GOMOS Daily Report 25-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

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

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

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

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

Level 2 products

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1. General Info

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P).
It is intended to monitor some important parameters that will impact the quality of the level 2 products
as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle...
A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

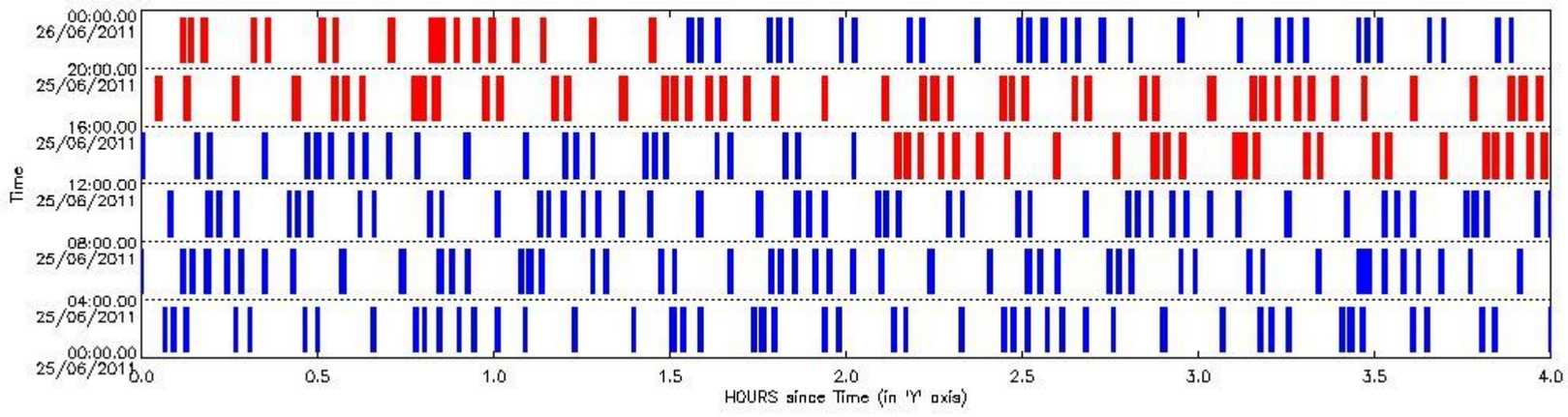
Item	Value
Time of report generation	28JUN2011 07:05:39
Data source version	GOMOS/6.01
Start time of products	25JUN2011 00:03:32
Stop time of products	25JUN2011 23:52:49
Store outputs in DB	Yes
Nb of level 1b prods	189
Nb of prods with errors	0

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
25-JUN-2011 14:08:05	11BetCas	74	48731
25-JUN-2011 14:09:41	18AlpCas	68	48731
25-JUN-2011 14:12:12	23GamPer	160	48731
25-JUN-2011 14:15:35	57Gam1And	73	48731
25-JUN-2011 14:18:05	4BetTri	173	48731
25-JUN-2011 14:22:03	13AlpAri	50	48731
25-JUN-2011 14:26:56	92AlpCet	94	48731
25-JUN-2011 14:35:16	DSA1066	0	48731
25-JUN-2011 14:45:28	AlpPhe	84	48732
25-JUN-2011 14:51:56	BetGru	63	48732
25-JUN-2011 14:53:56	AlpGru	31	48732
25-JUN-2011 14:56:46	AlpPav	45	48732
25-JUN-2011 15:05:48	20EpsSgr	38	48732
25-JUN-2011 15:07:11	19DelSgr	116	48732
25-JUN-2011 15:09:18	41PiSgr	155	48732

25-JUN-2011 15:17:54	60BetOph	126	48732
25-JUN-2011 15:20:16	55AlpOph	59	48732
25-JUN-2011 15:29:33	3AlpLyr	5	48732
25-JUN-2011 15:31:48	23BetDra	130	48732
25-JUN-2011 15:41:11	5AlpCep	89	48732
25-JUN-2011 15:48:18	11BetCas	74	48732
25-JUN-2011 15:49:54	18AlpCas	68	48732
25-JUN-2011 15:52:26	23GamPer	160	48732
25-JUN-2011 15:55:49	57Gam1And	73	48732
25-JUN-2011 15:58:19	4BetTri	173	48732
25-JUN-2011 16:02:17	13AlpAri	50	48732
25-JUN-2011 16:07:10	92AlpCet	94	48732
25-JUN-2011 16:15:31	DSA1066	0	48732
25-JUN-2011 16:25:43	AlpPhe	84	48733
25-JUN-2011 16:32:11	BetGru	63	48733
25-JUN-2011 16:34:11	AlpGru	31	48733
25-JUN-2011 16:37:00	AlpPav	45	48733
25-JUN-2011 16:46:02	20EpsSgr	38	48733
25-JUN-2011 16:47:26	19DelSgr	116	48733
25-JUN-2011 16:49:32	41PiSgr	155	48733
25-JUN-2011 16:58:08	60BetOph	126	48733
25-JUN-2011 17:00:30	55AlpOph	59	48733
25-JUN-2011 17:09:47	3AlpLyr	5	48733
25-JUN-2011 17:12:01	23BetDra	130	48733
25-JUN-2011 17:21:25	5AlpCep	89	48733
25-JUN-2011 17:28:32	11BetCas	74	48733
25-JUN-2011 17:30:08	18AlpCas	68	48733
25-JUN-2011 17:32:40	23GamPer	160	48733
25-JUN-2011 17:36:03	57Gam1And	73	48733
25-JUN-2011 17:38:33	4BetTri	173	48733
25-JUN-2011 17:42:31	13AlpAri	50	48733
25-JUN-2011 17:47:24	92AlpCet	94	48733
25-JUN-2011 17:55:46	DSA1066	0	48733
25-JUN-2011 18:05:58	AlpPhe	84	48734
25-JUN-2011 18:12:26	BetGru	63	48734
25-JUN-2011 18:14:26	AlpGru	31	48734
25-JUN-2011 18:17:15	AlpPav	45	48734
25-JUN-2011 18:26:16	20EpsSgr	38	48734
25-JUN-2011 18:27:40	19DelSgr	116	48734
25-JUN-2011 18:29:47	41PiSgr	155	48734
25-JUN-2011 18:38:22	60BetOph	126	48734
25-JUN-2011 18:40:44	55AlpOph	59	48734
25-JUN-2011 18:50:00	3AlpLyr	5	48734
25-JUN-2011 18:52:15	23BetDra	130	48734
25-JUN-2011 19:01:38	5AlpCep	89	48734
25-JUN-2011 19:08:45	11BetCas	74	48734
25-JUN-2011 19:10:21	18AlpCas	68	48734
25-JUN-2011 19:12:54	23GamPer	160	48734
25-JUN-2011 19:16:17	57Gam1And	73	48734
25-JUN-2011 19:18:47	4BetTri	173	48734
25-JUN-2011 19:22:46	13AlpAri	50	48734
25-JUN-2011 19:27:39	92AlpCet	94	48734
25-JUN-2011 19:36:01	DSA1066	0	48734
25-JUN-2011 19:46:13	AlpPhe	84	48735
25-JUN-2011 19:52:41	BetGru	63	48735
25-JUN-2011 19:54:41	AlpGru	31	48735
25-JUN-2011 19:57:29	AlpPav	45	48735
25-JUN-2011 20:06:31	20EpsSgr	38	48735
25-JUN-2011 20:07:54	19DelSgr	116	48735

25-JUN-2011 20:10:01	41PiSgr	155	48735
25-JUN-2011 20:18:36	60BetOph	126	48735
25-JUN-2011 20:20:58	55AlpOph	59	48735
25-JUN-2011 20:30:14	3AlpLyr	5	48735
25-JUN-2011 20:32:29	23BetDra	130	48735
25-JUN-2011 20:41:51	5AlpCep	89	48735
25-JUN-2011 20:48:59	11BetCas	74	48735
25-JUN-2011 20:50:35	18AlpCas	68	48735
25-JUN-2011 20:53:08	23GamPer	160	48735
25-JUN-2011 20:56:31	57Gam1And	73	48735
25-JUN-2011 20:59:01	4BetTri	173	48735
25-JUN-2011 21:03:00	13AlpAri	50	48735
25-JUN-2011 21:07:53	92AlpCet	94	48735
25-JUN-2011 21:16:15	DSA1066	0	48735
25-JUN-2011 21:26:28	AlpPhe	84	48736

2.4 Summary of processed GOM_TRA_1P products

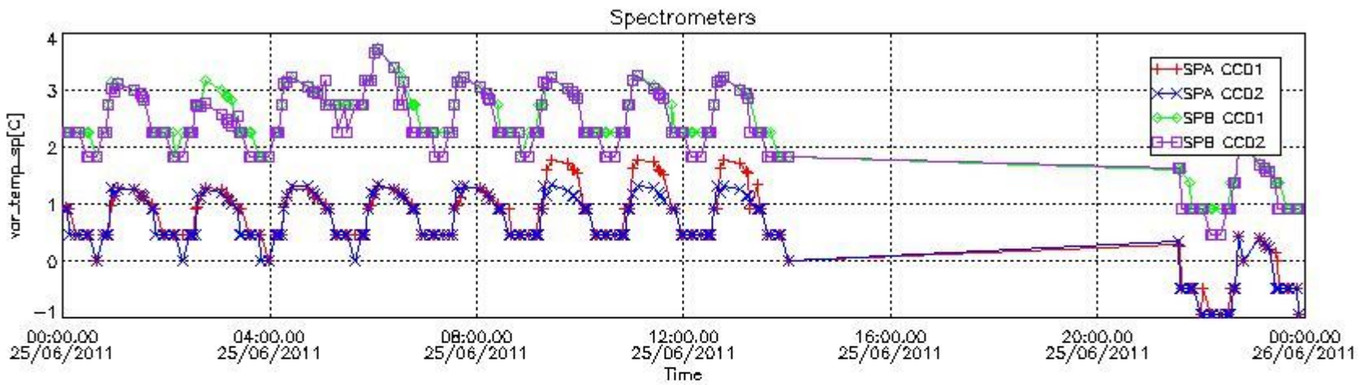
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20110625_000332_000000443104_00002_48723_8221.N1	25-JUN-2011 00:03:32	Twi_and_stray	44.000	38	20Eps Sgr	1.8360	11000.	88	48723	No
2	GOM_TRA_1PNPDE20110625_000456_000000483104_00002_48723_8222.N1	25-JUN-2011 00:04:56	Bright	47.500	116	19Del Sgr	2.7000	4100.0	95	48723	No
3	GOM_TRA_1PNPDE20110625_000703_000000473104_00002_48723_8223.N1	25-JUN-2011 00:07:03	Bright	47.000	155	41Pi Sgr	2.9000	6600.0	94	48723	No
4	GOM_TRA_1PNPDE20110625_001542_000000393104_00002_48723_8224.N1	25-JUN-2011 00:15:42	Bright	39.000	126	60Bet Oph	2.7700	4250.0	78	48723	No
5	GOM_TRA_1PNPDE20110625_001804_000000393104_00002_48723_8225.N1	25-JUN-2011 00:18:04	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	48723	No
6	GOM_TRA_1PNPDE20110625_002726_000000433104_00002_48723_8226.N1	25-JUN-2011 00:27:26	Bright	42.500	5	3Alp Lyr	0.033000	11000.	85	48723	No
7	GOM_TRA_1PNPDE20110625_002936_000000403104_00002_48723_8227.N1	25-JUN-2011 00:29:36	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	48723	No
8	GOM_TRA_1PNPDE20110625_003904_000000473104_00002_48723_8228.N1	25-JUN-2011 00:39:04	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	48723	No
9	GOM_TRA_1PNPDE20110625_004609_000000463104_00002_48723_8229.N1	25-JUN-2011 00:46:09	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	48723	No
10	GOM_TRA_1PNPDE20110625_004744_000000463104_00002_48723_8230.N1	25-JUN-2011 00:47:44	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	48723	No
11	GOM_TRA_1PNPDE20110625_005013_000000553104_00002_48723_8231.N1	25-JUN-2011 00:50:13	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	48723	No
12	GOM_TRA_1PNPDE20110625_005336_000000473104_00002_48723_8232.N1	25-JUN-2011 00:53:36	Bright	46.500	73	57Gam1And	2.2600	13100.	93	48723	No
13	GOM_TRA_1PNPDE20110625_005605_000000483104_00002_48723_8233.N1	25-JUN-2011 00:56:05	Twi_and_stray	47.500	173	4Bet Tri	3.0040	8900.0	95	48723	No
14	GOM_TRA_1PNPDE20110625_010002_000000523104_00002_48723_8234.N1	25-JUN-2011 01:00:02	Dark	51.500	50	13Alp Ari	2.0070	4250.0	103	48723	No
15	GOM_TRA_1PNPDE20110625_010454_000000363104_00002_48723_8235.N1	25-JUN-2011 01:04:54	Dark	36.000	94	92Alp Cet	2.5260	3100.0	72	48723	No
16	GOM_TRA_1PNPDE20110625_012321_000000463104_00003_48724_8258.N1	25-JUN-2011 01:23:21	Dark	45.500	84	Alp Phe	2.3970	4500.0	91	48724	No
17	GOM_TRA_1PNPDE20110625_012949_000000633104_00003_48724_8259.N1	25-JUN-2011 01:29:49	Straylight	63.000	63	Bet Gru	2.1500	2800.0	126	48724	No
18	GOM_TRA_1PNPDE20110625_013149_000000483104_00003_48724_8260.N1	25-JUN-2011 01:31:49	Straylight	47.500	31	Alp Gru	1.7340	15200.	95	48724	No
19	GOM_TRA_1PNPDE20110625_013442_000000433104_00003_48724_8261.N1	25-JUN-2011 01:34:42	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	48724	No
20	GOM_TRA_1PNPDE20110625_014346_000000473104_00003_48724_8262.N1	25-JUN-2011 01:43:46	Twi_and_stray	46.500	38	20Eps Sgr	1.8360	11000.	93	48724	No
21	GOM_TRA_1PNPDE20110625_014510_000000573104_00003_48724_8263.N1	25-JUN-2011 01:45:10	Bright	57.000	116	19Del Sgr	2.7000	4100.0	114	48724	No
22	GOM_TRA_1PNPDE20110625_014717_000000493104_00003_48724_8264.N1	25-JUN-2011 01:47:17	Bright	49.000	155	41Pi Sgr	2.9000	6600.0	98	48724	No
23	GOM_TRA_1PNPDE20110625_015556_000000393104_00003_48724_8265.N1	25-JUN-2011 01:55:56	Bright	39.000	126	60Bet Oph	2.7700	4250.0	78	48724	No
24	GOM_TRA_1PNPDE20110625_015818_000000413104_00003_48724_8266.N1	25-JUN-2011 01:58:18	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	48724	No
25	GOM_TRA_1PNPDE20110625_020739_000000483104_00003_48724_8267.N1	25-JUN-2011 02:07:39	Bright	47.500	5	3Alp Lyr	0.033000	11000.	95	48724	No
26	GOM_TRA_1PNPDE20110625_020950_000000373104_00003_48724_8268.N1	25-JUN-2011 02:09:50	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	48724	No
27	GOM_TRA_1PNPDE20110625_021917_000000453104_00003_48724_8269.N1	25-JUN-2011 02:19:17	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	48724	No
28	GOM_TRA_1PNPDE20110625_022623_000000483104_00003_48724_8270.N1	25-JUN-2011 02:26:23	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	48724	No
29	GOM_TRA_1PNPDE20110625_022758_000000463104_00003_48724_8271.N1	25-JUN-2011 02:27:58	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	48724	No
30	GOM_TRA_1PNPDE20110625_023027_000000553104_00003_48724_8272.N1	25-JUN-2011 02:30:27	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	48724	No
31	GOM_TRA_1PNPDE20110625_023351_000000453104_00003_48724_8273.N1	25-JUN-2011 02:33:51	Bright	45.000	73	57Gam1And	2.2600	13100.	90	48724	No
32	GOM_TRA_1PNPDE20110625_023619_000000493104_00003_48724_8274.N1	25-JUN-2011 02:36:19	Twi_and_stray	48.500	173	4Bet Tri	3.0040	8900.0	97	48724	No
33	GOM_TRA_1PNPDE20110625_024016_000000513104_00003_48724_8275.N1	25-JUN-2011 02:40:16	Dark	51.000	50	13Alp Ari	2.0070	4250.0	102	48724	No
34	GOM_TRA_1PNPDE20110625_024508_000000393104_00003_48724_8276.N1	25-JUN-2011 02:45:08	Dark	38.500	94	92Alp Cet	2.5260	3100.0	77	48724	No
35	GOM_TRA_1PNPDE20110625_030336_000000483104_00004_48725_8277.N1	25-JUN-2011 03:03:36	Dark	47.500	84	Alp Phe	2.3970	4500.0	95	48725	No
36	GOM_TRA_1PNPDE20110625_031004_000000513104_00004_48725_8278.N1	25-JUN-2011 03:10:04	Straylight	50.500	63	Bet Gru	2.1500	2800.0	101	48725	No
37	GOM_TRA_1PNPDE20110625_031204_000000483104_00004_48725_8279.N1	25-JUN-2011 03:12:04	Straylight	47.500	31	Alp Gru	1.7340	15200.	95	48725	No
38	GOM_TRA_1PNPDE20110625_031457_000000423104_00004_48725_8280.N1	25-JUN-2011 03:14:57	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	48725	No
39	GOM_TRA_1PNPDE20110625_032400_000000463104_00004_48725_8281.N1	25-JUN-2011 03:24:00	Twi_and_stray	46.000	38	20Eps Sgr	1.8360	11000.	92	48725	No

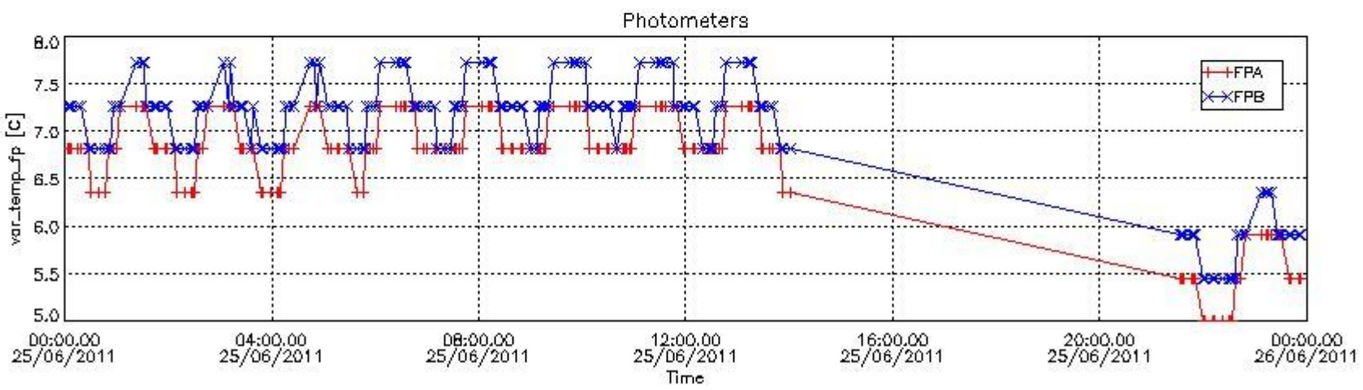
40	GOM_TRA_1PNPDE20110625_032524_000000573104_00004_48725_8282.N1	25-JUN-2011 03:25:24	Bright	57.000	116	19Del Sgr	2.7000	4100.0	114	48725	No
41	GOM_TRA_1PNPDE20110625_032732_000000493104_00004_48725_8283.N1	25-JUN-2011 03:27:32	Bright	48.500	155	41Pi Sgr	2.9000	6600.0	97	48725	No
42	GOM_TRA_1PNPDE20110625_033610_000000393104_00004_48725_8284.N1	25-JUN-2011 03:36:10	Bright	39.000	126	60Bet Oph	2.7700	4250.0	78	48725	No
43	GOM_TRA_1PNPDE20110625_033832_000000383104_00004_48725_8285.N1	25-JUN-2011 03:38:32	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	48725	No
44	GOM_TRA_1PNPDE20110625_034752_000000493104_00004_48725_8286.N1	25-JUN-2011 03:47:52	Bright	48.500	5	3Alp Lyr	0.033000	11000.	97	48725	No
45	GOM_TRA_1PNPDE20110625_035004_000000383104_00004_48725_8287.N1	25-JUN-2011 03:50:04	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	48725	No
46	GOM_TRA_1PNPDE20110625_035931_000000473104_00004_48725_8288.N1	25-JUN-2011 03:59:31	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	48725	No
47	GOM_TRA_1PNPDE20110625_040636_000000473104_00004_48725_8281.N1	25-JUN-2011 04:06:36	Bright	47.000	74	11Bet Cas	2.2680	6600.0	94	48725	No
48	GOM_TRA_1PNPDE20110625_040812_000000453104_00004_48725_8282.N1	25-JUN-2011 04:08:12	Bright	45.000	68	18Alp Cas	2.2250	4500.0	90	48725	No
49	GOM_TRA_1PNPDE20110625_041041_000000553104_00004_48725_8283.N1	25-JUN-2011 04:10:41	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	48725	No
50	GOM_TRA_1PNPDE20110625_041405_000000453104_00004_48725_8284.N1	25-JUN-2011 04:14:05	Bright	45.000	73	57Gam1And	2.2600	13100.	90	48725	No
51	GOM_TRA_1PNPDE20110625_041633_000000473104_00004_48725_8285.N1	25-JUN-2011 04:16:33	Twi_and_stray	46.500	173	4Bet Tri	3.0040	8900.0	93	48725	No
52	GOM_TRA_1PNPDE20110625_042030_000000533104_00004_48725_8286.N1	25-JUN-2011 04:20:30	Dark	53.000	50	13Alp Ari	2.0070	4250.0	106	48725	No
53	GOM_TRA_1PNPDE20110625_042523_000000513104_00004_48725_8287.N1	25-JUN-2011 04:25:23	Dark	51.000	94	92Alp Cet	2.5260	3100.0	102	48725	No
54	GOM_TRA_1PNPDE20110625_044351_000000563104_00005_48726_8288.N1	25-JUN-2011 04:43:51	Dark	56.000	84	Alp Phe	2.3970	4500.0	112	48726	No
55	GOM_TRA_1PNPDE20110625_045019_000000533104_00005_48726_8289.N1	25-JUN-2011 04:50:19	Straylight	53.000	63	Bet Gru	2.1500	2800.0	106	48726	No
56	GOM_TRA_1PNPDE20110625_045219_000000513104_00005_48726_8290.N1	25-JUN-2011 04:52:19	Straylight	50.500	31	Alp Gru	1.7340	15200.	101	48726	No
57	GOM_TRA_1PNPDE20110625_045512_000000403104_00005_48726_8291.N1	25-JUN-2011 04:55:12	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	48726	No
58	GOM_TRA_1PNPDE20110625_050415_000000443104_00005_48726_8292.N1	25-JUN-2011 05:04:15	Twi_and_stray	44.000	38	20Eps Sgr	1.8360	11000.	88	48726	No
59	GOM_TRA_1PNPDE20110625_050539_000000573104_00005_48726_8293.N1	25-JUN-2011 05:05:39	Bright	57.000	116	19Del Sgr	2.7000	4100.0	114	48726	No
60	GOM_TRA_1PNPDE20110625_050746_000000493104_00005_48726_8294.N1	25-JUN-2011 05:07:46	Bright	49.000	155	41Pi Sgr	2.9000	6600.0	98	48726	No
61	GOM_TRA_1PNPDE20110625_051624_000000393104_00005_48726_8295.N1	25-JUN-2011 05:16:24	Bright	39.000	126	60Bet Oph	2.7700	4250.0	78	48726	No
62	GOM_TRA_1PNPDE20110625_051846_000000403104_00005_48726_8296.N1	25-JUN-2011 05:18:46	Bright	40.000	59	55Alp Oph	2.0800	8900.0	80	48726	No
63	GOM_TRA_1PNPDE20110625_052806_000000483104_00005_48726_8297.N1	25-JUN-2011 05:28:06	Bright	47.500	5	3Alp Lyr	0.033000	11000.	95	48726	No
64	GOM_TRA_1PNPDE20110625_053018_000000393104_00005_48726_8298.N1	25-JUN-2011 05:30:18	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	48726	No
65	GOM_TRA_1PNPDE20110625_053944_000000473104_00005_48726_8299.N1	25-JUN-2011 05:39:44	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	48726	No
66	GOM_TRA_1PNPDE20110625_054650_000000483104_00005_48726_8303.N1	25-JUN-2011 05:46:50	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	48726	No
67	GOM_TRA_1PNPDE20110625_054825_000000473104_00005_48726_8304.N1	25-JUN-2011 05:48:25	Bright	46.500	68	18Alp Cas	2.2250	4500.0	93	48726	No
68	GOM_TRA_1PNPDE20110625_055055_000000363104_00005_48726_8305.N1	25-JUN-2011 05:50:55	Bright	35.500	160	23Gam Per	2.9300	4700.0	71	48726	No
69	GOM_TRA_1PNPDE20110625_055419_000000473104_00005_48726_8306.N1	25-JUN-2011 05:54:19	Bright	46.500	73	57Gam1And	2.2600	13100.	93	48726	No
70	GOM_TRA_1PNPDE20110625_055647_000000493104_00005_48726_8307.N1	25-JUN-2011 05:56:47	Twi_and_stray	48.500	173	4Bet Tri	3.0040	8900.0	97	48726	No
71	GOM_TRA_1PNPDE20110625_060044_000000523104_00005_48726_8308.N1	25-JUN-2011 06:00:44	Dark	52.000	50	13Alp Ari	2.0070	4250.0	104	48726	No
72	GOM_TRA_1PNPDE20110625_060537_000000433104_00005_48726_8309.N1	25-JUN-2011 06:05:37	Dark	42.500	94	92Alp Cet	2.5260	3100.0	85	48726	No
73	GOM_TRA_1PNPDE20110625_062406_000000483104_00006_48727_8310.N1	25-JUN-2011 06:24:06	Dark	47.500	84	Alp Phe	2.3970	4500.0	95	48727	No
74	GOM_TRA_1PNPDE20110625_063034_000000513104_00006_48727_8311.N1	25-JUN-2011 06:30:34	Straylight	51.000	63	Bet Gru	2.1500	2800.0	102	48727	No
75	GOM_TRA_1PNPDE20110625_063234_000000513104_00006_48727_8312.N1	25-JUN-2011 06:32:34	Straylight	50.500	31	Alp Gru	1.7340	15200.	101	48727	No
76	GOM_TRA_1PNPDE20110625_063526_000000493104_00006_48727_8313.N1	25-JUN-2011 06:35:26	Straylight	49.000	45	Alp Pav	1.9400	26000.	98	48727	No
77	GOM_TRA_1PNPDE20110625_064429_000000463104_00006_48727_8314.N1	25-JUN-2011 06:44:29	Twi_and_stray	46.000	38	20Eps Sgr	1.8360	11000.	92	48727	No
78	GOM_TRA_1PNPDE20110625_064553_000000483104_00006_48727_8315.N1	25-JUN-2011 06:45:53	Bright	47.500	116	19Del Sgr	2.7000	4100.0	95	48727	No
79	GOM_TRA_1PNPDE20110625_064800_000000493104_00006_48727_8316.N1	25-JUN-2011 06:48:00	Bright	48.500	155	41Pi Sgr	2.9000	6600.0	97	48727	No
80	GOM_TRA_1PNPDE20110625_065638_000000393104_00006_48727_8317.N1	25-JUN-2011 06:56:38	Bright	39.000	126	60Bet Oph	2.7700	4250.0	78	48727	No
81	GOM_TRA_1PNPDE20110625_065859_000000413104_00006_48727_8318.N1	25-JUN-2011 06:58:59	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	48727	No
82	GOM_TRA_1PNPDE20110625_070819_000000493104_00006_48727_8319.N1	25-JUN-2011 07:08:19	Bright	48.500	5	3Alp Lyr	0.033000	11000.	97	48727	No
83	GOM_TRA_1PNPDE20110625_071032_000000393104_00006_48727_8320.N1	25-JUN-2011 07:10:32	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	48727	No
84	GOM_TRA_1PNPDE20110625_071957_000000473104_00006_48727_8321.N1	25-JUN-2011 07:19:57	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	48727	No
85	GOM_TRA_1PNPDK20110625_072704_000000683104_00006_48727_8522.N1	25-JUN-2011 07:27:04	Bright	68.000	74	11Bet Cas	2.2680	6600.0	136	48727	No
86	GOM_TRA_1PNPDK20110625_072839_000000463104_00006_48727_8523.N1	25-JUN-2011 07:28:39	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	48727	No
87	GOM_TRA_1PNPDK20110625_073109_000000483104_00006_48727_8524.N1	25-JUN-2011 07:31:09	Bright	47.500	160	23Gam Per	2.9300	4700.0	95	48727	No
88	GOM_TRA_1PNPDK20110625_073433_000000463104_00006_48727_8525.N1	25-JUN-2011 07:34:33	Bright	46.000	73	57Gam1And	2.2600	13100.	92	48727	No
89	GOM_TRA_1PNPDK20110625_073701_000000483104_00006_48727_8526.N1	25-JUN-2011 07:37:01	Twi_and_stray	47.500	173	4Bet Tri	3.0040	8900.0	95	48727	No
90	GOM_TRA_1PNPDK20110625_074059_000000513104_00006_48727_8527.N1	25-JUN-2011 07:40:59	Dark	50.500	50	13Alp Ari	2.0070	4250.0	101	48727	No
91	GOM_TRA_1PNPDK20110625_074551_000000423104_00006_48727_8528.N1	25-JUN-2011 07:45:51	Dark	42.000	94	92Alp Cet	2.5260	3100.0	84	48727	No
92	GOM_TRA_1PNPDK20110625_080421_000000473104_00007_48728_8529.N1	25-JUN-2011 08:04:21	Dark	46.500	84	Alp Phe	2.3970	4500.0	93	48728	No
93	GOM_TRA_1PNPDK20110625_081049_000000693104_00007_48728_8530.N1	25-JUN-2011 08:10:49	Straylight	69.000	63	Bet Gru	2.1500	2800.0	138	48728	No
94	GOM_TRA_1PNPDK20110625_081249_000000503104_00007_48728_8531.N1	25-JUN-2011 08:12:49	Straylight	49.500	31	Alp Gru	1.7340	15200.	99	48728	No
95	GOM_TRA_1PNPDK20110625_081541_000000423104_00007_48728_8532.N1	25-JUN-2011 08:15:41	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	48728	No
96	GOM_TRA_1PNPDK20110625_082444_000000453104_00007_48728_8533.N1	25-JUN-2011 08:24:44	Twi_and_stray	44.500	38	20Eps Sgr	1.8360	11000.	89	48728	No
97	GOM_TRA_1PNPDK20110625_082607_000000573104_00007_48728_8534.N1	25-JUN-2011 08:26:07	Bright	57.000	116	19Del Sgr	2.7000	4100.0	114	48728	No
98	GOM_TRA_1PNPDK20110625_082814_000000483104_00007_48728_8535.N1	25-JUN-2011 08:28:14	Bright	47.500	155	41Pi Sgr	2.9000	6600.0	95	48728	No

99	GOM_TRA_1PNPDK20110625_083652_000000393104_00007_48728_8547.N1	25-JUN-2011 08:36:52	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	48728	No
100	GOM_TRA_1PNPDK20110625_083913_000000393104_00007_48728_8548.N1	25-JUN-2011 08:39:13	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	48728	No
101	GOM_TRA_1PNPDK20110625_084833_000000503104_00007_48728_8549.N1	25-JUN-2011 08:48:33	Bright	50.000	5	3Alp Lyr	0.033000	11000.	100	48728	No
102	GOM_TRA_1PNPDK20110625_085046_000000393104_00007_48728_8550.N1	25-JUN-2011 08:50:46	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	48728	No
103	GOM_TRA_1PNPDK20110625_090011_000000493104_00007_48728_8551.N1	25-JUN-2011 09:00:11	Bright	49.000	89	5Alp Cep	2.4510	8000.0	98	48728	No
104	GOM_TRA_1PNPDK20110625_090717_000000483104_00007_48728_8552.N1	25-JUN-2011 09:07:17	Bright	48.000	74	11Bet Cas	2.2680	6600.0	96	48728	No
105	GOM_TRA_1PNPDK20110625_090852_000000483104_00007_48728_8553.N1	25-JUN-2011 09:08:52	Bright	48.000	68	18Alp Cas	2.2250	4500.0	96	48728	No
106	GOM_TRA_1PNPDK20110625_091123_000000483104_00007_48728_8554.N1	25-JUN-2011 09:11:23	Bright	47.500	160	23Gam Per	2.9300	4700.0	95	48728	No
107	GOM_TRA_1PNPDK20110625_091446_000000443104_00007_48728_8555.N1	25-JUN-2011 09:14:46	Bright	43.500	73	57Gam1And	2.2600	13100.	87	48728	No
108	GOM_TRA_1PNPDK20110625_091715_000000473104_00007_48728_8556.N1	25-JUN-2011 09:17:15	Twi_and_stray	47.000	173	4Bet Tri	3.0040	8900.0	94	48728	No
109	GOM_TRA_1PNPDK20110625_092113_000000523104_00007_48728_8557.N1	25-JUN-2011 09:21:13	Dark	51.500	50	13Alp Ari	2.0070	4250.0	103	48728	No
110	GOM_TRA_1PNPDK20110625_092606_000000463104_00007_48728_8558.N1	25-JUN-2011 09:26:06	Dark	46.000	94	92Alp Cet	2.5260	3100.0	92	48728	No
111	GOM_TRA_1PNPDK20110625_094436_000000603104_00008_48729_8559.N1	25-JUN-2011 09:44:36	Dark	59.500	84	Alp Phe	2.3970	4500.0	119	48729	No
112	GOM_TRA_1PNPDK20110625_095104_000000643104_00008_48729_8560.N1	25-JUN-2011 09:51:04	Straylight	63.500	63	Bet Gru	2.1500	2800.0	127	48729	No
113	GOM_TRA_1PNPDK20110625_095304_000000513104_00008_48729_8561.N1	25-JUN-2011 09:53:04	Straylight	51.000	31	Alp Gru	1.7340	15200.	102	48729	No
114	GOM_TRA_1PNPDK20110625_095555_000000443104_00008_48729_8562.N1	25-JUN-2011 09:55:55	Straylight	44.000	45	Alp Pav	1.9400	26000.	88	48729	No
115	GOM_TRA_1PNPDK20110625_100458_000000453104_00008_48729_8563.N1	25-JUN-2011 10:04:58	Twi_and_stray	45.000	38	20Eps Sgr	1.8360	11000.	90	48729	No
116	GOM_TRA_1PNPDK20110625_100622_000000453104_00008_48729_8564.N1	25-JUN-2011 10:06:22	Bright	44.500	116	19Del Sgr	2.7000	4100.0	89	48729	No
117	GOM_TRA_1PNPDK20110625_100829_000000483104_00008_48729_8565.N1	25-JUN-2011 10:08:29	Bright	47.500	155	41Pi Sgr	2.9000	6600.0	95	48729	No
118	GOM_TRA_1PNPDK20110625_101705_000000403104_00008_48729_8680.N1	25-JUN-2011 10:17:05	Bright	39.500	126	60Bet Oph	2.7700	4250.0	79	48729	No
119	GOM_TRA_1PNPDK20110625_101927_000000413104_00008_48729_8681.N1	25-JUN-2011 10:19:27	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	48729	No
120	GOM_TRA_1PNPDK20110625_102846_000000523104_00008_48729_8682.N1	25-JUN-2011 10:28:46	Bright	52.000	5	3Alp Lyr	0.033000	11000.	104	48729	No
121	GOM_TRA_1PNPDK20110625_103059_000000403104_00008_48729_8683.N1	25-JUN-2011 10:30:59	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	48729	No
122	GOM_TRA_1PNPDK20110625_104024_000000483104_00008_48729_8684.N1	25-JUN-2011 10:40:24	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	48729	No
123	GOM_TRA_1PNPDK20110625_104731_000000473104_00008_48729_8685.N1	25-JUN-2011 10:47:31	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	48729	No
124	GOM_TRA_1PNPDK20110625_104906_000000463104_00008_48729_8686.N1	25-JUN-2011 10:49:06	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	48729	No
125	GOM_TRA_1PNPDK20110625_105137_000000383104_00008_48729_8687.N1	25-JUN-2011 10:51:37	Bright	37.500	160	23Gam Per	2.9300	4700.0	75	48729	No
126	GOM_TRA_1PNPDK20110625_105500_000000463104_00008_48729_8688.N1	25-JUN-2011 10:55:00	Bright	45.500	73	57Gam1And	2.2600	13100.	91	48729	No
127	GOM_TRA_1PNPDK20110625_105729_000000473104_00008_48729_8689.N1	25-JUN-2011 10:57:29	Twi_and_stray	46.500	173	4Bet Tri	3.0040	8900.0	93	48729	No
128	GOM_TRA_1PNPDK20110625_110127_000000543104_00008_48729_8690.N1	25-JUN-2011 11:01:27	Dark	53.500	50	13Alp Ari	2.0070	4250.0	107	48729	No
129	GOM_TRA_1PNPDK20110625_110620_000000473104_00008_48729_8691.N1	25-JUN-2011 11:06:20	Dark	46.500	94	92Alp Cet	2.5260	3100.0	93	48729	No
130	GOM_TRA_1PNPDK20110625_112451_000000483104_00009_48730_8692.N1	25-JUN-2011 11:24:51	Dark	48.000	84	Alp Phe	2.3970	4500.0	96	48730	No
131	GOM_TRA_1PNPDK20110625_113119_000000523104_00009_48730_8693.N1	25-JUN-2011 11:31:19	Straylight	52.000	63	Bet Gru	2.1500	2800.0	104	48730	No
132	GOM_TRA_1PNPDK20110625_113319_000000513104_00009_48730_8694.N1	25-JUN-2011 11:33:19	Straylight	50.500	31	Alp Gru	1.7340	15200.	101	48730	No
133	GOM_TRA_1PNPDK20110625_113610_000000443104_00009_48730_8695.N1	25-JUN-2011 11:36:10	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	48730	No
134	GOM_TRA_1PNPDK20110625_114512_000000453104_00009_48730_8696.N1	25-JUN-2011 11:45:12	Twi_and_stray	45.000	38	20Eps Sgr	1.8360	11000.	90	48730	No
135	GOM_TRA_1PNPDK20110625_114636_000000573104_00009_48730_8697.N1	25-JUN-2011 11:46:36	Bright	57.000	116	19Del Sgr	2.7000	4100.0	114	48730	No
136	GOM_TRA_1PNPDK20110625_114843_000000473104_00009_48730_8698.N1	25-JUN-2011 11:48:43	Bright	46.500	155	41Pi Sgr	2.9000	6600.0	93	48730	No
137	GOM_TRA_1PNPDK20110625_115719_000000403104_00009_48730_8754.N1	25-JUN-2011 11:57:19	Bright	39.500	126	60Bet Oph	2.7700	4250.0	79	48730	No
138	GOM_TRA_1PNPDK20110625_115941_000000383104_00009_48730_8755.N1	25-JUN-2011 11:59:41	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	48730	No
139	GOM_TRA_1PNPDK20110625_120859_000000463104_00009_48730_8756.N1	25-JUN-2011 12:08:59	Bright	45.500	5	3Alp Lyr	0.033000	11000.	91	48730	No
140	GOM_TRA_1PNPDK20110625_121113_000000413104_00009_48730_8757.N1	25-JUN-2011 12:11:13	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	48730	No
141	GOM_TRA_1PNPDK20110625_122037_000000473104_00009_48730_8758.N1	25-JUN-2011 12:20:37	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	48730	No
142	GOM_TRA_1PNPDK20110625_122744_000000483104_00009_48730_8759.N1	25-JUN-2011 12:27:44	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	48730	No
143	GOM_TRA_1PNPDK20110625_122920_000000613104_00009_48730_8760.N1	25-JUN-2011 12:29:20	Bright	60.500	68	18Alp Cas	2.2250	4500.0	121	48730	No
144	GOM_TRA_1PNPDK20110625_123151_000000423104_00009_48730_8761.N1	25-JUN-2011 12:31:51	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	48730	No
145	GOM_TRA_1PNPDK20110625_123514_000000473104_00009_48730_8762.N1	25-JUN-2011 12:35:14	Bright	47.000	73	57Gam1And	2.2600	13100.	94	48730	No
146	GOM_TRA_1PNPDK20110625_123743_000000483104_00009_48730_8763.N1	25-JUN-2011 12:37:43	Twi_and_stray	48.000	173	4Bet Tri	3.0040	8900.0	96	48730	No
147	GOM_TRA_1PNPDK20110625_124141_000000523104_00009_48730_8764.N1	25-JUN-2011 12:41:41	Dark	52.000	50	13Alp Ari	2.0070	4250.0	104	48730	No
148	GOM_TRA_1PNPDK20110625_124634_000000453104_00009_48730_8765.N1	25-JUN-2011 12:46:34	Dark	45.000	94	92Alp Cet	2.5260	3100.0	90	48730	No
149	GOM_TRA_1PNPDK20110625_130506_000000483104_00010_48731_8766.N1	25-JUN-2011 13:05:06	Dark	48.000	84	Alp Phe	2.3970	4500.0	96	48731	No
150	GOM_TRA_1PNPDK20110625_131134_000000513104_00010_48731_8767.N1	25-JUN-2011 13:11:34	Straylight	51.000	63	Bet Gru	2.1500	2800.0	102	48731	No
151	GOM_TRA_1PNPDK20110625_131334_000000533104_00010_48731_8768.N1	25-JUN-2011 13:13:34	Straylight	52.500	31	Alp Gru	1.7340	15200.	105	48731	No
152	GOM_TRA_1PNPDK20110625_131624_000000423104_00010_48731_8769.N1	25-JUN-2011 13:16:24	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	48731	No
153	GOM_TRA_1PNPDK20110625_132526_000000463104_00010_48731_8770.N1	25-JUN-2011 13:25:26	Twi_and_stray	46.000	38	20Eps Sgr	1.8360	11000.	92	48731	No
154	GOM_TRA_1PNPDK20110625_132650_000000493104_00010_48731_8771.N1	25-JUN-2011 13:26:50	Bright	49.000	116	19Del Sgr	2.7000	4100.0	98	48731	No
155	GOM_TRA_1PNPDK20110625_132857_000000473104_00010_48731_8772.N1	25-JUN-2011 13:28:57	Bright	47.000	155	41Pi Sgr	2.9000	6600.0	94	48731	No
156	GOM_TRA_1PNPDK20110625_133733_000000403104_00010_48731_9077.N1	25-JUN-2011 13:37:33	Bright	40.000	126	60Bet Oph	2.7700	4250.0	80	48731	No
157	GOM_TRA_1PNPDK20110625_133955_000000403104_00010_48731_9078.N1	25-JUN-2011 13:39:55	Bright	39.500	59	55Alp Oph	2.0800	8900.0	79	48731	No

158	GOM_TRA_1PNPDK20110625_134913_000000433104_00010_48731_9079.N1	25-JUN-2011 13:49:13	Bright	43.000	5	3Alp Lyr	0.033000	11000.	86	48731	No
159	GOM_TRA_1PNPDK20110625_135127_000000383104_00010_48731_9080.N1	25-JUN-2011 13:51:27	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	48731	No
160	GOM_TRA_1PNPDK20110625_140051_000000393104_00010_48731_9081.N1	25-JUN-2011 14:00:51	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	48731	No
161	GOM_TRA_1PNPDE20110625_213249_000000623104_00015_48736_8407.N1	25-JUN-2011 21:32:49	Straylight	61.500	63	Bet Gru	2.1500	2800.0	123	48736	No
162	GOM_TRA_1PNPDE20110625_213448_000000503104_00015_48736_8408.N1	25-JUN-2011 21:34:48	Straylight	49.500	31	Alp Gru	1.7340	15200.	99	48736	No
163	GOM_TRA_1PNPDE20110625_213737_000000443104_00015_48736_8409.N1	25-JUN-2011 21:37:37	Straylight	44.000	45	Alp Pav	1.9400	26000.	88	48736	No
164	GOM_TRA_1PNPDE20110625_214638_000000443104_00015_48736_8410.N1	25-JUN-2011 21:46:38	Twi_and_stray	43.500	38	20Eps Sgr	1.8360	11000.	87	48736	No
165	GOM_TRA_1PNPDE20110625_214801_000000523104_00015_48736_8411.N1	25-JUN-2011 21:48:01	Bright	52.000	116	19Del Sgr	2.7000	4100.0	104	48736	No
166	GOM_TRA_1PNPDE20110625_215008_000000483104_00015_48736_8412.N1	25-JUN-2011 21:50:08	Bright	47.500	155	41Pi Sgr	2.9000	6600.0	95	48736	No
167	GOM_TRA_1PNPDE20110625_215843_000000383104_00015_48736_8413.N1	25-JUN-2011 21:58:43	Bright	38.000	126	60Bet Oph	2.7700	4250.0	76	48736	No
168	GOM_TRA_1PNPDE20110625_220104_000000383104_00015_48736_8414.N1	25-JUN-2011 22:01:04	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	48736	No
169	GOM_TRA_1PNPDE20110625_221020_000000453104_00015_48736_8415.N1	25-JUN-2011 22:10:20	Bright	44.500	5	3Alp Lyr	0.033000	11000.	89	48736	No
170	GOM_TRA_1PNPDE20110625_221235_000000393104_00015_48736_8416.N1	25-JUN-2011 22:12:35	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	48736	No
171	GOM_TRA_1PNPDE20110625_222157_000000493104_00015_48736_8417.N1	25-JUN-2011 22:21:57	Bright	48.500	89	5Alp Cep	2.4510	8000.0	97	48736	No
172	GOM_TRA_1PNPDE20110625_222905_000000473104_00015_48736_8418.N1	25-JUN-2011 22:29:05	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	48736	No
173	GOM_TRA_1PNPDE20110625_223042_000000483104_00015_48736_8419.N1	25-JUN-2011 22:30:42	Bright	48.000	68	18Alp Cas	2.2250	4500.0	96	48736	No
174	GOM_TRA_1PNPDE20110625_223315_000000553104_00015_48736_8420.N1	25-JUN-2011 22:33:15	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	48736	No
175	GOM_TRA_1PNPDE20110625_223638_000000463104_00015_48736_8421.N1	25-JUN-2011 22:36:38	Bright	45.500	73	57Gam1And	2.2600	13100.	91	48736	No
176	GOM_TRA_1PNPDE20110625_223908_000000463104_00015_48736_8422.N1	25-JUN-2011 22:39:08	Twi_and_stray	45.500	173	4Bet Tri	3.0040	8900.0	91	48736	No
177	GOM_TRA_1PNPDE20110625_224307_000000553104_00015_48736_8423.N1	25-JUN-2011 22:43:07	Dark	54.500	50	13Alp Ari	2.0070	4250.0	109	48736	No
178	GOM_TRA_1PNPDE20110625_224800_000000363104_00015_48736_8424.N1	25-JUN-2011 22:48:00	Dark	36.000	94	92Alp Cet	2.5260	3100.0	72	48736	No
179	GOM_TRA_1PNPDE20110625_230635_000000483104_00016_48737_8429.N1	25-JUN-2011 23:06:35	Dark	47.500	84	Alp Phe	2.3970	4500.0	95	48737	No
180	GOM_TRA_1PNPDE20110625_231304_000000543104_00016_48737_8430.N1	25-JUN-2011 23:13:04	Straylight	54.000	63	Bet Gru	2.1500	2800.0	108	48737	No
181	GOM_TRA_1PNPDE20110625_231503_000000513104_00016_48737_8431.N1	25-JUN-2011 23:15:03	Straylight	50.500	31	Alp Gru	1.7340	15200.	101	48737	No
182	GOM_TRA_1PNPDE20110625_231751_000000413104_00016_48737_8432.N1	25-JUN-2011 23:17:51	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	48737	No
183	GOM_TRA_1PNPDE20110625_232652_000000463104_00016_48737_8433.N1	25-JUN-2011 23:26:52	Twi_and_stray	45.500	38	20Eps Sgr	1.8360	11000.	91	48737	No
184	GOM_TRA_1PNPDE20110625_232815_000000553104_00016_48737_8434.N1	25-JUN-2011 23:28:15	Bright	55.000	116	19Del Sgr	2.7000	4100.0	110	48737	No
185	GOM_TRA_1PNPDE20110625_233022_000000483104_00016_48737_8435.N1	25-JUN-2011 23:30:22	Bright	48.000	155	41Pi Sgr	2.9000	6600.0	96	48737	No
186	GOM_TRA_1PNPDE20110625_233857_000000383104_00016_48737_8436.N1	25-JUN-2011 23:38:57	Bright	38.000	126	60Bet Oph	2.7700	4250.0	76	48737	No
187	GOM_TRA_1PNPDE20110625_234118_000000393104_00016_48737_8437.N1	25-JUN-2011 23:41:18	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	48737	No
188	GOM_TRA_1PNPDE20110625_235033_000000423104_00016_48737_8438.N1	25-JUN-2011 23:50:33	Bright	42.000	5	3Alp Lyr	0.033000	11000.	84	48737	No
189	GOM_TRA_1PNPDE20110625_235249_000000383104_00016_48737_8439.N1	25-JUN-2011 23:52:49	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	48737	No

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





4. Overview of dark signal processing per product

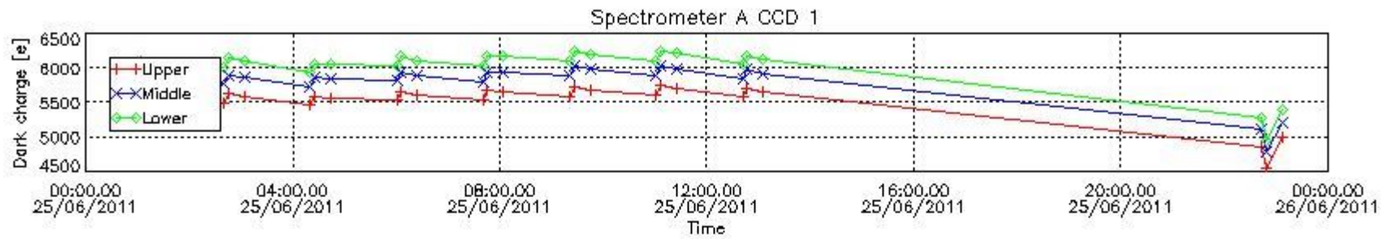
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

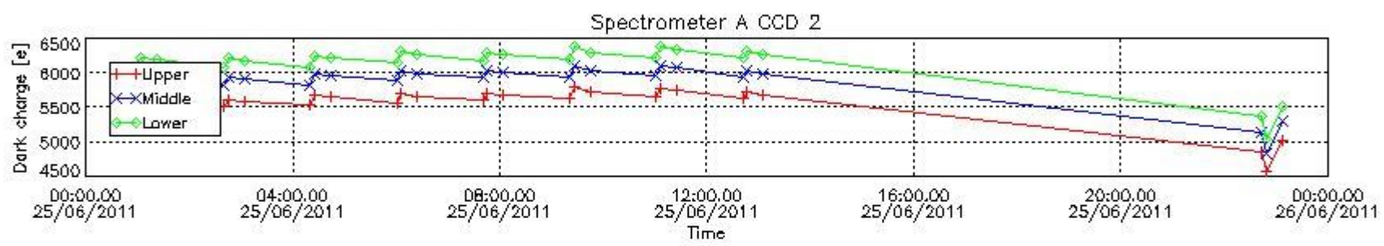
4.1 These products did not use the DSA observation for DC computation:

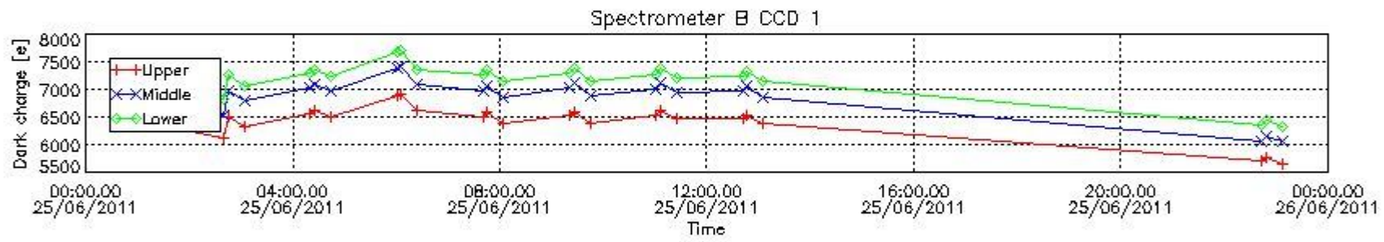
Product name	DC information
GOM_TRA_1PNPDK20110625_133733_000000403104_00010_48731_9077.N1	DC map used
GOM_TRA_1PNPDK20110625_133955_000000403104_00010_48731_9078.N1	DC map used
GOM_TRA_1PNPDK20110625_134913_000000433104_00010_48731_9079.N1	DC map used
GOM_TRA_1PNPDK20110625_135127_000000383104_00010_48731_9080.N1	DC map used
GOM_TRA_1PNPDK20110625_140051_000000393104_00010_48731_9081.N1	DC map used
GOM_TRA_1PNPDE20110625_213249_000000623104_00015_48736_8407.N1	DC map used
GOM_TRA_1PNPDE20110625_213448_000000503104_00015_48736_8408.N1	DC map used
GOM_TRA_1PNPDE20110625_213737_000000443104_00015_48736_8409.N1	DC map used
GOM_TRA_1PNPDE20110625_214638_000000443104_00015_48736_8410.N1	DC map used
GOM_TRA_1PNPDE20110625_214801_000000523104_00015_48736_8411.N1	DC map used
GOM_TRA_1PNPDE20110625_215008_000000483104_00015_48736_8412.N1	DC map used
GOM_TRA_1PNPDE20110625_215843_000000383104_00015_48736_8413.N1	DC map used
GOM_TRA_1PNPDE20110625_220104_000000383104_00015_48736_8414.N1	DC map used
GOM_TRA_1PNPDE20110625_221020_000000453104_00015_48736_8415.N1	DC map used

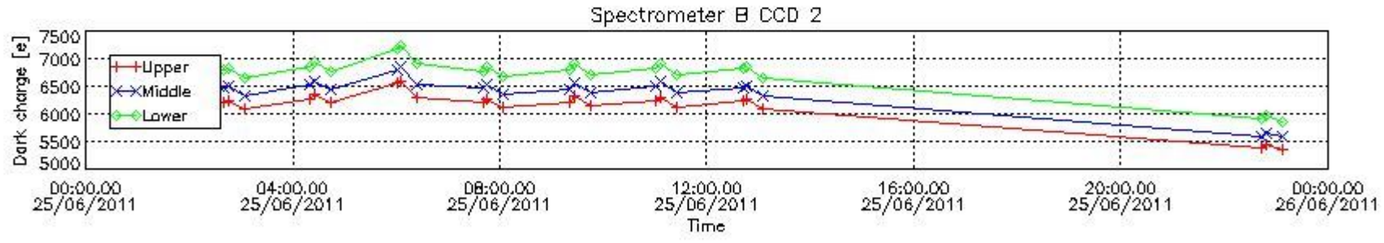
GOM_TRA_1PNPDE20110625_221235_000000393104_00015_48736_8416.N1	DC map used
GOM_TRA_1PNPDE20110625_222157_000000493104_00015_48736_8417.N1	DC map used
GOM_TRA_1PNPDE20110625_222905_000000473104_00015_48736_8418.N1	DC map used
GOM_TRA_1PNPDE20110625_223042_000000483104_00015_48736_8419.N1	DC map used
GOM_TRA_1PNPDE20110625_223315_000000553104_00015_48736_8420.N1	DC map used
GOM_TRA_1PNPDE20110625_223638_000000463104_00015_48736_8421.N1	DC map used
GOM_TRA_1PNPDE20110625_223908_000000463104_00015_48736_8422.N1	DC map used
GOM_TRA_1PNPDE20110625_224307_000000553104_00015_48736_8423.N1	DC map used
GOM_TRA_1PNPDE20110625_224800_000000363104_00015_48736_8424.N1	DC map used

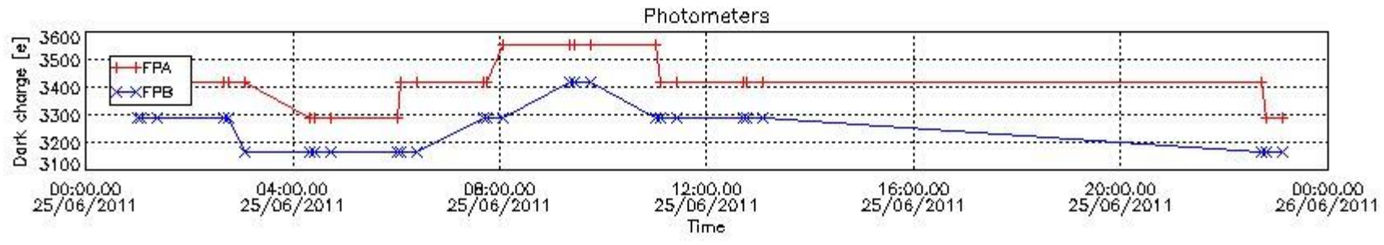
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











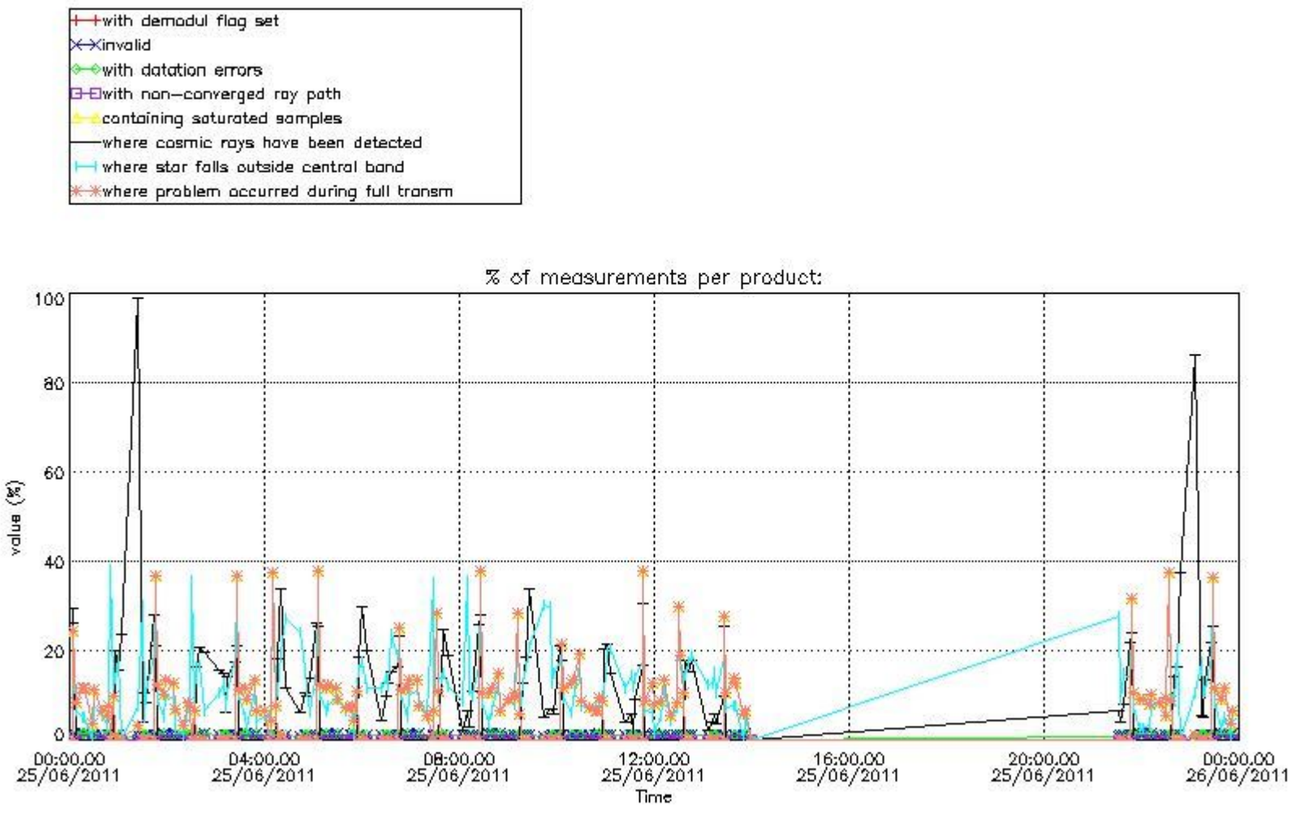
5. Demodulation flag and quality information monitoring

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:

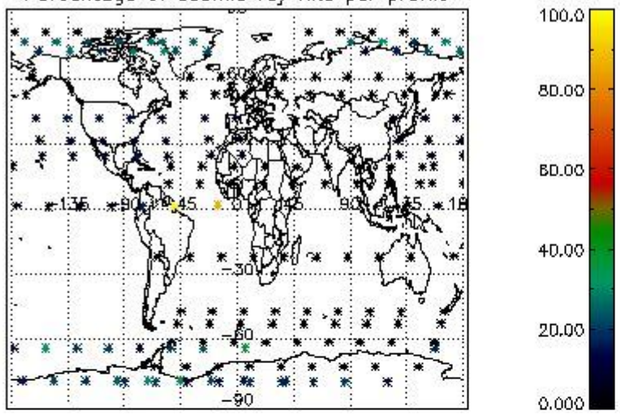
At least one measurement with demodulation flag set:	40.2116 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	59.2593 %

5.2 Plot quality information per product (time dependant)

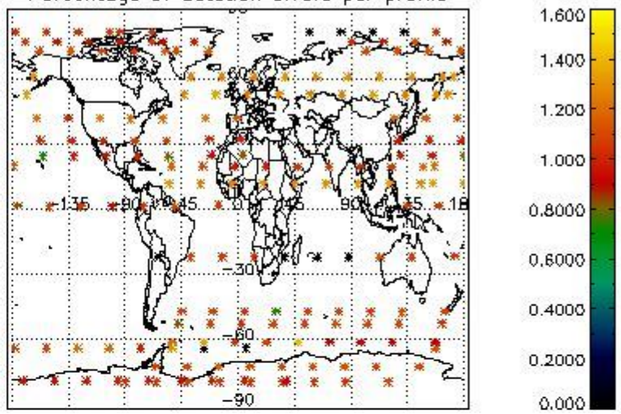


5.3 Plot quality information per product (world map)

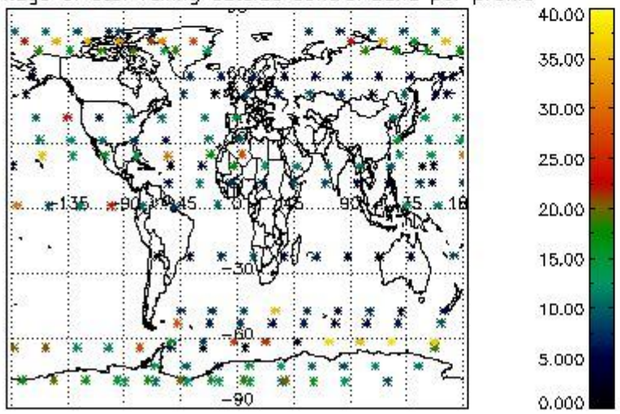
Percentage of cosmic ray hits per profile



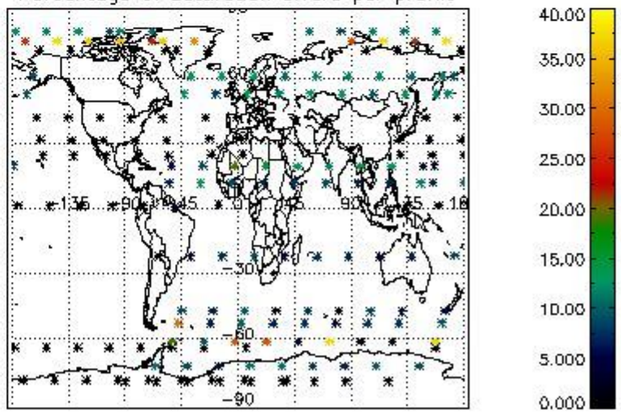
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



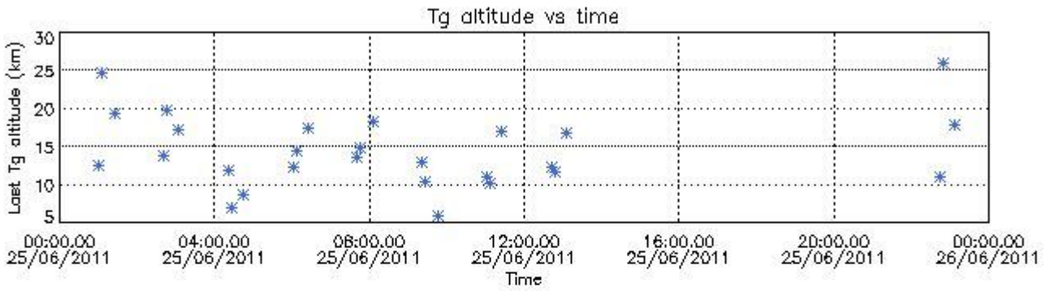
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

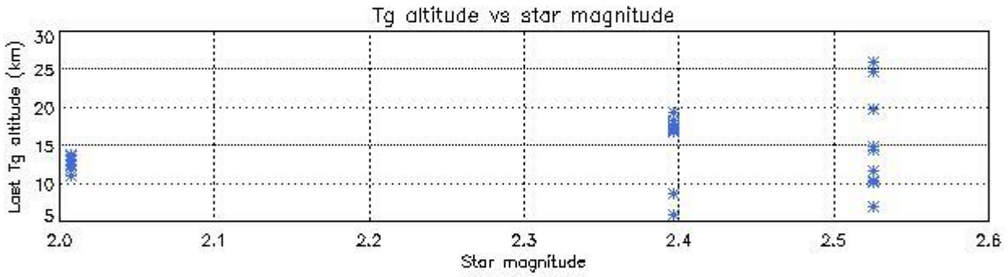
6.1 Statistics on tangent altitude lost:

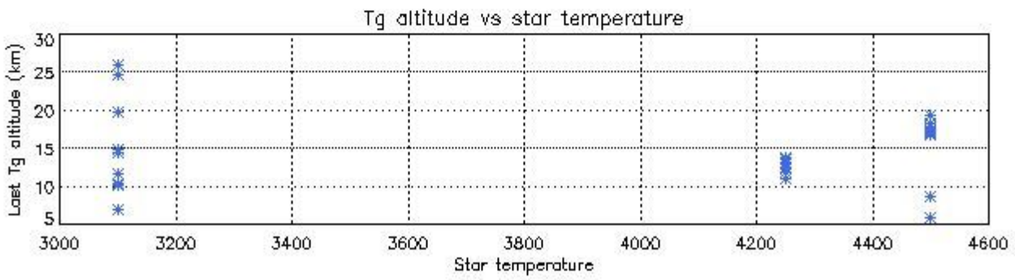
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.387	18.162	NaN
St. deviation:	4.7904	6.1017	NaN
Maximum:	25.945	37.441	NaN
Minimum:	5.8871	3.5809	NaN
Number of data:	27.000	112.00	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

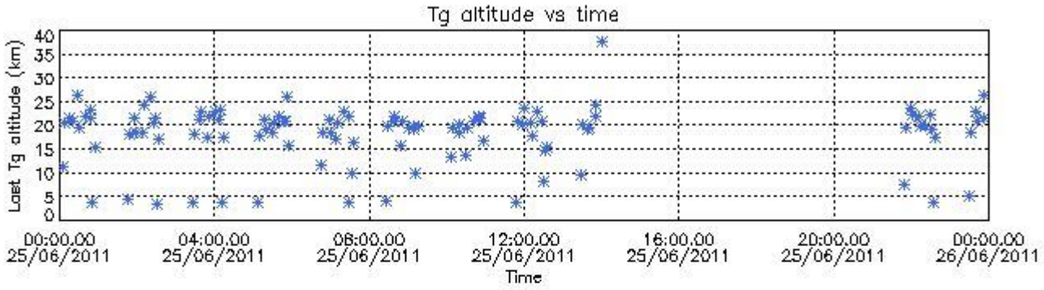


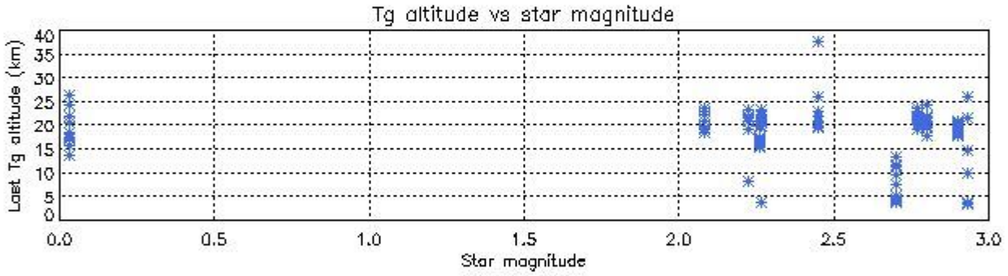


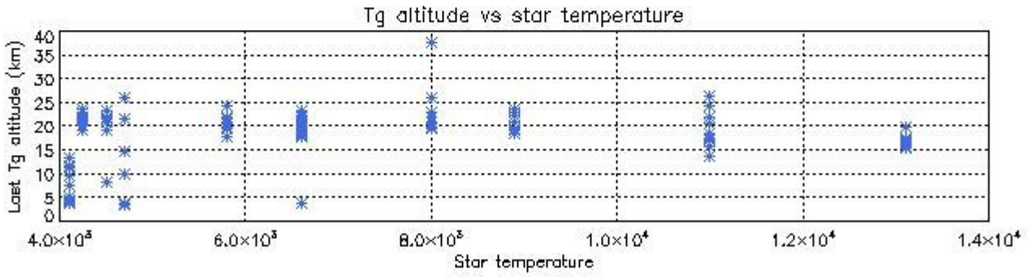


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost





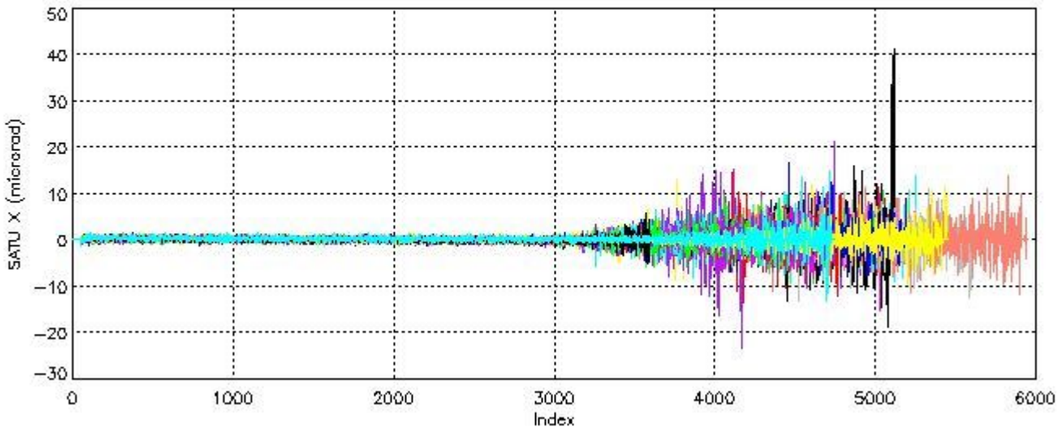


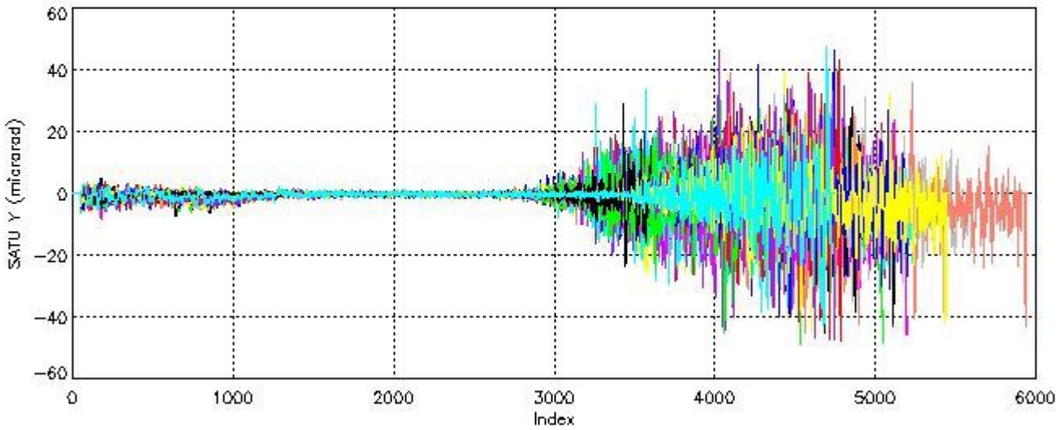
7. Star Acquisition and Tracking Unit (SATU)

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:	0.15536	-0.99163	0.26235	-1.2140
St. deviation:	0.29120	1.2129	0.65008	1.4715
Maximum:	1.7000	4.9000	5.9000	6.5000
Minimum:	-1.4000	-8.2000	-4.0000	-9.8000

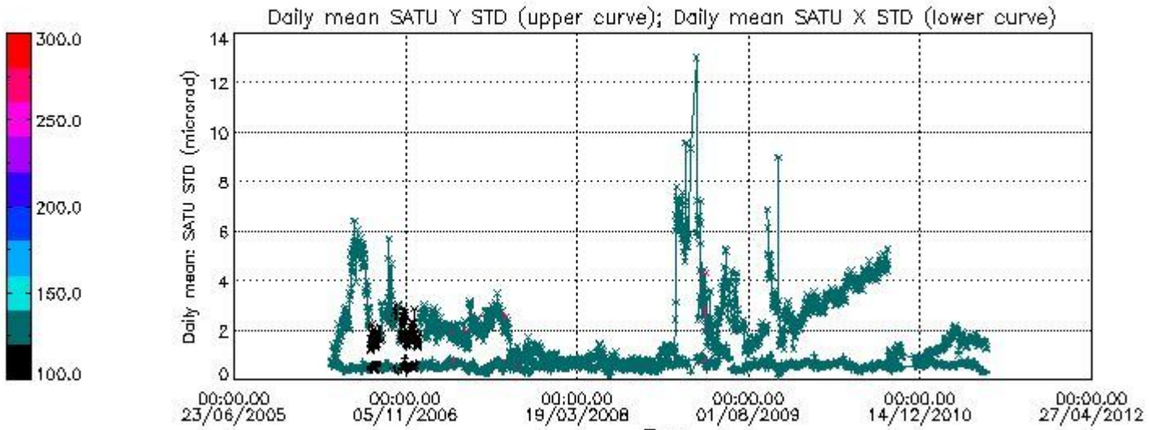
Number of data:	27400.	27400.	1.1425E+05	1.1425E+05
90Percentile:	0.50000	0.30000	1.1000	0.50000

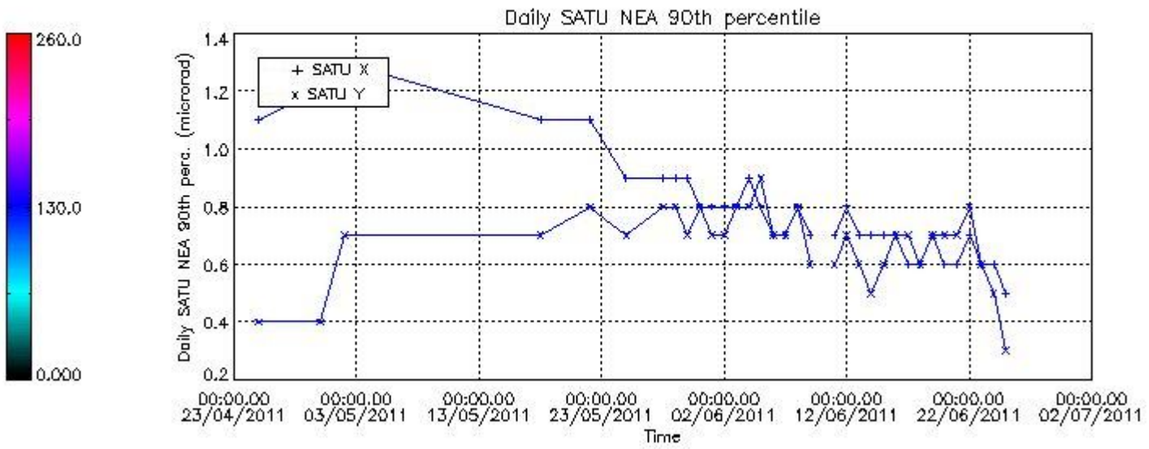
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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

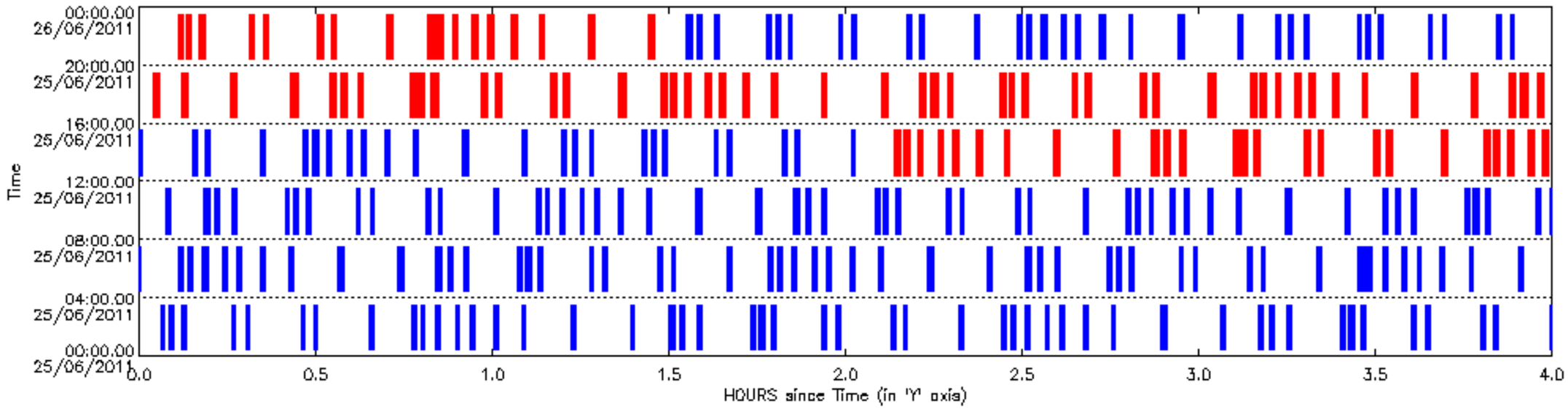


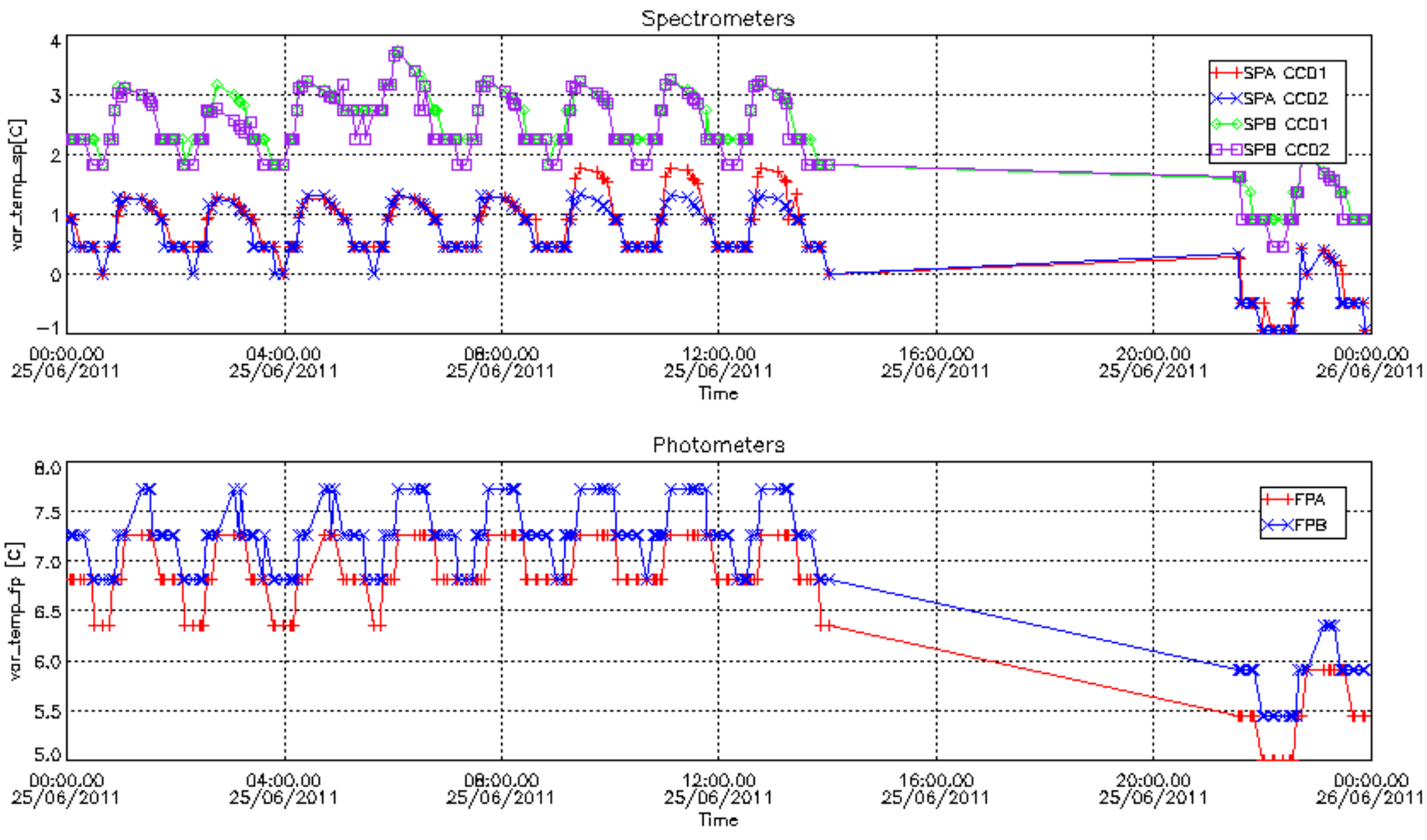


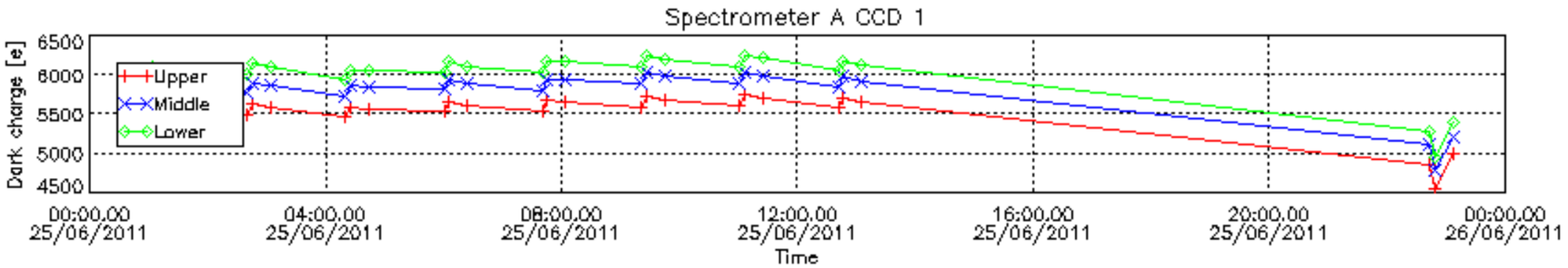
8. Auxiliary Data Files used for the production reported in section 2.4

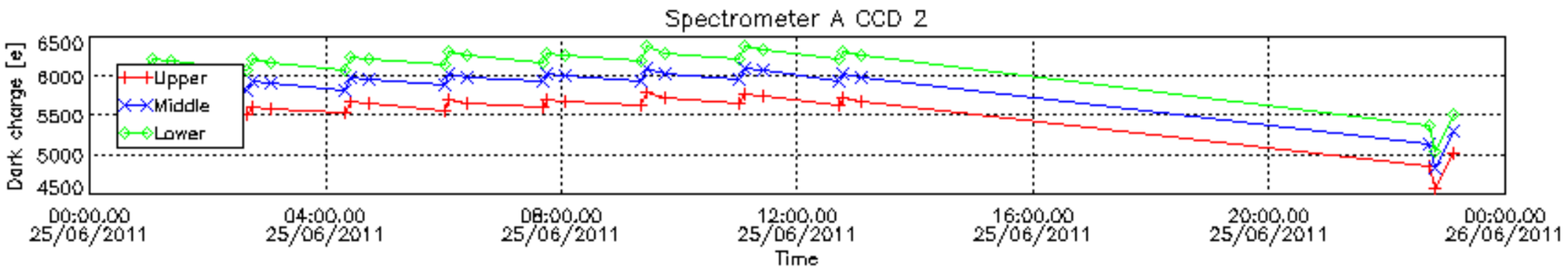
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

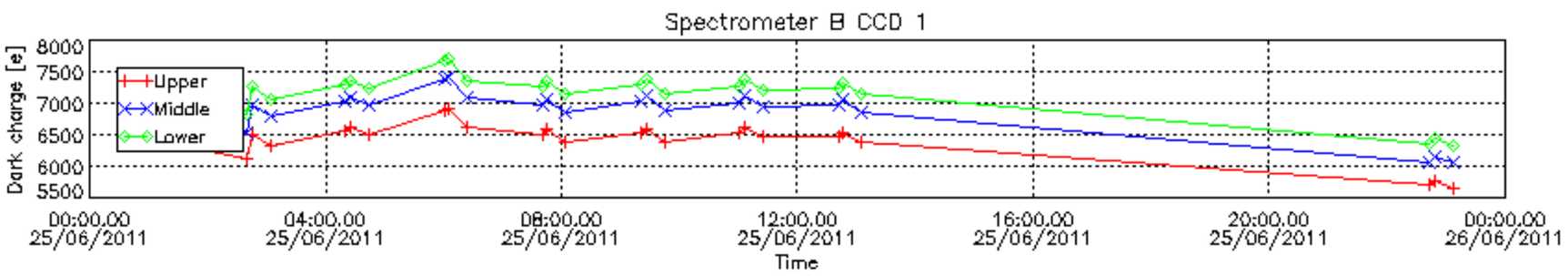
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	25-JUN-2011 00:03:32
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110622_075744_20110621_000000_20500101_000000	1	25-JUN-2011 00:03:32
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20110513_081743_20020301_000000_20500101_000000	1	25-JUN-2011 00:03:32
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-JUN-2011 00:03:32
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	25-JUN-2011 00:03:32
ECMWF_FILE	AUX_ECF_AXNECM20110624_062115_20110624_210000_20110625_090000	1	25-JUN-2011 00:03:32
ECMWF_FILE	AUX_ECF_AXNECM20110624_182113_20110625_030000_20110625_150000	47	25-JUN-2011 04:06:36
ECMWF_FILE	AUX_ECA_AXNECM20110625_060110_20110624_210000_20110625_090000	66	25-JUN-2011 05:46:50
ECMWF_FILE	AUX_ECF_AXNECM20110624_182113_20110625_030000_20110625_150000	99	25-JUN-2011 08:36:52
ECMWF_FILE	AUX_ECF_AXNECM20110625_060111_20110625_090000_20110625_210000	118	25-JUN-2011 10:17:05
ECMWF_FILE	AUX_ECA_AXNECM20110625_180112_20110625_090000_20110625_210000	156	25-JUN-2011 13:37:33
ECMWF_FILE	AUX_ECF_AXNECM20110625_064111_20110625_210000_20110626_090000	161	25-JUN-2011 21:32:49
OPTIONAL_ECMWF_FILE	MISSING	1	25-JUN-2011 00:03:32
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110623_221707_20110623_191851_20110703_213239	1	25-JUN-2011 00:03:32
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110625_102110_20110624_184207_20110704_205555	118	25-JUN-2011 10:17:05

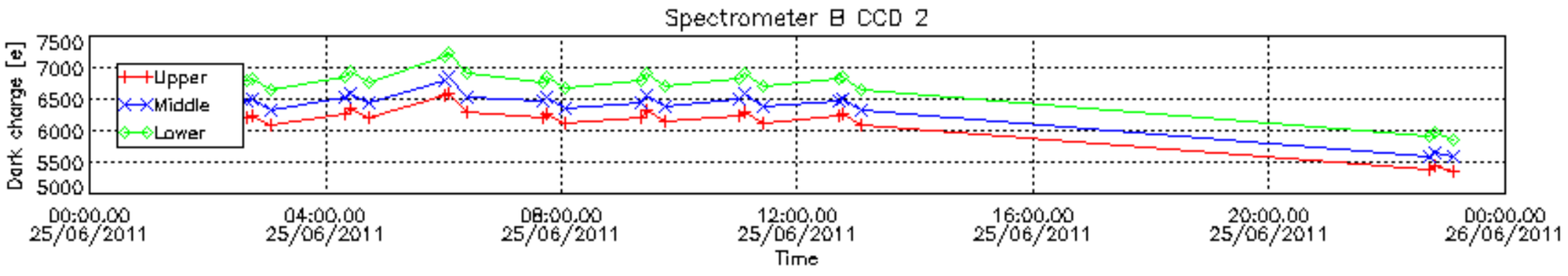

00:00.00
26/06/2011
20:00.00
25/06/2011
16:00.00
25/06/2011
12:00.00
25/06/2011
08:00.00
25/06/2011
04:00.00
25/06/2011
00:00.00
25/06/2011
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

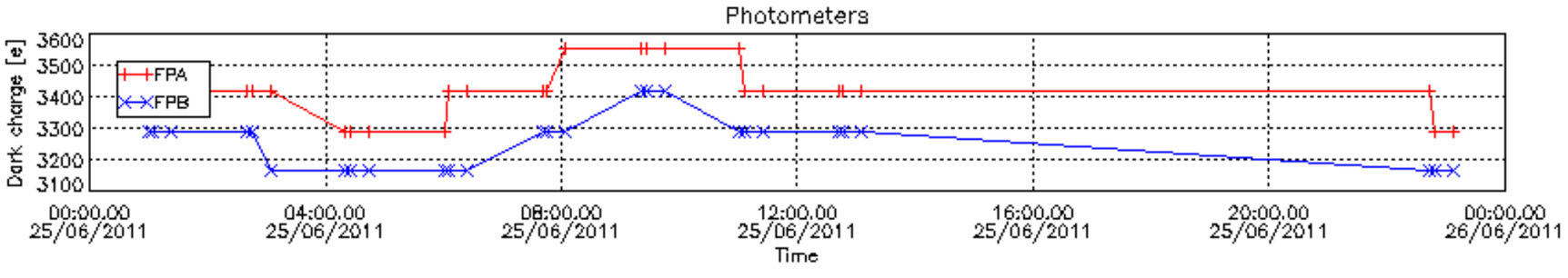

Spectrometers
var_temp_sp[C]
4
3
2
1
0
−1
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
25/06/2011
04:00.00
25/06/2011
08:00.00
25/06/2011
12:00.00
25/06/2011
16:00.00
25/06/2011
20:00.00
25/06/2011
00:00.00
26/06/2011
Time
Photometers
var_temp_fp [C]
8.0
7.5
7.0
6.5
6.0
5.5
5.0
FPA
FPB
00:00.00
25/06/2011
04:00.00
25/06/2011
08:00.00
25/06/2011
12:00.00
25/06/2011
16:00.00
25/06/2011
20:00.00
25/06/2011
00:00.00
26/06/2011
Time

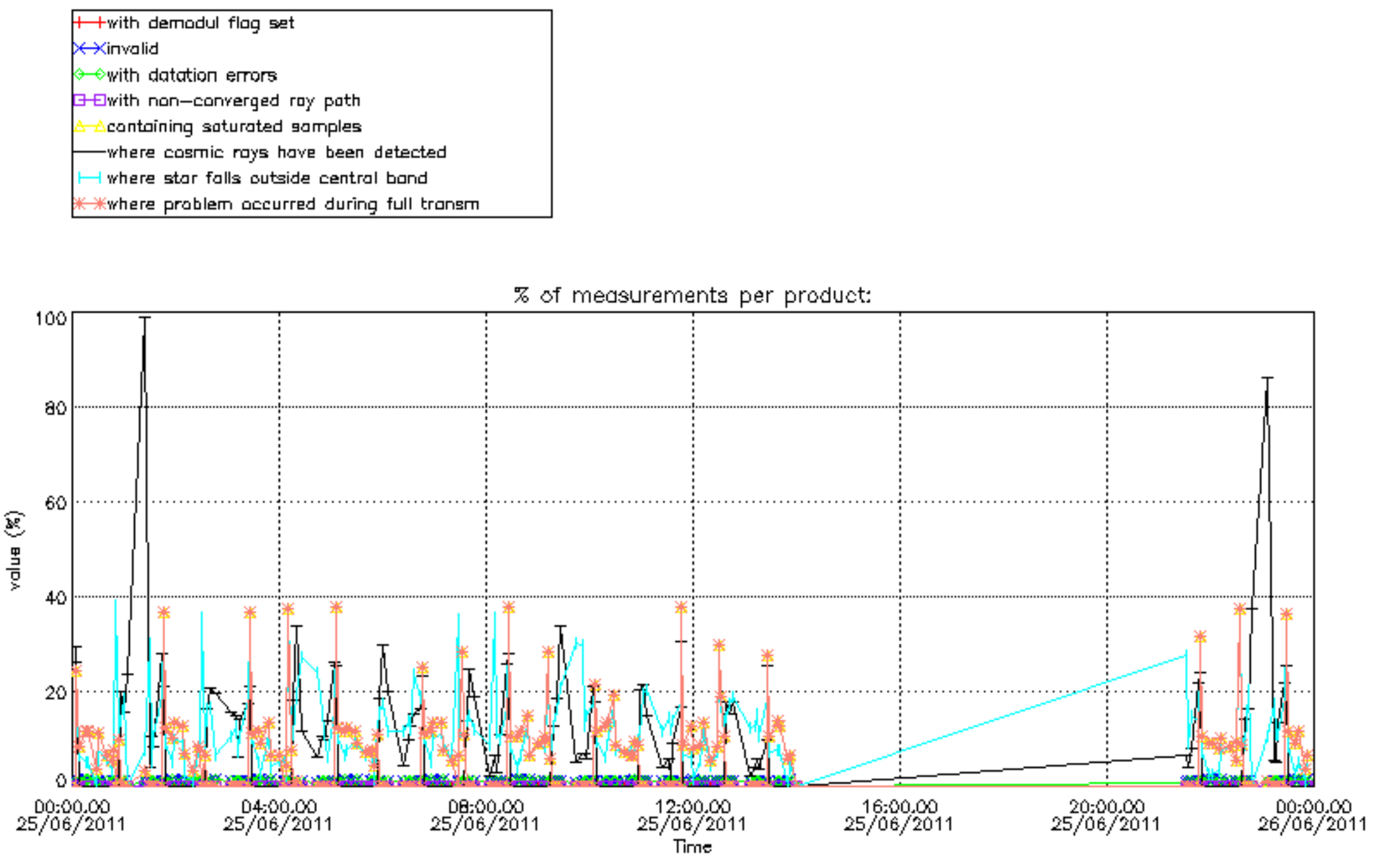

Spectrometer A CCD 1
Dark charge [e]
6500
6000
5500
5000
4500
Upper
Middle
Lower
00:00.00 25/06/2011
04:00.00 25/06/2011
08:00.00 25/06/2011
12:00.00 25/06/2011
16:00.00 25/06/2011
20:00.00 25/06/2011
00:00.00 26/06/2011
Time

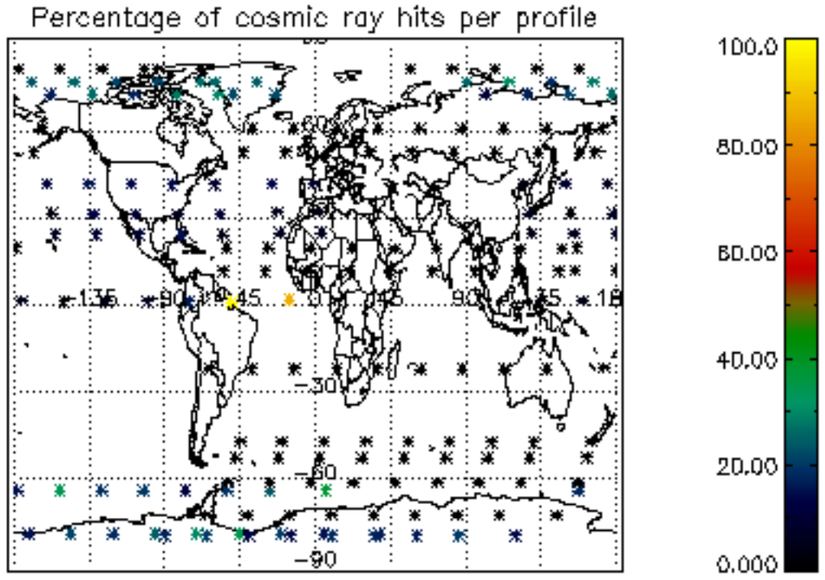

Spectrometer A CCD 2
Dark charge [e]
6500
6000
5500
5000
4500
Upper
Middle
Lower
00:00.00 25/06/2011
04:00.00 25/06/2011
08:00.00 25/06/2011
12:00.00 25/06/2011
16:00.00 25/06/2011
20:00.00 25/06/2011
00:00.00 26/06/2011
Time

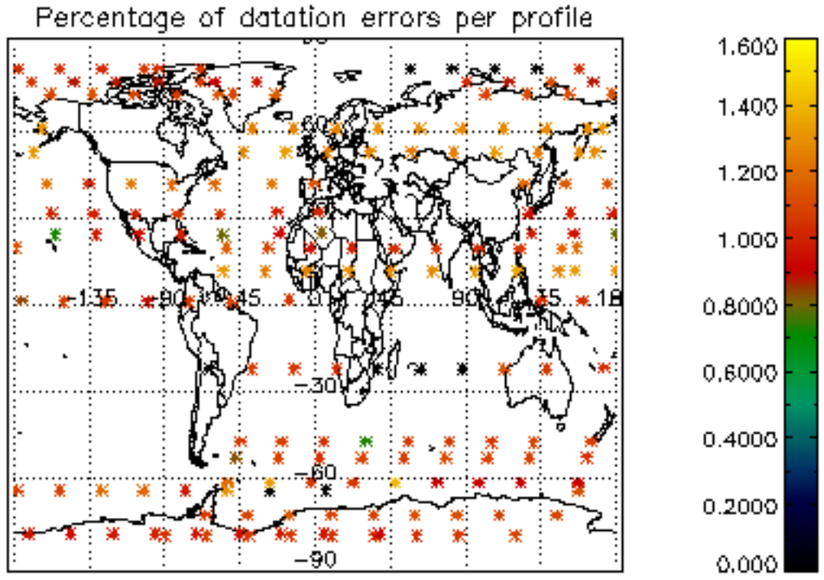

Spectrometer B CCD 1
Dark charge [e]
8000
7500
7000
6500
6000
5500
Upper
Middle
Lower
00:00.00 25/06/2011
04:00.00 25/06/2011
08:00.00 25/06/2011
12:00.00 25/06/2011
16:00.00 25/06/2011
20:00.00 25/06/2011
00:00.00 26/06/2011
Time

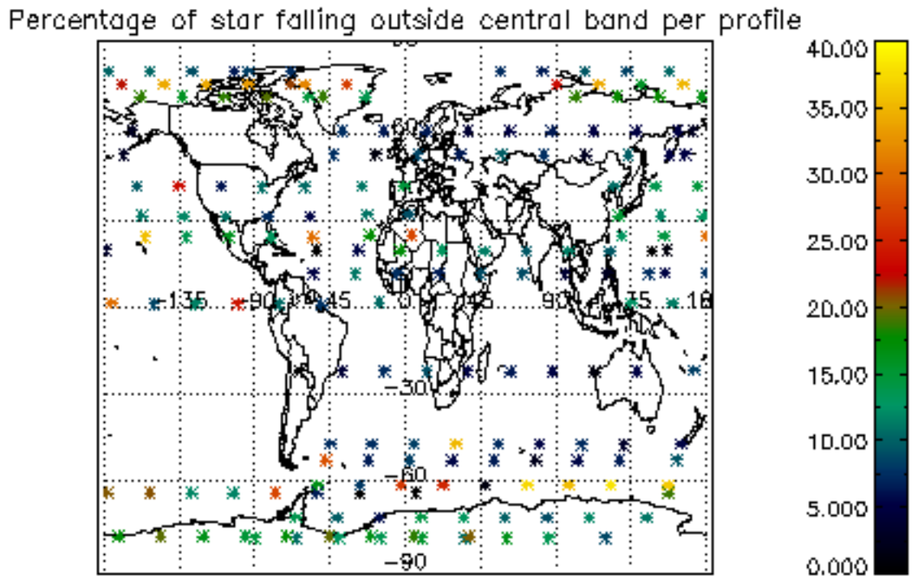

Spectrometer B CCD 2
Dark charge [e]
7500
7000
6500
6000
5500
5000
Upper
Middle
Lower
00:00.00 25/06/2011
04:00.00 25/06/2011
08:00.00 25/06/2011
12:00.00 25/06/2011
16:00.00 25/06/2011
20:00.00 25/06/2011
00:00.00 26/06/2011
Time

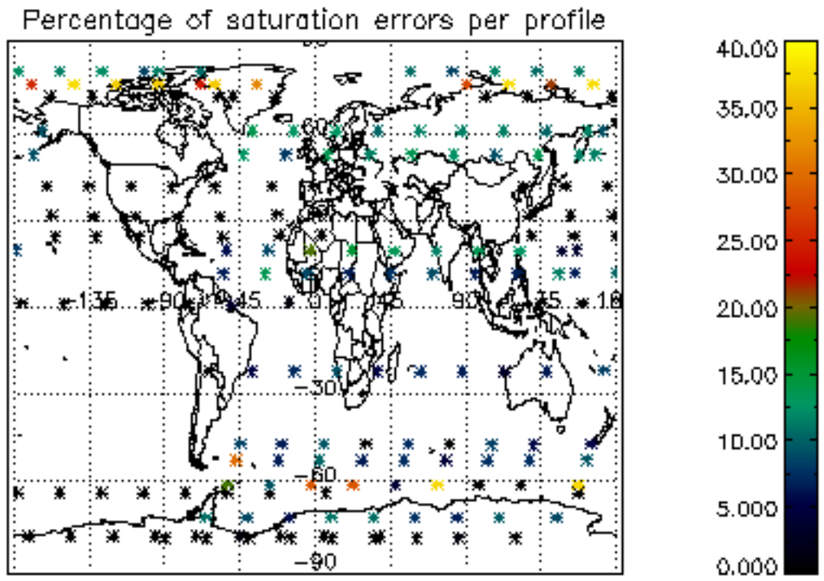

Photometers
Dark charge [e]
3600
3500
3400
3300
3200
3100
FPA
FPB
00:00.00 25/06/2011
04:00.00 25/06/2011
08:00.00 25/06/2011
12:00.00 25/06/2011
16:00.00 25/06/2011
20:00.00 25/06/2011
00:00.00 26/06/2011
Time


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:
100
80
60
40
20
0
value (%)
00:00.00 25/06/2011
04:00.00 25/06/2011
08:00.00 25/06/2011
12:00.00 25/06/2011
16:00.00 25/06/2011
20:00.00 25/06/2011
00:00.00 26/06/2011
Time

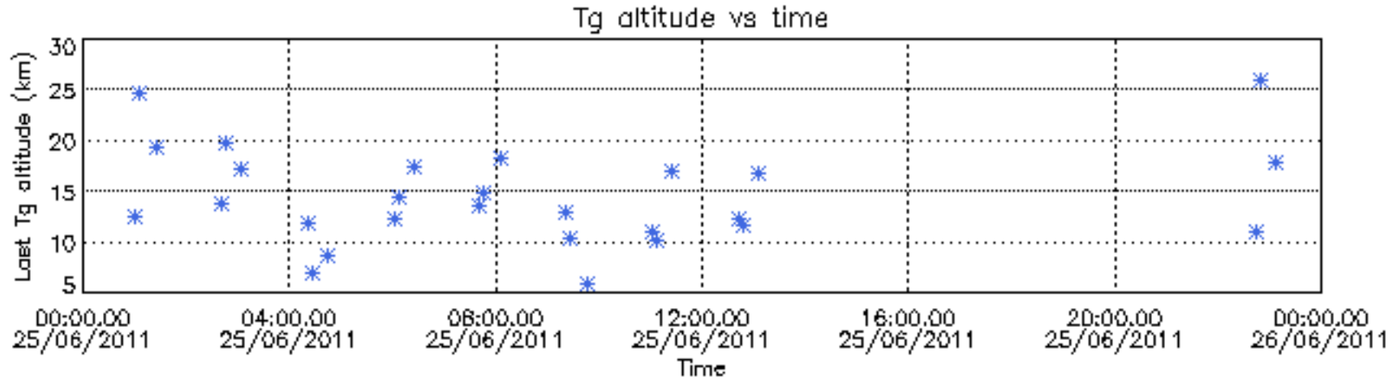

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
-135
-90
-45
0
45
90
135
180
-30
-60
-90

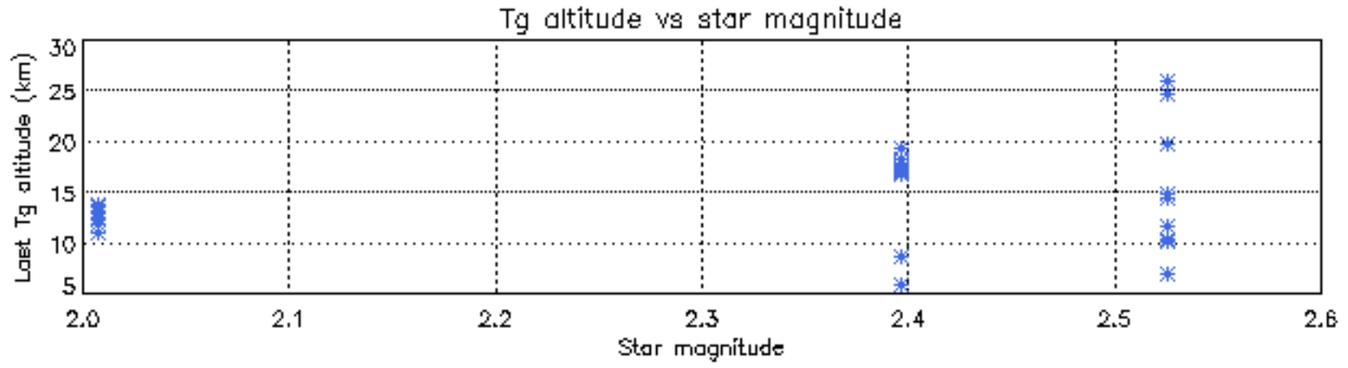

Percentage of datation errors per profile
1.600
1.400
1.200
1.000
0.8000
0.6000
0.4000
0.2000
0.000
-135
-90
-45
0
45
90
135
180
-30
-60
-90

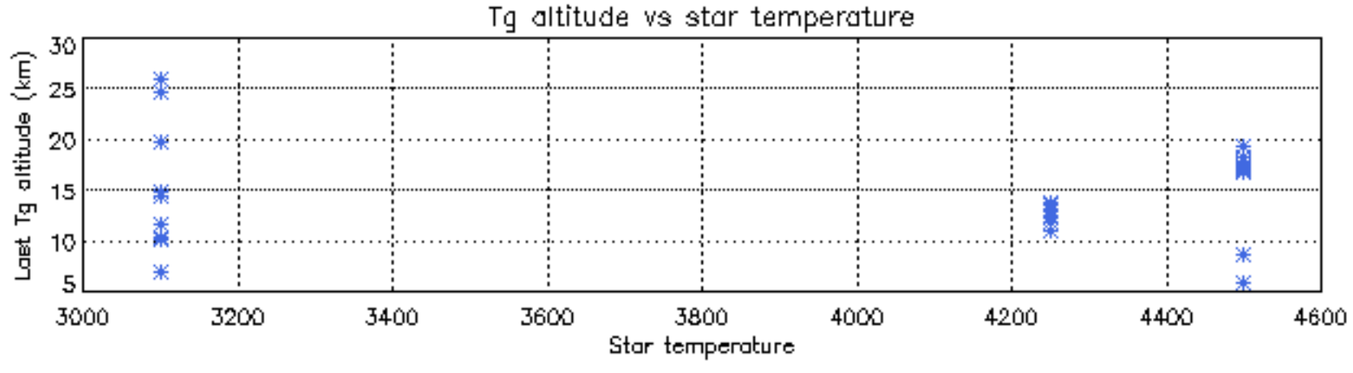

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
-135
-90
-45
0
45
90
135
180
-30
-60
-90


Percentage of saturation errors per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
-135
-90
-45
0
45
90
135
180
-30
-60
-90

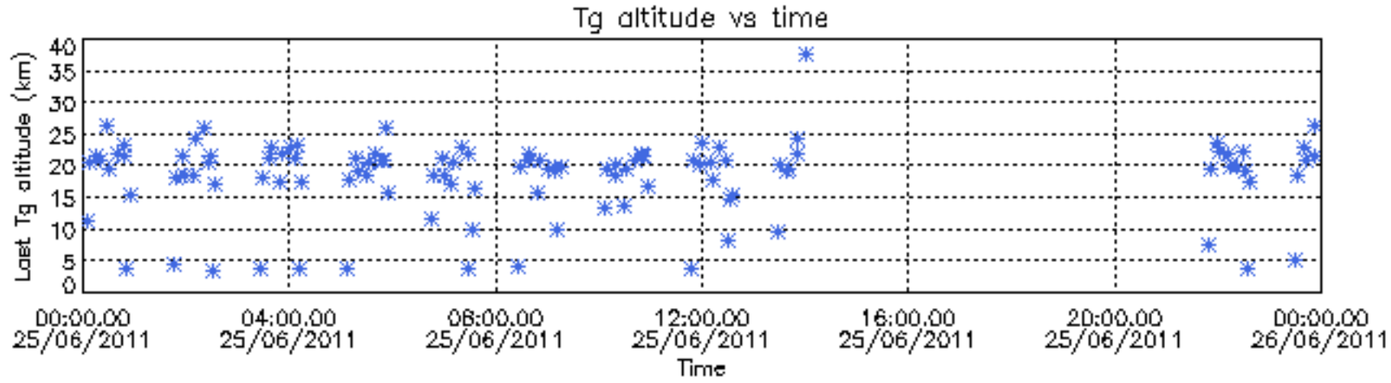
Tangent altitude at which the star is lost

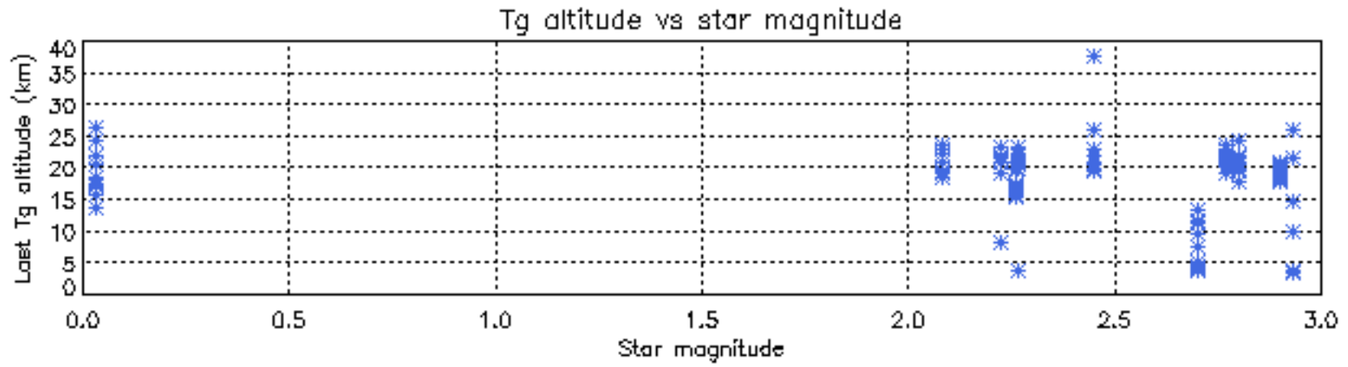


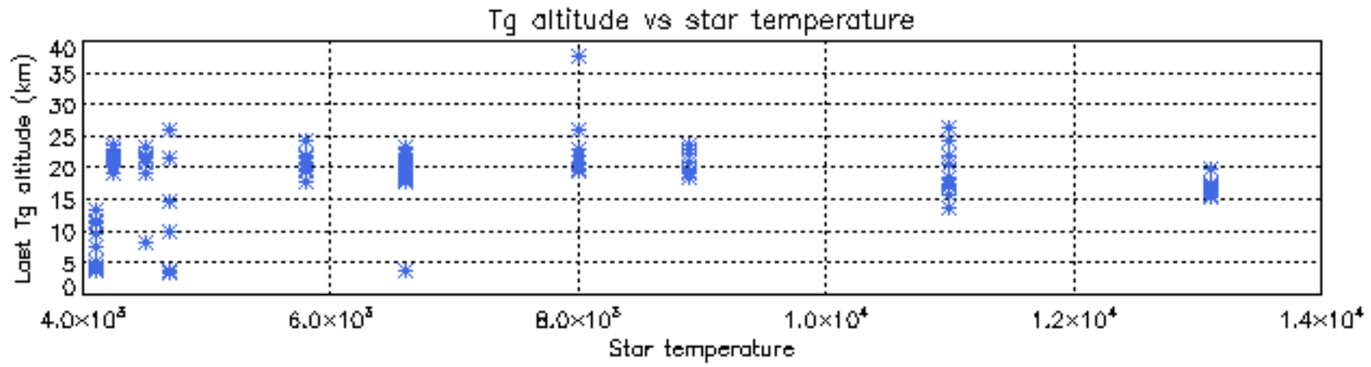


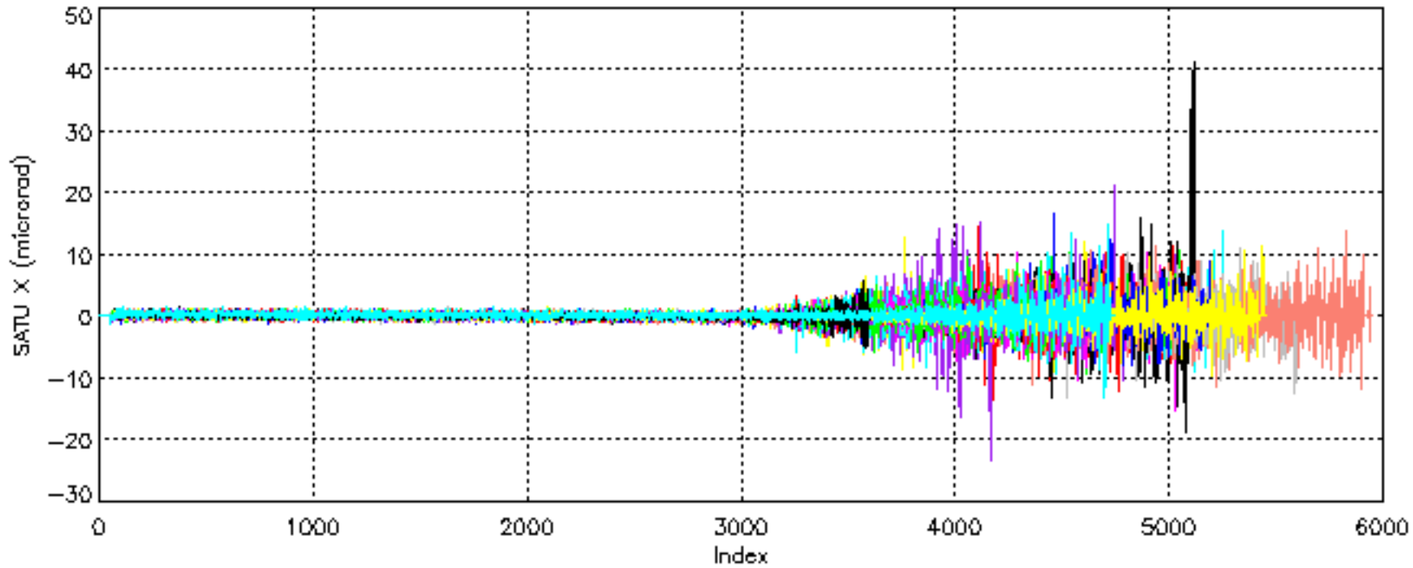


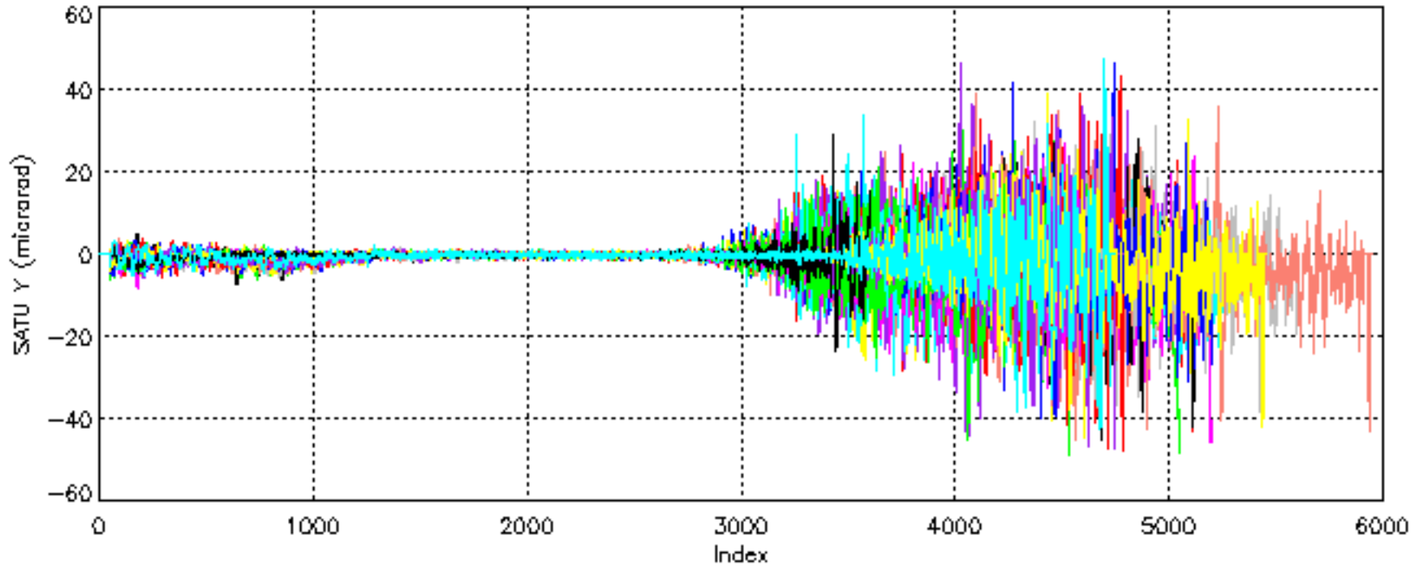
Tangent altitude at which the star is lost

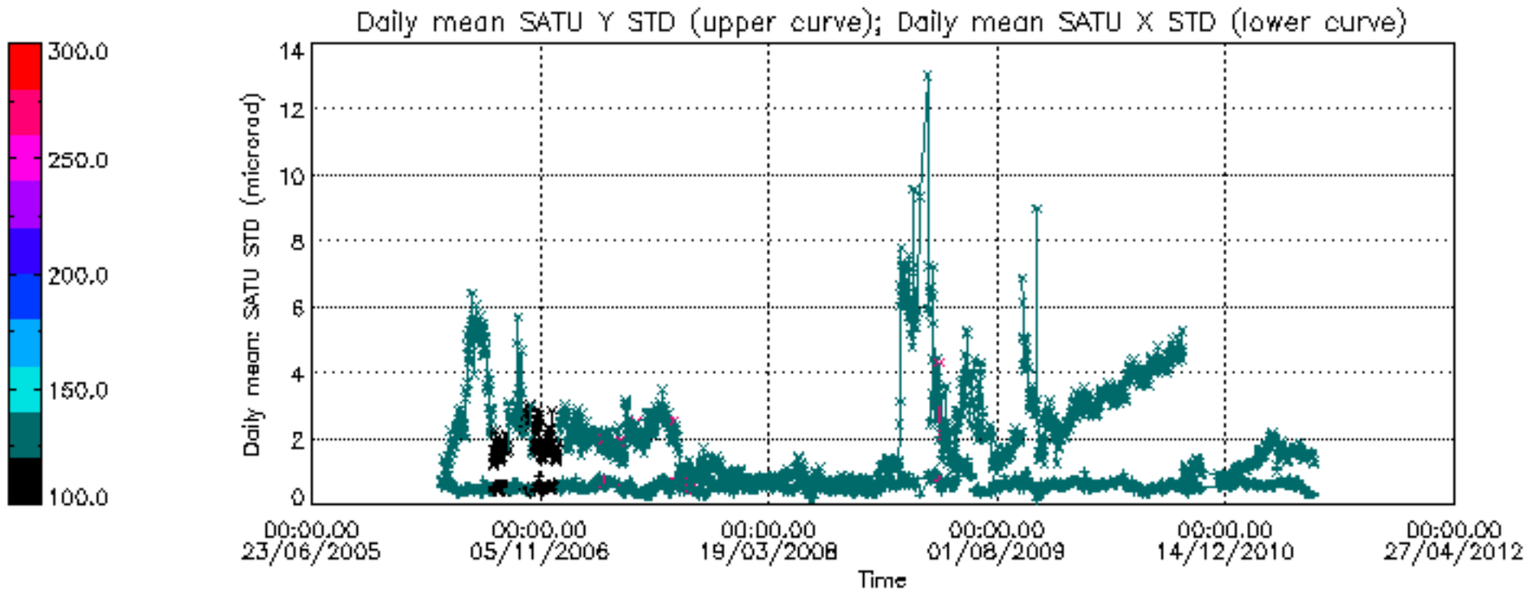


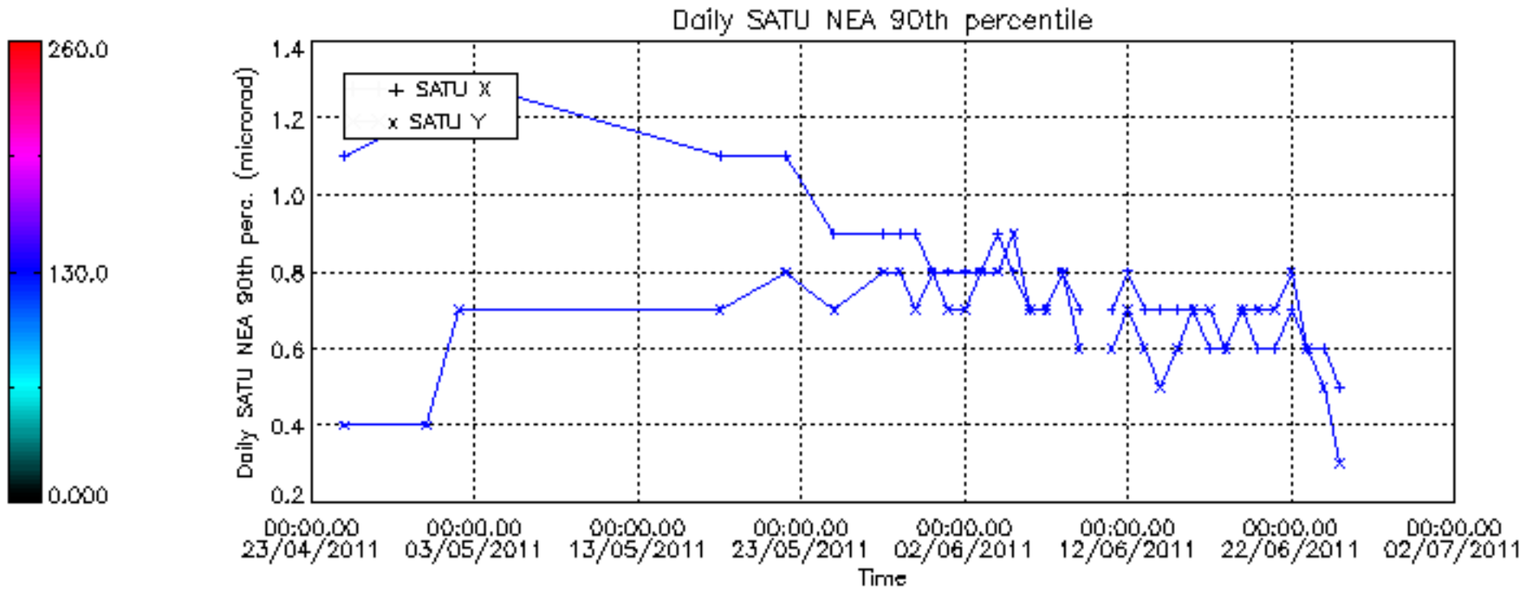





50
40
30
20
10
0
−10
−20
−30
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
Index


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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2; -641.2; 01-JUN-2011 00:51:56; Dark ; 50.5; 52; 16Bet Cet ; 2.04; 4500;occ; 101; 0;48378
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
15; 1691.1; 01-JUN-2011 01:30:49; Bright; 43.0; 98; 13Zet Oph ; 2.57; 30000;occ; 86; 0;48379
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
18; 2304.5; 01-JUN-2011 01:41:02; Bright; 44.0; 127; 27Bet Her ; 2.78; 4700;occ; 88; 0;48379
19; 2508.3; 01-JUN-2011 01:44:26; Bright; 44.0; 133; 40Zet Her ; 2.81; 6000;occ; 88; 0;48379
20; 2985.2; 01-JUN-2011 01:52:23; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;48379
21; 3602.0; 01-JUN-2011 02:02:40; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;48379
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
25; 4833.0; 01-JUN-2011 02:23:11; Dark ; 52.0; 140; 88Gam Peg ; 2.83; 26000;occ; 104; 0;48379
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2; -641.0; 01-JUN-2011 02:32:11; Dark ; 53.0; 52; 16Bet Cet ; 2.04; 4500;occ; 106; 0;48379
3; -240.7; 01-JUN-2011 02:38:51; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;48379
4; -114.6; 01-JUN-2011 02:40:57; Dark ; 53.5; 18; 24Alp PsA ; 1.17; 9700;occ; 107; 0;48379
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
10; 1139.6; 01-JUN-2011 03:01:51; Dark ; 47.0; 25; 35Lam Sco ; 1.62; 28000;occ; 94; 0;48380
11; 1244.4; 01-JUN-2011 03:03:36; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;48380
12; 1365.3; 01-JUN-2011 03:05:37; Dark ; 41.0; 136; 23Tau Sco ; 2.82; 30000;occ; 82; 0;48380
13; 1489.3; 01-JUN-2011 03:07:41; Bright; 39.5; 80; 7Del Sco ; 2.32; 30000;occ; 79; 0;48380
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15; 1691.3; 01-JUN-2011 03:11:03; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;48380
16; 1822.1; 01-JUN-2011 03:13:14; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;48380
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
19; 2508.1; 01-JUN-2011 03:24:40; Bright; 63.0; 133; 40Zet Her ; 2.81; 6000;occ; 126; 0;48380
20; 2985.0; 01-JUN-2011 03:32:37; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;48380
21; 3601.6; 01-JUN-2011 03:42:53; Bright; 16.5; 89; 5Alp Cep ; 2.45; 8000;occ; 33; 0;48380
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2;-2106.4; 01-JUN-2011 03:47:59; Bright; 50.5; 76; 27Gam Cas ; 2.30; 30000;occ; 101; 0;48380
3;-1640.9; 01-JUN-2011 03:55:45; Bright; 44.0; 53; 43Bet And ; 2.05; 3300;occ; 88; 0;48380
4;-1479.6; 01-JUN-2011 03:58:26; Dark ; 55.5; 58; 21Alp And ; 2.07; 11000;occ; 111; 0;48380
5;-1180.3; 01-JUN-2011 04:03:25; Dark ; 53.5; 140; 88Gam Peg ; 2.83; 26000;occ; 107; 0;48380
6; -742.9; 01-JUN-2011 04:10:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;48380
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  19; 2868.4; 12-JUN-2011 06:47:58; Bright;  40.0;  130; 23Bet Dra  ; 2.80;  5800;occ;  80;   0;48540
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   4;  264.6; 15-JUN-2011 00:53:53; Dark  ;  50.0;   63;   Bet Gru  ; 2.15;  2800;occ; 100;   0;48580
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  16; 1994.0; 15-JUN-2011 04:43:10; Bright;  47.0;  126; 60Bet Oph  ; 2.77;  4250;occ;  94;   0;48582
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   9;  267.8; 15-JUN-2011 05:54:38; Dark  ;  50.0;   63;   Bet Gru  ; 2.15;  2800;occ; 100;   0;48583
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   7; -377.3; 21-JUN-2011 05:23:56; Dark  ;  62.0;   52; 16Bet Cet  ; 2.04;  4500;occ; 124;   0;48668
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  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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   9; 4247.6; 25-JUN-2011 12:35:14; Bright; 47.0;   73; 57Gam1And ; 2.26; 13100;occ; 94;   0;48730
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   9; 4398.1; 26-JUN-2011 15:21:28; Dark  ;  46.0;  173;  4Bet Tri  ; 3.00;  8900;occ;  92;   0;48746
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  11; 4246.9; 26-JUN-2011 16:59:11; Bright;  54.5;   73; 57Gam1And  ; 2.26; 13100;occ; 109;   0;48747
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   7; 2802.2; 26-JUN-2011 18:15:21; Bright;  39.0;  130; 23Bet Dra  ; 2.80;  5800;occ;  78;   0;48748
   8; 3788.9; 26-JUN-2011 18:31:47; Bright;  60.5;   74; 11Bet Cas  ; 2.27;  6600;occ; 121;   0;48748
   9; 3886.0; 26-JUN-2011 18:33:24; Bright;  57.0;   68; 18Alp Cas  ; 2.22;  4500;occ; 114;   0;48748
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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; 4246.5; 27-JUN-2011 14:42:13; Bright; 48.5;   73; 57Gam1And ; 2.26; 13100;occ; 97;   0;48760
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   7; 3782.4; 27-JUN-2011 16:14:43; Bright; 46.5;   74; 11Bet Cas ; 2.27; 6600;occ; 93;   0;48761
   8; 3881.2; 27-JUN-2011 16:16:21; Bright; 45.5;   68; 18Alp Cas ; 2.22; 4500;occ; 91;   0;48761
   9; 4043.6; 27-JUN-2011 16:19:04; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71;   0;48761
  10; 4246.4; 27-JUN-2011 16:22:27; Bright; 47.5;   73; 57Gam1And ; 2.26; 13100;occ; 95;   0;48761
  11; 4399.4; 27-JUN-2011 16:24:59; Dark ; 48.0; 173; 4Bet Tri ; 3.00; 8900;occ; 96;   0;48761
  12; 4643.8; 27-JUN-2011 16:29:04; Dark ; 54.0;   50; 13Alp Ari ; 2.01; 4250;occ; 108;   0;48761
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   7; 2799.7; 27-JUN-2011 17:38:34; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79;   0;48762
   8; 3349.0; 27-JUN-2011 17:47:43; Bright; 45.0;   89; 5Alp Cep ; 2.45; 8000;occ; 90;   0;48762
   9; 3782.2; 27-JUN-2011 17:54:56; Bright; 57.5;   74; 11Bet Cas ; 2.27; 6600;occ; 115;   0;48762
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  12; 4246.1; 27-JUN-2011 19:42:54; Bright;  45.0;   73; 57Gam1And  ; 2.26; 13100;occ;  90;   0;48763
  13; 4399.3; 27-JUN-2011 19:45:28; Dark  ;  48.0;  173;  4Bet Tri  ; 3.00;  8900;occ;  96;   0;48763
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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
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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
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   4; 1970.2; 28-JUN-2011 20:08:28; Bright;  38.5;  126; 60Bet Oph  ; 2.77;  4250;occ;  77;   0;48778
   5; 2110.1; 28-JUN-2011 20:10:48; Bright;  38.5;   59; 55Alp Oph  ; 2.08;  8900;occ;  77;   0;48778
   6; 2228.8; 28-JUN-2011 20:12:47; Bright;  25.0;  168; 17Zet Aql  ; 2.99; 11000;occ;  50;   0;48778
   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
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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
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   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
  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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  17; 3873.3; 28-JUN-2011 22:20:25; Bright;  49.5;   68; 18Alp Cas  ; 2.22;  4500;occ;  99;   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
  22; 4945.6; 28-JUN-2011 22:38:18; Dark ; 38.0;   94; 92Alp Cet ; 2.53; 3100;occ; 76;   0;48779
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   2;   72.5; 28-JUN-2011 22:57:19; Dark ; 51.0;   84;   Alp Phe ; 2.40; 4500;occ; 102;   0;48780
   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
   5; 728.7; 28-JUN-2011 23:08:15; Dark ; 40.5;   45;   Alp Pav ; 1.94; 26000;occ; 81;   0;48780
   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
   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
  11; 2227.6; 28-JUN-2011 23:33:14; Bright; 33.0; 168; 17Zet Aql ; 2.99; 11000;occ; 66;   0;48780
  12; 2644.9; 28-JUN-2011 23:40:11; Bright; 52.0;   5; 3Alp Lyr ; 0.03; 11000;occ; 104;   0;48780
  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
  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
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  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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   2;-2136.6; 28-JUN-2011 07:18:24; Bright; 49.0;   68; 18Alp Cas ; 2.22; 4500;occ; 98;   0;48770
   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
   5;-1614.2; 28-JUN-2011 07:27:06; Dark ; 49.0; 173; 4Bet Tri ; 3.00; 8900;occ; 98;   0;48770
   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
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  11; 570.3; 28-JUN-2011 08:03:30; Dark ; 49.5;   31;   Alp Gru ; 1.73; 15200;occ; 99;   0;48771
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  14; 1339.4; 28-JUN-2011 08:16:20; Dark ; 49.0; 116; 19Del Sgr ; 2.70; 4100;occ; 98;   0;48771
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   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
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  12; 4942.7; 28-JUN-2011 09:16:23; Dark ; 48.5;   94; 92Alp Cet ; 2.53; 3100;occ; 97;   0;48771
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  14; 6078.9; 28-JUN-2011 09:35:19; Dark ; 48.5;   84;   Alp Phe ; 2.40; 4500;occ; 97;   0;48772
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  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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   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
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  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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   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
   9; 4245.9; 28-JUN-2011 12:25:14; Bright;  47.5;   73; 57Gam1And  ; 2.26; 13100;occ;  95;   0;48773
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   7; 3340.4; 28-JUN-2011 15:30:36; Bright;  45.0;   89;  5Alp Cep  ; 2.45;  8000;occ;  90;   0;48775
   8; 3775.8; 28-JUN-2011 15:37:52; Bright;  47.5;   74; 11Bet Cas  ; 2.27;  6600;occ;  95;   0;48775
   9; 3875.4; 28-JUN-2011 15:39:31; Bright;  48.5;   68; 18Alp Cas  ; 2.22;  4500;occ;  97;   0;48775
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   3; 1465.4; 28-JUN-2011 16:39:35; Bright; 46.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 93;   0;48776
   4; 1970.4; 28-JUN-2011 16:48:00; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77;   0;48776
   5; 2110.1; 28-JUN-2011 16:50:20; Bright; 37.0;   59; 55Alp Oph ; 2.08; 8900;occ; 74;   0;48776
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   8; 3339.4; 28-JUN-2011 17:10:49; Bright; 47.5;   89; 5Alp Cep ; 2.45; 8000;occ; 95;   0;48776
   9; 3775.3; 28-JUN-2011 17:18:05; Bright; 51.0;   74; 11Bet Cas ; 2.27; 6600;occ; 102;   0;48776
  10; 3874.9; 28-JUN-2011 17:19:45; Bright; 49.0;   68; 18Alp Cas ; 2.22; 4500;occ; 98;   0;48776
  11; 4043.1; 28-JUN-2011 17:22:33; Bright; 41.0; 160; 23Gam Per ; 2.93; 4700;occ; 82;   0;48776
  12; 4245.7; 28-JUN-2011 17:25:56; Bright; 47.5;   73; 57Gam1And ; 2.26; 13100;occ; 95;   0;48776
  13; 4400.0; 28-JUN-2011 17:28:30; Dark ; 50.0; 173; 4Bet Tri ; 3.00; 8900;occ; 100;   0;48776
  14; 4648.3; 28-JUN-2011 17:32:38; Dark ; 59.5;   50; 13Alp Ari ; 2.01; 4250;occ; 119;   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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   3; 1465.6; 28-JUN-2011 18:19:50; Bright; 46.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 93;   0;48777
   4; 1970.3; 28-JUN-2011 18:28:14; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78;   0;48777
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  12; 4245.4; 28-JUN-2011 19:06:09; Bright; 43.0;   73; 57Gam1And ; 2.26; 13100;occ; 86;   0;48777
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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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  13; 1300.5; 29-JUN-2011 04:18:28; Dark  ;  45.0;  103; 38Zet Sgr  ; 2.60;  9700;occ;  90;   0;48783
  14; 1467.0; 29-JUN-2011 04:21:15; Bright;  46.0;  155; 41Pi  Sgr  ; 2.90;  6600;occ;  92;   0;48783
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5; 2795.0; 29-JUN-2011 14:44:47; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;48789
6; 2913.3; 29-JUN-2011 14:46:45; Bright; 33.0; 144; 18Del Cyg ; 2.86; 11000;occ; 66; 0;48789

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    8; 2912.4; 29-JUN-2011 16:26:58; Bright;  38.0;  144; 18Del Cyg  ; 2.86; 11000;occ;  76;   0;48790
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   18; 6099.0; 29-JUN-2011 19:00:19; Dark  ;  49.5;   84;   Alp Phe  ; 2.40;  4500;occ;  99;   0;48792
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   8; 3762.1; 30-JUN-2011 12:43:56; Bright; 49.5;   74; 11Bet Cas ; 2.27; 6600;occ; 99;   0;48802
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