

# GOMOS Daily Report 21-JUL-2008

## Level 0 and Level 1 products

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## [Level 2 products](#)

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	23JUL2008 05:31:58
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (21JUL2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (22JUL2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	45
Nb of prods with errors	0

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

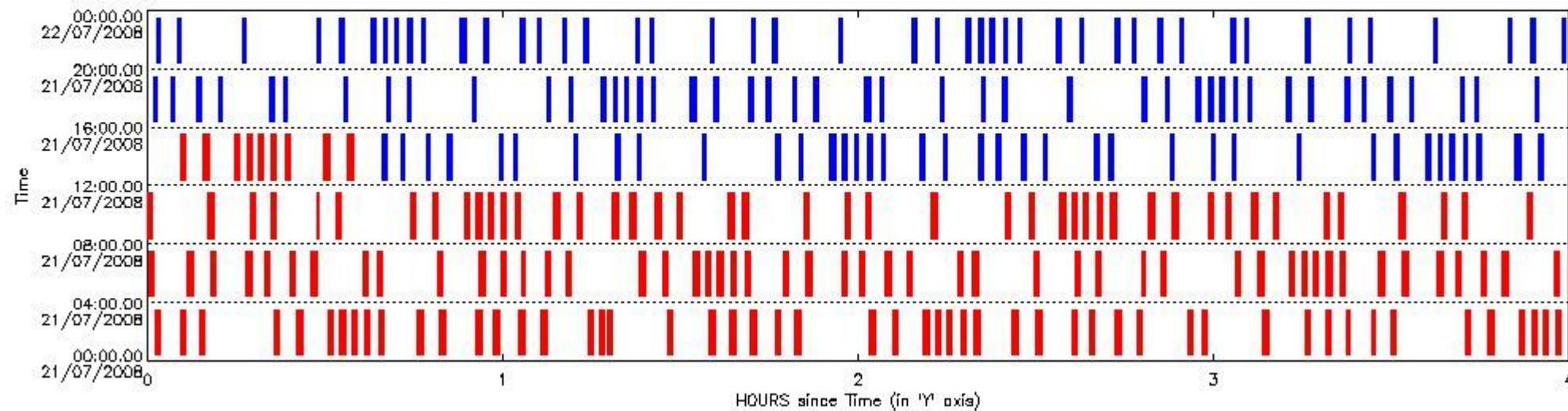
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
21-JUL-2008 00:01:13	14EtaDra	119	33408
21-JUL-2008 00:05:27	7BetUMi	60	33408
21-JUL-2008 00:08:43	1AlpUMi	49	33408
21-JUL-2008 00:21:14	13AlpAur	6	33408
21-JUL-2008 00:25:06	3IotAur	114	33408
21-JUL-2008 00:30:19	87AlpTau	13	33408
21-JUL-2008 00:32:26	24GamOri	27	33408
21-JUL-2008 00:34:22	46EpsOri	30	33408
21-JUL-2008 00:36:37	19BetOri	7	33408
21-JUL-2008 00:38:59	11AlpLep	101	33408
21-JUL-2008 00:45:22	DSA1061	0	33408
21-JUL-2008 00:49:18	The1Eri	157	33408
21-JUL-2008 00:55:20	AlpEri	9	33409
21-JUL-2008 00:58:23	BetHyi	135	33409
21-JUL-2008 01:02:42	AlpTuc	148	33409

21-JUL-2008 01:06:22	AlpPav	45	33409
21-JUL-2008 01:14:24	20EpsSgr	38	33409
21-JUL-2008 01:16:06	34SigSgr	57	33409
21-JUL-2008 01:17:27	41PiSgr	155	33409
21-JUL-2008 01:27:44	17ZetAql	168	33409
21-JUL-2008 01:34:47	3AlpLyr	5	33409
21-JUL-2008 01:38:18	33GamDra	69	33409
21-JUL-2008 01:41:49	14EtaDra	119	33409
21-JUL-2008 01:46:03	7BetUMi	60	33409
21-JUL-2008 01:49:19	1AlpUMi	49	33409
21-JUL-2008 02:01:50	13AlpAur	6	33409
21-JUL-2008 02:05:42	3IotAur	114	33409
21-JUL-2008 02:10:55	87AlpTau	13	33409
21-JUL-2008 02:13:02	24GamOri	27	33409
21-JUL-2008 02:14:58	46EpsOri	30	33409
21-JUL-2008 02:17:14	19BetOri	7	33409
21-JUL-2008 02:19:35	11AlpLep	101	33409
21-JUL-2008 02:25:58	DSA1061	0	33409
21-JUL-2008 02:29:55	The1Eri	157	33409
21-JUL-2008 02:35:57	AlpEri	9	33410
21-JUL-2008 02:38:59	BetHyi	135	33410
21-JUL-2008 02:43:19	AlpTuc	148	33410
21-JUL-2008 02:46:58	AlpPav	45	33410
21-JUL-2008 02:55:37	38ZetSgr	103	33410
21-JUL-2008 02:58:03	41PiSgr	155	33410
21-JUL-2008 03:08:19	17ZetAql	168	33410
21-JUL-2008 03:15:23	3AlpLyr	5	33410
21-JUL-2008 03:18:54	33GamDra	69	33410
21-JUL-2008 03:22:25	14EtaDra	119	33410
21-JUL-2008 03:26:39	7BetUMi	60	33410
21-JUL-2008 03:29:55	1AlpUMi	49	33410
21-JUL-2008 03:42:26	13AlpAur	6	33410
21-JUL-2008 03:46:18	3IotAur	114	33410
21-JUL-2008 03:51:31	87AlpTau	13	33410
21-JUL-2008 03:53:38	24GamOri	27	33410
21-JUL-2008 03:55:35	46EpsOri	30	33410
21-JUL-2008 03:57:50	19BetOri	7	33410
21-JUL-2008 04:00:11	11AlpLep	101	33410
21-JUL-2008 04:06:35	DSA1061	0	33410
21-JUL-2008 04:10:32	The1Eri	157	33410
21-JUL-2008 04:16:33	AlpEri	9	33411
21-JUL-2008 04:19:35	BetHyi	135	33411
21-JUL-2008 04:23:55	AlpTuc	148	33411
21-JUL-2008 04:27:34	AlpPav	45	33411
21-JUL-2008 04:36:13	38ZetSgr	103	33411
21-JUL-2008 04:38:39	41PiSgr	155	33411
21-JUL-2008 04:48:55	17ZetAql	168	33411
21-JUL-2008 04:55:59	3AlpLyr	5	33411
21-JUL-2008 04:59:30	33GamDra	69	33411
21-JUL-2008 05:03:01	14EtaDra	119	33411
21-JUL-2008 05:07:15	7BetUMi	60	33411
21-JUL-2008 05:10:31	1AlpUMi	49	33411
21-JUL-2008 05:23:02	13AlpAur	6	33411
21-JUL-2008 05:26:54	3IotAur	114	33411
21-JUL-2008 05:32:07	87AlpTau	13	33411
21-JUL-2008 05:34:14	24GamOri	27	33411
21-JUL-2008 05:36:11	46EpsOri	30	33411
21-JUL-2008 05:38:26	19BetOri	7	33411
21-JUL-2008 05:40:47	11AlpLep	101	33411

21-JUL-2008 05:47:11	DSA1061	0	33411
21-JUL-2008 05:51:09	The1Eri	157	33411
21-JUL-2008 05:57:10	AlpEri	9	33412
21-JUL-2008 06:00:11	BetHyi	135	33412
21-JUL-2008 06:04:31	AlpTuc	148	33412
21-JUL-2008 06:08:10	AlpPav	45	33412
21-JUL-2008 06:16:49	38ZetSgr	103	33412
21-JUL-2008 06:19:15	41PiSgr	155	33412
21-JUL-2008 06:29:31	17ZetAql	168	33412
21-JUL-2008 06:36:35	3AlpLyr	5	33412
21-JUL-2008 06:40:06	33GamDra	69	33412
21-JUL-2008 06:47:52	7BetUMi	60	33412
21-JUL-2008 06:51:06	1AlpUMi	49	33412
21-JUL-2008 07:03:38	13AlpAur	6	33412
21-JUL-2008 07:07:30	3IotAur	114	33412
21-JUL-2008 07:12:44	87AlpTau	13	33412
21-JUL-2008 07:14:51	24GamOri	27	33412
21-JUL-2008 07:16:47	46EpsOri	30	33412
21-JUL-2008 07:19:02	19BetOri	7	33412
21-JUL-2008 07:21:24	11AlpLep	101	33412
21-JUL-2008 07:27:48	DSA1061	0	33412
21-JUL-2008 07:31:45	The1Eri	157	33412
21-JUL-2008 07:37:46	AlpEri	9	33413
21-JUL-2008 07:40:48	BetHyi	135	33413
21-JUL-2008 07:45:08	AlpTuc	148	33413
21-JUL-2008 07:48:47	AlpPav	45	33413
21-JUL-2008 07:57:25	38ZetSgr	103	33413
21-JUL-2008 07:59:51	41PiSgr	155	33413
21-JUL-2008 08:10:07	17ZetAql	168	33413
21-JUL-2008 08:17:11	3AlpLyr	5	33413
21-JUL-2008 08:20:42	33GamDra	69	33413
21-JUL-2008 08:28:28	7BetUMi	60	33413
21-JUL-2008 08:31:42	1AlpUMi	49	33413
21-JUL-2008 08:44:14	13AlpAur	6	33413
21-JUL-2008 08:48:07	3IotAur	114	33413
21-JUL-2008 08:53:20	87AlpTau	13	33413
21-JUL-2008 08:55:27	24GamOri	27	33413
21-JUL-2008 08:57:23	46EpsOri	30	33413
21-JUL-2008 08:59:39	19BetOri	7	33413
21-JUL-2008 09:02:00	11AlpLep	101	33413
21-JUL-2008 09:08:24	DSA1061	0	33413
21-JUL-2008 09:12:22	The1Eri	157	33413
21-JUL-2008 09:18:23	AlpEri	9	33414
21-JUL-2008 09:21:24	BetHyi	135	33414
21-JUL-2008 09:25:44	AlpTuc	148	33414
21-JUL-2008 09:29:23	AlpPav	45	33414
21-JUL-2008 09:38:02	38ZetSgr	103	33414
21-JUL-2008 09:40:27	41PiSgr	155	33414
21-JUL-2008 09:50:43	17ZetAql	168	33414
21-JUL-2008 09:57:46	3AlpLyr	5	33414
21-JUL-2008 10:01:18	33GamDra	69	33414
21-JUL-2008 10:12:18	1AlpUMi	49	33414
21-JUL-2008 10:24:50	13AlpAur	6	33414
21-JUL-2008 10:28:43	3IotAur	114	33414
21-JUL-2008 10:33:56	87AlpTau	13	33414
21-JUL-2008 10:36:03	24GamOri	27	33414
21-JUL-2008 10:37:59	46EpsOri	30	33414
21-JUL-2008 10:40:15	19BetOri	7	33414
21-JUL-2008 10:42:36	11AlpLep	101	33414

21-JUL-2008 10:49:01	DSA1061	0	33414
21-JUL-2008 10:52:59	The1Eri	157	33414
21-JUL-2008 10:59:00	AlpEri	9	33415
21-JUL-2008 11:02:00	BetHyi	135	33415
21-JUL-2008 11:06:21	AlpTuc	148	33415
21-JUL-2008 11:09:59	AlpPav	45	33415
21-JUL-2008 11:18:38	38ZetSgr	103	33415
21-JUL-2008 11:21:04	41PiSgr	155	33415
21-JUL-2008 11:31:19	17ZetAql	168	33415
21-JUL-2008 11:38:22	3AlpLyr	5	33415
21-JUL-2008 11:41:54	33GamDra	69	33415
21-JUL-2008 11:52:54	1AlpUMi	49	33415
21-JUL-2008 12:05:26	13AlpAur	6	33415
21-JUL-2008 12:09:19	3IotAur	114	33415
21-JUL-2008 12:14:32	87AlpTau	13	33415
21-JUL-2008 12:16:39	24GamOri	27	33415
21-JUL-2008 12:18:35	46EpsOri	30	33415
21-JUL-2008 12:20:51	19BetOri	7	33415
21-JUL-2008 12:23:12	11AlpLep	101	33415
21-JUL-2008 12:29:37	DSA1061	0	33415
21-JUL-2008 12:33:35	The1Eri	157	33415

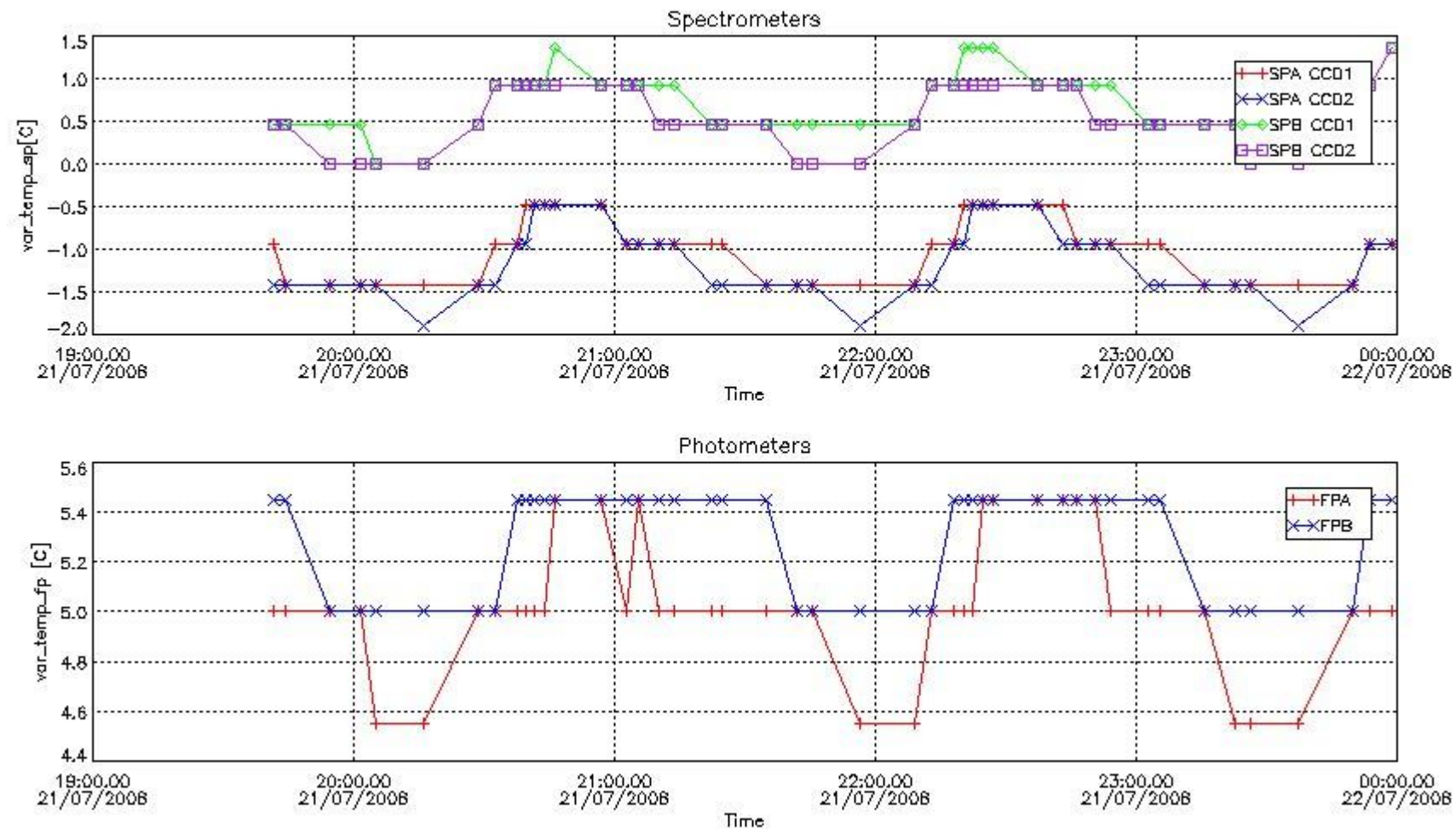
#### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20080721_194142_000000382070_00300_33420_4472.N1	21-JUL-2008 19:41:42	Bright	37.500	103	38Zet Sgr	2.6000	9700.0	75	33420	No
2	GOM_TRA_1PNPDE20080721_194408_000000392070_00300_33420_4473.N1	21-JUL-2008 19:44:08	Bright	38.500	155	41Pi Sgr	2.9000	6600.0	77	33420	No
3	GOM_TRA_1PNPDE20080721_195421_000000372070_00300_33420_4474.N1	21-JUL-2008 19:54:21	Bright	36.500	168	17Zet Aql	2.9860	11000.	73	33420	No
4	GOM_TRA_1PNPDE20080721_200125_000000372070_00300_33420_4475.N1	21-JUL-2008 20:01:25	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	33420	No
5	GOM_TRA_1PNPDE20080721_200458_000000382070_00300_33420_4476.N1	21-JUL-2008 20:04:58	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	33420	No
6	GOM_TRA_1PNPDE20080721_201557_000000372070_00300_33420_4477.N1	21-JUL-2008 20:15:57	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	33420	No
7	GOM_TRA_1PNPDE20080721_202829_000000412070_00300_33420_4478.N1	21-JUL-2008 20:28:29	Bright	40.500	6	13Alp Aur	0.080000	3400.0	81	33420	No
8	GOM_TRA_1PNPDE20080721_203222_000000382070_00300_33420_4479.N1	21-JUL-2008 20:32:22	Bright	38.000	114	3Iot Aur	2.6930	4600.0	76	33420	No
9	GOM_TRA_1PNPDE20080721_203737_000000572070_00300_33420_4480.N1	21-JUL-2008 20:37:37	Dark	57.000	13	87Alp Tau	0.86700	3800.0	114	33420	No
10	GOM_TRA_1PNPDE20080721_203943_000000392070_00300_33420_4481.N1	21-JUL-2008 20:39:43	Dark	39.000	27	24Gam Ori	1.6360	26000.	78	33420	No
11	GOM_TRA_1PNPDE20080721_204139_000000392070_00300_33420_4482.N1	21-JUL-2008 20:41:39	Dark	38.500	30	46Eps Ori	1.6940	30000.	77	33420	No
12	GOM_TRA_1PNPDE20080721_204355_000000372070_00300_33420_4483.N1	21-JUL-2008 20:43:55	Dark	36.500	7	19Bet Ori	0.10000	14000.	73	33420	No
13	GOM_TRA_1PNPDE20080721_204616_000000362070_00300_33420_4643.N1	21-JUL-2008 20:46:16	Dark	35.500	101	11Alp Lep	2.5820	7000.0	71	33420	No
14	GOM_TRA_1PNPDE20080721_205642_000000422070_00300_33420_4644.N1	21-JUL-2008 20:56:42	Dark	42.000	157	The1Eri	2.9060	9300.0	84	33420	No
15	GOM_TRA_1PNPDE20080721_210242_000000522070_00301_33421_4645.N1	21-JUL-2008 21:02:42	Dark	51.500	9	Alp Eri	0.45300	24000.	103	33421	No
16	GOM_TRA_1PNPDE20080721_210540_000000372070_00301_33421_4646.N1	21-JUL-2008 21:05:40	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	33421	No
17	GOM_TRA_1PNPDE20080721_211003_000000392070_00301_33421_4647.N1	21-JUL-2008 21:10:03	Straylight	38.500	148	Alp Tuc	2.8780	4100.0	77	33421	No
18	GOM_TRA_1PNPDE20080721_211340_000000392070_00301_33421_4648.N1	21-JUL-2008 21:13:40	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	33421	No
19	GOM_TRA_1PNPDE20080721_212218_000000402070_00301_33421_4649.N1	21-JUL-2008 21:22:18	Bright	39.500	103	38Zet Sgr	2.6000	9700.0	79	33421	No
20	GOM_TRA_1PNPDE20080721_212444_000000382070_00301_33421_4650.N1	21-JUL-2008 21:24:44	Bright	38.000	155	41Pi Sgr	2.9000	6600.0	76	33421	No
21	GOM_TRA_1PNPDE20080721_213457_000000372070_00301_33421_4651.N1	21-JUL-2008 21:34:57	Bright	36.500	168	17Zet Aql	2.9860	11000.	73	33421	No
22	GOM_TRA_1PNPDE20080721_214201_000000342070_00301_33421_4652.N1	21-JUL-2008 21:42:01	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	33421	No
23	GOM_TRA_1PNPDE20080721_214533_000000392070_00301_33421_4653.N1	21-JUL-2008 21:45:33	Bright	38.500	69	33Gam Dra	2.2310	3800.0	77	33421	No
24	GOM_TRA_1PNPDE20080721_215633_000000362070_00301_33421_4654.N1	21-JUL-2008 21:56:33	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	33421	No
25	GOM_TRA_1PNPDE20080721_220905_000000402070_00301_33421_4655.N1	21-JUL-2008 22:09:05	Bright	40.000	6	13Alp Aur	0.080000	3400.0	80	33421	No
26	GOM_TRA_1PNPDE20080721_221258_000000392070_00301_33421_4656.N1	21-JUL-2008 22:12:58	Bright	39.000	114	3Iot Aur	2.6930	4600.0	78	33421	No
27	GOM_TRA_1PNPDE20080721_221813_000000492070_00301_33421_4657.N1	21-JUL-2008 22:18:13	Dark	48.500	13	87Alp Tau	0.86700	3800.0	97	33421	No
28	GOM_TRA_1PNPDE20080721_222019_000000402070_00301_33421_4658.N1	21-JUL-2008 22:20:19	Dark	39.500	27	24Gam Ori	1.6360	26000.	79	33421	No
29	GOM_TRA_1PNPDE20080721_222215_000000362070_00301_33421_4659.N1	21-JUL-2008 22:22:15	Dark	36.000	30	46Eps Ori	1.6940	30000.	72	33421	No
30	GOM_TRA_1PNPDE20080721_222431_000000362070_00301_33421_4660.N1	21-JUL-2008 22:24:31	Dark	36.000	7	19Bet Ori	0.10000	14000.	72	33421	No
31	GOM_TRA_1PNPDE20080721_222652_000000382070_00301_33421_4661.N1	21-JUL-2008 22:26:52	Dark	37.500	101	11Alp Lep	2.5820	7000.0	75	33421	No
32	GOM_TRA_1PNPDE20080721_223719_000000432070_00301_33421_4770.N1	21-JUL-2008 22:37:19	Dark	43.000	157	The1Eri	2.9060	9300.0	86	33421	No
33	GOM_TRA_1PNPDE20080721_224319_000000412070_00302_33422_4771.N1	21-JUL-2008 22:43:19	Dark	40.500	9	Alp Eri	0.45300	24000.	81	33422	No



34	GOM_TRA_1PNPDE20080721_224616_000000382070_00302_33422_4772.N1	21-JUL-2008 22:46:16	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	33422	No
35	GOM_TRA_1PNPDE20080721_225039_000000392070_00302_33422_4773.N1	21-JUL-2008 22:50:39	Straylight	39.000	148	Alp Tuc	2.8780	4100.0	78	33422	No
36	GOM_TRA_1PNPDE20080721_225416_000000392070_00302_33422_4774.N1	21-JUL-2008 22:54:16	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	33422	No
37	GOM_TRA_1PNPDE20080721_230254_000000382070_00302_33422_4775.N1	21-JUL-2008 23:02:54	Bright	38.000	103	38Zet Sgr	2.6000	9700.0	76	33422	No
38	GOM_TRA_1PNPDE20080721_230520_000000372070_00302_33422_4776.N1	21-JUL-2008 23:05:20	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	33422	No
39	GOM_TRA_1PNPDE20080721_231533_000000382070_00302_33422_4777.N1	21-JUL-2008 23:15:33	Bright	37.500	168	17Zet Aql	2.9860	11000.	75	33422	No
40	GOM_TRA_1PNPDE20080721_232237_000000382070_00302_33422_4778.N1	21-JUL-2008 23:22:37	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	33422	No
41	GOM_TRA_1PNPDE20080721_232609_000000332070_00302_33422_4779.N1	21-JUL-2008 23:26:09	Bright	32.500	69	33Gam Dra	2.2310	3800.0	65	33422	No
42	GOM_TRA_1PNPDE20080721_233709_000000372070_00302_33422_4780.N1	21-JUL-2008 23:37:09	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	33422	No
43	GOM_TRA_1PNPDE20080721_234941_000000392070_00302_33422_4781.N1	21-JUL-2008 23:49:41	Bright	39.000	6	13Alp Aur	0.080000	3400.0	78	33422	No
44	GOM_TRA_1PNPDE20080721_235334_000000392070_00302_33422_4782.N1	21-JUL-2008 23:53:34	Bright	38.500	114	3Iot Aur	2.6930	4600.0	77	33422	No
45	GOM_TRA_1PNPDE20080721_235849_000000412070_00302_33422_4783.N1	21-JUL-2008 23:58:49	Dark	41.000	13	87Alp Tau	0.86700	3800.0	82	33422	No

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



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

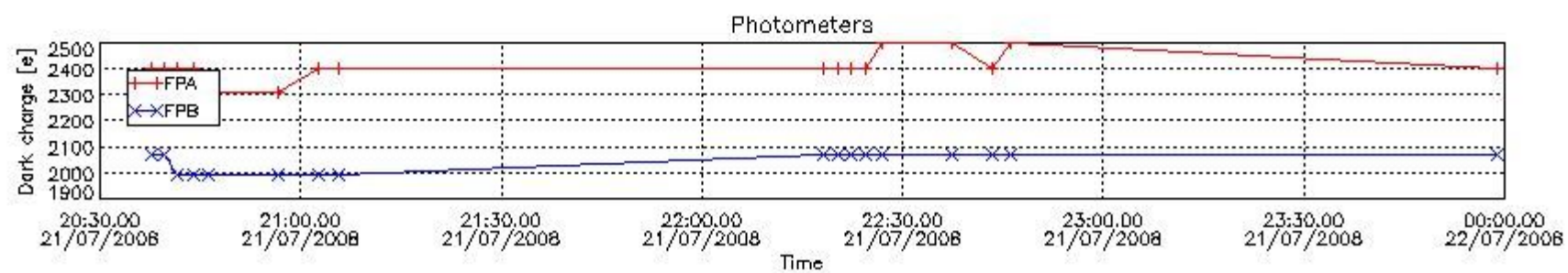
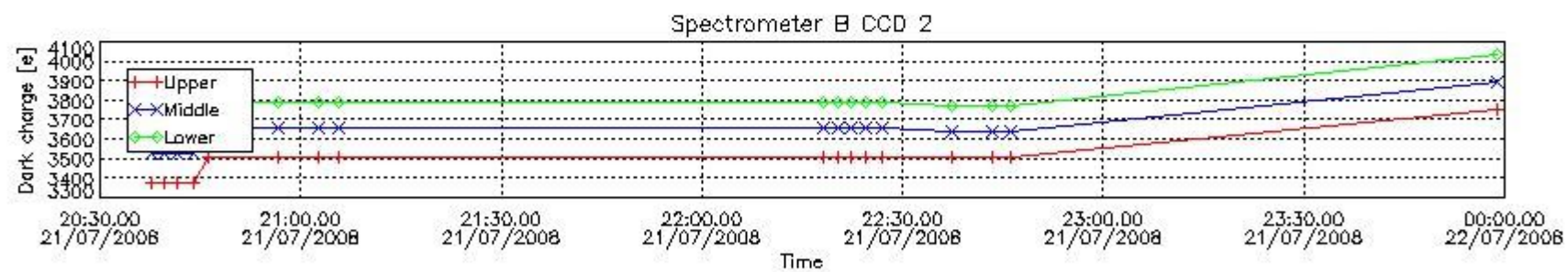
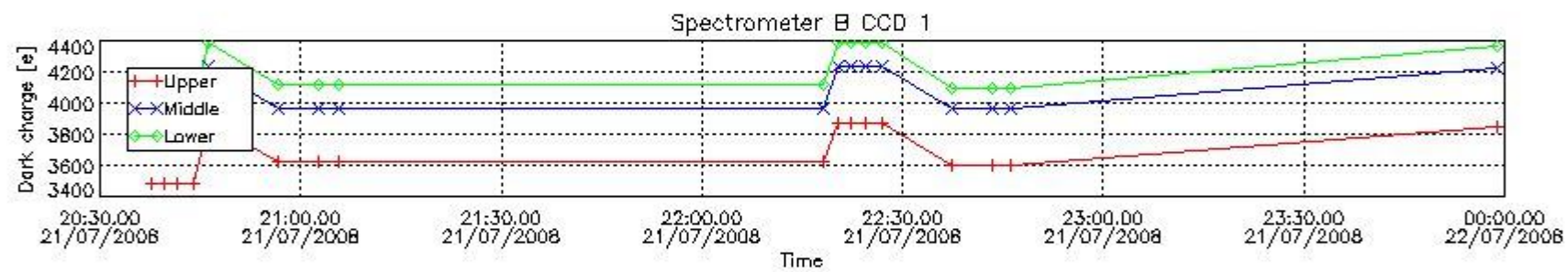
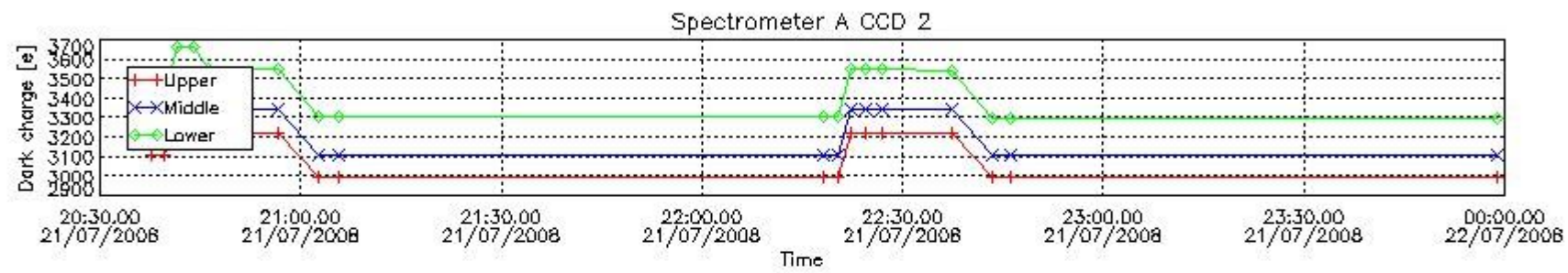
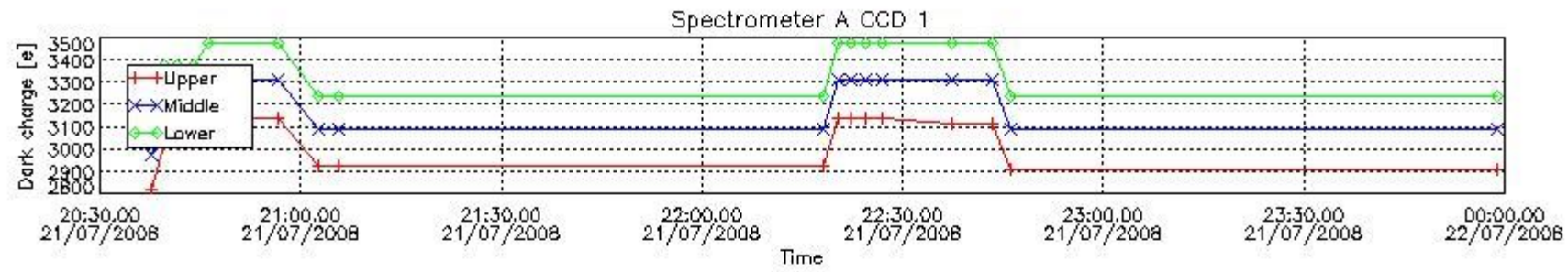
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20080721_194142_000000382070_00300_33420_4472.N1	DC map used
GOM_TRA_1PNPDE20080721_194408_000000392070_00300_33420_4473.N1	DC map used
GOM_TRA_1PNPDE20080721_195421_000000372070_00300_33420_4474.N1	DC map used
GOM_TRA_1PNPDE20080721_200125_000000372070_00300_33420_4475.N1	DC map used
GOM_TRA_1PNPDE20080721_200458_000000382070_00300_33420_4476.N1	DC map used
GOM_TRA_1PNPDE20080721_201557_000000372070_00300_33420_4477.N1	DC map used
GOM_TRA_1PNPDE20080721_202829_000000412070_00300_33420_4478.N1	DC map used
GOM_TRA_1PNPDE20080721_203222_000000382070_00300_33420_4479.N1	DC map used
GOM_TRA_1PNPDE20080721_203737_000000572070_00300_33420_4480.N1	DC map used
GOM_TRA_1PNPDE20080721_203943_000000392070_00300_33420_4481.N1	DC map used
GOM_TRA_1PNPDE20080721_204139_000000392070_00300_33420_4482.N1	DC map used
GOM_TRA_1PNPDE20080721_204355_000000372070_00300_33420_4483.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

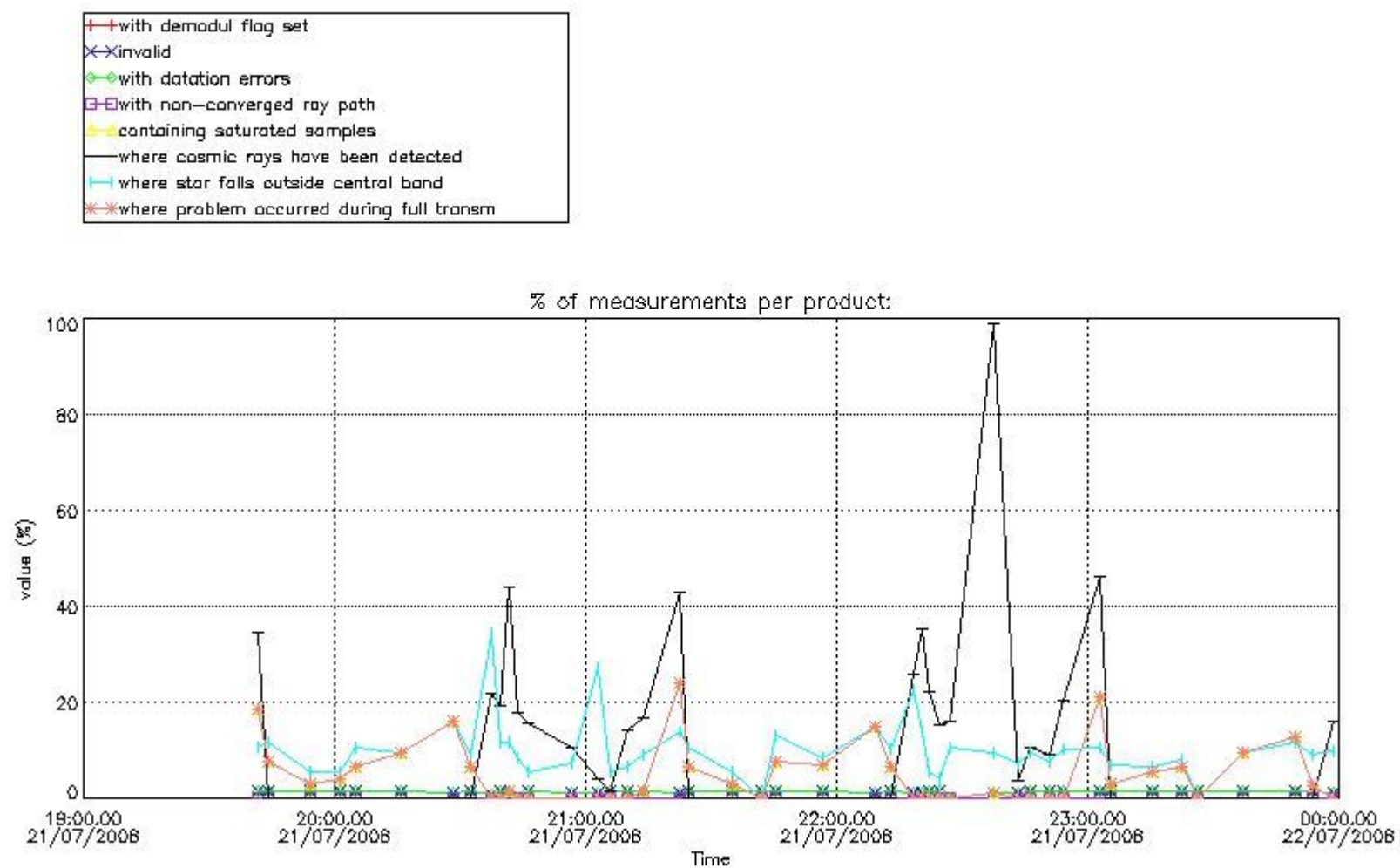
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

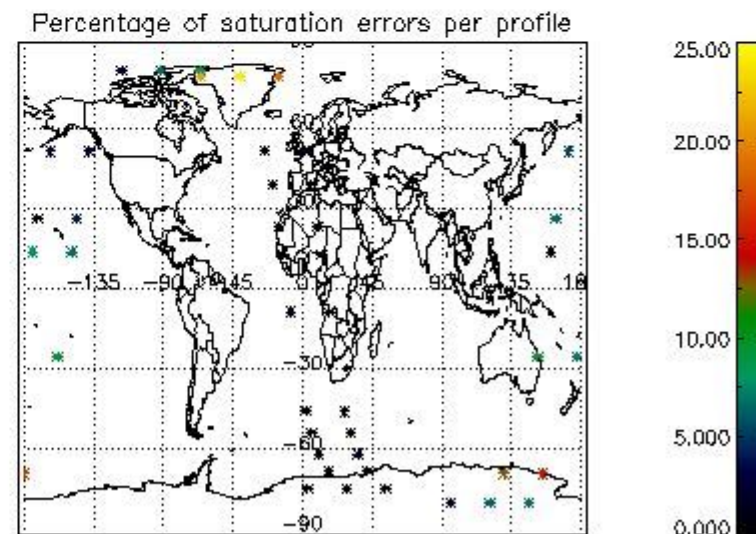
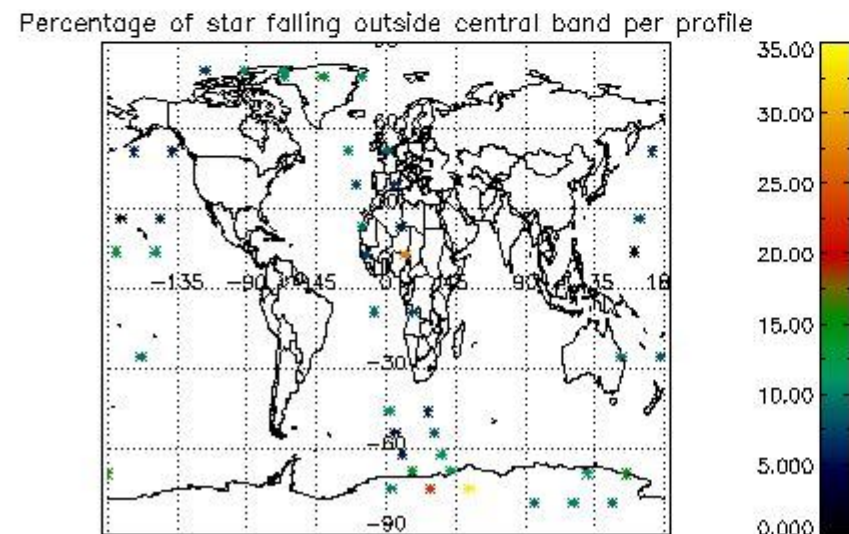
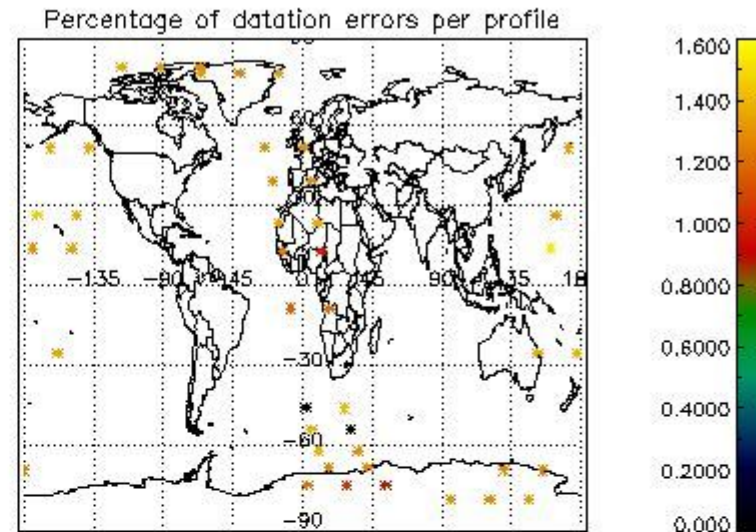
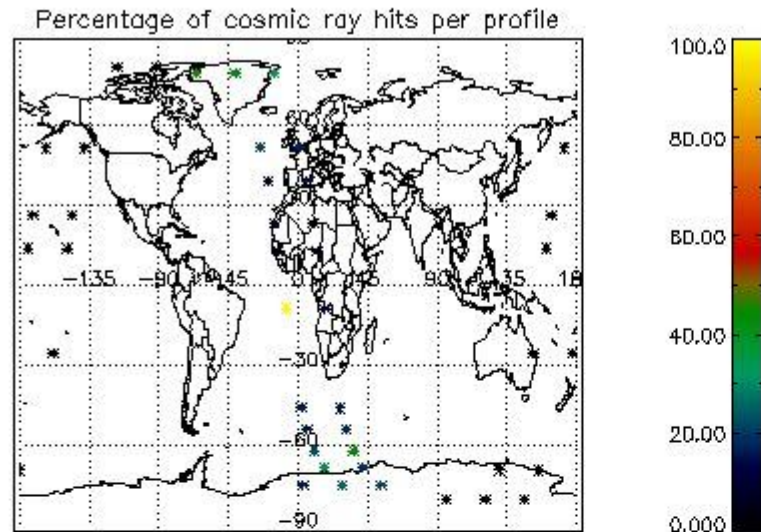


At least one measurement with demodulation flag set:	13.3333 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)



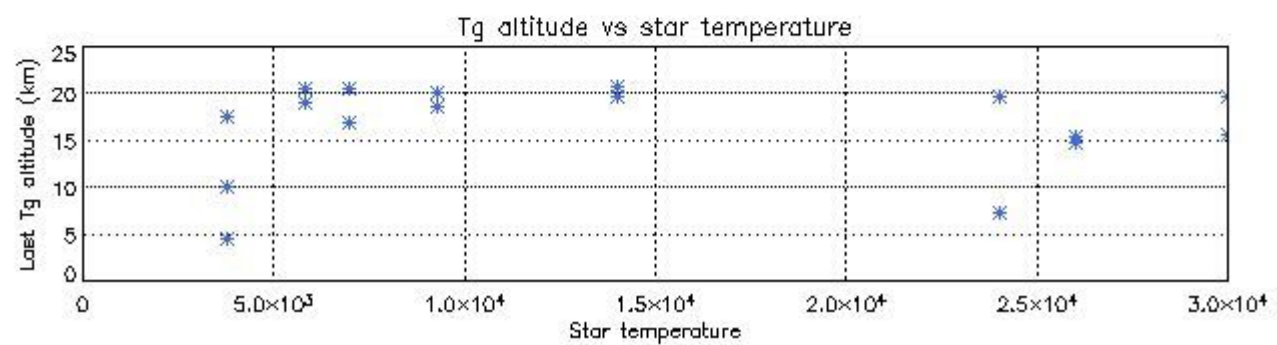
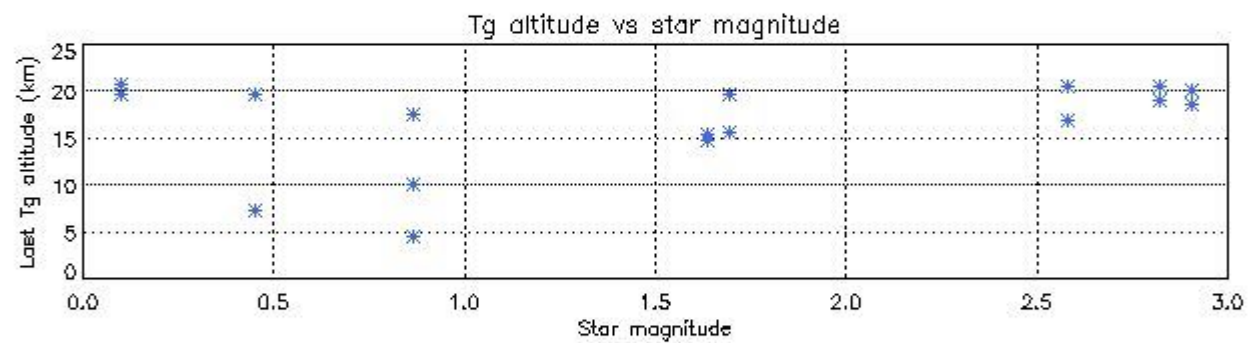
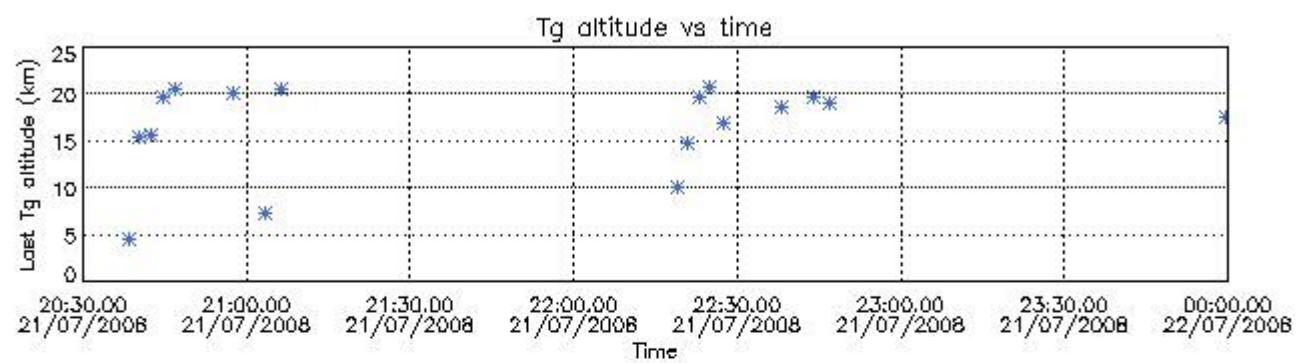
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.466	19.272	NaN
St. deviation:	4.8895	3.0856	NaN
Maximum:	20.690	27.634	NaN
Minimum:	4.3916	14.741	NaN
Number of data:	17.000	24.000	NaN

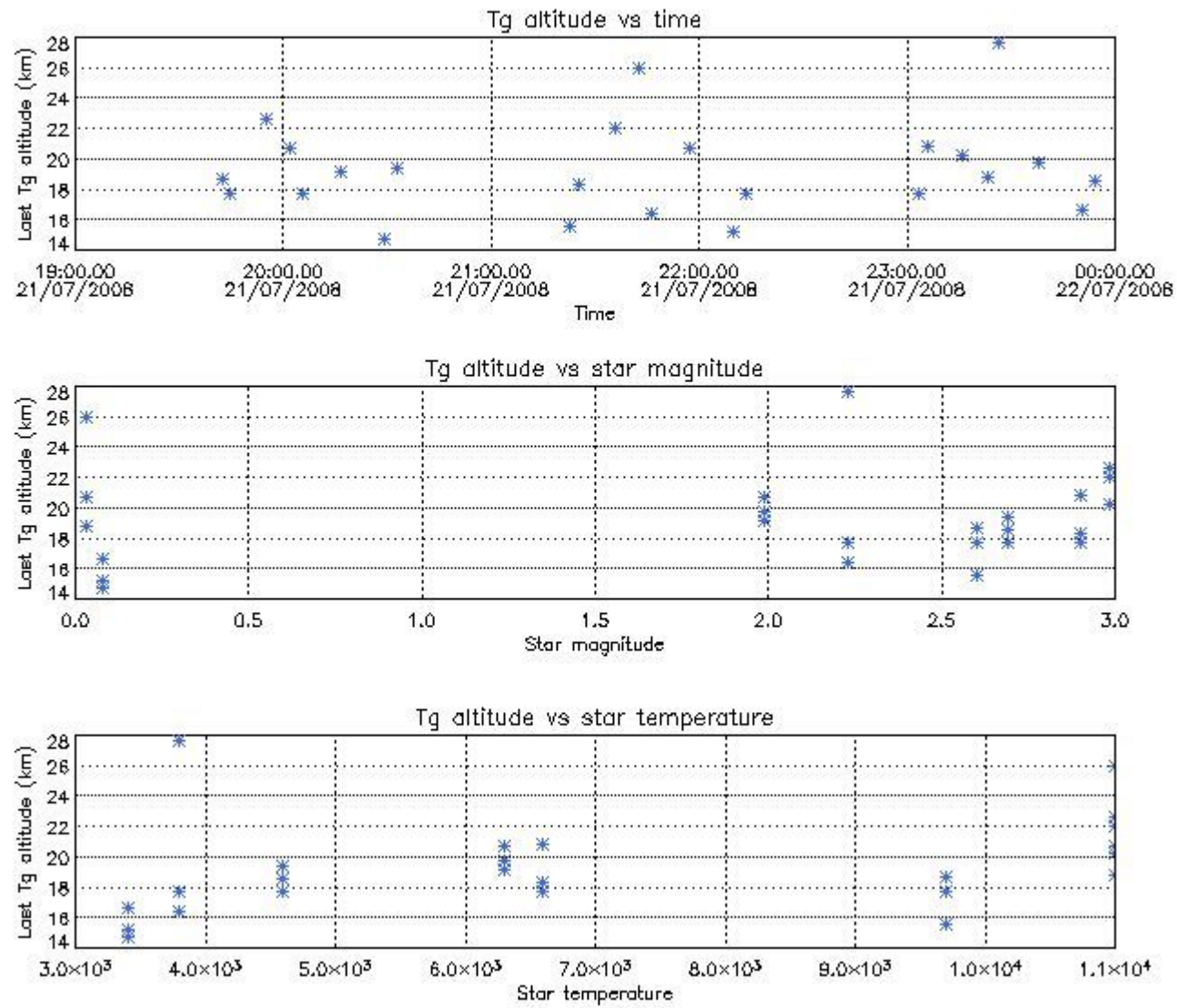
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost



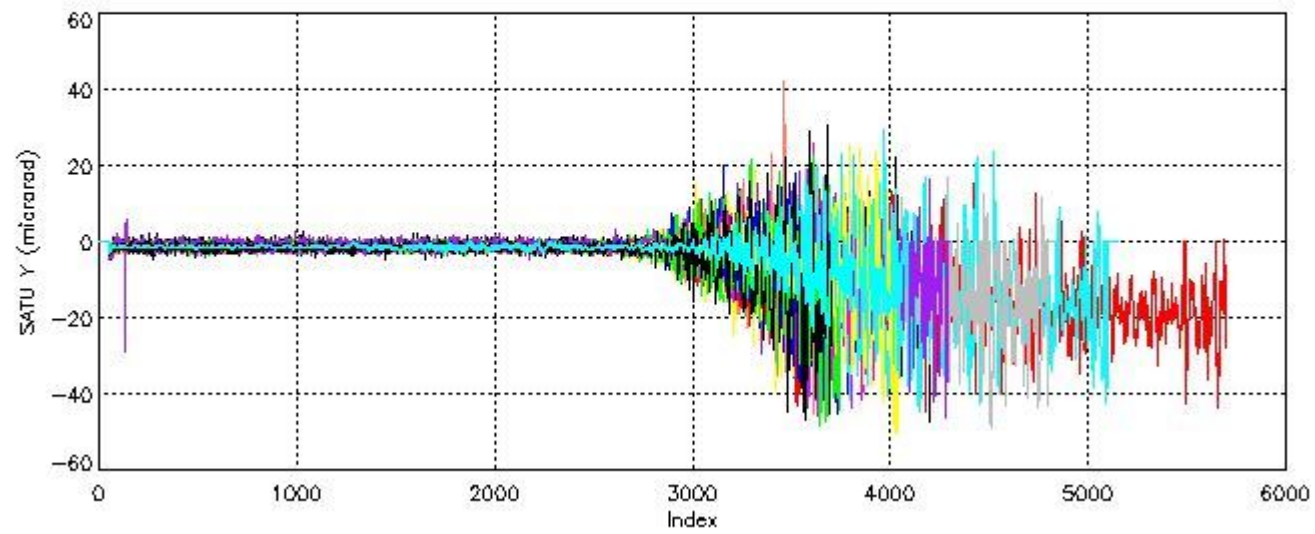
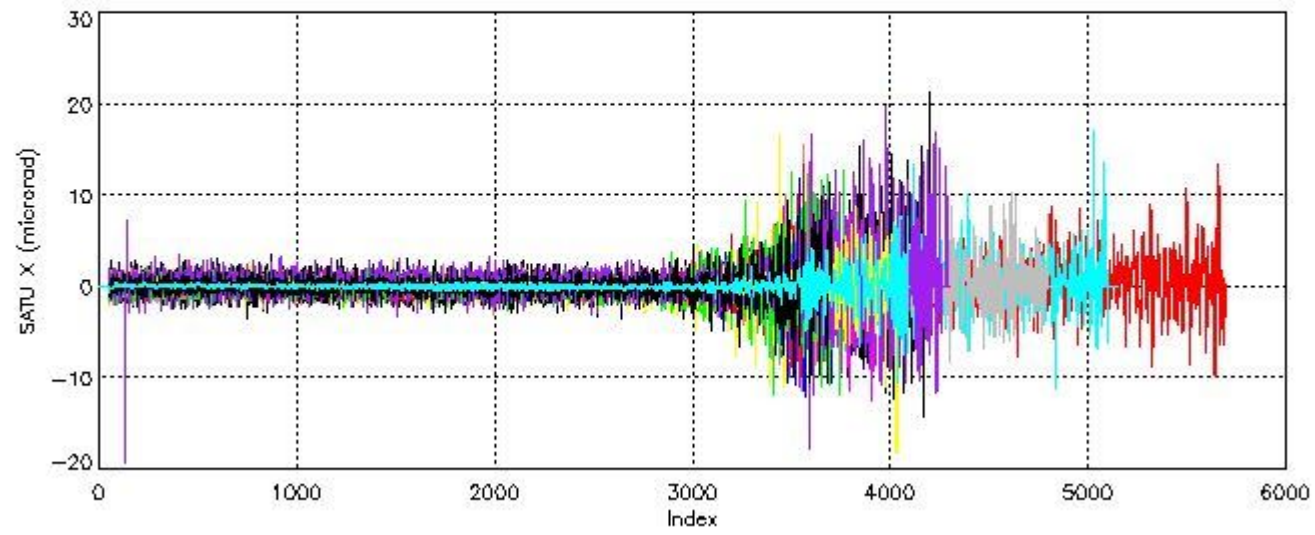
## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.023875	-1.3234	0.092290	-1.4151
St. deviation:	0.47920	0.62129	0.63014	0.76404
Maximum:	7.1000	5.6000	6.1000	4.3000
Minimum:	-19.400	-29.200	-5.6000	-6.7000

Number of data:	15150.	15150.	20000.	20000.
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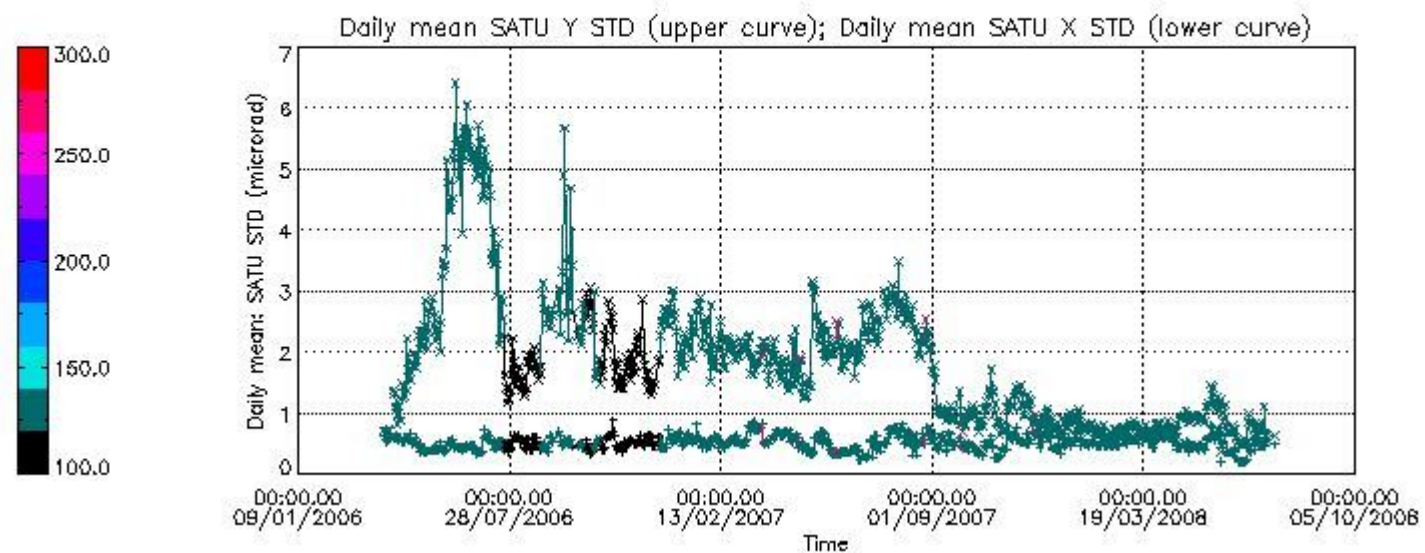
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

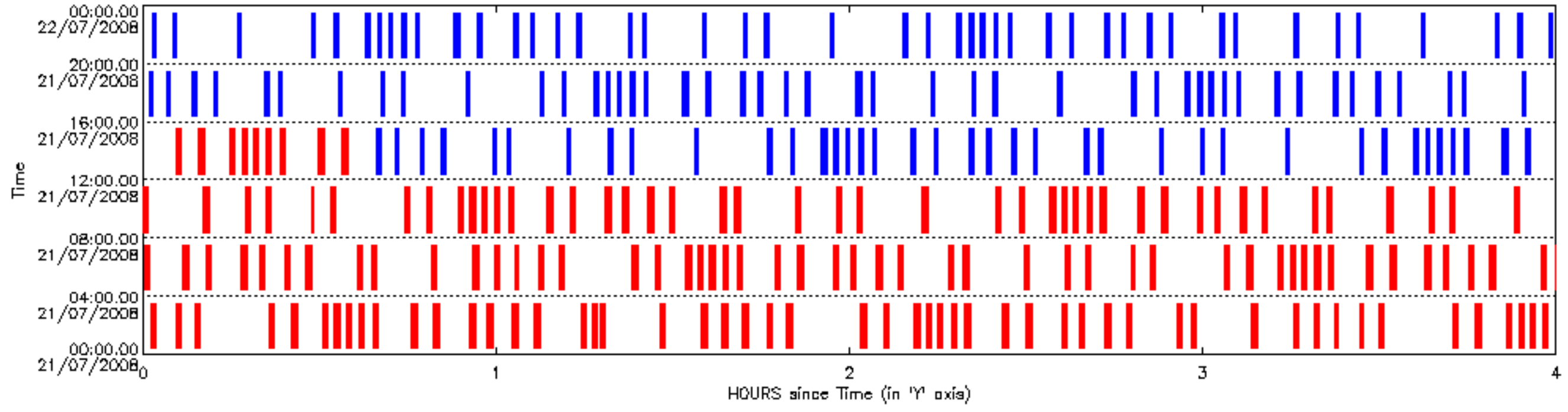
Lower curve: STD of SATU X axis

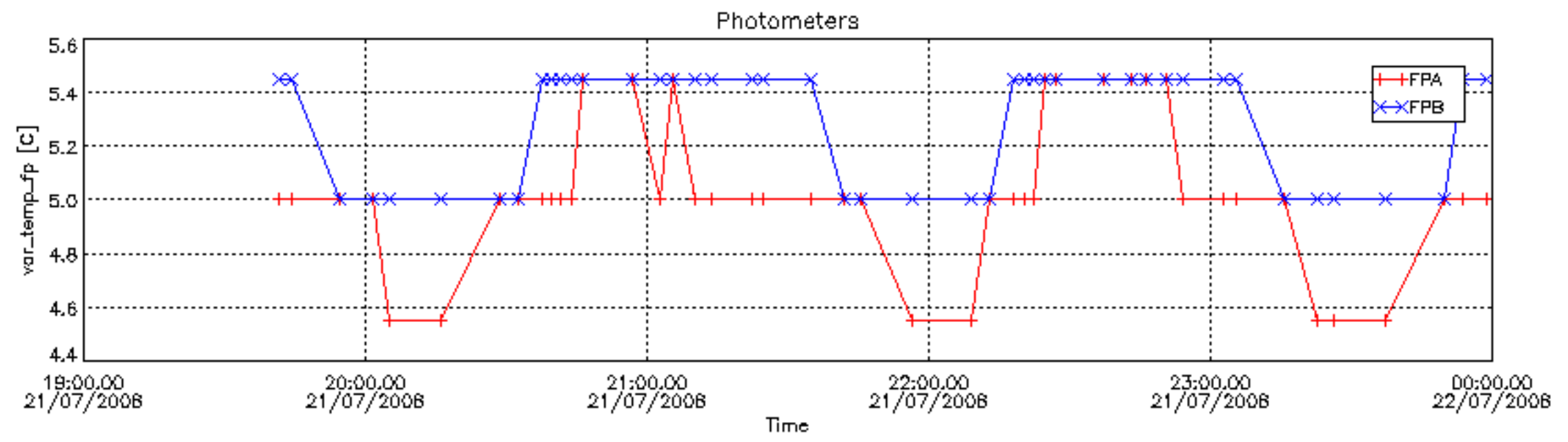
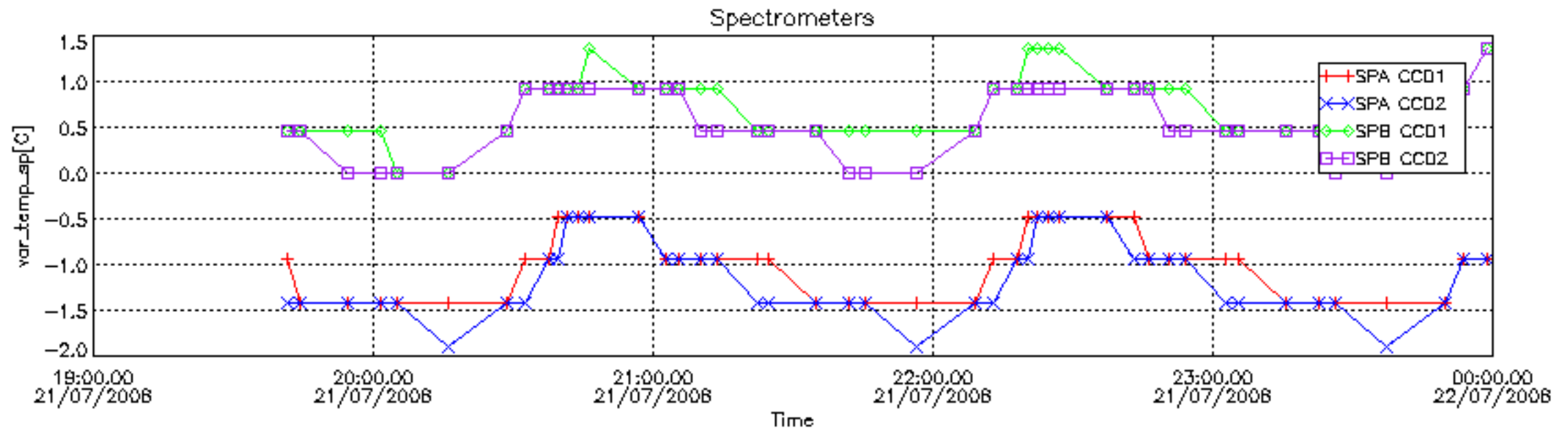


### 8. Auxiliary Data Files used for the production reported in section 2.4

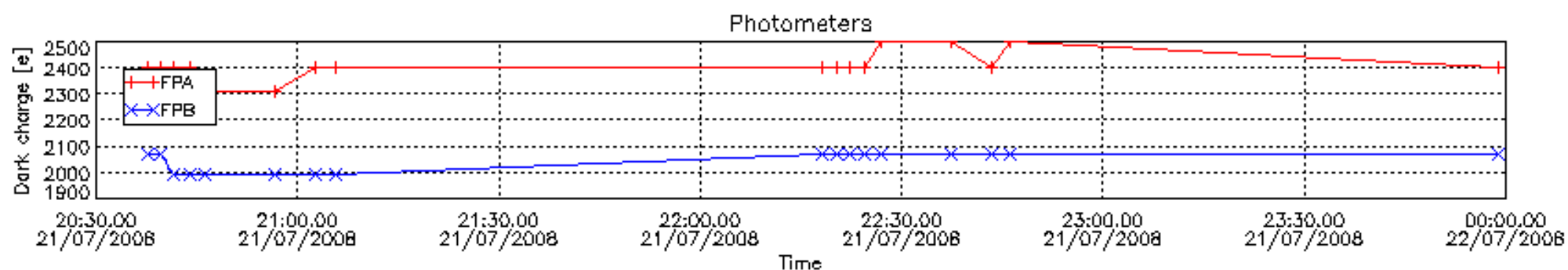
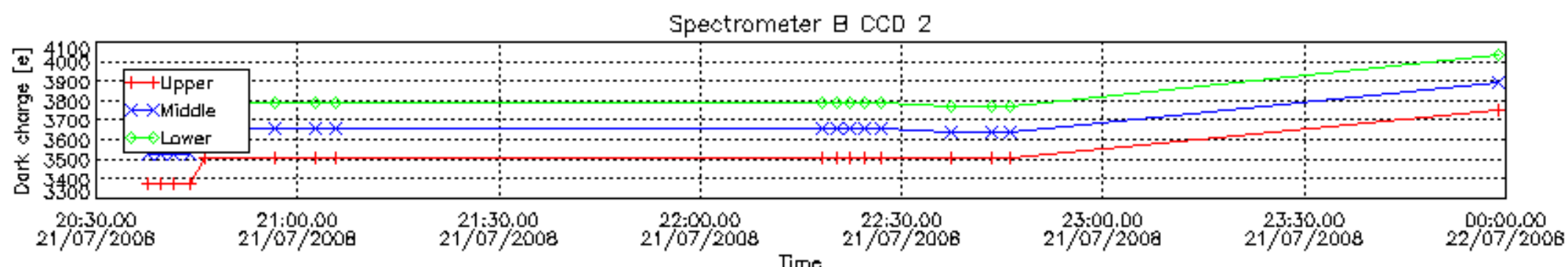
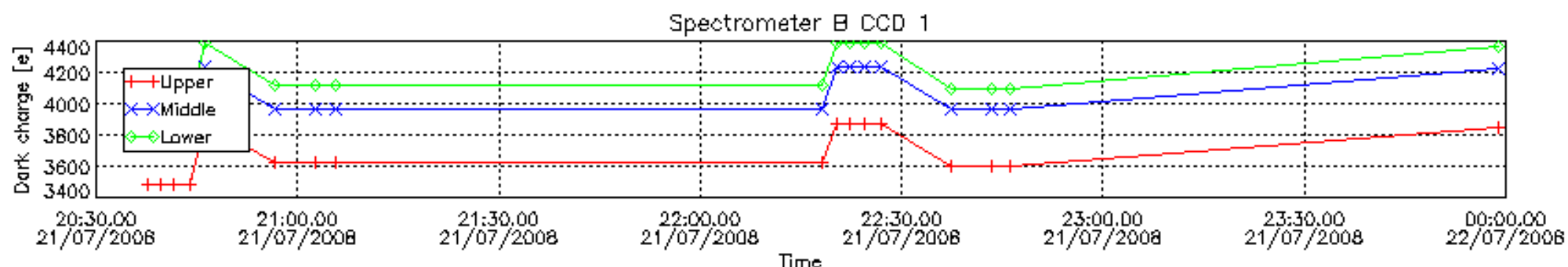
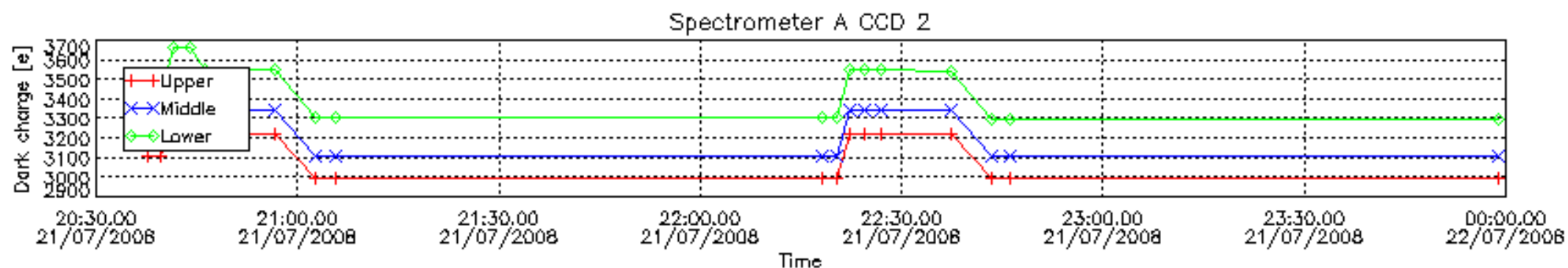
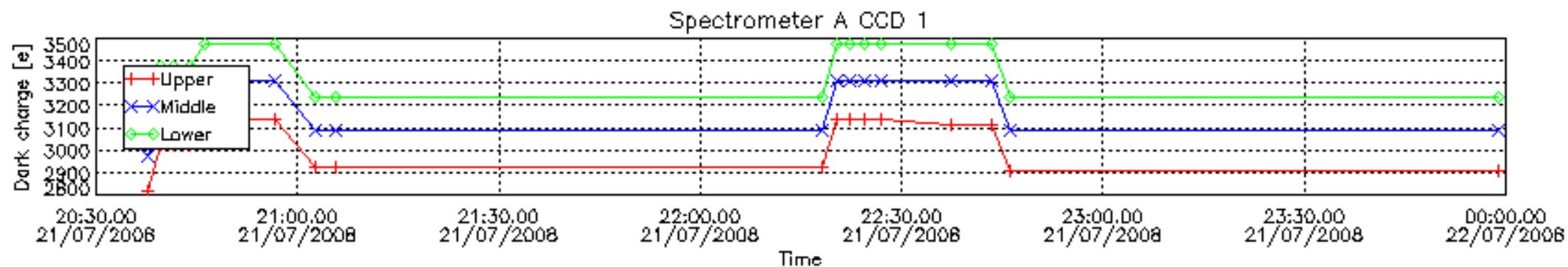
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

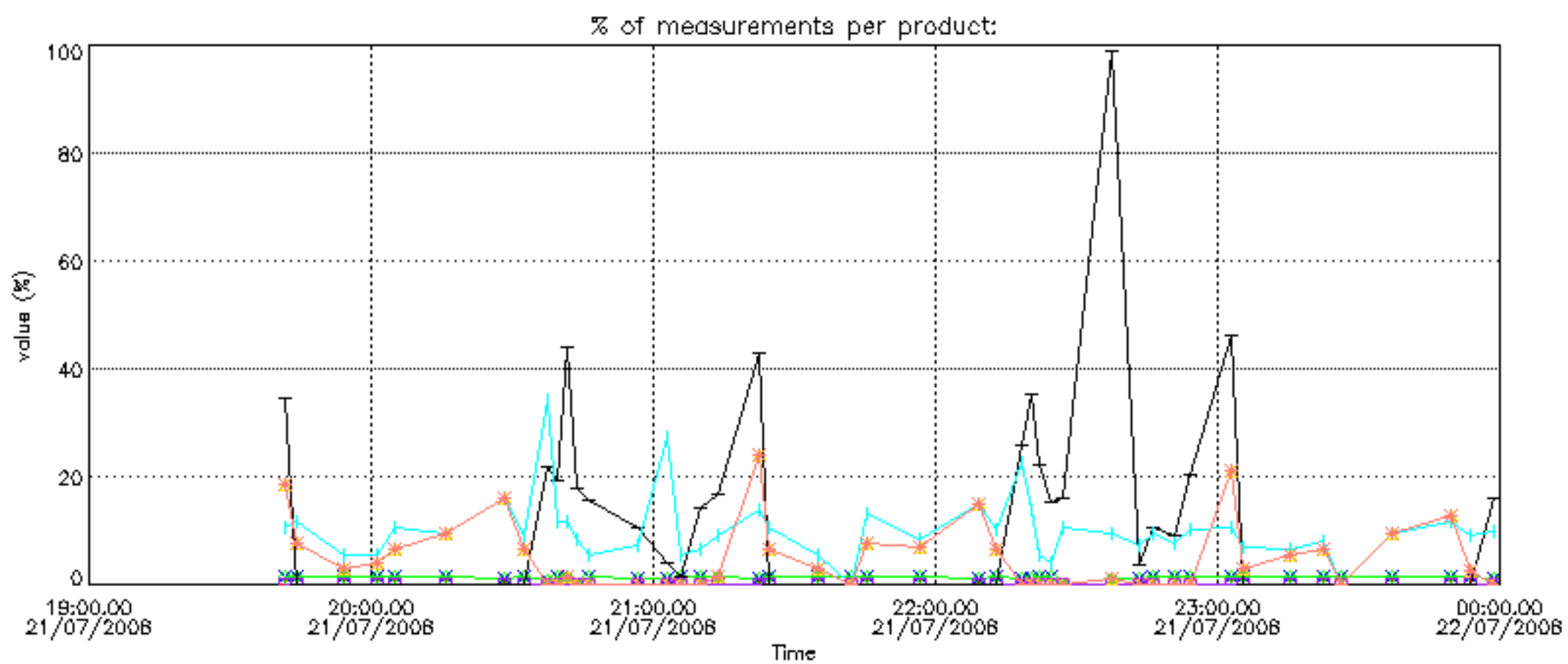
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	21-JUL-2008 19:41:42
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080711_132227_20080708_000000_20100101_000000	1	21-JUL-2008 19:41:42
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	21-JUL-2008 19:41:42
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-JUL-2008 19:41:42
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	21-JUL-2008 19:41:42
ECMWF_FILE	AUX_ECF_AXNECM20080721_072111_20080721_150000_20080722_030000	1	21-JUL-2008 19:41:42
ECMWF_FILE	AUX_ECF_AXNECM20080721_072112_20080721_210000_20080722_090000	32	21-JUL-2008 22:37:19
OPTIONAL_ECMWF_FILE	MISSING	1	21-JUL-2008 19:41:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080721_193302_000038252070_00300_33420_5994.N1	1	21-JUL-2008 19:41:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080721_204207_000057382070_00300_33420_5995.N1	32	21-JUL-2008 22:37:19



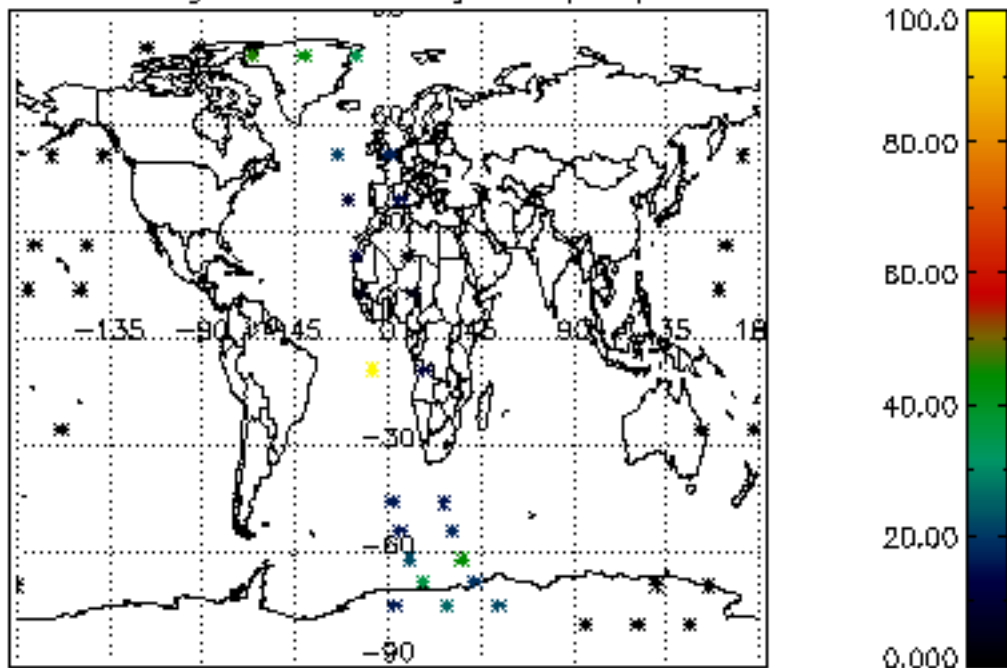




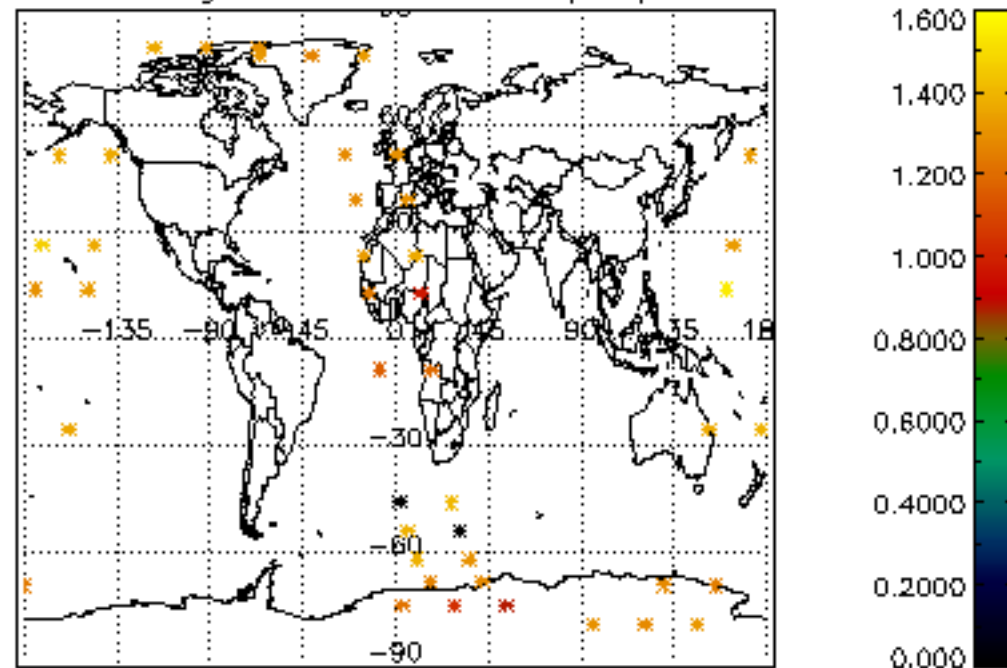




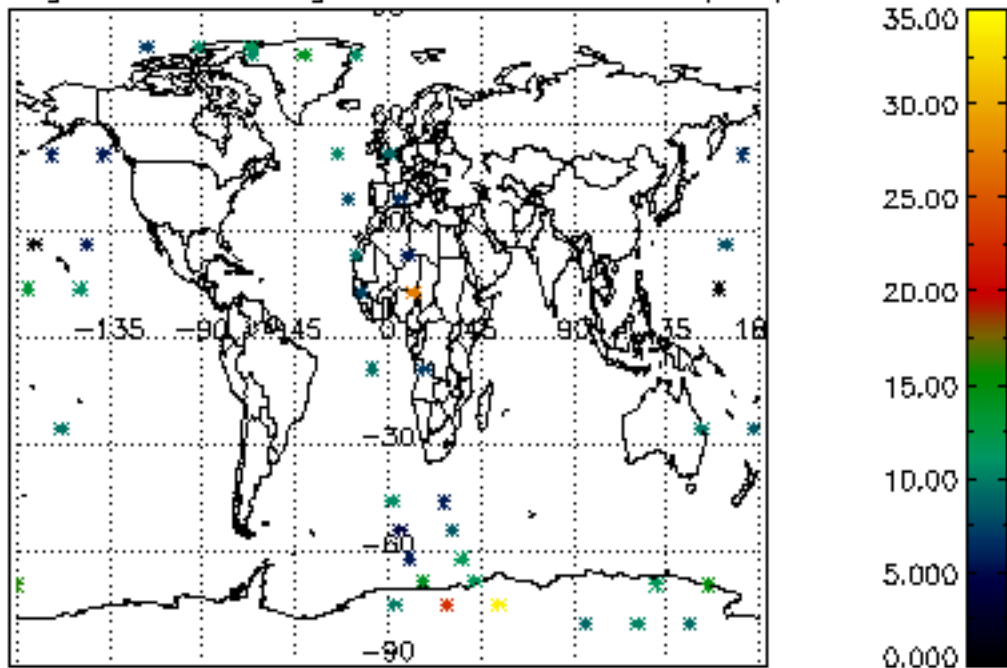
Percentage of cosmic ray hits per profile



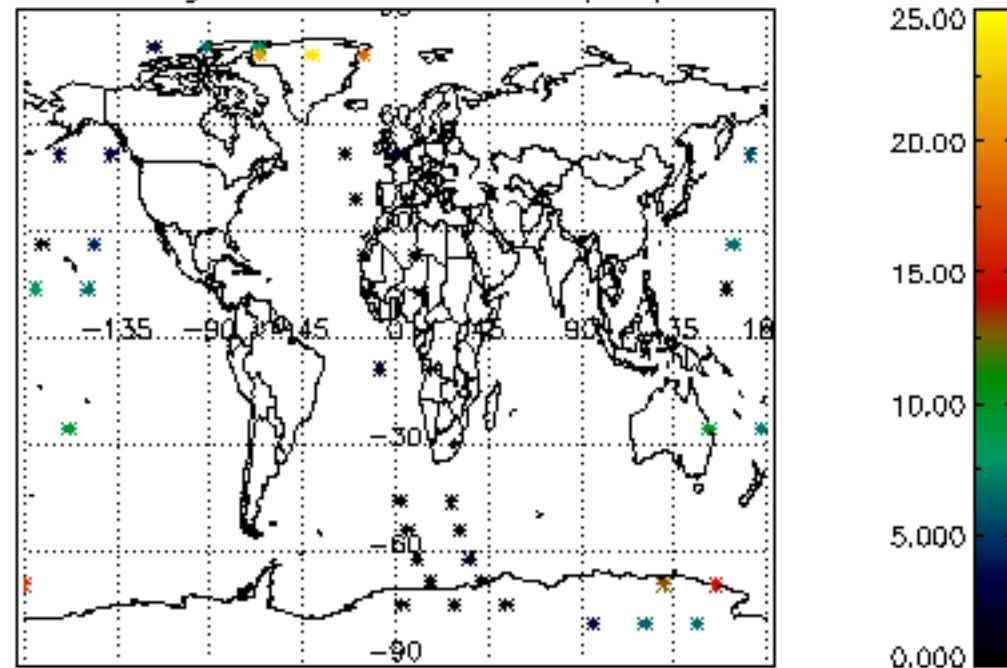
Percentage of datation errors per profile



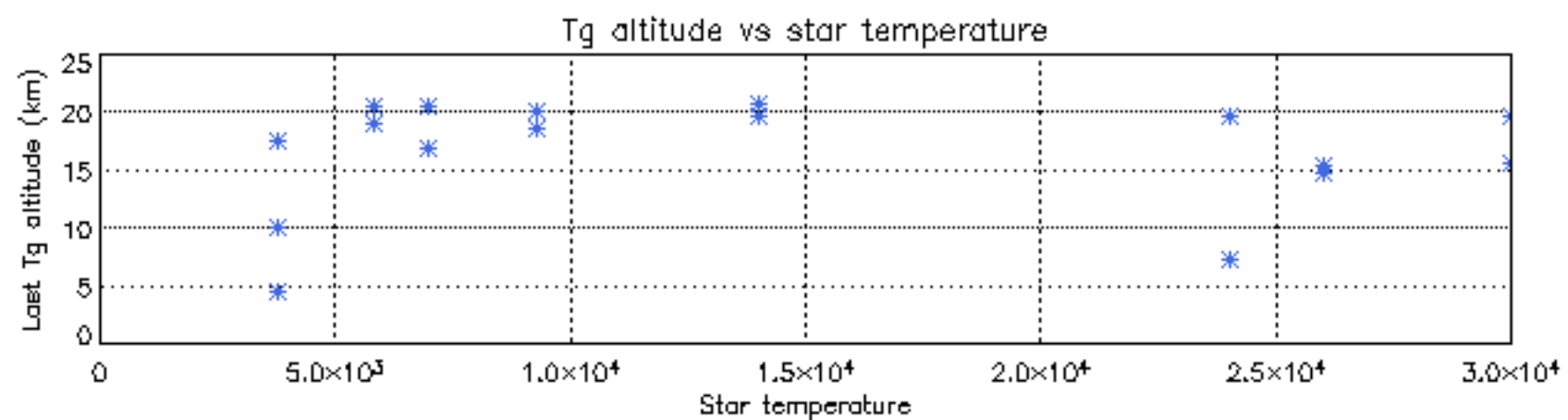
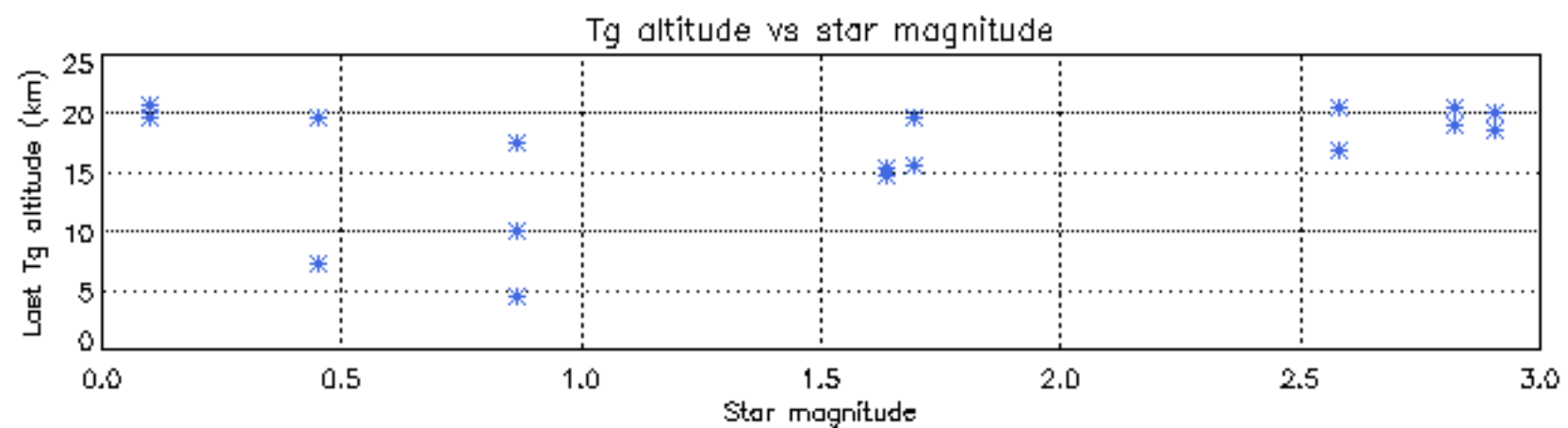
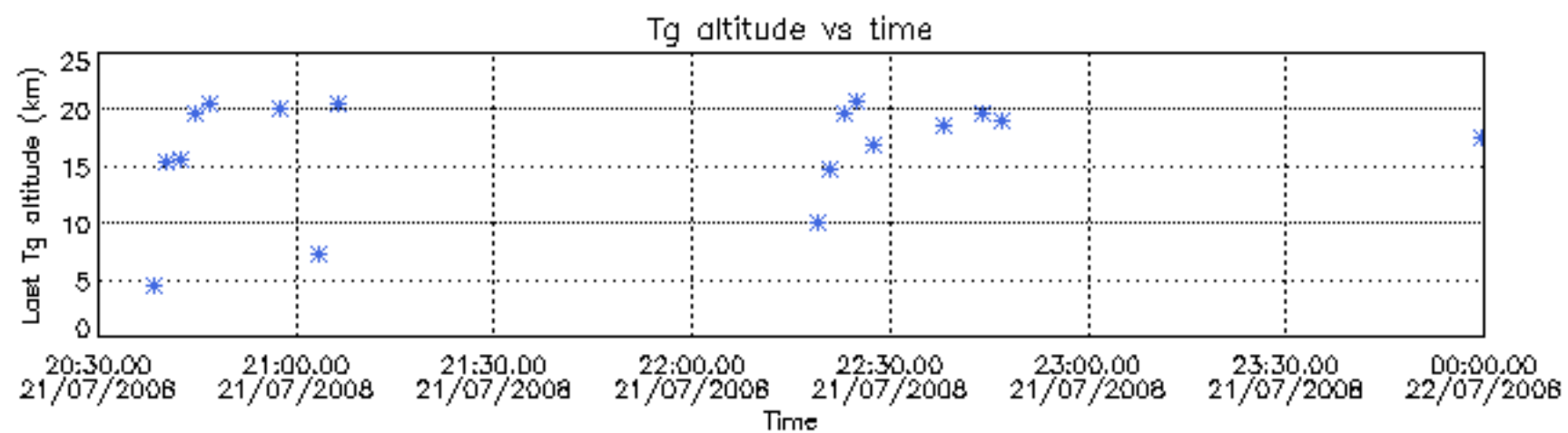
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

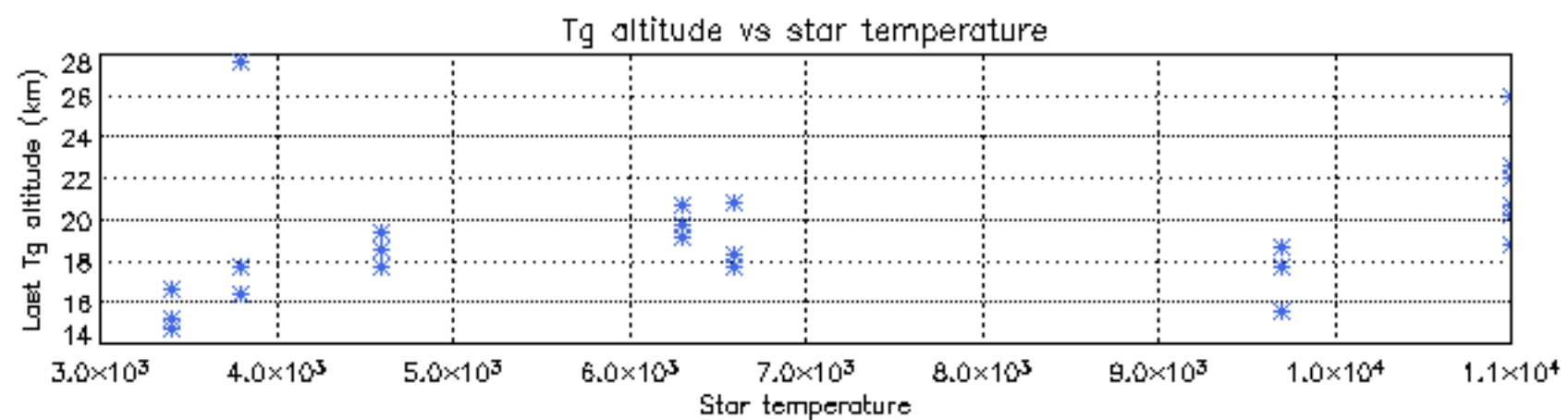
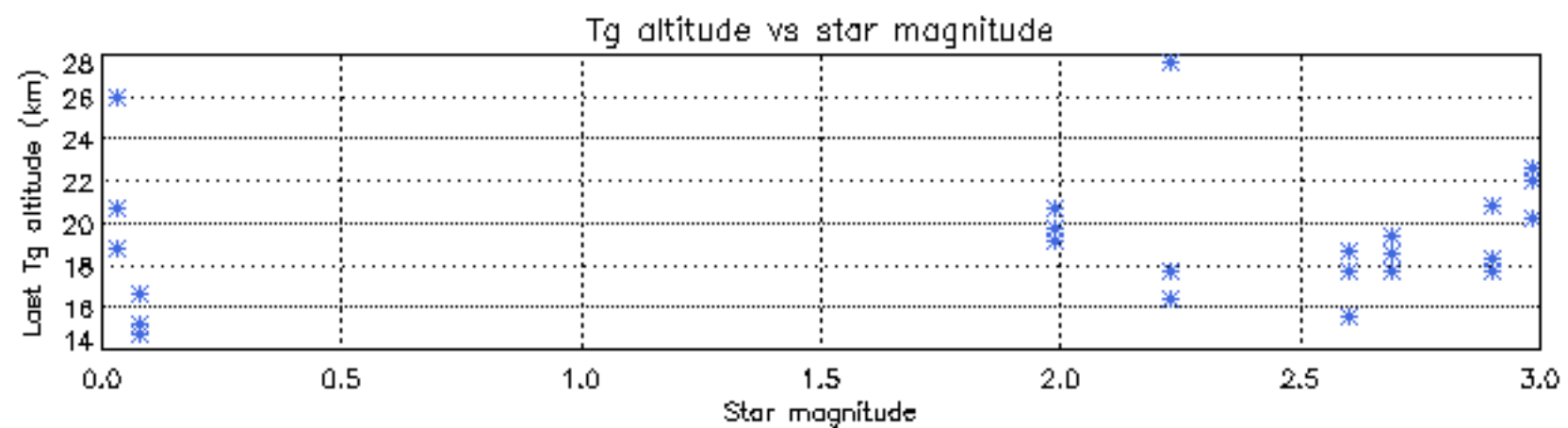
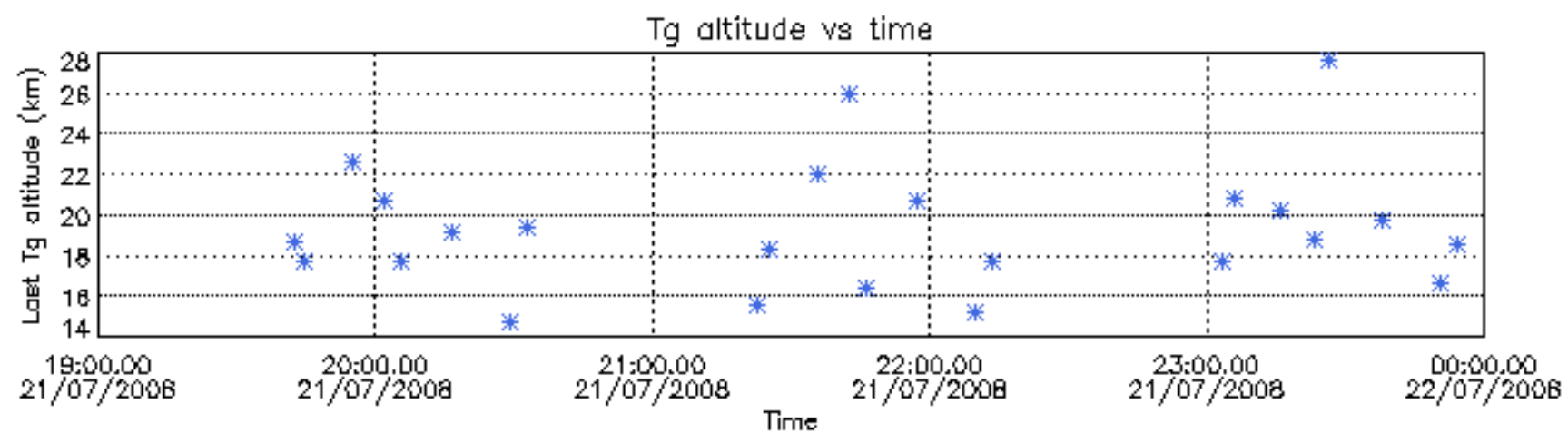


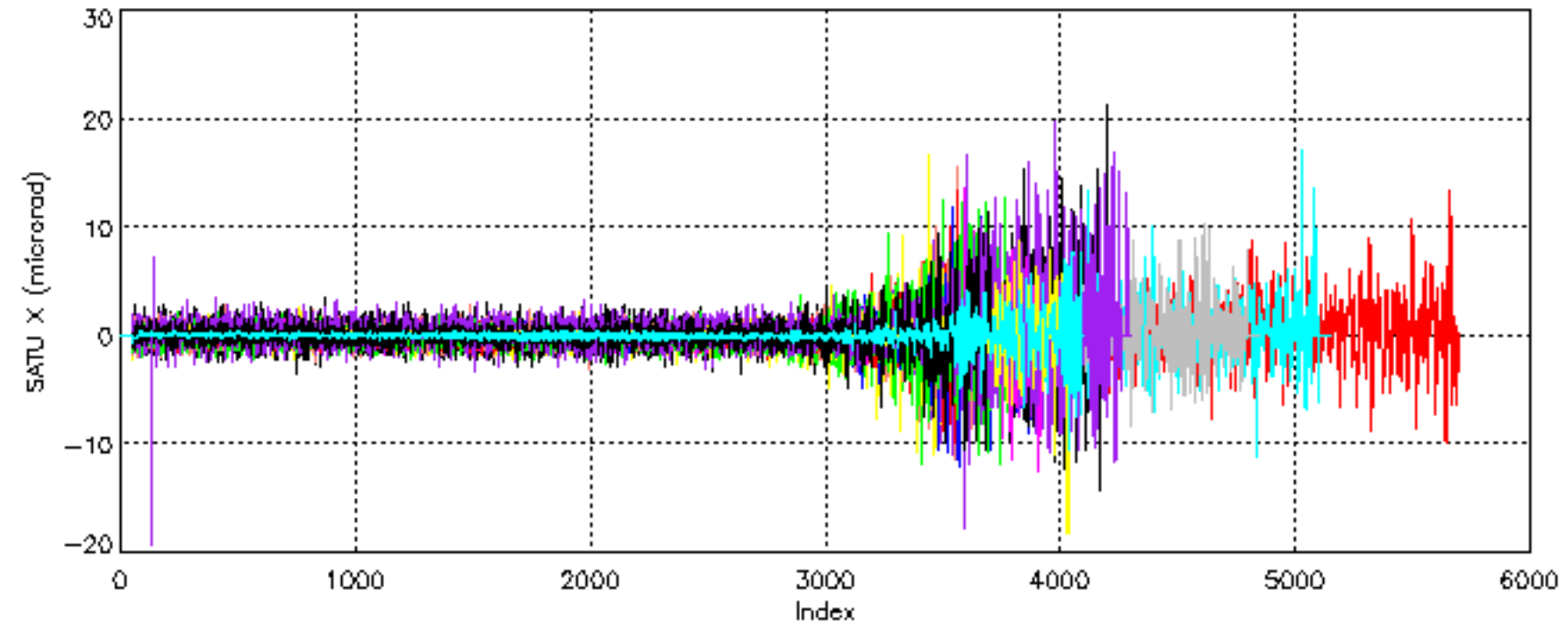
Tangent altitude at which the star is lost

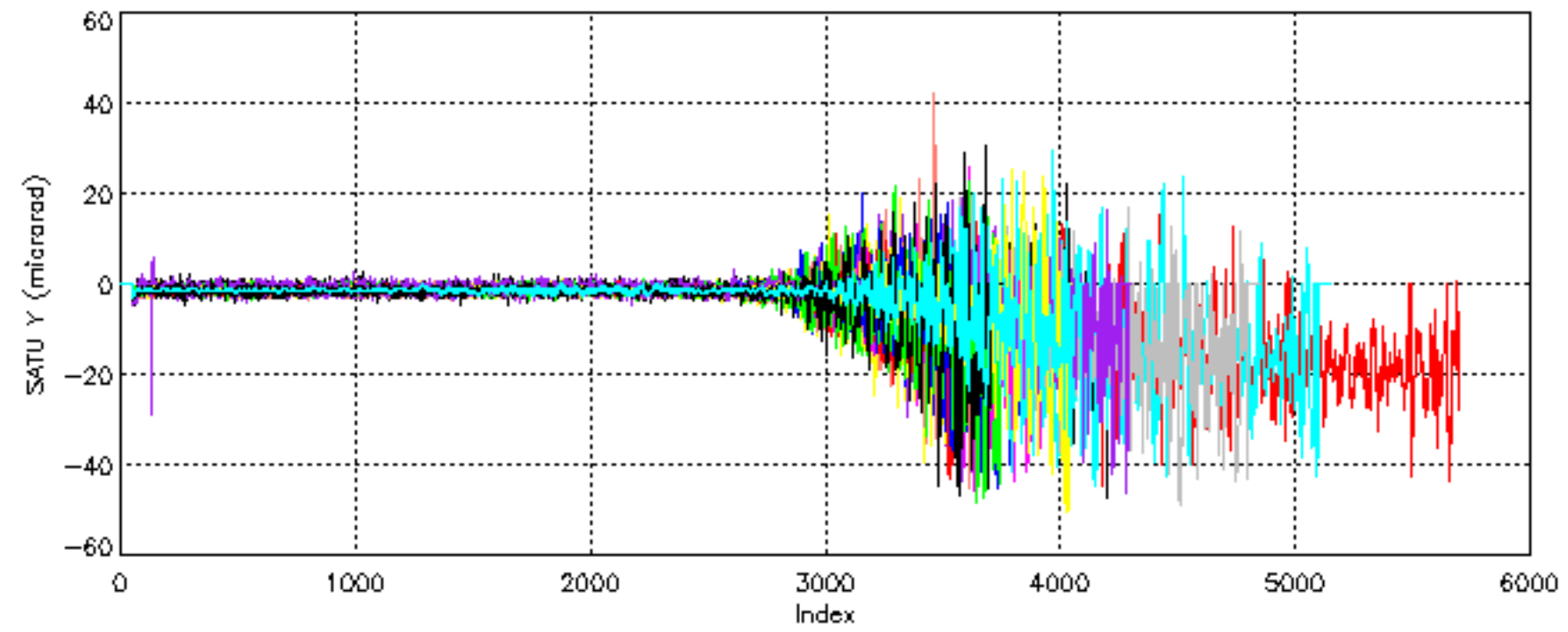


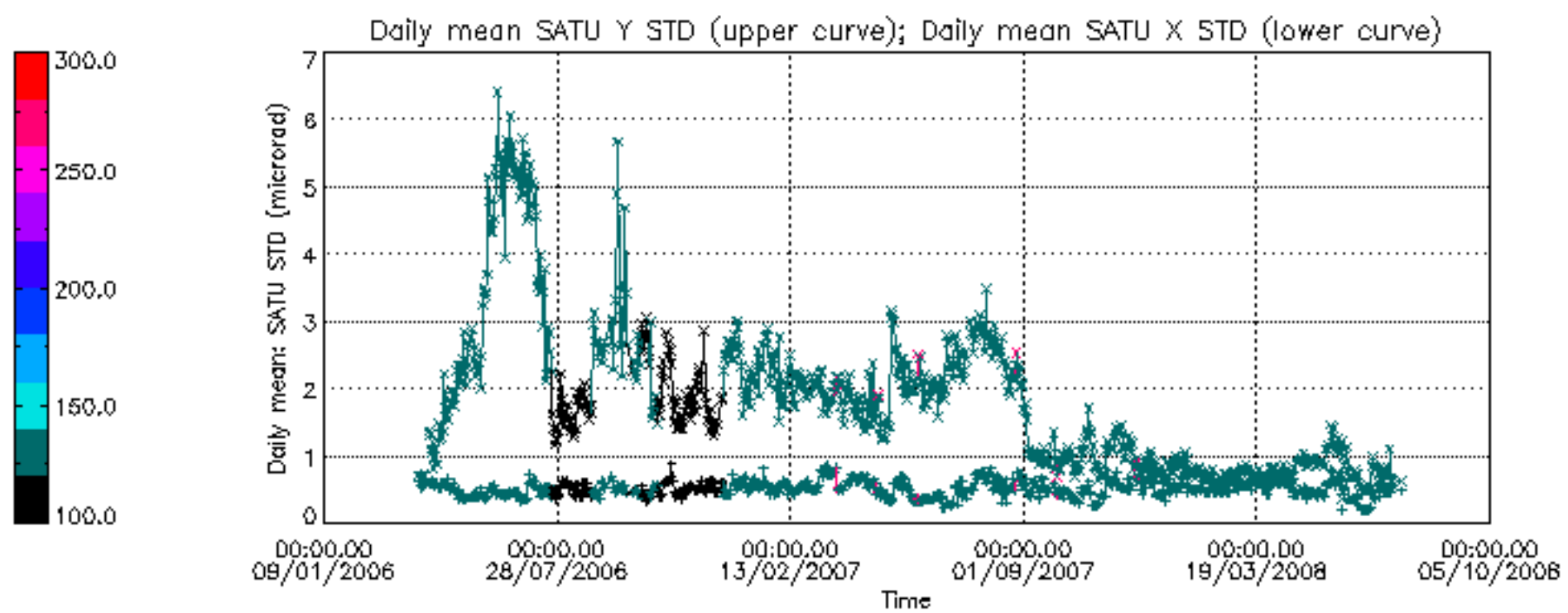


Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20080701\_200504\_000041532070\_00014\_33134\_6038.N1

1; 1066.3; 01-JUL-2008 20:05:04; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;33134  
 2; 1174.8; 01-JUL-2008 20:06:53; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33134  
 3; 1274.5; 01-JUL-2008 20:08:33; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33134  
 4; 1359.7; 01-JUL-2008 20:09:58; Dark ; 42.5; 116; 19Del Sgr ; 2.70; 4100;occ; 85; 0;33134  
 5; 1645.5; 01-JUL-2008 20:14:44; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33134  
 6; 1751.3; 01-JUL-2008 20:16:29; Bright; 25.0; 98; 13Zet Oph ; 2.57; 30000;occ; 50; 0;33134  
 7; 1982.1; 01-JUL-2008 20:20:20; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;33134  
 8; 2121.6; 01-JUL-2008 20:22:40; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33134  
 9; 2286.4; 01-JUL-2008 20:25:24; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33134  
 10; 2449.5; 01-JUL-2008 20:28:08; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33134  
 11; 2806.8; 01-JUL-2008 20:34:05; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33134  
 12; 2953.3; 01-JUL-2008 20:36:31; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33134  
 13; 3194.0; 01-JUL-2008 20:40:32; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;33134  
 14; 3445.6; 01-JUL-2008 20:44:44; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;33134  
 15; 4062.2; 01-JUL-2008 20:55:00; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;33134  
 16; 4166.6; 01-JUL-2008 20:56:45; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;33134  
 17; 4295.5; 01-JUL-2008 20:58:54; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;33134  
 18; 4582.1; 01-JUL-2008 21:03:40; Dark ; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;33134  
 19; 4985.0; 01-JUL-2008 21:10:23; Dark ; 43.0; 94; 92Alp Cet ; 2.53; 3100;occ; 86; 0;33134  
 20; 5205.8; 01-JUL-2008 21:14:04; Dark ; 14.5; 165; 34Gam Eri ; 2.95; 3200;occ; 29; 0;33134

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20080701\_211404\_000060762070\_00014\_33134\_6039.N1

1; -830.1; 01-JUL-2008 21:14:04; Dark ; 36.0; 165; 34Gam Eri ; 2.95; 3200;occ; 72; 0;33134  
 2; -492.2; 01-JUL-2008 21:19:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33134  
 3; -323.4; 01-JUL-2008 21:22:31; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;33134  
 4; 44.9; 01-JUL-2008 21:28:39; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;33135  
 5; 320.1; 01-JUL-2008 21:33:14; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;33135  
 6; 494.1; 01-JUL-2008 21:36:08; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33135  
 7; 754.0; 01-JUL-2008 21:40:28; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;33135  
 8; 1066.4; 01-JUL-2008 21:45:40; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;33135  
 9; 1175.0; 01-JUL-2008 21:47:29; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;33135  
 10; 1274.7; 01-JUL-2008 21:49:09; Dark ; 39.5; 25; 35Lam Sco ; 1.62; 28000;occ; 79; 0;33135  
 11; 1359.8; 01-JUL-2008 21:50:34; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110; 0;33135  
 12; 1645.7; 01-JUL-2008 21:55:20; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33135  
 13; 1982.0; 01-JUL-2008 22:00:56; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;33135  
 14; 2121.6; 01-JUL-2008 22:03:15; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;33135  
 15; 2286.5; 01-JUL-2008 22:06:00; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;33135  
 16; 2449.6; 01-JUL-2008 22:08:43; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;33135  
 17; 2806.7; 01-JUL-2008 22:14:41; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;33135  
 18; 2953.3; 01-JUL-2008 22:17:07; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33135  
 19; 3194.2; 01-JUL-2008 22:21:08; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;33135  
 20; 3445.5; 01-JUL-2008 22:25:19; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33135  
 21; 4062.1; 01-JUL-2008 22:35:36; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;33135  
 22; 4166.7; 01-JUL-2008 22:37:21; Bright; 33.5; 175; 39Del Per ; 3.01; 19400;occ; 67; 0;33135  
 23; 4295.6; 01-JUL-2008 22:39:29; Bright; 38.5; 79; 26Bet Per ; 2.31; 13100;occ; 77; 0;33135  
 24; 4582.2; 01-JUL-2008 22:44:16; Dark ; 41.0; 146; 25Eta Tau ; 2.87; 15200;occ; 82; 0;33135  
 25; 4985.3; 01-JUL-2008 22:50:59; Dark ; 42.0; 94; 92Alp Cet ; 2.53; 3100;occ; 84; 0;33135  
 26; 5206.0; 01-JUL-2008 22:54:40; Dark ; 40.0; 165; 34Gam Eri ; 2.95; 3200;occ; 80; 0;33135

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 16; 2960.4; 08-JUL-2008 01:49:57; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33223  
 17; 3208.6; 08-JUL-2008 01:54:05; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33223  
 18; 3444.7; 08-JUL-2008 01:58:01; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33223  
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 4; 92.2; 08-JUL-2008 02:42:44; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;33224  
 5; 341.0; 08-JUL-2008 02:46:53; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;33224  
 6; 794.8; 08-JUL-2008 02:54:27; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;33224  
 7; 1081.5; 08-JUL-2008 02:59:13; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;33224  
 8; 1191.5; 08-JUL-2008 03:01:04; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33224  
 9; 1291.1; 08-JUL-2008 03:02:43; Dark ; 39.5; 25; 35Lam Sco ; 1.62; 28000;occ; 79; 0;33224  
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 11; 1660.3; 08-JUL-2008 03:08:52; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;33224  
 12; 1984.6; 08-JUL-2008 03:14:17; Bright; 35.5; 126; 60Bet Oph ; 2.77; 4250;occ; 71; 0;33224  
 13; 2122.3; 08-JUL-2008 03:16:34; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;33224  
 14; 2304.4; 08-JUL-2008 03:19:36; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;33224  
 15; 2461.3; 08-JUL-2008 03:22:13; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33224  
 16; 2797.8; 08-JUL-2008 03:27:50; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;33224  
 17; 2960.5; 08-JUL-2008 03:30:32; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;33224  
 18; 3208.8; 08-JUL-2008 03:34:41; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;33224  
 19; 3444.7; 08-JUL-2008 03:38:37; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;33224

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 5; 92.8; 08-JUL-2008 04:23:21; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;33225  
 6; 341.2; 08-JUL-2008 04:27:29; Dark ; 36.0; 135; Bet Hyi ; 2.82; 5800;occ; 72; 0;33225  
 7; 795.2; 08-JUL-2008 04:35:03; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;33225



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10; 1291.4; 08-JUL-2008 04:43:19; Dark ; 38.0; 25; 35Lam Sco ; 1.62; 28000;occ; 76; 0;33225
11; 1379.5; 08-JUL-2008 04:44:48; Dark ; 45.0; 116; 19Del Sgr ; 2.70; 4100;occ; 90; 0;33225
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14; 2122.4; 08-JUL-2008 04:57:10; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;33225
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16; 2461.5; 08-JUL-2008 05:02:50; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;33225
17; 2797.7; 08-JUL-2008 05:08:26; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;33225
18; 2960.7; 08-JUL-2008 05:11:09; Bright; 32.5; 119; 14Eta Dra ; 2.73; 4700;occ; 65; 0;33225
19; 3209.0; 08-JUL-2008 05:15:17; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33225
20; 3444.8; 08-JUL-2008 05:19:13; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33225
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3; -468.3; 08-JUL-2008 05:54:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33225
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5; 93.4; 08-JUL-2008 06:03:57; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;33226
6; 341.4; 08-JUL-2008 06:08:05; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;33226
7; 795.7; 08-JUL-2008 06:15:40; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;33226
8; 1081.8; 08-JUL-2008 06:20:26; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;33226
9; 1191.9; 08-JUL-2008 06:22:16; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;33226
10; 1291.5; 08-JUL-2008 06:23:56; Dark ; 39.5; 25; 35Lam Sco ; 1.62; 28000;occ; 79; 0;33226
11; 1379.6; 08-JUL-2008 06:25:24; Dark ; 46.0; 116; 19Del Sgr ; 2.70; 4100;occ; 92; 0;33226
12; 1660.6; 08-JUL-2008 06:30:05; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33226
13; 1984.8; 08-JUL-2008 06:35:29; Bright; 35.5; 126; 60Bet Oph ; 2.77; 4250;occ; 71; 0;33226
14; 2122.4; 08-JUL-2008 06:37:46; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;33226
15; 2304.9; 08-JUL-2008 06:40:49; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33226
16; 2461.6; 08-JUL-2008 06:43:26; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;33226
17; 2797.7; 08-JUL-2008 06:49:02; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;33226
18; 2960.7; 08-JUL-2008 06:51:45; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33226
19; 3209.1; 08-JUL-2008 06:55:53; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;33226
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3; -468.0; 08-JUL-2008 07:35:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33226
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5; 93.9; 08-JUL-2008 07:44:34; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;33227
6; 341.7; 08-JUL-2008 07:48:42; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;33227
7; 796.1; 08-JUL-2008 07:56:16; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;33227
8; 1081.9; 08-JUL-2008 08:01:02; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;33227
9; 1192.0; 08-JUL-2008 08:02:52; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;33227
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3; 2122.5; 08-JUL-2008 08:18:22; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;33227
4; 2305.1; 08-JUL-2008 08:21:25; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;33227
5; 2461.9; 08-JUL-2008 08:24:02; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33227
6; 2797.6; 08-JUL-2008 08:29:38; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33227
7; 2960.9; 08-JUL-2008 08:32:21; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33227
8; 3209.3; 08-JUL-2008 08:36:29; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33227
9; 3444.7; 08-JUL-2008 08:40:25; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;33227
10; 5080.2; 08-JUL-2008 09:07:40; Dark ; 43.0; 7; 19Bet Ori ; 0.10; 14000;occ; 86; 0;33227
11; 5237.0; 08-JUL-2008 09:10:17; Dark ; 43.0; 165; 34Gam Eri ; 2.95; 3200;occ; 86; 0;33227
12; 5568.2; 08-JUL-2008 09:15:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33227
13; 5759.0; 08-JUL-2008 09:18:59; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;33227
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16; 6832.4; 08-JUL-2008 09:36:52; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33227
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18; 7228.1; 08-JUL-2008 09:43:28; Dark ; 39.5; 40; The Sco ; 1.86; 7100;occ; 79; 0;33227
19; 7327.7; 08-JUL-2008 09:45:08; Dark ; 38.5; 25; 35Lam Sco ; 1.62; 28000;occ; 77; 0;33227
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 4; 2462.0; 08-JUL-2008 10:04:38; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;33228
 5; 2797.5; 08-JUL-2008 10:10:13; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33228
 6; 2961.0; 08-JUL-2008 10:12:57; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;33228
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 19; 5150.5; 28-JUL-2008 00:17:06; Dark ; 40.0; 7; 19Bet Ori ; 0.10; 14000;occ; 80; 0;33508  
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 4; 3119.8; 27-JUL-2008 08:37:52; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;33499  
 5; 3441.8; 27-JUL-2008 08:43:14; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;33499  
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 7; 4504.4; 27-JUL-2008 09:00:57; Bright; 40.0; 28; 12Bet Tau ; 1.65; 15200;occ; 80; 0;33499  
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 12; 5282.4; 27-JUL-2008 09:13:55; Dark ; 39.0; 101; 11Alp Lep ; 2.58; 7000;occ; 78; 0;33499  
 13; 5392.4; 27-JUL-2008 09:15:45; Dark ; 52.0; 165; 34Gam Eri ; 2.95; 3200;occ; 104; 0;33499  
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 17; 6726.3; 27-JUL-2008 09:37:59; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;33499  
 18; 6921.2; 27-JUL-2008 09:41:14; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;33499  
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 3; 2710.3; 27-JUL-2008 10:11:39; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33500  
 4; 3119.3; 27-JUL-2008 10:18:28; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;33500  
 5; 3441.8; 27-JUL-2008 10:23:50; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33500  
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 7; 4504.5; 27-JUL-2008 10:41:33; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;33500  
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13; 5393.1; 27-JUL-2008 10:56:22; Dark ; 51.5; 165; 34Gam Eri ; 2.95; 3200;occ; 103; 0;33500
14; 5693.3; 27-JUL-2008 11:01:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33500
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17; 6921.7; 27-JUL-2008 11:21:50; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;33500
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 3; 2709.9; 27-JUL-2008 11:52:14; Bright; 37.0; 144; 18Del Cyg ; 2.86; 11000;occ; 74; 0;33501
 4; 3118.9; 27-JUL-2008 11:59:03; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;33501
 5; 3441.9; 27-JUL-2008 12:04:26; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33501
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9; 2567.6; 28-JUL-2008 01:14:39; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;33509
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12; 3441.6; 28-JUL-2008 01:29:13; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;33509
13; 4199.6; 28-JUL-2008 01:41:51; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;33509
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