GOMOS Daily Report 14-APR-2011

Level 0 and Level 1 products

SUMMARY

1. General Info

2. Summary of products arrived in PCF (Product Control Facility)
   - 2.1 Level 0: products arrived in PCF during current month (see template here)
   - 2.2 Level 0: plot of mission plan versus production during reporting period
   - 2.3 Level 0: summary of missing occultations with respect to the plan
   - 2.4 Level 1: products arrived in PCF during reporting period

3. Plot of Spectrometers and Photometers temperatures

4. Dark Charge monitoring
   - 4.1 Products that did not use the Dark Sky Area observation for DC computation
   - 4.2 Plot of Dark Charge

5. Demodulation correction and quality product information monitoring
   - 5.1 Percentage of products with some flags set
   - 5.2 Plot of quality information per product (time dependant)
   - 5.3 Plot of quality information per product (world map)

6. Star tangent altitude lost
   - 6.1 Statistics on star tangent altitude lost
   - 6.2 Plot of star tangent altitude lost: DARK products
   - 6.3 Plot of star tangent altitude lost: BRIGHT products
   - 6.3 Plot of star tangent altitude lost: TWILIGHT products

7. Star Acquisition and Tracking Unit (SATU)
   - 7.1 SATU plots (dark limb): 'X' and 'Y' axis
   - 7.2 SATU Noise Equivalent Angle statistics
     - 7.2.1 SATU NEA Statistics (table)
       - 7.2.2 Daily SATU NEA STD (dark limb) - trend since 1st April 2006

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

Level 2 products

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1. General Info

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.

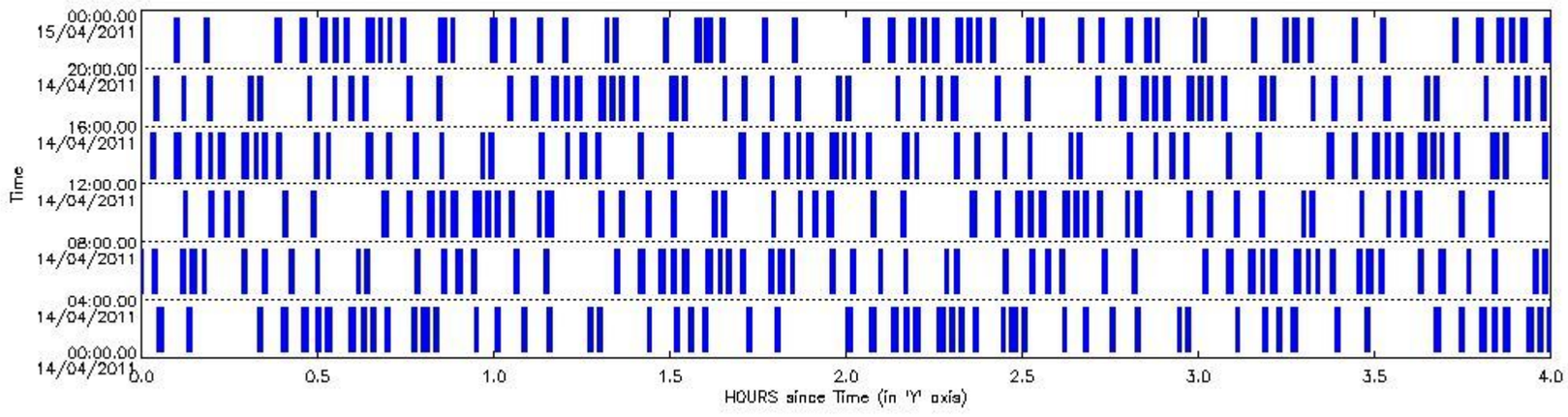
Item	Value
Time of report generation	17APR2011 11:01:48
Data source version	GOMOS/5.01
Start time of products	14APR2011 00:02:39
Stop time of products	14APR2011 23:58:48
Store outputs in DB	Yes
Nb of level 1b prods	321
Nb of prods with errors	5

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_1PNPDE20110414_000239_000000523101_00260_47688_5125.N1	14-APR-2011 00:02:39	Twilight	52.000	61	8Eps Peg	2.1000	3900.0	104	47688	No
2	GOM_TRA_1PNPDE20110414_000741_000000493101_00260_47688_5126.N1	14-APR-2011 00:07:41	Dark	48.500	154	22Bet Aqr	2.8990	5700.0	97	47688	No
3	GOM_TRA_1PNPDE20110414_002344_000000613101_00261_47689_5127.N1	14-APR-2011 00:23:44	Dark	61.000	103	38Zet Sgr	2.6000	9700.0	122	47689	No
4	GOM_TRA_1PNPDE20110414_002719_000000623101_00261_47689_5128.N1	14-APR-2011 00:27:19	Dark	62.000	38	20Eps Sgr	1.8360	11000.	124	47689	No
5	GOM_TRA_1PNPDE20110414_002933_000000463101_00261_47689_5129.N1	14-APR-2011 00:29:33	Dark	45.500	141	Bet Ara	2.8400	4600.0	91	47689	No
6	GOM_TRA_1PNPDE20110414_003118_000000693101_00261_47689_5130.N1	14-APR-2011 00:31:18	Dark	68.500	25	35Lam Sco	1.6200	28000.	137	47689	No
7	GOM_TRA_1PNPDE20110414_003516_000000643101_00261_47689_5131.N1	14-APR-2011 00:35:16	Straylight	64.000	75	26Eps Sco	2.2910	4250.0	128	47689	No
8	GOM_TRA_1PNPDE20110414_003721_000000453101_00261_47689_5132.N1	14-APR-2011 00:37:21	Straylight	45.000	78	Alp Lup	2.3040	28000.	90	47689	No
9	GOM_TRA_1PNPDE20110414_003857_000000463101_00261_47689_5133.N1	14-APR-2011 00:38:57	Straylight	45.500	81	Eta Cen	2.3560	28000.	91	47689	No
10	GOM_TRA_1PNPDE20110414_004120_000000493101_00261_47689_5134.N1	14-APR-2011 00:41:20	Straylight	48.500	54	5The Cen	2.0550	4500.0	97	47689	No
11	GOM_TRA_1PNPDE20110414_004605_000000463101_00261_47689_5135.N1	14-APR-2011 00:46:05	Twi_and_stray	45.500	169	46Gam Hya	2.9910	4700.0	91	47689	No
12	GOM_TRA_1PNPDE20110414_004739_000000763101_00261_47689_5136.N1	14-APR-2011 00:47:39	Bright	75.500	122	9Alp2Lib	2.7470	9700.0	151	47689	No

13	GOM_TRA_1PNPDE20110414_004945_000000473101_00261_47689_5137.N1	14-APR-2011 00:49:45	Bright	47.000	15	67Alp Vir	0.97600	28000.	94	47689	No
14	GOM_TRA_1PNPDE20110414_005637_000000403101_00261_47689_5138.N1	14-APR-2011 00:56:37	Bright	40.000	138	47Eps Vir	2.8280	4700.0	80	47689	No
15	GOM_TRA_1PNPDE20110414_010005_000000503101_00261_47689_5139.N1	14-APR-2011 01:00:05	Bright	49.500	111	8Eta Boo	2.6800	6000.0	99	47689	No
16	GOM_TRA_1PNPDE20110414_010444_000000533101_00261_47689_5140.N1	14-APR-2011 01:04:44	Bright	53.000	152	12Alp2CVn	2.8900	11000.	106	47689	No
17	GOM_TRA_1PNPDE20110414_010906_000000443101_00261_47689_5141.N1	14-APR-2011 01:09:06	Bright	43.500	39	85Eta UMa	1.8540	24000.	87	47689	No
18	GOM_TRA_1PNPDE20110414_011605_000000393101_00261_47689_5142.N1	14-APR-2011 01:16:05	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	47689	No
19	GOM_TRA_1PNPDE20110414_011736_000000483101_00261_47689_5143.N1	14-APR-2011 01:17:36	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	47689	No
20	GOM_TRA_1PNPDE20110414_012607_000000403101_00261_47689_5144.N1	14-APR-2011 01:26:07	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	47689	No
21	GOM_TRA_1PNPDE20110414_013036_000000513101_00261_47689_5145.N1	14-APR-2011 01:30:36	Bright	51.000	144	18Del Cyg	2.8600	11000.	102	47689	No
22	GOM_TRA_1PNPDE20110414_013306_000000553101_00261_47689_5146.N1	14-APR-2011 01:33:06	Bright	54.500	66	37Gam Cyg	2.2080	5900.0	109	47689	No
23	GOM_TRA_1PNPDE20110414_013535_000000523101_00261_47689_5147.N1	14-APR-2011 01:35:35	Bright	52.000	92	53Eps Cyg	2.5000	4500.0	104	47689	No
24	GOM_TRA_1PNPDE20110414_014254_000000523101_00261_47689_5148.N1	14-APR-2011 01:42:54	Twilight	51.500	61	8Eps Peg	2.1000	3900.0	103	47689	No
25	GOM_TRA_1PNPDE20110414_014755_000000503101_00261_47689_5151.N1	14-APR-2011 01:47:55	Dark	49.500	154	22Bet Aqr	2.8990	5700.0	99	47689	Yes
26	GOM_TRA_1PNPDE20110414_020400_000000613101_00262_47690_5152.N1	14-APR-2011 02:04:00	Dark	61.000	103	38Zet Sgr	2.6000	9700.0	122	47690	No
27	GOM_TRA_1PNPDE20110414_020735_000000633101_00262_47690_5153.N1	14-APR-2011 02:07:35	Dark	63.000	38	20Eps Sgr	1.8360	11000.	126	47690	No
28	GOM_TRA_1PNPDE20110414_020948_000000483101_00262_47690_5154.N1	14-APR-2011 02:09:48	Dark	47.500	141	Bet Ara	2.8400	4600.0	95	47690	No
29	GOM_TRA_1PNPDE20110414_021133_000000633101_00262_47690_5155.N1	14-APR-2011 02:11:33	Dark	63.000	25	35Lam Sco	1.6200	28000.	126	47690	No
30	GOM_TRA_1PNPDE20110414_021531_000000683101_00262_47690_5156.N1	14-APR-2011 02:15:31	Straylight	68.000	75	26Eps Sco	2.2910	4250.0	136	47690	No
31	GOM_TRA_1PNPDE20110414_021736_000000443101_00262_47690_5157.N1	14-APR-2011 02:17:36	Straylight	43.500	78	Alp Lup	2.3040	28000.	87	47690	No
32	GOM_TRA_1PNPDE20110414_021911_000000453101_00262_47690_5158.N1	14-APR-2011 02:19:11	Straylight	45.000	81	Eta Cen	2.3560	28000.	90	47690	No
33	GOM_TRA_1PNPDE20110414_022134_000000493101_00262_47690_5159.N1	14-APR-2011 02:21:34	Straylight	49.000	54	5The Cen	2.0550	4500.0	98	47690	No
34	GOM_TRA_1PNPDE20110414_022619_000000463101_00262_47690_5160.N1	14-APR-2011 02:26:19	Twi_and_stray	45.500	169	46Gam Hya	2.9910	4700.0	91	47690	No
35	GOM_TRA_1PNPDE20110414_022753_000000653101_00262_47690_5161.N1	14-APR-2011 02:27:53	Bright	65.000	122	9Alp2Lib	2.7470	9700.0	130	47690	No
36	GOM_TRA_1PNPDE20110414_022959_000000473101_00262_47690_5162.N1	14-APR-2011 02:29:59	Bright	46.500	15	67Alp Vir	0.97600	28000.	93	47690	No
37	GOM_TRA_1PNPDE20110414_023650_000000413101_00262_47690_5163.N1	14-APR-2011 02:36:50	Bright	40.500	138	47Eps Vir	2.8280	4700.0	81	47690	No
38	GOM_TRA_1PNPDE20110414_024019_000000473101_00262_47690_5164.N1	14-APR-2011 02:40:19	Bright	46.500	111	8Eta Boo	2.6800	6000.0	93	47690	No
39	GOM_TRA_1PNPDE20110414_024458_000000403101_00262_47690_5165.N1	14-APR-2011 02:44:58	Bright	39.500	152	12Alp2CVn	2.8900	11000.	79	47690	No
40	GOM_TRA_1PNPDE20110414_024919_000000443101_00262_47690_5166.N1	14-APR-2011 02:49:19	Bright	43.500	39	85Eta UMa	1.8540	24000.	87	47690	No
41	GOM_TRA_1PNPDE20110414_025619_000000423101_00262_47690_5167.N1	14-APR-2011 02:56:19	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	47690	No
42	GOM_TRA_1PNPDE20110414_025750_000000473101_00262_47690_5168.N1	14-APR-2011 02:57:50	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	47690	No
43	GOM_TRA_1PNPDE20110414_030620_000000393101_00262_47690_5179.N1	14-APR-2011 03:06:20	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	47690	No
44	GOM_TRA_1PNPDE20110414_031050_000000473101_00262_47690_5180.N1	14-APR-2011 03:10:50	Bright	47.000	144	18Del Cyg	2.8600	11000.	94	47690	No
45	GOM_TRA_1PNPDE20110414_031320_000000553101_00262_47690_5181.N1	14-APR-2011 03:13:20	Bright	54.500	66	37Gam Cyg	2.2080	5900.0	109	47690	No
46	GOM_TRA_1PNPDE20110414_031549_000000523101_00262_47690_5182.N1	14-APR-2011 03:15:49	Bright	52.000	92	53Eps Cyg	2.5000	4500.0	104	47690	No
47	GOM_TRA_1PNPDE20110414_032308_000000513101_00262_47690_5183.N1	14-APR-2011 03:23:08	Twilight	50.500	61	8Eps Peg	2.1000	3900.0	101	47690	No
48	GOM_TRA_1PNPDE20110414_032810_000000503101_00262_47690_5184.N1	14-APR-2011 03:28:10	Dark	49.500	154	22Bet Aqr	2.8990	5700.0	99	47690	No
49	GOM_TRA_1PNPDE20110414_034415_000000623101_00263_47691_5185.N1	14-APR-2011 03:44:15	Dark	61.500	103	38Zet Sgr	2.6000	9700.0	123	47691	No
50	GOM_TRA_1PNPDE20110414_034750_000000643101_00263_47691_5186.N1	14-APR-2011 03:47:50	Dark	63.500	38	20Eps Sgr	1.8360	11000.	127	47691	No
51	GOM_TRA_1PNPDE20110414_035003_000000443101_00263_47691_5187.N1	14-APR-2011 03:50:03	Dark	44.000	141	Bet Ara	2.8400	4600.0	88	47691	No
52	GOM_TRA_1PNPDE20110414_035148_000000633101_00263_47691_5188.N1	14-APR-2011 03:51:48	Dark	63.000	25	35Lam Sco	1.6200	28000.	126	47691	No
53	GOM_TRA_1PNPDE20110414_035546_000000683101_00263_47691_5189.N1	14-APR-2011 03:55:46	Straylight	68.000	75	26Eps Sco	2.2910	4250.0	136	47691	No
54	GOM_TRA_1PNPDE20110414_035750_000000443101_00263_47691_5190.N1	14-APR-2011 03:57:50	Straylight	43.500	78	Alp Lup	2.3040	28000.	87	47691	No
55	GOM_TRA_1PNPDE20110414_035926_000000463101_00263_47691_5191.N1	14-APR-2011 03:59:26	Straylight	46.000	81	Eta Cen	2.3560	28000.	92	47691	No
56	GOM_TRA_1PNPDE20110414_040149_000000483101_00263_47691_5192.N1	14-APR-2011 04:01:49	Straylight	48.000	54	5The Cen	2.0550	4500.0	96	47691	No
57	GOM_TRA_1PNPDE20110414_040634_000000443101_00263_47691_5193.N1	14-APR-2011 04:06:34	Twi_and_stray	43.500	169	46Gam Hya	2.9910	4700.0	87	47691	No
58	GOM_TRA_1PNPDE20110414_040808_000000703101_00263_47691_5194.N1	14-APR-2011 04:08:08	Bright	70.000	122	9Alp2Lib	2.7470	9700.0	140	47691	No
59	GOM_TRA_1PNPDE20110414_041013_000000463101_00263_47691_5195.N1	14-APR-2011 04:10:13	Bright	45.500	15	67Alp Vir	0.97600	28000.	91	47691	No
60	GOM_TRA_1PNPDE20110414_041704_000000403101_00263_47691_5196.N1	14-APR-2011 04:17:04	Bright	39.500	138	47Eps Vir	2.8280	4700.0	79	47691	No
61	GOM_TRA_1PNPDE20110414_042032_000000483101_00263_47691_5197.N1	14-APR-2011 04:20:32	Bright	47.500	111	8Eta Boo	2.6800	6000.0	95	47691	No
62	GOM_TRA_1PNPDE20110414_042511_000000403101_00263_47691_5198.N1	14-APR-2011 04:25:11	Bright	40.000	152	12Alp2CVn	2.8900	11000.	80	47691	No
63	GOM_TRA_1PNPDE20110414_042933_000000433101_00263_47691_5199.N1	14-APR-2011 04:29:33	Bright	42.500	39	85Eta UMa	1.8540	24000.	85	47691	No
64	GOM_TRA_1PNPDE20110414_043633_000000413101_00263_47691_5200.N1	14-APR-2011 04:36:33	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47691	No
65	GOM_TRA_1PNPDE20110414_043803_000000473101_00263_47691_5201.N1	14-APR-2011 04:38:03	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	47691	No
66	GOM_TRA_1PNPDE20110414_044635_000000373101_00263_47691_5203.N1	14-APR-2011 04:46:35	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	47691	No
67	GOM_TRA_1PNPDE20110414_045104_000000473101_00263_47691_5204.N1	14-APR-2011 04:51:04	Bright	47.000	144	18Del Cyg	2.8600	11000.	94	47691	No
68	GOM_TRA_1PNPDE20110414_045334_000000543101_00263_47691_5205.N1	14-APR-2011 04:53:34	Bright	54.000	66	37Gam Cyg	2.2080	5900.0	108	47691	No
69	GOM_TRA_1PNPDE20110414_045603_000000543101_00263_47691_5206.N1	14-APR-2011 04:56:03	Bright	53.500	92	53Eps Cyg	2.5000	4500.0	107	47691	No
70	GOM_TRA_1PNPDE20110414_050323_000000513101_00263_47691_5207.N1	14-APR-2011 05:03:23	Twilight	50.500	61	8Eps Peg	2.1000	3900.0	101	47691	No
71	GOM_TRA_1PNPDE20110414_050825_000000463101_00263_47691_5208.N1	14-APR-2011 05:08:25	Dark	45.500	154	22Bet Aqr	2.8990	5700.0	91	47691	No

72	GOM_TRA_1PNPDE20110414_052431_000000623101_00264_47692_5209.N1	14-APR-2011 05:24:31	Dark	61.500	103	38Zet Sgr	2.6000	9700.0	123	47692	No
73	GOM_TRA_1PNPDE20110414_052806_000000633101_00264_47692_5210.N1	14-APR-2011 05:28:06	Dark	63.000	38	20Eps Sgr	1.8360	11000.	126	47692	No
74	GOM_TRA_1PNPDE20110414_053018_000000423101_00264_47692_5211.N1	14-APR-2011 05:30:18	Dark	41.500	141	Bet Ara	2.8400	4600.0	83	47692	No
75	GOM_TRA_1PNPDE20110414_053204_000000653101_00264_47692_5212.N1	14-APR-2011 05:32:04	Dark	65.000	25	35Lam Sco	1.6200	28000.	130	47692	No
76	GOM_TRA_1PNPDE20110414_053601_000000693101_00264_47692_5213.N1	14-APR-2011 05:36:01	Straylight	69.000	75	26Eps Sco	2.2910	4250.0	138	47692	No
77	GOM_TRA_1PNPDE20110414_053805_000000443101_00264_47692_5214.N1	14-APR-2011 05:38:05	Straylight	44.000	78	Alp Lup	2.3040	28000.	88	47692	No
78	GOM_TRA_1PNPDE20110414_053940_000000423101_00264_47692_5215.N1	14-APR-2011 05:39:40	Straylight	42.000	81	Eta Cen	2.3560	28000.	84	47692	No
79	GOM_TRA_1PNPDE20110414_054203_000000503101_00264_47692_5216.N1	14-APR-2011 05:42:03	Straylight	50.000	54	5The Cen	2.0550	4500.0	100	47692	No
80	GOM_TRA_1PNPDE20110414_054648_000000443101_00264_47692_5217.N1	14-APR-2011 05:46:48	Twi_and_stray	44.000	169	46Gam Hya	2.9910	4700.0	88	47692	No
81	GOM_TRA_1PNPDE20110414_054822_000000663101_00264_47692_5218.N1	14-APR-2011 05:48:22	Bright	65.500	122	9Alp2Lib	2.7470	9700.0	131	47692	No
82	GOM_TRA_1PNPDE20110414_055027_000000443101_00264_47692_5219.N1	14-APR-2011 05:50:27	Bright	44.000	15	67Alp Vir	0.97600	28000.	88	47692	No
83	GOM_TRA_1PNPDE20110414_055718_000000413101_00264_47692_5220.N1	14-APR-2011 05:57:18	Bright	41.000	138	47Eps Vir	2.8280	4700.0	82	47692	No
84	GOM_TRA_1PNPDE20110414_060045_000000503101_00264_47692_5221.N1	14-APR-2011 06:00:45	Bright	49.500	111	8Eta Boo	2.6800	6000.0	99	47692	No
85	GOM_TRA_1PNPDE20110414_060525_000000383101_00264_47692_5222.N1	14-APR-2011 06:05:25	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	47692	No
86	GOM_TRA_1PNPDE20110414_060946_000000413101_00264_47692_5223.N1	14-APR-2011 06:09:46	Bright	40.500	39	85Eta UMa	1.8540	24000.	81	47692	No
87	GOM_TRA_1PNPDE20110414_061646_000000403101_00264_47692_5224.N1	14-APR-2011 06:16:46	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	47692	No
88	GOM_TRA_1PNPDE20110414_061816_000000483101_00264_47692_5225.N1	14-APR-2011 06:18:16	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	47692	No
89	GOM_TRA_1PNPDK20110414_062648_000000413101_00264_47692_3808.N1	14-APR-2011 06:26:48	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	47692	No
90	GOM_TRA_1PNPDK20110414_063117_000000423101_00264_47692_3809.N1	14-APR-2011 06:31:17	Bright	42.000	144	18Del Cyg	2.8600	11000.	84	47692	No
91	GOM_TRA_1PNPDK20110414_063348_000000553101_00264_47692_3810.N1	14-APR-2011 06:33:48	Bright	55.000	66	37Gam Cyg	2.2080	5900.0	110	47692	No
92	GOM_TRA_1PNPDK20110414_063617_000000563101_00264_47692_3811.N1	14-APR-2011 06:36:17	Bright	56.000	92	53Eps Cyg	2.5000	4500.0	112	47692	No
93	GOM_TRA_1PNPDK20110414_064337_000000533101_00264_47692_3812.N1	14-APR-2011 06:43:37	Twilight	52.500	61	8Eps Peg	2.1000	3900.0	105	47692	No
94	GOM_TRA_1PNPDK20110414_064840_000000483101_00264_47692_3813.N1	14-APR-2011 06:48:40	Dark	48.000	154	22Bet Aqr	2.8990	5700.0	96	47692	No
95	GOM_TRA_1PNPDK20110414_070446_000000623101_00265_47693_3814.N1	14-APR-2011 07:04:46	Dark	61.500	103	38Zet Sgr	2.6000	9700.0	123	47693	No
96	GOM_TRA_1PNPDK20110414_070821_000000673101_00265_47693_3815.N1	14-APR-2011 07:08:21	Dark	66.500	38	20Eps Sgr	1.8360	11000.	133	47693	No
97	GOM_TRA_1PNPDK20110414_071032_000000423101_00265_47693_3816.N1	14-APR-2011 07:10:32	Dark	41.500	141	Bet Ara	2.8400	4600.0	83	47693	No
98	GOM_TRA_1PNPDK20110414_071219_000000633101_00265_47693_3817.N1	14-APR-2011 07:12:19	Dark	62.500	25	35Lam Sco	1.6200	28000.	125	47693	No
99	GOM_TRA_1PNPDK20110414_071616_000000693101_00265_47693_3818.N1	14-APR-2011 07:16:16	Straylight	69.000	75	26Eps Sco	2.2910	4250.0	138	47693	No
100	GOM_TRA_1PNPDK20110414_071819_000000433101_00265_47693_3819.N1	14-APR-2011 07:18:19	Straylight	43.000	78	Alp Lup	2.3040	28000.	86	47693	No
101	GOM_TRA_1PNPDK20110414_071955_000000453101_00265_47693_3820.N1	14-APR-2011 07:19:55	Straylight	45.000	81	Eta Cen	2.3560	28000.	90	47693	No
102	GOM_TRA_1PNPDK20110414_072218_000000503101_00265_47693_3821.N1	14-APR-2011 07:22:18	Straylight	50.000	54	5The Cen	2.0550	4500.0	100	47693	No
103	GOM_TRA_1PNPDK20110414_072702_000000463101_00265_47693_3822.N1	14-APR-2011 07:27:02	Twi_and_stray	45.500	169	46Gam Hya	2.9910	4700.0	91	47693	No
104	GOM_TRA_1PNPDK20110414_072836_000000613101_00265_47693_3823.N1	14-APR-2011 07:28:36	Bright	60.500	122	9Alp2Lib	2.7470	9700.0	121	47693	No
105	GOM_TRA_1PNPDK20110414_073041_000000453101_00265_47693_3837.N1	14-APR-2011 07:30:41	Bright	45.000	15	67Alp Vir	0.97600	28000.	90	47693	Yes
106	GOM_TRA_1PNPDK20110414_073732_000000463101_00265_47693_3838.N1	14-APR-2011 07:37:32	Bright	45.500	138	47Eps Vir	2.8280	4700.0	91	47693	No
107	GOM_TRA_1PNPDK20110414_074059_000000563101_00265_47693_3839.N1	14-APR-2011 07:40:59	Bright	55.500	111	8Eta Boo	2.6800	6000.0	111	47693	No
108	GOM_TRA_1PNPDK20110414_074539_000000383101_00265_47693_3840.N1	14-APR-2011 07:45:39	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	47693	No
109	GOM_TRA_1PNPDK20110414_075000_000000443101_00265_47693_3841.N1	14-APR-2011 07:50:00	Bright	43.500	39	85Eta UMa	1.8540	24000.	87	47693	No
110	GOM_TRA_1PNPDK20110414_075700_000000413101_00265_47693_3842.N1	14-APR-2011 07:57:00	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47693	No
111	GOM_TRA_1PNPDK20110414_075830_000000473101_00265_47693_3843.N1	14-APR-2011 07:58:30	Bright	47.000	119	14Eta Dra	2.7270	4700.0	94	47693	No
112	GOM_TRA_1PNPDK20110414_080702_000000403101_00265_47693_3844.N1	14-APR-2011 08:07:02	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	47693	No
113	GOM_TRA_1PNPDK20110414_081131_000000423101_00265_47693_3845.N1	14-APR-2011 08:11:31	Bright	42.000	144	18Del Cyg	2.8600	11000.	84	47693	No
114	GOM_TRA_1PNPDK20110414_081401_000000543101_00265_47693_3846.N1	14-APR-2011 08:14:01	Bright	53.500	66	37Gam Cyg	2.2080	5900.0	107	47693	No
115	GOM_TRA_1PNPDK20110414_081632_000000553101_00265_47693_3847.N1	14-APR-2011 08:16:32	Bright	54.500	92	53Eps Cyg	2.5000	4500.0	109	47693	No
116	GOM_TRA_1PNPDK20110414_082352_000000493101_00265_47693_3848.N1	14-APR-2011 08:23:52	Twilight	48.500	61	8Eps Peg	2.1000	3900.0	97	47693	No
117	GOM_TRA_1PNPDK20110414_082854_000000493101_00265_47693_3849.N1	14-APR-2011 08:28:54	Dark	49.000	154	22Bet Aqr	2.8990	5700.0	98	47693	No
118	GOM_TRA_1PNPDK20110414_084502_000000623101_00266_47694_3850.N1	14-APR-2011 08:45:02	Dark	62.000	103	38Zet Sgr	2.6000	9700.0	124	47694	No
119	GOM_TRA_1PNPDK20110414_084837_000000633101_00266_47694_3851.N1	14-APR-2011 08:48:37	Dark	63.000	38	20Eps Sgr	1.8360	11000.	126	47694	No
120	GOM_TRA_1PNPDK20110414_085047_000000443101_00266_47694_3852.N1	14-APR-2011 08:50:47	Dark	43.500	141	Bet Ara	2.8400	4600.0	87	47694	No
121	GOM_TRA_1PNPDK20110414_085234_000000633101_00266_47694_3853.N1	14-APR-2011 08:52:34	Dark	62.500	25	35Lam Sco	1.6200	28000.	125	47694	No
122	GOM_TRA_1PNPDK20110414_085632_000000703101_00266_47694_3854.N1	14-APR-2011 08:56:32	Straylight	70.000	75	26Eps Sco	2.2910	4250.0	140	47694	No
123	GOM_TRA_1PNPDK20110414_085834_000000443101_00266_47694_3855.N1	14-APR-2011 08:58:34	Straylight	44.000	78	Alp Lup	2.3040	28000.	88	47694	No
124	GOM_TRA_1PNPDK20110414_090009_000000443101_00266_47694_3856.N1	14-APR-2011 09:00:09	Straylight	44.000	81	Eta Cen	2.3560	28000.	88	47694	No
125	GOM_TRA_1PNPDK20110414_090232_000000513101_00266_47694_3857.N1	14-APR-2011 09:02:32	Straylight	50.500	54	5The Cen	2.0550	4500.0	101	47694	No
126	GOM_TRA_1PNPDK20110414_090716_000000453101_00266_47694_3858.N1	14-APR-2011 09:07:16	Twi_and_stray	44.500	169	46Gam Hya	2.9910	4700.0	89	47694	No
127	GOM_TRA_1PNPDK20110414_090850_000000683101_00266_47694_3859.N1	14-APR-2011 09:08:50	Bright	67.500	122	9Alp2Lib	2.7470	9700.0	135	47694	No
128	GOM_TRA_1PNPDK20110414_091746_000000583101_00266_47694_3972.N1	14-APR-2011 09:17:46	Bright	58.000	138	47Eps Vir	2.8280	4700.0	116	47694	No
129	GOM_TRA_1PNPDK20110414_092113_000000493101_00266_47694_3973.N1	14-APR-2011 09:21:13	Bright	48.500	111	8Eta Boo	2.6800	6000.0	97	47694	No
130	GOM_TRA_1PNPDK20110414_092553_000000413101_00266_47694_3974.N1	14-APR-2011 09:25:53	Bright	41.000	152	12Alp2CVn	2.8900	11000.	82	47694	No

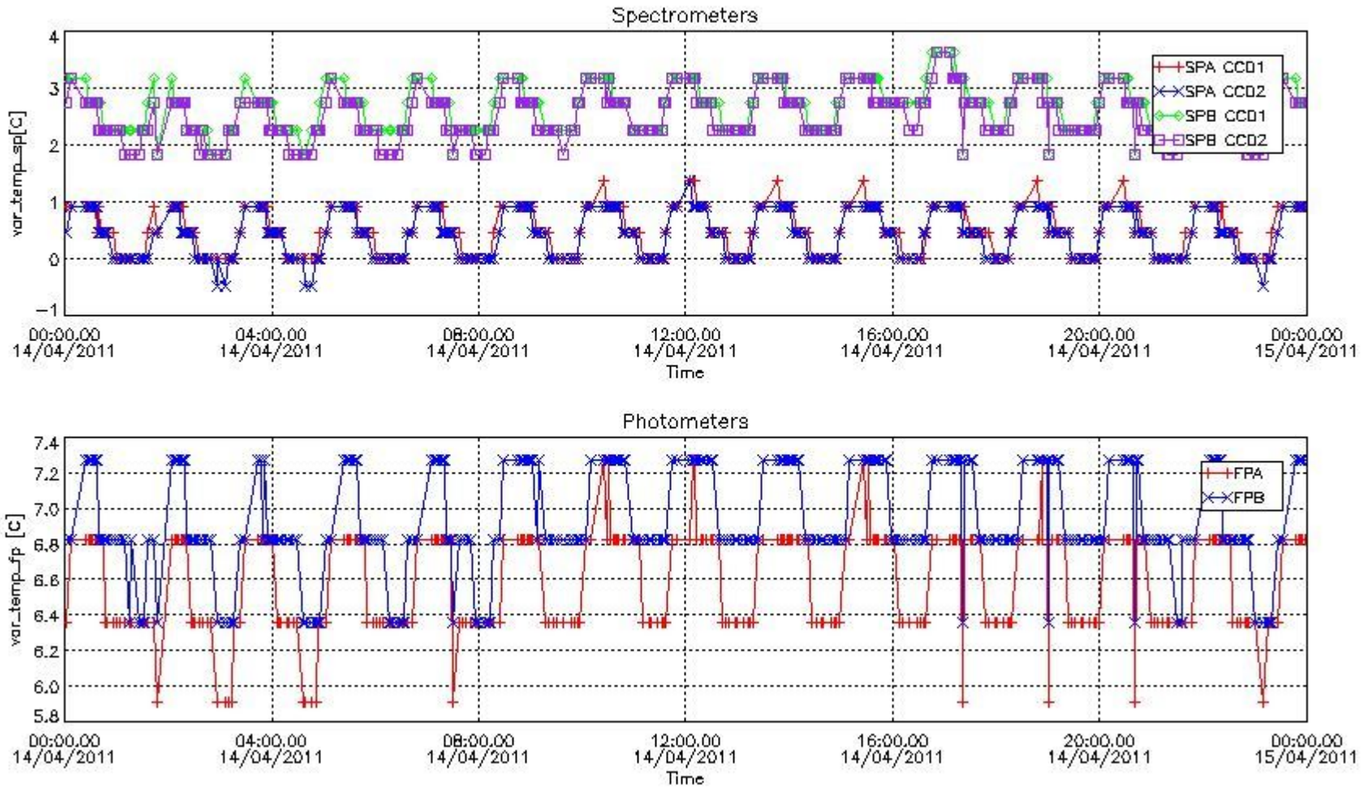
131	GOM_TRA_1PNPDK20110414_093013_000000433101_00266_47694_3975.N1	14-APR-2011 09:30:13	Bright	43.000	39	85Eta UMa	1.8540	24000.	86	47694	No
132	GOM_TRA_1PNPDK20110414_093714_000000383101_00266_47694_3976.N1	14-APR-2011 09:37:14	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	47694	No
133	GOM_TRA_1PNPDK20110414_093843_000000483101_00266_47694_3977.N1	14-APR-2011 09:38:43	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	47694	No
134	GOM_TRA_1PNPDK20110414_094716_000000393101_00266_47694_3978.N1	14-APR-2011 09:47:16	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	47694	No
135	GOM_TRA_1PNPDK20110414_095145_000000373101_00266_47694_3979.N1	14-APR-2011 09:51:45	Twi_and_stray	37.000	144	18Del Cyg	2.8600	11000.	74	47694	No
136	GOM_TRA_1PNPDK20110414_095415_000000563101_00266_47694_3980.N1	14-APR-2011 09:54:15	Bright	55.500	66	37Gam Cyg	2.2080	5900.0	111	47694	No
137	GOM_TRA_1PNPDK20110414_095646_000000533101_00266_47694_3981.N1	14-APR-2011 09:56:46	Bright	52.500	92	53Eps Cyg	2.5000	4500.0	105	47694	No
138	GOM_TRA_1PNPDK20110414_100406_000000513101_00266_47694_3982.N1	14-APR-2011 10:04:06	Twilight	51.000	61	8Eps Peg	2.1000	3900.0	102	47694	No
139	GOM_TRA_1PNPDK20110414_100909_000000493101_00266_47694_3983.N1	14-APR-2011 10:09:09	Dark	49.000	154	22Bet Aqr	2.8990	5700.0	98	47694	No
140	GOM_TRA_1PNPDK20110414_102518_000000593101_00267_47695_3984.N1	14-APR-2011 10:25:18	Dark	59.000	103	38Zet Sgr	2.6000	9700.0	118	47695	No
141	GOM_TRA_1PNPDK20110414_102852_000000623101_00267_47695_3985.N1	14-APR-2011 10:28:52	Dark	61.500	38	20Eps Sgr	1.8360	11000.	123	47695	No
142	GOM_TRA_1PNPDK20110414_103102_000000433101_00267_47695_3986.N1	14-APR-2011 10:31:02	Dark	43.000	141	Bet Ara	2.8400	4600.0	86	47695	No
143	GOM_TRA_1PNPDK20110414_103250_000000643101_00267_47695_3987.N1	14-APR-2011 10:32:50	Dark	63.500	25	35Lam Sco	1.6200	28000.	127	47695	No
144	GOM_TRA_1PNPDK20110414_103647_000000703101_00267_47695_3988.N1	14-APR-2011 10:36:47	Straylight	70.000	75	26Eps Sco	2.2910	4250.0	140	47695	No
145	GOM_TRA_1PNPDK20110414_103848_000000433101_00267_47695_3989.N1	14-APR-2011 10:38:48	Straylight	43.000	78	Alp Lup	2.3040	28000.	86	47695	No
146	GOM_TRA_1PNPDK20110414_104023_000000433101_00267_47695_3990.N1	14-APR-2011 10:40:23	Straylight	43.000	81	Eta Cen	2.3560	28000.	86	47695	No
147	GOM_TRA_1PNPDK20110414_104246_000000453101_00267_47695_3991.N1	14-APR-2011 10:42:46	Straylight	44.500	54	5The Cen	2.0550	4500.0	89	47695	No
148	GOM_TRA_1PNPDK20110414_104730_000000443101_00267_47695_3992.N1	14-APR-2011 10:47:30	Twi_and_stray	44.000	169	46Gam Hya	2.9910	4700.0	88	47695	No
149	GOM_TRA_1PNPDK20110414_104904_000000703101_00267_47695_3993.N1	14-APR-2011 10:49:04	Bright	70.000	122	9Alp2Lib	2.7470	9700.0	140	47695	No
150	GOM_TRA_1PNPDK20110414_105800_000000583101_00267_47695_4017.N1	14-APR-2011 10:58:00	Bright	58.000	138	47Eps Vir	2.8280	4700.0	116	47695	No
151	GOM_TRA_1PNPDK20110414_110126_000000493101_00267_47695_4018.N1	14-APR-2011 11:01:26	Bright	48.500	111	8Eta Boo	2.6800	6000.0	97	47695	No
152	GOM_TRA_1PNPDK20110414_110606_000000403101_00267_47695_4019.N1	14-APR-2011 11:06:06	Bright	39.500	152	12Alp2CVn	2.8900	11000.	79	47695	No
153	GOM_TRA_1PNPDK20110414_111027_000000463101_00267_47695_4020.N1	14-APR-2011 11:10:27	Bright	45.500	39	85Eta UMa	1.8540	24000.	91	47695	No
154	GOM_TRA_1PNPDK20110414_111728_000000403101_00267_47695_4021.N1	14-APR-2011 11:17:28	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	47695	No
155	GOM_TRA_1PNPDK20110414_111856_000000443101_00267_47695_4022.N1	14-APR-2011 11:18:56	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	47695	No
156	GOM_TRA_1PNPDK20110414_112729_000000403101_00267_47695_4023.N1	14-APR-2011 11:27:29	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	47695	No
157	GOM_TRA_1PNPDK20110414_113158_000000373101_00267_47695_4024.N1	14-APR-2011 11:31:58	Twi_and_stray	37.000	144	18Del Cyg	2.8600	11000.	74	47695	No
158	GOM_TRA_1PNPDK20110414_113429_000000553101_00267_47695_4025.N1	14-APR-2011 11:34:29	Bright	55.000	66	37Gam Cyg	2.2080	5900.0	110	47695	No
159	GOM_TRA_1PNPDK20110414_113700_000000523101_00267_47695_4026.N1	14-APR-2011 11:37:00	Bright	52.000	92	53Eps Cyg	2.5000	4500.0	104	47695	No
160	GOM_TRA_1PNPDK20110414_114421_000000523101_00267_47695_4027.N1	14-APR-2011 11:44:21	Twilight	52.000	61	8Eps Peg	2.1000	3900.0	104	47695	No
161	GOM_TRA_1PNPDK20110414_114923_000000493101_00267_47695_4028.N1	14-APR-2011 11:49:23	Dark	49.000	154	22Bet Aqr	2.8990	5700.0	98	47695	No
162	GOM_TRA_1PNPDK20110414_120533_000000613101_00268_47696_4029.N1	14-APR-2011 12:05:33	Dark	61.000	103	38Zet Sgr	2.6000	9700.0	122	47696	No
163	GOM_TRA_1PNPDK20110414_120908_000000623101_00268_47696_4030.N1	14-APR-2011 12:09:08	Dark	62.000	38	20Eps Sgr	1.8360	11000.	124	47696	No
164	GOM_TRA_1PNPDK20110414_121116_000000433101_00268_47696_4031.N1	14-APR-2011 12:11:16	Dark	43.000	141	Bet Ara	2.8400	4600.0	86	47696	No
165	GOM_TRA_1PNPDK20110414_121305_000000613101_00268_47696_4032.N1	14-APR-2011 12:13:05	Dark	60.500	25	35Lam Sco	1.6200	28000.	121	47696	No
166	GOM_TRA_1PNPDK20110414_121702_000000713101_00268_47696_4033.N1	14-APR-2011 12:17:02	Straylight	71.000	75	26Eps Sco	2.2910	4250.0	142	47696	No
167	GOM_TRA_1PNPDK20110414_121903_000000423101_00268_47696_4034.N1	14-APR-2011 12:19:03	Straylight	42.000	78	Alp Lup	2.3040	28000.	84	47696	No
168	GOM_TRA_1PNPDK20110414_122038_000000433101_00268_47696_4035.N1	14-APR-2011 12:20:38	Straylight	43.000	81	Eta Cen	2.3560	28000.	86	47696	No
169	GOM_TRA_1PNPDK20110414_122300_000000443101_00268_47696_4036.N1	14-APR-2011 12:23:00	Straylight	44.000	54	5The Cen	2.0550	4500.0	88	47696	No
170	GOM_TRA_1PNPDK20110414_122918_000000593101_00268_47696_4037.N1	14-APR-2011 12:29:18	Bright	59.000	122	9Alp2Lib	2.7470	9700.0	118	47696	No
171	GOM_TRA_1PNPDK20110414_123123_000000433101_00268_47696_4056.N1	14-APR-2011 12:31:23	Bright	42.500	15	67Alp Vir	0.97600	28000.	85	47696	No
172	GOM_TRA_1PNPDK20110414_123814_000000583101_00268_47696_4057.N1	14-APR-2011 12:38:14	Bright	58.000	138	47Eps Vir	2.8280	4700.0	116	47696	No
173	GOM_TRA_1PNPDK20110414_124139_000000493101_00268_47696_4058.N1	14-APR-2011 12:41:39	Bright	48.500	111	8Eta Boo	2.6800	6000.0	97	47696	No
174	GOM_TRA_1PNPDK20110414_124620_000000373101_00268_47696_4059.N1	14-APR-2011 12:46:20	Bright	36.500	152	12Alp2CVn	2.8900	11000.	73	47696	No
175	GOM_TRA_1PNPDK20110414_125040_000000443101_00268_47696_4060.N1	14-APR-2011 12:50:40	Bright	43.500	39	85Eta UMa	1.8540	24000.	87	47696	No
176	GOM_TRA_1PNPDK20110414_125741_000000413101_00268_47696_4061.N1	14-APR-2011 12:57:41	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47696	No
177	GOM_TRA_1PNPDK20110414_125909_000000453101_00268_47696_4062.N1	14-APR-2011 12:59:09	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	47696	No
178	GOM_TRA_1PNPDK20110414_130744_000000383101_00268_47696_4063.N1	14-APR-2011 13:07:44	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	47696	No
179	GOM_TRA_1PNPDK20110414_131212_000000323101_00268_47696_4064.N1	14-APR-2011 13:12:12	Twi_and_stray	32.000	144	18Del Cyg	2.8600	11000.	64	47696	No
180	GOM_TRA_1PNPDK20110414_131443_000000553101_00268_47696_4065.N1	14-APR-2011 13:14:43	Bright	54.500	66	37Gam Cyg	2.2080	5900.0	109	47696	No
181	GOM_TRA_1PNPDK20110414_131714_000000523101_00268_47696_4066.N1	14-APR-2011 13:17:14	Bright	52.000	92	53Eps Cyg	2.5000	4500.0	104	47696	No
182	GOM_TRA_1PNPDK20110414_132435_000000533101_00268_47696_4067.N1	14-APR-2011 13:24:35	Twilight	52.500	61	8Eps Peg	2.1000	3900.0	105	47696	No
183	GOM_TRA_1PNPDK20110414_132938_000000483101_00268_47696_4068.N1	14-APR-2011 13:29:38	Dark	48.000	154	22Bet Aqr	2.8990	5700.0	96	47696	No
184	GOM_TRA_1PNPDK20110414_134549_000000643101_00269_47697_4069.N1	14-APR-2011 13:45:49	Dark	63.500	103	38Zet Sgr	2.6000	9700.0	127	47697	No
185	GOM_TRA_1PNPDK20110414_134923_000000613101_00269_47697_4070.N1	14-APR-2011 13:49:23	Dark	60.500	38	20Eps Sgr	1.8360	11000.	121	47697	No
186	GOM_TRA_1PNPDK20110414_135131_000000443101_00269_47697_4071.N1	14-APR-2011 13:51:31	Dark	44.000	141	Bet Ara	2.8400	4600.0	88	47697	No
187	GOM_TRA_1PNPDK20110414_135320_000000603101_00269_47697_4072.N1	14-APR-2011 13:53:20	Dark	60.000	25	35Lam Sco	1.6200	28000.	120	47697	No
188	GOM_TRA_1PNPDK20110414_135717_000000713101_00269_47697_4073.N1	14-APR-2011 13:57:17	Straylight	71.000	75	26Eps Sco	2.2910	4250.0	142	47697	No
189	GOM_TRA_1PNPDK20110414_135917_000000423101_00269_47697_4074.N1	14-APR-2011 13:59:17	Straylight	41.500	78	Alp Lup	2.3040	28000.	83	47697	No

190	GOM_TRA_1PNPDK20110414_140052_000000423101_00269_47697_4075.N1	14-APR-2011 14:00:52	Straylight	42.000	81	Eta Cen	2.3560	28000.	84	47697	No
191	GOM_TRA_1PNPDK20110414_140315_000000493101_00269_47697_4076.N1	14-APR-2011 14:03:15	Straylight	48.500	54	5The Cen	2.0550	4500.0	97	47697	No
192	GOM_TRA_1PNPDK20110414_140932_000000733101_00269_47697_4091.N1	14-APR-2011 14:09:32	Bright	72.500	122	9Alp2Lib	2.7470	9700.0	145	47697	No
193	GOM_TRA_1PNPDK20110414_141137_000000443101_00269_47697_4092.N1	14-APR-2011 14:11:37	Bright	44.000	15	67Alp Vir	0.97600	28000.	88	47697	No
194	GOM_TRA_1PNPDK20110414_141827_000000403101_00269_47697_4093.N1	14-APR-2011 14:18:27	Bright	40.000	138	47Eps Vir	2.8280	4700.0	80	47697	No
195	GOM_TRA_1PNPDK20110414_142153_000000473101_00269_47697_4094.N1	14-APR-2011 14:21:53	Bright	47.000	111	8Eta Boo	2.6800	6000.0	94	47697	No
196	GOM_TRA_1PNPDK20110414_142634_000000383101_00269_47697_4095.N1	14-APR-2011 14:26:34	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	47697	No
197	GOM_TRA_1PNPDK20110414_143054_000000453101_00269_47697_4096.N1	14-APR-2011 14:30:54	Bright	44.500	39	85Eta UMa	1.8540	24000.	89	47697	No
198	GOM_TRA_1PNPDK20110414_143755_000000403101_00269_47697_4097.N1	14-APR-2011 14:37:55	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	47697	No
199	GOM_TRA_1PNPDK20110414_143923_000000463101_00269_47697_4098.N1	14-APR-2011 14:39:23	Bright	45.500	119	14Eta Dra	2.7270	4700.0	91	47697	No
200	GOM_TRA_1PNPDK20110414_144758_000000383101_00269_47697_4099.N1	14-APR-2011 14:47:58	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	47697	No
201	GOM_TRA_1PNPDK20110414_145226_000000323101_00269_47697_4100.N1	14-APR-2011 14:52:26	Twi_and_stray	32.000	144	18Del Cyg	2.8600	11000.	64	47697	No
202	GOM_TRA_1PNPDK20110414_145457_000000543101_00269_47697_4101.N1	14-APR-2011 14:54:57	Bright	54.000	66	37Gam Cyg	2.2080	5900.0	108	47697	No
203	GOM_TRA_1PNPDK20110414_145728_000000553101_00269_47697_4102.N1	14-APR-2011 14:57:28	Bright	55.000	92	53Eps Cyg	2.5000	4500.0	110	47697	No
204	GOM_TRA_1PNPDK20110414_150450_000000483101_00269_47697_4103.N1	14-APR-2011 15:04:50	Twilight	48.000	61	8Eps Peg	2.1000	3900.0	96	47697	No
205	GOM_TRA_1PNPDK20110414_150953_000000473101_00269_47697_4104.N1	14-APR-2011 15:09:53	Dark	46.500	154	22Bet Aqr	2.8990	5700.0	93	47697	No
206	GOM_TRA_1PNPDK20110414_152604_000000613101_00270_47698_4105.N1	14-APR-2011 15:26:04	Dark	61.000	103	38Zet Sgr	2.6000	9700.0	122	47698	No
207	GOM_TRA_1PNPDK20110414_152939_000000623101_00270_47698_4106.N1	14-APR-2011 15:29:39	Dark	61.500	38	20Eps Sgr	1.8360	11000.	123	47698	No
208	GOM_TRA_1PNPDK20110414_153146_000000443101_00270_47698_4107.N1	14-APR-2011 15:31:46	Dark	44.000	141	Bet Ara	2.8400	4600.0	88	47698	No
209	GOM_TRA_1PNPDK20110414_153335_000000633101_00270_47698_4108.N1	14-APR-2011 15:33:35	Dark	62.500	25	35Lam Sco	1.6200	28000.	125	47698	No
210	GOM_TRA_1PNPDK20110414_153732_000000693101_00270_47698_4109.N1	14-APR-2011 15:37:32	Straylight	68.500	75	26Eps Sco	2.2910	4250.0	137	47698	No
211	GOM_TRA_1PNPDK20110414_153931_000000443101_00270_47698_4110.N1	14-APR-2011 15:39:31	Straylight	43.500	78	Alp Lup	2.3040	28000.	87	47698	No
212	GOM_TRA_1PNPDK20110414_154107_000000423101_00270_47698_4111.N1	14-APR-2011 15:41:07	Straylight	42.000	81	Eta Cen	2.3560	28000.	84	47698	No
213	GOM_TRA_1PNPDK20110414_154329_000000483101_00270_47698_4112.N1	14-APR-2011 15:43:29	Straylight	47.500	54	5The Cen	2.0550	4500.0	95	47698	No
214	GOM_TRA_1PNPDK20110414_154946_000000713101_00270_47698_4108.N1	14-APR-2011 15:49:46	Bright	70.500	122	9Alp2Lib	2.7470	9700.0	141	47698	No
215	GOM_TRA_1PNPDK20110414_155151_000000423101_00270_47698_4109.N1	14-APR-2011 15:51:51	Bright	42.000	15	67Alp Vir	0.97600	28000.	84	47698	No
216	GOM_TRA_1PNPDK20110414_155841_000000403101_00270_47698_4110.N1	14-APR-2011 15:58:41	Bright	40.000	138	47Eps Vir	2.8280	4700.0	80	47698	No
217	GOM_TRA_1PNPDK20110414_160206_000000493101_00270_47698_4111.N1	14-APR-2011 16:02:06	Bright	49.000	111	8Eta Boo	2.6800	6000.0	98	47698	No
218	GOM_TRA_1PNPDK20110414_160647_000000393101_00270_47698_4112.N1	14-APR-2011 16:06:47	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	47698	No
219	GOM_TRA_1PNPDK20110414_161107_000000433101_00270_47698_4113.N1	14-APR-2011 16:11:07	Bright	43.000	39	85Eta UMa	1.8540	24000.	86	47698	No
220	GOM_TRA_1PNPDK20110414_161809_000000413101_00270_47698_4114.N1	14-APR-2011 16:18:09	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	47698	No
221	GOM_TRA_1PNPDK20110414_161936_000000483101_00270_47698_4115.N1	14-APR-2011 16:19:36	Bright	48.000	119	14Eta Dra	2.7270	4700.0	96	47698	No
222	GOM_TRA_1PNPDK20110414_162811_000000403101_00270_47698_4116.N1	14-APR-2011 16:28:11	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	47698	No
223	GOM_TRA_1PNPDK20110414_163239_000000273101_00270_47698_4117.N1	14-APR-2011 16:32:39	Twi_and_stray	27.000	144	18Del Cyg	2.8600	11000.	54	47698	No
224	GOM_TRA_1PNPDK20110414_163511_000000543101_00270_47698_4118.N1	14-APR-2011 16:35:11	Bright	53.500	66	37Gam Cyg	2.2080	5900.0	107	47698	No
225	GOM_TRA_1PNPDK20110414_163742_000000543101_00270_47698_4119.N1	14-APR-2011 16:37:42	Bright	53.500	92	53Eps Cyg	2.5000	4500.0	107	47698	No
226	GOM_TRA_1PNPDK20110414_164504_000000563101_00270_47698_4120.N1	14-APR-2011 16:45:04	Twilight	55.500	61	8Eps Peg	2.1000	3900.0	111	47698	No
227	GOM_TRA_1PNPDK20110414_165007_000000503101_00270_47698_4121.N1	14-APR-2011 16:50:07	Dark	49.500	154	22Bet Aqr	2.8990	5700.0	99	47698	No
228	GOM_TRA_1PNPDK20110414_170620_000000613101_00271_47699_4122.N1	14-APR-2011 17:06:20	Dark	61.000	103	38Zet Sgr	2.6000	9700.0	122	47699	No
229	GOM_TRA_1PNPDK20110414_170954_000000633101_00271_47699_4123.N1	14-APR-2011 17:09:54	Dark	62.500	38	20Eps Sgr	1.8360	11000.	125	47699	No
230	GOM_TRA_1PNPDK20110414_171201_000000443101_00271_47699_4124.N1	14-APR-2011 17:12:01	Dark	44.000	141	Bet Ara	2.8400	4600.0	88	47699	No
231	GOM_TRA_1PNPDK20110414_171351_000000613101_00271_47699_4125.N1	14-APR-2011 17:13:51	Dark	60.500	25	35Lam Sco	1.6200	28000.	121	47699	No
232	GOM_TRA_1PNPDK20110414_171747_000000723101_00271_47699_4126.N1	14-APR-2011 17:17:47	Straylight	72.000	75	26Eps Sco	2.2910	4250.0	144	47699	No
233	GOM_TRA_1PNPDK20110414_171946_000000403101_00271_47699_4127.N1	14-APR-2011 17:19:46	Straylight	39.500	78	Alp Lup	2.3040	28000.	79	47699	No
234	GOM_TRA_1PNPDK20110414_172121_000000453101_00271_47699_4148.N1	14-APR-2011 17:21:21	Straylight	45.000	81	Eta Cen	2.3560	28000.	90	47699	Yes
235	GOM_TRA_1PNPDK20110414_172344_000000493101_00271_47699_4149.N1	14-APR-2011 17:23:44	Straylight	48.500	54	5The Cen	2.0550	4500.0	97	47699	No
236	GOM_TRA_1PNPDK20110414_173000_000000723101_00271_47699_4150.N1	14-APR-2011 17:30:00	Bright	72.000	122	9Alp2Lib	2.7470	9700.0	144	47699	No
237	GOM_TRA_1PNPDK20110414_173205_000000483101_00271_47699_4151.N1	14-APR-2011 17:32:05	Bright	47.500	15	67Alp Vir	0.97600	28000.	95	47699	No
238	GOM_TRA_1PNPDK20110414_173855_000000413101_00271_47699_4152.N1	14-APR-2011 17:38:55	Bright	40.500	138	47Eps Vir	2.8280	4700.0	81	47699	No
239	GOM_TRA_1PNPDK20110414_174220_000000483101_00271_47699_4153.N1	14-APR-2011 17:42:20	Bright	48.000	111	8Eta Boo	2.6800	6000.0	96	47699	No
240	GOM_TRA_1PNPDK20110414_174701_000000393101_00271_47699_4154.N1	14-APR-2011 17:47:01	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	47699	No
241	GOM_TRA_1PNPDK20110414_175121_000000443101_00271_47699_4155.N1	14-APR-2011 17:51:21	Bright	43.500	39	85Eta UMa	1.8540	24000.	87	47699	No
242	GOM_TRA_1PNPDK20110414_175823_000000393101_00271_47699_4156.N1	14-APR-2011 17:58:23	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	47699	No
243	GOM_TRA_1PNPDK20110414_175949_000000473101_00271_47699_4157.N1	14-APR-2011 17:59:49	Bright	47.000	119	14Eta Dra	2.7270	4700.0	94	47699	No
244	GOM_TRA_1PNPDK20110414_180825_000000403101_00271_47699_4158.N1	14-APR-2011 18:08:25	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	47699	No
245	GOM_TRA_1PNPDK20110414_181253_000000273101_00271_47699_4159.N1	14-APR-2011 18:12:53	Twi_and_stray	27.000	144	18Del Cyg	2.8600	11000.	54	47699	No
246	GOM_TRA_1PNPDK20110414_181525_000000563101_00271_47699_4160.N1	14-APR-2011 18:15:25	Bright	55.500	66	37Gam Cyg	2.2080	5900.0	111	47699	No
247	GOM_TRA_1PNPDK20110414_181756_000000533101_00271_47699_4161.N1	14-APR-2011 18:17:56	Bright	53.000	92	53Eps Cyg	2.5000	4500.0	106	47699	No
248	GOM_TRA_1PNPDK20110414_182519_000000503101_00271_47699_4162.N1	14-APR-2011 18:25:19	Twilight	50.000	61	8Eps Peg	2.1000	3900.0	100	47699	No

249	GOM_TRA_1PNPDK20110414_183022_000000493101_00271_47699_4163.N1	14-APR-2011 18:30:22	Dark	49.000	154	22Bet Aqr	2.8990	5700.0	98	47699	No
250	GOM_TRA_1PNPDK20110414_184636_000000623101_00272_47700_4164.N1	14-APR-2011 18:46:36	Dark	62.000	103	38Zet Sgr	2.6000	9700.0	124	47700	No
251	GOM_TRA_1PNPDK20110414_185010_000000653101_00272_47700_4165.N1	14-APR-2011 18:50:10	Dark	64.500	38	20Eps Sgr	1.8360	11000.	129	47700	No
252	GOM_TRA_1PNPDK20110414_185215_000000453101_00272_47700_4166.N1	14-APR-2011 18:52:15	Dark	45.000	141	Bet Ara	2.8400	4600.0	90	47700	No
253	GOM_TRA_1PNPDK20110414_185406_000000613101_00272_47700_4167.N1	14-APR-2011 18:54:06	Dark	61.000	25	35Lam Sco	1.6200	28000.	122	47700	No
254	GOM_TRA_1PNPDK20110414_185802_000000653101_00272_47700_4168.N1	14-APR-2011 18:58:02	Straylight	64.500	75	26Eps Sco	2.2910	4250.0	129	47700	No
255	GOM_TRA_1PNPDK20110414_190000_000000413101_00272_47700_4179.N1	14-APR-2011 19:00:00	Straylight	41.000	78	Alp Lup	2.3040	28000.	82	47700	Yes
256	GOM_TRA_1PNPDK20110414_190136_000000443101_00272_47700_4180.N1	14-APR-2011 19:01:36	Straylight	44.000	81	Eta Cen	2.3560	28000.	88	47700	No
257	GOM_TRA_1PNPDK20110414_190358_000000493101_00272_47700_4181.N1	14-APR-2011 19:03:58	Straylight	48.500	54	5The Cen	2.0550	4500.0	97	47700	No
258	GOM_TRA_1PNPDK20110414_191015_000000693101_00272_47700_4182.N1	14-APR-2011 19:10:15	Bright	69.000	122	9Alp2Lib	2.7470	9700.0	138	47700	No
259	GOM_TRA_1PNPDK20110414_191220_000000473101_00272_47700_4183.N1	14-APR-2011 19:12:20	Bright	47.000	15	67Alp Vir	0.97600	28000.	94	47700	No
260	GOM_TRA_1PNPDK20110414_191909_000000403101_00272_47700_4184.N1	14-APR-2011 19:19:09	Bright	40.000	138	47Eps Vir	2.8280	4700.0	80	47700	No
261	GOM_TRA_1PNPDK20110414_192233_000000483101_00272_47700_4185.N1	14-APR-2011 19:22:33	Bright	48.000	111	8Eta Boo	2.6800	6000.0	96	47700	No
262	GOM_TRA_1PNPDK20110414_192715_000000393101_00272_47700_4186.N1	14-APR-2011 19:27:15	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	47700	No
263	GOM_TRA_1PNPDK20110414_193134_000000583101_00272_47700_4187.N1	14-APR-2011 19:31:34	Bright	57.500	39	85Eta UMa	1.8540	24000.	115	47700	No
264	GOM_TRA_1PNPDK20110414_193836_000000413101_00272_47700_4188.N1	14-APR-2011 19:38:36	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	47700	No
265	GOM_TRA_1PNPDK20110414_194003_000000493101_00272_47700_4189.N1	14-APR-2011 19:40:03	Bright	48.500	119	14Eta Dra	2.7270	4700.0	97	47700	No
266	GOM_TRA_1PNPDK20110414_194839_000000403101_00272_47700_4190.N1	14-APR-2011 19:48:39	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	47700	No
267	GOM_TRA_1PNPDK20110414_195353_000000483101_00272_47700_4191.N1	14-APR-2011 19:53:53	Bright	47.500	19	50Alp Cyg	1.2460	10500.	95	47700	No
268	GOM_TRA_1PNPDK20110414_195538_000000543101_00272_47700_4192.N1	14-APR-2011 19:55:38	Bright	53.500	66	37Gam Cyg	2.2080	5900.0	107	47700	No
269	GOM_TRA_1PNPDK20110414_195810_000000543101_00272_47700_4193.N1	14-APR-2011 19:58:10	Bright	53.500	92	53Eps Cyg	2.5000	4500.0	107	47700	No
270	GOM_TRA_1PNPDK20110414_200533_000000523101_00272_47700_4194.N1	14-APR-2011 20:05:33	Twilight	52.000	61	8Eps Peg	2.1000	3900.0	104	47700	No
271	GOM_TRA_1PNPDK20110414_201036_000000473101_00272_47700_4195.N1	14-APR-2011 20:10:36	Dark	46.500	154	22Bet Aqr	2.8990	5700.0	93	47700	No
272	GOM_TRA_1PNPDK20110414_202651_000000633101_00273_47701_4196.N1	14-APR-2011 20:26:51	Dark	63.000	103	38Zet Sgr	2.6000	9700.0	126	47701	No
273	GOM_TRA_1PNPDK20110414_203025_000000633101_00273_47701_4197.N1	14-APR-2011 20:30:25	Dark	63.000	38	20Eps Sgr	1.8360	11000.	126	47701	No
274	GOM_TRA_1PNPDK20110414_203230_000000453101_00273_47701_4198.N1	14-APR-2011 20:32:30	Dark	44.500	141	Bet Ara	2.8400	4600.0	89	47701	No
275	GOM_TRA_1PNPDK20110414_203421_000000623101_00273_47701_4199.N1	14-APR-2011 20:34:21	Dark	61.500	25	35Lam Sco	1.6200	28000.	123	47701	No
276	GOM_TRA_1PNPDK20110414_203818_000000713101_00273_47701_4200.N1	14-APR-2011 20:38:18	Straylight	70.500	75	26Eps Sco	2.2910	4250.0	141	47701	No
277	GOM_TRA_1PNPDE20110414_204015_000000423101_00273_47701_5333.N1	14-APR-2011 20:40:15	Straylight	42.000	78	Alp Lup	2.3040	28000.	84	47701	Yes
278	GOM_TRA_1PNPDE20110414_204150_000000443101_00273_47701_5334.N1	14-APR-2011 20:41:50	Straylight	43.500	81	Eta Cen	2.3560	28000.	87	47701	No
279	GOM_TRA_1PNPDE20110414_204412_000000493101_00273_47701_5335.N1	14-APR-2011 20:44:12	Straylight	48.500	54	5The Cen	2.0550	4500.0	97	47701	No
280	GOM_TRA_1PNPDE20110414_205029_000000793101_00273_47701_5336.N1	14-APR-2011 20:50:29	Bright	79.000	122	9Alp2Lib	2.7470	9700.0	158	47701	No
281	GOM_TRA_1PNPDE20110414_205233_000000453101_00273_47701_5337.N1	14-APR-2011 20:52:33	Bright	45.000	15	67Alp Vir	0.97600	28000.	90	47701	No
282	GOM_TRA_1PNPDE20110414_205923_000000583101_00273_47701_5338.N1	14-APR-2011 20:59:23	Bright	58.000	138	47Eps Vir	2.8280	4700.0	116	47701	No
283	GOM_TRA_1PNPDE20110414_210247_000000473101_00273_47701_5339.N1	14-APR-2011 21:02:47	Bright	47.000	111	8Eta Boo	2.6800	6000.0	94	47701	No
284	GOM_TRA_1PNPDE20110414_210729_000000383101_00273_47701_5340.N1	14-APR-2011 21:07:29	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	47701	No
285	GOM_TRA_1PNPDE20110414_211148_000000433101_00273_47701_5341.N1	14-APR-2011 21:11:48	Bright	43.000	39	85Eta UMa	1.8540	24000.	86	47701	No
286	GOM_TRA_1PNPDE20110414_211850_000000403101_00273_47701_5342.N1	14-APR-2011 21:18:50	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	47701	No
287	GOM_TRA_1PNPDE20110414_212016_000000493101_00273_47701_5343.N1	14-APR-2011 21:20:16	Bright	48.500	119	14Eta Dra	2.7270	4700.0	97	47701	No
288	GOM_TRA_1PNPDE20110414_212853_000000403101_00273_47701_5344.N1	14-APR-2011 21:28:53	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	47701	No
289	GOM_TRA_1PNPDE20110414_213407_000000643101_00273_47701_5345.N1	14-APR-2011 21:34:07	Bright	64.000	19	50Alp Cyg	1.2460	10500.	128	47701	No
290	GOM_TRA_1PNPDE20110414_213552_000000763101_00273_47701_5346.N1	14-APR-2011 21:35:52	Bright	76.000	66	37Gam Cyg	2.2080	5900.0	152	47701	No
291	GOM_TRA_1PNPDE20110414_213824_000000523101_00273_47701_5347.N1	14-APR-2011 21:38:24	Bright	51.500	92	53Eps Cyg	2.5000	4500.0	103	47701	No
292	GOM_TRA_1PNPDE20110414_214547_000000503101_00273_47701_5348.N1	14-APR-2011 21:45:47	Twilight	49.500	61	8Eps Peg	2.1000	3900.0	99	47701	No
293	GOM_TRA_1PNPDE20110414_215051_000000443101_00273_47701_5363.N1	14-APR-2011 21:50:51	Dark	43.500	154	22Bet Aqr	2.8990	5700.0	87	47701	No
294	GOM_TRA_1PNPDE20110414_220707_000000643101_00274_47702_5364.N1	14-APR-2011 22:07:07	Dark	64.000	103	38Zet Sgr	2.6000	9700.0	128	47702	No
295	GOM_TRA_1PNPDE20110414_221041_000000603101_00274_47702_5365.N1	14-APR-2011 22:10:41	Dark	60.000	38	20Eps Sgr	1.8360	11000.	120	47702	No
296	GOM_TRA_1PNPDE20110414_221245_000000443101_00274_47702_5366.N1	14-APR-2011 22:12:45	Dark	43.500	141	Bet Ara	2.8400	4600.0	87	47702	No
297	GOM_TRA_1PNPDE20110414_221436_000000603101_00274_47702_5367.N1	14-APR-2011 22:14:36	Dark	60.000	25	35Lam Sco	1.6200	28000.	120	47702	No
298	GOM_TRA_1PNPDE20110414_221833_000000713101_00274_47702_5368.N1	14-APR-2011 22:18:33	Straylight	70.500	75	26Eps Sco	2.2910	4250.0	141	47702	No
299	GOM_TRA_1PNPDE20110414_222029_000000463101_00274_47702_5369.N1	14-APR-2011 22:20:29	Straylight	45.500	78	Alp Lup	2.3040	28000.	91	47702	No
300	GOM_TRA_1PNPDE20110414_222204_000000453101_00274_47702_5370.N1	14-APR-2011 22:22:04	Straylight	45.000	81	Eta Cen	2.3560	28000.	90	47702	No
301	GOM_TRA_1PNPDE20110414_222427_000000503101_00274_47702_5371.N1	14-APR-2011 22:24:27	Straylight	49.500	54	5The Cen	2.0550	4500.0	99	47702	No
302	GOM_TRA_1PNPDE20110414_223043_000000713101_00274_47702_5372.N1	14-APR-2011 22:30:43	Bright	71.000	122	9Alp2Lib	2.7470	9700.0	142	47702	No
303	GOM_TRA_1PNPDE20110414_223248_000000463101_00274_47702_5373.N1	14-APR-2011 22:32:48	Bright	45.500	15	67Alp Vir	0.97600	28000.	91	47702	No
304	GOM_TRA_1PNPDE20110414_223937_000000403101_00274_47702_5374.N1	14-APR-2011 22:39:37	Bright	39.500	138	47Eps Vir	2.8280	4700.0	79	47702	No
305	GOM_TRA_1PNPDE20110414_224300_000000463101_00274_47702_5375.N1	14-APR-2011 22:43:00	Bright	45.500	111	8Eta Boo	2.6800	6000.0	91	47702	No
306	GOM_TRA_1PNPDE20110414_224742_000000573101_00274_47702_5376.N1	14-APR-2011 22:47:42	Bright	57.000	152	12Alp2CVn	2.8900	11000.	114	47702	No
307	GOM_TRA_1PNPDE20110414_225054_000000513101_00274_47702_5377.N1	14-APR-2011 22:50:54	Bright	51.000	180	27Gam Boo	3.0400	8000.0	102	47702	No

308	GOM_TRA_1PNPDE20110414_225240_000000403101_00274_47702_5378.N1	14-APR-2011 22:52:40	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	47702	No
309	GOM_TRA_1PNPDE20110414_225903_000000413101_00274_47702_5379.N1	14-APR-2011 22:59:03	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47702	No
310	GOM_TRA_1PNPDE20110414_230029_000000443101_00274_47702_5380.N1	14-APR-2011 23:00:29	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	47702	No
311	GOM_TRA_1PNPDE20110414_230907_000000393101_00274_47702_5381.N1	14-APR-2011 23:09:07	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	47702	No
312	GOM_TRA_1PNPDE20110414_231421_000000493101_00274_47702_5382.N1	14-APR-2011 23:14:21	Bright	48.500	19	50Alp Cyg	1.2460	10500.	97	47702	No
313	GOM_TRA_1PNPDE20110414_231606_000000553101_00274_47702_5383.N1	14-APR-2011 23:16:06	Bright	55.000	66	37Gam Cyg	2.2080	5900.0	110	47702	No
314	GOM_TRA_1PNPDE20110414_231838_000000543101_00274_47702_5384.N1	14-APR-2011 23:18:38	Bright	53.500	92	53Eps Cyg	2.5000	4500.0	107	47702	No
315	GOM_TRA_1PNPDE20110414_232602_000000533101_00274_47702_5385.N1	14-APR-2011 23:26:02	Twilight	52.500	61	8Eps Peg	2.1000	3900.0	105	47702	No
316	GOM_TRA_1PNPDE20110414_233106_000000493101_00274_47702_5386.N1	14-APR-2011 23:31:06	Dark	48.500	154	22Bet Aqr	2.8990	5700.0	97	47702	No
317	GOM_TRA_1PNPDE20110414_234722_000000613101_00275_47703_5388.N1	14-APR-2011 23:47:22	Dark	61.000	103	38Zet Sgr	2.6000	9700.0	122	47703	No
318	GOM_TRA_1PNPDE20110414_235056_000000643101_00275_47703_5389.N1	14-APR-2011 23:50:56	Dark	64.000	38	20Eps Sgr	1.8360	11000.	128	47703	No
319	GOM_TRA_1PNPDE20110414_235259_000000453101_00275_47703_5390.N1	14-APR-2011 23:52:59	Dark	45.000	141	Bet Ara	2.8400	4600.0	90	47703	No
320	GOM_TRA_1PNPDE20110414_235452_000000653101_00275_47703_5391.N1	14-APR-2011 23:54:52	Dark	64.500	25	35Lam Sco	1.6200	28000.	129	47703	No
321	GOM_TRA_1PNPDE20110414_235848_000000743101_00275_47703_5392.N1	14-APR-2011 23:58:48	Straylight	74.000	75	26Eps Sco	2.2910	4250.0	148	47703	No

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



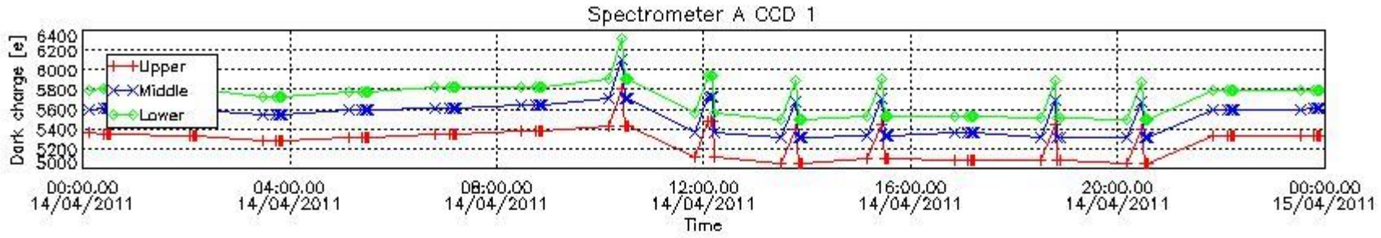
4. Overview of dark signal processing per product

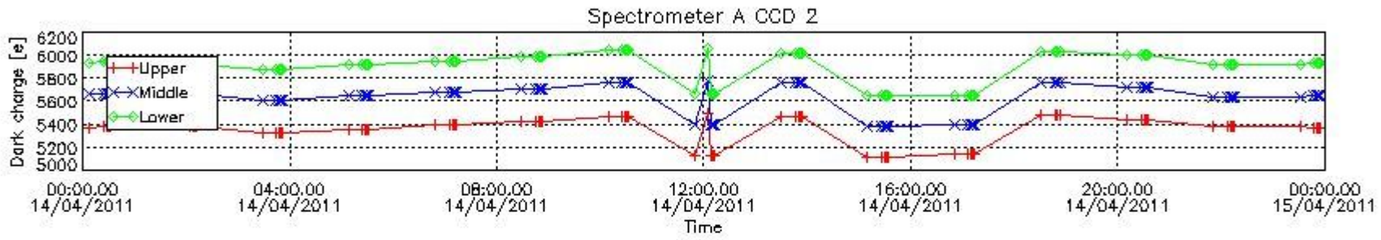
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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.

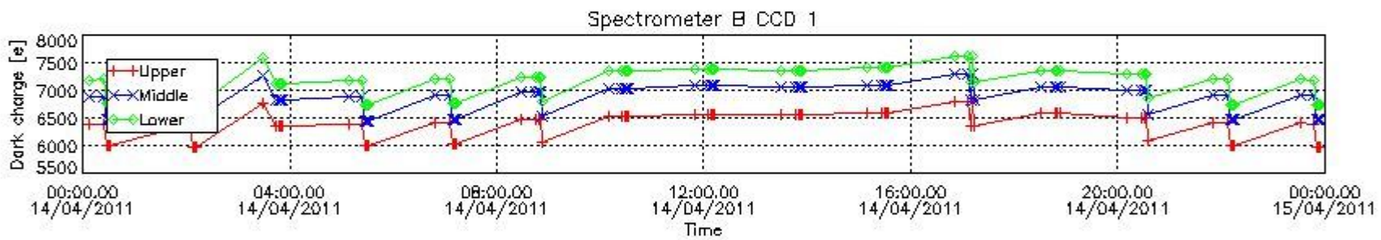
4.1 These products did not use the DSA observation for DC computation:

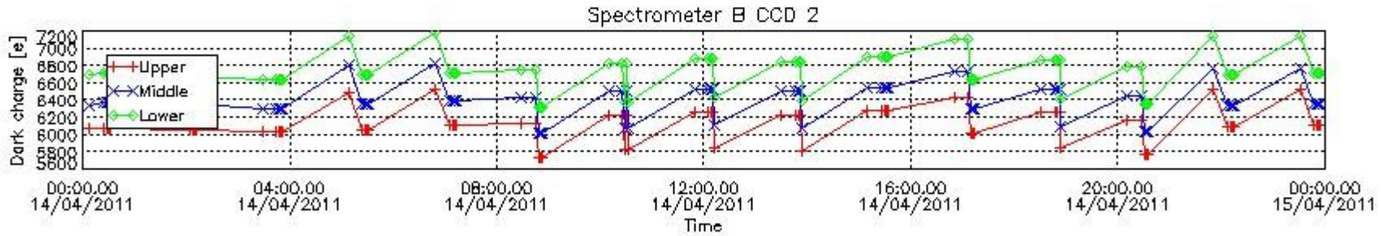
Product name	DC information
GOM_TRA_1PNPDE20110414_204015_000000423101_00273_47701_5333.N1	DC map with no T dep.
GOM_TRA_1PNPDE20110414_204150_000000443101_00273_47701_5334.N1	DC map used
GOM_TRA_1PNPDE20110414_204412_000000493101_00273_47701_5335.N1	DC map used
GOM_TRA_1PNPDE20110414_205029_000000793101_00273_47701_5336.N1	DC map used
GOM_TRA_1PNPDE20110414_205233_000000453101_00273_47701_5337.N1	DC map used
GOM_TRA_1PNPDE20110414_205923_000000583101_00273_47701_5338.N1	DC map used
GOM_TRA_1PNPDE20110414_210247_000000473101_00273_47701_5339.N1	DC map used
GOM_TRA_1PNPDE20110414_210729_000000383101_00273_47701_5340.N1	DC map used
GOM_TRA_1PNPDE20110414_211148_000000433101_00273_47701_5341.N1	DC map used
GOM_TRA_1PNPDE20110414_211850_000000403101_00273_47701_5342.N1	DC map used
GOM_TRA_1PNPDE20110414_212016_000000493101_00273_47701_5343.N1	DC map used
GOM_TRA_1PNPDE20110414_212853_000000403101_00273_47701_5344.N1	DC map used
GOM_TRA_1PNPDE20110414_213407_000000643101_00273_47701_5345.N1	DC map used
GOM_TRA_1PNPDE20110414_213552_000000763101_00273_47701_5346.N1	DC map used
GOM_TRA_1PNPDE20110414_213824_000000523101_00273_47701_5347.N1	DC map used
GOM_TRA_1PNPDE20110414_214547_000000503101_00273_47701_5348.N1	DC map used

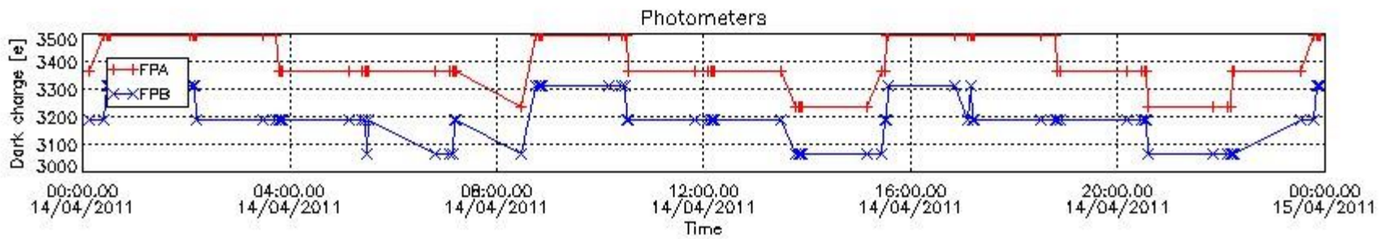
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











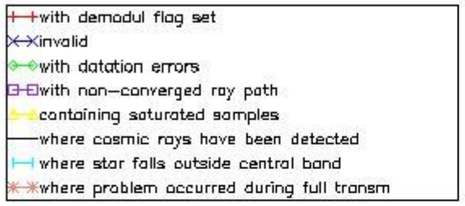
5. Demodulation flag and quality information monitoring

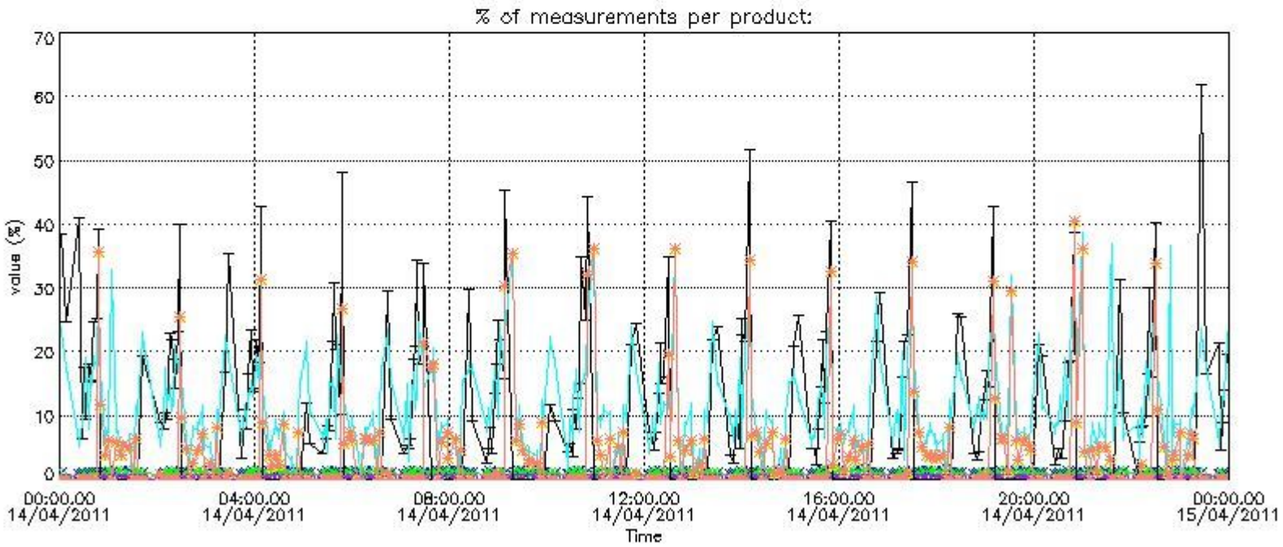
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	44.3038 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

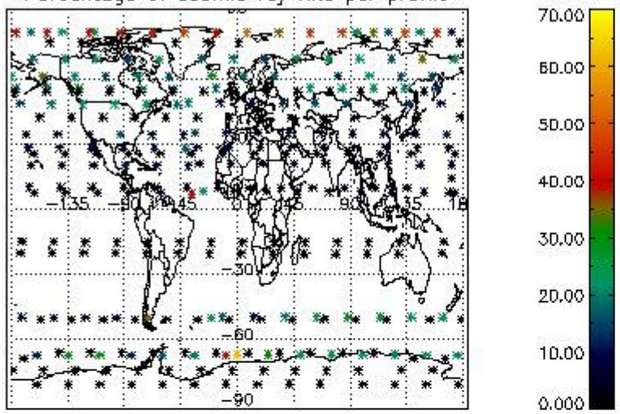
5.2 Plot quality information per product (time dependant)



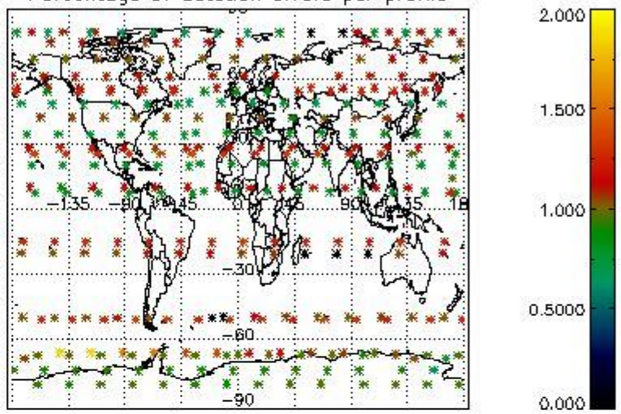


5.3 Plot quality information per product (world map)

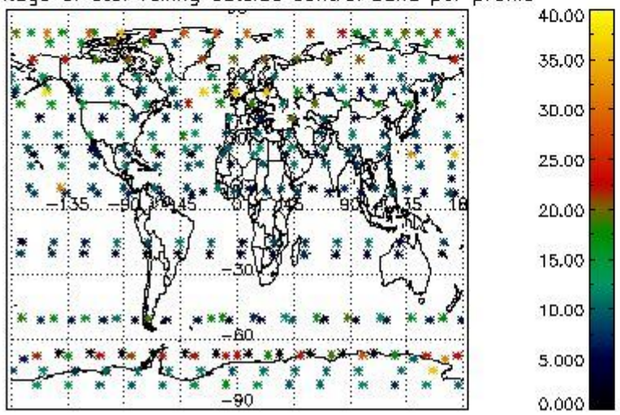
Percentage of cosmic ray hits per profile



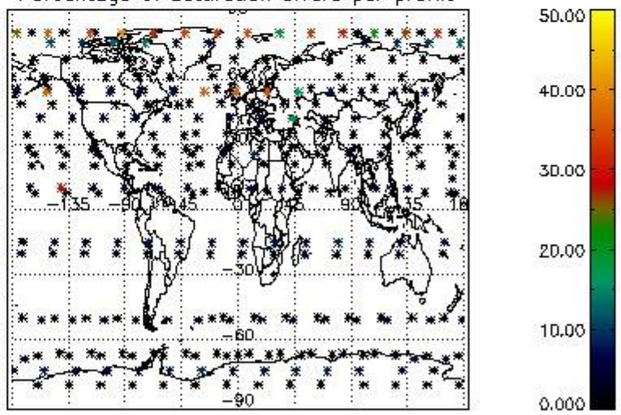
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



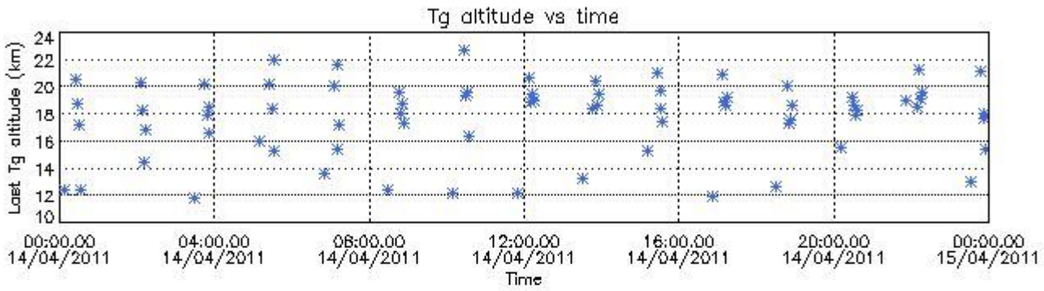
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

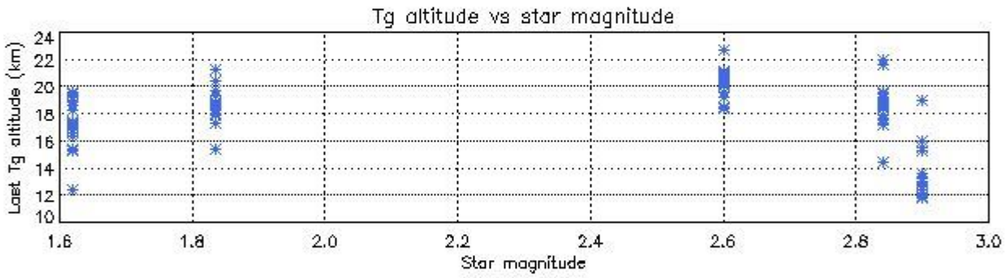
6.1 Statistics on tangent altitude lost:

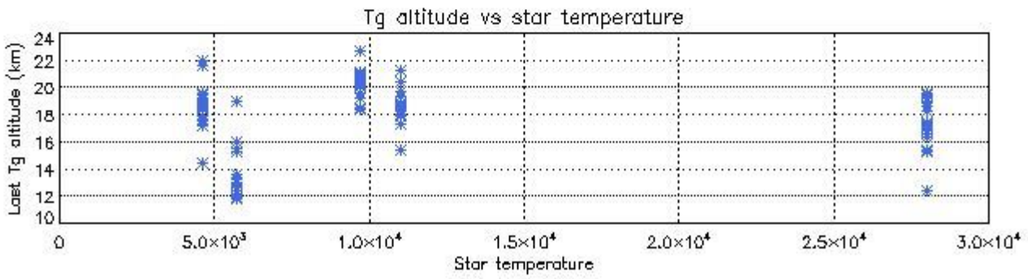
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.710	18.503	10.441
St. deviation:	2.7348	6.3828	1.2484
Maximum:	22.648	45.371	12.407
Minimum:	11.756	3.9463	7.5185
Number of data:	74.000	160.00	15.000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

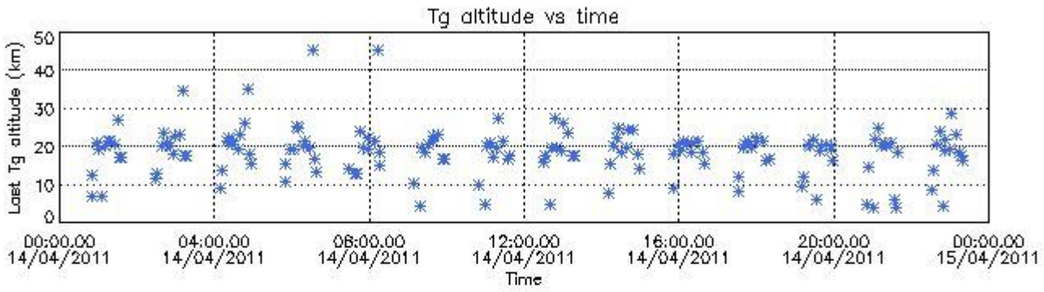


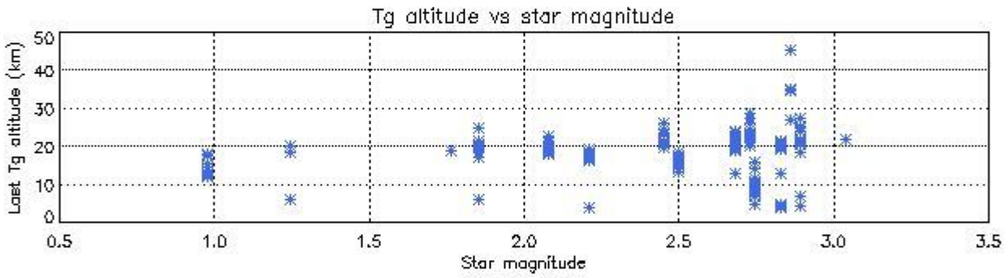


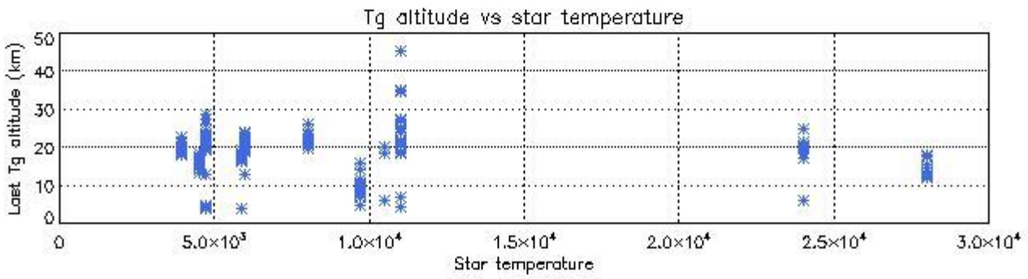


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

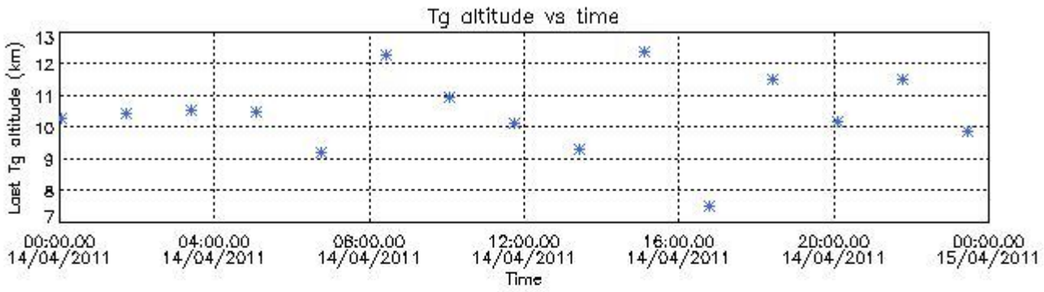


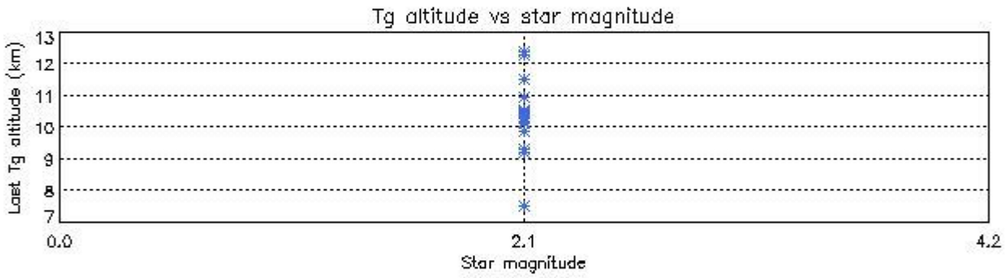


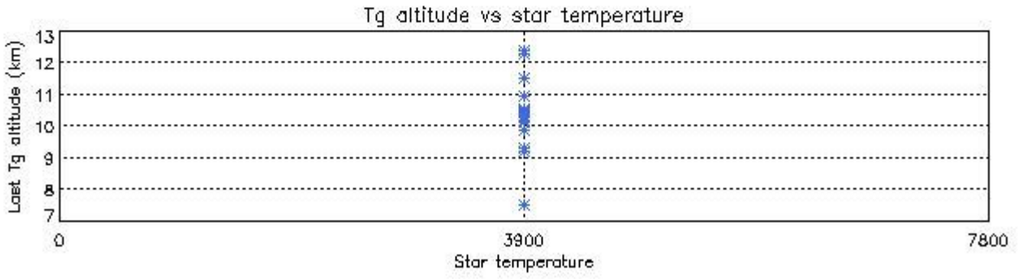


6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost





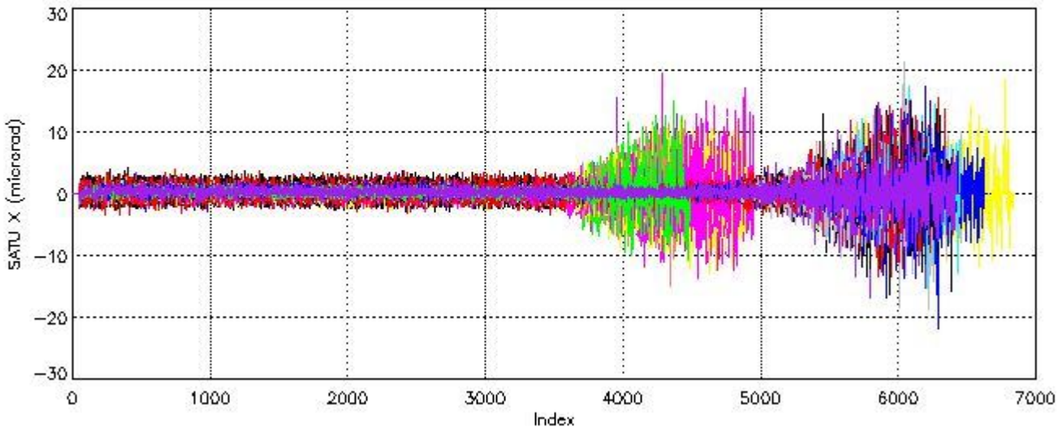


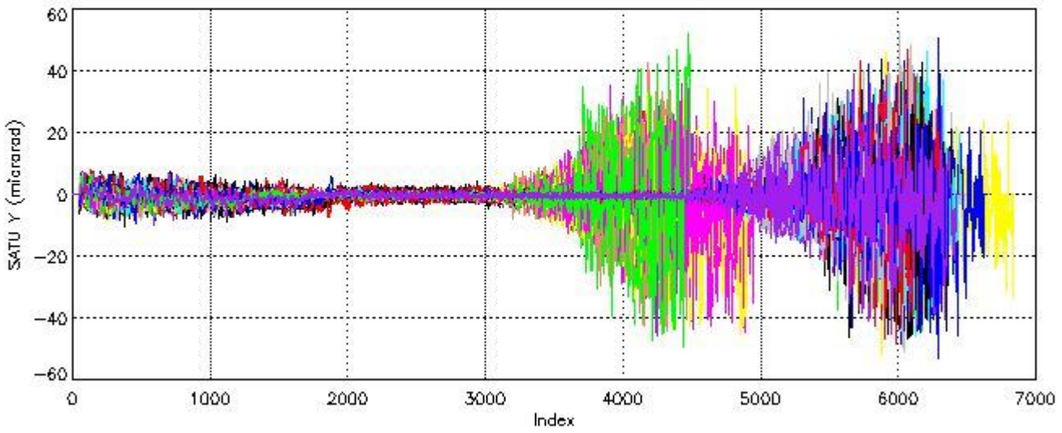
7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main functin 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 frecuency 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:	0.27633	-1.0025	0.29284	-1.3000
St. deviation:	0.61408	1.9074	0.79126	1.7056
Maximum:	4.3000	8.0000	7.0000	9.1000
Minimum:	-3.3000	-10.500	-12.000	-15.600

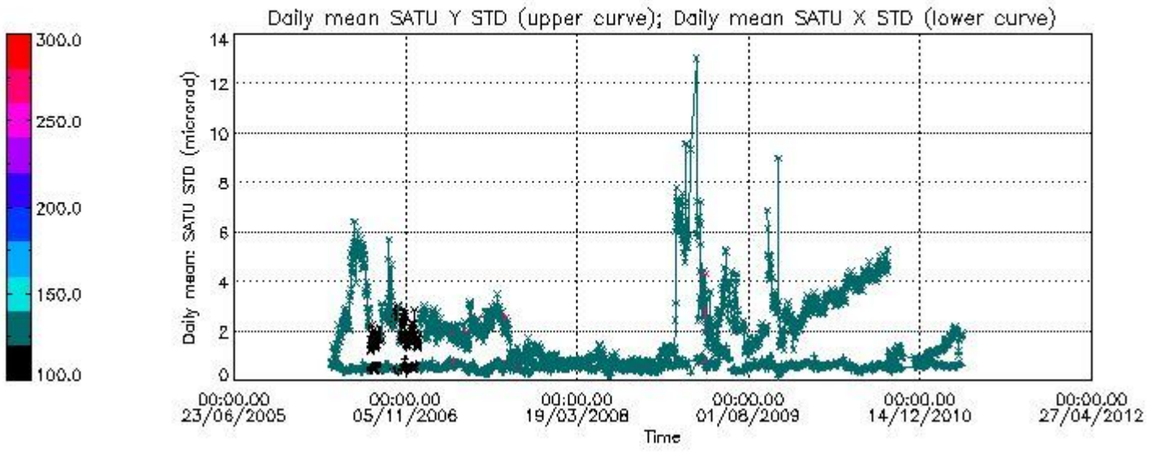
Number of data:	97700.	97700.	1.7170E+05	1.7170E+05

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

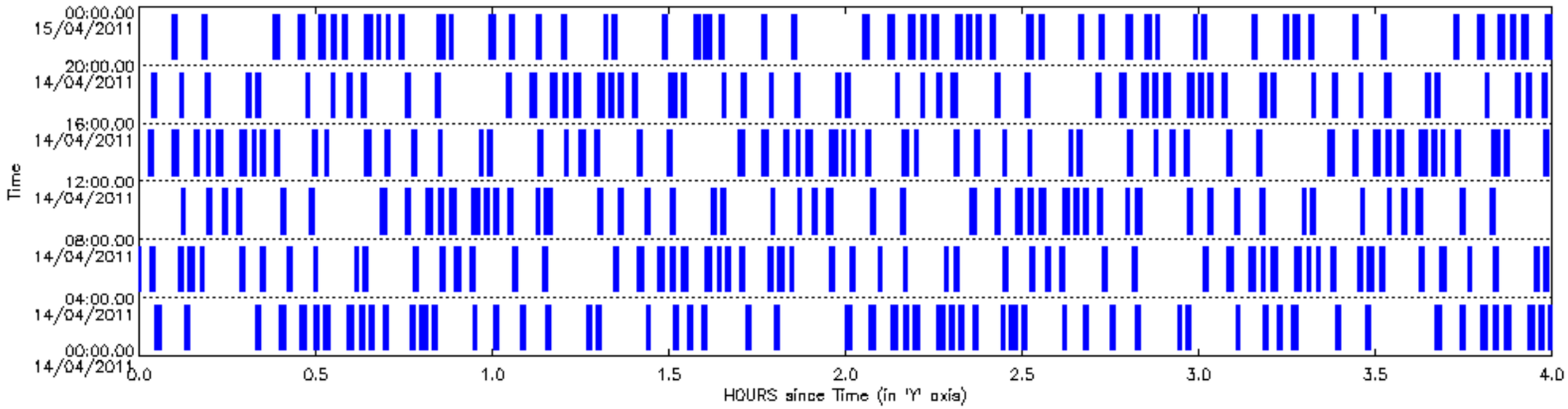


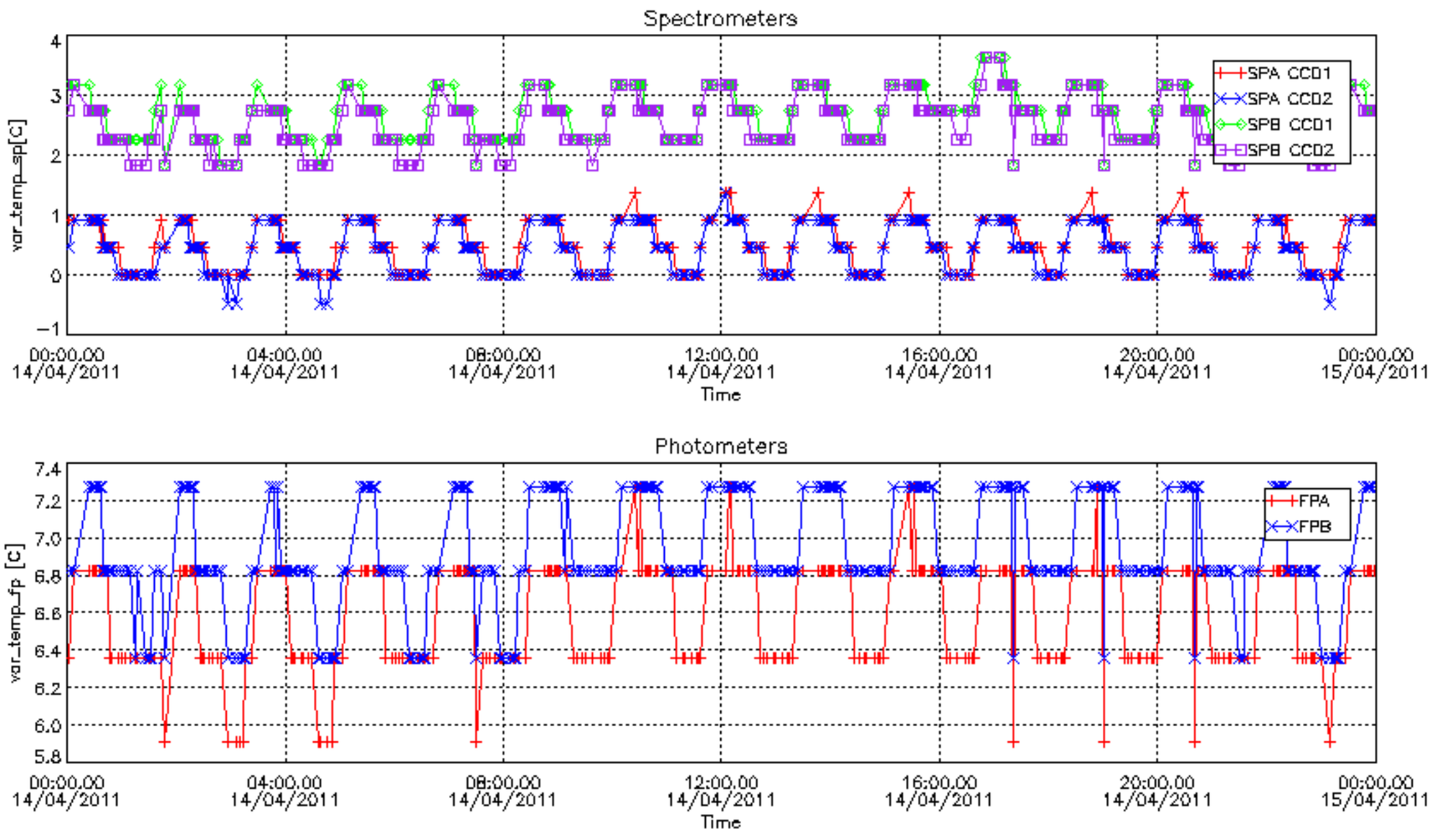
8. Auxiliary Data Files used for the production reported in section 2.4

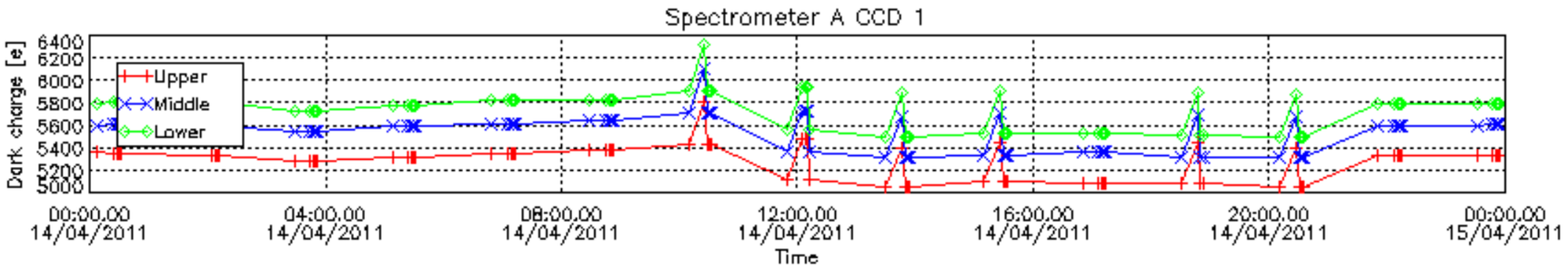
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

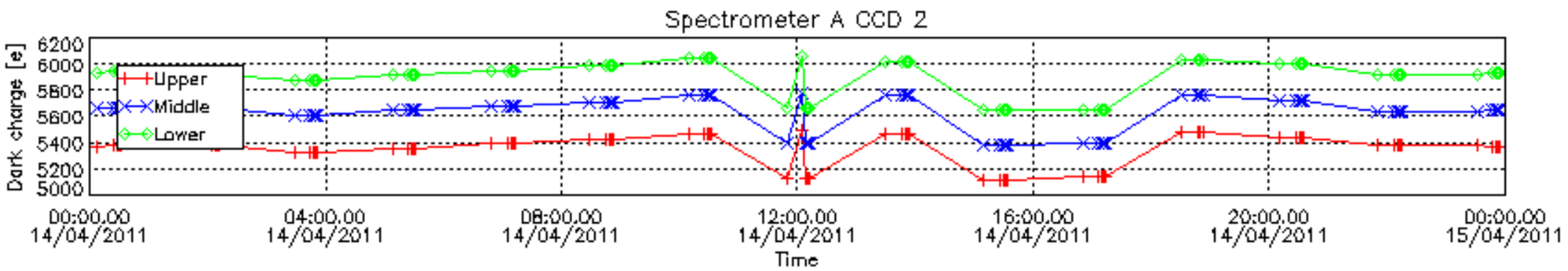
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	14-APR-2011 00:02:39
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110407_084842_20110406_000000_20500101_000000	1	14-APR-2011 00:02:39
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	14-APR-2011 00:02:39
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-APR-2011 00:02:39
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	14-APR-2011 00:02:39
ECMWF_FILE	AUX_ECF_AXNECM20110413_062115_20110413_210000_20110414_090000	1	14-APR-2011 00:02:39
ECMWF_FILE	AUX_ECF_AXNECM20110413_182117_20110414_030000_20110414_150000	43	14-APR-2011 03:06:20
ECMWF_FILE	AUX_ECA_AXNECM20110414_062115_20110413_210000_20110414_090000	89	14-APR-2011 06:26:48
ECMWF_FILE	AUX_ECF_AXNECM20110413_182117_20110414_030000_20110414_150000	105	14-APR-2011 07:30:41
ECMWF_FILE	AUX_ECF_AXNECM20110414_062116_20110414_090000_20110414_210000	128	14-APR-2011 09:17:46
ECMWF_FILE	AUX_ECF_AXNECM20110414_062116_20110414_150000_20110415_030000	214	14-APR-2011 15:49:46
ECMWF_FILE	AUX_ECA_AXNECM20110414_182121_20110414_090000_20110414_210000	234	14-APR-2011 17:21:21
ECMWF_FILE	AUX_ECF_AXNECM20110414_062116_20110414_150000_20110415_030000	277	14-APR-2011 20:40:15
ECMWF_FILE	AUX_ECF_AXNECM20110414_062116_20110414_210000_20110415_090000	293	14-APR-2011 21:50:51
OPTIONAL_ECMWF_FILE	MISSING	1	14-APR-2011 00:02:39
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110413_102114_20110412_195747_20110422_203122	1	14-APR-2011 00:02:39
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110414_000844_000054193101_00260_47688_2903.N1	3	14-APR-2011 00:23:44
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110414_014422_000041443101_00261_47689_2904.N1	25	14-APR-2011 01:47:55
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110414_025845_000057383101_00262_47690_2905.N1	43	14-APR-2011 03:06:20
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110414_043942_000057383101_00263_47691_2906.N1	66	14-APR-2011 04:46:35

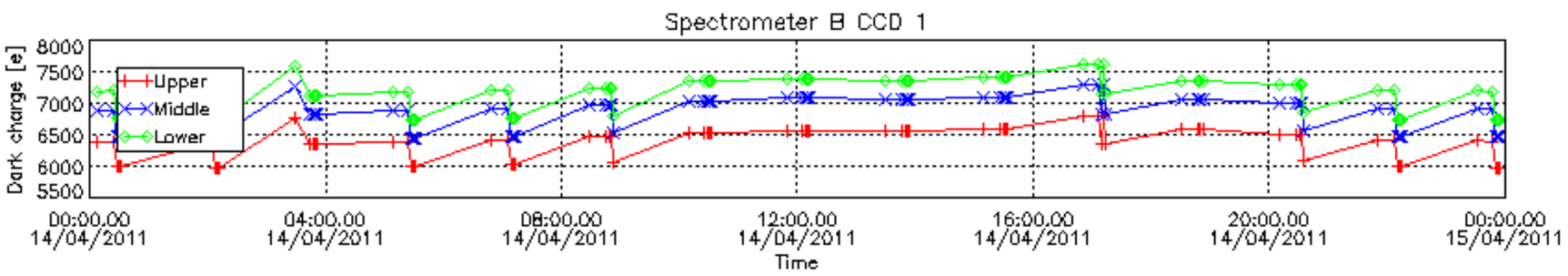
ORBIT_DATA_FILE	DOR_NAV_0PNPDK20110414_062039_000038263101_00264_47692_4304.N1	89	14-APR-2011 06:26:48
ORBIT_DATA_FILE	DOR_NAV_0PNPDK20110414_072943_000057383101_00265_47693_4305.N1	105	14-APR-2011 07:30:41
ORBIT_DATA_FILE	DOR_NAV_0PNPDK20110414_091040_000054193101_00266_47694_4306.N1	128	14-APR-2011 09:17:46
ORBIT_DATA_FILE	DOR_NAV_0PNPDK20110414_104619_000057383101_00267_47695_4307.N1	150	14-APR-2011 10:58:00
ORBIT_DATA_FILE	DOR_NAV_0PNPDK20110414_122716_000057383101_00268_47696_4308.N1	171	14-APR-2011 12:31:23
ORBIT_DATA_FILE	DOR_NAV_0PNPDK20110414_140813_000054193101_00269_47697_4309.N1	192	14-APR-2011 14:09:32
ORBIT_DATA_FILE	DOR_NAV_0PNPDK20110414_154351_000054193101_00270_47698_4310.N1	214	14-APR-2011 15:49:46
ORBIT_DATA_FILE	DOR_NAV_0PNPDK20110414_171929_000057383101_00271_47699_4311.N1	234	14-APR-2011 17:21:21
ORBIT_DATA_FILE	DOR_NAV_0PNPDK20110414_185508_000060573101_00272_47700_4312.N1	255	14-APR-2011 19:00:00
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110414_203605_000041443101_00273_47701_2907.N1	277	14-APR-2011 20:40:15
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110414_215028_000057383101_00273_47701_2908.N1	293	14-APR-2011 21:50:51
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110414_233125_000057383101_00274_47702_2909.N1	317	14-APR-2011 23:47:22

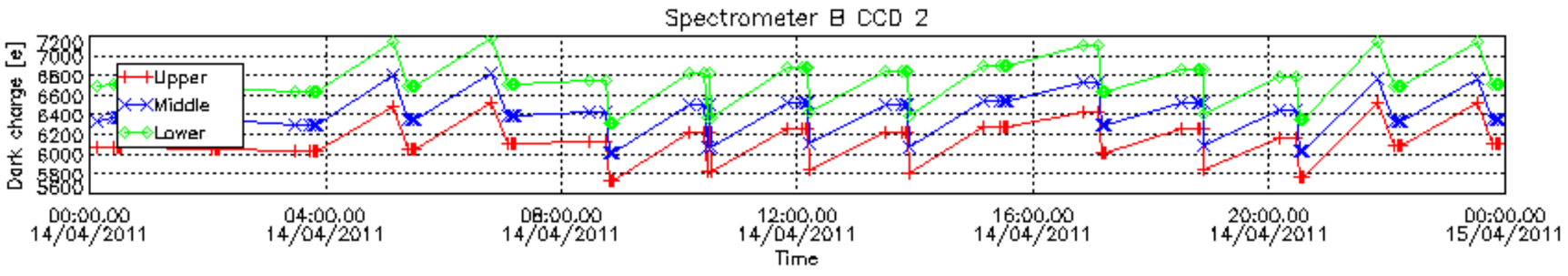

00:00.00
15/04/2011
20:00.00
14/04/2011
16:00.00
14/04/2011
12:00.00
14/04/2011
08:00.00
14/04/2011
04:00.00
14/04/2011
00:00.00
14/04/2011
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

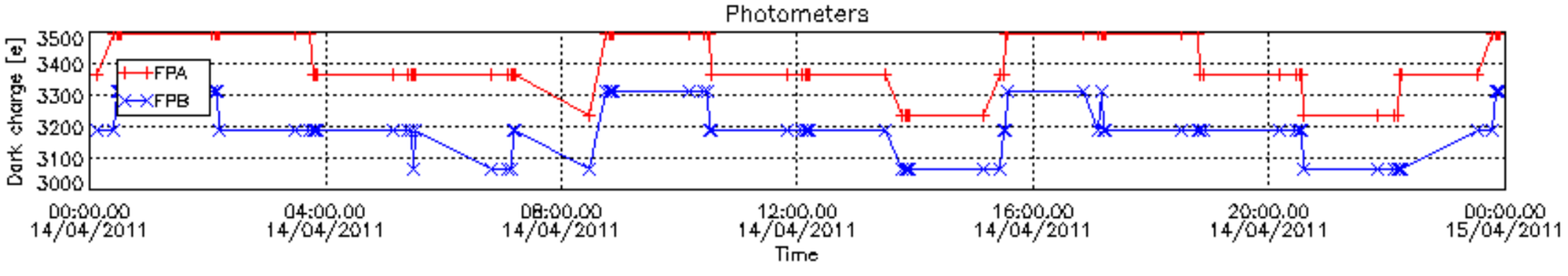

Spectrometers
var_temp_sp[C]
4
3
2
1
0
−1
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
14/04/2011
04:00.00
14/04/2011
08:00.00
14/04/2011
12:00.00
14/04/2011
16:00.00
14/04/2011
20:00.00
14/04/2011
00:00.00
15/04/2011
Time
Photometers
var_temp_fp [C]
7.4
7.2
7.0
6.8
6.6
6.4
6.2
6.0
5.8
FPA
FPB
00:00.00
14/04/2011
04:00.00
14/04/2011
08:00.00
14/04/2011
12:00.00
14/04/2011
16:00.00
14/04/2011
20:00.00
14/04/2011
00:00.00
15/04/2011
Time


Spectrometer A CCD 1
Dark charge [e]
6400
6200
6000
5800
5600
5400
5200
5000
Upper
Middle
Lower
00:00.00 14/04/2011
04:00.00 14/04/2011
08:00.00 14/04/2011
12:00.00 14/04/2011
16:00.00 14/04/2011
20:00.00 14/04/2011
00:00.00 15/04/2011
Time


Spectrometer A CCD 2
Dark charge [e]
6200
6000
5800
5600
5400
5200
5000
Upper
Middle
Lower
00:00.00 14/04/2011
04:00.00 14/04/2011
08:00.00 14/04/2011
12:00.00 14/04/2011
16:00.00 14/04/2011
20:00.00 14/04/2011
00:00.00 15/04/2011
Time

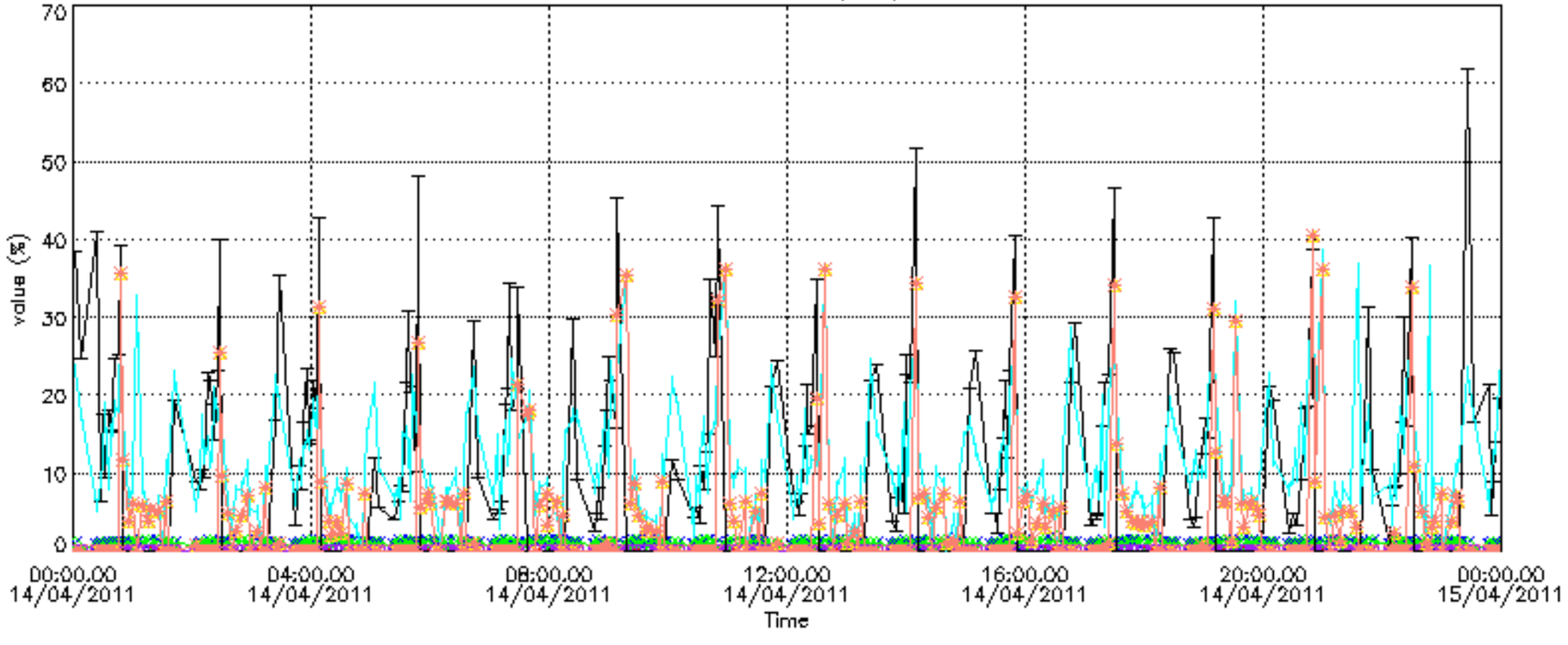

Spectrometer B CCD 1
Dark charge [e]
8000
7500
7000
6500
6000
5500
Upper
Middle
Lower
00:00.00 14/04/2011
04:00.00 14/04/2011
08:00.00 14/04/2011
12:00.00 14/04/2011
16:00.00 14/04/2011
20:00.00 14/04/2011
00:00.00 15/04/2011
Time

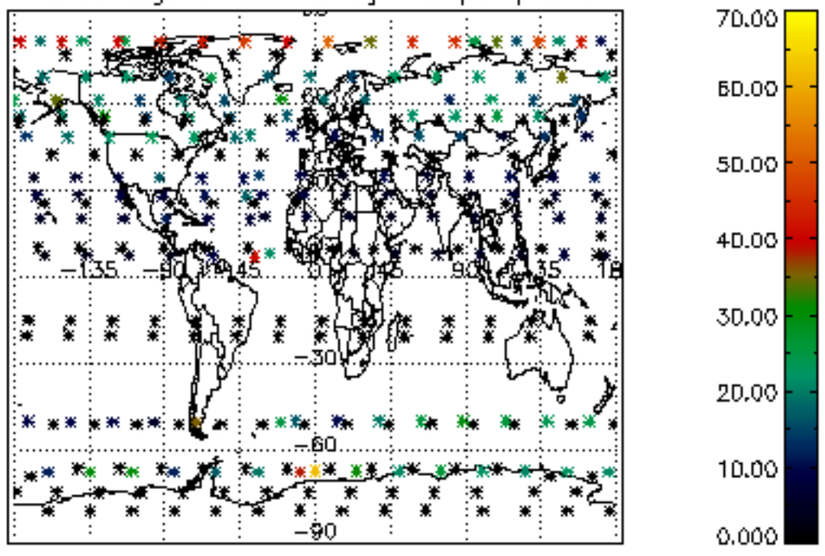

Spectrometer B CCD 2
Dark charge [e]
7200
7000
6800
6600
6400
6200
6000
5800
5600
Upper
Middle
Lower
00:00.00 14/04/2011
04:00.00 14/04/2011
08:00.00 14/04/2011
12:00.00 14/04/2011
16:00.00 14/04/2011
20:00.00 14/04/2011
00:00.00 15/04/2011
Time

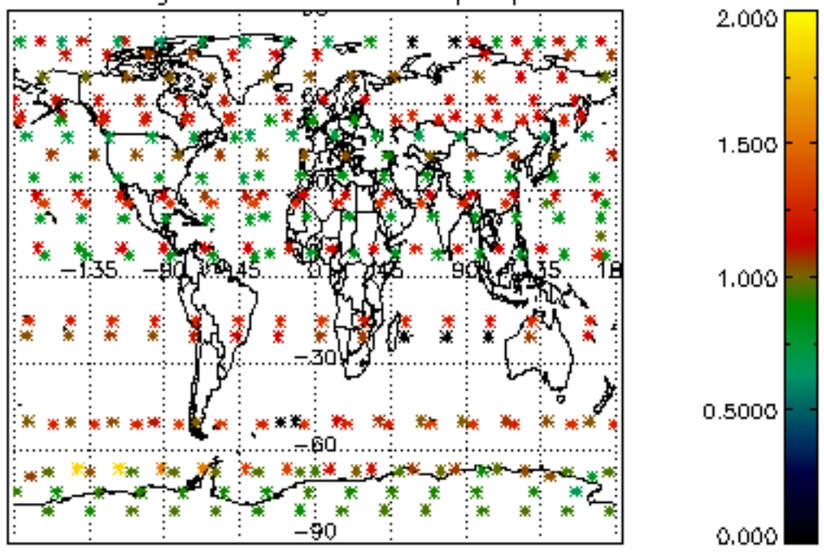

Photometers
Dark charge [e]
3500
3400
3300
3200
3100
3000
FPA
FPB
00:00.00 14/04/2011
04:00.00 14/04/2011
08:00.00 14/04/2011
12:00.00 14/04/2011
16:00.00 14/04/2011
20:00.00 14/04/2011
00:00.00 15/04/2011
Time

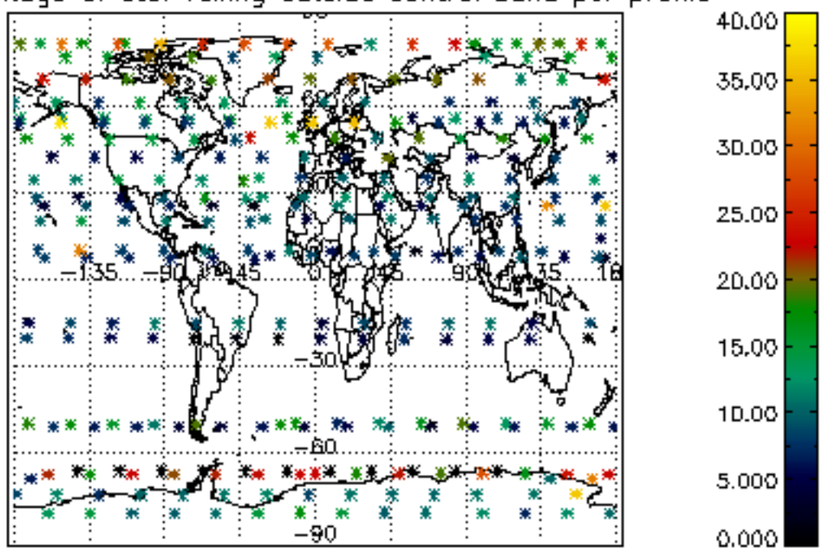
with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm

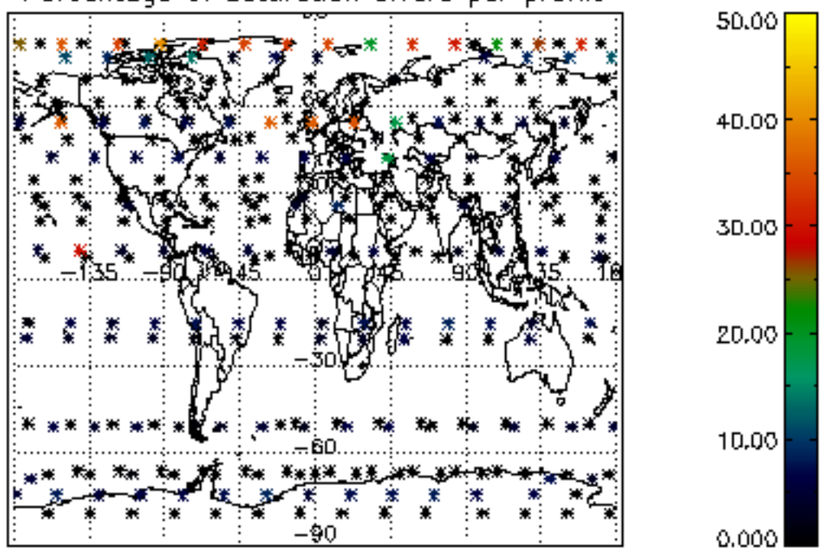
% of measurements per product:



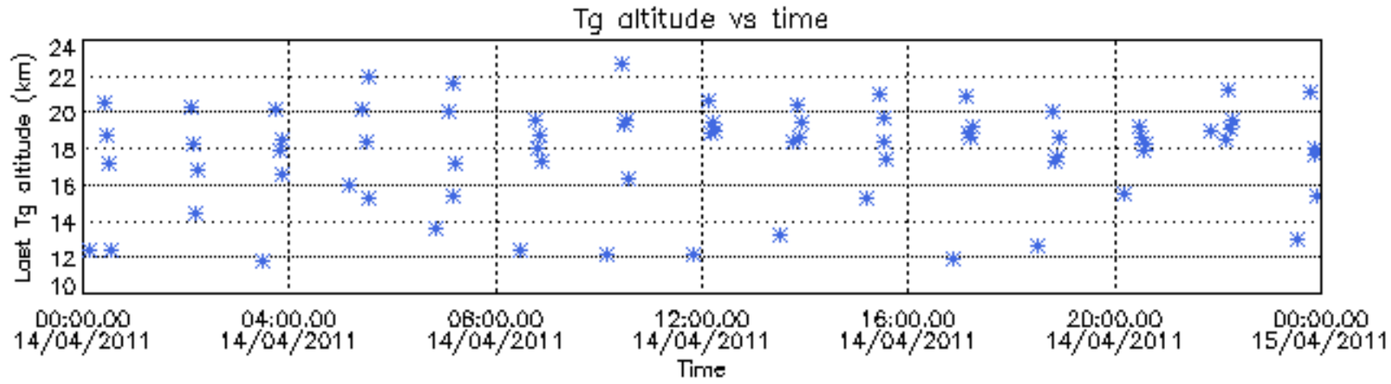

Percentage of cosmic ray hits per profile
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90

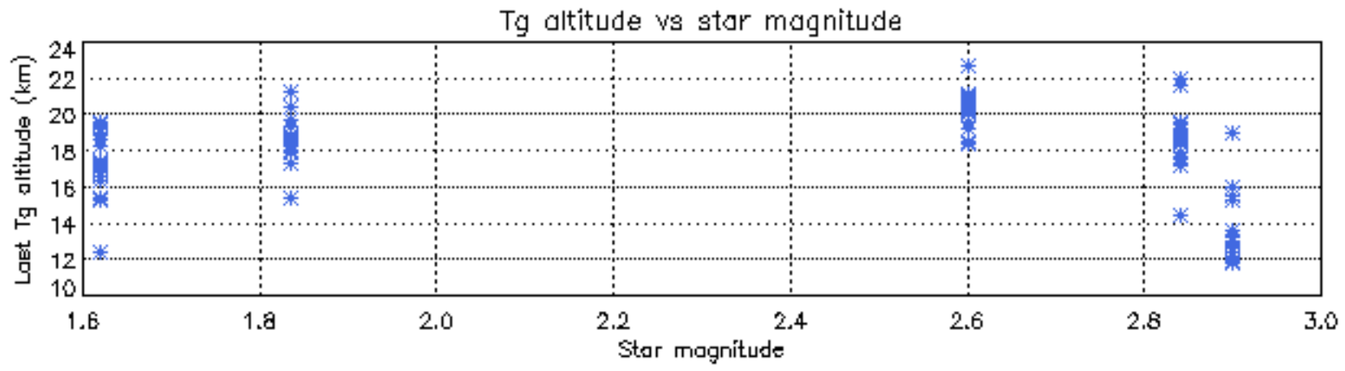

Percentage of datation errors per profile
2.000
1.500
1.000
0.5000
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90

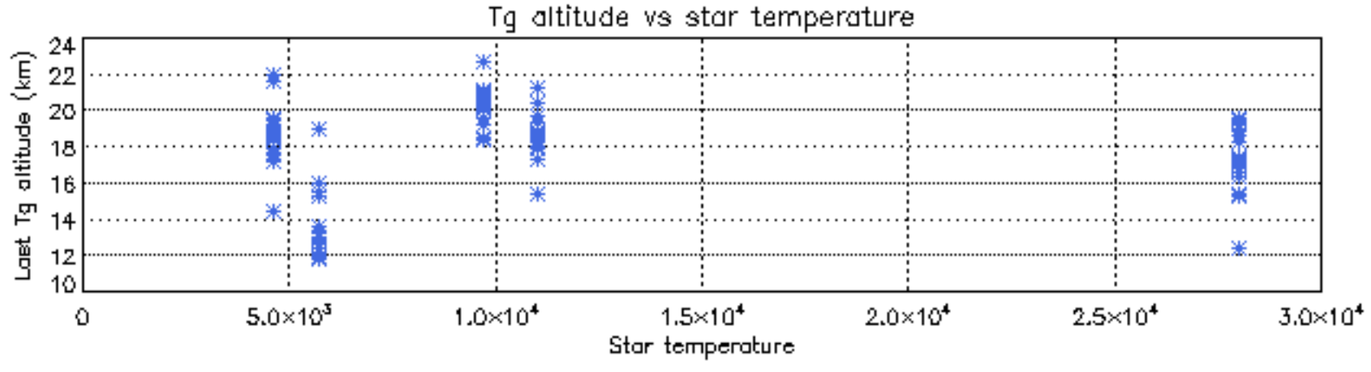

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90


Percentage of saturation errors per profile
50.00
40.00
30.00
20.00
10.00
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90

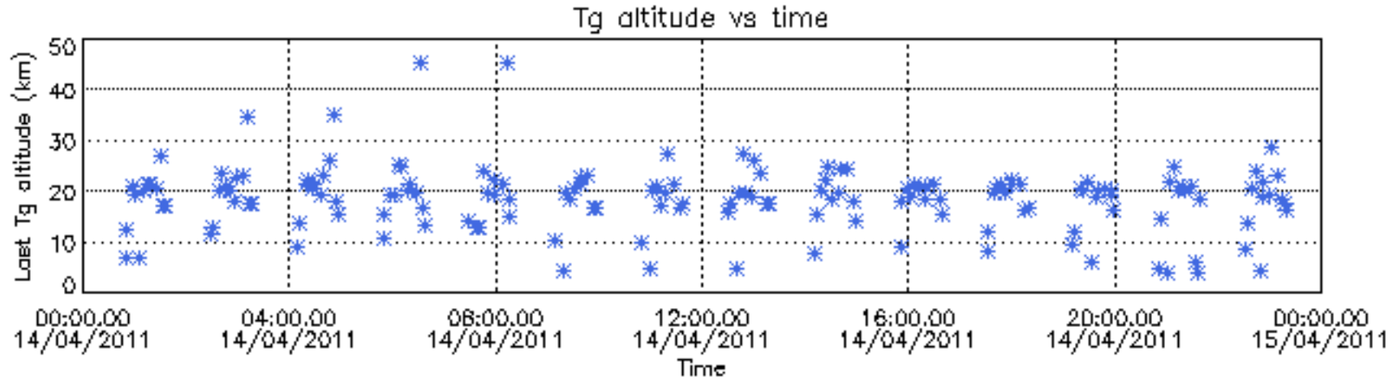
Tangent altitude at which the star is lost

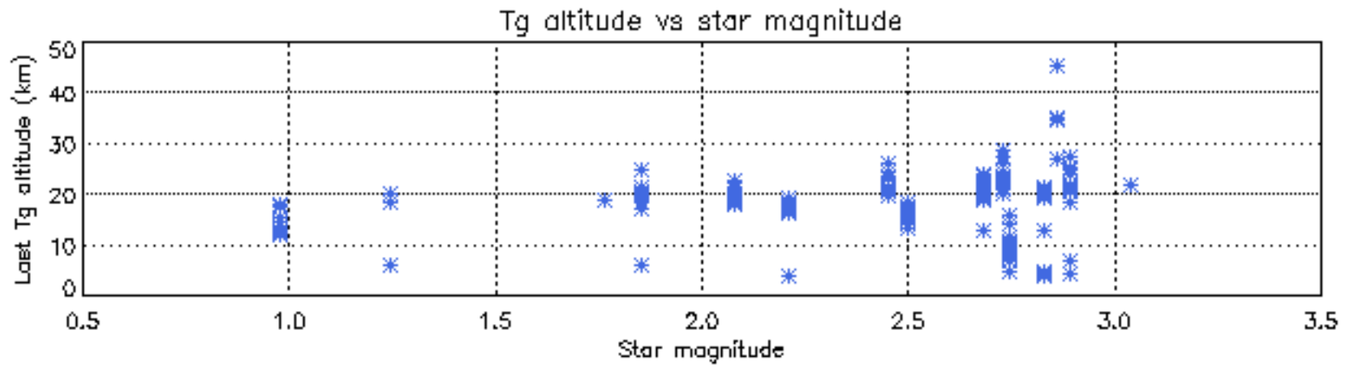


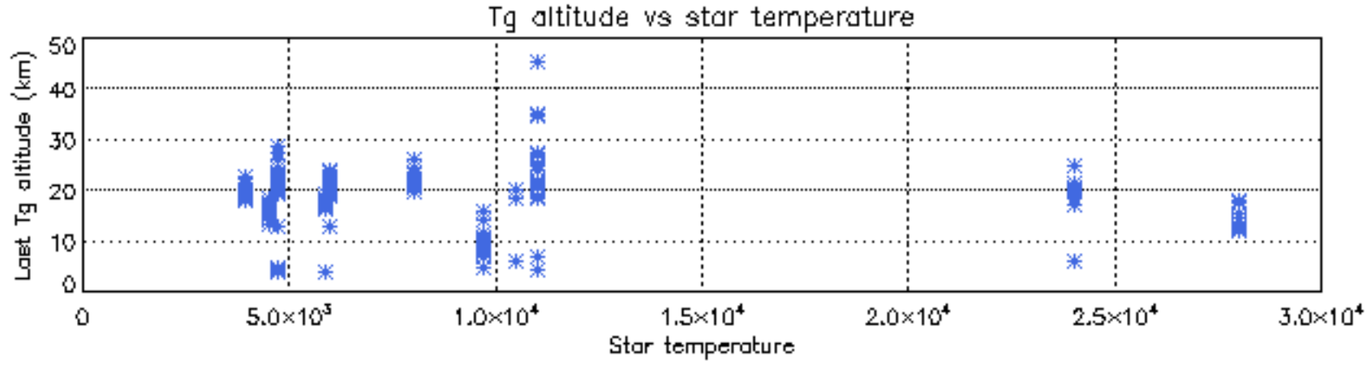




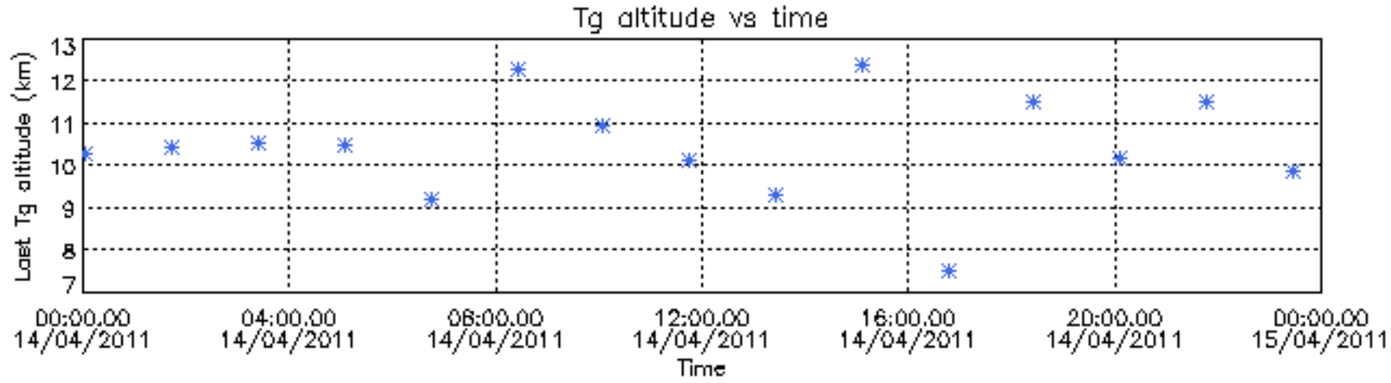
Tangent altitude at which the star is lost

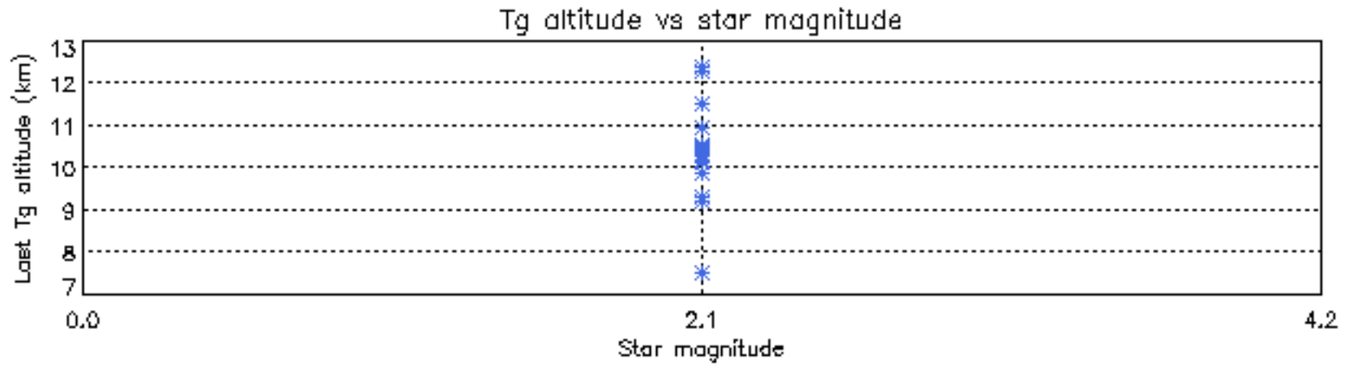


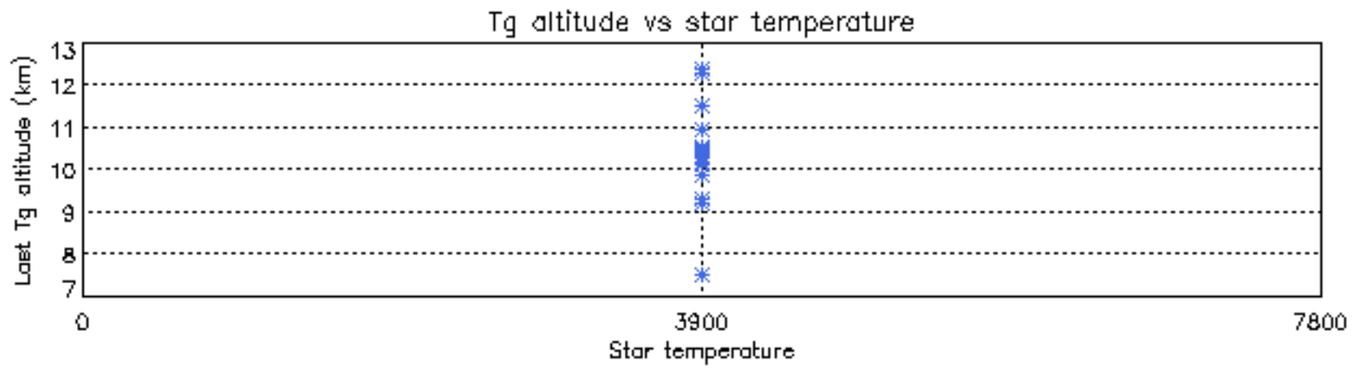


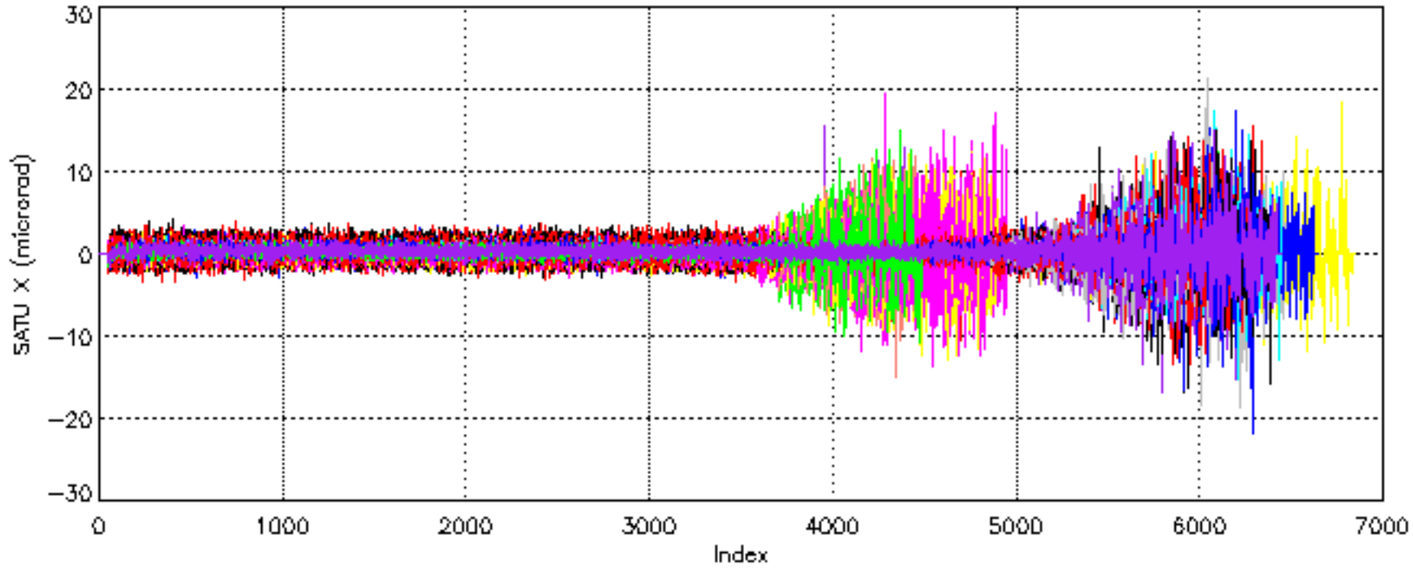


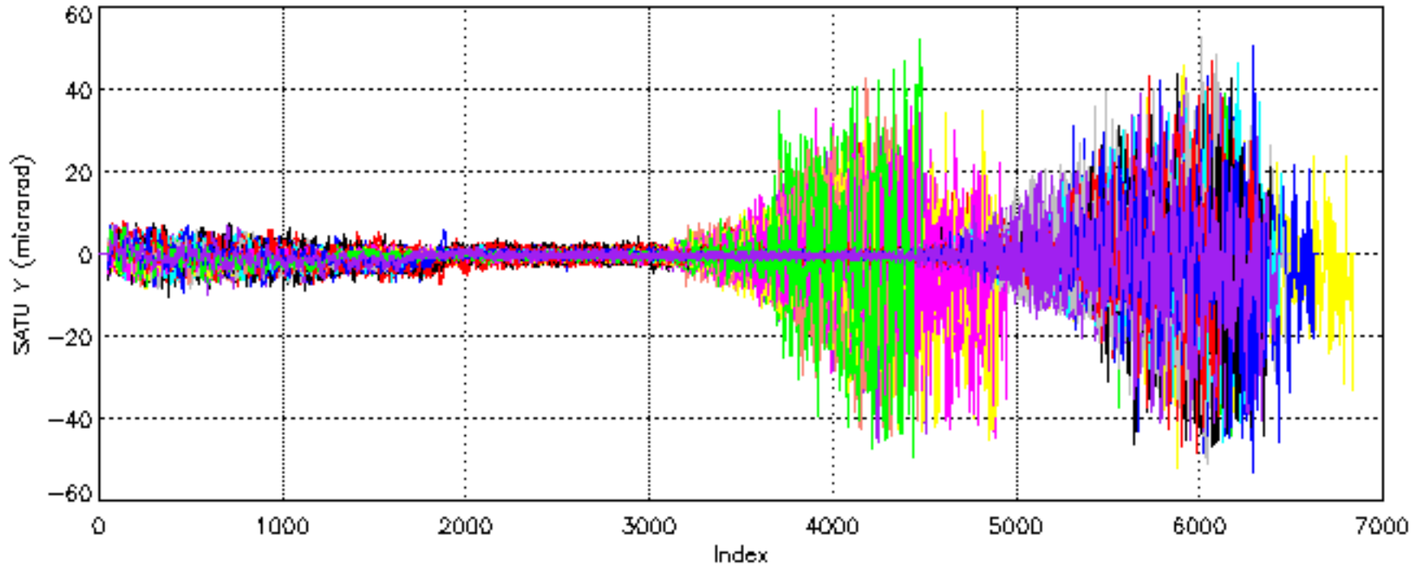
Tangent altitude at which the star is lost

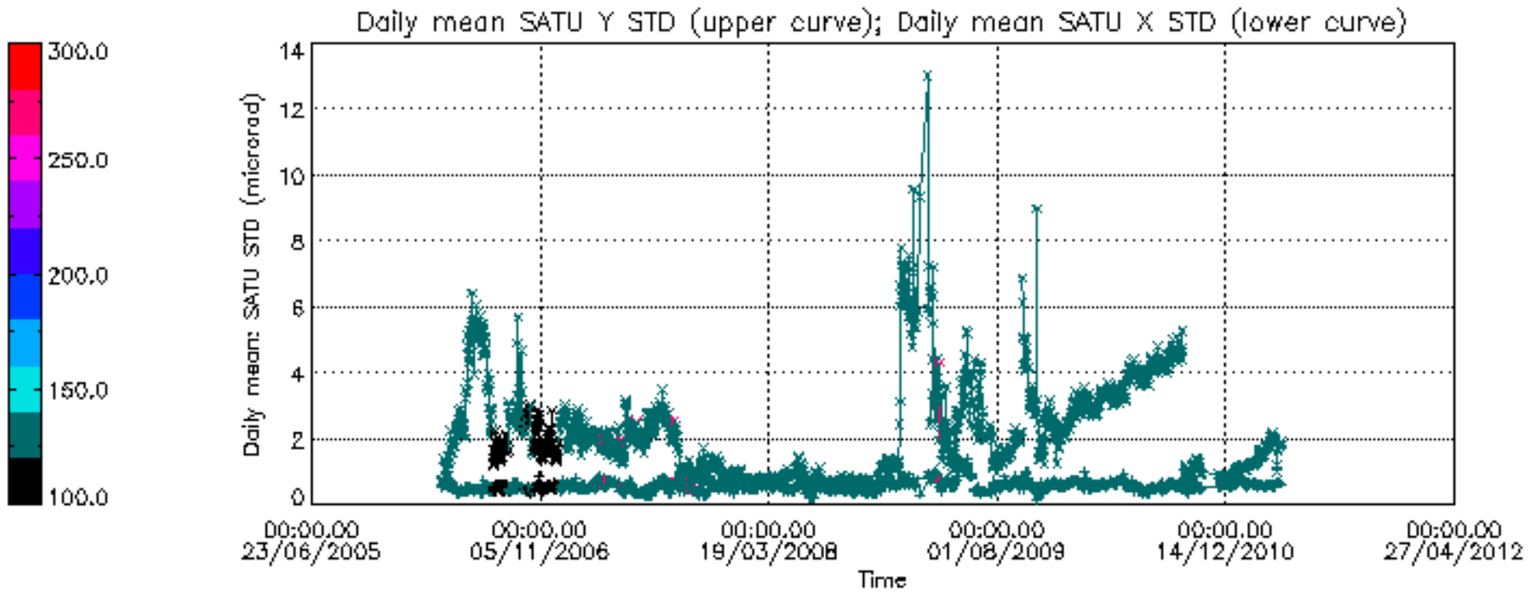







30
20
10
0
−10
−20
−30
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
7000
Index


60
40
20
0
−20
−40
−60
S4TU Y (microrad)
0
1000
2000
3000
4000
5000
6000
7000
Index


Daily mean SATU Y STD (upper curve); Daily mean SATU X STD (lower curve)
300.0
250.0
200.0
150.0
100.0
Daily mean: SATU STD (microrad)
14
12
10
8
6
4
2
0
00:00.00 23/06/2005
00:00.00 05/11/2006
00:00.00 19/03/2008
00:00.00 01/08/2009
00:00.00 14/12/2010
00:00.00 27/04/2012
Time

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20110401_013316_000096793101_00074_47502_2571.N1
1; -306.9; 01-APR-2011 01:33:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;47502
2; -143.9; 01-APR-2011 01:35:59; Dark ; 52.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 104; 0;47502
3; 295.7; 01-APR-2011 01:43:19; Dark ; 52.5; 40; The Sco ; 1.86; 7100;occ; 105; 0;47503
4; 512.8; 01-APR-2011 01:46:56; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;47503
5; 670.4; 01-APR-2011 01:49:33; Dark ; 56.0; 4; Alp1Cen ;-0.01; 5800;occ; 112; 0;47503
6; 835.1; 01-APR-2011 01:52:18; Dark ; 47.0; 78; Alp Lup ; 2.30; 28000;occ; 94; 0;47503
7; 930.9; 01-APR-2011 01:53:54; Dark ; 46.5; 81; Eta Cen ; 2.36; 28000;occ; 93; 0;47503
8; 1093.7; 01-APR-2011 01:56:37; Dark ; 51.0; 54; 5The Cen ; 2.06; 4500;occ; 102; 0;47503
9; 1450.9; 01-APR-2011 02:02:34; Dark ; 49.5; 106; 9Bet Crv ; 2.65; 5600;occ; 99; 0;47503
10; 1568.0; 01-APR-2011 02:04:31; Dark ; 45.5; 100; 4Gam Crv ; 2.58; 13100;occ; 91; 0;47503
11; 1675.4; 01-APR-2011 02:06:18; Dark ; 54.0; 15; 67Alp Vir ; 0.98; 28000;occ; 108; 0;47503
12; 1869.7; 01-APR-2011 02:09:33; Bright; 43.5; 121; 29Gam Vir ; 2.74; 7200;occ; 87; 0;47503
13; 2146.7; 01-APR-2011 02:14:10; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;47503
14; 2650.8; 01-APR-2011 02:22:34; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;47503
15; 2830.6; 01-APR-2011 02:25:34; Bright; 51.0; 87; 64Gam UMa ; 2.43; 11000;occ; 102; 0;47503
16; 2941.2; 01-APR-2011 02:27:24; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;47503
17; 3317.4; 01-APR-2011 02:33:40; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;47503
18; 3882.0; 01-APR-2011 02:43:05; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;47503
19; 4176.1; 01-APR-2011 02:47:59; Bright; 68.0; 144; 18Del Cyg ; 2.86; 11000;occ; 136; 0;47503
20; 4290.9; 01-APR-2011 02:49:54; Bright; 44.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 89; 0;47503
21; 4413.0; 01-APR-2011 02:51:56; Bright; 45.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 90; 0;47503
22; 5708.0; 01-APR-2011 03:13:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;47503
23; 5871.4; 01-APR-2011 03:16:14; Dark ; 52.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 104; 0;47503
24; 6085.2; 01-APR-2011 03:19:48; Dark ; 55.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 110; 0;47504
25; 6310.8; 01-APR-2011 03:23:34; Dark ; 56.0; 40; The Sco ; 1.86; 7100;occ; 112; 0;47504
26; 6527.3; 01-APR-2011 03:27:10; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;47504
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 13; 3436.6; 05-APR-2011 20:11:31; Bright; 45.5; 119; 14Eta Dra ; 2.73; 4700;occ; 91;   0;47571
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  14; 6624.1; 28-APR-2011 10:20:12; Dark  ;  49.5;  141;   Bet Ara  ; 2.84;  4600;occ;  99;   0;47896
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