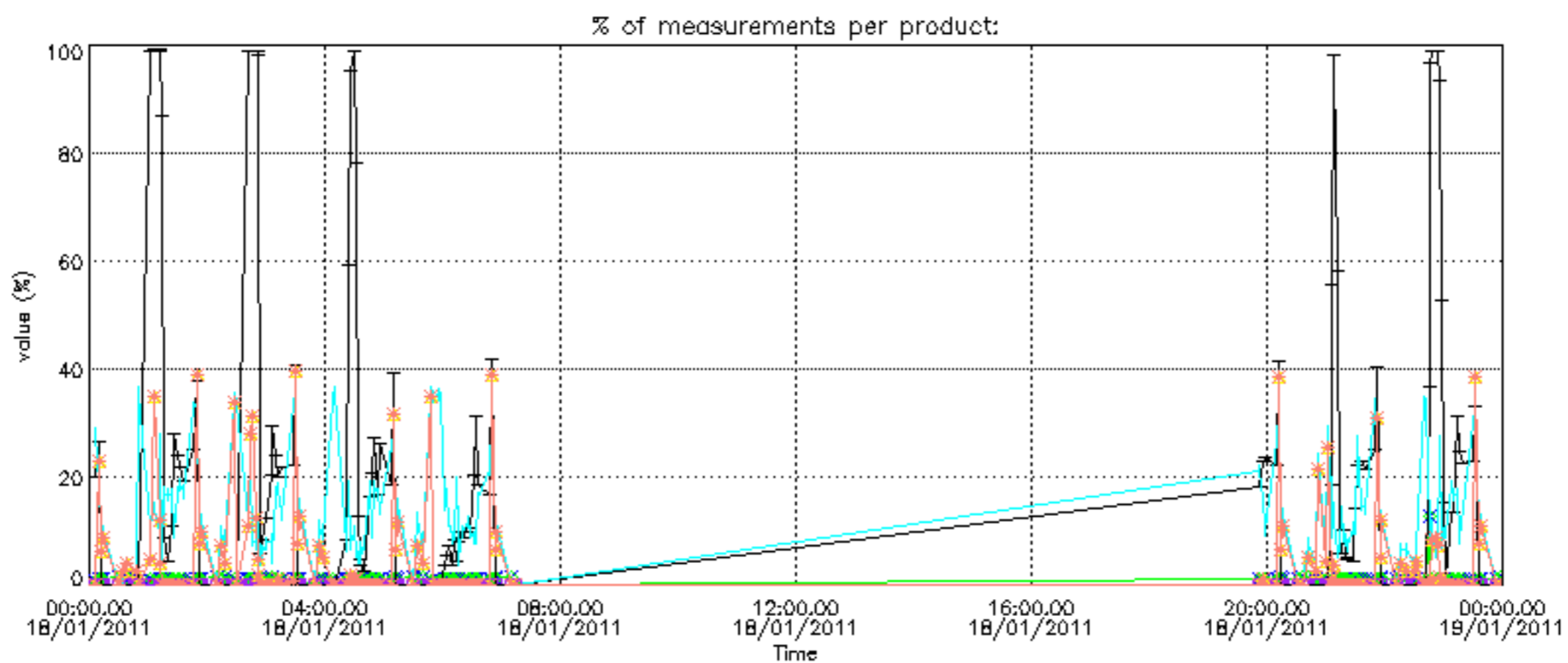
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	18-JAN-2011 00:06:32
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110111_101345_20110110_000000_20500101_000000	1	18-JAN-2011 00:06:32
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	18-JAN-2011 00:06:32
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-JAN-2011 00:06:32
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	18-JAN-2011 00:06:32
ECMWF_FILE	AUX_ECF_AXNECM20110117_052116_20110117_210000_20110118_090000	1	18-JAN-2011 00:06:32
ECMWF_FILE	AUX_ECF_AXNECM20110117_172114_20110118_030000_20110118_150000	50	18-JAN-2011 03:54:24
ECMWF_FILE	AUX_ECA_AXNECM20110118_052115_20110117_210000_20110118_090000	74	18-JAN-2011 05:39:00
ECMWF_FILE	AUX_ECA_AXNECM20110118_170922_20110118_090000_20110118_210000	99	18-JAN-2011 19:52:39
ECMWF_FILE	AUX_ECF_AXNECM20110118_052116_20110118_150000_20110119_030000	111	18-JAN-2011 20:59:00
ECMWF_FILE	AUX_ECF_AXNECM20110118_052116_20110118_210000_20110119_090000	138	18-JAN-2011 22:45:19
OPTIONAL_ECMWF_FILE	MISSING	1	18-JAN-2011 00:06:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110117_232105_000054193098_00317_46452_2346.N1	1	18-JAN-2011 00:06:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110118_005644_000098823098_00318_46453_2347.N1	10	18-JAN-2011 01:02:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110118_034645_000060573098_00320_46455_2348.N1	50	18-JAN-2011 03:54:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110118_053301_000057383098_00321_46456_2349.N1	74	18-JAN-2011 05:39:00
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110117_222114_20110117_183237_20110127_204629	99	18-JAN-2011 19:52:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110118_205730_000060573098_00330_46465_2351.N1	111	18-JAN-2011 20:59:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110118_224346_000057383098_00331_46466_2352.N1	138	18-JAN-2011 22:45:19

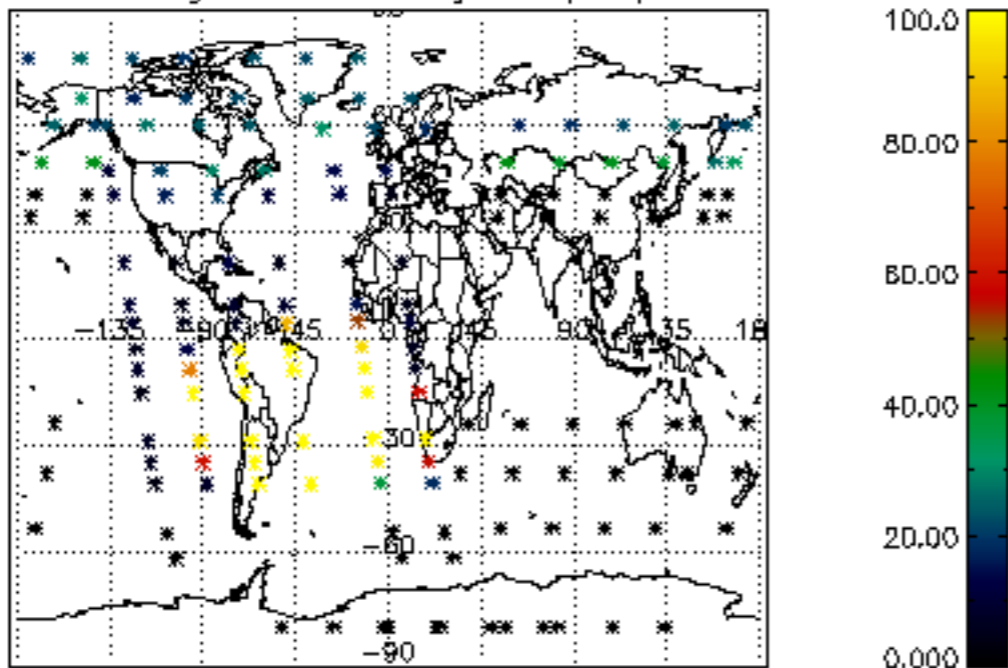




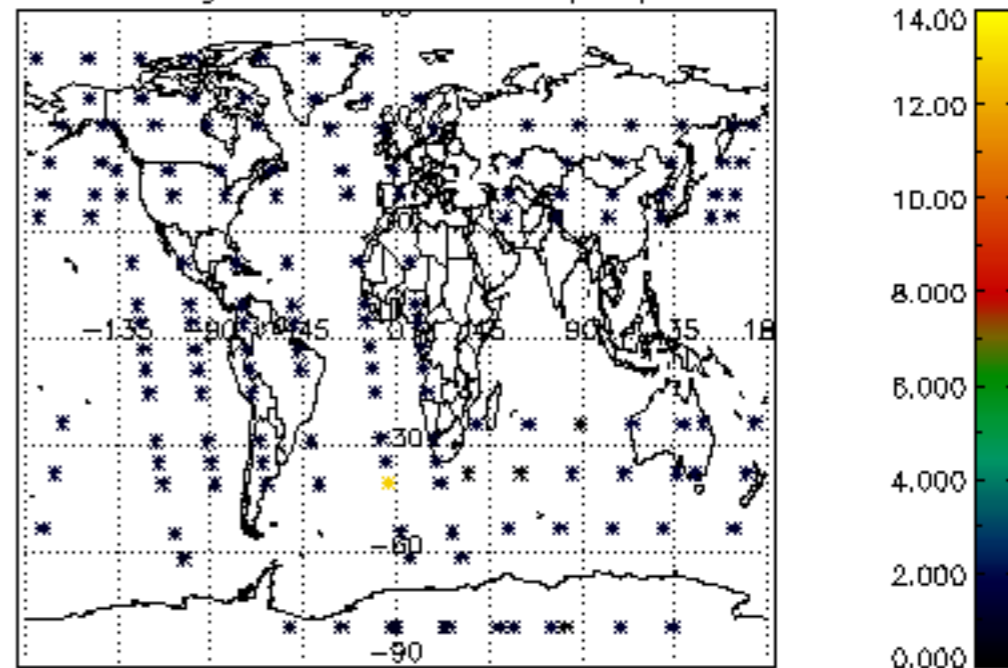




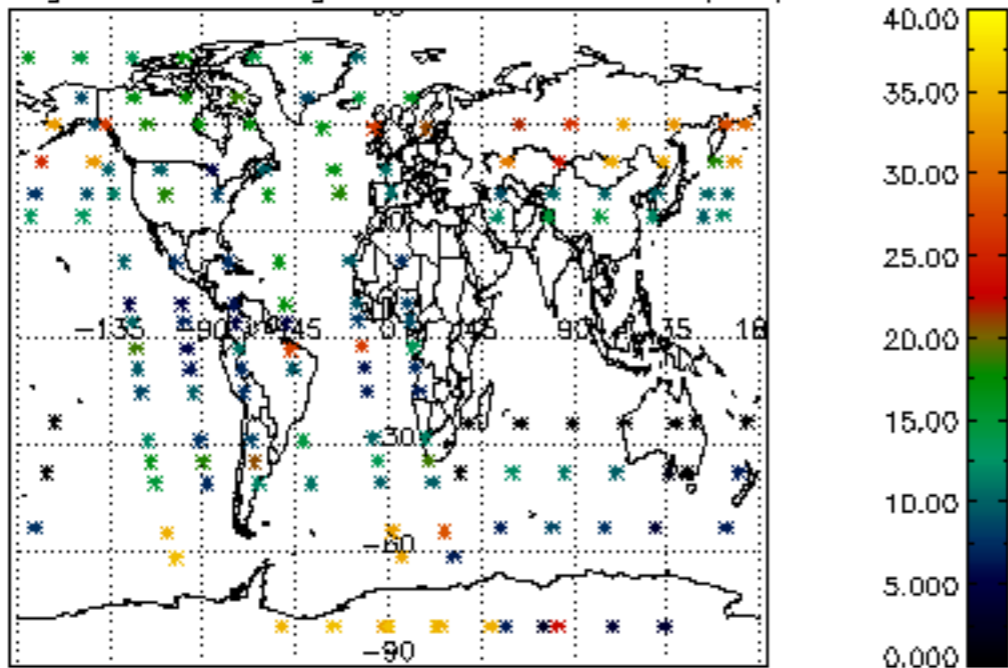
Percentage of cosmic ray hits per profile



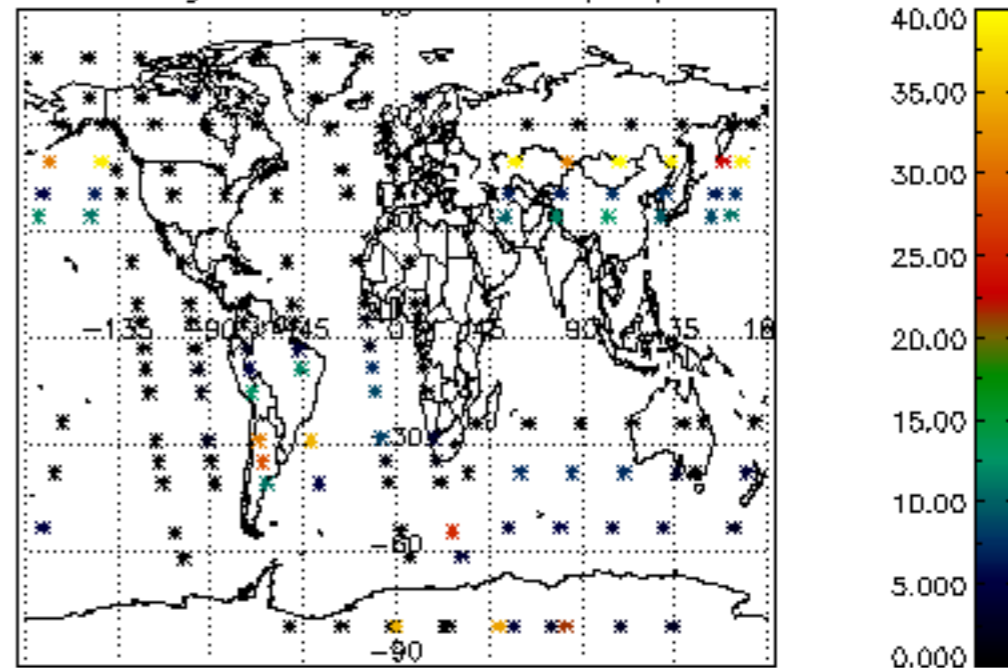
Percentage of datation errors per profile



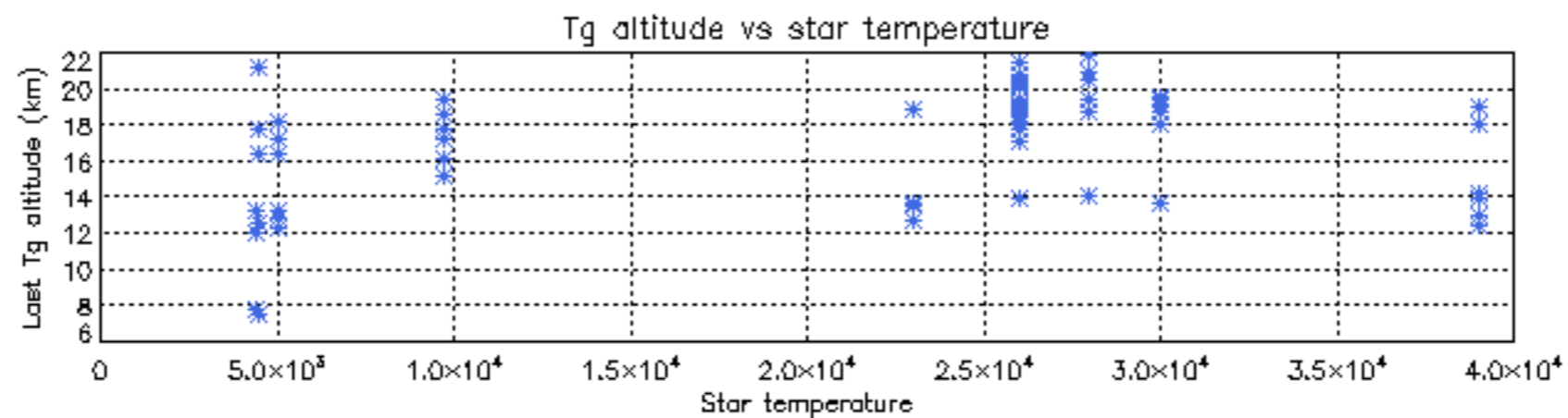
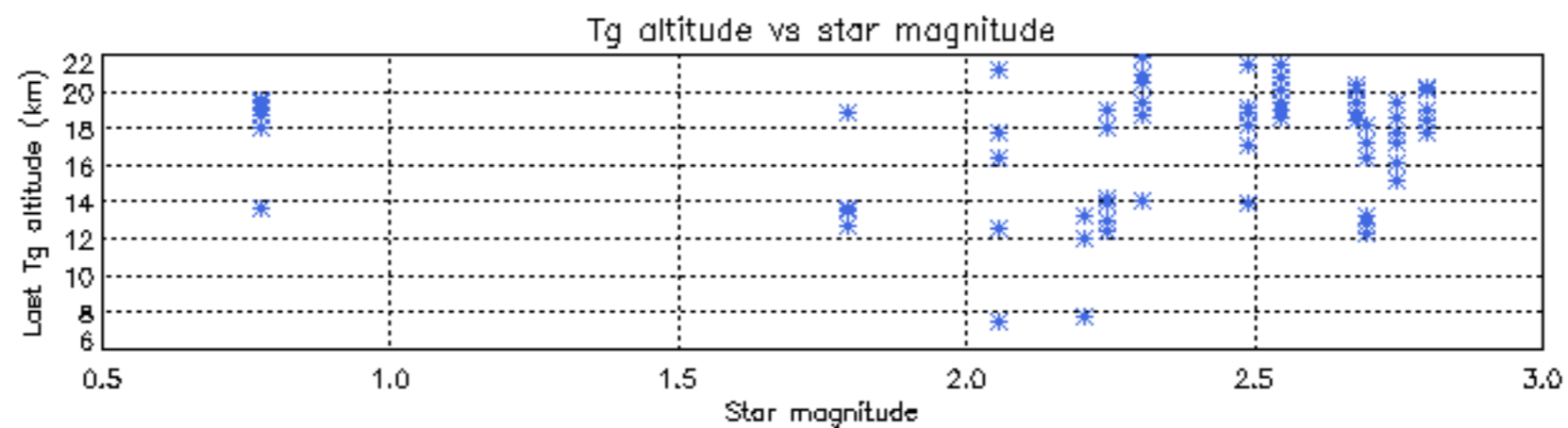
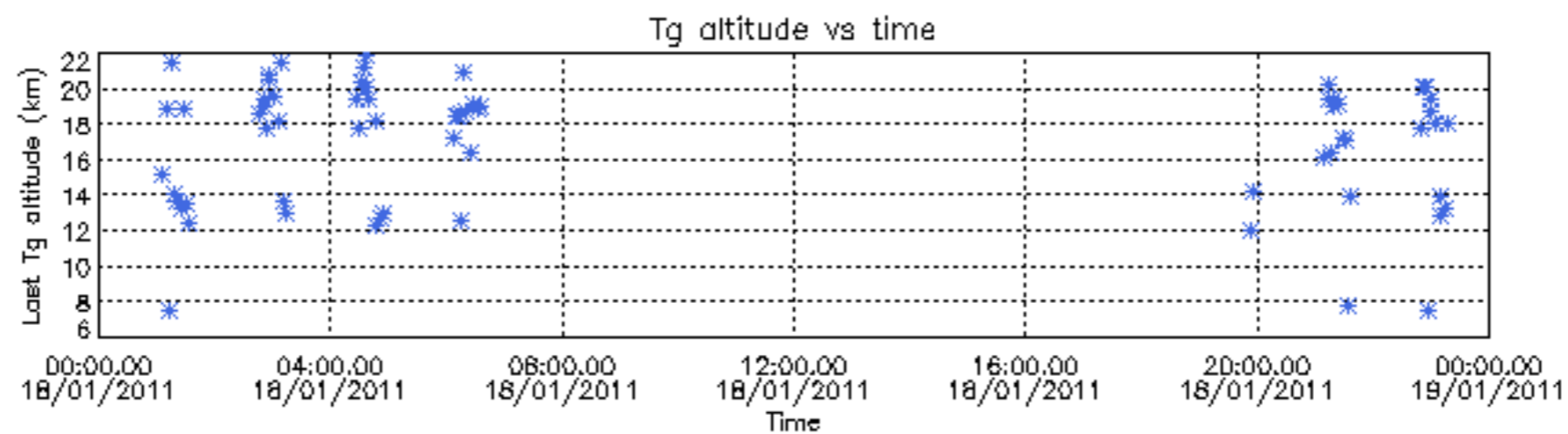
Percentage of star falling outside central band per profile



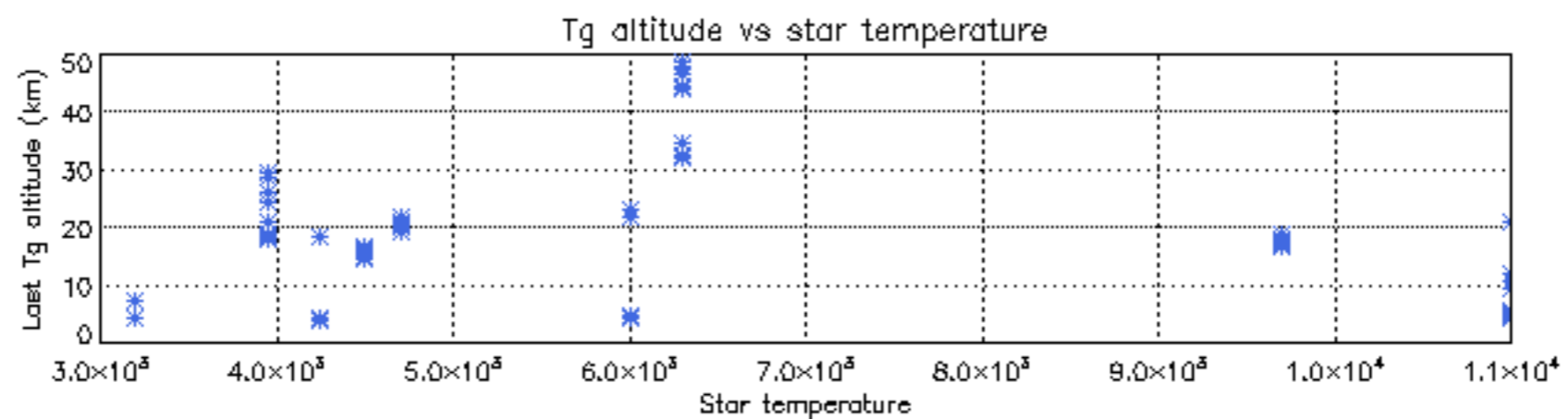
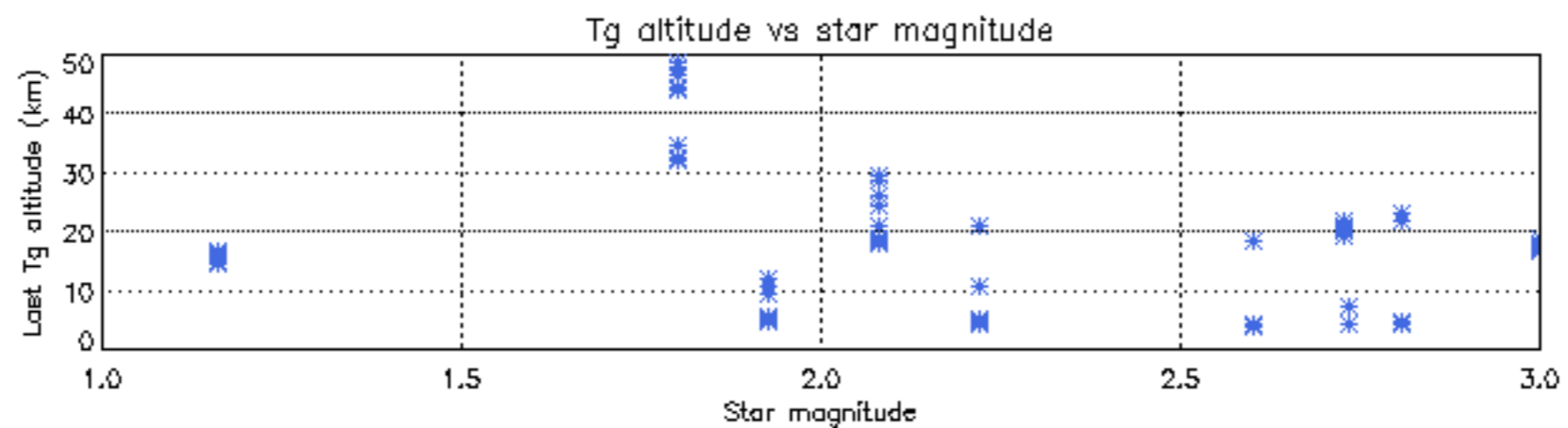
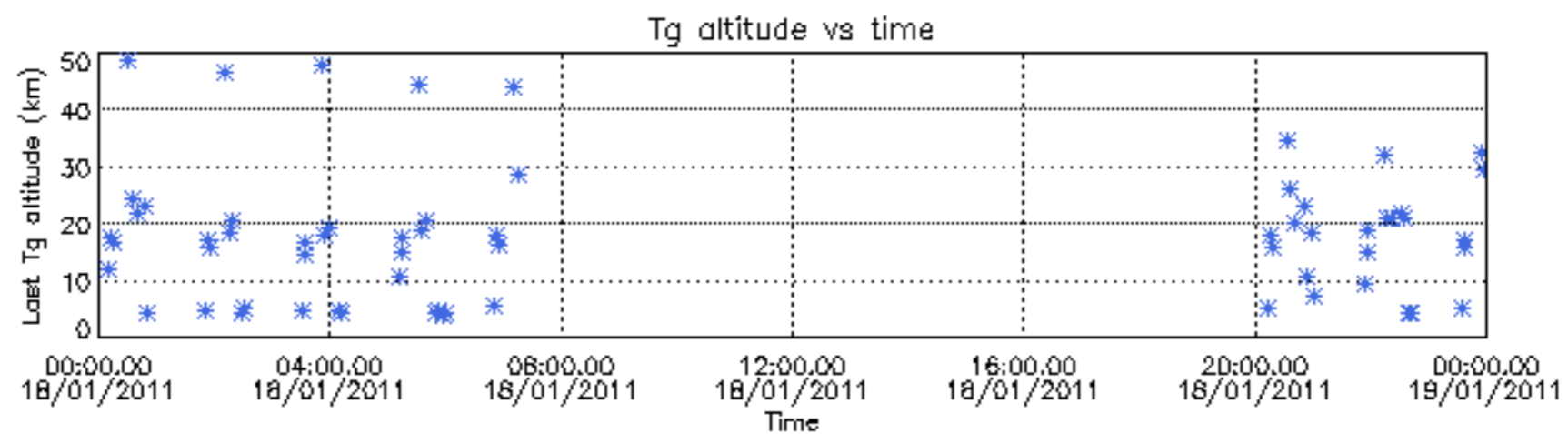
Percentage of saturation errors per profile



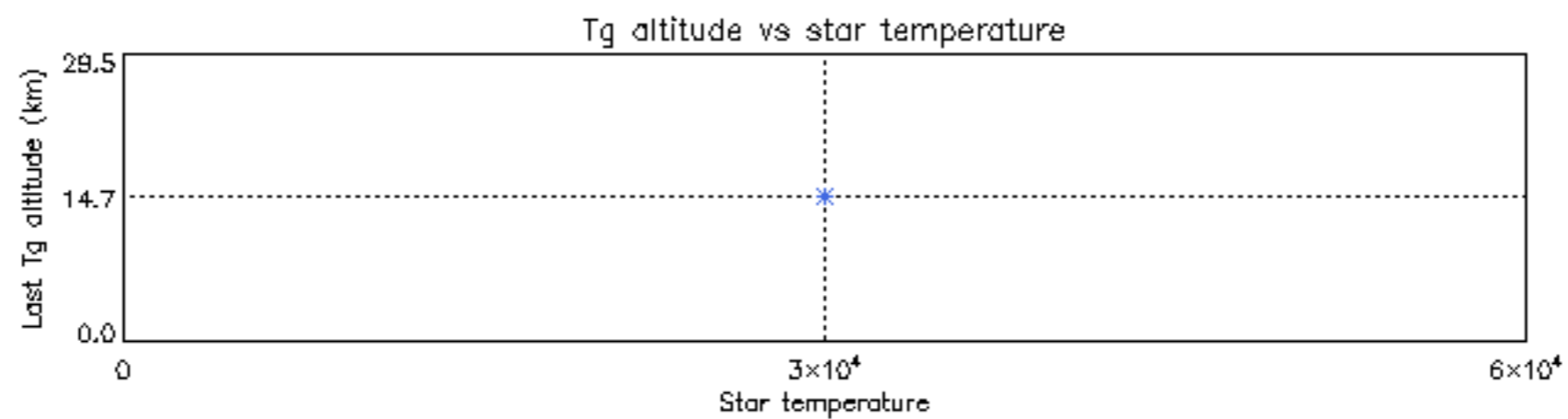
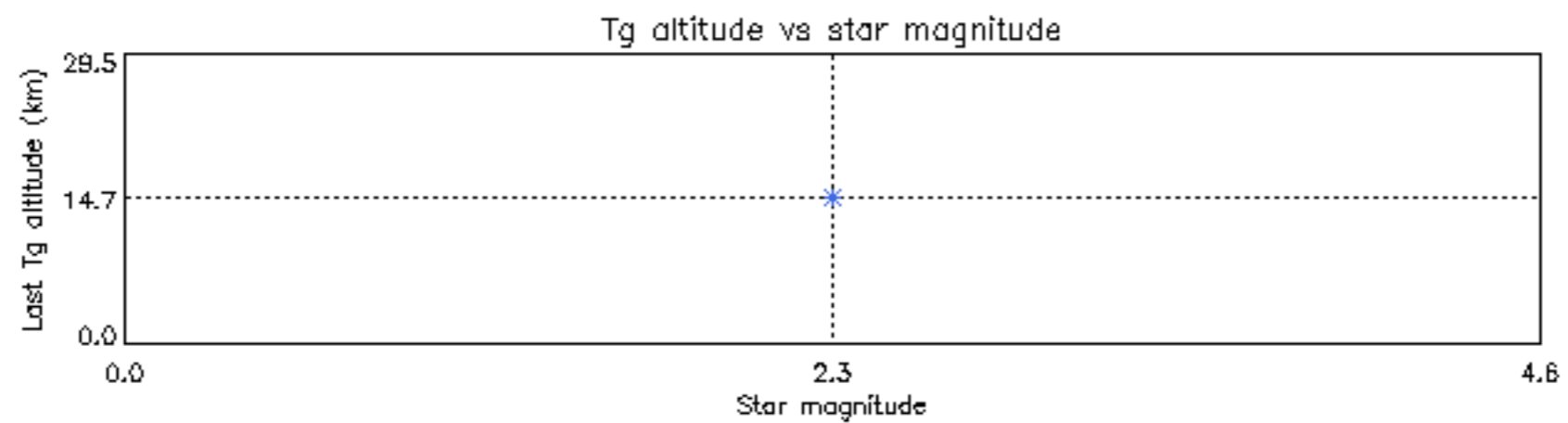
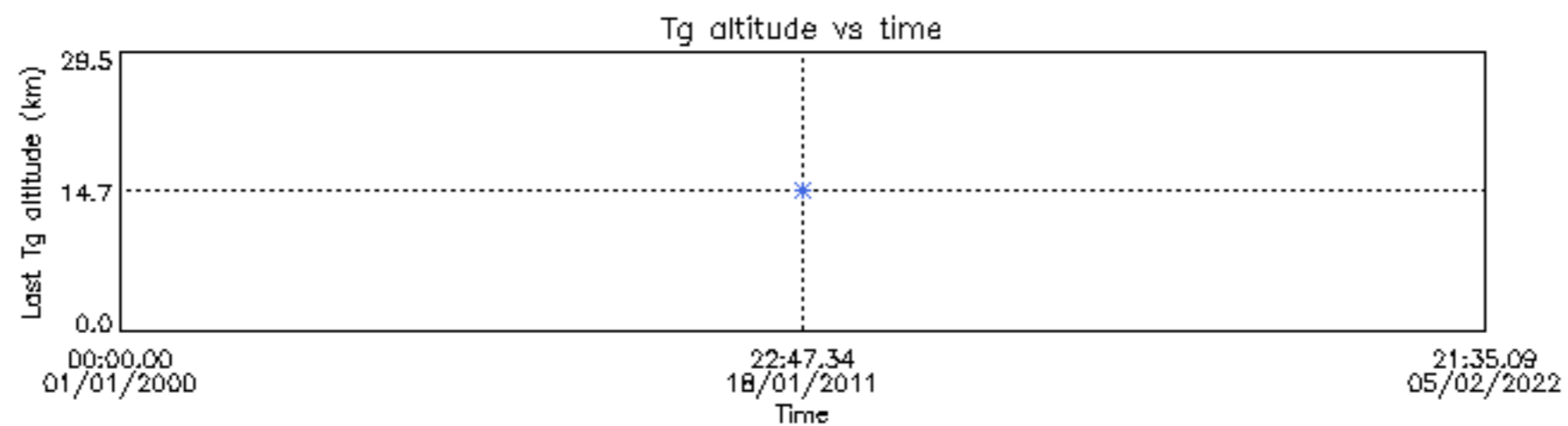
Tangent altitude at which the star is lost

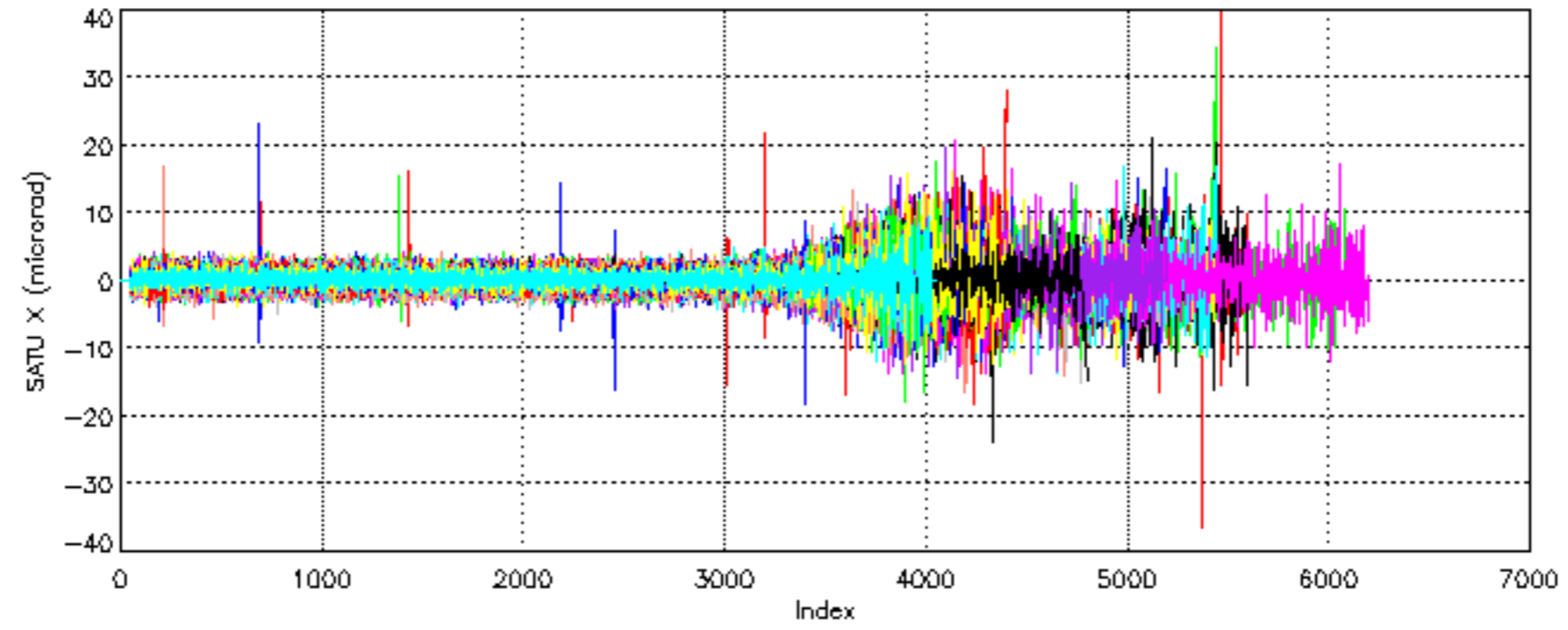


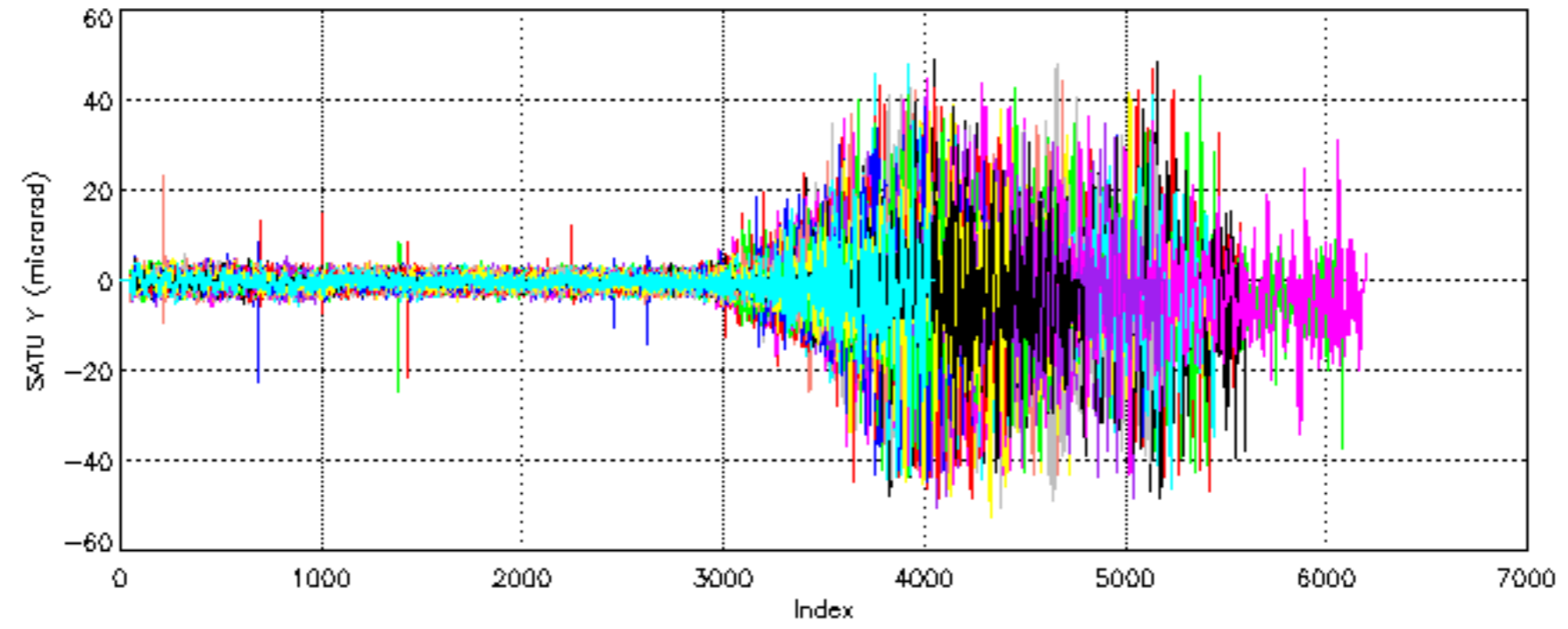
Tangent altitude at which the star is lost

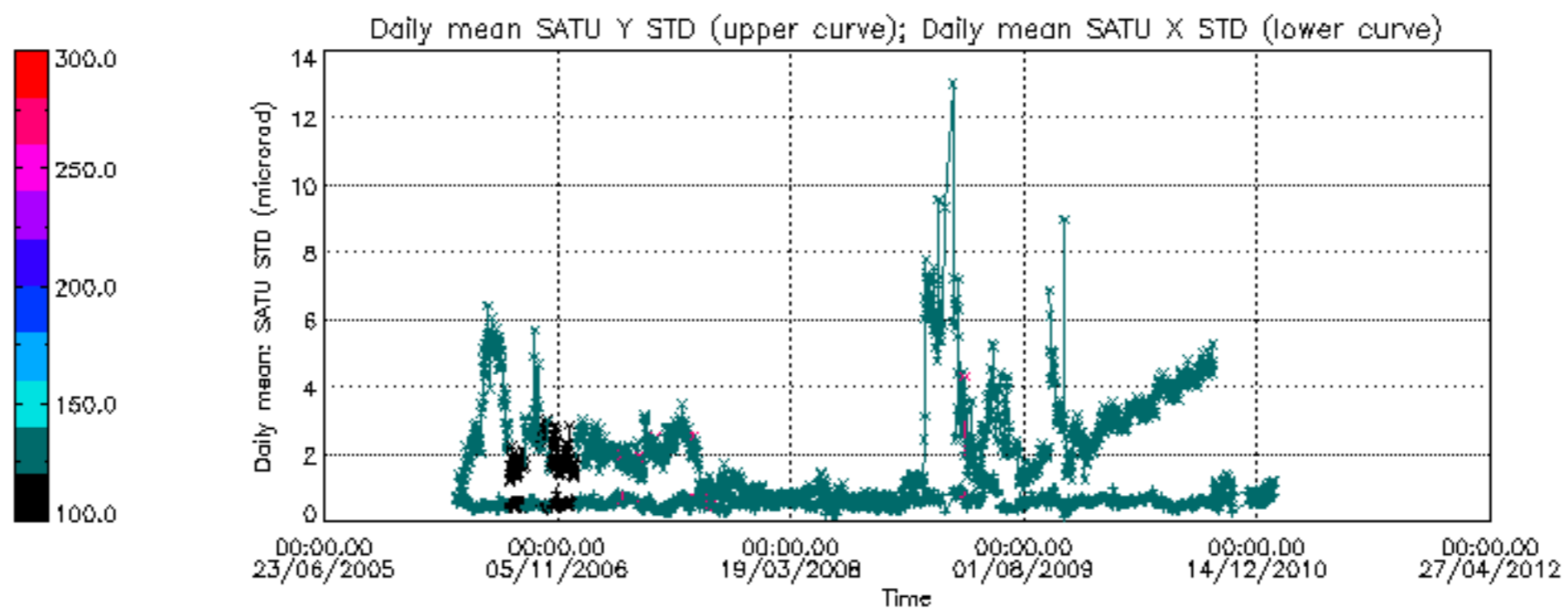


Tangent altitude at which the star is lost









/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
50;	8565.6;	01-JAN-2011	03:59:18;	Bright;	;	38.5;	107;	37The Aur	;	2.65;	11000;	occ;	77;	0;	46211
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
17; 739.0; 01-JAN-2011 05:09:19; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;46212
18; 909.7; 01-JAN-2011 05:12:10; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;46212
19; 1040.6; 01-JAN-2011 05:14:21; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;46212
20; 1164.3; 01-JAN-2011 05:16:25; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;46212
21; 1331.7; 01-JAN-2011 05:19:12; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;46212
22; 1423.6; 01-JAN-2011 05:20:44; Dark ; 45.5; 179; 240mi2CMA ; 3.03; 24000;occ; 91; 0;46212
23; 1570.7; 01-JAN-2011 05:23:11; Dark ; 54.0; 1; 9Alp CMA ; -1.44; 11000;occ; 108; 0;46212
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
31; 3671.7; 01-JAN-2011 05:58:12; Bright; 11.5; 60; 7Bet UMi ; 2.08; 3950;occ; 23; 0;46212
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 1; 914.1; 01-JAN-2011 20:14:21; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;46221
 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
 6; 1571.8; 01-JAN-2011 20:25:19; Dark ; 51.5; 1; 9Alp CMA ; -1.44; 11000;occ; 103; 0;46221
 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
10; 2210.9; 01-JAN-2011 20:35:58; Dark ; 62.0; 44; 24Gam Gem ; 1.93; 11000;occ; 124; 0;46221
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 3; 2019.0; 02-JAN-2011 13:15:06; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;46231
 4; 2207.9; 02-JAN-2011 13:18:15; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;46231
 5; 2306.2; 02-JAN-2011 13:19:53; Bright; 49.0; 151; 13Mu Gem ; 2.89; 3000;occ; 98; 0;46231
 6; 2546.8; 02-JAN-2011 13:23:54; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;46231
 7; 2675.9; 02-JAN-2011 13:26:03; Bright; 43.5; 6; 13Alp Aur ; 0.08; 3400;occ; 87; 0;46231
 8; 3669.7; 02-JAN-2011 13:42:36; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;46231
 9; 3880.5; 02-JAN-2011 13:46:07; Bright; 50.0; 32; 77Eps UMa ; 1.76; 11000;occ; 100; 0;46231
 10; 4082.3; 02-JAN-2011 13:49:29; Bright; 45.0; 39; 85Eta UMa ; 1.85; 24000;occ; 90; 0;46231
 11; 4331.6; 02-JAN-2011 13:53:38; Bright; 62.5; 180; 27Gam Boo ; 3.04; 8000;occ; 125; 0;46231
 12; 4556.6; 02-JAN-2011 13:57:23; Bright; 45.0; 83; ; 2.38; 11000;occ; 90; 0;46231
 13; 4757.0; 02-JAN-2011 14:00:44; Bright; 55.0; 3; 16Alp Boo ; -0.05; 4250;occ; 110; 0;46231
 14; 4874.8; 02-JAN-2011 14:02:42; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;46231
 15; 5181.1; 02-JAN-2011 14:07:48; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;46231
 16; 5343.0; 02-JAN-2011 14:10:30; Dark ; 48.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 96; 0;46231
 17; 5757.9; 02-JAN-2011 14:17:25; Dark ; 45.0; 54; 5The Cen ; 2.06; 4500;occ; 90; 0;46231
 18; 5920.8; 02-JAN-2011 14:20:08; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;46231
 19; 6023.8; 02-JAN-2011 14:21:51; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;46232
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 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
 24; 6763.8; 02-JAN-2011 14:34:11; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;46232
 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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 5; 2207.3; 02-JAN-2011 14:58:28; Dark ; 47.5; 44; 24Gam Gem ; 1.93; 11000;occ; 95; 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
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 15; 4875.1; 02-JAN-2011 15:42:56; Bright; 50.5; 102; 24Alp Ser ; 2.60; 4250;occ; 101; 0;46232
 16; 5181.6; 02-JAN-2011 15:48:02; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;46232
 17; 5343.8; 02-JAN-2011 15:50:45; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;46232
 18; 5758.7; 02-JAN-2011 15:57:39; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;46232
 19; 5921.5; 02-JAN-2011 16:00:22; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;46232
 20; 6024.6; 02-JAN-2011 16:02:05; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;46233
 21; 6135.0; 02-JAN-2011 16:03:56; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;46233
 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
 28; 7185.9; 02-JAN-2011 16:21:27; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 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
 7; 495.2; 03-JAN-2011 00:31:20; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46238
 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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 12; 1173.5; 03-JAN-2011 00:42:38; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;46238
 13; 1338.2; 03-JAN-2011 00:45:23; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;46238
 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
 24; 4331.7; 03-JAN-2011 01:35:17; Bright; 49.0; 180; 27Gam Boo ; 3.04; 8000;occ; 98; 0;46238
 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
 14; 1338.7; 03-JAN-2011 02:25:38; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;46239
 15; 1429.5; 03-JAN-2011 02:27:08; Dark ; 43.5; 179; 240mi2CMA ; 3.03; 24000;occ; 87; 0;46239
 16; 1573.9; 03-JAN-2011 02:29:33; Dark ; 49.5; 1; 9Alp CMA ; -1.44; 11000;occ; 99; 0;46239
 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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 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
 9; -665.9; 03-JAN-2011 03:32:27; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;46239
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 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

17; 754.1; 03-JAN-2011 03:56:07; Dark ; 45.5; 46; Del Vel ; 1.95; 10600;occ; 91; 0;46240
 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
 27; 2544.9; 03-JAN-2011 04:25:58; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;46240
 28; 2675.5; 03-JAN-2011 04:28:08; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;46240
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 3; -1933.9; 03-JAN-2011 04:51:33; Bright; 68.0; 39; 85Eta UMa ; 1.85; 24000;occ; 136; 0;46240
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 11; -87.6; 03-JAN-2011 05:22:19; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;46240
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 13; 127.7; 03-JAN-2011 05:25:55; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;46241
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 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
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11; 5087.4; 17-JAN-2011 08:15:46; Bright; 57.0; 120; 1Del Oph ; 2.73; 3200;occ; 114; 0;46443
12; 5317.7; 17-JAN-2011 08:19:36; Dark ; 51.0; 104; 27Bet Lib ; 2.61; 13100;occ; 102; 0;46443
13; 5424.7; 17-JAN-2011 08:21:23; Dark ; 42.0; 80; 7Del Sco ; 2.32; 30000;occ; 84; 0;46443
14; 5519.2; 17-JAN-2011 08:22:58; Dark ; 51.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 103; 0;46443
15; 5752.3; 17-JAN-2011 08:26:51; Dark ; 41.0; 131; Gam Lup ; 2.80; 26000;occ; 82; 0;46443
16; 5860.5; 17-JAN-2011 08:28:39; Dark ; 44.0; 109; Bet Lup ; 2.68; 26000;occ; 88; 0;46443
17; 5949.4; 17-JAN-2011 08:30:08; Dark ; 54.0; 54; 5The Cen ; 2.06; 4500;occ; 108; 0;46443
18; 6076.6; 17-JAN-2011 08:32:15; Dark ; 43.5; 95; Zet Cen ; 2.55; 26000;occ; 87; 0;46444
19; 6162.1; 17-JAN-2011 08:33:41; Dark ; 45.0; 77; Eps Cen ; 2.30; 28000;occ; 90; 0;46444
20; 6364.1; 17-JAN-2011 08:37:03; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;46444
21; 6444.4; 17-JAN-2011 08:38:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46444
22; 6679.3; 17-JAN-2011 08:42:18; Dark ; 53.5; 113; Mu Vel ; 2.69; 5000;occ; 107; 0;46444
23; 6798.6; 17-JAN-2011 08:44:17; Dark ; 41.0; 91; Kap Vel ; 2.49; 26000;occ; 82; 0;46444
24; 7023.4; 17-JAN-2011 08:48:02; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;46444
25; 7151.0; 17-JAN-2011 08:50:09; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;46444
26; 7374.4; 17-JAN-2011 08:53:53; Dark ; 42.5; 88; 31Eta CMa ; 2.45; 20000;occ; 85; 0;46444

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3; 2277.5; 17-JAN-2011 09:09:10; Bright; 39.5; 151; 13Mu Gem ; 2.89; 3000;occ; 79; 0;46444
4; 2438.7; 17-JAN-2011 09:11:51; Bright; 45.0; 17; 78Bet Gem ; 1.16; 4500;occ; 90; 0;46444
5; 3412.3; 17-JAN-2011 09:28:05; Bright; 31.0; 36; 50Alp UMa ; 1.80; 6300;occ; 62; 0;46444
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9; 4571.4; 17-JAN-2011 09:47:24; Bright; 65.0; 67; 5Alp CrB ; 2.22; 11000;occ; 130; 0;46444
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11; 5087.8; 17-JAN-2011 09:56:00; Bright; 58.0; 120; 1Del Oph ; 2.73; 3200;occ; 116; 0;46444
12; 5318.7; 17-JAN-2011 09:59:51; Dark ; 49.5; 104; 27Bet Lib ; 2.61; 13100;occ; 99; 0;46444
13; 5425.2; 17-JAN-2011 10:01:38; Dark ; 47.0; 80; 7Del Sco ; 2.32; 30000;occ; 94; 0;46444
14; 5520.3; 17-JAN-2011 10:03:13; Dark ; 50.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 101; 0;46444
15; 5753.0; 17-JAN-2011 10:07:05; Dark ; 40.5; 131; Gam Lup ; 2.80; 26000;occ; 81; 0;46444
16; 5861.2; 17-JAN-2011 10:08:54; Dark ; 41.0; 109; Bet Lup ; 2.68; 26000;occ; 82; 0;46444
17; 5950.4; 17-JAN-2011 10:10:23; Dark ; 54.5; 54; 5The Cen ; 2.06; 4500;occ; 109; 0;46444
18; 6077.3; 17-JAN-2011 10:12:30; Dark ; 43.0; 95; Zet Cen ; 2.55; 26000;occ; 86; 0;46445
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21; 6445.3; 17-JAN-2011 10:18:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46445
22; 6680.1; 17-JAN-2011 10:22:33; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;46445
23; 6799.1; 17-JAN-2011 10:24:32; Dark ; 39.5; 91; Kap Vel ; 2.49; 26000;occ; 79; 0;46445
24; 7023.7; 17-JAN-2011 10:28:16; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;46445
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26; 7374.6; 17-JAN-2011 10:34:07; Dark ; 43.5; 88; 31Eta CMa ; 2.45; 20000;occ; 87; 0;46445

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4; 2438.0; 17-JAN-2011 10:52:04; Bright; 46.0; 17; 78Bet Gem ; 1.16; 4500;occ; 92; 0;46445
5; 3411.4; 17-JAN-2011 11:08:18; Bright; 31.0; 36; 50Alp UMa ; 1.80; 6300;occ; 62; 0;46445
6; 3638.6; 17-JAN-2011 11:12:05; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;46445
7; 3900.7; 17-JAN-2011 11:16:27; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;46445
8; 4436.4; 17-JAN-2011 11:25:23; Bright; 55.0; 133; 40Zet Her ; 2.81; 6000;occ; 110; 0;46445
9; 4571.6; 17-JAN-2011 11:27:38; Bright; 65.0; 67; 5Alp CrB ; 2.22; 11000;occ; 130; 0;46445
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11; 5088.3; 17-JAN-2011 11:36:15; Bright; 58.0; 120; 1Del Oph ; 2.73; 3200;occ; 116; 0;46445
12; 5319.5; 17-JAN-2011 11:40:06; Dark ; 51.5; 104; 27Bet Lib ; 2.61; 13100;occ; 103; 0;46445
13; 5425.8; 17-JAN-2011 11:41:52; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;46445
14; 5521.4; 17-JAN-2011 11:43:28; Dark ; 50.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 101; 0;46445
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16; 5861.8; 17-JAN-2011 11:49:08; Dark ; 41.5; 109; Bet Lup ; 2.68; 26000;occ; 83; 0;46445
17; 5951.4; 17-JAN-2011 11:50:38; Dark ; 50.5; 54; 5The Cen ; 2.06; 4500;occ; 101; 0;46445
18; 6078.1; 17-JAN-2011 11:52:45; Dark ; 44.0; 95; Zet Cen ; 2.55; 26000;occ; 88; 0;46446
19; 6163.5; 17-JAN-2011 11:54:10; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;46446
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21; 6446.2; 17-JAN-2011 11:58:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46446
 22; 6680.8; 17-JAN-2011 12:02:47; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;46446
 23; 6799.5; 17-JAN-2011 12:04:46; Dark ; 40.5; 91; Kap Vel ; 2.49; 26000;occ; 81; 0;46446
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 3; 2327.2; 17-JAN-2011 12:30:28; Bright; 40.5; 170; 27Eps Gem ; 3.00; 9700;occ; 81; 0;46446
 4; 2437.3; 17-JAN-2011 12:32:18; Bright; 46.5; 17; 78Bet Gem ; 1.16; 4500;occ; 93; 0;46446
 5; 3410.9; 17-JAN-2011 12:48:31; Bright; 32.0; 36; 50Alp UMa ; 1.80; 6300;occ; 64; 0;46446
 6; 3638.7; 17-JAN-2011 12:52:19; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;46446
 7; 3900.6; 17-JAN-2011 12:56:41; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;46446
 8; 4436.7; 17-JAN-2011 13:05:37; Bright; 55.0; 133; 40Zet Her ; 2.81; 6000;occ; 110; 0;46446
 9; 4571.8; 17-JAN-2011 13:07:52; Bright; 66.0; 67; 5Alp CrB ; 2.22; 11000;occ; 132; 0;46446
 10; 4963.2; 17-JAN-2011 13:14:24; Bright; 44.5; 102; 24Alp Ser ; 2.60; 4250;occ; 89; 0;46446
 11; 5088.7; 17-JAN-2011 13:16:29; Bright; 58.0; 120; 1Del Oph ; 2.73; 3200;occ; 116; 0;46446
 12; 5320.4; 17-JAN-2011 13:20:21; Dark ; 49.5; 104; 27Bet Lib ; 2.61; 13100;occ; 99; 0;46446
 13; 5426.5; 17-JAN-2011 13:22:07; Dark ; 47.0; 80; 7Del Sco ; 2.32; 30000;occ; 94; 0;46446
 14; 5522.5; 17-JAN-2011 13:23:43; Dark ; 54.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 109; 0;46446
 15; 5753.8; 17-JAN-2011 13:27:34; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;46446
 16; 5862.8; 17-JAN-2011 13:29:23; Dark ; 43.0; 109; Bet Lup ; 2.68; 26000;occ; 86; 0;46446
 17; 5952.4; 17-JAN-2011 13:30:53; Dark ; 50.0; 54; 5The Cen ; 2.06; 4500;occ; 100; 0;46446
 18; 6079.0; 17-JAN-2011 13:32:59; Dark ; 44.0; 95; Zet Cen ; 2.55; 26000;occ; 88; 0;46447
 19; 6164.2; 17-JAN-2011 13:34:25; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;46447
 20; 6365.7; 17-JAN-2011 13:37:46; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;46447
 21; 6447.2; 17-JAN-2011 13:39:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46447
 22; 6681.6; 17-JAN-2011 13:43:02; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;46447
 23; 6800.1; 17-JAN-2011 13:45:00; Dark ; 41.5; 91; Kap Vel ; 2.49; 26000;occ; 83; 0;46447
 24; 7024.5; 17-JAN-2011 13:48:45; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;46447
 25; 7152.1; 17-JAN-2011 13:50:52; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;46447
 26; 7375.1; 17-JAN-2011 13:54:36; Dark ; 42.0; 88; 31Eta CMA ; 2.45; 20000;occ; 84; 0;46447

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 3; 2327.2; 17-JAN-2011 14:10:42; Bright; 41.0; 170; 27Eps Gem ; 3.00; 9700;occ; 82; 0;46447
 4; 2437.2; 17-JAN-2011 14:12:32; Bright; 47.0; 17; 78Bet Gem ; 1.16; 4500;occ; 94; 0;46447
 5; 3638.5; 17-JAN-2011 14:32:33; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;46447
 6; 3900.6; 17-JAN-2011 14:36:55; Bright; 55.0; 119; 14Eta Dra ; 2.73; 4700;occ; 110; 0;46447
 7; 4437.1; 17-JAN-2011 14:45:51; Bright; 55.0; 133; 40Zet Her ; 2.81; 6000;occ; 110; 0;46447
 8; 4572.2; 17-JAN-2011 14:48:07; Bright; 66.0; 67; 5Alp CrB ; 2.22; 11000;occ; 132; 0;46447
 9; 4963.7; 17-JAN-2011 14:54:38; Bright; 64.0; 102; 24Alp Ser ; 2.60; 4250;occ; 128; 0;46447
 10; 5089.4; 17-JAN-2011 14:56:44; Bright; 42.0; 120; 1Del Oph ; 2.73; 3200;occ; 84; 0;46447
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 12; 5427.1; 17-JAN-2011 15:02:21; Dark ; 43.0; 80; 7Del Sco ; 2.32; 30000;occ; 86; 0;46447
 13; 5523.8; 17-JAN-2011 15:03:58; Dark ; 51.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 102; 0;46447
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 17; 6079.9; 17-JAN-2011 15:13:14; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;46448
 18; 6164.9; 17-JAN-2011 15:14:39; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;46448
 19; 6366.3; 17-JAN-2011 15:18:01; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;46448
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 22; 6800.6; 17-JAN-2011 15:25:15; Dark ; 41.5; 91; Kap Vel ; 2.49; 26000;occ; 83; 0;46448
 23; 7024.8; 17-JAN-2011 15:28:59; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;46448
 24; 7152.4; 17-JAN-2011 15:31:07; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;46448
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 4; 2326.9; 17-JAN-2011 15:50:55; Bright; 38.0; 170; 27Eps Gem ; 3.00; 9700;occ; 76; 0;46448
 5; 2436.6; 17-JAN-2011 15:52:45; Bright; 45.5; 17; 78Bet Gem ; 1.16; 4500;occ; 91; 0;46448
 6; 3409.4; 17-JAN-2011 16:08:58; Bright; 33.0; 36; 50Alp UMa ; 1.80; 6300;occ; 66; 0;46448
 7; 3638.3; 17-JAN-2011 16:12:47; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46448
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 11; 4964.2; 17-JAN-2011 16:34:53; Bright; 64.0; 102; 24Alp Ser ; 2.60; 4250;occ; 128; 0;46448
 12; 5089.7; 17-JAN-2011 16:36:58; Bright; 58.0; 120; 1Del Oph ; 2.73; 3200;occ; 116; 0;46448
 13; 5322.1; 17-JAN-2011 16:40:51; Dark ; 51.0; 104; 27Bet Lib ; 2.61; 13100;occ; 102; 0;46448
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 18; 5954.6; 17-JAN-2011 16:51:23; Dark ; 51.0; 54; 5The Cen ; 2.06; 4500;occ; 102; 0;46448
 19; 6080.9; 17-JAN-2011 16:53:29; Dark ; 44.0; 95; Zet Cen ; 2.55; 26000;occ; 88; 0;46449
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 21; 6366.9; 17-JAN-2011 16:58:15; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;46449
 22; 6449.2; 17-JAN-2011 16:59:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46449
 23; 6683.2; 17-JAN-2011 17:03:32; Dark ; 50.0; 113; Mu Vel ; 2.69; 5000;occ; 100; 0;46449
 24; 6801.1; 17-JAN-2011 17:05:29; Dark ; 40.5; 91; Kap Vel ; 2.49; 26000;occ; 81; 0;46449
 25; 7025.2; 17-JAN-2011 17:09:14; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;46449
 26; 7152.8; 17-JAN-2011 17:11:21; Dark ; 25.5; 70; Zet Pup ; 2.25; 39000;occ; 51; 0;46449

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 3; 1994.2; 17-JAN-2011 17:25:37; Dark ; 60.5; 8; 10Alp CMi ; 0.40; 6500;occ; 121; 0;46449
 4; 2173.8; 17-JAN-2011 17:28:36; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;46449
 5; 2326.6; 17-JAN-2011 17:31:09; Bright; 39.5; 170; 27Eps Gem ; 3.00; 9700;occ; 79; 0;46449
 6; 2436.1; 17-JAN-2011 17:32:59; Bright; 47.0; 17; 78Bet Gem ; 1.16; 4500;occ; 94; 0;46449
 7; 3408.6; 17-JAN-2011 17:49:11; Bright; 33.0; 36; 50Alp UMA ; 1.80; 6300;occ; 66; 0;46449
 8; 3638.0; 17-JAN-2011 17:53:00; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;46449
 9; 3900.3; 17-JAN-2011 17:57:23; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;46449
 10; 4437.0; 17-JAN-2011 18:06:20; Bright; 45.0; 133; 40Zet Her ; 2.81; 6000;occ; 90; 0;46449
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 12; 4964.8; 17-JAN-2011 18:15:07; Bright; 64.0; 102; 24Alp Ser ; 2.60; 4250;occ; 128; 0;46449
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