GOMOS Daily Report 11-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
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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.

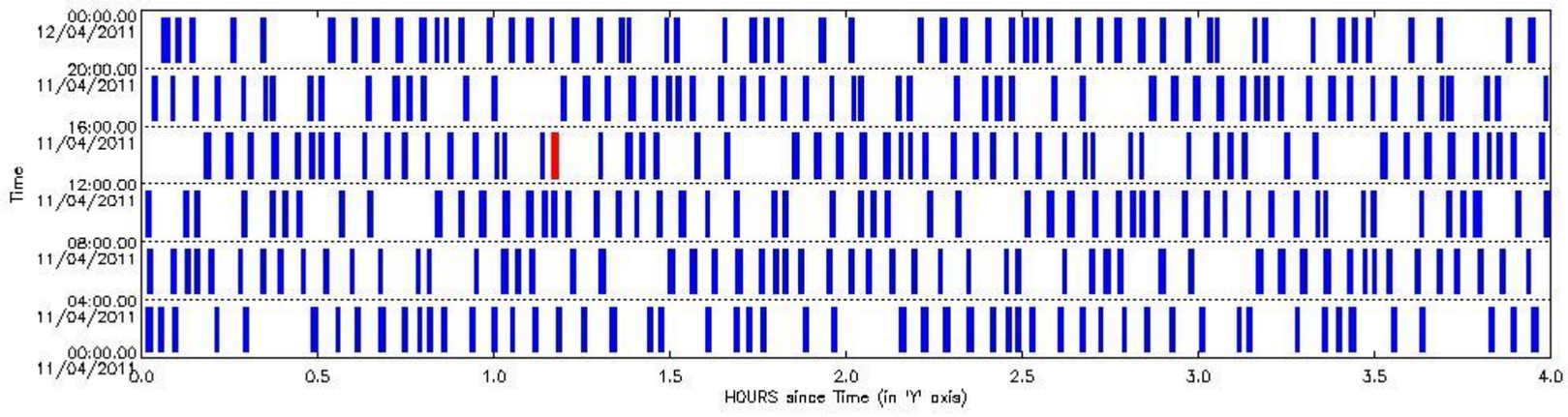
Item	Value
Time of report generation	14APR2011 07:06:22
Data source version	GOMOS/5.01
Start time of products	11APR2011 00:00:34
Stop time of products	11APR2011 23:59:50
Store outputs in DB	Yes
Nb of level 1b prods	322
Nb of prods with errors	1

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
11-APR-2011 13:09:42	14EtaDra	119	47653

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_1PNPDE20110411_000034_000000773101_00217_47645_4391.N1	11-APR-2011 00:00:34	Bright	77.000	144	18Del Cyg	2.8600	11000.	154	47645	No
2	GOM_TRA_1PNPDE20110411_000254_000000513101_00217_47645_4392.N1	11-APR-2011 00:02:54	Bright	51.000	66	37Gam Cyg	2.2080	5900.0	102	47645	No
3	GOM_TRA_1PNPDE20110411_000516_000000483101_00217_47645_4393.N1	11-APR-2011 00:05:16	Bright	48.000	92	53Eps Cyg	2.5000	4500.0	96	47645	No
4	GOM_TRA_1PNPDE20110411_001221_000000483101_00217_47645_4394.N1	11-APR-2011 00:12:21	Twi_and_stray	47.500	61	8Eps Peg	2.1000	3900.0	95	47645	No
5	GOM_TRA_1PNPDE20110411_001714_000000463101_00217_47645_4395.N1	11-APR-2011 00:17:14	Dark	45.500	154	22Bet Aqr	2.8990	5700.0	91	47645	No
6	GOM_TRA_1PNPDE20110411_003303_000000343101_00218_47646_4401.N1	11-APR-2011 00:33:03	Dark	34.000	57	34Sig Sgr	2.0660	26000.	68	47646	No
7	GOM_TRA_1PNPDE20110411_003613_000000603101_00218_47646_4402.N1	11-APR-2011 00:36:13	Dark	59.500	38	20Eps Sgr	1.8360	11000.	119	47646	No
8	GOM_TRA_1PNPDE20110411_004019_000000623101_00218_47646_4403.N1	11-APR-2011 00:40:19	Dark	61.500	25	35Lam Sco	1.6200	28000.	123	47646	No
9	GOM_TRA_1PNPDE20110411_004423_000000493101_00218_47646_4404.N1	11-APR-2011 00:44:23	Straylight	49.000	75	26Eps Sco	2.2910	4250.0	98	47646	No
10	GOM_TRA_1PNPDE20110411_004659_000000433101_00218_47646_4405.N1	11-APR-2011 00:46:59	Straylight	42.500	78	Alp Lup	2.3040	28000.	85	47646	No

11	GOM_TRA_1PNPDE20110411_004834_000000463101_00218_47646_4406.N1	11-APR-2011 00:48:34	Straylight	45.500	81	Eta Cen	2.3560	28000.	91	47646	No
12	GOM_TRA_1PNPDE20110411_005102_000000523101_00218_47646_4407.N1	11-APR-2011 00:51:02	Straylight	51.500	54	5The Cen	2.0550	4500.0	103	47646	No
13	GOM_TRA_1PNPDE20110411_005555_000000443101_00218_47646_4408.N1	11-APR-2011 00:55:55	Twi_and_stray	43.500	169	46Gam Hya	2.9910	4700.0	87	47646	No
14	GOM_TRA_1PNPDE20110411_005941_000000493101_00218_47646_4409.N1	11-APR-2011 00:59:41	Bright	49.000	15	67Alp Vir	0.97600	28000.	98	47646	No
15	GOM_TRA_1PNPDE20110411_010245_000000403101_00218_47646_4410.N1	11-APR-2011 01:02:45	Bright	39.500	121	29Gam Vir	2.7400	7200.0	79	47646	No
16	GOM_TRA_1PNPDE20110411_010643_000000423101_00218_47646_4411.N1	11-APR-2011 01:06:43	Bright	41.500	138	47Eps Vir	2.8280	4700.0	83	47646	No
17	GOM_TRA_1PNPDE20110411_011030_000000513101_00218_47646_4412.N1	11-APR-2011 01:10:30	Bright	50.500	111	8Eta Boo	2.6800	6000.0	101	47646	No
18	GOM_TRA_1PNPDE20110411_011456_000000403101_00218_47646_4413.N1	11-APR-2011 01:14:56	Bright	39.500	152	12Alp2CVn	2.8900	11000.	79	47646	No
19	GOM_TRA_1PNPDE20110411_011951_000000573101_00218_47646_4414.N1	11-APR-2011 01:19:51	Bright	57.000	32	77Eps UMa	1.7630	11000.	114	47646	No
20	GOM_TRA_1PNPDE20110411_012616_000000413101_00218_47646_4415.N1	11-APR-2011 01:26:16	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47646	No
21	GOM_TRA_1PNPDE20110411_012805_000000453101_00218_47646_4416.N1	11-APR-2011 01:28:05	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	47646	No
22	GOM_TRA_1PNPDE20110411_013611_000000393101_00218_47646_4417.N1	11-APR-2011 01:36:11	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	47646	No
23	GOM_TRA_1PNPDE20110411_014048_000000523101_00218_47646_4418.N1	11-APR-2011 01:40:48	Bright	51.500	144	18Del Cyg	2.8600	11000.	103	47646	No
24	GOM_TRA_1PNPDE20110411_014308_000000483101_00218_47646_4419.N1	11-APR-2011 01:43:08	Bright	47.500	66	37Gam Cyg	2.2080	5900.0	95	47646	No
25	GOM_TRA_1PNPDE20110411_014530_000000503101_00218_47646_4420.N1	11-APR-2011 01:45:30	Bright	50.000	92	53Eps Cyg	2.5000	4500.0	100	47646	No
26	GOM_TRA_1PNPDE20110411_015235_000000473101_00218_47646_4421.N1	11-APR-2011 01:52:35	Twilight	46.500	61	8Eps Peg	2.1000	3900.0	93	47646	No
27	GOM_TRA_1PNPDE20110411_015729_000000473101_00218_47646_4424.N1	11-APR-2011 01:57:29	Dark	46.500	154	22Bet Aqr	2.8990	5700.0	93	47646	Yes
28	GOM_TRA_1PNPDE20110411_021251_000000593101_00219_47647_4425.N1	11-APR-2011 02:12:51	Dark	58.500	103	38Zet Sgr	2.6000	9700.0	117	47647	No
29	GOM_TRA_1PNPDE20110411_021629_000000603101_00219_47647_4426.N1	11-APR-2011 02:16:29	Dark	59.500	38	20Eps Sgr	1.8360	11000.	119	47647	No
30	GOM_TRA_1PNPDE20110411_022034_000000663101_00219_47647_4427.N1	11-APR-2011 02:20:34	Dark	66.000	25	35Lam Sco	1.6200	28000.	132	47647	No
31	GOM_TRA_1PNPDE20110411_022438_000000493101_00219_47647_4428.N1	11-APR-2011 02:24:38	Straylight	49.000	75	26Eps Sco	2.2910	4250.0	98	47647	No
32	GOM_TRA_1PNPDE20110411_022713_000000463101_00219_47647_4429.N1	11-APR-2011 02:27:13	Straylight	45.500	78	Alp Lup	2.3040	28000.	91	47647	No
33	GOM_TRA_1PNPDE20110411_022849_000000463101_00219_47647_4430.N1	11-APR-2011 02:28:49	Straylight	45.500	81	Eta Cen	2.3560	28000.	91	47647	No
34	GOM_TRA_1PNPDE20110411_023116_000000513101_00219_47647_4431.N1	11-APR-2011 02:31:16	Straylight	51.000	54	5The Cen	2.0550	4500.0	102	47647	No
35	GOM_TRA_1PNPDE20110411_023609_000000493101_00219_47647_4432.N1	11-APR-2011 02:36:09	Twi_and_stray	48.500	169	46Gam Hya	2.9910	4700.0	97	47647	No
36	GOM_TRA_1PNPDE20110411_023955_000000483101_00219_47647_4433.N1	11-APR-2011 02:39:55	Bright	47.500	15	67Alp Vir	0.97600	28000.	95	47647	No
37	GOM_TRA_1PNPDE20110411_024259_000000393101_00219_47647_4434.N1	11-APR-2011 02:42:59	Bright	39.000	121	29Gam Vir	2.7400	7200.0	78	47647	No
38	GOM_TRA_1PNPDE20110411_024656_000000423101_00219_47647_4435.N1	11-APR-2011 02:46:56	Bright	41.500	138	47Eps Vir	2.8280	4700.0	83	47647	No
39	GOM_TRA_1PNPDE20110411_025043_000000523101_00219_47647_4436.N1	11-APR-2011 02:50:43	Bright	51.500	111	8Eta Boo	2.6800	6000.0	103	47647	No
40	GOM_TRA_1PNPDE20110411_025509_000000393101_00219_47647_4437.N1	11-APR-2011 02:55:09	Bright	38.500	152	12Alp2CVn	2.8900	11000.	77	47647	No
41	GOM_TRA_1PNPDE20110411_030005_000000573101_00219_47647_4438.N1	11-APR-2011 03:00:05	Bright	57.000	32	77Eps UMa	1.7630	11000.	114	47647	No
42	GOM_TRA_1PNPDE20110411_030629_000000423101_00219_47647_4439.N1	11-APR-2011 03:06:29	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	47647	No
43	GOM_TRA_1PNPDE20110411_030819_000000493101_00219_47647_4440.N1	11-APR-2011 03:08:19	Bright	48.500	119	14Eta Dra	2.7270	4700.0	97	47647	No
44	GOM_TRA_1PNPDE20110411_031625_000000403101_00219_47647_4450.N1	11-APR-2011 03:16:25	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	47647	No
45	GOM_TRA_1PNPDE20110411_032102_000000533101_00219_47647_4451.N1	11-APR-2011 03:21:02	Bright	52.500	144	18Del Cyg	2.8600	11000.	105	47647	No
46	GOM_TRA_1PNPDE20110411_032322_000000523101_00219_47647_4452.N1	11-APR-2011 03:23:22	Bright	52.000	66	37Gam Cyg	2.2080	5900.0	104	47647	No
47	GOM_TRA_1PNPDE20110411_032544_000000523101_00219_47647_4453.N1	11-APR-2011 03:25:44	Bright	52.000	92	53Eps Cyg	2.5000	4500.0	104	47647	No
48	GOM_TRA_1PNPDE20110411_033249_000000503101_00219_47647_4454.N1	11-APR-2011 03:32:49	Twilight	49.500	61	8Eps Peg	2.1000	3900.0	99	47647	No
49	GOM_TRA_1PNPDE20110411_033743_000000483101_00219_47647_4455.N1	11-APR-2011 03:37:43	Dark	48.000	154	22Bet Aqr	2.8990	5700.0	96	47647	No
50	GOM_TRA_1PNPDE20110411_035307_000000603101_00220_47648_4456.N1	11-APR-2011 03:53:07	Dark	59.500	103	38Zet Sgr	2.6000	9700.0	119	47648	No
51	GOM_TRA_1PNPDE20110411_035645_000000613101_00220_47648_4457.N1	11-APR-2011 03:56:45	Dark	60.500	38	20Eps Sgr	1.8360	11000.	121	47648	No
52	GOM_TRA_1PNPDE20110411_040050_000000613101_00220_47648_4458.N1	11-APR-2011 04:00:50	Dark	60.500	25	35Lam Sco	1.6200	28000.	121	47648	No
53	GOM_TRA_1PNPDE20110411_040453_000000503101_00220_47648_4459.N1	11-APR-2011 04:04:53	Straylight	50.000	75	26Eps Sco	2.2910	4250.0	100	47648	No
54	GOM_TRA_1PNPDE20110411_040728_000000423101_00220_47648_4460.N1	11-APR-2011 04:07:28	Straylight	42.000	78	Alp Lup	2.3040	28000.	84	47648	No
55	GOM_TRA_1PNPDE20110411_040903_000000423101_00220_47648_4461.N1	11-APR-2011 04:09:03	Straylight	42.000	81	Eta Cen	2.3560	28000.	84	47648	No
56	GOM_TRA_1PNPDE20110411_041130_000000473101_00220_47648_4462.N1	11-APR-2011 04:11:30	Straylight	46.500	54	5The Cen	2.0550	4500.0	93	47648	No
57	GOM_TRA_1PNPDE20110411_041623_000000453101_00220_47648_4463.N1	11-APR-2011 04:16:23	Twi_and_stray	44.500	169	46Gam Hya	2.9910	4700.0	89	47648	No
58	GOM_TRA_1PNPDE20110411_042009_000000473101_00220_47648_4464.N1	11-APR-2011 04:20:09	Bright	46.500	15	67Alp Vir	0.97600	28000.	93	47648	No
59	GOM_TRA_1PNPDE20110411_042314_000000393101_00220_47648_4465.N1	11-APR-2011 04:23:14	Bright	39.000	121	29Gam Vir	2.7400	7200.0	78	47648	No
60	GOM_TRA_1PNPDE20110411_042710_000000413101_00220_47648_4466.N1	11-APR-2011 04:27:10	Bright	40.500	138	47Eps Vir	2.8280	4700.0	81	47648	No
61	GOM_TRA_1PNPDE20110411_043056_000000513101_00220_47648_4467.N1	11-APR-2011 04:30:56	Bright	51.000	111	8Eta Boo	2.6800	6000.0	102	47648	No
62	GOM_TRA_1PNPDE20110411_043523_000000403101_00220_47648_4468.N1	11-APR-2011 04:35:23	Bright	39.500	152	12Alp2CVn	2.8900	11000.	79	47648	No
63	GOM_TRA_1PNPDE20110411_044018_000000383101_00220_47648_4469.N1	11-APR-2011 04:40:18	Bright	37.500	32	77Eps UMa	1.7630	11000.	75	47648	No
64	GOM_TRA_1PNPDE20110411_044643_000000413101_00220_47648_4470.N1	11-APR-2011 04:46:43	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47648	No
65	GOM_TRA_1PNPDE20110411_044832_000000473101_00220_47648_4471.N1	11-APR-2011 04:48:32	Bright	47.000	119	14Eta Dra	2.7270	4700.0	94	47648	No
66	GOM_TRA_1PNPDE20110411_045639_000000373101_00220_47648_4474.N1	11-APR-2011 04:56:39	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	47648	No
67	GOM_TRA_1PNPDE20110411_050116_000000573101_00220_47648_4475.N1	11-APR-2011 05:01:16	Bright	56.500	144	18Del Cyg	2.8600	11000.	113	47648	No
68	GOM_TRA_1PNPDE20110411_050336_000000513101_00220_47648_4476.N1	11-APR-2011 05:03:36	Bright	51.000	66	37Gam Cyg	2.2080	5900.0	102	47648	No
69	GOM_TRA_1PNPDE20110411_050558_000000513101_00220_47648_4477.N1	11-APR-2011 05:05:58	Bright	50.500	92	53Eps Cyg	2.5000	4500.0	101	47648	No

70	GOM_TRA_1PNPDE20110411_051304_000000493101_00220_47648_4478.N1	11-APR-2011 05:13:04	Twilight	49.000	61	8Eps Peg	2.1000	3900.0	98	47648	No
71	GOM_TRA_1PNPDE20110411_051758_000000513101_00220_47648_4479.N1	11-APR-2011 05:17:58	Dark	50.500	154	22Bet Aqr	2.8990	5700.0	101	47648	No
72	GOM_TRA_1PNPDE20110411_053322_000000593101_00221_47649_4480.N1	11-APR-2011 05:33:22	Dark	59.000	103	38Zet Sgr	2.6000	9700.0	118	47649	No
73	GOM_TRA_1PNPDE20110411_053700_000000633101_00221_47649_4481.N1	11-APR-2011 05:37:00	Dark	62.500	38	20Eps Sgr	1.8360	11000.	125	47649	No
74	GOM_TRA_1PNPDE20110411_054106_000000643101_00221_47649_4482.N1	11-APR-2011 05:41:06	Dark	63.500	25	35Lam Sco	1.6200	28000.	127	47649	No
75	GOM_TRA_1PNPDE20110411_054509_000000503101_00221_47649_4483.N1	11-APR-2011 05:45:09	Straylight	50.000	75	26Eps Sco	2.2910	4250.0	100	47649	No
76	GOM_TRA_1PNPDE20110411_054742_000000443101_00221_47649_4484.N1	11-APR-2011 05:47:42	Straylight	43.500	78	Alp Lup	2.3040	28000.	87	47649	No
77	GOM_TRA_1PNPDE20110411_054918_000000453101_00221_47649_4485.N1	11-APR-2011 05:49:18	Straylight	44.500	81	Eta Cen	2.3560	28000.	89	47649	No
78	GOM_TRA_1PNPDE20110411_055145_000000503101_00221_47649_4486.N1	11-APR-2011 05:51:45	Straylight	49.500	54	5The Cen	2.0550	4500.0	99	47649	No
79	GOM_TRA_1PNPDE20110411_055638_000000453101_00221_47649_4487.N1	11-APR-2011 05:56:38	Twi_and_stray	45.000	169	46Gam Hya	2.9910	4700.0	90	47649	No
80	GOM_TRA_1PNPDE20110411_060023_000000513101_00221_47649_4488.N1	11-APR-2011 06:00:23	Bright	51.000	15	67Alp Vir	0.97600	28000.	102	47649	No
81	GOM_TRA_1PNPDE20110411_060328_000000393101_00221_47649_4489.N1	11-APR-2011 06:03:28	Bright	39.000	121	29Gam Vir	2.7400	7200.0	78	47649	No
82	GOM_TRA_1PNPDE20110411_060724_000000423101_00221_47649_4490.N1	11-APR-2011 06:07:24	Bright	42.000	138	47Eps Vir	2.8280	4700.0	84	47649	No
83	GOM_TRA_1PNPDE20110411_061110_000000503101_00221_47649_4491.N1	11-APR-2011 06:11:10	Bright	50.000	111	8Eta Boo	2.6800	6000.0	100	47649	No
84	GOM_TRA_1PNPDE20110411_061537_000000383101_00221_47649_4492.N1	11-APR-2011 06:15:37	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	47649	No
85	GOM_TRA_1PNPDE20110411_062032_000000403101_00221_47649_4493.N1	11-APR-2011 06:20:32	Bright	39.500	32	77Eps UMa	1.7630	11000.	79	47649	No
86	GOM_TRA_1PNPDE20110411_062657_000000413101_00221_47649_4494.N1	11-APR-2011 06:26:57	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47649	No
87	GOM_TRA_1PNPDE20110411_062845_000000473101_00221_47649_4495.N1	11-APR-2011 06:28:45	Bright	47.000	119	14Eta Dra	2.7270	4700.0	94	47649	No
88	GOM_TRA_1PNPDK20110411_063653_000000393101_00221_47649_2588.N1	11-APR-2011 06:36:53	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	47649	No
89	GOM_TRA_1PNPDK20110411_064129_000000533101_00221_47649_2589.N1	11-APR-2011 06:41:29	Bright	52.500	144	18Del Cyg	2.8600	11000.	105	47649	No
90	GOM_TRA_1PNPDK20110411_064350_000000723101_00221_47649_2590.N1	11-APR-2011 06:43:50	Bright	72.000	66	37Gam Cyg	2.2080	5900.0	144	47649	No
91	GOM_TRA_1PNPDK20110411_064612_000000563101_00221_47649_2591.N1	11-APR-2011 06:46:12	Bright	55.500	92	53Eps Cyg	2.5000	4500.0	111	47649	No
92	GOM_TRA_1PNPDK20110411_065319_000000513101_00221_47649_2592.N1	11-APR-2011 06:53:19	Twilight	51.000	61	8Eps Peg	2.1000	3900.0	102	47649	No
93	GOM_TRA_1PNPDK20110411_065813_000000463101_00221_47649_2593.N1	11-APR-2011 06:58:13	Dark	46.000	154	22Bet Aqr	2.8990	5700.0	92	47649	No
94	GOM_TRA_1PNPDK20110411_071338_000000583101_00222_47650_2594.N1	11-APR-2011 07:13:38	Dark	57.500	103	38Zet Sgr	2.6000	9700.0	115	47650	No
95	GOM_TRA_1PNPDK20110411_071716_000000623101_00222_47650_2595.N1	11-APR-2011 07:17:16	Dark	62.000	38	20Eps Sgr	1.8360	11000.	124	47650	No
96	GOM_TRA_1PNPDK20110411_072121_000000603101_00222_47650_2596.N1	11-APR-2011 07:21:21	Dark	60.000	25	35Lam Sco	1.6200	28000.	120	47650	No
97	GOM_TRA_1PNPDK20110411_072524_000000513101_00222_47650_2597.N1	11-APR-2011 07:25:24	Straylight	51.000	75	26Eps Sco	2.2910	4250.0	102	47650	No
98	GOM_TRA_1PNPDK20110411_072757_000000423101_00222_47650_2598.N1	11-APR-2011 07:27:57	Straylight	42.000	78	Alp Lup	2.3040	28000.	84	47650	No
99	GOM_TRA_1PNPDK20110411_072932_000000463101_00222_47650_2599.N1	11-APR-2011 07:29:32	Straylight	45.500	81	Eta Cen	2.3560	28000.	91	47650	No
100	GOM_TRA_1PNPDK20110411_073159_000000503101_00222_47650_2600.N1	11-APR-2011 07:31:59	Straylight	49.500	54	5The Cen	2.0550	4500.0	99	47650	No
101	GOM_TRA_1PNPDK20110411_073652_000000453101_00222_47650_2601.N1	11-APR-2011 07:36:52	Twi_and_stray	44.500	169	46Gam Hya	2.9910	4700.0	89	47650	No
102	GOM_TRA_1PNPDK20110411_074037_000000473101_00222_47650_2617.N1	11-APR-2011 07:40:37	Bright	47.000	15	67Alp Vir	0.97600	28000.	94	47650	No
103	GOM_TRA_1PNPDK20110411_074342_000000403101_00222_47650_2618.N1	11-APR-2011 07:43:42	Bright	39.500	121	29Gam Vir	2.7400	7200.0	79	47650	No
104	GOM_TRA_1PNPDK20110411_074738_000000433101_00222_47650_2619.N1	11-APR-2011 07:47:38	Bright	42.500	138	47Eps Vir	2.8280	4700.0	85	47650	No
105	GOM_TRA_1PNPDK20110411_075123_000000523101_00222_47650_2620.N1	11-APR-2011 07:51:23	Bright	51.500	111	8Eta Boo	2.6800	6000.0	103	47650	No
106	GOM_TRA_1PNPDK20110411_075551_000000393101_00222_47650_2621.N1	11-APR-2011 07:55:51	Bright	38.500	152	12Alp2CVn	2.8900	11000.	77	47650	No
107	GOM_TRA_1PNPDK20110411_080046_000000393101_00222_47650_2622.N1	11-APR-2011 08:00:46	Bright	38.500	32	77Eps UMa	1.7630	11000.	77	47650	No
108	GOM_TRA_1PNPDK20110411_080711_000000413101_00222_47650_2623.N1	11-APR-2011 08:07:11	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47650	No
109	GOM_TRA_1PNPDK20110411_080858_000000473101_00222_47650_2624.N1	11-APR-2011 08:08:58	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	47650	No
110	GOM_TRA_1PNPDK20110411_081706_000000493101_00222_47650_2625.N1	11-APR-2011 08:17:06	Bright	48.500	89	5Alp Cep	2.4510	8000.0	97	47650	No
111	GOM_TRA_1PNPDK20110411_082143_000000523101_00222_47650_2626.N1	11-APR-2011 08:21:43	Bright	51.500	144	18Del Cyg	2.8600	11000.	103	47650	No
112	GOM_TRA_1PNPDK20110411_082404_000000513101_00222_47650_2627.N1	11-APR-2011 08:24:04	Bright	50.500	66	37Gam Cyg	2.2080	5900.0	101	47650	No
113	GOM_TRA_1PNPDK20110411_082626_000000513101_00222_47650_2628.N1	11-APR-2011 08:26:26	Bright	50.500	92	53Eps Cyg	2.5000	4500.0	101	47650	No
114	GOM_TRA_1PNPDK20110411_083333_000000483101_00222_47650_2629.N1	11-APR-2011 08:33:33	Twilight	47.500	61	8Eps Peg	2.1000	3900.0	95	47650	No
115	GOM_TRA_1PNPDK20110411_083827_000000463101_00222_47650_2630.N1	11-APR-2011 08:38:27	Dark	46.000	154	22Bet Aqr	2.8990	5700.0	92	47650	No
116	GOM_TRA_1PNPDK20110411_085353_000000593101_00223_47651_2631.N1	11-APR-2011 08:53:53	Dark	58.500	103	38Zet Sgr	2.6000	9700.0	117	47651	No
117	GOM_TRA_1PNPDK20110411_085731_000000603101_00223_47651_2632.N1	11-APR-2011 08:57:31	Dark	60.000	38	20Eps Sgr	1.8360	11000.	120	47651	No
118	GOM_TRA_1PNPDK20110411_090136_000000613101_00223_47651_2633.N1	11-APR-2011 09:01:36	Dark	61.000	25	35Lam Sco	1.6200	28000.	122	47651	No
119	GOM_TRA_1PNPDK20110411_090539_000000513101_00223_47651_2634.N1	11-APR-2011 09:05:39	Straylight	51.000	75	26Eps Sco	2.2910	4250.0	102	47651	No
120	GOM_TRA_1PNPDK20110411_090811_000000443101_00223_47651_2635.N1	11-APR-2011 09:08:11	Straylight	44.000	78	Alp Lup	2.3040	28000.	88	47651	No
121	GOM_TRA_1PNPDK20110411_090947_000000463101_00223_47651_2636.N1	11-APR-2011 09:09:47	Straylight	46.000	81	Eta Cen	2.3560	28000.	92	47651	No
122	GOM_TRA_1PNPDK20110411_091214_000000513101_00223_47651_2637.N1	11-APR-2011 09:12:14	Straylight	51.000	54	5The Cen	2.0550	4500.0	102	47651	No
123	GOM_TRA_1PNPDK20110411_091706_000000473101_00223_47651_2638.N1	11-APR-2011 09:17:06	Twi_and_stray	46.500	169	46Gam Hya	2.9910	4700.0	93	47651	No
124	GOM_TRA_1PNPDK20110411_092051_000000483101_00223_47651_2639.N1	11-APR-2011 09:20:51	Bright	48.000	15	67Alp Vir	0.97600	28000.	96	47651	No
125	GOM_TRA_1PNPDK20110411_092356_000000403101_00223_47651_2650.N1	11-APR-2011 09:23:56	Bright	39.500	121	29Gam Vir	2.7400	7200.0	79	47651	No
126	GOM_TRA_1PNPDK20110411_092752_000000423101_00223_47651_2651.N1	11-APR-2011 09:27:52	Bright	41.500	138	47Eps Vir	2.8280	4700.0	83	47651	No
127	GOM_TRA_1PNPDK20110411_093137_000000523101_00223_47651_2652.N1	11-APR-2011 09:31:37	Bright	51.500	111	8Eta Boo	2.6800	6000.0	103	47651	No
128	GOM_TRA_1PNPDK20110411_093604_000000393101_00223_47651_2653.N1	11-APR-2011 09:36:04	Bright	38.500	152	12Alp2CVn	2.8900	11000.	77	47651	No

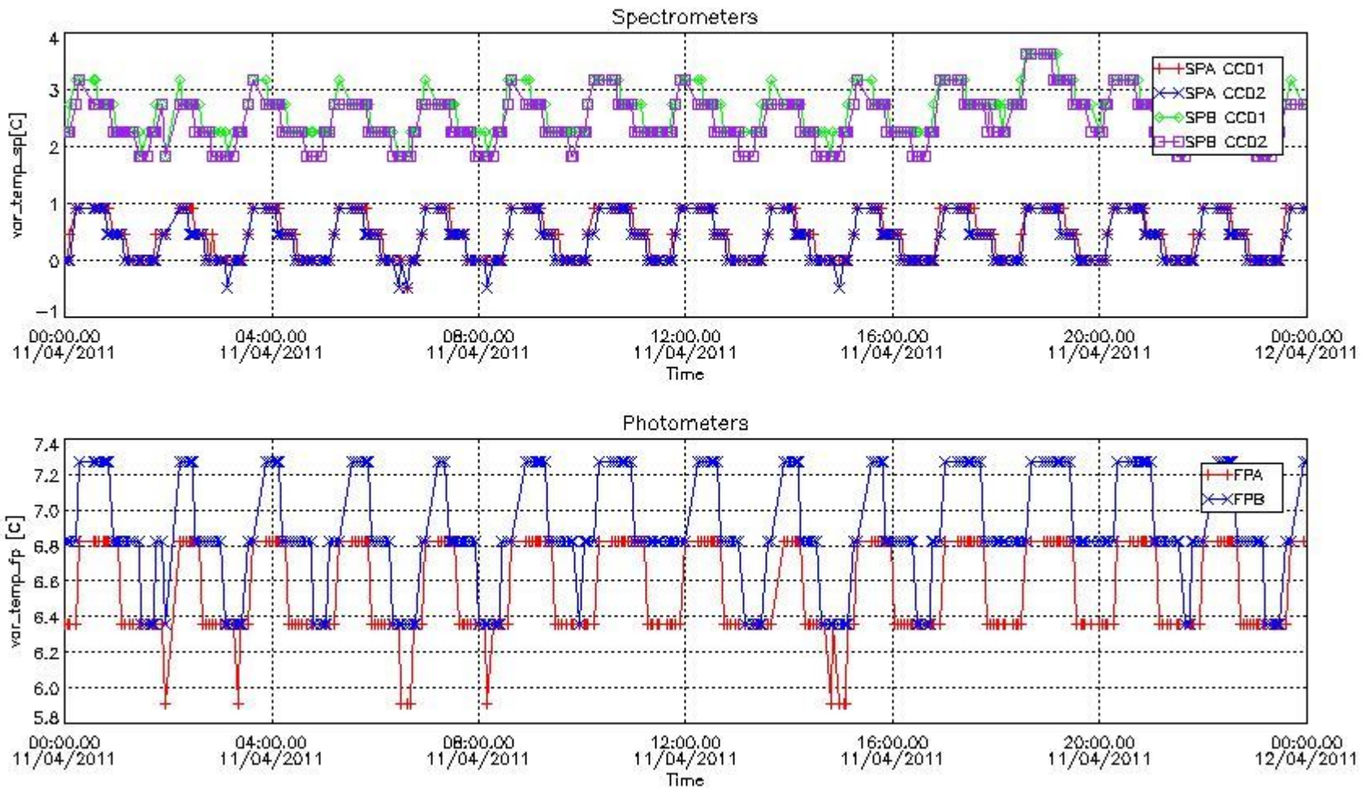
129	GOM_TRA_1PNPDK20110411_094100_000000403101_00223_47651_2654.N1	11-APR-2011 09:41:00	Bright	39.500	32	77Eps UMa	1.7630	11000.	79	47651	No
130	GOM_TRA_1PNPDK20110411_094724_000000413101_00223_47651_2655.N1	11-APR-2011 09:47:24	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	47651	No
131	GOM_TRA_1PNPDK20110411_094912_000000483101_00223_47651_2656.N1	11-APR-2011 09:49:12	Bright	48.000	119	14Eta Dra	2.7270	4700.0	96	47651	No
132	GOM_TRA_1PNPDK20110411_095721_000000403101_00223_47651_2657.N1	11-APR-2011 09:57:21	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	47651	No
133	GOM_TRA_1PNPDK20110411_100157_000000533101_00223_47651_2658.N1	11-APR-2011 10:01:57	Bright	52.500	144	18Del Cyg	2.8600	11000.	105	47651	No
134	GOM_TRA_1PNPDK20110411_100418_000000503101_00223_47651_2659.N1	11-APR-2011 10:04:18	Bright	49.500	66	37Gam Cyg	2.2080	5900.0	99	47651	No
135	GOM_TRA_1PNPDK20110411_100640_000000523101_00223_47651_2660.N1	11-APR-2011 10:06:40	Bright	52.000	92	53Eps Cyg	2.5000	4500.0	104	47651	No
136	GOM_TRA_1PNPDK20110411_101347_000000483101_00223_47651_2661.N1	11-APR-2011 10:13:47	Twilight	48.000	61	8Eps Peg	2.1000	3900.0	96	47651	No
137	GOM_TRA_1PNPDK20110411_101842_000000473101_00223_47651_2662.N1	11-APR-2011 10:18:42	Dark	47.000	154	22Bet Aqr	2.8990	5700.0	94	47651	No
138	GOM_TRA_1PNPDK20110411_103409_000000603101_00224_47652_2663.N1	11-APR-2011 10:34:09	Dark	59.500	103	38Zet Sgr	2.6000	9700.0	119	47652	No
139	GOM_TRA_1PNPDK20110411_103746_000000613101_00224_47652_2664.N1	11-APR-2011 10:37:46	Dark	60.500	38	20Eps Sgr	1.8360	11000.	121	47652	No
140	GOM_TRA_1PNPDK20110411_104151_000000593101_00224_47652_2665.N1	11-APR-2011 10:41:51	Dark	59.000	25	35Lam Sco	1.6200	28000.	118	47652	No
141	GOM_TRA_1PNPDK20110411_104554_000000513101_00224_47652_2666.N1	11-APR-2011 10:45:54	Straylight	51.000	75	26Eps Sco	2.2910	4250.0	102	47652	No
142	GOM_TRA_1PNPDK20110411_104826_000000443101_00224_47652_2667.N1	11-APR-2011 10:48:26	Straylight	43.500	78	Alp Lup	2.3040	28000.	87	47652	No
143	GOM_TRA_1PNPDK20110411_105001_000000433101_00224_47652_2668.N1	11-APR-2011 10:50:01	Straylight	43.000	81	Eta Cen	2.3560	28000.	86	47652	No
144	GOM_TRA_1PNPDK20110411_105228_000000483101_00224_47652_2669.N1	11-APR-2011 10:52:28	Straylight	48.000	54	5The Cen	2.0550	4500.0	96	47652	No
145	GOM_TRA_1PNPDK20110411_105720_000000473101_00224_47652_2670.N1	11-APR-2011 10:57:20	Twi_and_stray	46.500	169	46Gam Hya	2.9910	4700.0	93	47652	No
146	GOM_TRA_1PNPDK20110411_110105_000000443101_00224_47652_2686.N1	11-APR-2011 11:01:05	Bright	44.000	15	67Alp Vir	0.97600	28000.	88	47652	No
147	GOM_TRA_1PNPDK20110411_110410_000000393101_00224_47652_2687.N1	11-APR-2011 11:04:10	Bright	39.000	121	29Gam Vir	2.7400	7200.0	78	47652	No
148	GOM_TRA_1PNPDK20110411_110806_000000413101_00224_47652_2688.N1	11-APR-2011 11:08:06	Bright	41.000	138	47Eps Vir	2.8280	4700.0	82	47652	No
149	GOM_TRA_1PNPDK20110411_111150_000000513101_00224_47652_2689.N1	11-APR-2011 11:11:50	Bright	51.000	111	8Eta Boo	2.6800	6000.0	102	47652	No
150	GOM_TRA_1PNPDK20110411_111618_000000413101_00224_47652_2690.N1	11-APR-2011 11:16:18	Bright	40.500	152	12Alp2CVn	2.8900	11000.	81	47652	No
151	GOM_TRA_1PNPDK20110411_112003_000000273101_00224_47652_2691.N1	11-APR-2011 11:20:03	Twi_and_stray	27.000	180	27Gam Boo	3.0400	8000.0	54	47652	No
152	GOM_TRA_1PNPDK20110411_112113_000000393101_00224_47652_2692.N1	11-APR-2011 11:21:13	Bright	38.500	32	77Eps UMa	1.7630	11000.	77	47652	No
153	GOM_TRA_1PNPDK20110411_112738_000000413101_00224_47652_2693.N1	11-APR-2011 11:27:38	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	47652	No
154	GOM_TRA_1PNPDK20110411_112925_000000453101_00224_47652_2694.N1	11-APR-2011 11:29:25	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	47652	No
155	GOM_TRA_1PNPDK20110411_113734_000000363101_00224_47652_2695.N1	11-APR-2011 11:37:34	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	47652	No
156	GOM_TRA_1PNPDK20110411_114210_000000523101_00224_47652_2696.N1	11-APR-2011 11:42:10	Bright	52.000	144	18Del Cyg	2.8600	11000.	104	47652	No
157	GOM_TRA_1PNPDK20110411_114431_000000493101_00224_47652_2697.N1	11-APR-2011 11:44:31	Bright	49.000	66	37Gam Cyg	2.2080	5900.0	98	47652	No
158	GOM_TRA_1PNPDK20110411_114654_000000693101_00224_47652_2698.N1	11-APR-2011 11:46:54	Bright	69.000	92	53Eps Cyg	2.5000	4500.0	138	47652	No
159	GOM_TRA_1PNPDK20110411_115402_000000563101_00224_47652_2699.N1	11-APR-2011 11:54:02	Twilight	56.000	61	8Eps Peg	2.1000	3900.0	112	47652	No
160	GOM_TRA_1PNPDK20110411_115856_000000473101_00224_47652_2700.N1	11-APR-2011 11:58:56	Dark	46.500	154	22Bet Aqr	2.8990	5700.0	93	47652	No
161	GOM_TRA_1PNPDK20110411_121424_000000593101_00225_47653_2701.N1	11-APR-2011 12:14:24	Dark	59.000	103	38Zet Sgr	2.6000	9700.0	118	47653	No
162	GOM_TRA_1PNPDK20110411_121802_000000613101_00225_47653_2702.N1	11-APR-2011 12:18:02	Dark	60.500	38	20Eps Sgr	1.8360	11000.	121	47653	No
163	GOM_TRA_1PNPDK20110411_122207_000000613101_00225_47653_2703.N1	11-APR-2011 12:22:07	Dark	60.500	25	35Lam Sco	1.6200	28000.	121	47653	No
164	GOM_TRA_1PNPDK20110411_122609_000000513101_00225_47653_2704.N1	11-APR-2011 12:26:09	Straylight	51.000	75	26Eps Sco	2.2910	4250.0	102	47653	No
165	GOM_TRA_1PNPDK20110411_122840_000000443101_00225_47653_2705.N1	11-APR-2011 12:28:40	Straylight	44.000	78	Alp Lup	2.3040	28000.	88	47653	No
166	GOM_TRA_1PNPDK20110411_123016_000000453101_00225_47653_2706.N1	11-APR-2011 12:30:16	Straylight	45.000	81	Eta Cen	2.3560	28000.	90	47653	No
167	GOM_TRA_1PNPDK20110411_123242_000000493101_00225_47653_2707.N1	11-APR-2011 12:32:42	Straylight	49.000	54	5The Cen	2.0550	4500.0	98	47653	No
168	GOM_TRA_1PNPDK20110411_123734_000000463101_00225_47653_2708.N1	11-APR-2011 12:37:34	Twi_and_stray	45.500	169	46Gam Hya	2.9910	4700.0	91	47653	No
169	GOM_TRA_1PNPDK20110411_124119_000000483101_00225_47653_2710.N1	11-APR-2011 12:41:19	Bright	48.000	15	67Alp Vir	0.97600	28000.	96	47653	No
170	GOM_TRA_1PNPDK20110411_124423_000000403101_00225_47653_2711.N1	11-APR-2011 12:44:23	Bright	39.500	121	29Gam Vir	2.7400	7200.0	79	47653	No
171	GOM_TRA_1PNPDK20110411_124819_000000423101_00225_47653_2712.N1	11-APR-2011 12:48:19	Bright	41.500	138	47Eps Vir	2.8280	4700.0	83	47653	No
172	GOM_TRA_1PNPDK20110411_125203_000000513101_00225_47653_2713.N1	11-APR-2011 12:52:03	Bright	50.500	111	8Eta Boo	2.6800	6000.0	101	47653	No
173	GOM_TRA_1PNPDK20110411_125631_000000393101_00225_47653_2714.N1	11-APR-2011 12:56:31	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	47653	No
174	GOM_TRA_1PNPDK20110411_130016_000000273101_00225_47653_2715.N1	11-APR-2011 13:00:16	Twi_and_stray	27.000	180	27Gam Boo	3.0400	8000.0	54	47653	No
175	GOM_TRA_1PNPDK20110411_130127_000000383101_00225_47653_2716.N1	11-APR-2011 13:01:27	Bright	38.000	32	77Eps UMa	1.7630	11000.	76	47653	No
176	GOM_TRA_1PNPDK20110411_130752_000000383101_00225_47653_2717.N1	11-APR-2011 13:07:52	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	47653	No
177	GOM_TRA_1PNPDK20110411_131748_000000393101_00225_47653_2718.N1	11-APR-2011 13:17:48	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	47653	No
178	GOM_TRA_1PNPDK20110411_132224_000000593101_00225_47653_2719.N1	11-APR-2011 13:22:24	Bright	58.500	144	18Del Cyg	2.8600	11000.	117	47653	No
179	GOM_TRA_1PNPDK20110411_132445_000000523101_00225_47653_2720.N1	11-APR-2011 13:24:45	Bright	52.000	66	37Gam Cyg	2.2080	5900.0	104	47653	No
180	GOM_TRA_1PNPDK20110411_132708_000000513101_00225_47653_2721.N1	11-APR-2011 13:27:08	Bright	50.500	92	53Eps Cyg	2.5000	4500.0	101	47653	No
181	GOM_TRA_1PNPDK20110411_133416_000000483101_00225_47653_2722.N1	11-APR-2011 13:34:16	Twilight	47.500	61	8Eps Peg	2.1000	3900.0	95	47653	No
182	GOM_TRA_1PNPDK20110411_133911_000000483101_00225_47653_2723.N1	11-APR-2011 13:39:11	Dark	48.000	154	22Bet Aqr	2.8990	5700.0	96	47653	No
183	GOM_TRA_1PNPDK20110411_135440_000000563101_00226_47654_2724.N1	11-APR-2011 13:54:40	Dark	55.500	103	38Zet Sgr	2.6000	9700.0	111	47654	No
184	GOM_TRA_1PNPDK20110411_135817_000000633101_00226_47654_2725.N1	11-APR-2011 13:58:17	Dark	63.000	38	20Eps Sgr	1.8360	11000.	126	47654	No
185	GOM_TRA_1PNPDK20110411_140222_000000603101_00226_47654_2726.N1	11-APR-2011 14:02:22	Dark	60.000	25	35Lam Sco	1.6200	28000.	120	47654	No
186	GOM_TRA_1PNPDK20110411_140625_000000523101_00226_47654_2727.N1	11-APR-2011 14:06:25	Straylight	52.000	75	26Eps Sco	2.2910	4250.0	104	47654	No
187	GOM_TRA_1PNPDK20110411_140855_000000443101_00226_47654_2728.N1	11-APR-2011 14:08:55	Straylight	44.000	78	Alp Lup	2.3040	28000.	88	47654	No

188	GOM_TRA_1PNPDK20110411_141030_000000453101_00226_47654_2729.N1	11-APR-2011 14:10:30	Straylight	44.500	81	Eta Cen	2.3560	28000.	89	47654	No
189	GOM_TRA_1PNPDK20110411_141257_000000503101_00226_47654_2730.N1	11-APR-2011 14:12:57	Straylight	49.500	54	5The Cen	2.0550	4500.0	99	47654	No
190	GOM_TRA_1PNPDK20110411_141749_000000463101_00226_47654_2731.N1	11-APR-2011 14:17:49	Twi_and_stray	45.500	169	46Gam Hya	2.9910	4700.0	91	47654	No
191	GOM_TRA_1PNPDK20110411_142133_000000463101_00226_47654_2751.N1	11-APR-2011 14:21:33	Bright	45.500	15	67Alp Vir	0.97600	28000.	91	47654	No
192	GOM_TRA_1PNPDK20110411_142437_000000403101_00226_47654_2752.N1	11-APR-2011 14:24:37	Bright	40.000	121	29Gam Vir	2.7400	7200.0	80	47654	No
193	GOM_TRA_1PNPDK20110411_142833_000000393101_00226_47654_2753.N1	11-APR-2011 14:28:33	Bright	39.000	138	47Eps Vir	2.8280	4700.0	78	47654	No
194	GOM_TRA_1PNPDK20110411_143217_000000503101_00226_47654_2754.N1	11-APR-2011 14:32:17	Bright	50.000	111	8Eta Boo	2.6800	6000.0	100	47654	No
195	GOM_TRA_1PNPDK20110411_143645_000000383101_00226_47654_2755.N1	11-APR-2011 14:36:45	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	47654	No
196	GOM_TRA_1PNPDK20110411_144029_000000323101_00226_47654_2756.N1	11-APR-2011 14:40:29	Twi_and_stray	32.000	180	27Gam Boo	3.0400	8000.0	64	47654	No
197	GOM_TRA_1PNPDK20110411_144141_000000403101_00226_47654_2757.N1	11-APR-2011 14:41:41	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	47654	No
198	GOM_TRA_1PNPDK20110411_144806_000000373101_00226_47654_2758.N1	11-APR-2011 14:48:06	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	47654	No
199	GOM_TRA_1PNPDK20110411_144952_000000483101_00226_47654_2759.N1	11-APR-2011 14:49:52	Bright	48.000	119	14Eta Dra	2.7270	4700.0	96	47654	No
200	GOM_TRA_1PNPDK20110411_145802_000000383101_00226_47654_2760.N1	11-APR-2011 14:58:02	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	47654	No
201	GOM_TRA_1PNPDK20110411_150238_000000533101_00226_47654_2761.N1	11-APR-2011 15:02:38	Bright	52.500	144	18Del Cyg	2.8600	11000.	105	47654	No
202	GOM_TRA_1PNPDK20110411_150459_000000533101_00226_47654_2762.N1	11-APR-2011 15:04:59	Bright	52.500	66	37Gam Cyg	2.2080	5900.0	105	47654	No
203	GOM_TRA_1PNPDK20110411_150723_000000503101_00226_47654_2763.N1	11-APR-2011 15:07:23	Bright	49.500	92	53Eps Cyg	2.5000	4500.0	99	47654	No
204	GOM_TRA_1PNPDK20110411_151431_000000503101_00226_47654_2764.N1	11-APR-2011 15:14:31	Twilight	50.000	61	8Eps Peg	2.1000	3900.0	100	47654	No
205	GOM_TRA_1PNPDK20110411_151925_000000493101_00226_47654_2765.N1	11-APR-2011 15:19:25	Dark	49.000	154	22Bet Aqr	2.8990	5700.0	98	47654	No
206	GOM_TRA_1PNPDK20110411_153455_000000603101_00227_47655_2766.N1	11-APR-2011 15:34:55	Dark	59.500	103	38Zet Sgr	2.6000	9700.0	119	47655	No
207	GOM_TRA_1PNPDK20110411_153833_000000593101_00227_47655_2767.N1	11-APR-2011 15:38:33	Dark	59.000	38	20Eps Sgr	1.8360	11000.	118	47655	No
208	GOM_TRA_1PNPDK20110411_154237_000000593101_00227_47655_2768.N1	11-APR-2011 15:42:37	Dark	59.000	25	35Lam Sco	1.6200	28000.	118	47655	No
209	GOM_TRA_1PNPDK20110411_154640_000000523101_00227_47655_2769.N1	11-APR-2011 15:46:40	Straylight	52.000	75	26Eps Sco	2.2910	4250.0	104	47655	No
210	GOM_TRA_1PNPDK20110411_154909_000000413101_00227_47655_2770.N1	11-APR-2011 15:49:09	Straylight	41.000	78	Alp Lup	2.3040	28000.	82	47655	No
211	GOM_TRA_1PNPDK20110411_155045_000000473101_00227_47655_2771.N1	11-APR-2011 15:50:45	Straylight	47.000	81	Eta Cen	2.3560	28000.	94	47655	No
212	GOM_TRA_1PNPDK20110411_155311_000000493101_00227_47655_2772.N1	11-APR-2011 15:53:11	Straylight	48.500	54	5The Cen	2.0550	4500.0	97	47655	No
213	GOM_TRA_1PNPDK20110411_155803_000000463101_00227_47655_2776.N1	11-APR-2011 15:58:03	Twi_and_stray	46.000	169	46Gam Hya	2.9910	4700.0	92	47655	No
214	GOM_TRA_1PNPDK20110411_160147_000000463101_00227_47655_2777.N1	11-APR-2011 16:01:47	Bright	45.500	15	67Alp Vir	0.97600	28000.	91	47655	No
215	GOM_TRA_1PNPDK20110411_160451_000000383101_00227_47655_2778.N1	11-APR-2011 16:04:51	Bright	38.000	121	29Gam Vir	2.7400	7200.0	76	47655	No
216	GOM_TRA_1PNPDK20110411_160847_000000423101_00227_47655_2779.N1	11-APR-2011 16:08:47	Bright	41.500	138	47Eps Vir	2.8280	4700.0	83	47655	No
217	GOM_TRA_1PNPDK20110411_161230_000000513101_00227_47655_2780.N1	11-APR-2011 16:12:30	Bright	50.500	111	8Eta Boo	2.6800	6000.0	101	47655	No
218	GOM_TRA_1PNPDK20110411_161659_000000413101_00227_47655_2781.N1	11-APR-2011 16:16:59	Bright	40.500	152	12Alp2CVn	2.8900	11000.	81	47655	No
219	GOM_TRA_1PNPDK20110411_162042_000000323101_00227_47655_2782.N1	11-APR-2011 16:20:42	Twi_and_stray	32.000	180	27Gam Boo	3.0400	8000.0	64	47655	No
220	GOM_TRA_1PNPDK20110411_162155_000000393101_00227_47655_2783.N1	11-APR-2011 16:21:55	Bright	39.000	32	77Eps UMa	1.7630	11000.	78	47655	No
221	GOM_TRA_1PNPDK20110411_162819_000000403101_00227_47655_2784.N1	11-APR-2011 16:28:19	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	47655	No
222	GOM_TRA_1PNPDK20110411_163005_000000493101_00227_47655_2785.N1	11-APR-2011 16:30:05	Bright	48.500	119	14Eta Dra	2.7270	4700.0	97	47655	No
223	GOM_TRA_1PNPDK20110411_163816_000000423101_00227_47655_2786.N1	11-APR-2011 16:38:16	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	47655	No
224	GOM_TRA_1PNPDK20110411_164252_000000533101_00227_47655_2787.N1	11-APR-2011 16:42:52	Bright	52.500	144	18Del Cyg	2.8600	11000.	105	47655	No
225	GOM_TRA_1PNPDK20110411_164513_000000503101_00227_47655_2788.N1	11-APR-2011 16:45:13	Bright	50.000	66	37Gam Cyg	2.2080	5900.0	100	47655	No
226	GOM_TRA_1PNPDK20110411_164737_000000513101_00227_47655_2789.N1	11-APR-2011 16:47:37	Bright	51.000	92	53Eps Cyg	2.5000	4500.0	102	47655	No
227	GOM_TRA_1PNPDK20110411_165445_000000513101_00227_47655_2790.N1	11-APR-2011 16:54:45	Twilight	51.000	61	8Eps Peg	2.1000	3900.0	102	47655	No
228	GOM_TRA_1PNPDK20110411_165940_000000493101_00227_47655_2791.N1	11-APR-2011 16:59:40	Dark	48.500	154	22Bet Aqr	2.8990	5700.0	97	47655	No
229	GOM_TRA_1PNPDK20110411_171511_000000583101_00228_47656_2792.N1	11-APR-2011 17:15:11	Dark	58.000	103	38Zet Sgr	2.6000	9700.0	116	47656	No
230	GOM_TRA_1PNPDK20110411_171848_000000613101_00228_47656_2793.N1	11-APR-2011 17:18:48	Dark	61.000	38	20Eps Sgr	1.8360	11000.	122	47656	No
231	GOM_TRA_1PNPDK20110411_172253_000000683101_00228_47656_2794.N1	11-APR-2011 17:22:53	Dark	67.500	25	35Lam Sco	1.6200	28000.	135	47656	No
232	GOM_TRA_1PNPDK20110411_172655_000000533101_00228_47656_2795.N1	11-APR-2011 17:26:55	Straylight	53.000	75	26Eps Sco	2.2910	4250.0	106	47656	No
233	GOM_TRA_1PNPDK20110411_172924_000000433101_00228_47656_2796.N1	11-APR-2011 17:29:24	Straylight	42.500	78	Alp Lup	2.3040	28000.	85	47656	No
234	GOM_TRA_1PNPDK20110411_173059_000000453101_00228_47656_2797.N1	11-APR-2011 17:30:59	Straylight	45.000	81	Eta Cen	2.3560	28000.	90	47656	No
235	GOM_TRA_1PNPDK20110411_173326_000000473101_00228_47656_2802.N1	11-APR-2011 17:33:26	Straylight	47.000	54	5The Cen	2.0550	4500.0	94	47656	No
236	GOM_TRA_1PNPDK20110411_173817_000000483101_00228_47656_2803.N1	11-APR-2011 17:38:17	Twi_and_stray	47.500	169	46Gam Hya	2.9910	4700.0	95	47656	No
237	GOM_TRA_1PNPDK20110411_174201_000000443101_00228_47656_2804.N1	11-APR-2011 17:42:01	Bright	44.000	15	67Alp Vir	0.97600	28000.	88	47656	No
238	GOM_TRA_1PNPDK20110411_174506_000000563101_00228_47656_2805.N1	11-APR-2011 17:45:06	Bright	56.000	121	29Gam Vir	2.7400	7200.0	112	47656	No
239	GOM_TRA_1PNPDK20110411_174901_000000413101_00228_47656_2806.N1	11-APR-2011 17:49:01	Bright	41.000	138	47Eps Vir	2.8280	4700.0	82	47656	No
240	GOM_TRA_1PNPDK20110411_175243_000000513101_00228_47656_2807.N1	11-APR-2011 17:52:43	Bright	51.000	111	8Eta Boo	2.6800	6000.0	102	47656	No
241	GOM_TRA_1PNPDK20110411_175713_000000403101_00228_47656_2808.N1	11-APR-2011 17:57:13	Bright	39.500	152	12Alp2CVn	2.8900	11000.	79	47656	No
242	GOM_TRA_1PNPDK20110411_180055_000000383101_00228_47656_2809.N1	11-APR-2011 18:00:55	Twi_and_stray	38.000	180	27Gam Boo	3.0400	8000.0	76	47656	No
243	GOM_TRA_1PNPDK20110411_180208_000000393101_00228_47656_2810.N1	11-APR-2011 18:02:08	Bright	38.500	32	77Eps UMa	1.7630	11000.	77	47656	No
244	GOM_TRA_1PNPDK20110411_180833_000000363101_00228_47656_2811.N1	11-APR-2011 18:08:33	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	47656	No
245	GOM_TRA_1PNPDK20110411_181018_000000483101_00228_47656_2812.N1	11-APR-2011 18:10:18	Bright	48.000	119	14Eta Dra	2.7270	4700.0	96	47656	No
246	GOM_TRA_1PNPDK20110411_181830_000000393101_00228_47656_2813.N1	11-APR-2011 18:18:30	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	47656	No

247	GOM_TRA_1PNPDK20110411_182305_000000513101_00228_47656_2814.N1	11-APR-2011 18:23:05	Bright	50.500	144	18Del Cyg	2.8600	11000.	101	47656	No
248	GOM_TRA_1PNPDK20110411_182527_000000523101_00228_47656_2815.N1	11-APR-2011 18:25:27	Bright	51.500	66	37Gam Cyg	2.2080	5900.0	103	47656	No
249	GOM_TRA_1PNPDK20110411_182751_000000493101_00228_47656_2816.N1	11-APR-2011 18:27:51	Bright	48.500	92	53Eps Cyg	2.5000	4500.0	97	47656	No
250	GOM_TRA_1PNPDK20110411_183459_000000503101_00228_47656_2817.N1	11-APR-2011 18:34:59	Twilight	50.000	61	8Eps Peg	2.1000	3900.0	100	47656	No
251	GOM_TRA_1PNPDK20110411_183955_000000483101_00228_47656_2818.N1	11-APR-2011 18:39:55	Dark	47.500	154	22Bet Aqr	2.8990	5700.0	95	47656	No
252	GOM_TRA_1PNPDK20110411_185526_000000603101_00229_47657_2819.N1	11-APR-2011 18:55:26	Dark	60.000	103	38Zet Sgr	2.6000	9700.0	120	47657	No
253	GOM_TRA_1PNPDK20110411_185904_000000623101_00229_47657_2820.N1	11-APR-2011 18:59:04	Dark	61.500	38	20Eps Sgr	1.8360	11000.	123	47657	No
254	GOM_TRA_1PNPDK20110411_190308_000000603101_00229_47657_2821.N1	11-APR-2011 19:03:08	Dark	60.000	25	35Lam Sco	1.6200	28000.	120	47657	No
255	GOM_TRA_1PNPDK20110411_190710_000000533101_00229_47657_2822.N1	11-APR-2011 19:07:10	Straylight	53.000	75	26Eps Sco	2.2910	4250.0	106	47657	No
256	GOM_TRA_1PNPDK20110411_190938_000000423101_00229_47657_2823.N1	11-APR-2011 19:09:38	Straylight	42.000	78	Alp Lup	2.3040	28000.	84	47657	No
257	GOM_TRA_1PNPDK20110411_191114_000000453101_00229_47657_2832.N1	11-APR-2011 19:11:14	Straylight	45.000	81	Eta Cen	2.3560	28000.	90	47657	No
258	GOM_TRA_1PNPDK20110411_191340_000000463101_00229_47657_2833.N1	11-APR-2011 19:13:40	Straylight	46.000	54	5The Cen	2.0550	4500.0	92	47657	No
259	GOM_TRA_1PNPDK20110411_191831_000000463101_00229_47657_2834.N1	11-APR-2011 19:18:31	Twi_and_stray	46.000	169	46Gam Hya	2.9910	4700.0	92	47657	No
260	GOM_TRA_1PNPDK20110411_192215_000000523101_00229_47657_2835.N1	11-APR-2011 19:22:15	Bright	51.500	15	67Alp Vir	0.97600	28000.	103	47657	No
261	GOM_TRA_1PNPDK20110411_192519_000000563101_00229_47657_2836.N1	11-APR-2011 19:25:19	Bright	56.000	121	29Gam Vir	2.7400	7200.0	112	47657	No
262	GOM_TRA_1PNPDK20110411_192915_000000413101_00229_47657_2837.N1	11-APR-2011 19:29:15	Bright	41.000	138	47Eps Vir	2.8280	4700.0	82	47657	No
263	GOM_TRA_1PNPDK20110411_193257_000000513101_00229_47657_2838.N1	11-APR-2011 19:32:57	Bright	51.000	111	8Eta Boo	2.6800	6000.0	102	47657	No
264	GOM_TRA_1PNPDK20110411_193726_000000413101_00229_47657_2839.N1	11-APR-2011 19:37:26	Bright	40.500	152	12Alp2CVn	2.8900	11000.	81	47657	No
265	GOM_TRA_1PNPDK20110411_194108_000000383101_00229_47657_2840.N1	11-APR-2011 19:41:08	Twi_and_stray	38.000	180	27Gam Boo	3.0400	8000.0	76	47657	No
266	GOM_TRA_1PNPDK20110411_194222_000000573101_00229_47657_2841.N1	11-APR-2011 19:42:22	Bright	57.000	32	77Eps UMa	1.7630	11000.	114	47657	No
267	GOM_TRA_1PNPDK20110411_194847_000000413101_00229_47657_2842.N1	11-APR-2011 19:48:47	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47657	No
268	GOM_TRA_1PNPDK20110411_195032_000000493101_00229_47657_2843.N1	11-APR-2011 19:50:32	Bright	48.500	119	14Eta Dra	2.7270	4700.0	97	47657	No
269	GOM_TRA_1PNPDK20110411_195844_000000373101_00229_47657_2844.N1	11-APR-2011 19:58:44	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	47657	No
270	GOM_TRA_1PNPDK20110411_200319_000000783101_00229_47657_2845.N1	11-APR-2011 20:03:19	Bright	78.000	144	18Del Cyg	2.8600	11000.	156	47657	No
271	GOM_TRA_1PNPDK20110411_200541_000000543101_00229_47657_2846.N1	11-APR-2011 20:05:41	Bright	54.000	66	37Gam Cyg	2.2080	5900.0	108	47657	No
272	GOM_TRA_1PNPDK20110411_200805_000000513101_00229_47657_2847.N1	11-APR-2011 20:08:05	Bright	51.000	92	53Eps Cyg	2.5000	4500.0	102	47657	No
273	GOM_TRA_1PNPDK20110411_201513_000000513101_00229_47657_2848.N1	11-APR-2011 20:15:13	Twilight	50.500	61	8Eps Peg	2.1000	3900.0	101	47657	No
274	GOM_TRA_1PNPDK20110411_202009_000000493101_00229_47657_2849.N1	11-APR-2011 20:20:09	Dark	48.500	154	22Bet Aqr	2.8990	5700.0	97	47657	No
275	GOM_TRA_1PNPDK20110411_203542_000000613101_00230_47658_2850.N1	11-APR-2011 20:35:42	Dark	60.500	103	38Zet Sgr	2.6000	9700.0	121	47658	No
276	GOM_TRA_1PNPDK20110411_203919_000000613101_00230_47658_2851.N1	11-APR-2011 20:39:19	Dark	60.500	38	20Eps Sgr	1.8360	11000.	121	47658	No
277	GOM_TRA_1PNPDK20110411_204323_000000603101_00230_47658_2852.N1	11-APR-2011 20:43:23	Dark	59.500	25	35Lam Sco	1.6200	28000.	119	47658	No
278	GOM_TRA_1PNPDK20110411_204726_000000543101_00230_47658_2853.N1	11-APR-2011 20:47:26	Straylight	54.000	75	26Eps Sco	2.2910	4250.0	108	47658	No
279	GOM_TRA_1PNPDE20110411_204953_000000453101_00230_47658_4604.N1	11-APR-2011 20:49:53	Straylight	45.000	78	Alp Lup	2.3040	28000.	90	47658	No
280	GOM_TRA_1PNPDE20110411_205129_000000443101_00230_47658_4605.N1	11-APR-2011 20:51:29	Straylight	44.000	81	Eta Cen	2.3560	28000.	88	47658	No
281	GOM_TRA_1PNPDE20110411_205354_000000503101_00230_47658_4606.N1	11-APR-2011 20:53:54	Straylight	49.500	54	5The Cen	2.0550	4500.0	99	47658	No
282	GOM_TRA_1PNPDE20110411_205845_000000463101_00230_47658_4607.N1	11-APR-2011 20:58:45	Twi_and_stray	45.500	169	46Gam Hya	2.9910	4700.0	91	47658	No
283	GOM_TRA_1PNPDE20110411_210230_000000603101_00230_47658_4608.N1	11-APR-2011 21:02:30	Bright	60.000	15	67Alp Vir	0.97600	28000.	120	47658	No
284	GOM_TRA_1PNPDE20110411_210534_000000563101_00230_47658_4609.N1	11-APR-2011 21:05:34	Bright	56.000	121	29Gam Vir	2.7400	7200.0	112	47658	No
285	GOM_TRA_1PNPDE20110411_210928_000000413101_00230_47658_4610.N1	11-APR-2011 21:09:28	Bright	40.500	138	47Eps Vir	2.8280	4700.0	81	47658	No
286	GOM_TRA_1PNPDE20110411_211310_000000733101_00230_47658_4611.N1	11-APR-2011 21:13:10	Bright	73.000	111	8Eta Boo	2.6800	6000.0	146	47658	No
287	GOM_TRA_1PNPDE20110411_211740_000000393101_00230_47658_4612.N1	11-APR-2011 21:17:40	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	47658	No
288	GOM_TRA_1PNPDE20110411_212121_000000433101_00230_47658_4613.N1	11-APR-2011 21:21:21	Bright	43.000	180	27Gam Boo	3.0400	8000.0	86	47658	No
289	GOM_TRA_1PNPDE20110411_212235_000000373101_00230_47658_4614.N1	11-APR-2011 21:22:35	Bright	37.000	32	77Eps UMa	1.7630	11000.	74	47658	No
290	GOM_TRA_1PNPDE20110411_212900_000000413101_00230_47658_4615.N1	11-APR-2011 21:29:00	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47658	No
291	GOM_TRA_1PNPDE20110411_213045_000000503101_00230_47658_4616.N1	11-APR-2011 21:30:45	Bright	49.500	119	14Eta Dra	2.7270	4700.0	99	47658	No
292	GOM_TRA_1PNPDE20110411_213858_000000393101_00230_47658_4617.N1	11-APR-2011 21:38:58	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	47658	No
293	GOM_TRA_1PNPDE20110411_214332_000000733101_00230_47658_4618.N1	11-APR-2011 21:43:32	Bright	72.500	144	18Del Cyg	2.8600	11000.	145	47658	No
294	GOM_TRA_1PNPDE20110411_214555_000000533101_00230_47658_4619.N1	11-APR-2011 21:45:55	Bright	52.500	66	37Gam Cyg	2.2080	5900.0	105	47658	No
295	GOM_TRA_1PNPDE20110411_214819_000000513101_00230_47658_4620.N1	11-APR-2011 21:48:19	Bright	51.000	92	53Eps Cyg	2.5000	4500.0	102	47658	No
296	GOM_TRA_1PNPDE20110411_215528_000000523101_00230_47658_4621.N1	11-APR-2011 21:55:28	Twilight	52.000	61	8Eps Peg	2.1000	3900.0	104	47658	No
297	GOM_TRA_1PNPDE20110411_220024_000000473101_00230_47658_4622.N1	11-APR-2011 22:00:24	Dark	46.500	154	22Bet Aqr	2.8990	5700.0	93	47658	No
298	GOM_TRA_1PNPDE20110411_221557_000000623101_00231_47659_4628.N1	11-APR-2011 22:15:57	Dark	61.500	103	38Zet Sgr	2.6000	9700.0	123	47659	No
299	GOM_TRA_1PNPDE20110411_221935_000000633101_00231_47659_4629.N1	11-APR-2011 22:19:35	Dark	63.000	38	20Eps Sgr	1.8360	11000.	126	47659	No
300	GOM_TRA_1PNPDE20110411_222339_000000623101_00231_47659_4630.N1	11-APR-2011 22:23:39	Dark	61.500	25	35Lam Sco	1.6200	28000.	123	47659	No
301	GOM_TRA_1PNPDE20110411_222741_000000543101_00231_47659_4631.N1	11-APR-2011 22:27:41	Straylight	54.000	75	26Eps Sco	2.2910	4250.0	108	47659	No
302	GOM_TRA_1PNPDE20110411_223007_000000463101_00231_47659_4632.N1	11-APR-2011 22:30:07	Straylight	46.000	78	Alp Lup	2.3040	28000.	92	47659	No
303	GOM_TRA_1PNPDE20110411_223143_000000473101_00231_47659_4633.N1	11-APR-2011 22:31:43	Straylight	46.500	81	Eta Cen	2.3560	28000.	93	47659	No
304	GOM_TRA_1PNPDE20110411_223409_000000483101_00231_47659_4634.N1	11-APR-2011 22:34:09	Straylight	48.000	54	5The Cen	2.0550	4500.0	96	47659	No
305	GOM_TRA_1PNPDE20110411_223900_000000463101_00231_47659_4635.N1	11-APR-2011 22:39:00	Twi_and_stray	45.500	169	46Gam Hya	2.9910	4700.0	91	47659	No

306	GOM_TRA_1PNPDE20110411_224243_000000473101_00231_47659_4636.N1	11-APR-2011 22:42:43	Bright	46.500	15	67Alp Vir	0.97600	28000.	93	47659	No
307	GOM_TRA_1PNPDE20110411_224548_000000563101_00231_47659_4637.N1	11-APR-2011 22:45:48	Bright	56.000	121	29Gam Vir	2.7400	7200.0	112	47659	No
308	GOM_TRA_1PNPDE20110411_224942_000000603101_00231_47659_4638.N1	11-APR-2011 22:49:42	Bright	60.000	138	47Eps Vir	2.8280	4700.0	120	47659	No
309	GOM_TRA_1PNPDE20110411_225323_000000503101_00231_47659_4639.N1	11-APR-2011 22:53:23	Bright	49.500	111	8Eta Boo	2.6800	6000.0	99	47659	No
310	GOM_TRA_1PNPDE20110411_225754_000000393101_00231_47659_4640.N1	11-APR-2011 22:57:54	Bright	38.500	152	12Alp2CVn	2.8900	11000.	77	47659	No
311	GOM_TRA_1PNPDE20110411_230134_000000433101_00231_47659_4641.N1	11-APR-2011 23:01:34	Bright	43.000	180	27Gam Boo	3.0400	8000.0	86	47659	No
312	GOM_TRA_1PNPDE20110411_230249_000000413101_00231_47659_4642.N1	11-APR-2011 23:02:49	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	47659	No
313	GOM_TRA_1PNPDE20110411_230914_000000413101_00231_47659_4643.N1	11-APR-2011 23:09:14	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47659	No
314	GOM_TRA_1PNPDE20110411_231058_000000483101_00231_47659_4644.N1	11-APR-2011 23:10:58	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	47659	No
315	GOM_TRA_1PNPDE20110411_231911_000000403101_00231_47659_4645.N1	11-APR-2011 23:19:11	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	47659	No
316	GOM_TRA_1PNPDE20110411_232346_000000703101_00231_47659_4646.N1	11-APR-2011 23:23:46	Bright	70.000	144	18Del Cyg	2.8600	11000.	140	47659	No
317	GOM_TRA_1PNPDE20110411_232609_000000523101_00231_47659_4647.N1	11-APR-2011 23:26:09	Bright	51.500	66	37Gam Cyg	2.2080	5900.0	103	47659	No
318	GOM_TRA_1PNPDE20110411_232833_000000523101_00231_47659_4648.N1	11-APR-2011 23:28:33	Bright	52.000	92	53Eps Cyg	2.5000	4500.0	104	47659	No
319	GOM_TRA_1PNPDE20110411_233542_000000513101_00231_47659_4649.N1	11-APR-2011 23:35:42	Twilight	50.500	61	8Eps Peg	2.1000	3900.0	101	47659	No
320	GOM_TRA_1PNPDE20110411_234038_000000473101_00231_47659_4650.N1	11-APR-2011 23:40:38	Dark	46.500	154	22Bet Aqr	2.8990	5700.0	93	47659	No
321	GOM_TRA_1PNPDE20110411_235613_000000603101_00232_47660_4657.N1	11-APR-2011 23:56:13	Dark	59.500	103	38Zet Sgr	2.6000	9700.0	119	47660	No
322	GOM_TRA_1PNPDE20110411_235950_000000633101_00232_47660_4658.N1	11-APR-2011 23:59:50	Dark	62.500	38	20Eps Sgr	1.8360	11000.	125	47660	No

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



4. Overview of dark signal processing per product

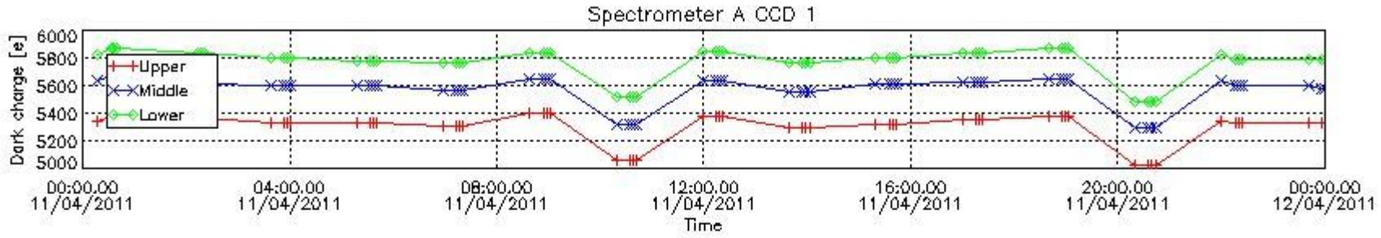
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

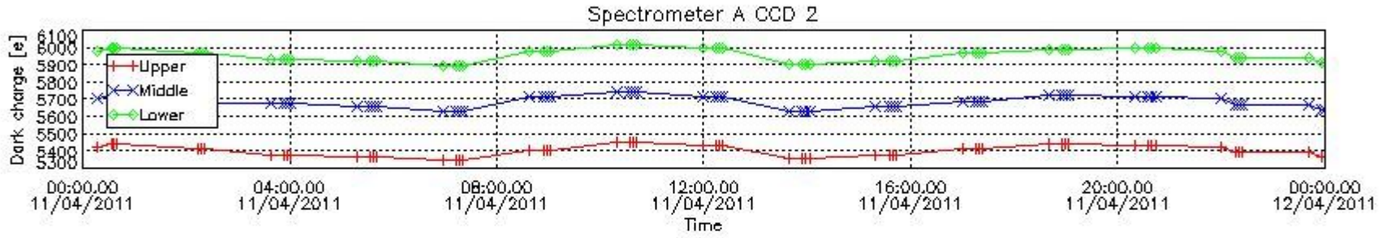
the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given.
It is also provided the mean DC plot per product for dark limb products with no error flag set.

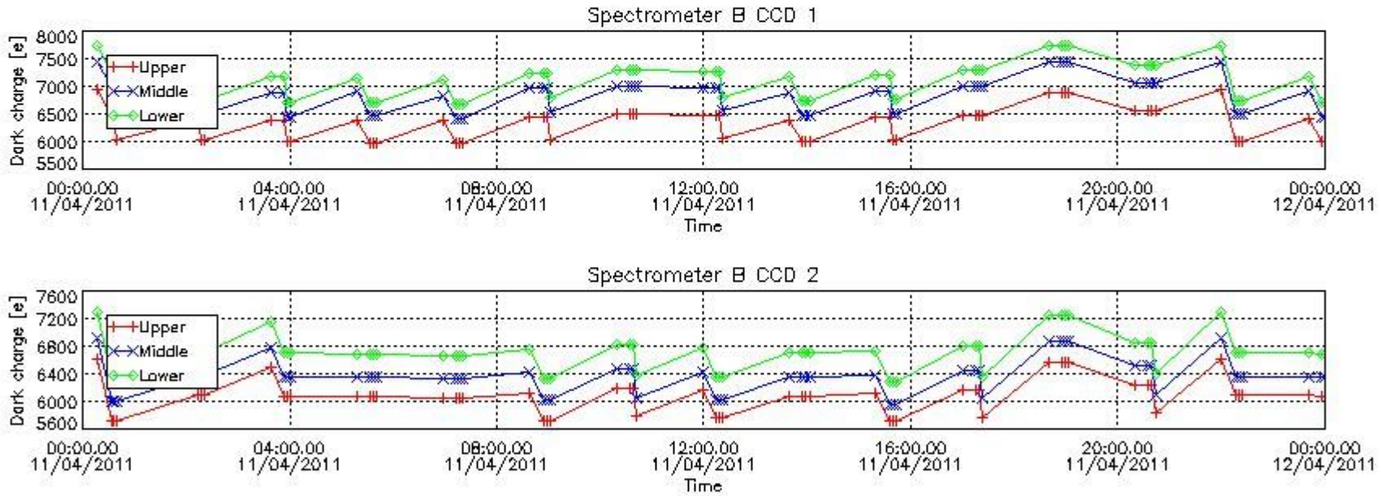
4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20110411_000034_000000773101_00217_47645_4391.N1	DC map used
GOM_TRA_1PNPDE20110411_000254_000000513101_00217_47645_4392.N1	DC map used
GOM_TRA_1PNPDE20110411_000516_000000483101_00217_47645_4393.N1	DC map used
GOM_TRA_1PNPDE20110411_001221_000000483101_00217_47645_4394.N1	DC map used
GOM_TRA_1PNPDE20110411_001714_000000463101_00217_47645_4395.N1	DC map used
GOM_TRA_1PNPDE20110411_204953_000000453101_00230_47658_4604.N1	DC map used
GOM_TRA_1PNPDE20110411_205129_000000443101_00230_47658_4605.N1	DC map used
GOM_TRA_1PNPDE20110411_205354_000000503101_00230_47658_4606.N1	DC map used
GOM_TRA_1PNPDE20110411_205845_000000463101_00230_47658_4607.N1	DC map used
GOM_TRA_1PNPDE20110411_210230_000000603101_00230_47658_4608.N1	DC map used
GOM_TRA_1PNPDE20110411_210534_000000563101_00230_47658_4609.N1	DC map used
GOM_TRA_1PNPDE20110411_210928_000000413101_00230_47658_4610.N1	DC map used
GOM_TRA_1PNPDE20110411_211310_000000733101_00230_47658_4611.N1	DC map used
GOM_TRA_1PNPDE20110411_211740_000000393101_00230_47658_4612.N1	DC map used
GOM_TRA_1PNPDE20110411_212121_000000433101_00230_47658_4613.N1	DC map used
GOM_TRA_1PNPDE20110411_212235_000000373101_00230_47658_4614.N1	DC map used
GOM_TRA_1PNPDE20110411_212900_000000413101_00230_47658_4615.N1	DC map used
GOM_TRA_1PNPDE20110411_213045_000000503101_00230_47658_4616.N1	DC map used
GOM_TRA_1PNPDE20110411_213858_000000393101_00230_47658_4617.N1	DC map used
GOM_TRA_1PNPDE20110411_214332_000000733101_00230_47658_4618.N1	DC map used
GOM_TRA_1PNPDE20110411_214555_000000533101_00230_47658_4619.N1	DC map used
GOM_TRA_1PNPDE20110411_214819_000000513101_00230_47658_4620.N1	DC map used
GOM_TRA_1PNPDE20110411_215528_000000523101_00230_47658_4621.N1	DC map used
GOM_TRA_1PNPDE20110411_220024_000000473101_00230_47658_4622.N1	DC map used

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







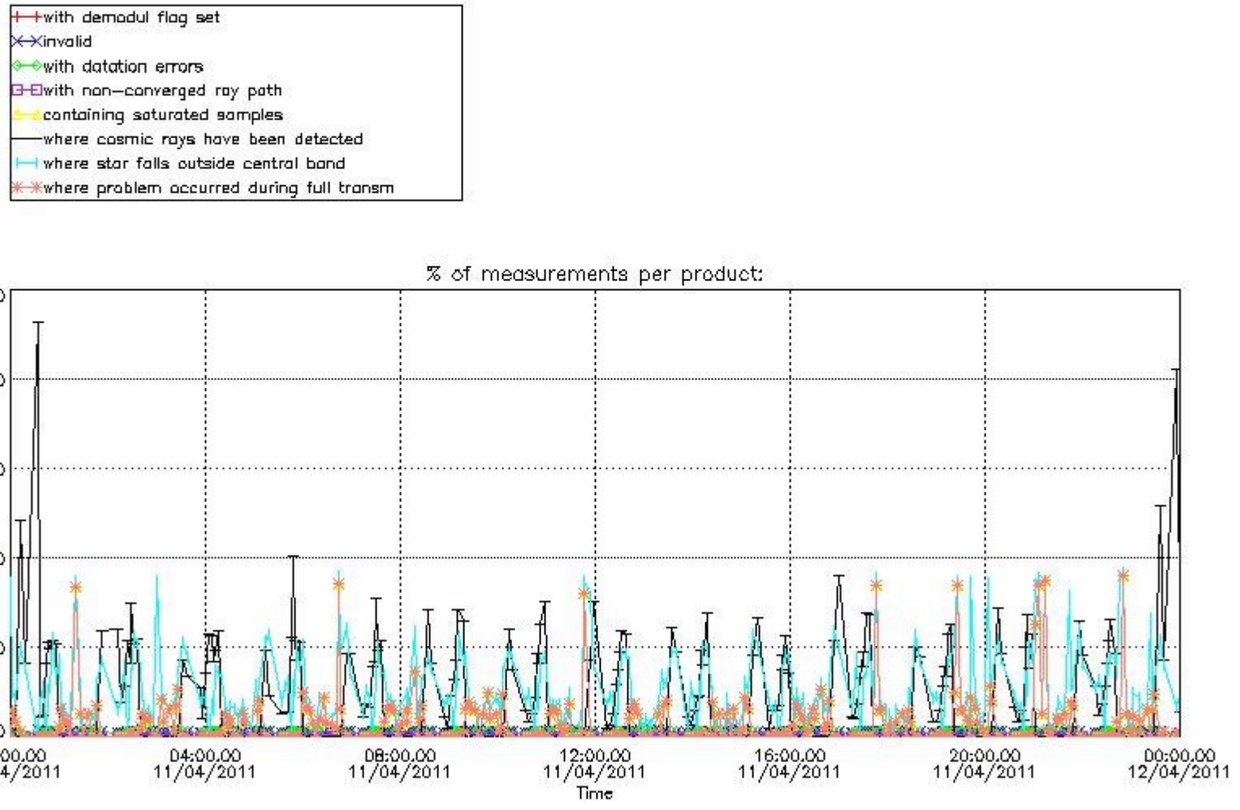
5. Demodulation flag and quality information monitoring

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:

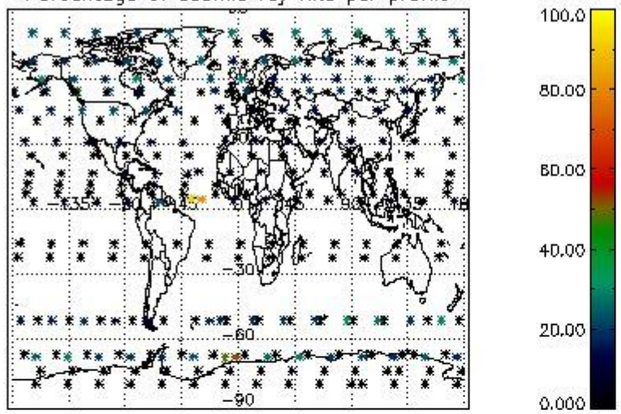
At least one measurement with demodulation flag set:	42.9907 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

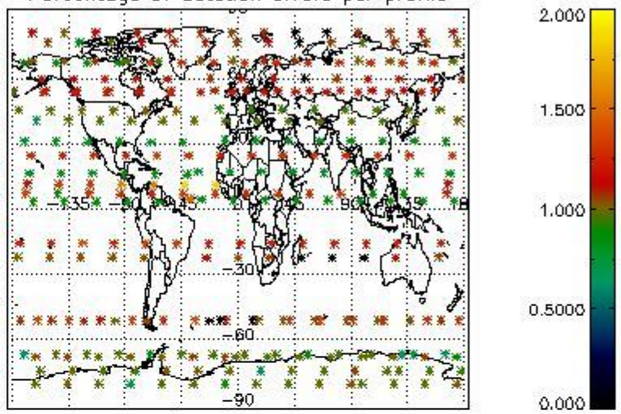


5.3 Plot quality information per product (world map)

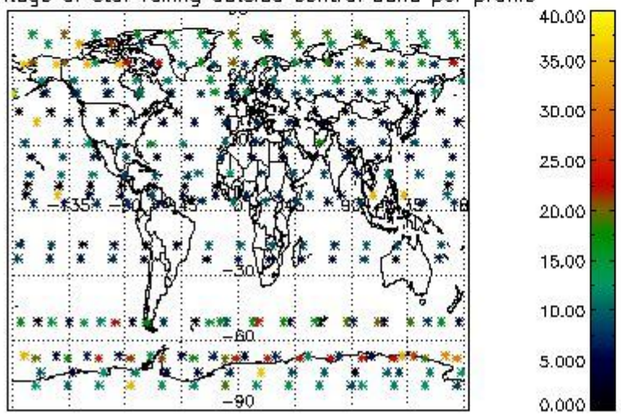
Percentage of cosmic ray hits per profile



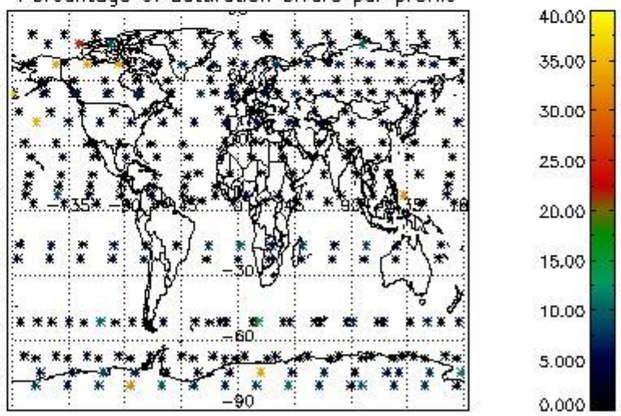
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



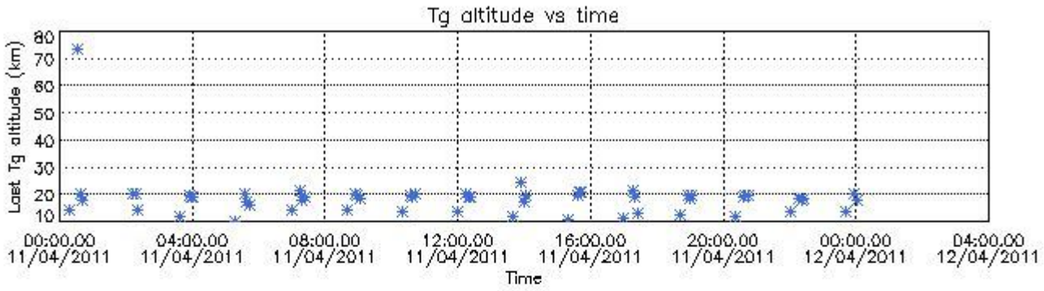
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

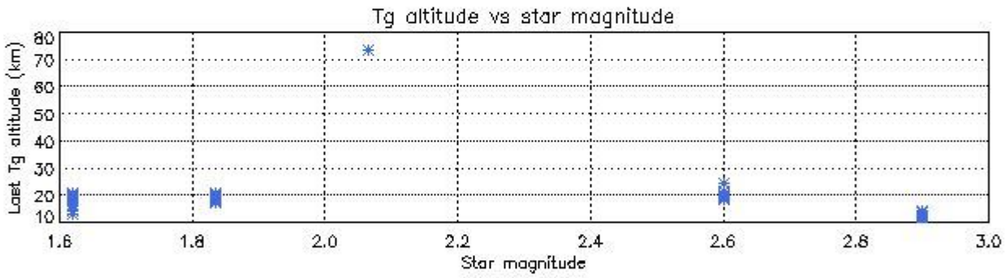
6.1 Statistics on tangent altitude lost:

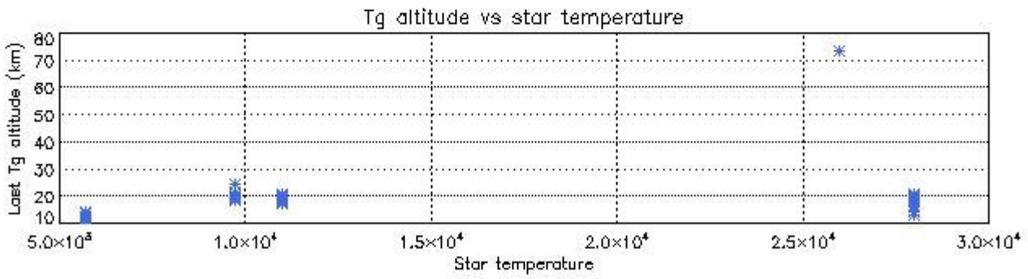
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.431	18.921	10.252
St. deviation:	8.0597	6.1019	1.8367
Maximum:	73.681	40.401	12.639
Minimum:	10.100	3.4237	5.6193
Number of data:	58.000	172.00	14.000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

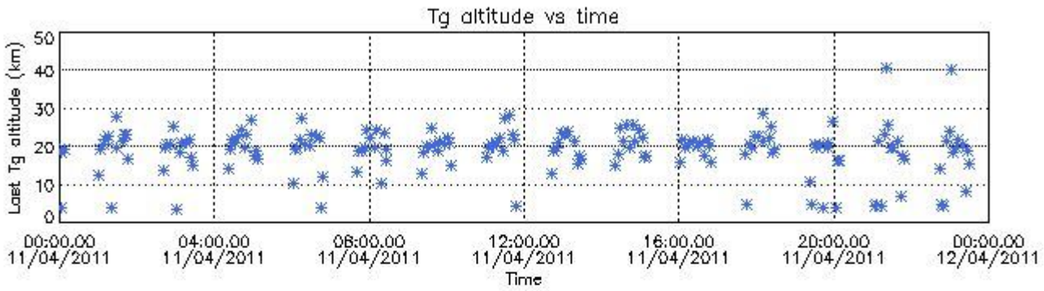


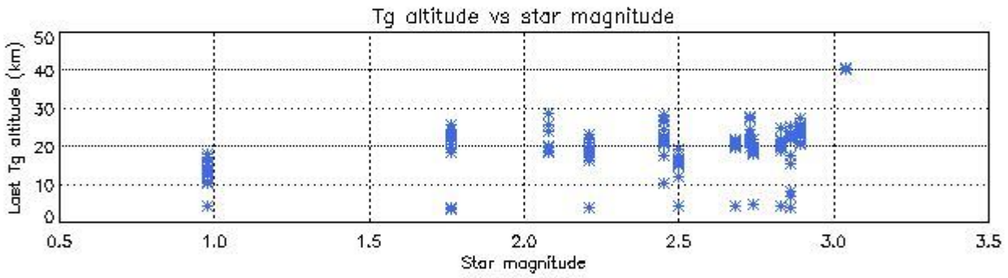


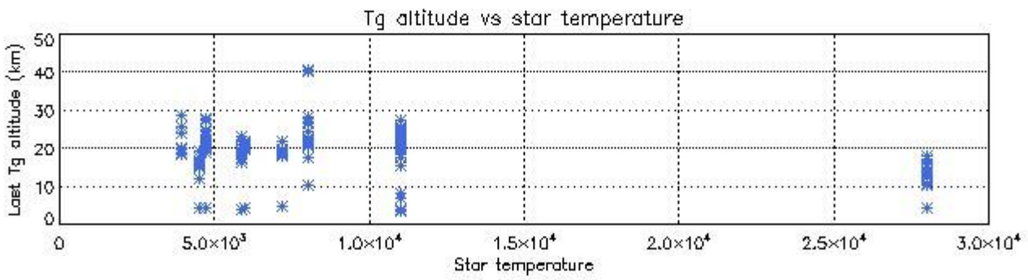


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

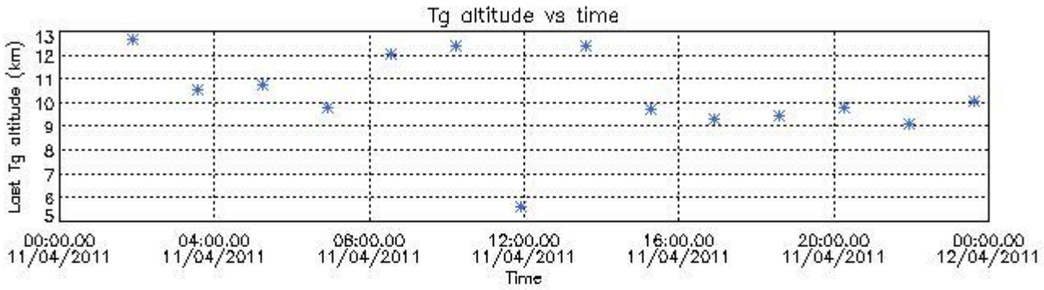


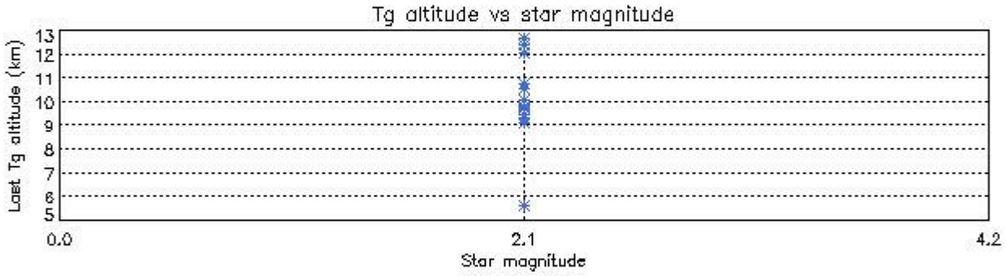


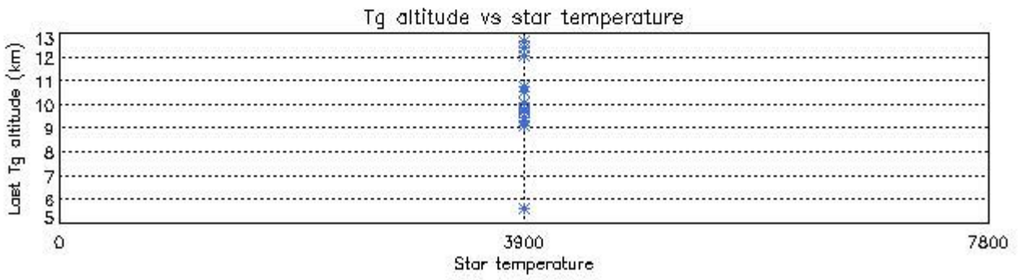


6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost





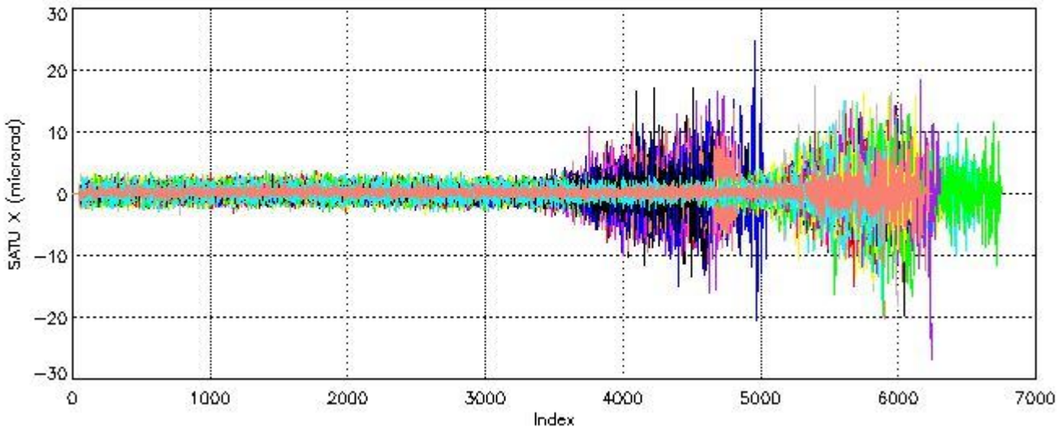


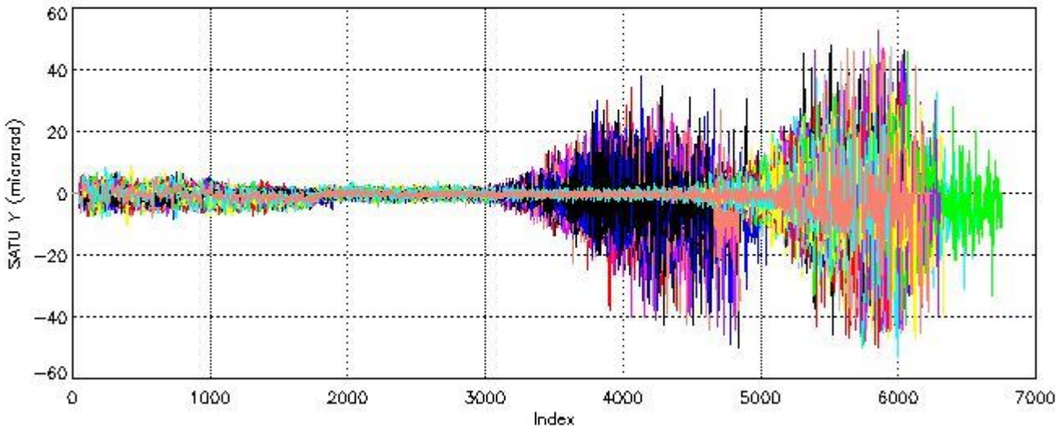
7. Star Acquisition and Tracking Unit (SATU)

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:	0.26270	-0.68671	0.26230	-0.99016
St. deviation:	0.65827	1.7585	0.81664	1.6859
Maximum:	3.7000	8.9000	14.700	8.5000
Minimum:	-3.3000	-10.400	-11.400	-16.300

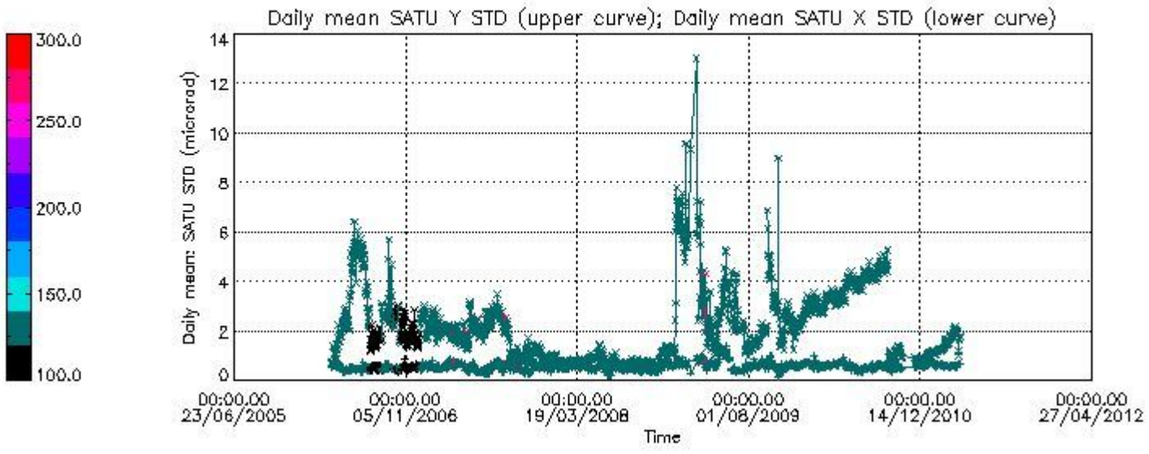
Number of data:	78800.	78800.	1.8080E+05	1.8080E+05

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

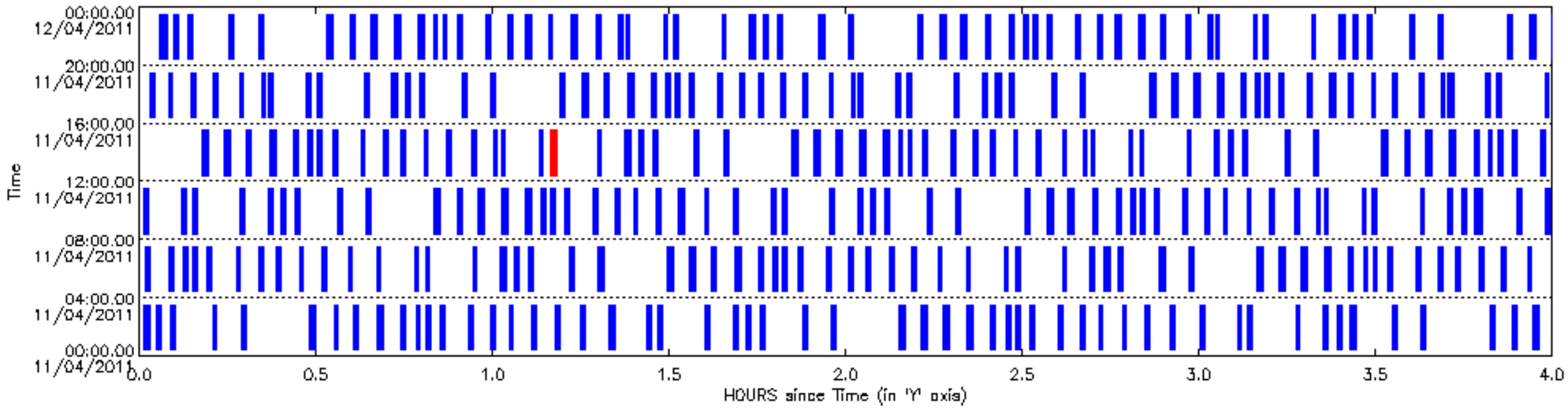


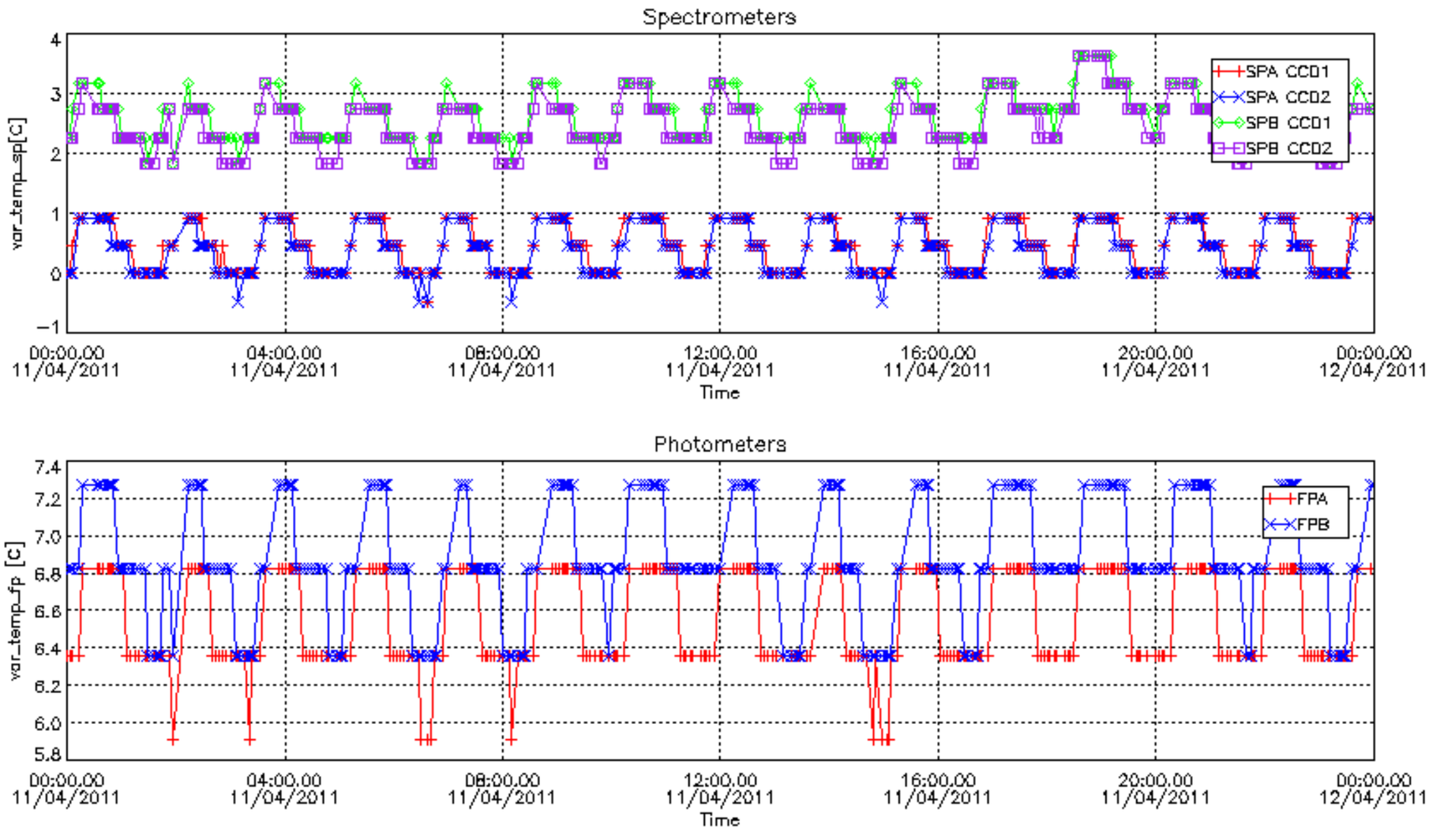
8. Auxiliary Data Files used for the production reported in section 2.4

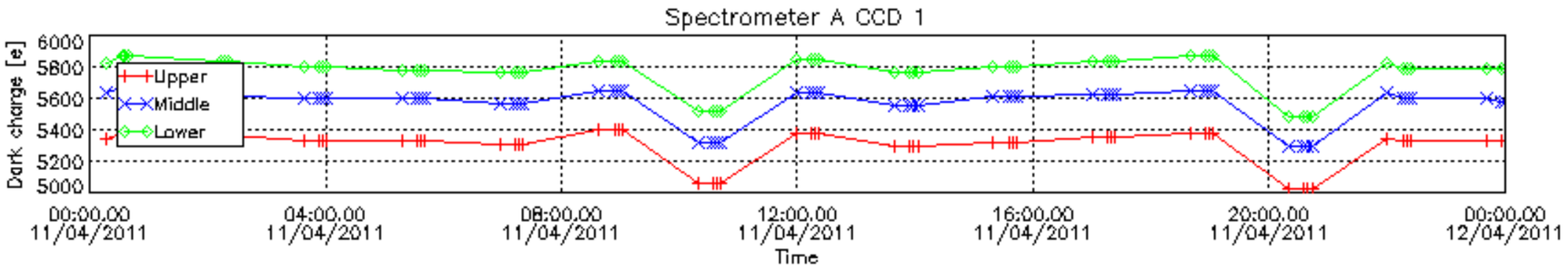
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

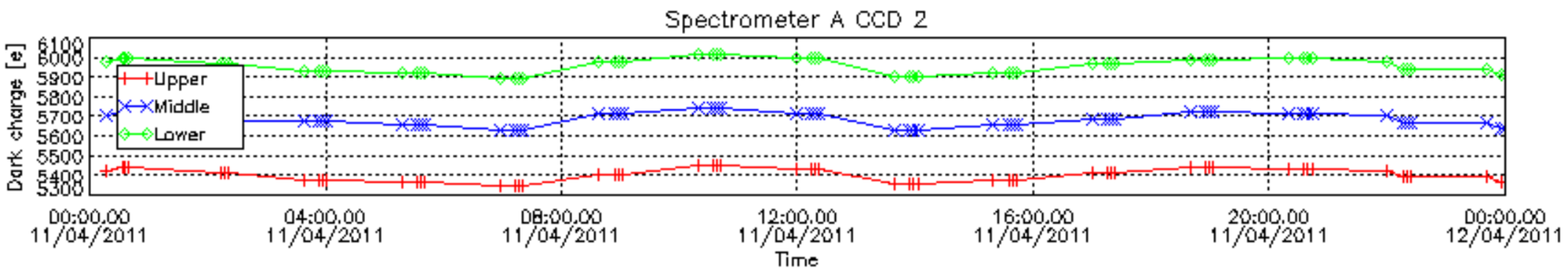
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	11-APR-2011 00:00:34
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110407_084842_20110406_000000_20500101_000000	1	11-APR-2011 00:00:34
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	11-APR-2011 00:00:34
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-APR-2011 00:00:34
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	11-APR-2011 00:00:34
ECMWF_FILE	AUX_ECF_AXNECM20110410_063732_20110410_210000_20110411_090000	1	11-APR-2011 00:00:34
ECMWF_FILE	AUX_ECF_AXNECM20110410_181732_20110411_030000_20110411_150000	44	11-APR-2011 03:16:25
ECMWF_FILE	AUX_ECA_AXNECM20110411_062719_20110410_210000_20110411_090000	88	11-APR-2011 06:36:53
ECMWF_FILE	AUX_ECF_AXNECM20110410_181732_20110411_030000_20110411_150000	102	11-APR-2011 07:40:37
ECMWF_FILE	AUX_ECF_AXNECM20110411_062720_20110411_090000_20110411_210000	125	11-APR-2011 09:23:56
ECMWF_FILE	AUX_ECF_AXNECM20110411_062720_20110411_150000_20110412_030000	213	11-APR-2011 15:58:03
ECMWF_FILE	AUX_ECA_AXNECM20110411_180547_20110411_090000_20110411_210000	235	11-APR-2011 17:33:26
ECMWF_FILE	AUX_ECF_AXNECM20110411_062720_20110411_150000_20110412_030000	279	11-APR-2011 20:49:53
ECMWF_FILE	AUX_ECF_AXNECM20110411_062720_20110411_210000_20110412_090000	298	11-APR-2011 22:15:57
OPTIONAL_ECMWF_FILE	MISSING	1	11-APR-2011 00:00:34
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110410_223846_000057383101_00216_47644_2881.N1	1	11-APR-2011 00:00:34
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110411_001424_000057383101_00217_47645_2882.N1	6	11-APR-2011 00:33:03
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110411_015521_000041443101_00218_47646_2883.N1	27	11-APR-2011 01:57:29
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110411_030944_000057383101_00219_47647_2884.N1	44	11-APR-2011 03:16:25
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110411_045041_000057383101_00220_47648_2885.N1	66	11-APR-2011 04:56:39

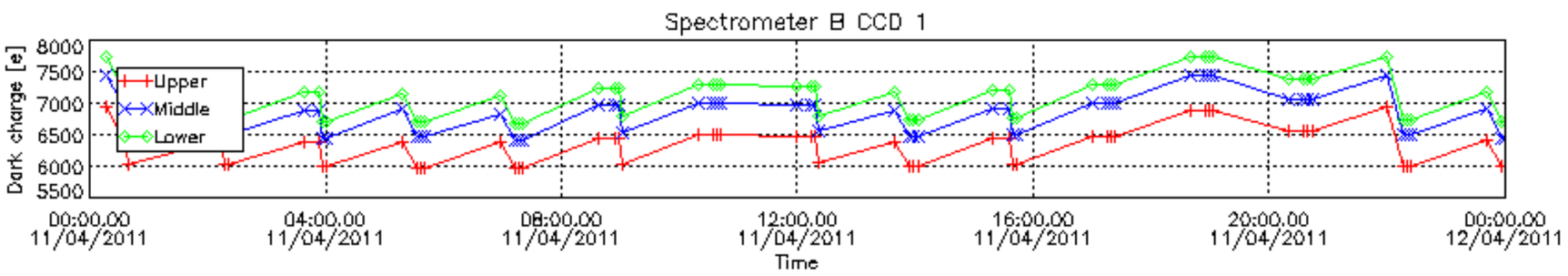
ORBIT_DATA_FILE	DOR_NAV_0PNPDK20110411_063138_000035073101_00221_47649_4275.N1	88	11-APR-2011 06:36:53
ORBIT_DATA_FILE	DOR_NAV_0PNPDK20110411_073524_000060573101_00222_47650_4276.N1	102	11-APR-2011 07:40:37
ORBIT_DATA_FILE	DOR_NAV_0PNPDK20110411_092140_000054193101_00223_47651_4277.N1	125	11-APR-2011 09:23:56
ORBIT_DATA_FILE	DOR_NAV_0PNPDK20110411_105718_000057383101_00224_47652_4278.N1	146	11-APR-2011 11:01:05
ORBIT_DATA_FILE	DOR_NAV_0PNPDK20110411_123815_000054203101_00225_47653_4279.N1	169	11-APR-2011 12:41:19
ORBIT_DATA_FILE	DOR_NAV_0PNPDK20110411_141353_000057383101_00226_47654_4280.N1	191	11-APR-2011 14:21:33
ORBIT_DATA_FILE	DOR_NAV_0PNPDK20110411_155450_000054193101_00227_47655_4281.N1	213	11-APR-2011 15:58:03
ORBIT_DATA_FILE	DOR_NAV_0PNPDK20110411_173029_000057383101_00228_47656_4282.N1	235	11-APR-2011 17:33:26
ORBIT_DATA_FILE	DOR_NAV_0PNPDK20110411_190607_000057383101_00229_47657_4283.N1	257	11-APR-2011 19:11:14
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110411_204704_000041443101_00230_47658_2886.N1	279	11-APR-2011 20:49:53
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110411_220127_000057383101_00230_47658_2887.N1	298	11-APR-2011 22:15:57
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110411_234224_000054193101_00231_47659_2888.N1	321	11-APR-2011 23:56:13

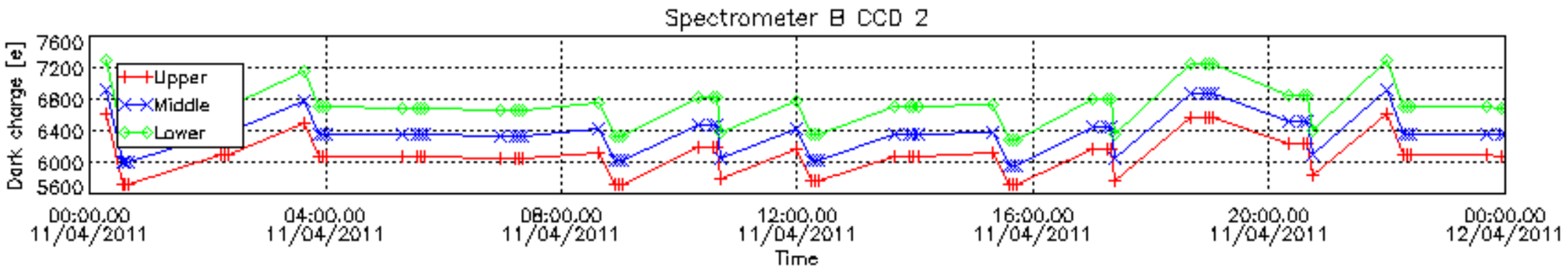

00:00.00
12/04/2011
20:00.00
11/04/2011
16:00.00
11/04/2011
12:00.00
11/04/2011
08:00.00
11/04/2011
04:00.00
11/04/2011
00:00.00
11/04/2011
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

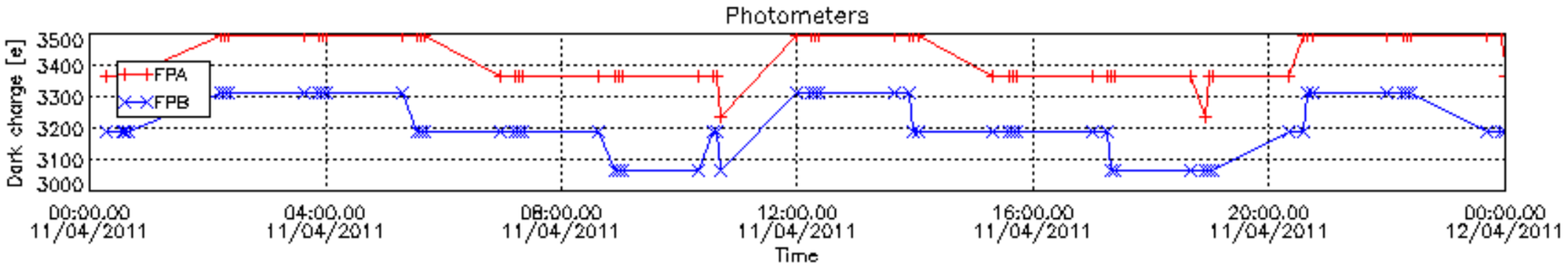

Spectrometers
var_temp_sp[C]
4
3
2
1
0
−1
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
11/04/2011
04:00.00
11/04/2011
08:00.00
11/04/2011
12:00.00
11/04/2011
16:00.00
11/04/2011
20:00.00
11/04/2011
00:00.00
12/04/2011
Time
Photometers
var_temp_fp [C]
7.4
7.2
7.0
6.8
6.6
6.4
6.2
6.0
5.8
FPA
FPB
00:00.00
11/04/2011
04:00.00
11/04/2011
08:00.00
11/04/2011
12:00.00
11/04/2011
16:00.00
11/04/2011
20:00.00
11/04/2011
00:00.00
12/04/2011
Time

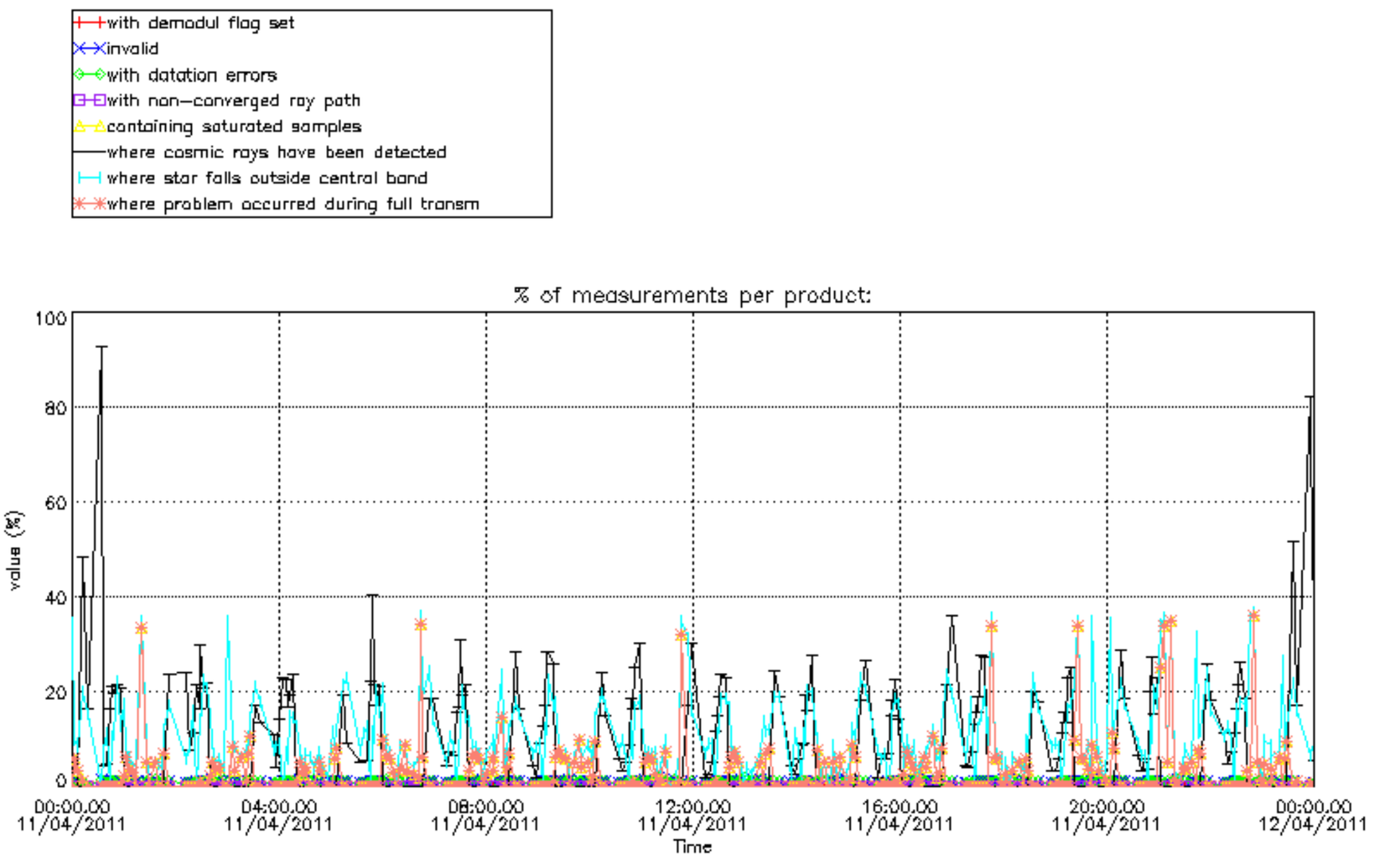

Spectrometer A CCD 1
Dark charge [e]
6000
5800
5600
5400
5200
5000
Upper
Middle
Lower
00:00.00 11/04/2011
04:00.00 11/04/2011
08:00.00 11/04/2011
12:00.00 11/04/2011
16:00.00 11/04/2011
20:00.00 11/04/2011
00:00.00 12/04/2011
Time

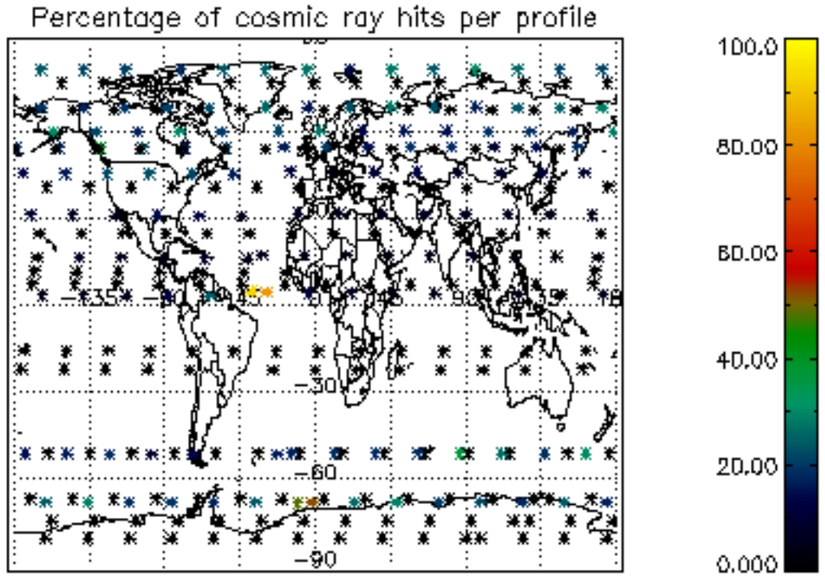

Spectrometer A CCD 2
Dark charge [e]
6100
6000
5900
5800
5700
5600
5500
5400
5300
Upper
Middle
Lower
00:00.00 11/04/2011
04:00.00 11/04/2011
08:00.00 11/04/2011
12:00.00 11/04/2011
16:00.00 11/04/2011
20:00.00 11/04/2011
00:00.00 12/04/2011
Time

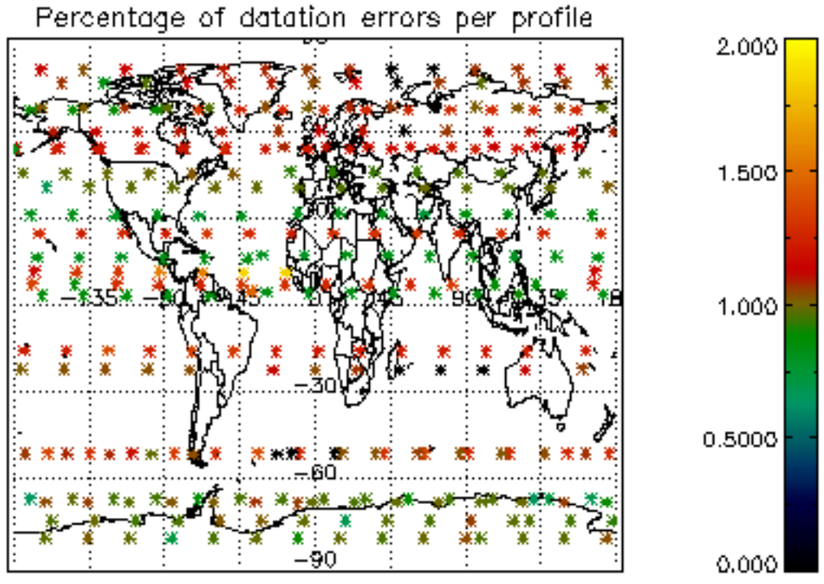

Spectrometer B CCD 1
Dark charge [e]
8000
7500
7000
6500
6000
5500
Upper
Middle
Lower
00:00.00 11/04/2011
04:00.00 11/04/2011
08:00.00 11/04/2011
12:00.00 11/04/2011
16:00.00 11/04/2011
20:00.00 11/04/2011
00:00.00 12/04/2011
Time

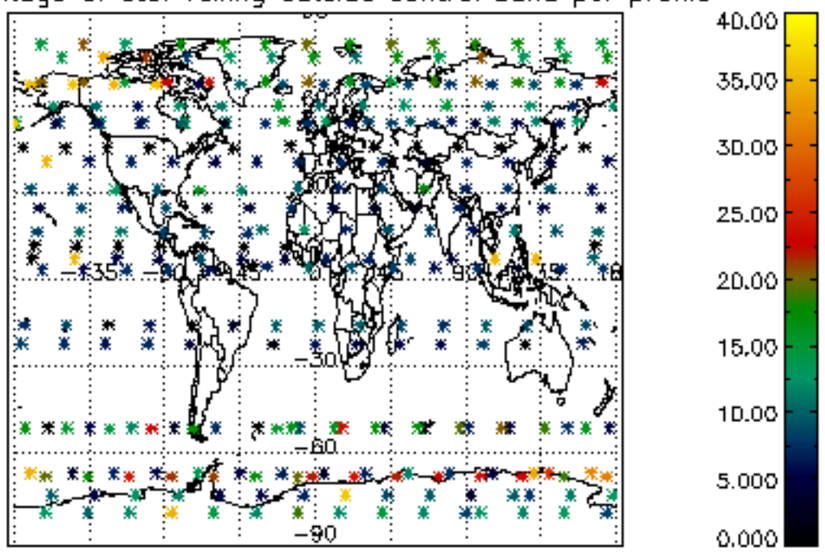

Spectrometer B CCD 2
Dark charge [e]
7600
7200
6800
6400
6000
5600
Upper
Middle
Lower
00:00.00 11/04/2011
04:00.00 11/04/2011
08:00.00 11/04/2011
12:00.00 11/04/2011
16:00.00 11/04/2011
20:00.00 11/04/2011
00:00.00 12/04/2011
Time

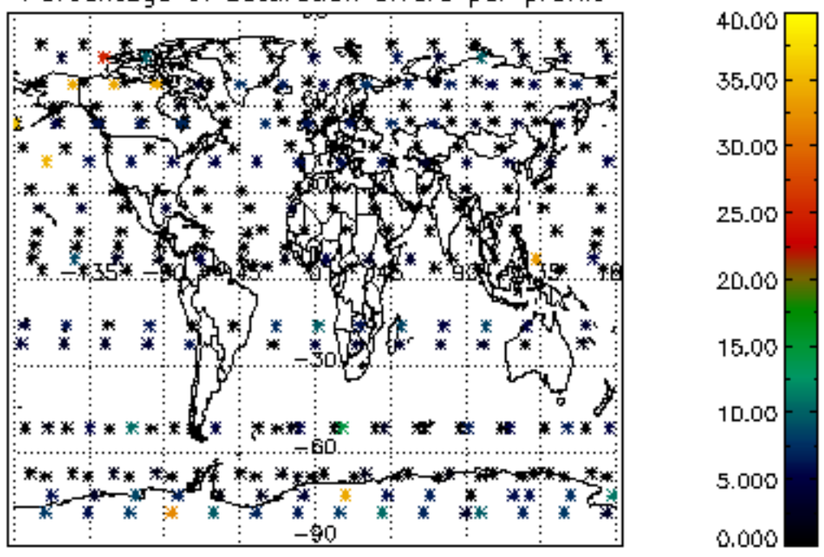

Photometers
Dark charge [e]
3500
3400
3300
3200
3100
3000
FPA
FPB
00:00.00 11/04/2011
04:00.00 11/04/2011
08:00.00 11/04/2011
12:00.00 11/04/2011
16:00.00 11/04/2011
20:00.00 11/04/2011
00:00.00 12/04/2011
Time


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:
100
80
60
40
20
0
value (%)
00:00.00 11/04/2011
04:00.00 11/04/2011
08:00.00 11/04/2011
12:00.00 11/04/2011
16:00.00 11/04/2011
20:00.00 11/04/2011
00:00.00 12/04/2011
Time

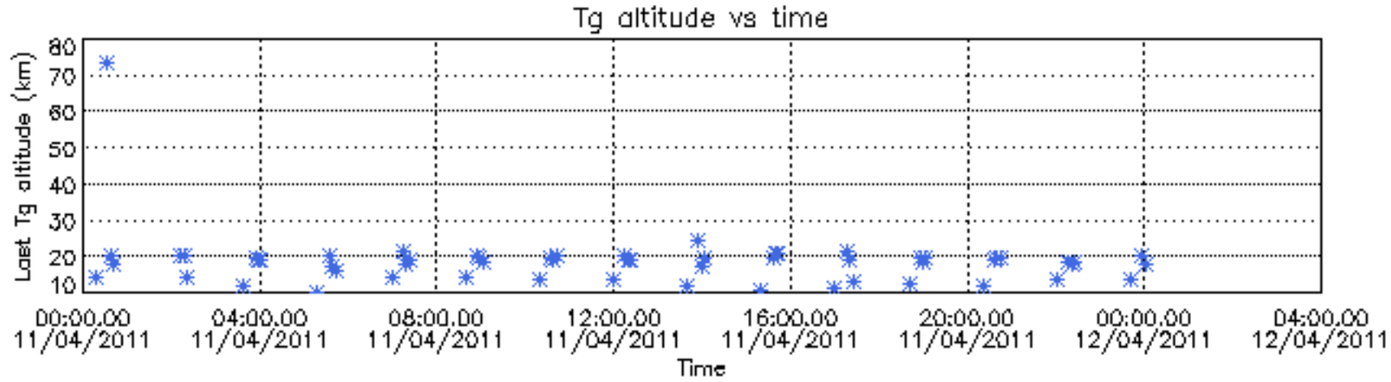

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
-30
-60
-90

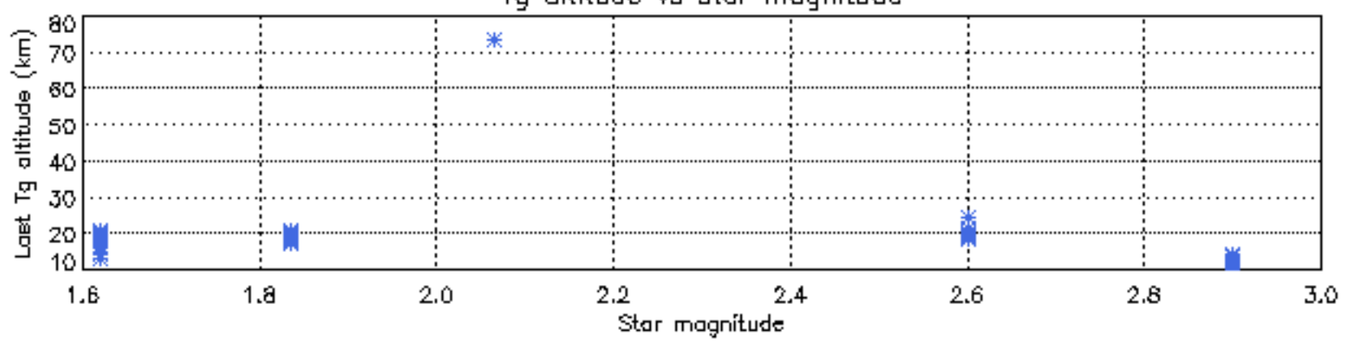

Percentage of datation errors per profile
2.000
1.500
1.000
0.5000
0.000
-30
-60
-90

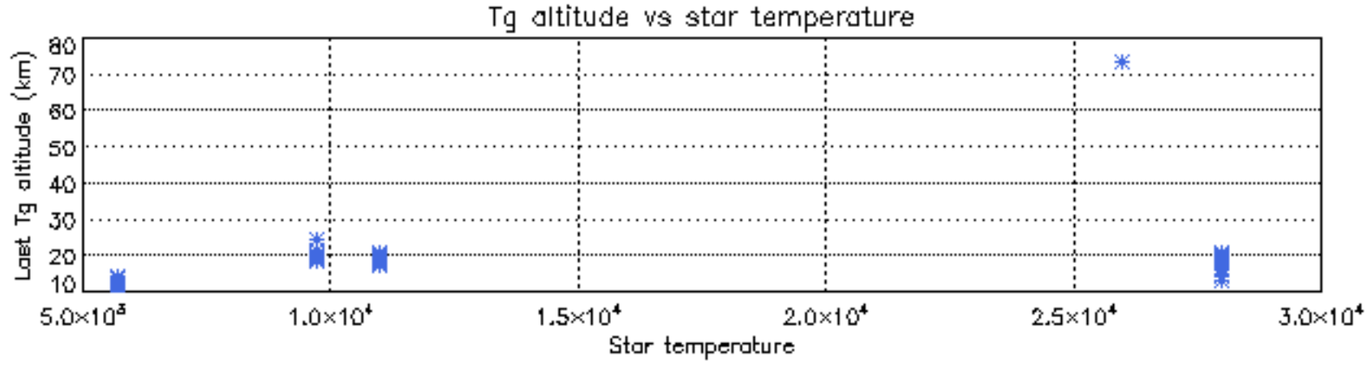

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
-30
-60
-90


Percentage of saturation errors per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
-30
-60
-90

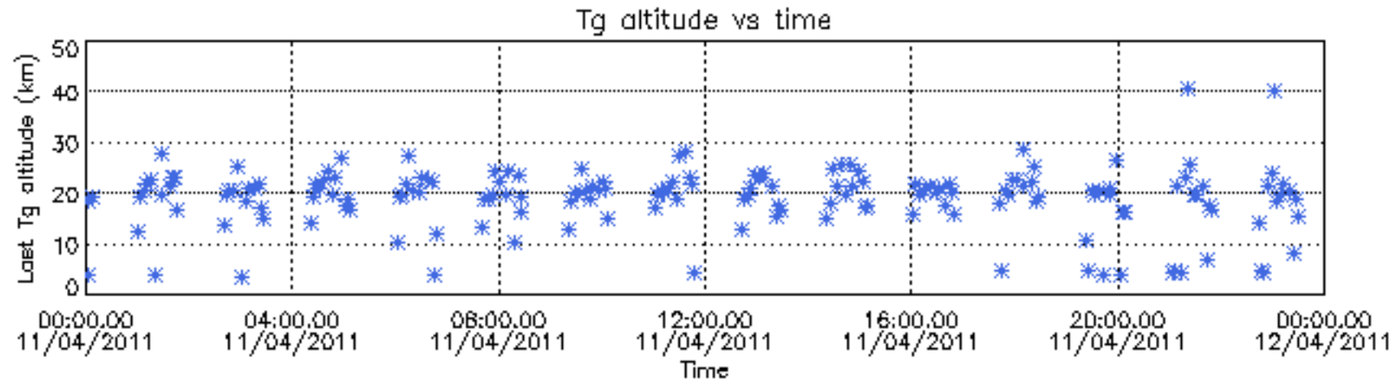
Tangent altitude at which the star is lost

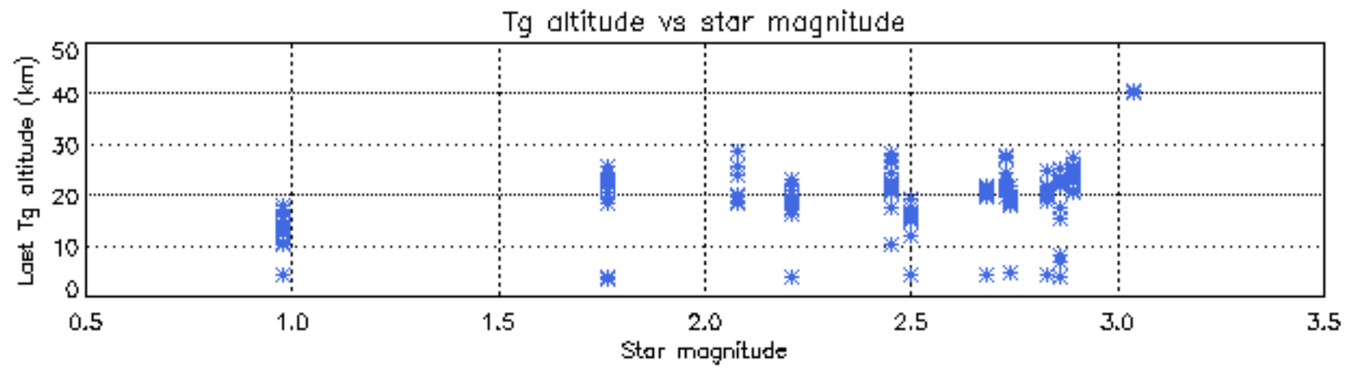


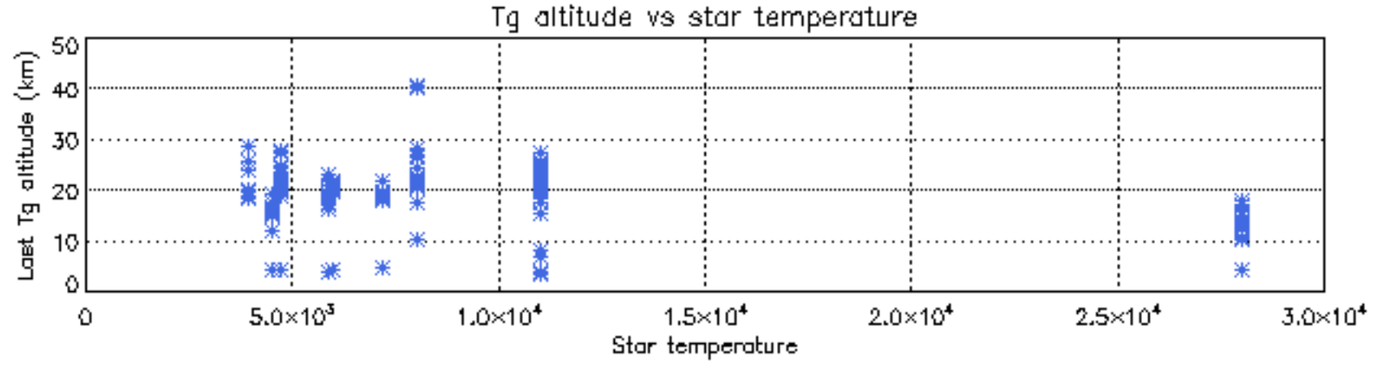




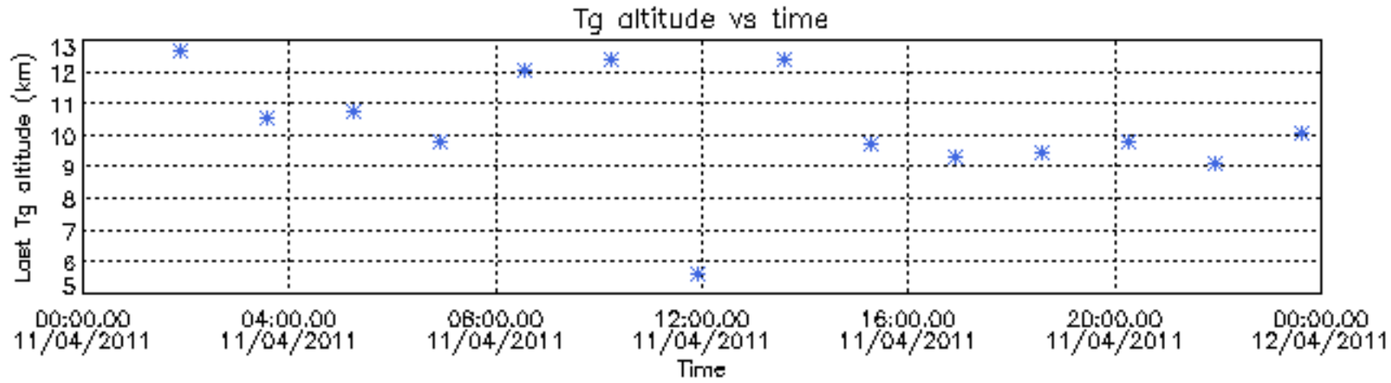
Tangent altitude at which the star is lost

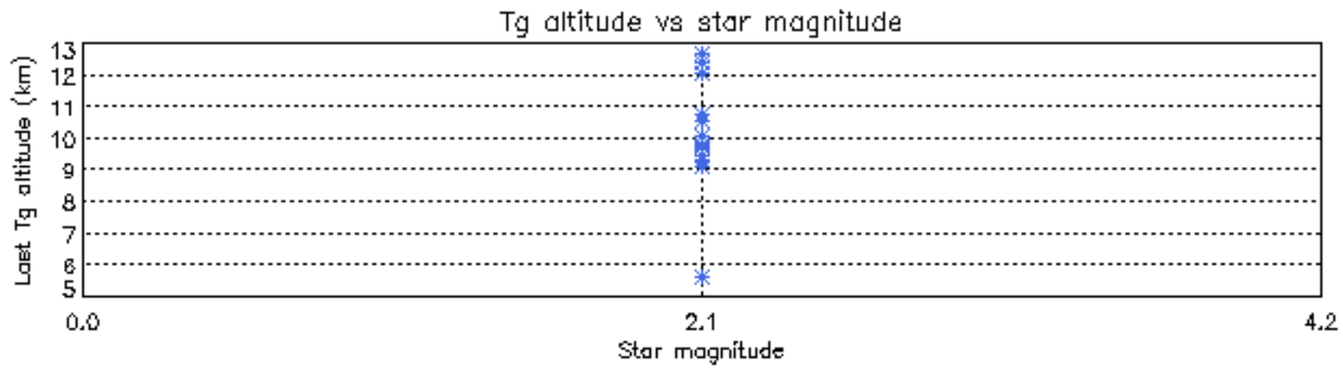


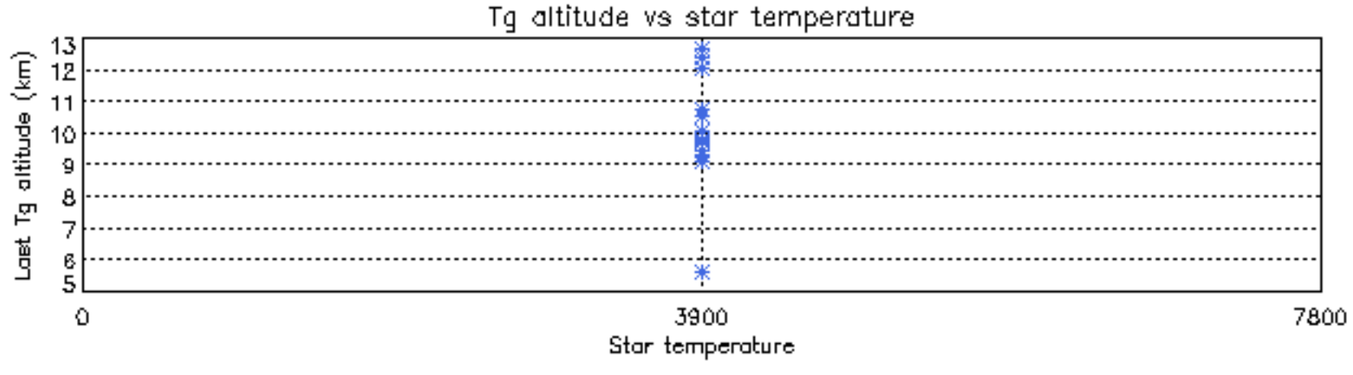


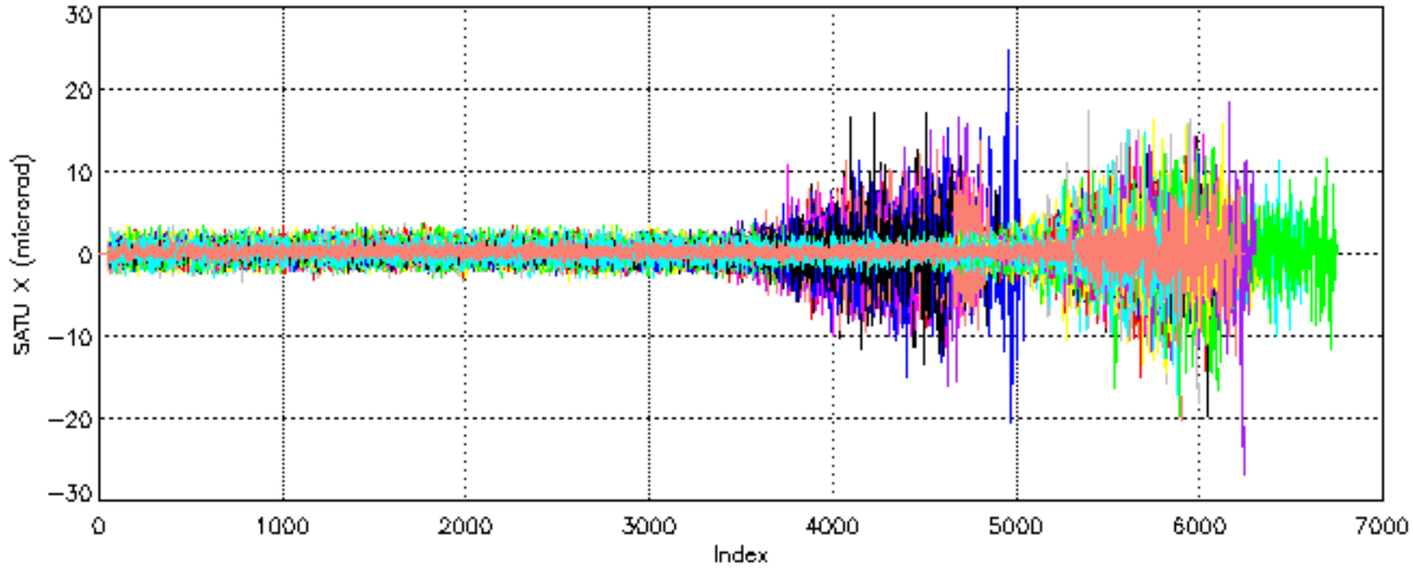


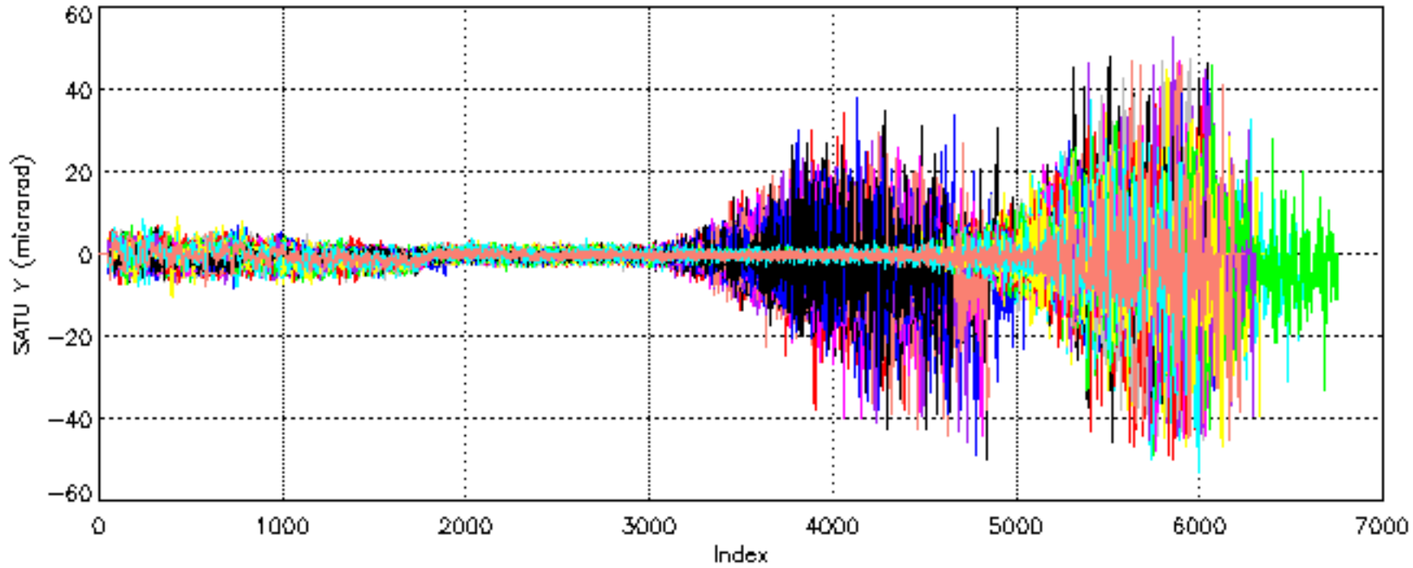
Tangent altitude at which the star is lost

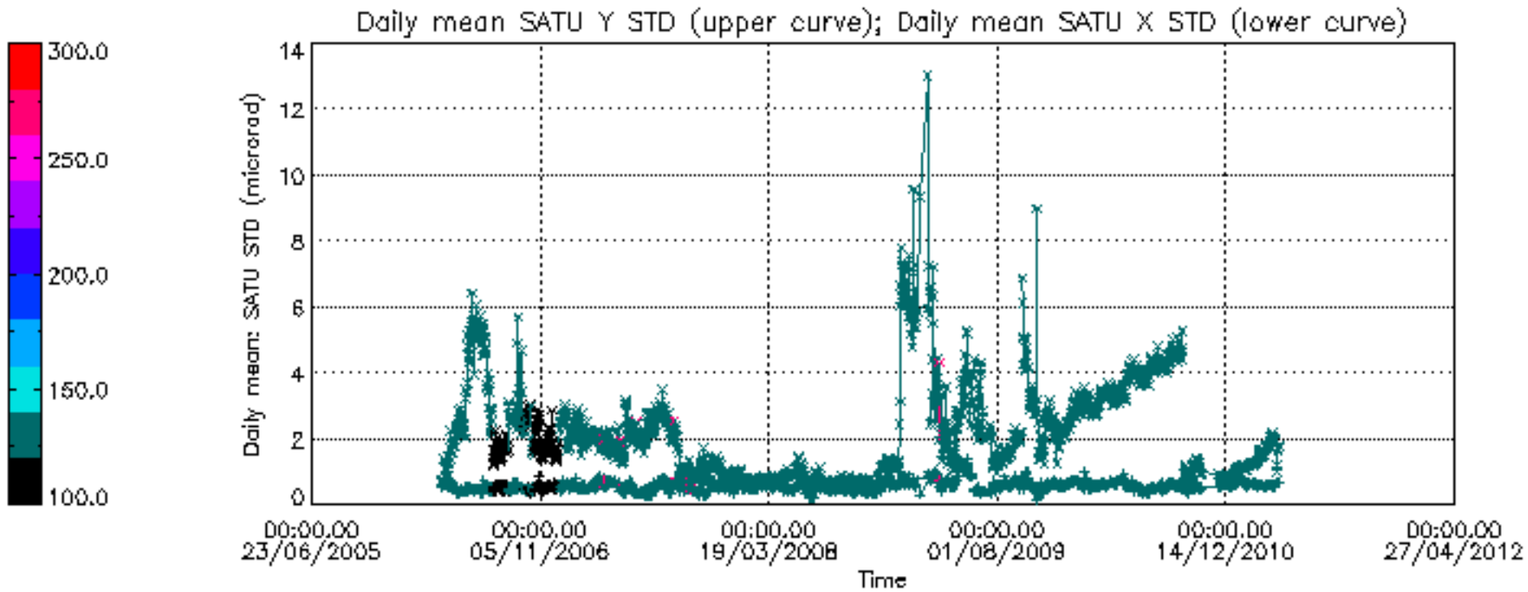







30
20
10
0
−10
−20
−30
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
7000
Index


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
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25; 6310.8; 01-APR-2011 03:23:34; Dark ; 56.0; 40; The Sco ; 1.86; 7100;occ; 112; 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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