

# GOMOS Daily Report 25-NOV-2009

## 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	28NOV2009 04:47:48
Data source version	GOMOS/5.00L04
Start time of products	25NOV2009 00:01:16
Stop time of products	25NOV2009 07:16:58
Store outputs in DB	Yes
Nb of level 1b prods	82
Nb of prods with errors	1

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

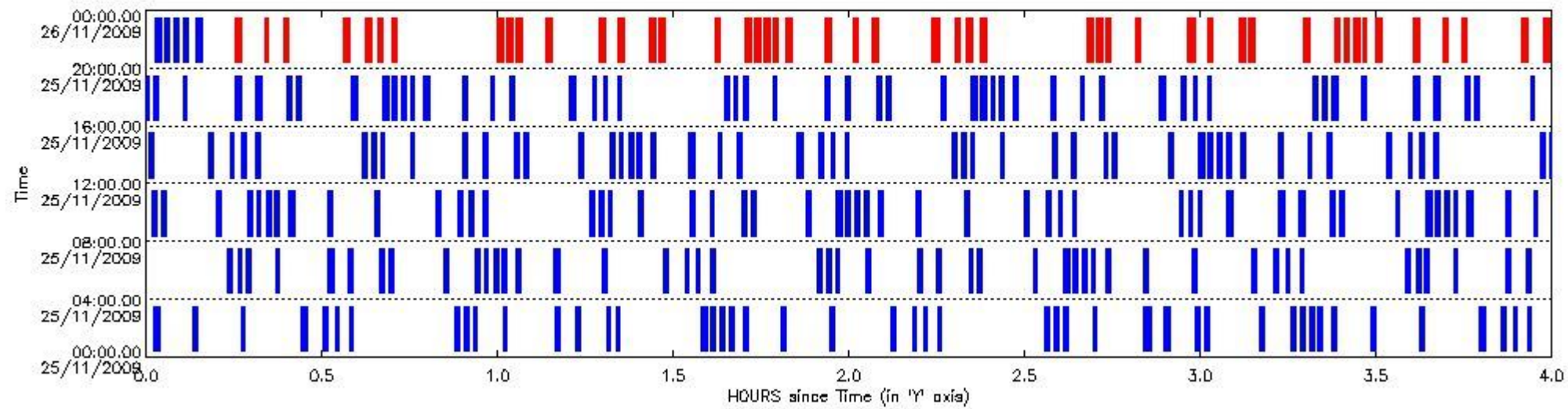
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
25-NOV-2009 20:15:14	AlpCol	108	40463
25-NOV-2009 20:20:12	9BetLep	139	40463
25-NOV-2009 20:23:25	34GamEri	165	40463
25-NOV-2009 20:33:37	87AlpTau	13	40463
25-NOV-2009 20:37:25	44ZetPer	150	40463
25-NOV-2009 20:39:26	26BetPer	79	40463
25-NOV-2009 20:41:49	39DelPer	175	40463
25-NOV-2009 20:59:59	50AlpUMa	36	40463
25-NOV-2009 21:01:37	48BetUMa	82	40463
25-NOV-2009 21:03:14	79ZetUMa	55	40463
25-NOV-2009 21:08:17	12Alp2CVn	152	40463
25-NOV-2009 21:17:11	94BetLeo	62	40463
25-NOV-2009 21:20:35	29GamVir	121	40463
25-NOV-2009 21:26:00	4GamCrv	100	40463
25-NOV-2009 21:27:34	2EpsCrv	171	40463

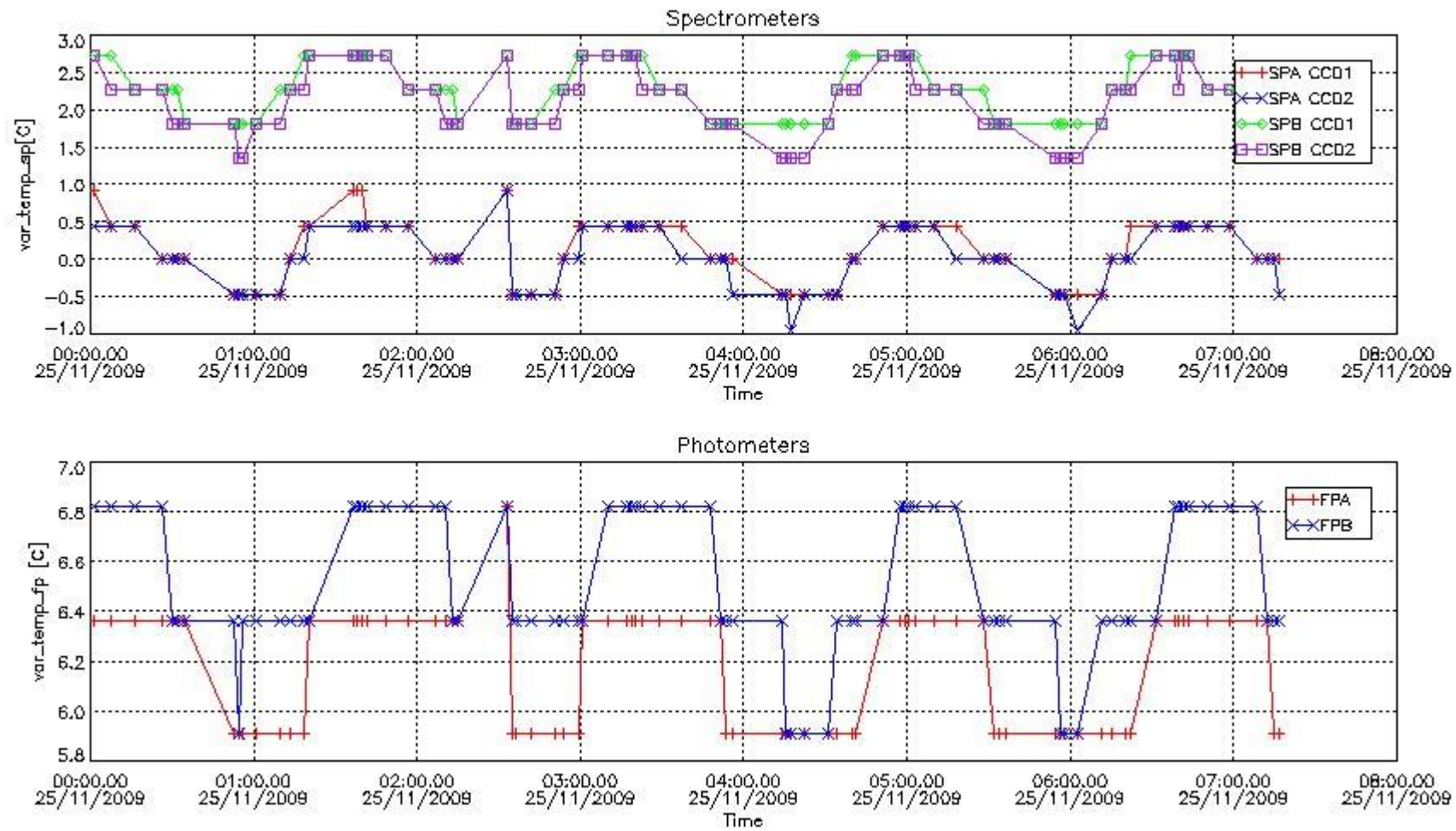
25-NOV-2009 21:37:02	MuVel	113	40464
25-NOV-2009 21:42:15	DSA1030	0	40464
25-NOV-2009 21:43:50	EpsCar	41	40464
25-NOV-2009 21:45:29	Gam2Vel	34	40464
25-NOV-2009 21:47:01	ZetPup	70	40464
25-NOV-2009 21:49:17	AlpCar	2	40464
25-NOV-2009 21:55:50	AlpCol	108	40464
25-NOV-2009 22:00:49	9BetLep	139	40464
25-NOV-2009 22:04:02	34GamEri	165	40464
25-NOV-2009 22:14:12	87AlpTau	13	40464
25-NOV-2009 22:18:01	44ZetPer	150	40464
25-NOV-2009 22:20:02	26BetPer	79	40464
25-NOV-2009 22:22:25	39DelPer	175	40464
25-NOV-2009 22:40:35	50AlpUMa	36	40464
25-NOV-2009 22:42:13	48BetUMa	82	40464
25-NOV-2009 22:43:50	79ZetUMa	55	40464
25-NOV-2009 22:48:53	12Alp2CVn	152	40464
25-NOV-2009 22:57:47	94BetLeo	62	40464
25-NOV-2009 23:01:12	29GamVir	121	40464
25-NOV-2009 23:06:37	4GamCrv	100	40464
25-NOV-2009 23:08:11	2EpsCrv	171	40464
25-NOV-2009 23:17:39	MuVel	113	40465
25-NOV-2009 23:22:52	DSA1030	0	40465
25-NOV-2009 23:24:26	EpsCar	41	40465
25-NOV-2009 23:26:06	Gam2Vel	34	40465
25-NOV-2009 23:27:38	ZetPup	70	40465
25-NOV-2009 23:29:53	AlpCar	2	40465
25-NOV-2009 23:36:26	AlpCol	108	40465
25-NOV-2009 23:41:25	9BetLep	139	40465
25-NOV-2009 23:44:38	34GamEri	165	40465
25-NOV-2009 23:54:48	87AlpTau	13	40465
25-NOV-2009 23:58:36	44ZetPer	150	40465

#### 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_1PNPDE20091125_000116_000000562084_00317_40451_4429.N1	25-NOV-2009 00:01:16	Dark	55.500	2	Alp Car	-0.73600	7000.0	111	40451	No
2	GOM_TRA_1PNPDE20091125_000750_000000522084_00317_40451_4430.N1	25-NOV-2009 00:07:50	Dark	52.000	108	Alp Col	2.6520	15200.	104	40451	No
3	GOM_TRA_1PNPDE20091125_001607_000000462084_00317_40451_4431.N1	25-NOV-2009 00:16:07	Straylight	46.000	165	34Gam Eri	2.9500	3200.0	92	40451	No
4	GOM_TRA_1PNPDE20091125_002625_000000592084_00317_40451_4432.N1	25-NOV-2009 00:26:25	Bright	59.000	13	87Alp Tau	0.86700	3800.0	118	40451	No
5	GOM_TRA_1PNPDE20091125_003011_000000422084_00317_40451_4433.N1	25-NOV-2009 00:30:11	Bright	41.500	150	44Zet Per	2.8900	28000.	83	40451	No
6	GOM_TRA_1PNPDE20091125_003210_000000382084_00317_40451_4434.N1	25-NOV-2009 00:32:10	Bright	38.000	79	26Bet Per	2.3100	13100.	76	40451	No
7	GOM_TRA_1PNPDE20091125_003435_000000382084_00317_40451_4435.N1	25-NOV-2009 00:34:35	Bright	37.500	175	39Del Per	3.0100	19400.	75	40451	No
8	GOM_TRA_1PNPDE20091125_005245_000000482084_00317_40451_4436.N1	25-NOV-2009 00:52:45	Bright	47.500	36	50Alp UMa	1.8000	6300.0	95	40451	No
9	GOM_TRA_1PNPDE20091125_005423_000000482084_00317_40451_4437.N1	25-NOV-2009 00:54:23	Bright	47.500	82	48Bet UMa	2.3650	10600.	95	40451	No
10	GOM_TRA_1PNPDE20091125_005556_000000372084_00317_40451_4438.N1	25-NOV-2009 00:55:56	Bright	36.500	55	79Zet UMa	2.0600	10200.	73	40451	No
11	GOM_TRA_1PNPDE20091125_010058_000000382084_00317_40451_4439.N1	25-NOV-2009 01:00:58	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	40451	No
12	GOM_TRA_1PNPDE20091125_010947_000000492084_00317_40451_4440.N1	25-NOV-2009 01:09:47	Bright	48.500	62	94Bet Leo	2.1360	9700.0	97	40451	No
13	GOM_TRA_1PNPDE20091125_011312_000000572084_00317_40451_4441.N1	25-NOV-2009 01:13:12	Bright	56.500	121	29Gam Vir	2.7400	7200.0	113	40451	No
14	GOM_TRA_1PNPDE20091125_011835_000000442084_00317_40451_4430.N1	25-NOV-2009 01:18:35	Twilight	43.500	100	4Gam Crv	2.5800	13100.	87	40451	No
15	GOM_TRA_1PNPDE20091125_012009_000000462084_00317_40451_4431.N1	25-NOV-2009 01:20:09	Twilight	45.500	171	2Eps Crv	3.0010	4250.0	91	40451	No
16	GOM_TRA_1PNPDE20091125_013624_000000442084_00318_40452_4432.N1	25-NOV-2009 01:36:24	Dark	44.000	41	Eps Car	1.8600	4100.0	88	40452	No
17	GOM_TRA_1PNPDE20091125_013800_000000492084_00318_40452_4433.N1	25-NOV-2009 01:38:00	Dark	49.000	34	Gam2Vel	1.7930	23000.	98	40452	No
18	GOM_TRA_1PNPDE20091125_013930_000000442084_00318_40452_4434.N1	25-NOV-2009 01:39:30	Dark	44.000	70	Zet Pup	2.2460	39000.	88	40452	No
19	GOM_TRA_1PNPDE20091125_014152_000000482084_00318_40452_4435.N1	25-NOV-2009 01:41:52	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	40452	No
20	GOM_TRA_1PNPDE20091125_014826_000000522084_00318_40452_4436.N1	25-NOV-2009 01:48:26	Dark	51.500	108	Alp Col	2.6520	15200.	103	40452	No
21	GOM_TRA_1PNPDE20091125_015643_000000482084_00318_40452_4437.N1	25-NOV-2009 01:56:43	Straylight	48.000	165	34Gam Eri	2.9500	3200.0	96	40452	No
22	GOM_TRA_1PNPDE20091125_020701_000000562084_00318_40452_4438.N1	25-NOV-2009 02:07:01	Bright	56.000	13	87Alp Tau	0.86700	3800.0	112	40452	No

23	GOM_TRA_1PNPDE20091125_021047_000000422084_00318_40452_4439.N1	25-NOV-2009 02:10:47	Bright	41.500	150	44Zet Per	2.8900	28000.	83	40452	No
24	GOM_TRA_1PNPDE20091125_021246_000000392084_00318_40452_4440.N1	25-NOV-2009 02:12:46	Bright	38.500	79	26Bet Per	2.3100	13100.	77	40452	No
25	GOM_TRA_1PNPDE20091125_021511_000000372084_00318_40452_4441.N1	25-NOV-2009 02:15:11	Bright	37.000	175	39Del Per	3.0100	19400.	74	40452	No
26	GOM_TRA_1PNPDE20091125_023320_000000452084_00318_40452_4440.N1	25-NOV-2009 02:33:20	Bright	44.500	36	50Alp UMa	1.8000	6300.0	89	40452	Yes
27	GOM_TRA_1PNPDE20091125_023459_000000442084_00318_40452_4441.N1	25-NOV-2009 02:34:59	Bright	44.000	82	48Bet UMa	2.3650	10600.	88	40452	No
28	GOM_TRA_1PNPDE20091125_023632_000000532084_00318_40452_4442.N1	25-NOV-2009 02:36:32	Bright	53.000	55	79Zet UMa	2.0600	10200.	106	40452	No
29	GOM_TRA_1PNPDE20091125_024134_000000382084_00318_40452_4443.N1	25-NOV-2009 02:41:34	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	40452	No
30	GOM_TRA_1PNPDE20091125_025023_000000702084_00318_40452_4444.N1	25-NOV-2009 02:50:23	Bright	70.000	62	94Bet Leo	2.1360	9700.0	140	40452	No
31	GOM_TRA_1PNPDE20091125_025348_000000582084_00318_40452_4445.N1	25-NOV-2009 02:53:48	Bright	58.000	121	29Gam Vir	2.7400	7200.0	116	40452	No
32	GOM_TRA_1PNPDE20091125_025911_000000462084_00318_40452_4446.N1	25-NOV-2009 02:59:11	Twilight	45.500	100	4Gam Crv	2.5800	13100.	91	40452	No
33	GOM_TRA_1PNPDE20091125_030045_000000482084_00318_40452_4447.N1	25-NOV-2009 03:00:45	Twilight	47.500	171	2Eps Crv	3.0010	4250.0	95	40452	No
34	GOM_TRA_1PNPDE20091125_031013_000000432084_00319_40453_4448.N1	25-NOV-2009 03:10:13	Dark	42.500	113	Mu Vel	2.6920	5000.0	85	40453	No
35	GOM_TRA_1PNPDE20091125_031701_000000452084_00319_40453_4449.N1	25-NOV-2009 03:17:01	Dark	44.500	41	Eps Car	1.8600	4100.0	89	40453	No
36	GOM_TRA_1PNPDE20091125_031837_000000472084_00319_40453_4450.N1	25-NOV-2009 03:18:37	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40453	No
37	GOM_TRA_1PNPDE20091125_032007_000000442084_00319_40453_4451.N1	25-NOV-2009 03:20:07	Dark	44.000	70	Zet Pup	2.2460	39000.	88	40453	No
38	GOM_TRA_1PNPDE20091125_032229_000000482084_00319_40453_4452.N1	25-NOV-2009 03:22:29	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	40453	No
39	GOM_TRA_1PNPDE20091125_032903_000000482084_00319_40453_4453.N1	25-NOV-2009 03:29:03	Dark	48.000	108	Alp Col	2.6520	15200.	96	40453	No
40	GOM_TRA_1PNPDE20091125_033719_000000482084_00319_40453_4454.N1	25-NOV-2009 03:37:19	Straylight	47.500	165	34Gam Eri	2.9500	3200.0	95	40453	No
41	GOM_TRA_1PNPDE20091125_034736_000000572084_00319_40453_4455.N1	25-NOV-2009 03:47:36	Bright	57.000	13	87Alp Tau	0.86700	3800.0	114	40453	No
42	GOM_TRA_1PNPDE20091125_035123_000000412084_00319_40453_4456.N1	25-NOV-2009 03:51:23	Bright	41.000	150	44Zet Per	2.8900	28000.	82	40453	No
43	GOM_TRA_1PNPDE20091125_035322_000000382084_00319_40453_4457.N1	25-NOV-2009 03:53:22	Bright	37.500	79	26Bet Per	2.3100	13100.	75	40453	No
44	GOM_TRA_1PNPDE20091125_035546_000000382084_00319_40453_4458.N1	25-NOV-2009 03:55:46	Bright	38.000	175	39Del Per	3.0100	19400.	76	40453	No
45	GOM_TRA_1PNPDE20091125_041357_000000462084_00319_40453_4447.N1	25-NOV-2009 04:13:57	Bright	46.000	36	50Alp UMa	1.8000	6300.0	92	40453	No
46	GOM_TRA_1PNPDE20091125_041534_000000472084_00319_40453_4448.N1	25-NOV-2009 04:15:34	Bright	46.500	82	48Bet UMa	2.3650	10600.	93	40453	No
47	GOM_TRA_1PNPDE20091125_041708_000000402084_00319_40453_4449.N1	25-NOV-2009 04:17:08	Bright	39.500	55	79Zet UMa	2.0600	10200.	79	40453	No
48	GOM_TRA_1PNPDE20091125_042210_000000352084_00319_40453_4450.N1	25-NOV-2009 04:22:10	Bright	34.500	152	12Alp2CVn	2.8900	11000.	69	40453	No
49	GOM_TRA_1PNPDE20091125_043100_000000702084_00319_40453_4451.N1	25-NOV-2009 04:31:00	Bright	70.000	62	94Bet Leo	2.1360	9700.0	140	40453	No
50	GOM_TRA_1PNPDE20091125_043425_000000582084_00319_40453_4452.N1	25-NOV-2009 04:34:25	Bright	58.000	121	29Gam Vir	2.7400	7200.0	116	40453	No
51	GOM_TRA_1PNPDE20091125_043948_000000452084_00319_40453_4453.N1	25-NOV-2009 04:39:48	Twilight	45.000	100	4Gam Crv	2.5800	13100.	90	40453	No
52	GOM_TRA_1PNPDE20091125_044122_000000442084_00319_40453_4454.N1	25-NOV-2009 04:41:22	Twilight	44.000	171	2Eps Crv	3.0010	4250.0	88	40453	No
53	GOM_TRA_1PNPDE20091125_045049_000000432084_00320_40454_4455.N1	25-NOV-2009 04:50:49	Dark	42.500	113	Mu Vel	2.6920	5000.0	85	40454	No
54	GOM_TRA_1PNPDE20091125_045737_000000472084_00320_40454_4456.N1	25-NOV-2009 04:57:37	Dark	47.000	41	Eps Car	1.8600	4100.0	94	40454	No
55	GOM_TRA_1PNPDE20091125_045914_000000492084_00320_40454_4457.N1	25-NOV-2009 04:59:14	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	40454	No
56	GOM_TRA_1PNPDE20091125_050044_000000442084_00320_40454_4458.N1	25-NOV-2009 05:00:44	Dark	44.000	70	Zet Pup	2.2460	39000.	88	40454	No
57	GOM_TRA_1PNPDE20091125_050305_000000502084_00320_40454_4459.N1	25-NOV-2009 05:03:05	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	40454	No
58	GOM_TRA_1PNPDE20091125_050939_000000512084_00320_40454_4460.N1	25-NOV-2009 05:09:39	Dark	50.500	108	Alp Col	2.6520	15200.	101	40454	No
59	GOM_TRA_1PNPDE20091125_051755_000000492084_00320_40454_4461.N1	25-NOV-2009 05:17:55	Straylight	48.500	165	34Gam Eri	2.9500	3200.0	97	40454	No
60	GOM_TRA_1PNPDE20091125_052811_000000512084_00320_40454_4462.N1	25-NOV-2009 05:28:11	Bright	51.000	13	87Alp Tau	0.86700	3800.0	102	40454	No
61	GOM_TRA_1PNPDE20091125_053158_000000402084_00320_40454_4463.N1	25-NOV-2009 05:31:58	Bright	40.000	150	44Zet Per	2.8900	28000.	80	40454	No
62	GOM_TRA_1PNPDE20091125_053357_000000382084_00320_40454_4464.N1	25-NOV-2009 05:33:57	Bright	38.000	79	26Bet Per	2.3100	13100.	76	40454	No
63	GOM_TRA_1PNPDE20091125_053622_000000382084_00320_40454_4465.N1	25-NOV-2009 05:36:22	Bright	38.000	175	39Del Per	3.0100	19400.	76	40454	No
64	GOM_TRA_1PNPDE20091125_055432_000000472084_00320_40454_4454.N1	25-NOV-2009 05:54:32	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	40454	No
65	GOM_TRA_1PNPDE20091125_055610_000000482084_00320_40454_4455.N1	25-NOV-2009 05:56:10	Bright	47.500	82	48Bet UMa	2.3650	10600.	95	40454	No
66	GOM_TRA_1PNPDE20091125_055744_000000382084_00320_40454_4456.N1	25-NOV-2009 05:57:44	Bright	38.000	55	79Zet UMa	2.0600	10200.	76	40454	No
67	GOM_TRA_1PNPDE20091125_060246_000000492084_00320_40454_4457.N1	25-NOV-2009 06:02:46	Bright	49.000	152	12Alp2CVn	2.8900	11000.	98	40454	No
68	GOM_TRA_1PNPDE20091125_061136_000000502084_00320_40454_4458.N1	25-NOV-2009 06:11:36	Bright	50.000	62	94Bet Leo	2.1360	9700.0	100	40454	No
69	GOM_TRA_1PNPDE20091125_061501_000000402084_00320_40454_4459.N1	25-NOV-2009 06:15:01	Bright	40.000	121	29Gam Vir	2.7400	7200.0	80	40454	No
70	GOM_TRA_1PNPDE20091125_062025_000000462084_00320_40454_4460.N1	25-NOV-2009 06:20:25	Twilight	46.000	100	4Gam Crv	2.5800	13100.	92	40454	No
71	GOM_TRA_1PNPDE20091125_062159_000000482084_00320_40454_4461.N1	25-NOV-2009 06:21:59	Twilight	48.000	171	2Eps Crv	3.0010	4250.0	96	40454	No
72	GOM_TRA_1PNPDE20091125_063126_000000422084_00321_40455_4462.N1	25-NOV-2009 06:31:26	Dark	42.000	113	Mu Vel	2.6920	5000.0	84	40455	No
73	GOM_TRA_1PNPDE20091125_063814_000000442084_00321_40455_4463.N1	25-NOV-2009 06:38:14	Dark	44.000	41	Eps Car	1.8600	4100.0	88	40455	No
74	GOM_TRA_1PNPDE20091125_063951_000000482084_00321_40455_4464.N1	25-NOV-2009 06:39:51	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	40455	No
75	GOM_TRA_1PNPDE20091125_064121_000000442084_00321_40455_4465.N1	25-NOV-2009 06:41:21	Dark	44.000	70	Zet Pup	2.2460	39000.	88	40455	No
76	GOM_TRA_1PNPDE20091125_064342_000000522084_00321_40455_4466.N1	25-NOV-2009 06:43:42	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	40455	No
77	GOM_TRA_1PNPDE20091125_065016_000000482084_00321_40455_4467.N1	25-NOV-2009 06:50:16	Dark	48.000	108	Alp Col	2.6520	15200.	96	40455	No
78	GOM_TRA_1PNPDE20091125_065831_000000472084_00321_40455_4468.N1	25-NOV-2009 06:58:31	Straylight	47.000	165	34Gam Eri	2.9500	3200.0	94	40455	No
79	GOM_TRA_1PNPDE20091125_070847_000000532084_00321_40455_4469.N1	25-NOV-2009 07:08:47	Bright	53.000	13	87Alp Tau	0.86700	3800.0	106	40455	No
80	GOM_TRA_1PNPDE20091125_071234_000000392084_00321_40455_4470.N1	25-NOV-2009 07:12:34	Bright	39.000	150	44Zet Per	2.8900	28000.	78	40455	No
81	GOM_TRA_1PNPDE20091125_071433_000000372084_00321_40455_4471.N1	25-NOV-2009 07:14:33	Bright	37.000	79	26Bet Per	2.3100	13100.	74	40455	No

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



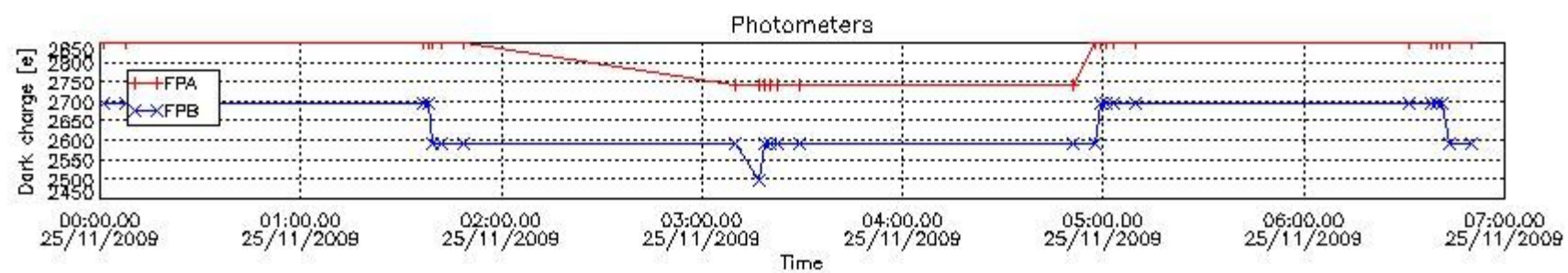
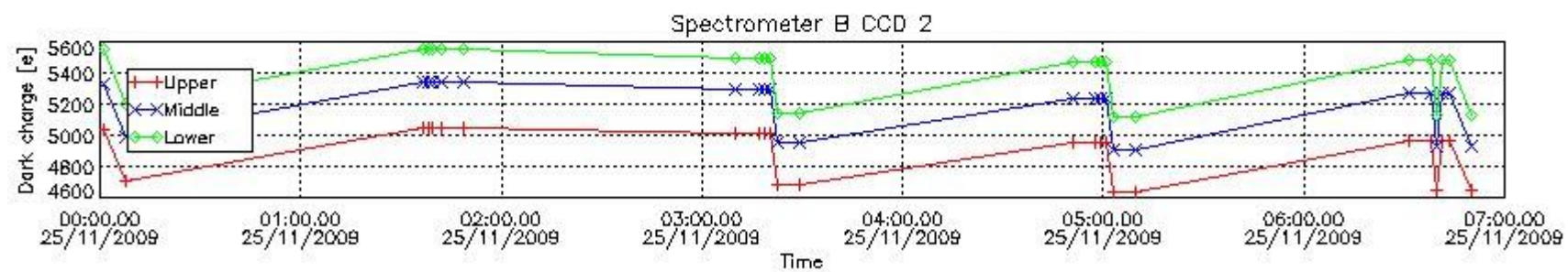
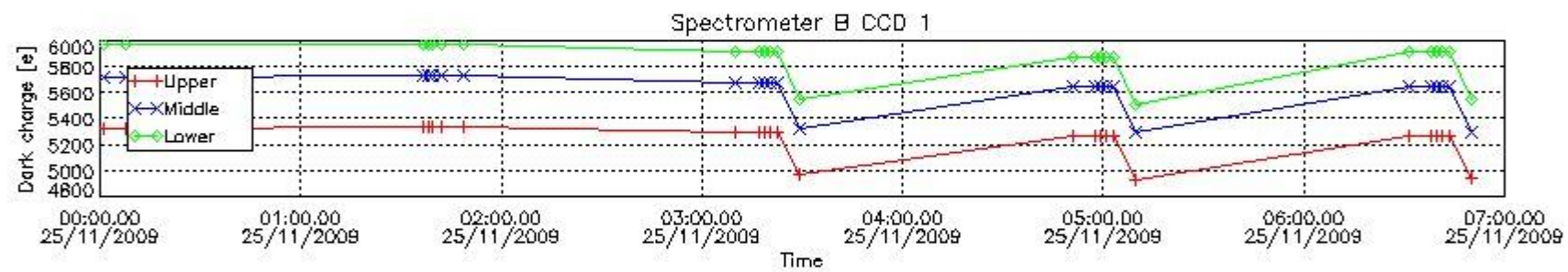
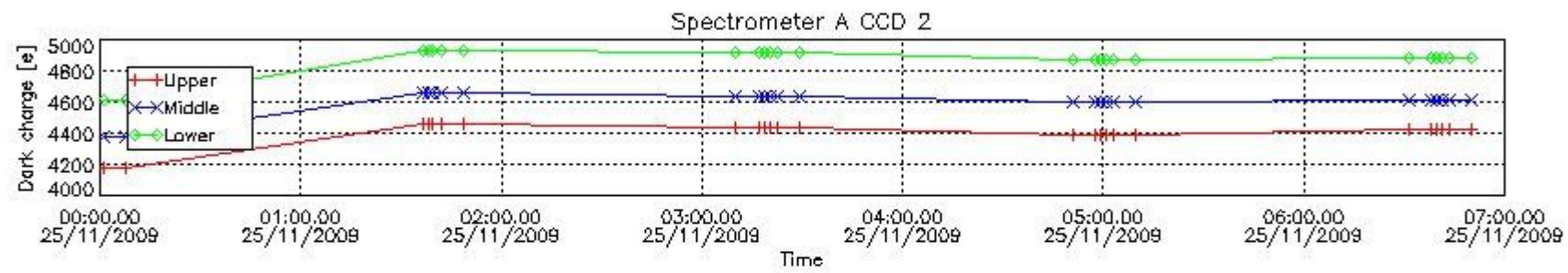
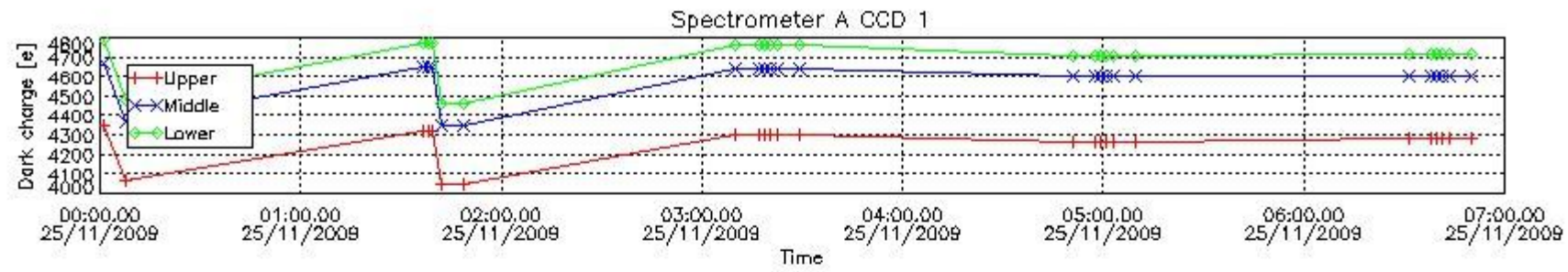
### 4. Overview of dark signal processing per product

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

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

#### 4.1 All products used the DSA observation for the DC computation

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



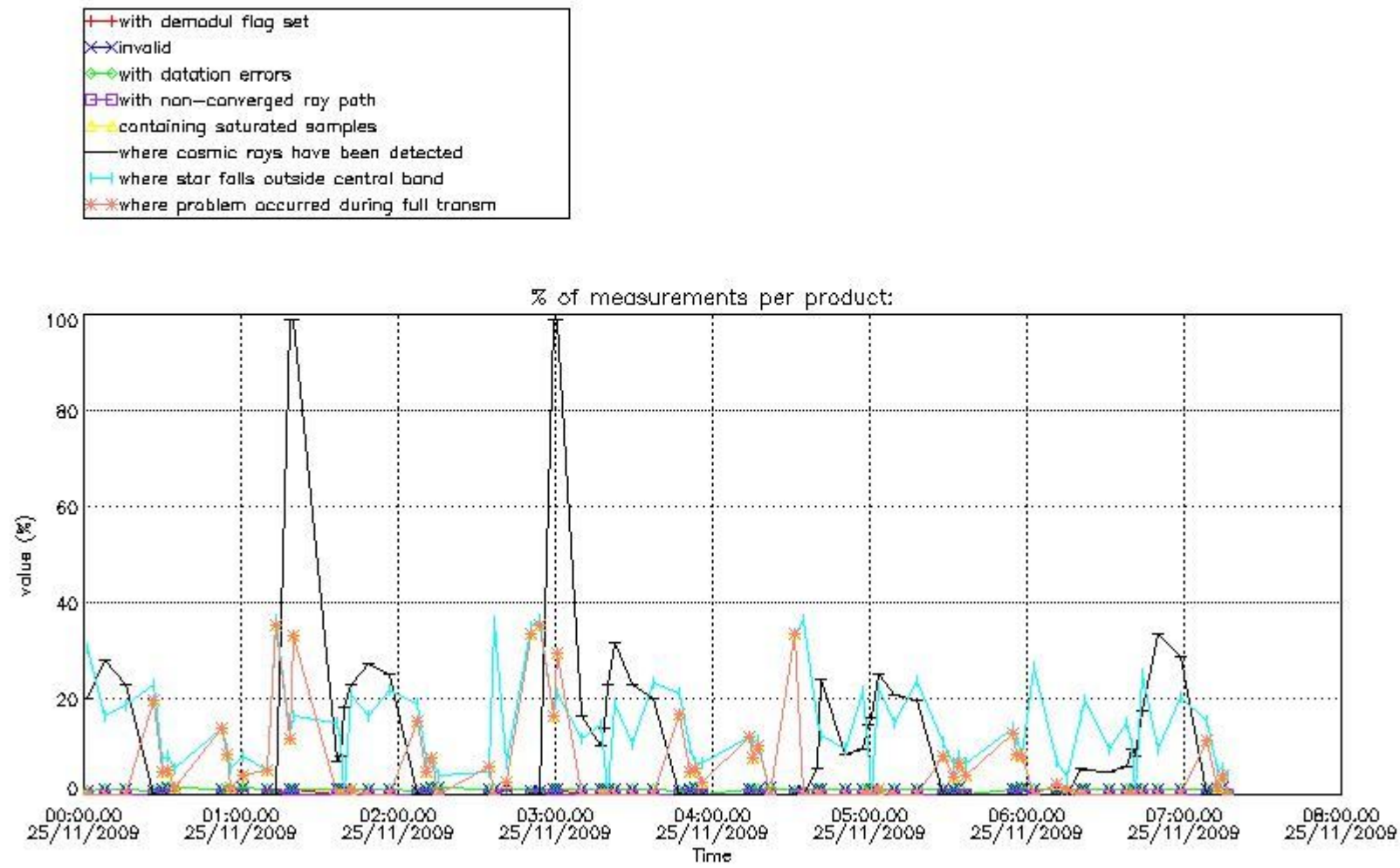
## 5. Demodulation flag and quality information monitoring

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

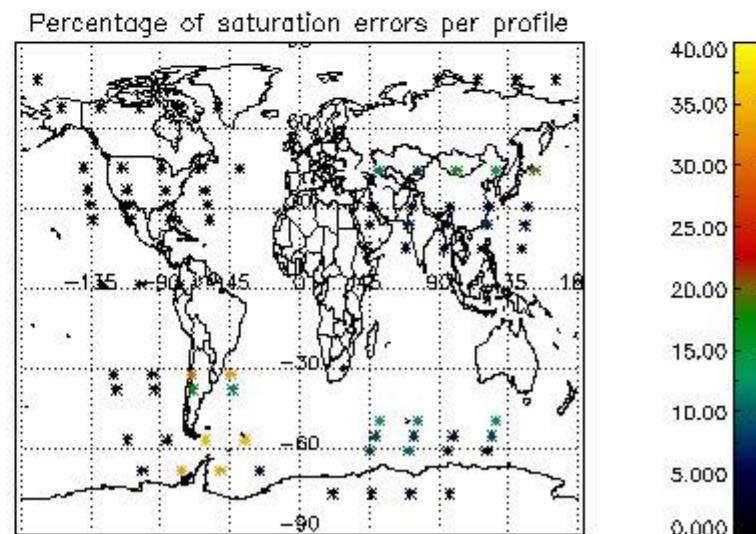
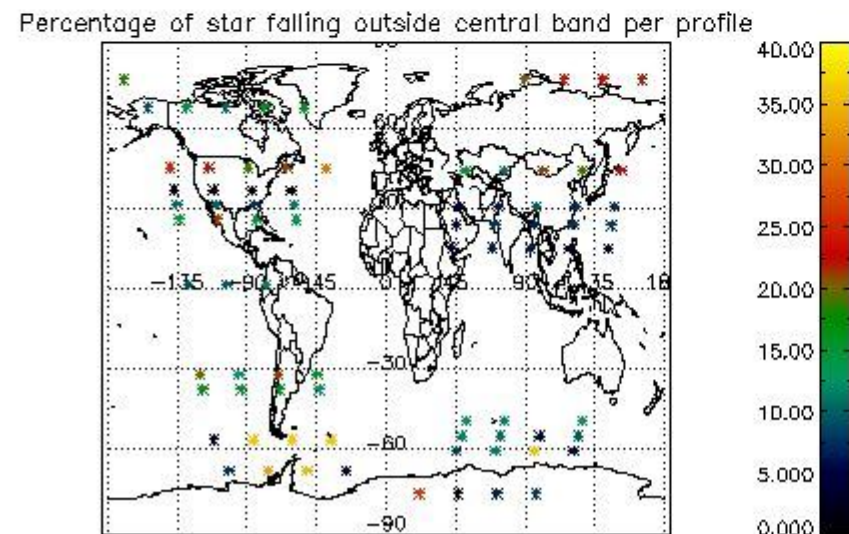
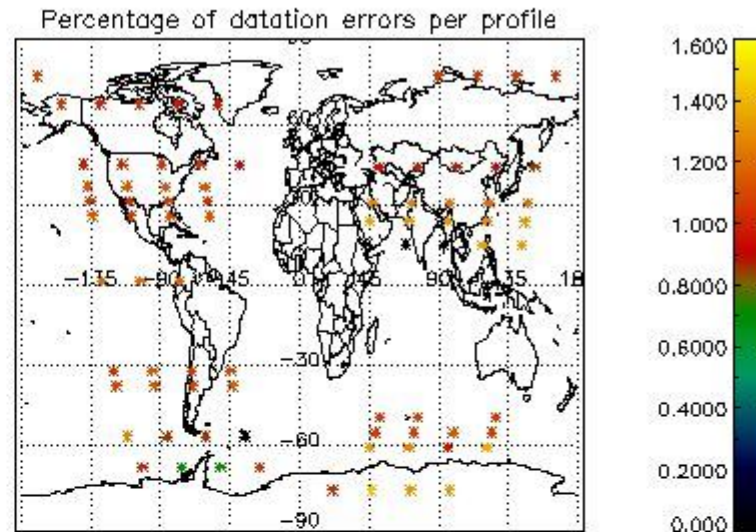
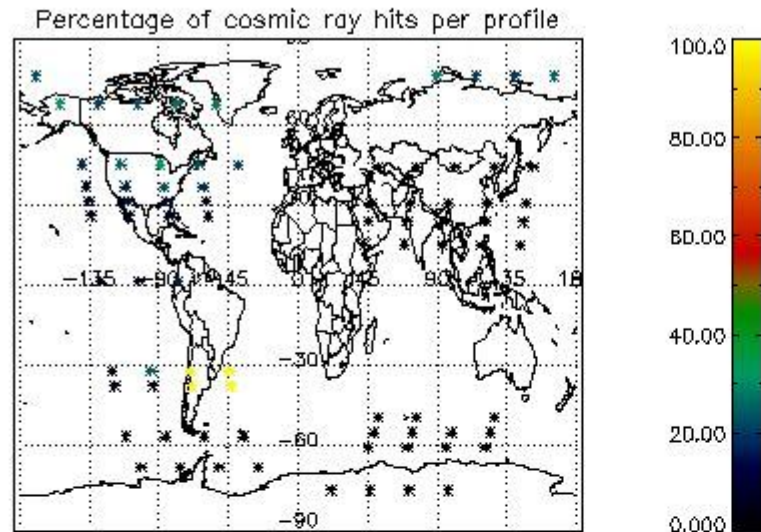
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	37.0370 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



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

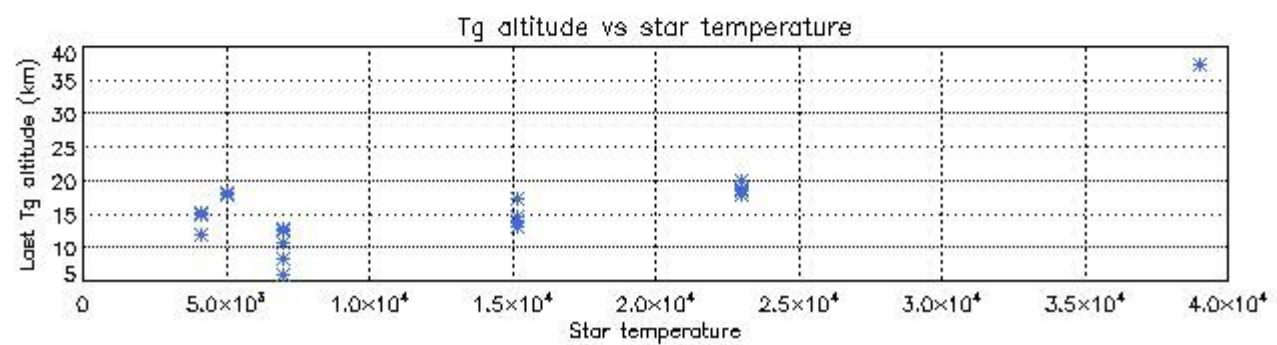
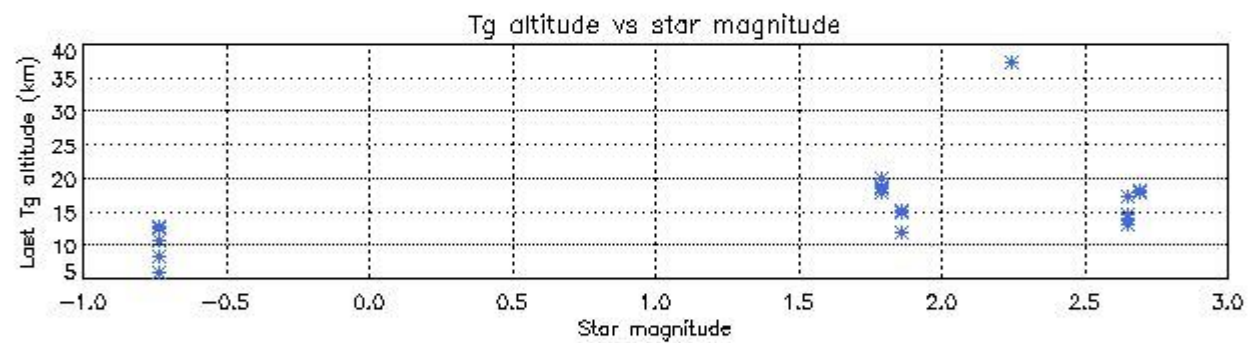
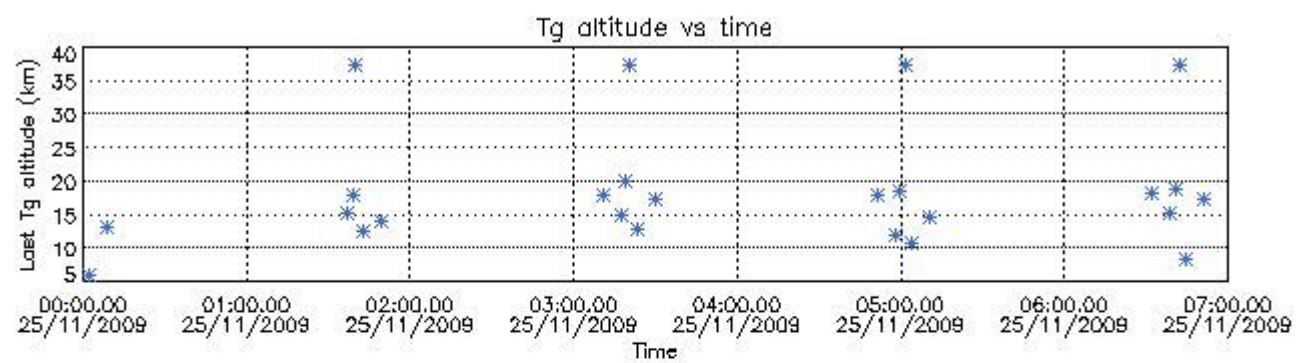
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.449	16.790	13.231
St. deviation:	8.9950	6.6123	1.5435
Maximum:	37.200	29.844	15.326
Minimum:	5.7719	3.5908	11.994
Number of data:	25.000	43.000	4.0000

### 6.2 Plot for DARK limb products

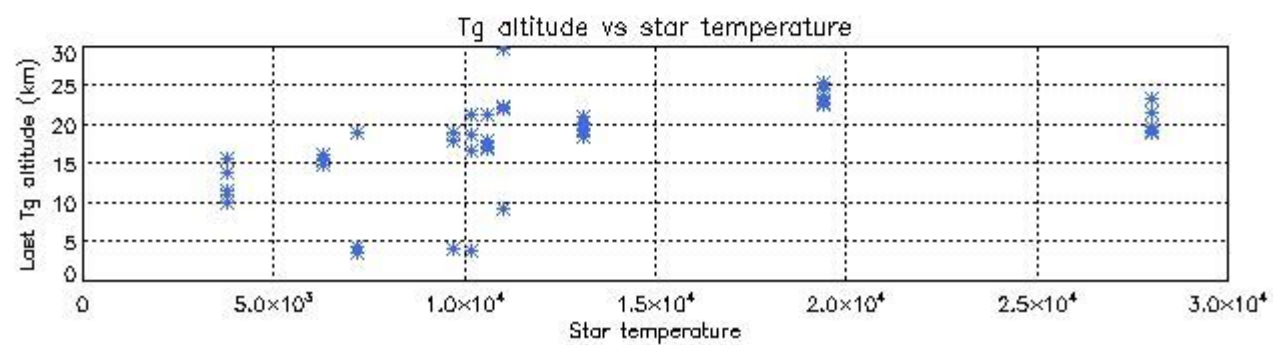
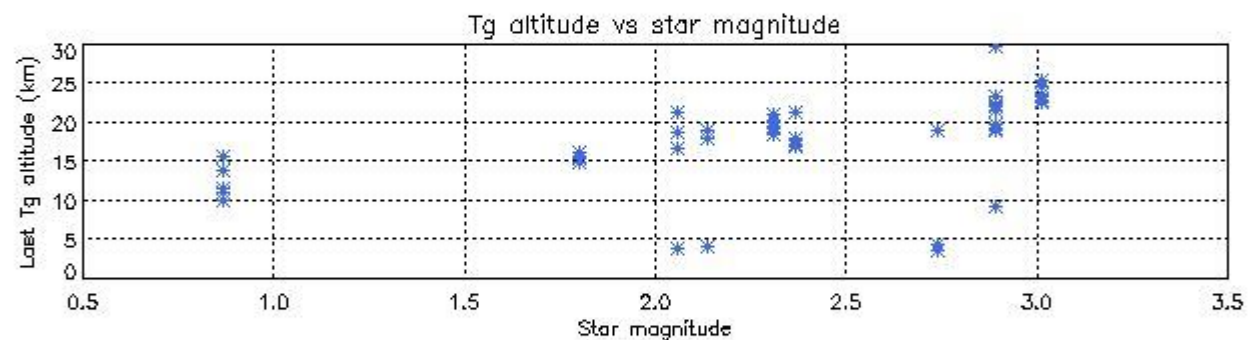
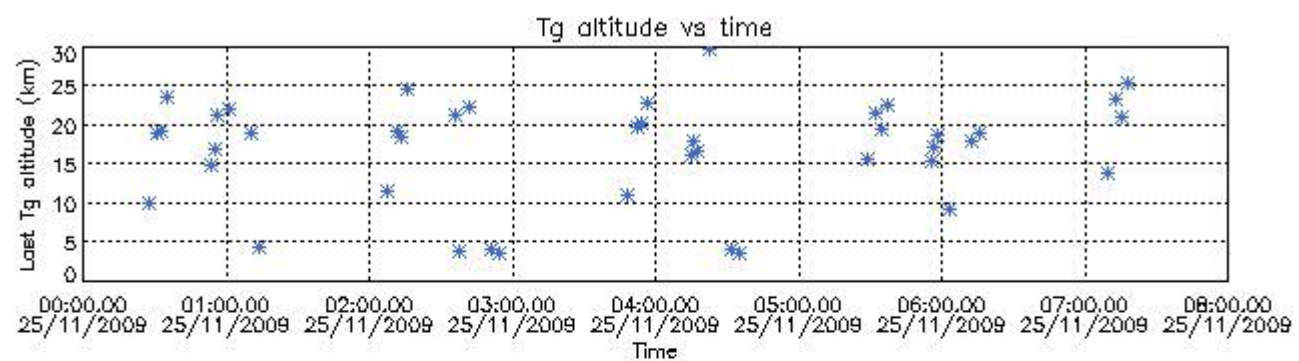


Tangent altitude at which the star is lost



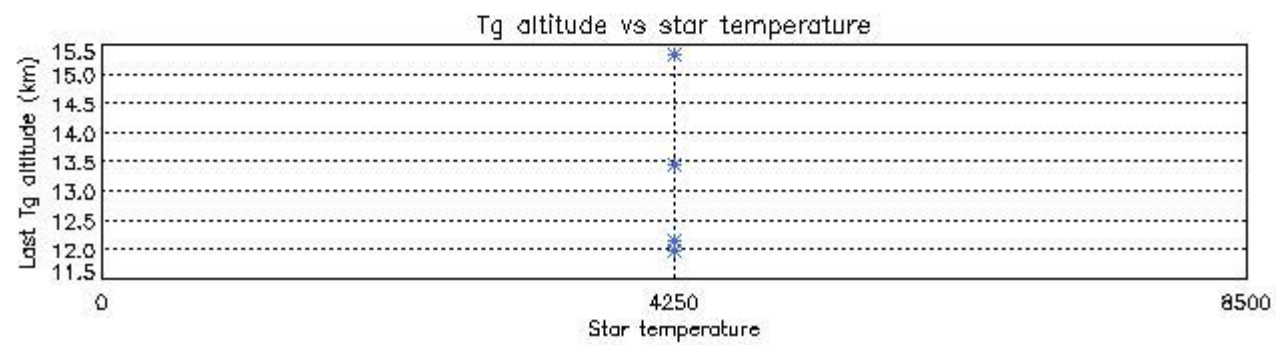
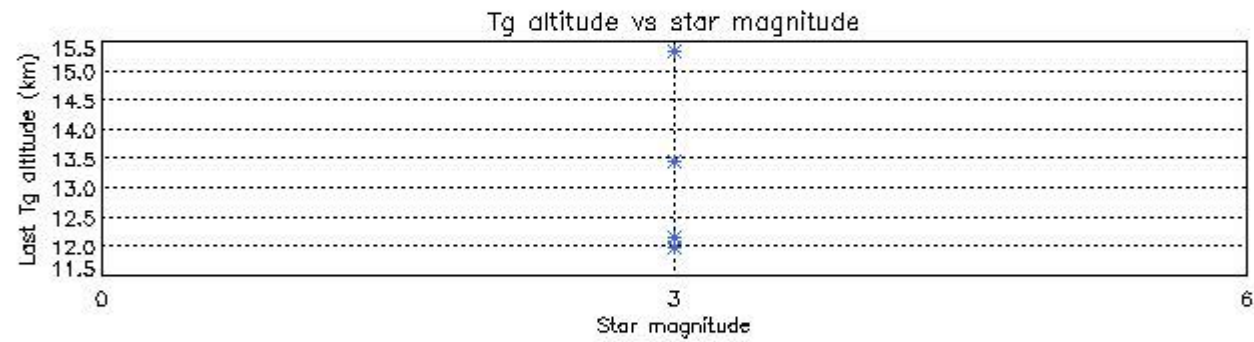
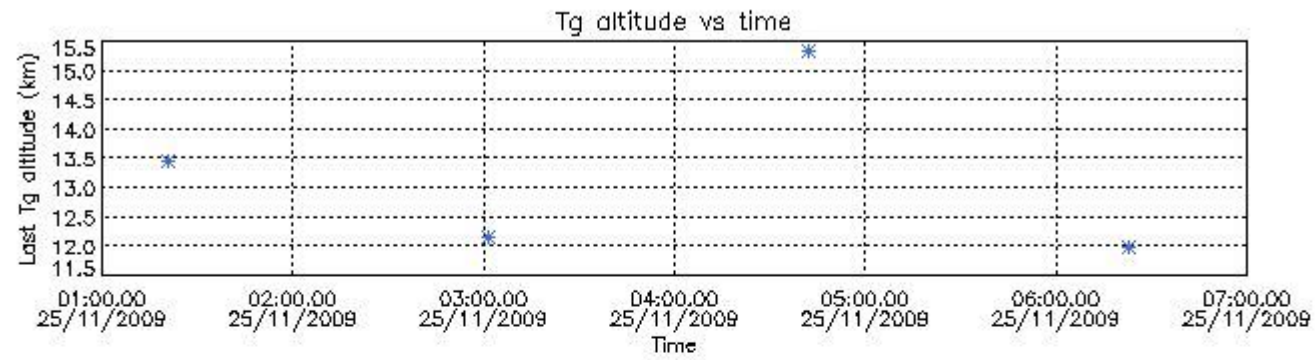
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

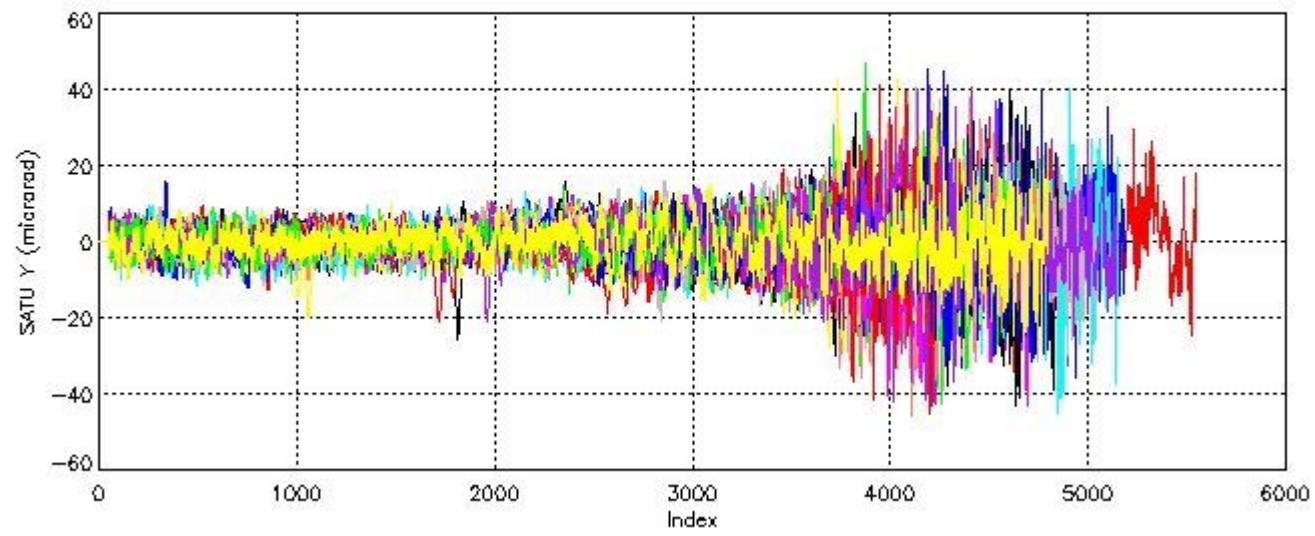
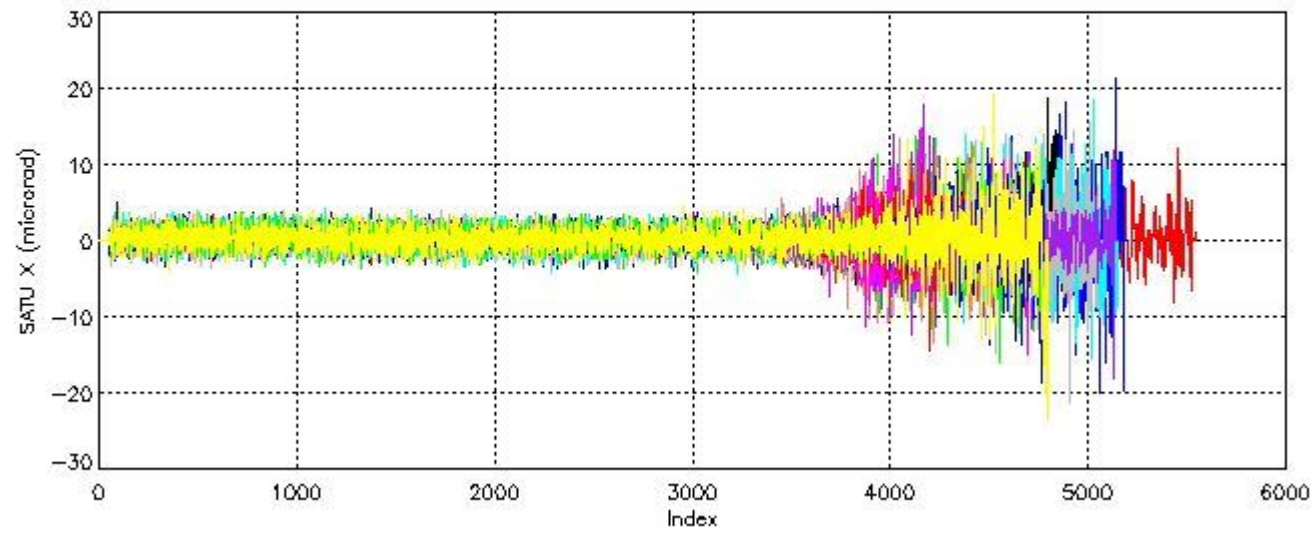


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.25977	-0.17122	0.20266	-0.40571
St. deviation:	0.62188	2.8399	1.0262	3.2079
Maximum:	5.0000	15.600	6.4000	13.500
Minimum:	-3.9000	-12.600	-6.7000	-23.400

Number of data:	26750.	26750.	41500.	41500.
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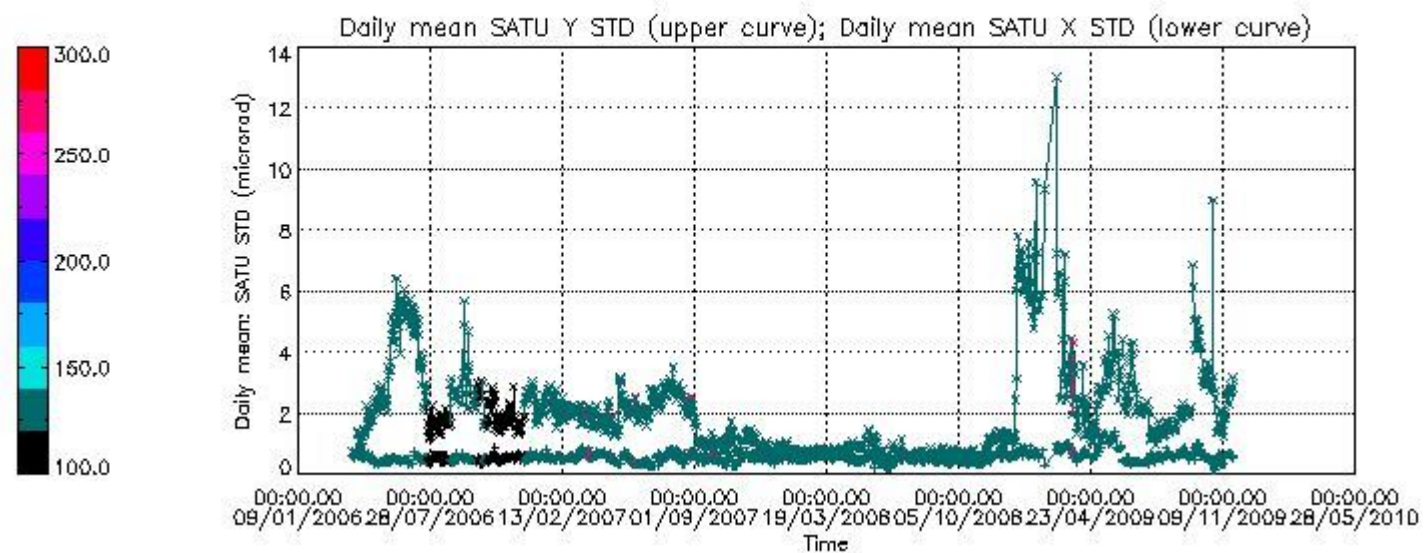
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

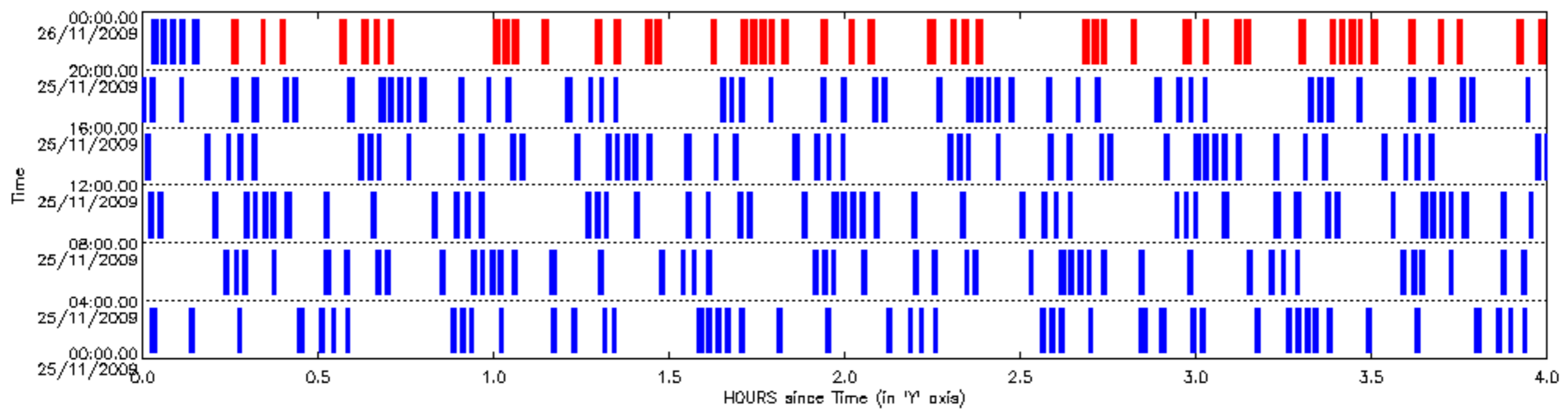
Lower curve: STD of SATU X axis

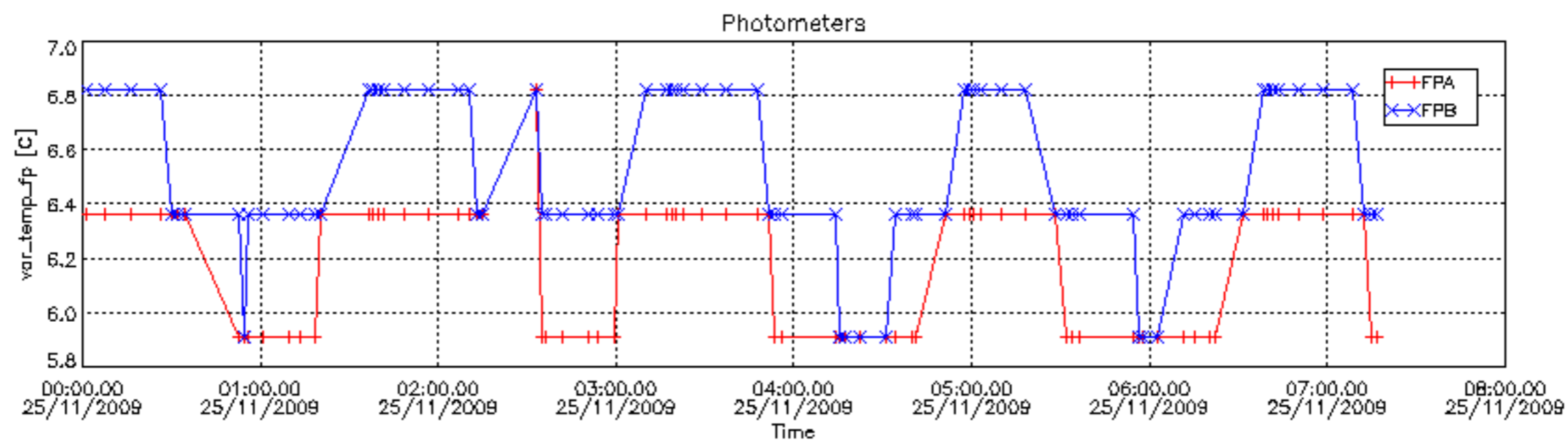
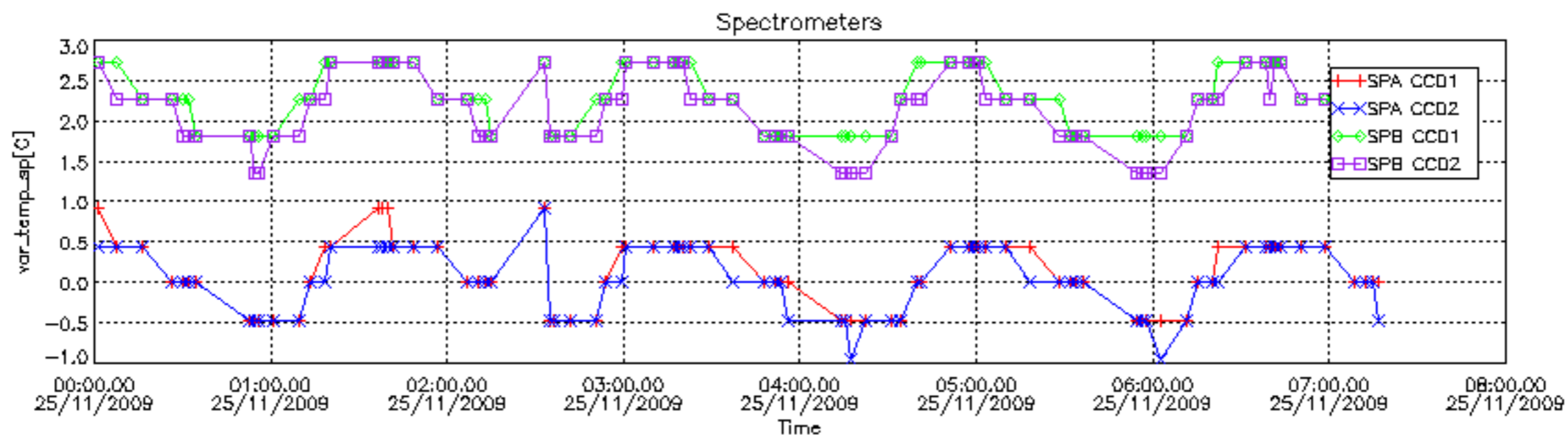


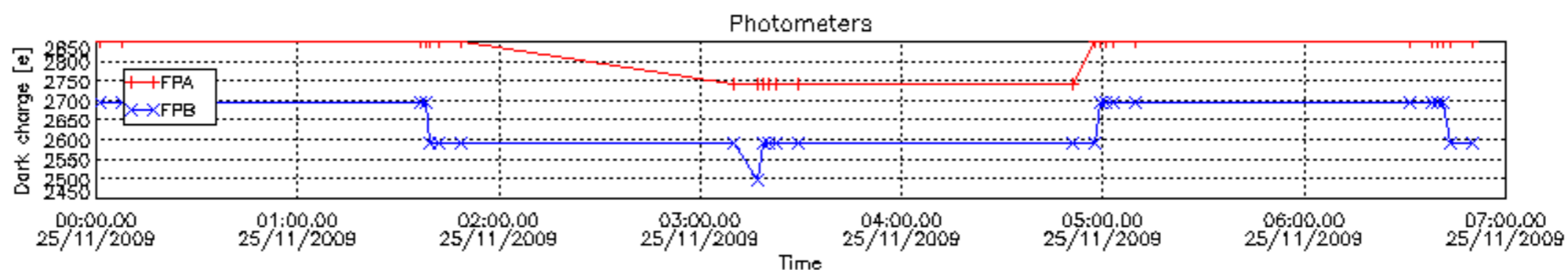
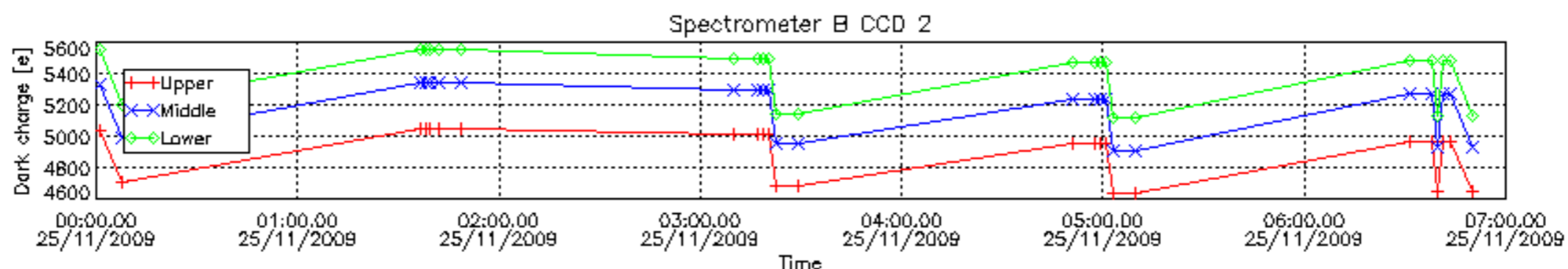
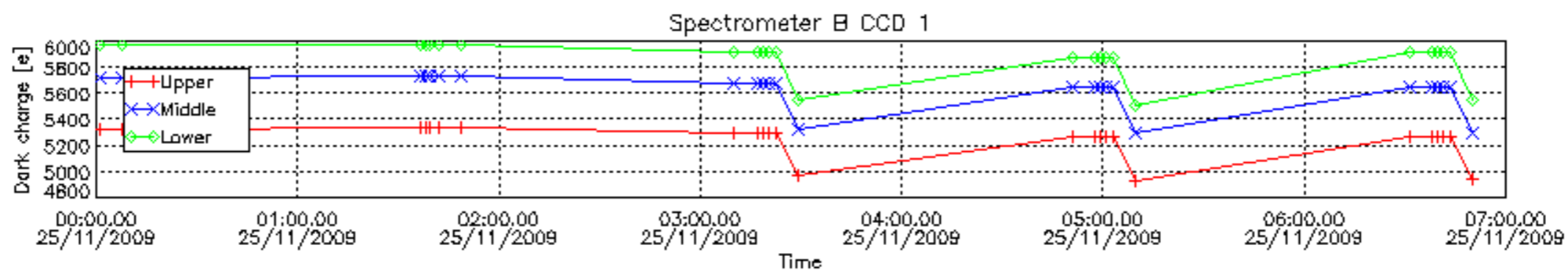
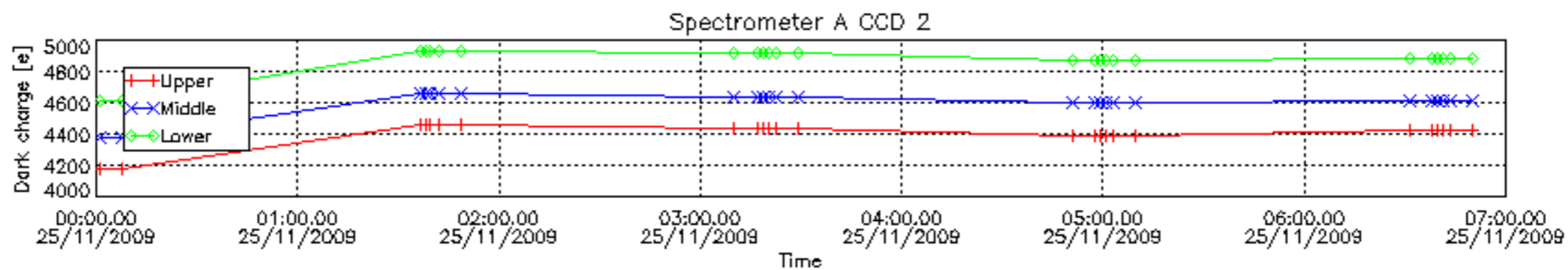
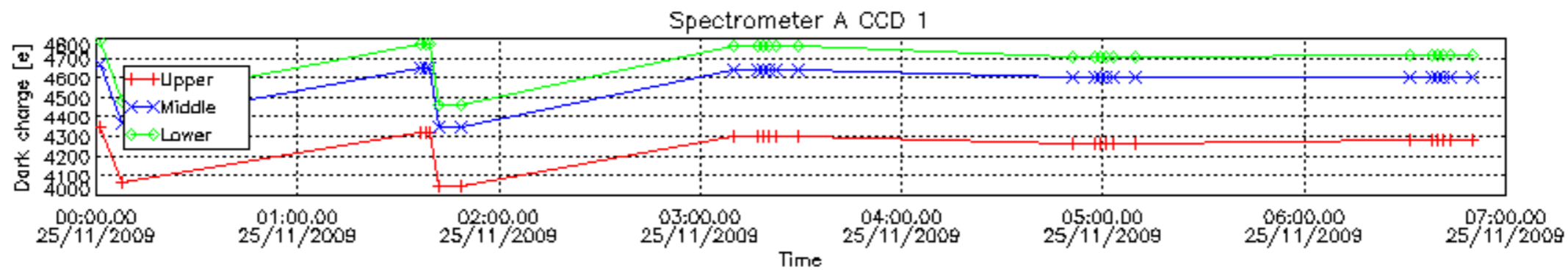
### 8. Auxiliary Data Files used for the production reported in section 2.4

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

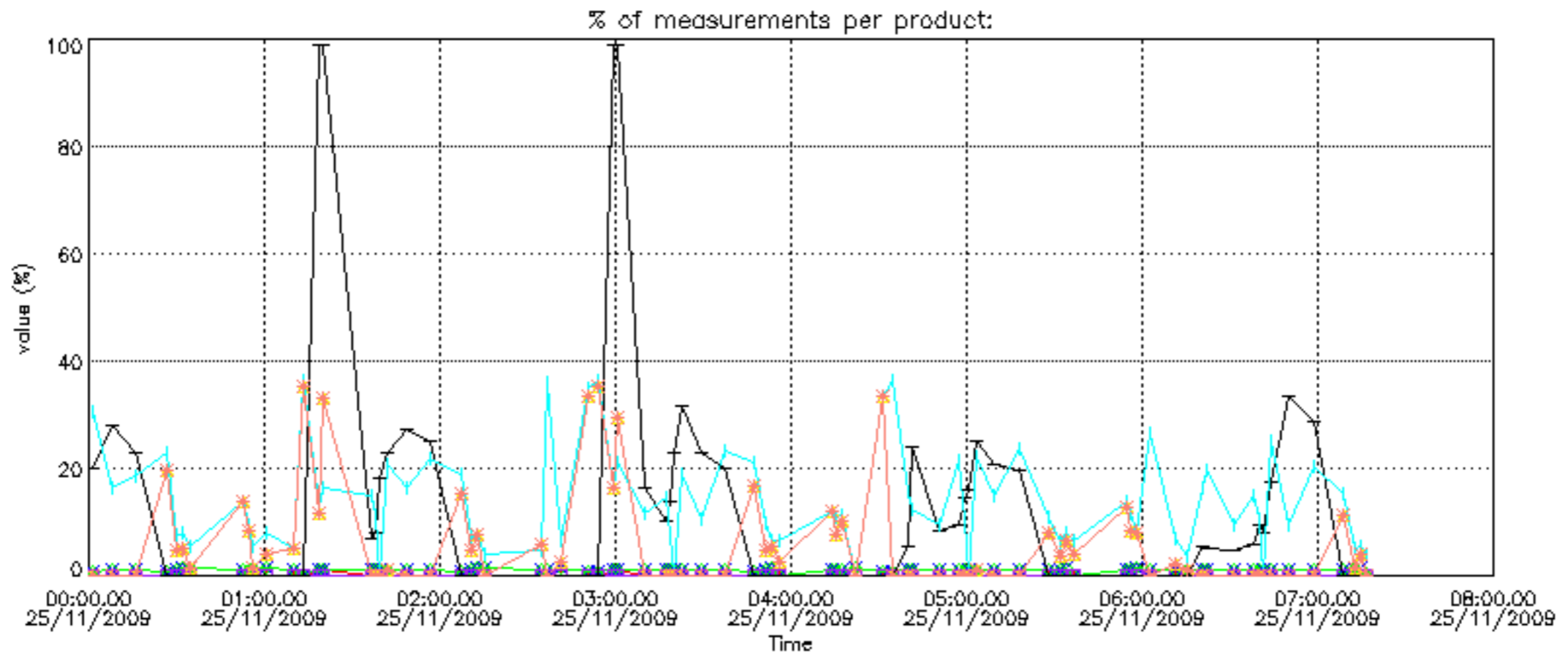
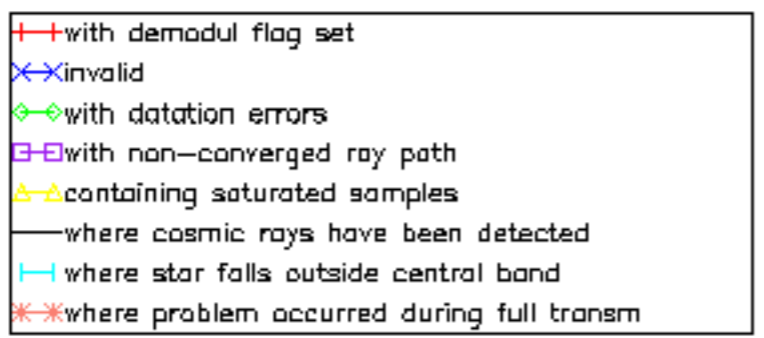
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	25-NOV-2009 00:01:16
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091116_112409_20091114_000000_20100101_000000	1	25-NOV-2009 00:01:16
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	25-NOV-2009 00:01:16
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-NOV-2009 00:01:16
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	25-NOV-2009 00:01:16
ECMWF_FILE	AUX_ECF_AXNECM20091124_064111_20091124_210000_20091125_090000	1	25-NOV-2009 00:01:16
ECMWF_FILE	AUX_ECF_AXNECM20091124_182110_20091125_030000_20091125_150000	45	25-NOV-2009 04:13:57
ECMWF_FILE	AUX_ECA_AXNECM20091125_062111_20091124_210000_20091125_090000	64	25-NOV-2009 05:54:32
OPTIONAL_ECMWF_FILE	MISSING	1	25-NOV-2009 00:01:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091124_233453_000057382084_00316_40450_9235.N1	1	25-NOV-2009 00:01:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091125_011550_000041442084_00317_40451_9236.N1	14	25-NOV-2009 01:18:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091125_023013_000054192084_00318_40452_9237.N1	26	25-NOV-2009 02:33:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091125_040552_000057382084_00319_40453_9238.N1	45	25-NOV-2009 04:13:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091125_054649_000060572084_00320_40454_9239.N1	64	25-NOV-2009 05:54:32



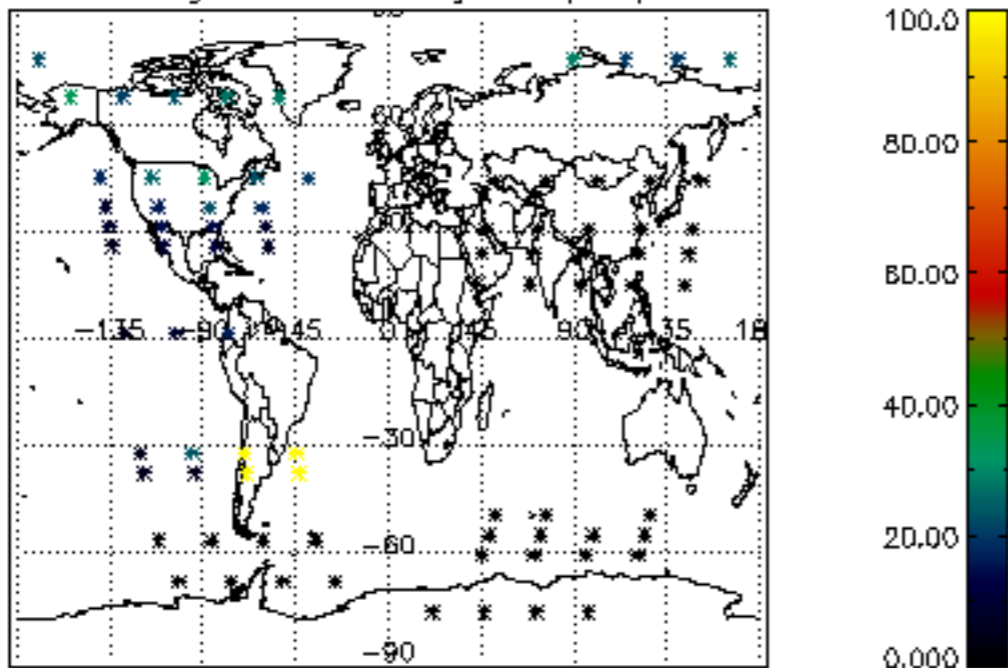




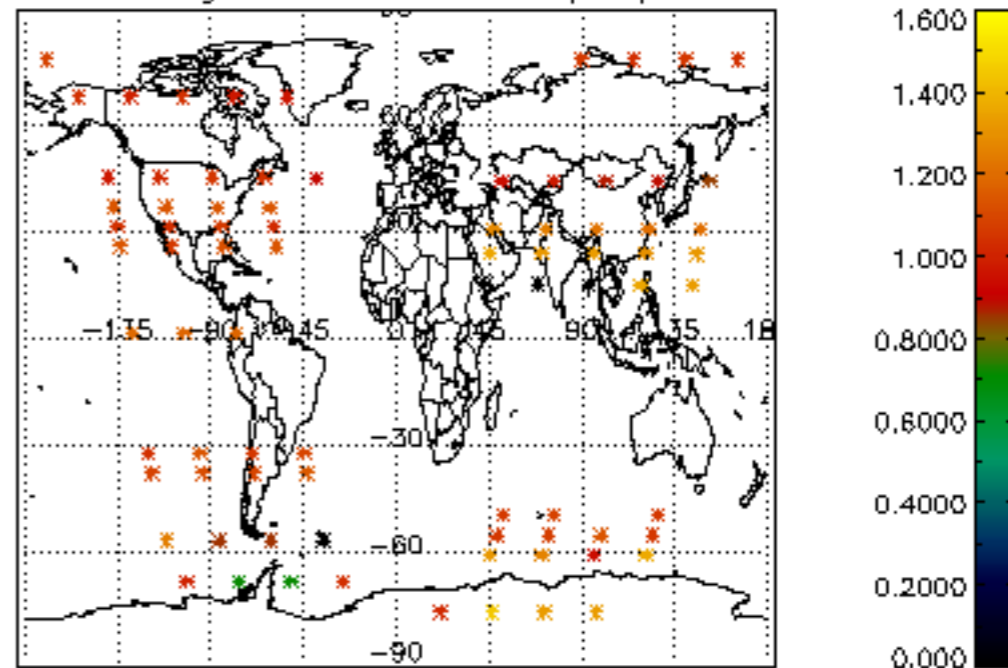




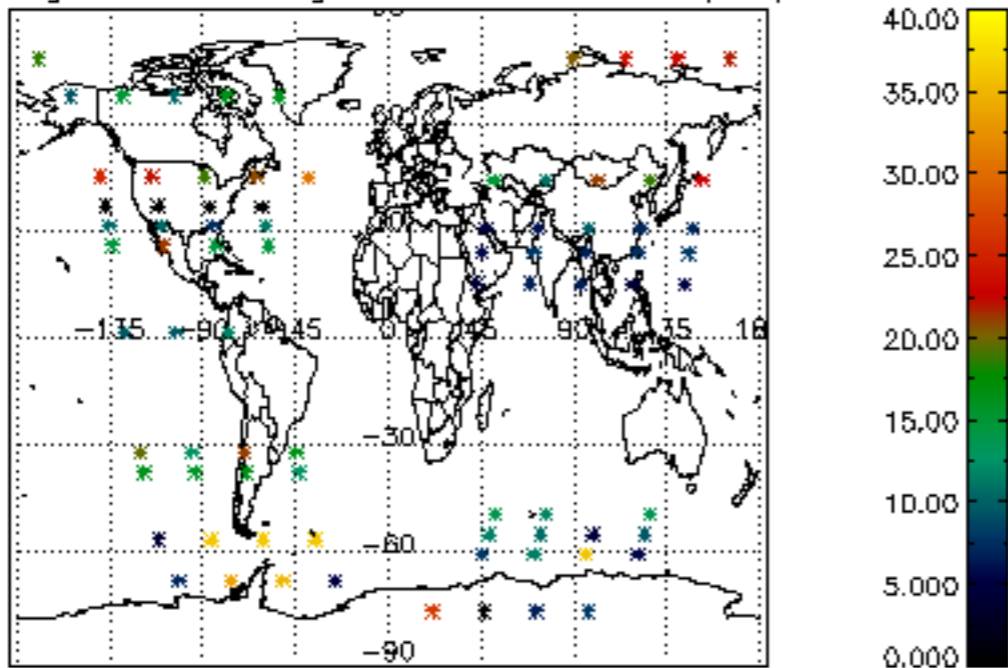
Percentage of cosmic ray hits per profile



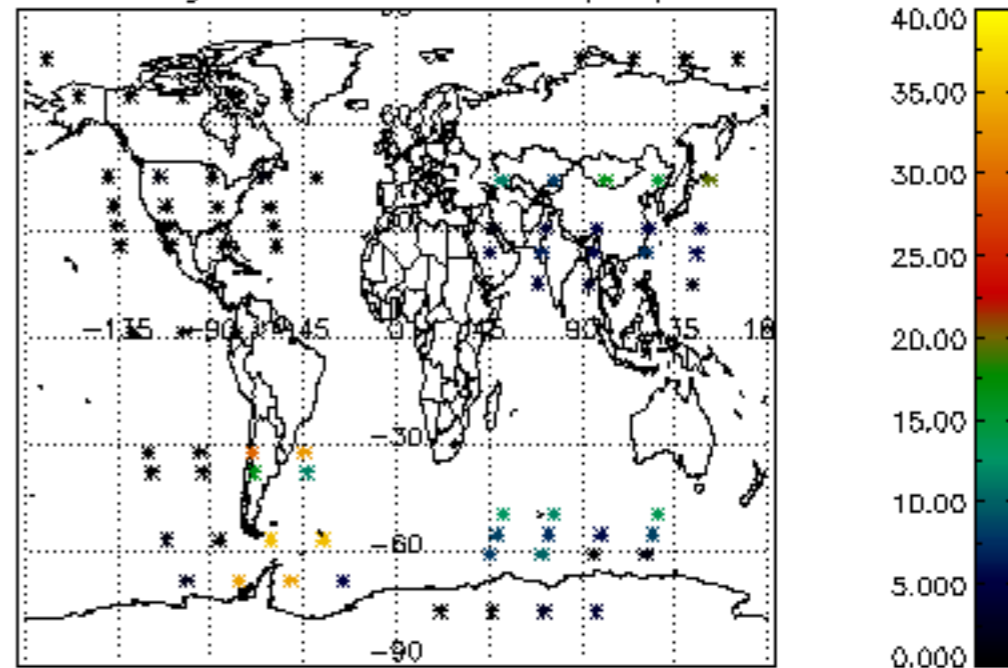
Percentage of datation errors per profile



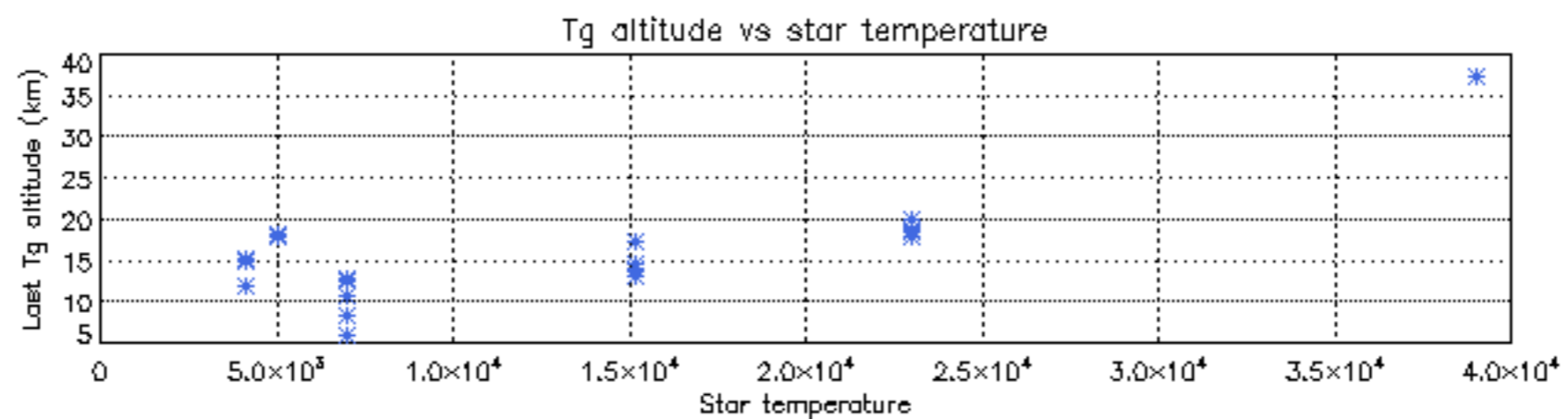
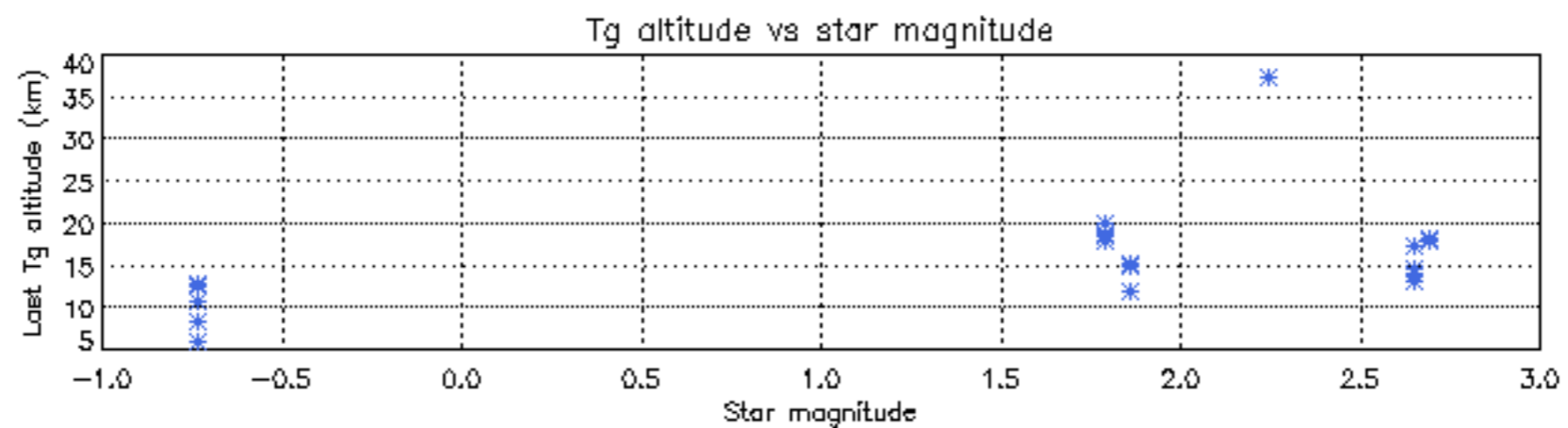
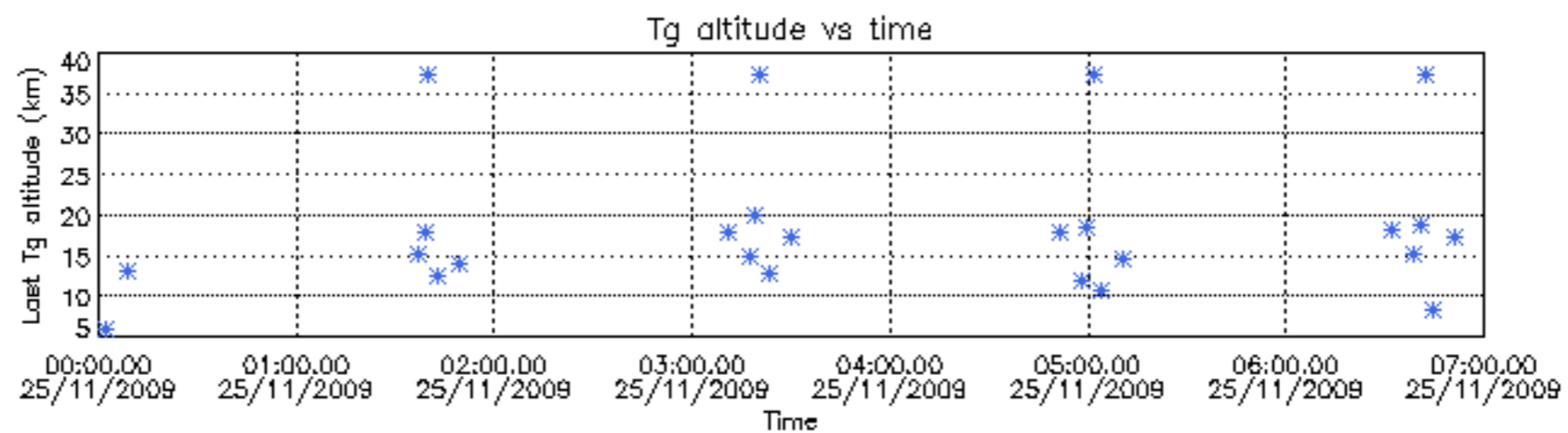
Percentage of star falling outside central band per profile



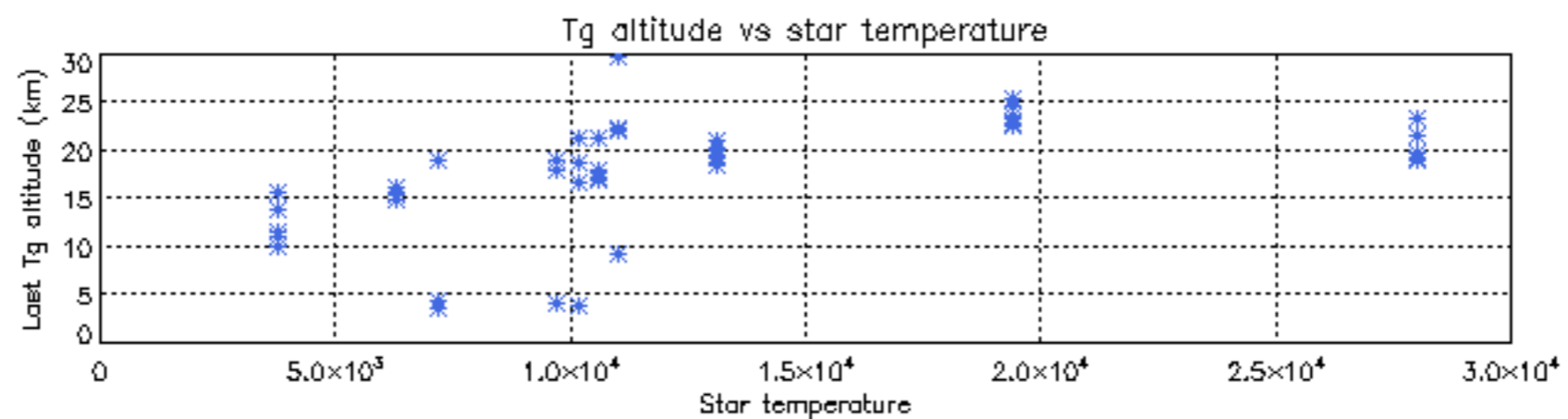
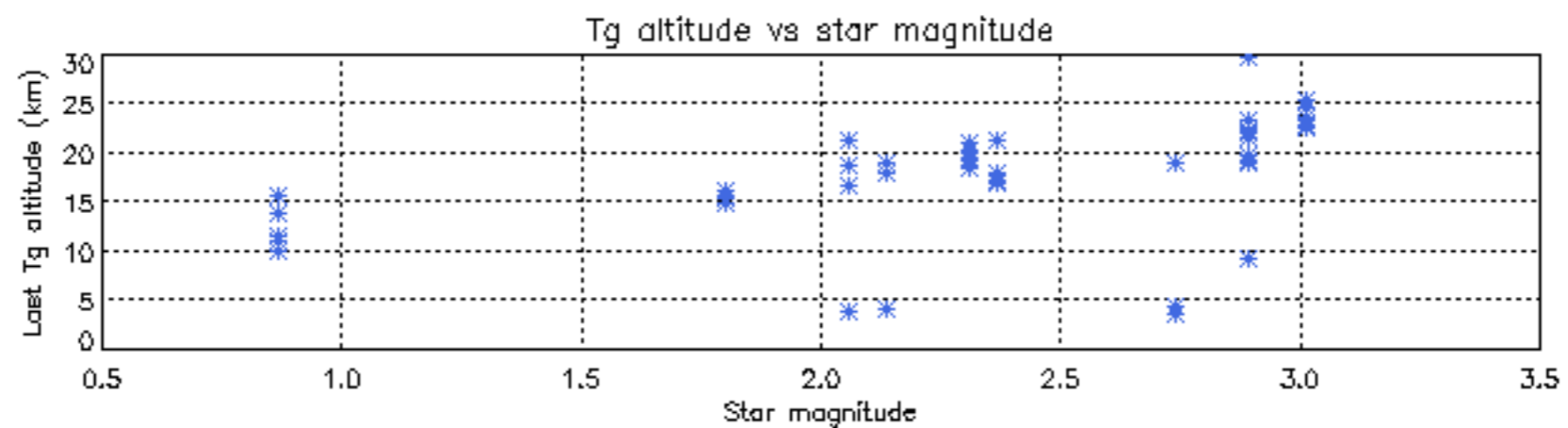
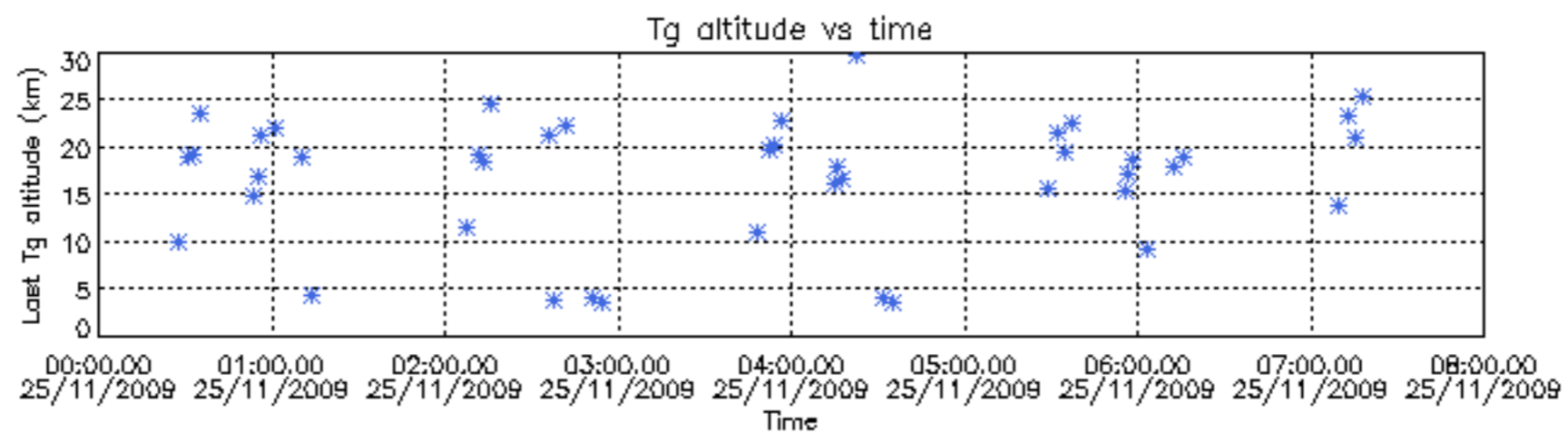
Percentage of saturation errors per profile



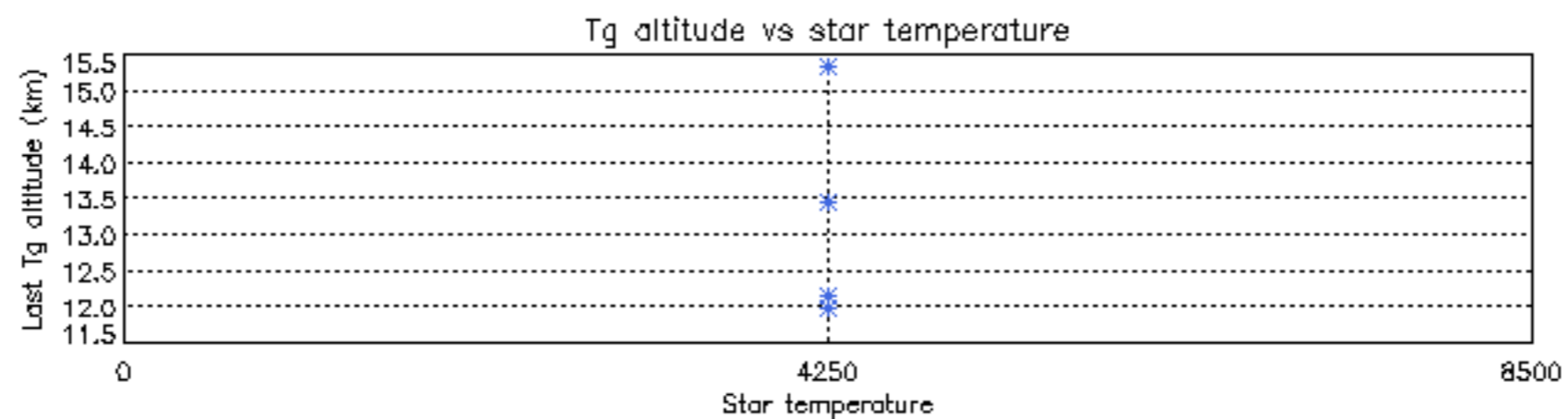
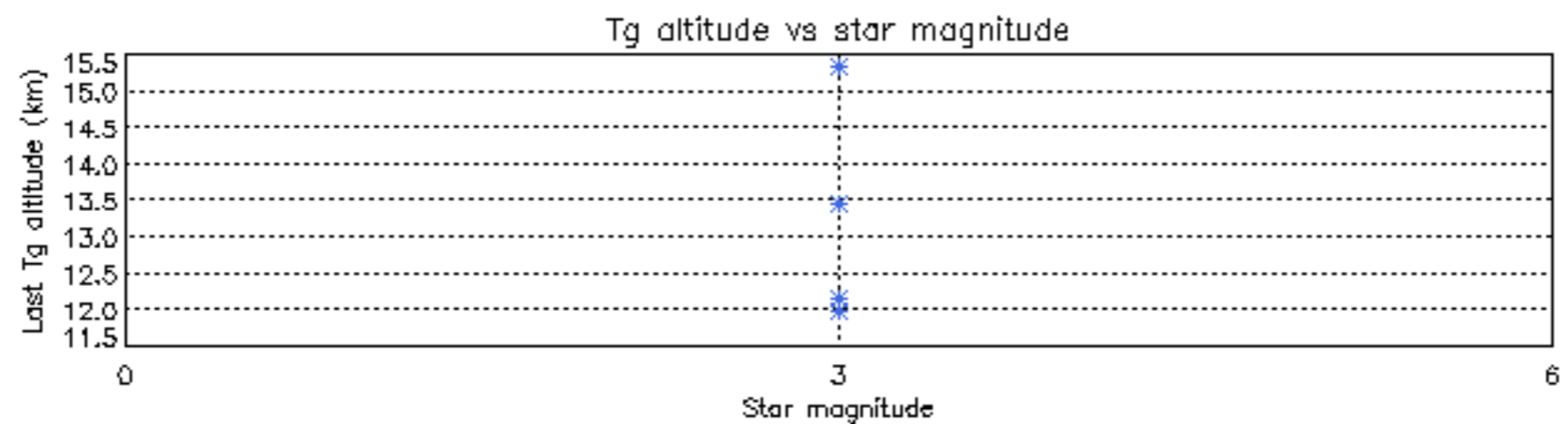
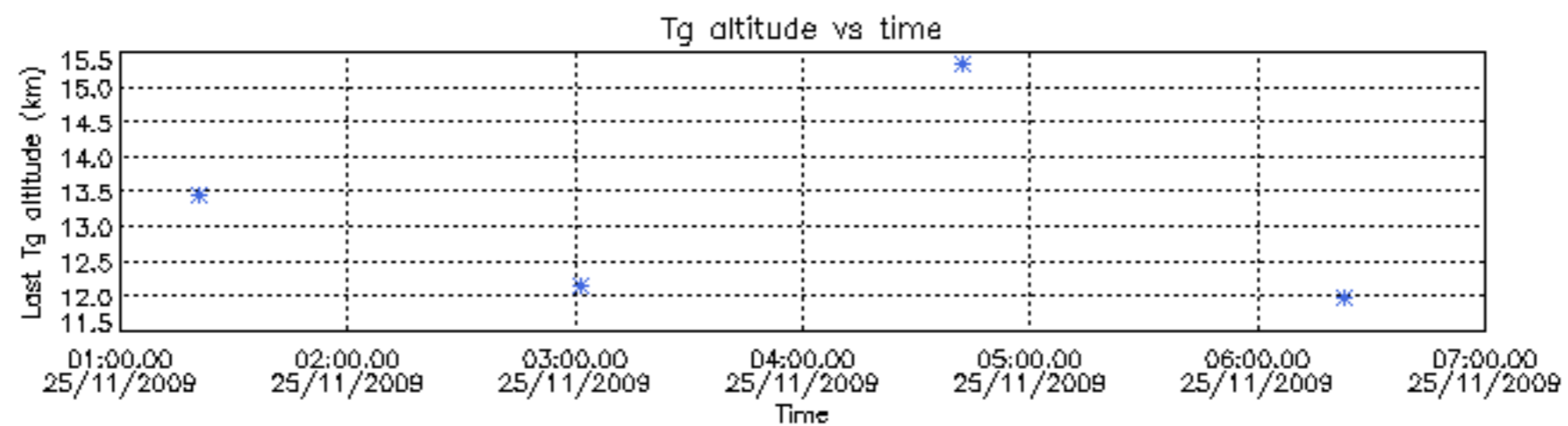
Tangent altitude at which the star is lost

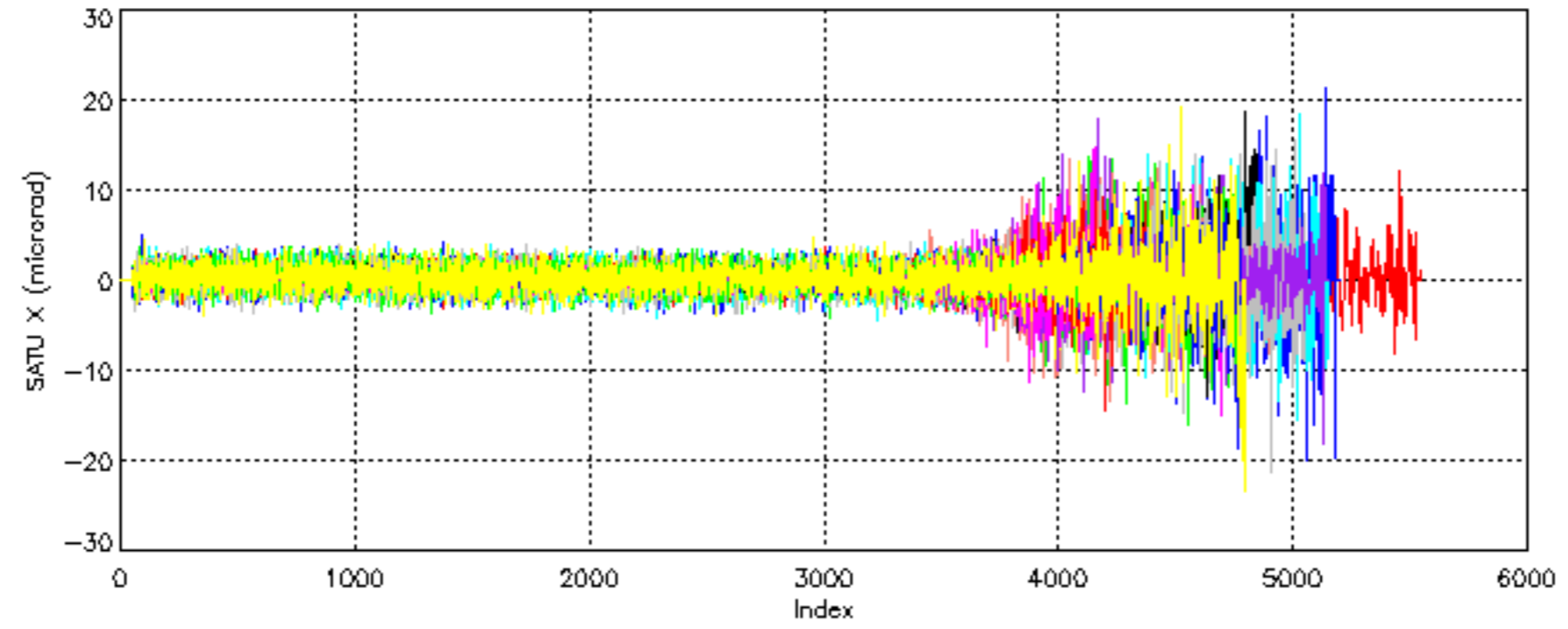


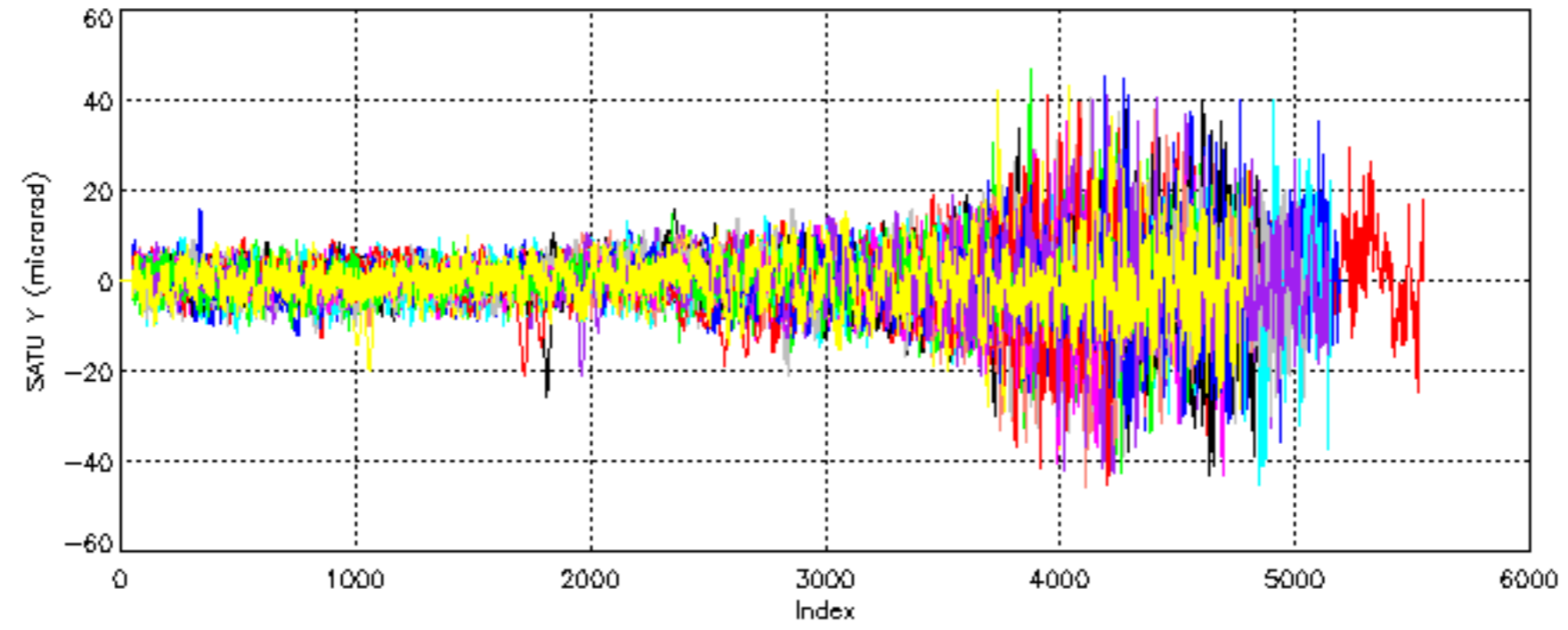
Tangent altitude at which the star is lost

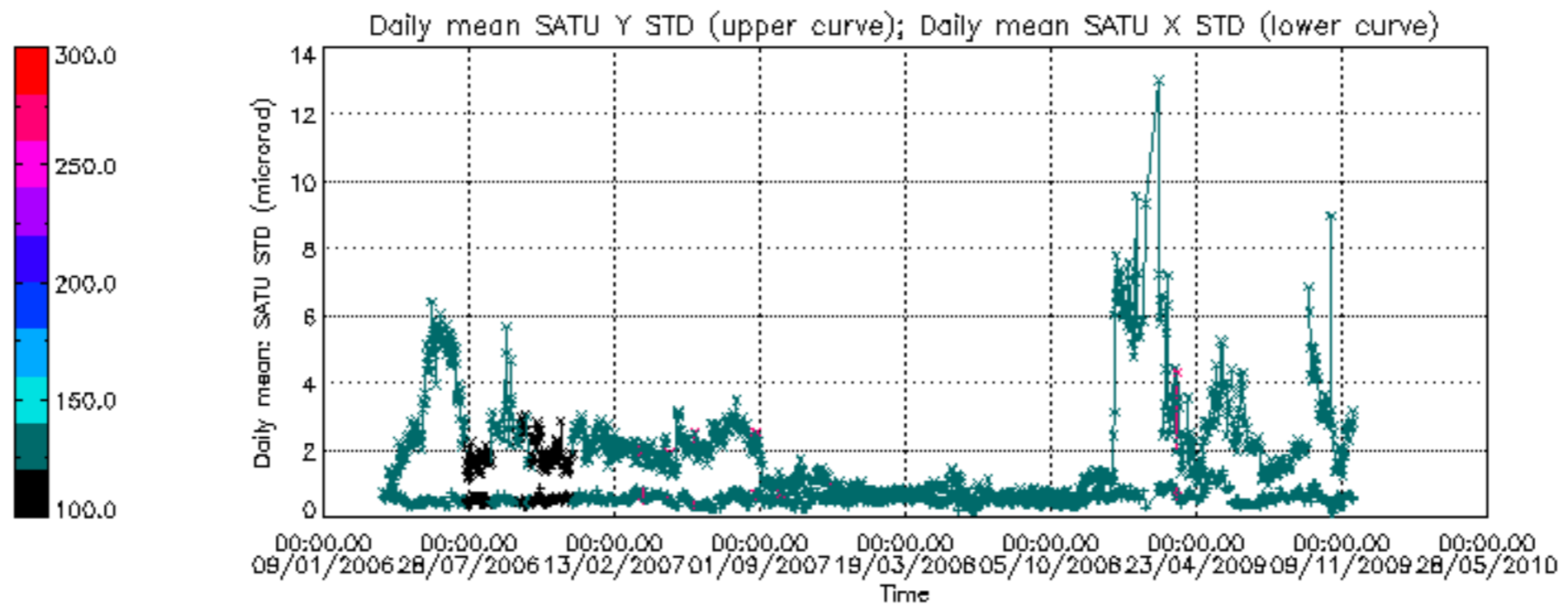


Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20091101\_003421\_000055302083\_00474\_40107\_8843.N1

1; -534.0; 01-NOV-2009 00:34:21; Dark ; 68.5; 48; 30Alp Hya ; 1.98; 4100;occ; 137; 0;40107  
 2; -19.6; 01-NOV-2009 00:42:55; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;40107  
 3; 197.6; 01-NOV-2009 00:46:32; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;40108  
 4; 348.1; 01-NOV-2009 00:49:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40108  
 5; 524.1; 01-NOV-2009 00:51:59; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;40108  
 6; 908.8; 01-NOV-2009 00:58:23; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 0;40108  
 7; 2010.3; 01-NOV-2009 01:16:45; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;40108  
 8; 2273.3; 01-NOV-2009 01:21:08; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;40108  
 9; 2538.3; 01-NOV-2009 01:25:33; Bright; 39.5; 173; 4Bet Tri ; 3.00; 8900;occ; 79; 0;40108  
 10; 2660.8; 01-NOV-2009 01:27:35; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;40108  
 11; 2742.1; 01-NOV-2009 01:28:57; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;40108  
 12; 2934.3; 01-NOV-2009 01:32:09; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;40108  
 13; 3911.9; 01-NOV-2009 01:48:27; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;40108  
 14; 4008.4; 01-NOV-2009 01:50:03; Bright; 38.0; 82; 48Bet UMa ; 2.37; 10600;occ; 76; 0;40108  
 15; 4229.5; 01-NOV-2009 01:53:44; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;40108  
 16; 4709.7; 01-NOV-2009 02:01:44; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;40108  
 17; 4938.4; 01-NOV-2009 02:05:33; Bright; 58.0; 22; 32Alp Leo ; 1.36; 15200;occ; 116; 0;40108

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20091101\_021458\_000044602083\_00475\_40108\_8844.N1

1; -532.5; 01-NOV-2009 02:14:58; Dark ; 66.0; 48; 30Alp Hya ; 1.98; 4100;occ; 132; 0;40108  
 2; -18.6; 01-NOV-2009 02:23:32; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;40108  
 3; 198.7; 01-NOV-2009 02:27:09; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40109  
 4; 349.0; 01-NOV-2009 02:29:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40109  
 5; 525.4; 01-NOV-2009 02:32:36; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;40109  
 6; 910.1; 01-NOV-2009 02:39:01; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 0;40109  
 7; 2010.1; 01-NOV-2009 02:57:21; Dark ; 56.5; 94; 92Alp Cet ; 2.53; 3100;occ; 113; 0;40109  
 8; 2273.2; 01-NOV-2009 03:01:44; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40109  
 9; 2538.6; 01-NOV-2009 03:06:09; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40109  
 10; 2660.6; 01-NOV-2009 03:08:11; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;40109  
 11; 2741.6; 01-NOV-2009 03:09:32; Bright; 44.5; 79; 26Bet Per ; 2.31; 13100;occ; 89; 0;40109  
 12; 2933.8; 01-NOV-2009 03:12:44; Bright; 42.5; 160; 23Gam Per ; 2.93; 4700;occ; 85; 0;40109  
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 13; 2273.1; 01-NOV-2009 04:42:20; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;40110  
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 5; 2648.4; 04-NOV-2009 11:36:43; Bright; 55.0; 73; 57Gam1And ; 2.26; 13100;occ; 110; 0;40157
 6; 2829.2; 04-NOV-2009 11:39:44; Bright; 49.0; 149; 45Eps Per ; 2.89; 30000;occ; 98; 0;40157
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 18; 6598.7; 04-NOV-2009 12:42:34; Dark ; 62.0; 2; Alp Car ; -0.74; 7000;occ; 124; 0;40157  
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 18; 6599.5; 04-NOV-2009 14:23:10; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;40158  
 19; 6993.3; 04-NOV-2009 14:29:44; Dark ; 61.0; 108; Alp Col ; 2.65; 15200;occ; 122; 0;40158

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 4; 2525.1; 04-NOV-2009 14:55:52; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40159  
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 13; 4973.4; 04-NOV-2009 15:36:40; Dark ; 64.5; 22; 32Alp Leo ; 1.36; 15200;occ; 129; 0;40159  
 14; 6062.8; 04-NOV-2009 15:54:50; Dark ; 54.0; 65; Lam Vel ; 2.20; 4400;occ; 108; 0;40159  
 15; 6207.4; 04-NOV-2009 15:57:14; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;40159  
 16; 6298.5; 04-NOV-2009 15:58:45; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40159  
 17; 6432.8; 04-NOV-2009 16:01:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40159  
 18; 6600.4; 04-NOV-2009 16:03:47; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;40159  
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4; 2524.7; 04-NOV-2009 18:17:03; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;40161
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8; 4003.7; 04-NOV-2009 18:41:42; Bright; 40.5; 82; 48Bet UMa ; 2.37; 10600;occ; 81; 0;40161
9; 4229.7; 04-NOV-2009 18:45:28; Bright; 57.0; 174; 52Psi UMa ; 3.00; 4400;occ; 114; 0;40161
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12; 4974.9; 04-NOV-2009 18:57:54; Dark ; 66.5; 22; 32Alp Leo ; 1.36; 15200;occ; 133; 0;40161
13; 6064.6; 04-NOV-2009 19:16:03; Dark ; 58.0; 65; Lam Vel ; 2.20; 4400;occ; 116; 0;40161
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16; 6434.7; 04-NOV-2009 19:22:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40161
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5; 2524.4; 04-NOV-2009 19:57:39; Bright; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;40162
6; 2647.4; 04-NOV-2009 19:59:42; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;40162
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6; 2644.6; 05-NOV-2009 21:08:38; Bright; 55.0; 73; 57Gam1And ; 2.26; 13100;occ; 110; 0;40177
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4; 2510.5; 10-NOV-2009 11:45:55; Bright; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;40243
5; 2634.0; 10-NOV-2009 11:47:59; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;40243
6; 2757.7; 10-NOV-2009 11:50:02; Bright; 45.0; 149; 45Eps Per ; 2.89; 30000;occ; 90; 0;40243
7; 2846.3; 10-NOV-2009 11:51:31; Bright; 42.5; 35; 33Alp Per ; 1.79; 6250;occ; 85; 0;40243
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4; 2510.0; 10-NOV-2009 15:07:07; Bright; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;40245
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5; 2633.5; 10-NOV-2009 16:49:46; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;40246
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3; 630.8; 11-NOV-2009 00:39:23; Dark ; 54.5; 2; Alp Car ;-0.74; 7000;occ; 109; 0;40251
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10; 4033.5; 28-NOV-2009 09:24:34; Bright; 39.5; 87; 64Gam UMa ; 2.43; 11000;occ; 79; 0;40499
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21; 6923.4; 28-NOV-2009 11:53:20; Dark ; 67.0; 117; Pi Pup ; 2.71; 3800;occ; 134; 0;40500
22; 7156.4; 28-NOV-2009 11:57:13; Dark ; 34.0; 23; 21Eps CMA ; 1.50; 26000;occ; 68; 0;40500
23; 7221.7; 28-NOV-2009 11:58:18; Dark ; 55.5; 177; 1Zet CMA ; 3.02; 26000;occ; 111; 0;40500
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 9; 3833.3; 28-NOV-2009 12:42:25; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;40501
10; 3930.4; 28-NOV-2009 12:44:03; Bright; 45.0; 82; 48Bet UMa ; 2.37; 10600;occ; 90; 0;40501
11; 4033.2; 28-NOV-2009 12:45:45; Bright; 41.0; 87; 64Gam UMa ; 2.43; 11000;occ; 82; 0;40501
12; 4195.9; 28-NOV-2009 12:48:28; Bright; 74.0; 174; 52Psi UMa ; 3.00; 4400;occ; 148; 0;40501
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 22; 6924.3; 28-NOV-2009 13:33:56; Dark ; 65.0; 117; Pi Pup ; 2.71; 3800;occ; 130; 0;40501  
 23; 7157.2; 28-NOV-2009 13:37:49; Dark ; 37.0; 23; 21Eps CMa ; 1.50; 26000;occ; 74; 0;40501  
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 5; 2479.6; 28-NOV-2009 14:00:28; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40502  
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 4; 2334.8; 28-NOV-2009 15:38:39; Bright; 40.5; 146; 25Eta Tau ; 2.87; 15200;occ; 81; 0;40503  
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6; 2329.9; 30-NOV-2009 12:54:44; Bright; 38.5; 146; 25Eta Tau ; 2.87; 15200;occ; 77; 0;40530  
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8; 2618.5; 30-NOV-2009 12:59:32; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;40530  
9; 2852.7; 30-NOV-2009 13:03:26; Bright; 51.0; 6; 13Alp Aur ; 0.08; 3400;occ; 102; 0;40530  
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13; 4015.4; 30-NOV-2009 13:22:49; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;40530  
14; 4189.4; 30-NOV-2009 13:25:43; Bright; 65.0; 174; 52Psi UMa ; 3.00; 4400;occ; 130; 0;40530  
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16; 4918.0; 30-NOV-2009 13:37:52; Bright; 59.0; 62; 94Bet Leo ; 2.14; 9700;occ; 118; 0;40530  
17; 5116.6; 30-NOV-2009 13:41:10; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;40530  
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21; 6437.6; 30-NOV-2009 14:03:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40530  
22; 6635.8; 30-NOV-2009 14:06:29; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40530  
23; 6740.1; 30-NOV-2009 14:08:14; Dark ; 58.5; 70; Zet Pup ; 2.25; 39000;occ; 117; 0;40530  
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4; 2100.0; 30-NOV-2009 14:31:30; Dark ; 63.0; 27; 24Gam Ori ; 1.64; 26000;occ; 126; 0;40531  
5; 2234.4; 30-NOV-2009 14:33:44; Bright; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;40531  
6; 2329.7; 30-NOV-2009 14:35:19; Bright; 38.0; 146; 25Eta Tau ; 2.87; 15200;occ; 76; 0;40531  
7; 2472.3; 30-NOV-2009 14:37:42; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;40531  
8; 2618.1; 30-NOV-2009 14:40:08; Bright; 38.0; 149; 45Eps Per ; 2.89; 30000;occ; 76; 0;40531  
9; 2852.3; 30-NOV-2009 14:44:02; Bright; 49.0; 6; 13Alp Aur ; 0.08; 3400;occ; 98; 0;40531  
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11; 3823.3; 30-NOV-2009 15:00:13; Bright; 49.5; 36; 50Alp UMa ; 1.80; 6300;occ; 99; 0;40531  
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13; 4015.2; 30-NOV-2009 15:03:25; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;40531  
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17; 5117.1; 30-NOV-2009 15:21:47; Bright; 61.0; 121; 29Gam Vir ; 2.74; 7200;occ; 122; 0;40531  
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19; 5551.1; 30-NOV-2009 15:29:01; Dark ; 49.5; 171; 2Eps Crv ; 3.00; 4250;occ; 99; 0;40531  
20; 6119.7; 30-NOV-2009 15:38:29; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;40531  
21; 6438.6; 30-NOV-2009 15:43:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40531  
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6; 2329.3; 30-NOV-2009 16:15:55; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;40532  
7; 2471.8; 30-NOV-2009 16:18:17; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;40532  
8; 2617.5; 30-NOV-2009 16:20:43; Bright; 39.5; 149; 45Eps Per ; 2.89; 30000;occ; 79; 0;40532  
9; 2851.6; 30-NOV-2009 16:24:37; Bright; 47.0; 6; 13Alp Aur ; 0.08; 3400;occ; 94; 0;40532  
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13; 4015.2; 30-NOV-2009 16:44:01; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;40532  
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