

# GOMOS Daily Report 01-DEC-2010

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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	14DEC2010 15:08:32
Data source version	GOMOS/5.01
Start time of products	01DEC2010 00:01:28
Stop time of products	01DEC2010 23:57:05
Store outputs in DB	No
Nb of level 1b prods	136
Nb of prods with errors	0

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

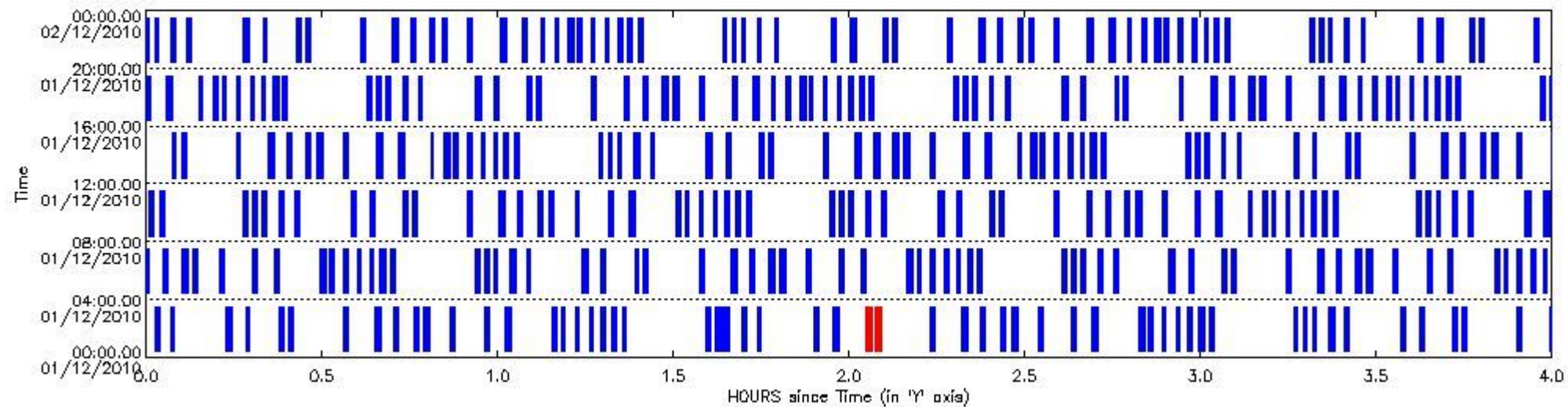
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
01-DEC-2010 02:02:47	4GamCrv	100	45764
01-DEC-2010 02:04:22	2EpsCrv	171	45764

### 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_1PNPDE20101201_000128_000000523097_00059_45763_2182.N1	01-DEC-2010 00:01:28	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	45763	No
2	GOM_TRA_1PNPDE20101201_000409_000000413097_00059_45763_2183.N1	01-DEC-2010 00:04:09	Bright	40.500	152	12Alp2CVn	2.8900	11000.	81	45763	No
3	GOM_TRA_1PNPDE20101201_001338_000000553097_00059_45763_2184.N1	01-DEC-2010 00:13:38	Bright	55.000	62	94Bet Leo	2.1360	9700.0	110	45763	No
4	GOM_TRA_1PNPDE20101201_001657_000000423097_00059_45763_2185.N1	01-DEC-2010 00:16:57	Bright	41.500	121	29Gam Vir	2.7400	7200.0	83	45763	No
5	GOM_TRA_1PNPDE20101201_002235_000000493097_00059_45763_2209.N1	01-DEC-2010 00:22:35	Twilight	49.000	100	4Gam Crv	2.5800	13100.	98	45763	No
6	GOM_TRA_1PNPDE20101201_002411_000000533097_00059_45763_2210.N1	01-DEC-2010 00:24:11	Dark	52.500	171	2Eps Crv	3.0010	4250.0	105	45763	No
7	GOM_TRA_1PNPDE20101201_003337_000000423097_00060_45764_2211.N1	01-DEC-2010 00:33:37	Dark	42.000	113	Mu Vel	2.6920	5000.0	84	45764	No
8	GOM_TRA_1PNPDE20101201_004212_000000483097_00060_45764_2212.N1	01-DEC-2010 00:42:12	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	45764	No
9	GOM_TRA_1PNPDE20101201_004535_000000493097_00060_45764_2213.N1	01-DEC-2010 00:45:35	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	45764	No

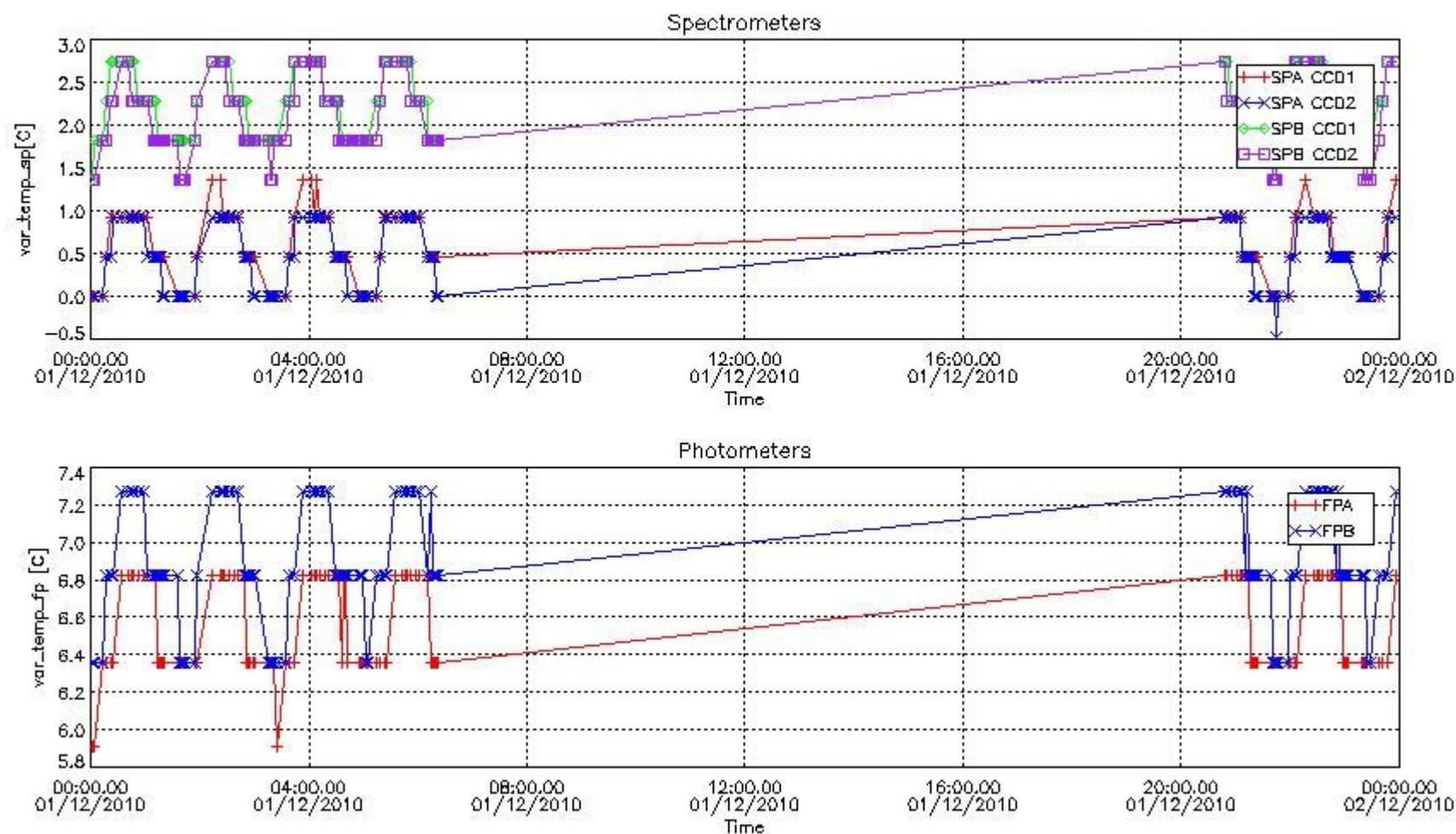
10	GOM_TRA_1PNPDE20101201_004724_000000603097_00060_45764_2214.N1	01-DEC-2010 00:47:24	Dark	59.500	117	Pi Pup	2.7060	3800.0	119	45764	No
11	GOM_TRA_1PNPDE20101201_005158_000000473097_00060_45764_2215.N1	01-DEC-2010 00:51:58	Dark	47.000	108	Alp Col	2.6520	15200.	94	45764	No
12	GOM_TRA_1PNPDE20101201_005740_000000553097_00060_45764_2216.N1	01-DEC-2010 00:57:40	Straylight	54.500	101	11Alp Lep	2.5820	7000.0	109	45764	No
13	GOM_TRA_1PNPDE20101201_010116_000000693097_00060_45764_2217.N1	01-DEC-2010 01:01:16	Straylight	68.500	7	19Bet Ori	0.10000	14000.	137	45764	No
14	GOM_TRA_1PNPDE20101201_010915_000000553097_00060_45764_2218.N1	01-DEC-2010 01:09:15	Bright	55.000	13	87Alp Tau	0.86700	3800.0	110	45764	No
15	GOM_TRA_1PNPDE20101201_011051_000000383097_00060_45764_2219.N1	01-DEC-2010 01:10:51	Bright	37.500	146	25Eta Tau	2.8730	15200.	75	45764	No
16	GOM_TRA_1PNPDE20101201_011313_000000373097_00060_45764_2220.N1	01-DEC-2010 01:13:13	Bright	36.500	150	44Zet Per	2.8900	28000.	73	45764	No
17	GOM_TRA_1PNPDE20101201_011538_000000373097_00060_45764_2221.N1	01-DEC-2010 01:15:38	Bright	37.000	149	45Eps Per	2.8880	30000.	74	45764	No
18	GOM_TRA_1PNPDE20101201_011739_000000373097_00060_45764_2222.N1	01-DEC-2010 01:17:39	Bright	36.500	175	39Del Per	3.0100	19400.	73	45764	No
19	GOM_TRA_1PNPDE20101201_011928_000000533097_00060_45764_2223.N1	01-DEC-2010 01:19:28	Bright	53.000	6	13Alp Aur	0.080000	3400.0	106	45764	No
20	GOM_TRA_1PNPDE20101201_012117_000000423097_00060_45764_2224.N1	01-DEC-2010 01:21:17	Bright	42.000	42	34Bet Aur	1.9000	10200.	84	45764	No
21	GOM_TRA_1PNPDE20101201_013538_000000453097_00060_45764_2225.N1	01-DEC-2010 01:35:38	Bright	45.000	36	50Alp UMa	1.8000	6300.0	90	45764	No
22	GOM_TRA_1PNPDE20101201_013713_000000683097_00060_45764_2226.N1	01-DEC-2010 01:37:13	Bright	68.000	82	48Bet UMa	2.3650	10600.	136	45764	No
23	GOM_TRA_1PNPDE20101201_013851_000000383097_00060_45764_2227.N1	01-DEC-2010 01:38:51	Bright	38.000	32	77Eps UMa	1.7630	11000.	76	45764	No
24	GOM_TRA_1PNPDE20101201_014142_000000523097_00060_45764_2228.N1	01-DEC-2010 01:41:42	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	45764	No
25	GOM_TRA_1PNPDE20101201_014423_000000393097_00060_45764_2229.N1	01-DEC-2010 01:44:23	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	45764	No
26	GOM_TRA_1PNPDE20101201_015353_000000573097_00060_45764_2230.N1	01-DEC-2010 01:53:53	Bright	56.500	62	94Bet Leo	2.1360	9700.0	113	45764	No
27	GOM_TRA_1PNPDE20101201_015712_000000623097_00060_45764_2231.N1	01-DEC-2010 01:57:12	Bright	62.000	121	29Gam Vir	2.7400	7200.0	124	45764	No
28	GOM_TRA_1PNPDE20101201_021352_000000463097_00061_45765_2232.N1	01-DEC-2010 02:13:52	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	45765	No
29	GOM_TRA_1PNPDE20101201_022227_000000493097_00061_45765_2233.N1	01-DEC-2010 02:22:27	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	45765	No
30	GOM_TRA_1PNPDE20101201_022549_000000583097_00061_45765_2234.N1	01-DEC-2010 02:25:49	Dark	58.000	2	Alp Car	-0.73600	7000.0	116	45765	No
31	GOM_TRA_1PNPDE20101201_022739_000000643097_00061_45765_2235.N1	01-DEC-2010 02:27:39	Dark	64.000	117	Pi Pup	2.7060	3800.0	128	45765	No
32	GOM_TRA_1PNPDE20101201_023213_000000473097_00061_45765_2236.N1	01-DEC-2010 02:32:13	Dark	47.000	108	Alp Col	2.6520	15200.	94	45765	No
33	GOM_TRA_1PNPDE20101201_023754_000000553097_00061_45765_2237.N1	01-DEC-2010 02:37:54	Straylight	55.000	101	11Alp Lep	2.5820	7000.0	110	45765	No
34	GOM_TRA_1PNPDE20101201_024130_000000593097_00061_45765_2238.N1	01-DEC-2010 02:41:30	Straylight	59.000	7	19Bet Ori	0.10000	14000.	118	45765	No
35	GOM_TRA_1PNPDE20101201_024928_000000593097_00061_45765_2239.N1	01-DEC-2010 02:49:28	Bright	59.000	13	87Alp Tau	0.86700	3800.0	118	45765	No
36	GOM_TRA_1PNPDE20101201_025105_000000403097_00061_45765_2240.N1	01-DEC-2010 02:51:05	Bright	39.500	146	25Eta Tau	2.8730	15200.	79	45765	No
37	GOM_TRA_1PNPDE20101201_025327_000000403097_00061_45765_2241.N1	01-DEC-2010 02:53:27	Bright	39.500	150	44Zet Per	2.8900	28000.	79	45765	No
38	GOM_TRA_1PNPDE20101201_025552_000000383097_00061_45765_2242.N1	01-DEC-2010 02:55:52	Bright	38.000	149	45Eps Per	2.8880	30000.	76	45765	No
39	GOM_TRA_1PNPDE20101201_025753_000000373097_00061_45765_2243.N1	01-DEC-2010 02:57:53	Bright	36.500	175	39Del Per	3.0100	19400.	73	45765	No
40	GOM_TRA_1PNPDE20101201_025942_000000543097_00061_45765_2244.N1	01-DEC-2010 02:59:42	Bright	53.500	6	13Alp Aur	0.080000	3400.0	107	45765	No
41	GOM_TRA_1PNPDE20101201_030130_000000423097_00061_45765_2245.N1	01-DEC-2010 03:01:30	Bright	41.500	42	34Bet Aur	1.9000	10200.	83	45765	No
42	GOM_TRA_1PNPDE20101201_031552_000000463097_00061_45765_2276.N1	01-DEC-2010 03:15:52	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	45765	No
43	GOM_TRA_1PNPDE20101201_031727_000000483097_00061_45765_2277.N1	01-DEC-2010 03:17:27	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	45765	No
44	GOM_TRA_1PNPDE20101201_031905_000000423097_00061_45765_2278.N1	01-DEC-2010 03:19:05	Bright	41.500	32	77Eps UMa	1.7630	11000.	83	45765	No
45	GOM_TRA_1PNPDE20101201_032155_000000673097_00061_45765_2279.N1	01-DEC-2010 03:21:55	Bright	67.000	174	52Psi UMa	3.0040	4400.0	134	45765	No
46	GOM_TRA_1PNPDE20101201_032437_000000403097_00061_45765_2280.N1	01-DEC-2010 03:24:37	Bright	40.000	152	12Alp2CVn	2.8900	11000.	80	45765	No
47	GOM_TRA_1PNPDE20101201_033408_000000583097_00061_45765_2281.N1	01-DEC-2010 03:34:08	Bright	58.000	62	94Bet Leo	2.1360	9700.0	116	45765	No
48	GOM_TRA_1PNPDE20101201_033727_000000453097_00061_45765_2282.N1	01-DEC-2010 03:37:27	Bright	45.000	121	29Gam Vir	2.7400	7200.0	90	45765	No
49	GOM_TRA_1PNPDE20101201_034305_000000443097_00061_45765_2283.N1	01-DEC-2010 03:43:05	Twilight	44.000	100	4Gam Crv	2.5800	13100.	88	45765	No
50	GOM_TRA_1PNPDE20101201_034441_000000473097_00061_45765_2284.N1	01-DEC-2010 03:44:41	Dark	47.000	171	2Eps Crv	3.0010	4250.0	94	45765	No
51	GOM_TRA_1PNPDE20101201_035407_000000433097_00062_45766_2285.N1	01-DEC-2010 03:54:07	Dark	42.500	113	Mu Vel	2.6920	5000.0	85	45766	No
52	GOM_TRA_1PNPDE20101201_040242_000000493097_00062_45766_2286.N1	01-DEC-2010 04:02:42	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	45766	No
53	GOM_TRA_1PNPDE20101201_040604_000000563097_00062_45766_2287.N1	01-DEC-2010 04:06:04	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	45766	No
54	GOM_TRA_1PNPDE20101201_040754_000000563097_00062_45766_2288.N1	01-DEC-2010 04:07:54	Dark	56.000	117	Pi Pup	2.7060	3800.0	112	45766	No
55	GOM_TRA_1PNPDE20101201_041227_000000473097_00062_45766_2289.N1	01-DEC-2010 04:12:27	Dark	47.000	108	Alp Col	2.6520	15200.	94	45766	No
56	GOM_TRA_1PNPDE20101201_041809_000000533097_00062_45766_2290.N1	01-DEC-2010 04:18:09	Straylight	53.000	101	11Alp Lep	2.5820	7000.0	106	45766	No
57	GOM_TRA_1PNPDE20101201_042144_000000613097_00062_45766_2291.N1	01-DEC-2010 04:21:44	Straylight	60.500	7	19Bet Ori	0.10000	14000.	121	45766	No
58	GOM_TRA_1PNPDE20101201_042942_000000593097_00062_45766_2292.N1	01-DEC-2010 04:29:42	Bright	58.500	13	87Alp Tau	0.86700	3800.0	117	45766	No
59	GOM_TRA_1PNPDE20101201_043119_000000403097_00062_45766_2293.N1	01-DEC-2010 04:31:19	Bright	39.500	146	25Eta Tau	2.8730	15200.	79	45766	No
60	GOM_TRA_1PNPDE20101201_043341_000000403097_00062_45766_2294.N1	01-DEC-2010 04:33:41	Bright	39.500	150	44Zet Per	2.8900	28000.	79	45766	No
61	GOM_TRA_1PNPDE20101201_043606_000000383097_00062_45766_2295.N1	01-DEC-2010 04:36:06	Bright	37.500	149	45Eps Per	2.8880	30000.	75	45766	No
62	GOM_TRA_1PNPDE20101201_043807_000000373097_00062_45766_2296.N1	01-DEC-2010 04:38:07	Bright	36.500	175	39Del Per	3.0100	19400.	73	45766	No
63	GOM_TRA_1PNPDE20101201_043955_000000513097_00062_45766_2297.N1	01-DEC-2010 04:39:55	Bright	51.000	6	13Alp Aur	0.080000	3400.0	102	45766	No
64	GOM_TRA_1PNPDE20101201_044144_000000473097_00062_45766_2298.N1	01-DEC-2010 04:41:44	Bright	46.500	42	34Bet Aur	1.9000	10200.	93	45766	No
65	GOM_TRA_1PNPDE20101201_045605_000000463097_00062_45766_2303.N1	01-DEC-2010 04:56:05	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	45766	No
66	GOM_TRA_1PNPDE20101201_045741_000000453097_00062_45766_2304.N1	01-DEC-2010 04:57:41	Bright	45.000	82	48Bet UMa	2.3650	10600.	90	45766	No
67	GOM_TRA_1PNPDE20101201_045919_000000393097_00062_45766_2305.N1	01-DEC-2010 04:59:19	Bright	38.500	32	77Eps UMa	1.7630	11000.	77	45766	No
68	GOM_TRA_1PNPDE20101201_050209_000000513097_00062_45766_2306.N1	01-DEC-2010 05:02:09	Bright	50.500	174	52Psi UMa	3.0040	4400.0	101	45766	No



69	GOM_TRA_1PNPDE20101201_050451_000000413097_00062_45766_2307.N1	01-DEC-2010 05:04:51	Bright	40.500	152	12Alp2CVn	2.8900	11000.	81	45766	No
70	GOM_TRA_1PNPDE20101201_051423_000000623097_00062_45766_2308.N1	01-DEC-2010 05:14:23	Bright	62.000	62	94Bet Leo	2.1360	9700.0	124	45766	No
71	GOM_TRA_1PNPDE20101201_051741_000000453097_00062_45766_2309.N1	01-DEC-2010 05:17:41	Bright	45.000	121	29Gam Vir	2.7400	7200.0	90	45766	No
72	GOM_TRA_1PNPDE20101201_052320_000000463097_00062_45766_2310.N1	01-DEC-2010 05:23:20	Twilight	46.000	100	4Gam Crv	2.5800	13100.	92	45766	No
73	GOM_TRA_1PNPDE20101201_052456_000000493097_00062_45766_2311.N1	01-DEC-2010 05:24:56	Dark	49.000	171	2Eps Crv	3.0010	4250.0	98	45766	No
74	GOM_TRA_1PNPDE20101201_053422_000000473097_00063_45767_2312.N1	01-DEC-2010 05:34:22	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	45767	No
75	GOM_TRA_1PNPDE20101201_054257_000000493097_00063_45767_2313.N1	01-DEC-2010 05:42:57	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	45767	No
76	GOM_TRA_1PNPDE20101201_054619_000000583097_00063_45767_2314.N1	01-DEC-2010 05:46:19	Dark	58.000	2	Alp Car	-0.73600	7000.0	116	45767	No
77	GOM_TRA_1PNPDE20101201_054809_000000593097_00063_45767_2315.N1	01-DEC-2010 05:48:09	Dark	58.500	117	Pi Pup	2.7060	3800.0	117	45767	No
78	GOM_TRA_1PNPDE20101201_055242_000000483097_00063_45767_2316.N1	01-DEC-2010 05:52:42	Dark	48.000	108	Alp Col	2.6520	15200.	96	45767	No
79	GOM_TRA_1PNPDE20101201_055823_000000513097_00063_45767_2317.N1	01-DEC-2010 05:58:23	Straylight	51.000	101	11Alp Lep	2.5820	7000.0	102	45767	No
80	GOM_TRA_1PNPDE20101201_060158_000000583097_00063_45767_2318.N1	01-DEC-2010 06:01:58	Straylight	58.000	7	19Bet Ori	0.10000	14000.	116	45767	No
81	GOM_TRA_1PNPDE20101201_060956_000000573097_00063_45767_2319.N1	01-DEC-2010 06:09:56	Bright	57.000	13	87Alp Tau	0.86700	3800.0	114	45767	No
82	GOM_TRA_1PNPDE20101201_061133_000000403097_00063_45767_2320.N1	01-DEC-2010 06:11:33	Bright	39.500	146	25Eta Tau	2.8730	15200.	79	45767	No
83	GOM_TRA_1PNPDE20101201_061355_000000383097_00063_45767_2321.N1	01-DEC-2010 06:13:55	Bright	38.000	150	44Zet Per	2.8900	28000.	76	45767	No
84	GOM_TRA_1PNPDE20101201_061620_000000383097_00063_45767_2322.N1	01-DEC-2010 06:16:20	Bright	37.500	149	45Eps Per	2.8880	30000.	75	45767	No
85	GOM_TRA_1PNPDE20101201_061821_000000373097_00063_45767_2323.N1	01-DEC-2010 06:18:21	Bright	37.000	175	39Del Per	3.0100	19400.	74	45767	No
86	GOM_TRA_1PNPDE20101201_062009_000000523097_00063_45767_2324.N1	01-DEC-2010 06:20:09	Bright	51.500	6	13Alp Aur	0.080000	3400.0	103	45767	No
87	GOM_TRA_1PNPDE20101201_062157_000000473097_00063_45767_2325.N1	01-DEC-2010 06:21:57	Bright	46.500	42	34Bet Aur	1.9000	10200.	93	45767	No
88	GOM_TRA_1PNPDE20101201_204829_000000503097_00072_45776_2544.N1	01-DEC-2010 20:48:29	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	45776	No
89	GOM_TRA_1PNPDE20101201_205023_000000613097_00072_45776_2545.N1	01-DEC-2010 20:50:23	Dark	61.000	117	Pi Pup	2.7060	3800.0	122	45776	No
90	GOM_TRA_1PNPDE20101201_205452_000000473097_00072_45776_2546.N1	01-DEC-2010 20:54:52	Dark	46.500	108	Alp Col	2.6520	15200.	93	45776	No
91	GOM_TRA_1PNPDE20101201_210030_000000543097_00072_45776_2547.N1	01-DEC-2010 21:00:30	Straylight	53.500	101	11Alp Lep	2.5820	7000.0	107	45776	No
92	GOM_TRA_1PNPDE20101201_210404_000000583097_00072_45776_2548.N1	01-DEC-2010 21:04:04	Straylight	58.000	7	19Bet Ori	0.10000	14000.	116	45776	No
93	GOM_TRA_1PNPDE20101201_210717_000000333097_00072_45776_2549.N1	01-DEC-2010 21:07:17	Twilight	33.000	72	34Del Ori	2.2500	30000.	66	45776	No
94	GOM_TRA_1PNPDE20101201_210941_000000463097_00072_45776_2550.N1	01-DEC-2010 21:09:41	Twilight	46.000	27	24Gam Ori	1.6360	26000.	92	45776	No
95	GOM_TRA_1PNPDE20101201_211200_000000543097_00072_45776_2551.N1	01-DEC-2010 21:12:00	Bright	54.000	13	87Alp Tau	0.86700	3800.0	108	45776	No
96	GOM_TRA_1PNPDE20101201_211338_000000383097_00072_45776_2552.N1	01-DEC-2010 21:13:38	Bright	38.000	146	25Eta Tau	2.8730	15200.	76	45776	No
97	GOM_TRA_1PNPDE20101201_211559_000000393097_00072_45776_2553.N1	01-DEC-2010 21:15:59	Bright	38.500	150	44Zet Per	2.8900	28000.	77	45776	No
98	GOM_TRA_1PNPDE20101201_211824_000000393097_00072_45776_2554.N1	01-DEC-2010 21:18:24	Bright	38.500	149	45Eps Per	2.8880	30000.	77	45776	No
99	GOM_TRA_1PNPDE20101201_212026_000000533097_00072_45776_2555.N1	01-DEC-2010 21:20:26	Bright	52.500	175	39Del Per	3.0100	19400.	105	45776	No
100	GOM_TRA_1PNPDE20101201_212209_000000513097_00072_45776_2556.N1	01-DEC-2010 21:22:09	Bright	51.000	6	13Alp Aur	0.080000	3400.0	102	45776	No
101	GOM_TRA_1PNPDE20101201_212355_000000513097_00072_45776_2557.N1	01-DEC-2010 21:23:55	Bright	50.500	42	34Bet Aur	1.9000	10200.	101	45776	No
102	GOM_TRA_1PNPDE20101201_213822_000000433097_00072_45776_2558.N1	01-DEC-2010 21:38:22	Bright	42.500	36	50Alp UMa	1.8000	6300.0	85	45776	No
103	GOM_TRA_1PNPDE20101201_213958_000000483097_00072_45776_2559.N1	01-DEC-2010 21:39:58	Bright	47.500	82	48Bet UMa	2.3650	10600.	95	45776	No
104	GOM_TRA_1PNPDE20101201_214138_000000403097_00072_45776_2560.N1	01-DEC-2010 21:41:38	Bright	39.500	32	77Eps UMa	1.7630	11000.	79	45776	No
105	GOM_TRA_1PNPDE20101201_214427_000000353097_00072_45776_2561.N1	01-DEC-2010 21:44:27	Twilight	35.000	174	52Psi UMa	3.0040	4400.0	70	45776	No
106	GOM_TRA_1PNPDE20101201_214712_000000393097_00072_45776_2562.N1	01-DEC-2010 21:47:12	Bright	38.500	152	12Alp2CVn	2.8900	11000.	77	45776	No
107	GOM_TRA_1PNPDE20101201_215650_000000583097_00072_45776_2563.N1	01-DEC-2010 21:56:50	Bright	58.000	62	94Bet Leo	2.1360	9700.0	116	45776	No
108	GOM_TRA_1PNPDE20101201_220008_000000633097_00072_45776_2564.N1	01-DEC-2010 22:00:08	Bright	62.500	121	29Gam Vir	2.7400	7200.0	125	45776	No
109	GOM_TRA_1PNPDE20101201_220549_000000493097_00072_45776_2587.N1	01-DEC-2010 22:05:49	Twilight	49.000	100	4Gam Crv	2.5800	13100.	98	45776	No
110	GOM_TRA_1PNPDE20101201_220724_000000523097_00072_45776_2588.N1	01-DEC-2010 22:07:24	Dark	51.500	171	2Eps Crv	3.0010	4250.0	103	45776	No
111	GOM_TRA_1PNPDE20101201_221650_000000453097_00073_45777_2589.N1	01-DEC-2010 22:16:50	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	45777	No
112	GOM_TRA_1PNPDE20101201_222526_000000493097_00073_45777_2590.N1	01-DEC-2010 22:25:26	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	45777	No
113	GOM_TRA_1PNPDE20101201_222844_000000553097_00073_45777_2591.N1	01-DEC-2010 22:28:44	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	45777	No
114	GOM_TRA_1PNPDE20101201_223038_000000563097_00073_45777_2592.N1	01-DEC-2010 22:30:38	Dark	55.500	117	Pi Pup	2.7060	3800.0	111	45777	No
115	GOM_TRA_1PNPDE20101201_223506_000000483097_00073_45777_2593.N1	01-DEC-2010 22:35:06	Dark	48.000	108	Alp Col	2.6520	15200.	96	45777	No
116	GOM_TRA_1PNPDE20101201_224045_000000523097_00073_45777_2594.N1	01-DEC-2010 22:40:45	Straylight	51.500	101	11Alp Lep	2.5820	7000.0	103	45777	No
117	GOM_TRA_1PNPDE20101201_224418_000000623097_00073_45777_2595.N1	01-DEC-2010 22:44:18	Straylight	61.500	7	19Bet Ori	0.10000	14000.	123	45777	No
118	GOM_TRA_1PNPDE20101201_224730_000000333097_00073_45777_2596.N1	01-DEC-2010 22:47:30	Twilight	33.000	72	34Del Ori	2.2500	30000.	66	45777	No
119	GOM_TRA_1PNPDE20101201_224955_000000463097_00073_45777_2597.N1	01-DEC-2010 22:49:55	Twilight	46.000	27	24Gam Ori	1.6360	26000.	92	45777	No
120	GOM_TRA_1PNPDE20101201_225213_000000563097_00073_45777_2598.N1	01-DEC-2010 22:52:13	Bright	55.500	13	87Alp Tau	0.86700	3800.0	111	45777	No
121	GOM_TRA_1PNPDE20101201_225352_000000403097_00073_45777_2599.N1	01-DEC-2010 22:53:52	Bright	39.500	146	25Eta Tau	2.8730	15200.	79	45777	No
122	GOM_TRA_1PNPDE20101201_225613_000000393097_00073_45777_2600.N1	01-DEC-2010 22:56:13	Bright	38.500	150	44Zet Per	2.8900	28000.	77	45777	No
123	GOM_TRA_1PNPDE20101201_225837_000000383097_00073_45777_2601.N1	01-DEC-2010 22:58:37	Bright	37.500	149	45Eps Per	2.8880	30000.	75	45777	No
124	GOM_TRA_1PNPDE20101201_230039_000000363097_00073_45777_2602.N1	01-DEC-2010 23:00:39	Bright	35.500	175	39Del Per	3.0100	19400.	71	45777	No
125	GOM_TRA_1PNPDE20101201_230223_000000473097_00073_45777_2603.N1	01-DEC-2010 23:02:23	Bright	47.000	6	13Alp Aur	0.080000	3400.0	94	45777	No
126	GOM_TRA_1PNPDE20101201_230407_000000523097_00073_45777_2604.N1	01-DEC-2010 23:04:07	Bright	51.500	42	34Bet Aur	1.9000	10200.	103	45777	No
127	GOM_TRA_1PNPDE20101201_231836_000000463097_00073_45777_2605.N1	01-DEC-2010 23:18:36	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	45777	No

128	GOM_TRA_1PNPDE20101201_232011_000000483097_00073_45777_2606.N1	01-DEC-2010 23:20:11	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	45777	No
129	GOM_TRA_1PNPDE20101201_232152_000000403097_00073_45777_2607.N1	01-DEC-2010 23:21:52	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	45777	No
130	GOM_TRA_1PNPDE20101201_232441_000000353097_00073_45777_2608.N1	01-DEC-2010 23:24:41	Twilight_stray	35.000	174	52Psi UMa	3.0040	4400.0	70	45777	No
131	GOM_TRA_1PNPDE20101201_232726_000000403097_00073_45777_2609.N1	01-DEC-2010 23:27:26	Bright	39.500	152	12Alp2CVn	2.8900	11000.	79	45777	No
132	GOM_TRA_1PNPDE20101201_233705_000000573097_00073_45777_2610.N1	01-DEC-2010 23:37:05	Bright	56.500	62	94Bet Leo	2.1360	9700.0	113	45777	No
133	GOM_TRA_1PNPDE20101201_234022_000000573097_00073_45777_2611.N1	01-DEC-2010 23:40:22	Bright	56.500	121	29Gam Vir	2.7400	7200.0	113	45777	No
134	GOM_TRA_1PNPDE20101201_234603_000000503097_00073_45777_2638.N1	01-DEC-2010 23:46:03	Dark	50.000	100	4Gam Crv	2.5800	13100.	100	45777	No
135	GOM_TRA_1PNPDE20101201_234739_000000493097_00073_45777_2639.N1	01-DEC-2010 23:47:39	Dark	49.000	171	2Eps Crv	3.0010	4250.0	98	45777	No
136	GOM_TRA_1PNPDE20101201_235705_000000463097_00074_45778_2640.N1	01-DEC-2010 23:57:05	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	45778	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.

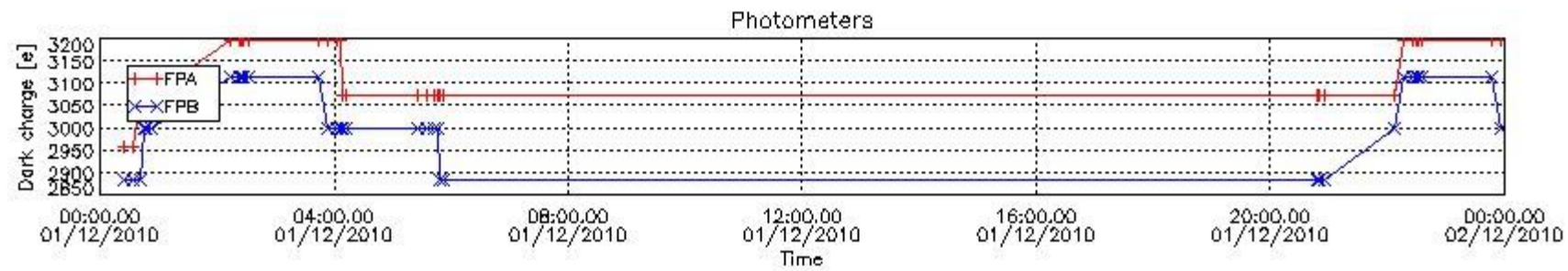
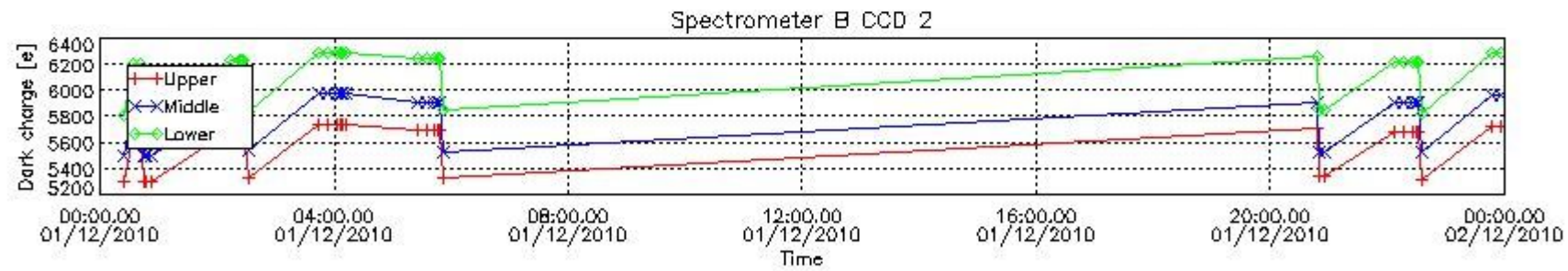
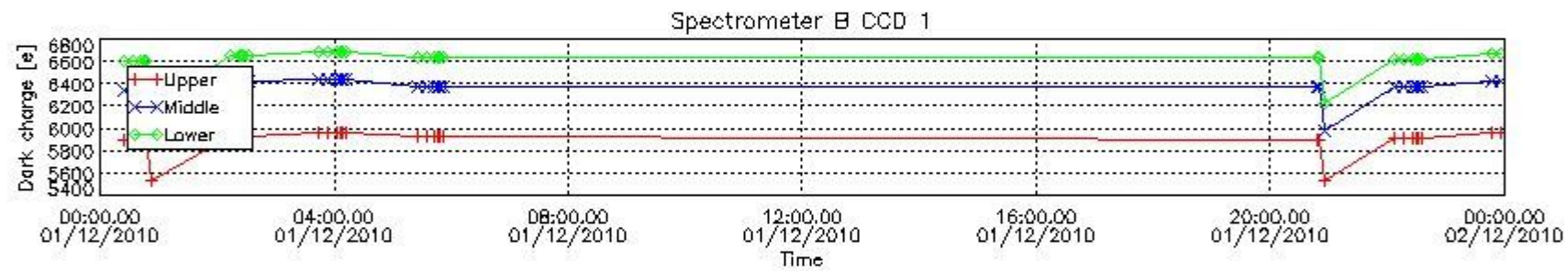
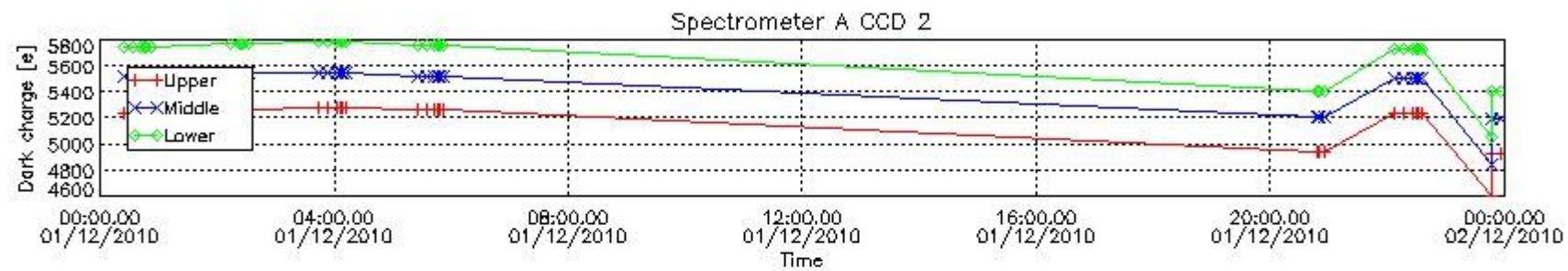
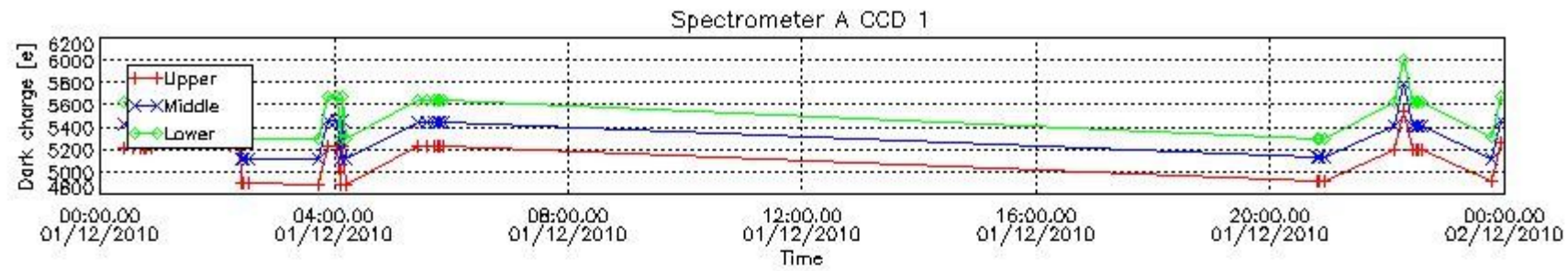
#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20101201_204829_000000503097_00072_45776_2544.N1	DC map used

GOM_TRA_1PNPDE20101201_205023_000000613097_00072_45776_2545.N1	DC map used
GOM_TRA_1PNPDE20101201_205452_000000473097_00072_45776_2546.N1	DC map used
GOM_TRA_1PNPDE20101201_210030_000000543097_00072_45776_2547.N1	DC map used
GOM_TRA_1PNPDE20101201_210404_000000583097_00072_45776_2548.N1	DC map used
GOM_TRA_1PNPDE20101201_210717_000000333097_00072_45776_2549.N1	DC map used
GOM_TRA_1PNPDE20101201_210941_000000463097_00072_45776_2550.N1	DC map used
GOM_TRA_1PNPDE20101201_211200_000000543097_00072_45776_2551.N1	DC map used
GOM_TRA_1PNPDE20101201_211338_000000383097_00072_45776_2552.N1	DC map used
GOM_TRA_1PNPDE20101201_211559_000000393097_00072_45776_2553.N1	DC map used
GOM_TRA_1PNPDE20101201_211824_000000393097_00072_45776_2554.N1	DC map used
GOM_TRA_1PNPDE20101201_212026_000000533097_00072_45776_2555.N1	DC map used
GOM_TRA_1PNPDE20101201_212209_000000513097_00072_45776_2556.N1	DC map used
GOM_TRA_1PNPDE20101201_212355_000000513097_00072_45776_2557.N1	DC map used
GOM_TRA_1PNPDE20101201_213822_000000433097_00072_45776_2558.N1	DC map used
GOM_TRA_1PNPDE20101201_213958_000000483097_00072_45776_2559.N1	DC map used
GOM_TRA_1PNPDE20101201_214138_000000403097_00072_45776_2560.N1	DC map used
GOM_TRA_1PNPDE20101201_214427_000000353097_00072_45776_2561.N1	DC map used
GOM_TRA_1PNPDE20101201_214712_000000393097_00072_45776_2562.N1	DC map used
GOM_TRA_1PNPDE20101201_215650_000000583097_00072_45776_2563.N1	DC map used
GOM_TRA_1PNPDE20101201_220008_000000633097_00072_45776_2564.N1	DC map used

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





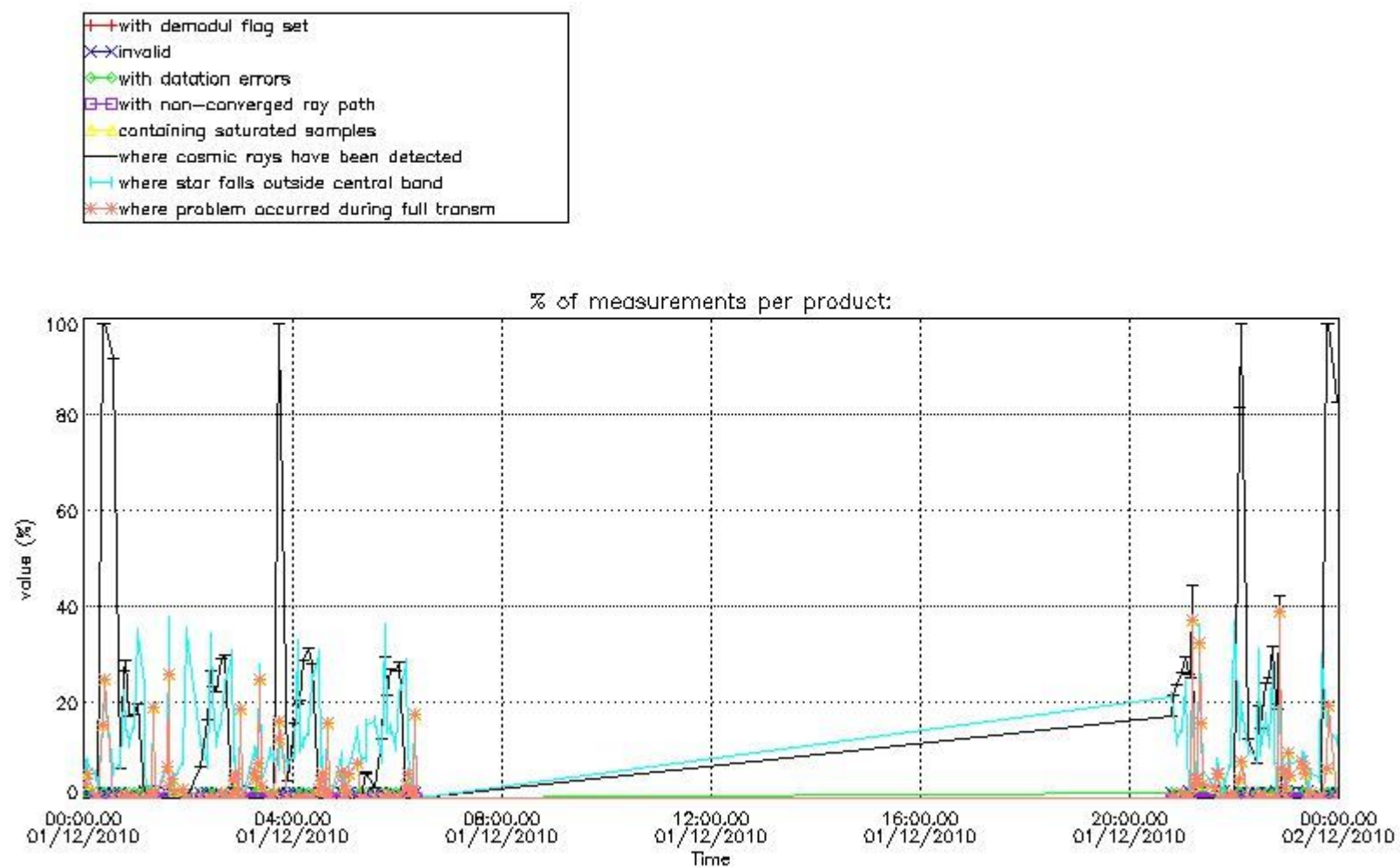
## 5. Demodulation flag and quality information monitoring

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

### 5.1 Percentage of products during reporting period with:

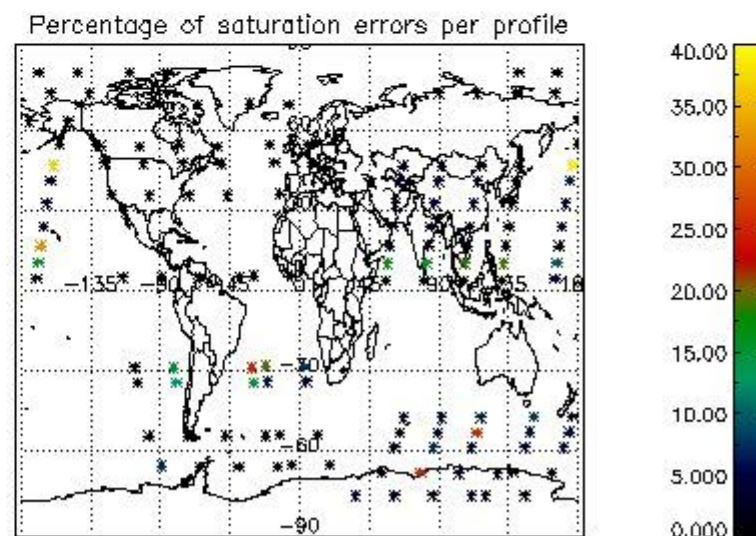
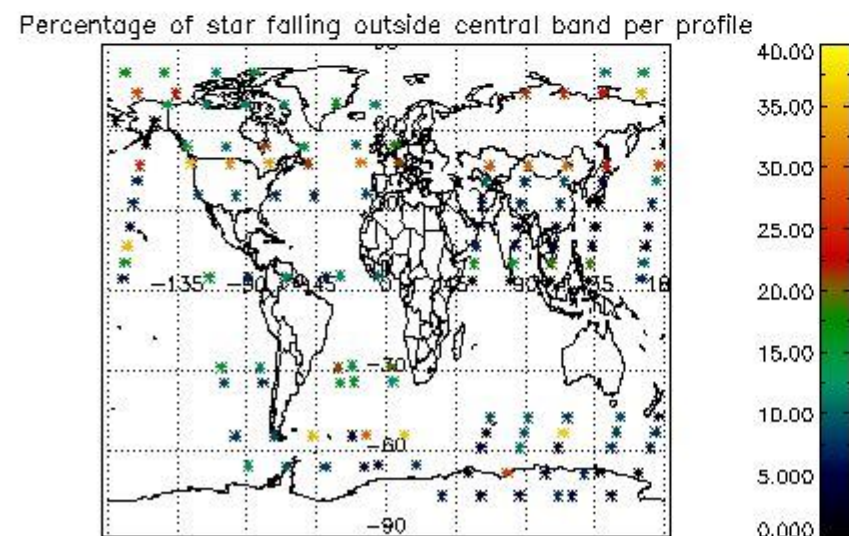
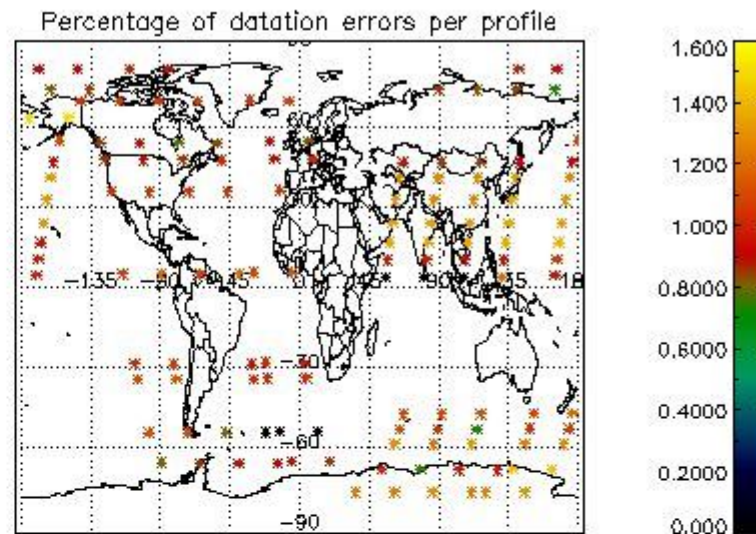
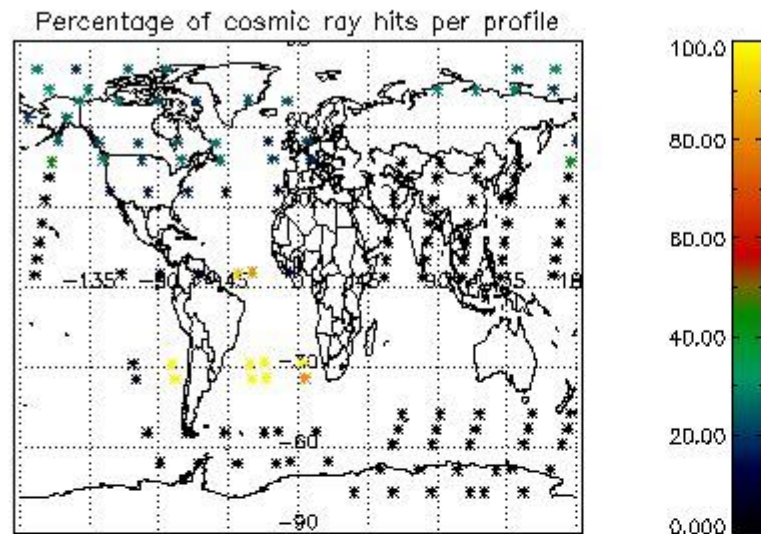
At least one measurement with demodulation flag set:	40.4412 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





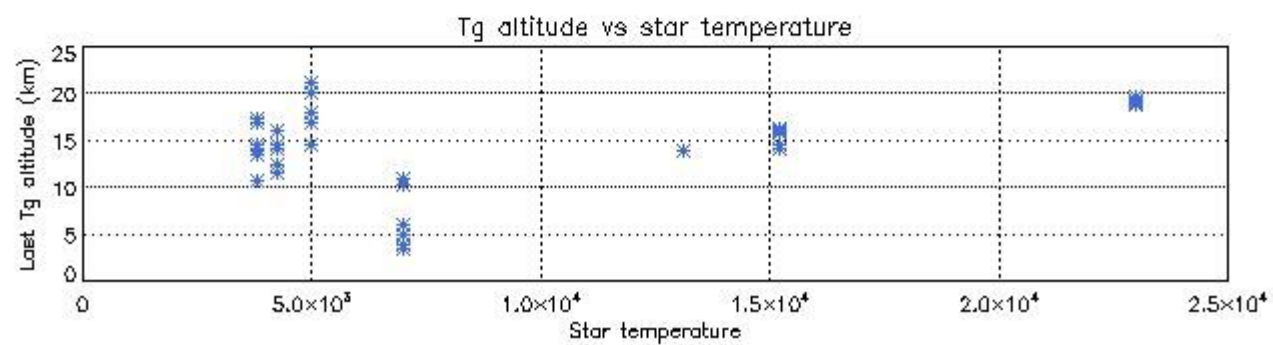
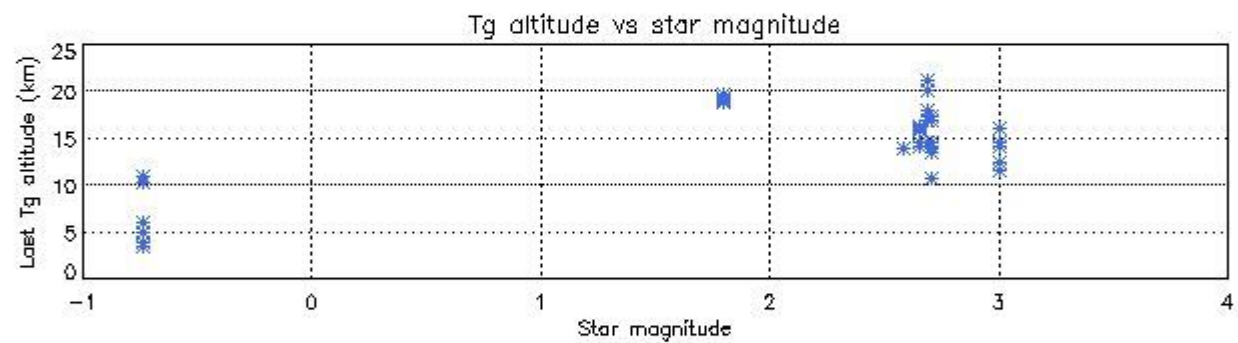
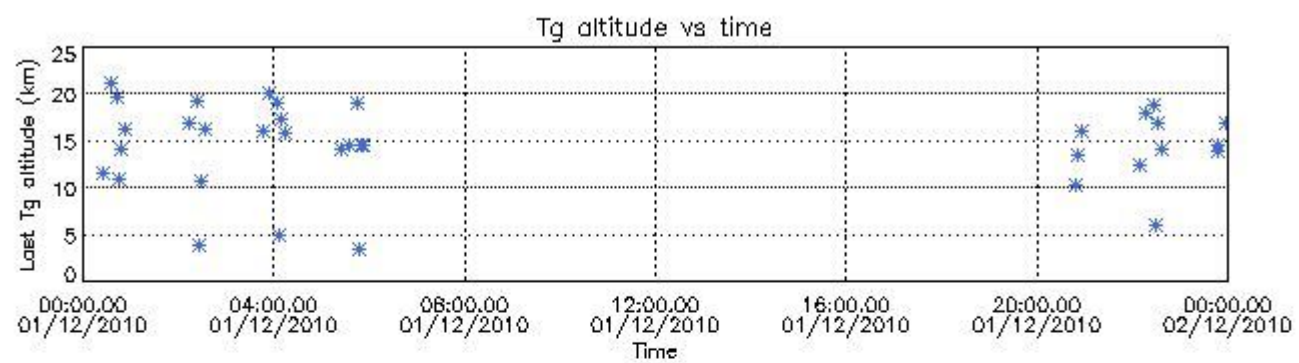
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.430	19.104	16.875
St. deviation:	4.5331	6.8231	2.8886
Maximum:	21.169	40.601	20.670
Minimum:	3.3203	3.4882	14.476
Number of data:	35.000	79.000	4.0000

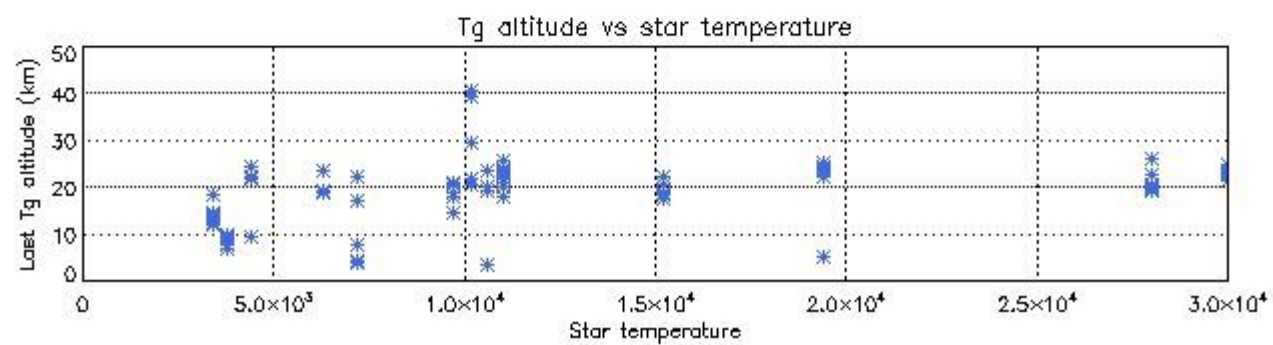
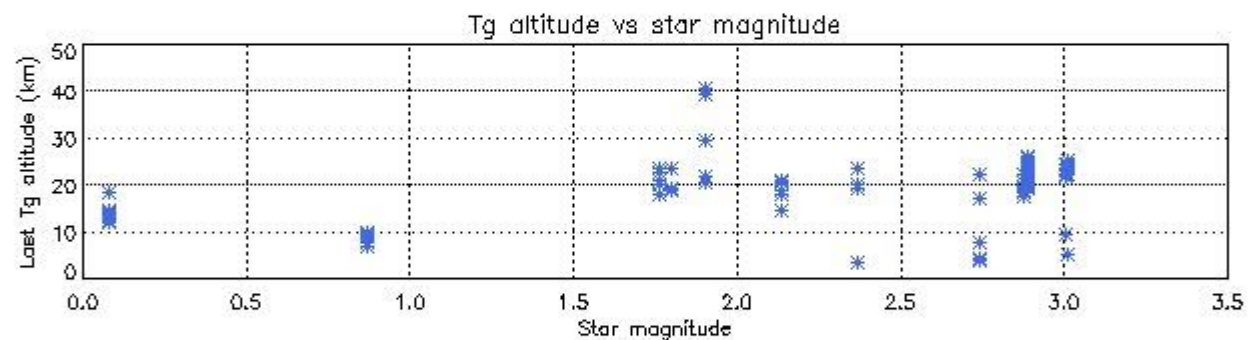
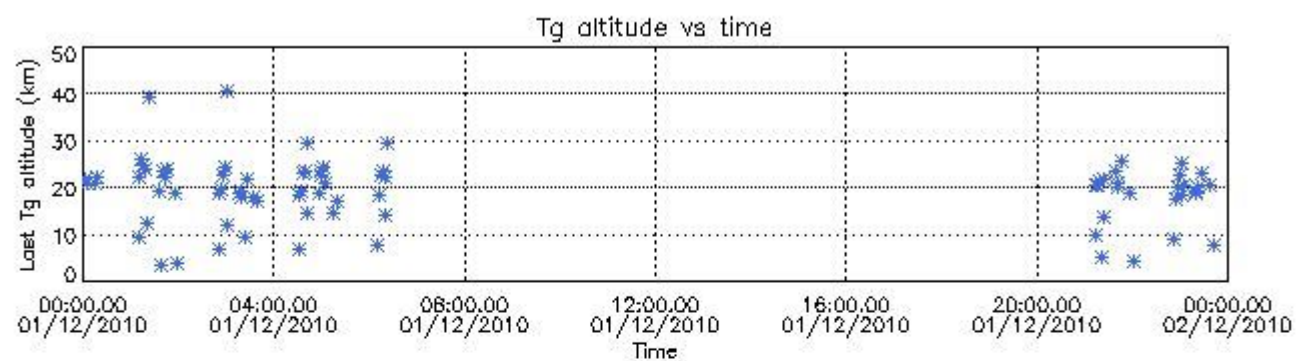
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

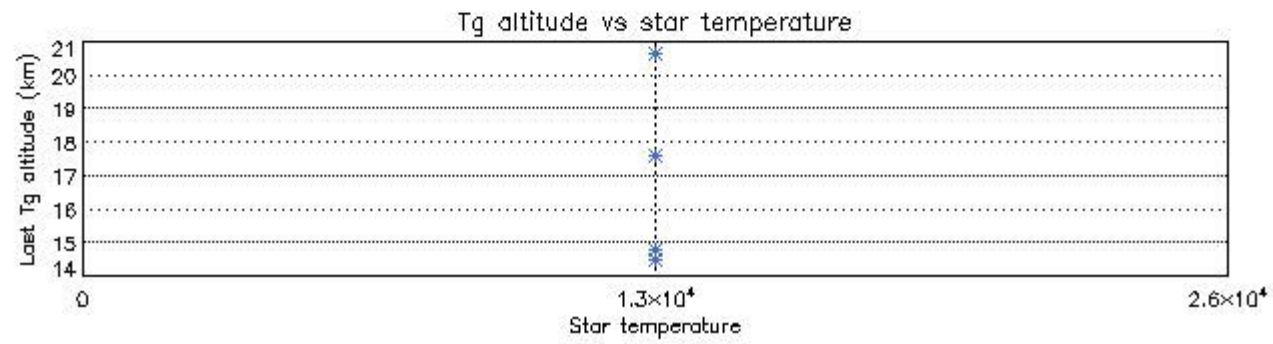
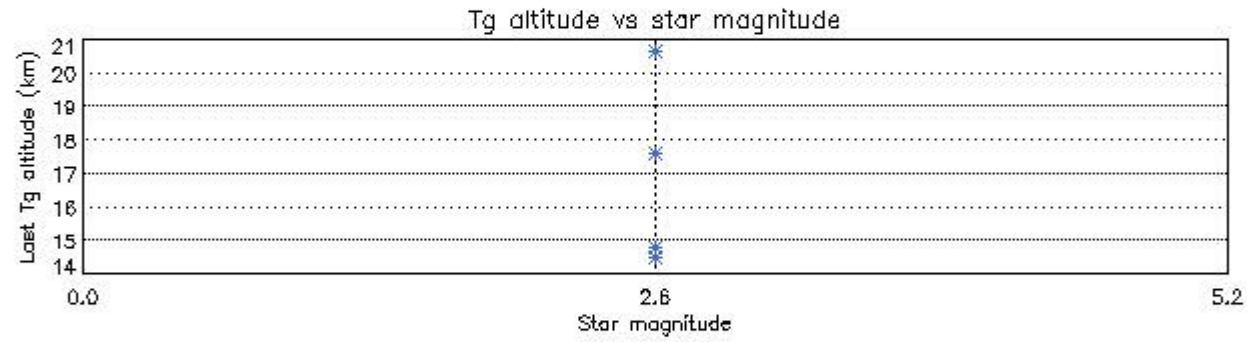
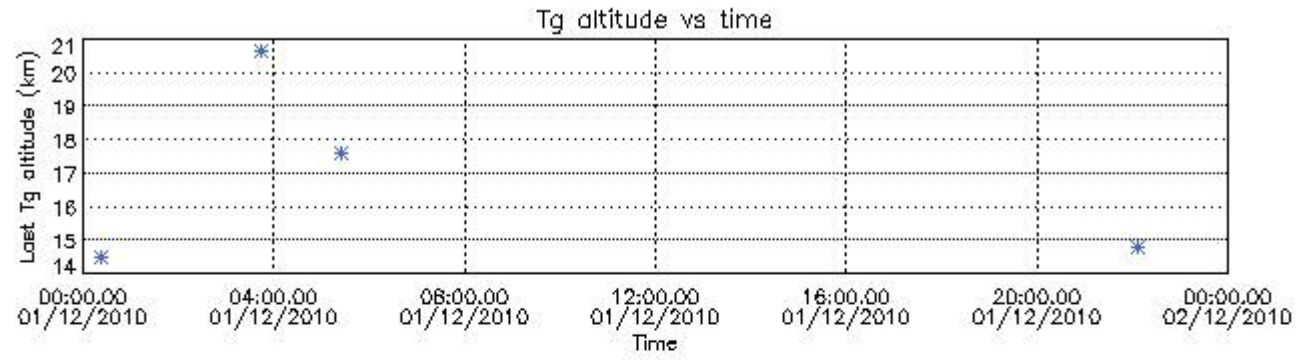
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



Tangent altitude at which the star is lost

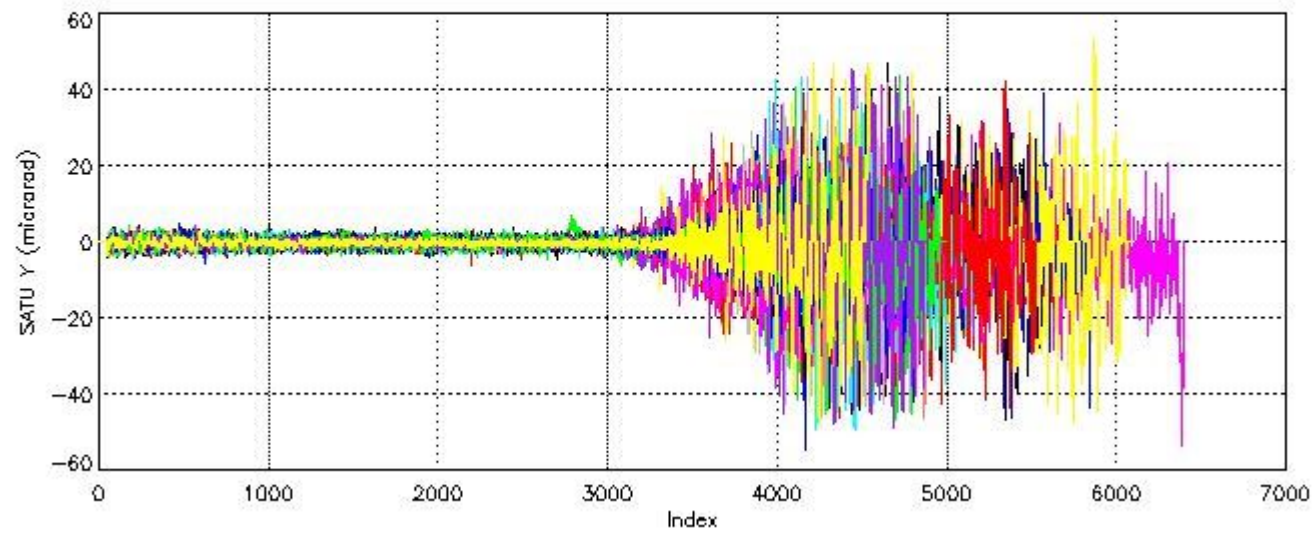
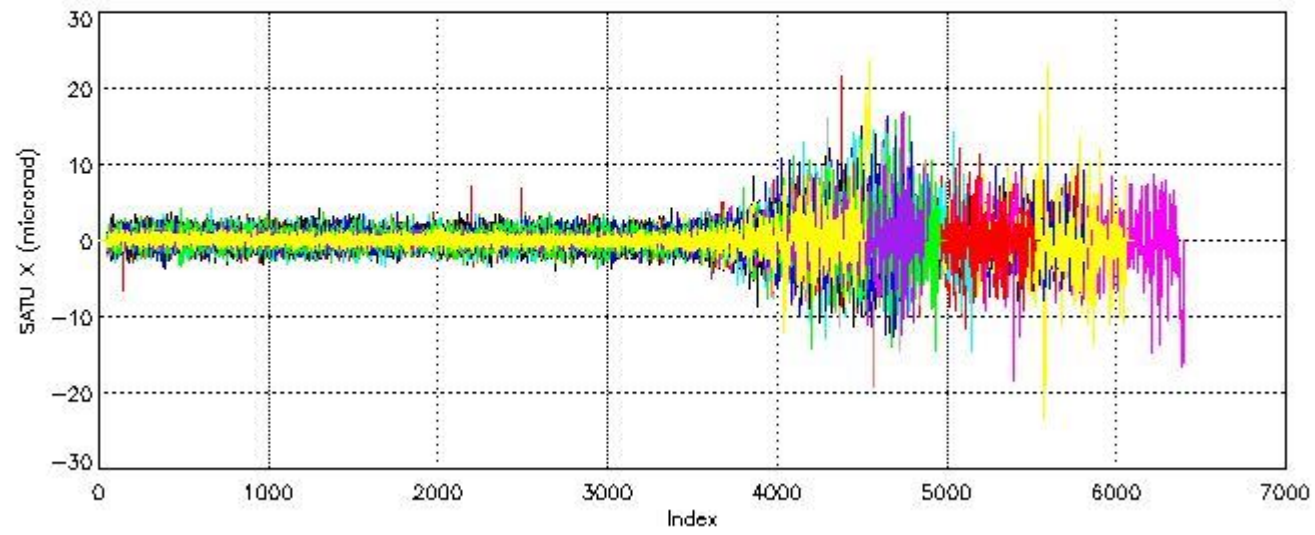


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.21409	-0.32263	0.20273	-0.29904
St. deviation:	0.52872	0.89824	0.94047	1.2114
Maximum:	4.3000	4.5000	6.8000	7.9000
Minimum:	-6.6000	-5.7000	-6.6000	-8.6000

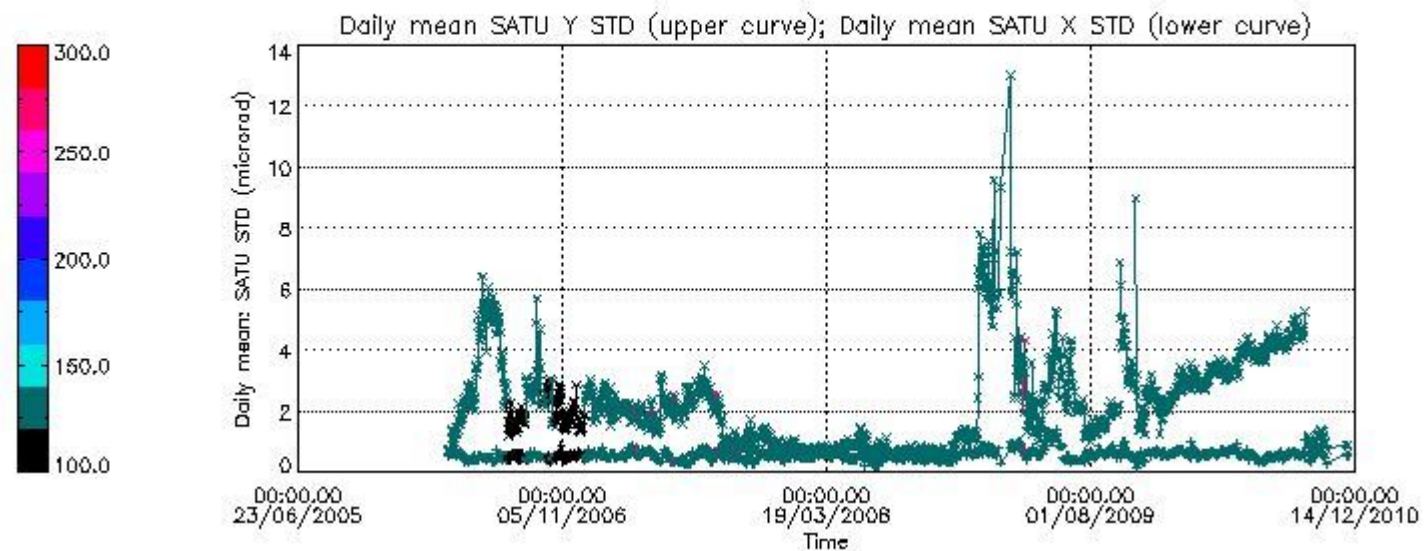
Number of data:	39000.	39000.	82050.	82050.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

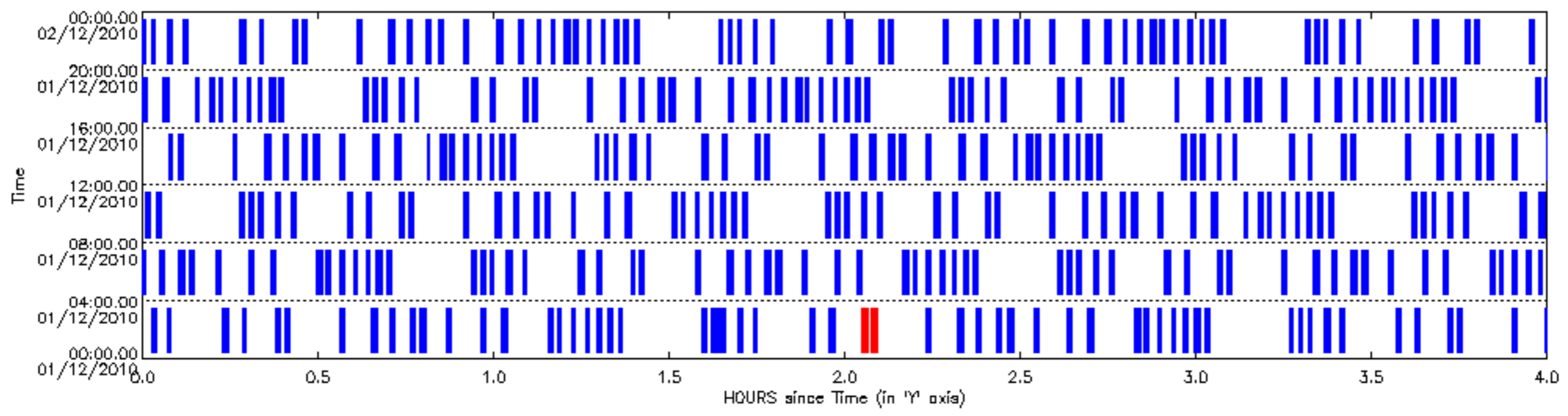


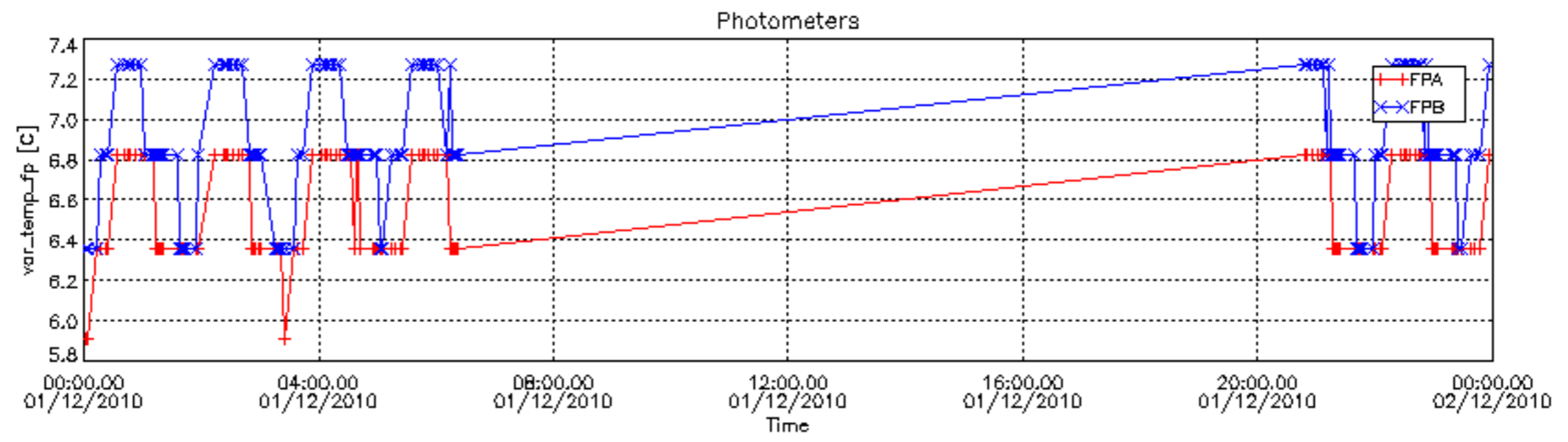
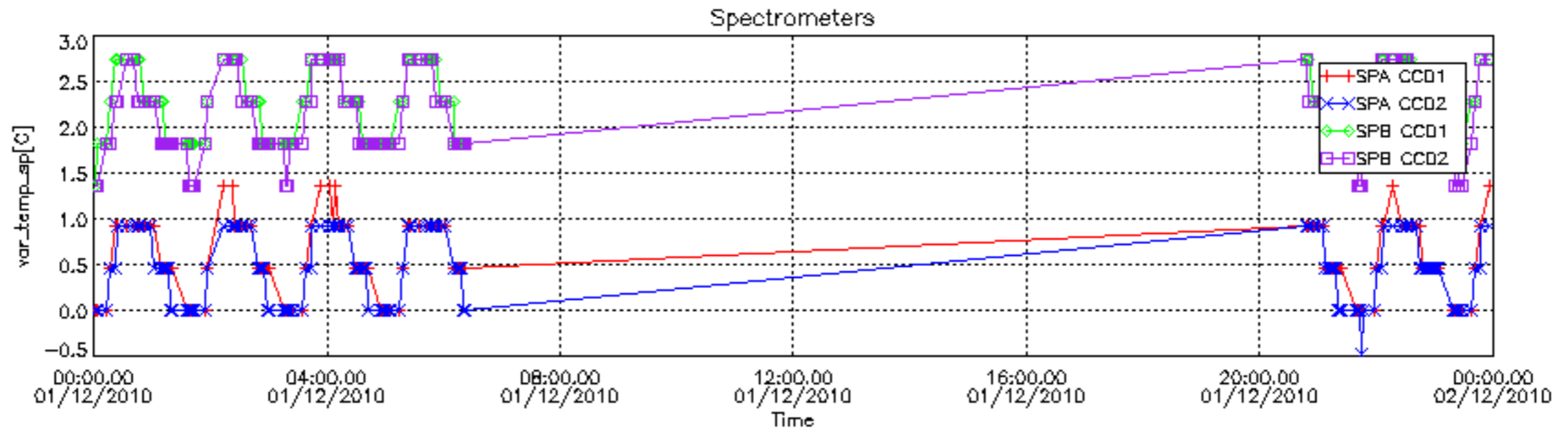
### 8. Auxiliary Data Files used for the production reported in section 2.4

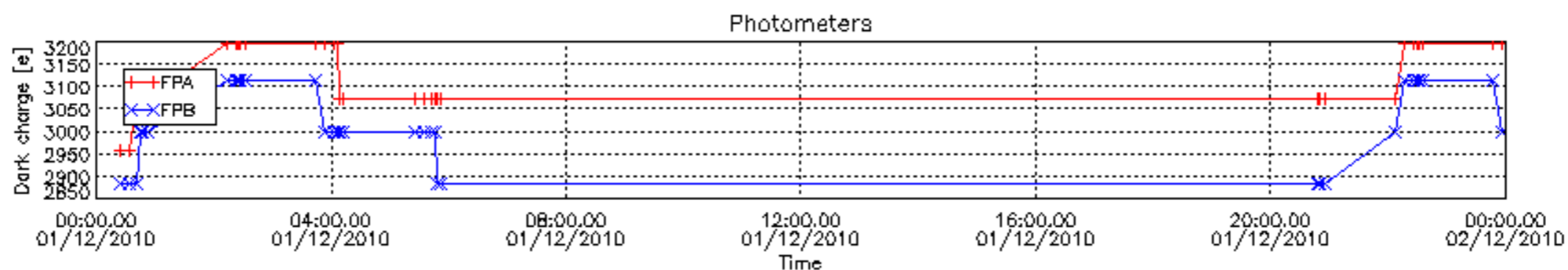
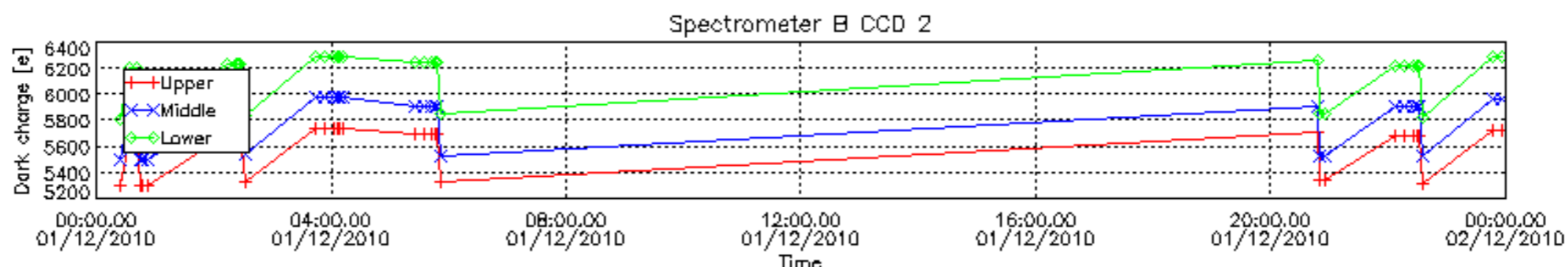
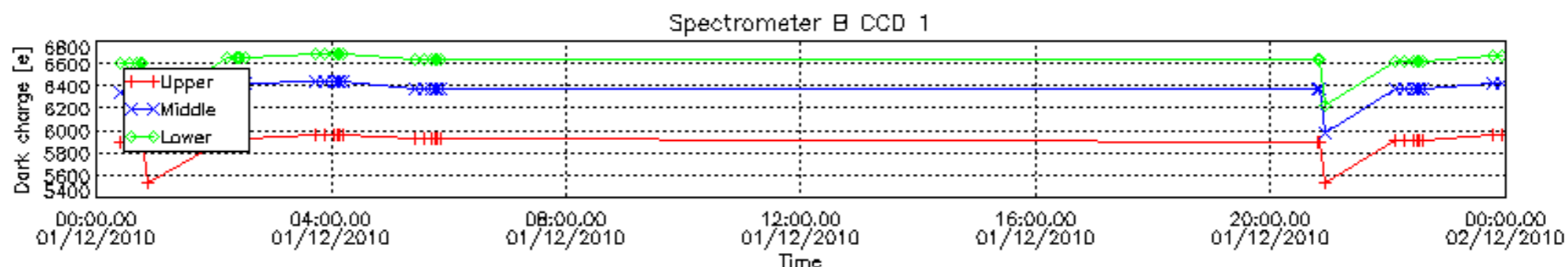
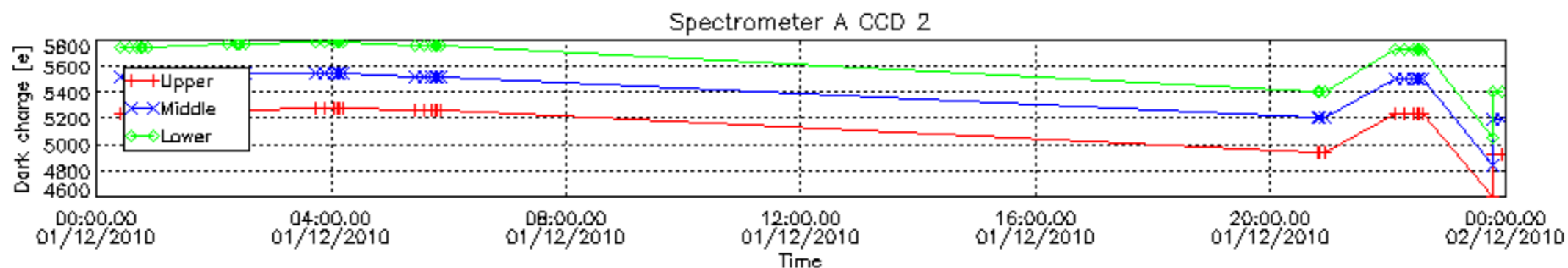
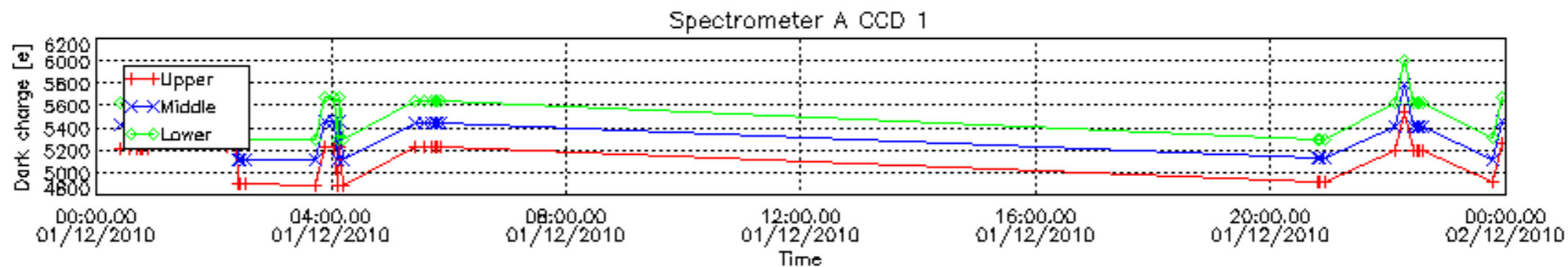
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	01-DEC-2010 00:01:28
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101020_091716_20101018_000000_20500101_000000	1	01-DEC-2010 00:01:28
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101201_093519_20101129_000000_20500101_000000	88	01-DEC-2010 20:48:29
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	01-DEC-2010 00:01:28
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-DEC-2010 00:01:28
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	01-DEC-2010 00:01:28
ECMWF_FILE	AUX_ECF_AXNECM20101130_054114_20101130_210000_20101201_090000	1	01-DEC-2010 00:01:28
ECMWF_FILE	AUX_ECF_AXNECM20101130_172301_20101201_030000_20101201_150000	42	01-DEC-2010 03:15:52
ECMWF_FILE	AUX_ECA_AXNECM20101201_052115_20101130_210000_20101201_090000	65	01-DEC-2010 04:56:05
ECMWF_FILE	AUX_ECF_AXNECM20101201_054115_20101201_150000_20101202_030000	88	01-DEC-2010 20:48:29
ECMWF_FILE	AUX_ECF_AXNECM20101201_054116_20101201_210000_20101202_090000	109	01-DEC-2010 22:05:49
OPTIONAL_ECMWF_FILE	MISSING	1	01-DEC-2010 00:01:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101130_223940_000054193097_00058_45762_2032.N1	1	01-DEC-2010 00:01:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101201_001518_000057383097_00059_45763_2033.N1	5	01-DEC-2010 00:22:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101201_015615_000041443097_00060_45764_2034.N1	27	01-DEC-2010 01:57:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101201_031038_000057383097_00061_45765_2035.N1	42	01-DEC-2010 03:15:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101201_045135_000057383097_00062_45766_2036.N1	65	01-DEC-2010 04:56:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101201_204757_000041443097_00072_45776_2037.N1	88	01-DEC-2010 20:48:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101201_220220_000057383097_00072_45776_2038.N1	109	01-DEC-2010 22:05:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101201_234317_000054193097_00073_45777_2039.N1	134	01-DEC-2010 23:46:03

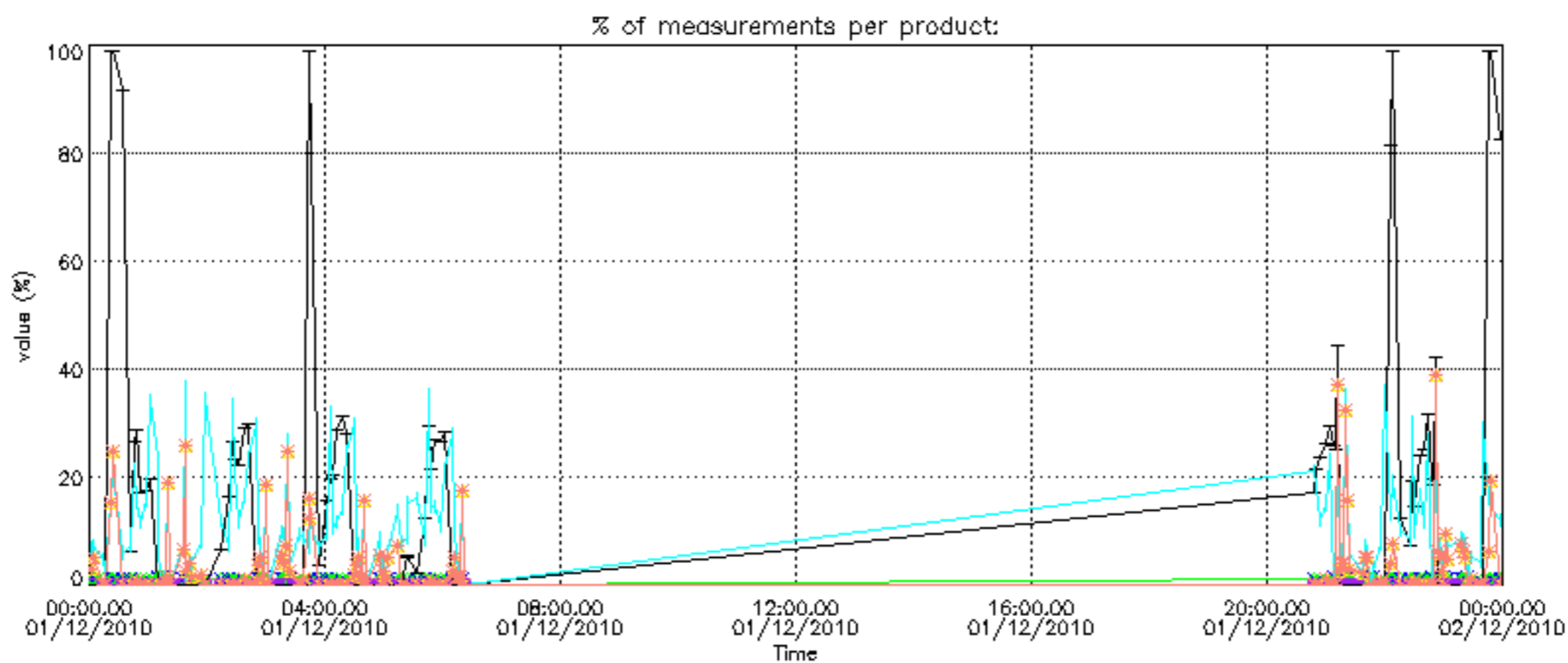




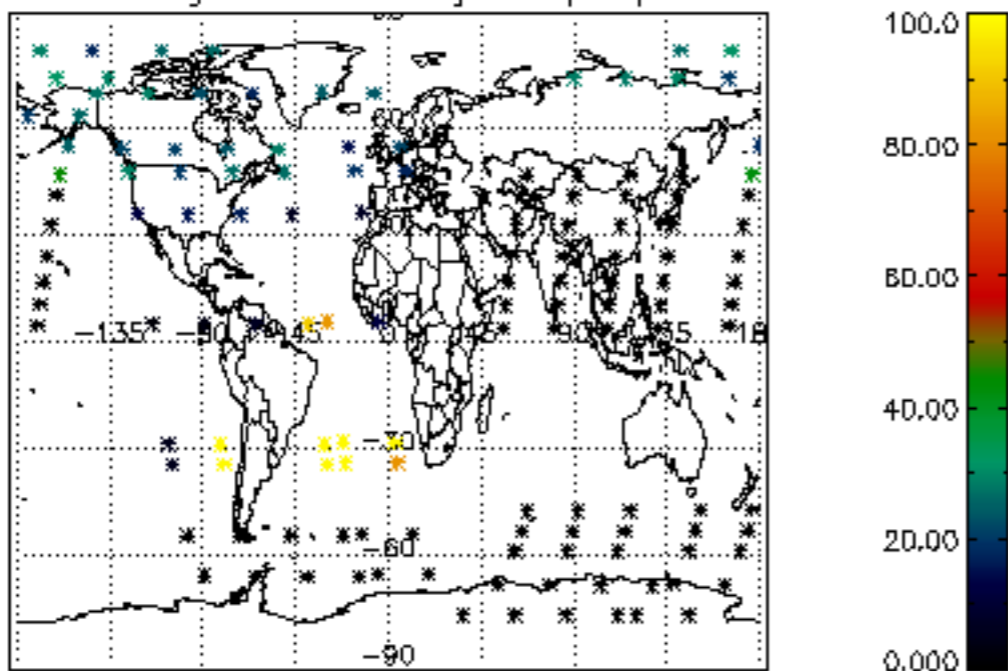




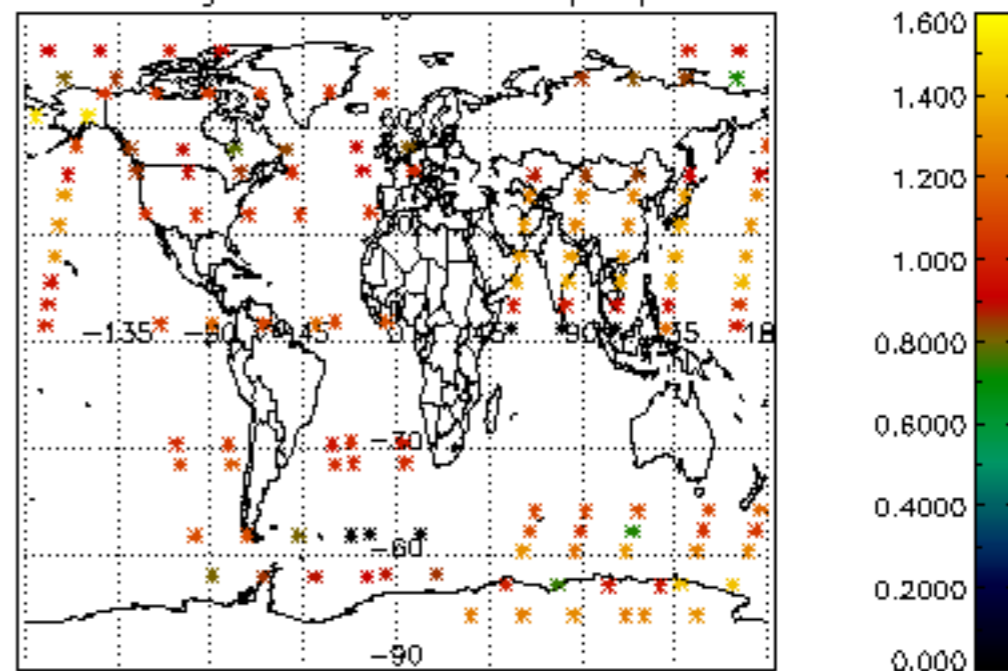




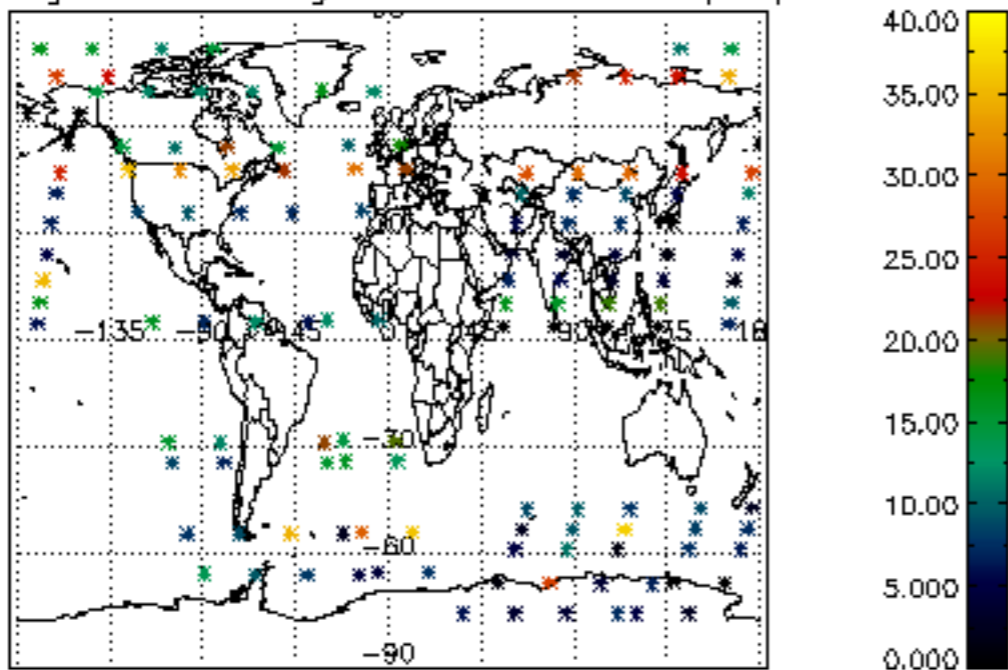
Percentage of cosmic ray hits per profile



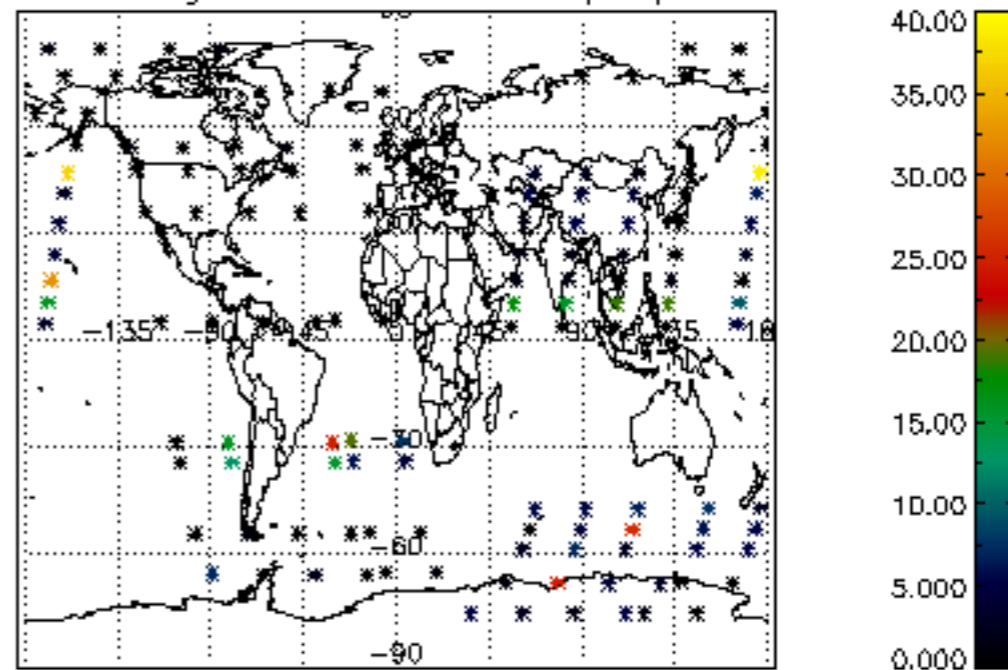
Percentage of datation errors per profile



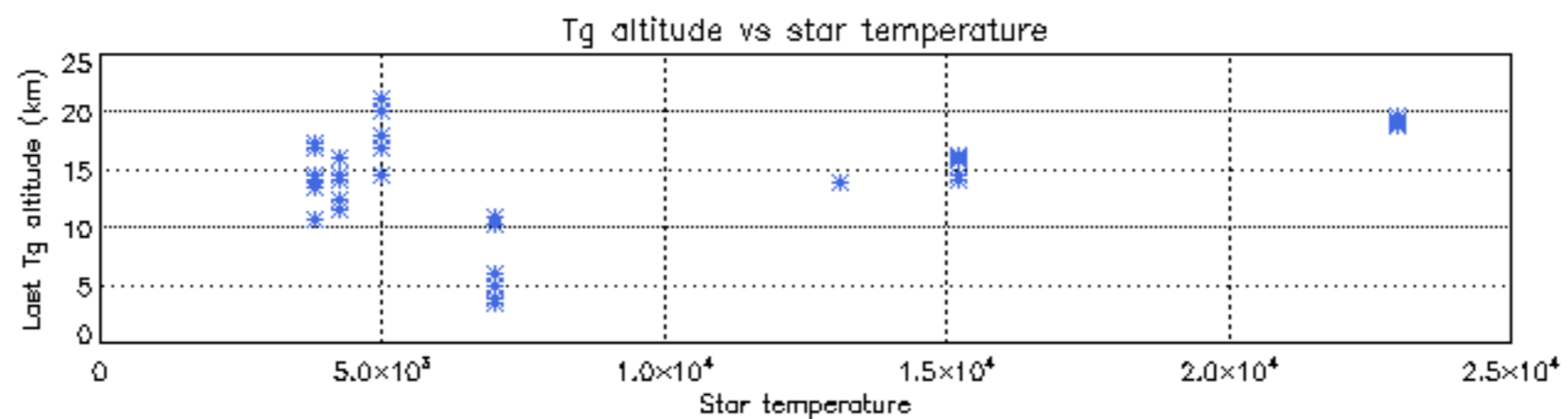
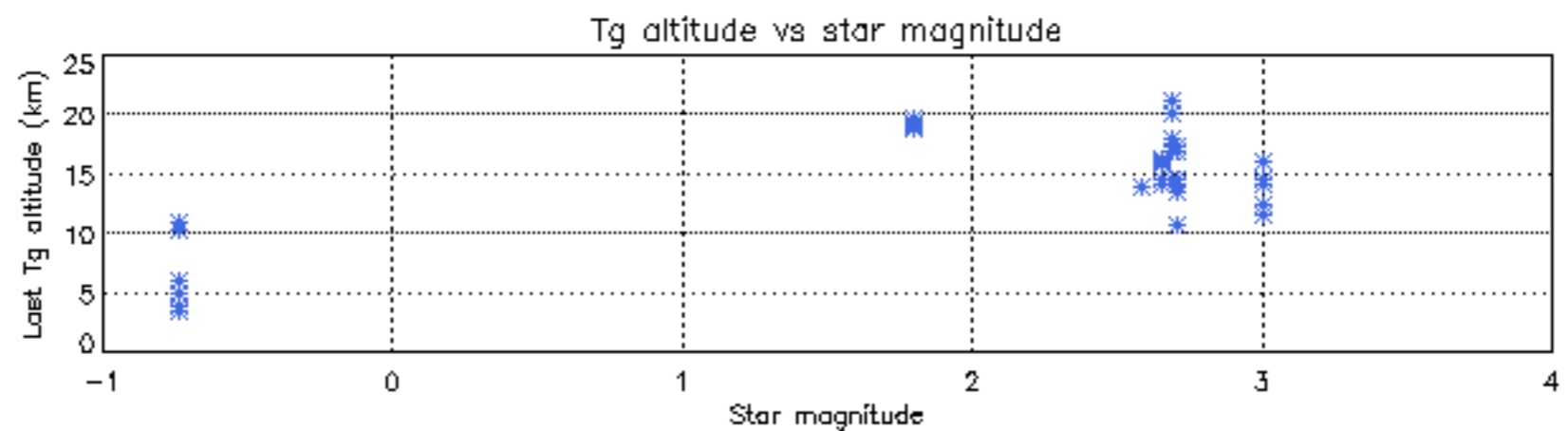
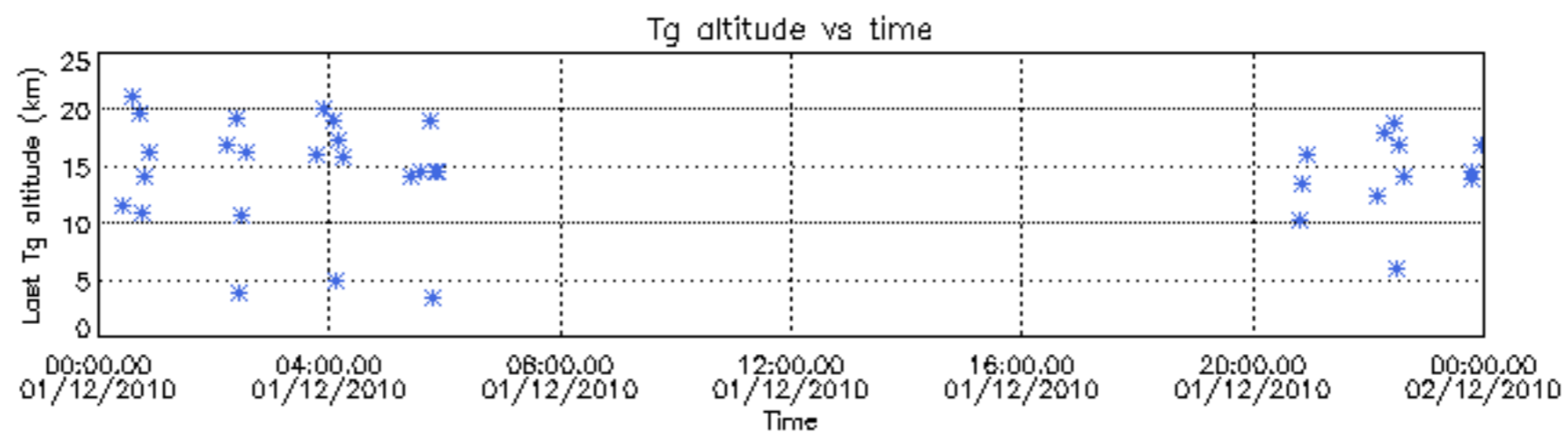
Percentage of star falling outside central band per profile



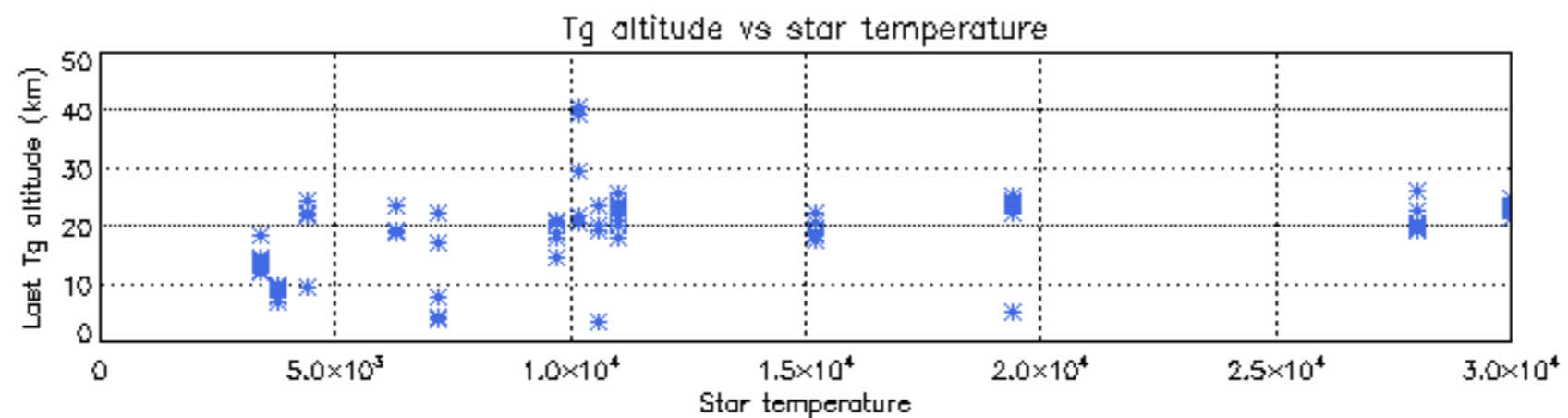
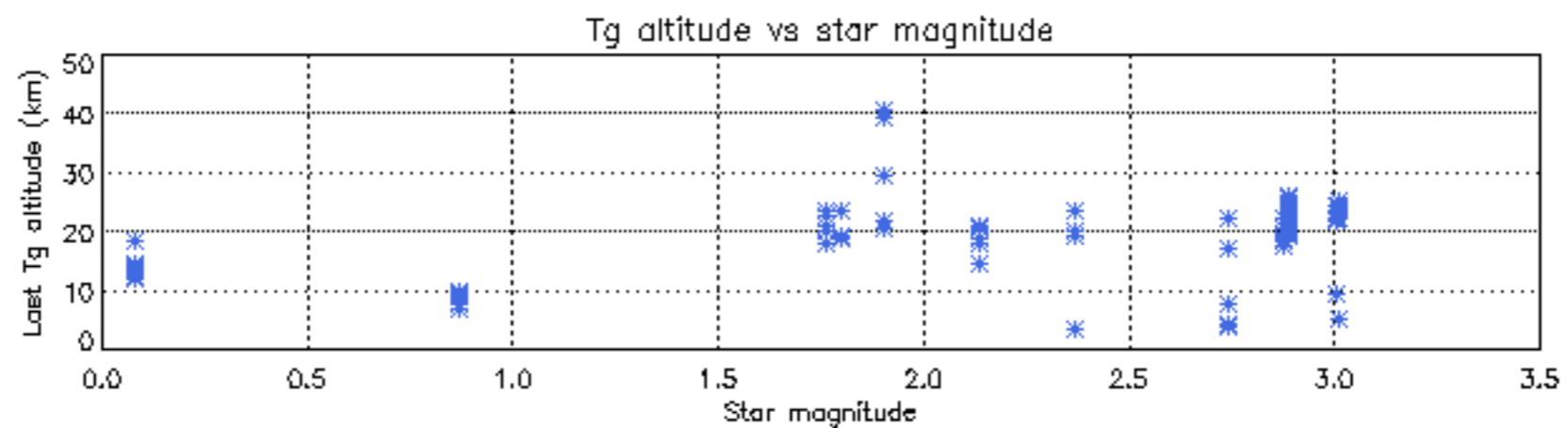
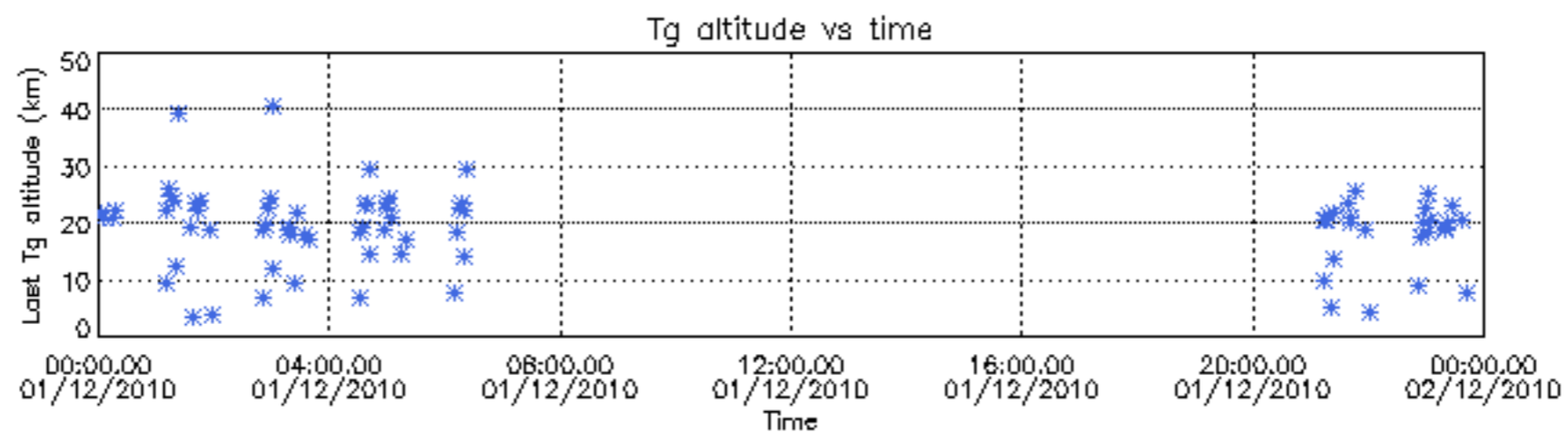
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

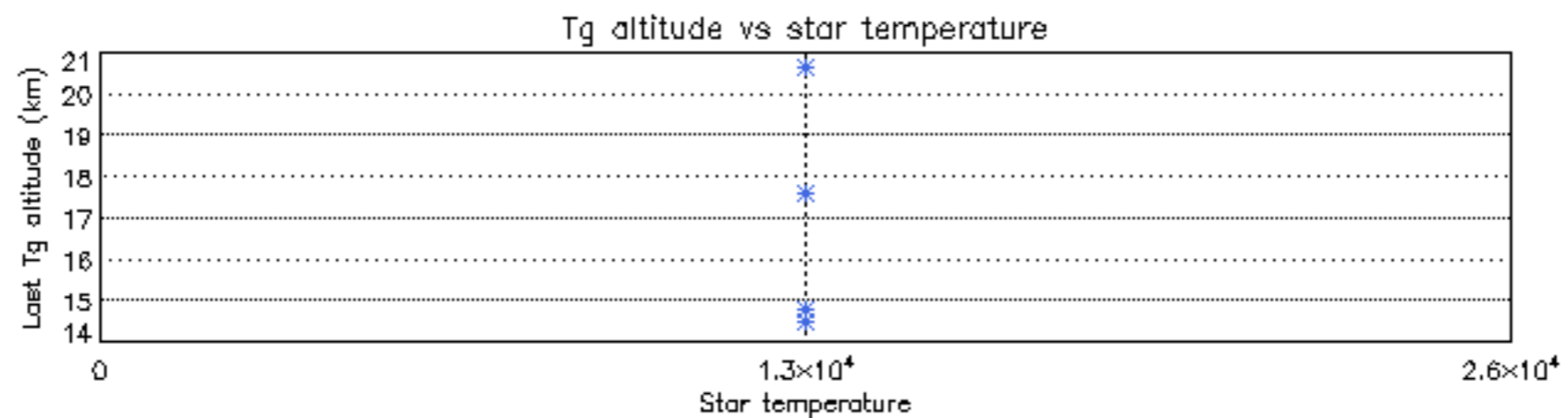
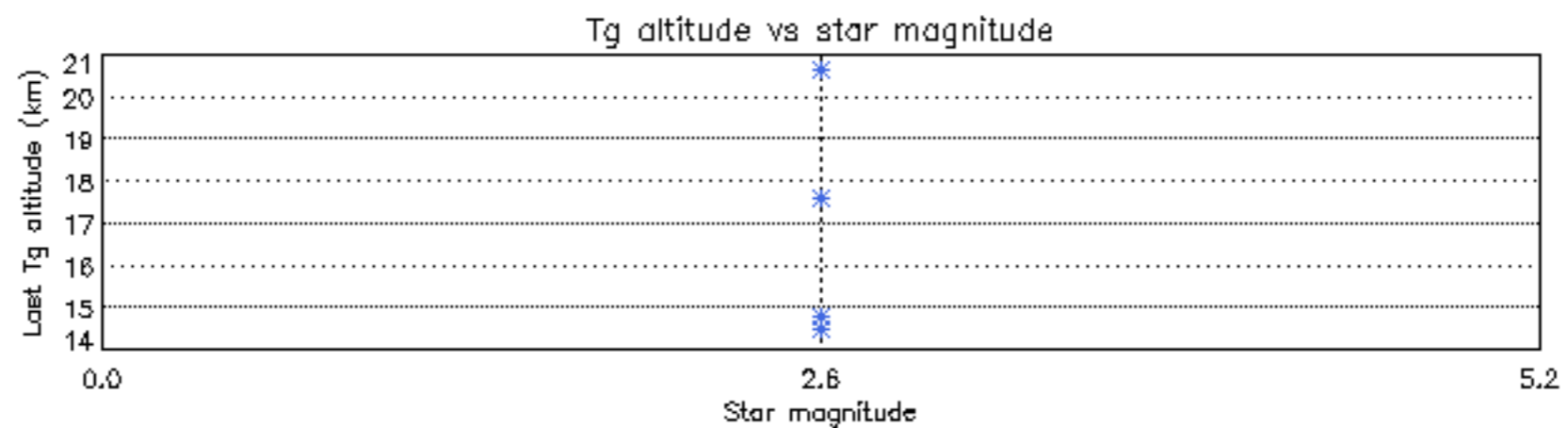
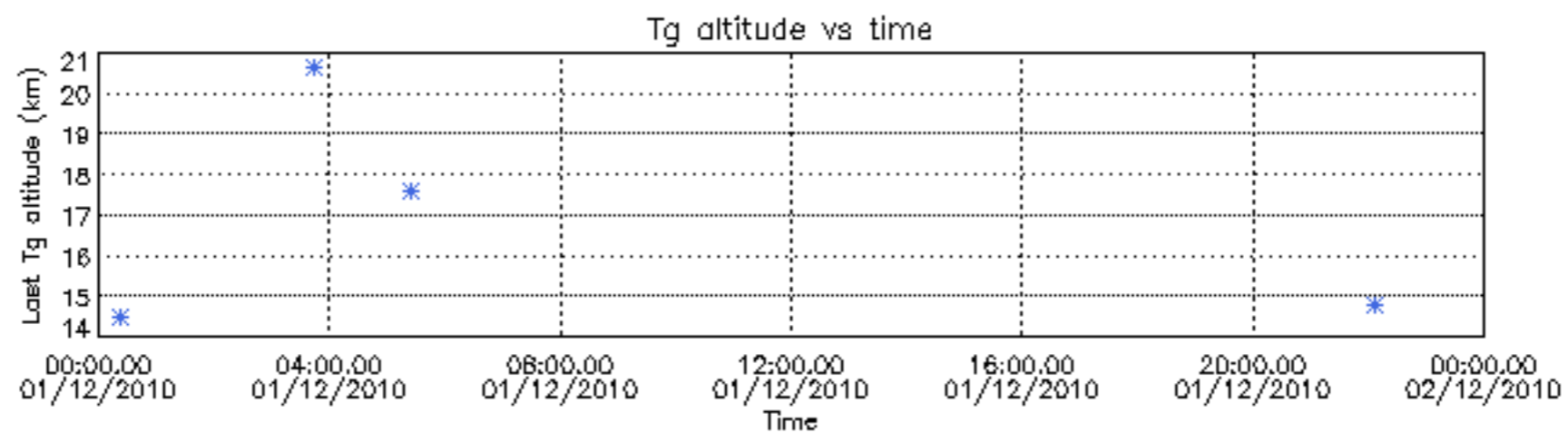


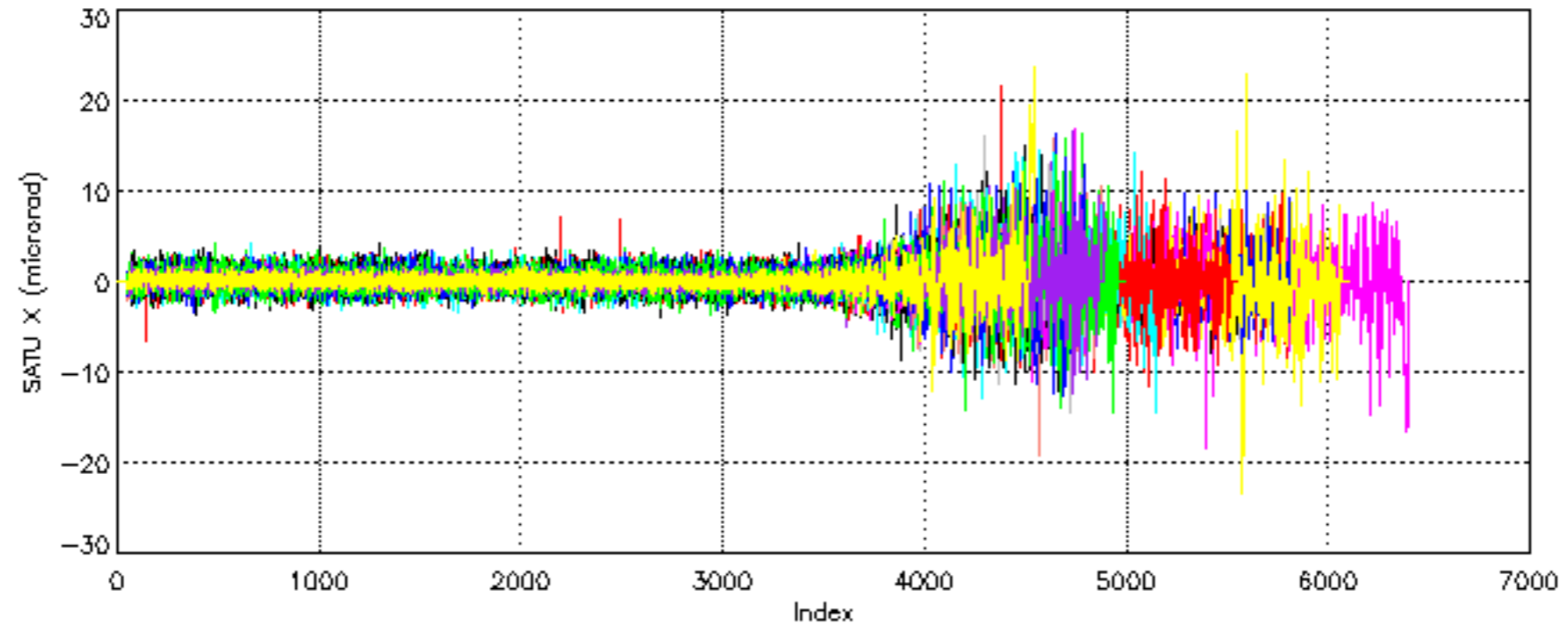
Tangent altitude at which the star is lost

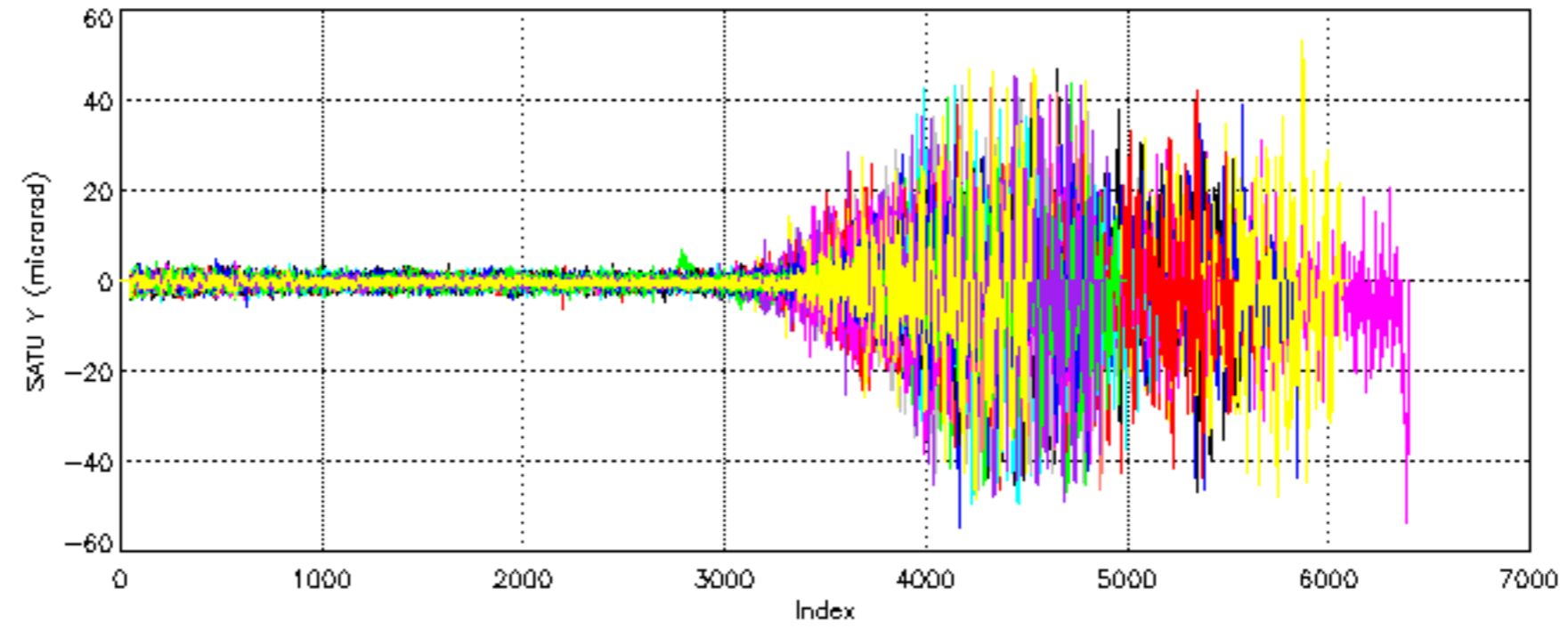


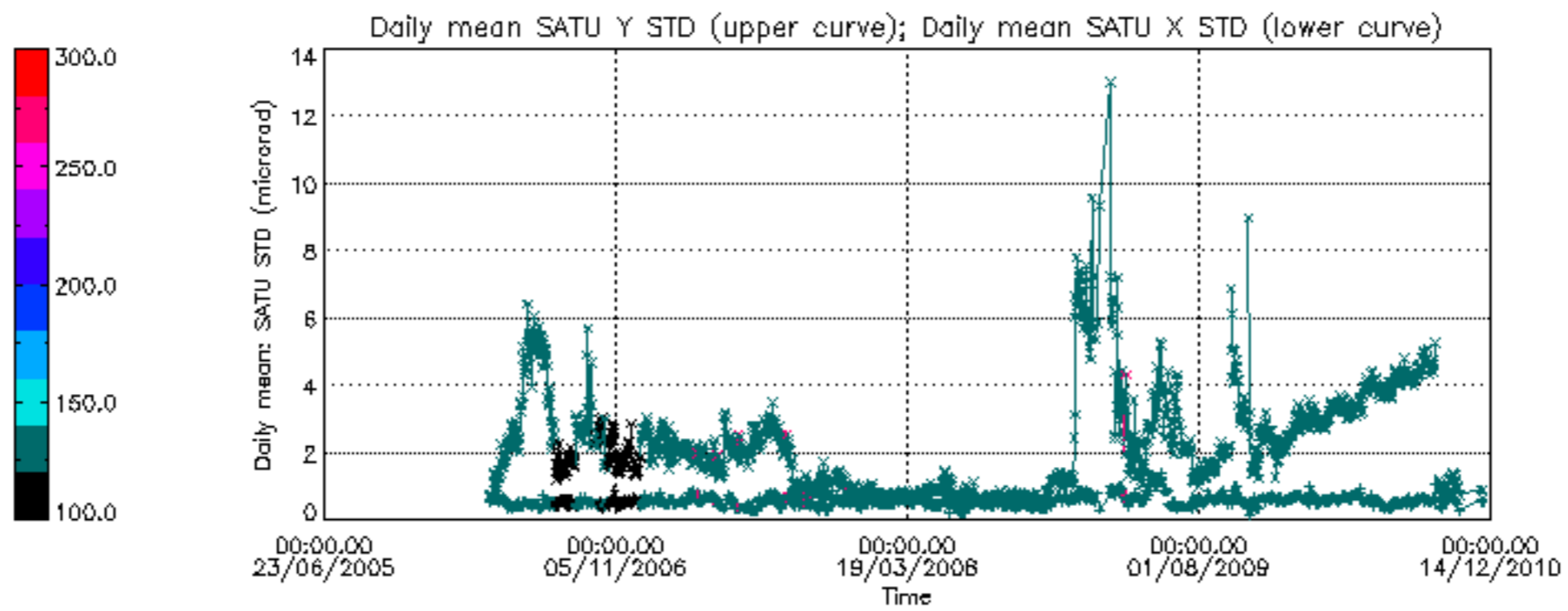


Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20101201\_002235\_000056993097\_00059\_45763\_1795.N1

1; -581.2; 01-DEC-2010 00:22:35; Dark ; 49.0; 100; 4Gam Crv ; 2.58; 13100;occ; 98; 0;45763  
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 3; 80.8; 01-DEC-2010 00:33:37; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;45764  
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 6; 797.9; 01-DEC-2010 00:45:35; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;45764  
 7; 907.6; 01-DEC-2010 00:47:24; Dark ; 59.5; 117; Pi Pup ; 2.71; 3800;occ; 119; 0;45764  
 8; 1181.6; 01-DEC-2010 00:51:58; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;45764  
 9; 1523.2; 01-DEC-2010 00:57:40; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;45764  
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 11; 2218.1; 01-DEC-2010 01:09:15; Bright; 55.0; 13; 87Alp Tau ; 0.87; 3800;occ; 110; 0;45764  
 12; 2314.7; 01-DEC-2010 01:10:51; Bright; 37.5; 146; 25Eta Tau ; 2.87; 15200;occ; 75; 0;45764  
 13; 2456.2; 01-DEC-2010 01:13:13; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;45764  
 14; 2601.4; 01-DEC-2010 01:15:38; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;45764  
 15; 2722.5; 01-DEC-2010 01:17:39; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45764  
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 23; 4896.6; 01-DEC-2010 01:53:53; Bright; 56.5; 62; 94Bet Leo ; 2.14; 9700;occ; 113; 0;45764  
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 6; 908.6; 01-DEC-2010 02:27:39; Dark ; 64.0; 117; Pi Pup ; 2.71; 3800;occ; 128; 0;45765  
 7; 1182.1; 01-DEC-2010 02:32:13; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;45765  
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 12; 597.5; 01-DEC-2010 04:02:42; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45766  
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 17; 1739.4; 01-DEC-2010 04:21:44; Dark ; 60.5; 7; 19Bet Ori ; 0.10; 14000;occ; 121; 0;45766  
 18; 2217.7; 01-DEC-2010 04:29:42; Bright; 58.5; 13; 87Alp Tau ; 0.87; 3800;occ; 117; 0;45766  
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3;-2019.9; 01-DEC-2010 04:59:19; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;45766
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 5; 2309.1; 04-DEC-2010 07:41:45; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;45811  
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 6; 2590.6; 04-DEC-2010 11:06:55; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;45813
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13; 4120.0; 05-DEC-2010 09:15:27; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;45826
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16; 4861.3; 05-DEC-2010 09:27:48; Bright; 44.5; 138; 47Eps Vir ; 2.83; 4700;occ; 89; 0;45826
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 23; 6843.8; 05-DEC-2010 10:00:50; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;45827  
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 25; 7220.7; 05-DEC-2010 10:07:07; Dark ; 44.5; 108; Alp Col ; 2.65; 15200;occ; 89; 0;45827  
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 7; 2445.0; 05-DEC-2010 10:27:46; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;45827  
 8; 2535.9; 05-DEC-2010 10:29:17; Bright; 44.5; 114; 3Iot Aur ; 2.69; 4600;occ; 89; 0;45827  
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 23; 6664.7; 05-DEC-2010 11:38:05; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;45828  
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 5; 2199.7; 05-DEC-2010 12:03:54; Dark ; 55.0; 13; 87Alp Tau ; 0.87; 3800;occ; 110; 0;45828  
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 13; 3987.6; 05-DEC-2010 12:33:42; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;45828  
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 16; 4666.7; 05-DEC-2010 12:45:01; Bright; 37.0; 111; 8Eta Boo ; 2.68; 6000;occ; 74; 0;45828  
 17; 4862.3; 05-DEC-2010 12:48:17; Bright; 62.0; 138; 47Eps Vir ; 2.83; 4700;occ; 124; 0;45828  
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23; 6666.6; 05-DEC-2010 14:58:35; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45830  
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 20; 5518.1; 07-DEC-2010 15:06:14; Dark ; 54.5; 100; 4Gam Crv ; 2.58; 13100;occ; 109; 0;45858  
 21; 5614.4; 07-DEC-2010 15:07:50; Dark ; 50.0; 171; 2Eps Crv ; 3.00; 4250;occ; 100; 0;45858  
 22; 5969.5; 07-DEC-2010 15:13:45; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;45858  
 23; 6172.2; 07-DEC-2010 15:17:08; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;45859  
 24; 6497.4; 07-DEC-2010 15:22:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45859  
 25; 6690.5; 07-DEC-2010 15:25:46; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45859  
 26; 6858.9; 07-DEC-2010 15:28:34; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;45859  
 27; 6995.8; 07-DEC-2010 15:30:51; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;45859  
 28; 7232.1; 07-DEC-2010 15:34:48; Dark ; 46.5; 108; Alp Col ; 2.65; 15200;occ; 93; 0;45859



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2;	1735.8;	07-DEC-2010	15:43:25;	Dark	;	53.5;	7;	19Bet	Ori	;	0.10;	14000;	occ;	107;	0;	45859
3;	1891.2;	07-DEC-2010	15:46:01;	Dark	;	55.5;	30;	46Eps	Ori	;	1.69;	30000;	occ;	111;	0;	45859
4;	2042.4;	07-DEC-2010	15:48:32;	Dark	;	55.5;	27;	24Gam	Ori	;	1.64;	26000;	occ;	111;	0;	45859
5;	2192.9;	07-DEC-2010	15:51:02;	Dark	;	58.0;	13;	87Alp	Tau	;	0.87;	3800;	occ;	116;	0;	45859
6;	2305.6;	07-DEC-2010	15:52:55;	Bright;		37.5;	146;	25Eta	Tau	;	2.87;	15200;	occ;	75;	0;	45859
7;	2441.0;	07-DEC-2010	15:55:11;	Bright;		38.0;	150;	44Zet	Per	;	2.89;	28000;	occ;	76;	0;	45859
8;	2521.4;	07-DEC-2010	15:56:31;	Bright;		43.5;	114;	3Iot	Aur	;	2.69;	4600;	occ;	87;	0;	45859
9;	2708.8;	07-DEC-2010	15:59:38;	Bright;		36.5;	175;	39Del	Per	;	3.01;	19400;	occ;	73;	0;	45859
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11;	3765.0;	07-DEC-2010	16:17:15;	Bright;		66.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	132;	0;	45859
12;	3857.0;	07-DEC-2010	16:18:46;	Bright;		49.5;	82;	48Bet	UMa	;	2.37;	10600;	occ;	99;	0;	45859
13;	3983.6;	07-DEC-2010	16:20:53;	Bright;		41.5;	32;	77Eps	UMa	;	1.76;	11000;	occ;	83;	0;	45859
14;	4120.4;	07-DEC-2010	16:23:10;	Bright;		39.5;	39;	85Eta	UMa	;	1.85;	24000;	occ;	79;	0;	45859
15;	4330.7;	07-DEC-2010	16:26:40;	Bright;		40.5;	152;	12Alp2	CVn	;	2.89;	11000;	occ;	81;	0;	45859
16;	4674.2;	07-DEC-2010	16:32:24;	Bright;		56.0;	111;	8Eta	Boo	;	2.68;	6000;	occ;	112;	0;	45859
17;	4876.5;	07-DEC-2010	16:35:46;	Bright;		43.0;	138;	47Eps	Vir	;	2.83;	4700;	occ;	86;	0;	45859
18;	5158.1;	07-DEC-2010	16:40:28;	Dark	;	53.0;	121;	29Gam	Vir	;	2.74;	7200;	occ;	106;	0;	45859
19;	5433.5;	07-DEC-2010	16:45:03;	Dark	;	43.0;	169;	46Gam	Hya	;	2.99;	4700;	occ;	86;	0;	45859
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21;	5615.4;	07-DEC-2010	16:48:05;	Dark	;	52.5;	171;	2Eps	Crv	;	3.00;	4250;	occ;	105;	0;	45859
22;	5970.1;	07-DEC-2010	16:54:00;	Dark	;	41.0;	99;	Del	Cen	;	2.58;	26000;	occ;	82;	0;	45859
23;	6173.1;	07-DEC-2010	16:57:23;	Dark	;	44.5;	113;	Mu	Vel	;	2.69;	5000;	occ;	89;	0;	45860
24;	6498.3;	07-DEC-2010	17:02:48;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	45860
25;	6691.5;	07-DEC-2010	17:06:01;	Dark	;	48.5;	34;	Gam2	Vel	;	1.79;	23000;	occ;	97;	0;	45860
26;	6859.4;	07-DEC-2010	17:08:49;	Dark	;	49.0;	2;	Alp	Car	;	-0.74;	7000;	occ;	98;	0;	45860
27;	6996.5;	07-DEC-2010	17:11:06;	Dark	;	56.0;	117;	Pi	Pup	;	2.71;	3800;	occ;	112;	0;	45860

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2;	1218.4;	07-DEC-2010	17:15:02;	Dark	;	45.0;	108;	Alp	Col	;	2.65;	15200;	occ;	90;	0;	45860
3;	1537.3;	07-DEC-2010	17:20:21;	Dark	;	50.5;	101;	11Alp	Lep	;	2.58;	7000;	occ;	101;	0;	45860
4;	1735.9;	07-DEC-2010	17:23:39;	Dark	;	55.0;	7;	19Bet	Ori	;	0.10;	14000;	occ;	110;	0;	45860
5;	1891.1;	07-DEC-2010	17:26:15;	Dark	;	55.5;	30;	46Eps	Ori	;	1.69;	30000;	occ;	111;	0;	45860
6;	2042.2;	07-DEC-2010	17:28:46;	Dark	;	55.0;	27;	24Gam	Ori	;	1.64;	26000;	occ;	110;	0;	45860
7;	2192.5;	07-DEC-2010	17:31:16;	Dark	;	58.0;	13;	87Alp	Tau	;	0.87;	3800;	occ;	116;	0;	45860
8;	2305.4;	07-DEC-2010	17:33:09;	Bright;		38.0;	146;	25Eta	Tau	;	2.87;	15200;	occ;	76;	0;	45860
9;	2440.9;	07-DEC-2010	17:35:24;	Bright;		37.5;	150;	44Zet	Per	;	2.89;	28000;	occ;	75;	0;	45860
10;	2520.9;	07-DEC-2010	17:36:44;	Bright;		43.0;	114;	3Iot	Aur	;	2.69;	4600;	occ;	86;	0;	45860
11;	2708.7;	07-DEC-2010	17:39:52;	Bright;		35.5;	175;	39Del	Per	;	3.01;	19400;	occ;	71;	0;	45860
12;	2857.9;	07-DEC-2010	17:42:21;	Bright;		47.5;	42;	34Bet	Aur	;	1.90;	10200;	occ;	95;	0;	45860
13;	3764.6;	07-DEC-2010	17:57:28;	Bright;		45.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	90;	0;	45860
14;	3856.5;	07-DEC-2010	17:59:00;	Bright;		48.0;	82;	48Bet	UMa	;	2.37;	10600;	occ;	96;	0;	45860
15;	3983.4;	07-DEC-2010	18:01:07;	Bright;		42.5;	32;	77Eps	UMa	;	1.76;	11000;	occ;	85;	0;	45860
16;	4120.4;	07-DEC-2010	18:03:24;	Bright;		40.0;	39;	85Eta	UMa	;	1.85;	24000;	occ;	80;	0;	45860
17;	4330.9;	07-DEC-2010	18:06:55;	Bright;		40.5;	152;	12Alp2	CVn	;	2.89;	11000;	occ;	81;	0;	45860
18;	4674.4;	07-DEC-2010	18:12:38;	Bright;		37.5;	111;	8Eta	Boo	;	2.68;	6000;	occ;	75;	0;	45860
19;	4876.9;	07-DEC-2010	18:16:01;	Bright;		45.5;	138;	47Eps	Vir	;	2.83;	4700;	occ;	91;	0;	45860
20;	5159.0;	07-DEC-2010	18:20:43;	Dark	;	51.5;	121;	29Gam	Vir	;	2.74;	7200;	occ;	103;	0;	45860
21;	5434.0;	07-DEC-2010	18:25:18;	Dark	;	43.5;	169;	46Gam	Hya	;	2.99;	4700;	occ;	87;	0;	45860
22;	5520.1;	07-DEC-2010	18:26:44;	Dark	;	49.0;	100;	4Gam	Crv	;	2.58;	13100;	occ;	98;	0;	45860
23;	5616.4;	07-DEC-2010	18:28:20;	Dark	;	53.5;	171;	2Eps	Crv	;	3.00;	4250;	occ;	107;	0;	45860
24;	5970.6;	07-DEC-2010	18:34:14;	Dark	;	40.5;	99;	Del	Cen	;	2.58;	26000;	occ;	81;	0;	45860
25;	6173.8;	07-DEC-2010	18:37:37;	Dark	;	44.5;	113;	Mu	Vel	;	2.69;	5000;	occ;	89;	0;	45861
26;	6499.0;	07-DEC-2010	18:43:03;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	45861
27;	6692.2;	07-DEC-2010	18:46:16;	Dark	;	48.5;	34;	Gam2	Vel	;	1.79;	23000;	occ;	97;	0;	45861
28;	6859.9;	07-DEC-2010	18:49:03;	Dark	;	49.0;	2;	Alp	Car	;	-0.74;	7000;	occ;	98;	0;	45861
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2;	1218.6;	07-DEC-2010	18:55:16;	Dark	;	43.5;	108;	Alp	Col	;	2.65;	15200;	occ;	87;	0;	45861
3;	1537.4;	07-DEC-2010	19:00:35;	Dark	;	50.5;	101;	11Alp	Lep	;	2.58;	7000;	occ;	101;	0;	45861
4;	1735.8;	07-DEC-2010	19:03:54;	Dark	;	54.0;	7;	19Bet	Ori	;	0.10;	14000;	occ;	108;	0;	45861
5;	1890.7;	07-DEC-2010	19:06:28;	Dark	;	52.0;	30;	46Eps	Ori	;	1.69;	30000;	occ;	104;	0;	45861
6;	2041.8;	07-DEC-2010	19:09:00;	Dark	;	53.0;	27;	24Gam	Ori	;	1.64;	26000;	occ;	106;	0;	45861
7;	2192.4;	07-DEC-2010	19:11:30;	Dark	;	58.0;	13;	87Alp	Tau	;	0.87;	3800;	occ;	116;	0;	45861
8;	2305.4;	07-DEC-2010	19:13:23;	Bright;		37.5;	146;	25Eta	Tau	;	2.87;	15200;	occ;	75;	0;	45861
9;	2440.9;	07-DEC-2010	19:15:39;	Bright;		38.0;	150;	44Zet	Per	;	2.89;	28000;	occ;	76;	0;	45861

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11; 2708.8; 07-DEC-2010 19:20:07; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;45861
12; 2857.2; 07-DEC-2010 19:22:35; Bright; 70.0; 42; 34Bet Aur ; 1.90; 10200;occ; 140; 0;45861
13; 3764.1; 07-DEC-2010 19:37:42; Bright; 47.5; 36; 50Alp UMa ; 1.80; 6300;occ; 95; 0;45861
14; 3856.2; 07-DEC-2010 19:39:14; Bright; 45.0; 82; 48Bet UMa ; 2.37; 10600;occ; 101; 0;45861
15; 3983.3; 07-DEC-2010 19:41:21; Bright; 42.5; 32; 77Eps UMa ; 1.76; 11000;occ; 85; 0;45861
16; 4120.3; 07-DEC-2010 19:43:38; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;45861
17; 4330.7; 07-DEC-2010 19:47:08; Bright; 42.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 84; 0;45861
18; 4674.5; 07-DEC-2010 19:52:52; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;45861
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22; 5521.0; 07-DEC-2010 20:06:59; Dark ; 50.0; 100; 4Gam Crv ; 2.58; 13100;occ; 100; 0;45861
23; 5617.4; 07-DEC-2010 20:08:35; Dark ; 55.0; 171; 2Eps Crv ; 3.00; 4250;occ; 110; 0;45861
24; 5971.2; 07-DEC-2010 20:14:29; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;45861
25; 6174.6; 07-DEC-2010 20:17:52; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;45862
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27; 6692.8; 07-DEC-2010 20:26:31; Dark ; 54.0; 34; Gam2Vel ; 1.79; 23000;occ; 108; 0;45862
28; 6860.2; 07-DEC-2010 20:29:18; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;45862
29; 6998.0; 07-DEC-2010 20:31:36; Dark ; 37.5; 117; Pi Pup ; 2.71; 3800;occ; 75; 0;45862
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 3;-2033.8; 09-DEC-2010 06:46:13; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;45882
 4;-1893.8; 09-DEC-2010 06:48:33; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;45882
 5;-1682.7; 09-DEC-2010 06:52:04; Bright; 43.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 87; 0;45882
 6;-1334.1; 09-DEC-2010 06:57:52; Bright; 36.5; 111; 8Eta Boo ; 2.68; 6000;occ; 73; 0;45882
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 9; -567.3; 09-DEC-2010 07:10:39; Dark ; 44.0; 169; 46Gam Hya ; 2.99; 4700;occ; 88; 0;45882
10; -471.1; 09-DEC-2010 07:12:15; Dark ; 50.5; 100; 4Gam Crv ; 2.58; 13100;occ; 101; 0;45882
11; -374.8; 09-DEC-2010 07:13:51; Dark ; 56.5; 171; 2Eps Crv ; 3.00; 4250;occ; 113; 0;45882
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14; 430.0; 09-DEC-2010 07:27:16; Dark ; 41.5; 91; Kap Vel ; 2.49; 26000;occ; 83; 0;45883
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10; -455.9; 10-DEC-2010 06:35:47; Dark ; 49.5; 100; 4Gam Crv ; 2.58; 13100;occ; 99; 0;45896
11; -359.7; 10-DEC-2010 06:37:23; Dark ; 58.0; 171; 2Eps Crv ; 3.00; 4250;occ; 116; 0;45896
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13; 190.4; 10-DEC-2010 06:46:33; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45897
14; 437.9; 10-DEC-2010 06:50:41; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;45897
15; 513.7; 10-DEC-2010 06:51:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45897
16; 706.7; 10-DEC-2010 06:55:09; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;45897
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 4; -73.4; 15-DEC-2010 00:18:03; Dark ; 47.0; 64; Gam Cen ; 2.20; 10600;occ; 94; 0;45964  
 5; 23.0; 15-DEC-2010 00:19:39; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;45965  
 6; 249.8; 15-DEC-2010 00:23:26; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45965  
 7; 480.5; 15-DEC-2010 00:27:17; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;45965  
 8; 566.4; 15-DEC-2010 00:28:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45965  
 9; 757.7; 15-DEC-2010 00:31:54; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;45965  
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 11; 1049.7; 15-DEC-2010 00:36:46; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;45965  
 12; 1246.2; 15-DEC-2010 00:40:02; Dark ; 58.5; 23; 21Eps CMA ; 1.50; 26000;occ; 117; 0;45965  
 13; 1523.2; 15-DEC-2010 00:44:39; Dark ; 54.0; 47; 2Bet CMA ; 1.98; 28000;occ; 108; 0;45965  
 14; 1737.2; 15-DEC-2010 00:48:13; Dark ; 51.5; 7; 19Bet Ori ; 0.10; 14000;occ; 103; 0;45965  
 15; 1873.6; 15-DEC-2010 00:50:30; Dark ; 48.5; 30; 46Eps Ori ; 1.69; 30000;occ; 97; 0;45965  
 16; 2065.4; 15-DEC-2010 00:53:42; Dark ; 62.5; 14; 58Alp Ori ; 0.87; 3000;occ; 125; 0;45965  
 17; 2177.9; 15-DEC-2010 00:55:34; Dark ; 47.5; 13; 87Alp Tau ; 0.87; 3800;occ; 95; 0;45965  
 18; 2315.9; 15-DEC-2010 00:57:52; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;45965  
 19; 2438.8; 15-DEC-2010 00:59:55; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;45965  
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 21; 2786.4; 15-DEC-2010 01:05:43; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;45965  
 22; 3686.1; 15-DEC-2010 01:20:42; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;45965  
 23; 3964.9; 15-DEC-2010 01:25:21; Bright; 62.0; 32; 77Eps UMa ; 1.76; 11000;occ; 124; 0;45965  
 24; 4117.3; 15-DEC-2010 01:27:54; Bright; 58.0; 39; 85Eta UMa ; 1.85; 24000;occ; 116; 0;45965  
 25; 4315.6; 15-DEC-2010 01:31:12; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;45965  
 26; 4506.5; 15-DEC-2010 01:34:23; Bright; 54.0; 83; ; 2.38; 11000;occ; 108; 0;45965  
 27; 4703.0; 15-DEC-2010 01:37:39; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;45965  
 28; 4934.7; 15-DEC-2010 01:41:31; Bright; 48.5; 138; 47Eps Vir ; 2.83; 4700;occ; 97; 0;45965

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 5; 23.9; 15-DEC-2010 01:59:54; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;45966  
 6; 250.7; 15-DEC-2010 02:03:41; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45966  
 7; 481.2; 15-DEC-2010 02:07:31; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;45966  
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 9; 758.4; 15-DEC-2010 02:12:09; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;45966  
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 11; 1050.4; 15-DEC-2010 02:17:01; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;45966  
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 14; 1737.3; 15-DEC-2010 02:28:28; Dark ; 52.5; 7; 19Bet Ori ; 0.10; 14000;occ; 105; 0;45966  
 15; 1873.6; 15-DEC-2010 02:30:44; Dark ; 50.5; 30; 46Eps Ori ; 1.69; 30000;occ; 101; 0;45966  
 16; 2065.0; 15-DEC-2010 02:33:55; Dark ; 67.0; 14; 58Alp Ori ; 0.87; 3000;occ; 134; 0;45966  
 17; 2177.9; 15-DEC-2010 02:35:48; Dark ; 50.5; 13; 87Alp Tau ; 0.87; 3800;occ; 101; 0;45966  
 18; 2315.7; 15-DEC-2010 02:38:06; Bright; 46.0; 176; 23Zet Tau ; 3.02; 22000;occ; 92; 0;45966  
 19; 2438.3; 15-DEC-2010 02:40:09; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;45966  
 20; 2656.6; 15-DEC-2010 02:43:47; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;45966  
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5;-1507.2; 15-DEC-2010 03:14:37; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;45966
6;-1310.7; 15-DEC-2010 03:17:54; Bright; 50.5; 111; 8Eta Boo ; 2.68; 6000;occ; 101; 0;45966
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15; 567.9; 15-DEC-2010 03:49:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45967
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17; 891.1; 15-DEC-2010 03:54:35; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;45967
18; 1051.0; 15-DEC-2010 03:57:15; Dark ; 57.5; 117; Pi Pup ; 2.71; 3800;occ; 115; 0;45967
19; 1247.3; 15-DEC-2010 04:00:32; Dark ; 54.5; 23; 21Eps CMa ; 1.50; 26000;occ; 109; 0;45967
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21; 1737.4; 15-DEC-2010 04:08:42; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;45967
22; 1873.7; 15-DEC-2010 04:10:58; Dark ; 50.5; 30; 46Eps Ori ; 1.69; 30000;occ; 101; 0;45967
23; 2064.9; 15-DEC-2010 04:14:09; Dark ; 64.0; 14; 58Alp Ori ; 0.87; 3000;occ; 128; 0;45967
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25; 2315.3; 15-DEC-2010 04:18:20; Bright; 46.0; 176; 23Zet Tau ; 3.02; 22000;occ; 92; 0;45967
26; 2438.0; 15-DEC-2010 04:20:22; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;45967
27; 2656.2; 15-DEC-2010 04:24:01; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;45967
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3;-1896.8; 15-DEC-2010 04:48:22; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;45967
4;-1698.3; 15-DEC-2010 04:51:40; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;45967
5;-1507.0; 15-DEC-2010 04:54:51; Bright; 54.0; 83; ; 2.38; 11000;occ; 108; 0;45967
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16; 568.6; 15-DEC-2010 05:29:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45968
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22; 1737.5; 15-DEC-2010 05:48:56; Dark ; 56.0; 7; 19Bet Ori ; 0.10; 14000;occ; 112; 0;45968
23; 1873.6; 15-DEC-2010 05:51:12; Dark ; 50.0; 30; 46Eps Ori ; 1.69; 30000;occ; 100; 0;45968
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8; 2177.2; 15-DEC-2010 20:58:22; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;45977
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26; 4116.5; 15-DEC-2010 23:10:55; Bright; 58.0; 39; 85Eta UMa ; 1.85; 24000;occ; 116; 0;45978
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53; 8661.6; 16-DEC-2010 03:47:08; Bright; 44.5; 107; 37The Aur ; 2.65; 11000;occ; 89; 0;45981
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24; 3685.5; 16-DEC-2010 22:27:01; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;45992
25; 3958.8; 16-DEC-2010 22:31:34; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;45992
26; 4115.6; 16-DEC-2010 22:34:11; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;45992
27; 4317.9; 16-DEC-2010 22:37:33; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;45992
28; 4511.2; 16-DEC-2010 22:40:46; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;45992
29; 4711.4; 16-DEC-2010 22:44:06; Bright; 61.0; 111; 8Eta Boo ; 2.68; 6000;occ; 122; 0;45992
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5; 42.5; 16-DEC-2010 23:06:31; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;45993
6; 274.6; 16-DEC-2010 23:10:24; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45993
7; 498.0; 16-DEC-2010 23:14:07; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;45993
8; 587.3; 16-DEC-2010 23:15:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45993
9; 777.5; 16-DEC-2010 23:18:46; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;45993
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11; 1065.4; 16-DEC-2010 23:23:34; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;45993
12; 1258.0; 16-DEC-2010 23:26:47; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;45993
13; 1363.9; 16-DEC-2010 23:28:33; Dark ; 34.0; 179; 240mi2CMA ; 3.03; 24000;occ; 68; 0;45993
14; 1527.2; 16-DEC-2010 23:31:16; Dark ; 50.5; 47; 2Bet CMA ; 1.98; 28000;occ; 101; 0;45993
15; 1738.4; 16-DEC-2010 23:34:47; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;45993
16; 1871.0; 16-DEC-2010 23:37:00; Dark ; 48.0; 30; 46Eps Ori ; 1.69; 30000;occ; 96; 0;45993
17; 2056.0; 16-DEC-2010 23:40:05; Dark ; 59.0; 14; 58Alp Ori ; 0.87; 3000;occ; 118; 0;45993
18; 2176.2; 16-DEC-2010 23:42:05; Dark ; 46.5; 13; 87Alp Tau ; 0.87; 3800;occ; 93; 0;45993

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 21; 2639.9; 16-DEC-2010 23:49:49; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;45993  
 22; 2770.5; 16-DEC-2010 23:51:59; Bright; 43.5; 42; 34Bet Aur ; 1.90; 10200;occ; 87; 0;45993  
 23; 3685.5; 17-DEC-2010 00:07:14; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;45993  
 24; 3958.6; 17-DEC-2010 00:11:48; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;45993  
 25; 4115.6; 17-DEC-2010 00:14:25; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;45993  
 26; 4318.0; 17-DEC-2010 00:17:47; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;45993  
 27; 4511.4; 17-DEC-2010 00:21:00; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;45993  
 28; 4711.7; 17-DEC-2010 00:24:21; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;45993  
 29; 5311.9; 17-DEC-2010 00:34:21; Dark ; 56.5; 15; 67Alp Vir ; 0.98; 28000;occ; 113; 0;45993

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 6;-1067.7; 16-DEC-2010 07:45:55; Bright; 59.0; 138; 47Eps Vir ; 2.83; 4700;occ; 118; 0;45983  
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 9; -349.7; 16-DEC-2010 07:57:53; Dark ; 53.5; 106; 9Bet Crv ; 2.65; 5600;occ; 107; 0;45983  
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 13; 266.9; 16-DEC-2010 08:08:10; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45984  
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 21; 1526.2; 16-DEC-2010 08:29:09; Dark ; 53.5; 47; 2Bet CMa ; 1.98; 28000;occ; 107; 0;45984

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 5; 2308.7; 16-DEC-2010 08:42:11; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;45984  
 6; 2431.4; 16-DEC-2010 08:44:14; Bright; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;45984  
 7; 2645.6; 16-DEC-2010 08:47:48; Bright; 44.5; 107; 37The Aur ; 2.65; 11000;occ; 89; 0;45984  
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 10; 3960.7; 16-DEC-2010 09:09:44; Bright; 44.0; 32; 77Eps UMa ; 1.76; 11000;occ; 88; 0;45984  
 11; 4116.4; 16-DEC-2010 09:12:19; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;45984  
 12; 4317.2; 16-DEC-2010 09:15:40; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;45984  
 13; 4510.0; 16-DEC-2010 09:18:53; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;45984  
 14; 4709.0; 16-DEC-2010 09:22:12; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;45984  
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 17; 5514.8; 16-DEC-2010 09:35:38; Dark ; 49.0; 169; 46Gam Hya ; 2.99; 4700;occ; 98; 0;45984  
 18; 5665.3; 16-DEC-2010 09:38:08; Dark ; 54.0; 106; 9Bet Crv ; 2.65; 5600;occ; 108; 0;45984  
 19; 5761.4; 16-DEC-2010 09:39:44; Dark ; 57.5; 171; 2Eps Crv ; 3.00; 4250;occ; 115; 0;45984  
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 22; 6281.6; 16-DEC-2010 09:48:24; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45985  
 23; 6507.0; 16-DEC-2010 09:52:10; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;45985  
 24; 6595.3; 16-DEC-2010 09:53:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45985  
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 27; 7075.1; 16-DEC-2010 10:01:38; Dark ; 50.0; 117; Pi Pup ; 2.71; 3800;occ; 100; 0;45985  
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 30; 7540.3; 16-DEC-2010 10:09:23; Dark ; 51.0; 47; 2Bet CMa ; 1.98; 28000;occ; 102; 0;45985

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6; 2308.0; 16-DEC-2010 10:22:25; Bright; 42.5; 176; 23Zet Tau ; 3.02; 22000;occ; 85; 0;45985  
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9; 2775.3; 16-DEC-2010 10:30:12; Bright; 42.5; 42; 34Bet Aur ; 1.90; 10200;occ; 85; 0;45985  
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13; 4317.3; 16-DEC-2010 10:55:54; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;45985  
14; 4510.2; 16-DEC-2010 10:59:07; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;45985  
15; 4709.3; 16-DEC-2010 11:02:26; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;45985  
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23; 6282.4; 16-DEC-2010 11:28:39; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45986  
24; 6507.7; 16-DEC-2010 11:32:24; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;45986  
25; 6596.0; 16-DEC-2010 11:33:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45986  
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27; 6913.6; 16-DEC-2010 11:39:10; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0;45986  
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31; 7540.4; 16-DEC-2010 11:49:37; Dark ; 16.0; 47; 2Bet CMA ; 1.98; 28000;occ; 32; 0;45986

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21; 5954.4; 16-DEC-2010 13:03:25; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;45986  
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27; 6914.4; 16-DEC-2010 13:19:25; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0;45987  
28; 7076.2; 16-DEC-2010 13:22:07; Dark ; 58.5; 117; Pi Pup ; 2.71; 3800;occ; 117; 0;45987  
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31; 7540.6; 16-DEC-2010 13:29:51; Dark ; 31.0; 47; 2Bet CMA ; 1.98; 28000;occ; 62; 0;45987

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7; 2430.3; 16-DEC-2010 13:44:55; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;45987

8; 2643.7; 16-DEC-2010 13:48:28; Bright; 45.0; 107; 37The Aur ; 2.65; 11000;occ; 90; 0;45987  
9; 2773.9; 16-DEC-2010 13:50:39; Bright; 44.0; 42; 34Bet Aur ; 1.90; 10200;occ; 88; 0;45987  
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12; 4116.3; 16-DEC-2010 14:13:01; Bright; 40.5; 39; 85Eta UMa ; 1.85; 24000;occ; 81; 0;45987  
13; 4317.7; 16-DEC-2010 14:16:22; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;45987  
14; 4510.6; 16-DEC-2010 14:19:35; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;45987  
15; 4709.9; 16-DEC-2010 14:22:55; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;45987  
16; 4949.2; 16-DEC-2010 14:26:54; Bright; 42.0; 138; 47Eps Vir ; 2.83; 4700;occ; 84; 0;45987  
17; 5307.5; 16-DEC-2010 14:32:52; Dark ; 55.5; 15; 67Alp Vir ; 0.98; 28000;occ; 111; 0;45987  
18; 5517.2; 16-DEC-2010 14:36:22; Dark ; 50.0; 169; 46Gam Hya ; 2.99; 4700;occ; 100; 0;45987  
19; 5668.5; 16-DEC-2010 14:38:53; Dark ; 54.0; 106; 9Bet Crv ; 2.65; 5600;occ; 108; 0;45987  
20; 5765.4; 16-DEC-2010 14:40:30; Dark ; 52.0; 171; 2Eps Crv ; 3.00; 4250;occ; 104; 0;45987  
21; 5955.2; 16-DEC-2010 14:43:40; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;45987  
22; 6053.1; 16-DEC-2010 14:45:18; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;45988  
23; 6284.3; 16-DEC-2010 14:49:09; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;45988  
24; 6509.0; 16-DEC-2010 14:52:54; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;45988  
25; 6597.6; 16-DEC-2010 14:54:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45988  
26; 6788.2; 16-DEC-2010 14:57:33; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;45988  
27; 6915.4; 16-DEC-2010 14:59:40; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;45988  
28; 7077.0; 16-DEC-2010 15:02:22; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;45988  
29; 7270.2; 16-DEC-2010 15:05:35; Dark ; 51.5; 23; 21Eps CMa ; 1.50; 26000;occ; 103; 0;45988  
30; 7376.7; 16-DEC-2010 15:07:21; Dark ; 24.5; 179; 240mi2CMa ; 3.03; 24000;occ; 49; 0;45988

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4; 2057.8; 16-DEC-2010 15:18:57; Dark ; 59.0; 14; 58Alp Ori ; 0.87; 3000;occ; 118; 0;45988  
5; 2176.7; 16-DEC-2010 15:20:55; Dark ; 45.5; 13; 87Alp Tau ; 0.87; 3800;occ; 91; 0;45988  
6; 2307.2; 16-DEC-2010 15:23:06; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;45988  
7; 2430.1; 16-DEC-2010 15:25:09; Bright; 40.5; 28; 12Bet Tau ; 1.65; 15200;occ; 81; 0;45988  
8; 2643.2; 16-DEC-2010 15:28:42; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;45988  
9; 2773.4; 16-DEC-2010 15:30:52; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;45988  
10; 3685.8; 16-DEC-2010 15:46:05; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;45988  
11; 3960.0; 16-DEC-2010 15:50:39; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;45988  
12; 4116.2; 16-DEC-2010 15:53:15; Bright; 41.5; 39; 85Eta UMa ; 1.85; 24000;occ; 83; 0;45988  
13; 4317.9; 16-DEC-2010 15:56:37; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;45988  
14; 4510.7; 16-DEC-2010 15:59:50; Bright; 35.0; 83; ; 2.38; 11000;occ; 70; 0;45988  
15; 4710.3; 16-DEC-2010 16:03:09; Bright; 61.0; 111; 8Eta Boo ; 2.68; 6000;occ; 122; 0;45988  
16; 4950.1; 16-DEC-2010 16:07:09; Bright; 33.0; 138; 47Eps Vir ; 2.83; 4700;occ; 66; 0;45988  
17; 5308.3; 16-DEC-2010 16:13:07; Dark ; 55.0; 15; 67Alp Vir ; 0.98; 28000;occ; 110; 0;45988  
18; 5518.0; 16-DEC-2010 16:16:37; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;45988  
19; 5669.8; 16-DEC-2010 16:19:09; Dark ; 53.5; 106; 9Bet Crv ; 2.65; 5600;occ; 107; 0;45988  
20; 5766.9; 16-DEC-2010 16:20:46; Dark ; 46.0; 171; 2Eps Crv ; 3.00; 4250;occ; 92; 0;45988  
21; 5955.9; 16-DEC-2010 16:23:55; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;45988  
22; 6053.9; 16-DEC-2010 16:25:33; Dark ; 42.5; 99; Del Cen ; 2.58; 26000;occ; 85; 0;45989  
23; 6285.4; 16-DEC-2010 16:29:24; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;45989  
24; 6509.7; 16-DEC-2010 16:33:08; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;45989  
25; 6598.5; 16-DEC-2010 16:34:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45989  
26; 6789.0; 16-DEC-2010 16:37:48; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;45989  
27; 6916.1; 16-DEC-2010 16:39:55; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;45989  
28; 7077.6; 16-DEC-2010 16:42:36; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;45989  
29; 7270.7; 16-DEC-2010 16:45:49; Dark ; 6.5; 23; 21Eps CMa ; 1.50; 26000;occ; 13; 0;45989

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2; 1362.9; 16-DEC-2010 16:47:36; Dark ; 25.0; 179; 240mi2CMa ; 3.03; 24000;occ; 50; 0;45989  
3; 1526.8; 16-DEC-2010 16:50:20; Dark ; 52.5; 47; 2Bet CMa ; 1.98; 28000;occ; 105; 0;45989  
4; 1738.4; 16-DEC-2010 16:53:51; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;45989  
5; 1871.4; 16-DEC-2010 16:56:04; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;45989  
6; 2057.5; 16-DEC-2010 16:59:10; Dark ; 67.0; 14; 58Alp Ori ; 0.87; 3000;occ; 134; 0;45989  
7; 2176.5; 16-DEC-2010 17:01:09; Dark ; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;45989  
8; 2306.5; 16-DEC-2010 17:03:19; Bright; 47.0; 176; 23Zet Tau ; 3.02; 22000;occ; 94; 0;45989  
9; 2429.4; 16-DEC-2010 17:05:22; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;45989  
10; 2642.4; 16-DEC-2010 17:08:55; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;45989  
11; 2772.8; 16-DEC-2010 17:11:06; Bright; 44.0; 42; 34Bet Aur ; 1.90; 10200;occ; 88; 0;45989  
12; 3685.7; 16-DEC-2010 17:26:19; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;45989  
13; 3959.8; 16-DEC-2010 17:30:53; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;45989  
14; 4116.0; 16-DEC-2010 17:33:29; Bright; 42.0; 39; 85Eta UMa ; 1.85; 24000;occ; 84; 0;45989



15; 4317.9; 16-DEC-2010 17:36:51; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;45989  
 16; 4510.9; 16-DEC-2010 17:40:04; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;45989  
 17; 4710.6; 16-DEC-2010 17:43:24; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;45989  
 18; 4950.7; 16-DEC-2010 17:47:24; Bright; 33.0; 138; 47Eps Vir ; 2.83; 4700;occ; 66; 0;45989  
 19; 5309.0; 16-DEC-2010 17:53:22; Dark ; 51.5; 15; 67Alp Vir ; 0.98; 28000;occ; 103; 0;45989  
 20; 5518.7; 16-DEC-2010 17:56:52; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;45989  
 21; 5670.8; 16-DEC-2010 17:59:24; Dark ; 56.5; 106; 9Bet Crv ; 2.65; 5600;occ; 113; 0;45989  
 22; 5768.1; 16-DEC-2010 18:01:01; Dark ; 46.0; 171; 2Eps Crv ; 3.00; 4250;occ; 92; 0;45989  
 23; 5956.4; 16-DEC-2010 18:04:09; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;45989  
 24; 6054.5; 16-DEC-2010 18:05:47; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;45990  
 25; 6286.2; 16-DEC-2010 18:09:39; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;45990  
 26; 6510.2; 16-DEC-2010 18:13:23; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;45990  
 27; 6599.2; 16-DEC-2010 18:14:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45990  
 28; 6789.6; 16-DEC-2010 18:18:02; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;45990  
 29; 6916.7; 16-DEC-2010 18:20:10; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;45990  
 30; 7078.0; 16-DEC-2010 18:22:51; Dark ; 30.5; 117; Pi Pup ; 2.71; 3800;occ; 61; 0;45990

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1; -698.6; 17-DEC-2010 00:34:24; Dark ; 57.0; 15; 67Alp Vir ; 0.98; 28000;occ; 114; 7;45993  
 2; -492.4; 17-DEC-2010 00:37:50; Dark ; 47.0; 169; 46Gam Hya ; 2.99; 4700;occ; 94; 0;45993  
 3; -240.6; 17-DEC-2010 00:42:02; Dark ; 35.0; 171; 2Eps Crv ; 3.00; 4250;occ; 70; 0;45993  
 4; -55.2; 17-DEC-2010 00:45:08; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;45993  
 5; 43.0; 17-DEC-2010 00:46:46; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;45994  
 6; 275.5; 17-DEC-2010 00:50:38; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;45994  
 7; 498.6; 17-DEC-2010 00:54:22; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;45994  
 8; 588.1; 17-DEC-2010 00:55:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45994  
 9; 778.2; 17-DEC-2010 00:59:01; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;45994  
 10; 905.4; 17-DEC-2010 01:01:08; Dark ; 52.5; 70; Zet Pup ; 2.25; 39000;occ; 105; 0;45994  
 11; 1065.9; 17-DEC-2010 01:03:49; Dark ; 54.5; 117; Pi Pup ; 2.71; 3800;occ; 109; 0;45994  
 12; 1258.4; 17-DEC-2010 01:07:01; Dark ; 52.5; 23; 21Eps CMa ; 1.50; 26000;occ; 105; 0;45994  
 13; 1364.4; 17-DEC-2010 01:08:47; Dark ; 39.0; 179; 240mi2CMa ; 3.03; 24000;occ; 78; 0;45994  
 14; 1527.5; 17-DEC-2010 01:11:30; Dark ; 51.0; 47; 2Bet CMa ; 1.98; 28000;occ; 102; 0;45994  
 15; 1738.3; 17-DEC-2010 01:15:01; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;45994  
 16; 1870.9; 17-DEC-2010 01:17:14; Dark ; 47.5; 30; 46Eps Ori ; 1.69; 30000;occ; 95; 0;45994  
 17; 2055.8; 17-DEC-2010 01:20:19; Dark ; 58.5; 14; 58Alp Ori ; 0.87; 3000;occ; 117; 0;45994  
 18; 2176.1; 17-DEC-2010 01:22:19; Dark ; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;45994  
 19; 2304.3; 17-DEC-2010 01:24:27; Bright; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;45994  
 20; 2427.4; 17-DEC-2010 01:26:30; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;45994  
 21; 2639.5; 17-DEC-2010 01:30:02; Bright; 46.0; 107; 37The Aur ; 2.65; 11000;occ; 92; 0;45994  
 22; 2770.0; 17-DEC-2010 01:32:13; Bright; 45.0; 42; 34Bet Aur ; 1.90; 10200;occ; 90; 0;45994  
 23; 3685.4; 17-DEC-2010 01:47:28; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;45994  
 24; 3958.4; 17-DEC-2010 01:52:01; Bright; 43.5; 32; 77Eps UMa ; 1.76; 11000;occ; 87; 0;45994  
 25; 4115.5; 17-DEC-2010 01:54:38; Bright; 43.0; 39; 85Eta UMa ; 1.85; 24000;occ; 86; 0;45994  
 26; 4318.1; 17-DEC-2010 01:58:01; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;45994  
 27; 4511.5; 17-DEC-2010 02:01:14; Bright; 43.0; 83; ; 2.38; 11000;occ; 86; 0;45994  
 28; 4712.1; 17-DEC-2010 02:04:35; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;45994

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 2; -337.7; 17-DEC-2010 02:20:39; Dark ; 57.5; 106; 9Bet Crv ; 2.65; 5600;occ; 115; 0;45994  
 3; -239.1; 17-DEC-2010 02:22:18; Dark ; 29.0; 171; 2Eps Crv ; 3.00; 4250;occ; 58; 0;45994  
 4; 43.9; 17-DEC-2010 02:27:01; Dark ; 46.5; 99; Del Cen ; 2.58; 26000;occ; 93; 0;45995  
 5; 276.5; 17-DEC-2010 02:30:53; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;45995  
 6; 499.3; 17-DEC-2010 02:34:36; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;45995  
 7; 588.8; 17-DEC-2010 02:36:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45995  
 8; 778.9; 17-DEC-2010 02:39:16; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;45995  
 9; 906.3; 17-DEC-2010 02:41:23; Dark ; 52.5; 70; Zet Pup ; 2.25; 39000;occ; 105; 0;45995  
 10; 1066.6; 17-DEC-2010 02:44:03; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;45995  
 11; 1259.0; 17-DEC-2010 02:47:16; Dark ; 53.5; 23; 21Eps CMa ; 1.50; 26000;occ; 107; 0;45995  
 12; 1364.8; 17-DEC-2010 02:49:02; Dark ; 39.0; 179; 240mi2CMa ; 3.03; 24000;occ; 78; 0;45995  
 13; 1527.6; 17-DEC-2010 02:51:44; Dark ; 52.5; 47; 2Bet CMa ; 1.98; 28000;occ; 105; 0;45995  
 14; 1738.5; 17-DEC-2010 02:55:15; Dark ; 51.5; 7; 19Bet Ori ; 0.10; 14000;occ; 103; 0;45995  
 15; 1870.9; 17-DEC-2010 02:57:28; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;45995  
 16; 2055.5; 17-DEC-2010 03:00:32; Dark ; 57.0; 14; 58Alp Ori ; 0.87; 3000;occ; 114; 0;45995  
 17; 2176.2; 17-DEC-2010 03:02:33; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;45995  
 18; 2304.1; 17-DEC-2010 03:04:41; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;45995  
 19; 2427.2; 17-DEC-2010 03:06:44; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;45995  
 20; 2638.9; 17-DEC-2010 03:10:16; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;45995  
 21; 2769.5; 17-DEC-2010 03:12:26; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;45995

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3;-1898.5; 17-DEC-2010 03:34:52; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;45995
4;-1695.9; 17-DEC-2010 03:38:15; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;45995
5;-1502.3; 17-DEC-2010 03:41:29; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;45995
6;-1301.7; 17-DEC-2010 03:44:49; Bright; 41.0; 111; 8Eta Boo ; 2.68; 6000;occ; 82; 0;45995
7; -700.5; 17-DEC-2010 03:54:50; Dark ; 51.0; 15; 67Alp Vir ; 0.98; 28000;occ; 102; 0;45995
8; -414.7; 17-DEC-2010 03:59:36; Dark ; 54.5; 163; 7Del Crv ; 2.94; 11000;occ; 109; 0;45995
9; -336.8; 17-DEC-2010 04:00:54; Dark ; 60.0; 106; 9Bet Crv ; 2.65; 5600;occ; 120; 0;45995
10; -237.8; 17-DEC-2010 04:02:33; Dark ; 29.0; 171; 2Eps Crv ; 3.00; 4250;occ; 58; 0;45995
11; -54.1; 17-DEC-2010 04:05:37; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;45995
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13; 277.4; 17-DEC-2010 04:11:08; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;45996
14; 499.8; 17-DEC-2010 04:14:51; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;45996
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16; 779.7; 17-DEC-2010 04:19:31; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;45996
17; 907.1; 17-DEC-2010 04:21:38; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;45996
18; 1067.3; 17-DEC-2010 04:24:18; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;45996
19; 1259.5; 17-DEC-2010 04:27:30; Dark ; 53.5; 23; 21Eps CMa ; 1.50; 26000;occ; 107; 0;45996
20; 1365.1; 17-DEC-2010 04:29:16; Dark ; 44.0; 179; 240mi2CMa ; 3.03; 24000;occ; 88; 0;45996
21; 1527.9; 17-DEC-2010 04:31:59; Dark ; 49.5; 47; 2Bet CMa ; 1.98; 28000;occ; 99; 0;45996
22; 1738.6; 17-DEC-2010 04:35:30; Dark ; 53.5; 7; 19Bet Ori ; 0.10; 14000;occ; 107; 0;45996
23; 1870.9; 17-DEC-2010 04:37:42; Dark ; 47.5; 30; 46Eps Ori ; 1.69; 30000;occ; 95; 0;45996
24; 2055.4; 17-DEC-2010 04:40:46; Dark ; 60.0; 14; 58Alp Ori ; 0.87; 3000;occ; 120; 0;45996
25; 2176.2; 17-DEC-2010 04:42:47; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;45996
26; 2303.7; 17-DEC-2010 04:44:55; Bright; 43.5; 176; 23Zet Tau ; 3.02; 22000;occ; 87; 0;45996
27; 2426.9; 17-DEC-2010 04:46:58; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;45996
28; 2638.4; 17-DEC-2010 04:50:29; Bright; 45.0; 107; 37The Aur ; 2.65; 11000;occ; 90; 0;45996
29; 2769.0; 17-DEC-2010 04:52:40; Bright; 44.0; 42; 34Bet Aur ; 1.90; 10200;occ; 88; 0;45996
30; 3685.5; 17-DEC-2010 05:07:56; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;45996

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27; 7275.8; 17-DEC-2010 14:28:57; Dark ; 52.5; 23; 21Eps CMa ; 1.50; 26000;occ; 105; 0;46002  
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22; 6518.4; 17-DEC-2010 15:56:34; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;46003  
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8; 2424.4; 17-DEC-2010 16:28:34; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;46003  
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16; 4319.2; 17-DEC-2010 18:40:22; Bright; 56.0; 180; 27Gam Boo ; 3.04; 8000;occ; 112; 0;46004
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 7; 1867.1; 21-DEC-2010 20:33:18; Dark ; 48.0; 30; 46Eps Ori ; 1.69; 30000;occ; 96; 0;46063  
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5; -1491.9; 21-DEC-2010 06:15:27; Bright; 38.5; 83; ; 2.38; 11000;occ; 77; 0;46054
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26; 7397.8; 21-DEC-2010 10:23:51; Dark ; 50.0; 179; 24Omi2CMa ; 3.03; 24000;occ; 100; 0;46057
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9; 3942.4; 21-DEC-2010 11:06:29; Bright; 43.0; 32; 77Eps UMa ; 1.76; 11000;occ; 86; 0;46057
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 12; 4523.0; 21-DEC-2010 12:56:24; Bright; 56.0; 83; ; 2.38; 11000;occ; 112; 0;46058  
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13; 3937.3; 22-DEC-2010 17:10:37; Bright; 45.5; 32; 77Eps UMa ; 1.76; 11000;occ; 91; 0;46075
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14; 658.5; 23-DEC-2010 05:37:50; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;46083
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6; 1746.7; 24-DEC-2010 18:41:07; Dark ; 50.5; 7; 19Bet Ori ; 0.10; 14000;occ; 101; 0;46105
7; 1866.6; 24-DEC-2010 18:43:07; Dark ; 46.0; 30; 46Eps Ori ; 1.69; 30000;occ; 92; 0;46105

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9;	2272.5;	24-DEC-2010	18:49:53;	Bright;	41.0;	176;	23Zet Tau ;	3.02;	22000;occ;	82;	0;	46105
10;	2397.1;	24-DEC-2010	18:51:57;	Bright;	41.0;	28;	12Bet Tau ;	1.65;	15200;occ;	82;	0;	46105
11;	2585.4;	24-DEC-2010	18:55:05;	Bright;	44.5;	107;	37The Aur ;	2.65;	11000;occ;	89;	0;	46105
12;	2691.8;	24-DEC-2010	18:56:52;	Bright;	43.0;	6;	13Alp Aur ;	0.08;	3400;occ;	86;	0;	46105
13;	3680.5;	24-DEC-2010	19:13:21;	Bright;	54.0;	60;	7Bet UMi ;	2.08;	3950;occ;	108;	0;	46105
14;	3928.2;	24-DEC-2010	19:17:28;	Bright;	46.5;	32;	77Eps UMa ;	1.76;	11000;occ;	93;	0;	46105
15;	4104.8;	24-DEC-2010	19:20:25;	Bright;	43.5;	39;	85Eta UMa ;	1.85;	24000;occ;	87;	0;	46105
16;	4326.5;	24-DEC-2010	19:24:07;	Bright;	39.5;	180;	27Gam Boo ;	3.04;	8000;occ;	79;	0;	46105
17;	4531.7;	24-DEC-2010	19:27:32;	Bright;	39.0;	83;	;	2.38;	11000;occ;	78;	0;	46105
18;	4752.3;	24-DEC-2010	19:31:12;	Bright;	68.0;	111;	8Eta Boo ;	2.68;	6000;occ;	136;	0;	46105
19;	5276.0;	24-DEC-2010	19:39:56;	Bright;	37.0;	122;	9Alp2Lib ;	2.75;	9700;occ;	74;	0;	46105
20;	5410.6;	24-DEC-2010	19:42:11;	Dark ;	59.5;	15;	67Alp Vir ;	0.98;	28000;occ;	119;	0;	46105
21;	5674.4;	24-DEC-2010	19:46:35;	Dark ;	44.5;	54;	5The Cen ;	2.06;	4500;occ;	89;	0;	46105
22;	5794.1;	24-DEC-2010	19:48:34;	Dark ;	44.0;	123;	Iot Cen ;	2.75;	10200;occ;	88;	0;	46105
23;	6035.7;	24-DEC-2010	19:52:36;	Dark ;	43.0;	64;	Gam Cen ;	2.20;	10600;occ;	86;	0;	46106
24;	6131.4;	24-DEC-2010	19:54:11;	Dark ;	59.5;	0;	;	0.00;	0;occ;	119;	0;	46106
25;	6391.1;	24-DEC-2010	19:58:31;	Dark ;	50.5;	113;	Mu Vel ;	2.69;	5000;occ;	101;	0;	46106
26;	6579.9;	24-DEC-2010	20:01:40;	Dark ;	42.5;	71;	Iot Car ;	2.25;	7700;occ;	85;	0;	46106
27;	6684.2;	24-DEC-2010	20:03:24;	Dark ;	56.5;	41;	Eps Car ;	1.86;	4100;occ;	113;	0;	46106
28;	6769.1;	24-DEC-2010	20:04:49;	Dark ;	58.5;	65;	Lam Vel ;	2.20;	4400;occ;	117;	0;	46106
29;	6865.0;	24-DEC-2010	20:06:25;	Dark ;	46.0;	34;	Gam2Vel ;	1.79;	23000;occ;	92;	0;	46106
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2;	-338.0;	25-DEC-2010	00:47:18;	Dark ;	47.5;	54;	5The Cen ;	2.06;	4500;occ;	95;	0;	46108
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4;	120.0;	25-DEC-2010	00:54:56;	Dark ;	59.5;	0;	;	0.00;	0;occ;	119;	0;	46109
5;	379.8;	25-DEC-2010	00:59:16;	Dark ;	46.5;	113;	Mu Vel ;	2.69;	5000;occ;	93;	0;	46109
6;	567.5;	25-DEC-2010	01:02:24;	Dark ;	41.0;	71;	Iot Car ;	2.25;	7700;occ;	82;	0;	46109
7;	671.5;	25-DEC-2010	01:04:08;	Dark ;	55.0;	41;	Eps Car ;	1.86;	4100;occ;	110;	0;	46109
8;	757.5;	25-DEC-2010	01:05:34;	Dark ;	58.5;	65;	Lam Vel ;	2.20;	4400;occ;	117;	0;	46109
9;	983.3;	25-DEC-2010	01:09:19;	Dark ;	50.0;	70;	Zet Pup ;	2.25;	39000;occ;	100;	0;	46109
10;	1122.8;	25-DEC-2010	01:11:39;	Dark ;	52.5;	117;	Pi Pup ;	2.71;	3800;occ;	105;	0;	46109
11;	1300.6;	25-DEC-2010	01:14:37;	Dark ;	50.0;	23;	21Eps CMa ;	1.50;	26000;occ;	100;	0;	46109
12;	1398.4;	25-DEC-2010	01:16:14;	Dark ;	48.0;	179;	240mi2CMa ;	3.03;	24000;occ;	96;	0;	46109
13;	1557.9;	25-DEC-2010	01:18:54;	Dark ;	55.0;	1;	9Alp CMa ;	-1.44;	11000;occ;	110;	0;	46109
14;	1746.8;	25-DEC-2010	01:22:03;	Dark ;	48.5;	7;	19Bet Ori ;	0.10;	14000;occ;	97;	0;	46109
15;	1866.5;	25-DEC-2010	01:24:03;	Dark ;	45.5;	30;	46Eps Ori ;	1.69;	30000;occ;	91;	0;	46109
16;	2030.0;	25-DEC-2010	01:26:46;	Dark ;	56.5;	14;	58Alp Ori ;	0.87;	3000;occ;	113;	0;	46109
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18;	2396.3;	25-DEC-2010	01:32:52;	Bright;	39.5;	28;	12Bet Tau ;	1.65;	15200;occ;	79;	0;	46109
19;	2583.8;	25-DEC-2010	01:36:00;	Bright;	39.0;	107;	37The Aur ;	2.65;	11000;occ;	78;	0;	46109
20;	2690.9;	25-DEC-2010	01:37:47;	Bright;	42.5;	6;	13Alp Aur ;	0.08;	3400;occ;	85;	0;	46109
21;	3680.3;	25-DEC-2010	01:54:16;	Bright;	38.0;	60;	7Bet UMi ;	2.08;	3950;occ;	76;	0;	46109
22;	3926.7;	25-DEC-2010	01:58:23;	Bright;	47.0;	32;	77Eps UMa ;	1.76;	11000;occ;	94;	0;	46109
23;	4104.2;	25-DEC-2010	02:01:20;	Bright;	43.0;	39;	85Eta UMa ;	1.85;	24000;occ;	86;	0;	46109
24;	4326.4;	25-DEC-2010	02:05:02;	Bright;	37.5;	180;	27Gam Boo ;	3.04;	8000;occ;	75;	0;	46109
25;	4532.3;	25-DEC-2010	02:08:28;	Bright;	58.0;	83;	;	2.38;	11000;occ;	116;	0;	46109
26;	4754.1;	25-DEC-2010	02:12:10;	Bright;	46.5;	111;	8Eta Boo ;	2.68;	6000;occ;	93;	0;	46109
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2;	-599.4;	25-DEC-2010	02:23:11;	Dark ;	53.5;	15;	67Alp Vir ;	0.98;	28000;occ;	107;	0;	46109
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7;	380.6;	25-DEC-2010	02:39:31;	Dark ;	46.5;	113;	Mu Vel ;	2.69;	5000;occ;	93;	0;	46110
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9;	672.1;	25-DEC-2010	02:44:22;	Dark ;	45.5;	41;	Eps Car ;	1.86;	4100;occ;	91;	0;	46110
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11;	853.2;	25-DEC-2010	02:47:23;	Dark ;	44.5;	34;	Gam2Vel ;	1.79;	23000;occ;	89;	0;	46110
12;	983.9;	25-DEC-2010	02:49:34;	Dark ;	51.5;	70;	Zet Pup ;	2.25;	39000;occ;	103;	0;	46110
13;	1123.3;	25-DEC-2010	02:51:53;	Dark ;	52.5;	117;	Pi Pup ;	2.71;	3800;occ;	105;	0;	46110
14;	1301.0;	25-DEC-2010	02:54:51;	Dark ;	47.5;	23;	21Eps CMa ;	1.50;	26000;occ;	95;	0;	46110
15;	1398.7;	25-DEC-2010	02:56:29;	Dark ;	49.0;	179;	240mi2CMa ;	3.03;	24000;occ;	98;	0;	46110
16;	1558.0;	25-DEC-2010	02:59:08;	Dark ;	52.0;	1;	9Alp CMa ;	-1.44;	11000;occ;	104;	0;	46110
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21; 2396.1; 25-DEC-2010 03:13:06; Bright; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;46110
22; 2583.5; 25-DEC-2010 03:16:13; Bright; 41.0; 107; 37The Aur ; 2.65; 11000;occ; 82; 0;46110
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11; 25.3; 25-DEC-2010 04:13:49; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;46111
12; 121.7; 25-DEC-2010 04:15:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46111
13; 381.5; 25-DEC-2010 04:19:46; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;46111
14; 568.8; 25-DEC-2010 04:22:53; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;46111
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23; 1747.2; 25-DEC-2010 04:42:31; Dark ; 54.0; 7; 19Bet Ori ; 0.10; 14000;occ; 108; 0;46111
24; 1866.4; 25-DEC-2010 04:44:30; Dark ; 45.5; 30; 46Eps Ori ; 1.69; 30000;occ; 91; 0;46111
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19; 1124.2; 25-DEC-2010 06:12:22; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;46112
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27; 2395.8; 25-DEC-2010 06:33:34; Bright; 41.5; 28; 12Bet Tau ; 1.65; 15200;occ; 83; 0;46112
28; 2582.8; 25-DEC-2010 06:36:41; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;46112
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7;	2571.8;	27-DEC-2010	08:43:31;	Bright;	39.5;	107;	37The Aur	;	2.65;	11000;occ;	79;	0;	46142	
8;	2685.3;	27-DEC-2010	08:45:24;	Bright;	40.0;	6;	13Alp Aur	;	0.08;	3400;occ;	80;	0;	46142	
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11;	4099.2;	27-DEC-2010	09:08:58;	Bright;	57.0;	39;	85Eta UMa	;	1.85;	24000;occ;	114;	0;	46142	
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13;	4538.7;	27-DEC-2010	09:16:18;	Bright;	39.0;	83;		;	2.38;	11000;occ;	78;	0;	46142	
14;	4768.1;	27-DEC-2010	09:20:07;	Bright;	50.5;	111;	8Eta Boo	;	2.68;	6000;occ;	101;	0;	46142	
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17;	5696.7;	27-DEC-2010	09:35:36;	Dark	;	48.0;	54;	5The Cen	;	2.06;	4500;occ;	96;	0;	46142
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23;	6702.0;	27-DEC-2010	09:52:21;	Dark	;	47.0;	41;	Eps Car	;	1.86;	4100;occ;	94;	0;	46143
24;	6886.4;	27-DEC-2010	09:55:25;	Dark	;	44.0;	34;	Gam2Vel	;	1.79;	23000;occ;	88;	0;	46143
25;	7017.4;	27-DEC-2010	09:57:36;	Dark	;	48.0;	70;	Zet Pup	;	2.25;	39000;occ;	96;	0;	46143
26;	7151.5;	27-DEC-2010	09:59:50;	Dark	;	50.0;	117;	Pi Pup	;	2.71;	3800;occ;	100;	0;	46143
27;	7325.5;	27-DEC-2010	10:02:45;	Dark	;	48.0;	23;	21Eps CMa	;	1.50;	26000;occ;	96;	0;	46143
28;	7421.2;	27-DEC-2010	10:04:20;	Dark	;	47.5;	179;	240mi2CMa	;	3.03;	24000;occ;	95;	0;	46143
29;	7576.3;	27-DEC-2010	10:06:55;	Dark	;	58.5;	1;	9Alp CMa	;	-1.44;	11000;occ;	117;	0;	46143
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27; 7435.0; 31-DEC-2010 10:58:07; Dark ; 44.0; 179; 24Omi2CMa ; 3.03; 24000;occ; 88; 0;46201
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 20; 5739.0; 31-DEC-2010 18:51:01; Dark ; 50.0; 54; 5The Cen ; 2.06; 4500;occ; 100; 0;46205  
 21; 5904.5; 31-DEC-2010 18:53:47; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;46205  
 22; 6112.9; 31-DEC-2010 18:57:15; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;46206  
 23; 6221.9; 31-DEC-2010 18:59:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46206  
 24; 6481.2; 31-DEC-2010 19:03:24; Dark ; 52.0; 113; Mu Vel ; 2.69; 5000;occ; 104; 0;46206  
 25; 6636.0; 31-DEC-2010 19:05:58; Dark ; 46.5; 71; Iot Car ; 2.25; 7700;occ; 93; 0;46206  
 26; 6749.9; 31-DEC-2010 19:07:52; Dark ; 47.0; 46; Del Vel ; 1.95; 10600;occ; 94; 0;46206  
 27; 6920.5; 31-DEC-2010 19:10:43; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;46206  
 28; 7051.4; 31-DEC-2010 19:12:54; Dark ; 22.5; 70; Zet Pup ; 2.25; 39000;occ; 45; 0;46206

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1;	1037.3;	31-DEC-2010	19:12:54;	Dark	;	49.0;	70;	Zet Pup	;	2.25;	39000;occ;	98;	0;46206
2;	1162.1;	31-DEC-2010	19:14:59;	Dark	;	47.0;	117;	Pi Pup	;	2.71;	3800;occ;	94;	0;46206
3;	1329.8;	31-DEC-2010	19:17:46;	Dark	;	44.0;	23;	21Eps CMa	;	1.50;	26000;occ;	88;	0;46206
4;	1422.0;	31-DEC-2010	19:19:18;	Dark	;	42.5;	179;	24Omi2CMa	;	3.03;	24000;occ;	85;	0;46206
5;	1569.9;	31-DEC-2010	19:21:46;	Dark	;	48.0;	1;	9Alp CMa	;	-1.44;	11000;occ;	96;	0;46206
6;	1719.2;	31-DEC-2010	19:24:16;	Dark	;	42.0;	56;	53Kap Ori	;	2.07;	30000;occ;	84;	0;46206
7;	1869.3;	31-DEC-2010	19:26:46;	Dark	;	44.5;	30;	46Eps Ori	;	1.69;	30000;occ;	89;	0;46206
8;	2020.2;	31-DEC-2010	19:29:17;	Dark	;	55.0;	14;	58Alp Ori	;	0.87;	3000;occ;	110;	0;46206
9;	2215.8;	31-DEC-2010	19:32:32;	Dark	;	57.0;	44;	24Gam Gem	;	1.93;	11000;occ;	114;	0;46206
10;	2313.6;	31-DEC-2010	19:34:10;	Bright;	;	47.5;	151;	13Mu Gem	;	2.89;	3000;occ;	95;	0;46206
11;	2552.7;	31-DEC-2010	19:38:09;	Bright;	;	39.0;	107;	37The Aur	;	2.65;	11000;occ;	78;	0;46206
12;	2677.7;	31-DEC-2010	19:40:14;	Bright;	;	41.0;	6;	13Alp Aur	;	0.08;	3400;occ;	82;	0;46206
13;	3672.2;	31-DEC-2010	19:56:49;	Bright;	;	35.0;	60;	7Bet UMi	;	2.08;	3950;occ;	70;	0;46206
14;	3891.1;	31-DEC-2010	20:00:28;	Bright;	;	49.5;	32;	77Eps UMa	;	1.76;	11000;occ;	99;	0;46206
15;	4087.7;	31-DEC-2010	20:03:44;	Bright;	;	66.0;	39;	85Eta UMa	;	1.85;	24000;occ;	132;	0;46206
16;	4330.9;	31-DEC-2010	20:07:47;	Bright;	;	62.0;	180;	27Gam Boo	;	3.04;	8000;occ;	124;	0;46206
17;	4551.4;	31-DEC-2010	20:11:28;	Bright;	;	62.0;	83;		;	2.38;	11000;occ;	124;	0;46206
18;	4746.2;	31-DEC-2010	20:14:43;	Bright;	;	53.5;	3;	16Alp Boo	;	-0.05;	4250;occ;	107;	0;46206
19;	5169.6;	31-DEC-2010	20:21:46;	Bright;	;	56.0;	104;	27Bet Lib	;	2.61;	13100;occ;	112;	0;46206
20;	5327.7;	31-DEC-2010	20:24:24;	Dark	;	45.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	91;	0;46206
21;	5739.5;	31-DEC-2010	20:31:16;	Dark	;	48.5;	54;	5The Cen	;	2.06;	4500;occ;	97;	0;46206
22;	5904.9;	31-DEC-2010	20:34:01;	Dark	;	42.0;	95;	Zet Cen	;	2.55;	26000;occ;	84;	0;46206
23;	6113.8;	31-DEC-2010	20:37:30;	Dark	;	44.5;	64;	Gam Cen	;	2.20;	10600;occ;	89;	0;46207
24;	6222.7;	31-DEC-2010	20:39:19;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;46207
25;	6482.0;	31-DEC-2010	20:43:38;	Dark	;	46.5;	113;	Mu Vel	;	2.69;	5000;occ;	93;	0;46207
26;	6636.4;	31-DEC-2010	20:46:13;	Dark	;	45.0;	71;	Iot Car	;	2.25;	7700;occ;	90;	0;46207
27;	6750.2;	31-DEC-2010	20:48:07;	Dark	;	42.5;	46;	Del Vel	;	1.95;	10600;occ;	85;	0;46207
28;	6921.0;	31-DEC-2010	20:50:57;	Dark	;	48.0;	34;	Gam2Vel	;	1.79;	23000;occ;	96;	0;46207
29;	7051.8;	31-DEC-2010	20:53:08;	Dark	;	23.5;	70;	Zet Pup	;	2.25;	39000;occ;	47;	0;46207