

GOMOS Daily Report 05-FEB-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	07FEB2010 04:33:26
Data source version	GOMOS/5.00L04
Start time of products	05FEB2010 00:05:36
Stop time of products	05FEB2010 23:59:29
Store outputs in DB	Yes
Nb of level 1b prods	79
Nb of prods with errors	0

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

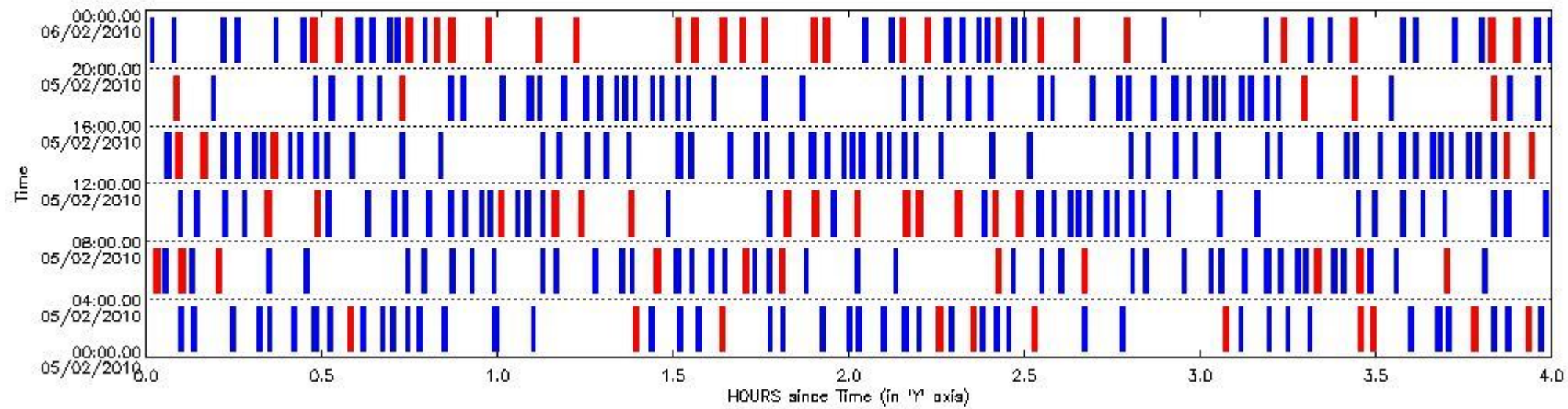
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

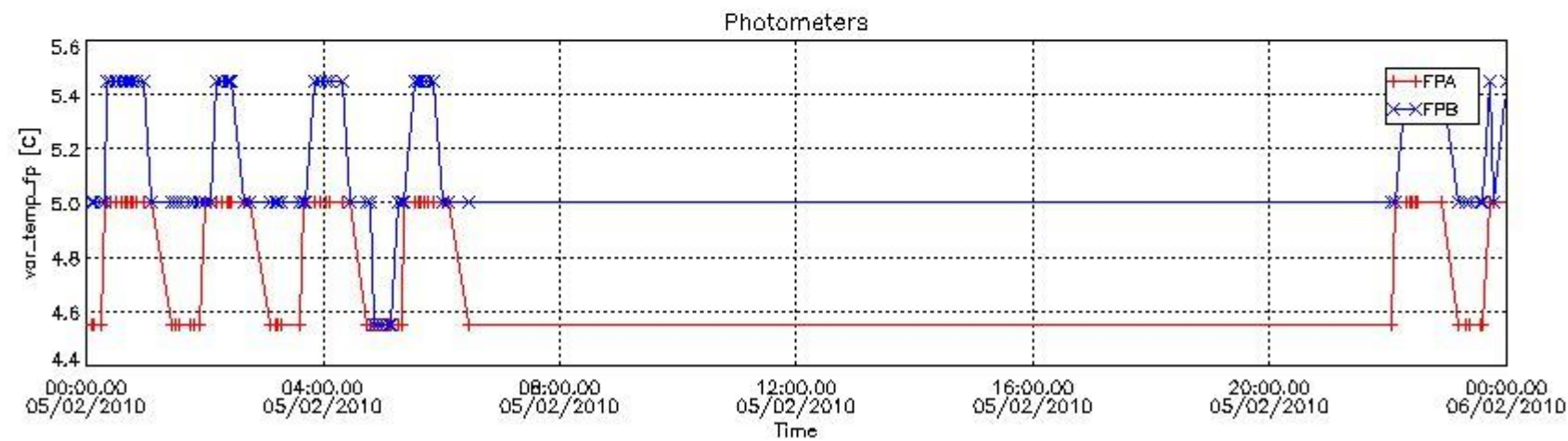
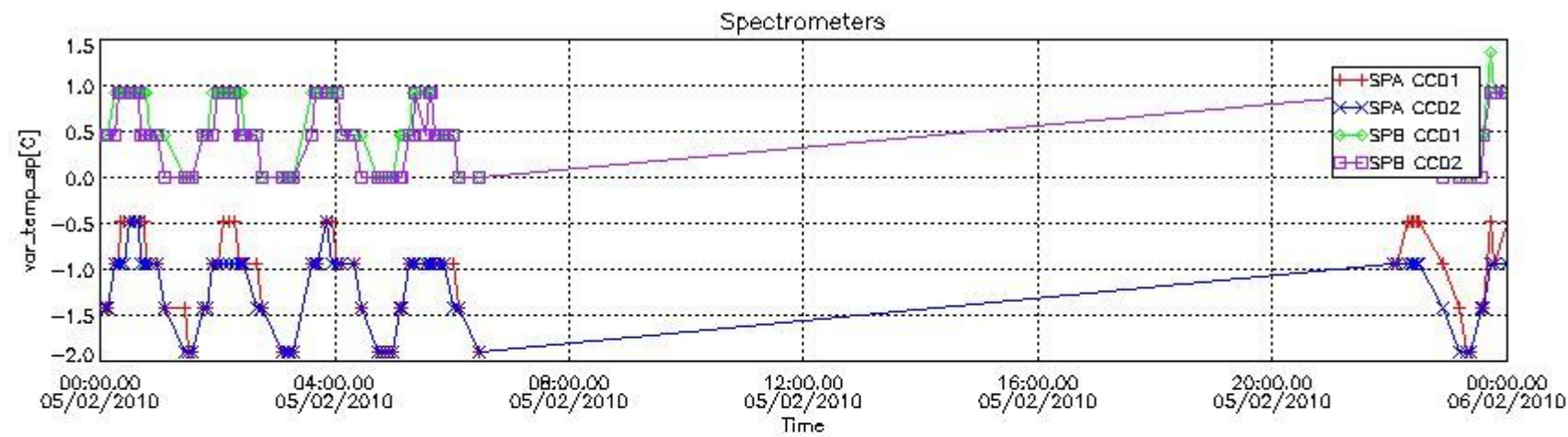
UTC start time	Star name	Star ID	Orbit
05-FEB-2010 00:34:25	Alp1Cru	12	41482
05-FEB-2010 01:23:12	1AlpUMi	49	41482
05-FEB-2010 01:37:56	3AlpLyr	5	41482
05-FEB-2010 02:15:01	Alp1Cru	12	41483
05-FEB-2010 02:20:42	lotCar	71	41483
05-FEB-2010 02:31:18	15RhoPup	132	41483
05-FEB-2010 03:03:48	1AlpUMi	49	41483
05-FEB-2010 03:26:55	55AlpOph	59	41483
05-FEB-2010 03:29:05	60BetOph	126	41483
05-FEB-2010 03:46:09	GamLup	131	41483
05-FEB-2010 03:55:38	Alp1Cru	12	41484
05-FEB-2010 04:01:18	lotCar	71	41484
05-FEB-2010 04:05:36	LamVel	65	41484
05-FEB-2010 04:11:54	15RhoPup	132	41484
05-FEB-2010 05:26:46	GamLup	131	41484

05-FEB-2010 05:41:54	lotCar	71	41485
05-FEB-2010 05:48:10	ZetPup	70	41485
05-FEB-2010 06:25:00	1AlpUMi	49	41485
05-FEB-2010 06:39:44	3AlpLyr	5	41485
05-FEB-2010 07:19:34	TheCar	124	41486
05-FEB-2010 07:26:48	LamVel	65	41486
05-FEB-2010 07:41:43	10AlpCMi	8	41486
05-FEB-2010 08:20:21	3AlpLyr	5	41486
05-FEB-2010 08:28:44	55AlpOph	59	41486
05-FEB-2010 09:00:10	TheCar	124	41487
05-FEB-2010 09:09:23	ZetPup	70	41487
05-FEB-2010 09:13:42	15RhoPup	132	41487
05-FEB-2010 09:22:19	10AlpCMi	8	41487
05-FEB-2010 09:49:01	7BetUMi	60	41487
05-FEB-2010 09:53:48	14EtaDra	119	41487
05-FEB-2010 10:00:57	3AlpLyr	5	41487
05-FEB-2010 10:09:20	55AlpOph	59	41487
05-FEB-2010 10:11:30	60BetOph	126	41487
05-FEB-2010 10:18:12	35EtaOph	86	41487
05-FEB-2010 10:24:29	TheSco	40	41487
05-FEB-2010 10:28:36	GamLup	131	41487
05-FEB-2010 12:05:06	TheSco	40	41488
05-FEB-2010 12:09:13	GamLup	131	41488
05-FEB-2010 12:21:23	TheCar	124	41489
05-FEB-2010 15:51:47	ZetPup	70	41491
05-FEB-2010 15:56:07	15RhoPup	132	41491
05-FEB-2010 16:04:43	10AlpCMi	8	41491
05-FEB-2010 16:43:21	3AlpLyr	5	41491
05-FEB-2010 19:17:19	15RhoPup	132	41493
05-FEB-2010 19:25:54	10AlpCMi	8	41493
05-FEB-2010 19:49:48	1AlpUMi	49	41493
05-FEB-2010 20:28:07	TheSco	40	41493
05-FEB-2010 20:32:17	GamLup	131	41493
05-FEB-2010 20:44:24	TheCar	124	41494
05-FEB-2010 20:49:03	DeIVel	46	41494
05-FEB-2010 20:51:38	LamVel	65	41494
05-FEB-2010 20:57:55	15RhoPup	132	41494
05-FEB-2010 21:06:30	10AlpCMi	8	41494
05-FEB-2010 21:13:01	78BetGem	17	41494
05-FEB-2010 21:30:24	1AlpUMi	49	41494
05-FEB-2010 21:33:11	7BetUMi	60	41494
05-FEB-2010 21:37:58	14EtaDra	119	41494
05-FEB-2010 21:41:20	23BetDra	130	41494
05-FEB-2010 21:45:09	3AlpLyr	5	41494
05-FEB-2010 21:53:34	55AlpOph	59	41494
05-FEB-2010 21:55:44	60BetOph	126	41494
05-FEB-2010 22:08:43	TheSco	40	41494
05-FEB-2010 22:12:54	GamLup	131	41494
05-FEB-2010 22:25:01	TheCar	124	41495
05-FEB-2010 22:32:14	LamVel	65	41495
05-FEB-2010 22:38:31	15RhoPup	132	41495
05-FEB-2010 22:47:06	10AlpCMi	8	41495
05-FEB-2010 23:13:46	7BetUMi	60	41495
05-FEB-2010 23:25:45	3AlpLyr	5	41495
05-FEB-2010 23:49:20	TheSco	40	41495
05-FEB-2010 23:53:31	GamLup	131	41495

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100205_000536_000000412086_00345_41481_8787.N1	05-FEB-2010 00:05:36	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	41481	No
2	GOM_TRA_1PNPDE20100205_000746_000000482086_00345_41481_8788.N1	05-FEB-2010 00:07:46	Bright	48.000	126	60Bet Oph	2.7700	4250.0	96	41481	No
3	GOM_TRA_1PNPDE20100205_001426_000000442086_00345_41481_8798.N1	05-FEB-2010 00:14:26	Twi_and_stray	44.000	86	35Eta Oph	2.4300	10200.	88	41481	No
4	GOM_TRA_1PNPDE20100205_001856_000000502086_00345_41481_8799.N1	05-FEB-2010 00:18:56	Dark	49.500	16	21Alp Sco	1.0200	3000.0	99	41481	No
5	GOM_TRA_1PNPDE20100205_002045_000000422086_00345_41481_8800.N1	05-FEB-2010 00:20:45	Dark	41.500	40	The Sco	1.8590	7100.0	83	41481	No
6	GOM_TRA_1PNPDE20100205_002449_000000442086_00345_41481_8801.N1	05-FEB-2010 00:24:49	Dark	44.000	131	Gam Lup	2.8000	26000.	88	41481	No
7	GOM_TRA_1PNPDE20100205_003058_000000532086_00346_41482_8802.N1	05-FEB-2010 00:30:58	Dark	52.500	10	Bet Cen	0.61000	28000.	105	41482	No
8	GOM_TRA_1PNPDE20100205_003633_000000442086_00346_41482_8803.N1	05-FEB-2010 00:36:33	Dark	44.000	99	Del Cen	2.5750	26000.	88	41482	No
9	GOM_TRA_1PNPDE20100205_003958_000000412086_00346_41482_8804.N1	05-FEB-2010 00:39:58	Dark	41.000	71	lot Car	2.2460	7700.0	82	41482	No
10	GOM_TRA_1PNPDE20100205_004142_000000422086_00346_41482_8805.N1	05-FEB-2010 00:41:42	Dark	41.500	46	Del Vel	1.9540	10600.	83	41482	No
11	GOM_TRA_1PNPDE20100205_004416_000000452086_00346_41482_8806.N1	05-FEB-2010 00:44:16	Straylight	45.000	65	Lam Vel	2.2040	4400.0	90	41482	No
12	GOM_TRA_1PNPDE20100205_004615_000000412086_00346_41482_8807.N1	05-FEB-2010 00:46:15	Straylight	41.000	70	Zet Pup	2.2460	39000.	82	41482	No
13	GOM_TRA_1PNPDE20100205_005035_000000412086_00346_41482_8808.N1	05-FEB-2010 00:50:35	Straylight	41.000	132	15Rho Pup	2.8030	6900.0	82	41482	No
14	GOM_TRA_1PNPDE20100205_005912_000000512086_00346_41482_8809.N1	05-FEB-2010 00:59:12	Twi_and_stray	51.000	8	10Alp CMi	0.40000	6500.0	102	41482	No
15	GOM_TRA_1PNPDE20100205_010544_000000412086_00346_41482_8810.N1	05-FEB-2010 01:05:44	Bright	41.000	17	78Bet Gem	1.1610	4500.0	82	41482	No
16	GOM_TRA_1PNPDE20100205_012556_000000422086_00346_41482_8811.N1	05-FEB-2010 01:25:56	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	41482	No
17	GOM_TRA_1PNPDE20100205_013043_000000442086_00346_41482_8812.N1	05-FEB-2010 01:30:43	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	41482	No
18	GOM_TRA_1PNPDE20100205_013403_000000372086_00346_41482_8813.N1	05-FEB-2010 01:34:03	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	41482	No
19	GOM_TRA_1PNPDE20100205_014612_000000392086_00346_41482_8814.N1	05-FEB-2010 01:46:12	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	41482	No
20	GOM_TRA_1PNPDE20100205_014822_000000402086_00346_41482_8815.N1	05-FEB-2010 01:48:22	Bright	40.000	126	60Bet Oph	2.7700	4250.0	80	41482	No
21	GOM_TRA_1PNPDE20100205_015503_000000432086_00346_41482_8814.N1	05-FEB-2010 01:55:03	Twi_and_stray	43.000	86	35Eta Oph	2.4300	10200.	86	41482	No
22	GOM_TRA_1PNPDE20100205_015933_000000472086_00346_41482_8815.N1	05-FEB-2010 01:59:33	Dark	47.000	16	21Alp Sco	1.0200	3000.0	94	41482	No
23	GOM_TRA_1PNPDE20100205_020121_000000442086_00346_41482_8816.N1	05-FEB-2010 02:01:21	Dark	44.000	40	The Sco	1.8590	7100.0	88	41482	No
24	GOM_TRA_1PNPDE20100205_020525_000000472086_00346_41482_8817.N1	05-FEB-2010 02:05:25	Dark	47.000	131	Gam Lup	2.8000	26000.	94	41482	No
25	GOM_TRA_1PNPDE20100205_021135_000000472086_00347_41483_8818.N1	05-FEB-2010 02:11:35	Dark	47.000	10	Bet Cen	0.61000	28000.	94	41483	No
26	GOM_TRA_1PNPDE20100205_021709_000000432086_00347_41483_8819.N1	05-FEB-2010 02:17:09	Dark	43.000	99	Del Cen	2.5750	26000.	86	41483	No
27	GOM_TRA_1PNPDE20100205_022218_000000472086_00347_41483_8820.N1	05-FEB-2010 02:22:18	Dark	47.000	46	Del Vel	1.9540	10600.	94	41483	No
28	GOM_TRA_1PNPDE20100205_022452_000000462086_00347_41483_8821.N1	05-FEB-2010 02:24:52	Straylight	45.500	65	Lam Vel	2.2040	4400.0	91	41483	No
29	GOM_TRA_1PNPDE20100205_022651_000000422086_00347_41483_8822.N1	05-FEB-2010 02:26:51	Straylight	42.000	70	Zet Pup	2.2460	39000.	84	41483	No
30	GOM_TRA_1PNPDE20100205_023948_000000472086_00347_41483_8823.N1	05-FEB-2010 02:39:48	Twi_and_stray	46.500	8	10Alp CMi	0.40000	6500.0	93	41483	No
31	GOM_TRA_1PNPDE20100205_024620_000000412086_00347_41483_8824.N1	05-FEB-2010 02:46:20	Bright	41.000	17	78Bet Gem	1.1610	4500.0	82	41483	No
32	GOM_TRA_1PNPDE20100205_030632_000000412086_00347_41483_8825.N1	05-FEB-2010 03:06:32	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	41483	No
33	GOM_TRA_1PNPDE20100205_031119_000000442086_00347_41483_8837.N1	05-FEB-2010 03:11:19	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	41483	No
34	GOM_TRA_1PNPDE20100205_031439_000000372086_00347_41483_8838.N1	05-FEB-2010 03:14:39	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	41483	No
35	GOM_TRA_1PNPDE20100205_031826_000000372086_00347_41483_8839.N1	05-FEB-2010 03:18:26	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	41483	No
36	GOM_TRA_1PNPDE20100205_033539_000000432086_00347_41483_8840.N1	05-FEB-2010 03:35:39	Twi_and_stray	42.500	86	35Eta Oph	2.4300	10200.	85	41483	No
37	GOM_TRA_1PNPDE20100205_034009_000000542086_00347_41483_8841.N1	05-FEB-2010 03:40:09	Dark	53.500	16	21Alp Sco	1.0200	3000.0	107	41483	No
38	GOM_TRA_1PNPDE20100205_034158_000000422086_00347_41483_8842.N1	05-FEB-2010 03:41:58	Dark	42.000	40	The Sco	1.8590	7100.0	84	41483	No
39	GOM_TRA_1PNPDE20100205_035211_000000412086_00348_41484_8843.N1	05-FEB-2010 03:52:11	Dark	41.000	10	Bet Cen	0.61000	28000.	82	41484	No
40	GOM_TRA_1PNPDE20100205_035746_000000452086_00348_41484_8844.N1	05-FEB-2010 03:57:46	Dark	45.000	99	Del Cen	2.5750	26000.	90	41484	No
41	GOM_TRA_1PNPDE20100205_040254_000000442086_00348_41484_8845.N1	05-FEB-2010 04:02:54	Dark	43.500	46	Del Vel	1.9540	10600.	87	41484	No
42	GOM_TRA_1PNPDE20100205_040728_000000412086_00348_41484_8846.N1	05-FEB-2010 04:07:28	Straylight	41.000	70	Zet Pup	2.2460	39000.	82	41484	No
43	GOM_TRA_1PNPDE20100205_042024_000000482086_00348_41484_8847.N1	05-FEB-2010 04:20:24	Twi_and_stray	48.000	8	10Alp CMi	0.40000	6500.0	96	41484	No
44	GOM_TRA_1PNPDE20100205_042656_000000412086_00348_41484_8848.N1	05-FEB-2010 04:26:56	Bright	41.000	17	78Bet Gem	1.1610	4500.0	82	41484	No
45	GOM_TRA_1PNPDE20100205_044418_000000372086_00348_41484_8849.N1	05-FEB-2010 04:44:18	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	41484	No
46	GOM_TRA_1PNPDE20100205_044708_000000402086_00348_41484_8850.N1	05-FEB-2010 04:47:08	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	41484	No
47	GOM_TRA_1PNPDE20100205_045154_000000442086_00348_41484_8858.N1	05-FEB-2010 04:51:54	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	41484	No
48	GOM_TRA_1PNPDE20100205_045515_000000392086_00348_41484_8859.N1	05-FEB-2010 04:55:15	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	41484	No
49	GOM_TRA_1PNPDE20100205_045902_000000362086_00348_41484_8860.N1	05-FEB-2010 04:59:02	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	41484	No
50	GOM_TRA_1PNPDE20100205_050725_000000392086_00348_41484_8861.N1	05-FEB-2010 05:07:25	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	41484	No
51	GOM_TRA_1PNPDE20100205_050935_000000402086_00348_41484_8862.N1	05-FEB-2010 05:09:35	Bright	40.000	126	60Bet Oph	2.7700	4250.0	80	41484	No
52	GOM_TRA_1PNPDE20100205_051616_000000462086_00348_41484_8863.N1	05-FEB-2010 05:16:16	Twi_and_stray	45.500	86	35Eta Oph	2.4300	10200.	91	41484	No
53	GOM_TRA_1PNPDE20100205_052047_000000512086_00348_41484_8864.N1	05-FEB-2010 05:20:47	Dark	50.500	16	21Alp Sco	1.0200	3000.0	101	41484	No
54	GOM_TRA_1PNPDE20100205_052234_000000402086_00348_41484_8865.N1	05-FEB-2010 05:22:34	Dark	39.500	40	The Sco	1.8590	7100.0	79	41484	No
55	GOM_TRA_1PNPDE20100205_053248_000000422086_00349_41485_8866.N1	05-FEB-2010 05:32:48	Dark	42.000	10	Bet Cen	0.61000	28000.	84	41485	No
56	GOM_TRA_1PNPDE20100205_053608_000000502086_00349_41485_8867.N1	05-FEB-2010 05:36:08	Dark	50.000	12	Alp1Cru	0.77500	30000.	100	41485	No
57	GOM_TRA_1PNPDE20100205_053823_000000462086_00349_41485_8868.N1	05-FEB-2010 05:38:23	Dark	45.500	99	Del Cen	2.5750	26000.	91	41485	No
58	GOM_TRA_1PNPDE20100205_054330_000000432086_00349_41485_8869.N1	05-FEB-2010 05:43:30	Dark	42.500	46	Del Vel	1.9540	10600.	85	41485	No

59	GOM_TRA_1PNPDE20100205_054605_000000472086_00349_41485_8870.N1	05-FEB-2010 05:46:05	Straylight	46.500	65	Lam Vel	2.2040	4400.0	93	41485	No
60	GOM_TRA_1PNPDE20100205_055224_000000402086_00349_41485_8871.N1	05-FEB-2010 05:52:24	Straylight	40.000	132	15Rho Pup	2.8030	6900.0	80	41485	No
61	GOM_TRA_1PNPDE20100205_060100_000000492086_00349_41485_8872.N1	05-FEB-2010 06:01:00	Twi_and_stray	49.000	8	10Alp CMi	0.40000	6500.0	98	41485	No
62	GOM_TRA_1PNPDE20100205_060732_000000412086_00349_41485_8873.N1	05-FEB-2010 06:07:32	Bright	40.500	17	78Bet Gem	1.1610	4500.0	81	41485	No
63	GOM_TRA_1PNPDE20100205_062743_000000362086_00349_41485_8874.N1	05-FEB-2010 06:27:43	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	41485	No
64	GOM_TRA_1PNPDE20100205_220221_000000462086_00358_41494_8957.N1	05-FEB-2010 22:02:21	Twi_and_stray	46.000	86	35Eta Oph	2.4300	10200.	92	41494	No
65	GOM_TRA_1PNPDE20100205_220654_000000502086_00358_41494_8958.N1	05-FEB-2010 22:06:54	Dark	50.000	16	21Alp Sco	1.0200	3000.0	100	41494	No
66	GOM_TRA_1PNPDE20100205_221853_000000482086_00359_41495_8959.N1	05-FEB-2010 22:18:53	Dark	47.500	10	Bet Cen	0.61000	28000.	95	41495	No
67	GOM_TRA_1PNPDE20100205_222145_000000472086_00359_41495_8960.N1	05-FEB-2010 22:21:45	Dark	47.000	20	Bet Cru	1.2530	30000.	94	41495	No
68	GOM_TRA_1PNPDE20100205_222309_000000482086_00359_41495_8961.N1	05-FEB-2010 22:23:09	Dark	47.500	64	Gam Cen	2.2000	10600.	95	41495	No
69	GOM_TRA_1PNPDE20100205_222750_000000432086_00359_41495_8962.N1	05-FEB-2010 22:27:50	Dark	43.000	71	lot Car	2.2460	7700.0	86	41495	No
70	GOM_TRA_1PNPDE20100205_222932_000000422086_00359_41495_8963.N1	05-FEB-2010 22:29:32	Dark	41.500	46	Del Vel	1.9540	10600.	83	41495	No
71	GOM_TRA_1PNPDE20100205_225331_000000382086_00359_41495_8964.N1	05-FEB-2010 22:53:31	Bright	38.000	17	78Bet Gem	1.1610	4500.0	76	41495	No
72	GOM_TRA_1PNPDE20100205_231053_000000332086_00359_41495_8965.N1	05-FEB-2010 23:10:53	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	41495	No
73	GOM_TRA_1PNPDE20100205_231827_000000452086_00359_41495_8966.N1	05-FEB-2010 23:18:27	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	41495	No
74	GOM_TRA_1PNPDE20100205_232150_000000412086_00359_41495_8967.N1	05-FEB-2010 23:21:50	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	41495	No
75	GOM_TRA_1PNPDE20100205_233404_000000572086_00359_41495_8968.N1	05-FEB-2010 23:34:04	Bright	57.000	59	55Alp Oph	2.0800	8900.0	114	41495	No
76	GOM_TRA_1PNPDE20100205_233614_000000562086_00359_41495_8969.N1	05-FEB-2010 23:36:14	Bright	56.000	126	60Bet Oph	2.7700	4250.0	112	41495	No
77	GOM_TRA_1PNPDE20100205_234258_000000462086_00359_41495_8978.N1	05-FEB-2010 23:42:58	Twi_and_stray	45.500	86	35Eta Oph	2.4300	10200.	91	41495	No
78	GOM_TRA_1PNPDE20100205_234731_000000592086_00359_41495_8979.N1	05-FEB-2010 23:47:31	Dark	58.500	16	21Alp Sco	1.0200	3000.0	117	41495	No
79	GOM_TRA_1PNPDE20100205_235929_000000392086_00360_41496_8980.N1	05-FEB-2010 23:59:29	Dark	38.500	10	Bet Cen	0.61000	28000.	77	41496	No

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



4. Overview of dark signal processing per product

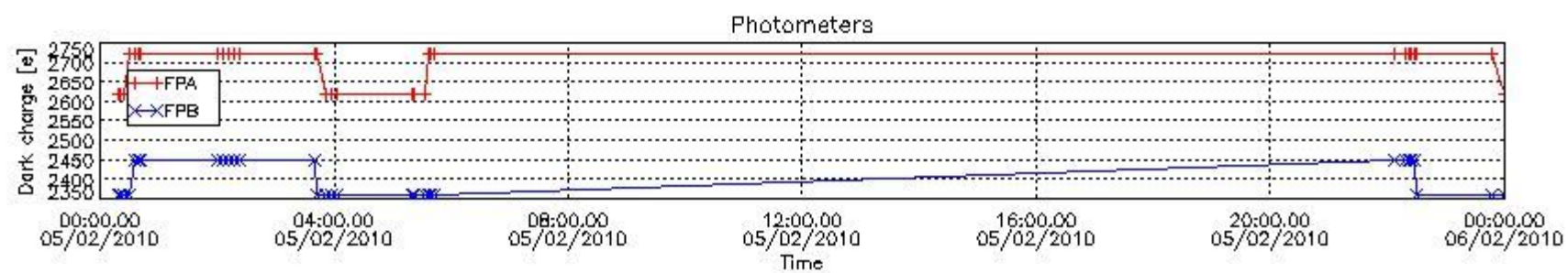
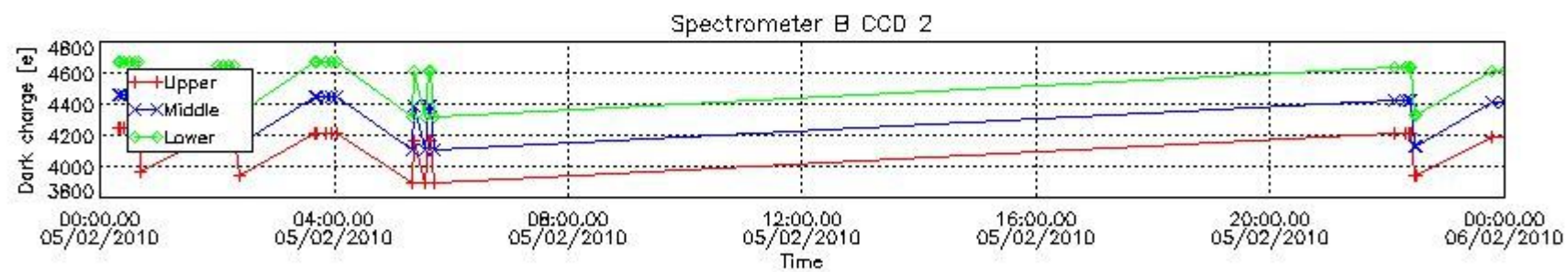
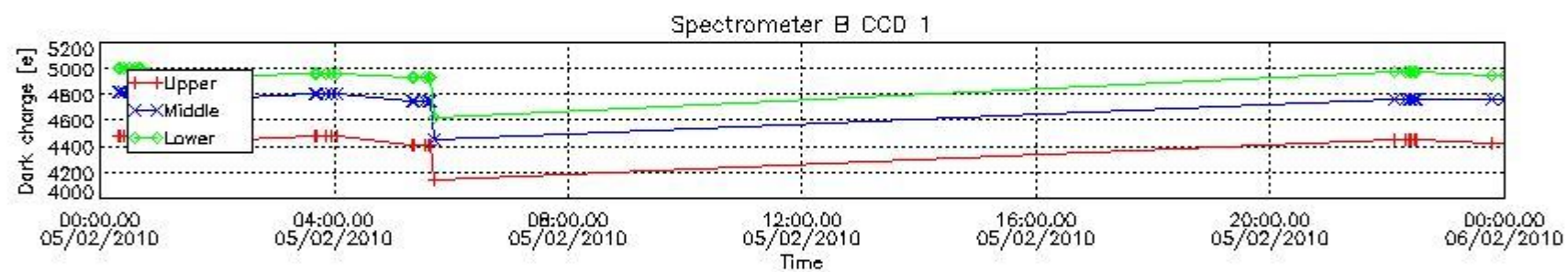
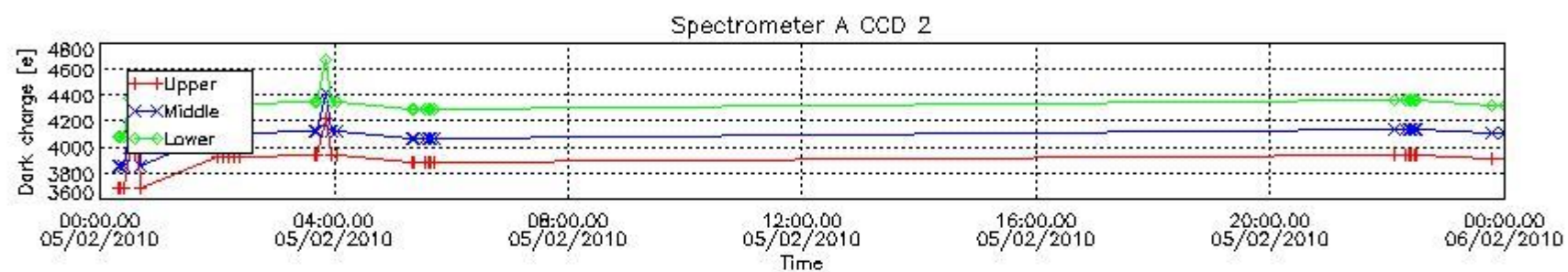
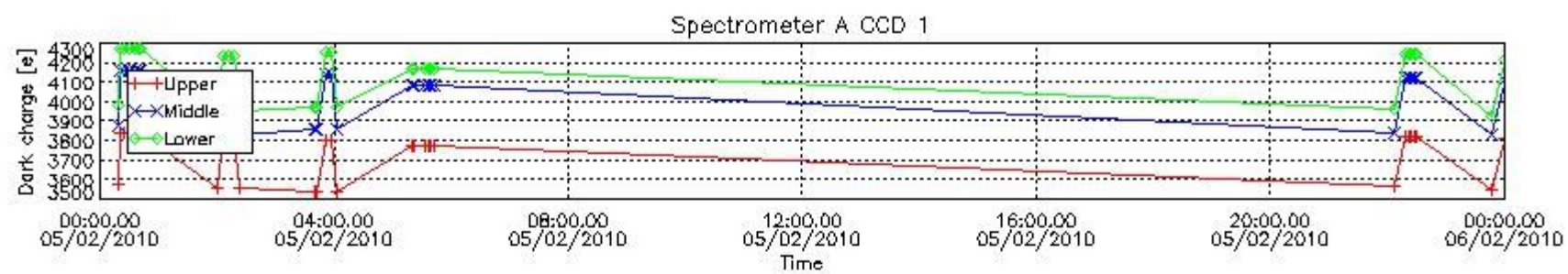
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 All products used the DSA observation for the DC computation

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



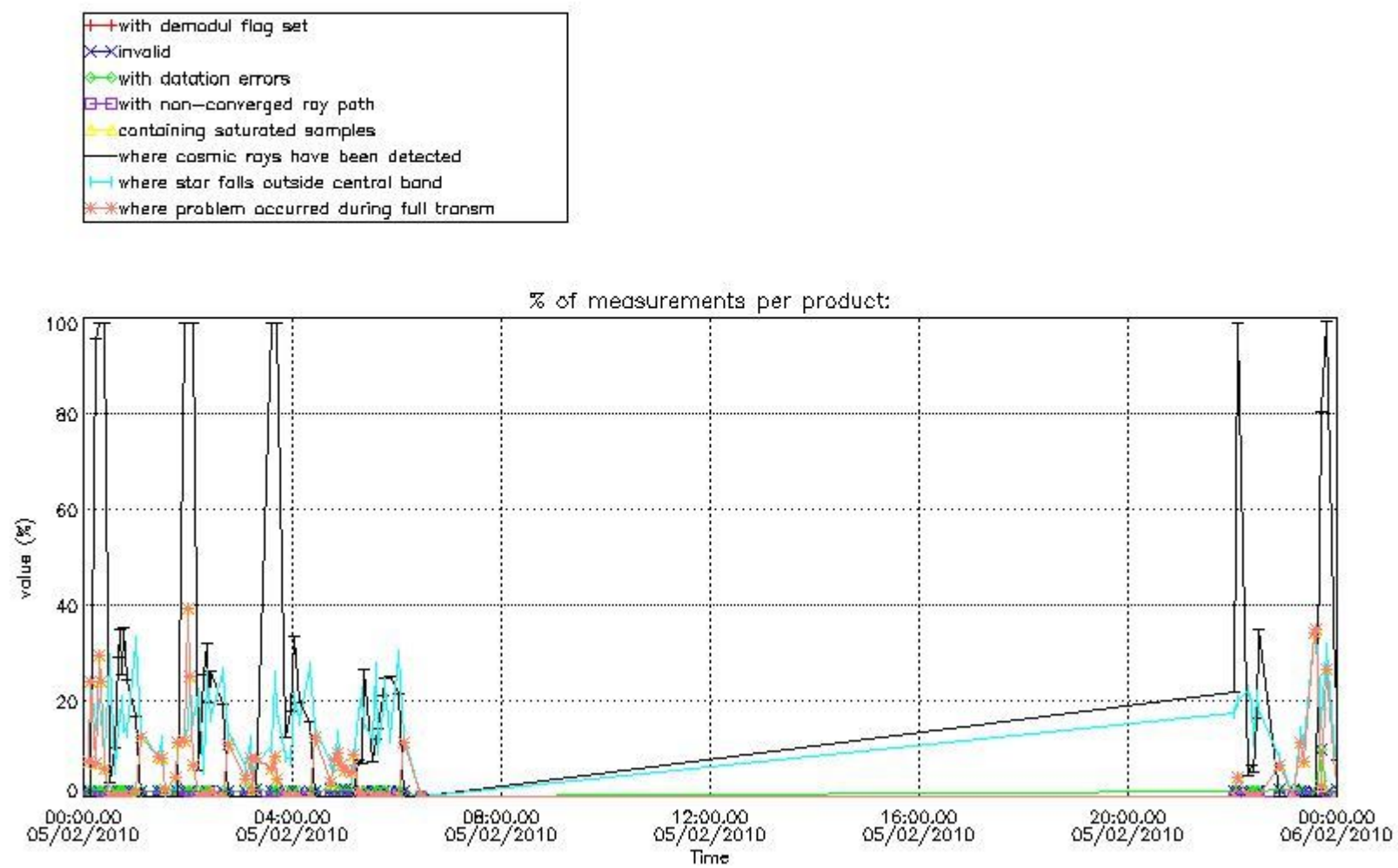
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

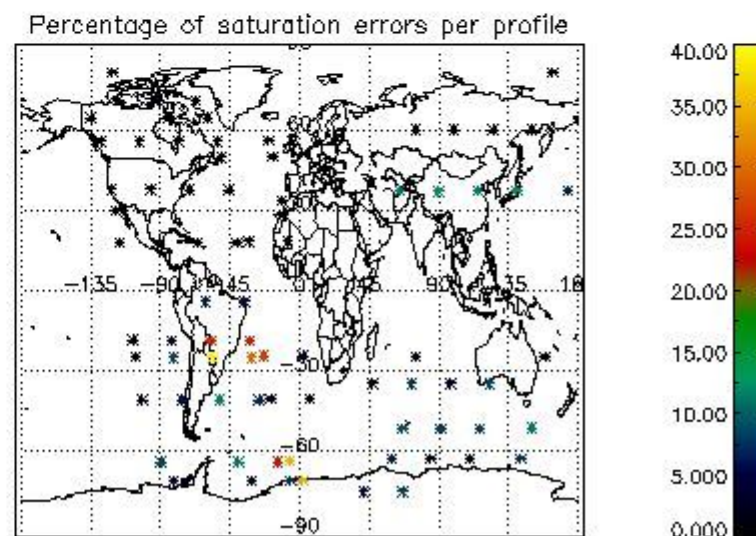
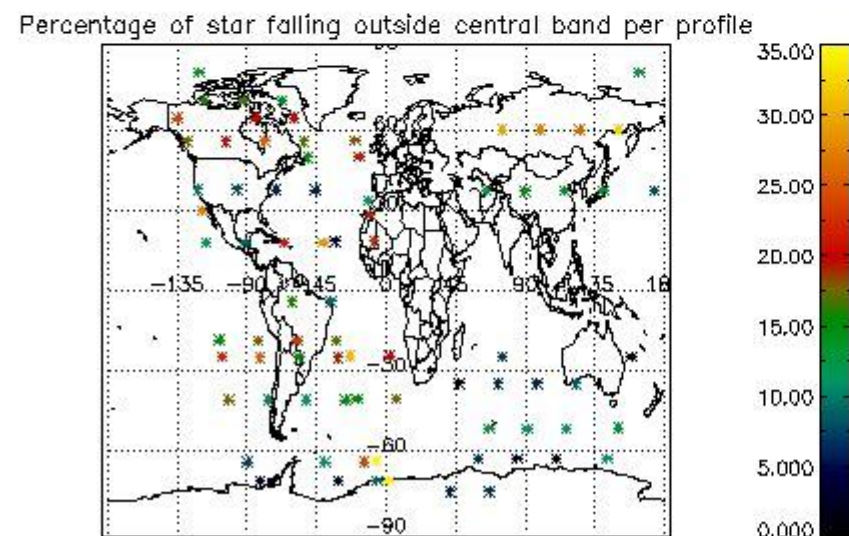
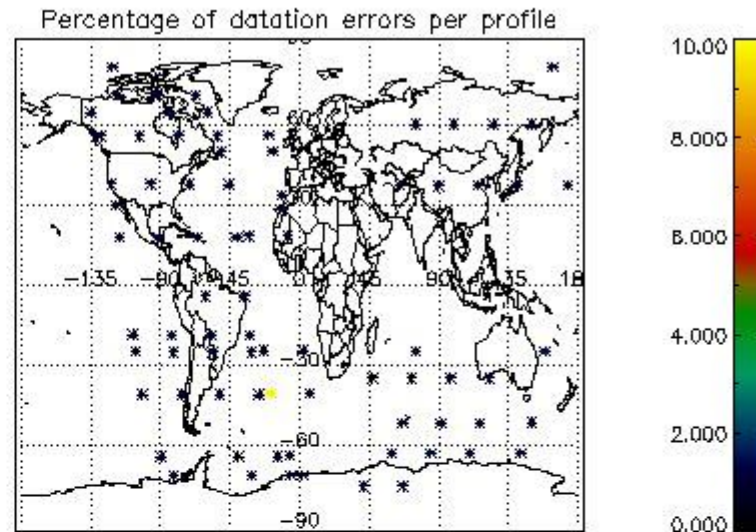
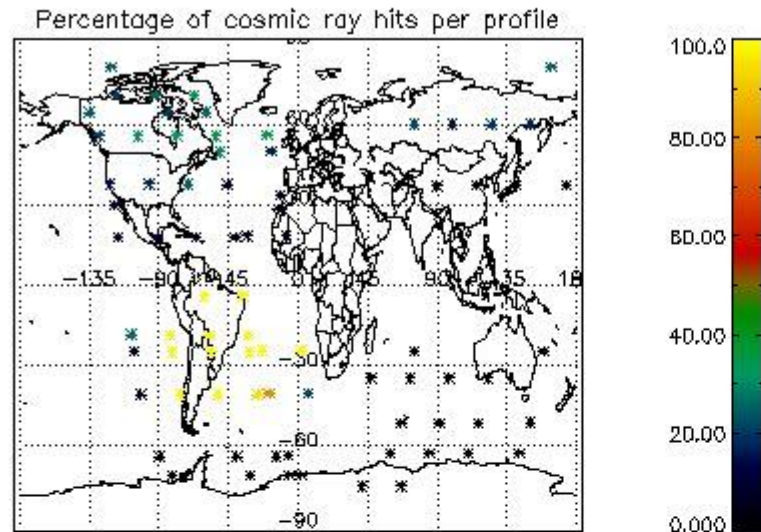
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	50.6329 %
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)



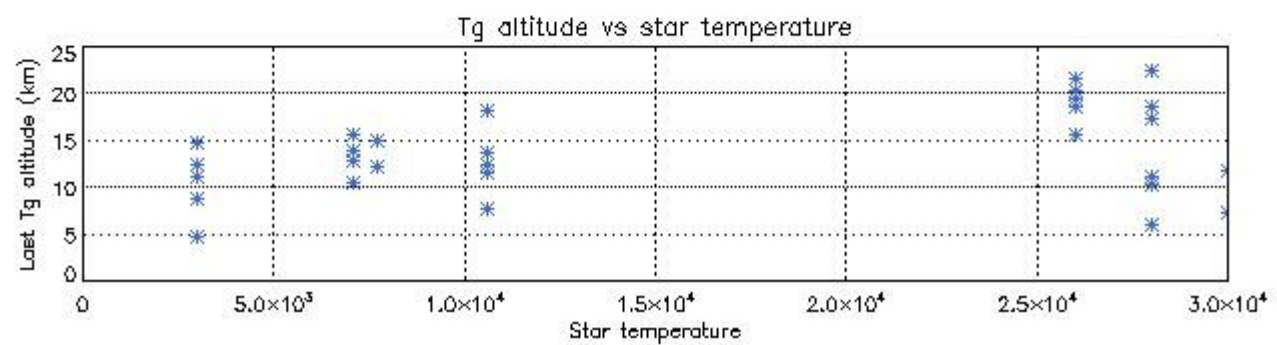
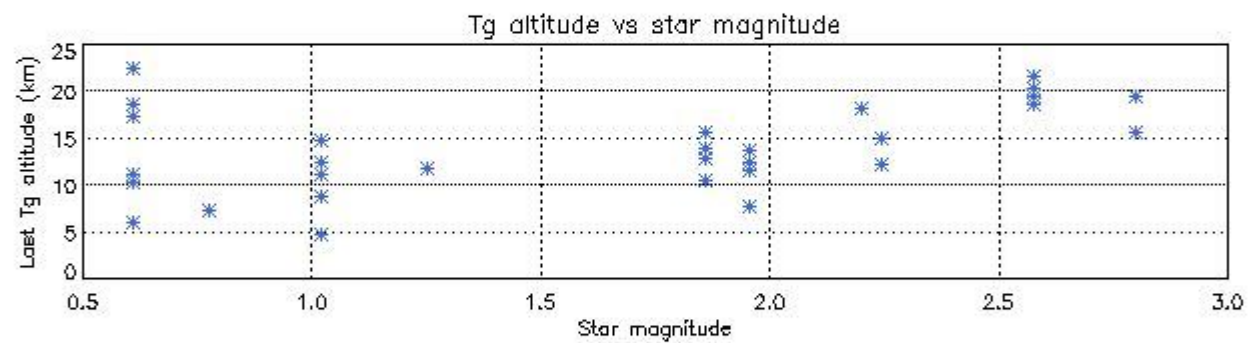
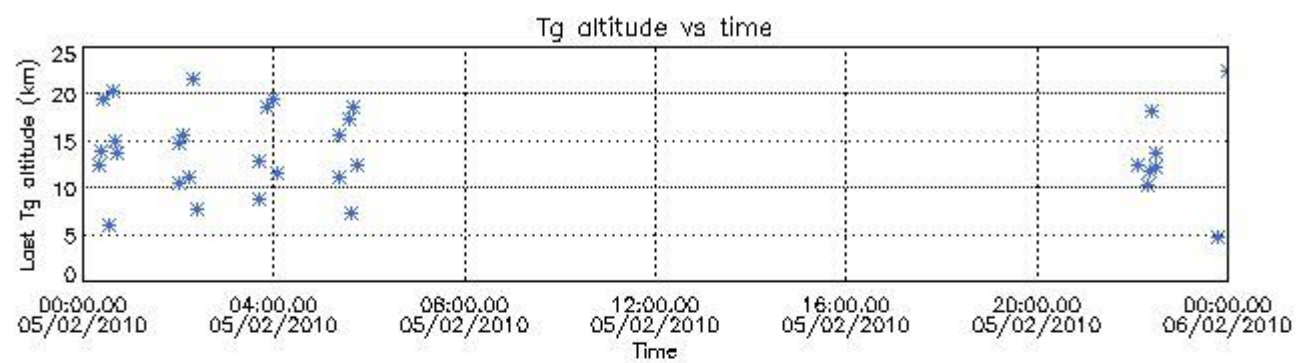
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.780	17.949	NaN
St. deviation:	4.5145	5.4107	NaN
Maximum:	22.390	28.685	NaN
Minimum:	4.8075	4.3600	NaN
Number of data:	32.000	29.000	NaN

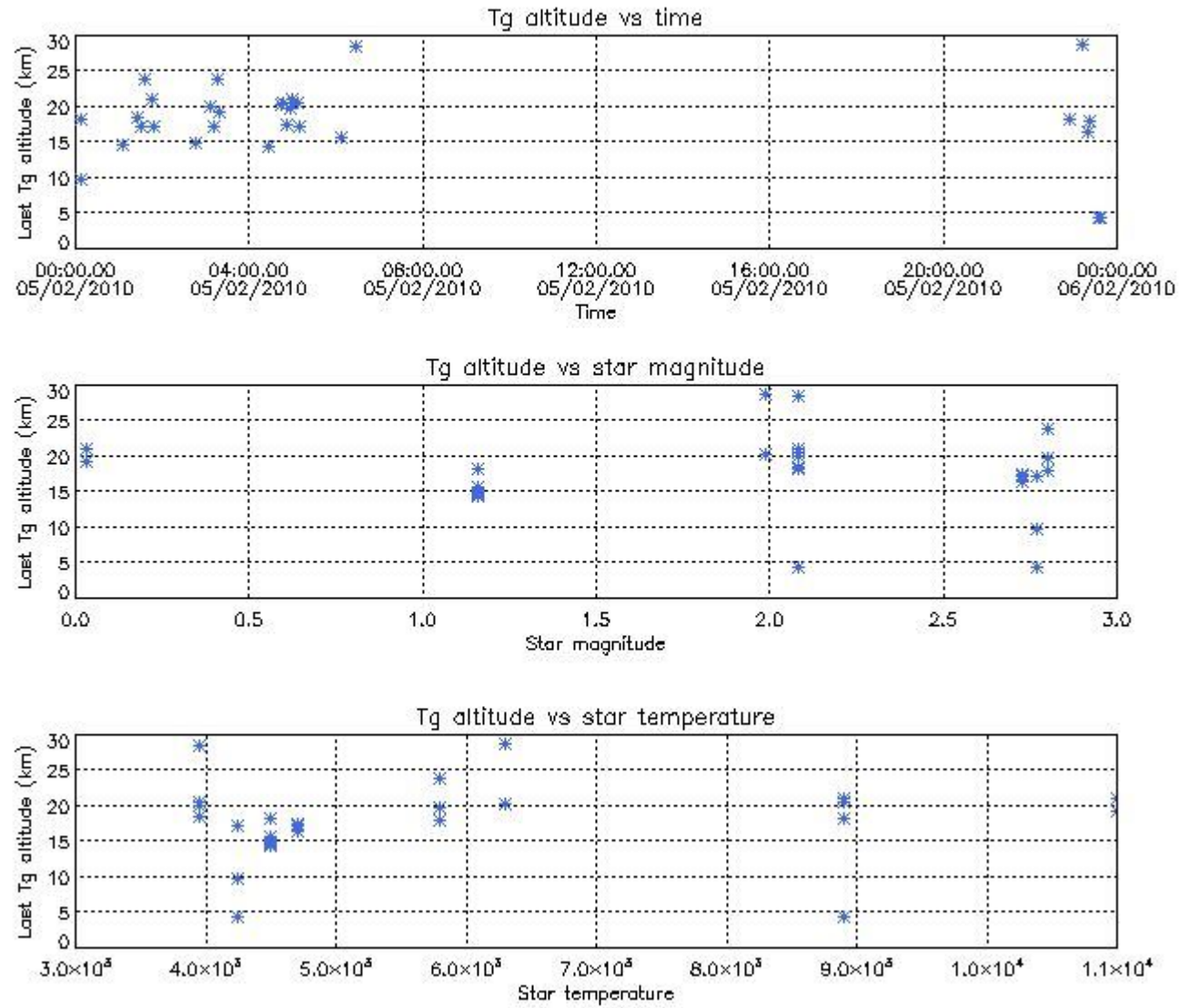
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

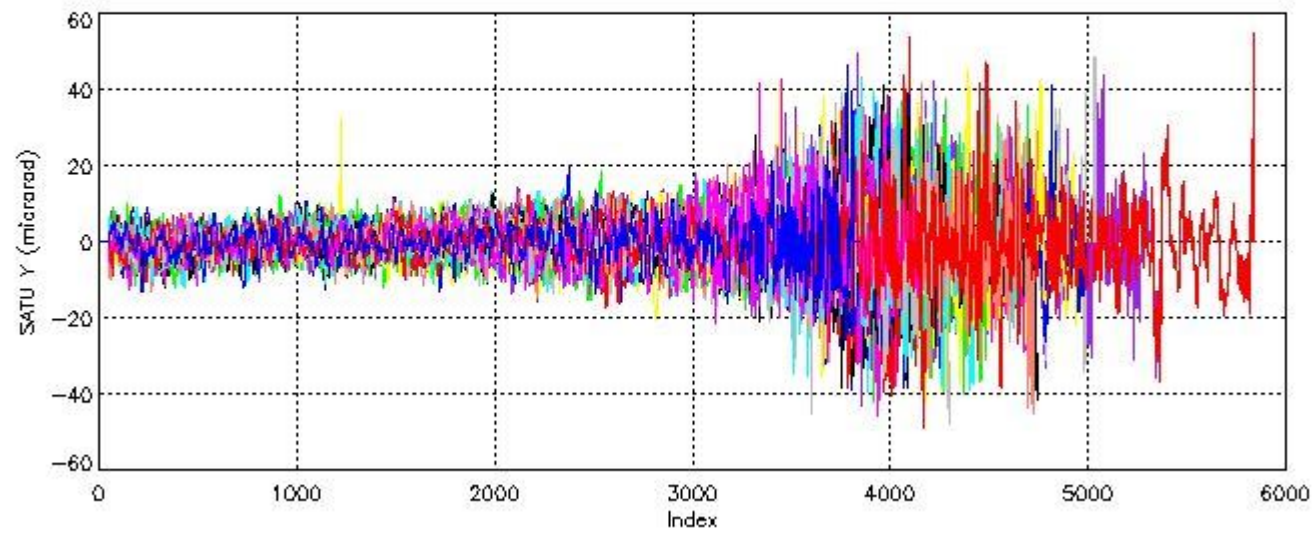
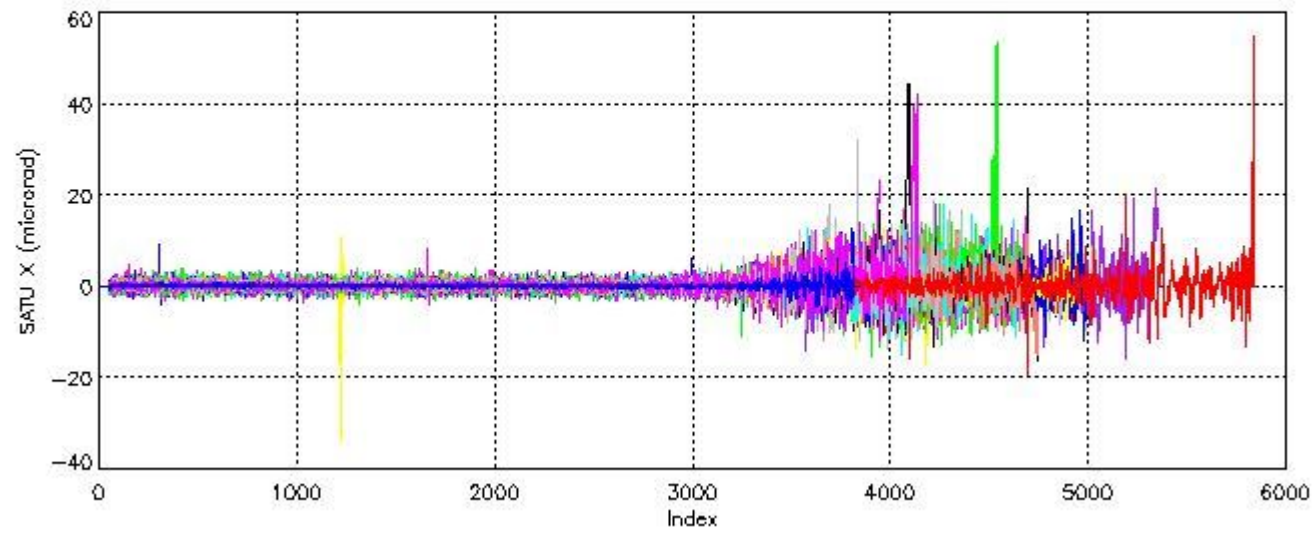


7. Star Acquisition and Tracking Unit (SATU)

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:	0.11781	-0.57287	0.10180	0.0035141
St. deviation:	0.47861	2.9318	0.50418	2.8621
Maximum:	9.1000	12.200	3.0000	10.100
Minimum:	-4.0000	-13.400	-3.4000	-13.800

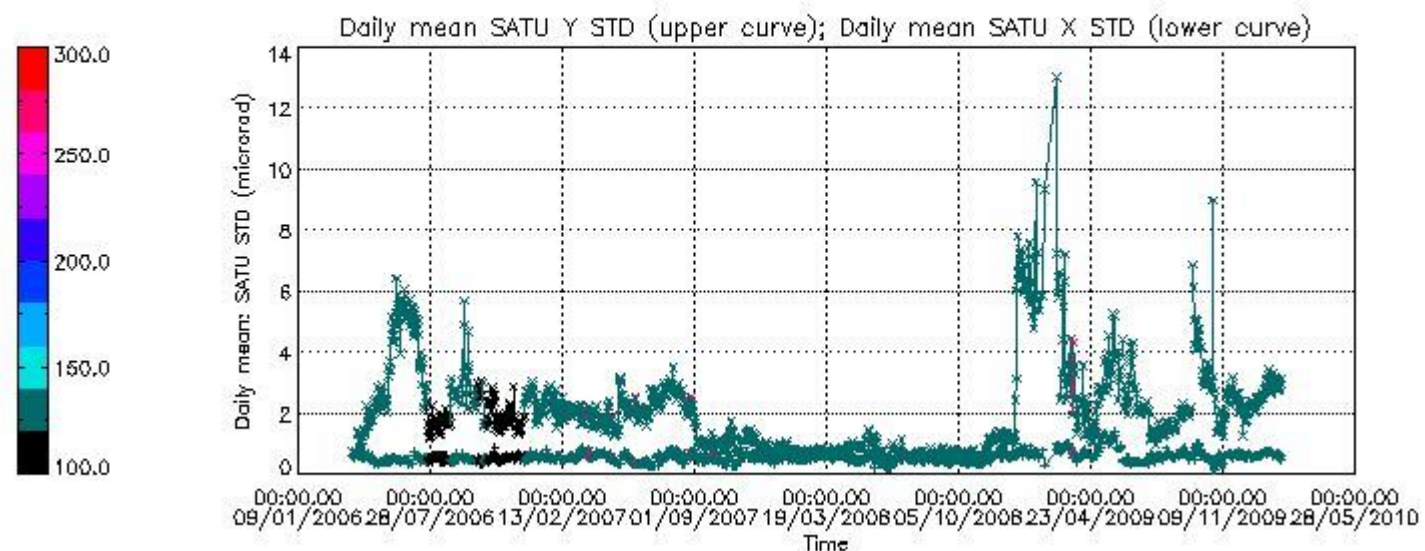
Number of data:	30700.	30700.	26100.	26100.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

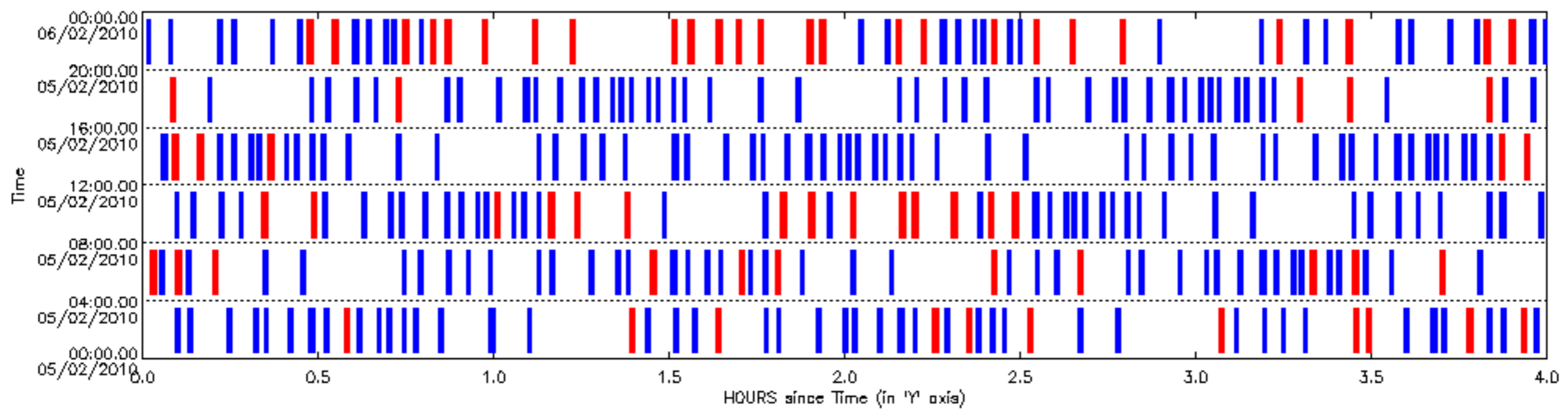
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

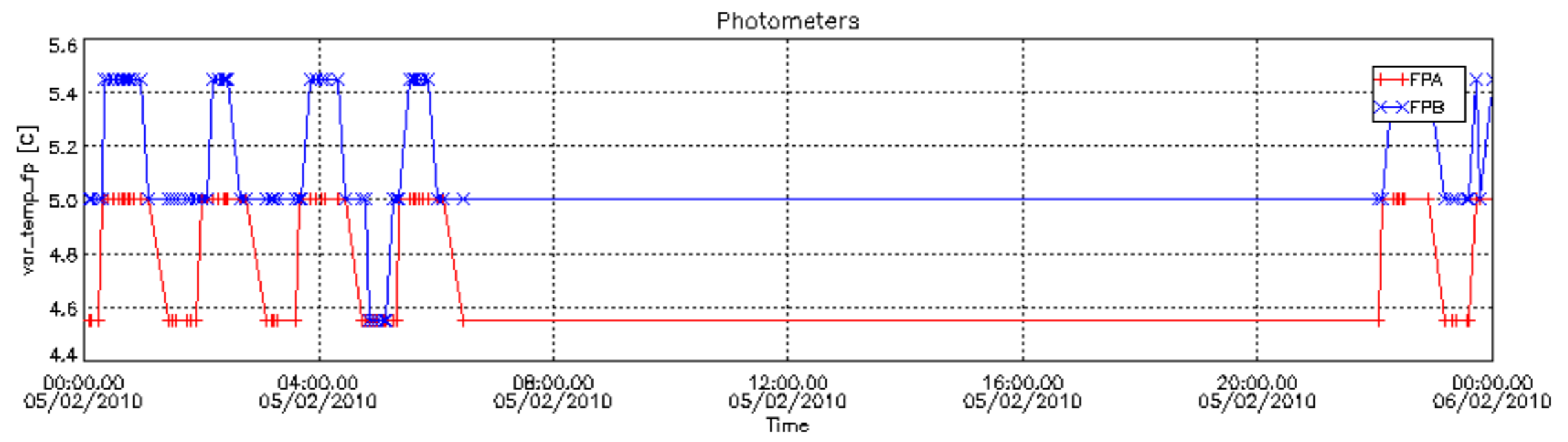
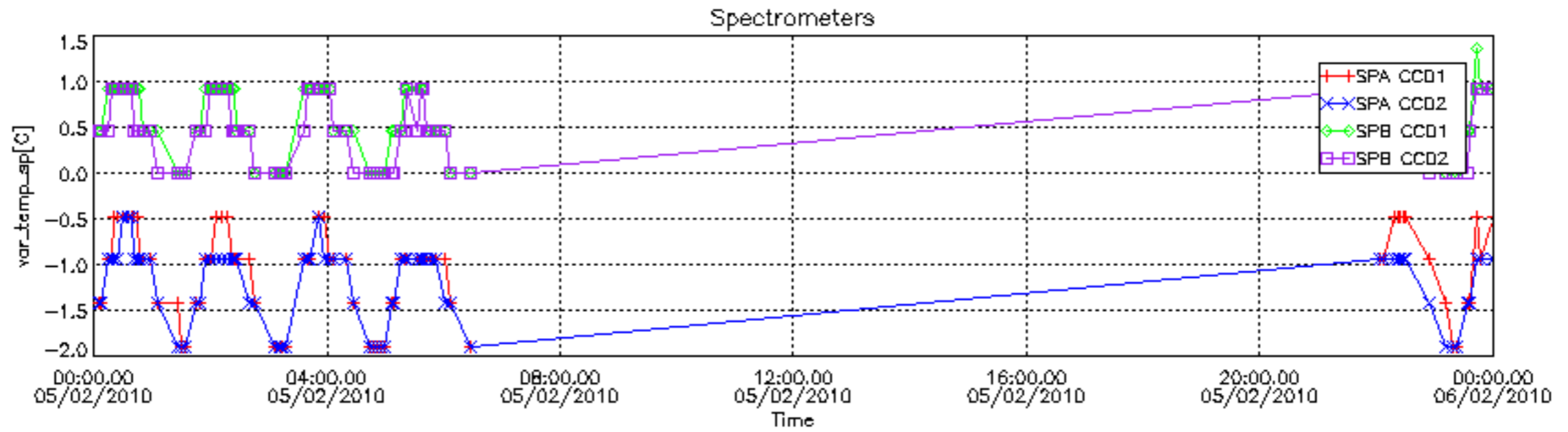


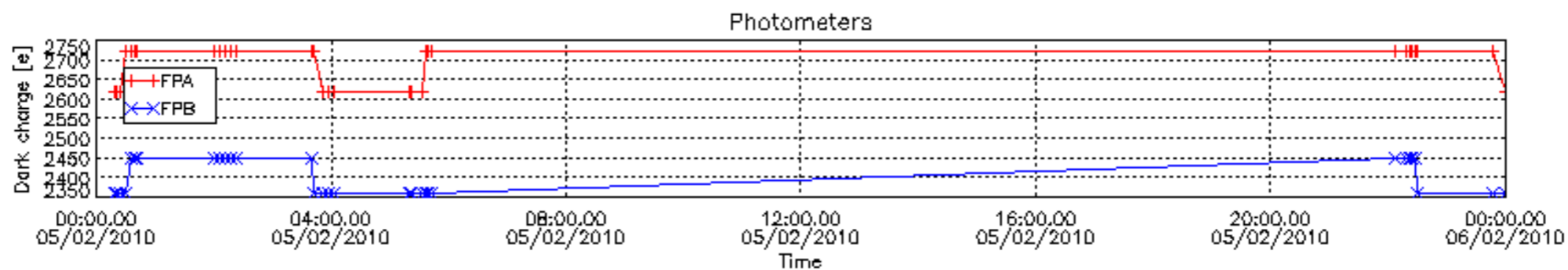
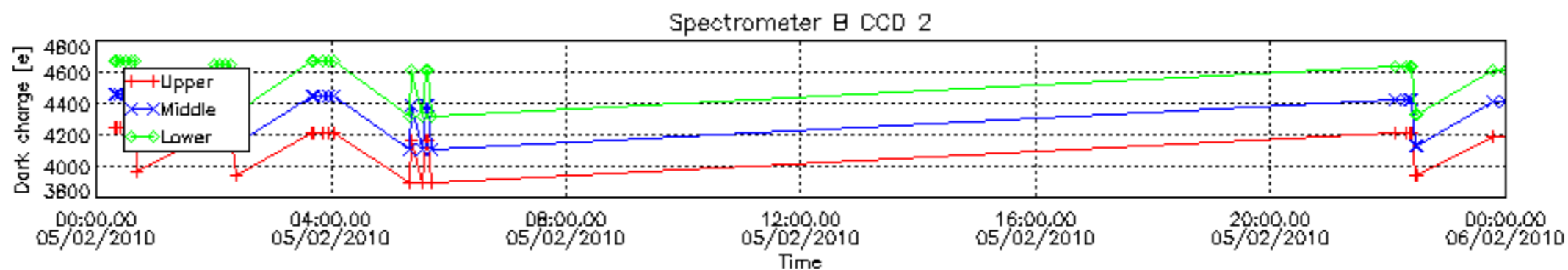
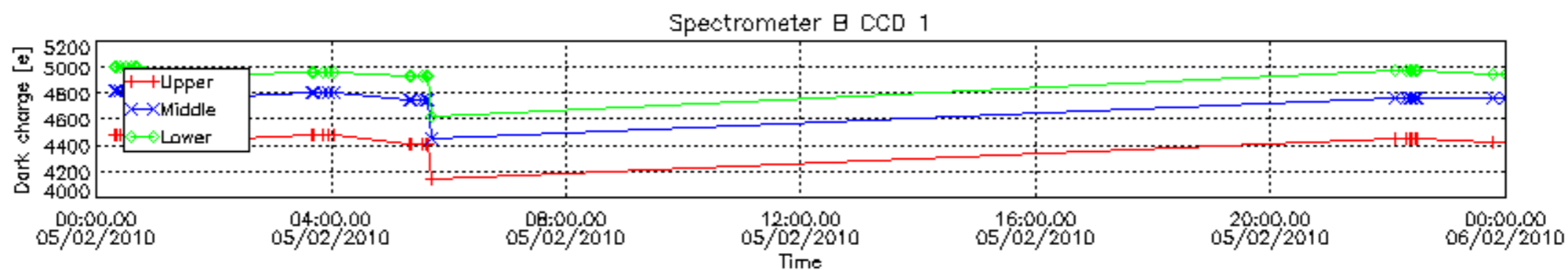
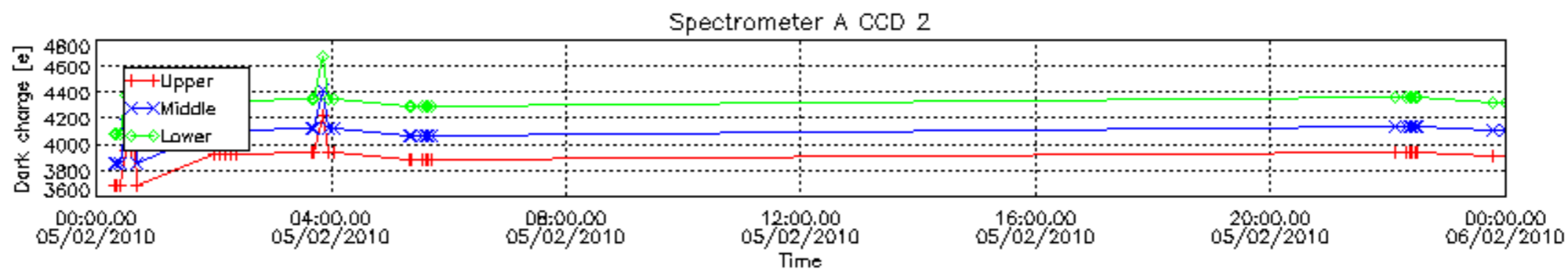
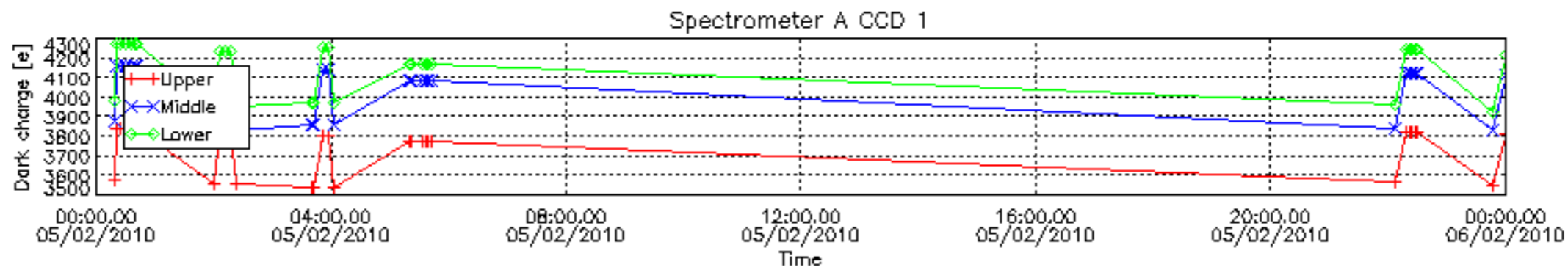
8. Auxiliary Data Files used for the production reported in section 2.4

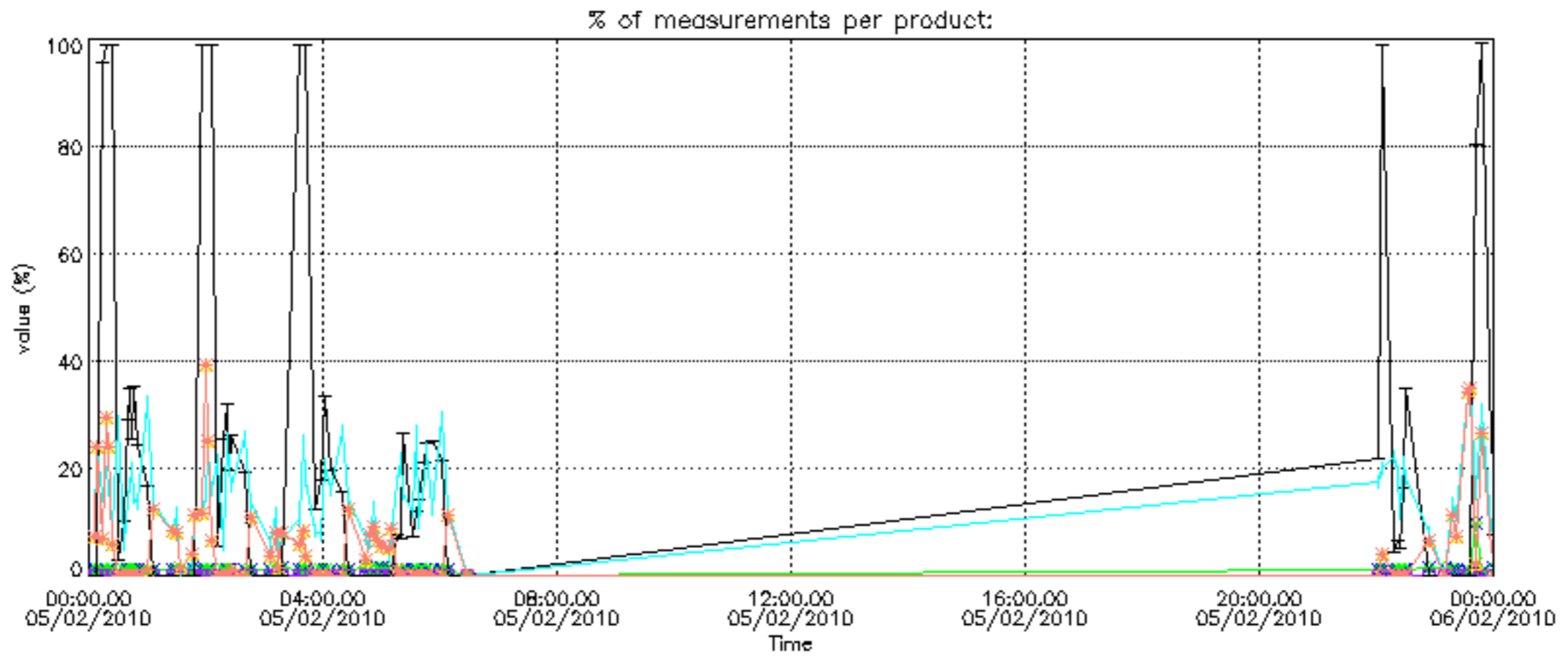
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	05-FEB-2010 00:05:36
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100202_143945_20100131_000000_20500101_000000	1	05-FEB-2010 00:05:36
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	05-FEB-2010 00:05:36
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-FEB-2010 00:05:36
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	05-FEB-2010 00:05:36
ECMWF_FILE	AUX_ECF_AXNECM20100204_062114_20100204_210000_20100205_090000	1	05-FEB-2010 00:05:36
ECMWF_FILE	AUX_ECF_AXNECM20100204_180848_20100205_030000_20100205_150000	33	05-FEB-2010 03:11:19
ECMWF_FILE	AUX_ECA_AXNECM20100205_060113_20100204_210000_20100205_090000	47	05-FEB-2010 04:51:54
ECMWF_FILE	AUX_ECF_AXNECM20100205_062114_20100205_210000_20100206_090000	64	05-FEB-2010 22:02:21
OPTIONAL_ECMWF_FILE	MISSING	1	05-FEB-2010 00:05:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100204_223205_000057382086_00344_41480_9707.N1	1	05-FEB-2010 00:05:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100205_001302_000054192086_00345_41481_9708.N1	3	05-FEB-2010 00:14:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100205_014840_000044632086_00346_41482_9709.N1	21	05-FEB-2010 01:55:03
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100204_234849_20100204_192410_20100214_205022	33	05-FEB-2010 03:11:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100205_044400_000057382086_00348_41484_9711.N1	47	05-FEB-2010 04:51:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100205_215445_000060572086_00358_41494_9712.N1	64	05-FEB-2010 22:02:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100205_234101_000057382086_00359_41495_9713.N1	77	05-FEB-2010 23:42:58

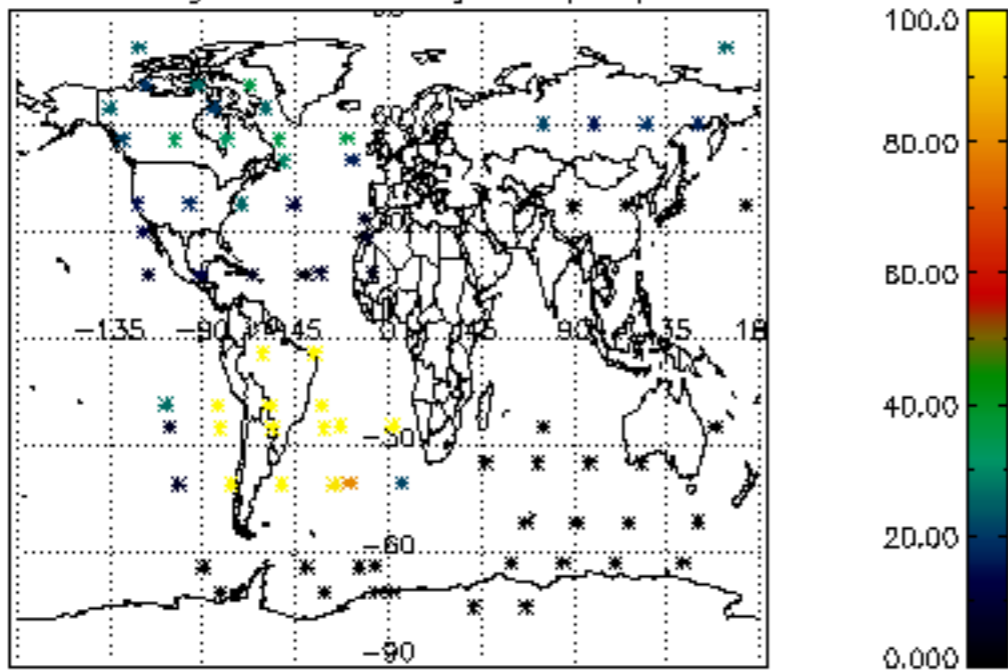




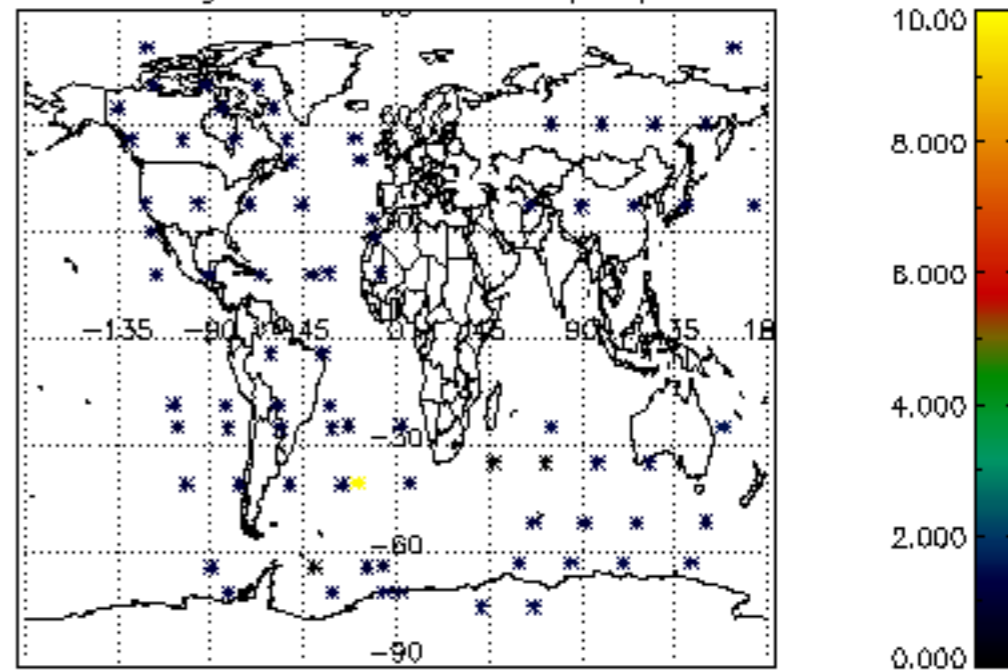




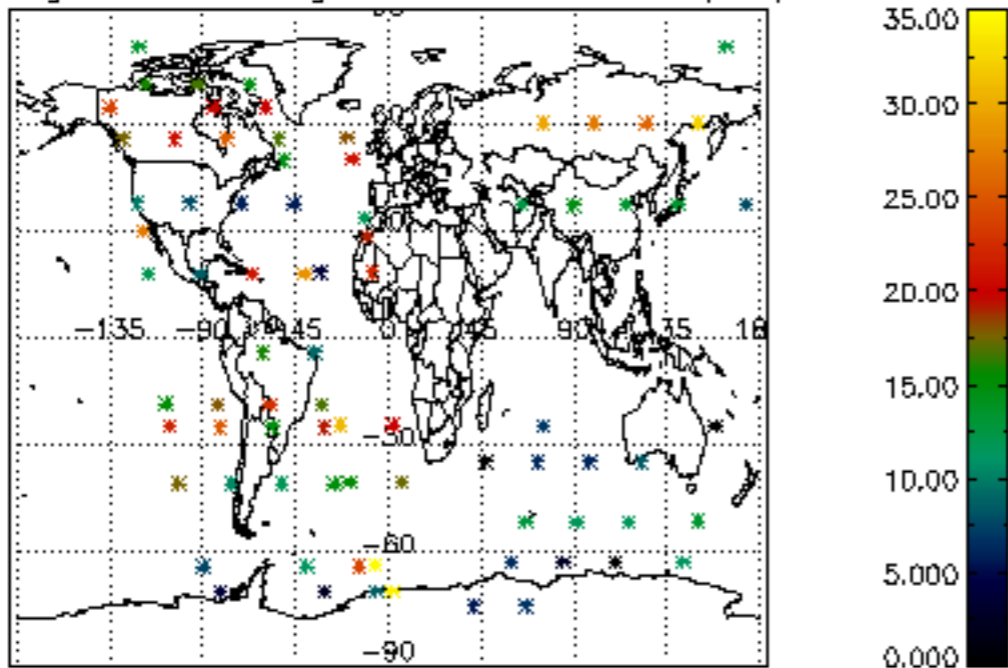
Percentage of cosmic ray hits per profile



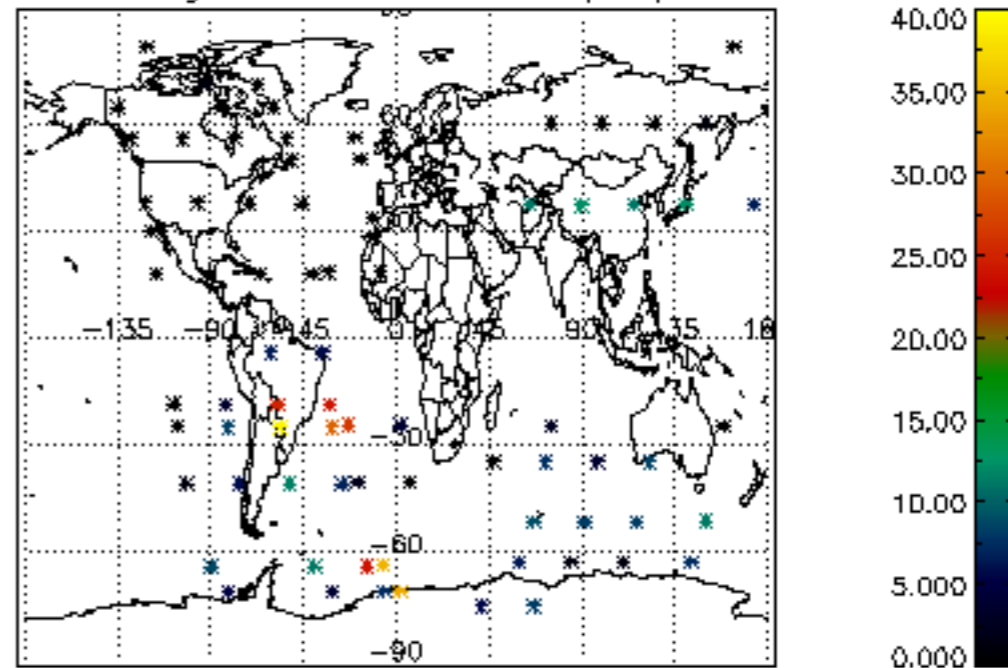
Percentage of datation errors per profile



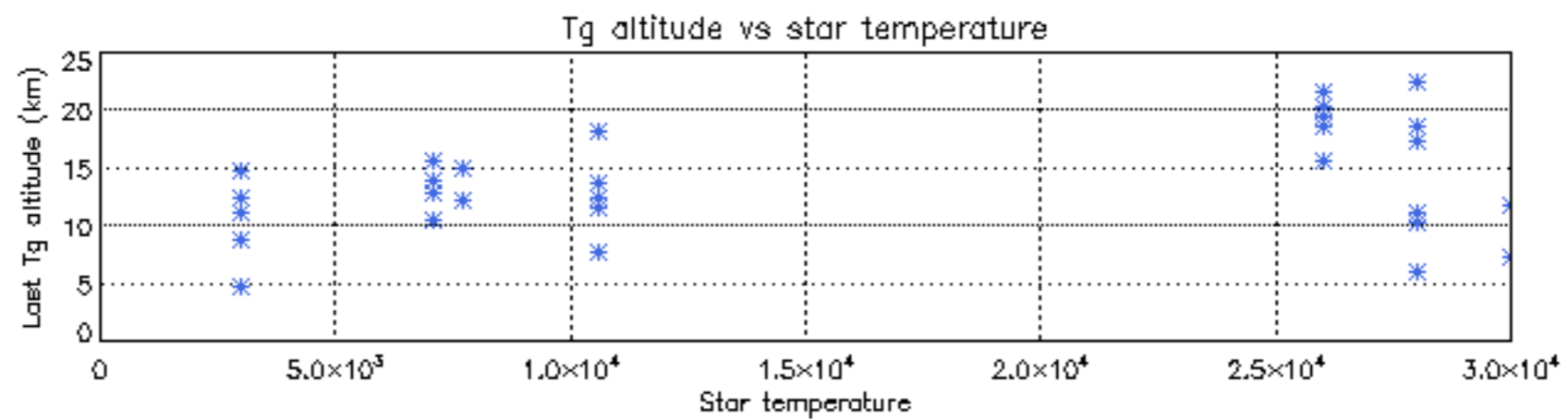
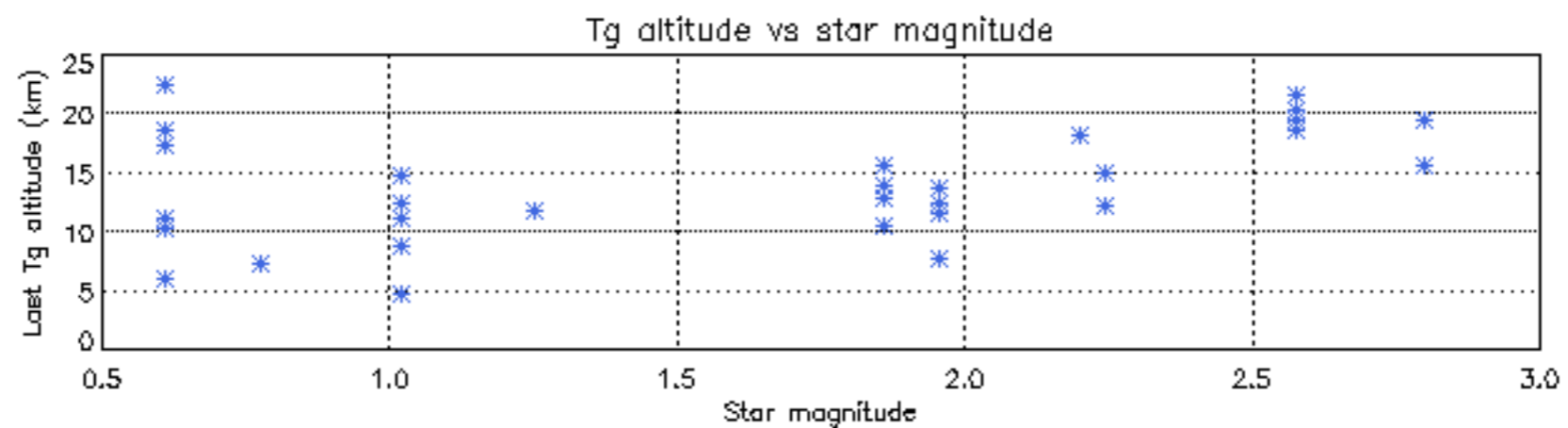
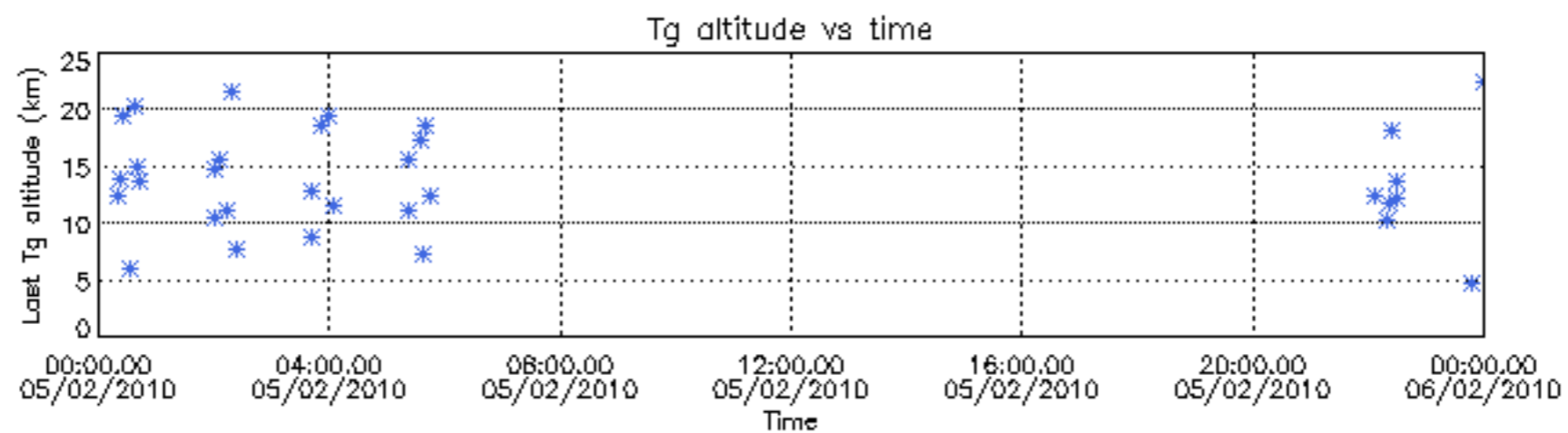
Percentage of star falling outside central band per profile



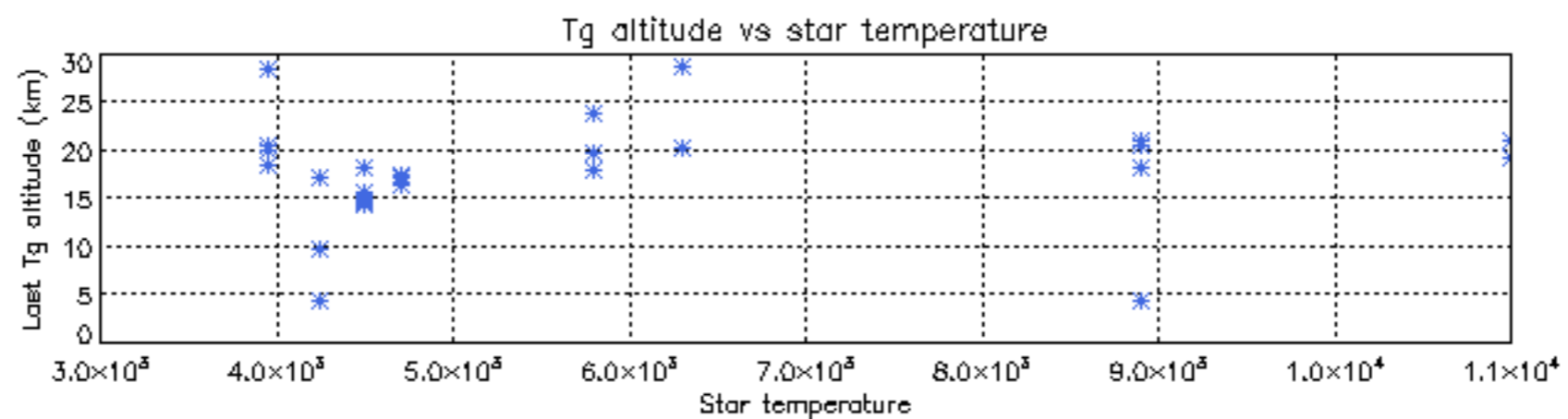
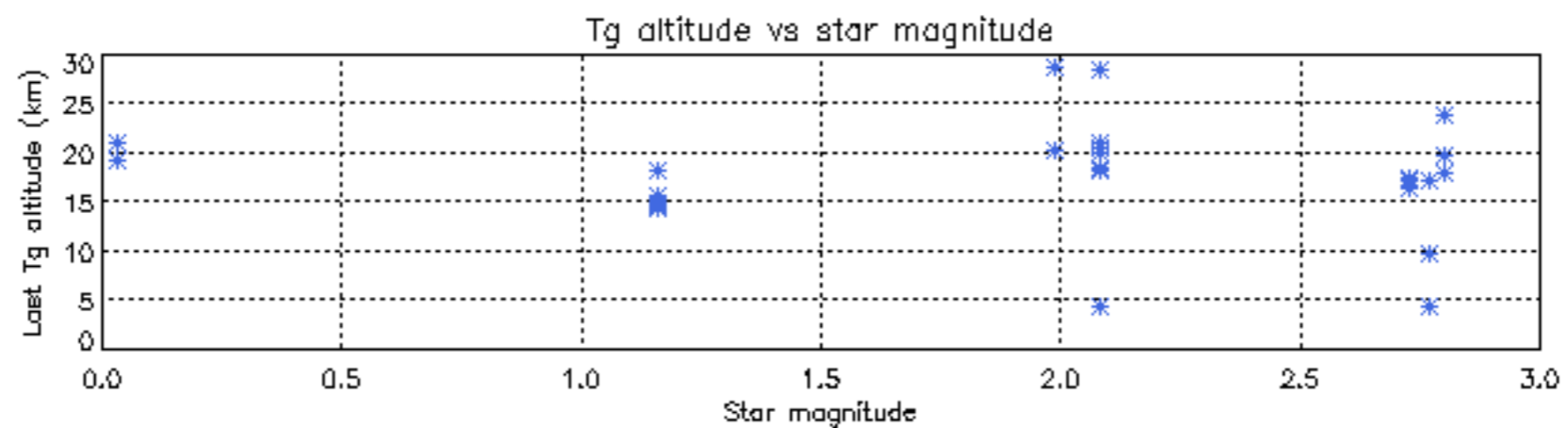
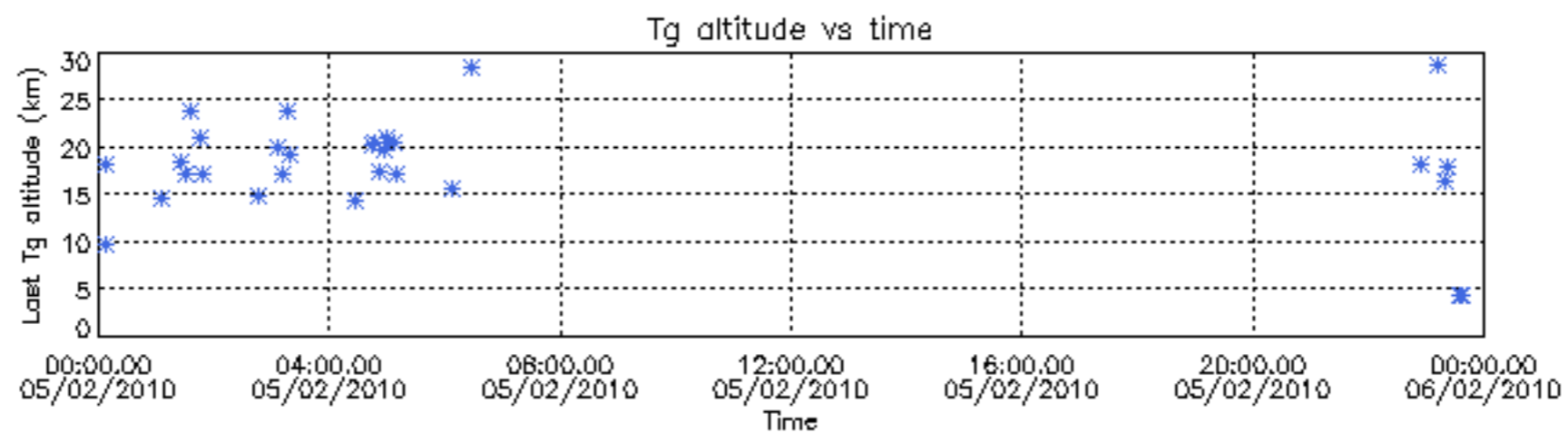
Percentage of saturation errors per profile

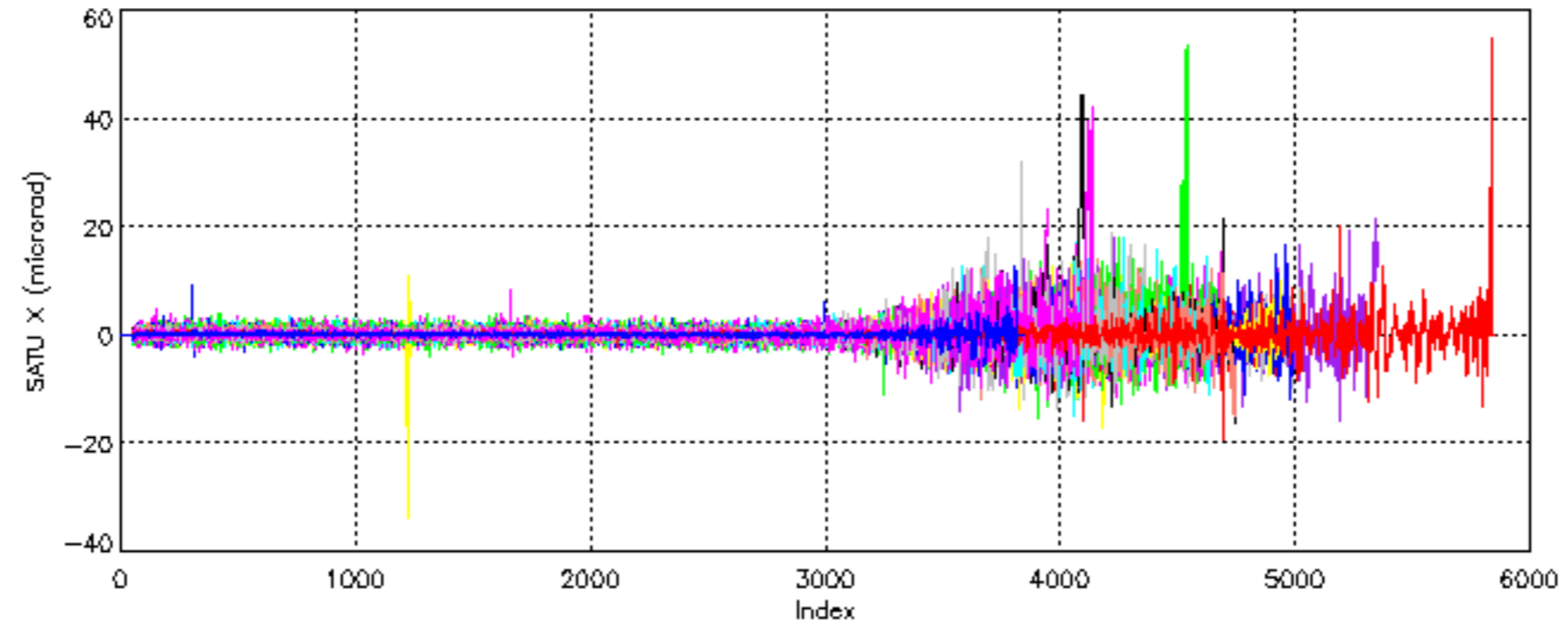


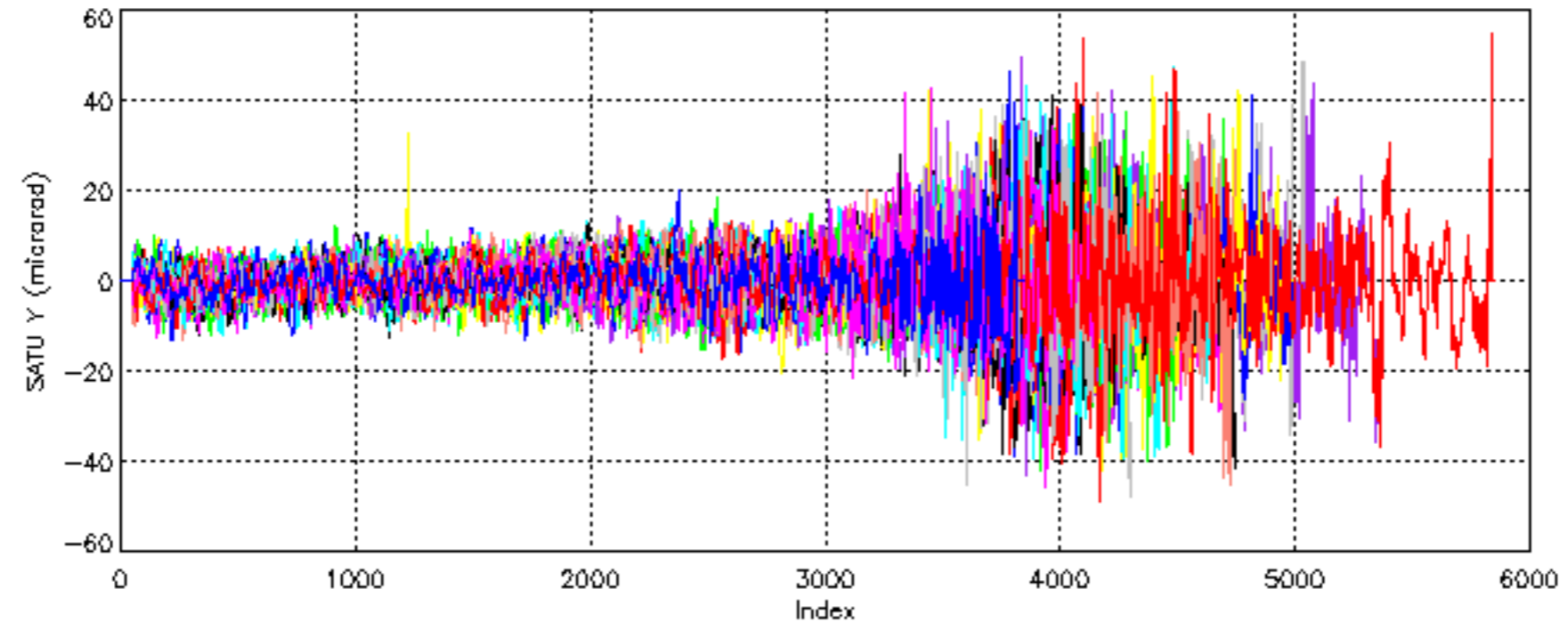
Tangent altitude at which the star is lost

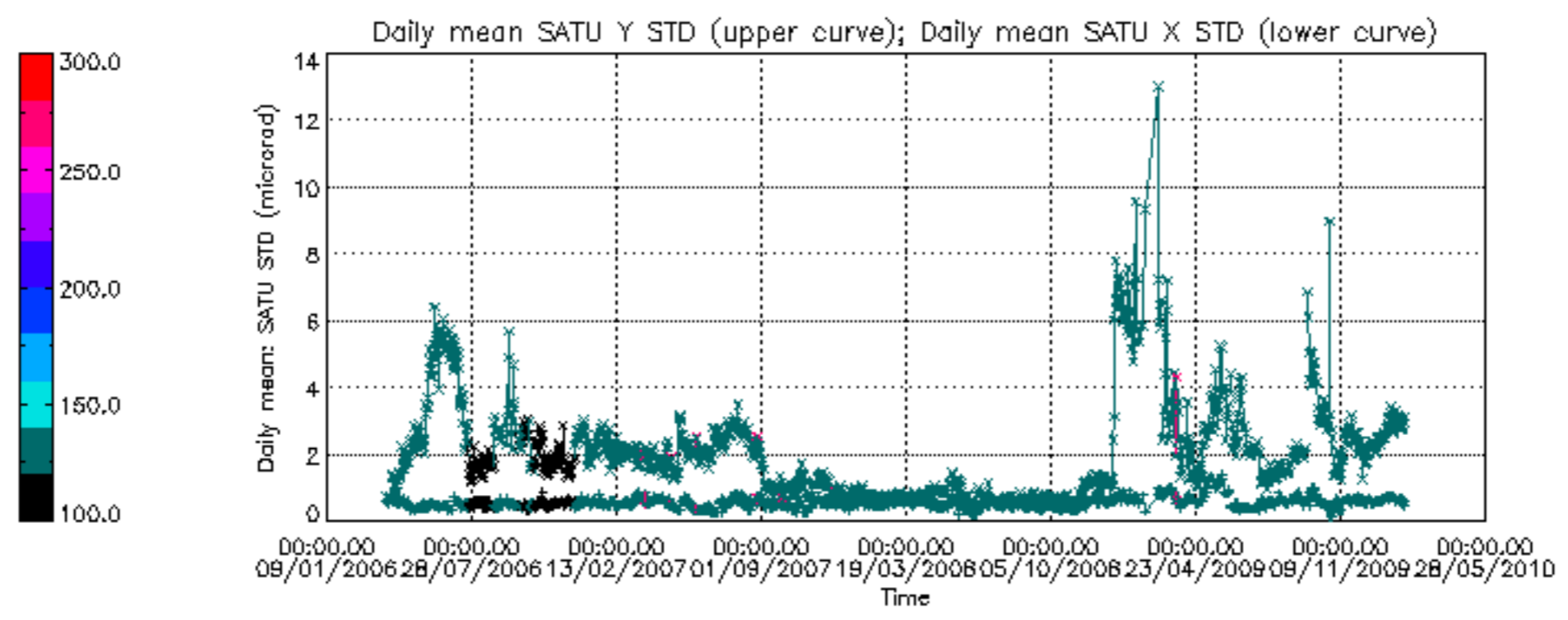


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100201_003952_000056972086_00288_41424_9421.N1

1; -718.0; 01-FEB-2010 00:39:52; Dark ; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 8;41424
 2; -463.4; 01-FEB-2010 00:44:06; Dark ; 49.0; 16; 21Alp Sco ; 1.02; 3000;occ; 98; 0;41424
 3; -116.1; 01-FEB-2010 00:49:54; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;41424
 4; 17.5; 01-FEB-2010 00:52:07; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;41425
 5; 106.9; 01-FEB-2010 00:53:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41425
 6; 194.7; 01-FEB-2010 00:55:04; Dark ; 49.0; 4; Alp1Cen ;-0.01; 5800;occ; 98; 0;41425
 7; 311.1; 01-FEB-2010 00:57:01; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;41425
 8; 470.4; 01-FEB-2010 00:59:40; Dark ; 50.0; 12; Alp1Cru ; 0.77; 30000;occ; 100; 0;41425
 9; 591.6; 01-FEB-2010 01:01:41; Dark ; 45.0; 99; Del Cen ; 2.58; 26000;occ; 90; 0;41425
 10; 708.5; 01-FEB-2010 01:03:38; Dark ; 42.0; 159; Ups Car ; 2.92; 7200;occ; 84; 0;41425
 11; 823.9; 01-FEB-2010 01:05:34; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;41425
 12; 928.5; 01-FEB-2010 01:07:18; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;41425
 13; 1080.0; 01-FEB-2010 01:09:50; Dark ; 38.5; 34; Gam2Vel ; 1.79; 23000;occ; 77; 0;41425
 14; 1205.0; 01-FEB-2010 01:11:55; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;41425
 15; 1467.4; 01-FEB-2010 01:16:17; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;41425
 16; 1992.9; 01-FEB-2010 01:25:03; Dark ; 45.0; 8; 10Alp CMi ; 0.40; 6500;occ; 90; 0;41425
 17; 2341.1; 01-FEB-2010 01:30:51; Bright; 38.0; 170; 27Eps Gem ; 3.00; 9700;occ; 76; 0;41425
 18; 2455.8; 01-FEB-2010 01:32:46; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;41425
 19; 3427.8; 01-FEB-2010 01:48:58; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;41425
 20; 3613.3; 01-FEB-2010 01:52:03; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41425
 21; 3896.6; 01-FEB-2010 01:56:46; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;41425
 22; 4087.0; 01-FEB-2010 01:59:57; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;41425
 23; 4304.9; 01-FEB-2010 02:03:35; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;41425
 24; 4797.7; 01-FEB-2010 02:11:48; Bright; 55.0; 59; 55Alp Oph ; 2.08; 8900;occ; 110; 0;41425
 25; 4925.7; 01-FEB-2010 02:13:55; Bright; 53.5; 126; 60Bet Oph ; 2.77; 4250;occ; 107; 0;41425

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100201_021425_000045462086_00289_41425_9422.N1

1; -1080.7; 01-FEB-2010 02:14:25; Bright; 54.0; 126; 60Bet Oph ; 2.77; 4250;occ; 108; 59;41425
 2; -721.4; 01-FEB-2010 02:20:24; Dark ; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 0;41425
 3; -462.6; 01-FEB-2010 02:24:43; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;41425
 4; -378.9; 01-FEB-2010 02:26:07; Dark ; 44.5; 158; 6Pi Sco ; 2.91; 28000;occ; 89; 0;41425
 5; -115.5; 01-FEB-2010 02:30:30; Dark ; 43.0; 131; Gam Lup ; 2.80; 26000;occ; 86; 0;41425
 6; 18.5; 01-FEB-2010 02:32:44; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;41426
 7; 107.6; 01-FEB-2010 02:34:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41426
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16; 1469.8; 01-FEB-2010 21:23:31; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;41437
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 14; 6005.4; 02-FEB-2010 10:23:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41444
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 16; 6314.7; 02-FEB-2010 10:28:27; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;41444
 17; 6517.0; 02-FEB-2010 10:31:49; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;41444
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 22; 6752.7; 02-FEB-2010 20:39:21; Dark ; 40.0; 159; Ups Car ; 2.92; 7200;occ; 80; 0;41450
 23; 6868.1; 02-FEB-2010 20:41:16; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;41450
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 31; 6522.3; 03-FEB-2010 03:17:54; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;41454
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 33; 6754.3; 03-FEB-2010 03:21:46; Dark ; 36.5; 159; Ups Car ; 2.92; 7200;occ; 73; 0;41454
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10; 559.4; 12-FEB-2010 23:43:31; Dark ; 48.5; 12; Alp1Cru ; 0.77; 30000;occ; 97; 0;41596
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13; 1132.8; 12-FEB-2010 23:53:05; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;41596
14; 1738.9; 13-FEB-2010 00:03:11; Dark ; 51.0; 48; 30Alp Hya ; 1.98; 4100;occ; 102; 0;41596
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16; 3429.9; 13-FEB-2010 00:31:22; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;41596
17; 3567.1; 13-FEB-2010 00:33:39; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;41596
18; 3858.0; 13-FEB-2010 00:38:30; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;41596
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21; 4325.4; 13-FEB-2010 00:46:17; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;41596
22; 4736.1; 13-FEB-2010 00:53:08; Bright; 33.5; 168; 17Zet Aql ; 2.99; 11000;occ; 67; 0;41596
23; 4857.8; 13-FEB-2010 00:55:10; Bright; 46.5; 59; 55Alp Oph ; 2.08; 8900;occ; 93; 0;41596
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3; 556.0; 12-FEB-2010 10:18:41; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;41588
4; 642.5; 12-FEB-2010 10:20:07; Dark ; 48.0; 64; Gam Cen ; 2.20; 10600;occ; 96; 0;41588
5; 931.7; 12-FEB-2010 10:24:56; Dark ; 36.5; 91; Kap Vel ; 2.49; 26000;occ; 73; 0;41588
6; 1130.6; 12-FEB-2010 10:28:15; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;41588
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2; 2005.0; 12-FEB-2010 10:42:50; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;41588
3; 2385.4; 12-FEB-2010 10:49:10; Bright; 39.5; 17; 78Bet Gem ; 1.16; 4500;occ; 79; 0;41588
4; 3430.0; 12-FEB-2010 11:06:35; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;41588
5; 3860.2; 12-FEB-2010 11:13:45; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;41588
6; 4078.7; 12-FEB-2010 11:17:23; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 0;41588
7; 4324.3; 12-FEB-2010 11:21:29; Bright; 39.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 78; 0;41588
8; 4734.6; 12-FEB-2010 11:28:19; Bright; 33.0; 168; 17Zet Aql ; 2.99; 11000;occ; 66; 0;41588
9; 4854.7; 12-FEB-2010 11:30:19; Bright; 45.5; 59; 55Alp Oph ; 2.08; 8900;occ; 91; 0;41588
10; 4988.6; 12-FEB-2010 11:32:33; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 0;41588
11; 5416.7; 12-FEB-2010 11:39:41; Dark ; 51.5; 86; 35Eta Oph ; 2.43; 10200;occ; 103; 0;41588
12; 5568.0; 12-FEB-2010 11:42:13; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;41588

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 14; 5767.1; 12-FEB-2010 11:45:32; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;41588
 15; 5875.2; 12-FEB-2010 11:47:20; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;41588
 16; 5963.6; 12-FEB-2010 11:48:48; Dark ; 49.5; 141; Bet Ara ; 2.84; 4600;occ; 99; 0;41588
 17; 6067.8; 12-FEB-2010 11:50:32; Dark ; 44.5; 131; Gam Lup ; 2.80; 26000;occ; 89; 0;41588
 18; 6263.1; 12-FEB-2010 11:53:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41588
 19; 6402.5; 12-FEB-2010 11:56:07; Dark ; 46.0; 10; Bet Cen ; 0.61; 28000;occ; 92; 0;41588
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 5; 3430.1; 12-FEB-2010 12:47:11; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;41589
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 7; 3860.0; 12-FEB-2010 12:54:21; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;41589
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 11; 4854.9; 12-FEB-2010 13:10:55; Bright; 62.0; 59; 55Alp Oph ; 2.08; 8900;occ; 124; 0;41589
 12; 4989.6; 12-FEB-2010 13:13:10; Bright; 48.0; 126; 60Bet Oph ; 2.77; 4250;occ; 96; 0;41589
 13; 5417.5; 12-FEB-2010 13:20:18; Dark ; 50.5; 86; 35Eta Oph ; 2.43; 10200;occ; 101; 0;41589
 14; 5568.5; 12-FEB-2010 13:22:49; Dark ; 44.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 89; 0;41589
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 18; 5963.8; 12-FEB-2010 13:29:24; Dark ; 37.5; 141; Bet Ara ; 2.84; 4600;occ; 75; 0;41589
 19; 6068.8; 12-FEB-2010 13:31:09; Dark ; 47.5; 131; Gam Lup ; 2.80; 26000;occ; 95; 0;41589
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 22; 6592.5; 12-FEB-2010 13:39:53; Dark ; 53.0; 12; Alp1Cru ; 0.77; 30000;occ; 106; 0;41589
 23; 6679.8; 12-FEB-2010 13:41:20; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41589
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 25; 7167.2; 12-FEB-2010 13:49:28; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;41589
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 12; 4989.7; 12-FEB-2010 14:53:46; Bright; 46.0; 126; 60Bet Oph ; 2.77; 4250;occ; 92; 0;41590
 13; 5418.5; 12-FEB-2010 15:00:55; Dark ; 50.5; 86; 35Eta Oph ; 2.43; 10200;occ; 101; 0;41590
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 22; 6680.8; 12-FEB-2010 15:21:57; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;41590
 23; 6968.3; 12-FEB-2010 15:26:45; Dark ; 38.0; 91; Kap Vel ; 2.49; 26000;occ; 76; 0;41590
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8; 4325.1; 12-FEB-2010 16:23:17; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;41591
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19; 6593.8; 12-FEB-2010 17:01:06; Dark ; 45.5; 12; Alp1Cru ; 0.77; 30000;occ; 91; 0;41591
20; 6681.7; 12-FEB-2010 17:02:34; Dark ; 49.5; 64; Gam Cen ; 2.20; 10600;occ; 99; 0;41591
21; 6968.9; 12-FEB-2010 17:07:21; Dark ; 40.0; 91; Kap Vel ; 2.49; 26000;occ; 80; 0;41591
22; 7167.7; 12-FEB-2010 17:10:40; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;41591

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3; 2385.7; 12-FEB-2010 17:31:34; Bright; 39.0; 17; 78Bet Gem ; 1.16; 4500;occ; 78; 0;41592
4; 3430.1; 12-FEB-2010 17:48:58; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;41592
5; 3568.0; 12-FEB-2010 17:51:16; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41592
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7; 4078.2; 12-FEB-2010 17:59:46; Bright; 58.0; 130; 23Bet Dra ; 2.80; 5800;occ; 116; 0;41592
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6; 5731.2; 17-FEB-2010 17:29:50; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;41663
7; 5811.3; 17-FEB-2010 17:31:10; Dark ; 52.0; 75; 26Eps Sco ; 2.29; 4250;occ; 104; 0;41663
8; 6103.7; 17-FEB-2010 17:36:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41663
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11; 6536.0; 17-FEB-2010 19:23:51; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;41664
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9; 6104.6; 17-FEB-2010 20:57:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41665
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5; 416.0; 18-FEB-2010 02:04:50; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;41669
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9; 938.8; 18-FEB-2010 02:13:33; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;41669
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5; 71.2; 18-FEB-2010 05:20:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41671
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9; 6541.9; 18-FEB-2010 08:48:44; Dark ; 44.5; 77; Eps Cen ; 2.30; 28000;occ; 89; 0;41672
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3; 4068.8; 18-FEB-2010 09:48:07; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;41673
4; 4332.3; 18-FEB-2010 09:52:30; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;41673
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7; 6108.6; 18-FEB-2010 10:22:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41673
8; 6375.7; 18-FEB-2010 10:26:34; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;41673
9; 6455.1; 18-FEB-2010 10:27:53; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;41673
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11; 6634.1; 18-FEB-2010 10:30:52; Dark ; 47.5; 12; Alp1Cru ; 0.77; 30000;occ; 95; 0;41673
12; 6744.7; 18-FEB-2010 10:32:43; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41673
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3; 4068.4; 18-FEB-2010 11:28:42; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41674
4; 4332.2; 18-FEB-2010 11:33:06; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41674

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9; 6455.5; 18-FEB-2010 12:08:29; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;41674
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3; 4068.4; 18-FEB-2010 13:09:18; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;41675
4; 4332.3; 18-FEB-2010 13:13:42; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;41675
5; 5738.6; 18-FEB-2010 13:37:08; Dark ; 51.0; 25; 35Lam Sco ; 1.62; 28000;occ; 102; 0;41675
6; 5821.9; 18-FEB-2010 13:38:32; Dark ; 55.0; 75; 26Eps Sco ; 2.29; 4250;occ; 110; 0;41675
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12; 6746.3; 18-FEB-2010 13:53:56; Dark ; 47.5; 64; Gam Cen ; 2.20; 10600;occ; 95; 0;41675
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3; 4068.4; 18-FEB-2010 14:49:54; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;41676
4; 4332.6; 18-FEB-2010 14:54:18; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;41676
5; 5739.4; 18-FEB-2010 15:17:45; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;41676
6; 5822.8; 18-FEB-2010 15:19:08; Dark ; 55.0; 75; 26Eps Sco ; 2.29; 4250;occ; 110; 0;41676
7; 6110.1; 18-FEB-2010 15:23:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41676
8; 6377.4; 18-FEB-2010 15:28:23; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41676
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3; 4068.3; 18-FEB-2010 16:30:30; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41677
4; 4332.7; 18-FEB-2010 16:34:54; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;41677
5; 5740.2; 18-FEB-2010 16:58:22; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;41677
6; 5823.6; 18-FEB-2010 16:59:45; Dark ; 50.0; 75; 26Eps Sco ; 2.29; 4250;occ; 100; 0;41677
7; 6111.3; 18-FEB-2010 17:04:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41677
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3; 4067.8; 18-FEB-2010 18:11:05; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 0;41678
4; 4332.5; 18-FEB-2010 18:15:30; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;41678
5; 5740.4; 18-FEB-2010 18:38:58; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;41678
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3; 422.7; 18-FEB-2010 20:31:32; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;41680
4; 511.0; 18-FEB-2010 20:33:01; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41680
5; 600.7; 18-FEB-2010 20:34:30; Dark ; 52.0; 12; Alp1Cru ; 0.77; 30000;occ; 104; 0;41680
6; 713.3; 18-FEB-2010 20:36:23; Dark ; 52.5; 64; Gam Cen ; 2.20; 10600;occ; 105; 0;41680
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8; 715.2; 19-FEB-2010 01:38:12; Dark ; 49.5; 64; Gam Cen ; 2.20; 10600;occ; 99; 0;41683
9; 944.8; 19-FEB-2010 01:42:02; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;41683
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13; 4333.0; 19-FEB-2010 02:38:30; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;41683
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3; -1702.7; 19-FEB-2010 04:19:06; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41684
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9; 514.9; 19-FEB-2010 04:56:04; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41685
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3; 3431.5; 19-FEB-2010 20:50:04; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;41694
4; 3536.8; 19-FEB-2010 20:51:49; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;41694
5; 4065.5; 19-FEB-2010 21:00:38; Bright; 44.5; 130; 23Bet Dra ; 2.80; 5800;occ; 89; 0;41694
6; 4333.5; 19-FEB-2010 21:05:06; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41694
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8; 431.9; 19-FEB-2010 21:40:40; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;41695
9; 607.9; 19-FEB-2010 21:43:36; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;41695
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5; 79.4; 19-FEB-2010 06:29:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41686
6; 346.6; 19-FEB-2010 06:33:52; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41686

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9; 6383.5; 19-FEB-2010 08:14:29; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41686
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14; 6982.7; 19-FEB-2010 08:24:28; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;41686
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7; 5832.7; 19-FEB-2010 09:45:54; Dark ; 61.0; 75; 26Eps Sco ; 2.29; 4250;occ; 122; 0;41687
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3; 4066.4; 19-FEB-2010 10:57:03; Bright; 44.5; 130; 23Bet Dra ; 2.80; 5800;occ; 89; 0;41688
4; 4333.4; 19-FEB-2010 11:01:30; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41688
5; 4757.1; 19-FEB-2010 11:08:34; Bright; 53.0; 168; 17Zet Aql ; 2.99; 11000;occ; 106; 0;41688
6; 5746.8; 19-FEB-2010 11:25:04; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;41688
7; 5833.5; 19-FEB-2010 11:26:30; Dark ; 56.0; 75; 26Eps Sco ; 2.29; 4250;occ; 112; 0;41688
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11; 6554.2; 19-FEB-2010 11:38:31; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41688
12; 6640.9; 19-FEB-2010 11:39:58; Dark ; 38.0; 12; Alp1Cru ; 0.77; 30000;occ; 76; 0;41688
13; 6755.6; 19-FEB-2010 11:41:53; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41688
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4; 4333.4; 19-FEB-2010 12:42:06; Bright; 45.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 91; 0;41689
5; 4757.7; 19-FEB-2010 12:49:10; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;41689
6; 5747.5; 19-FEB-2010 13:05:40; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;41689
7; 5834.7; 19-FEB-2010 13:07:07; Dark ; 55.5; 75; 26Eps Sco ; 2.29; 4250;occ; 111; 0;41689
8; 6117.3; 19-FEB-2010 13:11:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41689
9; 6385.2; 19-FEB-2010 13:16:18; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;41689
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12; 6756.3; 19-FEB-2010 13:22:29; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41689
13; 6983.7; 19-FEB-2010 13:26:17; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;41689
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 5; 4757.9; 19-FEB-2010 14:29:47; Bright; 35.5; 168; 17Zet Aql ; 2.99; 11000;occ; 71; 0;41690
 6; 5748.4; 19-FEB-2010 14:46:17; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;41690
 7; 5835.5; 19-FEB-2010 14:47:44; Dark ; 56.5; 75; 26Eps Sco ; 2.29; 4250;occ; 113; 0;41690
 8; 6117.9; 19-FEB-2010 14:52:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41690
 9; 6386.1; 19-FEB-2010 14:56:55; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41690
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 11; 6555.6; 19-FEB-2010 14:59:44; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;41690
 12; 6757.0; 19-FEB-2010 15:03:06; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41690
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 3; 4066.0; 19-FEB-2010 15:58:51; Bright; 44.5; 130; 23Bet Dra ; 2.80; 5800;occ; 89; 0;41691
 4; 4333.7; 19-FEB-2010 16:03:18; Bright; 42.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 85; 0;41691
 5; 4758.3; 19-FEB-2010 16:10:23; Bright; 52.5; 168; 17Zet Aql ; 2.99; 11000;occ; 105; 0;41691
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 7; 5836.4; 19-FEB-2010 16:28:21; Dark ; 51.0; 75; 26Eps Sco ; 2.29; 4250;occ; 102; 0;41691
 8; 6118.5; 19-FEB-2010 16:33:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41691
 9; 6244.5; 19-FEB-2010 16:35:09; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;41691
 10; 6386.4; 19-FEB-2010 16:37:31; Dark ; 45.0; 4; Alp1Cen ;-0.01; 5800;occ; 90; 0;41691
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 13; 6757.9; 19-FEB-2010 16:43:42; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;41691
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 3; 3431.7; 19-FEB-2010 17:28:52; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;41692
 4; 3537.4; 19-FEB-2010 17:30:38; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;41692
 5; 4065.9; 19-FEB-2010 17:39:26; Bright; 46.0; 130; 23Bet Dra ; 2.80; 5800;occ; 92; 0;41692
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 7; 4333.7; 19-FEB-2010 17:43:54; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41692
 8; 4758.5; 19-FEB-2010 17:50:59; Bright; 54.0; 168; 17Zet Aql ; 2.99; 11000;occ; 108; 0;41692
 9; 5334.4; 19-FEB-2010 18:00:35; Dark ; 42.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 84; 0;41692
 10; 5436.2; 19-FEB-2010 18:02:17; Dark ; 42.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 85; 0;41692
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 12; 5837.4; 19-FEB-2010 18:08:58; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;41692
 13; 6007.2; 19-FEB-2010 18:11:48; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;41692
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 3; 3431.5; 19-FEB-2010 19:09:28; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;41693
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 11; 5838.3; 19-FEB-2010 19:49:35; Dark ; 57.5; 75; 26Eps Sco ; 2.29; 4250;occ; 115; 0;41693
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 13; 6119.5; 19-FEB-2010 19:54:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41693
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6; 4760.8; 20-FEB-2010 10:37:01; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;41702
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3; 3532.9; 20-FEB-2010 16:58:56; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;41706
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13; 5814.9; 26-FEB-2010 02:43:05; Dark ; 45.0; 25; 35Lam Sco ; 1.62; 28000;occ; 90; 0;41783
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3; 2331.2; 26-FEB-2010 13:29:13; Bright; 40.0; 166; 17Eps Leo ; 2.98; 6000;occ; 80; 0;41790
4; 2844.4; 26-FEB-2010 13:37:46; Bright; 48.5; 174; 52Psi UMa ; 3.00; 4400;occ; 97; 0;41790

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7; 3505.3; 26-FEB-2010 13:48:47; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;41790
8; 3790.8; 26-FEB-2010 13:53:33; Bright; 44.5; 119; 14Eta Dra ; 2.73; 4700;occ; 89; 0;41790
9; 4046.9; 26-FEB-2010 13:57:49; Bright; 49.0; 130; 23Bet Dra ; 2.80; 5800;occ; 98; 0;41790
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11; 4339.8; 26-FEB-2010 14:02:42; Bright; 39.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 78; 0;41790
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13; 5116.2; 26-FEB-2010 14:15:38; Dark ; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;41790
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23; 6745.2; 26-FEB-2010 14:42:47; Dark ; 49.0; 26; Gam Cru ; 1.62; 2900;occ; 98; 0;41790
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4; 2843.7; 26-FEB-2010 15:18:21; Bright; 68.0; 174; 52Psi UMa ; 3.00; 4400;occ; 136; 0;41791
5; 3001.1; 26-FEB-2010 15:20:59; Bright; 41.5; 82; 48Bet UMA ; 2.37; 10600;occ; 83; 0;41791
6; 3088.4; 26-FEB-2010 15:22:26; Bright; 39.0; 87; 64Gam UMA ; 2.43; 11000;occ; 78; 0;41791
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8; 3790.4; 26-FEB-2010 15:34:08; Bright; 45.5; 119; 14Eta Dra ; 2.73; 4700;occ; 91; 0;41791
9; 4046.7; 26-FEB-2010 15:38:25; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 0;41791
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4; 2843.0; 26-FEB-2010 16:58:57; Bright; 47.0; 174; 52Psi UMa ; 3.00; 4400;occ; 94; 0;41792
5; 3000.7; 26-FEB-2010 17:01:35; Bright; 62.0; 82; 48Bet UMA ; 2.37; 10600;occ; 124; 0;41792
6; 3087.7; 26-FEB-2010 17:03:02; Bright; 43.0; 87; 64Gam UMA ; 2.43; 11000;occ; 86; 0;41792
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9; 4046.6; 26-FEB-2010 17:19:00; Bright; 46.0; 130; 23Bet Dra ; 2.80; 5800;occ; 92; 0;41792
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