

GOMOS Daily Report 01-NOV-2009

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	03NOV2009 04:33:31
Data source version	GOMOS/5.00L03
Start time of products	01NOV2009 00:07:51
Stop time of products	01NOV2009 23:53:29
Store outputs in DB	Yes
Nb of level 1b prods	85
Nb of prods with errors	1

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

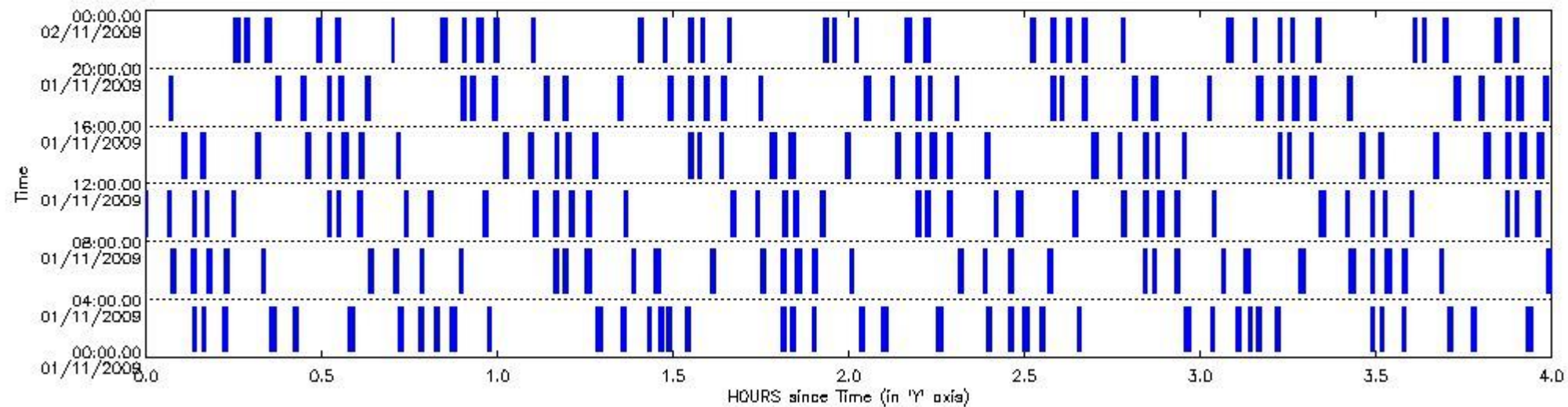
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

No missing products.

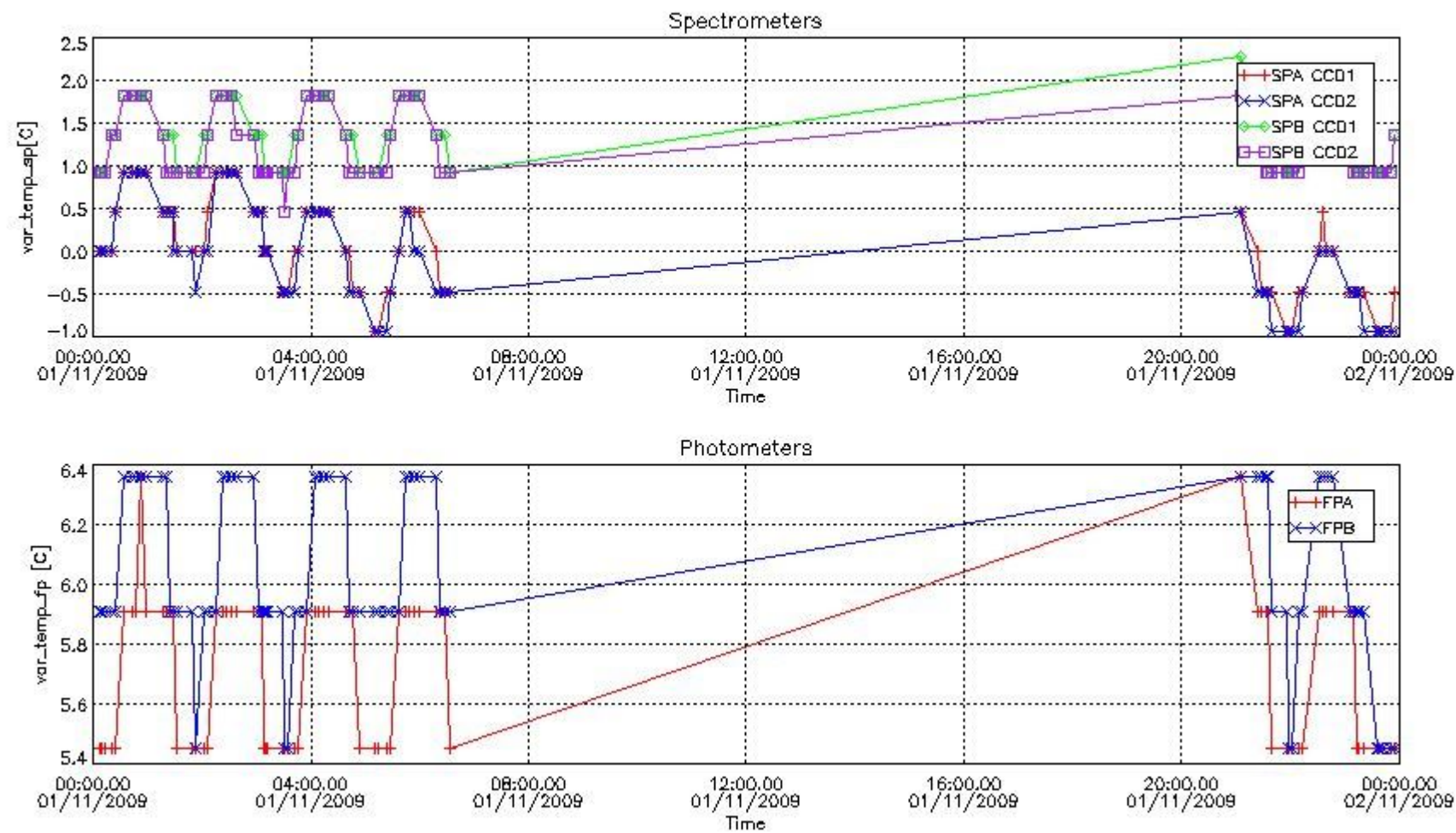
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091101_000751_000000402083_00474_40107_2372.N1	01-NOV-2009 00:07:51	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	40107	No
2	GOM_TRA_1PNPDE20091101_000927_000000372083_00474_40107_2373.N1	01-NOV-2009 00:09:27	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	40107	No
3	GOM_TRA_1PNPDE20091101_001308_000000392083_00474_40107_2374.N1	01-NOV-2009 00:13:08	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	40107	No
4	GOM_TRA_1PNPDE20091101_002108_000000542083_00474_40107_2375.N1	01-NOV-2009 00:21:08	Bright	54.000	166	17Eps Leo	2.9800	6000.0	108	40107	No
5	GOM_TRA_1PNPDE20091101_002457_000000602083_00474_40107_2376.N1	01-NOV-2009 00:24:57	Bright	59.500	22	32Alp Leo	1.3600	15200.	119	40107	No
6	GOM_TRA_1PNPDE20091101_003421_000000692083_00474_40107_2365.N1	01-NOV-2009 00:34:21	Dark	68.500	48	30Alp Hya	1.9770	4100.0	137	40107	No
7	GOM_TRA_1PNPDE20091101_004255_000000492083_00474_40107_2366.N1	01-NOV-2009 00:42:55	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	40107	No
8	GOM_TRA_1PNPDE20091101_004632_000000462083_00475_40108_2367.N1	01-NOV-2009 00:46:32	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	40108	No
9	GOM_TRA_1PNPDE20091101_005159_000000512083_00475_40108_2368.N1	01-NOV-2009 00:51:59	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	40108	No
10	GOM_TRA_1PNPDE20091101_005823_000000292083_00475_40108_2369.N1	01-NOV-2009 00:58:23	Dark	29.000	108	Alp Col	2.6520	15200.	58	40108	No
11	GOM_TRA_1PNPDE20091101_011645_000000582083_00475_40108_2370.N1	01-NOV-2009 01:16:45	Twilight_stray	58.000	94	92Alp Cet	2.5260	3100.0	116	40108	No
12	GOM_TRA_1PNPDE20091101_012108_000000402083_00475_40108_2371.N1	01-NOV-2009 01:21:08	Bright	40.000	105	6Bet Ari	2.6450	8900.0	80	40108	No

13	GOM_TRA_1PNPDE20091101_012533_000000402083_00475_40108_2372.N1	01-NOV-2009 01:25:33	Bright	39.500	173	4Bet Tri	3.0040	8900.0	79	40108	No
14	GOM_TRA_1PNPDE20091101_012735_000000422083_00475_40108_2373.N1	01-NOV-2009 01:27:35	Bright	41.500	73	57Gam1And	2.2600	13100.	83	40108	No
15	GOM_TRA_1PNPDE20091101_012857_000000462083_00475_40108_2374.N1	01-NOV-2009 01:28:57	Bright	46.000	79	26Bet Per	2.3100	13100.	92	40108	No
16	GOM_TRA_1PNPDE20091101_013209_000000422083_00475_40108_2375.N1	01-NOV-2009 01:32:09	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	40108	No
17	GOM_TRA_1PNPDE20091101_014827_000000392083_00475_40108_2376.N1	01-NOV-2009 01:48:27	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	40108	No
18	GOM_TRA_1PNPDE20091101_015003_000000382083_00475_40108_2377.N1	01-NOV-2009 01:50:03	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	40108	No
19	GOM_TRA_1PNPDE20091101_015344_000000392083_00475_40108_2378.N1	01-NOV-2009 01:53:44	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	40108	No
20	GOM_TRA_1PNPDE20091101_020144_000000462083_00475_40108_2379.N1	01-NOV-2009 02:01:44	Bright	46.000	166	17Eps Leo	2.9800	6000.0	92	40108	No
21	GOM_TRA_1PNPDE20091101_020533_000000582083_00475_40108_2380.N1	01-NOV-2009 02:05:33	Bright	58.000	22	32Alp Leo	1.3600	15200.	116	40108	No
22	GOM_TRA_1PNPDE20091101_021458_000000662083_00475_40108_2373.N1	01-NOV-2009 02:14:58	Dark	66.000	48	30Alp Hya	1.9770	4100.0	132	40108	No
23	GOM_TRA_1PNPDE20091101_022332_000000462083_00475_40108_2374.N1	01-NOV-2009 02:23:32	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	40108	No
24	GOM_TRA_1PNPDE20091101_022709_000000482083_00476_40109_2375.N1	01-NOV-2009 02:27:09	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	40109	No
25	GOM_TRA_1PNPDE20091101_023236_000000482083_00476_40109_2376.N1	01-NOV-2009 02:32:36	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	40109	No
26	GOM_TRA_1PNPDE20091101_023901_000000292083_00476_40109_2377.N1	01-NOV-2009 02:39:01	Dark	29.000	108	Alp Col	2.6520	15200.	58	40109	No
27	GOM_TRA_1PNPDE20091101_025721_000000572083_00476_40109_2378.N1	01-NOV-2009 02:57:21	Tw_i_and_stray	56.500	94	92Alp Cet	2.5260	3100.0	113	40109	No
28	GOM_TRA_1PNPDE20091101_030144_000000392083_00476_40109_2379.N1	01-NOV-2009 03:01:44	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	40109	No
29	GOM_TRA_1PNPDE20091101_030609_000000392083_00476_40109_2380.N1	01-NOV-2009 03:06:09	Bright	39.000	173	4Bet Tri	3.0040	8900.0	78	40109	No
30	GOM_TRA_1PNPDE20091101_030811_000000412083_00476_40109_2381.N1	01-NOV-2009 03:08:11	Bright	40.500	73	57Gam1And	2.2600	13100.	81	40109	No
31	GOM_TRA_1PNPDE20091101_030932_000000452083_00476_40109_2382.N1	01-NOV-2009 03:09:32	Bright	44.500	79	26Bet Per	2.3100	13100.	89	40109	No
32	GOM_TRA_1PNPDE20091101_031244_000000432083_00476_40109_2383.N1	01-NOV-2009 03:12:44	Bright	42.500	160	23Gam Per	2.9300	4700.0	85	40109	No
33	GOM_TRA_1PNPDE20091101_032903_000000402083_00476_40109_2380.N1	01-NOV-2009 03:29:03	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	40109	No
34	GOM_TRA_1PNPDE20091101_033039_000000382083_00476_40109_2381.N1	01-NOV-2009 03:30:39	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	40109	No
35	GOM_TRA_1PNPDE20091101_033420_000000482083_00476_40109_2382.N1	01-NOV-2009 03:34:20	Bright	47.500	174	52Psi UMa	3.0040	4400.0	95	40109	No
36	GOM_TRA_1PNPDE20091101_034221_000000462083_00476_40109_2383.N1	01-NOV-2009 03:42:21	Bright	46.000	166	17Eps Leo	2.9800	6000.0	92	40109	No
37	GOM_TRA_1PNPDE20091101_034610_000000532083_00476_40109_2384.N1	01-NOV-2009 03:46:10	Bright	53.000	22	32Alp Leo	1.3600	15200.	106	40109	No
38	GOM_TRA_1PNPDE20091101_035535_000000662083_00476_40109_2385.N1	01-NOV-2009 03:55:35	Dark	66.000	48	30Alp Hya	1.9770	4100.0	132	40109	No
39	GOM_TRA_1PNPDE20091101_040409_000000532083_00476_40109_2386.N1	01-NOV-2009 04:04:09	Dark	52.500	65	Lam Vel	2.2040	4400.0	105	40109	No
40	GOM_TRA_1PNPDE20091101_040746_000000452083_00477_40110_2387.N1	01-NOV-2009 04:07:46	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	40110	No
41	GOM_TRA_1PNPDE20091101_041313_000000502083_00477_40110_2388.N1	01-NOV-2009 04:13:13	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	40110	No
42	GOM_TRA_1PNPDE20091101_041938_000000312083_00477_40110_2389.N1	01-NOV-2009 04:19:38	Dark	31.000	108	Alp Col	2.6520	15200.	62	40110	No
43	GOM_TRA_1PNPDE20091101_043757_000000542083_00477_40110_2390.N1	01-NOV-2009 04:37:57	Tw_i_and_stray	53.500	94	92Alp Cet	2.5260	3100.0	107	40110	No
44	GOM_TRA_1PNPDE20091101_044220_000000402083_00477_40110_2391.N1	01-NOV-2009 04:42:20	Bright	40.000	105	6Bet Ari	2.6450	8900.0	80	40110	No
45	GOM_TRA_1PNPDE20091101_044645_000000402083_00477_40110_2392.N1	01-NOV-2009 04:46:45	Bright	40.000	173	4Bet Tri	3.0040	8900.0	80	40110	No
46	GOM_TRA_1PNPDE20091101_045320_000000422083_00477_40110_2393.N1	01-NOV-2009 04:53:20	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	40110	No
47	GOM_TRA_1PNPDE20091101_050939_000000422083_00477_40110_2390.N1	01-NOV-2009 05:09:39	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	40110	No
48	GOM_TRA_1PNPDE20091101_051115_000000382083_00477_40110_2391.N1	01-NOV-2009 05:11:15	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	40110	No
49	GOM_TRA_1PNPDE20091101_051456_000000562083_00477_40110_2392.N1	01-NOV-2009 05:14:56	Bright	56.000	174	52Psi UMa	3.0040	4400.0	112	40110	No
50	GOM_TRA_1PNPDE20091101_052257_000000382083_00477_40110_2393.N1	01-NOV-2009 05:22:57	Tw_i_and_stray	38.000	166	17Eps Leo	2.9800	6000.0	76	40110	No
51	GOM_TRA_1PNPDE20091101_052647_000000552083_00477_40110_2394.N1	01-NOV-2009 05:26:47	Bright	55.000	22	32Alp Leo	1.3600	15200.	110	40110	No
52	GOM_TRA_1PNPDE20091101_053613_000000592083_00477_40110_2395.N1	01-NOV-2009 05:36:13	Dark	59.000	48	30Alp Hya	1.9770	4100.0	118	40110	No
53	GOM_TRA_1PNPDE20091101_054446_000000582083_00477_40110_2396.N1	01-NOV-2009 05:44:46	Dark	58.000	65	Lam Vel	2.2040	4400.0	116	40110	No
54	GOM_TRA_1PNPDE20091101_054823_000000452083_00478_40111_2397.N1	01-NOV-2009 05:48:23	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	40111	No
55	GOM_TRA_1PNPDE20091101_055350_000000482083_00478_40111_2398.N1	01-NOV-2009 05:53:50	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	40111	No
56	GOM_TRA_1PNPDE20091101_060015_000000312083_00478_40111_2399.N1	01-NOV-2009 06:00:15	Dark	31.000	108	Alp Col	2.6520	15200.	62	40111	No
57	GOM_TRA_1PNPDE20091101_061832_000000542083_00478_40111_2400.N1	01-NOV-2009 06:18:32	Tw_i_and_stray	53.500	94	92Alp Cet	2.5260	3100.0	107	40111	No
58	GOM_TRA_1PNPDE20091101_062256_000000392083_00478_40111_2401.N1	01-NOV-2009 06:22:56	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	40111	No
59	GOM_TRA_1PNPDE20091101_062721_000000402083_00478_40111_2402.N1	01-NOV-2009 06:27:21	Bright	40.000	173	4Bet Tri	3.0040	8900.0	80	40111	No
60	GOM_TRA_1PNPDE20091101_063356_000000422083_00478_40111_2403.N1	01-NOV-2009 06:33:56	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	40111	No
61	GOM_TRA_1PNPDE20091101_210547_000000402083_00487_40120_2432.N1	01-NOV-2009 21:05:47	Dark	40.000	108	Alp Col	2.6520	15200.	80	40120	Yes
62	GOM_TRA_1PNPDE20091101_212353_000000542083_00487_40120_2433.N1	01-NOV-2009 21:23:53	Tw_i_and_stray	54.000	94	92Alp Cet	2.5260	3100.0	108	40120	No
63	GOM_TRA_1PNPDE20091101_212818_000000392083_00487_40120_2434.N1	01-NOV-2009 21:28:18	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	40120	No
64	GOM_TRA_1PNPDE20091101_213241_000000392083_00487_40120_2435.N1	01-NOV-2009 21:32:41	Bright	39.000	173	4Bet Tri	3.0040	8900.0	78	40120	No
65	GOM_TRA_1PNPDE20091101_213444_000000382083_00487_40120_2436.N1	01-NOV-2009 21:34:44	Bright	37.500	73	57Gam1And	2.2600	13100.	75	40120	No
66	GOM_TRA_1PNPDE20091101_213914_000000422083_00487_40120_2437.N1	01-NOV-2009 21:39:14	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	40120	No
67	GOM_TRA_1PNPDE20091101_215537_000000412083_00487_40120_2438.N1	01-NOV-2009 21:55:37	Bright	41.000	36	50Alp UMa	1.8000	6300.0	82	40120	No
68	GOM_TRA_1PNPDE20091101_215714_000000382083_00487_40120_2439.N1	01-NOV-2009 21:57:14	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	40120	No
69	GOM_TRA_1PNPDE20091101_220056_000000402083_00487_40120_2440.N1	01-NOV-2009 22:00:56	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	40120	No
70	GOM_TRA_1PNPDE20091101_220940_000000512083_00487_40120_2441.N1	01-NOV-2009 22:09:40	Bright	50.500	51	41Gam1Leo	2.0100	4500.0	101	40120	No
71	GOM_TRA_1PNPDE20091101_221252_000000592083_00487_40120_2442.N1	01-NOV-2009 22:12:52	Bright	59.000	22	32Alp Leo	1.3600	15200.	118	40120	No

72	GOM_TRA_1PNPDE20091101_223054_000000552083_00487_40120_2438.N1	01-NOV-2009 22:30:54	Dark	55.000	65	Lam Vel	2.2040	4400.0	110	40120	No
73	GOM_TRA_1PNPDE20091101_223432_000000462083_00488_40121_2439.N1	01-NOV-2009 22:34:32	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	40121	No
74	GOM_TRA_1PNPDE20091101_223957_000000492083_00488_40121_2440.N1	01-NOV-2009 22:39:57	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	40121	No
75	GOM_TRA_1PNPDE20091101_224624_000000402083_00488_40121_2441.N1	01-NOV-2009 22:46:24	Dark	40.000	108	Alp Col	2.6520	15200.	80	40121	No
76	GOM_TRA_1PNPDE20091101_230428_000000582083_00488_40121_2442.N1	01-NOV-2009 23:04:28	Twilight_stray	58.000	94	92Alp Cet	2.5260	3100.0	116	40121	No
77	GOM_TRA_1PNPDE20091101_230853_000000372083_00488_40121_2443.N1	01-NOV-2009 23:08:53	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	40121	No
78	GOM_TRA_1PNPDE20091101_231317_000000382083_00488_40121_2444.N1	01-NOV-2009 23:13:17	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	40121	No
79	GOM_TRA_1PNPDE20091101_231519_000000372083_00488_40121_2445.N1	01-NOV-2009 23:15:19	Bright	36.500	73	57Gam1And	2.2600	13100.	73	40121	No
80	GOM_TRA_1PNPDE20091101_231950_000000422083_00488_40121_2446.N1	01-NOV-2009 23:19:50	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	40121	No
81	GOM_TRA_1PNPDE20091101_233613_000000392083_00488_40121_2447.N1	01-NOV-2009 23:36:13	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	40121	No
82	GOM_TRA_1PNPDE20091101_233749_000000372083_00488_40121_2448.N1	01-NOV-2009 23:37:49	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	40121	No
83	GOM_TRA_1PNPDE20091101_234132_000000462083_00488_40121_2449.N1	01-NOV-2009 23:41:32	Bright	45.500	174	52Psi UMa	3.0040	4400.0	91	40121	No
84	GOM_TRA_1PNPDE20091101_235016_000000692083_00488_40121_2450.N1	01-NOV-2009 23:50:16	Bright	69.000	51	41Gam1Leo	2.0100	4500.0	138	40121	No
85	GOM_TRA_1PNPDE20091101_235329_000000562083_00488_40121_2451.N1	01-NOV-2009 23:53:29	Bright	55.500	22	32Alp Leo	1.3600	15200.	111	40121	No

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



4. Overview of dark signal processing per product

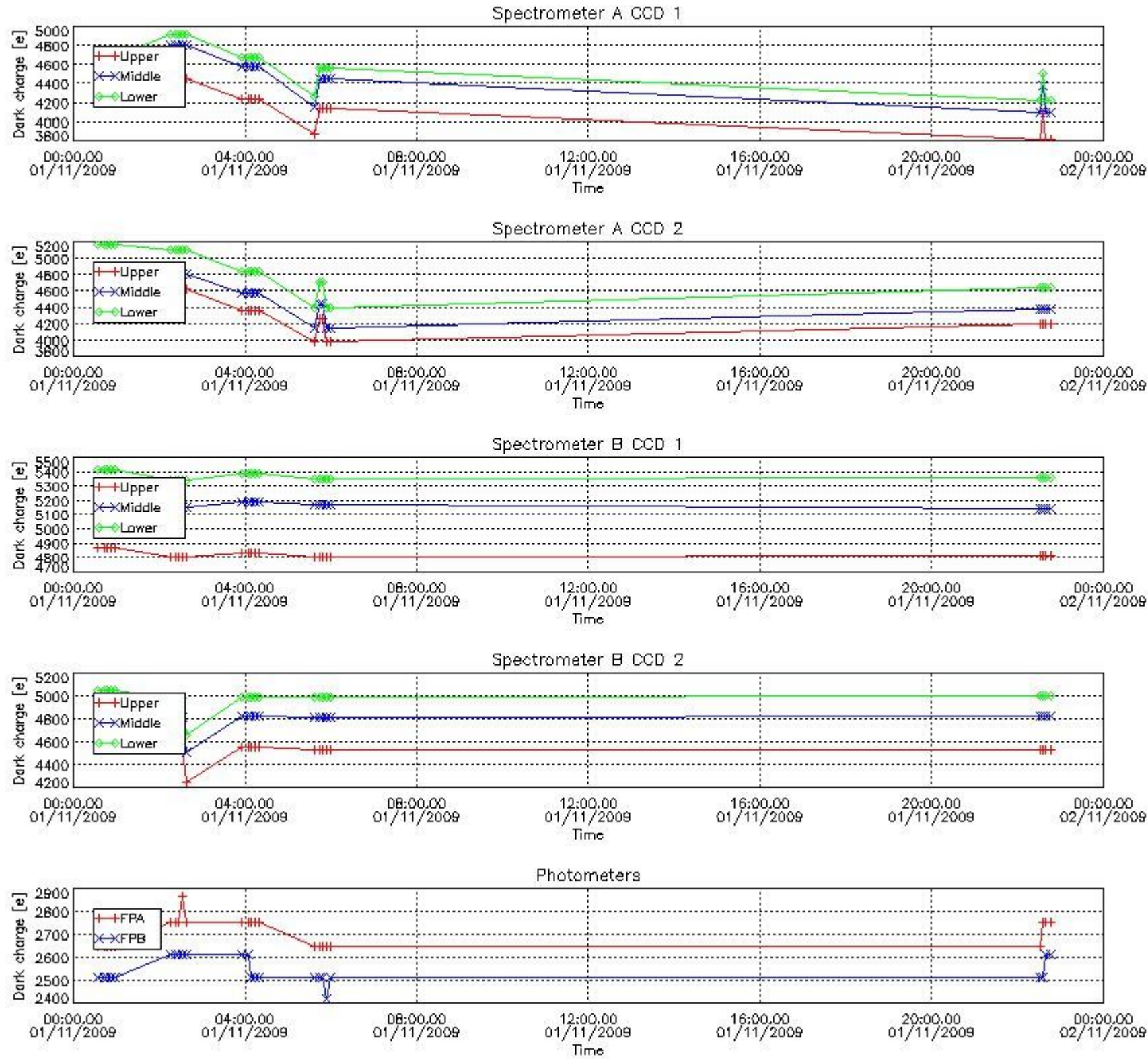
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091101_210547_000000402083_00487_40120_2432.N1	DC map with no T dep.
GOM_TRA_1PNPDE20091101_212353_000000542083_00487_40120_2433.N1	DC map used
GOM_TRA_1PNPDE20091101_212818_000000392083_00487_40120_2434.N1	DC map used
GOM_TRA_1PNPDE20091101_213241_000000392083_00487_40120_2435.N1	DC map used
GOM_TRA_1PNPDE20091101_213444_000000382083_00487_40120_2436.N1	DC map used
GOM_TRA_1PNPDE20091101_213914_000000422083_00487_40120_2437.N1	DC map used
GOM_TRA_1PNPDE20091101_215537_000000412083_00487_40120_2438.N1	DC map used
GOM_TRA_1PNPDE20091101_215714_000000382083_00487_40120_2439.N1	DC map used
GOM_TRA_1PNPDE20091101_220056_000000402083_00487_40120_2440.N1	DC map used
GOM_TRA_1PNPDE20091101_220940_000000512083_00487_40120_2441.N1	DC map used
GOM_TRA_1PNPDE20091101_221252_000000592083_00487_40120_2442.N1	DC map used

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



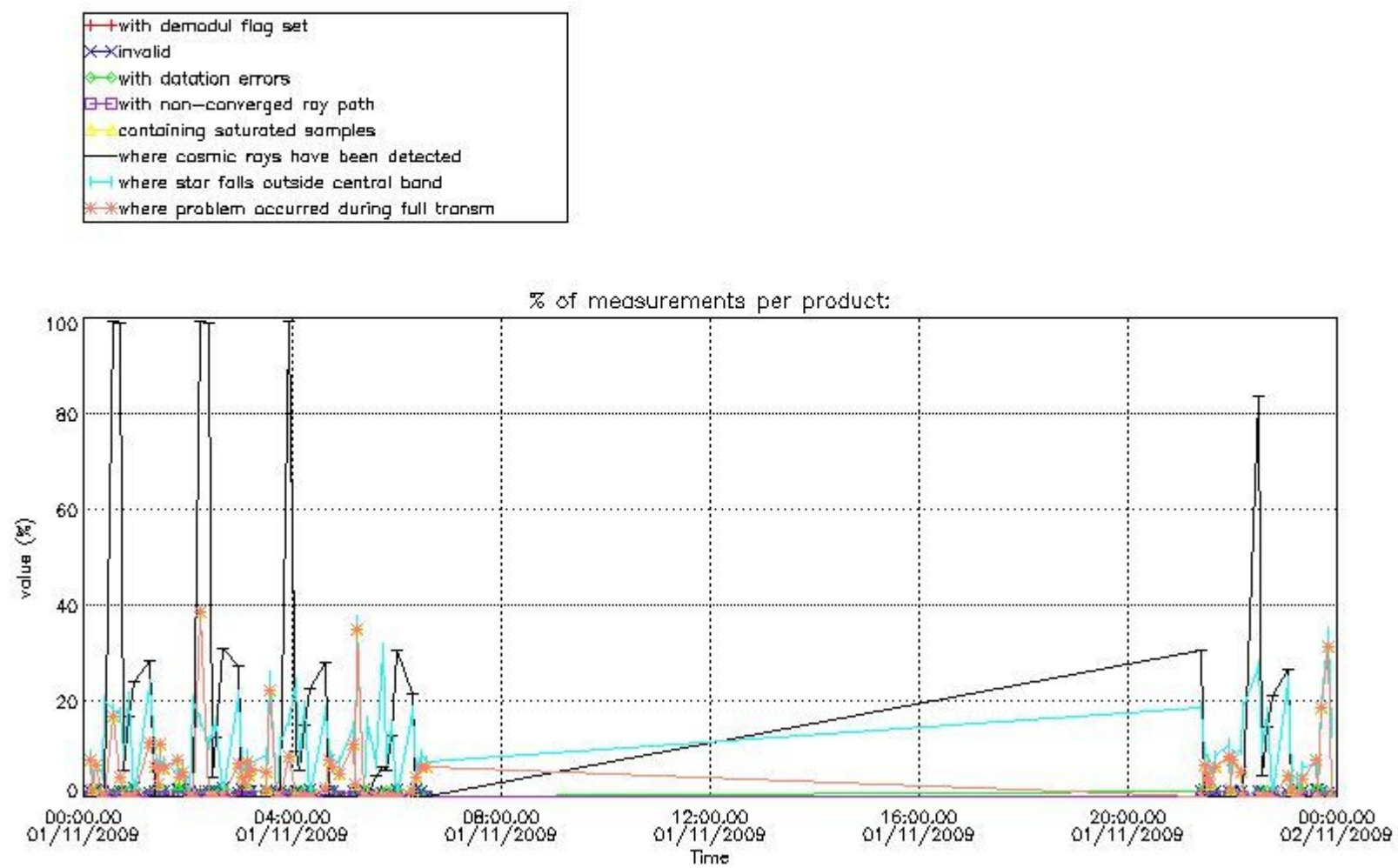
5. Demodulation flag and quality information monitoring

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.

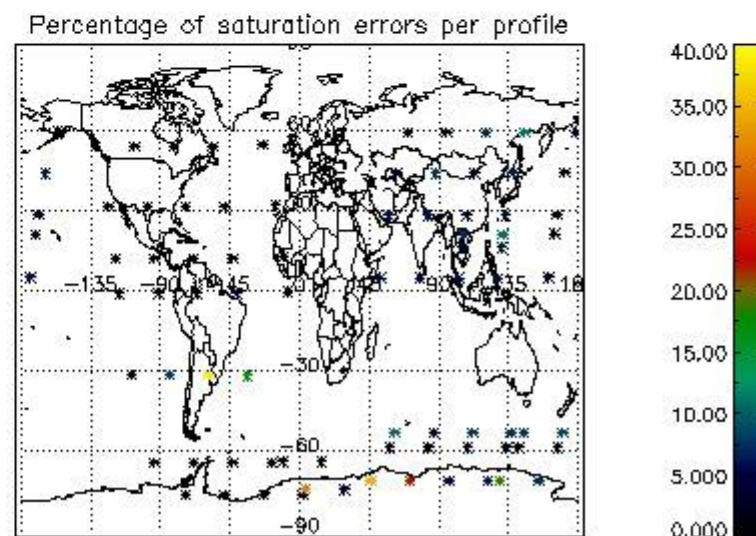
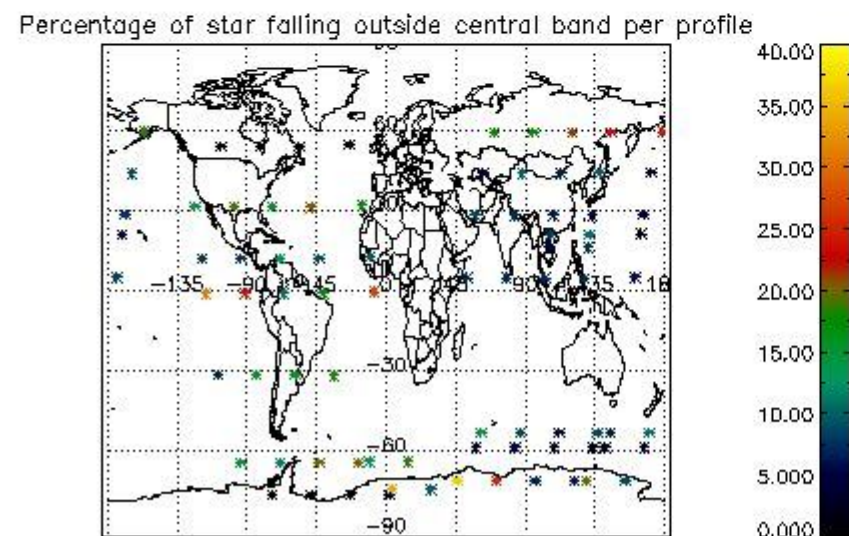
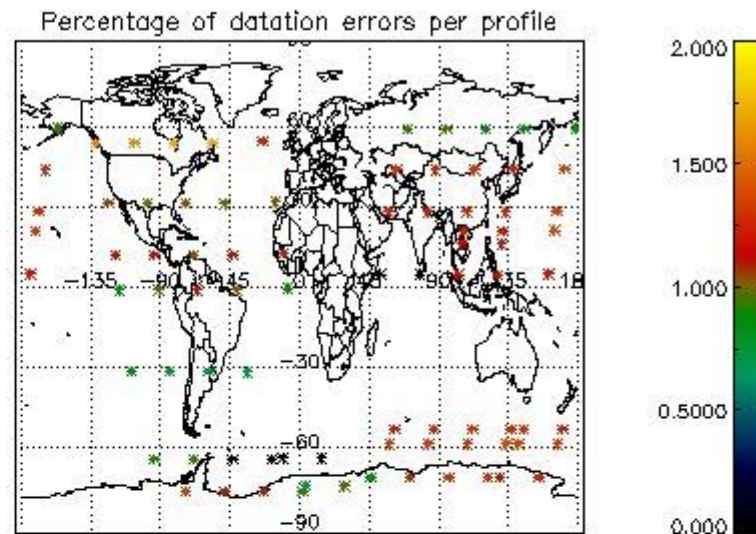
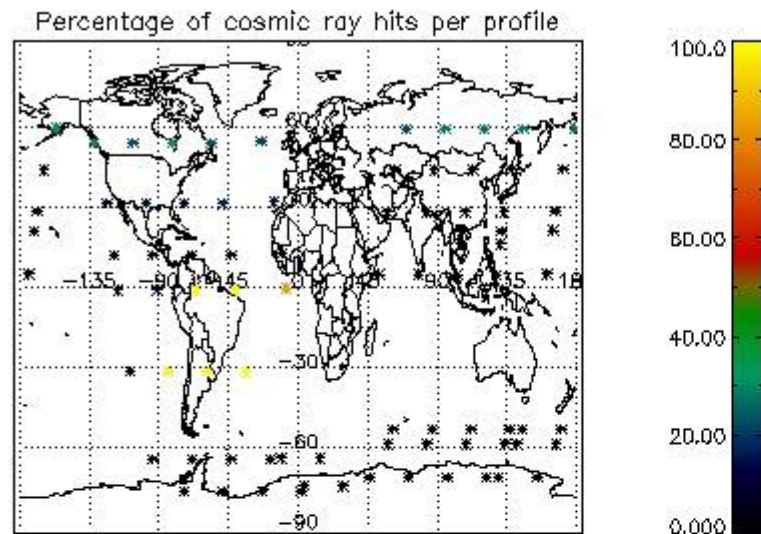
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.1429 %
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)



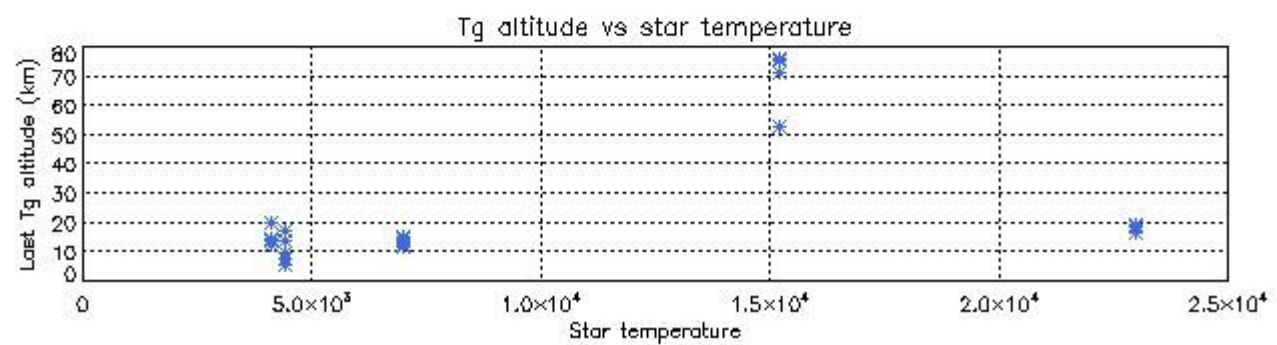
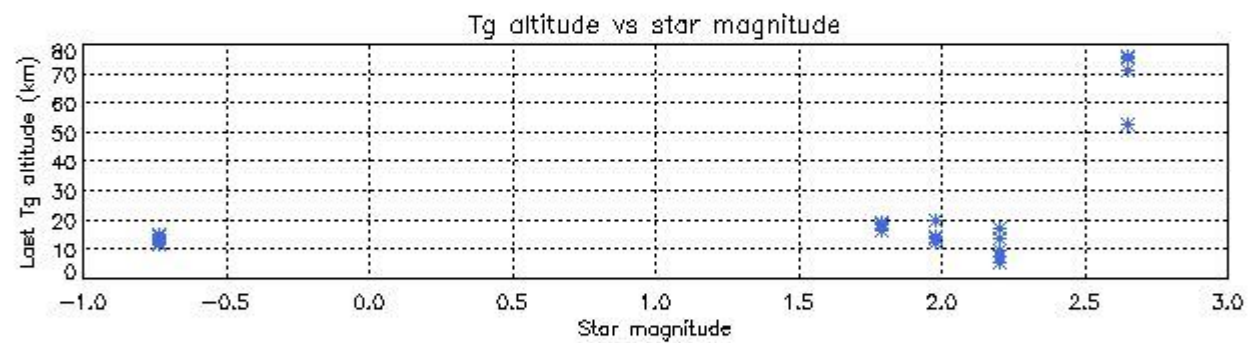
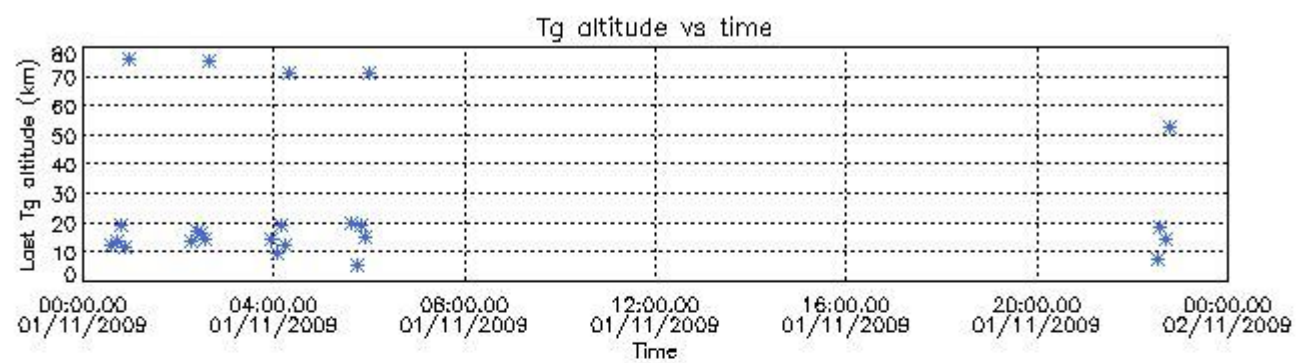
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	25.877	19.408	NaN
St. deviation:	23.428	5.5172	NaN
Maximum:	76.081	35.558	NaN
Minimum:	5.2901	4.2243	NaN
Number of data:	24.000	53.000	NaN

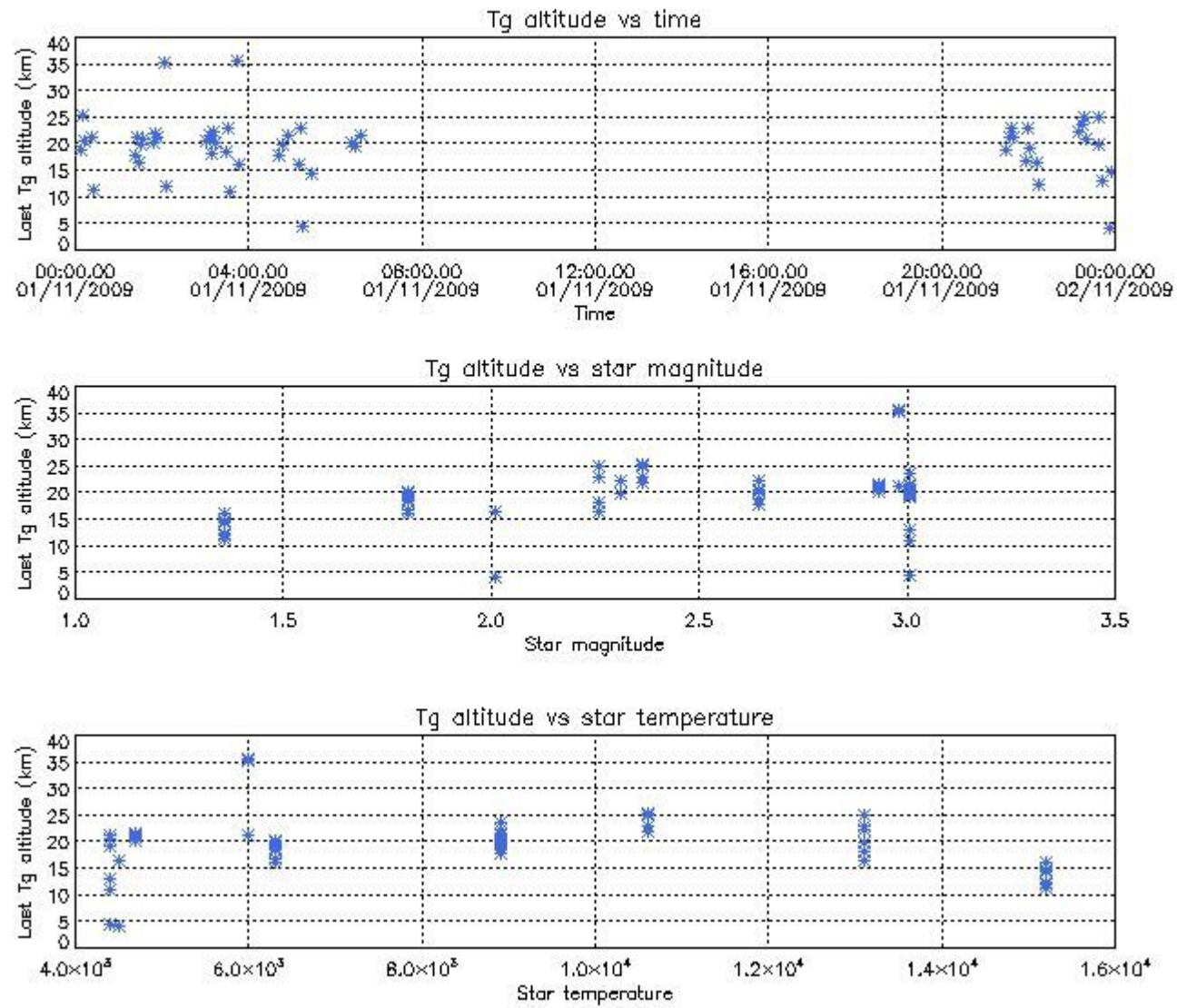
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

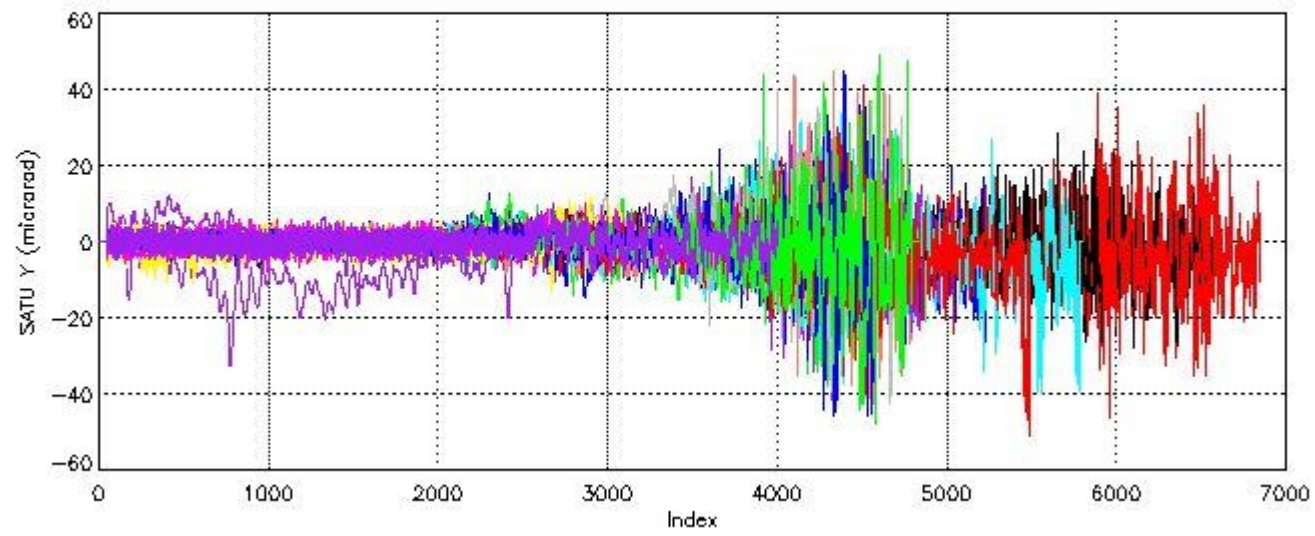
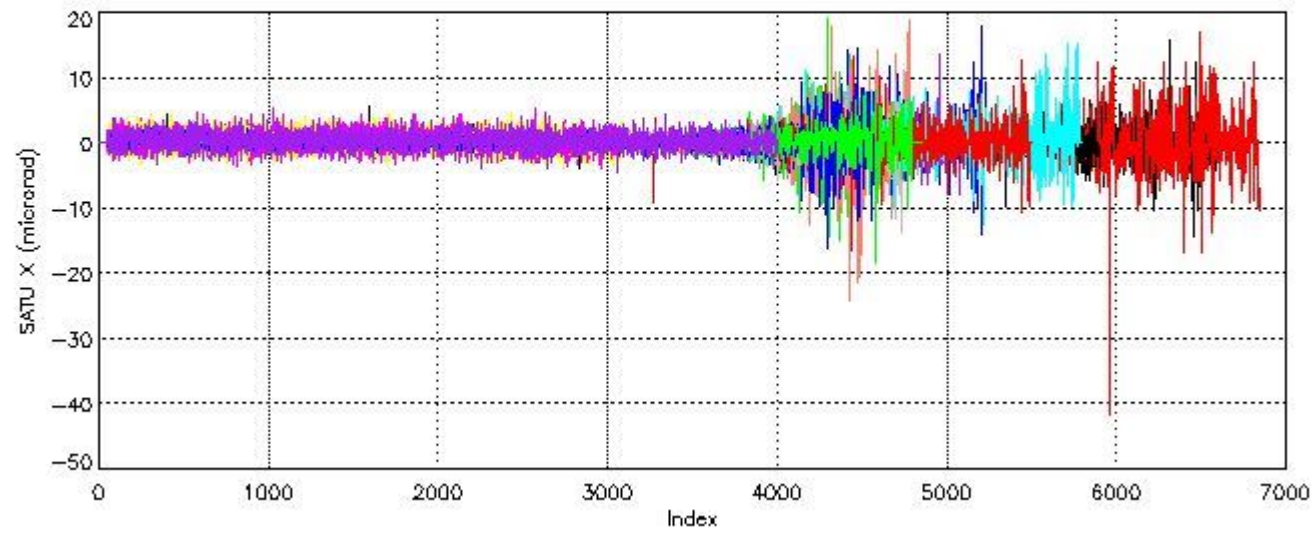


7. Star Acquisition and Tracking Unit (SATU)

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:	0.25483	-0.44135	0.17454	-0.33505
St. deviation:	0.48683	1.6219	0.84665	1.6494
Maximum:	5.4000	12.100	7.4000	9.0000
Minimum:	-3.8000	-32.800	-4.7000	-18.200

Number of data:	28400.	28400.	51750.	51750.
-----------------	--------	--------	--------	--------

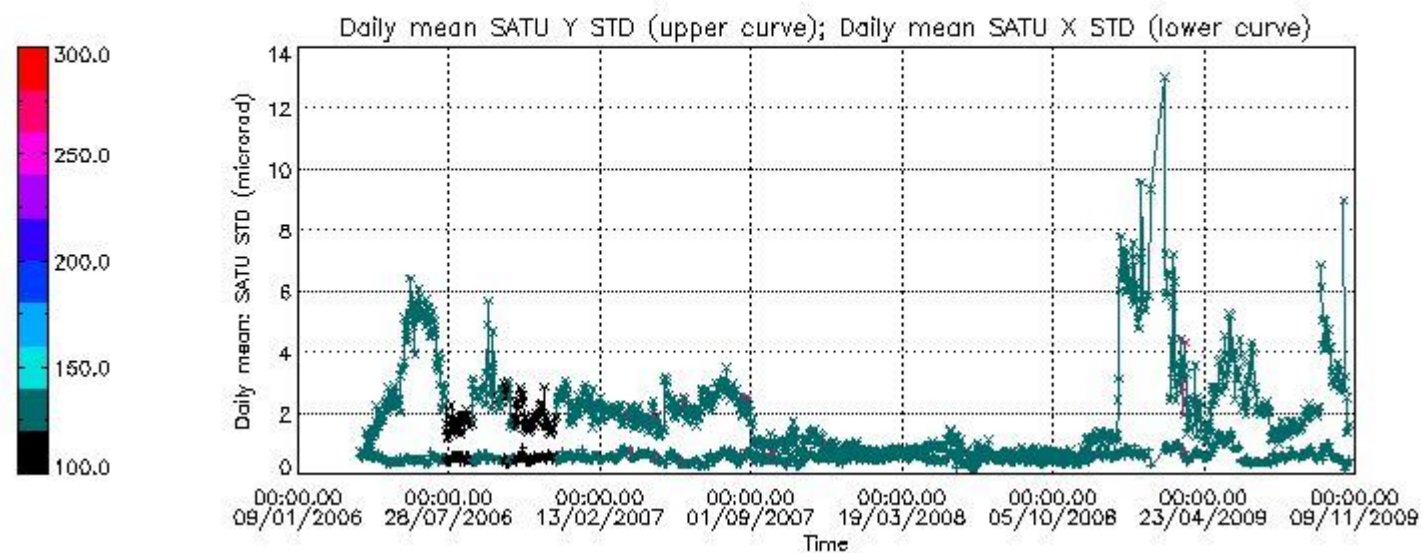
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

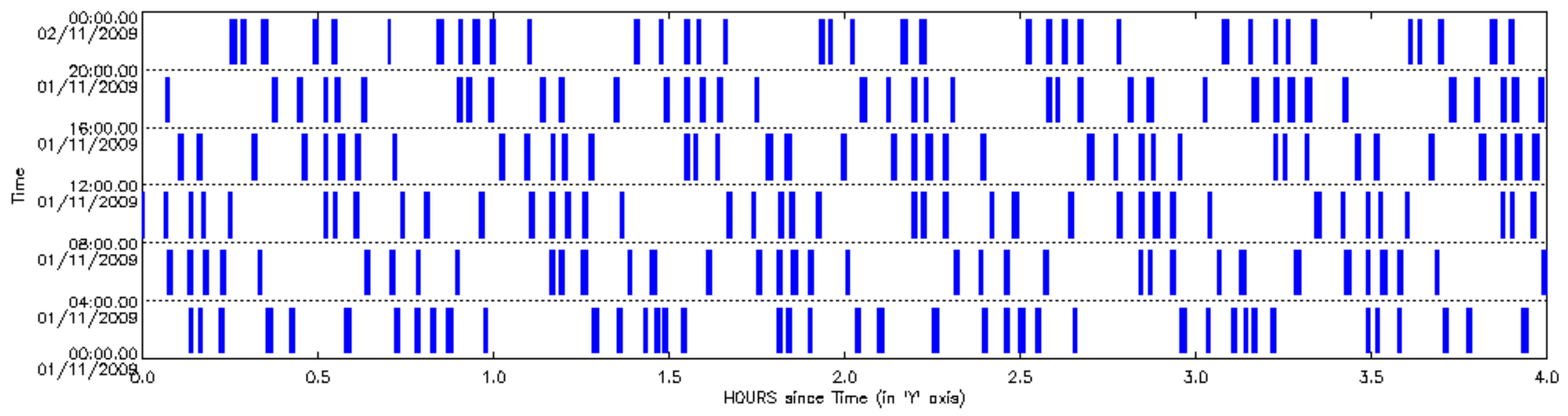
Lower curve: STD of SATU X axis

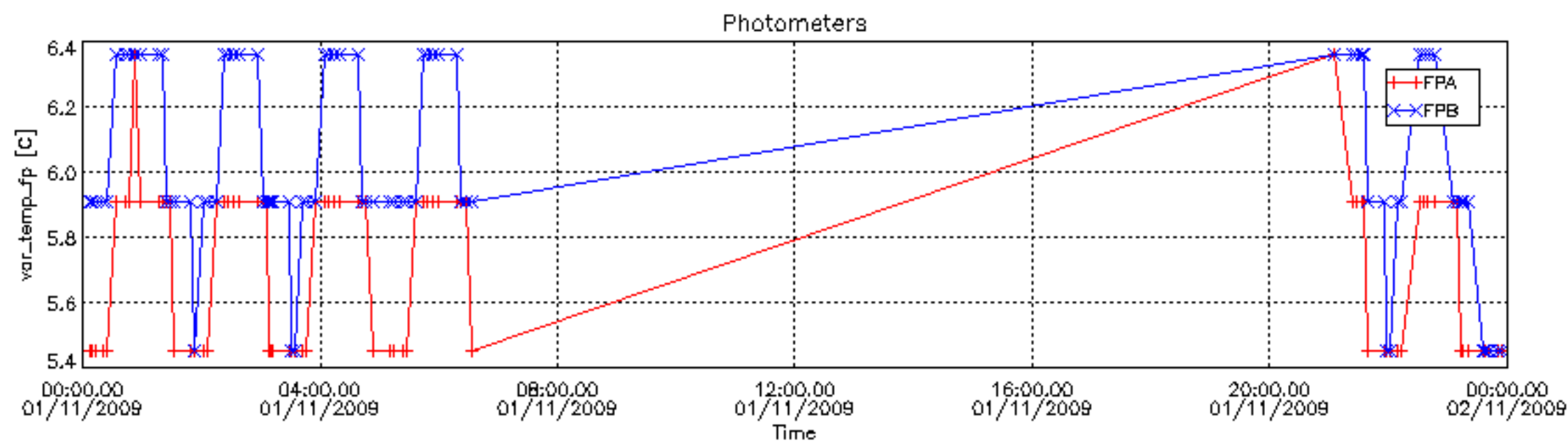
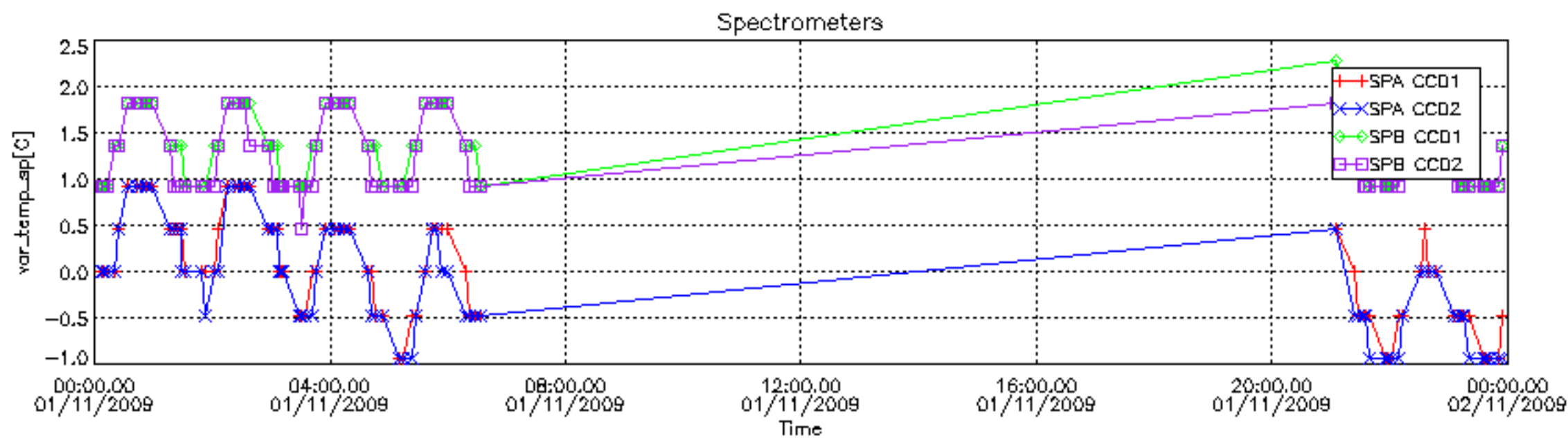


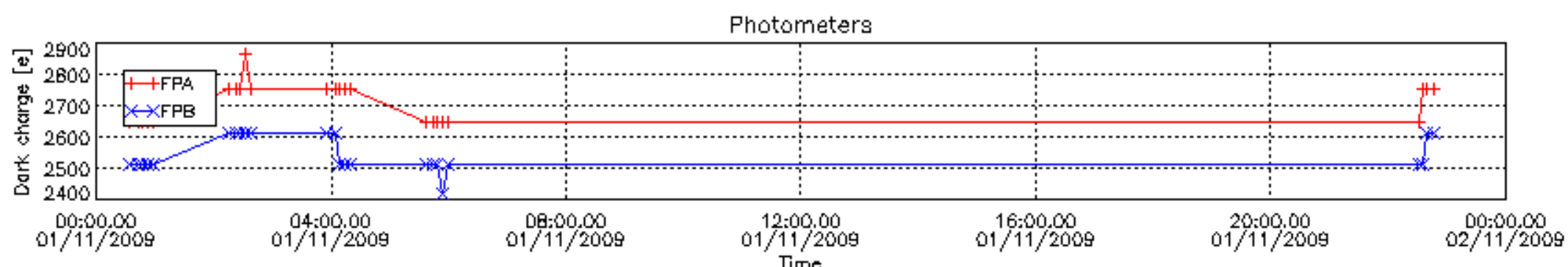
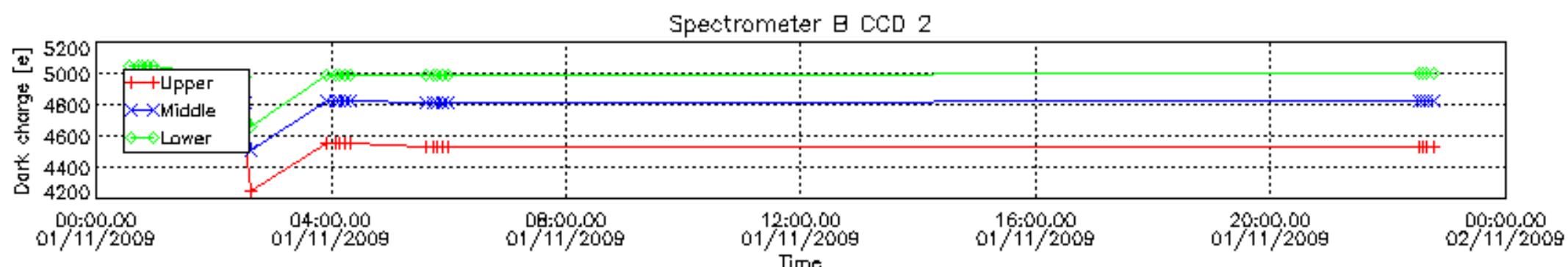
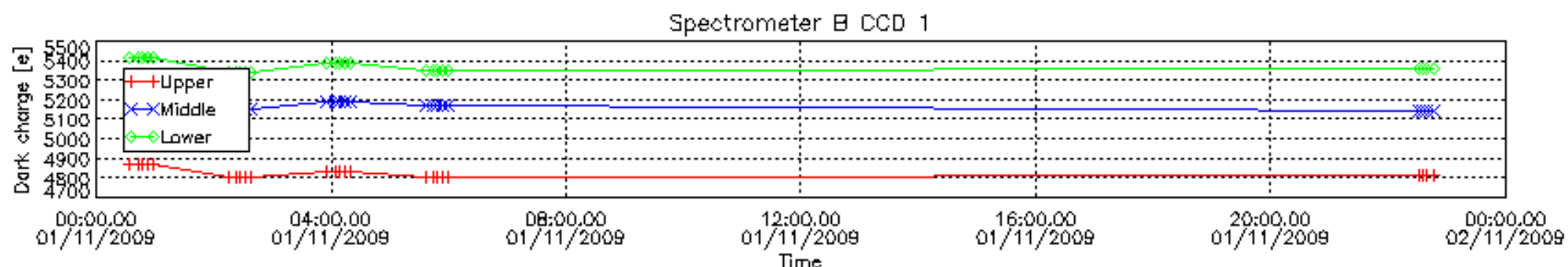
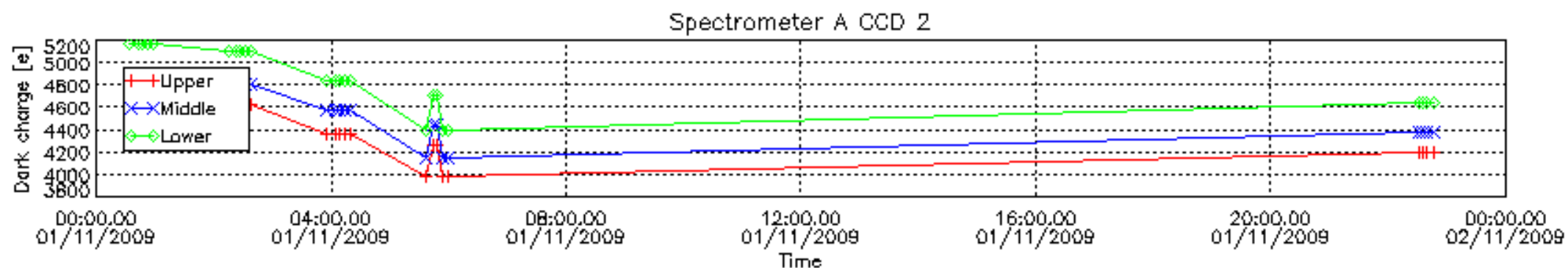
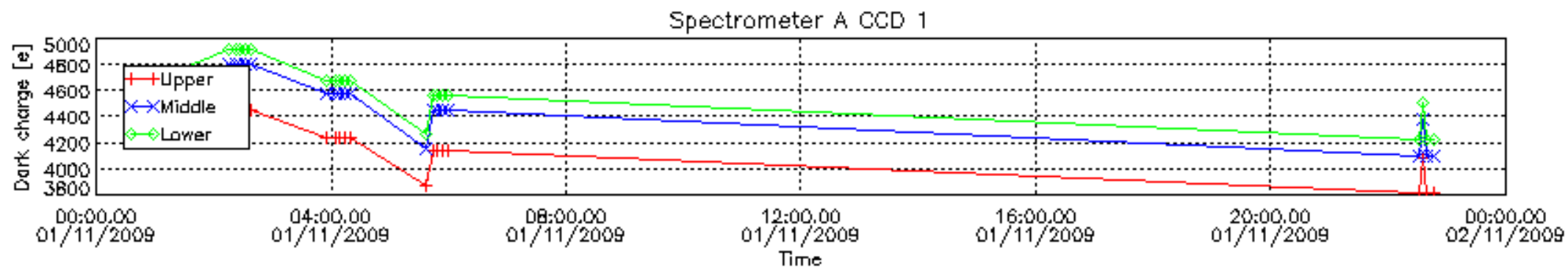
8. Auxiliary Data Files used for the production reported in section 2.4

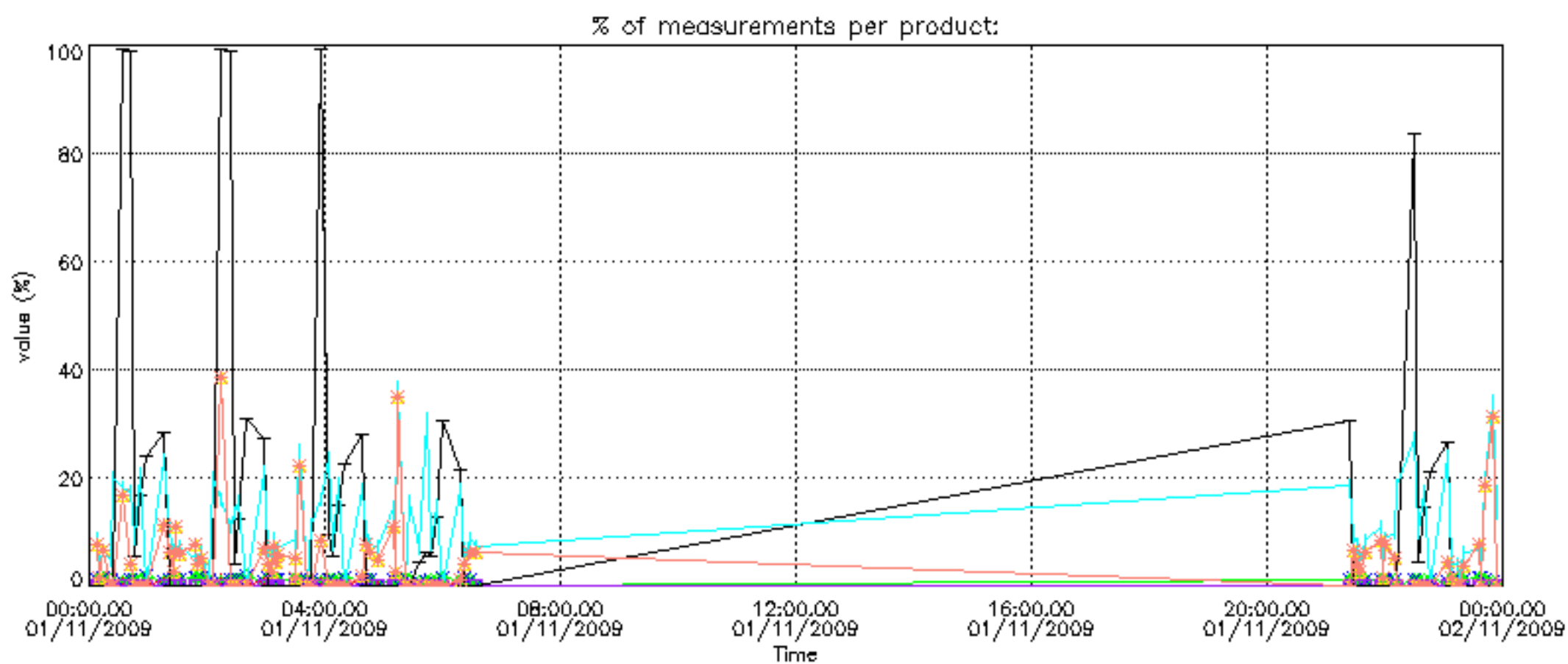
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	01-NOV-2009 00:07:51
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091029_082046_20091027_000000_20100101_000000	1	01-NOV-2009 00:07:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	01-NOV-2009 00:07:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-NOV-2009 00:07:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	01-NOV-2009 00:07:51
ECMWF_FILE	AUX_ECF_AXNECM20091031_064113_20091031_210000_20091101_090000	1	01-NOV-2009 00:07:51
ECMWF_FILE	AUX_ECF_AXNECM20091031_182111_20091101_030000_20091101_150000	33	01-NOV-2009 03:29:03
ECMWF_FILE	AUX_ECA_AXNECM20091101_062112_20091031_210000_20091101_090000	47	01-NOV-2009 05:09:39
ECMWF_FILE	AUX_ECF_AXNECM20091101_064113_20091101_210000_20091102_090000	61	01-NOV-2009 21:05:47
OPTIONAL_ECMWF_FILE	MISSING	1	01-NOV-2009 00:07:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091031_224458_000057382083_00473_40106_9077.N1	1	01-NOV-2009 00:07:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091101_002555_000057382083_00474_40107_9078.N1	6	01-NOV-2009 00:34:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091101_020652_000044632083_00475_40108_9079.N1	22	01-NOV-2009 02:14:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091101_032634_000054192083_00476_40109_9080.N1	33	01-NOV-2009 03:29:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091101_050212_000057382083_00477_40110_9081.N1	47	01-NOV-2009 05:09:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091101_210353_000038252083_00487_40120_9082.N1	61	01-NOV-2009 21:05:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091101_221258_000057382083_00487_40120_9083.N1	72	01-NOV-2009 22:30:54

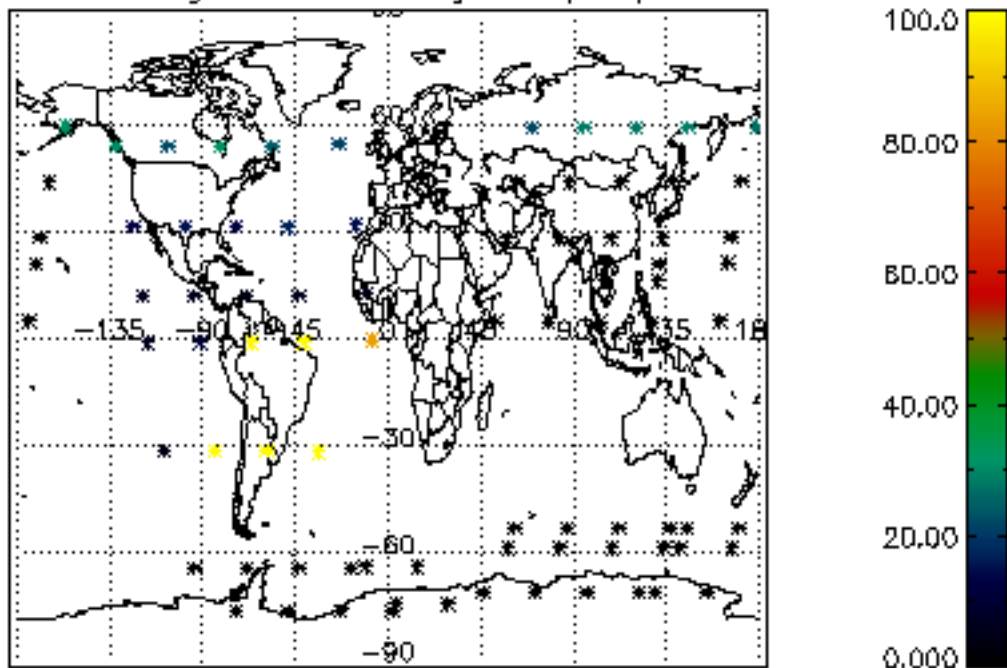




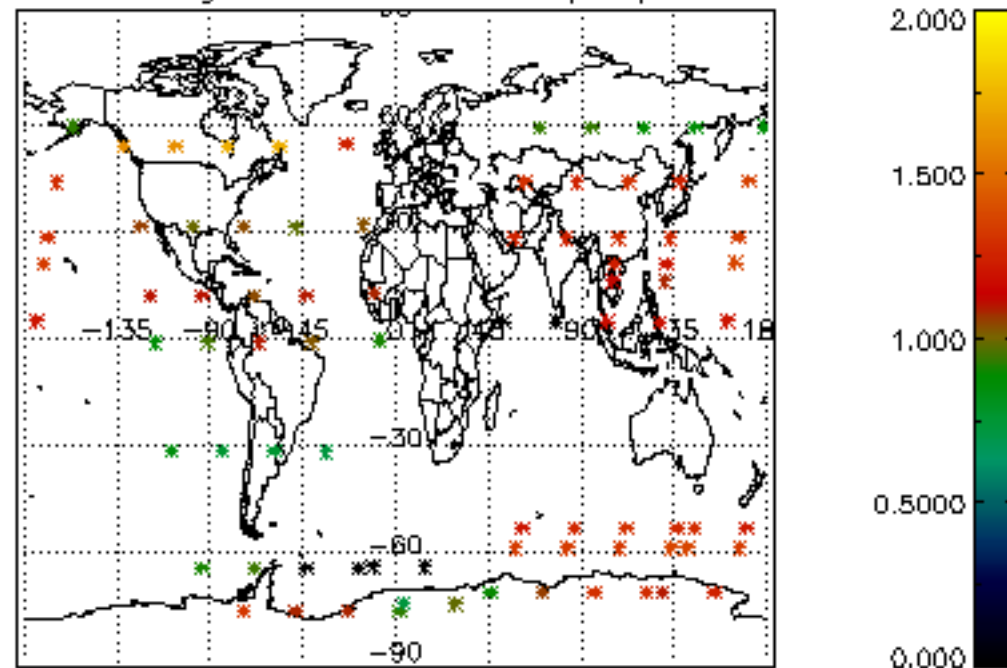




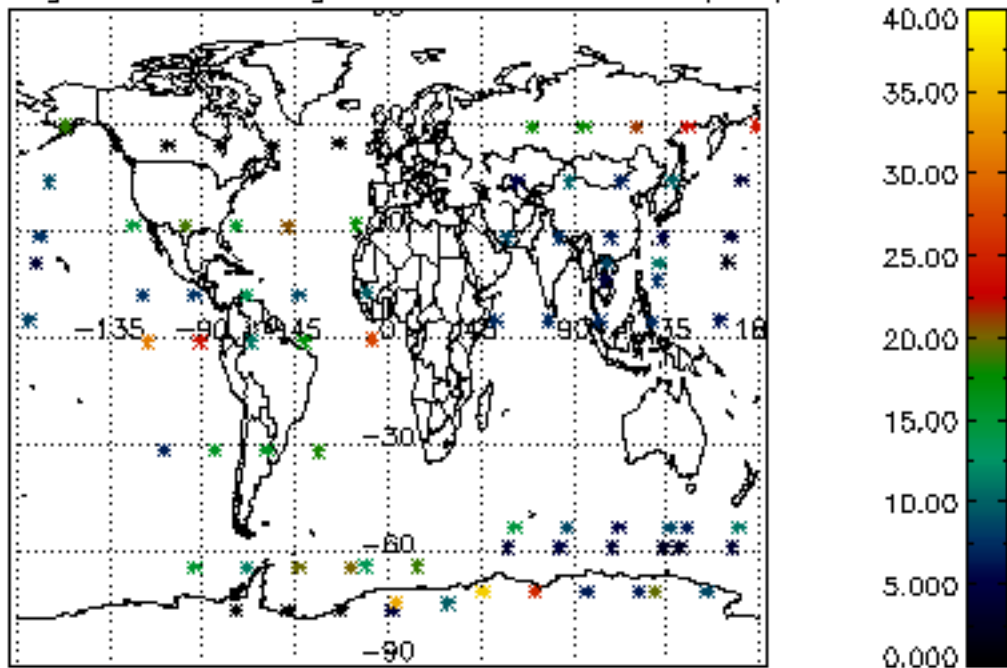
Percentage of cosmic ray hits per profile



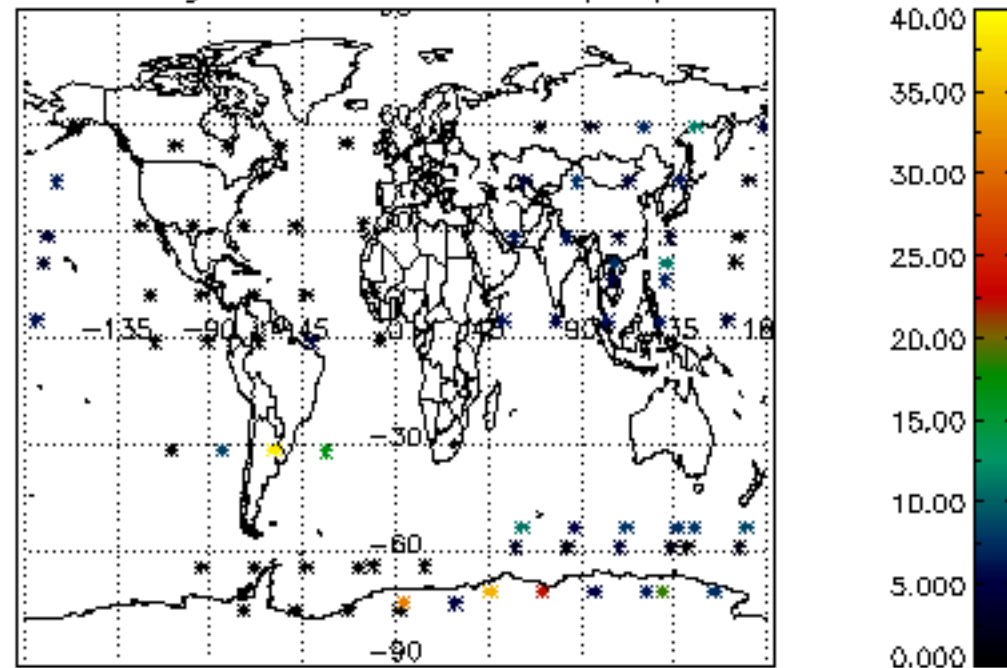
Percentage of datation errors per profile



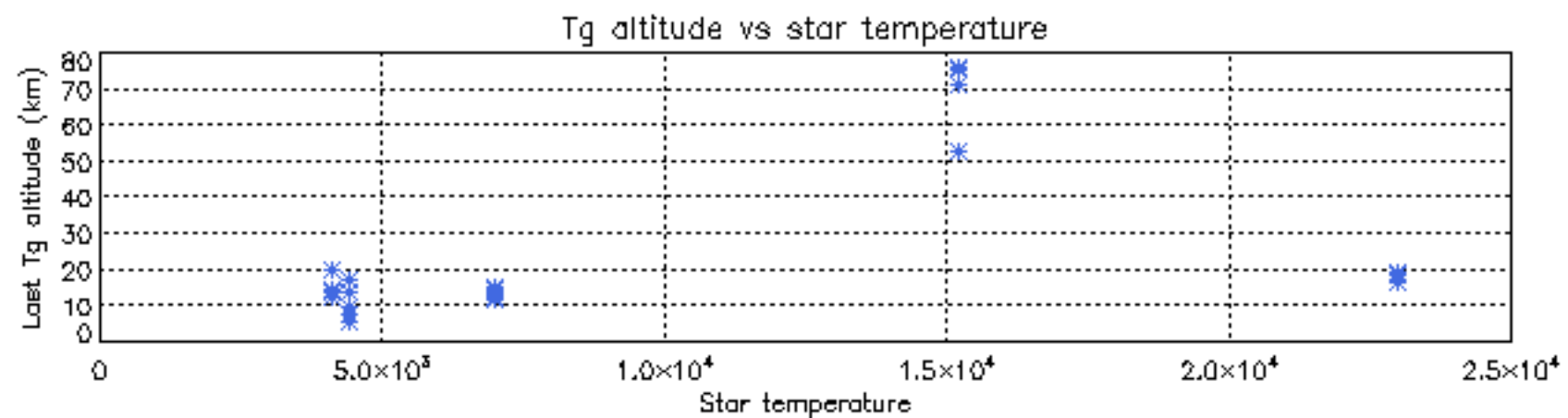
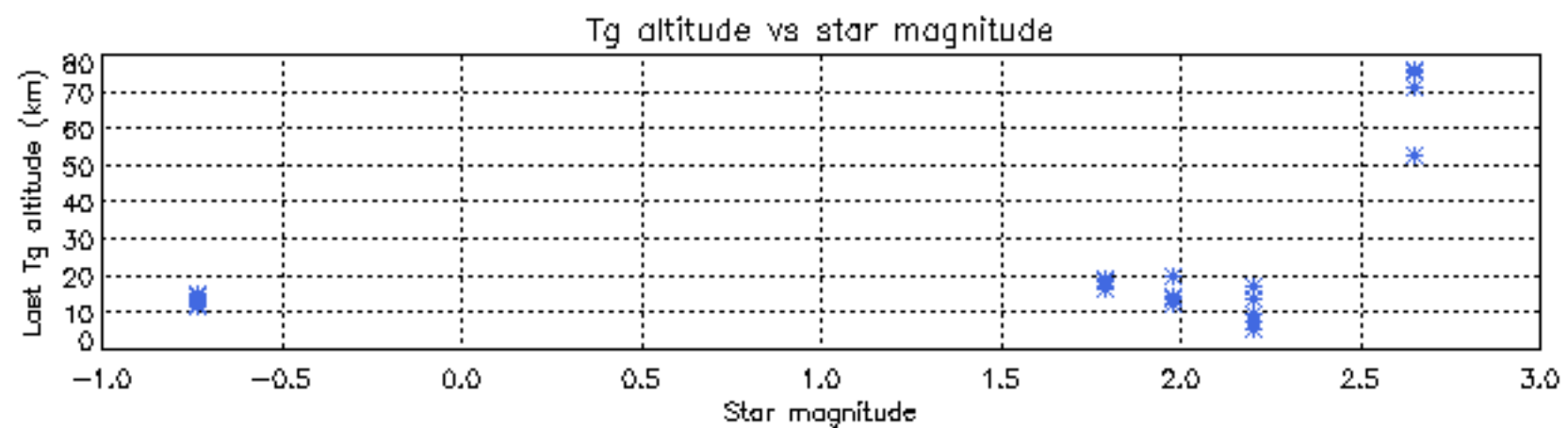
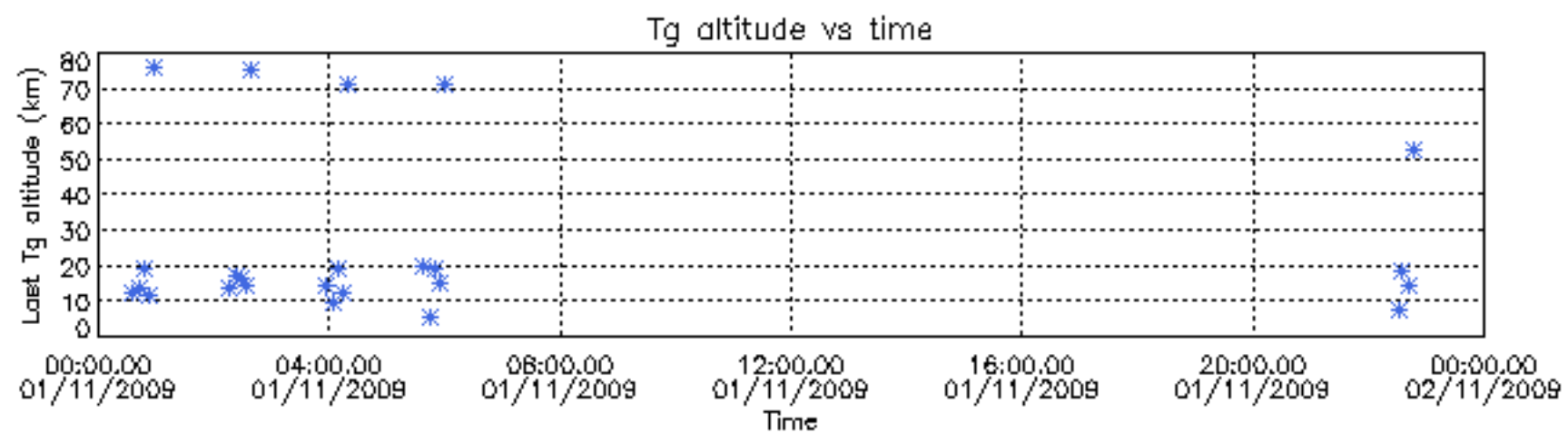
Percentage of star falling outside central band per profile



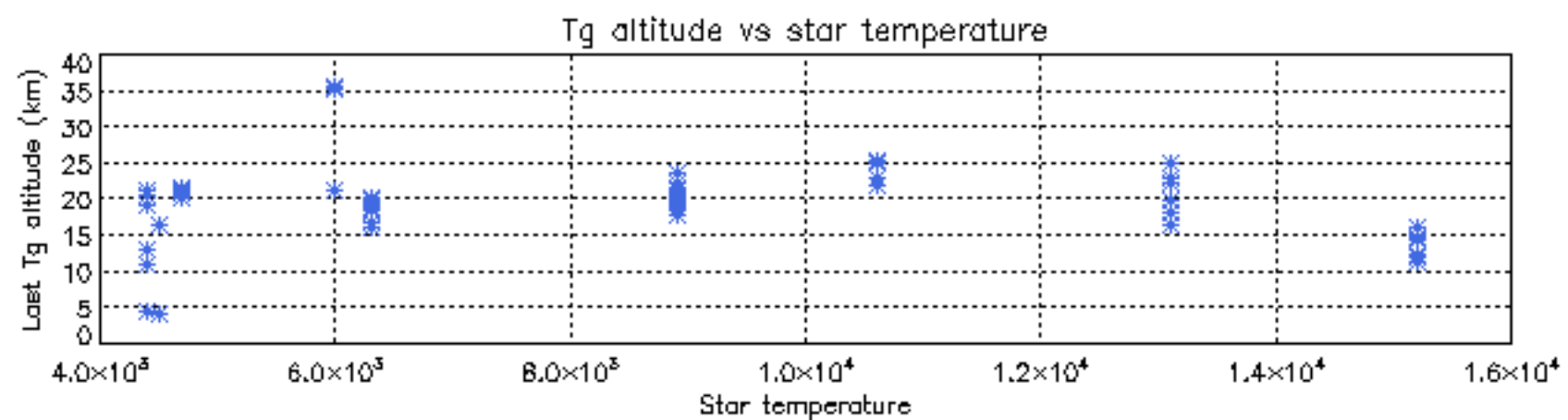
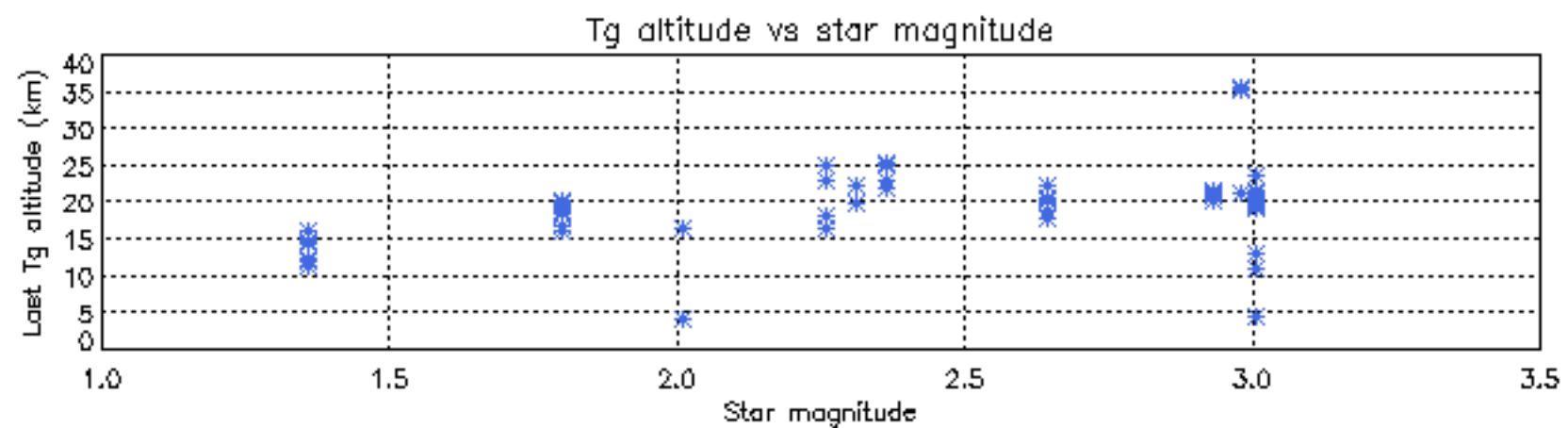
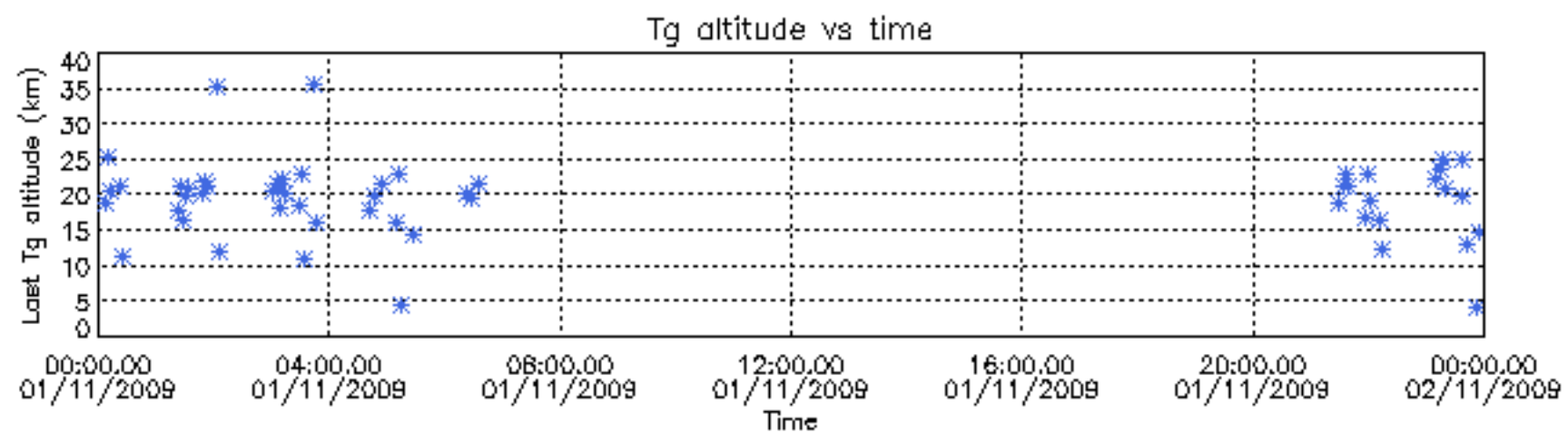
Percentage of saturation errors per profile

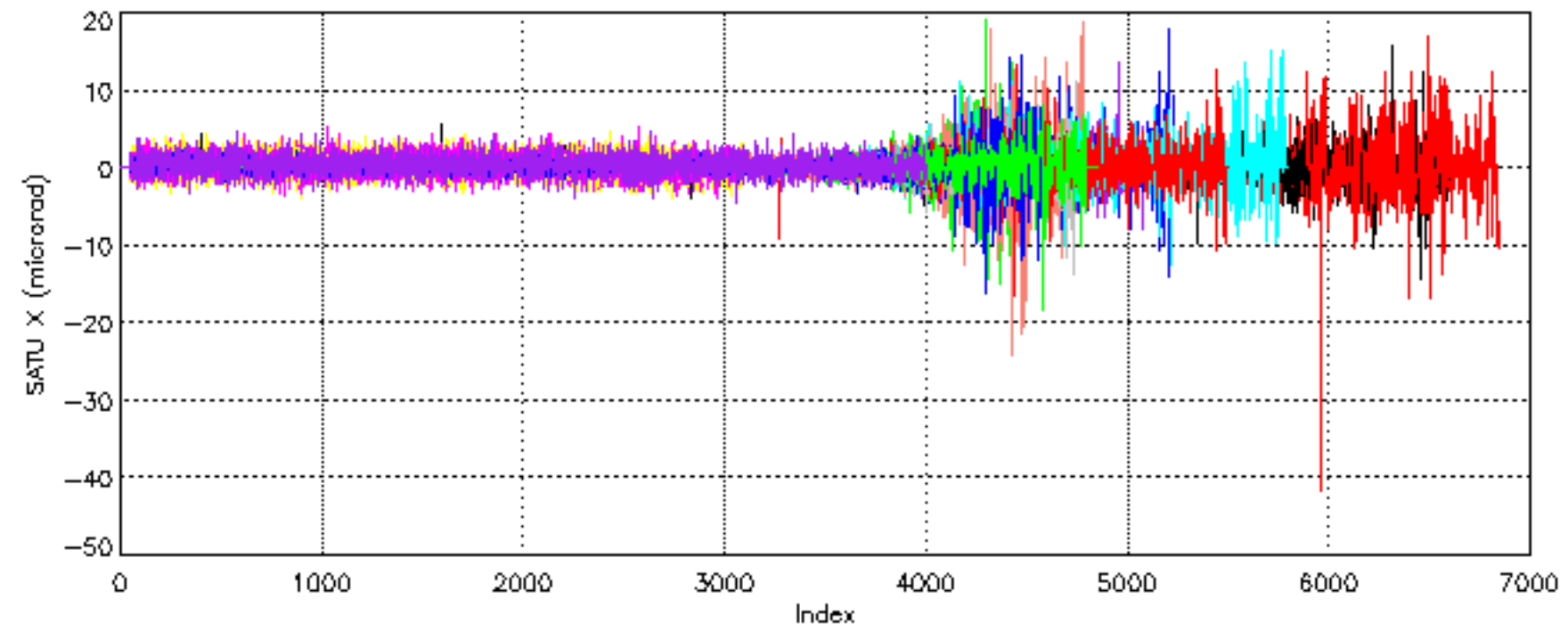


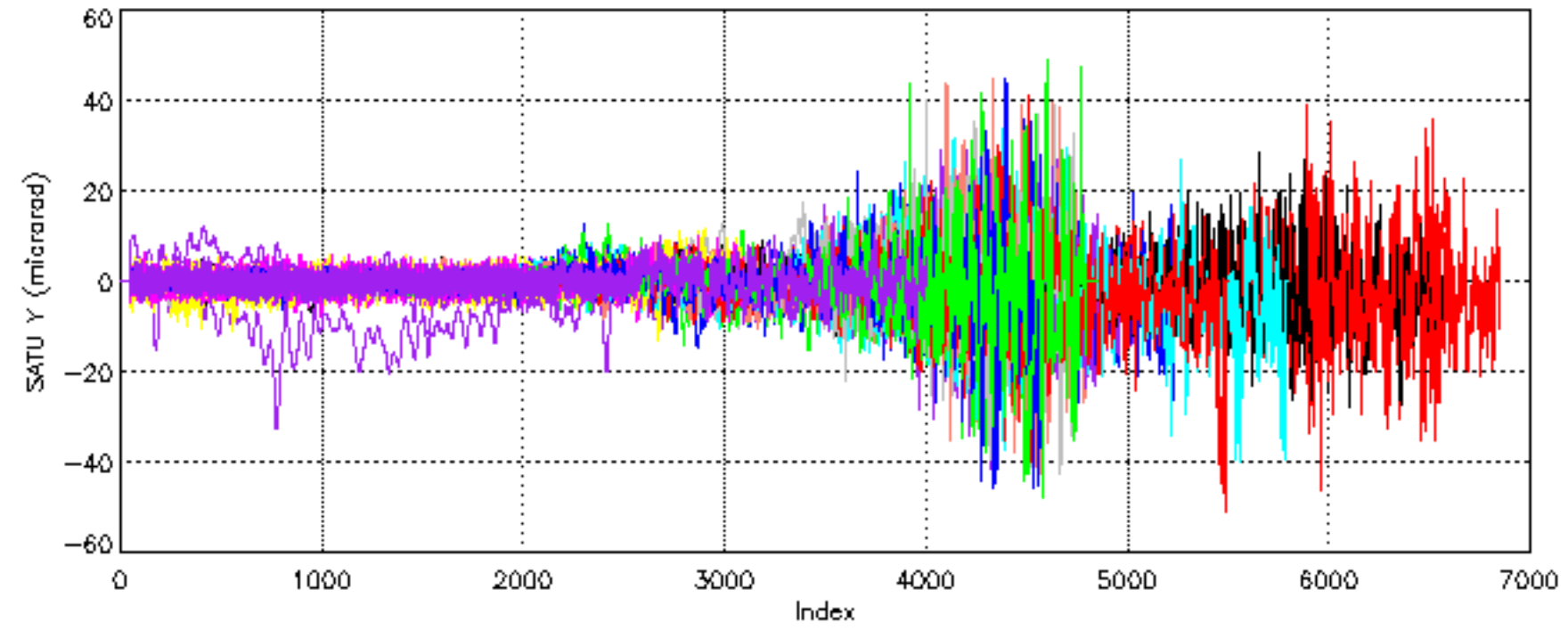
Tangent altitude at which the star is lost

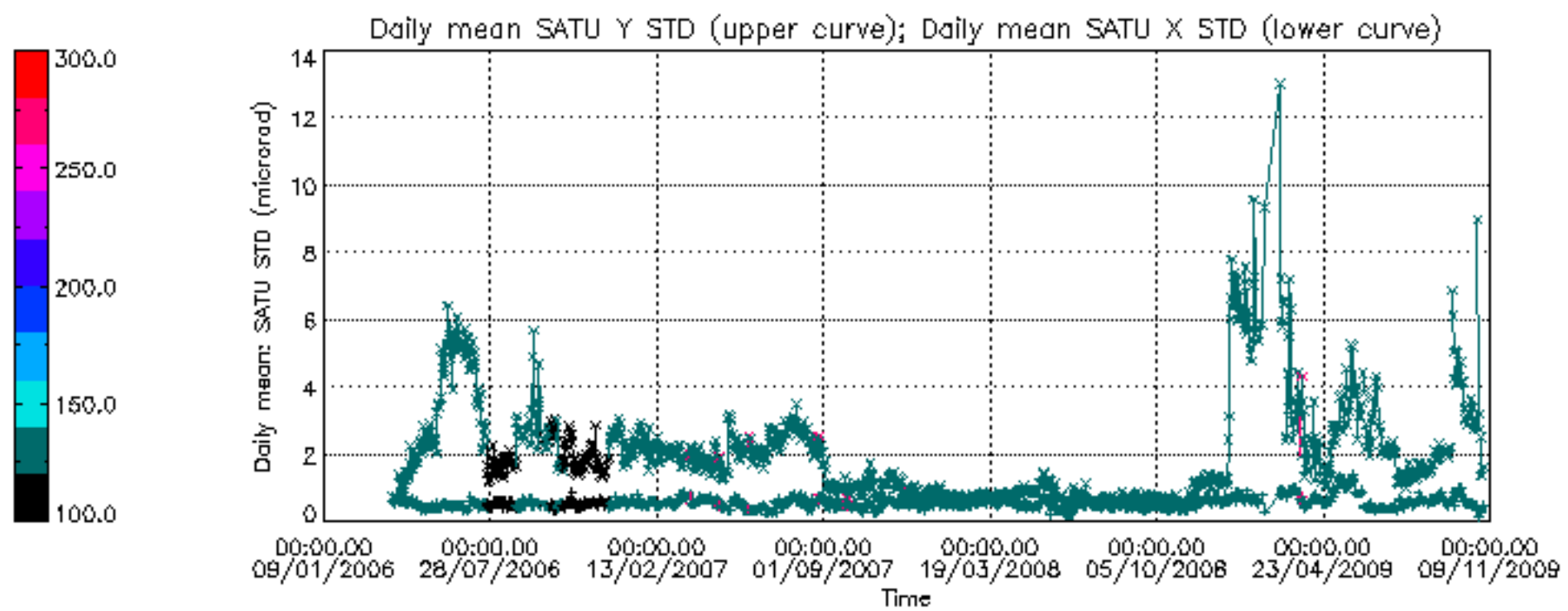


Tangent altitude at which the star is lost









```

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 1; -534.0; 01-NOV-2009 00:34:21; Dark ; 68.5; 48; 30Alp Hya ; 1.98; 4100;occ; 137; 0;40107
 2; -19.6; 01-NOV-2009 00:42:55; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;40107
 3; 197.6; 01-NOV-2009 00:46:32; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;40108
 4; 348.1; 01-NOV-2009 00:49:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40108
 5; 524.1; 01-NOV-2009 00:51:59; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;40108
 6; 908.8; 01-NOV-2009 00:58:23; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 0;40108
 7; 2010.3; 01-NOV-2009 01:16:45; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;40108
 8; 2273.3; 01-NOV-2009 01:21:08; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;40108
 9; 2538.3; 01-NOV-2009 01:25:33; Bright; 39.5; 173; 4Bet Tri ; 3.00; 8900;occ; 79; 0;40108
10; 2660.8; 01-NOV-2009 01:27:35; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;40108
11; 2742.1; 01-NOV-2009 01:28:57; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;40108
12; 2934.3; 01-NOV-2009 01:32:09; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;40108
13; 3911.9; 01-NOV-2009 01:48:27; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;40108
14; 4008.4; 01-NOV-2009 01:50:03; Bright; 38.0; 82; 48Bet UMa ; 2.37; 10600;occ; 76; 0;40108
15; 4229.5; 01-NOV-2009 01:53:44; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;40108
16; 4709.7; 01-NOV-2009 02:01:44; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;40108
17; 4938.4; 01-NOV-2009 02:05:33; Bright; 58.0; 22; 32Alp Leo ; 1.36; 15200;occ; 116; 0;40108
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 1; -532.5; 01-NOV-2009 02:14:58; Dark ; 66.0; 48; 30Alp Hya ; 1.98; 4100;occ; 132; 0;40108
 2; -18.6; 01-NOV-2009 02:23:32; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;40108
 3; 198.7; 01-NOV-2009 02:27:09; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40109
 4; 349.0; 01-NOV-2009 02:29:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40109
 5; 525.4; 01-NOV-2009 02:32:36; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;40109
 6; 910.1; 01-NOV-2009 02:39:01; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 0;40109
 7; 2010.1; 01-NOV-2009 02:57:21; Dark ; 56.5; 94; 92Alp Cet ; 2.53; 3100;occ; 113; 0;40109
 8; 2273.2; 01-NOV-2009 03:01:44; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40109
 9; 2538.6; 01-NOV-2009 03:06:09; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40109
10; 2660.6; 01-NOV-2009 03:08:11; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;40109
11; 2741.6; 01-NOV-2009 03:09:32; Bright; 44.5; 79; 26Bet Per ; 2.31; 13100;occ; 89; 0;40109
12; 2933.8; 01-NOV-2009 03:12:44; Bright; 42.5; 160; 23Gam Per ; 2.93; 4700;occ; 85; 0;40109
13; 3912.0; 01-NOV-2009 03:29:03; Bright; 16.0; 36; 50Alp UMa ; 1.80; 6300;occ; 32; 0;40109
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 5;-1096.7; 01-NOV-2009 03:46:10; Bright; 53.0; 22; 32Alp Leo ; 1.36; 15200;occ; 106; 0;40109
 6; -531.1; 01-NOV-2009 03:55:35; Dark ; 66.0; 48; 30Alp Hya ; 1.98; 4100;occ; 132; 0;40109
 7; -17.4; 01-NOV-2009 04:04:09; Dark ; 52.5; 65; Lam Vel ; 2.20; 4400;occ; 105; 0;40109
 8; 199.8; 01-NOV-2009 04:07:46; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40110
 9; 349.9; 01-NOV-2009 04:10:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40110
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13; 2273.1; 01-NOV-2009 04:42:20; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;40110
14; 2538.3; 01-NOV-2009 04:46:45; Bright; 40.0; 173; 4Bet Tri ; 3.00; 8900;occ; 80; 0;40110
15; 2933.6; 01-NOV-2009 04:53:20; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;40110
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11; 912.1; 01-NOV-2009 06:00:15; Dark ; 31.0; 108; Alp Col ; 2.65; 15200;occ; 62; 0;40111
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 10; 4229.7; 04-NOV-2009 15:24:16; Bright; 38.5; 174; 52Psi UMA ; 3.00; 4400;occ; 77; 0;40159
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 13; 6063.8; 04-NOV-2009 17:35:27; Dark ; 53.5; 65; Lam Vel ; 2.20; 4400;occ; 107; 0;40160
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4; 401.5; 05-NOV-2009 00:24:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40165
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23; 4885.3; 26-NOV-2009 22:26:12; Bright; 54.0; 62; 94Bet Leo ; 2.14; 9700;occ; 108; 0;40478
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5; 2754.0; 26-NOV-2009 08:25:53; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0;40470
6; 2896.0; 26-NOV-2009 08:28:15; Bright; 37.0; 6; 13Alp Aur ; 0.08; 3400;occ; 74; 0;40470
7; 3843.2; 26-NOV-2009 08:44:02; Bright; 49.5; 36; 50Alp UMa ; 1.80; 6300;occ; 99; 0;40470
8; 3940.7; 26-NOV-2009 08:45:40; Bright; 43.0; 82; 48Bet UMa ; 2.37; 10600;occ; 86; 0;40470
9; 4040.0; 26-NOV-2009 08:47:19; Bright; 39.5; 55; 79Zet UMA ; 2.06; 10200;occ; 79; 0;40470
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 5; 2626.7; 28-NOV-2009 12:22:19; Bright; 39.0; 149; 45Eps Per ; 2.89; 30000;occ; 78; 0;40501
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 16; 5432.9; 28-NOV-2009 13:09:05; Dark ; 46.5; 100; 4Gam Crv ; 2.58; 13100;occ; 93; 0;40501
 17; 5527.9; 28-NOV-2009 13:10:40; Dark ; 47.0; 171; 2Eps Crv ; 3.00; 4250;occ; 94; 0;40501
 18; 6096.7; 28-NOV-2009 13:20:09; Dark ; 41.5; 113; Mu Vel ; 2.69; 5000;occ; 83; 0;40501
 19; 6413.1; 28-NOV-2009 13:25:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40501
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 21; 6709.2; 28-NOV-2009 13:30:21; Dark ; 56.0; 70; Zet Pup ; 2.25; 39000;occ; 112; 0;40501
 22; 6924.3; 28-NOV-2009 13:33:56; Dark ; 65.0; 117; Pi Pup ; 2.71; 3800;occ; 130; 0;40501
 23; 7157.2; 28-NOV-2009 13:37:49; Dark ; 37.0; 23; 21Eps CMa ; 1.50; 26000;occ; 74; 0;40501
 24; 7222.5; 28-NOV-2009 13:38:55; Dark ; 54.5; 177; 1Zet CMa ; 3.02; 26000;occ; 109; 0;40501
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 3; 2245.5; 28-NOV-2009 13:56:34; Bright; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;40502
 4; 2335.0; 28-NOV-2009 13:58:03; Bright; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;40502
 5; 2479.6; 28-NOV-2009 14:00:28; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40502
 6; 2626.7; 28-NOV-2009 14:02:55; Bright; 53.0; 149; 45Eps Per ; 2.89; 30000;occ; 106; 0;40502
 7; 2745.7; 28-NOV-2009 14:04:54; Bright; 37.5; 175; 39Del Per ; 3.01; 19400;occ; 75; 0;40502
 8; 2872.4; 28-NOV-2009 14:07:00; Bright; 48.0; 6; 13Alp Aur ; 0.08; 3400;occ; 96; 0;40502
 9; 2992.7; 28-NOV-2009 14:09:01; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;40502
 10; 3832.9; 28-NOV-2009 14:23:01; Bright; 44.0; 36; 50Alp UMa ; 1.80; 6300;occ; 88; 0;40502
 11; 3930.1; 28-NOV-2009 14:24:38; Bright; 48.5; 82; 48Bet UMa ; 2.37; 10600;occ; 97; 0;40502
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 13; 4196.0; 28-NOV-2009 14:29:04; Bright; 53.0; 174; 52Psi UMa ; 3.00; 4400;occ; 106; 0;40502
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 16; 5101.3; 28-NOV-2009 14:44:09; Bright; 60.0; 121; 29Gam Vir ; 2.74; 7200;occ; 120; 0;40502
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 21; 6610.7; 28-NOV-2009 15:09:19; Dark ; 51.5; 34; Gam2Vel ; 1.79; 23000;occ; 103; 0;40502
 22; 6710.2; 28-NOV-2009 15:10:58; Dark ; 57.0; 70; Zet Pup ; 2.25; 39000;occ; 114; 0;40502
 23; 6925.4; 28-NOV-2009 15:14:33; Dark ; 58.0; 117; Pi Pup ; 2.71; 3800;occ; 116; 0;40502
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 3; 2245.1; 28-NOV-2009 15:37:09; Bright; 57.0; 13; 87Alp Tau ; 0.87; 3800;occ; 114; 0;40503
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 5; 2479.5; 28-NOV-2009 15:41:03; Bright; 40.5; 150; 44Zet Per ; 2.89; 28000;occ; 81; 0;40503
 6; 2626.2; 28-NOV-2009 15:43:30; Bright; 38.0; 149; 45Eps Per ; 2.89; 30000;occ; 76; 0;40503
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 9; 2991.6; 28-NOV-2009 15:49:36; Bright; 54.0; 42; 34Bet Aur ; 1.90; 10200;occ; 108; 0;40503
 10; 3833.1; 28-NOV-2009 16:03:37; Bright; 49.0; 36; 50Alp UMa ; 1.80; 6300;occ; 98; 0;40503
 11; 3930.0; 28-NOV-2009 16:05:14; Bright; 47.5; 82; 48Bet UMa ; 2.37; 10600;occ; 95; 0;40503
 12; 4032.9; 28-NOV-2009 16:06:57; Bright; 62.0; 87; 64Gam UMa ; 2.43; 11000;occ; 124; 0;40503
 13; 4195.7; 28-NOV-2009 16:09:40; Bright; 54.5; 174; 52Psi UMa ; 3.00; 4400;occ; 109; 0;40503
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 16; 5101.3; 28-NOV-2009 16:24:45; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;40503
 17; 5434.4; 28-NOV-2009 16:30:18; Dark ; 46.5; 100; 4Gam Crv ; 2.58; 13100;occ; 93; 0;40503
 18; 5529.3; 28-NOV-2009 16:31:53; Dark ; 48.5; 171; 2Eps Crv ; 3.00; 4250;occ; 97; 0;40503
 19; 6098.4; 28-NOV-2009 16:41:22; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40503
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 23; 6926.4; 28-NOV-2009 16:55:10; Dark ; 60.5; 117; Pi Pup ; 2.71; 3800;occ; 121; 0;40503
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 4; 1755.5; 28-NOV-2009 17:09:35; Dark ; 60.5; 7; 19Bet Ori ; 0.10; 14000;occ; 121; 0;40504

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7; 2479.1; 28-NOV-2009 17:21:39; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;40504
8; 2625.9; 28-NOV-2009 17:24:06; Bright; 39.0; 149; 45Eps Per ; 2.89; 30000;occ; 78; 0;40504
9; 2745.3; 28-NOV-2009 17:26:05; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;40504
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12; 3832.7; 28-NOV-2009 17:44:13; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;40504
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22; 6415.7; 28-NOV-2009 18:27:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40504
23; 6612.6; 28-NOV-2009 18:30:33; Dark ; 51.0; 34; Gam2Vel ; 1.79; 23000;occ; 102; 0;40504
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6; 680.8; 29-NOV-2009 01:14:40; Dark ; 55.0; 70; Zet Pup ; 2.25; 39000;occ; 110; 0;40509
7; 894.6; 29-NOV-2009 01:18:14; Dark ; 57.5; 117; Pi Pup ; 2.71; 3800;occ; 115; 0;40509
8; 1126.5; 29-NOV-2009 01:22:06; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;40509
9; 1531.7; 29-NOV-2009 01:28:51; Dark ; 55.0; 101; 11Alp Lep ; 2.58; 7000;occ; 110; 0;40509
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 10; 1752.2; 01-DEC-2009 00:29:17; Dark ; 57.0; 7; 19Bet Ori ; 0.10; 14000;occ; 114; 0;40537
 11; 1933.4; 01-DEC-2009 00:32:19; Dark ; 63.0; 30; 46Eps Ori ; 1.69; 30000;occ; 126; 0;40537
 12; 2096.9; 01-DEC-2009 00:35:02; Dark ; 62.5; 27; 24Gam Ori ; 1.64; 26000;occ; 125; 0;40537
 13; 2232.1; 01-DEC-2009 00:37:17; Bright; 52.5; 13; 87Alp Tau ; 0.87; 3800;occ; 105; 0;40537
 14; 2328.6; 01-DEC-2009 00:38:54; Bright; 41.0; 146; 25Eta Tau ; 2.87; 15200;occ; 82; 0;40537
 15; 2470.6; 01-DEC-2009 00:41:16; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;40537
 16; 2616.4; 01-DEC-2009 00:43:42; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;40537
 17; 2848.1; 01-DEC-2009 00:47:33; Bright; 52.0; 6; 13Alp Aur ; 0.08; 3400;occ; 104; 0;40537
 18; 2957.8; 01-DEC-2009 00:49:23; Bright; 51.0; 42; 34Bet Aur ; 1.90; 10200;occ; 102; 0;40537
 19; 3821.1; 01-DEC-2009 01:03:46; Bright; 50.0; 36; 50Alp UMa ; 1.80; 6300;occ; 100; 0;40537
 20; 3917.5; 01-DEC-2009 01:05:23; Bright; 45.0; 82; 48Bet UMa ; 2.37; 10600;occ; 90; 0;40537
 21; 4014.5; 01-DEC-2009 01:07:00; Bright; 41.5; 32; 77Eps UMa ; 1.76; 11000;occ; 83; 0;40537
 22; 4187.4; 01-DEC-2009 01:09:53; Bright; 50.5; 174; 52Psi UMa ; 3.00; 4400;occ; 101; 0;40537
 23; 4347.9; 01-DEC-2009 01:12:33; Bright; 40.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 80; 0;40537
 24; 4922.8; 01-DEC-2009 01:22:08; Bright; 58.5; 62; 94Bet Leo ; 2.14; 9700;occ; 117; 0;40537
 25; 5120.4; 01-DEC-2009 01:25:26; Bright; 61.5; 121; 29Gam Vir ; 2.74; 7200;occ; 123; 0;40537

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 4; 2236.0; 30-NOV-2009 07:51:22; Bright; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;40527
 5; 2330.4; 30-NOV-2009 07:52:56; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;40527
 6; 2473.2; 30-NOV-2009 07:55:19; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40527
 7; 2619.3; 30-NOV-2009 07:57:45; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;40527
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 9; 2967.6; 30-NOV-2009 08:03:34; Bright; 51.5; 42; 34Bet Aur ; 1.90; 10200;occ; 103; 0;40527
 10; 3824.7; 30-NOV-2009 08:17:51; Bright; 43.5; 36; 50Alp UMa ; 1.80; 6300;occ; 87; 0;40527
 11; 3921.6; 30-NOV-2009 08:19:28; Bright; 43.0; 82; 48Bet UMa ; 2.37; 10600;occ; 86; 0;40527
 12; 4015.5; 30-NOV-2009 08:21:02; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;40527
 13; 4190.0; 30-NOV-2009 08:23:56; Bright; 76.0; 174; 52Psi UMa ; 3.00; 4400;occ; 152; 0;40527
 14; 4347.6; 30-NOV-2009 08:26:34; Bright; 38.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 76; 0;40527
 15; 4916.2; 30-NOV-2009 08:36:02; Bright; 54.5; 62; 94Bet Leo ; 2.14; 9700;occ; 109; 0;40527

16; 5114.6; 30-NOV-2009 08:39:21; Bright; 41.5; 121; 29Gam Vir ; 2.74; 7200;occ; 83; 0;40527
 17; 5452.5; 30-NOV-2009 08:44:59; Dark ; 48.0; 100; 4Gam Crv ; 2.58; 13100;occ; 96; 0;40527
 18; 5547.9; 30-NOV-2009 08:46:34; Dark ; 49.0; 171; 2Eps Crv ; 3.00; 4250;occ; 98; 0;40527
 19; 6116.7; 30-NOV-2009 08:56:03; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40527
 20; 6435.1; 30-NOV-2009 09:01:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40527
 21; 6633.2; 30-NOV-2009 09:04:39; Dark ; 51.5; 34; Gam2Vel ; 1.79; 23000;occ; 103; 0;40527
 22; 6737.1; 30-NOV-2009 09:06:23; Dark ; 56.5; 70; Zet Pup ; 2.25; 39000;occ; 113; 0;40527
 23; 6947.3; 30-NOV-2009 09:09:53; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;40527
 24; 7176.4; 30-NOV-2009 09:13:42; Dark ; 67.5; 23; 21Eps CMA ; 1.50; 26000;occ; 135; 0;40527
 25; 7570.4; 30-NOV-2009 09:20:17; Dark ; 53.5; 101; 11Alp Lep ; 2.58; 7000;occ; 107; 0;40527

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 4; 2235.6; 30-NOV-2009 09:31:58; Bright; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;40528
 5; 2330.3; 30-NOV-2009 09:33:32; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;40528
 6; 2472.9; 30-NOV-2009 09:35:55; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;40528
 7; 2618.7; 30-NOV-2009 09:38:21; Bright; 39.0; 149; 45Eps Per ; 2.89; 30000;occ; 78; 0;40528
 8; 2854.2; 30-NOV-2009 09:42:16; Bright; 50.0; 6; 13Alp Aur ; 0.08; 3400;occ; 100; 0;40528
 9; 2966.6; 30-NOV-2009 09:44:09; Bright; 49.5; 42; 34Bet Aur ; 1.90; 10200;occ; 99; 0;40528
 10; 3824.4; 30-NOV-2009 09:58:26; Bright; 47.5; 36; 50Alp UMa ; 1.80; 6300;occ; 95; 0;40528
 11; 3920.9; 30-NOV-2009 10:00:03; Bright; 42.5; 82; 48Bet UMa ; 2.37; 10600;occ; 85; 0;40528
 12; 4015.3; 30-NOV-2009 10:01:37; Bright; 36.5; 32; 77Eps UMa ; 1.76; 11000;occ; 73; 0;40528
 13; 4190.1; 30-NOV-2009 10:04:32; Bright; 49.5; 174; 52Psi UMa ; 3.00; 4400;occ; 99; 0;40528
 14; 4347.7; 30-NOV-2009 10:07:10; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;40528
 15; 4916.8; 30-NOV-2009 10:16:39; Bright; 57.5; 62; 94Bet Leo ; 2.14; 9700;occ; 115; 0;40528
 16; 5115.3; 30-NOV-2009 10:19:57; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;40528
 17; 5453.4; 30-NOV-2009 10:25:35; Dark ; 46.0; 100; 4Gam Crv ; 2.58; 13100;occ; 92; 0;40528
 18; 5548.9; 30-NOV-2009 10:27:11; Dark ; 49.0; 171; 2Eps Crv ; 3.00; 4250;occ; 98; 0;40528
 19; 6117.4; 30-NOV-2009 10:36:39; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40528
 20; 6435.9; 30-NOV-2009 10:41:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40528
 21; 6634.1; 30-NOV-2009 10:45:16; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;40528
 22; 6738.1; 30-NOV-2009 10:47:00; Dark ; 55.5; 70; Zet Pup ; 2.25; 39000;occ; 111; 0;40528
 23; 6947.9; 30-NOV-2009 10:50:30; Dark ; 67.0; 117; Pi Pup ; 2.71; 3800;occ; 134; 0;40528
 24; 7177.3; 30-NOV-2009 10:54:19; Dark ; 68.5; 23; 21Eps CMA ; 1.50; 26000;occ; 137; 0;40528
 25; 7570.4; 30-NOV-2009 11:00:52; Dark ; 54.0; 101; 11Alp Lep ; 2.58; 7000;occ; 108; 0;40528

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 3; 1936.7; 30-NOV-2009 11:07:35; Dark ; 38.0; 30; 46Eps Ori ; 1.69; 30000;occ; 76; 0;40529
 4; 2101.0; 30-NOV-2009 11:10:19; Dark ; 64.0; 27; 24Gam Ori ; 1.64; 26000;occ; 128; 0;40529
 5; 2235.1; 30-NOV-2009 11:12:33; Bright; 54.5; 13; 87Alp Tau ; 0.87; 3800;occ; 109; 0;40529
 6; 2330.0; 30-NOV-2009 11:14:08; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;40529
 7; 2472.6; 30-NOV-2009 11:16:30; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40529
 8; 2618.7; 30-NOV-2009 11:18:57; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;40529
 9; 2853.5; 30-NOV-2009 11:22:51; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;40529
 10; 2965.7; 30-NOV-2009 11:24:44; Bright; 52.5; 42; 34Bet Aur ; 1.90; 10200;occ; 105; 0;40529
 11; 3824.1; 30-NOV-2009 11:39:02; Bright; 46.5; 36; 50Alp UMa ; 1.80; 6300;occ; 93; 0;40529
 12; 3920.6; 30-NOV-2009 11:40:38; Bright; 41.5; 82; 48Bet UMa ; 2.37; 10600;occ; 83; 0;40529
 13; 4015.3; 30-NOV-2009 11:42:13; Bright; 36.5; 32; 77Eps UMa ; 1.76; 11000;occ; 73; 0;40529
 14; 4189.5; 30-NOV-2009 11:45:07; Bright; 52.5; 174; 52Psi UMa ; 3.00; 4400;occ; 105; 0;40529
 15; 4347.5; 30-NOV-2009 11:47:45; Bright; 45.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 90; 0;40529
 16; 4917.3; 30-NOV-2009 11:57:15; Bright; 79.0; 62; 94Bet Leo ; 2.14; 9700;occ; 158; 0;40529
 17; 5115.9; 30-NOV-2009 12:00:34; Bright; 43.5; 121; 29Gam Vir ; 2.74; 7200;occ; 87; 0;40529
 18; 5454.0; 30-NOV-2009 12:06:12; Dark ; 46.5; 100; 4Gam Crv ; 2.58; 13100;occ; 93; 0;40529
 19; 5549.6; 30-NOV-2009 12:07:47; Dark ; 51.0; 171; 2Eps Crv ; 3.00; 4250;occ; 102; 0;40529
 20; 6118.0; 30-NOV-2009 12:17:16; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;40529
 21; 6436.7; 30-NOV-2009 12:22:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40529
 22; 6634.7; 30-NOV-2009 12:25:53; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40529
 23; 6739.0; 30-NOV-2009 12:27:37; Dark ; 56.0; 70; Zet Pup ; 2.25; 39000;occ; 112; 0;40529
 24; 6948.8; 30-NOV-2009 12:31:07; Dark ; 64.5; 117; Pi Pup ; 2.71; 3800;occ; 129; 0;40529
 25; 7178.0; 30-NOV-2009 12:34:56; Dark ; 67.0; 23; 21Eps CMA ; 1.50; 26000;occ; 134; 0;40529
 26; 7570.7; 30-NOV-2009 12:41:28; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;40529

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 2; 1753.0; 30-NOV-2009 12:45:07; Dark ; 58.5; 7; 19Bet Ori ; 0.10; 14000;occ; 117; 0;40530
 3; 1936.4; 30-NOV-2009 12:48:10; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;40530
 4; 2100.6; 30-NOV-2009 12:50:54; Dark ; 64.0; 27; 24Gam Ori ; 1.64; 26000;occ; 128; 0;40530

5; 2234.8; 30-NOV-2009 12:53:08; Bright; 60.5; 13; 87Alp Tau ; 0.87; 3800;occ; 121; 0;40530
6; 2329.9; 30-NOV-2009 12:54:44; Bright; 38.5; 146; 25Eta Tau ; 2.87; 15200;occ; 77; 0;40530
7; 2472.5; 30-NOV-2009 12:57:06; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40530
8; 2618.5; 30-NOV-2009 12:59:32; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;40530
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11; 3823.6; 30-NOV-2009 13:19:37; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;40530
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13; 4015.4; 30-NOV-2009 13:22:49; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;40530
14; 4189.4; 30-NOV-2009 13:25:43; Bright; 65.0; 174; 52Psi UMa ; 3.00; 4400;occ; 130; 0;40530
15; 4347.9; 30-NOV-2009 13:28:22; Bright; 40.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 80; 0;40530
16; 4918.0; 30-NOV-2009 13:37:52; Bright; 59.0; 62; 94Bet Leo ; 2.14; 9700;occ; 118; 0;40530
17; 5116.6; 30-NOV-2009 13:41:10; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;40530
18; 5454.9; 30-NOV-2009 13:46:49; Dark ; 47.0; 100; 4Gam Crv ; 2.58; 13100;occ; 94; 0;40530
19; 5550.3; 30-NOV-2009 13:48:24; Dark ; 50.5; 171; 2Eps Crv ; 3.00; 4250;occ; 101; 0;40530
20; 6118.8; 30-NOV-2009 13:57:53; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40530
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22; 6635.8; 30-NOV-2009 14:06:29; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40530
23; 6740.1; 30-NOV-2009 14:08:14; Dark ; 58.5; 70; Zet Pup ; 2.25; 39000;occ; 117; 0;40530
24; 6949.9; 30-NOV-2009 14:11:44; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;40530
25; 7178.8; 30-NOV-2009 14:15:32; Dark ; 68.5; 23; 21Eps CMa ; 1.50; 26000;occ; 137; 0;40530
26; 7570.8; 30-NOV-2009 14:22:04; Dark ; 6.5; 101; 11Alp Lep ; 2.58; 7000;occ; 13; 0;40530

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3; 1935.8; 30-NOV-2009 14:28:45; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;40531
4; 2100.0; 30-NOV-2009 14:31:30; Dark ; 63.0; 27; 24Gam Ori ; 1.64; 26000;occ; 126; 0;40531
5; 2234.4; 30-NOV-2009 14:33:44; Bright; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;40531
6; 2329.7; 30-NOV-2009 14:35:19; Bright; 38.0; 146; 25Eta Tau ; 2.87; 15200;occ; 76; 0;40531
7; 2472.3; 30-NOV-2009 14:37:42; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;40531
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9; 2852.3; 30-NOV-2009 14:44:02; Bright; 49.0; 6; 13Alp Aur ; 0.08; 3400;occ; 98; 0;40531
10; 2963.8; 30-NOV-2009 14:45:53; Bright; 50.5; 42; 34Bet Aur ; 1.90; 10200;occ; 101; 0;40531
11; 3823.3; 30-NOV-2009 15:00:13; Bright; 49.5; 36; 50Alp UMa ; 1.80; 6300;occ; 99; 0;40531
12; 3920.2; 30-NOV-2009 15:01:50; Bright; 50.0; 82; 48Bet UMa ; 2.37; 10600;occ; 100; 0;40531
13; 4015.2; 30-NOV-2009 15:03:25; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;40531
14; 4189.2; 30-NOV-2009 15:06:19; Bright; 53.5; 174; 52Psi UMa ; 3.00; 4400;occ; 107; 0;40531
15; 4347.9; 30-NOV-2009 15:08:57; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;40531
16; 4918.8; 30-NOV-2009 15:18:28; Bright; 59.0; 62; 94Bet Leo ; 2.14; 9700;occ; 118; 0;40531
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18; 5455.9; 30-NOV-2009 15:27:25; Dark ; 47.5; 100; 4Gam Crv ; 2.58; 13100;occ; 95; 0;40531
19; 5551.1; 30-NOV-2009 15:29:01; Dark ; 49.5; 171; 2Eps Crv ; 3.00; 4250;occ; 99; 0;40531
20; 6119.7; 30-NOV-2009 15:38:29; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;40531
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22; 6636.8; 30-NOV-2009 15:47:06; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;40531
23; 6741.3; 30-NOV-2009 15:48:51; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;40531
24; 6950.6; 30-NOV-2009 15:52:20; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;40531
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3; 1935.5; 30-NOV-2009 16:09:21; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;40532
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5; 2234.1; 30-NOV-2009 16:14:20; Bright; 52.5; 13; 87Alp Tau ; 0.87; 3800;occ; 105; 0;40532
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7; 2471.8; 30-NOV-2009 16:18:17; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;40532
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9; 2851.6; 30-NOV-2009 16:24:37; Bright; 47.0; 6; 13Alp Aur ; 0.08; 3400;occ; 94; 0;40532
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11; 3823.3; 30-NOV-2009 16:40:49; Bright; 46.0; 36; 50Alp UMa ; 1.80; 6300;occ; 92; 0;40532
12; 3919.6; 30-NOV-2009 16:42:25; Bright; 46.5; 82; 48Bet UMa ; 2.37; 10600;occ; 93; 0;40532
13; 4015.2; 30-NOV-2009 16:44:01; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;40532
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