

GOMOS Daily Report 01-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	02NOV2007 10:34:51
Data source version	GOMOS/5.00
Start time of products	01-NOV-2007 (01NOV2007 00:00:00)
Stop time of products	02-NOV-2007 (02NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	86
Nb of prods with errors	0

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

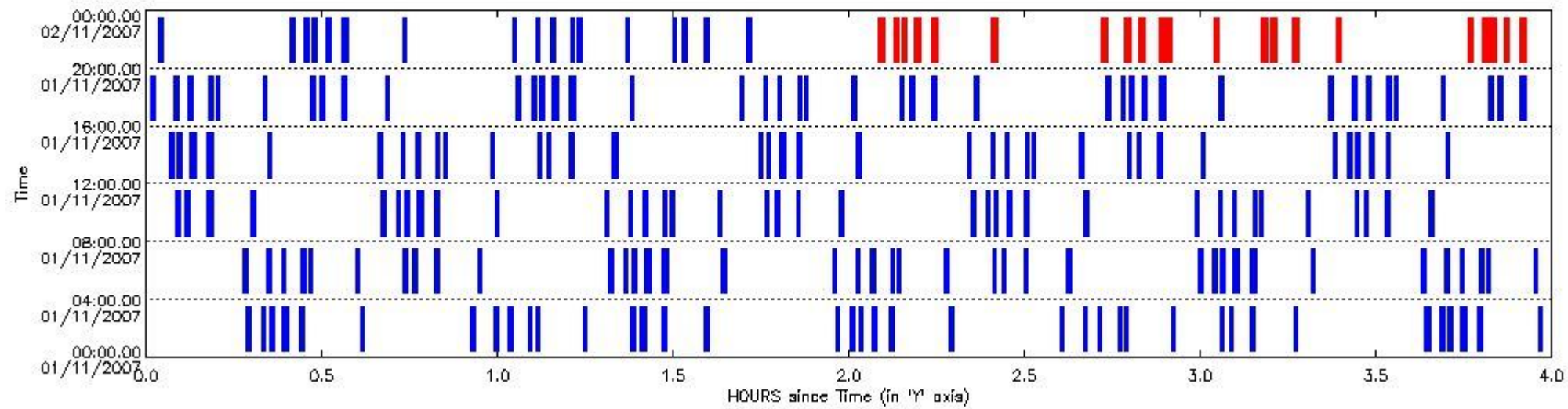
2.1 Level 0 products arrived in PCF (see template [here](#))

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
01-NOV-2007 22:05:00	LamVel	65	29656
01-NOV-2007 22:07:34	DelVel	46	29657
01-NOV-2007 22:08:54	EpsCar	41	29657
01-NOV-2007 22:11:08	DSA1055	0	29657
01-NOV-2007 22:14:03	AlpCar	2	29657
01-NOV-2007 22:24:18	The1Eri	157	29657
01-NOV-2007 22:43:07	6BetAri	105	29657
01-NOV-2007 22:47:09	43BetAnd	53	29657
01-NOV-2007 22:49:33	57Gam1And	73	29657
01-NOV-2007 22:53:02	18AlpCas	68	29657
01-NOV-2007 22:54:13	27GamCas	76	29657
01-NOV-2007 23:02:18	1AlpUMi	49	29657
01-NOV-2007 23:10:26	50AlpUMa	36	29657
01-NOV-2007 23:12:02	48BetUMa	82	29657
01-NOV-2007 23:15:44	52PsiUMa	174	29657

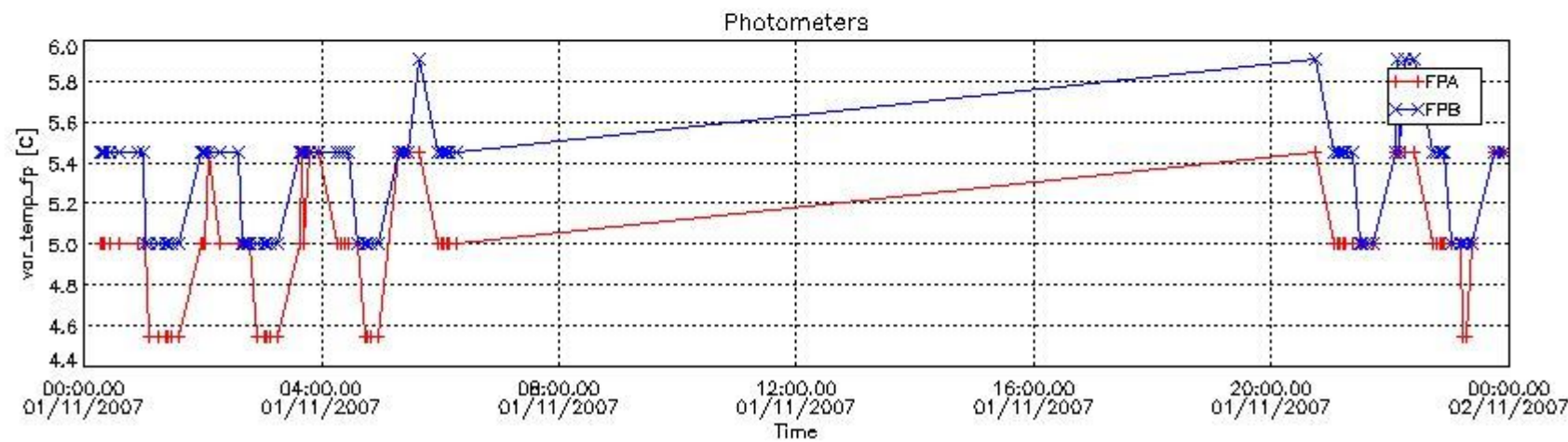
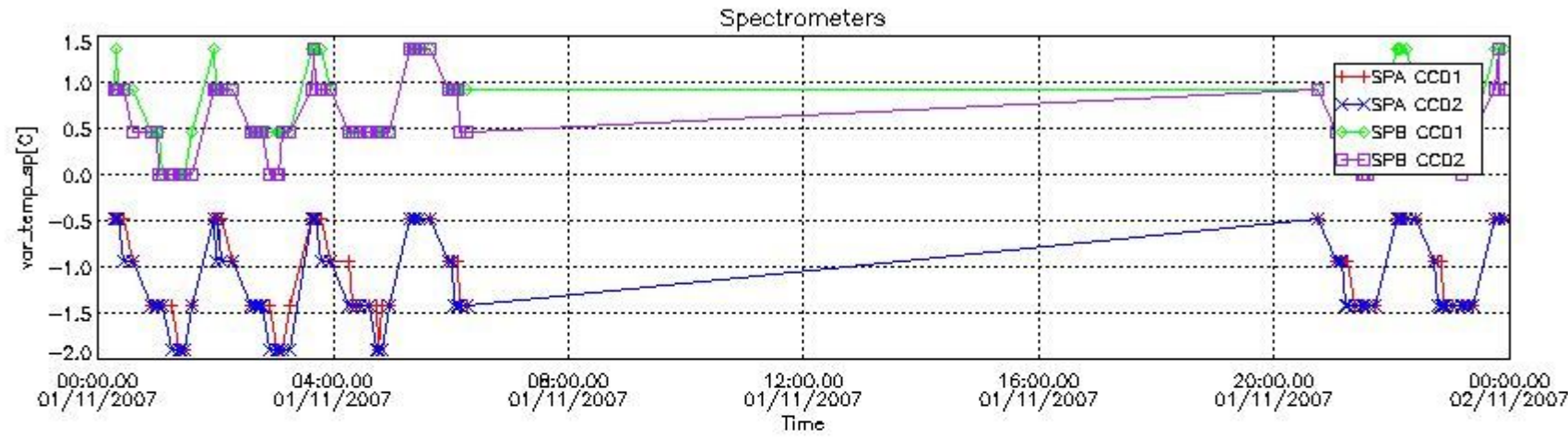
01-NOV-2007 23:23:09	68DelLeo	96	29657
01-NOV-2007 23:45:37	LamVel	65	29657
01-NOV-2007 23:48:11	DelVel	46	29658
01-NOV-2007 23:49:31	EpsCar	41	29658
01-NOV-2007 23:51:45	DSA1055	0	29658
01-NOV-2007 23:54:40	AlpCar	2	29658

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_1PNPDE20071101_001704_000000492063_00030_29643_9497.N1	01-NOV-2007 00:17:04	Dark	48.500	65	Lam Vel	2.2040	4400.0	97	29643	No
2	GOM_TRA_1PNPDE20071101_001941_000000412063_00031_29644_9498.N1	01-NOV-2007 00:19:41	Dark	41.000	46	Del Vel	1.9540	10600.	82	29644	No
3	GOM_TRA_1PNPDE20071101_002102_000000472063_00031_29644_9499.N1	01-NOV-2007 00:21:02	Dark	46.500	41	Eps Car	1.8600	4100.0	93	29644	No
4	GOM_TRA_1PNPDE20071101_002609_000000502063_00031_29644_9500.N1	01-NOV-2007 00:26:09	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	29644	No
5	GOM_TRA_1PNPDE20071101_003629_000000402063_00031_29644_9501.N1	01-NOV-2007 00:36:29	Straylight	39.500	157	The1Eri	2.9060	9300.0	79	29644	No
6	GOM_TRA_1PNPDE20071101_005524_000000402063_00031_29644_9502.N1	01-NOV-2007 00:55:24	Bright	40.000	105	6Bet Ari	2.6450	8900.0	80	29644	No
7	GOM_TRA_1PNPDE20071101_005925_000000382063_00031_29644_9503.N1	01-NOV-2007 00:59:25	Bright	38.000	53	43Bet And	2.0480	3300.0	76	29644	No
8	GOM_TRA_1PNPDE20071101_010153_000000392063_00031_29644_9504.N1	01-NOV-2007 01:01:53	Bright	38.500	73	57Gam1And	2.2600	13100.	77	29644	No
9	GOM_TRA_1PNPDE20071101_010517_000000362063_00031_29644_9505.N1	01-NOV-2007 01:05:17	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	29644	No
10	GOM_TRA_1PNPDE20071101_010629_000000362063_00031_29644_9506.N1	01-NOV-2007 01:06:29	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29644	No
11	GOM_TRA_1PNPDE20071101_011434_000000362063_00031_29644_9507.N1	01-NOV-2007 01:14:34	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29644	No
12	GOM_TRA_1PNPDE20071101_012243_000000382063_00031_29644_9508.N1	01-NOV-2007 01:22:43	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	29644	No
13	GOM_TRA_1PNPDE20071101_012419_000000562063_00031_29644_9509.N1	01-NOV-2007 01:24:19	Bright	56.000	82	48Bet UMa	2.3650	10600.	112	29644	No
14	GOM_TRA_1PNPDE20071101_012759_000000562063_00031_29644_9510.N1	01-NOV-2007 01:27:59	Bright	56.000	174	52Psi UMa	3.0040	4400.0	112	29644	No
15	GOM_TRA_1PNPDE20071101_013521_000000392063_00031_29644_9511.N1	01-NOV-2007 01:35:21	Bright	39.000	96	68Del Leo	2.5600	9300.0	78	29644	No
16	GOM_TRA_1PNPDE20071101_015741_000000452063_00031_29644_9647.N1	01-NOV-2007 01:57:41	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	29644	No
17	GOM_TRA_1PNPDE20071101_020018_000000412063_00032_29645_9648.N1	01-NOV-2007 02:00:18	Dark	41.000	46	Del Vel	1.9540	10600.	82	29645	No
18	GOM_TRA_1PNPDE20071101_020139_000000422063_00032_29645_9649.N1	01-NOV-2007 02:01:39	Dark	42.000	41	Eps Car	1.8600	4100.0	84	29645	No
19	GOM_TRA_1PNPDE20071101_020646_000000532063_00032_29645_9650.N1	01-NOV-2007 02:06:46	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	29645	No
20	GOM_TRA_1PNPDE20071101_021705_000000412063_00032_29645_9651.N1	01-NOV-2007 02:17:05	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	29645	No
21	GOM_TRA_1PNPDE20071101_023600_000000382063_00032_29645_9652.N1	01-NOV-2007 02:36:00	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	29645	No
22	GOM_TRA_1PNPDE20071101_024000_000000362063_00032_29645_9653.N1	01-NOV-2007 02:40:00	Bright	35.500	53	43Bet And	2.0480	3300.0	71	29645	No
23	GOM_TRA_1PNPDE20071101_024228_000000402063_00032_29645_9654.N1	01-NOV-2007 02:42:28	Bright	40.000	73	57Gam1And	2.2600	13100.	80	29645	No
24	GOM_TRA_1PNPDE20071101_024553_000000362063_00032_29645_9655.N1	01-NOV-2007 02:45:53	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	29645	No
25	GOM_TRA_1PNPDE20071101_024705_000000352063_00032_29645_9656.N1	01-NOV-2007 02:47:05	Bright	34.500	76	27Gam Cas	2.3000	30000.	69	29645	No
26	GOM_TRA_1PNPDE20071101_025509_000000342063_00032_29645_9657.N1	01-NOV-2007 02:55:09	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	29645	No
27	GOM_TRA_1PNPDE20071101_030318_000000392063_00032_29645_9763.N1	01-NOV-2007 03:03:18	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	29645	No
28	GOM_TRA_1PNPDE20071101_030455_000000362063_00032_29645_9764.N1	01-NOV-2007 03:04:55	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	29645	No
29	GOM_TRA_1PNPDE20071101_030835_000000382063_00032_29645_9765.N1	01-NOV-2007 03:08:35	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	29645	No
30	GOM_TRA_1PNPDE20071101_031558_000000392063_00032_29645_9766.N1	01-NOV-2007 03:15:58	Bright	38.500	96	68Del Leo	2.5600	9300.0	77	29645	No
31	GOM_TRA_1PNPDE20071101_033818_000000532063_00032_29645_9767.N1	01-NOV-2007 03:38:18	Dark	52.500	65	Lam Vel	2.2040	4400.0	105	29645	No
32	GOM_TRA_1PNPDE20071101_034054_000000432063_00033_29646_9768.N1	01-NOV-2007 03:40:54	Dark	42.500	46	Del Vel	1.9540	10600.	85	29646	No
33	GOM_TRA_1PNPDE20071101_034215_000000412063_00033_29646_9769.N1	01-NOV-2007 03:42:15	Dark	41.000	41	Eps Car	1.8600	4100.0	82	29646	No
34	GOM_TRA_1PNPDE20071101_034722_000000492063_00033_29646_9770.N1	01-NOV-2007 03:47:22	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	29646	No
35	GOM_TRA_1PNPDE20071101_035741_000000412063_00033_29646_9771.N1	01-NOV-2007 03:57:41	Straylight	41.000	157	The1Eri	2.9060	9300.0	82	29646	No
36	GOM_TRA_1PNPDE20071101_041636_000000392063_00033_29646_9772.N1	01-NOV-2007 04:16:36	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	29646	No
37	GOM_TRA_1PNPDE20071101_042036_000000372063_00033_29646_9773.N1	01-NOV-2007 04:20:36	Bright	36.500	53	43Bet And	2.0480	3300.0	73	29646	No
38	GOM_TRA_1PNPDE20071101_042304_000000412063_00033_29646_9774.N1	01-NOV-2007 04:23:04	Bright	40.500	73	57Gam1And	2.2600	13100.	81	29646	No
39	GOM_TRA_1PNPDE20071101_042629_000000372063_00033_29646_9775.N1	01-NOV-2007 04:26:29	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	29646	No
40	GOM_TRA_1PNPDE20071101_042741_000000362063_00033_29646_9776.N1	01-NOV-2007 04:27:41	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29646	No
41	GOM_TRA_1PNPDE20071101_043545_000000332063_00033_29646_9777.N1	01-NOV-2007 04:35:45	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	29646	No
42	GOM_TRA_1PNPDE20071101_044354_000000402063_00033_29646_9975.N1	01-NOV-2007 04:43:54	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	29646	No
43	GOM_TRA_1PNPDE20071101_044531_000000432063_00033_29646_9976.N1	01-NOV-2007 04:45:31	Bright	43.000	82	48Bet UMa	2.3650	10600.	86	29646	No
44	GOM_TRA_1PNPDE20071101_044911_000000562063_00033_29646_9977.N1	01-NOV-2007 04:49:11	Bright	56.000	174	52Psi UMa	3.0040	4400.0	112	29646	No
45	GOM_TRA_1PNPDE20071101_045634_000000422063_00033_29646_9978.N1	01-NOV-2007 04:56:34	Bright	42.000	96	68Del Leo	2.5600	9300.0	84	29646	No
46	GOM_TRA_1PNPDE20071101_051855_000000492063_00033_29646_9979.N1	01-NOV-2007 05:18:55	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	29646	No
47	GOM_TRA_1PNPDE20071101_052131_000000452063_00034_29647_9980.N1	01-NOV-2007 05:21:31	Dark	45.000	46	Del Vel	1.9540	10600.	90	29647	No
48	GOM_TRA_1PNPDE20071101_052252_000000512063_00034_29647_9981.N1	01-NOV-2007 05:22:52	Dark	50.500	41	Eps Car	1.8600	4100.0	101	29647	No

49	GOM_TRA_1PNPDE20071101_052759_000000632063_00034_29647_9982.N1	01-NOV-2007 05:27:59	Dark	63.000	2	Alp Car	-0.73600	7000.0	126	29647	No
50	GOM_TRA_1PNPDE20071101_053818_000000382063_00034_29647_9983.N1	01-NOV-2007 05:38:18	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	29647	No
51	GOM_TRA_1PNPDE20071101_055712_000000382063_00034_29647_9984.N1	01-NOV-2007 05:57:12	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	29647	No
52	GOM_TRA_1PNPDE20071101_060112_000000402063_00034_29647_9985.N1	01-NOV-2007 06:01:12	Bright	39.500	53	43Bet And	2.0480	3300.0	79	29647	No
53	GOM_TRA_1PNPDE20071101_060340_000000412063_00034_29647_9986.N1	01-NOV-2007 06:03:40	Bright	40.500	73	57Gam1And	2.2600	13100.	81	29647	No
54	GOM_TRA_1PNPDE20071101_060705_000000362063_00034_29647_9987.N1	01-NOV-2007 06:07:05	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	29647	No
55	GOM_TRA_1PNPDE20071101_060817_000000362063_00034_29647_9988.N1	01-NOV-2007 06:08:17	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29647	No
56	GOM_TRA_1PNPDE20071101_061621_000000362063_00034_29647_9989.N1	01-NOV-2007 06:16:21	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29647	No
57	GOM_TRA_1PNPDE20071101_204344_000000412063_00043_29656_0384.N1	01-NOV-2007 20:43:44	Straylight	41.000	157	The1Eri	2.9060	9300.0	82	29656	No
58	GOM_TRA_1PNPDE20071101_210234_000000392063_00043_29656_0385.N1	01-NOV-2007 21:02:34	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	29656	No
59	GOM_TRA_1PNPDE20071101_210636_000000372063_00043_29656_0386.N1	01-NOV-2007 21:06:36	Bright	37.000	53	43Bet And	2.0480	3300.0	74	29656	No
60	GOM_TRA_1PNPDE20071101_210901_000000402063_00043_29656_0387.N1	01-NOV-2007 21:09:01	Bright	40.000	73	57Gam1And	2.2600	13100.	80	29656	No
61	GOM_TRA_1PNPDE20071101_211229_000000372063_00043_29656_0388.N1	01-NOV-2007 21:12:29	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	29656	No
62	GOM_TRA_1PNPDE20071101_211340_000000372063_00043_29656_0389.N1	01-NOV-2007 21:13:40	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	29656	No
63	GOM_TRA_1PNPDE20071101_212145_000000372063_00043_29656_0390.N1	01-NOV-2007 21:21:45	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	29656	No
64	GOM_TRA_1PNPDE20071101_212953_000000402063_00043_29656_0391.N1	01-NOV-2007 21:29:53	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	29656	No
65	GOM_TRA_1PNPDE20071101_213129_000000562063_00043_29656_0392.N1	01-NOV-2007 21:31:29	Bright	56.000	82	48Bet UMa	2.3650	10600.	112	29656	No
66	GOM_TRA_1PNPDE20071101_213511_000000572063_00043_29656_0393.N1	01-NOV-2007 21:35:11	Bright	57.000	174	52Psi UMa	3.0040	4400.0	114	29656	No
67	GOM_TRA_1PNPDE20071101_214236_000000382063_00043_29656_0394.N1	01-NOV-2007 21:42:36	Bright	38.000	96	68Del Leo	2.5600	9300.0	76	29656	No
68	GOM_TRA_1PNPDE20071101_220503_000000492063_00043_29656_0523.N1	01-NOV-2007 22:05:03	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	29656	No
69	GOM_TRA_1PNPDE20071101_220737_000000432063_00044_29657_0524.N1	01-NOV-2007 22:07:37	Dark	42.500	46	Del Vel	1.9540	10600.	85	29657	No
70	GOM_TRA_1PNPDE20071101_220857_000000422063_00044_29657_0525.N1	01-NOV-2007 22:08:57	Dark	42.000	41	Eps Car	1.8600	4100.0	84	29657	No
71	GOM_TRA_1PNPDE20071101_221406_000000612063_00044_29657_0526.N1	01-NOV-2007 22:14:06	Dark	61.000	2	Alp Car	-0.73600	7000.0	122	29657	No
72	GOM_TRA_1PNPDE20071101_222420_000000402063_00044_29657_0527.N1	01-NOV-2007 22:24:20	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	29657	No
73	GOM_TRA_1PNPDE20071101_224310_000000382063_00044_29657_0528.N1	01-NOV-2007 22:43:10	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	29657	No
74	GOM_TRA_1PNPDE20071101_224711_000000372063_00044_29657_0529.N1	01-NOV-2007 22:47:11	Bright	36.500	53	43Bet And	2.0480	3300.0	73	29657	No
75	GOM_TRA_1PNPDE20071101_224936_000000372063_00044_29657_0530.N1	01-NOV-2007 22:49:36	Bright	36.500	73	57Gam1And	2.2600	13100.	73	29657	No
76	GOM_TRA_1PNPDE20071101_225305_000000372063_00044_29657_0531.N1	01-NOV-2007 22:53:05	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	29657	No
77	GOM_TRA_1PNPDE20071101_225416_000000352063_00044_29657_0532.N1	01-NOV-2007 22:54:16	Bright	35.000	76	27Gam Cas	2.3000	30000.	70	29657	No
78	GOM_TRA_1PNPDE20071101_230221_000000332063_00044_29657_0533.N1	01-NOV-2007 23:02:21	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	29657	No
79	GOM_TRA_1PNPDE20071101_231029_000000362063_00044_29657_0534.N1	01-NOV-2007 23:10:29	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	29657	No
80	GOM_TRA_1PNPDE20071101_231205_000000372063_00044_29657_0535.N1	01-NOV-2007 23:12:05	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	29657	No
81	GOM_TRA_1PNPDE20071101_231547_000000572063_00044_29657_0536.N1	01-NOV-2007 23:15:47	Bright	57.000	174	52Psi UMa	3.0040	4400.0	114	29657	No
82	GOM_TRA_1PNPDE20071101_232312_000000382063_00044_29657_0537.N1	01-NOV-2007 23:23:12	Bright	38.000	96	68Del Leo	2.5600	9300.0	76	29657	No
83	GOM_TRA_1PNPDE20071101_234539_000000592063_00044_29657_0687.N1	01-NOV-2007 23:45:39	Dark	58.500	65	Lam Vel	2.2040	4400.0	117	29657	No
84	GOM_TRA_1PNPDE20071101_234813_000000422063_00045_29658_0688.N1	01-NOV-2007 23:48:13	Dark	41.500	46	Del Vel	1.9540	10600.	83	29658	No
85	GOM_TRA_1PNPDE20071101_234934_000000452063_00045_29658_0689.N1	01-NOV-2007 23:49:34	Dark	44.500	41	Eps Car	1.8600	4100.0	89	29658	No
86	GOM_TRA_1PNPDE20071101_235443_000000502063_00045_29658_0690.N1	01-NOV-2007 23:54:43	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	29658	No

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



4. Overview of dark signal processing per product

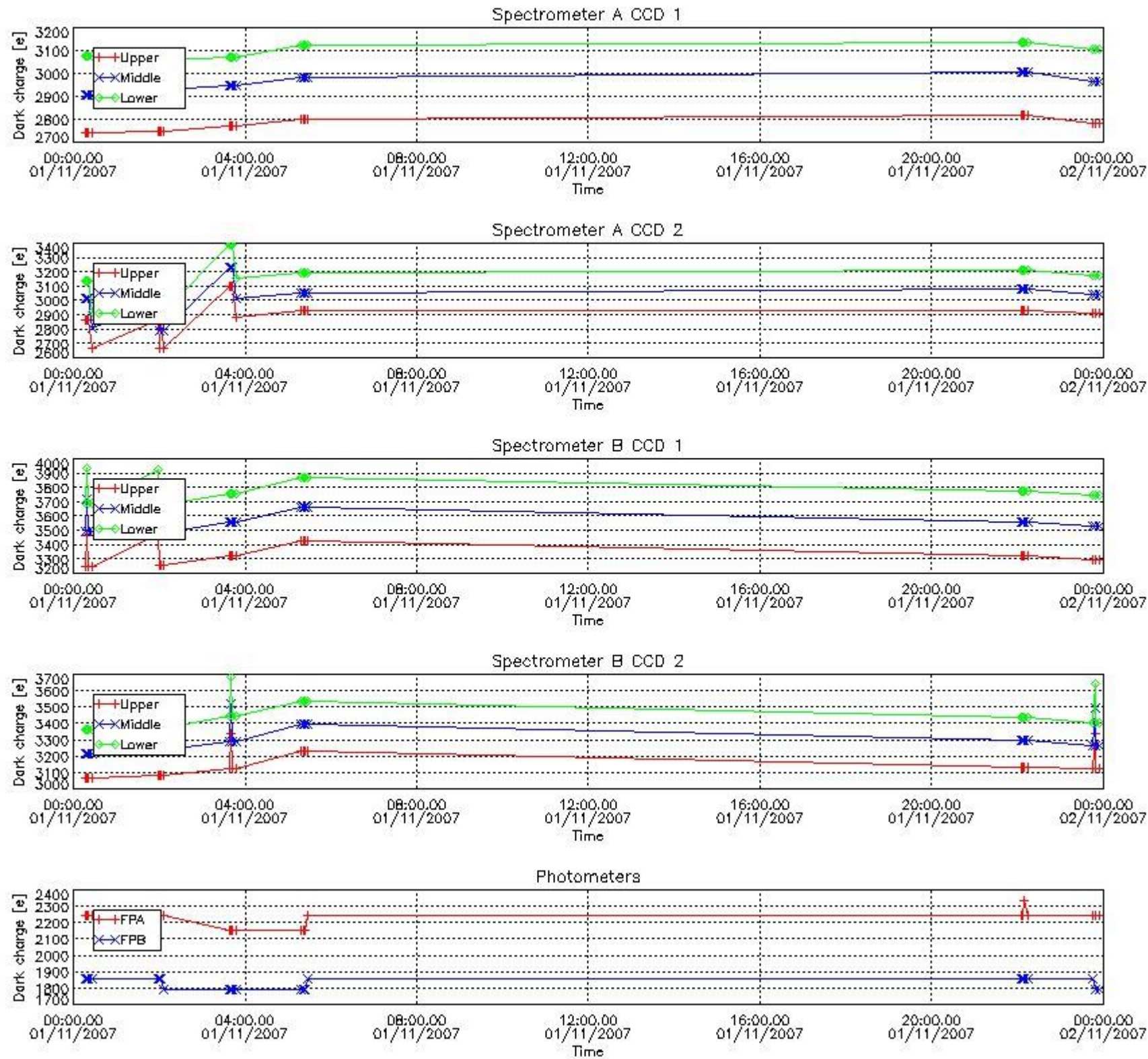
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20071101_204344_000000412063_00043_29656_0384.N1	DC map used
GOM_TRA_1PNPDE20071101_210234_000000392063_00043_29656_0385.N1	DC map used
GOM_TRA_1PNPDE20071101_210636_000000372063_00043_29656_0386.N1	DC map used
GOM_TRA_1PNPDE20071101_210901_000000402063_00043_29656_0387.N1	DC map used
GOM_TRA_1PNPDE20071101_211229_000000372063_00043_29656_0388.N1	DC map used
GOM_TRA_1PNPDE20071101_211340_000000372063_00043_29656_0389.N1	DC map used
GOM_TRA_1PNPDE20071101_212145_000000372063_00043_29656_0390.N1	DC map used
GOM_TRA_1PNPDE20071101_212953_000000402063_00043_29656_0391.N1	DC map used
GOM_TRA_1PNPDE20071101_213129_000000562063_00043_29656_0392.N1	DC map used
GOM_TRA_1PNPDE20071101_213511_000000572063_00043_29656_0393.N1	DC map used
GOM_TRA_1PNPDE20071101_214236_000000382063_00043_29656_0394.N1	DC map used

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



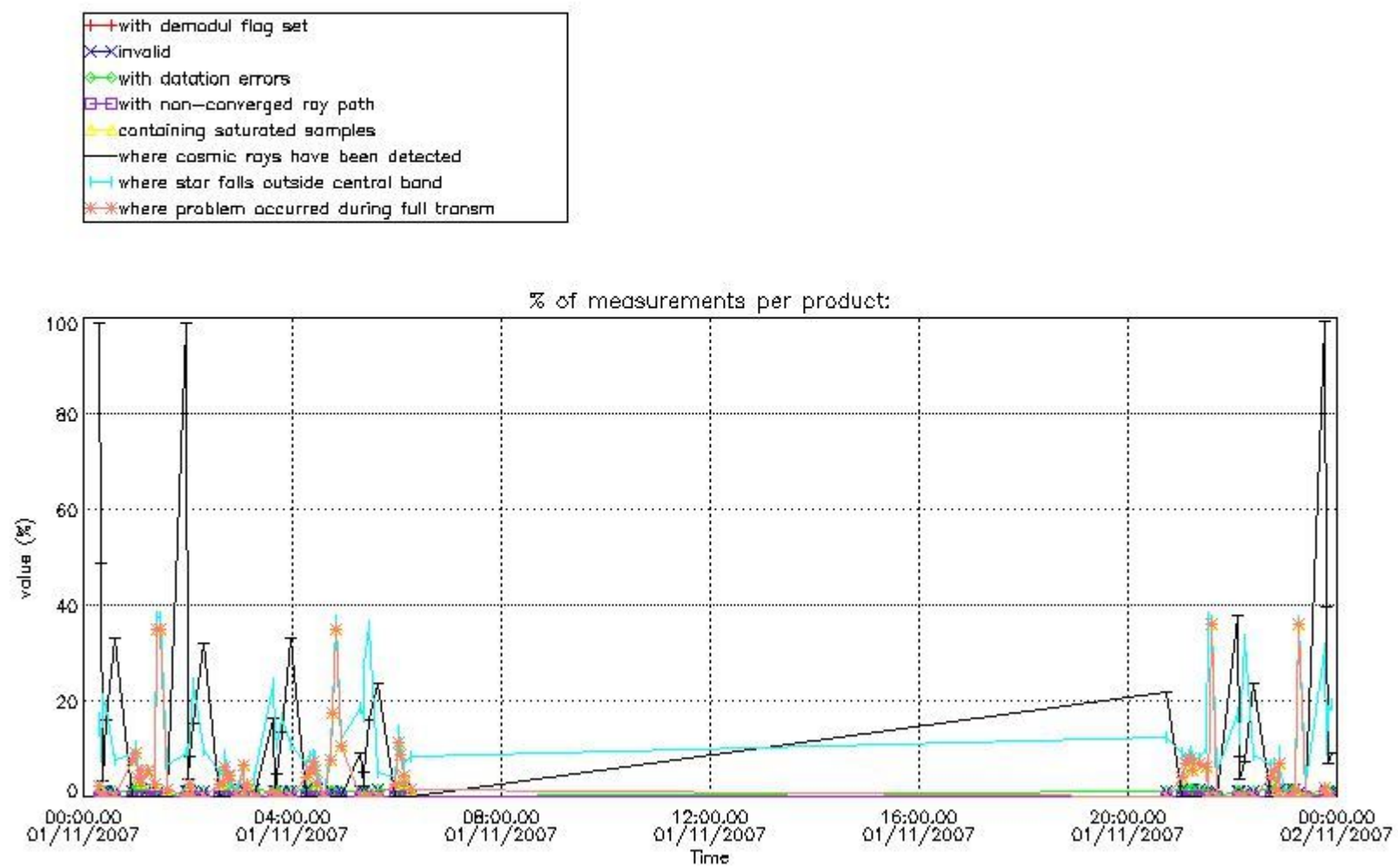
5. Demodulation flag and quality information monitoring

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.

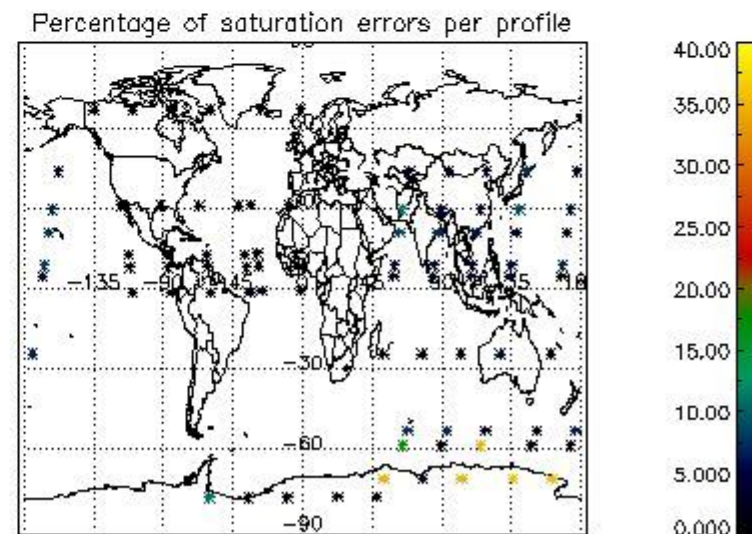
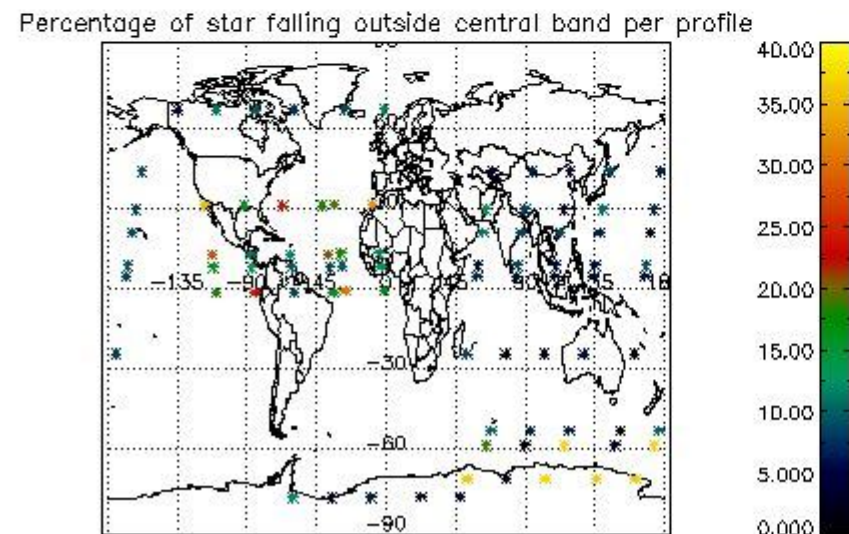
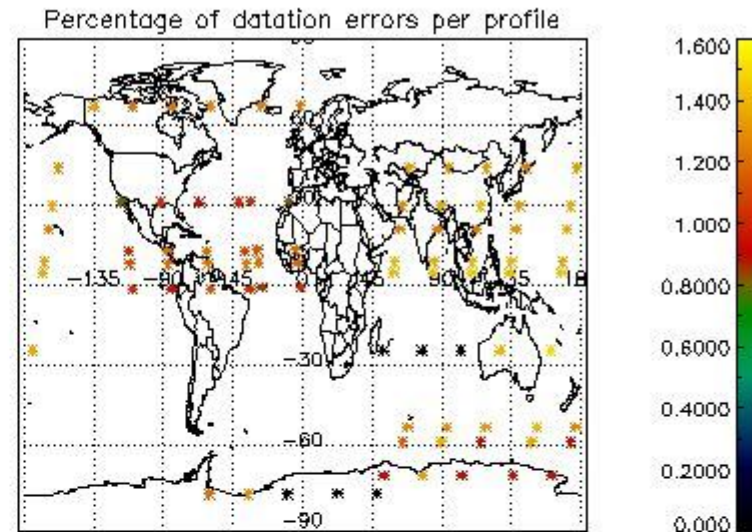
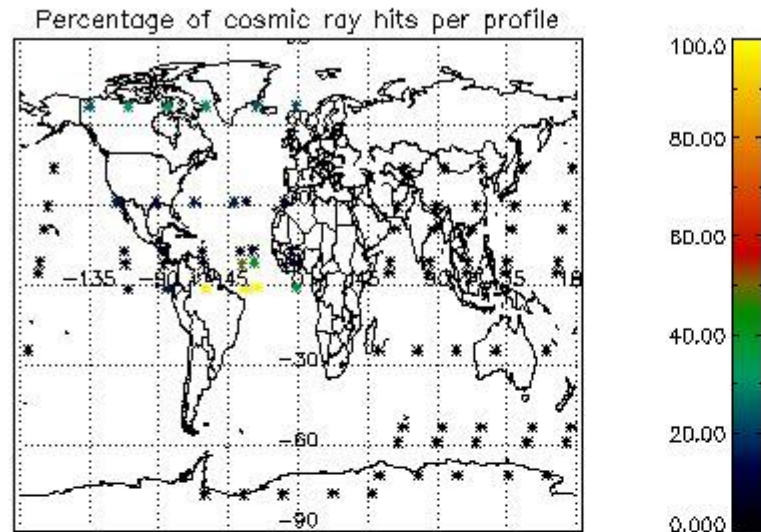
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	10.4651 %
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)



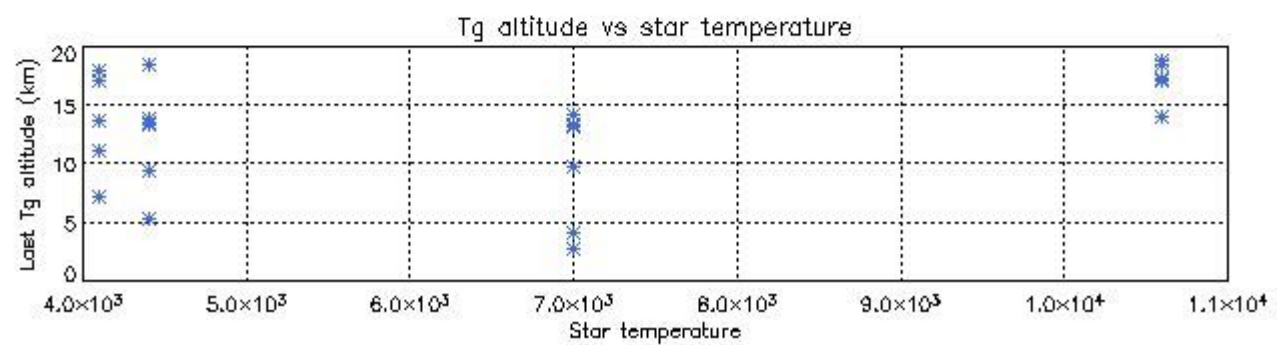
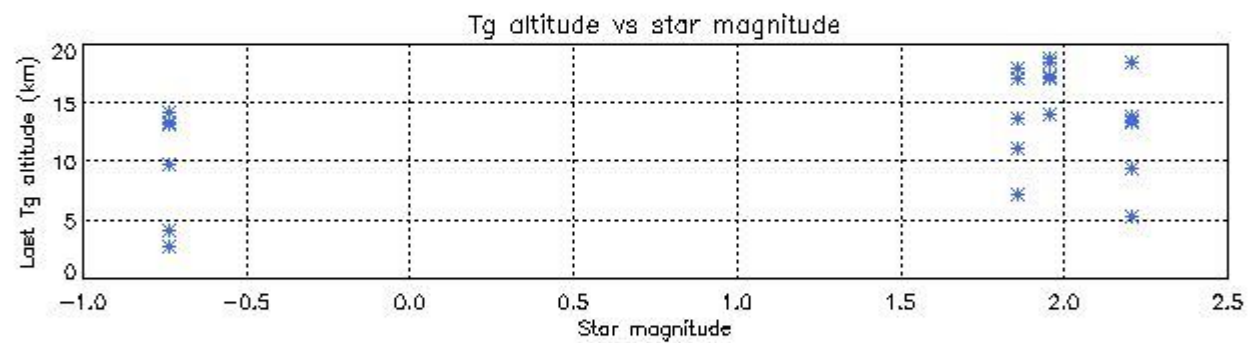
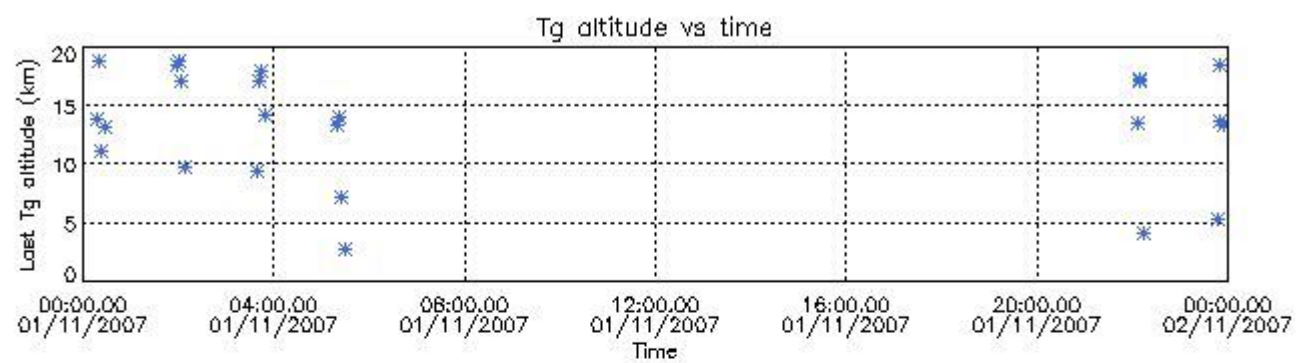
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.326	19.104	NaN
St. deviation:	4.7770	5.9243	NaN
Maximum:	18.843	27.582	NaN
Minimum:	2.7324	3.6556	NaN
Number of data:	24.000	56.000	NaN

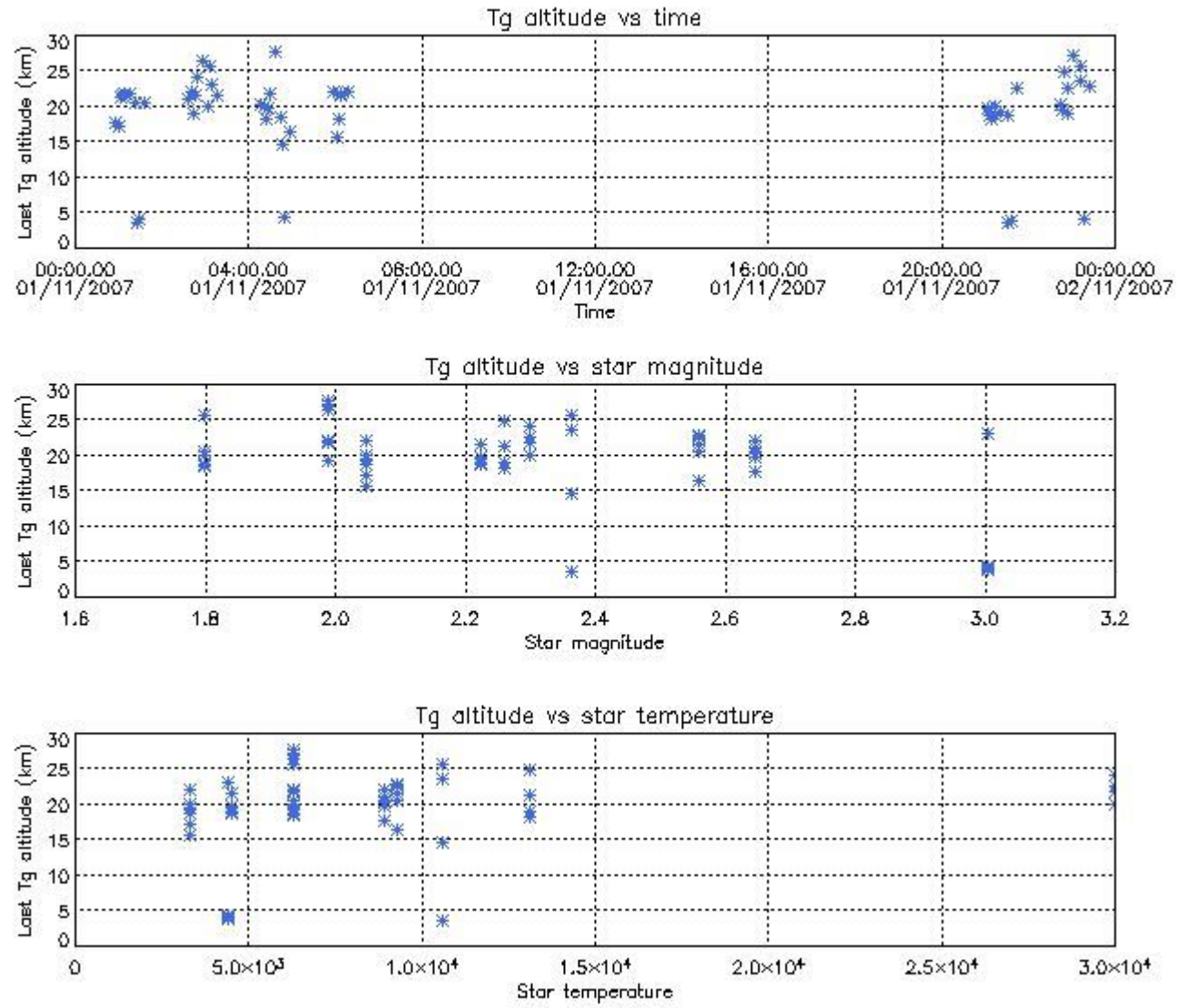
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

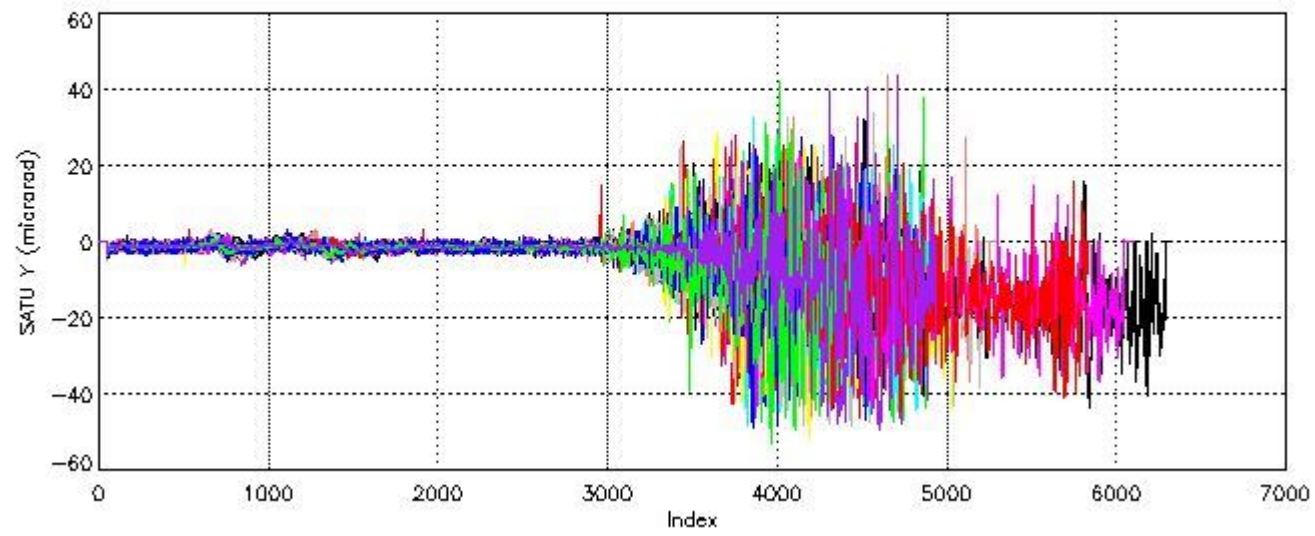
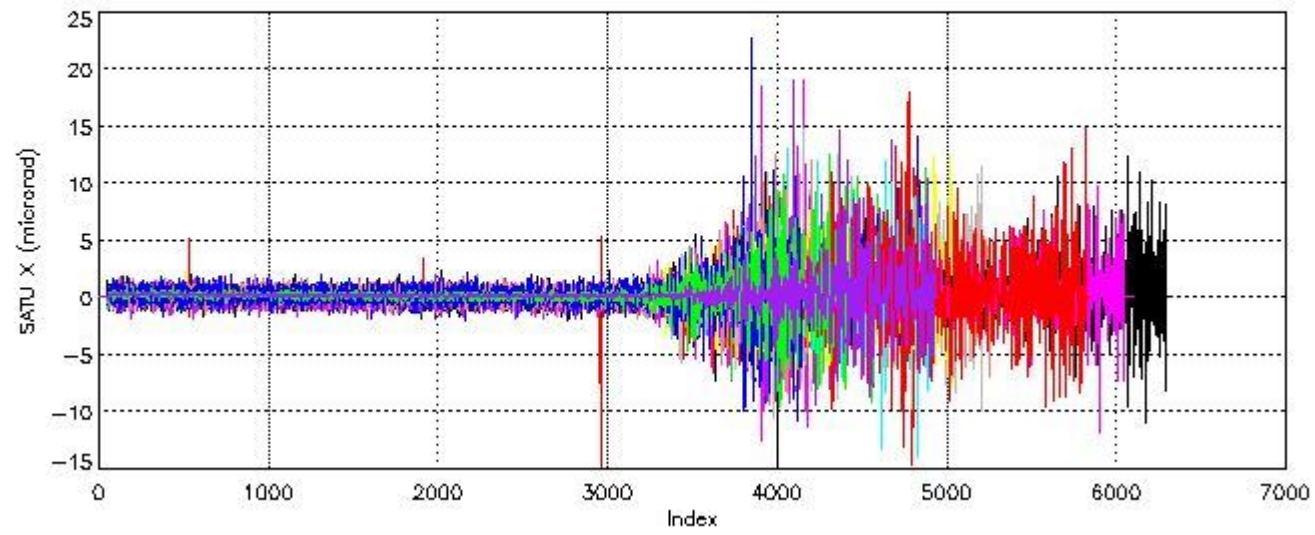


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main 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:	0.18677	-1.2372	0.10908	-1.2922
St. deviation:	0.27139	0.84918	0.64667	1.3201
Maximum:	5.2000	3.3000	4.2000	5.0000
Minimum:	-1.9000	-6.1000	-3.7000	-7.8000

Number of data:	24000.	24000.	47350.	47350.
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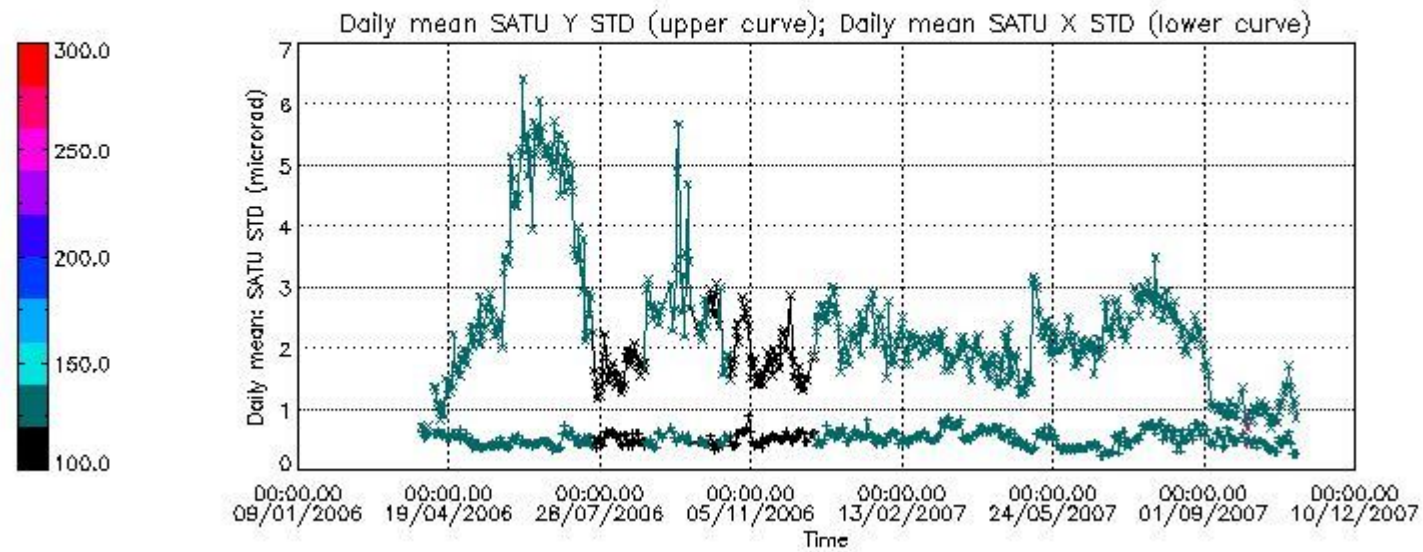
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

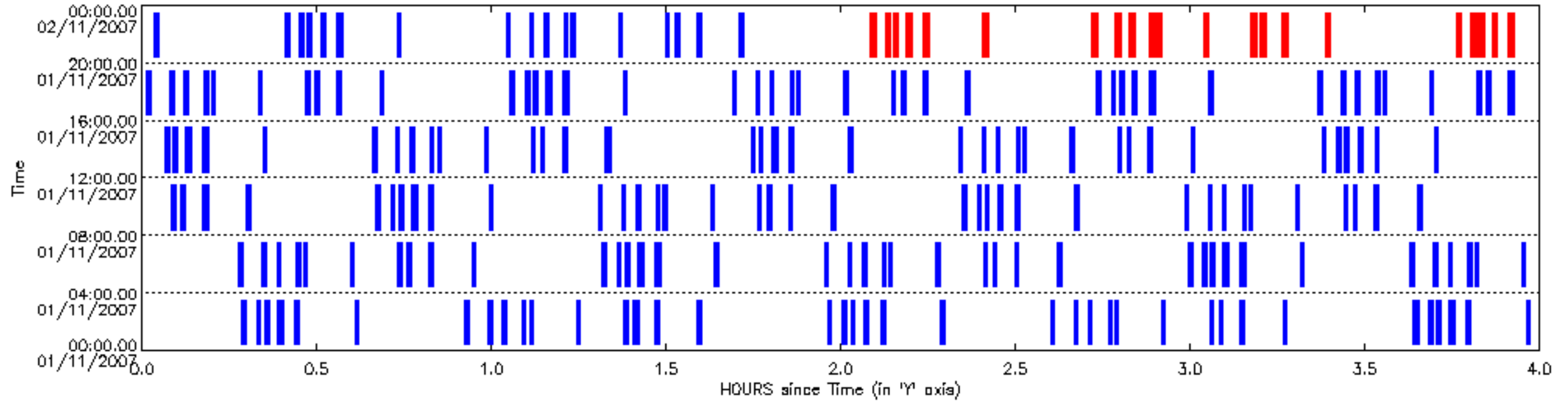
Lower curve: STD of SATU X axis

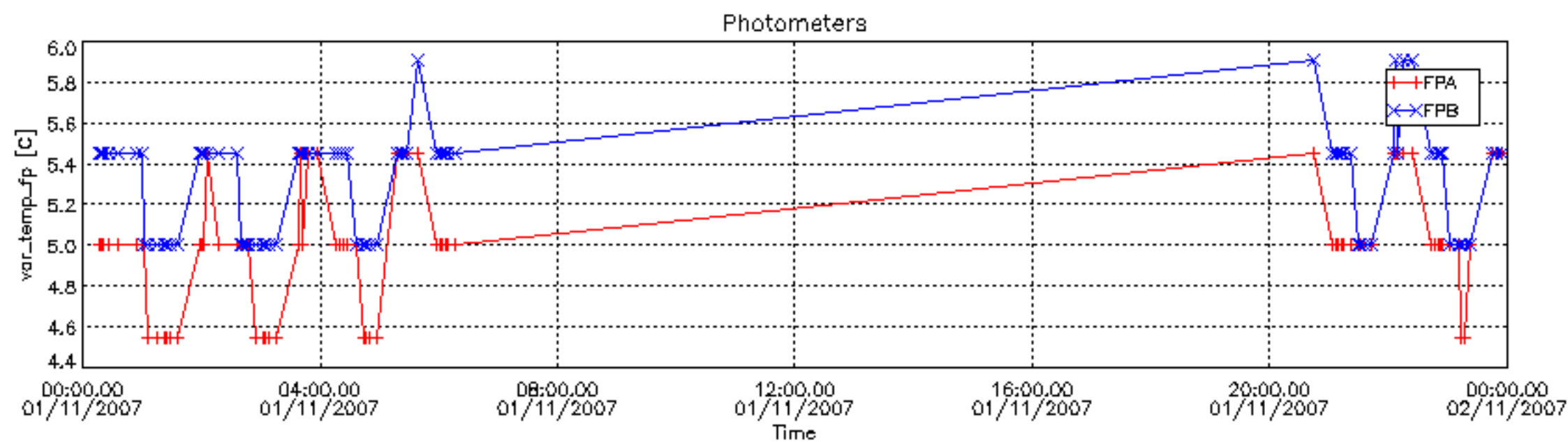
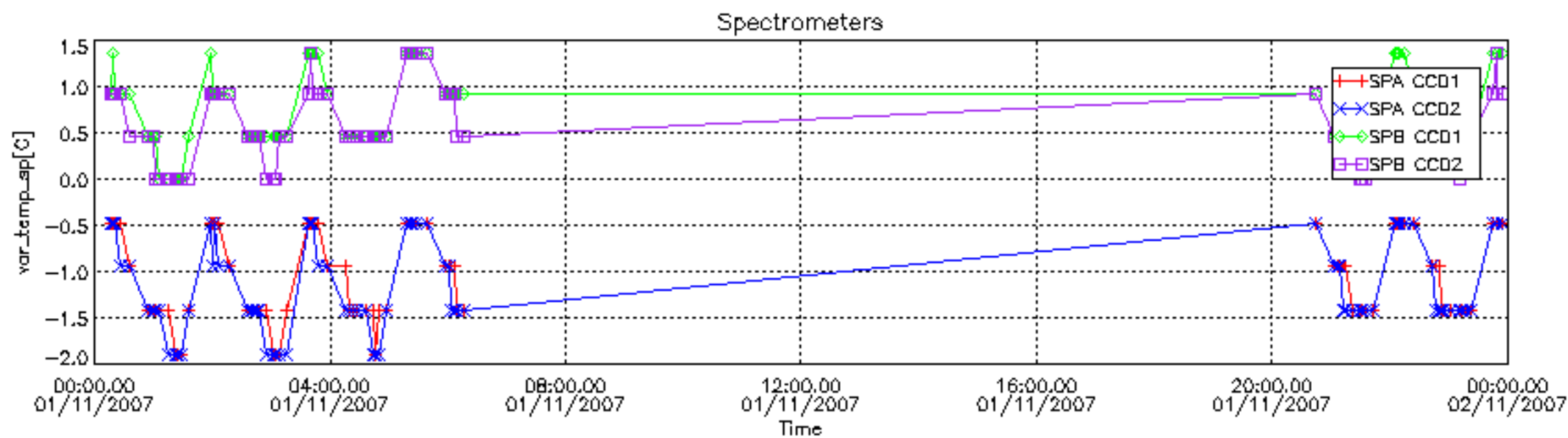


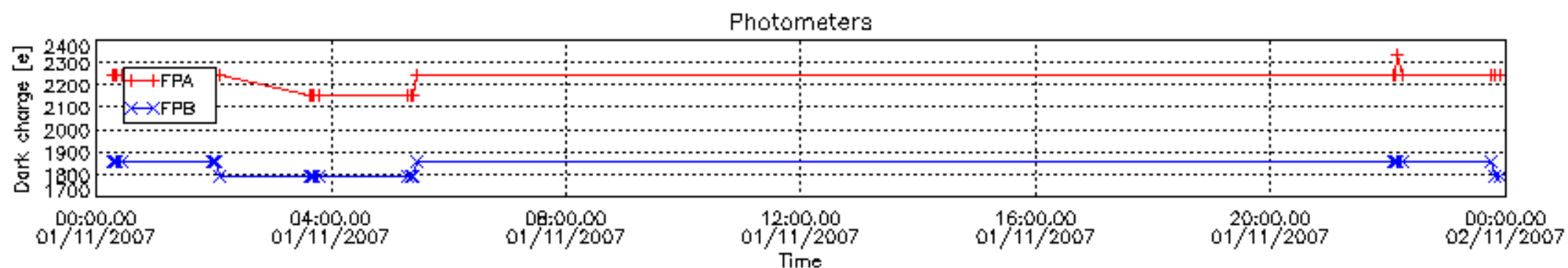
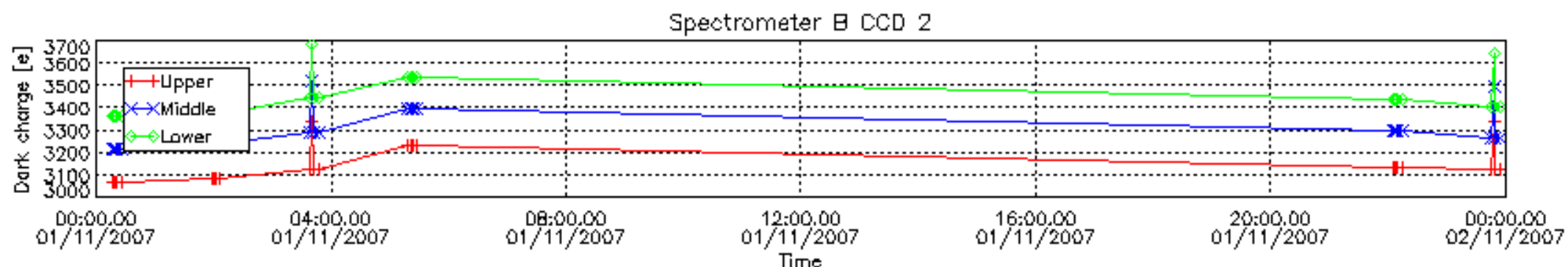
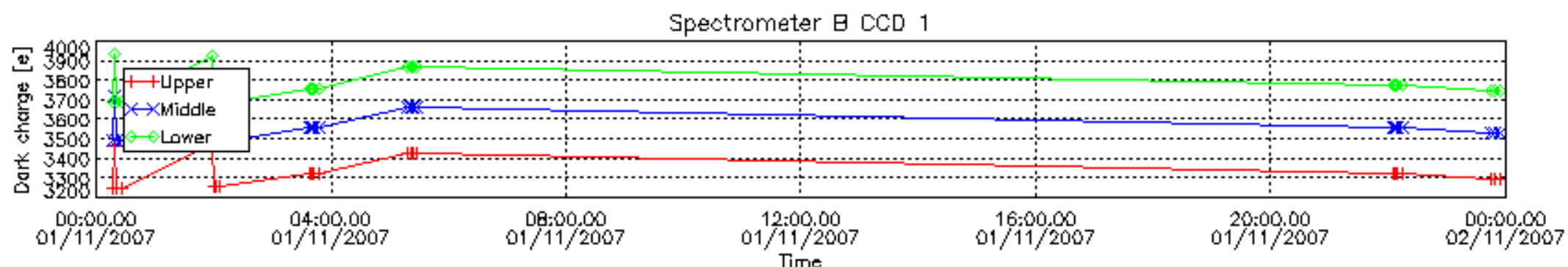
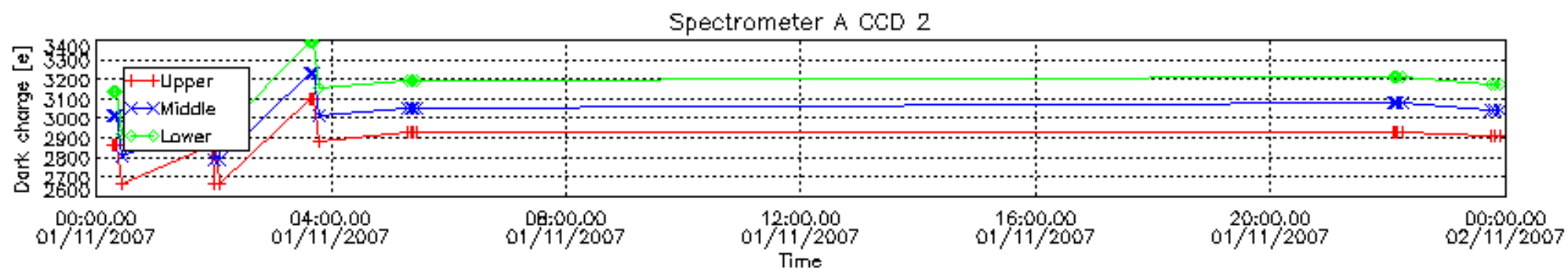
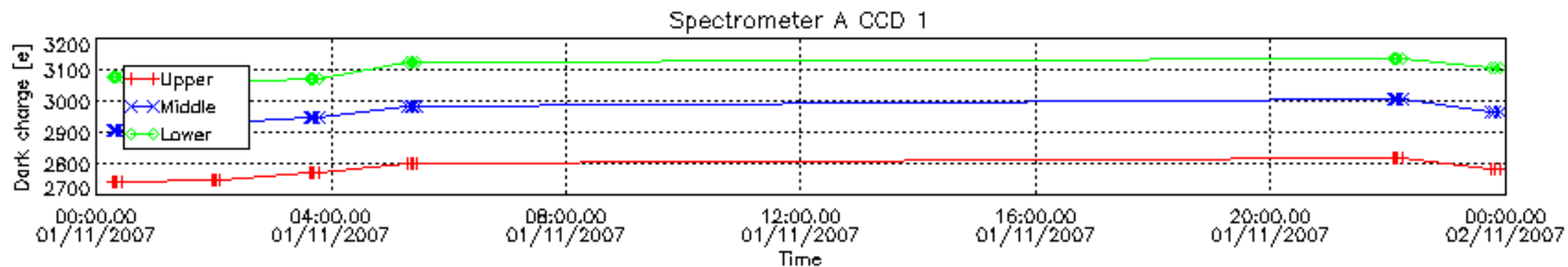
8. Auxiliary Data Files used for the production reported in section 2.4

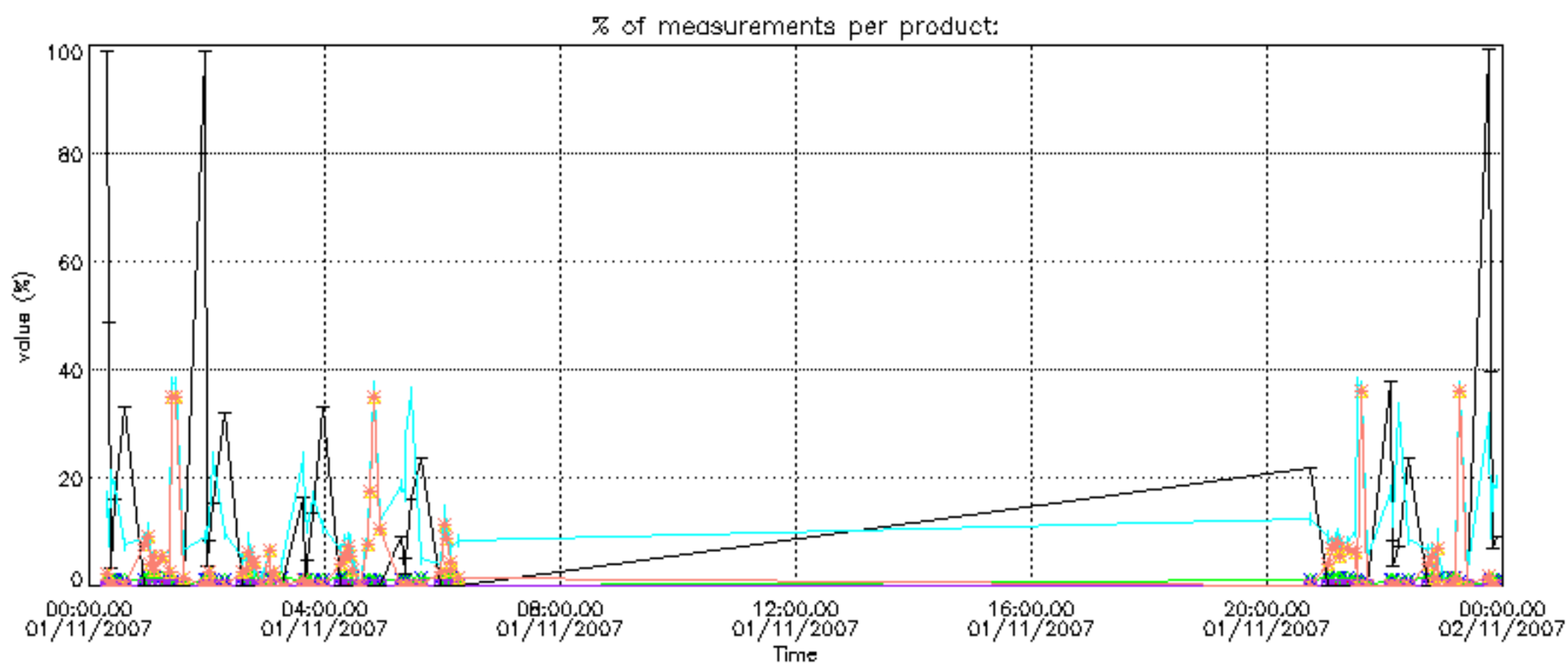
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	01-NOV-2007 00:17:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071029_132344_20071028_000000_20100101_000000	1	01-NOV-2007 00:17:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	01-NOV-2007 00:17:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-NOV-2007 00:17:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	01-NOV-2007 00:17:04
ECMWF_FILE	AUX_ECF_AXNECM20071031_063110_20071031_210000_20071101_090000	1	01-NOV-2007 00:17:04
ECMWF_FILE	AUX_ECF_AXNECM20071031_183126_20071101_030000_20071101_150000	27	01-NOV-2007 03:03:18
ECMWF_FILE	AUX_ECF_AXNECM20071101_063111_20071101_150000_20071102_030000	57	01-NOV-2007 20:43:44
ECMWF_FILE	AUX_ECF_AXNECM20071101_063111_20071101_210000_20071102_090000	68	01-NOV-2007 22:05:03
OPTIONAL_ECMWF_FILE	MISSING	1	01-NOV-2007 00:17:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071031_222015_000057382063_00029_29642_4469.N1	1	01-NOV-2007 00:17:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071101_000112_000057382063_00030_29643_4470.N1	16	01-NOV-2007 01:57:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071101_014209_000041442063_00031_29644_4471.N1	27	01-NOV-2007 03:03:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071101_025632_000057382063_00032_29645_4472.N1	42	01-NOV-2007 04:43:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071101_203910_000038262063_00043_29656_4474.N1	57	01-NOV-2007 20:43:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071101_214815_000057382063_00043_29656_4475.N1	83	01-NOV-2007 23:45:39

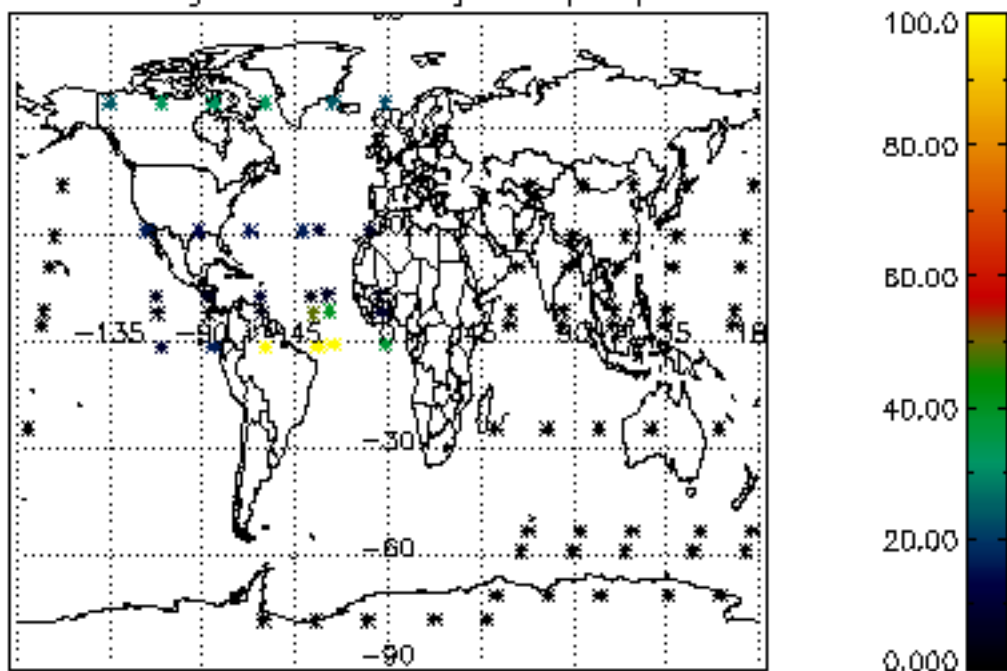




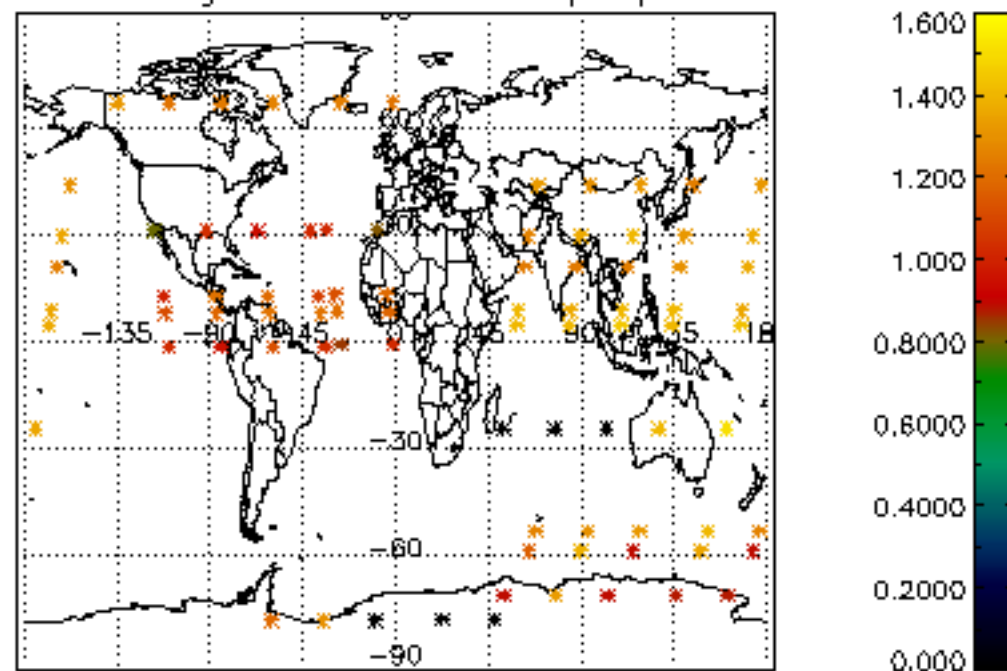




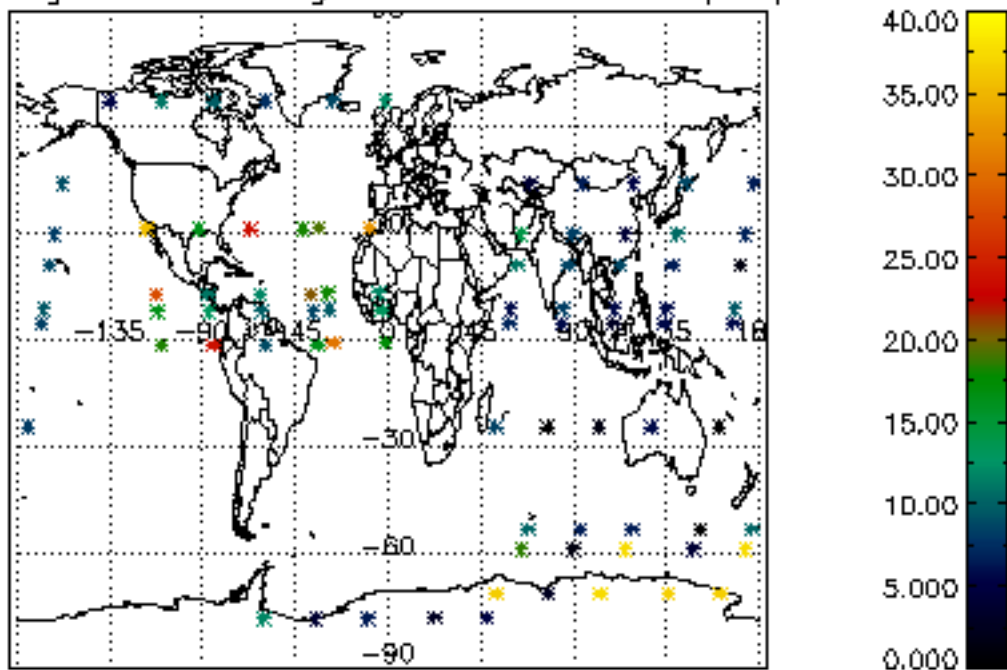
Percentage of cosmic ray hits per profile



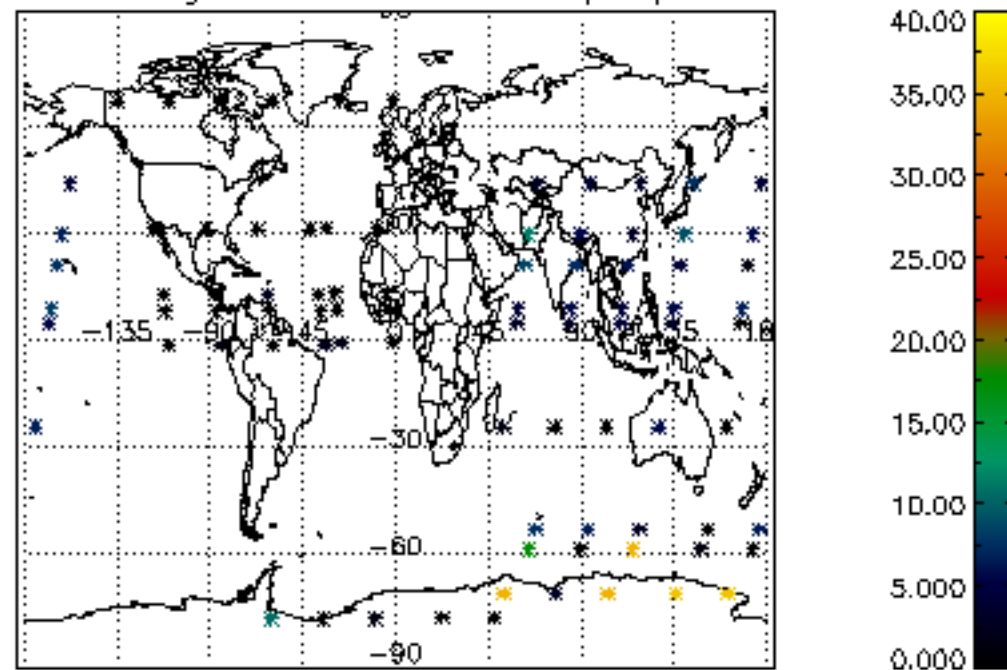
Percentage of datation errors per profile



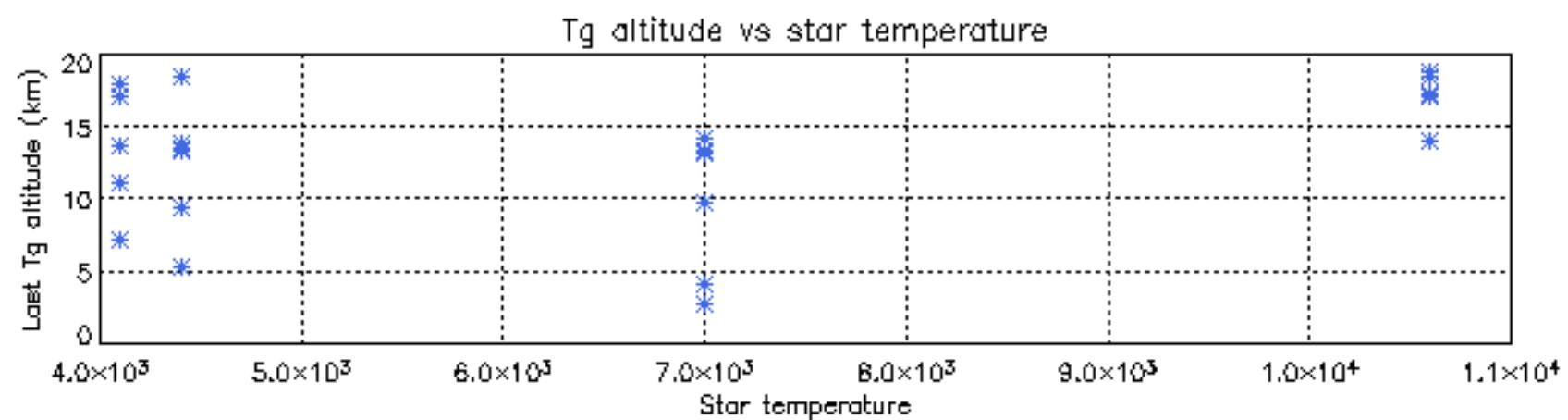
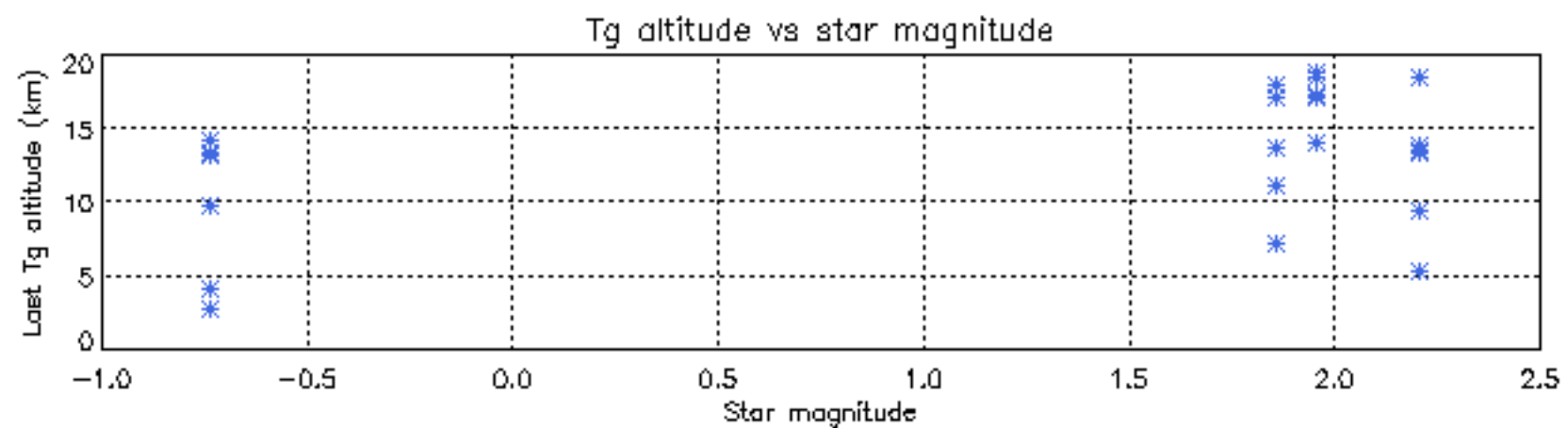
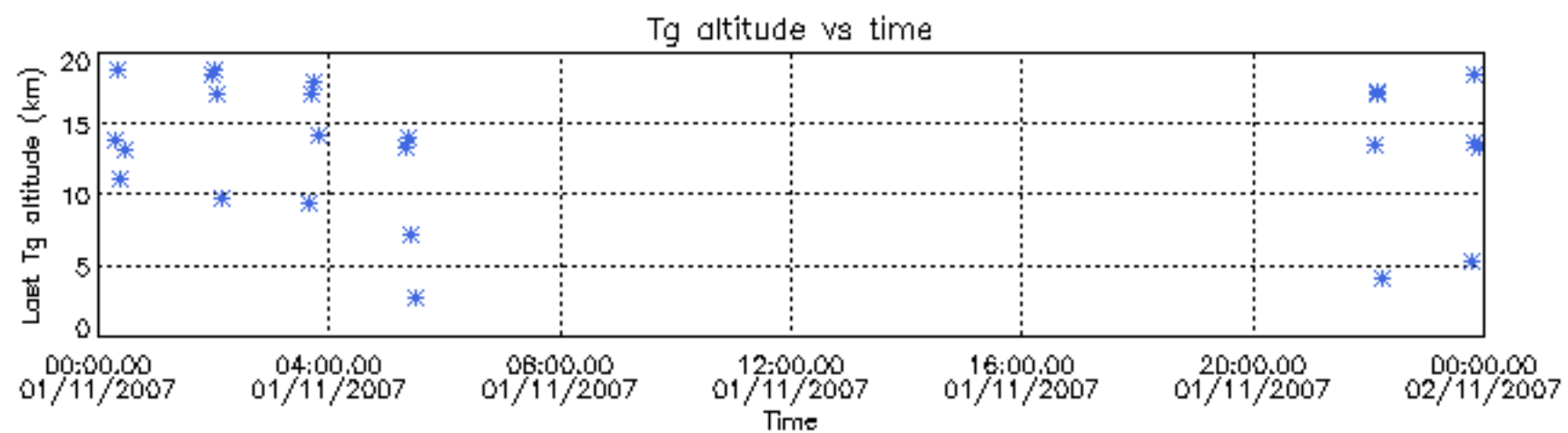
Percentage of star falling outside central band per profile



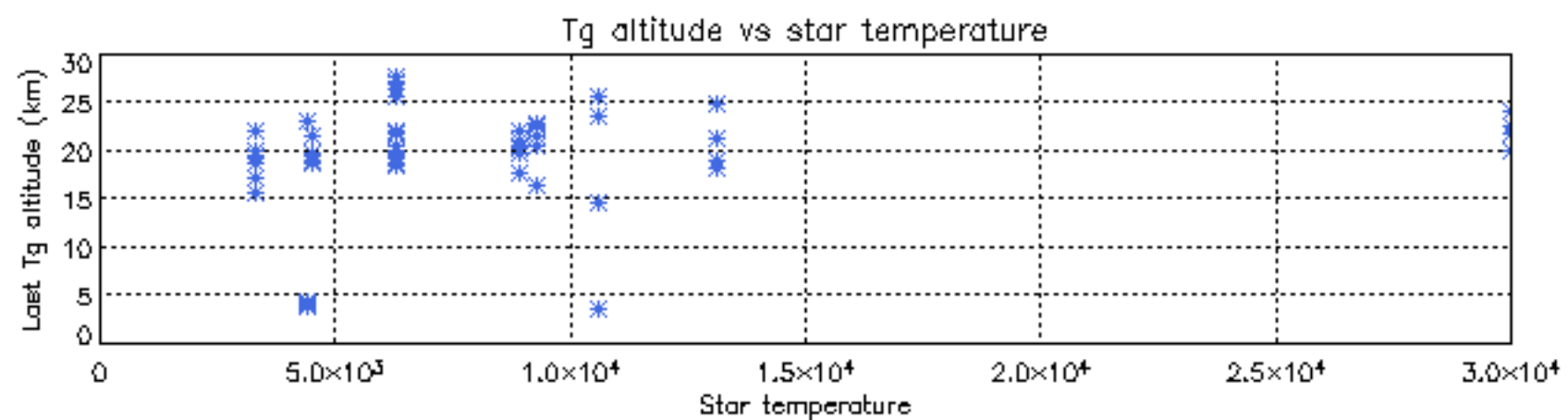
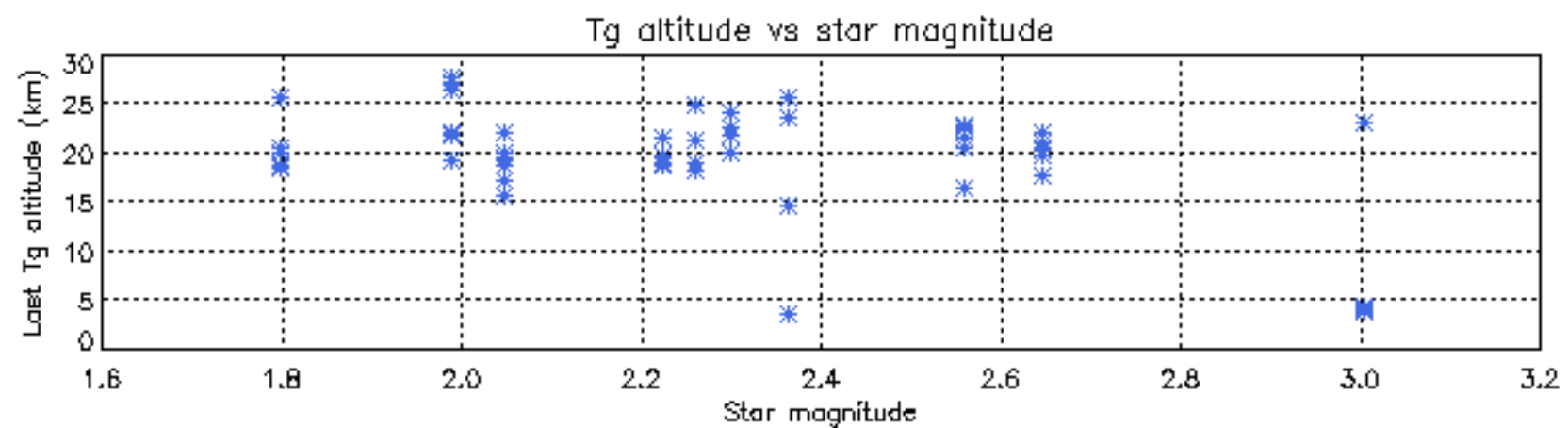
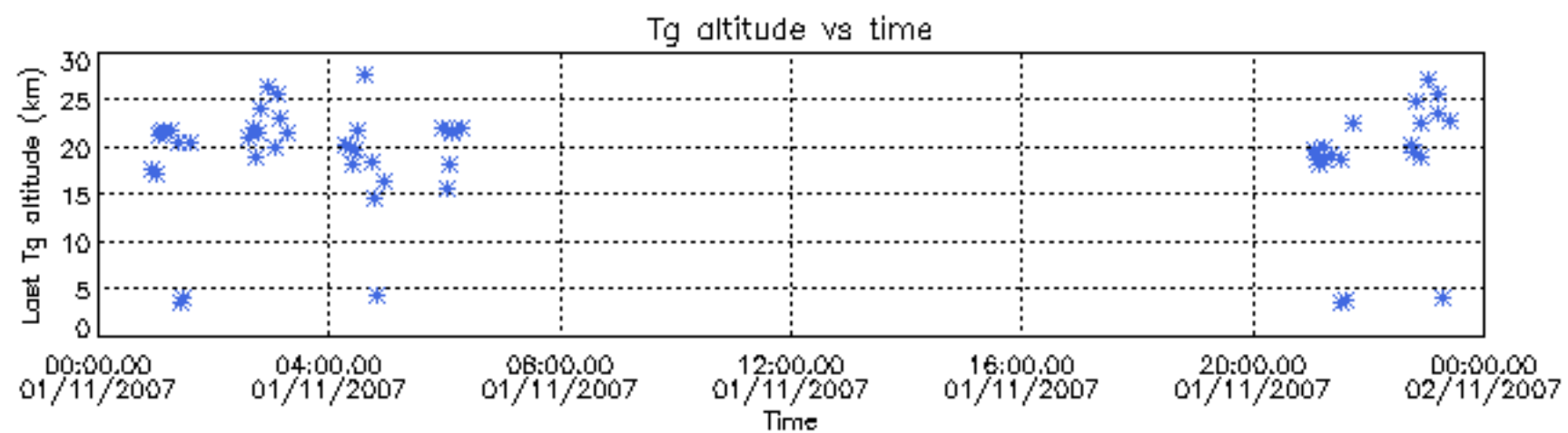
Percentage of saturation errors per profile

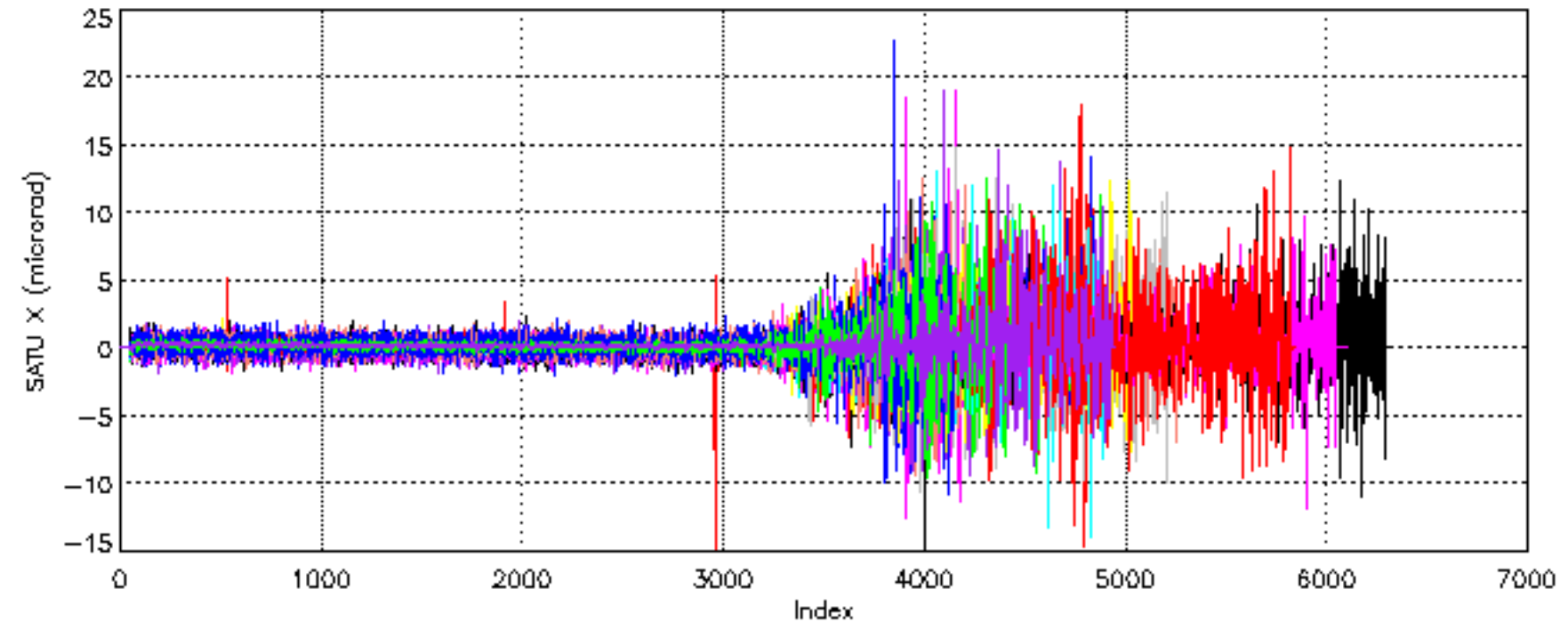


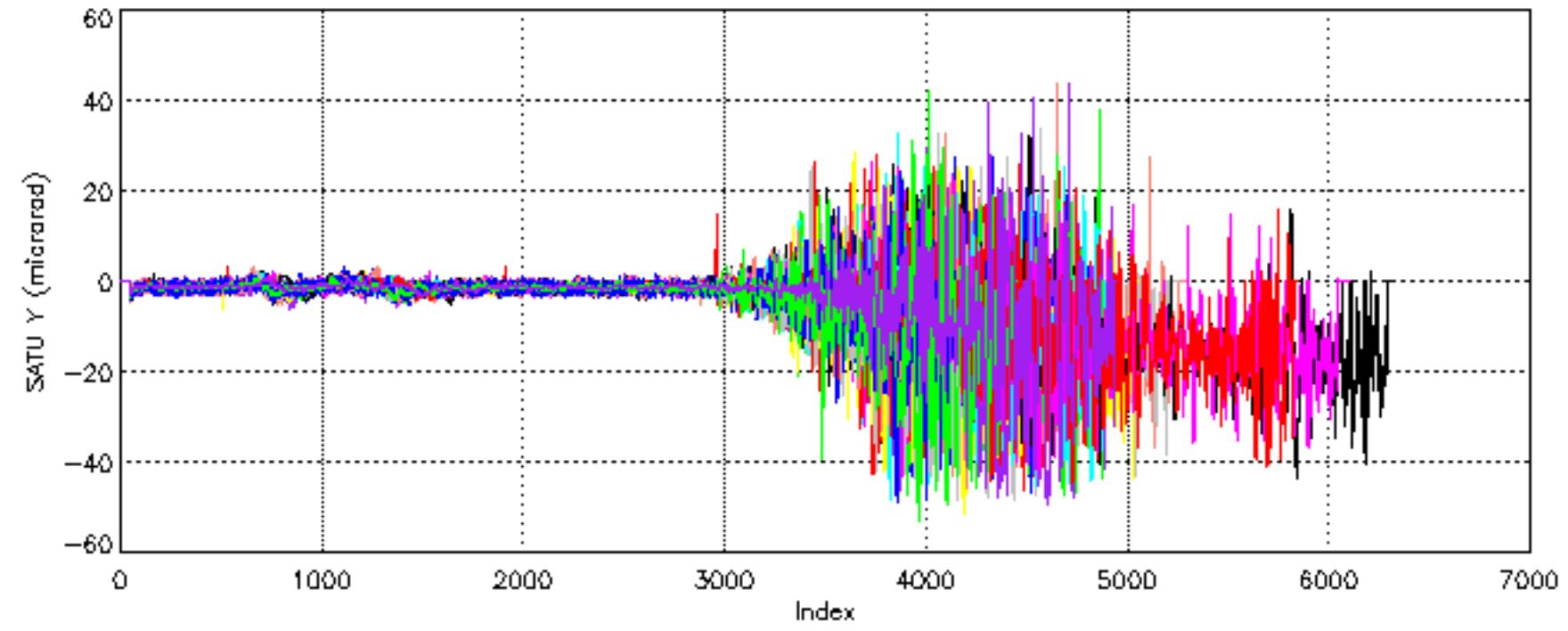
Tangent altitude at which the star is lost

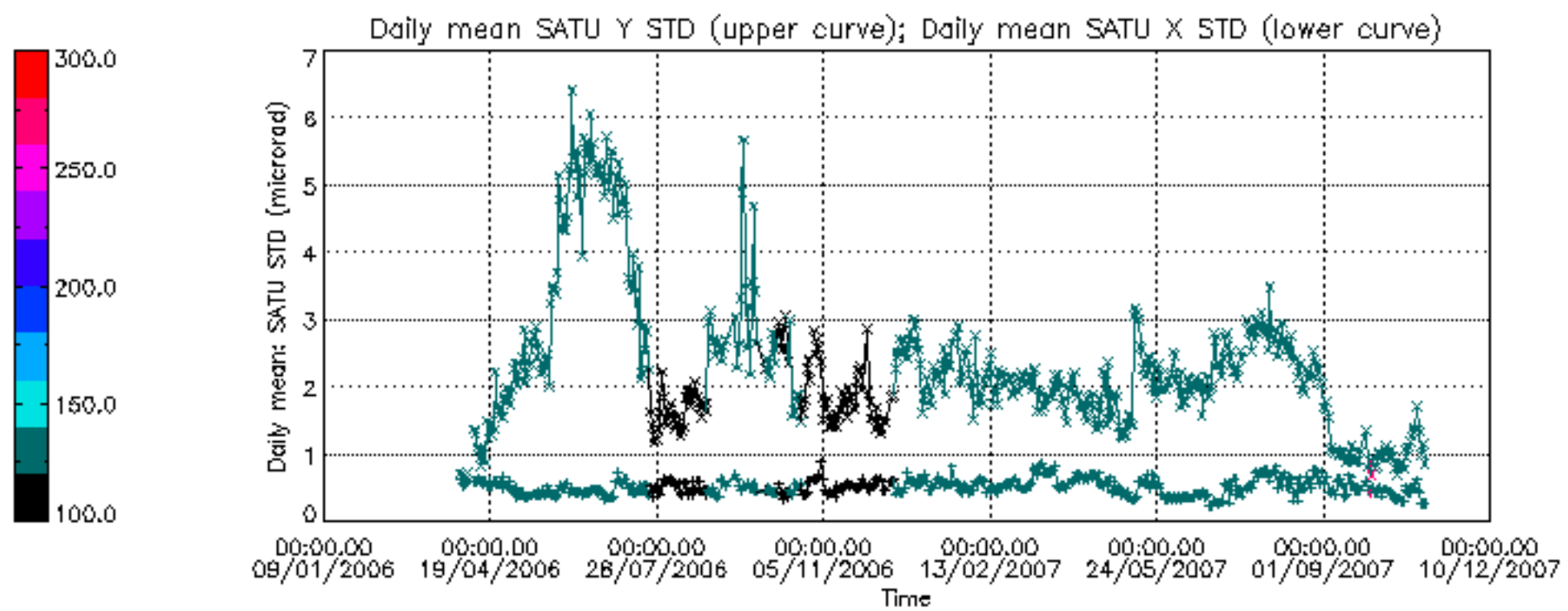


Tangent altitude at which the star is lost









/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
 14; 2867.5; 01-NOV-2007 04:26:29; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29646
 15; 2939.1; 01-NOV-2007 04:27:41; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29646
 16; 3423.8; 01-NOV-2007 04:35:45; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29646

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071101_044354_000055822063_00033_29646_4655.N1

1;-2123.4; 01-NOV-2007 04:43:54; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;29646
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 3;-1806.6; 01-NOV-2007 04:49:11; Bright; 56.0; 174; 52Psi UMa ; 3.00; 4400;occ; 112; 0;29646
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