

GOMOS Daily Report 20-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	23JAN2010 04:56:01
Data source version	GOMOS/5.00L04
Start time of products	20JAN2010 00:02:38
Stop time of products	20JAN2010 23:56:50
Store outputs in DB	Yes
Nb of level 1b prods	156
Nb of prods with errors	2

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

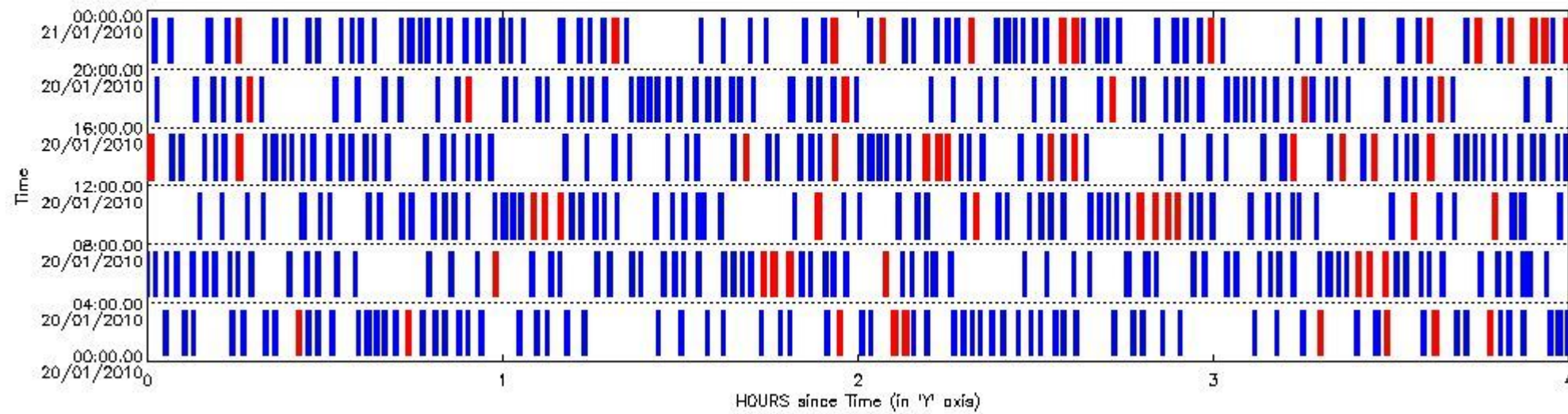
2.1 Level 0 products arrived in PCF (see template [here](#))

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
20-JAN-2010 00:24:59	GamLup	131	41252
20-JAN-2010 00:43:27	DeIVel	46	41253
20-JAN-2010 01:56:23	35EtaOph	86	41253
20-JAN-2010 02:05:36	GamLup	131	41253
20-JAN-2010 02:07:29	BetLup	109	41253
20-JAN-2010 03:17:34	23BetDra	130	41254
20-JAN-2010 03:28:48	55AlpOph	59	41254
20-JAN-2010 03:36:59	35EtaOph	86	41254
20-JAN-2010 03:46:12	GamLup	131	41254
20-JAN-2010 04:58:10	23BetDra	130	41255
20-JAN-2010 05:43:26	IotCar	71	41256
20-JAN-2010 05:45:16	DeIVel	46	41256
20-JAN-2010 05:47:56	Gam2Vel	34	41256
20-JAN-2010 06:04:07	10AlpCMi	8	41256
20-JAN-2010 07:24:02	IotCar	71	41257

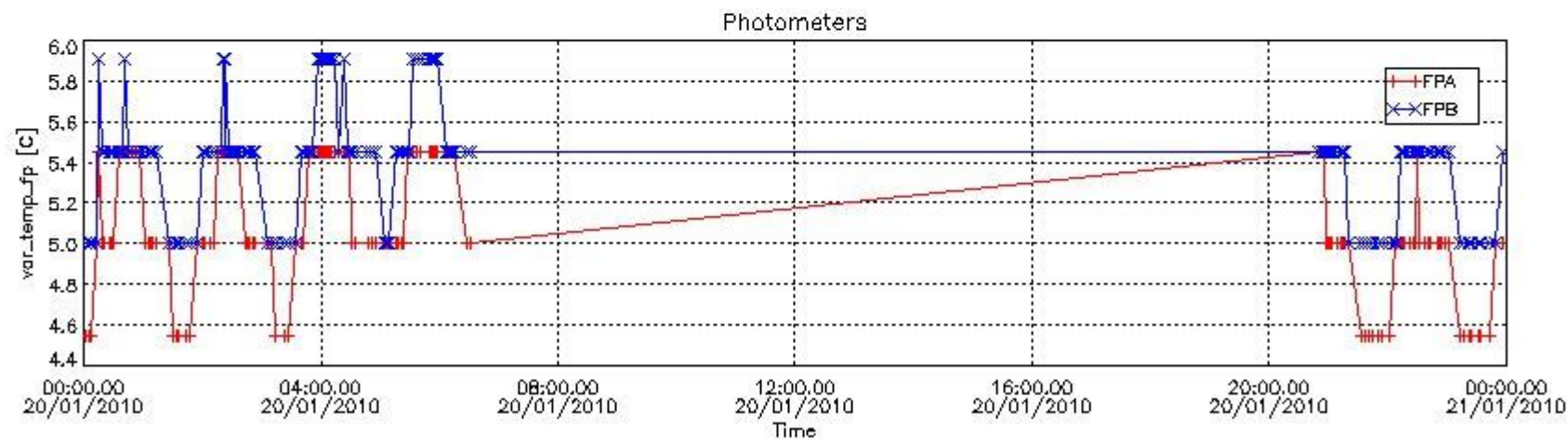
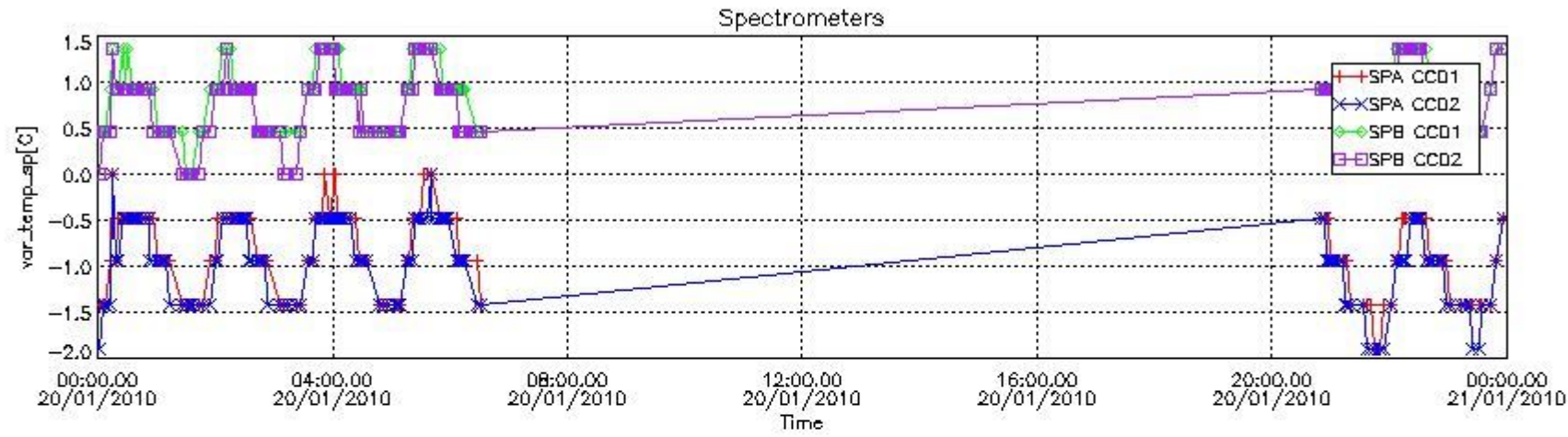
20-JAN-2010 07:25:52	DelVel	46	41257
20-JAN-2010 07:28:32	Gam2Vel	34	41257
20-JAN-2010 09:04:38	lotCar	71	41258
20-JAN-2010 09:06:29	DelVel	46	41258
20-JAN-2010 09:09:08	Gam2Vel	34	41258
20-JAN-2010 09:52:46	7BetUMi	60	41258
20-JAN-2010 10:19:24	35EtaOph	86	41258
20-JAN-2010 10:47:05	DelVel	46	41259
20-JAN-2010 10:49:44	Gam2Vel	34	41259
20-JAN-2010 10:51:52	ZetPup	70	41259
20-JAN-2010 10:53:26	PiPup	117	41259
20-JAN-2010 11:33:22	7BetUMi	60	41259
20-JAN-2010 11:46:56	40ZetHer	133	41259
20-JAN-2010 12:00:00	35EtaOph	86	41259
20-JAN-2010 12:14:58	Alp1Cen	4	41260
20-JAN-2010 13:40:36	35EtaOph	86	41260
20-JAN-2010 13:55:35	Alp1Cen	4	41261
20-JAN-2010 14:10:57	Gam2Vel	34	41261
20-JAN-2010 14:13:04	ZetPup	70	41261
20-JAN-2010 14:14:38	PiPup	117	41261
20-JAN-2010 14:31:55	13MuGem	151	41261
20-JAN-2010 14:36:07	37TheAur	107	41261
20-JAN-2010 15:13:01	55AlpOph	59	41261
20-JAN-2010 15:21:12	35EtaOph	86	41261
20-JAN-2010 15:26:35	26EpsSco	75	41261
20-JAN-2010 15:36:11	Alp1Cen	4	41262
20-JAN-2010 16:16:43	37TheAur	107	41262
20-JAN-2010 16:53:37	55AlpOph	59	41262
20-JAN-2010 17:57:19	37TheAur	107	41263
20-JAN-2010 18:42:25	35EtaOph	86	41263
20-JAN-2010 19:14:53	ZetPup	70	41264
20-JAN-2010 19:37:55	37TheAur	107	41264
20-JAN-2010 20:14:49	55AlpOph	59	41264
20-JAN-2010 21:18:31	37TheAur	107	41265
20-JAN-2010 21:55:25	55AlpOph	59	41265
20-JAN-2010 22:03:37	35EtaOph	86	41265
20-JAN-2010 22:18:37	Alp1Cen	4	41266
20-JAN-2010 22:33:58	Gam2Vel	34	41266
20-JAN-2010 22:36:06	ZetPup	70	41266
20-JAN-2010 22:59:07	37TheAur	107	41266
20-JAN-2010 23:36:01	55AlpOph	59	41266
20-JAN-2010 23:44:14	35EtaOph	86	41266
20-JAN-2010 23:49:37	26EpsSco	75	41266
20-JAN-2010 23:53:31	GamLup	131	41266
20-JAN-2010 23:55:26	BetLup	109	41266
20-JAN-2010 23:59:13	Alp1Cen	4	41267

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_1PNPDE20100120_000238_000000482086_00116_41252_5537.N1	20-JAN-2010 00:02:38	Bright	48.000	133	40Zet Her	2.8070	6000.0	96	41252	No
2	GOM_TRA_1PNPDE20100120_000550_000000392086_00116_41252_5538.N1	20-JAN-2010 00:05:50	Bright	39.000	127	27Bet Her	2.7810	4700.0	78	41252	No
3	GOM_TRA_1PNPDE20100120_000730_000000342086_00116_41252_5539.N1	20-JAN-2010 00:07:30	Bright	33.500	59	55Alp Oph	2.0800	8900.0	67	41252	No
4	GOM_TRA_1PNPDE20100120_001343_000000472086_00116_41252_5540.N1	20-JAN-2010 00:13:43	Bright	46.500	120	1Del Oph	2.7340	3200.0	93	41252	No
5	GOM_TRA_1PNPDE20100120_001541_000000522086_00116_41252_5530.N1	20-JAN-2010 00:15:41	Bright	52.000	86	35Eta Oph	2.4300	10200.	104	41252	Yes
6	GOM_TRA_1PNPDE20100120_001929_000000542086_00116_41252_5531.N1	20-JAN-2010 00:19:29	Twilight	54.000	16	21Alp Sco	1.0200	3000.0	108	41252	No
7	GOM_TRA_1PNPDE20100120_002103_000000432086_00116_41252_5532.N1	20-JAN-2010 00:21:03	Twilight	43.000	75	26Eps Sco	2.2910	4250.0	86	41252	No
8	GOM_TRA_1PNPDE20100120_002647_000000432086_00116_41252_5533.N1	20-JAN-2010 00:26:47	Dark	42.500	109	Bet Lup	2.6770	26000.	85	41252	No

127	GOM_TRA_1PNPDE20100120_215340_000000582086_00129_41265_5696.N1	20-JAN-2010 21:53:40	Bright	58.000	127	27Bet Her	2.7810	4700.0	116	41265	No
128	GOM_TRA_1PNPDE20100120_220137_000000492086_00129_41265_5697.N1	20-JAN-2010 22:01:37	Bright	49.000	120	1Del Oph	2.7340	3200.0	98	41265	No
129	GOM_TRA_1PNPDE20100120_220722_000000532086_00129_41265_5700.N1	20-JAN-2010 22:07:22	Twilight	52.500	16	21Alp Sco	1.0200	3000.0	105	41265	No
130	GOM_TRA_1PNPDE20100120_220855_000000442086_00129_41265_5701.N1	20-JAN-2010 22:08:55	Twilight	44.000	75	26Eps Sco	2.2910	4250.0	88	41265	No
131	GOM_TRA_1PNPDE20100120_221249_000000402086_00129_41265_5702.N1	20-JAN-2010 22:12:49	Dark	40.000	131	Gam Lup	2.8000	26000.	80	41265	No
132	GOM_TRA_1PNPDE20100120_221444_000000422086_00129_41265_5703.N1	20-JAN-2010 22:14:44	Dark	42.000	109	Bet Lup	2.6770	26000.	84	41265	No
133	GOM_TRA_1PNPDE20100120_221614_000000422086_00129_41265_5704.N1	20-JAN-2010 22:16:14	Dark	41.500	78	Alp Lup	2.3040	28000.	83	41265	No
134	GOM_TRA_1PNPDE20100120_222301_000000412086_00130_41266_5705.N1	20-JAN-2010 22:23:01	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	41266	No
135	GOM_TRA_1PNPDE20100120_222610_000000382086_00130_41266_5706.N1	20-JAN-2010 22:26:10	Dark	37.500	124	The Car	2.7640	30000.	75	41266	No
136	GOM_TRA_1PNPDE20100120_222730_000000392086_00130_41266_5707.N1	20-JAN-2010 22:27:30	Dark	39.000	159	Ups Car	2.9200	7200.0	78	41266	No
137	GOM_TRA_1PNPDE20100120_222923_000000412086_00130_41266_5708.N1	20-JAN-2010 22:29:23	Dark	40.500	71	lot Car	2.2460	7700.0	81	41266	No
138	GOM_TRA_1PNPDE20100120_223113_000000442086_00130_41266_5709.N1	20-JAN-2010 22:31:13	Dark	43.500	46	Del Vel	1.9540	10600.	87	41266	No
139	GOM_TRA_1PNPDE20100120_223733_000000442086_00130_41266_5710.N1	20-JAN-2010 22:37:33	Straylight	44.000	117	Pi Pup	2.7060	3800.0	88	41266	No
140	GOM_TRA_1PNPDE20100120_224003_000000432086_00130_41266_5711.N1	20-JAN-2010 22:40:03	Straylight	42.500	23	21Eps CMa	1.5020	26000.	85	41266	No
141	GOM_TRA_1PNPDE20100120_224127_000000412086_00130_41266_5712.N1	20-JAN-2010 22:41:27	Straylight	40.500	179	24Omi2CMa	3.0320	24000.	81	41266	No
142	GOM_TRA_1PNPDE20100120_224338_000000422086_00130_41266_5713.N1	20-JAN-2010 22:43:38	Straylight	42.000	1	9Alp CMa	-1.4400	11000.	84	41266	No
143	GOM_TRA_1PNPDE20100120_224959_000000522086_00130_41266_5714.N1	20-JAN-2010 22:49:59	Tw_and_stray	52.000	8	10Alp CMi	0.40000	6500.0	104	41266	No
144	GOM_TRA_1PNPDE20100120_225304_000000522086_00130_41266_5715.N1	20-JAN-2010 22:53:04	Bright	52.000	44	24Gam Gem	1.9280	11000.	104	41266	No
145	GOM_TRA_1PNPDE20100120_225449_000000422086_00130_41266_5716.N1	20-JAN-2010 22:54:49	Bright	41.500	151	13Mu Gem	2.8900	3000.0	83	41266	No
146	GOM_TRA_1PNPDE20100120_225711_000000472086_00130_41266_5717.N1	20-JAN-2010 22:57:11	Bright	46.500	17	78Bet Gem	1.1610	4500.0	93	41266	No
147	GOM_TRA_1PNPDE20100120_230111_000000372086_00130_41266_5718.N1	20-JAN-2010 23:01:11	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	41266	No
148	GOM_TRA_1PNPDE20100120_231344_000000332086_00130_41266_5719.N1	20-JAN-2010 23:13:44	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	41266	No
149	GOM_TRA_1PNPDE20100120_231727_000000372086_00130_41266_5720.N1	20-JAN-2010 23:17:27	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	41266	No
150	GOM_TRA_1PNPDE20100120_232155_000000382086_00130_41266_5721.N1	20-JAN-2010 23:21:55	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	41266	No
151	GOM_TRA_1PNPDE20100120_232441_000000372086_00130_41266_5722.N1	20-JAN-2010 23:24:41	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	41266	No
152	GOM_TRA_1PNPDE20100120_233103_000000562086_00130_41266_5723.N1	20-JAN-2010 23:31:03	Bright	56.000	133	40Zet Her	2.8070	6000.0	112	41266	No
153	GOM_TRA_1PNPDE20100120_233416_000000402086_00130_41266_5724.N1	20-JAN-2010 23:34:16	Bright	39.500	127	27Bet Her	2.7810	4700.0	79	41266	No
154	GOM_TRA_1PNPDE20100120_234214_000000482086_00130_41266_5725.N1	20-JAN-2010 23:42:14	Bright	47.500	120	1Del Oph	2.7340	3200.0	95	41266	No
155	GOM_TRA_1PNPDE20100120_234758_000000492086_00130_41266_5719.N1	20-JAN-2010 23:47:58	Twilight	49.000	16	21Alp Sco	1.0200	3000.0	98	41266	No
156	GOM_TRA_1PNPDE20100120_235650_000000432086_00130_41266_5720.N1	20-JAN-2010 23:56:50	Dark	42.500	78	Alp Lup	2.3040	28000.	85	41266	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).

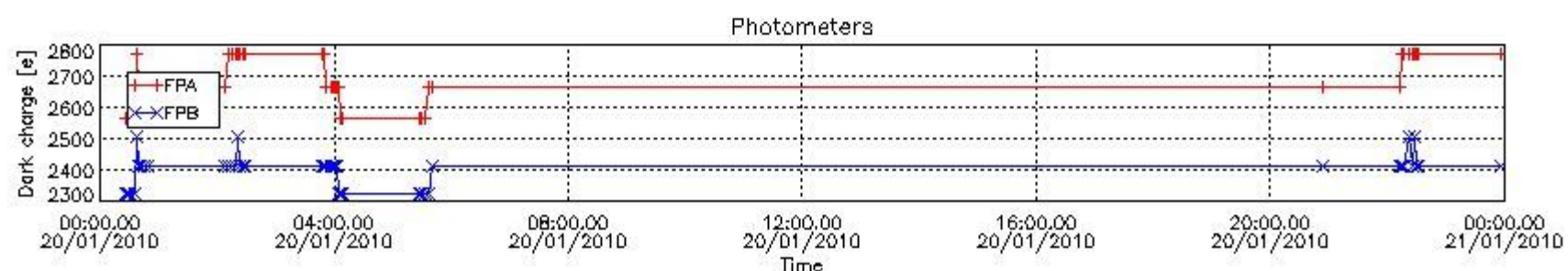
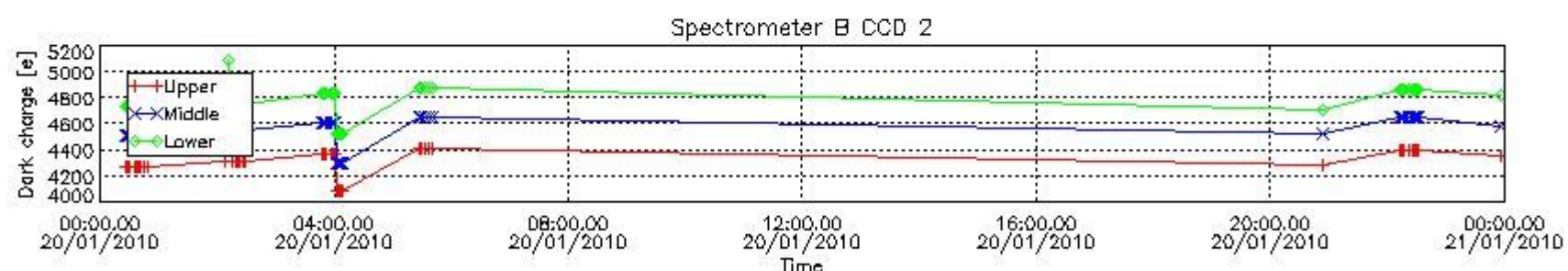
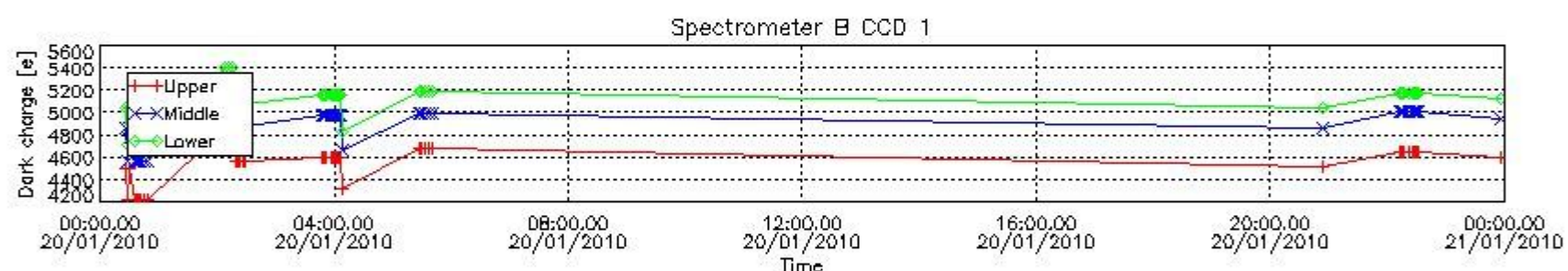
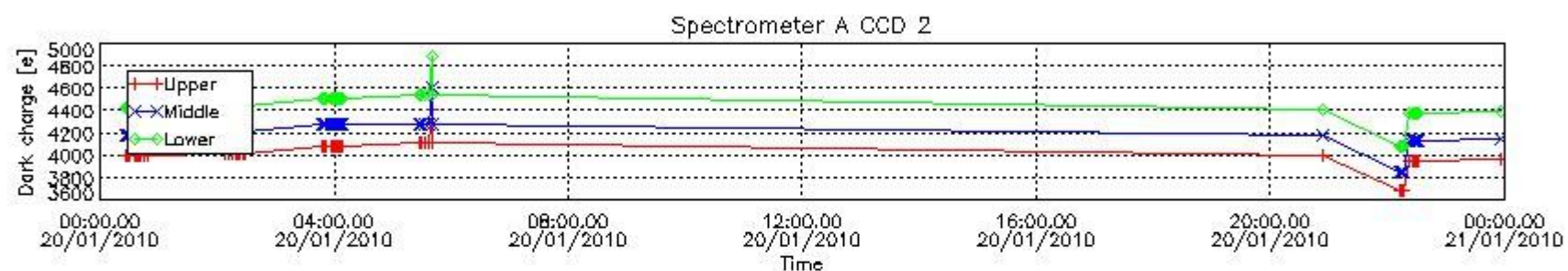
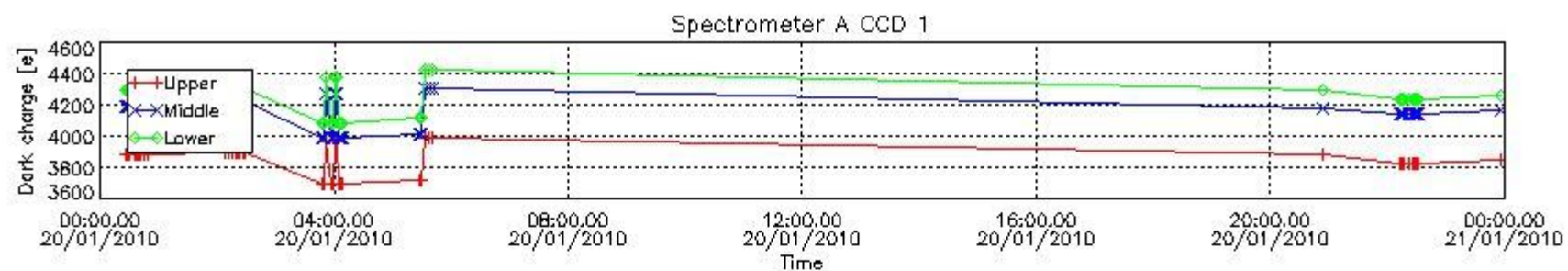
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20100120_205037_000000352086_00129_41265_5679.N1	DC map with no T dep.
GOM_TRA_1PNPDE20100120_205316_000000432086_00129_41265_5680.N1	DC map used
GOM_TRA_1PNPDE20100120_205524_000000432086_00129_41265_5681.N1	DC map used
GOM_TRA_1PNPDE20100120_205657_000000422086_00129_41265_5682.N1	DC map used
GOM_TRA_1PNPDE20100120_205927_000000422086_00129_41265_5683.N1	DC map used
GOM_TRA_1PNPDE20100120_210051_000000392086_00129_41265_5684.N1	DC map used
GOM_TRA_1PNPDE20100120_210302_000000422086_00129_41265_5685.N1	DC map used
GOM_TRA_1PNPDE20100120_210923_000000552086_00129_41265_5686.N1	DC map used
GOM_TRA_1PNPDE20100120_211228_000000512086_00129_41265_5687.N1	DC map used
GOM_TRA_1PNPDE20100120_211413_000000412086_00129_41265_5688.N1	DC map used
GOM_TRA_1PNPDE20100120_211636_000000472086_00129_41265_5689.N1	DC map used
GOM_TRA_1PNPDE20100120_212034_000000372086_00129_41265_5690.N1	DC map used
GOM_TRA_1PNPDE20100120_213308_000000342086_00129_41265_5691.N1	DC map used
GOM_TRA_1PNPDE20100120_213651_000000402086_00129_41265_5692.N1	DC map used

GOM_TRA_1PNPDE20100120_214119_000000422086_00129_41265_5693.N1	DC map used
GOM_TRA_1PNPDE20100120_214405_000000372086_00129_41265_5694.N1	DC map used
GOM_TRA_1PNPDE20100120_215027_000000562086_00129_41265_5695.N1	DC map used
GOM_TRA_1PNPDE20100120_215340_000000582086_00129_41265_5696.N1	DC map used
GOM_TRA_1PNPDE20100120_220137_000000492086_00129_41265_5697.N1	DC map used

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



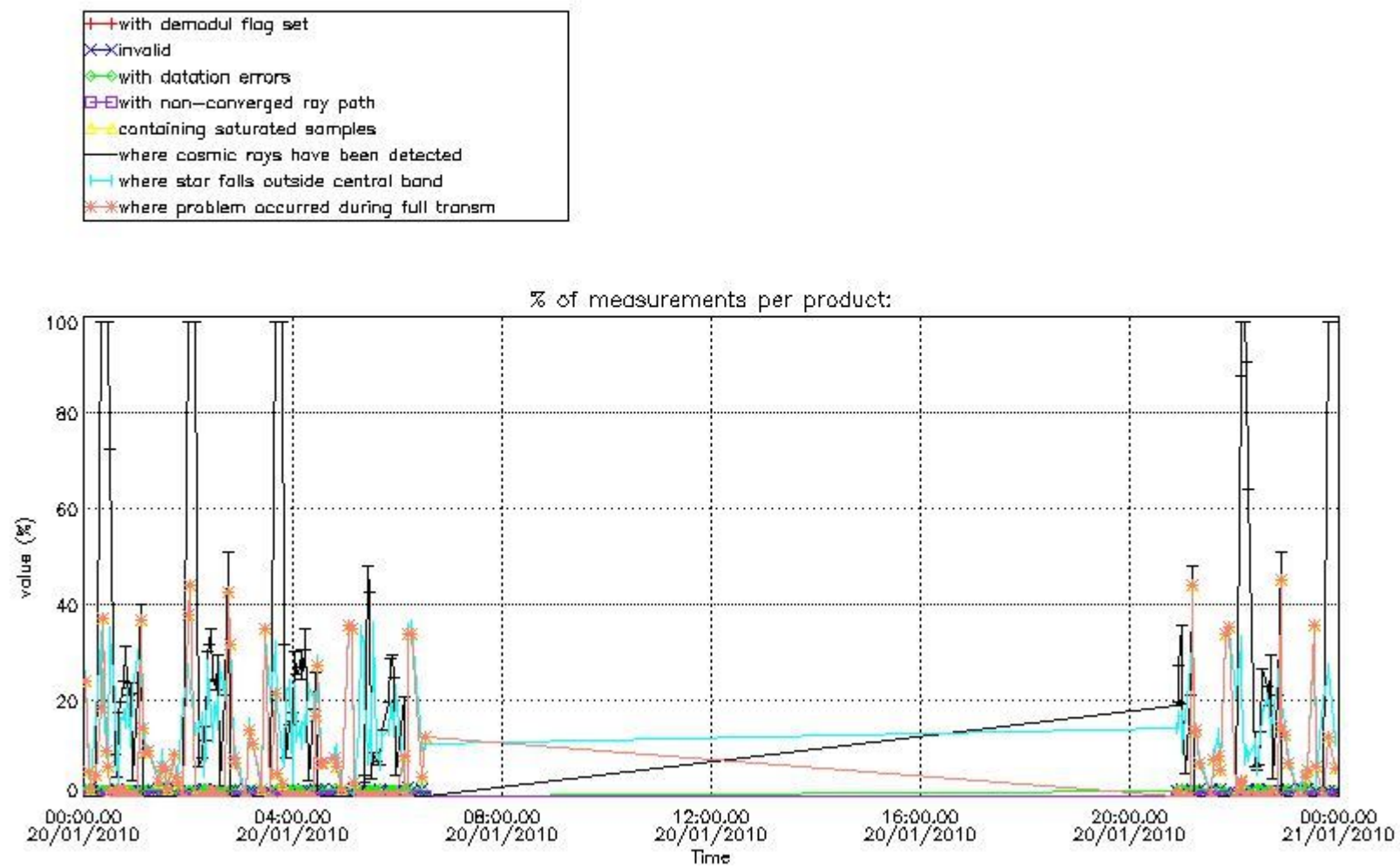
5. Demodulation flag and quality information monitoring

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.

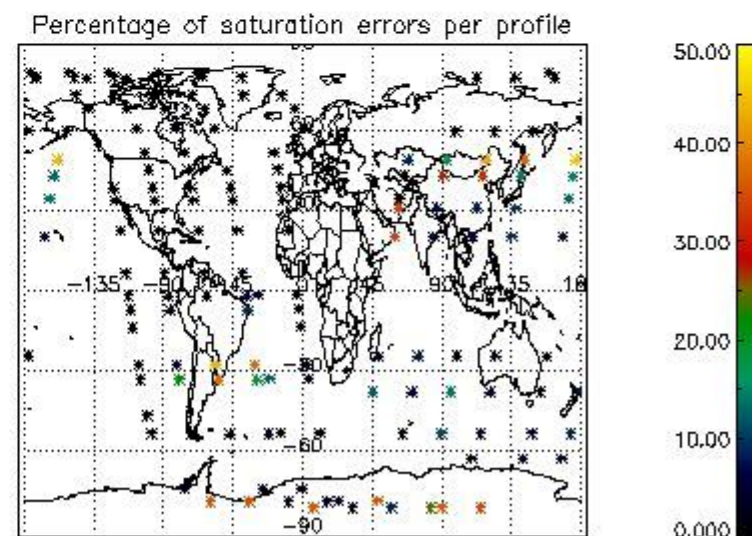
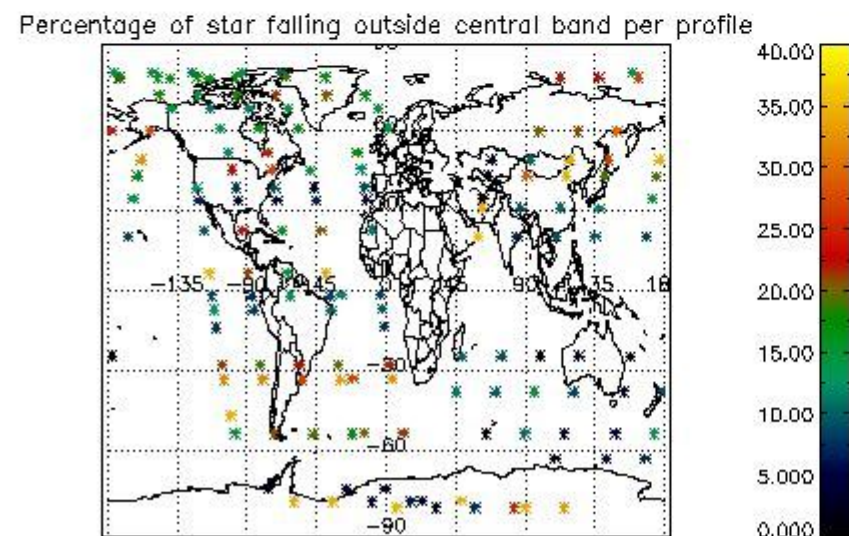
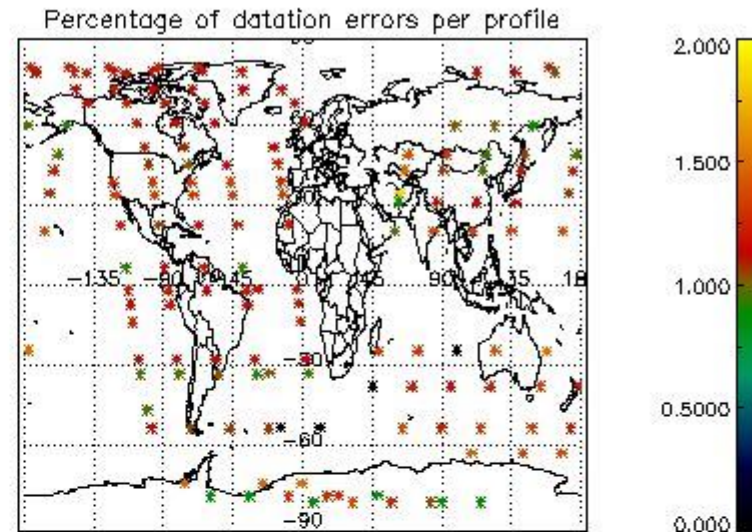
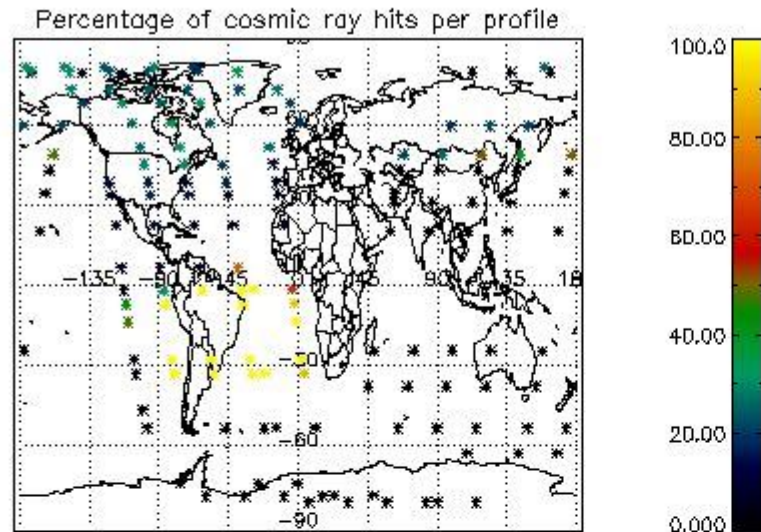
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	37.6623 %
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)



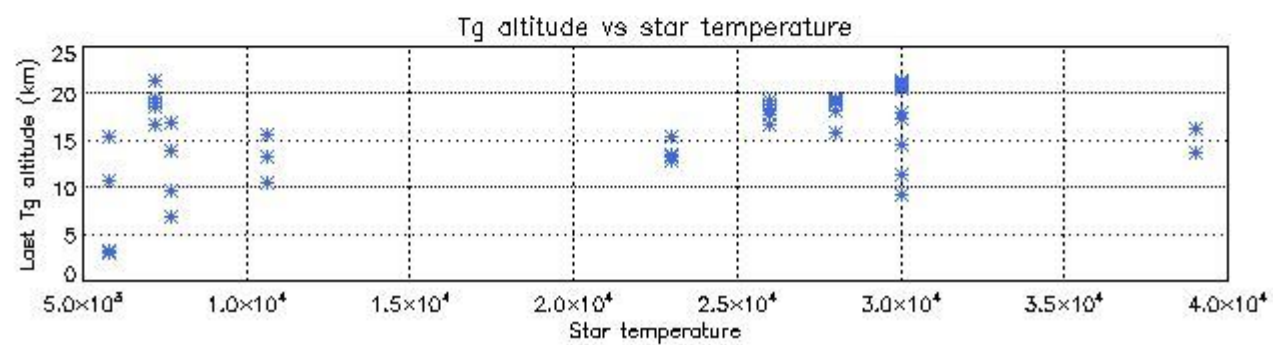
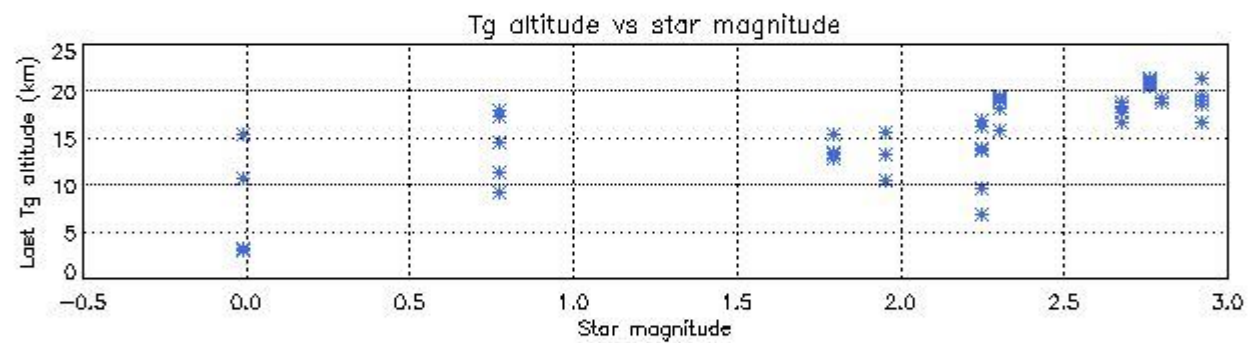
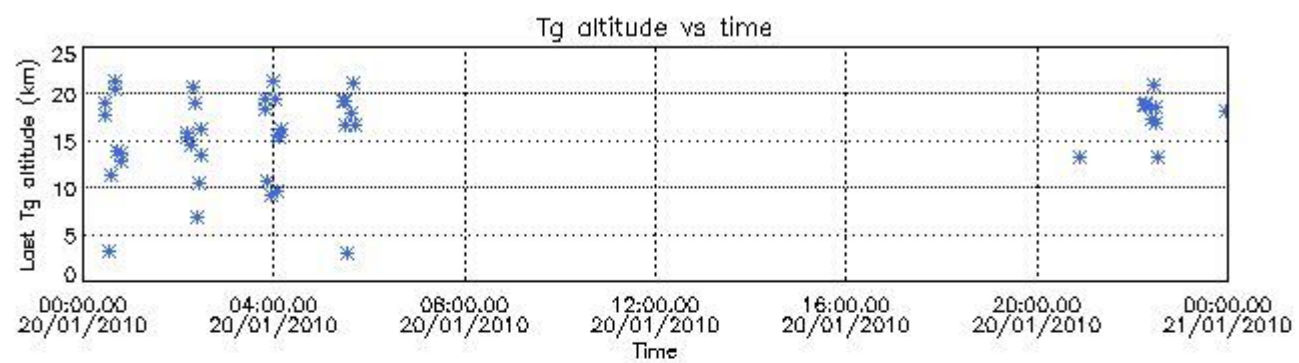
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.791	15.504	8.2921
St. deviation:	4.4977	7.1178	2.8539
Maximum:	21.283	27.235	12.261
Minimum:	3.0528	3.7728	4.1078
Number of data:	45.000	66.000	11.000

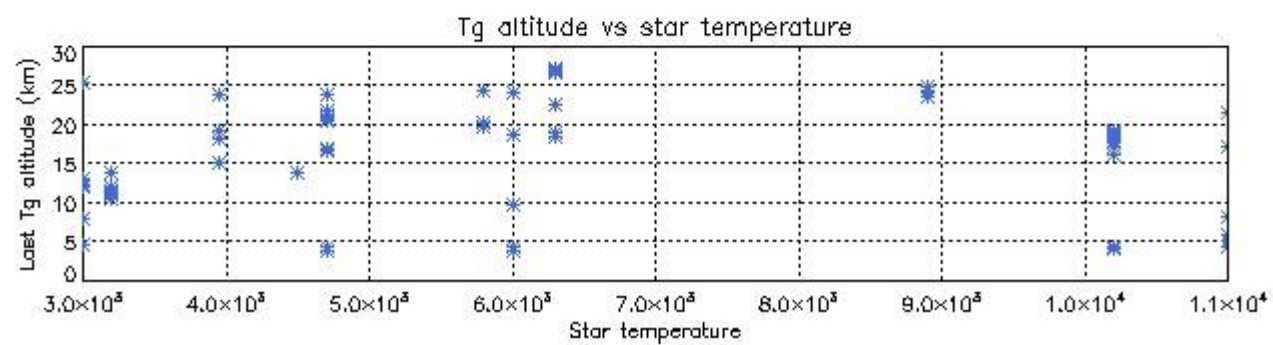
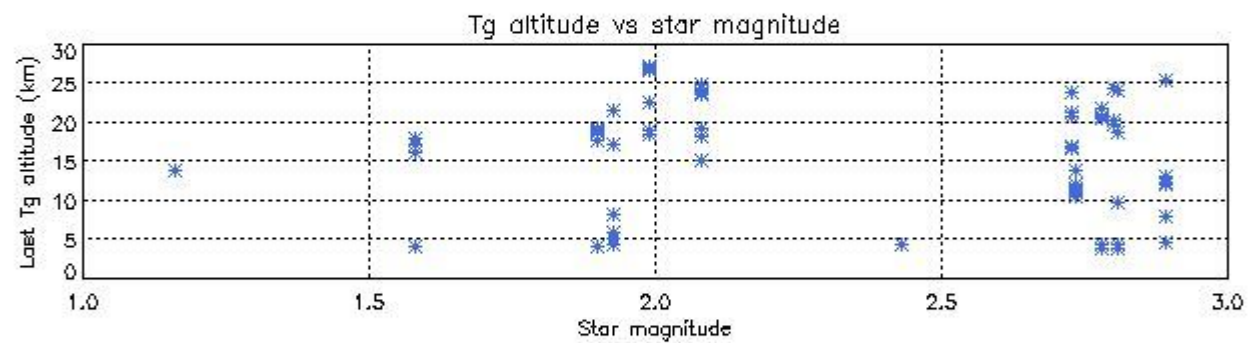
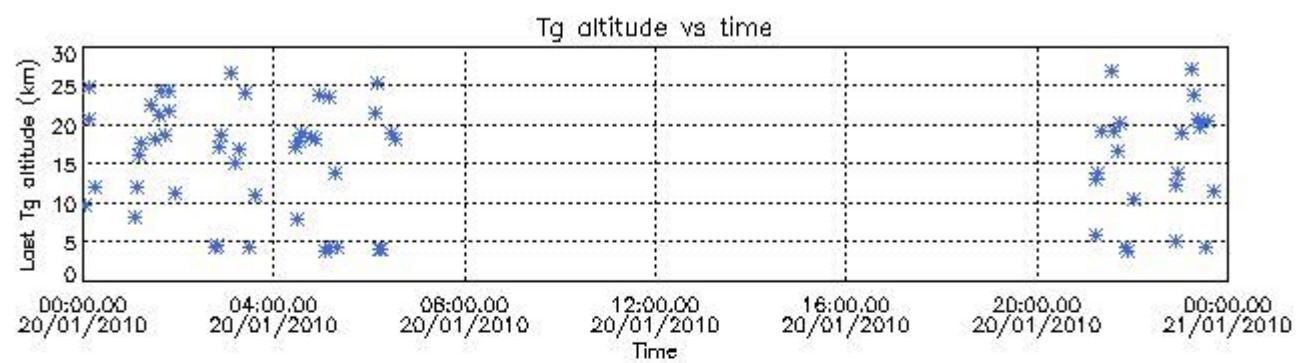
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



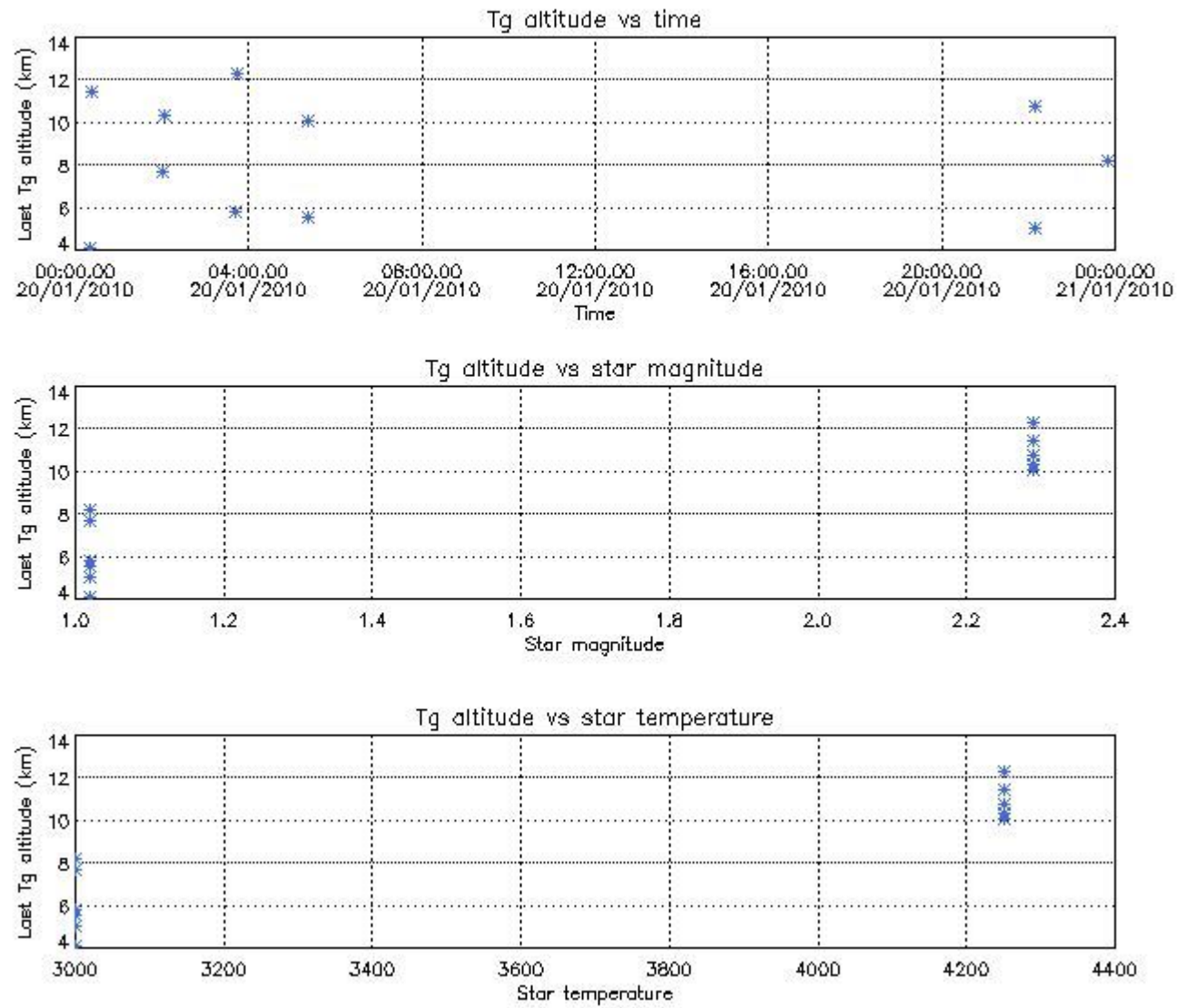
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

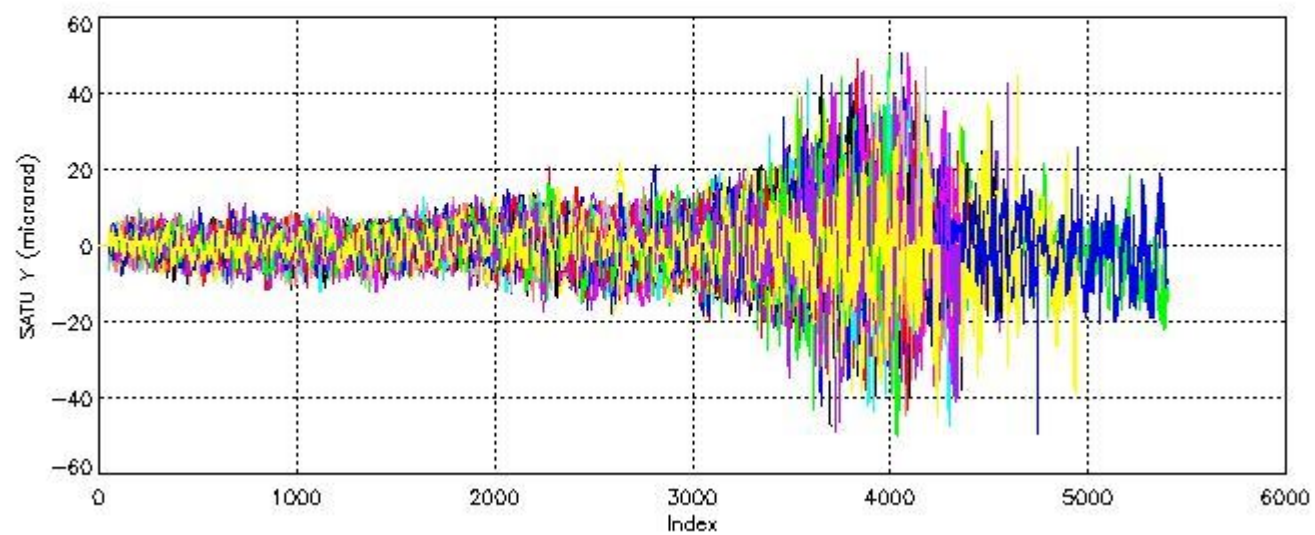
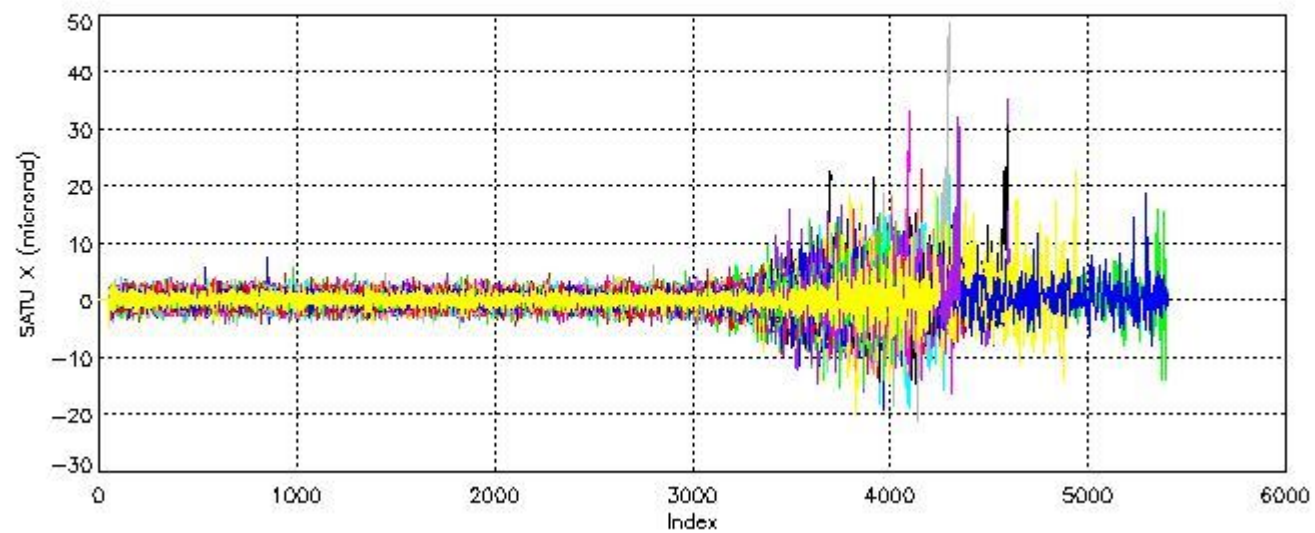


7. Star Acquisition and Tracking Unit (SATU)

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:	0.17049	0.077167	0.094287	-0.087302
St. deviation:	0.74174	2.6335	0.56814	2.7184
Maximum:	7.7000	10.800	3.5000	10.800
Minimum:	-4.8000	-11.700	-3.5000	-12.600

Number of data:	40900.	40900.	58100.	58100.
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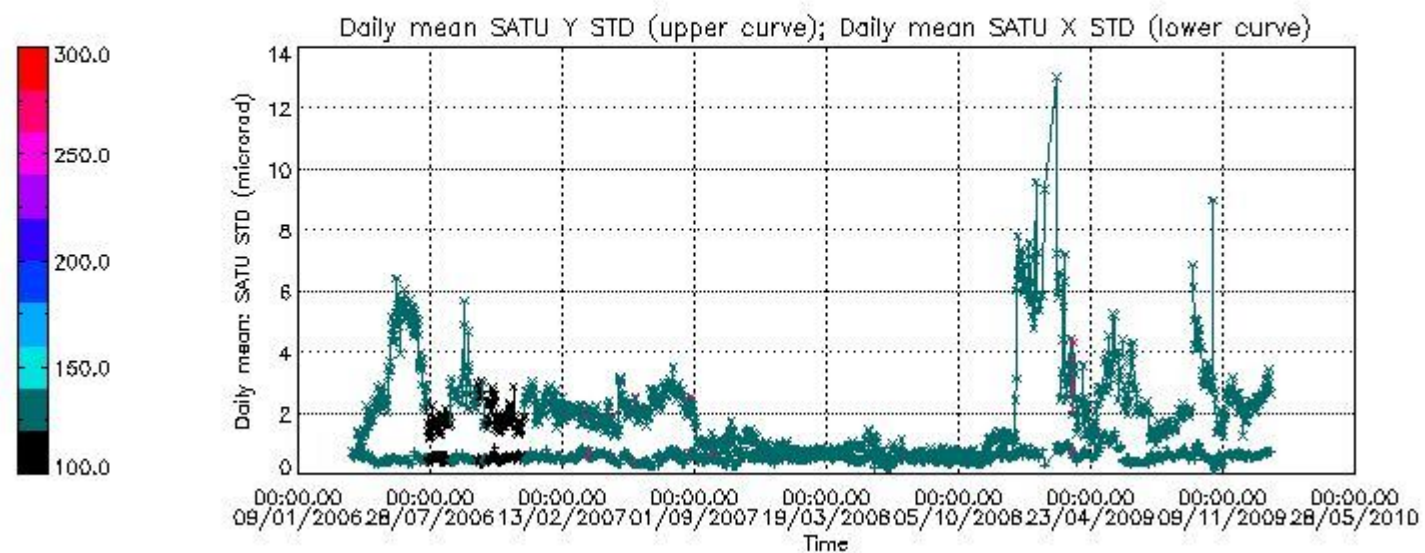
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

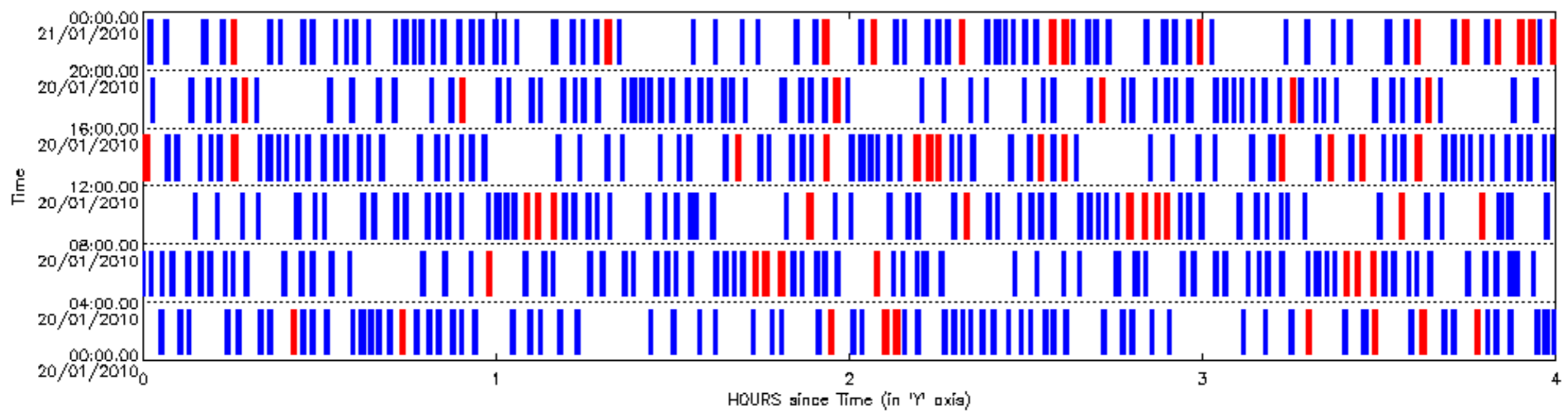
Lower curve: STD of SATU X axis

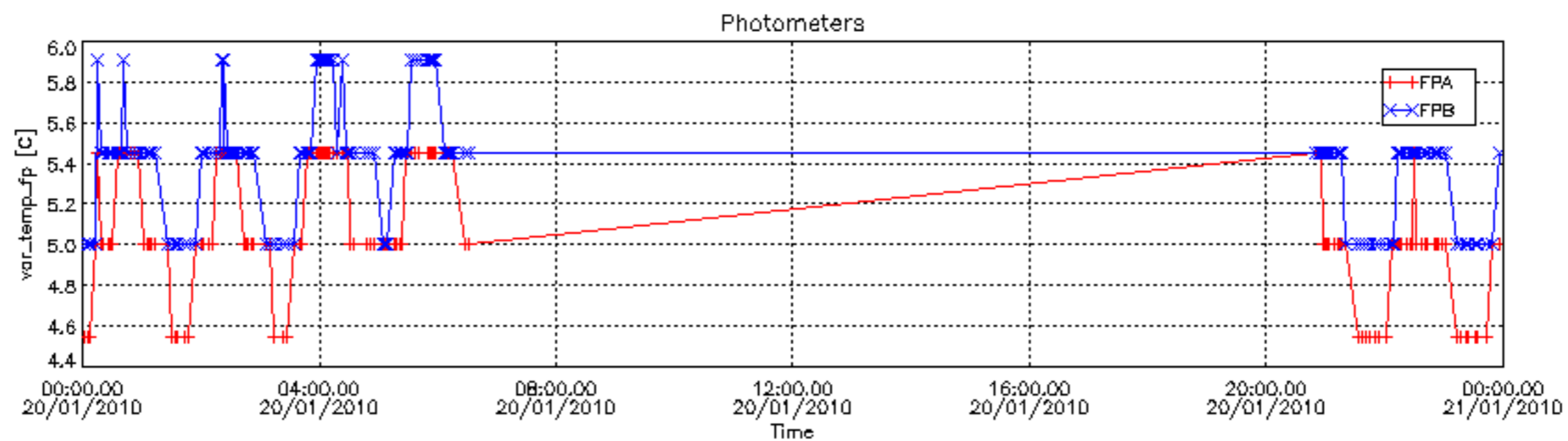
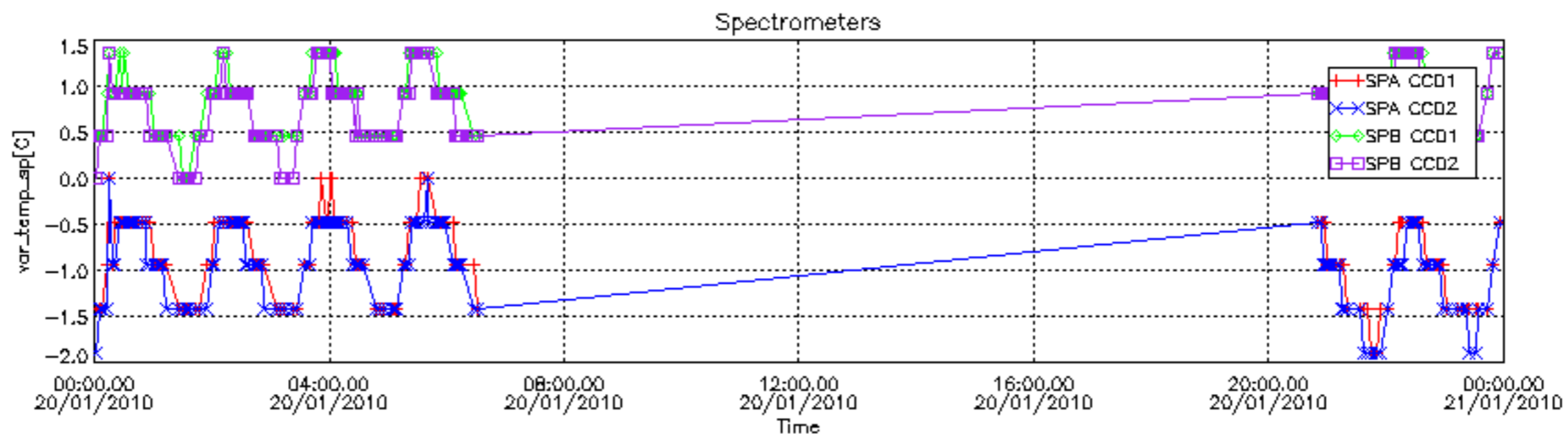


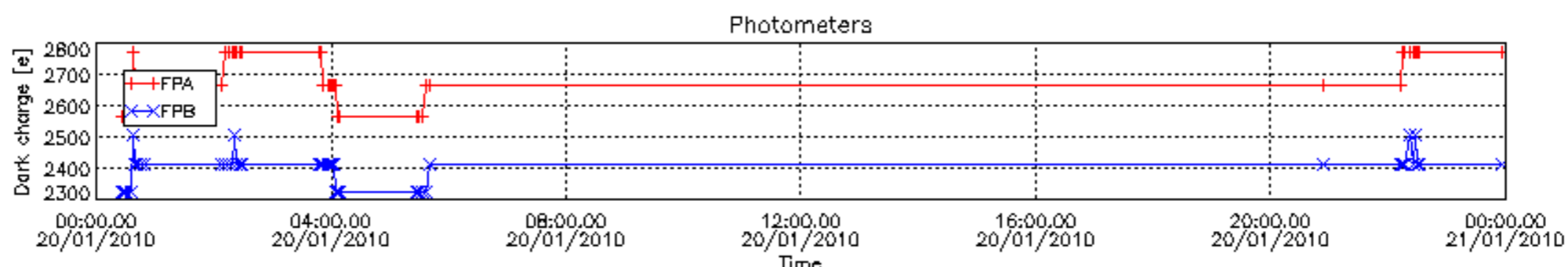
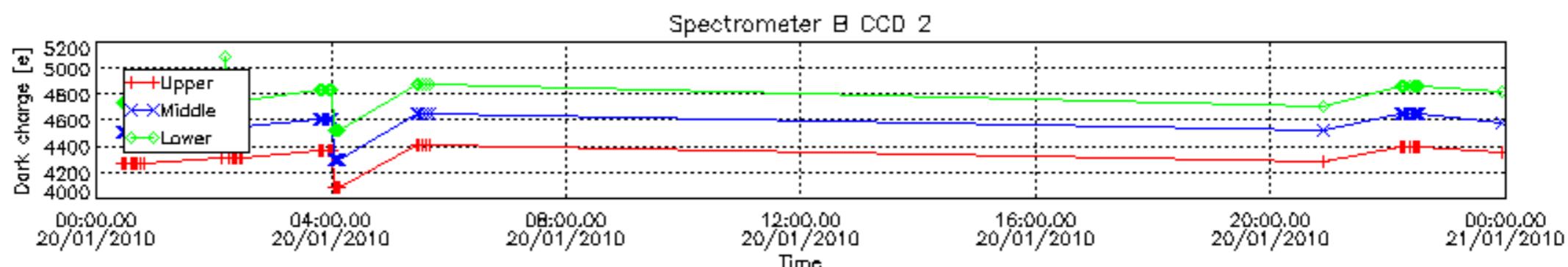
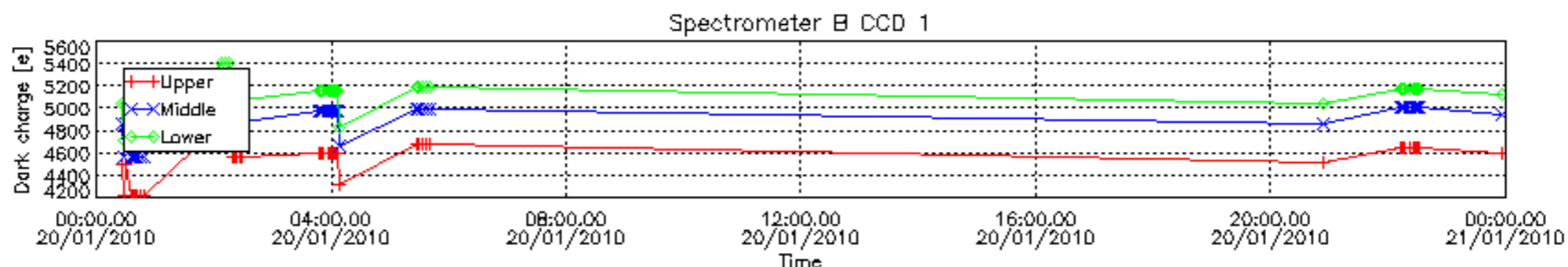
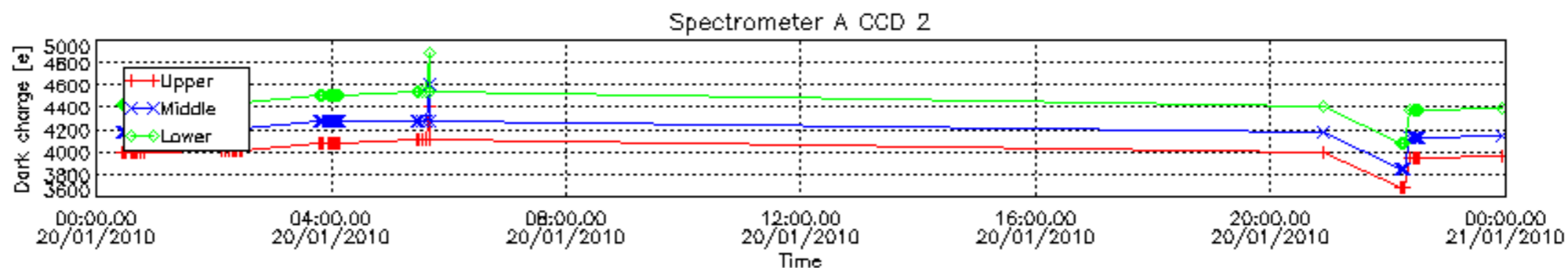
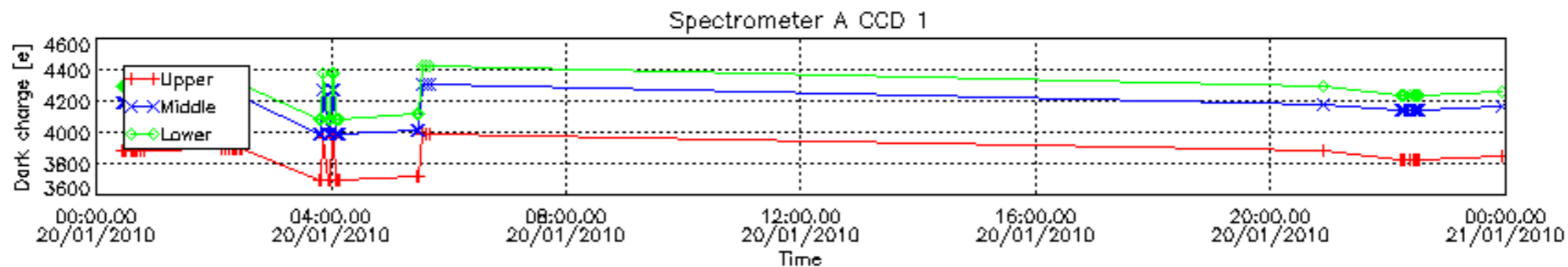
8. Auxiliary Data Files used for the production reported in section 2.4

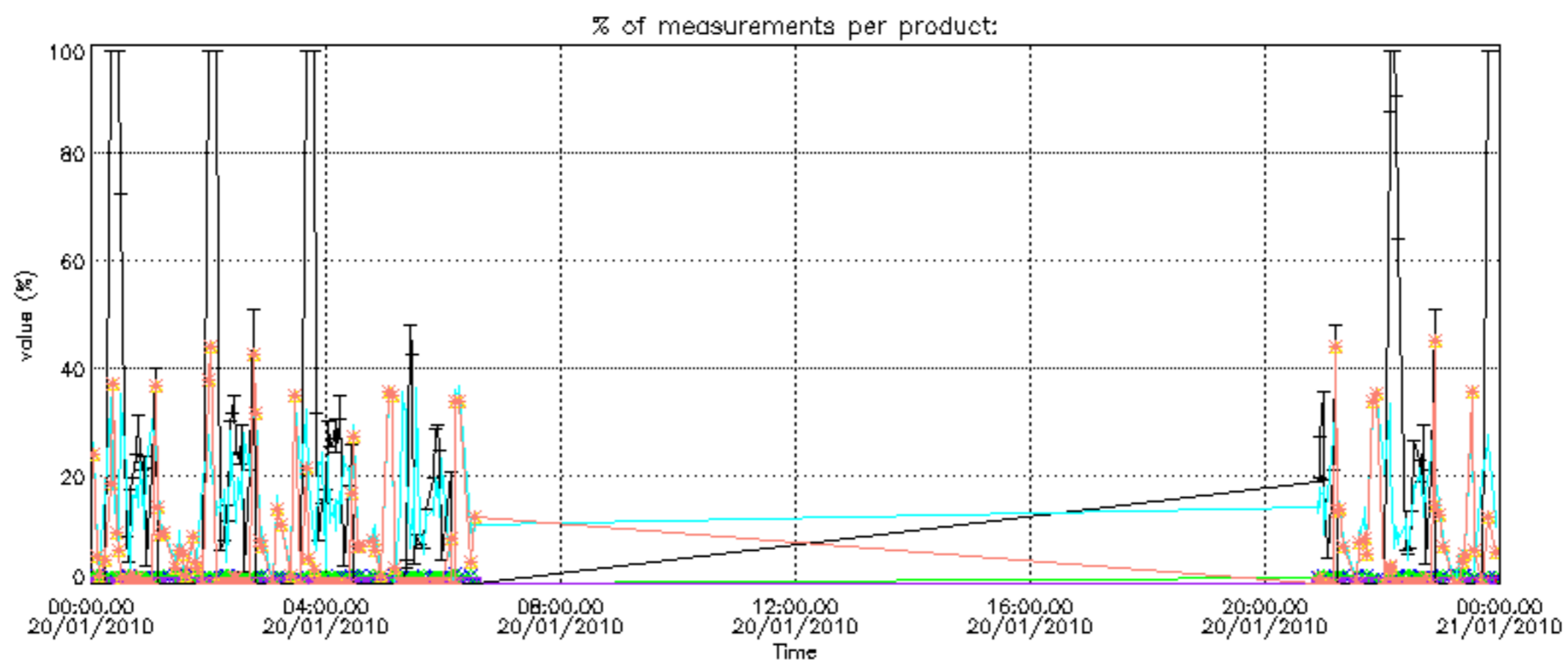
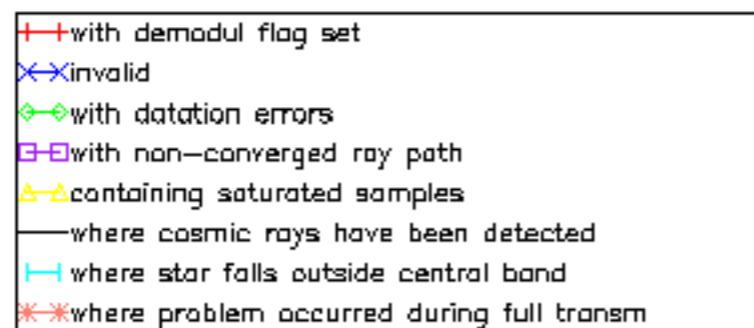
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	20-JAN-2010 00:02:38
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100112_145459_20100110_000000_20500101_000000	1	20-JAN-2010 00:02:38
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100120_153031_20100118_000000_20500101_000000	110	20-JAN-2010 20:50:37
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	20-JAN-2010 00:02:38
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-JAN-2010 00:02:38
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	20-JAN-2010 00:02:38
ECMWF_FILE	AUX_ECF_AXNECM20100119_062111_20100119_210000_20100120_090000	1	20-JAN-2010 00:02:38
ECMWF_FILE	AUX_ECF_AXNECM20100119_180112_20100120_030000_20100120_150000	55	20-JAN-2010 03:10:18
ECMWF_FILE	AUX_ECA_AXNECM20100120_060112_20100119_210000_20100120_090000	82	20-JAN-2010 04:50:53
ECMWF_FILE	AUX_ECF_AXNECM20100120_062111_20100120_150000_20100121_030000	110	20-JAN-2010 20:50:37
ECMWF_FILE	AUX_ECF_AXNECM20100120_062112_20100120_210000_20100121_090000	129	20-JAN-2010 22:07:22
OPTIONAL_ECMWF_FILE	MISSING	1	20-JAN-2010 00:02:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100119_223415_000057382086_00115_41251_9602.N1	1	20-JAN-2010 00:02:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100120_001512_000054192086_00116_41252_9603.N1	5	20-JAN-2010 00:15:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100120_015050_000041442086_00117_41253_9604.N1	33	20-JAN-2010 01:54:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100120_030513_000057382086_00118_41254_9605.N1	55	20-JAN-2010 03:10:18
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100120_204751_000041442086_00129_41265_9607.N1	110	20-JAN-2010 20:50:37
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100120_230112_20100120_121302_20100129_191240	129	20-JAN-2010 22:07:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100120_234311_000057382086_00130_41266_9609.N1	155	20-JAN-2010 23:47:58

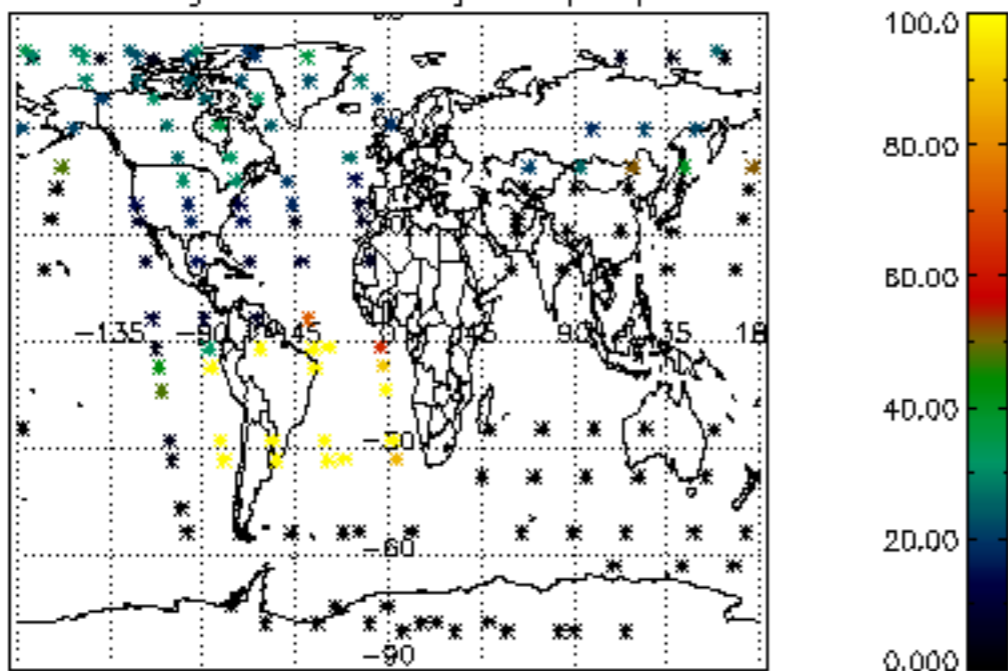




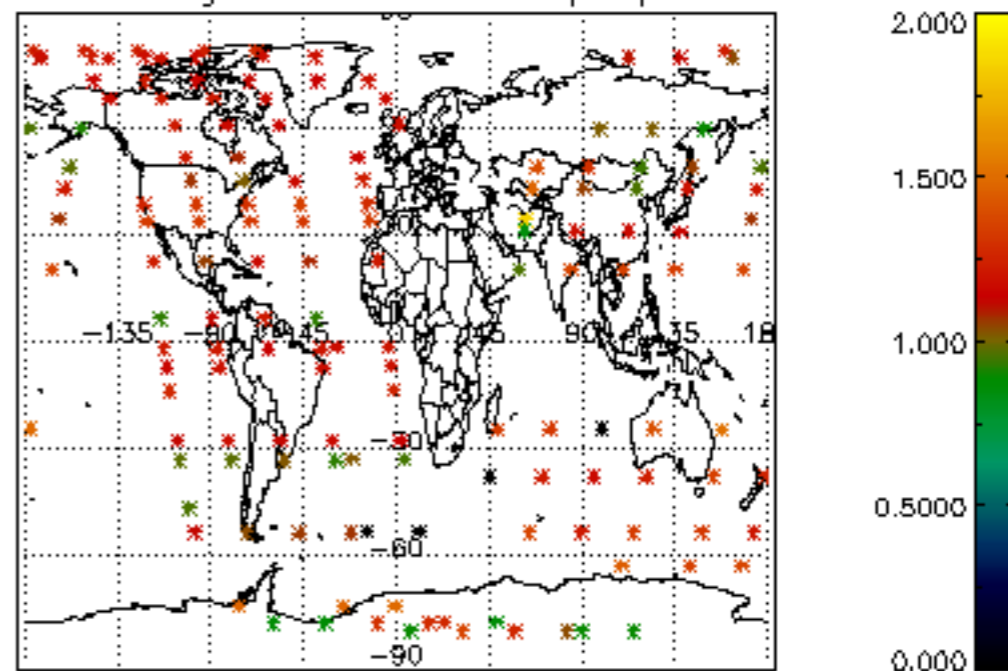




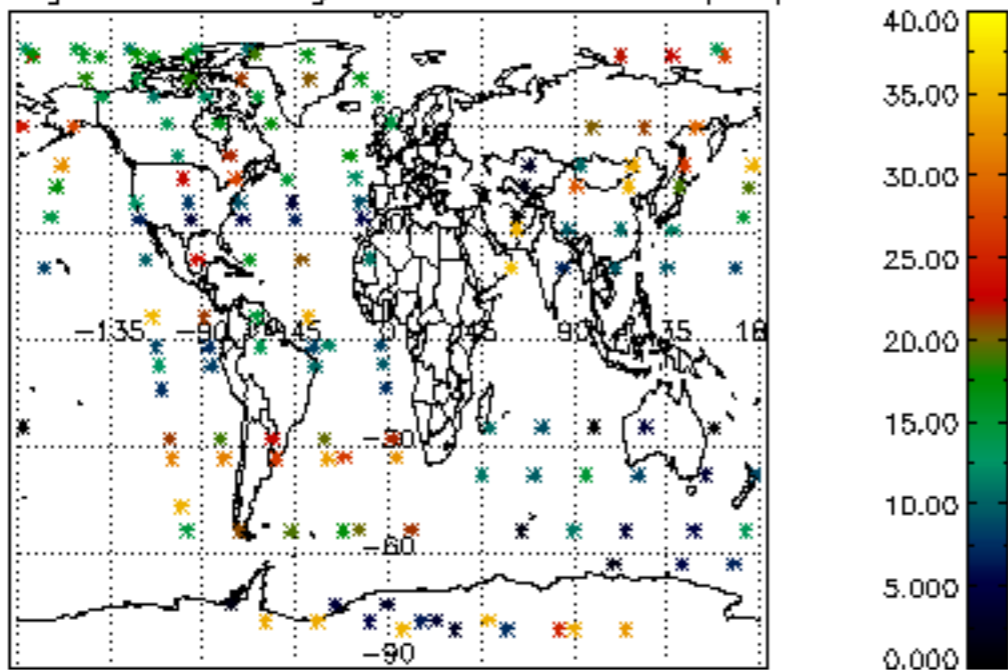
Percentage of cosmic ray hits per profile



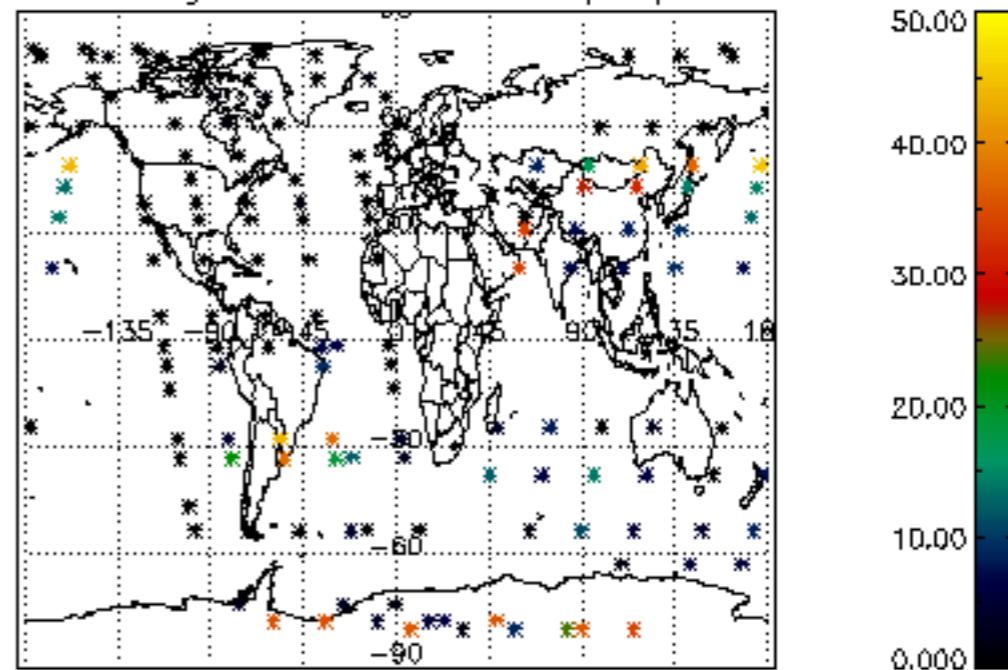
Percentage of datation errors per profile



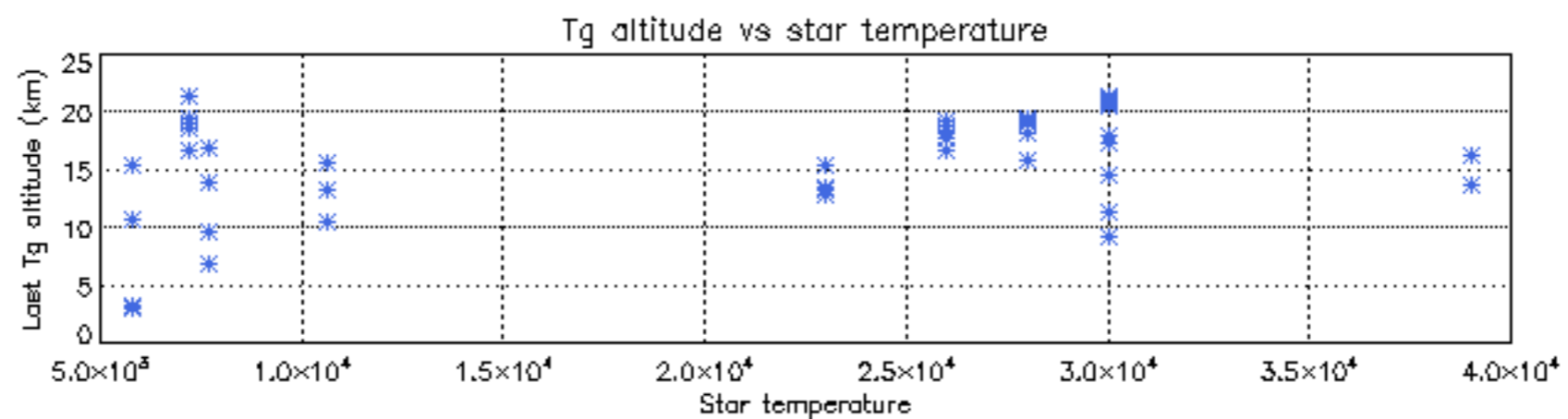
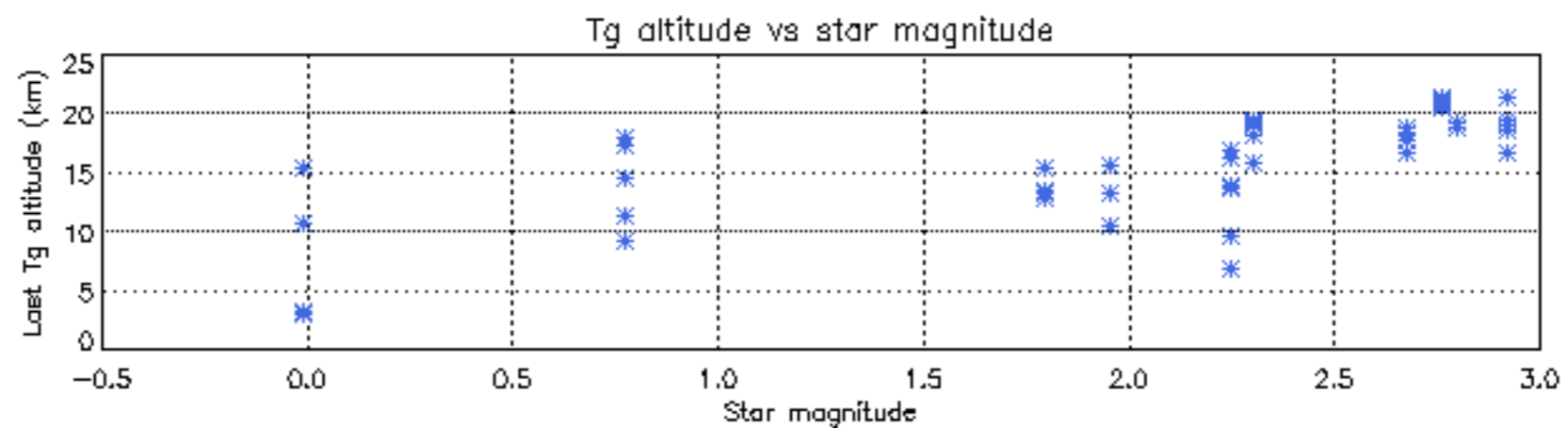
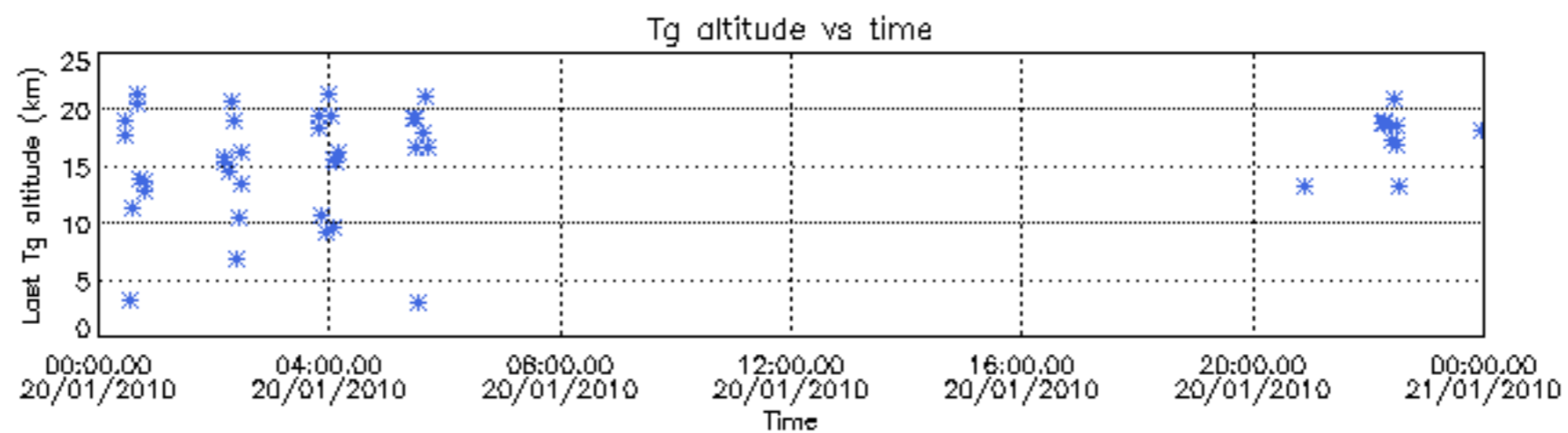
Percentage of star falling outside central band per profile



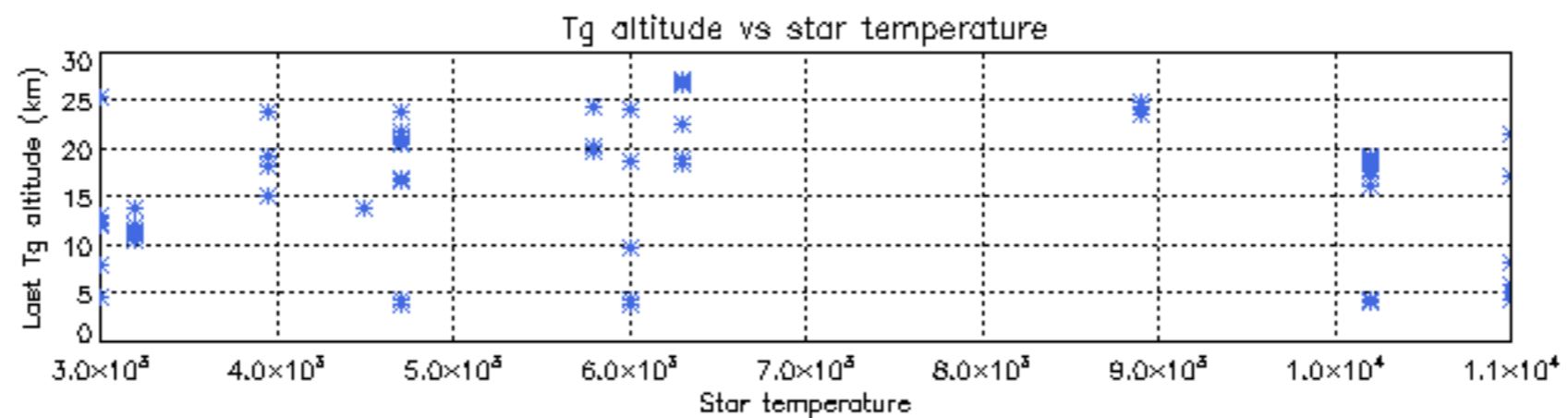
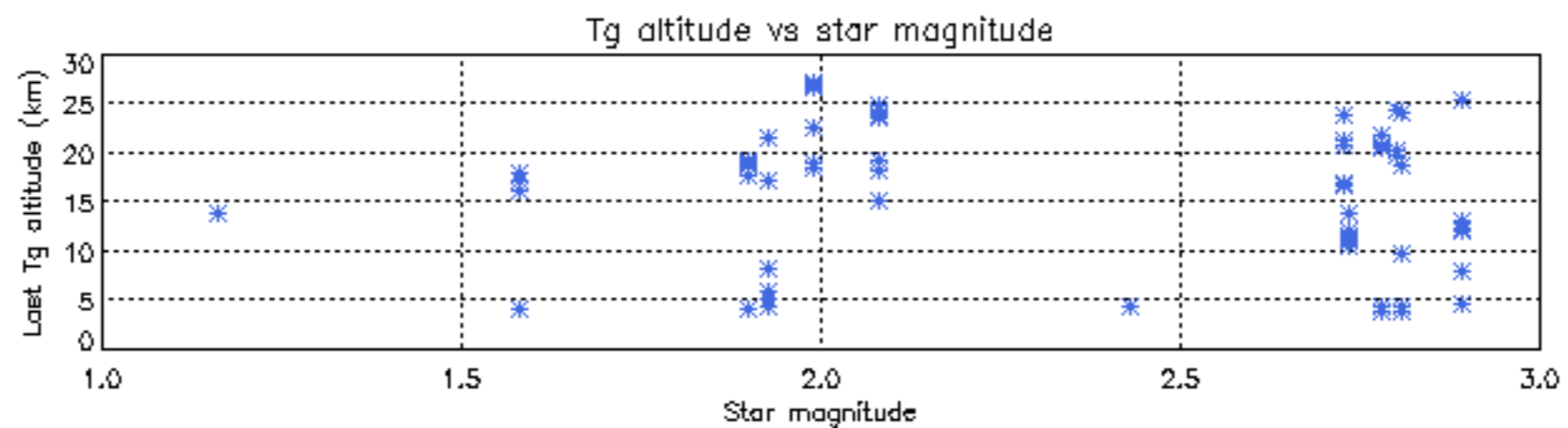
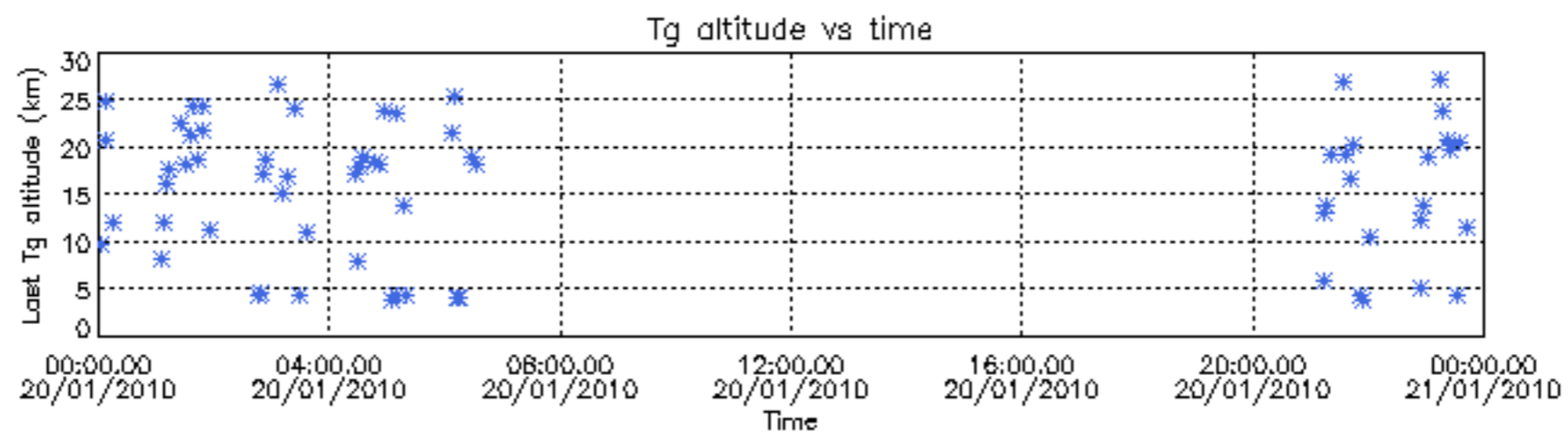
Percentage of saturation errors per profile



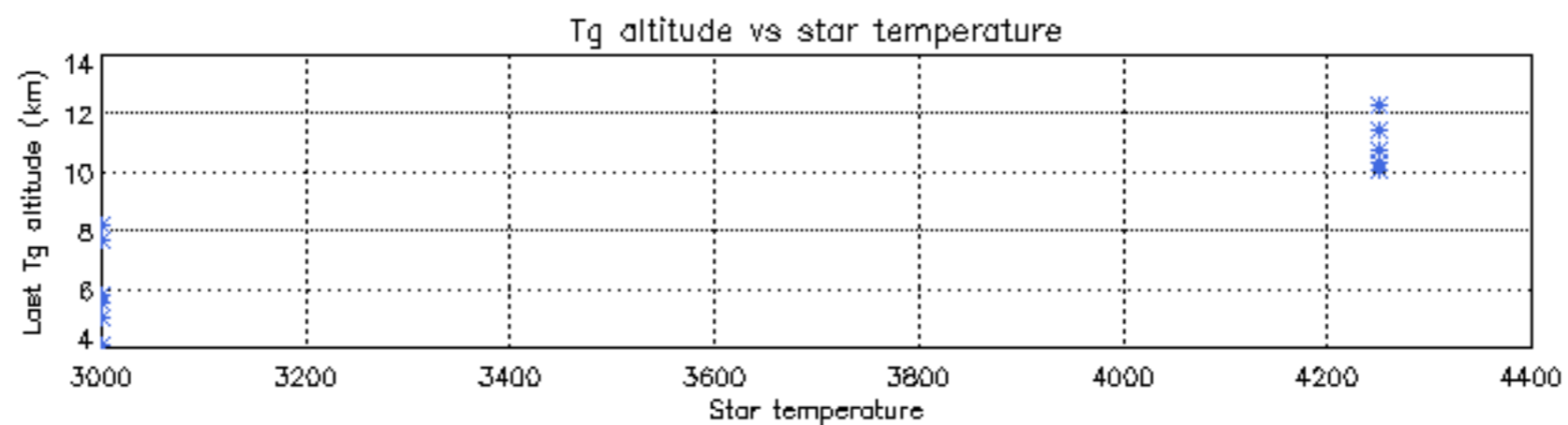
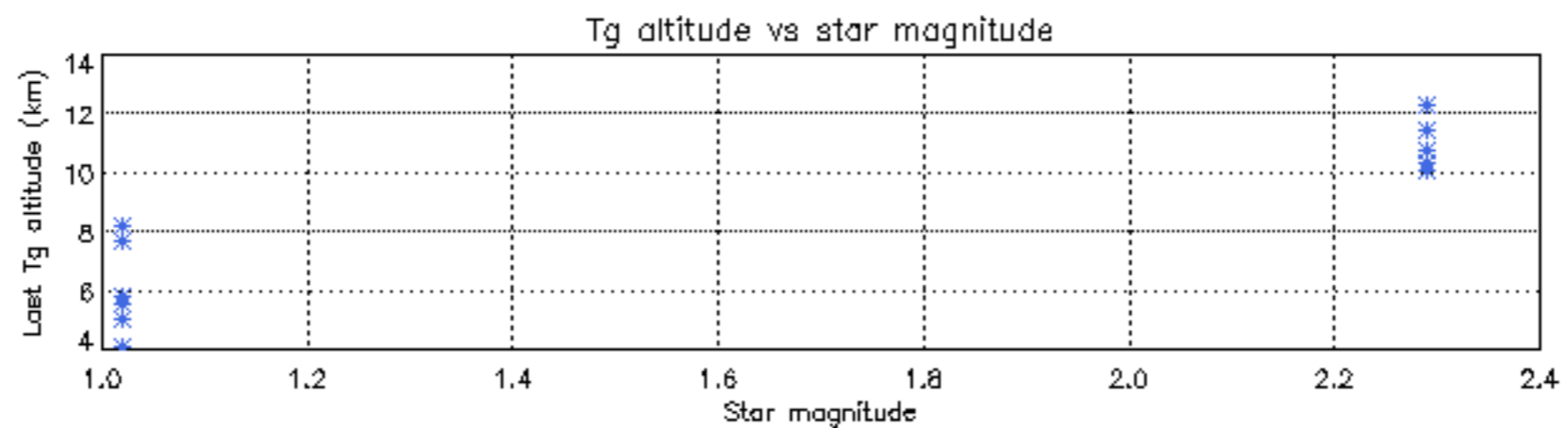
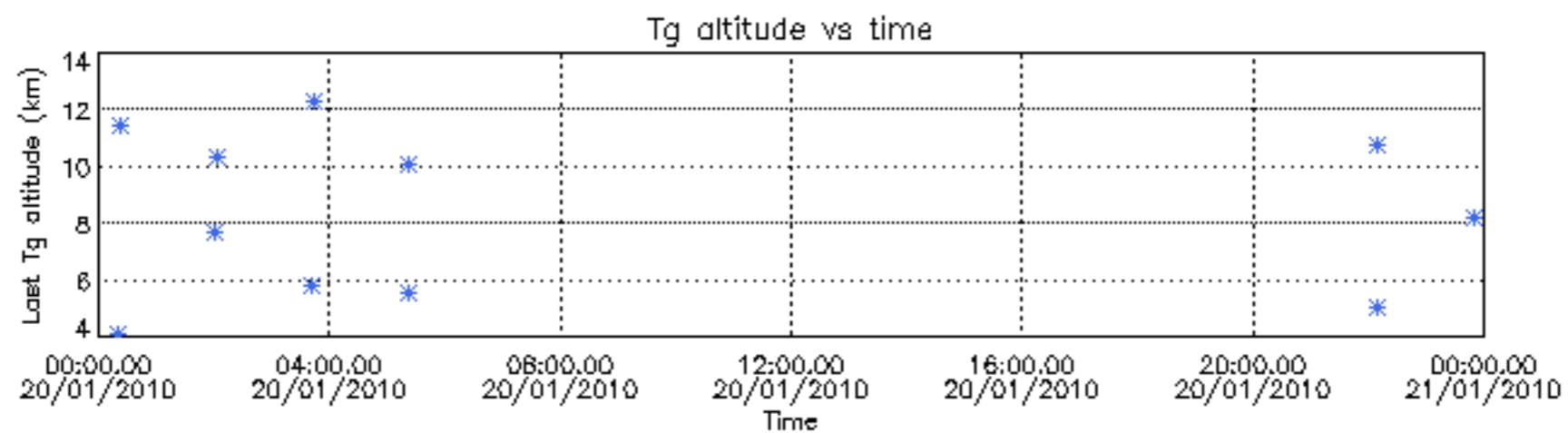
Tangent altitude at which the star is lost

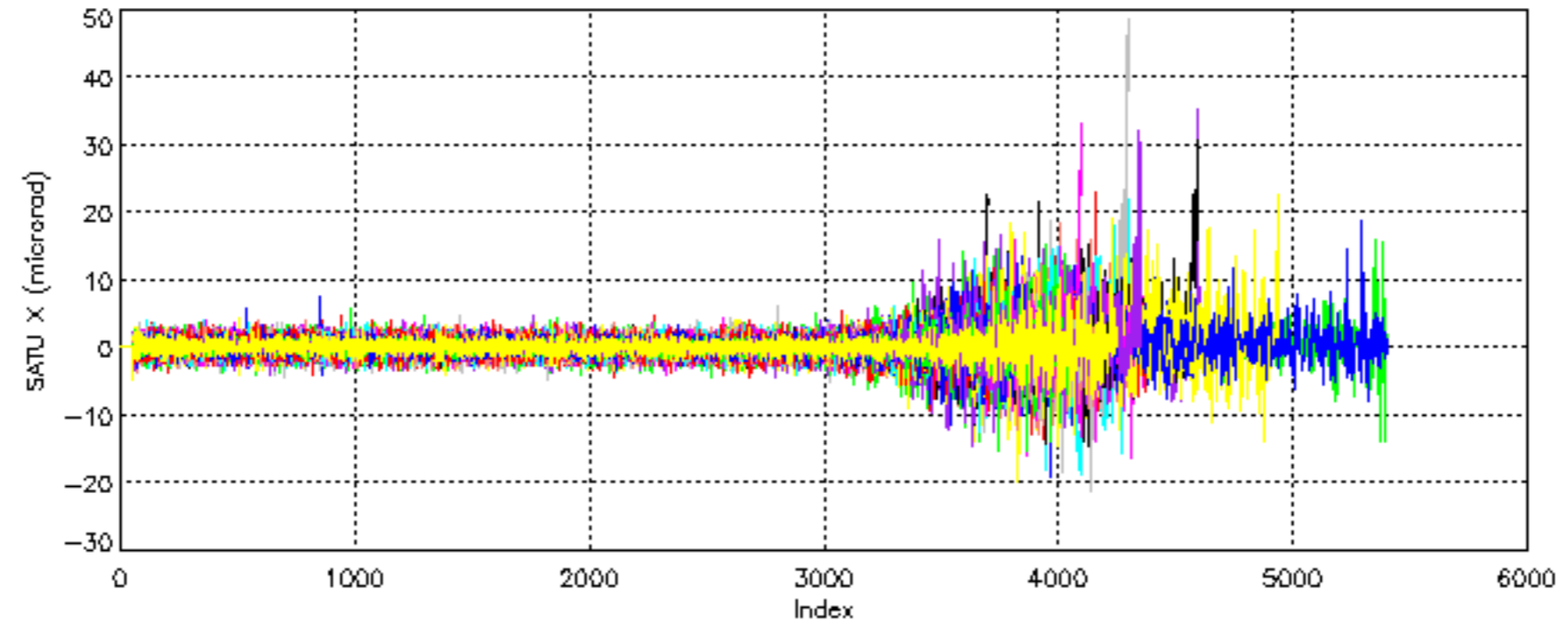


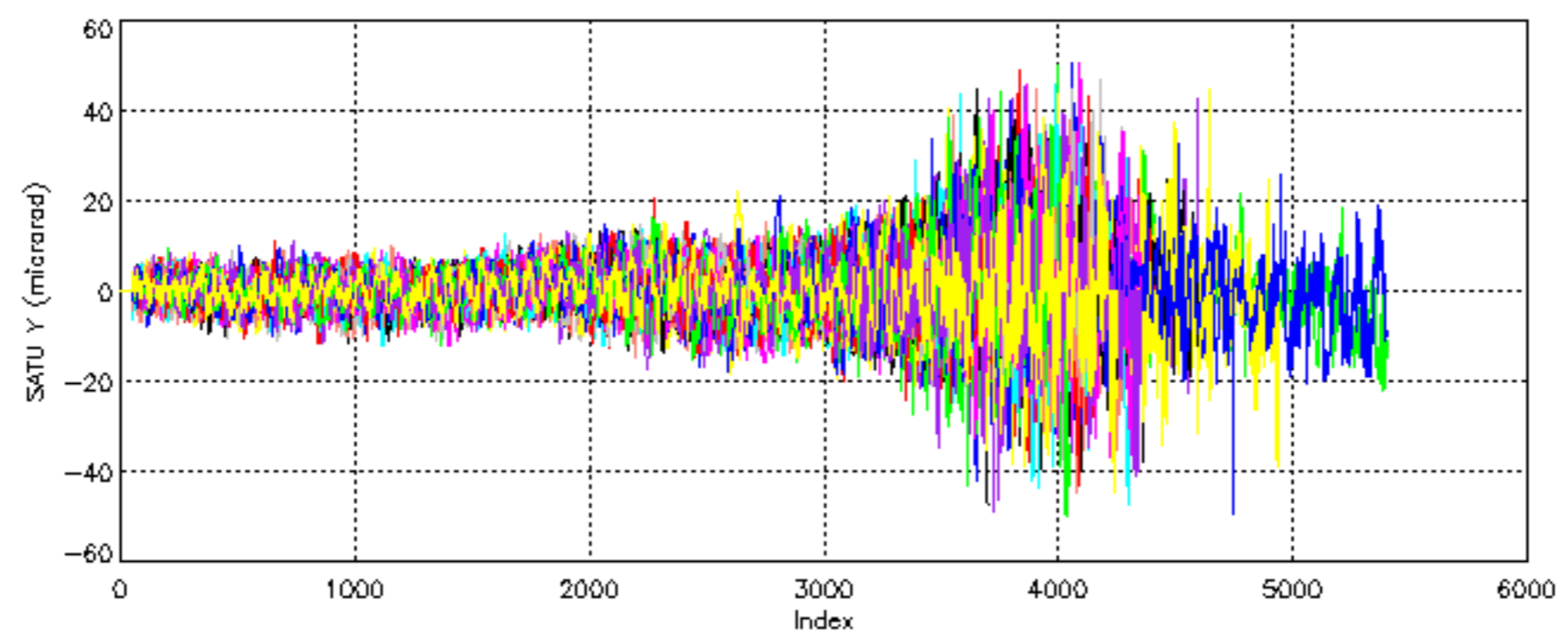
Tangent altitude at which the star is lost

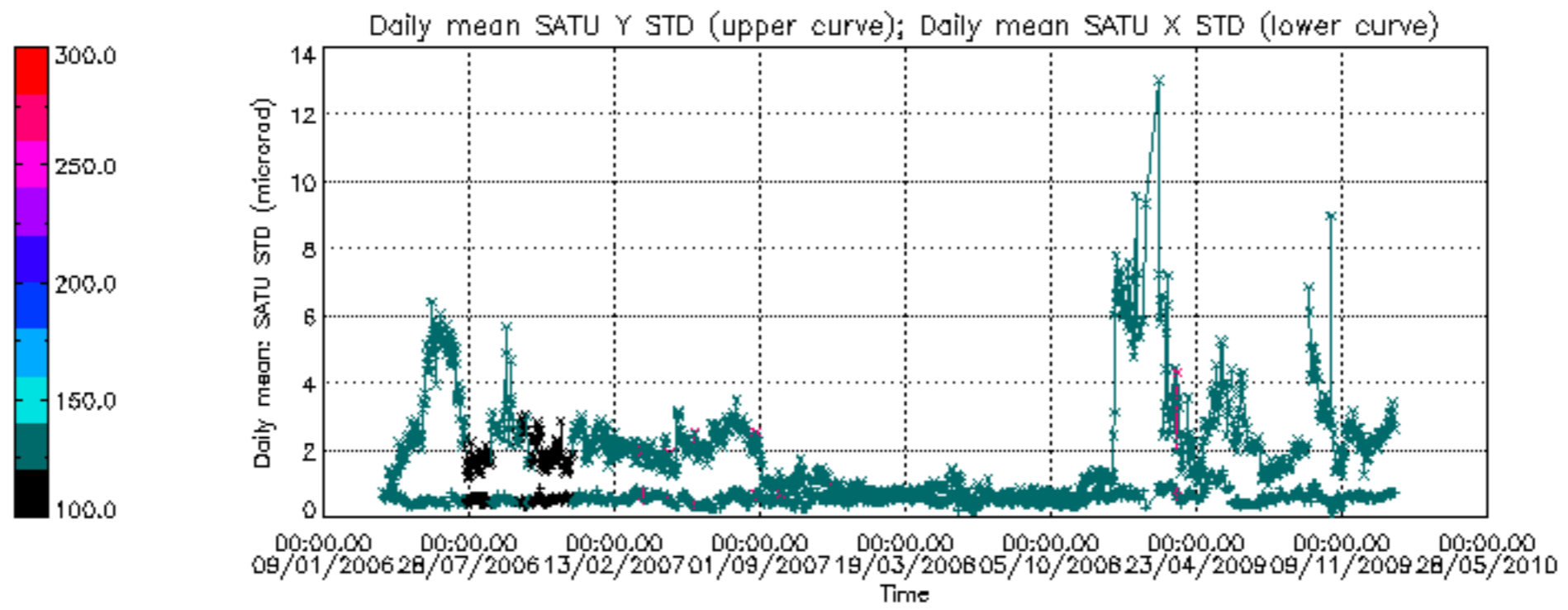


Tangent altitude at which the star is lost









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 7; 476.2; 01-JAN-2010 00:33:55; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40981
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 13; 1340.4; 01-JAN-2010 00:48:19; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;40981
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 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
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 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
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 9; 631.0; 01-JAN-2010 02:17:05; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40982
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 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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 15; 4353.9; 02-JAN-2010 21:14:07; Bright; 42.5; 180; 27Gam Boo ; 3.04; 8000;occ; 85; 0;41007
 16; 4580.4; 02-JAN-2010 21:17:53; Bright; 42.5; 83; ; 2.38; 11000;occ; 85; 0;41007
 17; 4782.6; 02-JAN-2010 21:21:15; Bright; 56.0; 3; 16Alp Boo ; -0.05; 4250;occ; 112; 0;41007
 18; 4898.7; 02-JAN-2010 21:23:12; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;41007
 19; 5207.0; 02-JAN-2010 21:28:20; Bright; 49.5; 104; 27Bet Lib ; 2.61; 13100;occ; 99; 0;41007

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22; 1437.4; 02-JAN-2010 07:00:43; Dark ; 44.0; 179; 240mi2CMA ; 3.03; 24000;occ; 88; 0;40999
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 7; 513.4; 03-JAN-2010 22:59:41; Dark ; 49.0; 113; Mu Vel ; 2.69; 5000;occ; 98; 0;41023
 8; 652.6; 03-JAN-2010 23:02:00; Dark ; 47.5; 71; Iot Car ; 2.25; 7700;occ; 95; 0;41023
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26; 4583.5; 04-JAN-2010 00:07:31; Bright; 64.0; 83; ; 2.38; 11000;occ; 128; 0;41023
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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
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23; 7108.3; 04-JAN-2010 12:33:48; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;41030
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 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
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 27; 2191.6; 13-JAN-2010 06:27:18; Dark ; 46.0; 44; 24Gam Gem ; 1.93; 11000;occ; 92; 0;41156
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23; 2672.5; 13-JAN-2010 23:21:18; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;41166
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26; 3922.7; 13-JAN-2010 23:42:08; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;41166
27; 4450.4; 13-JAN-2010 23:50:56; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;41166
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 5; 2192.9; 28-JAN-2010 18:40:15; Bright; 40.5; 44; 24Gam Gem ; 1.93; 11000;occ; 81; 0;41378
 6; 2337.0; 28-JAN-2010 18:42:39; Bright; 39.5; 170; 27Eps Gem ; 3.00; 9700;occ; 79; 0;41378
 7; 2462.4; 28-JAN-2010 18:44:44; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;41378

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 14; 4784.9; 28-JAN-2010 19:23:27; Bright; 54.0; 59; 55Alp Oph ; 2.08; 8900;occ; 108; 0;41378
 15; 4911.4; 28-JAN-2010 19:25:33; Bright; 35.5; 126; 60Bet Oph ; 2.77; 4250;occ; 71; 0;41378
 16; 5292.1; 28-JAN-2010 19:31:54; Dark ; 44.0; 86; 35Eta Oph ; 2.43; 10200;occ; 88; 0;41378
 17; 5541.9; 28-JAN-2010 19:36:03; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;41378
 18; 5883.8; 28-JAN-2010 19:41:45; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 0;41378
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 6; 446.8; 29-JAN-2010 00:53:32; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;41382
 7; 556.9; 29-JAN-2010 00:55:22; Dark ; 46.5; 99; Del Cen ; 2.58; 26000;occ; 93; 0;41382
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 9; 808.8; 29-JAN-2010 00:59:34; Dark ; 45.0; 71; Iot Car ; 2.25; 7700;occ; 90; 0;41382
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 11; 1068.6; 29-JAN-2010 01:03:54; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;41382
 12; 1194.4; 29-JAN-2010 01:06:00; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;41382
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 16; 2337.5; 29-JAN-2010 01:25:03; Bright; 38.0; 170; 27Eps Gem ; 3.00; 9700;occ; 76; 0;41382
 17; 2461.7; 29-JAN-2010 01:27:07; Bright; 40.0; 24; 66Alp Gem ; 1.58; 10200;occ; 80; 0;41382
 18; 3427.1; 29-JAN-2010 01:43:12; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;41382
 19; 3623.9; 29-JAN-2010 01:46:29; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41382
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 21; 4086.8; 29-JAN-2010 01:54:12; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;41382
 22; 4298.6; 29-JAN-2010 01:57:44; Bright; 40.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 81; 0;41382
 23; 4481.2; 29-JAN-2010 02:00:46; Bright; 44.0; 133; 40Zet Her ; 2.81; 6000;occ; 88; 0;41382
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 8; 694.4; 29-JAN-2010 02:38:15; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41383
 9; 809.6; 29-JAN-2010 02:40:11; Dark ; 48.5; 71; Iot Car ; 2.25; 7700;occ; 97; 0;41383
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 3; -1948.9; 29-JAN-2010 03:34:48; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;41383
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 5; -1554.8; 29-JAN-2010 03:41:22; Bright; 42.0; 133; 40Zet Her ; 2.81; 6000;occ; 84; 0;41383
 6; -1250.1; 29-JAN-2010 03:46:27; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;41383
 7; -1122.9; 29-JAN-2010 03:48:34; Bright; 40.5; 126; 60Bet Oph ; 2.77; 4250;occ; 81; 0;41383
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17; 810.1; 29-JAN-2010 04:20:47; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;41384
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4; 4.7; 31-JAN-2010 01:23:32; Dark ; 44.5; 109; Bet Lup ; 2.68; 26000;occ; 89; 0;41411
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 3; 2338.0; 29-JAN-2010 13:09:15; Bright; 38.0; 170; 27Eps Gem ; 3.00; 9700;occ; 76; 0;41389
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 5; 3427.7; 29-JAN-2010 13:27:24; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;41389
 6; 3622.0; 29-JAN-2010 13:30:39; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41389
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 21; 6732.9; 29-JAN-2010 14:22:29; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;41389
 22; 6847.7; 29-JAN-2010 14:24:24; Dark ; 47.5; 71; Iot Car ; 2.25; 7700;occ; 95; 0;41389
 23; 6953.8; 29-JAN-2010 14:26:10; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;41389
 24; 7106.9; 29-JAN-2010 14:28:44; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;41389
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 4; 2338.3; 29-JAN-2010 14:49:51; Bright; 37.0; 170; 27Eps Gem ; 3.00; 9700;occ; 74; 0;41390
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22; 6733.7; 29-JAN-2010 17:43:42; Dark ; 39.5; 159; Ups Car ; 2.92; 7200;occ; 79; 0;41391
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22; 6489.4; 29-JAN-2010 21:00:50; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;41393
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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
5; 2458.4; 30-JAN-2010 17:41:26; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;41406
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
9; 4087.2; 30-JAN-2010 18:08:35; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;41406
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