

GOMOS Daily Report 17-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	20JUN2010 04:50:03
Data source version	GOMOS/5.01
Start time of products	17JUN2010 00:00:02
Stop time of products	17JUN2010 23:54:44
Store outputs in DB	Yes
Nb of level 1b prods	143
Nb of prods with errors	1

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

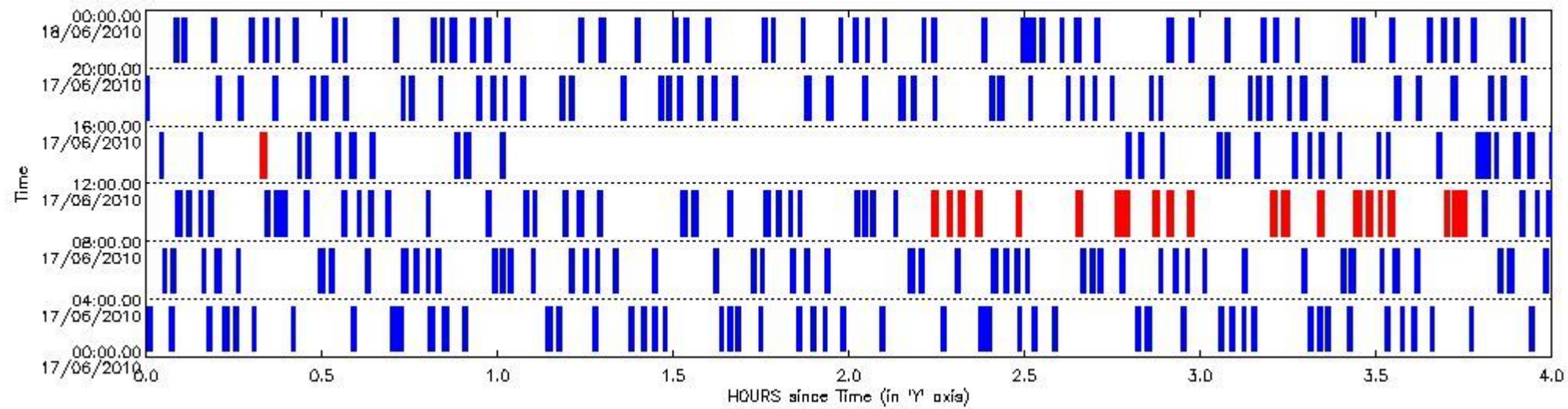
2.1 Level 0 products arrived in PCF (see template [here](#))

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
17-JUN-2010 10:14:10	60BetOph	126	43377
17-JUN-2010 10:16:40	55AlpOph	59	43377
17-JUN-2010 10:18:43	27BetHer	127	43377
17-JUN-2010 10:21:43	40ZetHer	133	43377
17-JUN-2010 10:28:28	23BetDra	130	43377
17-JUN-2010 10:38:47	5AlpCep	89	43377
17-JUN-2010 10:45:18	11BetCas	74	43377
17-JUN-2010 10:46:43	18AlpCas	68	43377
17-JUN-2010 10:51:57	57Gam1And	73	43377
17-JUN-2010 10:54:20	43BetAnd	53	43377
17-JUN-2010 10:57:52	13AlpAri	50	43377
17-JUN-2010 11:12:05	DSA1068	0	43377
17-JUN-2010 11:13:51	16BetCet	52	43377
17-JUN-2010 11:19:59	AlpPhe	84	43377
17-JUN-2010 11:26:16	BetGru	63	43378

17-JUN-2010 11:28:19	AlpGru	31	43378
17-JUN-2010 11:30:21	GamGru	172	43378
17-JUN-2010 11:32:01	AlpPav	45	43378
17-JUN-2010 11:41:36	20EpsSgr	38	43378
17-JUN-2010 11:43:05	19DelSgr	116	43378
17-JUN-2010 11:44:24	22LamSgr	137	43378
17-JUN-2010 12:19:22	5AlpCep	89	43378

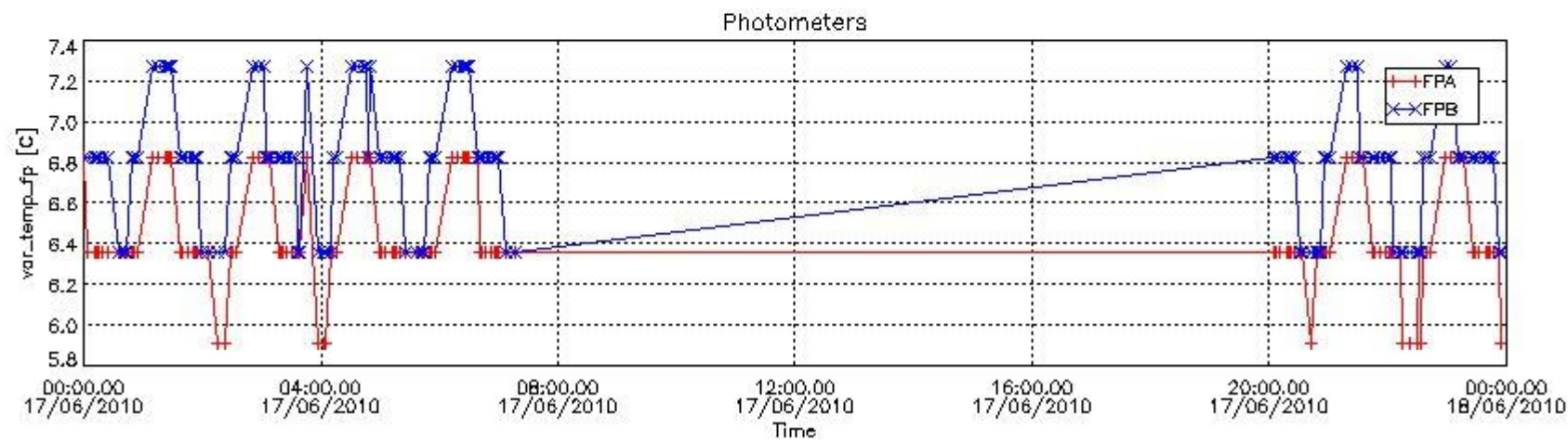
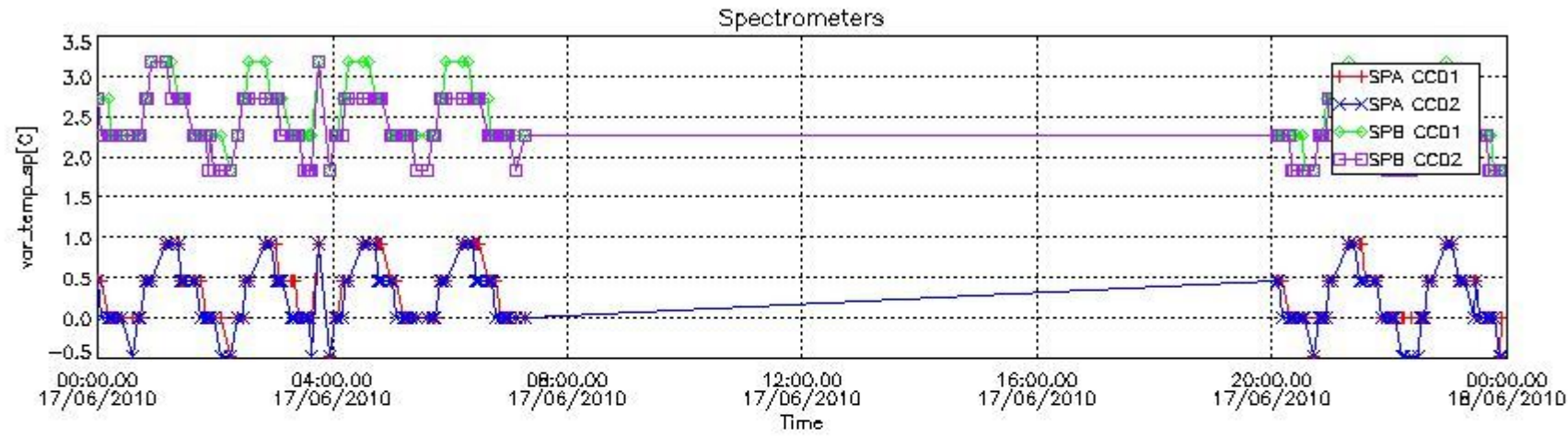
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100617_000002_000000492090_00231_43371_9616.N1	17-JUN-2010 00:00:02	Bright	48.500	137	22Lam Sgr	2.8240	4400.0	97	43371	No
2	GOM_TRA_1PNPDE20100617_000358_000000402090_00231_43371_9617.N1	17-JUN-2010 00:03:58	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	43371	No
3	GOM_TRA_1PNPDE20100617_001027_000000442090_00231_43371_9618.N1	17-JUN-2010 00:10:27	Bright	43.500	126	60Bet Oph	2.7700	4250.0	87	43371	No
4	GOM_TRA_1PNPDE20100617_001258_000000622090_00231_43371_9619.N1	17-JUN-2010 00:12:58	Bright	62.000	59	55Alp Oph	2.0800	8900.0	124	43371	No
5	GOM_TRA_1PNPDE20100617_001459_000000362090_00231_43371_9620.N1	17-JUN-2010 00:14:59	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	43371	No
6	GOM_TRA_1PNPDE20100617_001800_000000392090_00231_43371_9621.N1	17-JUN-2010 00:18:00	Bright	38.500	133	40Zet Her	2.8070	6000.0	77	43371	No
7	GOM_TRA_1PNPDE20100617_002446_000000382090_00231_43371_9622.N1	17-JUN-2010 00:24:46	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	43371	No
8	GOM_TRA_1PNPDE20100617_003506_000000482090_00231_43371_9623.N1	17-JUN-2010 00:35:06	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	43371	No
9	GOM_TRA_1PNPDE20100617_004136_000000642090_00231_43371_9624.N1	17-JUN-2010 00:41:36	Bright	64.000	74	11Bet Cas	2.2680	6600.0	128	43371	No
10	GOM_TRA_1PNPDE20100617_004300_000000502090_00231_43371_9625.N1	17-JUN-2010 00:43:00	Bright	50.000	68	18Alp Cas	2.2250	4500.0	100	43371	No
11	GOM_TRA_1PNPDE20100617_004813_000000572090_00231_43371_9626.N1	17-JUN-2010 00:48:13	Bright	57.000	73	57Gam1And	2.2600	13100.	114	43371	No
12	GOM_TRA_1PNPDE20100617_005035_000000672090_00231_43371_9627.N1	17-JUN-2010 00:50:35	Twilight	66.500	53	43Bet And	2.0480	3300.0	133	43371	No
13	GOM_TRA_1PNPDE20100617_005407_000000502090_00231_43371_9628.N1	17-JUN-2010 00:54:07	Twilight	50.000	50	13Alp Ari	2.0070	4250.0	100	43371	No
14	GOM_TRA_1PNPDE20100617_011000_000000582090_00231_43371_9643.N1	17-JUN-2010 01:10:00	Dark	57.500	52	16Bet Cet	2.0370	4500.0	115	43371	No
15	GOM_TRA_1PNPDE20100617_011610_000000552090_00231_43371_9644.N1	17-JUN-2010 01:16:10	Dark	54.500	84	Alp Phe	2.3970	4500.0	109	43371	No
16	GOM_TRA_1PNPDE20100617_012225_000000502090_00232_43372_9645.N1	17-JUN-2010 01:22:25	Dark	50.000	63	Bet Gru	2.1500	2800.0	100	43372	No
17	GOM_TRA_1PNPDE20100617_012429_000000492090_00232_43372_9646.N1	17-JUN-2010 01:24:29	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	43372	No
18	GOM_TRA_1PNPDE20100617_012629_000000412090_00232_43372_9647.N1	17-JUN-2010 01:26:29	Straylight	41.000	172	Gam Gru	3.0030	13100.	82	43372	No
19	GOM_TRA_1PNPDE20100617_012813_000000432090_00232_43372_9648.N1	17-JUN-2010 01:28:13	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	43372	No
20	GOM_TRA_1PNPDE20100617_013749_000000472090_00232_43372_9649.N1	17-JUN-2010 01:37:49	Twilight	46.500	38	20Eps Sgr	1.8360	11000.	93	43372	No
21	GOM_TRA_1PNPDE20100617_013919_000000492090_00232_43372_9650.N1	17-JUN-2010 01:39:19	Twilight	49.000	116	19Del Sgr	2.7000	4100.0	98	43372	No
22	GOM_TRA_1PNPDE20100617_014038_000000502090_00232_43372_9651.N1	17-JUN-2010 01:40:38	Bright	50.000	137	22Lam Sgr	2.8240	4400.0	100	43372	No
23	GOM_TRA_1PNPDE20100617_014434_000000402090_00232_43372_9652.N1	17-JUN-2010 01:44:34	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	43372	No
24	GOM_TRA_1PNPDE20100617_015103_000000432090_00232_43372_9653.N1	17-JUN-2010 01:51:03	Bright	43.000	126	60Bet Oph	2.7700	4250.0	86	43372	No
25	GOM_TRA_1PNPDE20100617_015333_000000432090_00232_43372_9654.N1	17-JUN-2010 01:53:33	Bright	43.000	59	55Alp Oph	2.0800	8900.0	86	43372	No
26	GOM_TRA_1PNPDE20100617_015535_000000392090_00232_43372_9655.N1	17-JUN-2010 01:55:35	Bright	38.500	127	27Bet Her	2.7810	4700.0	77	43372	No
27	GOM_TRA_1PNPDE20100617_015835_000000402090_00232_43372_9656.N1	17-JUN-2010 01:58:35	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	43372	No
28	GOM_TRA_1PNPDE20100617_020521_000000412090_00232_43372_9657.N1	17-JUN-2010 02:05:21	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	43372	No
29	GOM_TRA_1PNPDE20100617_021541_000000482090_00232_43372_9658.N1	17-JUN-2010 02:15:41	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	43372	No
30	GOM_TRA_1PNPDE20100617_022212_000000552090_00232_43372_9659.N1	17-JUN-2010 02:22:12	Bright	54.500	74	11Bet Cas	2.2680	6600.0	109	43372	No
31	GOM_TRA_1PNPDE20100617_022336_000000462090_00232_43372_9660.N1	17-JUN-2010 02:23:36	Bright	45.500	68	18Alp Cas	2.2250	4500.0	91	43372	No
32	GOM_TRA_1PNPDE20100617_022849_000000412090_00232_43372_9661.N1	17-JUN-2010 02:28:49	Bright	40.500	73	57Gam1And	2.2600	13100.	81	43372	No
33	GOM_TRA_1PNPDE20100617_023111_000000572090_00232_43372_9662.N1	17-JUN-2010 02:31:11	Twilight	57.000	53	43Bet And	2.0480	3300.0	114	43372	No
34	GOM_TRA_1PNPDE20100617_023443_000000472090_00232_43372_9663.N1	17-JUN-2010 02:34:43	Twilight	46.500	50	13Alp Ari	2.0070	4250.0	93	43372	No
35	GOM_TRA_1PNPDE20100617_025037_000000572090_00232_43372_9664.N1	17-JUN-2010 02:50:37	Dark	56.500	52	16Bet Cet	2.0370	4500.0	113	43372	No
36	GOM_TRA_1PNPDE20100617_025646_000000442090_00232_43372_9665.N1	17-JUN-2010 02:56:46	Dark	44.000	84	Alp Phe	2.3970	4500.0	88	43372	No
37	GOM_TRA_1PNPDE20100617_030303_000000512090_00233_43373_9666.N1	17-JUN-2010 03:03:03	Dark	51.000	63	Bet Gru	2.1500	2800.0	102	43373	No
38	GOM_TRA_1PNPDE20100617_030506_000000502090_00233_43373_9667.N1	17-JUN-2010 03:05:06	Straylight	50.000	31	Alp Gru	1.7340	15200.	100	43373	No
39	GOM_TRA_1PNPDE20100617_030706_000000412090_00233_43373_9668.N1	17-JUN-2010 03:07:06	Straylight	41.000	172	Gam Gru	3.0030	13100.	82	43373	No
40	GOM_TRA_1PNPDE20100617_030850_000000442090_00233_43373_9669.N1	17-JUN-2010 03:08:50	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	43373	No
41	GOM_TRA_1PNPDE20100617_031826_000000502090_00233_43373_9670.N1	17-JUN-2010 03:18:26	Twilight	49.500	38	20Eps Sgr	1.8360	11000.	99	43373	No
42	GOM_TRA_1PNPDE20100617_031955_000000512090_00233_43373_9671.N1	17-JUN-2010 03:19:55	Twilight	51.000	116	19Del Sgr	2.7000	4100.0	102	43373	No
43	GOM_TRA_1PNPDE20100617_032114_000000502090_00233_43373_9672.N1	17-JUN-2010 03:21:14	Bright	50.000	137	22Lam Sgr	2.8240	4400.0	100	43373	No
44	GOM_TRA_1PNPDE20100617_032510_000000402090_00233_43373_9673.N1	17-JUN-2010 03:25:10	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	43373	No
45	GOM_TRA_1PNPDE20100617_033138_000000432090_00233_43373_9674.N1	17-JUN-2010 03:31:38	Bright	43.000	126	60Bet Oph	2.7700	4250.0	86	43373	No
46	GOM_TRA_1PNPDE20100617_033408_000000432090_00233_43373_9675.N1	17-JUN-2010 03:34:08	Bright	42.500	59	55Alp Oph	2.0800	8900.0	85	43373	No
47	GOM_TRA_1PNPDE20100617_033610_000000372090_00233_43373_9676.N1	17-JUN-2010 03:36:10	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	43373	No

48	GOM_TRA_1PNPDE20100617_033911_000000392090_00233_43373_9677.N1	17-JUN-2010 03:39:11	Bright	38.500	133	40Zet Her	2.8070	6000.0	77	43373	No
49	GOM_TRA_1PNPDE20100617_034557_000000402090_00233_43373_9696.N1	17-JUN-2010 03:45:57	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	43373	Yes
50	GOM_TRA_1PNPDE20100617_035617_000000492090_00233_43373_9697.N1	17-JUN-2010 03:56:17	Bright	48.500	89	5Alp Cep	2.4510	8000.0	97	43373	No
51	GOM_TRA_1PNPDE20100617_040247_000000432090_00233_43373_9698.N1	17-JUN-2010 04:02:47	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	43373	No
52	GOM_TRA_1PNPDE20100617_040412_000000462090_00233_43373_9699.N1	17-JUN-2010 04:04:12	Bright	45.500	68	18Alp Cas	2.2250	4500.0	91	43373	No
53	GOM_TRA_1PNPDE20100617_040925_000000422090_00233_43373_9700.N1	17-JUN-2010 04:09:25	Bright	42.000	73	57Gam1And	2.2600	13100.	84	43373	No
54	GOM_TRA_1PNPDE20100617_041147_000000592090_00233_43373_9701.N1	17-JUN-2010 04:11:47	Twilight	58.500	53	43Bet And	2.0480	3300.0	117	43373	No
55	GOM_TRA_1PNPDE20100617_041519_000000472090_00233_43373_9702.N1	17-JUN-2010 04:15:19	Twilight	47.000	50	13Alp Ari	2.0070	4250.0	94	43373	No
56	GOM_TRA_1PNPDE20100617_043115_000000552090_00233_43373_9703.N1	17-JUN-2010 04:31:15	Dark	55.000	52	16Bet Cet	2.0370	4500.0	110	43373	No
57	GOM_TRA_1PNPDE20100617_043723_000000542090_00233_43373_9704.N1	17-JUN-2010 04:37:23	Dark	53.500	84	Alp Phe	2.3970	4500.0	107	43373	No
58	GOM_TRA_1PNPDE20100617_044339_000000632090_00234_43374_9705.N1	17-JUN-2010 04:43:39	Dark	62.500	63	Bet Gru	2.1500	2800.0	125	43374	No
59	GOM_TRA_1PNPDE20100617_044543_000000472090_00234_43374_9706.N1	17-JUN-2010 04:45:43	Straylight	46.500	31	Alp Gru	1.7340	15200.	93	43374	No
60	GOM_TRA_1PNPDE20100617_044743_000000402090_00234_43374_9707.N1	17-JUN-2010 04:47:43	Straylight	40.000	172	Gam Gru	3.0030	13100.	80	43374	No
61	GOM_TRA_1PNPDE20100617_044926_000000432090_00234_43374_9708.N1	17-JUN-2010 04:49:26	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	43374	No
62	GOM_TRA_1PNPDE20100617_045902_000000472090_00234_43374_9709.N1	17-JUN-2010 04:59:02	Twilight	46.500	38	20Eps Sgr	1.8360	11000.	93	43374	No
63	GOM_TRA_1PNPDE20100617_050031_000000512090_00234_43374_9710.N1	17-JUN-2010 05:00:31	Twilight	50.500	116	19Del Sgr	2.7000	4100.0	101	43374	No
64	GOM_TRA_1PNPDE20100617_050150_000000532090_00234_43374_9711.N1	17-JUN-2010 05:01:50	Bright	52.500	137	22Lam Sgr	2.8240	4400.0	105	43374	No
65	GOM_TRA_1PNPDE20100617_050546_000000412090_00234_43374_9712.N1	17-JUN-2010 05:05:46	Bright	41.000	86	35Eta Oph	2.4300	10200.	82	43374	No
66	GOM_TRA_1PNPDE20100617_051215_000000442090_00234_43374_9713.N1	17-JUN-2010 05:12:15	Bright	44.000	126	60Bet Oph	2.7700	4250.0	88	43374	No
67	GOM_TRA_1PNPDE20100617_051445_000000432090_00234_43374_9714.N1	17-JUN-2010 05:14:45	Bright	43.000	59	55Alp Oph	2.0800	8900.0	86	43374	No
68	GOM_TRA_1PNPDE20100617_051646_000000392090_00234_43374_9715.N1	17-JUN-2010 05:16:46	Bright	38.500	127	27Bet Her	2.7810	4700.0	77	43374	No
69	GOM_TRA_1PNPDE20100617_051947_000000372090_00234_43374_9716.N1	17-JUN-2010 05:19:47	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	43374	No
70	GOM_TRA_1PNPDE20100617_052632_000000402090_00234_43374_9717.N1	17-JUN-2010 05:26:32	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	43374	No
71	GOM_TRA_1PNPDE20100617_053652_000000492090_00234_43374_9718.N1	17-JUN-2010 05:36:52	Bright	49.000	89	5Alp Cep	2.4510	8000.0	98	43374	No
72	GOM_TRA_1PNPDE20100617_054323_000000462090_00234_43374_9717.N1	17-JUN-2010 05:43:23	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	43374	No
73	GOM_TRA_1PNPDE20100617_054448_000000462090_00234_43374_9718.N1	17-JUN-2010 05:44:48	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	43374	No
74	GOM_TRA_1PNPDE20100617_055001_000000422090_00234_43374_9719.N1	17-JUN-2010 05:50:01	Bright	42.000	73	57Gam1And	2.2600	13100.	84	43374	No
75	GOM_TRA_1PNPDE20100617_055223_000000542090_00234_43374_9720.N1	17-JUN-2010 05:52:23	Twilight	54.000	53	43Bet And	2.0480	3300.0	108	43374	No
76	GOM_TRA_1PNPDE20100617_055555_000000482090_00234_43374_9721.N1	17-JUN-2010 05:55:55	Twilight	47.500	50	13Alp Ari	2.0070	4250.0	95	43374	No
77	GOM_TRA_1PNPDE20100617_061152_000000562090_00234_43374_9722.N1	17-JUN-2010 06:11:52	Dark	56.000	52	16Bet Cet	2.0370	4500.0	112	43374	No
78	GOM_TRA_1PNPDE20100617_061800_000000522090_00234_43374_9723.N1	17-JUN-2010 06:18:00	Dark	51.500	84	Alp Phe	2.3970	4500.0	103	43374	No
79	GOM_TRA_1PNPDE20100617_062416_000000592090_00235_43375_9724.N1	17-JUN-2010 06:24:16	Dark	58.500	63	Bet Gru	2.1500	2800.0	117	43375	No
80	GOM_TRA_1PNPDE20100617_062620_000000472090_00235_43375_9725.N1	17-JUN-2010 06:26:20	Straylight	47.000	31	Alp Gru	1.7340	15200.	94	43375	No
81	GOM_TRA_1PNPDE20100617_062820_000000402090_00235_43375_9726.N1	17-JUN-2010 06:28:20	Straylight	40.000	172	Gam Gru	3.0030	13100.	80	43375	No
82	GOM_TRA_1PNPDE20100617_063003_000000432090_00235_43375_9727.N1	17-JUN-2010 06:30:03	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	43375	No
83	GOM_TRA_1PNPDE20100617_063939_000000472090_00235_43375_9728.N1	17-JUN-2010 06:39:39	Twilight	47.000	38	20Eps Sgr	1.8360	11000.	94	43375	No
84	GOM_TRA_1PNPDE20100617_064107_000000512090_00235_43375_9729.N1	17-JUN-2010 06:41:07	Twilight	51.000	116	19Del Sgr	2.7000	4100.0	102	43375	No
85	GOM_TRA_1PNPDE20100617_064227_000000492090_00235_43375_9730.N1	17-JUN-2010 06:42:27	Bright	48.500	137	22Lam Sgr	2.8240	4400.0	97	43375	No
86	GOM_TRA_1PNPDE20100617_064622_000000402090_00235_43375_9731.N1	17-JUN-2010 06:46:22	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	43375	No
87	GOM_TRA_1PNPDE20100617_065250_000000442090_00235_43375_9732.N1	17-JUN-2010 06:52:50	Bright	43.500	126	60Bet Oph	2.7700	4250.0	87	43375	No
88	GOM_TRA_1PNPDE20100617_065520_000000432090_00235_43375_9733.N1	17-JUN-2010 06:55:20	Bright	43.000	59	55Alp Oph	2.0800	8900.0	86	43375	No
89	GOM_TRA_1PNPDE20100617_065722_000000402090_00235_43375_9734.N1	17-JUN-2010 06:57:22	Bright	39.500	127	27Bet Her	2.7810	4700.0	79	43375	No
90	GOM_TRA_1PNPDE20100617_070023_000000392090_00235_43375_9735.N1	17-JUN-2010 07:00:23	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	43375	No
91	GOM_TRA_1PNPDE20100617_070708_000000442090_00235_43375_9736.N1	17-JUN-2010 07:07:08	Bright	43.500	130	23Bet Dra	2.7990	5800.0	87	43375	No
92	GOM_TRA_1PNPDE20100617_071727_000000482090_00235_43375_9737.N1	17-JUN-2010 07:17:27	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	43375	No
93	GOM_TRA_1PNPDE20100617_200440_000000452090_00243_43383_9829.N1	17-JUN-2010 20:04:40	Twilight	44.500	25	35Lam Sco	1.6200	28000.	89	43383	No
94	GOM_TRA_1PNPDE20100617_200603_000000502090_00243_43383_9830.N1	17-JUN-2010 20:06:03	Twilight	49.500	167	10Gam2Sgr	2.9840	4500.0	99	43383	No
95	GOM_TRA_1PNPDE20100617_201111_000000412090_00243_43383_9831.N1	17-JUN-2010 20:11:11	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	43383	No
96	GOM_TRA_1PNPDE20100617_201736_000000442090_00243_43383_9832.N1	17-JUN-2010 20:17:36	Bright	44.000	126	60Bet Oph	2.7700	4250.0	88	43383	No
97	GOM_TRA_1PNPDE20100617_202005_000000422090_00243_43383_9833.N1	17-JUN-2010 20:20:05	Bright	41.500	59	55Alp Oph	2.0800	8900.0	83	43383	No
98	GOM_TRA_1PNPDE20100617_202209_000000362090_00243_43383_9834.N1	17-JUN-2010 20:22:09	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	43383	No
99	GOM_TRA_1PNPDE20100617_202509_000000382090_00243_43383_9835.N1	17-JUN-2010 20:25:09	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	43383	No
100	GOM_TRA_1PNPDE20100617_203152_000000412090_00243_43383_9836.N1	17-JUN-2010 20:31:52	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	43383	No
101	GOM_TRA_1PNPDE20100617_203332_000000412090_00243_43383_9837.N1	17-JUN-2010 20:33:32	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	43383	No
102	GOM_TRA_1PNPDE20100617_204209_000000482090_00243_43383_9838.N1	17-JUN-2010 20:42:09	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	43383	No
103	GOM_TRA_1PNPDE20100617_204843_000000422090_00243_43383_9839.N1	17-JUN-2010 20:48:43	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	43383	No
104	GOM_TRA_1PNPDE20100617_205008_000000452090_00243_43383_9840.N1	17-JUN-2010 20:50:08	Bright	45.000	68	18Alp Cas	2.2250	4500.0	90	43383	No
105	GOM_TRA_1PNPDE20100617_205157_000000532090_00243_43383_9841.N1	17-JUN-2010 20:51:57	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	43383	No
106	GOM_TRA_1PNPDE20100617_205524_000000432090_00243_43383_9842.N1	17-JUN-2010 20:55:24	Bright	42.500	73	57Gam1And	2.2600	13100.	85	43383	No

107	GOM_TRA_1PNPDE20100617_205747_000000592090_00243_43383_9843.N1	17-JUN-2010 20:57:47	Twilight	58.500	53	43Bet And	2.0480	3300.0	117	43383	No
108	GOM_TRA_1PNPDE20100617_210120_000000502090_00243_43383_9844.N1	17-JUN-2010 21:01:20	Twilight	50.000	50	13Alp Ari	2.0070	4250.0	100	43383	No
109	GOM_TRA_1PNPDE20100617_211725_000000592090_00243_43383_9845.N1	17-JUN-2010 21:17:25	Dark	58.500	52	16Bet Cet	2.0370	4500.0	117	43383	No
110	GOM_TRA_1PNPDE20100617_212330_000000462090_00243_43383_9846.N1	17-JUN-2010 21:23:30	Dark	46.000	84	Alp Phe	2.3970	4500.0	92	43383	No
111	GOM_TRA_1PNPDE20100617_212948_000000512090_00244_43384_9847.N1	17-JUN-2010 21:29:48	Dark	50.500	63	Bet Gru	2.1500	2800.0	101	43384	No
112	GOM_TRA_1PNPDE20100617_213152_000000512090_00244_43384_9848.N1	17-JUN-2010 21:31:52	Straylight	50.500	31	Alp Gru	1.7340	15200.	101	43384	No
113	GOM_TRA_1PNPDE20100617_213532_000000412090_00244_43384_9849.N1	17-JUN-2010 21:35:32	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	43384	No
114	GOM_TRA_1PNPDE20100617_214516_000000442090_00244_43384_9850.N1	17-JUN-2010 21:45:16	Twilight	43.500	25	35Lam Sco	1.6200	28000.	87	43384	No
115	GOM_TRA_1PNPDE20100617_214639_000000452090_00244_43384_9851.N1	17-JUN-2010 21:46:39	Twilight	44.500	167	10Gam2Sgr	2.9840	4500.0	89	43384	No
116	GOM_TRA_1PNPDE20100617_215147_000000402090_00244_43384_9852.N1	17-JUN-2010 21:51:47	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	43384	No
117	GOM_TRA_1PNPDE20100617_215812_000000432090_00244_43384_9853.N1	17-JUN-2010 21:58:12	Bright	42.500	126	60Bet Oph	2.7700	4250.0	85	43384	No
118	GOM_TRA_1PNPDE20100617_220041_000000422090_00244_43384_9854.N1	17-JUN-2010 22:00:41	Bright	42.000	59	55Alp Oph	2.0800	8900.0	84	43384	No
119	GOM_TRA_1PNPDE20100617_220245_000000362090_00244_43384_9855.N1	17-JUN-2010 22:02:45	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	43384	No
120	GOM_TRA_1PNPDE20100617_220545_000000392090_00244_43384_9856.N1	17-JUN-2010 22:05:45	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	43384	No
121	GOM_TRA_1PNPDE20100617_221228_000000412090_00244_43384_9857.N1	17-JUN-2010 22:12:28	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	43384	No
122	GOM_TRA_1PNPDE20100617_221408_000000402090_00244_43384_9858.N1	17-JUN-2010 22:14:08	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	43384	No
123	GOM_TRA_1PNPDE20100617_222244_000000482090_00244_43384_9859.N1	17-JUN-2010 22:22:44	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	43384	No
124	GOM_TRA_1PNPDE20100617_222919_000000652090_00244_43384_9860.N1	17-JUN-2010 22:29:19	Bright	65.000	74	11Bet Cas	2.2680	6600.0	130	43384	No
125	GOM_TRA_1PNPDE20100617_223044_000000632090_00244_43384_9861.N1	17-JUN-2010 22:30:44	Bright	63.000	68	18Alp Cas	2.2250	4500.0	126	43384	No
126	GOM_TRA_1PNPDE20100617_223233_000000532090_00244_43384_9862.N1	17-JUN-2010 22:32:33	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	43384	No
127	GOM_TRA_1PNPDE20100617_223600_000000422090_00244_43384_9863.N1	17-JUN-2010 22:36:00	Bright	42.000	73	57Gam1And	2.2600	13100.	84	43384	No
128	GOM_TRA_1PNPDE20100617_223822_000000682090_00244_43384_9864.N1	17-JUN-2010 22:38:22	Twilight	67.500	53	43Bet And	2.0480	3300.0	135	43384	No
129	GOM_TRA_1PNPDE20100617_224156_000000492090_00244_43384_9865.N1	17-JUN-2010 22:41:56	Twilight	48.500	50	13Alp Ari	2.0070	4250.0	97	43384	No
130	GOM_TRA_1PNPDE20100617_225801_000000522090_00244_43384_9866.N1	17-JUN-2010 22:58:01	Dark	51.500	52	16Bet Cet	2.0370	4500.0	103	43384	No
131	GOM_TRA_1PNPDE20100617_230407_000000512090_00244_43384_9867.N1	17-JUN-2010 23:04:07	Dark	51.000	84	Alp Phe	2.3970	4500.0	102	43384	No
132	GOM_TRA_1PNPDE20100617_231025_000000492090_00245_43385_9868.N1	17-JUN-2010 23:10:25	Dark	48.500	63	Bet Gru	2.1500	2800.0	97	43385	No
133	GOM_TRA_1PNPDE20100617_231228_000000492090_00245_43385_9869.N1	17-JUN-2010 23:12:28	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	43385	No
134	GOM_TRA_1PNPDE20100617_231608_000000432090_00245_43385_9870.N1	17-JUN-2010 23:16:08	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	43385	No
135	GOM_TRA_1PNPDE20100617_232552_000000442090_00245_43385_9871.N1	17-JUN-2010 23:25:52	Twilight	43.500	25	35Lam Sco	1.6200	28000.	87	43385	No
136	GOM_TRA_1PNPDE20100617_232715_000000462090_00245_43385_9872.N1	17-JUN-2010 23:27:15	Twilight	45.500	167	10Gam2Sgr	2.9840	4500.0	91	43385	No
137	GOM_TRA_1PNPDE20100617_233223_000000402090_00245_43385_9873.N1	17-JUN-2010 23:32:23	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	43385	No
138	GOM_TRA_1PNPDE20100617_233847_000000432090_00245_43385_9874.N1	17-JUN-2010 23:38:47	Bright	42.500	126	60Bet Oph	2.7700	4250.0	85	43385	No
139	GOM_TRA_1PNPDE20100617_234117_000000432090_00245_43385_9875.N1	17-JUN-2010 23:41:17	Bright	42.500	59	55Alp Oph	2.0800	8900.0	85	43385	No
140	GOM_TRA_1PNPDE20100617_234321_000000392090_00245_43385_9876.N1	17-JUN-2010 23:43:21	Bright	38.500	127	27Bet Her	2.7810	4700.0	77	43385	No
141	GOM_TRA_1PNPDE20100617_234620_000000392090_00245_43385_9877.N1	17-JUN-2010 23:46:20	Bright	38.500	133	40Zet Her	2.8070	6000.0	77	43385	No
142	GOM_TRA_1PNPDE20100617_235304_000000412090_00245_43385_9878.N1	17-JUN-2010 23:53:04	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	43385	No
143	GOM_TRA_1PNPDE20100617_235444_000000382090_00245_43385_9879.N1	17-JUN-2010 23:54:44	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	43385	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).

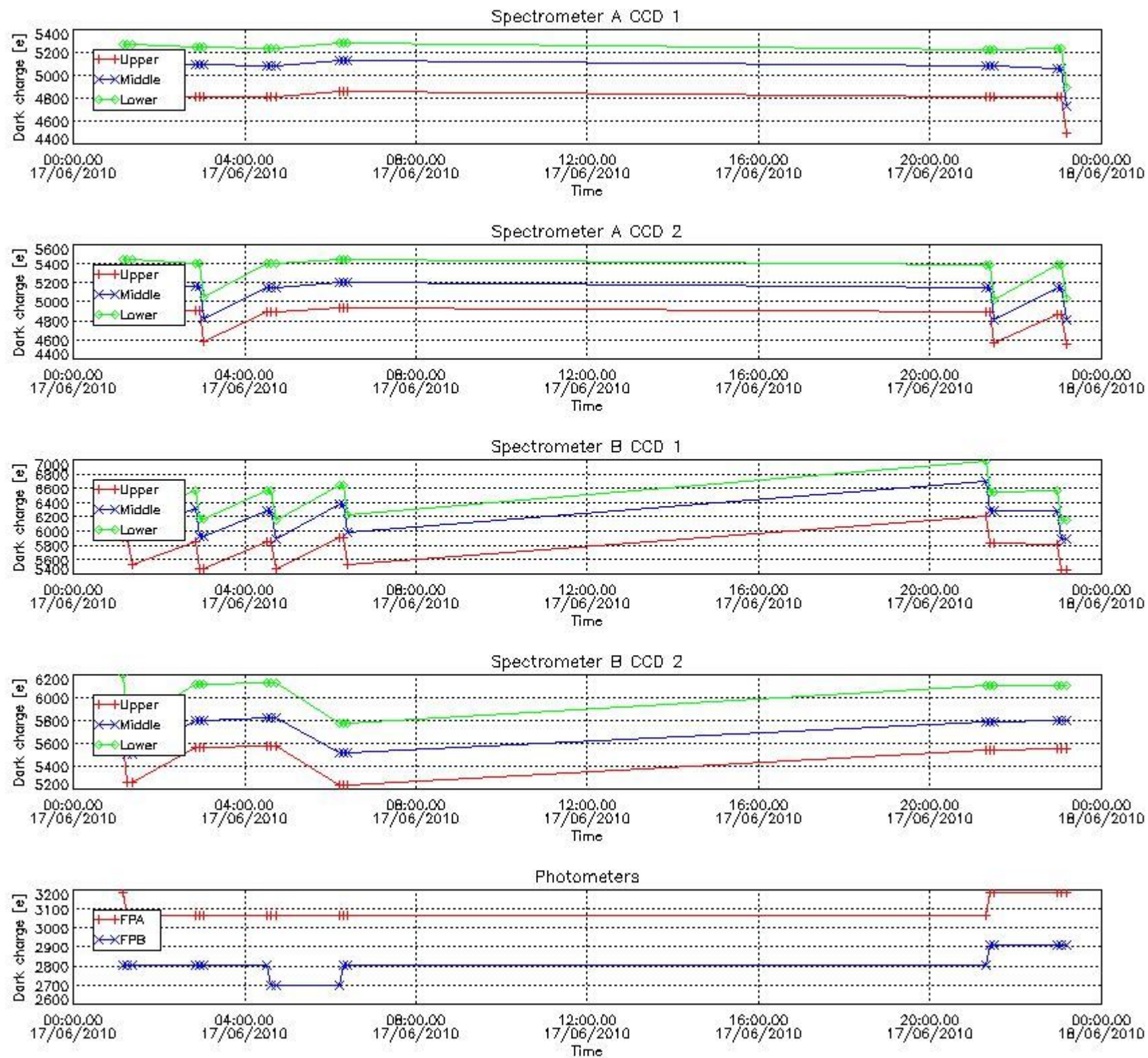
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20100617_200440_000000452090_00243_43383_9829.N1	DC map used
GOM_TRA_1PNPDE20100617_200603_000000502090_00243_43383_9830.N1	DC map used
GOM_TRA_1PNPDE20100617_201111_000000412090_00243_43383_9831.N1	DC map used
GOM_TRA_1PNPDE20100617_201736_000000442090_00243_43383_9832.N1	DC map used
GOM_TRA_1PNPDE20100617_202005_000000422090_00243_43383_9833.N1	DC map used
GOM_TRA_1PNPDE20100617_202209_000000362090_00243_43383_9834.N1	DC map used
GOM_TRA_1PNPDE20100617_202509_000000382090_00243_43383_9835.N1	DC map used
GOM_TRA_1PNPDE20100617_203152_000000412090_00243_43383_9836.N1	DC map used
GOM_TRA_1PNPDE20100617_203332_000000412090_00243_43383_9837.N1	DC map used
GOM_TRA_1PNPDE20100617_204209_000000482090_00243_43383_9838.N1	DC map used
GOM_TRA_1PNPDE20100617_204843_000000422090_00243_43383_9839.N1	DC map used
GOM_TRA_1PNPDE20100617_205008_000000452090_00243_43383_9840.N1	DC map used
GOM_TRA_1PNPDE20100617_205157_000000532090_00243_43383_9841.N1	DC map used
GOM_TRA_1PNPDE20100617_205524_000000432090_00243_43383_9842.N1	DC map used

GOM_TRA_1PNPDE20100617_205747_000000592090_00243_43383_9843.N1	DC map used
GOM_TRA_1PNPDE20100617_210120_000000502090_00243_43383_9844.N1	DC map used

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



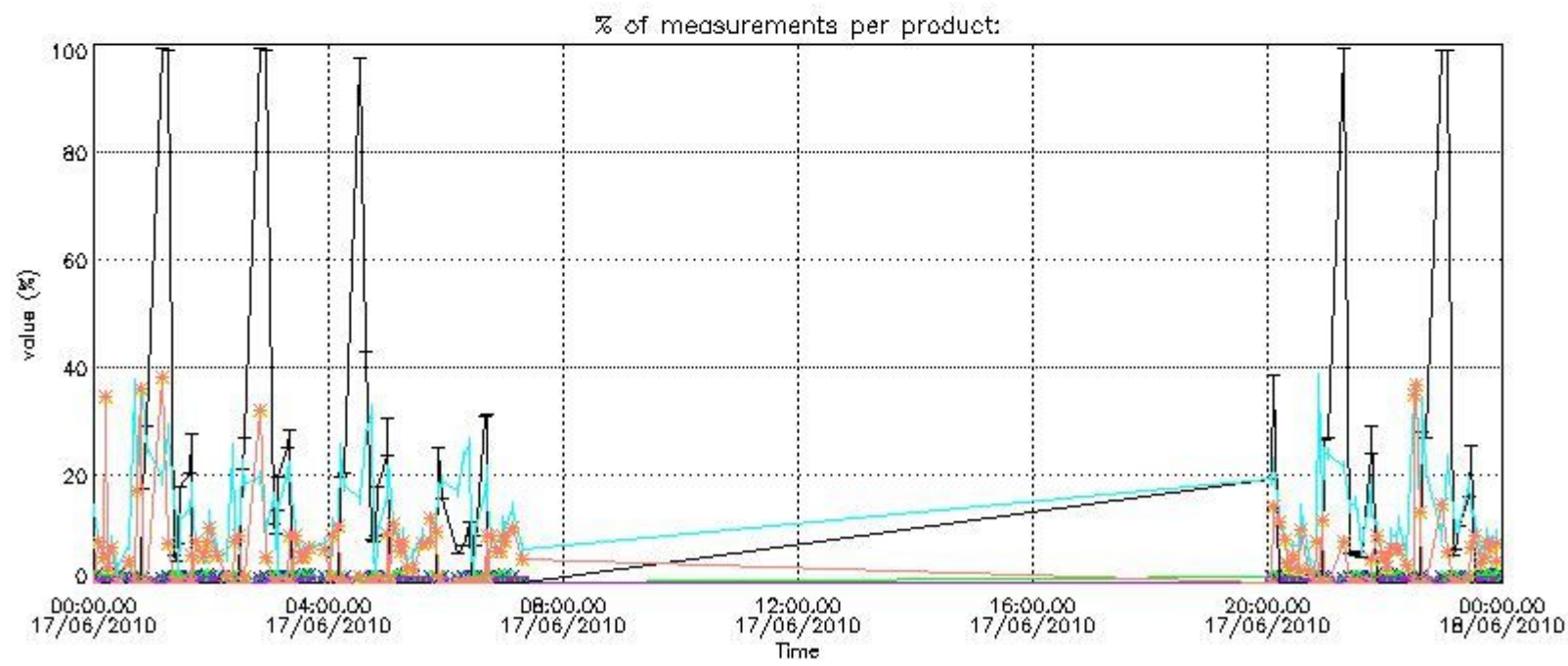
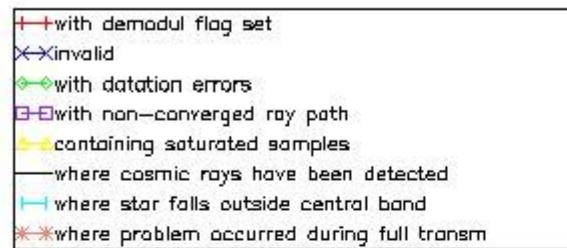
5. Demodulation flag and quality information monitoring

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.

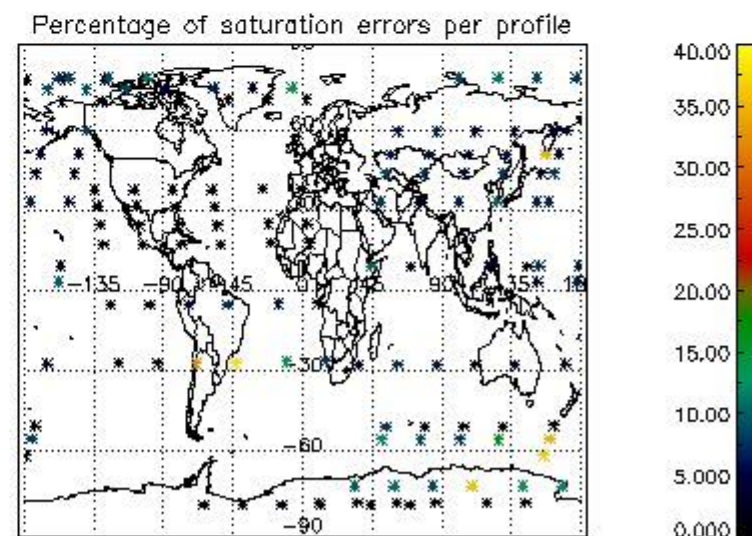
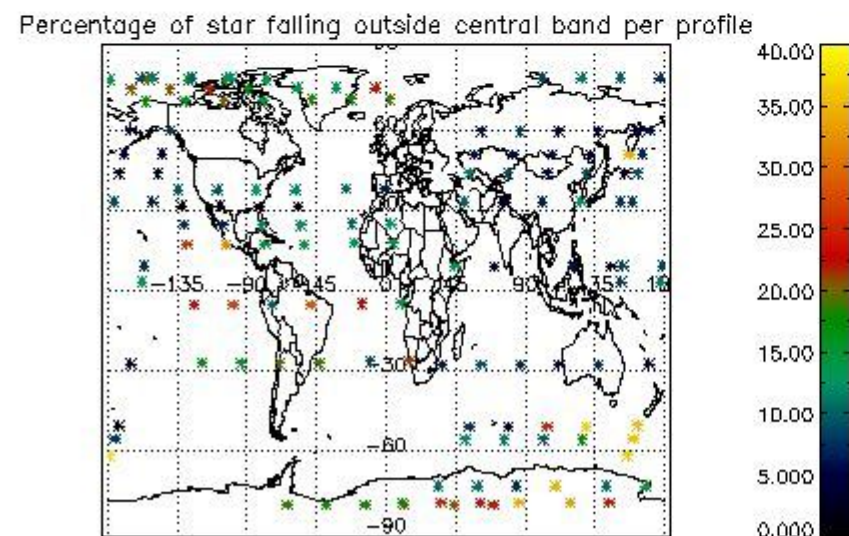
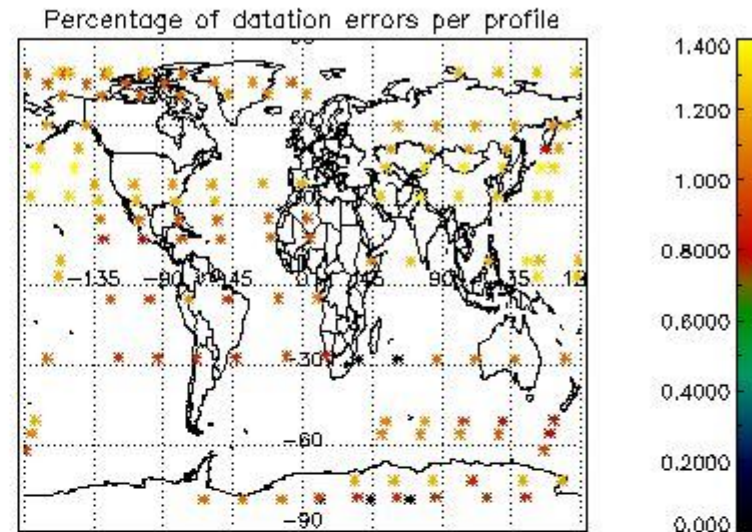
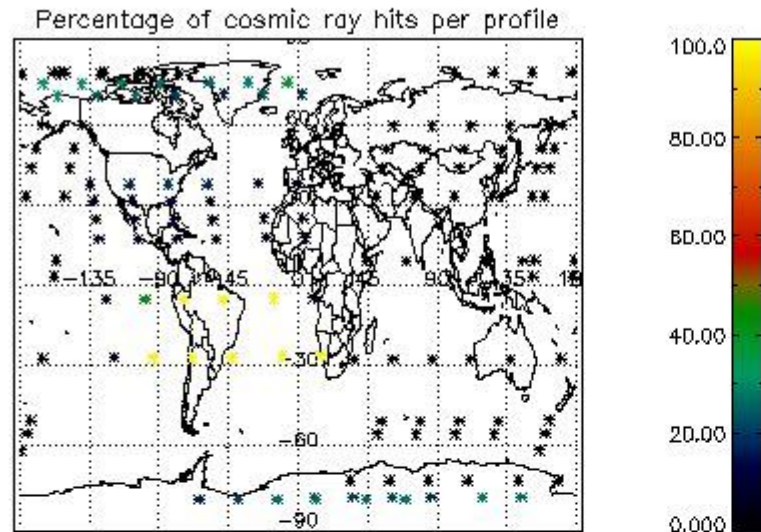
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	37.3239 %
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)



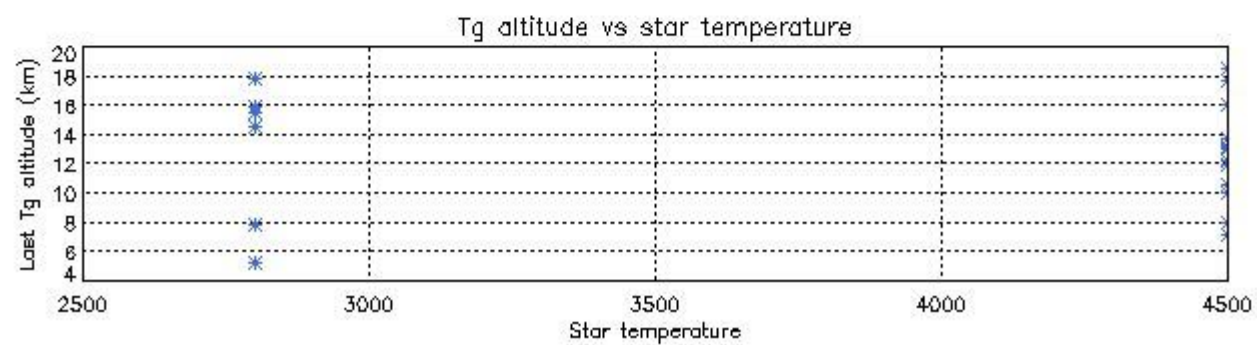
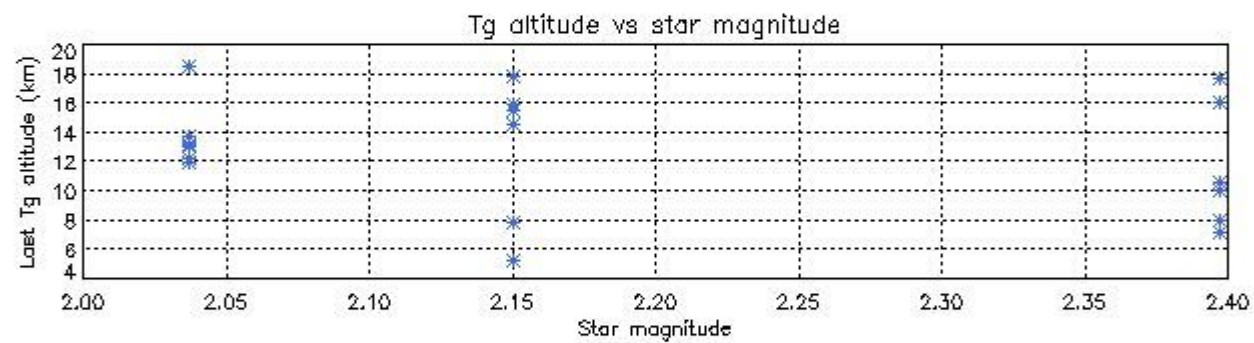
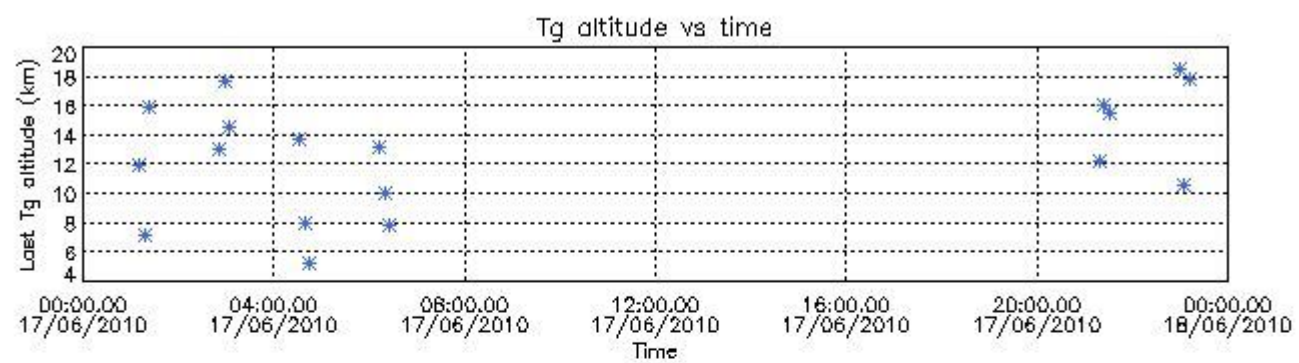
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.685	17.925	10.970
St. deviation:	3.9433	5.0897	0.96598
Maximum:	18.468	26.676	12.171
Minimum:	5.1807	3.8144	9.6697
Number of data:	18.000	82.000	6.0000

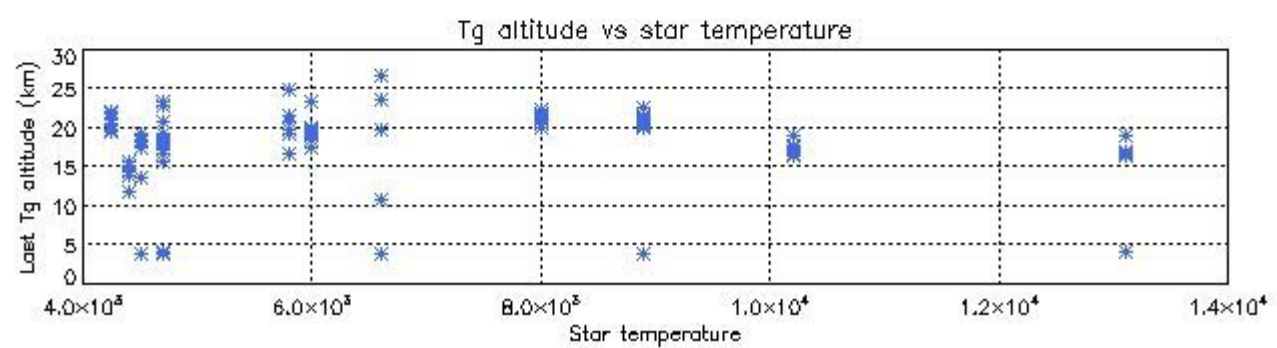
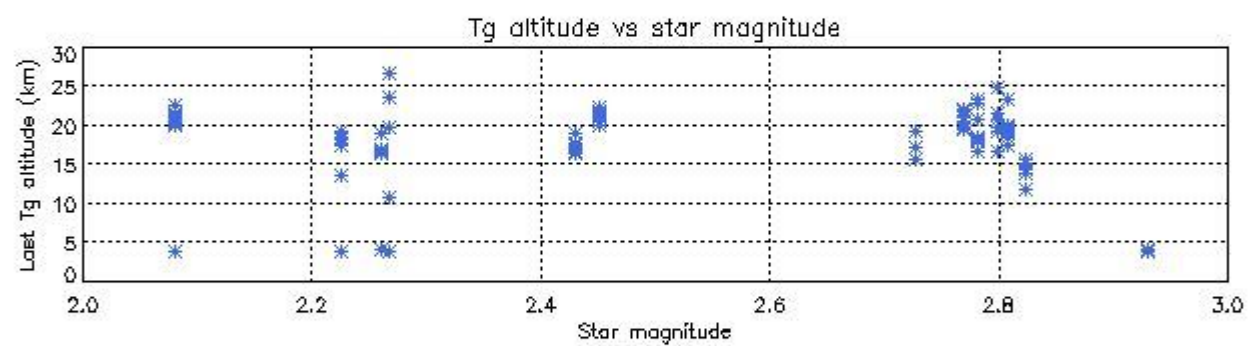
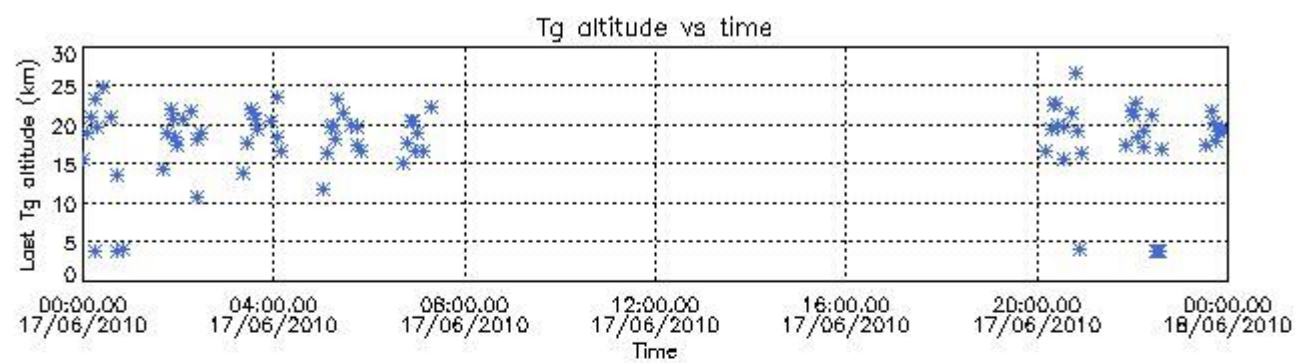
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



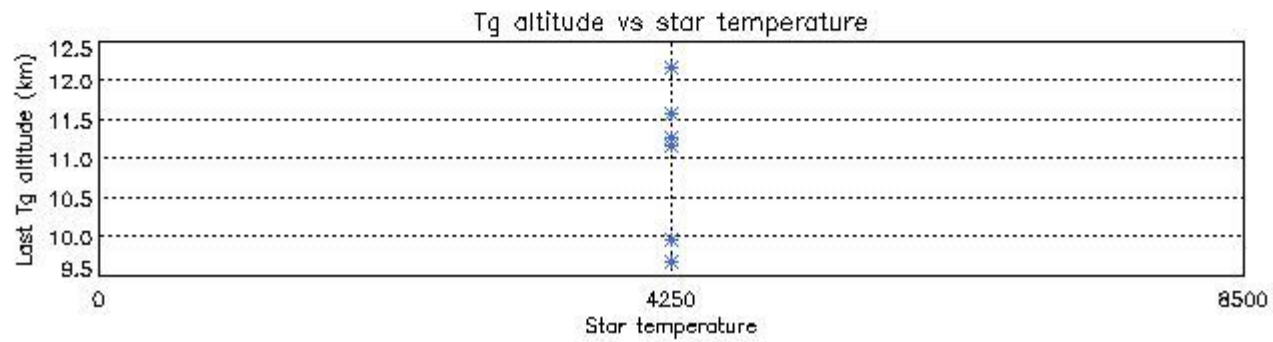
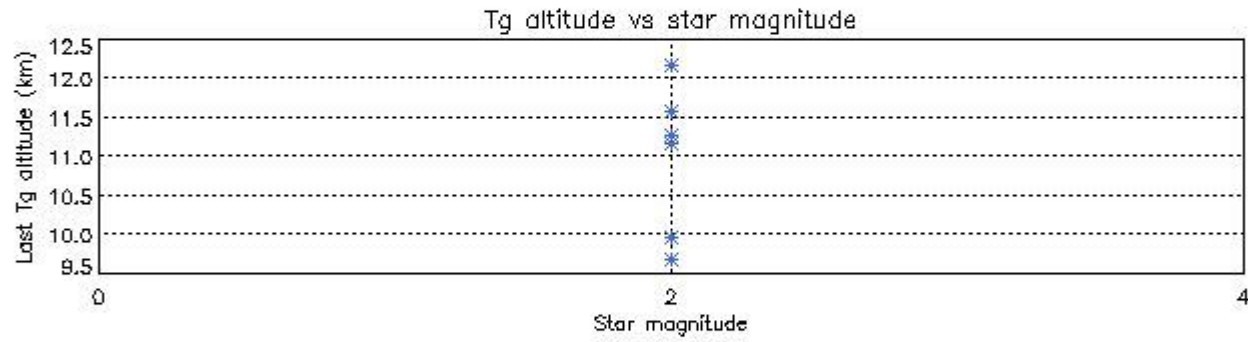
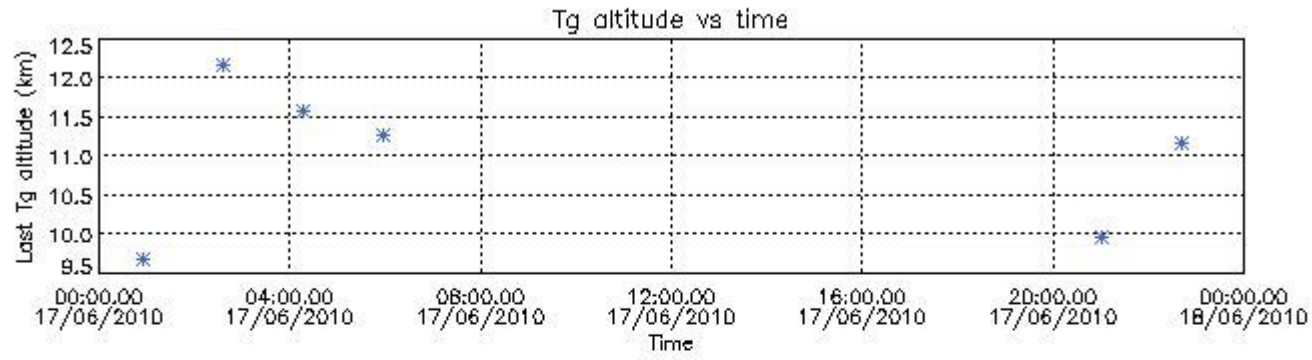
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

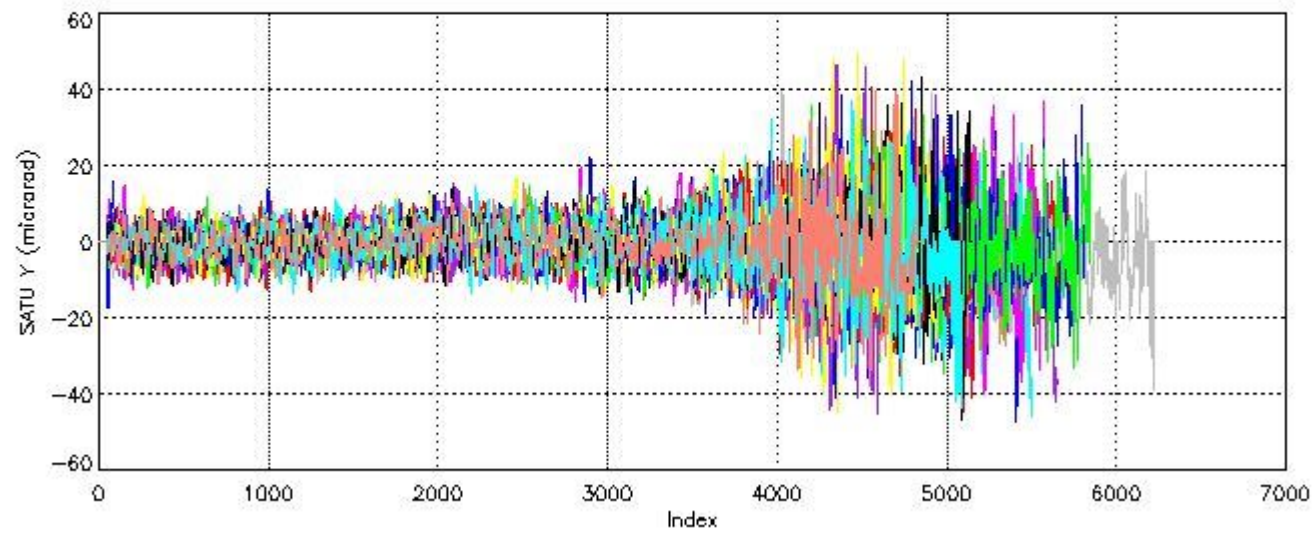
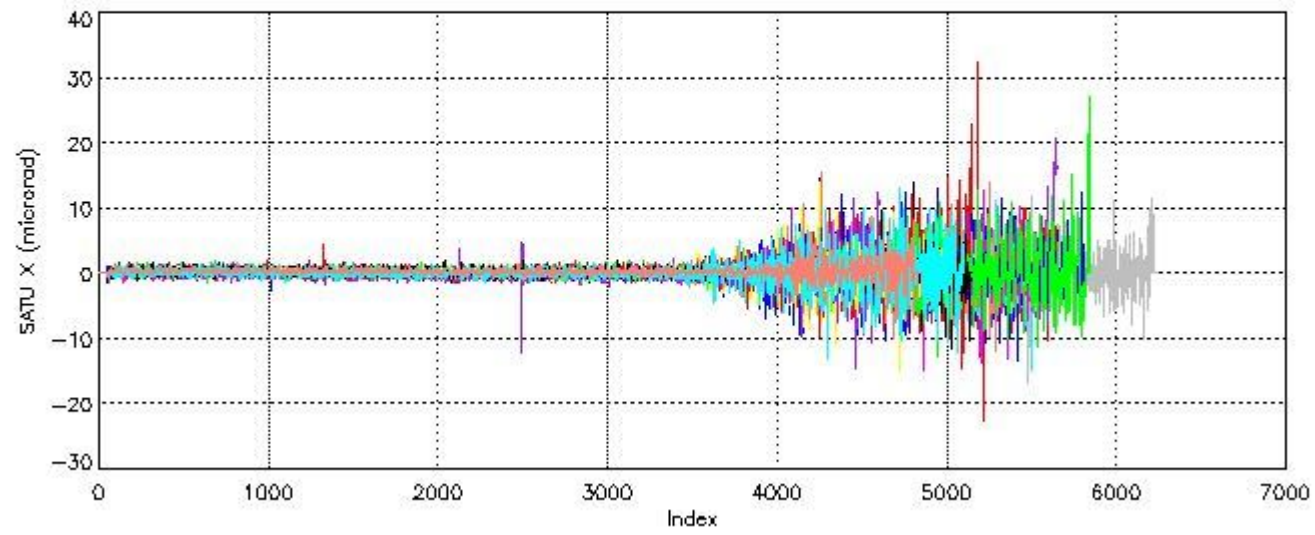


7. Star Acquisition and Tracking Unit (SATU)

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:	0.19943	-0.63622	0.22680	-0.64647
St. deviation:	0.34845	3.6657	0.75620	3.5073
Maximum:	1.9000	15.600	3.9000	15.000
Minimum:	-1.6000	-17.300	-3.6000	-18.100

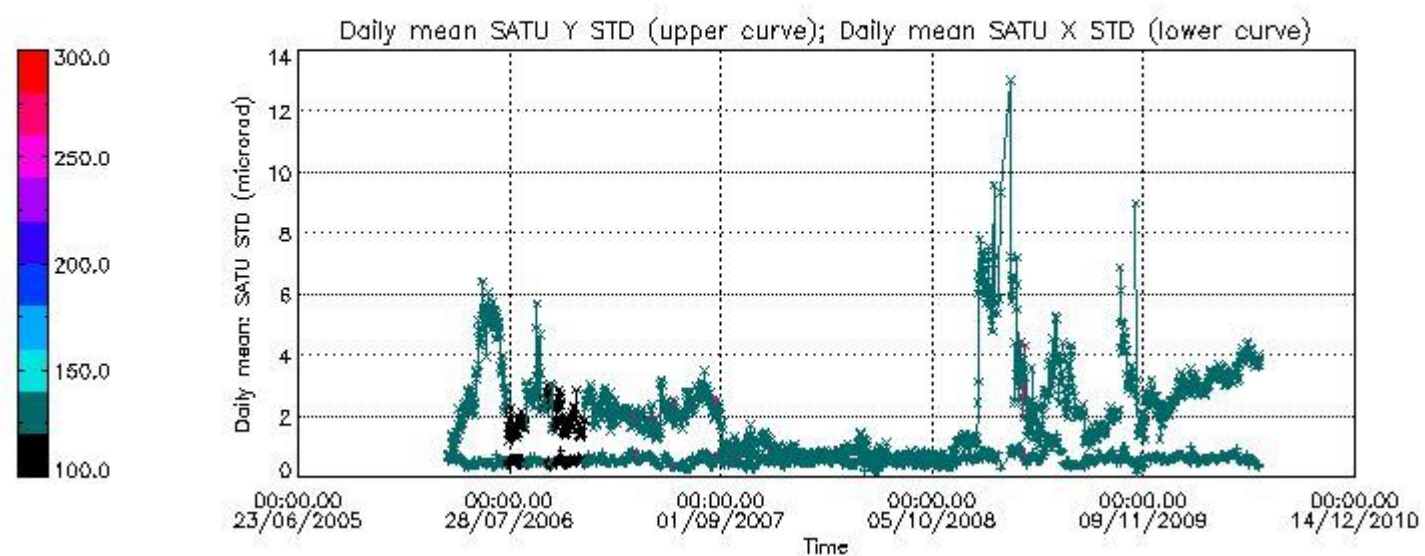
Number of data:	19900.	19900.	81300.	81300.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

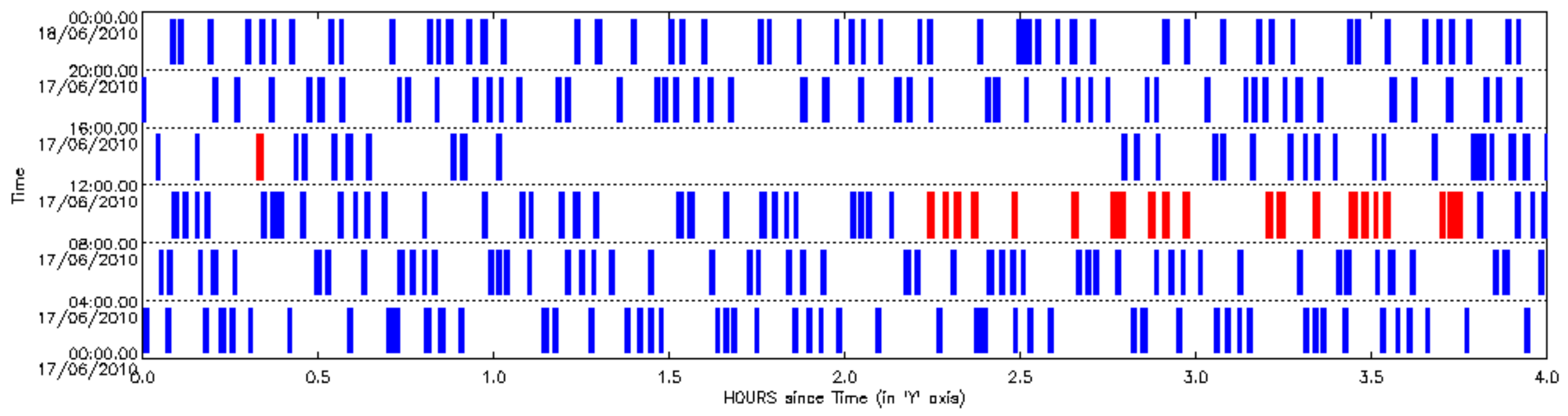
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

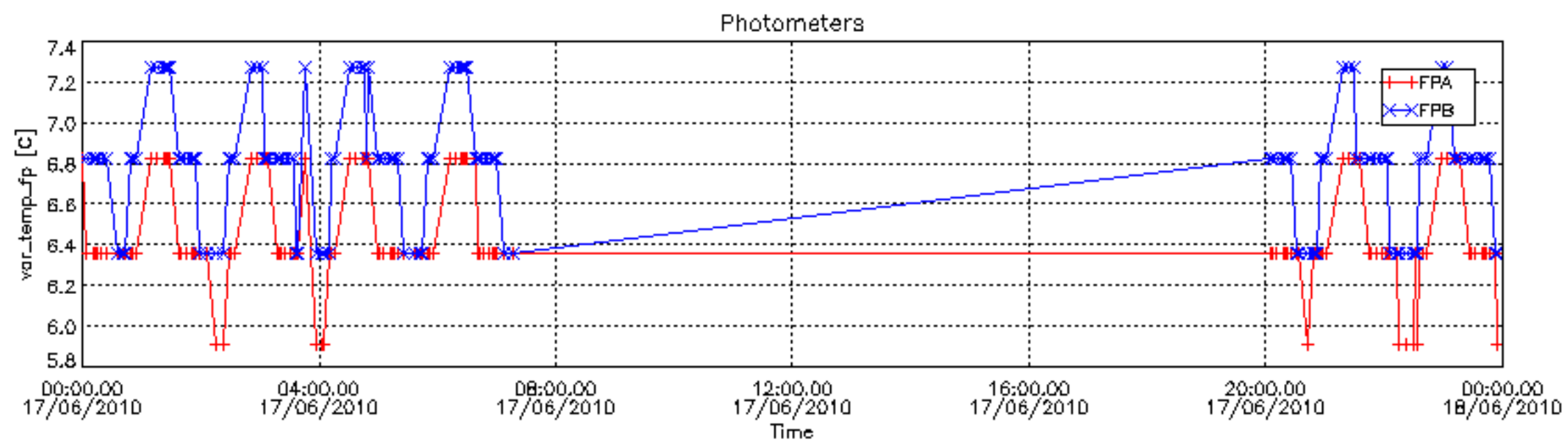
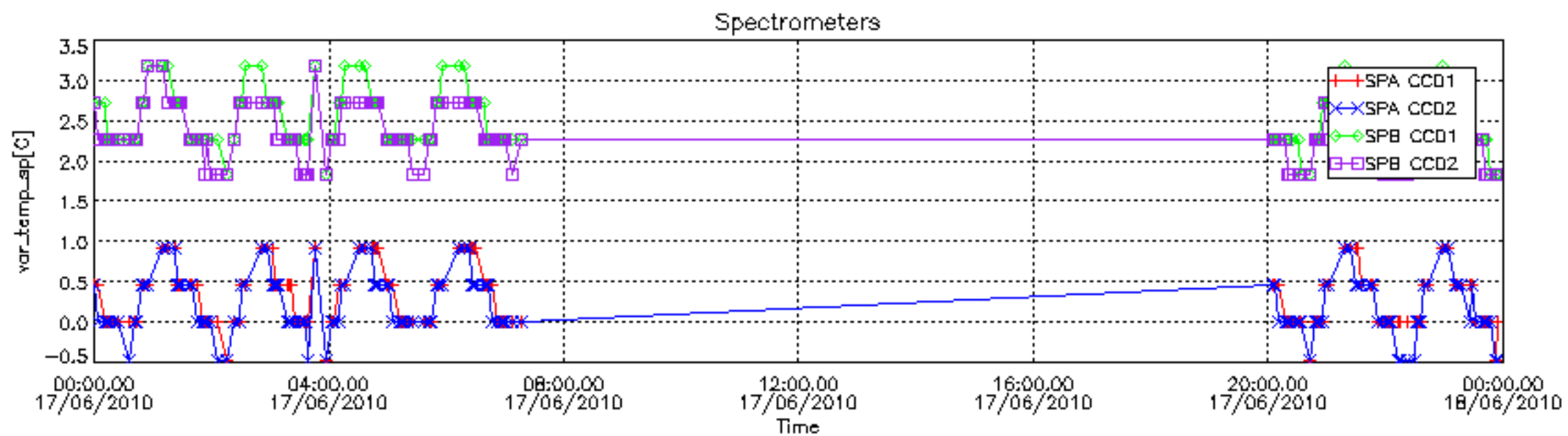


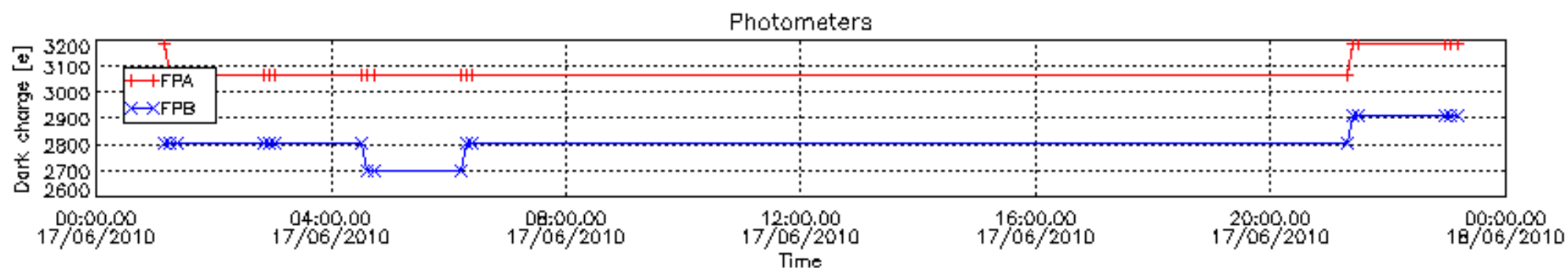
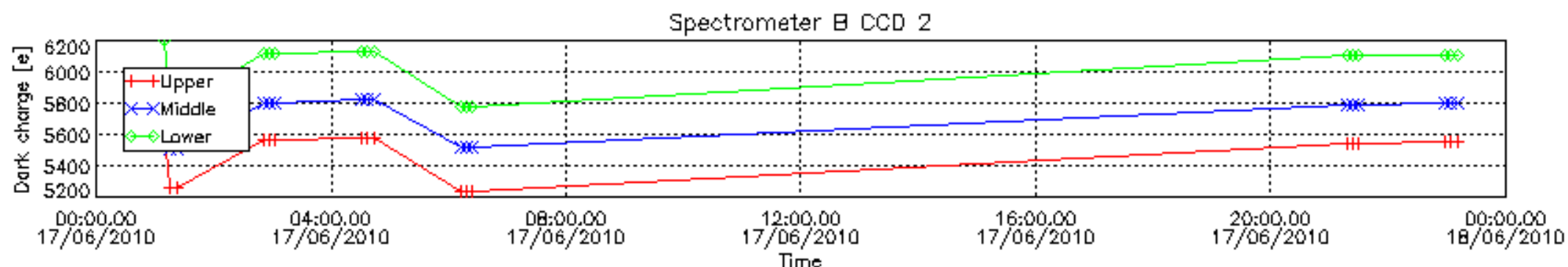
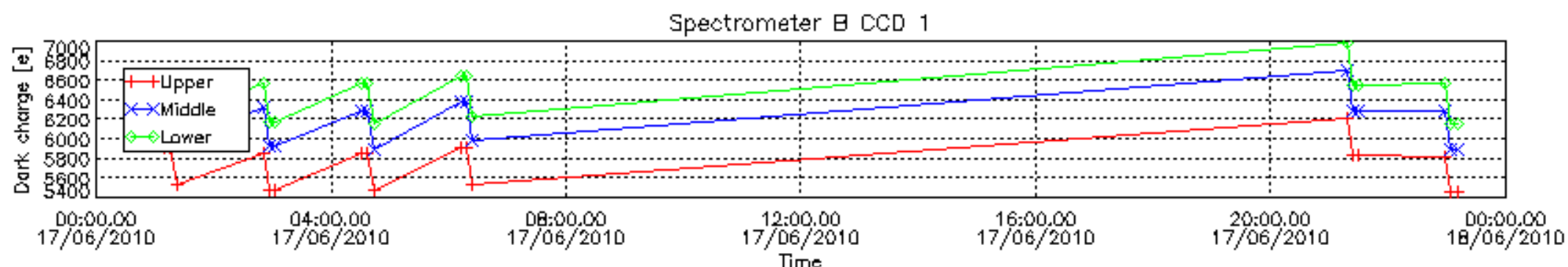
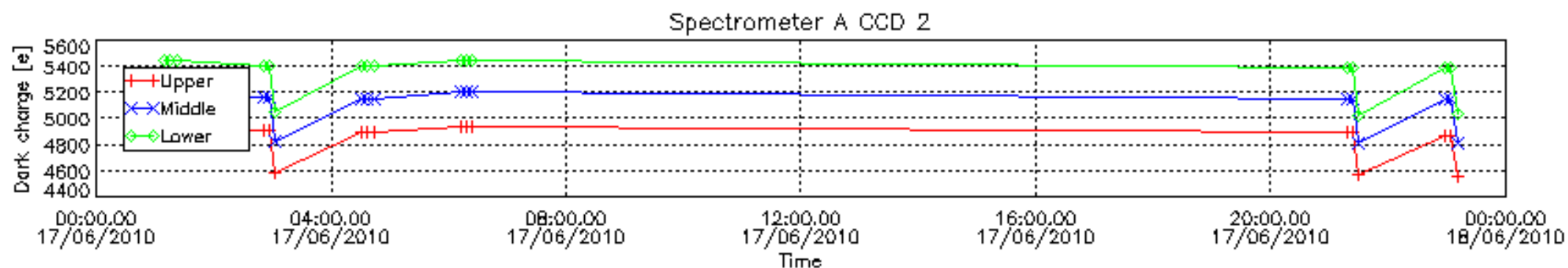
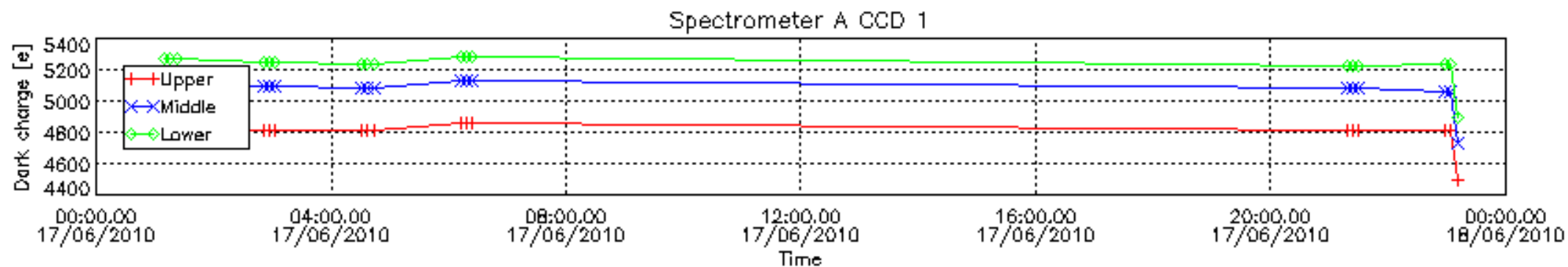
8. Auxiliary Data Files used for the production reported in section 2.4

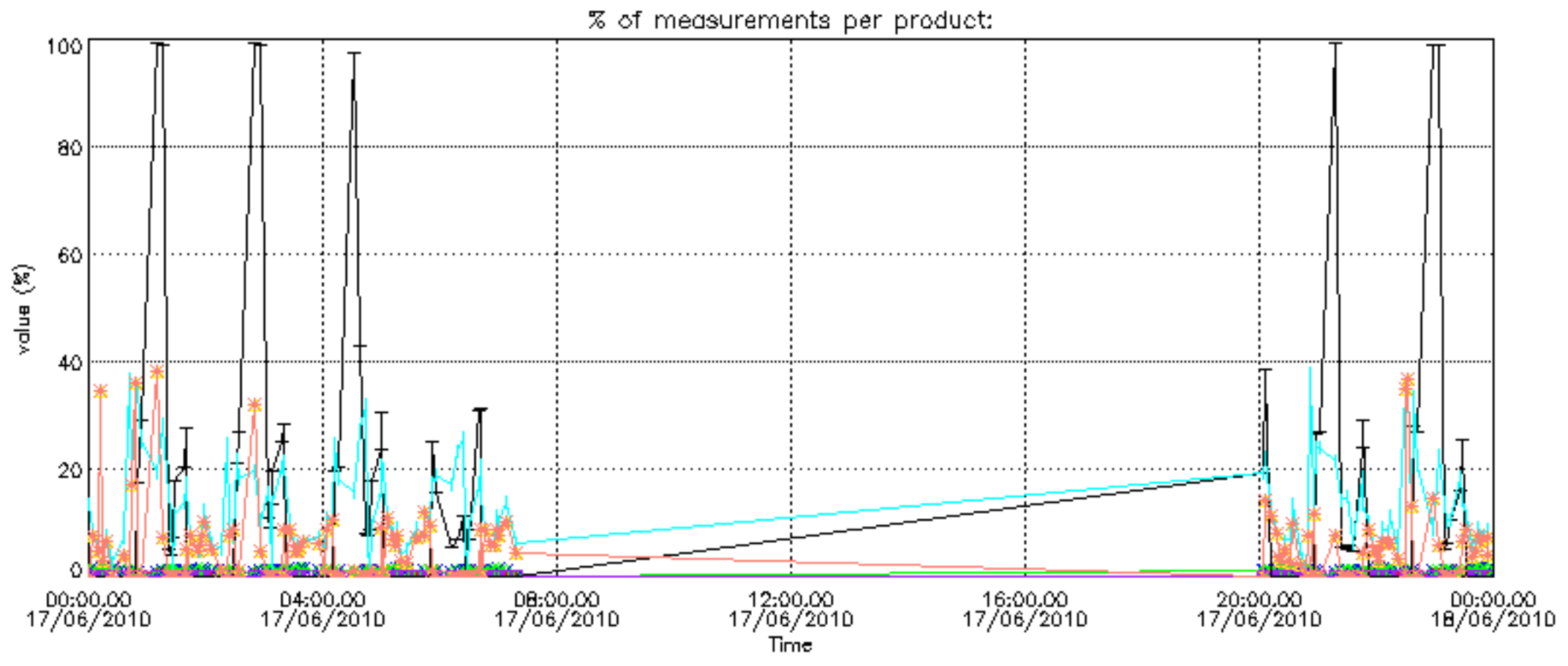
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	17-JUN-2010 00:00:02
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100615_083814_20100613_000000_20500101_000000	1	17-JUN-2010 00:00:02
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	17-JUN-2010 00:00:02
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-JUN-2010 00:00:02
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	17-JUN-2010 00:00:02
ECMWF_FILE	AUX_ECF_AXNECM20100616_054112_20100616_210000_20100617_090000	1	17-JUN-2010 00:00:02
ECMWF_FILE	AUX_ECA_AXNECM20100617_052115_20100616_210000_20100617_090000	49	17-JUN-2010 03:45:57
ECMWF_FILE	AUX_ECF_AXNECM20100617_052115_20100617_150000_20100618_030000	93	17-JUN-2010 20:04:40
ECMWF_FILE	AUX_ECF_AXNECM20100617_054113_20100617_210000_20100618_090000	109	17-JUN-2010 21:17:25
OPTIONAL_ECMWF_FILE	MISSING	1	17-JUN-2010 00:00:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100616_232321_000057382090_00230_43370_0566.N1	1	17-JUN-2010 00:00:02
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100616_092112_20100615_190652_20100625_203306	14	17-JUN-2010 01:10:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100617_034342_000066952090_00233_43373_0568.N1	49	17-JUN-2010 03:45:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100617_054035_000054192090_00234_43374_0569.N1	72	17-JUN-2010 05:43:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100617_195601_000038252090_00243_43383_0570.N1	93	17-JUN-2010 20:04:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100617_210505_000060572090_00243_43383_0571.N1	109	17-JUN-2010 21:17:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100617_225121_000057382090_00244_43384_0572.N1	130	17-JUN-2010 22:58:01

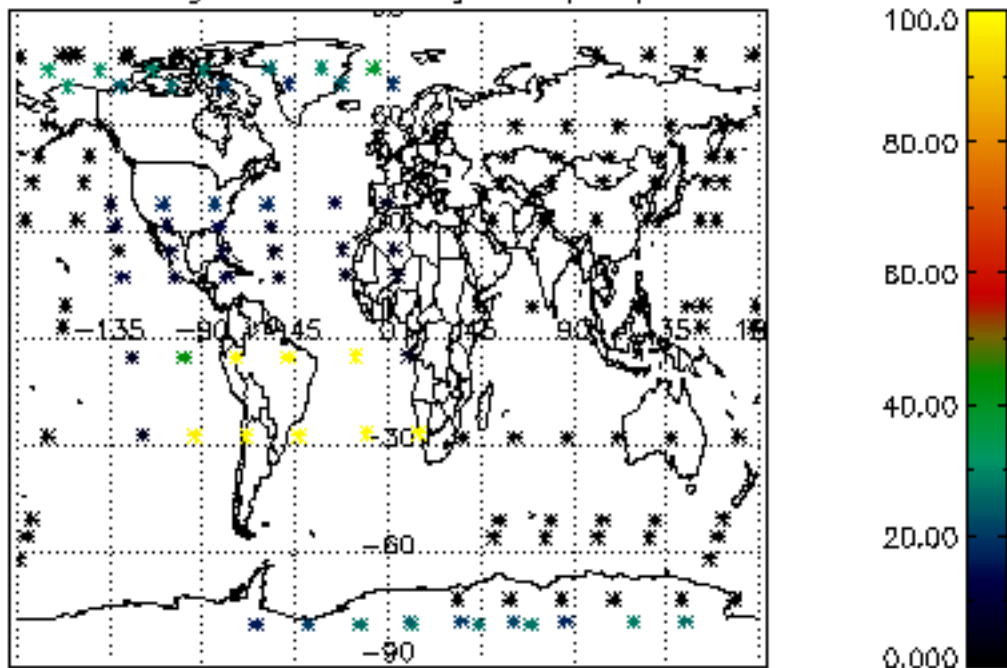




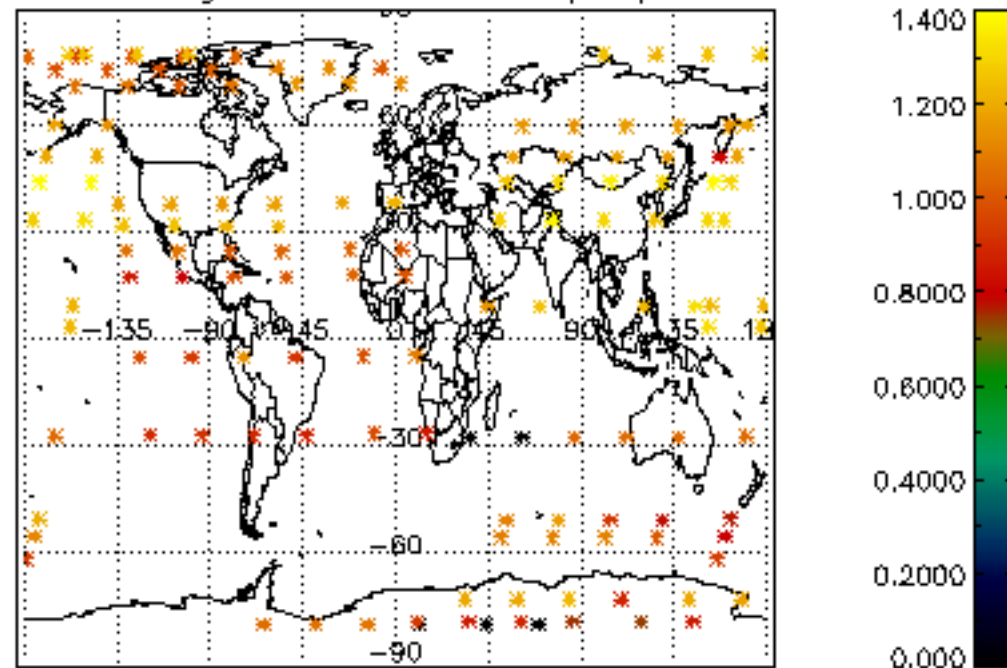




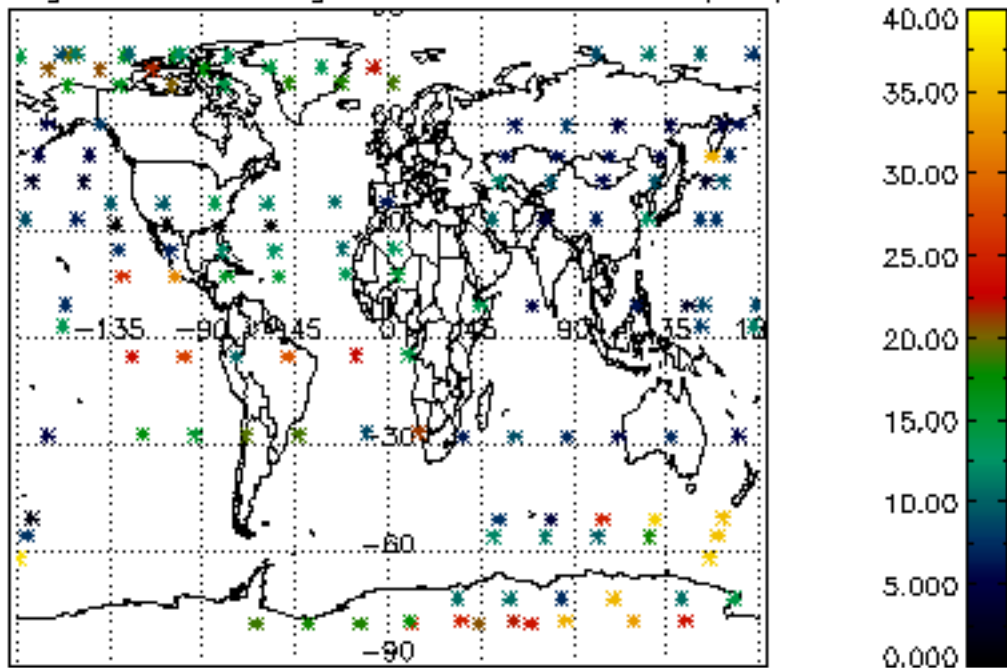
Percentage of cosmic ray hits per profile



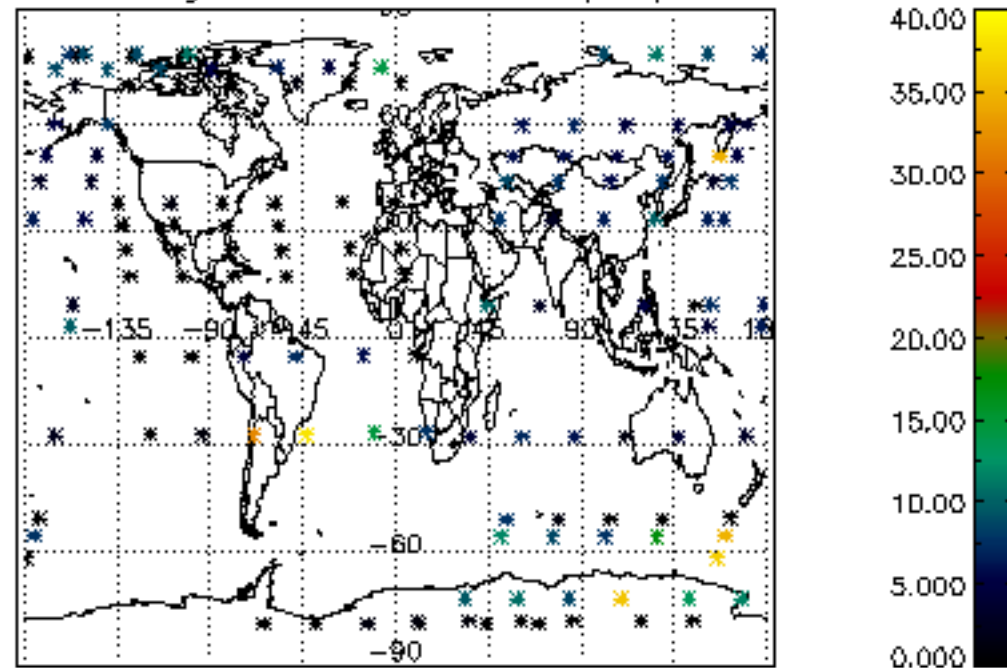
Percentage of datation errors per profile



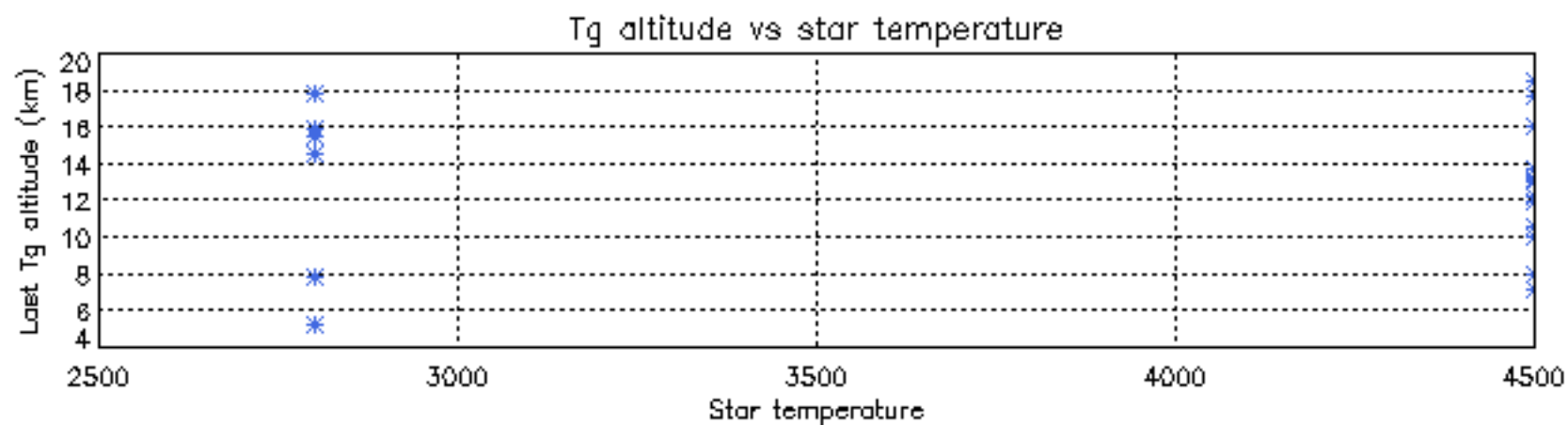
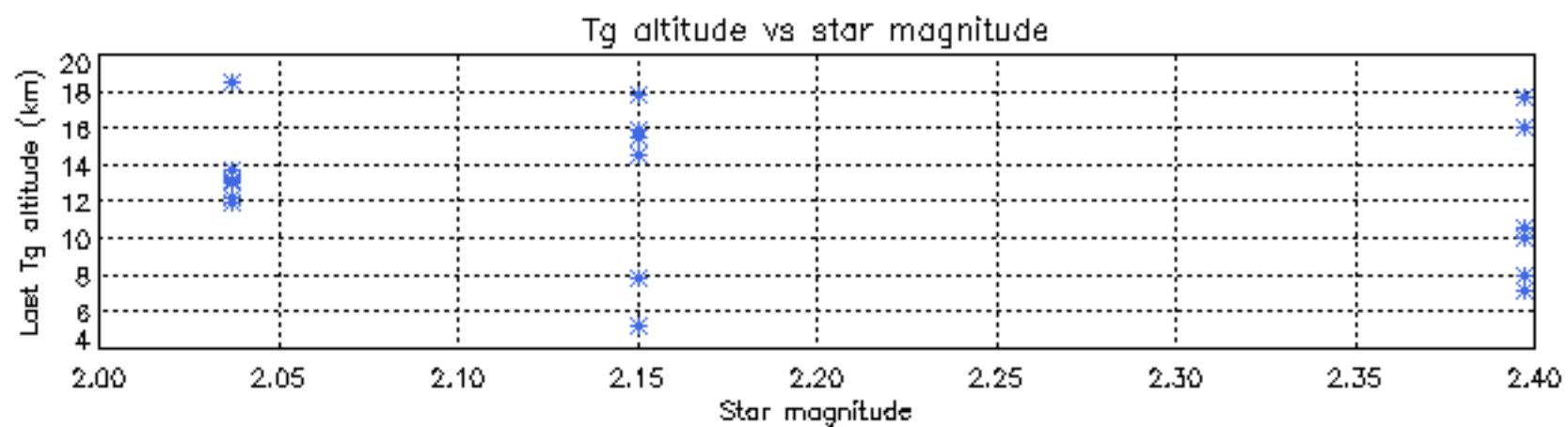
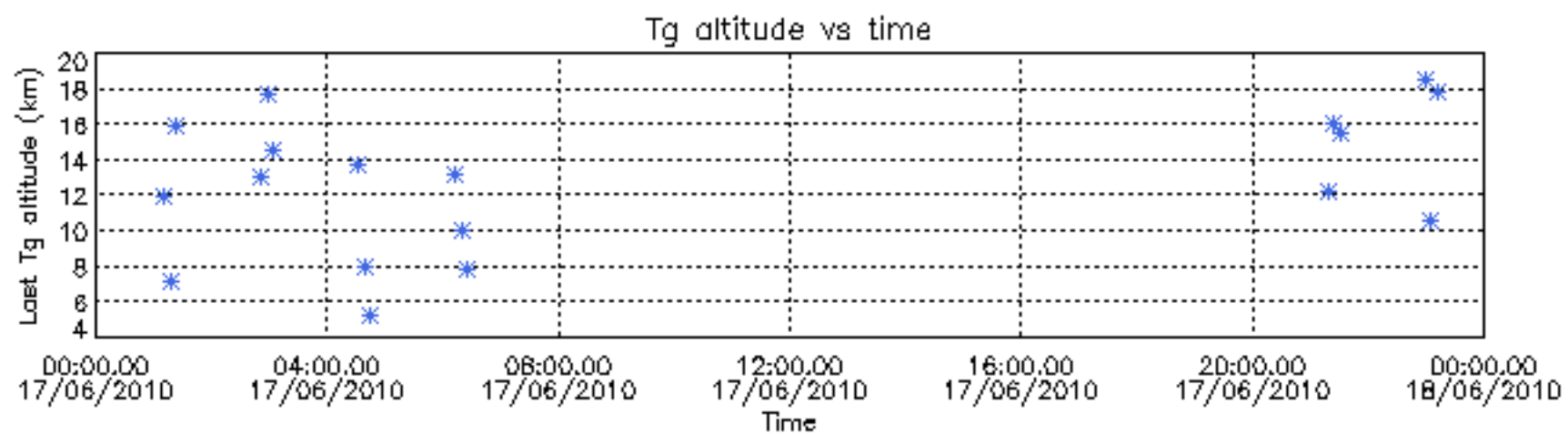
Percentage of star falling outside central band per profile



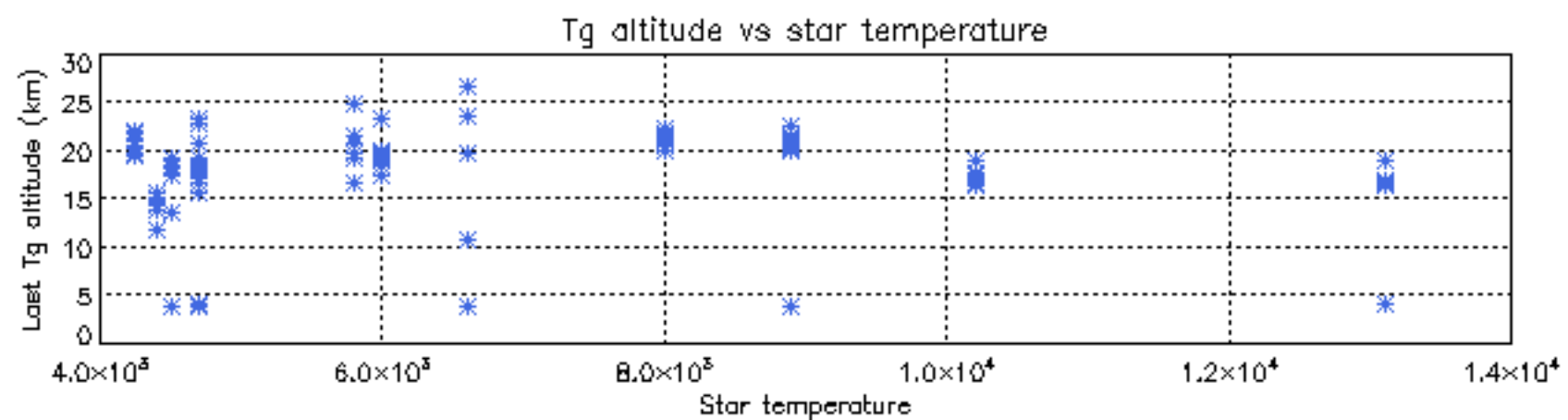
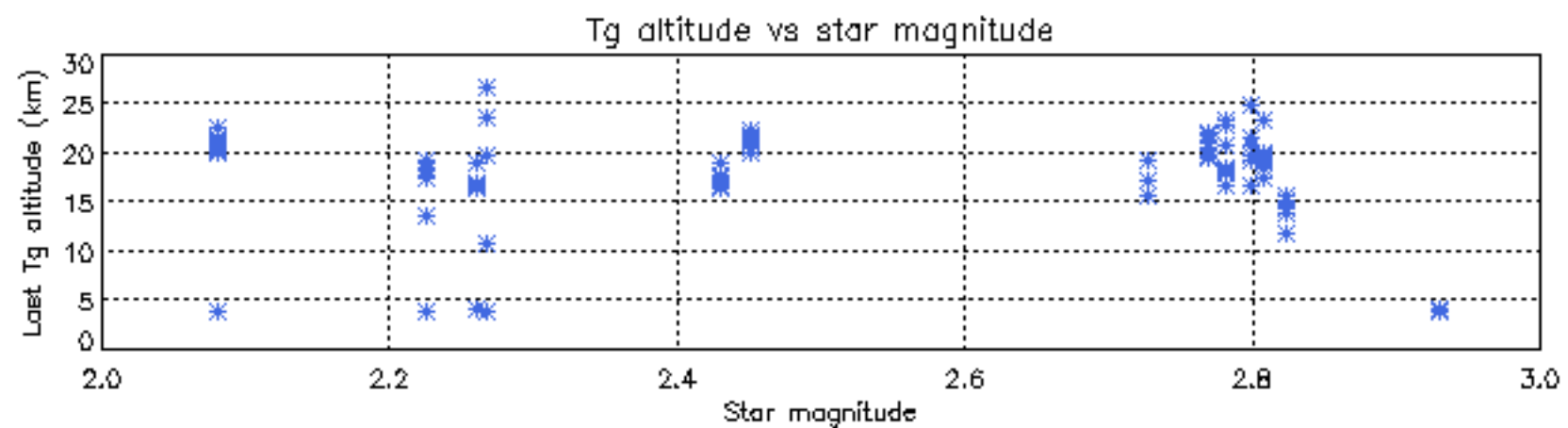
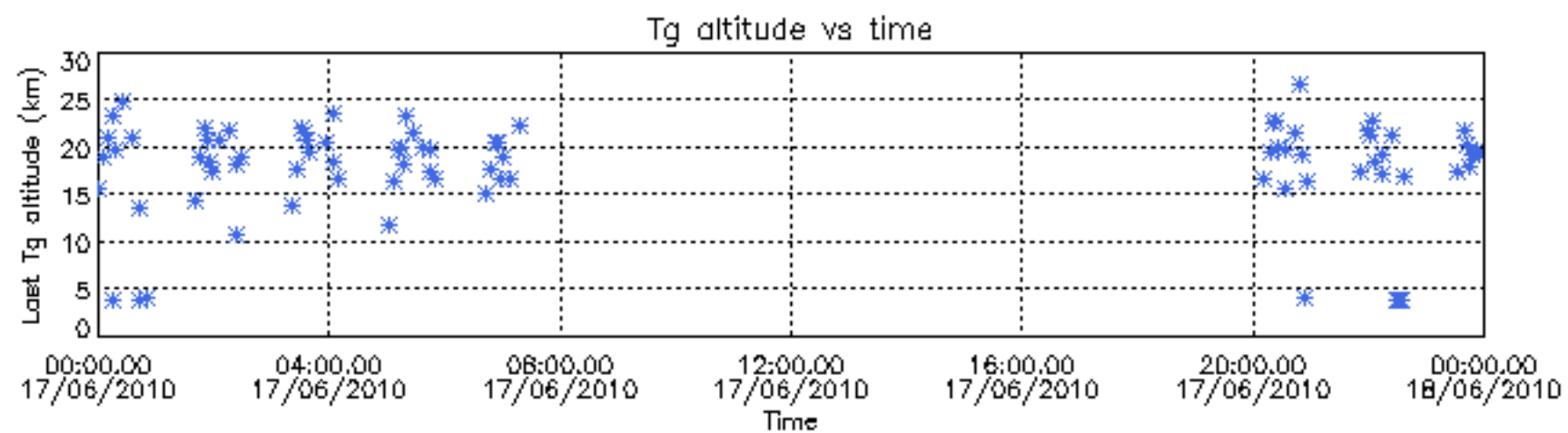
Percentage of saturation errors per profile



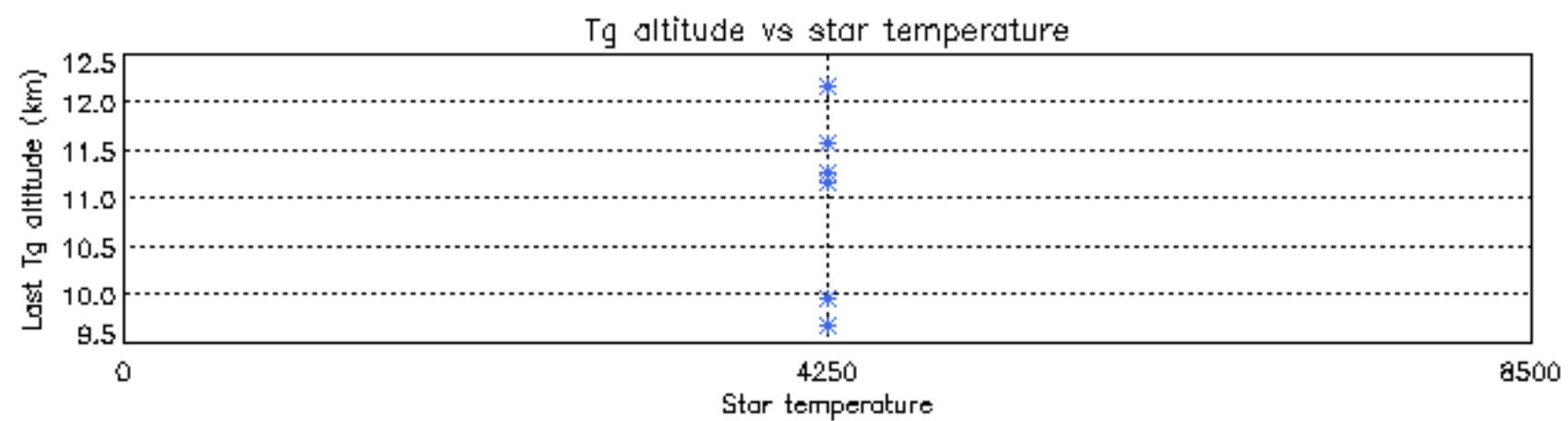
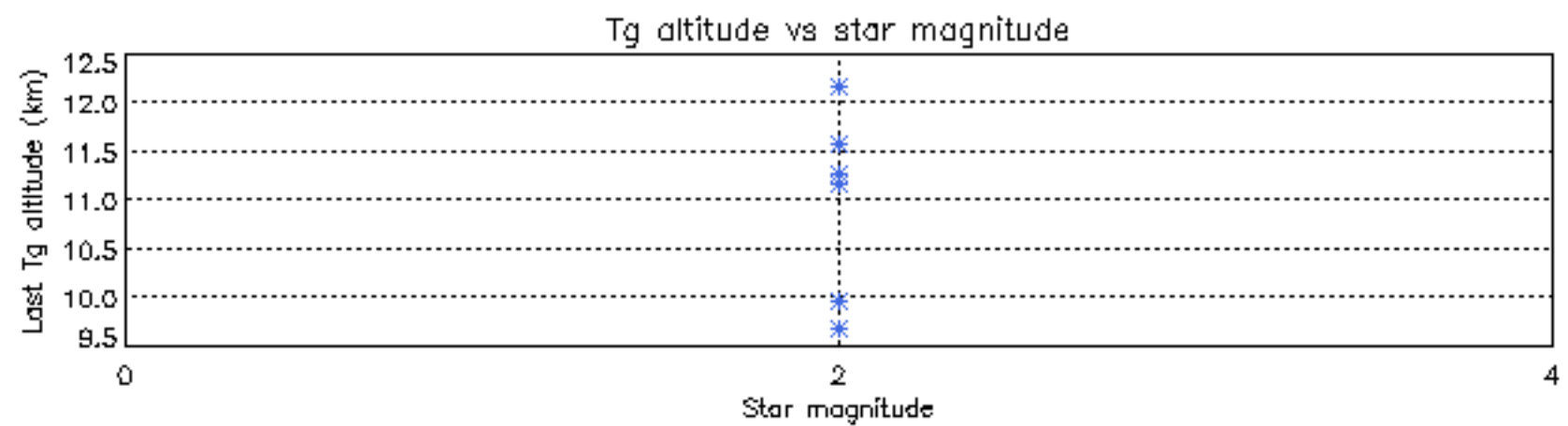
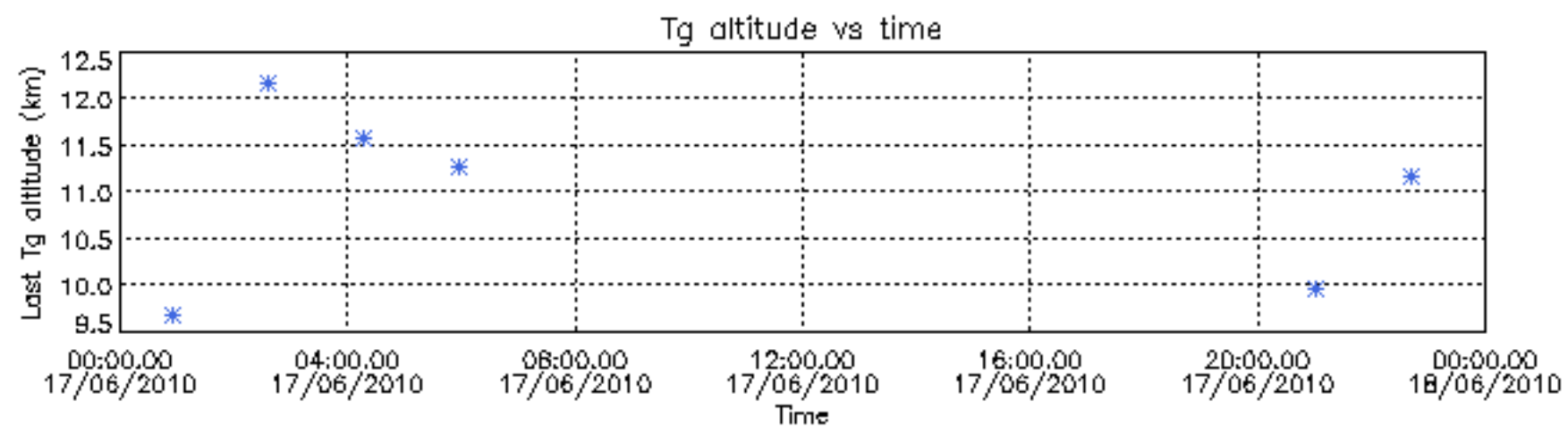
Tangent altitude at which the star is lost

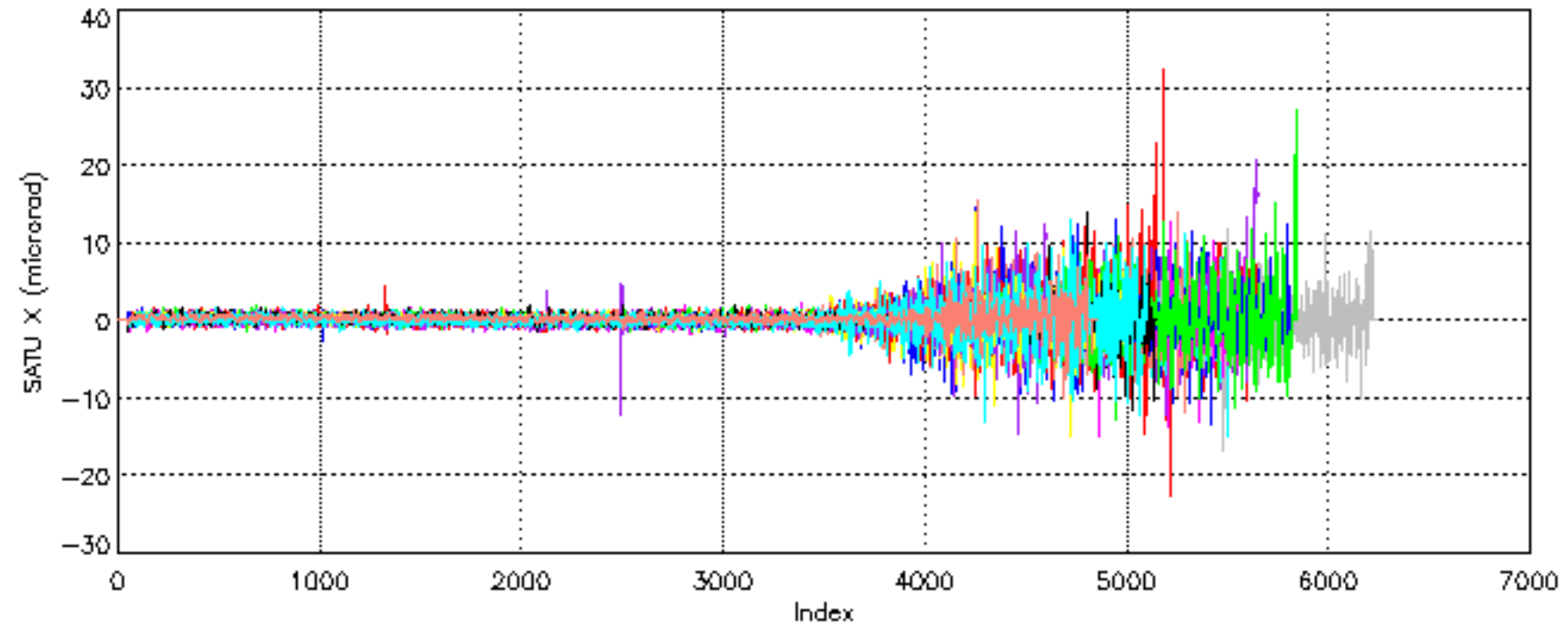


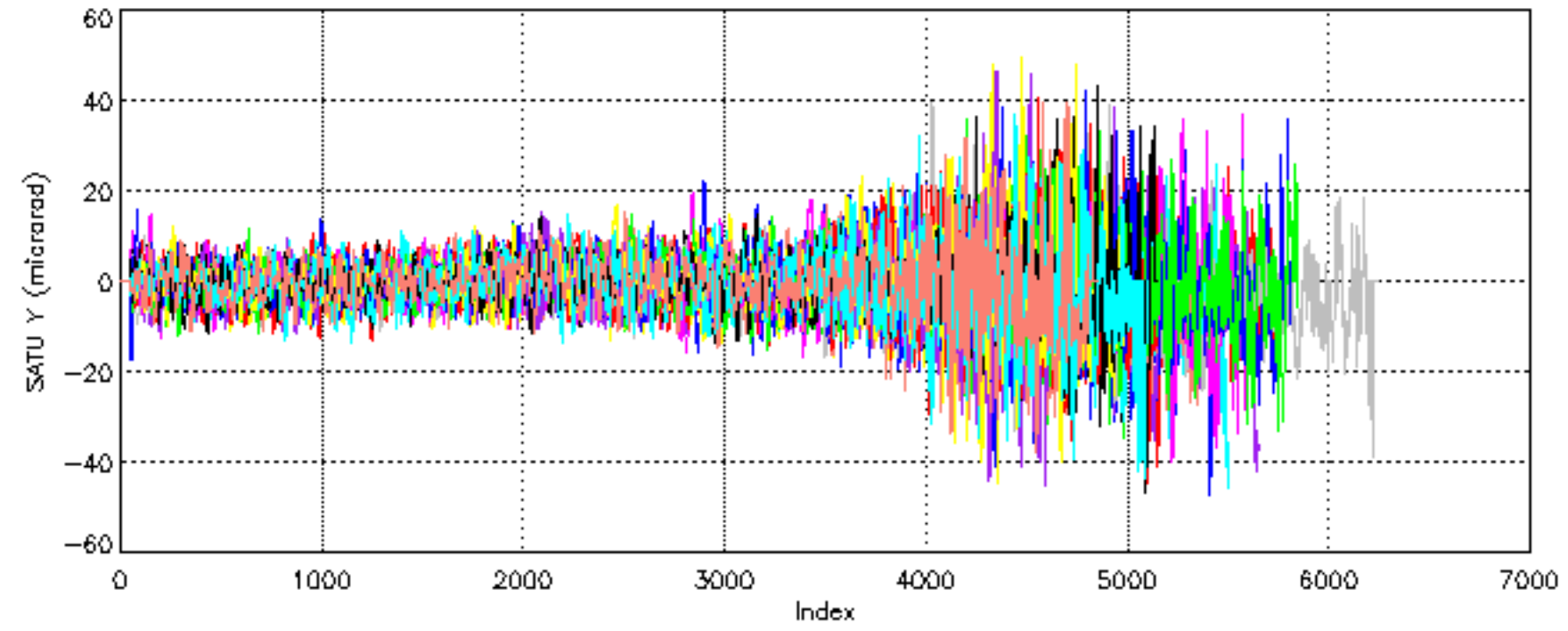
Tangent altitude at which the star is lost

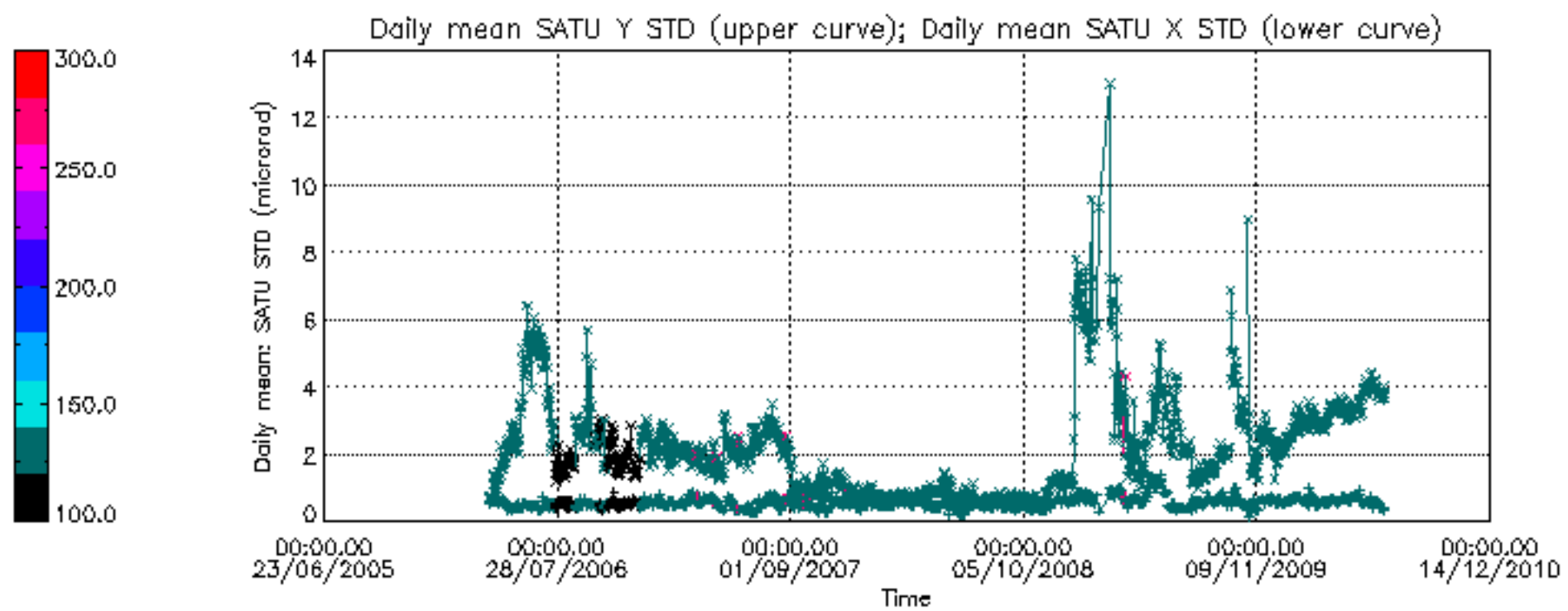


Tangent altitude at which the star is lost









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 5; 486.0; 01-JUN-2010 01:28:37; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;43143
 6; 933.8; 01-JUN-2010 01:36:05; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;43143
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 13; 1702.4; 01-JUN-2010 01:48:54; Bright; 42.5; 98; 13Zet Oph ; 2.57; 30000;occ; 85; 0;43143
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 18; 3005.3; 01-JUN-2010 02:10:37; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;43143
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 21; 4393.4; 01-JUN-2010 02:33:45; Bright; 48.0; 53; 43Bet And ; 2.05; 3300;occ; 96; 0;43143
 22; 4555.3; 01-JUN-2010 02:36:27; Dark ; 53.0; 58; 21Alp And ; 2.07; 11000;occ; 106; 0;43143
 23; 4851.4; 01-JUN-2010 02:41:23; Dark ; 51.5; 140; 88Gam Peg ; 2.83; 26000;occ; 103; 0;43143
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 38; 7869.5; 01-JUN-2010 03:31:41; Bright; 40.0; 120; 1Del Oph ; 2.73; 3200;occ; 80; 0;43144
 39; 8050.5; 01-JUN-2010 03:34:42; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;43144
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 11; 6224.6; 01-JUN-2010 04:44:52; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;43145
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 13; 6970.6; 01-JUN-2010 04:57:18; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;43145
 14; 7072.2; 01-JUN-2010 04:58:59; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;43145
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 22; 8050.5; 01-JUN-2010 05:15:18; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;43145
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9; 190.0; 01-JUN-2010 06:25:29; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;43146
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11; 935.0; 01-JUN-2010 06:37:54; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;43146
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13; 1144.5; 01-JUN-2010 06:41:24; Dark ; 51.0; 25; 35Lam Sco ; 1.62; 28000;occ; 102; 0;43146
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18; 1702.5; 01-JUN-2010 06:50:42; Bright; 42.0; 98; 13Zet Oph ; 2.57; 30000;occ; 84; 0;43146
19; 1833.8; 01-JUN-2010 06:52:53; Bright; 40.5; 120; 1Del Oph ; 2.73; 3200;occ; 81; 0;43146
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21; 2368.8; 01-JUN-2010 07:01:48; Bright; 39.5; 67; 5Alp CrB ; 2.22; 11000;occ; 79; 0;43146
22; 2528.1; 01-JUN-2010 07:04:27; Bright; 61.0; 133; 40Zet Her ; 2.81; 6000;occ; 122; 0;43146
23; 3004.5; 01-JUN-2010 07:12:24; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;43146
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 4; 285.8; 16-JUN-2010 23:41:49; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;43371
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 6; 2276.1; 16-JUN-2010 17:32:35; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;43367
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13; 4411.6; 16-JUN-2010 18:08:11; Dark ; 60.5; 53; 43Bet And ; 2.05; 3300;occ; 121; 0;43367
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 2; 1619.7; 19-JUN-2010 15:46:48; Bright; 39.5; 86; 35Eta Oph ; 2.43; 10200;occ; 79; 0;43409
 3; 1996.8; 19-JUN-2010 15:53:05; Bright; 42.0; 126; 60Bet Oph ; 2.77; 4250;occ; 84; 0;43409
 4; 2144.5; 19-JUN-2010 15:55:33; Bright; 41.5; 59; 55Alp Oph ; 2.08; 8900;occ; 83; 0;43409
 5; 2274.1; 19-JUN-2010 15:57:42; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;43409
 6; 2451.4; 19-JUN-2010 16:00:40; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;43409
 7; 2849.2; 19-JUN-2010 16:07:17; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;43409
 8; 2955.8; 19-JUN-2010 16:09:04; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;43409
 9; 3457.2; 19-JUN-2010 16:17:25; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;43409
 10; 3859.4; 19-JUN-2010 16:24:08; Bright; 65.0; 74; 11Bet Cas ; 2.27; 6600;occ; 130; 0;43409
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 12; 4064.0; 19-JUN-2010 16:27:32; Bright; 33.0; 160; 23Gam Per ; 2.93; 4700;occ; 66; 0;43409
 13; 4270.6; 19-JUN-2010 16:30:59; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;43409
 14; 4410.6; 19-JUN-2010 16:33:19; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;43409
 15; 4632.6; 19-JUN-2010 16:37:01; Dark ; 47.0; 50; 13Alp Ari ; 2.01; 4250;occ; 94; 0;43409
 16; 5383.0; 19-JUN-2010 16:49:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43409
 17; 5620.5; 19-JUN-2010 16:53:29; Dark ; 60.0; 52; 16Bet Cet ; 2.04; 4500;occ; 120; 0;43409
 18; 5978.2; 19-JUN-2010 16:59:26; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;43409
 19; 6360.2; 19-JUN-2010 17:05:48; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;43410
 20; 6483.3; 19-JUN-2010 17:07:51; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;43410
 21; 6693.0; 19-JUN-2010 17:11:21; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;43410

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 3; 1619.9; 19-JUN-2010 17:27:24; Bright; 40.0; 86; 35Eta Oph ; 2.43; 10200;occ; 80; 0;43410
 4; 1996.5; 19-JUN-2010 17:33:41; Bright; 41.5; 126; 60Bet Oph ; 2.77; 4250;occ; 83; 0;43410
 5; 2144.2; 19-JUN-2010 17:36:08; Bright; 45.5; 59; 55Alp Oph ; 2.08; 8900;occ; 91; 0;43410
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 7; 2451.3; 19-JUN-2010 17:41:15; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;43410
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 9; 2955.8; 19-JUN-2010 17:49:40; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;43410
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 11; 3859.1; 19-JUN-2010 18:04:43; Bright; 65.0; 74; 11Bet Cas ; 2.27; 6600;occ; 130; 0;43410
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 13; 4064.0; 19-JUN-2010 18:08:08; Bright; 53.0; 160; 23Gam Per ; 2.93; 4700;occ; 106; 0;43410
 14; 4270.6; 19-JUN-2010 18:11:35; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;43410
 15; 4410.4; 19-JUN-2010 18:13:55; Dark ; 43.5; 173; 4Bet Tri ; 3.00; 8900;occ; 87; 0;43410
 16; 4632.9; 19-JUN-2010 18:17:37; Dark ; 49.0; 50; 13Alp Ari ; 2.01; 4250;occ; 98; 0;43410
 17; 5383.6; 19-JUN-2010 18:30:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43410
 18; 5621.5; 19-JUN-2010 18:34:06; Dark ; 61.0; 52; 16Bet Cet ; 2.04; 4500;occ; 122; 0;43410
 19; 5979.0; 19-JUN-2010 18:40:03; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;43410
 20; 6361.0; 19-JUN-2010 18:46:25; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;43411
 21; 6484.3; 19-JUN-2010 18:48:28; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;43411
 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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 3; 1620.2; 19-JUN-2010 19:08:00; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;43411
 4; 1996.7; 19-JUN-2010 19:14:17; Bright; 42.5; 126; 60Bet Oph ; 2.77; 4250;occ; 85; 0;43411
 5; 2144.0; 19-JUN-2010 19:16:44; Bright; 42.0; 59; 55Alp Oph ; 2.08; 8900;occ; 84; 0;43411
 6; 2274.0; 19-JUN-2010 19:18:54; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;43411
 7; 2451.1; 19-JUN-2010 19:21:51; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;43411
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 9; 2955.8; 19-JUN-2010 19:30:16; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;43411
 10; 3455.7; 19-JUN-2010 19:38:36; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;43411
 11; 3858.8; 19-JUN-2010 19:45:19; Bright; 47.0; 74; 11Bet Cas ; 2.27; 6600;occ; 94; 0;43411
 12; 3946.2; 19-JUN-2010 19:46:46; Bright; 43.5; 68; 18Alp Cas ; 2.22; 4500;occ; 87; 0;43411
 13; 4064.0; 19-JUN-2010 19:48:44; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;43411
 14; 4270.4; 19-JUN-2010 19:52:10; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;43411
 15; 4410.7; 19-JUN-2010 19:54:31; Dark ; 41.5; 173; 4Bet Tri ; 3.00; 8900;occ; 83; 0;43411
 16; 4632.9; 19-JUN-2010 19:58:13; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;43411
 17; 5384.1; 19-JUN-2010 20:10:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43411
 18; 5622.9; 19-JUN-2010 20:14:43; Dark ; 65.0; 52; 16Bet Cet ; 2.04; 4500;occ; 130; 0;43411
 19; 5979.8; 19-JUN-2010 20:20:40; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;43411
 20; 6362.1; 19-JUN-2010 20:27:02; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;43412
 21; 6485.0; 19-JUN-2010 20:29:05; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;43412
 22; 6694.1; 19-JUN-2010 20:32:34; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;43412

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 3; 1620.0; 19-JUN-2010 20:48:36; Bright; 39.5; 86; 35Eta Oph ; 2.43; 10200;occ; 79; 0;43412
 4; 1996.2; 19-JUN-2010 20:54:52; Bright; 41.5; 126; 60Bet Oph ; 2.77; 4250;occ; 83; 0;43412
 5; 2143.6; 19-JUN-2010 20:57:20; Bright; 42.0; 59; 55Alp Oph ; 2.08; 8900;occ; 84; 0;43412
 6; 2274.1; 19-JUN-2010 20:59:30; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;43412
 7; 2451.0; 19-JUN-2010 21:02:27; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;43412
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 9; 2955.8; 19-JUN-2010 21:10:52; Bright; 53.0; 119; 14Eta Dra ; 2.73; 4700;occ; 106; 0;43412
 10; 3455.2; 19-JUN-2010 21:19:11; Bright; 49.0; 89; 5Alp Cep ; 2.45; 8000;occ; 98; 0;43412
 11; 3858.4; 19-JUN-2010 21:25:54; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;43412
 12; 3945.8; 19-JUN-2010 21:27:22; Bright; 45.5; 68; 18Alp Cas ; 2.22; 4500;occ; 91; 0;43412
 13; 4064.1; 19-JUN-2010 21:29:20; Bright; 53.0; 160; 23Gam Per ; 2.93; 4700;occ; 106; 0;43412
 14; 4270.3; 19-JUN-2010 21:32:46; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;43412
 15; 4410.5; 19-JUN-2010 21:35:07; Dark ; 44.0; 173; 4Bet Tri ; 3.00; 8900;occ; 88; 0;43412
 16; 4633.3; 19-JUN-2010 21:38:49; Dark ; 51.0; 50; 13Alp Ari ; 2.01; 4250;occ; 102; 0;43412

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 3; -54.8; 19-JUN-2010 22:01:17; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;43412
 4; 326.8; 19-JUN-2010 22:07:39; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;43413
 5; 449.9; 19-JUN-2010 22:09:42; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;43413
 6; 658.8; 19-JUN-2010 22:13:11; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;43413
 7; 1225.1; 19-JUN-2010 22:22:37; Dark ; 48.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 97; 0;43413
 8; 1312.7; 19-JUN-2010 22:24:05; Dark ; 47.5; 116; 19Del Sgr ; 2.70; 4100;occ; 95; 0;43413
 9; 1620.3; 19-JUN-2010 22:29:12; Bright; 39.5; 86; 35Eta Oph ; 2.43; 10200;occ; 79; 0;43413
 10; 1996.1; 19-JUN-2010 22:35:28; Bright; 41.5; 126; 60Bet Oph ; 2.77; 4250;occ; 83; 0;43413
 11; 2143.4; 19-JUN-2010 22:37:55; Bright; 42.0; 59; 55Alp Oph ; 2.08; 8900;occ; 84; 0;43413
 12; 2273.9; 19-JUN-2010 22:40:06; Bright; 41.0; 127; 27Bet Her ; 2.78; 4700;occ; 82; 0;43413
 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
 15; 2955.6; 19-JUN-2010 22:51:28; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;43413
 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
 20; 4270.5; 19-JUN-2010 23:13:22; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;43413
 21; 4410.7; 19-JUN-2010 23:15:43; Dark ; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;43413
 22; 4633.6; 19-JUN-2010 23:19:26; Dark ; 50.5; 50; 13Alp Ari ; 2.01; 4250;occ; 101; 0;43413

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 3; -54.4; 19-JUN-2010 23:41:53; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;43413
 4; 327.9; 19-JUN-2010 23:48:16; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;43414
 5; 451.1; 19-JUN-2010 23:50:19; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;43414

6; 659.5; 19-JUN-2010 23:53:47; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;43414
7; 1225.7; 20-JUN-2010 00:03:13; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;43414
8; 1312.8; 20-JUN-2010 00:04:41; Dark ; 49.5; 116; 19Del Sgr ; 2.70; 4100;occ; 99; 0;43414
9; 1620.5; 20-JUN-2010 00:09:48; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;43414
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11; 2143.2; 20-JUN-2010 00:18:31; Bright; 43.5; 59; 55Alp Oph ; 2.08; 8900;occ; 87; 0;43414
12; 2273.8; 20-JUN-2010 00:20:42; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;43414
13; 2450.9; 20-JUN-2010 00:23:39; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;43414
14; 2847.3; 20-JUN-2010 00:30:15; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;43414
15; 2955.7; 20-JUN-2010 00:32:04; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;43414
16; 3453.6; 20-JUN-2010 00:40:21; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;43414
17; 3857.3; 20-JUN-2010 00:47:05; Bright; 45.5; 74; 11Bet Cas ; 2.27; 6600;occ; 91; 0;43414
18; 3945.2; 20-JUN-2010 00:48:33; Bright; 47.5; 68; 18Alp Cas ; 2.22; 4500;occ; 95; 0;43414
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21; 4414.1; 20-JUN-2010 00:56:22; Dark ; 64.0; 53; 43Bet And ; 2.05; 3300;occ; 128; 0;43414
22; 4633.8; 20-JUN-2010 01:00:02; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;43414
23; 5385.8; 20-JUN-2010 01:12:34; Dark ; 20.0; 0; ; 0.00; 0;occ; 40; 0;43414

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3; -53.2; 20-JUN-2010 01:22:30; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;43414
4; 328.8; 20-JUN-2010 01:28:52; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;43415
5; 452.1; 20-JUN-2010 01:30:56; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;43415
6; 659.6; 20-JUN-2010 01:34:23; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;43415
7; 1226.0; 20-JUN-2010 01:43:50; Dark ; 48.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 96; 0;43415
8; 1312.8; 20-JUN-2010 01:45:17; Dark ; 49.0; 116; 19Del Sgr ; 2.70; 4100;occ; 98; 0;43415
9; 1620.5; 20-JUN-2010 01:50:24; Bright; 38.5; 86; 35Eta Oph ; 2.43; 10200;occ; 77; 0;43415
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11; 2142.9; 20-JUN-2010 01:59:07; Bright; 42.5; 59; 55Alp Oph ; 2.08; 8900;occ; 85; 0;43415
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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
14; 2847.3; 20-JUN-2010 02:10:51; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;43415
15; 2955.2; 20-JUN-2010 02:12:39; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;43415
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17; 3856.9; 20-JUN-2010 02:27:41; Bright; 46.5; 74; 11Bet Cas ; 2.27; 6600;occ; 93; 0;43415
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28; 6696.4; 20-JUN-2010 03:15:00; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;43416
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 7; 1325.1; 22-JUN-2010 22:30:02; Dark ; 47.0; 116; 19Del Sgr ; 2.70; 4100;occ; 94; 0;43456
 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
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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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 22; 4933.5; 22-JUN-2010 23:30:10; Dark ; 38.0; 94; 92Alp Cet ; 2.53; 3100;occ; 76; 0;43456
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 19; 4270.4; 23-JUN-2010 00:59:43; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;43457
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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
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 15; 3839.7; 23-JUN-2010 02:33:08; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 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
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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
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 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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 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
 10; 5414.1; 23-JUN-2010 04:39:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43459
 11; 6022.2; 23-JUN-2010 04:50:07; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;43459
 12; 6409.6; 23-JUN-2010 04:56:34; Dark ; 57.0; 63; Bet Gru ; 2.15; 2800;occ; 114; 0;43460
 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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 16; 7362.5; 23-JUN-2010 05:12:27; Dark ; 46.0; 116; 19Del Sgr ; 2.70; 4100;occ; 92; 0;43460
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 3;-1971.3; 23-JUN-2010 05:58:05; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 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
 6;-1390.3; 23-JUN-2010 06:07:46; Dark ; 53.0; 50; 13Alp Ari ; 2.01; 4250;occ; 106; 0;43460
 7;-1100.8; 23-JUN-2010 06:12:36; Dark ; 37.0; 94; 92Alp Cet ; 2.53; 3100;occ; 74; 0;43460
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11; 3928.6; 23-JUN-2010 17:40:00; Bright; 66.0; 68; 18Alp Cas ; 2.22; 4500;occ; 132; 0;43467
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13; 4270.3; 23-JUN-2010 17:45:42; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;43467
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4; 506.4; 23-JUN-2010 23:25:22; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;43471
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13; 2830.4; 24-JUN-2010 01:44:42; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 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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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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 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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 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
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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
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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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
 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
 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
 15; 4947.6; 25-JUN-2010 21:55:33; Dark ; 45.0; 94; 92Alp Cet ; 2.53; 3100;occ; 90; 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
 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
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 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
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 17; 4269.8; 25-JUN-2010 23:24:51; Bright; 48.0; 73; 57Gam1And ; 2.26; 13100;occ; 96; 0;43499
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 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
 5; 706.9; 26-JUN-2010 00:06:04; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;43500
 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
 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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11; 2692.8; 26-JUN-2010 00:39:10; Bright; 42.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 85; 0;43500
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
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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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 7; 3904.4; 28-JUN-2010 08:19:07; Bright; 49.0; 68; 18Alp Cas ; 2.22; 4500;occ; 98; 0;43533
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 9; 4268.9; 28-JUN-2010 08:25:12; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;43533
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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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