GOMOS Daily Report 16-JUN-2011

Level 0 and Level 1 products

SUMMARY

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       - 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.

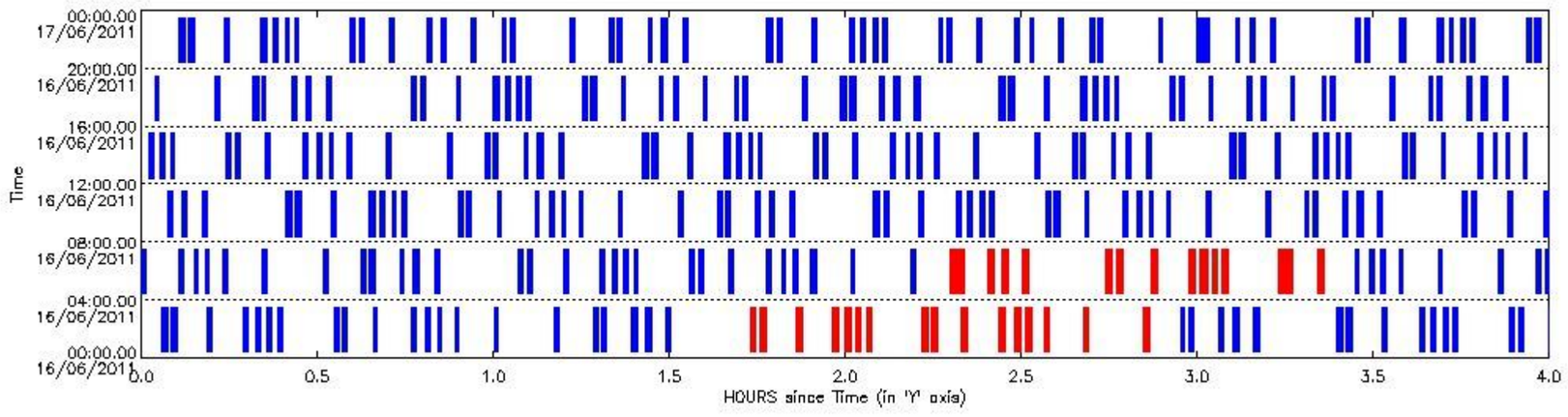
Item	Value
Time of report generation	19JUN2011 07:05:02
Data source version	GOMOS/6.01
Start time of products	16JUN2011 00:04:59
Stop time of products	16JUN2011 23:57:34
Store outputs in DB	Yes
Nb of level 1b prods	273
Nb of prods with errors	0

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

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

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

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



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

UTC start time	Star name	Star ID	Orbit
16-JUN-2011 01:43:42	DSA1068	0	48594
16-JUN-2011 01:45:22	16BetCet	52	48594
16-JUN-2011 01:51:31	AlpPhe	84	48594
16-JUN-2011 01:57:45	BetGru	63	48595
16-JUN-2011 01:59:48	AlpGru	31	48595
16-JUN-2011 02:01:46	GamGru	172	48595
16-JUN-2011 02:03:33	AlpPav	45	48595
16-JUN-2011 02:13:06	20EpsSgr	38	48595
16-JUN-2011 02:14:35	19DelSgr	116	48595
16-JUN-2011 02:19:50	35EtaOph	86	48595
16-JUN-2011 02:26:17	60BetOph	126	48595
16-JUN-2011 02:28:46	55AlpOph	59	48595
16-JUN-2011 02:30:48	27BetHer	127	48595
16-JUN-2011 02:33:48	40ZetHer	133	48595
16-JUN-2011 02:40:32	23BetDra	130	48595

16-JUN-2011 02:50:49	5AlpCep	89	48595
16-JUN-2011 06:17:45	11BetCas	74	48597
16-JUN-2011 06:19:09	18AlpCas	68	48597
16-JUN-2011 06:24:22	57Gam1And	73	48597
16-JUN-2011 06:26:43	43BetAnd	53	48597
16-JUN-2011 06:30:15	13AlpAri	50	48597
16-JUN-2011 06:44:28	DSA1068	0	48597
16-JUN-2011 06:46:07	16BetCet	52	48597
16-JUN-2011 06:52:16	AlpPhe	84	48597
16-JUN-2011 06:58:30	BetGru	63	48598
16-JUN-2011 07:00:33	AlpGru	31	48598
16-JUN-2011 07:02:32	GamGru	172	48598
16-JUN-2011 07:04:16	AlpPav	45	48598
16-JUN-2011 07:13:50	20EpsSgr	38	48598
16-JUN-2011 07:15:18	19DelSgr	116	48598
16-JUN-2011 07:20:32	35EtaOph	86	48598

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_1PNPDE20110616_000459_000000573103_00303_48593_5821.N1	16-JUN-2011 00:04:59	Dark	56.500	52	16Bet Cet	2.0370	4500.0	113	48593	No
2	GOM_TRA_1PNPDE20110616_001108_000000443103_00303_48593_5822.N1	16-JUN-2011 00:11:08	Dark	43.500	84	Alp Phe	2.3970	4500.0	87	48593	No
3	GOM_TRA_1PNPDE20110616_001722_000000523103_00304_48594_5823.N1	16-JUN-2011 00:17:22	Dark	52.000	63	Bet Gru	2.1500	2800.0	104	48594	No
4	GOM_TRA_1PNPDE20110616_001925_000000493103_00304_48594_5824.N1	16-JUN-2011 00:19:25	Dark	49.000	31	Alp Gru	1.7340	15200.	98	48594	No
5	GOM_TRA_1PNPDE20110616_002123_000000463103_00304_48594_5825.N1	16-JUN-2011 00:21:23	Straylight	46.000	172	Gam Gru	3.0030	13100.	92	48594	No
6	GOM_TRA_1PNPDE20110616_002310_000000443103_00304_48594_5826.N1	16-JUN-2011 00:23:10	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	48594	No
7	GOM_TRA_1PNPDE20110616_003244_000000493103_00304_48594_5827.N1	16-JUN-2011 00:32:44	Twi_and_stray	48.500	38	20Eps Sgr	1.8360	11000.	97	48594	No
8	GOM_TRA_1PNPDE20110616_003413_000000543103_00304_48594_5828.N1	16-JUN-2011 00:34:13	Twi_and_stray	53.500	116	19Del Sgr	2.7000	4100.0	107	48594	No
9	GOM_TRA_1PNPDE20110616_003928_000000403103_00304_48594_5829.N1	16-JUN-2011 00:39:28	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	48594	No
10	GOM_TRA_1PNPDE20110616_004555_000000453103_00304_48594_5830.N1	16-JUN-2011 00:45:55	Bright	44.500	126	60Bet Oph	2.7700	4250.0	89	48594	No
11	GOM_TRA_1PNPDE20110616_004825_000000443103_00304_48594_5831.N1	16-JUN-2011 00:48:25	Bright	43.500	59	55Alp Oph	2.0800	8900.0	87	48594	No
12	GOM_TRA_1PNPDE20110616_005026_000000363103_00304_48594_5832.N1	16-JUN-2011 00:50:26	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	48594	No
13	GOM_TRA_1PNPDE20110616_005327_000000393103_00304_48594_5833.N1	16-JUN-2011 00:53:27	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	48594	No
14	GOM_TRA_1PNPDE20110616_010011_000000373103_00304_48594_5834.N1	16-JUN-2011 01:00:11	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	48594	No
15	GOM_TRA_1PNPDE20110616_011028_000000473103_00304_48594_5835.N1	16-JUN-2011 01:10:28	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	48594	No
16	GOM_TRA_1PNPDE20110616_011656_000000523103_00304_48594_5836.N1	16-JUN-2011 01:16:56	Bright	52.000	74	11Bet Cas	2.2680	6600.0	104	48594	No
17	GOM_TRA_1PNPDE20110616_011820_000000433103_00304_48594_5837.N1	16-JUN-2011 01:18:20	Bright	43.000	68	18Alp Cas	2.2250	4500.0	86	48594	No
18	GOM_TRA_1PNPDE20110616_012332_000000573103_00304_48594_5838.N1	16-JUN-2011 01:23:32	Bright	57.000	73	57Gam1And	2.2600	13100.	114	48594	No
19	GOM_TRA_1PNPDE20110616_012553_000000573103_00304_48594_5839.N1	16-JUN-2011 01:25:53	Twi_and_stray	57.000	53	43Bet And	2.0480	3300.0	114	48594	No
20	GOM_TRA_1PNPDE20110616_012925_000000473103_00304_48594_5840.N1	16-JUN-2011 01:29:25	Twilight	46.500	50	13Alp Ari	2.0070	4250.0	93	48594	No
21	GOM_TRA_1PNPDE20110616_025710_000000433103_00305_48595_5951.N1	16-JUN-2011 02:57:10	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	48595	No
22	GOM_TRA_1PNPDE20110616_025834_000000433103_00305_48595_5952.N1	16-JUN-2011 02:58:34	Bright	42.500	68	18Alp Cas	2.2250	4500.0	85	48595	No
23	GOM_TRA_1PNPDE20110616_030346_000000413103_00305_48595_5953.N1	16-JUN-2011 03:03:46	Bright	41.000	73	57Gam1And	2.2600	13100.	82	48595	No
24	GOM_TRA_1PNPDE20110616_030607_000000583103_00305_48595_5954.N1	16-JUN-2011 03:06:07	Twi_and_stray	58.000	53	43Bet And	2.0480	3300.0	116	48595	No
25	GOM_TRA_1PNPDE20110616_030939_000000523103_00305_48595_5955.N1	16-JUN-2011 03:09:39	Twilight	51.500	50	13Alp Ari	2.0070	4250.0	103	48595	No
26	GOM_TRA_1PNPDE20110616_032529_000000553103_00305_48595_5956.N1	16-JUN-2011 03:25:29	Dark	55.000	52	16Bet Cet	2.0370	4500.0	110	48595	No
27	GOM_TRA_1PNPDE20110616_033138_000000483103_00305_48595_5957.N1	16-JUN-2011 03:31:38	Dark	47.500	84	Alp Phe	2.3970	4500.0	95	48595	No
28	GOM_TRA_1PNPDE20110616_033752_000000503103_00306_48596_5958.N1	16-JUN-2011 03:37:52	Dark	50.000	63	Bet Gru	2.1500	2800.0	100	48596	No
29	GOM_TRA_1PNPDE20110616_033955_000000503103_00306_48596_5959.N1	16-JUN-2011 03:39:55	Dark	50.000	31	Alp Gru	1.7340	15200.	100	48596	No
30	GOM_TRA_1PNPDE20110616_034154_000000463103_00306_48596_5960.N1	16-JUN-2011 03:41:54	Straylight	46.000	172	Gam Gru	3.0030	13100.	92	48596	No
31	GOM_TRA_1PNPDE20110616_034339_000000433103_00306_48596_5961.N1	16-JUN-2011 03:43:39	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	48596	No
32	GOM_TRA_1PNPDE20110616_035313_000000483103_00306_48596_5962.N1	16-JUN-2011 03:53:13	Twi_and_stray	48.000	38	20Eps Sgr	1.8360	11000.	96	48596	No
33	GOM_TRA_1PNPDE20110616_035442_000000503103_00306_48596_5963.N1	16-JUN-2011 03:54:42	Twi_and_stray	50.000	116	19Del Sgr	2.7000	4100.0	100	48596	No
34	GOM_TRA_1PNPDE20110616_035956_000000393103_00306_48596_5964.N1	16-JUN-2011 03:59:56	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	48596	No
35	GOM_TRA_1PNPDE20110616_040623_000000473103_00306_48596_5965.N1	16-JUN-2011 04:06:23	Bright	47.000	126	60Bet Oph	2.7700	4250.0	94	48596	No
36	GOM_TRA_1PNPDE20110616_040852_000000433103_00306_48596_5966.N1	16-JUN-2011 04:08:52	Bright	42.500	59	55Alp Oph	2.0800	8900.0	85	48596	No
37	GOM_TRA_1PNPDE20110616_041054_000000383103_00306_48596_5967.N1	16-JUN-2011 04:10:54	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	48596	No
38	GOM_TRA_1PNPDE20110616_041354_000000403103_00306_48596_5968.N1	16-JUN-2011 04:13:54	Bright	39.500	133	40Zet Her	2.8070	6000.0	79	48596	No

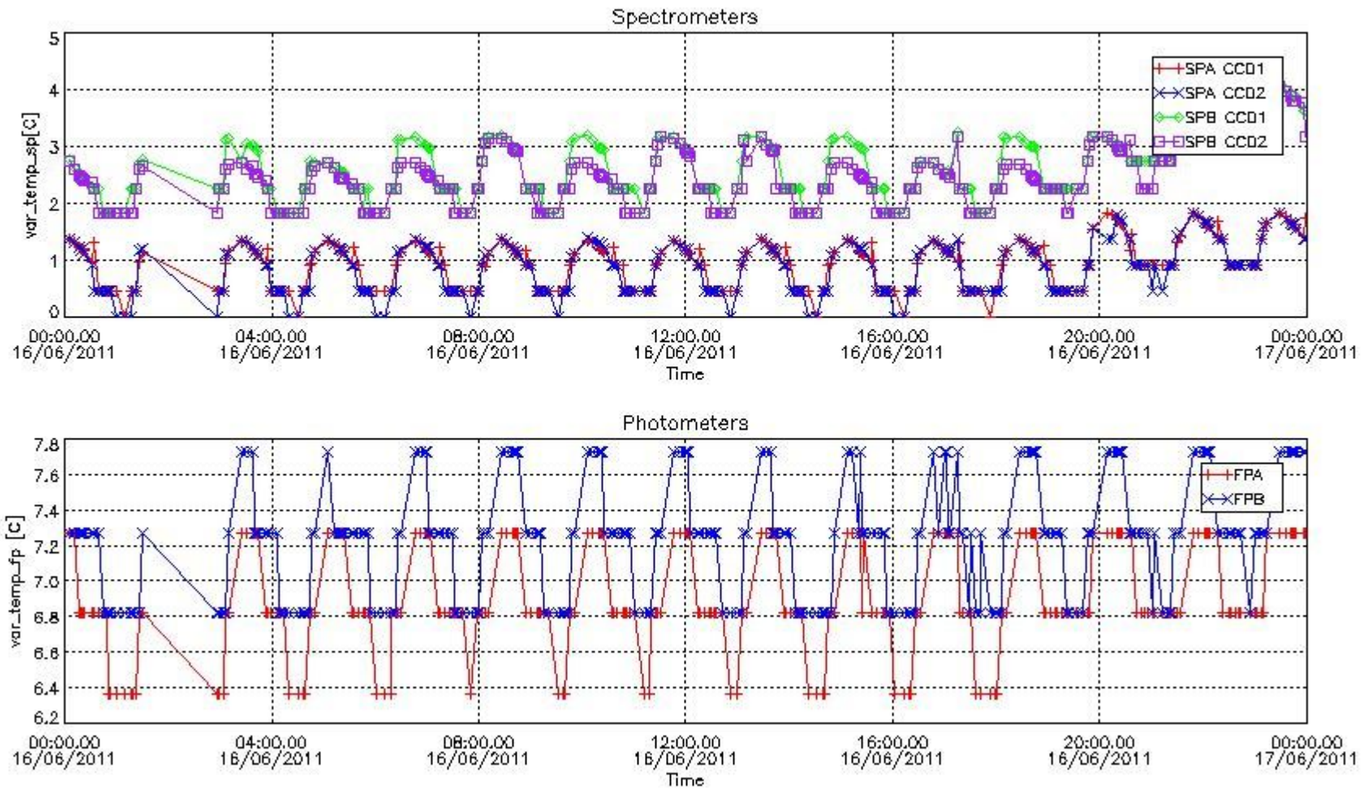
39	GOM_TRA_1PNPDE20110616_042038_000000413103_00306_48596_5969.N1	16-JUN-2011 04:20:38	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	48596	No
40	GOM_TRA_1PNPDE20110616_043054_000000473103_00306_48596_5970.N1	16-JUN-2011 04:30:54	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	48596	No
41	GOM_TRA_1PNPDE20110616_043724_000000433103_00306_48596_5973.N1	16-JUN-2011 04:37:24	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	48596	No
42	GOM_TRA_1PNPDE20110616_043848_000000553103_00306_48596_5974.N1	16-JUN-2011 04:38:48	Bright	55.000	68	18Alp Cas	2.2250	4500.0	110	48596	No
43	GOM_TRA_1PNPDE20110616_044400_000000413103_00306_48596_5975.N1	16-JUN-2011 04:44:00	Bright	40.500	73	57Gam1And	2.2600	13100.	81	48596	No
44	GOM_TRA_1PNPDE20110616_044621_000000593103_00306_48596_5976.N1	16-JUN-2011 04:46:21	Twi_and_stray	58.500	53	43Bet And	2.0480	3300.0	117	48596	No
45	GOM_TRA_1PNPDE20110616_044953_000000523103_00306_48596_5977.N1	16-JUN-2011 04:49:53	Twilight	51.500	50	13Alp Ari	2.0070	4250.0	103	48596	No
46	GOM_TRA_1PNPDE20110616_050544_000000563103_00306_48596_5978.N1	16-JUN-2011 05:05:44	Dark	55.500	52	16Bet Cet	2.0370	4500.0	111	48596	No
47	GOM_TRA_1PNPDE20110616_051153_000000483103_00306_48596_5979.N1	16-JUN-2011 05:11:53	Dark	48.000	84	Alp Phe	2.3970	4500.0	96	48596	No
48	GOM_TRA_1PNPDE20110616_051807_000000543103_00307_48597_5980.N1	16-JUN-2011 05:18:07	Dark	53.500	63	Bet Gru	2.1500	2800.0	107	48597	No
49	GOM_TRA_1PNPDE20110616_052010_000000503103_00307_48597_5981.N1	16-JUN-2011 05:20:10	Dark	50.000	31	Alp Gru	1.7340	15200.	100	48597	No
50	GOM_TRA_1PNPDE20110616_052209_000000463103_00307_48597_5982.N1	16-JUN-2011 05:22:09	Straylight	46.000	172	Gam Gru	3.0030	13100.	92	48597	No
51	GOM_TRA_1PNPDE20110616_052354_000000443103_00307_48597_5983.N1	16-JUN-2011 05:23:54	Straylight	44.000	45	Alp Pav	1.9400	26000.	88	48597	No
52	GOM_TRA_1PNPDE20110616_053327_000000493103_00307_48597_5984.N1	16-JUN-2011 05:33:27	Twi_and_stray	48.500	38	20Eps Sgr	1.8360	11000.	97	48597	No
53	GOM_TRA_1PNPDE20110616_053456_000000503103_00307_48597_5985.N1	16-JUN-2011 05:34:56	Twi_and_stray	50.000	116	19Del Sgr	2.7000	4100.0	100	48597	No
54	GOM_TRA_1PNPDE20110616_054011_000000393103_00307_48597_5986.N1	16-JUN-2011 05:40:11	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	48597	No
55	GOM_TRA_1PNPDE20110616_054637_000000463103_00307_48597_5987.N1	16-JUN-2011 05:46:37	Bright	46.000	126	60Bet Oph	2.7700	4250.0	92	48597	No
56	GOM_TRA_1PNPDE20110616_054906_000000423103_00307_48597_5988.N1	16-JUN-2011 05:49:06	Bright	42.000	59	55Alp Oph	2.0800	8900.0	84	48597	No
57	GOM_TRA_1PNPDE20110616_055108_000000373103_00307_48597_5989.N1	16-JUN-2011 05:51:08	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	48597	No
58	GOM_TRA_1PNPDE20110616_055408_000000493103_00307_48597_5990.N1	16-JUN-2011 05:54:08	Bright	49.000	133	40Zet Her	2.8070	6000.0	98	48597	No
59	GOM_TRA_1PNPDE20110616_060052_000000413103_00307_48597_5991.N1	16-JUN-2011 06:00:52	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	48597	No
60	GOM_TRA_1PNPDE20110616_061108_000000483103_00307_48597_5992.N1	16-JUN-2011 06:11:08	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	48597	No
61	GOM_TRA_1PNPDK20110616_061737_000000463103_00307_48597_5331.N1	16-JUN-2011 06:17:37	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	48597	No
62	GOM_TRA_1PNPDK20110616_061902_000000453103_00307_48597_5332.N1	16-JUN-2011 06:19:02	Bright	45.000	68	18Alp Cas	2.2250	4500.0	90	48597	No
63	GOM_TRA_1PNPDK20110616_062415_000000403103_00307_48597_5333.N1	16-JUN-2011 06:24:15	Bright	39.500	73	57Gam1And	2.2600	13100.	79	48597	No
64	GOM_TRA_1PNPDK20110616_062635_000000563103_00307_48597_5334.N1	16-JUN-2011 06:26:35	Twi_and_stray	55.500	53	43Bet And	2.0480	3300.0	111	48597	No
65	GOM_TRA_1PNPDK20110616_063008_000000503103_00307_48597_5335.N1	16-JUN-2011 06:30:08	Twilight	49.500	50	13Alp Ari	2.0070	4250.0	99	48597	No
66	GOM_TRA_1PNPDK20110616_064559_000000573103_00307_48597_5336.N1	16-JUN-2011 06:45:59	Dark	57.000	52	16Bet Cet	2.0370	4500.0	114	48597	No
67	GOM_TRA_1PNPDK20110616_065208_000000553103_00307_48597_5337.N1	16-JUN-2011 06:52:08	Dark	54.500	84	Alp Phe	2.3970	4500.0	109	48597	No
68	GOM_TRA_1PNPDK20110616_065822_000000673103_00308_48598_5338.N1	16-JUN-2011 06:58:22	Dark	67.000	63	Bet Gru	2.1500	2800.0	134	48598	No
69	GOM_TRA_1PNPDK20110616_070025_000000463103_00308_48598_5339.N1	16-JUN-2011 07:00:25	Dark	46.000	31	Alp Gru	1.7340	15200.	92	48598	No
70	GOM_TRA_1PNPDK20110616_070224_000000453103_00308_48598_5340.N1	16-JUN-2011 07:02:24	Straylight	45.000	172	Gam Gru	3.0030	13100.	90	48598	No
71	GOM_TRA_1PNPDK20110616_070409_000000503103_00308_48598_5341.N1	16-JUN-2011 07:04:09	Straylight	50.000	45	Alp Pav	1.9400	26000.	100	48598	No
72	GOM_TRA_1PNPDK20110616_071342_000000483103_00308_48598_5342.N1	16-JUN-2011 07:13:42	Twi_and_stray	48.000	38	20Eps Sgr	1.8360	11000.	96	48598	No
73	GOM_TRA_1PNPDK20110616_071511_000000503103_00308_48598_5343.N1	16-JUN-2011 07:15:11	Twi_and_stray	50.000	116	19Del Sgr	2.7000	4100.0	100	48598	No
74	GOM_TRA_1PNPDK20110616_072025_000000393103_00308_48598_5344.N1	16-JUN-2011 07:20:25	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	48598	No
75	GOM_TRA_1PNPDK20110616_072650_000000443103_00308_48598_5370.N1	16-JUN-2011 07:26:50	Bright	43.500	126	60Bet Oph	2.7700	4250.0	87	48598	No
76	GOM_TRA_1PNPDK20110616_072920_000000443103_00308_48598_5371.N1	16-JUN-2011 07:29:20	Bright	44.000	59	55Alp Oph	2.0800	8900.0	88	48598	No
77	GOM_TRA_1PNPDK20110616_073122_000000393103_00308_48598_5372.N1	16-JUN-2011 07:31:22	Bright	39.000	127	27Bet Her	2.7810	4700.0	78	48598	No
78	GOM_TRA_1PNPDK20110616_073422_000000383103_00308_48598_5373.N1	16-JUN-2011 07:34:22	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	48598	No
79	GOM_TRA_1PNPDK20110616_074105_000000413103_00308_48598_5374.N1	16-JUN-2011 07:41:05	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	48598	No
80	GOM_TRA_1PNPDK20110616_075121_000000463103_00308_48598_5375.N1	16-JUN-2011 07:51:21	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	48598	No
81	GOM_TRA_1PNPDK20110616_075751_000000443103_00308_48598_5376.N1	16-JUN-2011 07:57:51	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	48598	No
82	GOM_TRA_1PNPDK20110616_075916_000000433103_00308_48598_5377.N1	16-JUN-2011 07:59:16	Bright	42.500	68	18Alp Cas	2.2250	4500.0	85	48598	No
83	GOM_TRA_1PNPDK20110616_080429_000000413103_00308_48598_5378.N1	16-JUN-2011 08:04:29	Bright	40.500	73	57Gam1And	2.2600	13100.	81	48598	No
84	GOM_TRA_1PNPDK20110616_080649_000000563103_00308_48598_5379.N1	16-JUN-2011 08:06:49	Twi_and_stray	56.000	53	43Bet And	2.0480	3300.0	112	48598	No
85	GOM_TRA_1PNPDK20110616_081022_000000493103_00308_48598_5380.N1	16-JUN-2011 08:10:22	Twilight	49.000	50	13Alp Ari	2.0070	4250.0	98	48598	No
86	GOM_TRA_1PNPDK20110616_082615_000000563103_00308_48598_5381.N1	16-JUN-2011 08:26:15	Dark	56.000	52	16Bet Cet	2.0370	4500.0	112	48598	No
87	GOM_TRA_1PNPDK20110616_083222_000000473103_00308_48598_5382.N1	16-JUN-2011 08:32:22	Dark	46.500	84	Alp Phe	2.3970	4500.0	93	48598	No
88	GOM_TRA_1PNPDK20110616_083837_000000653103_00309_48599_5383.N1	16-JUN-2011 08:38:37	Dark	65.000	63	Bet Gru	2.1500	2800.0	130	48599	No
89	GOM_TRA_1PNPDK20110616_084040_000000513103_00309_48599_5384.N1	16-JUN-2011 08:40:40	Dark	50.500	31	Alp Gru	1.7340	15200.	101	48599	No
90	GOM_TRA_1PNPDK20110616_084240_000000453103_00309_48599_5385.N1	16-JUN-2011 08:42:40	Straylight	45.000	172	Gam Gru	3.0030	13100.	90	48599	No
91	GOM_TRA_1PNPDK20110616_084423_000000423103_00309_48599_5386.N1	16-JUN-2011 08:44:23	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	48599	No
92	GOM_TRA_1PNPDK20110616_085356_000000453103_00309_48599_5387.N1	16-JUN-2011 08:53:56	Twi_and_stray	45.000	38	20Eps Sgr	1.8360	11000.	90	48599	No
93	GOM_TRA_1PNPDK20110616_085525_000000503103_00309_48599_5388.N1	16-JUN-2011 08:55:25	Twi_and_stray	49.500	116	19Del Sgr	2.7000	4100.0	99	48599	No
94	GOM_TRA_1PNPDK20110616_090039_000000393103_00309_48599_5389.N1	16-JUN-2011 09:00:39	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	48599	No
95	GOM_TRA_1PNPDK20110616_090704_000000433103_00309_48599_5416.N1	16-JUN-2011 09:07:04	Bright	42.500	126	60Bet Oph	2.7700	4250.0	85	48599	No
96	GOM_TRA_1PNPDK20110616_090934_000000423103_00309_48599_5417.N1	16-JUN-2011 09:09:34	Bright	42.000	59	55Alp Oph	2.0800	8900.0	84	48599	No
97	GOM_TRA_1PNPDK20110616_091136_000000383103_00309_48599_5418.N1	16-JUN-2011 09:11:36	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	48599	No

98	GOM_TRA_1PNPDK20110616_091436_000000373103_00309_48599_5419.N1	16-JUN-2011 09:14:36	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	48599	No
99	GOM_TRA_1PNPDK20110616_092119_000000413103_00309_48599_5420.N1	16-JUN-2011 09:21:19	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	48599	No
100	GOM_TRA_1PNPDK20110616_093134_000000483103_00309_48599_5421.N1	16-JUN-2011 09:31:34	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	48599	No
101	GOM_TRA_1PNPDK20110616_093805_000000493103_00309_48599_5422.N1	16-JUN-2011 09:38:05	Bright	49.000	74	11Bet Cas	2.2680	6600.0	98	48599	No
102	GOM_TRA_1PNPDK20110616_093929_000000513103_00309_48599_5423.N1	16-JUN-2011 09:39:29	Bright	51.000	68	18Alp Cas	2.2250	4500.0	102	48599	No
103	GOM_TRA_1PNPDK20110616_094443_000000403103_00309_48599_5424.N1	16-JUN-2011 09:44:43	Bright	39.500	73	57Gam1And	2.2600	13100.	79	48599	No
104	GOM_TRA_1PNPDK20110616_094703_000000543103_00309_48599_5425.N1	16-JUN-2011 09:47:03	Twi_and_stray	54.000	53	43Bet And	2.0480	3300.0	108	48599	No
105	GOM_TRA_1PNPDK20110616_095036_000000513103_00309_48599_5426.N1	16-JUN-2011 09:50:36	Twilight	51.000	50	13Alp Ari	2.0070	4250.0	102	48599	No
106	GOM_TRA_1PNPDK20110616_100630_000000543103_00309_48599_5427.N1	16-JUN-2011 10:06:30	Dark	54.000	52	16Bet Cet	2.0370	4500.0	108	48599	No
107	GOM_TRA_1PNPDK20110616_101237_000000483103_00309_48599_5428.N1	16-JUN-2011 10:12:37	Dark	47.500	84	Alp Phe	2.3970	4500.0	95	48599	No
108	GOM_TRA_1PNPDK20110616_101852_000000543103_00310_48600_5429.N1	16-JUN-2011 10:18:52	Dark	54.000	63	Bet Gru	2.1500	2800.0	108	48600	No
109	GOM_TRA_1PNPDK20110616_102055_000000493103_00310_48600_5430.N1	16-JUN-2011 10:20:55	Dark	48.500	31	Alp Gru	1.7340	15200.	97	48600	No
110	GOM_TRA_1PNPDK20110616_102255_000000443103_00310_48600_5431.N1	16-JUN-2011 10:22:55	Straylight	44.000	172	Gam Gru	3.0030	13100.	88	48600	No
111	GOM_TRA_1PNPDK20110616_102438_000000503103_00310_48600_5432.N1	16-JUN-2011 10:24:38	Straylight	50.000	45	Alp Pav	1.9400	26000.	100	48600	No
112	GOM_TRA_1PNPDK20110616_103411_000000503103_00310_48600_5433.N1	16-JUN-2011 10:34:11	Twi_and_stray	49.500	38	20Eps Sgr	1.8360	11000.	99	48600	No
113	GOM_TRA_1PNPDK20110616_103539_000000523103_00310_48600_5434.N1	16-JUN-2011 10:35:39	Twi_and_stray	51.500	116	19Del Sgr	2.7000	4100.0	103	48600	No
114	GOM_TRA_1PNPDK20110616_104053_000000373103_00310_48600_5435.N1	16-JUN-2011 10:40:53	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	48600	No
115	GOM_TRA_1PNPDK20110616_104718_000000423103_00310_48600_5433.N1	16-JUN-2011 10:47:18	Bright	42.000	126	60Bet Oph	2.7700	4250.0	84	48600	No
116	GOM_TRA_1PNPDK20110616_104947_000000423103_00310_48600_5434.N1	16-JUN-2011 10:49:47	Bright	41.500	59	55Alp Oph	2.0800	8900.0	83	48600	No
117	GOM_TRA_1PNPDK20110616_105150_000000373103_00310_48600_5435.N1	16-JUN-2011 10:51:50	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	48600	No
118	GOM_TRA_1PNPDK20110616_105450_000000383103_00310_48600_5436.N1	16-JUN-2011 10:54:50	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	48600	No
119	GOM_TRA_1PNPDK20110616_110132_000000423103_00310_48600_5437.N1	16-JUN-2011 11:01:32	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	48600	No
120	GOM_TRA_1PNPDK20110616_111147_000000493103_00310_48600_5438.N1	16-JUN-2011 11:11:47	Bright	49.000	89	5Alp Cep	2.4510	8000.0	98	48600	No
121	GOM_TRA_1PNPDK20110616_111818_000000443103_00310_48600_5439.N1	16-JUN-2011 11:18:18	Bright	44.000	74	11Bet Cas	2.2680	6600.0	88	48600	No
122	GOM_TRA_1PNPDK20110616_111943_000000473103_00310_48600_5440.N1	16-JUN-2011 11:19:43	Bright	47.000	68	18Alp Cas	2.2250	4500.0	94	48600	No
123	GOM_TRA_1PNPDK20110616_112457_000000403103_00310_48600_5441.N1	16-JUN-2011 11:24:57	Bright	39.500	73	57Gam1And	2.2600	13100.	79	48600	No
124	GOM_TRA_1PNPDK20110616_112717_000000563103_00310_48600_5442.N1	16-JUN-2011 11:27:17	Twi_and_stray	56.000	53	43Bet And	2.0480	3300.0	112	48600	No
125	GOM_TRA_1PNPDK20110616_113050_000000483103_00310_48600_5443.N1	16-JUN-2011 11:30:50	Twilight	48.000	50	13Alp Ari	2.0070	4250.0	96	48600	No
126	GOM_TRA_1PNPDK20110616_114645_000000563103_00310_48600_5444.N1	16-JUN-2011 11:46:45	Dark	56.000	52	16Bet Cet	2.0370	4500.0	112	48600	No
127	GOM_TRA_1PNPDK20110616_115252_000000533103_00310_48600_5445.N1	16-JUN-2011 11:52:52	Dark	53.000	84	Alp Phe	2.3970	4500.0	106	48600	No
128	GOM_TRA_1PNPDK20110616_115907_000000513103_00311_48601_5446.N1	16-JUN-2011 11:59:07	Dark	50.500	63	Bet Gru	2.1500	2800.0	101	48601	No
129	GOM_TRA_1PNPDK20110616_120110_000000503103_00311_48601_5447.N1	16-JUN-2011 12:01:10	Dark	49.500	31	Alp Gru	1.7340	15200.	99	48601	No
130	GOM_TRA_1PNPDK20110616_120310_000000443103_00311_48601_5448.N1	16-JUN-2011 12:03:10	Straylight	44.000	172	Gam Gru	3.0030	13100.	88	48601	No
131	GOM_TRA_1PNPDK20110616_120452_000000453103_00311_48601_5449.N1	16-JUN-2011 12:04:52	Straylight	44.500	45	Alp Pav	1.9400	26000.	89	48601	No
132	GOM_TRA_1PNPDK20110616_121425_000000483103_00311_48601_5450.N1	16-JUN-2011 12:14:25	Twi_and_stray	47.500	38	20Eps Sgr	1.8360	11000.	95	48601	No
133	GOM_TRA_1PNPDK20110616_121554_000000503103_00311_48601_5451.N1	16-JUN-2011 12:15:54	Twi_and_stray	49.500	116	19Del Sgr	2.7000	4100.0	99	48601	No
134	GOM_TRA_1PNPDK20110616_122107_000000383103_00311_48601_5478.N1	16-JUN-2011 12:21:07	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	48601	No
135	GOM_TRA_1PNPDK20110616_122732_000000433103_00311_48601_5479.N1	16-JUN-2011 12:27:32	Bright	43.000	126	60Bet Oph	2.7700	4250.0	86	48601	No
136	GOM_TRA_1PNPDK20110616_123001_000000443103_00311_48601_5480.N1	16-JUN-2011 12:30:01	Bright	43.500	59	55Alp Oph	2.0800	8900.0	87	48601	No
137	GOM_TRA_1PNPDK20110616_123204_000000363103_00311_48601_5481.N1	16-JUN-2011 12:32:04	Bright	35.500	127	27Bet Her	2.7810	4700.0	71	48601	No
138	GOM_TRA_1PNPDK20110616_123503_000000393103_00311_48601_5482.N1	16-JUN-2011 12:35:03	Bright	38.500	133	40Zet Her	2.8070	6000.0	77	48601	No
139	GOM_TRA_1PNPDK20110616_124146_000000433103_00311_48601_5483.N1	16-JUN-2011 12:41:46	Bright	42.500	130	23Bet Dra	2.7990	5800.0	85	48601	No
140	GOM_TRA_1PNPDK20110616_125201_000000483103_00311_48601_5484.N1	16-JUN-2011 12:52:01	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	48601	No
141	GOM_TRA_1PNPDK20110616_125832_000000443103_00311_48601_5485.N1	16-JUN-2011 12:58:32	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	48601	No
142	GOM_TRA_1PNPDK20110616_125957_000000463103_00311_48601_5486.N1	16-JUN-2011 12:59:57	Bright	45.500	68	18Alp Cas	2.2250	4500.0	91	48601	No
143	GOM_TRA_1PNPDK20110616_130511_000000413103_00311_48601_5487.N1	16-JUN-2011 13:05:11	Bright	41.000	73	57Gam1And	2.2600	13100.	82	48601	No
144	GOM_TRA_1PNPDK20110616_130731_000000613103_00311_48601_5488.N1	16-JUN-2011 13:07:31	Twi_and_stray	60.500	53	43Bet And	2.0480	3300.0	121	48601	No
145	GOM_TRA_1PNPDK20110616_131104_000000493103_00311_48601_5489.N1	16-JUN-2011 13:11:04	Twilight	49.000	50	13Alp Ari	2.0070	4250.0	98	48601	No
146	GOM_TRA_1PNPDK20110616_132700_000000573103_00311_48601_5490.N1	16-JUN-2011 13:27:00	Dark	56.500	52	16Bet Cet	2.0370	4500.0	113	48601	No
147	GOM_TRA_1PNPDK20110616_133307_000000473103_00311_48601_5491.N1	16-JUN-2011 13:33:07	Dark	46.500	84	Alp Phe	2.3970	4500.0	93	48601	No
148	GOM_TRA_1PNPDK20110616_133922_000000523103_00312_48602_5492.N1	16-JUN-2011 13:39:22	Dark	51.500	63	Bet Gru	2.1500	2800.0	103	48602	No
149	GOM_TRA_1PNPDK20110616_134125_000000483103_00312_48602_5493.N1	16-JUN-2011 13:41:25	Dark	48.000	31	Alp Gru	1.7340	15200.	96	48602	No
150	GOM_TRA_1PNPDK20110616_134326_000000443103_00312_48602_5494.N1	16-JUN-2011 13:43:26	Straylight	44.000	172	Gam Gru	3.0030	13100.	88	48602	No
151	GOM_TRA_1PNPDK20110616_134507_000000423103_00312_48602_5495.N1	16-JUN-2011 13:45:07	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	48602	No
152	GOM_TRA_1PNPDK20110616_135439_000000493103_00312_48602_5496.N1	16-JUN-2011 13:54:39	Twi_and_stray	49.000	38	20Eps Sgr	1.8360	11000.	98	48602	No
153	GOM_TRA_1PNPDK20110616_135608_000000513103_00312_48602_5497.N1	16-JUN-2011 13:56:08	Twi_and_stray	50.500	116	19Del Sgr	2.7000	4100.0	101	48602	No
154	GOM_TRA_1PNPDK20110616_140121_000000403103_00312_48602_5516.N1	16-JUN-2011 14:01:21	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	48602	No
155	GOM_TRA_1PNPDK20110616_140746_000000443103_00312_48602_5517.N1	16-JUN-2011 14:07:46	Bright	44.000	126	60Bet Oph	2.7700	4250.0	88	48602	No
156	GOM_TRA_1PNPDK20110616_141015_000000433103_00312_48602_5518.N1	16-JUN-2011 14:10:15	Bright	43.000	59	55Alp Oph	2.0800	8900.0	86	48602	No

157	GOM_TRA_1PNPDK20110616_141218_000000393103_00312_48602_5519.N1	16-JUN-2011 14:12:18	Bright	39.000	127	27Bet Her	2.7810	4700.0	78	48602	No
158	GOM_TRA_1PNPDK20110616_141517_000000373103_00312_48602_5520.N1	16-JUN-2011 14:15:17	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	48602	No
159	GOM_TRA_1PNPDK20110616_142200_000000423103_00312_48602_5521.N1	16-JUN-2011 14:22:00	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	48602	No
160	GOM_TRA_1PNPDK20110616_143214_000000483103_00312_48602_5522.N1	16-JUN-2011 14:32:14	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	48602	No
161	GOM_TRA_1PNPDK20110616_143846_000000433103_00312_48602_5523.N1	16-JUN-2011 14:38:46	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	48602	No
162	GOM_TRA_1PNPDK20110616_144010_000000433103_00312_48602_5524.N1	16-JUN-2011 14:40:10	Bright	42.500	68	18Alp Cas	2.2250	4500.0	85	48602	No
163	GOM_TRA_1PNPDK20110616_144525_000000423103_00312_48602_5525.N1	16-JUN-2011 14:45:25	Bright	42.000	73	57Gam1And	2.2600	13100.	84	48602	No
164	GOM_TRA_1PNPDK20110616_144745_000000543103_00312_48602_5526.N1	16-JUN-2011 14:47:45	Twi_and_stray	54.000	53	43Bet And	2.0480	3300.0	108	48602	No
165	GOM_TRA_1PNPDK20110616_145119_000000473103_00312_48602_5527.N1	16-JUN-2011 14:51:19	Twilight	47.000	50	13Alp Ari	2.0070	4250.0	94	48602	No
166	GOM_TRA_1PNPDK20110616_150715_000000603103_00312_48602_5528.N1	16-JUN-2011 15:07:15	Dark	60.000	52	16Bet Cet	2.0370	4500.0	120	48602	No
167	GOM_TRA_1PNPDK20110616_151322_000000453103_00312_48602_5529.N1	16-JUN-2011 15:13:22	Dark	44.500	84	Alp Phe	2.3970	4500.0	89	48602	No
168	GOM_TRA_1PNPDK20110616_151937_000000503103_00313_48603_5530.N1	16-JUN-2011 15:19:37	Dark	50.000	63	Bet Gru	2.1500	2800.0	100	48603	No
169	GOM_TRA_1PNPDK20110616_152140_000000503103_00313_48603_5531.N1	16-JUN-2011 15:21:40	Dark	49.500	31	Alp Gru	1.7340	15200.	99	48603	No
170	GOM_TRA_1PNPDK20110616_152341_000000443103_00313_48603_5532.N1	16-JUN-2011 15:23:41	Straylight	44.000	172	Gam Gru	3.0030	13100.	88	48603	No
171	GOM_TRA_1PNPDK20110616_152522_000000413103_00313_48603_5533.N1	16-JUN-2011 15:25:22	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	48603	No
172	GOM_TRA_1PNPDK20110616_153454_000000473103_00313_48603_5534.N1	16-JUN-2011 15:34:54	Twi_and_stray	47.000	38	20Eps Sgr	1.8360	11000.	94	48603	No
173	GOM_TRA_1PNPDK20110616_153622_000000493103_00313_48603_5535.N1	16-JUN-2011 15:36:22	Twi_and_stray	49.000	116	19Del Sgr	2.7000	4100.0	98	48603	No
174	GOM_TRA_1PNPDK20110616_154135_000000403103_00313_48603_5560.N1	16-JUN-2011 15:41:35	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	48603	No
175	GOM_TRA_1PNPDK20110616_154759_000000433103_00313_48603_5561.N1	16-JUN-2011 15:47:59	Bright	42.500	126	60Bet Oph	2.7700	4250.0	85	48603	No
176	GOM_TRA_1PNPDK20110616_155028_000000423103_00313_48603_5562.N1	16-JUN-2011 15:50:28	Bright	41.500	59	55Alp Oph	2.0800	8900.0	83	48603	No
177	GOM_TRA_1PNPDK20110616_155237_000000333103_00313_48603_5563.N1	16-JUN-2011 15:52:37	Bright	32.500	127	27Bet Her	2.7810	4700.0	65	48603	No
178	GOM_TRA_1PNPDK20110616_155531_000000403103_00313_48603_5564.N1	16-JUN-2011 15:55:31	Bright	39.500	133	40Zet Her	2.8070	6000.0	79	48603	No
179	GOM_TRA_1PNPDK20110616_160213_000000423103_00313_48603_5565.N1	16-JUN-2011 16:02:13	Bright	42.000	130	23Bet Dra	2.7990	5800.0	84	48603	No
180	GOM_TRA_1PNPDK20110616_161227_000000483103_00313_48603_5566.N1	16-JUN-2011 16:12:27	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	48603	No
181	GOM_TRA_1PNPDK20110616_161859_000000533103_00313_48603_5567.N1	16-JUN-2011 16:18:59	Bright	53.000	74	11Bet Cas	2.2680	6600.0	106	48603	No
182	GOM_TRA_1PNPDK20110616_162024_000000453103_00313_48603_5568.N1	16-JUN-2011 16:20:24	Bright	45.000	68	18Alp Cas	2.2250	4500.0	90	48603	No
183	GOM_TRA_1PNPDK20110616_162539_000000483103_00313_48603_5569.N1	16-JUN-2011 16:25:39	Bright	47.500	73	57Gam1And	2.2600	13100.	95	48603	No
184	GOM_TRA_1PNPDK20110616_162759_000000563103_00313_48603_5570.N1	16-JUN-2011 16:27:59	Twi_and_stray	55.500	53	43Bet And	2.0480	3300.0	111	48603	No
185	GOM_TRA_1PNPDK20110616_163133_000000483103_00313_48603_5571.N1	16-JUN-2011 16:31:33	Twilight	47.500	50	13Alp Ari	2.0070	4250.0	95	48603	No
186	GOM_TRA_1PNPDK20110616_164730_000000583103_00313_48603_5572.N1	16-JUN-2011 16:47:30	Dark	58.000	52	16Bet Cet	2.0370	4500.0	116	48603	No
187	GOM_TRA_1PNPDK20110616_165336_000000473103_00313_48603_5573.N1	16-JUN-2011 16:53:36	Dark	46.500	84	Alp Phe	2.3970	4500.0	93	48603	No
188	GOM_TRA_1PNPDK20110616_165952_000000623103_00314_48604_5574.N1	16-JUN-2011 16:59:52	Dark	62.000	63	Bet Gru	2.1500	2800.0	124	48604	No
189	GOM_TRA_1PNPDK20110616_170155_000000493103_00314_48604_5575.N1	16-JUN-2011 17:01:55	Dark	48.500	31	Alp Gru	1.7340	15200.	97	48604	No
190	GOM_TRA_1PNPDK20110616_170356_000000433103_00314_48604_5576.N1	16-JUN-2011 17:03:56	Straylight	43.000	172	Gam Gru	3.0030	13100.	86	48604	No
191	GOM_TRA_1PNPDK20110616_170536_000000433103_00314_48604_5577.N1	16-JUN-2011 17:05:36	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	48604	No
192	GOM_TRA_1PNPDK20110616_171508_000000473103_00314_48604_5603.N1	16-JUN-2011 17:15:08	Twi_and_stray	47.000	38	20Eps Sgr	1.8360	11000.	94	48604	No
193	GOM_TRA_1PNPDK20110616_171636_000000513103_00314_48604_5604.N1	16-JUN-2011 17:16:36	Twi_and_stray	51.000	116	19Del Sgr	2.7000	4100.0	102	48604	No
194	GOM_TRA_1PNPDK20110616_172149_000000403103_00314_48604_5605.N1	16-JUN-2011 17:21:49	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	48604	No
195	GOM_TRA_1PNPDK20110616_172814_000000433103_00314_48604_5606.N1	16-JUN-2011 17:28:14	Bright	42.500	126	60Bet Oph	2.7700	4250.0	85	48604	No
196	GOM_TRA_1PNPDK20110616_173042_000000433103_00314_48604_5607.N1	16-JUN-2011 17:30:42	Bright	43.000	59	55Alp Oph	2.0800	8900.0	86	48604	No
197	GOM_TRA_1PNPDK20110616_173545_000000363103_00314_48604_5608.N1	16-JUN-2011 17:35:45	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	48604	No
198	GOM_TRA_1PNPDK20110616_174108_000000303103_00314_48604_5609.N1	16-JUN-2011 17:41:08	Twi_and_stray	30.000	5	3Alp Lyr	0.033000	11000.	60	48604	No
199	GOM_TRA_1PNPDK20110616_174227_000000583103_00314_48604_5610.N1	16-JUN-2011 17:42:27	Bright	58.000	130	23Bet Dra	2.7990	5800.0	116	48604	No
200	GOM_TRA_1PNPDK20110616_175241_000000493103_00314_48604_5611.N1	16-JUN-2011 17:52:41	Bright	49.000	89	5Alp Cep	2.4510	8000.0	98	48604	No
201	GOM_TRA_1PNPDK20110616_175913_000000653103_00314_48604_5612.N1	16-JUN-2011 17:59:13	Bright	65.000	74	11Bet Cas	2.2680	6600.0	130	48604	No
202	GOM_TRA_1PNPDK20110616_180038_000000643103_00314_48604_5613.N1	16-JUN-2011 18:00:38	Bright	64.000	68	18Alp Cas	2.2250	4500.0	128	48604	No
203	GOM_TRA_1PNPDK20110616_180553_000000413103_00314_48604_5614.N1	16-JUN-2011 18:05:53	Bright	41.000	73	57Gam1And	2.2600	13100.	82	48604	No
204	GOM_TRA_1PNPDK20110616_180813_000000593103_00314_48604_5615.N1	16-JUN-2011 18:08:13	Twi_and_stray	58.500	53	43Bet And	2.0480	3300.0	117	48604	No
205	GOM_TRA_1PNPDK20110616_181147_000000523103_00314_48604_5616.N1	16-JUN-2011 18:11:47	Twilight	51.500	50	13Alp Ari	2.0070	4250.0	103	48604	No
206	GOM_TRA_1PNPDK20110616_182745_000000593103_00314_48604_5617.N1	16-JUN-2011 18:27:45	Dark	59.000	52	16Bet Cet	2.0370	4500.0	118	48604	No
207	GOM_TRA_1PNPDK20110616_183351_000000513103_00314_48604_5618.N1	16-JUN-2011 18:33:51	Dark	50.500	84	Alp Phe	2.3970	4500.0	101	48604	No
208	GOM_TRA_1PNPDK20110616_184007_000000613103_00315_48605_5619.N1	16-JUN-2011 18:40:07	Dark	60.500	63	Bet Gru	2.1500	2800.0	121	48605	No
209	GOM_TRA_1PNPDK20110616_184210_000000473103_00315_48605_5620.N1	16-JUN-2011 18:42:10	Dark	47.000	31	Alp Gru	1.7340	15200.	94	48605	No
210	GOM_TRA_1PNPDK20110616_184412_000000433103_00315_48605_5621.N1	16-JUN-2011 18:44:12	Straylight	43.000	172	Gam Gru	3.0030	13100.	86	48605	No
211	GOM_TRA_1PNPDK20110616_184551_000000413103_00315_48605_5622.N1	16-JUN-2011 18:45:51	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	48605	No
212	GOM_TRA_1PNPDK20110616_185522_000000493103_00315_48605_5617.N1	16-JUN-2011 18:55:22	Twi_and_stray	48.500	38	20Eps Sgr	1.8360	11000.	97	48605	No
213	GOM_TRA_1PNPDK20110616_185651_000000523103_00315_48605_5618.N1	16-JUN-2011 18:56:51	Twi_and_stray	51.500	116	19Del Sgr	2.7000	4100.0	103	48605	No
214	GOM_TRA_1PNPDK20110616_190204_000000403103_00315_48605_5619.N1	16-JUN-2011 19:02:04	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	48605	No
215	GOM_TRA_1PNPDK20110616_190827_000000433103_00315_48605_5620.N1	16-JUN-2011 19:08:27	Bright	42.500	126	60Bet Oph	2.7700	4250.0	85	48605	No

216	GOM_TRA_1PNPDK20110616_191056_000000443103_00315_48605_5621.N1	16-JUN-2011 19:10:56	Bright	43.500	59	55Alp Oph	2.0800	8900.0	87	48605	No
217	GOM_TRA_1PNPDK20110616_191559_000000383103_00315_48605_5622.N1	16-JUN-2011 19:15:59	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	48605	No
218	GOM_TRA_1PNPDK20110616_192121_000000303103_00315_48605_5623.N1	16-JUN-2011 19:21:21	Twi_and_stray	30.000	5	3Alp Lyr	0.033000	11000.	60	48605	No
219	GOM_TRA_1PNPDK20110616_192241_000000433103_00315_48605_5624.N1	16-JUN-2011 19:22:41	Bright	43.000	130	23Bet Dra	2.7990	5800.0	86	48605	No
220	GOM_TRA_1PNPDK20110616_193254_000000493103_00315_48605_5625.N1	16-JUN-2011 19:32:54	Bright	48.500	89	5Alp Cep	2.4510	8000.0	97	48605	No
221	GOM_TRA_1PNPDK20110616_193927_000000453103_00315_48605_5626.N1	16-JUN-2011 19:39:27	Bright	45.000	74	11Bet Cas	2.2680	6600.0	90	48605	No
222	GOM_TRA_1PNPDK20110616_194051_000000453103_00315_48605_5627.N1	16-JUN-2011 19:40:51	Bright	44.500	68	18Alp Cas	2.2250	4500.0	89	48605	No
223	GOM_TRA_1PNPDK20110616_194607_000000423103_00315_48605_5628.N1	16-JUN-2011 19:46:07	Bright	41.500	73	57Gam1And	2.2600	13100.	83	48605	No
224	GOM_TRA_1PNPDK20110616_194827_000000543103_00315_48605_5629.N1	16-JUN-2011 19:48:27	Twi_and_stray	54.000	53	43Bet And	2.0480	3300.0	108	48605	No
225	GOM_TRA_1PNPDK20110616_195201_000000493103_00315_48605_5630.N1	16-JUN-2011 19:52:01	Twilight	49.000	50	13Alp Ari	2.0070	4250.0	98	48605	No
226	GOM_TRA_1PNPDK20110616_200800_000000583103_00315_48605_5631.N1	16-JUN-2011 20:08:00	Dark	58.000	52	16Bet Cet	2.0370	4500.0	116	48605	No
227	GOM_TRA_1PNPDK20110616_201406_000000523103_00315_48605_5632.N1	16-JUN-2011 20:14:06	Dark	51.500	84	Alp Phe	2.3970	4500.0	103	48605	No
228	GOM_TRA_1PNPDK20110616_202022_000000643103_00316_48606_5633.N1	16-JUN-2011 20:20:22	Dark	63.500	63	Bet Gru	2.1500	2800.0	127	48606	No
229	GOM_TRA_1PNPDK20110616_202225_000000483103_00316_48606_5634.N1	16-JUN-2011 20:22:25	Straylight	48.000	31	Alp Gru	1.7340	15200.	96	48606	No
230	GOM_TRA_1PNPDK20110616_202427_000000423103_00316_48606_5635.N1	16-JUN-2011 20:24:27	Straylight	42.000	172	Gam Gru	3.0030	13100.	84	48606	No
231	GOM_TRA_1PNPDK20110616_202605_000000403103_00316_48606_5636.N1	16-JUN-2011 20:26:05	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	48606	No
232	GOM_TRA_1PNPDE20110616_203537_000000493103_00316_48606_6093.N1	16-JUN-2011 20:35:37	Twi_and_stray	49.000	38	20Eps Sgr	1.8360	11000.	98	48606	No
233	GOM_TRA_1PNPDE20110616_203705_000000503103_00316_48606_6094.N1	16-JUN-2011 20:37:05	Twi_and_stray	50.000	116	19Del Sgr	2.7000	4100.0	100	48606	No
234	GOM_TRA_1PNPDE20110616_204218_000000403103_00316_48606_6095.N1	16-JUN-2011 20:42:18	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	48606	No
235	GOM_TRA_1PNPDE20110616_204841_000000433103_00316_48606_6096.N1	16-JUN-2011 20:48:41	Bright	42.500	126	60Bet Oph	2.7700	4250.0	85	48606	No
236	GOM_TRA_1PNPDE20110616_205110_000000433103_00316_48606_6097.N1	16-JUN-2011 20:51:10	Bright	42.500	59	55Alp Oph	2.0800	8900.0	85	48606	No
237	GOM_TRA_1PNPDE20110616_205613_000000373103_00316_48606_6098.N1	16-JUN-2011 20:56:13	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	48606	No
238	GOM_TRA_1PNPDE20110616_210134_000000353103_00316_48606_6099.N1	16-JUN-2011 21:01:34	Twi_and_stray	35.000	5	3Alp Lyr	0.033000	11000.	70	48606	No
239	GOM_TRA_1PNPDE20110616_210254_000000413103_00316_48606_6100.N1	16-JUN-2011 21:02:54	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	48606	No
240	GOM_TRA_1PNPDE20110616_211308_000000483103_00316_48606_6101.N1	16-JUN-2011 21:13:08	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	48606	No
241	GOM_TRA_1PNPDE20110616_211940_000000443103_00316_48606_6102.N1	16-JUN-2011 21:19:40	Bright	44.000	74	11Bet Cas	2.2680	6600.0	88	48606	No
242	GOM_TRA_1PNPDE20110616_212105_000000443103_00316_48606_6103.N1	16-JUN-2011 21:21:05	Bright	43.500	68	18Alp Cas	2.2250	4500.0	87	48606	No
243	GOM_TRA_1PNPDE20110616_212621_000000403103_00316_48606_6104.N1	16-JUN-2011 21:26:21	Bright	40.000	73	57Gam1And	2.2600	13100.	80	48606	No
244	GOM_TRA_1PNPDE20110616_212841_000000603103_00316_48606_6105.N1	16-JUN-2011 21:28:41	Twi_and_stray	59.500	53	43Bet And	2.0480	3300.0	119	48606	No
245	GOM_TRA_1PNPDE20110616_213215_000000493103_00316_48606_6106.N1	16-JUN-2011 21:32:15	Twilight	48.500	50	13Alp Ari	2.0070	4250.0	97	48606	No
246	GOM_TRA_1PNPDE20110616_214815_000000583103_00316_48606_6109.N1	16-JUN-2011 21:48:15	Dark	58.000	52	16Bet Cet	2.0370	4500.0	116	48606	No
247	GOM_TRA_1PNPDE20110616_215421_000000523103_00316_48606_6110.N1	16-JUN-2011 21:54:21	Dark	51.500	84	Alp Phe	2.3970	4500.0	103	48606	No
248	GOM_TRA_1PNPDE20110616_220037_000000493103_00317_48607_6111.N1	16-JUN-2011 22:00:37	Dark	48.500	63	Bet Gru	2.1500	2800.0	97	48607	No
249	GOM_TRA_1PNPDE20110616_220240_000000503103_00317_48607_6112.N1	16-JUN-2011 22:02:40	Straylight	50.000	31	Alp Gru	1.7340	15200.	100	48607	No
250	GOM_TRA_1PNPDE20110616_220442_000000423103_00317_48607_6113.N1	16-JUN-2011 22:04:42	Straylight	42.000	172	Gam Gru	3.0030	13100.	84	48607	No
251	GOM_TRA_1PNPDE20110616_220620_000000413103_00317_48607_6114.N1	16-JUN-2011 22:06:20	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	48607	No
252	GOM_TRA_1PNPDE20110616_221551_000000463103_00317_48607_6115.N1	16-JUN-2011 22:15:51	Twi_and_stray	45.500	38	20Eps Sgr	1.8360	11000.	91	48607	No
253	GOM_TRA_1PNPDE20110616_221719_000000493103_00317_48607_6116.N1	16-JUN-2011 22:17:19	Twi_and_stray	48.500	116	19Del Sgr	2.7000	4100.0	97	48607	No
254	GOM_TRA_1PNPDE20110616_222232_000000403103_00317_48607_6117.N1	16-JUN-2011 22:22:32	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	48607	No
255	GOM_TRA_1PNPDE20110616_222855_000000433103_00317_48607_6118.N1	16-JUN-2011 22:28:55	Bright	42.500	126	60Bet Oph	2.7700	4250.0	85	48607	No
256	GOM_TRA_1PNPDE20110616_223123_000000443103_00317_48607_6119.N1	16-JUN-2011 22:31:23	Bright	44.000	59	55Alp Oph	2.0800	8900.0	88	48607	No
257	GOM_TRA_1PNPDE20110616_223627_000000373103_00317_48607_6120.N1	16-JUN-2011 22:36:27	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	48607	No
258	GOM_TRA_1PNPDE20110616_224147_000000353103_00317_48607_6121.N1	16-JUN-2011 22:41:47	Twi_and_stray	35.000	5	3Alp Lyr	0.033000	11000.	70	48607	No
259	GOM_TRA_1PNPDE20110616_224308_000000403103_00317_48607_6122.N1	16-JUN-2011 22:43:08	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	48607	No
260	GOM_TRA_1PNPDE20110616_225321_000000473103_00317_48607_6123.N1	16-JUN-2011 22:53:21	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	48607	No
261	GOM_TRA_1PNPDE20110616_225954_000000653103_00317_48607_6124.N1	16-JUN-2011 22:59:54	Bright	65.000	74	11Bet Cas	2.2680	6600.0	130	48607	No
262	GOM_TRA_1PNPDE20110616_230119_000000443103_00317_48607_6125.N1	16-JUN-2011 23:01:19	Bright	44.000	68	18Alp Cas	2.2250	4500.0	88	48607	No
263	GOM_TRA_1PNPDE20110616_230635_000000423103_00317_48607_6126.N1	16-JUN-2011 23:06:35	Bright	41.500	73	57Gam1And	2.2600	13100.	83	48607	No
264	GOM_TRA_1PNPDE20110616_230855_000000583103_00317_48607_6127.N1	16-JUN-2011 23:08:55	Twi_and_stray	57.500	53	43Bet And	2.0480	3300.0	115	48607	No
265	GOM_TRA_1PNPDE20110616_231230_000000473103_00317_48607_6128.N1	16-JUN-2011 23:12:30	Twilight	46.500	50	13Alp Ari	2.0070	4250.0	93	48607	No
266	GOM_TRA_1PNPDE20110616_232830_000000613103_00317_48607_6130.N1	16-JUN-2011 23:28:30	Dark	60.500	52	16Bet Cet	2.0370	4500.0	121	48607	No
267	GOM_TRA_1PNPDE20110616_233436_000000513103_00317_48607_6131.N1	16-JUN-2011 23:34:36	Dark	51.000	84	Alp Phe	2.3970	4500.0	102	48607	No
268	GOM_TRA_1PNPDE20110616_234052_000000603103_00318_48608_6132.N1	16-JUN-2011 23:40:52	Dark	60.000	63	Bet Gru	2.1500	2800.0	120	48608	No
269	GOM_TRA_1PNPDE20110616_234255_000000483103_00318_48608_6133.N1	16-JUN-2011 23:42:55	Straylight	48.000	31	Alp Gru	1.7340	15200.	96	48608	No
270	GOM_TRA_1PNPDE20110616_234457_000000423103_00318_48608_6134.N1	16-JUN-2011 23:44:57	Straylight	42.000	172	Gam Gru	3.0030	13100.	84	48608	No
271	GOM_TRA_1PNPDE20110616_234634_000000423103_00318_48608_6135.N1	16-JUN-2011 23:46:34	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	48608	No
272	GOM_TRA_1PNPDE20110616_235605_000000503103_00318_48608_6136.N1	16-JUN-2011 23:56:05	Twi_and_stray	49.500	38	20Eps Sgr	1.8360	11000.	99	48608	No
273	GOM_TRA_1PNPDE20110616_235734_000000543103_00318_48608_6137.N1	16-JUN-2011 23:57:34	Twi_and_stray	53.500	116	19Del Sgr	2.7000	4100.0	107	48608	No

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



4. Overview of dark signal processing per product

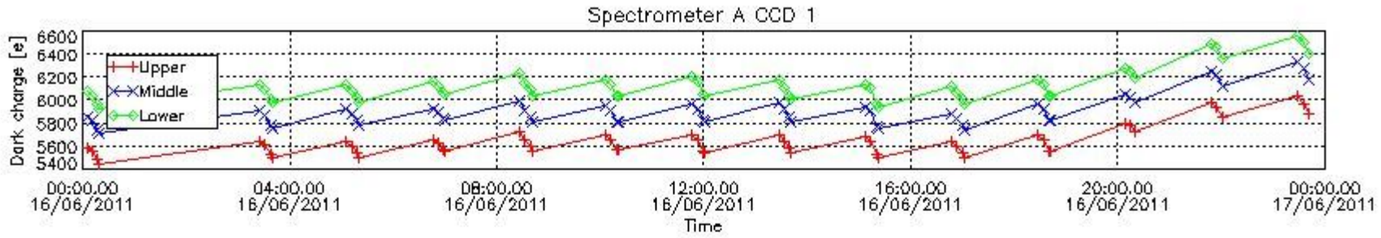
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

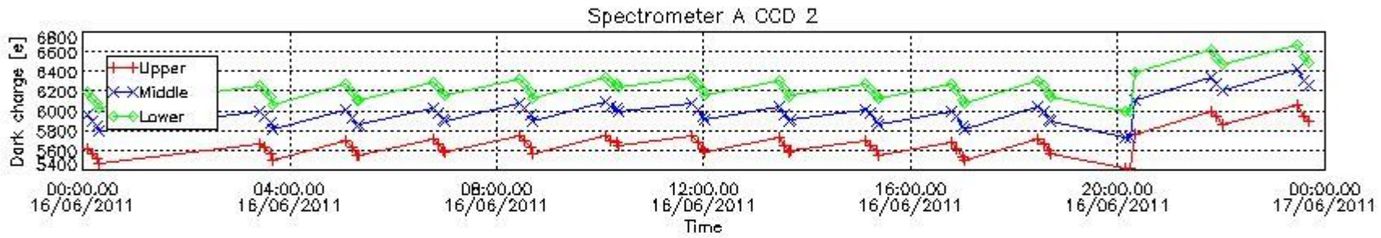
4.1 These products did not use the DSA observation for DC computation:

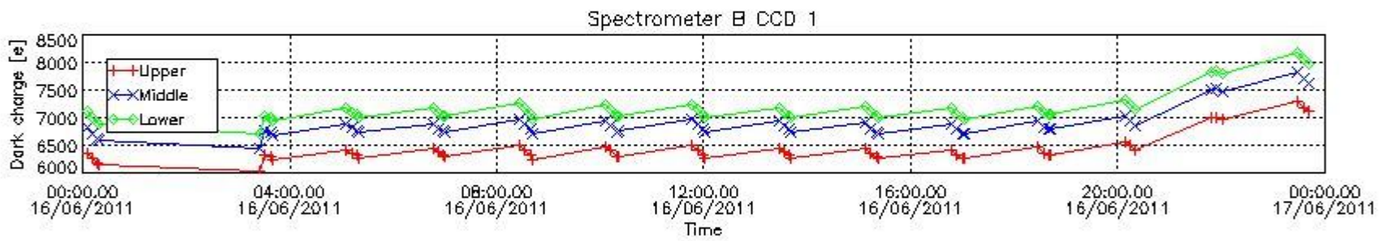
Product name	DC information
GOM_TRA_1PNPDE20110616_203537_000000493103_00316_48606_6093.N1	DC map used
GOM_TRA_1PNPDE20110616_203705_000000503103_00316_48606_6094.N1	DC map used
GOM_TRA_1PNPDE20110616_204218_000000403103_00316_48606_6095.N1	DC map used
GOM_TRA_1PNPDE20110616_204841_000000433103_00316_48606_6096.N1	DC map used
GOM_TRA_1PNPDE20110616_205110_000000433103_00316_48606_6097.N1	DC map used
GOM_TRA_1PNPDE20110616_205613_000000373103_00316_48606_6098.N1	DC map used
GOM_TRA_1PNPDE20110616_210134_000000353103_00316_48606_6099.N1	DC map used
GOM_TRA_1PNPDE20110616_210254_000000413103_00316_48606_6100.N1	DC map used
GOM_TRA_1PNPDE20110616_211308_000000483103_00316_48606_6101.N1	DC map used
GOM_TRA_1PNPDE20110616_211940_000000443103_00316_48606_6102.N1	DC map used
GOM_TRA_1PNPDE20110616_212105_000000443103_00316_48606_6103.N1	DC map used

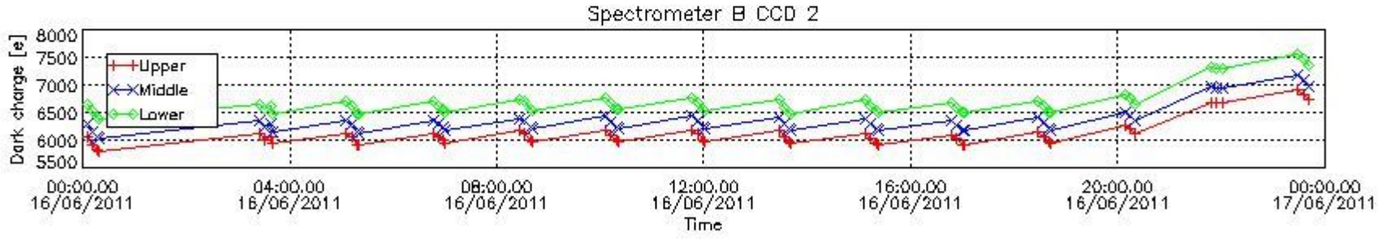
GOM_TRA_1PNPDE20110616_212621_000000403103_00316_48606_6104.N1	DC map used
GOM_TRA_1PNPDE20110616_212841_000000603103_00316_48606_6105.N1	DC map used
GOM_TRA_1PNPDE20110616_213215_000000493103_00316_48606_6106.N1	DC map used

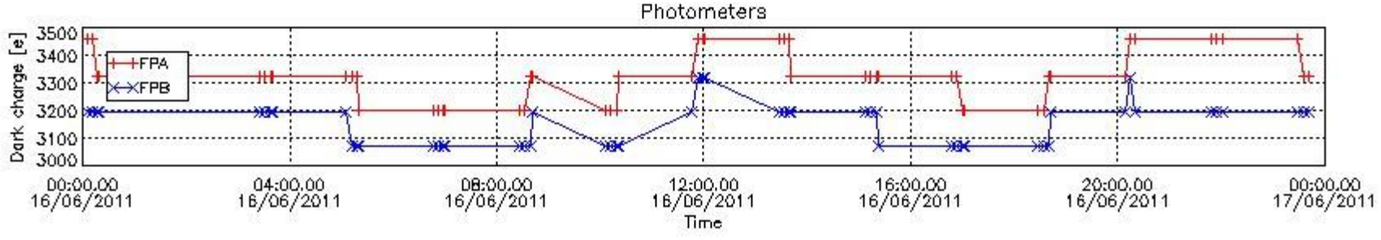
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











5. Demodulation flag and quality information monitoring

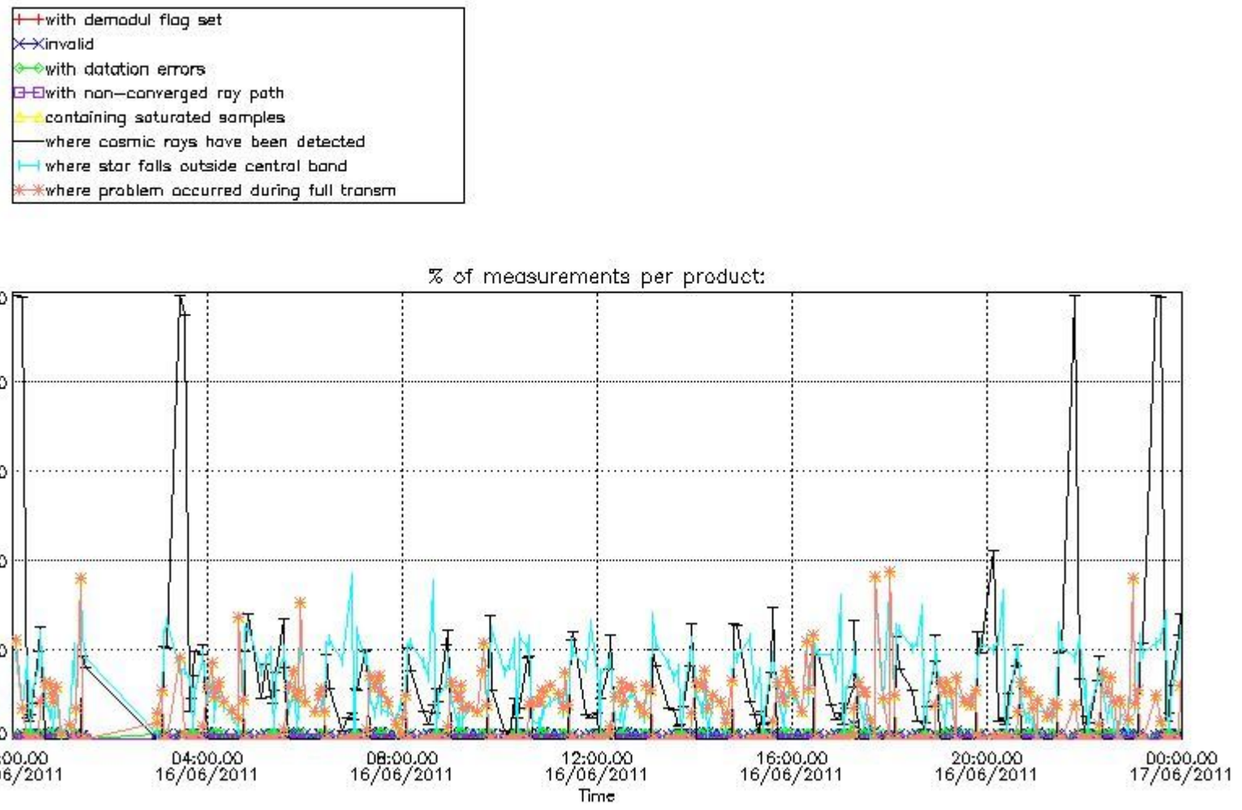
In this section it is presented the modulation information extracted from the pcd (product confidence data)
at measurement level and information extracted from the Quality Summary dataset. Only products without errors

(error flag in the MPH set to "0") are used.

5.1 Percentage of products during reporting period with:

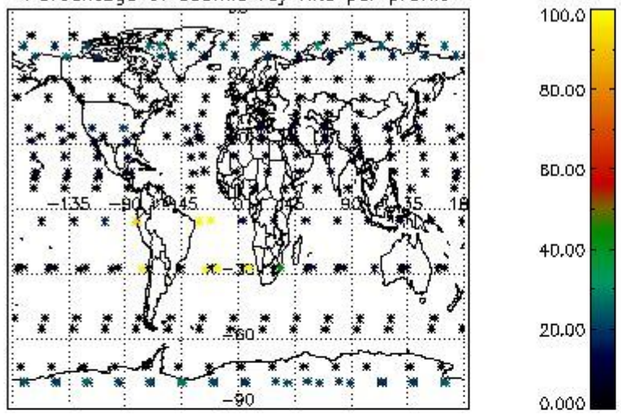
At least one measurement with demodulation flag set:	49.4506 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	47.2527 %

5.2 Plot quality information per product (time dependant)

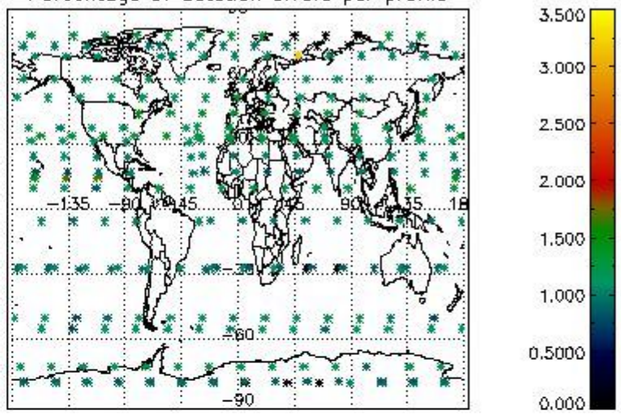


5.3 Plot quality information per product (world map)

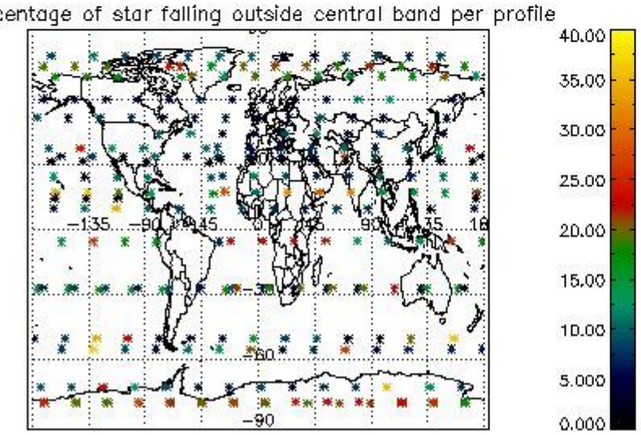
Percentage of cosmic ray hits per profile



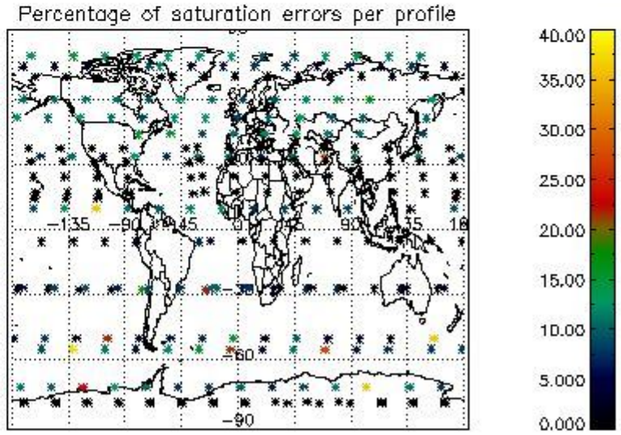
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



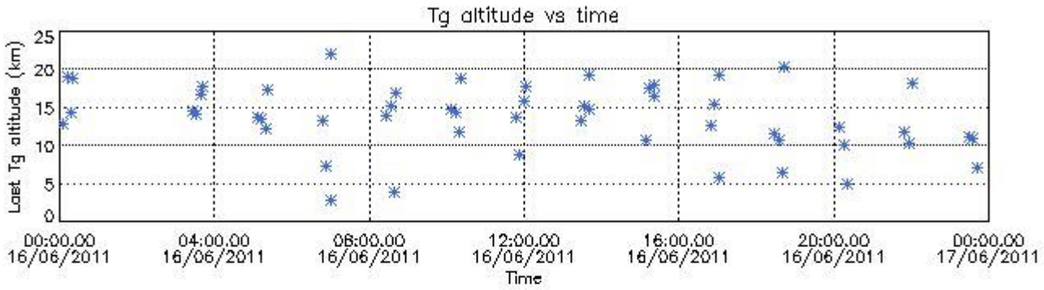
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

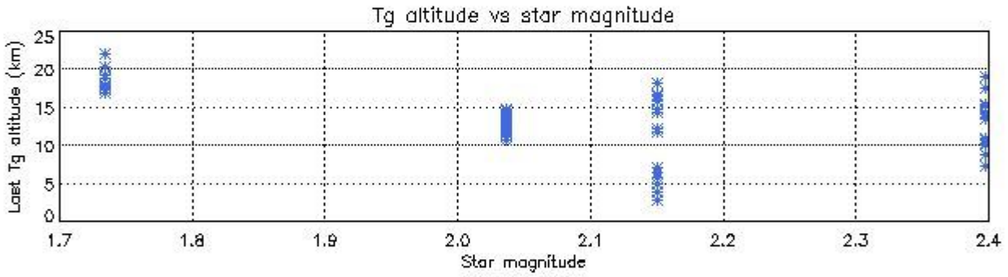
6.1 Statistics on tangent altitude lost:

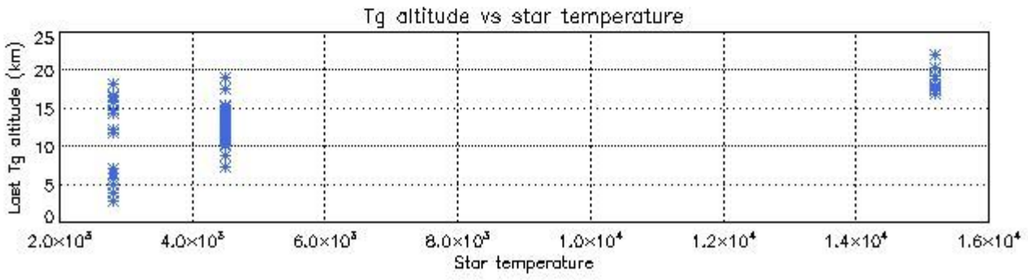
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.575	19.463	10.707
St. deviation:	4.3727	4.3323	1.4083
Maximum:	22.099	28.796	12.646
Minimum:	2.7301	3.1294	8.4615
Number of data:	53.000	129.00	14.000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

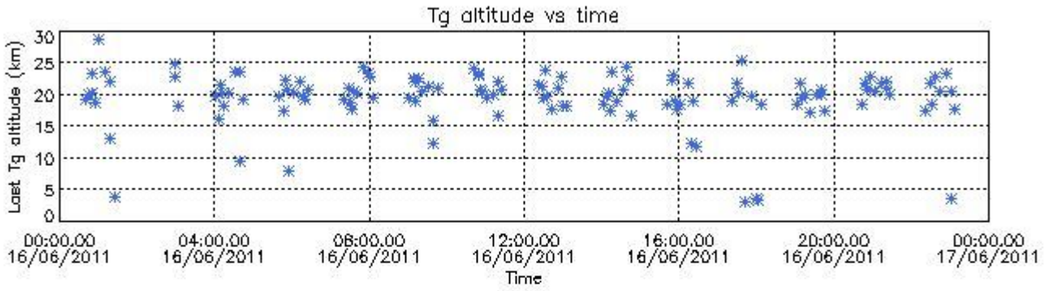


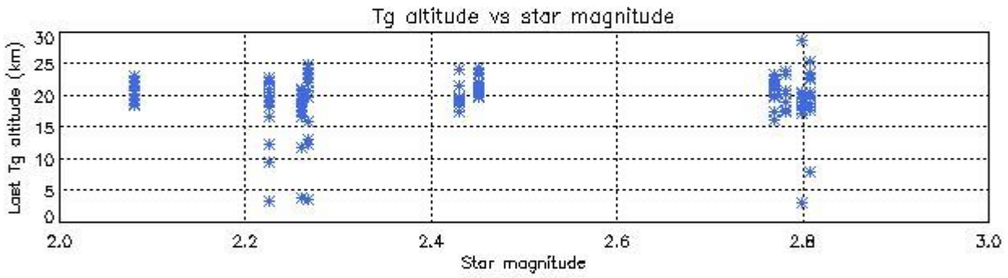


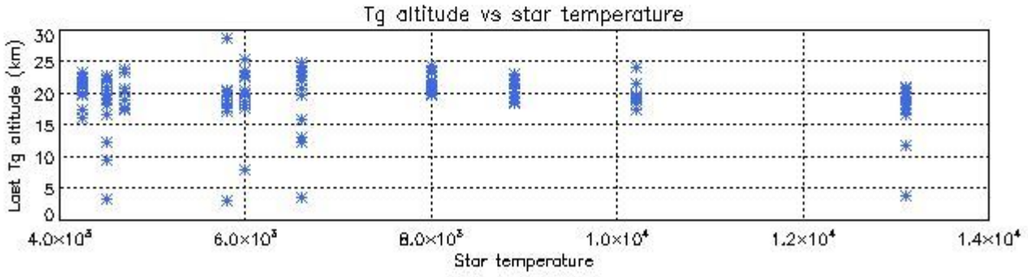


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

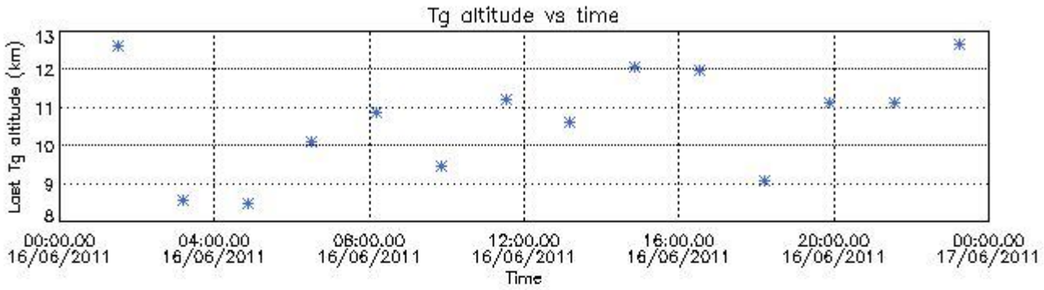


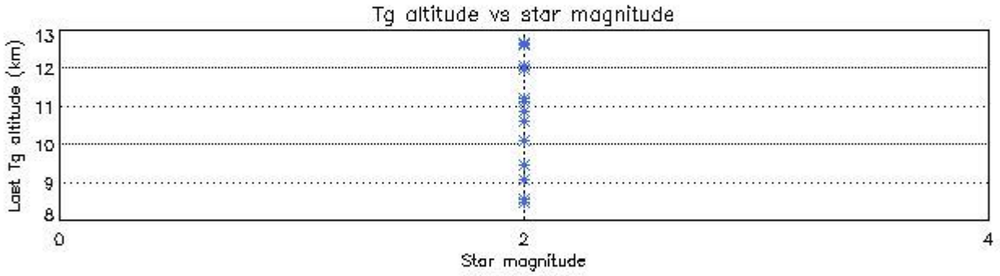


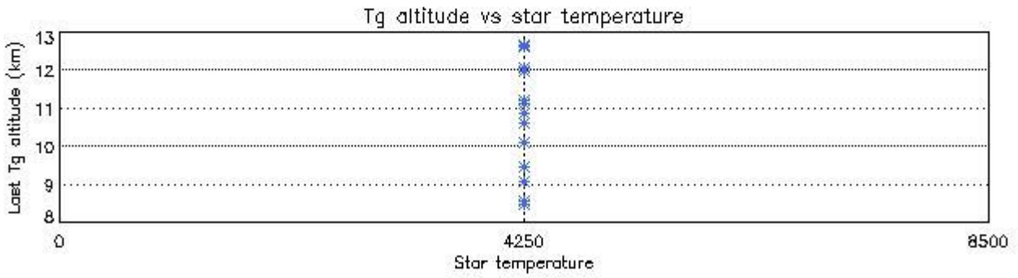


6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost





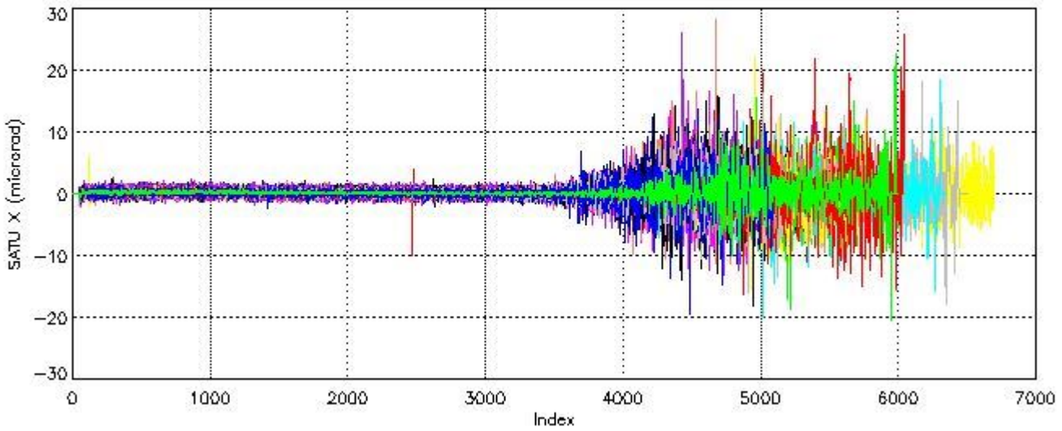


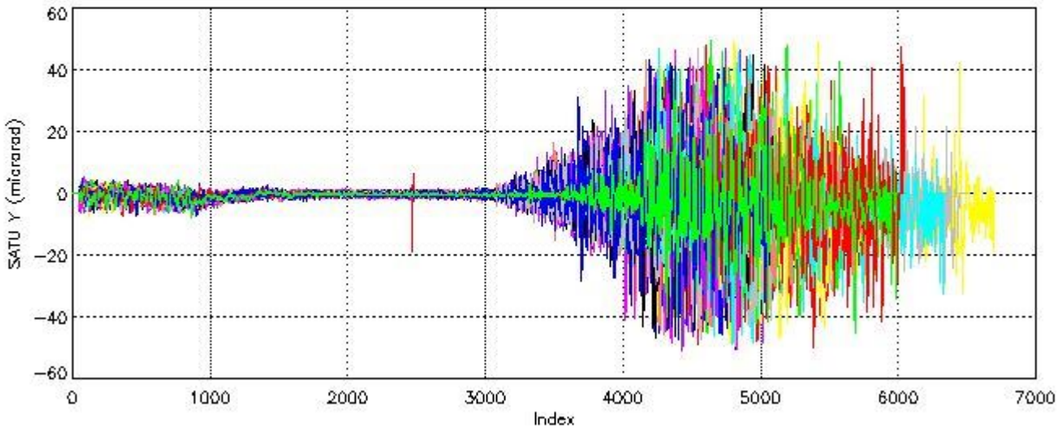
7. Star Acquisition and Tracking Unit (SATU)

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:	0.23922	-1.0984	0.24743	-1.1910
St. deviation:	0.33453	1.5021	0.71666	1.4816
Maximum:	6.1000	5.3000	6.0000	10.100
Minimum:	-2.1000	-8.0000	-4.6000	-10.600

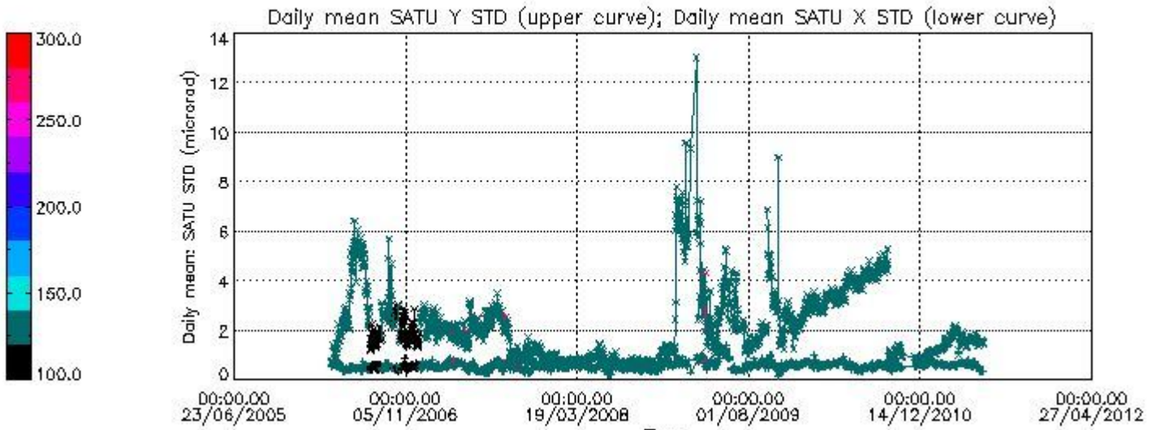
Number of data:	59100.	59100.	1.2615E+05	1.2615E+05
90Percentile:	0.70000	0.70000	1.2000	0.50000

7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

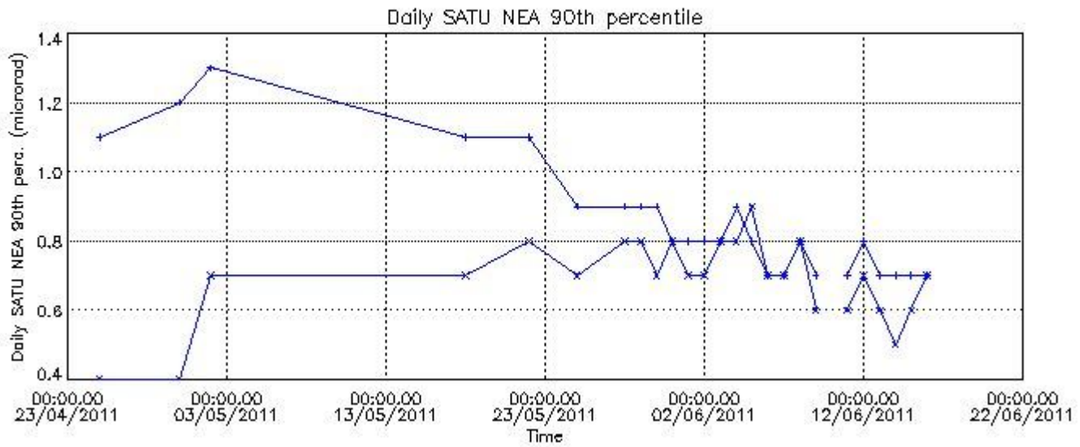
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

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



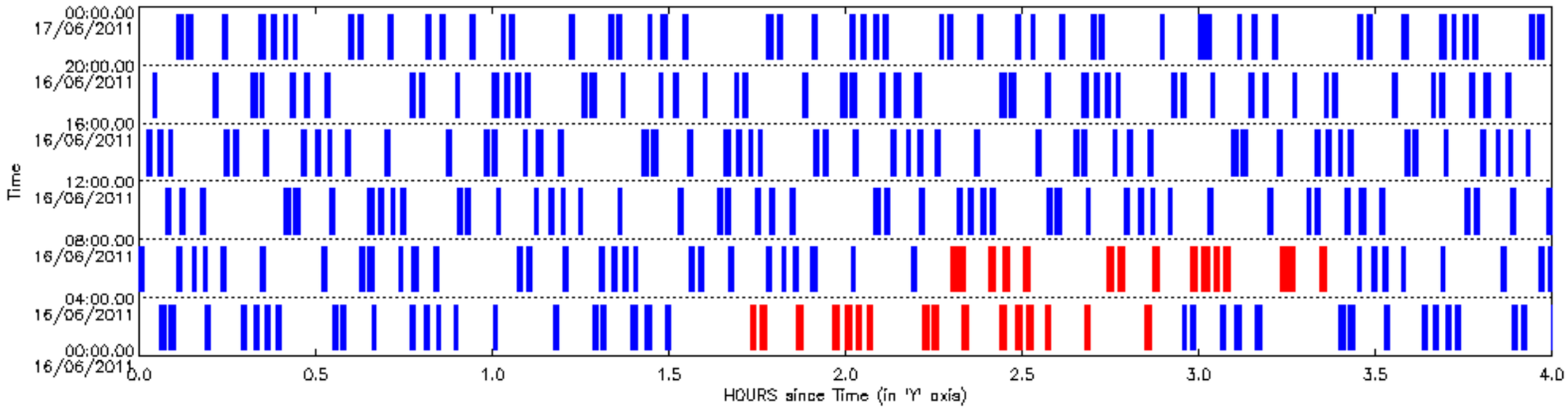
Lower curve: 90th percentile of SATU Y axis
Upper curve: 90th percentile of SATU X axis

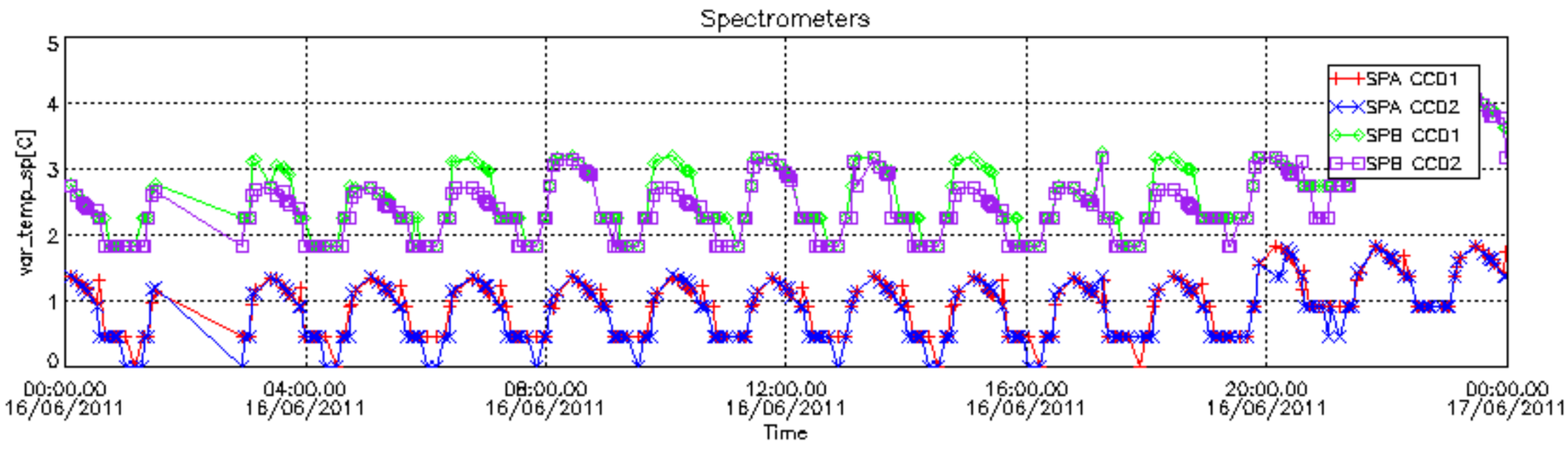


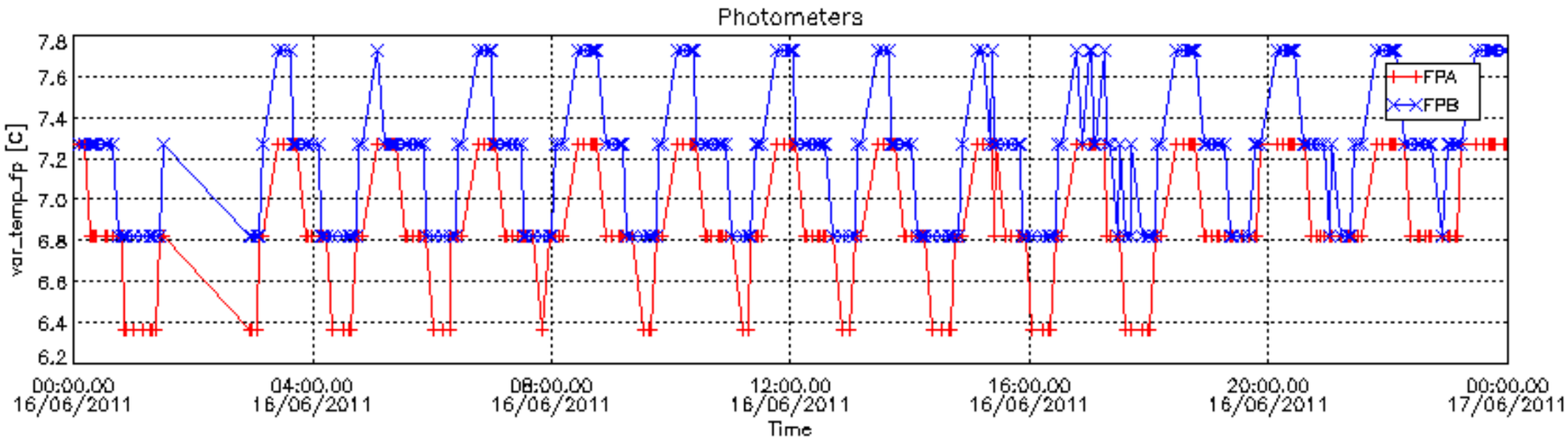
8. Auxiliary Data Files used for the production reported in section 2.4

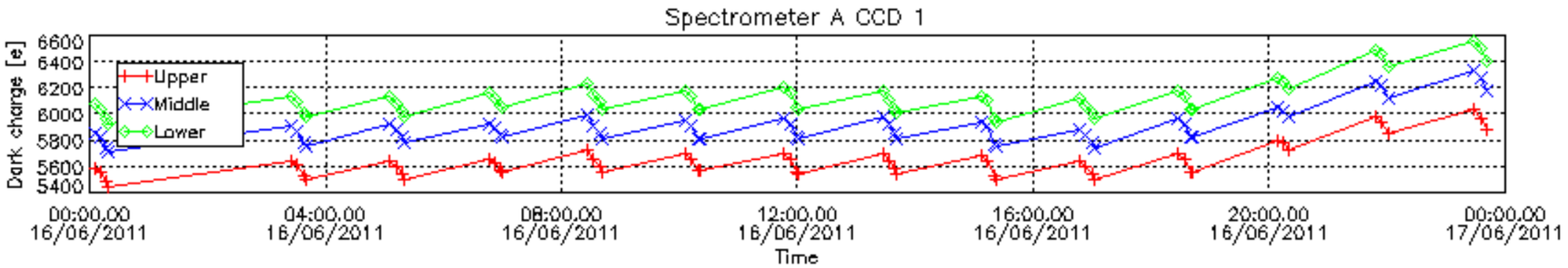
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

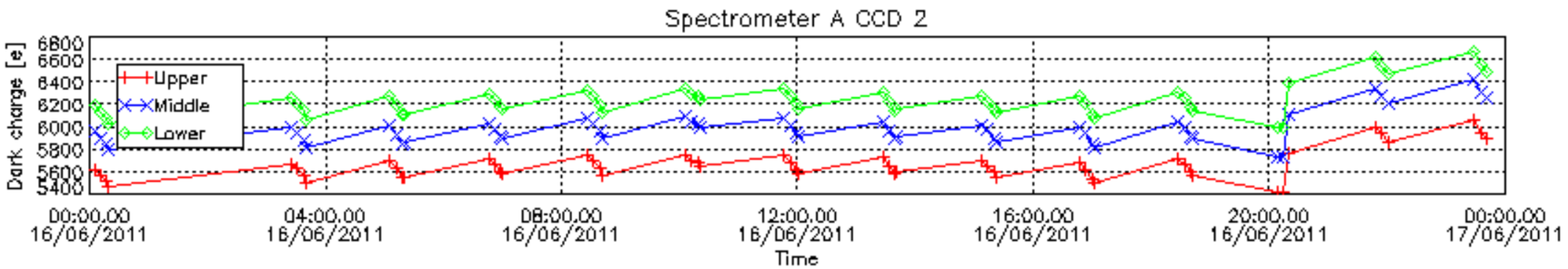
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	16-JUN-2011 00:04:59
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110615_093902_20110614_000000_20500101_000000	1	16-JUN-2011 00:04:59
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20110513_081743_20020301_000000_20500101_000000	1	16-JUN-2011 00:04:59
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-JUN-2011 00:04:59
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	16-JUN-2011 00:04:59
ECMWF_FILE	AUX_ECF_AXNECM20110615_062116_20110615_210000_20110616_090000	1	16-JUN-2011 00:04:59
ECMWF_FILE	AUX_ECF_AXNECM20110615_182119_20110616_030000_20110616_150000	41	16-JUN-2011 04:37:24
ECMWF_FILE	AUX_ECA_AXNECM20110616_062115_20110615_210000_20110616_090000	61	16-JUN-2011 06:17:37
ECMWF_FILE	AUX_ECF_AXNECM20110615_182119_20110616_030000_20110616_150000	75	16-JUN-2011 07:26:50
ECMWF_FILE	AUX_ECF_AXNECM20110616_062115_20110616_090000_20110616_210000	95	16-JUN-2011 09:07:04
ECMWF_FILE	AUX_ECF_AXNECM20110616_062115_20110616_150000_20110617_030000	174	16-JUN-2011 15:41:35
ECMWF_FILE	AUX_ECA_AXNECM20110616_182115_20110616_090000_20110616_210000	192	16-JUN-2011 17:15:08
ECMWF_FILE	AUX_ECF_AXNECM20110616_062115_20110616_150000_20110617_030000	232	16-JUN-2011 20:35:37
ECMWF_FILE	AUX_ECF_AXNECM20110616_062116_20110616_210000_20110617_090000	246	16-JUN-2011 21:48:15
OPTIONAL_ECMWF_FILE	MISSING	1	16-JUN-2011 00:04:59
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110615_222118_20110615_073024_20110625_094413	1	16-JUN-2011 00:04:59
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110616_102115_20110615_191202_20110625_212548	95	16-JUN-2011 09:07:04

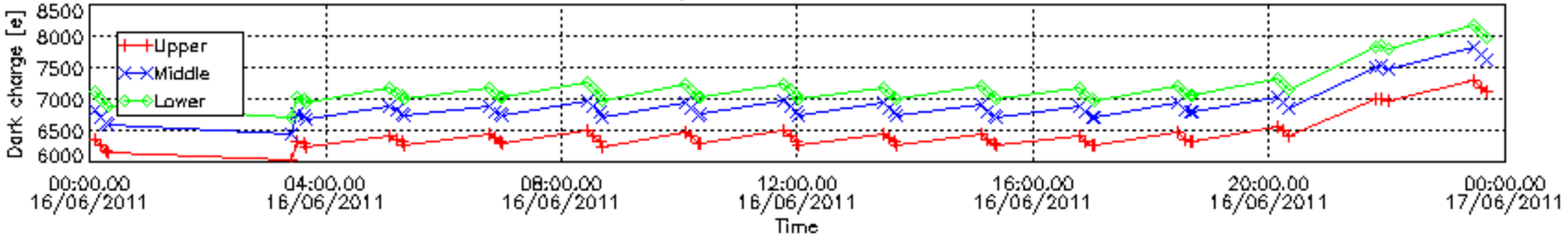

00:00.00
17/06/2011
20:00.00
16/06/2011
16:00.00
16/06/2011
12:00.00
16/06/2011
08:00.00
16/06/2011
04:00.00
16/06/2011
00:00.00
16/06/2011
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

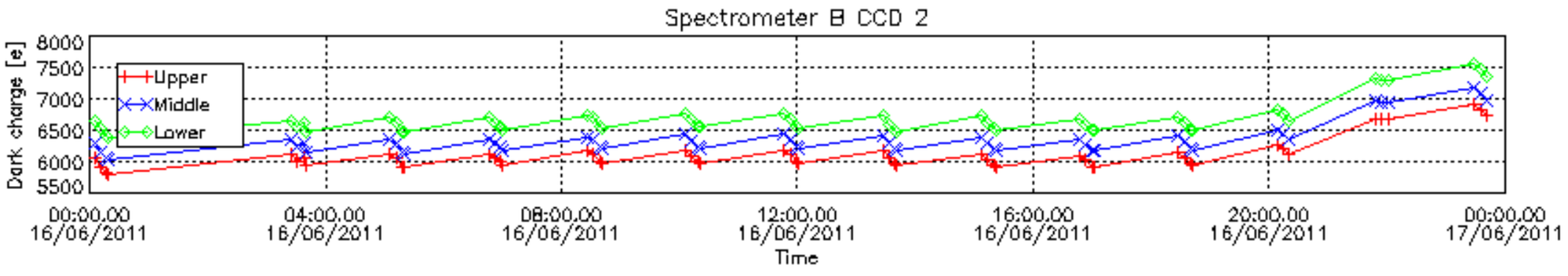

Spectrometers
var_temp_sp[C]
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
16/06/2011
04:00.00
16/06/2011
08:00.00
16/06/2011
12:00.00
16/06/2011
16:00.00
16/06/2011
20:00.00
16/06/2011
00:00.00
17/06/2011
Time

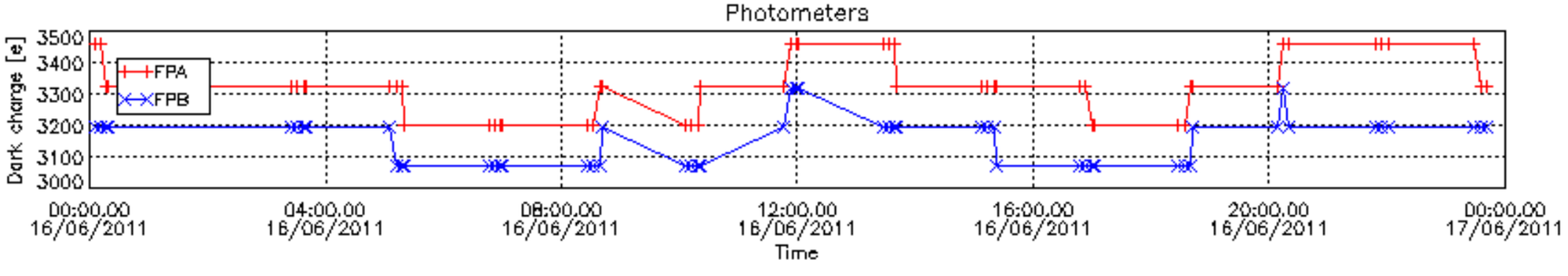

Photometers
var_temp_fp [C]
FPA
FPB
00:00.00
16/06/2011
04:00.00
16/06/2011
08:00.00
16/06/2011
12:00.00
16/06/2011
16:00.00
16/06/2011
20:00.00
16/06/2011
00:00.00
17/06/2011
Time

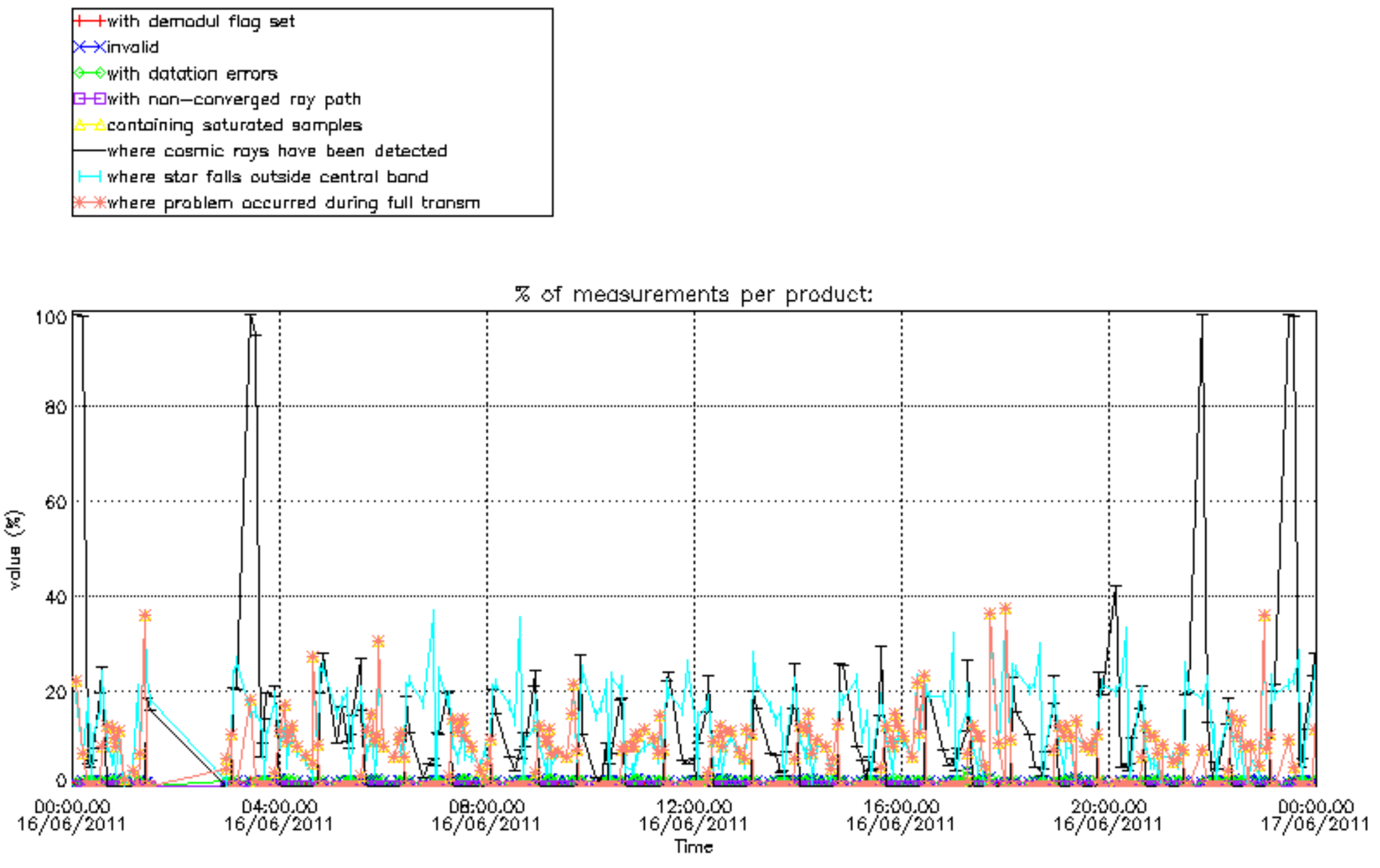

Spectrometer A CCD 1
Dark charge [e]
6600
6400
6200
6000
5800
5600
5400
Upper
Middle
Lower
00:00.00 16/06/2011
04:00.00 16/06/2011
08:00.00 16/06/2011
12:00.00 16/06/2011
16:00.00 16/06/2011
20:00.00 16/06/2011
00:00.00 17/06/2011
Time

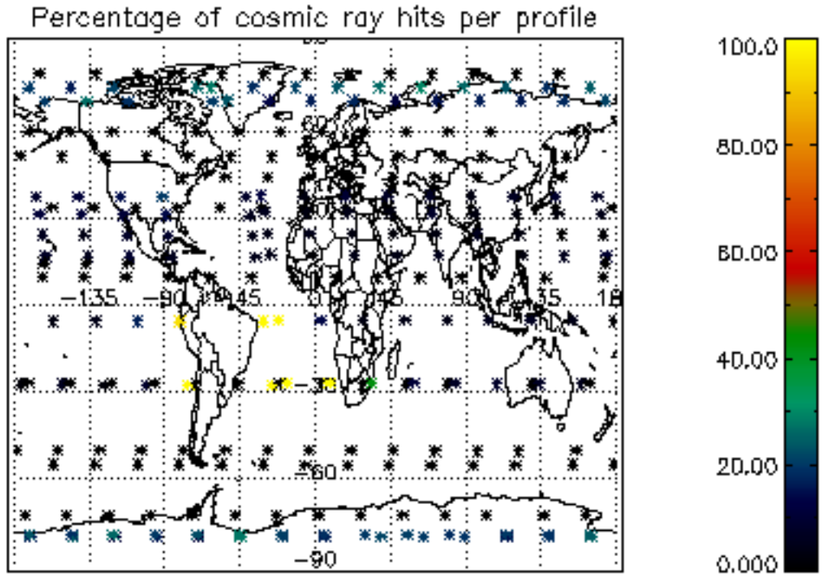

Spectrometer A CCD 2
Dark charge [e]
6800
6600
6400
6200
6000
5800
5600
5400
Upper
Middle
Lower
00:00.00 16/06/2011
04:00.00 16/06/2011
08:00.00 16/06/2011
12:00.00 16/06/2011
16:00.00 16/06/2011
20:00.00 16/06/2011
00:00.00 17/06/2011
Time

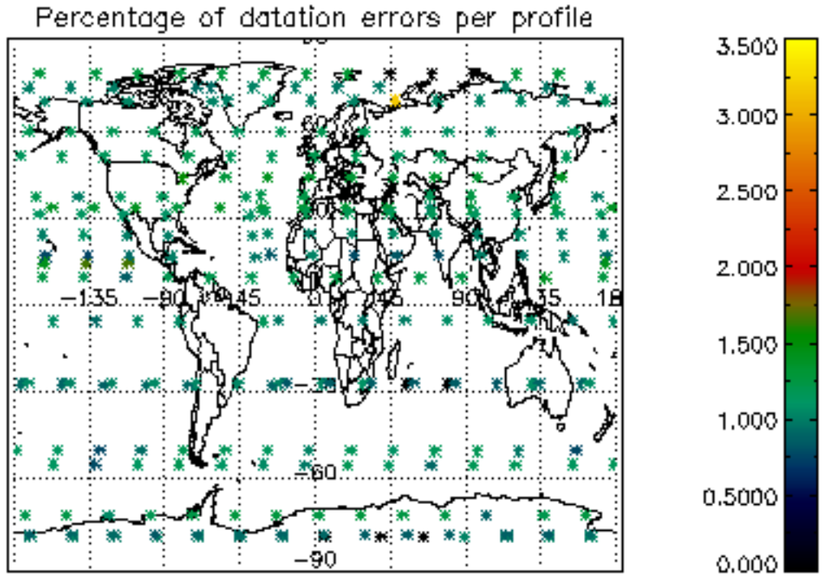

Spectrometer B CCD 1
Dark charge [e]
8500
8000
7500
7000
6500
6000
Upper
Middle
Lower
00:00.00 16/06/2011
04:00.00 16/06/2011
08:00.00 16/06/2011
12:00.00 16/06/2011
16:00.00 16/06/2011
20:00.00 16/06/2011
00:00.00 17/06/2011
Time

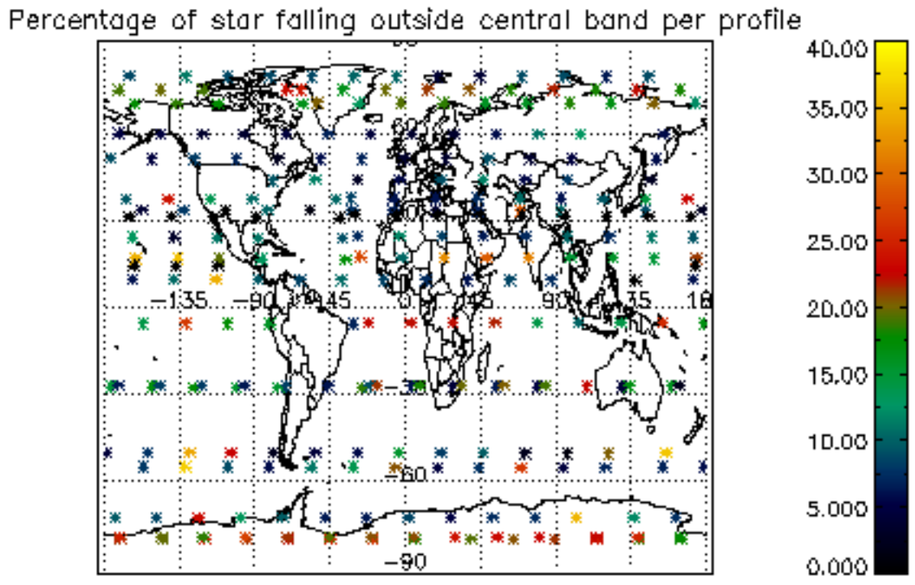

Spectrometer B CCD 2
Dark charge [e]
8000
7500
7000
6500
6000
5500
Upper
Middle
Lower
00:00.00 16/06/2011
04:00.00 16/06/2011
08:00.00 16/06/2011
12:00.00 16/06/2011
16:00.00 16/06/2011
20:00.00 16/06/2011
00:00.00 17/06/2011
Time

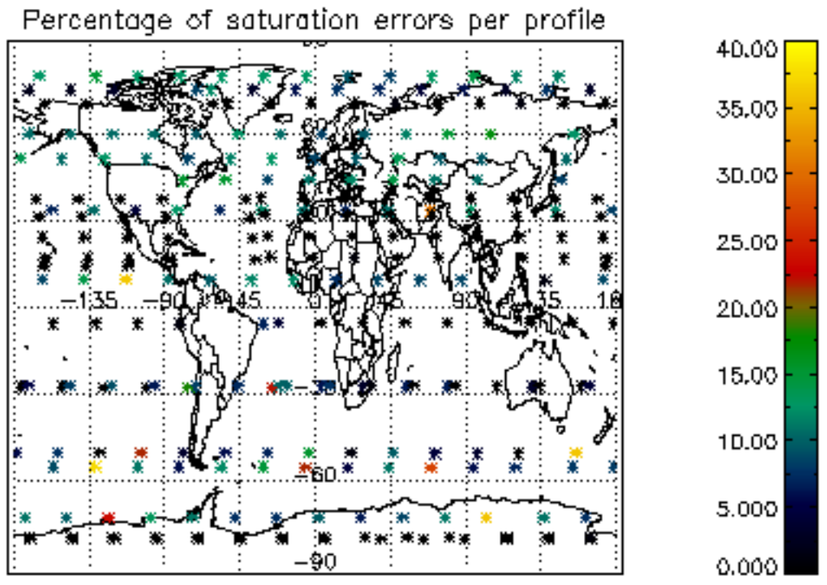

Photometers
Dark charge [e]
3500
3400
3300
3200
3100
3000
FPA
FPB
00:00.00 16/06/2011
04:00.00 16/06/2011
08:00.00 16/06/2011
12:00.00 16/06/2011
16:00.00 16/06/2011
20:00.00 16/06/2011
00:00.00 17/06/2011
Time


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:
value (%)
100
80
60
40
20
0
00:00.00 16/06/2011
04:00.00 16/06/2011
08:00.00 16/06/2011
12:00.00 16/06/2011
16:00.00 16/06/2011
20:00.00 16/06/2011
00:00.00 17/06/2011
Time

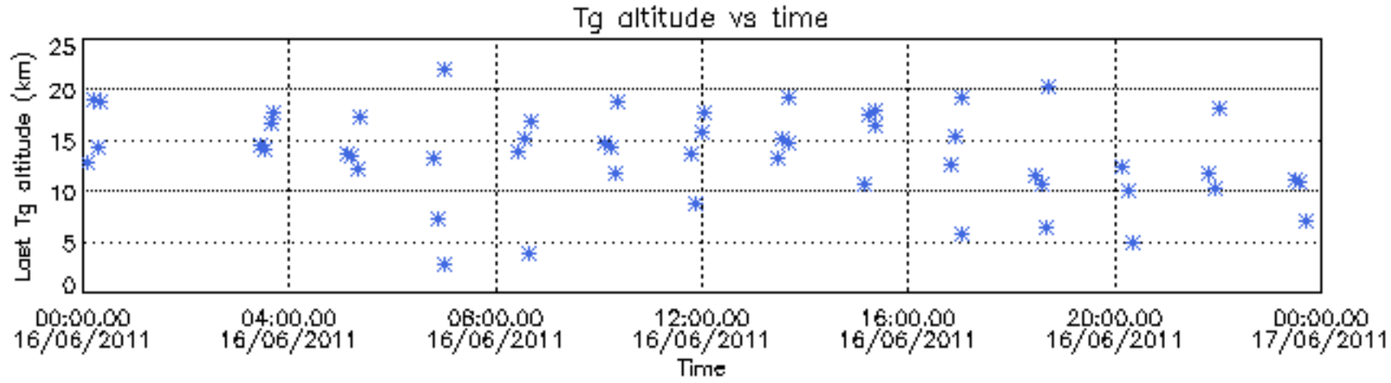

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−60
−90

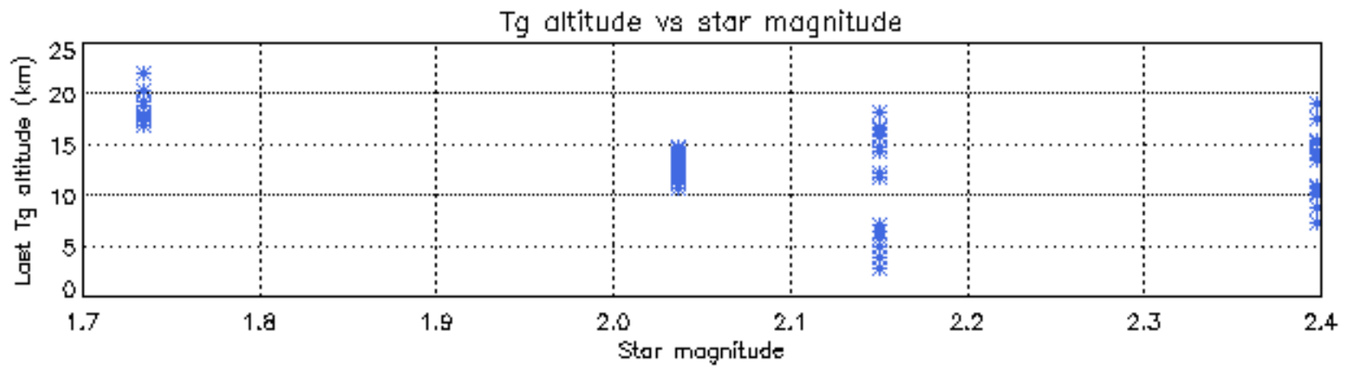

Percentage of datation errors per profile
3.500
3.000
2.500
2.000
1.500
1.000
0.5000
0.000
−135
−90
−60
−90

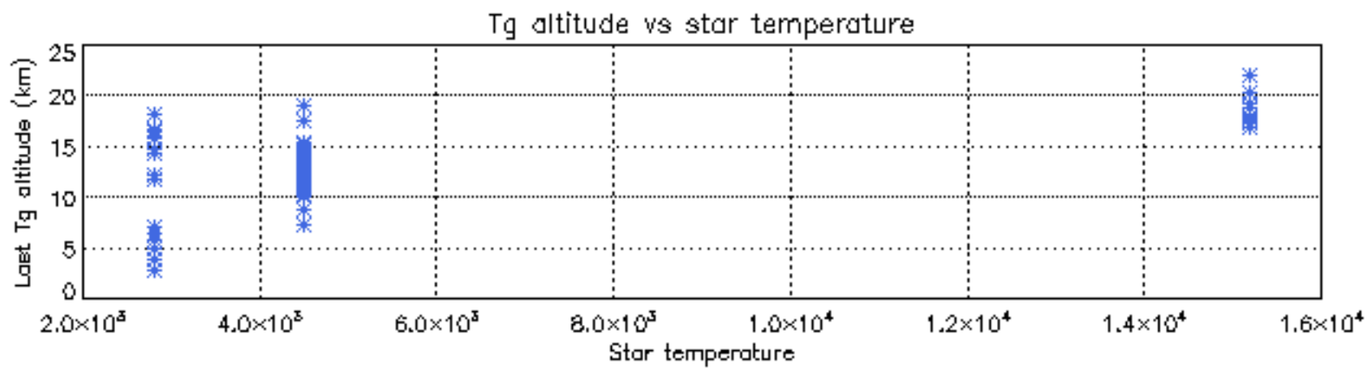

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−60
−90


Percentage of saturation errors per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−60
−90

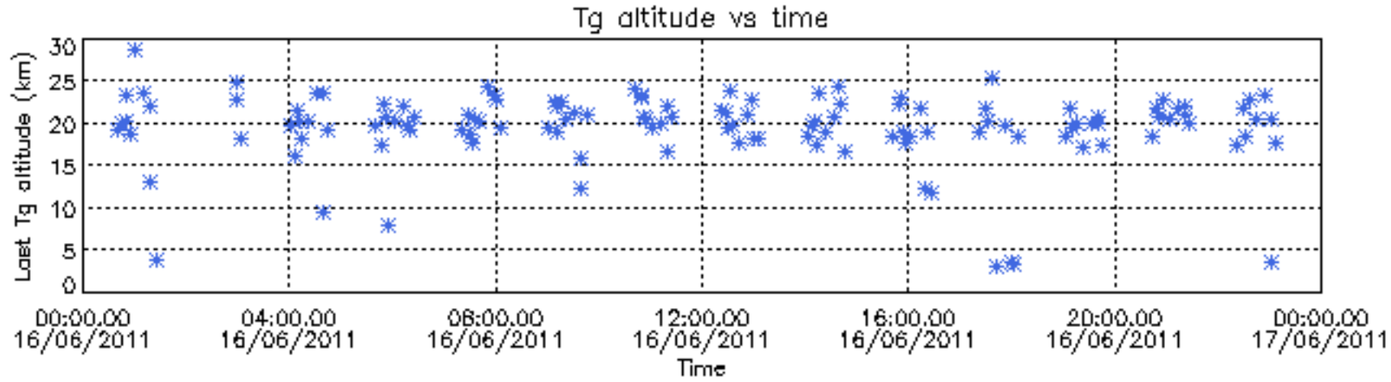
Tangent altitude at which the star is lost

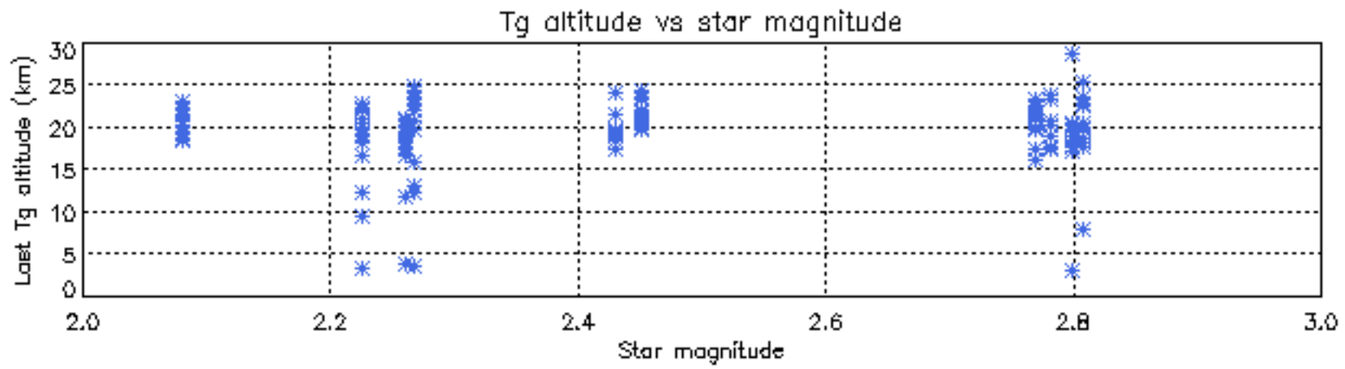


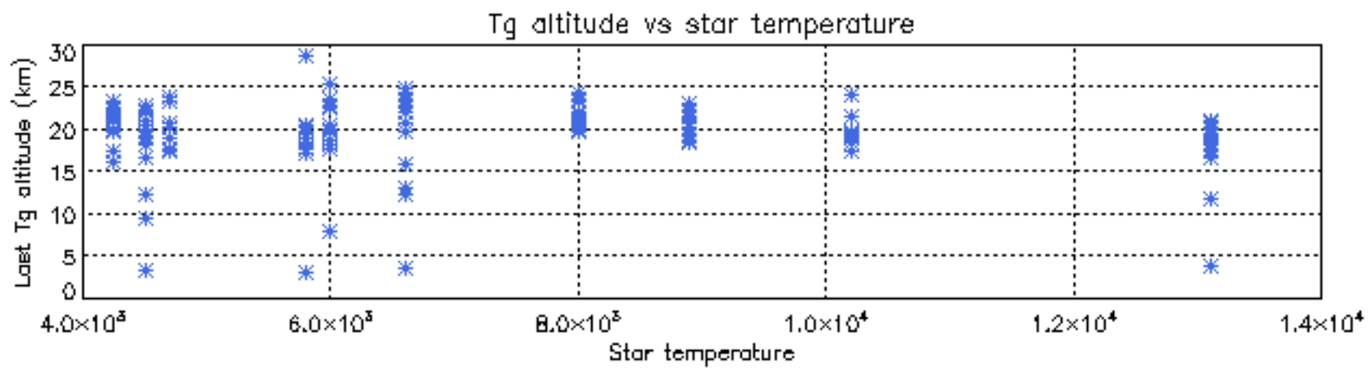




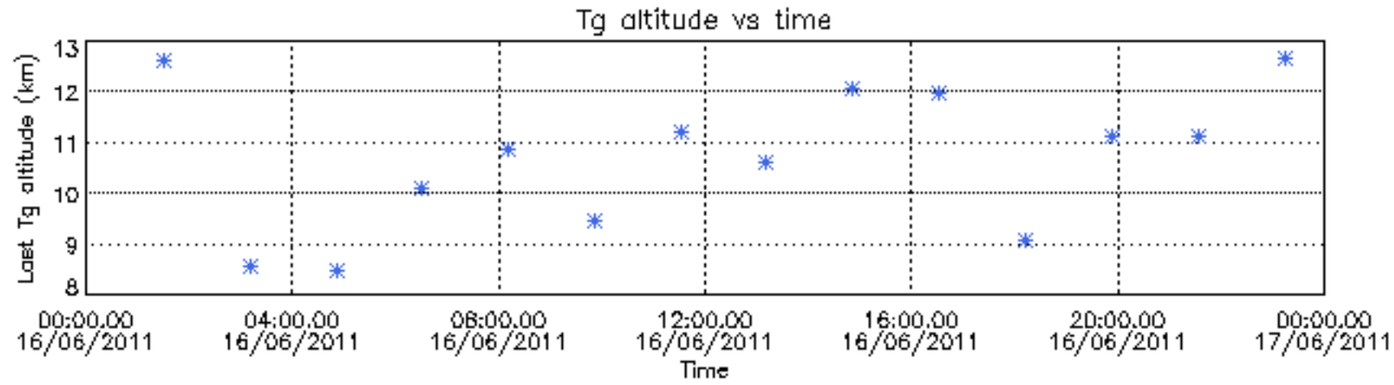
Tangent altitude at which the star is lost

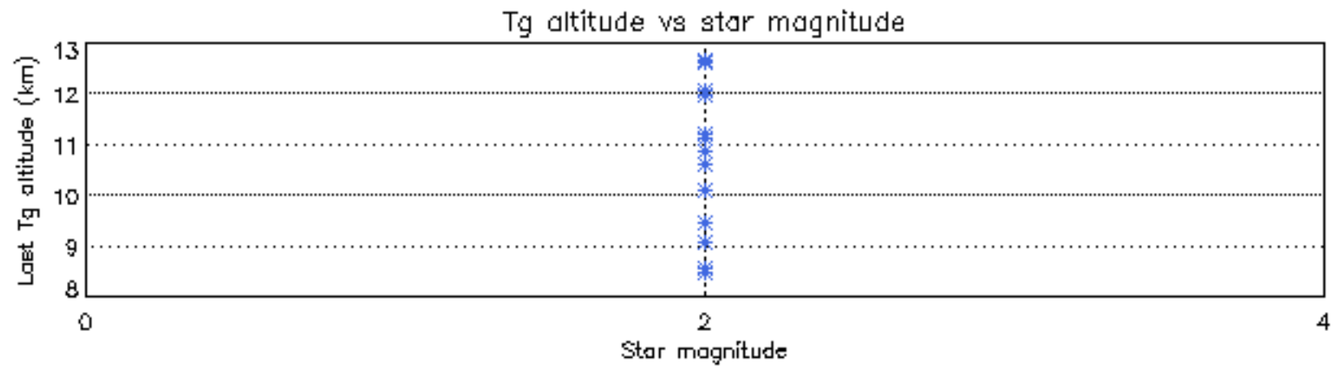


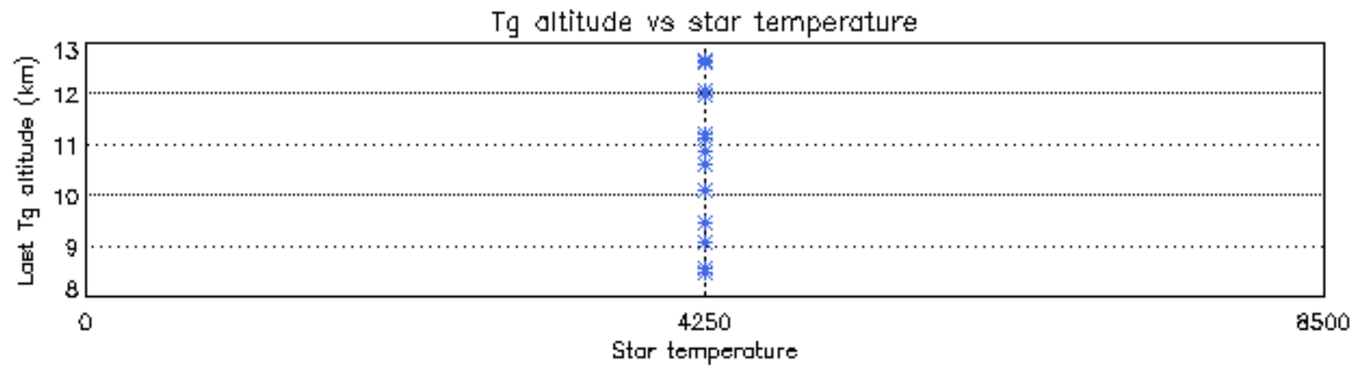


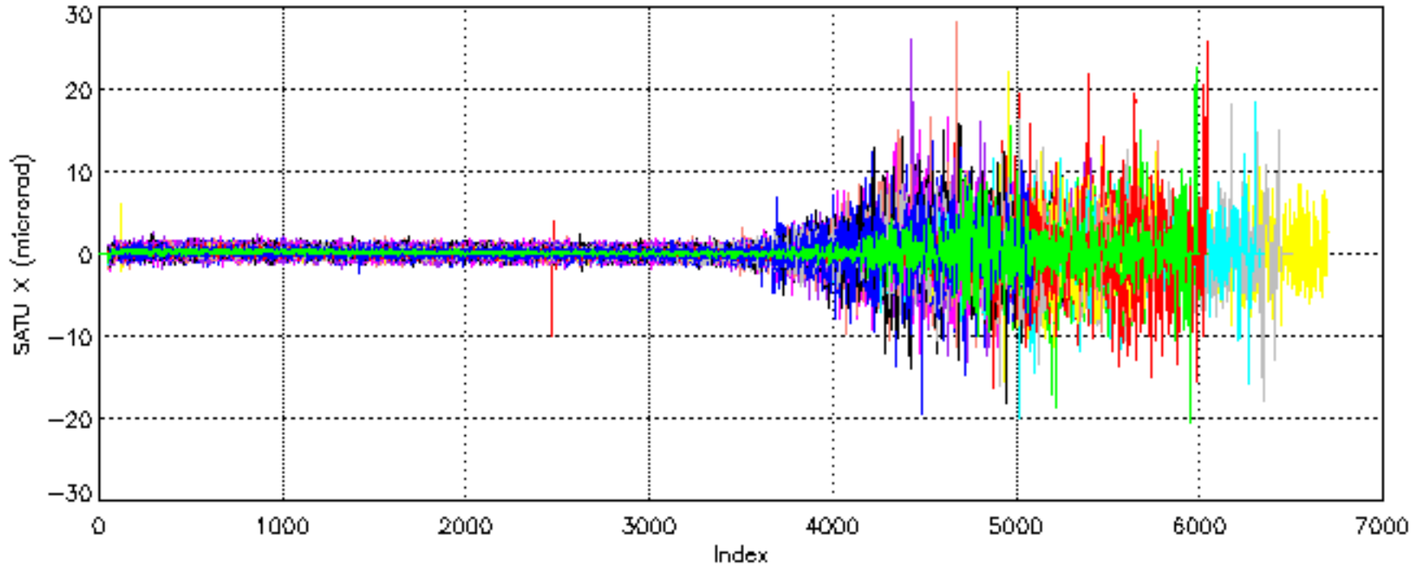


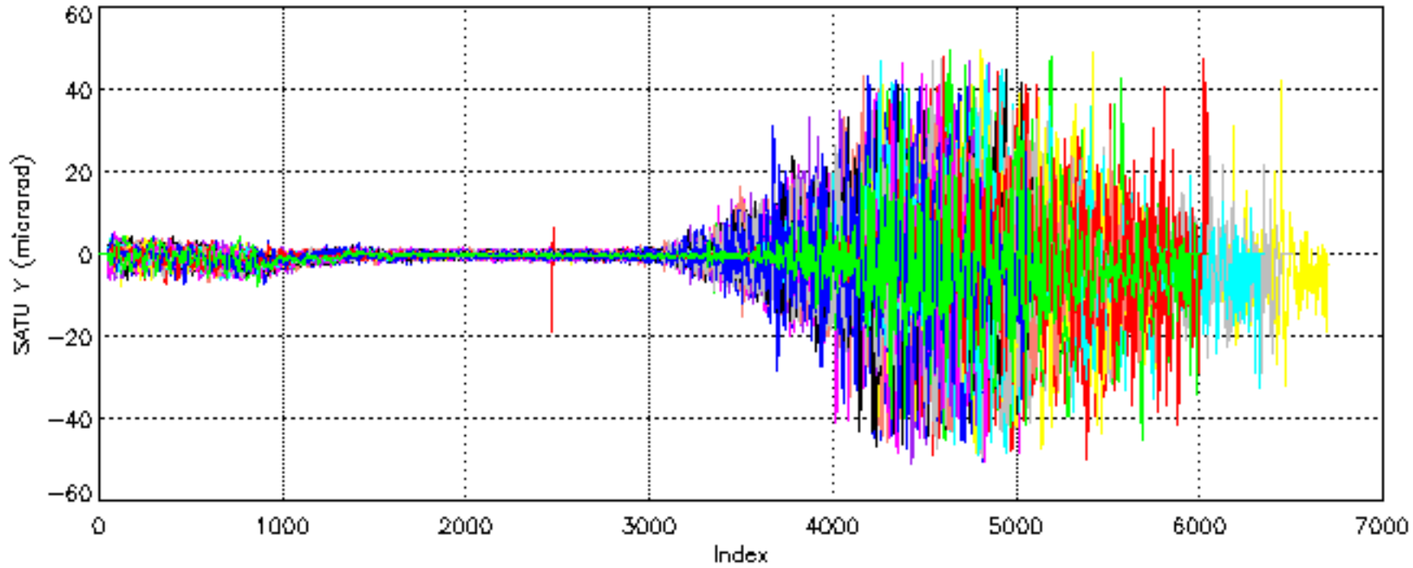
Tangent altitude at which the star is lost

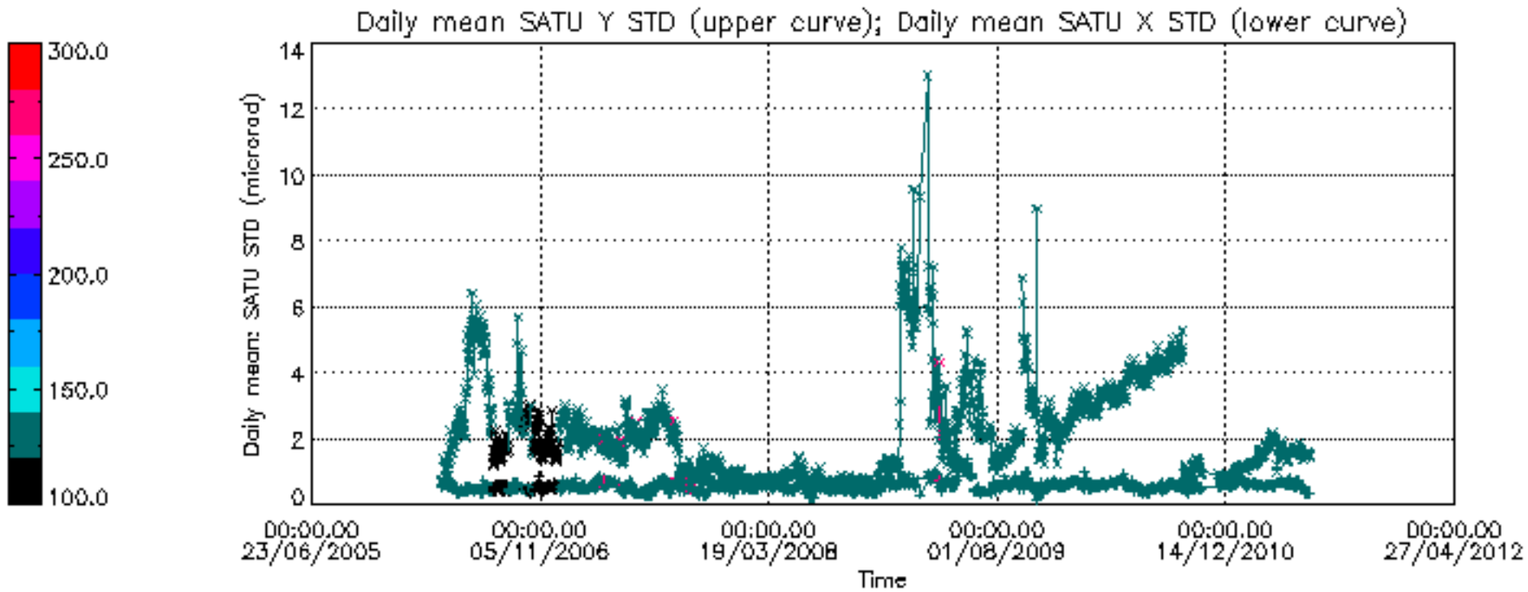


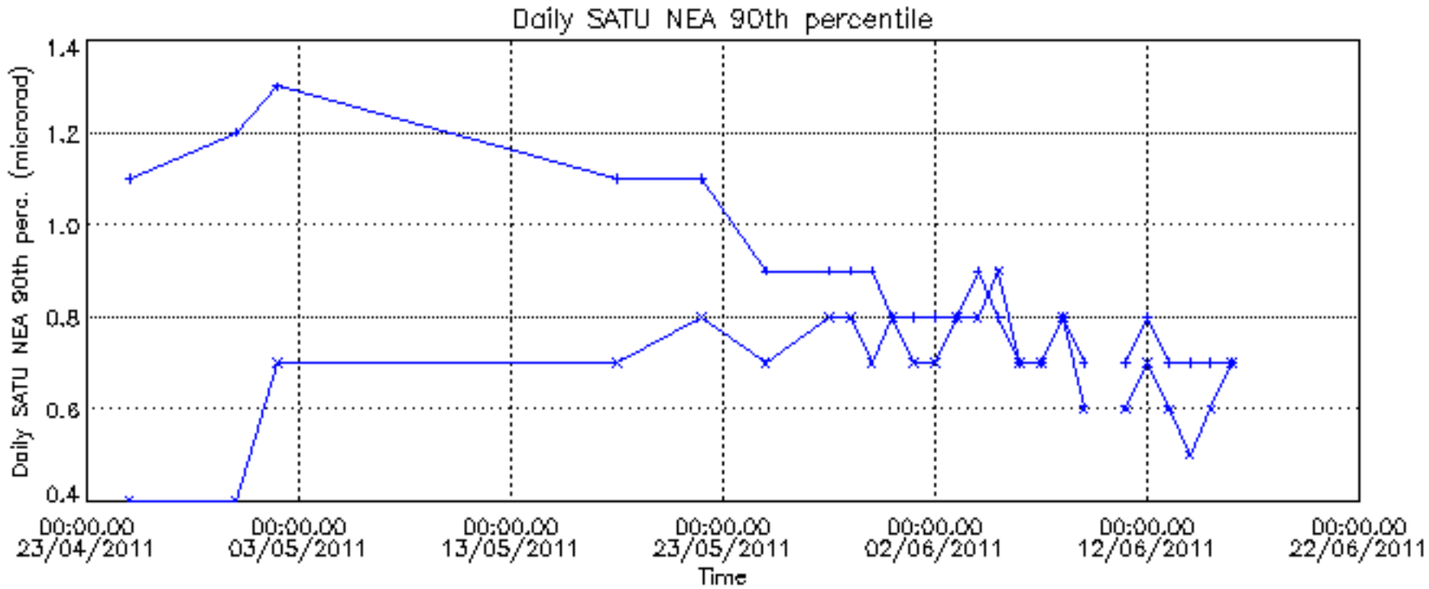





30
20
10
0
−10
−20
−30
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
7000
Index


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


Daily SATU NEA 90th percentile
Daily SATU NEA 90th perc. (microrad)
1.4
1.2
1.0
0.8
0.6
0.4
00:00.00 23/04/2011
00:00.00 03/05/2011
00:00.00 13/05/2011
00:00.00 23/05/2011
00:00.00 02/06/2011
00:00.00 12/06/2011
00:00.00 22/06/2011
Time

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3; -241.4; 01-JUN-2011 00:58:36; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;48378
4; -115.9; 01-JUN-2011 01:00:42; Dark ; 54.5; 18; 24Alp PsA ; 1.17; 9700;occ; 109; 0;48378
5; 79.8; 01-JUN-2011 01:03:57; Dark ; 57.5; 63; Bet Gru ; 2.15; 2800;occ; 115; 0;48379
6; 192.4; 01-JUN-2011 01:05:50; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;48379
7; 487.9; 01-JUN-2011 01:10:46; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;48379
8; 930.5; 01-JUN-2011 01:18:08; Dark ; 42.5; 147; Alp Ara ; 2.88; 26000;occ; 85; 0;48379
9; 1031.5; 01-JUN-2011 01:19:49; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;48379
10; 1138.9; 01-JUN-2011 01:21:37; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;48379
11; 1243.7; 01-JUN-2011 01:23:21; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;48379
12; 1365.1; 01-JUN-2011 01:25:23; Dark ; 51.0; 136; 23Tau Sco ; 2.82; 30000;occ; 102; 0;48379
13; 1488.9; 01-JUN-2011 01:27:27; Bright; 41.0; 80; 7Del Sco ; 2.32; 30000;occ; 82; 0;48379
14; 1580.3; 01-JUN-2011 01:28:58; Bright; 46.0; 86; 35Eta Oph ; 2.43; 10200;occ; 92; 0;48379
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16; 1821.9; 01-JUN-2011 01:33:00; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;48379
17; 2001.9; 01-JUN-2011 01:36:00; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;48379
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19; 2508.3; 01-JUN-2011 01:44:26; Bright; 44.0; 133; 40Zet Her ; 2.81; 6000;occ; 88; 0;48379
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22; 3907.9; 01-JUN-2011 02:07:46; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;48379
23; 4373.1; 01-JUN-2011 02:15:31; Bright; 43.0; 53; 43Bet And ; 2.05; 3300;occ; 86; 0;48379
24; 4534.2; 01-JUN-2011 02:18:12; Dark ; 55.0; 58; 21Alp And ; 2.07; 11000;occ; 110; 0;48379
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3; -240.7; 01-JUN-2011 02:38:51; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;48379
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5; 80.6; 01-JUN-2011 02:44:12; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;48380
6; 193.4; 01-JUN-2011 02:46:05; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;48380
7; 488.6; 01-JUN-2011 02:51:00; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;48380
8; 931.3; 01-JUN-2011 02:58:23; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;48380
9; 1032.0; 01-JUN-2011 03:00:04; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;48380
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17; 2002.0; 01-JUN-2011 03:16:14; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;48380
18; 2304.5; 01-JUN-2011 03:21:16; Bright; 42.0; 127; 27Bet Her ; 2.78; 4700;occ; 84; 0;48380
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9; -113.3; 01-JUN-2011 04:21:12; Dark ; 56.0; 18; 24Alp PsA ; 1.17; 9700;occ; 112; 0;48380
10; 81.4; 01-JUN-2011 04:24:27; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;48381
11; 194.4; 01-JUN-2011 04:26:20; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;48381
12; 489.4; 01-JUN-2011 04:31:15; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;48381
13; 931.5; 01-JUN-2011 04:38:37; Dark ; 42.5; 147; Alp Ara ; 2.88; 26000;occ; 85; 0;48381
14; 1032.6; 01-JUN-2011 04:40:18; Dark ; 54.0; 40; The Sco ; 1.86; 7100;occ; 108; 0;48381
15; 1139.7; 01-JUN-2011 04:42:05; Dark ; 48.5; 25; 35Lam Sco ; 1.62; 28000;occ; 97; 0;48381
16; 1244.5; 01-JUN-2011 04:43:50; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;48381
17; 1365.5; 01-JUN-2011 04:45:51; Dark ; 57.0; 136; 23Tau Sco ; 2.82; 30000;occ; 114; 0;48381
18; 1489.4; 01-JUN-2011 04:47:55; Bright; 39.5; 80; 7Del Sco ; 2.32; 30000;occ; 79; 0;48381
19; 1580.5; 01-JUN-2011 04:49:26; Bright; 46.5; 86; 35Eta Oph ; 2.43; 10200;occ; 93; 0;48381

  20; 1691.4; 01-JUN-2011 04:51:17; Bright; 42.0;   98; 13Zet Oph ; 2.57; 30000;occ; 84;   0;48381
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  22; 2304.1; 01-JUN-2011 05:01:30; Bright; 41.0; 127; 27Bet Her ; 2.78; 4700;occ; 82;   0;48381
  23; 2507.7; 01-JUN-2011 05:04:53; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87;   0;48381
  24; 2984.8; 01-JUN-2011 05:12:50; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76;   0;48381
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   7; -639.3; 01-JUN-2011 05:52:40; Dark ; 48.0;   52; 16Bet Cet ; 2.04; 4500;occ; 96;   0;48381
   8; -239.4; 01-JUN-2011 05:59:20; Dark ; 44.0;   84;   Alp Phe ; 2.40; 4500;occ; 88;   0;48381
   9; -112.0; 01-JUN-2011 06:01:28; Dark ; 57.0;   18; 24Alp PsA ; 1.17; 9700;occ; 114;   0;48381
  10;   82.2; 01-JUN-2011 06:04:42; Dark ; 48.5;   63;   Bet Gru ; 2.15; 2800;occ; 97;   0;48382
  11; 195.2; 01-JUN-2011 06:06:35; Dark ; 44.5;   31;   Alp Gru ; 1.73; 15200;occ; 89;   0;48382
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  18; 1489.6; 01-JUN-2011 06:28:09; Bright; 40.0;   80; 7Del Sco ; 2.32; 30000;occ; 80;   0;48382
  19; 1580.7; 01-JUN-2011 06:29:40; Bright; 46.0;   86; 35Eta Oph ; 2.43; 10200;occ; 92;   0;48382
  20; 1691.4; 01-JUN-2011 06:31:31; Bright; 42.5;   98; 13Zet Oph ; 2.57; 30000;occ; 85;   0;48382
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  22; 2002.1; 01-JUN-2011 06:36:42; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74;   0;48382
  23; 2303.8; 01-JUN-2011 06:41:43; Bright; 44.0; 127; 27Bet Her ; 2.78; 4700;occ; 88;   0;48382
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   6; 3498.1; 12-JUN-2011 11:59:09; Bright; 49.0;   89; 5Alp Cep ; 2.45; 8000;occ; 98;   0;48543
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  18; 2746.8; 18-JUN-2011 04:45:44; Bright;  55.0;    5;  3Alp Lyr  ; 0.03; 11000;occ; 110;   0;48625
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  19; 2814.0; 23-JUN-2011 06:43:53; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77;   0;48698
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6; 2686.9; 23-JUN-2011 21:43:52; Bright; 44.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 88; 0;48707
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8; 3386.5; 23-JUN-2011 21:55:32; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;48707
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11; 4044.6; 23-JUN-2011 22:06:30; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;48707
12; 4248.5; 23-JUN-2011 22:09:54; Bright; 61.0; 73; 57Gam1And ; 2.26; 13100;occ; 122; 0;48707
13; 4393.3; 23-JUN-2011 22:12:18; Dark ; 61.0; 53; 43Bet And ; 2.05; 3300;occ; 122; 0;48707
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3;-1969.3; 23-JUN-2011 07:04:24; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;48698
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14; 1320.6; 23-JUN-2011 07:59:14; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;48699
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14; 6009.8; 23-JUN-2011 09:17:23; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;48699
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16; 6517.9; 23-JUN-2011 09:25:51; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;48700
17; 6700.7; 23-JUN-2011 09:28:54; Dark ; 49.5; 45; Alp Pav ; 1.94; 26000;occ; 99; 0;48700
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19; 7334.6; 23-JUN-2011 09:39:28; Dark ; 58.0; 116; 19Del Sgr ; 2.70; 4100;occ; 116; 0;48700
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  15; 5419.8; 24-JUN-2011 18:32:13; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;48719
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  17; 6028.6; 24-JUN-2011 18:42:21; Dark ; 46.5;   84;   Alp Phe ; 2.40; 4500;occ; 93;   0;48720
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   8; 3377.7; 24-JUN-2011 19:38:25; Bright; 47.5;   89; 5Alp Cep ; 2.45; 8000;occ; 95;   0;48720
   9; 3802.1; 24-JUN-2011 19:45:29; Bright; 56.0;   74; 11Bet Cas ; 2.27; 6600;occ; 112;   0;48720
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  15; 5420.4; 24-JUN-2011 20:12:27; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;48720
  16; 5708.3; 24-JUN-2011 20:17:15; Dark ; 62.5;   52; 16Bet Cet ; 2.04; 4500;occ; 125;   0;48720
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   9; 1971.8; 26-JUN-2011 01:19:10; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77;   0;48738
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   8; 1458.1; 26-JUN-2011 02:50:51; Bright; 48.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 97;   0;48739
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   6;-1376.7; 26-JUN-2011 03:43:50; Dark  ;  54.0;   50; 13Alp Ari  ; 2.01;  4250;occ; 108;   0;48739
   7;-1083.5; 26-JUN-2011 03:48:43; Dark  ;  46.0;   94; 92Alp Cet  ; 2.53;  3100;occ;  92;   0;48739
   8; -579.4; 26-JUN-2011 03:57:07; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;48739
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  12;  708.3; 26-JUN-2011 04:18:35; Dark  ;  41.5;   45;   Alp Pav  ; 1.94; 26000;occ;  83;   0;48740
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  14; 1331.6; 26-JUN-2011 04:28:58; Dark  ;  51.5;  116; 19Del Sgr  ; 2.70;  4100;occ; 103;   0;48740
  15; 1458.1; 26-JUN-2011 04:31:05; Bright;  48.5;  155; 41Pi  Sgr  ; 2.90;  6600;occ;  97;   0;48740
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  10; 4043.7; 26-JUN-2011 21:56:30; Bright;  55.0;  160; 23Gam Per  ; 2.93;  4700;occ; 110;   0;48750
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  13; 3355.6; 27-JUN-2011 01:05:30; Bright;  47.0;   89;  5Alp Cep  ; 2.45;  8000;occ;  94;   0;48752
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   7;-1078.2; 27-JUN-2011 03:12:04; Dark ; 40.0;   94; 92Alp Cet ; 2.53; 3100;occ; 80;   0;48753
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  13; 1252.4; 27-JUN-2011 03:50:55; Dark ; 44.5;   38; 20Eps Sgr ; 1.84; 11000;occ; 89;   0;48754
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  19; 2801.1; 27-JUN-2011 04:16:43; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70;   0;48754
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   9;   48.1; 27-JUN-2011 05:11:04; Dark ; 46.5;   84;   Alp Phe ; 2.40; 4500;occ; 93;   0;48755
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   8; 3347.8; 27-JUN-2011 21:08:10; Bright; 48.0;   89; 5Alp Cep ; 2.45; 8000;occ; 96;   0;48764

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  18; 6459.5; 27-JUN-2011 20:19:48; Dark  ;  63.5;   63;   Bet Gru  ; 2.15;  2800;occ; 127;   0;48764
  19; 6577.8; 27-JUN-2011 20:21:46; Dark  ;  50.0;   31;   Alp Gru  ; 1.73; 15200;occ; 100;   0;48764
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  20; 5456.6; 28-JUN-2011 02:44:01; Dark  ;  59.0;    0;           ; 0.00;     0;occ; 118;   0;48767
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   3;   71.8; 28-JUN-2011 21:17:04; Dark  ;  51.0;   84;   Alp Phe  ; 2.40;  4500;occ; 102;   0;48779
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   6;  728.1; 28-JUN-2011 21:28:00; Dark  ;  40.0;   45;   Alp Pav  ; 1.94; 26000;occ;  80;   0;48779
   7; 1259.1; 28-JUN-2011 21:36:51; Dark  ;  44.0;   38; 20Eps Sgr  ; 1.84; 11000;occ;  88;   0;48779
   8; 1341.3; 28-JUN-2011 21:38:13; Dark  ;  45.5;  116; 19Del Sgr  ; 2.70;  4100;occ;  91;   0;48779
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  13; 2645.3; 28-JUN-2011 21:59:57; Bright;  43.0;    5;  3Alp Lyr  ; 0.03; 11000;occ;  86;   0;48779
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  19; 4245.2; 28-JUN-2011 22:26:37; Bright; 46.0;   73; 57Gam1And ; 2.26; 13100;occ; 92;   0;48779
  20; 4400.0; 28-JUN-2011 22:29:12; Dark ; 50.5; 173; 4Bet Tri ; 3.00; 8900;occ; 101;   0;48779
  21; 4649.1; 28-JUN-2011 22:33:21; Dark ; 53.0;   50; 13Alp Ari ; 2.01; 4250;occ; 106;   0;48779
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   6; 1259.4; 28-JUN-2011 23:17:05; Dark ; 46.0;   38; 20Eps Sgr ; 1.84; 11000;occ; 92;   0;48780
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   8; 1466.1; 28-JUN-2011 23:20:32; Bright; 45.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 90;   0;48780
   9; 1970.0; 28-JUN-2011 23:28:56; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75;   0;48780
  10; 2109.9; 28-JUN-2011 23:31:16; Bright; 37.5;   59; 55Alp Oph ; 2.08; 8900;occ; 75;   0;48780
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  14; 3336.9; 28-JUN-2011 23:51:43; Bright; 45.5;   89; 5Alp Cep ; 2.45; 8000;occ; 91;   0;48780
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  16; 3873.0; 29-JUN-2011 00:00:39; Bright; 48.0;   68; 18Alp Cas ; 2.22; 4500;occ; 96;   0;48780
  17; 4042.6; 29-JUN-2011 00:03:29; Bright; 36.0; 160; 23Gam Per ; 2.93; 4700;occ; 72;   0;48780
  18; 4245.1; 29-JUN-2011 00:06:51; Bright; 50.0;   73; 57Gam1And ; 2.26; 13100;occ; 100;   0;48780
  19; 4400.2; 29-JUN-2011 00:09:26; Dark ; 49.0; 173; 4Bet Tri ; 3.00; 8900;occ; 98;   0;48780
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   4;-1768.1; 28-JUN-2011 07:24:32; Bright; 63.0;   73; 57Gam1And ; 2.26; 13100;occ; 126;   0;48770
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   6;-1367.5; 28-JUN-2011 07:31:13; Dark ; 55.0;   50; 13Alp Ari ; 2.01; 4250;occ; 110;   0;48770
   7;-1071.6; 28-JUN-2011 07:36:09; Dark ; 48.0;   94; 92Alp Cet ; 2.53; 3100;occ; 96;   0;48770
   8; -554.9; 28-JUN-2011 07:44:45; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;48770
   9;   63.8; 28-JUN-2011 07:55:04; Dark ; 57.0;   84;   Alp Phe ; 2.40; 4500;occ; 114;   0;48771
  10; 452.4; 28-JUN-2011 08:01:33; Dark ; 67.0;   63;   Bet Gru ; 2.15; 2800;occ; 134;   0;48771
  11; 570.3; 28-JUN-2011 08:03:30; Dark ; 49.5;   31;   Alp Gru ; 1.73; 15200;occ; 99;   0;48771
  12; 724.3; 28-JUN-2011 08:06:04; Dark ; 45.0;   45;   Alp Pav ; 1.94; 26000;occ; 90;   0;48771
  13; 1257.2; 28-JUN-2011 08:14:57; Dark ; 44.5;   38; 20Eps Sgr ; 1.84; 11000;occ; 89;   0;48771
  14; 1339.4; 28-JUN-2011 08:16:20; Dark ; 49.0; 116; 19Del Sgr ; 2.70; 4100;occ; 98;   0;48771
  15; 1464.5; 28-JUN-2011 08:18:25; Bright; 46.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 93;   0;48771
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   2; 2110.6; 28-JUN-2011 08:29:11; Bright; 39.0;   59; 55Alp Oph ; 2.08; 8900;occ; 78;   0;48771
   3; 2649.8; 28-JUN-2011 08:38:10; Bright; 50.5;   5; 3Alp Lyr ; 0.03; 11000;occ; 101;   0;48771
   4; 2798.0; 28-JUN-2011 08:40:38; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79;   0;48771
   5; 3343.1; 28-JUN-2011 08:49:43; Bright; 45.5;   89; 5Alp Cep ; 2.45; 8000;occ; 91;   0;48771
   6; 3777.8; 28-JUN-2011 08:56:58; Bright; 51.5;   74; 11Bet Cas ; 2.27; 6600;occ; 103;   0;48771
   7; 3876.8; 28-JUN-2011 08:58:37; Bright; 49.0;   68; 18Alp Cas ; 2.22; 4500;occ; 98;   0;48771
   8; 4043.3; 28-JUN-2011 09:01:23; Bright; 36.0; 160; 23Gam Per ; 2.93; 4700;occ; 72;   0;48771
   9; 4245.9; 28-JUN-2011 09:04:46; Bright; 47.0;   73; 57Gam1And ; 2.26; 13100;occ; 94;   0;48771
  10; 4399.7; 28-JUN-2011 09:07:20; Dark ; 48.0; 173; 4Bet Tri ; 3.00; 8900;occ; 96;   0;48771
  11; 4646.8; 28-JUN-2011 09:11:27; Dark ; 55.0;   50; 13Alp Ari ; 2.01; 4250;occ; 110;   0;48771
  12; 4942.7; 28-JUN-2011 09:16:23; Dark ; 48.5;   94; 92Alp Cet ; 2.53; 3100;occ; 97;   0;48771
  13; 5459.9; 28-JUN-2011 09:25:00; Dark ; 59.0;   0;   ; 0.00;   0;occ; 118;   0;48771
  14; 6078.9; 28-JUN-2011 09:35:19; Dark ; 48.5;   84;   Alp Phe ; 2.40; 4500;occ; 97;   0;48772
  15; 6467.2; 28-JUN-2011 09:41:47; Dark ; 54.0;   63;   Bet Gru ; 2.15; 2800;occ; 108;   0;48772
  16; 6585.0; 28-JUN-2011 09:43:45; Dark ; 48.5;   31;   Alp Gru ; 1.73; 15200;occ; 97;   0;48772
  17; 6738.8; 28-JUN-2011 09:46:19; Dark ; 42.0;   45;   Alp Pav ; 1.94; 26000;occ; 84;   0;48772
  18; 7271.4; 28-JUN-2011 09:55:12; Dark ; 45.5;   38; 20Eps Sgr ; 1.84; 11000;occ; 91;   0;48772
  19; 7353.4; 28-JUN-2011 09:56:34; Dark ; 50.0; 116; 19Del Sgr ; 2.70; 4100;occ; 100;   0;48772
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   2; 2110.6; 28-JUN-2011 10:09:25; Bright; 39.5;   59; 55Alp Oph ; 2.08; 8900;occ; 79;   0;48772
   3; 2649.2; 28-JUN-2011 10:18:23; Bright; 48.0;   5; 3Alp Lyr ; 0.03; 11000;occ; 96;   0;48772

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   5; 3342.4; 28-JUN-2011 10:29:57; Bright;  47.0;   89;  5Alp Cep  ; 2.45;  8000;occ;  94;   0;48772
   6; 3777.1; 28-JUN-2011 10:37:11; Bright;  69.0;   74; 11Bet Cas  ; 2.27;  6600;occ; 138;   0;48772
   7; 3876.3; 28-JUN-2011 10:38:50; Bright;  48.0;   68; 18Alp Cas  ; 2.22;  4500;occ;  96;   0;48772
   8; 4043.2; 28-JUN-2011 10:41:37; Bright;  56.0;  160; 23Gam Per  ; 2.93;  4700;occ; 112;   0;48772
   9; 4245.8; 28-JUN-2011 10:45:00; Bright;  46.5;   73; 57Gam1And  ; 2.26; 13100;occ;  93;   0;48772
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  11; 4647.1; 28-JUN-2011 10:51:41; Dark  ;  59.0;   50; 13Alp Ari  ; 2.01;  4250;occ; 118;   0;48772
  12; 4943.0; 28-JUN-2011 10:56:37; Dark  ;  49.0;   94; 92Alp Cet  ; 2.53;  3100;occ;  98;   0;48772
  13; 5460.7; 28-JUN-2011 11:05:15; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;48772
  14; 6079.6; 28-JUN-2011 11:15:34; Dark  ;  50.0;   84;   Alp Phe  ; 2.40;  4500;occ; 100;   0;48773
  15; 6468.2; 28-JUN-2011 11:22:02; Dark  ;  51.0;   63;   Bet Gru  ; 2.15;  2800;occ; 102;   0;48773
  16; 6586.1; 28-JUN-2011 11:24:00; Dark  ;  53.0;   31;   Alp Gru  ; 1.73; 15200;occ; 106;   0;48773
  17; 6739.2; 28-JUN-2011 11:26:33; Dark  ;  42.0;   45;   Alp Pav  ; 1.94; 26000;occ;  84;   0;48773
  18; 7271.4; 28-JUN-2011 11:35:26; Dark  ;  45.0;   38; 20Eps Sgr  ; 1.84; 11000;occ;  90;   0;48773
  19; 7353.7; 28-JUN-2011 11:36:48; Dark  ;  50.0;  116; 19Del Sgr  ; 2.70;  4100;occ; 100;   0;48773
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   4; 2797.5; 28-JUN-2011 12:01:06; Bright;  39.5;  130; 23Bet Dra  ; 2.80;  5800;occ;  79;   0;48773
   5; 3341.5; 28-JUN-2011 12:10:09; Bright;  45.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  91;   0;48773
   6; 3776.9; 28-JUN-2011 12:17:25; Bright;  46.5;   74; 11Bet Cas  ; 2.27;  6600;occ;  93;   0;48773
   7; 3875.9; 28-JUN-2011 12:19:04; Bright;  48.5;   68; 18Alp Cas  ; 2.22;  4500;occ;  97;   0;48773
   8; 4043.1; 28-JUN-2011 12:21:51; Bright;  41.5;  160; 23Gam Per  ; 2.93;  4700;occ;  83;   0;48773
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  14; 6080.6; 28-JUN-2011 12:55:49; Dark  ;  51.5;   84;   Alp Phe  ; 2.40;  4500;occ; 103;   0;48774
  15; 6469.2; 28-JUN-2011 13:02:17; Dark  ;  50.5;   63;   Bet Gru  ; 2.15;  2800;occ; 101;   0;48774
  16; 6587.0; 28-JUN-2011 13:04:15; Dark  ;  49.5;   31;   Alp Gru  ; 1.73; 15200;occ;  99;   0;48774
  17; 6739.7; 28-JUN-2011 13:06:48; Dark  ;  42.5;   45;   Alp Pav  ; 1.94; 26000;occ;  85;   0;48774
  18; 7272.1; 28-JUN-2011 13:15:40; Dark  ;  45.0;   38; 20Eps Sgr  ; 1.84; 11000;occ;  90;   0;48774
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  17; 6740.3; 28-JUN-2011 14:47:02; Dark  ;  43.0;   45;   Alp Pav  ; 1.94; 26000;occ;  86;   0;48775
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   3; 1970.3; 28-JUN-2011 15:07:46; Bright;  38.0;  126; 60Bet Oph  ; 2.77;  4250;occ;  76;   0;48775
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   9; 3775.3; 28-JUN-2011 17:18:05; Bright; 51.0;   74; 11Bet Cas ; 2.27; 6600;occ; 102;   0;48776
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  19; 6589.9; 28-JUN-2011 18:05:00; Dark ; 50.5;   31;   Alp Gru ; 1.73; 15200;occ; 101;   0;48777
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  11; 4042.8; 28-JUN-2011 19:02:47; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74;   0;48777
  12; 4245.4; 28-JUN-2011 19:06:09; Bright; 43.0;   73; 57Gam1And ; 2.26; 13100;occ; 86;   0;48777
  13; 4400.1; 28-JUN-2011 19:08:44; Dark ; 51.0; 173; 4Bet Tri ; 3.00; 8900;occ; 102;   0;48777
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   9; 1970.1; 29-JUN-2011 01:09:10; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75;   0;48781
  10; 2109.6; 29-JUN-2011 01:11:30; Bright; 39.0;   59; 55Alp Oph ; 2.08; 8900;occ; 78;   0;48781
  11; 2226.9; 29-JUN-2011 01:13:27; Bright; 33.0; 168; 17Zet Aql ; 2.99; 11000;occ; 66;   0;48781
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  15; 3772.7; 29-JUN-2011 01:39:13; Bright; 70.0;   74; 11Bet Cas ; 2.27; 6600;occ; 140;   0;48781

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   3;  463.1; 29-JUN-2011 02:24:17; Dark  ;  54.5;   63;   Bet Gru  ; 2.15;  2800;occ; 109;   0;48782
   4;  580.1; 29-JUN-2011 02:26:14; Dark  ;  53.0;   31;   Alp Gru  ; 1.73; 15200;occ; 106;   0;48782
   5;  729.6; 29-JUN-2011 02:28:43; Dark  ;  41.0;   45;   Alp Pav  ; 1.94; 26000;occ;  82;   0;48782
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   7; 1466.7; 29-JUN-2011 02:41:01; Bright;  46.5;  155; 41Pi  Sgr  ; 2.90;  6600;occ;  93;   0;48782
   8; 1969.9; 29-JUN-2011 02:49:24; Bright;  37.5;  126; 60Bet Oph  ; 2.77;  4250;occ;  75;   0;48782
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  13; 1300.7; 29-JUN-2011 05:58:43; Dark  ;  45.5;  103; 38Zet Sgr  ; 2.60;  9700;occ;  91;   0;48784
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   8; 3763.0; 30-JUN-2011 09:23:29; Bright; 47.0;   74; 11Bet Cas ; 2.27; 6600;occ; 94;   0;48800
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   7; 3322.9; 30-JUN-2011 10:56:23; Bright; 44.5;   89; 5Alp Cep ; 2.45; 8000;occ; 89;   0;48801
   8; 3762.4; 30-JUN-2011 11:03:42; Bright; 46.5;   74; 11Bet Cas ; 2.27; 6600;occ; 93;   0;48801
   9; 3855.7; 30-JUN-2011 11:05:15; Bright; 41.0; 110; 37Del Cas ; 2.68; 8900;occ; 82;   0;48801
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   7; 3322.2; 30-JUN-2011 12:36:36; Bright; 47.0;   89; 5Alp Cep ; 2.45; 8000;occ; 94;   0;48802
   8; 3762.1; 30-JUN-2011 12:43:56; Bright; 49.5;   74; 11Bet Cas ; 2.27; 6600;occ; 99;   0;48802
   9; 3855.4; 30-JUN-2011 12:45:29; Bright; 63.0; 110; 37Del Cas ; 2.68; 8900;occ; 126;   0;48802
  10; 4041.8; 30-JUN-2011 12:48:35; Bright; 39.0; 160; 23Gam Per ; 2.93; 4700;occ; 78;   0;48802

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  15; 4657.4; 30-JUN-2011 16:19:19; Dark  ;  57.0;   50; 13Alp Ari  ; 2.01;  4250;occ; 114;   0;48804
  16; 4956.3; 30-JUN-2011 16:24:18; Dark  ;  49.5;   94; 92Alp Cet  ; 2.53;  3100;occ;  99;   0;48804
  17; 5488.2; 30-JUN-2011 16:33:10; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;48804
  18; 6112.3; 30-JUN-2011 16:43:34; Dark  ;  50.0;   84;   Alp Phe  ; 2.40;  4500;occ; 100;   0;48805
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  20; 6615.3; 30-JUN-2011 16:51:57; Dark  ;  50.0;   31;   Alp Gru  ; 1.73; 15200;occ; 100;   0;48805
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   3; 2109.0; 30-JUN-2011 17:17:05; Bright;  36.5;   59; 55Alp Oph  ; 2.08;  8900;occ;  73;   0;48805
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