

GOMOS Daily Report 02-OCT-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	05OCT2010 04:46:13
Data source version	GOMOS/5.01
Start time of products	02OCT2010 00:07:03
Stop time of products	02OCT2010 23:58:19
Store outputs in DB	Yes
Nb of level 1b prods	76
Nb of prods with errors	0

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

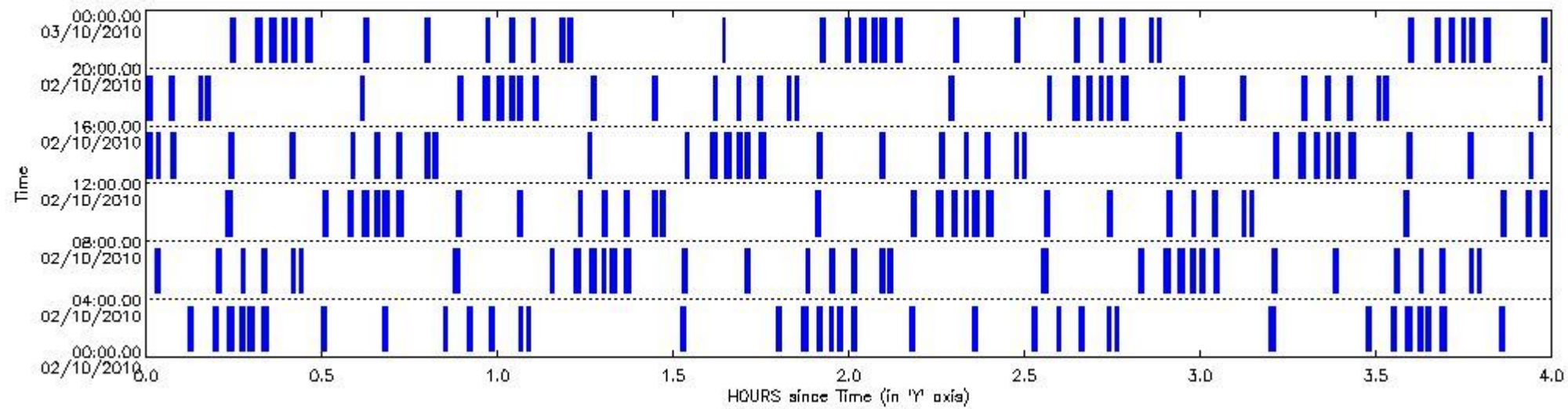
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

No missing products.

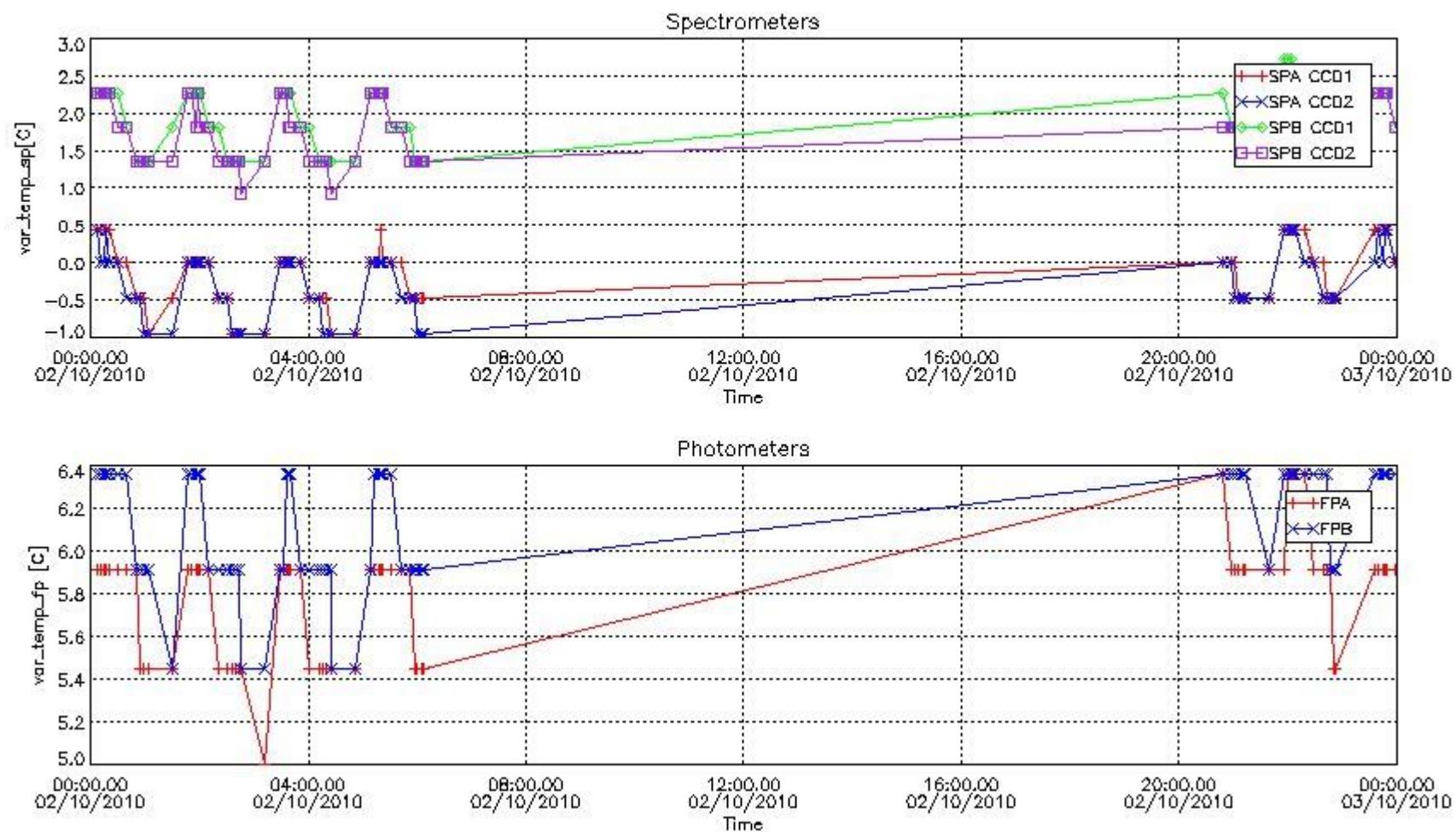
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101002_000703_000000472093_00259_44902_8190.N1	02-OCT-2010 00:07:03	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	44902	No
2	GOM_TRA_1PNPDE20101002_001117_000000572093_00259_44902_8191.N1	02-OCT-2010 00:11:17	Dark	56.500	37	25Del CMa	1.8300	5900.0	113	44902	No
3	GOM_TRA_1PNPDE20101002_001558_000000432093_00260_44903_8192.N1	02-OCT-2010 00:15:58	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	44903	No
4	GOM_TRA_1PNPDE20101002_001722_000000542093_00260_44903_8193.N1	02-OCT-2010 00:17:22	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	44903	No
5	GOM_TRA_1PNPDE20101002_001945_000000582093_00260_44903_8194.N1	02-OCT-2010 00:19:45	Dark	58.000	108	Alp Col	2.6520	15200.	116	44903	No
6	GOM_TRA_1PNPDE20101002_002947_000000502093_00260_44903_8195.N1	02-OCT-2010 00:29:47	Straylight	50.000	157	The1Eri	2.9060	9300.0	100	44903	No
7	GOM_TRA_1PNPDE20101002_004022_000000472093_00260_44903_8196.N1	02-OCT-2010 00:40:22	Straylight	46.500	52	16Bet Cet	2.0370	4500.0	93	44903	No
8	GOM_TRA_1PNPDE20101002_005046_000000402093_00260_44903_8197.N1	02-OCT-2010 00:50:46	Bright	40.000	140	88Gam Peg	2.8340	26000.	80	44903	No
9	GOM_TRA_1PNPDE20101002_005456_000000402093_00260_44903_8198.N1	02-OCT-2010 00:54:56	Bright	40.000	58	21Alp And	2.0730	11000.	80	44903	No
10	GOM_TRA_1PNPDE20101002_005836_000000452093_00260_44903_8199.N1	02-OCT-2010 00:58:36	Bright	44.500	53	43Bet And	2.0480	3300.0	89	44903	No
11	GOM_TRA_1PNPDE20101002_010332_000000372093_00260_44903_8200.N1	02-OCT-2010 01:03:32	Bright	37.000	74	11Bet Cas	2.2680	6600.0	74	44903	No
12	GOM_TRA_1PNPDE20101002_010451_000000422093_00260_44903_8201.N1	02-OCT-2010 01:04:51	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	44903	No

13	GOM_TRA_1PNPDE20101002_013108_000000612093_00260_44903_8202.N1	02-OCT-2010 01:31:08	Bright	61.000	17	78Bet Gem	1.1610	4500.0	122	44903	No
14	GOM_TRA_1PNPDE20101002_014740_000000472093_00260_44903_8241.N1	02-OCT-2010 01:47:40	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	44903	No
15	GOM_TRA_1PNPDE20101002_015154_000000552093_00260_44903_8242.N1	02-OCT-2010 01:51:54	Dark	55.000	37	25Del CMa	1.8300	5900.0	110	44903	No
16	GOM_TRA_1PNPDE20101002_015635_000000462093_00261_44904_8243.N1	02-OCT-2010 01:56:35	Dark	45.500	161	Tau Pup	2.9310	4500.0	91	44904	No
17	GOM_TRA_1PNPDE20101002_015759_000000572093_00261_44904_8244.N1	02-OCT-2010 01:57:59	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	44904	No
18	GOM_TRA_1PNPDE20101002_020023_000000602093_00261_44904_8245.N1	02-OCT-2010 02:00:23	Dark	59.500	108	Alp Col	2.6520	15200.	119	44904	No
19	GOM_TRA_1PNPDE20101002_021023_000000522093_00261_44904_8246.N1	02-OCT-2010 02:10:23	Straylight	51.500	157	The1Eri	2.9060	9300.0	103	44904	No
20	GOM_TRA_1PNPDE20101002_022058_000000502093_00261_44904_8247.N1	02-OCT-2010 02:20:58	Straylight	50.000	52	16Bet Cet	2.0370	4500.0	100	44904	No
21	GOM_TRA_1PNPDE20101002_023122_000000412093_00261_44904_8248.N1	02-OCT-2010 02:31:22	Bright	40.500	140	88Gam Peg	2.8340	26000.	81	44904	No
22	GOM_TRA_1PNPDE20101002_023531_000000412093_00261_44904_8249.N1	02-OCT-2010 02:35:31	Bright	41.000	58	21Alp And	2.0730	11000.	82	44904	No
23	GOM_TRA_1PNPDE20101002_023912_000000502093_00261_44904_8250.N1	02-OCT-2010 02:39:12	Bright	49.500	53	43Bet And	2.0480	3300.0	99	44904	No
24	GOM_TRA_1PNPDE20101002_024407_000000382093_00261_44904_8251.N1	02-OCT-2010 02:44:07	Bright	37.500	74	11Bet Cas	2.2680	6600.0	75	44904	No
25	GOM_TRA_1PNPDE20101002_024527_000000402093_00261_44904_8252.N1	02-OCT-2010 02:45:27	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	44904	No
26	GOM_TRA_1PNPDE20101002_031144_000000612093_00261_44904_8262.N1	02-OCT-2010 03:11:44	Bright	60.500	17	78Bet Gem	1.1610	4500.0	121	44904	No
27	GOM_TRA_1PNPDE20101002_032816_000000472093_00261_44904_8263.N1	02-OCT-2010 03:28:16	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	44904	No
28	GOM_TRA_1PNPDE20101002_033231_000000542093_00261_44904_8264.N1	02-OCT-2010 03:32:31	Dark	54.000	37	25Del CMa	1.8300	5900.0	108	44904	No
29	GOM_TRA_1PNPDE20101002_033712_000000432093_00262_44905_8265.N1	02-OCT-2010 03:37:12	Dark	42.500	161	Tau Pup	2.9310	4500.0	85	44905	No
30	GOM_TRA_1PNPDE20101002_033836_000000452093_00262_44905_8266.N1	02-OCT-2010 03:38:36	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	44905	No
31	GOM_TRA_1PNPDE20101002_034100_000000582093_00262_44905_8267.N1	02-OCT-2010 03:41:00	Dark	58.000	108	Alp Col	2.6520	15200.	116	44905	No
32	GOM_TRA_1PNPDE20101002_035100_000000482093_00262_44905_8268.N1	02-OCT-2010 03:51:00	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	44905	No
33	GOM_TRA_1PNPDE20101002_040135_000000512093_00262_44905_8269.N1	02-OCT-2010 04:01:35	Straylight	50.500	52	16Bet Cet	2.0370	4500.0	101	44905	No
34	GOM_TRA_1PNPDE20101002_041158_000000412093_00262_44905_8270.N1	02-OCT-2010 04:11:58	Bright	40.500	140	88Gam Peg	2.8340	26000.	81	44905	No
35	GOM_TRA_1PNPDE20101002_041607_000000412093_00262_44905_8271.N1	02-OCT-2010 04:16:07	Bright	40.500	58	21Alp And	2.0730	11000.	81	44905	No
36	GOM_TRA_1PNPDE20101002_041947_000000502093_00262_44905_8272.N1	02-OCT-2010 04:19:47	Bright	49.500	53	43Bet And	2.0480	3300.0	99	44905	No
37	GOM_TRA_1PNPDE20101002_042443_000000392093_00262_44905_8273.N1	02-OCT-2010 04:24:43	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44905	No
38	GOM_TRA_1PNPDE20101002_042602_000000412093_00262_44905_8274.N1	02-OCT-2010 04:26:02	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	44905	No
39	GOM_TRA_1PNPDE20101002_045220_000000602093_00262_44905_8238.N1	02-OCT-2010 04:52:20	Bright	60.000	17	78Bet Gem	1.1610	4500.0	120	44905	No
40	GOM_TRA_1PNPDE20101002_050853_000000472093_00262_44905_8239.N1	02-OCT-2010 05:08:53	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	44905	No
41	GOM_TRA_1PNPDE20101002_051308_000000652093_00262_44905_8240.N1	02-OCT-2010 05:13:08	Dark	65.000	37	25Del CMa	1.8300	5900.0	130	44905	No
42	GOM_TRA_1PNPDE20101002_051748_000000422093_00263_44906_8241.N1	02-OCT-2010 05:17:48	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	44906	No
43	GOM_TRA_1PNPDE20101002_051912_000000562093_00263_44906_8242.N1	02-OCT-2010 05:19:12	Dark	55.500	2	Alp Car	-0.73600	7000.0	111	44906	No
44	GOM_TRA_1PNPDE20101002_052138_000000592093_00263_44906_8243.N1	02-OCT-2010 05:21:38	Dark	58.500	108	Alp Col	2.6520	15200.	117	44906	No
45	GOM_TRA_1PNPDE20101002_053137_000000502093_00263_44906_8244.N1	02-OCT-2010 05:31:37	Straylight	50.000	157	The1Eri	2.9060	9300.0	100	44906	No
46	GOM_TRA_1PNPDE20101002_054211_000000512093_00263_44906_8245.N1	02-OCT-2010 05:42:11	Straylight	50.500	52	16Bet Cet	2.0370	4500.0	101	44906	No
47	GOM_TRA_1PNPDE20101002_055234_000000402093_00263_44906_8246.N1	02-OCT-2010 05:52:34	Bright	40.000	140	88Gam Peg	2.8340	26000.	80	44906	No
48	GOM_TRA_1PNPDE20101002_055642_000000412093_00263_44906_8247.N1	02-OCT-2010 05:56:42	Bright	40.500	58	21Alp And	2.0730	11000.	81	44906	No
49	GOM_TRA_1PNPDE20101002_060022_000000482093_00263_44906_8248.N1	02-OCT-2010 06:00:22	Bright	47.500	53	43Bet And	2.0480	3300.0	95	44906	No
50	GOM_TRA_1PNPDE20101002_060519_000000392093_00263_44906_8249.N1	02-OCT-2010 06:05:19	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	44906	No
51	GOM_TRA_1PNPDE20101002_060638_000000402093_00263_44906_8250.N1	02-OCT-2010 06:06:38	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	44906	No
52	GOM_TRA_1PNPDE20101002_204735_000000532093_00272_44915_8324.N1	02-OCT-2010 20:47:35	Straylight	52.500	52	16Bet Cet	2.0370	4500.0	105	44915	No
53	GOM_TRA_1PNPDE20101002_205756_000000412093_00272_44915_8325.N1	02-OCT-2010 20:57:56	Bright	40.500	140	88Gam Peg	2.8340	26000.	81	44915	No
54	GOM_TRA_1PNPDE20101002_210203_000000412093_00272_44915_8326.N1	02-OCT-2010 21:02:03	Bright	41.000	58	21Alp And	2.0730	11000.	82	44915	No
55	GOM_TRA_1PNPDE20101002_210540_000000442093_00272_44915_8327.N1	02-OCT-2010 21:05:40	Bright	44.000	53	43Bet And	2.0480	3300.0	88	44915	No
56	GOM_TRA_1PNPDE20101002_211040_000000402093_00272_44915_8328.N1	02-OCT-2010 21:10:40	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	44915	No
57	GOM_TRA_1PNPDE20101002_211158_000000412093_00272_44915_8329.N1	02-OCT-2010 21:11:58	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	44915	No
58	GOM_TRA_1PNPDE20101002_213823_000000292093_00272_44915_8330.N1	02-OCT-2010 21:38:23	Twl_and_stray	28.500	17	78Bet Gem	1.1610	4500.0	57	44915	No
59	GOM_TRA_1PNPDE20101002_215501_000000502093_00272_44915_8350.N1	02-OCT-2010 21:55:01	Dark	49.500	132	15Rho Pup	2.8030	6900.0	99	44915	No
60	GOM_TRA_1PNPDE20101002_215921_000000562093_00272_44915_8351.N1	02-OCT-2010 21:59:21	Dark	55.500	37	25Del CMa	1.8300	5900.0	111	44915	No
61	GOM_TRA_1PNPDE20101002_220355_000000422093_00273_44916_8352.N1	02-OCT-2010 22:03:55	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	44916	No
62	GOM_TRA_1PNPDE20101002_220519_000000562093_00273_44916_8353.N1	02-OCT-2010 22:05:19	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	44916	No
63	GOM_TRA_1PNPDE20101002_220752_000000612093_00273_44916_8354.N1	02-OCT-2010 22:07:52	Dark	60.500	108	Alp Col	2.6520	15200.	121	44916	No
64	GOM_TRA_1PNPDE20101002_221743_000000492093_00273_44916_8355.N1	02-OCT-2010 22:17:43	Straylight	49.000	157	The1Eri	2.9060	9300.0	98	44916	No
65	GOM_TRA_1PNPDE20101002_222811_000000482093_00273_44916_8356.N1	02-OCT-2010 22:28:11	Straylight	48.000	52	16Bet Cet	2.0370	4500.0	96	44916	No
66	GOM_TRA_1PNPDE20101002_223831_000000412093_00273_44916_8357.N1	02-OCT-2010 22:38:31	Bright	40.500	140	88Gam Peg	2.8340	26000.	81	44916	No
67	GOM_TRA_1PNPDE20101002_224239_000000402093_00273_44916_8358.N1	02-OCT-2010 22:42:39	Bright	40.000	58	21Alp And	2.0730	11000.	80	44916	No
68	GOM_TRA_1PNPDE20101002_224615_000000512093_00273_44916_8359.N1	02-OCT-2010 22:46:15	Bright	50.500	53	43Bet And	2.0480	3300.0	101	44916	No
69	GOM_TRA_1PNPDE20101002_225116_000000392093_00273_44916_8360.N1	02-OCT-2010 22:51:16	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44916	No
70	GOM_TRA_1PNPDE20101002_225233_000000402093_00273_44916_8361.N1	02-OCT-2010 22:52:33	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	44916	No
71	GOM_TRA_1PNPDE20101002_233538_000000482093_00273_44916_8369.N1	02-OCT-2010 23:35:38	Dark	48.000	132	15Rho Pup	2.8030	6900.0	96	44916	No

72	GOM_TRA_1PNPDE20101002_233958_00000572093_00273_44916_8370.N1	02-OCT-2010 23:39:58	Dark	57.000	37	25Del CMa	1.8300	5900.0	114	44916	No
73	GOM_TRA_1PNPDE20101002_234432_00000422093_00274_44917_8371.N1	02-OCT-2010 23:44:32	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	44917	No
74	GOM_TRA_1PNPDE20101002_234556_00000562093_00274_44917_8372.N1	02-OCT-2010 23:45:56	Dark	55.500	2	Alp Car	-0.73600	7000.0	111	44917	No
75	GOM_TRA_1PNPDE20101002_234830_00000592093_00274_44917_8373.N1	02-OCT-2010 23:48:30	Dark	58.500	108	Alp Col	2.6520	15200.	117	44917	No
76	GOM_TRA_1PNPDE20101002_235819_00000502093_00274_44917_8374.N1	02-OCT-2010 23:58:19	Straylight	50.000	157	The1Eri	2.9060	9300.0	100	44917	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).

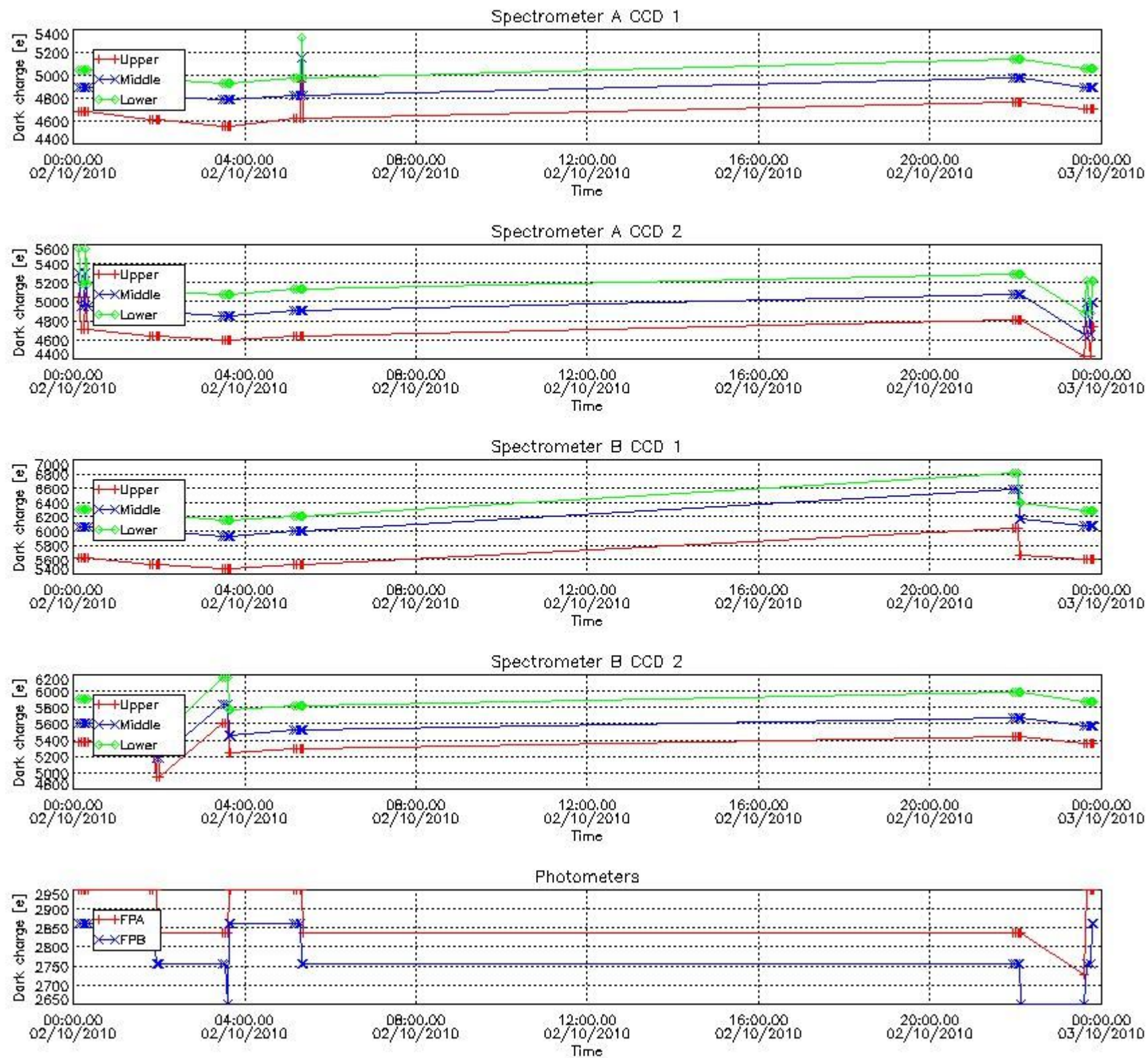
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20101002_204735_00000532093_00272_44915_8324.N1	DC map used
GOM_TRA_1PNPDE20101002_205756_00000412093_00272_44915_8325.N1	DC map used
GOM_TRA_1PNPDE20101002_210203_00000412093_00272_44915_8326.N1	DC map used
GOM_TRA_1PNPDE20101002_210540_00000442093_00272_44915_8327.N1	DC map used
GOM_TRA_1PNPDE20101002_211040_00000402093_00272_44915_8328.N1	DC map used

GOM_TRA_1PNPDE20101002_211158_00000412093_00272_44915_8329.N1	DC map used
GOM_TRA_1PNPDE20101002_213823_00000292093_00272_44915_8330.N1	DC map used

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



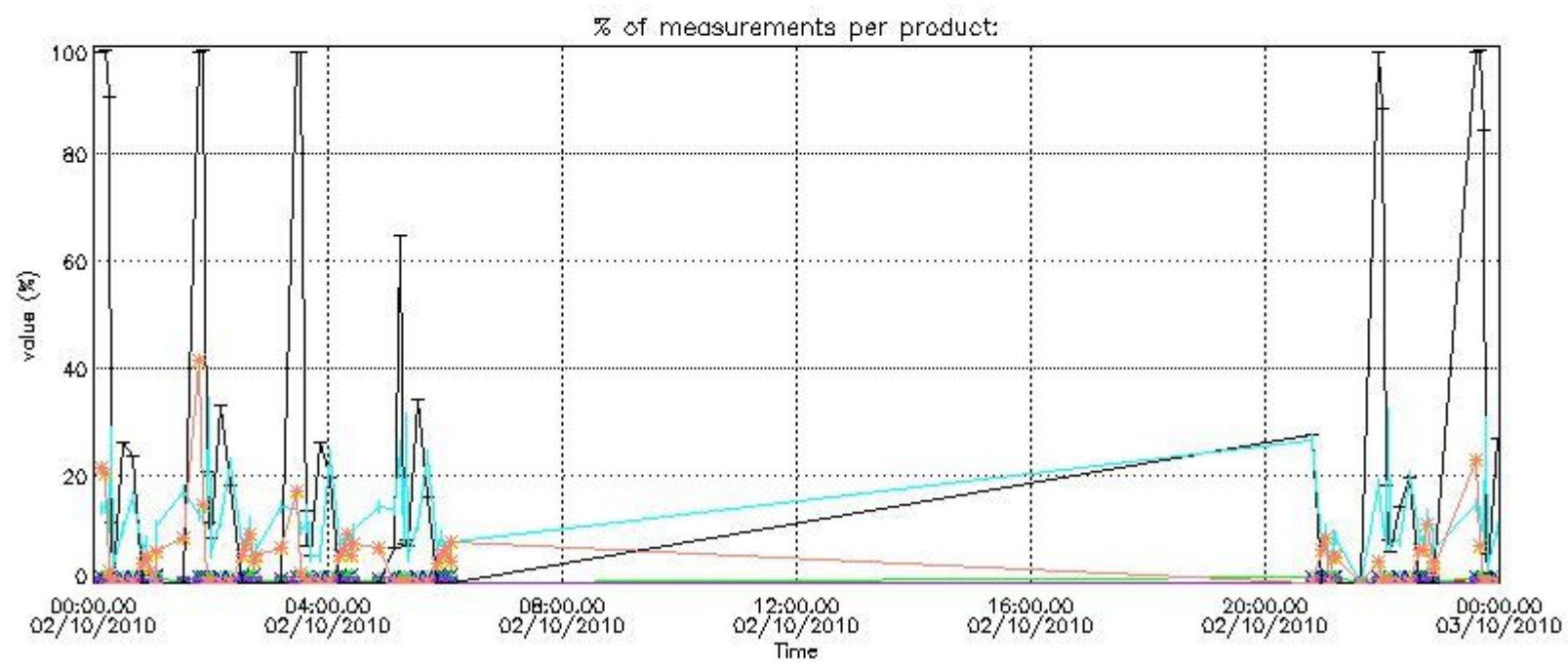
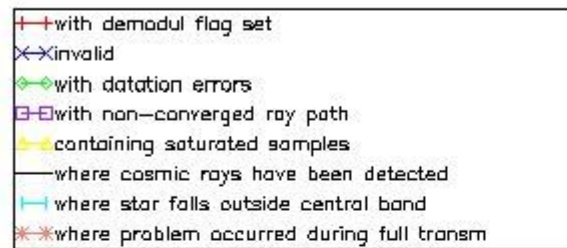
5. Demodulation flag and quality information monitoring

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.

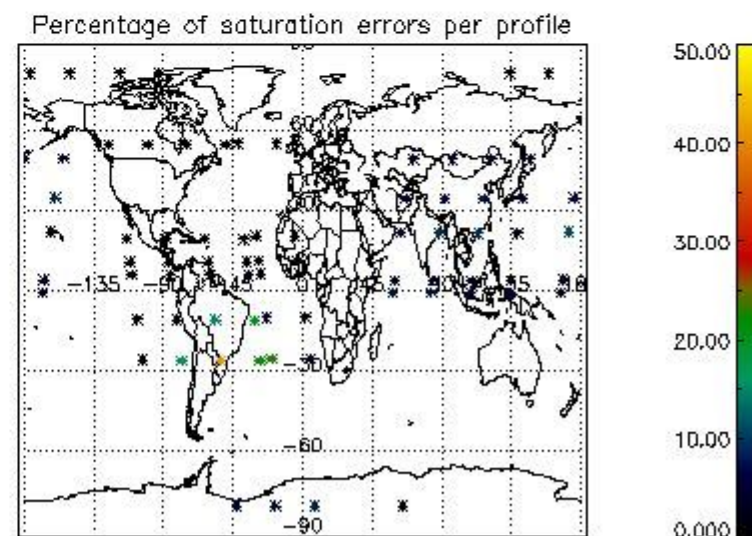
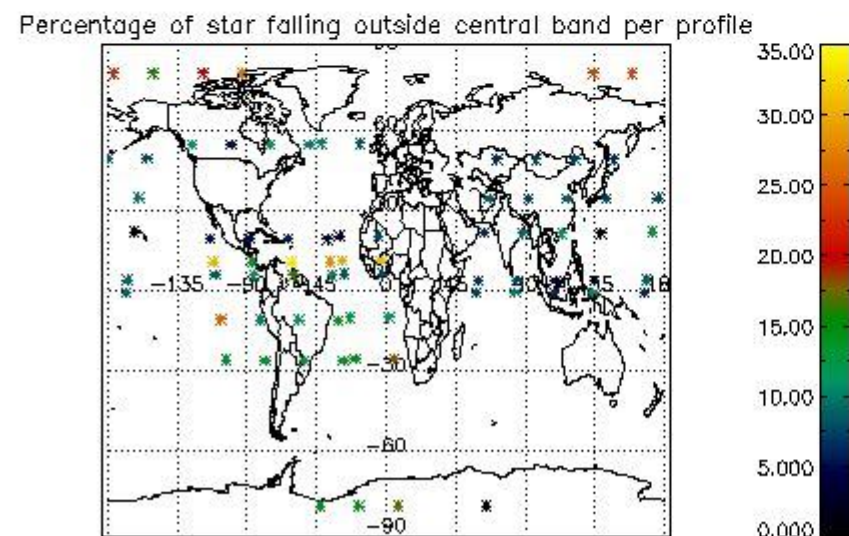
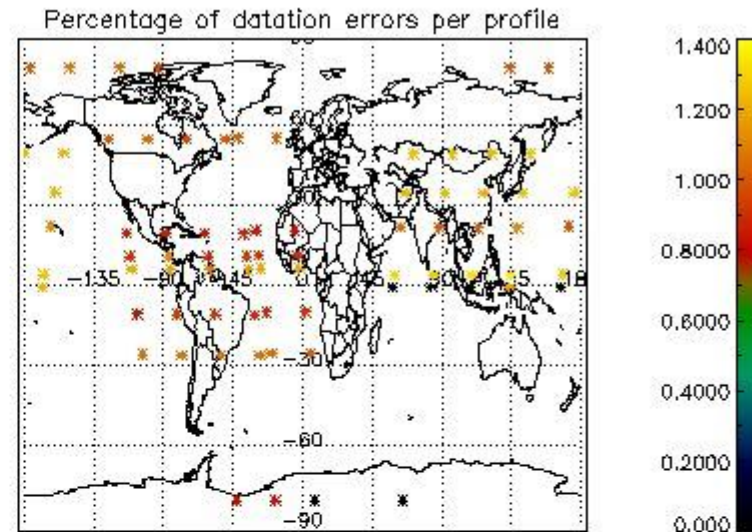
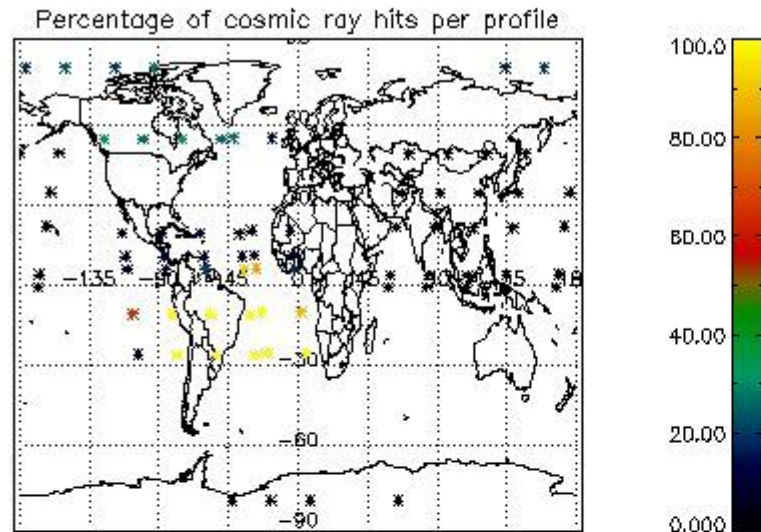
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	44.7368 %
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)



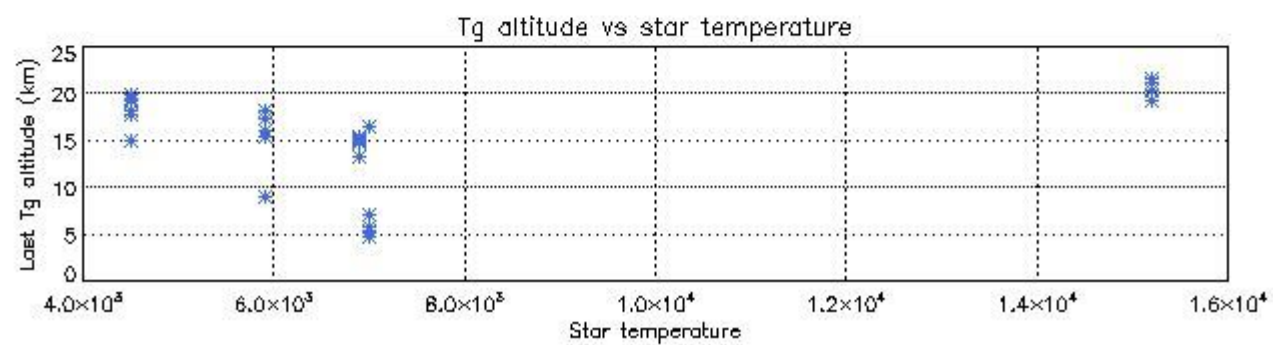
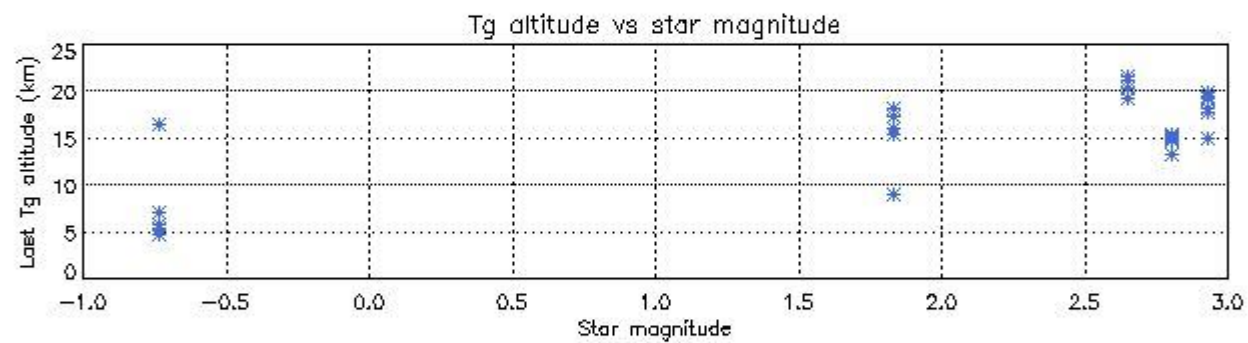
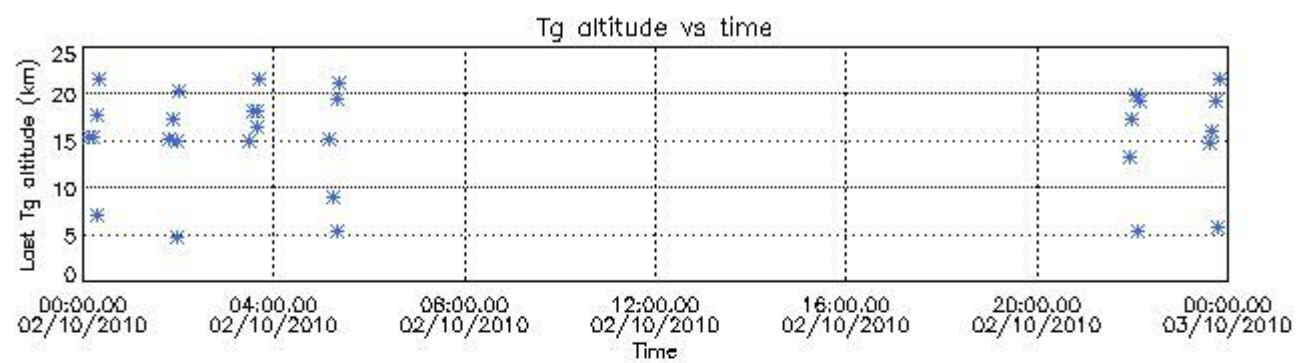
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.366	19.670	NaN
St. deviation:	5.2105	2.6966	NaN
Maximum:	21.629	25.138	NaN
Minimum:	4.7542	13.210	NaN
Number of data:	30.000	33.000	NaN

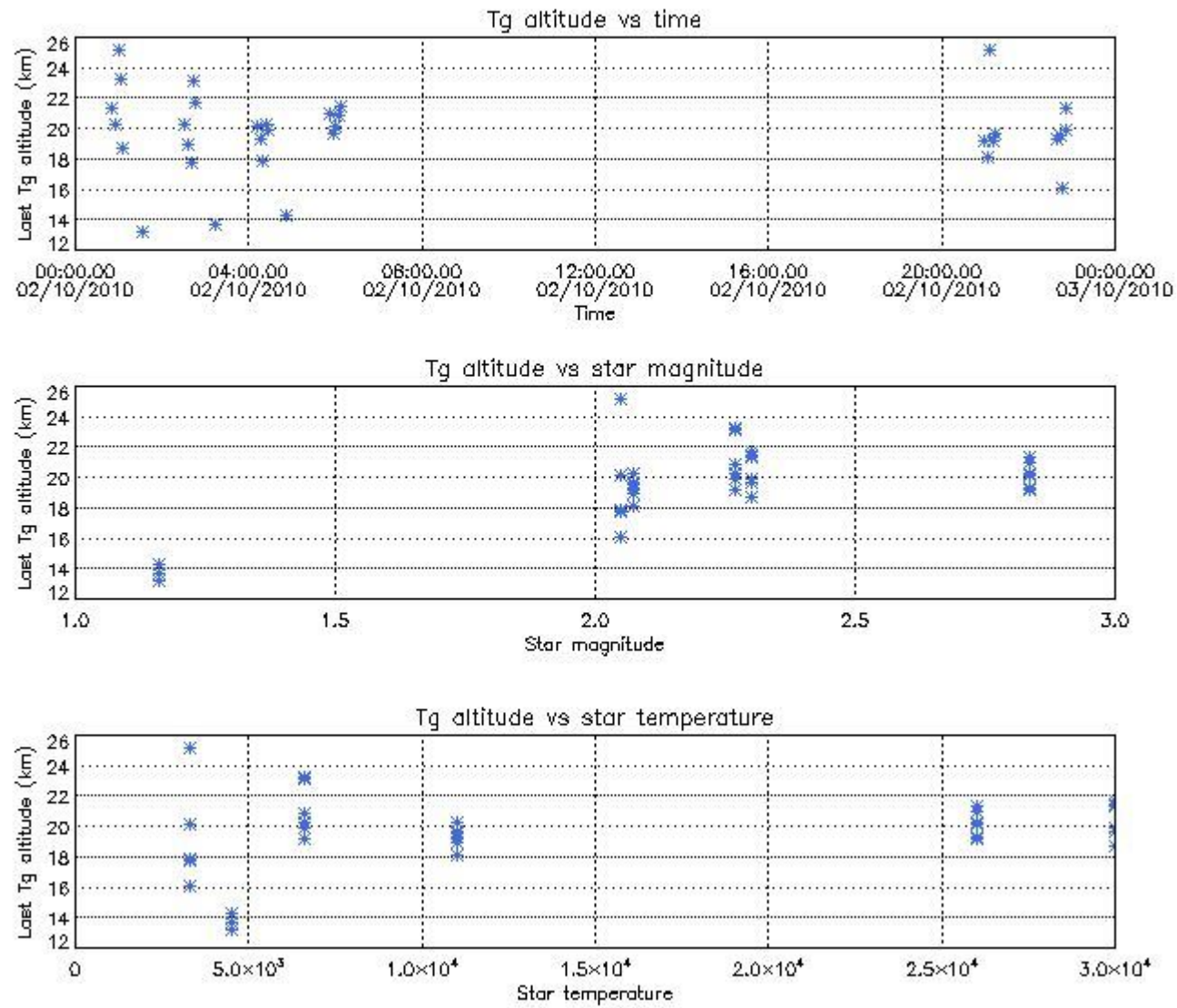
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

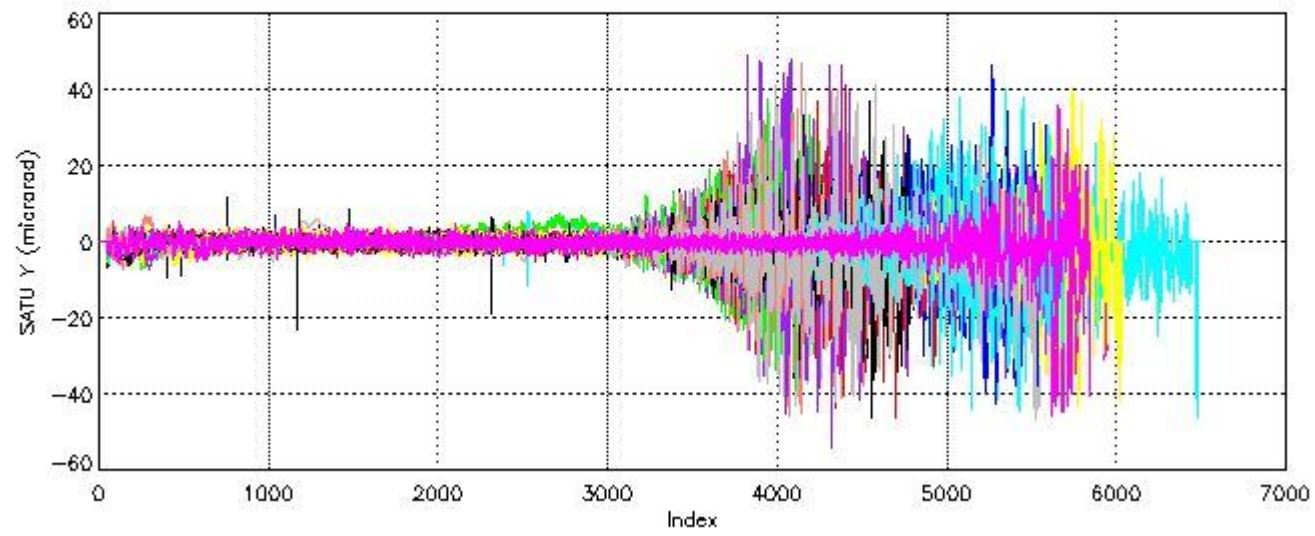
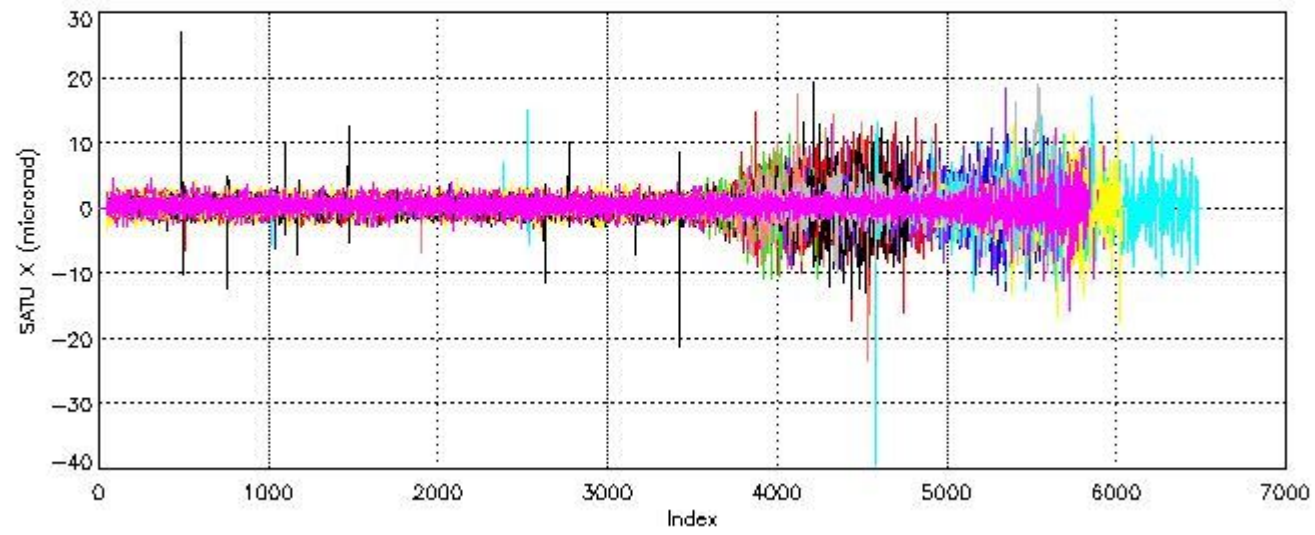


7. Star Acquisition and Tracking Unit (SATU)

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:	0.23177	-0.42093	0.21204	-0.38063
St. deviation:	0.58611	1.1793	0.77549	1.2168
Maximum:	27.000	11.700	5.7000	6.7000
Minimum:	-12.300	-9.5000	-5.6000	-8.8000

Number of data:	33650.	33650.	33700.	33700.
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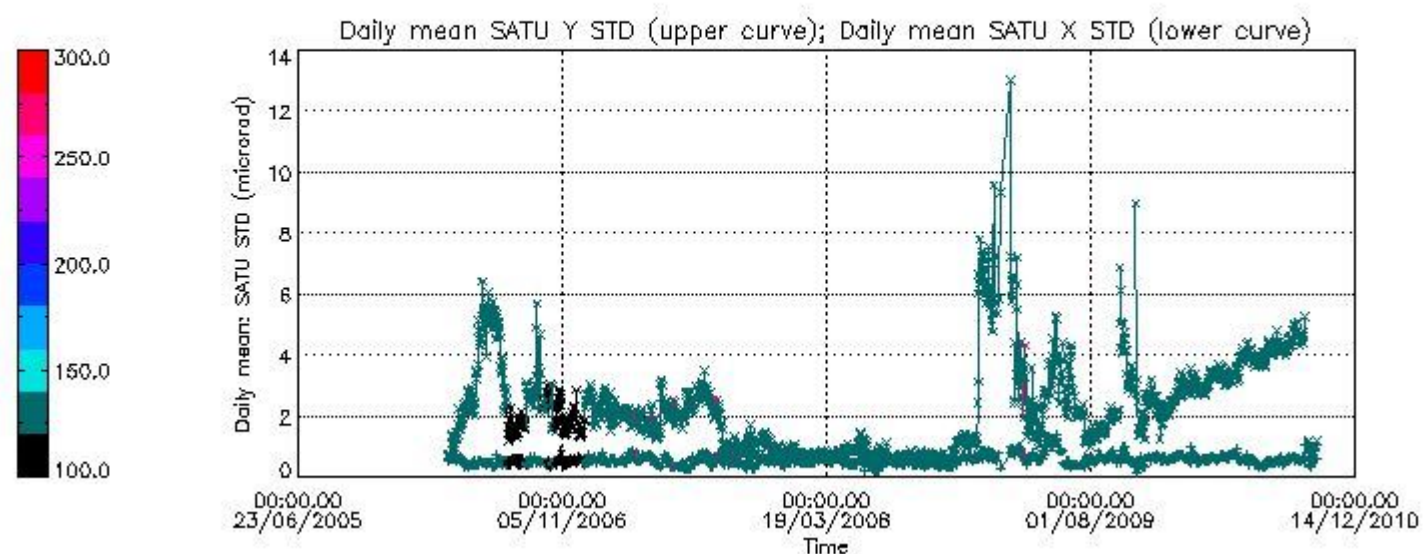
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

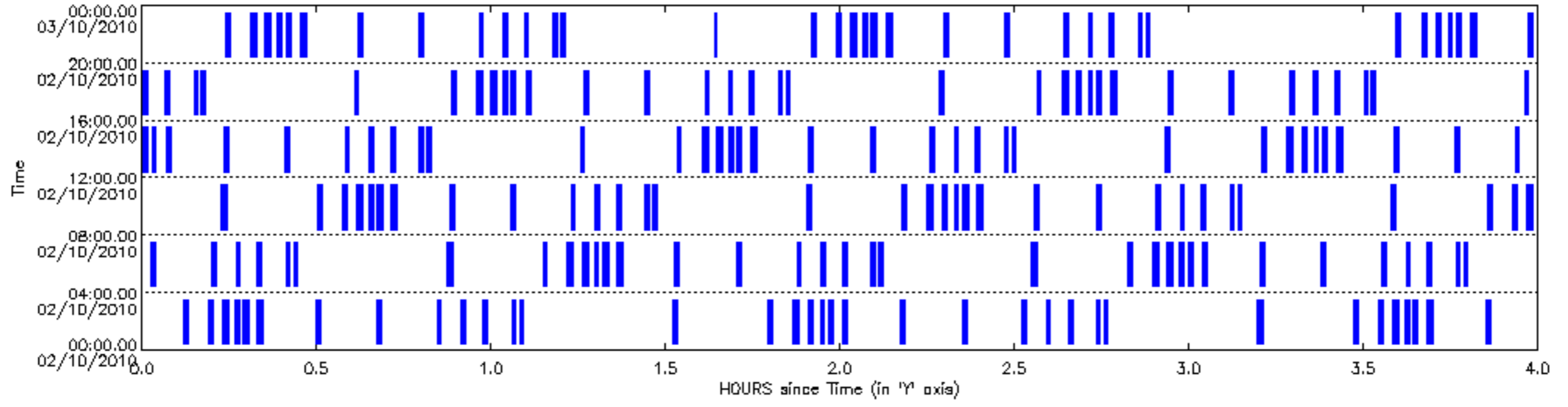
Lower curve: STD of SATU X axis

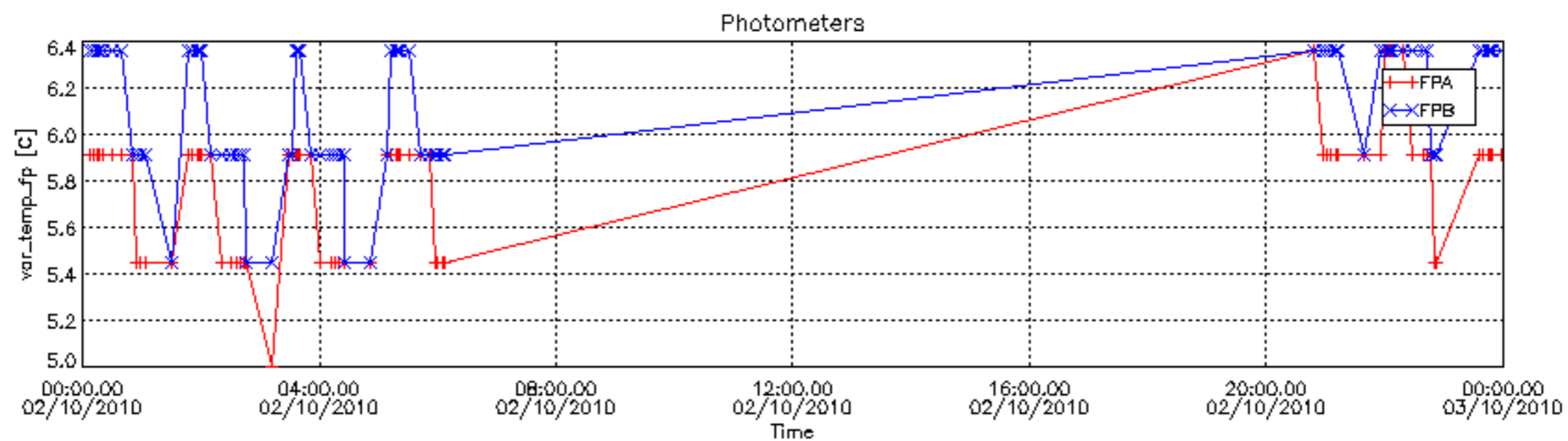
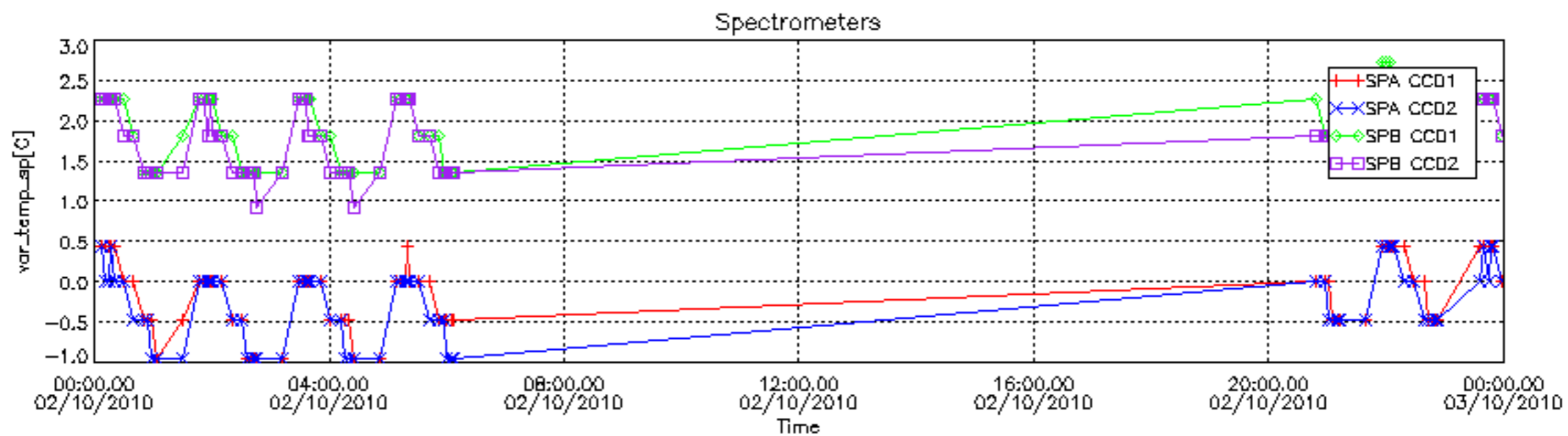


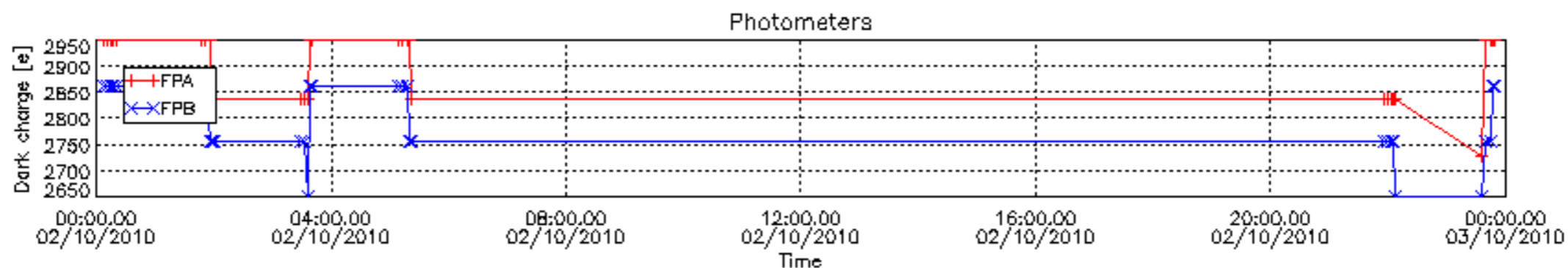
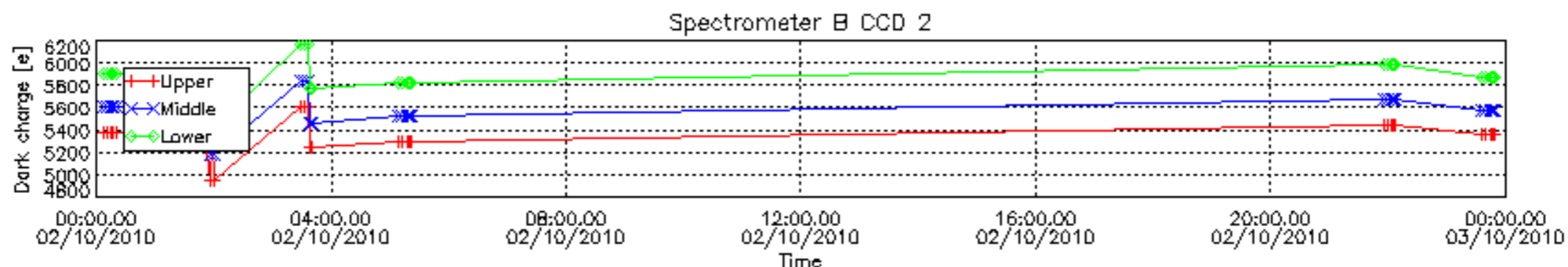
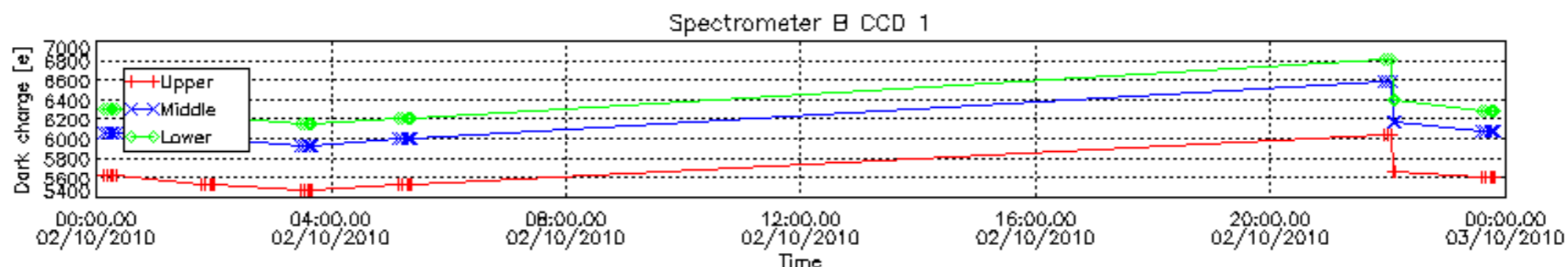
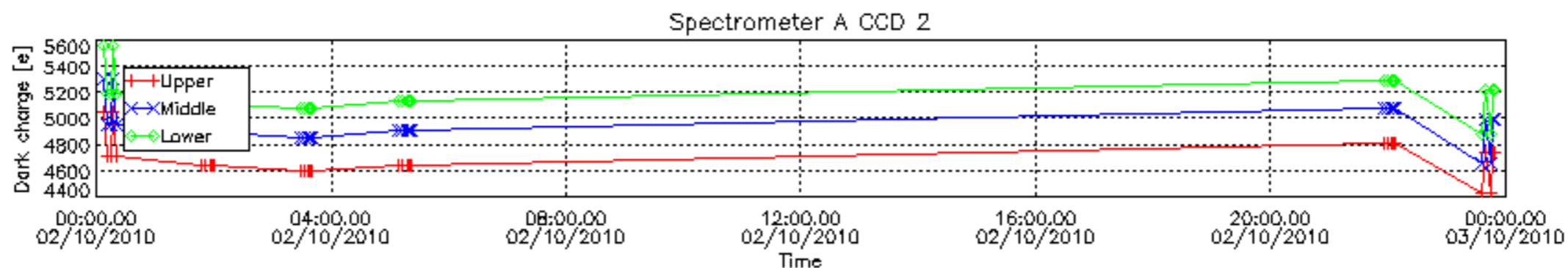
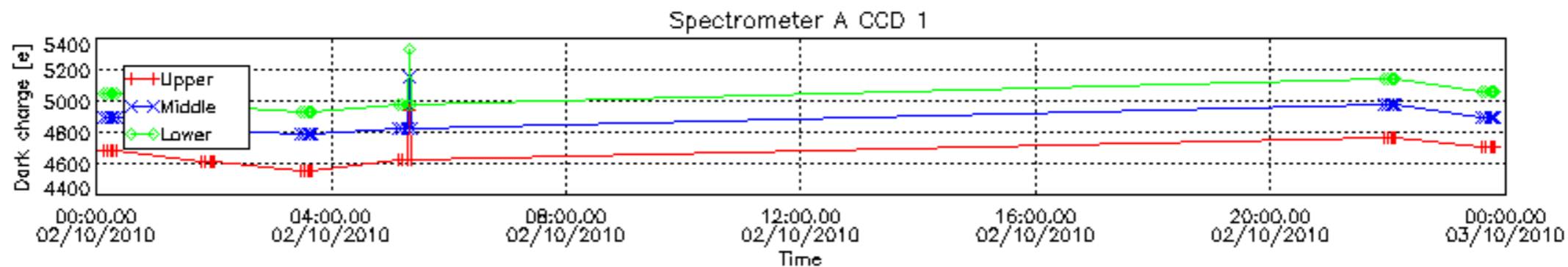
8. Auxiliary Data Files used for the production reported in section 2.4

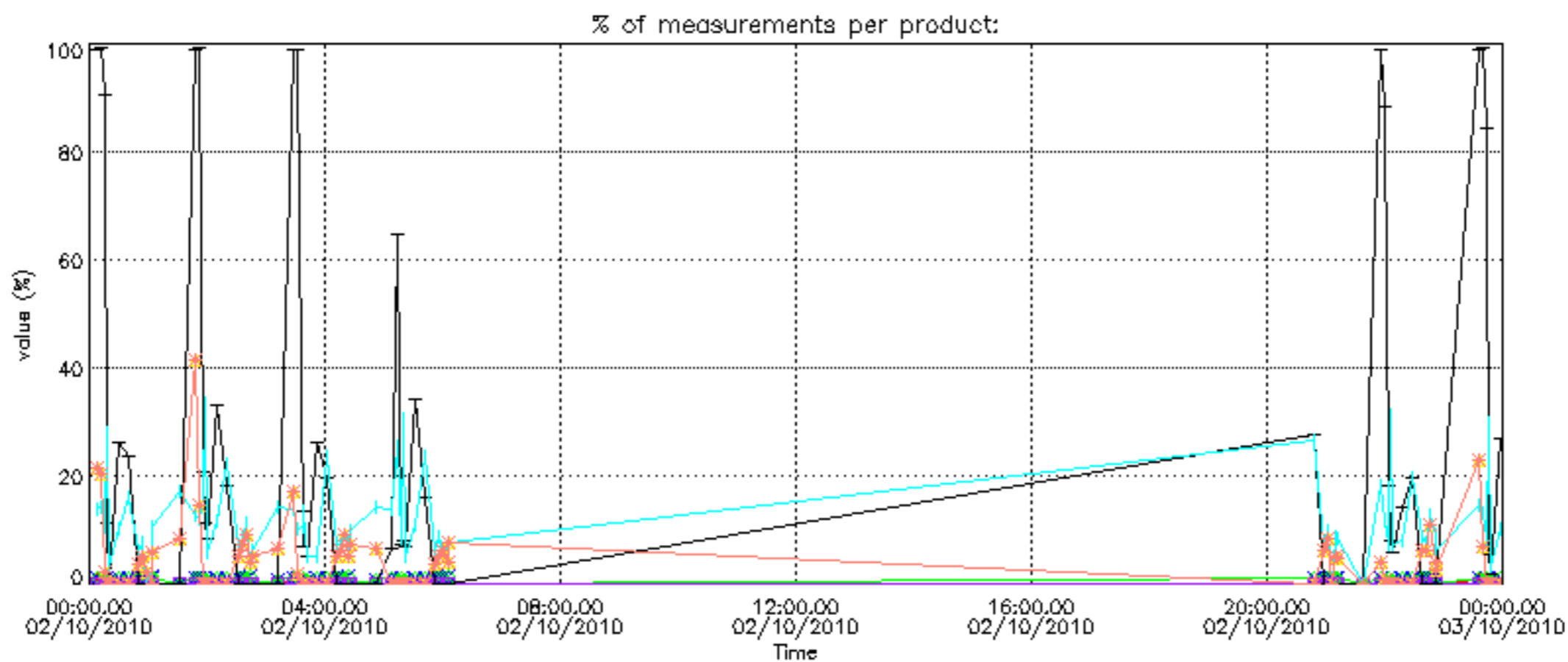
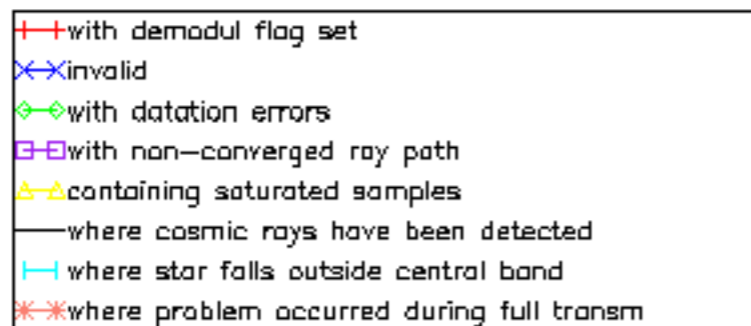
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	02-OCT-2010 00:07:03
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100923_133008_20100922_000000_20500101_000000	1	02-OCT-2010 00:07:03
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	02-OCT-2010 00:07:03
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-OCT-2010 00:07:03
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	02-OCT-2010 00:07:03
ECMWF_FILE	AUX_ECA_AXNECM20101002_052114_20101001_210000_20101002_090000	1	02-OCT-2010 00:07:03
ECMWF_FILE	AUX_ECF_AXNECM20101002_060437_20101002_150000_20101003_030000	52	02-OCT-2010 20:47:35
ECMWF_FILE	AUX_ECF_AXNECM20101002_060438_20101002_210000_20101003_090000	59	02-OCT-2010 21:55:01
OPTIONAL_ECMWF_FILE	MISSING	1	02-OCT-2010 00:07:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101002_000204_000054192093_00259_44902_1176.N1	1	02-OCT-2010 00:07:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101002_013742_000041442093_00260_44903_1177.N1	14	02-OCT-2010 01:47:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101002_025205_000057382093_00261_44904_1178.N1	26	02-OCT-2010 03:11:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101002_043302_000057382093_00262_44905_1179.N1	39	02-OCT-2010 04:52:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101002_203443_000041442093_00272_44915_1180.N1	52	02-OCT-2010 20:47:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101002_214906_000057382093_00272_44915_1181.N1	59	02-OCT-2010 21:55:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101002_233003_000057382093_00273_44916_1182.N1	71	02-OCT-2010 23:35:38

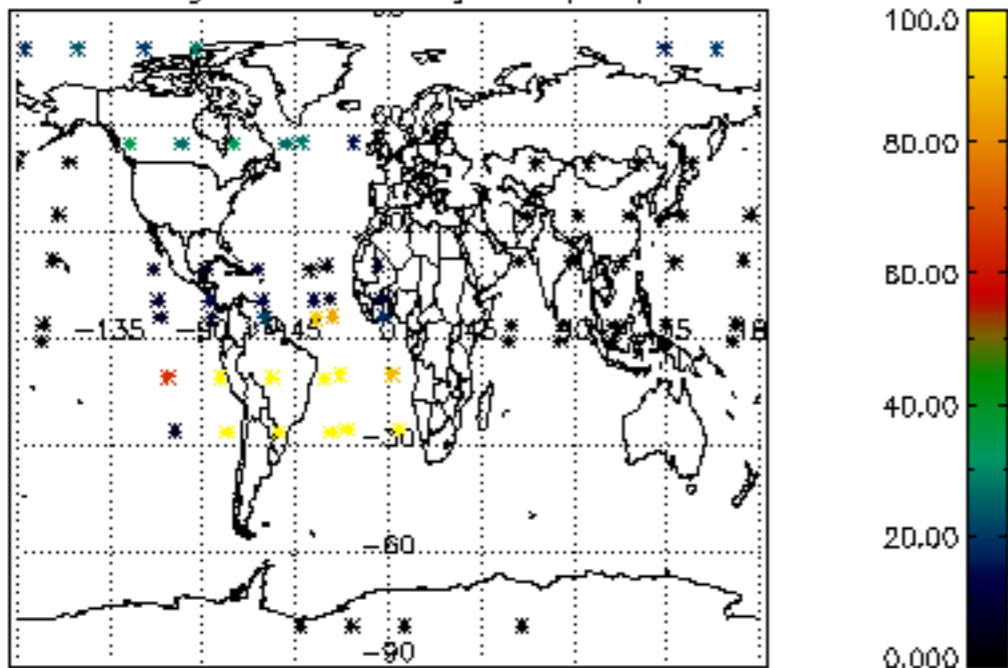




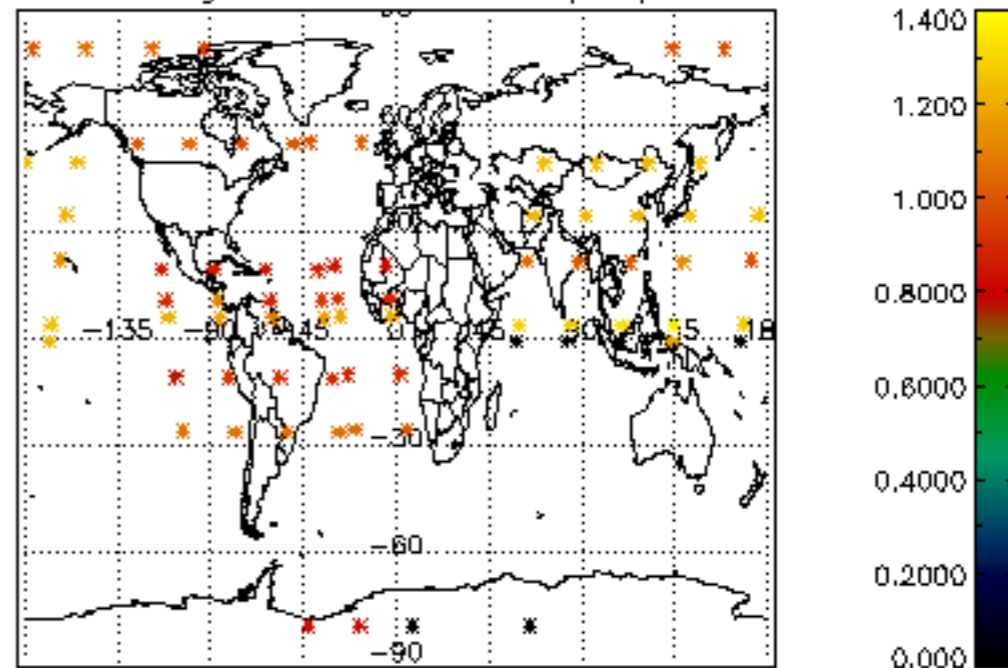




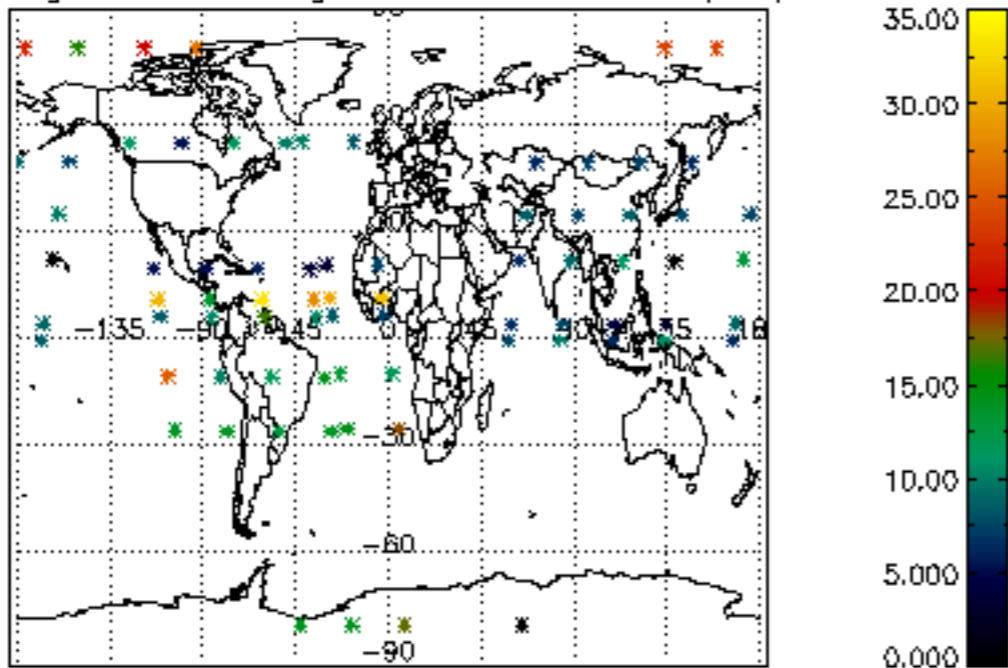
Percentage of cosmic ray hits per profile



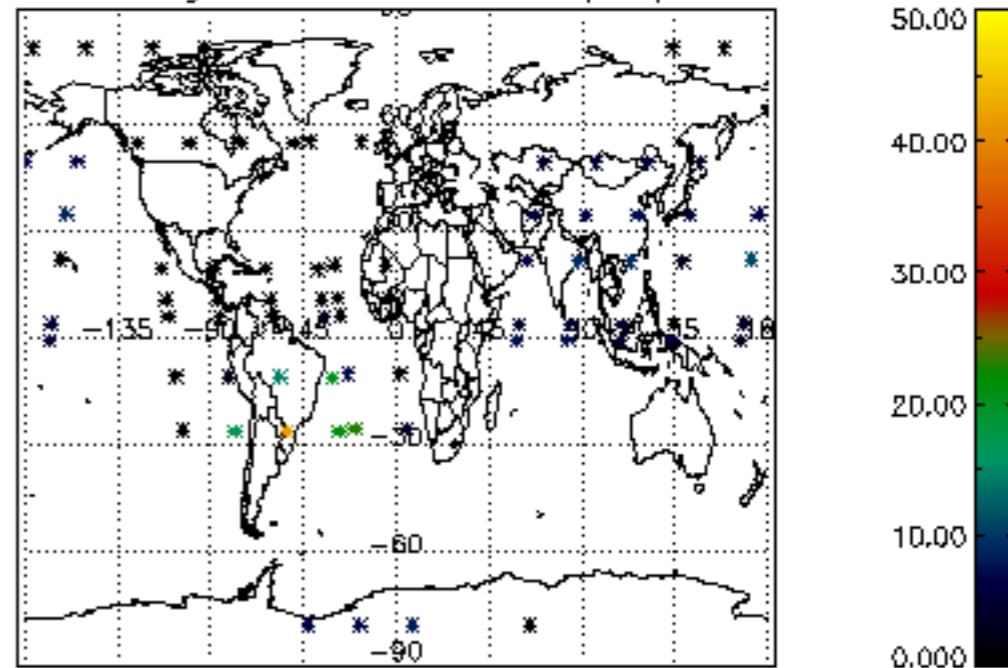
Percentage of datation errors per profile



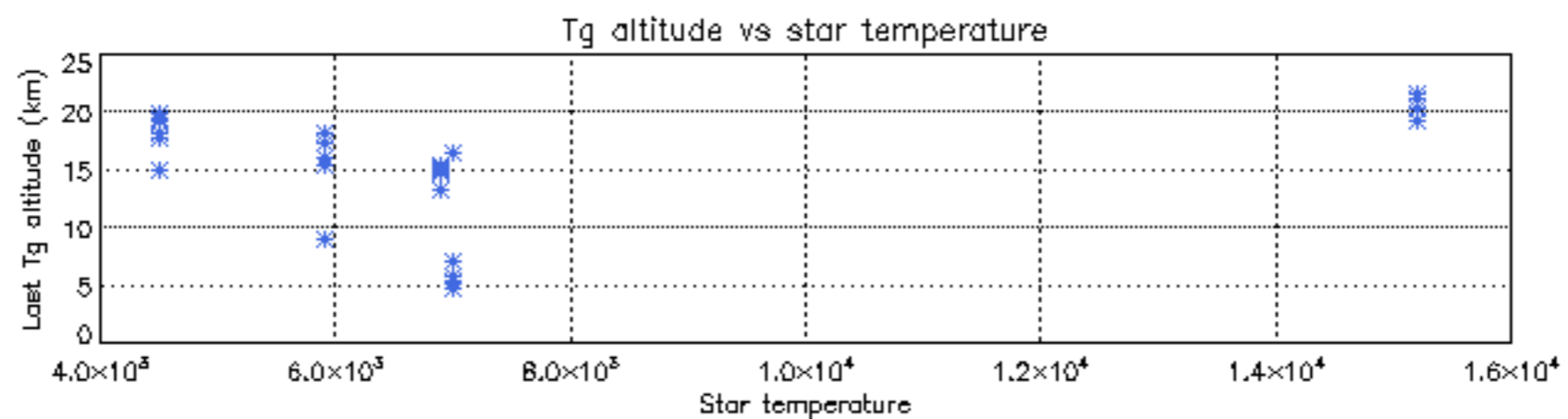
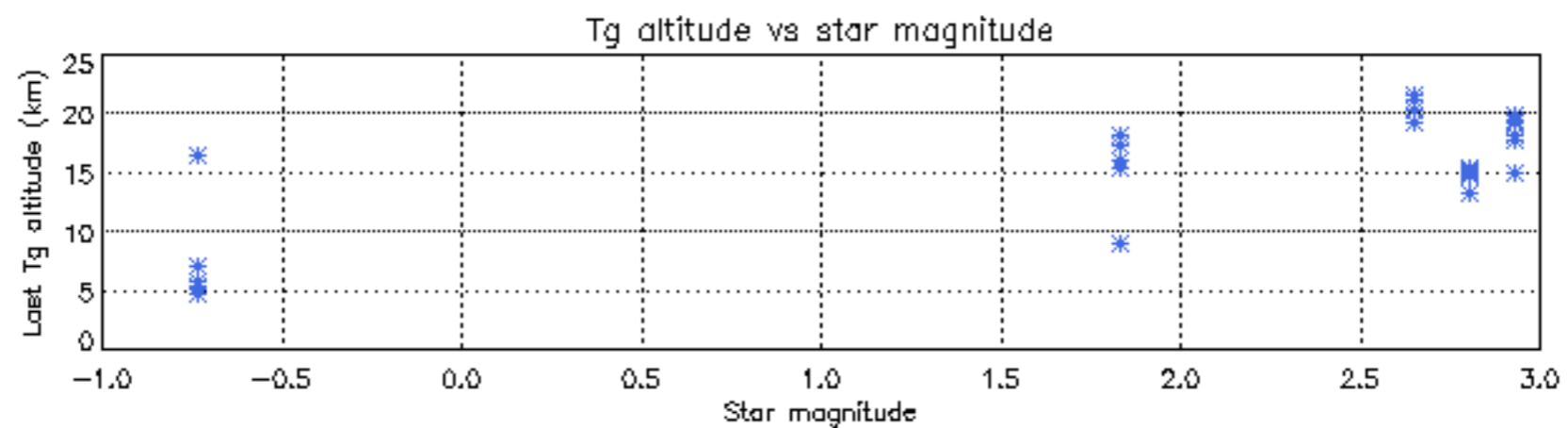
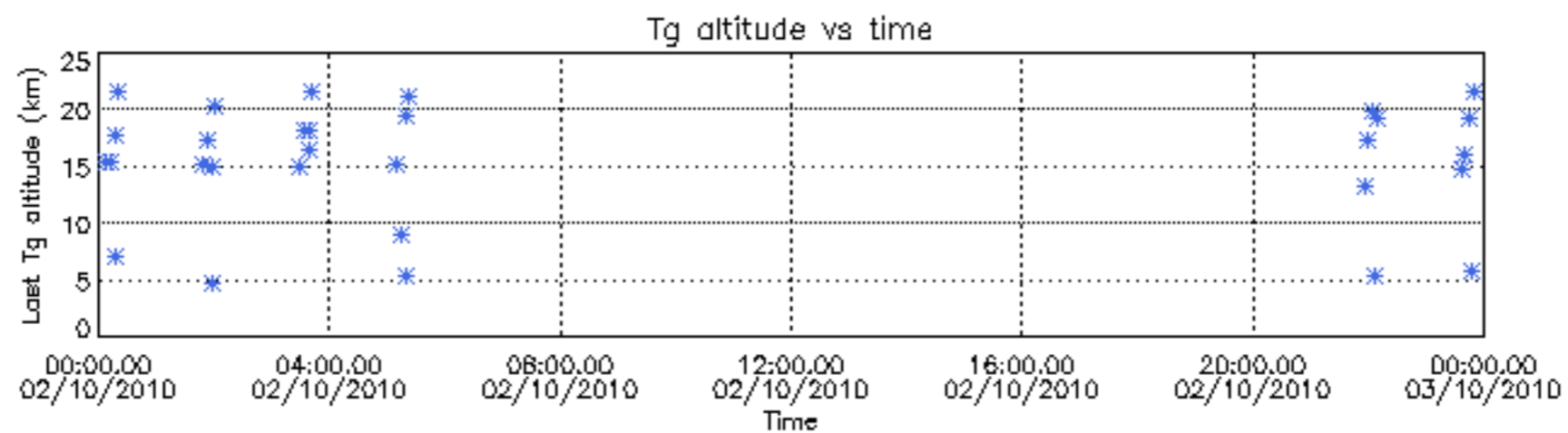
Percentage of star falling outside central band per profile



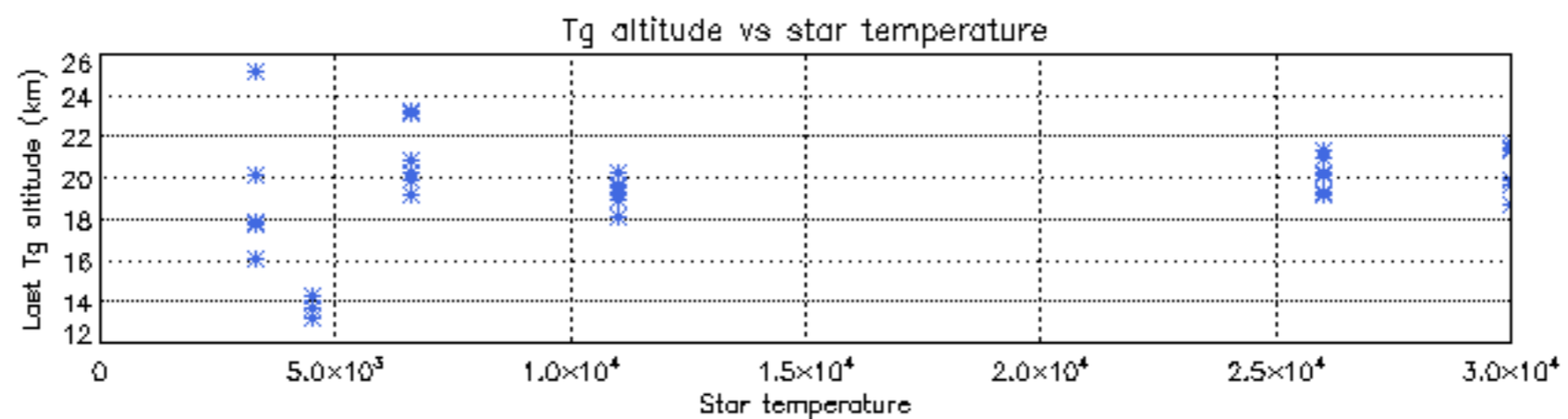
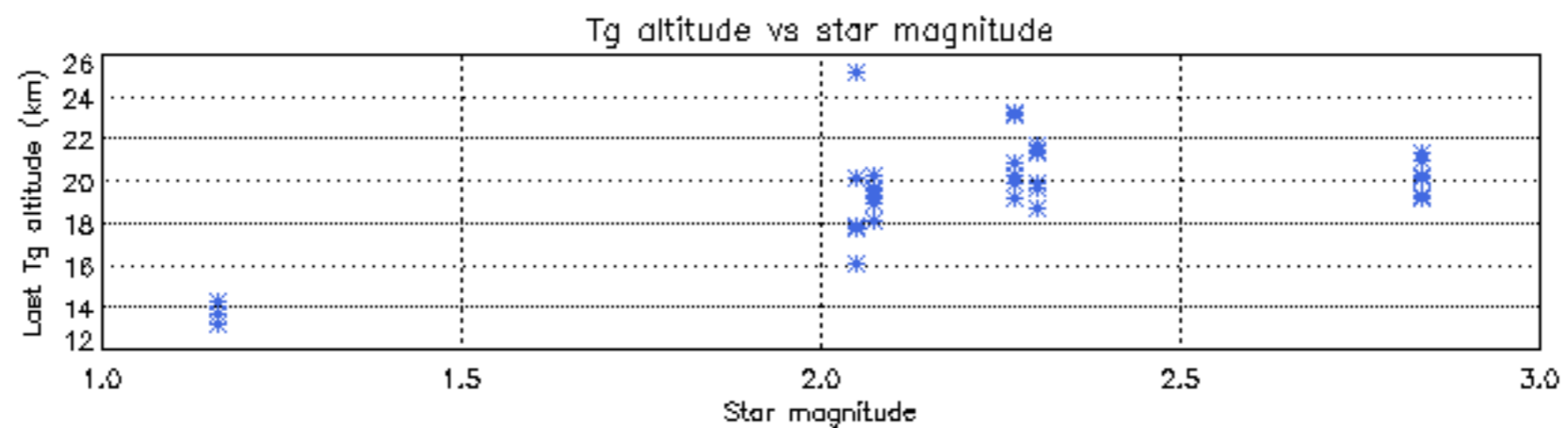
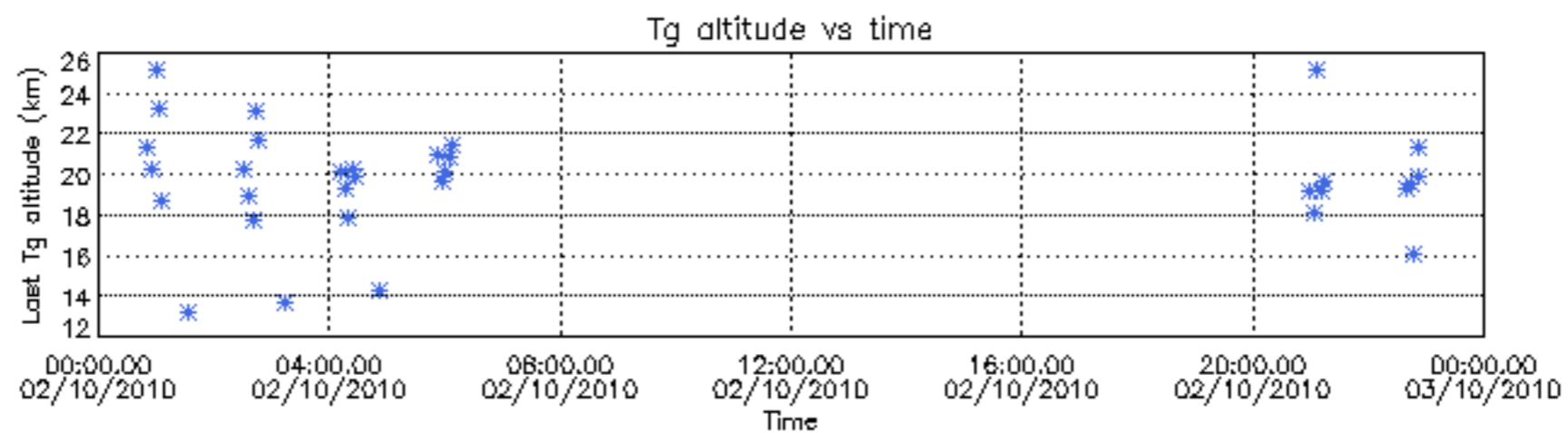
Percentage of saturation errors per profile

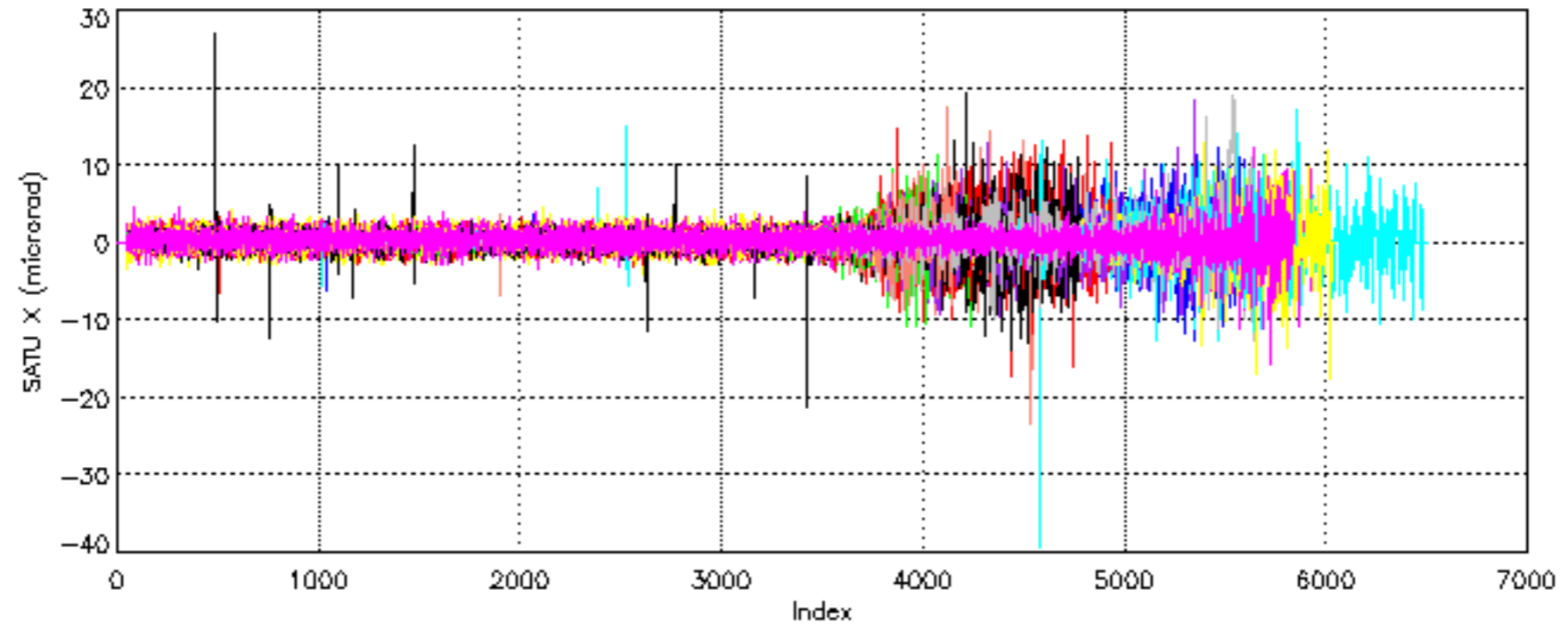


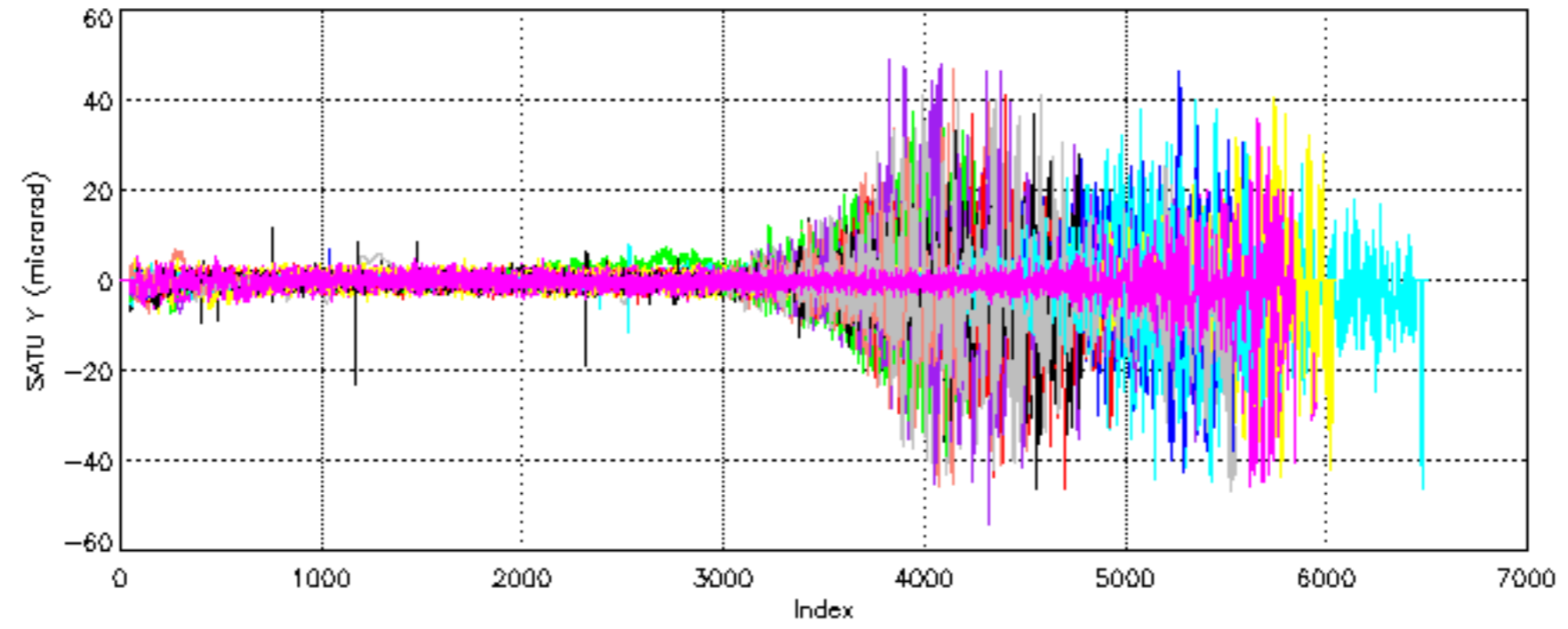
Tangent altitude at which the star is lost

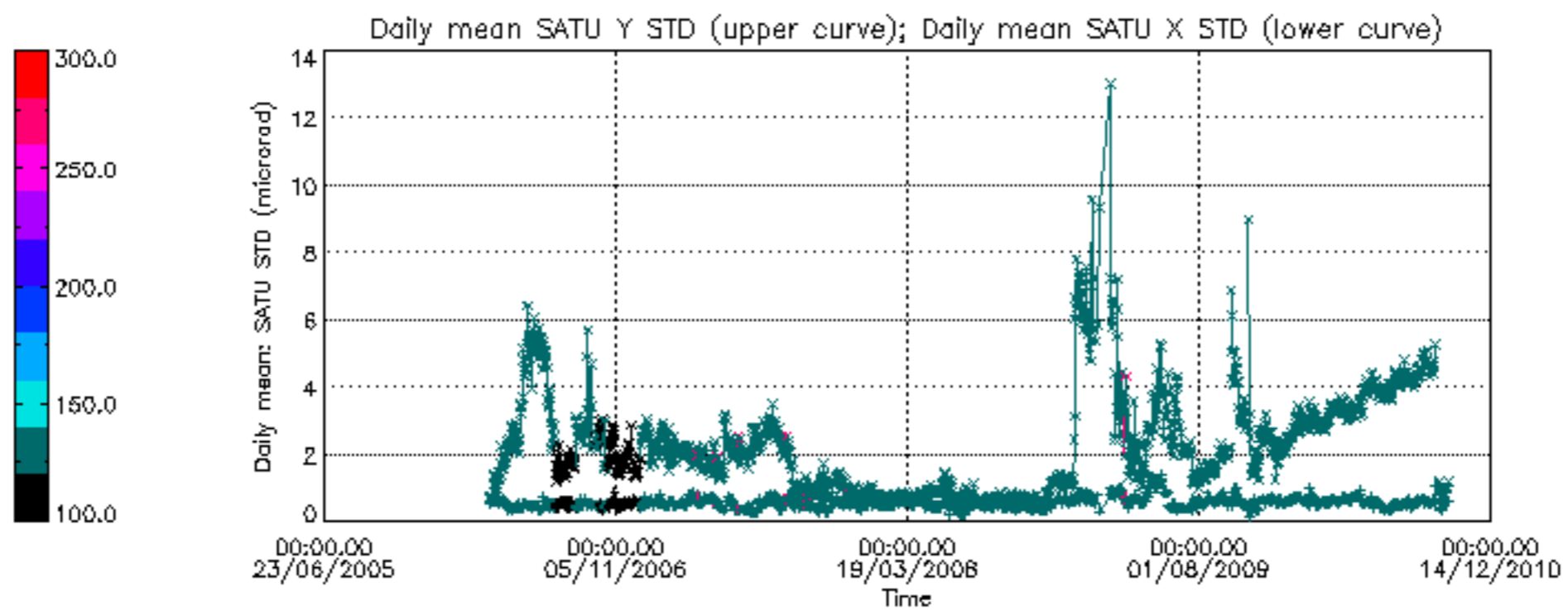


Tangent altitude at which the star is lost









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 2; -204.7; 01-OCT-2010 00:42:36; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44888
 3; -44.1; 01-OCT-2010 00:45:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44888
 4; 168.4; 01-OCT-2010 00:48:49; Dark ; 53.5; 2; Alp Car ;-0.74; 7000;occ; 107; 0;44889
 5; 300.4; 01-OCT-2010 00:51:01; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44889
 6; 912.7; 01-OCT-2010 01:01:14; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44889
 7; 1556.6; 01-OCT-2010 01:11:57; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;44889
 8; 2185.8; 01-OCT-2010 01:22:27; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44889
 9; 2435.7; 01-OCT-2010 01:26:37; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44889
 10; 2662.3; 01-OCT-2010 01:30:23; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;44889
 11; 2951.5; 01-OCT-2010 01:35:12; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44889
 12; 3032.9; 01-OCT-2010 01:36:34; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44889
 13; 4512.1; 01-OCT-2010 02:01:13; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;44889
 14; 4600.3; 01-OCT-2010 02:02:41; Bright; 76.5; 17; 78Bet Gem ; 1.16; 4500;occ; 153; 0;44889

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1; -875.0; 01-OCT-2010 02:12:02; Dark ; 38.0; 8; 10Alp CMi ; 0.40; 6500;occ; 76; 0;44889
 2; -451.6; 01-OCT-2010 02:19:05; Dark ; 48.5; 132; 15Rho Pup ; 2.80; 6900;occ; 97; 0;44889
 3; -203.5; 01-OCT-2010 02:23:13; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44889
 4; -43.4; 01-OCT-2010 02:25:53; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44889
 5; 169.1; 01-OCT-2010 02:29:26; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;44890
 6; 302.0; 01-OCT-2010 02:31:39; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44890
 7; 913.7; 01-OCT-2010 02:41:50; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44890
 8; 1557.0; 01-OCT-2010 02:52:34; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44890
 9; 2185.6; 01-OCT-2010 03:03:02; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44890
 10; 2435.4; 01-OCT-2010 03:07:12; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44890
 11; 2661.7; 01-OCT-2010 03:10:58; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;44890
 12; 2951.6; 01-OCT-2010 03:15:48; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44890
 13; 3032.4; 01-OCT-2010 03:17:09; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44890

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 2; -1435.2; 01-OCT-2010 03:43:18; Bright; 73.0; 17; 78Bet Gem ; 1.16; 4500;occ; 146; 0;44890
 3; -874.0; 01-OCT-2010 03:52:39; Dark ; 30.0; 8; 10Alp CMi ; 0.40; 6500;occ; 60; 0;44890
 4; -450.8; 01-OCT-2010 03:59:42; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44890
 5; -202.1; 01-OCT-2010 04:03:51; Dark ; 65.0; 37; 25Del CMA ; 1.83; 5900;occ; 130; 0;44890
 6; -42.6; 01-OCT-2010 04:06:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44890
 7; 169.8; 01-OCT-2010 04:10:03; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;44891
 8; 303.6; 01-OCT-2010 04:12:16; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44891
 9; 914.5; 01-OCT-2010 04:22:27; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44891
 10; 1557.3; 01-OCT-2010 04:33:10; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44891
 11; 2185.6; 01-OCT-2010 04:43:38; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44891
 12; 2435.5; 01-OCT-2010 04:47:48; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44891
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 5; -200.8; 01-OCT-2010 05:44:28; Dark ; 64.5; 37; 25Del CMA ; 1.83; 5900;occ; 129; 0;44891
 6; -41.9; 01-OCT-2010 05:47:07; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44891
 7; 170.7; 01-OCT-2010 05:50:39; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;44892
 8; 305.2; 01-OCT-2010 05:52:54; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44892
 9; 915.1; 01-OCT-2010 06:03:04; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44892
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 11; 2185.4; 01-OCT-2010 06:24:14; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44892
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 5; 171.4; 01-OCT-2010 07:31:16; Dark ; 60.0; 2; Alp Car ;-0.74; 7000;occ; 120; 0;44893
 6; 306.8; 01-OCT-2010 07:33:31; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44893

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7; 915.8; 01-OCT-2010 07:43:40; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;44893
8; 1557.5; 01-OCT-2010 07:54:22; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;44893
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3; 2659.8; 01-OCT-2010 08:12:44; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;44893
4; 2950.9; 01-OCT-2010 08:17:36; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44893
5; 3031.4; 01-OCT-2010 08:18:56; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44893
6; 4601.5; 01-OCT-2010 08:45:06; Bright; 77.0; 17; 78Bet Gem ; 1.16; 4500;occ; 154; 0;44893
7; 5587.7; 01-OCT-2010 09:01:32; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44893
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 8; 4607.4; 02-OCT-2010 19:57:46; Bright; 29.0; 17; 78Bet Gem ; 1.16; 4500;occ; 58; 0;44914
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 4; 187.6; 02-OCT-2010 20:24:42; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;44915
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14; 8980.3; 03-OCT-2010 05:33:39; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;44919
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9; 2179.7; 03-OCT-2010 07:01:30; Bright; 38.5; 140; 88Gam Peg ; 2.83; 26000;occ; 77; 0;44921
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7; 3196.4; 06-OCT-2010 17:27:46; Bright; 50.5; 160; 23Gam Per ; 2.93; 4700;occ; 101; 0;44970
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8; 4603.6; 06-OCT-2010 19:31:50; Bright; 36.0; 166; 17Eps Leo ; 2.98; 6000;occ; 72; 0;44971

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3; 2606.0; 07-OCT-2010 11:44:31; Bright; 44.5; 53; 43Bet And ; 2.05; 3300;occ; 89; 0;44981
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 5; 2775.4; 14-OCT-2010 21:30:47; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;45087
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 9; 5289.2; 17-OCT-2010 13:55:25; Dark ; 54.0; 48; 30Alp Hya ; 1.98; 4100;occ; 108; 0;45125
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 9; 5290.1; 17-OCT-2010 15:36:02; Dark ; 54.0; 48; 30Alp Hya ; 1.98; 4100;occ; 108; 0;45126
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 3; 2891.7; 19-OCT-2010 15:33:25; Bright; 37.0; 79; 26Bet Per ; 2.31; 13100;occ; 74; 0;45155
 4; 2973.0; 19-OCT-2010 15:34:47; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;45155
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 6; 4647.9; 19-OCT-2010 16:02:41; Bright; 44.0; 166; 17Eps Leo ; 2.98; 6000;occ; 88; 0;45155
 7; 4849.1; 19-OCT-2010 16:06:03; Bright; 46.0; 22; 32Alp Leo ; 1.36; 15200;occ; 92; 0;45155
 8; 5312.5; 19-OCT-2010 16:13:46; Dark ; 54.5; 48; 30Alp Hya ; 1.98; 4100;occ; 109; 0;45155
 9; 5879.2; 19-OCT-2010 16:23:13; Dark ; 56.0; 132; 15Rho Pup ; 2.80; 6900;occ; 112; 0;45155
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 13; 7105.8; 19-OCT-2010 16:43:39; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;45155

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 3; 2539.6; 19-OCT-2010 17:08:09; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;45156
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 6; 2972.5; 19-OCT-2010 17:15:22; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;45156
 7; 3058.9; 19-OCT-2010 17:16:48; Bright; 53.5; 35; 33Alp Per ; 1.79; 6250;occ; 107; 0;45156
 8; 4648.3; 19-OCT-2010 17:43:18; Bright; 60.0; 166; 17Eps Leo ; 2.98; 6000;occ; 120; 0;45156
 9; 4849.5; 19-OCT-2010 17:46:39; Bright; 60.0; 22; 32Alp Leo ; 1.36; 15200;occ; 120; 0;45156
 10; 5313.3; 19-OCT-2010 17:54:23; Dark ; 54.5; 48; 30Alp Hya ; 1.98; 4100;occ; 109; 0;45156
 11; 5880.8; 19-OCT-2010 18:03:50; Dark ; 54.0; 132; 15Rho Pup ; 2.80; 6900;occ; 108; 0;45156
 12; 6077.7; 19-OCT-2010 18:07:07; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;45156
 13; 6216.2; 19-OCT-2010 18:09:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45156
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 3; 2539.5; 19-OCT-2010 18:48:45; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 79; 0;45157
 4; 2733.4; 19-OCT-2010 18:51:59; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;45157
 5; 2889.9; 19-OCT-2010 18:54:35; Bright; 42.0; 79; 26Bet Per ; 2.31; 13100;occ; 84; 0;45157
 6; 2972.2; 19-OCT-2010 18:55:58; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;45157
 7; 3058.0; 19-OCT-2010 18:57:24; Bright; 50.0; 35; 33Alp Per ; 1.79; 6250;occ; 100; 0;45157
 8; 4648.4; 19-OCT-2010 19:23:54; Bright; 45.0; 166; 17Eps Leo ; 2.98; 6000;occ; 90; 0;45157
 9; 4849.8; 19-OCT-2010 19:27:15; Bright; 40.5; 22; 32Alp Leo ; 1.36; 15200;occ; 81; 0;45157


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12; 6078.4; 19-OCT-2010 19:47:44; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;45157
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3; 44.9; 20-OCT-2010 00:49:34; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;45161
4; 183.9; 20-OCT-2010 00:51:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45161
5; 384.2; 20-OCT-2010 00:55:13; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;45161
6; 1072.1; 20-OCT-2010 01:06:41; Dark ; 42.0; 157; The1Eri ; 2.91; 9300;occ; 84; 0;45161
7; 2322.7; 20-OCT-2010 01:27:32; Bright; 45.0; 105; 6Bet Ari ; 2.64; 8900;occ; 90; 0;45161
8; 2538.1; 20-OCT-2010 01:31:07; Bright; 42.5; 53; 43Bet And ; 2.05; 3300;occ; 85; 0;45161
9; 2731.3; 20-OCT-2010 01:34:20; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;45161
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4; 45.7; 20-OCT-2010 02:30:11; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;45162
5; 184.8; 20-OCT-2010 02:32:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45162
6; 385.1; 20-OCT-2010 02:35:50; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;45162
7; 1072.4; 20-OCT-2010 02:47:17; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;45162
8; 2322.2; 20-OCT-2010 03:08:07; Bright; 45.0; 105; 6Bet Ari ; 2.64; 8900;occ; 90; 0;45162
9; 2537.8; 20-OCT-2010 03:11:43; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;45162
10; 2730.7; 20-OCT-2010 03:14:56; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;45162
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11; 2730.3; 20-OCT-2010 04:55:31; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;45163
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3; -717.2; 20-OCT-2010 05:38:40; Dark ; 56.5; 48; 30Alp Hya ; 1.98; 4100;occ; 113; 0;45163
4; -145.1; 20-OCT-2010 05:48:12; Dark ; 55.0; 132; 15Rho Pup ; 2.80; 6900;occ; 110; 0;45163
5; 47.3; 20-OCT-2010 05:51:24; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;45164
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8; 1073.6; 20-OCT-2010 06:08:30; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;45164
9; 2321.3; 20-OCT-2010 06:29:18; Bright; 44.5; 105; 6Bet Ari ; 2.64; 8900;occ; 89; 0;45164
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4; 2725.0; 20-OCT-2010 21:41:25; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;45173
5; 2968.1; 20-OCT-2010 21:45:28; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;45173
6; 3087.3; 20-OCT-2010 21:47:27; Bright; 28.0; 175; 39Del Per ; 3.01; 19400;occ; 56; 0;45173
7; 4652.8; 20-OCT-2010 22:13:33; Bright; 65.0; 166; 17Eps Leo ; 2.98; 6000;occ; 130; 0;45173
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8; 5895.1; 20-OCT-2010 10:50:04; Dark ; 58.5; 132; 15Rho Pup ; 2.80; 6900;occ; 117; 0;45166
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6; 3089.2; 20-OCT-2010 18:26:17; Bright; 25.0; 175; 39Del Per ; 3.01; 19400;occ; 50; 0;45171
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 7; 4861.1; 21-OCT-2010 18:24:12; Bright; 40.5; 22; 32Alp Leo ; 1.36; 15200;occ; 81; 0;45185
 8; 5337.5; 21-OCT-2010 18:32:08; Dark ; 54.5; 48; 30Alp Hya ; 1.98; 4100;occ; 109; 0;45185
 9; 5924.0; 21-OCT-2010 18:41:55; Dark ; 58.5; 132; 15Rho Pup ; 2.80; 6900;occ; 117; 0;45185
10; 6067.5; 21-OCT-2010 18:44:18; Dark ; 48.0; 70; Zet Pup ; 2.25; 39000;occ; 96; 0;45185
11; 6242.8; 21-OCT-2010 18:47:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45185
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 2; 2313.0; 21-OCT-2010 19:22:20; Bright; 42.5; 105; 6Bet Ari ; 2.64; 8900;occ; 85; 0;45186
 3; 2532.6; 21-OCT-2010 19:25:59; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;45186
 4; 2718.6; 21-OCT-2010 19:29:05; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;45186
 5; 2861.3; 21-OCT-2010 19:31:28; Bright; 51.5; 79; 26Bet Per ; 2.31; 13100;occ; 103; 0;45186
 6; 3022.9; 21-OCT-2010 19:34:10; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;45186
 7; 4656.6; 21-OCT-2010 20:01:24; Bright; 45.5; 166; 17Eps Leo ; 2.98; 6000;occ; 91; 0;45186
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