

GOMOS Daily Report 04-OCT-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	06OCT2007 05:35:15
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (04OCT2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (05OCT2007 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)

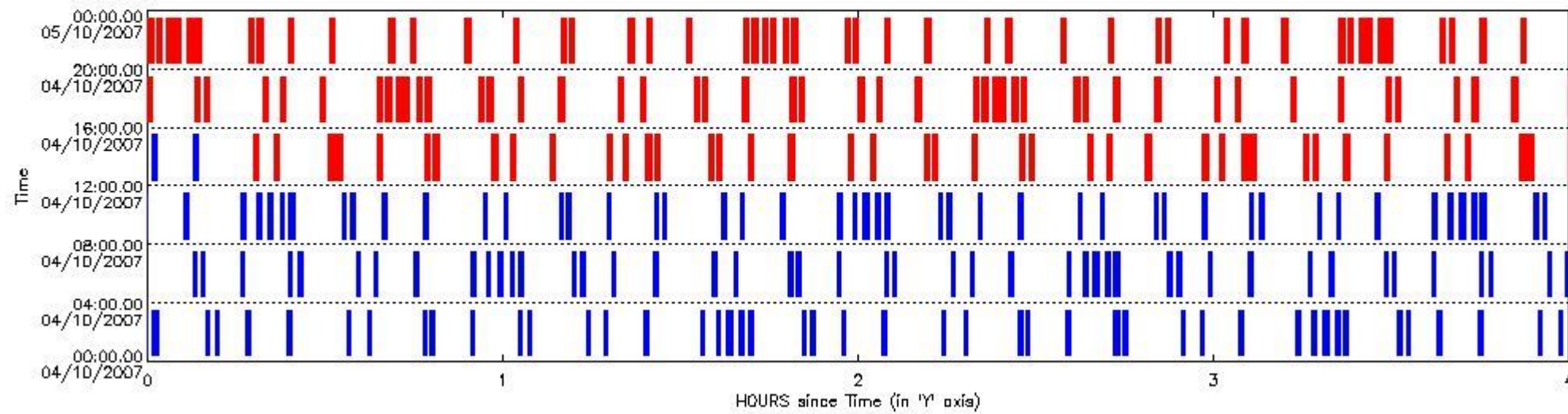
2.1 Level 0 products arrived in PCF (see template [here](#))

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
04-OCT-2007 12:17:42	54AlpPeg	90	29250
04-OCT-2007 12:21:19	53BetPeg	93	29250
04-OCT-2007 12:30:32	11BetCas	74	29250
04-OCT-2007 12:31:47	27GamCas	76	29250
04-OCT-2007 12:38:39	1AlpUMi	49	29250
04-OCT-2007 12:46:41	50AlpUMa	36	29250
04-OCT-2007 12:48:12	48BetUMa	82	29250
04-OCT-2007 12:58:08	17EpsLeo	166	29250
04-OCT-2007 13:01:13	32AlpLeo	22	29250
04-OCT-2007 13:07:51	30AlpHya	48	29250
04-OCT-2007 13:17:31	LamVel	65	29250
04-OCT-2007 13:20:14	Gam2Vel	34	29250
04-OCT-2007 13:24:07	TauPup	161	29251
04-OCT-2007 13:25:32	AlpCar	2	29251
04-OCT-2007 13:34:36	AlpHyi	143	29251

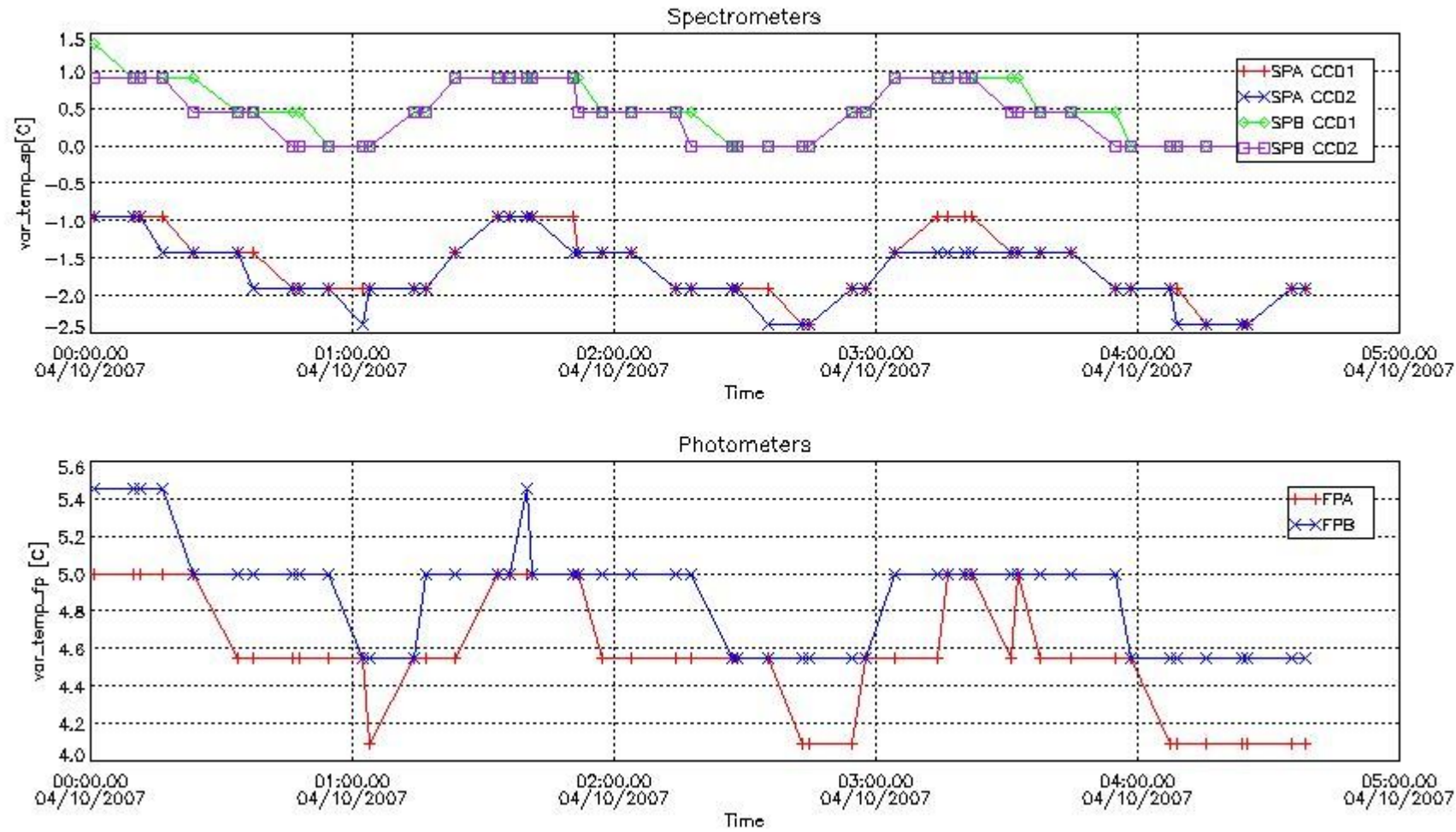
04-OCT-2007 13:36:04	AlpEri	9	29251
04-OCT-2007 13:41:21	AlpPhe	84	29251
04-OCT-2007 13:48:11	16BetCet	52	29251
04-OCT-2007 13:58:18	54AlpPeg	90	29251
04-OCT-2007 14:01:55	53BetPeg	93	29251
04-OCT-2007 14:11:08	11BetCas	74	29251
04-OCT-2007 14:12:23	27GamCas	76	29251
04-OCT-2007 14:19:15	1AlpUMi	49	29251
04-OCT-2007 14:27:17	50AlpUMa	36	29251
04-OCT-2007 14:28:48	48BetUMa	82	29251
04-OCT-2007 14:38:44	17EpsLeo	166	29251
04-OCT-2007 14:41:49	32AlpLeo	22	29251
04-OCT-2007 14:48:27	30AlpHya	48	29251
04-OCT-2007 14:58:07	LamVel	65	29251
04-OCT-2007 15:00:51	Gam2Vel	34	29251
04-OCT-2007 15:04:44	TauPup	161	29252
04-OCT-2007 15:06:08	AlpCar	2	29252
04-OCT-2007 15:15:12	AlpHyl	143	29252
04-OCT-2007 15:16:40	AlpEri	9	29252
04-OCT-2007 15:21:57	AlpPhe	84	29252
04-OCT-2007 15:28:47	16BetCet	52	29252
04-OCT-2007 15:38:54	54AlpPeg	90	29252
04-OCT-2007 15:42:31	53BetPeg	93	29252
04-OCT-2007 15:51:44	11BetCas	74	29252
04-OCT-2007 15:52:58	27GamCas	76	29252
04-OCT-2007 15:59:51	1AlpUMi	49	29252
04-OCT-2007 16:07:54	50AlpUMa	36	29252
04-OCT-2007 16:09:24	48BetUMa	82	29252
04-OCT-2007 16:19:20	17EpsLeo	166	29252
04-OCT-2007 16:22:26	32AlpLeo	22	29252
04-OCT-2007 16:29:04	30AlpHya	48	29252
04-OCT-2007 16:38:44	LamVel	65	29252
04-OCT-2007 16:40:11	ZetPup	70	29252
04-OCT-2007 16:42:00	DelVel	46	29252
04-OCT-2007 16:43:13	DSA1055	0	29252
04-OCT-2007 16:45:21	TauPup	161	29253
04-OCT-2007 16:46:45	AlpCar	2	29253
04-OCT-2007 16:55:49	AlpHyl	143	29253
04-OCT-2007 16:57:16	AlpEri	9	29253
04-OCT-2007 17:02:33	AlpPhe	84	29253
04-OCT-2007 17:09:23	16BetCet	52	29253
04-OCT-2007 17:19:30	54AlpPeg	90	29253
04-OCT-2007 17:23:07	53BetPeg	93	29253
04-OCT-2007 17:32:19	11BetCas	74	29253
04-OCT-2007 17:33:34	27GamCas	76	29253
04-OCT-2007 17:40:27	1AlpUMi	49	29253
04-OCT-2007 17:48:30	50AlpUMa	36	29253
04-OCT-2007 17:50:00	48BetUMa	82	29253
04-OCT-2007 17:59:56	17EpsLeo	166	29253
04-OCT-2007 18:03:02	32AlpLeo	22	29253
04-OCT-2007 18:09:40	30AlpHya	48	29253
04-OCT-2007 18:19:20	LamVel	65	29253
04-OCT-2007 18:20:48	ZetPup	70	29253
04-OCT-2007 18:22:36	DelVel	46	29253
04-OCT-2007 18:23:49	DSA1055	0	29253
04-OCT-2007 18:25:57	TauPup	161	29254
04-OCT-2007 18:27:22	AlpCar	2	29254
04-OCT-2007 18:36:25	AlpHyl	143	29254
04-OCT-2007 18:37:53	AlpEri	9	29254

04-OCT-2007 18:43:09	AlpPhe	84	29254
04-OCT-2007 18:49:59	16BetCet	52	29254
04-OCT-2007 19:00:06	54AlpPeg	90	29254
04-OCT-2007 19:03:43	53BetPeg	93	29254
04-OCT-2007 19:12:55	11BetCas	74	29254
04-OCT-2007 19:21:03	1AlpUMi	49	29254
04-OCT-2007 19:29:06	50AlpUMa	36	29254
04-OCT-2007 19:30:36	48BetUMa	82	29254
04-OCT-2007 19:40:32	17EpsLeo	166	29254
04-OCT-2007 19:43:38	32AlpLeo	22	29254
04-OCT-2007 19:50:17	30AlpHya	48	29254
04-OCT-2007 19:59:57	LamVel	65	29254
04-OCT-2007 20:01:24	ZetPup	70	29254
04-OCT-2007 20:03:13	DelVel	46	29254
04-OCT-2007 20:04:26	DSA1055	0	29254
04-OCT-2007 20:06:34	TauPup	161	29255
04-OCT-2007 20:07:59	AlpCar	2	29255
04-OCT-2007 20:17:01	AlpHyl	143	29255
04-OCT-2007 20:18:29	AlpEri	9	29255
04-OCT-2007 20:23:46	AlpPhe	84	29255
04-OCT-2007 20:30:35	16BetCet	52	29255
04-OCT-2007 20:40:42	54AlpPeg	90	29255
04-OCT-2007 20:44:19	53BetPeg	93	29255
04-OCT-2007 20:53:31	11BetCas	74	29255
04-OCT-2007 21:01:39	1AlpUMi	49	29255
04-OCT-2007 21:09:42	50AlpUMa	36	29255
04-OCT-2007 21:11:12	48BetUMa	82	29255
04-OCT-2007 21:21:09	17EpsLeo	166	29255
04-OCT-2007 21:24:14	32AlpLeo	22	29255
04-OCT-2007 21:30:53	30AlpHya	48	29255
04-OCT-2007 21:40:33	LamVel	65	29255
04-OCT-2007 21:42:01	ZetPup	70	29255
04-OCT-2007 21:43:49	DelVel	46	29255
04-OCT-2007 21:45:03	DSA1055	0	29255
04-OCT-2007 21:47:11	TauPup	161	29256
04-OCT-2007 21:48:35	AlpCar	2	29256
04-OCT-2007 21:57:37	AlpHyl	143	29256
04-OCT-2007 21:59:05	AlpEri	9	29256
04-OCT-2007 22:04:22	AlpPhe	84	29256
04-OCT-2007 22:11:11	16BetCet	52	29256
04-OCT-2007 22:21:18	54AlpPeg	90	29256
04-OCT-2007 22:24:55	53BetPeg	93	29256
04-OCT-2007 22:34:07	11BetCas	74	29256
04-OCT-2007 22:42:15	1AlpUMi	49	29256
04-OCT-2007 22:50:18	50AlpUMa	36	29256
04-OCT-2007 22:51:48	48BetUMa	82	29256
04-OCT-2007 23:01:45	17EpsLeo	166	29256
04-OCT-2007 23:04:50	32AlpLeo	22	29256
04-OCT-2007 23:11:29	30AlpHya	48	29256
04-OCT-2007 23:21:09	LamVel	65	29256
04-OCT-2007 23:22:38	ZetPup	70	29256
04-OCT-2007 23:24:25	DelVel	46	29256
04-OCT-2007 23:25:40	DSA1055	0	29256
04-OCT-2007 23:27:48	TauPup	161	29257
04-OCT-2007 23:29:12	AlpCar	2	29257
04-OCT-2007 23:38:14	AlpHyl	143	29257
04-OCT-2007 23:39:41	AlpEri	9	29257
04-OCT-2007 23:44:58	AlpPhe	84	29257
04-OCT-2007 23:51:47	16BetCet	52	29257

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_1PNPDE20071004_000041_000000602062_00131_29243_9670.N1	04-OCT-2007 00:00:41	Dark	60.000	2	Alp Car	-0.73600	7000.0	120	29243	No
2	GOM_TRA_1PNPDE20071004_000949_000000392062_00131_29243_9671.N1	04-OCT-2007 00:09:49	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	29243	No
3	GOM_TRA_1PNPDE20071004_001116_000000422062_00131_29243_9672.N1	04-OCT-2007 00:11:16	Dark	41.500	9	Alp Eri	0.45300	24000.	83	29243	No
4	GOM_TRA_1PNPDE20071004_001634_000000422062_00131_29243_9673.N1	04-OCT-2007 00:16:34	Straylight	41.500	84	Alp Phe	2.3970	4500.0	83	29243	No
5	GOM_TRA_1PNPDE20071004_002325_000000472062_00131_29243_9674.N1	04-OCT-2007 00:23:25	Straylight	46.500	52	16Bet Cet	2.0370	4500.0	93	29243	No
6	GOM_TRA_1PNPDE20071004_003333_000000372062_00131_29243_9675.N1	04-OCT-2007 00:33:33	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	29243	No
7	GOM_TRA_1PNPDE20071004_003710_000000382062_00131_29243_9676.N1	04-OCT-2007 00:37:10	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	29243	No
8	GOM_TRA_1PNPDE20071004_004625_000000382062_00131_29243_9677.N1	04-OCT-2007 00:46:25	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	29243	No
9	GOM_TRA_1PNPDE20071004_004741_000000372062_00131_29243_9678.N1	04-OCT-2007 00:47:41	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	29243	No
10	GOM_TRA_1PNPDE20071004_005431_000000362062_00131_29243_9679.N1	04-OCT-2007 00:54:31	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29243	No
11	GOM_TRA_1PNPDE20071004_010232_000000362062_00131_29243_9680.N1	04-OCT-2007 01:02:32	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	29243	No
12	GOM_TRA_1PNPDE20071004_010403_000000362062_00131_29243_9681.N1	04-OCT-2007 01:04:03	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	29243	No
13	GOM_TRA_1PNPDE20071004_011358_000000362062_00131_29243_9682.N1	04-OCT-2007 01:13:58	Bright	35.500	166	17Eps Leo	2.9800	6000.0	71	29243	No
14	GOM_TRA_1PNPDE20071004_011703_000000352062_00131_29243_9683.N1	04-OCT-2007 01:17:03	Bright	34.500	22	32Alp Leo	1.3600	15200.	69	29243	No
15	GOM_TRA_1PNPDE20071004_012339_000000462062_00131_29243_9684.N1	04-OCT-2007 01:23:39	Twilight	45.500	48	30Alp Hya	1.9770	4100.0	91	29243	No
16	GOM_TRA_1PNPDE20071004_013320_000000432062_00131_29243_9795.N1	04-OCT-2007 01:33:20	Dark	42.500	65	Lam Vel	2.2040	4400.0	85	29243	No
17	GOM_TRA_1PNPDE20071004_013601_000000422062_00131_29243_9796.N1	04-OCT-2007 01:36:01	Dark	41.500	34	Gam2Vel	1.7930	23000.	83	29243	No
18	GOM_TRA_1PNPDE20071004_013953_000000472062_00132_29244_9797.N1	04-OCT-2007 01:39:53	Dark	47.000	161	Tau Pup	2.9310	4500.0	94	29244	No
19	GOM_TRA_1PNPDE20071004_014118_000000492062_00132_29244_9798.N1	04-OCT-2007 01:41:18	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	29244	No
20	GOM_TRA_1PNPDE20071004_015025_000000382062_00132_29244_9799.N1	04-OCT-2007 01:50:25	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	29244	No
21	GOM_TRA_1PNPDE20071004_015153_000000442062_00132_29244_9800.N1	04-OCT-2007 01:51:53	Dark	43.500	9	Alp Eri	0.45300	24000.	87	29244	No
22	GOM_TRA_1PNPDE20071004_015710_000000432062_00132_29244_9801.N1	04-OCT-2007 01:57:10	Straylight	42.500	84	Alp Phe	2.3970	4500.0	85	29244	No
23	GOM_TRA_1PNPDE20071004_020401_000000482062_00132_29244_9802.N1	04-OCT-2007 02:04:01	Straylight	48.000	52	16Bet Cet	2.0370	4500.0	96	29244	No
24	GOM_TRA_1PNPDE20071004_021409_000000362062_00132_29244_9803.N1	04-OCT-2007 02:14:09	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	29244	No
25	GOM_TRA_1PNPDE20071004_021746_000000382062_00132_29244_9804.N1	04-OCT-2007 02:17:46	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	29244	No
26	GOM_TRA_1PNPDE20071004_022701_000000382062_00132_29244_9805.N1	04-OCT-2007 02:27:01	Bright	37.500	74	11Bet Cas	2.2680	6600.0	75	29244	No
27	GOM_TRA_1PNPDE20071004_022817_000000372062_00132_29244_9806.N1	04-OCT-2007 02:28:17	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	29244	No
28	GOM_TRA_1PNPDE20071004_023507_000000352062_00132_29244_9807.N1	04-OCT-2007 02:35:07	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	29244	No
29	GOM_TRA_1PNPDE20071004_024308_000000522062_00132_29244_9981.N1	04-OCT-2007 02:43:08	Bright	52.000	36	50Alp UMa	1.8000	6300.0	104	29244	No
30	GOM_TRA_1PNPDE20071004_024439_000000412062_00132_29244_9982.N1	04-OCT-2007 02:44:39	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	29244	No
31	GOM_TRA_1PNPDE20071004_025434_000000372062_00132_29244_9983.N1	04-OCT-2007 02:54:34	Bright	36.500	166	17Eps Leo	2.9800	6000.0	73	29244	No
32	GOM_TRA_1PNPDE20071004_025739_000000342062_00132_29244_9984.N1	04-OCT-2007 02:57:39	Bright	34.000	22	32Alp Leo	1.3600	15200.	68	29244	No
33	GOM_TRA_1PNPDE20071004_030416_000000482062_00132_29244_9985.N1	04-OCT-2007 03:04:16	Twilight	47.500	48	30Alp Hya	1.9770	4100.0	95	29244	No
34	GOM_TRA_1PNPDE20071004_031356_000000442062_00132_29244_9986.N1	04-OCT-2007 03:13:56	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	29244	No
35	GOM_TRA_1PNPDE20071004_031638_000000432062_00132_29244_9987.N1	04-OCT-2007 03:16:38	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	29244	No
36	GOM_TRA_1PNPDE20071004_032030_000000462062_00133_29245_9988.N1	04-OCT-2007 03:20:30	Dark	46.000	161	Tau Pup	2.9310	4500.0	92	29245	No
37	GOM_TRA_1PNPDE20071004_032154_000000452062_00133_29245_9989.N1	04-OCT-2007 03:21:54	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	29245	No
38	GOM_TRA_1PNPDE20071004_033101_000000392062_00133_29245_9990.N1	04-OCT-2007 03:31:01	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	29245	No
39	GOM_TRA_1PNPDE20071004_033229_000000402062_00133_29245_9991.N1	04-OCT-2007 03:32:29	Dark	39.500	9	Alp Eri	0.45300	24000.	79	29245	No
40	GOM_TRA_1PNPDE20071004_033747_000000402062_00133_29245_9992.N1	04-OCT-2007 03:37:47	Straylight	40.000	84	Alp Phe	2.3970	4500.0	80	29245	No
41	GOM_TRA_1PNPDE20071004_034438_000000472062_00133_29245_9993.N1	04-OCT-2007 03:44:38	Straylight	46.500	52	16Bet Cet	2.0370	4500.0	93	29245	No
42	GOM_TRA_1PNPDE20071004_035445_000000362062_00133_29245_9994.N1	04-OCT-2007 03:54:45	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	29245	No
43	GOM_TRA_1PNPDE20071004_035822_000000372062_00133_29245_9995.N1	04-OCT-2007 03:58:22	Bright	36.500	93	53Bet Peg	2.5200	3100.0	73	29245	No
44	GOM_TRA_1PNPDE20071004_040737_000000382062_00133_29245_9996.N1	04-OCT-2007 04:07:37	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	29245	No
45	GOM_TRA_1PNPDE20071004_040853_000000392062_00133_29245_9997.N1	04-OCT-2007 04:08:53	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	29245	No
46	GOM_TRA_1PNPDE20071004_041543_000000332062_00133_29245_9998.N1	04-OCT-2007 04:15:43	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	29245	No
47	GOM_TRA_1PNPDE20071004_042344_000000372062_00133_29245_0125.N1	04-OCT-2007 04:23:44	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29245	No
48	GOM_TRA_1PNPDE20071004_042515_000000522062_00133_29245_0126.N1	04-OCT-2007 04:25:15	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	29245	No
49	GOM_TRA_1PNPDE20071004_043510_000000362062_00133_29245_0127.N1	04-OCT-2007 04:35:10	Bright	36.000	166	17Eps Leo	2.9800	6000.0	72	29245	No
50	GOM_TRA_1PNPDE20071004_043815_000000342062_00133_29245_0128.N1	04-OCT-2007 04:38:15	Bright	33.500	22	32Alp Leo	1.3600	15200.	67	29245	No

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



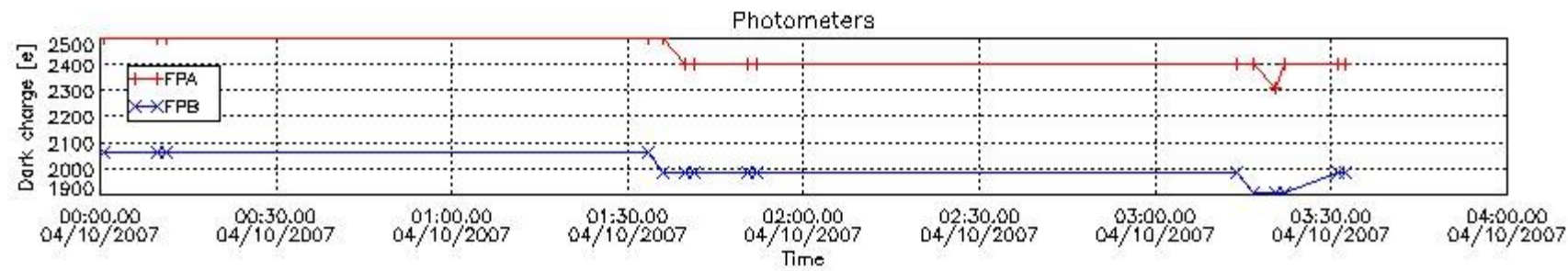
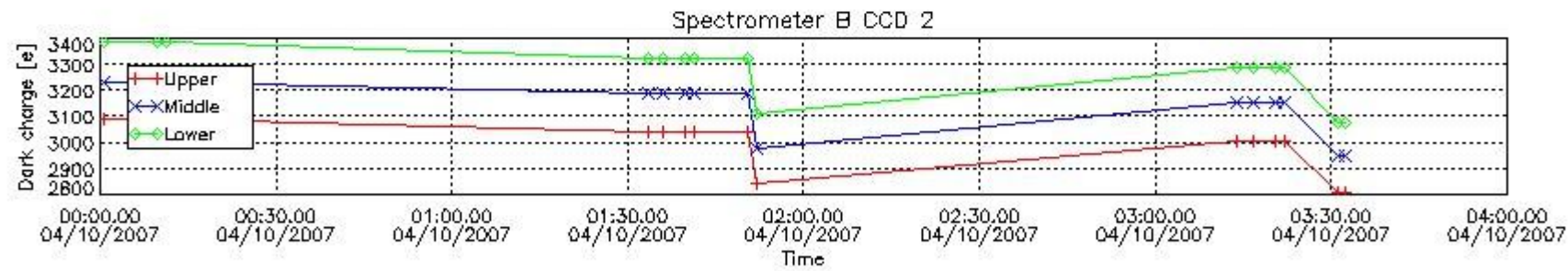
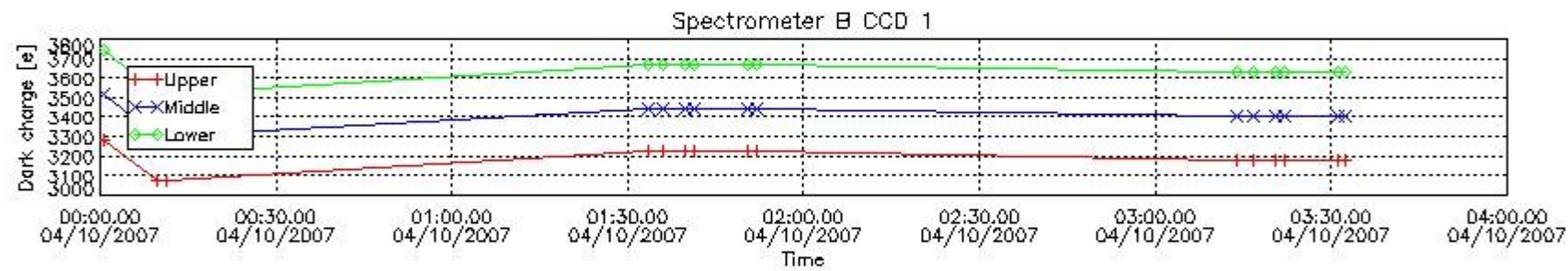
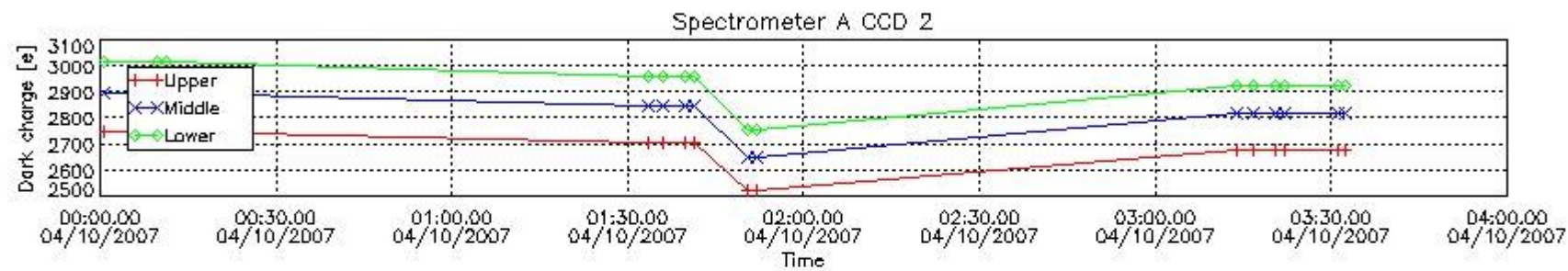
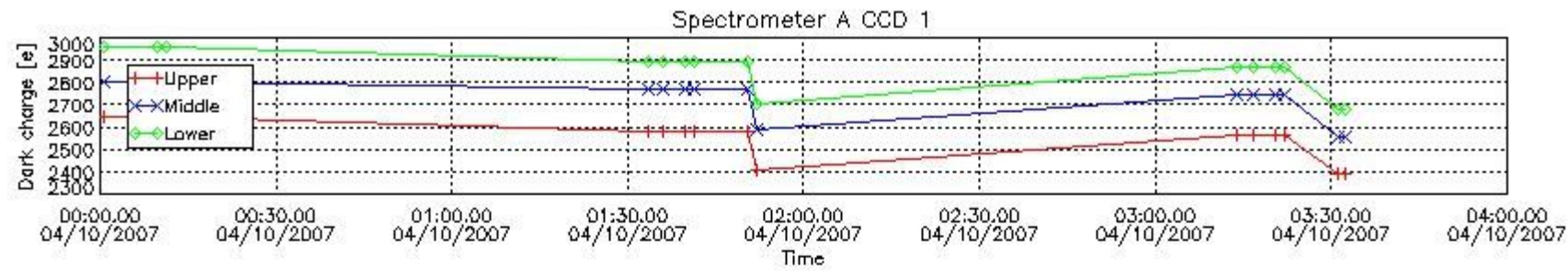
4. Overview of dark signal processing per product

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



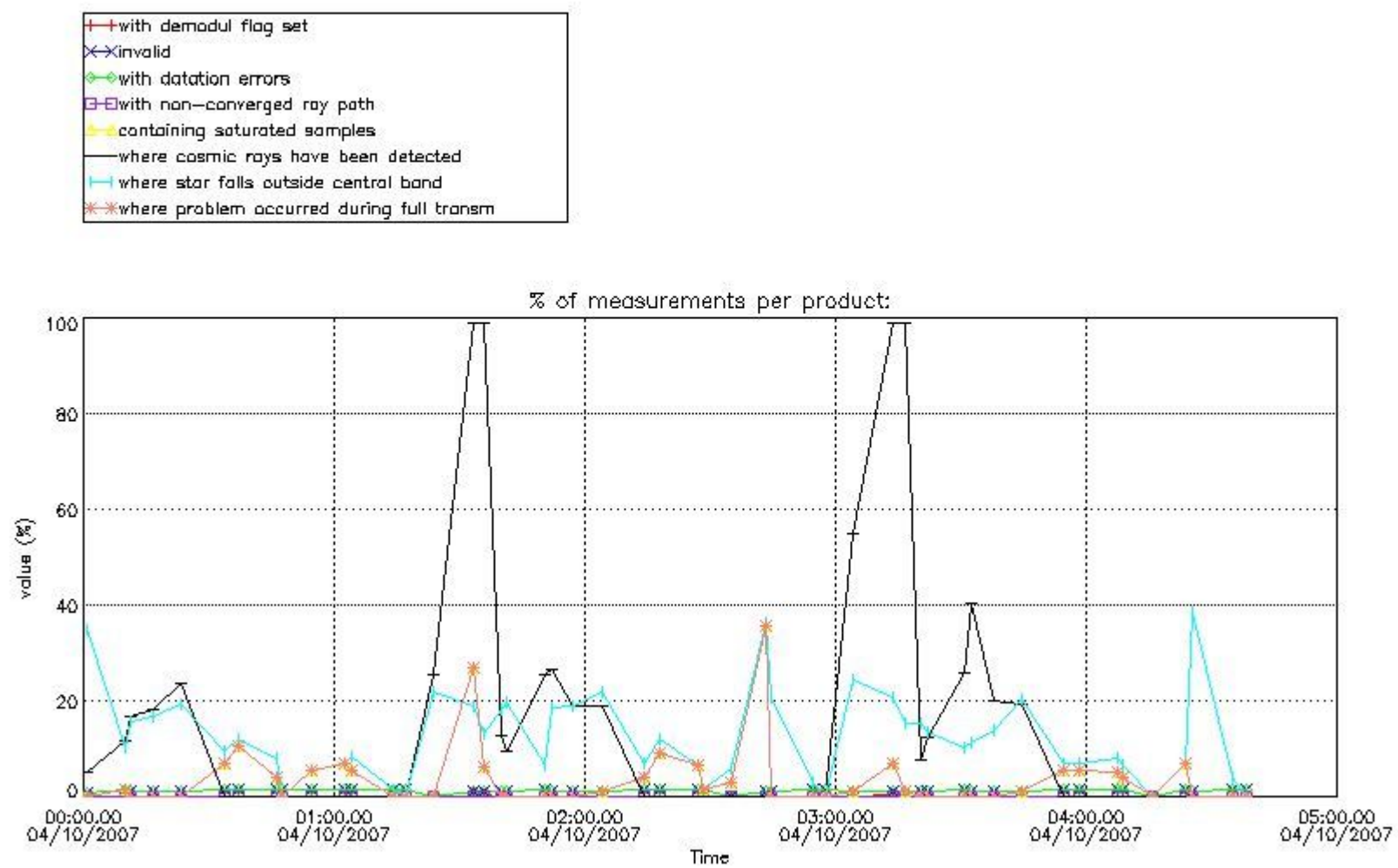
5. Demodulation flag and quality information monitoring

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.

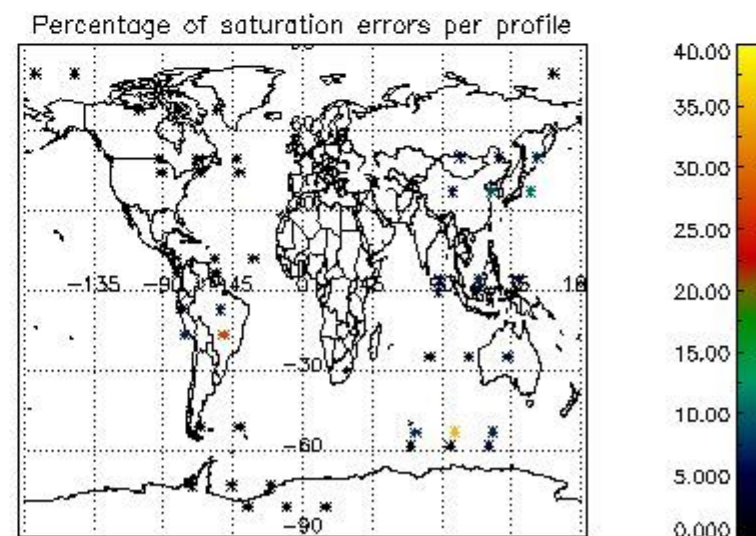
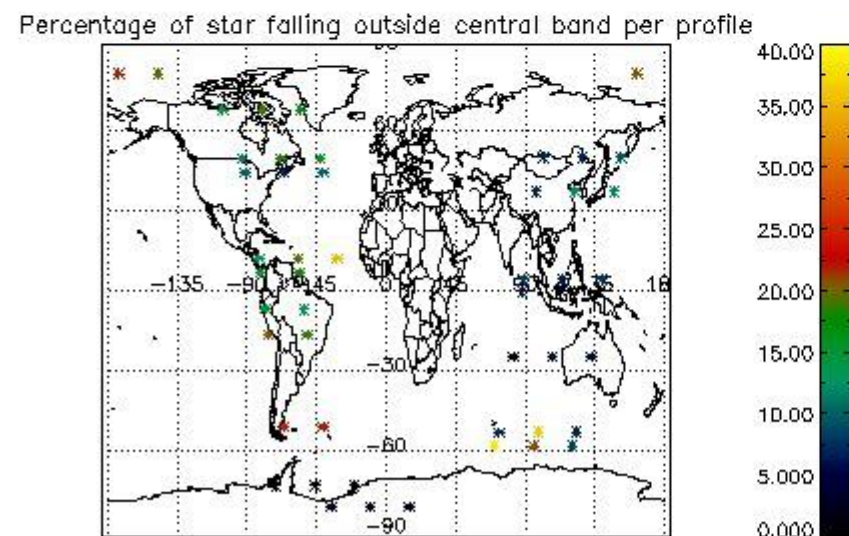
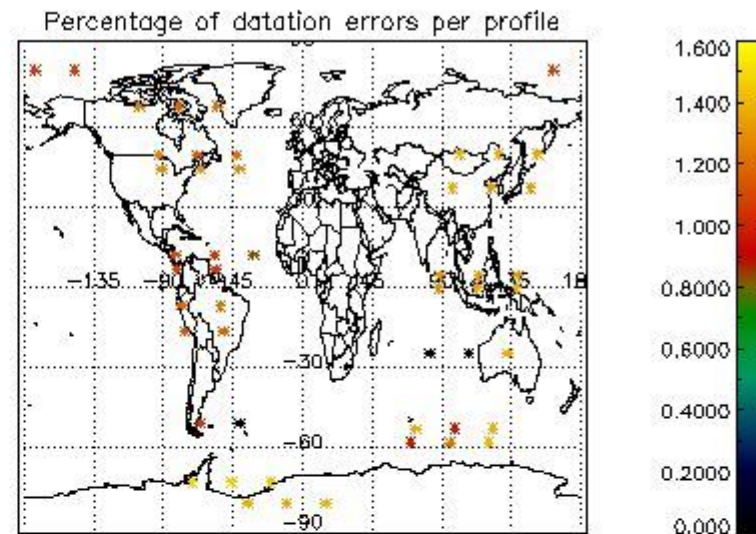
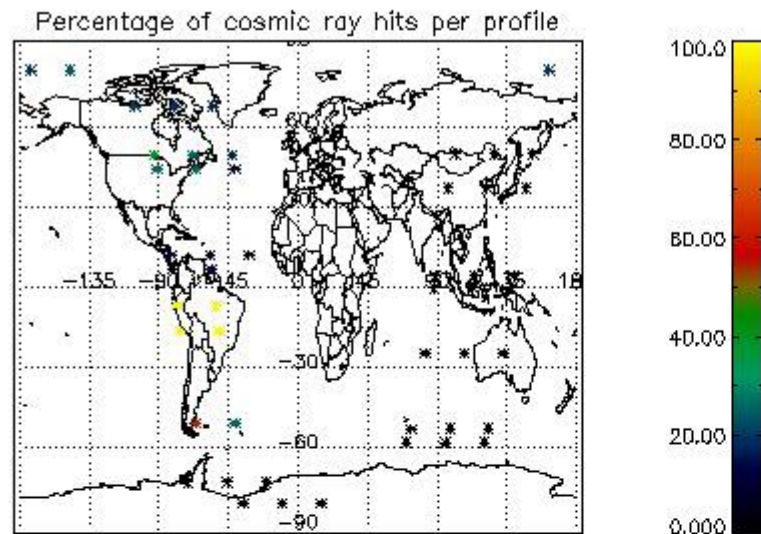
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.0000 %
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)



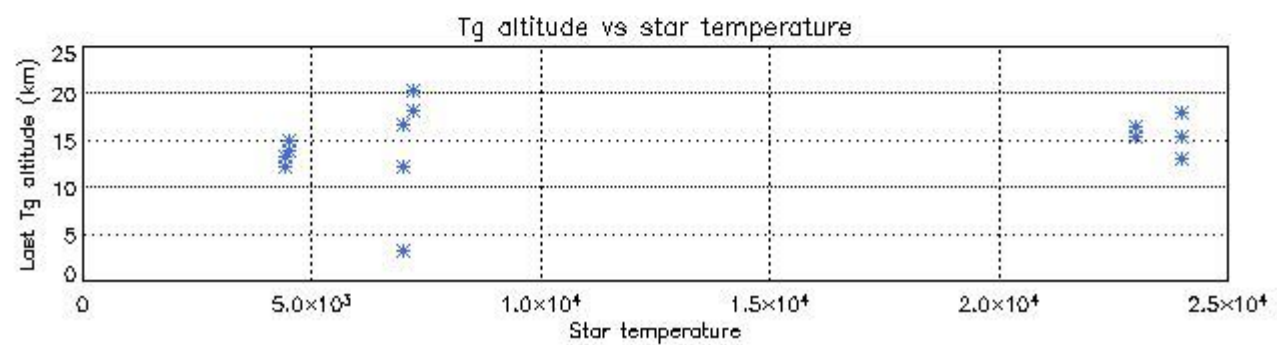
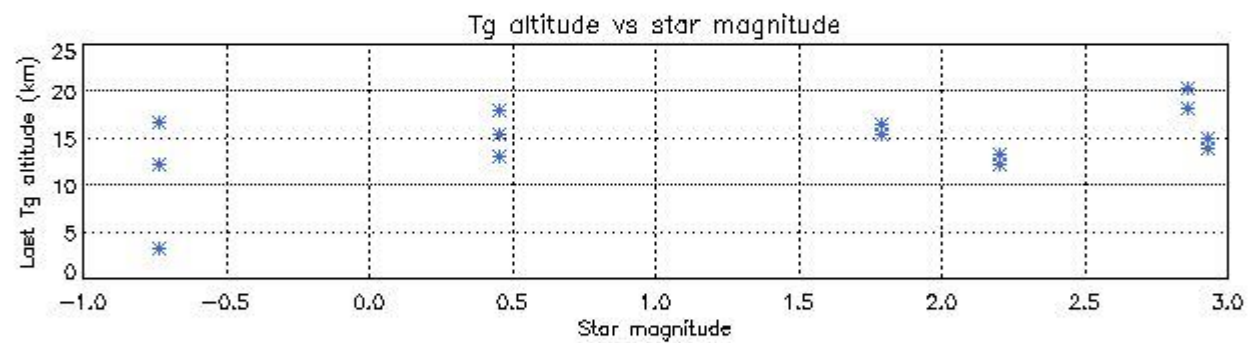
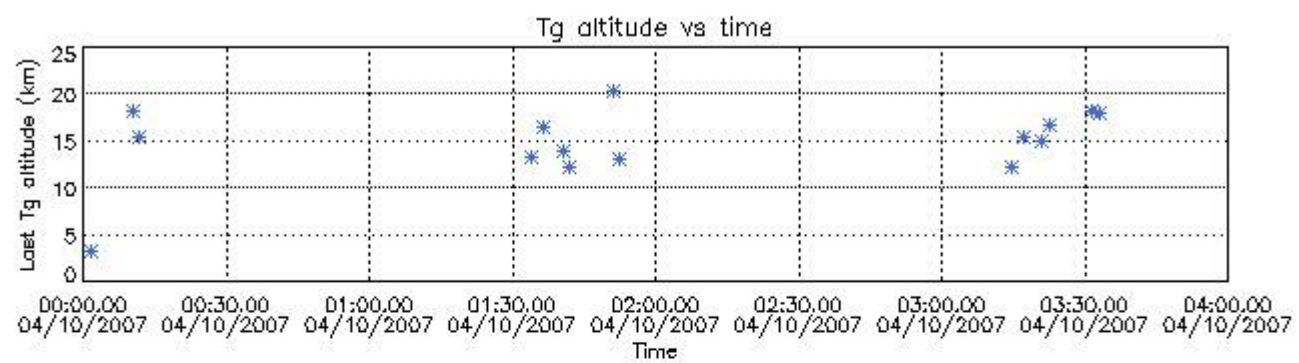
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.734	20.169	10.488
St. deviation:	4.0032	5.8205	1.1305
Maximum:	20.302	28.697	11.287
Minimum:	3.2446	3.6195	9.6886
Number of data:	15.000	27.000	2.0000

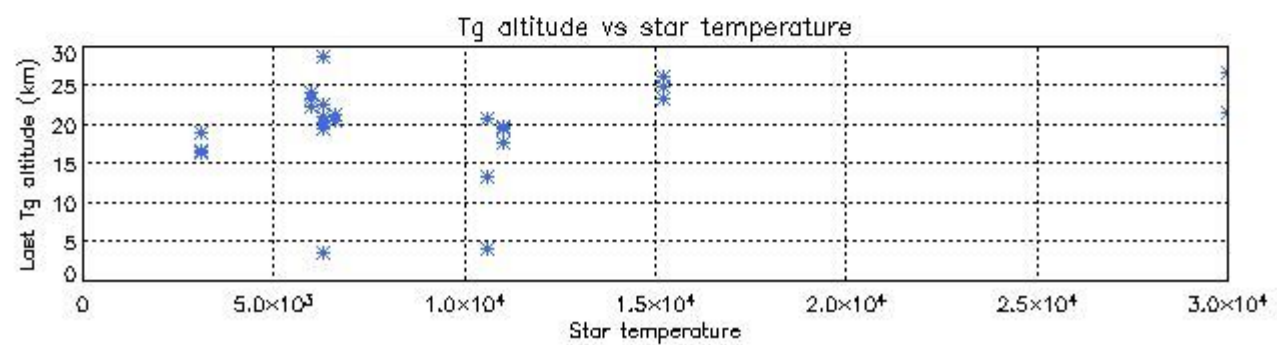
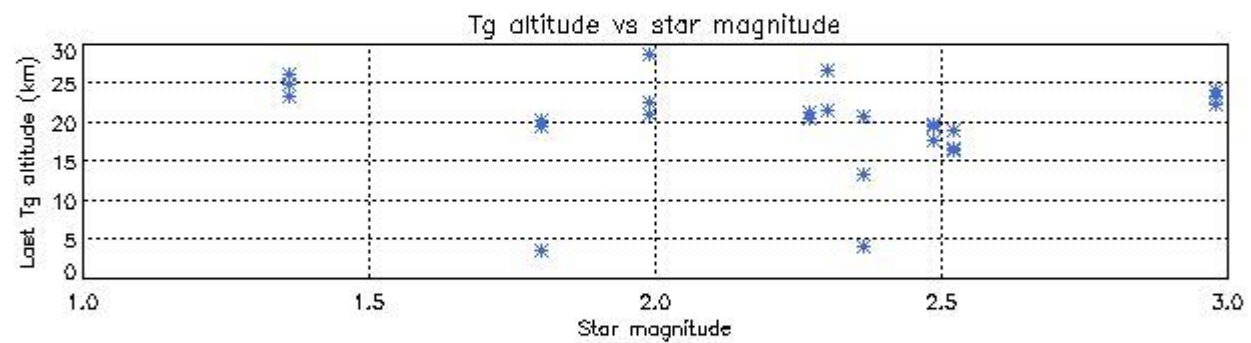
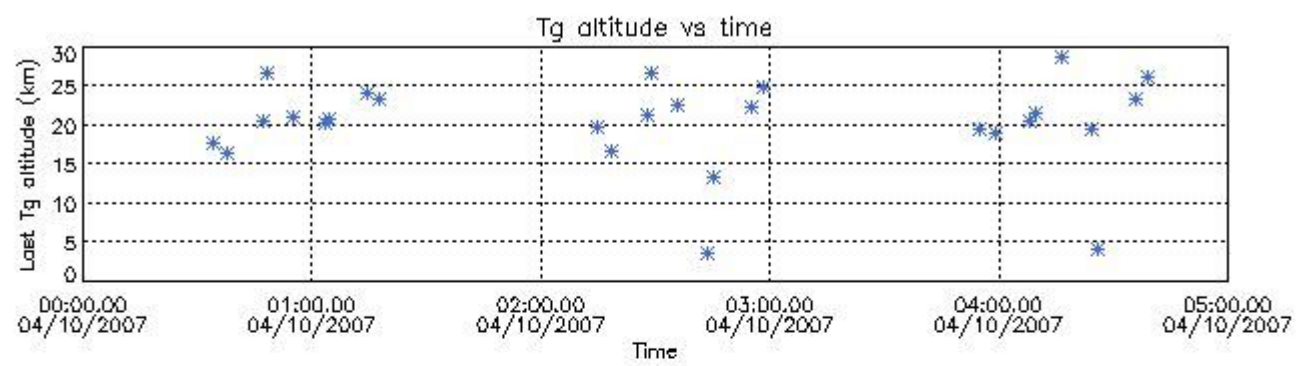
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



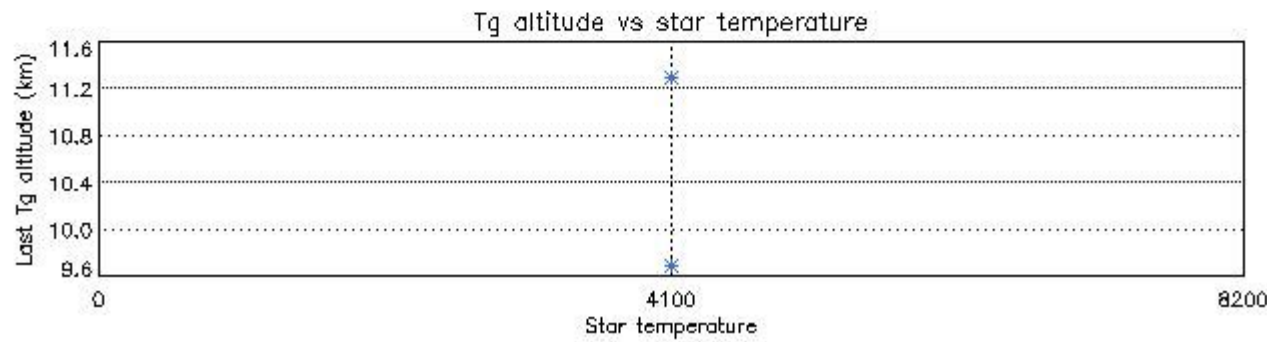
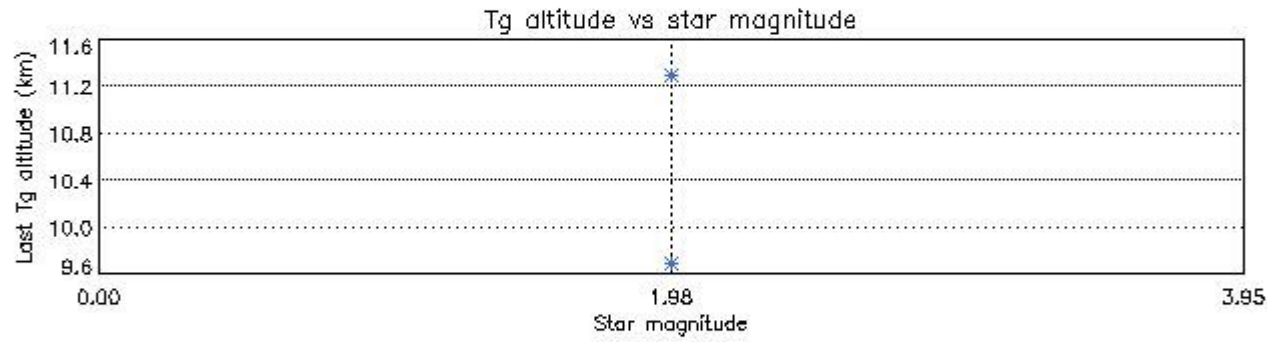
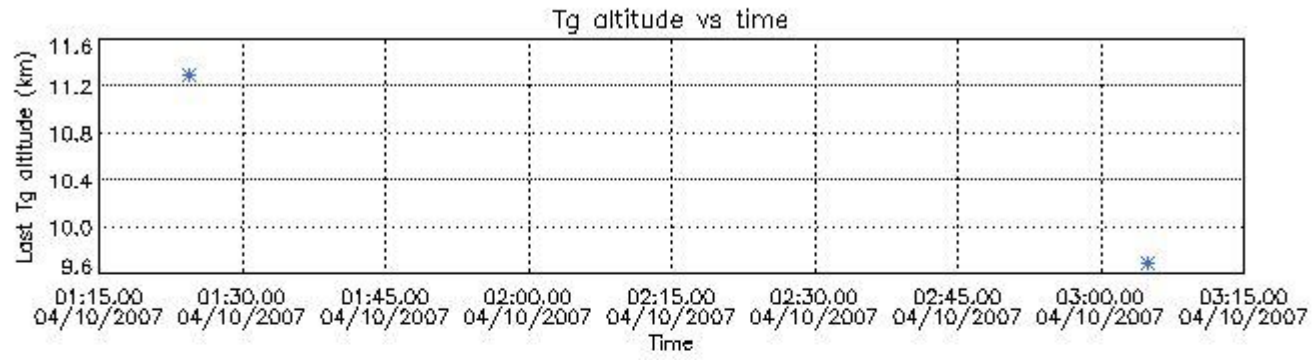
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

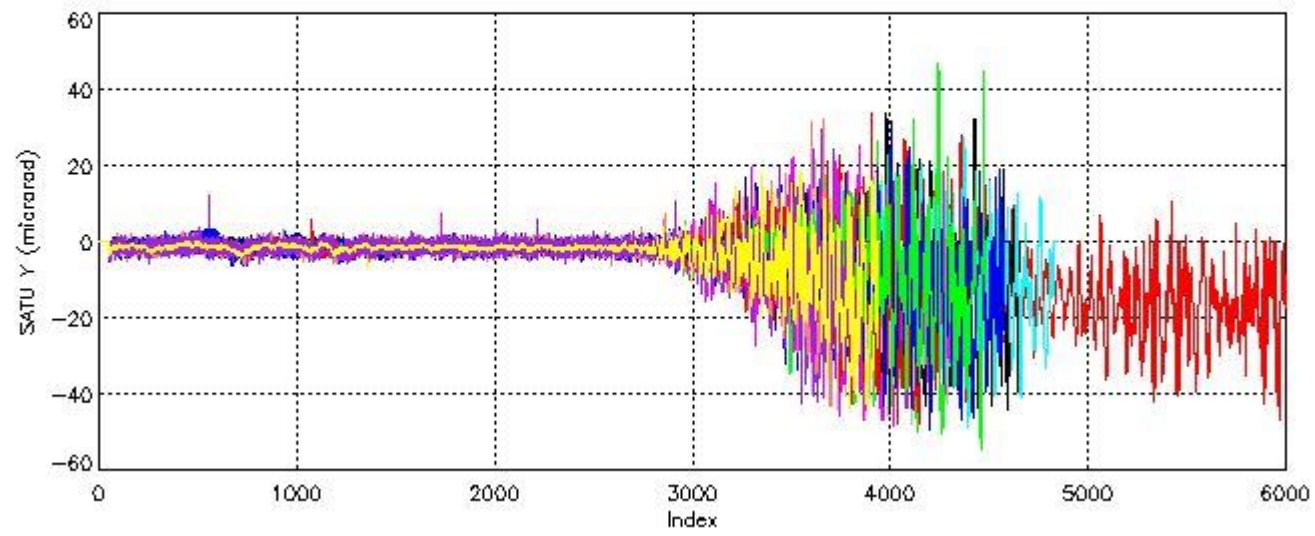
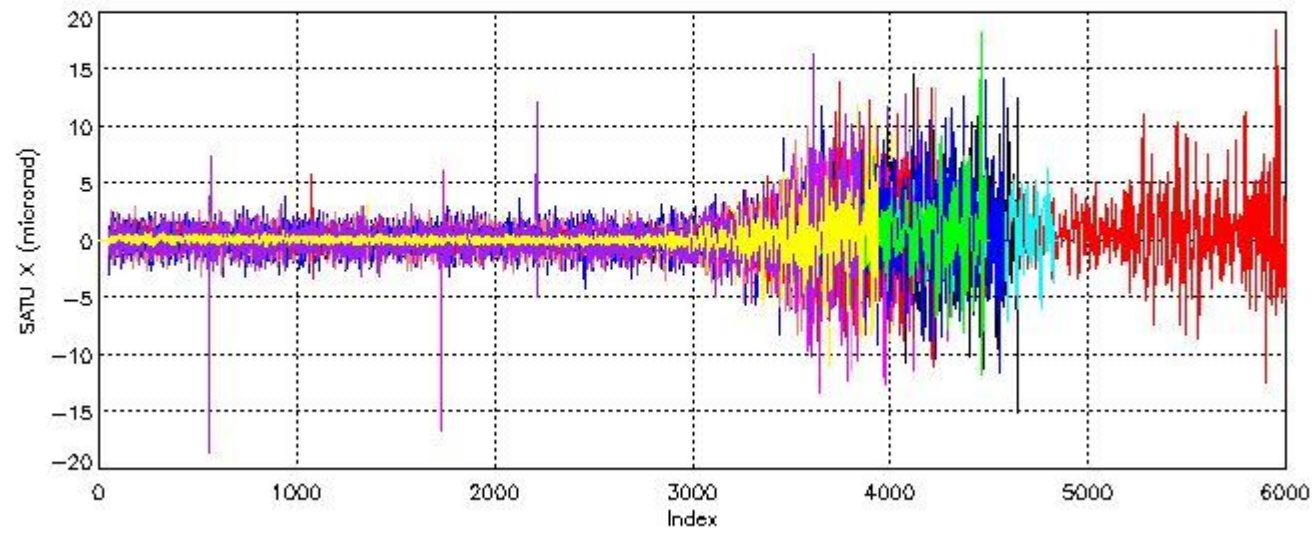


7. Star Acquisition and Tracking Unit (SATU)

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:	0.14277	-1.3047	0.024144	-1.3865
St. deviation:	0.46850	1.0199	0.65409	1.2180
Maximum:	7.3000	11.900	3.5000	4.2000
Minimum:	-18.600	-6.4000	-4.2000	-7.3000

Number of data:	14100.	14100.	22450.	22450.
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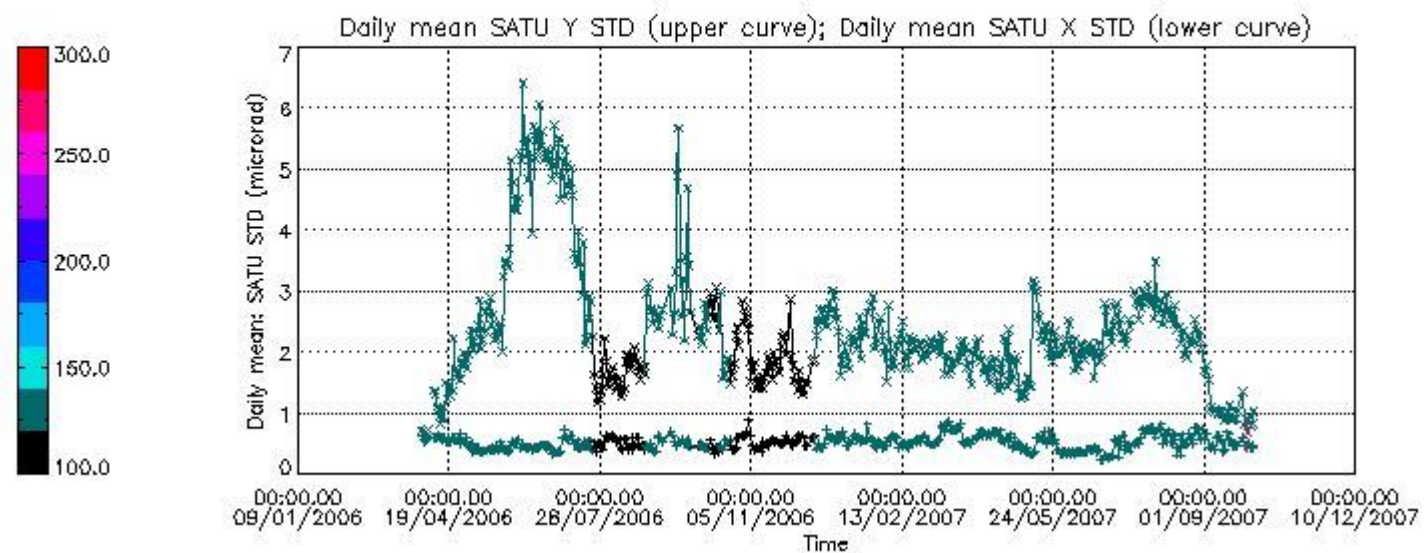
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

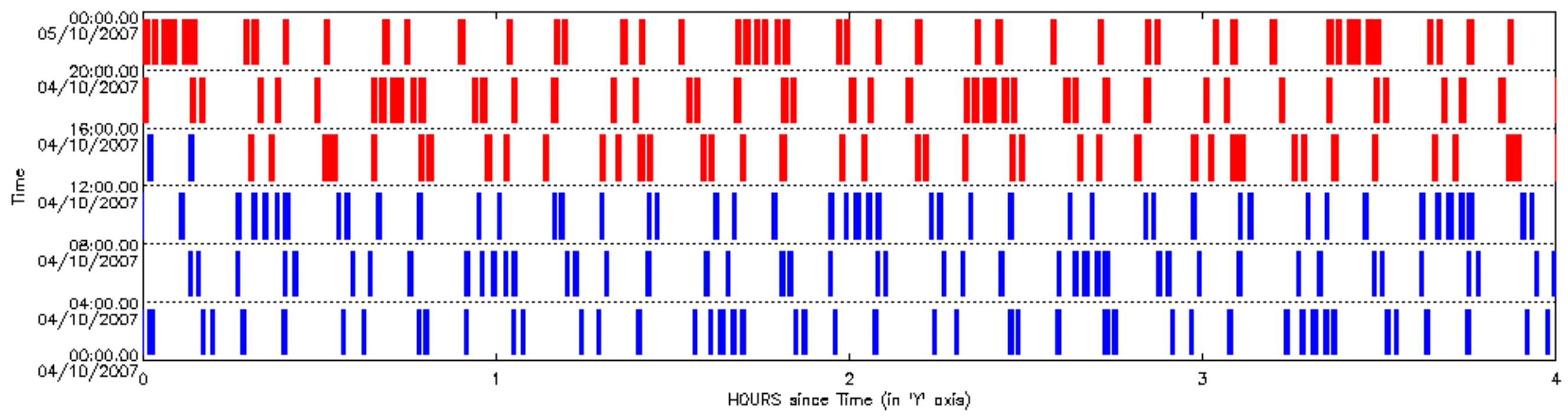
Lower curve: STD of SATU X axis

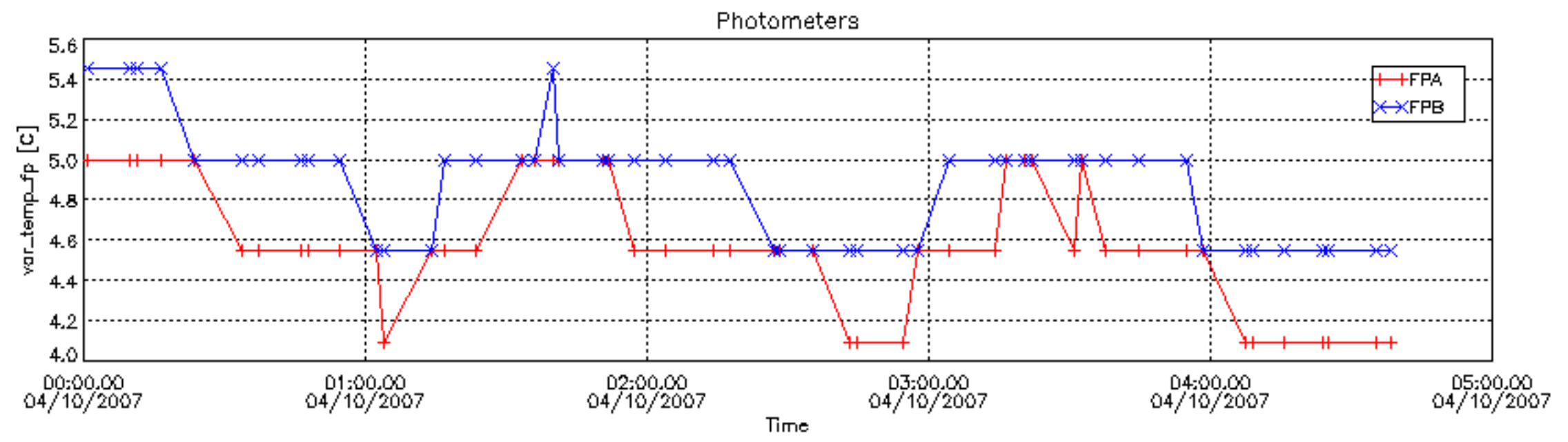
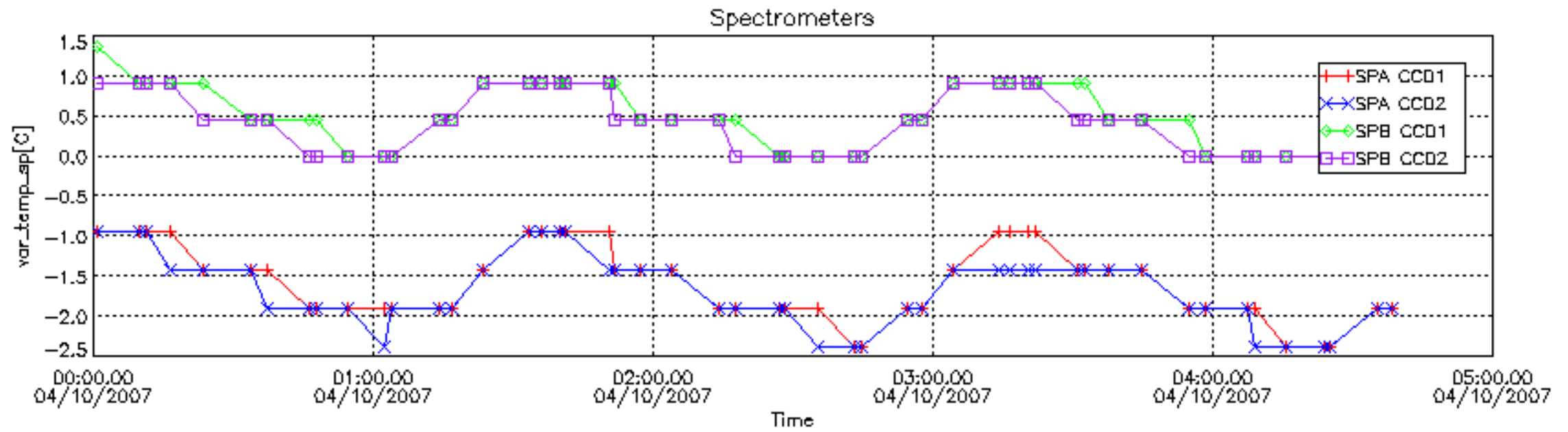


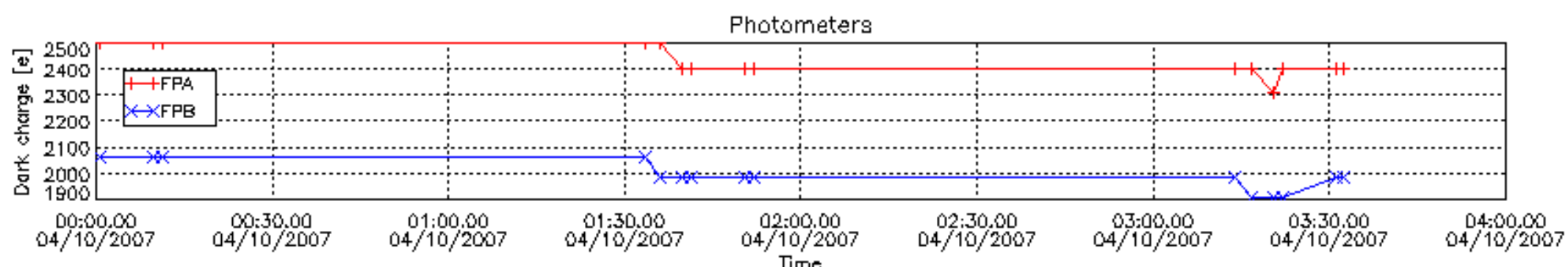
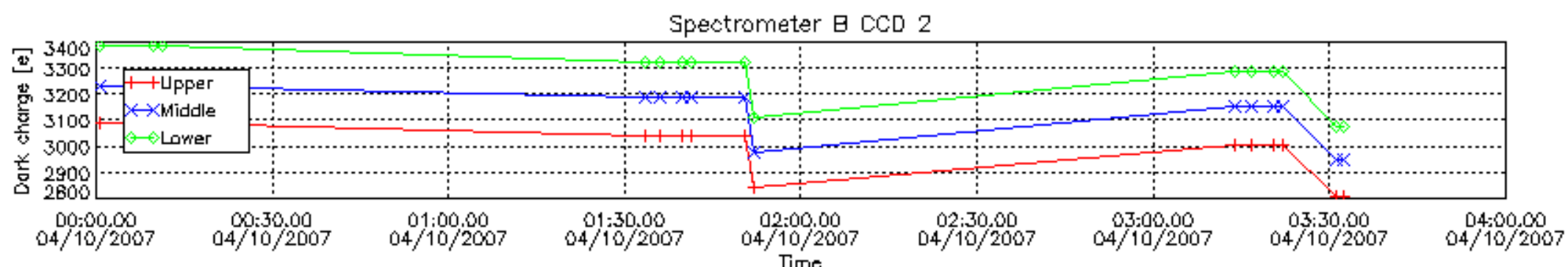
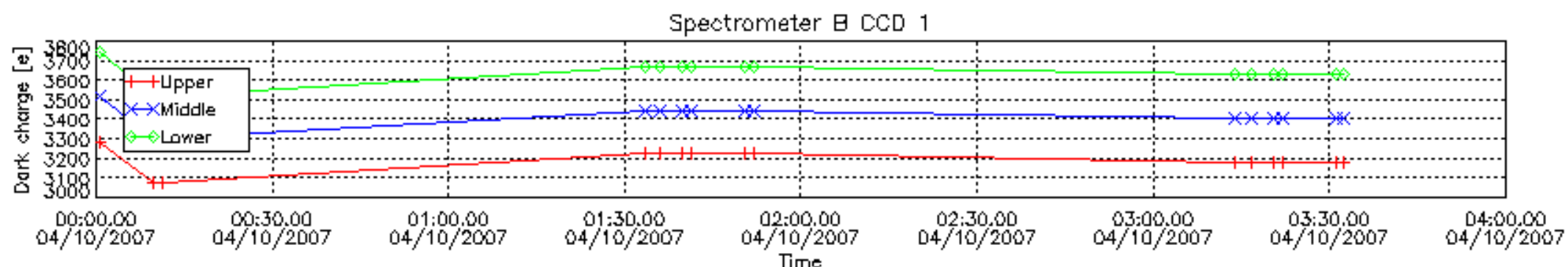
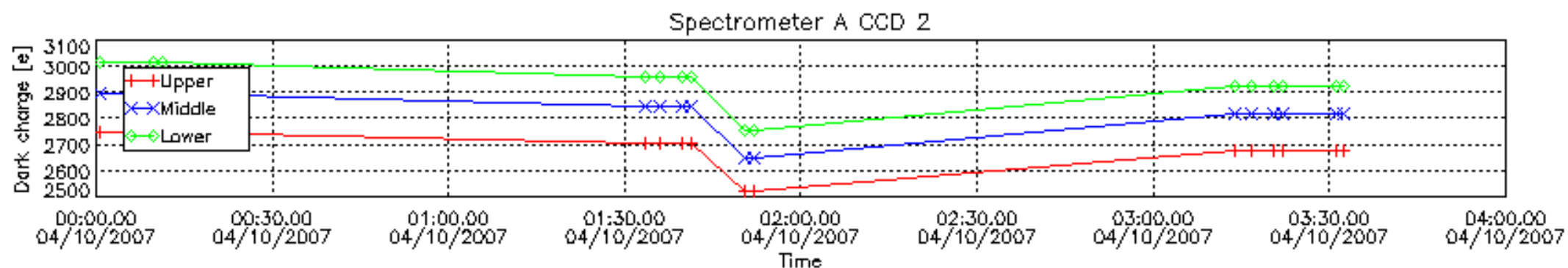
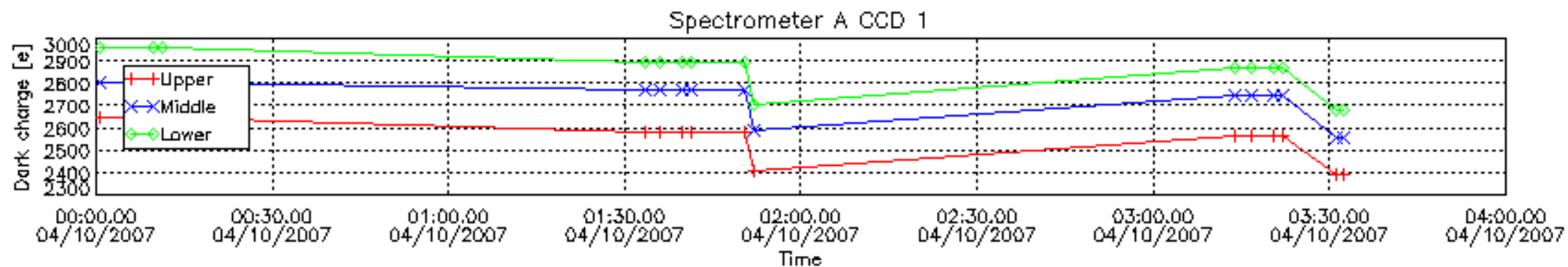
8. Auxiliary Data Files used for the production reported in section 2.4

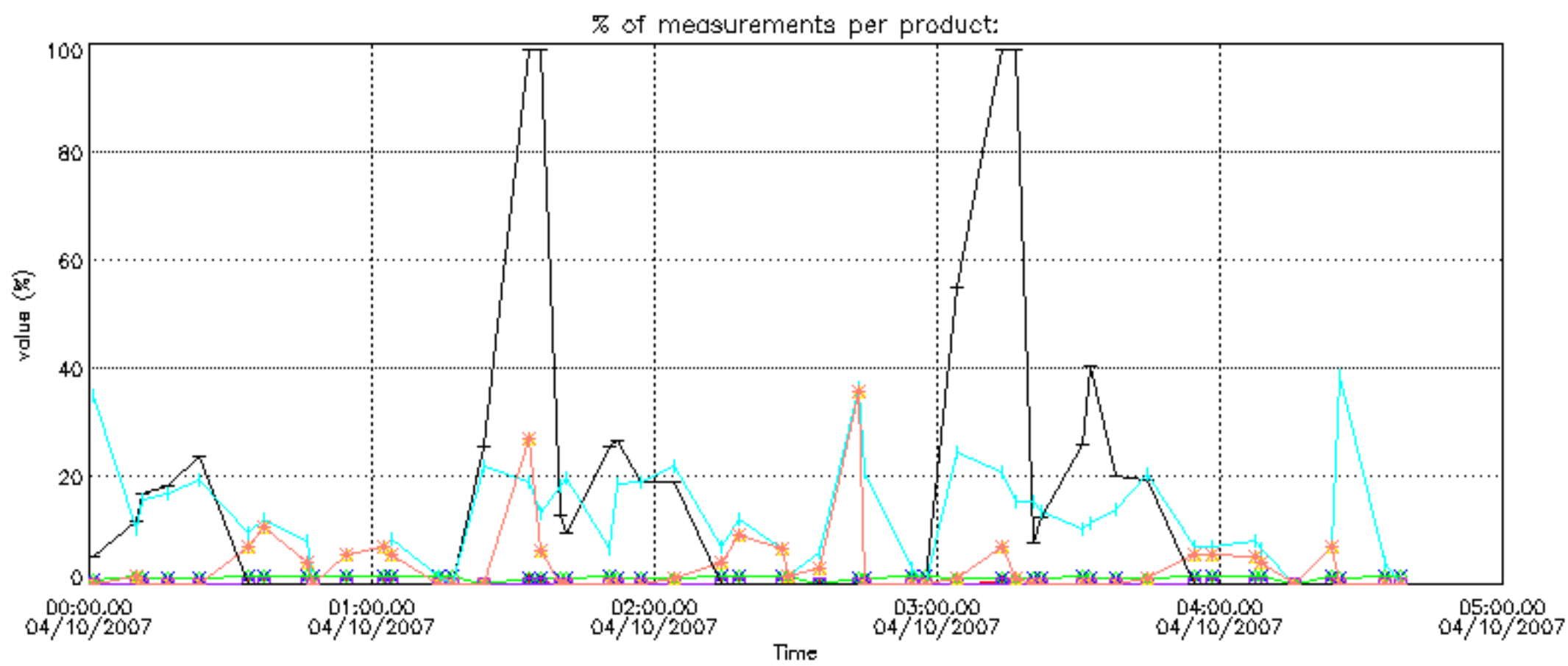
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	04-OCT-2007 00:00:41
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070928_104909_20070927_000000_20100101_000000	1	04-OCT-2007 00:00:41
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	04-OCT-2007 00:00:41
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-OCT-2007 00:00:41
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	04-OCT-2007 00:00:41
ECMWF_FILE	AUX_ECF_AXNECM20071003_060112_20071003_210000_20071004_090000	1	04-OCT-2007 00:00:41
ECMWF_FILE	AUX_ECF_AXNECM20071003_184503_20071004_030000_20071004_150000	47	04-OCT-2007 04:23:44
OPTIONAL_ECMWF_FILE	MISSING	1	04-OCT-2007 00:00:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071003_220224_000057382062_00129_29241_4283.N1	1	04-OCT-2007 00:00:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071003_234321_000057382062_00130_29242_4284.N1	16	04-OCT-2007 01:33:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071004_012418_000038262062_00131_29243_4285.N1	29	04-OCT-2007 02:43:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071004_023322_000060572062_00132_29244_4286.N1	47	04-OCT-2007 04:23:44

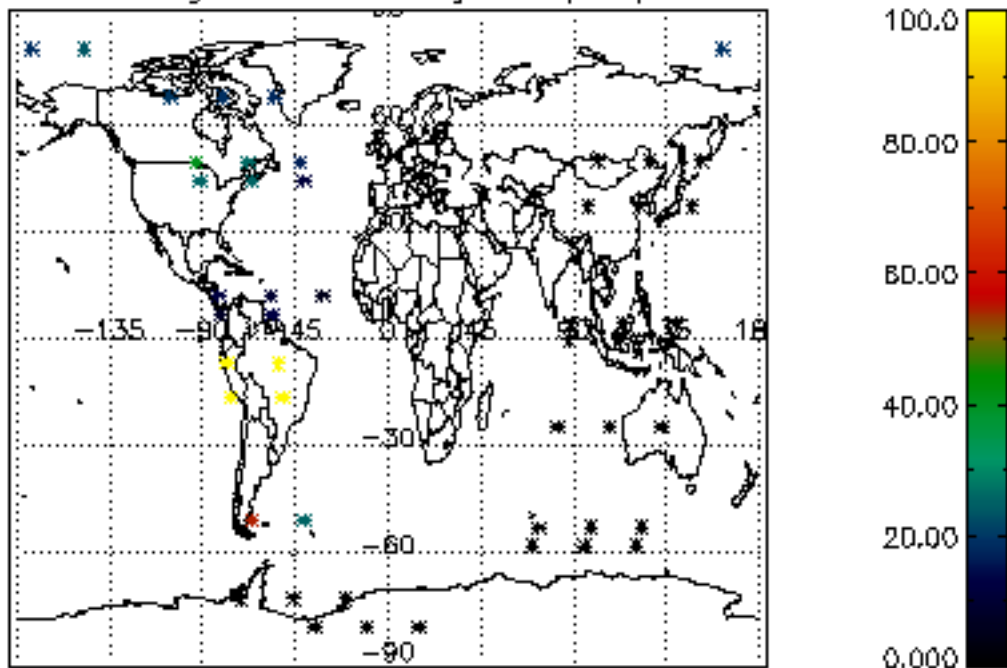




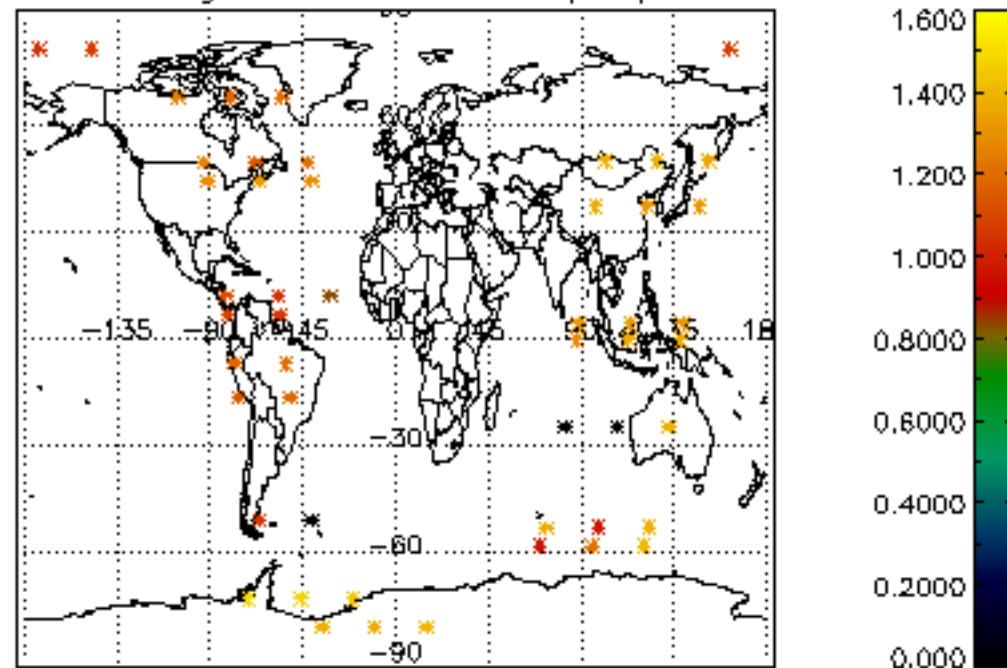




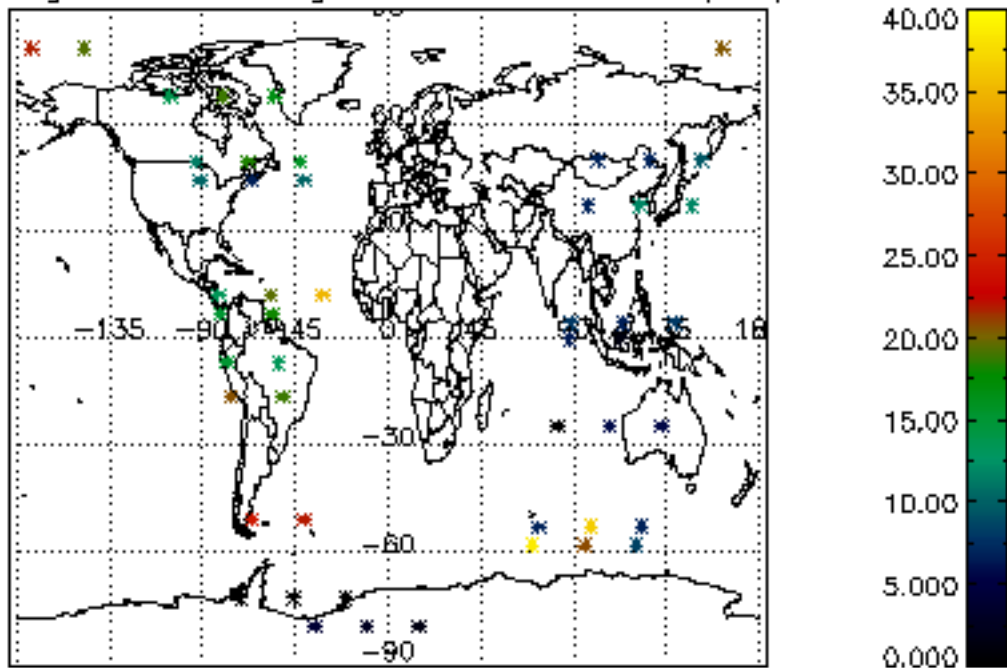
Percentage of cosmic ray hits per profile



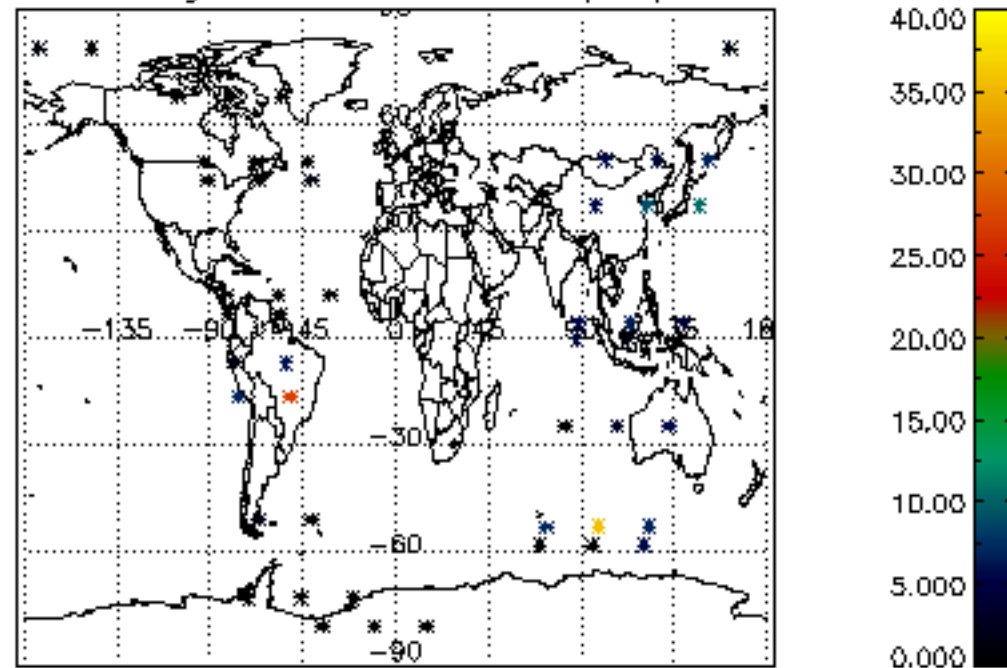
Percentage of datation errors per profile



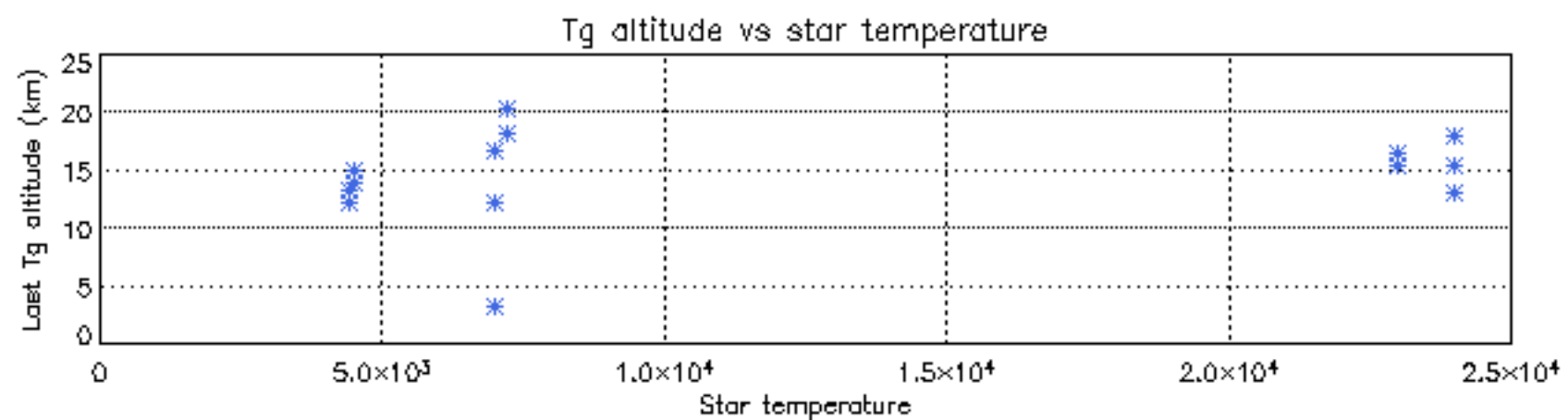
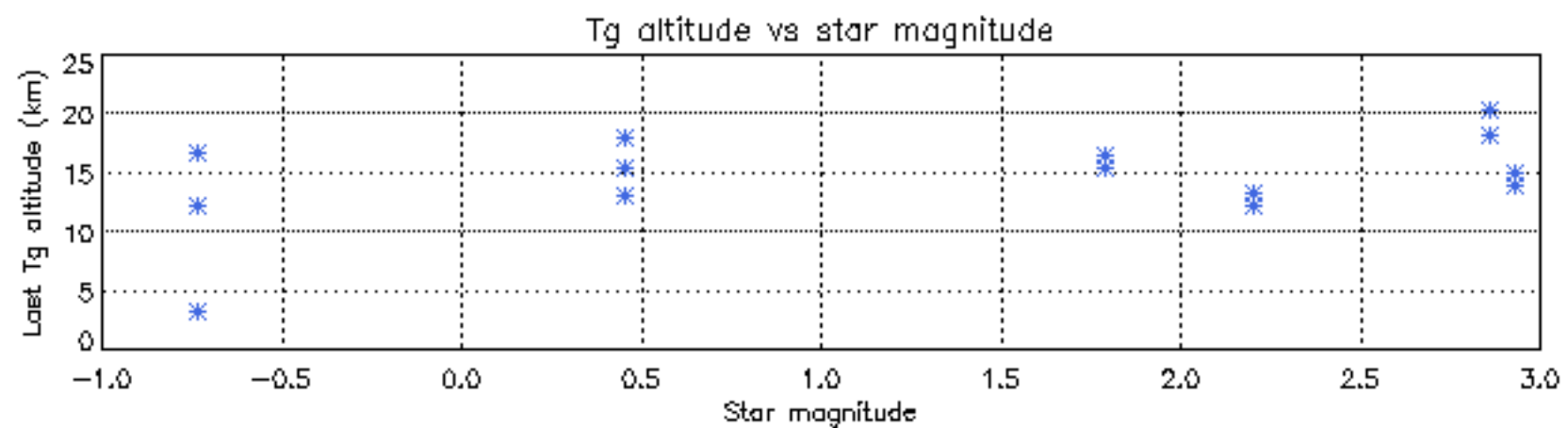
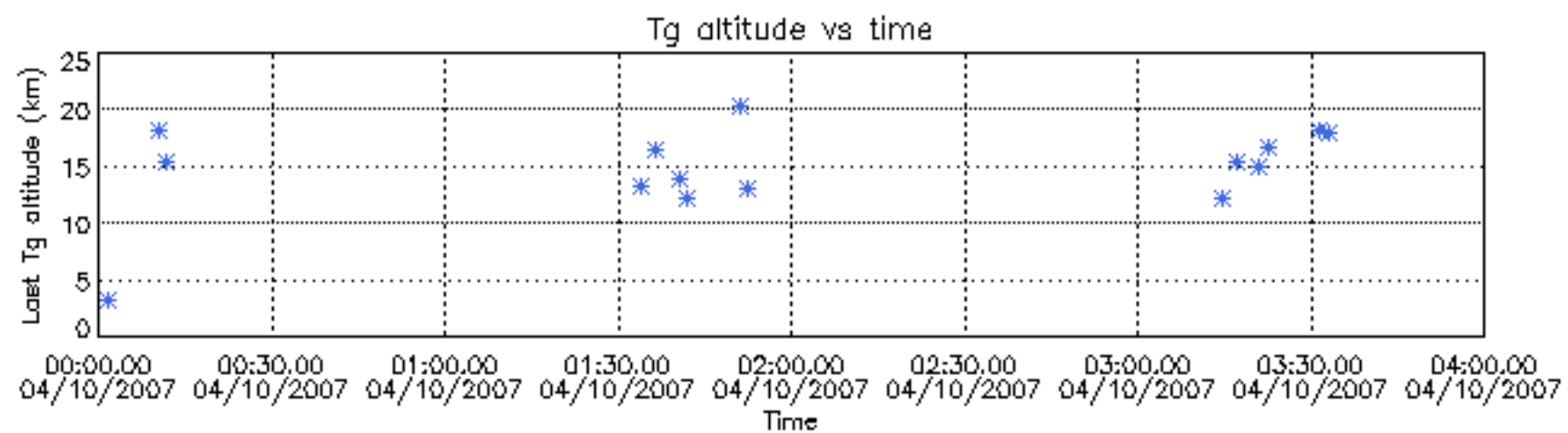
Percentage of star falling outside central band per profile



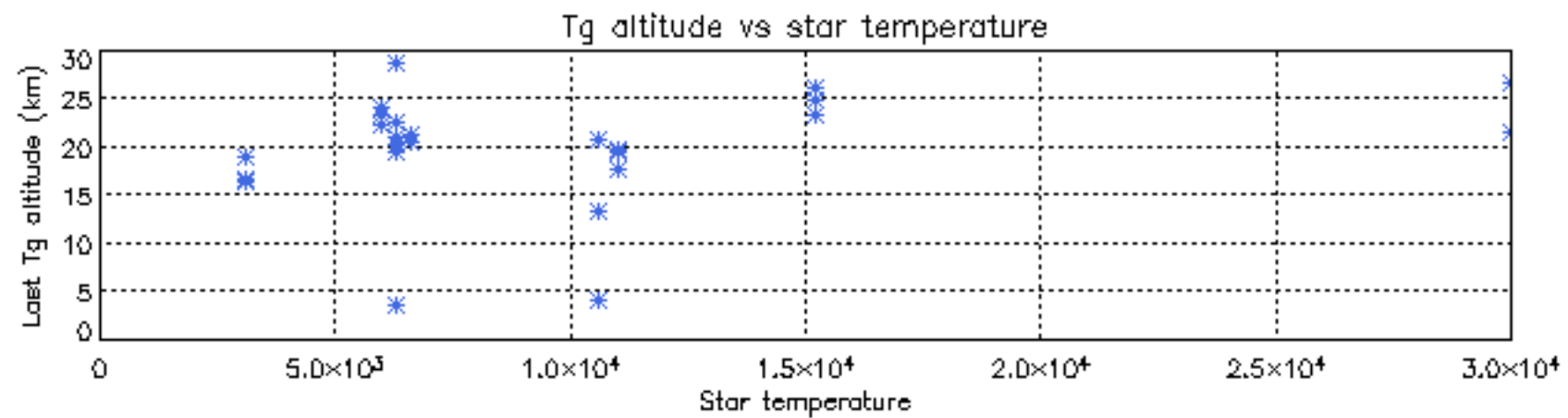
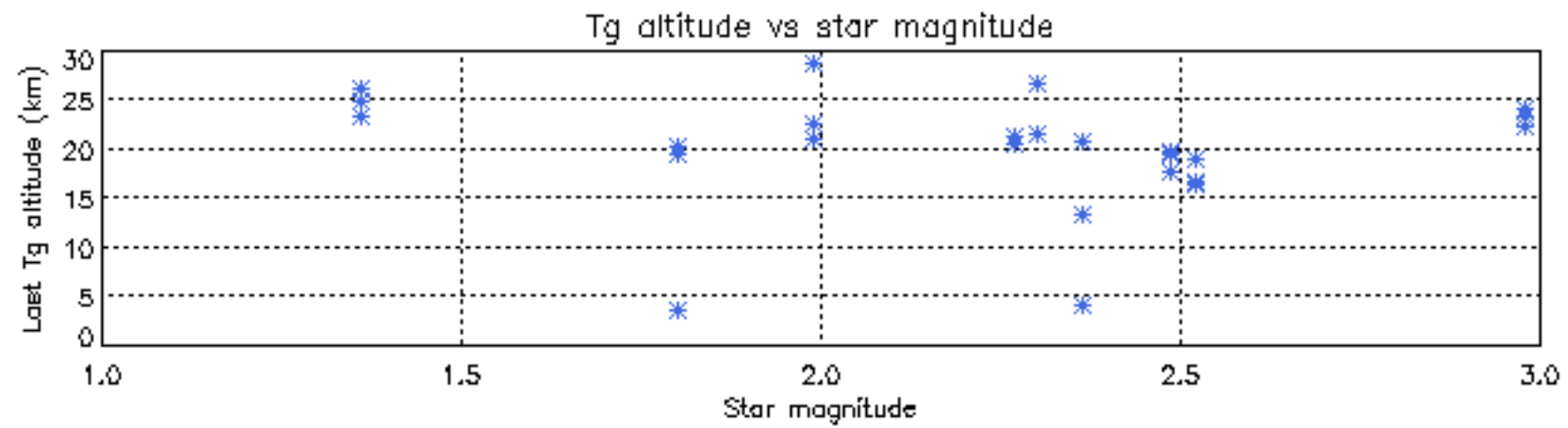
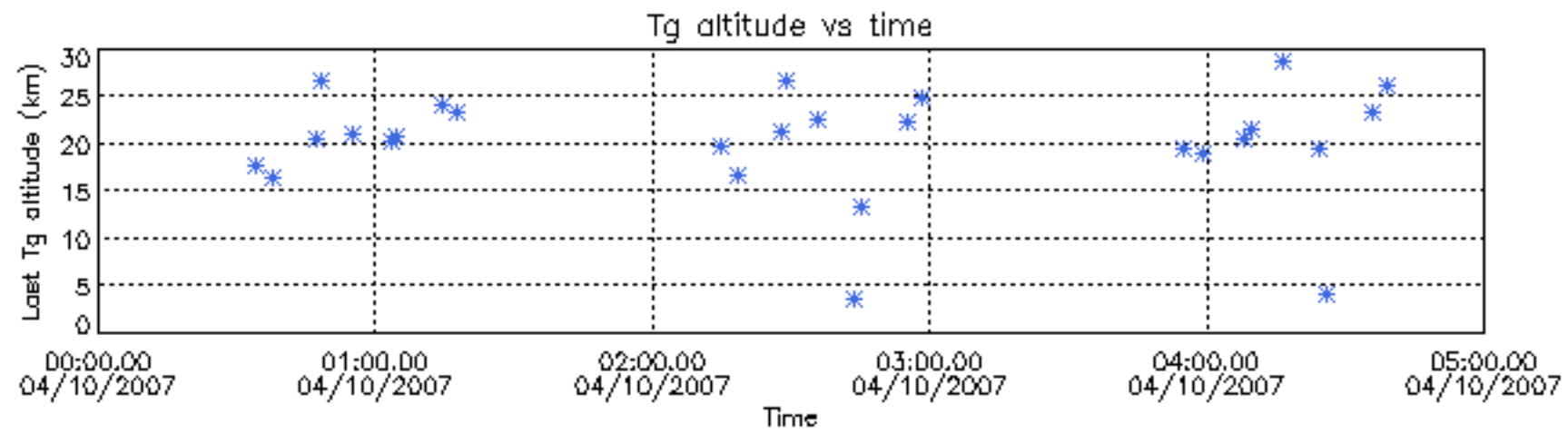
Percentage of saturation errors per profile



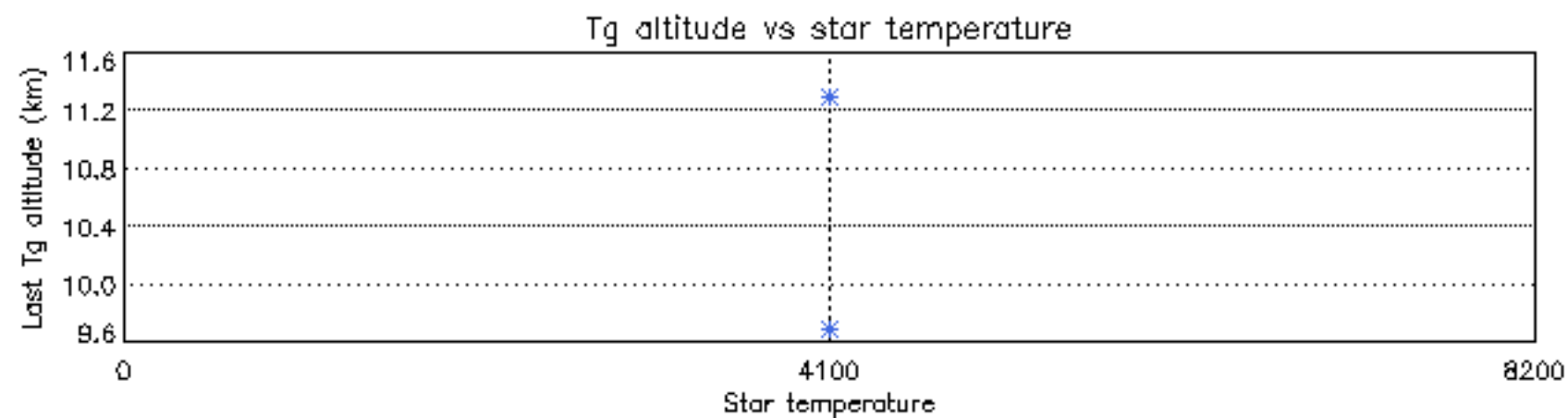
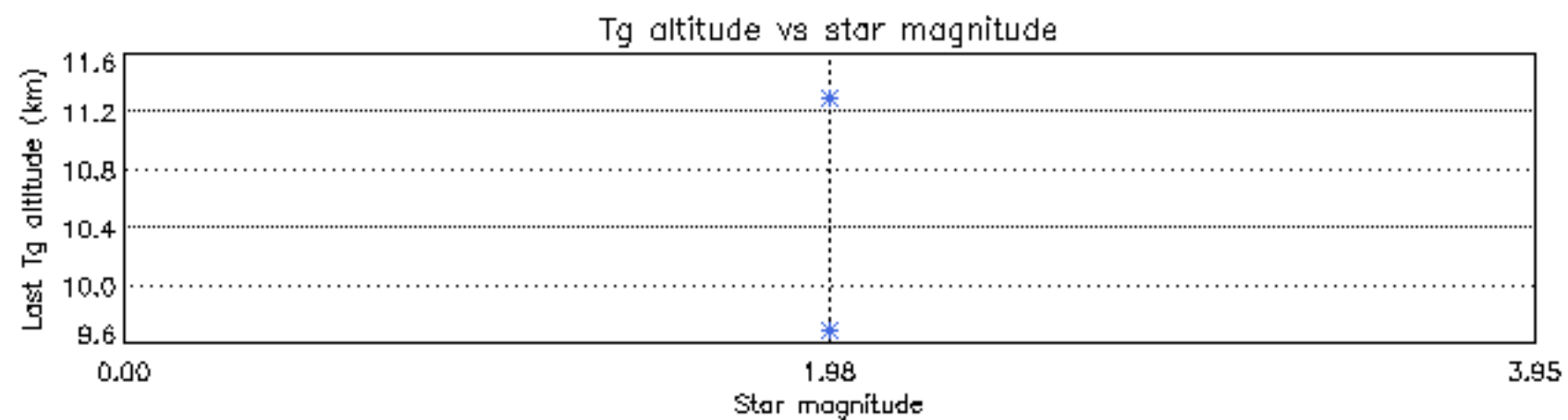
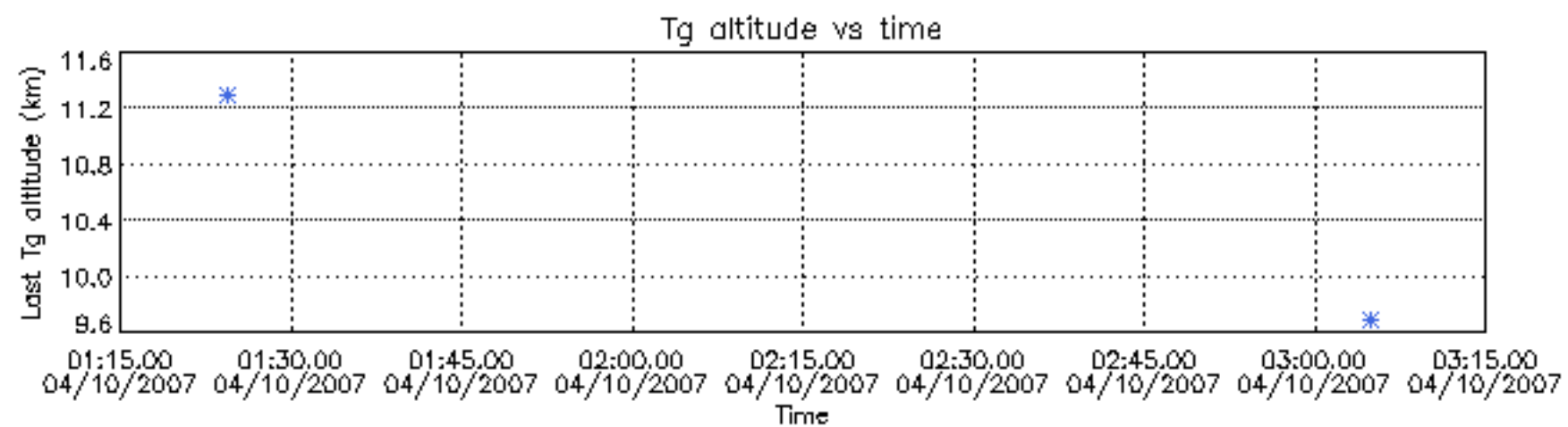
Tangent altitude at which the star is lost

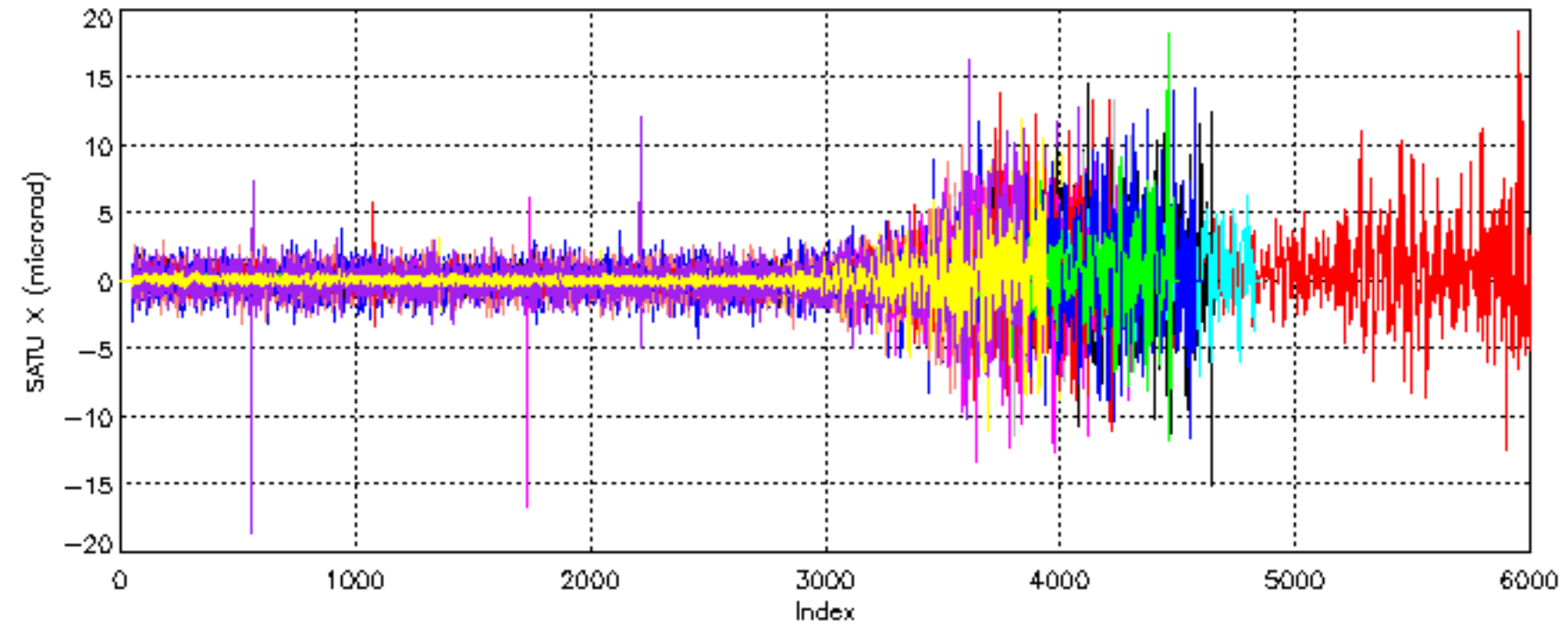


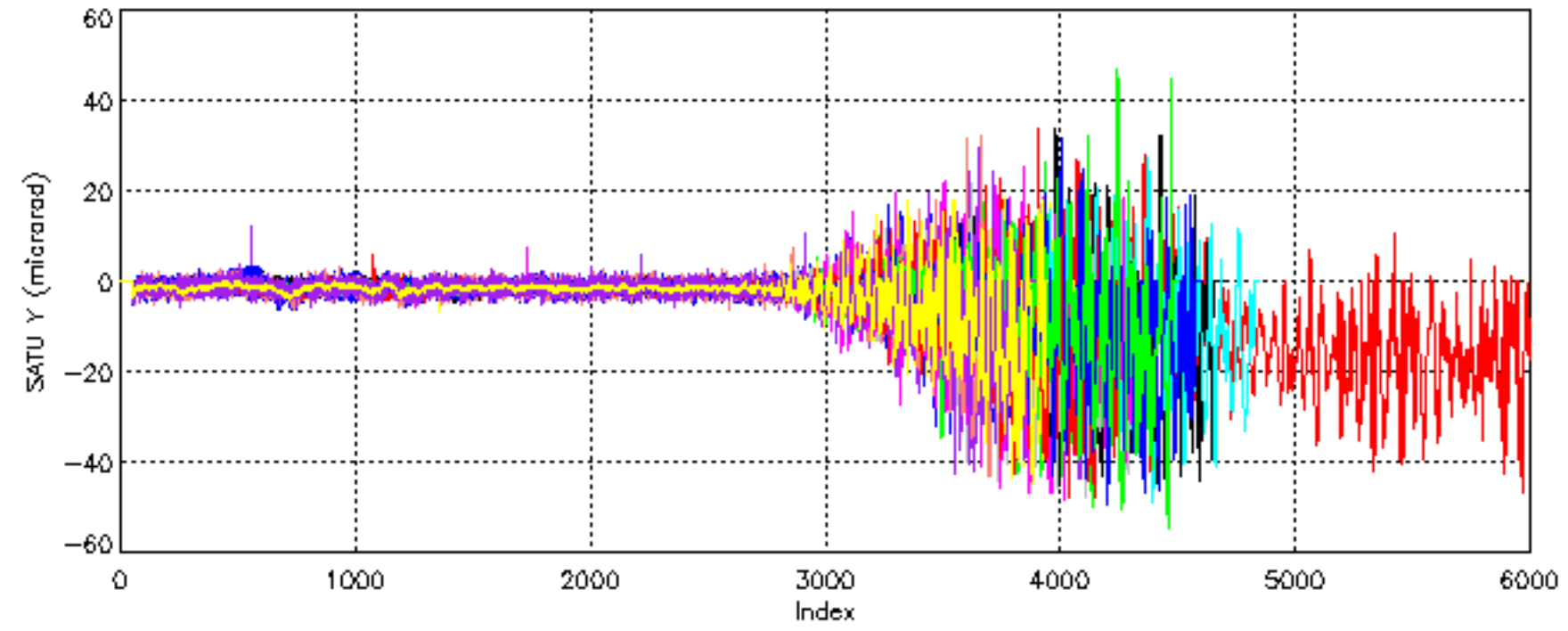
Tangent altitude at which the star is lost

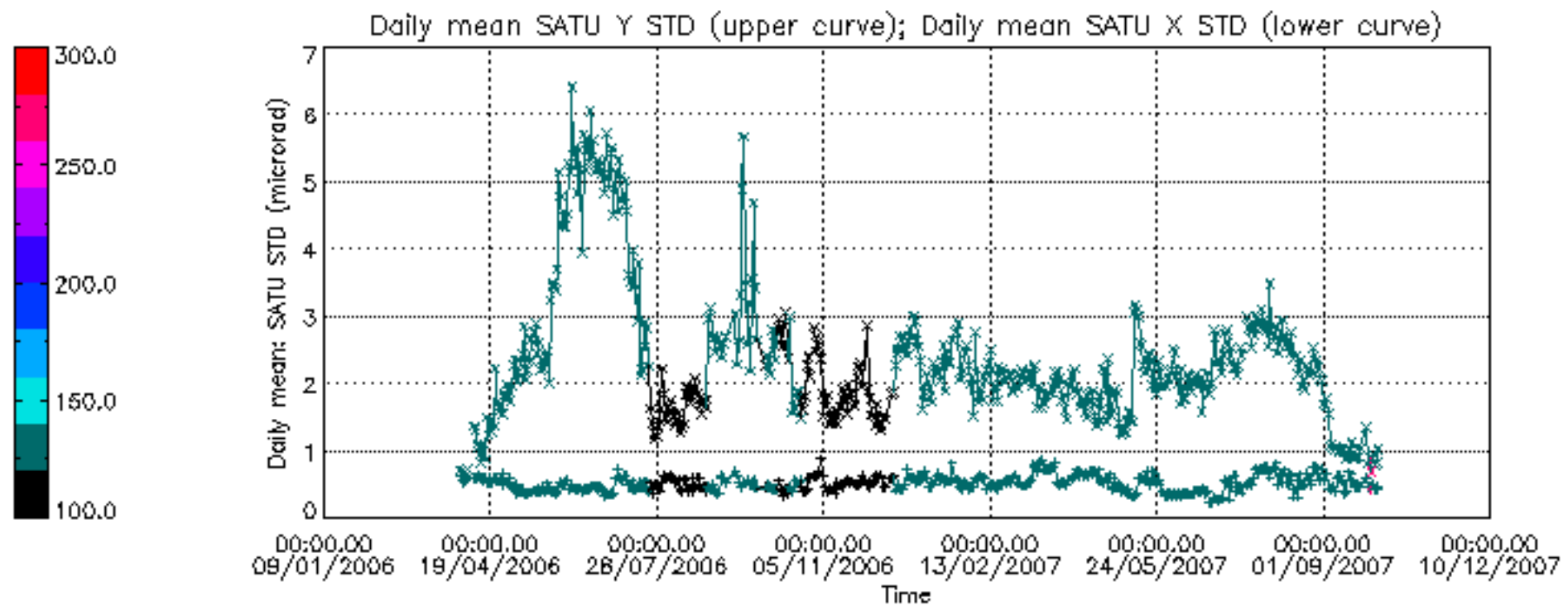


Tangent altitude at which the star is lost









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 2; -296.3; 01-OCT-2007 01:27:17; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29200
 3; -142.0; 01-OCT-2007 01:29:52; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;29200
 4; 82.2; 01-OCT-2007 01:33:36; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29201
 5; 166.3; 01-OCT-2007 01:35:00; Dark ; 59.0; 2; Alp Car ;-0.74; 7000;occ; 118; 0;29201
 6; 729.7; 01-OCT-2007 01:44:23; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29201
 7; 817.4; 01-OCT-2007 01:45:51; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29201
 8; 1139.7; 01-OCT-2007 01:51:13; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29201
 9; 2167.3; 01-OCT-2007 02:08:21; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29201
10; 2386.2; 01-OCT-2007 02:12:00; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29201
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 4; -876.7; 01-OCT-2007 02:58:13; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29201
 5; -295.8; 01-OCT-2007 03:07:54; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29201
 6; -141.4; 01-OCT-2007 03:10:28; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;29201
 7; 83.0; 01-OCT-2007 03:14:13; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29202
 8; 167.1; 01-OCT-2007 03:15:37; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29202
 9; 730.2; 01-OCT-2007 03:25:00; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29202
10; 817.9; 01-OCT-2007 03:26:28; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;29202
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16; 2952.5; 01-OCT-2007 05:42:38; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;29203
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15; 5963.1; 05-OCT-2007 19:31:44; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29268
16; 6058.5; 05-OCT-2007 19:33:20; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;29268
17; 6170.1; 05-OCT-2007 19:35:11; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29268
18; 6254.3; 05-OCT-2007 19:36:36; Dark ; 57.5; 2; Alp Car ; -0.74; 7000;occ; 115; 0;29268
19; 6791.1; 05-OCT-2007 19:45:32; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29268
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 3; -1836.7; 06-OCT-2007 06:46:32; Bright; 45.5; 174; 52Psi UMa ; 3.00; 4400;occ; 91; 0;29275
 4; -1434.3; 06-OCT-2007 06:53:14; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29275
 5; -1247.9; 06-OCT-2007 06:56:21; Bright; 34.0; 22; 32Alp Leo ; 1.36; 15200;occ; 68; 0;29275
 6; -844.7; 06-OCT-2007 07:03:04; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29275
 7; -265.2; 06-OCT-2007 07:12:44; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;29275
 8; -174.9; 06-OCT-2007 07:14:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29275
 9; -69.8; 06-OCT-2007 07:15:59; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29275
10; 25.5; 06-OCT-2007 07:17:34; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;29276
11; 139.7; 06-OCT-2007 07:19:28; Dark ; 40.5; 161; Tau Pup ; 2.93; 4500;occ; 81; 0;29276
12; 223.9; 06-OCT-2007 07:20:53; Dark ; 60.5; 2; Alp Car ; -0.74; 7000;occ; 121; 0;29276
13; 757.8; 06-OCT-2007 07:29:47; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29276
14; 845.4; 06-OCT-2007 07:31:14; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29276
15; 1160.0; 06-OCT-2007 07:36:29; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29276
16; 1567.1; 06-OCT-2007 07:43:16; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;29276
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 3; 2389.0; 06-OCT-2007 07:56:58; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29276
 4; 2921.8; 06-OCT-2007 08:05:50; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29276

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6; 3427.7; 06-OCT-2007 08:14:16; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29276
7; 3912.3; 06-OCT-2007 08:22:21; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29276
8; 4003.5; 06-OCT-2007 08:23:52; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29276
9; 4199.4; 06-OCT-2007 08:27:08; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68; 0;29276
10; 4601.8; 06-OCT-2007 08:33:51; Bright; 36.5; 166; 17Eps Leo ; 2.98; 6000;occ; 73; 0;29276
11; 4788.4; 06-OCT-2007 08:36:57; Bright; 35.0; 22; 32Alp Leo ; 1.36; 15200;occ; 70; 0;29276
12; 5191.7; 06-OCT-2007 08:43:40; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29276
13; 5771.2; 06-OCT-2007 08:53:20; Dark ; 52.0; 65; Lam Vel ; 2.20; 4400;occ; 104; 0;29276
14; 5861.5; 06-OCT-2007 08:54:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29276
15; 5966.6; 06-OCT-2007 08:56:35; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;29276
16; 6061.9; 06-OCT-2007 08:58:11; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;29276
17; 6176.4; 06-OCT-2007 09:00:05; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;29276
18; 6260.6; 06-OCT-2007 09:01:29; Dark ; 42.0; 2; Alp Car ;-0.74; 7000;occ; 84; 0;29276
19; 6794.1; 06-OCT-2007 09:10:23; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29276
20; 6881.6; 06-OCT-2007 09:11:50; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29276
21; 7196.1; 06-OCT-2007 09:17:05; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29276
22; 7603.2; 06-OCT-2007 09:23:52; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;29276

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2; -260.2; 07-OCT-2007 01:39:24; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29286
3; -162.5; 07-OCT-2007 01:41:01; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;29286
4; -65.3; 07-OCT-2007 01:42:38; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29286
5; 20.2; 07-OCT-2007 01:44:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29287
6; 148.3; 07-OCT-2007 01:46:12; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29287
7; 232.3; 07-OCT-2007 01:47:36; Dark ; 58.0; 2; Alp Car ;-0.74; 7000;occ; 116; 0;29287
8; 761.5; 07-OCT-2007 01:56:25; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29287
9; 849.0; 07-OCT-2007 01:57:53; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;29287
10; 1162.6; 07-OCT-2007 02:03:06; Dark ; 39.0; 84; Alp Phe ; 2.40; 4500;occ; 78; 0;29287
11; 1568.6; 07-OCT-2007 02:09:52; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;29287
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13; 2389.8; 07-OCT-2007 02:23:34; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29287
14; 2918.3; 07-OCT-2007 02:32:22; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29287
15; 3003.3; 07-OCT-2007 02:33:47; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29287
16; 3427.4; 07-OCT-2007 02:40:51; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29287

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2; -2031.4; 07-OCT-2007 02:50:28; Bright; 33.5; 82; 48Bet UMa ; 2.37; 10600;occ; 67; 0;29287
3; -1834.9; 07-OCT-2007 02:53:45; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29287
4; -1431.9; 07-OCT-2007 03:00:28; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29287
5; -1244.9; 07-OCT-2007 03:03:35; Bright; 34.5; 22; 32Alp Leo ; 1.36; 15200;occ; 69; 0;29287
6; -839.0; 07-OCT-2007 03:10:21; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29287
7; -259.7; 07-OCT-2007 03:20:00; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;29287
8; -161.8; 07-OCT-2007 03:21:38; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29287
9; -64.8; 07-OCT-2007 03:23:15; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;29287
10; 21.0; 07-OCT-2007 03:24:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29288
11; 149.1; 07-OCT-2007 03:26:49; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29288
12; 233.2; 07-OCT-2007 03:28:13; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;29288
13; 762.0; 07-OCT-2007 03:37:02; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29288
14; 849.6; 07-OCT-2007 03:38:29; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29288
15; 1163.0; 07-OCT-2007 03:43:43; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29288
16; 1568.9; 07-OCT-2007 03:50:29; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29288
17; 2172.5; 07-OCT-2007 04:00:32; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;29288
18; 2390.1; 07-OCT-2007 04:04:10; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29288
19; 2918.1; 07-OCT-2007 04:12:58; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29288
20; 3003.1; 07-OCT-2007 04:14:23; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29288
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3; -1834.8; 07-OCT-2007 04:34:21; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29288
4; -1431.7; 07-OCT-2007 04:41:04; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29288
5; -838.5; 07-OCT-2007 04:50:57; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29288
6; -259.4; 07-OCT-2007 05:00:36; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29288
7; -161.0; 07-OCT-2007 05:02:15; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;29288
8; -64.4; 07-OCT-2007 05:03:51; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29288
9; 21.8; 07-OCT-2007 05:05:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29289
10; 149.9; 07-OCT-2007 05:07:26; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29289

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 12; 762.3; 07-OCT-2007 05:17:38; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29289
 13; 849.9; 07-OCT-2007 05:19:06; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;29289
 14; 1163.2; 07-OCT-2007 05:24:19; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;29289
 15; 1569.0; 07-OCT-2007 05:31:05; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29289
 16; 2172.4; 07-OCT-2007 05:41:08; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29289
 17; 2390.2; 07-OCT-2007 05:44:46; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29289
 18; 2917.8; 07-OCT-2007 05:53:34; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29289
 19; 3002.8; 07-OCT-2007 05:54:59; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29289
 20; 3427.5; 07-OCT-2007 06:02:03; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29289

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 3; 242.6; 07-OCT-2007 23:35:34; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29300
 4; 766.1; 07-OCT-2007 23:44:17; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29300
 5; 853.5; 07-OCT-2007 23:45:45; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29300
 6; 1165.9; 07-OCT-2007 23:50:57; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29300
 7; 1570.4; 07-OCT-2007 23:57:41; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29300
 8; 2171.1; 08-OCT-2007 00:07:42; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29300
 9; 2391.1; 08-OCT-2007 00:11:22; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29300
 10; 2914.3; 08-OCT-2007 00:20:05; Bright; 38.0; 68; 18Alp Cas ; 2.22; 4500;occ; 76; 0;29300
 11; 2999.1; 08-OCT-2007 00:21:30; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29300
 12; 3427.4; 08-OCT-2007 00:28:38; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29300
 13; 3914.1; 08-OCT-2007 00:36:45; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29300
 14; 4005.7; 08-OCT-2007 00:38:17; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;29300
 15; 4202.6; 08-OCT-2007 00:41:34; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29300
 16; 4606.8; 08-OCT-2007 00:48:18; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;29300
 17; 4794.5; 08-OCT-2007 00:51:25; Bright; 35.0; 22; 32Alp Leo ; 1.36; 15200;occ; 70; 0;29300
 18; 5203.4; 08-OCT-2007 00:58:14; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29300

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 2; -2031.2; 07-OCT-2007 06:11:41; Bright; 32.0; 82; 48Bet UMa ; 2.37; 10600;occ; 64; 0;29289
 3; -1834.6; 07-OCT-2007 06:14:57; Bright; 33.5; 174; 52Psi UMa ; 3.00; 4400;occ; 67; 0;29289
 4; -1431.5; 07-OCT-2007 06:21:40; Bright; 36.5; 166; 17Eps Leo ; 2.98; 6000;occ; 73; 0;29289
 5; -838.0; 07-OCT-2007 06:31:34; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;29289
 6; -258.9; 07-OCT-2007 06:41:13; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29289
 7; -160.3; 07-OCT-2007 06:42:51; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;29289
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 9; 22.6; 07-OCT-2007 06:45:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290
 10; 150.7; 07-OCT-2007 06:48:02; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29290
 11; 234.8; 07-OCT-2007 06:49:27; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;29290
 12; 762.8; 07-OCT-2007 06:58:15; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29290
 13; 850.2; 07-OCT-2007 06:59:42; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;29290
 14; 1163.5; 07-OCT-2007 07:04:55; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29290
 15; 1569.2; 07-OCT-2007 07:11:41; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29290

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 2; 2390.3; 07-OCT-2007 07:25:22; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29290
 3; 2917.5; 07-OCT-2007 07:34:09; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;29290
 4; 3002.4; 07-OCT-2007 07:35:34; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;29290
 5; 3427.6; 07-OCT-2007 07:42:39; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29290
 6; 3913.5; 07-OCT-2007 07:50:45; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29290
 7; 4004.9; 07-OCT-2007 07:52:17; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29290
 8; 4201.5; 07-OCT-2007 07:55:33; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29290
 9; 4604.7; 07-OCT-2007 08:02:16; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29290
 10; 5198.4; 07-OCT-2007 08:12:10; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;29290
 11; 5777.6; 07-OCT-2007 08:21:49; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29290
 12; 5876.5; 07-OCT-2007 08:23:28; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;29290
 13; 5972.4; 07-OCT-2007 08:25:04; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29290
 14; 6059.3; 07-OCT-2007 08:26:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290
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 16; 6271.5; 07-OCT-2007 08:30:03; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29290
 17; 6799.0; 07-OCT-2007 08:38:51; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29290
 18; 6886.5; 07-OCT-2007 08:40:18; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;29290
 19; 7199.7; 07-OCT-2007 08:45:31; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29290
 20; 7605.3; 07-OCT-2007 08:52:17; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;29290

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 14; 6073.3; 19-OCT-2007 13:51:32; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;29465
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 16; 6412.4; 19-OCT-2007 13:57:11; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;29465
 17; 7103.8; 19-OCT-2007 14:08:43; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29465

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 16; 6413.3; 19-OCT-2007 15:37:48; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29466
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 9; 4014.3; 19-OCT-2007 16:38:25; Bright; 48.0; 82; 48Bet UMA ; 2.37; 10600;occ; 96; 0;29467
 10; 4221.1; 19-OCT-2007 16:41:52; Bright; 53.0; 174; 52Psi UMA ; 3.00; 4400;occ; 106; 0;29467
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 5; 2869.2; 26-OCT-2007 15:59:13; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29567
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21; 6963.6; 26-OCT-2007 20:28:39; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29569

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 18; 4227.3; 26-OCT-2007 23:04:15; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29571
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