

# GOMOS Daily Report 15-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	17JUN2010 04:34:42
Data source version	GOMOS/5.00L04
Start time of products	15JUN2010 00:04:24
Stop time of products	15JUN2010 23:45:04
Store outputs in DB	Yes
Nb of level 1b prods	120
Nb of prods with errors	0

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

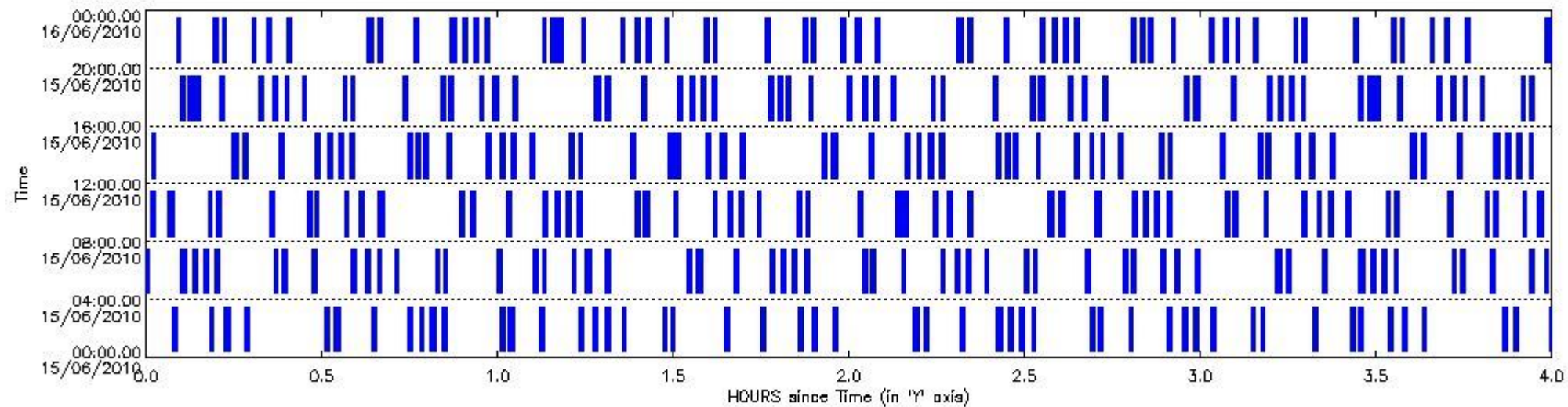
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

No missing products.

### 2.4 Summary of processed GOM\_TRA\_1P products

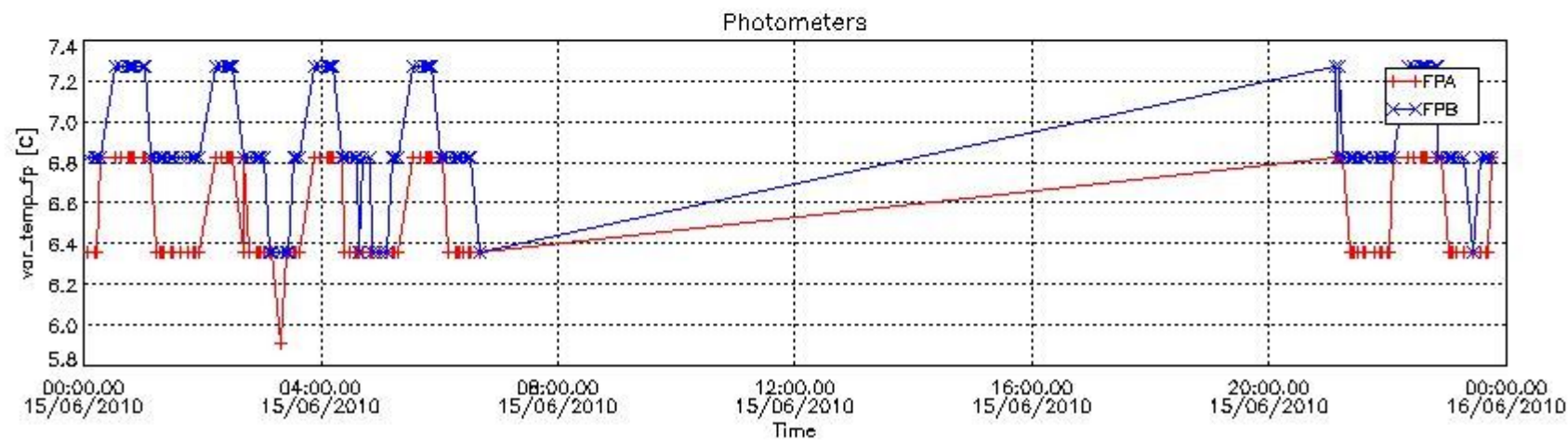
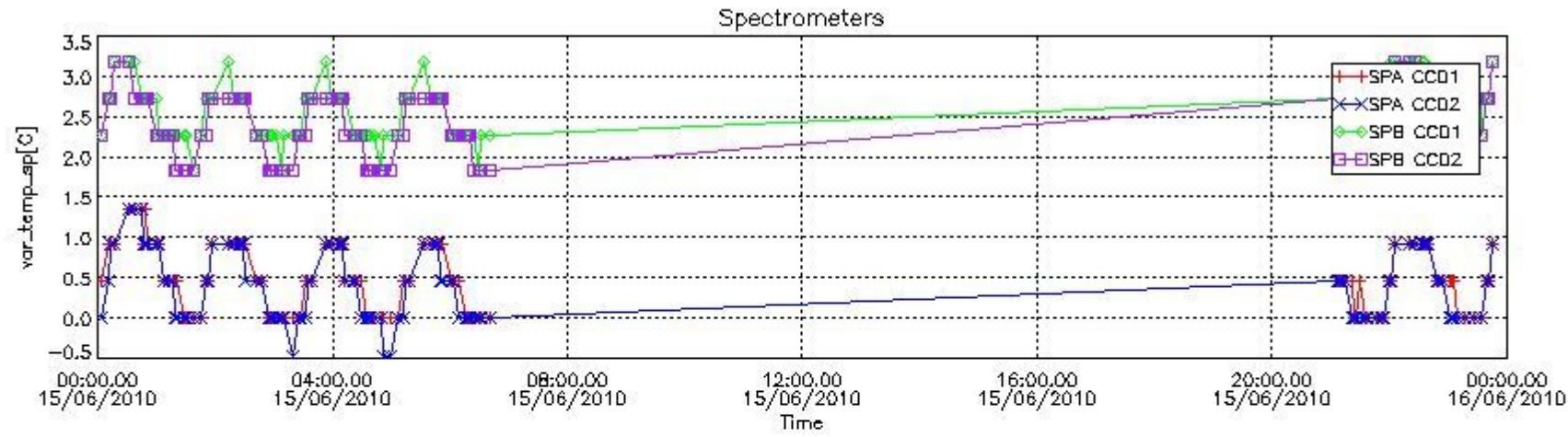
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100615_000424_000000452090_00202_43342_9093.N1	15-JUN-2010 00:04:24	Bright	44.500	74	11Bet Cas	2.2680	6600.0	89	43342	No
2	GOM_TRA_1PNPDE20100615_001050_000000402090_00202_43342_9094.N1	15-JUN-2010 00:10:50	Bright	40.000	73	57Gam1And	2.2600	13100.	80	43342	No
3	GOM_TRA_1PNPDE20100615_001311_000000632090_00202_43342_9095.N1	15-JUN-2010 00:13:11	Twilight	63.000	53	43Bet And	2.0480	3300.0	126	43342	No
4	GOM_TRA_1PNPDE20100615_001638_000000492090_00202_43342_9096.N1	15-JUN-2010 00:16:38	Twilight	49.000	50	13Alp Ari	2.0070	4250.0	98	43342	No
5	GOM_TRA_1PNPDE20100615_003209_000000532090_00202_43342_9099.N1	15-JUN-2010 00:32:09	Dark	52.500	52	16Bet Cet	2.0370	4500.0	105	43342	No
6	GOM_TRA_1PNPDE20100615_003825_000000532090_00202_43342_9100.N1	15-JUN-2010 00:38:25	Dark	52.500	84	Alp Phe	2.3970	4500.0	105	43342	No
7	GOM_TRA_1PNPDE20100615_004435_000000552090_00203_43343_9101.N1	15-JUN-2010 00:44:35	Dark	54.500	63	Bet Gru	2.1500	2800.0	109	43343	No
8	GOM_TRA_1PNPDE20100615_004638_000000482090_00203_43343_9102.N1	15-JUN-2010 00:46:38	Dark	47.500	31	Alp Gru	1.7340	15200.	95	43343	No
9	GOM_TRA_1PNPDE20100615_004828_000000532090_00203_43343_9103.N1	15-JUN-2010 00:48:28	Straylight	53.000	172	Gam Gru	3.0030	13100.	106	43343	No
10	GOM_TRA_1PNPDE20100615_005034_000000442090_00203_43343_9104.N1	15-JUN-2010 00:50:34	Straylight	44.000	45	Alp Pav	1.9400	26000.	88	43343	No
11	GOM_TRA_1PNPDE20100615_010031_000000432090_00203_43343_9105.N1	15-JUN-2010 01:00:31	Twilight	42.500	25	35Lam Sco	1.6200	28000.	85	43343	No
12	GOM_TRA_1PNPDE20100615_010154_000000502090_00203_43343_9106.N1	15-JUN-2010 01:01:54	Twilight	50.000	167	10Gam2Sgr	2.9840	4500.0	100	43343	No

13	GOM_TRA_1PNPDE20100615_010709_000000412090_00203_43343_9107.N1	15-JUN-2010 01:07:09	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	43343	No
14	GOM_TRA_1PNPDE20100615_011348_000000452090_00203_43343_9108.N1	15-JUN-2010 01:13:48	Bright	45.000	126	60Bet Oph	2.7700	4250.0	90	43343	No
15	GOM_TRA_1PNPDE20100615_011620_000000462090_00203_43343_9109.N1	15-JUN-2010 01:16:20	Bright	46.000	59	55Alp Oph	2.0800	8900.0	92	43343	No
16	GOM_TRA_1PNPDE20100615_011815_000000542090_00203_43343_9110.N1	15-JUN-2010 01:18:15	Bright	54.000	127	27Bet Her	2.7810	4700.0	108	43343	No
17	GOM_TRA_1PNPDE20100615_012118_000000392090_00203_43343_9111.N1	15-JUN-2010 01:21:18	Bright	38.500	133	40Zet Her	2.8070	6000.0	77	43343	No
18	GOM_TRA_1PNPDE20100615_012810_000000432090_00203_43343_9112.N1	15-JUN-2010 01:28:10	Bright	42.500	130	23Bet Dra	2.7990	5800.0	85	43343	No
19	GOM_TRA_1PNPDE20100615_012940_000000342090_00203_43343_9113.N1	15-JUN-2010 01:29:40	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	43343	No
20	GOM_TRA_1PNPDE20100615_013839_000000492090_00203_43343_9114.N1	15-JUN-2010 01:38:39	Bright	48.500	89	5Alp Cep	2.4510	8000.0	97	43343	No
21	GOM_TRA_1PNPDE20100615_014500_000000462090_00203_43343_9115.N1	15-JUN-2010 01:45:00	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	43343	No
22	GOM_TRA_1PNPDE20100615_015126_000000412090_00203_43343_9116.N1	15-JUN-2010 01:51:26	Bright	40.500	73	57Gam1And	2.2600	13100.	81	43343	No
23	GOM_TRA_1PNPDE20100615_015347_000000542090_00203_43343_9117.N1	15-JUN-2010 01:53:47	Twilight	53.500	53	43Bet And	2.0480	3300.0	107	43343	No
24	GOM_TRA_1PNPDE20100615_015714_000000492090_00203_43343_9118.N1	15-JUN-2010 01:57:14	Twilight	49.000	50	13Alp Ari	2.0070	4250.0	98	43343	No
25	GOM_TRA_1PNPDE20100615_021245_000000572090_00203_43343_9116.N1	15-JUN-2010 02:12:45	Dark	56.500	52	16Bet Cet	2.0370	4500.0	113	43343	No
26	GOM_TRA_1PNPDE20100615_021902_000000422090_00203_43343_9117.N1	15-JUN-2010 02:19:02	Dark	42.000	84	Alp Phe	2.3970	4500.0	84	43343	No
27	GOM_TRA_1PNPDE20100615_022512_000000522090_00204_43344_9118.N1	15-JUN-2010 02:25:12	Dark	51.500	63	Bet Gru	2.1500	2800.0	103	43344	No
28	GOM_TRA_1PNPDE20100615_022715_000000482090_00204_43344_9119.N1	15-JUN-2010 02:27:15	Dark	48.000	31	Alp Gru	1.7340	15200.	96	43344	No
29	GOM_TRA_1PNPDE20100615_022905_000000522090_00204_43344_9120.N1	15-JUN-2010 02:29:05	Straylight	52.000	172	Gam Gru	3.0030	13100.	104	43344	No
30	GOM_TRA_1PNPDE20100615_023110_000000432090_00204_43344_9121.N1	15-JUN-2010 02:31:10	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	43344	No
31	GOM_TRA_1PNPDE20100615_024107_000000442090_00204_43344_9122.N1	15-JUN-2010 02:41:07	Twilight	44.000	25	35Lam Sco	1.6200	28000.	88	43344	No
32	GOM_TRA_1PNPDE20100615_024230_000000502090_00204_43344_9123.N1	15-JUN-2010 02:42:30	Twilight	49.500	167	10Gam2Sgr	2.9840	4500.0	99	43344	No
33	GOM_TRA_1PNPDE20100615_024745_000000412090_00204_43344_9124.N1	15-JUN-2010 02:47:45	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	43344	No
34	GOM_TRA_1PNPDE20100615_025424_000000452090_00204_43344_9125.N1	15-JUN-2010 02:54:24	Bright	45.000	126	60Bet Oph	2.7700	4250.0	90	43344	No
35	GOM_TRA_1PNPDE20100615_025656_000000432090_00204_43344_9126.N1	15-JUN-2010 02:56:56	Bright	43.000	59	55Alp Oph	2.0800	8900.0	86	43344	No
36	GOM_TRA_1PNPDE20100615_025851_000000402090_00204_43344_9127.N1	15-JUN-2010 02:58:51	Bright	40.000	127	27Bet Her	2.7810	4700.0	80	43344	No
37	GOM_TRA_1PNPDE20100615_030154_000000402090_00204_43344_9128.N1	15-JUN-2010 03:01:54	Bright	39.500	133	40Zet Her	2.8070	6000.0	79	43344	No
38	GOM_TRA_1PNPDE20100615_030846_000000392090_00204_43344_9129.N1	15-JUN-2010 03:08:46	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	43344	No
39	GOM_TRA_1PNPDE20100615_031016_000000362090_00204_43344_9130.N1	15-JUN-2010 03:10:16	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	43344	No
40	GOM_TRA_1PNPDE20100615_031914_000000492090_00204_43344_9131.N1	15-JUN-2010 03:19:14	Bright	48.500	89	5Alp Cep	2.4510	8000.0	97	43344	No
41	GOM_TRA_1PNPDE20100615_032535_000000452090_00204_43344_9146.N1	15-JUN-2010 03:25:35	Bright	45.000	74	11Bet Cas	2.2680	6600.0	90	43344	No
42	GOM_TRA_1PNPDE20100615_032657_000000452090_00204_43344_9147.N1	15-JUN-2010 03:26:57	Bright	44.500	68	18Alp Cas	2.2250	4500.0	89	43344	No
43	GOM_TRA_1PNPDE20100615_033202_000000562090_00204_43344_9148.N1	15-JUN-2010 03:32:02	Bright	56.000	73	57Gam1And	2.2600	13100.	112	43344	No
44	GOM_TRA_1PNPDE20100615_033423_000000582090_00204_43344_9149.N1	15-JUN-2010 03:34:23	Twilight	58.000	53	43Bet And	2.0480	3300.0	116	43344	No
45	GOM_TRA_1PNPDE20100615_033750_000000472090_00204_43344_9150.N1	15-JUN-2010 03:37:50	Twilight	47.000	50	13Alp Ari	2.0070	4250.0	94	43344	No
46	GOM_TRA_1PNPDE20100615_035322_000000572090_00204_43344_9151.N1	15-JUN-2010 03:53:22	Dark	57.000	52	16Bet Cet	2.0370	4500.0	114	43344	No
47	GOM_TRA_1PNPDE20100615_035939_000000472090_00204_43344_9152.N1	15-JUN-2010 03:59:39	Dark	47.000	84	Alp Phe	2.3970	4500.0	94	43344	No
48	GOM_TRA_1PNPDE20100615_040549_000000592090_00205_43345_9153.N1	15-JUN-2010 04:05:49	Dark	59.000	63	Bet Gru	2.1500	2800.0	118	43345	No
49	GOM_TRA_1PNPDE20100615_040752_000000492090_00205_43345_9154.N1	15-JUN-2010 04:07:52	Dark	48.500	31	Alp Gru	1.7340	15200.	97	43345	No
50	GOM_TRA_1PNPDE20100615_040942_000000522090_00205_43345_9155.N1	15-JUN-2010 04:09:42	Straylight	52.000	172	Gam Gru	3.0030	13100.	104	43345	No
51	GOM_TRA_1PNPDE20100615_041147_000000432090_00205_43345_9156.N1	15-JUN-2010 04:11:47	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	43345	No
52	GOM_TRA_1PNPDE20100615_042143_000000432090_00205_43345_9157.N1	15-JUN-2010 04:21:43	Twilight	42.500	25	35Lam Sco	1.6200	28000.	85	43345	No
53	GOM_TRA_1PNPDE20100615_042306_000000482090_00205_43345_9158.N1	15-JUN-2010 04:23:06	Twilight	47.500	167	10Gam2Sgr	2.9840	4500.0	95	43345	No
54	GOM_TRA_1PNPDE20100615_042821_000000402090_00205_43345_9159.N1	15-JUN-2010 04:28:21	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	43345	No
55	GOM_TRA_1PNPDE20100615_043459_000000442090_00205_43345_9160.N1	15-JUN-2010 04:34:59	Bright	44.000	126	60Bet Oph	2.7700	4250.0	88	43345	No
56	GOM_TRA_1PNPDE20100615_043731_000000452090_00205_43345_9161.N1	15-JUN-2010 04:37:31	Bright	44.500	59	55Alp Oph	2.0800	8900.0	89	43345	No
57	GOM_TRA_1PNPDE20100615_043927_000000382090_00205_43345_9162.N1	15-JUN-2010 04:39:27	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	43345	No
58	GOM_TRA_1PNPDE20100615_044230_000000382090_00205_43345_9163.N1	15-JUN-2010 04:42:30	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	43345	No
59	GOM_TRA_1PNPDE20100615_044922_000000402090_00205_43345_9164.N1	15-JUN-2010 04:49:22	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	43345	No
60	GOM_TRA_1PNPDE20100615_045052_000000362090_00205_43345_9165.N1	15-JUN-2010 04:50:52	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	43345	No
61	GOM_TRA_1PNPDE20100615_045950_000000482090_00205_43345_9166.N1	15-JUN-2010 04:59:50	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	43345	No
62	GOM_TRA_1PNPDE20100615_050611_000000462090_00205_43345_9170.N1	15-JUN-2010 05:06:11	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	43345	No
63	GOM_TRA_1PNPDE20100615_050733_000000472090_00205_43345_9171.N1	15-JUN-2010 05:07:33	Bright	46.500	68	18Alp Cas	2.2250	4500.0	93	43345	No
64	GOM_TRA_1PNPDE20100615_051238_000000412090_00205_43345_9172.N1	15-JUN-2010 05:12:38	Bright	41.000	73	57Gam1And	2.2600	13100.	82	43345	No
65	GOM_TRA_1PNPDE20100615_051459_000000622090_00205_43345_9173.N1	15-JUN-2010 05:14:59	Twilight	62.000	53	43Bet And	2.0480	3300.0	124	43345	No
66	GOM_TRA_1PNPDE20100615_051827_000000482090_00205_43345_9174.N1	15-JUN-2010 05:18:27	Twilight	47.500	50	13Alp Ari	2.0070	4250.0	95	43345	No
67	GOM_TRA_1PNPDE20100615_053359_000000572090_00205_43345_9175.N1	15-JUN-2010 05:33:59	Dark	56.500	52	16Bet Cet	2.0370	4500.0	113	43345	No
68	GOM_TRA_1PNPDE20100615_054015_000000562090_00205_43345_9176.N1	15-JUN-2010 05:40:15	Dark	56.000	84	Alp Phe	2.3970	4500.0	112	43345	No
69	GOM_TRA_1PNPDE20100615_054626_000000572090_00206_43346_9177.N1	15-JUN-2010 05:46:26	Dark	56.500	63	Bet Gru	2.1500	2800.0	113	43346	No
70	GOM_TRA_1PNPDE20100615_054829_000000482090_00206_43346_9178.N1	15-JUN-2010 05:48:29	Dark	48.000	31	Alp Gru	1.7340	15200.	96	43346	No
71	GOM_TRA_1PNPDE20100615_055020_000000512090_00206_43346_9179.N1	15-JUN-2010 05:50:20	Straylight	51.000	172	Gam Gru	3.0030	13100.	102	43346	No

72	GOM_TRA_1PNPDE20100615_055224_000000432090_00206_43346_9180.N1	15-JUN-2010 05:52:24	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	43346	No
73	GOM_TRA_1PNPDE20100615_060220_000000452090_00206_43346_9181.N1	15-JUN-2010 06:02:20	Twilight	45.000	25	35Lam Sco	1.6200	28000.	90	43346	No
74	GOM_TRA_1PNPDE20100615_060343_000000472090_00206_43346_9182.N1	15-JUN-2010 06:03:43	Twilight	47.000	167	10Gam2Sgr	2.9840	4500.0	94	43346	No
75	GOM_TRA_1PNPDE20100615_060857_000000402090_00206_43346_9183.N1	15-JUN-2010 06:08:57	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	43346	No
76	GOM_TRA_1PNPDE20100615_061535_000000472090_00206_43346_9184.N1	15-JUN-2010 06:15:35	Bright	46.500	126	60Bet Oph	2.7700	4250.0	93	43346	No
77	GOM_TRA_1PNPDE20100615_061807_000000452090_00206_43346_9185.N1	15-JUN-2010 06:18:07	Bright	45.000	59	55Alp Oph	2.0800	8900.0	90	43346	No
78	GOM_TRA_1PNPDE20100615_062003_000000382090_00206_43346_9186.N1	15-JUN-2010 06:20:03	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	43346	No
79	GOM_TRA_1PNPDE20100615_062306_000000402090_00206_43346_9187.N1	15-JUN-2010 06:23:06	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	43346	No
80	GOM_TRA_1PNPDE20100615_062957_000000402090_00206_43346_9188.N1	15-JUN-2010 06:29:57	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	43346	No
81	GOM_TRA_1PNPDE20100615_063127_000000372090_00206_43346_9189.N1	15-JUN-2010 06:31:27	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	43346	No
82	GOM_TRA_1PNPDE20100615_064025_000000482090_00206_43346_9190.N1	15-JUN-2010 06:40:25	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	43346	No
83	GOM_TRA_1PNPDE20100615_210733_000000482090_00215_43355_9315.N1	15-JUN-2010 21:07:33	Twilight	47.500	38	20Eps Sgr	1.8360	11000.	95	43355	No
84	GOM_TRA_1PNPDE20100615_210902_000000562090_00215_43355_9316.N1	15-JUN-2010 21:09:02	Twilight	55.500	116	19Del Sgr	2.7000	4100.0	111	43355	No
85	GOM_TRA_1PNPDE20100615_211022_000000492090_00215_43355_9317.N1	15-JUN-2010 21:10:22	Bright	48.500	137	22Lam Sgr	2.8240	4400.0	97	43355	No
86	GOM_TRA_1PNPDE20100615_211421_000000402090_00215_43355_9318.N1	15-JUN-2010 21:14:21	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	43355	No
87	GOM_TRA_1PNPDE20100615_212056_000000442090_00215_43355_9319.N1	15-JUN-2010 21:20:56	Bright	43.500	126	60Bet Oph	2.7700	4250.0	87	43355	No
88	GOM_TRA_1PNPDE20100615_212328_000000442090_00215_43355_9320.N1	15-JUN-2010 21:23:28	Bright	44.000	59	55Alp Oph	2.0800	8900.0	88	43355	No
89	GOM_TRA_1PNPDE20100615_212525_000000372090_00215_43355_9321.N1	15-JUN-2010 21:25:25	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	43355	No
90	GOM_TRA_1PNPDE20100615_212828_000000372090_00215_43355_9322.N1	15-JUN-2010 21:28:28	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	43355	No
91	GOM_TRA_1PNPDE20100615_213517_000000422090_00215_43355_9323.N1	15-JUN-2010 21:35:17	Bright	42.000	130	23Bet Dra	2.7990	5800.0	84	43355	No
92	GOM_TRA_1PNPDE20100615_213650_000000382090_00215_43355_9324.N1	15-JUN-2010 21:36:50	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	43355	No
93	GOM_TRA_1PNPDE20100615_214542_000000482090_00215_43355_9325.N1	15-JUN-2010 21:45:42	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	43355	No
94	GOM_TRA_1PNPDE20100615_215207_000000452090_00215_43355_9326.N1	15-JUN-2010 21:52:07	Bright	44.500	74	11Bet Cas	2.2680	6600.0	89	43355	No
95	GOM_TRA_1PNPDE20100615_215330_000000472090_00215_43355_9327.N1	15-JUN-2010 21:53:30	Bright	47.000	68	18Alp Cas	2.2250	4500.0	94	43355	No
96	GOM_TRA_1PNPDE20100615_215837_000000532090_00215_43355_9328.N1	15-JUN-2010 21:58:37	Bright	52.500	73	57Gam1And	2.2600	13100.	105	43355	No
97	GOM_TRA_1PNPDE20100615_220059_000000642090_00215_43355_9329.N1	15-JUN-2010 22:00:59	Twilight	64.000	53	43Bet And	2.0480	3300.0	128	43355	No
98	GOM_TRA_1PNPDE20100615_220428_000000522090_00215_43355_9330.N1	15-JUN-2010 22:04:28	Twilight	52.000	50	13Alp Ari	2.0070	4250.0	104	43355	No
99	GOM_TRA_1PNPDE20100615_222009_000000562090_00215_43355_9332.N1	15-JUN-2010 22:20:09	Dark	55.500	52	16Bet Cet	2.0370	4500.0	111	43355	No
100	GOM_TRA_1PNPDE20100615_222622_000000532090_00215_43355_9333.N1	15-JUN-2010 22:26:22	Dark	52.500	84	Alp Phe	2.3970	4500.0	105	43355	No
101	GOM_TRA_1PNPDE20100615_223235_000000482090_00216_43356_9334.N1	15-JUN-2010 22:32:35	Dark	48.000	63	Bet Gru	2.1500	2800.0	96	43356	No
102	GOM_TRA_1PNPDE20100615_223438_000000502090_00216_43356_9335.N1	15-JUN-2010 22:34:38	Dark	50.000	31	Alp Gru	1.7340	15200.	100	43356	No
103	GOM_TRA_1PNPDE20100615_223633_000000472090_00216_43356_9336.N1	15-JUN-2010 22:36:33	Straylight	47.000	172	Gam Gru	3.0030	13100.	94	43356	No
104	GOM_TRA_1PNPDE20100615_223829_000000422090_00216_43356_9337.N1	15-JUN-2010 22:38:29	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	43356	No
105	GOM_TRA_1PNPDE20100615_224809_000000482090_00216_43356_9338.N1	15-JUN-2010 22:48:09	Twilight	48.000	38	20Eps Sgr	1.8360	11000.	96	43356	No
106	GOM_TRA_1PNPDE20100615_224938_000000502090_00216_43356_9339.N1	15-JUN-2010 22:49:38	Twilight	50.000	116	19Del Sgr	2.7000	4100.0	100	43356	No
107	GOM_TRA_1PNPDE20100615_225058_000000532090_00216_43356_9340.N1	15-JUN-2010 22:50:58	Bright	53.000	137	22Lam Sgr	2.8240	4400.0	106	43356	No
108	GOM_TRA_1PNPDE20100615_225457_000000412090_00216_43356_9341.N1	15-JUN-2010 22:54:57	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	43356	No
109	GOM_TRA_1PNPDE20100615_230132_000000432090_00216_43356_9342.N1	15-JUN-2010 23:01:32	Bright	43.000	126	60Bet Oph	2.7700	4250.0	86	43356	No
110	GOM_TRA_1PNPDE20100615_230403_000000442090_00216_43356_9343.N1	15-JUN-2010 23:04:03	Bright	43.500	59	55Alp Oph	2.0800	8900.0	87	43356	No
111	GOM_TRA_1PNPDE20100615_230601_000000382090_00216_43356_9344.N1	15-JUN-2010 23:06:01	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	43356	No
112	GOM_TRA_1PNPDE20100615_230903_000000392090_00216_43356_9345.N1	15-JUN-2010 23:09:03	Bright	38.500	133	40Zet Her	2.8070	6000.0	77	43356	No
113	GOM_TRA_1PNPDE20100615_231552_000000412090_00216_43356_9346.N1	15-JUN-2010 23:15:52	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	43356	No
114	GOM_TRA_1PNPDE20100615_231725_000000392090_00216_43356_9347.N1	15-JUN-2010 23:17:25	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	43356	No
115	GOM_TRA_1PNPDE20100615_232617_000000472090_00216_43356_9348.N1	15-JUN-2010 23:26:17	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	43356	No
116	GOM_TRA_1PNPDE20100615_233242_000000452090_00216_43356_9349.N1	15-JUN-2010 23:32:42	Bright	45.000	74	11Bet Cas	2.2680	6600.0	90	43356	No
117	GOM_TRA_1PNPDE20100615_233405_000000452090_00216_43356_9350.N1	15-JUN-2010 23:34:05	Bright	45.000	68	18Alp Cas	2.2250	4500.0	90	43356	No
118	GOM_TRA_1PNPDE20100615_233913_000000412090_00216_43356_9351.N1	15-JUN-2010 23:39:13	Bright	41.000	73	57Gam1And	2.2600	13100.	82	43356	No
119	GOM_TRA_1PNPDE20100615_234135_000000542090_00216_43356_9352.N1	15-JUN-2010 23:41:35	Twilight	54.000	53	43Bet And	2.0480	3300.0	108	43356	No
120	GOM_TRA_1PNPDE20100615_234504_000000482090_00216_43356_9353.N1	15-JUN-2010 23:45:04	Twilight	47.500	50	13Alp Ari	2.0070	4250.0	95	43356	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).

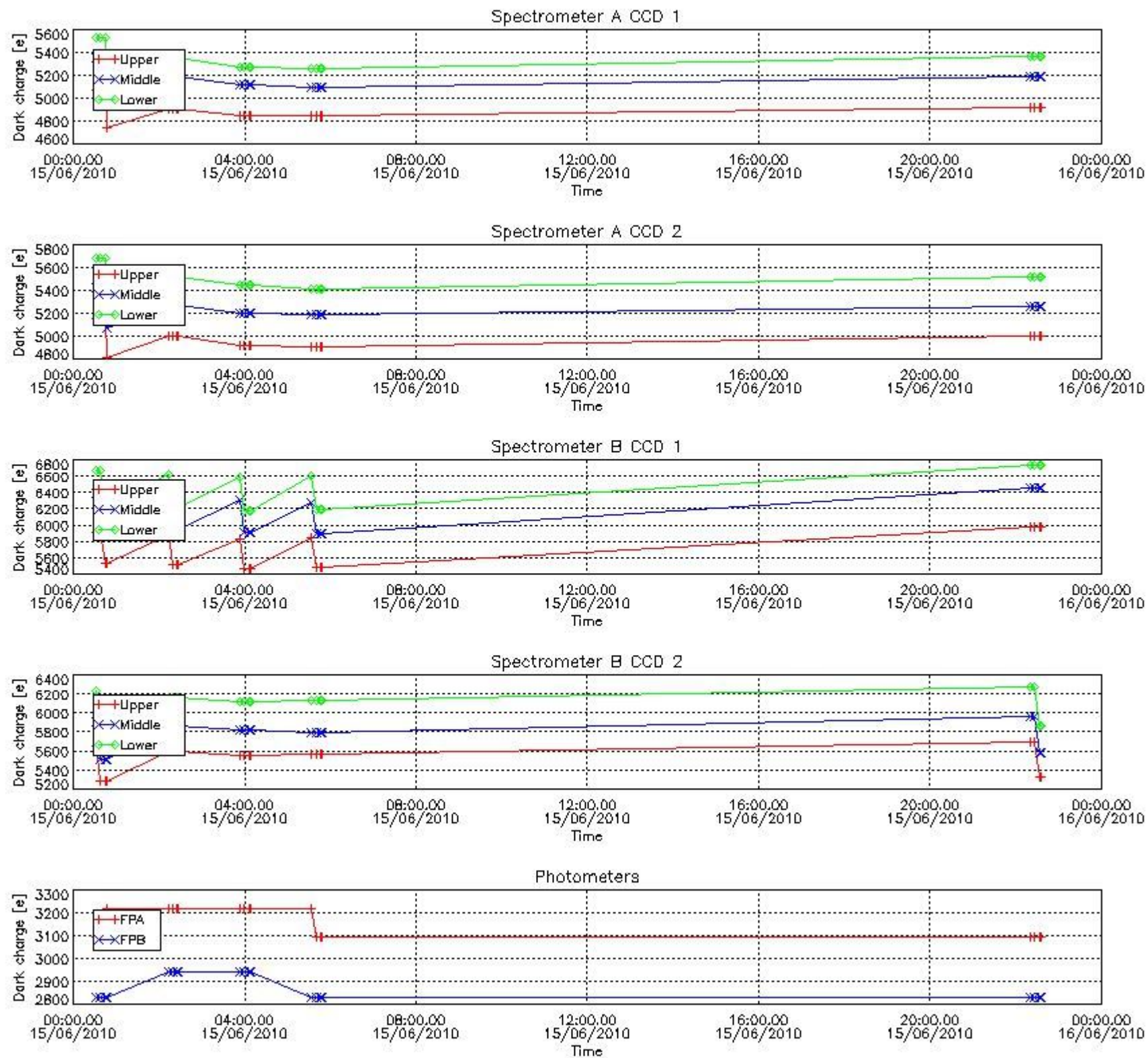
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20100615_210733_000000482090_00215_43355_9315.N1	DC map used
GOM_TRA_1PNPDE20100615_210902_000000562090_00215_43355_9316.N1	DC map used
GOM_TRA_1PNPDE20100615_211022_000000492090_00215_43355_9317.N1	DC map used
GOM_TRA_1PNPDE20100615_211421_000000402090_00215_43355_9318.N1	DC map used
GOM_TRA_1PNPDE20100615_212056_000000442090_00215_43355_9319.N1	DC map used
GOM_TRA_1PNPDE20100615_212328_000000442090_00215_43355_9320.N1	DC map used
GOM_TRA_1PNPDE20100615_212525_000000372090_00215_43355_9321.N1	DC map used
GOM_TRA_1PNPDE20100615_212828_000000372090_00215_43355_9322.N1	DC map used
GOM_TRA_1PNPDE20100615_213517_000000422090_00215_43355_9323.N1	DC map used
GOM_TRA_1PNPDE20100615_213650_000000382090_00215_43355_9324.N1	DC map used
GOM_TRA_1PNPDE20100615_214542_000000482090_00215_43355_9325.N1	DC map used
GOM_TRA_1PNPDE20100615_215207_000000452090_00215_43355_9326.N1	DC map used
GOM_TRA_1PNPDE20100615_215330_000000472090_00215_43355_9327.N1	DC map used
GOM_TRA_1PNPDE20100615_215837_000000532090_00215_43355_9328.N1	DC map used

GOM_TRA_1PNPDE20100615_220059_000000642090_00215_43355_9329.N1	DC map used
GOM_TRA_1PNPDE20100615_220428_000000522090_00215_43355_9330.N1	DC map used

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



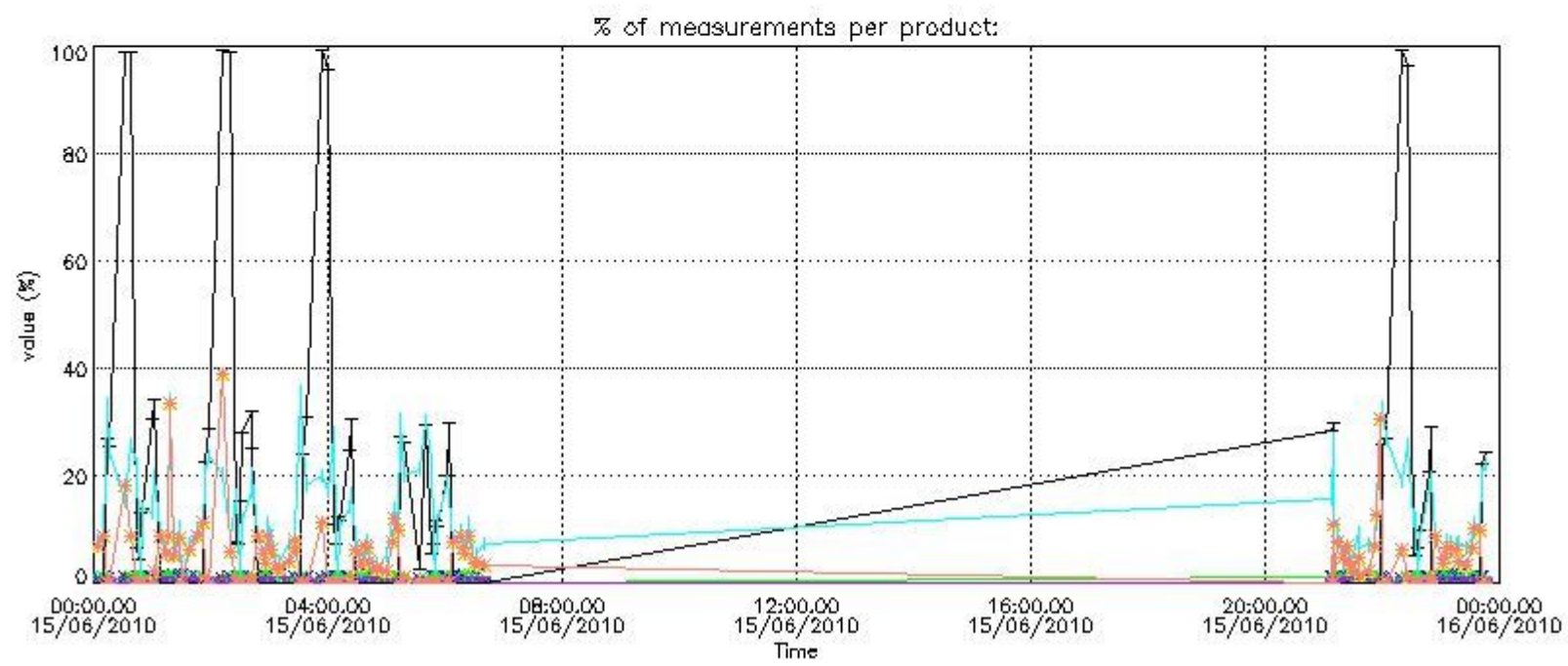
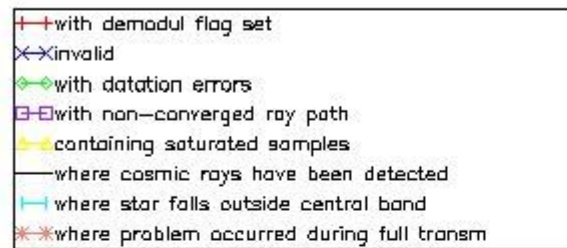
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

5.1 Percentage of products during reporting period with:

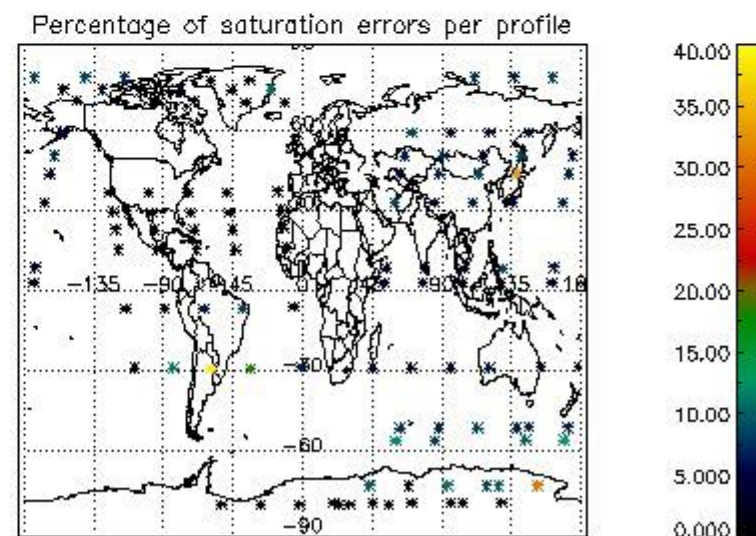
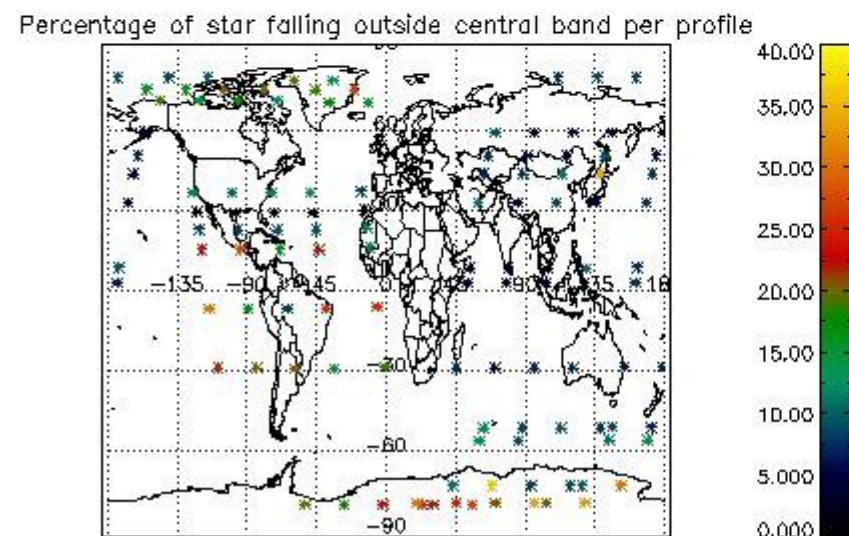
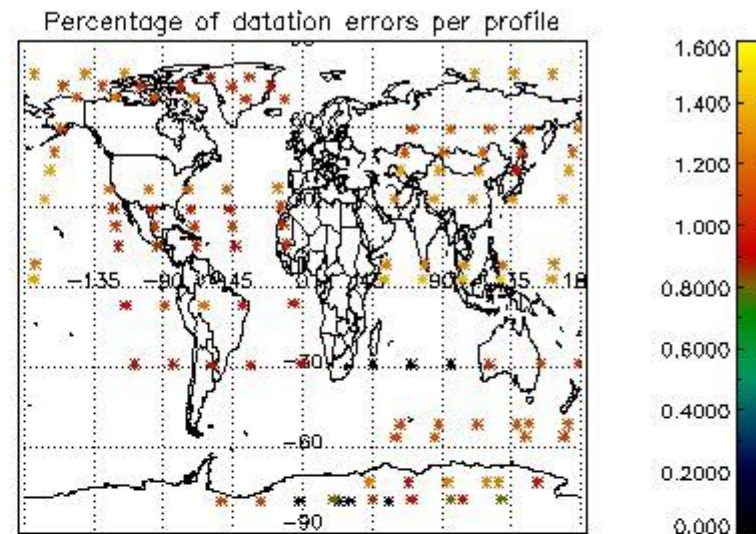
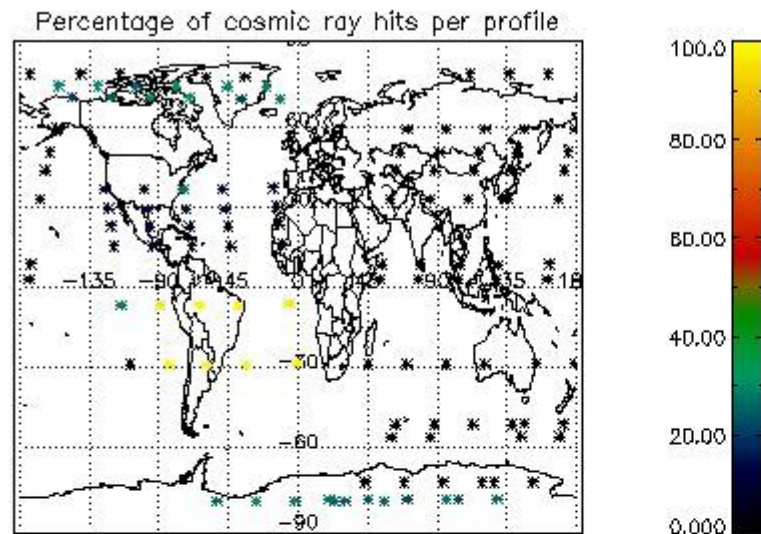
At least one measurement with demodulation flag set:	42.5000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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)

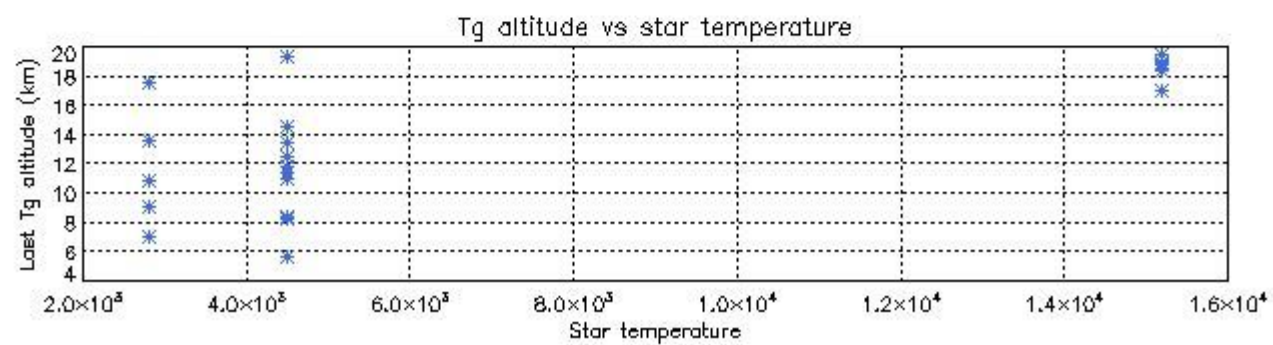
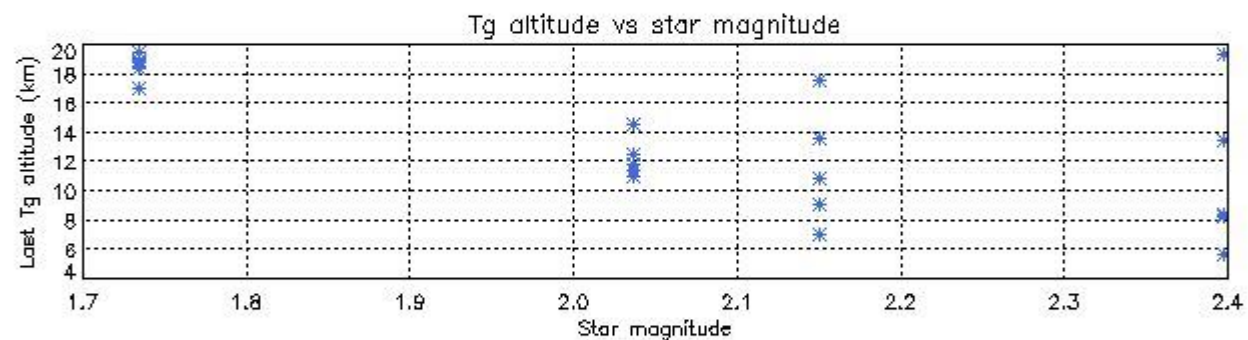
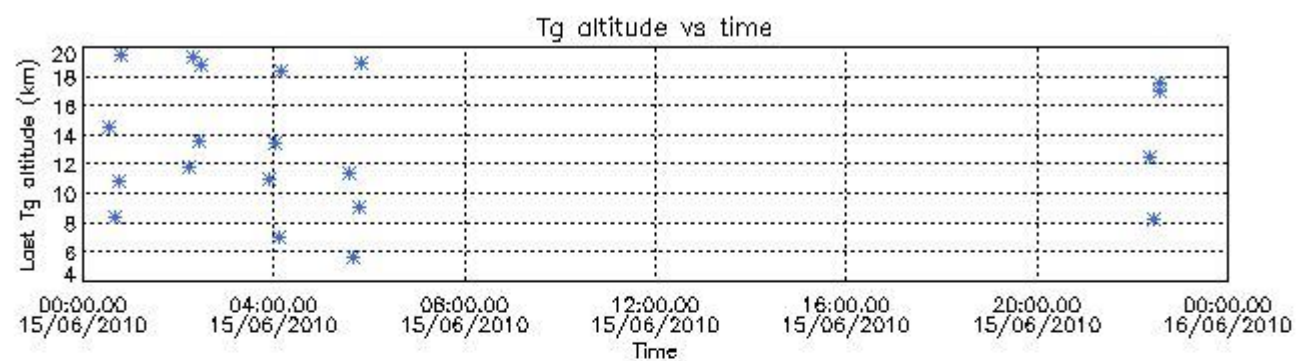
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.335	19.318	10.218
St. deviation:	4.4708	3.8945	1.1244
Maximum:	19.517	28.474	11.349
Minimum:	5.6120	4.2045	8.1635
Number of data:	20.000	66.000	6.0000

### 6.2 Plot for DARK limb products

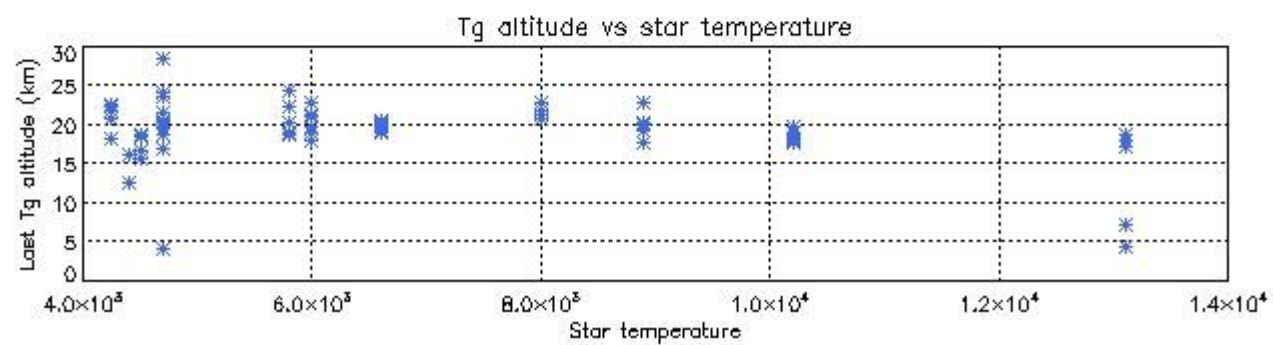
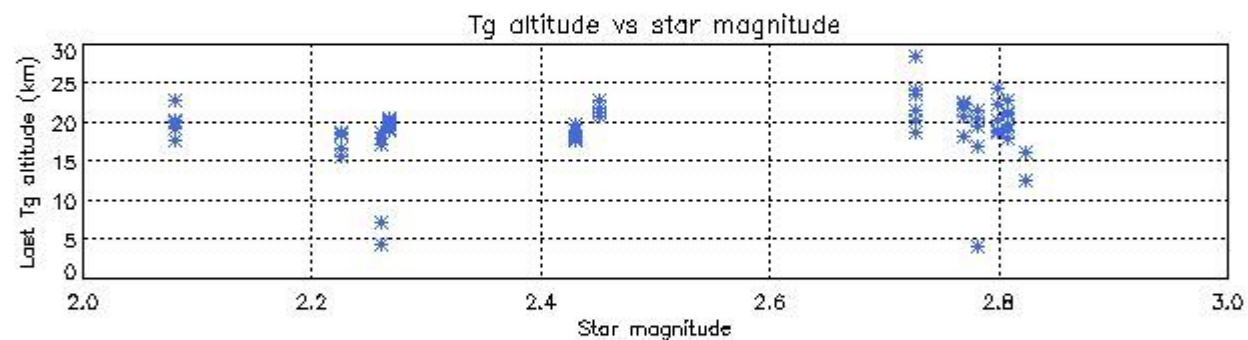
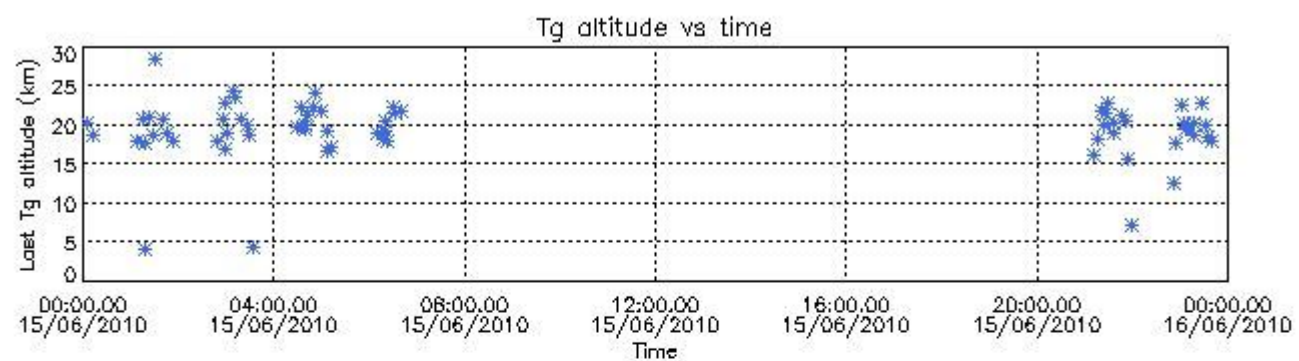


Tangent altitude at which the star is lost



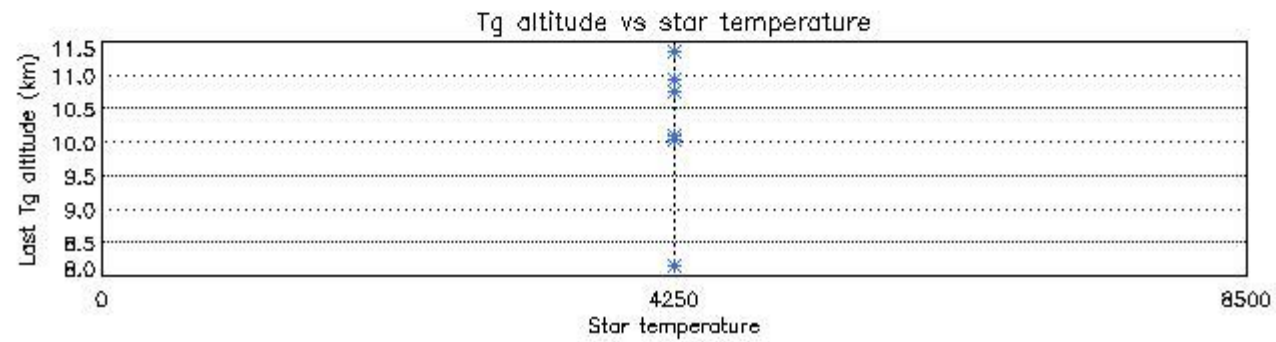
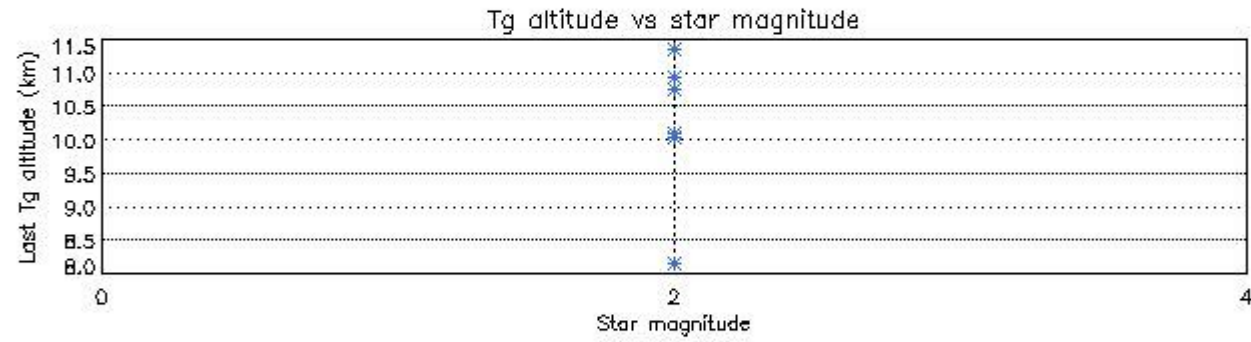
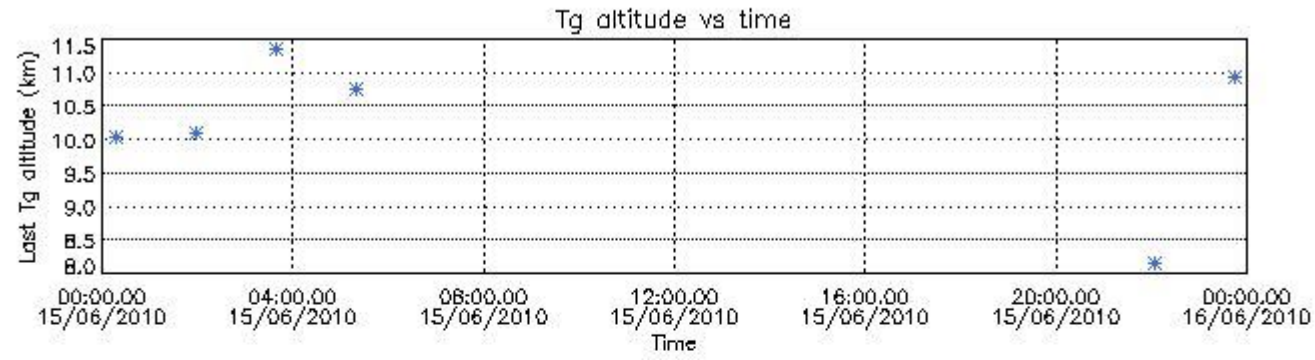
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost



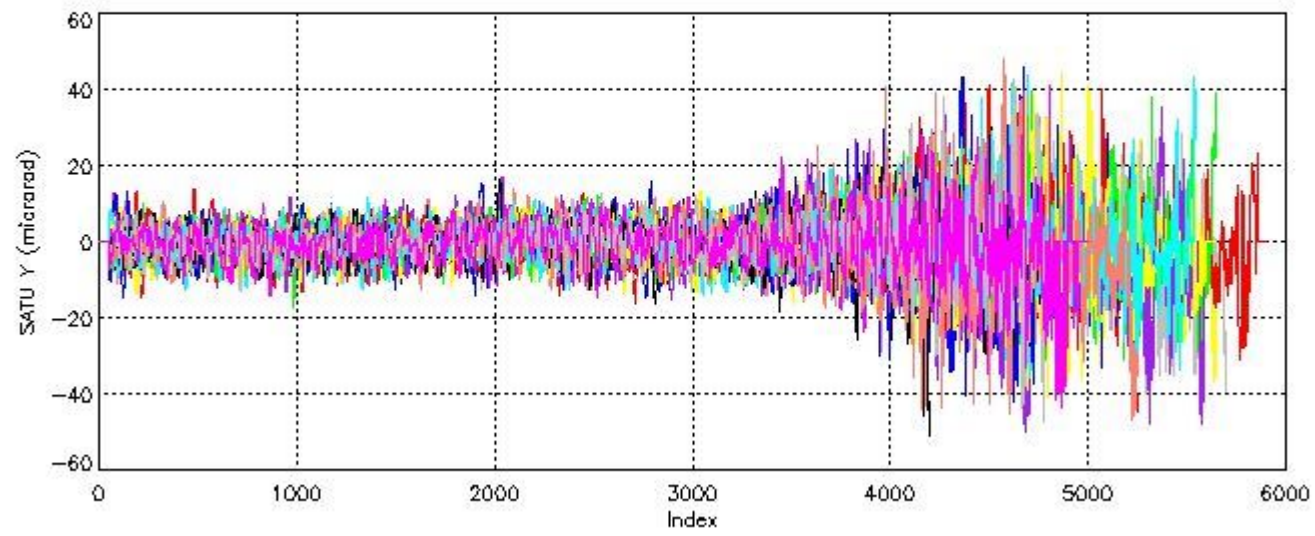
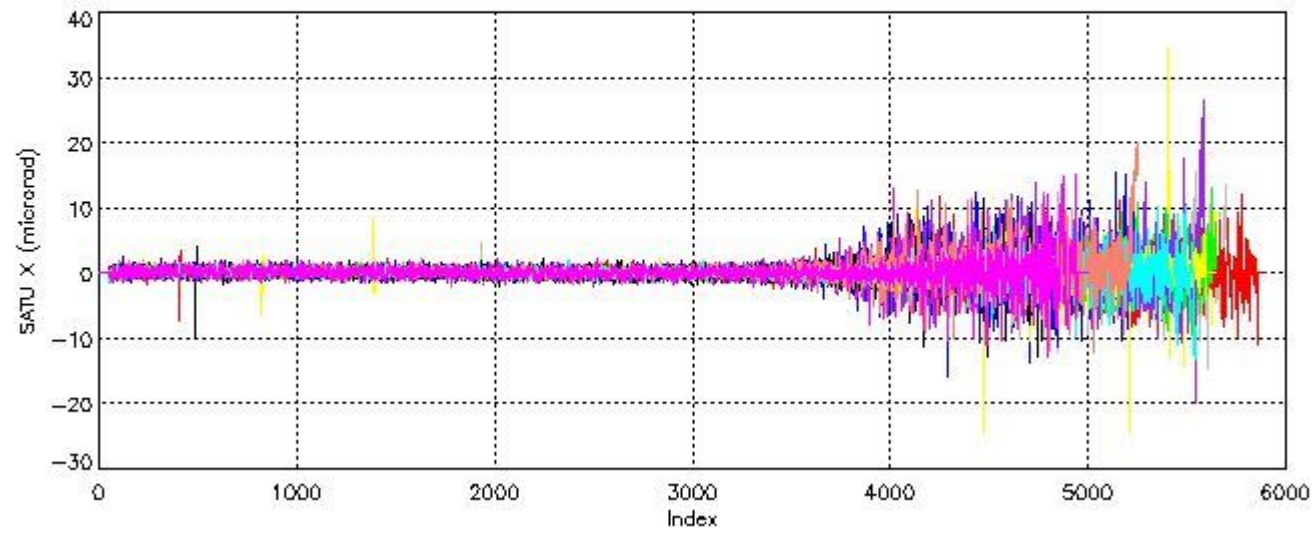
## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.23621	-0.73248	0.22165	-0.70681
St. deviation:	0.40794	3.7965	0.74594	3.5123
Maximum:	4.0000	13.700	4.0000	13.900
Minimum:	-10.100	-17.600	-3.4000	-15.800

Number of data:	21850.	21850.	65950.	65950.
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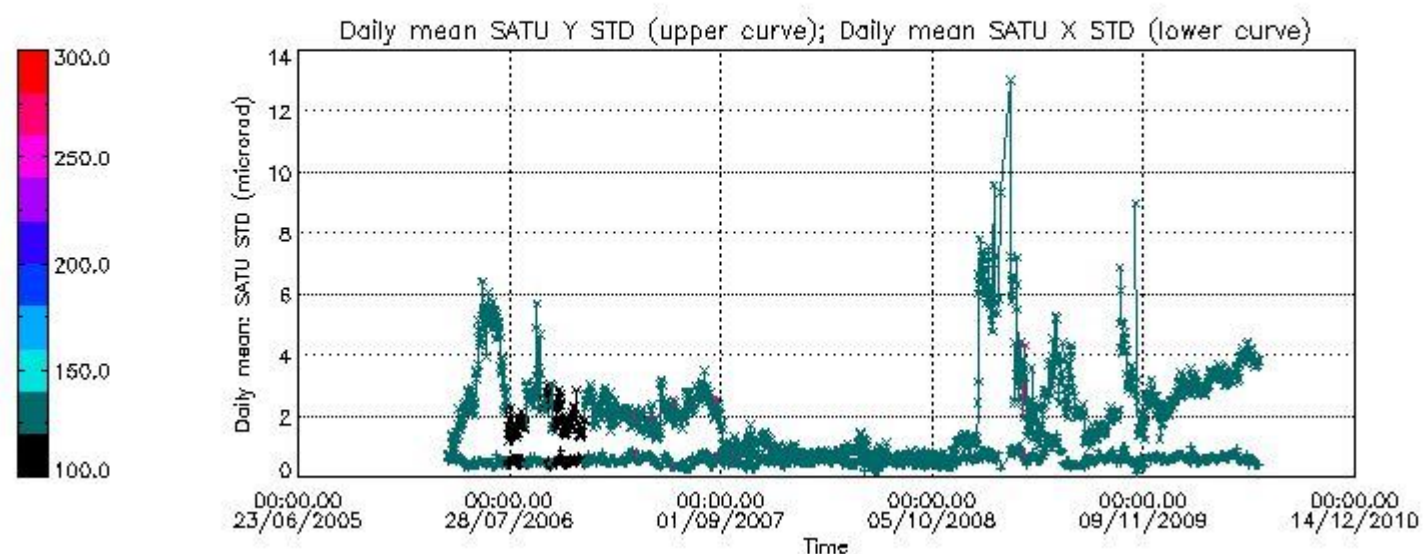
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

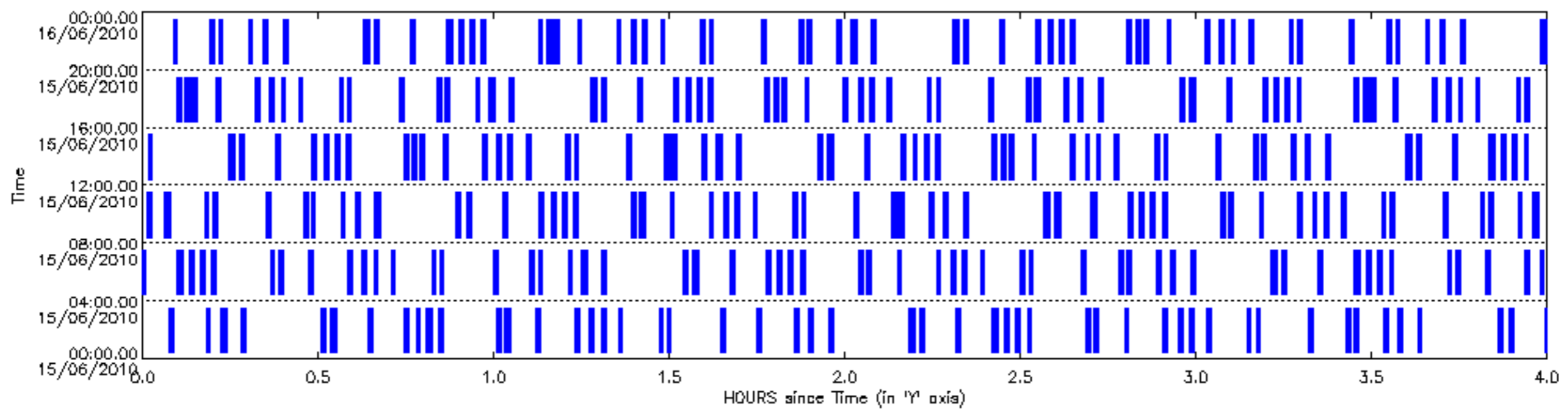
Lower curve: STD of SATU X axis



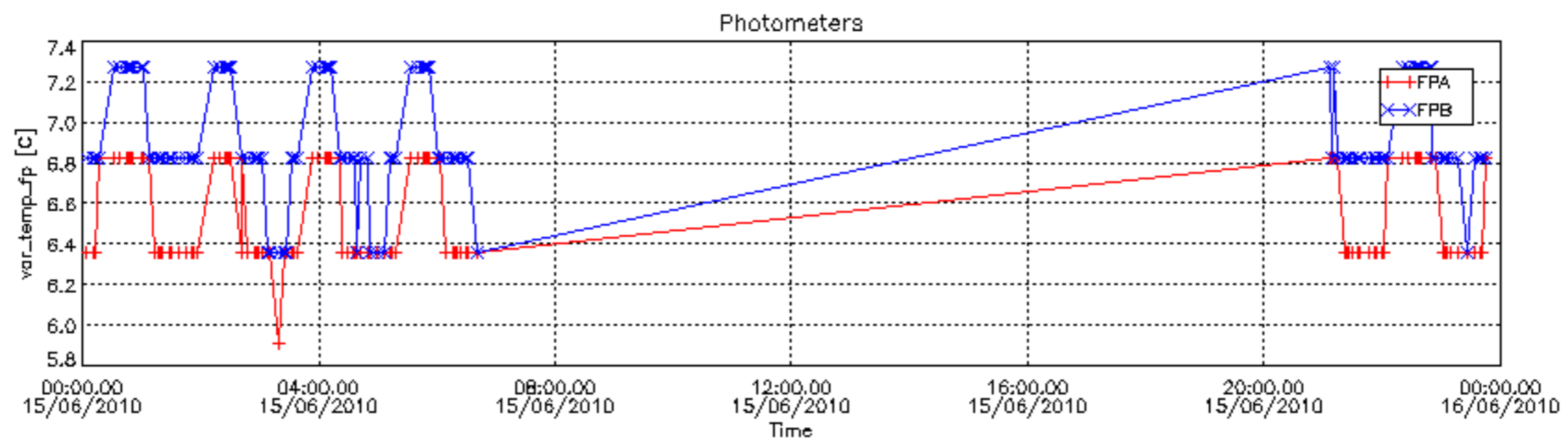
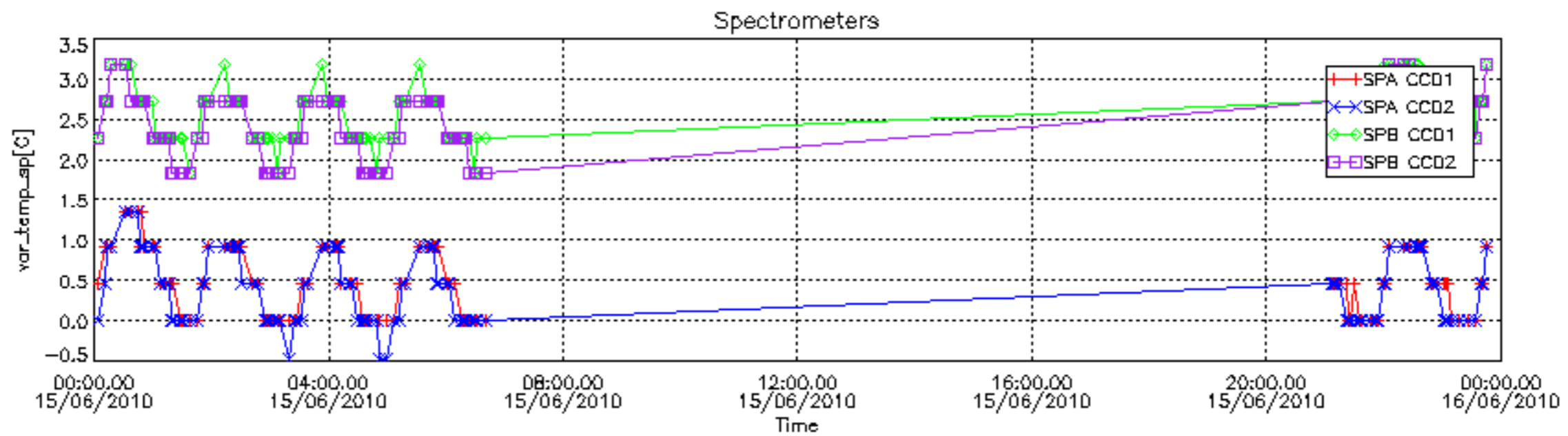
### 8. Auxiliary Data Files used for the production reported in section 2.4

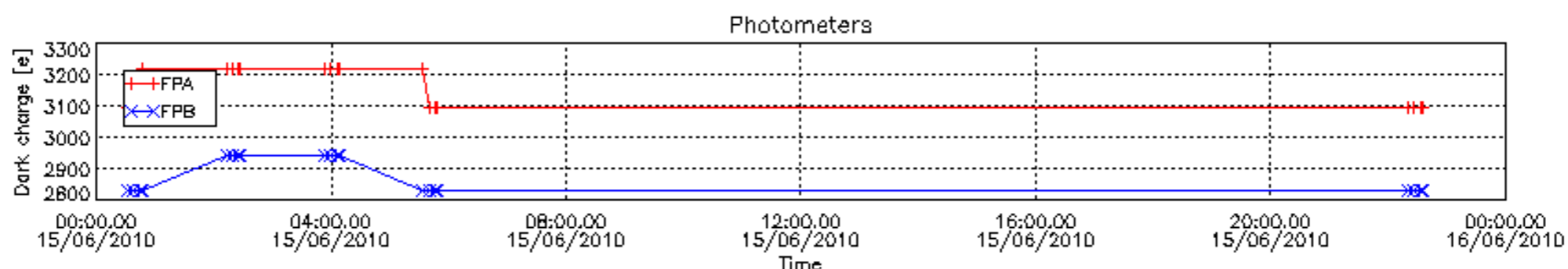
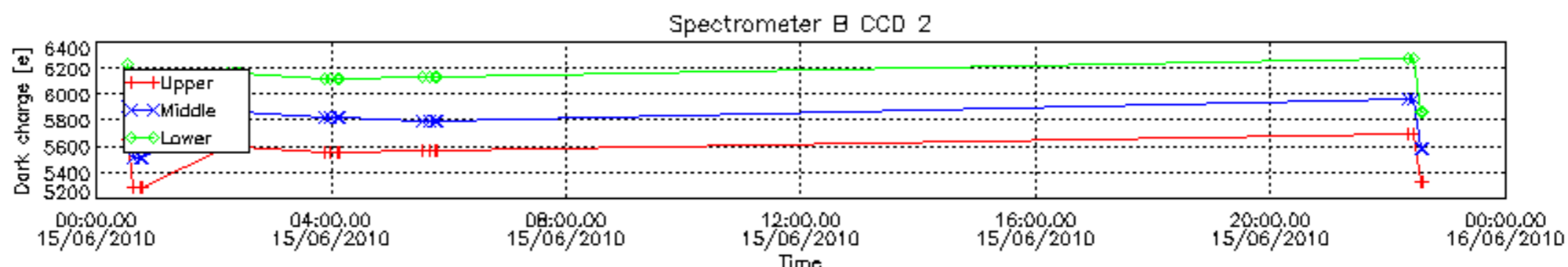
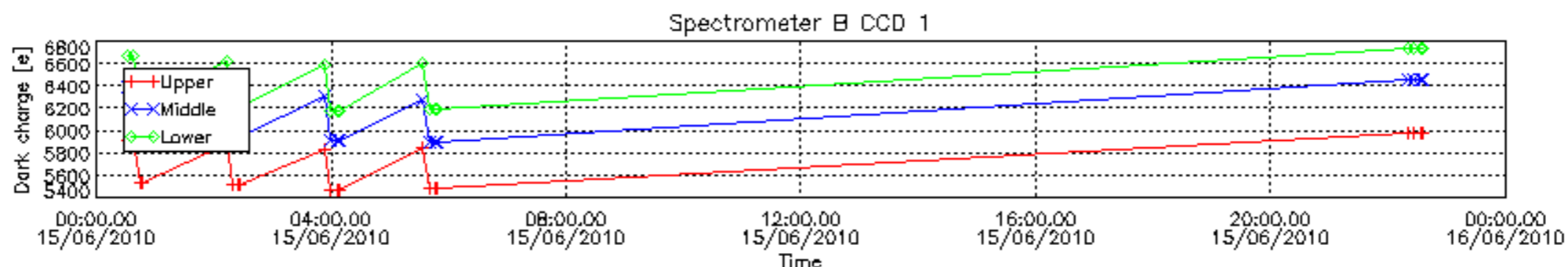
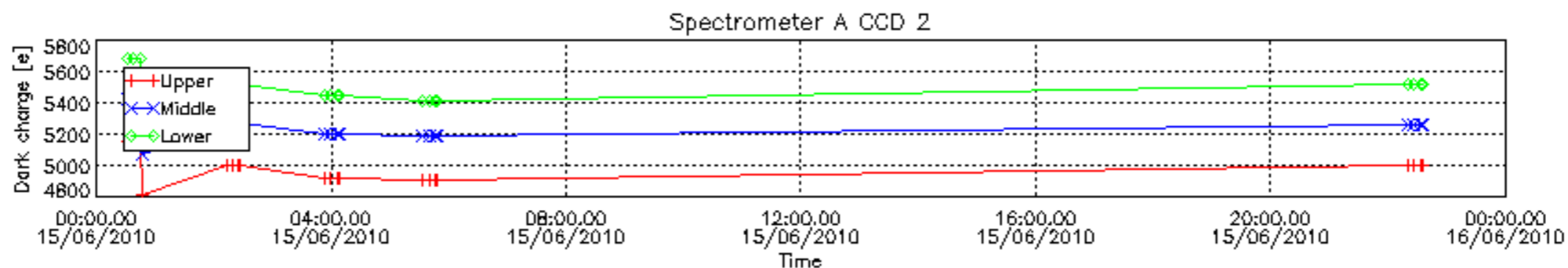
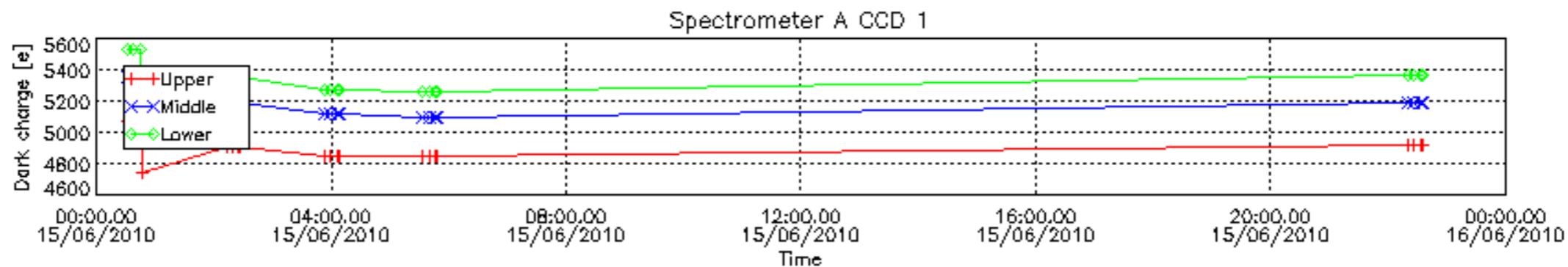
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

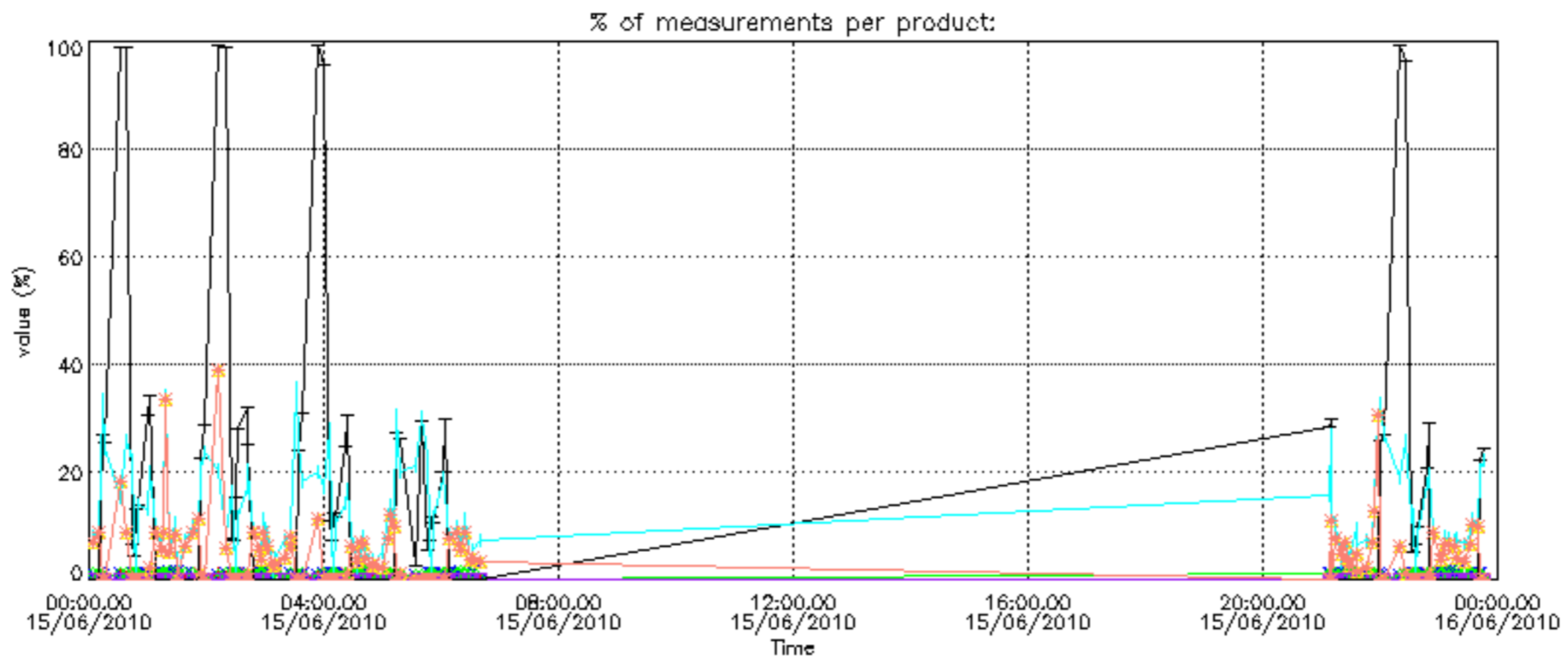
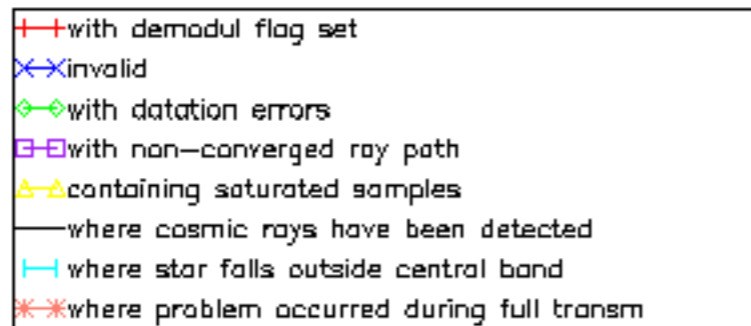
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	15-JUN-2010 00:04:24
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100609_081029_20100607_000000_20500101_000000	1	15-JUN-2010 00:04:24
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100615_083814_20100613_000000_20500101_000000	83	15-JUN-2010 21:07:33
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	15-JUN-2010 00:04:24
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-JUN-2010 00:04:24
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	15-JUN-2010 00:04:24
ECMWF_FILE	AUX_ECF_AXNECM20100614_054447_20100614_210000_20100615_090000	1	15-JUN-2010 00:04:24
ECMWF_FILE	AUX_ECF_AXNECM20100614_172449_20100615_030000_20100615_150000	41	15-JUN-2010 03:25:35
ECMWF_FILE	AUX_ECA_AXNECM20100615_052114_20100614_210000_20100615_090000	62	15-JUN-2010 05:06:11
ECMWF_FILE	AUX_ECF_AXNECM20100615_054113_20100615_210000_20100616_090000	83	15-JUN-2010 21:07:33
OPTIONAL_ECMWF_FILE	MISSING	1	15-JUN-2010 00:04:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100614_224626_000057382090_00201_43341_0553.N1	1	15-JUN-2010 00:04:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100615_002723_000054192090_00202_43342_0554.N1	5	15-JUN-2010 00:32:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100615_020301_000041442090_00203_43343_0555.N1	25	15-JUN-2010 02:12:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100615_031724_000057382090_00204_43344_0556.N1	41	15-JUN-2010 03:25:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100615_045821_000057382090_00205_43345_0557.N1	62	15-JUN-2010 05:06:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100615_210002_000041442090_00215_43355_0558.N1	83	15-JUN-2010 21:07:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100615_221425_000057382090_00215_43355_0559.N1	99	15-JUN-2010 22:20:09





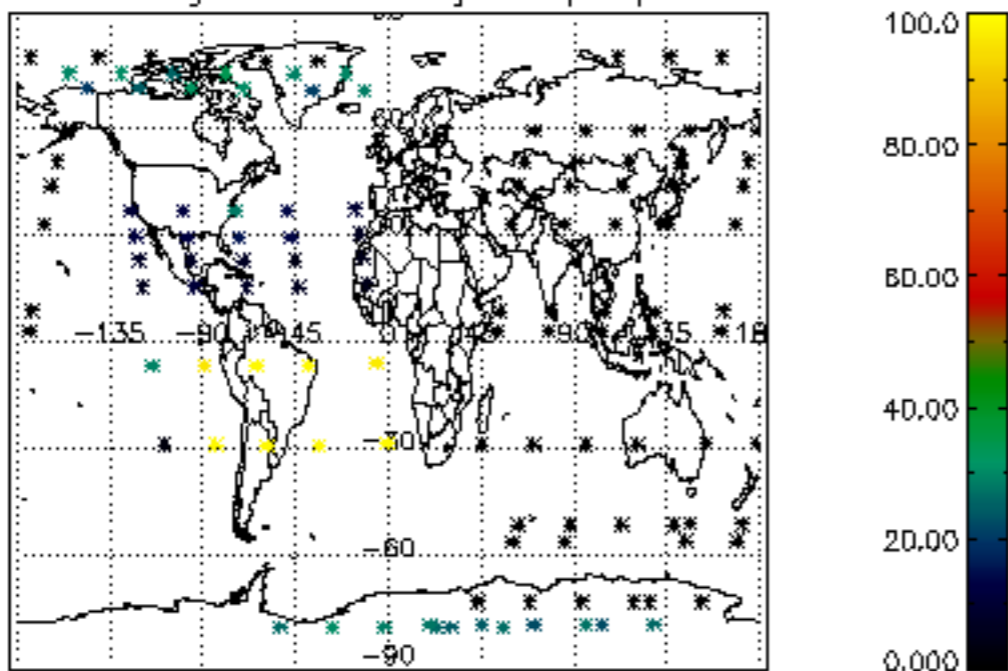




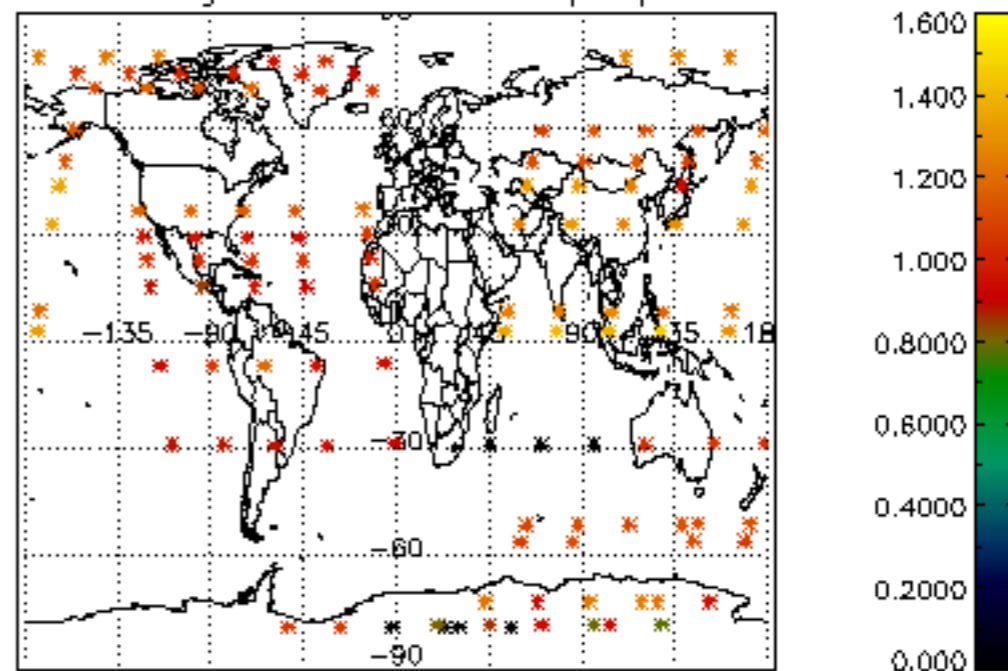




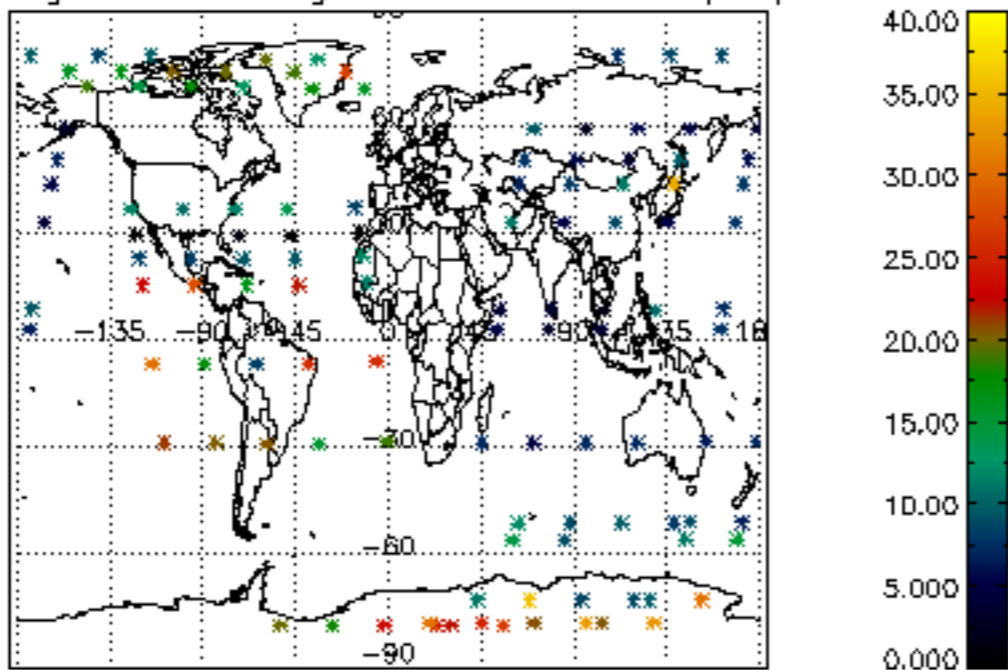
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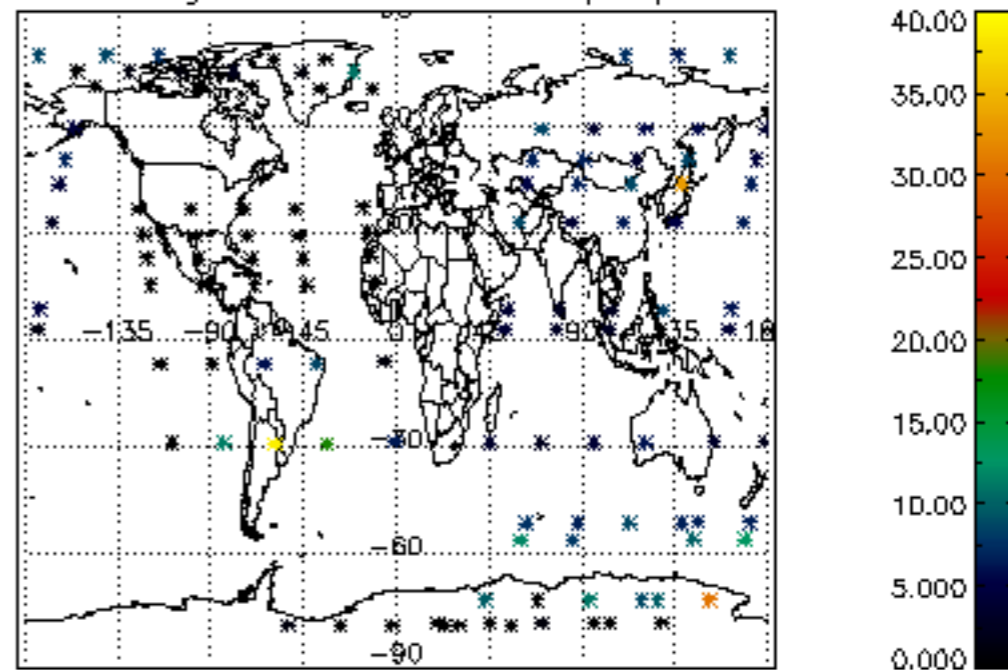
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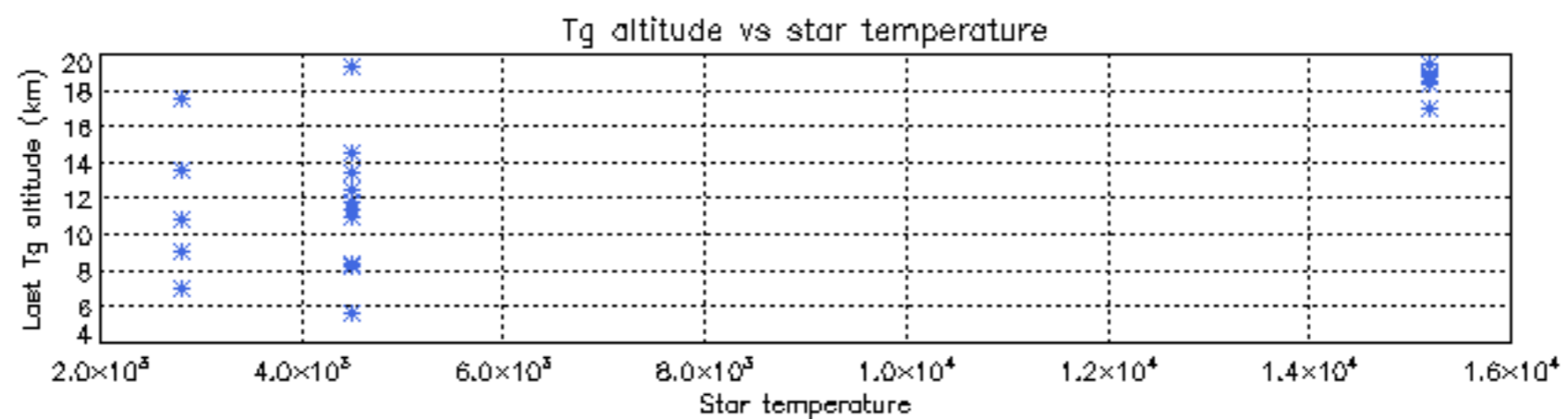
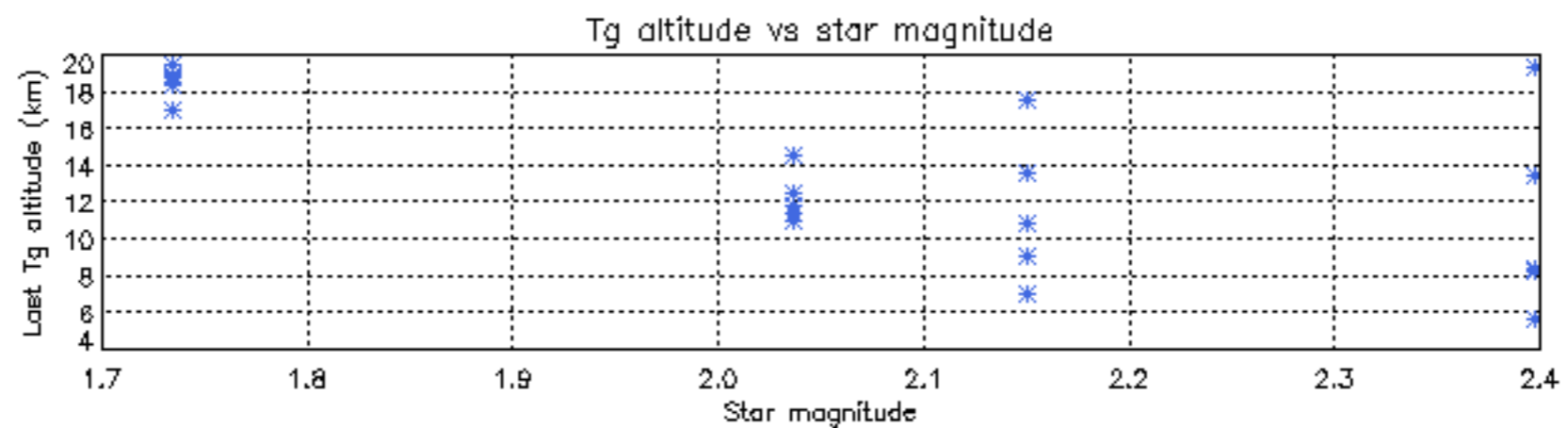
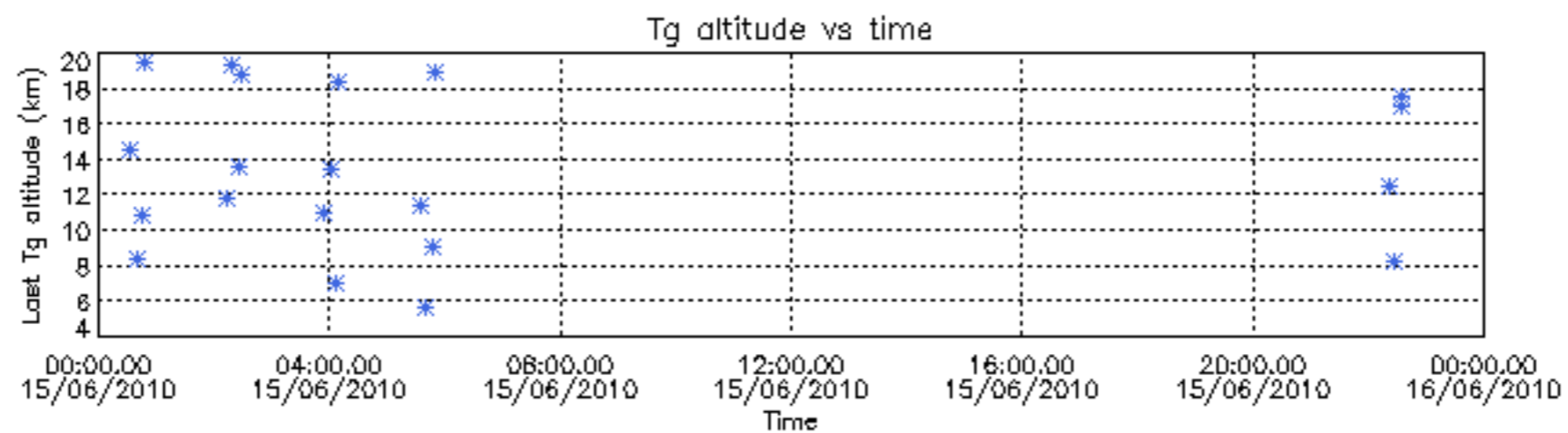
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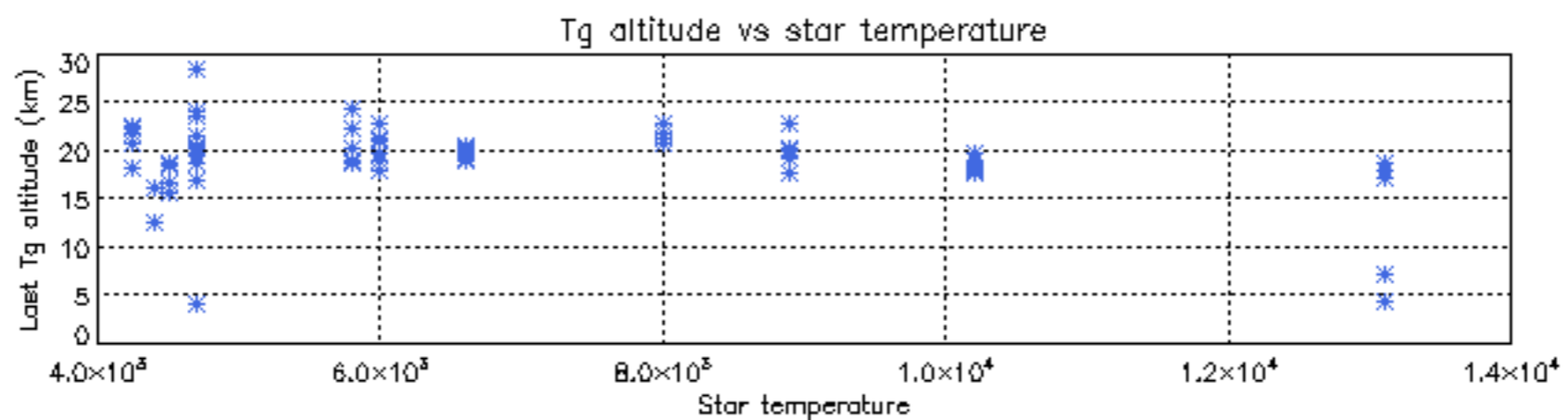
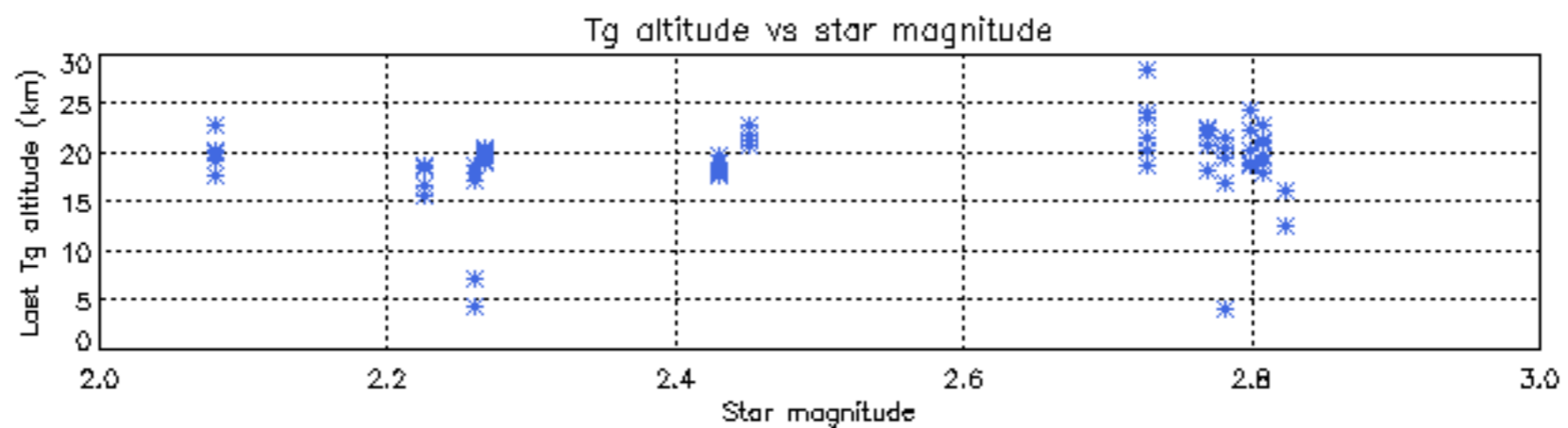
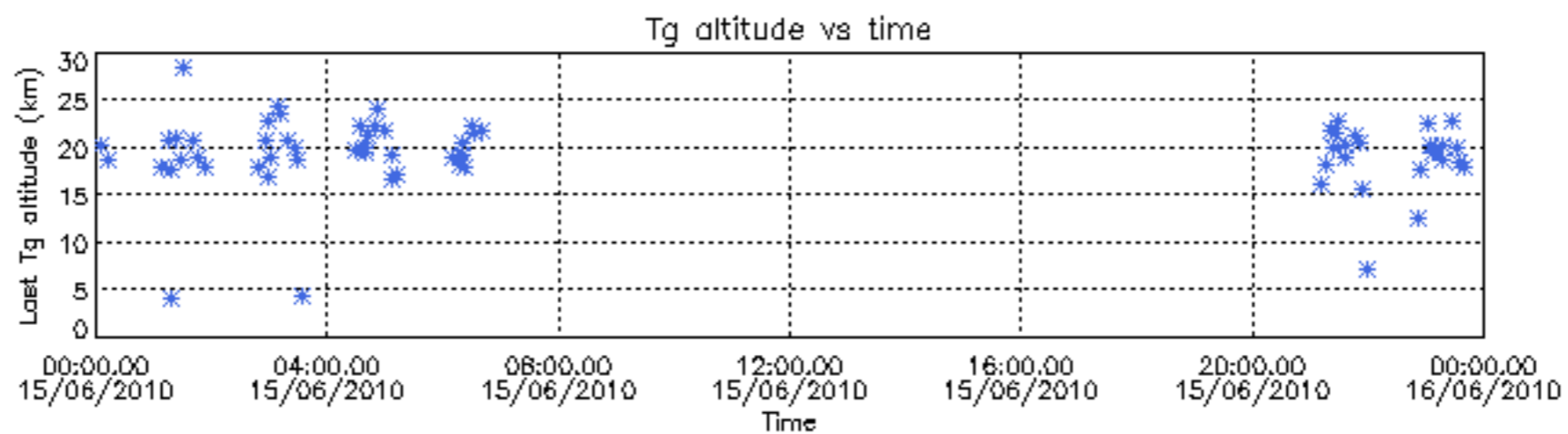
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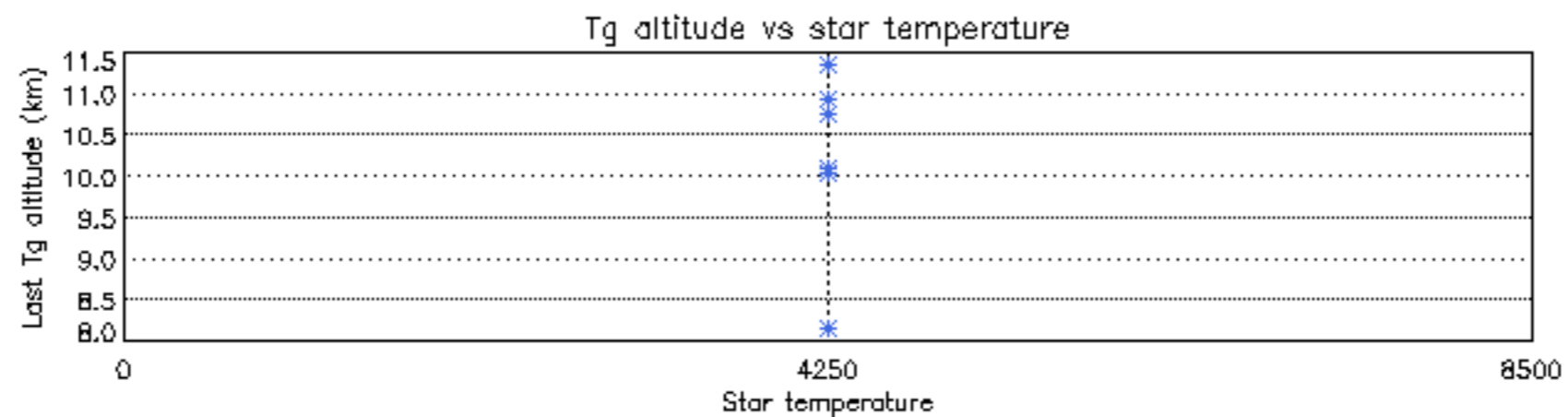
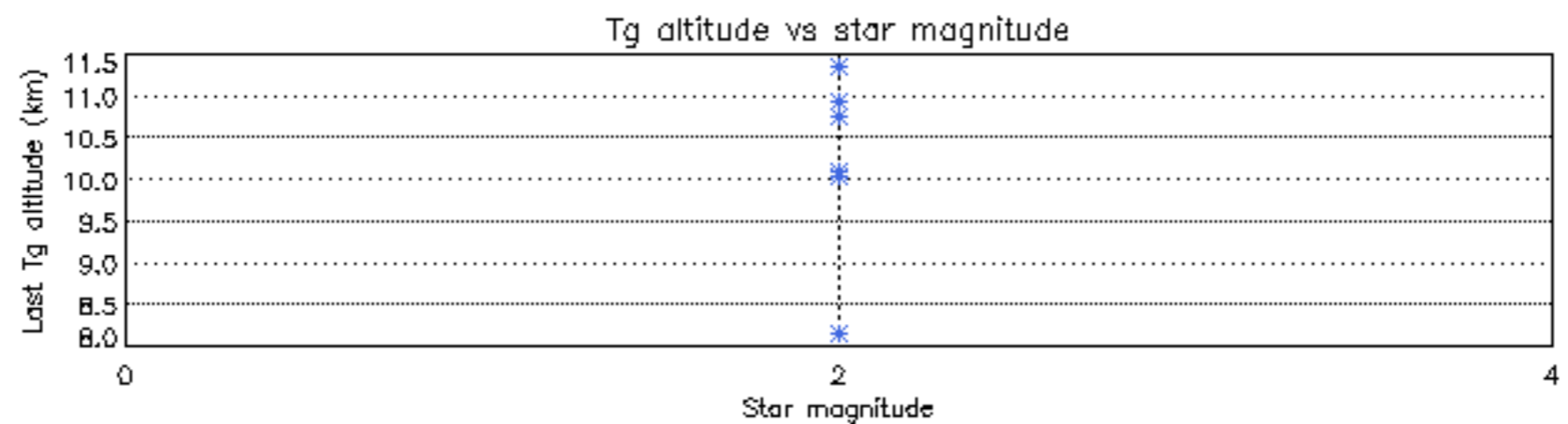
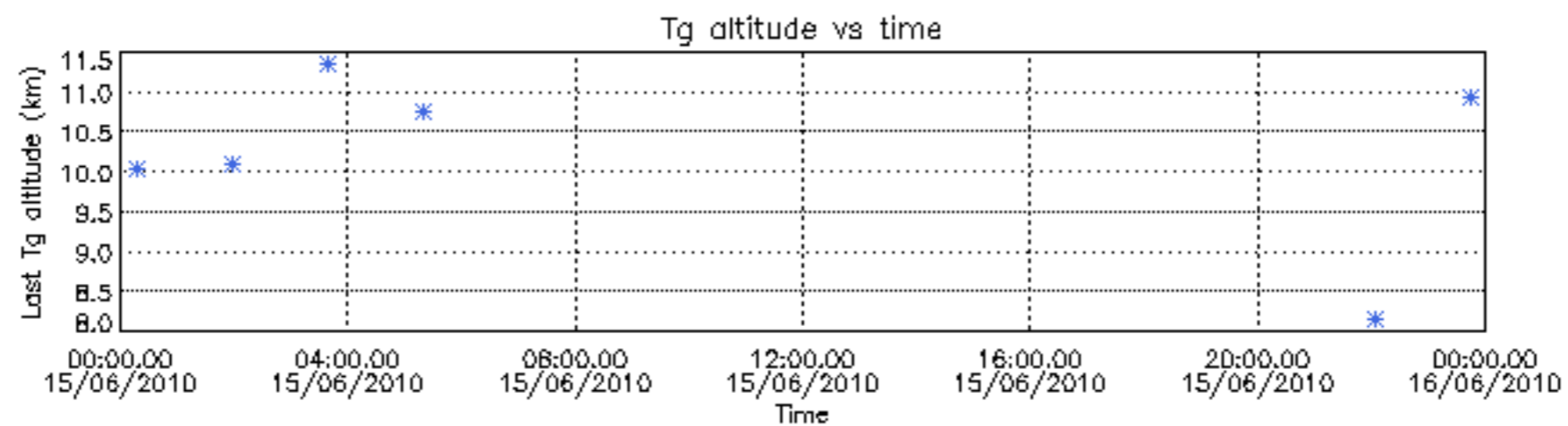
Tangent altitude at which the star is lost



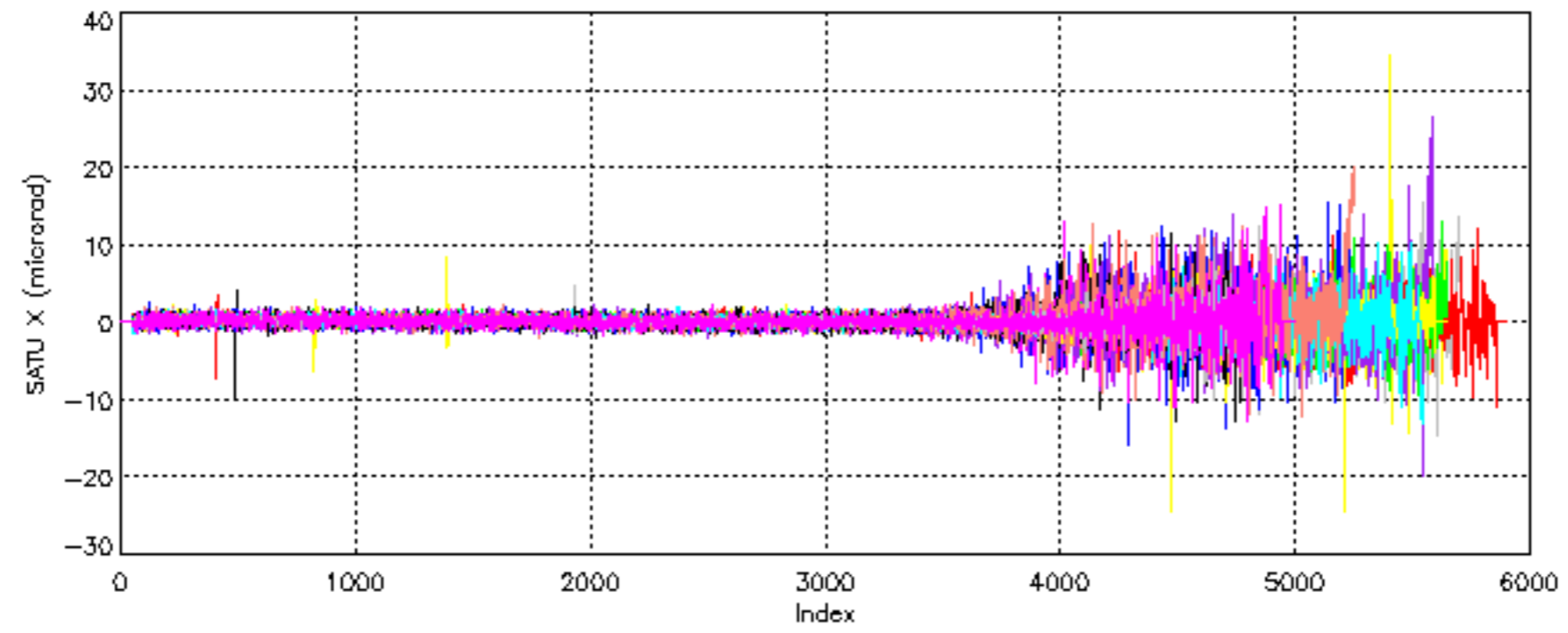
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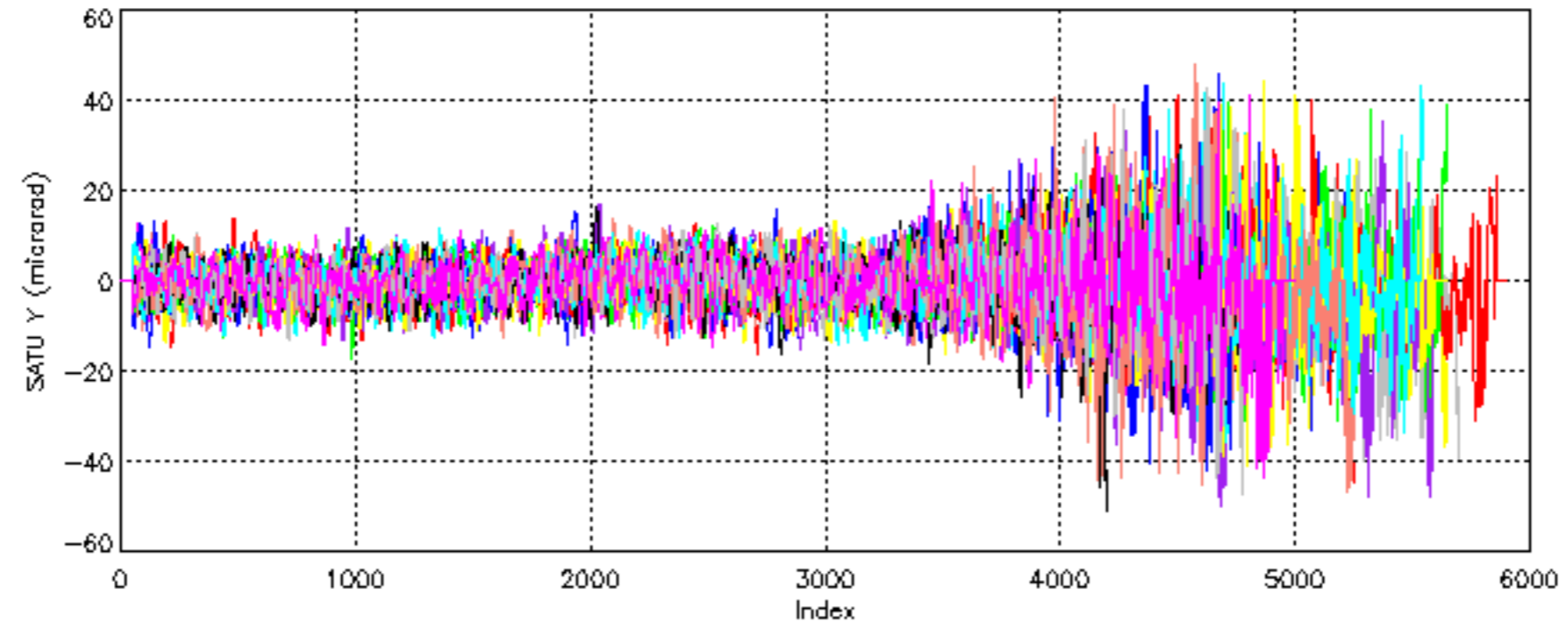


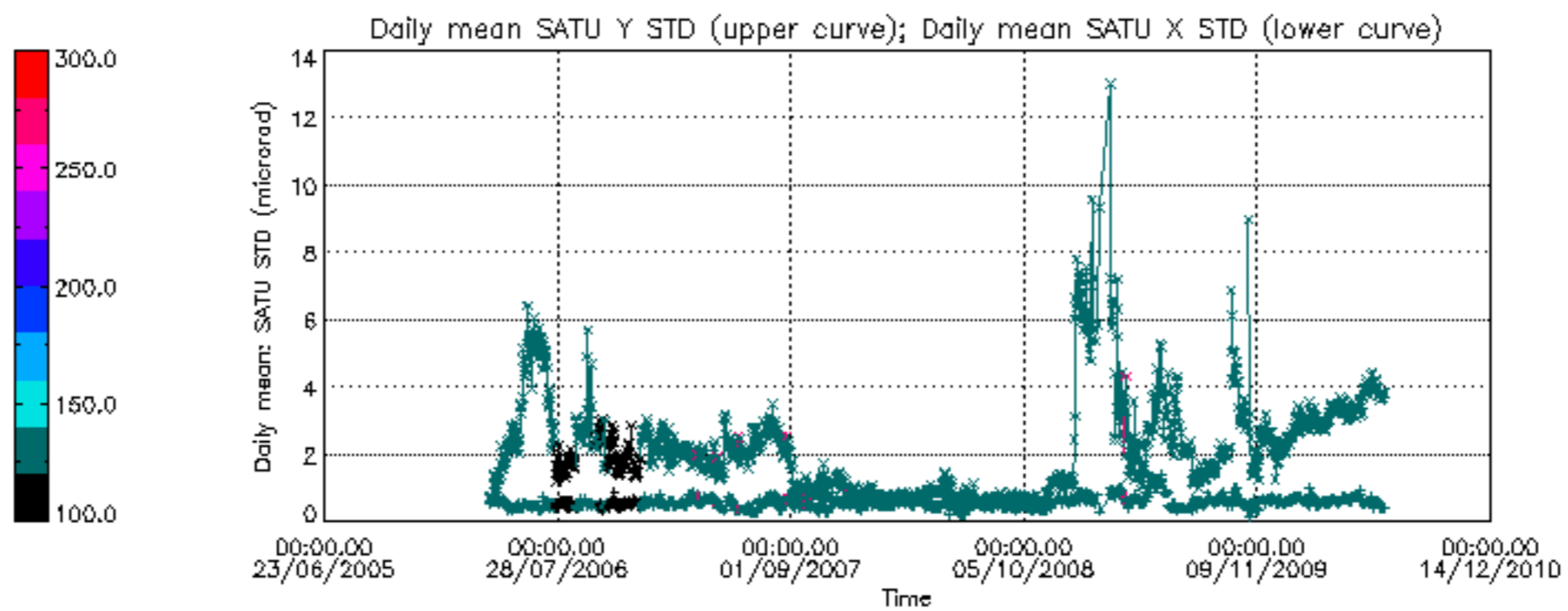
Tangent altitude at which the star is lost











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 9; 4262.4; 06-JUN-2010 14:58:52; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;43222  
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 13; 4411.6; 16-JUN-2010 21:29:23; Dark ; 60.5; 53; 43Bet And ; 2.05; 3300;occ; 121; 0;43369  
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10; 3874.3; 16-JUN-2010 19:39:50; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;43368
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22; 4623.7; 17-JUN-2010 02:34:43; Dark ; 46.5; 50; 13Alp Ari ; 2.01; 4250;occ; 93; 0;43372
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 9; 4064.6; 22-JUN-2010 09:50:54; Bright; 42.5; 160; 23Gam Per ; 2.93; 4700;occ; 85; 0;43448  
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 8; 1455.9; 22-JUN-2010 22:32:13; Bright; 51.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 103; 0;43456
 9; 1626.0; 22-JUN-2010 22:35:03; Bright; 38.5; 86; 35Eta Oph ; 2.43; 10200;occ; 77; 0;43456
10; 1989.7; 22-JUN-2010 22:41:06; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;43456
11; 2134.7; 22-JUN-2010 22:43:31; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;43456
12; 2447.4; 22-JUN-2010 22:48:44; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;43456
13; 2721.7; 22-JUN-2010 22:53:18; Bright; 44.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 88; 0;43456

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 16; 3840.5; 22-JUN-2010 23:11:57; Bright; 67.0; 74; 11Bet Cas ; 2.27; 6600;occ; 134; 0;43456  
 17; 3931.9; 22-JUN-2010 23:13:29; Bright; 65.0; 68; 18Alp Cas ; 2.22; 4500;occ; 130; 0;43456  
 18; 4064.5; 22-JUN-2010 23:15:41; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43456  
 19; 4270.6; 22-JUN-2010 23:19:07; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;43456  
 20; 4414.5; 22-JUN-2010 23:21:31; Dark ; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;43456  
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 22; 4933.5; 22-JUN-2010 23:30:10; Dark ; 38.0; 94; 92Alp Cet ; 2.53; 3100;occ; 76; 0;43456  
 23; 5412.0; 22-JUN-2010 23:38:09; Dark ; 15.5; 0; ; 0.00; 0;occ; 31; 0;43456

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 4; 492.8; 22-JUN-2010 23:56:45; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;43457  
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 6; 1239.8; 23-JUN-2010 00:09:12; Dark ; 46.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 93; 0;43457  
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 12; 2447.3; 23-JUN-2010 00:29:20; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;43457  
 13; 2720.9; 23-JUN-2010 00:33:53; Bright; 51.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 103; 0;43457  
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 15; 3424.4; 23-JUN-2010 00:45:37; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;43457  
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 18; 4065.1; 23-JUN-2010 00:56:18; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;43457  
 19; 4270.4; 23-JUN-2010 00:59:43; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;43457  
 20; 4414.9; 23-JUN-2010 01:02:07; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;43457  
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 5; 683.8; 23-JUN-2010 01:40:32; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;43458  
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 7; 1325.4; 23-JUN-2010 01:51:14; Dark ; 53.0; 116; 19Del Sgr ; 2.70; 4100;occ; 106; 0;43458  
 8; 1456.5; 23-JUN-2010 01:53:25; Bright; 52.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 104; 0;43458  
 9; 1989.5; 23-JUN-2010 02:02:18; Bright; 40.5; 126; 60Bet Oph ; 2.77; 4250;occ; 81; 0;43458  
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 12; 2720.1; 23-JUN-2010 02:14:28; Bright; 47.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 94; 0;43458  
 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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 18; 4270.5; 23-JUN-2010 02:40:19; Bright; 60.0; 73; 57Gam1And ; 2.26; 13100;occ; 120; 0;43458  
 19; 4414.7; 23-JUN-2010 02:42:43; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;43458  
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 21; 4934.6; 23-JUN-2010 02:51:23; Dark ; 36.5; 94; 92Alp Cet ; 2.53; 3100;occ; 73; 0;43458  
 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  
 26; 6720.8; 23-JUN-2010 03:21:09; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;43459  
 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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 3; 3839.6; 23-JUN-2010 04:13:44; Bright; 45.5; 74; 11Bet Cas ; 2.27; 6600;occ; 91; 0;43459  
 4; 3931.0; 23-JUN-2010 04:15:15; Bright; 47.5; 68; 18Alp Cas ; 2.22; 4500;occ; 95; 0;43459  
 5; 4064.9; 23-JUN-2010 04:17:29; Bright; 36.0; 160; 23Gam Per ; 2.93; 4700;occ; 72; 0;43459  
 6; 4270.6; 23-JUN-2010 04:20:55; Bright; 49.5; 73; 57Gam1And ; 2.26; 13100;occ; 99; 0;43459  
 7; 4415.3; 23-JUN-2010 04:23:20; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;43459  
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 9; 4934.7; 23-JUN-2010 04:31:59; Dark ; 37.0; 94; 92Alp Cet ; 2.53; 3100;occ; 74; 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  
 19; 8169.8; 23-JUN-2010 05:25:54; Bright; 40.0; 59; 55Alp Oph ; 2.08; 8900;occ; 80; 0;43460  
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 21; 8755.1; 23-JUN-2010 05:35:39; Bright; 52.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 104; 0;43460  
 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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 5; -1621.0; 23-JUN-2010 06:03:55; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;43460  
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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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 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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 11; 497.5; 23-JUN-2010 08:19:50; Dark ; 56.5; 31; Alp Gru ; 1.73; 15200;occ; 113; 0;43462  
 12; 686.0; 23-JUN-2010 08:22:58; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;43462  
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7; 2712.7; 23-JUN-2010 20:40:56; Bright; 45.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 91; 0;43469
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 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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 11; 2130.1; 24-JUN-2010 21:40:13; Bright; 41.0; 59; 55Alp Oph ; 2.08; 8900;occ; 82; 0;43484  
 12; 2702.6; 24-JUN-2010 21:49:45; Bright; 50.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 100; 0;43484  
 13; 2827.1; 24-JUN-2010 21:51:50; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;43484  
 14; 3405.4; 24-JUN-2010 22:01:28; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;43484  
 15; 3828.6; 24-JUN-2010 22:08:31; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;43484  
 16; 3922.2; 24-JUN-2010 22:10:05; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;43484  
 17; 4064.9; 24-JUN-2010 22:12:27; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43484  
 18; 4270.0; 24-JUN-2010 22:15:53; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;43484  
 19; 4416.8; 24-JUN-2010 22:18:19; Dark ; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;43484  
 20; 4651.7; 24-JUN-2010 22:22:14; Dark ; 54.5; 50; 13Alp Ari ; 2.01; 4250;occ; 109; 0;43484

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 3; 9.2; 24-JUN-2010 22:45:28; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;43484  
 4; 398.2; 24-JUN-2010 22:51:57; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;43485  
 5; 519.7; 24-JUN-2010 22:53:58; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;43485  
 6; 698.8; 24-JUN-2010 22:56:57; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;43485  
 7; 1248.5; 24-JUN-2010 23:06:07; Dark ; 44.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 89; 0;43485  
 8; 1332.8; 24-JUN-2010 23:07:31; Dark ; 55.5; 116; 19Del Sgr ; 2.70; 4100;occ; 111; 0;43485  
 9; 1462.1; 24-JUN-2010 23:09:41; Bright; 50.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 100; 0;43485

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11; 2130.2; 24-JUN-2010 23:20:49; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;43485
12; 2702.2; 24-JUN-2010 23:30:21; Bright; 47.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 95; 0;43485
13; 2826.9; 24-JUN-2010 23:32:25; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;43485
14; 3405.2; 24-JUN-2010 23:42:04; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;43485
15; 3828.1; 24-JUN-2010 23:49:06; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;43485
16; 3921.8; 24-JUN-2010 23:50:40; Bright; 66.0; 68; 18Alp Cas ; 2.22; 4500;occ; 132; 0;43485
17; 4064.8; 24-JUN-2010 23:53:03; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;43485
18; 4269.9; 24-JUN-2010 23:56:28; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;43485
19; 4417.2; 24-JUN-2010 23:58:56; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;43485
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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
7; 1248.9; 25-JUN-2010 00:46:43; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;43486
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
11; 2129.9; 25-JUN-2010 01:01:24; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;43486
12; 2701.4; 25-JUN-2010 01:10:56; Bright; 50.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 101; 0;43486
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
16; 3921.4; 25-JUN-2010 01:31:16; Bright; 49.0; 68; 18Alp Cas ; 2.22; 4500;occ; 98; 0;43486
17; 4064.9; 25-JUN-2010 01:33:39; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43486
18; 4269.8; 25-JUN-2010 01:37:04; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;43486
19; 4417.1; 25-JUN-2010 01:39:31; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;43486
20; 4652.5; 25-JUN-2010 01:43:27; Dark ; 55.0; 50; 13Alp Ari ; 2.01; 4250;occ; 110; 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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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  
 7; -602.0; 25-JUN-2010 05:17:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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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 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  
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 9; 3822.3; 25-JUN-2010 21:36:48; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;43498  
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 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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 3; 411.9; 25-JUN-2010 22:20:33; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;43499  
 4; 532.8; 25-JUN-2010 22:22:34; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;43499  
 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  
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 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  
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 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  
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 4; 533.7; 26-JUN-2010 00:03:11; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;43500  
 5; 706.9; 26-JUN-2010 00:06:04; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;43500  
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 7; 1336.7; 26-JUN-2010 00:16:34; Dark ; 53.0; 116; 19Del Sgr ; 2.70; 4100;occ; 106; 0;43500  
 8; 1465.2; 26-JUN-2010 00:18:43; Bright; 49.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 99; 0;43500  
 9; 1985.6; 26-JUN-2010 00:27:23; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;43500



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10; 2128.0; 26-JUN-2010 00:29:45; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 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
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13; 1262.2; 28-JUN-2010 05:54:29; Dark ; 42.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 85; 0;43532
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 9; 3802.0; 28-JUN-2010 21:42:13; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;43541
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