

GOMOS Daily Report 30-SEP-2010

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	03OCT2010 04:46:19
Data source version	GOMOS/5.01
Start time of products	30SEP2010 00:02:57
Stop time of products	30SEP2010 23:55:58
Store outputs in DB	Yes
Nb of level 1b prods	89
Nb of prods with errors	0

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

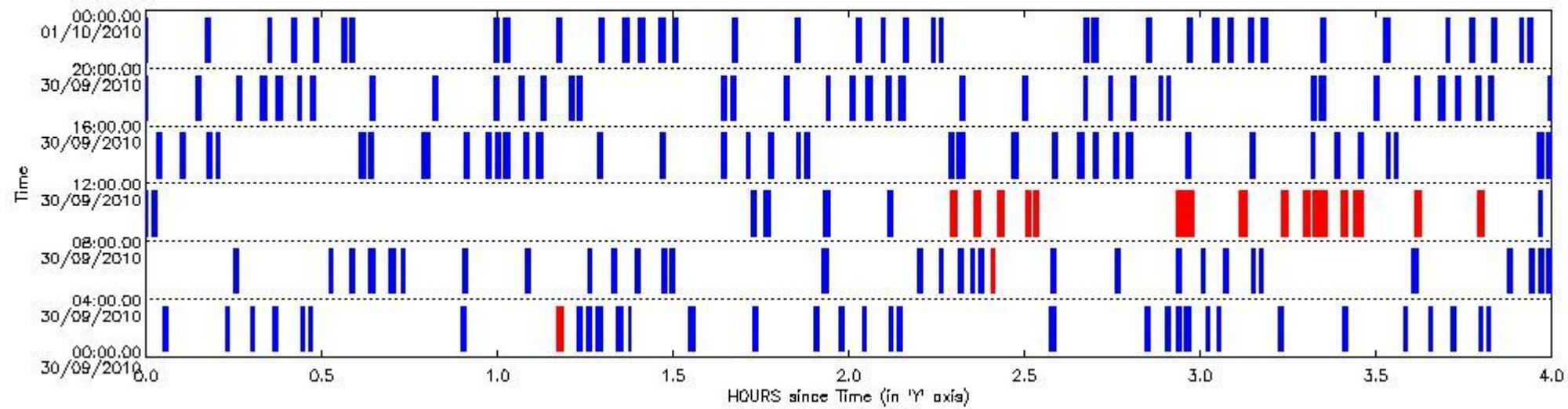
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
30-SEP-2010 01:10:06	15RhoPup	132	44874
30-SEP-2010 06:24:21	AlpCol	108	44878
30-SEP-2010 10:17:17	88GamPeg	140	44880
30-SEP-2010 10:21:27	21AlpAnd	58	44880
30-SEP-2010 10:25:18	43BetAnd	53	44880
30-SEP-2010 10:30:03	11BetCas	74	44880
30-SEP-2010 10:31:25	27GamCas	76	44880
30-SEP-2010 10:56:00	66AlpGem	24	44880
30-SEP-2010 10:57:27	78BetGem	17	44880
30-SEP-2010 11:06:41	10AlpCMi	8	44880
30-SEP-2010 11:13:46	15RhoPup	132	44880
30-SEP-2010 11:17:36	ZetPup	70	44880
30-SEP-2010 11:19:15	PiPup	117	44880
30-SEP-2010 11:20:35	DSA1055	0	44880
30-SEP-2010 11:24:07	AlpCar	2	44881

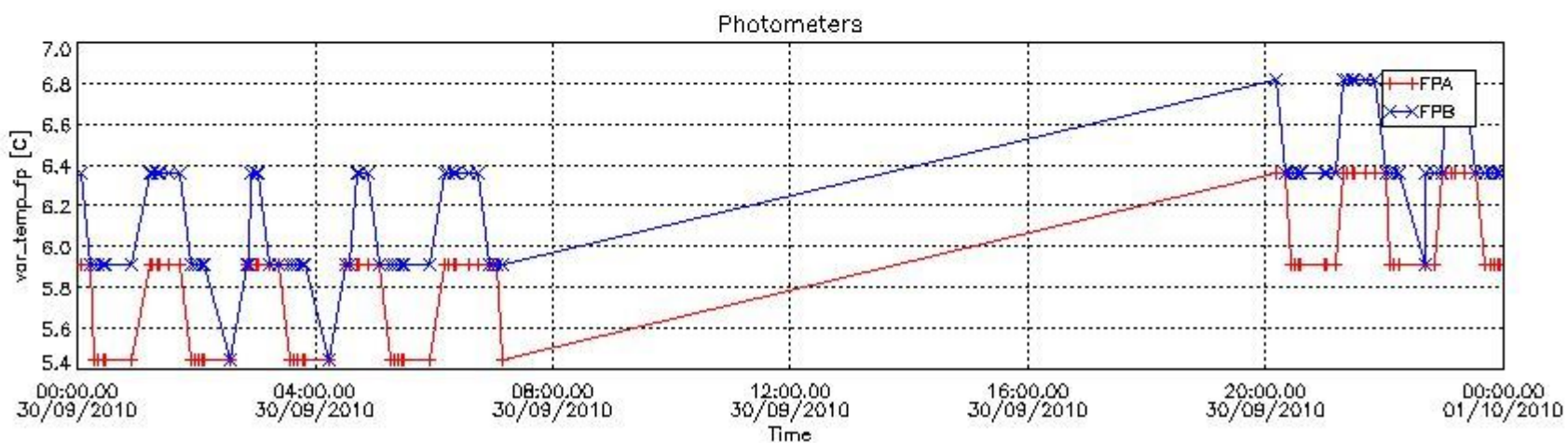
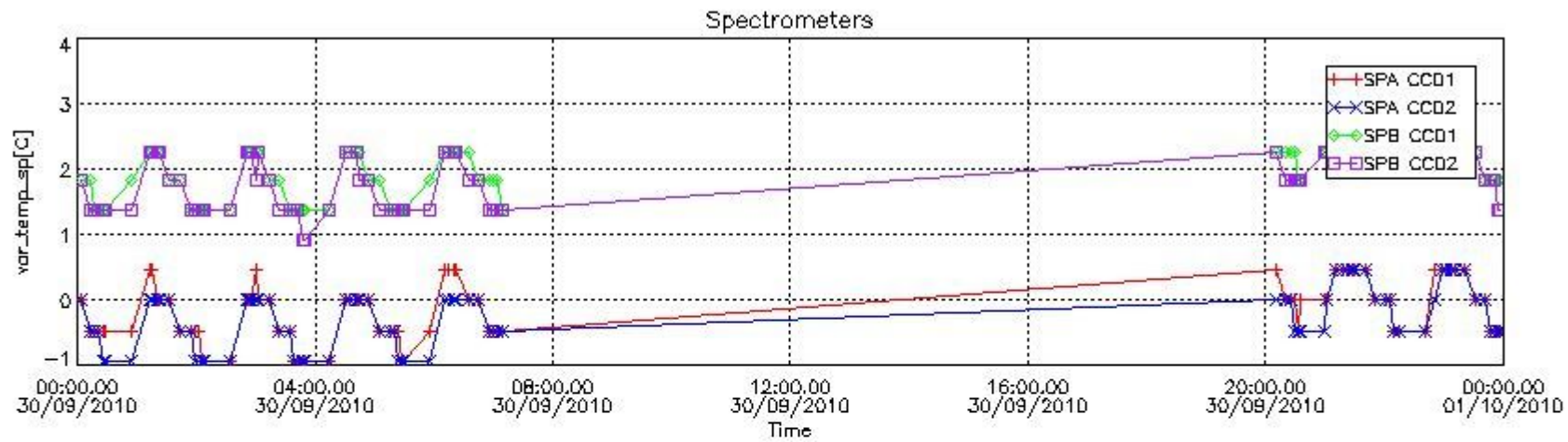
30-SEP-2010 11:26:13	AlpCol	108	44881
30-SEP-2010 11:36:32	The1Eri	157	44881
30-SEP-2010 11:47:21	16BetCet	52	44881

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_1PNPDE20100930_000257_000000502093_00231_44874_7508.N1	30-SEP-2010 00:02:57	Straylight	49.500	52	16Bet Cet	2.0370	4500.0	99	44874	No
2	GOM_TRA_1PNPDE20100930_001332_000000412093_00231_44874_7509.N1	30-SEP-2010 00:13:32	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	44874	No
3	GOM_TRA_1PNPDE20100930_001743_000000402093_00231_44874_7510.N1	30-SEP-2010 00:17:43	Bright	39.500	58	21Alp And	2.0730	11000.	79	44874	No
4	GOM_TRA_1PNPDE20100930_002136_000000522093_00231_44874_7511.N1	30-SEP-2010 00:21:36	Bright	52.000	53	43Bet And	2.0480	3300.0	104	44874	No
5	GOM_TRA_1PNPDE20100930_002618_000000402093_00231_44874_7512.N1	30-SEP-2010 00:26:18	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	44874	No
6	GOM_TRA_1PNPDE20100930_002741_000000412093_00231_44874_7513.N1	30-SEP-2010 00:27:41	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	44874	No
7	GOM_TRA_1PNPDE20100930_005339_000000572093_00231_44874_7514.N1	30-SEP-2010 00:53:39	Bright	57.000	17	78Bet Gem	1.1610	4500.0	114	44874	No
8	GOM_TRA_1PNPDE20100930_011327_000000482093_00231_44874_7540.N1	30-SEP-2010 01:13:27	Dark	47.500	88	31Eta CMa	2.4480	20000.	95	44874	No
9	GOM_TRA_1PNPDE20100930_011508_000000512093_00231_44874_7541.N1	30-SEP-2010 01:15:08	Dark	50.500	23	21Eps CMa	1.5020	26000.	101	44874	No
10	GOM_TRA_1PNPDE20100930_012016_000000562093_00232_44875_7542.N1	30-SEP-2010 01:20:16	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	44875	No
11	GOM_TRA_1PNPDE20100930_012218_000000282093_00232_44875_7543.N1	30-SEP-2010 01:22:18	Dark	28.000	108	Alp Col	2.6520	15200.	56	44875	No
12	GOM_TRA_1PNPDE20100930_013240_000000522093_00232_44875_7544.N1	30-SEP-2010 01:32:40	Straylight	52.000	157	The1Eri	2.9060	9300.0	104	44875	No
13	GOM_TRA_1PNPDE20100930_014333_000000522093_00232_44875_7545.N1	30-SEP-2010 01:43:33	Straylight	51.500	52	16Bet Cet	2.0370	4500.0	103	44875	No
14	GOM_TRA_1PNPDE20100930_015407_000000422093_00232_44875_7546.N1	30-SEP-2010 01:54:07	Bright	41.500	140	88Gam Peg	2.8340	26000.	83	44875	No
15	GOM_TRA_1PNPDE20100930_015818_000000422093_00232_44875_7547.N1	30-SEP-2010 01:58:18	Bright	41.500	58	21Alp And	2.0730	11000.	83	44875	No
16	GOM_TRA_1PNPDE20100930_020211_000000492093_00232_44875_7548.N1	30-SEP-2010 02:02:11	Bright	48.500	53	43Bet And	2.0480	3300.0	97	44875	No
17	GOM_TRA_1PNPDE20100930_020654_000000382093_00232_44875_7549.N1	30-SEP-2010 02:06:54	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	44875	No
18	GOM_TRA_1PNPDE20100930_020817_000000392093_00232_44875_7550.N1	30-SEP-2010 02:08:17	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	44875	No
19	GOM_TRA_1PNPDE20100930_023415_000000592093_00232_44875_7551.N1	30-SEP-2010 02:34:15	Bright	59.000	17	78Bet Gem	1.1610	4500.0	118	44875	No
20	GOM_TRA_1PNPDE20100930_025031_000000482093_00232_44875_7552.N1	30-SEP-2010 02:50:31	Dark	48.000	132	15Rho Pup	2.8030	6900.0	96	44875	No
21	GOM_TRA_1PNPDE20100930_025404_000000482093_00232_44875_7553.N1	30-SEP-2010 02:54:04	Dark	48.000	88	31Eta CMa	2.4480	20000.	96	44875	No
22	GOM_TRA_1PNPDE20100930_025545_000000532093_00232_44875_7554.N1	30-SEP-2010 02:55:45	Dark	53.000	23	21Eps CMa	1.5020	26000.	106	44875	No
23	GOM_TRA_1PNPDE20100930_030053_000000452093_00233_44876_7555.N1	30-SEP-2010 03:00:53	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	44876	No
24	GOM_TRA_1PNPDE20100930_030255_000000262093_00233_44876_7556.N1	30-SEP-2010 03:02:55	Dark	26.000	108	Alp Col	2.6520	15200.	52	44876	No
25	GOM_TRA_1PNPDE20100930_031317_000000502093_00233_44876_7557.N1	30-SEP-2010 03:13:17	Straylight	50.000	157	The1Eri	2.9060	9300.0	100	44876	No
26	GOM_TRA_1PNPDE20100930_032409_000000492093_00233_44876_7558.N1	30-SEP-2010 03:24:09	Straylight	49.000	52	16Bet Cet	2.0370	4500.0	98	44876	No
27	GOM_TRA_1PNPDE20100930_033443_000000412093_00233_44876_7559.N1	30-SEP-2010 03:34:43	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	44876	No
28	GOM_TRA_1PNPDE20100930_033854_000000402093_00233_44876_7560.N1	30-SEP-2010 03:38:54	Bright	39.500	58	21Alp And	2.0730	11000.	79	44876	No
29	GOM_TRA_1PNPDE20100930_034246_000000482093_00233_44876_7561.N1	30-SEP-2010 03:42:46	Bright	48.000	53	43Bet And	2.0480	3300.0	96	44876	No
30	GOM_TRA_1PNPDE20100930_034729_000000392093_00233_44876_7576.N1	30-SEP-2010 03:47:29	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44876	No
31	GOM_TRA_1PNPDE20100930_034852_000000402093_00233_44876_7577.N1	30-SEP-2010 03:48:52	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	44876	No
32	GOM_TRA_1PNPDE20100930_041451_000000572093_00233_44876_7578.N1	30-SEP-2010 04:14:51	Bright	57.000	17	78Bet Gem	1.1610	4500.0	114	44876	No
33	GOM_TRA_1PNPDE20100930_043108_000000452093_00233_44876_7579.N1	30-SEP-2010 04:31:08	Dark	44.500	132	15Rho Pup	2.8030	6900.0	89	44876	No
34	GOM_TRA_1PNPDE20100930_043441_000000512093_00233_44876_7580.N1	30-SEP-2010 04:34:41	Dark	50.500	88	31Eta CMa	2.4480	20000.	101	44876	No
35	GOM_TRA_1PNPDE20100930_044130_000000522093_00234_44877_7581.N1	30-SEP-2010 04:41:30	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	44877	No
36	GOM_TRA_1PNPDE20100930_044333_000000262093_00234_44877_7582.N1	30-SEP-2010 04:43:33	Dark	26.000	108	Alp Col	2.6520	15200.	52	44877	No
37	GOM_TRA_1PNPDE20100930_045354_000000522093_00234_44877_7583.N1	30-SEP-2010 04:53:54	Straylight	52.000	157	The1Eri	2.9060	9300.0	104	44877	No
38	GOM_TRA_1PNPDE20100930_050445_000000512093_00234_44877_7584.N1	30-SEP-2010 05:04:45	Straylight	51.000	52	16Bet Cet	2.0370	4500.0	102	44877	No
39	GOM_TRA_1PNPDE20100930_051519_000000412093_00234_44877_7585.N1	30-SEP-2010 05:15:19	Bright	40.500	140	88Gam Peg	2.8340	26000.	81	44877	No
40	GOM_TRA_1PNPDE20100930_051930_000000412093_00234_44877_7586.N1	30-SEP-2010 05:19:30	Bright	40.500	58	21Alp And	2.0730	11000.	81	44877	No
41	GOM_TRA_1PNPDE20100930_052321_000000522093_00234_44877_7587.N1	30-SEP-2010 05:23:21	Bright	52.000	53	43Bet And	2.0480	3300.0	104	44877	No
42	GOM_TRA_1PNPDE20100930_052805_000000392093_00234_44877_7588.N1	30-SEP-2010 05:28:05	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44877	No
43	GOM_TRA_1PNPDE20100930_052928_000000392093_00234_44877_7589.N1	30-SEP-2010 05:29:28	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	44877	No
44	GOM_TRA_1PNPDE20100930_055527_000000592093_00234_44877_7596.N1	30-SEP-2010 05:55:27	Bright	59.000	17	78Bet Gem	1.1610	4500.0	118	44877	No
45	GOM_TRA_1PNPDE20100930_061145_000000482093_00234_44877_7597.N1	30-SEP-2010 06:11:45	Dark	47.500	132	15Rho Pup	2.8030	6900.0	95	44877	No
46	GOM_TRA_1PNPDE20100930_061518_000000482093_00234_44877_7598.N1	30-SEP-2010 06:15:18	Dark	48.000	88	31Eta CMa	2.4480	20000.	96	44877	No
47	GOM_TRA_1PNPDE20100930_062042_000000422093_00235_44878_7599.N1	30-SEP-2010 06:20:42	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	44878	No
48	GOM_TRA_1PNPDE20100930_062206_000000582093_00235_44878_7600.N1	30-SEP-2010 06:22:06	Dark	57.500	2	Alp Car	-0.73600	7000.0	115	44878	No
49	GOM_TRA_1PNPDE20100930_063430_000000512093_00235_44878_7601.N1	30-SEP-2010 06:34:30	Straylight	50.500	157	The1Eri	2.9060	9300.0	101	44878	No
50	GOM_TRA_1PNPDE20100930_064521_000000522093_00235_44878_7602.N1	30-SEP-2010 06:45:21	Straylight	52.000	52	16Bet Cet	2.0370	4500.0	104	44878	No
51	GOM_TRA_1PNPDE20100930_065554_000000412093_00235_44878_7603.N1	30-SEP-2010 06:55:54	Bright	40.500	140	88Gam Peg	2.8340	26000.	81	44878	No

52	GOM_TRA_1PNPDE20100930_070005_000000422093_00235_44878_7604.N1	30-SEP-2010 07:00:05	Bright	41.500	58	21Alp And	2.0730	11000.	83	44878	No
53	GOM_TRA_1PNPDE20100930_070356_000000462093_00235_44878_7605.N1	30-SEP-2010 07:03:56	Bright	45.500	53	43Bet And	2.0480	3300.0	91	44878	No
54	GOM_TRA_1PNPDE20100930_070841_000000382093_00235_44878_7606.N1	30-SEP-2010 07:08:41	Bright	37.500	74	11Bet Cas	2.2680	6600.0	75	44878	No
55	GOM_TRA_1PNPDE20100930_071004_000000412093_00235_44878_7607.N1	30-SEP-2010 07:10:04	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	44878	No
56	GOM_TRA_1PNPDE20100930_201010_000000502093_00243_44886_7682.N1	30-SEP-2010 20:10:10	Straylight	49.500	52	16Bet Cet	2.0370	4500.0	99	44886	No
57	GOM_TRA_1PNPDE20100930_202040_000000422093_00243_44886_7683.N1	30-SEP-2010 20:20:40	Bright	41.500	140	88Gam Peg	2.8340	26000.	83	44886	No
58	GOM_TRA_1PNPDE20100930_202450_000000392093_00243_44886_7684.N1	30-SEP-2010 20:24:50	Bright	39.000	58	21Alp And	2.0730	11000.	78	44886	No
59	GOM_TRA_1PNPDE20100930_202838_000000482093_00243_44886_7685.N1	30-SEP-2010 20:28:38	Bright	47.500	53	43Bet And	2.0480	3300.0	95	44886	No
60	GOM_TRA_1PNPDE20100930_203326_000000392093_00243_44886_7686.N1	30-SEP-2010 20:33:26	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44886	No
61	GOM_TRA_1PNPDE20100930_203447_000000432093_00243_44886_7687.N1	30-SEP-2010 20:34:47	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	44886	No
62	GOM_TRA_1PNPDE20100930_205925_000000462093_00243_44886_7688.N1	30-SEP-2010 20:59:25	Bright	46.000	24	66Alp Gem	1.5800	10200.	92	44886	No
63	GOM_TRA_1PNPDE20100930_210053_000000642093_00243_44886_7689.N1	30-SEP-2010 21:00:53	Bright	63.500	17	78Bet Gem	1.1610	4500.0	127	44886	No
64	GOM_TRA_1PNPDE20100930_211011_000000462093_00243_44886_7701.N1	30-SEP-2010 21:10:11	Dark	46.000	8	10Alp CMi	0.40000	6500.0	92	44886	No
65	GOM_TRA_1PNPDE20100930_211715_000000462093_00243_44886_7702.N1	30-SEP-2010 21:17:15	Dark	46.000	132	15Rho Pup	2.8030	6900.0	92	44886	No
66	GOM_TRA_1PNPDE20100930_212122_000000602093_00243_44886_7703.N1	30-SEP-2010 21:21:22	Dark	60.000	37	25Del CMa	1.8300	5900.0	120	44886	No
67	GOM_TRA_1PNPDE20100930_212736_000000552093_00244_44887_7704.N1	30-SEP-2010 21:27:36	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	44887	No
68	GOM_TRA_1PNPDE20100930_212947_000000582093_00244_44887_7705.N1	30-SEP-2010 21:29:47	Dark	58.000	108	Alp Col	2.6520	15200.	116	44887	No
69	GOM_TRA_1PNPDE20100930_214001_000000512093_00244_44887_7706.N1	30-SEP-2010 21:40:01	Straylight	51.000	157	The1Eri	2.9060	9300.0	102	44887	No
70	GOM_TRA_1PNPDE20100930_215046_000000482093_00244_44887_7707.N1	30-SEP-2010 21:50:46	Straylight	48.000	52	16Bet Cet	2.0370	4500.0	96	44887	No
71	GOM_TRA_1PNPDE20100930_220116_000000402093_00244_44887_7708.N1	30-SEP-2010 22:01:16	Bright	39.500	140	88Gam Peg	2.8340	26000.	79	44887	No
72	GOM_TRA_1PNPDE20100930_220526_000000452093_00244_44887_7709.N1	30-SEP-2010 22:05:26	Bright	44.500	58	21Alp And	2.0730	11000.	89	44887	No
73	GOM_TRA_1PNPDE20100930_220913_000000462093_00244_44887_7710.N1	30-SEP-2010 22:09:13	Bright	45.500	53	43Bet And	2.0480	3300.0	91	44887	No
74	GOM_TRA_1PNPDE20100930_221402_000000392093_00244_44887_7711.N1	30-SEP-2010 22:14:02	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44887	No
75	GOM_TRA_1PNPDE20100930_221523_000000422093_00244_44887_7712.N1	30-SEP-2010 22:15:23	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	44887	No
76	GOM_TRA_1PNPDE20100930_224001_000000462093_00244_44887_7713.N1	30-SEP-2010 22:40:01	Bright	46.000	24	66Alp Gem	1.5800	10200.	92	44887	No
77	GOM_TRA_1PNPDE20100930_224129_000000592093_00244_44887_7714.N1	30-SEP-2010 22:41:29	Bright	59.000	17	78Bet Gem	1.1610	4500.0	118	44887	No
78	GOM_TRA_1PNPDE20100930_225048_000000462093_00244_44887_7715.N1	30-SEP-2010 22:50:48	Dark	45.500	8	10Alp CMi	0.40000	6500.0	91	44887	No
79	GOM_TRA_1PNPDE20100930_225752_000000482093_00244_44887_7727.N1	30-SEP-2010 22:57:52	Dark	48.000	132	15Rho Pup	2.8030	6900.0	96	44887	No
80	GOM_TRA_1PNPDE20100930_230159_000000642093_00244_44887_7728.N1	30-SEP-2010 23:01:59	Dark	63.500	37	25Del CMa	1.8300	5900.0	127	44887	No
81	GOM_TRA_1PNPDE20100930_230813_000000562093_00245_44888_7729.N1	30-SEP-2010 23:08:13	Dark	55.500	2	Alp Car	-0.73600	7000.0	111	44888	No
82	GOM_TRA_1PNPDE20100930_231024_000000582093_00245_44888_7730.N1	30-SEP-2010 23:10:24	Dark	58.000	108	Alp Col	2.6520	15200.	116	44888	No
83	GOM_TRA_1PNPDE20100930_232037_000000502093_00245_44888_7731.N1	30-SEP-2010 23:20:37	Straylight	50.000	157	The1Eri	2.9060	9300.0	100	44888	No
84	GOM_TRA_1PNPDE20100930_233122_000000562093_00245_44888_7732.N1	30-SEP-2010 23:31:22	Straylight	56.000	52	16Bet Cet	2.0370	4500.0	112	44888	No
85	GOM_TRA_1PNPDE20100930_234151_000000412093_00245_44888_7733.N1	30-SEP-2010 23:41:51	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	44888	No
86	GOM_TRA_1PNPDE20100930_234601_000000402093_00245_44888_7734.N1	30-SEP-2010 23:46:01	Bright	40.000	58	21Alp And	2.0730	11000.	80	44888	No
87	GOM_TRA_1PNPDE20100930_234948_000000502093_00245_44888_7735.N1	30-SEP-2010 23:49:48	Bright	50.000	53	43Bet And	2.0480	3300.0	100	44888	No
88	GOM_TRA_1PNPDE20100930_235437_000000362093_00245_44888_7736.N1	30-SEP-2010 23:54:37	Bright	36.000	74	11Bet Cas	2.2680	6600.0	72	44888	No
89	GOM_TRA_1PNPDE20100930_235558_000000382093_00245_44888_7737.N1	30-SEP-2010 23:55:58	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	44888	No

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



4. Overview of dark signal processing per product

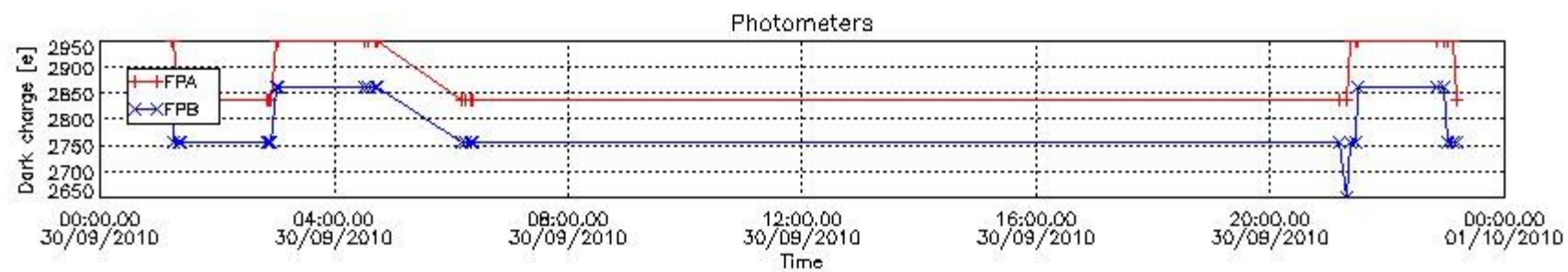
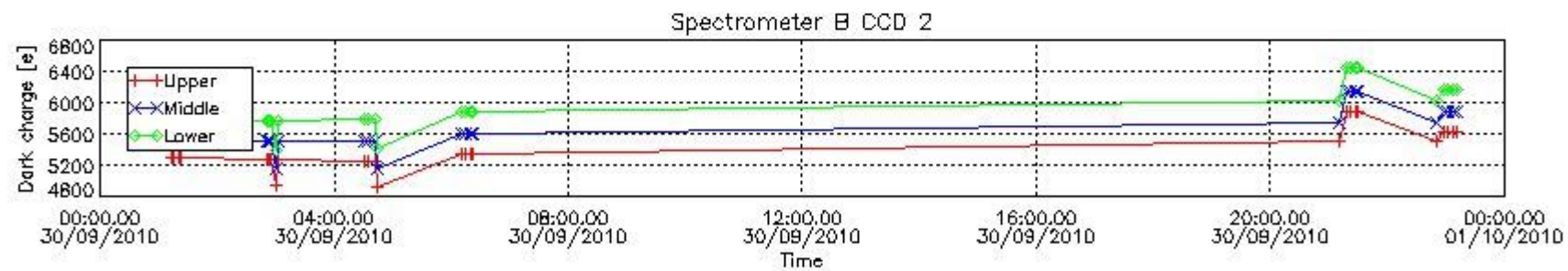
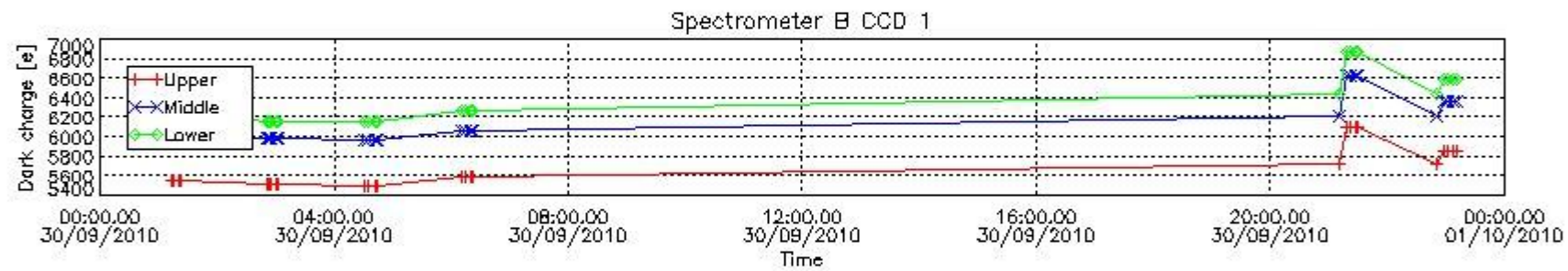
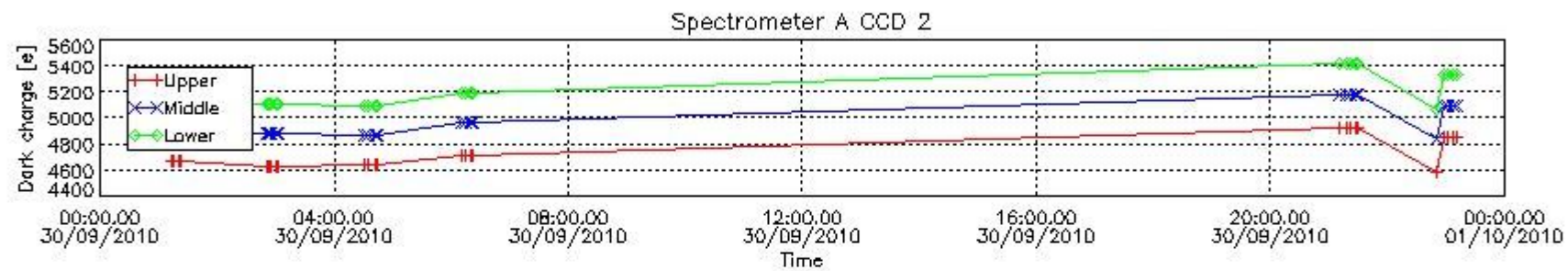
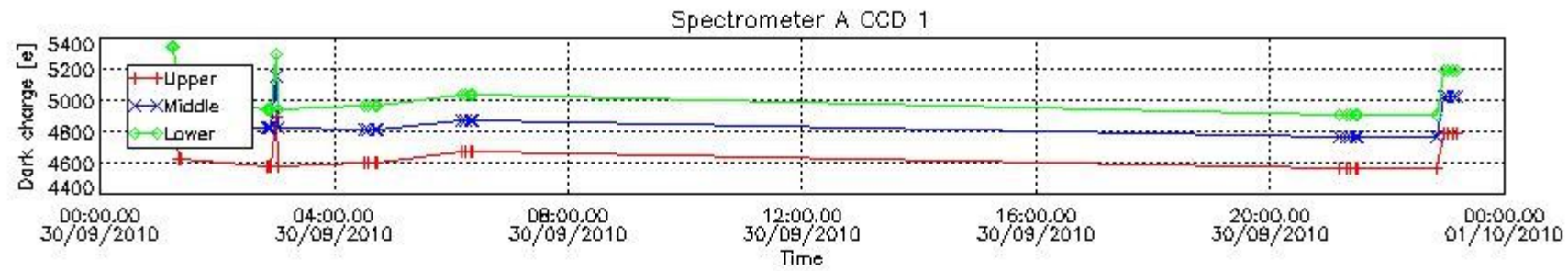
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100930_201010_000000502093_00243_44886_7682.N1	DC map used
GOM_TRA_1PNPDE20100930_202040_000000422093_00243_44886_7683.N1	DC map used
GOM_TRA_1PNPDE20100930_202450_000000392093_00243_44886_7684.N1	DC map used
GOM_TRA_1PNPDE20100930_202838_000000482093_00243_44886_7685.N1	DC map used
GOM_TRA_1PNPDE20100930_203326_000000392093_00243_44886_7686.N1	DC map used
GOM_TRA_1PNPDE20100930_203447_000000432093_00243_44886_7687.N1	DC map used
GOM_TRA_1PNPDE20100930_205925_000000462093_00243_44886_7688.N1	DC map used
GOM_TRA_1PNPDE20100930_210053_000000642093_00243_44886_7689.N1	DC map used

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



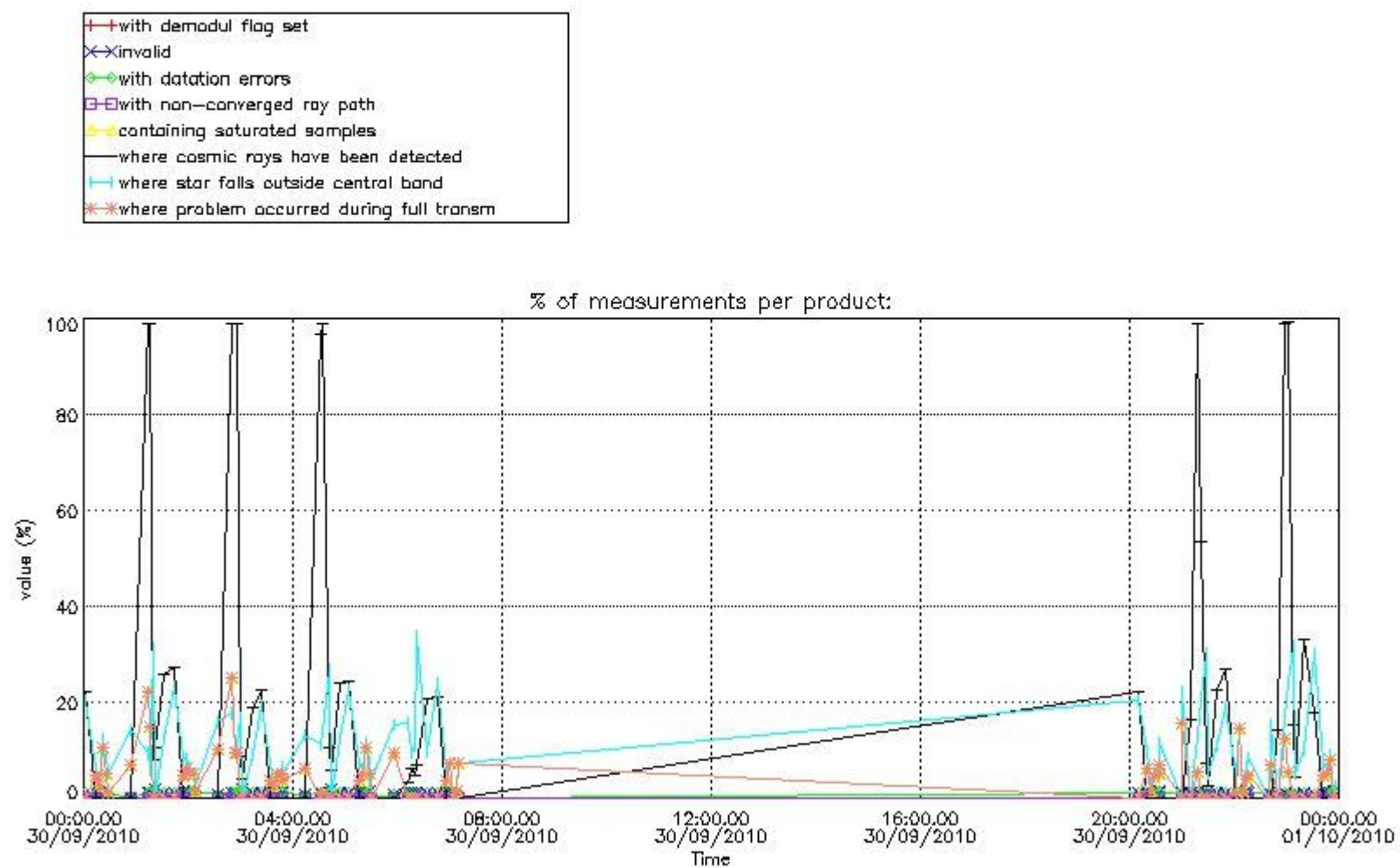
5. Demodulation flag and quality information monitoring

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.

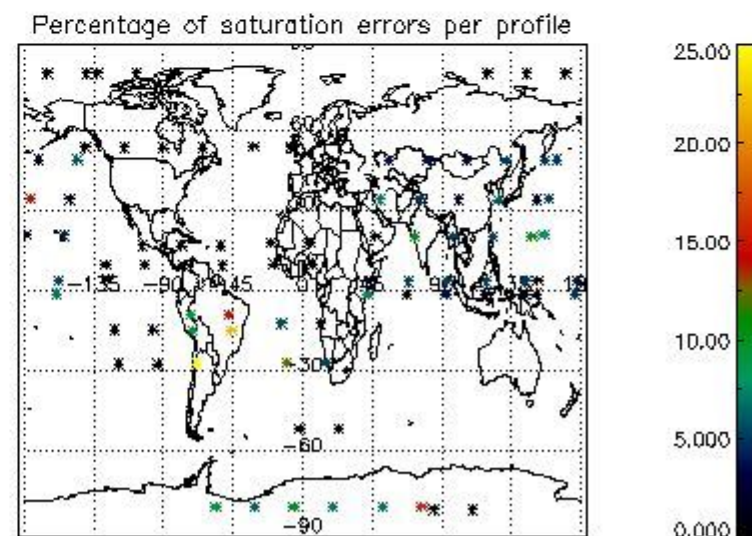
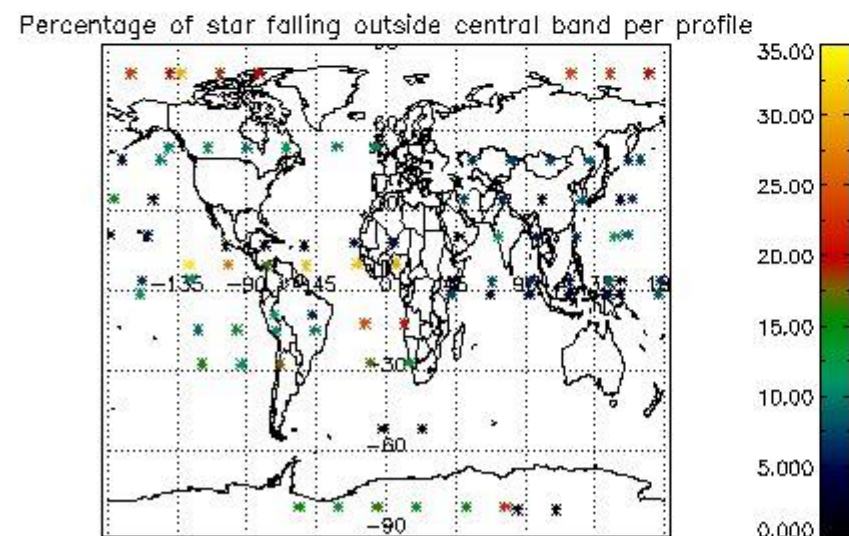
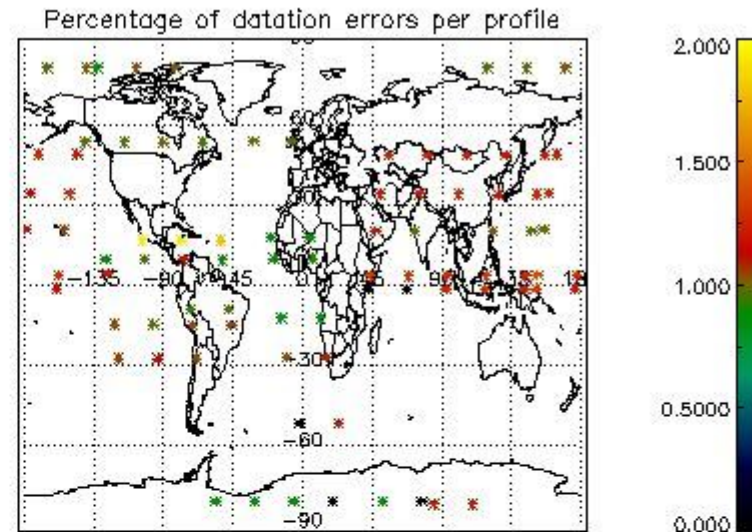
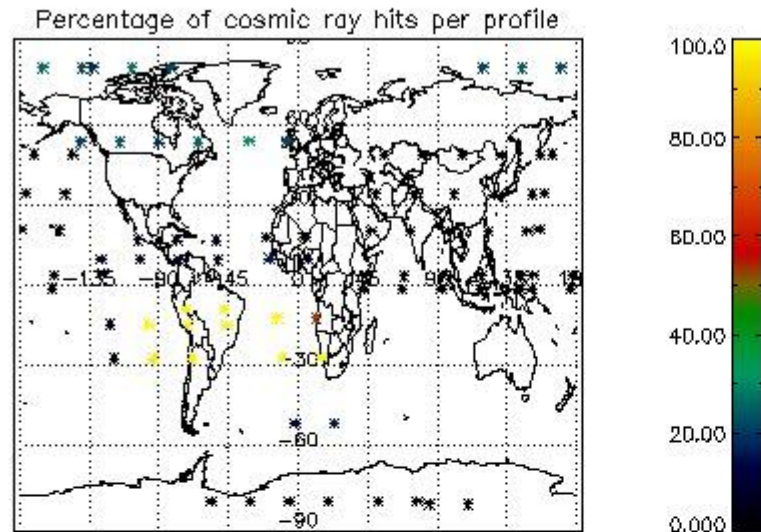
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	39.3258 %
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)



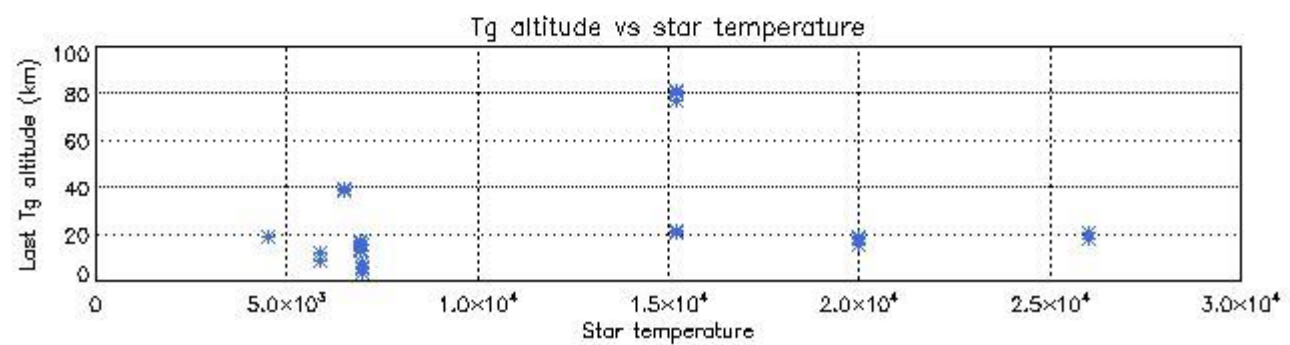
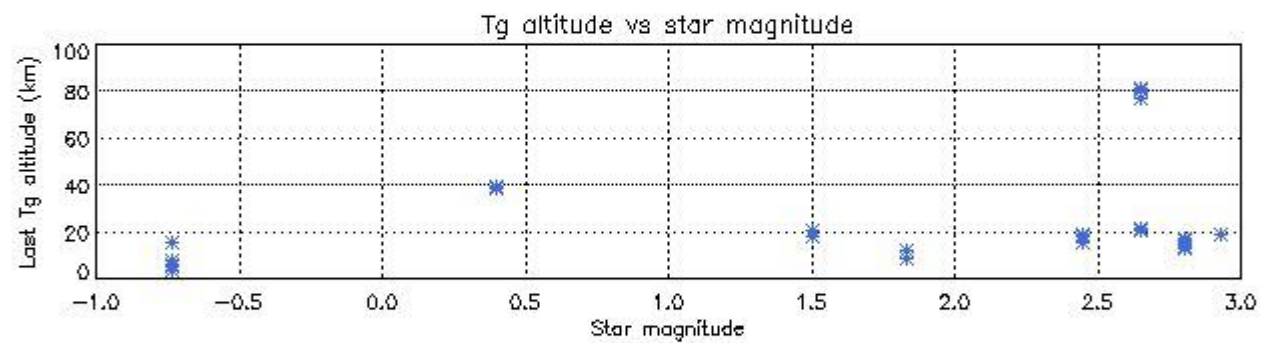
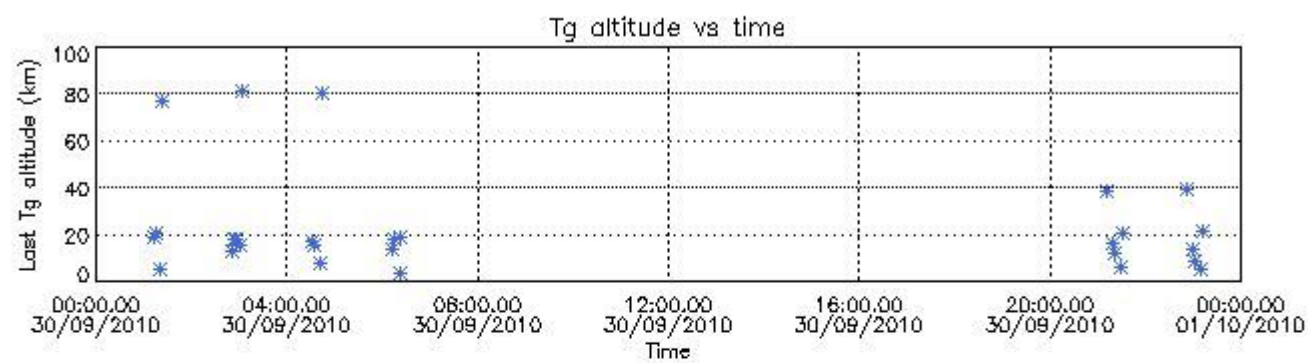
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	23.030	20.574	NaN
St. deviation:	22.016	4.4223	NaN
Maximum:	81.139	33.375	NaN
Minimum:	3.7924	10.595	NaN
Number of data:	27.000	48.000	NaN

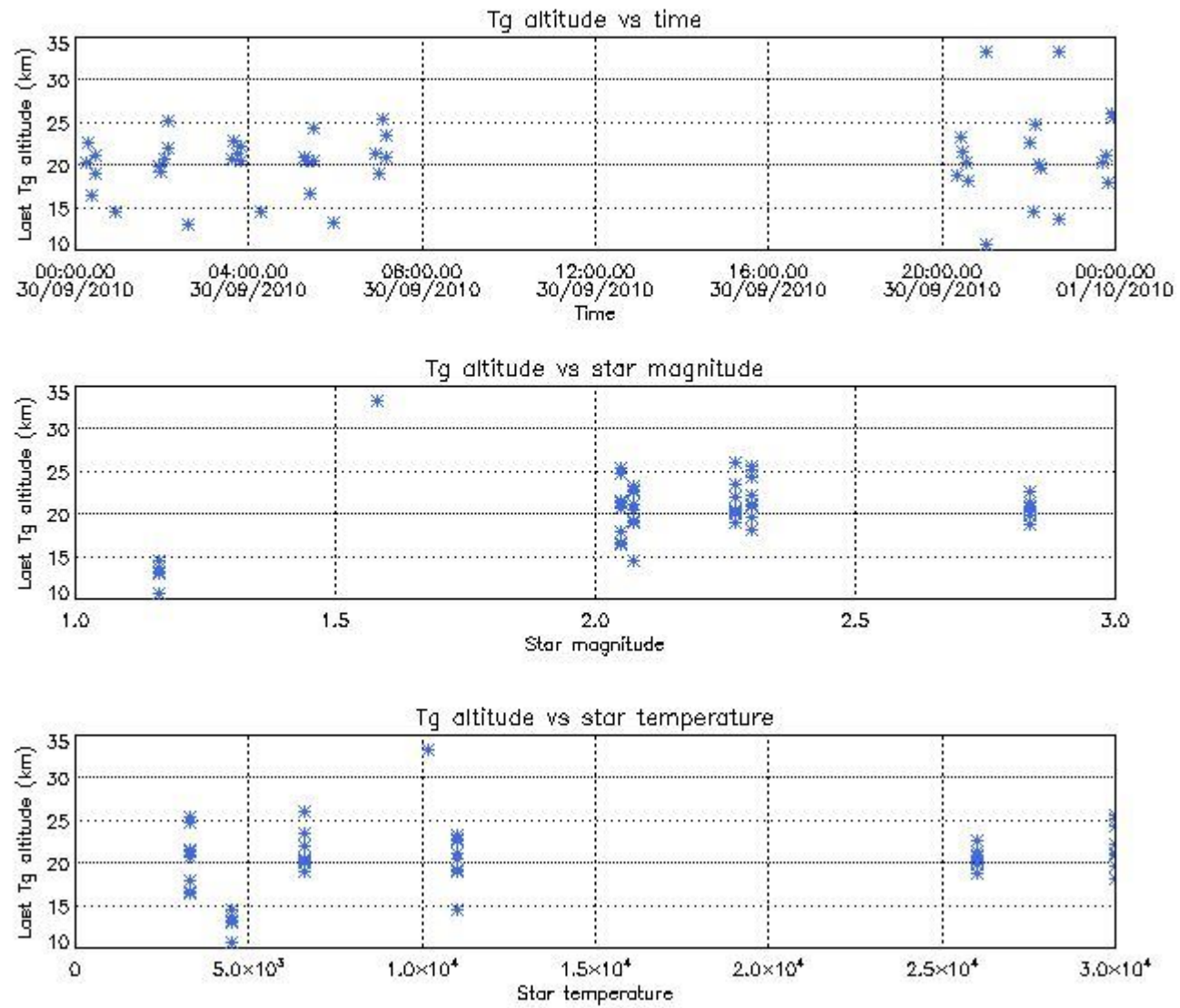
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

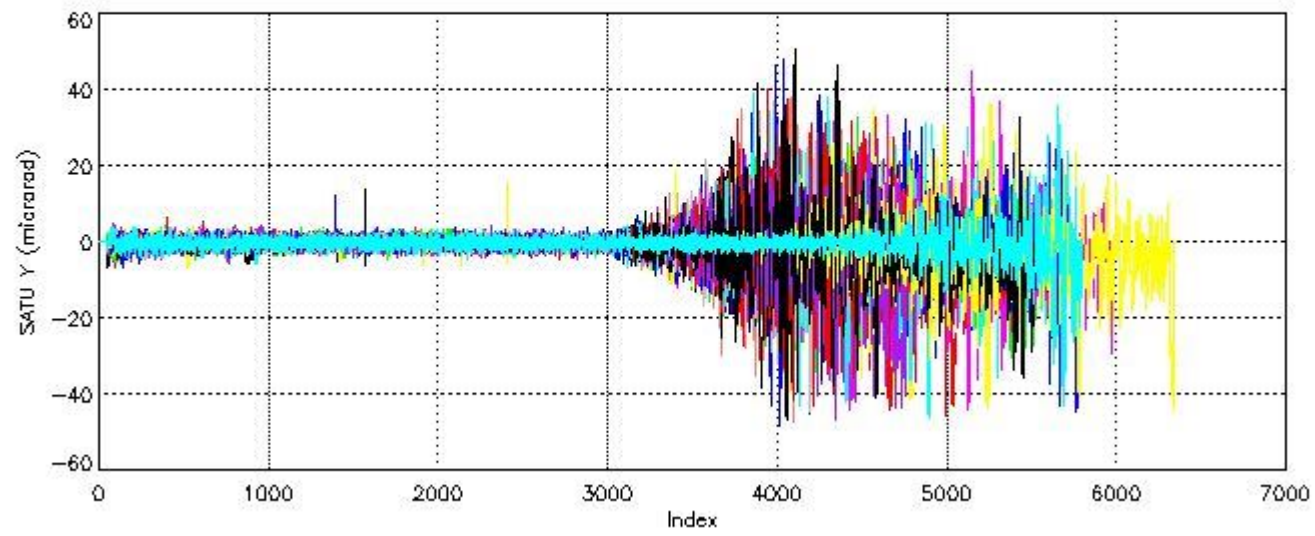
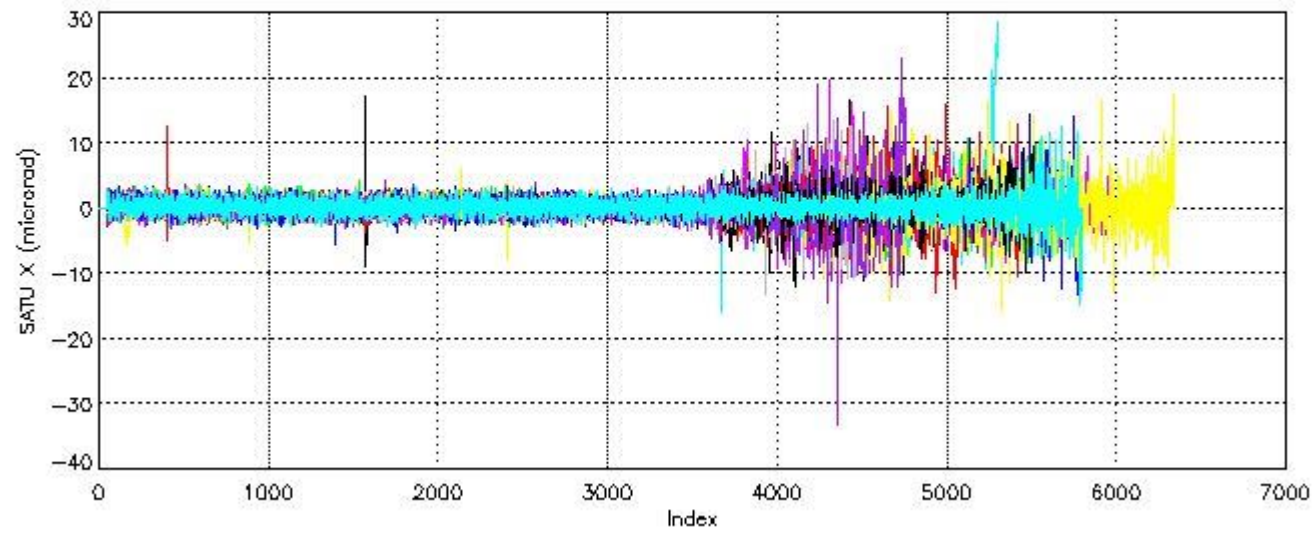


7. Star Acquisition and Tracking Unit (SATU)

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:	0.19841	-0.31876	0.21814	-0.35446
St. deviation:	0.57703	1.0245	0.73477	1.1581
Maximum:	12.600	6.2000	5.7000	7.0000
Minimum:	-5.5000	-6.9000	-6.7000	-10.000

Number of data:	30550.	30550.	50050.	50050.
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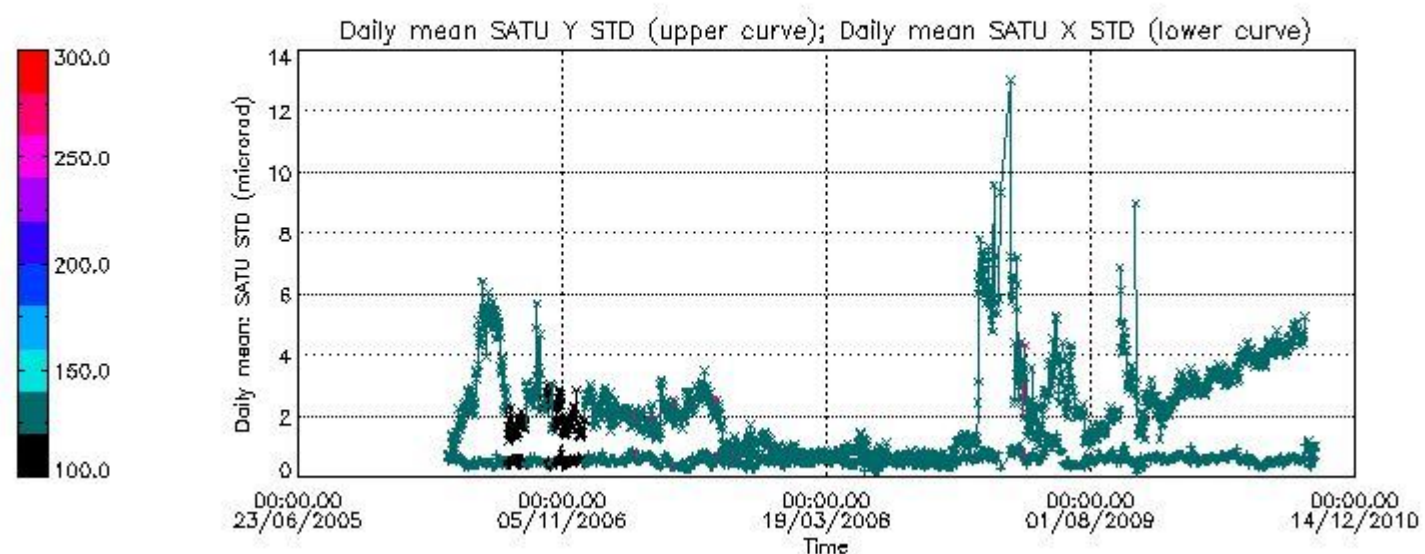
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

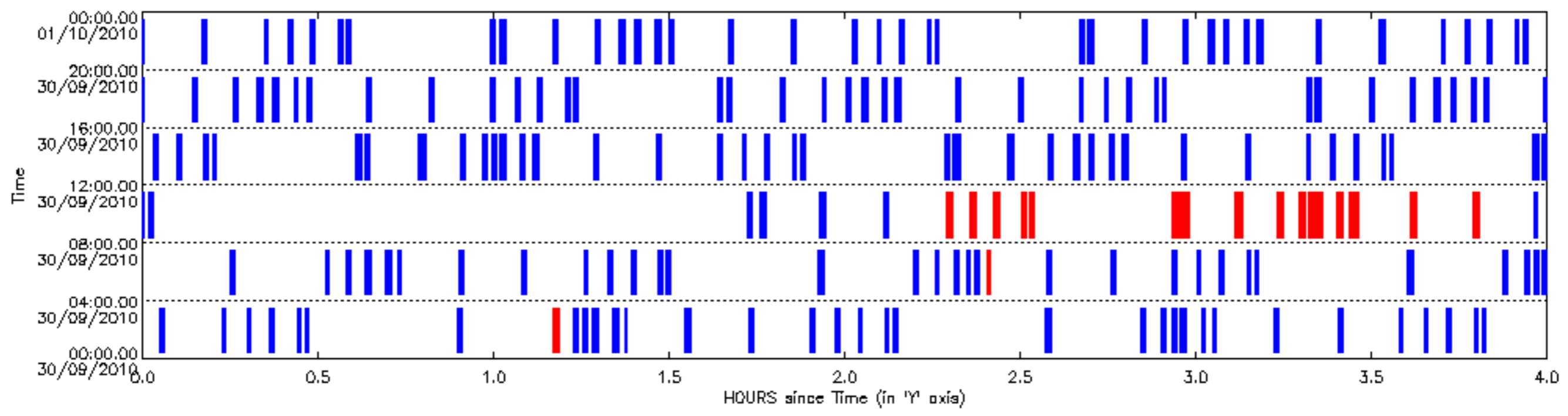
Lower curve: STD of SATU X axis

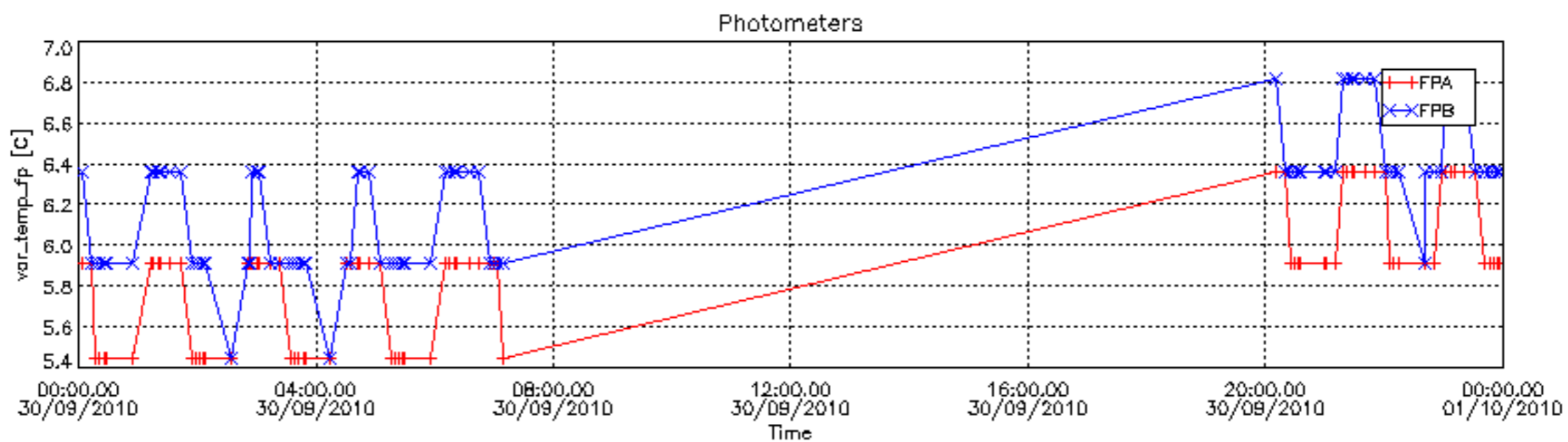
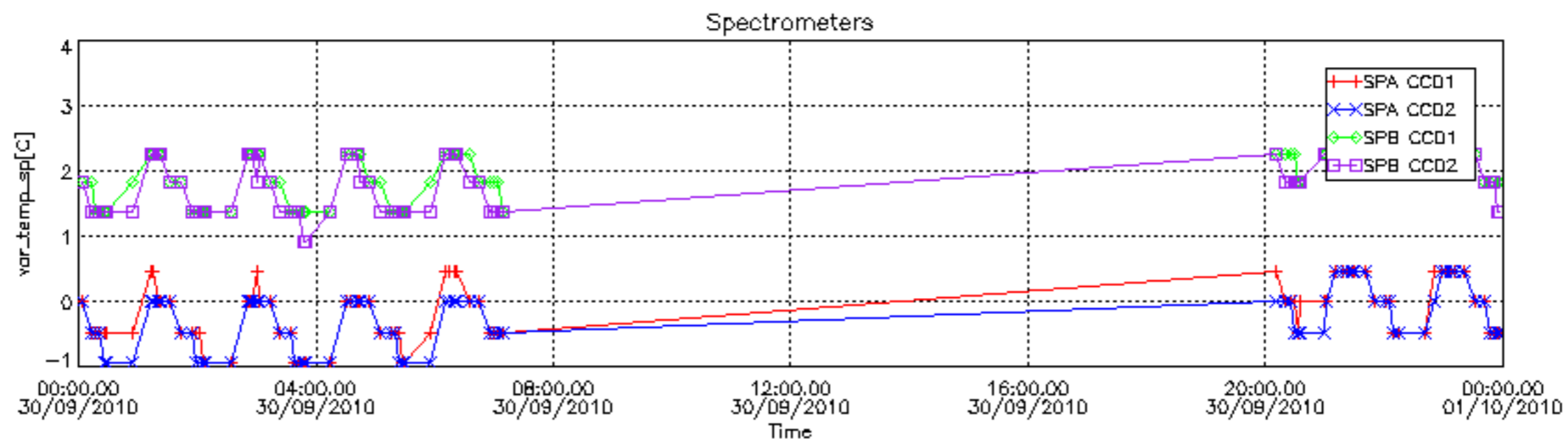


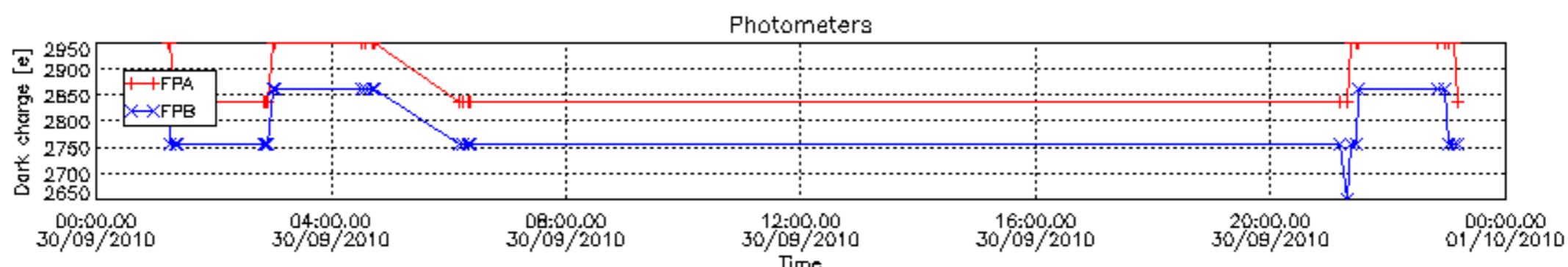
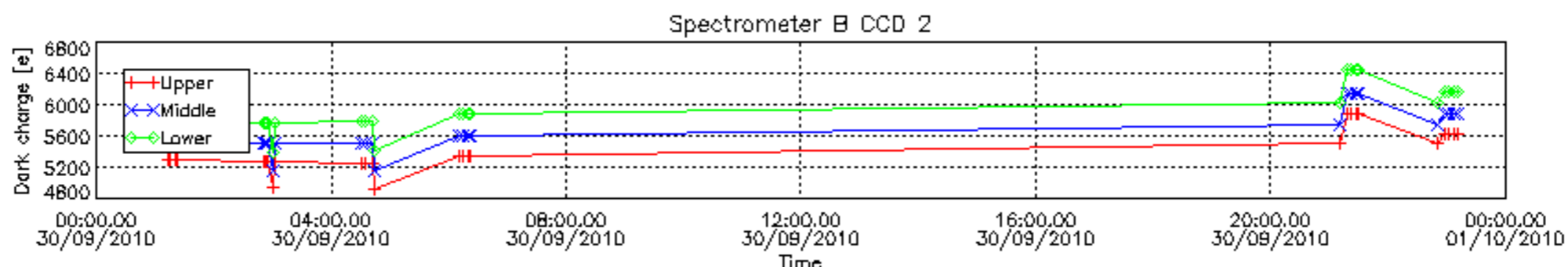
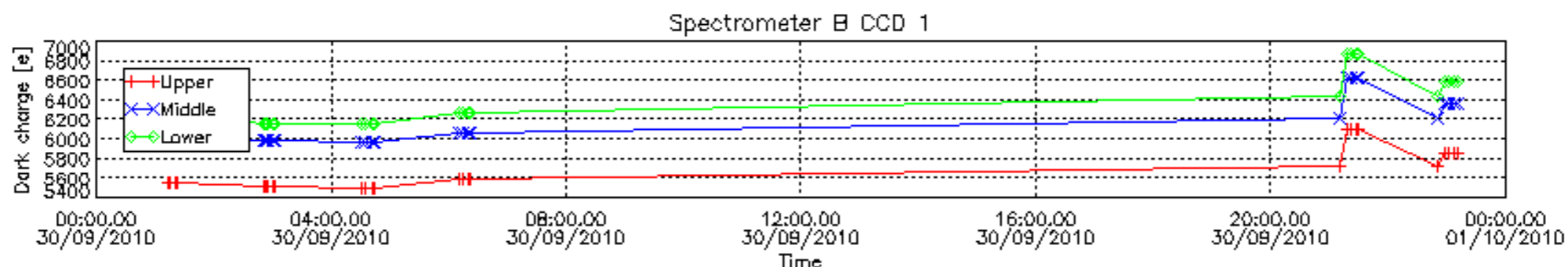
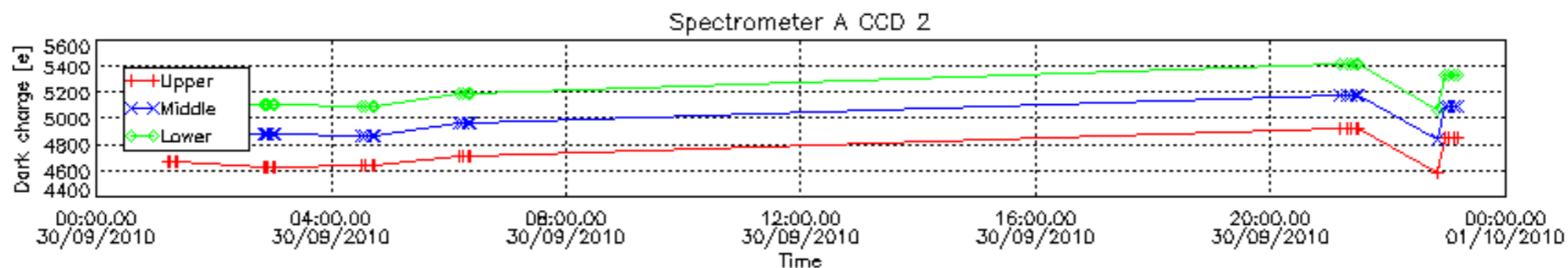
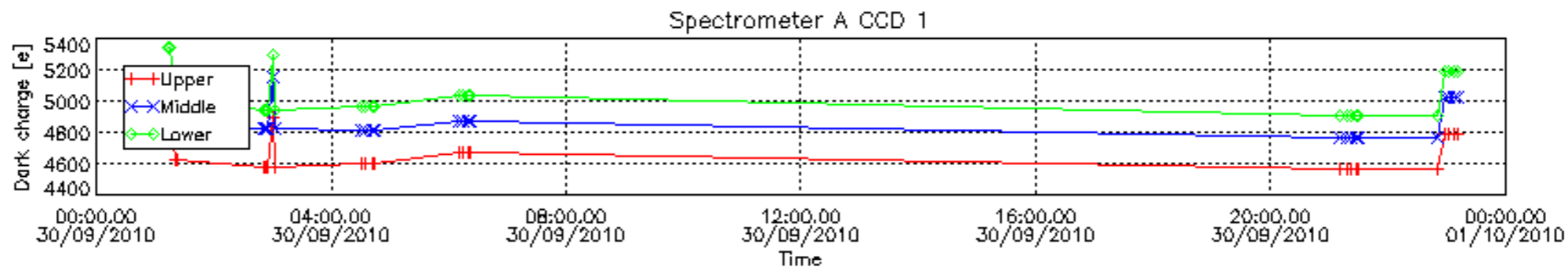
8. Auxiliary Data Files used for the production reported in section 2.4

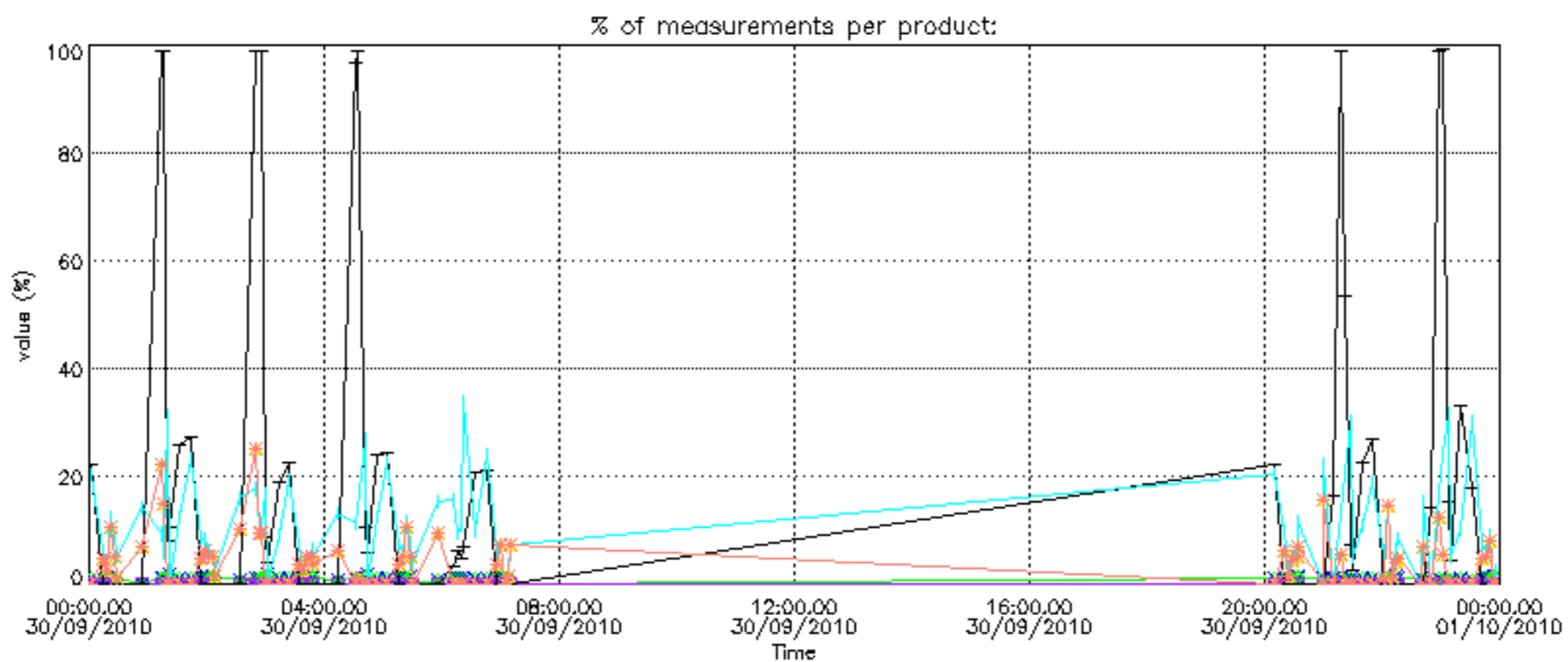
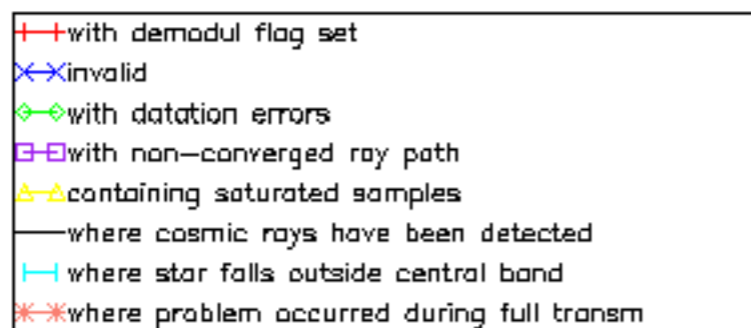
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	30-SEP-2010 00:02:57
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100923_133008_20100922_000000_20500101_000000	1	30-SEP-2010 00:02:57
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	30-SEP-2010 00:02:57
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	30-SEP-2010 00:02:57
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	30-SEP-2010 00:02:57
ECMWF_FILE	AUX_ECF_AXNECM20100929_055614_20100929_210000_20100930_090000	1	30-SEP-2010 00:02:57
ECMWF_FILE	AUX_ECF_AXNECM20100929_165614_20100930_030000_20100930_150000	30	30-SEP-2010 03:47:29
ECMWF_FILE	AUX_ECA_AXNECM20100930_052137_20100929_210000_20100930_090000	44	30-SEP-2010 05:55:27
ECMWF_FILE	AUX_ECF_AXNECM20100930_052140_20100930_150000_20101001_030000	56	30-SEP-2010 20:10:10
ECMWF_FILE	AUX_ECF_AXNECM20100930_052140_20100930_210000_20101001_090000	64	30-SEP-2010 21:10:11
OPTIONAL_ECMWF_FILE	MISSING	1	30-SEP-2010 00:02:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100929_231950_000057382093_00230_44873_1163.N1	1	30-SEP-2010 00:02:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100930_010047_000095642093_00231_44874_1164.N1	8	30-SEP-2010 01:13:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100930_034529_000063762093_00233_44876_1165.N1	30	30-SEP-2010 03:47:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100930_053704_000057382093_00234_44877_1166.N1	44	30-SEP-2010 05:55:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100930_195748_000038252093_00243_44886_1167.N1	56	30-SEP-2010 20:10:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100930_210652_000060572093_00243_44886_1168.N1	64	30-SEP-2010 21:10:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100930_225308_000057382093_00244_44887_1169.N1	79	30-SEP-2010 22:57:52

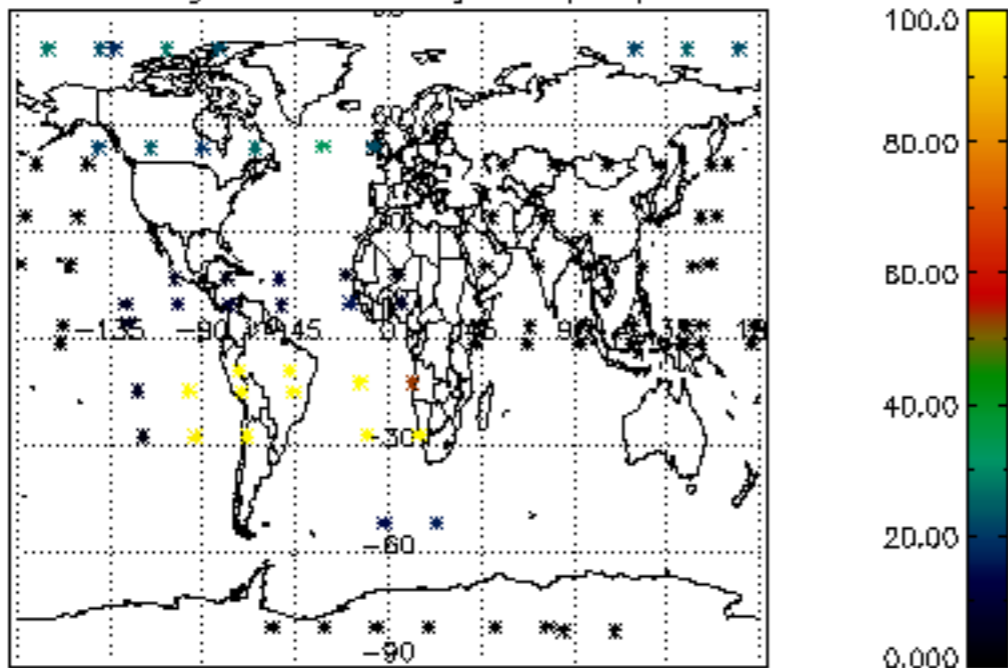




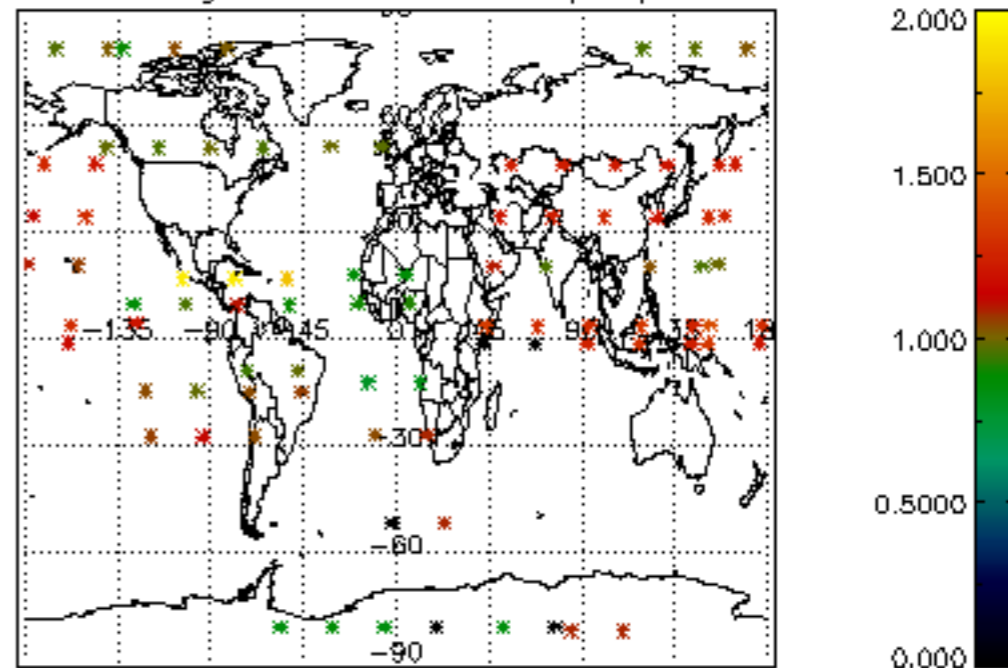




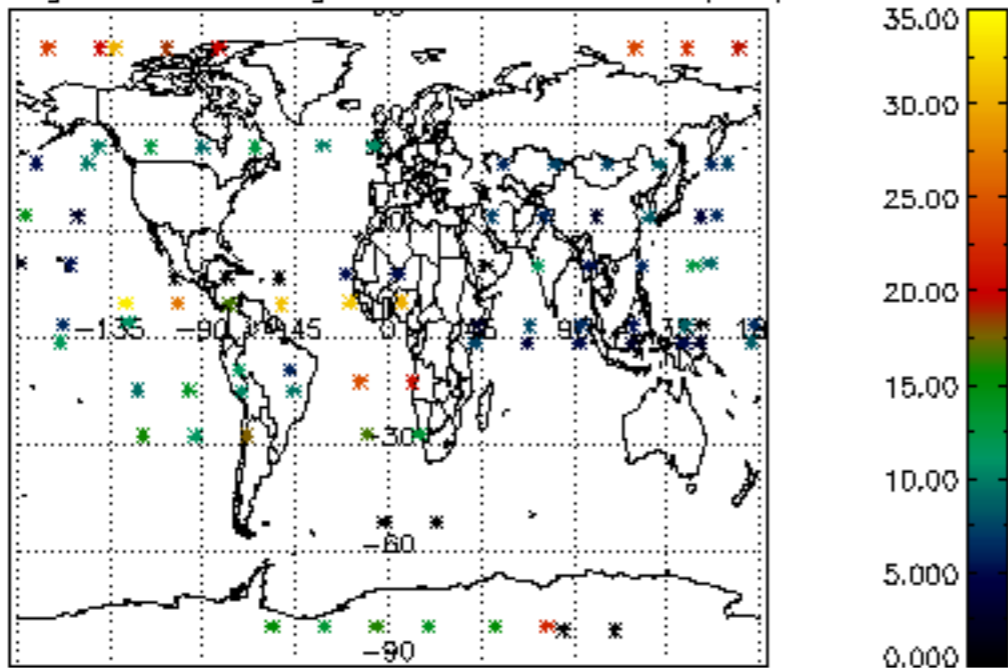
Percentage of cosmic ray hits per profile



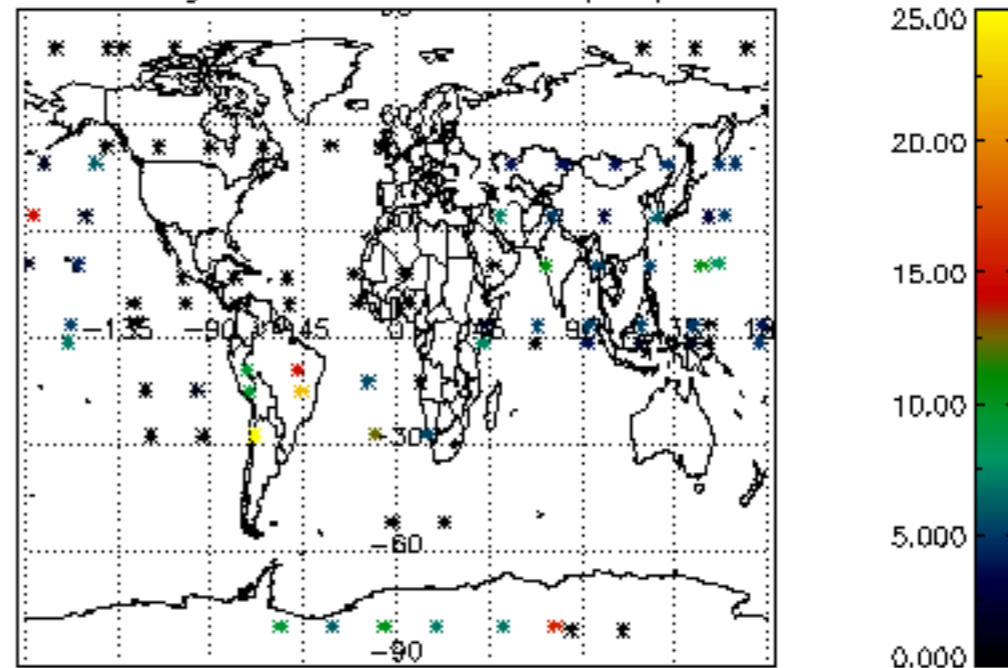
Percentage of datation errors per profile



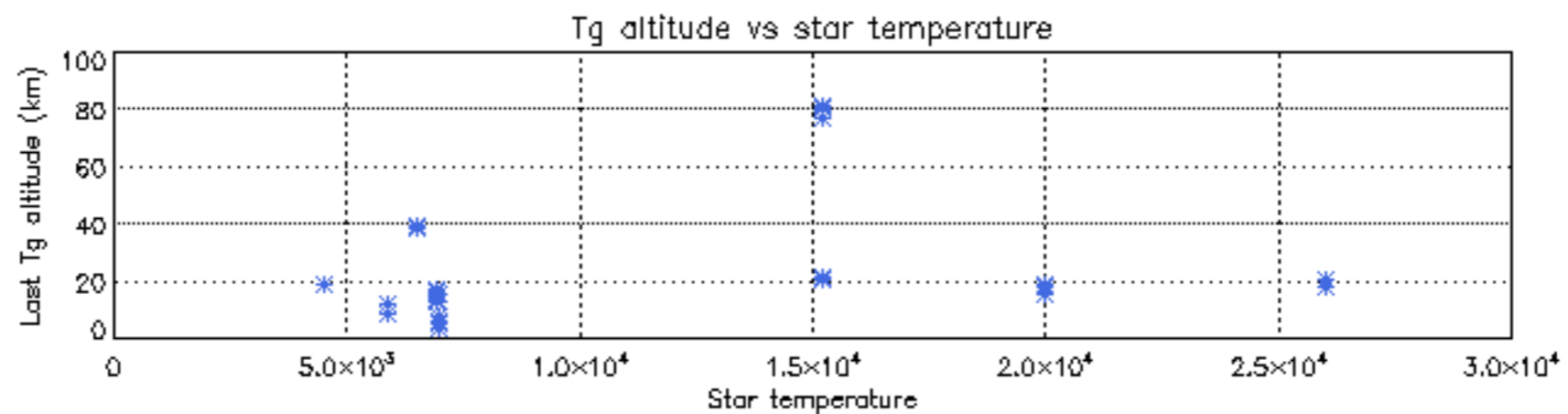
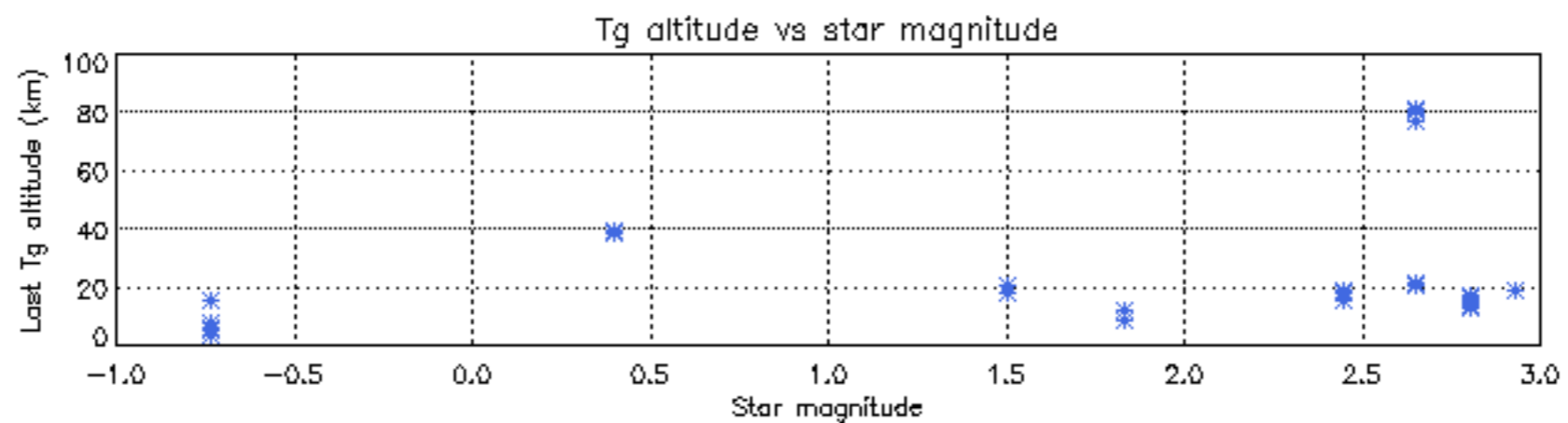
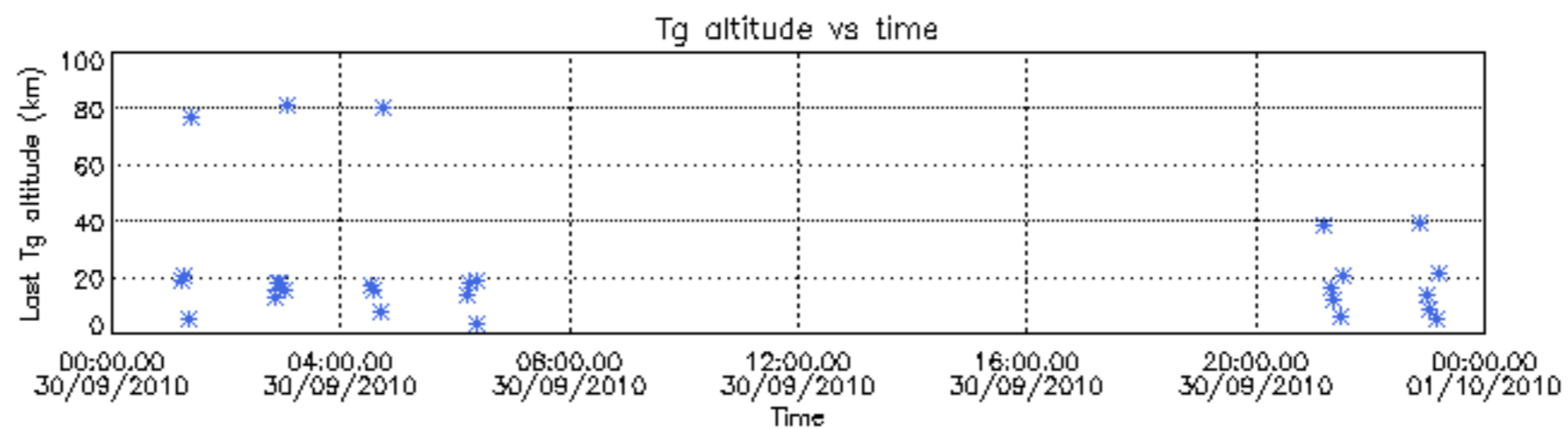
Percentage of star falling outside central band per profile



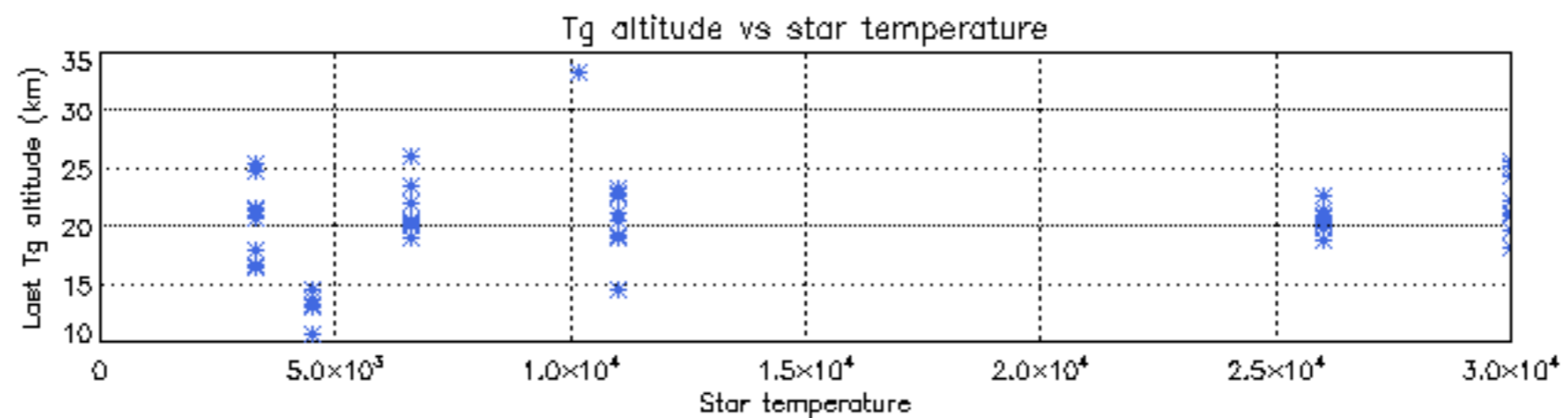
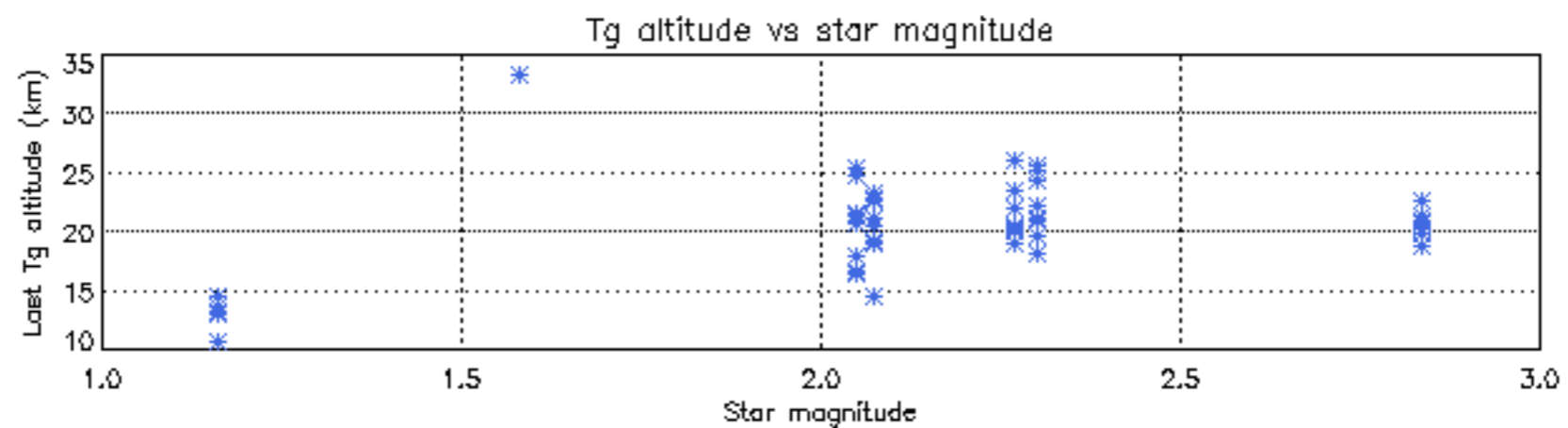
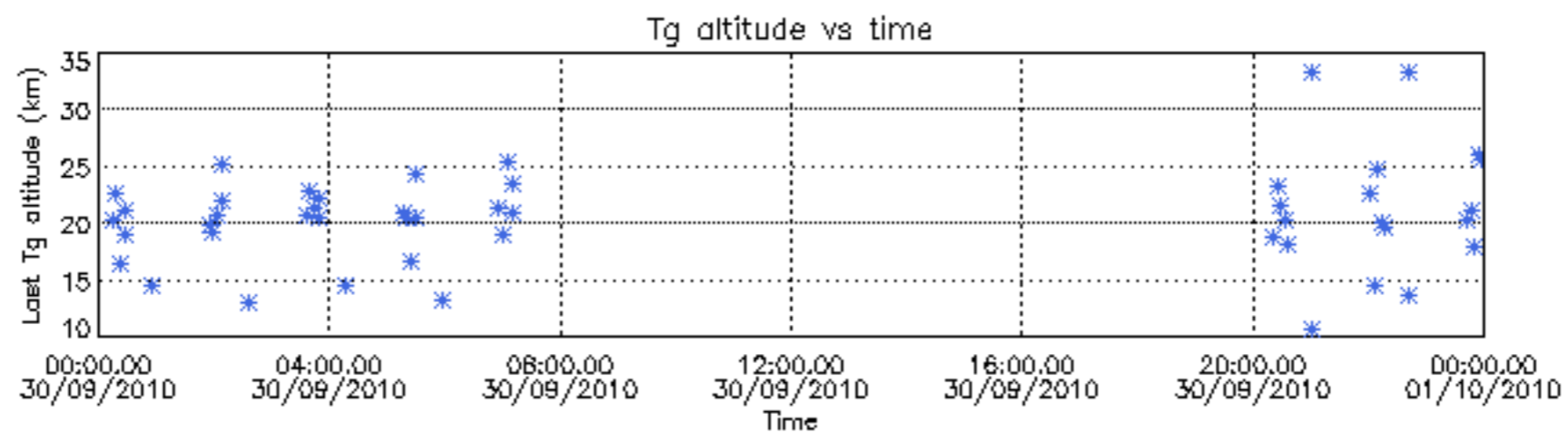
Percentage of saturation errors per profile

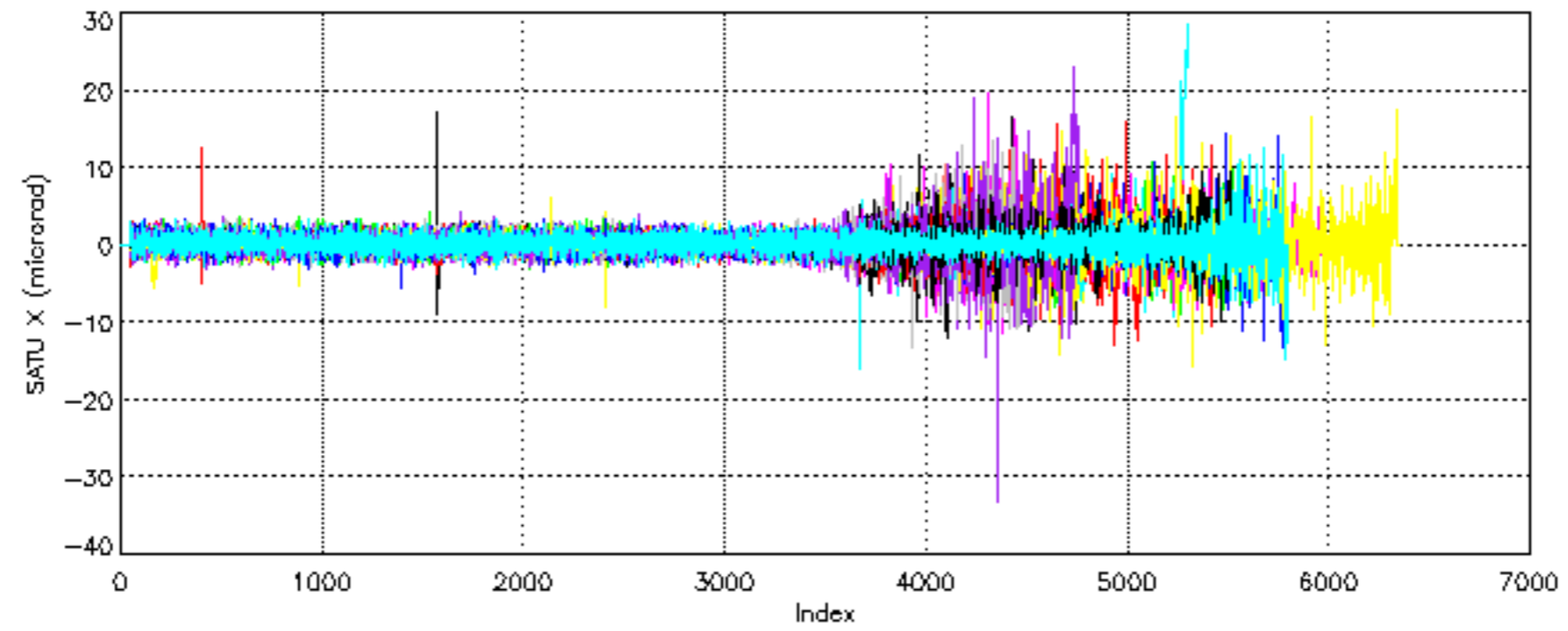


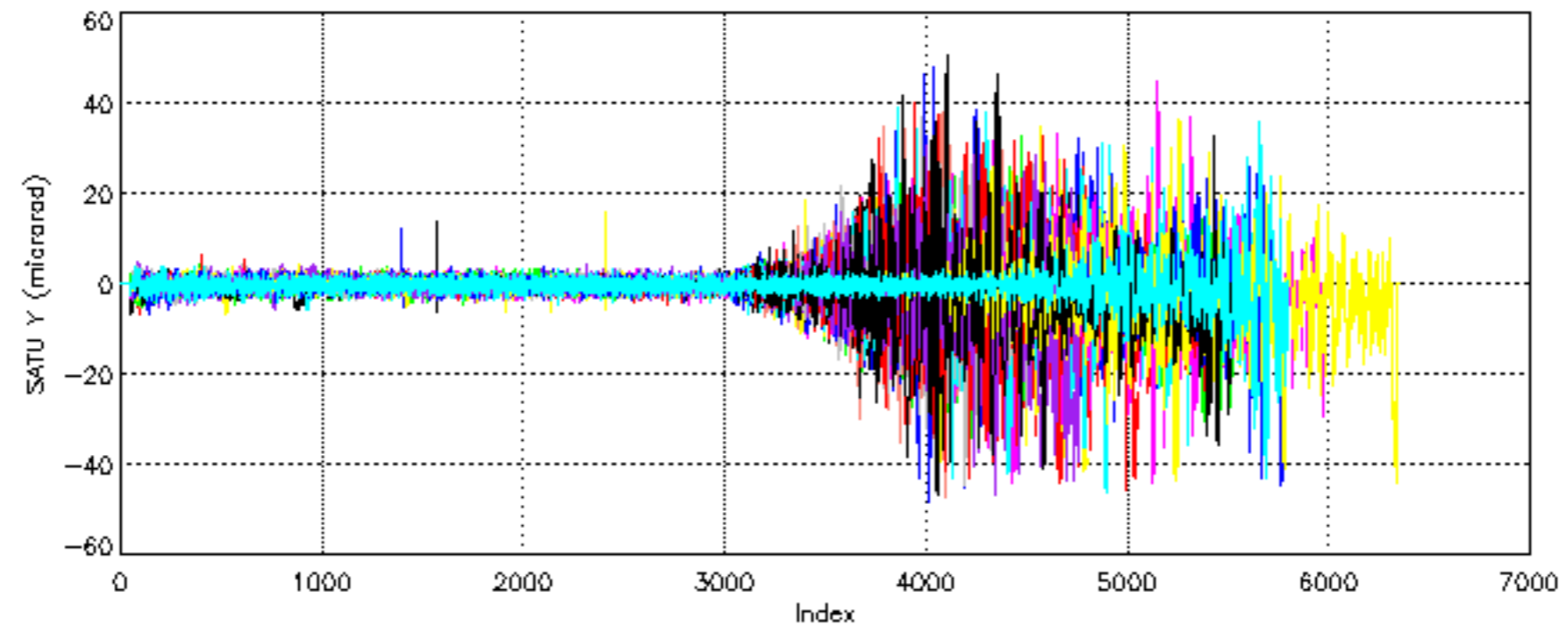
Tangent altitude at which the star is lost

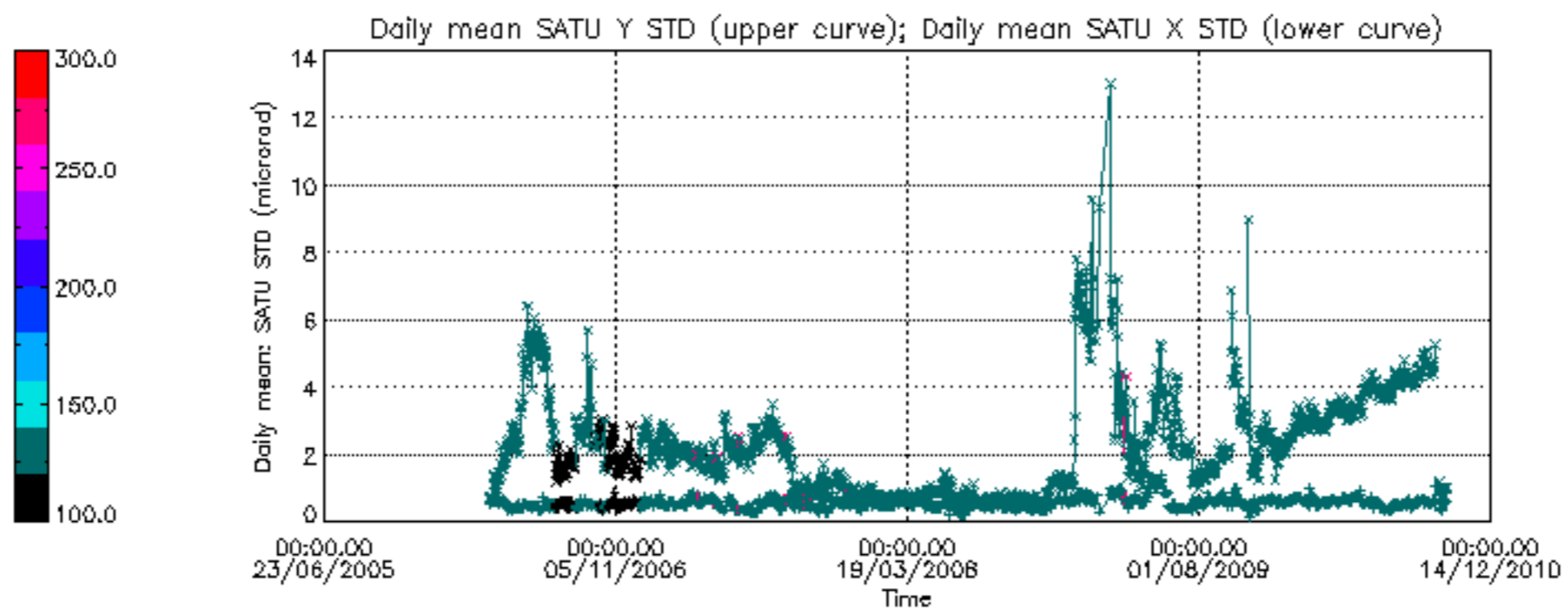


Tangent altitude at which the star is lost









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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100901_011807_000013212092_00317_44459_0811.N1
 1; -664.1; 01-SEP-2010 01:18:07; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;44459
 2; -498.0; 01-SEP-2010 01:20:53; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;44459
 3; -356.2; 01-SEP-2010 01:23:15; Dark ; 58.5; 139; 9Bet Lep ; 2.83; 5600;occ; 117; 0;44459
 4; -241.6; 01-SEP-2010 01:25:10; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44459
 5; 525.7; 01-SEP-2010 01:37:57; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;44460
 6; 602.5; 01-SEP-2010 01:39:14; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;44460
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100901_011807_000092462092_00317_44459_0808.N1
 1; -664.1; 01-SEP-2010 01:18:07; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;44459
 2; -498.0; 01-SEP-2010 01:20:53; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;44459
 3; -356.2; 01-SEP-2010 01:23:15; Dark ; 58.5; 139; 9Bet Lep ; 2.83; 5600;occ; 117; 0;44459
 4; -241.6; 01-SEP-2010 01:25:10; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44459
 5; 525.7; 01-SEP-2010 01:37:57; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;44460
 6; 602.5; 01-SEP-2010 01:39:14; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;44460
 7; 960.0; 01-SEP-2010 01:45:11; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;44460
 8; 1328.3; 01-SEP-2010 01:51:20; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;44460
 9; 1895.5; 01-SEP-2010 02:00:47; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;44460
10; 2075.4; 01-SEP-2010 02:03:47; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;44460
11; 2502.6; 01-SEP-2010 02:10:54; Bright; 46.0; 164; 44Eta Peg ; 2.95; 5400;occ; 92; 0;44460
12; 2975.7; 01-SEP-2010 02:18:47; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;44460
13; 3144.6; 01-SEP-2010 02:21:36; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;44460
14; 3273.1; 01-SEP-2010 02:23:44; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;44460
15; 4208.2; 01-SEP-2010 02:39:19; Bright; 47.5; 42; 34Bet Aur ; 1.90; 10200;occ; 95; 0;44460
16; 4451.8; 01-SEP-2010 02:43:23; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;44460
17; 4685.8; 01-SEP-2010 02:47:17; Dark ; 58.0; 151; 13Mu Gem ; 2.89; 3000;occ; 116; 0;44460
18; 4791.2; 01-SEP-2010 02:49:02; Dark ; 51.5; 44; 24Gam Gem ; 1.93; 11000;occ; 103; 0;44460
19; 4913.8; 01-SEP-2010 02:51:05; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;44460
20; 5372.6; 01-SEP-2010 02:58:44; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;44460
21; 5538.4; 01-SEP-2010 03:01:30; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;44460
22; 5680.7; 01-SEP-2010 03:03:52; Dark ; 52.0; 139; 9Bet Lep ; 2.83; 5600;occ; 104; 0;44460
23; 5795.5; 01-SEP-2010 03:05:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44460
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25; 6638.7; 01-SEP-2010 03:19:50; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;44461
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6; 4191.5; 08-SEP-2010 17:24:18; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;44569
7; 4467.0; 08-SEP-2010 17:28:54; Bright; 58.0; 24; 66Alp Gem ; 1.58; 10200;occ; 116; 0;44569
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9; 4840.5; 08-SEP-2010 17:35:07; Dark ; 56.5; 44; 24Gam Gem ; 1.93; 11000;occ; 113; 0;44569
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13; 5724.8; 08-SEP-2010 17:49:52; Dark ; 45.0; 177; 1Zet CMA ; 3.02; 26000;occ; 90; 0;44569
14; 5813.3; 08-SEP-2010 17:51:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44569
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16; 6702.8; 08-SEP-2010 18:06:10; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;44570
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3; 2458.6; 08-SEP-2010 18:36:02; Bright; 40.5; 164; 44Eta Peg ; 2.95; 5400;occ; 81; 0;44570
4; 3080.1; 08-SEP-2010 18:46:23; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;44570
5; 3199.1; 08-SEP-2010 18:48:22; Bright; 44.5; 76; 27Gam Cas ; 2.30; 30000;occ; 89; 0;44570
6; 4191.3; 08-SEP-2010 19:04:54; Bright; 51.0; 42; 34Bet Aur ; 1.90; 10200;occ; 102; 0;44570
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9; 4840.9; 08-SEP-2010 19:15:44; Dark ; 57.0; 44; 24Gam Gem ; 1.93; 11000;occ; 114; 0;44570
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13; 5725.9; 08-SEP-2010 19:30:29; Dark ; 45.0; 177; 1Zet CMA ; 3.02; 26000;occ; 90; 0;44570
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3; -219.5; 09-SEP-2010 00:33:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44573
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9; 3077.9; 09-SEP-2010 01:28:44; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44574
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4; 669.4; 09-SEP-2010 02:29:12; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;44575

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4; -1192.4; 09-SEP-2010 03:38:46; Dark ; 55.0; 44; 24Gam Gem ; 1.93; 11000;occ; 110; 0;44575
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13; 1358.4; 09-SEP-2010 06:01:53; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;44577
14; 2203.0; 09-SEP-2010 06:15:57; Bright; 43.0; 90; 54Alp Peg ; 2.49; 11000;occ; 86; 0;44577
15; 2456.9; 09-SEP-2010 06:20:11; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;44577
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8; -304.0; 09-SEP-2010 07:14:46; Dark ; 45.5; 177; 1Zet CMA ; 3.02; 26000;occ; 91; 0;44577
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12; 5732.9; 09-SEP-2010 08:55:23; Dark ; 46.5; 177; 1Zet CMA ; 3.02; 26000;occ; 93; 0;44578
13; 5820.5; 09-SEP-2010 08:56:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44578
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3; 3015.7; 09-SEP-2010 11:31:18; Bright; 72.5; 53; 43Bet And ; 2.05; 3300;occ; 145; 0;44580
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7; 3719.8; 09-SEP-2010 11:43:02; Bright; 68.5; 35; 33Alp Per ; 1.79; 6250;occ; 137; 0;44580
8; 3834.2; 09-SEP-2010 11:44:56; Bright; 68.0; 175; 39Del Per ; 3.01; 19400;occ; 136; 0;44580
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2; 2608.2; 10-SEP-2010 00:49:18; Bright; 52.5; 58; 21Alp And ; 2.07; 11000;occ; 105; 0;44588
3; 4114.8; 10-SEP-2010 01:14:24; Bright; 68.5; 6; 13Alp Aur ; 0.08; 3400;occ; 137; 0;44588
4; 4377.7; 10-SEP-2010 01:18:47; Bright; 56.5; 107; 37The Aur ; 2.65; 11000;occ; 113; 0;44588
5; 4850.3; 10-SEP-2010 01:26:40; Dark ; 57.5; 44; 24Gam Gem ; 1.93; 11000;occ; 115; 0;44588
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2; -235.0; 10-SEP-2010 03:23:06; Dark ; 64.0; 101; 11Alp Lep ; 2.58; 7000;occ; 128; 0;44589
3; -74.4; 10-SEP-2010 03:25:47; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44589
4; 635.2; 10-SEP-2010 03:37:36; Dark ; 22.5; 157; The1Eri ; 2.91; 9300;occ; 45; 0;44590
5; 1514.3; 10-SEP-2010 03:52:16; Dark ; 68.0; 52; 16Bet Cet ; 2.04; 4500;occ; 136; 0;44590
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3; 4377.5; 10-SEP-2010 09:41:47; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;44593
4; 5967.2; 10-SEP-2010 10:08:16; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44593
5; 6675.5; 10-SEP-2010 10:20:05; Dark ; 57.0; 157; The1Eri ; 2.91; 9300;occ; 114; 0;44594
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2; 3579.3; 10-SEP-2010 11:09:04; Bright; 60.0; 160; 23Gam Per ; 2.93; 4700;occ; 120; 0;44594
3; 3704.6; 10-SEP-2010 11:11:10; Bright; 66.0; 35; 33Alp Per ; 1.79; 6250;occ; 132; 0;44594
4; 4112.3; 10-SEP-2010 11:17:57; Bright; 17.5; 6; 13Alp Aur ; 0.08; 3400;occ; 35; 0;44594
5; 4377.7; 10-SEP-2010 11:22:23; Bright; 14.5; 107; 37The Aur ; 2.65; 11000;occ; 29; 0;44594
6; 4854.0; 10-SEP-2010 11:30:19; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;44594
7; 5968.6; 10-SEP-2010 11:48:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44594
8; 6677.0; 10-SEP-2010 12:00:42; Dark ; 57.5; 157; The1Eri ; 2.91; 9300;occ; 115; 0;44595
9; 7550.4; 10-SEP-2010 12:15:15; Dark ; 71.0; 52; 16Bet Cet ; 2.04; 4500;occ; 142; 0;44595
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3; 4111.9; 10-SEP-2010 12:58:33; Bright; 65.0; 6; 13Alp Aur ; 0.08; 3400;occ; 130; 0;44595
4; 4377.4; 10-SEP-2010 13:02:58; Bright; 59.0; 107; 37The Aur ; 2.65; 11000;occ; 118; 0;44595
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3; 3536.5; 13-SEP-2010 09:33:30; Bright; 59.5; 160; 23Gam Per ; 2.93; 4700;occ; 119; 0;44636
4; 4376.0; 13-SEP-2010 09:47:30; Bright; 57.0; 107; 37The Aur ; 2.65; 11000;occ; 114; 0;44636
5; 4879.3; 13-SEP-2010 09:55:53; Dark ; 61.5; 44; 24Gam Gem ; 1.93; 11000;occ; 123; 0;44636
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3; 4375.8; 13-SEP-2010 11:28:05; Bright; 54.0; 107; 37The Aur ; 2.65; 11000;occ; 108; 0;44637
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2; 1528.7; 16-SEP-2010 20:49:59; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;44686
3; 2177.8; 16-SEP-2010 21:00:48; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;44686
4; 2409.2; 16-SEP-2010 21:04:39; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;44686
5; 2530.2; 16-SEP-2010 21:06:40; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44686
6; 3023.0; 16-SEP-2010 21:14:53; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44686
7; 3129.8; 16-SEP-2010 21:16:40; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;44686
8; 4482.9; 16-SEP-2010 21:39:13; Bright; 44.5; 24; 66Alp Gem ; 1.58; 10200;occ; 89; 0;44686
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3; -345.0; 16-SEP-2010 21:59:21; Dark ; 49.0; 23; 21Eps CMa ; 1.50; 26000;occ; 98; 0;44686
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5; 28.8; 16-SEP-2010 22:05:34; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;44687
6; 643.1; 16-SEP-2010 22:15:49; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;44687
7; 728.9; 16-SEP-2010 22:17:15; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;44687
8; 1071.7; 16-SEP-2010 22:22:57; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;44687
9; 1528.8; 16-SEP-2010 22:30:34; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;44687
10; 2177.6; 16-SEP-2010 22:41:23; Bright; 40.5; 90; 54Alp Peg ; 2.49; 11000;occ; 81; 0;44687

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13; 3022.5; 16-SEP-2010 22:55:28; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44687
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15; 4482.9; 16-SEP-2010 23:19:49; Bright; 44.5; 24; 66Alp Gem ; 1.58; 10200;occ; 89; 0;44687
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 3; 1069.1; 16-SEP-2010 10:38:43; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;44680
 4; 1527.9; 16-SEP-2010 10:46:22; Dark ; 24.5; 52; 16Bet Cet ; 2.04; 4500;occ; 49; 0;44680
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 3; 3025.8; 16-SEP-2010 11:11:20; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;44680
 4; 3133.0; 16-SEP-2010 11:13:07; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;44680
 5; 4482.1; 16-SEP-2010 11:35:36; Bright; 44.5; 24; 66Alp Gem ; 1.58; 10200;occ; 89; 0;44680
 6; 5004.8; 16-SEP-2010 11:44:19; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;44680
 7; 5450.5; 16-SEP-2010 11:51:45; Dark ; 39.0; 132; 15Rho Pup ; 2.80; 6900;occ; 78; 0;44680
 8; 5553.8; 16-SEP-2010 11:53:28; Dark ; 64.5; 1; 9Alp CMa ; -1.44; 11000;occ; 129; 0;44680
 9; 5669.5; 16-SEP-2010 11:55:24; Dark ; 30.0; 47; 2Bet CMa ; 1.98; 28000;occ; 60; 0;44680
10; 5747.7; 16-SEP-2010 11:56:42; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;44680
11; 5909.2; 16-SEP-2010 11:59:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44680
12; 6061.2; 16-SEP-2010 12:01:55; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;44681
13; 6676.0; 16-SEP-2010 12:12:10; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;44681
14; 6761.9; 16-SEP-2010 12:13:36; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;44681
15; 7105.4; 16-SEP-2010 12:19:20; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;44681
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 3; 3025.3; 16-SEP-2010 12:51:55; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;44681
 4; 3132.7; 16-SEP-2010 12:53:43; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;44681
 5; 4482.3; 16-SEP-2010 13:16:12; Bright; 43.5; 24; 66Alp Gem ; 1.58; 10200;occ; 87; 0;44681
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 7; 5451.2; 16-SEP-2010 13:32:21; Dark ; 41.0; 132; 15Rho Pup ; 2.80; 6900;occ; 82; 0;44681
 8; 5555.0; 16-SEP-2010 13:34:05; Dark ; 70.0; 1; 9Alp CMa ; -1.44; 11000;occ; 140; 0;44681
 9; 5670.8; 16-SEP-2010 13:36:01; Dark ; 30.0; 47; 2Bet CMa ; 1.98; 28000;occ; 60; 0;44681
10; 5748.5; 16-SEP-2010 13:37:19; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;44681
11; 5910.1; 16-SEP-2010 13:40:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44681
12; 6061.8; 16-SEP-2010 13:42:32; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;44682
13; 6676.8; 16-SEP-2010 13:52:47; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;44682
14; 6762.4; 16-SEP-2010 13:54:12; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;44682
15; 7105.9; 16-SEP-2010 13:59:56; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;44682
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 3; 2410.4; 16-SEP-2010 14:22:16; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;44682
 4; 2533.0; 16-SEP-2010 14:24:19; Bright; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;44682
 5; 3024.9; 16-SEP-2010 14:32:31; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;44682
 6; 3132.1; 16-SEP-2010 14:34:18; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44682
 7; 4482.5; 16-SEP-2010 14:56:48; Bright; 41.5; 24; 66Alp Gem ; 1.58; 10200;occ; 83; 0;44682
 8; 5006.1; 16-SEP-2010 15:05:32; Dark ; 57.0; 8; 10Alp CMi ; 0.40; 6500;occ; 114; 0;44682
 9; 5451.7; 16-SEP-2010 15:12:58; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;44682
10; 5556.3; 16-SEP-2010 15:14:42; Dark ; 71.0; 1; 9Alp CMa ; -1.44; 11000;occ; 142; 0;44682
11; 5687.7; 16-SEP-2010 15:16:54; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0;44682
12; 5911.1; 16-SEP-2010 15:20:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44682
13; 6062.4; 16-SEP-2010 15:23:08; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;44683
14; 6677.2; 16-SEP-2010 15:33:23; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;44683
15; 6762.9; 16-SEP-2010 15:34:49; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;44683
16; 7106.1; 16-SEP-2010 15:40:32; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;44683
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 3; 2410.1; 16-SEP-2010 16:02:52; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;44683
 4; 2532.4; 16-SEP-2010 16:04:54; Bright; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;44683
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5; 3088.1; 22-SEP-2010 09:43:15; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44765
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4; 2475.7; 23-SEP-2010 15:43:49; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44783
5; 2984.7; 23-SEP-2010 15:52:18; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;44783
6; 3079.6; 23-SEP-2010 15:53:53; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44783
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7; 842.9; 24-SEP-2010 21:27:23; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;44801
8; 1544.9; 24-SEP-2010 21:39:05; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;44801
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 7; 16.1; 24-SEP-2010 07:48:49; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;44793
 8; 159.9; 24-SEP-2010 07:51:13; Dark ; 54.5; 108; Alp Col ; 2.65; 15200;occ; 109; 0;44793
 9; 836.4; 24-SEP-2010 08:02:29; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;44793
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 3; 2471.0; 24-SEP-2010 08:29:44; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44793
 4; 2981.1; 24-SEP-2010 08:38:14; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44793
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 6; 4497.9; 24-SEP-2010 09:03:31; Bright; 49.5; 24; 66Alp Gem ; 1.58; 10200;occ; 99; 0;44793
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 5; 3073.6; 24-SEP-2010 12:00:58; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44795
 6; 4498.1; 24-SEP-2010 12:24:43; Bright; 50.5; 24; 66Alp Gem ; 1.58; 10200;occ; 101; 0;44795

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13; 6199.9; 24-SEP-2010 12:53:05; Dark ; 56.5; 108; Alp Col ; 2.65; 15200;occ; 113; 0;44796
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7; 5080.4; 24-SEP-2010 17:36:13; Dark ; 64.5; 8; 10Alp CMI ; 0.40; 6500;occ; 129; 0;44798
8; 5517.9; 24-SEP-2010 17:43:30; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;44798
9; 5712.6; 24-SEP-2010 17:46:45; Dark ; 44.0; 88; 31Eta CMA ; 2.45; 20000;occ; 88; 0;44798
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5; 3071.7; 24-SEP-2010 18:43:20; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44799
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8; 1545.0; 25-SEP-2010 01:00:17; Dark ; 53.0; 52; 16Bet Cet ; 2.04; 4500;occ; 106; 0;44803
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7; 890.8; 29-SEP-2010 00:23:30; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44860
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 9; 149.7; 29-SEP-2010 06:53:33; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;44864

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8; 2189.7; 29-SEP-2010 22:32:56; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44873
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5; 299.1; 30-SEP-2010 23:10:24; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44888
6; 912.0; 30-SEP-2010 23:20:37; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44888
7; 1556.5; 30-SEP-2010 23:31:22; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;44888
8; 2185.9; 30-SEP-2010 23:41:51; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44888
9; 2436.0; 30-SEP-2010 23:46:01; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44888
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11; 2952.1; 30-SEP-2010 23:54:37; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;44888
12; 3033.2; 30-SEP-2010 23:55:58; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;44888
13; 4511.8; 01-OCT-2010 00:20:37; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;44888
14; 4600.1; 01-OCT-2010 00:22:05; Bright; 77.0; 17; 78Bet Gem ; 1.16; 4500;occ; 154; 0;44888
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4; -131.7; 30-SEP-2010 07:57:50; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;44878
5; -51.5; 30-SEP-2010 07:59:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44878
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2; 287.2; 30-SEP-2010 09:45:25; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44880
3; 906.2; 30-SEP-2010 09:55:44; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44880
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5; 3036.1; 30-SEP-2010 12:11:50; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44881
6; 4510.9; 30-SEP-2010 12:36:24; Bright; 57.5; 24; 66Alp Gem ; 1.58; 10200;occ; 115; 0;44881
7; 4598.3; 30-SEP-2010 12:37:52; Bright; 59.0; 17; 78Bet Gem ; 1.16; 4500;occ; 118; 0;44881
8; 5152.8; 30-SEP-2010 12:47:06; Dark ; 68.5; 8; 10Alp CMi ; 0.40; 6500;occ; 137; 0;44881
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3; 2437.9; 30-SEP-2010 13:42:27; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44882
4; 2667.4; 30-SEP-2010 13:46:17; Bright; 50.0; 53; 43Bet And ; 2.05; 3300;occ; 100; 0;44882
5; 2953.9; 30-SEP-2010 13:51:03; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44882
6; 3035.6; 30-SEP-2010 13:52:25; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44882
7; 4511.0; 30-SEP-2010 14:17:00; Bright; 55.5; 24; 66Alp Gem ; 1.58; 10200;occ; 111; 0;44882
8; 4598.6; 30-SEP-2010 14:18:28; Bright; 69.5; 17; 78Bet Gem ; 1.16; 4500;occ; 139; 0;44882
9; 5153.8; 30-SEP-2010 14:27:43; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0;44882
10; 5578.9; 30-SEP-2010 14:34:48; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44882
11; 5823.8; 30-SEP-2010 14:38:53; Dark ; 67.0; 37; 25Del CMA ; 1.83; 5900;occ; 134; 0;44882
12; 5987.4; 30-SEP-2010 14:41:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44882
13; 6199.8; 30-SEP-2010 14:45:09; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;44883
14; 6327.7; 30-SEP-2010 14:47:17; Dark ; 59.5; 108; Alp Col ; 2.65; 15200;occ; 119; 0;44883
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3; 2437.8; 30-SEP-2010 15:23:03; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44883
4; 2666.8; 30-SEP-2010 15:26:52; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44883
5; 2953.6; 30-SEP-2010 15:31:39; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44883
6; 3035.4; 30-SEP-2010 15:33:01; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44883
7; 4511.2; 30-SEP-2010 15:57:37; Bright; 58.0; 24; 66Alp Gem ; 1.58; 10200;occ; 116; 0;44883
8; 4598.8; 30-SEP-2010 15:59:04; Bright; 65.5; 17; 78Bet Gem ; 1.16; 4500;occ; 131; 0;44883
9; 5154.9; 30-SEP-2010 16:08:20; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0;44883
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11; 5825.2; 30-SEP-2010 16:19:31; Dark ; 66.0; 37; 25Del CMA ; 1.83; 5900;occ; 132; 0;44883
12; 5988.2; 30-SEP-2010 16:22:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44883
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14; 6329.2; 30-SEP-2010 16:27:55; Dark ; 60.0; 108; Alp Col ; 2.65; 15200;occ; 120; 0;44884
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3; 2437.4; 30-SEP-2010 17:03:39; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;44884
4; 2666.0; 30-SEP-2010 17:07:27; Bright; 51.5; 53; 43Bet And ; 2.05; 3300;occ; 103; 0;44884
5; 2953.3; 30-SEP-2010 17:12:15; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44884
6; 3034.9; 30-SEP-2010 17:13:36; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;44884
7; 4511.5; 30-SEP-2010 17:38:13; Bright; 53.0; 24; 66Alp Gem ; 1.58; 10200;occ; 106; 0;44884
8; 4599.2; 30-SEP-2010 17:39:41; Bright; 57.5; 17; 78Bet Gem ; 1.16; 4500;occ; 115; 0;44884
9; 5156.1; 30-SEP-2010 17:48:57; Dark ; 54.0; 8; 10Alp CMi ; 0.40; 6500;occ; 108; 0;44884
10; 5580.5; 30-SEP-2010 17:56:02; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44884
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13; 6201.4; 30-SEP-2010 18:06:23; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;44885
14; 6330.7; 30-SEP-2010 18:08:32; Dark ; 55.5; 108; Alp Col ; 2.65; 15200;occ; 111; 0;44885
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4; 2665.2; 30-SEP-2010 18:48:03; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;44885
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