

GOMOS Daily Report 27-JAN-2010

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	30JAN2010 04:53:17
Data source version	GOMOS/5.00L04
Start time of products	27JAN2010 00:00:14
Stop time of products	27JAN2010 23:56:57
Store outputs in DB	Yes
Nb of level 1b prods	167
Nb of prods with errors	2

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

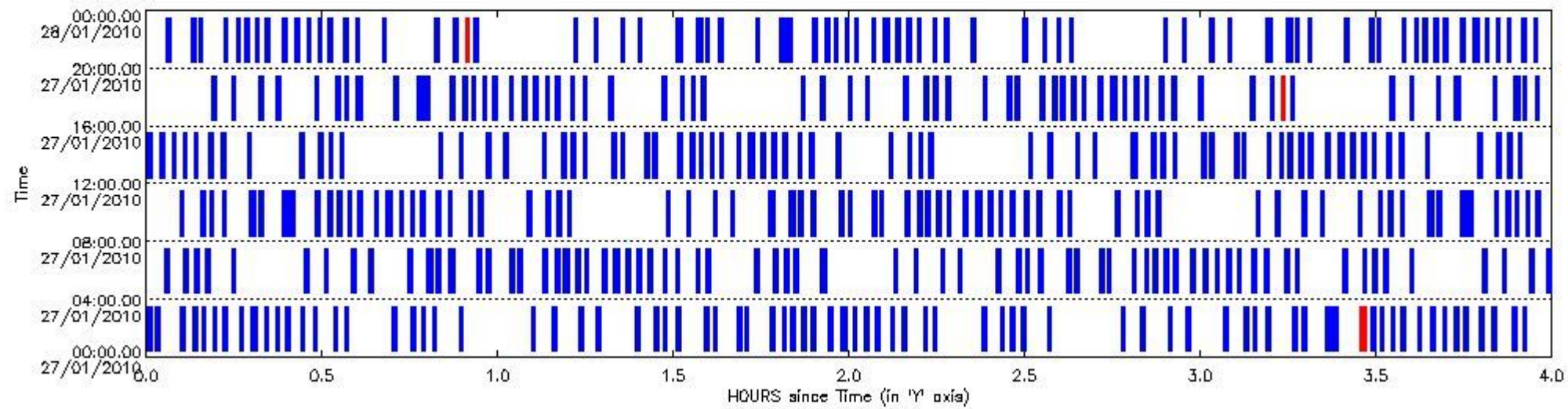
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 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)

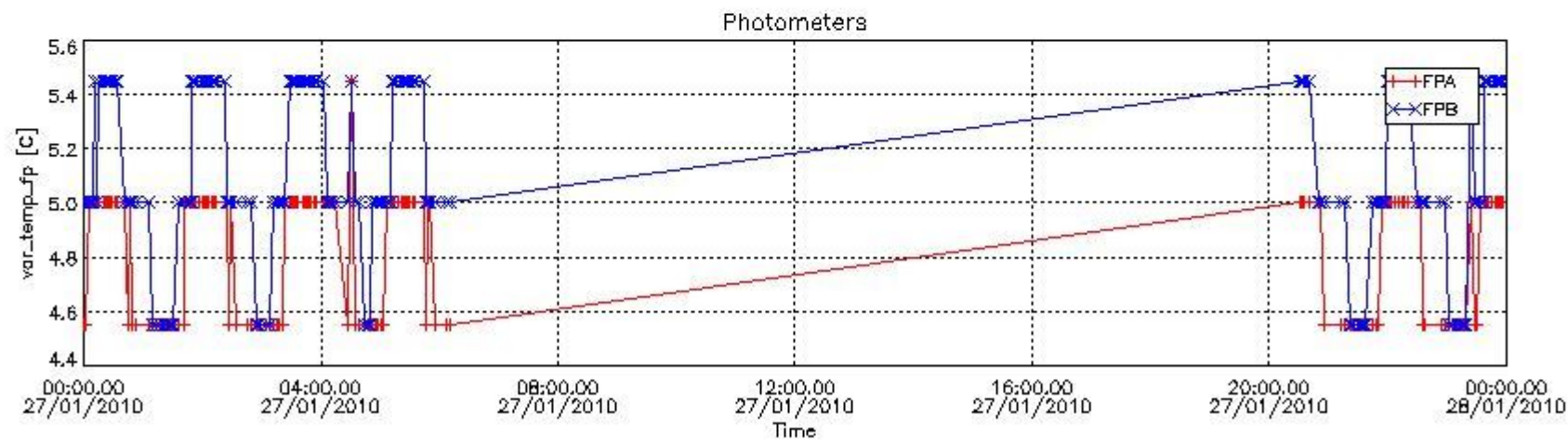
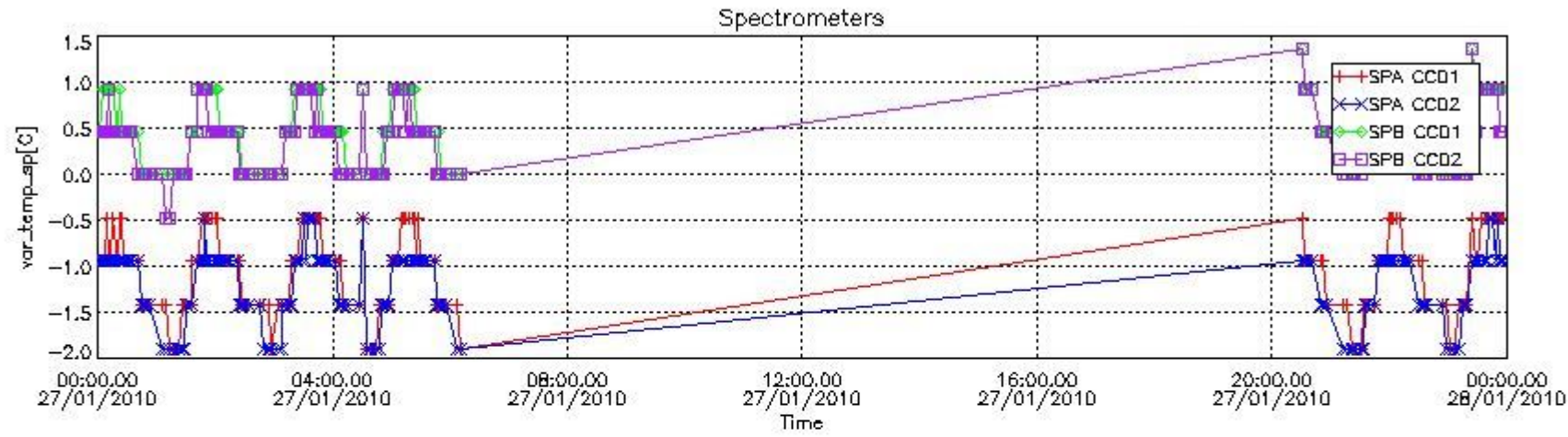
UTC start time	Star name	Star ID	Orbit
27-JAN-2010 03:27:11	GamLup	131	41354
27-JAN-2010 19:13:44	13MuGem	151	41364
27-JAN-2010 20:54:27	13MuGem	151	41365

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_1PNPDE20100127_000014_000000492086_00216_41352_6958.N1	27-JAN-2010 00:00:14	Dark	48.500	16	21Alp Sco	1.0200	3000.0	97	41352	No
2	GOM_TRA_1PNPDE20100127_000135_000000462086_00216_41352_6959.N1	27-JAN-2010 00:01:35	Dark	45.500	75	26Eps Sco	2.2910	4250.0	91	41352	No
3	GOM_TRA_1PNPDE20100127_000552_000000442086_00216_41352_6960.N1	27-JAN-2010 00:05:52	Dark	43.500	131	Gam Lup	2.8000	26000.	87	41352	No
4	GOM_TRA_1PNPDE20100127_000758_000000432086_00216_41352_6961.N1	27-JAN-2010 00:07:58	Dark	43.000	109	Bet Lup	2.6770	26000.	86	41352	No
5	GOM_TRA_1PNPDE20100127_000925_000000452086_00217_41353_6962.N1	27-JAN-2010 00:09:25	Dark	44.500	78	Alp Lup	2.3040	28000.	89	41353	No
6	GOM_TRA_1PNPDE20100127_001120_000000452086_00217_41353_6963.N1	27-JAN-2010 00:11:20	Dark	45.000	4	Alp1Cen	-0.010000	5800.0	90	41353	No
7	GOM_TRA_1PNPDE20100127_001258_000000442086_00217_41353_6964.N1	27-JAN-2010 00:12:58	Dark	44.000	77	Eps Cen	2.3030	28000.	88	41353	No
8	GOM_TRA_1PNPDE20100127_001555_000000422086_00217_41353_6965.N1	27-JAN-2010 00:15:55	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	41353	No

127	GOM_TRA_1PNPDE20100127_214401_000000442086_00229_41365_7136.N1	27-JAN-2010 21:44:01	Twilight	43.500	86	35Eta Oph	2.4300	10200.	87	41365	No
128	GOM_TRA_1PNPDE20100127_214808_000000572086_00229_41365_7137.N1	27-JAN-2010 21:48:08	Dark	57.000	16	21Alp Sco	1.0200	3000.0	114	41365	No
129	GOM_TRA_1PNPDE20100127_214928_000000452086_00229_41365_7138.N1	27-JAN-2010 21:49:28	Dark	44.500	75	26Eps Sco	2.2910	4250.0	89	41365	No
130	GOM_TRA_1PNPDE20100127_215349_000000412086_00229_41365_7139.N1	27-JAN-2010 21:53:49	Dark	41.000	131	Gam Lup	2.8000	26000.	82	41365	No
131	GOM_TRA_1PNPDE20100127_215556_000000442086_00229_41365_7140.N1	27-JAN-2010 21:55:56	Dark	43.500	109	Bet Lup	2.6770	26000.	87	41365	No
132	GOM_TRA_1PNPDE20100127_215723_000000432086_00230_41366_7141.N1	27-JAN-2010 21:57:23	Dark	43.000	78	Alp Lup	2.3040	28000.	86	41366	No
133	GOM_TRA_1PNPDE20100127_215914_000000422086_00230_41366_7142.N1	27-JAN-2010 21:59:14	Dark	42.000	4	Alp1Cen	-0.010000	5800.0	84	41366	No
134	GOM_TRA_1PNPDE20100127_220056_000000422086_00230_41366_7143.N1	27-JAN-2010 22:00:56	Dark	42.000	77	Eps Cen	2.3030	28000.	84	41366	No
135	GOM_TRA_1PNPDE20100127_220349_000000442086_00230_41366_7144.N1	27-JAN-2010 22:03:49	Dark	43.500	12	Alp1Cru	0.77500	30000.	87	41366	No
136	GOM_TRA_1PNPDE20100127_220759_000000412086_00230_41366_7145.N1	27-JAN-2010 22:07:59	Dark	40.500	159	Ups Car	2.9200	7200.0	81	41366	No
137	GOM_TRA_1PNPDE20100127_220954_000000412086_00230_41366_7146.N1	27-JAN-2010 22:09:54	Dark	40.500	71	lot Car	2.2460	7700.0	81	41366	No
138	GOM_TRA_1PNPDE20100127_221141_000000412086_00230_41366_7147.N1	27-JAN-2010 22:11:41	Dark	41.000	46	Del Vel	1.9540	10600.	82	41366	No
139	GOM_TRA_1PNPDE20100127_221415_000000412086_00230_41366_7148.N1	27-JAN-2010 22:14:15	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	41366	No
140	GOM_TRA_1PNPDE20100127_221621_000000402086_00230_41366_7149.N1	27-JAN-2010 22:16:21	Straylight	39.500	70	Zet Pup	2.2460	39000.	79	41366	No
141	GOM_TRA_1PNPDE20100127_222051_000000422086_00230_41366_7150.N1	27-JAN-2010 22:20:51	Straylight	41.500	37	25Del CMa	1.8300	5900.0	83	41366	No
142	GOM_TRA_1PNPDE20100127_222944_000000482086_00230_41366_7151.N1	27-JAN-2010 22:29:44	Twilight	48.000	8	10Alp CMi	0.40000	6500.0	96	41366	No
143	GOM_TRA_1PNPDE20100127_223302_000000392086_00230_41366_7152.N1	27-JAN-2010 22:33:02	Bright	39.000	44	24Gam Gem	1.9280	11000.	78	41366	No
144	GOM_TRA_1PNPDE20100127_223527_000000382086_00230_41366_7153.N1	27-JAN-2010 22:35:27	Bright	37.500	170	27Eps Gem	3.0000	9700.0	75	41366	No
145	GOM_TRA_1PNPDE20100127_223735_000000402086_00230_41366_7154.N1	27-JAN-2010 22:37:35	Bright	39.500	24	66Alp Gem	1.5800	10200.	79	41366	No
146	GOM_TRA_1PNPDE20100127_225338_000000372086_00230_41366_7155.N1	27-JAN-2010 22:53:38	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	41366	No
147	GOM_TRA_1PNPDE20100127_225658_000000362086_00230_41366_7156.N1	27-JAN-2010 22:56:58	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	41366	No
148	GOM_TRA_1PNPDE20100127_230136_000000422086_00230_41366_7157.N1	27-JAN-2010 23:01:36	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	41366	No
149	GOM_TRA_1PNPDE20100127_230437_000000382086_00230_41366_7158.N1	27-JAN-2010 23:04:37	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	41366	No
150	GOM_TRA_1PNPDE20100127_231110_000000602086_00230_41366_7159.N1	27-JAN-2010 23:11:10	Bright	60.000	133	40Zet Her	2.8070	6000.0	120	41366	No
151	GOM_TRA_1PNPDE20100127_231437_000000622086_00230_41366_7160.N1	27-JAN-2010 23:14:37	Bright	62.000	127	27Bet Her	2.7810	4700.0	124	41366	No
152	GOM_TRA_1PNPDE20100127_231612_000000362086_00230_41366_7161.N1	27-JAN-2010 23:16:12	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	41366	No
153	GOM_TRA_1PNPDE20100127_231819_000000412086_00230_41366_7162.N1	27-JAN-2010 23:18:19	Bright	41.000	126	60Bet Oph	2.7700	4250.0	82	41366	No
154	GOM_TRA_1PNPDE20100127_232438_000000422086_00230_41366_7163.N1	27-JAN-2010 23:24:38	Twilight	42.000	86	35Eta Oph	2.4300	10200.	84	41366	Yes
155	GOM_TRA_1PNPDE20100127_232845_000000492086_00230_41366_7164.N1	27-JAN-2010 23:28:45	Dark	49.000	16	21Alp Sco	1.0200	3000.0	98	41366	No
156	GOM_TRA_1PNPDE20100127_233004_000000452086_00230_41366_7165.N1	27-JAN-2010 23:30:04	Dark	45.000	75	26Eps Sco	2.2910	4250.0	90	41366	No
157	GOM_TRA_1PNPDE20100127_233425_000000422086_00230_41366_7166.N1	27-JAN-2010 23:34:25	Dark	42.000	131	Gam Lup	2.8000	26000.	84	41366	No
158	GOM_TRA_1PNPDE20100127_233632_000000432086_00230_41366_7167.N1	27-JAN-2010 23:36:32	Dark	43.000	109	Bet Lup	2.6770	26000.	86	41366	No
159	GOM_TRA_1PNPDE20100127_233800_000000432086_00231_41367_7168.N1	27-JAN-2010 23:38:00	Dark	43.000	78	Alp Lup	2.3040	28000.	86	41367	No
160	GOM_TRA_1PNPDE20100127_233950_000000462086_00231_41367_7169.N1	27-JAN-2010 23:39:50	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	41367	No
161	GOM_TRA_1PNPDE20100127_234132_000000432086_00231_41367_7170.N1	27-JAN-2010 23:41:32	Dark	42.500	77	Eps Cen	2.3030	28000.	85	41367	No
162	GOM_TRA_1PNPDE20100127_234425_000000452086_00231_41367_7171.N1	27-JAN-2010 23:44:25	Dark	45.000	12	Alp1Cru	0.77500	30000.	90	41367	No
163	GOM_TRA_1PNPDE20100127_234835_000000382086_00231_41367_7172.N1	27-JAN-2010 23:48:35	Dark	37.500	159	Ups Car	2.9200	7200.0	75	41367	No
164	GOM_TRA_1PNPDE20100127_235030_000000412086_00231_41367_7173.N1	27-JAN-2010 23:50:30	Dark	41.000	71	lot Car	2.2460	7700.0	82	41367	No
165	GOM_TRA_1PNPDE20100127_235217_000000422086_00231_41367_7174.N1	27-JAN-2010 23:52:17	Dark	41.500	46	Del Vel	1.9540	10600.	83	41367	No
166	GOM_TRA_1PNPDE20100127_235451_000000422086_00231_41367_7175.N1	27-JAN-2010 23:54:51	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	41367	No
167	GOM_TRA_1PNPDE20100127_235657_000000402086_00231_41367_7176.N1	27-JAN-2010 23:56:57	Straylight	40.000	70	Zet Pup	2.2460	39000.	80	41367	No

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



4. Overview of dark signal processing per product

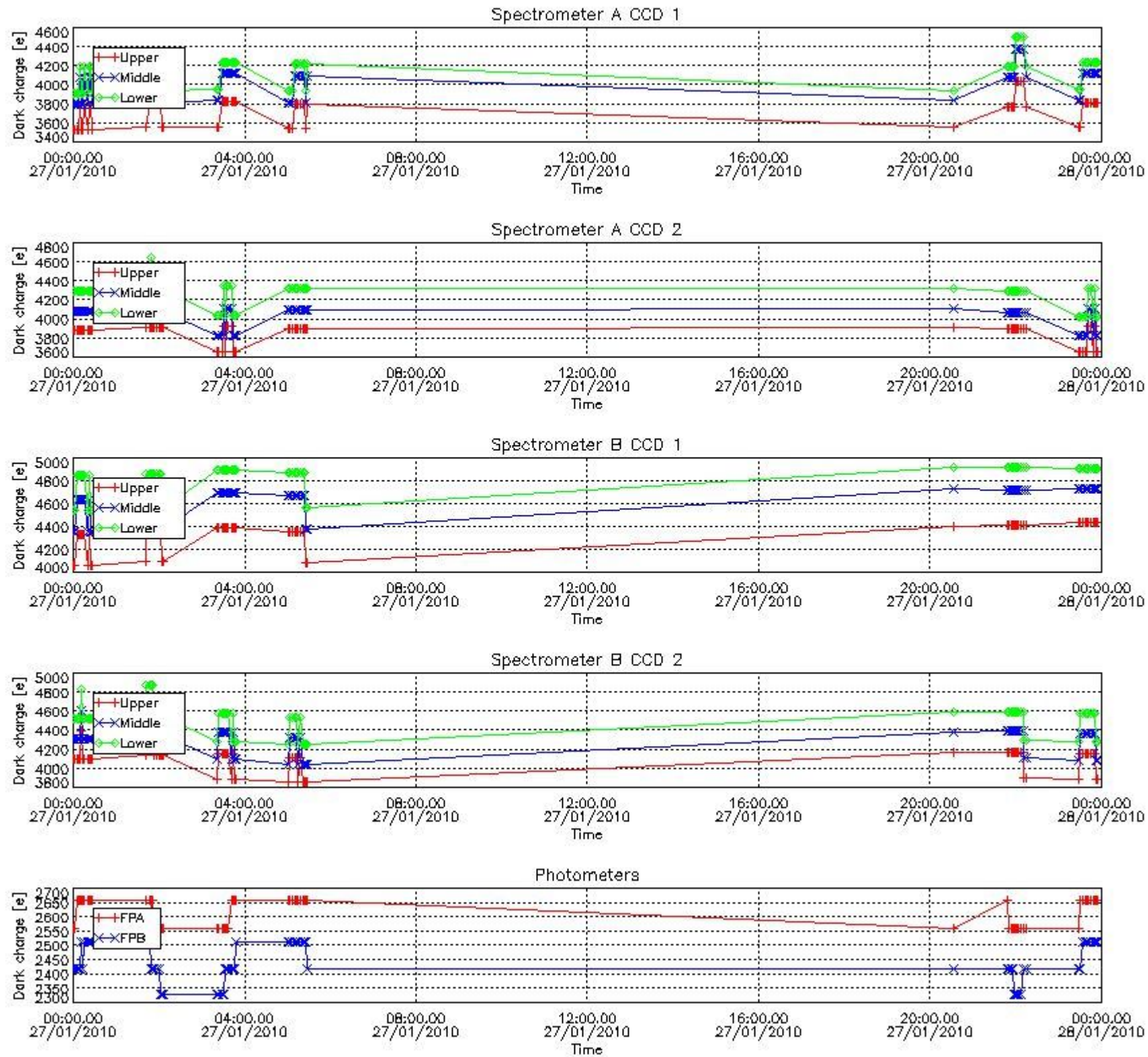
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100127_203104_000000392086_00229_41365_7119.N1	DC map with no T dep.
GOM_TRA_1PNPDE20100127_203339_000000432086_00229_41365_7120.N1	DC map used
GOM_TRA_1PNPDE20100127_203545_000000402086_00229_41365_7121.N1	DC map used
GOM_TRA_1PNPDE20100127_204015_000000442086_00229_41365_7122.N1	DC map used
GOM_TRA_1PNPDE20100127_204908_000000502086_00229_41365_7123.N1	DC map used
GOM_TRA_1PNPDE20100127_205226_000000402086_00229_41365_7124.N1	DC map used
GOM_TRA_1PNPDE20100127_205559_000000432086_00229_41365_7125.N1	DC map used
GOM_TRA_1PNPDE20100127_211302_000000382086_00229_41365_7126.N1	DC map used
GOM_TRA_1PNPDE20100127_211622_000000392086_00229_41365_7127.N1	DC map used
GOM_TRA_1PNPDE20100127_212101_000000402086_00229_41365_7128.N1	DC map used
GOM_TRA_1PNPDE20100127_212401_000000392086_00229_41365_7129.N1	DC map used
GOM_TRA_1PNPDE20100127_213033_000000592086_00229_41365_7130.N1	DC map used
GOM_TRA_1PNPDE20100127_213400_000000622086_00229_41365_7131.N1	DC map used
GOM_TRA_1PNPDE20100127_213536_000000362086_00229_41365_7132.N1	DC map used

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



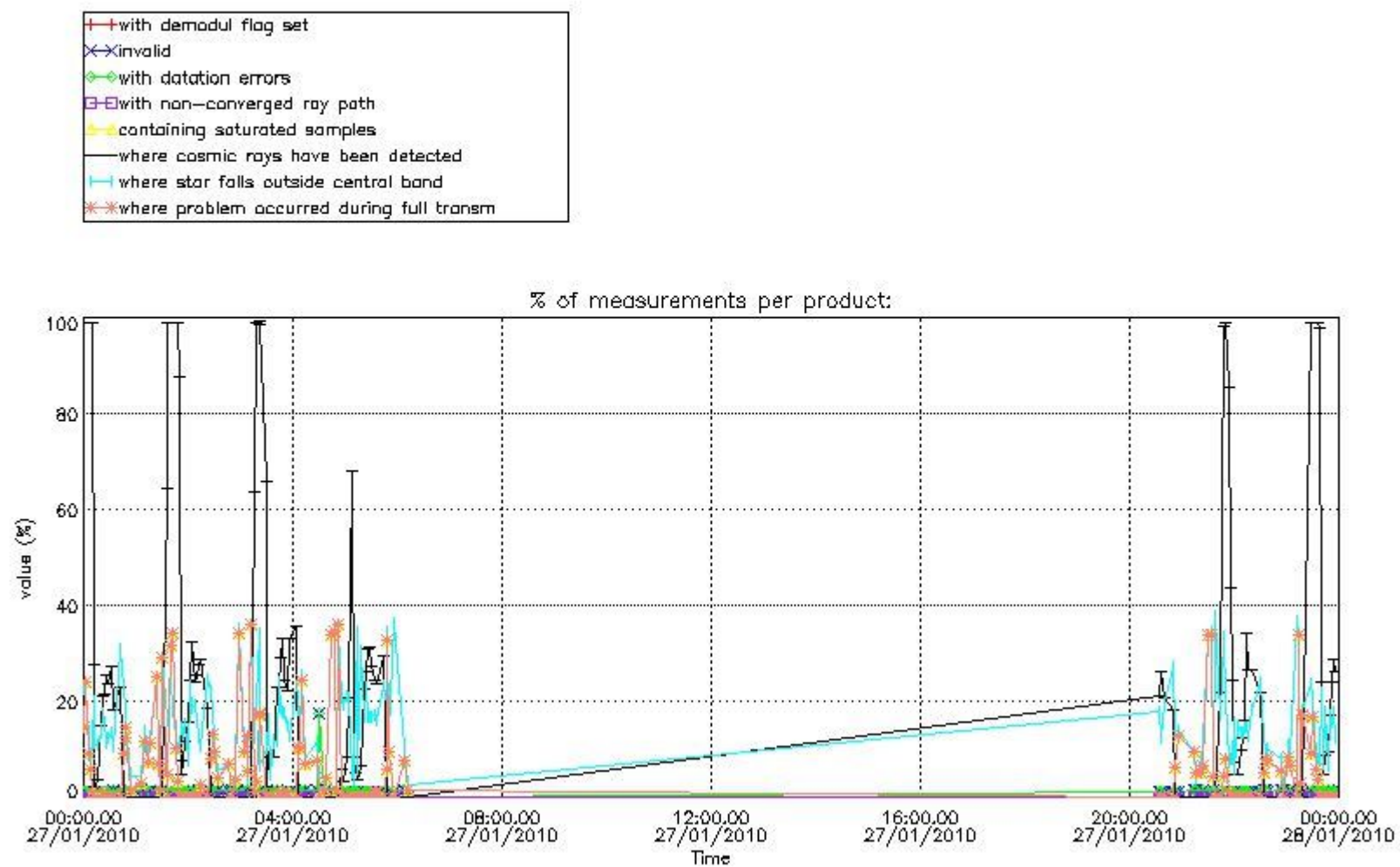
5. Demodulation flag and quality information monitoring

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.

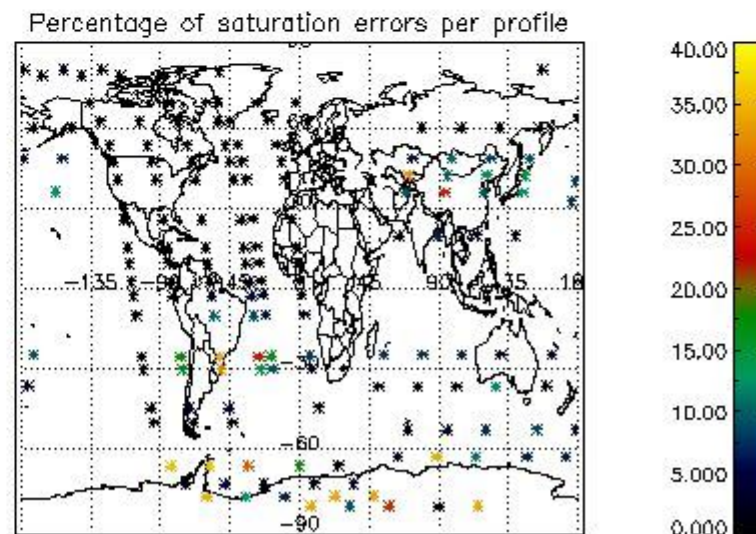
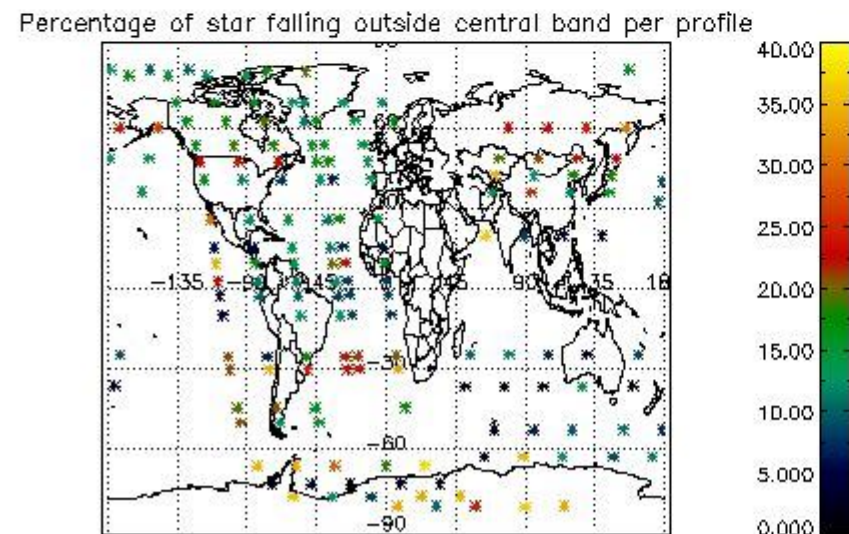
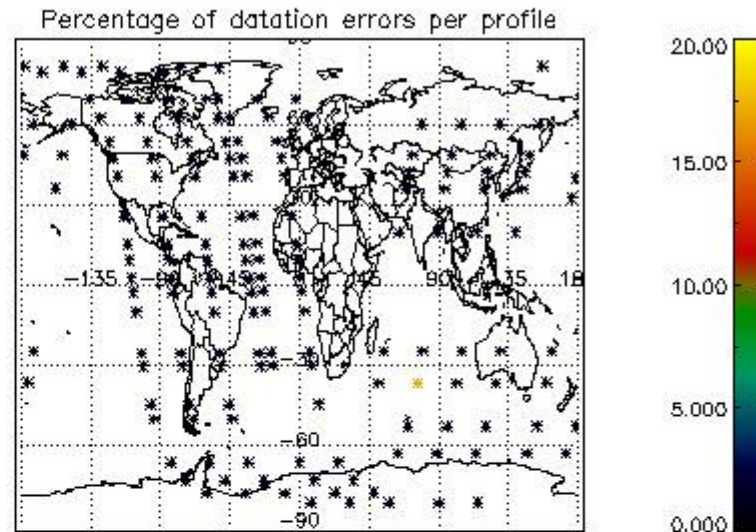
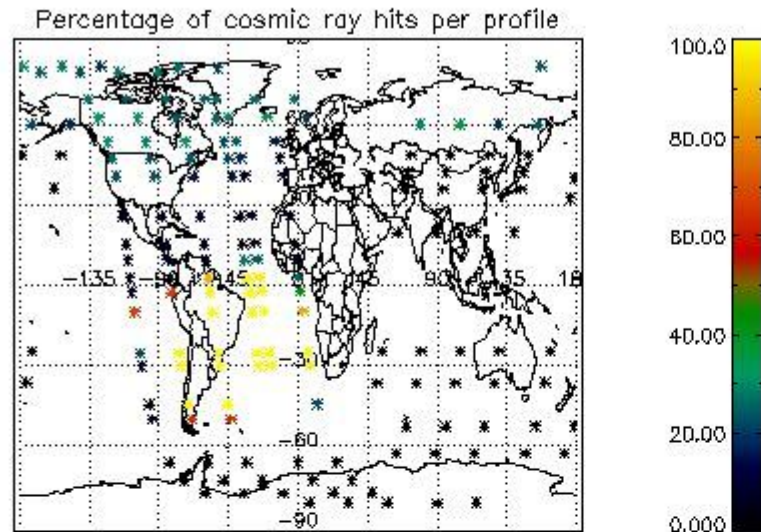
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	44.8485 %
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)



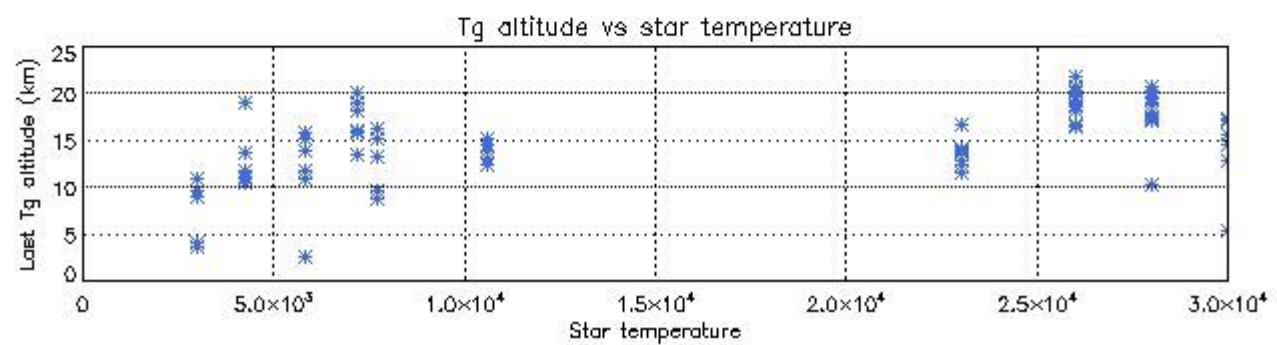
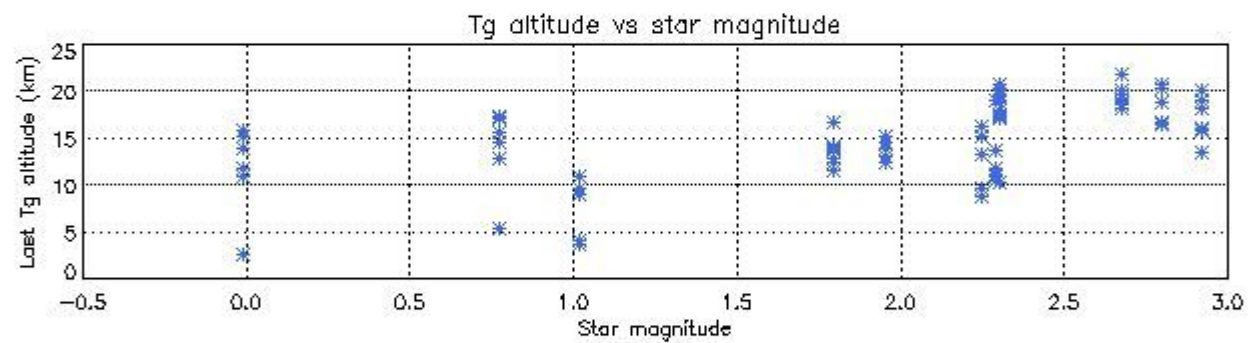
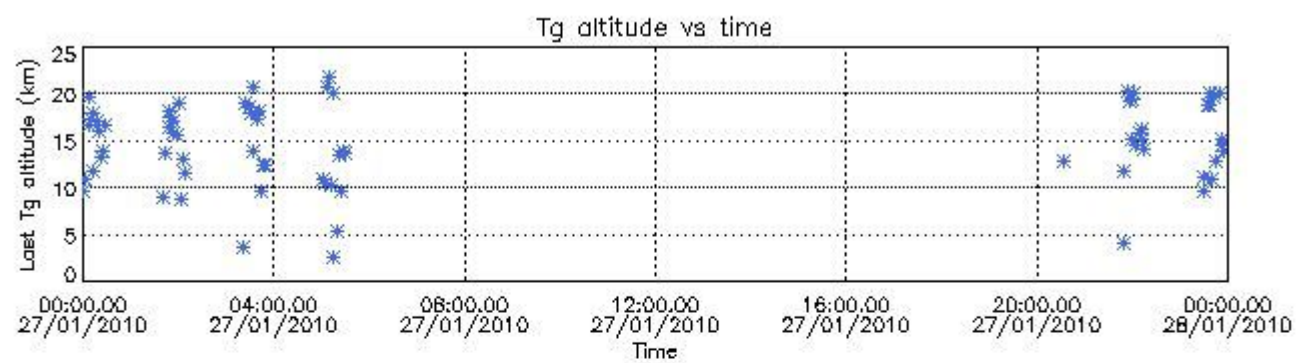
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.687	15.224	NaN
St. deviation:	4.3362	6.9074	NaN
Maximum:	21.860	28.215	NaN
Minimum:	2.6535	3.7255	NaN
Number of data:	72.000	63.000	NaN

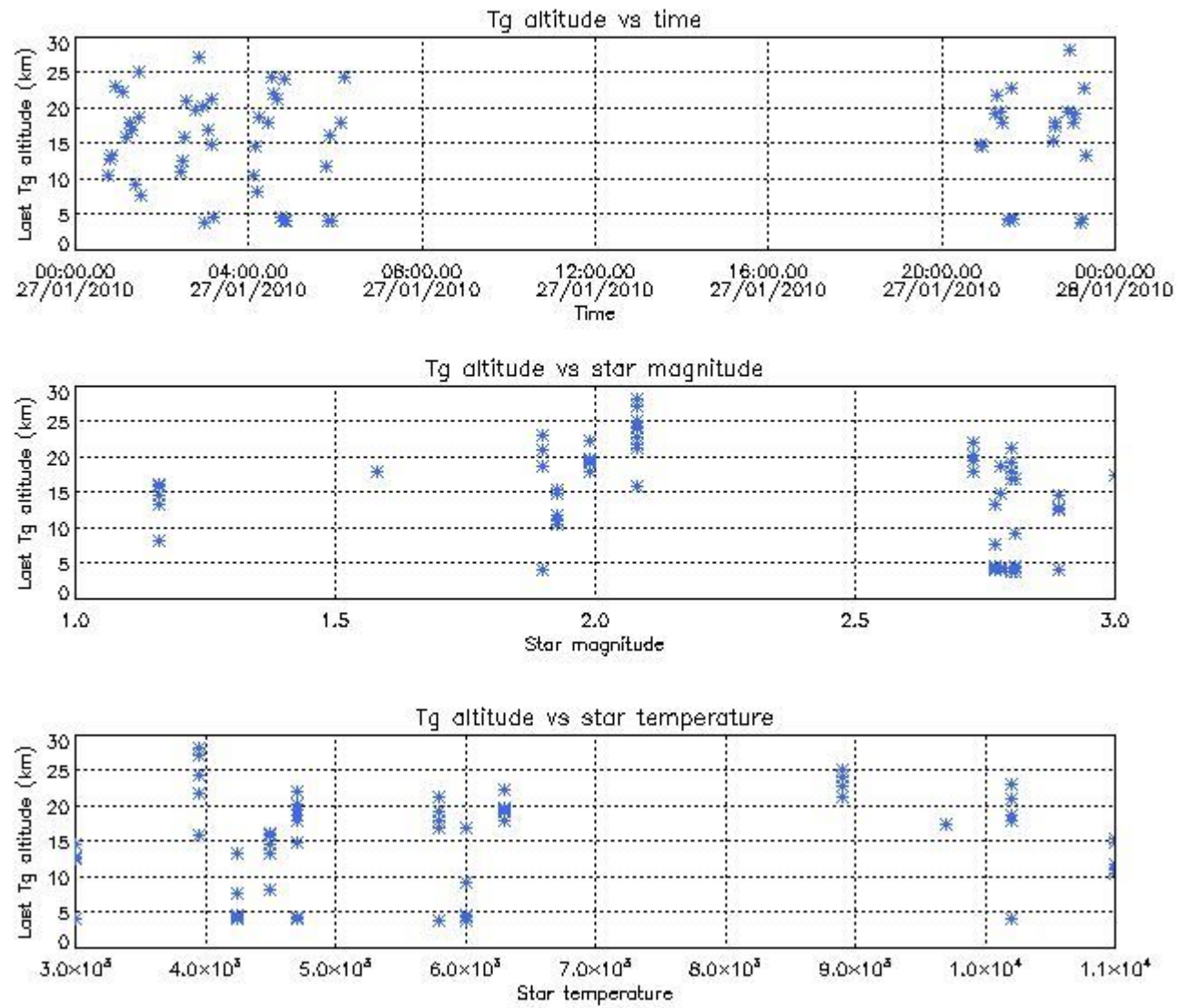
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

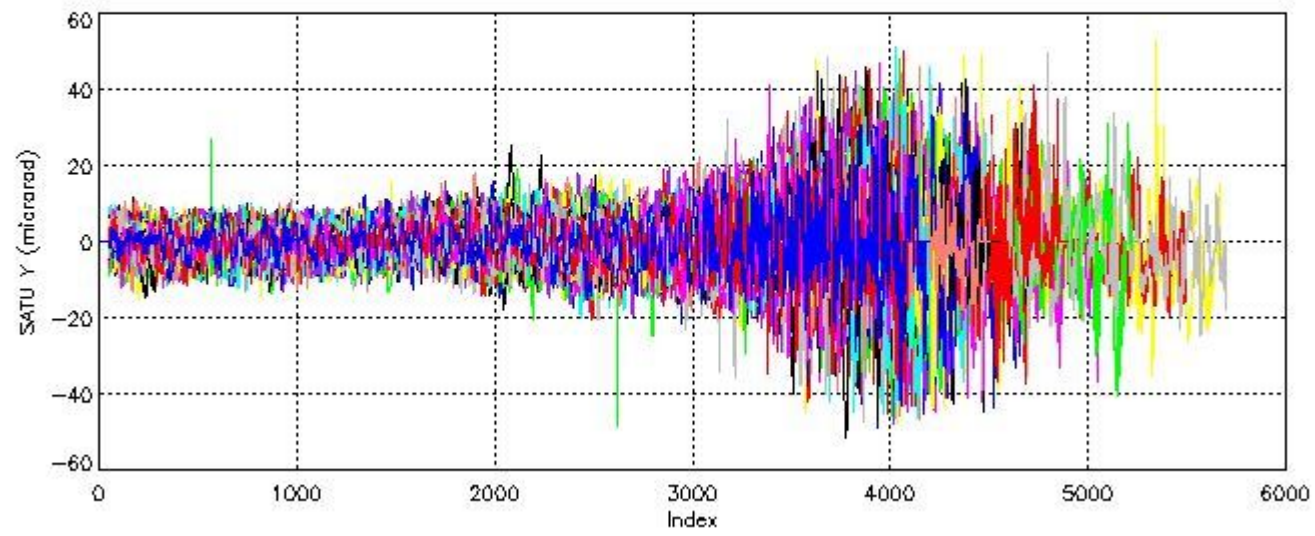
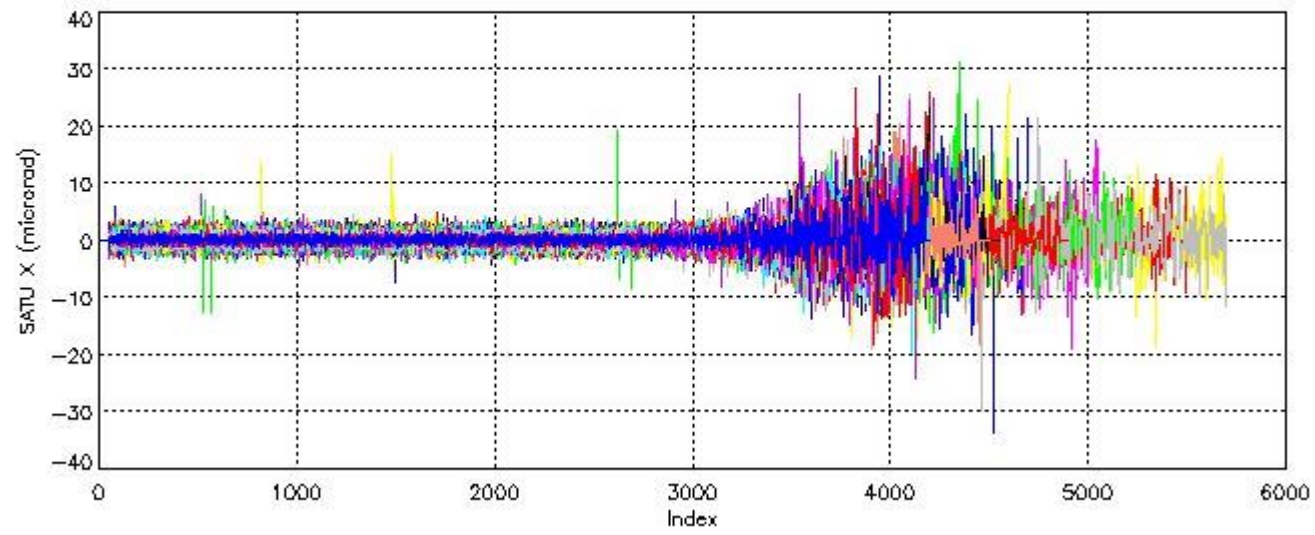


7. Star Acquisition and Tracking Unit (SATU)

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:	0.13938	-0.29789	0.073052	-0.30047
St. deviation:	0.62749	3.1975	0.59690	3.1290
Maximum:	13.600	26.700	3.3000	16.200
Minimum:	-12.800	-15.500	-3.5000	-15.000

Number of data:	67800.	67800.	56300.	56300.
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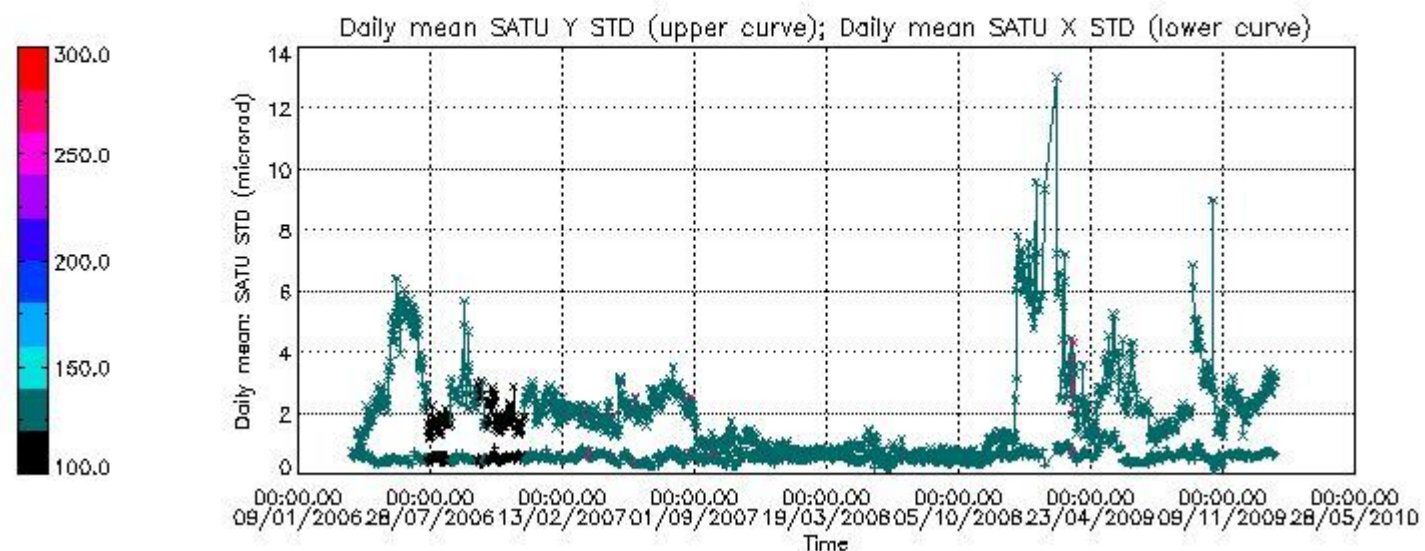
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

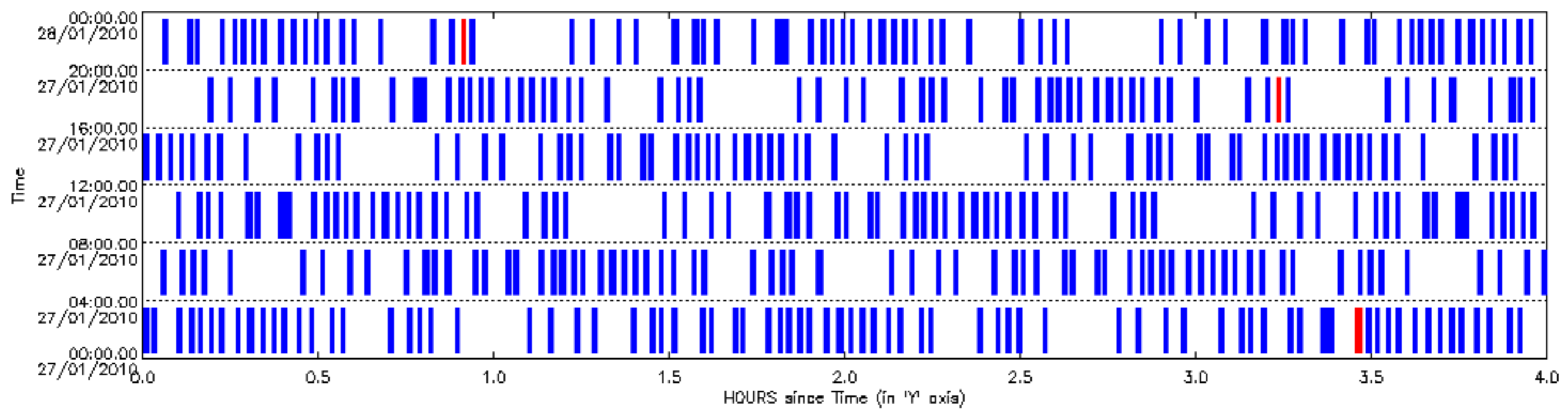
Lower curve: STD of SATU X axis

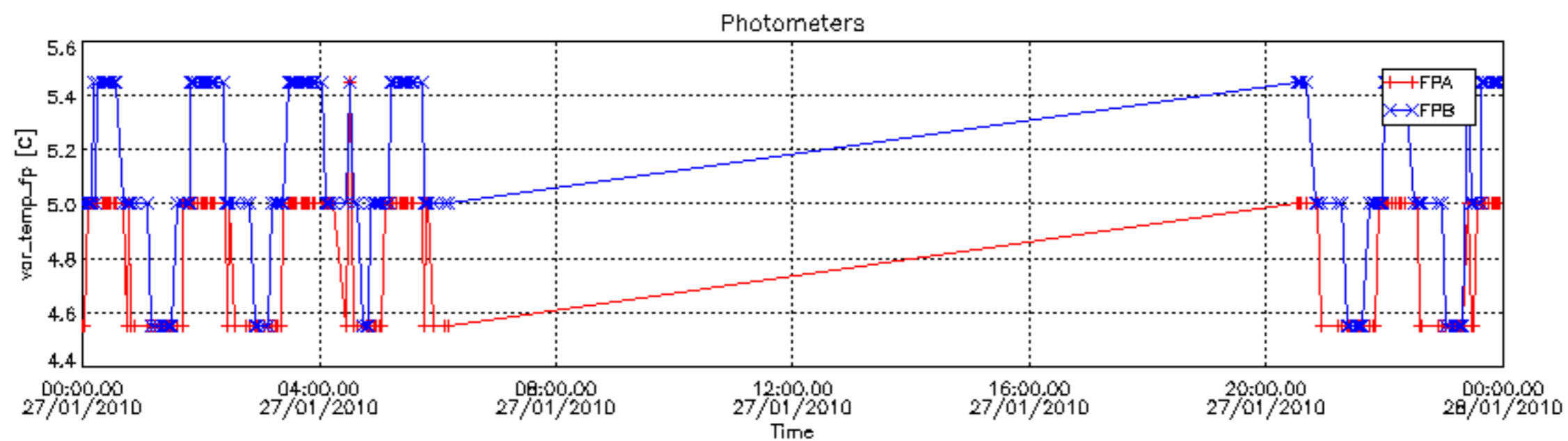
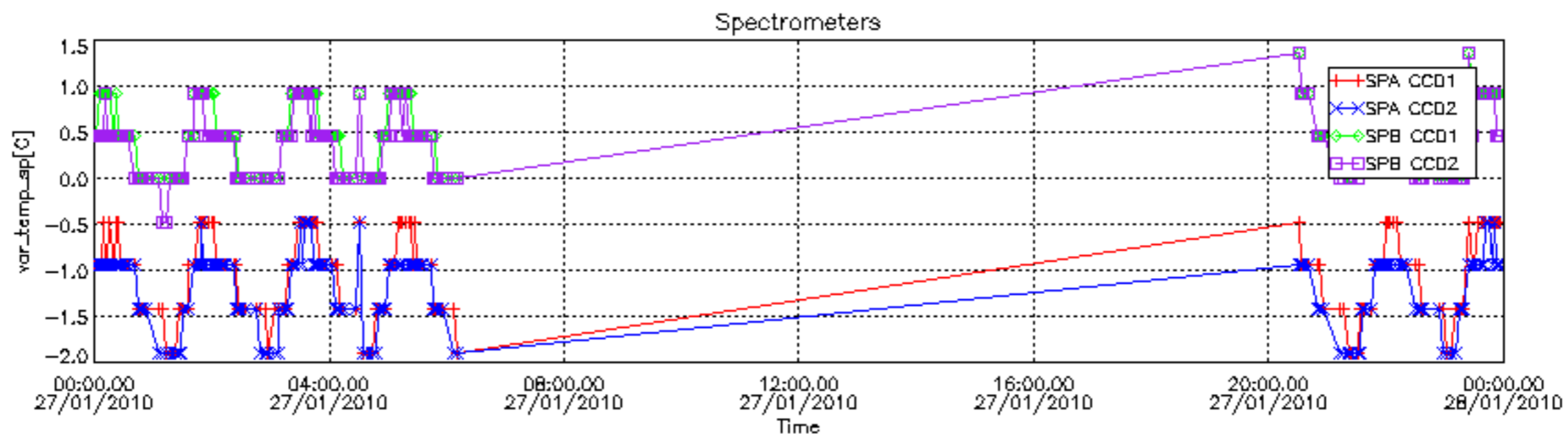


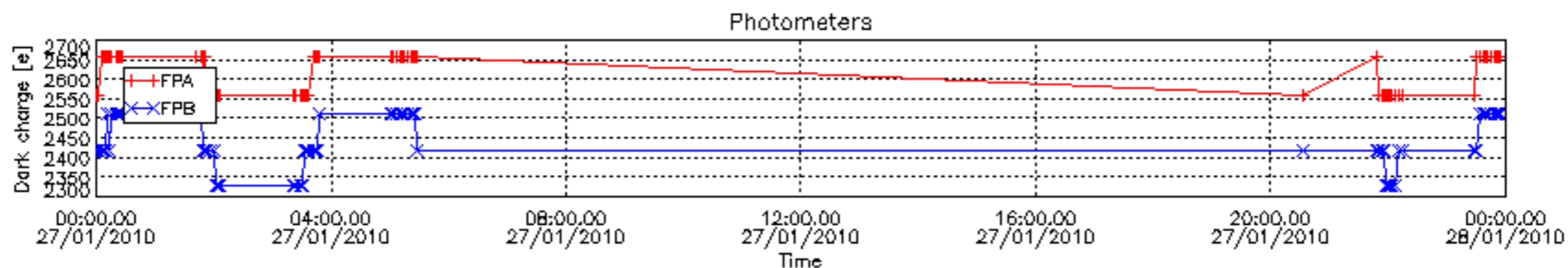
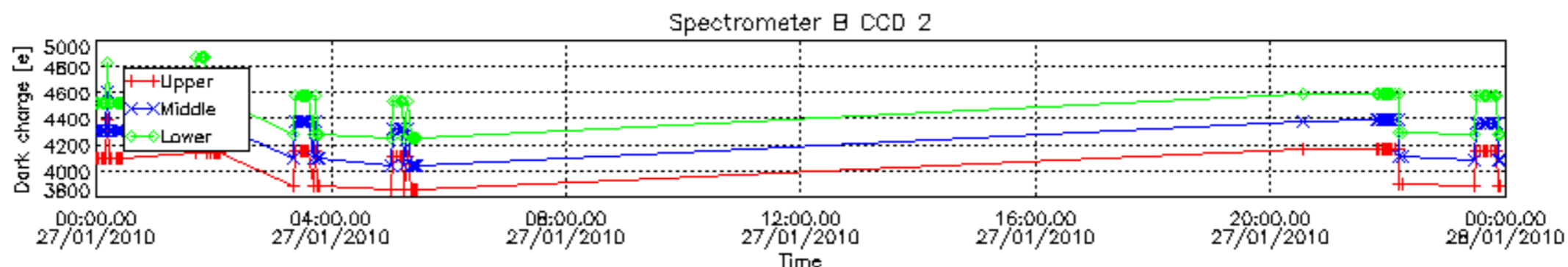
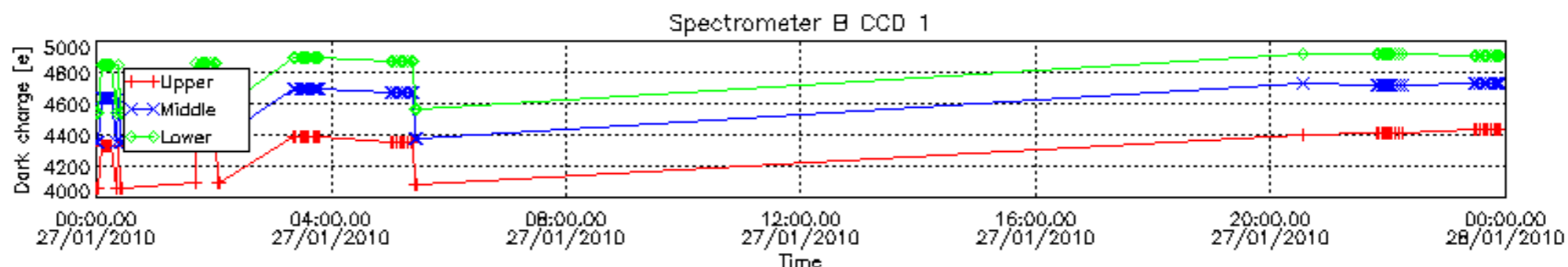
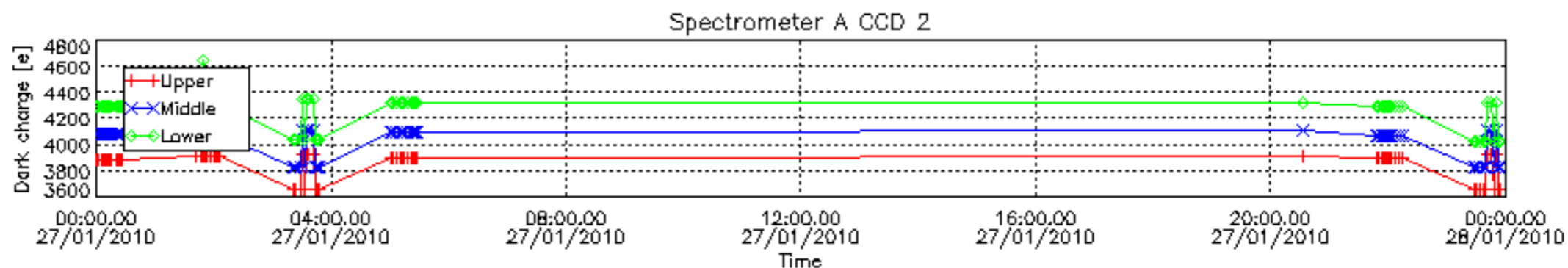
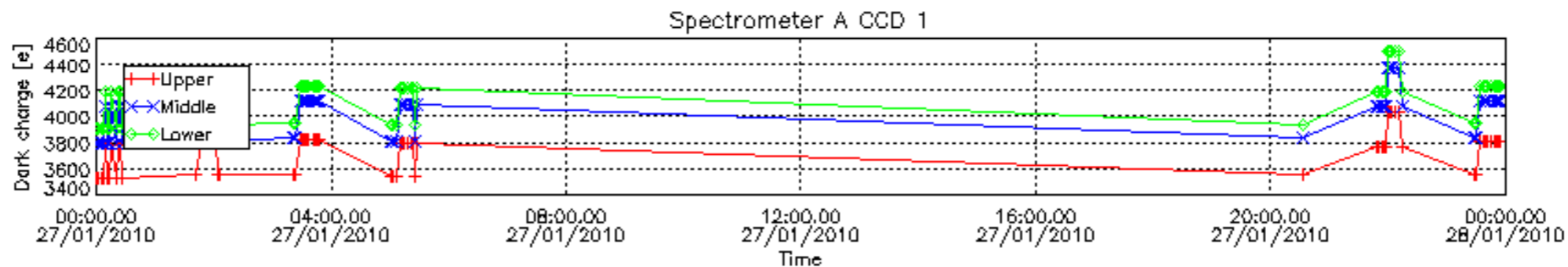
8. Auxiliary Data Files used for the production reported in section 2.4

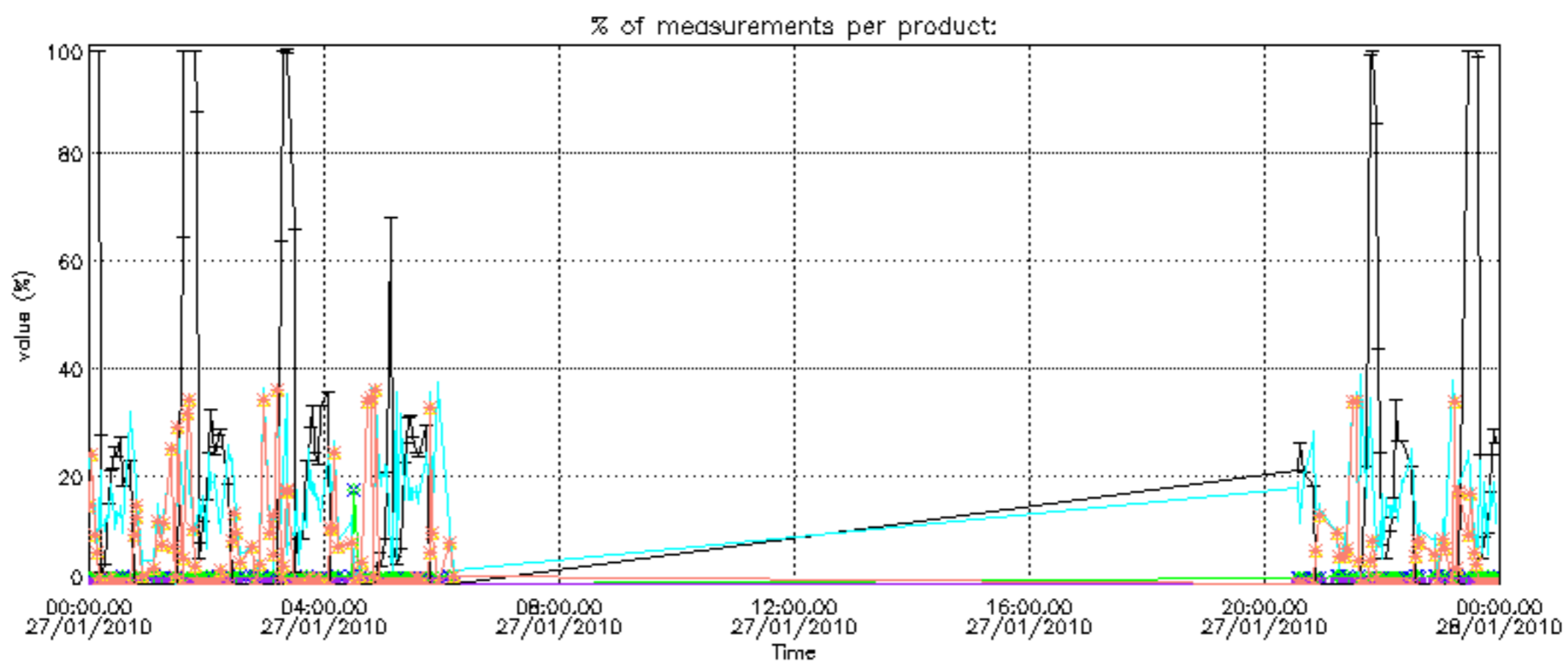
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	27-JAN-2010 00:00:14
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100120_153031_20100118_000000_20500101_000000	1	27-JAN-2010 00:00:14
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100127_093029_20100125_000000_20500101_000000	112	27-JAN-2010 20:31:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	27-JAN-2010 00:00:14
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-JAN-2010 00:00:14
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	27-JAN-2010 00:00:14
ECMWF_FILE	AUX_ECF_AXNECM20100126_062114_20100126_210000_20100127_090000	1	27-JAN-2010 00:00:14
ECMWF_FILE	AUX_ECF_AXNECM20100126_180115_20100127_030000_20100127_150000	81	27-JAN-2010 04:30:25
ECMWF_FILE	AUX_ECF_AXNECM20100127_062114_20100127_150000_20100128_030000	112	27-JAN-2010 20:31:04
ECMWF_FILE	AUX_ECF_AXNECM20100127_062115_20100127_210000_20100128_090000	127	27-JAN-2010 21:44:01
OPTIONAL_ECMWF_FILE	MISSING	1	27-JAN-2010 00:00:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100126_235300_000057382086_00216_41352_9647.N1	1	27-JAN-2010 00:00:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100127_013357_000044632086_00217_41353_9648.N1	29	27-JAN-2010 01:35:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100127_025339_000054192086_00218_41354_9649.N1	53	27-JAN-2010 02:54:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100127_042917_000057382086_00219_41355_9650.N1	81	27-JAN-2010 04:30:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100127_203058_000038252086_00229_41365_9651.N1	112	27-JAN-2010 20:31:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100127_214002_000057382086_00229_41365_9652.N1	127	27-JAN-2010 21:44:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100127_232059_000057382086_00230_41366_9653.N1	154	27-JAN-2010 23:24:38

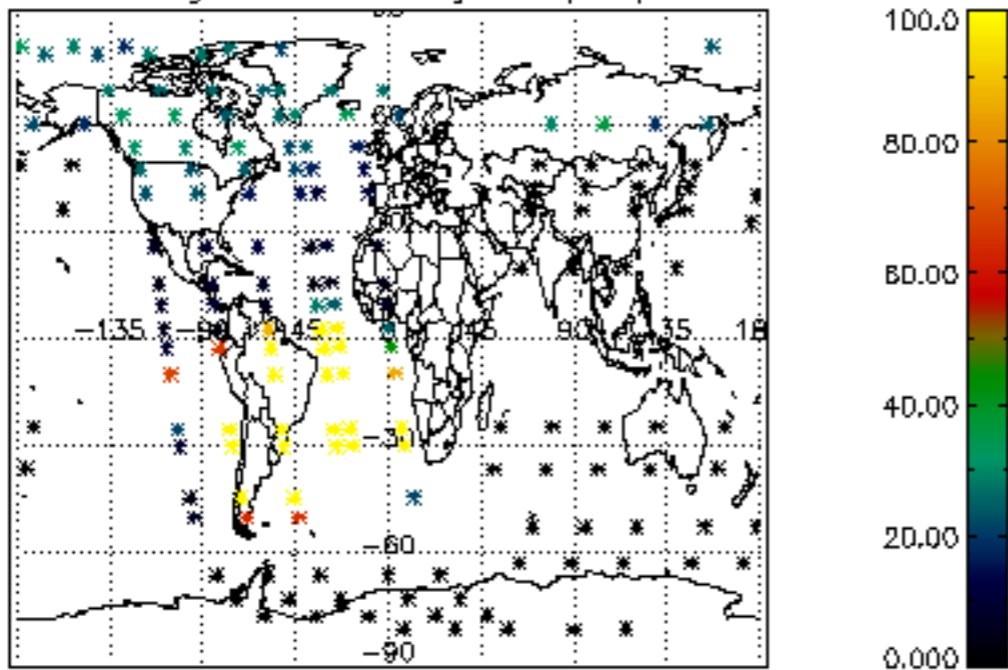




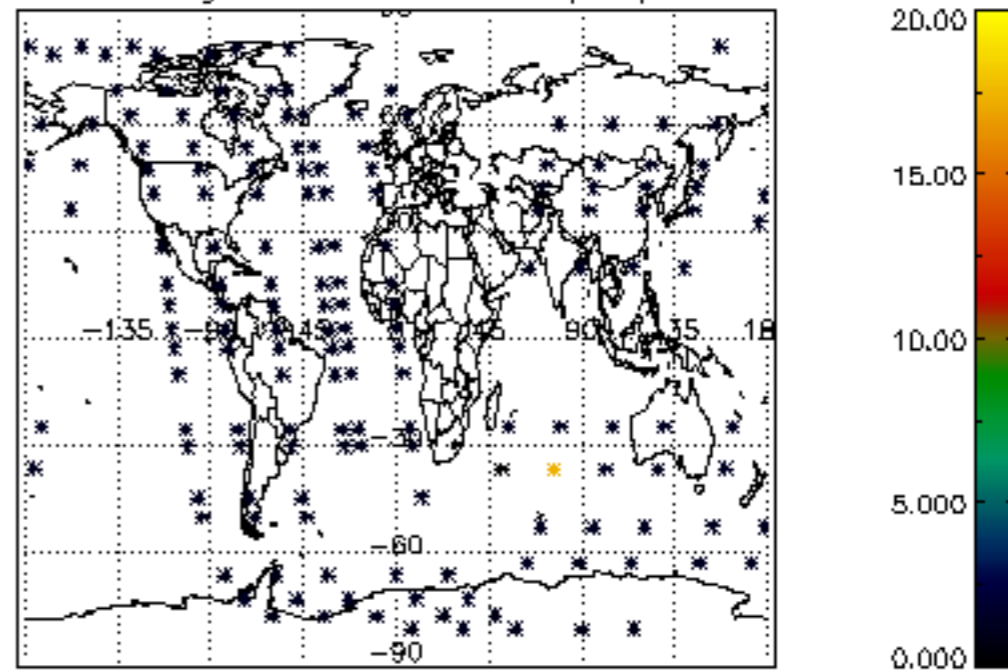




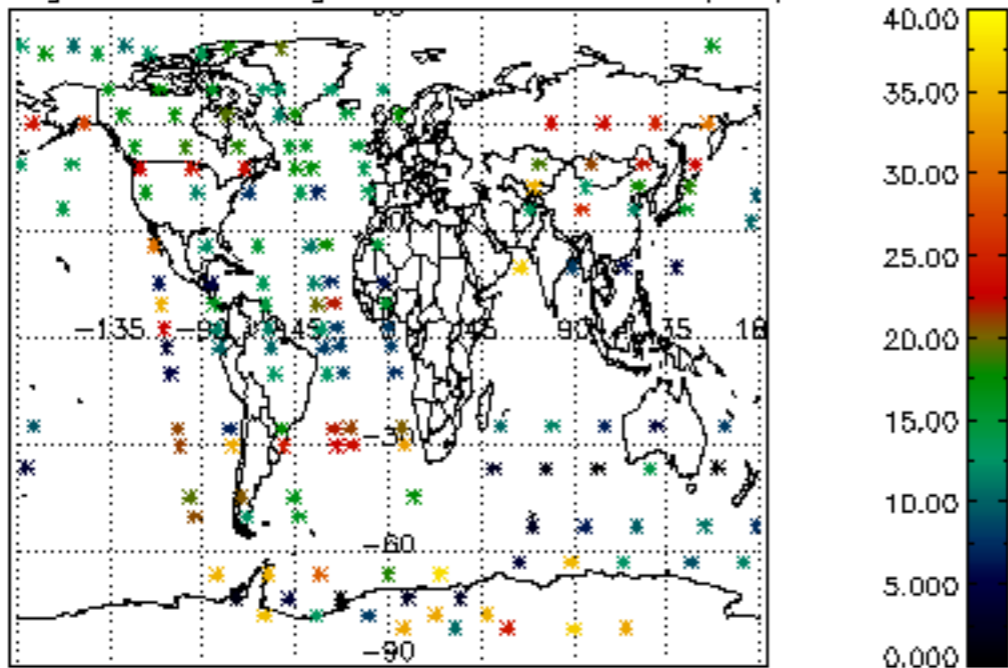
Percentage of cosmic ray hits per profile



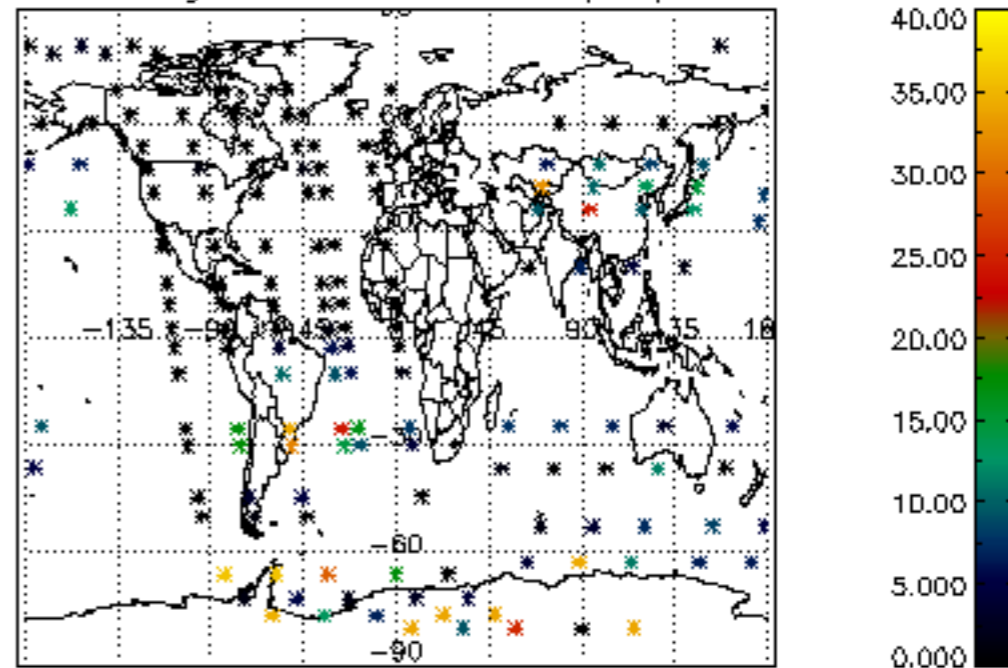
Percentage of datation errors per profile



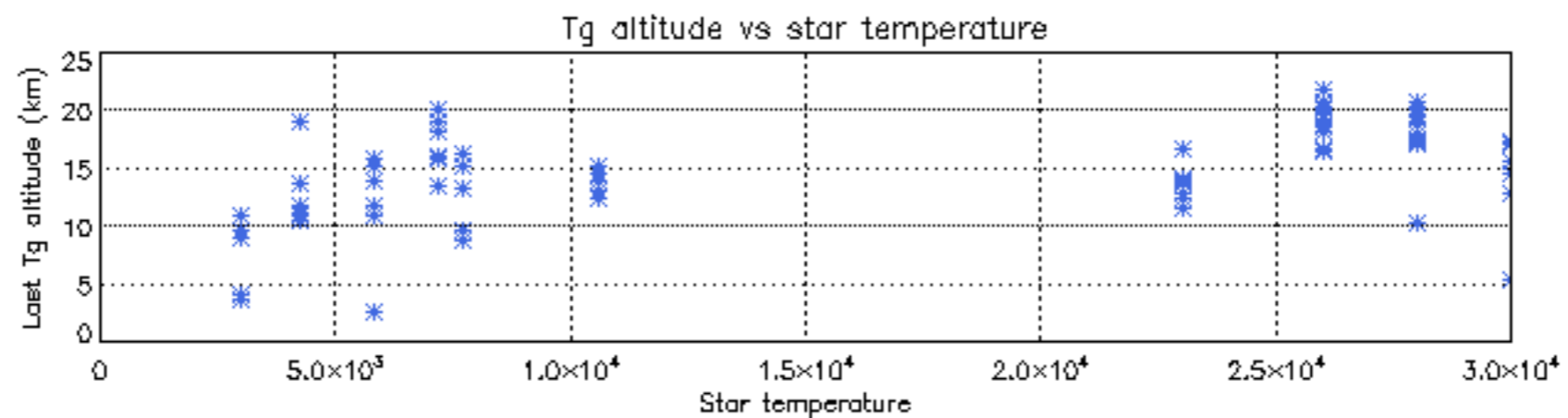
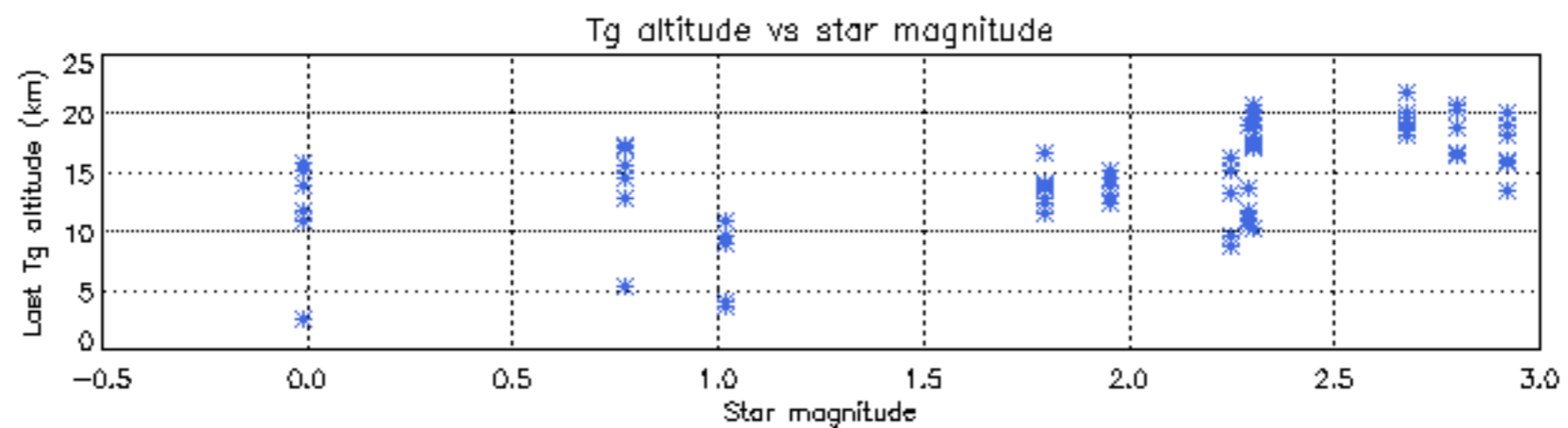
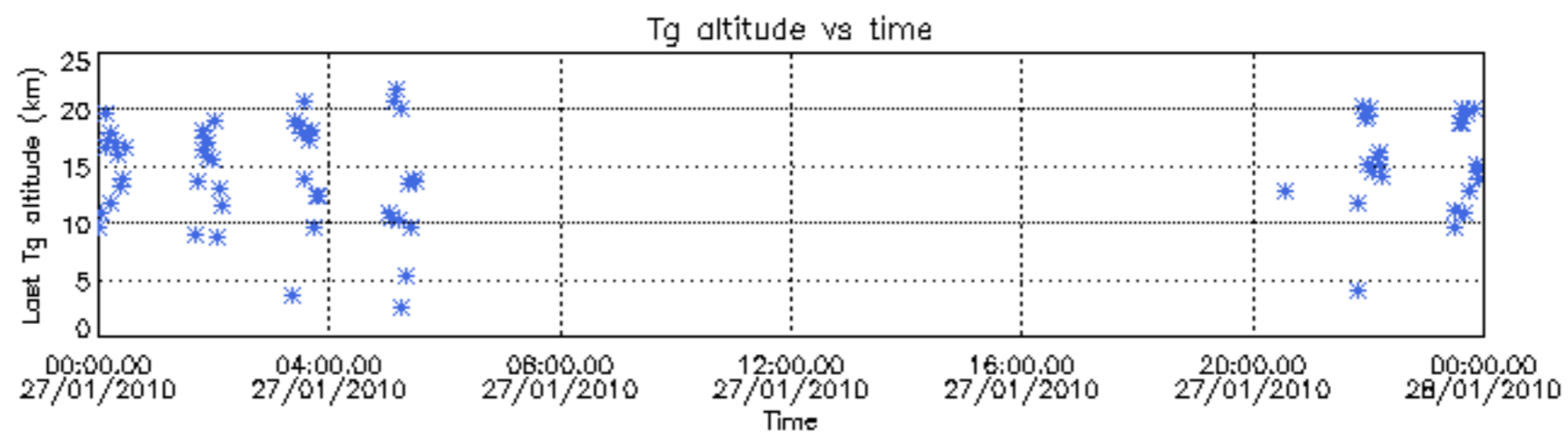
Percentage of star falling outside central band per profile



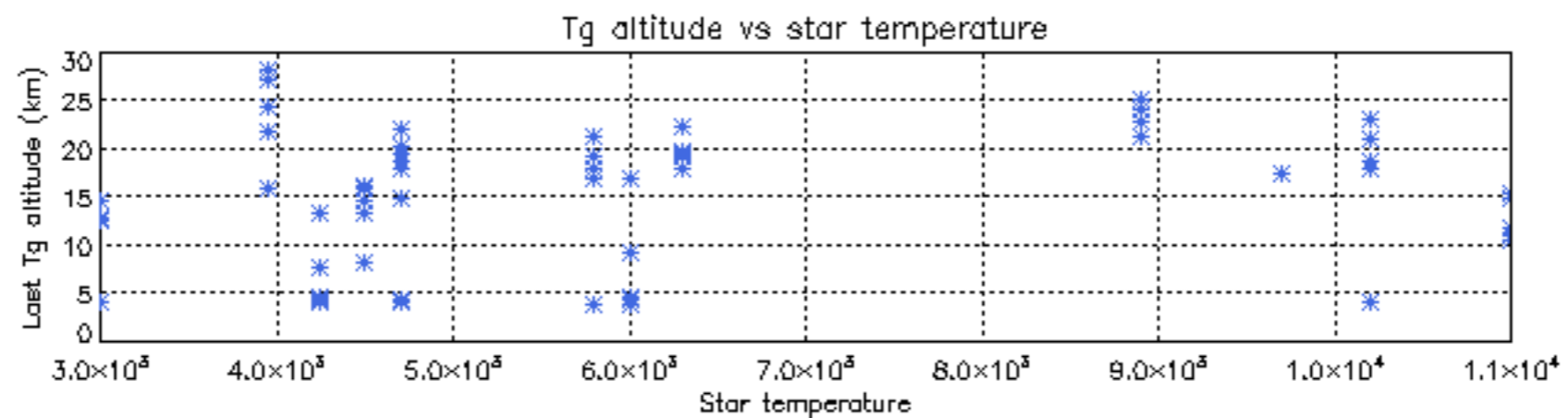
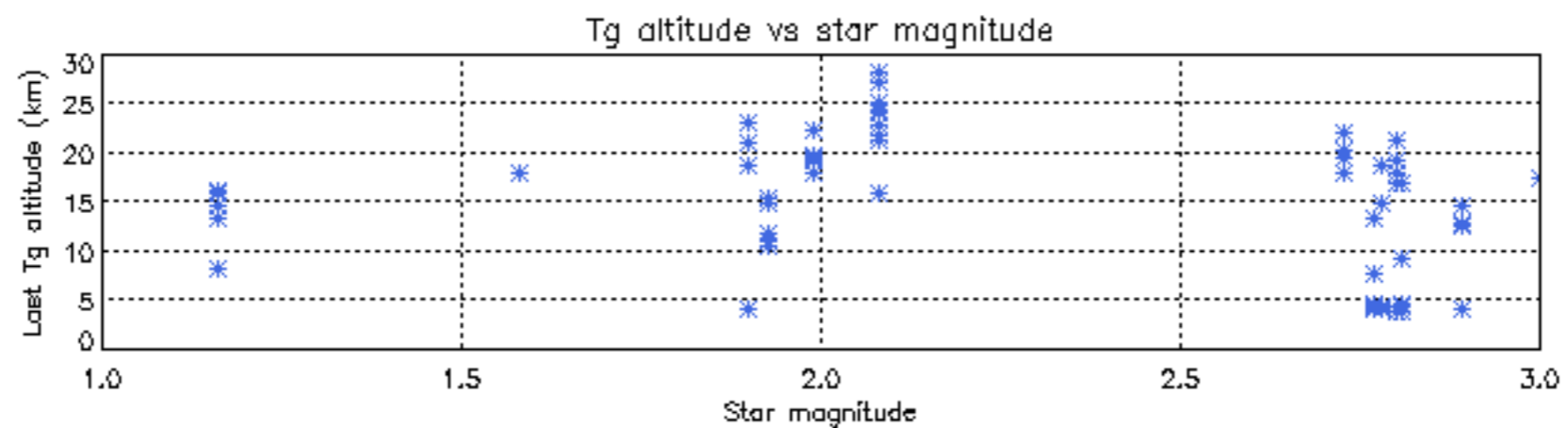
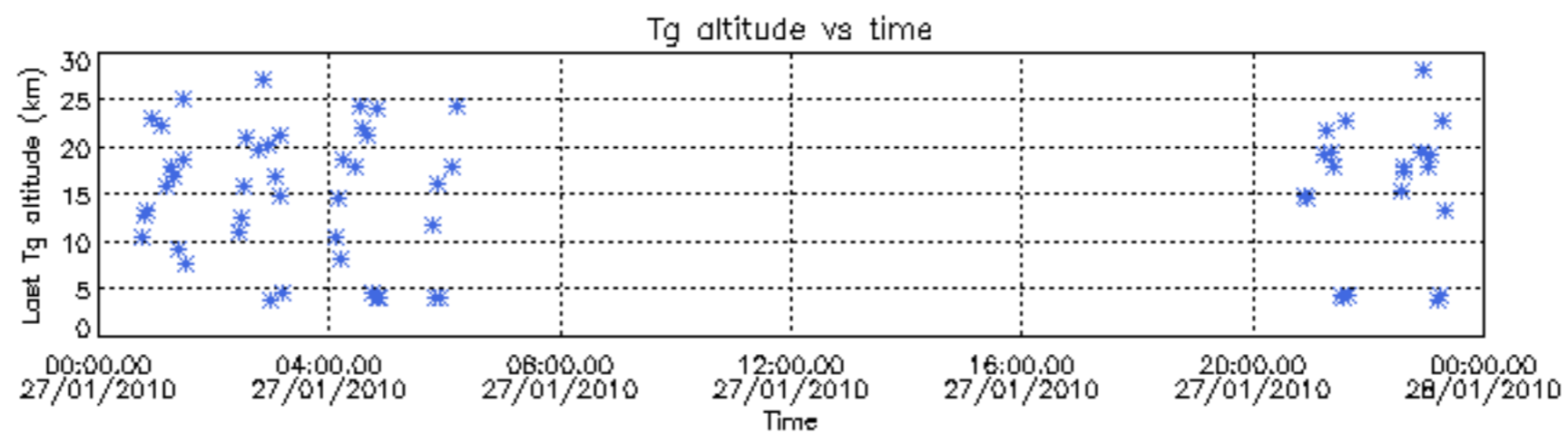
Percentage of saturation errors per profile

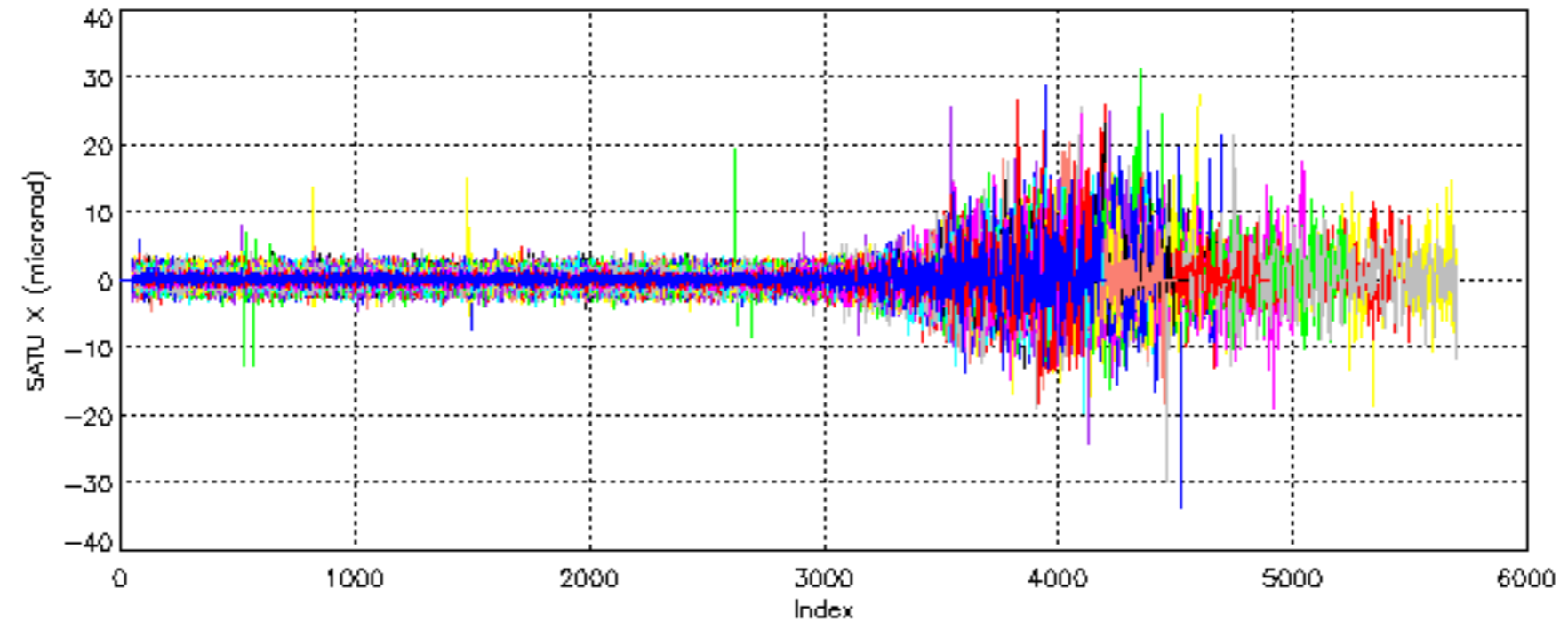


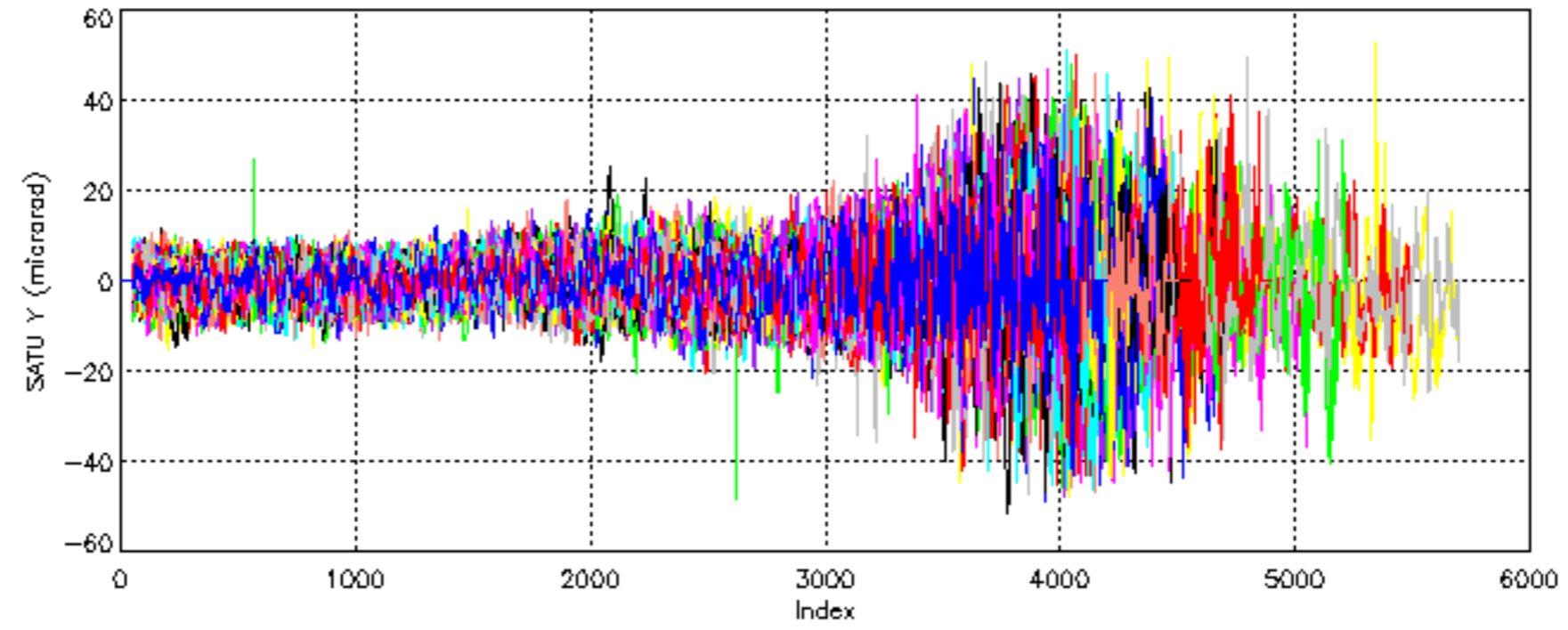
Tangent altitude at which the star is lost

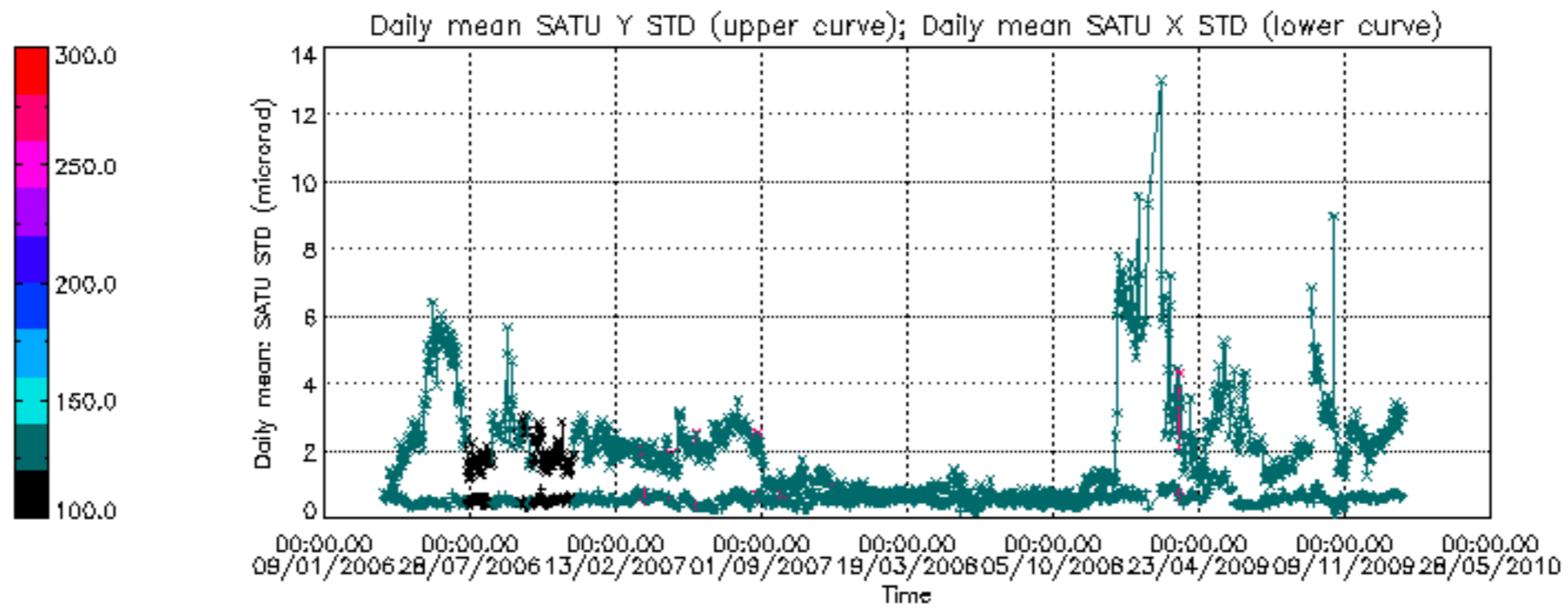


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100101_001436_000059322085_00345_40980_9243.N1

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3; -103.6; 01-JAN-2010 00:24:15; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;40980
4; 1.0; 01-JAN-2010 00:26:00; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;40981
5; 106.3; 01-JAN-2010 00:27:45; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40981
6; 209.9; 01-JAN-2010 00:29:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40981
7; 476.2; 01-JAN-2010 00:33:55; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40981
8; 630.5; 01-JAN-2010 00:36:29; Dark ; 49.0; 71; Iot Car ; 2.25; 7700;occ; 98; 0;40981
9; 727.5; 01-JAN-2010 00:38:06; Dark ; 51.5; 41; Eps Car ; 1.86; 4100;occ; 103; 0;40981
10; 916.1; 01-JAN-2010 00:41:15; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;40981
11; 1047.9; 01-JAN-2010 00:43:26; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;40981
12; 1172.3; 01-JAN-2010 00:45:31; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;40981
13; 1340.4; 01-JAN-2010 00:48:19; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;40981
14; 1433.2; 01-JAN-2010 00:49:52; Dark ; 44.0; 179; 240mi2CMA ; 3.03; 24000;occ; 88; 0;40981
15; 1581.4; 01-JAN-2010 00:52:20; Dark ; 45.0; 1; 9Alp CMA ; -1.44; 11000;occ; 90; 0;40981
16; 1730.7; 01-JAN-2010 00:54:49; Dark ; 36.0; 56; 53Kap Ori ; 2.07; 30000;occ; 72; 0;40981
17; 1881.4; 01-JAN-2010 00:57:20; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;40981
18; 2032.7; 01-JAN-2010 00:59:51; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;40981
19; 2229.2; 01-JAN-2010 01:03:08; Dark ; 53.0; 44; 24Gam Gem ; 1.93; 11000;occ; 106; 0;40981
20; 2327.3; 01-JAN-2010 01:04:46; Bright; 44.0; 151; 13Mu Gem ; 2.89; 3000;occ; 88; 0;40981
21; 2566.8; 01-JAN-2010 01:08:45; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;40981
22; 2692.3; 01-JAN-2010 01:10:51; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;40981
23; 3691.0; 01-JAN-2010 01:27:30; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;40981
24; 3911.7; 01-JAN-2010 01:31:10; Bright; 50.5; 32; 77Eps UMa ; 1.76; 11000;occ; 101; 0;40981
25; 4108.8; 01-JAN-2010 01:34:27; Bright; 66.0; 39; 85Eta UMa ; 1.85; 24000;occ; 132; 0;40981
26; 4353.0; 01-JAN-2010 01:38:32; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;40981
27; 4574.5; 01-JAN-2010 01:42:13; Bright; 62.0; 83; ; 2.38; 11000;occ; 124; 0;40981
28; 4770.9; 01-JAN-2010 01:45:29; Bright; 53.5; 3; 16Alp Boo ; -0.05; 4250;occ; 107; 0;40981
29; 5194.3; 01-JAN-2010 01:52:33; Bright; 55.5; 104; 27Bet Lib ; 2.61; 13100;occ; 111; 0;40981

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3; -268.9; 01-JAN-2010 02:02:06; Dark ; 54.0; 54; 5The Cen ; 2.06; 4500;occ; 108; 0;40981
4; -102.9; 01-JAN-2010 02:04:52; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;40981
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7; 210.8; 01-JAN-2010 02:10:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40982
8; 477.2; 01-JAN-2010 02:14:32; Dark ; 48.0; 113; Mu Vel ; 2.69; 5000;occ; 96; 0;40982
9; 631.0; 01-JAN-2010 02:17:05; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40982
10; 745.4; 01-JAN-2010 02:19:00; Dark ; 46.0; 46; Del Vel ; 1.95; 10600;occ; 92; 0;40982
11; 916.7; 01-JAN-2010 02:21:51; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;40982
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13; 1172.7; 01-JAN-2010 02:26:07; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;40982
14; 1340.9; 01-JAN-2010 02:28:55; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;40982
15; 1433.4; 01-JAN-2010 02:30:28; Dark ; 45.0; 179; 240mi2CMA ; 3.03; 24000;occ; 90; 0;40982
16; 1581.5; 01-JAN-2010 02:32:56; Dark ; 39.5; 1; 9Alp CMA ; -1.44; 11000;occ; 79; 0;40982
17; 1731.0; 01-JAN-2010 02:35:25; Dark ; 41.5; 56; 53Kap Ori ; 2.07; 30000;occ; 83; 0;40982
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19; 2032.7; 01-JAN-2010 02:40:27; Dark ; 50.5; 14; 58Alp Ori ; 0.87; 3000;occ; 101; 0;40982
20; 2228.8; 01-JAN-2010 02:43:43; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;40982
21; 2327.1; 01-JAN-2010 02:45:22; Bright; 46.5; 151; 13Mu Gem ; 2.89; 3000;occ; 93; 0;40982
22; 2566.5; 01-JAN-2010 02:49:21; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;40982
23; 2692.2; 01-JAN-2010 02:51:27; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;40982
24; 3690.9; 01-JAN-2010 03:08:05; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;40982

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1; -2124.7; 01-JAN-2010 03:11:46; Bright; 52.0; 32; 77Eps UMa ; 1.76; 11000;occ; 104; 0;40982
2; -1927.2; 01-JAN-2010 03:15:03; Bright; 66.0; 39; 85Eta UMa ; 1.85; 24000;occ; 132; 0;40982
3; -1682.7; 01-JAN-2010 03:19:08; Bright; 62.0; 180; 27Gam Boo ; 3.04; 8000;occ; 124; 0;40982
4; -1461.4; 01-JAN-2010 03:22:49; Bright; 42.0; 83; ; 2.38; 11000;occ; 84; 0;40982
5; -1264.5; 01-JAN-2010 03:26:06; Bright; 53.5; 3; 16Alp Boo ; -0.05; 4250;occ; 107; 0;40982
6; -1145.0; 01-JAN-2010 03:28:05; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;40982
7; -841.1; 01-JAN-2010 03:33:09; Bright; 45.0; 104; 27Bet Lib ; 2.61; 13100;occ; 90; 0;40982
8; -681.3; 01-JAN-2010 03:35:49; Dark ; 44.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 89; 0;40982
9; -267.8; 01-JAN-2010 03:42:43; Dark ; 47.5; 54; 5The Cen ; 2.06; 4500;occ; 95; 0;40982
10; -102.3; 01-JAN-2010 03:45:28; Dark ; 38.5; 95; Zet Cen ; 2.55; 26000;occ; 77; 0;40982
11; 2.3; 01-JAN-2010 03:47:13; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;40983
12; 108.1; 01-JAN-2010 03:48:59; Dark ; 46.0; 64; Gam Cen ; 2.20; 10600;occ; 92; 0;40983

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13; 211.7; 01-JAN-2010 03:50:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40983
14; 478.3; 01-JAN-2010 03:55:09; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40983
15; 631.6; 01-JAN-2010 03:57:42; Dark ; 45.0; 71; Iot Car ; 2.25; 7700;occ; 90; 0;40983
16; 746.1; 01-JAN-2010 03:59:37; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;40983
17; 917.5; 01-JAN-2010 04:02:28; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;40983
18; 1049.0; 01-JAN-2010 04:04:39; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;40983
19; 1173.4; 01-JAN-2010 04:06:44; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;40983
20; 1341.3; 01-JAN-2010 04:09:32; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;40983
21; 1433.9; 01-JAN-2010 04:11:04; Dark ; 44.0; 179; 240mi2CMa ; 3.03; 24000;occ; 88; 0;40983
22; 1581.9; 01-JAN-2010 04:13:32; Dark ; 53.0; 1; 9Alp CMa ; -1.44; 11000;occ; 106; 0;40983
23; 1731.3; 01-JAN-2010 04:16:02; Dark ; 42.5; 56; 53Kap Ori ; 2.07; 30000;occ; 85; 0;40983
24; 1881.6; 01-JAN-2010 04:18:32; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;40983
25; 2032.8; 01-JAN-2010 04:21:03; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;40983
26; 2228.6; 01-JAN-2010 04:24:19; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;40983
27; 2326.8; 01-JAN-2010 04:25:57; Bright; 49.0; 151; 13Mu Gem ; 2.89; 3000;occ; 98; 0;40983
28; 2566.6; 01-JAN-2010 04:29:57; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;40983
29; 2692.4; 01-JAN-2010 04:32:03; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;40983
30; 3690.8; 01-JAN-2010 04:48:41; Bright; 15.5; 60; 7Bet UMi ; 2.08; 3950;occ; 31; 0;40983
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2; -2125.3; 01-JAN-2010 04:52:21; Bright; 47.5; 32; 77Eps UMa ; 1.76; 11000;occ; 95; 0;40983
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4; -1682.9; 01-JAN-2010 04:59:44; Bright; 39.5; 180; 27Gam Boo ; 3.04; 8000;occ; 79; 0;40983
5; -1461.0; 01-JAN-2010 05:03:25; Bright; 62.0; 83; ; 2.38; 11000;occ; 124; 0;40983
6; -1264.0; 01-JAN-2010 05:06:42; Bright; 52.5; 3; 16Alp Boo ; -0.05; 4250;occ; 105; 0;40983
7; -1144.6; 01-JAN-2010 05:08:42; Bright; 38.0; 102; 24Alp Ser ; 2.60; 4250;occ; 76; 0;40983
8; -840.4; 01-JAN-2010 05:13:46; Bright; 56.0; 104; 27Bet Lib ; 2.61; 13100;occ; 112; 0;40983
9; -680.6; 01-JAN-2010 05:16:26; Dark ; 43.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 87; 0;40983
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11; -101.5; 01-JAN-2010 05:26:05; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;40983
12; 2.9; 01-JAN-2010 05:27:49; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;40984
13; 108.8; 01-JAN-2010 05:29:35; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;40984
14; 212.6; 01-JAN-2010 05:31:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40984
15; 479.0; 01-JAN-2010 05:35:45; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40984
16; 632.1; 01-JAN-2010 05:38:19; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;40984
17; 746.5; 01-JAN-2010 05:40:13; Dark ; 46.5; 46; Del Vel ; 1.95; 10600;occ; 93; 0;40984
18; 918.0; 01-JAN-2010 05:43:04; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40984
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 19; 2311.8; 05-JAN-2010 00:38:38; Bright; 46.5; 151; 13Mu Gem ; 2.89; 3000;occ; 93; 0;41038
 20; 2554.3; 05-JAN-2010 00:42:41; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;41038
 21; 2688.0; 05-JAN-2010 00:44:55; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;41038
 22; 3684.5; 05-JAN-2010 01:01:31; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;41038
 23; 3951.8; 05-JAN-2010 01:05:58; Bright; 50.0; 55; 79Zet UMa ; 2.06; 10200;occ; 100; 0;41038
 24; 4354.7; 05-JAN-2010 01:12:41; Bright; 42.0; 180; 27Gam Boo ; 3.04; 8000;occ; 84; 0;41038
 25; 4586.9; 05-JAN-2010 01:16:33; Bright; 65.0; 83; ; 2.38; 11000;occ; 130; 0;41038
 26; 4908.9; 05-JAN-2010 01:21:56; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;41038
 27; 5222.5; 05-JAN-2010 01:27:09; Bright; 42.5; 104; 27Bet Lib ; 2.61; 13100;occ; 85; 0;41038

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 3; -2080.0; 04-JAN-2010 06:39:27; Bright; 47.0; 55; 79Zet UMa ; 2.06; 10200;occ; 94; 0;41027
 4; -1937.3; 04-JAN-2010 06:41:50; Bright; 47.0; 39; 85Eta UMa ; 1.85; 24000;occ; 94; 0;41027
 5; -1681.5; 04-JAN-2010 06:46:06; Bright; 41.0; 180; 27Gam Boo ; 3.04; 8000;occ; 82; 0;41027
 6; -1451.4; 04-JAN-2010 06:49:56; Bright; 45.0; 83; ; 2.38; 11000;occ; 90; 0;41027
 7; -1130.5; 04-JAN-2010 06:55:17; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;41027
 8; -819.0; 04-JAN-2010 07:00:28; Bright; 44.0; 104; 27Bet Lib ; 2.61; 13100;occ; 88; 0;41027
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 10; -233.8; 04-JAN-2010 07:10:14; Dark ; 46.5; 54; 5The Cen ; 2.06; 4500;occ; 93; 0;41027
 11; 145.3; 04-JAN-2010 07:16:33; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;41028
 12; 253.6; 04-JAN-2010 07:18:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41028
 13; 517.9; 04-JAN-2010 07:22:45; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;41028
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 15; 769.9; 04-JAN-2010 07:26:57; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41028
 16; 939.9; 04-JAN-2010 07:29:47; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;41028
 17; 1071.1; 04-JAN-2010 07:31:58; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;41028
 18; 1189.1; 04-JAN-2010 07:33:56; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;41028
 19; 1353.2; 04-JAN-2010 07:36:41; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;41028
 20; 1443.7; 04-JAN-2010 07:38:11; Dark ; 45.0; 179; 24Omi2CMa ; 3.03; 24000;occ; 90; 0;41028
 21; 1587.4; 04-JAN-2010 07:40:35; Dark ; 48.0; 1; 9Alp CMa ; -1.44; 11000;occ; 96; 0;41028

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 4; 2314.4; 04-JAN-2010 07:52:42; Bright; 52.0; 151; 13Mu Gem ; 2.89; 3000;occ; 104; 0;41028
 5; 2556.5; 04-JAN-2010 07:56:44; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;41028
 6; 2690.1; 04-JAN-2010 07:58:57; Bright; 39.0; 42; 34Bet Aur ; 1.90; 10200;occ; 78; 0;41028
 7; 3686.0; 04-JAN-2010 08:15:33; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;41028
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 9; 4098.5; 04-JAN-2010 08:22:26; Bright; 68.0; 39; 85Eta UMa ; 1.85; 24000;occ; 136; 0;41028
 10; 4354.6; 04-JAN-2010 08:26:42; Bright; 44.0; 180; 27Gam Boo ; 3.04; 8000;occ; 88; 0;41028
 11; 4584.5; 04-JAN-2010 08:30:32; Bright; 45.5; 83; ; 2.38; 11000;occ; 91; 0;41028
 12; 4905.6; 04-JAN-2010 08:35:53; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;41028
 13; 5217.3; 04-JAN-2010 08:41:05; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;41028
 14; 5383.7; 04-JAN-2010 08:43:51; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;41028
 15; 5802.8; 04-JAN-2010 08:50:50; Dark ; 48.0; 54; 5The Cen ; 2.06; 4500;occ; 96; 0;41028
 16; 5963.0; 04-JAN-2010 08:53:30; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;41028
 17; 6065.2; 04-JAN-2010 08:55:13; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0;41028
 18; 6182.1; 04-JAN-2010 08:57:10; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41028
 19; 6290.5; 04-JAN-2010 08:58:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41028
 20; 6554.6; 04-JAN-2010 09:03:22; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;41028
 21; 6691.8; 04-JAN-2010 09:05:39; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;41028
 22; 6806.2; 04-JAN-2010 09:07:34; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41028
 23; 6975.9; 04-JAN-2010 09:10:23; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;41028
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 25; 7225.4; 04-JAN-2010 09:14:33; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;41028
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 27; 7479.7; 04-JAN-2010 09:18:47; Dark ; 43.5; 179; 24Omi2CMa ; 3.03; 24000;occ; 87; 0;41028
 28; 7623.2; 04-JAN-2010 09:21:11; Dark ; 49.5; 1; 9Alp CMa ; -1.44; 11000;occ; 99; 0;41028

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 4; 2314.1; 04-JAN-2010 09:33:17; Bright; 58.0; 151; 13Mu Gem ; 2.89; 3000;occ; 116; 0;41029

5; 2556.5; 04-JAN-2010 09:37:20; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;41029
6; 2689.8; 04-JAN-2010 09:39:33; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;41029
7; 3686.2; 04-JAN-2010 09:56:09; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;41029
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9; 4098.3; 04-JAN-2010 10:03:02; Bright; 48.0; 39; 85Eta UMa ; 1.85; 24000;occ; 96; 0;41029
10; 4354.4; 04-JAN-2010 10:07:18; Bright; 44.5; 180; 27Gam Boo ; 3.04; 8000;occ; 89; 0;41029
11; 4585.1; 04-JAN-2010 10:11:08; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;41029
12; 4905.7; 04-JAN-2010 10:16:29; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;41029
13; 5218.0; 04-JAN-2010 10:21:41; Bright; 51.0; 104; 27Bet Lib ; 2.61; 13100;occ; 102; 0;41029
14; 5384.3; 04-JAN-2010 10:24:28; Dark ; 46.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 92; 0;41029
15; 5803.6; 04-JAN-2010 10:31:27; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;41029
16; 5963.6; 04-JAN-2010 10:34:07; Dark ; 45.5; 95; Zet Cen ; 2.55; 26000;occ; 91; 0;41029
17; 6065.8; 04-JAN-2010 10:35:49; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;41029
18; 6182.9; 04-JAN-2010 10:37:46; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;41029
19; 6291.4; 04-JAN-2010 10:39:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41029
20; 6555.2; 04-JAN-2010 10:43:59; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;41029
21; 6692.4; 04-JAN-2010 10:46:16; Dark ; 47.5; 71; Iot Car ; 2.25; 7700;occ; 95; 0;41029
22; 6806.9; 04-JAN-2010 10:48:10; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41029
23; 6976.7; 04-JAN-2010 10:51:00; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;41029
24; 7107.7; 04-JAN-2010 10:53:11; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;41029
25; 7225.8; 04-JAN-2010 10:55:09; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;41029
26; 7389.4; 04-JAN-2010 10:57:53; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;41029
27; 7480.0; 04-JAN-2010 10:59:23; Dark ; 43.5; 179; 240mi2CMa ; 3.03; 24000;occ; 87; 0;41029
28; 7623.3; 04-JAN-2010 11:01:47; Dark ; 17.0; 1; 9Alp CMa ; -1.44; 11000;occ; 34; 0;41029

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3; 2214.6; 04-JAN-2010 11:12:14; Dark ; 45.0; 44; 24Gam Gem ; 1.93; 11000;occ; 90; 0;41030
4; 2313.9; 04-JAN-2010 11:13:53; Bright; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0;41030
5; 2556.2; 04-JAN-2010 11:17:55; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;41030
6; 2689.8; 04-JAN-2010 11:20:09; Bright; 55.0; 42; 34Bet Aur ; 1.90; 10200;occ; 110; 0;41030
7; 3685.8; 04-JAN-2010 11:36:45; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;41030
8; 3955.1; 04-JAN-2010 11:41:14; Bright; 44.5; 55; 79Zet UMa ; 2.06; 10200;occ; 89; 0;41030
9; 4354.6; 04-JAN-2010 11:47:54; Bright; 64.0; 180; 27Gam Boo ; 3.04; 8000;occ; 128; 0;41030
10; 4585.2; 04-JAN-2010 11:51:44; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;41030
11; 4906.1; 04-JAN-2010 11:57:05; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;41030
12; 5218.5; 04-JAN-2010 12:02:18; Bright; 42.0; 104; 27Bet Lib ; 2.61; 13100;occ; 84; 0;41030
13; 5385.0; 04-JAN-2010 12:05:04; Dark ; 44.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 88; 0;41030
14; 5804.2; 04-JAN-2010 12:12:03; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;41030
15; 5964.4; 04-JAN-2010 12:14:44; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;41030
16; 6066.3; 04-JAN-2010 12:16:25; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41030
17; 6183.8; 04-JAN-2010 12:18:23; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41030
18; 6292.3; 04-JAN-2010 12:20:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41030
19; 6556.3; 04-JAN-2010 12:24:35; Dark ; 49.5; 113; Mu Vel ; 2.69; 5000;occ; 99; 0;41030
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21; 6807.3; 04-JAN-2010 12:28:47; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41030
22; 6977.2; 04-JAN-2010 12:31:36; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;41030
23; 7108.3; 04-JAN-2010 12:33:48; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;41030
24; 7225.8; 04-JAN-2010 12:35:45; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;41030
25; 7389.9; 04-JAN-2010 12:38:29; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;41030
26; 7480.1; 04-JAN-2010 12:39:59; Dark ; 43.0; 179; 240mi2CMa ; 3.03; 24000;occ; 86; 0;41030

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3; 2214.3; 04-JAN-2010 12:52:49; Dark ; 47.5; 44; 24Gam Gem ; 1.93; 11000;occ; 95; 0;41031
4; 2313.6; 04-JAN-2010 12:54:29; Bright; 48.0; 151; 13Mu Gem ; 2.89; 3000;occ; 96; 0;41031
5; 2556.0; 04-JAN-2010 12:58:31; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;41031
6; 2689.4; 04-JAN-2010 13:00:44; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;41031
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8; 3954.8; 04-JAN-2010 13:21:50; Bright; 47.0; 55; 79Zet UMa ; 2.06; 10200;occ; 94; 0;41031
9; 4354.7; 04-JAN-2010 13:28:30; Bright; 43.0; 180; 27Gam Boo ; 3.04; 8000;occ; 86; 0;41031
10; 4585.4; 04-JAN-2010 13:32:20; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;41031
11; 4906.7; 04-JAN-2010 13:37:42; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;41031
12; 5218.8; 04-JAN-2010 13:42:54; Bright; 44.0; 104; 27Bet Lib ; 2.61; 13100;occ; 88; 0;41031
13; 5385.6; 04-JAN-2010 13:45:41; Dark ; 44.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 89; 0;41031
14; 5805.2; 04-JAN-2010 13:52:40; Dark ; 56.0; 54; 5The Cen ; 2.06; 4500;occ; 112; 0;41031
15; 5965.1; 04-JAN-2010 13:55:20; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;41031
16; 6066.9; 04-JAN-2010 13:57:02; Dark ; 38.5; 77; Eps Cen ; 2.30; 28000;occ; 77; 0;41031

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 18; 6293.3; 04-JAN-2010 14:00:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41031
 19; 6557.2; 04-JAN-2010 14:05:12; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;41031
 20; 6693.5; 04-JAN-2010 14:07:29; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;41031
 21; 6807.8; 04-JAN-2010 14:09:23; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;41031
 22; 6977.7; 04-JAN-2010 14:12:13; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;41031
 23; 7108.7; 04-JAN-2010 14:14:24; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;41031
 24; 7226.6; 04-JAN-2010 14:16:22; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;41031
 25; 7390.2; 04-JAN-2010 14:19:05; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;41031
 26; 7480.6; 04-JAN-2010 14:20:36; Dark ; 41.0; 179; 240mi2CMa ; 3.03; 24000;occ; 82; 0;41031

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 5; 2313.6; 04-JAN-2010 14:35:05; Bright; 46.0; 151; 13Mu Gem ; 2.89; 3000;occ; 92; 0;41032
 6; 2555.9; 04-JAN-2010 14:39:07; Bright; 55.0; 107; 37The Aur ; 2.65; 11000;occ; 110; 0;41032
 7; 2689.5; 04-JAN-2010 14:41:20; Bright; 39.5; 42; 34Bet Aur ; 1.90; 10200;occ; 79; 0;41032
 8; 3685.6; 04-JAN-2010 14:57:57; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;41032
 9; 3954.3; 04-JAN-2010 15:02:25; Bright; 49.0; 55; 79Zet UMa ; 2.06; 10200;occ; 98; 0;41032
 10; 4354.6; 04-JAN-2010 15:09:06; Bright; 65.0; 180; 27Gam Boo ; 3.04; 8000;occ; 130; 0;41032
 11; 4585.6; 04-JAN-2010 15:12:57; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;41032
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 13; 5219.5; 04-JAN-2010 15:23:30; Bright; 39.5; 104; 27Bet Lib ; 2.61; 13100;occ; 79; 0;41032
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 16; 5965.9; 04-JAN-2010 15:35:57; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;41032
 17; 6067.7; 04-JAN-2010 15:37:39; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;41032
 18; 6185.4; 04-JAN-2010 15:39:36; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41032
 19; 6294.3; 04-JAN-2010 15:41:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41032
 20; 6558.1; 04-JAN-2010 15:45:49; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;41032
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 22; 6808.3; 04-JAN-2010 15:49:59; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;41032
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 18; 614.0; 14-JAN-2010 07:09:59; Dark ; 36.5; 159; Ups Car ; 2.92; 7200;occ; 73; 0;41171
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 5; 2672.6; 14-JAN-2010 07:44:18; Bright; 37.5; 42; 34Bet Aur ; 1.90; 10200;occ; 75; 0;41171
 6; 3424.9; 14-JAN-2010 07:56:50; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;41171
 7; 3666.1; 14-JAN-2010 08:00:51; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;41171
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 9; 4451.4; 14-JAN-2010 08:13:56; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;41171
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 13; 5174.4; 14-JAN-2010 08:26:00; Bright; 53.0; 98; 13Zet Oph ; 2.57; 30000;occ; 106; 0;41171
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 19; 6067.4; 14-JAN-2010 08:40:52; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;41171
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 23; 6563.4; 14-JAN-2010 08:49:09; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;41171
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30; 7422.5; 14-JAN-2010 10:44:04; Dark ; 44.0; 23; 21Eps CMa ; 1.50; 26000;occ; 88; 0;41172
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14; 530.6; 25-JAN-2010 06:22:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41328
15; 675.5; 25-JAN-2010 06:25:01; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;41328
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22; 2413.9; 25-JAN-2010 06:53:59; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;41328
23; 2549.6; 25-JAN-2010 06:56:15; Bright; 29.0; 107; 37The Aur ; 2.65; 11000;occ; 58; 0;41328
24; 2677.6; 25-JAN-2010 06:58:23; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;41328
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13; 792.8; 25-JAN-2010 21:32:22; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;41337
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22; 2296.5; 25-JAN-2010 21:57:25; Bright; 40.0; 151; 13Mu Gem ; 2.89; 3000;occ; 80; 0;41337
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 21; 2411.0; 25-JAN-2010 23:39:56; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;41338
 22; 2678.3; 25-JAN-2010 23:44:23; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;41338
 23; 3426.7; 25-JAN-2010 23:56:51; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;41338
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11; 4787.0; 29-JAN-2010 10:28:52; Bright; 54.0; 59; 55Alp Oph ; 2.08; 8900;occ; 108; 0;41387
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14; 5547.6; 29-JAN-2010 10:41:32; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;41387
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 6; 3622.6; 29-JAN-2010 11:50:03; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;41388
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 9; 4299.7; 29-JAN-2010 13:41:56; Bright; 46.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 92; 0;41389
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 5; 2460.7; 29-JAN-2010 14:51:53; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;41390

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7; 3900.4; 30-JAN-2010 08:01:52; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;41400
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 4; 2458.6; 30-JAN-2010 14:20:14; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;41404
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 6; 3618.8; 30-JAN-2010 14:39:34; Bright; 43.5; 60; 7Bet UMi ; 2.08; 3950;occ; 87; 0;41404

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9; 4302.3; 30-JAN-2010 14:50:58; Bright; 39.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 78; 0;41404
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11; 4791.9; 30-JAN-2010 14:59:07; Bright; 48.5; 59; 55Alp Oph ; 2.08; 8900;occ; 97; 0;41404
12; 4919.6; 30-JAN-2010 15:01:15; Bright; 35.0; 126; 60Bet Oph ; 2.77; 4250;occ; 70; 0;41404
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14; 5558.8; 30-JAN-2010 15:11:54; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;41404
15; 5638.6; 30-JAN-2010 15:13:14; Dark ; 47.0; 158; 6Pi Sco ; 2.91; 28000;occ; 94; 0;41404
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21; 6495.6; 30-JAN-2010 15:27:31; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;41404
22; 6611.7; 30-JAN-2010 15:29:27; Dark ; 45.0; 99; Del Cen ; 2.58; 26000;occ; 90; 0;41404
23; 6738.2; 30-JAN-2010 15:31:34; Dark ; 39.5; 159; Ups Car ; 2.92; 7200;occ; 79; 0;41404
24; 6852.9; 30-JAN-2010 15:33:28; Dark ; 36.5; 71; Iot Car ; 2.25; 7700;occ; 73; 0;41404
25; 6958.5; 30-JAN-2010 15:35:14; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;41404
26; 7111.1; 30-JAN-2010 15:37:46; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;41404
27; 7236.1; 30-JAN-2010 15:39:52; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;41404

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5; 2458.7; 30-JAN-2010 16:00:50; Bright; 38.0; 24; 66Alp Gem ; 1.58; 10200;occ; 76; 0;41405
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7; 3618.5; 30-JAN-2010 16:20:10; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;41405
8; 3899.6; 30-JAN-2010 16:24:51; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;41405
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12; 4792.0; 30-JAN-2010 16:39:43; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;41405
13; 4919.6; 30-JAN-2010 16:41:51; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;41405
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19; 6129.7; 30-JAN-2010 17:02:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41405
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22; 6496.2; 30-JAN-2010 17:08:08; Dark ; 45.0; 12; Alp1Cru ; 0.77; 30000;occ; 90; 0;41405
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25; 6853.4; 30-JAN-2010 17:14:05; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;41405
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4; 2339.3; 30-JAN-2010 17:39:27; Bright; 36.5; 170; 27Eps Gem ; 3.00; 9700;occ; 73; 0;41406
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6; 3427.6; 30-JAN-2010 17:57:35; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;41406
7; 3618.3; 30-JAN-2010 18:00:46; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;41406
8; 3899.8; 30-JAN-2010 18:05:27; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;41406
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13; 4920.0; 30-JAN-2010 18:22:27; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;41406
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