GOMOS Daily Report 24-MAR-2010

Level 0 and Level 1 products

SUMMARY

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   - 7.1 SATU plots (dark limb): 'X' and 'Y' axis
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       - 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

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1. General Info

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.

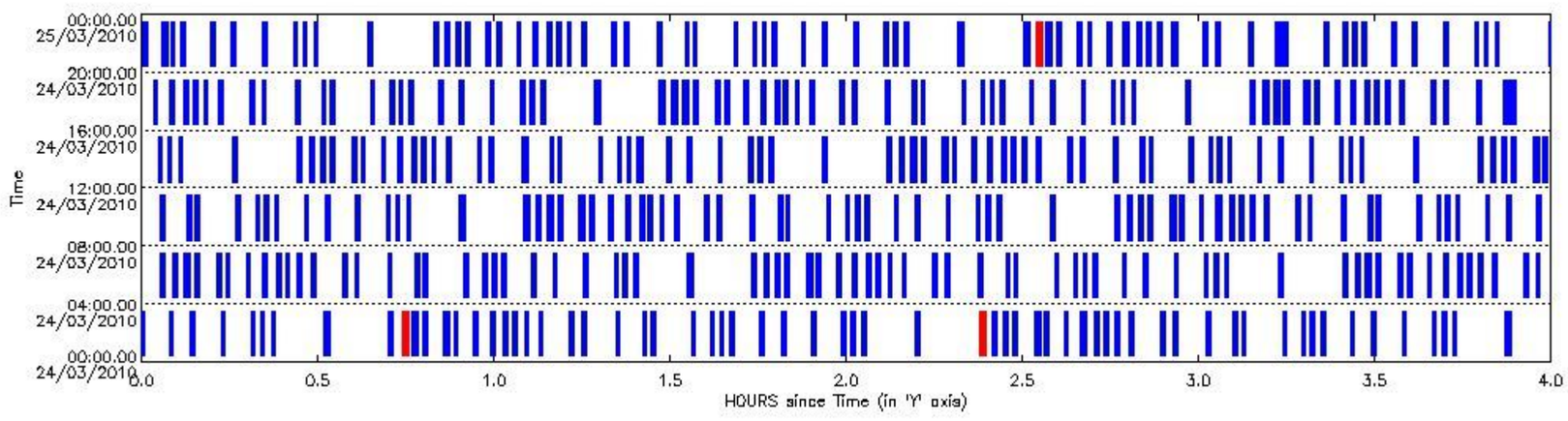
Item	Value
Time of report generation	27MAR2010 04:53:37
Data source version	GOMOS/5.00L04
Start time of products	24MAR2010 00:04:39
Stop time of products	24MAR2010 23:59:33
Store outputs in DB	Yes
Nb of level 1b prods	151
Nb of prods with errors	0

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
24-MAR-2010 00:44:14	34SigSgr	57	42154
24-MAR-2010 02:22:42	41PiSgr	155	42155
24-MAR-2010 22:32:15	34SigSgr	57	42167

2.4 Summary of processed GOM_TRA_1P products

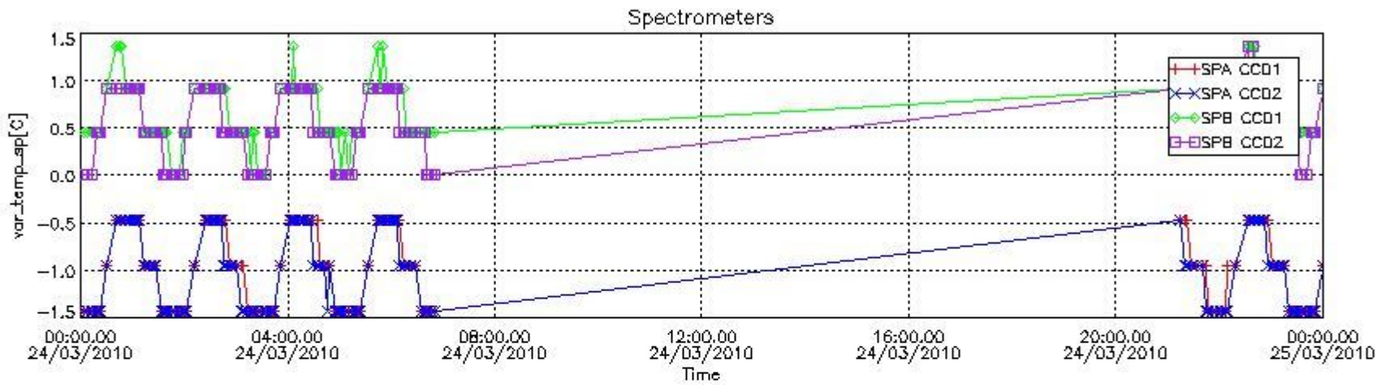
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100324_000439_000000402088_00016_42154_8704.N1	24-MAR-2010 00:04:39	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	42154	No
2	GOM_TRA_1PNPDE20100324_000812_000000462088_00016_42154_8705.N1	24-MAR-2010 00:08:12	Bright	45.500	119	14Eta Dra	2.7270	4700.0	91	42154	No
3	GOM_TRA_1PNPDE20100324_001326_000000382088_00016_42154_8706.N1	24-MAR-2010 00:13:26	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	42154	No
4	GOM_TRA_1PNPDE20100324_001835_000000372088_00016_42154_8707.N1	24-MAR-2010 00:18:35	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	42154	No
5	GOM_TRA_1PNPDE20100324_002011_000000422088_00016_42154_8708.N1	24-MAR-2010 00:20:11	Bright	42.000	66	37Gam Cyg	2.2080	5900.0	84	42154	No
6	GOM_TRA_1PNPDE20100324_002202_000000412088_00016_42154_8709.N1	24-MAR-2010 00:22:02	Bright	40.500	92	53Eps Cyg	2.5000	4500.0	81	42154	No
7	GOM_TRA_1PNPDE20100324_003102_000000582088_00016_42154_8710.N1	24-MAR-2010 00:31:02	Twi_and_stray	57.500	11	53Alp Aql	0.76500	8000.0	115	42154	No
8	GOM_TRA_1PNPDE20100324_004159_000000492088_00016_42154_8710.N1	24-MAR-2010 00:41:59	Dark	49.000	155	41Pi Sgr	2.9000	6600.0	98	42154	No

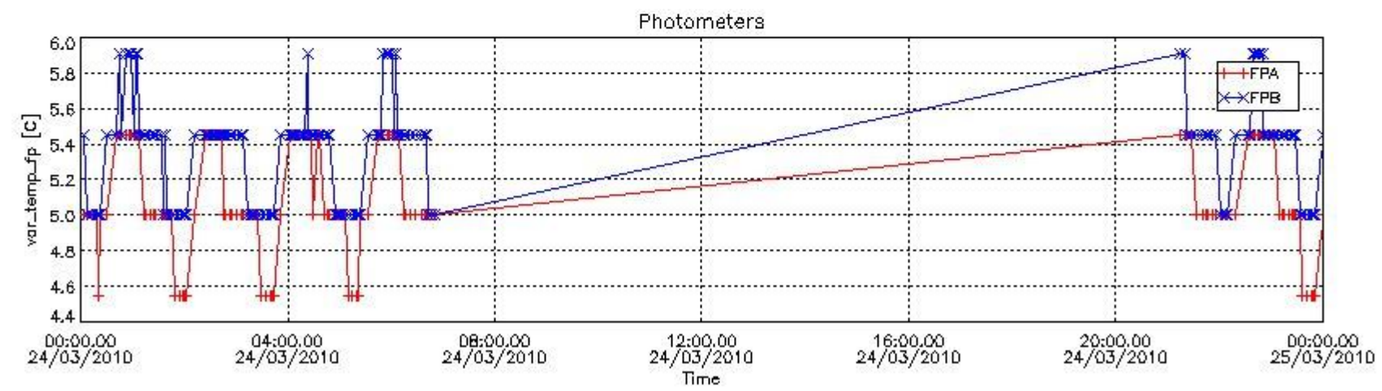
9	GOM_TRA_1PNPDE20100324_004557_000000592088_00016_42154_8711.N1	24-MAR-2010 00:45:57	Dark	59.000	137	22Lam Sgr	2.8240	4400.0	118	42154	No
10	GOM_TRA_1PNPDE20100324_004743_000000552088_00016_42154_8712.N1	24-MAR-2010 00:47:43	Dark	55.000	38	20Eps Sgr	1.8360	11000.	110	42154	No
11	GOM_TRA_1PNPDE20100324_005306_000000412088_00017_42155_8713.N1	24-MAR-2010 00:53:06	Dark	40.500	141	Bet Ara	2.8400	4600.0	81	42155	No
12	GOM_TRA_1PNPDE20100324_005631_000000382088_00017_42155_8714.N1	24-MAR-2010 00:56:31	Dark	37.500	134	Bet TrA	2.8100	6600.0	75	42155	No
13	GOM_TRA_1PNPDE20100324_005914_000000562088_00017_42155_8715.N1	24-MAR-2010 00:59:14	Dark	56.000	4	Alp1Cen	-0.010000	5800.0	112	42155	No
14	GOM_TRA_1PNPDE20100324_010137_000000462088_00017_42155_8716.N1	24-MAR-2010 01:01:37	Straylight	45.500	78	Alp Lup	2.3040	28000.	91	42155	No
15	GOM_TRA_1PNPDE20100324_010311_000000492088_00017_42155_8717.N1	24-MAR-2010 01:03:11	Straylight	48.500	81	Eta Cen	2.3560	28000.	97	42155	No
16	GOM_TRA_1PNPDE20100324_010511_000000412088_00017_42155_8718.N1	24-MAR-2010 01:05:11	Straylight	41.000	64	Gam Cen	2.2000	10600.	82	42155	No
17	GOM_TRA_1PNPDE20100324_010735_000000452088_00017_42155_8719.N1	24-MAR-2010 01:07:35	Straylight	45.000	123	Iot Cen	2.7500	10200.	90	42155	No
18	GOM_TRA_1PNPDE20100324_011252_000000502088_00017_42155_8720.N1	24-MAR-2010 01:12:52	Straylight	49.500	106	9Bet Crv	2.6480	5600.0	99	42155	No
19	GOM_TRA_1PNPDE20100324_011459_000000482088_00017_42155_8721.N1	24-MAR-2010 01:14:59	Twi_and_stray	47.500	100	4Gam Crv	2.5800	13100.	95	42155	No
20	GOM_TRA_1PNPDE20100324_012041_000000332088_00017_42155_8722.N1	24-MAR-2010 01:20:41	Twi_and_stray	33.000	121	29Gam Vir	2.7400	7200.0	66	42155	No
21	GOM_TRA_1PNPDE20100324_012518_000000432088_00017_42155_8723.N1	24-MAR-2010 01:25:18	Bright	42.500	62	94Bet Leo	2.1360	9700.0	85	42155	No
22	GOM_TRA_1PNPDE20100324_012642_000000402088_00017_42155_8724.N1	24-MAR-2010 01:26:42	Bright	40.000	96	68Del Leo	2.5600	9300.0	80	42155	No
23	GOM_TRA_1PNPDE20100324_013339_000000382088_00017_42155_8725.N1	24-MAR-2010 01:33:39	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	42155	No
24	GOM_TRA_1PNPDE20100324_013656_000000352088_00017_42155_8726.N1	24-MAR-2010 01:36:56	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	42155	No
25	GOM_TRA_1PNPDE20100324_013827_000000362088_00017_42155_8727.N1	24-MAR-2010 01:38:27	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	42155	No
26	GOM_TRA_1PNPDE20100324_014012_000000462088_00017_42155_8728.N1	24-MAR-2010 01:40:12	Bright	45.500	55	79Zet UMa	2.0600	10200.	91	42155	No
27	GOM_TRA_1PNPDE20100324_014514_000000382088_00017_42155_8729.N1	24-MAR-2010 01:45:14	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	42155	No
28	GOM_TRA_1PNPDE20100324_014847_000000512088_00017_42155_8730.N1	24-MAR-2010 01:48:47	Bright	50.500	119	14Eta Dra	2.7270	4700.0	101	42155	No
29	GOM_TRA_1PNPDE20100324_015402_000000532088_00017_42155_8731.N1	24-MAR-2010 01:54:02	Bright	53.000	89	5Alp Cep	2.4510	8000.0	106	42155	No
30	GOM_TRA_1PNPDE20100324_015911_000000442088_00017_42155_8732.N1	24-MAR-2010 01:59:11	Bright	43.500	19	50Alp Cyg	1.2460	10500.	87	42155	No
31	GOM_TRA_1PNPDE20100324_020047_000000392088_00017_42155_8733.N1	24-MAR-2010 02:00:47	Bright	39.000	66	37Gam Cyg	2.2080	5900.0	78	42155	No
32	GOM_TRA_1PNPDE20100324_020238_000000392088_00017_42155_8734.N1	24-MAR-2010 02:02:38	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	42155	No
33	GOM_TRA_1PNPDE20100324_021139_000000572088_00017_42155_8735.N1	24-MAR-2010 02:11:39	Twi_and_stray	57.000	11	53Alp Aql	0.76500	8000.0	114	42155	No
34	GOM_TRA_1PNPDE20100324_022444_000000492088_00017_42155_8730.N1	24-MAR-2010 02:24:44	Dark	49.000	57	34Sig Sgr	2.0660	26000.	98	42155	No
35	GOM_TRA_1PNPDE20100324_022634_000000562088_00017_42155_8731.N1	24-MAR-2010 02:26:34	Dark	55.500	137	22Lam Sgr	2.8240	4400.0	111	42155	No
36	GOM_TRA_1PNPDE20100324_022820_000000532088_00017_42155_8732.N1	24-MAR-2010 02:28:20	Dark	53.000	38	20Eps Sgr	1.8360	11000.	106	42155	No
37	GOM_TRA_1PNPDE20100324_023343_000000422088_00018_42156_8733.N1	24-MAR-2010 02:33:43	Dark	41.500	141	Bet Ara	2.8400	4600.0	83	42156	No
38	GOM_TRA_1PNPDE20100324_023708_000000402088_00018_42156_8734.N1	24-MAR-2010 02:37:08	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	42156	No
39	GOM_TRA_1PNPDE20100324_023951_000000562088_00018_42156_8735.N1	24-MAR-2010 02:39:51	Dark	55.500	4	Alp1Cen	-0.010000	5800.0	111	42156	No
40	GOM_TRA_1PNPDE20100324_024214_000000452088_00018_42156_8736.N1	24-MAR-2010 02:42:14	Straylight	45.000	78	Alp Lup	2.3040	28000.	90	42156	No
41	GOM_TRA_1PNPDE20100324_024347_000000502088_00018_42156_8737.N1	24-MAR-2010 02:43:47	Straylight	50.000	81	Eta Cen	2.3560	28000.	100	42156	No
42	GOM_TRA_1PNPDE20100324_024547_000000432088_00018_42156_8738.N1	24-MAR-2010 02:45:47	Straylight	43.000	64	Gam Cen	2.2000	10600.	86	42156	No
43	GOM_TRA_1PNPDE20100324_024811_000000492088_00018_42156_8739.N1	24-MAR-2010 02:48:11	Straylight	48.500	123	Iot Cen	2.7500	10200.	97	42156	No
44	GOM_TRA_1PNPDE20100324_025328_000000522088_00018_42156_8740.N1	24-MAR-2010 02:53:28	Straylight	51.500	106	9Bet Crv	2.6480	5600.0	103	42156	No
45	GOM_TRA_1PNPDE20100324_025535_000000452088_00018_42156_8741.N1	24-MAR-2010 02:55:35	Twi_and_stray	45.000	100	4Gam Crv	2.5800	13100.	90	42156	No
46	GOM_TRA_1PNPDE20100324_030116_000000402088_00018_42156_8742.N1	24-MAR-2010 03:01:16	Bright	40.000	121	29Gam Vir	2.7400	7200.0	80	42156	No
47	GOM_TRA_1PNPDE20100324_030554_000000432088_00018_42156_8743.N1	24-MAR-2010 03:05:54	Bright	43.000	62	94Bet Leo	2.1360	9700.0	86	42156	No
48	GOM_TRA_1PNPDE20100324_030718_000000402088_00018_42156_8744.N1	24-MAR-2010 03:07:18	Bright	39.500	96	68Del Leo	2.5600	9300.0	79	42156	No
49	GOM_TRA_1PNPDE20100324_031415_000000412088_00018_42156_8745.N1	24-MAR-2010 03:14:15	Bright	40.500	174	52Psi UMa	3.0040	4400.0	81	42156	No
50	GOM_TRA_1PNPDE20100324_031732_000000362088_00018_42156_8746.N1	24-MAR-2010 03:17:32	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	42156	No
51	GOM_TRA_1PNPDE20100324_031903_000000372088_00018_42156_8747.N1	24-MAR-2010 03:19:03	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	42156	No
52	GOM_TRA_1PNPDE20100324_032046_000000462088_00018_42156_8748.N1	24-MAR-2010 03:20:46	Bright	46.000	55	79Zet UMa	2.0600	10200.	92	42156	No
53	GOM_TRA_1PNPDE20100324_032550_000000392088_00018_42156_8749.N1	24-MAR-2010 03:25:50	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	42156	No
54	GOM_TRA_1PNPDE20100324_032923_000000492088_00018_42156_8761.N1	24-MAR-2010 03:29:23	Bright	49.000	119	14Eta Dra	2.7270	4700.0	98	42156	No
55	GOM_TRA_1PNPDE20100324_033438_000000372088_00018_42156_8762.N1	24-MAR-2010 03:34:38	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	42156	No
56	GOM_TRA_1PNPDE20100324_033947_000000372088_00018_42156_8763.N1	24-MAR-2010 03:39:47	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	42156	No
57	GOM_TRA_1PNPDE20100324_034123_000000452088_00018_42156_8764.N1	24-MAR-2010 03:41:23	Bright	45.000	66	37Gam Cyg	2.2080	5900.0	90	42156	No
58	GOM_TRA_1PNPDE20100324_034314_000000392088_00018_42156_8765.N1	24-MAR-2010 03:43:14	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	42156	No
59	GOM_TRA_1PNPDE20100324_035215_000000542088_00018_42156_8766.N1	24-MAR-2010 03:52:15	Twi_and_stray	54.000	11	53Alp Aql	0.76500	8000.0	108	42156	No
60	GOM_TRA_1PNPDE20100324_040313_000000502088_00018_42156_8767.N1	24-MAR-2010 04:03:13	Dark	49.500	155	41Pi Sgr	2.9000	6600.0	99	42156	No
61	GOM_TRA_1PNPDE20100324_040522_000000492088_00018_42156_8768.N1	24-MAR-2010 04:05:22	Dark	48.500	57	34Sig Sgr	2.0660	26000.	97	42156	No
62	GOM_TRA_1PNPDE20100324_040711_000000532088_00018_42156_8769.N1	24-MAR-2010 04:07:11	Dark	53.000	137	22Lam Sgr	2.8240	4400.0	106	42156	No
63	GOM_TRA_1PNPDE20100324_040857_000000582088_00018_42156_8770.N1	24-MAR-2010 04:08:57	Dark	57.500	38	20Eps Sgr	1.8360	11000.	115	42156	No
64	GOM_TRA_1PNPDE20100324_041419_000000422088_00019_42157_8771.N1	24-MAR-2010 04:14:19	Dark	41.500	141	Bet Ara	2.8400	4600.0	83	42157	No
65	GOM_TRA_1PNPDE20100324_041744_000000392088_00019_42157_8772.N1	24-MAR-2010 04:17:44	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	42157	No
66	GOM_TRA_1PNPDE20100324_042027_000000562088_00019_42157_8773.N1	24-MAR-2010 04:20:27	Dark	55.500	4	Alp1Cen	-0.010000	5800.0	111	42157	No
67	GOM_TRA_1PNPDE20100324_042251_000000462088_00019_42157_8774.N1	24-MAR-2010 04:22:51	Straylight	45.500	78	Alp Lup	2.3040	28000.	91	42157	No

68	GOM_TRA_1PNPDE20100324_042424_000000482088_00019_42157_8775.N1	24-MAR-2010 04:24:24	Straylight	48.000	81	Eta Cen	2.3560	28000.	96	42157	No
69	GOM_TRA_1PNPDE20100324_042624_000000422088_00019_42157_8776.N1	24-MAR-2010 04:26:24	Straylight	41.500	64	Gam Cen	2.2000	10600.	83	42157	No
70	GOM_TRA_1PNPDE20100324_042848_000000492088_00019_42157_8777.N1	24-MAR-2010 04:28:48	Straylight	48.500	123	Iot Cen	2.7500	10200.	97	42157	No
71	GOM_TRA_1PNPDE20100324_043405_000000512088_00019_42157_8778.N1	24-MAR-2010 04:34:05	Straylight	51.000	106	9Bet Crv	2.6480	5600.0	102	42157	No
72	GOM_TRA_1PNPDE20100324_043611_000000482088_00019_42157_8779.N1	24-MAR-2010 04:36:11	Twi_and_stray	48.000	100	4Gam Crv	2.5800	13100.	96	42157	No
73	GOM_TRA_1PNPDE20100324_044153_000000402088_00019_42157_8780.N1	24-MAR-2010 04:41:53	Bright	40.000	121	29Gam Vir	2.7400	7200.0	80	42157	No
74	GOM_TRA_1PNPDE20100324_044630_000000432088_00019_42157_8781.N1	24-MAR-2010 04:46:30	Bright	42.500	62	94Bet Leo	2.1360	9700.0	85	42157	No
75	GOM_TRA_1PNPDE20100324_044754_000000392088_00019_42157_8782.N1	24-MAR-2010 04:47:54	Bright	38.500	96	68Del Leo	2.5600	9300.0	77	42157	No
76	GOM_TRA_1PNPDE20100324_045450_000000392088_00019_42157_8783.N1	24-MAR-2010 04:54:50	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	42157	No
77	GOM_TRA_1PNPDE20100324_045808_000000372088_00019_42157_8784.N1	24-MAR-2010 04:58:08	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	42157	No
78	GOM_TRA_1PNPDE20100324_045939_000000462088_00019_42157_8785.N1	24-MAR-2010 04:59:39	Bright	46.000	36	50Alp UMa	1.8000	6300.0	92	42157	No
79	GOM_TRA_1PNPDE20100324_050122_000000462088_00019_42157_8786.N1	24-MAR-2010 05:01:22	Bright	46.000	55	79Zet UMa	2.0600	10200.	92	42157	No
80	GOM_TRA_1PNPDE20100324_050625_000000412088_00019_42157_8787.N1	24-MAR-2010 05:06:25	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	42157	No
81	GOM_TRA_1PNPDE20100324_050958_000000462088_00019_42157_8788.N1	24-MAR-2010 05:09:58	Bright	46.000	119	14Eta Dra	2.7270	4700.0	92	42157	No
82	GOM_TRA_1PNPDE20100324_051514_000000472088_00019_42157_8782.N1	24-MAR-2010 05:15:14	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	42157	No
83	GOM_TRA_1PNPDE20100324_052023_000000392088_00019_42157_8783.N1	24-MAR-2010 05:20:23	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	42157	No
84	GOM_TRA_1PNPDE20100324_052159_000000402088_00019_42157_8784.N1	24-MAR-2010 05:21:59	Bright	39.500	66	37Gam Cyg	2.2080	5900.0	79	42157	No
85	GOM_TRA_1PNPDE20100324_052350_000000392088_00019_42157_8785.N1	24-MAR-2010 05:23:50	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	42157	No
86	GOM_TRA_1PNPDE20100324_053252_000000612088_00019_42157_8786.N1	24-MAR-2010 05:32:52	Twi_and_stray	61.000	11	53Alp Aql	0.76500	8000.0	122	42157	No
87	GOM_TRA_1PNPDE20100324_054350_000000522088_00019_42157_8787.N1	24-MAR-2010 05:43:50	Dark	51.500	155	41Pi Sgr	2.9000	6600.0	103	42157	No
88	GOM_TRA_1PNPDE20100324_054558_000000522088_00019_42157_8788.N1	24-MAR-2010 05:45:58	Dark	51.500	57	34Sig Sgr	2.0660	26000.	103	42157	No
89	GOM_TRA_1PNPDE20100324_054749_000000572088_00019_42157_8789.N1	24-MAR-2010 05:47:49	Dark	56.500	137	22Lam Sgr	2.8240	4400.0	113	42157	No
90	GOM_TRA_1PNPDE20100324_054934_000000502088_00019_42157_8790.N1	24-MAR-2010 05:49:34	Dark	49.500	38	20Eps Sgr	1.8360	11000.	99	42157	No
91	GOM_TRA_1PNPDE20100324_055456_000000402088_00020_42158_8791.N1	24-MAR-2010 05:54:56	Dark	40.000	141	Bet Ara	2.8400	4600.0	80	42158	No
92	GOM_TRA_1PNPDE20100324_055821_000000402088_00020_42158_8792.N1	24-MAR-2010 05:58:21	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	42158	No
93	GOM_TRA_1PNPDE20100324_060104_000000442088_00020_42158_8793.N1	24-MAR-2010 06:01:04	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	42158	No
94	GOM_TRA_1PNPDE20100324_060327_000000502088_00020_42158_8794.N1	24-MAR-2010 06:03:27	Straylight	50.000	78	Alp Lup	2.3040	28000.	100	42158	No
95	GOM_TRA_1PNPDE20100324_060501_000000542088_00020_42158_8795.N1	24-MAR-2010 06:05:01	Straylight	53.500	81	Eta Cen	2.3560	28000.	107	42158	No
96	GOM_TRA_1PNPDE20100324_060700_000000432088_00020_42158_8796.N1	24-MAR-2010 06:07:00	Straylight	43.000	64	Gam Cen	2.2000	10600.	86	42158	No
97	GOM_TRA_1PNPDE20100324_060925_000000452088_00020_42158_8797.N1	24-MAR-2010 06:09:25	Straylight	45.000	123	Iot Cen	2.7500	10200.	90	42158	No
98	GOM_TRA_1PNPDE20100324_061441_000000502088_00020_42158_8798.N1	24-MAR-2010 06:14:41	Straylight	49.500	106	9Bet Crv	2.6480	5600.0	99	42158	No
99	GOM_TRA_1PNPDE20100324_061648_000000462088_00020_42158_8799.N1	24-MAR-2010 06:16:48	Twi_and_stray	46.000	100	4Gam Crv	2.5800	13100.	92	42158	No
100	GOM_TRA_1PNPDE20100324_062228_000000462088_00020_42158_8800.N1	24-MAR-2010 06:22:28	Bright	46.000	121	29Gam Vir	2.7400	7200.0	92	42158	No
101	GOM_TRA_1PNPDE20100324_062705_000000442088_00020_42158_8801.N1	24-MAR-2010 06:27:05	Bright	43.500	62	94Bet Leo	2.1360	9700.0	87	42158	No
102	GOM_TRA_1PNPDE20100324_062830_000000402088_00020_42158_8802.N1	24-MAR-2010 06:28:30	Bright	39.500	96	68Del Leo	2.5600	9300.0	79	42158	No
103	GOM_TRA_1PNPDE20100324_063526_000000392088_00020_42158_8803.N1	24-MAR-2010 06:35:26	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	42158	No
104	GOM_TRA_1PNPDE20100324_063844_000000352088_00020_42158_8804.N1	24-MAR-2010 06:38:44	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	42158	No
105	GOM_TRA_1PNPDE20100324_064015_000000372088_00020_42158_8805.N1	24-MAR-2010 06:40:15	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	42158	No
106	GOM_TRA_1PNPDE20100324_064157_000000502088_00020_42158_8806.N1	24-MAR-2010 06:41:57	Bright	49.500	55	79Zet UMa	2.0600	10200.	99	42158	No
107	GOM_TRA_1PNPDE20100324_064701_000000402088_00020_42158_8807.N1	24-MAR-2010 06:47:01	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	42158	No
108	GOM_TRA_1PNPDE20100324_065033_000000482088_00020_42158_8808.N1	24-MAR-2010 06:50:33	Bright	48.000	119	14Eta Dra	2.7270	4700.0	96	42158	No
109	GOM_TRA_1PNPDE20100324_211452_000000462088_00029_42167_8916.N1	24-MAR-2010 21:14:52	Straylight	46.000	123	Iot Cen	2.7500	10200.	92	42167	No
110	GOM_TRA_1PNPDE20100324_212006_000000502088_00029_42167_8917.N1	24-MAR-2010 21:20:06	Straylight	49.500	106	9Bet Crv	2.6480	5600.0	99	42167	No
111	GOM_TRA_1PNPDE20100324_212212_000000452088_00029_42167_8918.N1	24-MAR-2010 21:22:12	Twi_and_stray	45.000	100	4Gam Crv	2.5800	13100.	90	42167	No
112	GOM_TRA_1PNPDE20100324_212749_000000512088_00029_42167_8919.N1	24-MAR-2010 21:27:49	Bright	50.500	121	29Gam Vir	2.7400	7200.0	101	42167	No
113	GOM_TRA_1PNPDE20100324_213227_000000422088_00029_42167_8920.N1	24-MAR-2010 21:32:27	Bright	41.500	62	94Bet Leo	2.1360	9700.0	83	42167	No
114	GOM_TRA_1PNPDE20100324_213352_000000382088_00029_42167_8921.N1	24-MAR-2010 21:33:52	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	42167	No
115	GOM_TRA_1PNPDE20100324_214047_000000392088_00029_42167_8922.N1	24-MAR-2010 21:40:47	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	42167	No
116	GOM_TRA_1PNPDE20100324_214405_000000382088_00029_42167_8923.N1	24-MAR-2010 21:44:05	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	42167	No
117	GOM_TRA_1PNPDE20100324_214537_000000422088_00029_42167_8924.N1	24-MAR-2010 21:45:37	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	42167	No
118	GOM_TRA_1PNPDE20100324_214714_000000472088_00029_42167_8925.N1	24-MAR-2010 21:47:14	Bright	46.500	55	79Zet UMa	2.0600	10200.	93	42167	No
119	GOM_TRA_1PNPDE20100324_215221_000000372088_00029_42167_8926.N1	24-MAR-2010 21:52:21	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	42167	No
120	GOM_TRA_1PNPDE20100324_215551_000000472088_00029_42167_8927.N1	24-MAR-2010 21:55:51	Bright	47.000	119	14Eta Dra	2.7270	4700.0	94	42167	No
121	GOM_TRA_1PNPDE20100324_220113_000000462088_00029_42167_8928.N1	24-MAR-2010 22:01:13	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	42167	No
122	GOM_TRA_1PNPDE20100324_220623_000000422088_00029_42167_8929.N1	24-MAR-2010 22:06:23	Bright	42.000	19	50Alp Cyg	1.2460	10500.	84	42167	No
123	GOM_TRA_1PNPDE20100324_220759_000000402088_00029_42167_8930.N1	24-MAR-2010 22:07:59	Bright	39.500	66	37Gam Cyg	2.2080	5900.0	79	42167	No
124	GOM_TRA_1PNPDE20100324_220950_000000442088_00029_42167_8931.N1	24-MAR-2010 22:09:50	Bright	43.500	92	53Eps Cyg	2.5000	4500.0	87	42167	No
125	GOM_TRA_1PNPDE20100324_221857_000000562088_00029_42167_8932.N1	24-MAR-2010 22:18:57	Twi_and_stray	55.500	11	53Alp Aql	0.76500	8000.0	111	42167	No
126	GOM_TRA_1PNPDE20100324_223402_000000542088_00029_42167_8944.N1	24-MAR-2010 22:34:02	Dark	54.000	137	22Lam Sgr	2.8240	4400.0	108	42167	No

127	GOM_TRA_1PNPDE20100324_223544_000000502088_00029_42167_8945.N1	24-MAR-2010 22:35:44	Dark	50.000	38	20Eps Sgr	1.8360	11000.	100	42167	No
128	GOM_TRA_1PNPDE20100324_223911_000000492088_00030_42168_8946.N1	24-MAR-2010 22:39:11	Dark	49.000	85	Kap Sco	2.4070	28000.	98	42168	No
129	GOM_TRA_1PNPDE20100324_224102_000000442088_00030_42168_8947.N1	24-MAR-2010 22:41:02	Dark	44.000	141	Bet Ara	2.8400	4600.0	88	42168	No
130	GOM_TRA_1PNPDE20100324_224425_000000402088_00030_42168_8948.N1	24-MAR-2010 22:44:25	Dark	40.000	134	Bet TrA	2.8100	6600.0	80	42168	No
131	GOM_TRA_1PNPDE20100324_224708_000000562088_00030_42168_8949.N1	24-MAR-2010 22:47:08	Dark	56.000	4	Alp1Cen	-0.010000	5800.0	112	42168	No
132	GOM_TRA_1PNPDE20100324_224934_000000462088_00030_42168_8950.N1	24-MAR-2010 22:49:34	Straylight	46.000	78	Alp Lup	2.3040	28000.	92	42168	No
133	GOM_TRA_1PNPDE20100324_225108_000000492088_00030_42168_8951.N1	24-MAR-2010 22:51:08	Straylight	49.000	81	Eta Cen	2.3560	28000.	98	42168	No
134	GOM_TRA_1PNPDE20100324_225303_000000432088_00030_42168_8952.N1	24-MAR-2010 22:53:03	Straylight	43.000	64	Gam Cen	2.2000	10600.	86	42168	No
135	GOM_TRA_1PNPDE20100324_225528_000000502088_00030_42168_8953.N1	24-MAR-2010 22:55:28	Straylight	49.500	123	Iot Cen	2.7500	10200.	99	42168	No
136	GOM_TRA_1PNPDE20100324_230042_000000482088_00030_42168_8954.N1	24-MAR-2010 23:00:42	Straylight	47.500	106	9Bet Crv	2.6480	5600.0	95	42168	No
137	GOM_TRA_1PNPDE20100324_230248_000000472088_00030_42168_8955.N1	24-MAR-2010 23:02:48	Twi_and_stray	46.500	100	4Gam Crv	2.5800	13100.	93	42168	No
138	GOM_TRA_1PNPDE20100324_230825_000000512088_00030_42168_8956.N1	24-MAR-2010 23:08:25	Bright	51.000	121	29Gam Vir	2.7400	7200.0	102	42168	No
139	GOM_TRA_1PNPDE20100324_231302_000000592088_00030_42168_8957.N1	24-MAR-2010 23:13:02	Bright	59.000	62	94Bet Leo	2.1360	9700.0	118	42168	No
140	GOM_TRA_1PNPDE20100324_231427_000000372088_00030_42168_8958.N1	24-MAR-2010 23:14:27	Bright	36.500	96	68Del Leo	2.5600	9300.0	73	42168	No
141	GOM_TRA_1PNPDE20100324_232123_000000392088_00030_42168_8959.N1	24-MAR-2010 23:21:23	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	42168	No
142	GOM_TRA_1PNPDE20100324_232441_000000442088_00030_42168_8960.N1	24-MAR-2010 23:24:41	Bright	43.500	82	48Bet UMa	2.3650	10600.	87	42168	No
143	GOM_TRA_1PNPDE20100324_232612_000000412088_00030_42168_8961.N1	24-MAR-2010 23:26:12	Bright	41.000	36	50Alp UMa	1.8000	6300.0	82	42168	No
144	GOM_TRA_1PNPDE20100324_232749_000000452088_00030_42168_8962.N1	24-MAR-2010 23:27:49	Bright	45.000	55	79Zet UMa	2.0600	10200.	90	42168	No
145	GOM_TRA_1PNPDE20100324_233257_000000422088_00030_42168_8963.N1	24-MAR-2010 23:32:57	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	42168	No
146	GOM_TRA_1PNPDE20100324_233626_000000442088_00030_42168_8964.N1	24-MAR-2010 23:36:26	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	42168	No
147	GOM_TRA_1PNPDE20100324_234149_000000372088_00030_42168_8965.N1	24-MAR-2010 23:41:49	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	42168	No
148	GOM_TRA_1PNPDE20100324_234658_000000382088_00030_42168_8966.N1	24-MAR-2010 23:46:58	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	42168	No
149	GOM_TRA_1PNPDE20100324_234835_000000412088_00030_42168_8967.N1	24-MAR-2010 23:48:35	Bright	40.500	66	37Gam Cyg	2.2080	5900.0	81	42168	No
150	GOM_TRA_1PNPDE20100324_235027_000000402088_00030_42168_8968.N1	24-MAR-2010 23:50:27	Bright	40.000	92	53Eps Cyg	2.5000	4500.0	80	42168	No
151	GOM_TRA_1PNPDE20100324_235933_000000582088_00030_42168_8969.N1	24-MAR-2010 23:59:33	Twi_and_stray	58.000	11	53Alp Aql	0.76500	8000.0	116	42168	No

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





4. Overview of dark signal processing per product

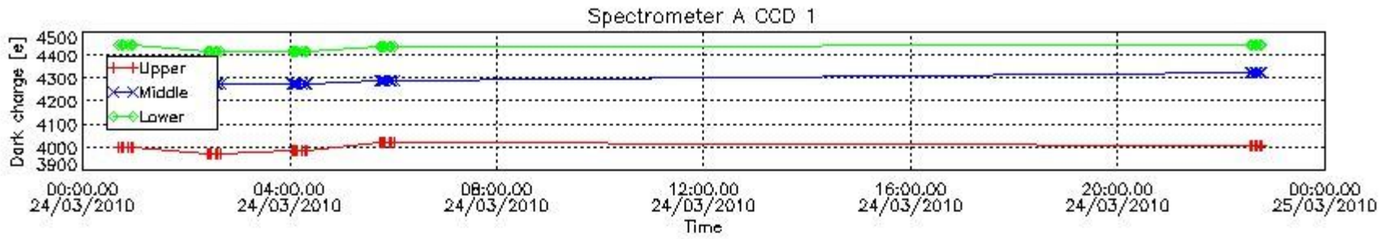
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

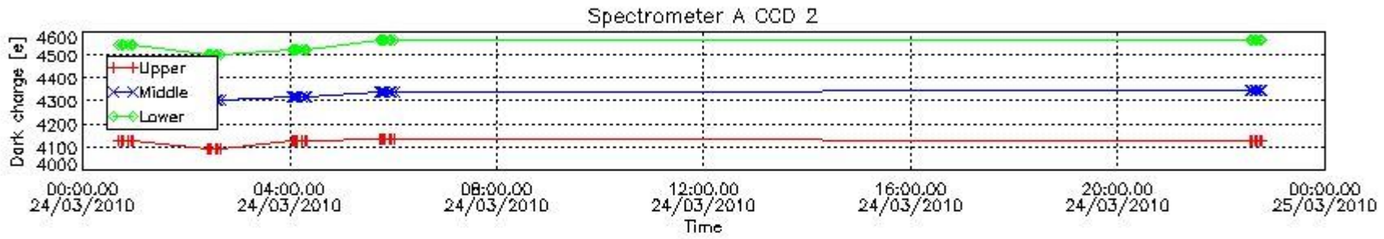
4.1 These products did not use the DSA observation for DC computation:

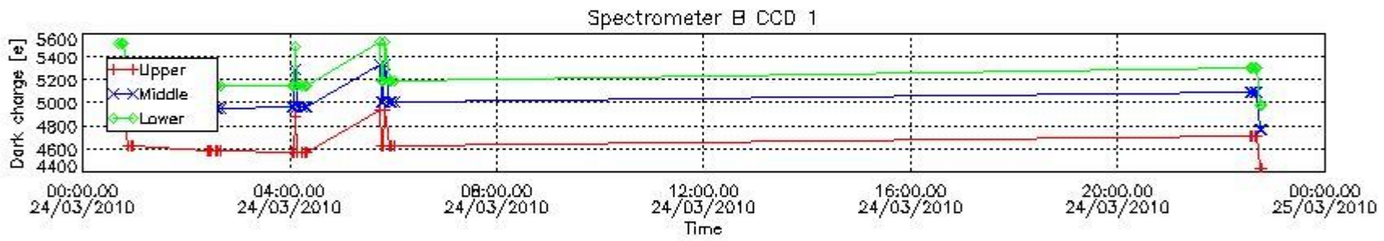
Product name	DC information
GOM_TRA_1PNPDE20100324_211452_000000462088_00029_42167_8916.N1	DC map used
GOM_TRA_1PNPDE20100324_212006_000000502088_00029_42167_8917.N1	DC map used
GOM_TRA_1PNPDE20100324_212212_000000452088_00029_42167_8918.N1	DC map used
GOM_TRA_1PNPDE20100324_212749_000000512088_00029_42167_8919.N1	DC map used
GOM_TRA_1PNPDE20100324_213227_000000422088_00029_42167_8920.N1	DC map used
GOM_TRA_1PNPDE20100324_213352_000000382088_00029_42167_8921.N1	DC map used
GOM_TRA_1PNPDE20100324_214047_000000392088_00029_42167_8922.N1	DC map used
GOM_TRA_1PNPDE20100324_214405_000000382088_00029_42167_8923.N1	DC map used
GOM_TRA_1PNPDE20100324_214537_000000422088_00029_42167_8924.N1	DC map used
GOM_TRA_1PNPDE20100324_214714_000000472088_00029_42167_8925.N1	DC map used
GOM_TRA_1PNPDE20100324_215221_000000372088_00029_42167_8926.N1	DC map used
GOM_TRA_1PNPDE20100324_215551_000000472088_00029_42167_8927.N1	DC map used
GOM_TRA_1PNPDE20100324_220113_000000462088_00029_42167_8928.N1	DC map used
GOM_TRA_1PNPDE20100324_220623_000000422088_00029_42167_8929.N1	DC map used

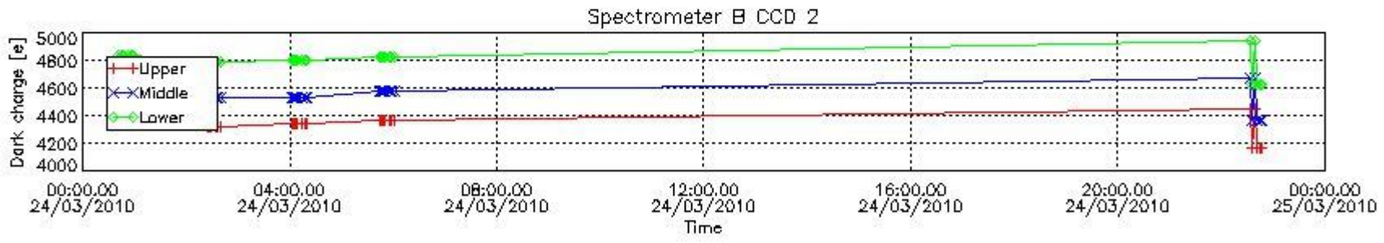
GOM_TRA_1PNPDE20100324_220759_000000402088_00029_42167_8930.N1	DC map used
GOM_TRA_1PNPDE20100324_220950_000000442088_00029_42167_8931.N1	DC map used
GOM_TRA_1PNPDE20100324_221857_000000562088_00029_42167_8932.N1	DC map used

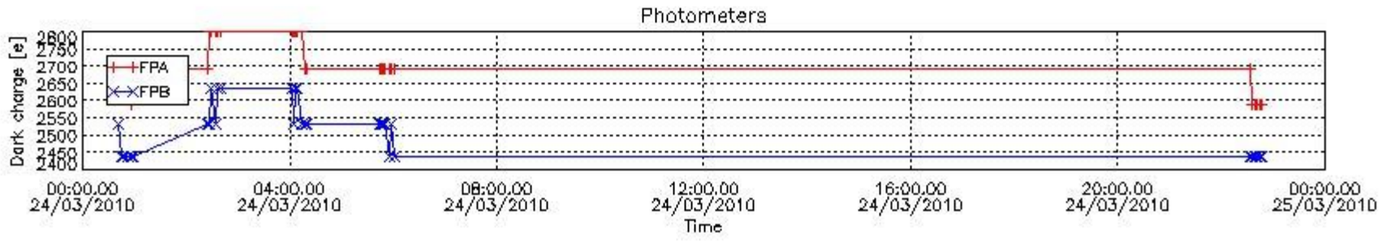
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











5. Demodulation flag and quality information monitoring

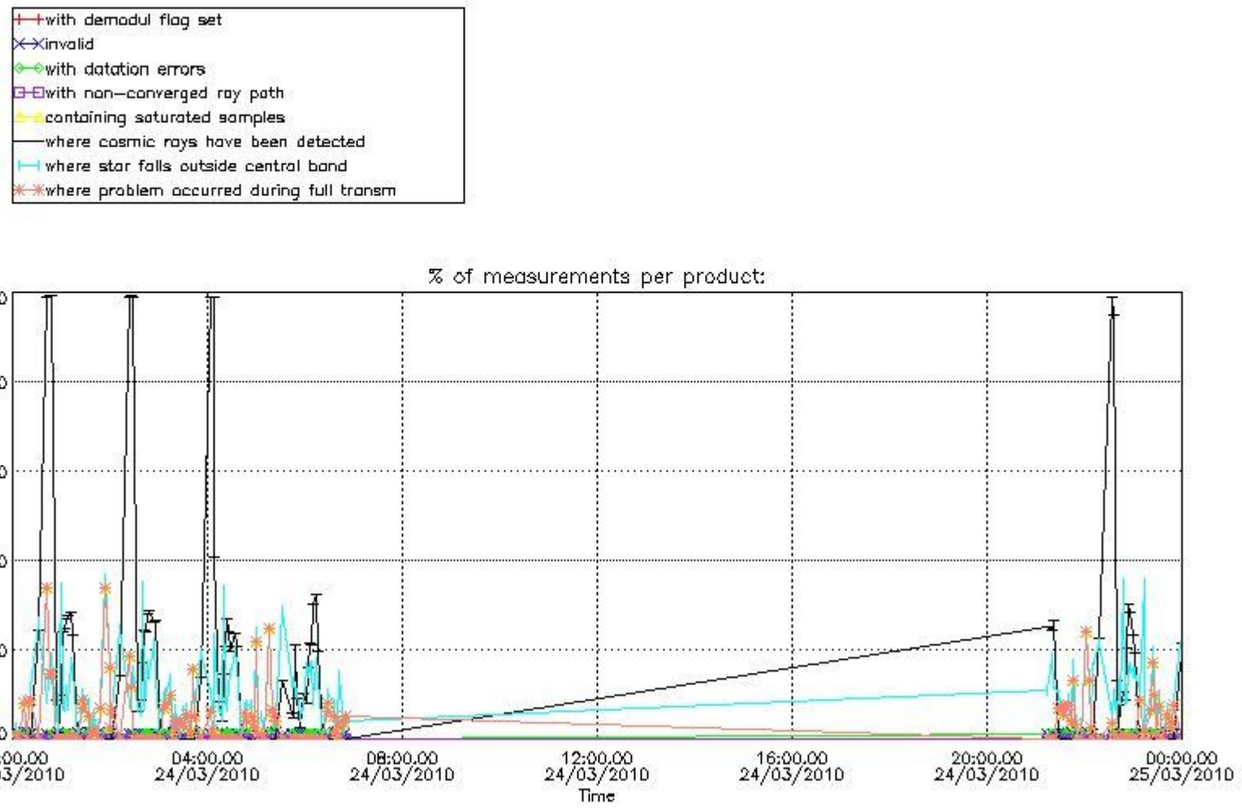
In this section it is presented the modulation information extracted from the pcd (product confidence data)
at measurement level and information extracted from the Quality Summary dataset. Only products without errors

(error flag in the MPH set to "0") are used.

5.1 Percentage of products during reporting period with:

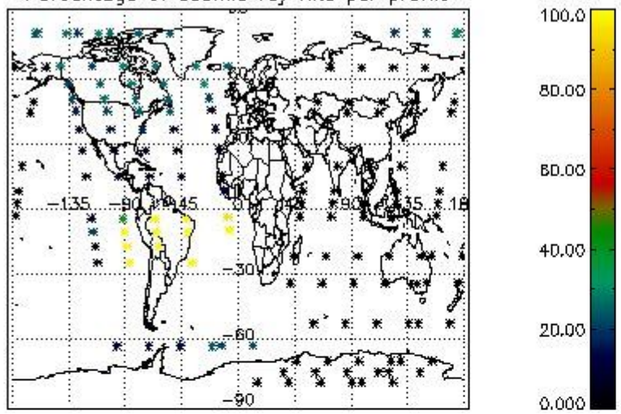
At least one measurement with demodulation flag set:	33.7748 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

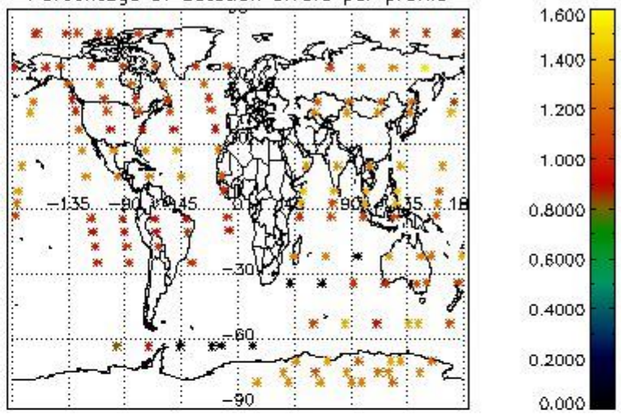


5.3 Plot quality information per product (world map)

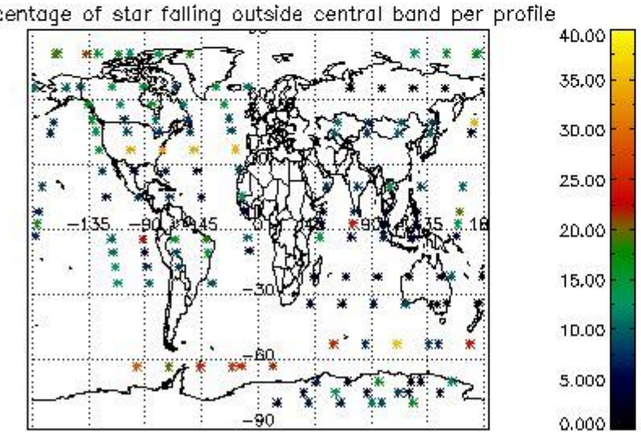
Percentage of cosmic ray hits per profile



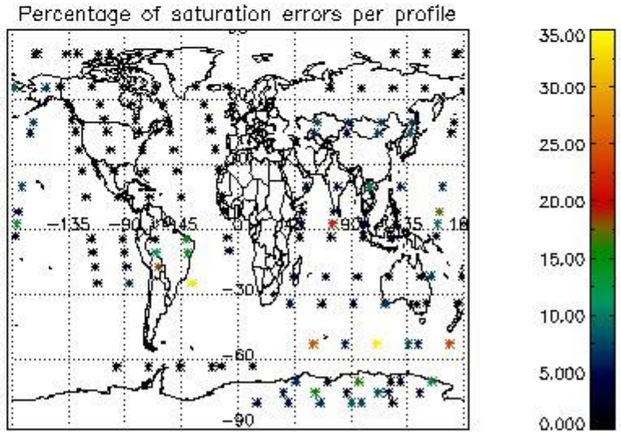
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



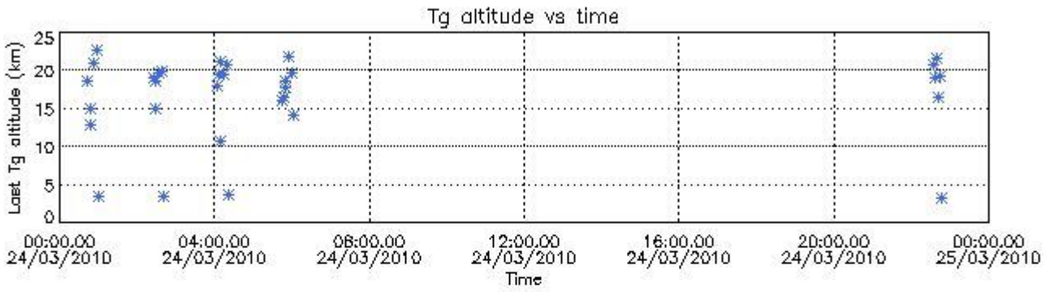
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

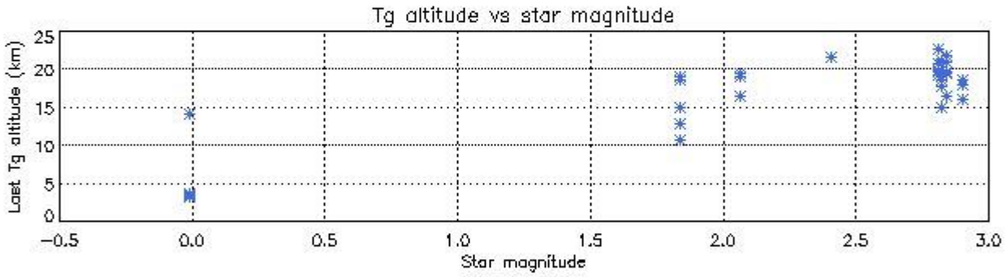
6.1 Statistics on tangent altitude lost:

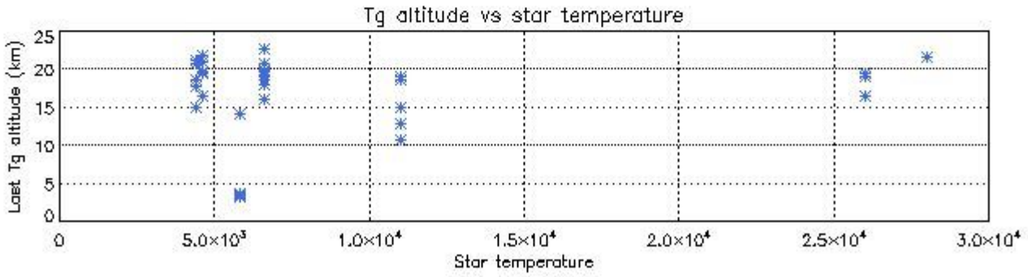
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.439	20.175	NaN
St. deviation:	5.6779	5.5360	NaN
Maximum:	22.753	39.121	NaN
Minimum:	3.1651	3.4259	NaN
Number of data:	32.000	79.000	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

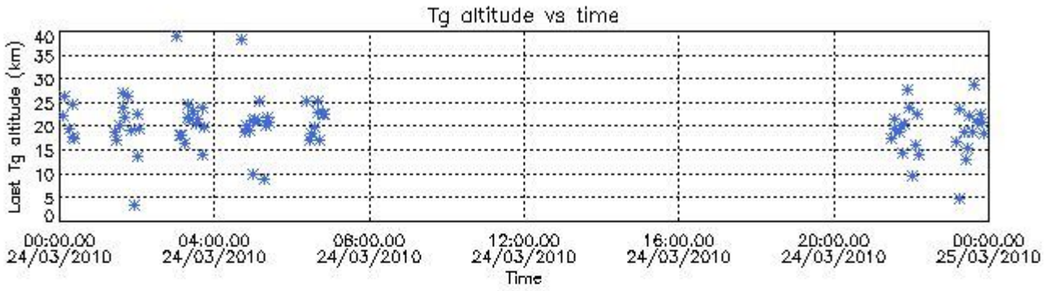


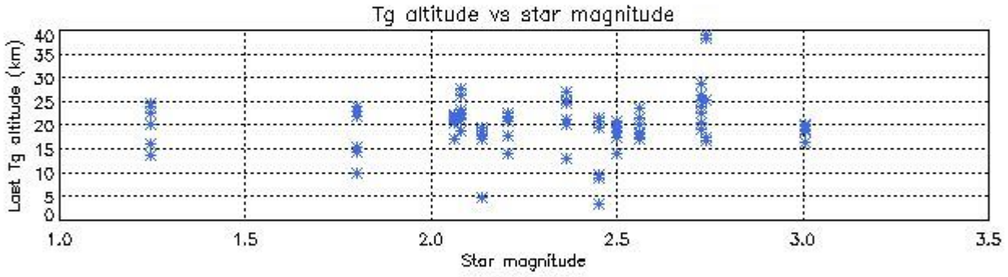


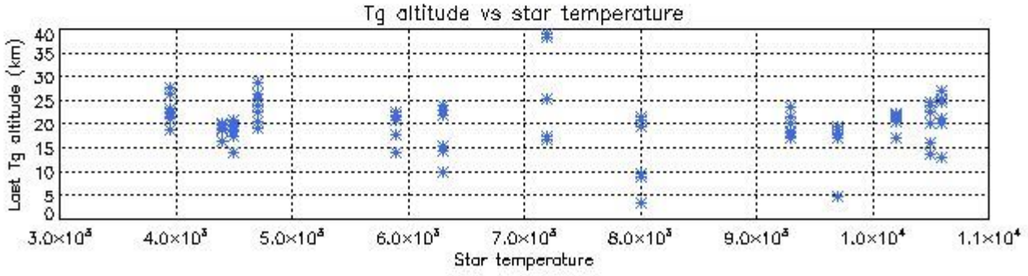


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost





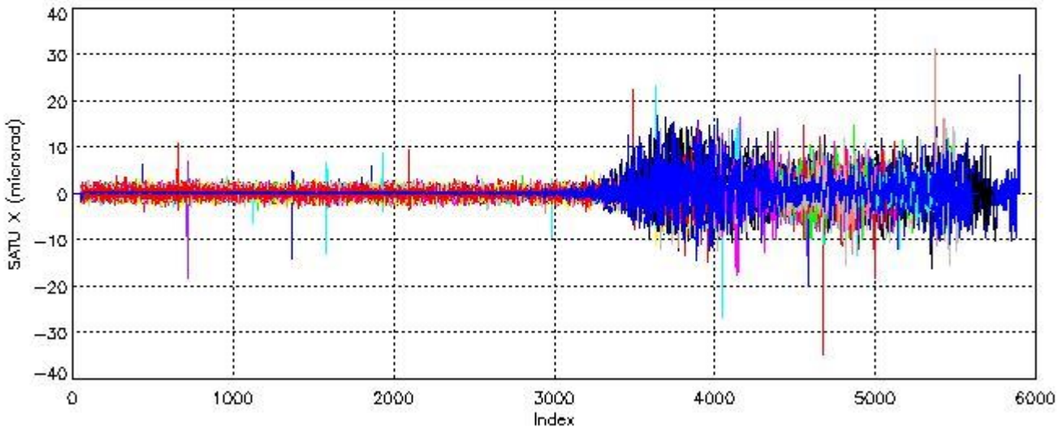


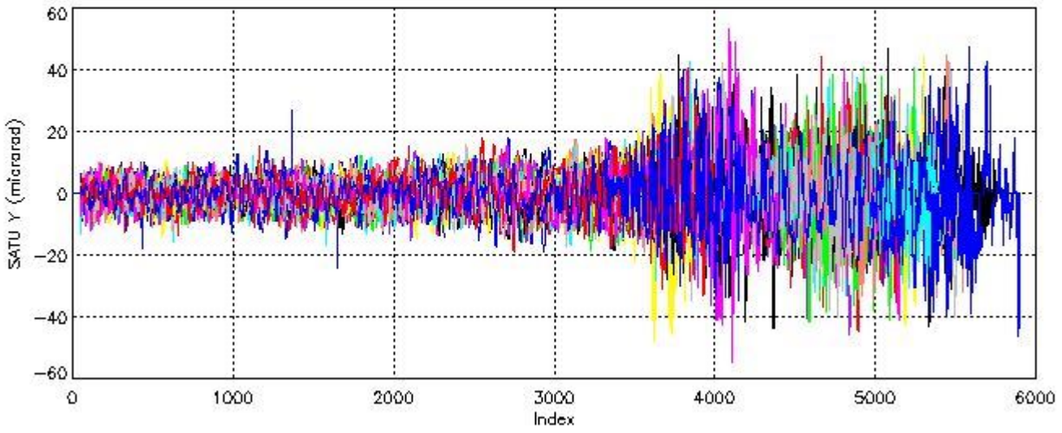
7. Star Acquisition and Tracking Unit (SATU)

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 functin 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 frecuency 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:	0.18087	-0.27725	0.16681	-0.24992
St. deviation:	0.60836	3.2459	0.71702	3.0779
Maximum:	10.900	13.600	4.6000	13.800
Minimum:	-18.400	-17.800	-7.4000	-14.800

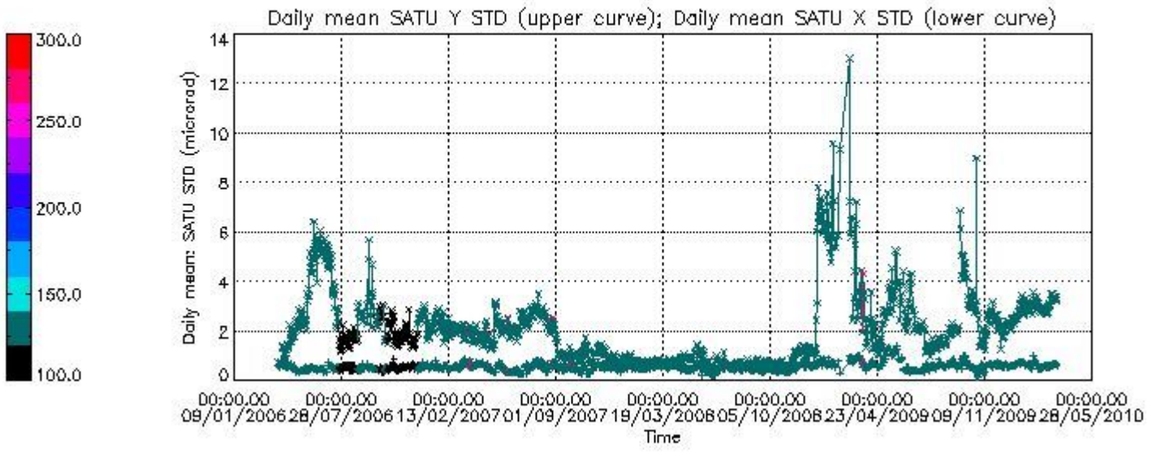
Number of data:	34900.	34900.	76250.	76250.

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.

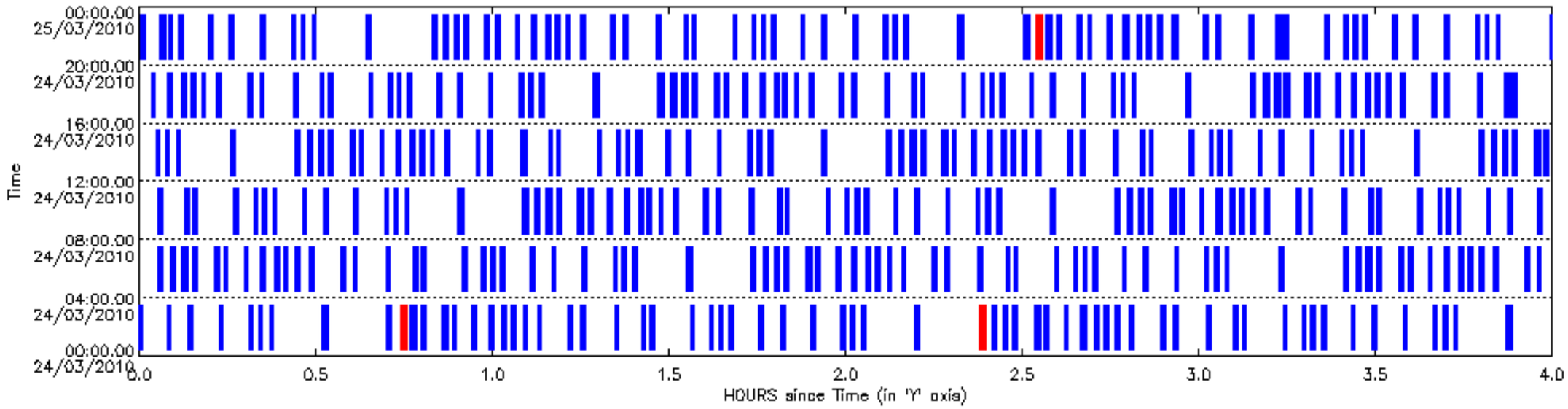
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

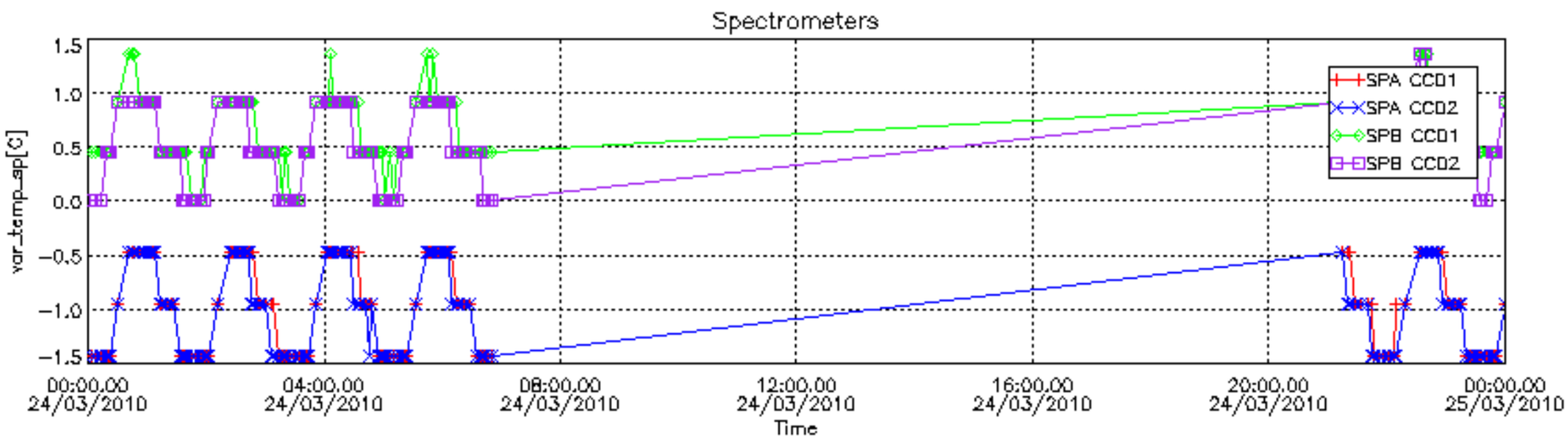


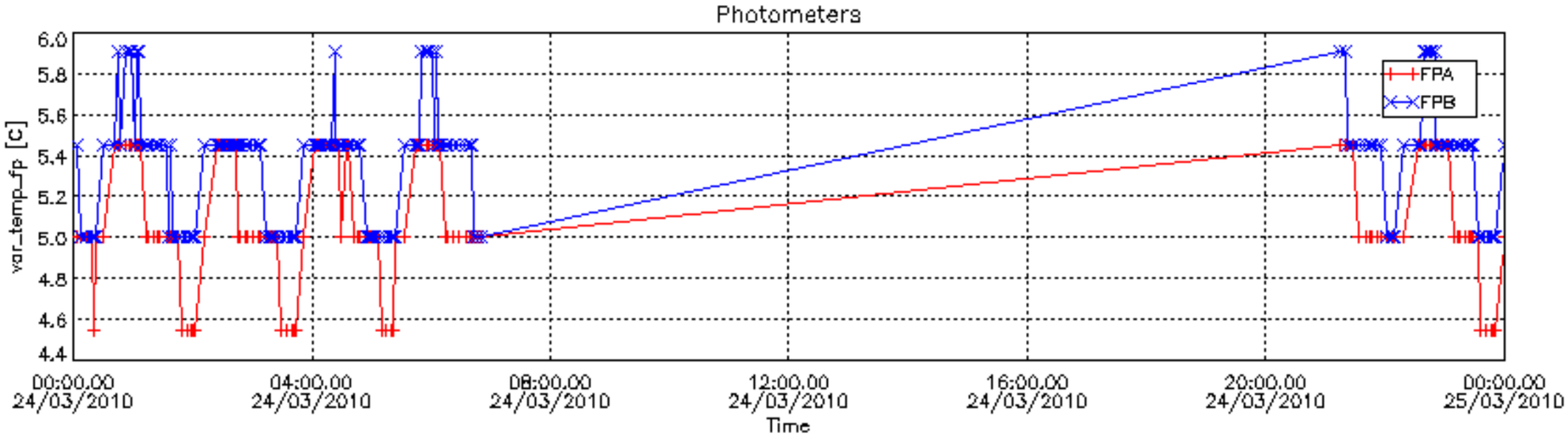
8. Auxiliary Data Files used for the production reported in section 2.4

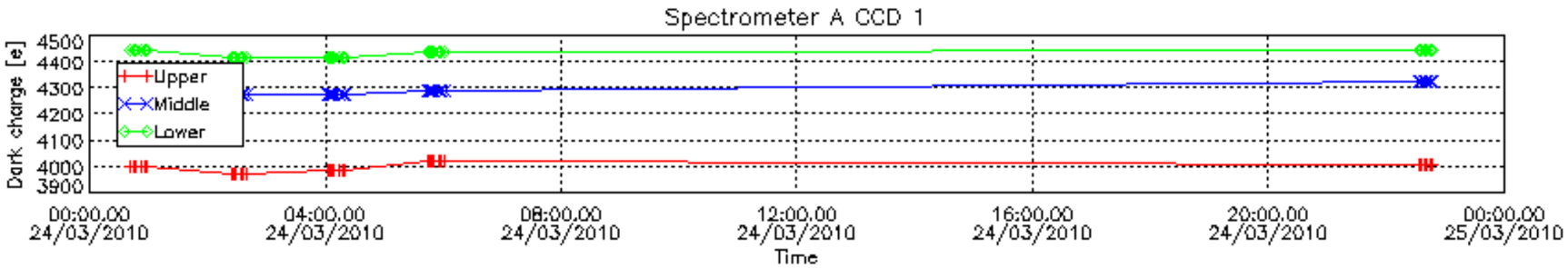
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

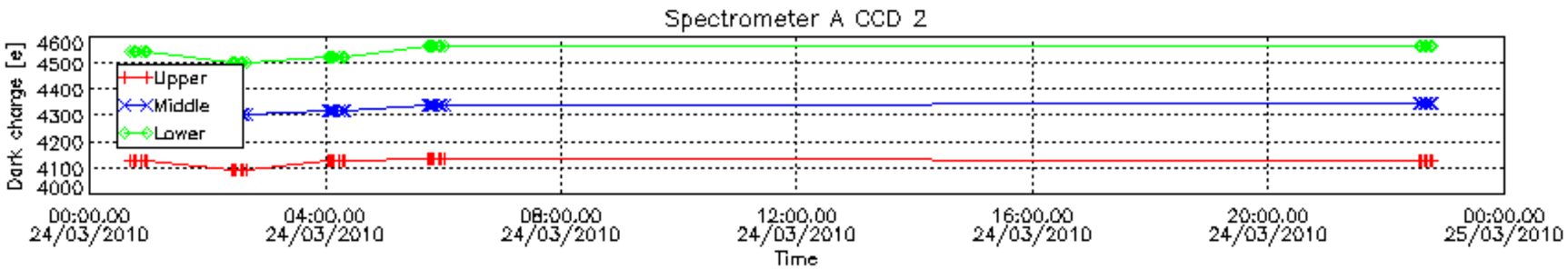
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	24-MAR-2010 00:04:39
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100317_084501_20100315_000000_20500101_000000	1	24-MAR-2010 00:04:39
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100324_131115_20100322_000000_20500101_000000	109	24-MAR-2010 21:14:52
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	24-MAR-2010 00:04:39
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-MAR-2010 00:04:39
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	24-MAR-2010 00:04:39
ECMWF_FILE	AUX_ECF_AXNECM20100323_052116_20100323_210000_20100324_090000	1	24-MAR-2010 00:04:39
ECMWF_FILE	AUX_ECF_AXNECM20100323_174115_20100324_030000_20100324_150000	54	24-MAR-2010 03:29:23
ECMWF_FILE	AUX_ECA_AXNECM20100324_052116_20100323_210000_20100324_090000	82	24-MAR-2010 05:15:14
ECMWF_FILE	AUX_ECF_AXNECM20100324_054117_20100324_210000_20100325_090000	109	24-MAR-2010 21:14:52
OPTIONAL_ECMWF_FILE	MISSING	1	24-MAR-2010 00:04:39
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100323_225217_000057382088_00015_42153_0020.N1	1	24-MAR-2010 00:04:39
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100324_003314_000057382088_00016_42154_0021.N1	8	24-MAR-2010 00:41:59
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100324_020852_000044632088_00017_42155_0022.N1	34	24-MAR-2010 02:24:44
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100324_032834_000057382088_00018_42156_0023.N1	54	24-MAR-2010 03:29:23
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100323_110117_20100322_183810_20100401_200424	82	24-MAR-2010 05:15:14
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100324_211112_000038252088_00029_42167_0025.N1	109	24-MAR-2010 21:14:52
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100324_222016_000057382088_00029_42167_0026.N1	126	24-MAR-2010 22:34:02

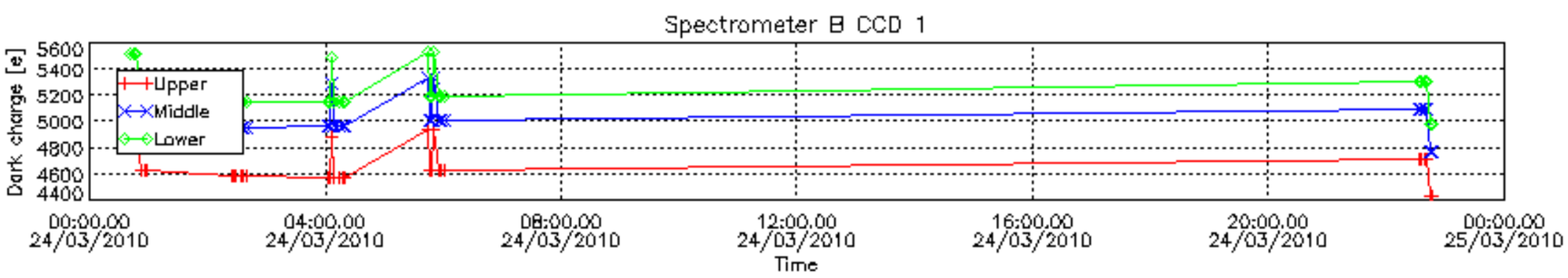

00:00.00
25/03/2010
20:00.00
24/03/2010
16:00.00
24/03/2010
12:00.00
24/03/2010
08:00.00
24/03/2010
04:00.00
24/03/2010
00:00.00
24/03/2010
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

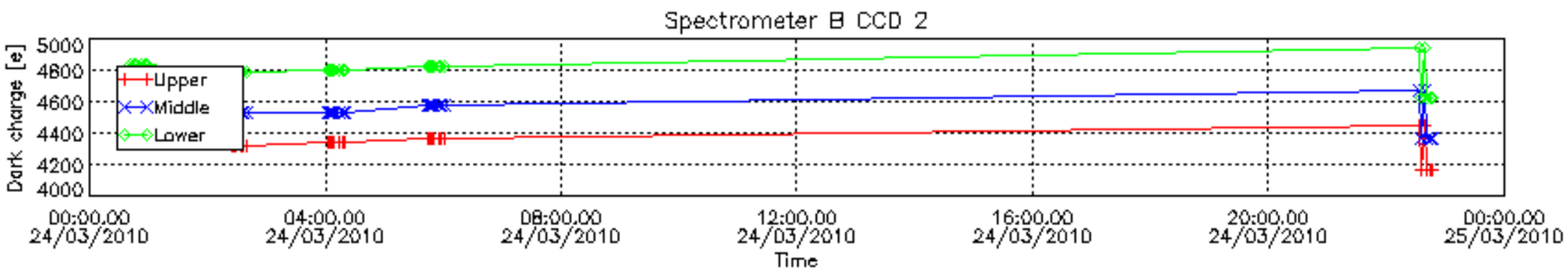

Spectrometers
var_temp_sp[C]
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
24/03/2010
04:00.00
24/03/2010
08:00.00
24/03/2010
12:00.00
24/03/2010
16:00.00
24/03/2010
20:00.00
24/03/2010
00:00.00
25/03/2010
Time

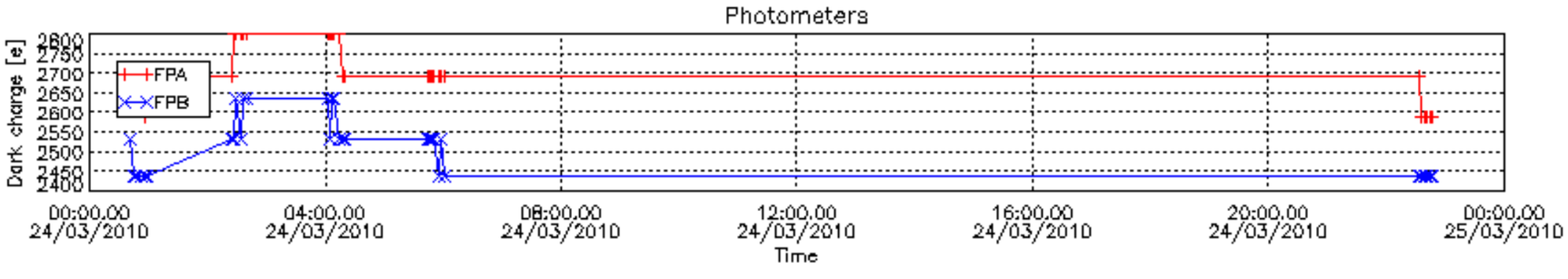

Photometers
var_temp_fp [C]
6.0
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
FPA
FPB
00:00.00
24/03/2010
04:00.00
24/03/2010
08:00.00
24/03/2010
12:00.00
24/03/2010
16:00.00
24/03/2010
20:00.00
24/03/2010
00:00.00
25/03/2010
Time

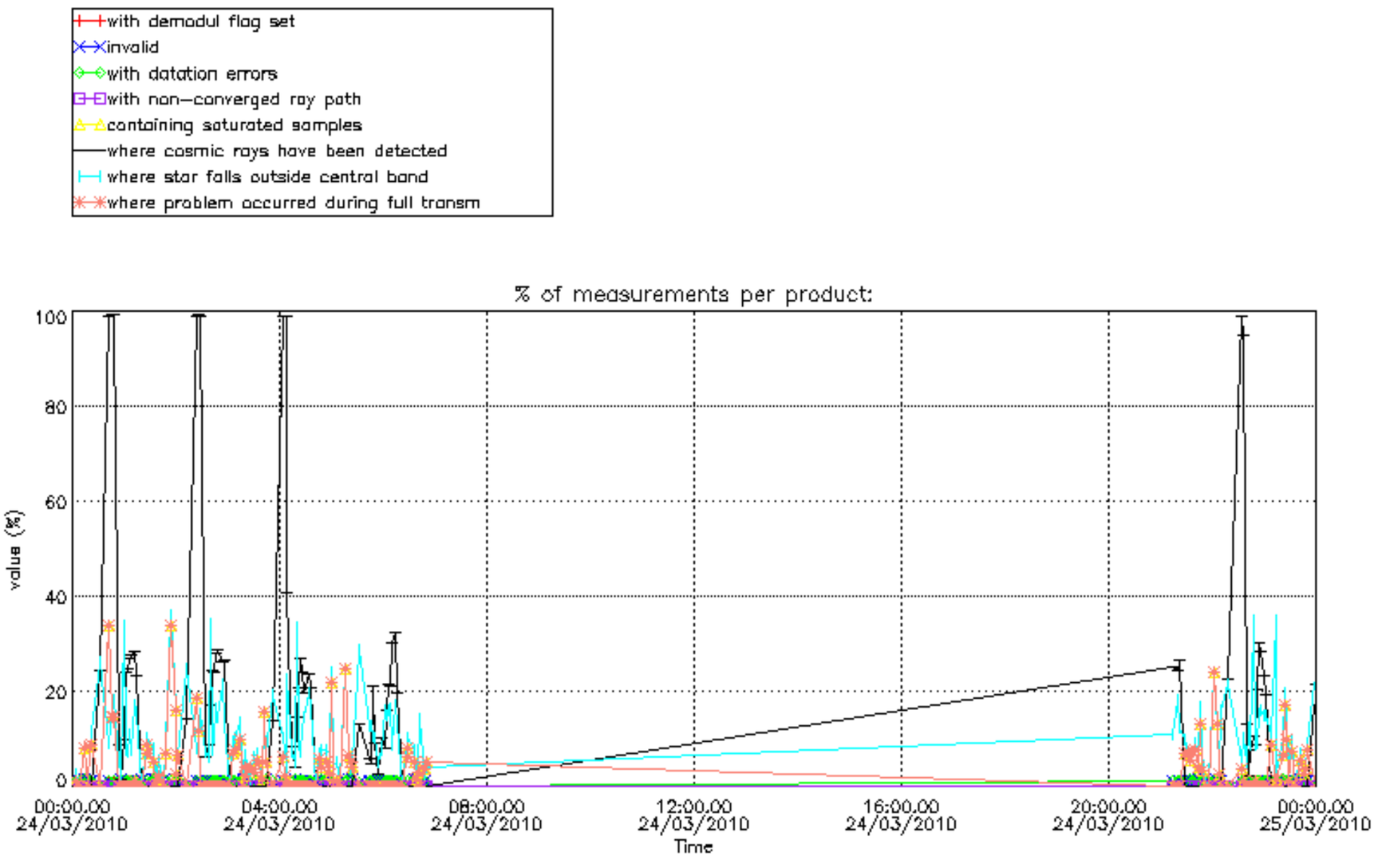

Spectrometer A CCD 1
Dark charge [e]
4500
4400
4300
4200
4100
4000
3900
Upper
Middle
Lower
00:00.00 24/03/2010
04:00.00 24/03/2010
08:00.00 24/03/2010
12:00.00 24/03/2010
16:00.00 24/03/2010
20:00.00 24/03/2010
00:00.00 25/03/2010
Time

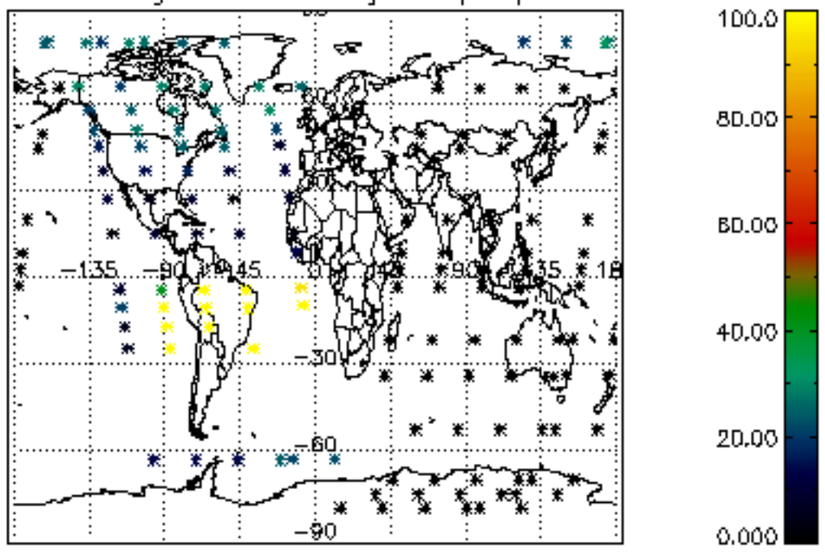

Spectrometer A CCD 2
Dark charge [e]
4600
4500
4400
4300
4200
4100
4000
Upper
Middle
Lower
00:00.00 24/03/2010
04:00.00 24/03/2010
08:00.00 24/03/2010
12:00.00 24/03/2010
16:00.00 24/03/2010
20:00.00 24/03/2010
00:00.00 25/03/2010
Time

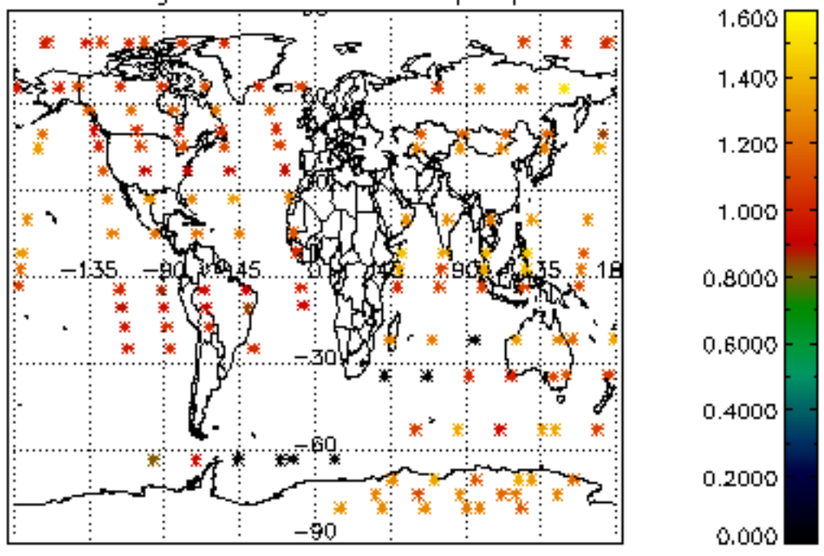

Spectrometer B CCD 1
Dark charge [e]
5600
5400
5200
5000
4800
4600
4400
Upper
Middle
Lower
00:00.00 24/03/2010
04:00.00 24/03/2010
08:00.00 24/03/2010
12:00.00 24/03/2010
16:00.00 24/03/2010
20:00.00 24/03/2010
00:00.00 25/03/2010
Time

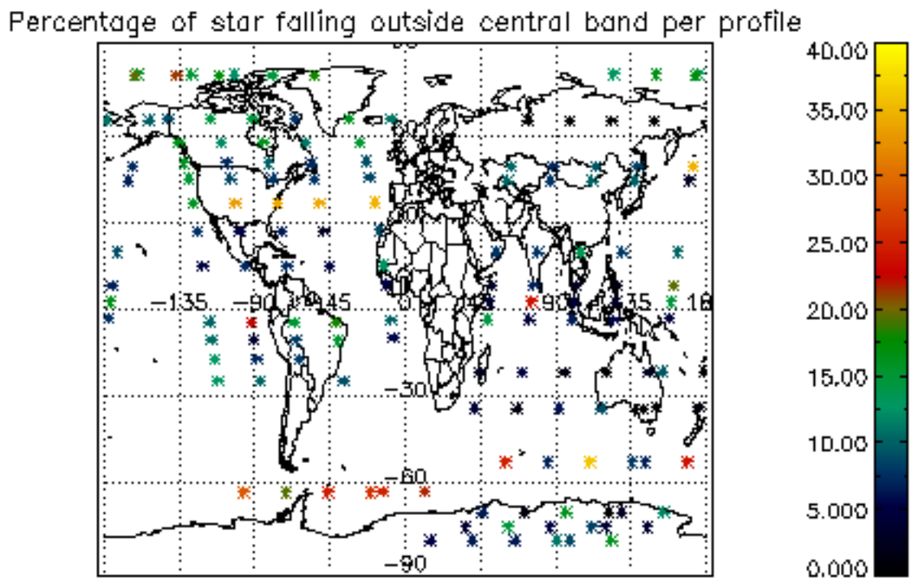

Spectrometer B CCD 2
Dark charge [e]
5000
4800
4600
4400
4200
4000
Upper
Middle
Lower
00:00.00 24/03/2010
04:00.00 24/03/2010
08:00.00 24/03/2010
12:00.00 24/03/2010
16:00.00 24/03/2010
20:00.00 24/03/2010
00:00.00 25/03/2010
Time

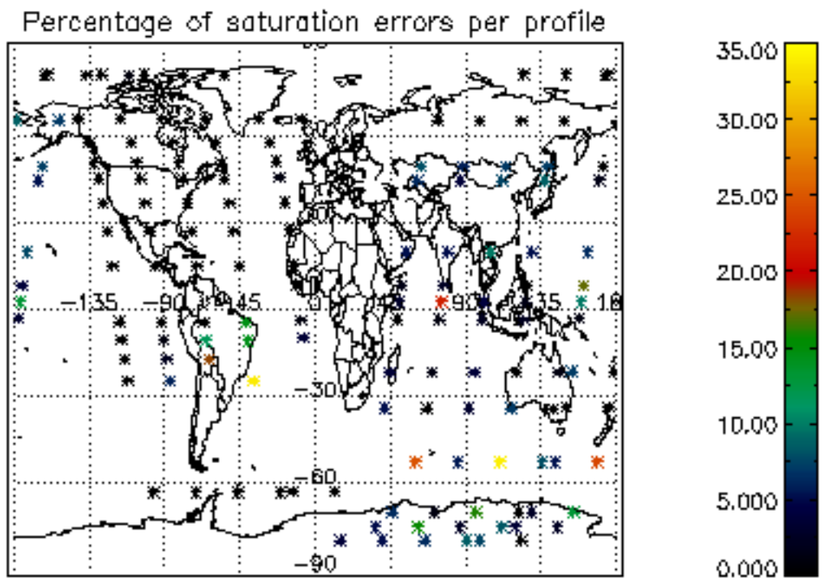

Photometers
Dark charge [e]
2800
2750
2700
2650
2600
2550
2500
2450
2400
FPA
FPB
00:00.00 24/03/2010
04:00.00 24/03/2010
08:00.00 24/03/2010
12:00.00 24/03/2010
16:00.00 24/03/2010
20:00.00 24/03/2010
00:00.00 25/03/2010
Time


with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
100
80
60
40
20
0
value (%)
00:00.00 24/03/2010
04:00.00 24/03/2010
08:00.00 24/03/2010
12:00.00 24/03/2010
16:00.00 24/03/2010
20:00.00 24/03/2010
00:00.00 25/03/2010
Time

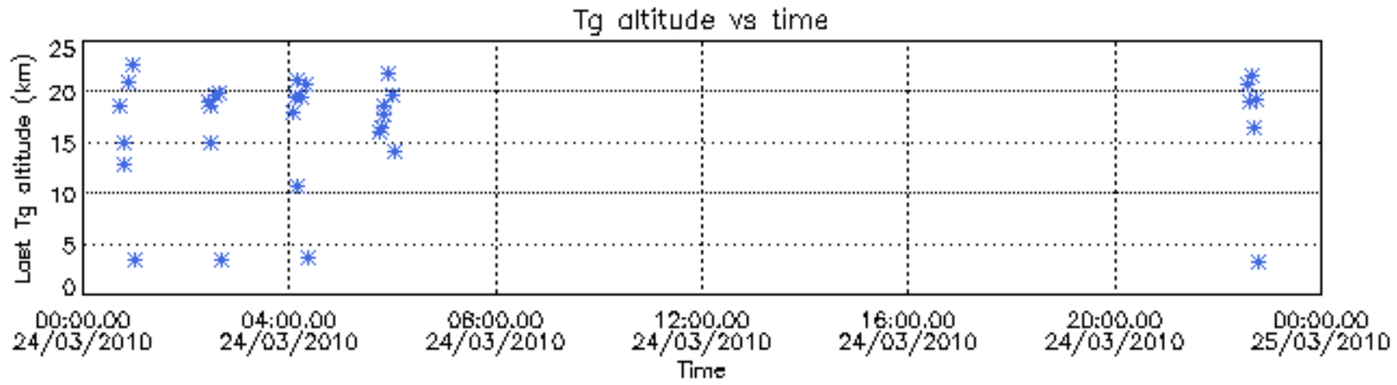

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90

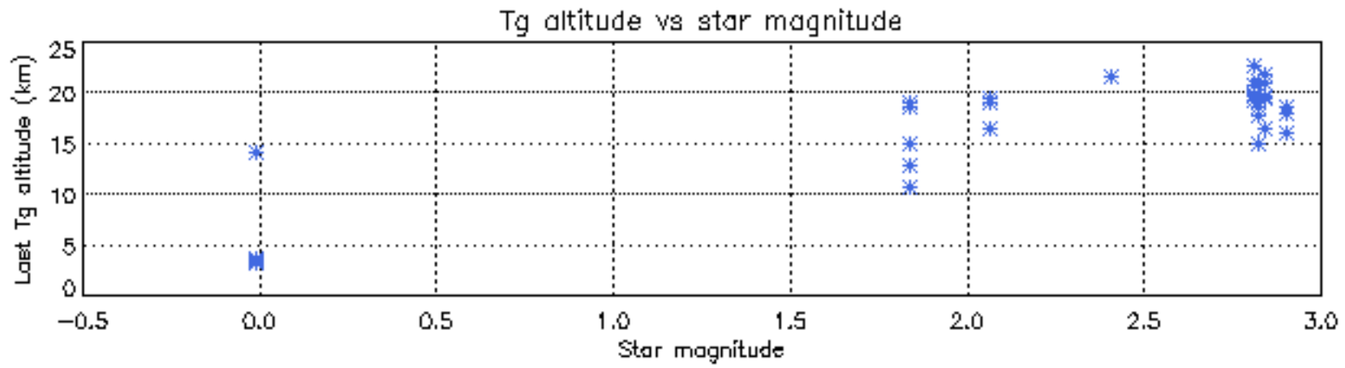

Percentage of datation errors per profile
1.600
1.400
1.200
1.000
0.8000
0.6000
0.4000
0.2000
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90

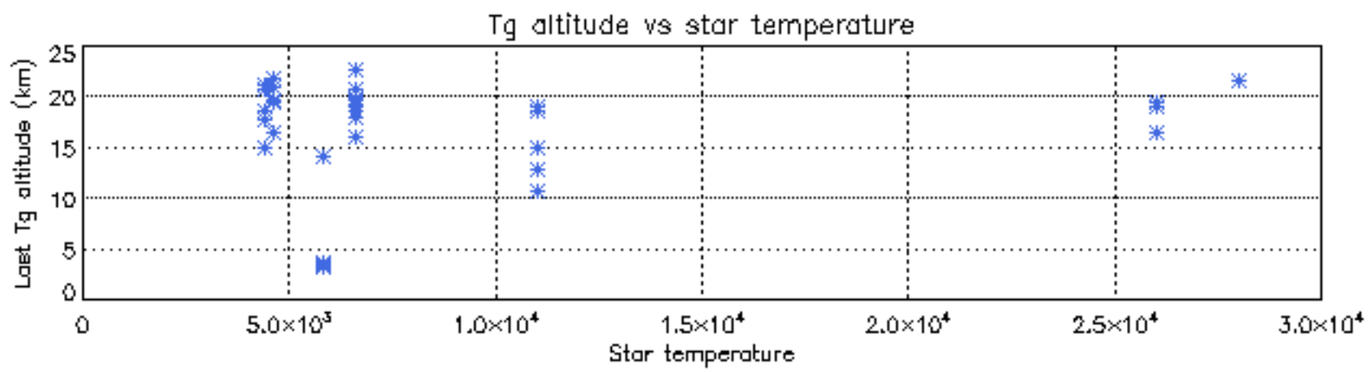

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90


Percentage of saturation errors per profile
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90

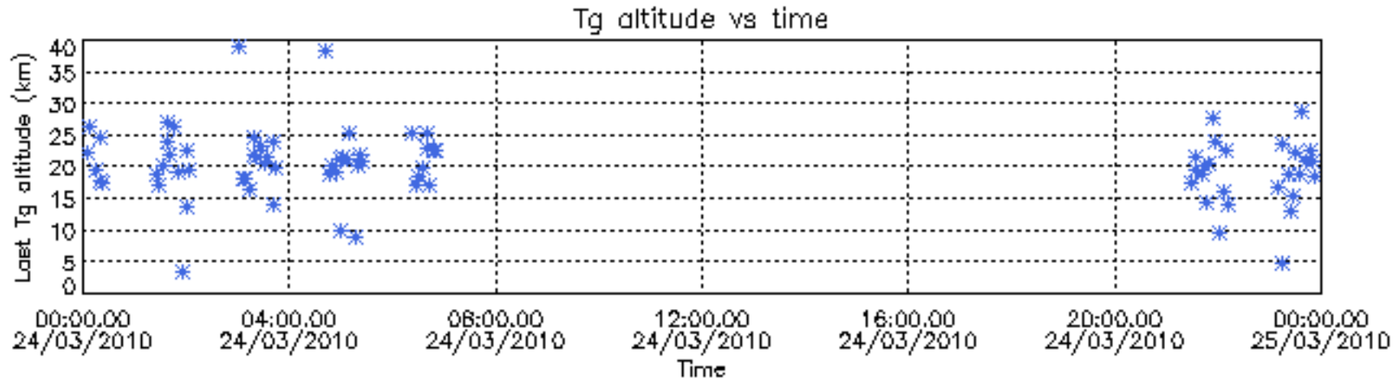
Tangent altitude at which the star is lost

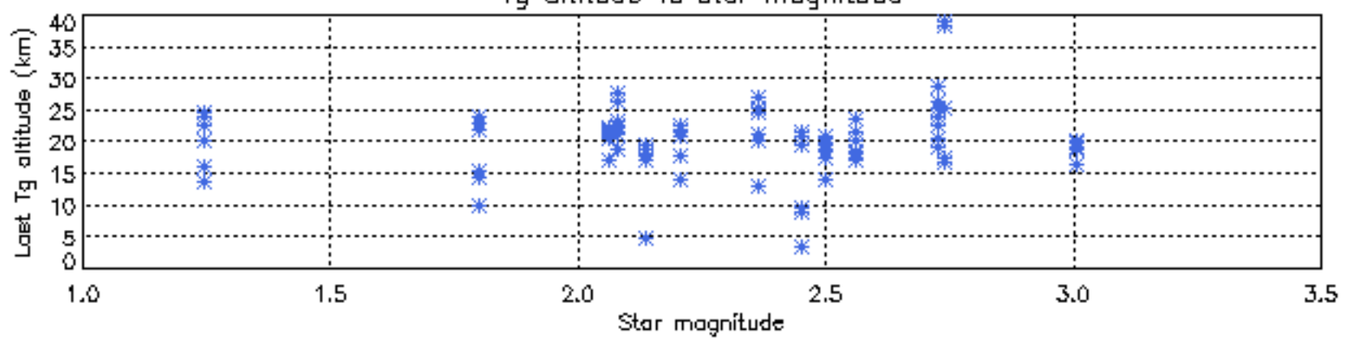


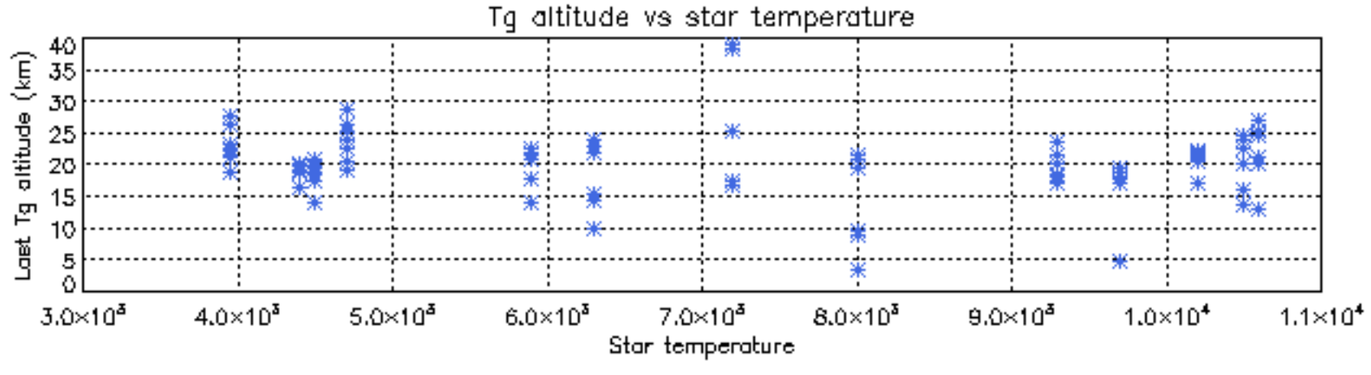


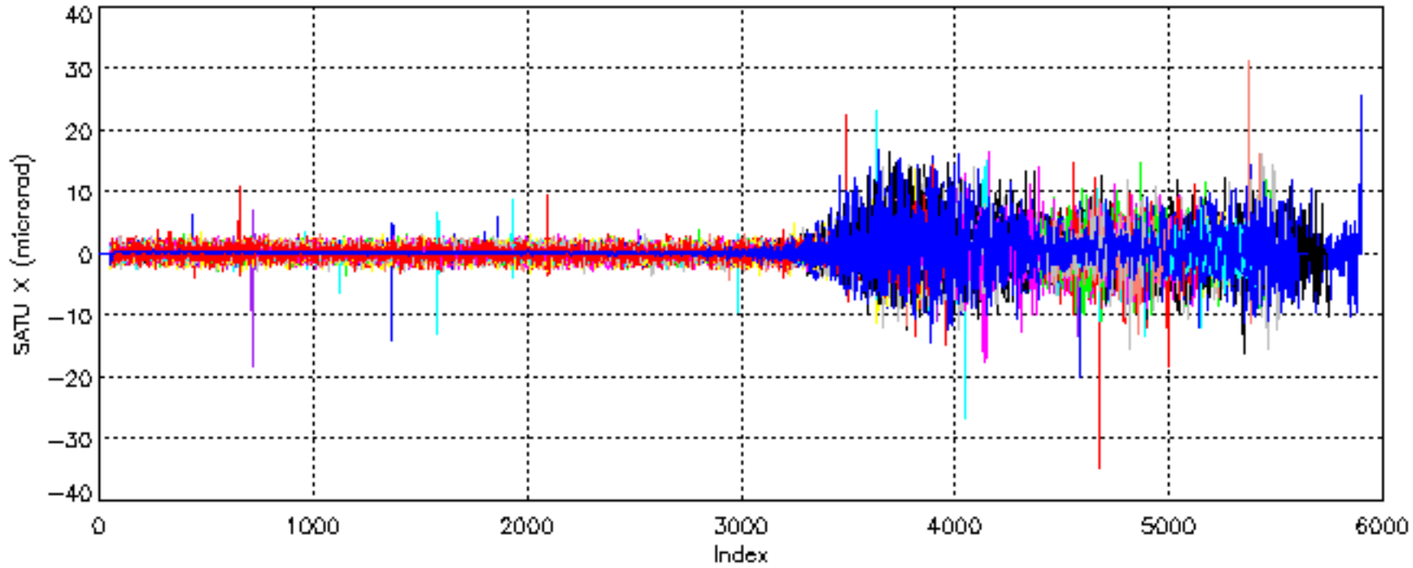


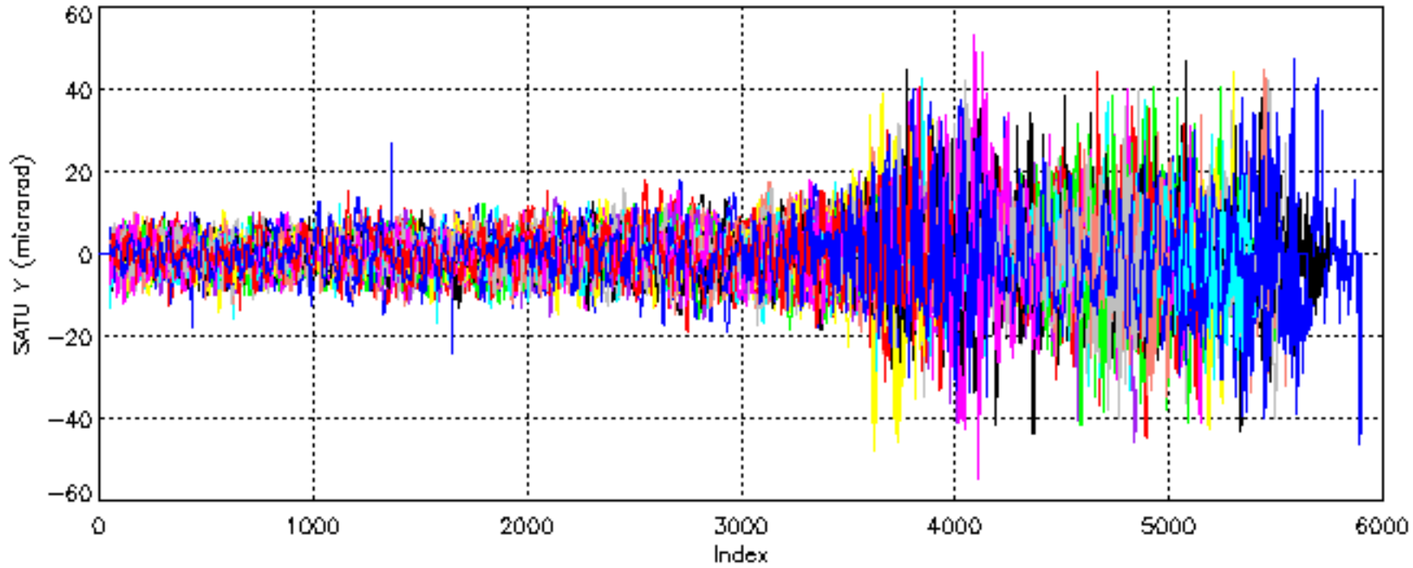
Tangent altitude at which the star is lost

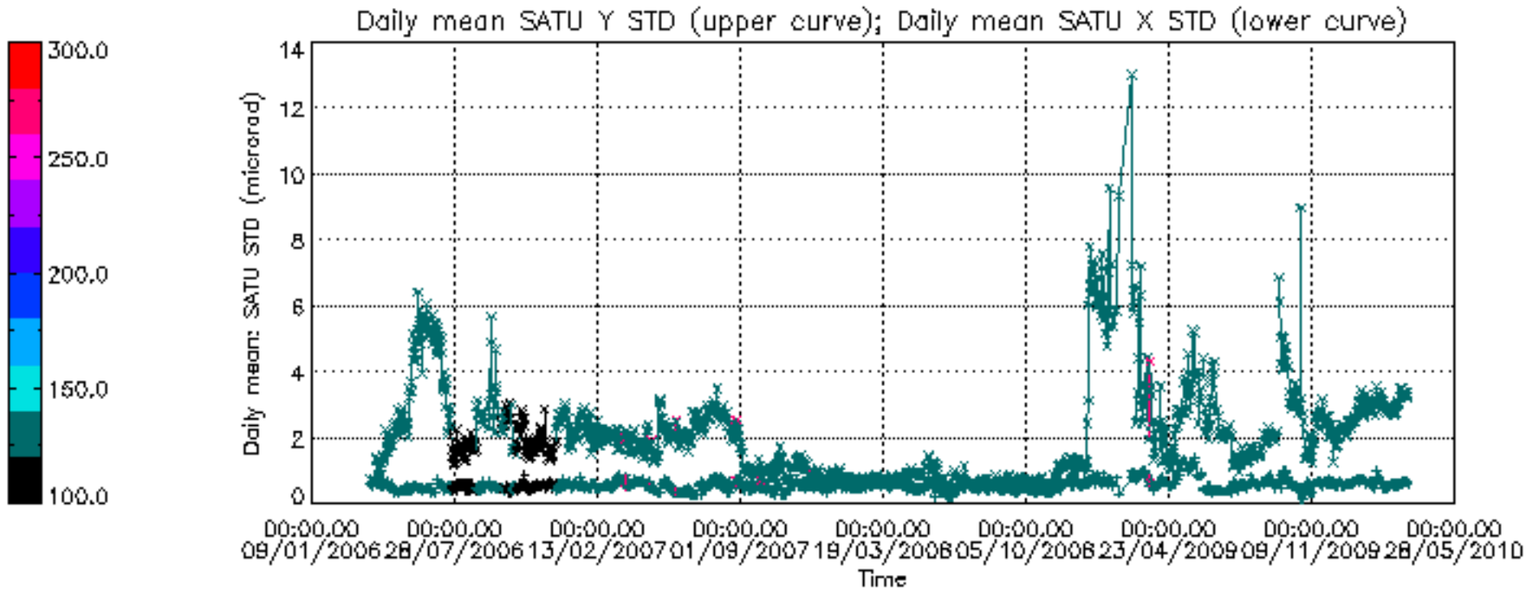







40
30
20
10
0
−10
−20
−30
−40
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
Index


60
40
20
0
−20
−40
−60
S4TU Y (microrad)
0
1000
2000
3000
4000
5000
6000
Index


300.0
250.0
200.0
150.0
100.0
Daily mean SATU Y STD (upper curve); Daily mean SATU X STD (lower curve)
Daily mean: SATU STD (microrad)
14
12
10
8
6
4
2
0
00:00.00 09/01/2006
00:00.00 28/07/2006
00:00.00 13/02/2007
00:00.00 01/09/2007
00:00.00 19/03/2008
00:00.00 05/10/2008
00:00.00 23/04/2009
00:00.00 09/11/2009
00:00.00 28/05/2010
Time

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   7;  535.8; 04-MAR-2010 01:26:37; Dark  ;  48.5;   10;   Bet Cen  ; 0.61; 28000;occ;  97;   0;41869
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  11; 4043.0; 10-MAR-2010 19:22:33; Bright;  46.5;   69; 33Gam Dra  ; 2.23;  3800;occ;  93;   0;41965
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   5;  198.4; 15-MAR-2010 00:35:00; Dark  ;  30.0;   75; 26Eps Sco  ; 2.29;  4250;occ;  60;   0;42026
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   7;  622.9; 15-MAR-2010 02:22:41; Dark  ;  50.0;   10;   Bet Cen  ; 0.61; 28000;occ; 100;   0;42027
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  10;  201.4; 15-MAR-2010 03:56:15; Dark  ;  27.0;   75; 26Eps Sco  ; 2.29;  4250;occ;  54;   0;42028
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  10; 3096.9; 21-MAR-2010 21:42:00; Bright;  46.5;   55; 79Zet UMa  ; 2.06; 10200;occ;  93;   0;42124
  11; 3388.3; 21-MAR-2010 21:46:51; Bright;  42.5;   60;  7Bet UMi  ; 2.08;  3950;occ;  85;   0;42124
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  16; 2189.9; 21-MAR-2010 23:07:29; Bright;  43.0;   62; 94Bet Leo  ; 2.14;  9700;occ;  86;   0;42125
  17; 2688.5; 21-MAR-2010 23:15:47; Bright;  39.5;  174; 52Psi UMa  ; 3.00;  4400;occ;  79;   0;42125
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  19; 2975.3; 21-MAR-2010 23:20:34; Bright;  42.5;   36; 50Alp UMa  ; 1.80;  6300;occ;  85;   0;42125
  20; 3096.4; 21-MAR-2010 23:22:35; Bright;  46.5;   55; 79Zet UMa  ; 2.06; 10200;occ;  93;   0;42125
  21; 3387.9; 21-MAR-2010 23:27:27; Bright;  42.0;   60;  7Bet UMi  ; 2.08;  3950;occ;  84;   0;42125
  22; 3610.6; 21-MAR-2010 23:31:10; Bright;  50.0;  119; 14Eta Dra  ; 2.73;  4700;occ; 100;   0;42125
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   2; -318.8; 22-MAR-2010 01:46:52; Dark  ;  48.5;   57; 34Sig Sgr  ; 2.07; 26000;occ;  97;   0;42126
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   5;  229.2; 22-MAR-2010 01:56:00; Dark  ;  42.0;  141;   Bet Ara  ; 2.84;  4600;occ;  84;   0;42127
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  13; 1463.4; 22-MAR-2010 02:16:34; Dark  ;  49.0;  171;  2Eps Crv  ; 3.00;  4250;occ;  98;   0;42127
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  17; 2682.6; 23-MAR-2010 22:12:28; Bright;  38.5;  174; 52Psi UMa  ; 3.00;  4400;occ;  77;   0;42153
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   9; 3059.5; 25-MAR-2010 14:33:07; Bright;  45.0;   55; 79Zet UMa  ; 2.06; 10200;occ;  90;   0;42177
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   8; 2677.4; 25-MAR-2010 19:28:32; Bright;  37.0;  174; 52Psi UMa  ; 3.00;  4400;occ;  74;   0;42180
   9; 2875.5; 25-MAR-2010 19:31:51; Bright;  37.5;   82; 48Bet UMa  ; 2.37; 10600;occ;  75;   0;42180
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  14; 4214.8; 25-MAR-2010 19:54:10; Bright;  41.5;   19; 50Alp Cyg  ; 1.25; 10500;occ;  83;   0;42180
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   5; 2668.1; 30-MAR-2010 13:29:06; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72;   0;42248
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   3;   45.8; 31-MAR-2010 00:29:35; Dark  ;  52.5;   38; 20Eps Sgr  ; 1.84; 11000;occ; 105;   0;42255
   4;  297.4; 31-MAR-2010 00:33:47; Dark  ;  32.0;   25; 35Lam Sco  ; 1.62; 28000;occ;  64;   0;42255
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  17; 2162.2; 31-MAR-2010 04:26:03; Bright;  41.0;   62; 94Bet Leo  ; 2.14;  9700;occ;  82;   0;42257
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