

GOMOS Daily Report 29-NOV-2007

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	01DEC2007 05:39:38
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (29NOV2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (30NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

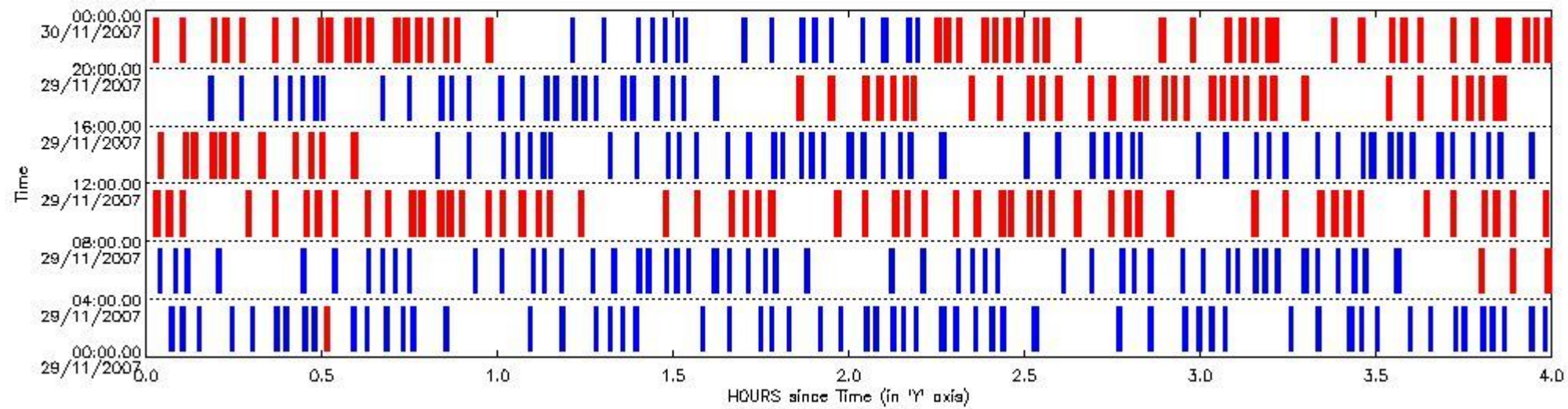
2.1 Level 0 products arrived in PCF (see template [here](#))

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
29-NOV-2007 00:30:28	IotCen	123	30044
29-NOV-2007 07:47:34	34GamEri	165	30049
29-NOV-2007 07:52:56	92AlpCet	94	30049
29-NOV-2007 07:58:52	25EtaTau	146	30049
29-NOV-2007 08:01:16	44ZetPer	150	30049
29-NOV-2007 08:03:25	26BetPer	79	30049
29-NOV-2007 08:05:43	39DelPer	175	30049
29-NOV-2007 08:17:00	1AlpUMi	49	30049
29-NOV-2007 08:21:38	7BetUMi	60	30049
29-NOV-2007 08:26:55	77EpsUMa	32	30049
29-NOV-2007 08:28:55	85EtaUMa	39	30049
29-NOV-2007 08:31:47	27GamBoo	180	30049
29-NOV-2007 08:37:18	16AlpBoo	3	30049
29-NOV-2007 08:40:47	47EpsVir	138	30049
29-NOV-2007 08:45:01	29GamVir	121	30049

29-NOV-2007 08:46:33	67AlpVir	15	30049
29-NOV-2007 08:49:42	7DelCrv	163	30049
29-NOV-2007 08:51:21	9BetCrv	106	30049
29-NOV-2007 08:53:29	lotCen	123	30049
29-NOV-2007 08:57:55	DSA1053	0	30049
29-NOV-2007 09:00:22	DelCru	129	30049
29-NOV-2007 09:03:45	TheCar	124	30050
29-NOV-2007 09:06:34	BetCar	29	30050
29-NOV-2007 09:08:21	EpsCar	41	30050
29-NOV-2007 09:13:45	AlpCar	2	30050
29-NOV-2007 09:28:10	34GamEri	165	30050
29-NOV-2007 09:33:32	92AlpCet	94	30050
29-NOV-2007 09:39:28	25EtaTau	146	30050
29-NOV-2007 09:41:52	44ZetPer	150	30050
29-NOV-2007 09:44:01	26BetPer	79	30050
29-NOV-2007 09:46:18	39DelPer	175	30050
29-NOV-2007 09:57:36	1AlpUMi	49	30050
29-NOV-2007 10:02:14	7BetUMi	60	30050
29-NOV-2007 10:07:31	77EpsUMa	32	30050
29-NOV-2007 10:09:31	85EtaUMa	39	30050
29-NOV-2007 10:12:23	27GamBoo	180	30050
29-NOV-2007 10:17:54	16AlpBoo	3	30050
29-NOV-2007 10:21:23	47EpsVir	138	30050
29-NOV-2007 10:25:37	29GamVir	121	30050
29-NOV-2007 10:27:09	67AlpVir	15	30050
29-NOV-2007 10:30:19	7DelCrv	163	30050
29-NOV-2007 10:31:58	9BetCrv	106	30050
29-NOV-2007 10:34:06	lotCen	123	30050
29-NOV-2007 10:38:31	DSA1053	0	30050
29-NOV-2007 10:44:22	TheCar	124	30051
29-NOV-2007 10:47:10	BetCar	29	30051
29-NOV-2007 10:48:57	EpsCar	41	30051
29-NOV-2007 10:54:21	AlpCar	2	30051
29-NOV-2007 11:08:46	34GamEri	165	30051
29-NOV-2007 11:14:08	92AlpCet	94	30051
29-NOV-2007 11:20:04	25EtaTau	146	30051
29-NOV-2007 11:22:28	44ZetPer	150	30051
29-NOV-2007 11:24:37	26BetPer	79	30051
29-NOV-2007 11:26:54	39DelPer	175	30051
29-NOV-2007 11:38:12	1AlpUMi	49	30051
29-NOV-2007 11:42:50	7BetUMi	60	30051
29-NOV-2007 11:48:07	77EpsUMa	32	30051
29-NOV-2007 11:50:07	85EtaUMa	39	30051
29-NOV-2007 11:52:59	27GamBoo	180	30051
29-NOV-2007 11:58:30	16AlpBoo	3	30051
29-NOV-2007 12:01:59	47EpsVir	138	30051
29-NOV-2007 12:06:14	29GamVir	121	30051
29-NOV-2007 12:07:46	67AlpVir	15	30051
29-NOV-2007 12:10:55	7DelCrv	163	30051
29-NOV-2007 12:12:34	9BetCrv	106	30051
29-NOV-2007 12:14:42	lotCen	123	30051
29-NOV-2007 12:19:08	DSA1053	0	30051
29-NOV-2007 12:24:58	TheCar	124	30052
29-NOV-2007 12:27:46	BetCar	29	30052
29-NOV-2007 12:29:34	EpsCar	41	30052
29-NOV-2007 12:34:58	AlpCar	2	30052
29-NOV-2007 17:51:10	34GamEri	165	30055
29-NOV-2007 17:56:32	92AlpCet	94	30055
29-NOV-2007 18:02:27	25EtaTau	146	30055

29-NOV-2007 18:04:50	44ZetPer	150	30055
29-NOV-2007 18:07:00	26BetPer	79	30055
29-NOV-2007 18:09:17	39DelPer	175	30055
29-NOV-2007 18:10:33	23GamPer	160	30055
29-NOV-2007 18:20:35	1AlpUMi	49	30055
29-NOV-2007 18:25:14	7BetUMi	60	30055
29-NOV-2007 18:30:30	77EpsUMa	32	30055
29-NOV-2007 18:32:31	85EtaUMa	39	30055
29-NOV-2007 18:35:23	27GamBoo	180	30055
29-NOV-2007 18:40:54	16AlpBoo	3	30055
29-NOV-2007 18:44:24	47EpsVir	138	30055
29-NOV-2007 18:48:40	29GamVir	121	30055
29-NOV-2007 18:50:11	67AlpVir	15	30055
29-NOV-2007 18:53:22	7DelCrv	163	30055
29-NOV-2007 18:55:01	9BetCrv	106	30055
29-NOV-2007 18:57:07	lotCen	123	30055
29-NOV-2007 19:01:34	DSA1053	0	30055
29-NOV-2007 19:03:16	GamCru	26	30055
29-NOV-2007 19:05:19	MuVel	113	30056
29-NOV-2007 19:07:23	TheCar	124	30056
29-NOV-2007 19:10:12	BetCar	29	30056
29-NOV-2007 19:12:00	EpsCar	41	30056
29-NOV-2007 19:17:24	AlpCar	2	30056
29-NOV-2007 19:31:46	34GamEri	165	30056
29-NOV-2007 19:37:08	92AlpCet	94	30056
29-NOV-2007 19:43:02	25EtaTau	146	30056
29-NOV-2007 19:45:26	44ZetPer	150	30056
29-NOV-2007 19:47:36	26BetPer	79	30056
29-NOV-2007 19:49:52	39DelPer	175	30056
29-NOV-2007 19:51:09	23GamPer	160	30056
29-NOV-2007 20:01:11	1AlpUMi	49	30056
29-NOV-2007 20:05:50	7BetUMi	60	30056
29-NOV-2007 20:11:06	77EpsUMa	32	30056
29-NOV-2007 20:13:07	85EtaUMa	39	30056
29-NOV-2007 20:15:59	27GamBoo	180	30056
29-NOV-2007 20:21:30	16AlpBoo	3	30056
29-NOV-2007 20:25:01	47EpsVir	138	30056
29-NOV-2007 20:29:16	29GamVir	121	30056
29-NOV-2007 20:30:47	67AlpVir	15	30056
29-NOV-2007 20:33:58	7DelCrv	163	30056
29-NOV-2007 20:35:37	9BetCrv	106	30056
29-NOV-2007 20:37:43	lotCen	123	30056
29-NOV-2007 20:42:10	DSA1053	0	30056
29-NOV-2007 20:43:53	GamCru	26	30056
29-NOV-2007 20:45:55	MuVel	113	30057
29-NOV-2007 20:48:00	TheCar	124	30057
29-NOV-2007 20:50:48	BetCar	29	30057
29-NOV-2007 20:52:36	EpsCar	41	30057
29-NOV-2007 20:58:00	AlpCar	2	30057
29-NOV-2007 22:14:35	7DelCrv	163	30057
29-NOV-2007 22:16:14	9BetCrv	106	30057
29-NOV-2007 22:18:20	lotCen	123	30057
29-NOV-2007 22:22:47	DSA1053	0	30057
29-NOV-2007 22:24:29	GamCru	26	30057
29-NOV-2007 22:26:32	MuVel	113	30058
29-NOV-2007 22:28:36	TheCar	124	30058
29-NOV-2007 22:31:24	BetCar	29	30058
29-NOV-2007 22:33:13	EpsCar	41	30058
29-NOV-2007 22:38:37	AlpCar	2	30058

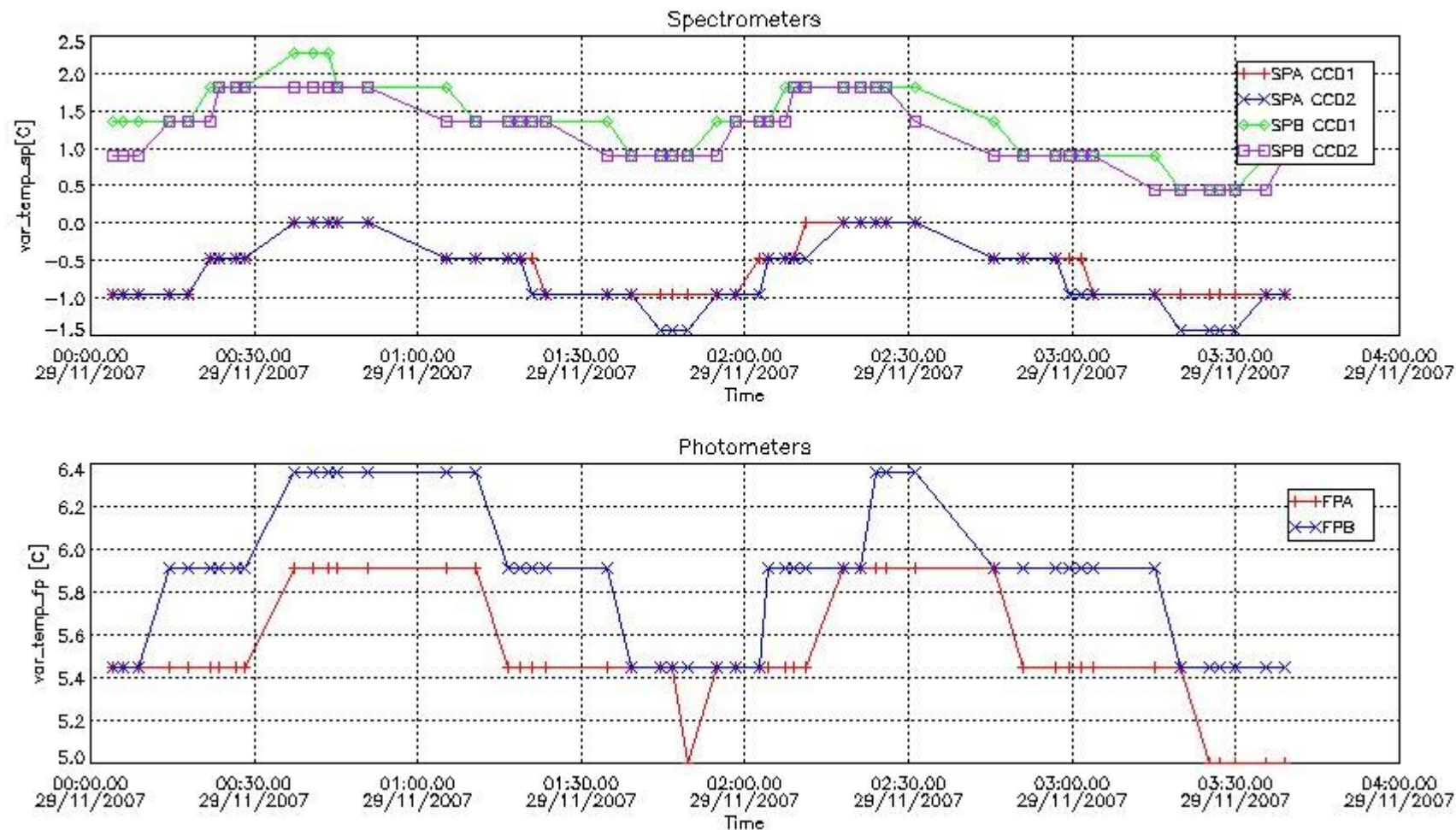
29-NOV-2007 22:52:58	34GamEri	165	30058
29-NOV-2007 22:58:20	92AlpCet	94	30058
29-NOV-2007 23:04:14	25EtaTau	146	30058
29-NOV-2007 23:06:37	44ZetPer	150	30058
29-NOV-2007 23:08:48	26BetPer	79	30058
29-NOV-2007 23:11:04	39DelPer	175	30058
29-NOV-2007 23:12:21	23GamPer	160	30058
29-NOV-2007 23:22:23	1AlpUMi	49	30058
29-NOV-2007 23:27:02	7BetUMi	60	30058
29-NOV-2007 23:32:18	77EpsUMa	32	30058
29-NOV-2007 23:34:19	85EtaUMa	39	30058
29-NOV-2007 23:37:11	27GamBoo	180	30058
29-NOV-2007 23:42:43	16AlpBoo	3	30058
29-NOV-2007 23:46:13	47EpsVir	138	30058
29-NOV-2007 23:50:29	29GamVir	121	30058
29-NOV-2007 23:52:00	67AlpVir	15	30058
29-NOV-2007 23:55:12	7DelCrv	163	30058
29-NOV-2007 23:56:50	9BetCrv	106	30058
29-NOV-2007 23:58:56	lotCen	123	30058

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_1PNPDE20071129_000355_000000402063_00431_30044_6193.N1	29-NOV-2007 00:03:55	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	30044	No
2	GOM_TRA_1PNPDE20071129_000555_000000372063_00431_30044_6194.N1	29-NOV-2007 00:05:55	Bright	36.500	39	85Eta UMa	1.8540	24000.	73	30044	No
3	GOM_TRA_1PNPDE20071129_000846_000000342063_00431_30044_6195.N1	29-NOV-2007 00:08:46	Bright	33.500	180	27Gam Boo	3.0400	8000.0	67	30044	No
4	GOM_TRA_1PNPDE20071129_001416_000000342063_00431_30044_6196.N1	29-NOV-2007 00:14:16	Bright	33.500	3	16Alp Boo	-0.050000	4250.0	67	30044	No
5	GOM_TRA_1PNPDE20071129_001744_000000382063_00431_30044_6197.N1	29-NOV-2007 00:17:44	Bright	37.500	138	47Eps Vir	2.8280	4700.0	75	30044	No
6	GOM_TRA_1PNPDE20071129_002158_000000422063_00431_30044_6198.N1	29-NOV-2007 00:21:58	Bright	42.000	121	29Gam Vir	2.7400	7200.0	84	30044	No
7	GOM_TRA_1PNPDE20071129_002331_000000392063_00431_30044_6199.N1	29-NOV-2007 00:23:31	Bright	39.000	15	67Alp Vir	0.97600	28000.	78	30044	No
8	GOM_TRA_1PNPDE20071129_002639_000000442063_00431_30044_6315.N1	29-NOV-2007 00:26:39	Twilight	43.500	163	7Del Crv	2.9450	11000.	87	30044	No
9	GOM_TRA_1PNPDE20071129_002818_000000432063_00431_30044_6316.N1	29-NOV-2007 00:28:18	Twilight	43.000	106	9Bet Crv	2.6480	5600.0	86	30044	No
10	GOM_TRA_1PNPDE20071129_003720_000000392063_00431_30044_6317.N1	29-NOV-2007 00:37:20	Dark	38.500	129	Del Cru	2.7930	26000.	77	30044	No
11	GOM_TRA_1PNPDE20071129_004042_000000372063_00432_30045_6318.N1	29-NOV-2007 00:40:42	Dark	36.500	124	The Car	2.7640	30000.	73	30045	No
12	GOM_TRA_1PNPDE20071129_004331_000000392063_00432_30045_6319.N1	29-NOV-2007 00:43:31	Dark	38.500	29	Bet Car	1.6720	10200.	77	30045	No
13	GOM_TRA_1PNPDE20071129_004517_000000452063_00432_30045_6320.N1	29-NOV-2007 00:45:17	Dark	44.500	41	Eps Car	1.8600	4100.0	89	30045	No
14	GOM_TRA_1PNPDE20071129_005042_000000492063_00432_30045_6321.N1	29-NOV-2007 00:50:42	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	30045	No
15	GOM_TRA_1PNPDE20071129_010509_000000432063_00432_30045_6322.N1	29-NOV-2007 01:05:09	Straylight	43.000	165	34Gam Eri	2.9500	3200.0	86	30045	No
16	GOM_TRA_1PNPDE20071129_011031_000000502063_00432_30045_6323.N1	29-NOV-2007 01:10:31	Twilight	49.500	94	92Alp Cet	2.5260	3100.0	99	30045	No
17	GOM_TRA_1PNPDE20071129_011628_000000392063_00432_30045_6324.N1	29-NOV-2007 01:16:28	Bright	38.500	146	25Eta Tau	2.8730	15200.	77	30045	No
18	GOM_TRA_1PNPDE20071129_011853_000000402063_00432_30045_6325.N1	29-NOV-2007 01:18:53	Bright	39.500	150	44Zet Per	2.8900	28000.	79	30045	No
19	GOM_TRA_1PNPDE20071129_012101_000000352063_00432_30045_6326.N1	29-NOV-2007 01:21:01	Bright	35.000	79	26Bet Per	2.3100	13100.	70	30045	No
20	GOM_TRA_1PNPDE20071129_012319_000000352063_00432_30045_6327.N1	29-NOV-2007 01:23:19	Bright	35.000	175	39Del Per	3.0100	19400.	70	30045	No
21	GOM_TRA_1PNPDE20071129_013435_000000352063_00432_30045_6328.N1	29-NOV-2007 01:34:35	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	30045	No
22	GOM_TRA_1PNPDE20071129_013913_000000372063_00432_30045_6329.N1	29-NOV-2007 01:39:13	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30045	No
23	GOM_TRA_1PNPDE20071129_014431_000000392063_00432_30045_6330.N1	29-NOV-2007 01:44:31	Bright	39.000	32	77Eps UMa	1.7630	11000.	78	30045	No
24	GOM_TRA_1PNPDE20071129_014631_000000362063_00432_30045_6331.N1	29-NOV-2007 01:46:31	Bright	36.000	39	85Eta UMa	1.8540	24000.	72	30045	No
25	GOM_TRA_1PNPDE20071129_014921_000000462063_00432_30045_6332.N1	29-NOV-2007 01:49:21	Bright	46.000	180	27Gam Boo	3.0400	8000.0	92	30045	No
26	GOM_TRA_1PNPDE20071129_015452_000000332063_00432_30045_6333.N1	29-NOV-2007 01:54:52	Bright	33.000	3	16Alp Boo	-0.050000	4250.0	66	30045	No
27	GOM_TRA_1PNPDE20071129_015821_000000382063_00432_30045_6334.N1	29-NOV-2007 01:58:21	Bright	37.500	138	47Eps Vir	2.8280	4700.0	75	30045	No
28	GOM_TRA_1PNPDE20071129_020234_000000432063_00432_30045_6468.N1	29-NOV-2007 02:02:34	Bright	43.000	121	29Gam Vir	2.7400	7200.0	86	30045	No
29	GOM_TRA_1PNPDE20071129_020407_000000542063_00432_30045_6469.N1	29-NOV-2007 02:04:07	Bright	54.000	15	67Alp Vir	0.97600	28000.	108	30045	No
30	GOM_TRA_1PNPDE20071129_020715_000000442063_00432_30045_6470.N1	29-NOV-2007 02:07:15	Twilight	43.500	163	7Del Crv	2.9450	11000.	87	30045	No
31	GOM_TRA_1PNPDE20071129_020854_000000432063_00432_30045_6471.N1	29-NOV-2007 02:08:54	Twilight	43.000	106	9Bet Crv	2.6480	5600.0	86	30045	No
32	GOM_TRA_1PNPDE20071129_021103_000000382063_00432_30045_6472.N1	29-NOV-2007 02:11:03	Twilight	37.500	123	lot Cen	2.7500	10200.	75	30045	No
33	GOM_TRA_1PNPDE20071129_021756_000000382063_00432_30045_6473.N1	29-NOV-2007 02:17:56	Dark	37.500	129	Del Cru	2.7930	26000.	75	30045	No
34	GOM_TRA_1PNPDE20071129_022119_000000382063_00433_30046_6474.N1	29-NOV-2007 02:21:19	Dark	37.500	124	The Car	2.7640	30000.	75	30046	No
35	GOM_TRA_1PNPDE20071129_022407_000000402063_00433_30046_6475.N1	29-NOV-2007 02:24:07	Dark	40.000	29	Bet Car	1.6720	10200.	80	30046	No

36	GOM_TRA_1PNPDE20071129_022553_00000522063_00433_30046_6476.N1	29-NOV-2007 02:25:53	Dark	52.000	41	Eps Car	1.8600	4100.0	104	30046	No
37	GOM_TRA_1PNPDE20071129_023118_00000582063_00433_30046_6477.N1	29-NOV-2007 02:31:18	Dark	57.500	2	Alp Car	-0.73600	7000.0	115	30046	No
38	GOM_TRA_1PNPDE20071129_024545_00000452063_00433_30046_6478.N1	29-NOV-2007 02:45:45	Straylight	44.500	165	34Gam Eri	2.9500	3200.0	89	30046	No
39	GOM_TRA_1PNPDE20071129_025107_00000452063_00433_30046_6479.N1	29-NOV-2007 02:51:07	Twilight_stray	44.500	94	92Alp Cet	2.5260	3100.0	89	30046	No
40	GOM_TRA_1PNPDE20071129_025704_00000392063_00433_30046_6480.N1	29-NOV-2007 02:57:04	Bright	39.000	146	25Eta Tau	2.8730	15200.	78	30046	No
41	GOM_TRA_1PNPDE20071129_025929_00000392063_00433_30046_6481.N1	29-NOV-2007 02:59:29	Bright	38.500	150	44Zet Per	2.8900	28000.	77	30046	No
42	GOM_TRA_1PNPDE20071129_030137_00000382063_00433_30046_6482.N1	29-NOV-2007 03:01:37	Bright	38.000	79	26Bet Per	2.3100	13100.	76	30046	No
43	GOM_TRA_1PNPDE20071129_030355_00000362063_00433_30046_6483.N1	29-NOV-2007 03:03:55	Bright	35.500	175	39Del Per	3.0100	19400.	71	30046	No
44	GOM_TRA_1PNPDE20071129_031511_00000322063_00433_30046_6484.N1	29-NOV-2007 03:15:11	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	30046	No
45	GOM_TRA_1PNPDE20071129_031950_00000362063_00433_30046_6589.N1	29-NOV-2007 03:19:50	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	30046	No
46	GOM_TRA_1PNPDE20071129_032507_00000562063_00433_30046_6590.N1	29-NOV-2007 03:25:07	Bright	56.000	32	77Eps UMa	1.7630	11000.	112	30046	No
47	GOM_TRA_1PNPDE20071129_032707_00000362063_00433_30046_6591.N1	29-NOV-2007 03:27:07	Bright	35.500	39	85Eta UMa	1.8540	24000.	71	30046	No
48	GOM_TRA_1PNPDE20071129_032958_00000332063_00433_30046_6592.N1	29-NOV-2007 03:29:58	Bright	32.500	180	27Gam Boo	3.0400	8000.0	65	30046	No
49	GOM_TRA_1PNPDE20071129_033528_00000332063_00433_30046_6593.N1	29-NOV-2007 03:35:28	Bright	33.000	3	16Alp Boo	-0.050000	4250.0	66	30046	No
50	GOM_TRA_1PNPDE20071129_033857_00000392063_00433_30046_6594.N1	29-NOV-2007 03:38:57	Bright	38.500	138	47Eps Vir	2.8280	4700.0	77	30046	No

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



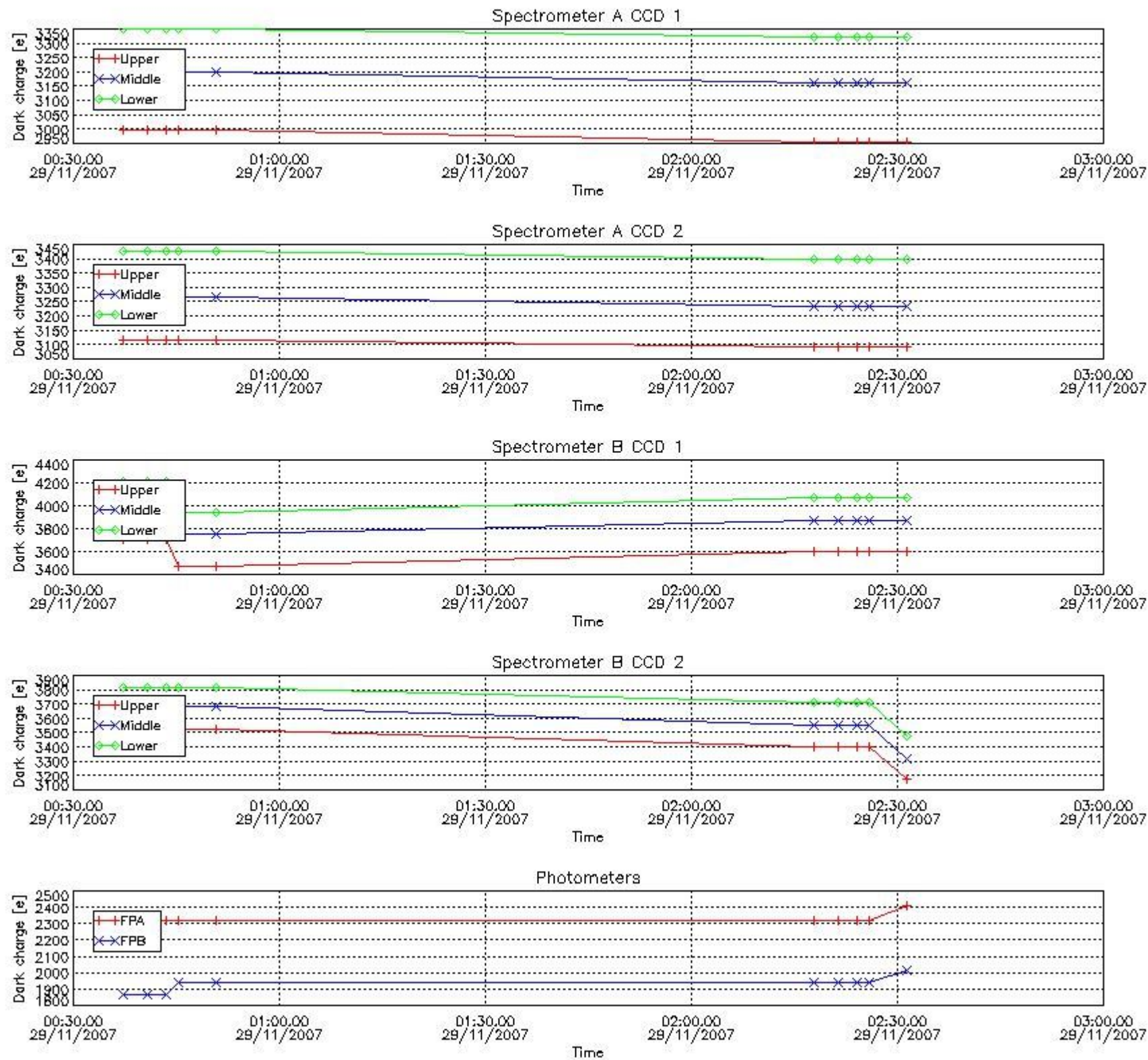
4. Overview of dark signal processing per product

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

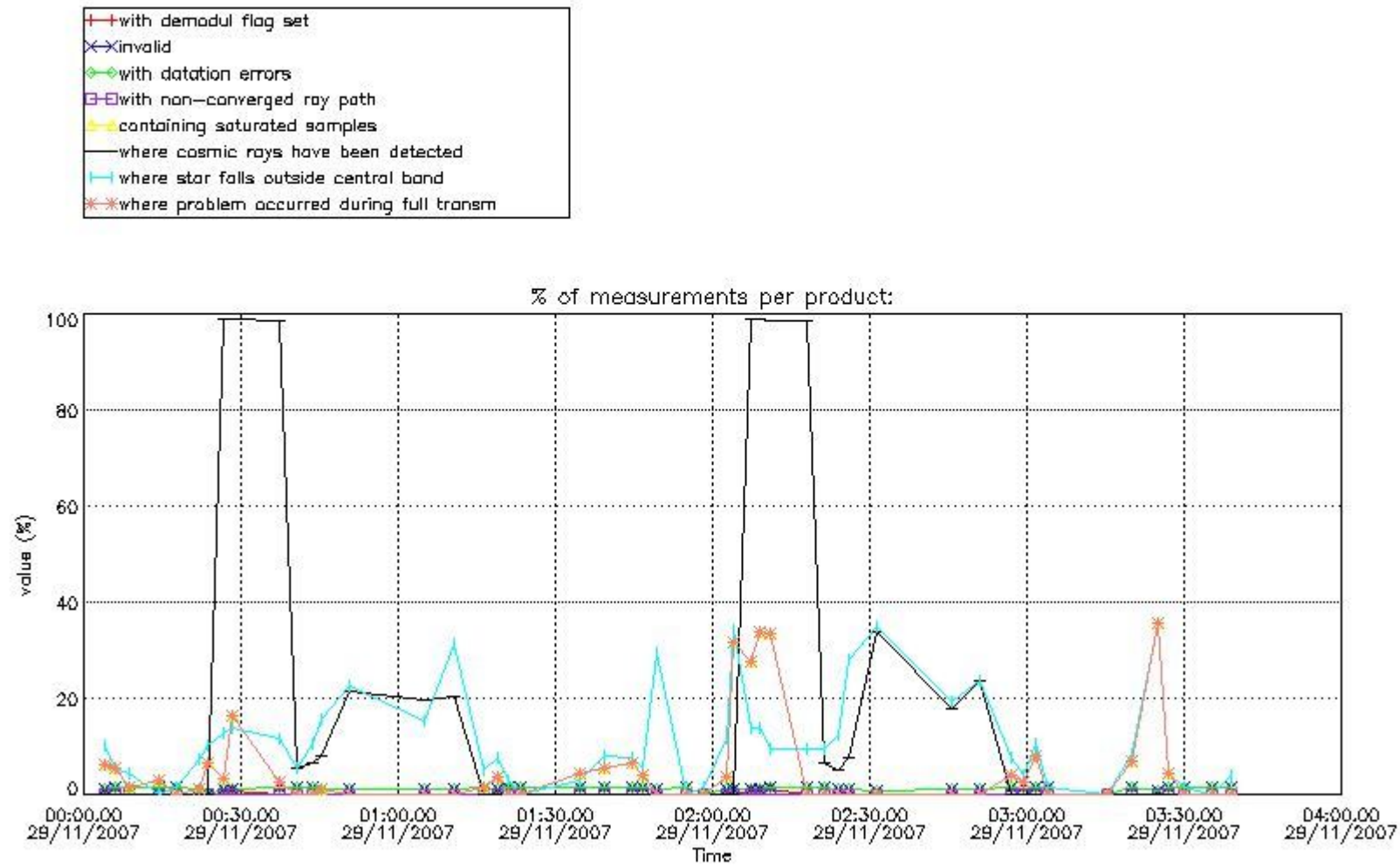
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors

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

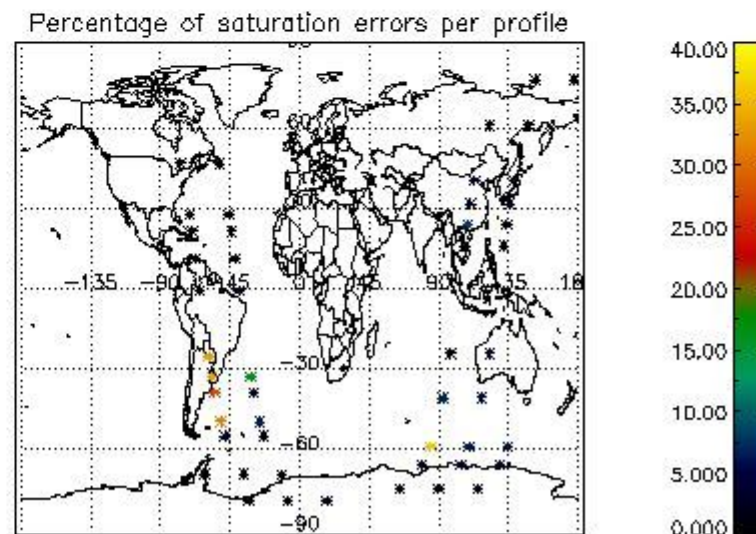
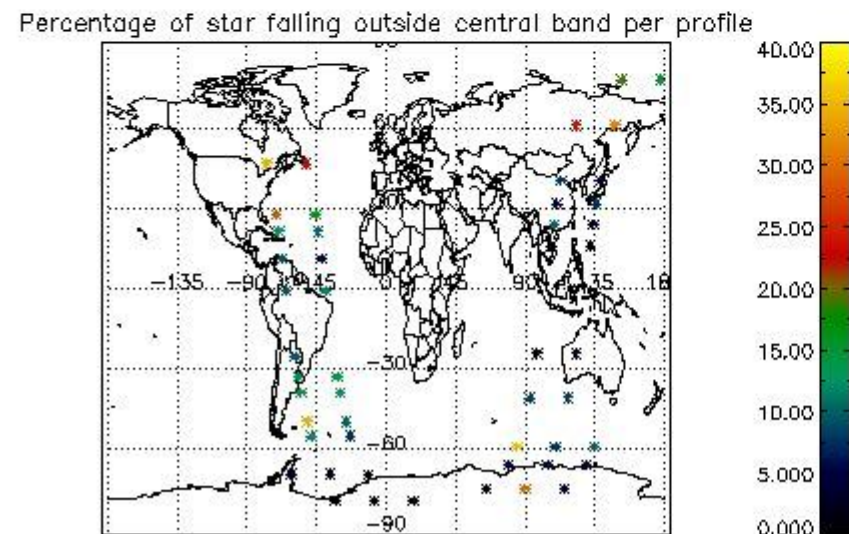
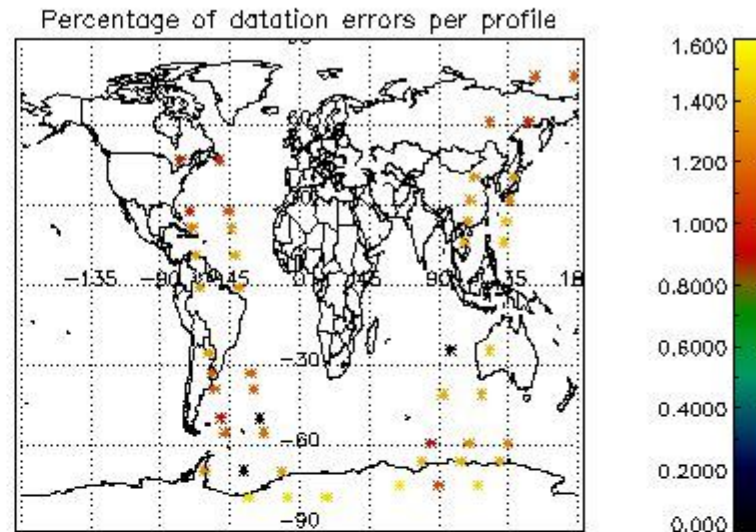
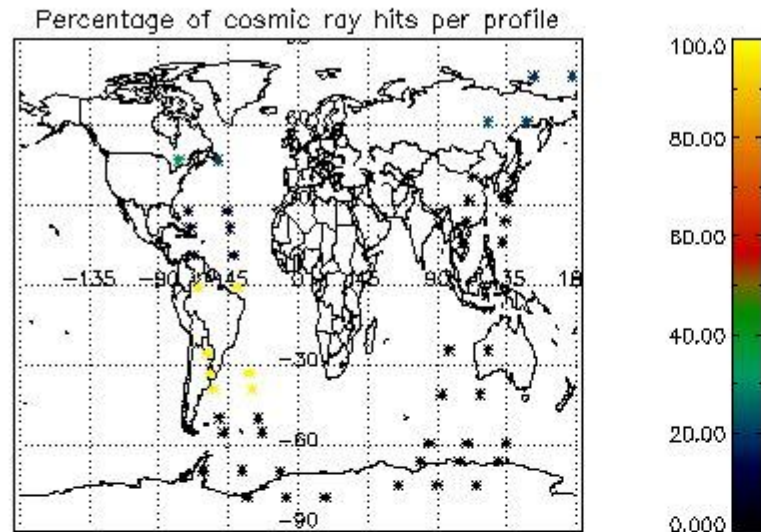
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.0000 %
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)



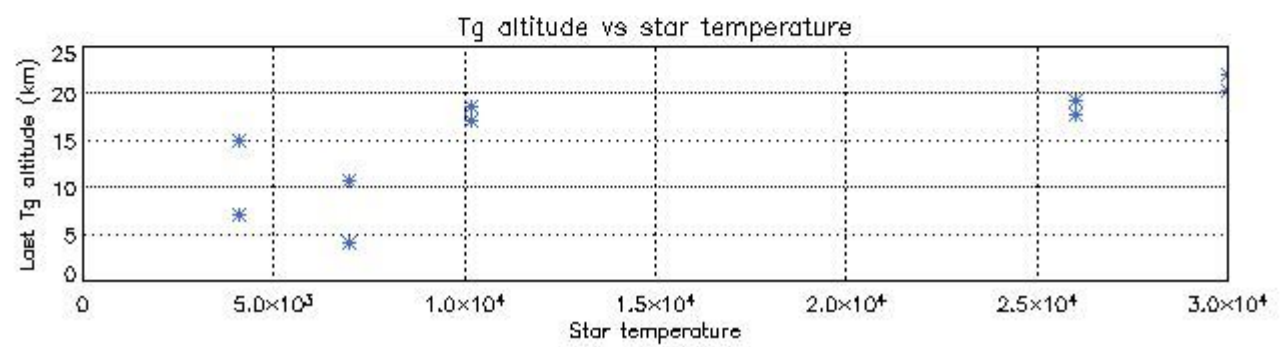
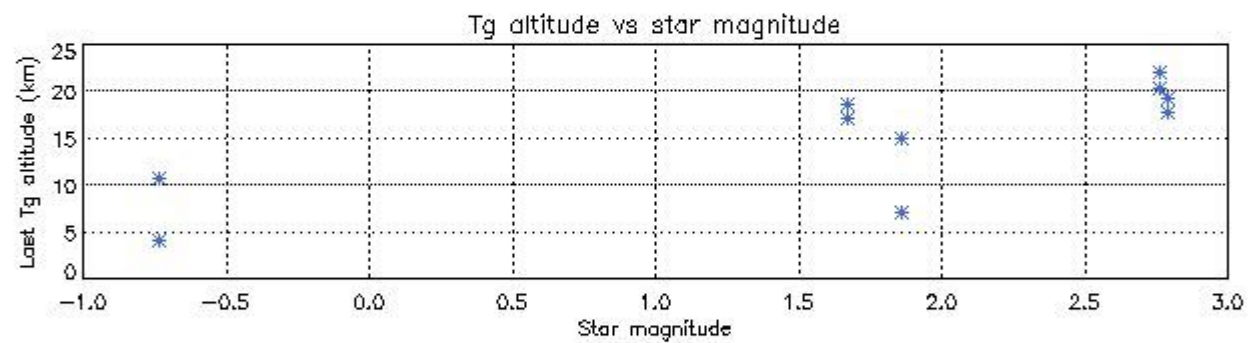
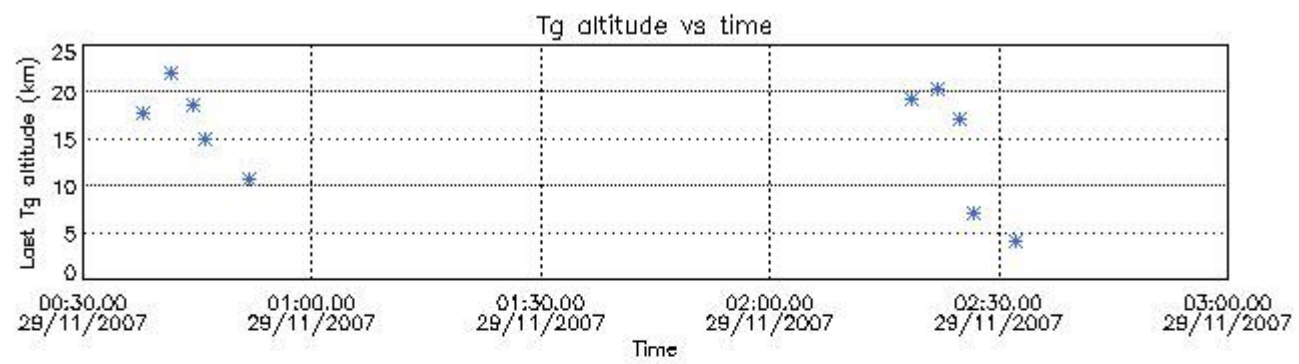
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.174	20.535	16.141
St. deviation:	5.9812	6.1163	1.5130
Maximum:	21.912	30.433	17.884
Minimum:	4.0234	3.4281	15.168
Number of data:	10.000	31.000	3.0000

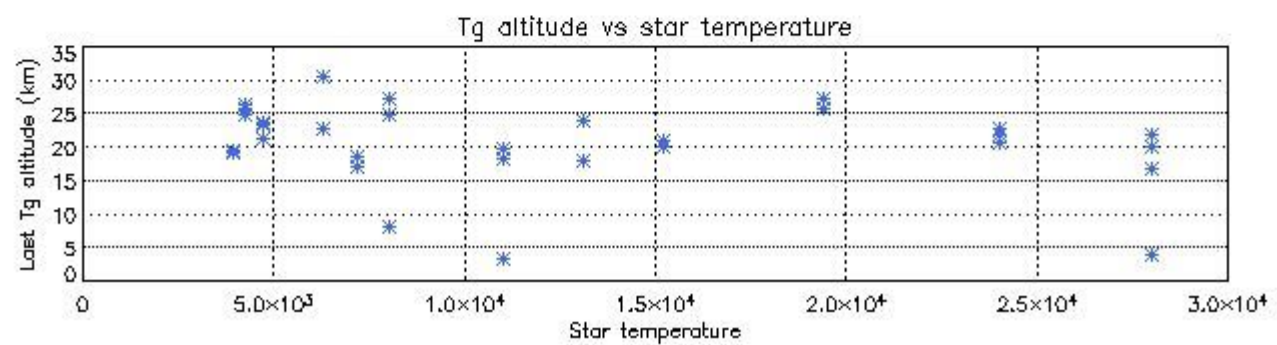
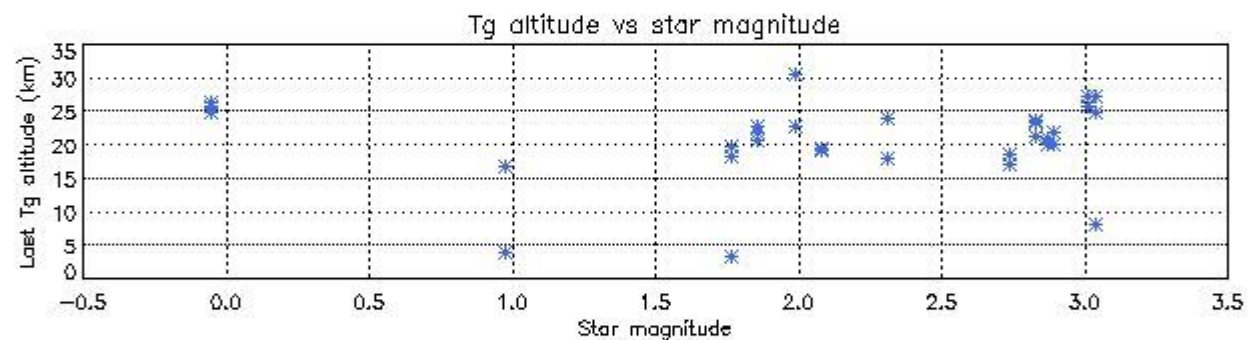
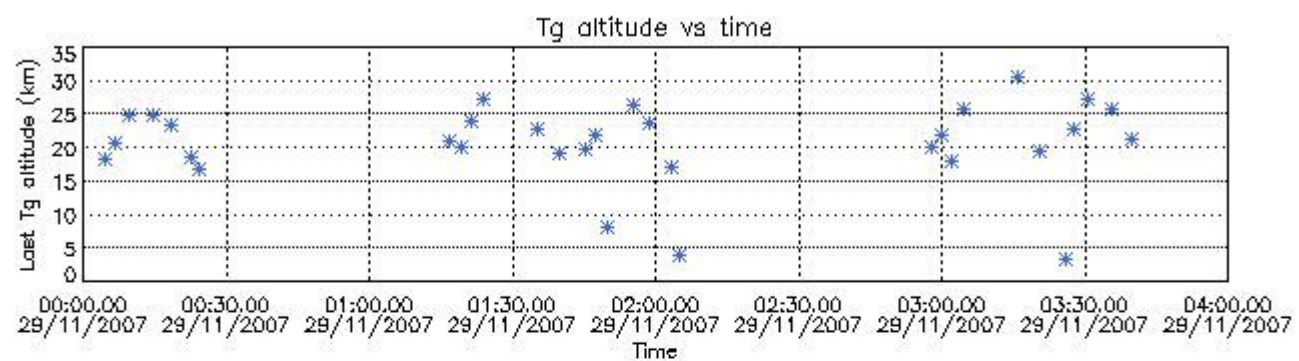
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



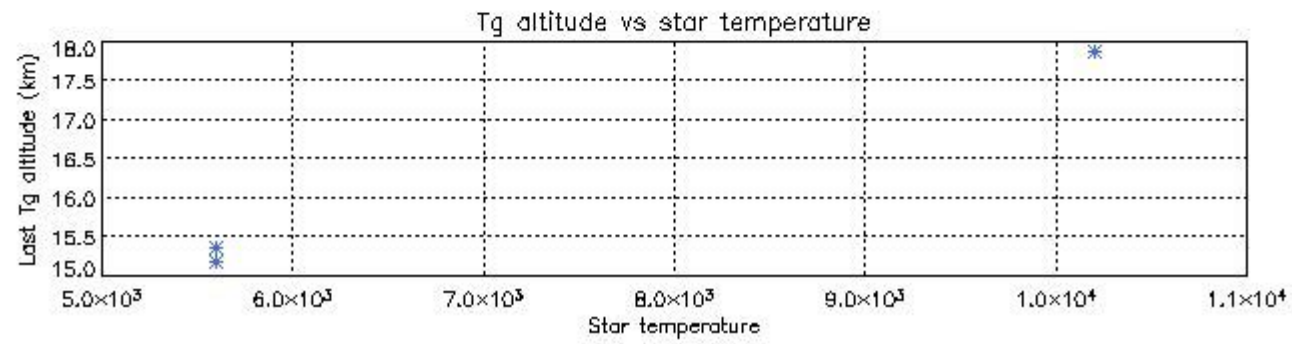
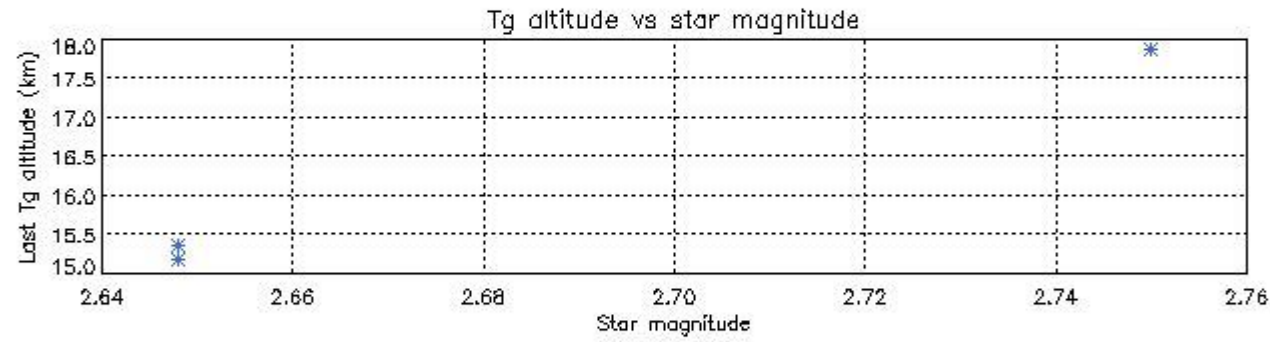
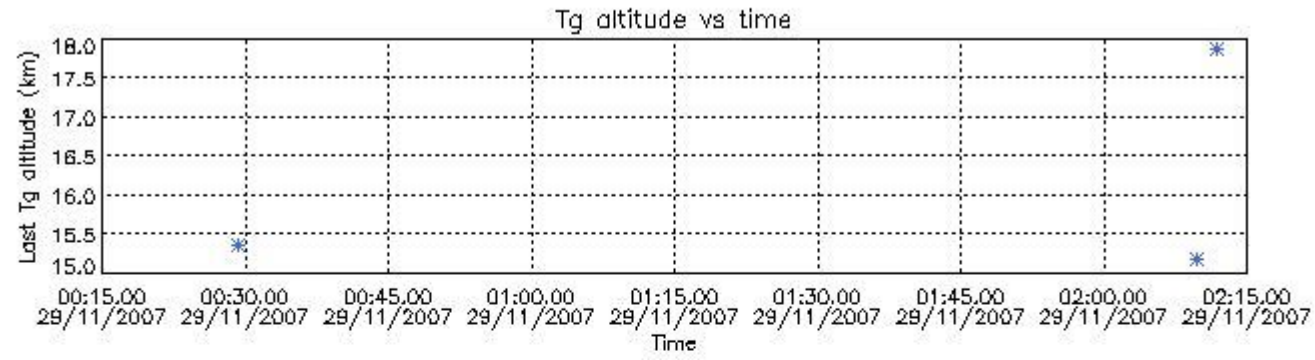
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

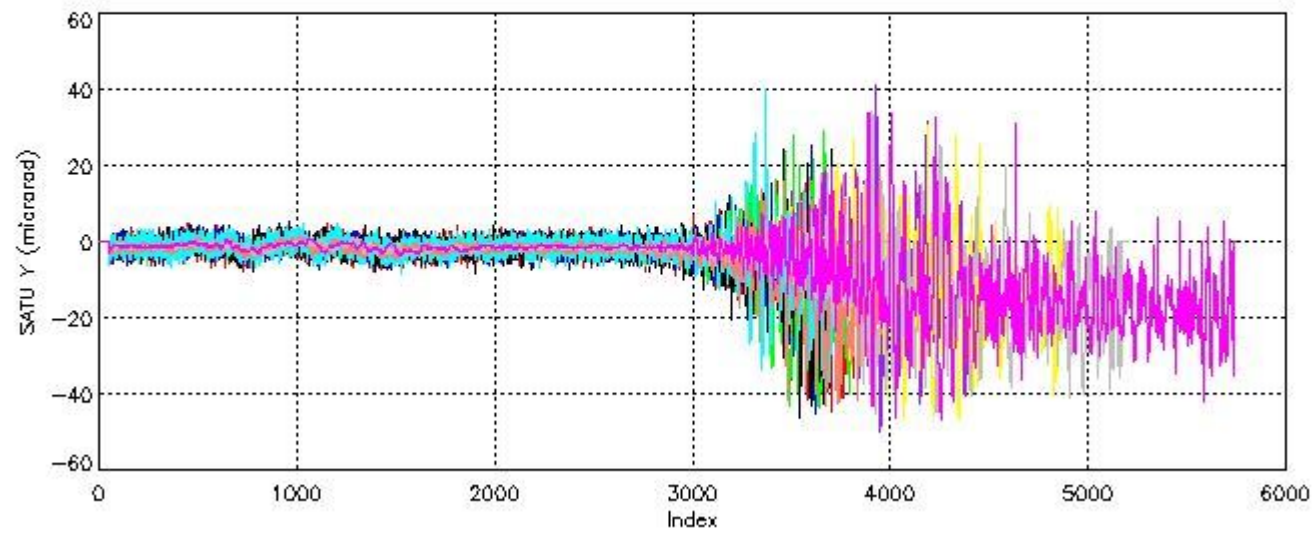
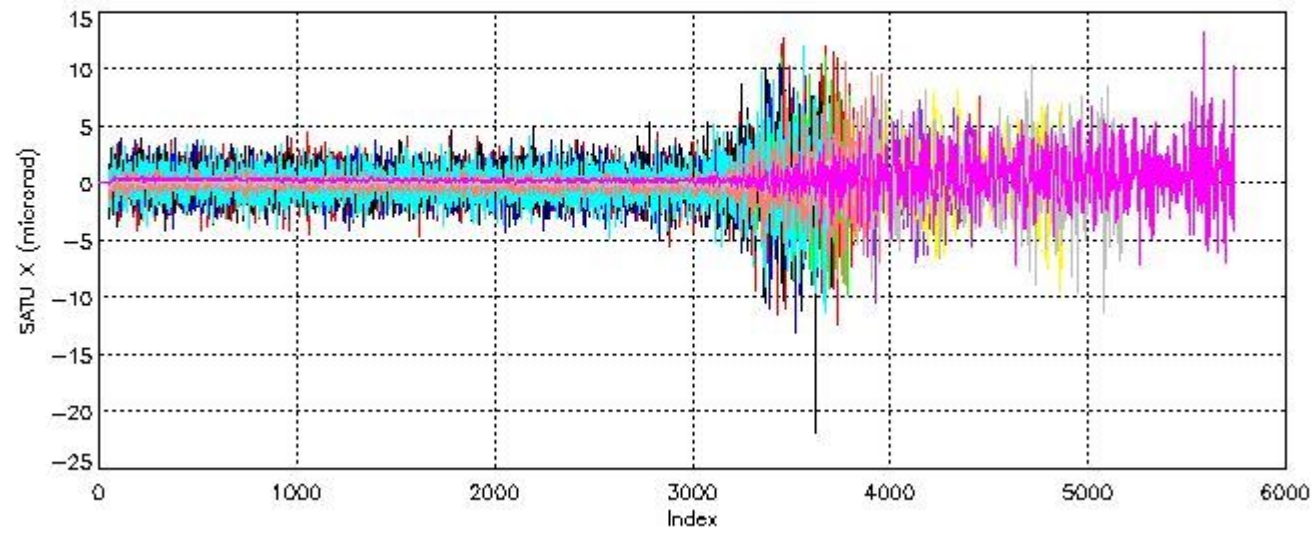


7. Star Acquisition and Tracking Unit (SATU)

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:	0.12218	-1.2726	0.054001	-1.1407
St. deviation:	0.66428	1.3039	0.85369	1.4724
Maximum:	4.0000	4.8000	6.5000	5.9000
Minimum:	-4.2000	-7.9000	-6.9000	-9.1000

Number of data:	9200.0	9200.0	26500.	26500.
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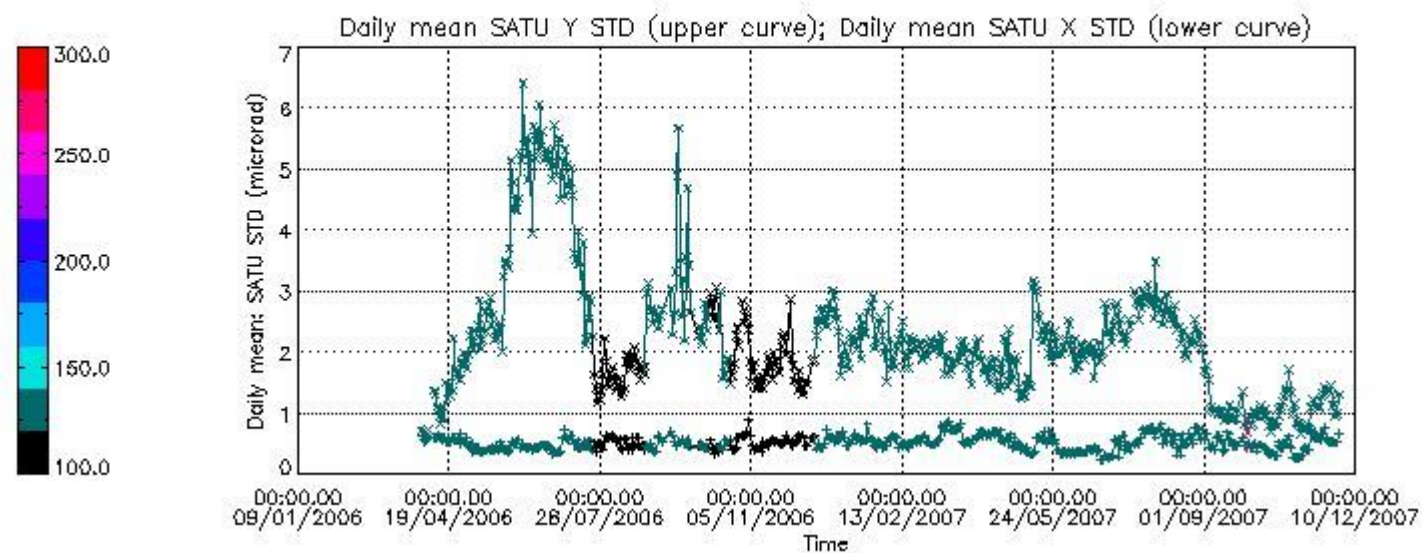
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

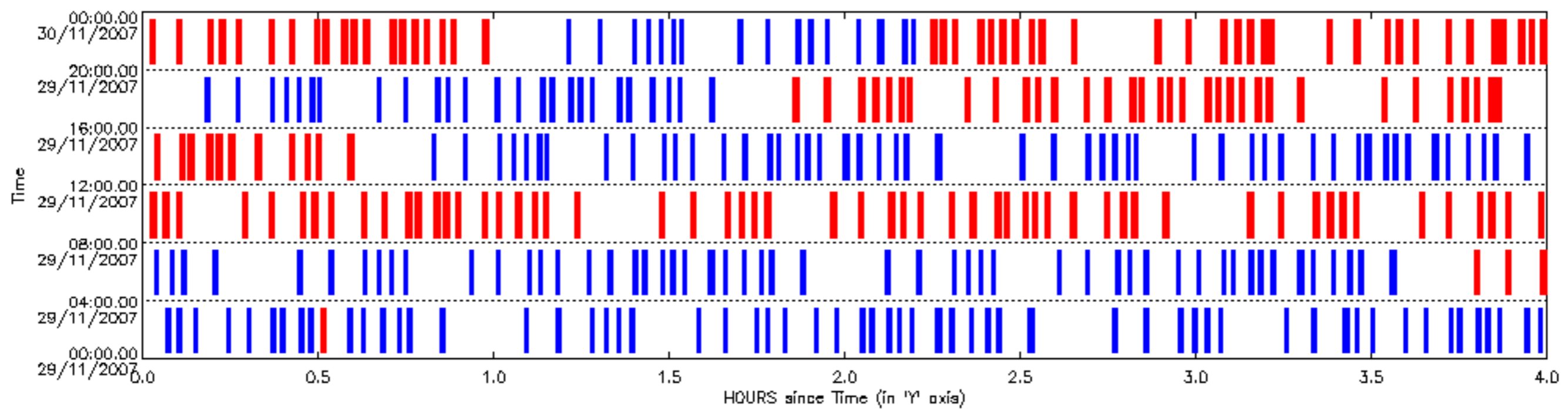
Lower curve: STD of SATU X axis

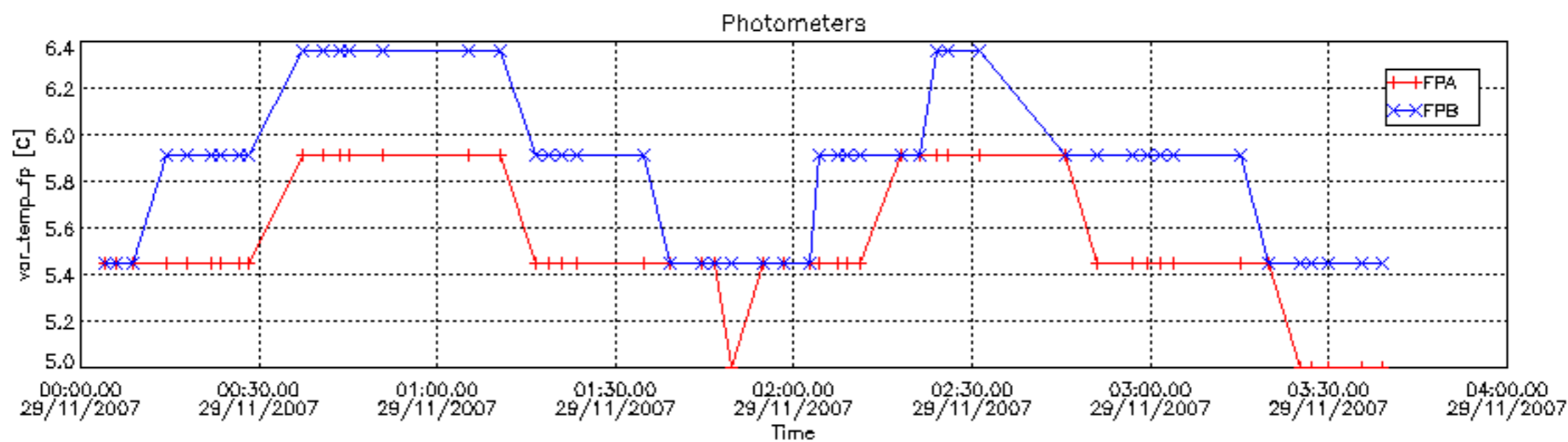
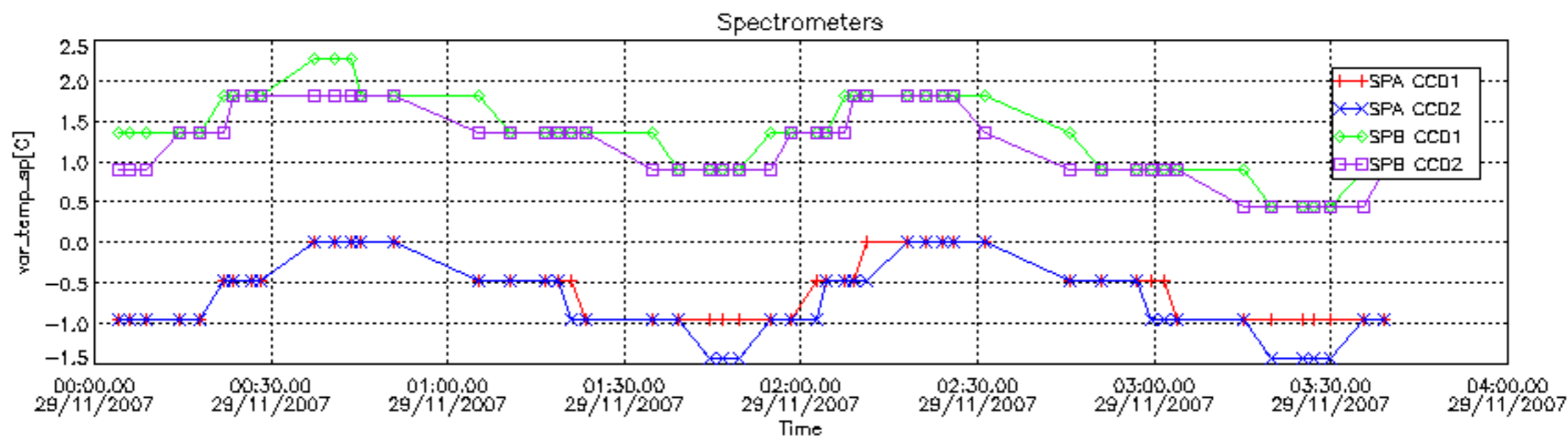


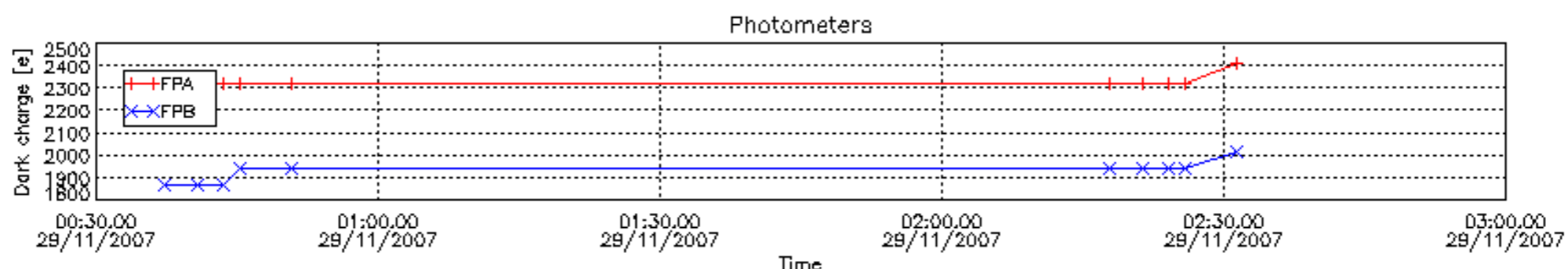
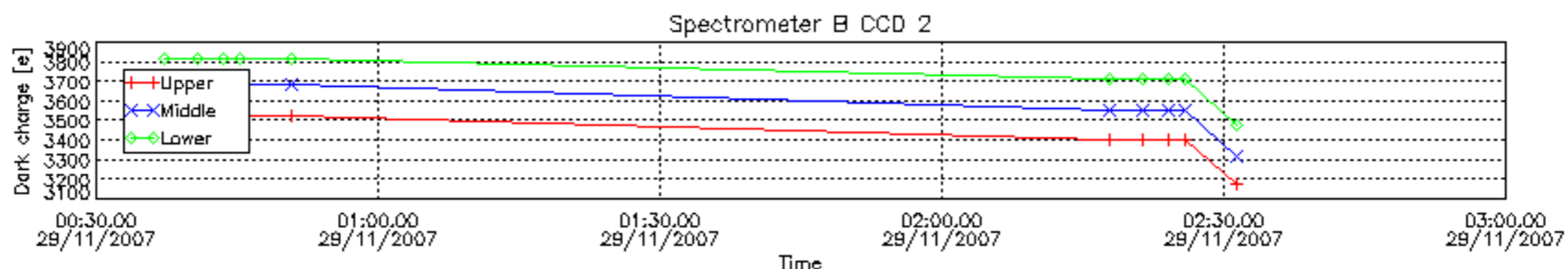
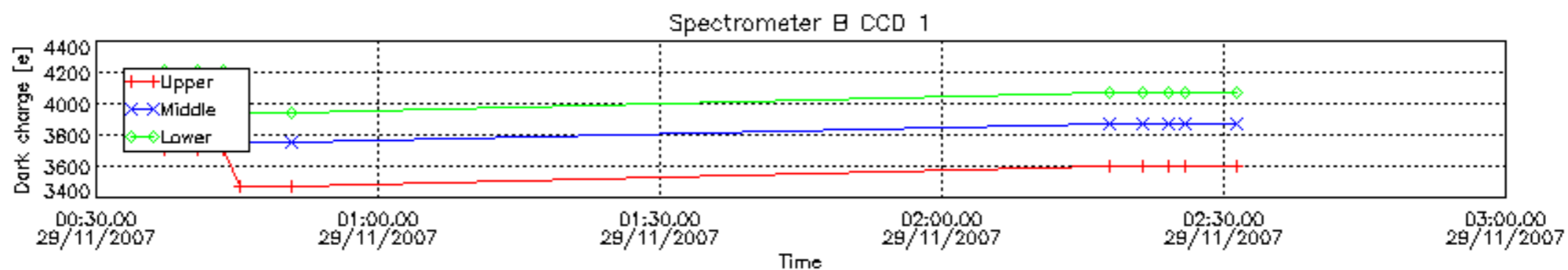
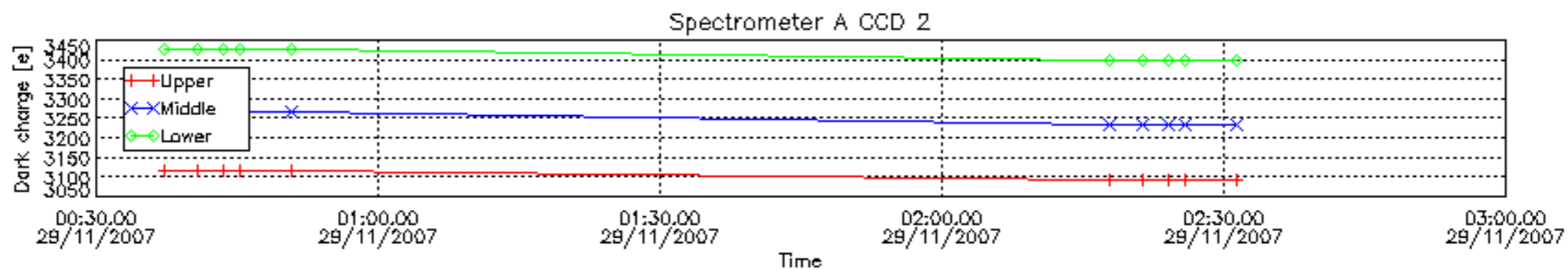
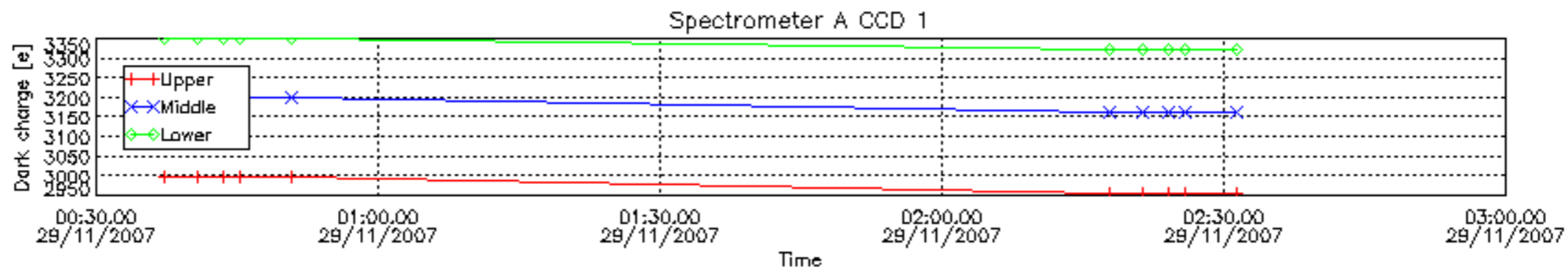
8. Auxiliary Data Files used for the production reported in section 2.4

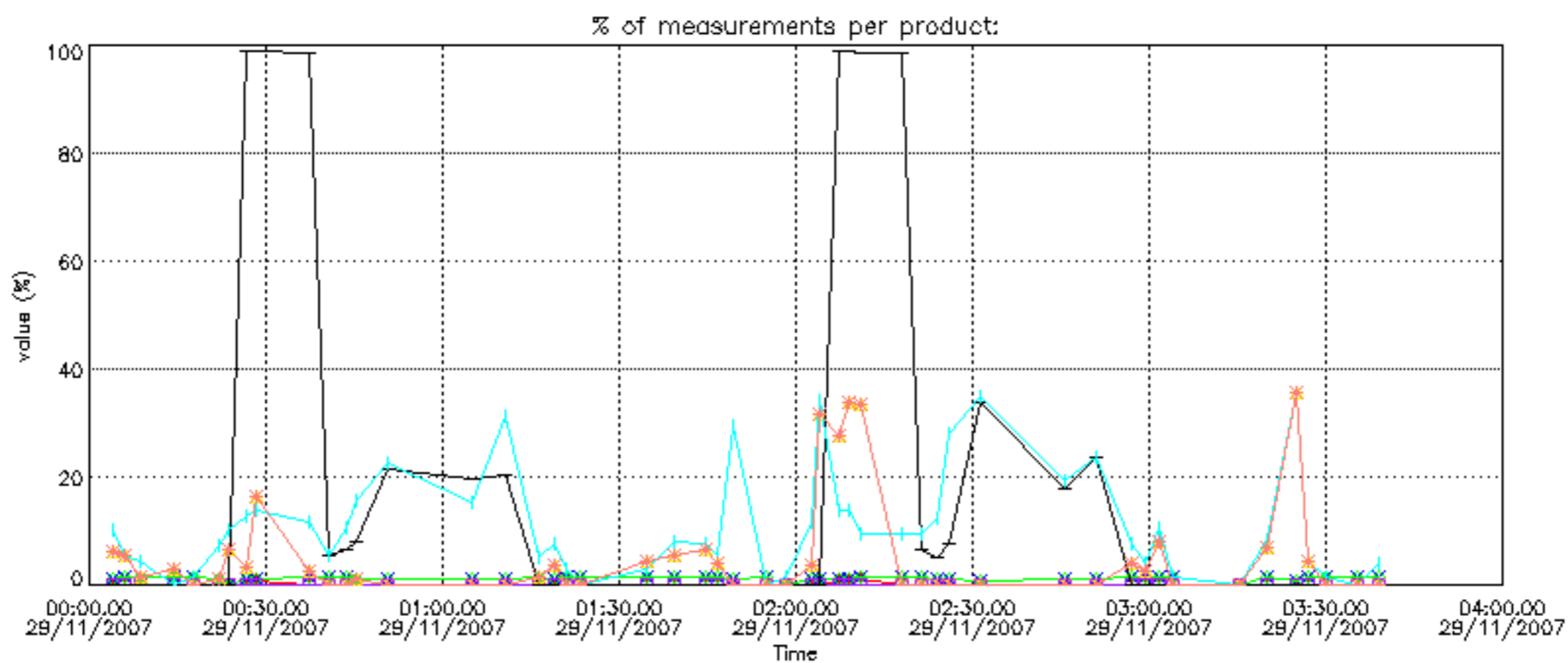
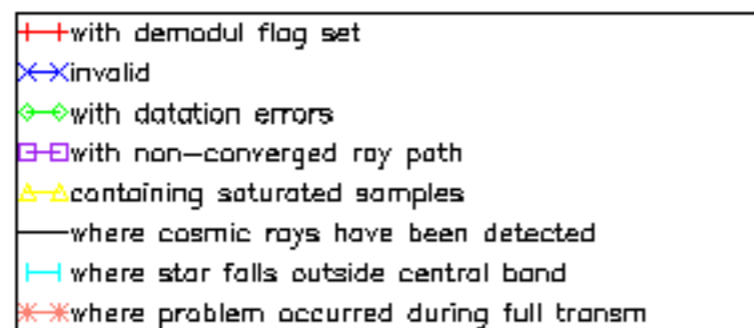
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	29-NOV-2007 00:03:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071123_091259_20071121_000000_20100101_000000	1	29-NOV-2007 00:03:55
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	29-NOV-2007 00:03:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-NOV-2007 00:03:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	29-NOV-2007 00:03:55
ECMWF_FILE	AUX_ECF_AXNECM20071128_063112_20071128_210000_20071129_090000	1	29-NOV-2007 00:03:55
ECMWF_FILE	AUX_ECF_AXNECM20071128_180113_20071129_030000_20071129_150000	45	29-NOV-2007 03:19:50
OPTIONAL_ECMWF_FILE	MISSING	1	29-NOV-2007 00:03:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071128_205710_000060572063_00429_30042_4653.N1	1	29-NOV-2007 00:03:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071128_224326_000057382063_00430_30043_4654.N1	8	29-NOV-2007 00:26:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071129_002423_000054192063_00431_30044_4655.N1	28	29-NOV-2007 02:02:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071129_020001_000041442063_00432_30045_4656.N1	45	29-NOV-2007 03:19:50

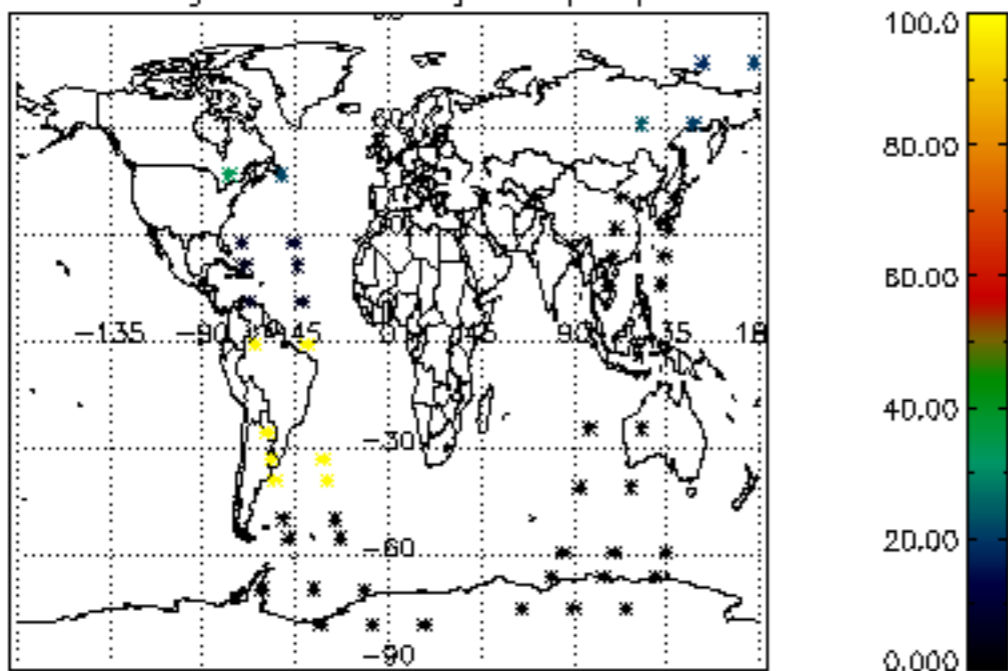




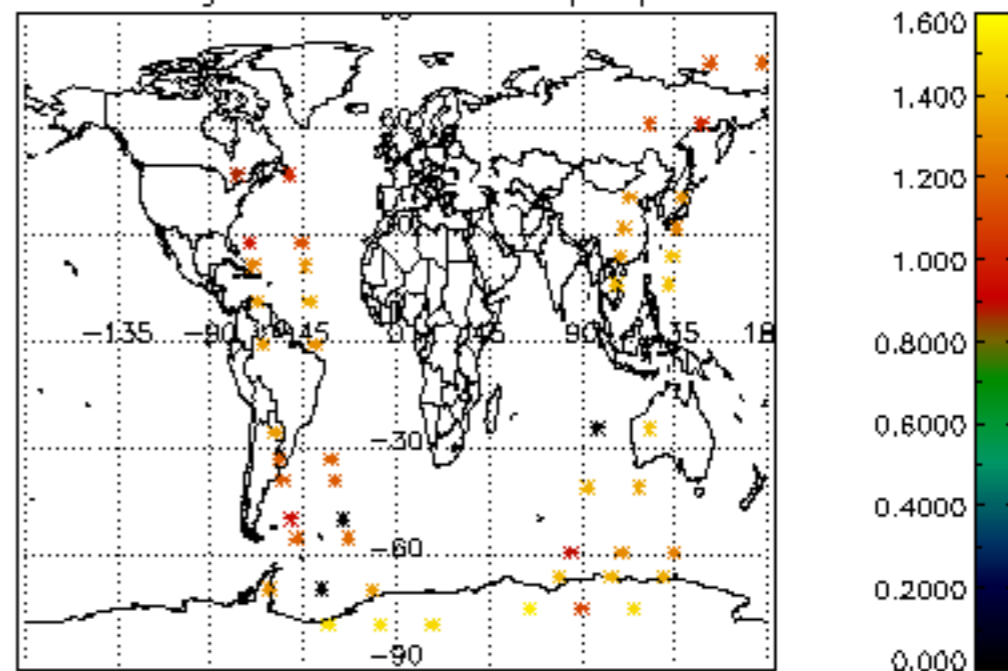




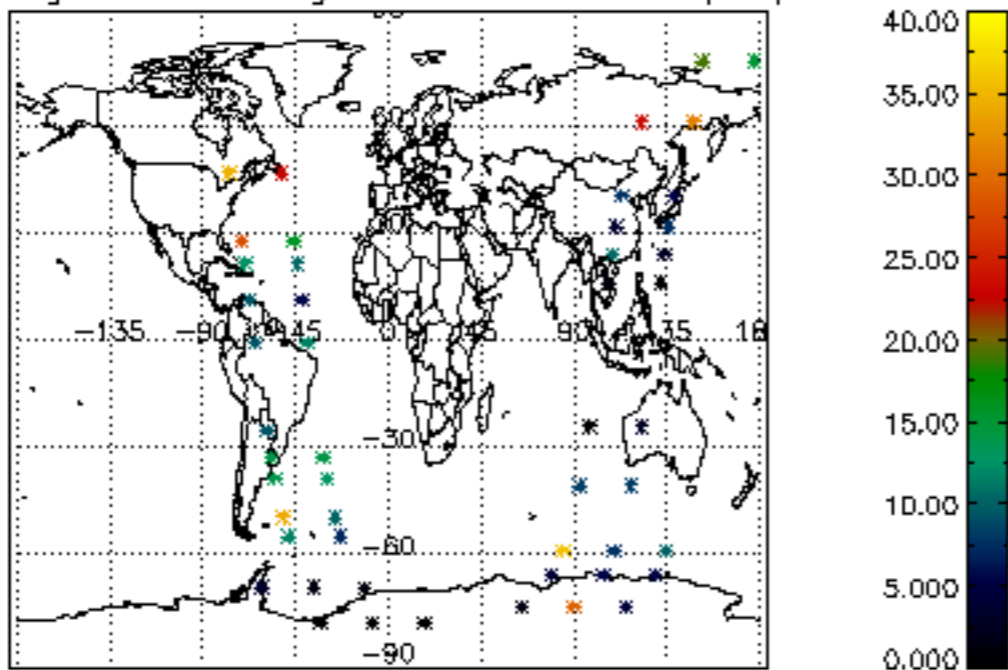
Percentage of cosmic ray hits per profile



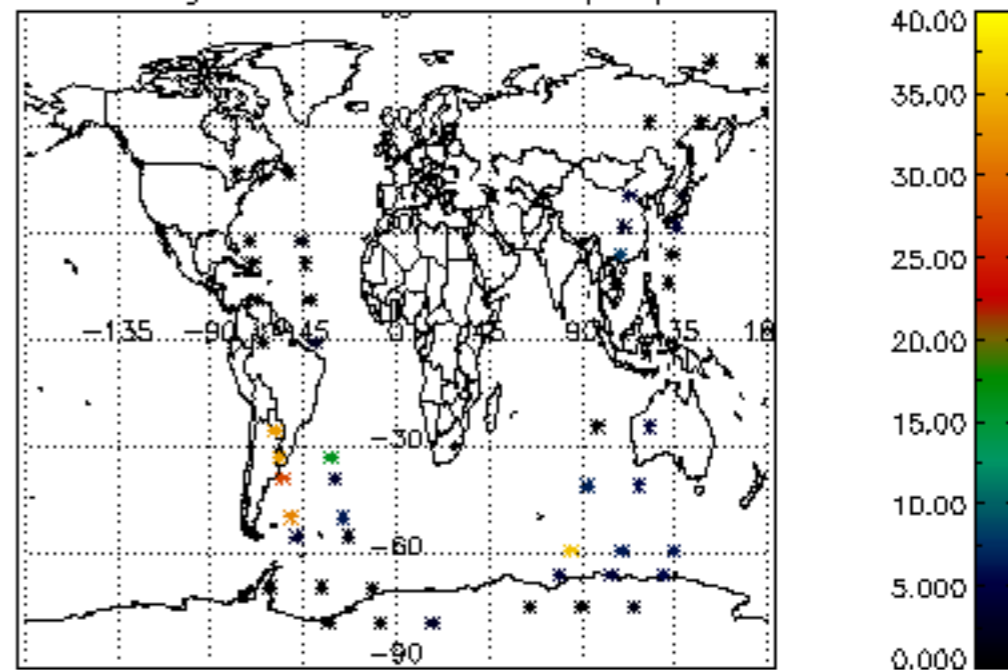
Percentage of datation errors per profile



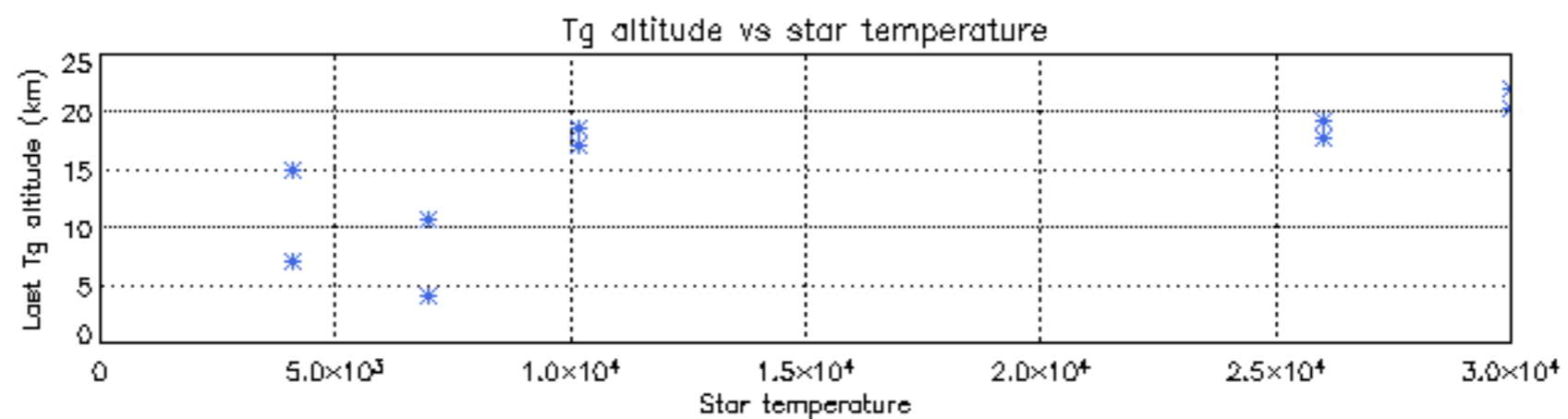
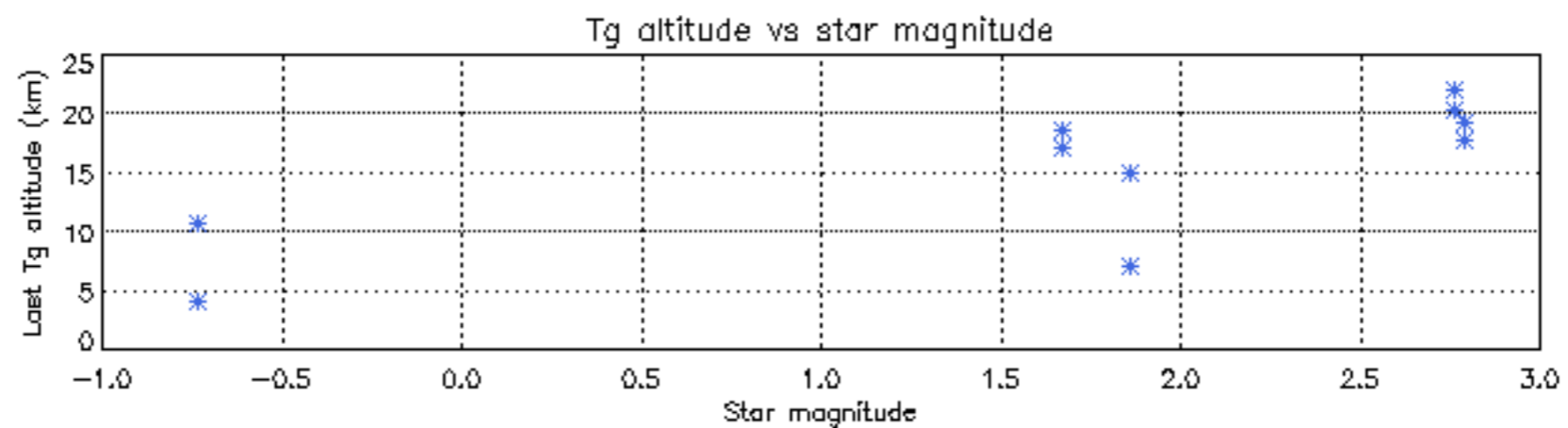
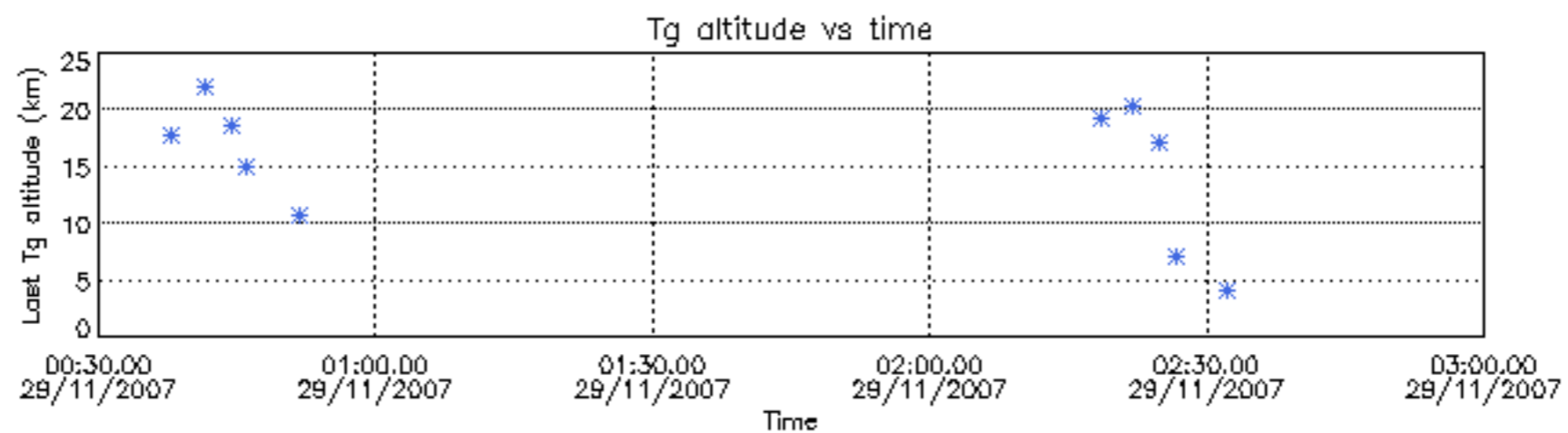
Percentage of star falling outside central band per profile



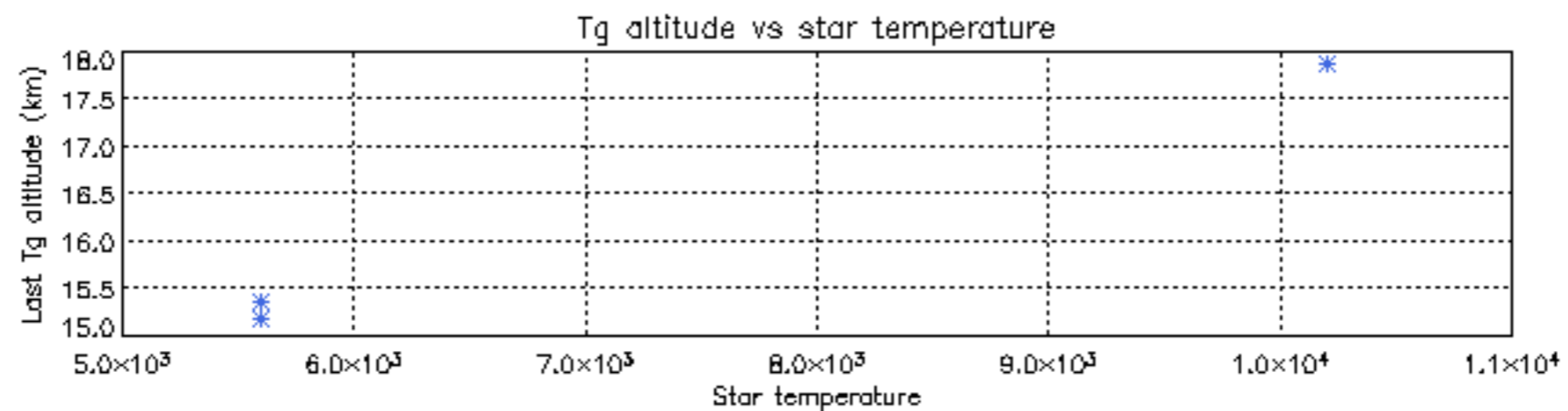
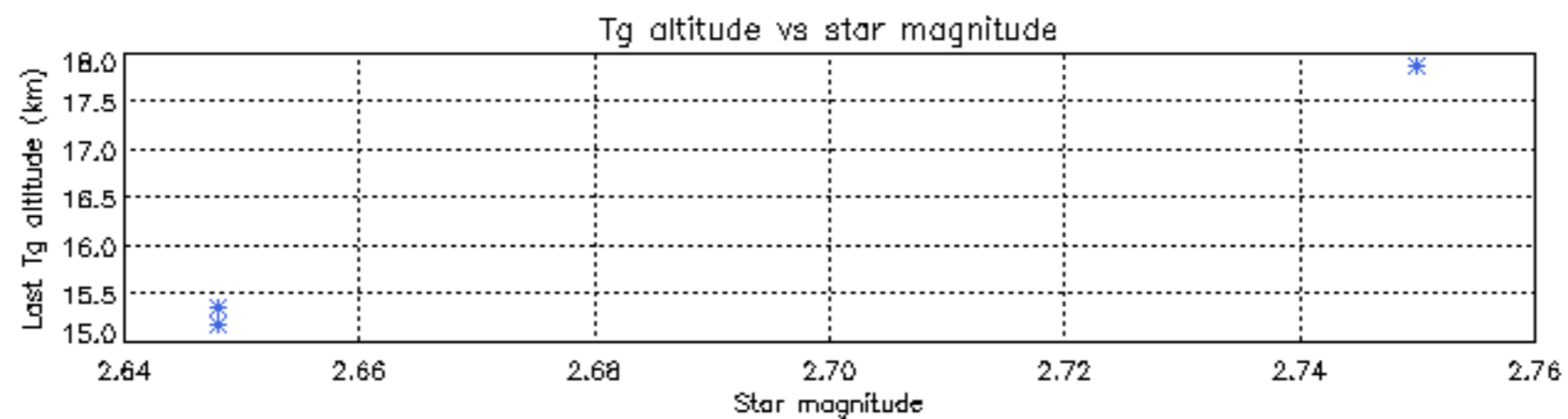
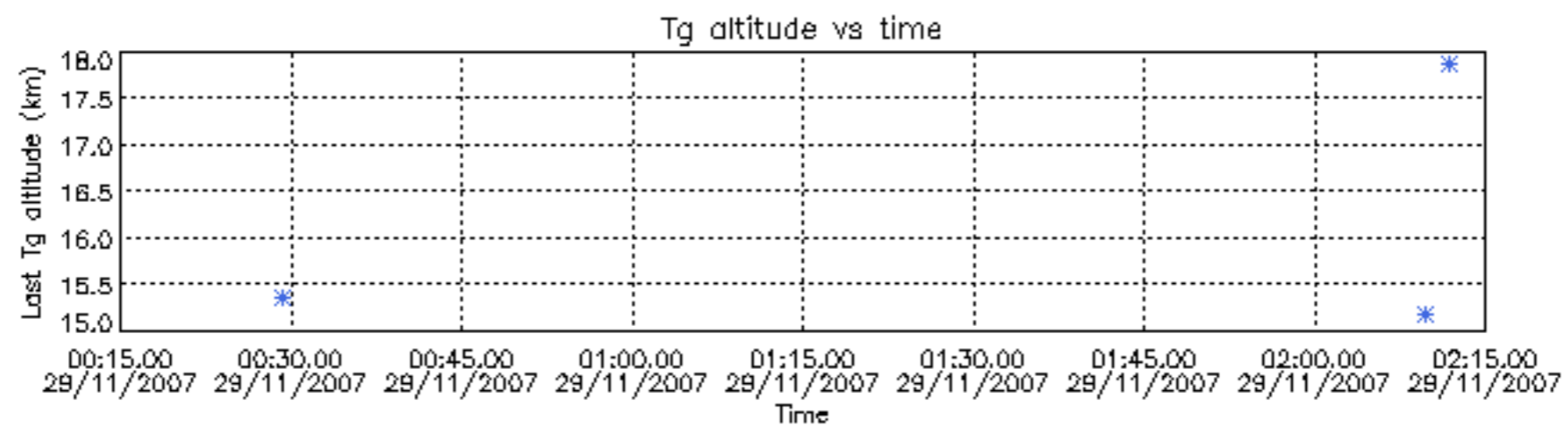
Percentage of saturation errors per profile

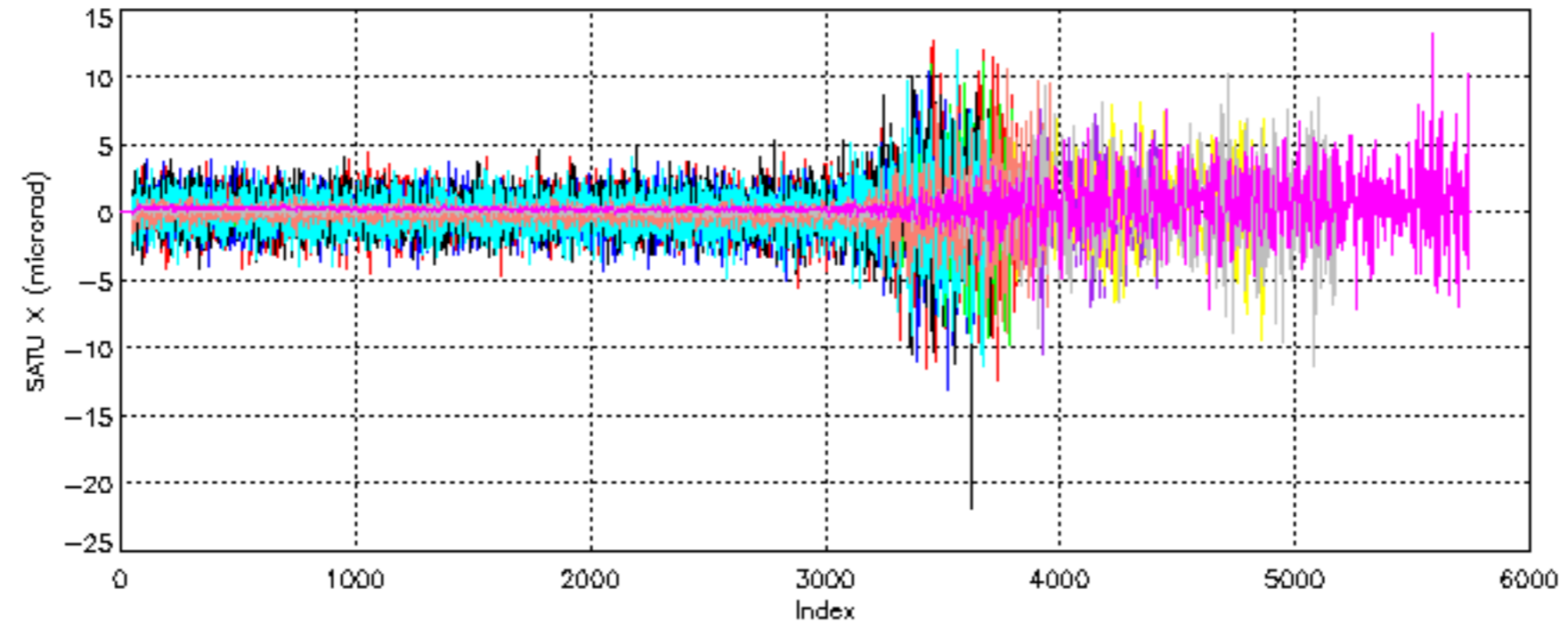


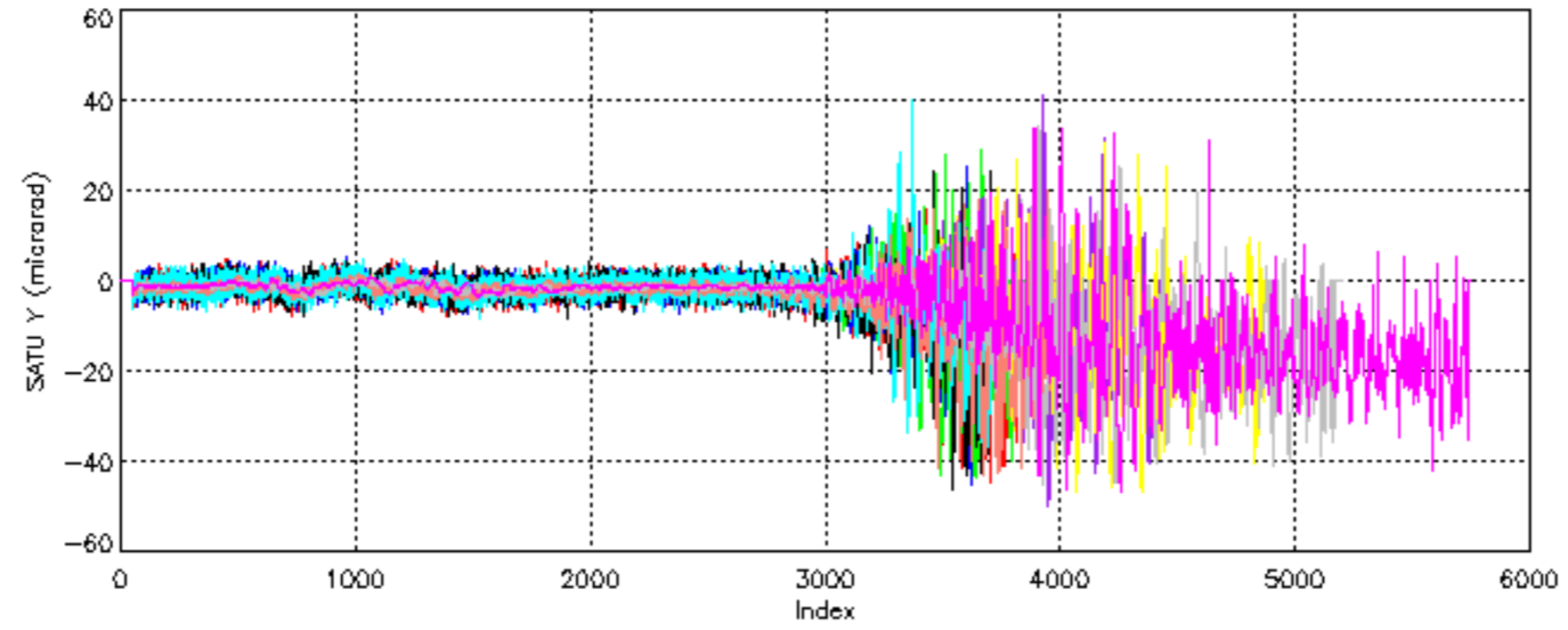
Tangent altitude at which the star is lost

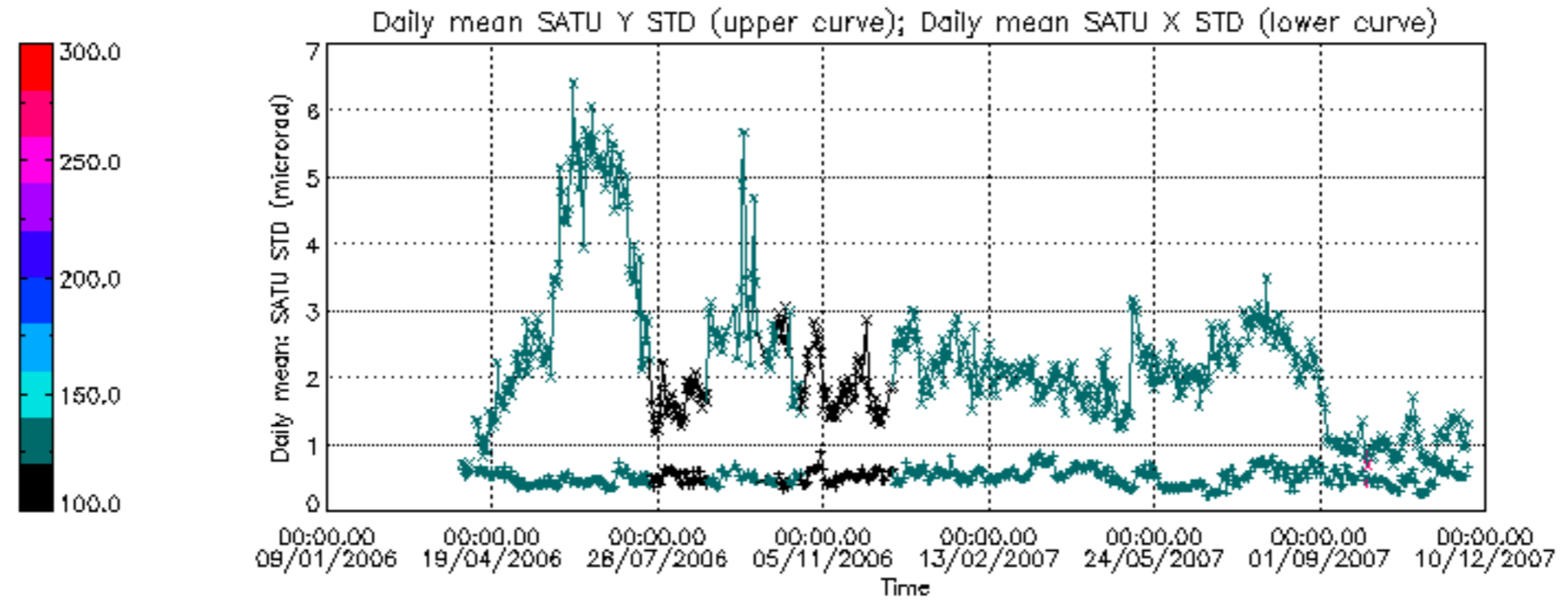


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071101_001704_000047352063_00030_29643_4652.N1

1; -25.5; 01-NOV-2007 00:17:04; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;29643
 2; 131.3; 01-NOV-2007 00:19:41; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29644
 3; 212.3; 01-NOV-2007 00:21:02; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;29644
 4; 341.2; 01-NOV-2007 00:23:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29644
 5; 519.1; 01-NOV-2007 00:26:09; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;29644
 6; 1138.9; 01-NOV-2007 00:36:29; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;29644
 7; 2274.5; 01-NOV-2007 00:55:24; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;29644
 8; 2514.8; 01-NOV-2007 00:59:25; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29644
 9; 2662.9; 01-NOV-2007 01:01:53; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;29644
 10; 2867.3; 01-NOV-2007 01:05:17; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29644
 11; 2939.0; 01-NOV-2007 01:06:29; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29644
 12; 3423.6; 01-NOV-2007 01:14:34; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29644
 13; 3912.7; 01-NOV-2007 01:22:43; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29644
 14; 4009.0; 01-NOV-2007 01:24:19; Bright; 56.0; 82; 48Bet UMa ; 2.37; 10600;occ; 112; 0;29644
 15; 4229.4; 01-NOV-2007 01:27:59; Bright; 56.0; 174; 52Psi UMa ; 3.00; 4400;occ; 112; 0;29644
 16; 4671.4; 01-NOV-2007 01:35:21; Bright; 39.0; 96; 68Del Leo ; 2.56; 9300;occ; 78; 0;29644

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071101_015741_000034812063_00031_29644_4653.N1

1; -24.7; 01-NOV-2007 01:57:41; Dark ; 44.5; 65; Lam Vel ; 2.20; 4400;occ; 89; 0;29644
 2; 131.9; 01-NOV-2007 02:00:18; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29645
 3; 213.0; 01-NOV-2007 02:01:39; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;29645
 4; 342.2; 01-NOV-2007 02:03:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29645
 5; 519.9; 01-NOV-2007 02:06:46; Dark ; 53.0; 2; Alp Car ;-0.74; 7000;occ; 106; 0;29645
 6; 1139.3; 01-NOV-2007 02:17:05; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;29645
 7; 2274.5; 01-NOV-2007 02:36:00; Bright; 38.0; 105; 6Bet Ari ; 2.64; 8900;occ; 76; 0;29645
 8; 2514.7; 01-NOV-2007 02:40:00; Bright; 35.5; 53; 43Bet And ; 2.05; 3300;occ; 71; 0;29645
 9; 2662.6; 01-NOV-2007 02:42:28; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;29645
 10; 2867.4; 01-NOV-2007 02:45:53; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29645
 11; 2938.9; 01-NOV-2007 02:47:05; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;29645
 12; 3423.6; 01-NOV-2007 02:55:09; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;29645

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071101_030318_000055802063_00032_29645_4654.N1

1;-2123.3; 01-NOV-2007 03:03:18; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29645
 2;-2026.9; 01-NOV-2007 03:04:55; Bright; 36.0; 82; 48Bet UMa ; 2.37; 10600;occ; 72; 0;29645
 3;-1806.6; 01-NOV-2007 03:08:35; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;29645
 4;-1364.1; 01-NOV-2007 03:15:58; Bright; 38.5; 96; 68Del Leo ; 2.56; 9300;occ; 77; 0;29645
 5; -23.7; 01-NOV-2007 03:38:18; Dark ; 52.5; 65; Lam Vel ; 2.20; 4400;occ; 105; 0;29645
 6; 132.7; 01-NOV-2007 03:40:54; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;29646
 7; 213.6; 01-NOV-2007 03:42:15; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;29646
 8; 343.1; 01-NOV-2007 03:44:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29646
 9; 520.8; 01-NOV-2007 03:47:22; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;29646
 10; 1139.7; 01-NOV-2007 03:57:41; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;29646
 11; 2274.3; 01-NOV-2007 04:16:36; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;29646
 12; 2514.8; 01-NOV-2007 04:20:36; Bright; 36.5; 53; 43Bet And ; 2.05; 3300;occ; 73; 0;29646
 13; 2662.4; 01-NOV-2007 04:23:04; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;29646
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 6; 151.4; 22-NOV-2007 22:48:00; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;29958

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