

GOMOS Daily Report 30-DEC-2009

Level 0 and Level 1 products

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

Item	Value
Time of report generation	01JAN2010 04:41:09
Data source version	GOMOS/5.00L04
Start time of products	30DEC2009 00:00:29
Stop time of products	30DEC2009 23:59:51
Store outputs in DB	Yes
Nb of level 1b prods	196
Nb of prods with errors	1

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

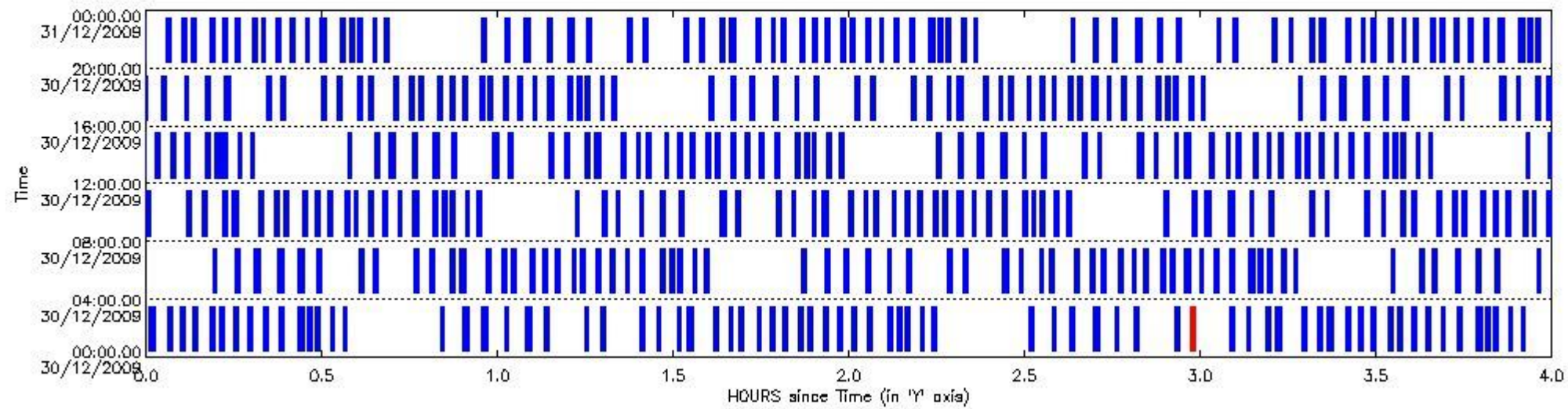
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
30-DEC-2009 02:58:16	9Alp2Lib	122	40953

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_1PNPDE20091230_000029_000000562085_00317_40952_1436.N1	30-DEC-2009 00:00:29	Dark	56.000	41	Eps Car	1.8600	4100.0	112	40952	No
2	GOM_TRA_1PNPDE20091230_000338_000000462085_00317_40952_1437.N1	30-DEC-2009 00:03:38	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	40952	No
3	GOM_TRA_1PNPDE20091230_000549_000000502085_00317_40952_1438.N1	30-DEC-2009 00:05:49	Dark	50.000	70	Zet Pup	2.2460	39000.	100	40952	No
4	GOM_TRA_1PNPDE20091230_000758_000000482085_00317_40952_1439.N1	30-DEC-2009 00:07:58	Dark	47.500	117	Pi Pup	2.7060	3800.0	95	40952	No
5	GOM_TRA_1PNPDE20091230_001049_000000472085_00317_40952_1440.N1	30-DEC-2009 00:10:49	Straylight	47.000	23	21Eps CMa	1.5020	26000.	94	40952	No
6	GOM_TRA_1PNPDE20091230_001223_000000482085_00317_40952_1441.N1	30-DEC-2009 00:12:23	Straylight	47.500	179	24Omi2CMa	3.0320	24000.	95	40952	No
7	GOM_TRA_1PNPDE20091230_001454_000000512085_00317_40952_1442.N1	30-DEC-2009 00:14:54	Straylight	50.500	1	9Alp CMa	-1.4400	11000.	101	40952	No
8	GOM_TRA_1PNPDE20091230_001725_000000442085_00317_40952_1443.N1	30-DEC-2009 00:17:25	Straylight	43.500	56	53Kap Ori	2.0650	30000.	87	40952	No
9	GOM_TRA_1PNPDE20091230_001956_000000432085_00317_40952_1444.N1	30-DEC-2009 00:19:56	Straylight	43.000	30	46Eps Ori	1.6940	30000.	86	40952	No
10	GOM_TRA_1PNPDE20091230_002231_000000512085_00317_40952_1445.N1	30-DEC-2009 00:22:31	Twilight_stray	51.000	14	58Alp Ori	0.87000	3000.0	102	40952	No

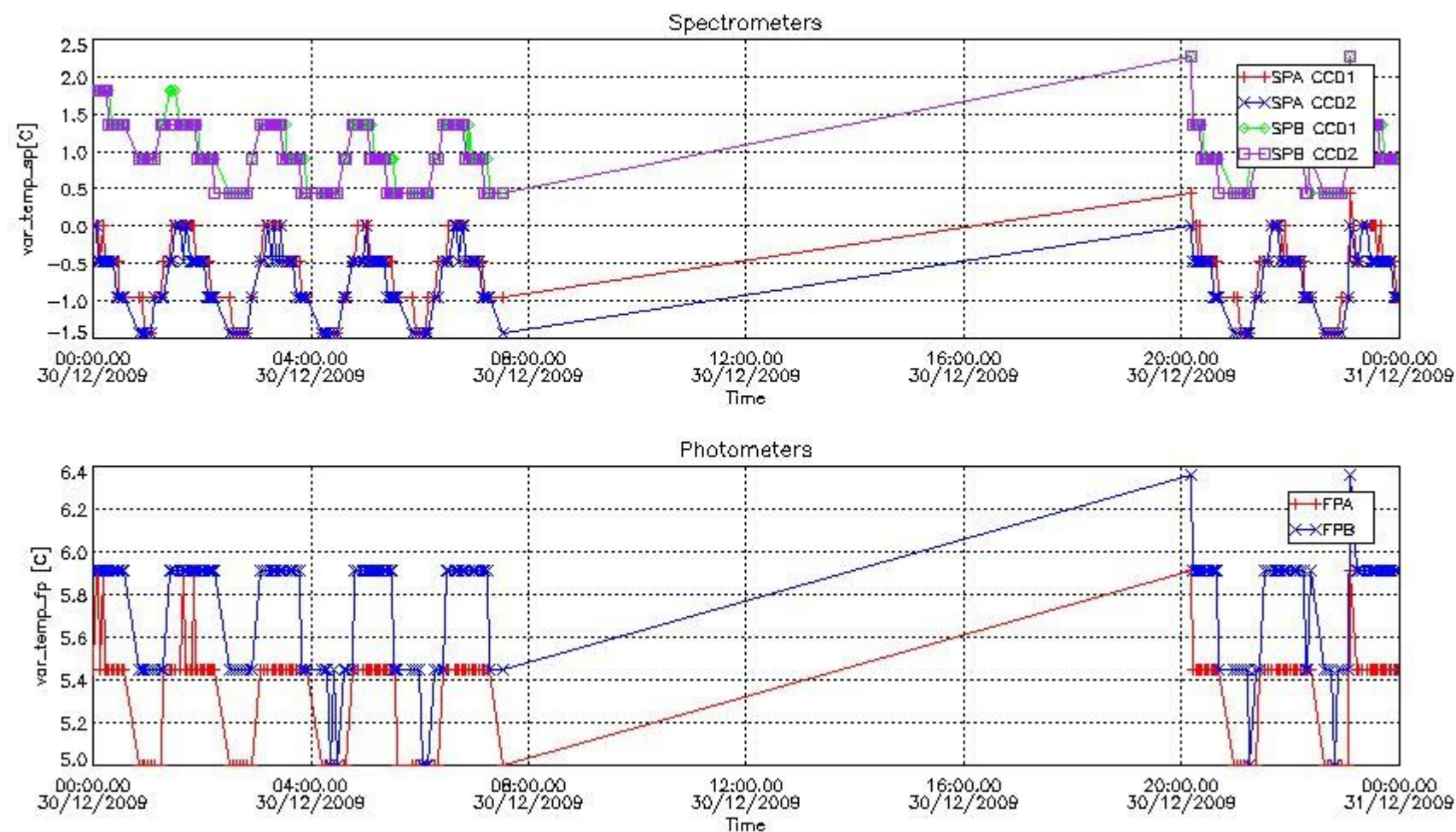
11	GOM_TRA_1PNPDE20091230_002556_000000642085_00317_40952_1446.N1	30-DEC-2009 00:25:56	Bright	64.000	44	24Gam Gem	1.9280	11000.	128	40952	No
12	GOM_TRA_1PNPDE20091230_002734_000000502085_00317_40952_1447.N1	30-DEC-2009 00:27:34	Bright	50.000	151	13Mu Gem	2.8900	3000.0	100	40952	No
13	GOM_TRA_1PNPDE20091230_002856_000000482085_00317_40952_1448.N1	30-DEC-2009 00:28:56	Bright	48.000	170	27Eps Gem	3.0000	9700.0	96	40952	No
14	GOM_TRA_1PNPDE20091230_003132_000000392085_00317_40952_1449.N1	30-DEC-2009 00:31:32	Bright	38.500	107	37The Aur	2.6490	11000.	77	40952	No
15	GOM_TRA_1PNPDE20091230_003332_000000472085_00317_40952_1450.N1	30-DEC-2009 00:33:32	Bright	46.500	6	13Alp Aur	0.080000	3400.0	93	40952	No
16	GOM_TRA_1PNPDE20091230_005010_000000392085_00317_40952_1451.N1	30-DEC-2009 00:50:10	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	40952	No
17	GOM_TRA_1PNPDE20091230_005359_000000682085_00317_40952_1452.N1	30-DEC-2009 00:53:59	Bright	68.000	32	77Eps UMa	1.7630	11000.	136	40952	No
18	GOM_TRA_1PNPDE20091230_005711_000000652085_00317_40952_1453.N1	30-DEC-2009 00:57:11	Bright	65.000	39	85Eta UMa	1.8540	24000.	130	40952	No
19	GOM_TRA_1PNPDE20091230_010109_000000402085_00317_40952_1454.N1	30-DEC-2009 01:01:09	Bright	40.000	180	27Gam Boo	3.0400	8000.0	80	40952	No
20	GOM_TRA_1PNPDE20091230_010445_000000602085_00317_40952_1455.N1	30-DEC-2009 01:04:45	Bright	60.000	83		2.3780	11000.	120	40952	No
21	GOM_TRA_1PNPDE20091230_010756_000000482085_00317_40952_1456.N1	30-DEC-2009 01:07:56	Bright	48.000	3	16Alp Boo	-0.050000	4250.0	96	40952	No
22	GOM_TRA_1PNPDE20091230_011458_000000342085_00317_40952_1457.N1	30-DEC-2009 01:14:58	Bright	34.000	104	27Bet Lib	2.6140	13100.	68	40952	No
23	GOM_TRA_1PNPDE20091230_011734_000000422085_00317_40952_1446.N1	30-DEC-2009 01:17:34	Tw_i_and_stray	41.500	122	9Alp2Lib	2.7470	9700.0	83	40952	No
24	GOM_TRA_1PNPDE20091230_012424_000000492085_00317_40952_1447.N1	30-DEC-2009 01:24:24	Dark	49.000	54	5The Cen	2.0550	4500.0	98	40952	No
25	GOM_TRA_1PNPDE20091230_012712_000000402085_00317_40952_1448.N1	30-DEC-2009 01:27:12	Dark	40.000	95	Zet Cen	2.5450	26000.	80	40952	No
26	GOM_TRA_1PNPDE20091230_013036_000000442085_00318_40953_1449.N1	30-DEC-2009 01:30:36	Dark	44.000	64	Gam Cen	2.2000	10600.	88	40953	No
27	GOM_TRA_1PNPDE20091230_013644_000000502085_00318_40953_1450.N1	30-DEC-2009 01:36:44	Dark	49.500	113	Mu Vel	2.6920	5000.0	99	40953	No
28	GOM_TRA_1PNPDE20091230_013928_000000412085_00318_40953_1451.N1	30-DEC-2009 01:39:28	Dark	41.000	71	lot Car	2.2460	7700.0	82	40953	No
29	GOM_TRA_1PNPDE20091230_014106_000000542085_00318_40953_1452.N1	30-DEC-2009 01:41:06	Dark	54.000	41	Eps Car	1.8600	4100.0	108	40953	No
30	GOM_TRA_1PNPDE20091230_014414_000000482085_00318_40953_1453.N1	30-DEC-2009 01:44:14	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	40953	No
31	GOM_TRA_1PNPDE20091230_014626_000000462085_00318_40953_1454.N1	30-DEC-2009 01:46:26	Dark	46.000	70	Zet Pup	2.2460	39000.	92	40953	No
32	GOM_TRA_1PNPDE20091230_014835_000000472085_00318_40953_1455.N1	30-DEC-2009 01:48:35	Dark	46.500	117	Pi Pup	2.7060	3800.0	93	40953	No
33	GOM_TRA_1PNPDE20091230_015125_000000472085_00318_40953_1456.N1	30-DEC-2009 01:51:25	Straylight	47.000	23	21Eps CMa	1.5020	26000.	94	40953	No
34	GOM_TRA_1PNPDE20091230_015300_000000472085_00318_40953_1457.N1	30-DEC-2009 01:53:00	Straylight	46.500	179	24Omi2CMa	3.0320	24000.	93	40953	No
35	GOM_TRA_1PNPDE20091230_015530_000000502085_00318_40953_1458.N1	30-DEC-2009 01:55:30	Straylight	50.000	1	9Alp CMa	-1.4400	11000.	100	40953	No
36	GOM_TRA_1PNPDE20091230_015801_000000432085_00318_40953_1459.N1	30-DEC-2009 01:58:01	Straylight	43.000	56	53Kap Ori	2.0650	30000.	86	40953	No
37	GOM_TRA_1PNPDE20091230_020033_000000442085_00318_40953_1460.N1	30-DEC-2009 02:00:33	Straylight	44.000	30	46Eps Ori	1.6940	30000.	88	40953	No
38	GOM_TRA_1PNPDE20091230_020307_000000522085_00318_40953_1461.N1	30-DEC-2009 02:03:07	Tw_i_and_stray	51.500	14	58Alp Ori	0.87000	3000.0	103	40953	No
39	GOM_TRA_1PNPDE20091230_020632_000000532085_00318_40953_1462.N1	30-DEC-2009 02:06:32	Bright	53.000	44	24Gam Gem	1.9280	11000.	106	40953	No
40	GOM_TRA_1PNPDE20091230_020809_000000512085_00318_40953_1463.N1	30-DEC-2009 02:08:09	Bright	50.500	151	13Mu Gem	2.8900	3000.0	101	40953	No
41	GOM_TRA_1PNPDE20091230_020932_000000462085_00318_40953_1464.N1	30-DEC-2009 02:09:32	Bright	46.000	170	27Eps Gem	3.0000	9700.0	92	40953	No
42	GOM_TRA_1PNPDE20091230_021207_000000402085_00318_40953_1465.N1	30-DEC-2009 02:12:07	Bright	39.500	107	37The Aur	2.6490	11000.	79	40953	No
43	GOM_TRA_1PNPDE20091230_021408_000000422085_00318_40953_1466.N1	30-DEC-2009 02:14:08	Bright	42.000	6	13Alp Aur	0.080000	3400.0	84	40953	No
44	GOM_TRA_1PNPDE20091230_023046_000000402085_00318_40953_1467.N1	30-DEC-2009 02:30:46	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	40953	No
45	GOM_TRA_1PNPDE20091230_023436_000000482085_00318_40953_1477.N1	30-DEC-2009 02:34:36	Bright	47.500	32	77Eps UMa	1.7630	11000.	95	40953	No
46	GOM_TRA_1PNPDE20091230_023747_000000472085_00318_40953_1478.N1	30-DEC-2009 02:37:47	Bright	47.000	39	85Eta UMa	1.8540	24000.	94	40953	No
47	GOM_TRA_1PNPDE20091230_024145_000000612085_00318_40953_1479.N1	30-DEC-2009 02:41:45	Bright	61.000	180	27Gam Boo	3.0400	8000.0	122	40953	No
48	GOM_TRA_1PNPDE20091230_024521_000000392085_00318_40953_1480.N1	30-DEC-2009 02:45:21	Bright	39.000	83		2.3780	11000.	78	40953	No
49	GOM_TRA_1PNPDE20091230_024832_000000512085_00318_40953_1481.N1	30-DEC-2009 02:48:32	Bright	51.000	3	16Alp Boo	-0.050000	4250.0	102	40953	No
50	GOM_TRA_1PNPDE20091230_025535_000000552085_00318_40953_1482.N1	30-DEC-2009 02:55:35	Bright	55.000	104	27Bet Lib	2.6140	13100.	110	40953	No
51	GOM_TRA_1PNPDE20091230_030500_000000412085_00318_40953_1483.N1	30-DEC-2009 03:05:00	Dark	40.500	54	5The Cen	2.0550	4500.0	81	40953	No
52	GOM_TRA_1PNPDE20091230_030749_000000402085_00318_40953_1484.N1	30-DEC-2009 03:07:49	Dark	39.500	95	Zet Cen	2.5450	26000.	79	40953	No
53	GOM_TRA_1PNPDE20091230_031113_000000502085_00319_40954_1485.N1	30-DEC-2009 03:11:13	Dark	49.500	64	Gam Cen	2.2000	10600.	99	40954	No
54	GOM_TRA_1PNPDE20091230_031721_000000472085_00319_40954_1486.N1	30-DEC-2009 03:17:21	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	40954	No
55	GOM_TRA_1PNPDE20091230_032004_000000412085_00319_40954_1487.N1	30-DEC-2009 03:20:04	Dark	41.000	71	lot Car	2.2460	7700.0	82	40954	No
56	GOM_TRA_1PNPDE20091230_032142_000000542085_00319_40954_1488.N1	30-DEC-2009 03:21:42	Dark	54.000	41	Eps Car	1.8600	4100.0	108	40954	No
57	GOM_TRA_1PNPDE20091230_032451_000000472085_00319_40954_1489.N1	30-DEC-2009 03:24:51	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	40954	No
58	GOM_TRA_1PNPDE20091230_032702_000000462085_00319_40954_1490.N1	30-DEC-2009 03:27:02	Dark	45.500	70	Zet Pup	2.2460	39000.	91	40954	No
59	GOM_TRA_1PNPDE20091230_032911_000000472085_00319_40954_1491.N1	30-DEC-2009 03:29:11	Dark	47.000	117	Pi Pup	2.7060	3800.0	94	40954	No
60	GOM_TRA_1PNPDE20091230_033201_000000492085_00319_40954_1492.N1	30-DEC-2009 03:32:01	Straylight	49.000	23	21Eps CMa	1.5020	26000.	98	40954	No
61	GOM_TRA_1PNPDE20091230_033336_000000482085_00319_40954_1493.N1	30-DEC-2009 03:33:36	Straylight	47.500	179	24Omi2CMa	3.0320	24000.	95	40954	No
62	GOM_TRA_1PNPDE20091230_033607_000000502085_00319_40954_1494.N1	30-DEC-2009 03:36:07	Straylight	49.500	1	9Alp CMa	-1.4400	11000.	99	40954	No
63	GOM_TRA_1PNPDE20091230_033837_000000422085_00319_40954_1495.N1	30-DEC-2009 03:38:37	Straylight	42.000	56	53Kap Ori	2.0650	30000.	84	40954	No
64	GOM_TRA_1PNPDE20091230_034108_000000422085_00319_40954_1496.N1	30-DEC-2009 03:41:08	Straylight	41.500	30	46Eps Ori	1.6940	30000.	83	40954	No
65	GOM_TRA_1PNPDE20091230_034343_000000492085_00319_40954_1497.N1	30-DEC-2009 03:43:43	Tw_i_and_stray	49.000	14	58Alp Ori	0.87000	3000.0	98	40954	No
66	GOM_TRA_1PNPDE20091230_034707_000000532085_00319_40954_1498.N1	30-DEC-2009 03:47:07	Bright	52.500	44	24Gam Gem	1.9280	11000.	105	40954	No
67	GOM_TRA_1PNPDE20091230_034845_000000502085_00319_40954_1499.N1	30-DEC-2009 03:48:45	Bright	49.500	151	13Mu Gem	2.8900	3000.0	99	40954	No
68	GOM_TRA_1PNPDE20091230_035007_000000482085_00319_40954_1500.N1	30-DEC-2009 03:50:07	Bright	47.500	170	27Eps Gem	3.0000	9700.0	95	40954	No
69	GOM_TRA_1PNPDE20091230_035243_000000392085_00319_40954_1501.N1	30-DEC-2009 03:52:43	Bright	38.500	107	37The Aur	2.6490	11000.	77	40954	No

70	GOM_TRA_1PNPDE20091230_035444_000000452085_00319_40954_1502.N1	30-DEC-2009 03:54:44	Bright	44.500	6	13Alp Aur	0.080000	3400.0	89	40954	No
71	GOM_TRA_1PNPDE20091230_041122_000000422085_00319_40954_1501.N1	30-DEC-2009 04:11:22	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	40954	No
72	GOM_TRA_1PNPDE20091230_041511_000000502085_00319_40954_1502.N1	30-DEC-2009 04:15:11	Bright	49.500	32	77Eps UMa	1.7630	11000.	99	40954	No
73	GOM_TRA_1PNPDE20091230_041822_000000652085_00319_40954_1503.N1	30-DEC-2009 04:18:22	Bright	65.000	39	85Eta UMa	1.8540	24000.	130	40954	No
74	GOM_TRA_1PNPDE20091230_042221_000000612085_00319_40954_1504.N1	30-DEC-2009 04:22:21	Bright	61.000	180	27Gam Boo	3.0400	8000.0	122	40954	No
75	GOM_TRA_1PNPDE20091230_042557_000000602085_00319_40954_1505.N1	30-DEC-2009 04:25:57	Bright	60.000	83		2.3780	11000.	120	40954	No
76	GOM_TRA_1PNPDE20091230_042908_000000512085_00319_40954_1506.N1	30-DEC-2009 04:29:08	Bright	50.500	3	16Alp Boo	-0.050000	4250.0	101	40954	No
77	GOM_TRA_1PNPDE20091230_043611_000000552085_00319_40954_1507.N1	30-DEC-2009 04:36:11	Bright	55.000	104	27Bet Lib	2.6140	13100.	110	40954	No
78	GOM_TRA_1PNPDE20091230_043847_000000422085_00319_40954_1508.N1	30-DEC-2009 04:38:47	Twilight	41.500	122	9Alp2Lib	2.7470	9700.0	83	40954	No
79	GOM_TRA_1PNPDE20091230_044537_000000472085_00319_40954_1509.N1	30-DEC-2009 04:45:37	Dark	46.500	54	5The Cen	2.0550	4500.0	93	40954	No
80	GOM_TRA_1PNPDE20091230_044825_000000432085_00319_40954_1510.N1	30-DEC-2009 04:48:25	Dark	43.000	95	Zet Cen	2.5450	26000.	86	40954	No
81	GOM_TRA_1PNPDE20091230_045150_000000442085_00320_40955_1511.N1	30-DEC-2009 04:51:50	Dark	44.000	64	Gam Cen	2.2000	10600.	88	40955	No
82	GOM_TRA_1PNPDE20091230_045757_000000472085_00320_40955_1512.N1	30-DEC-2009 04:57:57	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	40955	No
83	GOM_TRA_1PNPDE20091230_050041_000000452085_00320_40955_1513.N1	30-DEC-2009 05:00:41	Dark	44.500	71	lot Car	2.2460	7700.0	89	40955	No
84	GOM_TRA_1PNPDE20091230_050218_000000472085_00320_40955_1514.N1	30-DEC-2009 05:02:18	Dark	46.500	41	Eps Car	1.8600	4100.0	93	40955	No
85	GOM_TRA_1PNPDE20091230_050527_000000472085_00320_40955_1515.N1	30-DEC-2009 05:05:27	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	40955	No
86	GOM_TRA_1PNPDE20091230_050739_000000492085_00320_40955_1516.N1	30-DEC-2009 05:07:39	Dark	48.500	70	Zet Pup	2.2460	39000.	97	40955	No
87	GOM_TRA_1PNPDE20091230_050947_000000492085_00320_40955_1517.N1	30-DEC-2009 05:09:47	Dark	48.500	117	Pi Pup	2.7060	3800.0	97	40955	No
88	GOM_TRA_1PNPDE20091230_051238_000000472085_00320_40955_1518.N1	30-DEC-2009 05:12:38	Straylight	47.000	23	21Eps CMa	1.5020	26000.	94	40955	No
89	GOM_TRA_1PNPDE20091230_051412_000000462085_00320_40955_1519.N1	30-DEC-2009 05:14:12	Straylight	46.000	179	24Omi2CMa	3.0320	24000.	92	40955	No
90	GOM_TRA_1PNPDE20091230_051643_000000512085_00320_40955_1520.N1	30-DEC-2009 05:16:43	Straylight	50.500	1	9Alp CMa	-1.4400	11000.	101	40955	No
91	GOM_TRA_1PNPDE20091230_051913_000000412085_00320_40955_1521.N1	30-DEC-2009 05:19:13	Straylight	41.000	56	53Kap Ori	2.0650	30000.	82	40955	No
92	GOM_TRA_1PNPDE20091230_052144_000000432085_00320_40955_1522.N1	30-DEC-2009 05:21:44	Straylight	42.500	30	46Eps Ori	1.6940	30000.	85	40955	No
93	GOM_TRA_1PNPDE20091230_052419_000000522085_00320_40955_1523.N1	30-DEC-2009 05:24:19	Twilight	52.000	14	58Alp Ori	0.87000	3000.0	104	40955	No
94	GOM_TRA_1PNPDE20091230_052743_000000522085_00320_40955_1524.N1	30-DEC-2009 05:27:43	Bright	52.000	44	24Gam Gem	1.9280	11000.	104	40955	No
95	GOM_TRA_1PNPDE20091230_052920_000000462085_00320_40955_1525.N1	30-DEC-2009 05:29:20	Bright	45.500	151	13Mu Gem	2.8900	3000.0	91	40955	No
96	GOM_TRA_1PNPDE20091230_053043_000000462085_00320_40955_1526.N1	30-DEC-2009 05:30:43	Bright	45.500	170	27Eps Gem	3.0000	9700.0	91	40955	No
97	GOM_TRA_1PNPDE20091230_053319_000000402085_00320_40955_1527.N1	30-DEC-2009 05:33:19	Bright	39.500	107	37The Aur	2.6490	11000.	79	40955	No
98	GOM_TRA_1PNPDE20091230_053520_000000402085_00320_40955_1528.N1	30-DEC-2009 05:35:20	Bright	39.500	6	13Alp Aur	0.080000	3400.0	79	40955	No
99	GOM_TRA_1PNPDE20091230_055158_000000412085_00320_40955_1524.N1	30-DEC-2009 05:51:58	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	40955	No
100	GOM_TRA_1PNPDE20091230_055546_000000472085_00320_40955_1525.N1	30-DEC-2009 05:55:46	Bright	47.000	32	77Eps UMa	1.7630	11000.	94	40955	No
101	GOM_TRA_1PNPDE20091230_055858_000000512085_00320_40955_1526.N1	30-DEC-2009 05:58:58	Bright	51.000	39	85Eta UMa	1.8540	24000.	102	40955	No
102	GOM_TRA_1PNPDE20091230_060256_000000392085_00320_40955_1527.N1	30-DEC-2009 06:02:56	Bright	38.500	180	27Gam Boo	3.0400	8000.0	77	40955	No
103	GOM_TRA_1PNPDE20091230_060634_000000412085_00320_40955_1528.N1	30-DEC-2009 06:06:34	Bright	41.000	83		2.3780	11000.	82	40955	No
104	GOM_TRA_1PNPDE20091230_060945_000000502085_00320_40955_1529.N1	30-DEC-2009 06:09:45	Bright	50.000	3	16Alp Boo	-0.050000	4250.0	100	40955	No
105	GOM_TRA_1PNPDE20091230_061648_000000552085_00320_40955_1530.N1	30-DEC-2009 06:16:48	Bright	55.000	104	27Bet Lib	2.6140	13100.	110	40955	No
106	GOM_TRA_1PNPDE20091230_061923_000000462085_00320_40955_1531.N1	30-DEC-2009 06:19:23	Twilight	46.000	122	9Alp2Lib	2.7470	9700.0	92	40955	No
107	GOM_TRA_1PNPDE20091230_062614_000000542085_00320_40955_1532.N1	30-DEC-2009 06:26:14	Dark	53.500	54	5The Cen	2.0550	4500.0	107	40955	No
108	GOM_TRA_1PNPDE20091230_062902_000000432085_00320_40955_1533.N1	30-DEC-2009 06:29:02	Dark	43.000	95	Zet Cen	2.5450	26000.	86	40955	No
109	GOM_TRA_1PNPDE20091230_063227_000000442085_00321_40956_1534.N1	30-DEC-2009 06:32:27	Dark	43.500	64	Gam Cen	2.2000	10600.	87	40956	No
110	GOM_TRA_1PNPDE20091230_063834_000000492085_00321_40956_1535.N1	30-DEC-2009 06:38:34	Dark	49.000	113	Mu Vel	2.6920	5000.0	98	40956	No
111	GOM_TRA_1PNPDE20091230_064117_000000402085_00321_40956_1536.N1	30-DEC-2009 06:41:17	Dark	40.000	71	lot Car	2.2460	7700.0	80	40956	No
112	GOM_TRA_1PNPDE20091230_064255_000000552085_00321_40956_1537.N1	30-DEC-2009 06:42:55	Dark	55.000	41	Eps Car	1.8600	4100.0	110	40956	No
113	GOM_TRA_1PNPDE20091230_064604_000000452085_00321_40956_1538.N1	30-DEC-2009 06:46:04	Dark	44.500	34	Gam2Vel	1.7930	23000.	89	40956	No
114	GOM_TRA_1PNPDE20091230_064815_000000472085_00321_40956_1539.N1	30-DEC-2009 06:48:15	Dark	47.000	70	Zet Pup	2.2460	39000.	94	40956	No
115	GOM_TRA_1PNPDE20091230_065024_000000472085_00321_40956_1540.N1	30-DEC-2009 06:50:24	Dark	46.500	117	Pi Pup	2.7060	3800.0	93	40956	No
116	GOM_TRA_1PNPDE20091230_065314_000000482085_00321_40956_1541.N1	30-DEC-2009 06:53:14	Straylight	47.500	23	21Eps CMa	1.5020	26000.	95	40956	No
117	GOM_TRA_1PNPDE20091230_065448_000000472085_00321_40956_1542.N1	30-DEC-2009 06:54:48	Straylight	46.500	179	24Omi2CMa	3.0320	24000.	93	40956	No
118	GOM_TRA_1PNPDE20091230_065719_000000552085_00321_40956_1543.N1	30-DEC-2009 06:57:19	Straylight	55.000	1	9Alp CMa	-1.4400	11000.	110	40956	No
119	GOM_TRA_1PNPDE20091230_065949_000000432085_00321_40956_1544.N1	30-DEC-2009 06:59:49	Straylight	43.000	56	53Kap Ori	2.0650	30000.	86	40956	No
120	GOM_TRA_1PNPDE20091230_070221_000000442085_00321_40956_1545.N1	30-DEC-2009 07:02:21	Straylight	43.500	30	46Eps Ori	1.6940	30000.	87	40956	No
121	GOM_TRA_1PNPDE20091230_070455_000000562085_00321_40956_1546.N1	30-DEC-2009 07:04:55	Twilight	55.500	14	58Alp Ori	0.87000	3000.0	111	40956	No
122	GOM_TRA_1PNPDE20091230_070819_000000542085_00321_40956_1547.N1	30-DEC-2009 07:08:19	Bright	54.000	44	24Gam Gem	1.9280	11000.	108	40956	No
123	GOM_TRA_1PNPDE20091230_070956_000000462085_00321_40956_1548.N1	30-DEC-2009 07:09:56	Bright	45.500	151	13Mu Gem	2.8900	3000.0	91	40956	No
124	GOM_TRA_1PNPDE20091230_071118_000000492085_00321_40956_1549.N1	30-DEC-2009 07:11:18	Bright	48.500	170	27Eps Gem	3.0000	9700.0	97	40956	No
125	GOM_TRA_1PNPDE20091230_071354_000000402085_00321_40956_1550.N1	30-DEC-2009 07:13:54	Bright	40.000	107	37The Aur	2.6490	11000.	80	40956	No
126	GOM_TRA_1PNPDE20091230_071555_000000412085_00321_40956_1551.N1	30-DEC-2009 07:15:55	Bright	40.500	6	13Alp Aur	0.080000	3400.0	81	40956	No
127	GOM_TRA_1PNPDE20091230_073234_000000342085_00321_40956_1552.N1	30-DEC-2009 07:32:34	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	40956	No
128	GOM_TRA_1PNPDE20091230_201055_000000462085_00329_40964_1599.N1	30-DEC-2009 20:10:55	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	40964	Yes

129	GOM_TRA_1PNPDE20091230_201307_000000442085_00329_40964_1600.N1	30-DEC-2009 20:13:07	Dark	44.000	70	Zet Pup	2.2460	39000.	88	40964	No
130	GOM_TRA_1PNPDE20091230_201514_000000482085_00329_40964_1601.N1	30-DEC-2009 20:15:14	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	40964	No
131	GOM_TRA_1PNPDE20091230_201804_000000472085_00329_40964_1602.N1	30-DEC-2009 20:18:04	Straylight	47.000	23	21Eps CMa	1.5020	26000.	94	40964	No
132	GOM_TRA_1PNPDE20091230_201938_000000452085_00329_40964_1603.N1	30-DEC-2009 20:19:38	Straylight	45.000	179	24Omi2CMa	3.0320	24000.	90	40964	No
133	GOM_TRA_1PNPDE20091230_202207_000000492085_00329_40964_1604.N1	30-DEC-2009 20:22:07	Straylight	49.000	1	9Alp CMa	-1.4400	11000.	98	40964	No
134	GOM_TRA_1PNPDE20091230_202437_000000432085_00329_40964_1605.N1	30-DEC-2009 20:24:37	Straylight	43.000	56	53Kap Ori	2.0650	30000.	86	40964	No
135	GOM_TRA_1PNPDE20091230_202708_000000432085_00329_40964_1606.N1	30-DEC-2009 20:27:08	Straylight	42.500	30	46Eps Ori	1.6940	30000.	85	40964	No
136	GOM_TRA_1PNPDE20091230_202942_000000552085_00329_40964_1607.N1	30-DEC-2009 20:29:42	Twilight_stray	54.500	14	58Alp Ori	0.87000	3000.0	109	40964	No
137	GOM_TRA_1PNPDE20091230_203303_000000522085_00329_40964_1608.N1	30-DEC-2009 20:33:03	Bright	52.000	44	24Gam Gem	1.9280	11000.	104	40964	No
138	GOM_TRA_1PNPDE20091230_203441_000000502085_00329_40964_1609.N1	30-DEC-2009 20:34:41	Bright	49.500	151	13Mu Gem	2.8900	3000.0	99	40964	No
139	GOM_TRA_1PNPDE20091230_203602_000000462085_00329_40964_1610.N1	30-DEC-2009 20:36:02	Bright	45.500	170	27Eps Gem	3.0000	9700.0	91	40964	No
140	GOM_TRA_1PNPDE20091230_203840_000000402085_00329_40964_1611.N1	30-DEC-2009 20:38:40	Bright	39.500	107	37The Aur	2.6490	11000.	79	40964	No
141	GOM_TRA_1PNPDE20091230_204042_000000442085_00329_40964_1612.N1	30-DEC-2009 20:40:42	Bright	44.000	6	13Alp Aur	0.080000	3400.0	88	40964	No
142	GOM_TRA_1PNPDE20091230_205721_000000352085_00329_40964_1613.N1	30-DEC-2009 20:57:21	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	40964	No
143	GOM_TRA_1PNPDE20091230_210106_000000512085_00329_40964_1614.N1	30-DEC-2009 21:01:06	Bright	51.000	32	77Eps UMa	1.7630	11000.	102	40964	No
144	GOM_TRA_1PNPDE20091230_210420_000000652085_00329_40964_1615.N1	30-DEC-2009 21:04:20	Bright	65.000	39	85Eta UMa	1.8540	24000.	130	40964	No
145	GOM_TRA_1PNPDE20091230_210820_000000612085_00329_40964_1616.N1	30-DEC-2009 21:08:20	Bright	61.000	180	27Gam Boo	3.0400	8000.0	122	40964	No
146	GOM_TRA_1PNPDE20091230_211159_000000612085_00329_40964_1617.N1	30-DEC-2009 21:11:59	Bright	61.000	83		2.3780	11000.	122	40964	No
147	GOM_TRA_1PNPDE20091230_211512_000000532085_00329_40964_1618.N1	30-DEC-2009 21:15:12	Bright	53.000	3	16Alp Boo	-0.050000	4250.0	106	40964	No
148	GOM_TRA_1PNPDE20091230_212215_000000362085_00329_40964_1619.N1	30-DEC-2009 21:22:15	Bright	35.500	104	27Bet Lib	2.6140	13100.	71	40964	No
149	GOM_TRA_1PNPDE20091230_212452_000000452085_00329_40964_1617.N1	30-DEC-2009 21:24:52	Twilight_stray	44.500	122	9Alp2Lib	2.7470	9700.0	89	40964	No
150	GOM_TRA_1PNPDE20091230_213143_000000542085_00329_40964_1618.N1	30-DEC-2009 21:31:43	Dark	53.500	54	5The Cen	2.0550	4500.0	107	40964	No
151	GOM_TRA_1PNPDE20091230_213431_000000432085_00329_40964_1619.N1	30-DEC-2009 21:34:31	Dark	42.500	95	Zet Cen	2.5450	26000.	85	40964	No
152	GOM_TRA_1PNPDE20091230_213757_000000432085_00330_40965_1620.N1	30-DEC-2009 21:37:57	Dark	43.000	64	Gam Cen	2.2000	10600.	86	40965	No
153	GOM_TRA_1PNPDE20091230_214406_000000492085_00330_40965_1621.N1	30-DEC-2009 21:44:06	Dark	48.500	113	Mu Vel	2.6920	5000.0	97	40965	No
154	GOM_TRA_1PNPDE20091230_214646_000000402085_00330_40965_1622.N1	30-DEC-2009 21:46:46	Dark	40.000	71	lot Car	2.2460	7700.0	80	40965	No
155	GOM_TRA_1PNPDE20091230_214822_000000542085_00330_40965_1623.N1	30-DEC-2009 21:48:22	Dark	54.000	41	Eps Car	1.8600	4100.0	108	40965	No
156	GOM_TRA_1PNPDE20091230_215132_000000472085_00330_40965_1624.N1	30-DEC-2009 21:51:32	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40965	No
157	GOM_TRA_1PNPDE20091230_215343_000000452085_00330_40965_1625.N1	30-DEC-2009 21:53:43	Dark	45.000	70	Zet Pup	2.2460	39000.	90	40965	No
158	GOM_TRA_1PNPDE20091230_215550_000000492085_00330_40965_1626.N1	30-DEC-2009 21:55:50	Dark	49.000	117	Pi Pup	2.7060	3800.0	98	40965	No
159	GOM_TRA_1PNPDE20091230_215840_000000472085_00330_40965_1627.N1	30-DEC-2009 21:58:40	Straylight	47.000	23	21Eps CMa	1.5020	26000.	94	40965	No
160	GOM_TRA_1PNPDE20091230_220014_000000462085_00330_40965_1628.N1	30-DEC-2009 22:00:14	Straylight	45.500	179	24Omi2CMa	3.0320	24000.	91	40965	No
161	GOM_TRA_1PNPDE20091230_220243_000000502085_00330_40965_1629.N1	30-DEC-2009 22:02:43	Straylight	49.500	1	9Alp CMa	-1.4400	11000.	99	40965	No
162	GOM_TRA_1PNPDE20091230_220513_000000432085_00330_40965_1630.N1	30-DEC-2009 22:05:13	Straylight	42.500	56	53Kap Ori	2.0650	30000.	85	40965	No
163	GOM_TRA_1PNPDE20091230_220744_000000442085_00330_40965_1631.N1	30-DEC-2009 22:07:44	Straylight	43.500	30	46Eps Ori	1.6940	30000.	87	40965	No
164	GOM_TRA_1PNPDE20091230_221017_000000562085_00330_40965_1632.N1	30-DEC-2009 22:10:17	Twilight_stray	56.000	14	58Alp Ori	0.87000	3000.0	112	40965	No
165	GOM_TRA_1PNPDE20091230_221339_000000542085_00330_40965_1633.N1	30-DEC-2009 22:13:39	Bright	54.000	44	24Gam Gem	1.9280	11000.	108	40965	No
166	GOM_TRA_1PNPDE20091230_221516_000000472085_00330_40965_1634.N1	30-DEC-2009 22:15:16	Bright	46.500	151	13Mu Gem	2.8900	3000.0	93	40965	No
167	GOM_TRA_1PNPDE20091230_221637_000000472085_00330_40965_1635.N1	30-DEC-2009 22:16:37	Bright	46.500	170	27Eps Gem	3.0000	9700.0	93	40965	No
168	GOM_TRA_1PNPDE20091230_221915_000000382085_00330_40965_1636.N1	30-DEC-2009 22:19:15	Bright	38.000	107	37The Aur	2.6490	11000.	76	40965	No
169	GOM_TRA_1PNPDE20091230_222118_000000432085_00330_40965_1637.N1	30-DEC-2009 22:21:18	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	40965	No
170	GOM_TRA_1PNPDE20091230_223756_000000392085_00330_40965_1638.N1	30-DEC-2009 22:37:56	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	40965	No
171	GOM_TRA_1PNPDE20091230_224142_000000442085_00330_40965_1639.N1	30-DEC-2009 22:41:42	Bright	44.000	32	77Eps UMa	1.7630	11000.	88	40965	No
172	GOM_TRA_1PNPDE20091230_224456_000000462085_00330_40965_1640.N1	30-DEC-2009 22:44:56	Bright	45.500	39	85Eta UMa	1.8540	24000.	91	40965	No
173	GOM_TRA_1PNPDE20091230_224856_000000612085_00330_40965_1641.N1	30-DEC-2009 22:48:56	Bright	61.000	180	27Gam Boo	3.0400	8000.0	122	40965	No
174	GOM_TRA_1PNPDE20091230_225235_000000612085_00330_40965_1642.N1	30-DEC-2009 22:52:35	Bright	61.000	83		2.3780	11000.	122	40965	No
175	GOM_TRA_1PNPDE20091230_225548_000000532085_00330_40965_1643.N1	30-DEC-2009 22:55:48	Bright	52.500	3	16Alp Boo	-0.050000	4250.0	105	40965	No
176	GOM_TRA_1PNPDE20091230_230251_000000352085_00330_40965_1644.N1	30-DEC-2009 23:02:51	Bright	35.000	104	27Bet Lib	2.6140	13100.	70	40965	No
177	GOM_TRA_1PNPDE20091230_230528_000000452085_00330_40965_1639.N1	30-DEC-2009 23:05:28	Twilight_stray	45.000	122	9Alp2Lib	2.7470	9700.0	90	40965	No
178	GOM_TRA_1PNPDE20091230_231220_000000482085_00330_40965_1640.N1	30-DEC-2009 23:12:20	Dark	47.500	54	5The Cen	2.0550	4500.0	95	40965	No
179	GOM_TRA_1PNPDE20091230_231507_000000402085_00330_40965_1641.N1	30-DEC-2009 23:15:07	Dark	39.500	95	Zet Cen	2.5450	26000.	79	40965	No
180	GOM_TRA_1PNPDE20091230_231834_000000522085_00331_40966_1642.N1	30-DEC-2009 23:18:34	Dark	51.500	64	Gam Cen	2.2000	10600.	103	40966	No
181	GOM_TRA_1PNPDE20091230_232443_000000532085_00331_40966_1643.N1	30-DEC-2009 23:24:43	Dark	52.500	113	Mu Vel	2.6920	5000.0	105	40966	No
182	GOM_TRA_1PNPDE20091230_232722_000000412085_00331_40966_1644.N1	30-DEC-2009 23:27:22	Dark	40.500	71	lot Car	2.2460	7700.0	81	40966	No
183	GOM_TRA_1PNPDE20091230_232859_000000492085_00331_40966_1645.N1	30-DEC-2009 23:28:59	Dark	49.000	41	Eps Car	1.8600	4100.0	98	40966	No
184	GOM_TRA_1PNPDE20091230_233208_000000472085_00331_40966_1646.N1	30-DEC-2009 23:32:08	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	40966	No
185	GOM_TRA_1PNPDE20091230_233420_000000482085_00331_40966_1647.N1	30-DEC-2009 23:34:20	Dark	47.500	70	Zet Pup	2.2460	39000.	95	40966	No
186	GOM_TRA_1PNPDE20091230_233627_000000492085_00331_40966_1648.N1	30-DEC-2009 23:36:27	Dark	49.000	117	Pi Pup	2.7060	3800.0	98	40966	No
187	GOM_TRA_1PNPDE20091230_233916_000000472085_00331_40966_1649.N1	30-DEC-2009 23:39:16	Straylight	46.500	23	21Eps CMa	1.5020	26000.	93	40966	No

188	GOM_TRA_1PNPDE20091230_234050_000000462085_00331_40966_1650.N1	30-DEC-2009 23:40:50	Straylight	45.500	179	24Omi2CMa	3.0320	24000.	91	40966	No
189	GOM_TRA_1PNPDE20091230_234319_000000512085_00331_40966_1651.N1	30-DEC-2009 23:43:19	Straylight	50.500	1	9Alp CMa	-1.4400	11000.	101	40966	No
190	GOM_TRA_1PNPDE20091230_234549_000000412085_00331_40966_1652.N1	30-DEC-2009 23:45:49	Straylight	40.500	56	53Kap Ori	2.0650	30000.	81	40966	No
191	GOM_TRA_1PNPDE20091230_234820_000000442085_00331_40966_1653.N1	30-DEC-2009 23:48:20	Straylight	44.000	30	46Eps Ori	1.6940	30000.	88	40966	No
192	GOM_TRA_1PNPDE20091230_235053_000000532085_00331_40966_1654.N1	30-DEC-2009 23:50:53	Twilight_stray	53.000	14	58Alp Ori	0.87000	3000.0	106	40966	No
193	GOM_TRA_1PNPDE20091230_235414_000000632085_00331_40966_1655.N1	30-DEC-2009 23:54:14	Bright	63.000	44	24Gam Gem	1.9280	11000.	126	40966	No
194	GOM_TRA_1PNPDE20091230_235552_000000502085_00331_40966_1656.N1	30-DEC-2009 23:55:52	Bright	50.000	151	13Mu Gem	2.8900	3000.0	100	40966	No
195	GOM_TRA_1PNPDE20091230_235712_000000452085_00331_40966_1657.N1	30-DEC-2009 23:57:12	Bright	45.000	170	27Eps Gem	3.0000	9700.0	90	40966	No
196	GOM_TRA_1PNPDE20091230_235951_000000572085_00331_40966_1658.N1	30-DEC-2009 23:59:51	Bright	57.000	107	37The Aur	2.6490	11000.	114	40966	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).

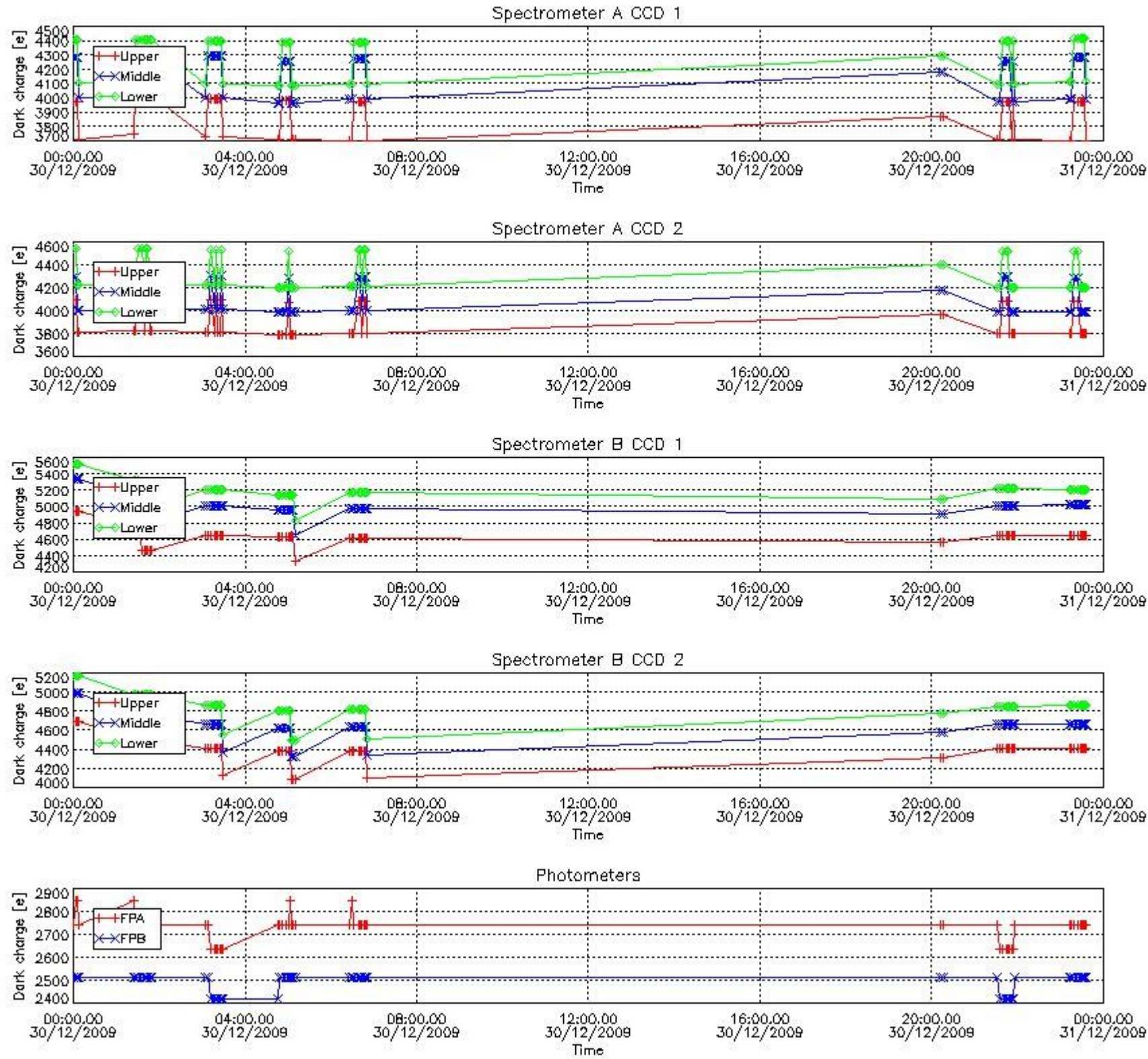
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20091230_201055_000000462085_00329_40964_1599.N1	DC map with no T dep.

GOM_TRA_1PNPDE20091230_201307_000000442085_00329_40964_1600.N1	DC map used
GOM_TRA_1PNPDE20091230_201514_000000482085_00329_40964_1601.N1	DC map used
GOM_TRA_1PNPDE20091230_201804_000000472085_00329_40964_1602.N1	DC map used
GOM_TRA_1PNPDE20091230_201938_000000452085_00329_40964_1603.N1	DC map used
GOM_TRA_1PNPDE20091230_202207_000000492085_00329_40964_1604.N1	DC map used
GOM_TRA_1PNPDE20091230_202437_000000432085_00329_40964_1605.N1	DC map used
GOM_TRA_1PNPDE20091230_202708_000000432085_00329_40964_1606.N1	DC map used
GOM_TRA_1PNPDE20091230_202942_000000552085_00329_40964_1607.N1	DC map used
GOM_TRA_1PNPDE20091230_203303_000000522085_00329_40964_1608.N1	DC map used
GOM_TRA_1PNPDE20091230_203441_000000502085_00329_40964_1609.N1	DC map used
GOM_TRA_1PNPDE20091230_203602_000000462085_00329_40964_1610.N1	DC map used
GOM_TRA_1PNPDE20091230_203840_000000402085_00329_40964_1611.N1	DC map used
GOM_TRA_1PNPDE20091230_204042_000000442085_00329_40964_1612.N1	DC map used
GOM_TRA_1PNPDE20091230_205721_000000352085_00329_40964_1613.N1	DC map used
GOM_TRA_1PNPDE20091230_210106_000000512085_00329_40964_1614.N1	DC map used
GOM_TRA_1PNPDE20091230_210420_000000652085_00329_40964_1615.N1	DC map used
GOM_TRA_1PNPDE20091230_210820_000000612085_00329_40964_1616.N1	DC map used
GOM_TRA_1PNPDE20091230_211159_000000612085_00329_40964_1617.N1	DC map used
GOM_TRA_1PNPDE20091230_211512_000000532085_00329_40964_1618.N1	DC map used
GOM_TRA_1PNPDE20091230_212215_000000362085_00329_40964_1619.N1	DC map used

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



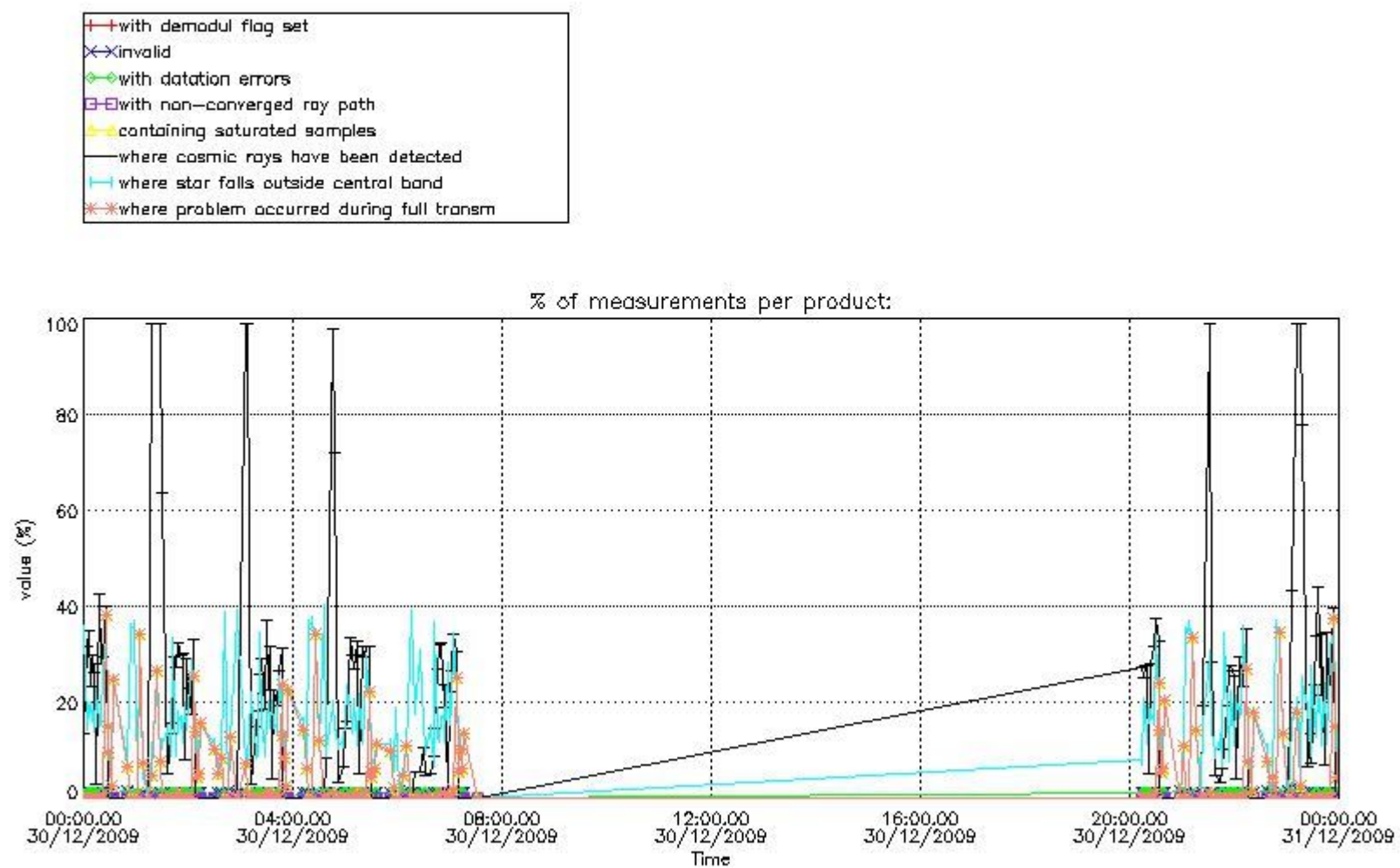
5. Demodulation flag and quality information monitoring

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.

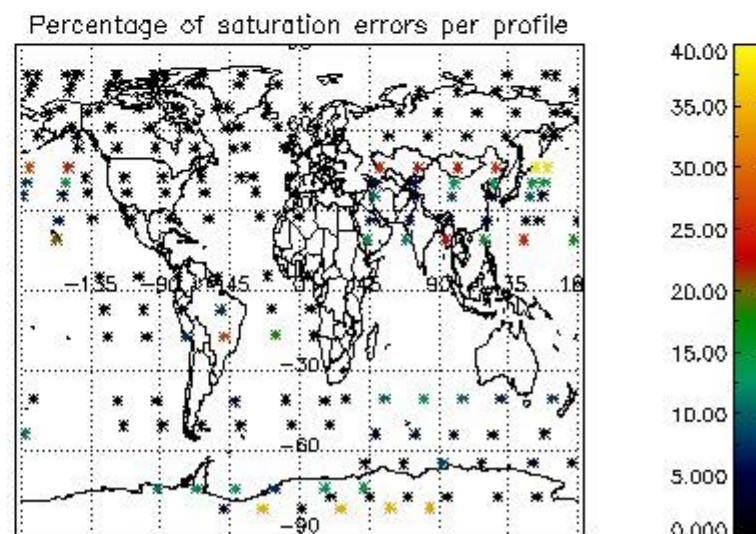
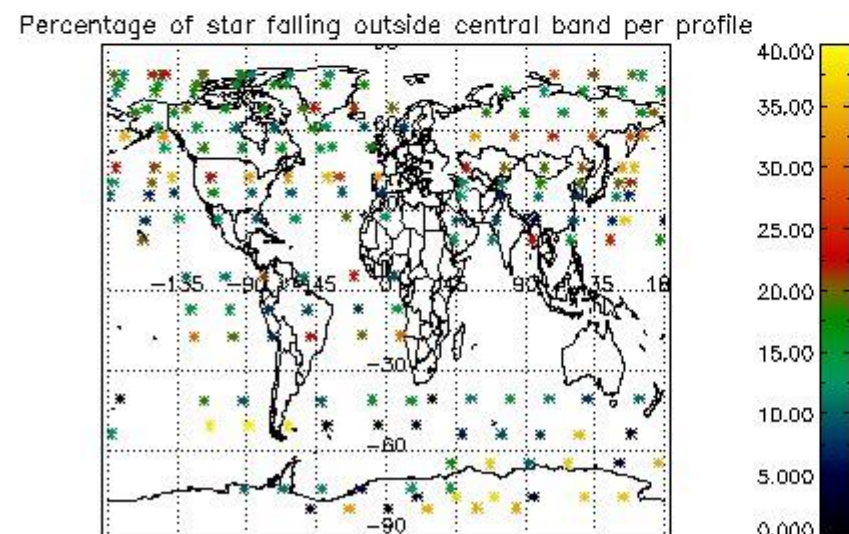
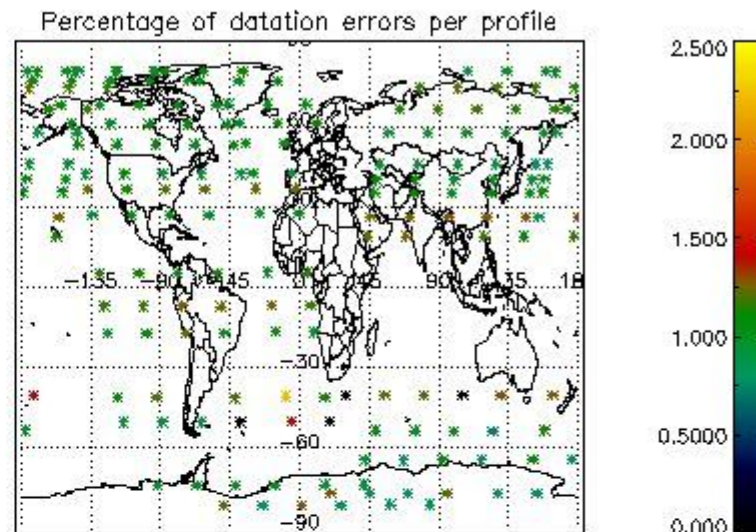
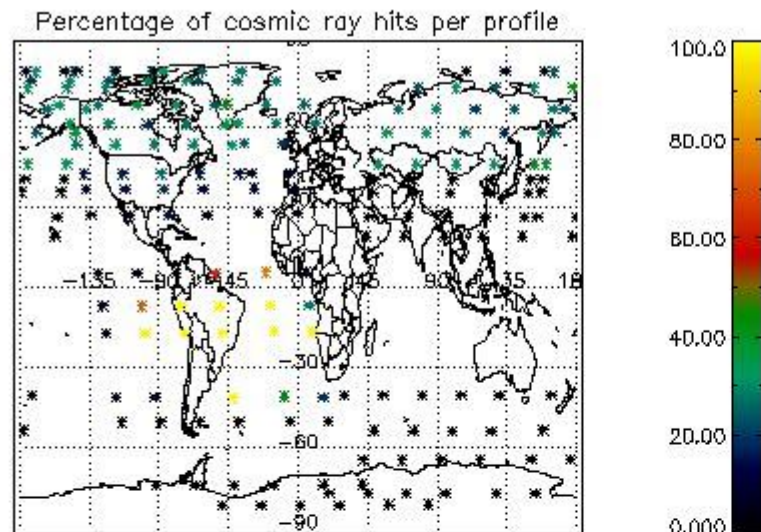
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	40.5128 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



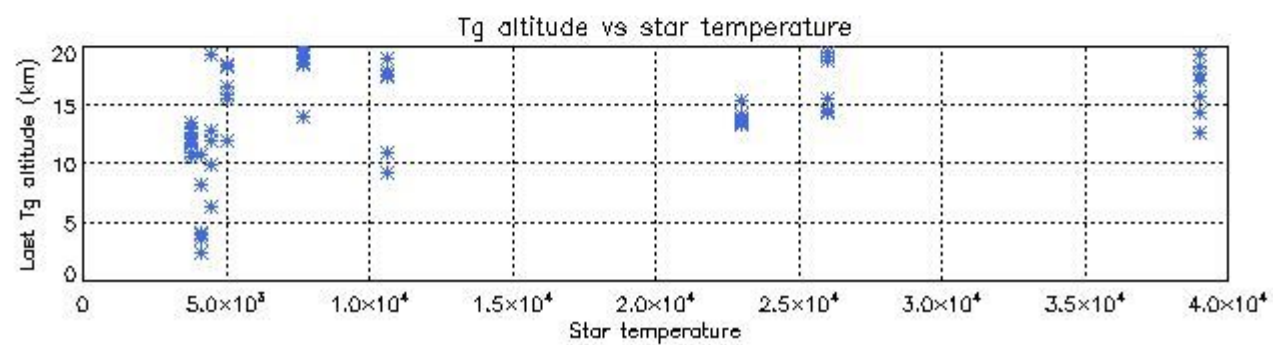
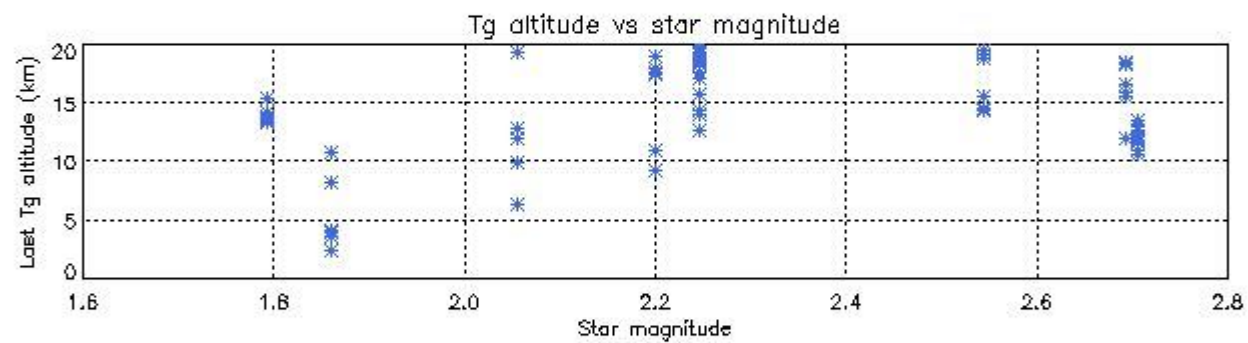
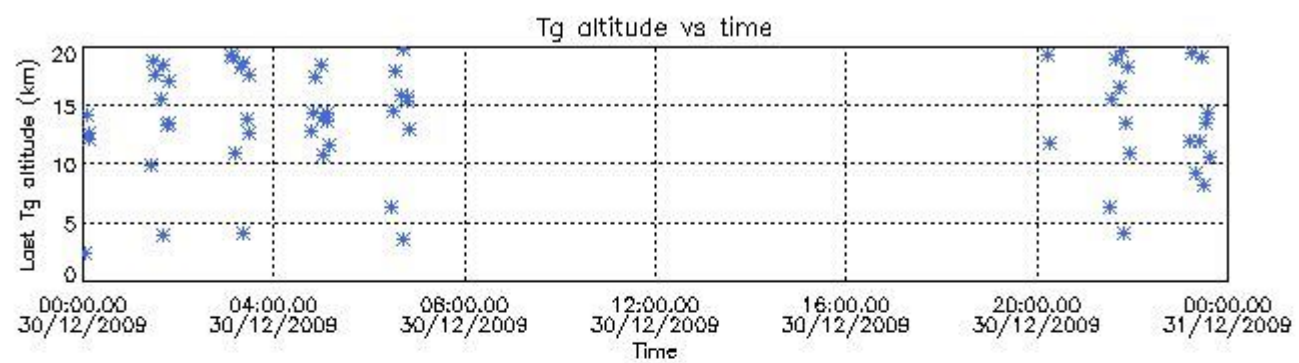
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.791	14.492	NaN
St. deviation:	4.5690	7.0773	NaN
Maximum:	19.816	29.200	NaN
Minimum:	2.4211	3.4524	NaN
Number of data:	60.000	82.000	NaN

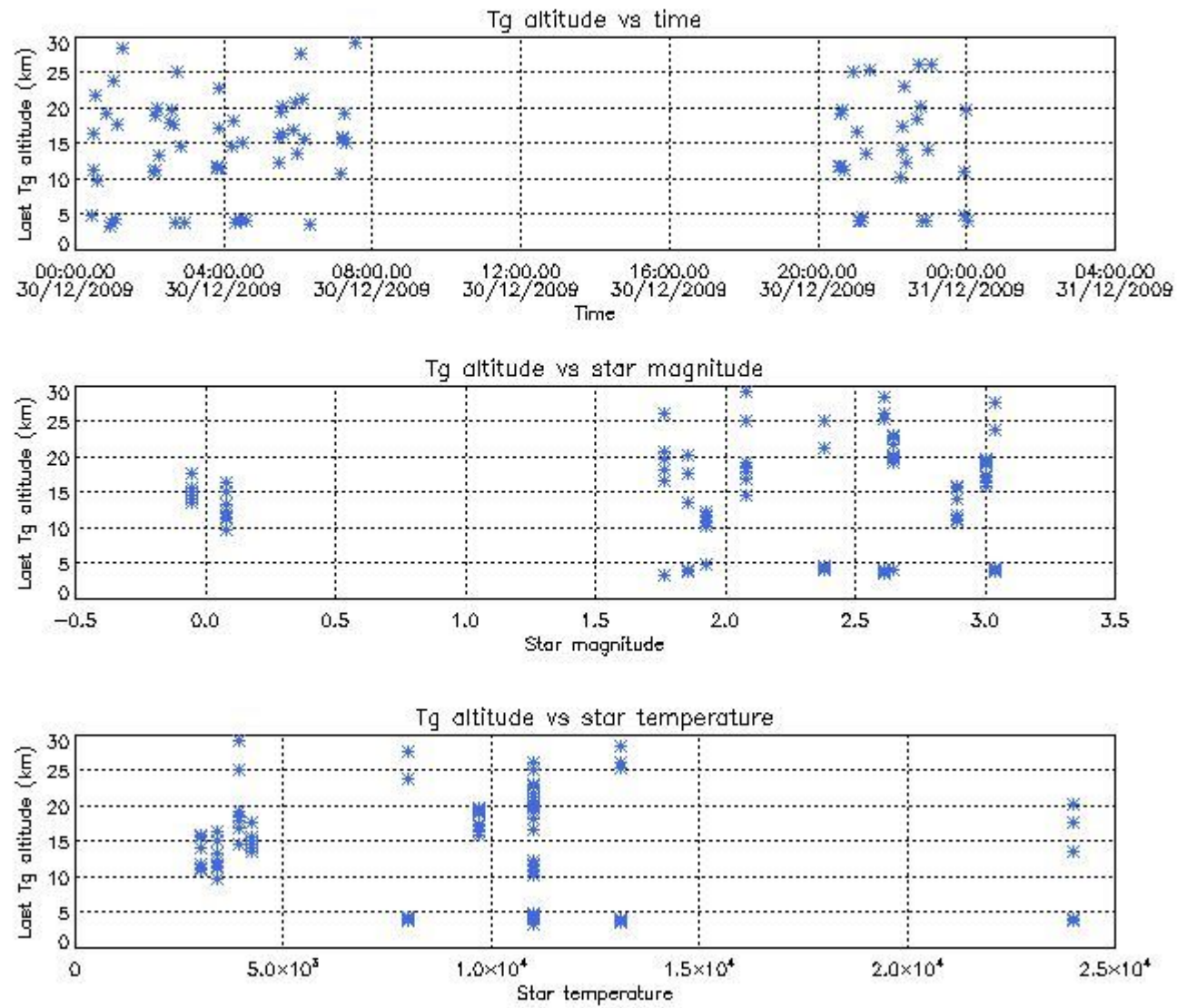
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

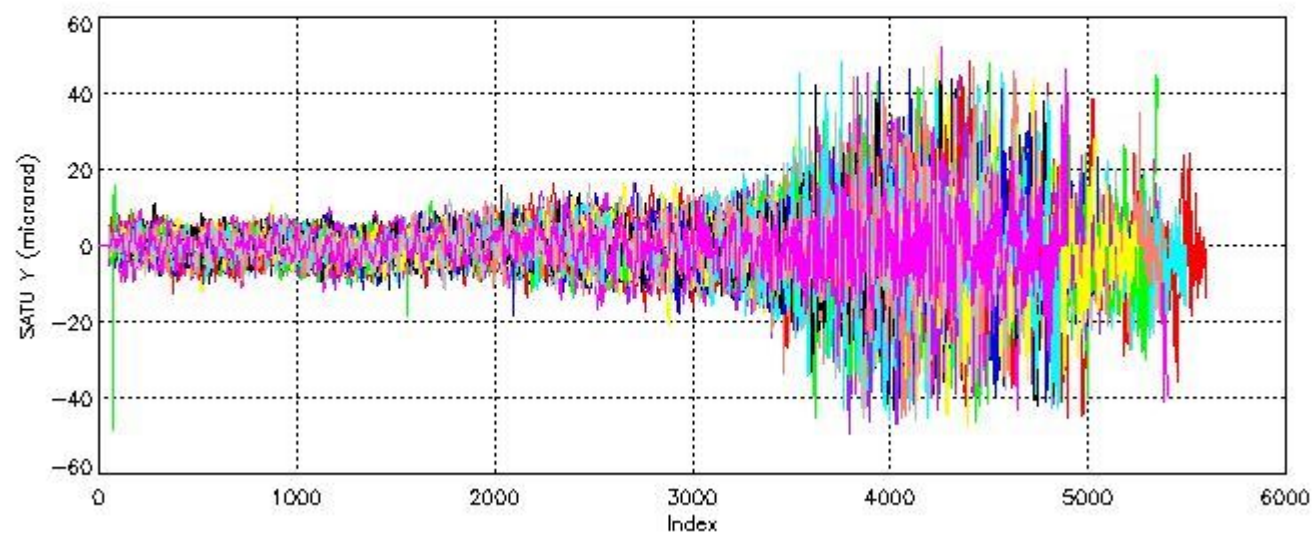
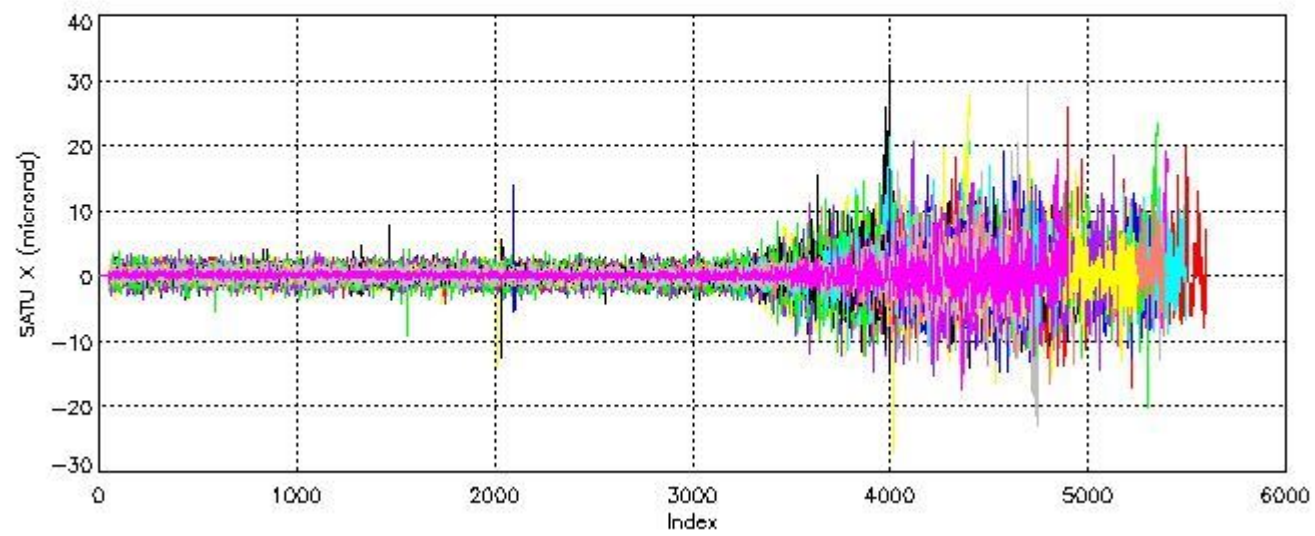


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main 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:	0.19741	0.042364	0.20207	-0.13694
St. deviation:	0.55927	2.5328	0.67179	2.7506
Maximum:	4.2000	15.700	5.5000	11.100
Minimum:	-5.5000	-48.600	-5.7000	-14.600

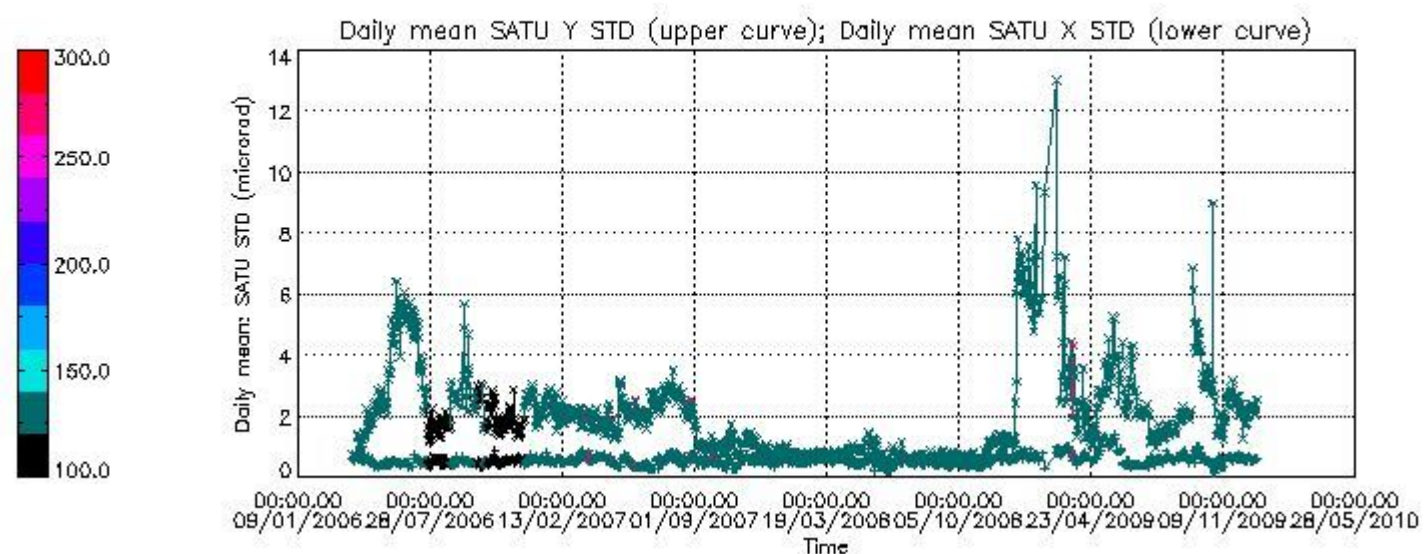
Number of data:	58600.	58600.	81000.	81000.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

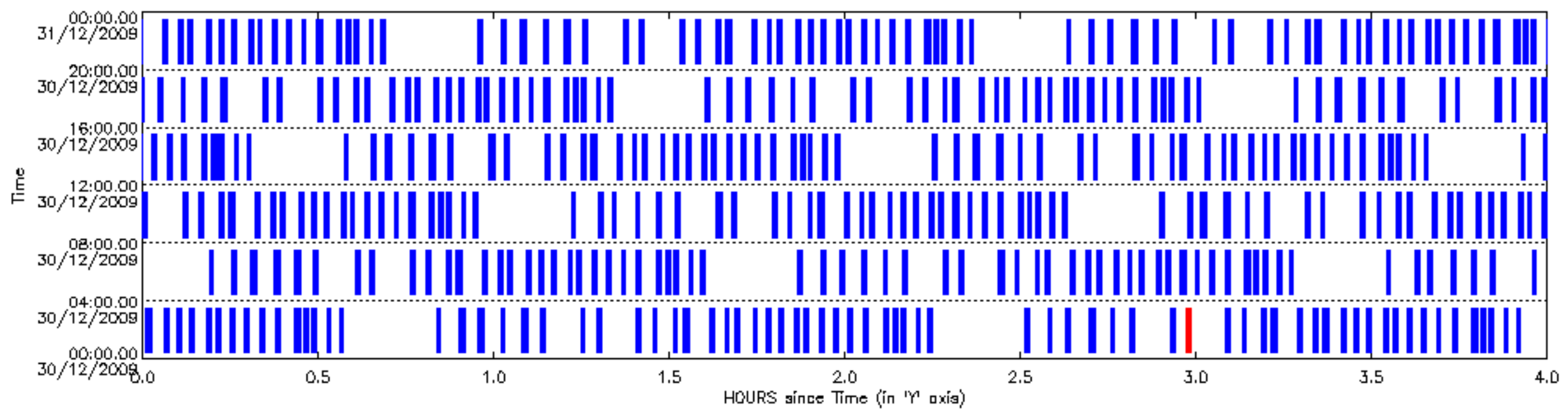
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

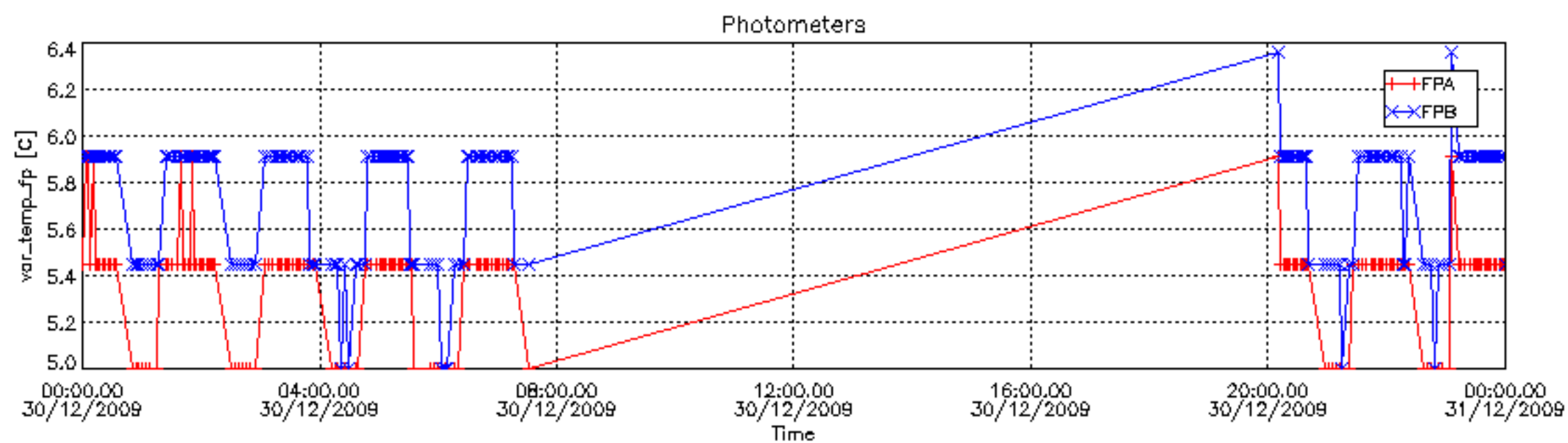
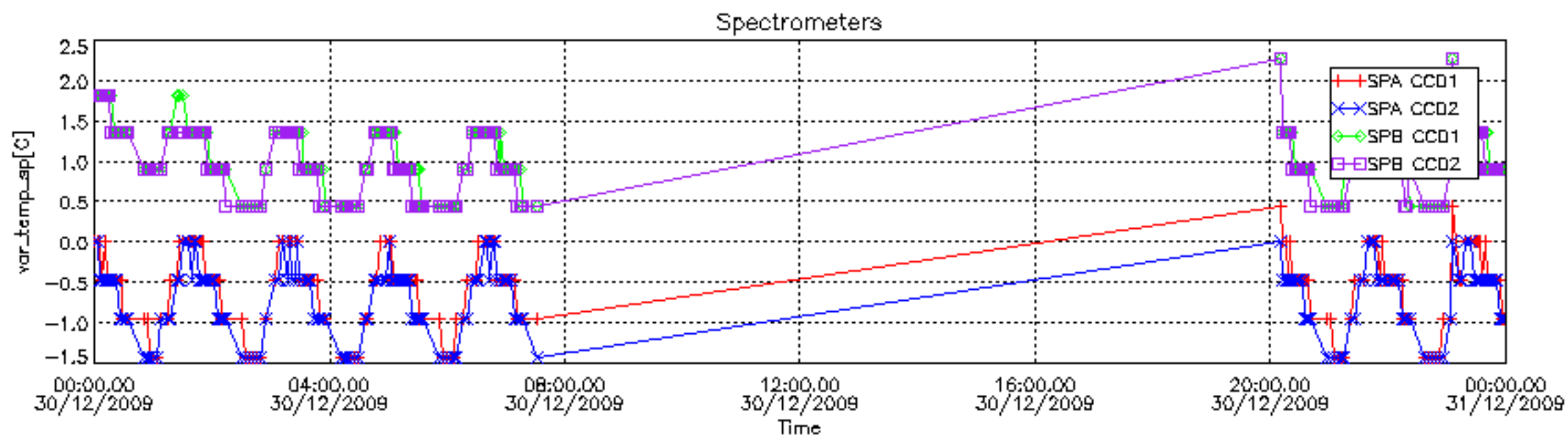


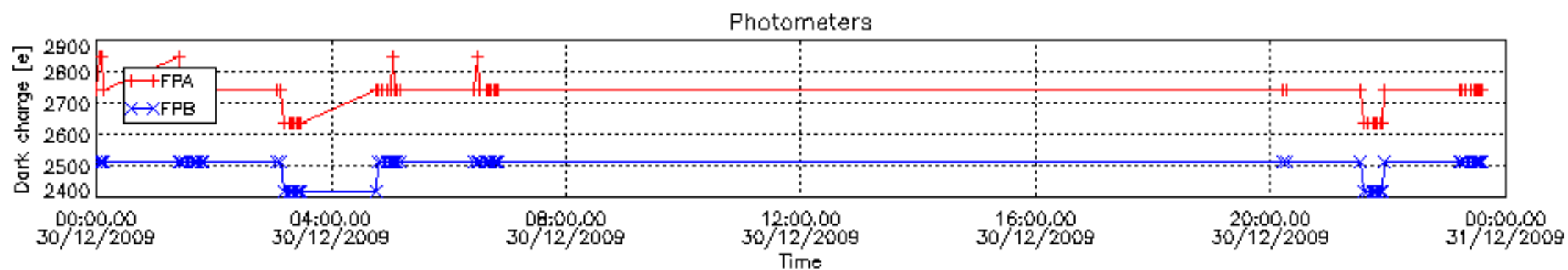
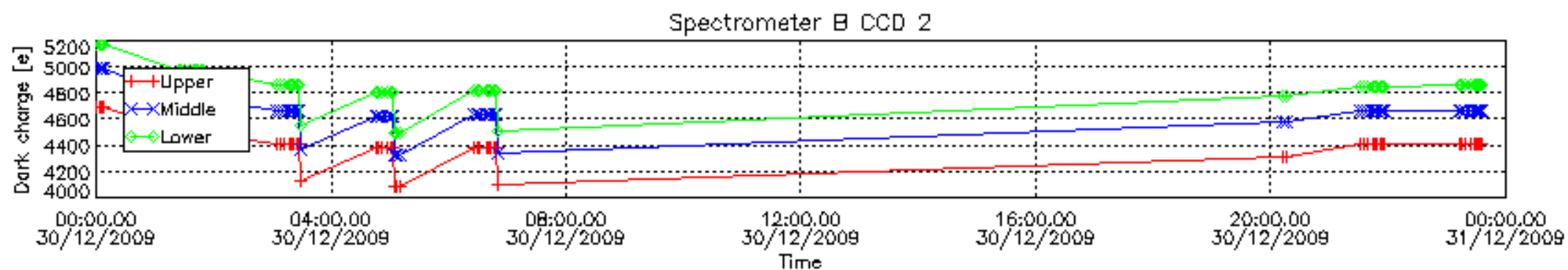
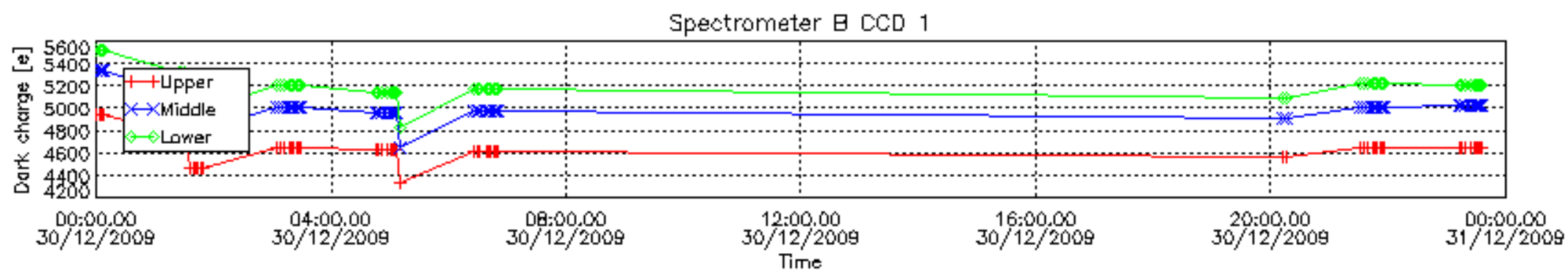
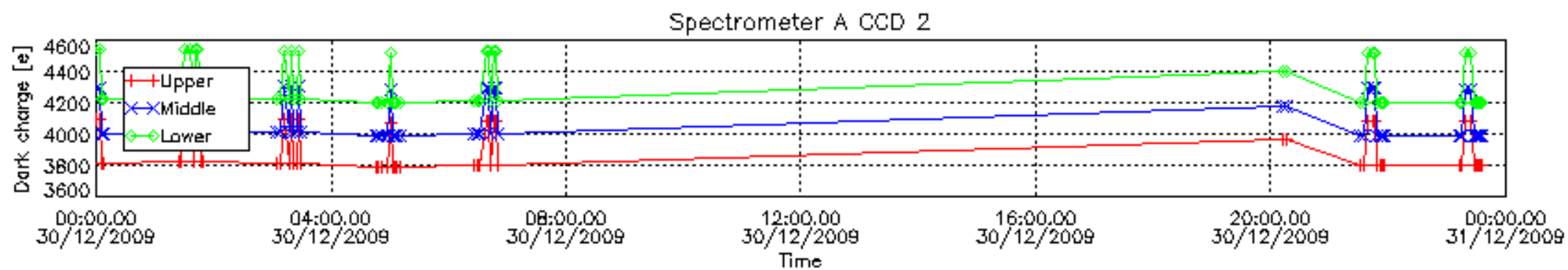
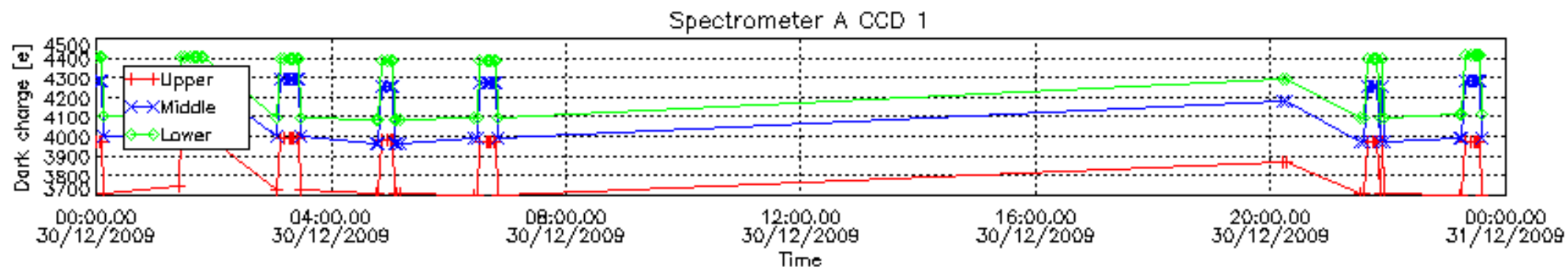
8. Auxiliary Data Files used for the production reported in section 2.4

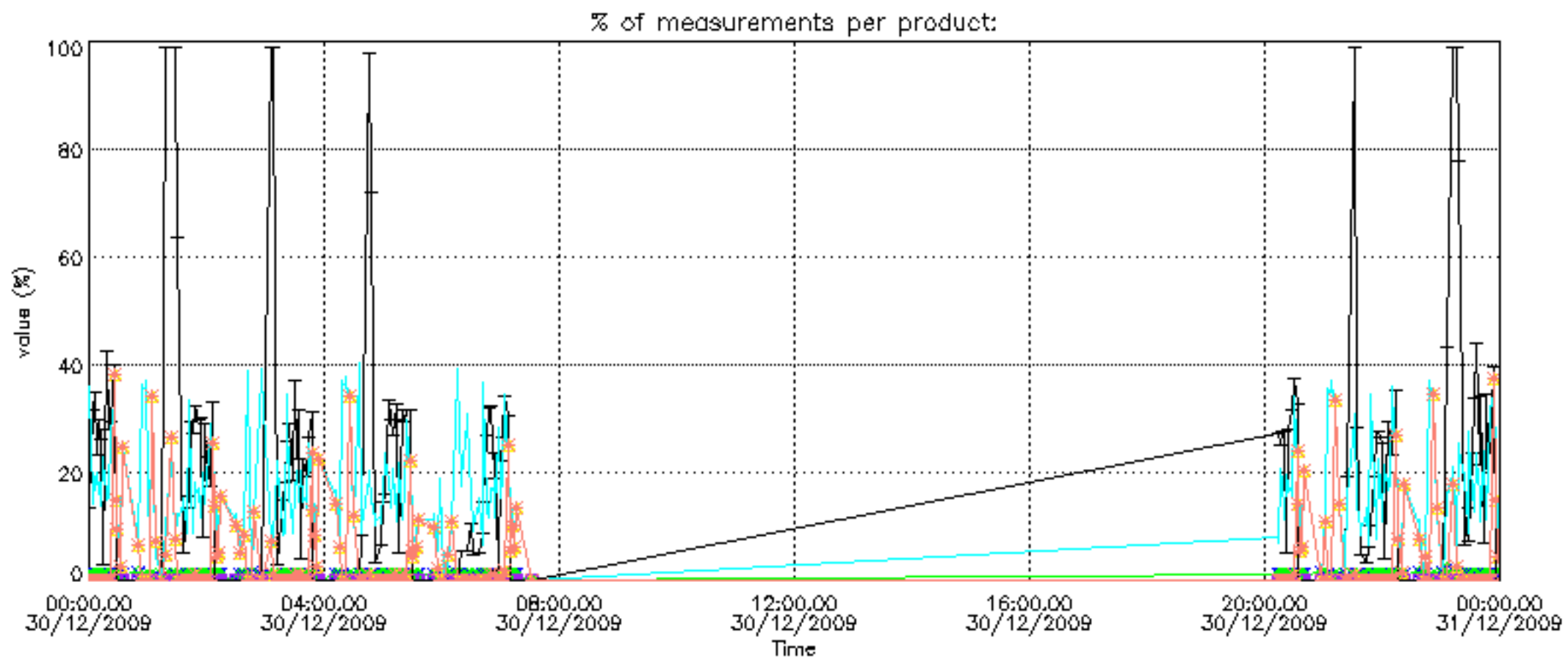
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	30-DEC-2009 00:00:29
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091229_111816_20091227_000000_20500101_000000	1	30-DEC-2009 00:00:29
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	30-DEC-2009 00:00:29
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	30-DEC-2009 00:00:29
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	30-DEC-2009 00:00:29
ECMWF_FILE	AUX_ECF_AXNECM20091229_062110_20091229_210000_20091230_090000	1	30-DEC-2009 00:00:29
ECMWF_FILE	AUX_ECF_AXNECM20091229_182111_20091230_030000_20091230_150000	71	30-DEC-2009 04:11:22
ECMWF_FILE	AUX_ECA_AXNECM20091230_060110_20091229_210000_20091230_090000	99	30-DEC-2009 05:51:58
ECMWF_FILE	AUX_ECF_AXNECM20091230_062110_20091230_150000_20091231_030000	128	30-DEC-2009 20:10:55
ECMWF_FILE	AUX_ECF_AXNECM20091230_062111_20091230_210000_20091231_090000	149	30-DEC-2009 21:24:52
OPTIONAL_ECMWF_FILE	MISSING	1	30-DEC-2009 00:00:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091229_233531_000057382085_00316_40951_9461.N1	1	30-DEC-2009 00:00:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091230_011109_000044632085_00317_40952_9462.N1	23	30-DEC-2009 01:17:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091230_023051_000054192085_00318_40953_9463.N1	45	30-DEC-2009 02:34:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091230_040629_000057382085_00319_40954_9464.N1	71	30-DEC-2009 04:11:22
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091228_233703_20091228_191826_20100107_204440	99	30-DEC-2009 05:51:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091230_200810_000041442085_00329_40964_9466.N1	128	30-DEC-2009 20:10:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091230_212233_000057382085_00329_40964_9467.N1	149	30-DEC-2009 21:24:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091230_230330_000057382085_00330_40965_9468.N1	177	30-DEC-2009 23:05:28

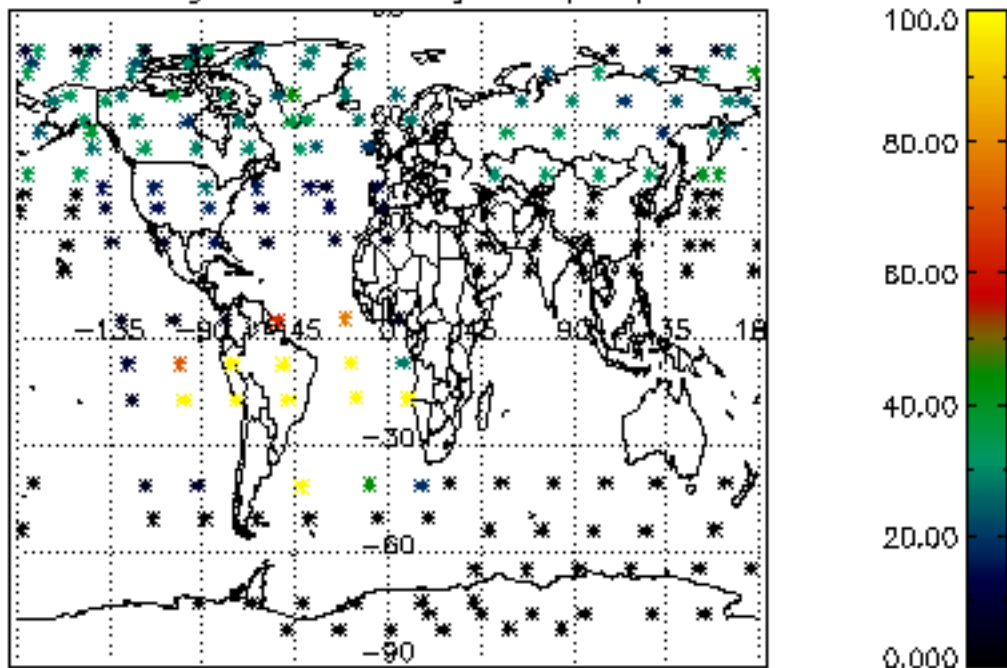




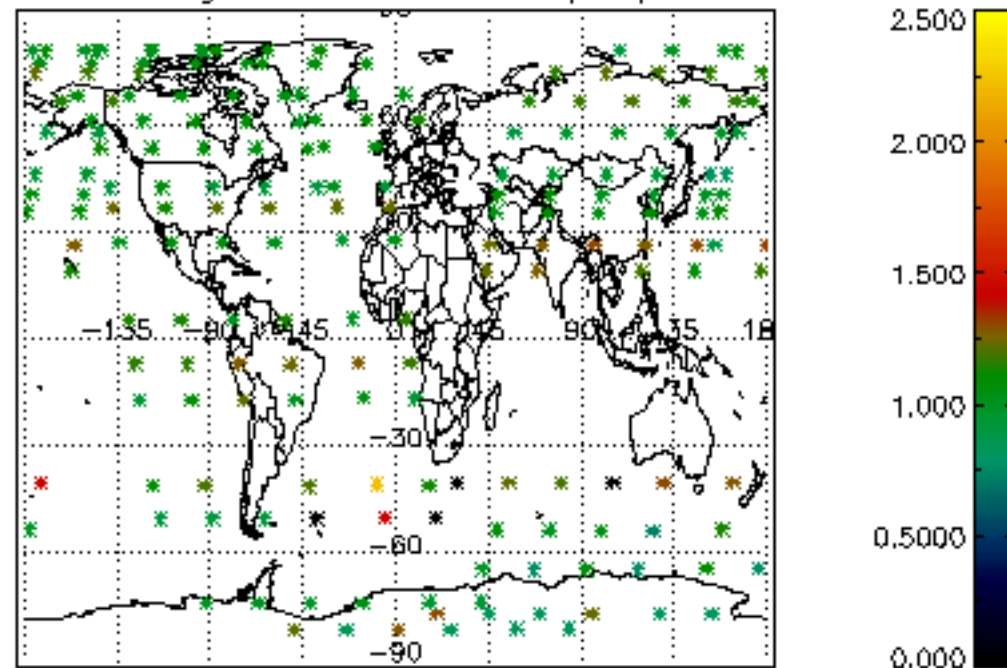




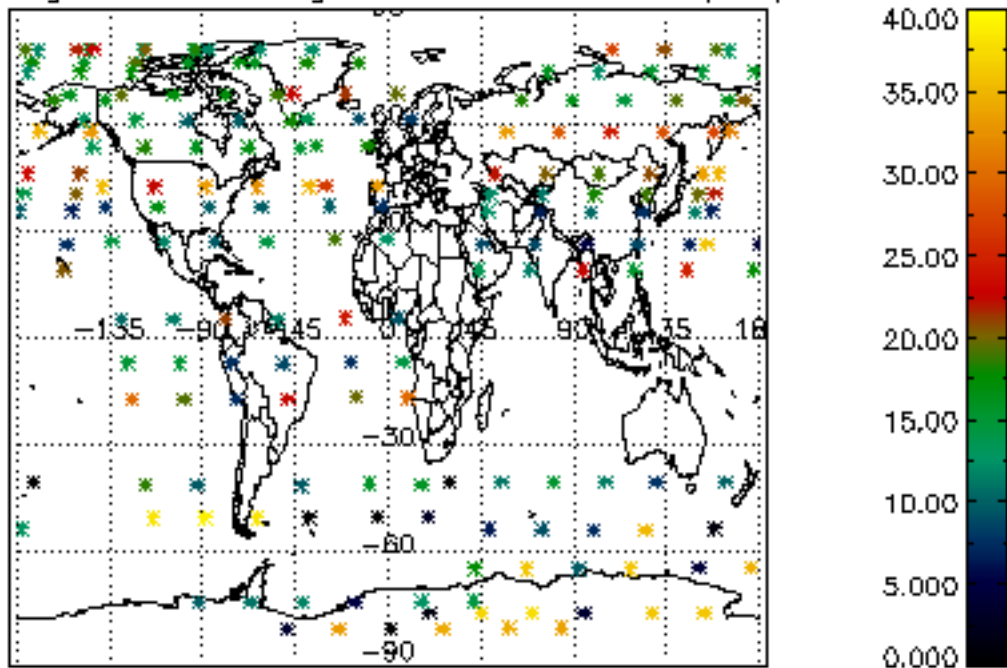
Percentage of cosmic ray hits per profile



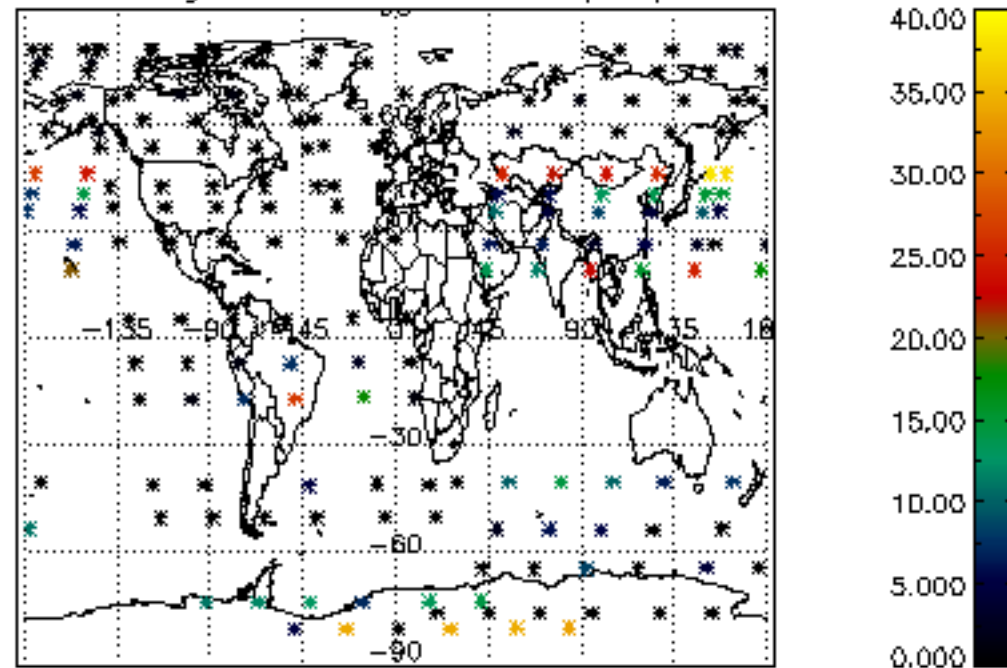
Percentage of datation errors per profile



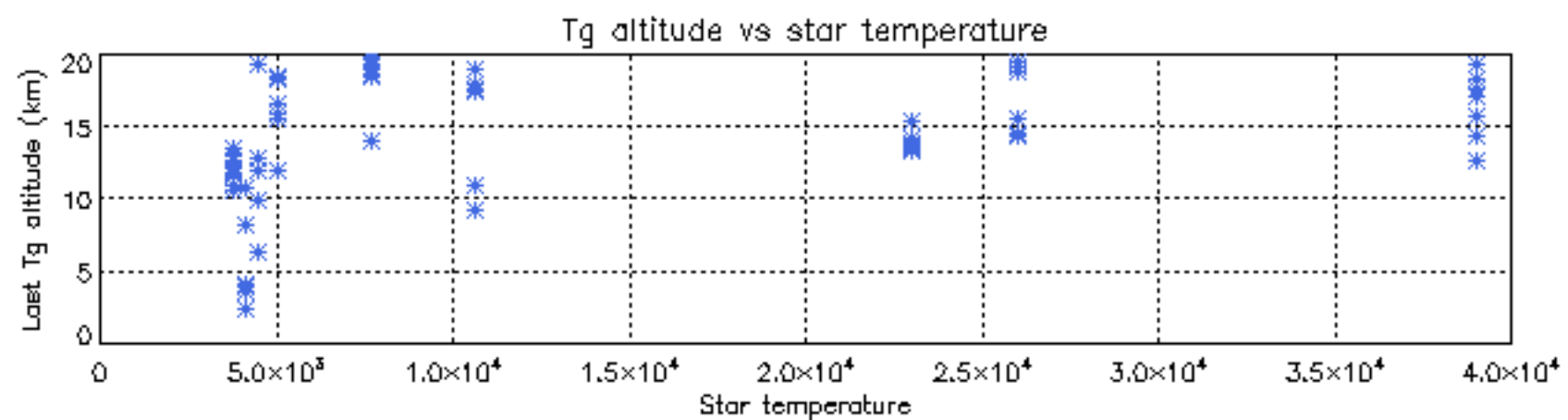
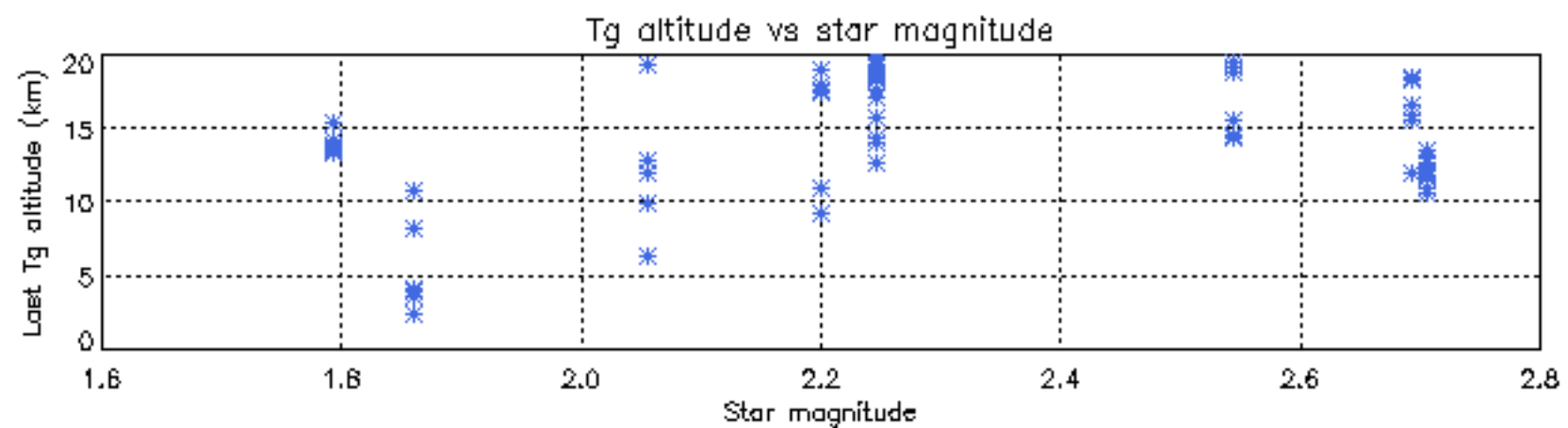
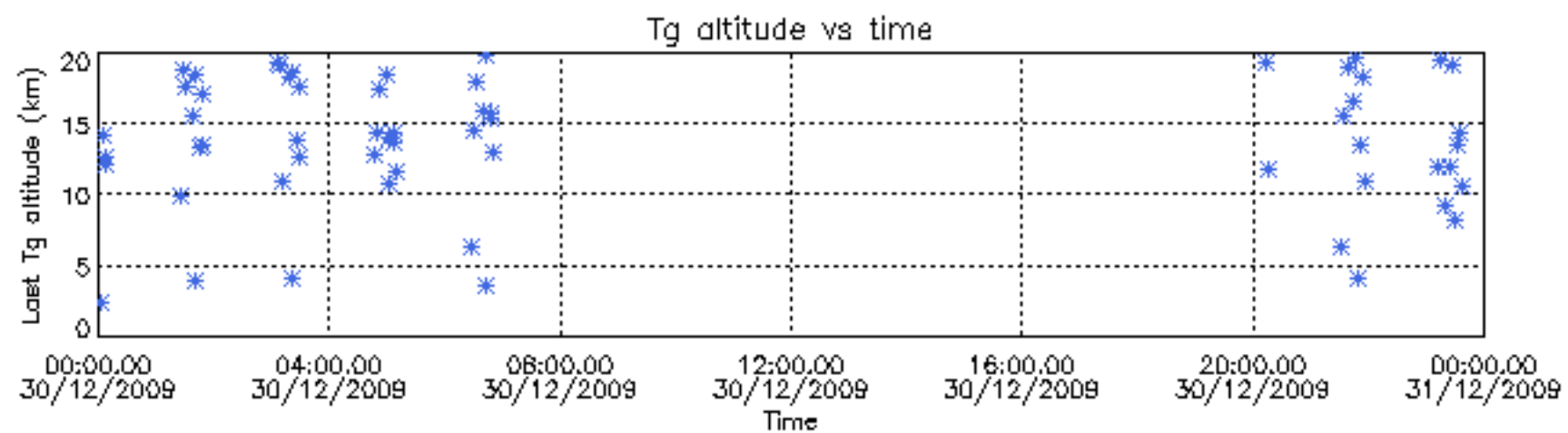
Percentage of star falling outside central band per profile



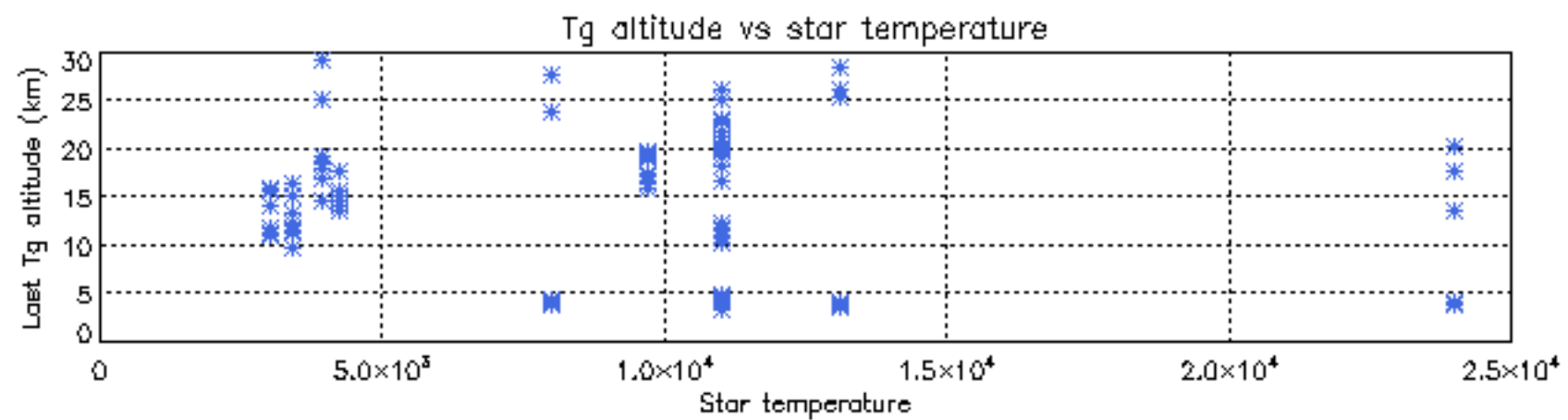
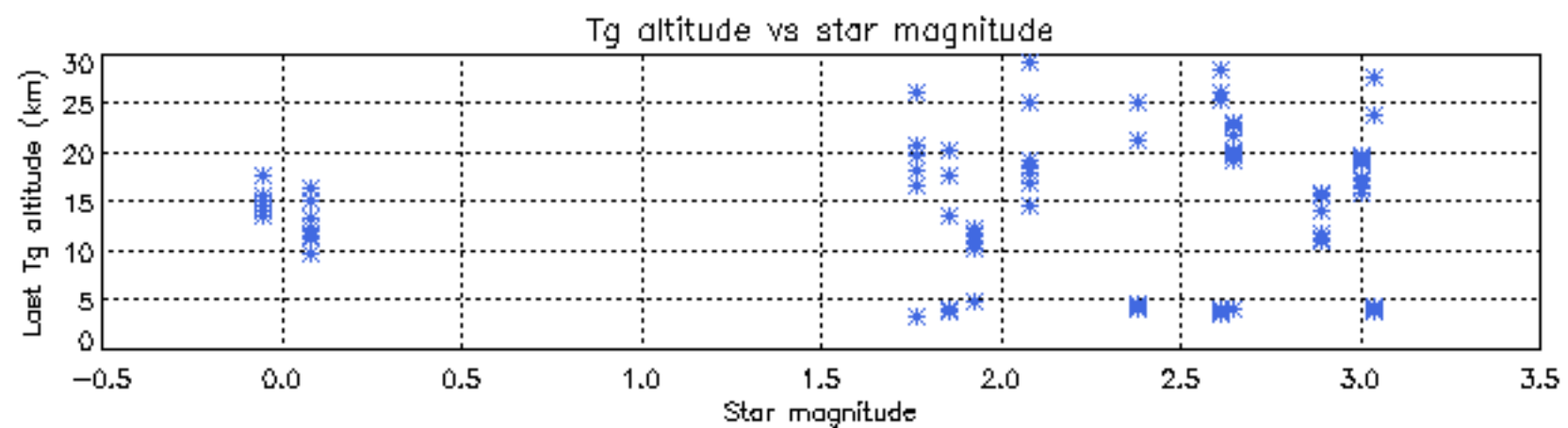
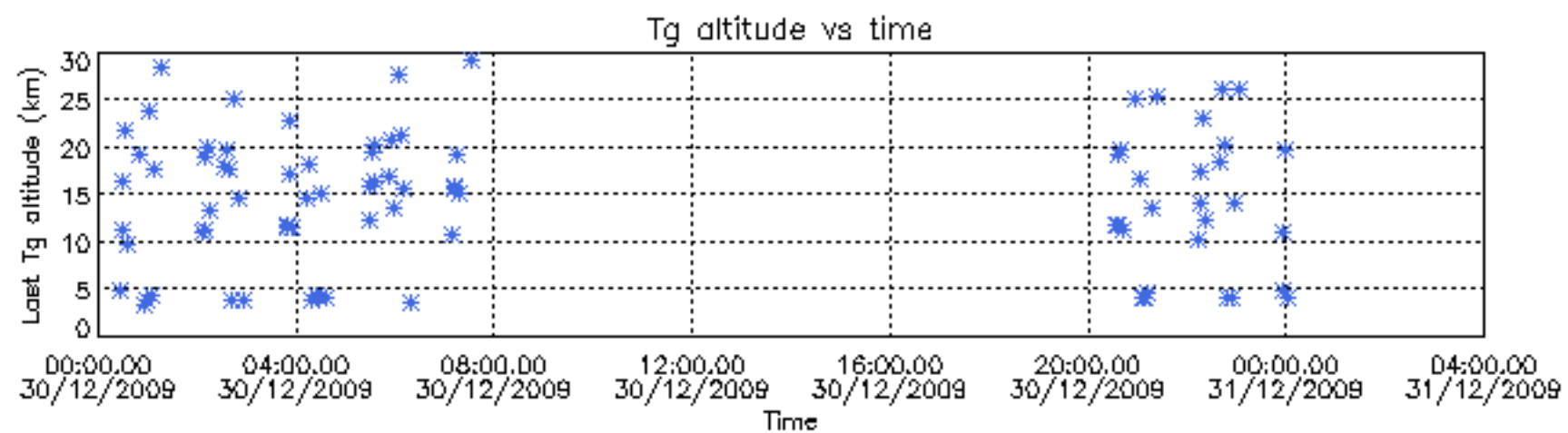
Percentage of saturation errors per profile

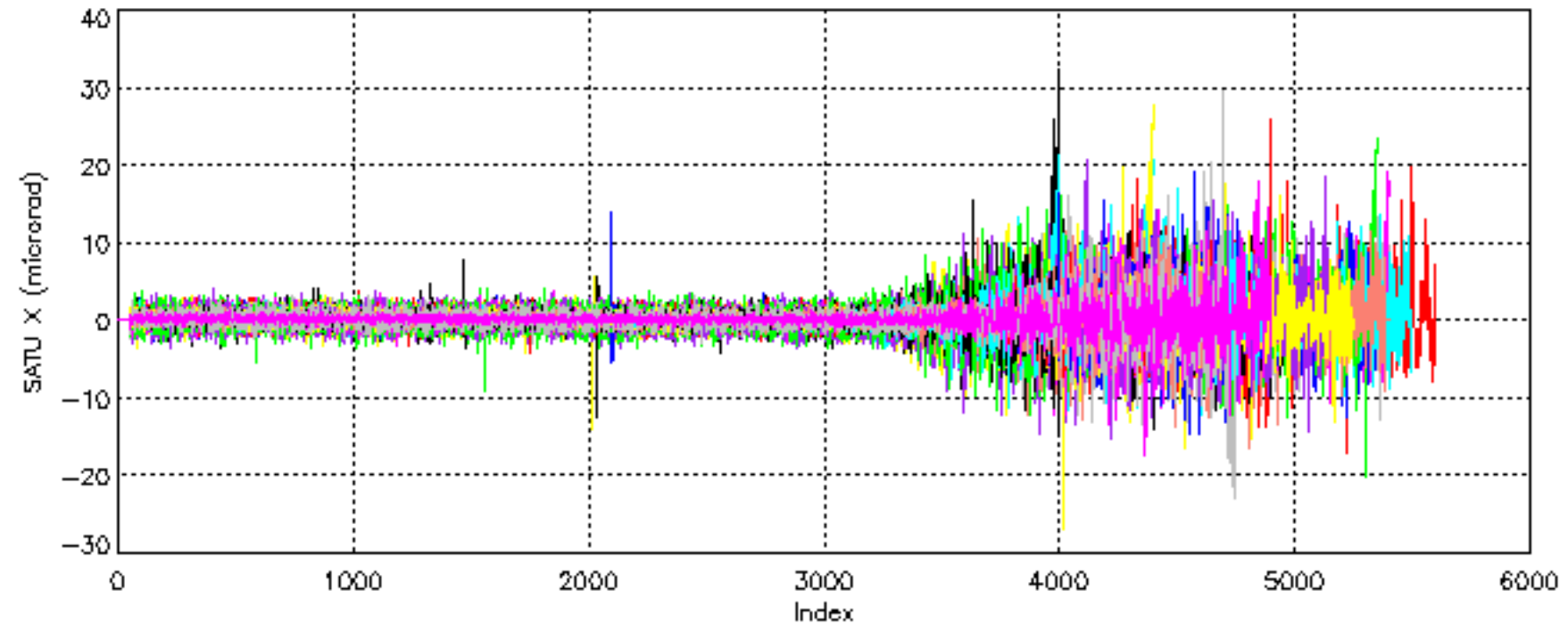


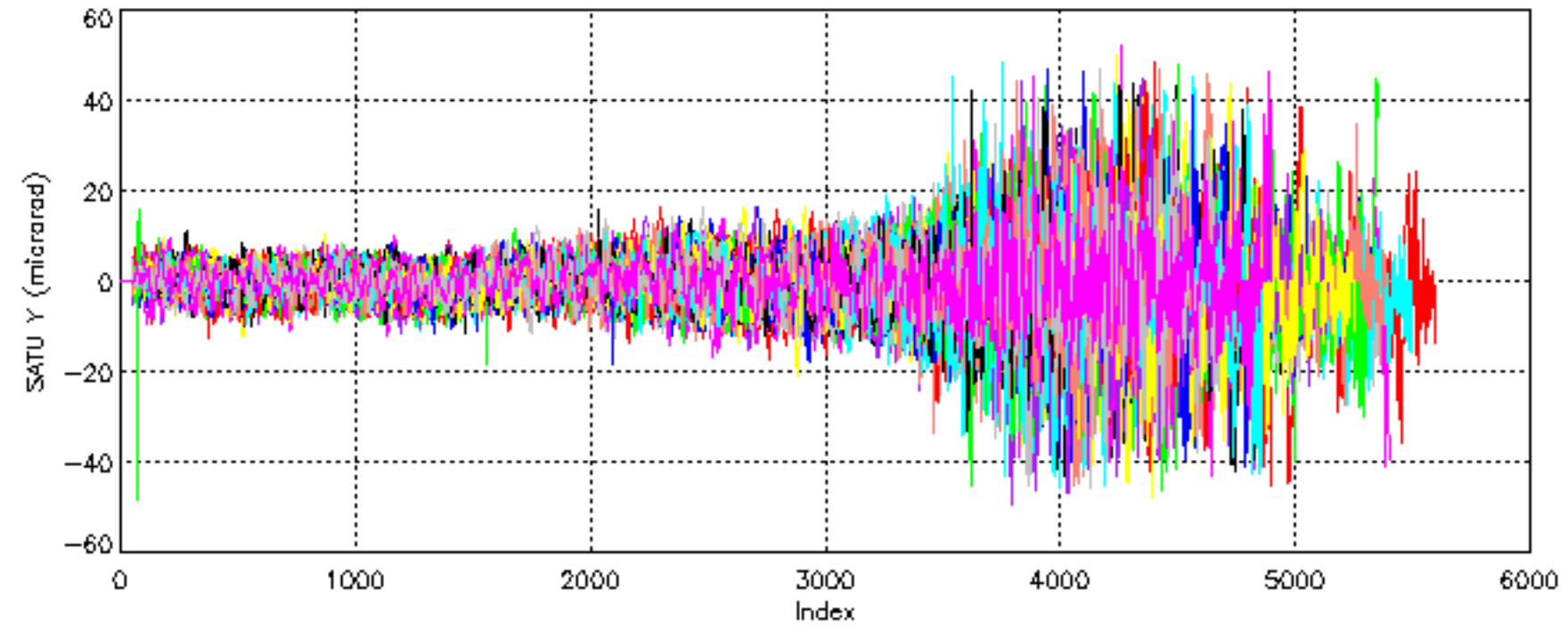
Tangent altitude at which the star is lost

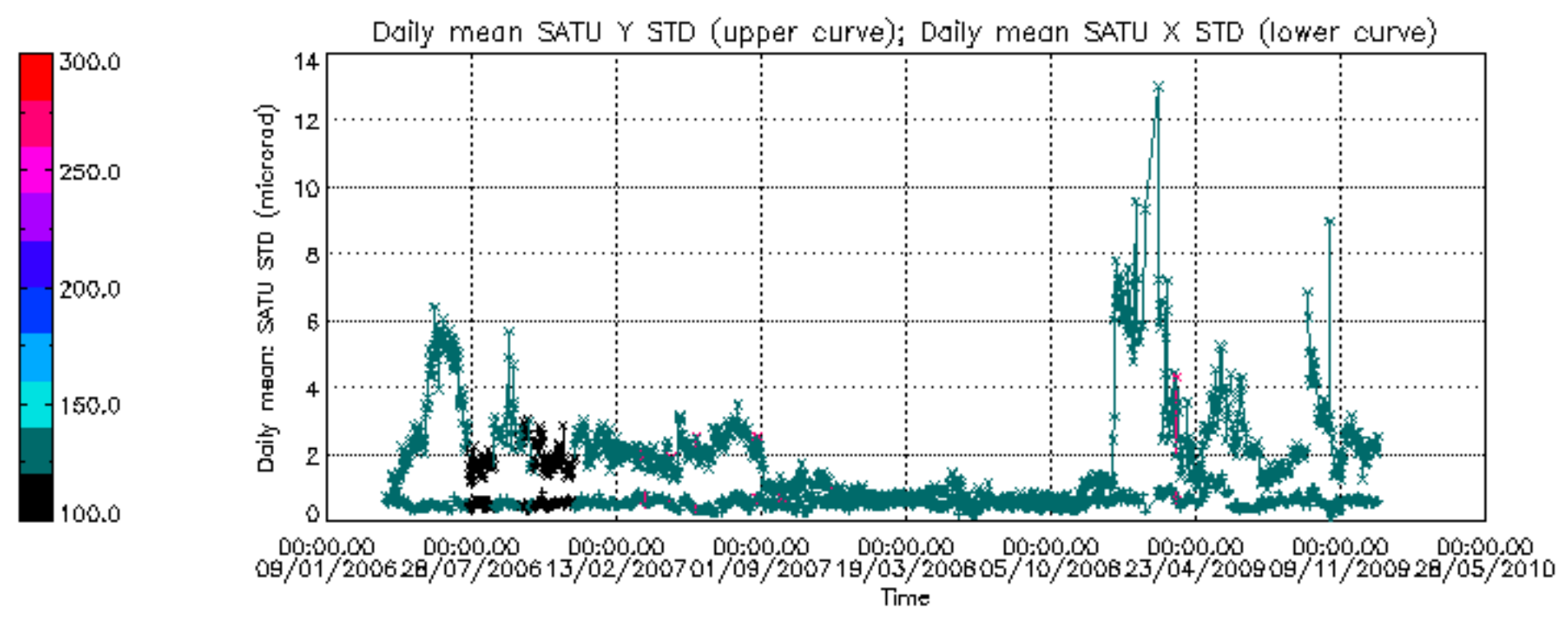


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20091201_013105_000044402084_00403_40537_9039.N1

1; -575.6; 01-DEC-2009 01:31:05; Dark ; 49.5; 100; 4Gam Crv ; 2.58; 13100;occ; 99; 0;40537
 2; -480.0; 01-DEC-2009 01:32:41; Dark ; 48.5; 171; 2Eps Crv ; 3.00; 4250;occ; 97; 0;40537
 3; 88.7; 01-DEC-2009 01:42:10; Dark ; 48.5; 113; Mu Vel ; 2.69; 5000;occ; 97; 0;40538
 4; 407.7; 01-DEC-2009 01:47:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40538
 5; 605.8; 01-DEC-2009 01:50:47; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;40538
 6; 711.5; 01-DEC-2009 01:52:32; Dark ; 57.0; 70; Zet Pup ; 2.25; 39000;occ; 114; 0;40538
 7; 919.9; 01-DEC-2009 01:56:01; Dark ; 62.0; 117; Pi Pup ; 2.71; 3800;occ; 124; 0;40538
 8; 1147.6; 01-DEC-2009 01:59:49; Dark ; 69.0; 23; 21Eps CMa ; 1.50; 26000;occ; 138; 0;40538
 9; 1535.7; 01-DEC-2009 02:06:17; Dark ; 55.0; 101; 11Alp Lep ; 2.58; 7000;occ; 110; 0;40538
 10; 1752.0; 01-DEC-2009 02:09:53; Dark ; 56.5; 7; 19Bet Ori ; 0.10; 14000;occ; 113; 0;40538
 11; 1933.1; 01-DEC-2009 02:12:54; Dark ; 62.5; 30; 46Eps Ori ; 1.69; 30000;occ; 125; 0;40538
 12; 2096.1; 01-DEC-2009 02:15:37; Dark ; 66.0; 27; 24Gam Ori ; 1.64; 26000;occ; 132; 0;40538
 13; 2231.9; 01-DEC-2009 02:17:53; Bright; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;40538
 14; 2328.4; 01-DEC-2009 02:19:29; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;40538
 15; 2470.7; 01-DEC-2009 02:21:52; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;40538
 16; 2616.0; 01-DEC-2009 02:24:17; Bright; 39.5; 149; 45Eps Per ; 2.89; 30000;occ; 79; 0;40538
 17; 2847.4; 01-DEC-2009 02:28:08; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;40538
 18; 2957.0; 01-DEC-2009 02:29:58; Bright; 51.0; 42; 34Bet Aur ; 1.90; 10200;occ; 102; 0;40538
 19; 3821.0; 01-DEC-2009 02:44:22; Bright; 44.0; 36; 50Alp UMa ; 1.80; 6300;occ; 88; 0;40538

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20091201_024439_000052052084_00404_40538_9040.N1

1; -2197.9; 01-DEC-2009 02:44:39; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 34;40538
 2; -2118.8; 01-DEC-2009 02:45:58; Bright; 47.0; 82; 48Bet UMa ; 2.37; 10600;occ; 94; 0;40538
 3; -2021.4; 01-DEC-2009 02:47:36; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;40538
 4; -1848.5; 01-DEC-2009 02:50:28; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;40538
 5; -1687.8; 01-DEC-2009 02:53:09; Bright; 37.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 75; 0;40538
 6; -1112.5; 01-DEC-2009 03:02:44; Bright; 55.5; 62; 94Bet Leo ; 2.14; 9700;occ; 111; 0;40538
 7; -915.0; 01-DEC-2009 03:06:02; Bright; 62.0; 121; 29Gam Vir ; 2.74; 7200;occ; 124; 0;40538
 8; -574.6; 01-DEC-2009 03:11:42; Dark ; 43.5; 100; 4Gam Crv ; 2.58; 13100;occ; 87; 0;40538
 9; -479.0; 01-DEC-2009 03:13:18; Dark ; 48.5; 171; 2Eps Crv ; 3.00; 4250;occ; 97; 0;40538
 10; 89.2; 01-DEC-2009 03:22:46; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;40539
 11; 408.5; 01-DEC-2009 03:28:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40539
 12; 607.0; 01-DEC-2009 03:31:24; Dark ; 59.5; 34; Gam2Vel ; 1.79; 23000;occ; 119; 0;40539
 13; 712.6; 01-DEC-2009 03:33:09; Dark ; 54.5; 70; Zet Pup ; 2.25; 39000;occ; 109; 0;40539
 14; 920.7; 01-DEC-2009 03:36:38; Dark ; 60.5; 117; Pi Pup ; 2.71; 3800;occ; 121; 0;40539
 15; 1148.2; 01-DEC-2009 03:40:25; Dark ; 68.0; 23; 21Eps CMa ; 1.50; 26000;occ; 136; 0;40539
 16; 1536.0; 01-DEC-2009 03:46:53; Dark ; 56.0; 101; 11Alp Lep ; 2.58; 7000;occ; 112; 0;40539
 17; 1752.3; 01-DEC-2009 03:50:29; Dark ; 56.5; 7; 19Bet Ori ; 0.10; 14000;occ; 113; 0;40539
 18; 1932.8; 01-DEC-2009 03:53:30; Dark ; 65.5; 30; 46Eps Ori ; 1.69; 30000;occ; 131; 0;40539
 19; 2095.7; 01-DEC-2009 03:56:13; Dark ; 61.0; 27; 24Gam Ori ; 1.64; 26000;occ; 122; 0;40539
 20; 2231.6; 01-DEC-2009 03:58:28; Bright; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;40539
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23; 7047.7; 09-DEC-2009 14:30:35; Dark ; 57.5; 117; Pi Pup ; 2.71; 3800;occ; 115; 0;40659
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6; 2520.7; 10-DEC-2009 11:02:55; Bright; 43.5; 114; 3Iot Aur ; 2.69; 4600;occ; 87; 0;40672
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8; 3767.8; 10-DEC-2009 11:23:42; Bright; 42.0; 36; 50Alp UMa ; 1.80; 6300;occ; 84; 0;40672
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 11; 4140.7; 10-DEC-2009 11:29:55; Bright; 56.0; 39; 85Eta UMA ; 1.85; 24000;occ; 112; 0;40672
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 13; 4707.3; 10-DEC-2009 11:39:22; Bright; 49.5; 111; 8Eta Boo ; 2.68; 6000;occ; 99; 0;40672
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 15; 5274.4; 10-DEC-2009 11:48:49; Dark ; 50.5; 15; 67Alp Vir ; 0.98; 28000;occ; 101; 0;40672
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 23; 7056.3; 10-DEC-2009 12:18:31; Dark ; 55.0; 117; Pi Pup ; 2.71; 3800;occ; 110; 0;40672
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 7; 2520.3; 10-DEC-2009 12:43:31; Bright; 41.0; 114; 3Iot Aur ; 2.69; 4600;occ; 82; 0;40673
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 11; 3998.0; 10-DEC-2009 13:08:08; Bright; 41.0; 32; 77Eps UMA ; 1.76; 11000;occ; 82; 0;40673
 12; 4140.6; 10-DEC-2009 13:10:31; Bright; 37.0; 39; 85Eta UMA ; 1.85; 24000;occ; 74; 0;40673
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 19; 5686.7; 10-DEC-2009 13:36:17; Dark ; 53.0; 171; 2Eps Crv ; 3.00; 4250;occ; 106; 0;40673
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13; 4140.4; 10-DEC-2009 16:31:43; Bright; 48.0; 39; 85Eta UMa ; 1.85; 24000;occ; 96; 0;40675
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13; 3997.4; 10-DEC-2009 18:09:56; Bright; 46.5; 32; 77Eps UMa ; 1.76; 11000;occ; 93; 0;40676
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21; 5690.1; 10-DEC-2009 18:38:08; Dark ; 49.5; 171; 2Eps Crv ; 3.00; 4250;occ; 99; 0;40676
22; 6239.5; 10-DEC-2009 18:47:18; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;40676
23; 6557.4; 10-DEC-2009 18:52:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40676
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 3; 1271.9; 10-DEC-2009 19:05:06; Dark ; 66.0; 37; 25Del CMA ; 1.83; 5900;occ; 132; 0;40677
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5; -1325.6; 11-DEC-2009 06:06:00; Bright; 37.0; 111; 8Eta Boo ; 2.68; 6000;occ; 74; 0;40683
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7; -754.7; 11-DEC-2009 06:15:31; Dark ; 46.5; 15; 67Alp Vir ; 0.98; 28000;occ; 93; 0;40683
8; -546.4; 11-DEC-2009 06:18:59; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;40683
9; -434.3; 11-DEC-2009 06:20:51; Dark ; 55.5; 100; 4Gam Crv ; 2.58; 13100;occ; 111; 0;40683
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11; -99.8; 11-DEC-2009 06:26:26; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;40683
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 8; 3762.5; 11-DEC-2009 07:30:48; Bright; 48.0; 36; 50Alp UMa ; 1.80; 6300;occ; 96; 0;40684
 9; 3995.8; 11-DEC-2009 07:34:42; Bright; 60.0; 32; 77Eps UMa ; 1.76; 11000;occ; 120; 0;40684
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 13; 4927.7; 11-DEC-2009 07:50:13; Bright; 67.0; 138; 47Eps Vir ; 2.83; 4700;occ; 134; 0;40684
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 23; 6763.3; 11-DEC-2009 08:20:49; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40684
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 25; 7064.0; 11-DEC-2009 08:25:50; Dark ; 55.0; 117; Pi Pup ; 2.71; 3800;occ; 110; 0;40684
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 12; 4710.8; 11-DEC-2009 09:27:13; Bright; 57.0; 111; 8Eta Boo ; 2.68; 6000;occ; 114; 0;40685
 13; 4928.1; 11-DEC-2009 09:30:50; Bright; 67.0; 138; 47Eps Vir ; 2.83; 4700;occ; 134; 0;40685
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 27; 7563.8; 11-DEC-2009 10:14:46; Dark ; 34.5; 47; 2Bet CMa ; 1.98; 28000;occ; 69; 0;40685

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6; 2355.8; 11-DEC-2009 10:28:33; Bright; 46.0; 176; 23Zet Tau ; 3.02; 22000;occ; 92; 0;40686
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7; 2476.9; 11-DEC-2009 12:11:10; Bright; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;40687
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28; 7270.8; 11-DEC-2009 13:31:04; Dark ; 53.0; 23; 21Eps CMa ; 1.50; 26000;occ; 106; 0;40687
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4; 2039.8; 11-DEC-2009 13:44:29; Dark ; 48.5; 27; 24Gam Ori ; 1.64; 26000;occ; 97; 0;40688
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 19; 5703.8; 11-DEC-2009 14:45:33; Dark ; 58.5; 171; 2Eps Crv ; 3.00; 4250;occ; 117; 0;40688
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 27; 7066.6; 11-DEC-2009 15:08:16; Dark ; 56.5; 117; Pi Pup ; 2.71; 3800;occ; 113; 0;40688
 28; 7271.4; 11-DEC-2009 15:11:41; Dark ; 57.5; 23; 21Eps CMA ; 1.50; 26000;occ; 115; 0;40688

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1; 1528.3; 11-DEC-2009 15:16:34; Dark ; 41.0; 47; 2Bet CMA ; 1.98; 28000;occ; 82; 0;40689
 2; 1748.2; 11-DEC-2009 15:20:14; Dark ; 51.5; 7; 19Bet Ori ; 0.10; 14000;occ; 103; 0;40689
 3; 1893.6; 11-DEC-2009 15:22:39; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;40689
 4; 2039.6; 11-DEC-2009 15:25:05; Dark ; 49.0; 27; 24Gam Ori ; 1.64; 26000;occ; 98; 0;40689
 5; 2196.8; 11-DEC-2009 15:27:42; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;40689
 6; 2354.6; 11-DEC-2009 15:30:20; Bright; 46.5; 176; 23Zet Tau ; 3.02; 22000;occ; 93; 0;40689
 7; 2475.9; 11-DEC-2009 15:32:21; Bright; 44.5; 28; 12Bet Tau ; 1.65; 15200;occ; 89; 0;40689
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 9; 2765.9; 11-DEC-2009 15:37:11; Bright; 43.5; 6; 13Alp Aur ; 0.08; 3400;occ; 87; 0;40689
 10; 3760.3; 11-DEC-2009 15:53:46; Bright; 47.0; 36; 50Alp UMa ; 1.80; 6300;occ; 94; 0;40689
 11; 3995.0; 11-DEC-2009 15:57:40; Bright; 46.5; 32; 77Eps UMa ; 1.76; 11000;occ; 93; 0;40689
 12; 4140.4; 11-DEC-2009 16:00:06; Bright; 56.0; 39; 85Eta UMa ; 1.85; 24000;occ; 112; 0;40689
 13; 4332.3; 11-DEC-2009 16:03:18; Bright; 53.0; 180; 27Gam Boo ; 3.04; 8000;occ; 106; 0;40689
 14; 4712.0; 11-DEC-2009 16:09:37; Bright; 39.5; 111; 8Eta Boo ; 2.68; 6000;occ; 79; 0;40689
 15; 4930.8; 11-DEC-2009 16:13:16; Bright; 47.0; 138; 47Eps Vir ; 2.83; 4700;occ; 94; 0;40689
 16; 5231.2; 11-DEC-2009 16:18:17; Dark ; 56.0; 121; 29Gam Vir ; 2.74; 7200;occ; 112; 0;40689
 17; 5493.6; 11-DEC-2009 16:22:39; Dark ; 46.0; 169; 46Gam Hya ; 2.99; 4700;occ; 92; 0;40689
 18; 5608.8; 11-DEC-2009 16:24:34; Dark ; 54.0; 100; 4Gam Crv ; 2.58; 13100;occ; 108; 0;40689
 19; 5705.1; 11-DEC-2009 16:26:10; Dark ; 52.5; 171; 2Eps Crv ; 3.00; 4250;occ; 105; 0;40689
 20; 5939.6; 11-DEC-2009 16:30:05; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40689
 21; 6033.1; 11-DEC-2009 16:31:38; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;40689
 22; 6250.9; 11-DEC-2009 16:35:16; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40689
 23; 6494.1; 11-DEC-2009 16:39:19; Dark ; 45.0; 71; Iot Car ; 2.25; 7700;occ; 90; 0;40689
 24; 6567.6; 11-DEC-2009 16:40:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40689
 25; 6767.4; 11-DEC-2009 16:43:53; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40689
 26; 6915.2; 11-DEC-2009 16:46:21; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;40689
 27; 7067.3; 11-DEC-2009 16:48:53; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;40689
 28; 7271.9; 11-DEC-2009 16:52:17; Dark ; 55.5; 23; 21Eps CMA ; 1.50; 26000;occ; 111; 0;40689

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1; 1255.9; 11-DEC-2009 16:52:37; Dark ; 56.0; 23; 21Eps CMA ; 1.50; 26000;occ; 112; 40;40690
 2; 1528.4; 11-DEC-2009 16:57:10; Dark ; 46.0; 47; 2Bet CMA ; 1.98; 28000;occ; 92; 0;40690
 3; 1748.1; 11-DEC-2009 17:00:49; Dark ; 48.5; 7; 19Bet Ori ; 0.10; 14000;occ; 97; 0;40690
 4; 1893.3; 11-DEC-2009 17:03:15; Dark ; 50.5; 30; 46Eps Ori ; 1.69; 30000;occ; 101; 0;40690
 5; 2039.4; 11-DEC-2009 17:05:41; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;40690
 6; 2196.5; 11-DEC-2009 17:08:18; Dark ; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;40690
 7; 2354.0; 11-DEC-2009 17:10:55; Bright; 48.0; 176; 23Zet Tau ; 3.02; 22000;occ; 96; 0;40690
 8; 2475.3; 11-DEC-2009 17:12:57; Bright; 46.5; 28; 12Bet Tau ; 1.65; 15200;occ; 93; 0;40690
 9; 2591.0; 11-DEC-2009 17:14:52; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;40690
 10; 2765.3; 11-DEC-2009 17:17:47; Bright; 43.5; 6; 13Alp Aur ; 0.08; 3400;occ; 87; 0;40690
 11; 3759.4; 11-DEC-2009 17:34:21; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;40690
 12; 3994.9; 11-DEC-2009 17:38:16; Bright; 51.0; 32; 77Eps UMa ; 1.76; 11000;occ; 102; 0;40690
 13; 4140.1; 11-DEC-2009 17:40:41; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;40690
 14; 4332.2; 11-DEC-2009 17:43:54; Bright; 42.0; 180; 27Gam Boo ; 3.04; 8000;occ; 84; 0;40690
 15; 4712.2; 11-DEC-2009 17:50:14; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;40690
 16; 4931.3; 11-DEC-2009 17:53:53; Bright; 68.0; 138; 47Eps Vir ; 2.83; 4700;occ; 136; 0;40690
 17; 5232.4; 11-DEC-2009 17:58:54; Dark ; 56.0; 121; 29Gam Vir ; 2.74; 7200;occ; 112; 0;40690
 18; 5494.3; 11-DEC-2009 18:03:16; Dark ; 44.5; 169; 46Gam Hya ; 2.99; 4700;occ; 89; 0;40690
 19; 5610.0; 11-DEC-2009 18:05:11; Dark ; 50.5; 100; 4Gam Crv ; 2.58; 13100;occ; 101; 0;40690

20; 5706.1; 11-DEC-2009 18:06:47; Dark ; 55.5; 171; 2Eps Crv ; 3.00; 4250;occ; 111; 0;40690
 21; 5940.2; 11-DEC-2009 18:10:42; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;40690
 22; 6033.8; 11-DEC-2009 18:12:15; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40690
 23; 6251.8; 11-DEC-2009 18:15:53; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40690
 24; 6494.7; 11-DEC-2009 18:19:56; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40690
 25; 6568.4; 11-DEC-2009 18:21:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40690
 26; 6768.2; 11-DEC-2009 18:24:30; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40690
 27; 6915.9; 11-DEC-2009 18:26:57; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;40690
 28; 7067.9; 11-DEC-2009 18:29:29; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;40690

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 2; 1236.3; 11-DEC-2009 18:32:54; Dark ; 58.5; 23; 21Eps CMa ; 1.50; 26000;occ; 117; 0;40691
 3; 1528.7; 11-DEC-2009 18:37:46; Dark ; 46.0; 47; 2Bet CMa ; 1.98; 28000;occ; 92; 0;40691
 4; 1748.2; 11-DEC-2009 18:41:26; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;40691
 5; 1893.3; 11-DEC-2009 18:43:51; Dark ; 50.0; 30; 46Eps Ori ; 1.69; 30000;occ; 100; 0;40691
 6; 2039.3; 11-DEC-2009 18:46:17; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;40691
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 9; 2474.9; 11-DEC-2009 18:53:32; Bright; 44.5; 28; 12Bet Tau ; 1.65; 15200;occ; 89; 0;40691
 10; 2590.8; 11-DEC-2009 18:55:28; Bright; 34.5; 149; 45Eps Per ; 2.89; 30000;occ; 69; 0;40691
 11; 2764.9; 11-DEC-2009 18:58:22; Bright; 44.5; 6; 13Alp Aur ; 0.08; 3400;occ; 89; 0;40691
 12; 3759.3; 11-DEC-2009 19:14:57; Bright; 43.0; 36; 50Alp UMa ; 1.80; 6300;occ; 86; 0;40691
 13; 3994.7; 11-DEC-2009 19:18:52; Bright; 46.0; 32; 77Eps UMa ; 1.76; 11000;occ; 92; 0;40691
 14; 4140.2; 11-DEC-2009 19:21:18; Bright; 42.0; 39; 85Eta UMa ; 1.85; 24000;occ; 84; 0;40691
 15; 4332.4; 11-DEC-2009 19:24:30; Bright; 34.0; 180; 27Gam Boo ; 3.04; 8000;occ; 68; 0;40691
 16; 4712.6; 11-DEC-2009 19:30:50; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;40691
 17; 4931.5; 11-DEC-2009 19:34:29; Bright; 68.0; 138; 47Eps Vir ; 2.83; 4700;occ; 136; 0;40691
 18; 5233.2; 11-DEC-2009 19:39:31; Dark ; 55.5; 121; 29Gam Vir ; 2.74; 7200;occ; 111; 0;40691
 19; 5494.8; 11-DEC-2009 19:43:52; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;40691
 20; 5611.2; 11-DEC-2009 19:45:49; Dark ; 52.5; 100; 4Gam Crv ; 2.58; 13100;occ; 105; 0;40691
 21; 5707.4; 11-DEC-2009 19:47:25; Dark ; 56.0; 171; 2Eps Crv ; 3.00; 4250;occ; 112; 0;40691
 22; 5940.8; 11-DEC-2009 19:51:18; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40691
 23; 6034.2; 11-DEC-2009 19:52:52; Dark ; 43.0; 99; Del Cen ; 2.58; 26000;occ; 86; 0;40691
 24; 6252.5; 11-DEC-2009 19:56:30; Dark ; 54.0; 113; Mu Vel ; 2.69; 5000;occ; 108; 0;40691
 25; 6495.3; 11-DEC-2009 20:00:33; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;40691
 26; 6569.1; 11-DEC-2009 20:01:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40691
 27; 6768.9; 11-DEC-2009 20:05:06; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40691
 28; 6916.2; 11-DEC-2009 20:07:34; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;40691

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 3; -325.1; 12-DEC-2009 00:49:16; Dark ; 52.0; 171; 2Eps Crv ; 3.00; 4250;occ; 104; 0;40694
 4; -93.5; 12-DEC-2009 00:53:08; Dark ; 39.0; 64; Gam Cen ; 2.20; 10600;occ; 78; 0;40694
 5; 0.3; 12-DEC-2009 00:54:41; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;40695
 6; 219.2; 12-DEC-2009 00:58:20; Dark ; 49.5; 113; Mu Vel ; 2.69; 5000;occ; 99; 0;40695
 7; 461.2; 12-DEC-2009 01:02:22; Dark ; 45.0; 71; Iot Car ; 2.25; 7700;occ; 90; 0;40695
 8; 535.5; 12-DEC-2009 01:03:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40695
 9; 735.0; 12-DEC-2009 01:06:56; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40695
 10; 881.5; 12-DEC-2009 01:09:23; Dark ; 40.0; 2; Alp Car ; -0.74; 7000;occ; 80; 0;40695
 11; 1034.5; 12-DEC-2009 01:11:55; Dark ; 52.5; 117; Pi Pup ; 2.71; 3800;occ; 105; 0;40695
 12; 1238.4; 12-DEC-2009 01:15:19; Dark ; 55.0; 23; 21Eps CMa ; 1.50; 26000;occ; 110; 0;40695
 13; 1529.2; 12-DEC-2009 01:20:10; Dark ; 54.0; 47; 2Bet CMa ; 1.98; 28000;occ; 108; 0;40695
 14; 1748.1; 12-DEC-2009 01:23:49; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;40695
 15; 1892.4; 12-DEC-2009 01:26:13; Dark ; 52.0; 30; 46Eps Ori ; 1.69; 30000;occ; 104; 0;40695
 16; 2038.0; 12-DEC-2009 01:28:39; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;40695
 17; 2195.8; 12-DEC-2009 01:31:17; Dark ; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;40695
 18; 2351.4; 12-DEC-2009 01:33:52; Bright; 43.5; 176; 23Zet Tau ; 3.02; 22000;occ; 87; 0;40695
 19; 2451.0; 12-DEC-2009 01:35:32; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;40695
 20; 2590.5; 12-DEC-2009 01:37:52; Bright; 34.5; 149; 45Eps Per ; 2.89; 30000;occ; 69; 0;40695
 21; 2763.2; 12-DEC-2009 01:40:44; Bright; 44.0; 6; 13Alp Aur ; 0.08; 3400;occ; 88; 0;40695
 22; 3757.3; 12-DEC-2009 01:57:18; Bright; 49.0; 36; 50Alp UMa ; 1.80; 6300;occ; 98; 0;40695
 23; 3993.8; 12-DEC-2009 02:01:15; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;40695
 24; 4140.1; 12-DEC-2009 02:03:41; Bright; 42.5; 39; 85Eta UMa ; 1.85; 24000;occ; 85; 0;40695
 25; 4332.8; 12-DEC-2009 02:06:54; Bright; 34.0; 180; 27Gam Boo ; 3.04; 8000;occ; 68; 0;40695
 26; 4713.8; 12-DEC-2009 02:13:15; Bright; 38.0; 111; 8Eta Boo ; 2.68; 6000;occ; 76; 0;40695
 27; 4934.0; 12-DEC-2009 02:16:55; Bright; 67.5; 138; 47Eps Vir ; 2.83; 4700;occ; 135; 0;40695

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3; -324.0; 12-DEC-2009 02:29:53; Dark ; 53.5; 171; 2Eps Crv ; 3.00; 4250;occ; 107; 0;40695
4; -92.9; 12-DEC-2009 02:33:44; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40695
5; 1.0; 12-DEC-2009 02:35:18; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;40696
6; 220.0; 12-DEC-2009 02:38:57; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40696
7; 461.8; 12-DEC-2009 02:42:59; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;40696
8; 536.3; 12-DEC-2009 02:44:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40696
9; 735.8; 12-DEC-2009 02:47:33; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40696
10; 881.8; 12-DEC-2009 02:49:59; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;40696
11; 1034.9; 12-DEC-2009 02:52:32; Dark ; 53.5; 117; Pi Pup ; 2.71; 3800;occ; 107; 0;40696
12; 1238.7; 12-DEC-2009 02:55:56; Dark ; 58.0; 23; 21Eps CMA ; 1.50; 26000;occ; 116; 0;40696
13; 1529.5; 12-DEC-2009 03:00:46; Dark ; 53.5; 47; 2Bet CMA ; 1.98; 28000;occ; 107; 0;40696
14; 1748.1; 12-DEC-2009 03:04:25; Dark ; 51.5; 7; 19Bet Ori ; 0.10; 14000;occ; 103; 0;40696
15; 1892.3; 12-DEC-2009 03:06:49; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;40696
16; 2037.9; 12-DEC-2009 03:09:15; Dark ; 51.5; 27; 24Gam Ori ; 1.64; 26000;occ; 103; 0;40696
17; 2195.8; 12-DEC-2009 03:11:53; Dark ; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;40696
18; 2350.8; 12-DEC-2009 03:14:28; Bright; 49.0; 176; 23Zet Tau ; 3.02; 22000;occ; 98; 0;40696
19; 2450.9; 12-DEC-2009 03:16:08; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;40696
20; 2590.4; 12-DEC-2009 03:18:27; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;40696
21; 2702.8; 12-DEC-2009 03:20:20; Bright; 30.0; 107; 37The Aur ; 2.65; 11000;occ; 60; 0;40696
22; 2762.8; 12-DEC-2009 03:21:20; Bright; 45.0; 6; 13Alp Aur ; 0.08; 3400;occ; 90; 0;40696

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1; -2279.1; 12-DEC-2009 03:37:54; Bright; 49.5; 36; 50Alp UMA ; 1.80; 6300;occ; 99; 0;40696
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3; -1896.0; 12-DEC-2009 03:44:17; Bright; 56.0; 39; 85Eta UMA ; 1.85; 24000;occ; 112; 0;40696
4; -1703.3; 12-DEC-2009 03:47:30; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;40696
5; -1322.2; 12-DEC-2009 03:53:51; Bright; 57.0; 111; 8Eta Boo ; 2.68; 6000;occ; 114; 0;40696
6; -1101.7; 12-DEC-2009 03:57:31; Bright; 68.0; 138; 47Eps Vir ; 2.83; 4700;occ; 136; 0;40696
7; -746.8; 12-DEC-2009 04:03:26; Dark ; 50.0; 15; 67Alp Vir ; 0.98; 28000;occ; 100; 0;40696
8; -537.8; 12-DEC-2009 04:06:55; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;40696
9; -418.8; 12-DEC-2009 04:08:54; Dark ; 52.0; 100; 4Gam Crv ; 2.58; 13100;occ; 104; 0;40696
10; -322.8; 12-DEC-2009 04:10:30; Dark ; 56.5; 171; 2Eps Crv ; 3.00; 4250;occ; 113; 0;40696
11; -92.2; 12-DEC-2009 04:14:21; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40696
12; 1.5; 12-DEC-2009 04:15:54; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40697
13; 221.0; 12-DEC-2009 04:19:34; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40697
14; 462.5; 12-DEC-2009 04:23:35; Dark ; 46.5; 71; Iot Car ; 2.25; 7700;occ; 93; 0;40697
15; 537.1; 12-DEC-2009 04:24:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40697
16; 736.6; 12-DEC-2009 04:28:10; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40697
17; 882.1; 12-DEC-2009 04:30:35; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;40697
18; 1035.4; 12-DEC-2009 04:33:08; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;40697
19; 1239.0; 12-DEC-2009 04:36:32; Dark ; 58.0; 23; 21Eps CMA ; 1.50; 26000;occ; 116; 0;40697
20; 1529.6; 12-DEC-2009 04:41:23; Dark ; 54.5; 47; 2Bet CMA ; 1.98; 28000;occ; 109; 0;40697
21; 1748.1; 12-DEC-2009 04:45:01; Dark ; 51.5; 7; 19Bet Ori ; 0.10; 14000;occ; 103; 0;40697
22; 1892.0; 12-DEC-2009 04:47:25; Dark ; 52.0; 30; 46Eps Ori ; 1.69; 30000;occ; 104; 0;40697
23; 2037.7; 12-DEC-2009 04:49:51; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;40697
24; 2195.6; 12-DEC-2009 04:52:29; Dark ; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;40697
25; 2350.3; 12-DEC-2009 04:55:03; Bright; 46.5; 176; 23Zet Tau ; 3.02; 22000;occ; 93; 0;40697
26; 2450.9; 12-DEC-2009 04:56:44; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;40697
27; 2590.5; 12-DEC-2009 04:59:03; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;40697
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 26; 6920.6; 12-DEC-2009 14:34:13; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;40702
 27; 7075.3; 12-DEC-2009 14:36:48; Dark ; 52.0; 117; Pi Pup ; 2.71; 3800;occ; 104; 0;40702
 28; 7277.8; 12-DEC-2009 14:40:10; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;40702

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1; 1530.3; 12-DEC-2009 14:44:59; Dark ; 55.0; 47; 2Bet CMA ; 1.98; 28000;occ; 110; 0;40703
 2; 1748.4; 12-DEC-2009 14:48:37; Dark ; 49.5; 7; 19Bet Ori ; 0.10; 14000;occ; 99; 0;40703
 3; 1891.2; 12-DEC-2009 14:51:00; Dark ; 51.5; 30; 46Eps Ori ; 1.69; 30000;occ; 103; 0;40703
 4; 2036.3; 12-DEC-2009 14:53:25; Dark ; 49.0; 27; 24Gam Ori ; 1.64; 26000;occ; 98; 0;40703
 5; 2194.9; 12-DEC-2009 14:56:03; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;40703
 6; 2347.3; 12-DEC-2009 14:58:36; Bright; 47.0; 176; 23Zet Tau ; 3.02; 22000;occ; 94; 0;40703
 7; 2469.1; 12-DEC-2009 15:00:38; Bright; 47.0; 28; 12Bet Tau ; 1.65; 15200;occ; 94; 0;40703
 8; 2589.9; 12-DEC-2009 15:02:38; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;40703
 9; 2697.5; 12-DEC-2009 15:04:26; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;40703
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 11; 3753.7; 12-DEC-2009 15:22:02; Bright; 49.5; 36; 50Alp UMa ; 1.80; 6300;occ; 99; 0;40703
 12; 3992.7; 12-DEC-2009 15:26:01; Bright; 44.0; 32; 77Eps UMa ; 1.76; 11000;occ; 88; 0;40703
 13; 4139.9; 12-DEC-2009 15:28:28; Bright; 41.0; 39; 85Eta UMa ; 1.85; 24000;occ; 82; 0;40703
 14; 4333.4; 12-DEC-2009 15:31:42; Bright; 54.0; 180; 27Gam Boo ; 3.04; 8000;occ; 108; 0;40703
 15; 4716.0; 12-DEC-2009 15:38:04; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;40703
 16; 4938.4; 12-DEC-2009 15:41:47; Bright; 49.5; 138; 47Eps Vir ; 2.83; 4700;occ; 99; 0;40703
 17; 5293.6; 12-DEC-2009 15:47:42; Dark ; 49.0; 15; 67Alp Vir ; 0.98; 28000;occ; 98; 0;40703
 18; 5502.7; 12-DEC-2009 15:51:11; Dark ; 42.0; 169; 46Gam Hya ; 2.99; 4700;occ; 84; 0;40703
 19; 5625.6; 12-DEC-2009 15:53:14; Dark ; 55.0; 100; 4Gam Crv ; 2.58; 13100;occ; 110; 0;40703
 20; 5721.5; 12-DEC-2009 15:54:50; Dark ; 57.0; 171; 2Eps Crv ; 3.00; 4250;occ; 114; 0;40703
 21; 5947.8; 12-DEC-2009 15:58:36; Dark ; 39.5; 64; Gam Cen ; 2.20; 10600;occ; 79; 0;40703
 22; 6042.2; 12-DEC-2009 16:00:11; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40703
 23; 6263.1; 12-DEC-2009 16:03:52; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40703
 24; 6503.2; 12-DEC-2009 16:07:52; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40703
 25; 6578.5; 12-DEC-2009 16:09:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40703
 26; 6777.9; 12-DEC-2009 16:12:26; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;40703
 27; 6921.1; 12-DEC-2009 16:14:50; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;40703
 28; 7076.1; 12-DEC-2009 16:17:25; Dark ; 53.5; 117; Pi Pup ; 2.71; 3800;occ; 107; 0;40703
 29; 7278.4; 12-DEC-2009 16:20:47; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;40703

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1; 1242.4; 12-DEC-2009 16:20:47; Dark ; 57.0; 23; 21Eps CMA ; 1.50; 26000;occ; 114; 0;40704
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 3; 1748.3; 12-DEC-2009 16:29:13; Dark ; 49.5; 7; 19Bet Ori ; 0.10; 14000;occ; 99; 0;40704
 4; 1891.3; 12-DEC-2009 16:31:36; Dark ; 51.5; 30; 46Eps Ori ; 1.69; 30000;occ; 103; 0;40704
 5; 2036.1; 12-DEC-2009 16:34:01; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;40704
 6; 2194.9; 12-DEC-2009 16:36:39; Dark ; 55.0; 13; 87Alp Tau ; 0.87; 3800;occ; 110; 0;40704
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 9; 2590.0; 12-DEC-2009 16:43:15; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;40704
 10; 2696.9; 12-DEC-2009 16:45:01; Bright; 45.0; 107; 37The Aur ; 2.65; 11000;occ; 90; 0;40704
 11; 2824.1; 12-DEC-2009 16:47:09; Bright; 45.0; 42; 34Bet Aur ; 1.90; 10200;occ; 90; 0;40704
 12; 3753.1; 12-DEC-2009 17:02:38; Bright; 64.0; 36; 50Alp UMa ; 1.80; 6300;occ; 128; 0;40704
 13; 3992.2; 12-DEC-2009 17:06:37; Bright; 47.0; 32; 77Eps UMa ; 1.76; 11000;occ; 94; 0;40704
 14; 4140.1; 12-DEC-2009 17:09:05; Bright; 57.0; 39; 85Eta UMa ; 1.85; 24000;occ; 114; 0;40704
 15; 4333.6; 12-DEC-2009 17:12:18; Bright; 33.5; 180; 27Gam Boo ; 3.04; 8000;occ; 67; 0;40704
 16; 4716.6; 12-DEC-2009 17:18:41; Bright; 39.0; 111; 8Eta Boo ; 2.68; 6000;occ; 78; 0;40704
 17; 4939.2; 12-DEC-2009 17:22:24; Bright; 49.5; 138; 47Eps Vir ; 2.83; 4700;occ; 99; 0;40704
 18; 5294.4; 12-DEC-2009 17:28:19; Dark ; 50.0; 15; 67Alp Vir ; 0.98; 28000;occ; 100; 0;40704
 19; 5503.5; 12-DEC-2009 17:31:48; Dark ; 48.0; 169; 46Gam Hya ; 2.99; 4700;occ; 96; 0;40704

20; 5626.7; 12-DEC-2009 17:33:51; Dark ; 53.0; 100; 4Gam Crv ; 2.58; 13100;occ; 106; 0;40704
 21; 5722.4; 12-DEC-2009 17:35:27; Dark ; 58.0; 171; 2Eps Crv ; 3.00; 4250;occ; 116; 0;40704
 22; 5948.4; 12-DEC-2009 17:39:13; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;40704
 23; 6042.9; 12-DEC-2009 17:40:47; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40704
 24; 6263.9; 12-DEC-2009 17:44:28; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;40704
 25; 6503.7; 12-DEC-2009 17:48:28; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;40704
 26; 6579.3; 12-DEC-2009 17:49:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40704
 27; 6778.7; 12-DEC-2009 17:53:03; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;40704
 28; 6921.5; 12-DEC-2009 17:55:26; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;40704
 29; 7076.7; 12-DEC-2009 17:58:01; Dark ; 56.5; 117; Pi Pup ; 2.71; 3800;occ; 113; 0;40704

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 2; 1530.6; 12-DEC-2009 18:06:11; Dark ; 56.0; 47; 2Bet CMa ; 1.98; 28000;occ; 112; 0;40705
 3; 1748.4; 12-DEC-2009 18:09:49; Dark ; 49.5; 7; 19Bet Ori ; 0.10; 14000;occ; 99; 0;40705
 4; 1891.0; 12-DEC-2009 18:12:12; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;40705
 5; 2035.7; 12-DEC-2009 18:14:36; Dark ; 49.5; 27; 24Gam Ori ; 1.64; 26000;occ; 99; 0;40705
 6; 2194.7; 12-DEC-2009 18:17:15; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;40705
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 9; 2589.8; 12-DEC-2009 18:23:50; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;40705
 10; 2696.0; 12-DEC-2009 18:25:37; Bright; 47.0; 107; 37The Aur ; 2.65; 11000;occ; 94; 0;40705
 11; 2823.6; 12-DEC-2009 18:27:44; Bright; 45.5; 42; 34Bet Aur ; 1.90; 10200;occ; 91; 0;40705
 12; 3752.6; 12-DEC-2009 18:43:13; Bright; 44.0; 36; 50Alp UMa ; 1.80; 6300;occ; 88; 0;40705
 13; 3992.3; 12-DEC-2009 18:47:13; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;40705
 14; 4139.7; 12-DEC-2009 18:49:40; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;40705
 15; 4333.6; 12-DEC-2009 18:52:54; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;40705
 16; 4716.5; 12-DEC-2009 18:59:17; Bright; 39.0; 111; 8Eta Boo ; 2.68; 6000;occ; 78; 0;40705
 17; 4939.5; 12-DEC-2009 19:03:00; Bright; 55.0; 138; 47Eps Vir ; 2.83; 4700;occ; 110; 0;40705
 18; 5295.1; 12-DEC-2009 19:08:56; Dark ; 51.0; 15; 67Alp Vir ; 0.98; 28000;occ; 102; 0;40705
 19; 5504.1; 12-DEC-2009 19:12:25; Dark ; 46.0; 169; 46Gam Hya ; 2.99; 4700;occ; 92; 0;40705
 20; 5627.9; 12-DEC-2009 19:14:28; Dark ; 52.5; 100; 4Gam Crv ; 2.58; 13100;occ; 105; 0;40705
 21; 5723.8; 12-DEC-2009 19:16:04; Dark ; 55.0; 171; 2Eps Crv ; 3.00; 4250;occ; 110; 0;40705
 22; 5948.9; 12-DEC-2009 19:19:49; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;40705
 23; 6043.6; 12-DEC-2009 19:21:24; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40705
 24; 6264.7; 12-DEC-2009 19:25:05; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40705
 25; 6504.3; 12-DEC-2009 19:29:05; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40705
 26; 6580.0; 12-DEC-2009 19:30:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40705
 27; 6779.3; 12-DEC-2009 19:33:40; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40705
 28; 6921.9; 12-DEC-2009 19:36:03; Dark ; 29.0; 2; Alp Car ; -0.74; 7000;occ; 58; 0;40705

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 2; 1041.2; 12-DEC-2009 19:38:38; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;40706
 3; 1243.2; 12-DEC-2009 19:42:00; Dark ; 57.0; 23; 21Eps CMa ; 1.50; 26000;occ; 114; 0;40706
 4; 1530.7; 12-DEC-2009 19:46:47; Dark ; 55.0; 47; 2Bet CMa ; 1.98; 28000;occ; 110; 0;40706
 5; 1748.3; 12-DEC-2009 19:50:25; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;40706
 6; 1890.9; 12-DEC-2009 19:52:47; Dark ; 50.0; 30; 46Eps Ori ; 1.69; 30000;occ; 100; 0;40706
 7; 2035.6; 12-DEC-2009 19:55:12; Dark ; 48.0; 27; 24Gam Ori ; 1.64; 26000;occ; 96; 0;40706
 8; 2194.5; 12-DEC-2009 19:57:51; Dark ; 55.0; 13; 87Alp Tau ; 0.87; 3800;occ; 110; 0;40706
 9; 2345.5; 12-DEC-2009 20:00:22; Bright; 45.5; 176; 23Zet Tau ; 3.02; 22000;occ; 91; 0;40706
 10; 2467.6; 12-DEC-2009 20:02:24; Bright; 45.0; 28; 12Bet Tau ; 1.65; 15200;occ; 90; 0;40706
 11; 2589.7; 12-DEC-2009 20:04:26; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;40706
 12; 2695.2; 12-DEC-2009 20:06:12; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;40706
 13; 2822.9; 12-DEC-2009 20:08:19; Bright; 46.5; 42; 34Bet Aur ; 1.90; 10200;occ; 93; 0;40706
 14; 3752.1; 12-DEC-2009 20:23:49; Bright; 48.5; 36; 50Alp UMa ; 1.80; 6300;occ; 97; 0;40706
 15; 3992.0; 12-DEC-2009 20:27:49; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;40706
 16; 4139.9; 12-DEC-2009 20:30:16; Bright; 41.5; 39; 85Eta UMa ; 1.85; 24000;occ; 83; 0;40706
 17; 4333.5; 12-DEC-2009 20:33:30; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;40706
 18; 4716.6; 12-DEC-2009 20:39:53; Bright; 37.5; 111; 8Eta Boo ; 2.68; 6000;occ; 75; 0;40706
 19; 4940.2; 12-DEC-2009 20:43:37; Bright; 53.5; 138; 47Eps Vir ; 2.83; 4700;occ; 107; 0;40706

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 3; -407.0; 12-DEC-2009 20:55:05; Dark ; 54.0; 100; 4Gam Crv ; 2.58; 13100;occ; 108; 0;40706
 4; -311.0; 12-DEC-2009 20:56:42; Dark ; 52.0; 171; 2Eps Crv ; 3.00; 4250;occ; 104; 0;40706
 5; -86.5; 12-DEC-2009 21:00:26; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40706
 6; 8.2; 12-DEC-2009 21:02:01; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40707
 7; 229.7; 12-DEC-2009 21:05:42; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40707
 8; 468.7; 12-DEC-2009 21:09:41; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;40707

9; 544.8; 12-DEC-2009 21:10:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40707
 10; 744.0; 12-DEC-2009 21:14:16; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;40707
 11; 886.5; 12-DEC-2009 21:16:39; Dark ; 56.0; 2; Alp Car ;-0.74; 7000;occ; 112; 0;40707
 12; 1041.6; 12-DEC-2009 21:19:14; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;40707
 13; 1243.7; 12-DEC-2009 21:22:36; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;40707
 14; 1530.8; 12-DEC-2009 21:27:23; Dark ; 54.0; 47; 2Bet CMA ; 1.98; 28000;occ; 108; 0;40707
 15; 1748.4; 12-DEC-2009 21:31:01; Dark ; 53.0; 7; 19Bet Ori ; 0.10; 14000;occ; 106; 0;40707
 16; 1890.6; 12-DEC-2009 21:33:23; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;40707
 17; 2035.2; 12-DEC-2009 21:35:48; Dark ; 49.5; 27; 24Gam Ori ; 1.64; 26000;occ; 99; 0;40707
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 22; 2694.5; 12-DEC-2009 21:46:47; Bright; 46.0; 107; 37The Aur ; 2.65; 11000;occ; 92; 0;40707
 23; 2822.1; 12-DEC-2009 21:48:55; Bright; 66.0; 42; 34Bet Aur ; 1.90; 10200;occ; 132; 0;40707
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 25; 3991.9; 12-DEC-2009 22:08:24; Bright; 45.0; 32; 77Eps UMa ; 1.76; 11000;occ; 90; 0;40707
 26; 4139.7; 12-DEC-2009 22:10:52; Bright; 57.0; 39; 85Eta UMa ; 1.85; 24000;occ; 114; 0;40707
 27; 4333.8; 12-DEC-2009 22:14:06; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;40707
 28; 4716.9; 12-DEC-2009 22:20:29; Bright; 39.0; 111; 8Eta Boo ; 2.68; 6000;occ; 78; 0;40707
 29; 4940.7; 12-DEC-2009 22:24:13; Bright; 54.0; 138; 47Eps Vir ; 2.83; 4700;occ; 108; 0;40707
 30; 5296.0; 12-DEC-2009 22:30:09; Dark ; 44.0; 15; 67Alp Vir ; 0.98; 28000;occ; 88; 0;40707

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 3; -405.7; 12-DEC-2009 22:35:43; Dark ; 53.5; 100; 4Gam Crv ; 2.58; 13100;occ; 107; 0;40707
 4; -309.6; 12-DEC-2009 22:37:19; Dark ; 63.0; 171; 2Eps Crv ; 3.00; 4250;occ; 126; 0;40707
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 6; 8.7; 12-DEC-2009 22:42:37; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40708
 7; 230.5; 12-DEC-2009 22:46:19; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;40708
 8; 469.4; 12-DEC-2009 22:50:18; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;40708
 9; 545.6; 12-DEC-2009 22:51:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40708
 10; 744.7; 12-DEC-2009 22:54:53; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40708
 11; 886.9; 12-DEC-2009 22:57:15; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;40708
 12; 1042.3; 12-DEC-2009 22:59:51; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;40708
 13; 1244.3; 12-DEC-2009 23:03:13; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;40708
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 15; 1748.3; 12-DEC-2009 23:11:37; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;40708
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 22; 2693.9; 12-DEC-2009 23:27:22; Bright; 66.0; 107; 37The Aur ; 2.65; 11000;occ; 132; 0;40708
 23; 2821.5; 12-DEC-2009 23:29:30; Bright; 44.5; 42; 34Bet Aur ; 1.90; 10200;occ; 89; 0;40708
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 17; 5710.7; 17-DEC-2009 13:16:35; Dark ; 56.5; 106; 9Bet Crv ; 2.65; 5600;occ; 113; 0;40773
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 21; 6546.4; 17-DEC-2009 13:30:31; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;40773
 22; 6631.2; 17-DEC-2009 13:31:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40773
 23; 6828.1; 17-DEC-2009 13:35:13; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;40773
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 25; 7116.2; 17-DEC-2009 13:40:01; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;40773
 26; 7308.5; 17-DEC-2009 13:43:13; Dark ; 53.5; 23; 21Eps CMa ; 1.50; 26000;occ; 107; 0;40773
 27; 7414.8; 17-DEC-2009 13:44:59; Dark ; 49.5; 179; 240mi2CMa ; 3.03; 24000;occ; 99; 0;40773

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 6; 2316.4; 17-DEC-2009 14:00:37; Bright; 41.5; 176; 23Zet Tau ; 3.02; 22000;occ; 83; 0;40774
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 19; 5991.4; 17-DEC-2009 15:01:52; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40774
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 21; 6326.1; 17-DEC-2009 15:07:26; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40774

22; 6547.2; 17-DEC-2009 15:11:07; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40774
 23; 6632.0; 17-DEC-2009 15:12:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40774
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 25; 6957.5; 17-DEC-2009 15:17:58; Dark ; 51.0; 70; Zet Pup ; 2.25; 39000;occ; 102; 0;40774
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 27; 7309.0; 17-DEC-2009 15:23:49; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;40774
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 3; 1751.0; 17-DEC-2009 15:31:47; Dark ; 52.5; 7; 19Bet Ori ; 0.10; 14000;occ; 105; 0;40775
 4; 1883.1; 17-DEC-2009 15:33:59; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;40775
 5; 2067.4; 17-DEC-2009 15:37:04; Dark ; 65.0; 14; 58Alp Ori ; 0.87; 3000;occ; 130; 0;40775
 6; 2189.1; 17-DEC-2009 15:39:05; Dark ; 52.5; 13; 87Alp Tau ; 0.87; 3800;occ; 105; 0;40775
 7; 2316.0; 17-DEC-2009 15:41:12; Bright; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;40775
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 11; 3704.2; 17-DEC-2009 16:04:20; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;40775
 12; 3977.4; 17-DEC-2009 16:08:54; Bright; 62.0; 32; 77Eps UMa ; 1.76; 11000;occ; 124; 0;40775
 13; 4136.1; 17-DEC-2009 16:11:32; Bright; 41.5; 39; 85Eta UMa ; 1.85; 24000;occ; 83; 0;40775
 14; 4340.5; 17-DEC-2009 16:14:57; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;40775
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 19; 5712.9; 17-DEC-2009 16:37:49; Dark ; 58.0; 106; 9Bet Crv ; 2.65; 5600;occ; 116; 0;40775
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 21; 6091.6; 17-DEC-2009 16:44:08; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40775
 22; 6327.1; 17-DEC-2009 16:48:03; Dark ; 49.0; 113; Mu Vel ; 2.69; 5000;occ; 98; 0;40775
 23; 6547.7; 17-DEC-2009 16:51:44; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;40775
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 26; 6958.2; 17-DEC-2009 16:58:34; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;40775
 27; 7117.5; 17-DEC-2009 17:01:14; Dark ; 50.5; 117; Pi Pup ; 2.71; 3800;occ; 101; 0;40775

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 9; 2439.2; 17-DEC-2009 17:23:51; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;40776
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 11; 2781.4; 17-DEC-2009 17:29:34; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;40776
 12; 3704.1; 17-DEC-2009 17:44:56; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;40776
 13; 3977.1; 17-DEC-2009 17:49:29; Bright; 56.0; 32; 77Eps UMa ; 1.76; 11000;occ; 112; 0;40776
 14; 4136.2; 17-DEC-2009 17:52:08; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;40776
 15; 4340.5; 17-DEC-2009 17:55:33; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;40776
 16; 4535.5; 17-DEC-2009 17:58:48; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;40776
 17; 4738.4; 17-DEC-2009 18:02:11; Bright; 41.5; 111; 8Eta Boo ; 2.68; 6000;occ; 83; 0;40776
 18; 5345.4; 17-DEC-2009 18:12:18; Dark ; 52.5; 15; 67Alp Vir ; 0.98; 28000;occ; 105; 0;40776
 19; 5556.2; 17-DEC-2009 18:15:48; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;40776
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 25; 6633.5; 17-DEC-2009 18:33:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40776
 26; 6830.3; 17-DEC-2009 18:37:03; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;40776
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9; 2315.1; 17-DEC-2009 19:02:23; Bright; 43.5; 176; 23Zet Tau ; 3.02; 22000;occ; 87; 0;40777
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16; 4340.3; 17-DEC-2009 19:36:09; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;40777
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22; 5993.2; 17-DEC-2009 20:03:41; Dark ; 50.5; 64; Gam Cen ; 2.20; 10600;occ; 101; 0;40777
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4; -1296.1; 18-DEC-2009 02:25:12; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;40781
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19; 1751.3; 18-DEC-2009 03:15:59; Dark ; 47.0; 7; 19Bet Ori ; 0.10; 14000;occ; 94; 0;40782
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 27; 6969.2; 18-DEC-2009 18:07:45; Dark ; 50.0; 70; Zet Pup ; 2.25; 39000;occ; 100; 0;40790
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 12; 2773.4; 18-DEC-2009 18:38:25; Bright; 41.5; 42; 34Bet Aur ; 1.90; 10200;occ; 83; 0;40791
 13; 3703.5; 18-DEC-2009 18:53:55; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40791
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 23; 6102.9; 18-DEC-2009 19:33:54; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40791
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 25; 6557.4; 18-DEC-2009 19:41:29; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40791
 26; 6644.4; 18-DEC-2009 19:42:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40791
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 6; 308.0; 19-DEC-2009 00:39:43; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40795
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 21; 2639.5; 19-DEC-2009 01:18:34; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;40795
 22; 2727.1; 19-DEC-2009 01:20:02; Bright; 44.5; 6; 13Alp Aur ; 0.08; 3400;occ; 89; 0;40795
 23; 3703.2; 19-DEC-2009 01:36:18; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40795
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 8; 611.3; 19-DEC-2009 02:25:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40796
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 22; 2726.8; 19-DEC-2009 03:00:38; Bright; 44.0; 6; 13Alp Aur ; 0.08; 3400;occ; 88; 0;40796

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 4; -1693.9; 19-DEC-2009 03:27:33; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;40796
 5; -1497.1; 19-DEC-2009 03:30:50; Bright; 55.0; 83; ; 2.38; 11000;occ; 110; 0;40796
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6; 2610.0; 23-DEC-2009 07:34:37; Bright; 40.0; 107; 37The Aur ; 2.65; 11000;occ; 80; 0;40856
7; 2711.6; 23-DEC-2009 07:36:19; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;40856
8; 3700.8; 23-DEC-2009 07:52:48; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;40856
9; 3955.6; 23-DEC-2009 07:57:03; Bright; 46.0; 32; 77Eps UMa ; 1.76; 11000;occ; 92; 0;40856
10; 4128.8; 23-DEC-2009 07:59:56; Bright; 45.5; 39; 85Eta UMa ; 1.85; 24000;occ; 91; 0;40856
11; 4346.7; 23-DEC-2009 08:03:34; Bright; 57.0; 180; 27Gam Boo ; 3.04; 8000;occ; 114; 0;40856
12; 4549.7; 23-DEC-2009 08:06:57; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;40856
13; 4767.3; 23-DEC-2009 08:10:34; Bright; 66.0; 111; 8Eta Boo ; 2.68; 6000;occ; 132; 0;40856
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9; 3955.4; 23-DEC-2009 09:37:38; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;40857
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 23; 6624.2; 26-DEC-2009 17:10:16; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;40904
 24; 6726.4; 26-DEC-2009 17:11:58; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;40904
 25; 6911.1; 26-DEC-2009 17:15:03; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40904
 26; 7042.6; 26-DEC-2009 17:17:14; Dark ; 48.0; 70; Zet Pup ; 2.25; 39000;occ; 96; 0;40904
 27; 7178.7; 26-DEC-2009 17:19:30; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;40904

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1;	1142.6;	26-DEC-2009	17:19:30;	Dark	;	49.0;	117;	Pi Pup	;	2.71;	3800;	occ;	98;	0;	40905
2;	1318.8;	26-DEC-2009	17:22:27;	Dark	;	48.0;	23;	21Eps CMa	;	1.50;	26000;	occ;	96;	0;	40905
3;	1415.5;	26-DEC-2009	17:24:03;	Dark	;	47.5;	179;	240mi2CMa	;	3.03;	24000;	occ;	95;	0;	40905
4;	1572.6;	26-DEC-2009	17:26:40;	Dark	;	53.5;	1;	9Alp CMa	;	-1.44;	11000;	occ;	107;	0;	40905
5;	1724.8;	26-DEC-2009	17:29:13;	Dark	;	43.5;	56;	53Kap Ori	;	2.07;	30000;	occ;	87;	0;	40905
6;	1878.8;	26-DEC-2009	17:31:47;	Dark	;	45.0;	30;	46Eps Ori	;	1.69;	30000;	occ;	90;	0;	40905
7;	2040.0;	26-DEC-2009	17:34:28;	Dark	;	49.5;	14;	58Alp Ori	;	0.87;	3000;	occ;	99;	0;	40905
8;	2260.4;	26-DEC-2009	17:38:08;	Dark	;	52.5;	44;	24Gam Gem	;	1.93;	11000;	occ;	105;	0;	40905
9;	2406.5;	26-DEC-2009	17:40:34;	Bright;		40.0;	28;	12Bet Tau	;	1.65;	15200;	occ;	80;	0;	40905
10;	2590.4;	26-DEC-2009	17:43:38;	Bright;		41.0;	107;	37The Aur	;	2.65;	11000;	occ;	82;	0;	40905
11;	2701.9;	26-DEC-2009	17:45:30;	Bright;		41.5;	6;	13Alp Aur	;	0.08;	3400;	occ;	83;	0;	40905
12;	3644.3;	26-DEC-2009	18:01:12;	Bright;		48.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	96;	0;	40905
13;	3940.1;	26-DEC-2009	18:06:08;	Bright;		43.0;	32;	77Eps UMa	;	1.76;	11000;	occ;	86;	0;	40905
14;	4122.1;	26-DEC-2009	18:09:10;	Bright;		46.0;	39;	85Eta UMa	;	1.85;	24000;	occ;	92;	0;	40905
15;	4349.5;	26-DEC-2009	18:12:57;	Bright;		59.0;	180;	27Gam Boo	;	3.04;	8000;	occ;	118;	0;	40905
16;	4559.1;	26-DEC-2009	18:16:27;	Bright;		40.0;	83;		;	2.38;	11000;	occ;	80;	0;	40905
17;	4788.1;	26-DEC-2009	18:20:16;	Bright;		70.0;	111;	8Eta Boo	;	2.68;	6000;	occ;	140;	0;	40905
18;	5313.2;	26-DEC-2009	18:29:01;	Dark	;	43.0;	122;	9Alp2Lib	;	2.75;	9700;	occ;	86;	0;	40905
19;	5465.9;	26-DEC-2009	18:31:34;	Dark	;	58.5;	15;	67Alp Vir	;	0.98;	28000;	occ;	117;	0;	40905
20;	5716.7;	26-DEC-2009	18:35:45;	Dark	;	45.0;	54;	5The Cen	;	2.06;	4500;	occ;	90;	0;	40905
21;	5843.1;	26-DEC-2009	18:37:51;	Dark	;	42.5;	123;	Iot Cen	;	2.75;	10200;	occ;	85;	0;	40905
22;	6083.4;	26-DEC-2009	18:41:51;	Dark	;	46.5;	64;	Gam Cen	;	2.20;	10600;	occ;	93;	0;	40905
23;	6177.5;	26-DEC-2009	18:43:25;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	40905
24;	6444.9;	26-DEC-2009	18:47:53;	Dark	;	47.5;	113;	Mu Vel	;	2.69;	5000;	occ;	95;	0;	40905
25;	6624.8;	26-DEC-2009	18:50:53;	Dark	;	47.0;	71;	Iot Car	;	2.25;	7700;	occ;	94;	0;	40905
26;	6726.9;	26-DEC-2009	18:52:35;	Dark	;	52.5;	41;	Eps Car	;	1.86;	4100;	occ;	105;	0;	40905
27;	6911.5;	26-DEC-2009	18:55:39;	Dark	;	47.0;	34;	Gam2Vel	;	1.79;	23000;	occ;	94;	0;	40905
28;	7043.3;	26-DEC-2009	18:57:51;	Dark	;	47.5;	70;	Zet Pup	;	2.25;	39000;	occ;	95;	0;	40905

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2;	1143.0;	26-DEC-2009	19:00:07;	Dark	;	47.0;	117;	Pi Pup	;	2.71;	3800;	occ;	94;	0;	40906
3;	1319.0;	26-DEC-2009	19:03:03;	Dark	;	48.0;	23;	21Eps CMa	;	1.50;	26000;	occ;	96;	0;	40906
4;	1415.9;	26-DEC-2009	19:04:40;	Dark	;	46.5;	179;	240mi2CMa	;	3.03;	24000;	occ;	93;	0;	40906
5;	1572.6;	26-DEC-2009	19:07:16;	Dark	;	52.5;	1;	9Alp CMa	;	-1.44;	11000;	occ;	105;	0;	40906
6;	1724.9;	26-DEC-2009	19:09:49;	Dark	;	45.0;	56;	53Kap Ori	;	2.07;	30000;	occ;	90;	0;	40906
7;	1878.8;	26-DEC-2009	19:12:23;	Dark	;	44.5;	30;	46Eps Ori	;	1.69;	30000;	occ;	89;	0;	40906
8;	2039.8;	26-DEC-2009	19:15:04;	Dark	;	51.5;	14;	58Alp Ori	;	0.87;	3000;	occ;	103;	0;	40906
9;	2259.7;	26-DEC-2009	19:18:44;	Dark	;	63.0;	44;	24Gam Gem	;	1.93;	11000;	occ;	126;	0;	40906
10;	2406.2;	26-DEC-2009	19:21:10;	Bright;		38.5;	28;	12Bet Tau	;	1.65;	15200;	occ;	77;	0;	40906
11;	2590.0;	26-DEC-2009	19:24:14;	Bright;		40.0;	107;	37The Aur	;	2.65;	11000;	occ;	80;	0;	40906
12;	2701.7;	26-DEC-2009	19:26:06;	Bright;		43.5;	6;	13Alp Aur	;	0.08;	3400;	occ;	87;	0;	40906
13;	3643.7;	26-DEC-2009	19:41:48;	Bright;		46.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	92;	0;	40906
14;	3939.5;	26-DEC-2009	19:46:43;	Bright;		47.0;	32;	77Eps UMa	;	1.76;	11000;	occ;	94;	0;	40906
15;	4121.9;	26-DEC-2009	19:49:46;	Bright;		41.5;	39;	85Eta UMa	;	1.85;	24000;	occ;	83;	0;	40906
16;	4349.6;	26-DEC-2009	19:53:33;	Bright;		41.5;	180;	27Gam Boo	;	3.04;	8000;	occ;	83;	0;	40906
17;	4559.5;	26-DEC-2009	19:57:03;	Bright;		39.0;	83;		;	2.38;	11000;	occ;	78;	0;	40906
18;	4788.4;	26-DEC-2009	20:00:52;	Bright;		70.0;	111;	8Eta Boo	;	2.68;	6000;	occ;	140;	0;	40906
19;	5313.6;	26-DEC-2009	20:09:37;	Dark	;	46.5;	122;	9Alp2Lib	;	2.75;	9700;	occ;	93;	0;	40906
20;	5467.1;	26-DEC-2009	20:12:11;	Dark	;	59.0;	15;	67Alp Vir	;	0.98;	28000;	occ;	118;	0;	40906
21;	5717.3;	26-DEC-2009	20:16:21;	Dark	;	44.5;	54;	5The Cen	;	2.06;	4500;	occ;	89;	0;	40906
22;	5843.9;	26-DEC-2009	20:18:28;	Dark	;	46.0;	123;	Iot Cen	;	2.75;	10200;	occ;	92;	0;	40906
23;	6084.1;	26-DEC-2009	20:22:28;	Dark	;	44.5;	64;	Gam Cen	;	2.20;	10600;	occ;	89;	0;	40906
24;	6178.3;	26-DEC-2009	20:24:02;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	40906
25;	6445.7;	26-DEC-2009	20:28:30;	Dark	;	46.0;	113;	Mu Vel	;	2.69;	5000;	occ;	92;	0;	40906
26;	6625.1;	26-DEC-2009	20:31:29;	Dark	;	42.0;	71;	Iot Car	;	2.25;	7700;	occ;	84;	0;	40906
27;	6727.3;	26-DEC-2009	20:33:11;	Dark	;	53.0;	41;	Eps Car	;	1.86;	4100;	occ;	106;	0;	40906
28;	6912.0;	26-DEC-2009	20:36:16;	Dark	;	21.0;	34;	Gam2Vel	;	1.79;	23000;	occ;	42;	0;	40906

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2;	-1914.6;	27-DEC-2009	02:32:09;	Bright;		63.0;	39;	85Eta UMa	;	1.85;	24000;	occ;	126;	0;	40910
3;	-1686.3;	27-DEC-2009	02:35:57;	Bright;		59.0;	180;	27Gam Boo	;	3.04;	8000;	occ;	118;	0;	40910
4;	-1475.9;	27-DEC-2009	02:39:27;	Bright;		58.0;	83;		;	2.38;	11000;	occ;	116;	0;	40910
5;	-1246.0;	27-DEC-2009	02:43:17;	Bright;		48.0;	111;	8Eta Boo	;	2.68;	6000;	occ;	96;	0;	40910
6;	-720.5;	27-DEC-2009	02:52:03;	Dark	;	43.0;	122;	9Alp2Lib	;	2.75;	9700;	occ;	86;	0;	40910
7;	-564.4;	27-DEC-2009	02:54:39;	Dark	;	58.0;	15;	67Alp Vir	;	0.98;	28000;	occ;	116;	0;	40910
8;	-316.2;	27-DEC-2009	02:58:47;	Dark	;	51.5;	54;	5The Cen	;	2.06;	4500;	occ;	103;	0;	40910
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19; 1417.1; 27-DEC-2009 03:27:40; Dark ; 47.0; 179; 240mi2CMA ; 3.03; 24000;occ; 94; 0;40911
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23; 2039.2; 27-DEC-2009 03:38:02; Dark ; 56.0; 14; 58Alp Ori ; 0.87; 3000;occ; 112; 0;40911
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25; 2405.4; 27-DEC-2009 03:44:09; Bright; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;40911
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6; -718.9; 27-DEC-2009 07:53:52; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;40913
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11; 148.7; 27-DEC-2009 08:08:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40914
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13; 593.2; 27-DEC-2009 08:15:44; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;40914
14; 694.7; 27-DEC-2009 08:17:26; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;40914
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17; 1146.5; 27-DEC-2009 08:24:58; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;40914
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19; 1417.9; 27-DEC-2009 08:29:29; Dark ; 47.0; 179; 240mi2CMA ; 3.03; 24000;occ; 94; 0;40914
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21; 6452.8; 27-DEC-2009 09:53:24; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40914
22; 6629.7; 27-DEC-2009 09:56:21; Dark ; 48.5; 71; Iot Car ; 2.25; 7700;occ; 97; 0;40914
23; 6731.2; 27-DEC-2009 09:58:02; Dark ; 56.0; 41; Eps Car ; 1.86; 4100;occ; 112; 0;40914
24; 6916.6; 27-DEC-2009 10:01:08; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;40914
25; 7048.2; 27-DEC-2009 10:03:20; Dark ; 48.0; 70; Zet Pup ; 2.25; 39000;occ; 96; 0;40914
26; 7182.8; 27-DEC-2009 10:05:34; Dark ; 50.5; 117; Pi Pup ; 2.71; 3800;occ; 101; 0;40914
27; 7357.6; 27-DEC-2009 10:08:29; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;40914

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