

GOMOS Daily Report 12-OCT-2010

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	15OCT2010 04:46:38
Data source version	GOMOS/5.01
Start time of products	12OCT2010 00:03:28
Stop time of products	12OCT2010 23:45:24
Store outputs in DB	Yes
Nb of level 1b prods	80
Nb of prods with errors	1

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

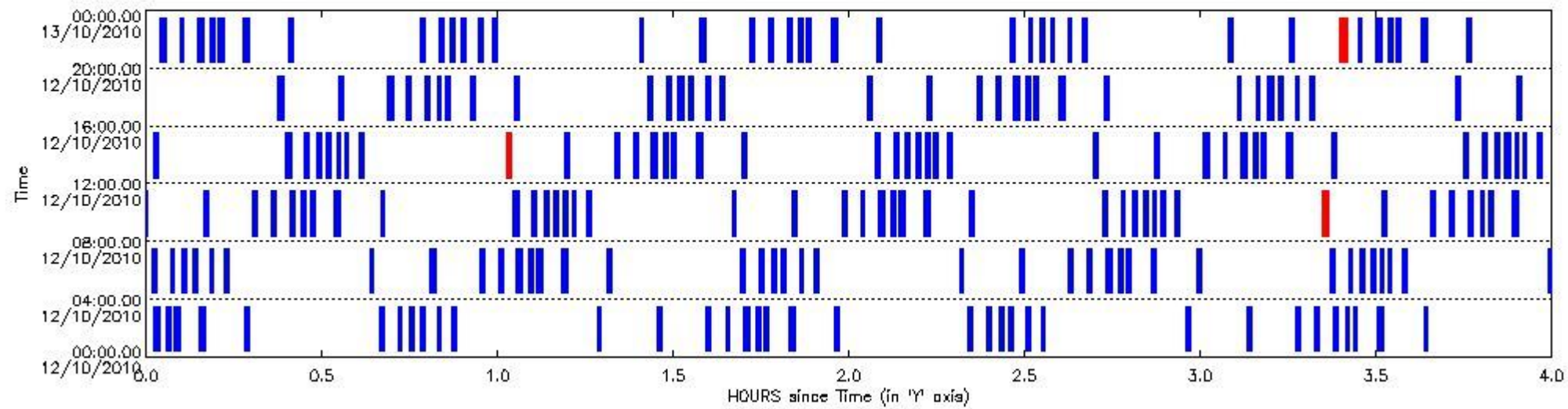
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

UTC start time	Star name	Star ID	Orbit
12-OCT-2010 11:20:50	17EpsLeo	166	45052
12-OCT-2010 13:01:26	17EpsLeo	166	45053
12-OCT-2010 23:23:53	15RhoPup	132	45059

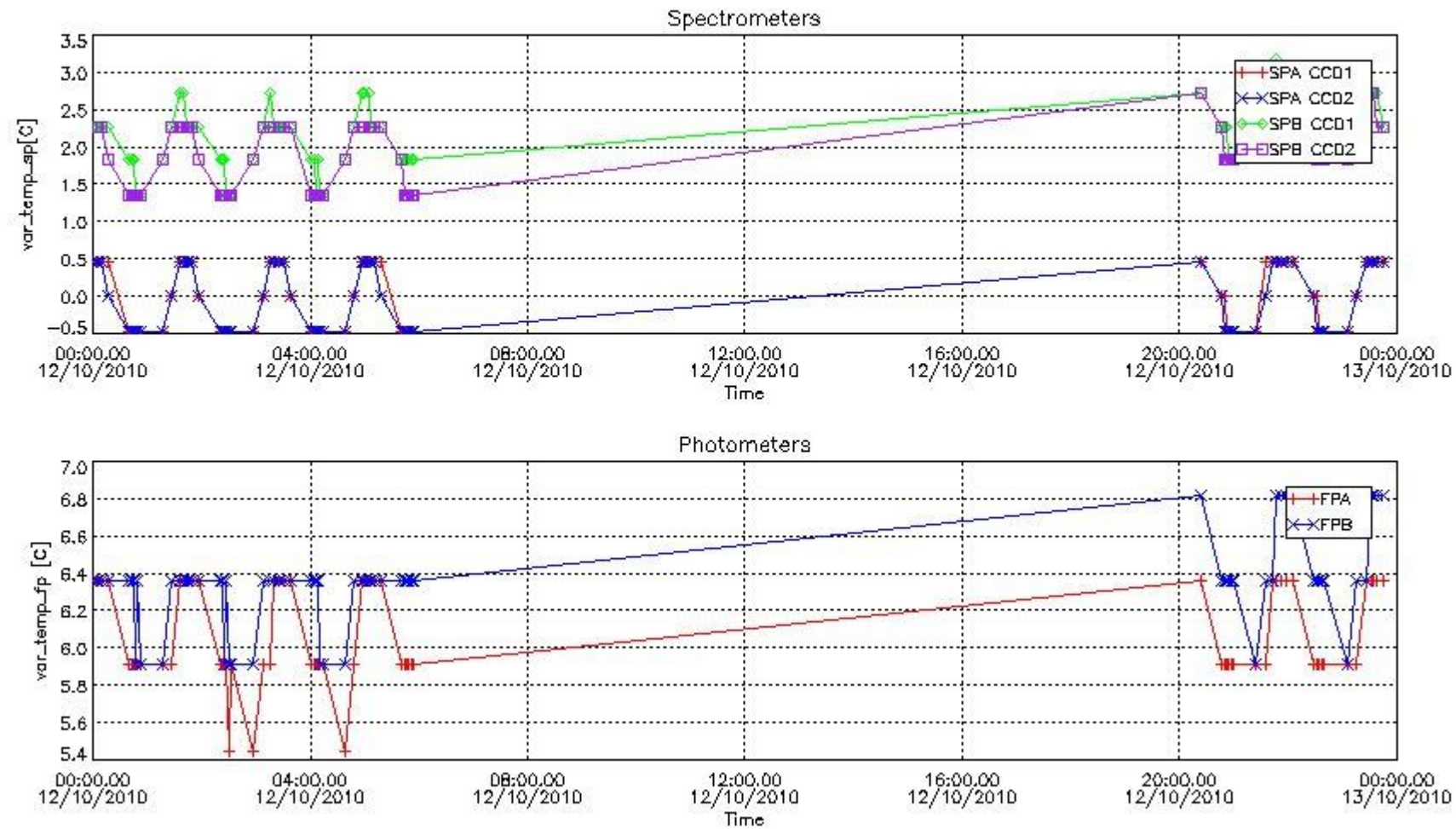
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101012_000328_000000432093_00403_45046_0839.N1	12-OCT-2010 00:03:28	Dark	42.500	161	Tau Pup	2.9310	4500.0	85	45046	No
2	GOM_TRA_1PNPDE20101012_000450_000000592093_00403_45046_0840.N1	12-OCT-2010 00:04:50	Dark	59.000	2	Alp Car	-0.73600	7000.0	118	45046	No
3	GOM_TRA_1PNPDE20101012_000858_000000662093_00403_45046_0841.N1	12-OCT-2010 00:08:58	Dark	66.000	108	Alp Col	2.6520	15200.	132	45046	No
4	GOM_TRA_1PNPDE20101012_001653_000000482093_00403_45046_0842.N1	12-OCT-2010 00:16:53	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	45046	No
5	GOM_TRA_1PNPDE20101012_003945_000000512093_00403_45046_0843.N1	12-OCT-2010 00:39:45	Bright	50.500	105	6Bet Ari	2.6450	8900.0	101	45046	No
6	GOM_TRA_1PNPDE20101012_004255_000000442093_00403_45046_0844.N1	12-OCT-2010 00:42:55	Bright	44.000	53	43Bet And	2.0480	3300.0	88	45046	No
7	GOM_TRA_1PNPDE20101012_004457_000000502093_00403_45046_0845.N1	12-OCT-2010 00:44:57	Bright	50.000	173	4Bet Tri	3.0040	8900.0	100	45046	No
8	GOM_TRA_1PNPDE20101012_004643_000000482093_00403_45046_0846.N1	12-OCT-2010 00:46:43	Bright	47.500	73	57Gam1And	2.2600	13100.	95	45046	No

9	GOM_TRA_1PNPDE20101012_004940_000000402093_00403_45046_0847.N1	12-OCT-2010 00:49:40	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	45046	No
10	GOM_TRA_1PNPDE20101012_005208_000000452093_00403_45046_0848.N1	12-OCT-2010 00:52:08	Bright	45.000	160	23Gam Per	2.9300	4700.0	90	45046	No
11	GOM_TRA_1PNPDE20101012_011659_000000392093_00403_45046_0849.N1	12-OCT-2010 01:16:59	Bright	38.500	166	17Eps Leo	2.9800	6000.0	77	45046	No
12	GOM_TRA_1PNPDE20101012_012716_000000532093_00403_45046_0749.N1	12-OCT-2010 01:27:16	Dark	53.000	48	30Alp Hya	1.9770	4100.0	106	45046	No
13	GOM_TRA_1PNPDE20101012_013537_000000492093_00403_45046_0750.N1	12-OCT-2010 01:35:37	Dark	49.000	132	15Rho Pup	2.8030	6900.0	98	45046	No
14	GOM_TRA_1PNPDE20101012_013854_000000432093_00403_45046_0751.N1	12-OCT-2010 01:38:54	Dark	43.000	70	Zet Pup	2.2460	39000.	86	45046	No
15	GOM_TRA_1PNPDE20101012_014404_000000442093_00404_45047_0752.N1	12-OCT-2010 01:44:04	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	45047	No
16	GOM_TRA_1PNPDE20101012_014527_000000482093_00404_45047_0753.N1	12-OCT-2010 01:45:27	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	45047	No
17	GOM_TRA_1PNPDE20101012_014936_000000652093_00404_45047_0754.N1	12-OCT-2010 01:49:36	Dark	64.500	108	Alp Col	2.6520	15200.	129	45047	No
18	GOM_TRA_1PNPDE20101012_015730_000000472093_00404_45047_0755.N1	12-OCT-2010 01:57:30	Straylight	47.000	157	The1Eri	2.9060	9300.0	94	45047	No
19	GOM_TRA_1PNPDE20101012_022020_000000502093_00404_45047_0756.N1	12-OCT-2010 02:20:20	Bright	50.000	105	6Bet Ari	2.6450	8900.0	100	45047	No
20	GOM_TRA_1PNPDE20101012_022330_000000442093_00404_45047_0757.N1	12-OCT-2010 02:23:30	Bright	43.500	53	43Bet And	2.0480	3300.0	87	45047	No
21	GOM_TRA_1PNPDE20101012_022532_000000502093_00404_45047_0758.N1	12-OCT-2010 02:25:32	Bright	50.000	173	4Bet Tri	3.0040	8900.0	100	45047	No
22	GOM_TRA_1PNPDE20101012_022718_000000482093_00404_45047_0759.N1	12-OCT-2010 02:27:18	Bright	48.000	73	57Gam1And	2.2600	13100.	96	45047	No
23	GOM_TRA_1PNPDE20101012_023016_000000392093_00404_45047_0760.N1	12-OCT-2010 02:30:16	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	45047	No
24	GOM_TRA_1PNPDE20101012_023244_000000472093_00404_45047_0761.N1	12-OCT-2010 02:32:44	Bright	46.500	160	23Gam Per	2.9300	4700.0	93	45047	No
25	GOM_TRA_1PNPDE20101012_025736_000000392093_00404_45047_0776.N1	12-OCT-2010 02:57:36	Bright	38.500	166	17Eps Leo	2.9800	6000.0	77	45047	No
26	GOM_TRA_1PNPDE20101012_030752_000000512093_00404_45047_0777.N1	12-OCT-2010 03:07:52	Dark	50.500	48	30Alp Hya	1.9770	4100.0	101	45047	No
27	GOM_TRA_1PNPDE20101012_031614_000000532093_00404_45047_0778.N1	12-OCT-2010 03:16:14	Dark	53.000	132	15Rho Pup	2.8030	6900.0	106	45047	No
28	GOM_TRA_1PNPDE20101012_031931_000000432093_00404_45047_0779.N1	12-OCT-2010 03:19:31	Dark	43.000	70	Zet Pup	2.2460	39000.	86	45047	No
29	GOM_TRA_1PNPDE20101012_032441_000000442093_00405_45048_0780.N1	12-OCT-2010 03:24:41	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	45048	No
30	GOM_TRA_1PNPDE20101012_032603_000000462093_00405_45048_0781.N1	12-OCT-2010 03:26:03	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	45048	No
31	GOM_TRA_1PNPDE20101012_033013_000000642093_00405_45048_0782.N1	12-OCT-2010 03:30:13	Dark	63.500	108	Alp Col	2.6520	15200.	127	45048	No
32	GOM_TRA_1PNPDE20101012_033806_000000472093_00405_45048_0783.N1	12-OCT-2010 03:38:06	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	45048	No
33	GOM_TRA_1PNPDE20101012_040055_000000502093_00405_45048_0784.N1	12-OCT-2010 04:00:55	Bright	50.000	105	6Bet Ari	2.6450	8900.0	100	45048	No
34	GOM_TRA_1PNPDE20101012_040406_000000452093_00405_45048_0785.N1	12-OCT-2010 04:04:06	Bright	44.500	53	43Bet And	2.0480	3300.0	89	45048	No
35	GOM_TRA_1PNPDE20101012_040607_000000492093_00405_45048_0786.N1	12-OCT-2010 04:06:07	Bright	48.500	173	4Bet Tri	3.0040	8900.0	97	45048	No
36	GOM_TRA_1PNPDE20101012_040754_000000482093_00405_45048_0787.N1	12-OCT-2010 04:07:54	Bright	48.000	73	57Gam1And	2.2600	13100.	96	45048	No
37	GOM_TRA_1PNPDE20101012_041052_000000392093_00405_45048_0788.N1	12-OCT-2010 04:10:52	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	45048	No
38	GOM_TRA_1PNPDE20101012_041319_000000492093_00405_45048_0789.N1	12-OCT-2010 04:13:19	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	45048	No
39	GOM_TRA_1PNPDE20101012_043812_000000402093_00405_45048_0808.N1	12-OCT-2010 04:38:12	Bright	40.000	166	17Eps Leo	2.9800	6000.0	80	45048	No
40	GOM_TRA_1PNPDE20101012_044829_000000512093_00405_45048_0809.N1	12-OCT-2010 04:48:29	Dark	51.000	48	30Alp Hya	1.9770	4100.0	102	45048	No
41	GOM_TRA_1PNPDE20101012_045651_000000542093_00405_45048_0810.N1	12-OCT-2010 04:56:51	Dark	53.500	132	15Rho Pup	2.8030	6900.0	107	45048	No
42	GOM_TRA_1PNPDE20101012_050008_000000502093_00405_45048_0811.N1	12-OCT-2010 05:00:08	Dark	49.500	70	Zet Pup	2.2460	39000.	99	45048	No
43	GOM_TRA_1PNPDE20101012_050518_000000432093_00406_45049_0812.N1	12-OCT-2010 05:05:18	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	45049	No
44	GOM_TRA_1PNPDE20101012_050640_000000612093_00406_45049_0813.N1	12-OCT-2010 05:06:40	Dark	60.500	2	Alp Car	-0.73600	7000.0	121	45049	No
45	GOM_TRA_1PNPDE20101012_051051_000000652093_00406_45049_0814.N1	12-OCT-2010 05:10:51	Dark	64.500	108	Alp Col	2.6520	15200.	129	45049	No
46	GOM_TRA_1PNPDE20101012_051843_000000482093_00406_45049_0815.N1	12-OCT-2010 05:18:43	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	45049	No
47	GOM_TRA_1PNPDE20101012_054130_000000502093_00406_45049_0816.N1	12-OCT-2010 05:41:30	Bright	50.000	105	6Bet Ari	2.6450	8900.0	100	45049	No
48	GOM_TRA_1PNPDE20101012_054442_000000412093_00406_45049_0817.N1	12-OCT-2010 05:44:42	Bright	40.500	53	43Bet And	2.0480	3300.0	81	45049	No
49	GOM_TRA_1PNPDE20101012_054643_000000482093_00406_45049_0818.N1	12-OCT-2010 05:46:43	Bright	48.000	173	4Bet Tri	3.0040	8900.0	96	45049	No
50	GOM_TRA_1PNPDE20101012_054829_000000502093_00406_45049_0819.N1	12-OCT-2010 05:48:29	Bright	50.000	73	57Gam1And	2.2600	13100.	100	45049	No
51	GOM_TRA_1PNPDE20101012_055128_000000392093_00406_45049_0820.N1	12-OCT-2010 05:51:28	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	45049	No
52	GOM_TRA_1PNPDE20101012_055354_000000482093_00406_45049_0821.N1	12-OCT-2010 05:53:54	Bright	47.500	160	23Gam Per	2.9300	4700.0	95	45049	No
53	GOM_TRA_1PNPDE20101012_202411_000000472093_00415_45058_1745.N1	12-OCT-2010 20:24:11	Straylight	47.000	157	The1Eri	2.9060	9300.0	94	45058	Yes
54	GOM_TRA_1PNPDE20101012_204648_000000502093_00415_45058_1746.N1	12-OCT-2010 20:46:48	Bright	49.500	105	6Bet Ari	2.6450	8900.0	99	45058	No
55	GOM_TRA_1PNPDE20101012_205001_000000442093_00415_45058_1747.N1	12-OCT-2010 20:50:01	Bright	43.500	53	43Bet And	2.0480	3300.0	87	45058	No
56	GOM_TRA_1PNPDE20101012_205158_000000482093_00415_45058_1748.N1	12-OCT-2010 20:51:58	Bright	47.500	173	4Bet Tri	3.0040	8900.0	95	45058	No
57	GOM_TRA_1PNPDE20101012_205346_000000482093_00415_45058_1749.N1	12-OCT-2010 20:53:46	Bright	47.500	73	57Gam1And	2.2600	13100.	95	45058	No
58	GOM_TRA_1PNPDE20101012_205649_000000392093_00415_45058_1750.N1	12-OCT-2010 20:56:49	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	45058	No
59	GOM_TRA_1PNPDE20101012_205910_000000452093_00415_45058_1751.N1	12-OCT-2010 20:59:10	Bright	45.000	160	23Gam Per	2.9300	4700.0	90	45058	No
60	GOM_TRA_1PNPDE20101012_212413_000000402093_00415_45058_1752.N1	12-OCT-2010 21:24:13	Bright	40.000	166	17Eps Leo	2.9800	6000.0	80	45058	No
61	GOM_TRA_1PNPDE20101012_213434_000000512093_00415_45058_1745.N1	12-OCT-2010 21:34:34	Dark	51.000	48	30Alp Hya	1.9770	4100.0	102	45058	No
62	GOM_TRA_1PNPDE20101012_214302_000000492093_00415_45058_1746.N1	12-OCT-2010 21:43:02	Dark	49.000	132	15Rho Pup	2.8030	6900.0	98	45058	No
63	GOM_TRA_1PNPDE20101012_214616_000000452093_00415_45058_1747.N1	12-OCT-2010 21:46:16	Dark	44.500	70	Zet Pup	2.2460	39000.	89	45058	No
64	GOM_TRA_1PNPDE20101012_215126_000000442093_00416_45059_1748.N1	12-OCT-2010 21:51:26	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	45059	No
65	GOM_TRA_1PNPDE20101012_215247_000000462093_00416_45059_1749.N1	12-OCT-2010 21:52:47	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	45059	No
66	GOM_TRA_1PNPDE20101012_215705_000000642093_00416_45059_1750.N1	12-OCT-2010 21:57:05	Dark	64.000	108	Alp Col	2.6520	15200.	128	45059	No
67	GOM_TRA_1PNPDE20101012_220448_000000462093_00416_45059_1751.N1	12-OCT-2010 22:04:48	Straylight	45.500	157	The1Eri	2.9060	9300.0	91	45059	No

68	GOM_TRA_1PNPDE20101012_222723_000000492093_00416_45059_1752.N1	12-OCT-2010 22:27:23	Bright	48.500	105	6Bet Ari	2.6450	8900.0	97	45059	No
69	GOM_TRA_1PNPDE20101012_223037_000000422093_00416_45059_1753.N1	12-OCT-2010 22:30:37	Bright	41.500	53	43Bet And	2.0480	3300.0	83	45059	No
70	GOM_TRA_1PNPDE20101012_223234_000000492093_00416_45059_1754.N1	12-OCT-2010 22:32:34	Bright	49.000	173	4Bet Tri	3.0040	8900.0	98	45059	No
71	GOM_TRA_1PNPDE20101012_223421_000000472093_00416_45059_1755.N1	12-OCT-2010 22:34:21	Bright	47.000	73	57Gam1And	2.2600	13100.	94	45059	No
72	GOM_TRA_1PNPDE20101012_223724_000000392093_00416_45059_1756.N1	12-OCT-2010 22:37:24	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	45059	No
73	GOM_TRA_1PNPDE20101012_223945_000000492093_00416_45059_1757.N1	12-OCT-2010 22:39:45	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	45059	No
74	GOM_TRA_1PNPDE20101012_230449_000000402093_00416_45059_1758.N1	12-OCT-2010 23:04:49	Bright	40.000	166	17Eps Leo	2.9800	6000.0	80	45059	No
75	GOM_TRA_1PNPDE20101012_231511_000000522093_00416_45059_1759.N1	12-OCT-2010 23:15:11	Dark	51.500	48	30Alp Hya	1.9770	4100.0	103	45059	No
76	GOM_TRA_1PNPDE20101012_232652_000000442093_00416_45059_1778.N1	12-OCT-2010 23:26:52	Dark	44.000	70	Zet Pup	2.2460	39000.	88	45059	No
77	GOM_TRA_1PNPDE20101012_233202_000000432093_00417_45060_1779.N1	12-OCT-2010 23:32:02	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	45060	No
78	GOM_TRA_1PNPDE20101012_233324_000000452093_00417_45060_1780.N1	12-OCT-2010 23:33:24	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	45060	No
79	GOM_TRA_1PNPDE20101012_233742_000000622093_00417_45060_1781.N1	12-OCT-2010 23:37:42	Dark	62.000	108	Alp Col	2.6520	15200.	124	45060	No
80	GOM_TRA_1PNPDE20101012_234524_000000462093_00417_45060_1782.N1	12-OCT-2010 23:45:24	Straylight	45.500	157	The1Eri	2.9060	9300.0	91	45060	No

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



4. Overview of dark signal processing per product

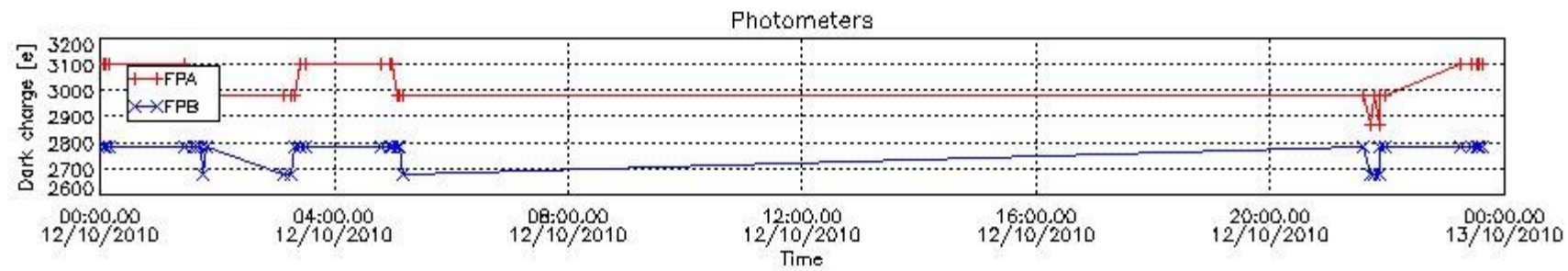
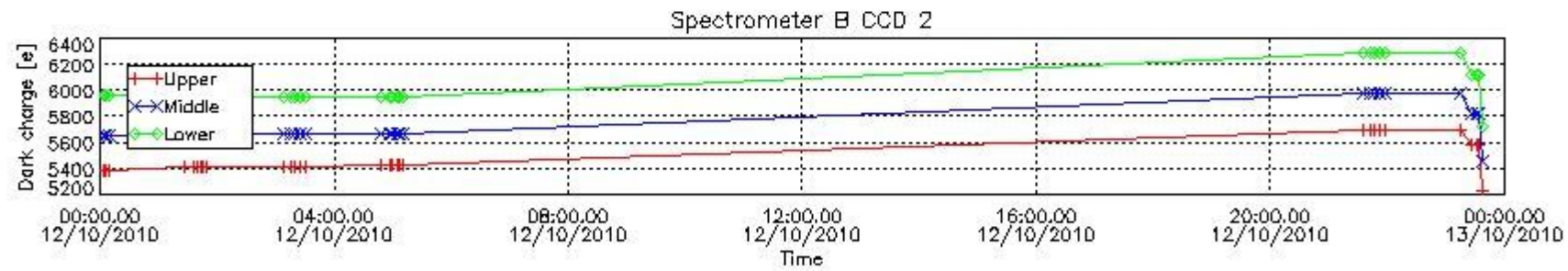
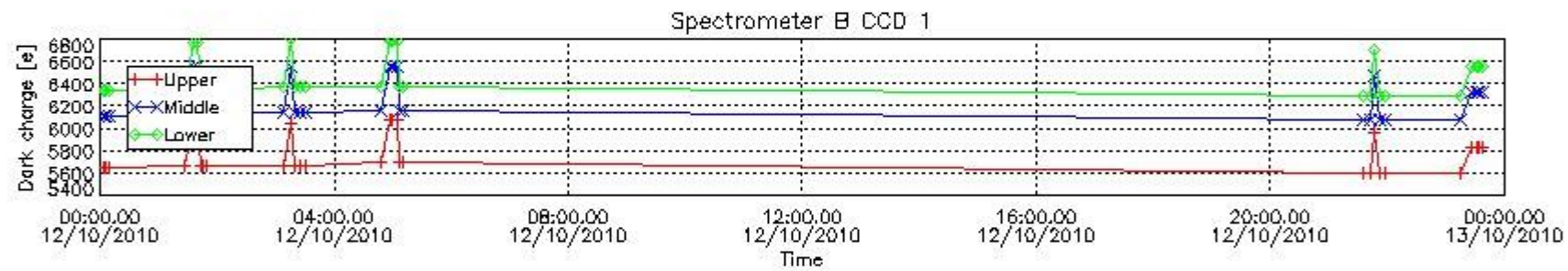
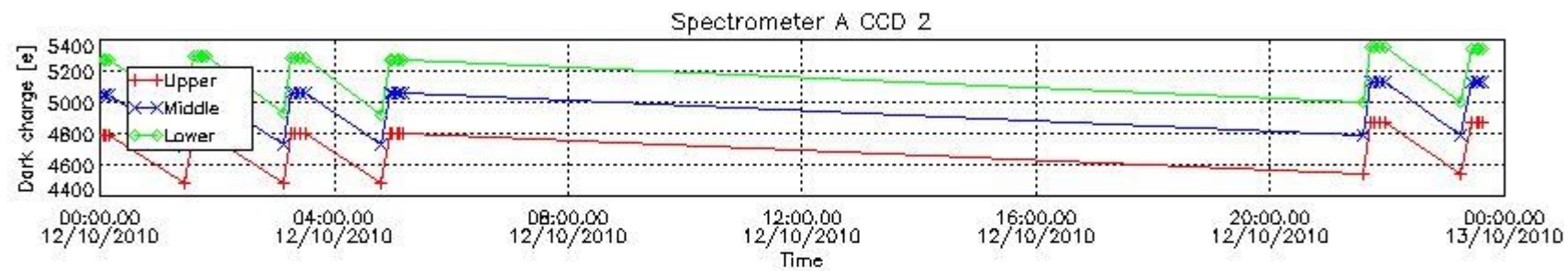
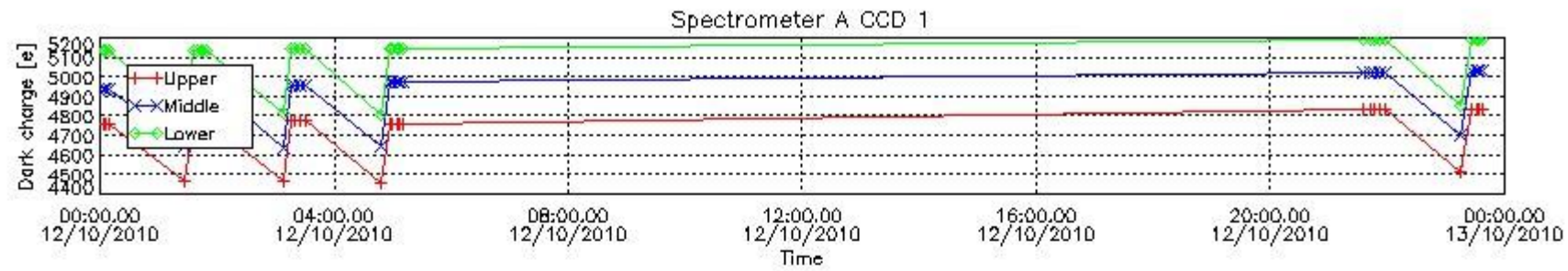
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20101012_202411_000000472093_00415_45058_1745.N1	DC map with no T dep.
GOM_TRA_1PNPDE20101012_204648_000000502093_00415_45058_1746.N1	DC map used
GOM_TRA_1PNPDE20101012_205001_000000442093_00415_45058_1747.N1	DC map used
GOM_TRA_1PNPDE20101012_205158_000000482093_00415_45058_1748.N1	DC map used
GOM_TRA_1PNPDE20101012_205346_000000482093_00415_45058_1749.N1	DC map used
GOM_TRA_1PNPDE20101012_205649_000000392093_00415_45058_1750.N1	DC map used
GOM_TRA_1PNPDE20101012_205910_000000452093_00415_45058_1751.N1	DC map used
GOM_TRA_1PNPDE20101012_212413_000000402093_00415_45058_1752.N1	DC map used

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



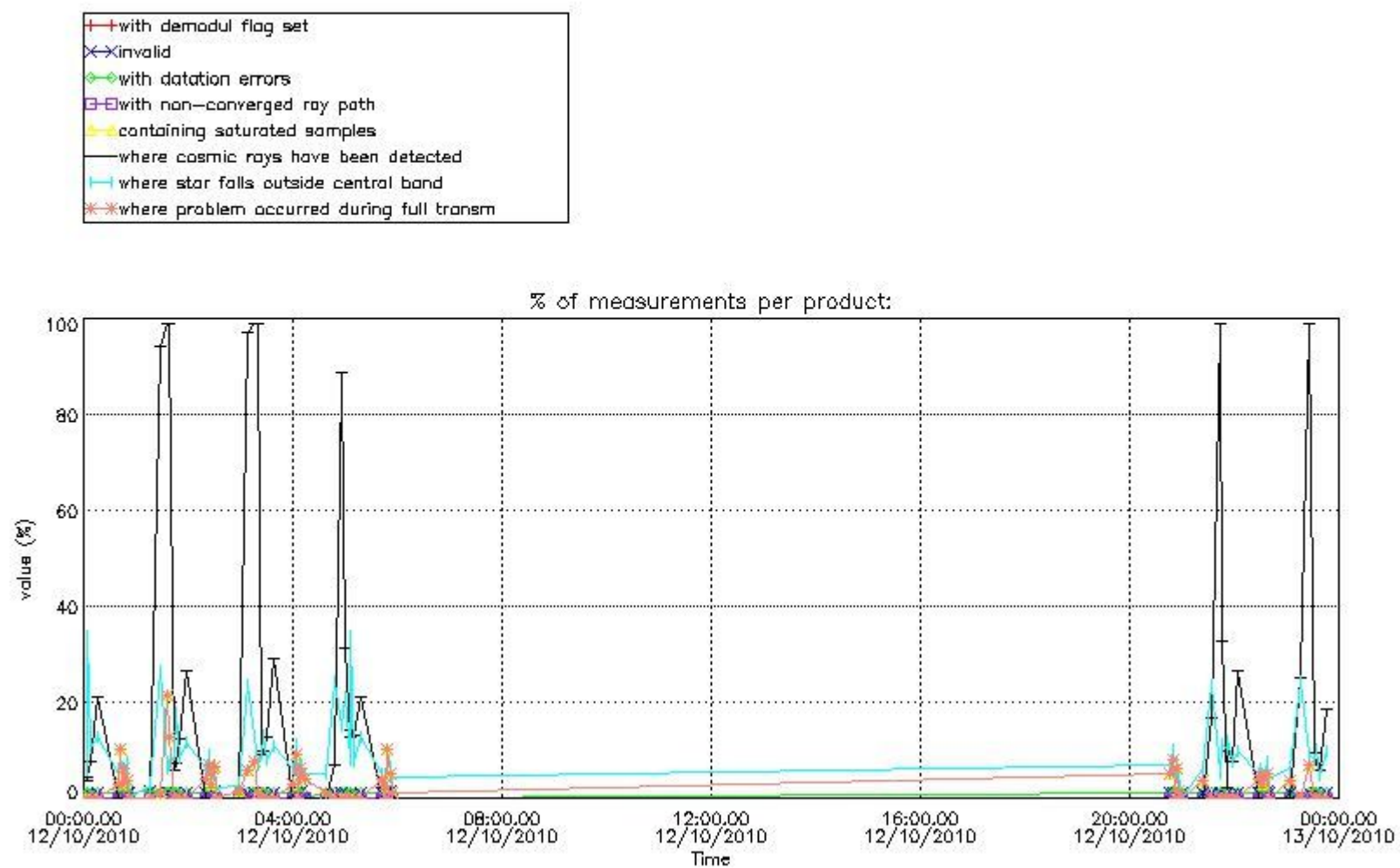
5. Demodulation flag and quality information monitoring

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.

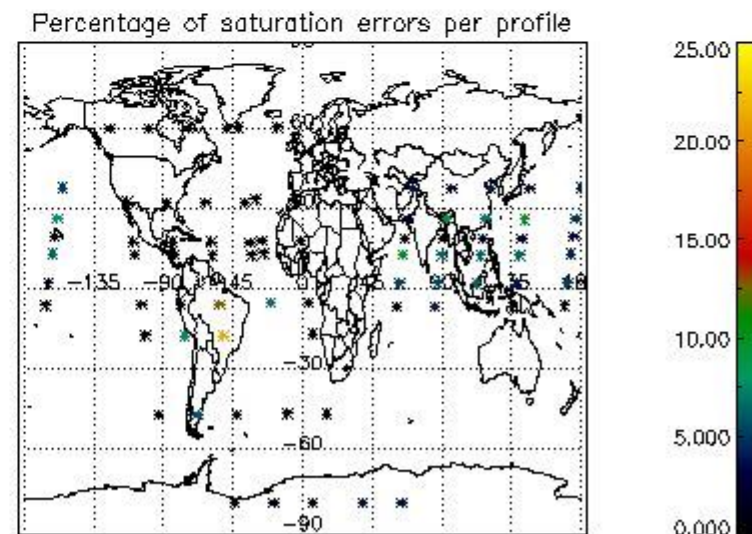
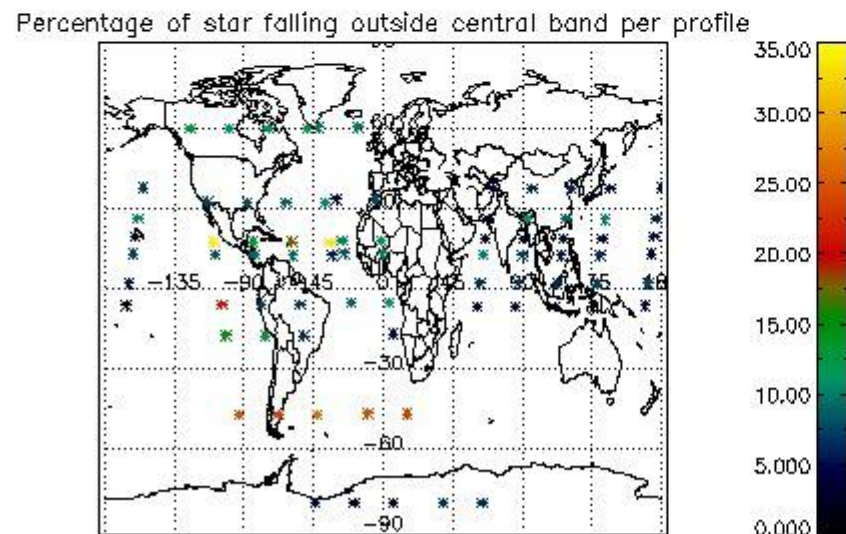
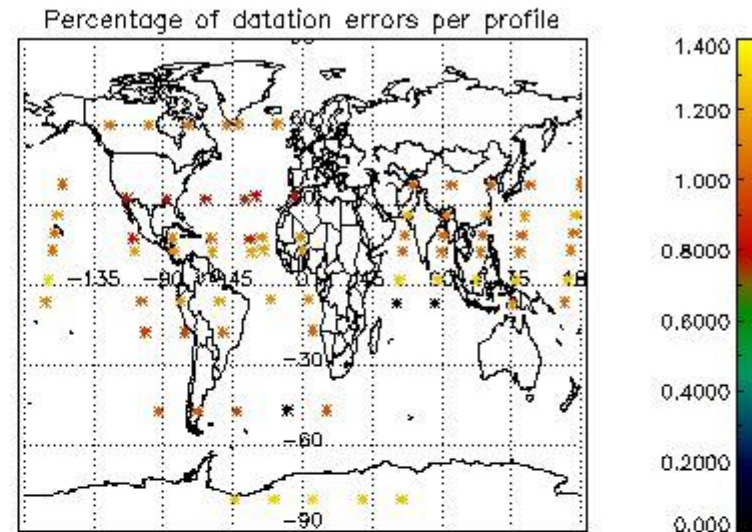
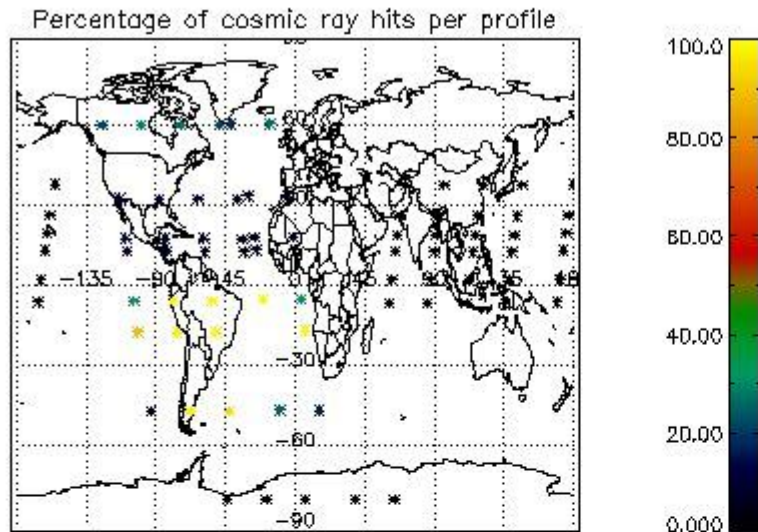
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	46.8354 %
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)



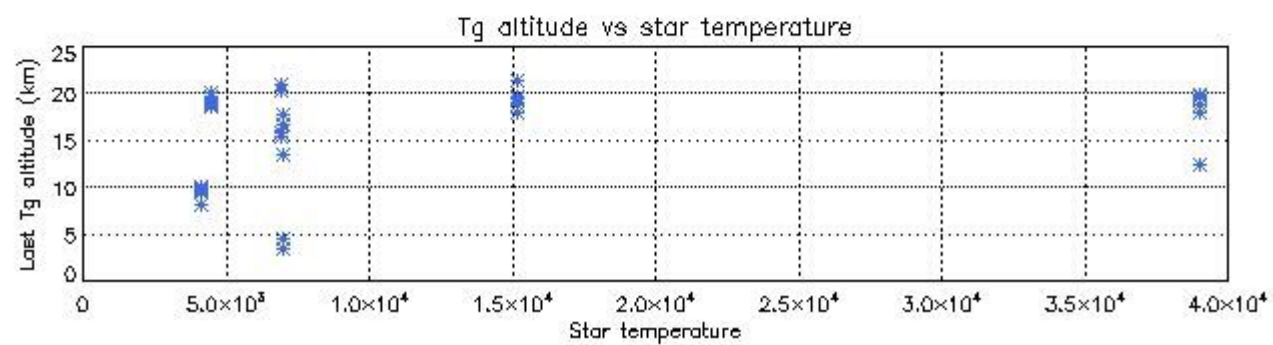
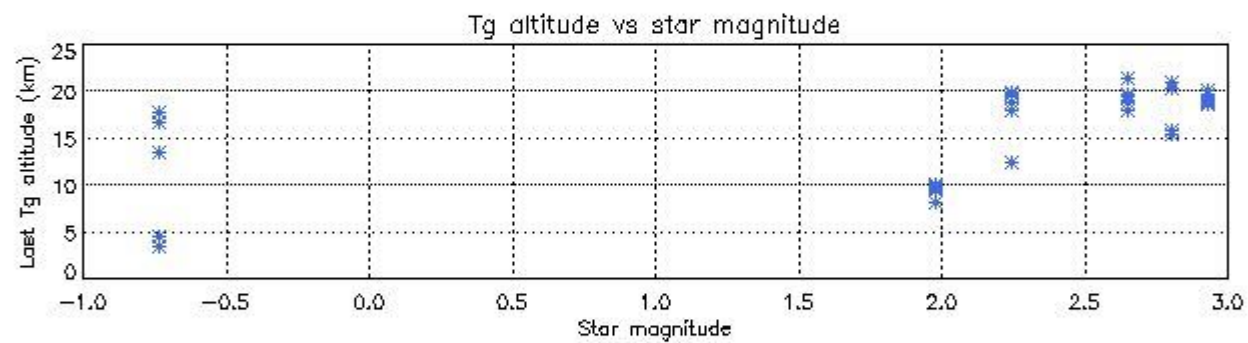
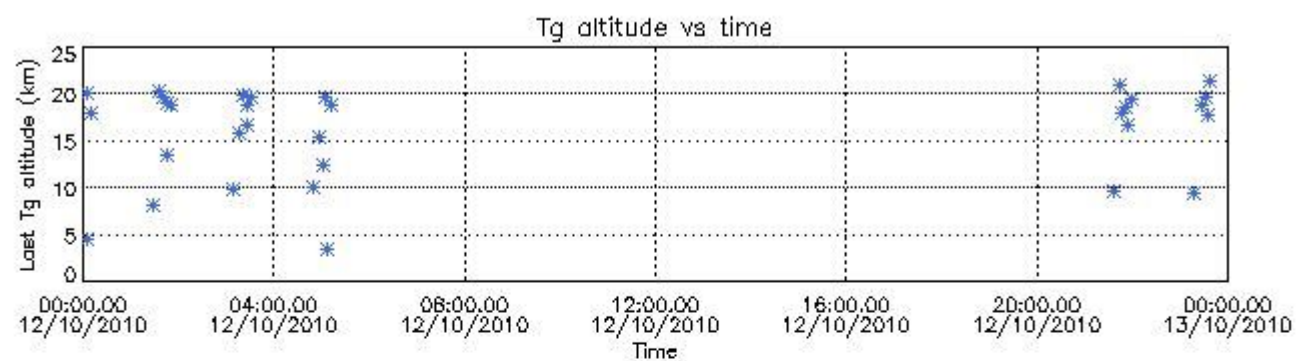
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.013	21.746	NaN
St. deviation:	4.9487	2.6105	NaN
Maximum:	21.326	29.025	NaN
Minimum:	3.4726	17.021	NaN
Number of data:	32.000	41.000	NaN

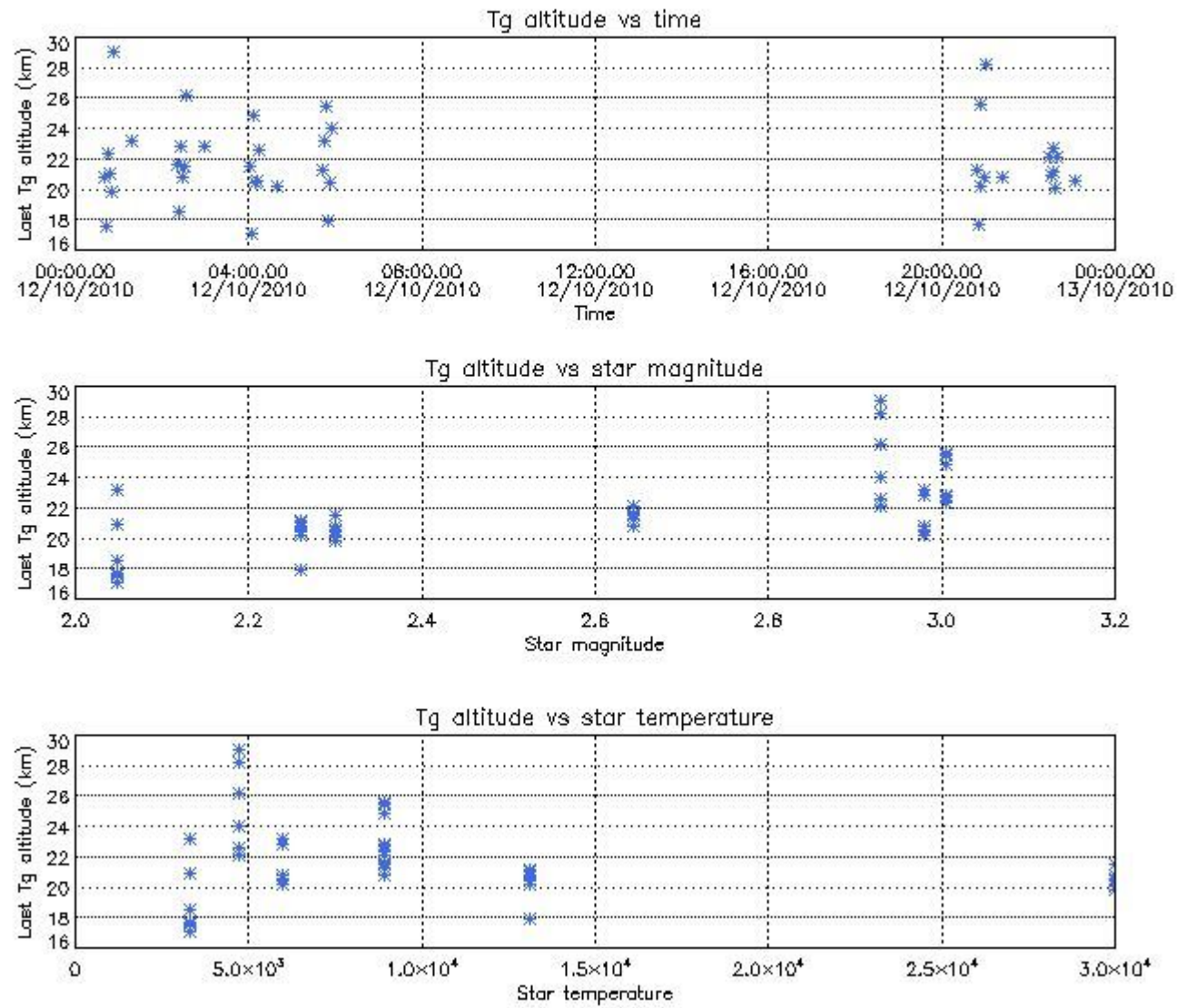
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

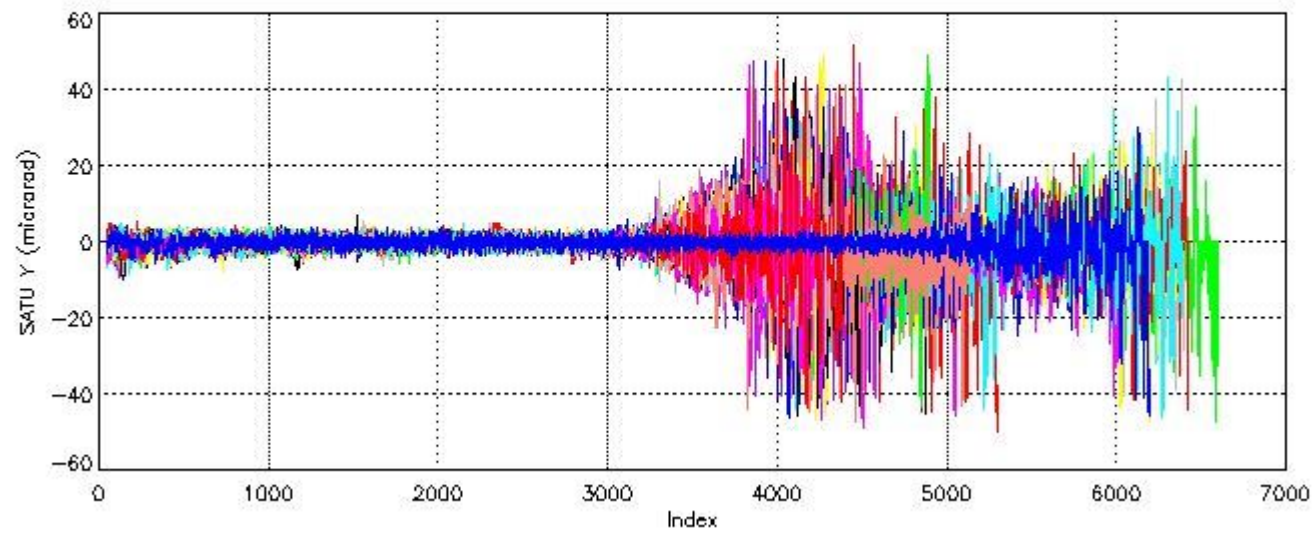
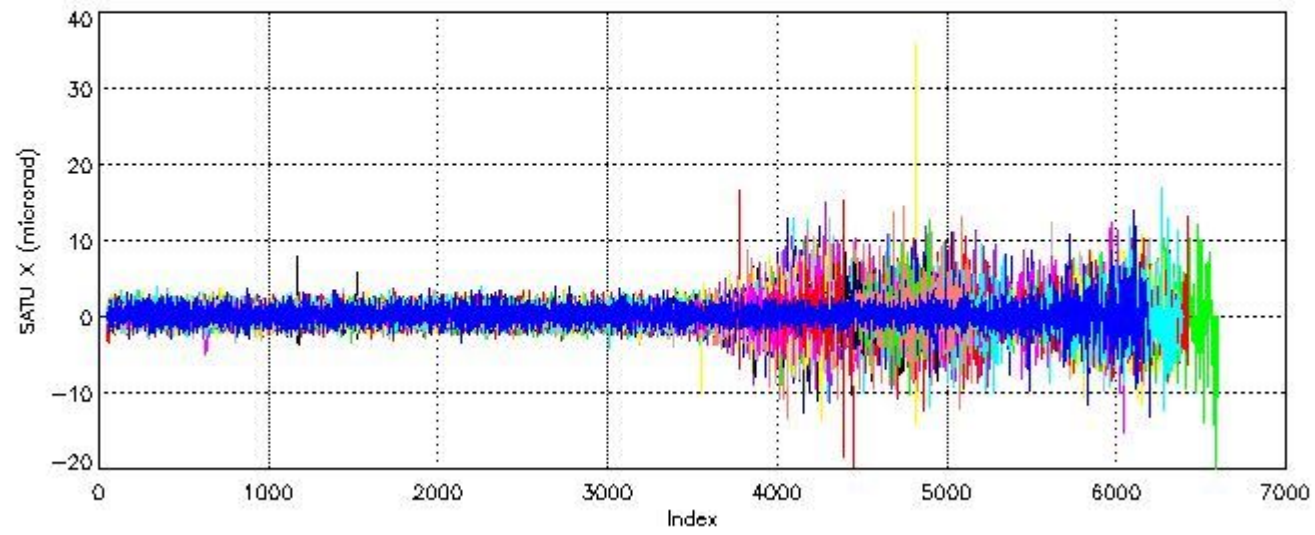


7. Star Acquisition and Tracking Unit (SATU)

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:	0.21350	-0.51740	0.24004	-0.46888
St. deviation:	0.59395	1.3735	0.82916	1.5528
Maximum:	4.0000	5.2000	5.6000	11.300
Minimum:	-4.9000	-10.200	-5.6000	-9.3000

Number of data:	35150.	35150.	46500.	46500.
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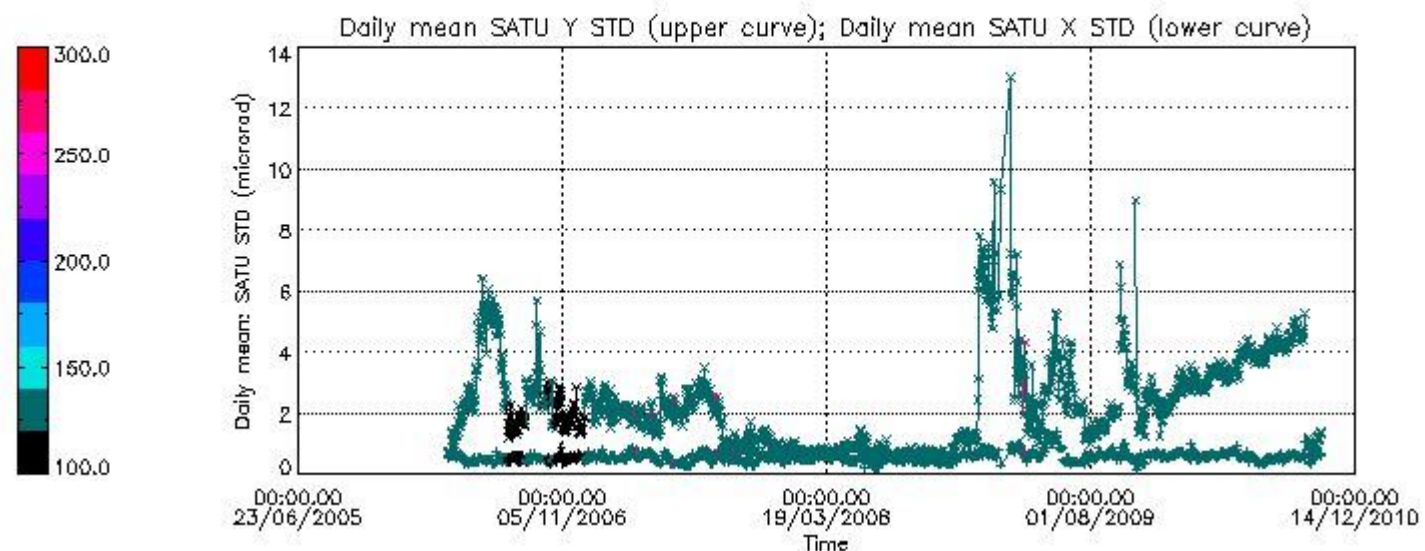
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

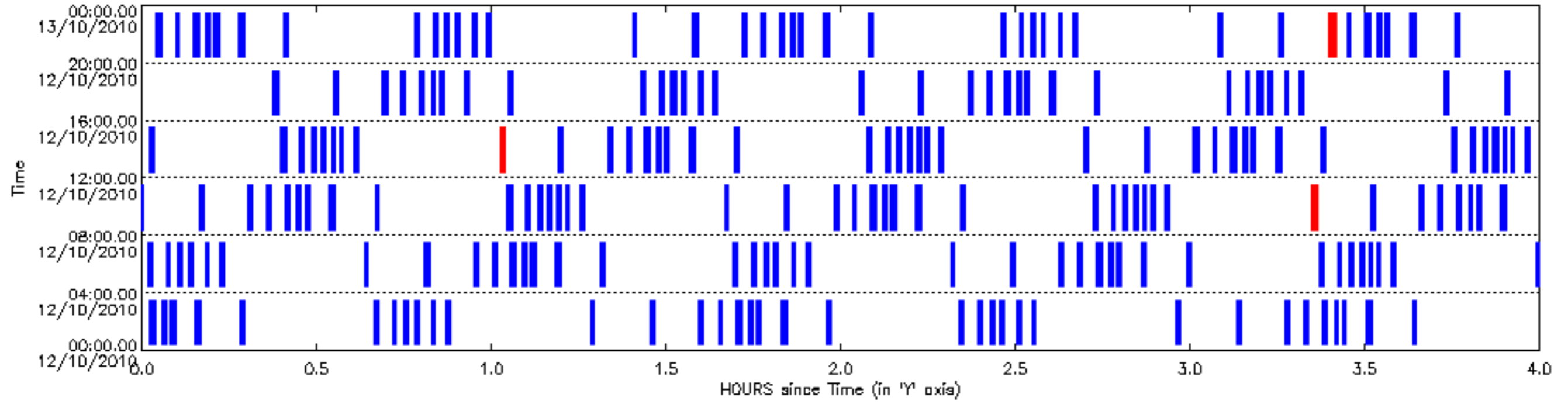
Lower curve: STD of SATU X axis

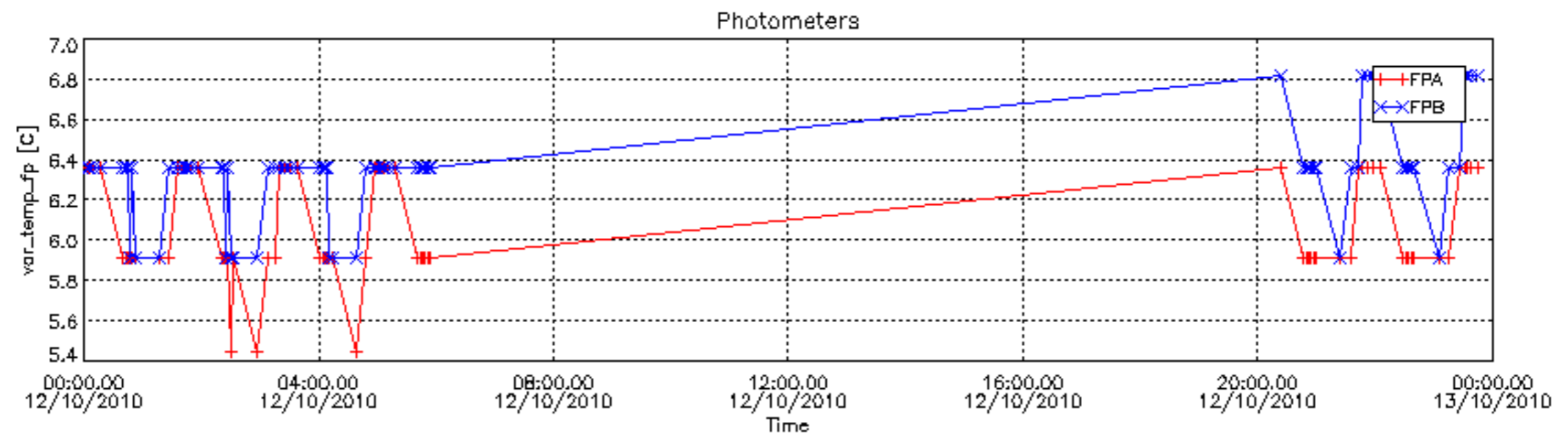
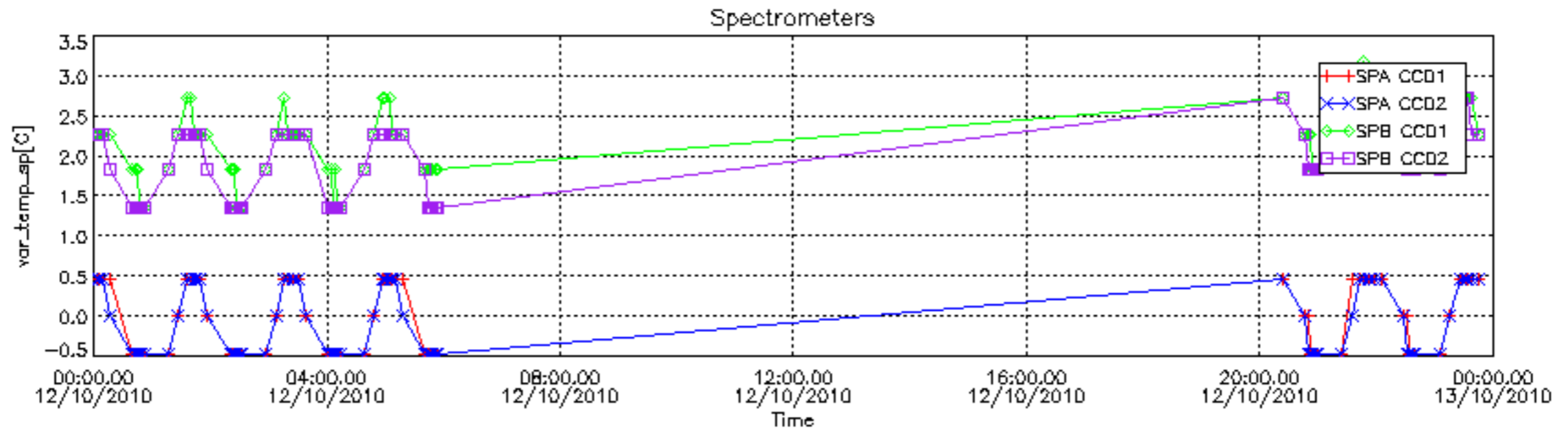


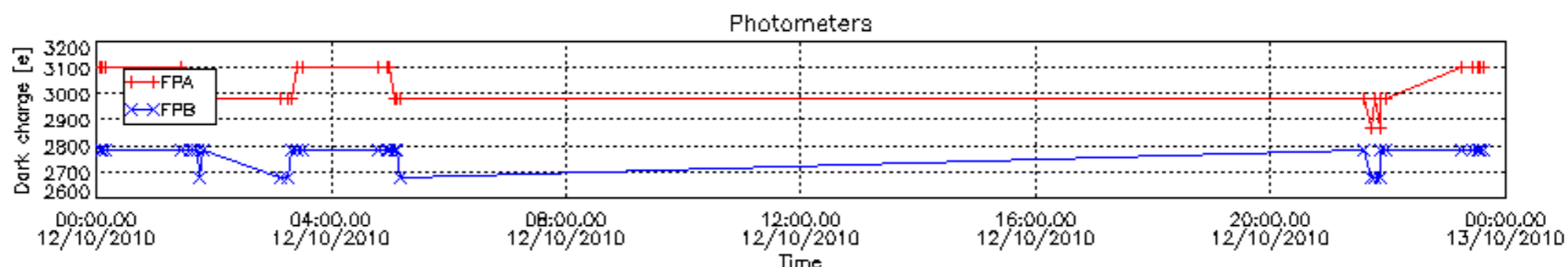
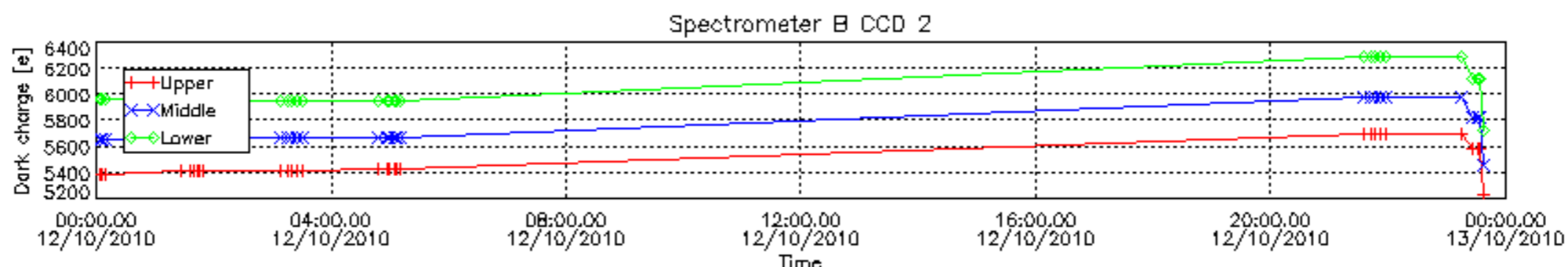
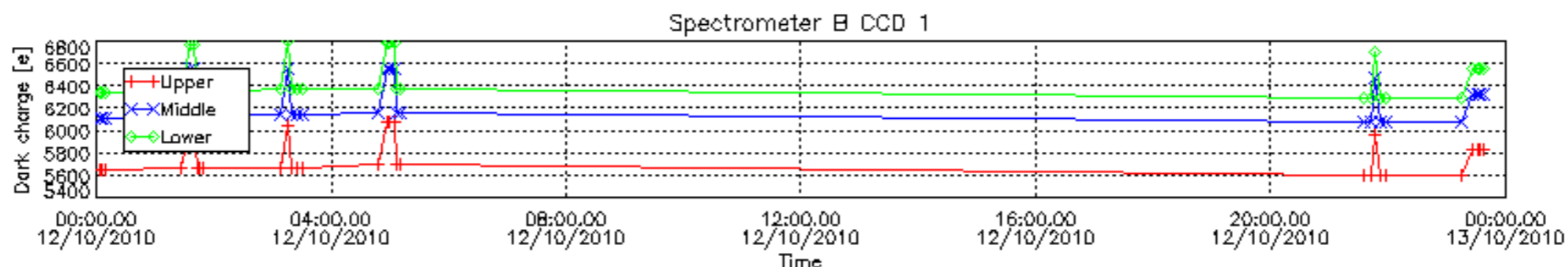
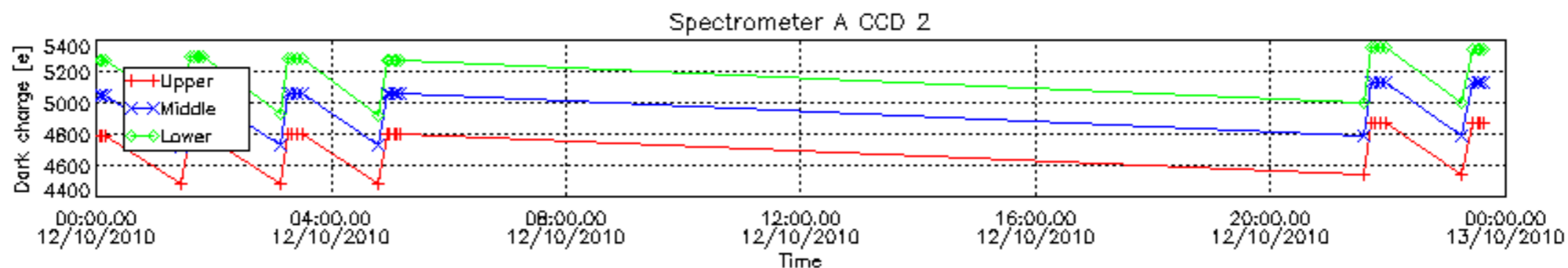
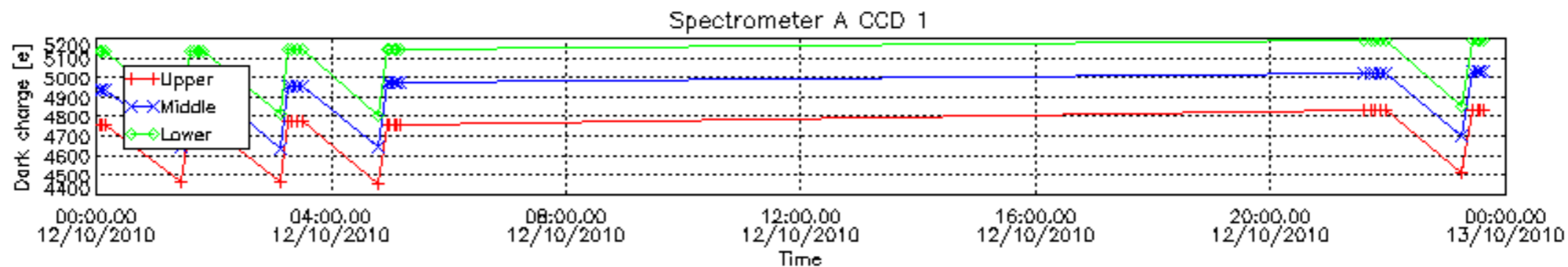
8. Auxiliary Data Files used for the production reported in section 2.4

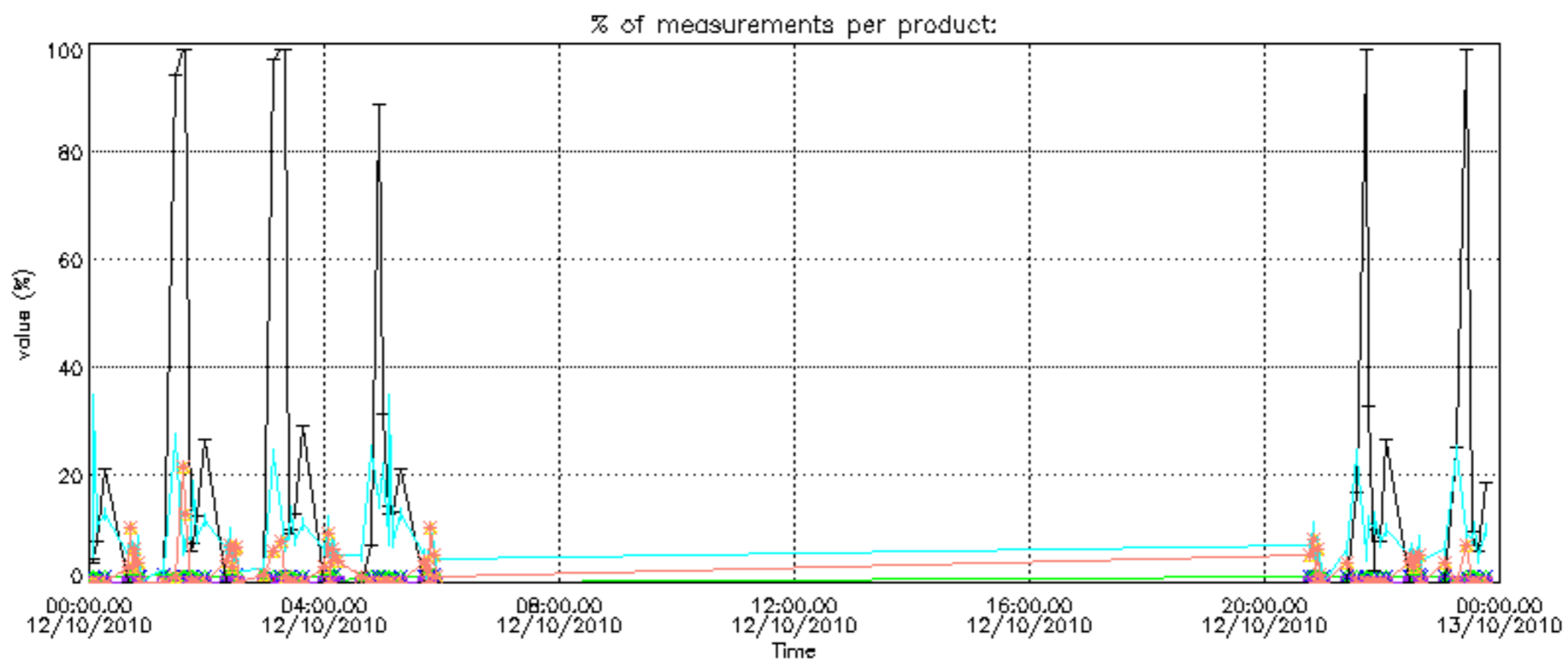
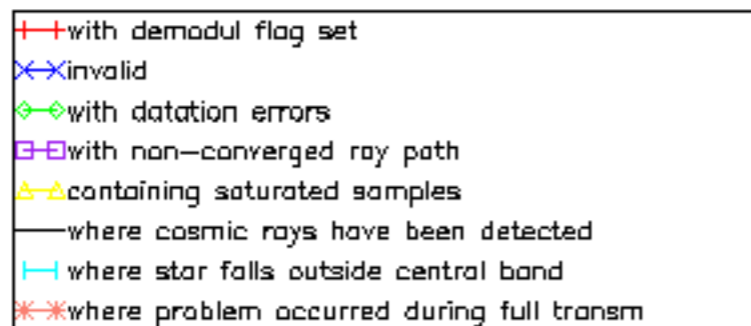
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	12-OCT-2010 00:03:28
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101004_093812_20101002_000000_20500101_000000	1	12-OCT-2010 00:03:28
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	12-OCT-2010 00:03:28
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-OCT-2010 00:03:28
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	12-OCT-2010 00:03:28
ECMWF_FILE	AUX_ECA_AXNECM20101012_052113_20101011_210000_20101012_090000	1	12-OCT-2010 00:03:28
ECMWF_FILE	AUX_ECF_AXNECM20101011_060147_20101011_210000_20101012_090000	12	12-OCT-2010 01:27:16
ECMWF_FILE	AUX_ECF_AXNECM20101011_171907_20101012_030000_20101012_150000	39	12-OCT-2010 04:38:12
ECMWF_FILE	AUX_ECF_AXNECM20101012_054113_20101012_150000_20101013_030000	53	12-OCT-2010 20:24:11
ECMWF_FILE	AUX_ECF_AXNECM20101012_054113_20101012_210000_20101013_090000	61	12-OCT-2010 21:34:34
OPTIONAL_ECMWF_FILE	MISSING	1	12-OCT-2010 00:03:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101011_234447_000057382093_00402_45045_1243.N1	1	12-OCT-2010 00:03:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101012_012544_000038252093_00403_45046_1244.N1	12	12-OCT-2010 01:27:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101012_023448_000060572093_00404_45047_1245.N1	25	12-OCT-2010 02:57:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101012_042104_000057382093_00405_45048_1246.N1	39	12-OCT-2010 04:38:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101012_202245_000038252093_00415_45058_1730.N1	53	12-OCT-2010 20:24:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101012_213149_000057382093_00415_45058_1731.N1	61	12-OCT-2010 21:34:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101012_231246_000057382093_00416_45059_1732.N1	76	12-OCT-2010 23:26:52

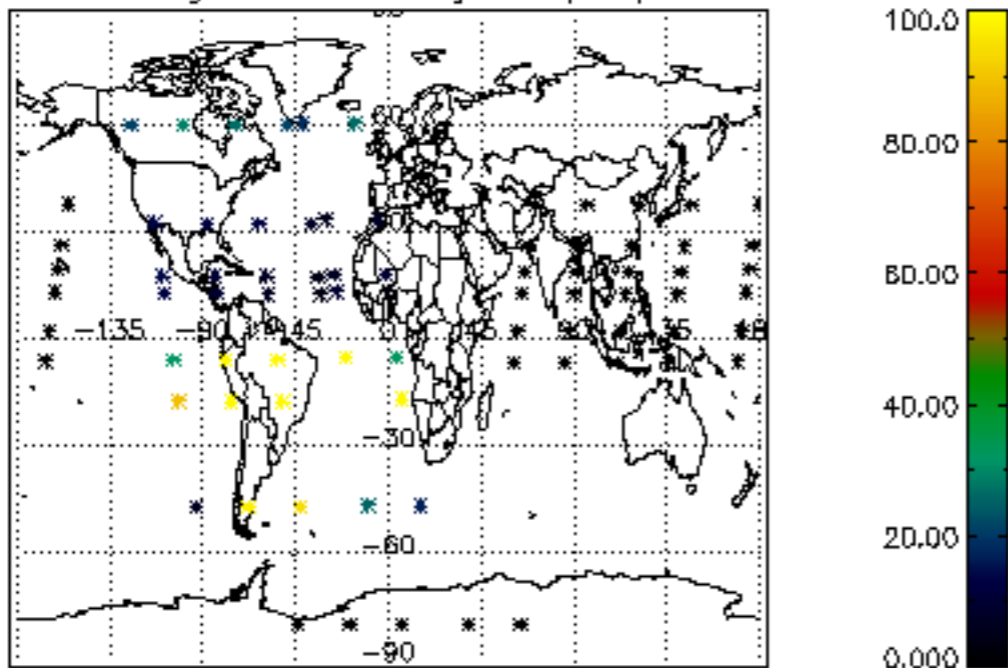




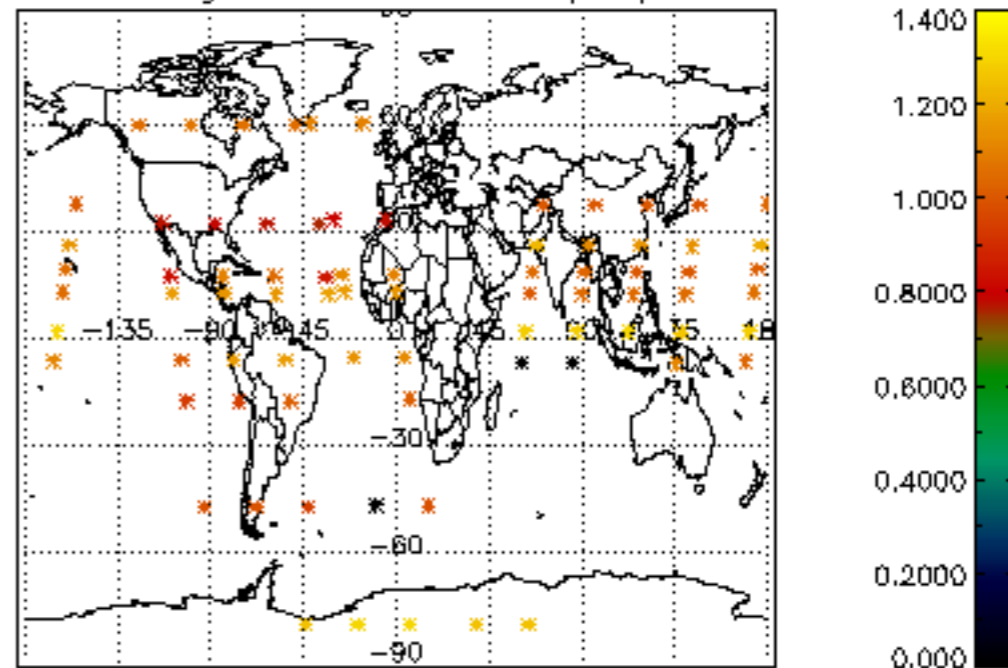




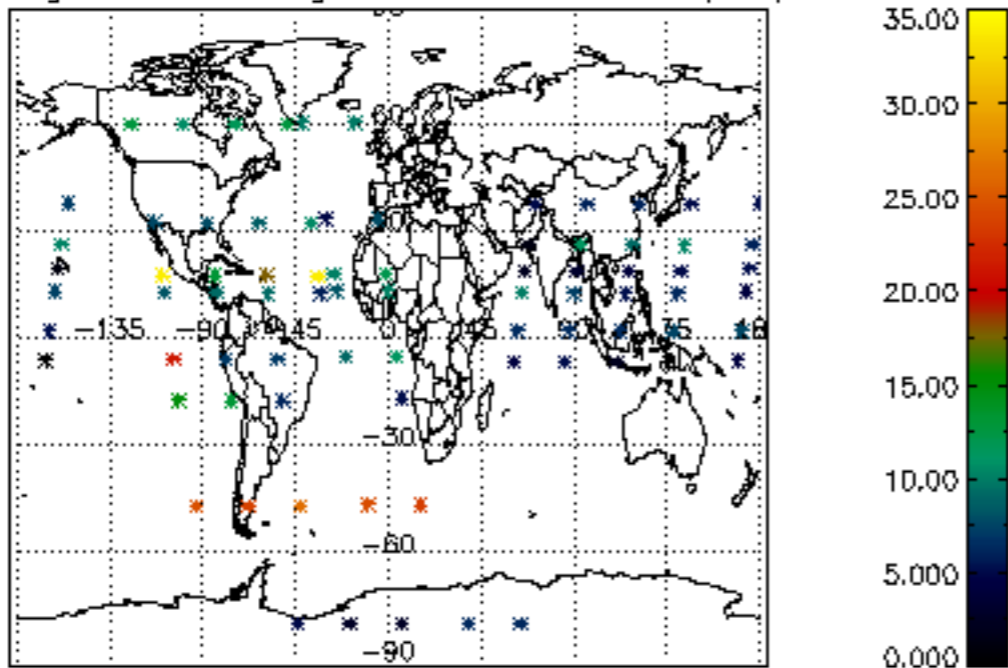
Percentage of cosmic ray hits per profile



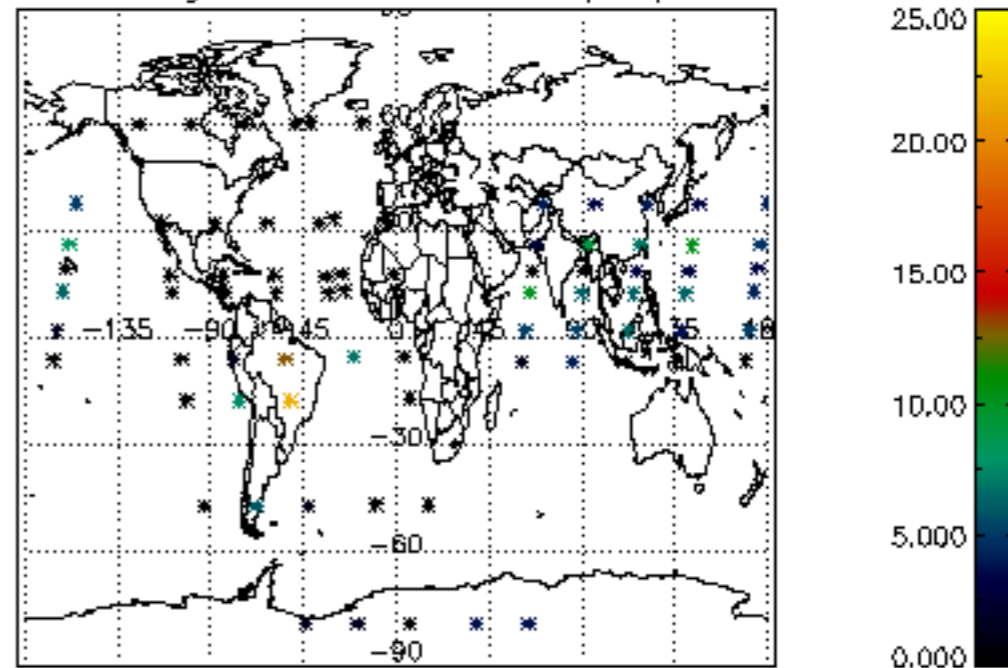
Percentage of datation errors per profile



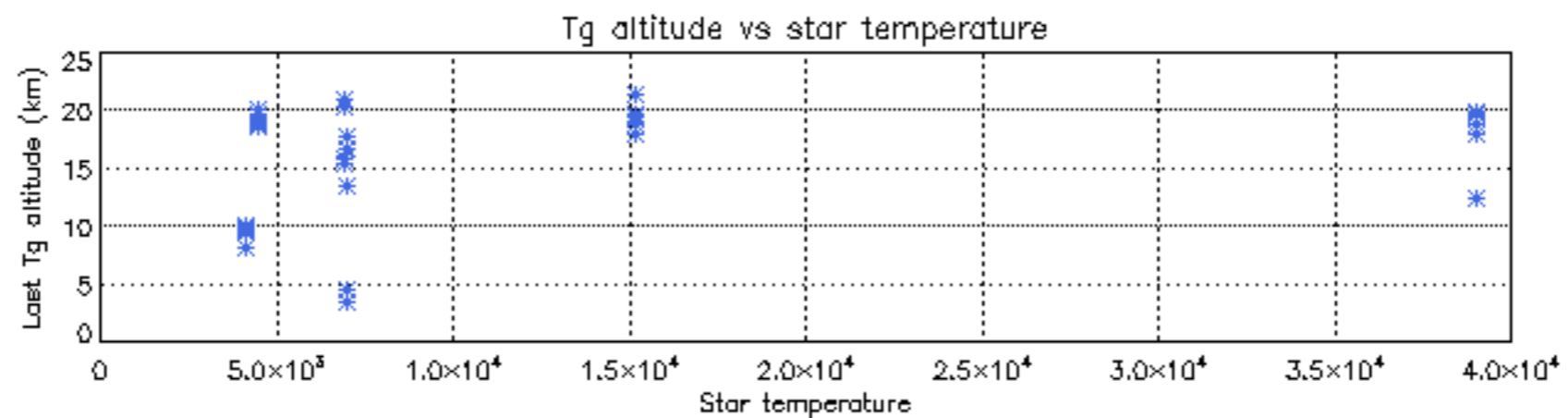
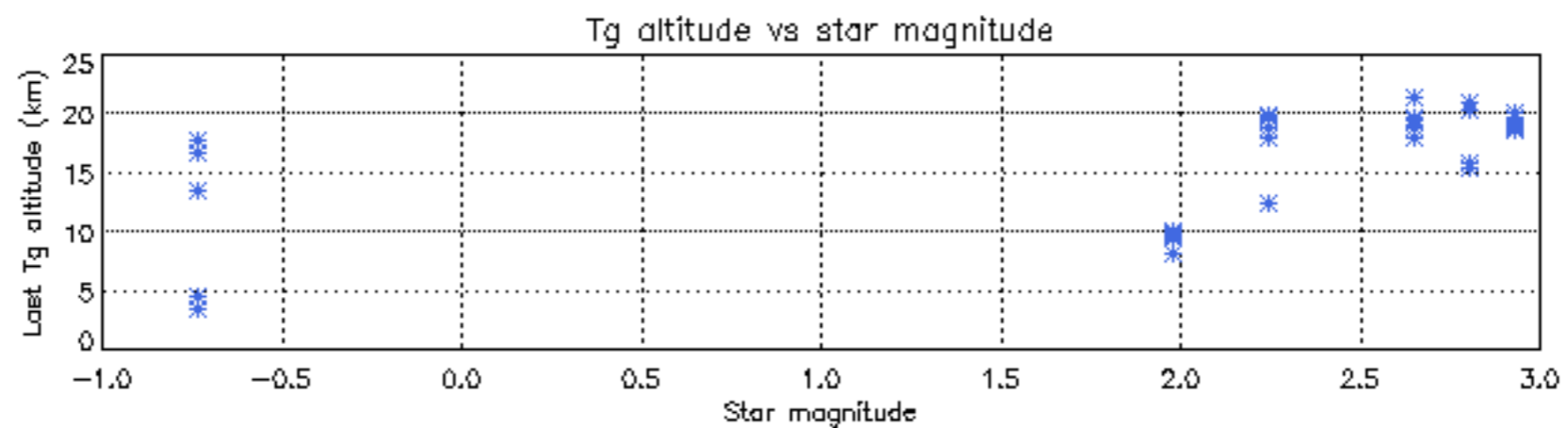
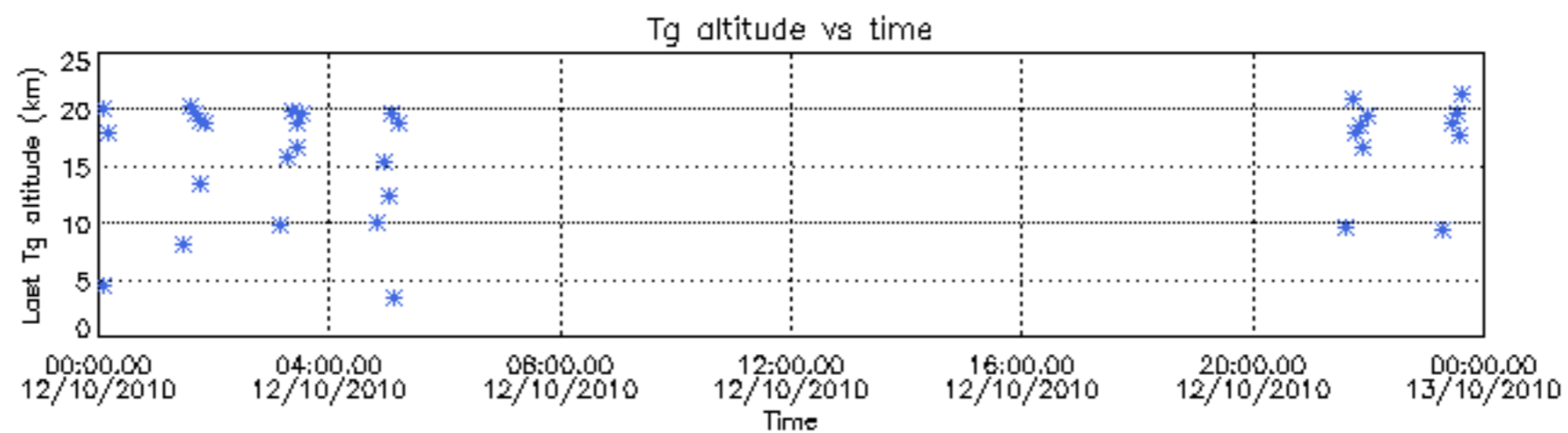
Percentage of star falling outside central band per profile



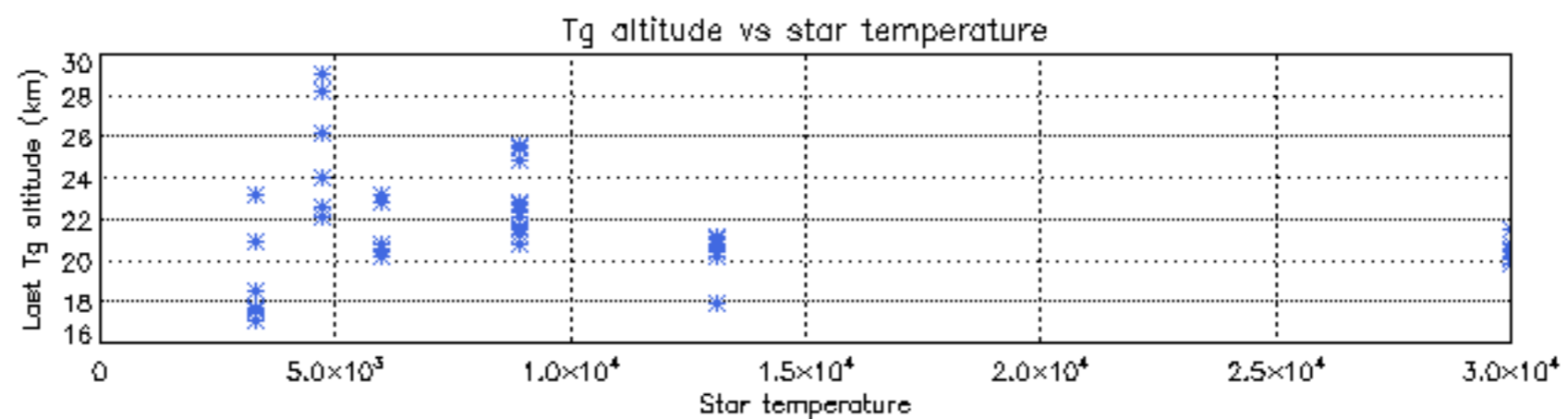
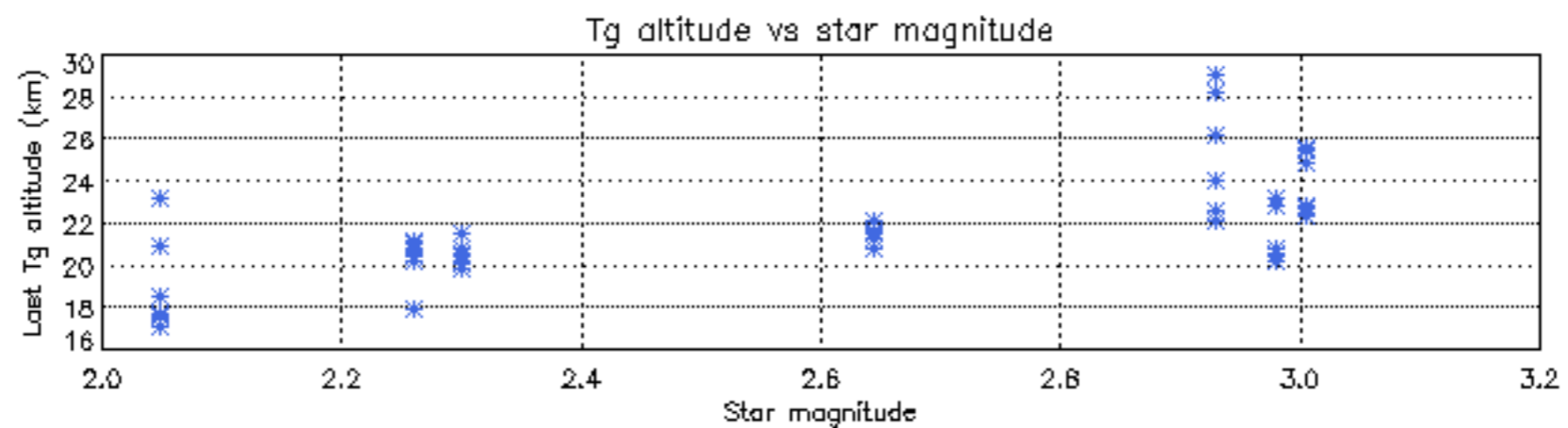
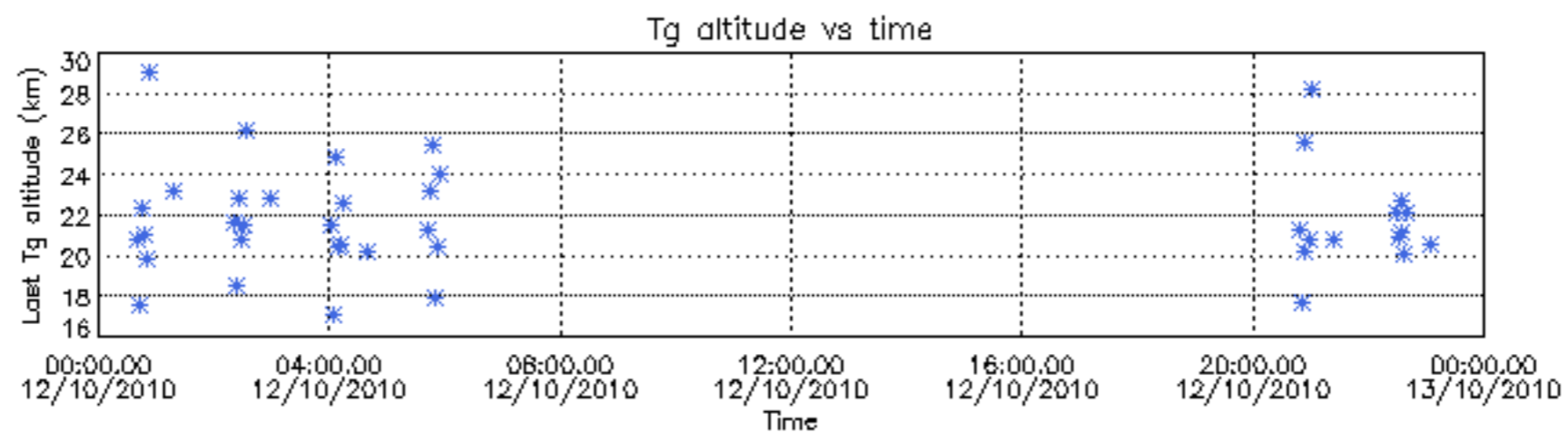
Percentage of saturation errors per profile

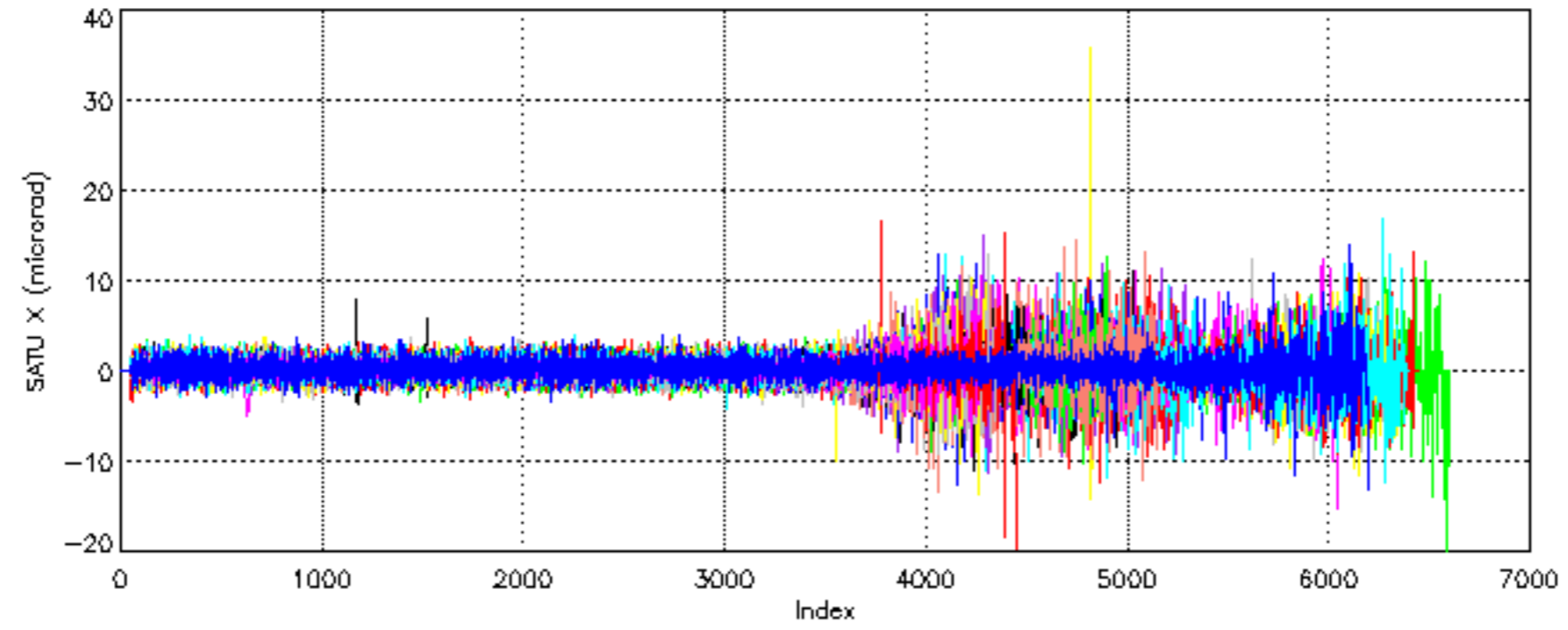


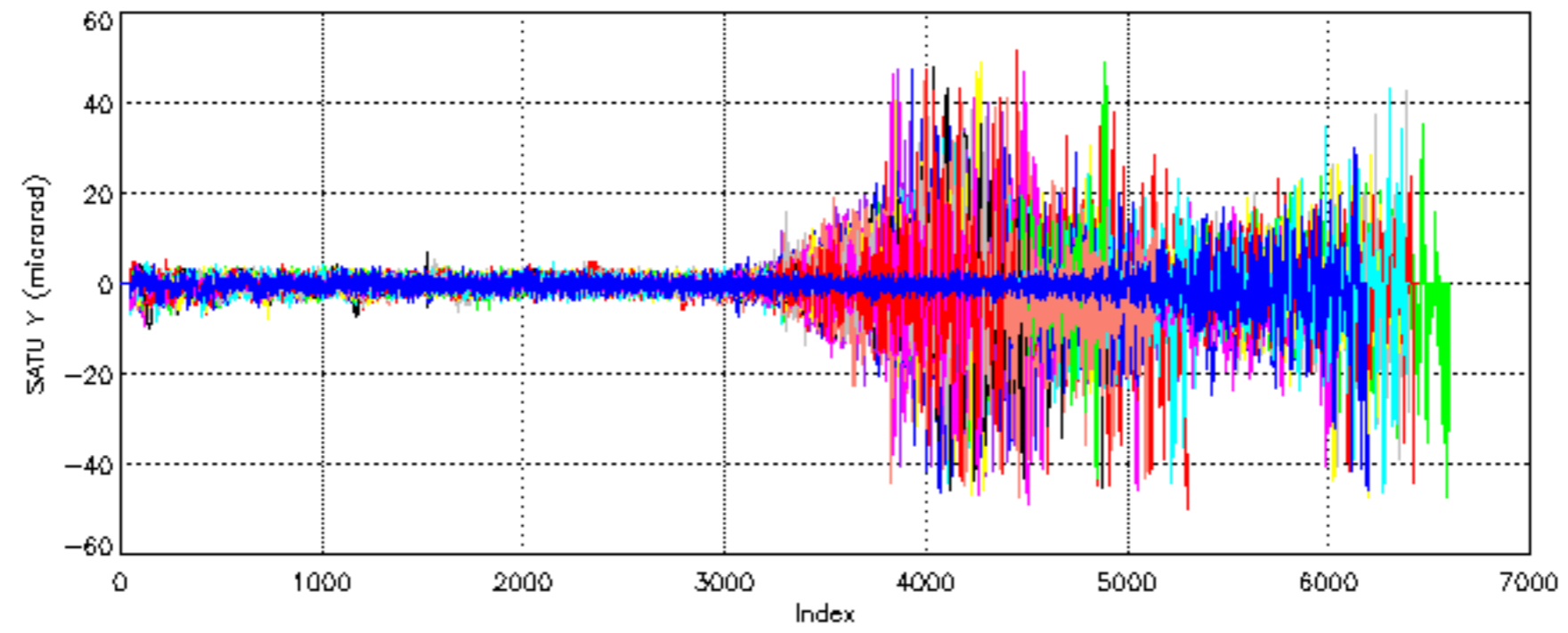
Tangent altitude at which the star is lost

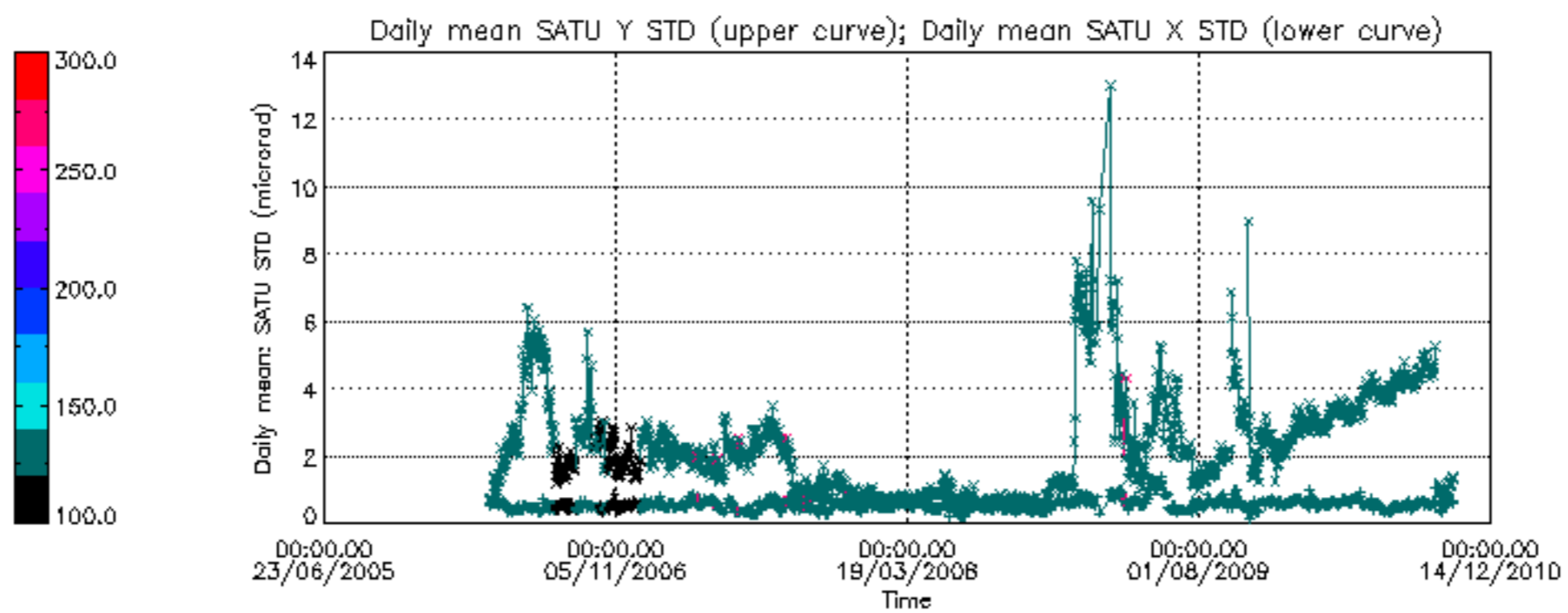


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_003829_000051292093_00245_44888_0965.N1

1; -452.2; 01-OCT-2010 00:38:29; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44888
 2; -204.7; 01-OCT-2010 00:42:36; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44888
 3; -44.1; 01-OCT-2010 00:45:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44888
 4; 168.4; 01-OCT-2010 00:48:49; Dark ; 53.5; 2; Alp Car ;-0.74; 7000;occ; 107; 0;44889
 5; 300.4; 01-OCT-2010 00:51:01; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44889
 6; 912.7; 01-OCT-2010 01:01:14; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44889
 7; 1556.6; 01-OCT-2010 01:11:57; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;44889
 8; 2185.8; 01-OCT-2010 01:22:27; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44889
 9; 2435.7; 01-OCT-2010 01:26:37; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44889
 10; 2662.3; 01-OCT-2010 01:30:23; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;44889
 11; 2951.5; 01-OCT-2010 01:35:12; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44889
 12; 3032.9; 01-OCT-2010 01:36:34; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44889
 13; 4512.1; 01-OCT-2010 02:01:13; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;44889
 14; 4600.3; 01-OCT-2010 02:02:41; Bright; 76.5; 17; 78Bet Gem ; 1.16; 4500;occ; 153; 0;44889

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_021202_000039472093_00246_44889_0966.N1

1; -875.0; 01-OCT-2010 02:12:02; Dark ; 38.0; 8; 10Alp CMi ; 0.40; 6500;occ; 76; 0;44889
 2; -451.6; 01-OCT-2010 02:19:05; Dark ; 48.5; 132; 15Rho Pup ; 2.80; 6900;occ; 97; 0;44889
 3; -203.5; 01-OCT-2010 02:23:13; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44889
 4; -43.4; 01-OCT-2010 02:25:53; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44889
 5; 169.1; 01-OCT-2010 02:29:26; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;44890
 6; 302.0; 01-OCT-2010 02:31:39; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44890
 7; 913.7; 01-OCT-2010 02:41:50; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44890
 8; 1557.0; 01-OCT-2010 02:52:34; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44890
 9; 2185.6; 01-OCT-2010 03:03:02; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44890
 10; 2435.4; 01-OCT-2010 03:07:12; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44890
 11; 2661.7; 01-OCT-2010 03:10:58; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;44890
 12; 2951.6; 01-OCT-2010 03:15:48; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44890
 13; 3032.4; 01-OCT-2010 03:17:09; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44890

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_034149_000045962093_00247_44890_0967.N1

1; -1523.7; 01-OCT-2010 03:41:49; Bright; 31.0; 24; 66Alp Gem ; 1.58; 10200;occ; 62; 0;44890
 2; -1435.2; 01-OCT-2010 03:43:18; Bright; 73.0; 17; 78Bet Gem ; 1.16; 4500;occ; 146; 0;44890
 3; -874.0; 01-OCT-2010 03:52:39; Dark ; 30.0; 8; 10Alp CMi ; 0.40; 6500;occ; 60; 0;44890
 4; -450.8; 01-OCT-2010 03:59:42; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44890
 5; -202.1; 01-OCT-2010 04:03:51; Dark ; 65.0; 37; 25Del CMA ; 1.83; 5900;occ; 130; 0;44890
 6; -42.6; 01-OCT-2010 04:06:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44890
 7; 169.8; 01-OCT-2010 04:10:03; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;44891
 8; 303.6; 01-OCT-2010 04:12:16; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44891
 9; 914.5; 01-OCT-2010 04:22:27; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44891
 10; 1557.3; 01-OCT-2010 04:33:10; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44891
 11; 2185.6; 01-OCT-2010 04:43:38; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44891
 12; 2435.5; 01-OCT-2010 04:47:48; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44891
 13; 2661.0; 01-OCT-2010 04:51:34; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44891
 14; 2951.5; 01-OCT-2010 04:56:24; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44891
 15; 3032.0; 01-OCT-2010 04:57:45; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44891

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1; -1523.5; 01-OCT-2010 05:22:25; Bright; 31.0; 24; 66Alp Gem ; 1.58; 10200;occ; 62; 0;44891
 2; -1435.0; 01-OCT-2010 05:23:54; Bright; 61.5; 17; 78Bet Gem ; 1.16; 4500;occ; 123; 0;44891
 3; -872.8; 01-OCT-2010 05:33:16; Dark ; 30.0; 8; 10Alp CMi ; 0.40; 6500;occ; 60; 0;44891
 4; -449.9; 01-OCT-2010 05:40:19; Dark ; 44.5; 132; 15Rho Pup ; 2.80; 6900;occ; 89; 0;44891
 5; -200.8; 01-OCT-2010 05:44:28; Dark ; 64.5; 37; 25Del CMA ; 1.83; 5900;occ; 129; 0;44891
 6; -41.9; 01-OCT-2010 05:47:07; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44891
 7; 170.7; 01-OCT-2010 05:50:39; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;44892
 8; 305.2; 01-OCT-2010 05:52:54; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44892
 9; 915.1; 01-OCT-2010 06:03:04; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44892
 10; 1557.4; 01-OCT-2010 06:13:46; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;44892
 11; 2185.4; 01-OCT-2010 06:24:14; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44892
 12; 2435.1; 01-OCT-2010 06:28:24; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44892
 13; 2660.4; 01-OCT-2010 06:32:09; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;44892
 14; 2951.2; 01-OCT-2010 06:37:00; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44892
 15; 3031.7; 01-OCT-2010 06:38:20; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44892

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 5; 171.4; 01-OCT-2010 07:31:16; Dark ; 60.0; 2; Alp Car ;-0.74; 7000;occ; 120; 0;44893
 6; 306.8; 01-OCT-2010 07:33:31; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44893

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3; 2659.8; 01-OCT-2010 08:12:44; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;44893
4; 2950.9; 01-OCT-2010 08:17:36; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44893
5; 3031.4; 01-OCT-2010 08:18:56; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44893
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7; 5587.7; 01-OCT-2010 09:01:32; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44893
8; 5837.5; 01-OCT-2010 09:05:42; Dark ; 58.0; 37; 25Del CMA ; 1.83; 5900;occ; 116; 0;44893
9; 5995.5; 01-OCT-2010 09:08:20; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44893
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11; 6344.2; 01-OCT-2010 09:14:09; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44894
12; 6952.4; 01-OCT-2010 09:24:17; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44894
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3; 2659.1; 01-OCT-2010 09:53:20; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;44894
4; 2950.6; 01-OCT-2010 09:58:11; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44894
5; 3031.0; 01-OCT-2010 09:59:32; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;44894
6; 4601.8; 01-OCT-2010 10:25:42; Bright; 61.0; 17; 78Bet Gem ; 1.16; 4500;occ; 122; 0;44894
7; 5588.4; 01-OCT-2010 10:42:09; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44894
8; 5838.8; 01-OCT-2010 10:46:19; Dark ; 58.0; 37; 25Del CMA ; 1.83; 5900;occ; 116; 0;44894
9; 5996.2; 01-OCT-2010 10:48:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44894
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12; 6953.1; 01-OCT-2010 11:04:54; Dark ; 48.0; 157; The1Eri ; 2.91; 9300;occ; 96; 0;44895
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3; 2432.4; 01-OCT-2010 21:33:44; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44901
4; 2654.2; 01-OCT-2010 21:37:26; Bright; 45.0; 53; 43Bet And ; 2.05; 3300;occ; 90; 0;44901
5; 2948.9; 01-OCT-2010 21:42:21; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44901
6; 3028.2; 01-OCT-2010 21:43:40; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;44901
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3; 93.8; 01-OCT-2010 22:35:22; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;44902
4; 177.9; 01-OCT-2010 22:36:46; Dark ; 56.5; 2; Alp Car ;-0.74; 7000;occ; 113; 0;44902
5; 320.3; 01-OCT-2010 22:39:08; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44902
6; 922.1; 01-OCT-2010 22:49:10; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;44902
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8; 2183.4; 01-OCT-2010 23:10:11; Bright; 40.0; 140; 88Gam Peg ; 2.83; 26000;occ; 80; 0;44902
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12; 3027.8; 01-OCT-2010 23:24:16; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44902
13; 4603.8; 01-OCT-2010 23:50:32; Bright; 62.0; 17; 78Bet Gem ; 1.16; 4500;occ; 124; 0;44902
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3; 2658.4; 01-OCT-2010 11:33:55; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;44895
4; 2950.3; 01-OCT-2010 11:38:47; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44895
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6; 4602.0; 01-OCT-2010 12:06:18; Bright; 71.5; 17; 78Bet Gem ; 1.16; 4500;occ; 143; 0;44895
7; 5589.3; 01-OCT-2010 12:22:46; Dark ; 47.5; 132; 15Rho Pup ; 2.80; 6900;occ; 95; 0;44895
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9; 5996.9; 01-OCT-2010 12:29:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44895
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12; 6347.2; 01-OCT-2010 12:35:24; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44895
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4; 2657.7; 01-OCT-2010 13:14:30; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;44896
5; 2950.1; 01-OCT-2010 13:19:22; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;44896
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9; 5842.7; 01-OCT-2010 15:48:11; Dark ; 65.0; 37; 25Del CMA ; 1.83; 5900;occ; 130; 0;44897
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9; 5862.1; 02-OCT-2010 16:57:29; Dark ; 64.0; 37; 25Del CMA ; 1.83; 5900;occ; 128; 0;44912
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 6; 2945.7; 02-OCT-2010 19:30:05; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44914
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 6; 344.7; 03-OCT-2010 01:29:07; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44918
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16; 8463.6; 03-OCT-2010 03:44:26; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44918
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3; 5609.7; 03-OCT-2010 04:37:28; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44919
4; 5871.4; 03-OCT-2010 04:41:50; Dark ; 60.5; 37; 25Del CMA ; 1.83; 5900;occ; 121; 0;44919
5; 6015.2; 03-OCT-2010 04:44:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44919
6; 6143.5; 03-OCT-2010 04:46:22; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;44919
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13; 8677.7; 03-OCT-2010 05:28:36; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;44919
14; 8980.3; 03-OCT-2010 05:33:39; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;44919
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7; 3017.8; 03-OCT-2010 20:40:15; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44929
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7; 3196.4; 06-OCT-2010 17:27:46; Bright; 50.5; 160; 23Gam Per ; 2.93; 4700;occ; 101; 0;44970
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9; 5695.4; 09-OCT-2010 09:52:10; Dark ; 49.0; 132; 15Rho Pup ; 2.80; 6900;occ; 98; 0;45008
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 7; 4625.8; 13-OCT-2010 17:31:27; Bright; 41.5; 166; 17Eps Leo ; 2.98; 6000;occ; 83; 0;45070
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13; 6347.1; 13-OCT-2010 18:00:08; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;45070
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 4; 2677.6; 13-OCT-2010 18:39:35; Bright; 47.5; 173; 4Bet Tri ; 3.00; 8900;occ; 95; 0;45071
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 9; 5252.2; 13-OCT-2010 19:22:29; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;45071
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11; 5956.6; 13-OCT-2010 19:34:14; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;45071
12; 6140.1; 13-OCT-2010 19:37:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45071
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 5; 232.5; 14-OCT-2010 00:41:13; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;45075
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 7; 581.9; 14-OCT-2010 00:47:03; Dark ; 61.5; 108; Alp Col ; 2.65; 15200;occ; 123; 0;45075
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 3; -75.7; 14-OCT-2010 02:16:41; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;45075
 4; 107.6; 14-OCT-2010 02:19:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45076
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 6; 315.0; 14-OCT-2010 02:23:11; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;45076
 7; 583.6; 14-OCT-2010 02:27:40; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;45076
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 11; 2673.6; 14-OCT-2010 03:02:30; Bright; 49.0; 173; 4Bet Tri ; 3.00; 8900;occ; 98; 0;45076
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 5; 108.5; 14-OCT-2010 04:00:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45077
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 7; 315.9; 14-OCT-2010 04:03:48; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;45077
 8; 584.9; 14-OCT-2010 04:08:17; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;45077
 9; 1030.9; 14-OCT-2010 04:15:43; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;45077
 10; 2365.7; 14-OCT-2010 04:37:58; Bright; 49.0; 105; 6Bet Ari ; 2.64; 8900;occ; 98; 0;45077
 11; 2564.0; 14-OCT-2010 04:41:16; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;45077
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 13; 2782.3; 14-OCT-2010 04:44:55; Bright; 49.0; 73; 57Gam1And ; 2.26; 13100;occ; 98; 0;45077
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 5; 109.4; 14-OCT-2010 05:40:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45078
 6; 235.2; 14-OCT-2010 05:43:04; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;45078
 7; 316.7; 14-OCT-2010 05:44:25; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;45078
 8; 586.4; 14-OCT-2010 05:48:55; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;45078
 9; 1031.3; 14-OCT-2010 05:56:20; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;45078
 10; 2364.9; 14-OCT-2010 06:18:33; Bright; 48.5; 105; 6Bet Ari ; 2.64; 8900;occ; 97; 0;45078
 11; 2563.4; 14-OCT-2010 06:21:52; Bright; 43.0; 53; 43Bet And ; 2.05; 3300;occ; 86; 0;45078
 12; 2672.1; 14-OCT-2010 06:23:41; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;45078
 13; 2781.4; 14-OCT-2010 06:25:30; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;45078
 14; 2973.4; 14-OCT-2010 06:28:42; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;45078
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 3; 2560.3; 14-OCT-2010 21:27:12; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;45087
 4; 2665.3; 14-OCT-2010 21:28:57; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;45087
 5; 2775.4; 14-OCT-2010 21:30:47; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;45087
 6; 2971.1; 14-OCT-2010 21:34:03; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;45087
 7; 3095.8; 14-OCT-2010 21:36:08; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;45087
 8; 4630.0; 14-OCT-2010 22:01:42; Bright; 42.5; 166; 17Eps Leo ; 2.98; 6000;occ; 85; 0;45087
 9; 4824.7; 14-OCT-2010 22:04:56; Bright; 39.0; 22; 32Alp Leo ; 1.36; 15200;occ; 78; 0;45087
 10; 5262.6; 14-OCT-2010 22:12:14; Dark ; 1.5; 48; 30Alp Hya ; 1.98; 4100;occ; 3; 0;45087

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 4; 119.1; 15-OCT-2010 00:07:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45089
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 6; 325.5; 15-OCT-2010 00:11:09; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;45089
 7; 602.3; 15-OCT-2010 00:15:46; Dark ; 25.0; 108; Alp Col ; 2.65; 15200;occ; 50; 0;45089
 8; 1037.2; 15-OCT-2010 00:23:01; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;45089
 9; 2358.4; 15-OCT-2010 00:45:02; Bright; 46.5; 105; 6Bet Ari ; 2.64; 8900;occ; 93; 0;45089

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13; 2970.5; 15-OCT-2010 00:55:14; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;45089
14; 3094.1; 15-OCT-2010 00:57:17; Bright; 47.5; 160; 23Gam Per ; 2.93; 4700;occ; 95; 0;45089
15; 4630.4; 15-OCT-2010 01:22:54; Bright; 55.5; 166; 17Eps Leo ; 2.98; 6000;occ; 111; 0;45089
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 3; 318.4; 14-OCT-2010 09:05:39; Dark ; 60.0; 2; Alp Car ; -0.74; 7000;occ; 120; 0;45080
 4; 589.4; 14-OCT-2010 09:10:10; Dark ; 28.0; 108; Alp Col ; 2.65; 15200;occ; 56; 0;45080
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 9; 5257.9; 14-OCT-2010 10:27:58; Dark ; 52.5; 48; 30Alp Hya ; 1.98; 4100;occ; 105; 0;45080
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11; 6019.3; 14-OCT-2010 10:40:40; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;45080
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2; -1199.7; 17-OCT-2010 07:05:29; Bright; 40.5; 22; 32Alp Leo ; 1.36; 15200;occ; 81; 0;45121
3; -749.7; 17-OCT-2010 07:12:59; Dark ; 53.5; 48; 30Alp Hya ; 1.98; 4100;occ; 107; 0;45121
4; -204.3; 17-OCT-2010 07:22:04; Dark ; 52.5; 132; 15Rho Pup ; 2.80; 6900;occ; 105; 0;45121
5; -32.4; 17-OCT-2010 07:24:56; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;45121
6; 148.5; 17-OCT-2010 07:27:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45122
7; 352.7; 17-OCT-2010 07:31:21; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;45122
8; 1053.8; 17-OCT-2010 07:43:02; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;45122
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2; 2549.0; 17-OCT-2010 08:07:58; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;45122
3; 2640.4; 17-OCT-2010 08:09:29; Bright; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;45122
4; 2753.3; 17-OCT-2010 08:11:22; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;45122
5; 2982.0; 17-OCT-2010 08:15:11; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;45122
6; 3068.6; 17-OCT-2010 08:16:37; Bright; 47.5; 160; 23Gam Per ; 2.93; 4700;occ; 95; 0;45122
7; 4639.0; 17-OCT-2010 08:42:48; Bright; 50.0; 166; 17Eps Leo ; 2.98; 6000;occ; 100; 0;45122
8; 4836.7; 17-OCT-2010 08:46:05; Bright; 58.0; 22; 32Alp Leo ; 1.36; 15200;occ; 116; 0;45122
9; 5287.0; 17-OCT-2010 08:53:36; Dark ; 52.5; 48; 30Alp Hya ; 1.98; 4100;occ; 105; 0;45122

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12; 6185.2; 17-OCT-2010 09:08:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45122
13; 6389.3; 17-OCT-2010 09:11:58; Dark ; 62.0; 2; Alp Car ; -0.74; 7000;occ; 124; 0;45122
14; 7090.1; 17-OCT-2010 09:23:39; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;45122
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 3; 2639.7; 17-OCT-2010 09:50:04; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;45123
 4; 2752.8; 17-OCT-2010 09:51:57; Bright; 47.0; 73; 57Gam1And ; 2.26; 13100;occ; 94; 0;45123
 5; 2981.6; 17-OCT-2010 09:55:46; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;45123
 6; 3068.0; 17-OCT-2010 09:57:12; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;45123
 7; 4639.1; 17-OCT-2010 10:23:24; Bright; 41.0; 166; 17Eps Leo ; 2.98; 6000;occ; 82; 0;45123
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 9; 5287.7; 17-OCT-2010 10:34:12; Dark ; 49.0; 48; 30Alp Hya ; 1.98; 4100;occ; 98; 0;45123
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12; 6186.1; 17-OCT-2010 10:49:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45123
13; 6390.1; 17-OCT-2010 10:52:35; Dark ; 60.5; 2; Alp Car ; -0.74; 7000;occ; 121; 0;45123
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 3; 2639.0; 17-OCT-2010 11:30:39; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;45124
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 5; 2981.2; 17-OCT-2010 11:36:22; Bright; 39.5; 110; 37Del Cas ; 2.68; 8900;occ; 79; 0;45124
 6; 3067.1; 17-OCT-2010 11:37:47; Bright; 47.0; 160; 23Gam Per ; 2.93; 4700;occ; 94; 0;45124
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 8; 4837.5; 17-OCT-2010 12:07:18; Bright; 42.0; 22; 32Alp Leo ; 1.36; 15200;occ; 84; 0;45124
 9; 5288.4; 17-OCT-2010 12:14:49; Dark ; 52.0; 48; 30Alp Hya ; 1.98; 4100;occ; 104; 0;45124
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11; 6006.3; 17-OCT-2010 12:26:47; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;45124
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13; 6390.8; 17-OCT-2010 12:33:11; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;45124
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 3; 2638.3; 17-OCT-2010 13:11:15; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;45125
 4; 2751.6; 17-OCT-2010 13:13:08; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;45125
 5; 2981.1; 17-OCT-2010 13:16:57; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;45125
 6; 3066.4; 17-OCT-2010 13:18:23; Bright; 47.0; 160; 23Gam Per ; 2.93; 4700;occ; 94; 0;45125
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 9; 5289.2; 17-OCT-2010 13:55:25; Dark ; 54.0; 48; 30Alp Hya ; 1.98; 4100;occ; 108; 0;45125
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11; 6007.3; 17-OCT-2010 14:07:24; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;45125
12; 6187.9; 17-OCT-2010 14:10:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45125
13; 6391.7; 17-OCT-2010 14:13:48; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;45125
14; 7091.8; 17-OCT-2010 14:25:28; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;45125
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 3; 2637.8; 17-OCT-2010 14:51:50; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;45126
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 5; 2980.8; 17-OCT-2010 14:57:33; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;45126
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 9; 5290.1; 17-OCT-2010 15:36:02; Dark ; 54.0; 48; 30Alp Hya ; 1.98; 4100;occ; 108; 0;45126
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 9; 5310.8; 19-OCT-2010 12:52:33; Dark ; 54.0; 48; 30Alp Hya ; 1.98; 4100;occ; 108; 0;45153
 10; 5876.3; 19-OCT-2010 13:01:58; Dark ; 56.0; 132; 15Rho Pup ; 2.80; 6900;occ; 112; 0;45153
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 3; 2892.8; 19-OCT-2010 13:52:50; Bright; 37.0; 79; 26Bet Per ; 2.31; 13100;occ; 74; 0;45154
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 5; 3060.8; 19-OCT-2010 13:55:38; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;45154
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 10; 6076.1; 19-OCT-2010 14:45:54; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;45154
 11; 6214.3; 19-OCT-2010 14:48:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45154
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 3; 2891.7; 19-OCT-2010 15:33:25; Bright; 37.0; 79; 26Bet Per ; 2.31; 13100;occ; 74; 0;45155
 4; 2973.0; 19-OCT-2010 15:34:47; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;45155
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 6; 4647.9; 19-OCT-2010 16:02:41; Bright; 44.0; 166; 17Eps Leo ; 2.98; 6000;occ; 88; 0;45155
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 8; 5312.5; 19-OCT-2010 16:13:46; Dark ; 54.5; 48; 30Alp Hya ; 1.98; 4100;occ; 109; 0;45155
 9; 5879.2; 19-OCT-2010 16:23:13; Dark ; 56.0; 132; 15Rho Pup ; 2.80; 6900;occ; 112; 0;45155
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 6; 2972.5; 19-OCT-2010 17:15:22; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;45156
 7; 3058.9; 19-OCT-2010 17:16:48; Bright; 53.5; 35; 33Alp Per ; 1.79; 6250;occ; 107; 0;45156
 8; 4648.3; 19-OCT-2010 17:43:18; Bright; 60.0; 166; 17Eps Leo ; 2.98; 6000;occ; 120; 0;45156
 9; 4849.5; 19-OCT-2010 17:46:39; Bright; 60.0; 22; 32Alp Leo ; 1.36; 15200;occ; 120; 0;45156
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 11; 5880.8; 19-OCT-2010 18:03:50; Dark ; 54.0; 132; 15Rho Pup ; 2.80; 6900;occ; 108; 0;45156
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 13; 6216.2; 19-OCT-2010 18:09:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45156
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 3; 2539.5; 19-OCT-2010 18:48:45; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 79; 0;45157
 4; 2733.4; 19-OCT-2010 18:51:59; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;45157
 5; 2889.9; 19-OCT-2010 18:54:35; Bright; 42.0; 79; 26Bet Per ; 2.31; 13100;occ; 84; 0;45157
 6; 2972.2; 19-OCT-2010 18:55:58; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;45157
 7; 3058.0; 19-OCT-2010 18:57:24; Bright; 50.0; 35; 33Alp Per ; 1.79; 6250;occ; 100; 0;45157
 8; 4648.4; 19-OCT-2010 19:23:54; Bright; 45.0; 166; 17Eps Leo ; 2.98; 6000;occ; 90; 0;45157
 9; 4849.8; 19-OCT-2010 19:27:15; Bright; 40.5; 22; 32Alp Leo ; 1.36; 15200;occ; 81; 0;45157


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 3; 44.9; 20-OCT-2010 00:49:34; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;45161
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 6; 1072.1; 20-OCT-2010 01:06:41; Dark ; 42.0; 157; The1Eri ; 2.91; 9300;occ; 84; 0;45161
 7; 2322.7; 20-OCT-2010 01:27:32; Bright; 45.0; 105; 6Bet Ari ; 2.64; 8900;occ; 90; 0;45161
 8; 2538.1; 20-OCT-2010 01:31:07; Bright; 42.5; 53; 43Bet And ; 2.05; 3300;occ; 85; 0;45161
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 4; 45.7; 20-OCT-2010 02:30:11; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;45162
 5; 184.8; 20-OCT-2010 02:32:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45162
 6; 385.1; 20-OCT-2010 02:35:50; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;45162
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 8; 2322.2; 20-OCT-2010 03:08:07; Bright; 45.0; 105; 6Bet Ari ; 2.64; 8900;occ; 90; 0;45162
 9; 2537.8; 20-OCT-2010 03:11:43; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;45162
10; 2730.7; 20-OCT-2010 03:14:56; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;45162
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 4; 2863.1; 21-OCT-2010 16:10:18; Bright; 53.0; 79; 26Bet Per ; 2.31; 13100;occ; 106; 0;45184
 5; 3024.1; 21-OCT-2010 16:12:59; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;45184
 6; 4860.6; 21-OCT-2010 16:43:36; Bright; 42.5; 22; 32Alp Leo ; 1.36; 15200;occ; 85; 0;45184
 7; 5336.7; 21-OCT-2010 16:51:32; Dark ; 58.5; 48; 30Alp Hya ; 1.98; 4100;occ; 117; 0;45184
 8; 5922.5; 21-OCT-2010 17:01:17; Dark ; 58.0; 132; 15Rho Pup ; 2.80; 6900;occ; 116; 0;45184
 9; 6066.6; 21-OCT-2010 17:03:41; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;45184
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 3; 2532.8; 21-OCT-2010 17:45:24; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;45185
 4; 2719.0; 21-OCT-2010 17:48:30; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;45185
 5; 2862.1; 21-OCT-2010 17:50:53; Bright; 54.0; 79; 26Bet Per ; 2.31; 13100;occ; 108; 0;45185
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 7; 4861.1; 21-OCT-2010 18:24:12; Bright; 40.5; 22; 32Alp Leo ; 1.36; 15200;occ; 81; 0;45185
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