

# GOMOS Daily Report 10-JUN-2010

## Level 0 and Level 1 products

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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	13JUN2010 04:50:05
Data source version	GOMOS/5.00L04
Start time of products	10JUN2010 00:00:20
Stop time of products	10JUN2010 23:59:22
Store outputs in DB	Yes
Nb of level 1b prods	124
Nb of prods with errors	0

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

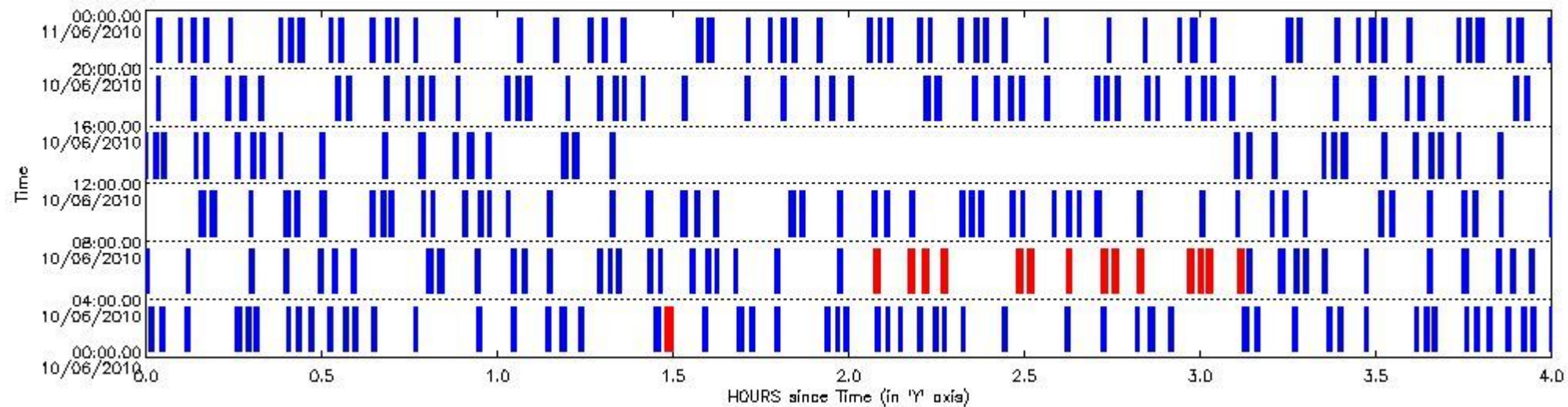
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
10-JUN-2010 01:28:41	16BetCet	52	43271
10-JUN-2010 06:04:19	27GamCas	76	43274
10-JUN-2010 06:10:12	57Gam1And	73	43274
10-JUN-2010 06:12:32	43BetAnd	53	43274
10-JUN-2010 06:15:49	13AlpAri	50	43274
10-JUN-2010 06:28:38	DSA1068	0	43274
10-JUN-2010 06:30:32	16BetCet	52	43274
10-JUN-2010 06:37:01	AlpPhe	84	43274
10-JUN-2010 06:42:56	BetGru	63	43275
10-JUN-2010 06:44:57	AlpGru	31	43275
10-JUN-2010 06:49:17	AlpPav	45	43275
10-JUN-2010 06:57:50	TheSco	40	43275
10-JUN-2010 06:59:35	35LamSco	25	43275
10-JUN-2010 07:00:57	10Gam2Sgr	167	43275
10-JUN-2010 07:06:27	35EtaOph	86	43275

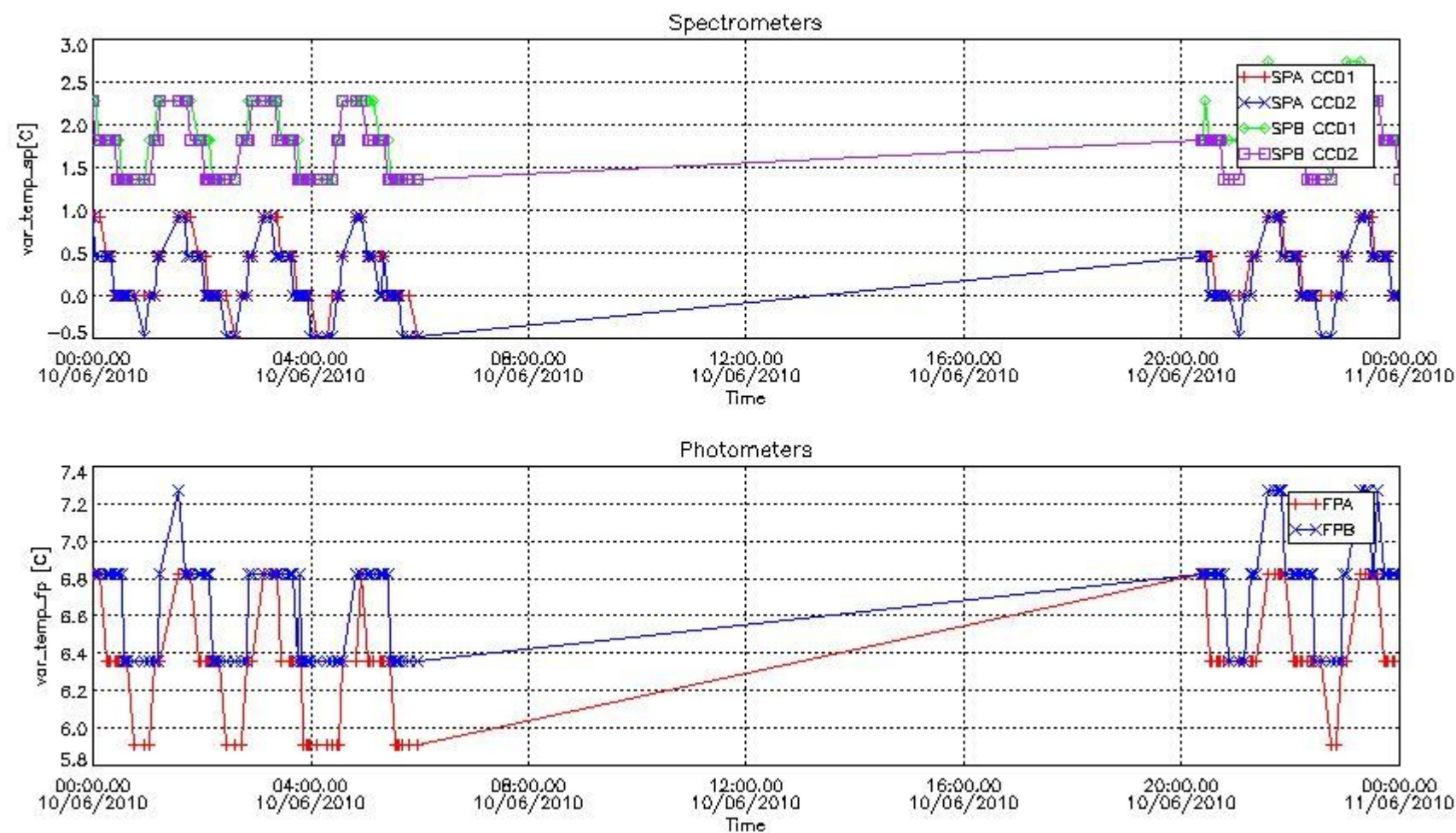
2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100610_000020_000000622090_00131_43271_7761.N1	10-JUN-2010 00:00:20	Dark	61.500	63	Bet Gru	2.1500	2800.0	123	43271	No
2	GOM_TRA_1PNPDE20100610_000220_000000462090_00131_43271_7762.N1	10-JUN-2010 00:02:20	Dark	46.000	31	Alp Gru	1.7340	15200.	92	43271	No
3	GOM_TRA_1PNPDE20100610_000642_000000422090_00131_43271_7763.N1	10-JUN-2010 00:06:42	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	43271	No
4	GOM_TRA_1PNPDE20100610_001517_000000512090_00131_43271_7764.N1	10-JUN-2010 00:15:17	Straylight	50.500	40	The Sco	1.8590	7100.0	101	43271	No
5	GOM_TRA_1PNPDE20100610_001701_000000512090_00131_43271_7765.N1	10-JUN-2010 00:17:01	Twilight	50.500	25	35Lam Sco	1.6200	28000.	101	43271	No
6	GOM_TRA_1PNPDE20100610_001823_000000512090_00131_43271_7766.N1	10-JUN-2010 00:18:23	Twilight	51.000	167	10Gam2Sgr	2.9840	4500.0	102	43271	No
7	GOM_TRA_1PNPDE20100610_002354_000000422090_00131_43271_7767.N1	10-JUN-2010 00:23:54	Bright	42.000	86	35Eta Oph	2.4300	10200.	84	43271	No
8	GOM_TRA_1PNPDE20100610_002540_000000392090_00131_43271_7768.N1	10-JUN-2010 00:25:40	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	43271	No
9	GOM_TRA_1PNPDE20100610_002747_000000392090_00131_43271_7769.N1	10-JUN-2010 00:27:47	Bright	39.000	120	1Del Oph	2.7340	3200.0	78	43271	No
10	GOM_TRA_1PNPDE20100610_003103_000000482090_00131_43271_7770.N1	10-JUN-2010 00:31:03	Bright	48.000	126	60Bet Oph	2.7700	4250.0	96	43271	No
11	GOM_TRA_1PNPDE20100610_003342_000000482090_00131_43271_7771.N1	10-JUN-2010 00:33:42	Bright	47.500	59	55Alp Oph	2.0800	8900.0	95	43271	No
12	GOM_TRA_1PNPDE20100610_003518_000000412090_00131_43271_7772.N1	10-JUN-2010 00:35:18	Bright	40.500	127	27Bet Her	2.7810	4700.0	81	43271	No
13	GOM_TRA_1PNPDE20100610_003829_000000432090_00131_43271_7773.N1	10-JUN-2010 00:38:29	Bright	42.500	133	40Zet Her	2.8070	6000.0	85	43271	No
14	GOM_TRA_1PNPDE20100610_004536_000000402090_00131_43271_7774.N1	10-JUN-2010 00:45:36	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	43271	No
15	GOM_TRA_1PNPDE20100610_005621_000000482090_00131_43271_7775.N1	10-JUN-2010 00:56:21	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	43271	No
16	GOM_TRA_1PNPDE20100610_010223_000000432090_00131_43271_7776.N1	10-JUN-2010 01:02:23	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	43271	No
17	GOM_TRA_1PNPDE20100610_010816_000000392090_00131_43271_7777.N1	10-JUN-2010 01:08:16	Bright	39.000	73	57Gam1And	2.2600	13100.	78	43271	No
18	GOM_TRA_1PNPDE20100610_011035_000000612090_00131_43271_7778.N1	10-JUN-2010 01:10:35	Twilight	61.000	53	43Bet And	2.0480	3300.0	122	43271	No
19	GOM_TRA_1PNPDE20100610_011352_000000492090_00131_43271_7779.N1	10-JUN-2010 01:13:52	Twilight	48.500	50	13Alp Ari	2.0070	4250.0	97	43271	No
20	GOM_TRA_1PNPDE20100610_013502_000000442090_00131_43271_7774.N1	10-JUN-2010 01:35:02	Dark	44.000	84	Alp Phe	2.3970	4500.0	88	43271	No
21	GOM_TRA_1PNPDE20100610_014057_000000592090_00132_43272_7775.N1	10-JUN-2010 01:40:57	Dark	58.500	63	Bet Gru	2.1500	2800.0	117	43272	No
22	GOM_TRA_1PNPDE20100610_014257_000000502090_00132_43272_7776.N1	10-JUN-2010 01:42:57	Dark	50.000	31	Alp Gru	1.7340	15200.	100	43272	No
23	GOM_TRA_1PNPDE20100610_014719_000000452090_00132_43272_7777.N1	10-JUN-2010 01:47:19	Straylight	45.000	45	Alp Pav	1.9400	26000.	90	43272	No
24	GOM_TRA_1PNPDE20100610_015553_000000472090_00132_43272_7778.N1	10-JUN-2010 01:55:53	Straylight	47.000	40	The Sco	1.8590	7100.0	94	43272	No
25	GOM_TRA_1PNPDE20100610_015738_000000482090_00132_43272_7779.N1	10-JUN-2010 01:57:38	Twilight	47.500	25	35Lam Sco	1.6200	28000.	95	43272	No
26	GOM_TRA_1PNPDE20100610_015859_000000492090_00132_43272_7780.N1	10-JUN-2010 01:58:59	Twilight	49.000	167	10Gam2Sgr	2.9840	4500.0	98	43272	No
27	GOM_TRA_1PNPDE20100610_020430_000000422090_00132_43272_7781.N1	10-JUN-2010 02:04:30	Bright	41.500	86	35Eta Oph	2.4300	10200.	83	43272	No
28	GOM_TRA_1PNPDE20100610_020616_000000392090_00132_43272_7782.N1	10-JUN-2010 02:06:16	Bright	39.000	98	13Zet Oph	2.5710	30000.	78	43272	No
29	GOM_TRA_1PNPDE20100610_020823_000000372090_00132_43272_7783.N1	10-JUN-2010 02:08:23	Bright	37.000	120	1Del Oph	2.7340	3200.0	74	43272	No
30	GOM_TRA_1PNPDE20100610_021139_000000492090_00132_43272_7784.N1	10-JUN-2010 02:11:39	Bright	49.000	126	60Bet Oph	2.7700	4250.0	98	43272	No
31	GOM_TRA_1PNPDE20100610_021418_000000502090_00132_43272_7785.N1	10-JUN-2010 02:14:18	Bright	50.000	59	55Alp Oph	2.0800	8900.0	100	43272	No
32	GOM_TRA_1PNPDE20100610_021554_000000412090_00132_43272_7786.N1	10-JUN-2010 02:15:54	Bright	41.000	127	27Bet Her	2.7810	4700.0	82	43272	No
33	GOM_TRA_1PNPDE20100610_021905_000000412090_00132_43272_7787.N1	10-JUN-2010 02:19:05	Bright	41.000	133	40Zet Her	2.8070	6000.0	82	43272	No
34	GOM_TRA_1PNPDE20100610_022612_000000402090_00132_43272_7788.N1	10-JUN-2010 02:26:12	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	43272	No
35	GOM_TRA_1PNPDE20100610_023655_000000482090_00132_43272_7789.N1	10-JUN-2010 02:36:55	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	43272	No
36	GOM_TRA_1PNPDE20100610_024259_000000582090_00132_43272_7798.N1	10-JUN-2010 02:42:59	Bright	58.000	76	27Gam Cas	2.3000	30000.	116	43272	No
37	GOM_TRA_1PNPDE20100610_024852_000000392090_00132_43272_7799.N1	10-JUN-2010 02:48:52	Bright	38.500	73	57Gam1And	2.2600	13100.	77	43272	No
38	GOM_TRA_1PNPDE20100610_025111_000000622090_00132_43272_7800.N1	10-JUN-2010 02:51:11	Twilight	61.500	53	43Bet And	2.0480	3300.0	123	43272	No
39	GOM_TRA_1PNPDE20100610_025428_000000482090_00132_43272_7801.N1	10-JUN-2010 02:54:28	Twilight	47.500	50	13Alp Ari	2.0070	4250.0	95	43272	No
40	GOM_TRA_1PNPDE20100610_030909_000000522090_00132_43272_7802.N1	10-JUN-2010 03:09:09	Dark	51.500	52	16Bet Cet	2.0370	4500.0	103	43272	No
41	GOM_TRA_1PNPDE20100610_031539_000000452090_00132_43272_7803.N1	10-JUN-2010 03:15:39	Dark	44.500	84	Alp Phe	2.3970	4500.0	89	43272	No
42	GOM_TRA_1PNPDE20100610_032133_000000502090_00133_43273_7804.N1	10-JUN-2010 03:21:33	Dark	49.500	63	Bet Gru	2.1500	2800.0	99	43273	No
43	GOM_TRA_1PNPDE20100610_032334_000000502090_00133_43273_7805.N1	10-JUN-2010 03:23:34	Dark	49.500	31	Alp Gru	1.7340	15200.	99	43273	No
44	GOM_TRA_1PNPDE20100610_032755_000000442090_00133_43273_7806.N1	10-JUN-2010 03:27:55	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	43273	No
45	GOM_TRA_1PNPDE20100610_033629_000000442090_00133_43273_7807.N1	10-JUN-2010 03:36:29	Straylight	44.000	40	The Sco	1.8590	7100.0	88	43273	No
46	GOM_TRA_1PNPDE20100610_033814_000000462090_00133_43273_7808.N1	10-JUN-2010 03:38:14	Twilight	46.000	25	35Lam Sco	1.6200	28000.	92	43273	No
47	GOM_TRA_1PNPDE20100610_033935_000000512090_00133_43273_7809.N1	10-JUN-2010 03:39:35	Twilight	51.000	167	10Gam2Sgr	2.9840	4500.0	102	43273	No
48	GOM_TRA_1PNPDE20100610_034506_000000412090_00133_43273_7810.N1	10-JUN-2010 03:45:06	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	43273	No
49	GOM_TRA_1PNPDE20100610_034652_000000392090_00133_43273_7811.N1	10-JUN-2010 03:46:52	Bright	39.000	98	13Zet Oph	2.5710	30000.	78	43273	No
50	GOM_TRA_1PNPDE20100610_034901_000000372090_00133_43273_7812.N1	10-JUN-2010 03:49:01	Bright	37.000	120	1Del Oph	2.7340	3200.0	74	43273	No
51	GOM_TRA_1PNPDE20100610_035215_000000482090_00133_43273_7813.N1	10-JUN-2010 03:52:15	Bright	48.000	126	60Bet Oph	2.7700	4250.0	96	43273	No
52	GOM_TRA_1PNPDE20100610_035453_000000492090_00133_43273_7814.N1	10-JUN-2010 03:54:53	Bright	48.500	59	55Alp Oph	2.0800	8900.0	97	43273	No
53	GOM_TRA_1PNPDE20100610_035630_000000402090_00133_43273_7815.N1	10-JUN-2010 03:56:30	Bright	39.500	127	27Bet Her	2.7810	4700.0	79	43273	No
54	GOM_TRA_1PNPDE20100610_035941_000000412090_00133_43273_7816.N1	10-JUN-2010 03:59:41	Bright	40.500	133	40Zet Her	2.8070	6000.0	81	43273	No

55	GOM_TRA_1PNPDE20100610_040647_000000422090_00133_43273_7817.N1	10-JUN-2010 04:06:47	Bright	42.000	130	23Bet Dra	2.7990	5800.0	84	43273	No
56	GOM_TRA_1PNPDE20100610_041731_000000492090_00133_43273_7818.N1	10-JUN-2010 04:17:31	Bright	49.000	89	5Alp Cep	2.4510	8000.0	98	43273	No
57	GOM_TRA_1PNPDE20100610_042334_000000452090_00133_43273_7817.N1	10-JUN-2010 04:23:34	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	43273	No
58	GOM_TRA_1PNPDE20100610_042928_000000392090_00133_43273_7818.N1	10-JUN-2010 04:29:28	Bright	38.500	73	57Gam1And	2.2600	13100.	77	43273	No
59	GOM_TRA_1PNPDE20100610_043147_000000522090_00133_43273_7819.N1	10-JUN-2010 04:31:47	Twilight	52.000	53	43Bet And	2.0480	3300.0	104	43273	No
60	GOM_TRA_1PNPDE20100610_043505_000000472090_00133_43273_7820.N1	10-JUN-2010 04:35:05	Twilight	47.000	50	13Alp Ari	2.0070	4250.0	94	43273	No
61	GOM_TRA_1PNPDE20100610_044946_000000542090_00133_43273_7821.N1	10-JUN-2010 04:49:46	Dark	53.500	52	16Bet Cet	2.0370	4500.0	107	43273	No
62	GOM_TRA_1PNPDE20100610_045615_000000452090_00133_43273_7822.N1	10-JUN-2010 04:56:15	Dark	44.500	84	Alp Phe	2.3970	4500.0	89	43273	No
63	GOM_TRA_1PNPDE20100610_050210_000000612090_00134_43274_7823.N1	10-JUN-2010 05:02:10	Dark	60.500	63	Bet Gru	2.1500	2800.0	121	43274	No
64	GOM_TRA_1PNPDE20100610_050411_000000492090_00134_43274_7824.N1	10-JUN-2010 05:04:11	Dark	48.500	31	Alp Gru	1.7340	15200.	97	43274	No
65	GOM_TRA_1PNPDE20100610_050832_000000462090_00134_43274_7825.N1	10-JUN-2010 05:08:32	Straylight	45.500	45	Alp Pav	1.9400	26000.	91	43274	No
66	GOM_TRA_1PNPDE20100610_051706_000000422090_00134_43274_7826.N1	10-JUN-2010 05:17:06	Straylight	42.000	40	The Sco	1.8590	7100.0	84	43274	No
67	GOM_TRA_1PNPDE20100610_051850_000000452090_00134_43274_7827.N1	10-JUN-2010 05:18:50	Twilight	45.000	25	35Lam Sco	1.6200	28000.	90	43274	No
68	GOM_TRA_1PNPDE20100610_052012_000000512090_00134_43274_7828.N1	10-JUN-2010 05:20:12	Twilight	50.500	167	10Gam2Sgr	2.9840	4500.0	101	43274	No
69	GOM_TRA_1PNPDE20100610_052542_000000422090_00134_43274_7829.N1	10-JUN-2010 05:25:42	Bright	42.000	86	35Eta Oph	2.4300	10200.	84	43274	No
70	GOM_TRA_1PNPDE20100610_052728_000000392090_00134_43274_7830.N1	10-JUN-2010 05:27:28	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	43274	No
71	GOM_TRA_1PNPDE20100610_053250_000000532090_00134_43274_7831.N1	10-JUN-2010 05:32:50	Bright	52.500	126	60Bet Oph	2.7700	4250.0	105	43274	No
72	GOM_TRA_1PNPDE20100610_053529_000000492090_00134_43274_7832.N1	10-JUN-2010 05:35:29	Bright	49.000	59	55Alp Oph	2.0800	8900.0	98	43274	No
73	GOM_TRA_1PNPDE20100610_053706_000000382090_00134_43274_7833.N1	10-JUN-2010 05:37:06	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	43274	No
74	GOM_TRA_1PNPDE20100610_054017_000000402090_00134_43274_7834.N1	10-JUN-2010 05:40:17	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	43274	No
75	GOM_TRA_1PNPDE20100610_054723_000000432090_00134_43274_7835.N1	10-JUN-2010 05:47:23	Bright	43.000	130	23Bet Dra	2.7990	5800.0	86	43274	No
76	GOM_TRA_1PNPDE20100610_055806_000000502090_00134_43274_7836.N1	10-JUN-2010 05:58:06	Bright	50.000	89	5Alp Cep	2.4510	8000.0	100	43274	No
77	GOM_TRA_1PNPDE20100610_202232_000000462090_00143_43283_8021.N1	10-JUN-2010 20:22:32	Straylight	46.000	40	The Sco	1.8590	7100.0	92	43283	No
78	GOM_TRA_1PNPDE20100610_202417_000000442090_00143_43283_8022.N1	10-JUN-2010 20:24:17	Twilight	44.000	25	35Lam Sco	1.6200	28000.	88	43283	No
79	GOM_TRA_1PNPDE20100610_202556_000000632090_00143_43283_8023.N1	10-JUN-2010 20:25:56	Bright	63.000	57	34Sig Sgr	2.0660	26000.	126	43283	No
80	GOM_TRA_1PNPDE20100610_203107_000000412090_00143_43283_8024.N1	10-JUN-2010 20:31:07	Bright	41.000	86	35Eta Oph	2.4300	10200.	82	43283	No
81	GOM_TRA_1PNPDE20100610_203252_000000412090_00143_43283_8025.N1	10-JUN-2010 20:32:52	Bright	41.000	98	13Zet Oph	2.5710	30000.	82	43283	No
82	GOM_TRA_1PNPDE20100610_203811_000000482090_00143_43283_8026.N1	10-JUN-2010 20:38:11	Bright	47.500	126	60Bet Oph	2.7700	4250.0	95	43283	No
83	GOM_TRA_1PNPDE20100610_204048_000000472090_00143_43283_8027.N1	10-JUN-2010 20:40:48	Bright	46.500	59	55Alp Oph	2.0800	8900.0	93	43283	No
84	GOM_TRA_1PNPDE20100610_204228_000000392090_00143_43283_8028.N1	10-JUN-2010 20:42:28	Bright	39.000	127	27Bet Her	2.7810	4700.0	78	43283	No
85	GOM_TRA_1PNPDE20100610_204537_000000392090_00143_43283_8029.N1	10-JUN-2010 20:45:37	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	43283	No
86	GOM_TRA_1PNPDE20100610_205241_000000422090_00143_43283_8030.N1	10-JUN-2010 20:52:41	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	43283	No
87	GOM_TRA_1PNPDE20100610_210324_000000492090_00143_43283_8031.N1	10-JUN-2010 21:03:24	Bright	48.500	89	5Alp Cep	2.4510	8000.0	97	43283	No
88	GOM_TRA_1PNPDE20100610_210933_000000412090_00143_43283_8032.N1	10-JUN-2010 21:09:33	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	43283	No
89	GOM_TRA_1PNPDE20100610_211528_000000392090_00143_43283_8033.N1	10-JUN-2010 21:15:28	Bright	38.500	73	57Gam1And	2.2600	13100.	77	43283	No
90	GOM_TRA_1PNPDE20100610_211748_000000512090_00143_43283_8034.N1	10-JUN-2010 21:17:48	Twilight	50.500	53	43Bet And	2.0480	3300.0	101	43283	No
91	GOM_TRA_1PNPDE20100610_212106_000000442090_00143_43283_8035.N1	10-JUN-2010 21:21:06	Twilight	44.000	50	13Alp Ari	2.0070	4250.0	88	43283	No
92	GOM_TRA_1PNPDE20100610_213554_000000522090_00143_43283_8043.N1	10-JUN-2010 21:35:54	Dark	51.500	52	16Bet Cet	2.0370	4500.0	103	43283	No
93	GOM_TRA_1PNPDE20100610_214222_000000482090_00143_43283_8044.N1	10-JUN-2010 21:42:22	Dark	48.000	84	Alp Phe	2.3970	4500.0	96	43283	No
94	GOM_TRA_1PNPDE20100610_214609_000000332090_00144_43284_8045.N1	10-JUN-2010 21:46:09	Dark	33.000	18	24Alp PsA	1.1660	9700.0	66	43284	No
95	GOM_TRA_1PNPDE20100610_214819_000000502090_00144_43284_8046.N1	10-JUN-2010 21:48:19	Dark	49.500	63	Bet Gru	2.1500	2800.0	99	43284	No
96	GOM_TRA_1PNPDE20100610_215020_000000502090_00144_43284_8047.N1	10-JUN-2010 21:50:20	Dark	50.000	31	Alp Gru	1.7340	15200.	100	43284	No
97	GOM_TRA_1PNPDE20100610_215438_000000432090_00144_43284_8048.N1	10-JUN-2010 21:54:38	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	43284	No
98	GOM_TRA_1PNPDE20100610_220308_000000442090_00144_43284_8049.N1	10-JUN-2010 22:03:08	Straylight	43.500	40	The Sco	1.8590	7100.0	87	43284	No
99	GOM_TRA_1PNPDE20100610_220453_000000432090_00144_43284_8050.N1	10-JUN-2010 22:04:53	Twilight	43.000	25	35Lam Sco	1.6200	28000.	86	43284	No
100	GOM_TRA_1PNPDE20100610_220632_000000602090_00144_43284_8051.N1	10-JUN-2010 22:06:32	Bright	59.500	57	34Sig Sgr	2.0660	26000.	119	43284	No
101	GOM_TRA_1PNPDE20100610_221143_000000422090_00144_43284_8052.N1	10-JUN-2010 22:11:43	Bright	41.500	86	35Eta Oph	2.4300	10200.	83	43284	No
102	GOM_TRA_1PNPDE20100610_221328_000000392090_00144_43284_8053.N1	10-JUN-2010 22:13:28	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	43284	No
103	GOM_TRA_1PNPDE20100610_221846_000000482090_00144_43284_8054.N1	10-JUN-2010 22:18:46	Bright	47.500	126	60Bet Oph	2.7700	4250.0	95	43284	No
104	GOM_TRA_1PNPDE20100610_222124_000000472090_00144_43284_8055.N1	10-JUN-2010 22:21:24	Bright	47.000	59	55Alp Oph	2.0800	8900.0	94	43284	No
105	GOM_TRA_1PNPDE20100610_222303_000000402090_00144_43284_8056.N1	10-JUN-2010 22:23:03	Bright	40.000	127	27Bet Her	2.7810	4700.0	80	43284	No
106	GOM_TRA_1PNPDE20100610_222613_000000382090_00144_43284_8057.N1	10-JUN-2010 22:26:13	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	43284	No
107	GOM_TRA_1PNPDE20100610_223317_000000422090_00144_43284_8058.N1	10-JUN-2010 22:33:17	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	43284	No
108	GOM_TRA_1PNPDE20100610_224359_000000452090_00144_43284_8059.N1	10-JUN-2010 22:43:59	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	43284	No
109	GOM_TRA_1PNPDE20100610_225008_000000392090_00144_43284_8060.N1	10-JUN-2010 22:50:08	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	43284	No
110	GOM_TRA_1PNPDE20100610_225604_000000392090_00144_43284_8061.N1	10-JUN-2010 22:56:04	Bright	38.500	73	57Gam1And	2.2600	13100.	77	43284	No
111	GOM_TRA_1PNPDE20100610_225823_000000532090_00144_43284_8062.N1	10-JUN-2010 22:58:23	Twilight	52.500	53	43Bet And	2.0480	3300.0	105	43284	No
112	GOM_TRA_1PNPDE20100610_230142_000000502090_00144_43284_8063.N1	10-JUN-2010 23:01:42	Twilight	49.500	50	13Alp Ari	2.0070	4250.0	99	43284	No
113	GOM_TRA_1PNPDE20100610_231631_000000502090_00144_43284_8066.N1	10-JUN-2010 23:16:31	Dark	50.000	52	16Bet Cet	2.0370	4500.0	100	43284	No

114	GOM_TRA_1PNPDE20100610_232258_000000452090_00144_43284_8067.N1	10-JUN-2010 23:22:58	Dark	44.500	84	Alp Phe	2.3970	4500.0	89	43284	No
115	GOM_TRA_1PNPDE20100610_232646_000000302090_00145_43285_8068.N1	10-JUN-2010 23:26:46	Dark	30.000	18	24Alp PsA	1.1660	9700.0	60	43285	No
116	GOM_TRA_1PNPDE20100610_232856_000000602090_00145_43285_8069.N1	10-JUN-2010 23:28:56	Dark	60.000	63	Bet Gru	2.1500	2800.0	120	43285	No
117	GOM_TRA_1PNPDE20100610_233057_000000462090_00145_43285_8070.N1	10-JUN-2010 23:30:57	Dark	46.000	31	Alp Gru	1.7340	15200.	92	43285	No
118	GOM_TRA_1PNPDE20100610_233514_000000452090_00145_43285_8071.N1	10-JUN-2010 23:35:14	Straylight	45.000	45	Alp Pav	1.9400	26000.	90	43285	No
119	GOM_TRA_1PNPDE20100610_234344_000000452090_00145_43285_8072.N1	10-JUN-2010 23:43:44	Straylight	44.500	40	The Sco	1.8590	7100.0	89	43285	No
120	GOM_TRA_1PNPDE20100610_234529_000000452090_00145_43285_8073.N1	10-JUN-2010 23:45:29	Twilight_stray	45.000	25	35Lam Sco	1.6200	28000.	90	43285	No
121	GOM_TRA_1PNPDE20100610_234708_000000702090_00145_43285_8074.N1	10-JUN-2010 23:47:08	Bright	70.000	57	34Sig Sgr	2.0660	26000.	140	43285	No
122	GOM_TRA_1PNPDE20100610_235218_000000422090_00145_43285_8075.N1	10-JUN-2010 23:52:18	Bright	41.500	86	35Eta Oph	2.4300	10200.	83	43285	No
123	GOM_TRA_1PNPDE20100610_235404_000000552090_00145_43285_8076.N1	10-JUN-2010 23:54:04	Bright	55.000	98	13Zet Oph	2.5710	30000.	110	43285	No
124	GOM_TRA_1PNPDE20100610_235922_000000472090_00145_43285_8077.N1	10-JUN-2010 23:59:22	Bright	47.000	126	60Bet Oph	2.7700	4250.0	94	43285	No

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



### 4. Overview of dark signal processing per product

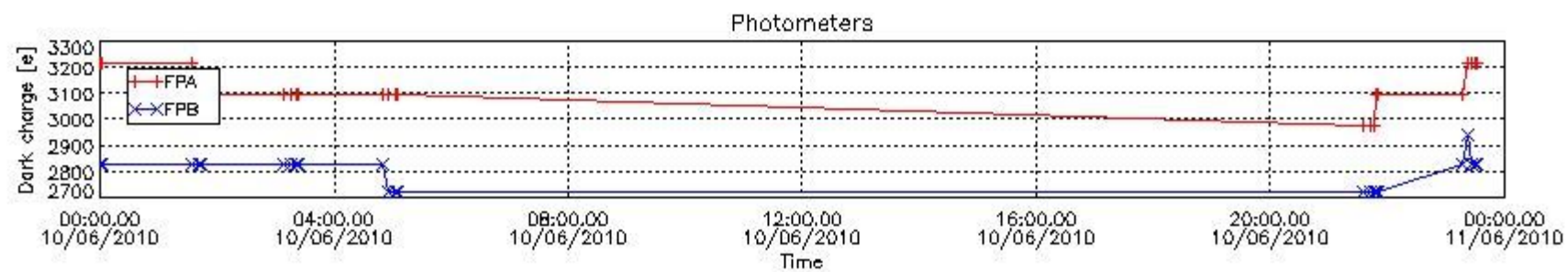
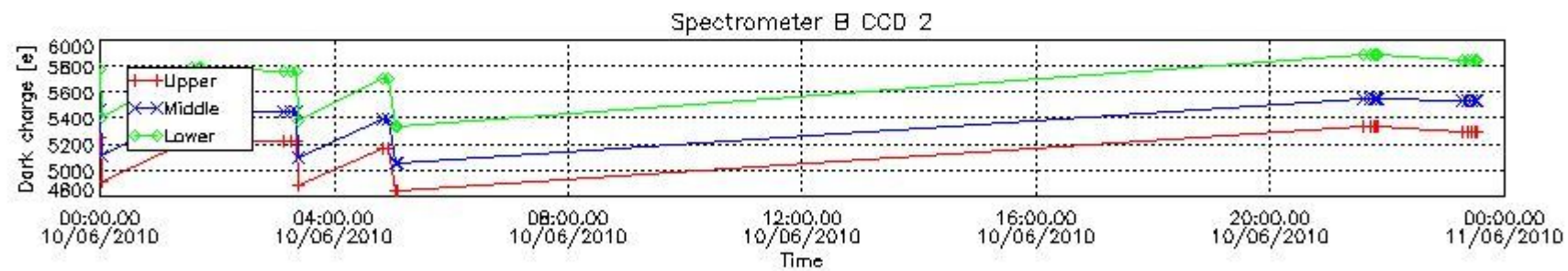
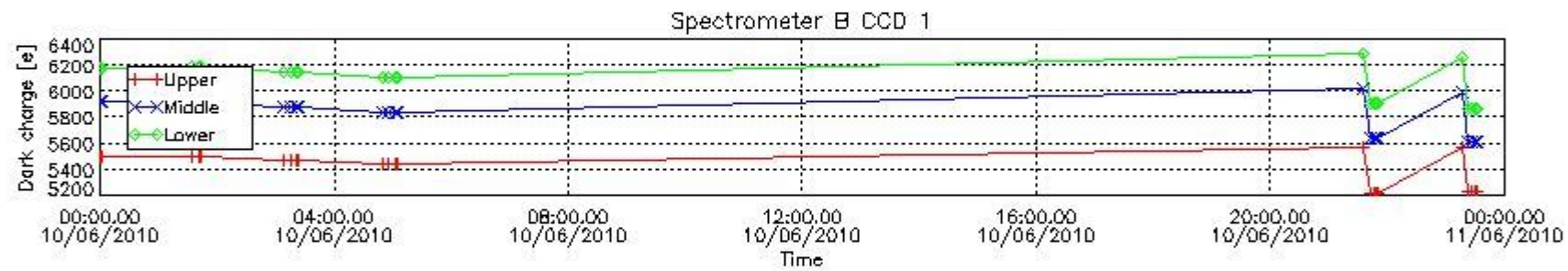
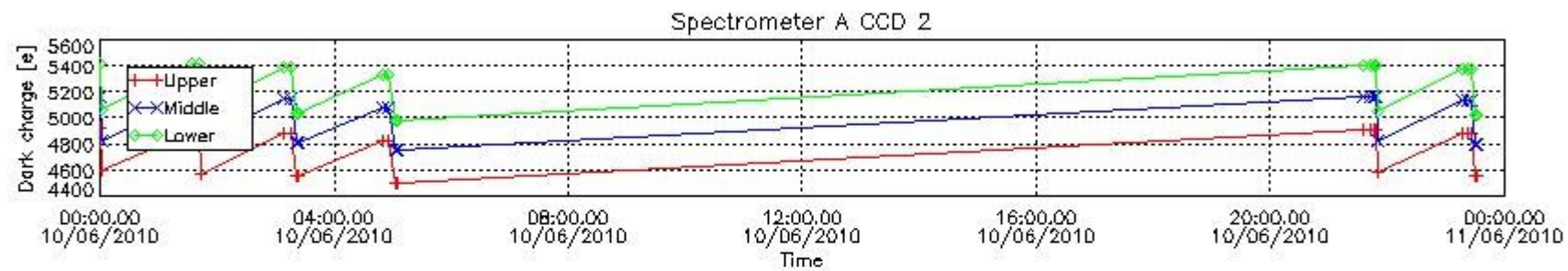
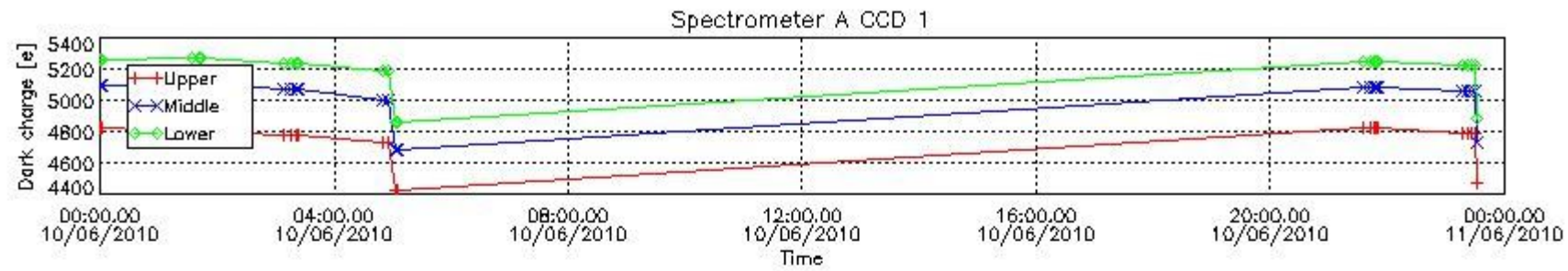
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100610_202232_000000462090_00143_43283_8021.N1	DC map used
GOM_TRA_1PNPDE20100610_202417_000000442090_00143_43283_8022.N1	DC map used
GOM_TRA_1PNPDE20100610_202556_000000632090_00143_43283_8023.N1	DC map used
GOM_TRA_1PNPDE20100610_203107_000000412090_00143_43283_8024.N1	DC map used
GOM_TRA_1PNPDE20100610_203252_000000412090_00143_43283_8025.N1	DC map used
GOM_TRA_1PNPDE20100610_203811_000000482090_00143_43283_8026.N1	DC map used
GOM_TRA_1PNPDE20100610_204048_000000472090_00143_43283_8027.N1	DC map used
GOM_TRA_1PNPDE20100610_204228_000000392090_00143_43283_8028.N1	DC map used
GOM_TRA_1PNPDE20100610_204537_000000392090_00143_43283_8029.N1	DC map used
GOM_TRA_1PNPDE20100610_205241_000000422090_00143_43283_8030.N1	DC map used
GOM_TRA_1PNPDE20100610_210324_000000492090_00143_43283_8031.N1	DC map used
GOM_TRA_1PNPDE20100610_210933_000000412090_00143_43283_8032.N1	DC map used
GOM_TRA_1PNPDE20100610_211528_000000392090_00143_43283_8033.N1	DC map used
GOM_TRA_1PNPDE20100610_211748_000000512090_00143_43283_8034.N1	DC map used
GOM_TRA_1PNPDE20100610_212106_000000442090_00143_43283_8035.N1	DC map used

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



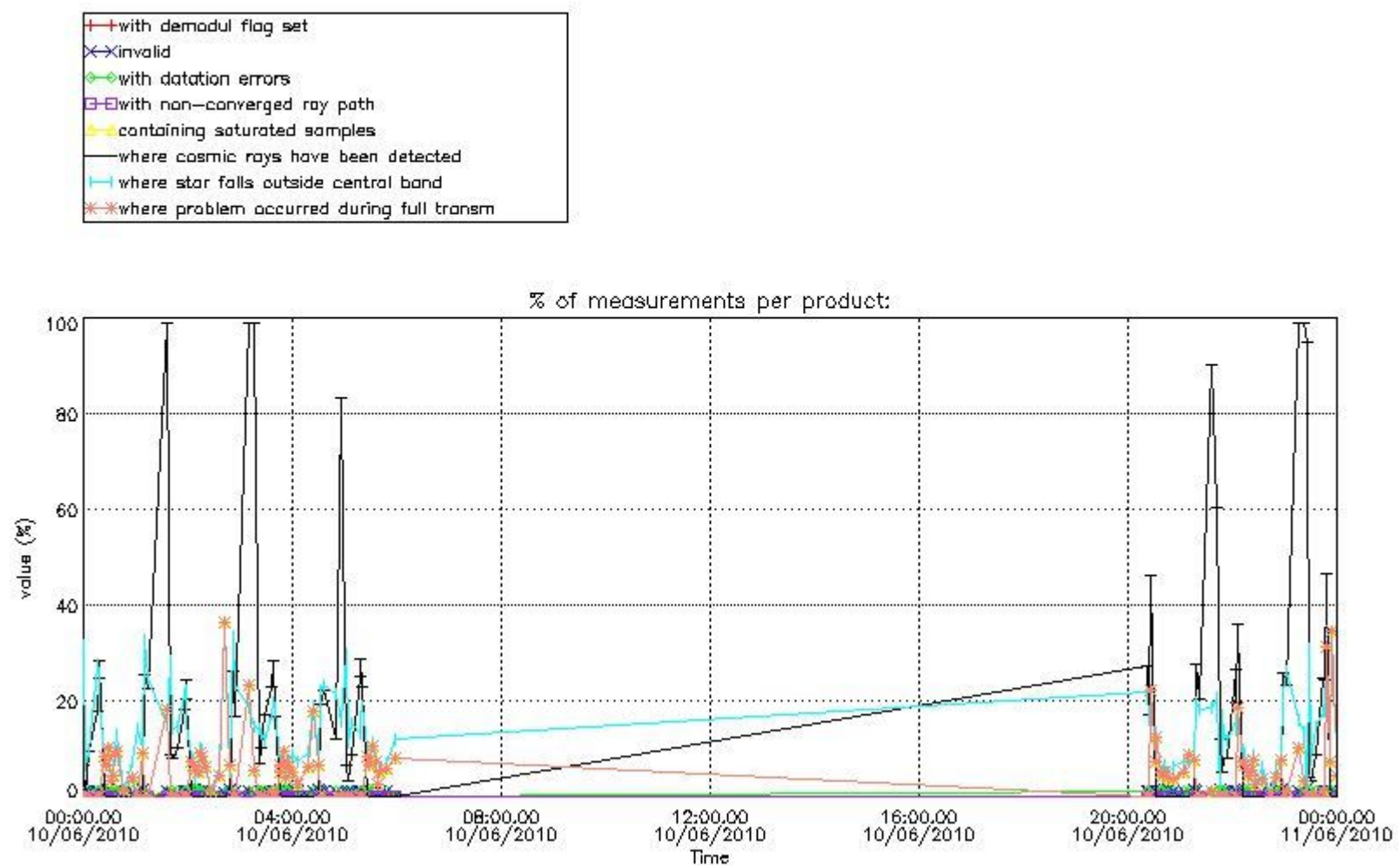
## 5. Demodulation flag and quality information monitoring

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:

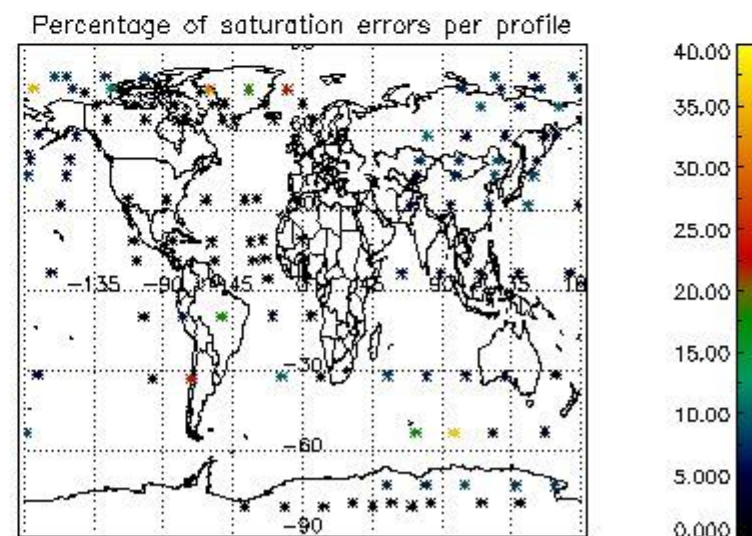
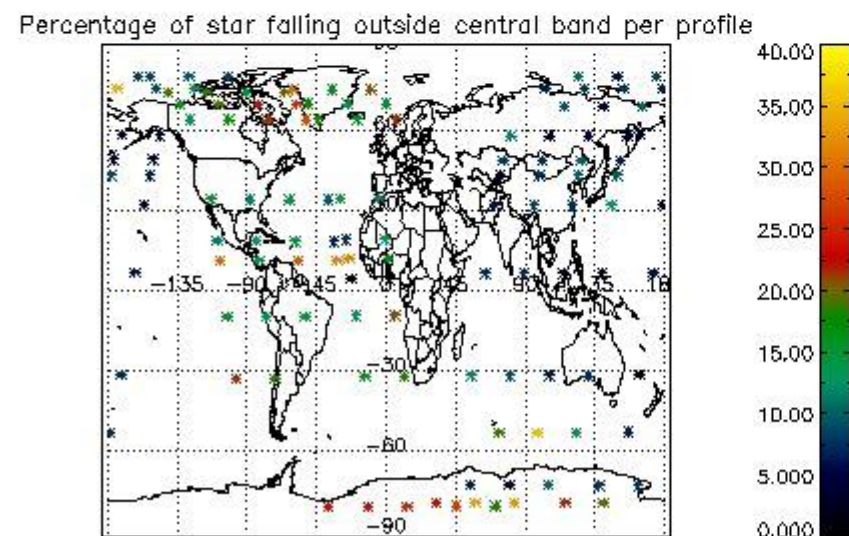
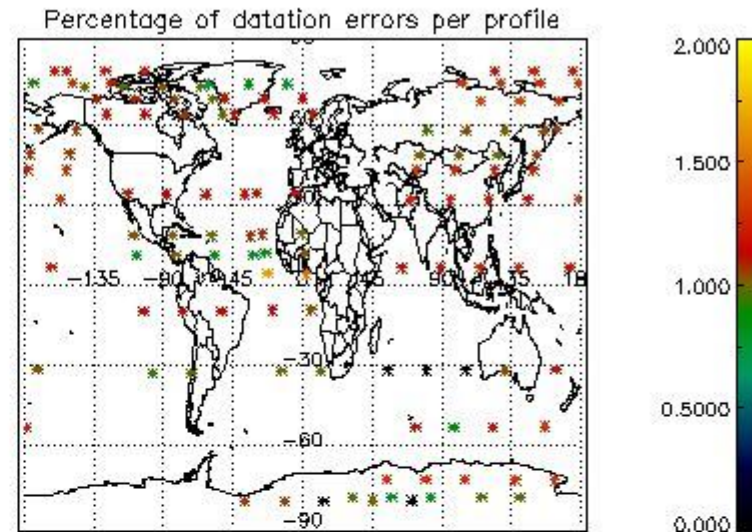
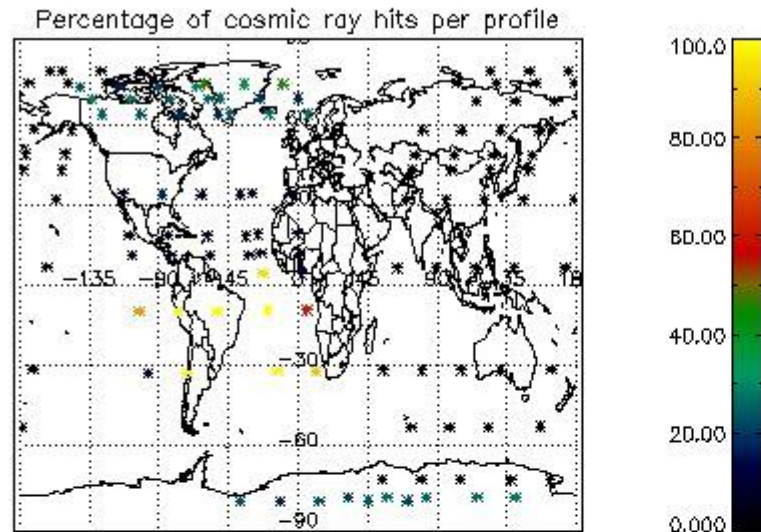
At least one measurement with demodulation flag set:	40.3226 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





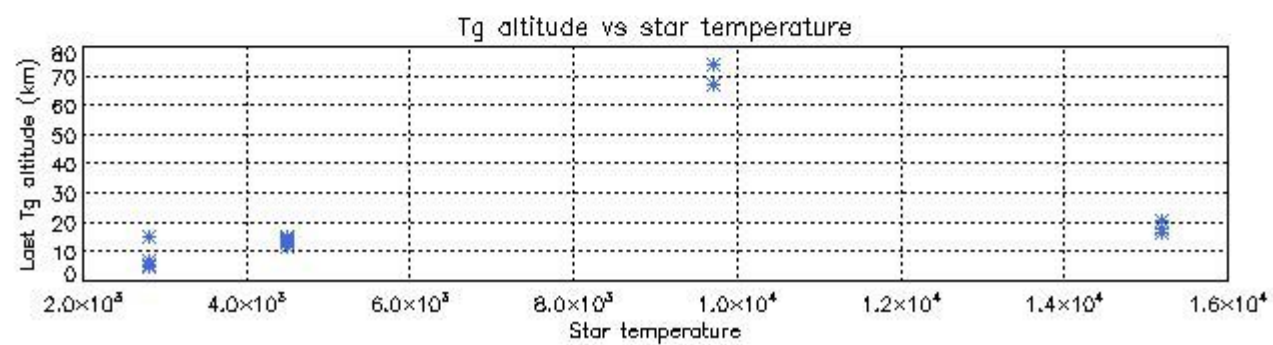
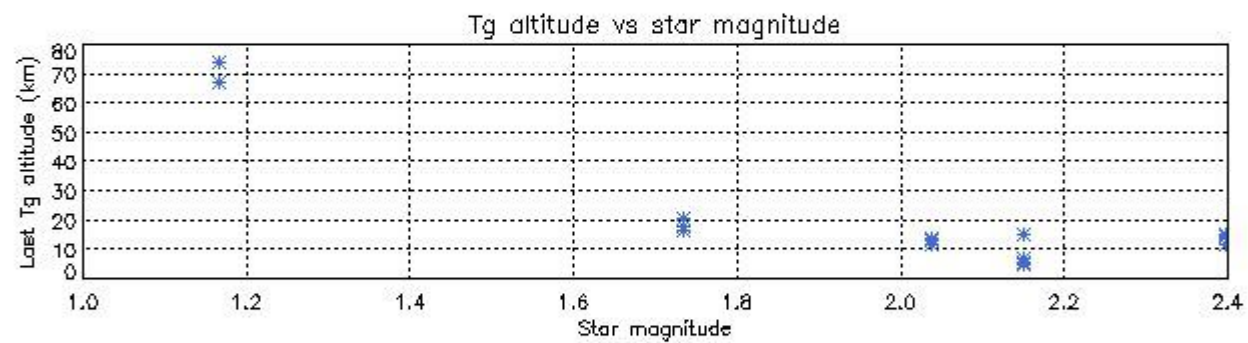
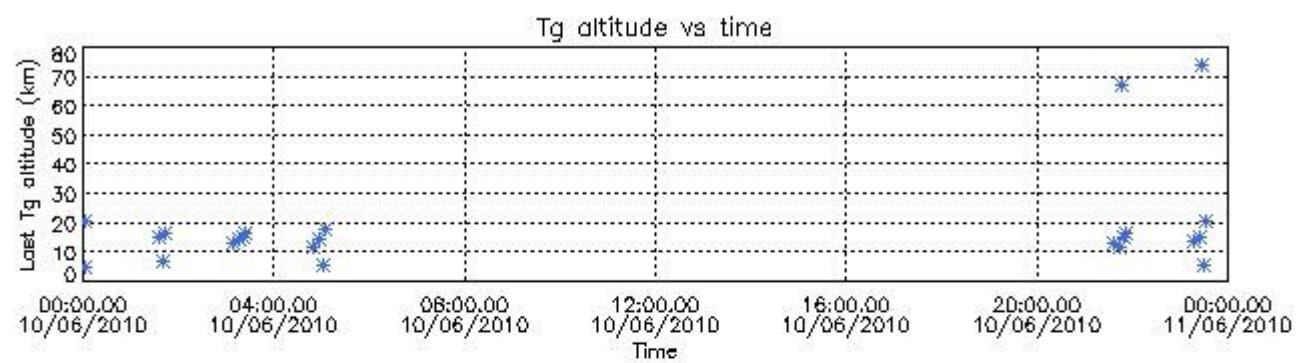
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.434	19.111	9.7200
St. deviation:	17.058	3.9573	1.5425
Maximum:	73.884	25.968	12.310
Minimum:	4.7228	3.7276	8.4075
Number of data:	23.000	67.000	5.0000

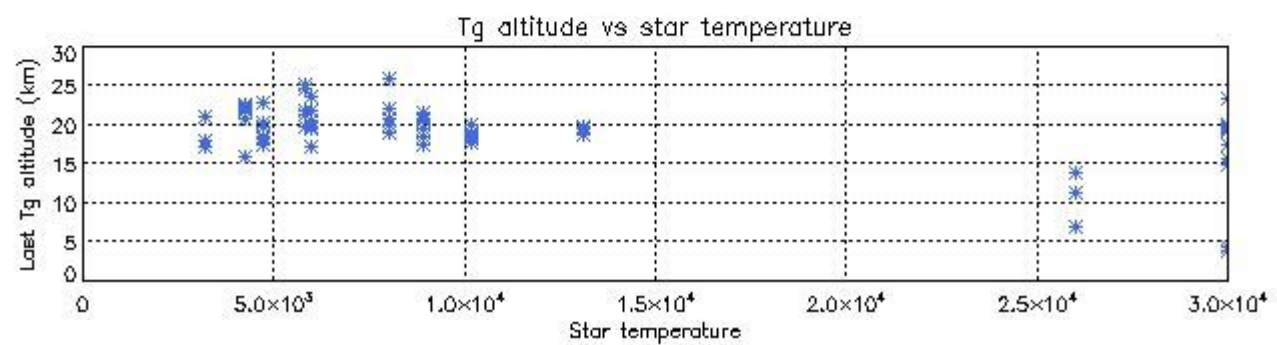
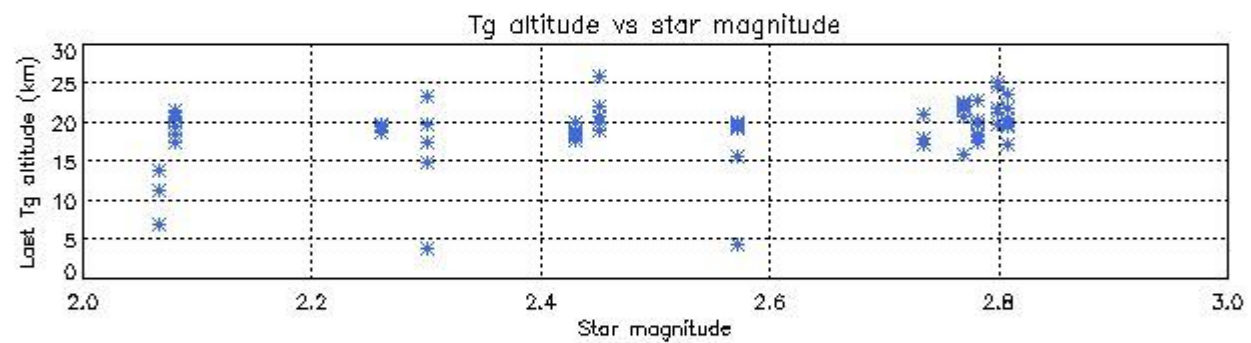
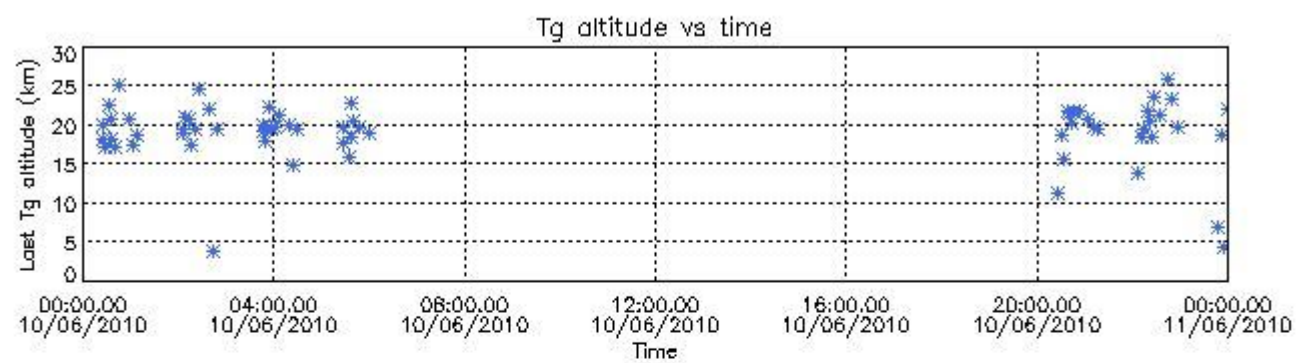
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



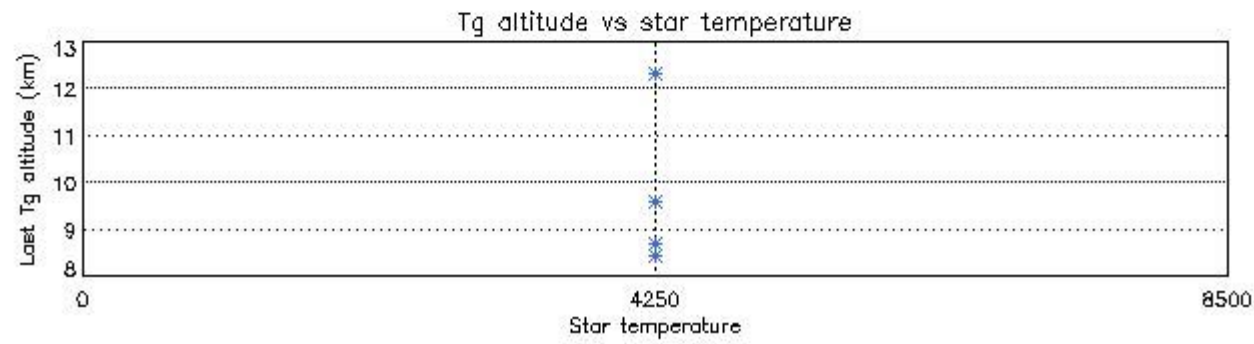
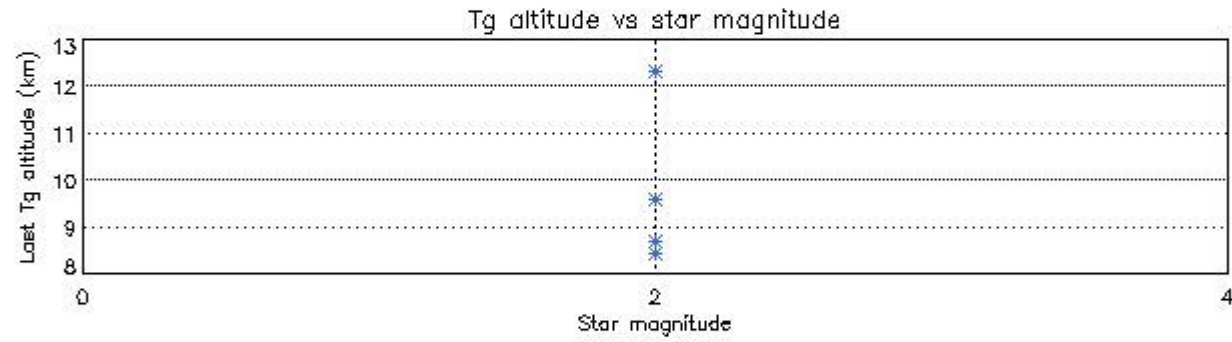
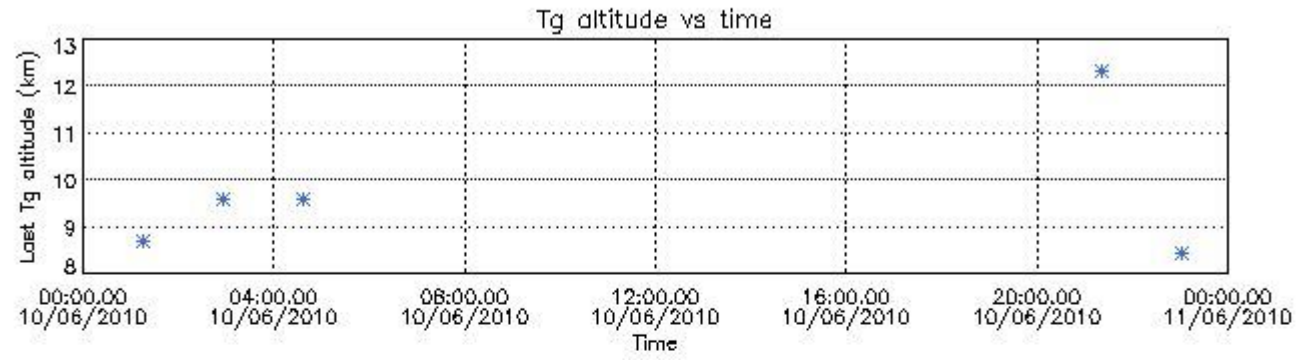
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

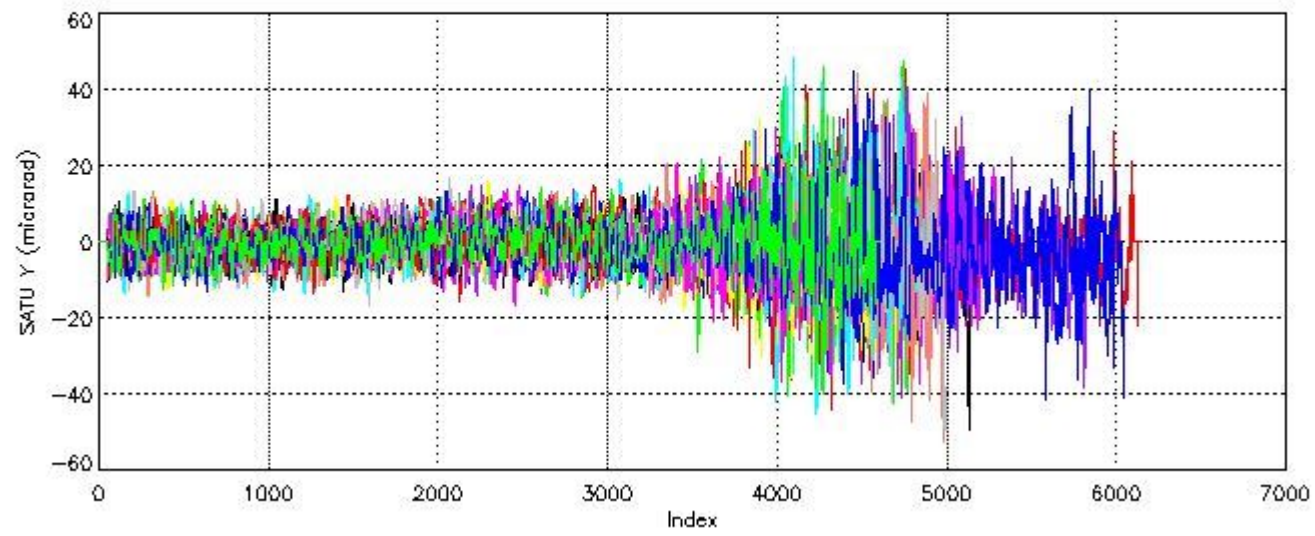
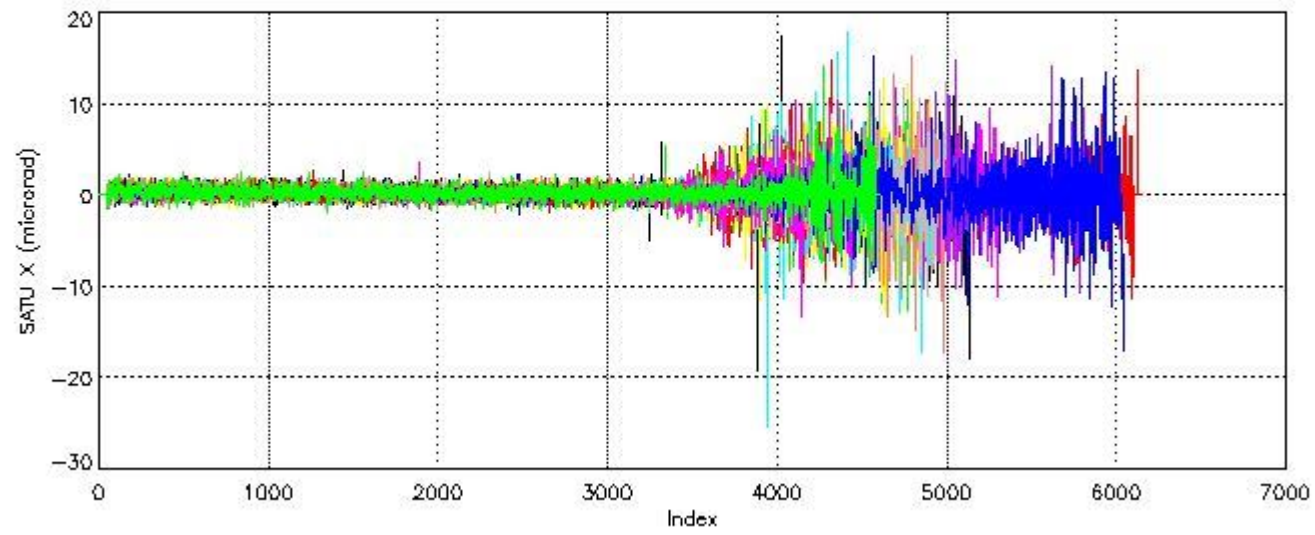


## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function 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 frequency 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:	0.24456	-0.68170	0.23739	-0.64840
St. deviation:	0.39161	3.7823	0.81875	3.6148
Maximum:	2.7000	13.200	4.7000	23.500
Minimum:	-1.6000	-14.200	-3.9000	-18.600

Number of data:	25300.	25300.	68000.	68000.
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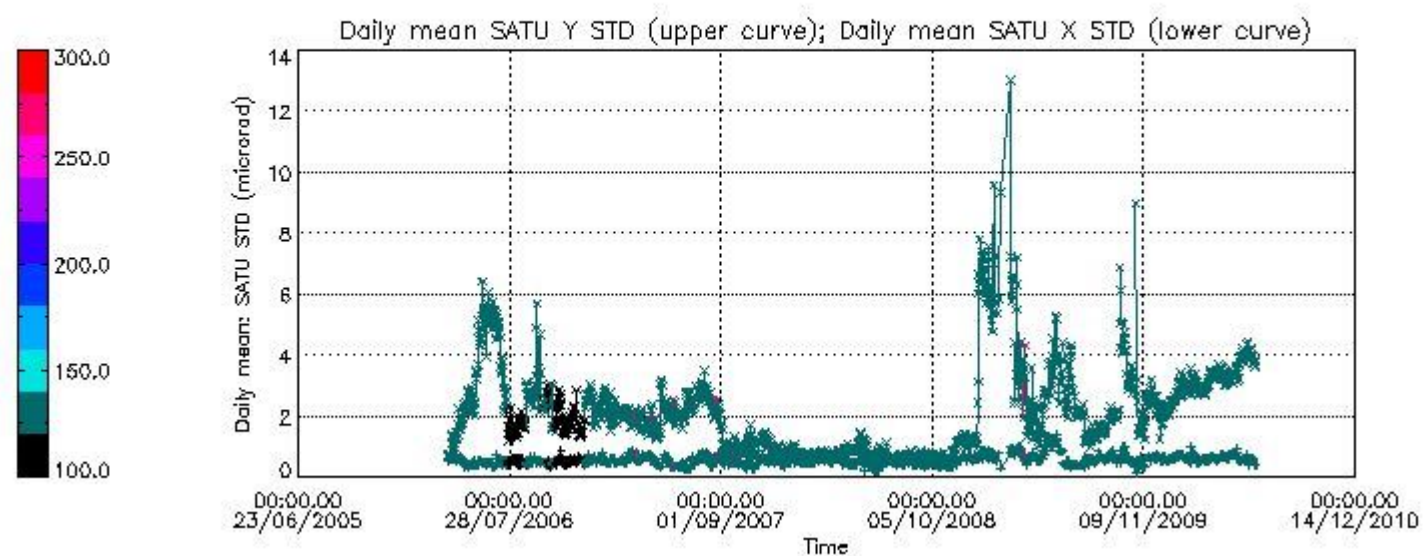
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

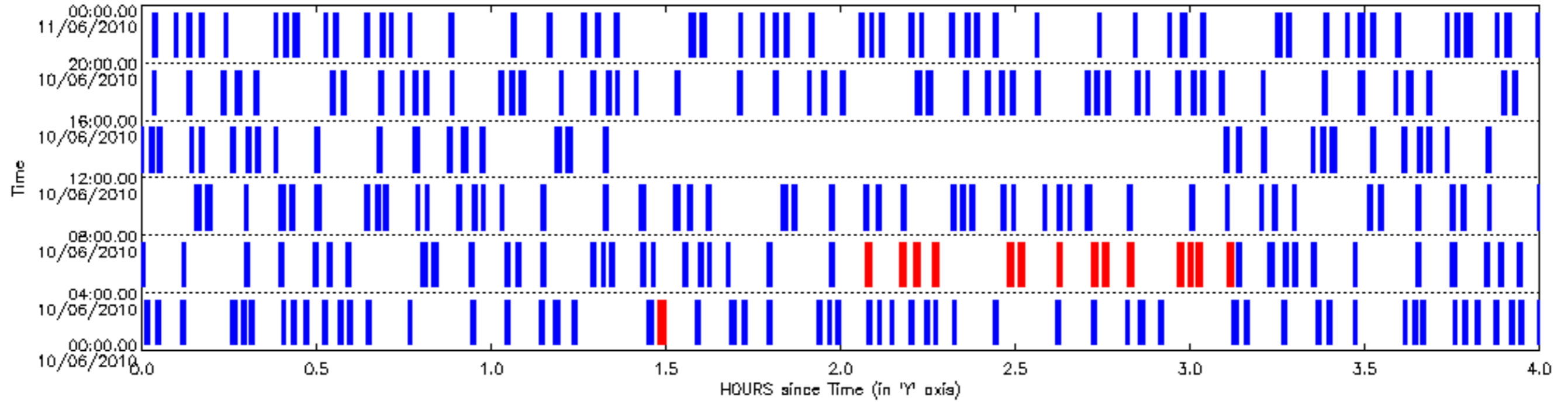
Lower curve: STD of SATU X axis

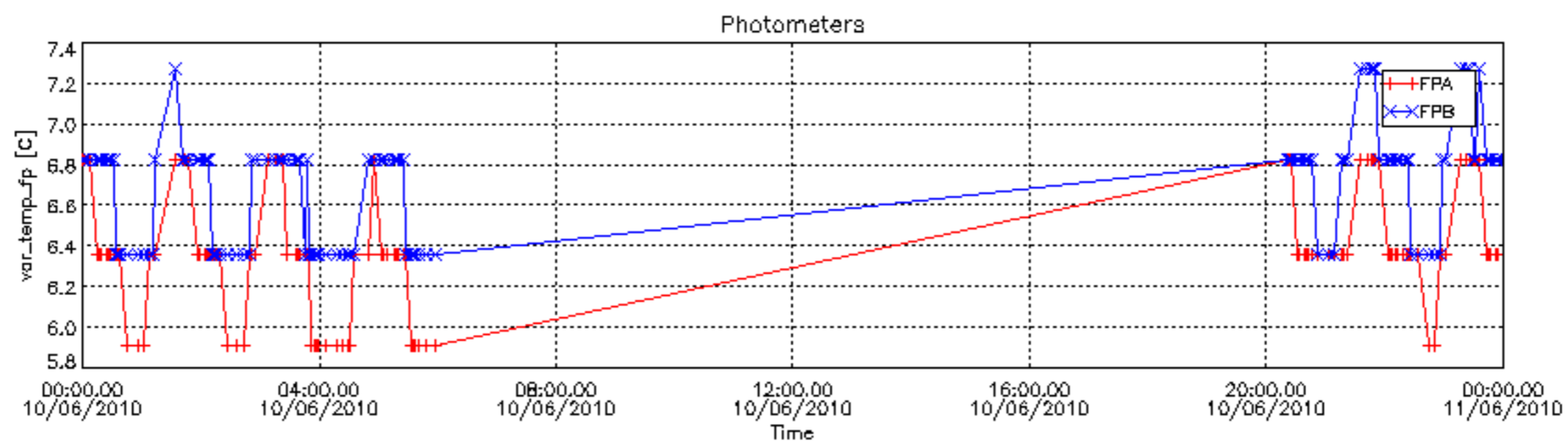
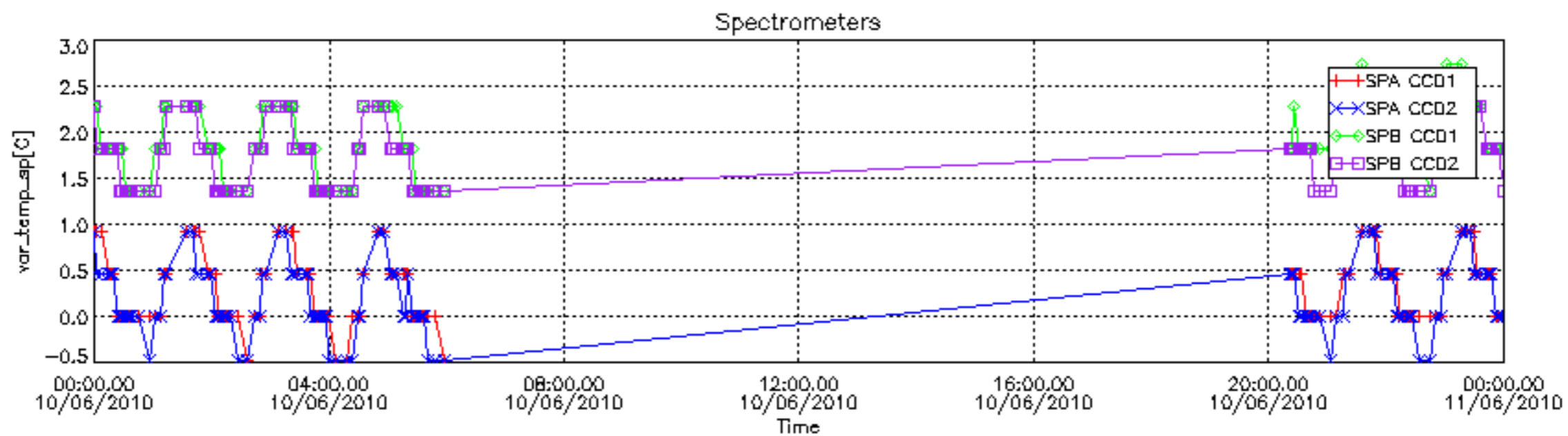


### 8. Auxiliary Data Files used for the production reported in section 2.4

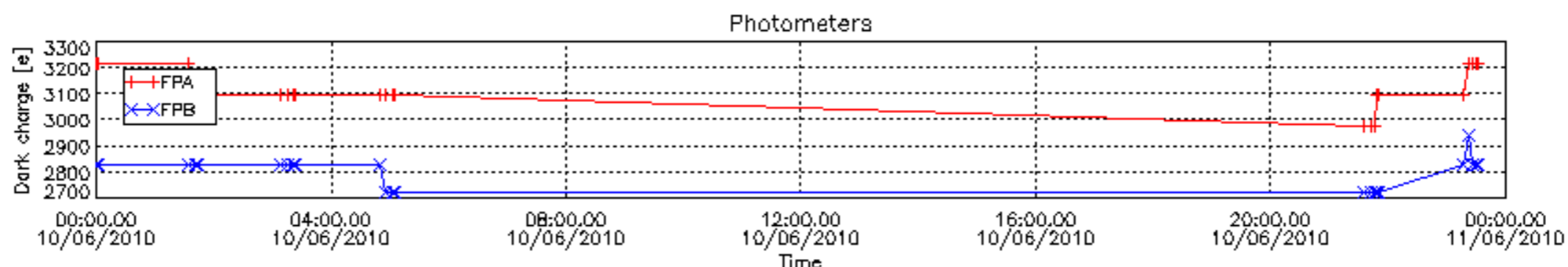
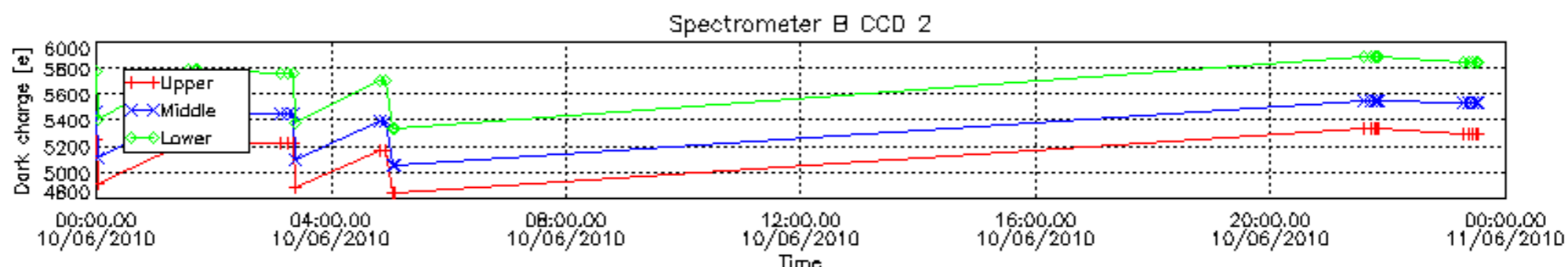
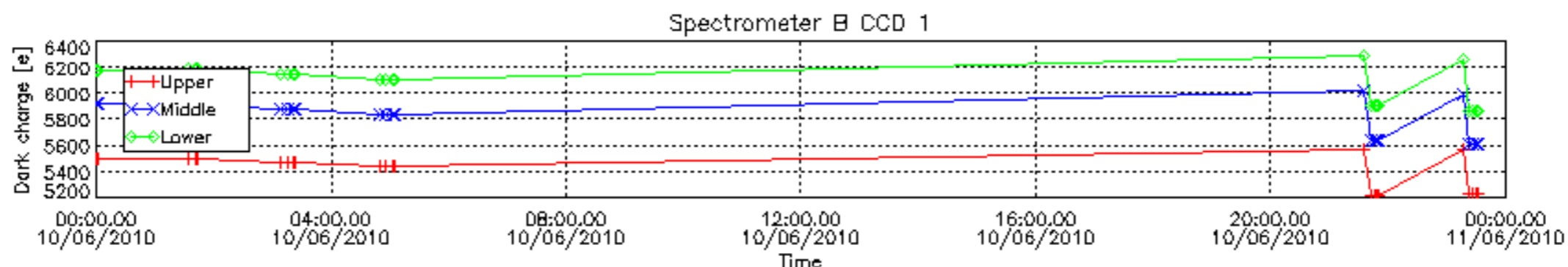
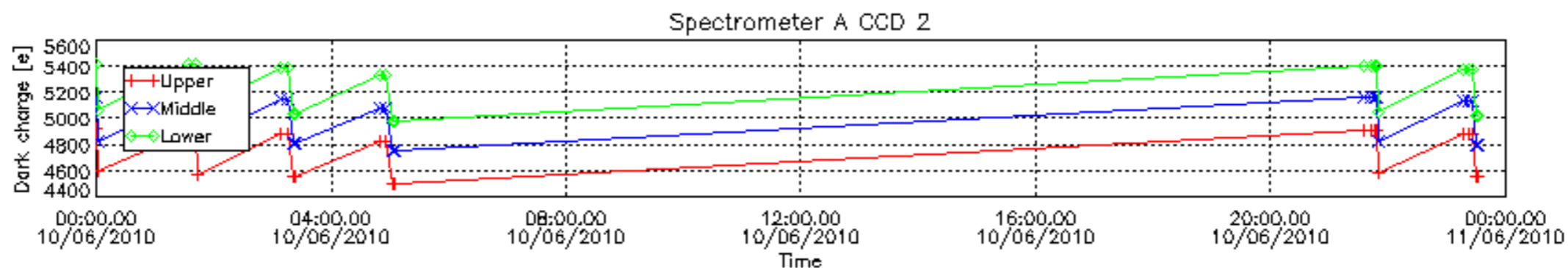
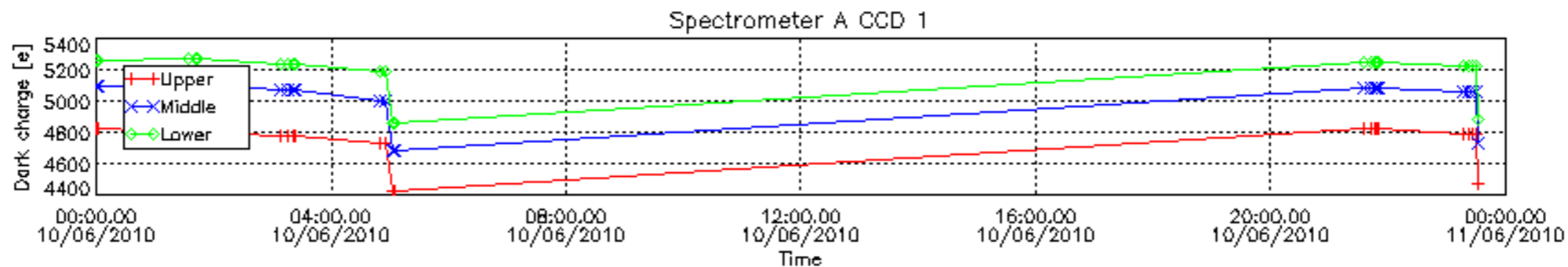
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

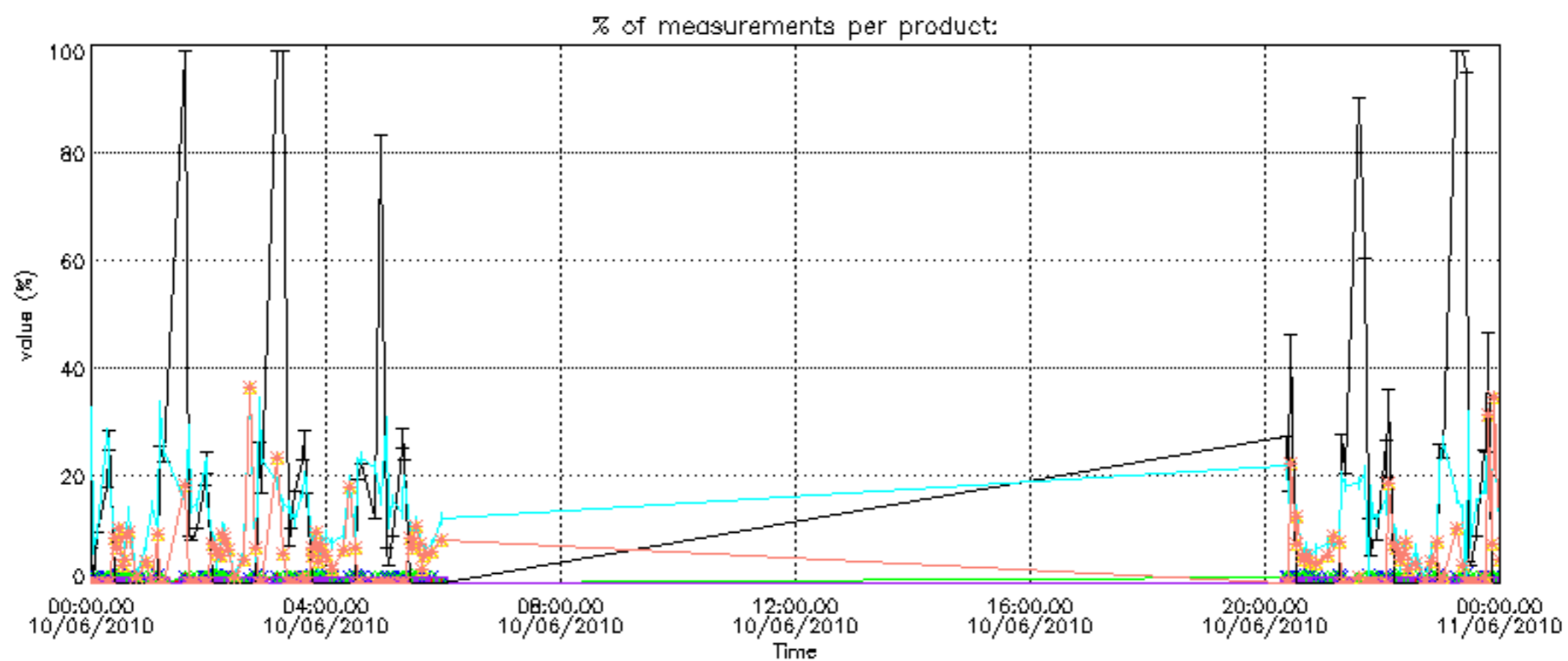
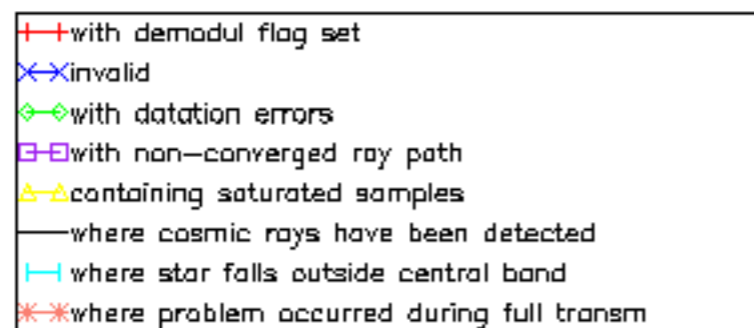
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	10-JUN-2010 00:00:20
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100609_081029_20100607_000000_20500101_000000	1	10-JUN-2010 00:00:20
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	10-JUN-2010 00:00:20
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	10-JUN-2010 00:00:20
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	10-JUN-2010 00:00:20
ECMWF_FILE	AUX_ECF_AXNECM20100609_054113_20100609_210000_20100610_090000	1	10-JUN-2010 00:00:20
ECMWF_FILE	AUX_ECF_AXNECM20100609_172115_20100610_030000_20100610_150000	57	10-JUN-2010 04:23:34
ECMWF_FILE	AUX_ECF_AXNECM20100610_052116_20100610_150000_20100611_030000	77	10-JUN-2010 20:22:32
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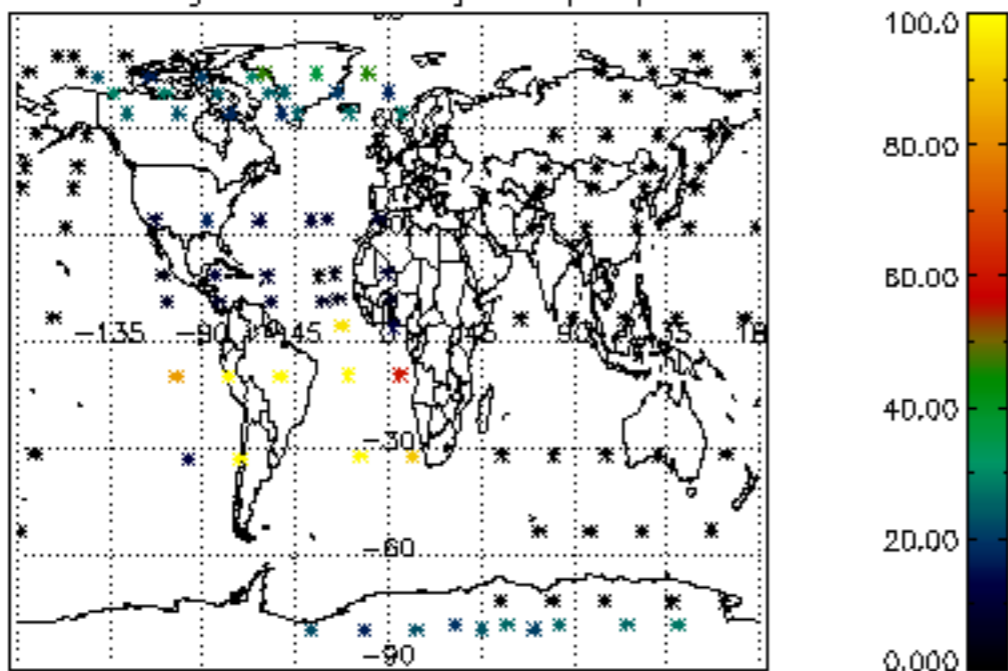




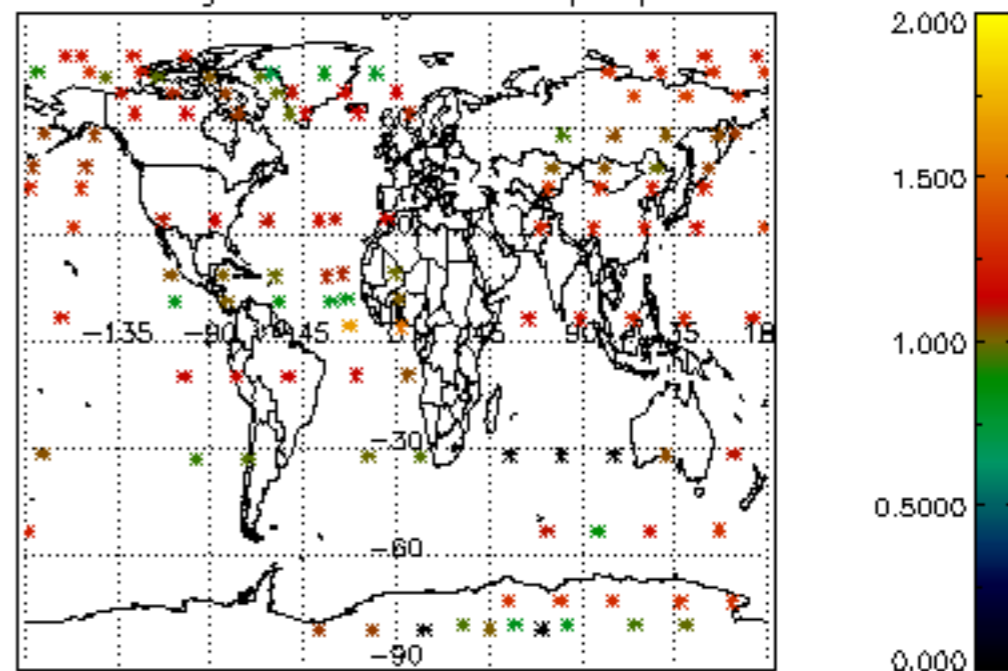




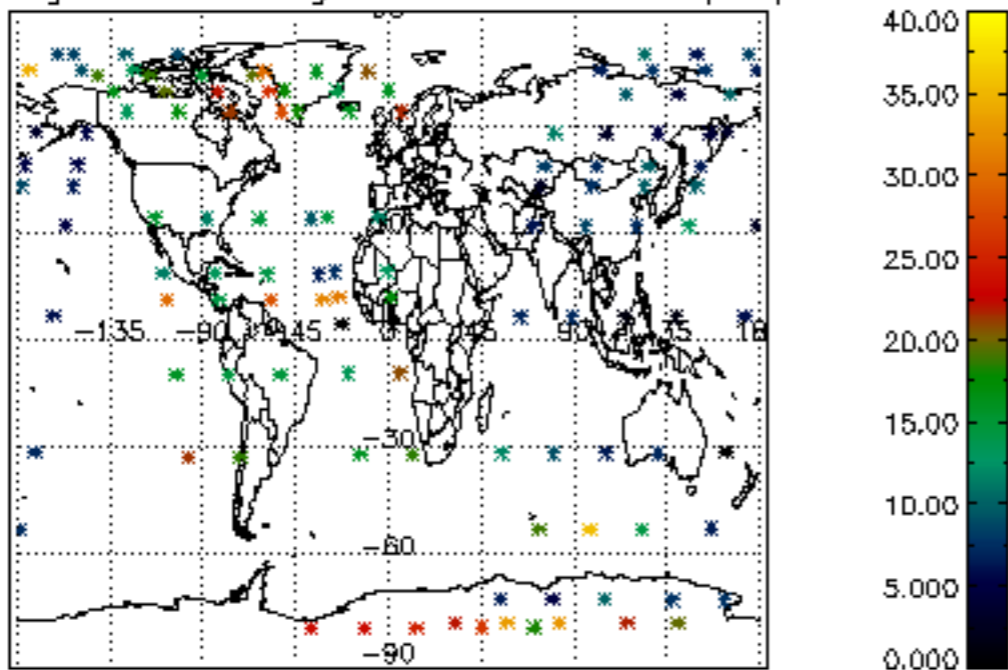
Percentage of cosmic ray hits per profile



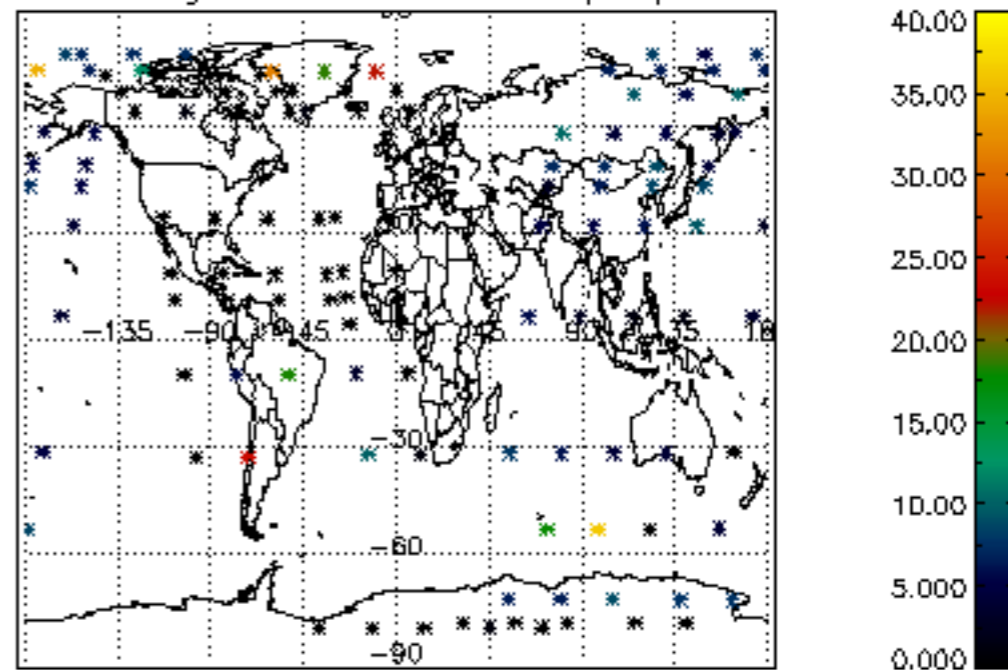
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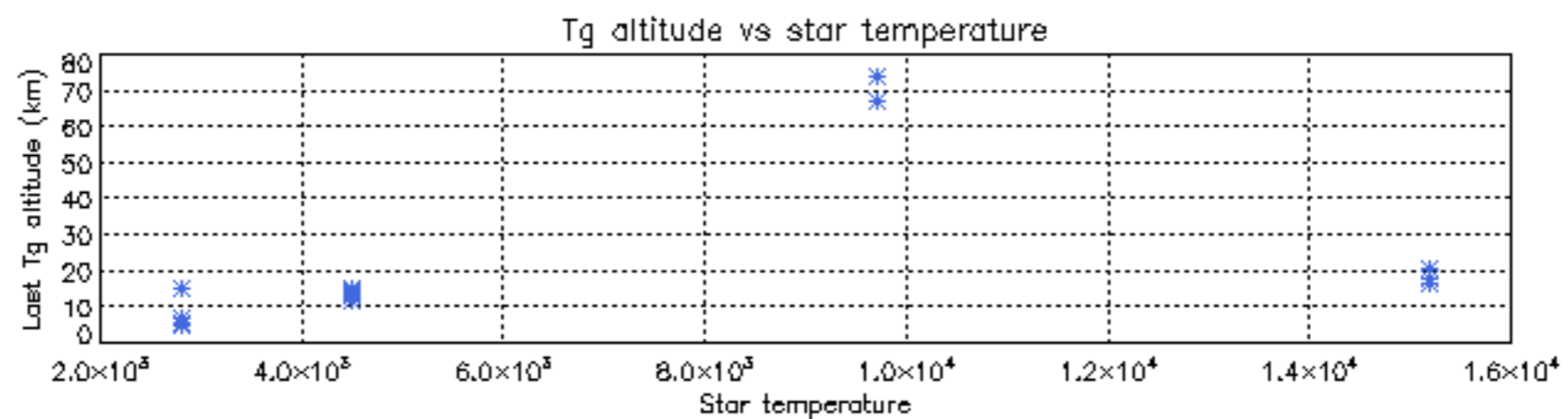
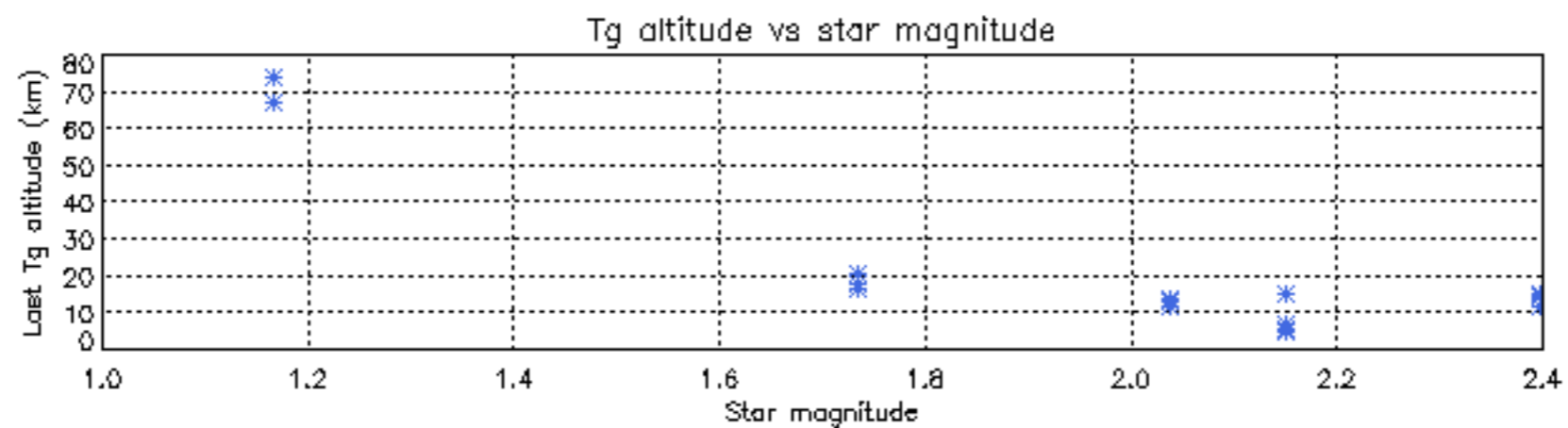
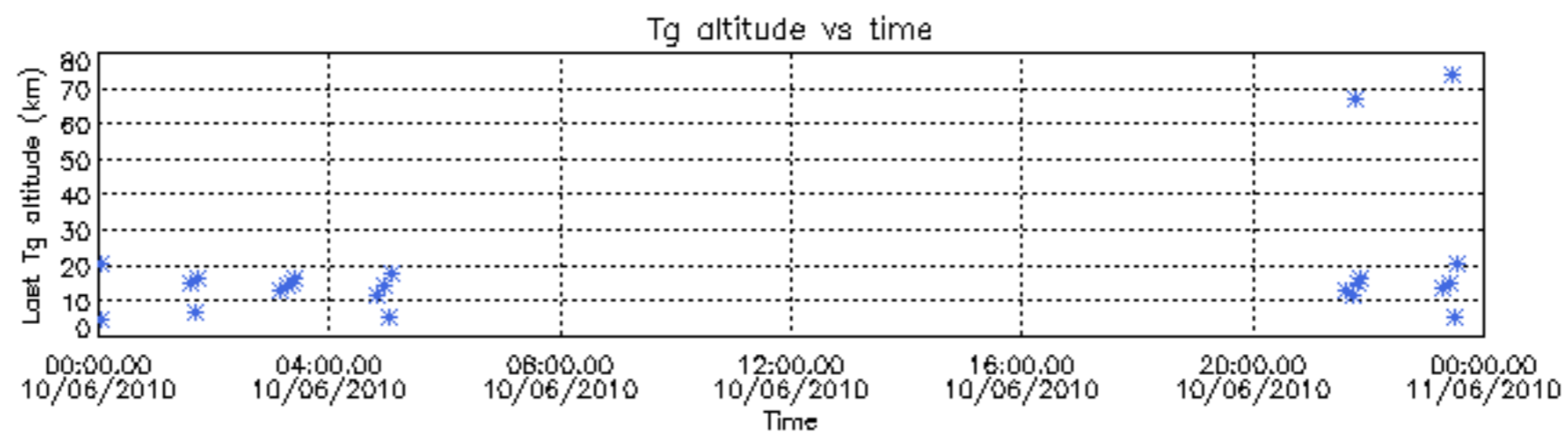
Percentage of star falling outside central band per profile



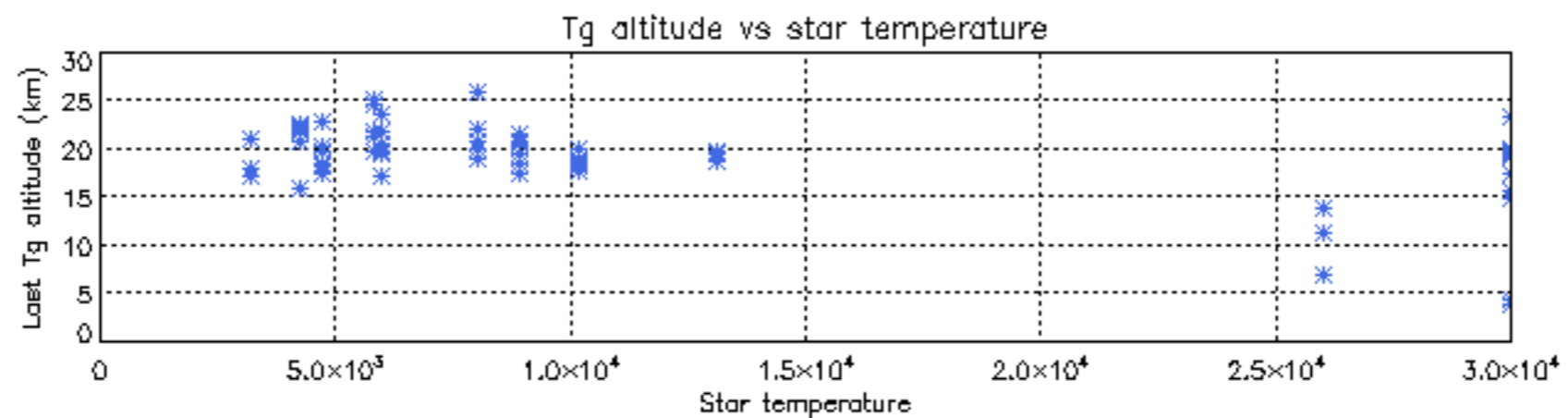
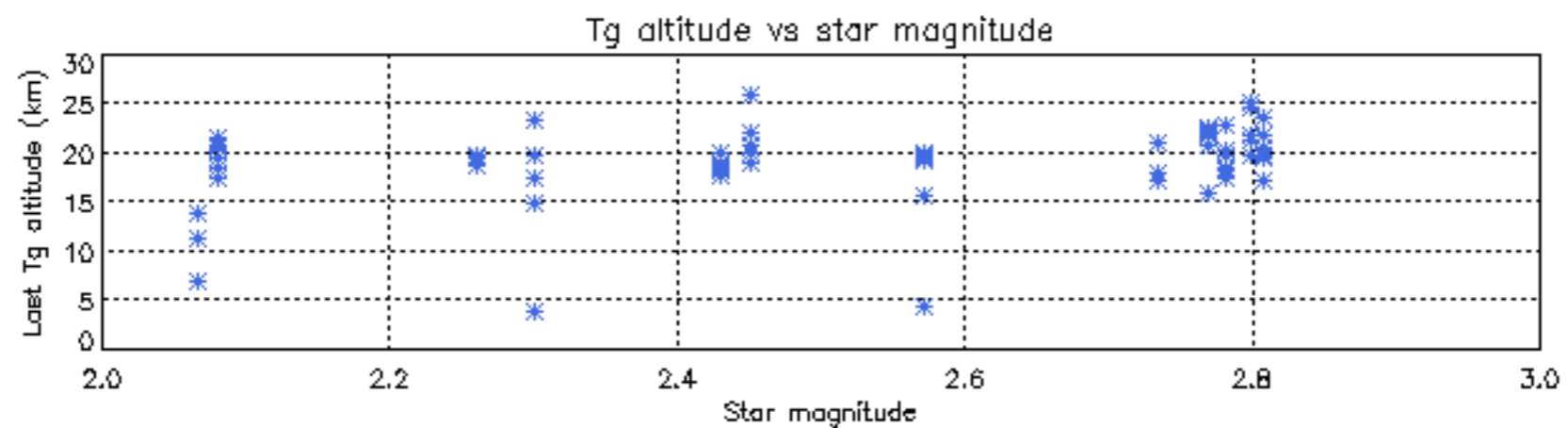
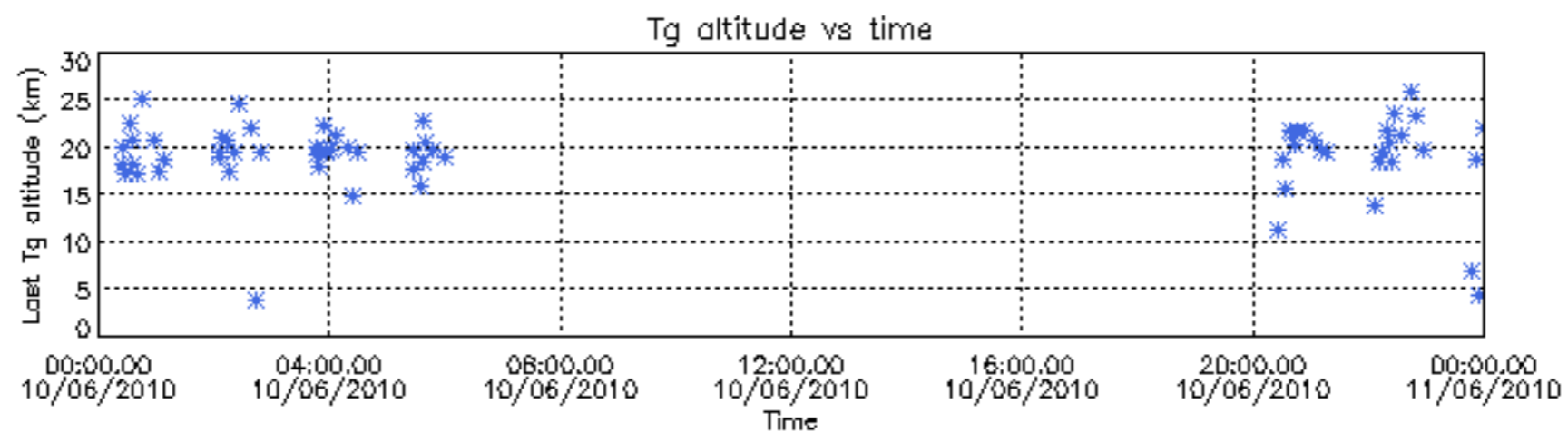
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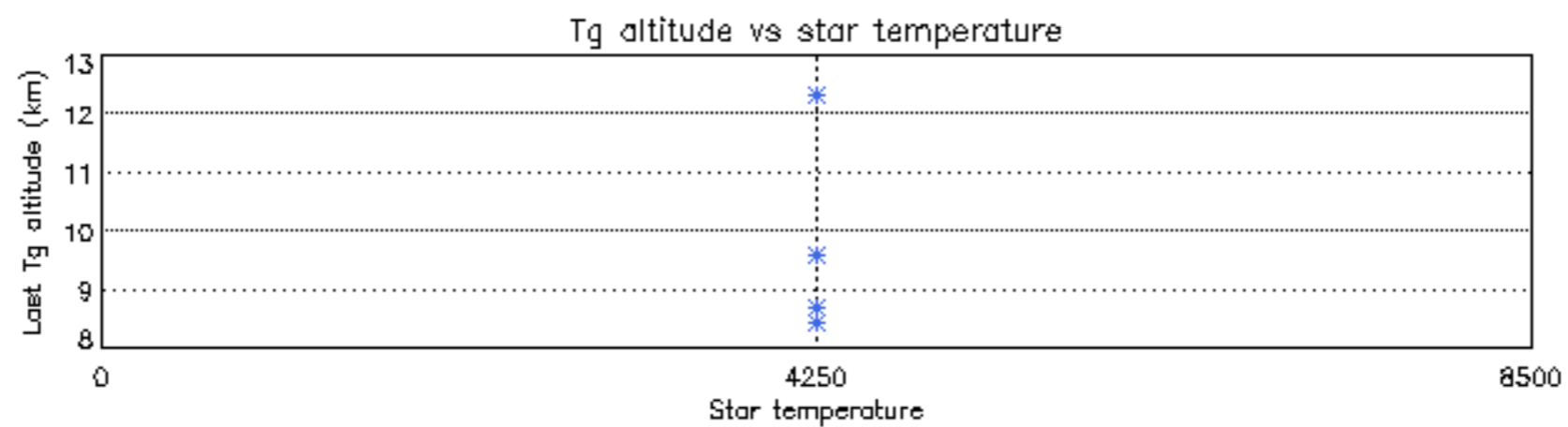
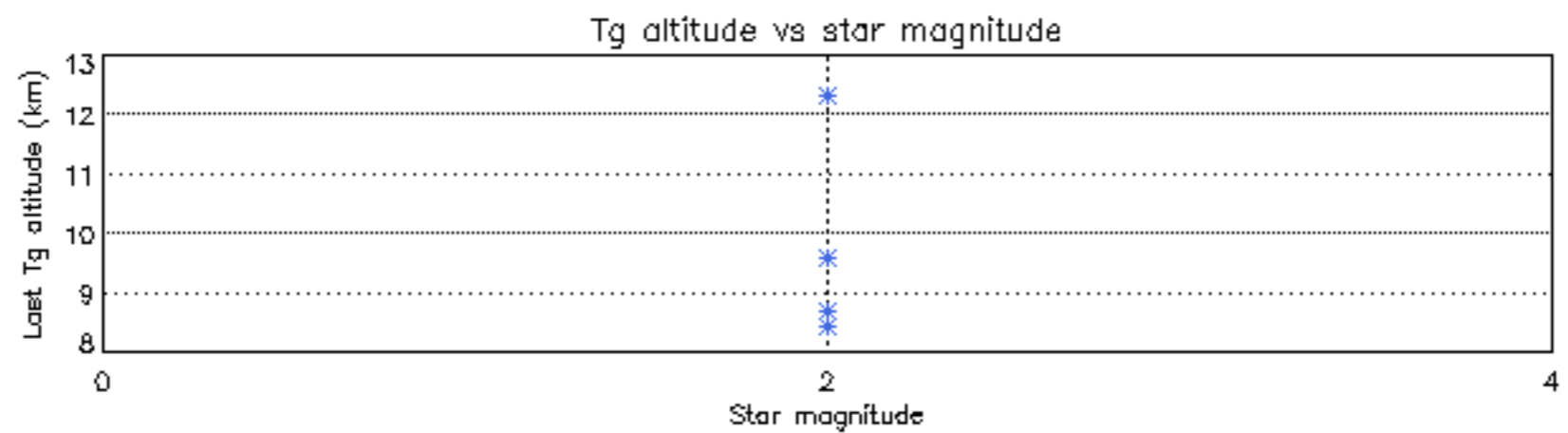
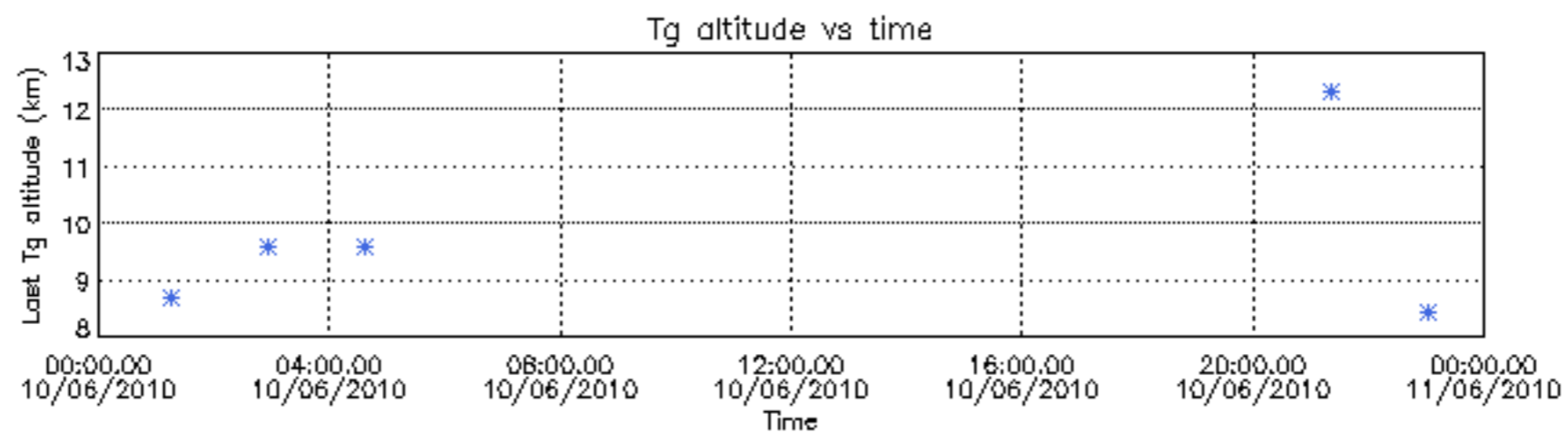
Tangent altitude at which the star is lost

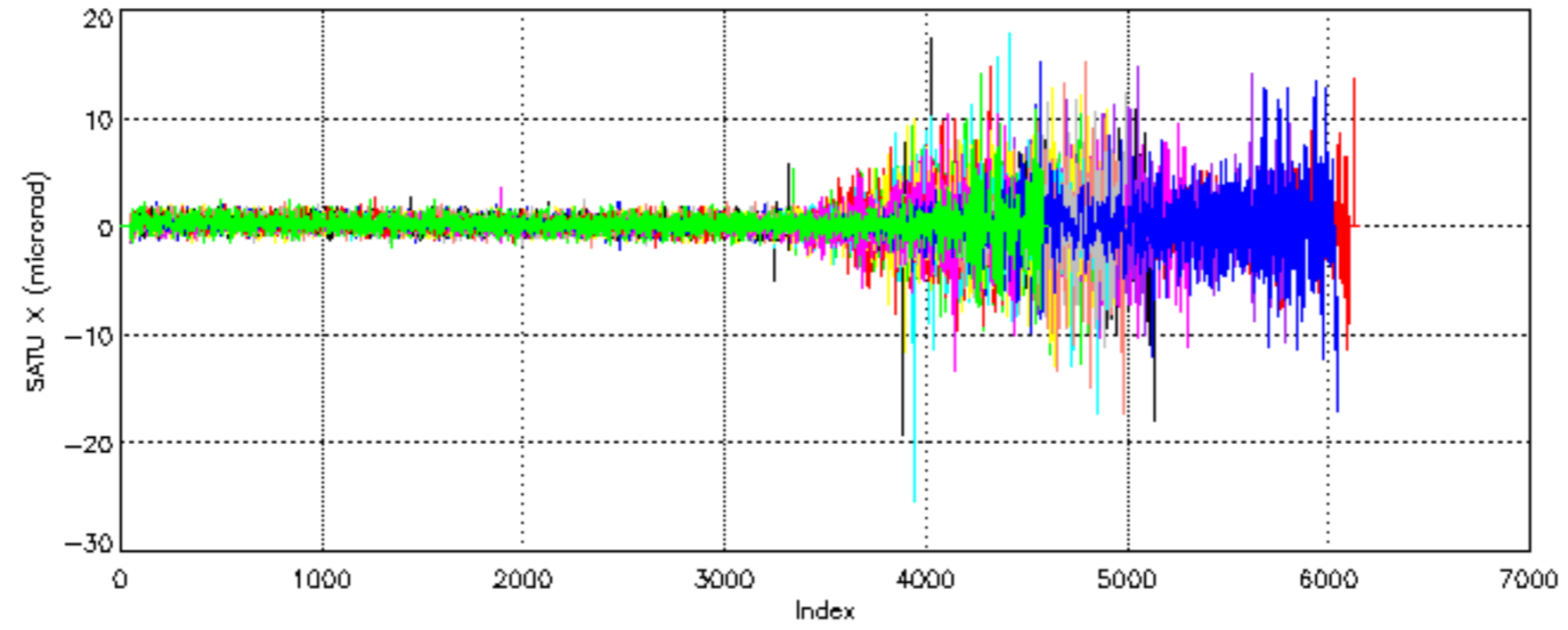


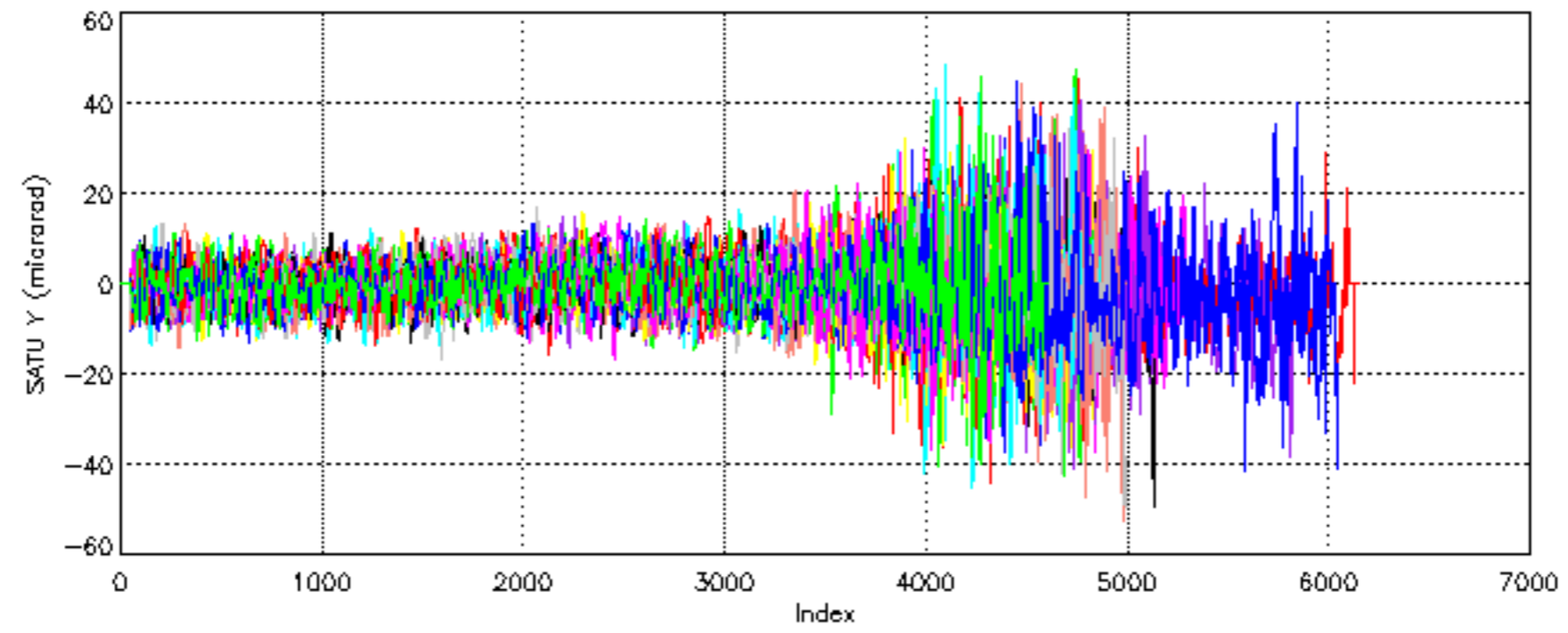
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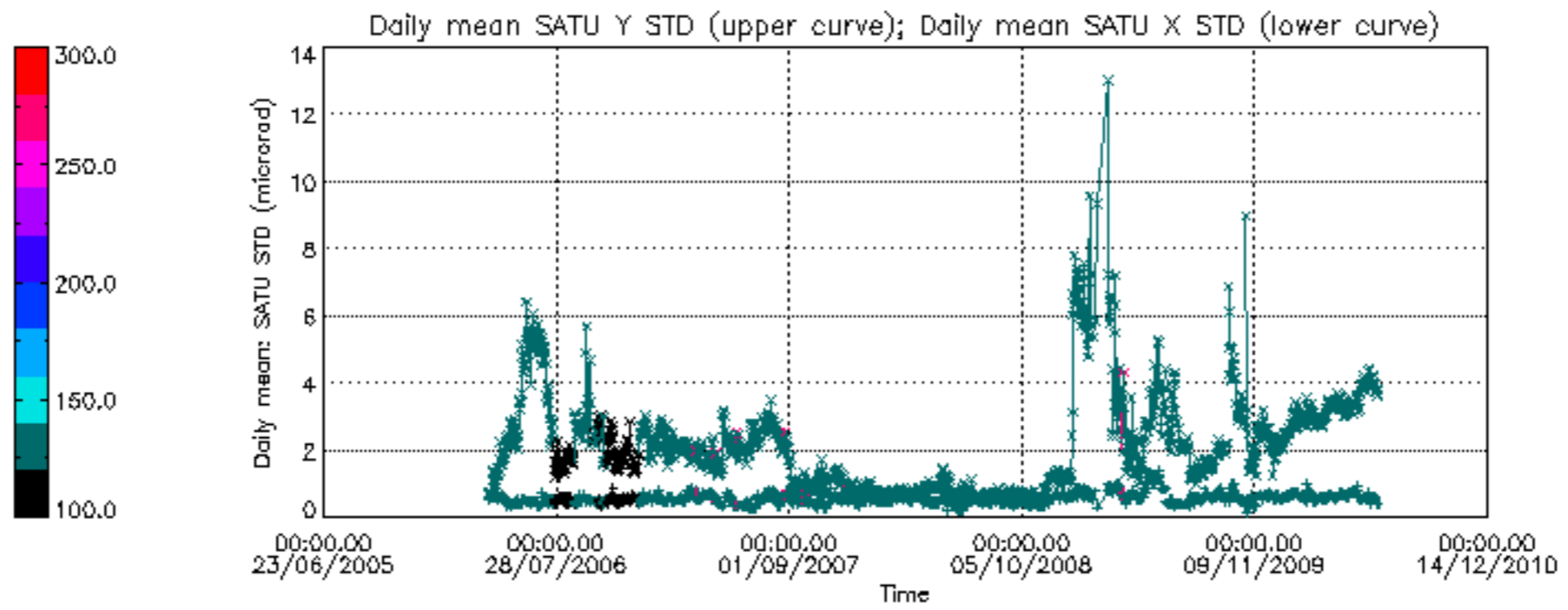
Tangent altitude at which the star is lost











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9; 4265.7; 10-JUN-2010 07:50:40; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;43275  
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15; 6230.2; 10-JUN-2010 08:23:24; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;43276  
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17; 6610.9; 10-JUN-2010 08:29:45; Dark ; 52.5; 45; Alp Pav ; 1.94; 26000;occ; 105; 0;43276  
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21; 7640.3; 10-JUN-2010 08:46:54; Bright; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;43276  
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4; 2287.4; 10-JUN-2010 08:58:17; Bright; 38.5; 127; 27Bet Her ; 2.78; 4700;occ; 77; 0;43276  
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6; 2903.2; 10-JUN-2010 09:08:33; Bright; 42.5; 130; 23Bet Dra ; 2.80; 5800;occ; 85; 0;43276  
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17; 6611.4; 10-JUN-2010 10:10:21; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;43277  
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4; 2287.1; 10-JUN-2010 10:38:53; Bright; 38.5; 127; 27Bet Her ; 2.78; 4700;occ; 77; 0;43277  
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13; 5487.2; 10-JUN-2010 11:32:13; Dark ; 62.0; 52; 16Bet Cet ; 2.04; 4500;occ; 124; 0;43277  
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17; 6612.2; 10-JUN-2010 11:50:58; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;43278  
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3; 2030.7; 10-JUN-2010 12:15:13; Bright; 48.0; 126; 60Bet Oph ; 2.77; 4250;occ; 96; 0;43278  
4; 2188.6; 10-JUN-2010 12:17:50; Bright; 46.5; 59; 55Alp Oph ; 2.08; 8900;occ; 93; 0;43278  
5; 2287.1; 10-JUN-2010 12:19:29; Bright; 39.5; 127; 27Bet Her ; 2.78; 4700;occ; 79; 0;43278  
6; 2477.4; 10-JUN-2010 12:22:39; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;43278  
7; 2902.1; 10-JUN-2010 12:29:44; Bright; 45.5; 130; 23Bet Dra ; 2.80; 5800;occ; 91; 0;43278  
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10; 4265.7; 10-JUN-2010 12:52:27; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;43278  
11; 4405.6; 10-JUN-2010 12:54:47; Dark ; 58.5; 53; 43Bet And ; 2.05; 3300;occ; 117; 0;43278  
12; 4603.4; 10-JUN-2010 12:58:05; Dark ; 48.0; 50; 13Alp Ari ; 2.01; 4250;occ; 96; 0;43278  
13; 5375.0; 10-JUN-2010 13:10:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43278  
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3; 577.6; 10-JUN-2010 15:12:11; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;43280  
4; 1089.4; 10-JUN-2010 15:20:43; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;43280  
5; 1194.2; 10-JUN-2010 15:22:28; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;43280  
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4; 2187.7; 10-JUN-2010 15:39:01; Bright; 48.5; 59; 55Alp Oph ; 2.08; 8900;occ; 97; 0;43280  
5; 2286.6; 10-JUN-2010 15:40:40; Bright; 38.5; 127; 27Bet Her ; 2.78; 4700;occ; 77; 0;43280  
6; 2476.5; 10-JUN-2010 15:43:50; Bright; 39.5; 133; 40Zet Her ; 2.81; 6000;occ; 79; 0;43280



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8; 3544.3; 10-JUN-2010 16:01:38; Bright; 48.0; 89; 5Alp Cep ; 2.45; 8000;occ; 96; 0;43280
9; 3911.3; 10-JUN-2010 16:07:45; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;43280
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7; 2476.2; 10-JUN-2010 17:24:26; Bright; 41.0; 133; 40Zet Her ; 2.81; 6000;occ; 82; 0;43281
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7; 2472.6; 11-JUN-2010 16:52:45; Bright; 39.5; 133; 40Zet Her ; 2.81; 6000;occ; 79; 0;43295  
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9; 3534.3; 11-JUN-2010 17:10:27; Bright; 49.0; 89; 5Alp Cep ; 2.45; 8000;occ; 98; 0;43295  
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8; 2472.3; 11-JUN-2010 18:33:21; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;43296  
9; 2893.8; 11-JUN-2010 18:40:22; Bright; 42.5; 130; 23Bet Dra ; 2.80; 5800;occ; 85; 0;43296  
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15; 5391.7; 11-JUN-2010 19:22:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43296  
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5; 338.4; 12-JUN-2010 00:40:11; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;43300  
6; 432.7; 12-JUN-2010 00:41:45; Dark ; 58.0; 172; Gam Gru ; 3.00; 13100;occ; 116; 0;43300  
7; 589.9; 12-JUN-2010 00:44:22; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;43300  
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13; 2179.0; 12-JUN-2010 01:10:51; Bright; 45.0; 59; 55Alp Oph ; 2.08; 8900;occ; 90; 0;43300  
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15; 2471.2; 12-JUN-2010 01:15:43; Bright; 41.0; 133; 40Zet Her ; 2.81; 6000;occ; 82; 0;43300  
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6; 434.4; 12-JUN-2010 02:22:23; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;43301



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6; 2860.1; 17-JUN-2010 12:08:55; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;43378  
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6; 2275.0; 17-JUN-2010 20:22:09; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;43383  
7; 2454.8; 17-JUN-2010 20:25:09; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;43383  
8; 2857.9; 17-JUN-2010 20:31:52; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;43383  
9; 2958.2; 17-JUN-2010 20:33:32; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;43383  
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11; 3869.0; 17-JUN-2010 20:48:43; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;43383  
12; 3954.0; 17-JUN-2010 20:50:08; Bright; 45.0; 68; 18Alp Cas ; 2.22; 4500;occ; 90; 0;43383  
13; 4063.0; 17-JUN-2010 20:51:57; Bright; 53.0; 160; 23Gam Per ; 2.93; 4700;occ; 106; 0;43383  
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15; 4412.5; 17-JUN-2010 20:57:47; Dark ; 58.5; 53; 43Bet And ; 2.05; 3300;occ; 117; 0;43383  
16; 4626.1; 17-JUN-2010 21:01:20; Dark ; 50.0; 50; 13Alp Ari ; 2.01; 4250;occ; 100; 0;43383

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3; -79.8; 17-JUN-2010 21:23:30; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;43383  
4; 298.3; 17-JUN-2010 21:29:48; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;43384  
5; 421.6; 17-JUN-2010 21:31:52; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;43384  
6; 641.5; 17-JUN-2010 21:35:32; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;43384  
7; 1225.5; 17-JUN-2010 21:45:16; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;43384  
8; 1309.1; 17-JUN-2010 21:46:39; Dark ; 44.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 89; 0;43384  
9; 1616.6; 17-JUN-2010 21:51:47; Bright; 40.0; 86; 35Eta Oph ; 2.43; 10200;occ; 80; 0;43384  
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11; 2150.7; 17-JUN-2010 22:00:41; Bright; 42.0; 59; 55Alp Oph ; 2.08; 8900;occ; 84; 0;43384  
12; 2274.8; 17-JUN-2010 22:02:45; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;43384  
13; 2454.5; 17-JUN-2010 22:05:45; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;43384  
14; 2857.9; 17-JUN-2010 22:12:28; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;43384  
15; 2957.9; 17-JUN-2010 22:14:08; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;43384  
16; 3474.1; 17-JUN-2010 22:22:44; Bright; 48.0; 89; 5Alp Cep ; 2.45; 8000;occ; 96; 0;43384  
17; 3868.5; 17-JUN-2010 22:29:19; Bright; 65.0; 74; 11Bet Cas ; 2.27; 6600;occ; 130; 0;43384  
18; 3953.7; 17-JUN-2010 22:30:44; Bright; 63.0; 68; 18Alp Cas ; 2.22; 4500;occ; 126; 0;43384  
19; 4063.0; 17-JUN-2010 22:32:33; Bright; 53.0; 160; 23Gam Per ; 2.93; 4700;occ; 106; 0;43384  
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21; 4412.2; 17-JUN-2010 22:38:22; Dark ; 67.5; 53; 43Bet And ; 2.05; 3300;occ; 135; 0;43384  
22; 4626.2; 17-JUN-2010 22:41:56; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;43384

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4; 299.3; 17-JUN-2010 23:10:25; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;43385  
5; 422.5; 17-JUN-2010 23:12:28; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;43385  
6; 641.8; 17-JUN-2010 23:16:08; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;43385  
7; 1225.7; 17-JUN-2010 23:25:52; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;43385  
8; 1309.4; 17-JUN-2010 23:27:15; Dark ; 45.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 91; 0;43385  
9; 1616.7; 17-JUN-2010 23:32:23; Bright; 40.0; 86; 35Eta Oph ; 2.43; 10200;occ; 80; 0;43385

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11; 2150.6; 17-JUN-2010 23:41:17; Bright; 42.5; 59; 55Alp Oph ; 2.08; 8900;occ; 85; 0;43385  
12; 2274.8; 17-JUN-2010 23:43:21; Bright; 38.5; 127; 27Bet Her ; 2.78; 4700;occ; 77; 0;43385  
13; 2454.4; 17-JUN-2010 23:46:20; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;43385  
14; 2857.6; 17-JUN-2010 23:53:04; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;43385  
15; 2957.9; 17-JUN-2010 23:54:44; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;43385  
16; 3473.3; 18-JUN-2010 00:03:19; Bright; 48.0; 89; 5Alp Cep ; 2.45; 8000;occ; 96; 0;43385  
17; 3867.9; 18-JUN-2010 00:09:54; Bright; 65.0; 74; 11Bet Cas ; 2.27; 6600;occ; 130; 0;43385  
18; 3953.2; 18-JUN-2010 00:11:19; Bright; 45.0; 68; 18Alp Cas ; 2.22; 4500;occ; 90; 0;43385  
19; 4063.1; 18-JUN-2010 00:13:09; Bright; 53.0; 160; 23Gam Per ; 2.93; 4700;occ; 106; 0;43385  
20; 4269.8; 18-JUN-2010 00:16:36; Bright; 45.0; 73; 57Gam1And ; 2.26; 13100;occ; 90; 0;43385  
21; 4412.3; 18-JUN-2010 00:18:58; Dark ; 63.0; 53; 43Bet And ; 2.05; 3300;occ; 126; 0;43385  
22; 4626.6; 18-JUN-2010 00:22:33; Dark ; 52.0; 50; 13Alp Ari ; 2.01; 4250;occ; 104; 0;43385  
23; 5369.2; 18-JUN-2010 00:34:55; Dark ; 27.5; 0; ; 0.00; 0;occ; 55; 0;43385  
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5; 423.4; 18-JUN-2010 00:53:05; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;43386  
6; 642.7; 18-JUN-2010 00:56:45; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;43386  
7; 1225.9; 18-JUN-2010 01:06:28; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;43386  
8; 1309.7; 18-JUN-2010 01:07:52; Dark ; 47.0; 167; 10Gam2Sgr ; 2.98; 4500;occ; 94; 0;43386  
9; 1616.9; 18-JUN-2010 01:12:59; Bright; 38.5; 86; 35Eta Oph ; 2.43; 10200;occ; 77; 0;43386  
10; 2001.0; 18-JUN-2010 01:19:23; Bright; 42.5; 126; 60Bet Oph ; 2.77; 4250;occ; 85; 0;43386  
11; 2150.1; 18-JUN-2010 01:21:52; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;43386  
12; 2274.5; 18-JUN-2010 01:23:56; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;43386  
13; 2454.3; 18-JUN-2010 01:26:56; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;43386  
14; 2856.8; 18-JUN-2010 01:33:39; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;43386  
15; 2957.9; 18-JUN-2010 01:35:20; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;43386  
16; 3473.1; 18-JUN-2010 01:43:55; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;43386  
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18; 3953.2; 18-JUN-2010 01:51:55; Bright; 44.5; 68; 18Alp Cas ; 2.22; 4500;occ; 89; 0;43386  
19; 4063.2; 18-JUN-2010 01:53:45; Bright; 36.0; 160; 23Gam Per ; 2.93; 4700;occ; 72; 0;43386  
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22; 4627.2; 18-JUN-2010 02:03:09; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;43386  
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4; 301.0; 18-JUN-2010 02:31:39; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;43387  
5; 424.6; 18-JUN-2010 02:33:42; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;43387  
6; 643.6; 18-JUN-2010 02:37:21; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;43387  
7; 1226.4; 18-JUN-2010 02:47:04; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;43387  
8; 1310.0; 18-JUN-2010 02:48:28; Dark ; 47.0; 167; 10Gam2Sgr ; 2.98; 4500;occ; 94; 0;43387  
9; 1617.0; 18-JUN-2010 02:53:35; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;43387  
10; 2000.9; 18-JUN-2010 02:59:59; Bright; 43.0; 126; 60Bet Oph ; 2.77; 4250;occ; 86; 0;43387  
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13; 2454.3; 18-JUN-2010 03:07:32; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;43387  
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13; 1226.6; 18-JUN-2010 04:27:40; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;43388

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15; 1617.5; 18-JUN-2010 04:34:11; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;43388  
16; 2001.0; 18-JUN-2010 04:40:35; Bright; 43.5; 126; 60Bet Oph ; 2.77; 4250;occ; 87; 0;43388  
17; 2149.8; 18-JUN-2010 04:43:04; Bright; 44.0; 59; 55Alp Oph ; 2.08; 8900;occ; 88; 0;43388  
18; 2275.0; 18-JUN-2010 04:45:09; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;43388  
19; 2454.1; 18-JUN-2010 04:48:08; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;43388  
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21; 2957.8; 18-JUN-2010 04:56:32; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;43388  
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12; 644.7; 18-JUN-2010 05:58:34; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;43389  
13; 1227.1; 18-JUN-2010 06:08:17; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;43389  
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18; 2275.1; 18-JUN-2010 06:25:45; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;43389  
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 22; 6693.4; 19-JUN-2010 18:51:57; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;43411

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13; 4064.0; 19-JUN-2010 19:48:44; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;43411  
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13; 2451.1; 19-JUN-2010 22:43:03; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;43413  
14; 2848.0; 19-JUN-2010 22:49:40; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;43413  
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16; 3454.3; 19-JUN-2010 22:59:46; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;43413  
17; 3857.9; 19-JUN-2010 23:06:30; Bright; 66.0; 74; 11Bet Cas ; 2.27; 6600;occ; 132; 0;43413  
18; 3945.6; 19-JUN-2010 23:07:58; Bright; 58.0; 68; 18Alp Cas ; 2.22; 4500;occ; 116; 0;43413  
19; 4064.0; 19-JUN-2010 23:09:56; Bright; 53.0; 160; 23Gam Per ; 2.93; 4700;occ; 106; 0;43413  
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13; 2450.9; 20-JUN-2010 00:23:39; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;43414  
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13; 2450.8; 20-JUN-2010 02:04:14; Bright; 39.5; 133; 40Zet Her ; 2.81; 6000;occ; 79; 0;43415  
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31; 7656.9; 20-JUN-2010 03:31:01; Bright; 39.5; 86; 35Eta Oph ; 2.43; 10200;occ; 79; 0;43416  
32; 8031.5; 20-JUN-2010 03:37:15; Bright; 43.0; 126; 60Bet Oph ; 2.77; 4250;occ; 86; 0;43416  
33; 8178.9; 20-JUN-2010 03:39:43; Bright; 40.0; 59; 55Alp Oph ; 2.08; 8900;occ; 80; 0;43416  
34; 8309.9; 20-JUN-2010 03:41:54; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;43416  
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 13; 4642.0; 22-JUN-2010 08:19:55; Dark ; 50.5; 50; 13Alp Ari ; 2.01; 4250;occ; 101; 0;43447  
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 17; 6397.4; 22-JUN-2010 08:49:11; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;43448  
 18; 6519.9; 22-JUN-2010 08:51:13; Dark ; 52.5; 31; Alp Gru ; 1.73; 15200;occ; 105; 0;43448  
 19; 6714.3; 22-JUN-2010 08:54:28; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;43448  
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 22; 7489.9; 22-JUN-2010 09:07:23; Bright; 52.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 104; 0;43448  
 23; 7661.1; 22-JUN-2010 09:10:14; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;43448

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 3; 2447.7; 22-JUN-2010 09:23:57; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;43448  
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 11; 4414.0; 22-JUN-2010 09:56:43; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;43448  
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 13; 5406.8; 22-JUN-2010 10:13:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43448  
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 4; 2726.5; 22-JUN-2010 11:09:12; Bright; 52.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 104; 0;43449  
 5; 2836.7; 22-JUN-2010 11:11:02; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;43449  
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 22; 4934.2; 23-JUN-2010 01:10:47; Dark ; 36.0; 94; 92Alp Cet ; 2.53; 3100;occ; 72; 0;43457

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 13; 2833.9; 23-JUN-2010 02:16:22; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;43458  
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 22; 5413.3; 23-JUN-2010 02:59:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43458  
 23; 6021.3; 23-JUN-2010 03:09:30; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;43458  
 24; 6408.2; 23-JUN-2010 03:15:57; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;43459  
 25; 6530.7; 23-JUN-2010 03:17:59; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;43459  
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 27; 7276.4; 23-JUN-2010 03:30:25; Dark ; 46.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 93; 0;43459  
 28; 7361.8; 23-JUN-2010 03:31:50; Dark ; 51.5; 116; 19Del Sgr ; 2.70; 4100;occ; 103; 0;43459  
 29; 7492.4; 23-JUN-2010 03:34:01; Bright; 48.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 97; 0;43459  
 30; 8025.2; 23-JUN-2010 03:42:54; Bright; 42.0; 126; 60Bet Oph ; 2.77; 4250;occ; 84; 0;43459  
 31; 8169.8; 23-JUN-2010 03:45:18; Bright; 41.5; 59; 55Alp Oph ; 2.08; 8900;occ; 83; 0;43459  
 32; 8483.4; 23-JUN-2010 03:50:32; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;43459  
 33; 8755.5; 23-JUN-2010 03:55:04; Bright; 49.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 98; 0;43459  
 34; 8869.6; 23-JUN-2010 03:56:58; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;43459

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 13; 6531.9; 23-JUN-2010 04:58:36; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;43460  
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 18; 8025.5; 23-JUN-2010 05:23:30; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;43460  
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 22; 8869.5; 23-JUN-2010 05:37:34; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;43460  
 23; 9458.2; 23-JUN-2010 05:47:22; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;43460

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 6; -1390.3; 23-JUN-2010 06:07:46; Dark ; 53.0; 50; 13Alp Ari ; 2.01; 4250;occ; 106; 0;43460  
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 11; 496.6; 23-JUN-2010 06:39:13; Dark ; 53.5; 31; Alp Gru ; 1.73; 15200;occ; 107; 0;43461  
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 13; 1241.1; 23-JUN-2010 06:51:37; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;43461  
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 15; 1456.9; 23-JUN-2010 06:55:13; Bright; 52.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 104; 0;43461  
 16; 1989.3; 23-JUN-2010 07:04:06; Bright; 40.5; 126; 60Bet Oph ; 2.77; 4250;occ; 81; 0;43461  
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 13; 1241.5; 23-JUN-2010 08:32:14; Dark ; 47.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 95; 0;43462  
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3; 384.5; 23-JUN-2010 23:23:20; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;43471
4; 506.4; 23-JUN-2010 23:25:22; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;43471
5; 691.3; 23-JUN-2010 23:28:27; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;43471
6; 1244.0; 23-JUN-2010 23:37:40; Dark ; 42.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 85; 0;43471
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10; 2132.4; 23-JUN-2010 23:52:28; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;43471
11; 2446.6; 23-JUN-2010 23:57:42; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;43471
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15; 3834.2; 24-JUN-2010 00:20:50; Bright; 67.0; 74; 11Bet Cas ; 2.27; 6600;occ; 134; 0;43471
16; 3927.2; 24-JUN-2010 00:22:23; Bright; 47.5; 68; 18Alp Cas ; 2.22; 4500;occ; 95; 0;43471
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 5; 691.9; 24-JUN-2010 01:09:03; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;43472
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 8; 1459.5; 24-JUN-2010 01:21:51; Bright; 51.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 102; 0;43472
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11; 2446.4; 24-JUN-2010 01:38:18; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;43472
12; 2710.8; 24-JUN-2010 01:42:42; Bright; 51.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 103; 0;43472
13; 2830.4; 24-JUN-2010 01:44:42; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;43472
14; 3414.0; 24-JUN-2010 01:54:25; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;43472
15; 3833.7; 24-JUN-2010 02:01:25; Bright; 59.5; 74; 11Bet Cas ; 2.27; 6600;occ; 119; 0;43472
16; 3926.6; 24-JUN-2010 02:02:58; Bright; 46.5; 68; 18Alp Cas ; 2.22; 4500;occ; 93; 0;43472
17; 4064.8; 24-JUN-2010 02:05:16; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43472
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 3; 386.5; 24-JUN-2010 02:44:34; Dark ; 64.5; 63; Bet Gru ; 2.15; 2800;occ; 129; 0;43473
 4; 508.0; 24-JUN-2010 02:46:35; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;43473
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 6; 1244.6; 24-JUN-2010 02:58:52; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;43473
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10; 2132.0; 24-JUN-2010 03:13:39; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;43473
11; 2446.5; 24-JUN-2010 03:18:54; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;43473
12; 2710.0; 24-JUN-2010 03:23:17; Bright; 49.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 99; 0;43473
13; 2830.2; 24-JUN-2010 03:25:17; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;43473
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 3;-1971.1; 24-JUN-2010 03:45:52; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43473
 4;-1765.9; 24-JUN-2010 03:49:17; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;43473
 5;-1619.5; 24-JUN-2010 03:51:44; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;43473
 6;-1387.1; 24-JUN-2010 03:55:36; Dark ; 55.0; 50; 13Alp Ari ; 2.01; 4250;occ; 110; 0;43473
 7;-1096.6; 24-JUN-2010 04:00:27; Dark ; 37.5; 94; 92Alp Cet ; 2.53; 3100;occ; 75; 0;43473
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10; 387.5; 24-JUN-2010 04:25:11; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;43474
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12; 693.1; 24-JUN-2010 04:30:16; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;43474
13; 1245.2; 24-JUN-2010 04:39:28; Dark ; 44.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 88; 0;43474
14; 1330.1; 24-JUN-2010 04:40:53; Dark ; 51.0; 116; 19Del Sgr ; 2.70; 4100;occ; 102; 0;43474
15; 1459.9; 24-JUN-2010 04:43:03; Bright; 51.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 102; 0;43474
16; 1988.1; 24-JUN-2010 04:51:51; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;43474
17; 2131.7; 24-JUN-2010 04:54:15; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;43474
18; 2446.6; 24-JUN-2010 04:59:30; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;43474
19; 2709.6; 24-JUN-2010 05:03:53; Bright; 49.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 98; 0;43474
20; 2829.6; 24-JUN-2010 05:05:53; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;43474
21; 3412.7; 24-JUN-2010 05:15:36; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;43474

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 7; -1096.4; 24-JUN-2010 05:41:03; Dark ; 38.0; 94; 92Alp Cet ; 2.53; 3100;occ; 76; 0;43474  
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 12; 693.5; 24-JUN-2010 06:10:53; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;43475  
 13; 1245.7; 24-JUN-2010 06:20:05; Dark ; 47.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 94; 0;43475  
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 19; 2708.7; 24-JUN-2010 06:44:28; Bright; 49.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 99; 0;43475  
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 5; 2130.3; 24-JUN-2010 19:59:37; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;43483  
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 13; 2827.1; 24-JUN-2010 21:51:50; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;43484  
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3; 10.0; 25-JUN-2010 00:26:04; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;43486
4; 399.1; 25-JUN-2010 00:32:33; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;43486
5; 520.4; 25-JUN-2010 00:34:35; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;43486
6; 699.5; 25-JUN-2010 00:37:34; Dark ; 49.5; 45; Alp Pav ; 1.94; 26000;occ; 99; 0;43486
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8; 1333.3; 25-JUN-2010 00:48:08; Dark ; 51.5; 116; 19Del Sgr ; 2.70; 4100;occ; 103; 0;43486
9; 1462.4; 25-JUN-2010 00:50:17; Bright; 50.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 101; 0;43486
10; 1986.6; 25-JUN-2010 00:59:01; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;43486
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13; 2826.6; 25-JUN-2010 01:13:01; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;43486
14; 3404.5; 25-JUN-2010 01:22:39; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;43486
15; 3827.4; 25-JUN-2010 01:29:42; Bright; 47.5; 74; 11Bet Cas ; 2.27; 6600;occ; 95; 0;43486
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19; 4417.1; 25-JUN-2010 01:39:31; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;43486
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3; 10.9; 25-JUN-2010 02:06:41; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;43487
4; 400.3; 25-JUN-2010 02:13:10; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;43487
5; 521.4; 25-JUN-2010 02:15:12; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;43487
6; 700.1; 25-JUN-2010 02:18:10; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;43487
7; 1248.8; 25-JUN-2010 02:27:19; Dark ; 44.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 88; 0;43487
8; 1333.6; 25-JUN-2010 02:28:44; Dark ; 48.5; 116; 19Del Sgr ; 2.70; 4100;occ; 97; 0;43487
9; 1462.7; 25-JUN-2010 02:30:53; Bright; 48.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 96; 0;43487
10; 1986.6; 25-JUN-2010 02:39:37; Bright; 40.5; 126; 60Bet Oph ; 2.77; 4250;occ; 81; 0;43487
11; 2129.9; 25-JUN-2010 02:42:00; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;43487
12; 2700.9; 25-JUN-2010 02:51:31; Bright; 50.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 100; 0;43487
13; 2826.6; 25-JUN-2010 02:53:37; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;43487
14; 3403.6; 25-JUN-2010 03:03:14; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;43487
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2; -2114.5; 25-JUN-2010 03:11:52; Bright; 46.0; 68; 18Alp Cas ; 2.22; 4500;occ; 92; 0;43487
3; -1970.9; 25-JUN-2010 03:14:15; Bright; 33.5; 160; 23Gam Per ; 2.93; 4700;occ; 67; 0;43487
4; -1765.8; 25-JUN-2010 03:17:40; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;43487
5; -1618.4; 25-JUN-2010 03:20:08; Dark ; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;43487
6; -1383.2; 25-JUN-2010 03:24:03; Dark ; 62.0; 50; 13Alp Ari ; 2.01; 4250;occ; 124; 0;43487
7; -602.7; 25-JUN-2010 03:37:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43487
8; -313.2; 25-JUN-2010 03:41:53; Dark ; 53.0; 52; 16Bet Cet ; 2.04; 4500;occ; 106; 0;43487
9; 12.0; 25-JUN-2010 03:47:18; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;43488
10; 401.2; 25-JUN-2010 03:53:47; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;43488
11; 522.3; 25-JUN-2010 03:55:48; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;43488
12; 700.5; 25-JUN-2010 03:58:47; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;43488
13; 1249.4; 25-JUN-2010 04:07:55; Dark ; 46.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 93; 0;43488
14; 1334.1; 25-JUN-2010 04:09:20; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;43488
15; 1462.9; 25-JUN-2010 04:11:29; Bright; 50.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 101; 0;43488
16; 1986.8; 25-JUN-2010 04:20:13; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;43488
17; 2130.0; 25-JUN-2010 04:22:36; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;43488
18; 2700.3; 25-JUN-2010 04:32:06; Bright; 49.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 98; 0;43488
19; 2826.3; 25-JUN-2010 04:34:12; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;43488
20; 3403.2; 25-JUN-2010 04:43:49; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;43488

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 3; -1971.3; 25-JUN-2010 04:54:51; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43488  
 4; -1765.8; 25-JUN-2010 04:58:16; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;43488  
 5; -1618.2; 25-JUN-2010 05:00:44; Dark ; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;43488  
 6; -1382.9; 25-JUN-2010 05:04:39; Dark ; 54.5; 50; 13Alp Ari ; 2.01; 4250;occ; 109; 0;43488  
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 9; 12.9; 25-JUN-2010 05:27:55; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;43489  
 10; 402.1; 25-JUN-2010 05:34:24; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;43489  
 11; 523.1; 25-JUN-2010 05:36:25; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;43489  
 12; 701.3; 25-JUN-2010 05:39:23; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;43489  
 13; 1249.8; 25-JUN-2010 05:48:32; Dark ; 44.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 89; 0;43489  
 14; 1333.9; 25-JUN-2010 05:49:56; Dark ; 47.0; 116; 19Del Sgr ; 2.70; 4100;occ; 94; 0;43489  
 15; 1463.0; 25-JUN-2010 05:52:05; Bright; 50.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 100; 0;43489  
 16; 1986.8; 25-JUN-2010 06:00:49; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;43489  
 17; 2129.7; 25-JUN-2010 06:03:12; Bright; 41.0; 59; 55Alp Oph ; 2.08; 8900;occ; 82; 0;43489  
 18; 2699.6; 25-JUN-2010 06:12:42; Bright; 51.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 102; 0;43489  
 19; 2826.0; 25-JUN-2010 06:14:48; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;43489  
 20; 3402.4; 25-JUN-2010 06:24:24; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;43489

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 2; 1336.4; 25-JUN-2010 20:55:22; Dark ; 50.0; 116; 19Del Sgr ; 2.70; 4100;occ; 100; 0;43498  
 3; 1464.9; 25-JUN-2010 20:57:30; Bright; 48.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 97; 0;43498  
 4; 1985.6; 25-JUN-2010 21:06:11; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;43498  
 5; 2128.3; 25-JUN-2010 21:08:34; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;43498  
 6; 2693.7; 25-JUN-2010 21:17:59; Bright; 47.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 94; 0;43498  
 7; 2823.9; 25-JUN-2010 21:20:09; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;43498  
 8; 3396.1; 25-JUN-2010 21:29:42; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;43498  
 9; 3822.3; 25-JUN-2010 21:36:48; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;43498  
 10; 3917.7; 25-JUN-2010 21:38:23; Bright; 49.5; 68; 18Alp Cas ; 2.22; 4500;occ; 99; 0;43498  
 11; 4064.7; 25-JUN-2010 21:40:50; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43498  
 12; 4269.8; 25-JUN-2010 21:44:15; Bright; 47.5; 73; 57Gam1And ; 2.26; 13100;occ; 95; 0;43498  
 13; 4418.5; 25-JUN-2010 21:46:44; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;43498  
 14; 4656.0; 25-JUN-2010 21:50:42; Dark ; 57.5; 50; 13Alp Ari ; 2.01; 4250;occ; 115; 0;43498  
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 5; 706.4; 25-JUN-2010 22:25:28; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;43499  
 6; 1252.6; 25-JUN-2010 22:34:34; Dark ; 44.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 89; 0;43499  
 7; 1336.7; 25-JUN-2010 22:35:58; Dark ; 50.5; 116; 19Del Sgr ; 2.70; 4100;occ; 101; 0;43499  
 8; 1465.3; 25-JUN-2010 22:38:07; Bright; 49.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 99; 0;43499  
 9; 1985.3; 25-JUN-2010 22:46:47; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;43499  
 10; 2128.1; 25-JUN-2010 22:49:10; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;43499  
 11; 2693.2; 25-JUN-2010 22:58:35; Bright; 50.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 100; 0;43499  
 12; 2823.5; 25-JUN-2010 23:00:45; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;43499  
 13; 3395.3; 25-JUN-2010 23:10:17; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;43499  
 14; 3821.7; 25-JUN-2010 23:17:23; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;43499  
 15; 3917.3; 25-JUN-2010 23:18:59; Bright; 49.5; 68; 18Alp Cas ; 2.22; 4500;occ; 99; 0;43499  
 16; 4064.8; 25-JUN-2010 23:21:26; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43499  
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 18; 4418.5; 25-JUN-2010 23:27:20; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;43499  
 19; 4656.0; 25-JUN-2010 23:31:17; Dark ; 52.5; 50; 13Alp Ari ; 2.01; 4250;occ; 105; 0;43499  
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 3; 413.2; 26-JUN-2010 00:01:10; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;43500  
 4; 533.7; 26-JUN-2010 00:03:11; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;43500  
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 6; 1252.6; 26-JUN-2010 00:15:10; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;43500  
 7; 1336.7; 26-JUN-2010 00:16:34; Dark ; 53.0; 116; 19Del Sgr ; 2.70; 4100;occ; 106; 0;43500  
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12; 2823.3; 26-JUN-2010 00:41:21; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;43500
13; 3394.6; 26-JUN-2010 00:50:52; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;43500
14; 3821.2; 26-JUN-2010 00:57:58; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;43500
15; 3916.7; 26-JUN-2010 00:59:34; Bright; 47.0; 68; 18Alp Cas ; 2.22; 4500;occ; 94; 0;43500
16; 4064.7; 26-JUN-2010 01:02:02; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43500
17; 4269.7; 26-JUN-2010 01:05:27; Bright; 61.0; 73; 57Gam1And ; 2.26; 13100;occ; 122; 0;43500
18; 4418.6; 26-JUN-2010 01:07:56; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;43500
19; 4656.4; 26-JUN-2010 01:11:54; Dark ; 58.0; 50; 13Alp Ari ; 2.01; 4250;occ; 116; 0;43500
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3; 534.5; 26-JUN-2010 01:43:48; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;43501
4; 707.7; 26-JUN-2010 01:46:41; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;43501
5; 1253.3; 26-JUN-2010 01:55:46; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;43501
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7; 1465.6; 26-JUN-2010 01:59:19; Bright; 48.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 97; 0;43501
8; 1985.6; 26-JUN-2010 02:07:59; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;43501
9; 2128.0; 26-JUN-2010 02:10:21; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;43501
10; 2692.0; 26-JUN-2010 02:19:45; Bright; 50.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 100; 0;43501
11; 2823.2; 26-JUN-2010 02:21:56; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;43501
12; 3394.0; 26-JUN-2010 02:31:27; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;43501
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3;-1971.2; 26-JUN-2010 02:42:38; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43501
4;-1766.2; 26-JUN-2010 02:46:03; Bright; 47.0; 73; 57Gam1And ; 2.26; 13100;occ; 94; 0;43501
5;-1617.2; 26-JUN-2010 02:48:32; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;43501
6;-1379.4; 26-JUN-2010 02:52:30; Dark ; 52.5; 50; 13Alp Ari ; 2.01; 4250;occ; 105; 0;43501
7;-1086.9; 26-JUN-2010 02:57:22; Dark ; 45.0; 94; 92Alp Cet ; 2.53; 3100;occ; 90; 0;43501
8; -592.6; 26-JUN-2010 03:05:37; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;43501
9; 414.9; 26-JUN-2010 03:22:24; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;43502
10; 535.5; 26-JUN-2010 03:24:25; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;43502
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