GOMOS Daily Report 05-DEC-2009

Level 0 and Level 1 products

SUMMARY

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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.

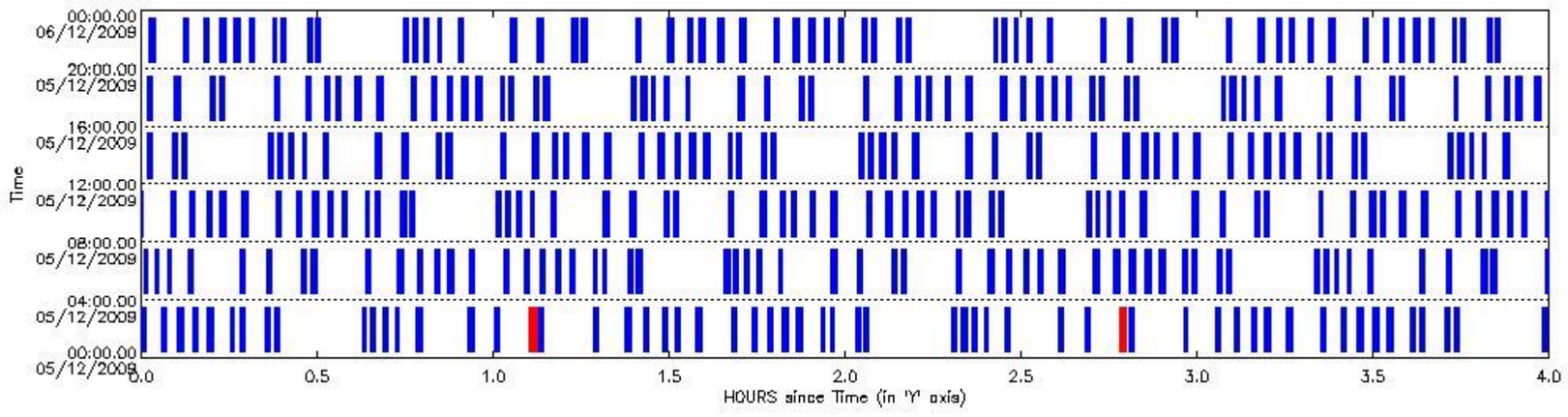
Item	Value
Time of report generation	08DEC2009 04:54:14
Data source version	GOMOS/5.00L04
Start time of products	05DEC2009 00:03:22
Stop time of products	05DEC2009 23:50:50
Store outputs in DB	Yes
Nb of level 1b prods	155
Nb of prods with errors	0

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-DEC-2009 01:06:10	4GamCrv	100	40594
05-DEC-2009 02:46:47	4GamCrv	100	40595

2.4 Summary of processed GOM_TRA_1P products

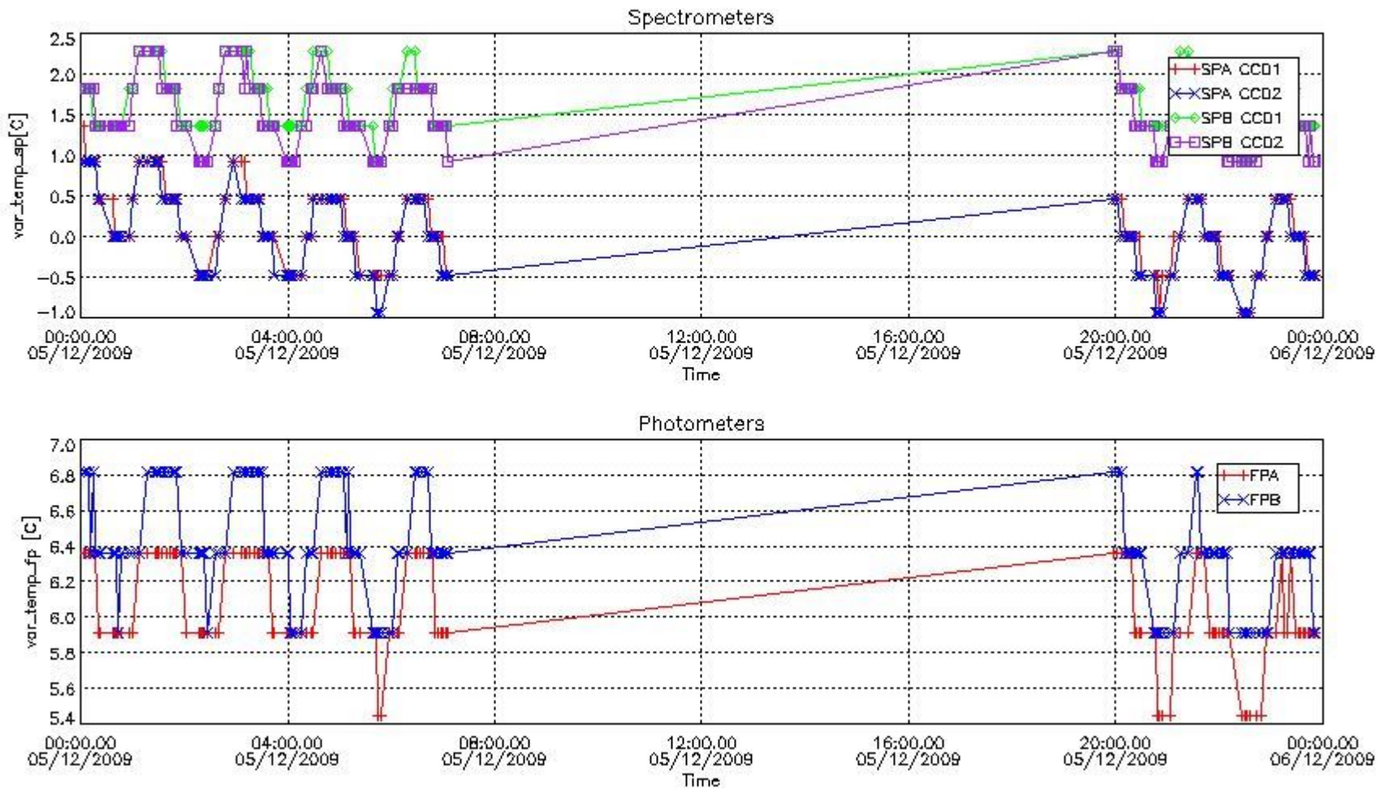
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091205_000322_000000562084_00460_40594_6428.N1	05-DEC-2009 00:03:22	Straylight	55.500	7	19Bet Ori	0.10000	14000.	111	40594	No
2	GOM_TRA_1PNPDE20091205_000607_000000602084_00460_40594_6429.N1	05-DEC-2009 00:06:07	Twi_and_stray	59.500	30	46Eps Ori	1.6940	30000.	119	40594	No
3	GOM_TRA_1PNPDE20091205_000843_000000572084_00460_40594_6430.N1	05-DEC-2009 00:08:43	Twi_and_stray	56.500	27	24Gam Ori	1.6360	26000.	113	40594	No
4	GOM_TRA_1PNPDE20091205_001107_000000602084_00460_40594_6431.N1	05-DEC-2009 00:11:07	Bright	60.000	13	87Alp Tau	0.86700	3800.0	120	40594	No
5	GOM_TRA_1PNPDE20091205_001513_000000372084_00460_40594_6432.N1	05-DEC-2009 00:15:13	Bright	36.500	150	44Zet Per	2.8900	28000.	73	40594	No
6	GOM_TRA_1PNPDE20091205_001646_000000462084_00460_40594_6433.N1	05-DEC-2009 00:16:46	Bright	45.500	114	3Iot Aur	2.6930	4600.0	91	40594	No
7	GOM_TRA_1PNPDE20091205_002106_000000502084_00460_40594_6434.N1	05-DEC-2009 00:21:06	Bright	49.500	6	13Alp Aur	0.080000	3400.0	99	40594	No
8	GOM_TRA_1PNPDE20091205_002239_000000502084_00460_40594_6435.N1	05-DEC-2009 00:22:39	Bright	50.000	42	34Bet Aur	1.9000	10200.	100	40594	No
9	GOM_TRA_1PNPDE20091205_003733_000000442084_00460_40594_6436.N1	05-DEC-2009 00:37:33	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	40594	No

10	GOM_TRA_1PNPDE20091205_003907_000000472084_00460_40594_6437.N1	05-DEC-2009 00:39:07	Bright	47.000	82	48Bet UMa	2.3650	10600.	94	40594	No
11	GOM_TRA_1PNPDE20091205_004101_000000582084_00460_40594_6438.N1	05-DEC-2009 00:41:01	Bright	58.000	32	77Eps UMa	1.7630	11000.	116	40594	No
12	GOM_TRA_1PNPDE20091205_004313_000000362084_00460_40594_6439.N1	05-DEC-2009 00:43:13	Bright	35.500	39	85Eta UMa	1.8540	24000.	71	40594	No
13	GOM_TRA_1PNPDE20091205_004644_000000602084_00460_40594_6440.N1	05-DEC-2009 00:46:44	Bright	60.000	152	12Alp2CVn	2.8900	11000.	120	40594	No
14	GOM_TRA_1PNPDE20091205_005536_000000612084_00460_40594_6441.N1	05-DEC-2009 00:55:36	Bright	61.000	138	47Eps Vir	2.8280	4700.0	122	40594	No
15	GOM_TRA_1PNPDE20091205_010009_000000452084_00460_40594_6442.N1	05-DEC-2009 01:00:09	Bright	45.000	121	29Gam Vir	2.7400	7200.0	90	40594	No
16	GOM_TRA_1PNPDE20091205_010738_000000512084_00460_40594_6441.N1	05-DEC-2009 01:07:38	Dark	51.000	171	2Eps Crv	3.0010	4250.0	102	40594	No
17	GOM_TRA_1PNPDE20091205_011702_000000532084_00461_40595_6442.N1	05-DEC-2009 01:17:02	Dark	53.000	113	Mu Vel	2.6920	5000.0	106	40595	No
18	GOM_TRA_1PNPDE20091205_012543_000000492084_00461_40595_6443.N1	05-DEC-2009 01:25:43	Dark	49.000	34	Gam2Vel	1.7930	23000.	98	40595	No
19	GOM_TRA_1PNPDE20091205_012844_000000482084_00461_40595_6444.N1	05-DEC-2009 01:28:44	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	40595	No
20	GOM_TRA_1PNPDE20091205_013054_000000612084_00461_40595_6445.N1	05-DEC-2009 01:30:54	Dark	60.500	117	Pi Pup	2.7060	3800.0	121	40595	No
21	GOM_TRA_1PNPDE20091205_013433_000000642084_00461_40595_6446.N1	05-DEC-2009 01:34:33	Dark	63.500	23	21Eps CMa	1.5020	26000.	127	40595	No
22	GOM_TRA_1PNPDE20091205_014032_000000522084_00461_40595_6447.N1	05-DEC-2009 01:40:32	Straylight	52.000	101	11Alp Lep	2.5820	7000.0	104	40595	No
23	GOM_TRA_1PNPDE20091205_014358_000000572084_00461_40595_6448.N1	05-DEC-2009 01:43:58	Straylight	56.500	7	19Bet Ori	0.10000	14000.	113	40595	No
24	GOM_TRA_1PNPDE20091205_014643_000000592084_00461_40595_6449.N1	05-DEC-2009 01:46:43	Twi_and_stray	58.500	30	46Eps Ori	1.6940	30000.	117	40595	No
25	GOM_TRA_1PNPDE20091205_014918_000000562084_00461_40595_6450.N1	05-DEC-2009 01:49:18	Twi_and_stray	56.000	27	24Gam Ori	1.6360	26000.	112	40595	No
26	GOM_TRA_1PNPDE20091205_015143_000000602084_00461_40595_6451.N1	05-DEC-2009 01:51:43	Bright	60.000	13	87Alp Tau	0.86700	3800.0	120	40595	No
27	GOM_TRA_1PNPDE20091205_015548_000000372084_00461_40595_6452.N1	05-DEC-2009 01:55:48	Bright	37.000	150	44Zet Per	2.8900	28000.	74	40595	No
28	GOM_TRA_1PNPDE20091205_015721_000000462084_00461_40595_6453.N1	05-DEC-2009 01:57:21	Bright	45.500	114	3Iot Aur	2.6930	4600.0	91	40595	No
29	GOM_TRA_1PNPDE20091205_020141_000000482084_00461_40595_6454.N1	05-DEC-2009 02:01:41	Bright	48.000	6	13Alp Aur	0.080000	3400.0	96	40595	No
30	GOM_TRA_1PNPDE20091205_020314_000000492084_00461_40595_6455.N1	05-DEC-2009 02:03:14	Bright	48.500	42	34Bet Aur	1.9000	10200.	97	40595	No
31	GOM_TRA_1PNPDE20091205_021808_000000462084_00461_40595_6456.N1	05-DEC-2009 02:18:08	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	40595	No
32	GOM_TRA_1PNPDE20091205_021942_000000692084_00461_40595_6457.N1	05-DEC-2009 02:19:42	Bright	69.000	82	48Bet UMa	2.3650	10600.	138	40595	No
33	GOM_TRA_1PNPDE20091205_022137_000000432084_00461_40595_6458.N1	05-DEC-2009 02:21:37	Bright	42.500	32	77Eps UMa	1.7630	11000.	85	40595	No
34	GOM_TRA_1PNPDE20091205_022349_000000362084_00461_40595_6451.N1	05-DEC-2009 02:23:49	Bright	35.500	39	85Eta UMa	1.8540	24000.	71	40595	No
35	GOM_TRA_1PNPDE20091205_022719_000000402084_00461_40595_6452.N1	05-DEC-2009 02:27:19	Bright	39.500	152	12Alp2CVn	2.8900	11000.	79	40595	No
36	GOM_TRA_1PNPDE20091205_023612_000000612084_00461_40595_6453.N1	05-DEC-2009 02:36:12	Bright	61.000	138	47Eps Vir	2.8280	4700.0	122	40595	No
37	GOM_TRA_1PNPDE20091205_024046_000000502084_00461_40595_6454.N1	05-DEC-2009 02:40:46	Bright	49.500	121	29Gam Vir	2.7400	7200.0	99	40595	No
38	GOM_TRA_1PNPDE20091205_024815_000000522084_00461_40595_6455.N1	05-DEC-2009 02:48:15	Dark	51.500	171	2Eps Crv	3.0010	4250.0	103	40595	No
39	GOM_TRA_1PNPDE20091205_025739_000000432084_00462_40596_6456.N1	05-DEC-2009 02:57:39	Dark	43.000	113	Mu Vel	2.6920	5000.0	86	40596	No
40	GOM_TRA_1PNPDE20091205_030620_000000472084_00462_40596_6457.N1	05-DEC-2009 03:06:20	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40596	No
41	GOM_TRA_1PNPDE20091205_030921_000000462084_00462_40596_6458.N1	05-DEC-2009 03:09:21	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	40596	No
42	GOM_TRA_1PNPDE20091205_031130_000000582084_00462_40596_6459.N1	05-DEC-2009 03:11:30	Dark	58.000	117	Pi Pup	2.7060	3800.0	116	40596	No
43	GOM_TRA_1PNPDE20091205_031510_000000642084_00462_40596_6460.N1	05-DEC-2009 03:15:10	Dark	63.500	23	21Eps CMa	1.5020	26000.	127	40596	No
44	GOM_TRA_1PNPDE20091205_032108_000000512084_00462_40596_6461.N1	05-DEC-2009 03:21:08	Straylight	50.500	101	11Alp Lep	2.5820	7000.0	101	40596	No
45	GOM_TRA_1PNPDE20091205_032433_000000552084_00462_40596_6462.N1	05-DEC-2009 03:24:33	Straylight	55.000	7	19Bet Ori	0.10000	14000.	110	40596	No
46	GOM_TRA_1PNPDE20091205_032718_000000582084_00462_40596_6463.N1	05-DEC-2009 03:27:18	Twi_and_stray	58.000	30	46Eps Ori	1.6940	30000.	116	40596	No
47	GOM_TRA_1PNPDE20091205_032954_000000592084_00462_40596_6464.N1	05-DEC-2009 03:29:54	Twi_and_stray	58.500	27	24Gam Ori	1.6360	26000.	117	40596	No
48	GOM_TRA_1PNPDE20091205_033219_000000592084_00462_40596_6465.N1	05-DEC-2009 03:32:19	Bright	59.000	13	87Alp Tau	0.86700	3800.0	118	40596	No
49	GOM_TRA_1PNPDE20091205_033624_000000392084_00462_40596_6466.N1	05-DEC-2009 03:36:24	Bright	39.000	150	44Zet Per	2.8900	28000.	78	40596	No
50	GOM_TRA_1PNPDE20091205_033757_000000452084_00462_40596_6467.N1	05-DEC-2009 03:37:57	Bright	45.000	114	3Iot Aur	2.6930	4600.0	90	40596	No
51	GOM_TRA_1PNPDE20091205_034216_000000452084_00462_40596_6468.N1	05-DEC-2009 03:42:16	Bright	44.500	6	13Alp Aur	0.080000	3400.0	89	40596	No
52	GOM_TRA_1PNPDE20091205_034349_000000492084_00462_40596_6469.N1	05-DEC-2009 03:43:49	Bright	48.500	42	34Bet Aur	1.9000	10200.	97	40596	No
53	GOM_TRA_1PNPDE20091205_035844_000000502084_00462_40596_6459.N1	05-DEC-2009 03:58:44	Bright	49.500	36	50Alp UMa	1.8000	6300.0	99	40596	No
54	GOM_TRA_1PNPDE20091205_040018_000000462084_00462_40596_6460.N1	05-DEC-2009 04:00:18	Bright	46.000	82	48Bet UMa	2.3650	10600.	92	40596	No
55	GOM_TRA_1PNPDE20091205_040213_000000392084_00462_40596_6461.N1	05-DEC-2009 04:02:13	Bright	39.000	32	77Eps UMa	1.7630	11000.	78	40596	No
56	GOM_TRA_1PNPDE20091205_040425_000000392084_00462_40596_6462.N1	05-DEC-2009 04:04:25	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	40596	No
57	GOM_TRA_1PNPDE20091205_040756_000000412084_00462_40596_6463.N1	05-DEC-2009 04:07:56	Bright	41.000	152	12Alp2CVn	2.8900	11000.	82	40596	No
58	GOM_TRA_1PNPDE20091205_041649_000000402084_00462_40596_6464.N1	05-DEC-2009 04:16:49	Bright	39.500	138	47Eps Vir	2.8280	4700.0	79	40596	No
59	GOM_TRA_1PNPDE20091205_042122_000000522084_00462_40596_6465.N1	05-DEC-2009 04:21:22	Bright	51.500	121	29Gam Vir	2.7400	7200.0	103	40596	No
60	GOM_TRA_1PNPDE20091205_042716_000000512084_00462_40596_6466.N1	05-DEC-2009 04:27:16	Dark	51.000	100	4Gam Crv	2.5800	13100.	102	40596	No
61	GOM_TRA_1PNPDE20091205_042852_000000542084_00462_40596_6467.N1	05-DEC-2009 04:28:52	Dark	54.000	171	2Eps Crv	3.0010	4250.0	108	40596	No
62	GOM_TRA_1PNPDE20091205_043816_000000442084_00463_40597_6468.N1	05-DEC-2009 04:38:16	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	40597	No
63	GOM_TRA_1PNPDE20091205_044657_000000522084_00463_40597_6469.N1	05-DEC-2009 04:46:57	Dark	51.500	34	Gam2Vel	1.7930	23000.	103	40597	No
64	GOM_TRA_1PNPDE20091205_044957_000000572084_00463_40597_6470.N1	05-DEC-2009 04:49:57	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	40597	No
65	GOM_TRA_1PNPDE20091205_045207_000000592084_00463_40597_6471.N1	05-DEC-2009 04:52:07	Dark	58.500	117	Pi Pup	2.7060	3800.0	117	40597	No
66	GOM_TRA_1PNPDE20091205_045546_000000612084_00463_40597_6472.N1	05-DEC-2009 04:55:46	Dark	61.000	23	21Eps CMa	1.5020	26000.	122	40597	No
67	GOM_TRA_1PNPDE20091205_050144_000000512084_00463_40597_6473.N1	05-DEC-2009 05:01:44	Straylight	50.500	101	11Alp Lep	2.5820	7000.0	101	40597	No
68	GOM_TRA_1PNPDE20091205_050509_000000532084_00463_40597_6474.N1	05-DEC-2009 05:05:09	Straylight	52.500	7	19Bet Ori	0.10000	14000.	105	40597	No

69	GOM_TRA_1PNPDE20091205_050754_000000592084_00463_40597_6475.N1	05-DEC-2009 05:07:54	Straylight	58.500	30	46Eps Ori	1.6940	30000.	117	40597	No
70	GOM_TRA_1PNPDE20091205_051029_000000592084_00463_40597_6476.N1	05-DEC-2009 05:10:29	Twi_and_stray	58.500	27	24Gam Ori	1.6360	26000.	117	40597	No
71	GOM_TRA_1PNPDE20091205_051254_000000592084_00463_40597_6477.N1	05-DEC-2009 05:12:54	Bright	59.000	13	87Alp Tau	0.86700	3800.0	118	40597	No
72	GOM_TRA_1PNPDE20091205_051700_000000382084_00463_40597_6478.N1	05-DEC-2009 05:17:00	Bright	38.000	150	44Zet Per	2.8900	28000.	76	40597	No
73	GOM_TRA_1PNPDE20091205_051833_000000452084_00463_40597_6479.N1	05-DEC-2009 05:18:33	Bright	44.500	114	3Iot Aur	2.6930	4600.0	89	40597	No
74	GOM_TRA_1PNPDE20091205_052252_000000472084_00463_40597_6480.N1	05-DEC-2009 05:22:52	Bright	46.500	6	13Alp Aur	0.080000	3400.0	93	40597	No
75	GOM_TRA_1PNPDE20091205_052424_000000492084_00463_40597_6481.N1	05-DEC-2009 05:24:24	Bright	49.000	42	34Bet Aur	1.9000	10200.	98	40597	No
76	GOM_TRA_1PNPDE20091205_053919_000000552084_00463_40597_6466.N1	05-DEC-2009 05:39:19	Bright	55.000	36	50Alp UMa	1.8000	6300.0	110	40597	No
77	GOM_TRA_1PNPDE20091205_054054_000000492084_00463_40597_6467.N1	05-DEC-2009 05:40:54	Bright	48.500	82	48Bet UMa	2.3650	10600.	97	40597	No
78	GOM_TRA_1PNPDE20091205_054249_000000412084_00463_40597_6468.N1	05-DEC-2009 05:42:49	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	40597	No
79	GOM_TRA_1PNPDE20091205_054501_000000372084_00463_40597_6469.N1	05-DEC-2009 05:45:01	Bright	37.000	39	85Eta UMa	1.8540	24000.	74	40597	No
80	GOM_TRA_1PNPDE20091205_054831_000000392084_00463_40597_6470.N1	05-DEC-2009 05:48:31	Bright	38.500	152	12Alp2CVn	2.8900	11000.	77	40597	No
81	GOM_TRA_1PNPDE20091205_055725_000000622084_00463_40597_6471.N1	05-DEC-2009 05:57:25	Bright	62.000	138	47Eps Vir	2.8280	4700.0	124	40597	No
82	GOM_TRA_1PNPDE20091205_060159_000000522084_00463_40597_6472.N1	05-DEC-2009 06:01:59	Bright	51.500	121	29Gam Vir	2.7400	7200.0	103	40597	No
83	GOM_TRA_1PNPDE20091205_060753_000000522084_00463_40597_6473.N1	05-DEC-2009 06:07:53	Dark	51.500	100	4Gam Crv	2.5800	13100.	103	40597	No
84	GOM_TRA_1PNPDE20091205_060929_000000512084_00463_40597_6474.N1	05-DEC-2009 06:09:29	Dark	51.000	171	2Eps Crv	3.0010	4250.0	102	40597	No
85	GOM_TRA_1PNPDE20091205_061853_000000452084_00464_40598_6475.N1	05-DEC-2009 06:18:53	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	40598	No
86	GOM_TRA_1PNPDE20091205_062734_000000522084_00464_40598_6476.N1	05-DEC-2009 06:27:34	Dark	51.500	34	Gam2Vel	1.7930	23000.	103	40598	No
87	GOM_TRA_1PNPDE20091205_063034_000000482084_00464_40598_6477.N1	05-DEC-2009 06:30:34	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	40598	No
88	GOM_TRA_1PNPDE20091205_063244_000000592084_00464_40598_6478.N1	05-DEC-2009 06:32:44	Dark	58.500	117	Pi Pup	2.7060	3800.0	117	40598	No
89	GOM_TRA_1PNPDE20091205_063623_000000632084_00464_40598_6479.N1	05-DEC-2009 06:36:23	Dark	62.500	23	21Eps CMa	1.5020	26000.	125	40598	No
90	GOM_TRA_1PNPDE20091205_064220_000000522084_00464_40598_6480.N1	05-DEC-2009 06:42:20	Straylight	51.500	101	11Alp Lep	2.5820	7000.0	103	40598	No
91	GOM_TRA_1PNPDE20091205_064545_000000572084_00464_40598_6481.N1	05-DEC-2009 06:45:45	Straylight	56.500	7	19Bet Ori	0.10000	14000.	113	40598	No
92	GOM_TRA_1PNPDE20091205_064829_000000582084_00464_40598_6482.N1	05-DEC-2009 06:48:29	Straylight	58.000	30	46Eps Ori	1.6940	30000.	116	40598	No
93	GOM_TRA_1PNPDE20091205_065105_000000572084_00464_40598_6483.N1	05-DEC-2009 06:51:05	Twi_and_stray	57.000	27	24Gam Ori	1.6360	26000.	114	40598	No
94	GOM_TRA_1PNPDE20091205_065330_000000552084_00464_40598_6484.N1	05-DEC-2009 06:53:30	Bright	55.000	13	87Alp Tau	0.86700	3800.0	110	40598	No
95	GOM_TRA_1PNPDE20091205_065736_000000382084_00464_40598_6485.N1	05-DEC-2009 06:57:36	Bright	38.000	150	44Zet Per	2.8900	28000.	76	40598	No
96	GOM_TRA_1PNPDE20091205_065908_000000462084_00464_40598_6486.N1	05-DEC-2009 06:59:08	Bright	45.500	114	3Iot Aur	2.6930	4600.0	91	40598	No
97	GOM_TRA_1PNPDE20091205_070327_000000482084_00464_40598_6487.N1	05-DEC-2009 07:03:27	Bright	48.000	6	13Alp Aur	0.080000	3400.0	96	40598	No
98	GOM_TRA_1PNPDE20091205_070459_000000482084_00464_40598_6488.N1	05-DEC-2009 07:04:59	Bright	47.500	42	34Bet Aur	1.9000	10200.	95	40598	No
99	GOM_TRA_1PNPDE20091205_195737_000000582084_00472_40606_6522.N1	05-DEC-2009 19:57:37	Dark	57.500	117	Pi Pup	2.7060	3800.0	115	40606	No
100	GOM_TRA_1PNPDE20091205_200115_000000632084_00472_40606_6523.N1	05-DEC-2009 20:01:15	Dark	62.500	23	21Eps CMa	1.5020	26000.	125	40606	No
101	GOM_TRA_1PNPDE20091205_200709_000000512084_00472_40606_6524.N1	05-DEC-2009 20:07:09	Straylight	51.000	101	11Alp Lep	2.5820	7000.0	102	40606	No
102	GOM_TRA_1PNPDE20091205_201032_000000532084_00472_40606_6525.N1	05-DEC-2009 20:10:32	Straylight	53.000	7	19Bet Ori	0.10000	14000.	106	40606	No
103	GOM_TRA_1PNPDE20091205_201315_000000602084_00472_40606_6526.N1	05-DEC-2009 20:13:15	Straylight	60.000	30	46Eps Ori	1.6940	30000.	120	40606	No
104	GOM_TRA_1PNPDE20091205_201549_000000542084_00472_40606_6527.N1	05-DEC-2009 20:15:49	Twi_and_stray	54.000	27	24Gam Ori	1.6360	26000.	108	40606	No
105	GOM_TRA_1PNPDE20091205_201816_000000542084_00472_40606_6528.N1	05-DEC-2009 20:18:16	Bright	53.500	13	87Alp Tau	0.86700	3800.0	107	40606	No
106	GOM_TRA_1PNPDE20091205_202222_000000372084_00472_40606_6529.N1	05-DEC-2009 20:22:22	Bright	36.500	150	44Zet Per	2.8900	28000.	73	40606	No
107	GOM_TRA_1PNPDE20091205_202352_000000442084_00472_40606_6530.N1	05-DEC-2009 20:23:52	Bright	44.000	114	3Iot Aur	2.6930	4600.0	88	40606	No
108	GOM_TRA_1PNPDE20091205_202810_000000502084_00472_40606_6531.N1	05-DEC-2009 20:28:10	Bright	49.500	6	13Alp Aur	0.080000	3400.0	99	40606	No
109	GOM_TRA_1PNPDE20091205_202940_000000482084_00472_40606_6532.N1	05-DEC-2009 20:29:40	Bright	48.000	42	34Bet Aur	1.9000	10200.	96	40606	No
110	GOM_TRA_1PNPDE20091205_204439_000000492084_00472_40606_6533.N1	05-DEC-2009 20:44:39	Bright	49.000	36	50Alp UMa	1.8000	6300.0	98	40606	No
111	GOM_TRA_1PNPDE20091205_204613_000000512084_00472_40606_6534.N1	05-DEC-2009 20:46:13	Bright	50.500	82	48Bet UMa	2.3650	10600.	101	40606	No
112	GOM_TRA_1PNPDE20091205_204811_000000422084_00472_40606_6535.N1	05-DEC-2009 20:48:11	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	40606	No
113	GOM_TRA_1PNPDE20091205_205025_000000402084_00472_40606_6536.N1	05-DEC-2009 20:50:25	Bright	40.000	39	85Eta UMa	1.8540	24000.	80	40606	No
114	GOM_TRA_1PNPDE20091205_205355_000000612084_00472_40606_6537.N1	05-DEC-2009 20:53:55	Bright	61.000	152	12Alp2CVn	2.8900	11000.	122	40606	No
115	GOM_TRA_1PNPDE20091205_210252_000000622084_00472_40606_6538.N1	05-DEC-2009 21:02:52	Bright	61.500	138	47Eps Vir	2.8280	4700.0	123	40606	No
116	GOM_TRA_1PNPDE20091205_210728_000000532084_00472_40606_6543.N1	05-DEC-2009 21:07:28	Bright	53.000	121	29Gam Vir	2.7400	7200.0	106	40606	No
117	GOM_TRA_1PNPDE20091205_211324_000000522084_00472_40606_6544.N1	05-DEC-2009 21:13:24	Dark	51.500	100	4Gam Crv	2.5800	13100.	103	40606	No
118	GOM_TRA_1PNPDE20091205_211501_000000562084_00472_40606_6545.N1	05-DEC-2009 21:15:01	Dark	56.000	171	2Eps Crv	3.0010	4250.0	112	40606	No
119	GOM_TRA_1PNPDE20091205_212424_000000472084_00473_40607_6546.N1	05-DEC-2009 21:24:24	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	40607	No
120	GOM_TRA_1PNPDE20091205_213305_000000522084_00473_40607_6547.N1	05-DEC-2009 21:33:05	Dark	51.500	34	Gam2Vel	1.7930	23000.	103	40607	No
121	GOM_TRA_1PNPDE20091205_213500_000000572084_00473_40607_6548.N1	05-DEC-2009 21:35:00	Dark	56.500	70	Zet Pup	2.2460	39000.	113	40607	No
122	GOM_TRA_1PNPDE20091205_213814_000000582084_00473_40607_6549.N1	05-DEC-2009 21:38:14	Dark	57.500	117	Pi Pup	2.7060	3800.0	115	40607	No
123	GOM_TRA_1PNPDE20091205_214151_000000642084_00473_40607_6550.N1	05-DEC-2009 21:41:51	Dark	64.000	23	21Eps CMa	1.5020	26000.	128	40607	No
124	GOM_TRA_1PNPDE20091205_214745_000000522084_00473_40607_6551.N1	05-DEC-2009 21:47:45	Straylight	51.500	101	11Alp Lep	2.5820	7000.0	103	40607	No
125	GOM_TRA_1PNPDE20091205_215108_000000542084_00473_40607_6552.N1	05-DEC-2009 21:51:08	Straylight	54.000	7	19Bet Ori	0.10000	14000.	108	40607	No
126	GOM_TRA_1PNPDE20091205_215350_000000582084_00473_40607_6553.N1	05-DEC-2009 21:53:50	Straylight	57.500	30	46Eps Ori	1.6940	30000.	115	40607	No
127	GOM_TRA_1PNPDE20091205_215624_000000562084_00473_40607_6554.N1	05-DEC-2009 21:56:24	Twi_and_stray	55.500	27	24Gam Ori	1.6360	26000.	111	40607	No

128	GOM_TRA_1PNPDE20091205_215851_000000512084_00473_40607_6555.N1	05-DEC-2009 21:58:51	Bright	50.500	13	87Alp Tau	0.86700	3800.0	101	40607	No
129	GOM_TRA_1PNPDE20091205_220258_000000382084_00473_40607_6556.N1	05-DEC-2009 22:02:58	Bright	38.000	150	44Zet Per	2.8900	28000.	76	40607	No
130	GOM_TRA_1PNPDE20091205_220427_000000442084_00473_40607_6557.N1	05-DEC-2009 22:04:27	Bright	43.500	114	3Iot Aur	2.6930	4600.0	87	40607	No
131	GOM_TRA_1PNPDE20091205_220845_000000472084_00473_40607_6558.N1	05-DEC-2009 22:08:45	Bright	47.000	6	13Alp Aur	0.080000	3400.0	94	40607	No
132	GOM_TRA_1PNPDE20091205_221015_000000472084_00473_40607_6559.N1	05-DEC-2009 22:10:15	Bright	47.000	42	34Bet Aur	1.9000	10200.	94	40607	No
133	GOM_TRA_1PNPDE20091205_222515_000000472084_00473_40607_6560.N1	05-DEC-2009 22:25:15	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	40607	No
134	GOM_TRA_1PNPDE20091205_222648_000000482084_00473_40607_6561.N1	05-DEC-2009 22:26:48	Bright	47.500	82	48Bet UMa	2.3650	10600.	95	40607	No
135	GOM_TRA_1PNPDE20091205_222847_000000422084_00473_40607_6562.N1	05-DEC-2009 22:28:47	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	40607	No
136	GOM_TRA_1PNPDE20091205_223100_000000412084_00473_40607_6563.N1	05-DEC-2009 22:31:00	Bright	40.500	39	85Eta UMa	1.8540	24000.	81	40607	No
137	GOM_TRA_1PNPDE20091205_223431_000000432084_00473_40607_6564.N1	05-DEC-2009 22:34:31	Bright	42.500	152	12Alp2CVn	2.8900	11000.	85	40607	No
138	GOM_TRA_1PNPDE20091205_224329_000000532084_00473_40607_6565.N1	05-DEC-2009 22:43:29	Bright	52.500	138	47Eps Vir	2.8280	4700.0	105	40607	No
139	GOM_TRA_1PNPDE20091205_224805_000000542084_00473_40607_6566.N1	05-DEC-2009 22:48:05	Bright	53.500	121	29Gam Vir	2.7400	7200.0	107	40607	No
140	GOM_TRA_1PNPDE20091205_225401_000000512084_00473_40607_6567.N1	05-DEC-2009 22:54:01	Dark	50.500	100	4Gam Crv	2.5800	13100.	101	40607	No
141	GOM_TRA_1PNPDE20091205_225538_000000572084_00473_40607_6568.N1	05-DEC-2009 22:55:38	Dark	56.500	171	2Eps Crv	3.0010	4250.0	113	40607	No
142	GOM_TRA_1PNPDE20091205_230500_000000442084_00474_40608_6569.N1	05-DEC-2009 23:05:00	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	40608	No
143	GOM_TRA_1PNPDE20091205_231341_000000472084_00474_40608_6570.N1	05-DEC-2009 23:13:41	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	40608	No
144	GOM_TRA_1PNPDE20091205_231537_000000582084_00474_40608_6571.N1	05-DEC-2009 23:15:37	Dark	58.000	70	Zet Pup	2.2460	39000.	116	40608	No
145	GOM_TRA_1PNPDE20091205_231850_000000582084_00474_40608_6572.N1	05-DEC-2009 23:18:50	Dark	58.000	117	Pi Pup	2.7060	3800.0	116	40608	No
146	GOM_TRA_1PNPDE20091205_232228_000000592084_00474_40608_6573.N1	05-DEC-2009 23:22:28	Dark	59.000	23	21Eps CMa	1.5020	26000.	118	40608	No
147	GOM_TRA_1PNPDE20091205_232821_000000502084_00474_40608_6574.N1	05-DEC-2009 23:28:21	Straylight	50.000	101	11Alp Lep	2.5820	7000.0	100	40608	No
148	GOM_TRA_1PNPDE20091205_233144_000000572084_00474_40608_6575.N1	05-DEC-2009 23:31:44	Straylight	56.500	7	19Bet Ori	0.10000	14000.	113	40608	No
149	GOM_TRA_1PNPDE20091205_233426_000000582084_00474_40608_6576.N1	05-DEC-2009 23:34:26	Straylight	57.500	30	46Eps Ori	1.6940	30000.	115	40608	No
150	GOM_TRA_1PNPDE20091205_233700_000000562084_00474_40608_6577.N1	05-DEC-2009 23:37:00	Twi_and_stray	55.500	27	24Gam Ori	1.6360	26000.	111	40608	No
151	GOM_TRA_1PNPDE20091205_233927_000000592084_00474_40608_6578.N1	05-DEC-2009 23:39:27	Bright	59.000	13	87Alp Tau	0.86700	3800.0	118	40608	No
152	GOM_TRA_1PNPDE20091205_234333_000000382084_00474_40608_6579.N1	05-DEC-2009 23:43:33	Bright	38.000	150	44Zet Per	2.8900	28000.	76	40608	No
153	GOM_TRA_1PNPDE20091205_234502_000000432084_00474_40608_6580.N1	05-DEC-2009 23:45:02	Bright	43.000	114	3Iot Aur	2.6930	4600.0	86	40608	No
154	GOM_TRA_1PNPDE20091205_234921_000000502084_00474_40608_6581.N1	05-DEC-2009 23:49:21	Bright	49.500	6	13Alp Aur	0.080000	3400.0	99	40608	No
155	GOM_TRA_1PNPDE20091205_235050_000000502084_00474_40608_6582.N1	05-DEC-2009 23:50:50	Bright	49.500	42	34Bet Aur	1.9000	10200.	99	40608	No

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



4. Overview of dark signal processing per product

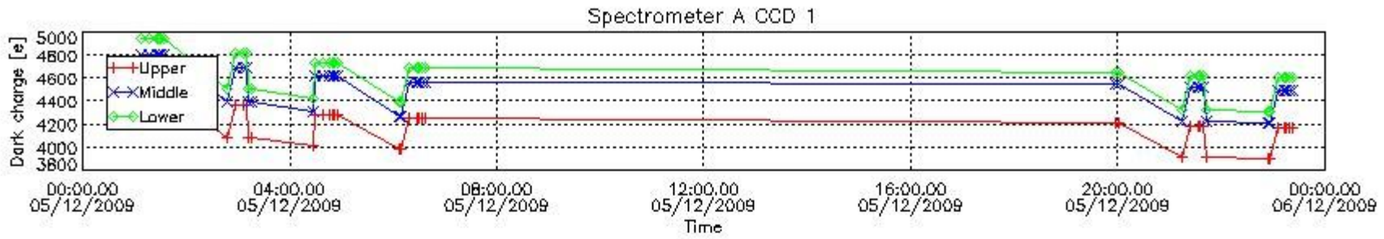
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

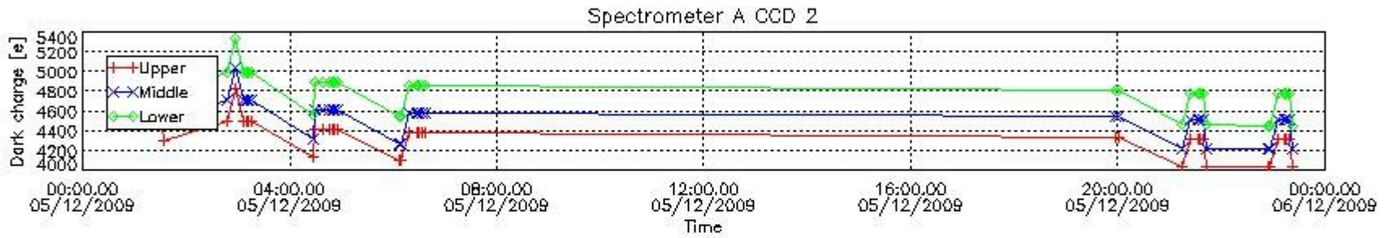
4.1 These products did not use the DSA observation for DC computation:

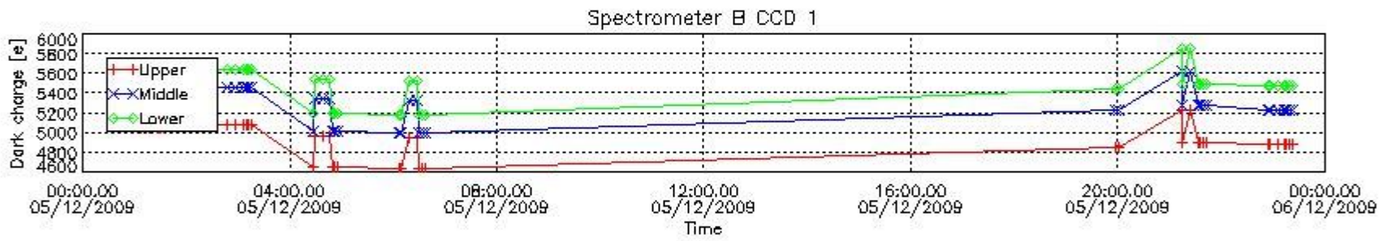
Product name	DC information
GOM_TRA_1PNPDE20091205_195737_000000582084_00472_40606_6522.N1	DC map used
GOM_TRA_1PNPDE20091205_200115_000000632084_00472_40606_6523.N1	DC map used
GOM_TRA_1PNPDE20091205_200709_000000512084_00472_40606_6524.N1	DC map used
GOM_TRA_1PNPDE20091205_201032_000000532084_00472_40606_6525.N1	DC map used
GOM_TRA_1PNPDE20091205_201315_000000602084_00472_40606_6526.N1	DC map used
GOM_TRA_1PNPDE20091205_201549_000000542084_00472_40606_6527.N1	DC map used
GOM_TRA_1PNPDE20091205_201816_000000542084_00472_40606_6528.N1	DC map used
GOM_TRA_1PNPDE20091205_202222_000000372084_00472_40606_6529.N1	DC map used
GOM_TRA_1PNPDE20091205_202352_000000442084_00472_40606_6530.N1	DC map used
GOM_TRA_1PNPDE20091205_202810_000000502084_00472_40606_6531.N1	DC map used
GOM_TRA_1PNPDE20091205_202940_000000482084_00472_40606_6532.N1	DC map used
GOM_TRA_1PNPDE20091205_204439_000000492084_00472_40606_6533.N1	DC map used
GOM_TRA_1PNPDE20091205_204613_000000512084_00472_40606_6534.N1	DC map used
GOM_TRA_1PNPDE20091205_204811_000000422084_00472_40606_6535.N1	DC map used

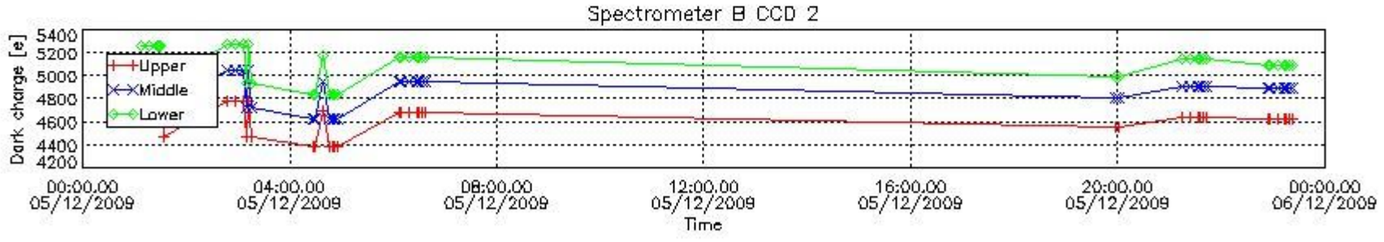
GOM_TRA_1PNPDE20091205_205025_000000402084_00472_40606_6536.N1	DC map used
GOM_TRA_1PNPDE20091205_205355_000000612084_00472_40606_6537.N1	DC map used
GOM_TRA_1PNPDE20091205_210252_000000622084_00472_40606_6538.N1	DC map used

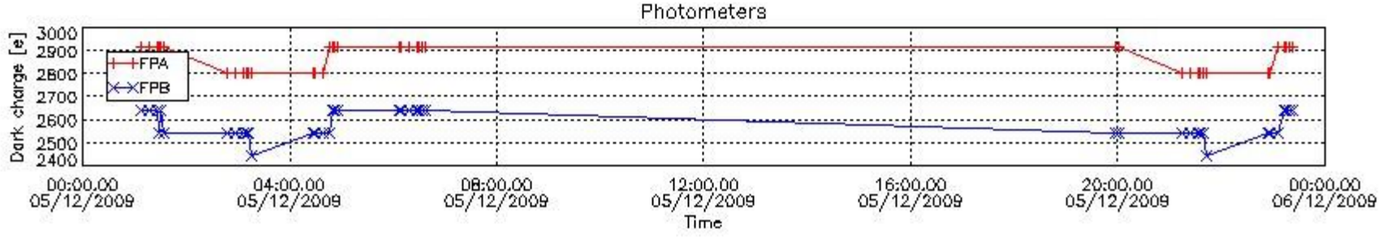
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











5. Demodulation flag and quality information monitoring

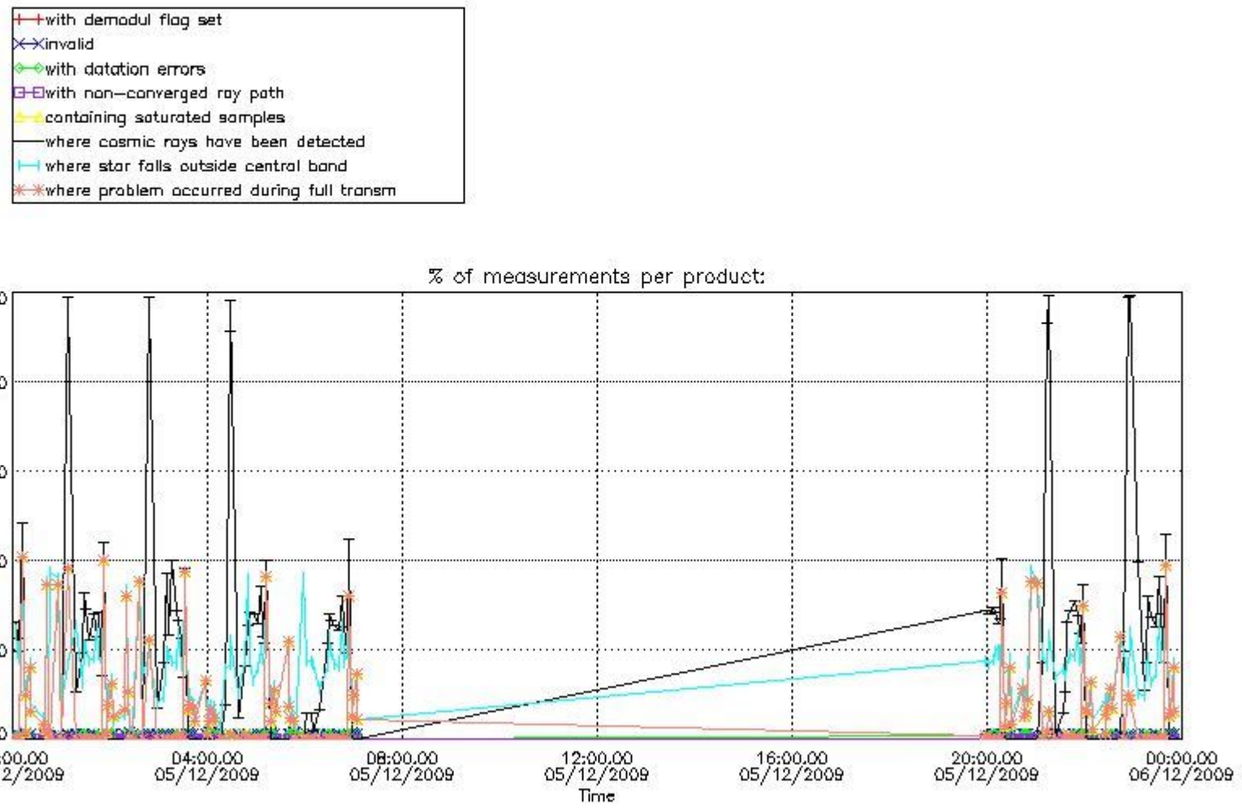
In this section it is presented the modulation information extracted from the pcd (product confidence data)
at measurement level and information extracted from the Quality Summary dataset. Only products without errors

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

5.1 Percentage of products during reporting period with:

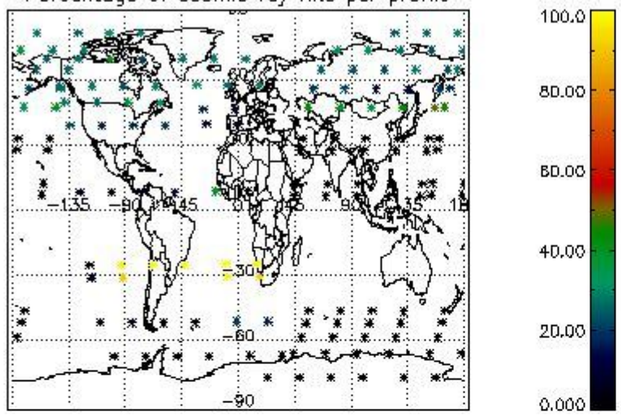
At least one measurement with demodulation flag set:	42.5806 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

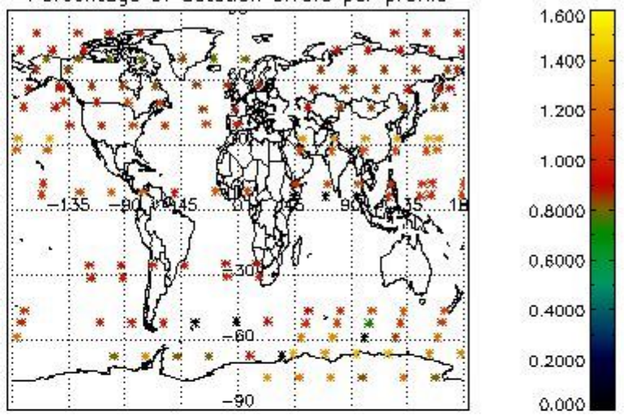


5.3 Plot quality information per product (world map)

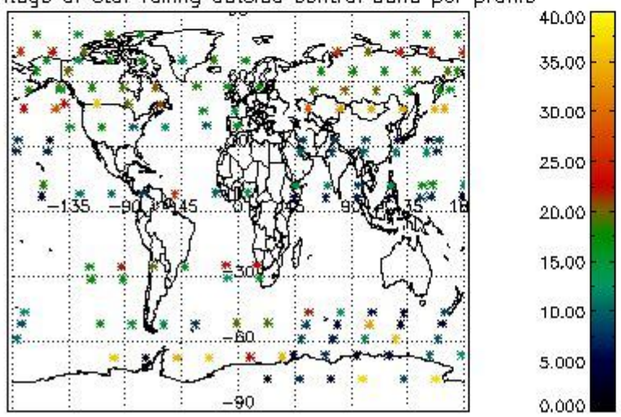
Percentage of cosmic ray hits per profile



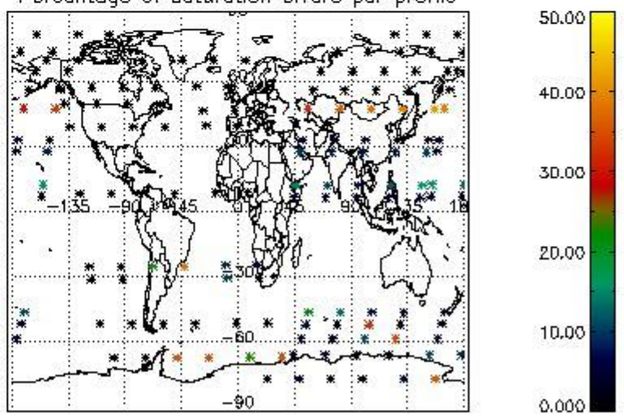
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



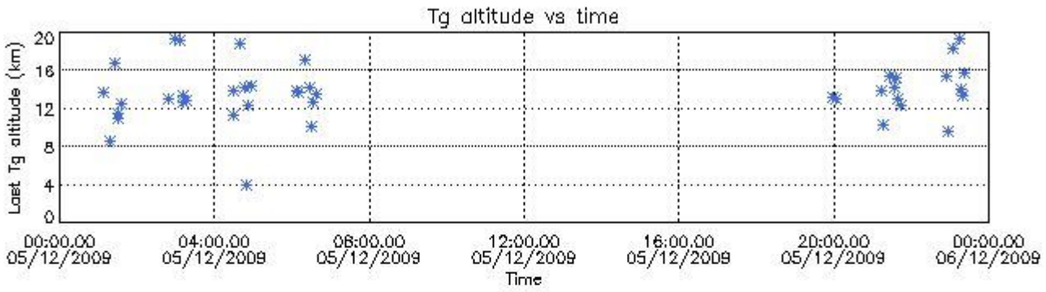
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

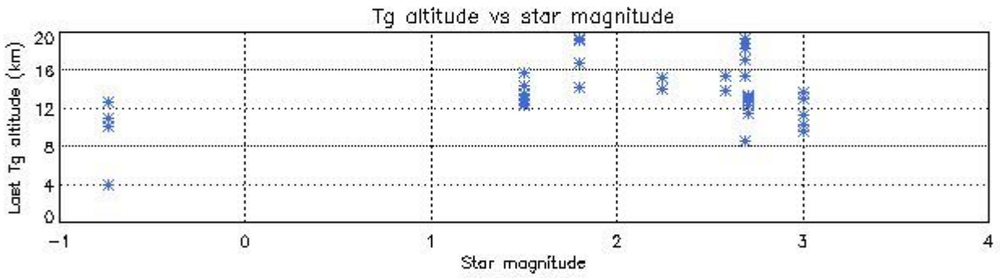
6.1 Statistics on tangent altitude lost:

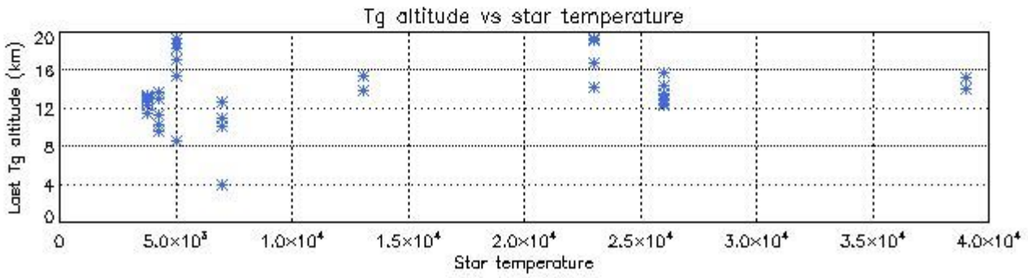
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.673	16.103	NaN
St. deviation:	2.9981	6.4599	NaN
Maximum:	19.354	27.389	NaN
Minimum:	3.9369	3.2799	NaN
Number of data:	42.000	82.000	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

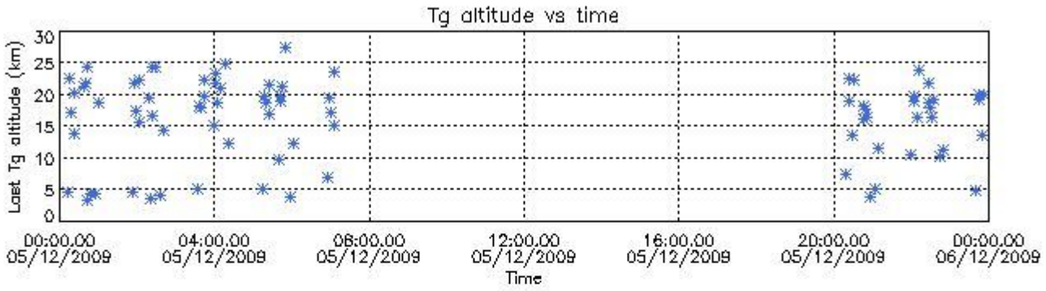


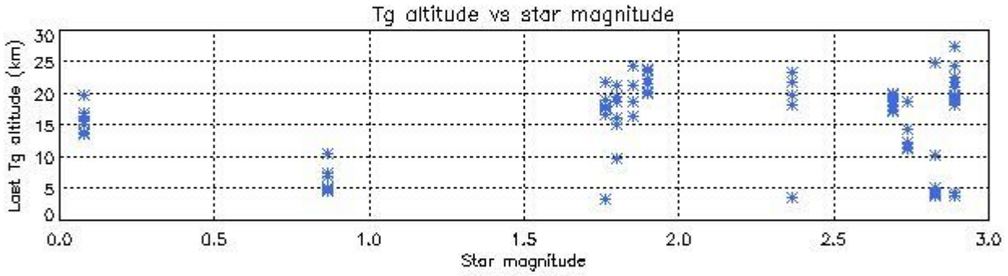


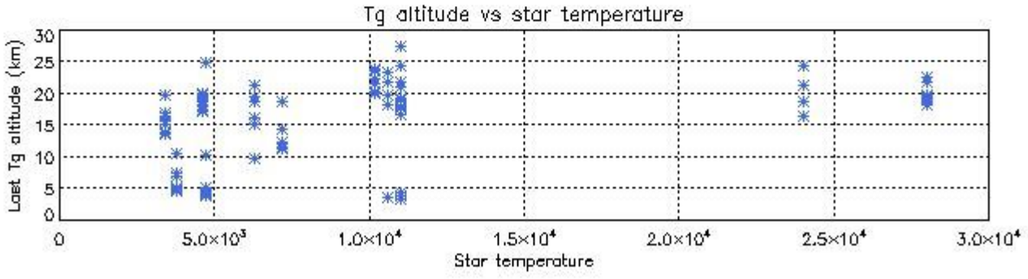


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost





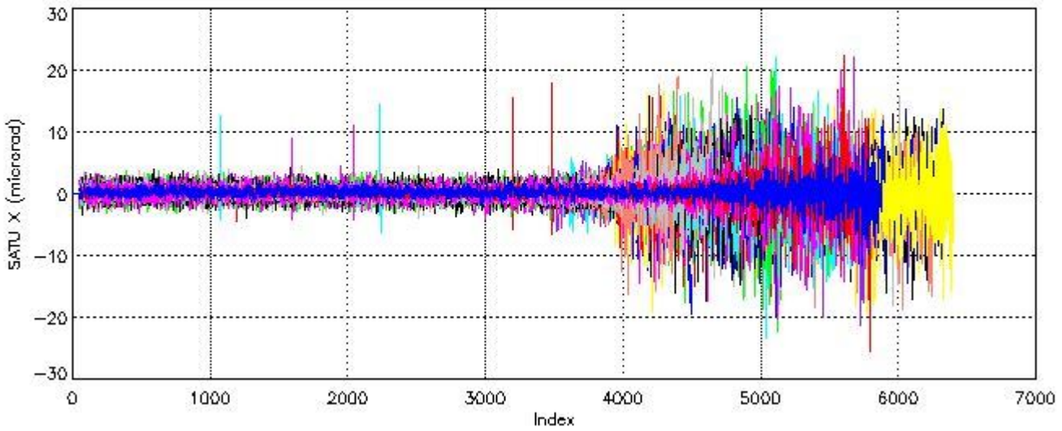


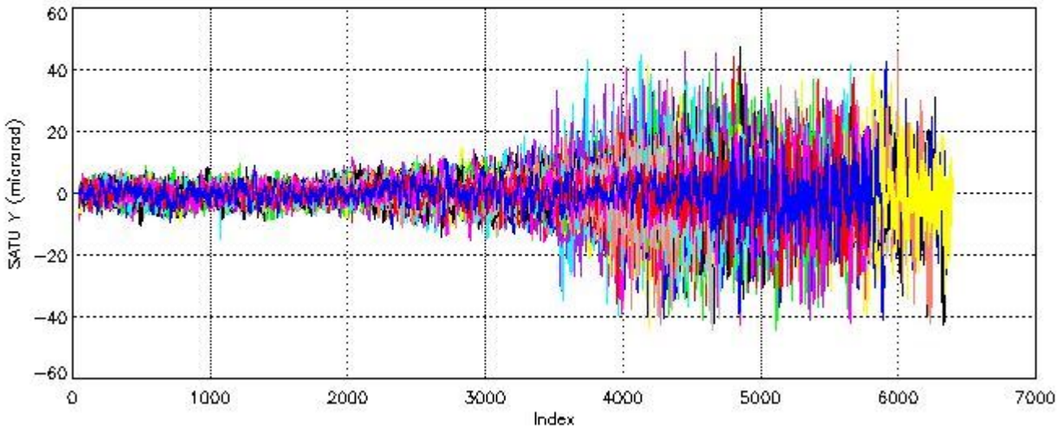
7. Star Acquisition and Tracking Unit (SATU)

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:	0.25273	-0.24333	0.22527	-0.26313
St. deviation:	0.56875	2.0545	0.75660	2.2874
Maximum:	4.0000	9.2000	6.1000	10.000
Minimum:	-3.5000	-10.500	-7.1000	-10.900

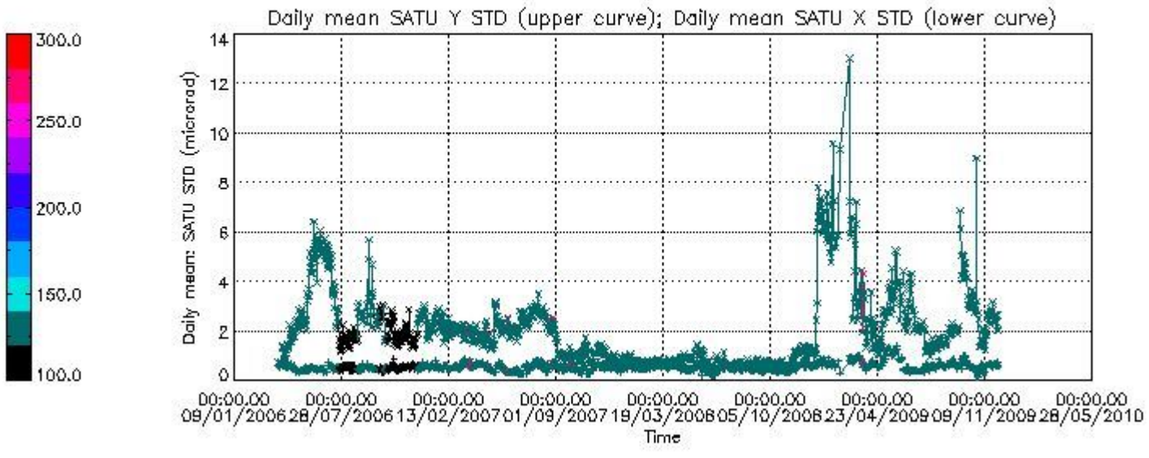
Number of data:	47050.	47050.	83050.	83050.

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.

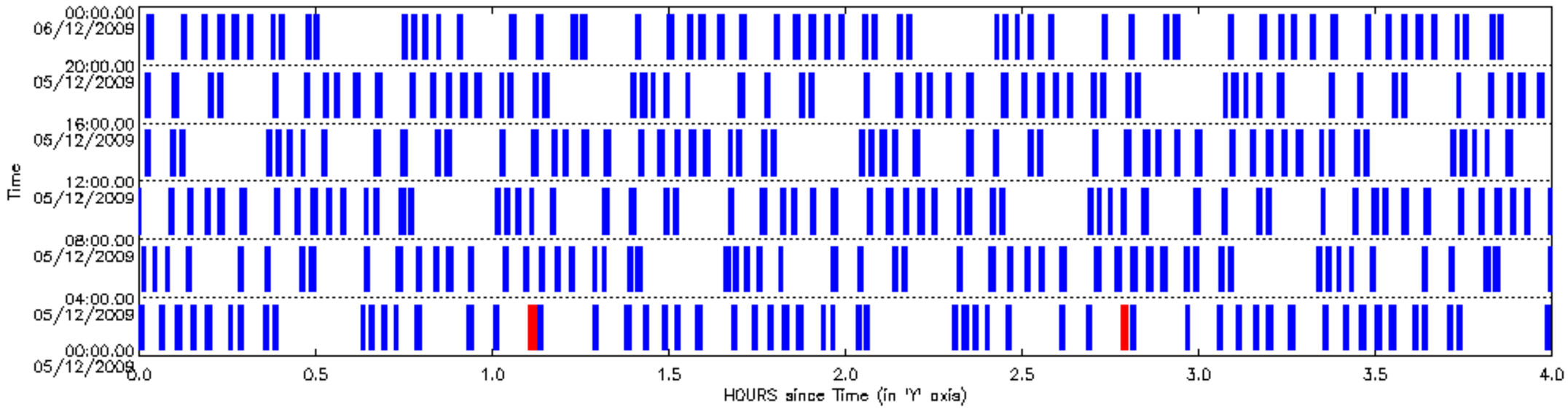
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

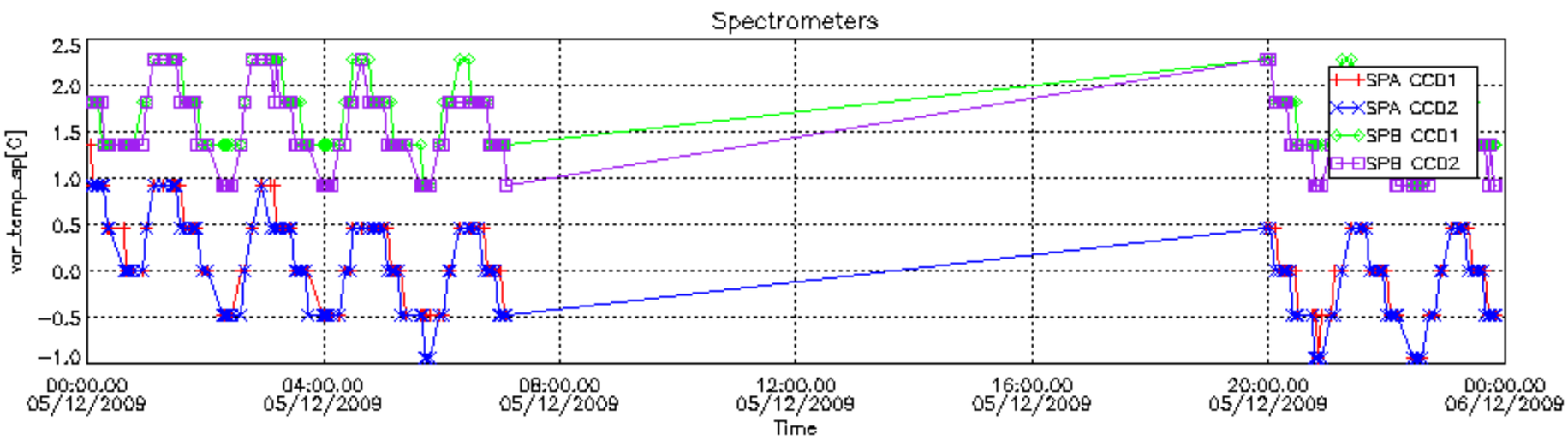


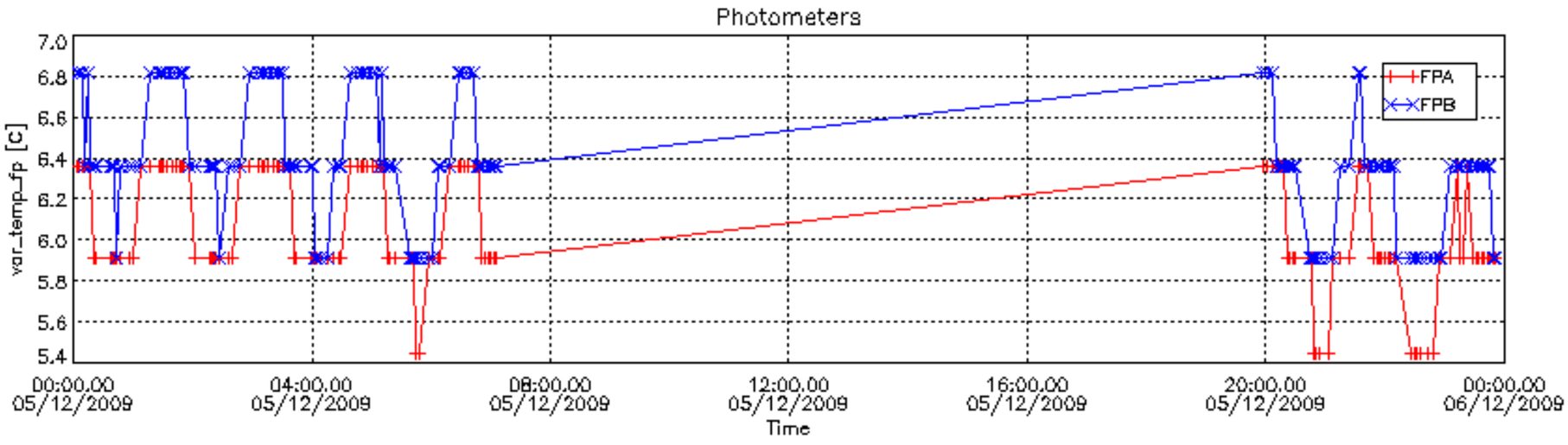
8. Auxiliary Data Files used for the production reported in section 2.4

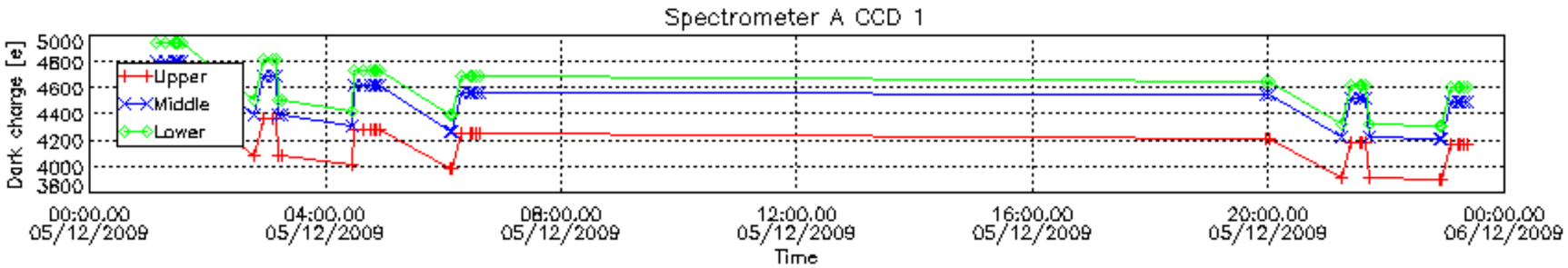
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

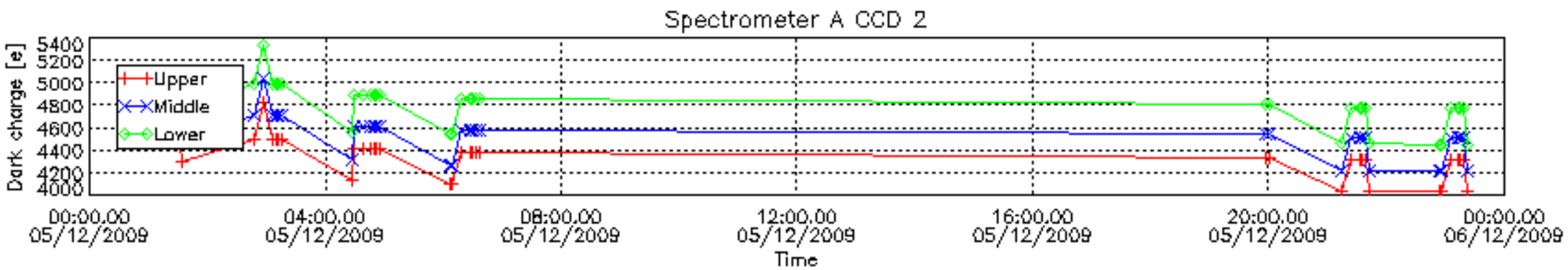
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	05-DEC-2009 00:03:22
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091130_103004_20091128_000000_20500101_000000	1	05-DEC-2009 00:03:22
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	05-DEC-2009 00:03:22
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-DEC-2009 00:03:22
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	05-DEC-2009 00:03:22
ECMWF_FILE	AUX_ECF_AXNECM20091204_064111_20091204_210000_20091205_090000	1	05-DEC-2009 00:03:22
ECMWF_FILE	AUX_ECF_AXNECM20091204_182111_20091205_030000_20091205_150000	53	05-DEC-2009 03:58:44
ECMWF_FILE	AUX_ECA_AXNECM20091205_062110_20091204_210000_20091205_090000	76	05-DEC-2009 05:39:19
ECMWF_FILE	AUX_ECF_AXNECM20091205_064110_20091205_150000_20091206_030000	99	05-DEC-2009 19:57:37
ECMWF_FILE	AUX_ECF_AXNECM20091205_064111_20091205_210000_20091206_090000	116	05-DEC-2009 21:07:28
OPTIONAL_ECMWF_FILE	MISSING	1	05-DEC-2009 00:03:22
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20091204_231736_000057382084_00459_40593_9295.N1	1	05-DEC-2009 00:03:22
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20091205_005833_000044632084_00460_40594_9296.N1	16	05-DEC-2009 01:07:38
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20091205_021815_000051012084_00461_40595_9297.N1	34	05-DEC-2009 02:23:49
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20091205_034835_000060572084_00462_40596_9298.N1	53	05-DEC-2009 03:58:44
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091204_010110_20091203_190402_20091213_203014	76	05-DEC-2009 05:39:19
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20091205_195016_000041442084_00472_40606_9300.N1	99	05-DEC-2009 19:57:37
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20091205_210439_000060572084_00472_40606_9301.N1	116	05-DEC-2009 21:07:28
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20091205_224536_000057382084_00473_40607_9302.N1	140	05-DEC-2009 22:54:01

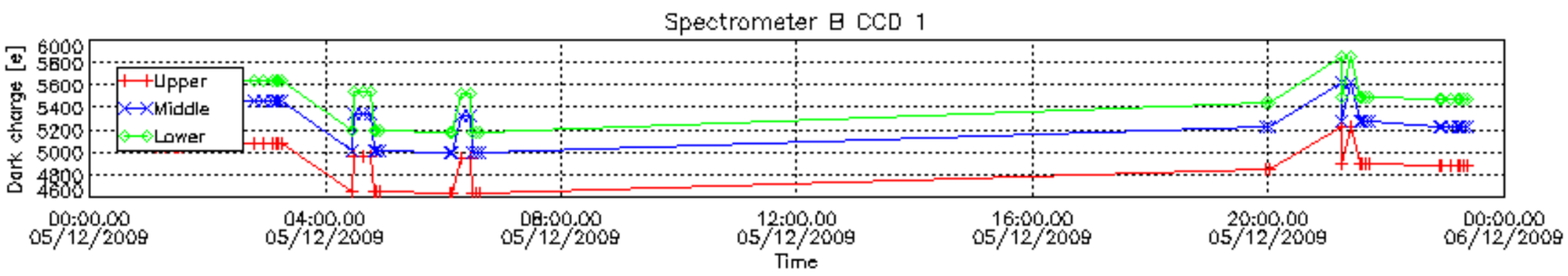

00:00.00
06/12/2009
20:00.00
05/12/2009
16:00.00
05/12/2009
12:00.00
05/12/2009
08:00.00
05/12/2009
04:00.00
05/12/2009
00:00.00
05/12/2009
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

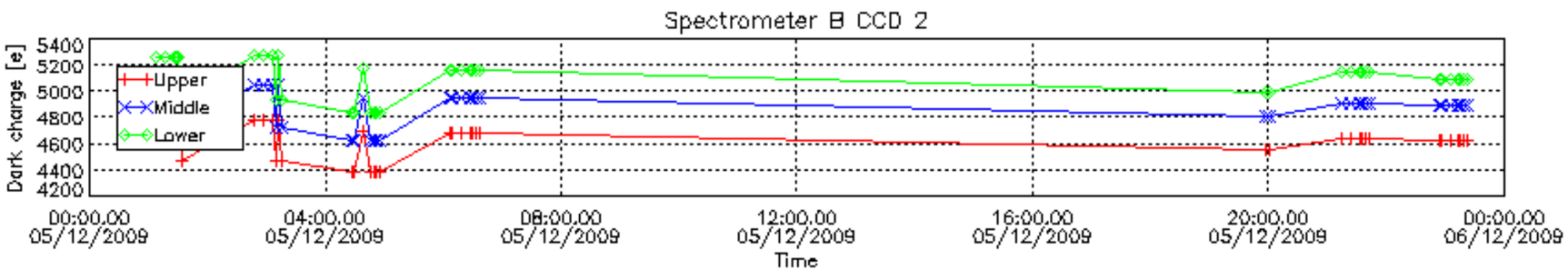

Spectrometers
var_temp_sp[C]
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
05/12/2009
04:00.00
05/12/2009
08:00.00
05/12/2009
12:00.00
05/12/2009
16:00.00
05/12/2009
20:00.00
05/12/2009
00:00.00
06/12/2009
Time

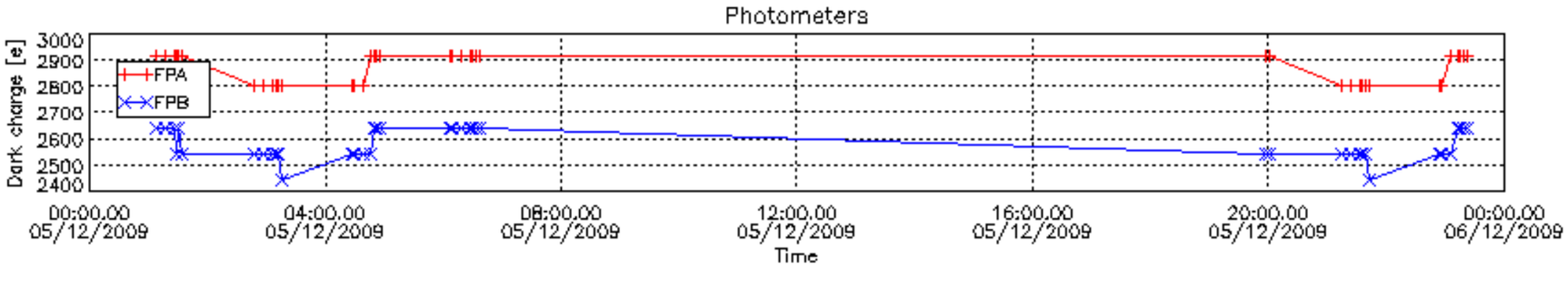

Photometers
var_temp_fp [C]
7.0
6.8
6.6
6.4
6.2
6.0
5.8
5.6
5.4
FPA
FPB
00:00.00
05/12/2009
04:00.00
05/12/2009
08:00.00
05/12/2009
12:00.00
05/12/2009
16:00.00
05/12/2009
20:00.00
05/12/2009
00:00.00
06/12/2009
Time

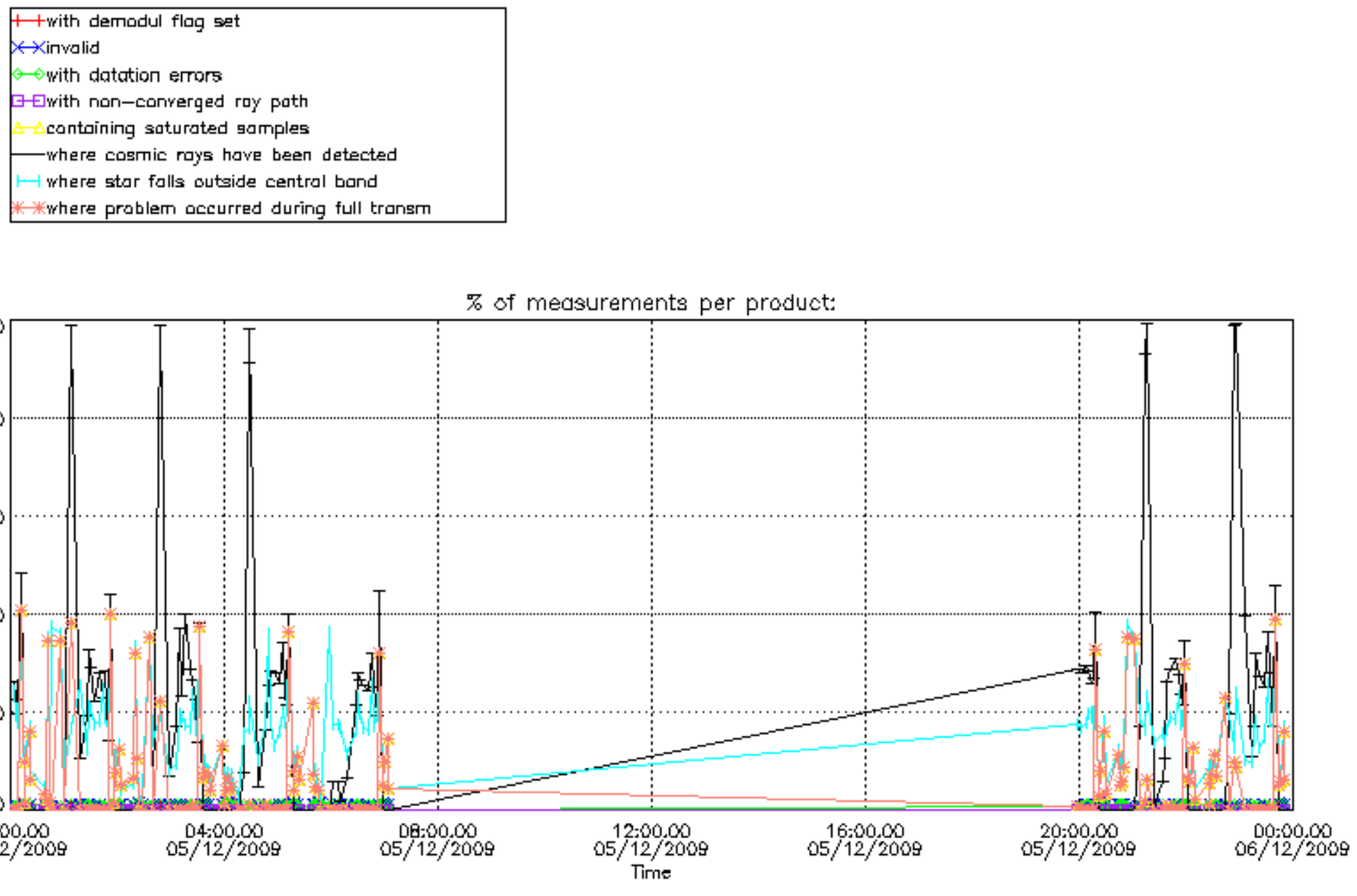

Spectrometer A CCD 1
Dark charge [e]
5000
4800
4600
4400
4200
4000
3800
Upper
Middle
Lower
00:00.00 05/12/2009
04:00.00 05/12/2009
08:00.00 05/12/2009
12:00.00 05/12/2009
16:00.00 05/12/2009
20:00.00 05/12/2009
00:00.00 06/12/2009
Time

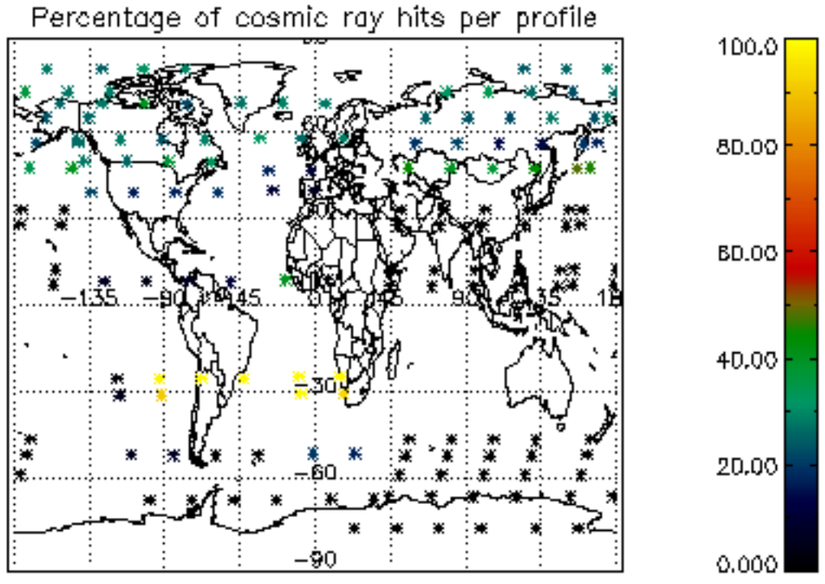

Spectrometer A CCD 2
Dark charge [e]
5400
5200
5000
4800
4600
4400
4200
4000
Upper
Middle
Lower
00:00.00 05/12/2009
04:00.00 05/12/2009
08:00.00 05/12/2009
12:00.00 05/12/2009
16:00.00 05/12/2009
20:00.00 05/12/2009
00:00.00 06/12/2009
Time

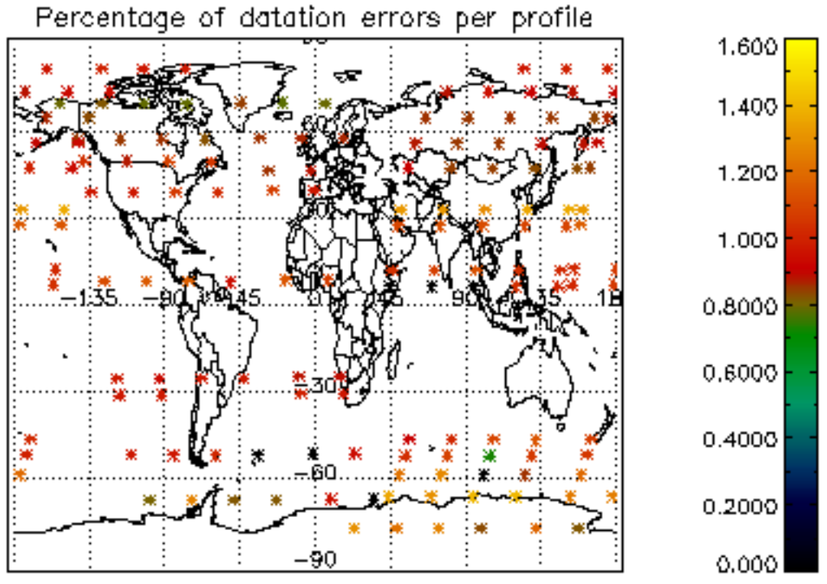

Spectrometer B CCD 1
Dark charge [e]
6000
5800
5600
5400
5200
5000
4800
4600
Upper
Middle
Lower
00:00.00 05/12/2009
04:00.00 05/12/2009
08:00.00 05/12/2009
12:00.00 05/12/2009
16:00.00 05/12/2009
20:00.00 05/12/2009
00:00.00 06/12/2009
Time

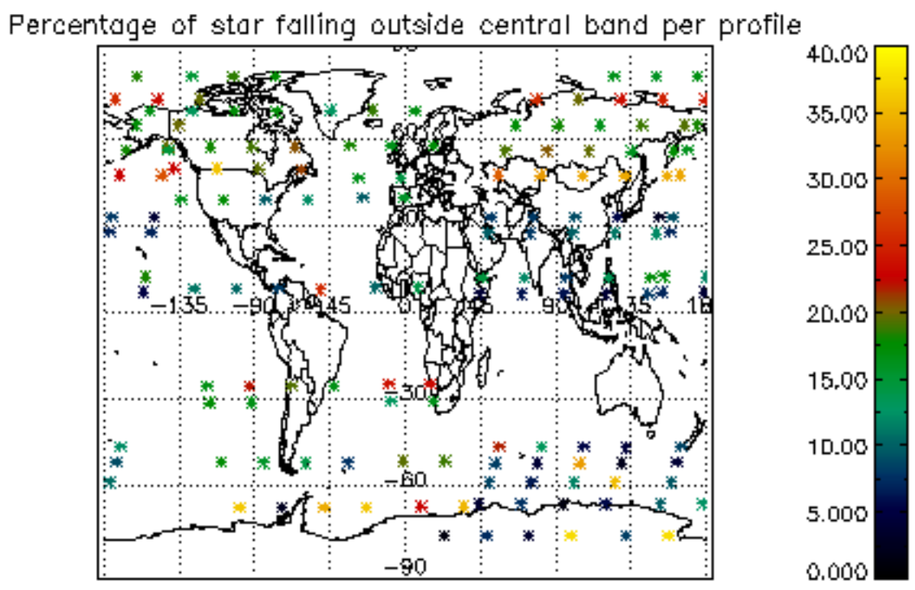

Spectrometer B CCD 2
Dark charge [e]
5400
5200
5000
4800
4600
4400
4200
Upper
Middle
Lower
00:00.00 05/12/2009
04:00.00 05/12/2009
08:00.00 05/12/2009
12:00.00 05/12/2009
16:00.00 05/12/2009
20:00.00 05/12/2009
00:00.00 06/12/2009
Time

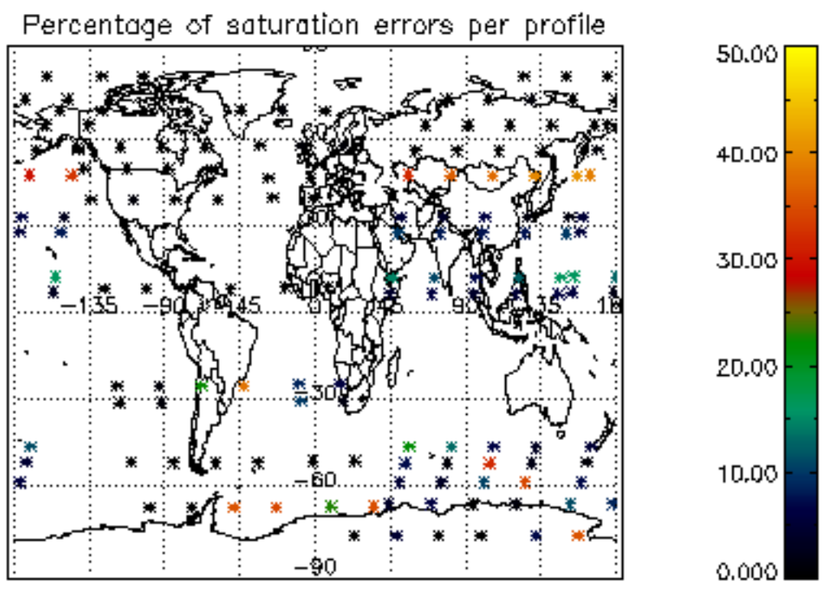

Photometers
Dark charge [e]
3000
2900
2800
2700
2600
2500
2400
FPA
FPB
00:00.00 05/12/2009
04:00.00 05/12/2009
08:00.00 05/12/2009
12:00.00 05/12/2009
16:00.00 05/12/2009
20:00.00 05/12/2009
00:00.00 06/12/2009
Time


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
05/12/2009
04:00.00
05/12/2009
08:00.00
05/12/2009
12:00.00
05/12/2009
16:00.00
05/12/2009
20:00.00
05/12/2009
00:00.00
06/12/2009
Time

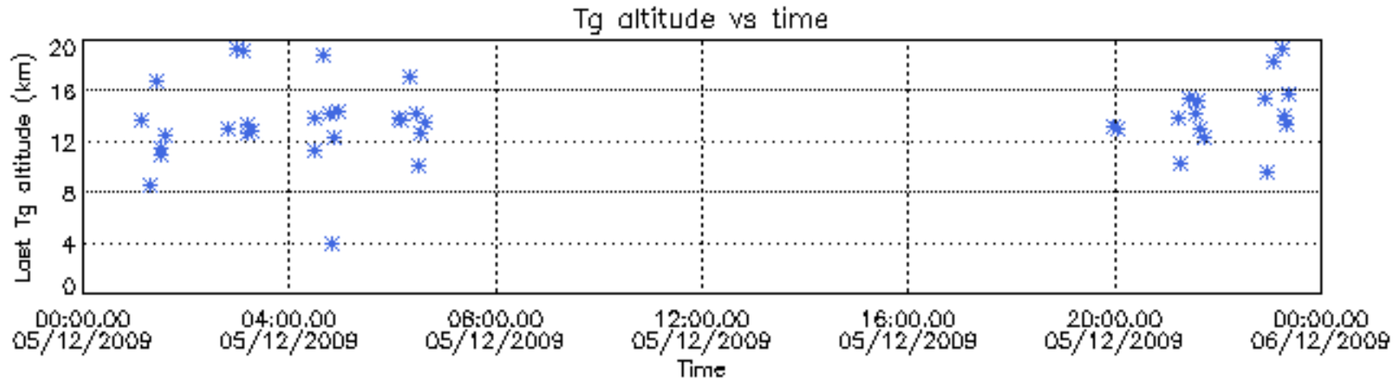

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−30
−60
−90

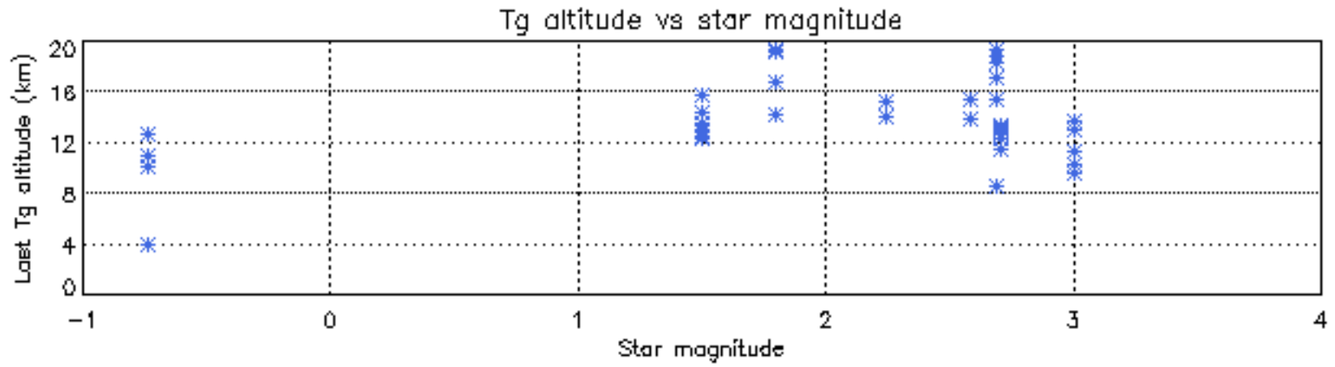

Percentage of datation errors per profile
1.600
1.400
1.200
1.000
0.8000
0.6000
0.4000
0.2000
0.000
−135
−90
−30
−60
−90

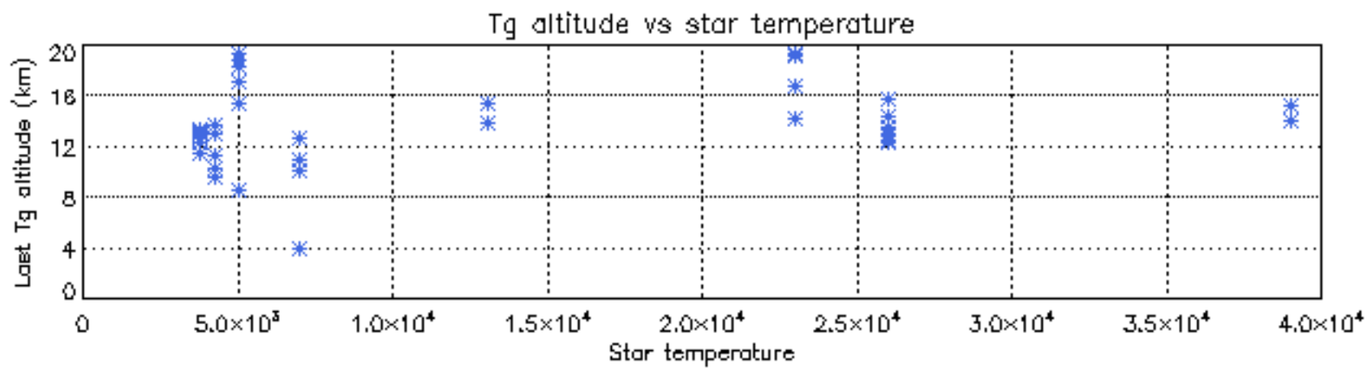

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90


Percentage of saturation errors per profile
50.00
40.00
30.00
20.00
10.00
0.000
−135
−90
−30
−60
−90

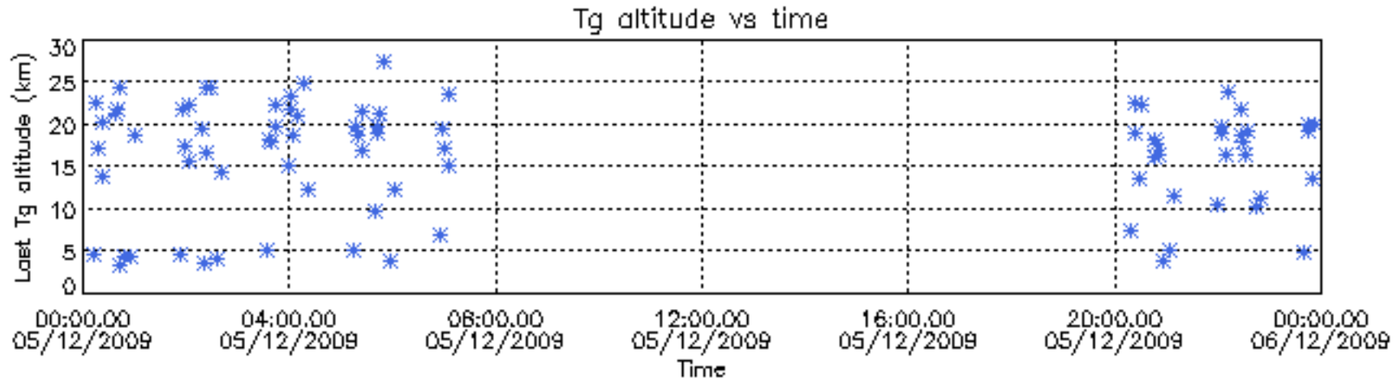
Tangent altitude at which the star is lost

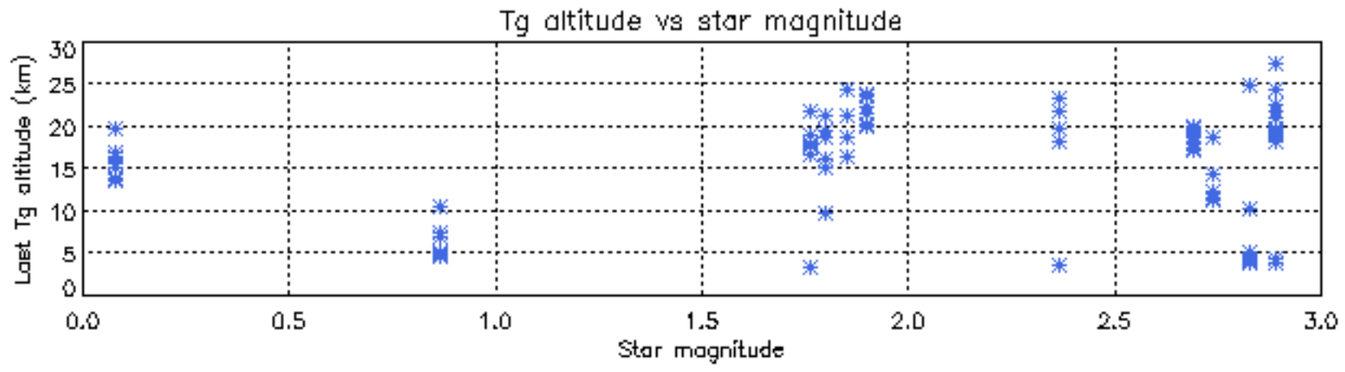


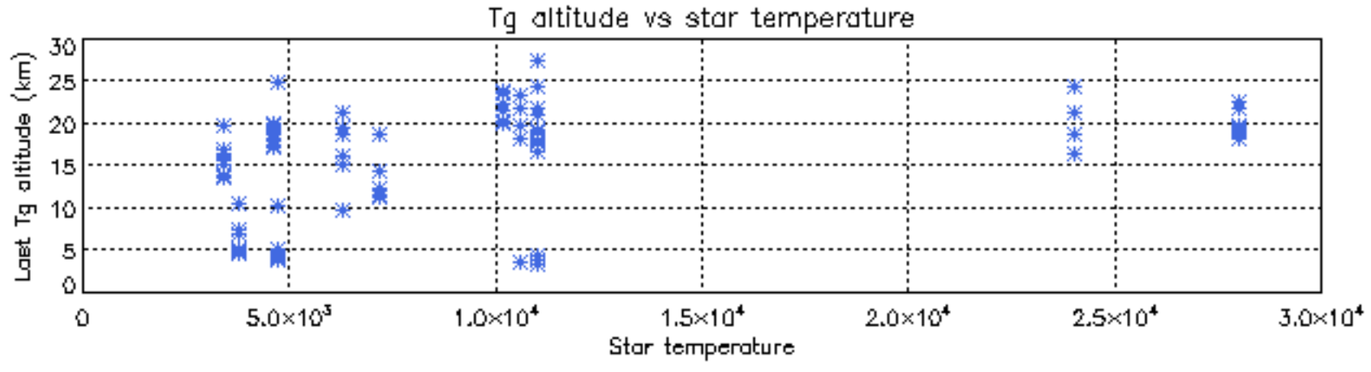


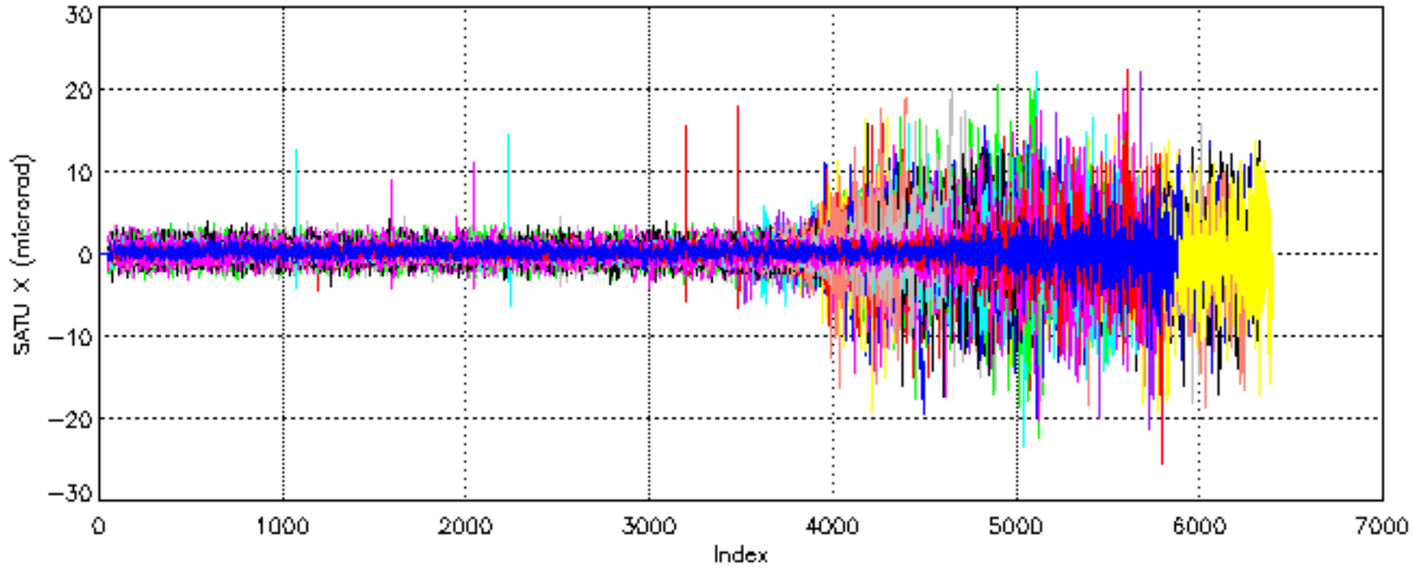


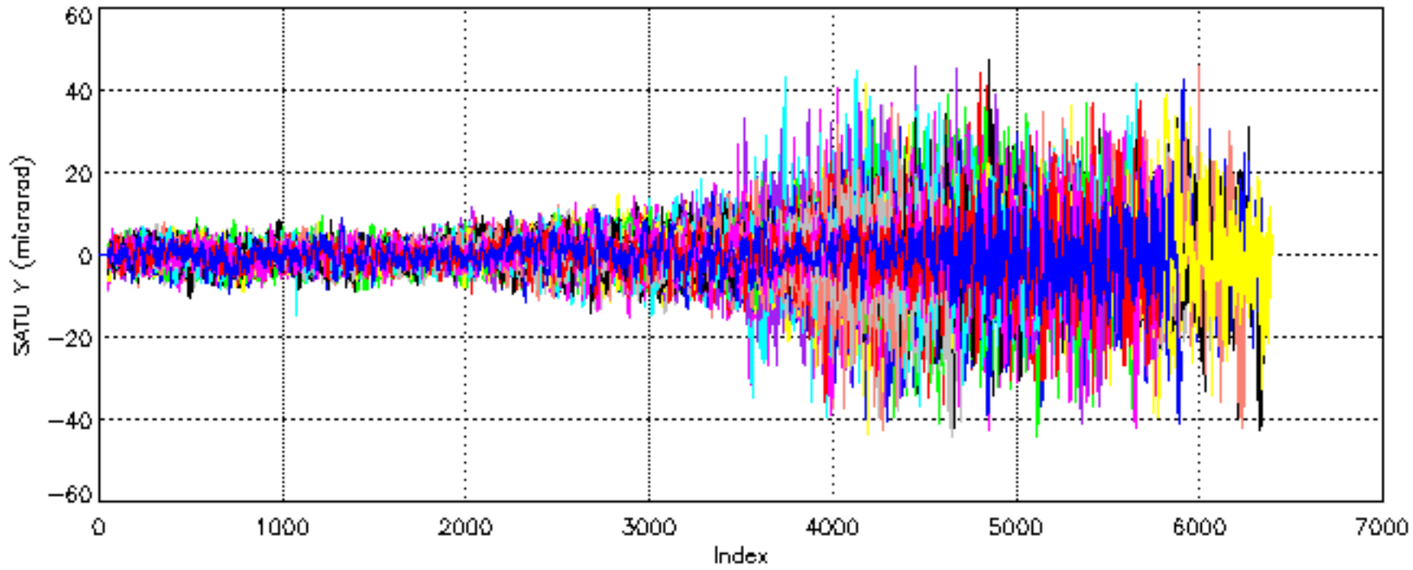
Tangent altitude at which the star is lost

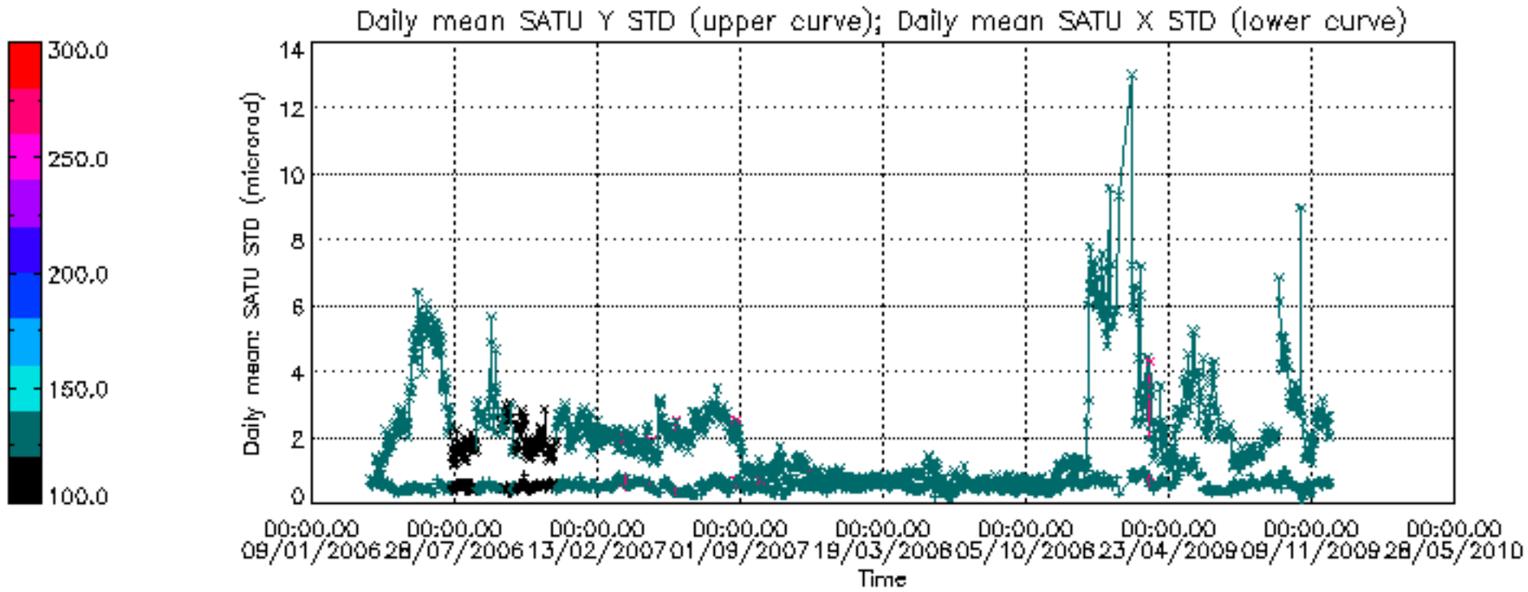







30
20
10
0
−10
−20
−30
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
7000
Index


60
40
20
0
−20
−40
−60
S4TU Y (microrad)
0
1000
2000
3000
4000
5000
6000
7000
Index


Daily mean SATU Y STD (upper curve); Daily mean SATU X STD (lower curve)
300.0
250.0
200.0
150.0
100.0
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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4; 407.7; 01-DEC-2009 01:47:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40538
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   8; 1749.9; 04-DEC-2009 00:34:59; Dark ; 56.5;   7; 19Bet Ori ; 0.10; 14000;occ; 113;   0;40580
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  21; 2606.0; 04-DEC-2009 04:10:27; Bright;  37.5;  149; 45Eps Per  ; 2.89; 30000;occ;  75;   0;40582
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  21; 1752.1; 19-DEC-2009 06:05:35; Dark  ;  46.5;    7; 19Bet Ori  ; 0.10; 14000;occ;  93;   0;40798
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  15; 3969.3; 19-DEC-2009 21:47:56; Bright; 42.0;   32; 77Eps UMa ; 1.76; 11000;occ; 84;   0;40807
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  26; 4343.0; 19-DEC-2009 23:34:45; Bright; 50.5; 180; 27Gam Boo ; 3.04; 8000;occ; 101;   0;40808
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   7; 2708.3; 24-DEC-2009 10:25:50; Bright;  43.5;    6; 13Alp Aur  ; 0.08;  3400;occ;  87;   0;40872
   8; 3699.5; 24-DEC-2009 10:42:22; Bright;  41.5;   60;  7Bet UMi  ; 2.08;  3950;occ;  83;   0;40872
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   9; 3699.8; 24-DEC-2009 14:03:34; Bright;  35.0;   60;  7Bet UMi  ; 2.08;  3950;occ;  70;   0;40874
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  23; 6663.9; 31-DEC-2009 16:13:27; Dark ; 41.5;   71;   Iot Car ; 2.25; 7700;occ; 83;   0;40975
  24; 6759.3; 31-DEC-2009 16:15:02; Dark ; 49.5;   41;   Eps Car ; 1.86; 4100;occ; 99;   0;40975
  25; 6949.7; 31-DEC-2009 16:18:13; Dark ; 46.5;   34;   Gam2Vel ; 1.79; 23000;occ; 93;   0;40975
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