

GOMOS Daily Report 23-OCT-2011

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	27OCT2011 07:02:31
Data source version	GOMOS/6.01
Start time of products	23OCT2011 09:49:36
Stop time of products	23OCT2011 23:41:25
Store outputs in DB	Yes
Nb of level 1b prods	26
Nb of prods with errors	0

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

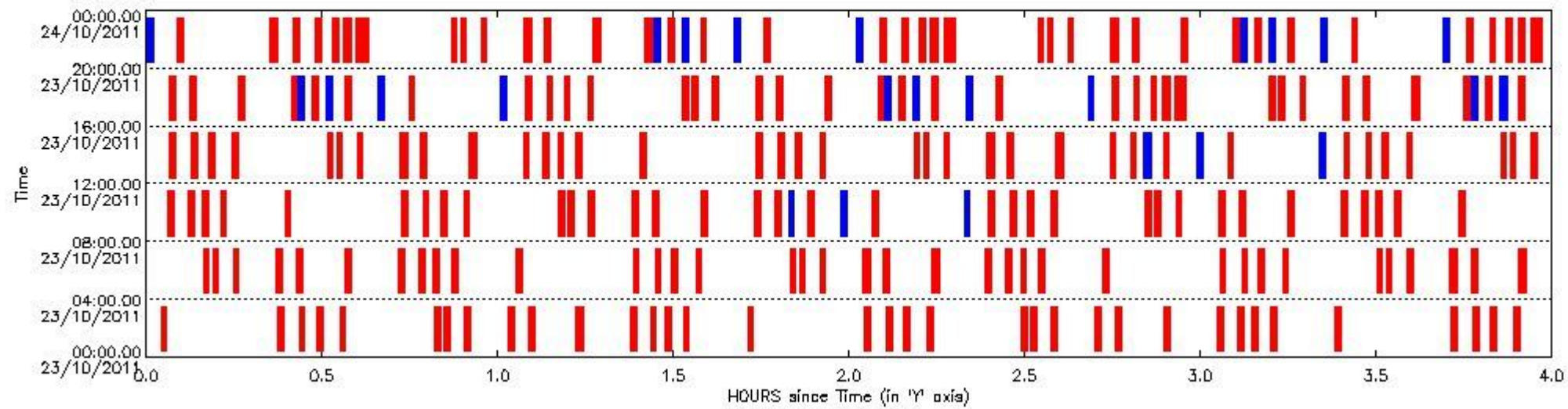
2.1 Level 0 products arrived in PCF (see template [here](#))

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
23-OCT-2011 00:02:27	The1Eri	157	50447
23-OCT-2011 00:22:23	6BetAri	105	50447
23-OCT-2011 00:26:08	43BetAnd	53	50447
23-OCT-2011 00:29:03	57Gam1And	73	50447
23-OCT-2011 00:33:08	27GamCas	76	50447
23-OCT-2011 00:49:16	50AlpUMa	36	50447
23-OCT-2011 00:50:50	48BetUMa	82	50447
23-OCT-2011 00:54:21	52PsiUMa	174	50447
23-OCT-2011 01:01:40	17EpsLeo	166	50447
23-OCT-2011 01:05:10	32AlpLeo	22	50447
23-OCT-2011 01:13:22	30AlpHya	48	50447
23-OCT-2011 01:22:36	LamVel	65	50447
23-OCT-2011 01:26:02	Gam2Vel	34	50448
23-OCT-2011 01:28:32	DSA1055	0	50448
23-OCT-2011 01:31:39	AlpCar	2	50448

23-OCT-2011 01:42:41	The1Eri	157	50448
23-OCT-2011 02:02:37	6BetAri	105	50448
23-OCT-2011 02:06:22	43BetAnd	53	50448
23-OCT-2011 02:09:16	57Gam1And	73	50448
23-OCT-2011 02:13:22	27GamCas	76	50448
23-OCT-2011 02:29:30	50AlpUMa	36	50448
23-OCT-2011 02:31:04	48BetUMa	82	50448
23-OCT-2011 02:34:35	52PsiUMa	174	50448
23-OCT-2011 02:41:55	17EpsLeo	166	50448
23-OCT-2011 02:45:24	32AlpLeo	22	50448
23-OCT-2011 02:53:37	30AlpHya	48	50448
23-OCT-2011 03:02:51	LamVel	65	50448
23-OCT-2011 03:06:17	Gam2Vel	34	50449
23-OCT-2011 03:08:47	DSA1055	0	50449
23-OCT-2011 03:11:53	AlpCar	2	50449
23-OCT-2011 03:22:55	The1Eri	157	50449
23-OCT-2011 03:42:50	6BetAri	105	50449
23-OCT-2011 03:46:36	43BetAnd	53	50449
23-OCT-2011 03:49:30	57Gam1And	73	50449
23-OCT-2011 03:53:36	27GamCas	76	50449
23-OCT-2011 04:09:44	50AlpUMa	36	50449
23-OCT-2011 04:11:18	48BetUMa	82	50449
23-OCT-2011 04:14:49	52PsiUMa	174	50449
23-OCT-2011 04:22:09	17EpsLeo	166	50449
23-OCT-2011 04:25:39	32AlpLeo	22	50449
23-OCT-2011 04:33:52	30AlpHya	48	50449
23-OCT-2011 04:43:05	LamVel	65	50449
23-OCT-2011 04:46:31	Gam2Vel	34	50450
23-OCT-2011 04:49:02	DSA1055	0	50450
23-OCT-2011 04:52:08	AlpCar	2	50450
23-OCT-2011 05:03:10	The1Eri	157	50450
23-OCT-2011 05:23:04	6BetAri	105	50450
23-OCT-2011 05:26:49	43BetAnd	53	50450
23-OCT-2011 05:29:43	57Gam1And	73	50450
23-OCT-2011 05:33:50	27GamCas	76	50450
23-OCT-2011 05:49:58	50AlpUMa	36	50450
23-OCT-2011 05:51:32	48BetUMa	82	50450
23-OCT-2011 05:55:03	52PsiUMa	174	50450
23-OCT-2011 06:02:23	17EpsLeo	166	50450
23-OCT-2011 06:05:53	32AlpLeo	22	50450
23-OCT-2011 06:14:07	30AlpHya	48	50450
23-OCT-2011 06:23:20	LamVel	65	50450
23-OCT-2011 06:26:46	Gam2Vel	34	50451
23-OCT-2011 06:29:17	DSA1055	0	50451
23-OCT-2011 06:32:23	AlpCar	2	50451
23-OCT-2011 06:43:24	The1Eri	157	50451
23-OCT-2011 07:03:17	6BetAri	105	50451
23-OCT-2011 07:07:03	43BetAnd	53	50451
23-OCT-2011 07:09:57	57Gam1And	73	50451
23-OCT-2011 07:14:04	27GamCas	76	50451
23-OCT-2011 07:30:12	50AlpUMa	36	50451
23-OCT-2011 07:31:46	48BetUMa	82	50451
23-OCT-2011 07:35:17	52PsiUMa	174	50451
23-OCT-2011 07:42:38	17EpsLeo	166	50451
23-OCT-2011 07:46:08	32AlpLeo	22	50451
23-OCT-2011 07:54:22	30AlpHya	48	50451
23-OCT-2011 08:03:35	LamVel	65	50451
23-OCT-2011 08:07:01	Gam2Vel	34	50452
23-OCT-2011 08:09:32	DSA1055	0	50452

23-OCT-2011 08:12:38	AlpCar	2	50452
23-OCT-2011 08:23:38	The1Eri	157	50452
23-OCT-2011 08:43:31	6BetAri	105	50452
23-OCT-2011 08:47:17	43BetAnd	53	50452
23-OCT-2011 08:50:10	57Gam1And	73	50452
23-OCT-2011 08:54:17	27GamCas	76	50452
23-OCT-2011 09:10:25	50AlpUMa	36	50452
23-OCT-2011 09:12:00	48BetUMa	82	50452
23-OCT-2011 09:15:31	52PsiUMa	174	50452
23-OCT-2011 09:22:52	17EpsLeo	166	50452
23-OCT-2011 09:26:22	32AlpLeo	22	50452
23-OCT-2011 09:34:37	30AlpHya	48	50452
23-OCT-2011 09:43:49	LamVel	65	50452
23-OCT-2011 09:47:16	Gam2Vel	34	50453
23-OCT-2011 09:52:52	AlpCar	2	50453
23-OCT-2011 10:03:53	The1Eri	157	50453
23-OCT-2011 10:23:45	6BetAri	105	50453
23-OCT-2011 10:27:31	43BetAnd	53	50453
23-OCT-2011 10:30:24	57Gam1And	73	50453
23-OCT-2011 10:34:31	27GamCas	76	50453
23-OCT-2011 10:50:39	50AlpUMa	36	50453
23-OCT-2011 10:52:14	48BetUMa	82	50453
23-OCT-2011 10:55:45	52PsiUMa	174	50453
23-OCT-2011 11:03:06	17EpsLeo	166	50453
23-OCT-2011 11:06:36	32AlpLeo	22	50453
23-OCT-2011 11:14:52	30AlpHya	48	50453
23-OCT-2011 11:24:04	LamVel	65	50453
23-OCT-2011 11:27:31	Gam2Vel	34	50454
23-OCT-2011 11:30:01	DSA1055	0	50454
23-OCT-2011 11:33:07	AlpCar	2	50454
23-OCT-2011 11:44:07	The1Eri	157	50454
23-OCT-2011 12:03:58	6BetAri	105	50454
23-OCT-2011 12:07:44	43BetAnd	53	50454
23-OCT-2011 12:10:37	57Gam1And	73	50454
23-OCT-2011 12:14:45	27GamCas	76	50454
23-OCT-2011 12:30:53	50AlpUMa	36	50454
23-OCT-2011 12:32:28	48BetUMa	82	50454
23-OCT-2011 12:35:59	52PsiUMa	174	50454
23-OCT-2011 12:43:20	17EpsLeo	166	50454
23-OCT-2011 12:46:51	32AlpLeo	22	50454
23-OCT-2011 12:55:07	30AlpHya	48	50454
23-OCT-2011 13:04:19	LamVel	65	50454
23-OCT-2011 13:07:45	Gam2Vel	34	50455
23-OCT-2011 13:10:16	DSA1055	0	50455
23-OCT-2011 13:13:22	AlpCar	2	50455
23-OCT-2011 13:24:21	The1Eri	157	50455
23-OCT-2011 13:44:12	6BetAri	105	50455
23-OCT-2011 13:47:58	43BetAnd	53	50455
23-OCT-2011 13:50:51	57Gam1And	73	50455
23-OCT-2011 13:54:59	27GamCas	76	50455
23-OCT-2011 14:11:07	50AlpUMa	36	50455
23-OCT-2011 14:12:42	48BetUMa	82	50455
23-OCT-2011 14:16:13	52PsiUMa	174	50455
23-OCT-2011 14:23:35	17EpsLeo	166	50455
23-OCT-2011 14:27:05	32AlpLeo	22	50455
23-OCT-2011 14:35:22	30AlpHya	48	50455
23-OCT-2011 14:44:33	LamVel	65	50455
23-OCT-2011 14:48:00	Gam2Vel	34	50456
23-OCT-2011 14:53:37	AlpCar	2	50456

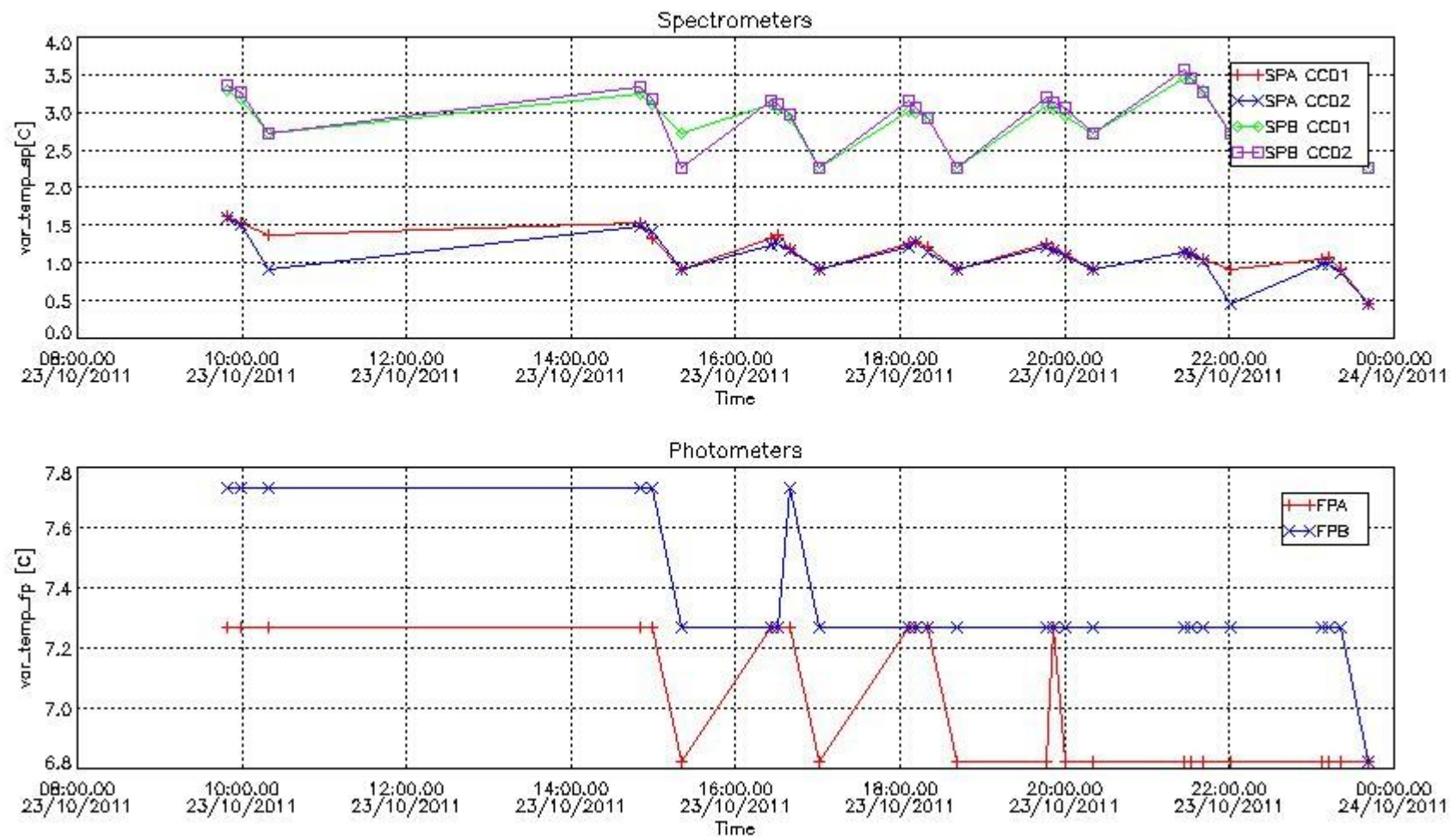
23-OCT-2011 15:04:36	The1Eri	157	50456
23-OCT-2011 15:24:26	6BetAri	105	50456
23-OCT-2011 15:28:12	43BetAnd	53	50456
23-OCT-2011 15:31:04	57Gam1And	73	50456
23-OCT-2011 15:35:13	27GamCas	76	50456
23-OCT-2011 15:51:21	50AlpUMa	36	50456
23-OCT-2011 15:52:56	48BetUMa	82	50456
23-OCT-2011 15:56:27	52PsiUMa	174	50456
23-OCT-2011 16:03:49	17EpsLeo	166	50456
23-OCT-2011 16:07:20	32AlpLeo	22	50456
23-OCT-2011 16:15:36	30AlpHya	48	50456
23-OCT-2011 16:24:48	LamVel	65	50456
23-OCT-2011 16:28:15	Gam2Vel	34	50457
23-OCT-2011 16:33:51	AlpCar	2	50457
23-OCT-2011 16:44:50	The1Eri	157	50457
23-OCT-2011 17:04:39	6BetAri	105	50457
23-OCT-2011 17:08:26	43BetAnd	53	50457
23-OCT-2011 17:11:18	57Gam1And	73	50457
23-OCT-2011 17:15:27	27GamCas	76	50457
23-OCT-2011 17:31:35	50AlpUMa	36	50457
23-OCT-2011 17:33:10	48BetUMa	82	50457
23-OCT-2011 17:36:41	52PsiUMa	174	50457
23-OCT-2011 17:44:03	17EpsLeo	166	50457
23-OCT-2011 17:47:34	32AlpLeo	22	50457
23-OCT-2011 17:55:51	30AlpHya	48	50457
23-OCT-2011 18:05:03	LamVel	65	50457
23-OCT-2011 18:08:30	Gam2Vel	34	50458
23-OCT-2011 18:14:06	AlpCar	2	50458
23-OCT-2011 18:25:04	The1Eri	157	50458
23-OCT-2011 18:44:53	6BetAri	105	50458
23-OCT-2011 18:48:40	43BetAnd	53	50458
23-OCT-2011 18:51:31	57Gam1And	73	50458
23-OCT-2011 18:53:31	26BetPer	79	50458
23-OCT-2011 18:55:40	27GamCas	76	50458
23-OCT-2011 18:56:26	33AlpPer	35	50458
23-OCT-2011 19:11:49	50AlpUMa	36	50458
23-OCT-2011 19:13:24	48BetUMa	82	50458
23-OCT-2011 19:16:55	52PsiUMa	174	50458
23-OCT-2011 19:24:17	17EpsLeo	166	50458
23-OCT-2011 19:27:49	32AlpLeo	22	50458
23-OCT-2011 19:36:06	30AlpHya	48	50458
23-OCT-2011 19:44:56	DSA1057	0	50458
23-OCT-2011 19:45:18	LamVel	65	50458
23-OCT-2011 19:48:45	Gam2Vel	34	50459
23-OCT-2011 19:54:21	AlpCar	2	50459
23-OCT-2011 20:05:19	The1Eri	157	50459
23-OCT-2011 20:21:00	92AlpCet	94	50459
23-OCT-2011 20:25:07	6BetAri	105	50459
23-OCT-2011 20:28:53	43BetAnd	53	50459
23-OCT-2011 20:31:45	57Gam1And	73	50459
23-OCT-2011 20:33:45	26BetPer	79	50459
23-OCT-2011 20:35:54	27GamCas	76	50459
23-OCT-2011 20:36:39	33AlpPer	35	50459
23-OCT-2011 20:52:03	50AlpUMa	36	50459
23-OCT-2011 20:53:38	48BetUMa	82	50459
23-OCT-2011 20:57:09	52PsiUMa	174	50459
23-OCT-2011 21:04:32	17EpsLeo	166	50459
23-OCT-2011 21:08:03	32AlpLeo	22	50459
23-OCT-2011 21:16:21	30AlpHya	48	50459

23-OCT-2011 21:25:11	DSA1057	0	50459
23-OCT-2011 21:25:32	LamVel	65	50459
23-OCT-2011 21:28:59	Gam2Vel	34	50460
23-OCT-2011 21:34:36	AlpCar	2	50460
23-OCT-2011 21:45:33	The1Eri	157	50460
23-OCT-2011 22:05:20	6BetAri	105	50460
23-OCT-2011 22:09:07	43BetAnd	53	50460
23-OCT-2011 22:11:58	57Gam1And	73	50460
23-OCT-2011 22:13:58	26BetPer	79	50460
23-OCT-2011 22:16:08	27GamCas	76	50460
23-OCT-2011 22:16:52	33AlpPer	35	50460
23-OCT-2011 22:32:17	50AlpUMa	36	50460
23-OCT-2011 22:33:52	48BetUMa	82	50460
23-OCT-2011 22:37:23	52PsiUMa	174	50460
23-OCT-2011 22:44:46	17EpsLeo	166	50460
23-OCT-2011 22:48:17	32AlpLeo	22	50460
23-OCT-2011 22:56:36	30AlpHya	48	50460
23-OCT-2011 23:05:27	DSA1057	0	50460
23-OCT-2011 23:05:47	LamVel	65	50460
23-OCT-2011 23:09:14	Gam2Vel	34	50461
23-OCT-2011 23:14:50	AlpCar	2	50461
23-OCT-2011 23:25:47	The1Eri	157	50461
23-OCT-2011 23:45:34	6BetAri	105	50461
23-OCT-2011 23:49:21	43BetAnd	53	50461
23-OCT-2011 23:52:12	57Gam1And	73	50461
23-OCT-2011 23:54:11	26BetPer	79	50461
23-OCT-2011 23:56:22	27GamCas	76	50461
23-OCT-2011 23:57:06	33AlpPer	35	50461

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_1PNPDK20111023_094936_000000643108_00008_50453_0465.N1	23-OCT-2011 09:49:36	Dark	63.500	88	31Eta CMa	2.4480	20000.	127	50453	No
2	GOM_TRA_1PNPDK20111023_095838_000000653108_00008_50453_0466.N1	23-OCT-2011 09:58:38	Dark	64.500	108	Alp Col	2.6520	15200.	129	50453	No
3	GOM_TRA_1PNPDK20111023_101938_000000593108_00008_50453_0507.N1	23-OCT-2011 10:19:38	Bright	58.500	94	92Alp Cet	2.5260	3100.0	117	50453	No
4	GOM_TRA_1PNPDK20111023_145023_000000673108_00011_50456_0590.N1	23-OCT-2011 14:50:23	Dark	66.500	88	31Eta CMa	2.4480	20000.	133	50456	No
5	GOM_TRA_1PNPDK20111023_145923_000000633108_00011_50456_0591.N1	23-OCT-2011 14:59:23	Dark	62.500	108	Alp Col	2.6520	15200.	125	50456	No
6	GOM_TRA_1PNPDK20111023_152018_000000593108_00011_50456_0612.N1	23-OCT-2011 15:20:18	Bright	59.000	94	92Alp Cet	2.5260	3100.0	118	50456	No
7	GOM_TRA_1PNPDK20111023_162550_000000643108_00011_50456_0613.N1	23-OCT-2011 16:25:50	Dark	64.000	132	15Rho Pup	2.8030	6900.0	128	50456	No
8	GOM_TRA_1PNPDK20111023_163039_000000693108_00012_50457_0614.N1	23-OCT-2011 16:30:39	Dark	69.000	88	31Eta CMa	2.4480	20000.	138	50457	No
9	GOM_TRA_1PNPDK20111023_163939_000000633108_00012_50457_0615.N1	23-OCT-2011 16:39:39	Dark	63.000	108	Alp Col	2.6520	15200.	126	50457	No
10	GOM_TRA_1PNPDK20111023_170032_000000603108_00012_50457_0646.N1	23-OCT-2011 17:00:32	Bright	59.500	94	92Alp Cet	2.5260	3100.0	119	50457	No
11	GOM_TRA_1PNPDK20111023_180606_000000623108_00012_50457_0647.N1	23-OCT-2011 18:06:06	Dark	61.500	132	15Rho Pup	2.8030	6900.0	123	50457	No
12	GOM_TRA_1PNPDK20111023_181054_000000673108_00013_50458_0648.N1	23-OCT-2011 18:10:54	Dark	66.500	88	31Eta CMa	2.4480	20000.	133	50458	No
13	GOM_TRA_1PNPDK20111023_181954_000000633108_00013_50458_0649.N1	23-OCT-2011 18:19:54	Dark	63.000	108	Alp Col	2.6520	15200.	126	50458	No
14	GOM_TRA_1PNPDK20111023_184045_000000603108_00013_50458_0678.N1	23-OCT-2011 18:40:45	Bright	59.500	94	92Alp Cet	2.5260	3100.0	119	50458	No
15	GOM_TRA_1PNPDK20111023_194621_000000623108_00013_50458_0679.N1	23-OCT-2011 19:46:21	Dark	62.000	132	15Rho Pup	2.8030	6900.0	124	50458	No
16	GOM_TRA_1PNPDK20111023_195110_000000683108_00014_50459_0680.N1	23-OCT-2011 19:51:10	Dark	68.000	88	31Eta CMa	2.4480	20000.	136	50459	No
17	GOM_TRA_1PNPDK20111023_200009_000000633108_00014_50459_0681.N1	23-OCT-2011 20:00:09	Dark	63.000	108	Alp Col	2.6520	15200.	126	50459	No
18	GOM_TRA_1PNPDE20111023_202058_000000613108_00014_50459_8491.N1	23-OCT-2011 20:20:58	Bright	60.500	94	92Alp Cet	2.5260	3100.0	121	50459	No
19	GOM_TRA_1PNPDE20111023_212637_000000663108_00014_50459_8521.N1	23-OCT-2011 21:26:37	Dark	65.500	132	15Rho Pup	2.8030	6900.0	131	50459	No
20	GOM_TRA_1PNPDE20111023_213126_000000693108_00015_50460_8522.N1	23-OCT-2011 21:31:26	Dark	69.000	88	31Eta CMa	2.4480	20000.	138	50460	No
21	GOM_TRA_1PNPDE20111023_214024_000000623108_00015_50460_8523.N1	23-OCT-2011 21:40:24	Dark	61.500	108	Alp Col	2.6520	15200.	123	50460	No
22	GOM_TRA_1PNPDE20111023_220112_000000613108_00015_50460_8524.N1	23-OCT-2011 22:01:12	Bright	61.000	94	92Alp Cet	2.5260	3100.0	122	50460	No
23	GOM_TRA_1PNPDE20111023_230652_000000633108_00015_50460_8555.N1	23-OCT-2011 23:06:52	Dark	63.000	132	15Rho Pup	2.8030	6900.0	126	50460	No
24	GOM_TRA_1PNPDE20111023_231141_000000663108_00016_50461_8556.N1	23-OCT-2011 23:11:41	Dark	65.500	88	31Eta CMa	2.4480	20000.	131	50461	No
25	GOM_TRA_1PNPDE20111023_232039_000000653108_00016_50461_8557.N1	23-OCT-2011 23:20:39	Dark	64.500	108	Alp Col	2.6520	15200.	129	50461	No
26	GOM_TRA_1PNPDE20111023_234125_000000613108_00016_50461_8558.N1	23-OCT-2011 23:41:25	Bright	61.000	94	92Alp Cet	2.5260	3100.0	122	50461	No

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



4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

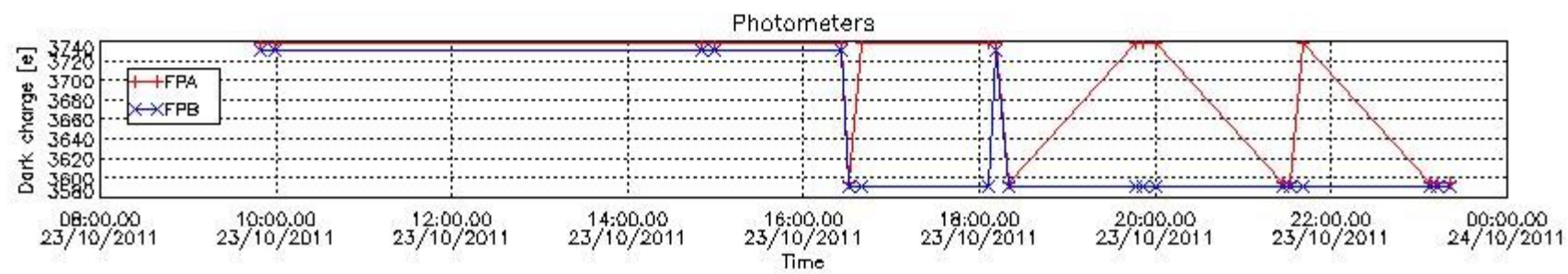
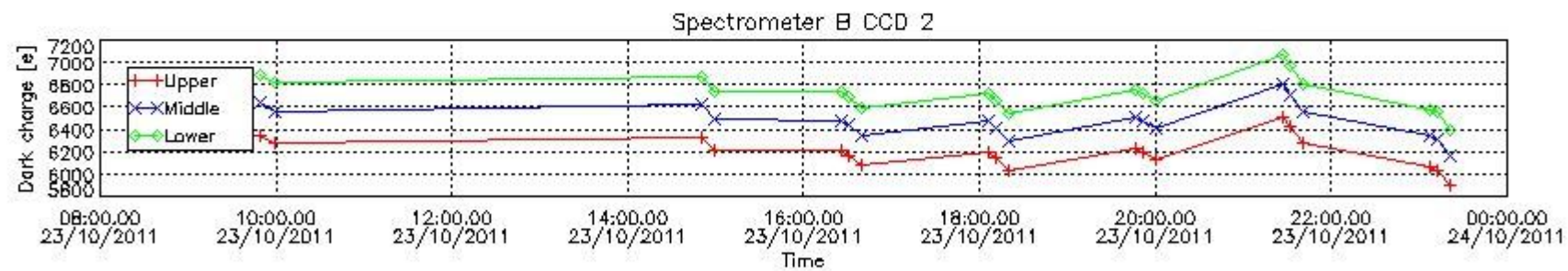
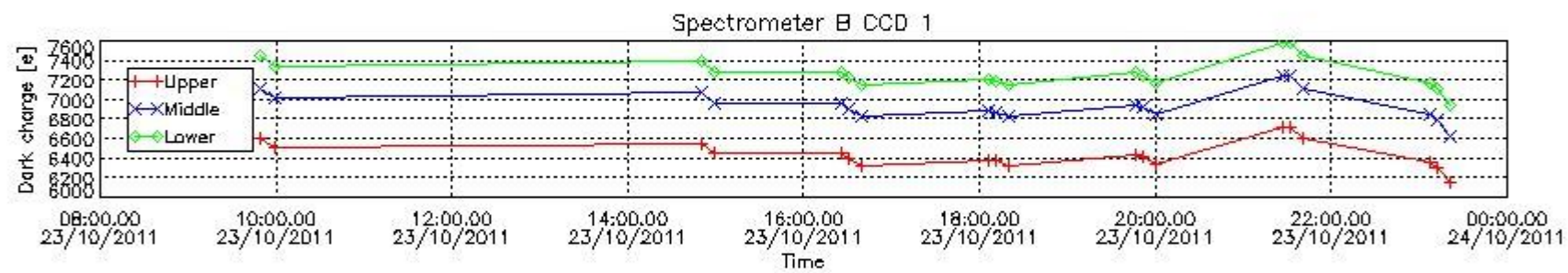
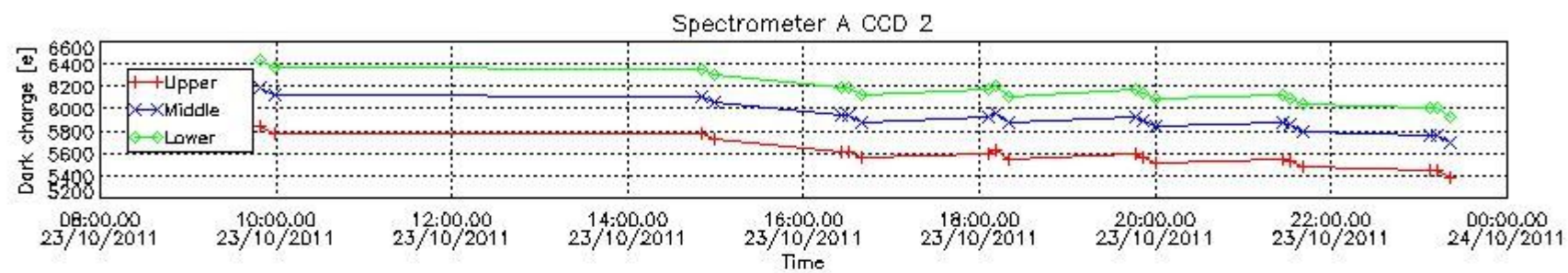
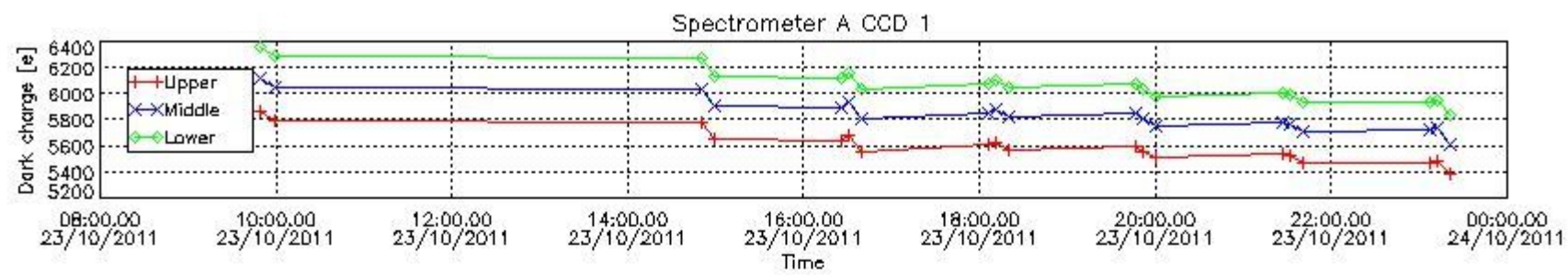
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDK20111023_094936_000000643108_00008_50453_0465.N1	DC map used
GOM_TRA_1PNPDK20111023_095838_000000653108_00008_50453_0466.N1	DC map used
GOM_TRA_1PNPDK20111023_101938_000000593108_00008_50453_0507.N1	DC map used
GOM_TRA_1PNPDK20111023_145023_000000673108_00011_50456_0590.N1	DC map used
GOM_TRA_1PNPDK20111023_145923_000000633108_00011_50456_0591.N1	DC map used
GOM_TRA_1PNPDK20111023_152018_000000593108_00011_50456_0612.N1	DC map used
GOM_TRA_1PNPDK20111023_162550_000000643108_00011_50456_0613.N1	DC map used
GOM_TRA_1PNPDK20111023_163039_000000693108_00012_50457_0614.N1	DC map used
GOM_TRA_1PNPDK20111023_163939_000000633108_00012_50457_0615.N1	DC map used
GOM_TRA_1PNPDK20111023_170032_000000603108_00012_50457_0646.N1	DC map used
GOM_TRA_1PNPDK20111023_180606_000000623108_00012_50457_0647.N1	DC map used

GOM_TRA_1PNPDK20111023_181054_000000673108_00013_50458_0648.N1	DC map used
GOM_TRA_1PNPDK20111023_181954_000000633108_00013_50458_0649.N1	DC map used
GOM_TRA_1PNPDK20111023_184045_000000603108_00013_50458_0678.N1	DC map used
GOM_TRA_1PNPDK20111023_194621_000000623108_00013_50458_0679.N1	DC map used
GOM_TRA_1PNPDK20111023_195110_000000683108_00014_50459_0680.N1	DC map used
GOM_TRA_1PNPDK20111023_200009_000000633108_00014_50459_0681.N1	DC map used
GOM_TRA_1PNPDE20111023_202058_000000613108_00014_50459_8491.N1	DC map used
GOM_TRA_1PNPDE20111023_212637_000000663108_00014_50459_8521.N1	DC map used
GOM_TRA_1PNPDE20111023_213126_000000693108_00015_50460_8522.N1	DC map used
GOM_TRA_1PNPDE20111023_214024_000000623108_00015_50460_8523.N1	DC map used
GOM_TRA_1PNPDE20111023_220112_000000613108_00015_50460_8524.N1	DC map used
GOM_TRA_1PNPDE20111023_230652_000000633108_00015_50460_8555.N1	DC map used
GOM_TRA_1PNPDE20111023_231141_000000663108_00016_50461_8556.N1	DC map used
GOM_TRA_1PNPDE20111023_232039_000000653108_00016_50461_8557.N1	DC map used
GOM_TRA_1PNPDE20111023_234125_000000613108_00016_50461_8558.N1	DC map used

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



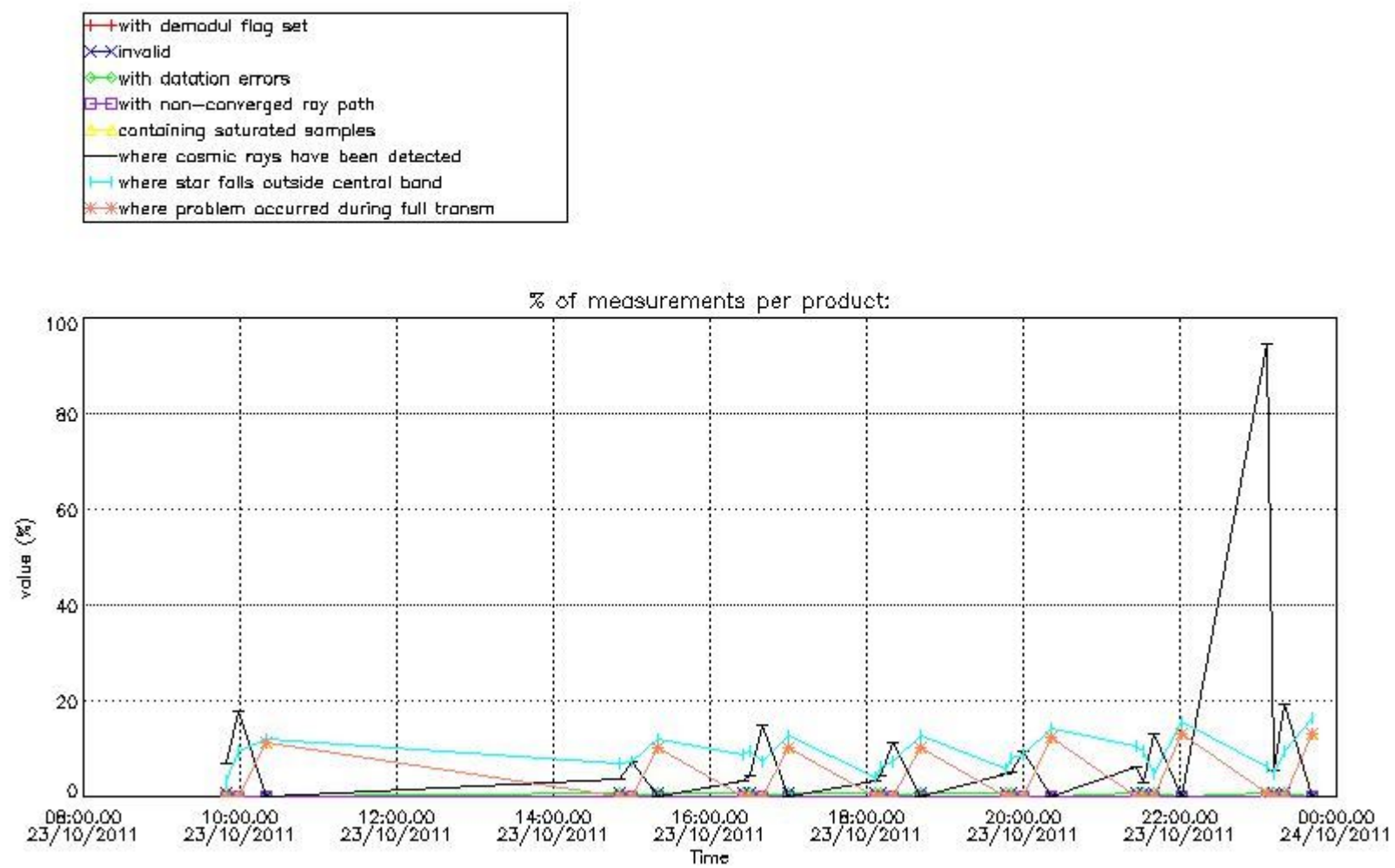
5. Demodulation flag and quality information monitoring

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.

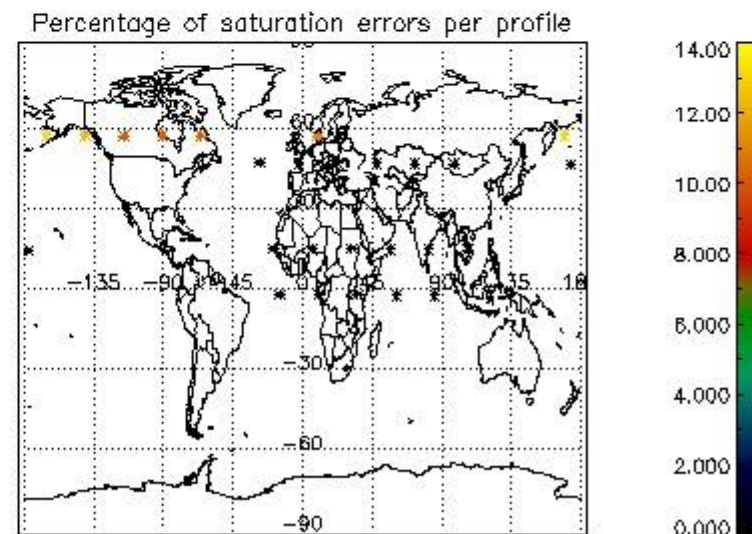
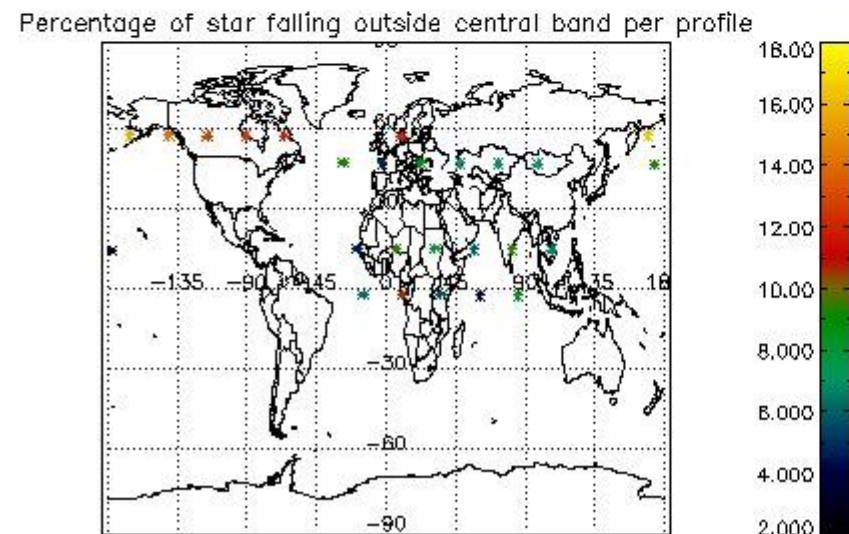
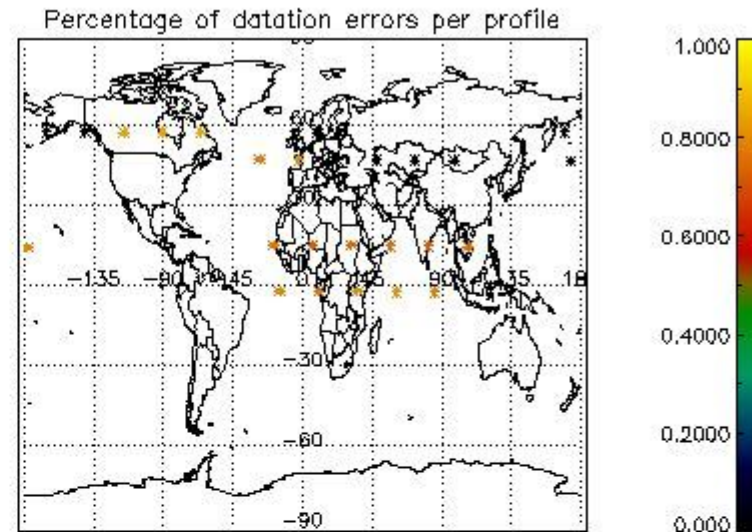
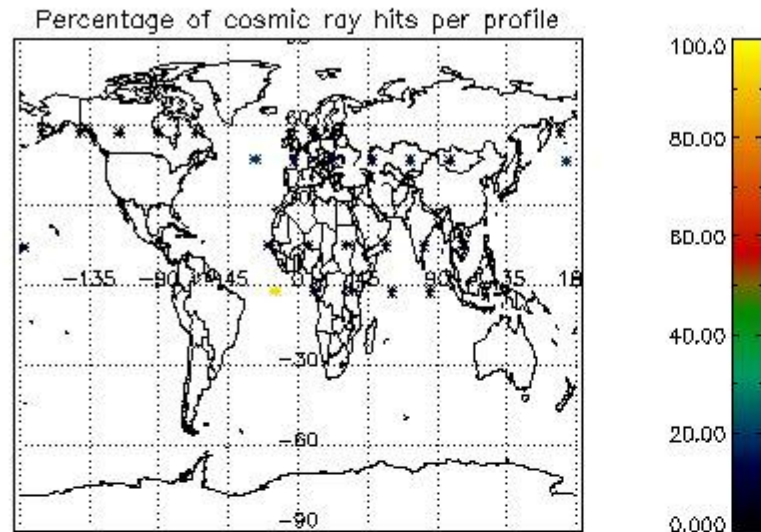
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	73.0769 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	26.9231 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



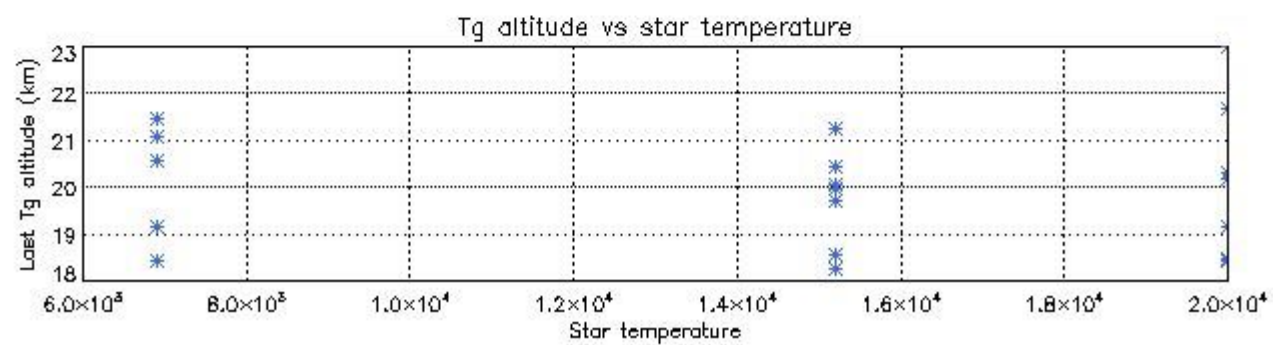
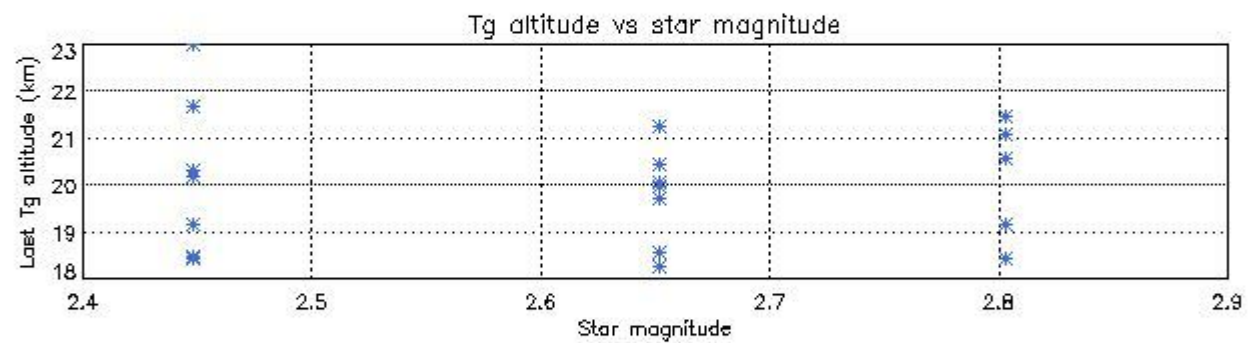
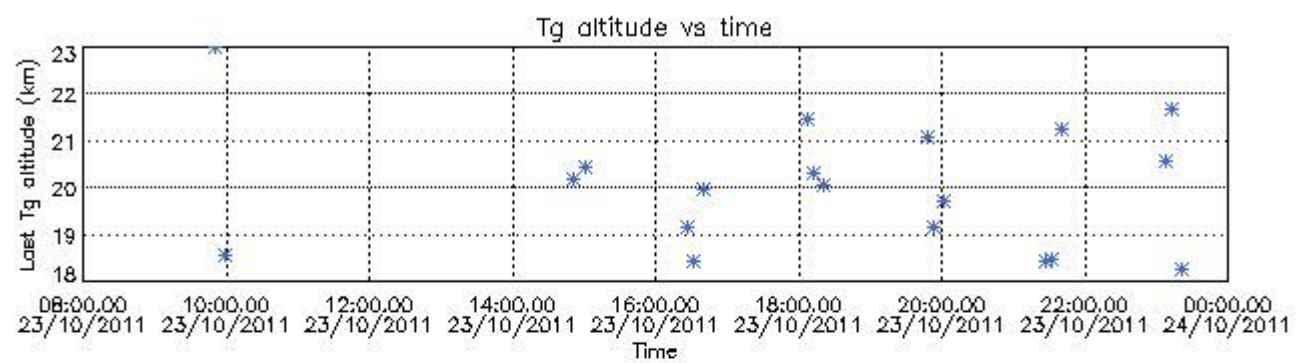
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	20.007	14.719	NaN
St. deviation:	1.3165	0.99922	NaN
Maximum:	22.989	16.131	NaN
Minimum:	18.258	13.520	NaN
Number of data:	19.000	7.0000	NaN

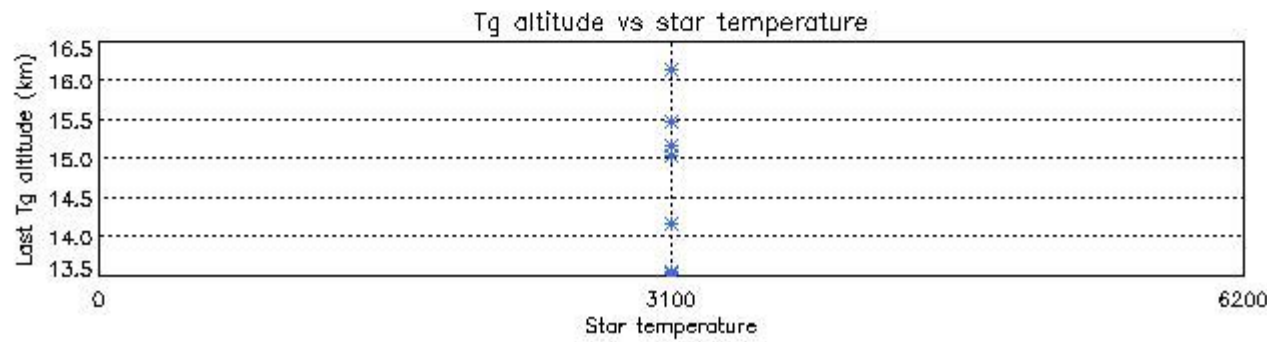
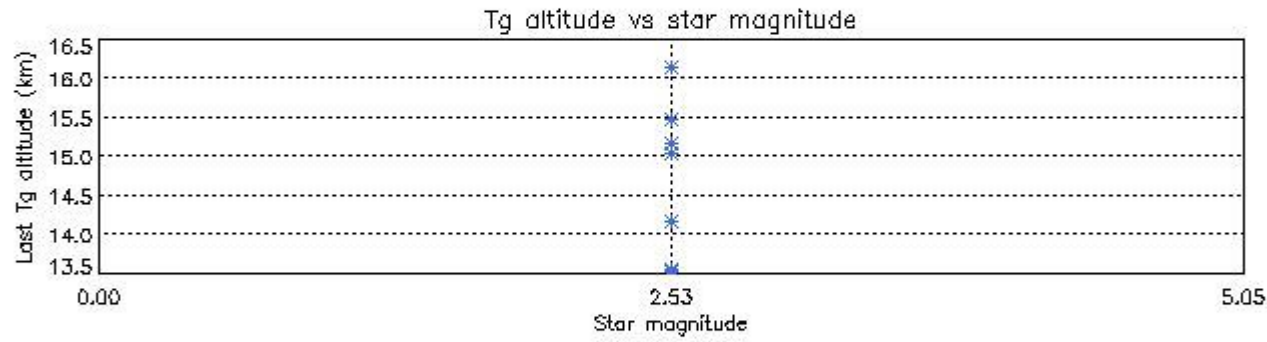
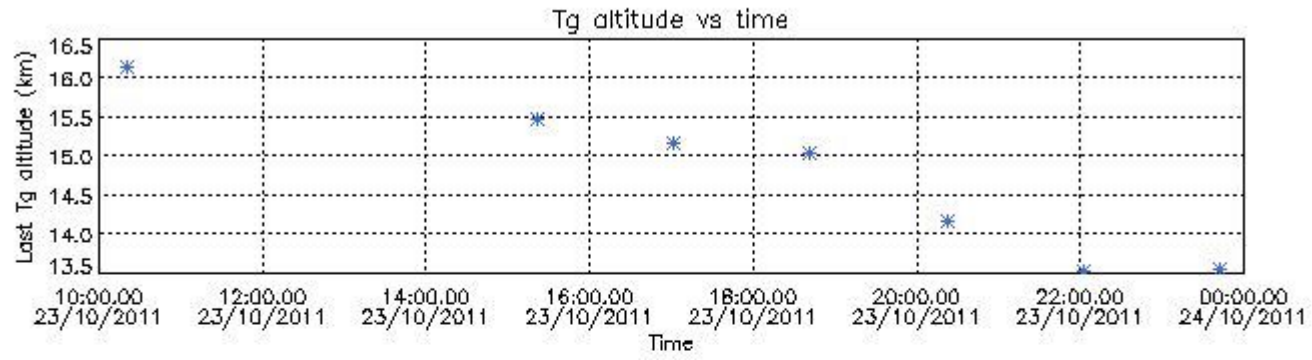
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

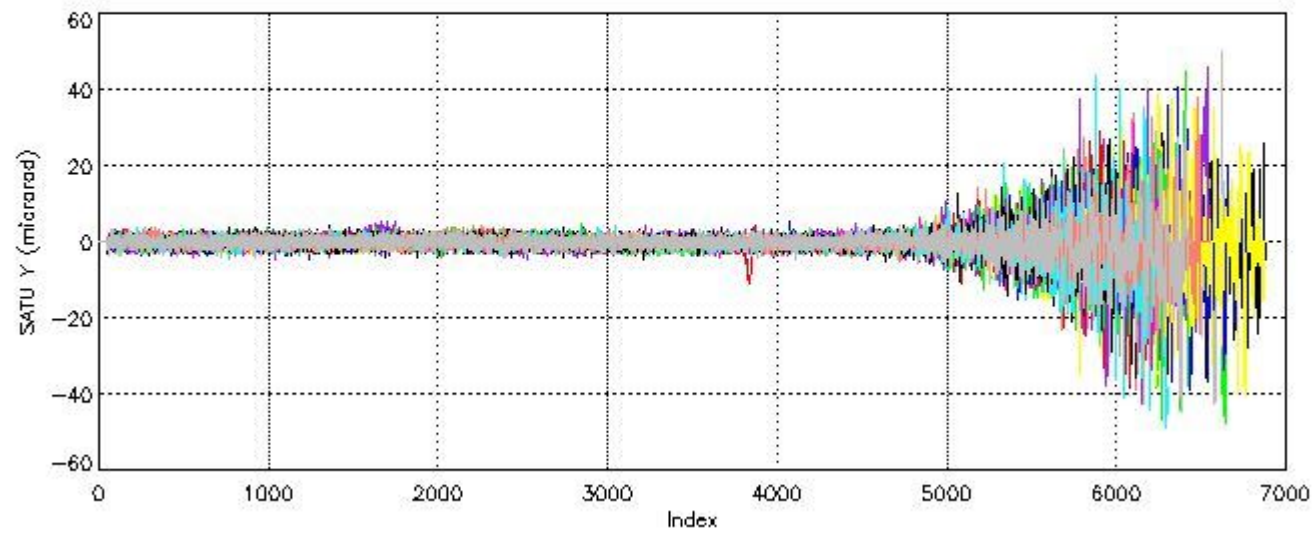
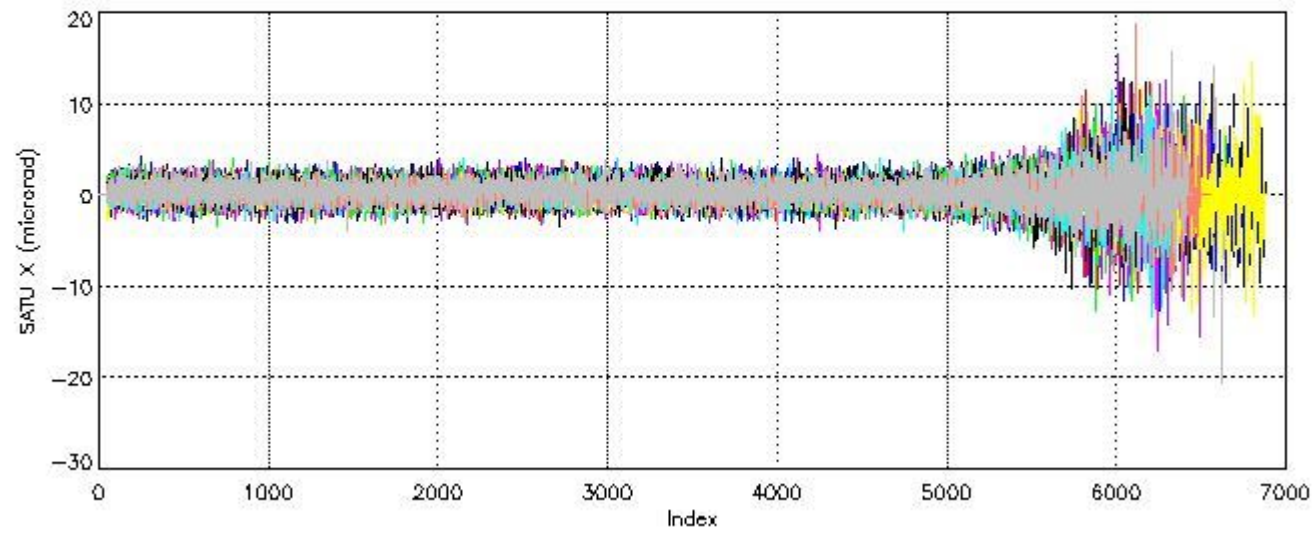


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

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

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.25963	-0.15968	0.22972	-0.16084
St. deviation:	0.87702	1.0214	0.28238	0.37369
Maximum:	4.2000	4.4000	1.5000	2.0000
Minimum:	-3.9000	-4.8000	-1.2000	-2.8000

Number of data:	29800.	29800.	9150.0	9150.0
90Percentile:	1.4000	1.1000	0.60000	0.30000

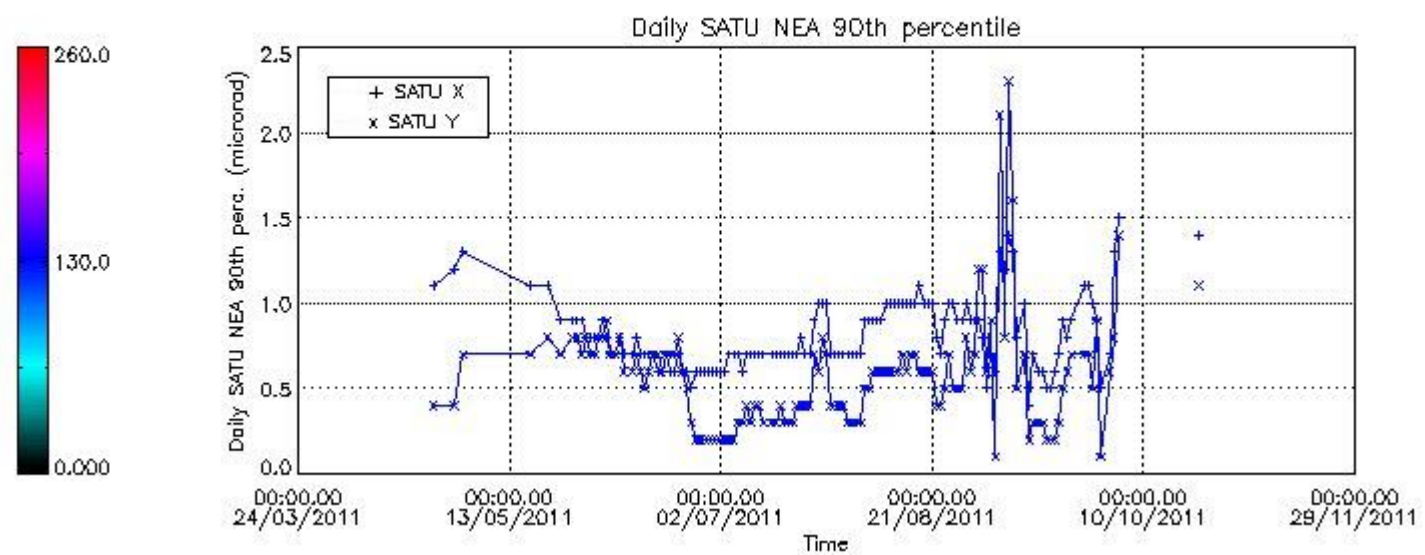
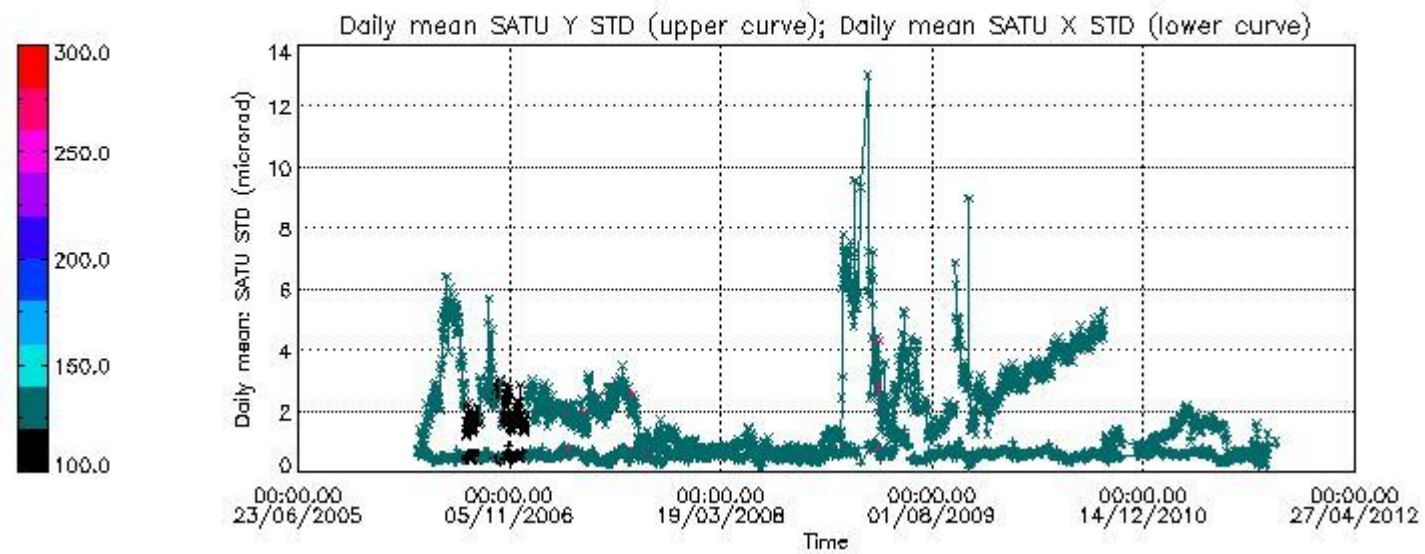
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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

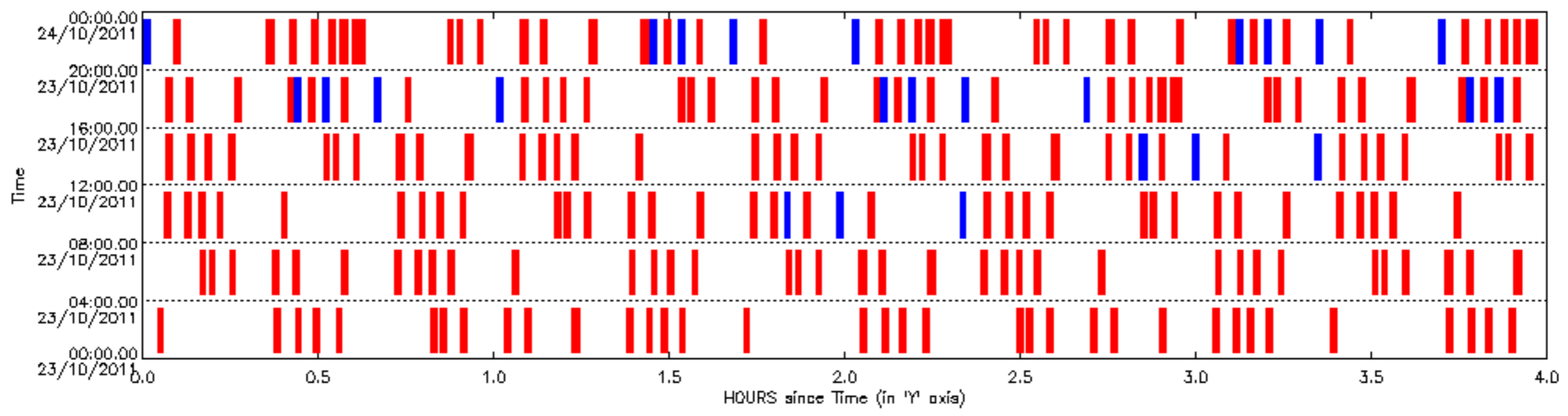
Lower curve: STD of SATU X axis

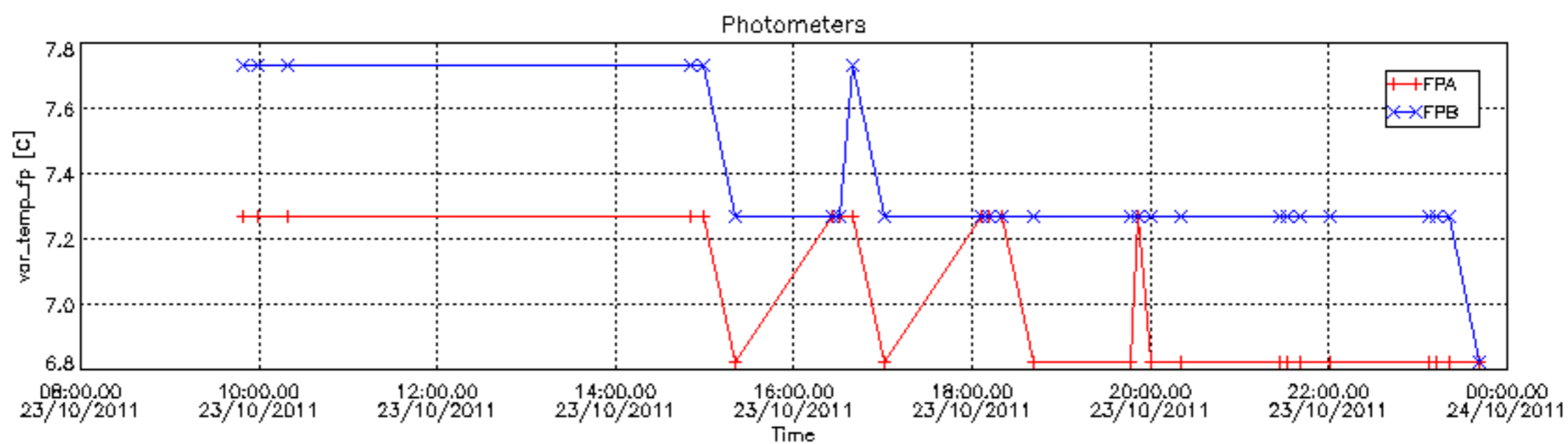
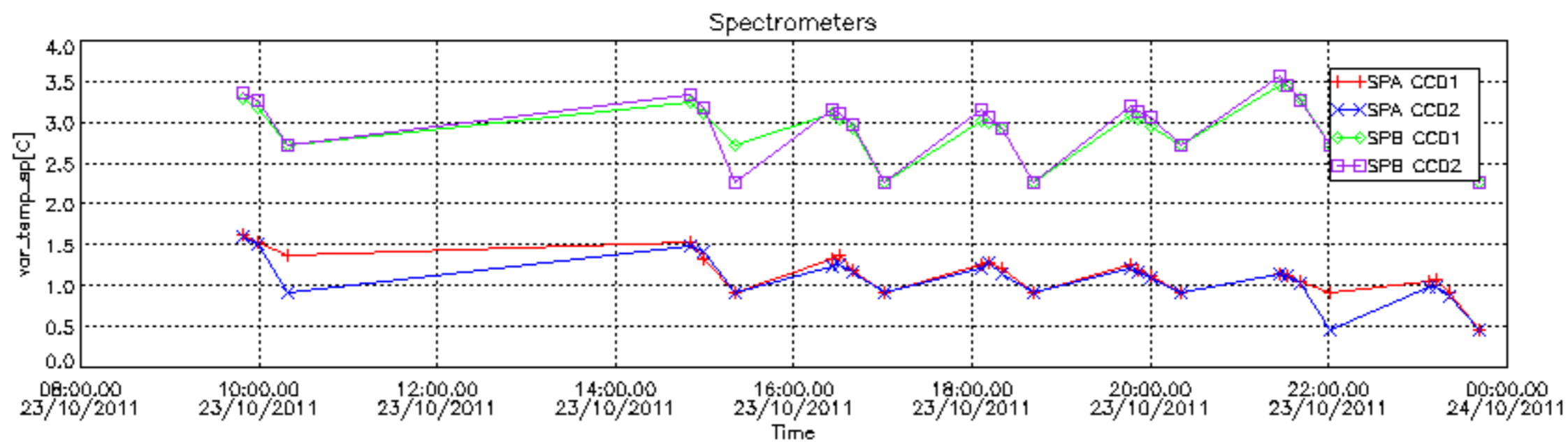


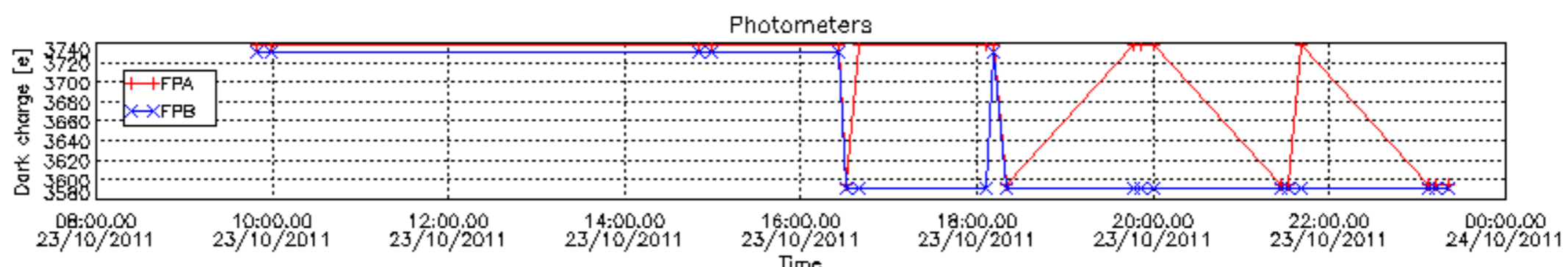
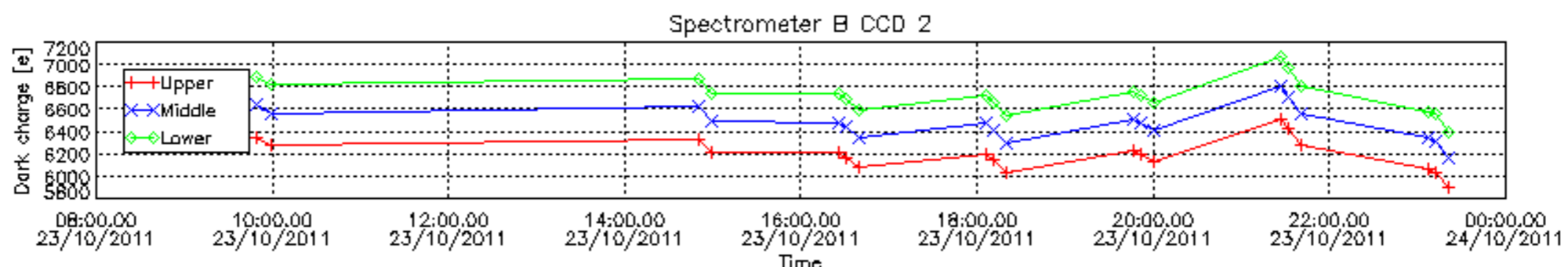
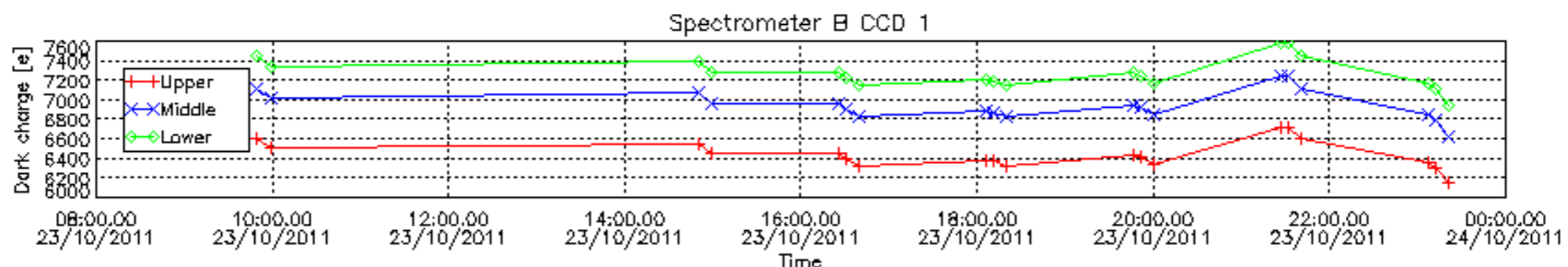
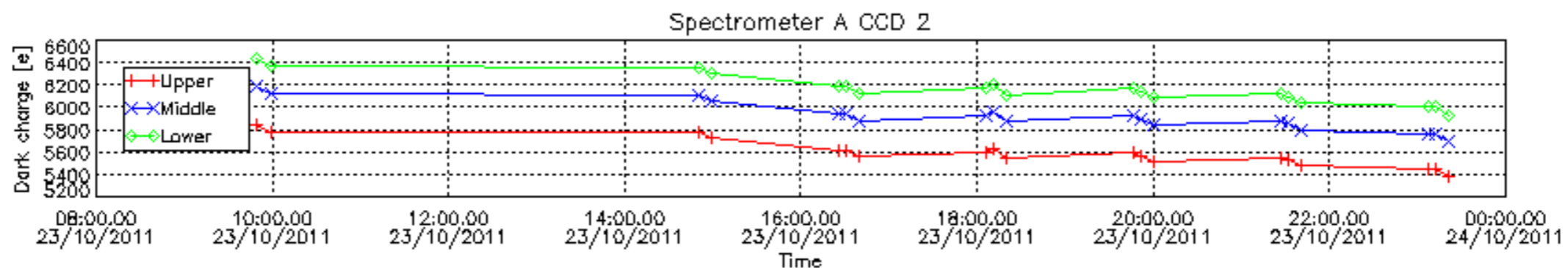
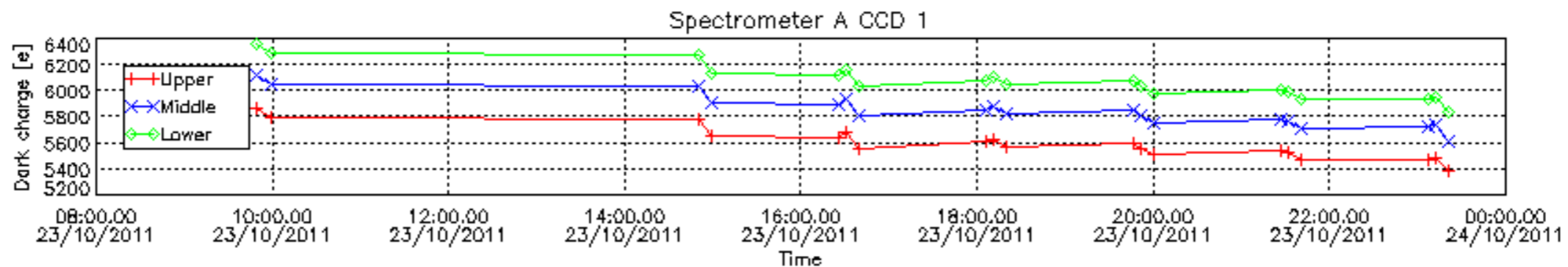
8. Auxiliary Data Files used for the production reported in section 2.4

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.

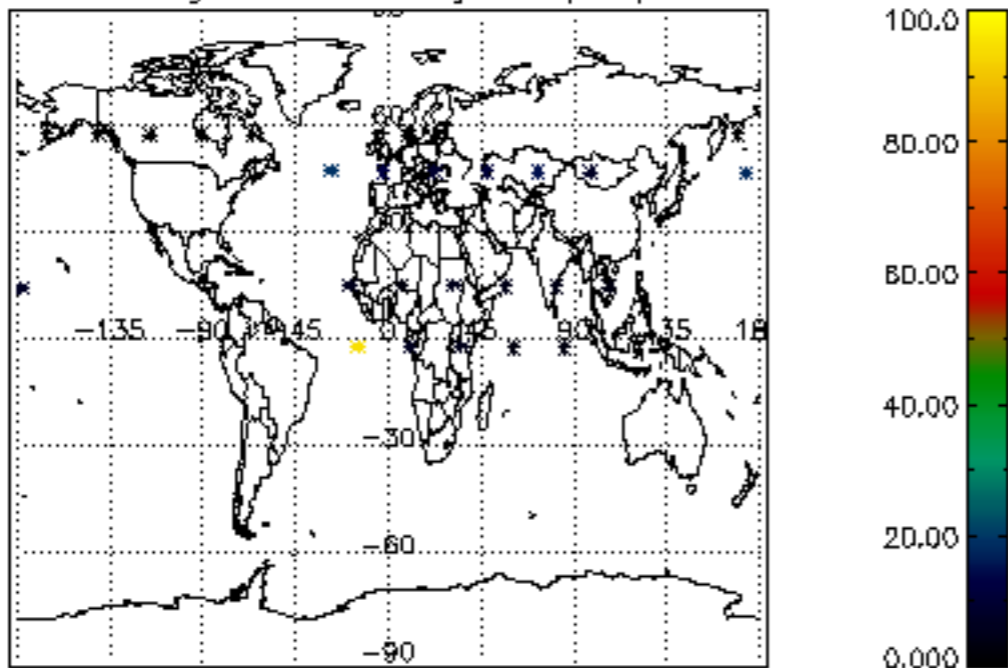
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	23-OCT-2011 09:49:36
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20111021_144853_20111020_000000_20500101_000000	1	23-OCT-2011 09:49:36
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	23-OCT-2011 09:49:36
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	23-OCT-2011 09:49:36
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	23-OCT-2011 09:49:36
ECMWF_FILE	AUX_ECF_AXNECM20111023_062453_20111023_090000_20111023_210000	1	23-OCT-2011 09:49:36
ECMWF_FILE	AUX_ECF_AXNECM20111023_062453_20111023_150000_20111024_030000	6	23-OCT-2011 15:20:18
ECMWF_FILE	AUX_ECA_AXNECM20111023_181322_20111023_090000_20111023_210000	14	23-OCT-2011 18:40:45
ECMWF_FILE	AUX_ECF_AXNECM20111023_062454_20111023_210000_20111024_090000	19	23-OCT-2011 21:26:37
OPTIONAL_ECMWF_FILE	MISSING	1	23-OCT-2011 09:49:36
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20111021_102115_20111020_195703_20111030_203031	1	23-OCT-2011 09:49:36
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20111023_102451_20111022_184333_20111101_205716	3	23-OCT-2011 10:19:38



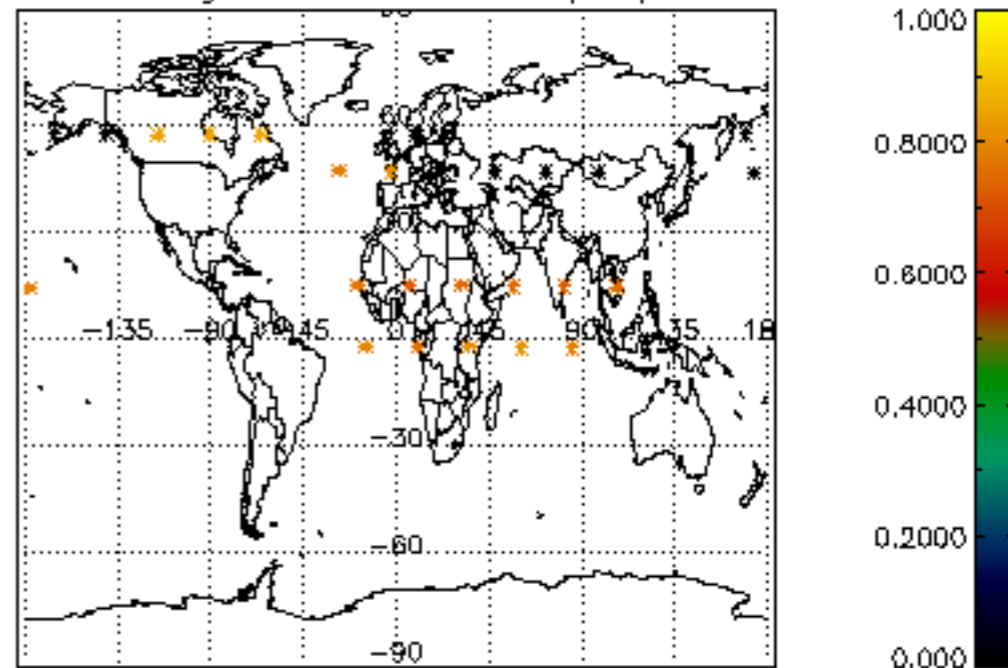




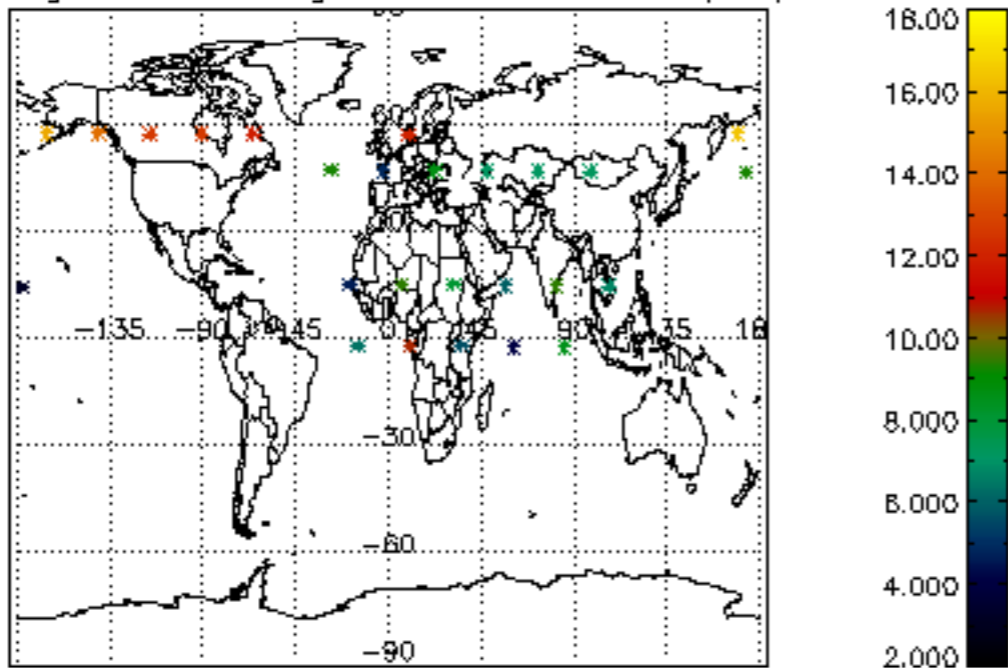
Percentage of cosmic ray hits per profile



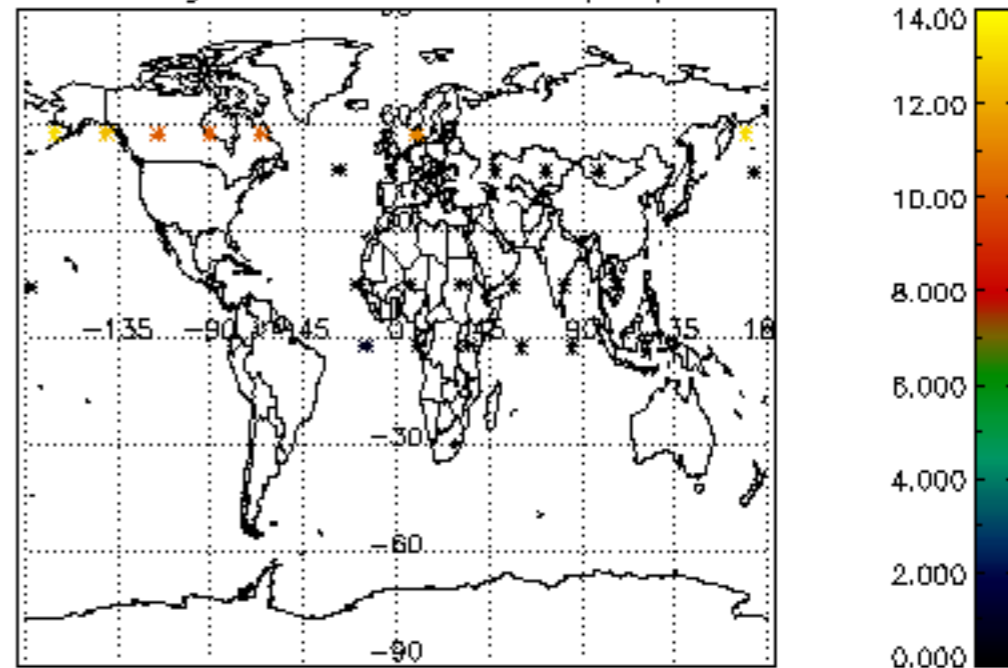
Percentage of datation errors per profile



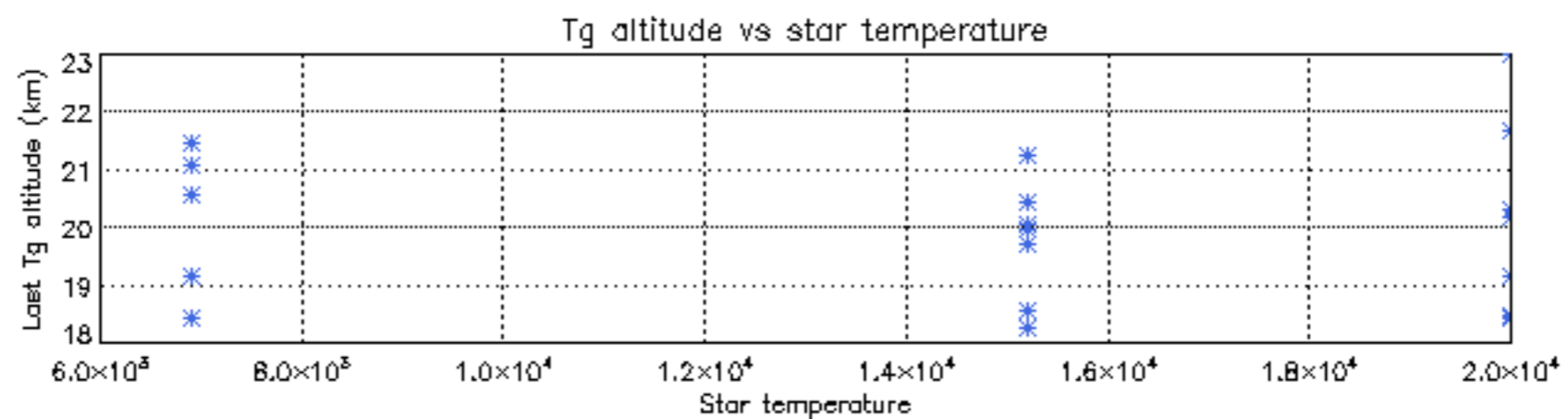
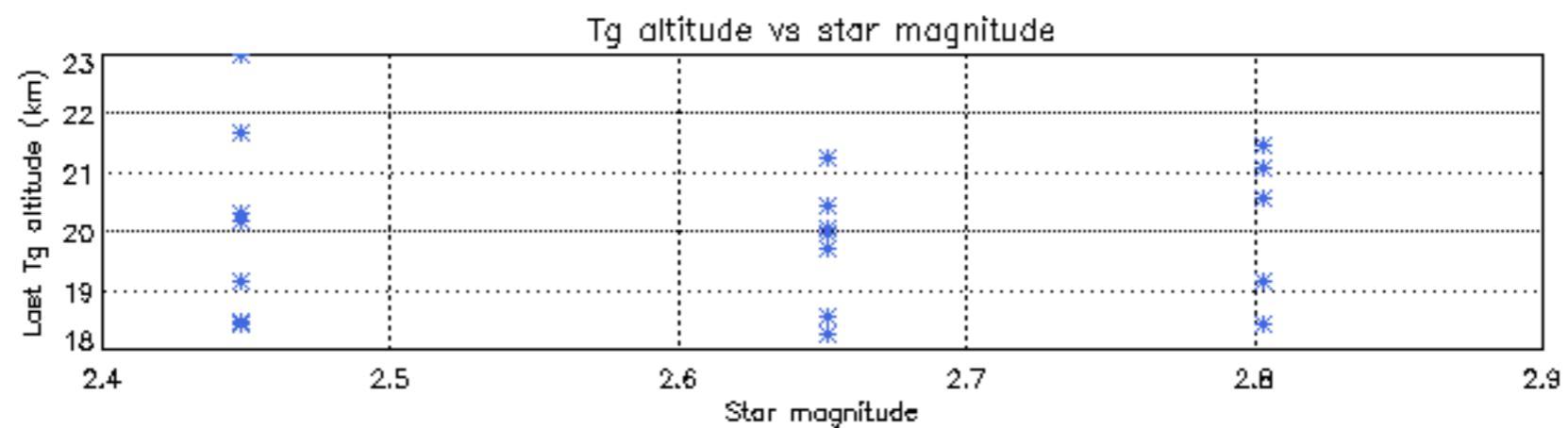
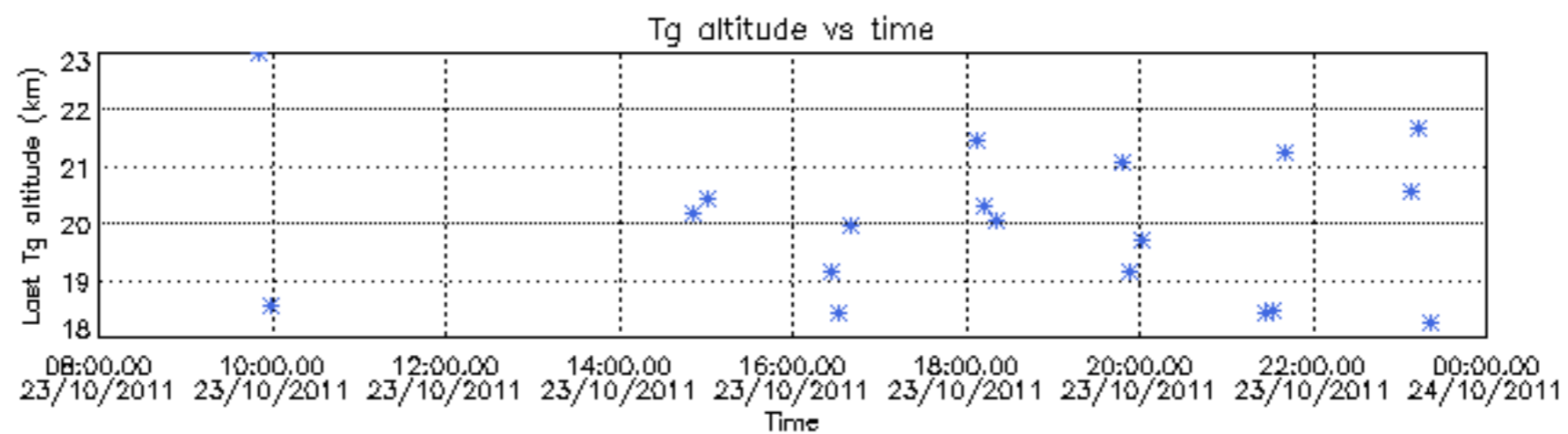
Percentage of star falling outside central band per profile



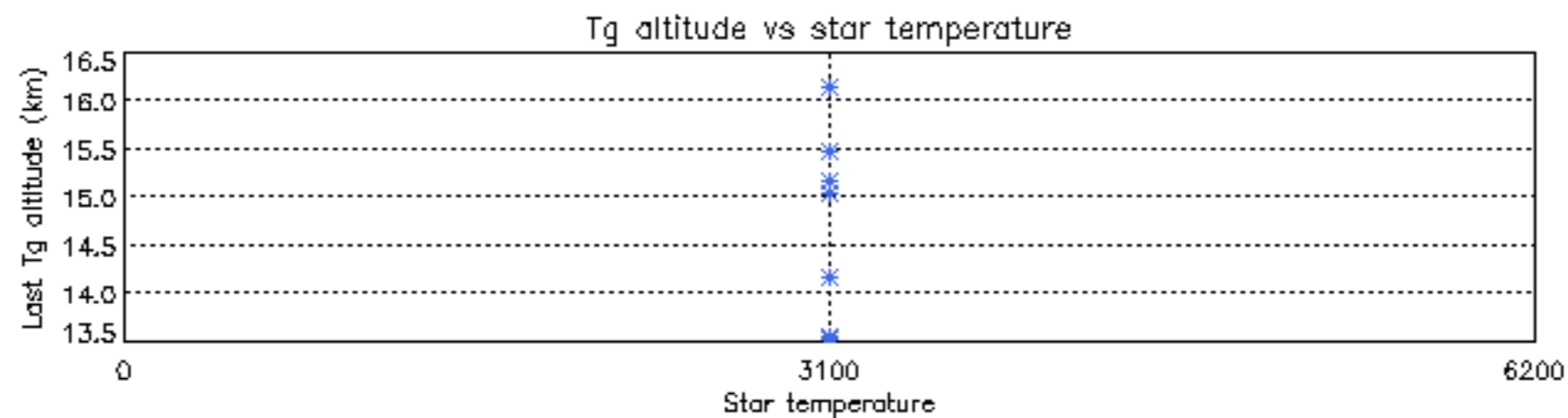
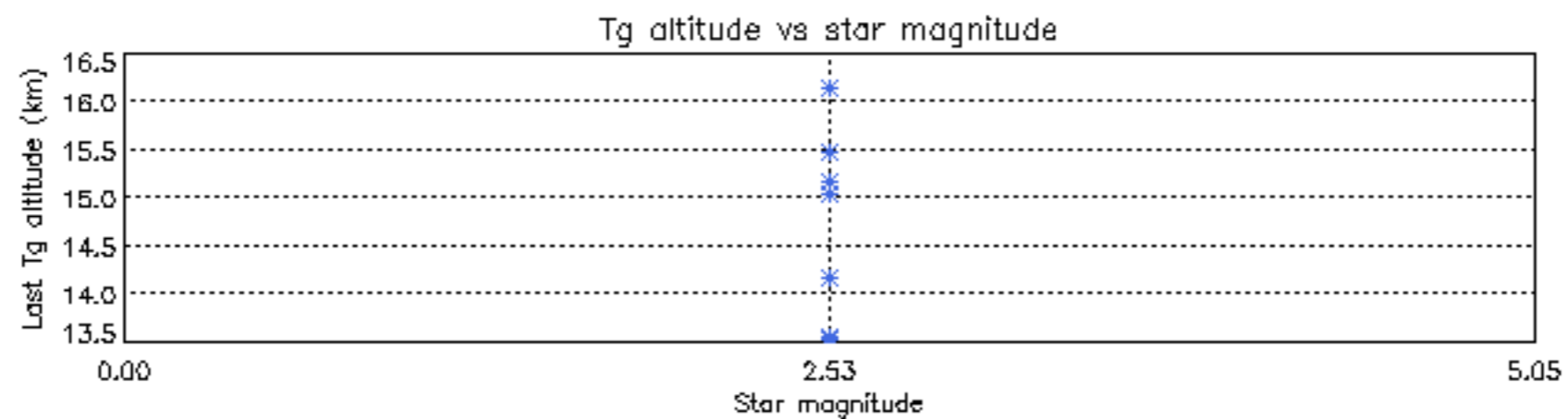
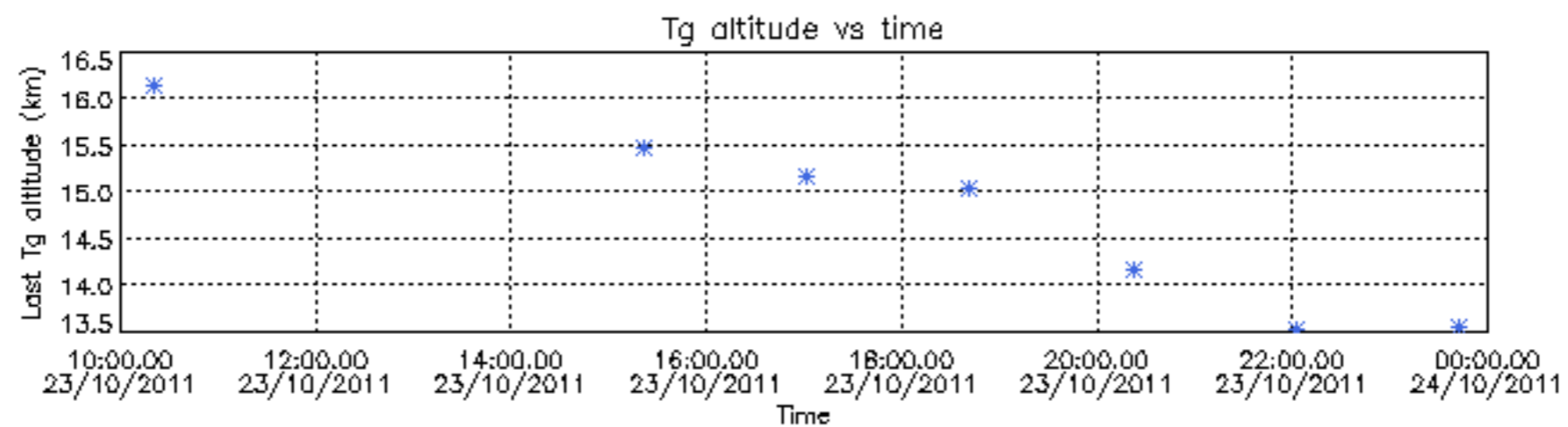
Percentage of saturation errors per profile

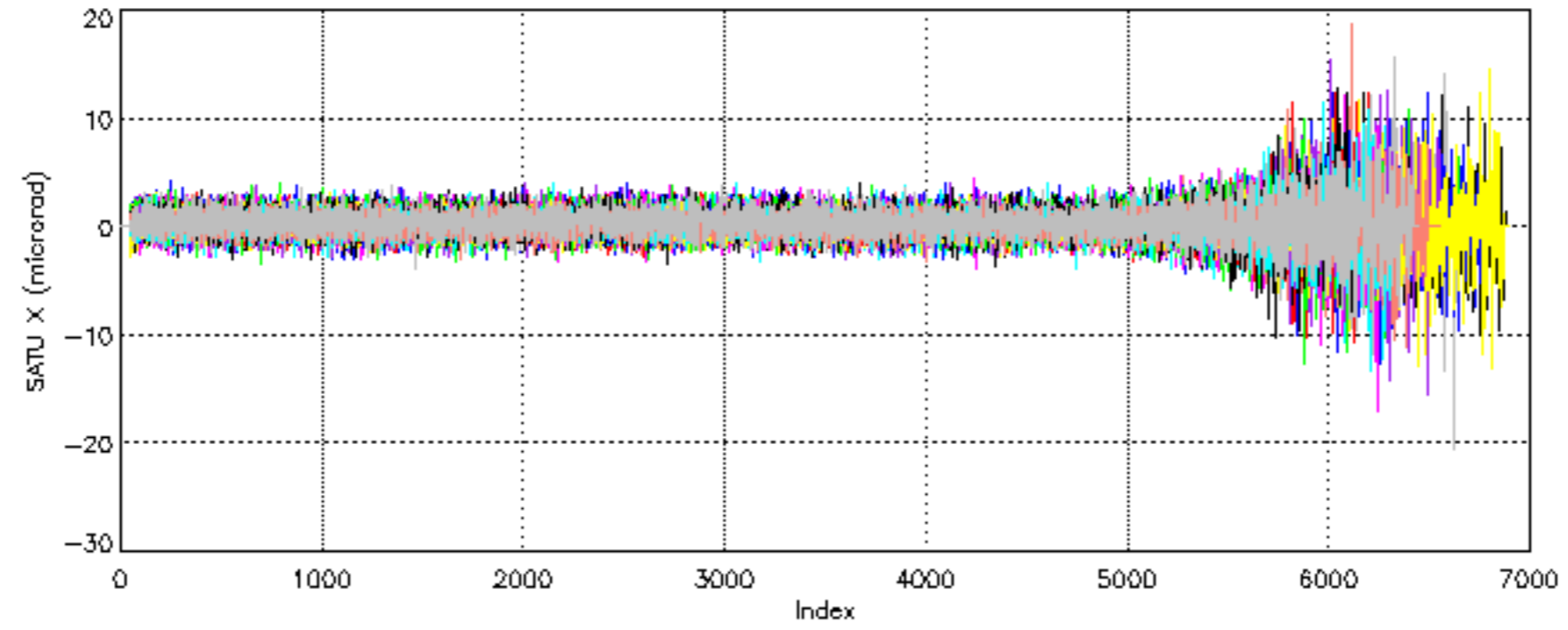


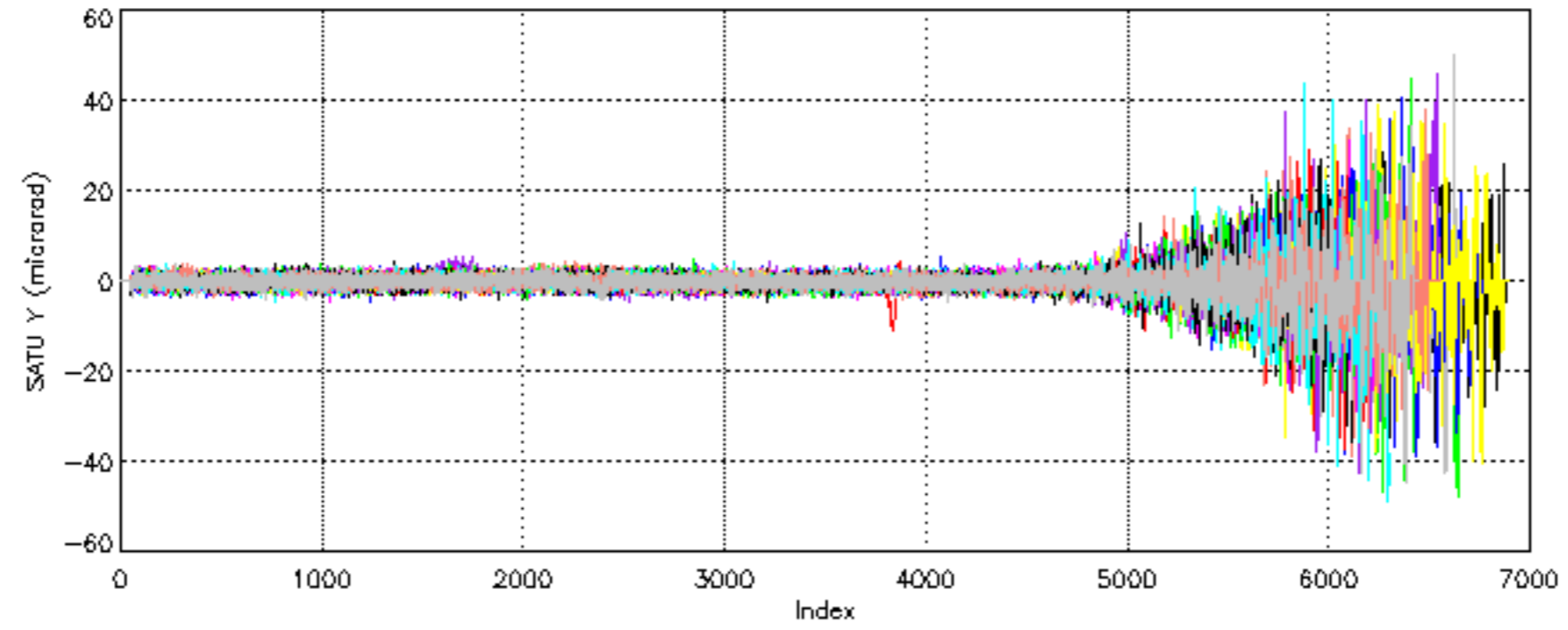
Tangent altitude at which the star is lost

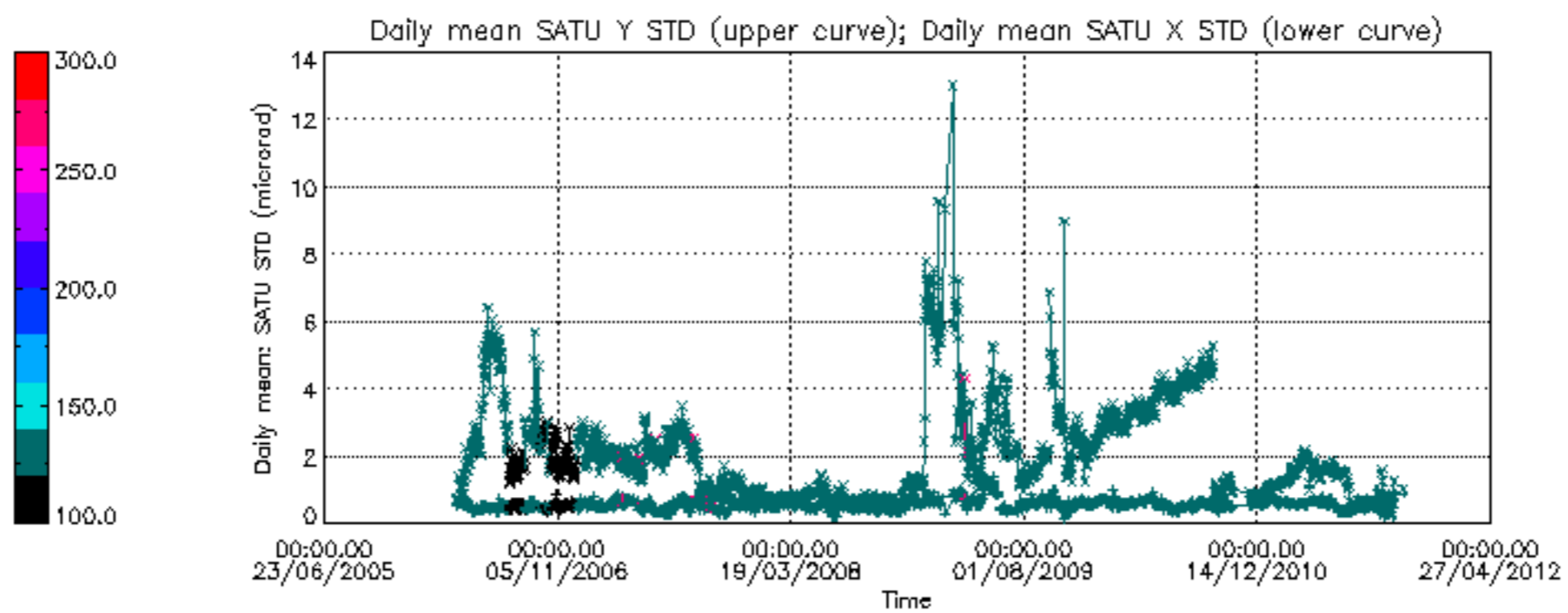


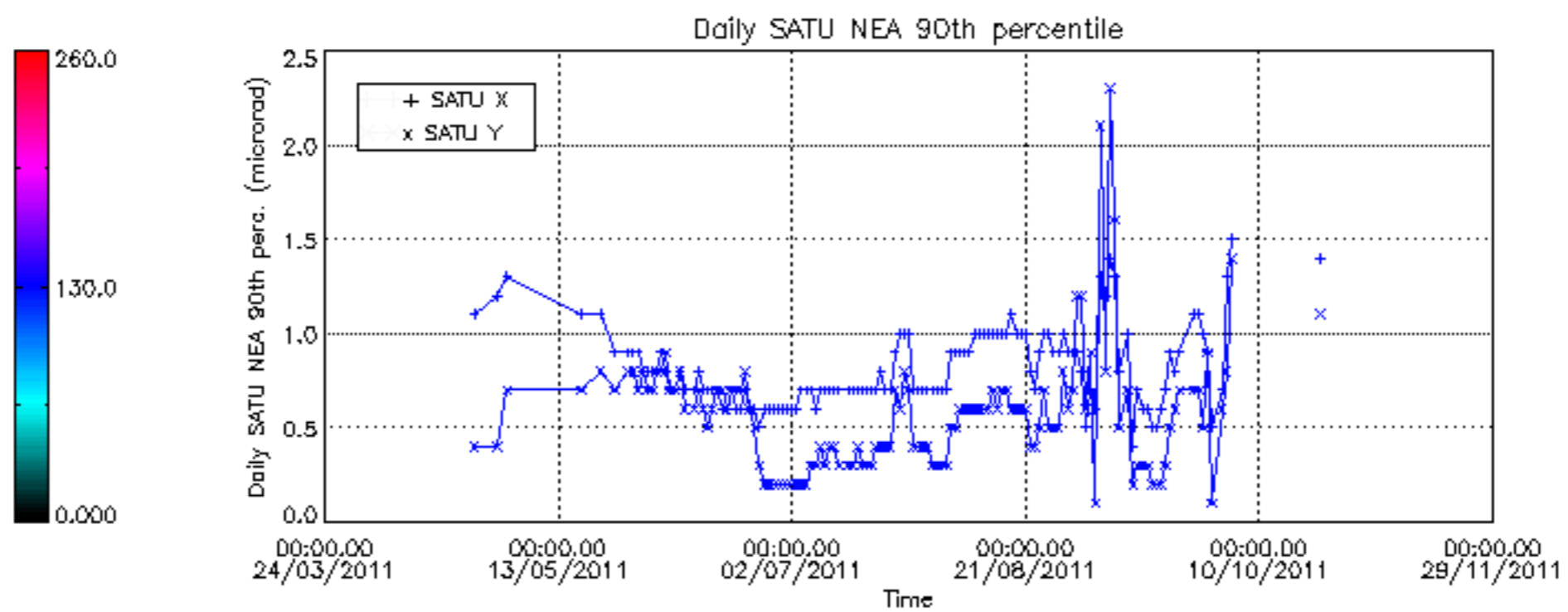
Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20111002_214039_00000423107_00144_50158_6530.N1
1; 2617.1; 02-OCT-2011 21:40:39; Bright; 42.5; 53; 43Bet And ; 2.05; 3300;occ; 85; 0;50158
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20111002_223444_000011363107_00144_50158_6531.N1
1; -151.2; 02-OCT-2011 22:34:44; Dark ; 54.5; 37; 25Del CMA ; 1.83; 5900;occ; 109; 0;50158
2; 936.0; 02-OCT-2011 22:52:51; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;50159
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20111002_182012_000033093107_00142_50156_5389.N1
1; 2618.4; 02-OCT-2011 18:20:12; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;50156
2; 3035.8; 02-OCT-2011 18:27:09; Bright; 41.0; 110; 37Del Cas ; 2.68; 8900;occ; 82; 0;50156
3; 3212.6; 02-OCT-2011 18:30:06; Bright; 51.0; 160; 23Gam Per ; 2.93; 4700;occ; 102; 0;50156
4; 5594.7; 02-OCT-2011 19:09:48; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;50156
5; 5860.2; 02-OCT-2011 19:14:14; Dark ; 68.0; 37; 25Del CMA ; 1.83; 5900;occ; 136; 0;50156
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20111002_200025_000033093107_00143_50157_5390.N1
1; 2617.7; 02-OCT-2011 20:00:25; Bright; 45.5; 53; 43Bet And ; 2.05; 3300;occ; 91; 0;50157
2; 3035.2; 02-OCT-2011 20:07:23; Bright; 41.5; 110; 37Del Cas ; 2.68; 8900;occ; 83; 0;50157
3; 5861.4; 02-OCT-2011 20:54:29; Dark ; 66.0; 37; 25Del CMA ; 1.83; 5900;occ; 132; 0;50157
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20111003_002332_00000553107_00146_50160_6532.N1
1; 363.1; 03-OCT-2011 00:23:32; Dark ; 56.0; 108; Alp Col ; 2.65; 15200;occ; 112; 0;50160
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20111003_220654_000028643107_00159_50173_6535.N1
1; 382.9; 03-OCT-2011 22:06:54; Dark ; 61.0; 108; Alp Col ; 2.65; 15200;occ; 122; 0;50173
2; 2608.3; 03-OCT-2011 22:43:59; Bright; 45.5; 53; 43Bet And ; 2.05; 3300;occ; 91; 0;50173
3; 3196.6; 03-OCT-2011 22:53:47; Bright; 50.5; 160; 23Gam Per ; 2.93; 4700;occ; 101; 0;50173
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20111003_065601_000005743107_00149_50163_5391.N1
1; -144.3; 03-OCT-2011 06:56:01; Dark ; 72.5; 37; 25Del CMA ; 1.83; 5900;occ; 145; 0;50163
2; 369.2; 03-OCT-2011 07:04:34; Dark ; 61.5; 108; Alp Col ; 2.65; 15200;occ; 123; 0;50164
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20111003_075150_000032393107_00150_50164_5392.N1
1; -2808.7; 03-OCT-2011 07:51:50; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98; 0;50164
2; -142.9; 03-OCT-2011 08:36:16; Dark ; 68.0; 37; 25Del CMA ; 1.83; 5900;occ; 136; 0;50164
3; 370.9; 03-OCT-2011 08:44:50; Dark ; 60.0; 108; Alp Col ; 2.65; 15200;occ; 120; 0;50165
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20111003_093203_000032423107_00151_50165_5393.N1
1; -2809.7; 03-OCT-2011 09:32:03; Bright; 50.5; 160; 23Gam Per ; 2.93; 4700;occ; 101; 0;50165
2; -141.5; 03-OCT-2011 10:16:32; Dark ; 61.5; 37; 25Del CMA ; 1.83; 5900;occ; 123; 0;50165
3; 372.5; 03-OCT-2011 10:25:06; Dark ; 60.0; 108; Alp Col ; 2.65; 15200;occ; 120; 0;50166
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20111003_110225_000038363107_00152_50166_5394.N1
1; 2612.3; 03-OCT-2011 11:02:25; Bright; 47.0; 53; 43Bet And ; 2.05; 3300;occ; 94; 0;50166
2; 3203.1; 03-OCT-2011 11:12:16; Bright; 50.0; 160; 23Gam Per ; 2.93; 4700;occ; 100; 0;50166
3; 5873.7; 03-OCT-2011 11:56:47; Dark ; 55.5; 37; 25Del CMA ; 1.83; 5900;occ; 111; 0;50166
4; 6387.7; 03-OCT-2011 12:05:21; Dark ; 61.5; 108; Alp Col ; 2.65; 15200;occ; 123; 0;50167
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2; 3202.2; 03-OCT-2011 12:52:29; Bright; 49.5; 160; 23Gam Per ; 2.93; 4700;occ; 99; 0;50167
3; 5875.1; 03-OCT-2011 13:37:02; Dark ; 66.5; 37; 25Del CMA ; 1.83; 5900;occ; 133; 0;50167
4; 6173.3; 03-OCT-2011 13:42:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;50168
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2; 3201.4; 03-OCT-2011 14:32:42; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;50168
3; 5948.9; 03-OCT-2011 15:18:30; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;50168
4; 6174.6; 03-OCT-2011 15:22:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;50169
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3; 5950.3; 03-OCT-2011 16:58:45; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;50169
4; 6175.9; 03-OCT-2011 17:02:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;50170
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2; 367.8; 03-OCT-2011 05:24:19; Dark ; 60.0; 108; Alp Col ; 2.65; 15200;occ; 120; 0;50163
3; 2614.2; 03-OCT-2011 06:01:45; Bright; 43.5; 53; 43Bet And ; 2.05; 3300;occ; 87; 0;50163
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2; 387.5; 04-OCT-2011 03:07:40; Dark ; 61.5; 108; Alp Col ; 2.65; 15200;occ; 123; 0;50176
3; 2606.5; 04-OCT-2011 03:44:39; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;50176
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2; 3190.0; 04-OCT-2011 10:35:19; Bright; 51.5; 160; 23Gam Per ; 2.93; 4700;occ; 103; 0;50180
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2; 2758.5; 13-OCT-2011 14:58:49; Bright; 45.0; 73; 57Gam1And ; 2.26; 13100;occ; 90; 0;50312
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2; 2635.6; 14-OCT-2011 21:00:57; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;50330
3; 2747.2; 14-OCT-2011 21:02:49; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;50330
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2; 2634.8; 14-OCT-2011 22:41:11; Bright; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;50331
3; 3062.3; 14-OCT-2011 22:48:18; Bright; 47.0; 160; 23Gam Per ; 2.93; 4700;occ; 94; 0;50331
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2;14671.1; 14-OCT-2011 05:58:59; Bright; 26.0; 173; 4Bet Tri ; 3.00; 8900;occ; 52; 0;50321
3;15098.8; 14-OCT-2011 06:06:07; Bright; 39.5; 160; 23Gam Per ; 2.93; 4700;occ; 79; 0;50321
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2; 2637.8; 14-OCT-2011 16:00:18; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;50327
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2; 2637.1; 14-OCT-2011 17:40:31; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;50328
3; 3064.6; 14-OCT-2011 17:47:38; Bright; 47.5; 160; 23Gam Per ; 2.93; 4700;occ; 95; 0;50328
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2; 2636.3; 14-OCT-2011 19:20:44; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;50329
3; 3063.8; 14-OCT-2011 19:27:52; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;50329
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2; 2633.3; 15-OCT-2011 02:01:37; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;50333
3; 3060.7; 15-OCT-2011 02:08:44; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;50333
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5; 8646.8; 15-OCT-2011 03:41:50; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;50334
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2; 2631.5; 15-OCT-2011 07:02:17; Bright; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;50336
3; 3058.6; 15-OCT-2011 07:09:24; Bright; 47.0; 160; 23Gam Per ; 2.93; 4700;occ; 94; 0;50336
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