GOMOS Daily Report 27-JUN-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

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   - 5.1 Percentage of products with some flags set
   - 5.2 Plot of quality information per product (time dependant)
   - 5.3 Plot of quality information per product (world map)

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

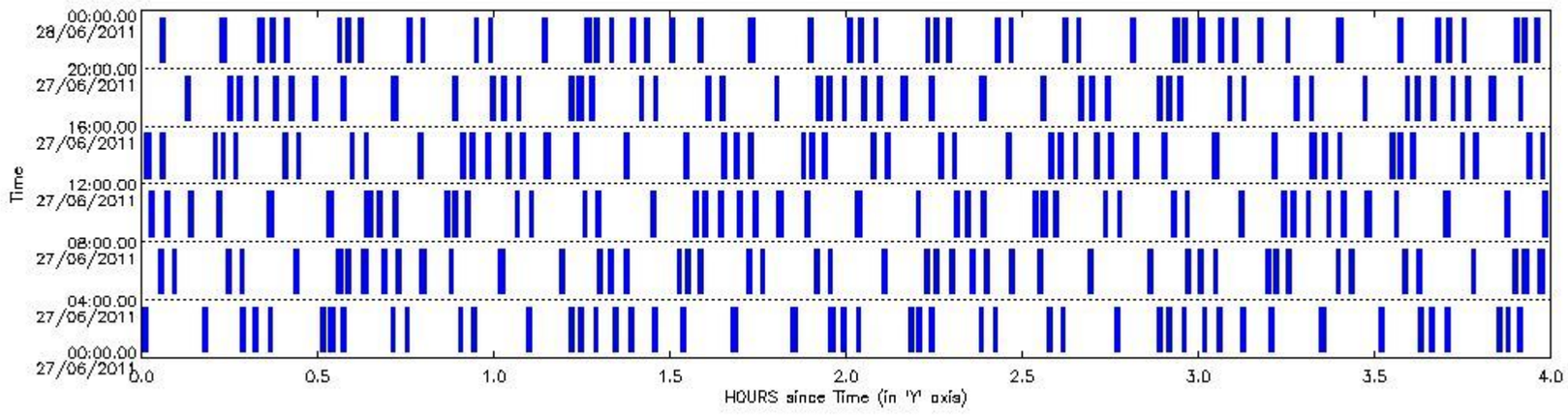
Item	Value
Time of report generation	30JUN2011 07:05:57
Data source version	GOMOS/6.01
Start time of products	27JUN2011 00:10:19
Stop time of products	27JUN2011 23:57:14
Store outputs in DB	Yes
Nb of level 1b prods	273
Nb of prods with errors	0

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)

No missing products.

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20110627_001019_000000473104_00031_48752_8696.N1	27-JUN-2011 00:10:19	Dark	47.000	84	Alp Phe	2.3970	4500.0	94	48752	No
2	GOM_TRA_1PNPDE20110627_001648_000000533104_00031_48752_8697.N1	27-JUN-2011 00:16:48	Straylight	53.000	63	Bet Gru	2.1500	2800.0	106	48752	No
3	GOM_TRA_1PNPDE20110627_001847_000000513104_00031_48752_8698.N1	27-JUN-2011 00:18:47	Straylight	50.500	31	Alp Gru	1.7340	15200.	101	48752	No
4	GOM_TRA_1PNPDE20110627_002129_000000423104_00031_48752_8699.N1	27-JUN-2011 00:21:29	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	48752	No
5	GOM_TRA_1PNPDE20110627_003026_000000473104_00031_48752_8700.N1	27-JUN-2011 00:30:26	Twi_and_stray	46.500	38	20Eps Sgr	1.8360	11000.	93	48752	No
6	GOM_TRA_1PNPDE20110627_003149_000000573104_00031_48752_8701.N1	27-JUN-2011 00:31:49	Bright	57.000	116	19Del Sgr	2.7000	4100.0	114	48752	No
7	GOM_TRA_1PNPDE20110627_003355_000000473104_00031_48752_8702.N1	27-JUN-2011 00:33:55	Bright	46.500	155	41Pi Sgr	2.9000	6600.0	93	48752	No
8	GOM_TRA_1PNPDE20110627_004226_000000393104_00031_48752_8703.N1	27-JUN-2011 00:42:26	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	48752	No
9	GOM_TRA_1PNPDE20110627_004446_000000383104_00031_48752_8704.N1	27-JUN-2011 00:44:46	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	48752	No
10	GOM_TRA_1PNPDE20110627_005354_000000423104_00031_48752_8705.N1	27-JUN-2011 00:53:54	Bright	42.000	5	3Alp Lyr	0.033000	11000.	84	48752	No
11	GOM_TRA_1PNPDE20110627_005616_000000383104_00031_48752_8706.N1	27-JUN-2011 00:56:16	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	48752	No
12	GOM_TRA_1PNPDE20110627_010530_000000473104_00031_48752_8707.N1	27-JUN-2011 01:05:30	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	48752	No

13	GOM_TRA_1PNPDE20110627_011241_000000463104_00031_48752_8708.N1	27-JUN-2011 01:12:41	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	48752	No
14	GOM_TRA_1PNPDE20110627_011419_000000483104_00031_48752_8709.N1	27-JUN-2011 01:14:19	Bright	48.000	68	18Alp Cas	2.2250	4500.0	96	48752	No
15	GOM_TRA_1PNPDE20110627_011658_000000363104_00031_48752_8710.N1	27-JUN-2011 01:16:58	Bright	35.500	160	23Gam Per	2.9300	4700.0	71	48752	No
16	GOM_TRA_1PNPDE20110627_012021_000000493104_00031_48752_8711.N1	27-JUN-2011 01:20:21	Bright	48.500	73	57Gam1And	2.2600	13100.	97	48752	No
17	GOM_TRA_1PNPDE20110627_012253_000000463104_00031_48752_8712.N1	27-JUN-2011 01:22:53	Twi_and_stray	45.500	173	4Bet Tri	3.0040	8900.0	91	48752	No
18	GOM_TRA_1PNPDE20110627_012656_000000573104_00031_48752_8713.N1	27-JUN-2011 01:26:56	Dark	56.500	50	13Alp Ari	2.0070	4250.0	113	48752	No
19	GOM_TRA_1PNPDE20110627_013150_000000453104_00031_48752_8714.N1	27-JUN-2011 01:31:50	Dark	44.500	94	92Alp Cet	2.5260	3100.0	89	48752	No
20	GOM_TRA_1PNPDE20110627_015034_000000553104_00032_48753_8717.N1	27-JUN-2011 01:50:34	Dark	55.000	84	Alp Phe	2.3970	4500.0	110	48753	No
21	GOM_TRA_1PNPDE20110627_015703_000000643104_00032_48753_8718.N1	27-JUN-2011 01:57:03	Straylight	63.500	63	Bet Gru	2.1500	2800.0	127	48753	No
22	GOM_TRA_1PNPDE20110627_015902_000000583104_00032_48753_8719.N1	27-JUN-2011 01:59:02	Straylight	58.000	31	Alp Gru	1.7340	15200.	116	48753	No
23	GOM_TRA_1PNPDE20110627_020143_000000443104_00032_48753_8720.N1	27-JUN-2011 02:01:43	Straylight	44.000	45	Alp Pav	1.9400	26000.	88	48753	No
24	GOM_TRA_1PNPDE20110627_021040_000000453104_00032_48753_8721.N1	27-JUN-2011 02:10:40	Twi_and_stray	44.500	38	20Eps Sgr	1.8360	11000.	89	48753	No
25	GOM_TRA_1PNPDE20110627_021203_000000483104_00032_48753_8722.N1	27-JUN-2011 02:12:03	Bright	48.000	116	19Del Sgr	2.7000	4100.0	96	48753	No
26	GOM_TRA_1PNPDE20110627_021409_000000473104_00032_48753_8723.N1	27-JUN-2011 02:14:09	Bright	46.500	155	41Pi Sgr	2.9000	6600.0	93	48753	No
27	GOM_TRA_1PNPDE20110627_022239_000000383104_00032_48753_8724.N1	27-JUN-2011 02:22:39	Bright	38.000	126	60Bet Oph	2.7700	4250.0	76	48753	No
28	GOM_TRA_1PNPDE20110627_022500_000000383104_00032_48753_8725.N1	27-JUN-2011 02:25:00	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	48753	No
29	GOM_TRA_1PNPDE20110627_023408_000000483104_00032_48753_8726.N1	27-JUN-2011 02:34:08	Bright	48.000	5	3Alp Lyr	0.033000	11000.	96	48753	No
30	GOM_TRA_1PNPDE20110627_023630_000000393104_00032_48753_8727.N1	27-JUN-2011 02:36:30	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	48753	No
31	GOM_TRA_1PNPDE20110627_024543_000000443104_00032_48753_8728.N1	27-JUN-2011 02:45:43	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	48753	No
32	GOM_TRA_1PNPDE20110627_025254_000000463104_00032_48753_8739.N1	27-JUN-2011 02:52:54	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	48753	No
33	GOM_TRA_1PNPDE20110627_025432_000000483104_00032_48753_8740.N1	27-JUN-2011 02:54:32	Bright	48.000	68	18Alp Cas	2.2250	4500.0	96	48753	No
34	GOM_TRA_1PNPDE20110627_025712_000000403104_00032_48753_8741.N1	27-JUN-2011 02:57:12	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	48753	No
35	GOM_TRA_1PNPDE20110627_030035_000000483104_00032_48753_8742.N1	27-JUN-2011 03:00:35	Bright	48.000	73	57Gam1And	2.2600	13100.	96	48753	No
36	GOM_TRA_1PNPDE20110627_030307_000000483104_00032_48753_8743.N1	27-JUN-2011 03:03:07	Twi_and_stray	48.000	173	4Bet Tri	3.0040	8900.0	96	48753	No
37	GOM_TRA_1PNPDE20110627_030710_000000553104_00032_48753_8744.N1	27-JUN-2011 03:07:10	Dark	54.500	50	13Alp Ari	2.0070	4250.0	109	48753	No
38	GOM_TRA_1PNPDE20110627_031204_000000403104_00032_48753_8745.N1	27-JUN-2011 03:12:04	Dark	40.000	94	92Alp Cet	2.5260	3100.0	80	48753	No
39	GOM_TRA_1PNPDE20110627_033049_000000493104_00033_48754_8746.N1	27-JUN-2011 03:30:49	Dark	48.500	84	Alp Phe	2.3970	4500.0	97	48754	No
40	GOM_TRA_1PNPDE20110627_033718_000000513104_00033_48754_8747.N1	27-JUN-2011 03:37:18	Straylight	51.000	63	Bet Gru	2.1500	2800.0	102	48754	No
41	GOM_TRA_1PNPDE20110627_033917_000000553104_00033_48754_8748.N1	27-JUN-2011 03:39:17	Straylight	55.000	31	Alp Gru	1.7340	15200.	110	48754	No
42	GOM_TRA_1PNPDE20110627_034158_000000443104_00033_48754_8749.N1	27-JUN-2011 03:41:58	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	48754	No
43	GOM_TRA_1PNPDE20110627_035055_000000453104_00033_48754_8750.N1	27-JUN-2011 03:50:55	Twi_and_stray	44.500	38	20Eps Sgr	1.8360	11000.	89	48754	No
44	GOM_TRA_1PNPDE20110627_035217_000000433104_00033_48754_8751.N1	27-JUN-2011 03:52:17	Bright	43.000	116	19Del Sgr	2.7000	4100.0	86	48754	No
45	GOM_TRA_1PNPDE20110627_035423_000000473104_00033_48754_8752.N1	27-JUN-2011 03:54:23	Bright	47.000	155	41Pi Sgr	2.9000	6600.0	94	48754	No
46	GOM_TRA_1PNPDE20110627_040253_000000383104_00033_48754_8753.N1	27-JUN-2011 04:02:53	Bright	38.000	126	60Bet Oph	2.7700	4250.0	76	48754	No
47	GOM_TRA_1PNPDE20110627_040514_000000403104_00033_48754_8754.N1	27-JUN-2011 04:05:14	Bright	39.500	59	55Alp Oph	2.0800	8900.0	79	48754	No
48	GOM_TRA_1PNPDE20110627_041421_000000463104_00033_48754_8755.N1	27-JUN-2011 04:14:21	Bright	46.000	5	3Alp Lyr	0.033000	11000.	92	48754	No
49	GOM_TRA_1PNPDE20110627_041643_000000353104_00033_48754_8756.N1	27-JUN-2011 04:16:43	Bright	35.000	130	23Bet Dra	2.7990	5800.0	70	48754	No
50	GOM_TRA_1PNPDE20110627_042557_000000463104_00033_48754_8757.N1	27-JUN-2011 04:25:57	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	48754	No
51	GOM_TRA_1PNPDE20110627_043308_000000693104_00033_48754_8757.N1	27-JUN-2011 04:33:08	Bright	69.000	74	11Bet Cas	2.2680	6600.0	138	48754	No
52	GOM_TRA_1PNPDE20110627_043446_000000473104_00033_48754_8758.N1	27-JUN-2011 04:34:46	Bright	47.000	68	18Alp Cas	2.2250	4500.0	94	48754	No
53	GOM_TRA_1PNPDE20110627_043726_000000553104_00033_48754_8759.N1	27-JUN-2011 04:37:26	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	48754	No
54	GOM_TRA_1PNPDE20110627_044049_000000483104_00033_48754_8760.N1	27-JUN-2011 04:40:49	Bright	47.500	73	57Gam1And	2.2600	13100.	95	48754	No
55	GOM_TRA_1PNPDE20110627_044321_000000493104_00033_48754_8761.N1	27-JUN-2011 04:43:21	Twi_and_stray	49.000	173	4Bet Tri	3.0040	8900.0	98	48754	No
56	GOM_TRA_1PNPDE20110627_044724_000000563104_00033_48754_8762.N1	27-JUN-2011 04:47:24	Dark	56.000	50	13Alp Ari	2.0070	4250.0	112	48754	No
57	GOM_TRA_1PNPDE20110627_045219_000000393104_00033_48754_8763.N1	27-JUN-2011 04:52:19	Dark	38.500	94	92Alp Cet	2.5260	3100.0	77	48754	No
58	GOM_TRA_1PNPDE20110627_051104_000000473104_00034_48755_8764.N1	27-JUN-2011 05:11:04	Dark	46.500	84	Alp Phe	2.3970	4500.0	93	48755	No
59	GOM_TRA_1PNPDE20110627_051733_000000553104_00034_48755_8765.N1	27-JUN-2011 05:17:33	Straylight	54.500	63	Bet Gru	2.1500	2800.0	109	48755	No
60	GOM_TRA_1PNPDE20110627_051932_000000493104_00034_48755_8766.N1	27-JUN-2011 05:19:32	Straylight	49.000	31	Alp Gru	1.7340	15200.	98	48755	No
61	GOM_TRA_1PNPDE20110627_052213_000000433104_00034_48755_8767.N1	27-JUN-2011 05:22:13	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	48755	No
62	GOM_TRA_1PNPDE20110627_053109_000000453104_00034_48755_8768.N1	27-JUN-2011 05:31:09	Twi_and_stray	45.000	38	20Eps Sgr	1.8360	11000.	90	48755	No
63	GOM_TRA_1PNPDE20110627_053231_000000573104_00034_48755_8769.N1	27-JUN-2011 05:32:31	Bright	57.000	116	19Del Sgr	2.7000	4100.0	114	48755	No
64	GOM_TRA_1PNPDE20110627_053438_000000473104_00034_48755_8770.N1	27-JUN-2011 05:34:38	Bright	47.000	155	41Pi Sgr	2.9000	6600.0	94	48755	No
65	GOM_TRA_1PNPDE20110627_054307_000000393104_00034_48755_8771.N1	27-JUN-2011 05:43:07	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	48755	No
66	GOM_TRA_1PNPDE20110627_054528_000000383104_00034_48755_8772.N1	27-JUN-2011 05:45:28	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	48755	No
67	GOM_TRA_1PNPDE20110627_055435_000000463104_00034_48755_8773.N1	27-JUN-2011 05:54:35	Bright	46.000	5	3Alp Lyr	0.033000	11000.	92	48755	No
68	GOM_TRA_1PNPDE20110627_055657_000000383104_00034_48755_8774.N1	27-JUN-2011 05:56:57	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	48755	No
69	GOM_TRA_1PNPDE20110627_060610_000000473104_00034_48755_8775.N1	27-JUN-2011 06:06:10	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	48755	No
70	GOM_TRA_1PNPDK20110627_061322_000000473104_00034_48755_9482.N1	27-JUN-2011 06:13:22	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	48755	No
71	GOM_TRA_1PNPDK20110627_061500_000000493104_00034_48755_9483.N1	27-JUN-2011 06:15:00	Bright	48.500	68	18Alp Cas	2.2250	4500.0	97	48755	No

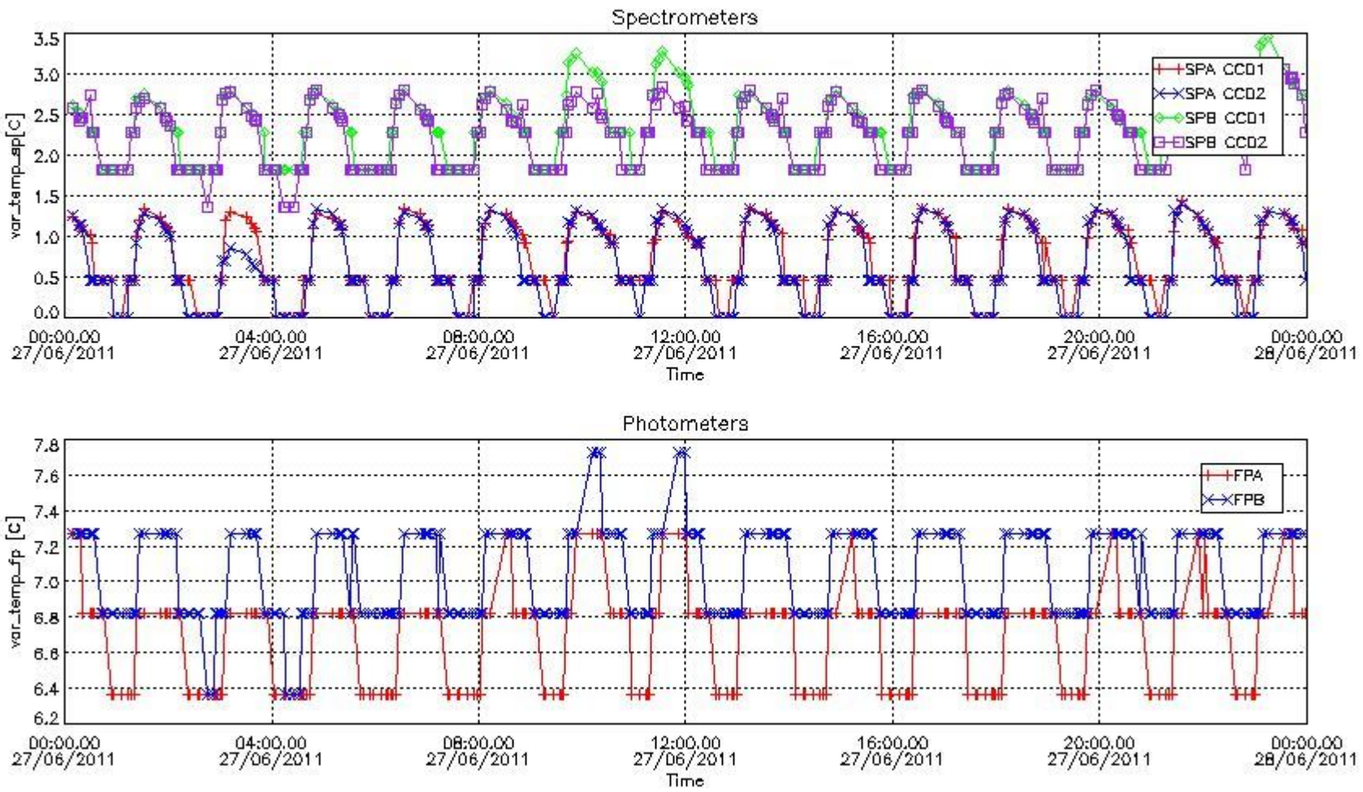
72	GOM_TRA_1PNPDK20110627_061740_000000503104_00034_48755_9484.N1	27-JUN-2011 06:17:40	Bright	49.500	160	23Gam Per	2.9300	4700.0	99	48755	No
73	GOM_TRA_1PNPDK20110627_062103_000000483104_00034_48755_9485.N1	27-JUN-2011 06:21:03	Bright	48.000	73	57Gam1And	2.2600	13100.	96	48755	No
74	GOM_TRA_1PNPDK20110627_062335_000000493104_00034_48755_9486.N1	27-JUN-2011 06:23:35	Twi_and_stray	48.500	173	4Bet Tri	3.0040	8900.0	97	48755	No
75	GOM_TRA_1PNPDK20110627_062739_000000533104_00034_48755_9487.N1	27-JUN-2011 06:27:39	Dark	53.000	50	13Alp Ari	2.0070	4250.0	106	48755	No
76	GOM_TRA_1PNPDK20110627_063233_000000473104_00034_48755_9488.N1	27-JUN-2011 06:32:33	Dark	47.000	94	92Alp Cet	2.5260	3100.0	94	48755	No
77	GOM_TRA_1PNPDK20110627_065120_000000473104_00035_48756_9489.N1	27-JUN-2011 06:51:20	Dark	46.500	84	Alp Phe	2.3970	4500.0	93	48756	No
78	GOM_TRA_1PNPDK20110627_065748_000000533104_00035_48756_9490.N1	27-JUN-2011 06:57:48	Straylight	53.000	63	Bet Gru	2.1500	2800.0	106	48756	No
79	GOM_TRA_1PNPDK20110627_065947_000000503104_00035_48756_9491.N1	27-JUN-2011 06:59:47	Straylight	49.500	31	Alp Gru	1.7340	15200.	99	48756	No
80	GOM_TRA_1PNPDK20110627_070227_000000413104_00035_48756_9492.N1	27-JUN-2011 07:02:27	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	48756	No
81	GOM_TRA_1PNPDK20110627_071123_000000463104_00035_48756_9493.N1	27-JUN-2011 07:11:23	Twi_and_stray	46.000	38	20Eps Sgr	1.8360	11000.	92	48756	No
82	GOM_TRA_1PNPDK20110627_071246_000000473104_00035_48756_9494.N1	27-JUN-2011 07:12:46	Bright	46.500	116	19Del Sgr	2.7000	4100.0	93	48756	No
83	GOM_TRA_1PNPDK20110627_071452_000000473104_00035_48756_9495.N1	27-JUN-2011 07:14:52	Bright	47.000	155	41Pi Sgr	2.9000	6600.0	94	48756	No
84	GOM_TRA_1PNPDK20110627_072322_000000383104_00035_48756_9544.N1	27-JUN-2011 07:23:22	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	48756	No
85	GOM_TRA_1PNPDK20110627_072542_000000383104_00035_48756_9545.N1	27-JUN-2011 07:25:42	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	48756	No
86	GOM_TRA_1PNPDK20110627_073448_000000473104_00035_48756_9546.N1	27-JUN-2011 07:34:48	Bright	47.000	5	3Alp Lyr	0.033000	11000.	94	48756	No
87	GOM_TRA_1PNPDK20110627_073711_000000393104_00035_48756_9547.N1	27-JUN-2011 07:37:11	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	48756	No
88	GOM_TRA_1PNPDK20110627_074623_000000443104_00035_48756_9548.N1	27-JUN-2011 07:46:23	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	48756	No
89	GOM_TRA_1PNPDK20110627_075335_000000483104_00035_48756_9549.N1	27-JUN-2011 07:53:35	Bright	48.000	74	11Bet Cas	2.2680	6600.0	96	48756	No
90	GOM_TRA_1PNPDK20110627_075513_000000503104_00035_48756_9550.N1	27-JUN-2011 07:55:13	Bright	49.500	68	18Alp Cas	2.2250	4500.0	99	48756	No
91	GOM_TRA_1PNPDK20110627_075754_000000553104_00035_48756_9551.N1	27-JUN-2011 07:57:54	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	48756	No
92	GOM_TRA_1PNPDK20110627_080117_000000453104_00035_48756_9552.N1	27-JUN-2011 08:01:17	Bright	45.000	73	57Gam1And	2.2600	13100.	90	48756	No
93	GOM_TRA_1PNPDK20110627_080349_000000493104_00035_48756_9553.N1	27-JUN-2011 08:03:49	Twi_and_stray	48.500	173	4Bet Tri	3.0040	8900.0	97	48756	No
94	GOM_TRA_1PNPDK20110627_080753_000000533104_00035_48756_9554.N1	27-JUN-2011 08:07:53	Dark	53.000	50	13Alp Ari	2.0070	4250.0	106	48756	No
95	GOM_TRA_1PNPDK20110627_081247_000000473104_00035_48756_9555.N1	27-JUN-2011 08:12:47	Dark	47.000	94	92Alp Cet	2.5260	3100.0	94	48756	No
96	GOM_TRA_1PNPDK20110627_083134_000000593104_00036_48757_9556.N1	27-JUN-2011 08:31:34	Dark	58.500	84	Alp Phe	2.3970	4500.0	117	48757	No
97	GOM_TRA_1PNPDK20110627_083803_000000653104_00036_48757_9557.N1	27-JUN-2011 08:38:03	Straylight	65.000	63	Bet Gru	2.1500	2800.0	130	48757	No
98	GOM_TRA_1PNPDK20110627_084002_000000503104_00036_48757_9558.N1	27-JUN-2011 08:40:02	Straylight	49.500	31	Alp Gru	1.7340	15200.	99	48757	No
99	GOM_TRA_1PNPDK20110627_084242_000000453104_00036_48757_9559.N1	27-JUN-2011 08:42:42	Straylight	44.500	45	Alp Pav	1.9400	26000.	89	48757	No
100	GOM_TRA_1PNPDK20110627_085138_000000423104_00036_48757_9560.N1	27-JUN-2011 08:51:38	Twi_and_stray	42.000	38	20Eps Sgr	1.8360	11000.	84	48757	No
101	GOM_TRA_1PNPDK20110627_085300_000000413104_00036_48757_9561.N1	27-JUN-2011 08:53:00	Bright	41.000	116	19Del Sgr	2.7000	4100.0	82	48757	No
102	GOM_TRA_1PNPDK20110627_085506_000000463104_00036_48757_9562.N1	27-JUN-2011 08:55:06	Bright	46.000	155	41Pi Sgr	2.9000	6600.0	92	48757	No
103	GOM_TRA_1PNPDK20110627_090335_000000383104_00036_48757_9581.N1	27-JUN-2011 09:03:35	Bright	38.000	126	60Bet Oph	2.7700	4250.0	76	48757	No
104	GOM_TRA_1PNPDK20110627_090556_000000393104_00036_48757_9582.N1	27-JUN-2011 09:05:56	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	48757	No
105	GOM_TRA_1PNPDK20110627_091502_000000463104_00036_48757_9583.N1	27-JUN-2011 09:15:02	Bright	46.000	5	3Alp Lyr	0.033000	11000.	92	48757	No
106	GOM_TRA_1PNPDK20110627_091725_000000393104_00036_48757_9584.N1	27-JUN-2011 09:17:25	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	48757	No
107	GOM_TRA_1PNPDK20110627_092637_000000473104_00036_48757_9585.N1	27-JUN-2011 09:26:37	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	48757	No
108	GOM_TRA_1PNPDK20110627_093349_000000483104_00036_48757_9586.N1	27-JUN-2011 09:33:49	Bright	48.000	74	11Bet Cas	2.2680	6600.0	96	48757	No
109	GOM_TRA_1PNPDK20110627_093527_000000503104_00036_48757_9587.N1	27-JUN-2011 09:35:27	Bright	49.500	68	18Alp Cas	2.2250	4500.0	99	48757	No
110	GOM_TRA_1PNPDK20110627_093808_000000553104_00036_48757_9588.N1	27-JUN-2011 09:38:08	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	48757	No
111	GOM_TRA_1PNPDK20110627_094131_000000443104_00036_48757_9589.N1	27-JUN-2011 09:41:31	Bright	44.000	73	57Gam1And	2.2600	13100.	88	48757	No
112	GOM_TRA_1PNPDK20110627_094403_000000473104_00036_48757_9590.N1	27-JUN-2011 09:44:03	Twi_and_stray	47.000	173	4Bet Tri	3.0040	8900.0	94	48757	No
113	GOM_TRA_1PNPDK20110627_094807_000000573104_00036_48757_9591.N1	27-JUN-2011 09:48:07	Dark	56.500	50	13Alp Ari	2.0070	4250.0	113	48757	No
114	GOM_TRA_1PNPDK20110627_095302_000000493104_00036_48757_9592.N1	27-JUN-2011 09:53:02	Dark	48.500	94	92Alp Cet	2.5260	3100.0	97	48757	No
115	GOM_TRA_1PNPDK20110627_101150_000000483104_00037_48758_9593.N1	27-JUN-2011 10:11:50	Dark	48.000	84	Alp Phe	2.3970	4500.0	96	48758	No
116	GOM_TRA_1PNPDK20110627_101818_000000523104_00037_48758_9594.N1	27-JUN-2011 10:18:18	Straylight	52.000	63	Bet Gru	2.1500	2800.0	104	48758	No
117	GOM_TRA_1PNPDK20110627_102017_000000513104_00037_48758_9595.N1	27-JUN-2011 10:20:17	Straylight	50.500	31	Alp Gru	1.7340	15200.	101	48758	No
118	GOM_TRA_1PNPDK20110627_102256_000000433104_00037_48758_9596.N1	27-JUN-2011 10:22:56	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	48758	No
119	GOM_TRA_1PNPDK20110627_103152_000000473104_00037_48758_9597.N1	27-JUN-2011 10:31:52	Twi_and_stray	46.500	38	20Eps Sgr	1.8360	11000.	93	48758	No
120	GOM_TRA_1PNPDK20110627_103314_000000503104_00037_48758_9598.N1	27-JUN-2011 10:33:14	Bright	50.000	116	19Del Sgr	2.7000	4100.0	100	48758	No
121	GOM_TRA_1PNPDK20110627_103520_000000473104_00037_48758_9599.N1	27-JUN-2011 10:35:20	Bright	46.500	155	41Pi Sgr	2.9000	6600.0	93	48758	No
122	GOM_TRA_1PNPDK20110627_104349_000000393104_00037_48758_9614.N1	27-JUN-2011 10:43:49	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	48758	No
123	GOM_TRA_1PNPDK20110627_104610_000000383104_00037_48758_9615.N1	27-JUN-2011 10:46:10	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	48758	No
124	GOM_TRA_1PNPDK20110627_105515_000000493104_00037_48758_9616.N1	27-JUN-2011 10:55:15	Bright	49.000	5	3Alp Lyr	0.033000	11000.	98	48758	No
125	GOM_TRA_1PNPDK20110627_105739_000000383104_00037_48758_9617.N1	27-JUN-2011 10:57:39	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	48758	No
126	GOM_TRA_1PNPDK20110627_110650_000000473104_00037_48758_9618.N1	27-JUN-2011 11:06:50	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	48758	No
127	GOM_TRA_1PNPDK20110627_111402_000000523104_00037_48758_9619.N1	27-JUN-2011 11:14:02	Bright	51.500	74	11Bet Cas	2.2680	6600.0	103	48758	No
128	GOM_TRA_1PNPDK20110627_111540_000000483104_00037_48758_9620.N1	27-JUN-2011 11:15:40	Bright	47.500	68	18Alp Cas	2.2250	4500.0	95	48758	No
129	GOM_TRA_1PNPDK20110627_111822_000000363104_00037_48758_9621.N1	27-JUN-2011 11:18:22	Bright	35.500	160	23Gam Per	2.9300	4700.0	71	48758	No
130	GOM_TRA_1PNPDK20110627_112145_000000483104_00037_48758_9622.N1	27-JUN-2011 11:21:45	Bright	48.000	73	57Gam1And	2.2600	13100.	96	48758	No

131	GOM_TRA_1PNPDK20110627_112417_000000483104_00037_48758_9623.N1	27-JUN-2011 11:24:17	Twi_and_stray	47.500	173	4Bet Tri	3.0040	8900.0	95	48758	No
132	GOM_TRA_1PNPDK20110627_112821_000000563104_00037_48758_9624.N1	27-JUN-2011 11:28:21	Dark	55.500	50	13Alp Ari	2.0070	4250.0	111	48758	No
133	GOM_TRA_1PNPDK20110627_113316_000000483104_00037_48758_9625.N1	27-JUN-2011 11:33:16	Dark	47.500	94	92Alp Cet	2.5260	3100.0	95	48758	No
134	GOM_TRA_1PNPDK20110627_115204_000000533104_00038_48759_9626.N1	27-JUN-2011 11:52:04	Dark	52.500	84	Alp Phe	2.3970	4500.0	105	48759	No
135	GOM_TRA_1PNPDK20110627_115833_000000533104_00038_48759_9627.N1	27-JUN-2011 11:58:33	Straylight	52.500	63	Bet Gru	2.1500	2800.0	105	48759	No
136	GOM_TRA_1PNPDK20110627_120032_000000553104_00038_48759_9628.N1	27-JUN-2011 12:00:32	Straylight	55.000	31	Alp Gru	1.7340	15200.	110	48759	No
137	GOM_TRA_1PNPDK20110627_120311_000000423104_00038_48759_9629.N1	27-JUN-2011 12:03:11	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	48759	No
138	GOM_TRA_1PNPDK20110627_121206_000000443104_00038_48759_9630.N1	27-JUN-2011 12:12:06	Twi_and_stray	43.500	38	20Eps Sgr	1.8360	11000.	87	48759	No
139	GOM_TRA_1PNPDK20110627_121329_000000443104_00038_48759_9631.N1	27-JUN-2011 12:13:29	Bright	44.000	116	19Del Sgr	2.7000	4100.0	88	48759	No
140	GOM_TRA_1PNPDK20110627_121534_000000473104_00038_48759_9632.N1	27-JUN-2011 12:15:34	Bright	46.500	155	41Pi Sgr	2.9000	6600.0	93	48759	No
141	GOM_TRA_1PNPDK20110627_122403_000000393104_00038_48759_9655.N1	27-JUN-2011 12:24:03	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	48759	No
142	GOM_TRA_1PNPDK20110627_122624_000000373104_00038_48759_9656.N1	27-JUN-2011 12:26:24	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	48759	No
143	GOM_TRA_1PNPDK20110627_123529_000000423104_00038_48759_9657.N1	27-JUN-2011 12:35:29	Bright	42.000	5	3Alp Lyr	0.033000	11000.	84	48759	No
144	GOM_TRA_1PNPDK20110627_123752_000000403104_00038_48759_9658.N1	27-JUN-2011 12:37:52	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	48759	No
145	GOM_TRA_1PNPDK20110627_124703_000000453104_00038_48759_9659.N1	27-JUN-2011 12:47:03	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	48759	No
146	GOM_TRA_1PNPDK20110627_125416_000000483104_00038_48759_9660.N1	27-JUN-2011 12:54:16	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	48759	No
147	GOM_TRA_1PNPDK20110627_125554_000000483104_00038_48759_9661.N1	27-JUN-2011 12:55:54	Bright	48.000	68	18Alp Cas	2.2250	4500.0	96	48759	No
148	GOM_TRA_1PNPDK20110627_125836_000000523104_00038_48759_9662.N1	27-JUN-2011 12:58:36	Bright	51.500	160	23Gam Per	2.9300	4700.0	103	48759	No
149	GOM_TRA_1PNPDK20110627_130159_000000483104_00038_48759_9663.N1	27-JUN-2011 13:01:59	Bright	48.000	73	57Gam1And	2.2600	13100.	96	48759	No
150	GOM_TRA_1PNPDK20110627_130431_000000493104_00038_48759_9664.N1	27-JUN-2011 13:04:31	Twi_and_stray	49.000	173	4Bet Tri	3.0040	8900.0	98	48759	No
151	GOM_TRA_1PNPDK20110627_130835_000000593104_00038_48759_9665.N1	27-JUN-2011 13:08:35	Dark	58.500	50	13Alp Ari	2.0070	4250.0	117	48759	No
152	GOM_TRA_1PNPDK20110627_131330_000000473104_00038_48759_9666.N1	27-JUN-2011 13:13:30	Dark	47.000	94	92Alp Cet	2.5260	3100.0	94	48759	No
153	GOM_TRA_1PNPDK20110627_133219_000000523104_00039_48760_9667.N1	27-JUN-2011 13:32:19	Dark	51.500	84	Alp Phe	2.3970	4500.0	103	48760	No
154	GOM_TRA_1PNPDK20110627_133848_000000523104_00039_48760_9668.N1	27-JUN-2011 13:38:48	Straylight	52.000	63	Bet Gru	2.1500	2800.0	104	48760	No
155	GOM_TRA_1PNPDK20110627_134046_000000503104_00039_48760_9669.N1	27-JUN-2011 13:40:46	Straylight	49.500	31	Alp Gru	1.7340	15200.	99	48760	No
156	GOM_TRA_1PNPDK20110627_134325_000000423104_00039_48760_9670.N1	27-JUN-2011 13:43:25	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	48760	No
157	GOM_TRA_1PNPDK20110627_135220_000000433104_00039_48760_9671.N1	27-JUN-2011 13:52:20	Twi_and_stray	43.000	38	20Eps Sgr	1.8360	11000.	86	48760	No
158	GOM_TRA_1PNPDK20110627_135343_000000473104_00039_48760_9672.N1	27-JUN-2011 13:53:43	Bright	47.000	116	19Del Sgr	2.7000	4100.0	94	48760	No
159	GOM_TRA_1PNPDK20110627_135549_000000473104_00039_48760_9673.N1	27-JUN-2011 13:55:49	Bright	46.500	155	41Pi Sgr	2.9000	6600.0	93	48760	No
160	GOM_TRA_1PNPDK20110627_140417_000000393104_00039_48760_9704.N1	27-JUN-2011 14:04:17	Bright	39.000	126	60Bet Oph	2.7700	4250.0	78	48760	No
161	GOM_TRA_1PNPDK20110627_140638_000000393104_00039_48760_9705.N1	27-JUN-2011 14:06:38	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	48760	No
162	GOM_TRA_1PNPDK20110627_141542_000000453104_00039_48760_9706.N1	27-JUN-2011 14:15:42	Bright	45.000	5	3Alp Lyr	0.033000	11000.	90	48760	No
163	GOM_TRA_1PNPDK20110627_141806_000000373104_00039_48760_9707.N1	27-JUN-2011 14:18:06	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	48760	No
164	GOM_TRA_1PNPDK20110627_142717_000000483104_00039_48760_9708.N1	27-JUN-2011 14:27:17	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	48760	No
165	GOM_TRA_1PNPDK20110627_143429_000000483104_00039_48760_9709.N1	27-JUN-2011 14:34:29	Bright	48.000	74	11Bet Cas	2.2680	6600.0	96	48760	No
166	GOM_TRA_1PNPDK20110627_143608_000000463104_00039_48760_9710.N1	27-JUN-2011 14:36:08	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	48760	No
167	GOM_TRA_1PNPDK20110627_143850_000000353104_00039_48760_9711.N1	27-JUN-2011 14:38:50	Bright	35.000	160	23Gam Per	2.9300	4700.0	70	48760	No
168	GOM_TRA_1PNPDK20110627_144213_000000493104_00039_48760_9712.N1	27-JUN-2011 14:42:13	Bright	48.500	73	57Gam1And	2.2600	13100.	97	48760	No
169	GOM_TRA_1PNPDK20110627_144445_000000503104_00039_48760_9713.N1	27-JUN-2011 14:44:45	Twi_and_stray	49.500	173	4Bet Tri	3.0040	8900.0	99	48760	No
170	GOM_TRA_1PNPDK20110627_144850_000000543104_00039_48760_9714.N1	27-JUN-2011 14:48:50	Dark	54.000	50	13Alp Ari	2.0070	4250.0	108	48760	No
171	GOM_TRA_1PNPDK20110627_145345_000000503104_00039_48760_9715.N1	27-JUN-2011 14:53:45	Dark	49.500	94	92Alp Cet	2.5260	3100.0	99	48760	No
172	GOM_TRA_1PNPDK20110627_151234_000000493104_00040_48761_9716.N1	27-JUN-2011 15:12:34	Dark	49.000	84	Alp Phe	2.3970	4500.0	98	48761	No
173	GOM_TRA_1PNPDK20110627_151903_000000553104_00040_48761_9717.N1	27-JUN-2011 15:19:03	Straylight	54.500	63	Bet Gru	2.1500	2800.0	109	48761	No
174	GOM_TRA_1PNPDK20110627_152102_000000483104_00040_48761_9718.N1	27-JUN-2011 15:21:02	Straylight	47.500	31	Alp Gru	1.7340	15200.	95	48761	No
175	GOM_TRA_1PNPDK20110627_152339_000000433104_00040_48761_9719.N1	27-JUN-2011 15:23:39	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	48761	No
176	GOM_TRA_1PNPDK20110627_153235_000000473104_00040_48761_9720.N1	27-JUN-2011 15:32:35	Twi_and_stray	46.500	38	20Eps Sgr	1.8360	11000.	93	48761	No
177	GOM_TRA_1PNPDK20110627_153357_000000523104_00040_48761_9721.N1	27-JUN-2011 15:33:57	Bright	52.000	116	19Del Sgr	2.7000	4100.0	104	48761	No
178	GOM_TRA_1PNPDK20110627_153603_000000473104_00040_48761_9742.N1	27-JUN-2011 15:36:03	Bright	47.000	155	41Pi Sgr	2.9000	6600.0	94	48761	No
179	GOM_TRA_1PNPDK20110627_154431_000000393104_00040_48761_9743.N1	27-JUN-2011 15:44:31	Bright	39.000	126	60Bet Oph	2.7700	4250.0	78	48761	No
180	GOM_TRA_1PNPDK20110627_154652_000000373104_00040_48761_9744.N1	27-JUN-2011 15:46:52	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	48761	No
181	GOM_TRA_1PNPDK20110627_155555_000000493104_00040_48761_9745.N1	27-JUN-2011 15:55:55	Bright	48.500	5	3Alp Lyr	0.033000	11000.	97	48761	No
182	GOM_TRA_1PNPDK20110627_155820_000000383104_00040_48761_9746.N1	27-JUN-2011 15:58:20	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	48761	No
183	GOM_TRA_1PNPDK20110627_160730_000000483104_00040_48761_9747.N1	27-JUN-2011 16:07:30	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	48761	No
184	GOM_TRA_1PNPDK20110627_161443_000000473104_00040_48761_9748.N1	27-JUN-2011 16:14:43	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	48761	No
185	GOM_TRA_1PNPDK20110627_161621_000000463104_00040_48761_9749.N1	27-JUN-2011 16:16:21	Bright	45.500	68	18Alp Cas	2.2250	4500.0	91	48761	No
186	GOM_TRA_1PNPDK20110627_161904_000000363104_00040_48761_9750.N1	27-JUN-2011 16:19:04	Bright	35.500	160	23Gam Per	2.9300	4700.0	71	48761	No
187	GOM_TRA_1PNPDK20110627_162227_000000483104_00040_48761_9751.N1	27-JUN-2011 16:22:27	Bright	47.500	73	57Gam1And	2.2600	13100.	95	48761	No
188	GOM_TRA_1PNPDK20110627_162459_000000483104_00040_48761_9752.N1	27-JUN-2011 16:24:59	Twi_and_stray	48.000	173	4Bet Tri	3.0040	8900.0	96	48761	No
189	GOM_TRA_1PNPDK20110627_162904_000000543104_00040_48761_9753.N1	27-JUN-2011 16:29:04	Dark	54.000	50	13Alp Ari	2.0070	4250.0	108	48761	No

190	GOM_TRA_1PNPDK20110627_163359_000000513104_00040_48761_9754.N1	27-JUN-2011 16:33:59	Dark	50.500	94	92Alp Cet	2.5260	3100.0	101	48761	No
191	GOM_TRA_1PNPDK20110627_165249_000000483104_00041_48762_9755.N1	27-JUN-2011 16:52:49	Dark	47.500	84	Alp Phe	2.3970	4500.0	95	48762	No
192	GOM_TRA_1PNPDK20110627_165918_000000553104_00041_48762_9756.N1	27-JUN-2011 16:59:18	Straylight	54.500	63	Bet Gru	2.1500	2800.0	109	48762	No
193	GOM_TRA_1PNPDK20110627_170116_000000503104_00041_48762_9757.N1	27-JUN-2011 17:01:16	Straylight	50.000	31	Alp Gru	1.7340	15200.	100	48762	No
194	GOM_TRA_1PNPDK20110627_170354_000000413104_00041_48762_9758.N1	27-JUN-2011 17:03:54	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	48762	No
195	GOM_TRA_1PNPDK20110627_171249_000000453104_00041_48762_9784.N1	27-JUN-2011 17:12:49	Twi_and_stray	45.000	38	20Eps Sgr	1.8360	11000.	90	48762	No
196	GOM_TRA_1PNPDK20110627_171411_000000563104_00041_48762_9785.N1	27-JUN-2011 17:14:11	Bright	56.000	116	19Del Sgr	2.7000	4100.0	112	48762	No
197	GOM_TRA_1PNPDK20110627_171617_000000473104_00041_48762_9786.N1	27-JUN-2011 17:16:17	Bright	47.000	155	41Pi Sgr	2.9000	6600.0	94	48762	No
198	GOM_TRA_1PNPDK20110627_172445_000000393104_00041_48762_9787.N1	27-JUN-2011 17:24:45	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	48762	No
199	GOM_TRA_1PNPDK20110627_172706_000000393104_00041_48762_9788.N1	27-JUN-2011 17:27:06	Bright	38.500	59	55Alp Oph	2.0800	8900.0	77	48762	No
200	GOM_TRA_1PNPDK20110627_173609_000000473104_00041_48762_9789.N1	27-JUN-2011 17:36:09	Bright	47.000	5	3Alp Lyr	0.033000	11000.	94	48762	No
201	GOM_TRA_1PNPDK20110627_173834_000000403104_00041_48762_9790.N1	27-JUN-2011 17:38:34	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	48762	No
202	GOM_TRA_1PNPDK20110627_174743_000000453104_00041_48762_9791.N1	27-JUN-2011 17:47:43	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	48762	No
203	GOM_TRA_1PNPDK20110627_175456_000000583104_00041_48762_9792.N1	27-JUN-2011 17:54:56	Bright	57.500	74	11Bet Cas	2.2680	6600.0	115	48762	No
204	GOM_TRA_1PNPDK20110627_175635_000000473104_00041_48762_9793.N1	27-JUN-2011 17:56:35	Bright	47.000	68	18Alp Cas	2.2250	4500.0	94	48762	No
205	GOM_TRA_1PNPDK20110627_175918_000000423104_00041_48762_9794.N1	27-JUN-2011 17:59:18	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	48762	No
206	GOM_TRA_1PNPDK20110627_180241_000000473104_00041_48762_9795.N1	27-JUN-2011 18:02:41	Bright	47.000	73	57Gam1And	2.2600	13100.	94	48762	No
207	GOM_TRA_1PNPDK20110627_180513_000000503104_00041_48762_9796.N1	27-JUN-2011 18:05:13	Twi_and_stray	49.500	173	4Bet Tri	3.0040	8900.0	99	48762	No
208	GOM_TRA_1PNPDK20110627_180918_000000603104_00041_48762_9797.N1	27-JUN-2011 18:09:18	Dark	60.000	50	13Alp Ari	2.0070	4250.0	120	48762	No
209	GOM_TRA_1PNPDK20110627_181414_000000453104_00041_48762_9798.N1	27-JUN-2011 18:14:14	Dark	45.000	94	92Alp Cet	2.5260	3100.0	90	48762	No
210	GOM_TRA_1PNPDK20110627_183304_000000543104_00042_48763_9799.N1	27-JUN-2011 18:33:04	Dark	54.000	84	Alp Phe	2.3970	4500.0	108	48763	No
211	GOM_TRA_1PNPDK20110627_183933_000000503104_00042_48763_9800.N1	27-JUN-2011 18:39:33	Straylight	50.000	63	Bet Gru	2.1500	2800.0	100	48763	No
212	GOM_TRA_1PNPDK20110627_184131_000000503104_00042_48763_9801.N1	27-JUN-2011 18:41:31	Straylight	49.500	31	Alp Gru	1.7340	15200.	99	48763	No
213	GOM_TRA_1PNPDK20110627_184408_000000443104_00042_48763_9802.N1	27-JUN-2011 18:44:08	Straylight	44.000	45	Alp Pav	1.9400	26000.	88	48763	No
214	GOM_TRA_1PNPDK20110627_185303_000000453104_00042_48763_9805.N1	27-JUN-2011 18:53:03	Twi_and_stray	44.500	38	20Eps Sgr	1.8360	11000.	89	48763	No
215	GOM_TRA_1PNPDK20110627_185425_000000563104_00042_48763_9806.N1	27-JUN-2011 18:54:25	Bright	56.000	116	19Del Sgr	2.7000	4100.0	112	48763	No
216	GOM_TRA_1PNPDK20110627_185631_000000483104_00042_48763_9807.N1	27-JUN-2011 18:56:31	Bright	47.500	155	41Pi Sgr	2.9000	6600.0	95	48763	No
217	GOM_TRA_1PNPDK20110627_190459_000000383104_00042_48763_9808.N1	27-JUN-2011 19:04:59	Bright	38.000	126	60Bet Oph	2.7700	4250.0	76	48763	No
218	GOM_TRA_1PNPDK20110627_190719_000000383104_00042_48763_9809.N1	27-JUN-2011 19:07:19	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	48763	No
219	GOM_TRA_1PNPDK20110627_191622_000000463104_00042_48763_9810.N1	27-JUN-2011 19:16:22	Bright	45.500	5	3Alp Lyr	0.033000	11000.	91	48763	No
220	GOM_TRA_1PNPDK20110627_191847_000000393104_00042_48763_9811.N1	27-JUN-2011 19:18:47	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	48763	No
221	GOM_TRA_1PNPDK20110627_192757_000000453104_00042_48763_9812.N1	27-JUN-2011 19:27:57	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	48763	No
222	GOM_TRA_1PNPDK20110627_193510_000000453104_00042_48763_9813.N1	27-JUN-2011 19:35:10	Bright	44.500	74	11Bet Cas	2.2680	6600.0	89	48763	No
223	GOM_TRA_1PNPDK20110627_193648_000000563104_00042_48763_9814.N1	27-JUN-2011 19:36:48	Bright	56.000	68	18Alp Cas	2.2250	4500.0	112	48763	No
224	GOM_TRA_1PNPDK20110627_193932_000000433104_00042_48763_9815.N1	27-JUN-2011 19:39:32	Bright	43.000	160	23Gam Per	2.9300	4700.0	86	48763	No
225	GOM_TRA_1PNPDK20110627_194254_000000453104_00042_48763_9816.N1	27-JUN-2011 19:42:54	Bright	45.000	73	57Gam1And	2.2600	13100.	90	48763	No
226	GOM_TRA_1PNPDK20110627_194528_000000483104_00042_48763_9817.N1	27-JUN-2011 19:45:28	Twi_and_stray	48.000	173	4Bet Tri	3.0040	8900.0	96	48763	No
227	GOM_TRA_1PNPDK20110627_194933_000000543104_00042_48763_9818.N1	27-JUN-2011 19:49:33	Dark	54.000	50	13Alp Ari	2.0070	4250.0	108	48763	No
228	GOM_TRA_1PNPDK20110627_195428_000000443104_00042_48763_9819.N1	27-JUN-2011 19:54:28	Dark	44.000	94	92Alp Cet	2.5260	3100.0	88	48763	No
229	GOM_TRA_1PNPDK20110627_201319_000000573104_00043_48764_9820.N1	27-JUN-2011 20:13:19	Dark	57.000	84	Alp Phe	2.3970	4500.0	114	48764	No
230	GOM_TRA_1PNPDK20110627_201948_000000643104_00043_48764_9821.N1	27-JUN-2011 20:19:48	Straylight	63.500	63	Bet Gru	2.1500	2800.0	127	48764	No
231	GOM_TRA_1PNPDK20110627_202146_000000503104_00043_48764_9822.N1	27-JUN-2011 20:21:46	Straylight	50.000	31	Alp Gru	1.7340	15200.	100	48764	No
232	GOM_TRA_1PNPDK20110627_202423_000000413104_00043_48764_9823.N1	27-JUN-2011 20:24:23	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	48764	No
233	GOM_TRA_1PNPDE20110627_203317_000000443104_00043_48764_8870.N1	27-JUN-2011 20:33:17	Twi_and_stray	43.500	38	20Eps Sgr	1.8360	11000.	87	48764	No
234	GOM_TRA_1PNPDE20110627_203440_000000563104_00043_48764_8871.N1	27-JUN-2011 20:34:40	Bright	56.000	116	19Del Sgr	2.7000	4100.0	112	48764	No
235	GOM_TRA_1PNPDE20110627_203645_000000473104_00043_48764_8872.N1	27-JUN-2011 20:36:45	Bright	46.500	155	41Pi Sgr	2.9000	6600.0	93	48764	No
236	GOM_TRA_1PNPDE20110627_204513_000000383104_00043_48764_8873.N1	27-JUN-2011 20:45:13	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	48764	No
237	GOM_TRA_1PNPDE20110627_204733_000000393104_00043_48764_8874.N1	27-JUN-2011 20:47:33	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	48764	No
238	GOM_TRA_1PNPDE20110627_205636_000000443104_00043_48764_8875.N1	27-JUN-2011 20:56:36	Bright	44.000	5	3Alp Lyr	0.033000	11000.	88	48764	No
239	GOM_TRA_1PNPDE20110627_205901_000000393104_00043_48764_8876.N1	27-JUN-2011 20:59:01	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	48764	No
240	GOM_TRA_1PNPDE20110627_210810_000000483104_00043_48764_8877.N1	27-JUN-2011 21:08:10	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	48764	No
241	GOM_TRA_1PNPDE20110627_211523_000000643104_00043_48764_8878.N1	27-JUN-2011 21:15:23	Bright	64.000	74	11Bet Cas	2.2680	6600.0	128	48764	No
242	GOM_TRA_1PNPDE20110627_211702_000000493104_00043_48764_8879.N1	27-JUN-2011 21:17:02	Bright	49.000	68	18Alp Cas	2.2250	4500.0	98	48764	No
243	GOM_TRA_1PNPDE20110627_211946_000000363104_00043_48764_8880.N1	27-JUN-2011 21:19:46	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	48764	No
244	GOM_TRA_1PNPDE20110627_212308_000000473104_00043_48764_8881.N1	27-JUN-2011 21:23:08	Bright	46.500	73	57Gam1And	2.2600	13100.	93	48764	No
245	GOM_TRA_1PNPDE20110627_212542_000000473104_00043_48764_8882.N1	27-JUN-2011 21:25:42	Twi_and_stray	46.500	173	4Bet Tri	3.0040	8900.0	93	48764	No
246	GOM_TRA_1PNPDE20110627_212947_000000563104_00043_48764_8883.N1	27-JUN-2011 21:29:47	Dark	55.500	50	13Alp Ari	2.0070	4250.0	111	48764	No
247	GOM_TRA_1PNPDE20110627_213442_000000433104_00043_48764_8884.N1	27-JUN-2011 21:34:42	Dark	42.500	94	92Alp Cet	2.5260	3100.0	85	48764	No
248	GOM_TRA_1PNPDE20110627_215334_000000473104_00044_48765_8891.N1	27-JUN-2011 21:53:34	Dark	47.000	84	Alp Phe	2.3970	4500.0	94	48765	No

249	GOM_TRA_1PNPDE20110627_220003_000000523104_00044_48765_8892.N1	27-JUN-2011 22:00:03	Straylight	51.500	63	Bet Gru	2.1500	2800.0	103	48765	No
250	GOM_TRA_1PNPDE20110627_220201_000000503104_00044_48765_8893.N1	27-JUN-2011 22:02:01	Straylight	49.500	31	Alp Gru	1.7340	15200.	99	48765	No
251	GOM_TRA_1PNPDE20110627_220437_000000413104_00044_48765_8894.N1	27-JUN-2011 22:04:37	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	48765	No
252	GOM_TRA_1PNPDE20110627_221332_000000413104_00044_48765_8895.N1	27-JUN-2011 22:13:32	Twi_and_stray	41.000	38	20Eps Sgr	1.8360	11000.	82	48765	No
253	GOM_TRA_1PNPDE20110627_221454_000000463104_00044_48765_8896.N1	27-JUN-2011 22:14:54	Bright	45.500	116	19Del Sgr	2.7000	4100.0	91	48765	No
254	GOM_TRA_1PNPDE20110627_221659_000000473104_00044_48765_8897.N1	27-JUN-2011 22:16:59	Bright	47.000	155	41Pi Sgr	2.9000	6600.0	94	48765	No
255	GOM_TRA_1PNPDE20110627_222527_000000383104_00044_48765_8898.N1	27-JUN-2011 22:25:27	Bright	38.000	126	60Bet Oph	2.7700	4250.0	76	48765	No
256	GOM_TRA_1PNPDE20110627_222747_000000383104_00044_48765_8899.N1	27-JUN-2011 22:27:47	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	48765	No
257	GOM_TRA_1PNPDE20110627_223649_000000483104_00044_48765_8900.N1	27-JUN-2011 22:36:49	Bright	48.000	5	3Alp Lyr	0.033000	11000.	96	48765	No
258	GOM_TRA_1PNPDE20110627_223915_000000363104_00044_48765_8901.N1	27-JUN-2011 22:39:15	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	48765	No
259	GOM_TRA_1PNPDE20110627_224823_000000433104_00044_48765_8902.N1	27-JUN-2011 22:48:23	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	48765	No
260	GOM_TRA_1PNPDE20110627_225537_000000693104_00044_48765_8903.N1	27-JUN-2011 22:55:37	Bright	69.000	74	11Bet Cas	2.2680	6600.0	138	48765	No
261	GOM_TRA_1PNPDE20110627_225715_000000473104_00044_48765_8904.N1	27-JUN-2011 22:57:15	Bright	47.000	68	18Alp Cas	2.2250	4500.0	94	48765	No
262	GOM_TRA_1PNPDE20110627_230000_000000553104_00044_48765_8905.N1	27-JUN-2011 23:00:00	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	48765	No
263	GOM_TRA_1PNPDE20110627_230322_000000453104_00044_48765_8906.N1	27-JUN-2011 23:03:22	Bright	45.000	73	57Gam1And	2.2600	13100.	90	48765	No
264	GOM_TRA_1PNPDE20110627_230555_000000493104_00044_48765_8907.N1	27-JUN-2011 23:05:55	Twi_and_stray	48.500	173	4Bet Tri	3.0040	8900.0	97	48765	No
265	GOM_TRA_1PNPDE20110627_231001_000000543104_00044_48765_8908.N1	27-JUN-2011 23:10:01	Dark	54.000	50	13Alp Ari	2.0070	4250.0	108	48765	No
266	GOM_TRA_1PNPDE20110627_231457_000000383104_00044_48765_8909.N1	27-JUN-2011 23:14:57	Dark	38.000	94	92Alp Cet	2.5260	3100.0	76	48765	No
267	GOM_TRA_1PNPDE20110627_233349_000000503104_00045_48766_8916.N1	27-JUN-2011 23:33:49	Dark	50.000	84	Alp Phe	2.3970	4500.0	100	48766	No
268	GOM_TRA_1PNPDE20110627_234018_000000523104_00045_48766_8917.N1	27-JUN-2011 23:40:18	Straylight	52.000	63	Bet Gru	2.1500	2800.0	104	48766	No
269	GOM_TRA_1PNPDE20110627_234216_000000493104_00045_48766_8918.N1	27-JUN-2011 23:42:16	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	48766	No
270	GOM_TRA_1PNPDE20110627_234452_000000423104_00045_48766_8919.N1	27-JUN-2011 23:44:52	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	48766	No
271	GOM_TRA_1PNPDE20110627_235346_000000473104_00045_48766_8920.N1	27-JUN-2011 23:53:46	Twi_and_stray	46.500	38	20Eps Sgr	1.8360	11000.	93	48766	No
272	GOM_TRA_1PNPDE20110627_235508_000000413104_00045_48766_8921.N1	27-JUN-2011 23:55:08	Bright	41.000	116	19Del Sgr	2.7000	4100.0	82	48766	No
273	GOM_TRA_1PNPDE20110627_235714_000000473104_00045_48766_8922.N1	27-JUN-2011 23:57:14	Bright	46.500	155	41Pi Sgr	2.9000	6600.0	93	48766	No

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



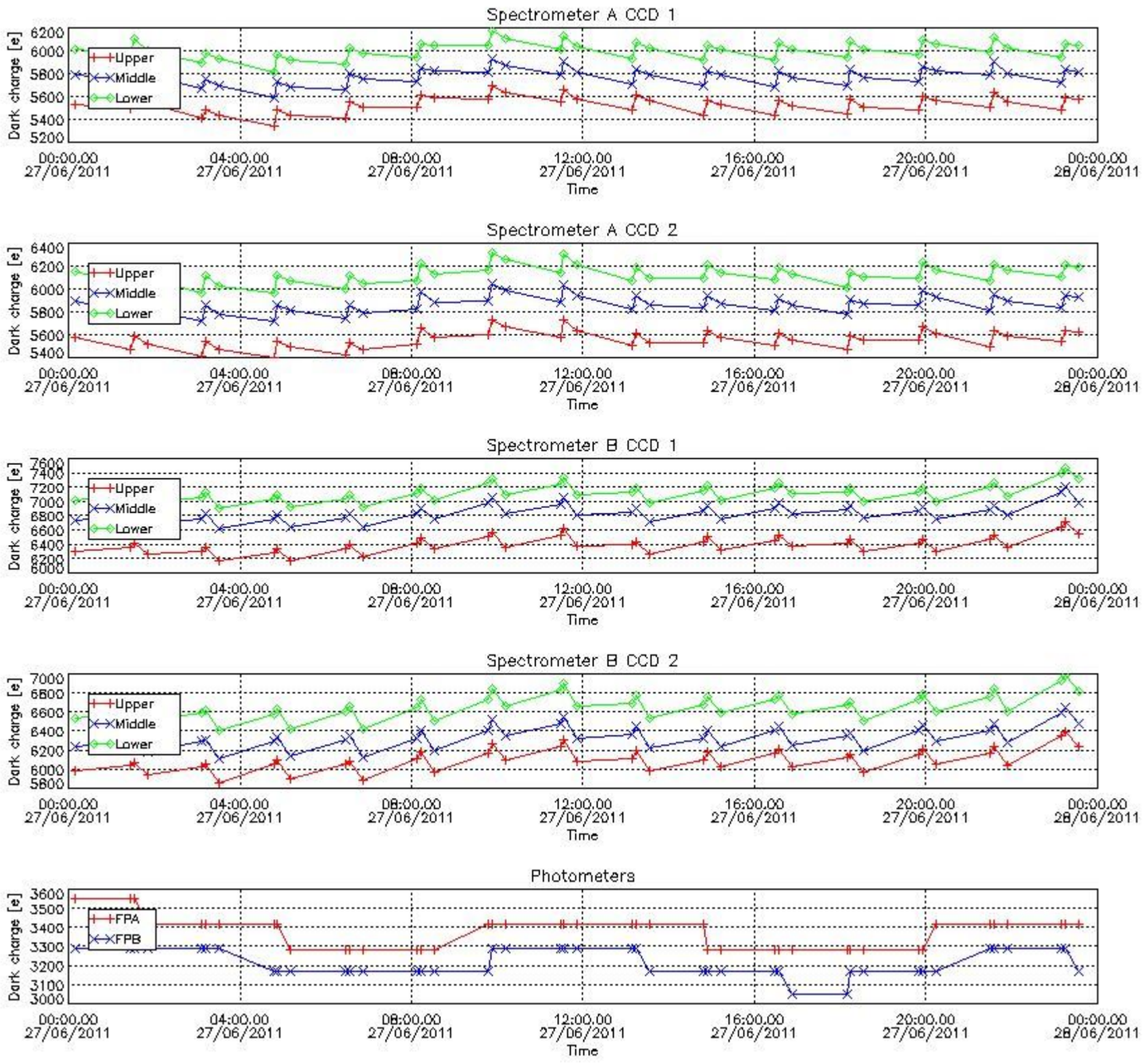
4. Overview of dark signal processing per product

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_1PNPDE20110627_203317_000000443104_00043_48764_8870.N1	DC map used
GOM_TRA_1PNPDE20110627_203440_000000563104_00043_48764_8871.N1	DC map used
GOM_TRA_1PNPDE20110627_203645_000000473104_00043_48764_8872.N1	DC map used
GOM_TRA_1PNPDE20110627_204513_000000383104_00043_48764_8873.N1	DC map used
GOM_TRA_1PNPDE20110627_204733_000000393104_00043_48764_8874.N1	DC map used
GOM_TRA_1PNPDE20110627_205636_000000443104_00043_48764_8875.N1	DC map used
GOM_TRA_1PNPDE20110627_205901_000000393104_00043_48764_8876.N1	DC map used
GOM_TRA_1PNPDE20110627_210810_000000483104_00043_48764_8877.N1	DC map used
GOM_TRA_1PNPDE20110627_211523_000000643104_00043_48764_8878.N1	DC map used
GOM_TRA_1PNPDE20110627_211702_000000493104_00043_48764_8879.N1	DC map used
GOM_TRA_1PNPDE20110627_211946_000000363104_00043_48764_8880.N1	DC map used
GOM_TRA_1PNPDE20110627_212308_000000473104_00043_48764_8881.N1	DC map used
GOM_TRA_1PNPDE20110627_212542_000000473104_00043_48764_8882.N1	DC map used
GOM_TRA_1PNPDE20110627_212947_000000563104_00043_48764_8883.N1	DC map used

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



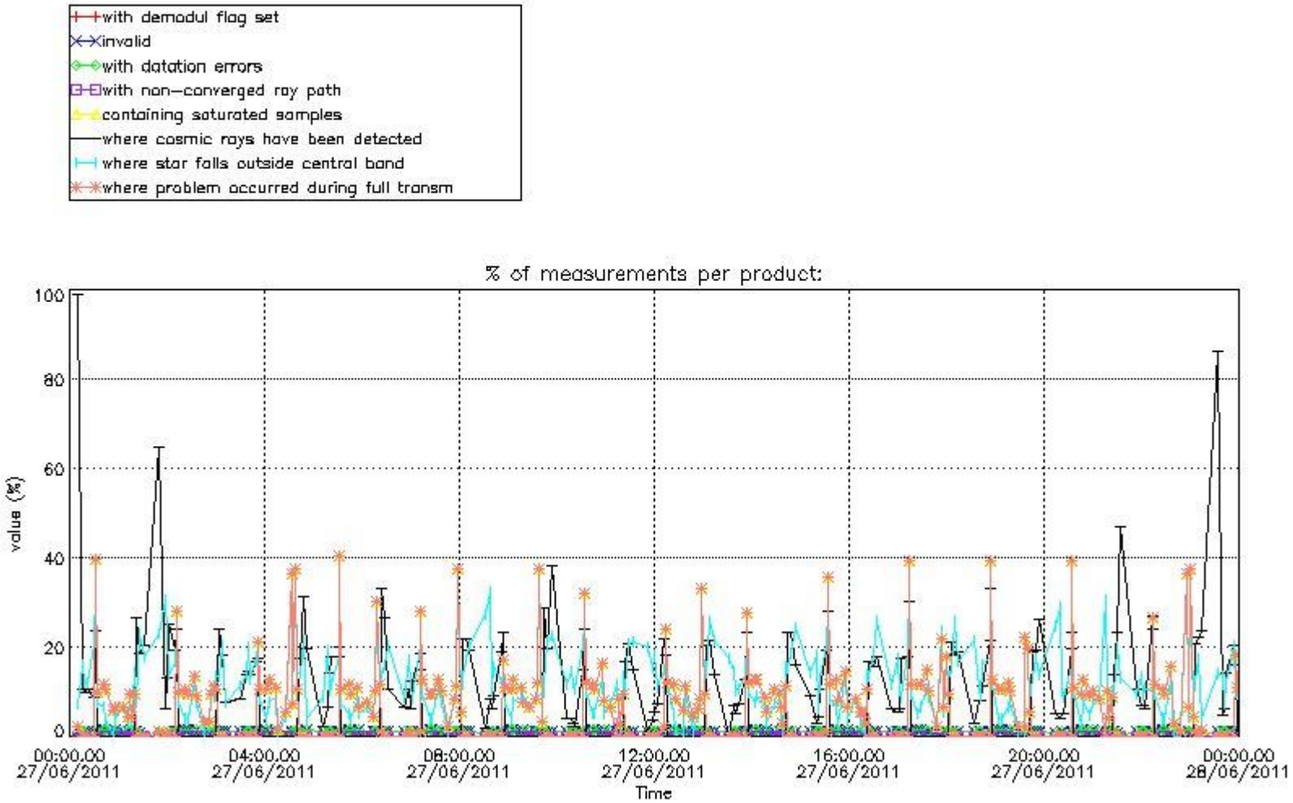
5. Demodulation flag and quality information monitoring

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:

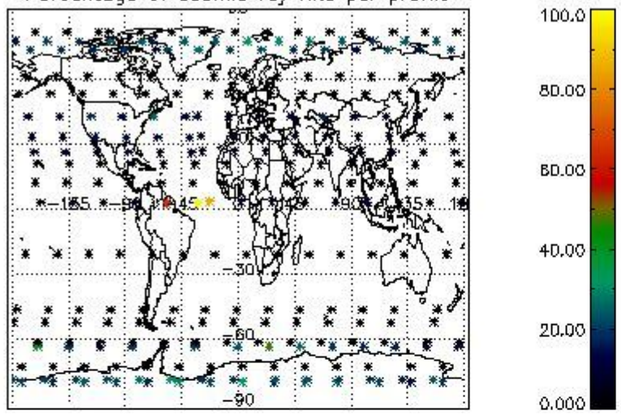
At least one measurement with demodulation flag set:	42.1245 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	57.1429 %

5.2 Plot quality information per product (time dependant)

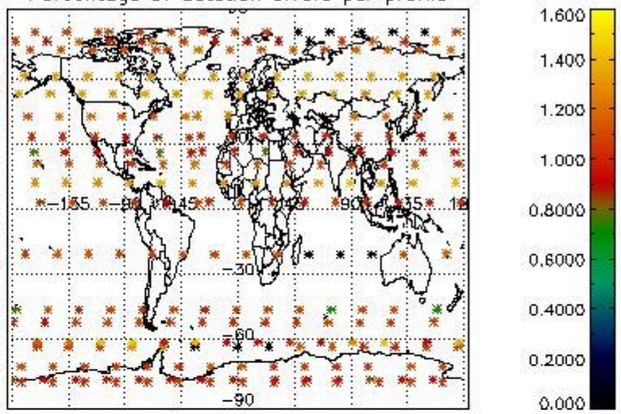


5.3 Plot quality information per product (world map)

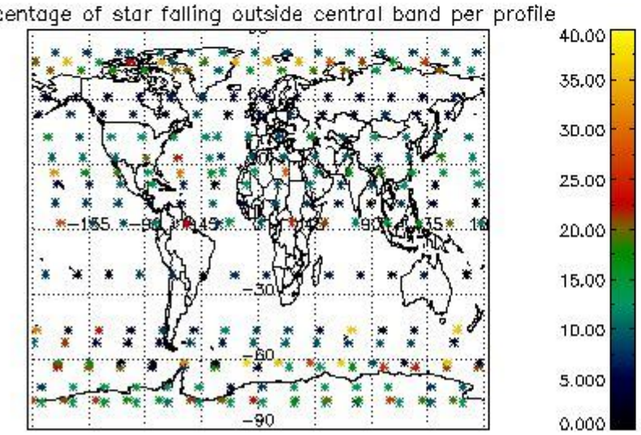
Percentage of cosmic ray hits per profile



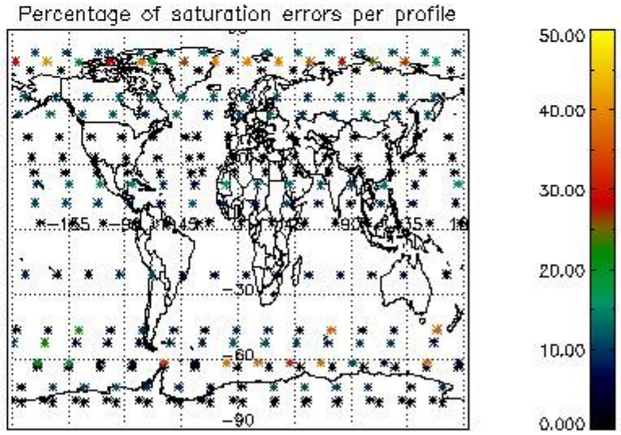
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



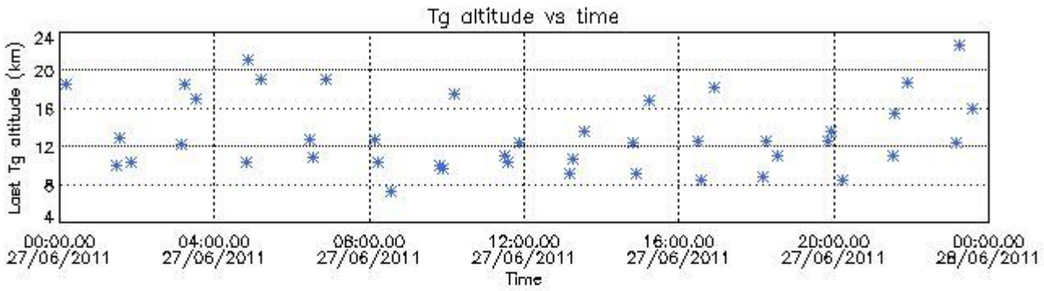
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

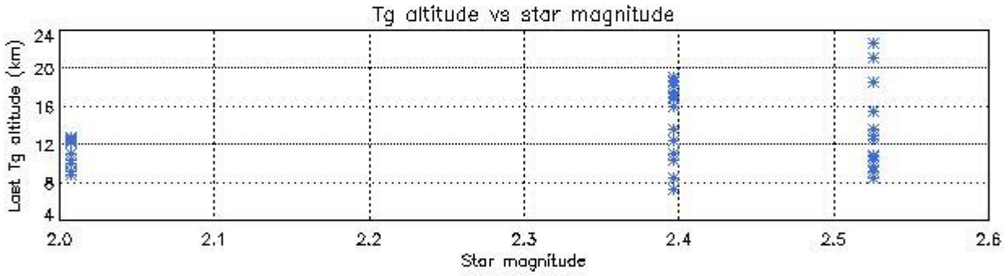
6.1 Statistics on tangent altitude lost:

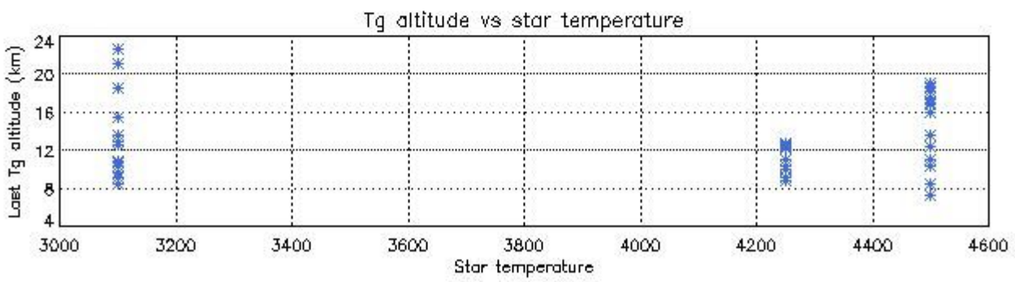
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.208	18.481	NaN
St. deviation:	3.8331	5.7034	NaN
Maximum:	22.573	28.715	NaN
Minimum:	7.2164	3.7517	NaN
Number of data:	43.000	156.00	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

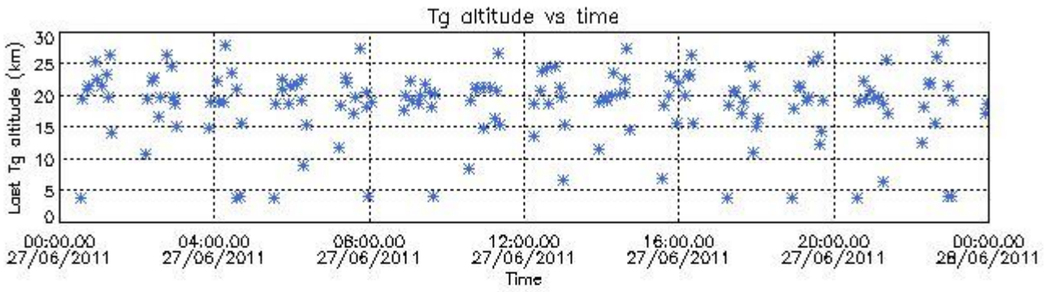


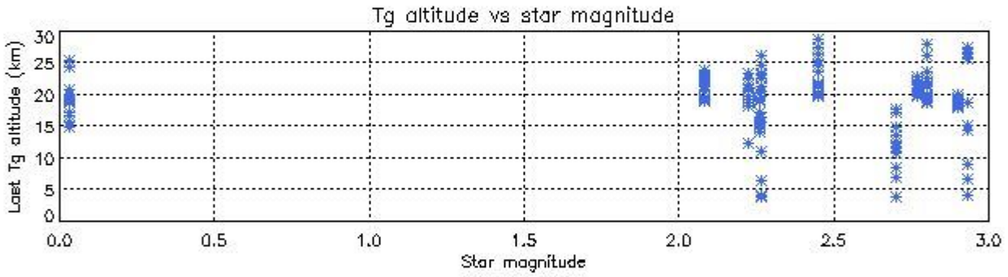


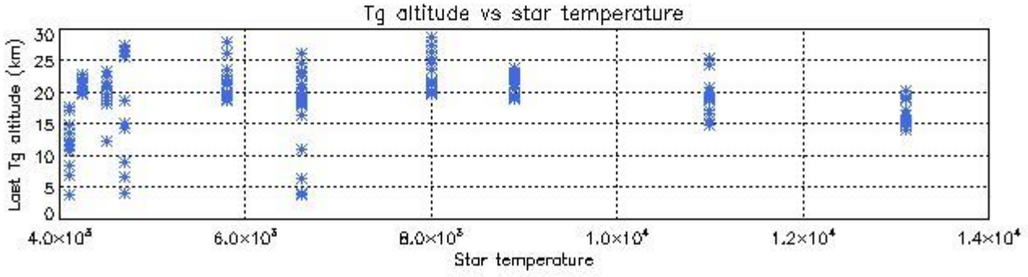


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost





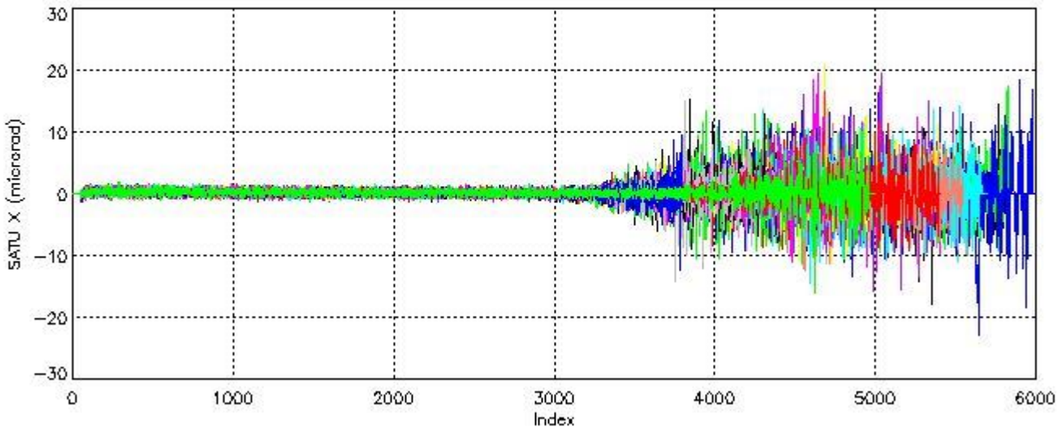


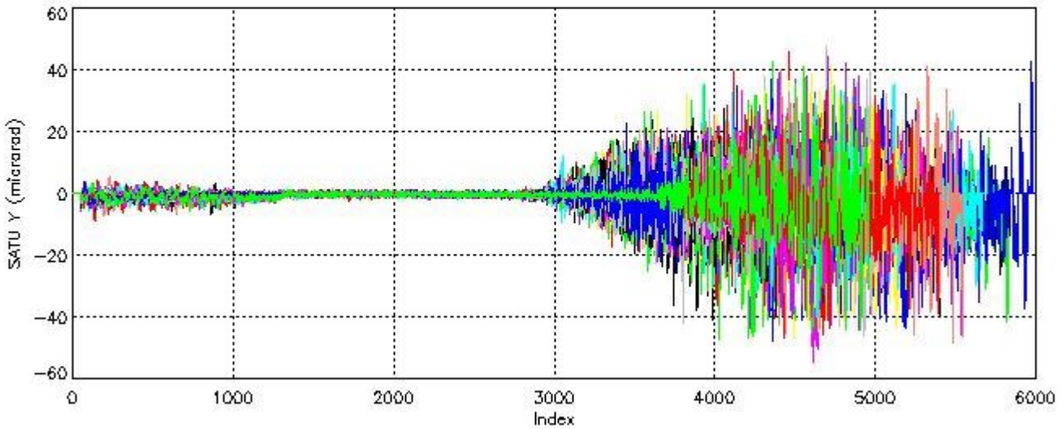
7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main 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:	0.20485	-0.91842	0.25145	-1.0989
St. deviation:	0.29660	1.0610	0.65239	1.3456
Maximum:	1.9000	5.4000	5.7000	5.8000
Minimum:	-1.2000	-8.8000	-4.1000	-9.0000

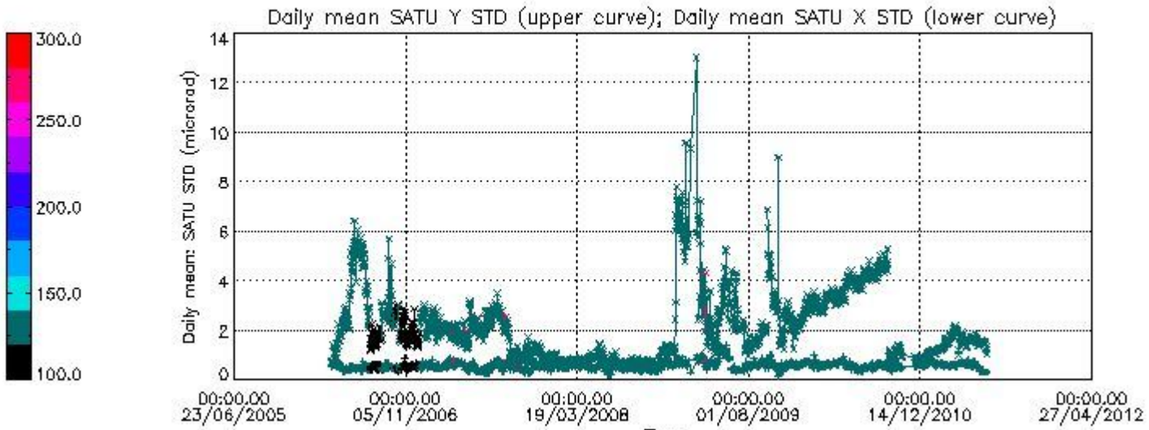
Number of data:	44300.	44300.	1.5805E+05	1.5805E+05
90Percentile:	0.60000	0.20000	1.1000	0.50000

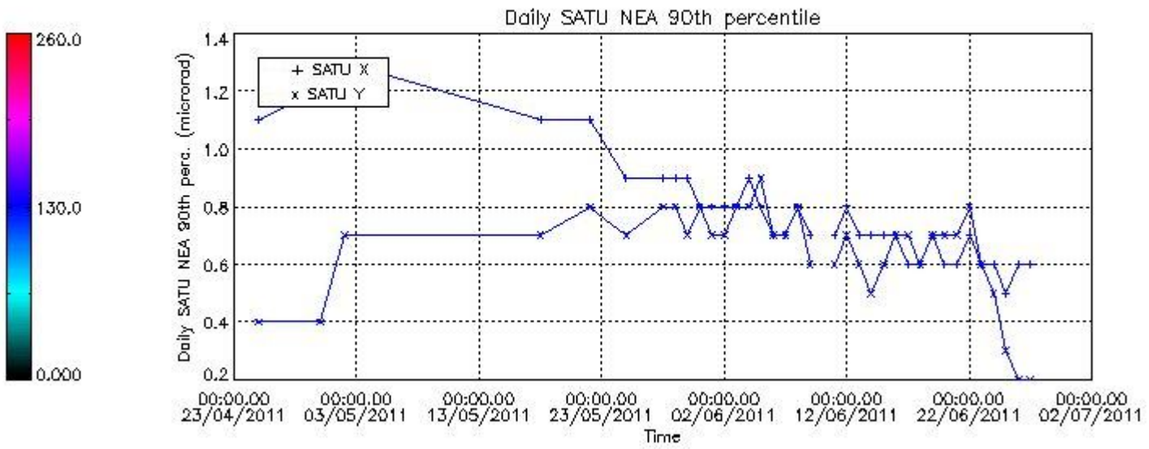
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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

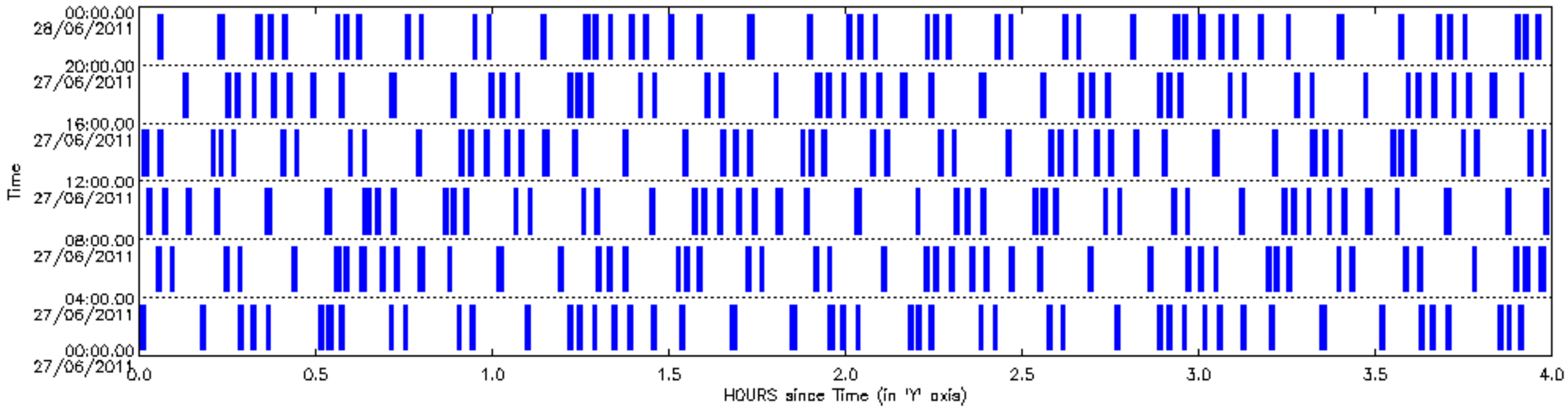


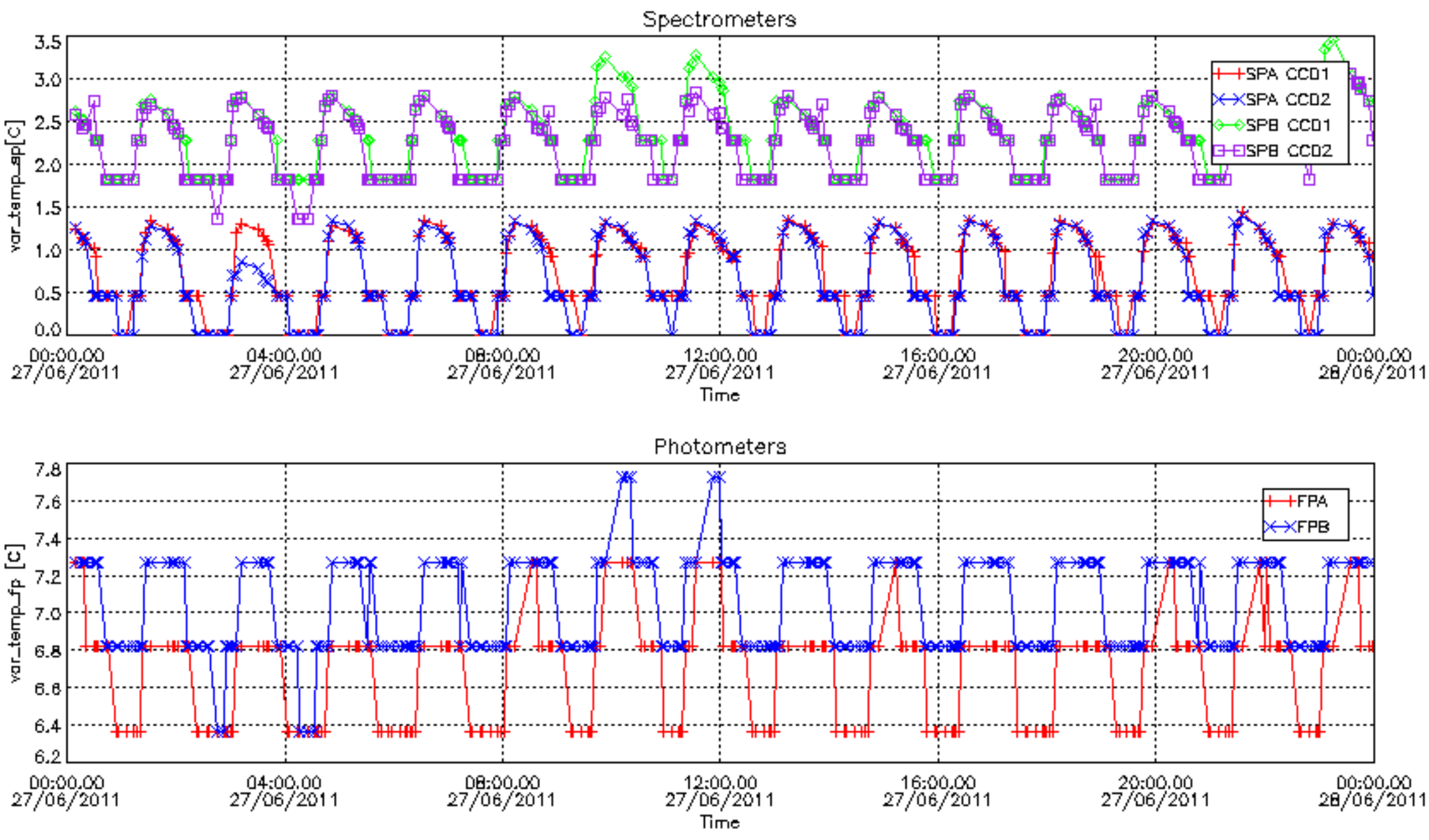


8. Auxiliary Data Files used for the production reported in section 2.4

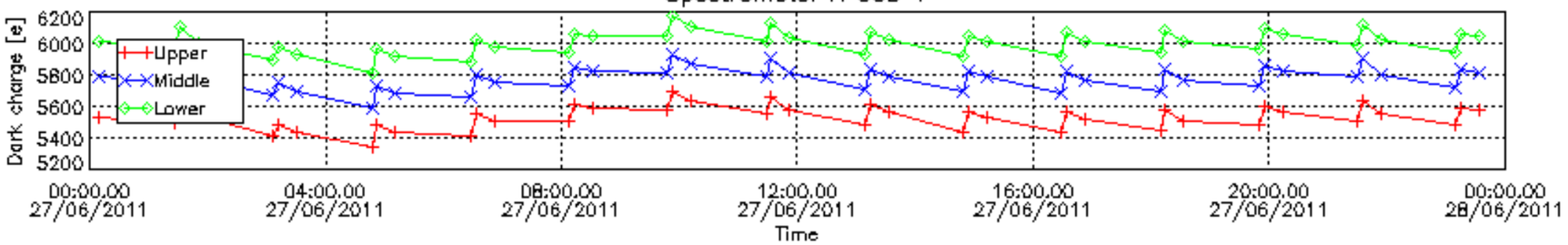
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	27-JUN-2011 00:10:19
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110622_075744_20110621_000000_20500101_000000	1	27-JUN-2011 00:10:19
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20110513_081743_20020301_000000_20500101_000000	1	27-JUN-2011 00:10:19
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-JUN-2011 00:10:19
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	27-JUN-2011 00:10:19
ECMWF_FILE	AUX_ECF_AXNECM20110626_062115_20110626_210000_20110627_090000	1	27-JUN-2011 00:10:19
ECMWF_FILE	AUX_ECF_AXNECM20110626_182418_20110627_030000_20110627_150000	51	27-JUN-2011 04:33:08
ECMWF_FILE	AUX_ECA_AXNECM20110627_062114_20110626_210000_20110627_090000	84	27-JUN-2011 07:23:22
ECMWF_FILE	AUX_ECF_AXNECM20110627_062114_20110627_090000_20110627_210000	103	27-JUN-2011 09:03:35
ECMWF_FILE	AUX_ECF_AXNECM20110627_062115_20110627_150000_20110628_030000	178	27-JUN-2011 15:36:03
ECMWF_FILE	AUX_ECA_AXNECM20110627_182934_20110627_090000_20110627_210000	195	27-JUN-2011 17:12:49
ECMWF_FILE	AUX_ECF_AXNECM20110627_062115_20110627_150000_20110628_030000	233	27-JUN-2011 20:33:17
ECMWF_FILE	AUX_ECF_AXNECM20110627_062115_20110627_210000_20110628_090000	248	27-JUN-2011 21:53:34
OPTIONAL_ECMWF_FILE	MISSING	1	27-JUN-2011 00:10:19
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110626_102115_20110625_194537_20110705_201910	1	27-JUN-2011 00:10:19
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110627_102933_20110626_190853_20110706_212240	122	27-JUN-2011 10:43:49

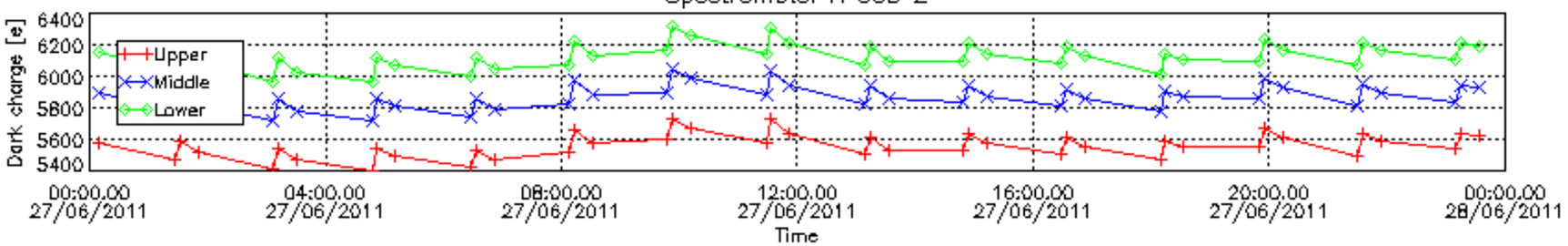

00:00.00
28/06/2011
20:00.00
27/06/2011
16:00.00
27/06/2011
12:00.00
27/06/2011
08:00.00
27/06/2011
04:00.00
27/06/2011
00:00.00
27/06/2011
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)


Spectrometers
var_temp_sp[C]
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
27/06/2011
04:00.00
27/06/2011
08:00.00
27/06/2011
12:00.00
27/06/2011
16:00.00
27/06/2011
20:00.00
27/06/2011
00:00.00
28/06/2011
Time
Photometers
var_temp_fp [C]
7.8
7.6
7.4
7.2
7.0
6.8
6.6
6.4
6.2
FPA
FPB
00:00.00
27/06/2011
04:00.00
27/06/2011
08:00.00
27/06/2011
12:00.00
27/06/2011
16:00.00
27/06/2011
20:00.00
27/06/2011
00:00.00
28/06/2011
Time

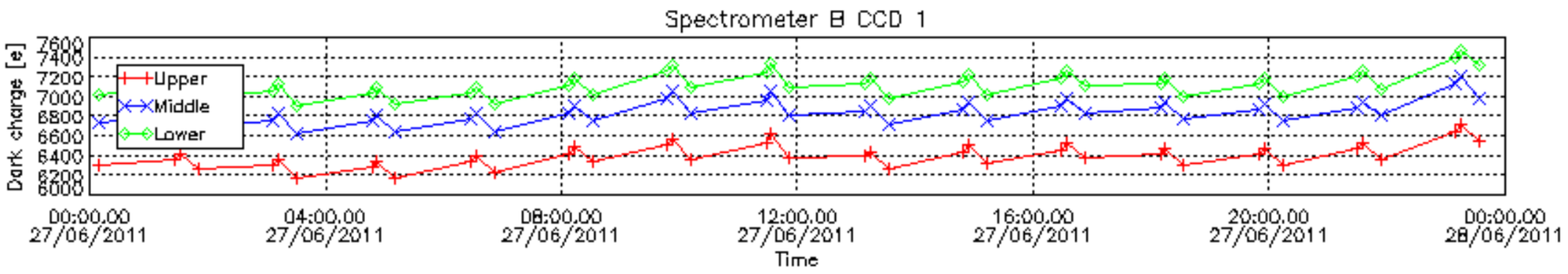
Spectrometer A CCD 1



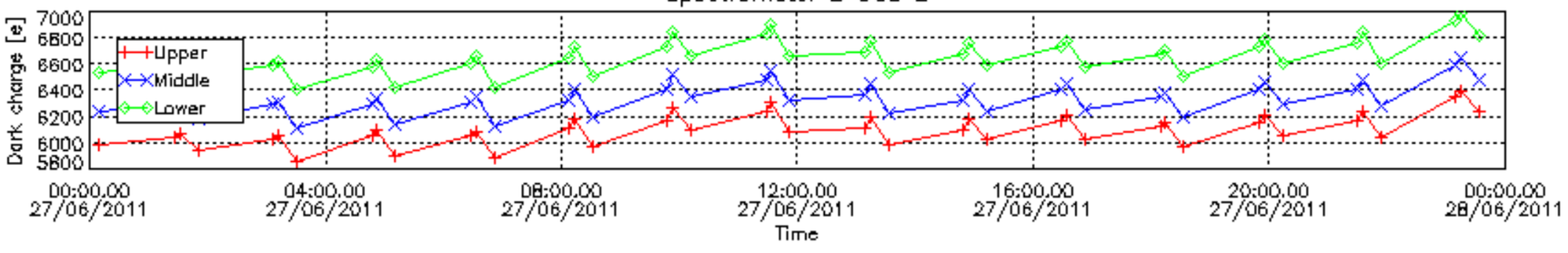
Spectrometer A CCD 2



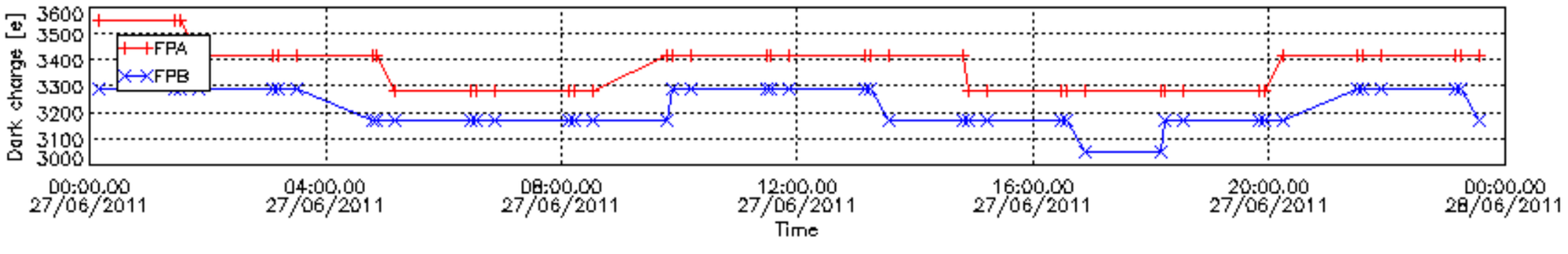
Spectrometer B CCD 1

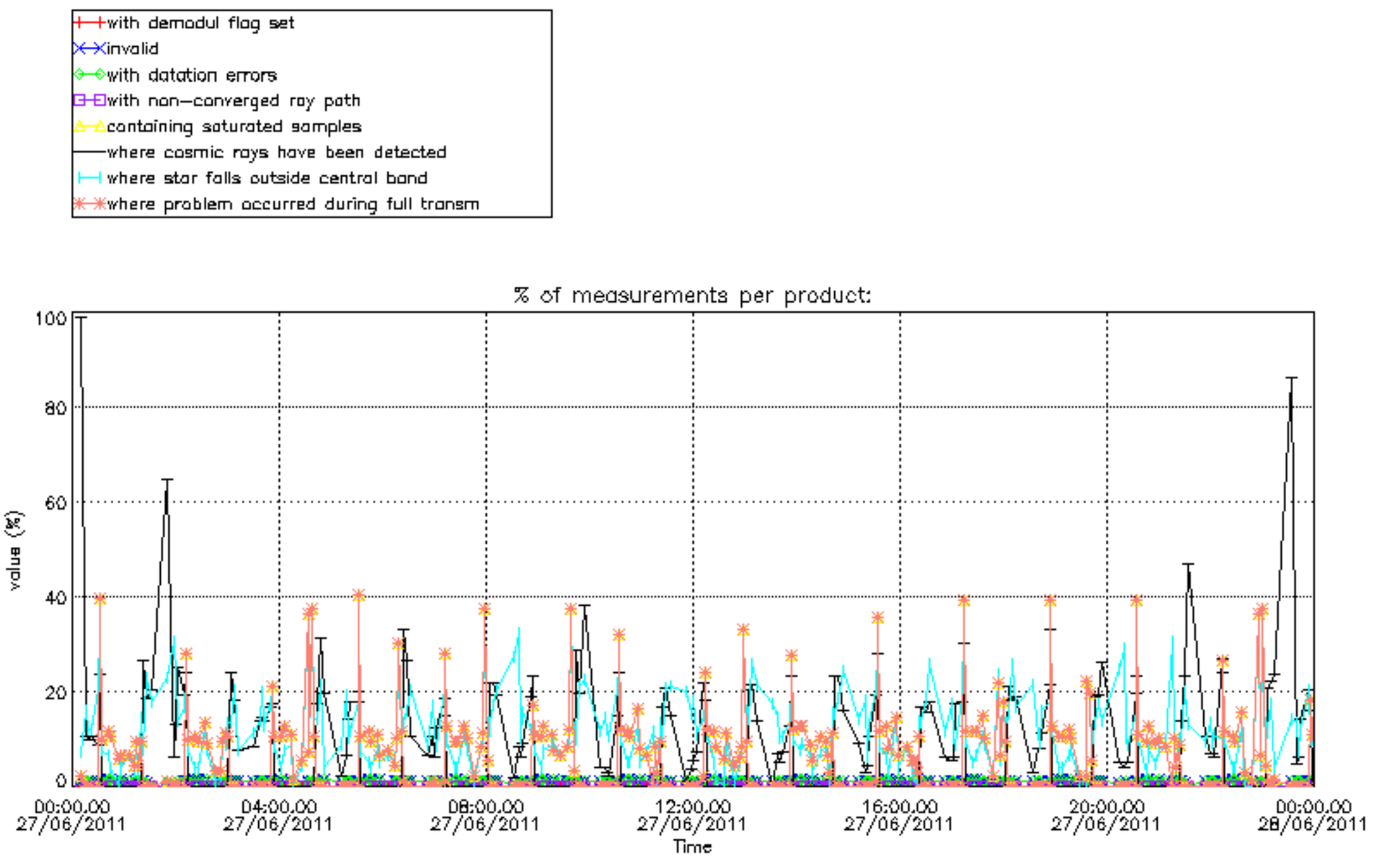


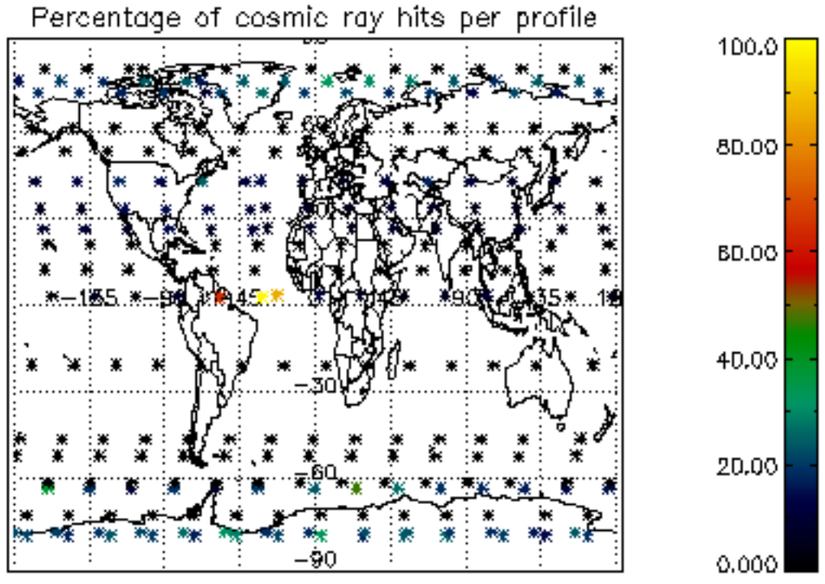
Spectrometer B CCD 2

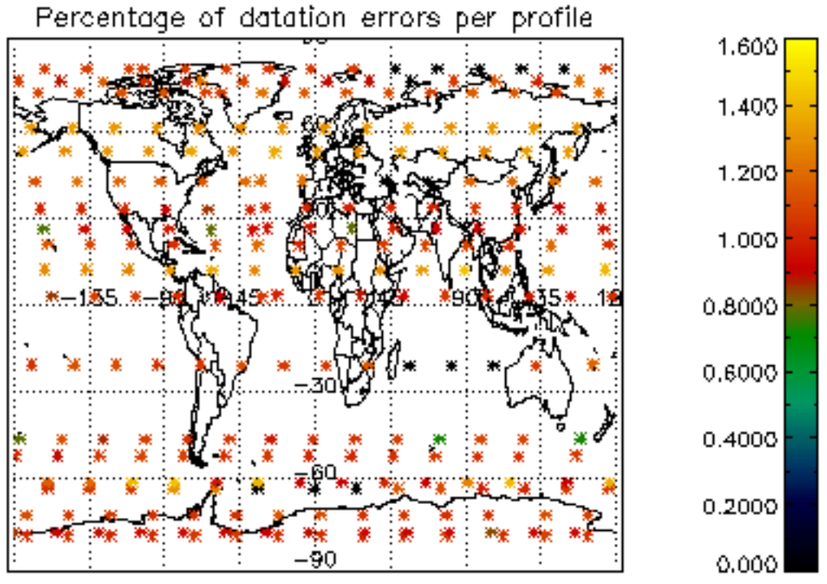


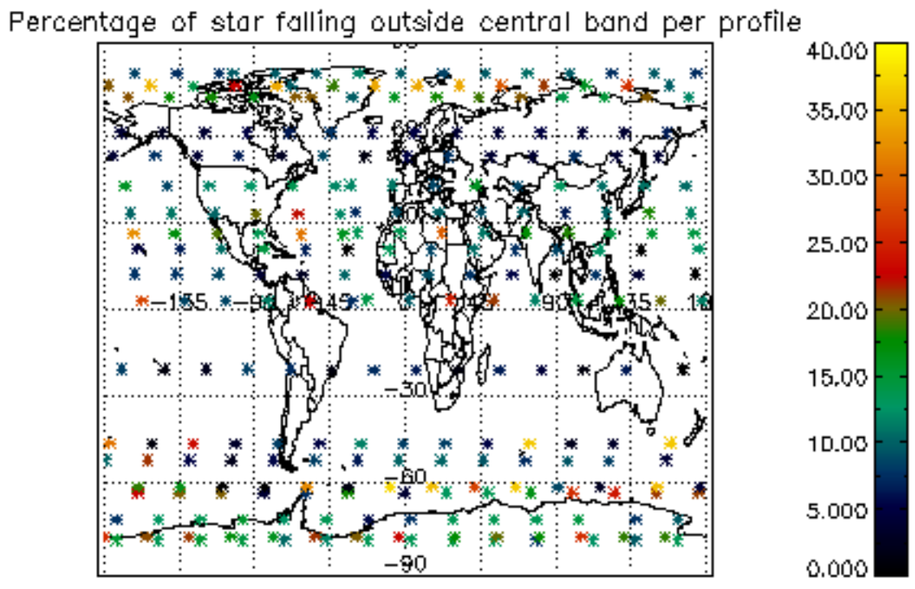
Photometers

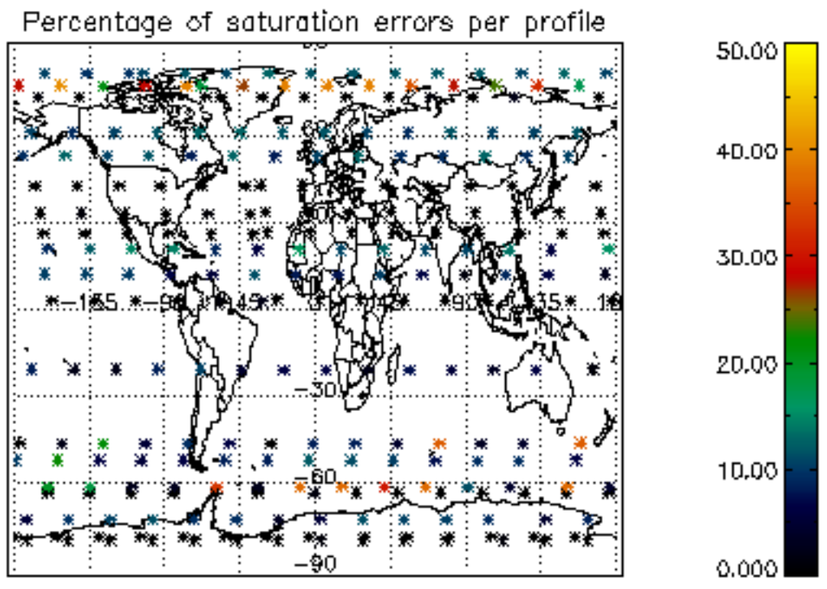



with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
100
80
60
40
20
0
value (%)
00:00.00 27/06/2011
04:00.00 27/06/2011
08:00.00 27/06/2011
12:00.00 27/06/2011
16:00.00 27/06/2011
20:00.00 27/06/2011
00:00.00 28/06/2011
Time

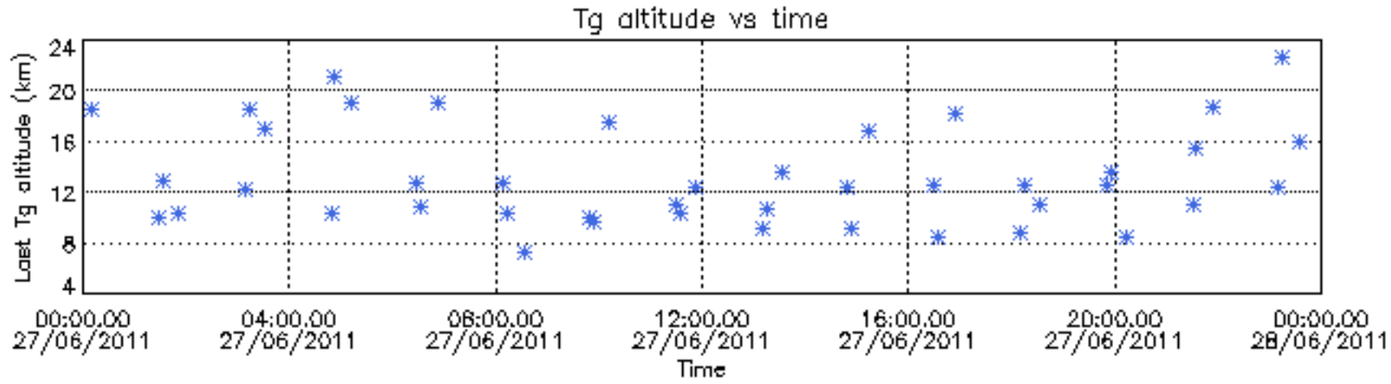

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
-30
-60
-90

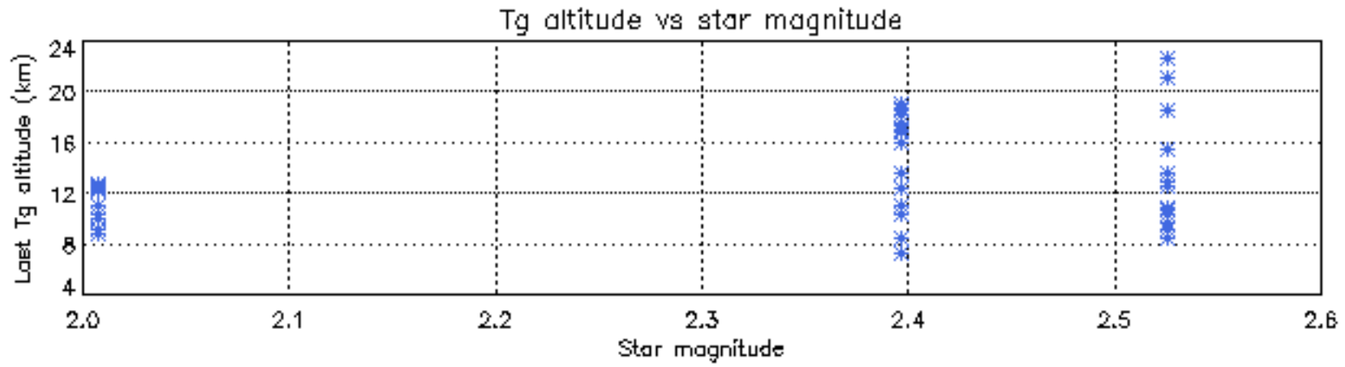

Percentage of datation errors per profile
1.600
1.400
1.200
1.000
0.8000
0.6000
0.4000
0.2000
0.000
-30
-60
-90

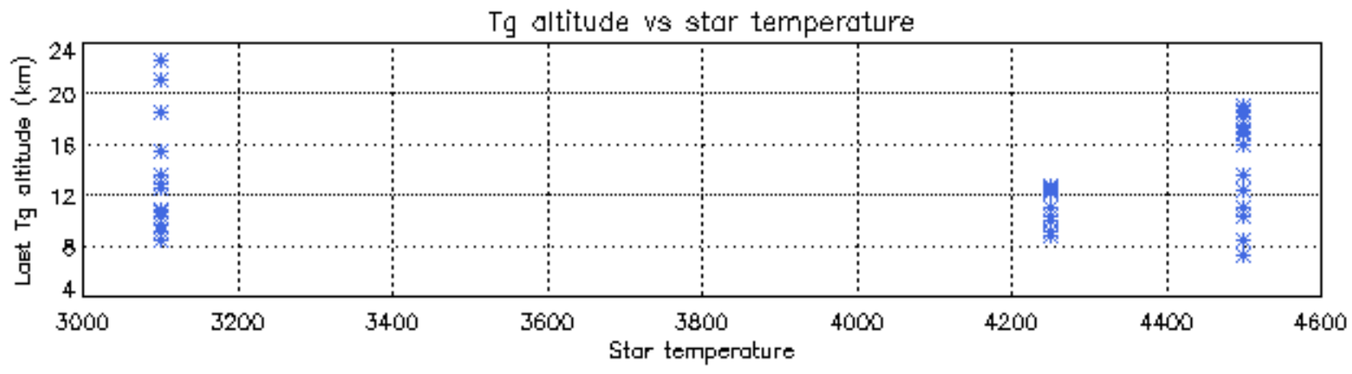

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
-30
-60
-90


Percentage of saturation errors per profile
50.00
40.00
30.00
20.00
10.00
0.000
-30
-60
-90

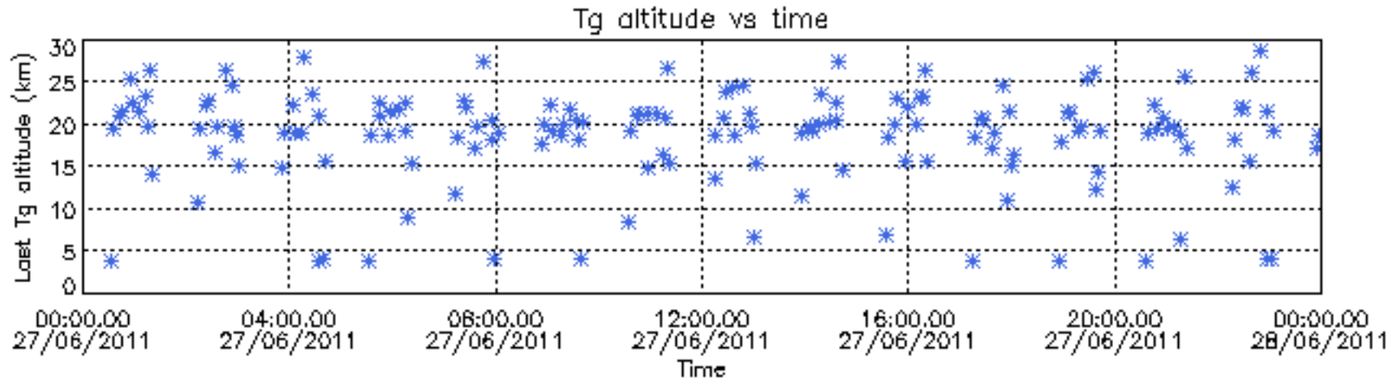
Tangent altitude at which the star is lost

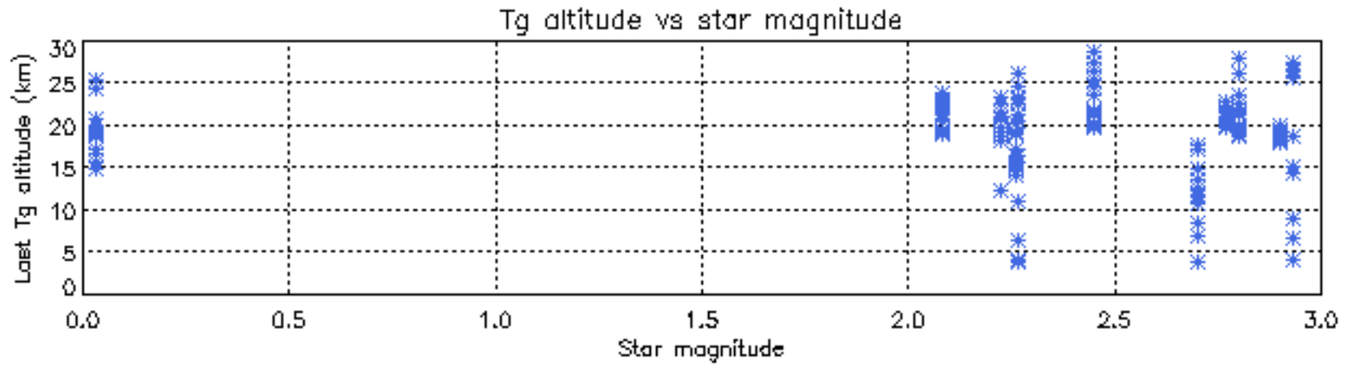


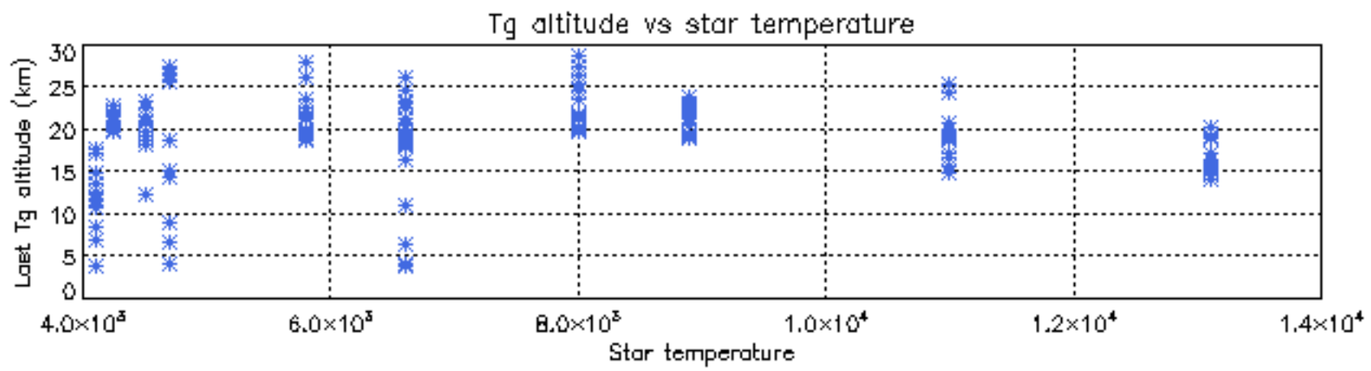


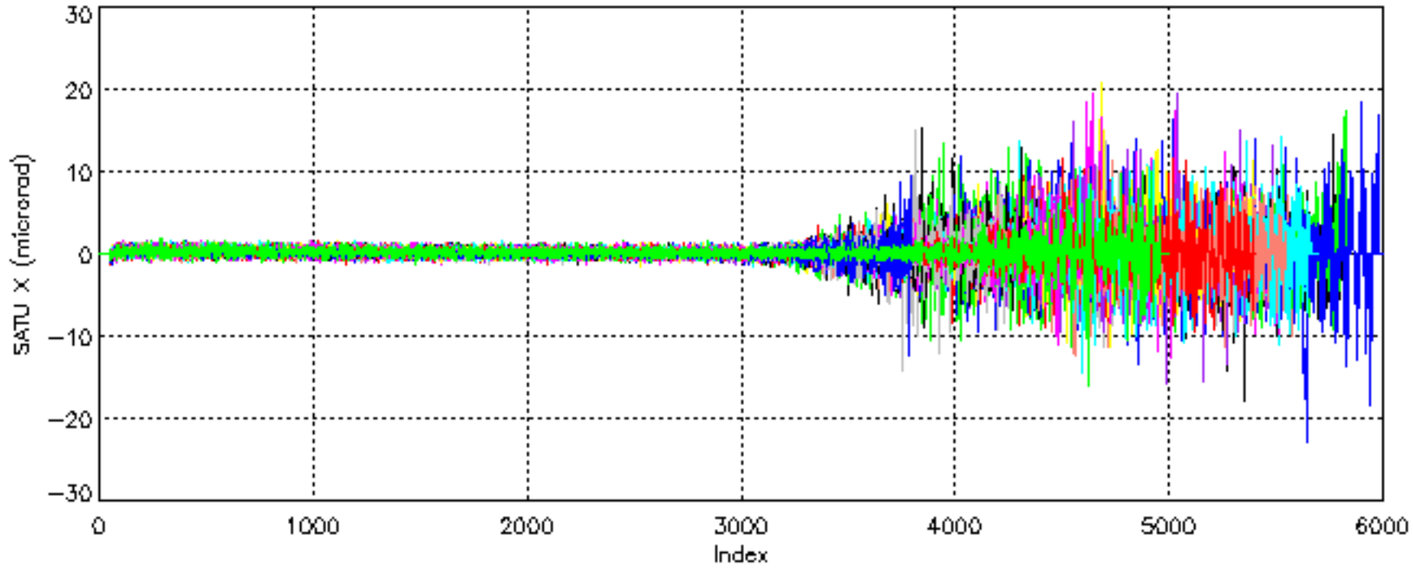


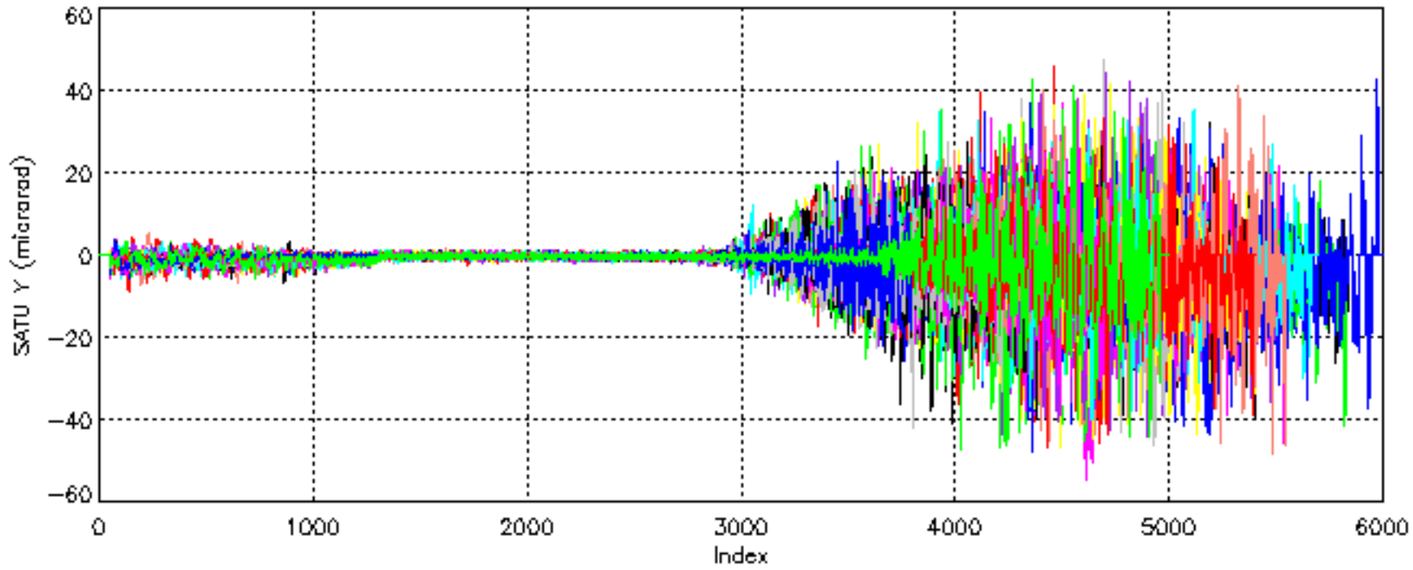
Tangent altitude at which the star is lost

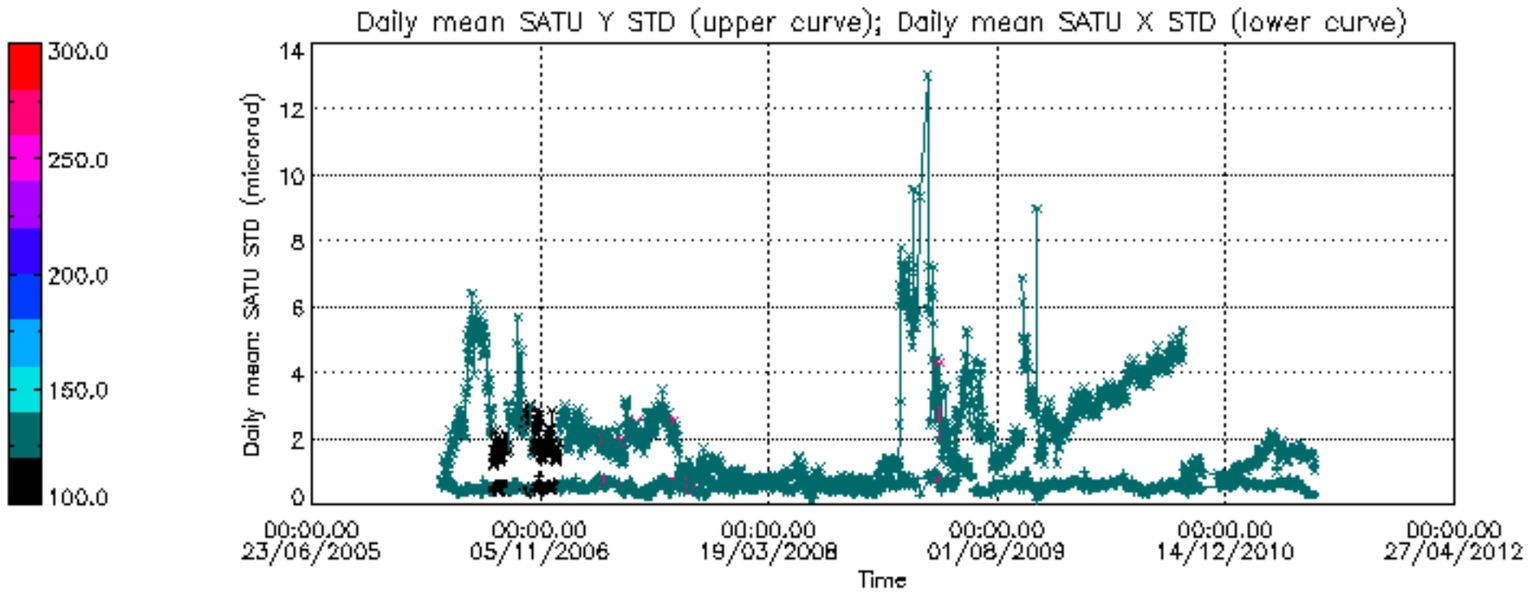


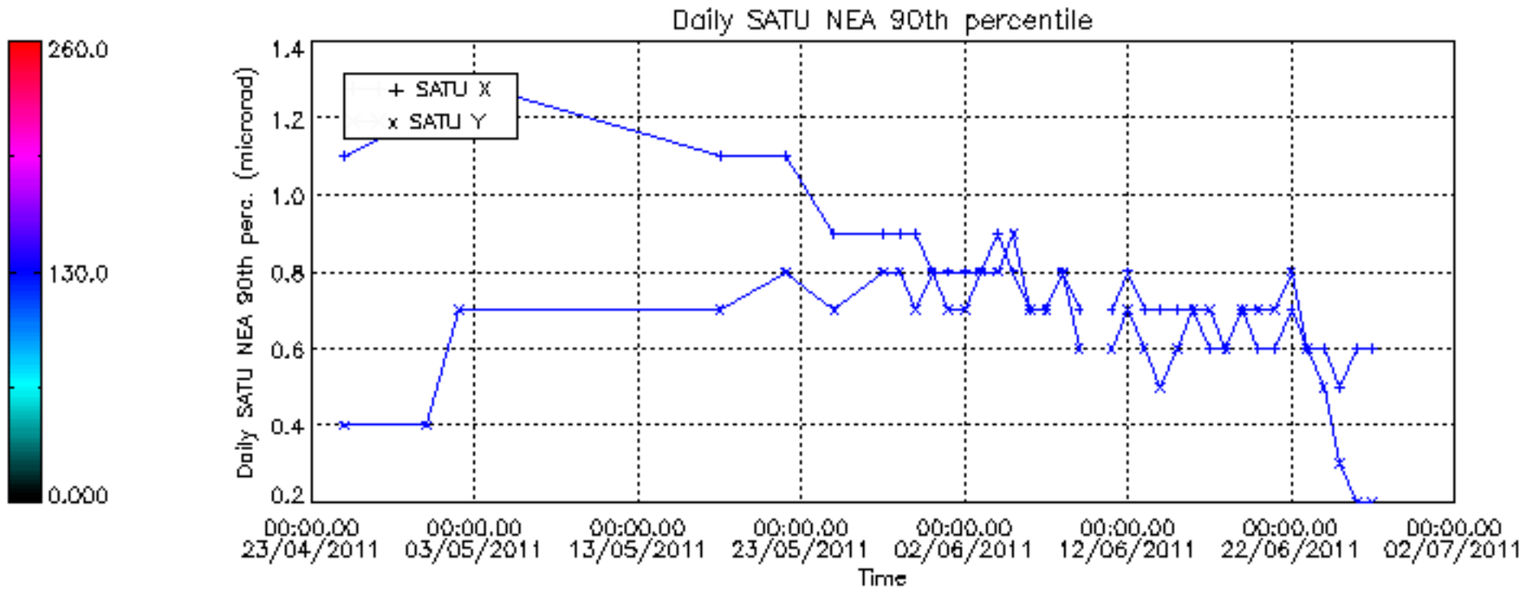





30
20
10
0
−10
−20
−30
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
Index


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


260.0
130.0
0.000
Daily SATU NEA 90th percentile
+ SATU X
x SATU Y
Daily SATU NEA 90th perc. (microrad)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
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
00:00.00 02/07/2011
Time

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  19; 4392.8; 23-JUN-2011 00:29:16; Dark  ;  63.5;   53; 43Bet And  ; 2.05;  3300;occ; 127;   0;48694
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  12; 4624.1; 22-JUN-2011 16:11:57; Dark  ;  51.0;   50; 13Alp Ari  ; 2.01;  4250;occ; 102;   0;48689
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   8; 3398.4; 22-JUN-2011 17:31:46; Bright;  47.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  95;   0;48690
   9; 3815.2; 22-JUN-2011 17:38:42; Bright;  46.5;   74; 11Bet Cas  ; 2.27;  6600;occ;  93;   0;48690
  10; 3907.7; 22-JUN-2011 17:40:15; Bright;  47.5;   68; 18Alp Cas  ; 2.22;  4500;occ;  95;   0;48690
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  12; 4249.1; 22-JUN-2011 17:45:56; Bright;  43.5;   73; 57Gam1And  ; 2.26; 13100;occ;  87;   0;48690
  13; 4392.9; 22-JUN-2011 17:48:20; Dark  ;  60.5;   53; 43Bet And  ; 2.05;  3300;occ; 121;   0;48690
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  19; 6509.5; 22-JUN-2011 18:23:37; Dark  ;  48.5;   31;   Alp Gru  ; 1.73; 15200;occ;  97;   0;48691
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  11; 4044.7; 22-JUN-2011 19:22:46; Bright;  53.5;  160; 23Gam Per  ; 2.93;  4700;occ; 107;   0;48691
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   3; 1450.5; 23-JUN-2011 18:02:48; Bright;  49.0;  155; 41Pi  Sgr  ; 2.90;  6600;occ;  98;   0;48705
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   9; 3808.7; 23-JUN-2011 18:42:06; Bright;  46.0;   74; 11Bet Cas  ; 2.27;  6600;occ;  92;   0;48705
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  12; 4248.5; 23-JUN-2011 18:49:26; Bright;  46.0;   73; 57Gam1And  ; 2.26; 13100;occ;  92;   0;48705
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   7; 2811.9; 23-JUN-2011 20:05:43; Bright;  42.0;  130; 23Bet Dra  ; 2.80;  5800;occ;  84;   0;48706
   8; 3387.1; 23-JUN-2011 20:15:18; Bright;  48.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  97;   0;48706
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  16; 5687.9; 23-JUN-2011 20:53:39; Dark  ;  62.0;   52; 16Bet Cet  ; 2.04;  4500;occ; 124;   0;48706
  17; 6016.2; 23-JUN-2011 20:59:07; Dark  ;  47.5;   84;   Alp Phe  ; 2.40;  4500;occ;  95;   0;48706
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  19; 6524.5; 23-JUN-2011 21:07:36; Dark  ;  50.0;   31;   Alp Gru  ; 1.73; 15200;occ; 100;   0;48707
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  14; 1335.1; 27-JUN-2011 03:52:17; Dark ; 43.0; 116; 19Del Sgr ; 2.70; 4100;occ; 86;   0;48754
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  11; 555.7; 27-JUN-2011 05:19:32; Dark ; 49.0;   31;   Alp Gru ; 1.73; 15200;occ; 98;   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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  11; 4043.3; 27-JUN-2011 21:19:46; Bright;  36.0;  160; 23Gam Per  ; 2.93;  4700;occ;  72;   0;48764
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   9; 1970.6; 28-JUN-2011 00:05:41; Bright;  37.5;  126; 60Bet Oph  ; 2.77;  4250;occ;  75;   0;48766
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   9;   49.2; 27-JUN-2011 06:51:20; Dark  ;  46.5;   84;   Alp Phe  ; 2.40;  4500;occ;  93;   0;48756
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   7; 3881.8; 27-JUN-2011 12:55:54; Bright;  48.0;   68; 18Alp Cas  ; 2.22;  4500;occ;  96;   0;48759
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   4;  722.1; 28-JUN-2011 01:25:06; Dark  ;  47.0;   45;   Alp Pav  ; 1.94; 26000;occ;  94;   0;48767
   5; 1255.9; 28-JUN-2011 01:34:00; Dark  ;  45.0;   38; 20Eps Sgr  ; 1.84; 11000;occ;  90;   0;48767
   6; 1338.1; 28-JUN-2011 01:35:22; Dark  ;  56.0;  116; 19Del Sgr  ; 2.70;  4100;occ; 112;   0;48767
   7; 1463.5; 28-JUN-2011 01:37:28; Bright;  46.5;  155; 41Pi  Sgr  ; 2.90;  6600;occ;  93;   0;48767
   8; 1970.7; 28-JUN-2011 01:45:55; Bright;  37.5;  126; 60Bet Oph  ; 2.77;  4250;occ;  75;   0;48767
   9; 2110.8; 28-JUN-2011 01:48:15; Bright;  39.0;   59; 55Alp Oph  ; 2.08;  8900;occ;  78;   0;48767
  10; 2651.7; 28-JUN-2011 01:57:16; Bright;  46.0;    5;  3Alp Lyr  ; 0.03; 11000;occ;  92;   0;48767
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  13; 3779.8; 28-JUN-2011 02:16:04; Bright;  69.0;   74; 11Bet Cas  ; 2.27;  6600;occ; 138;   0;48767
  14; 3878.7; 28-JUN-2011 02:17:43; Bright;  48.0;   68; 18Alp Cas  ; 2.22;  4500;occ;  96;   0;48767
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  17; 4399.6; 28-JUN-2011 02:26:24; Dark  ;  45.0;  173;  4Bet Tri  ; 3.00;  8900;occ;  90;   0;48767
  18; 4645.7; 28-JUN-2011 02:30:30; Dark  ;  54.5;   50; 13Alp Ari  ; 2.01;  4250;occ; 109;   0;48767
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  20; 5456.6; 28-JUN-2011 02:44:01; Dark  ;  59.0;    0;           ; 0.00;     0;occ; 118;   0;48767
  21; 6074.6; 28-JUN-2011 02:54:19; Dark  ;  46.0;   84;   Alp Phe  ; 2.40;  4500;occ;  92;   0;48768
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  24; 6736.7; 28-JUN-2011 03:05:21; Dark  ;  42.5;   45;   Alp Pav  ; 1.94; 26000;occ;  85;   0;48768
  25; 7270.1; 28-JUN-2011 03:14:14; Dark  ;  44.5;   38; 20Eps Sgr  ; 1.84; 11000;occ;  89;   0;48768
  26; 7352.5; 28-JUN-2011 03:15:37; Dark  ;  53.5;  116; 19Del Sgr  ; 2.70;  4100;occ; 107;   0;48768
  27; 7477.9; 28-JUN-2011 03:17:42; Bright;  47.0;  155; 41Pi  Sgr  ; 2.90;  6600;occ;  94;   0;48768
  28; 7984.5; 28-JUN-2011 03:26:09; Bright;  38.0;  126; 60Bet Oph  ; 2.77;  4250;occ;  76;   0;48768
  29; 8124.7; 28-JUN-2011 03:28:29; Bright;  38.5;   59; 55Alp Oph  ; 2.08;  8900;occ;  77;   0;48768
  30; 8665.4; 28-JUN-2011 03:37:29; Bright;  46.0;    5;  3Alp Lyr  ; 0.03; 11000;occ;  92;   0;48768
  31; 8812.5; 28-JUN-2011 03:39:57; Bright;  37.5;  130; 23Bet Dra  ; 2.80;  5800;occ;  75;   0;48768
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   3;-1970.9; 28-JUN-2011 04:00:41; Bright;  38.0;  160; 23Gam Per  ; 2.93;  4700;occ;  76;   0;48768
   4;-1768.1; 28-JUN-2011 04:04:04; Bright;  47.0;   73; 57Gam1And  ; 2.26; 13100;occ;  94;   0;48768
   5;-1614.3; 28-JUN-2011 04:06:38; Dark  ;  48.5;  173;  4Bet Tri  ; 3.00;  8900;occ;  97;   0;48768
   6;-1368.0; 28-JUN-2011 04:10:44; Dark  ;  54.5;   50; 13Alp Ari  ; 2.01;  4250;occ; 109;   0;48768
   7;-1072.4; 28-JUN-2011 04:15:40; Dark  ;  41.0;   94; 92Alp Cet  ; 2.53;  3100;occ;  82;   0;48768
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  19; 2798.5; 28-JUN-2011 05:20:11; Bright;  38.0;  130; 23Bet Dra  ; 2.80;  5800;occ;  76;   0;48769
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   3;-1970.8; 28-JUN-2011 05:40:55; Bright;  38.5;  160; 23Gam Per  ; 2.93;  4700;occ;  77;   0;48769
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   6;-1367.8; 28-JUN-2011 05:50:58; Dark  ;  55.0;   50; 13Alp Ari  ; 2.01;  4250;occ; 110;   0;48769
   7;-1072.1; 28-JUN-2011 05:55:54; Dark  ;  46.5;   94; 92Alp Cet  ; 2.53;  3100;occ;  93;   0;48769
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   9;   62.9; 28-JUN-2011 06:14:49; Dark  ;  54.0;   84;   Alp Phe  ; 2.40;  4500;occ; 108;   0;48770
  10;  451.3; 28-JUN-2011 06:21:17; Dark  ;  53.5;   63;   Bet Gru  ; 2.15;  2800;occ; 107;   0;48770
  11;  569.4; 28-JUN-2011 06:23:16; Dark  ;  49.5;   31;   Alp Gru  ; 1.73; 15200;occ;  99;   0;48770
  12;  723.7; 28-JUN-2011 06:25:50; Dark  ;  41.5;   45;   Alp Pav  ; 1.94; 26000;occ;  83;   0;48770
  13; 1257.0; 28-JUN-2011 06:34:43; Dark  ;  44.5;   38; 20Eps Sgr  ; 1.84; 11000;occ;  89;   0;48770
  14; 1338.9; 28-JUN-2011 06:36:05; Dark  ;  46.5;  116; 19Del Sgr  ; 2.70;  4100;occ;  93;   0;48770
  15; 1464.4; 28-JUN-2011 06:38:11; Bright;  47.5;  155; 41Pi  Sgr  ; 2.90;  6600;occ;  95;   0;48770
  16; 1970.6; 28-JUN-2011 06:46:37; Bright;  38.0;  126; 60Bet Oph  ; 2.77;  4250;occ;  76;   0;48770
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  18; 2650.3; 28-JUN-2011 06:57:56; Bright;  46.5;    5;  3Alp Lyr  ; 0.03; 11000;occ;  93;   0;48770
  19; 2798.1; 28-JUN-2011 07:00:24; Bright;  38.0;  130; 23Bet Dra  ; 2.80;  5800;occ;  76;   0;48770
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   3; 1465.9; 28-JUN-2011 20:00:04; Bright;  46.5;  155; 41Pi  Sgr  ; 2.90;  6600;occ;  93;   0;48778
   4; 1970.2; 28-JUN-2011 20:08:28; Bright;  38.5;  126; 60Bet Oph  ; 2.77;  4250;occ;  77;   0;48778
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   7; 2646.0; 28-JUN-2011 20:19:44; Bright;  43.0;    5;  3Alp Lyr  ; 0.03; 11000;occ;  86;   0;48778
   8; 2796.6; 28-JUN-2011 20:22:15; Bright;  37.5;  130; 23Bet Dra  ; 2.80;  5800;occ;  75;   0;48778
   9; 3338.0; 28-JUN-2011 20:31:16; Bright;  47.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  95;   0;48778
  10; 3774.2; 28-JUN-2011 20:38:32; Bright;  47.0;   74; 11Bet Cas  ; 2.27;  6600;occ;  94;   0;48778
  11; 3873.8; 28-JUN-2011 20:40:12; Bright;  48.5;   68; 18Alp Cas  ; 2.22;  4500;occ;  97;   0;48778
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  13; 4245.2; 28-JUN-2011 20:46:23; Bright;  47.0;   73; 57Gam1And  ; 2.26; 13100;occ;  94;   0;48778
  14; 4400.3; 28-JUN-2011 20:48:58; Dark  ;  45.0;  173;  4Bet Tri  ; 3.00;  8900;occ;  90;   0;48778
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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
   4;  460.1; 28-JUN-2011 21:23:32; Dark  ;  49.5;   63;   Bet Gru  ; 2.15;  2800;occ;  99;   0;48779
   5;  577.5; 28-JUN-2011 21:25:30; Dark  ;  47.5;   31;   Alp Gru  ; 1.73; 15200;occ;  95;   0;48779
   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
   9; 1465.9; 28-JUN-2011 21:40:18; Bright;  44.5;  155; 41Pi  Sgr  ; 2.90;  6600;occ;  89;   0;48779
  10; 1970.0; 28-JUN-2011 21:48:42; Bright;  38.0;  126; 60Bet Oph  ; 2.77;  4250;occ;  76;   0;48779
  11; 2109.7; 28-JUN-2011 21:51:02; Bright;  38.0;   59; 55Alp Oph  ; 2.08;  8900;occ;  76;   0;48779
  12; 2228.1; 28-JUN-2011 21:53:00; Bright;  25.0;  168; 17Zet Aql  ; 2.99; 11000;occ;  50;   0;48779
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  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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   3; 461.1; 28-JUN-2011 23:03:47; Dark ; 53.0;   63;   Bet Gru ; 2.15; 2800;occ; 106;   0;48780
   4; 578.4; 28-JUN-2011 23:05:44; Dark ; 49.5;   31;   Alp Gru ; 1.73; 15200;occ; 99;   0;48780
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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
   7; 1341.3; 28-JUN-2011 23:18:27; Dark ; 56.0; 116; 19Del Sgr ; 2.70; 4100;occ; 112;   0;48780
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   9; 1970.0; 28-JUN-2011 23:28:56; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75;   0;48780
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  11; 2227.6; 28-JUN-2011 23:33:14; Bright; 33.0; 168; 17Zet Aql ; 2.99; 11000;occ; 66;   0;48780
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  13; 2796.0; 28-JUN-2011 23:42:42; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76;   0;48780
  14; 3336.9; 28-JUN-2011 23:51:43; Bright; 45.5;   89; 5Alp Cep ; 2.45; 8000;occ; 91;   0;48780
  15; 3772.9; 28-JUN-2011 23:58:59; Bright; 47.0;   74; 11Bet Cas ; 2.27; 6600;occ; 94;   0;48780
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   3;-1970.8; 28-JUN-2011 07:21:09; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96;   0;48770
   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
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  14; 6079.6; 28-JUN-2011 11:15:34; Dark  ;  50.0;   84;   Alp Phe  ; 2.40;  4500;occ; 100;   0;48773
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   7; 3875.5; 28-JUN-2011 13:59:17; Bright;  48.5;   68; 18Alp Cas  ; 2.22;  4500;occ;  97;   0;48774
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   8; 1969.9; 29-JUN-2011 02:49:24; Bright;  37.5;  126; 60Bet Oph  ; 2.77;  4250;occ;  75;   0;48782
   9; 2109.6; 29-JUN-2011 02:51:43; Bright;  37.5;   59; 55Alp Oph  ; 2.08;  8900;occ;  75;   0;48782
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   9;   77.0; 29-JUN-2011 05:38:19; Dark  ;  62.5;   84;   Alp Phe  ; 2.40;  4500;occ; 125;   0;48784
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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
  14; 1467.5; 29-JUN-2011 06:01:29; Bright;  45.5;  155; 41Pi  Sgr  ; 2.90;  6600;occ;  91;   0;48784
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  17; 2225.4; 29-JUN-2011 06:14:07; Bright;  46.0;  168; 17Zet Aql  ; 2.99; 11000;occ;  92;   0;48784
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  29; 7983.9; 30-JUN-2011 03:52:53; Bright;  37.5;  126; 60Bet Oph  ; 2.77;  4250;occ;  75;   0;48797
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   5; 2213.1; 30-JUN-2011 20:39:17; Bright;  47.0;  168; 17Zet Aql  ; 2.99; 11000;occ;  94;   0;48807
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   7; 3324.1; 30-JUN-2011 07:35:56; Bright;  46.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  93;   0;48799
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  17; 4957.2; 30-JUN-2011 19:44:47; Dark  ;  49.0;   94; 92Alp Cet  ; 2.53;  3100;occ;  98;   0;48806
  18; 5489.9; 30-JUN-2011 19:53:40; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;48806
  19; 6114.3; 30-JUN-2011 20:04:04; Dark  ;  48.5;   84;   Alp Phe  ; 2.40;  4500;occ;  97;   0;48807
  20; 6501.4; 30-JUN-2011 20:10:31; Dark  ;  53.5;   63;   Bet Gru  ; 2.15;  2800;occ; 107;   0;48807
  21; 6616.9; 30-JUN-2011 20:12:26; Dark  ;  49.0;   31;   Alp Gru  ; 1.73; 15200;occ;  98;   0;48807
  22; 6756.1; 30-JUN-2011 20:14:46; Dark  ;  41.0;   45;   Alp Pav  ; 1.94; 26000;occ;  82;   0;48807
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