

# GOMOS Daily Report 17-DEC-2010

## Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	20DEC2010 05:00:53
Data source version	GOMOS/5.01
Start time of products	17DEC2010 00:07:14
Stop time of products	17DEC2010 23:57:48
Store outputs in DB	Yes
Nb of level 1b prods	155
Nb of prods with errors	2

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

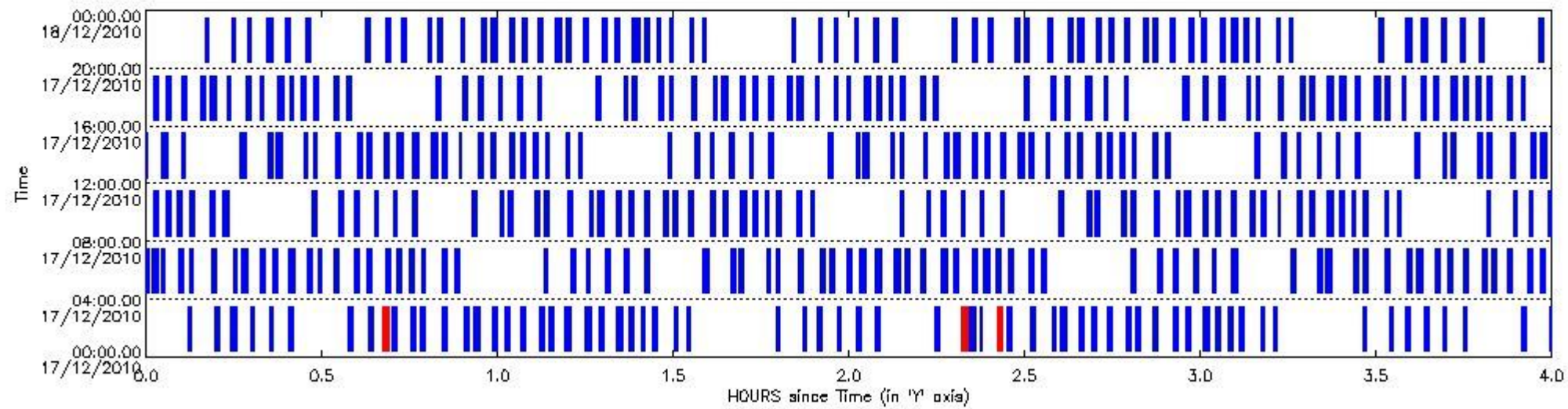
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
17-DEC-2010 00:40:20	9BetCrv	106	45993
17-DEC-2010 02:19:18	7DelCrv	163	45994
17-DEC-2010 02:25:19	GamCen	64	45994

### 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_1PNPDE20101217_000714_000000333097_00289_45993_7192.N1	17-DEC-2010 00:07:14	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	45993	No
2	GOM_TRA_1PNPDE20101217_001148_000000413097_00289_45993_7193.N1	17-DEC-2010 00:11:48	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	45993	No
3	GOM_TRA_1PNPDE20101217_001425_000000593097_00289_45993_7194.N1	17-DEC-2010 00:14:25	Bright	59.000	39	85Eta UMa	1.8540	24000.	118	45993	No
4	GOM_TRA_1PNPDE20101217_001747_000000413097_00289_45993_7195.N1	17-DEC-2010 00:17:47	Bright	40.500	180	27Gam Boo	3.0400	8000.0	81	45993	No
5	GOM_TRA_1PNPDE20101217_002100_000000383097_00289_45993_7196.N1	17-DEC-2010 00:21:00	Bright	37.500	83		2.3780	11000.	75	45993	No
6	GOM_TRA_1PNPDE20101217_002421_000000413097_00289_45993_7197.N1	17-DEC-2010 00:24:21	Bright	40.500	111	8Eta Boo	2.6800	6000.0	81	45993	No
7	GOM_TRA_1PNPDE20101217_003421_000000573097_00289_45993_7201.N1	17-DEC-2010 00:34:21	Twilight_stray	57.000	15	67Alp Vir	0.97600	28000.	114	45993	No
8	GOM_TRA_1PNPDE20101217_003750_000000473097_00289_45993_7202.N1	17-DEC-2010 00:37:50	Dark	47.000	169	46Gam Hya	2.9910	4700.0	94	45993	No

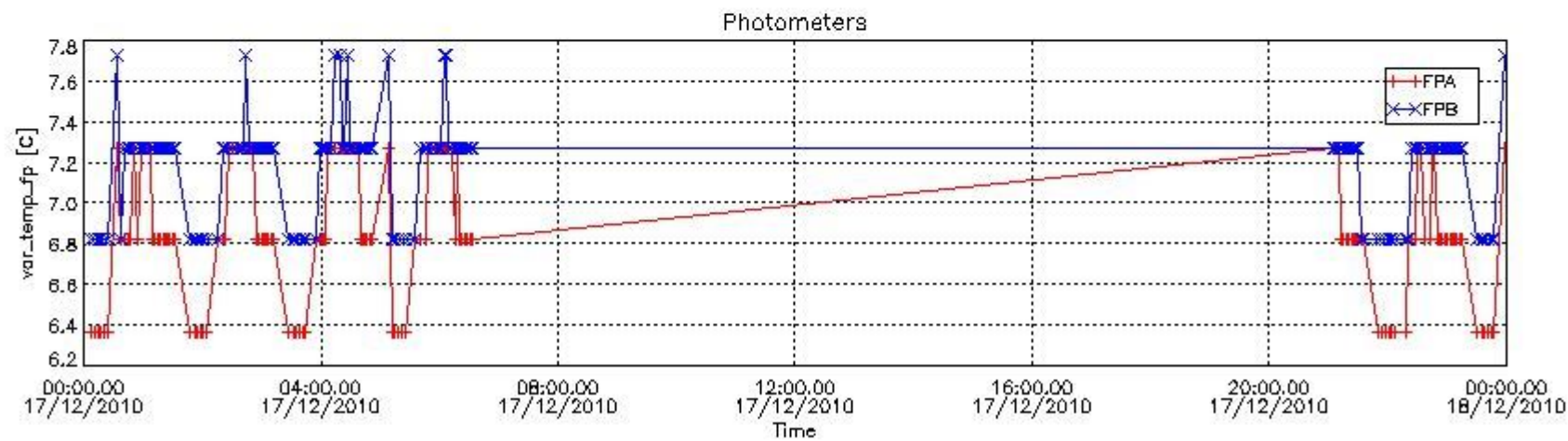
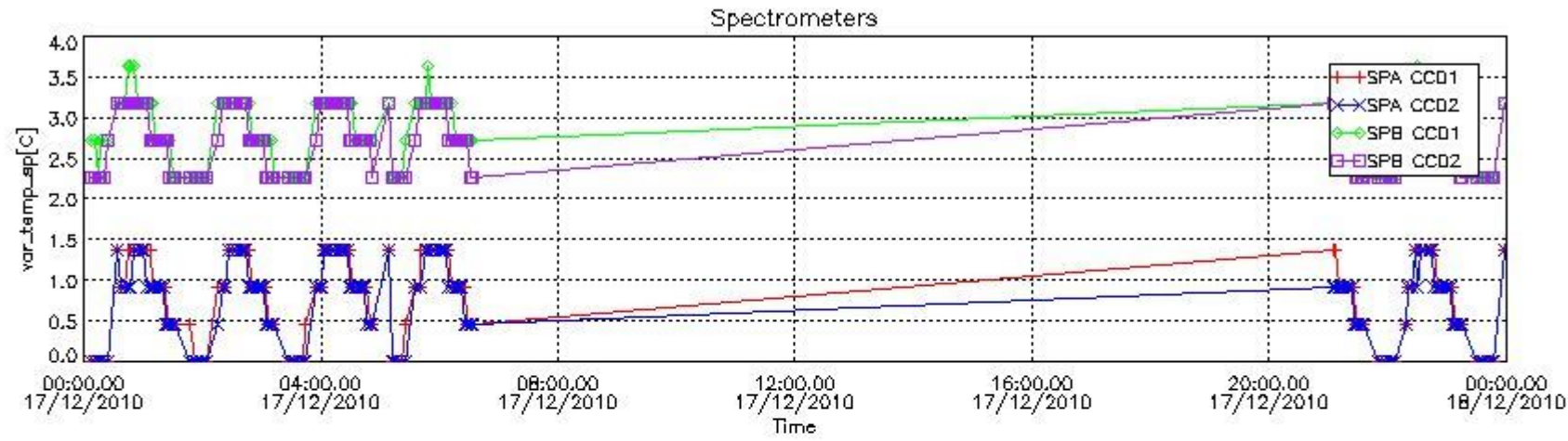
9	GOM_TRA_1PNPDE20101217_004202_000000353097_00289_45993_7203.N1	17-DEC-2010 00:42:02	Dark	35.000	171	2Eps Crv	3.0010	4250.0	70	45993	No
10	GOM_TRA_1PNPDE20101217_004508_000000433097_00289_45993_7204.N1	17-DEC-2010 00:45:08	Dark	43.000	64	Gam Cen	2.2000	10600.	86	45993	No
11	GOM_TRA_1PNPDE20101217_004646_000000443097_00290_45994_7205.N1	17-DEC-2010 00:46:46	Dark	44.000	99	Del Cen	2.5750	26000.	88	45994	No
12	GOM_TRA_1PNPDE20101217_005038_000000473097_00290_45994_7206.N1	17-DEC-2010 00:50:38	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	45994	No
13	GOM_TRA_1PNPDE20101217_005422_000000423097_00290_45994_7207.N1	17-DEC-2010 00:54:22	Dark	41.500	71	lot Car	2.2460	7700.0	83	45994	No
14	GOM_TRA_1PNPDE20101217_005901_000000483097_00290_45994_7208.N1	17-DEC-2010 00:59:01	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	45994	No
15	GOM_TRA_1PNPDE20101217_010108_000000533097_00290_45994_7209.N1	17-DEC-2010 01:01:08	Dark	52.500	70	Zet Pup	2.2460	39000.	105	45994	No
16	GOM_TRA_1PNPDE20101217_010349_000000553097_00290_45994_7210.N1	17-DEC-2010 01:03:49	Dark	54.500	117	Pi Pup	2.7060	3800.0	109	45994	No
17	GOM_TRA_1PNPDE20101217_010701_000000533097_00290_45994_7211.N1	17-DEC-2010 01:07:01	Straylight	52.500	23	21Eps CMa	1.5020	26000.	105	45994	No
18	GOM_TRA_1PNPDE20101217_010847_000000393097_00290_45994_7212.N1	17-DEC-2010 01:08:47	Straylight	39.000	179	24Omi2CMa	3.0320	24000.	78	45994	No
19	GOM_TRA_1PNPDE20101217_011130_000000513097_00290_45994_7213.N1	17-DEC-2010 01:11:30	Straylight	51.000	47	2Bet CMa	1.9760	28000.	102	45994	No
20	GOM_TRA_1PNPDE20101217_011501_000000503097_00290_45994_7214.N1	17-DEC-2010 01:15:01	Straylight	50.000	7	19Bet Ori	0.10000	14000.	100	45994	No
21	GOM_TRA_1PNPDE20101217_011714_000000483097_00290_45994_7215.N1	17-DEC-2010 01:17:14	Straylight	47.500	30	46Eps Ori	1.6940	30000.	95	45994	No
22	GOM_TRA_1PNPDE20101217_012019_000000593097_00290_45994_7216.N1	17-DEC-2010 01:20:19	Tw_i_and_stray	58.500	14	58Alp Ori	0.87000	3000.0	117	45994	No
23	GOM_TRA_1PNPDE20101217_012219_000000513097_00290_45994_7217.N1	17-DEC-2010 01:22:19	Tw_i_and_stray	51.000	13	87Alp Tau	0.86700	3800.0	102	45994	No
24	GOM_TRA_1PNPDE20101217_012427_000000453097_00290_45994_7218.N1	17-DEC-2010 01:24:27	Bright	44.500	176	23Zet Tau	3.0200	22000.	89	45994	No
25	GOM_TRA_1PNPDE20101217_012630_000000443097_00290_45994_7219.N1	17-DEC-2010 01:26:30	Bright	44.000	28	12Bet Tau	1.6500	15200.	88	45994	No
26	GOM_TRA_1PNPDE20101217_013002_000000463097_00290_45994_7220.N1	17-DEC-2010 01:30:02	Bright	46.000	107	37The Aur	2.6490	11000.	92	45994	No
27	GOM_TRA_1PNPDE20101217_013213_000000453097_00290_45994_7221.N1	17-DEC-2010 01:32:13	Bright	45.000	42	34Bet Aur	1.9000	10200.	90	45994	No
28	GOM_TRA_1PNPDE20101217_014728_000000383097_00290_45994_7222.N1	17-DEC-2010 01:47:28	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	45994	No
29	GOM_TRA_1PNPDE20101217_015201_000000443097_00290_45994_7223.N1	17-DEC-2010 01:52:01	Bright	43.500	32	77Eps UMa	1.7630	11000.	87	45994	No
30	GOM_TRA_1PNPDE20101217_015438_000000433097_00290_45994_7224.N1	17-DEC-2010 01:54:38	Bright	43.000	39	85Eta UMa	1.8540	24000.	86	45994	No
31	GOM_TRA_1PNPDE20101217_015801_000000373097_00290_45994_7225.N1	17-DEC-2010 01:58:01	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	45994	No
32	GOM_TRA_1PNPDE20101217_020114_000000433097_00290_45994_7226.N1	17-DEC-2010 02:01:14	Bright	43.000	83		2.3780	11000.	86	45994	No
33	GOM_TRA_1PNPDE20101217_020435_000000423097_00290_45994_7227.N1	17-DEC-2010 02:04:35	Bright	42.000	111	8Eta Boo	2.6800	6000.0	84	45994	No
34	GOM_TRA_1PNPDE20101217_021436_000000533097_00290_45994_7217.N1	17-DEC-2010 02:14:36	Tw_i_and_stray	52.500	15	67Alp Vir	0.97600	28000.	105	45994	No
35	GOM_TRA_1PNPDE20101217_022039_000000583097_00290_45994_7218.N1	17-DEC-2010 02:20:39	Dark	57.500	106	9Bet Crv	2.6480	5600.0	115	45994	No
36	GOM_TRA_1PNPDE20101217_022218_000000293097_00290_45994_7219.N1	17-DEC-2010 02:22:18	Dark	29.000	171	2Eps Crv	3.0010	4250.0	58	45994	No
37	GOM_TRA_1PNPDE20101217_022701_000000473097_00291_45995_7220.N1	17-DEC-2010 02:27:01	Dark	46.500	99	Del Cen	2.5750	26000.	93	45995	No
38	GOM_TRA_1PNPDE20101217_023053_000000473097_00291_45995_7221.N1	17-DEC-2010 02:30:53	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	45995	No
39	GOM_TRA_1PNPDE20101217_023436_000000423097_00291_45995_7222.N1	17-DEC-2010 02:34:36	Dark	41.500	71	lot Car	2.2460	7700.0	83	45995	No
40	GOM_TRA_1PNPDE20101217_023916_000000523097_00291_45995_7223.N1	17-DEC-2010 02:39:16	Dark	52.000	34	Gam2Vel	1.7930	23000.	104	45995	No
41	GOM_TRA_1PNPDE20101217_024123_000000533097_00291_45995_7224.N1	17-DEC-2010 02:41:23	Dark	52.500	70	Zet Pup	2.2460	39000.	105	45995	No
42	GOM_TRA_1PNPDE20101217_024403_000000543097_00291_45995_7225.N1	17-DEC-2010 02:44:03	Dark	54.000	117	Pi Pup	2.7060	3800.0	108	45995	No
43	GOM_TRA_1PNPDE20101217_024716_000000543097_00291_45995_7226.N1	17-DEC-2010 02:47:16	Straylight	53.500	23	21Eps CMa	1.5020	26000.	107	45995	No
44	GOM_TRA_1PNPDE20101217_024902_000000393097_00291_45995_7227.N1	17-DEC-2010 02:49:02	Straylight	39.000	179	24Omi2CMa	3.0320	24000.	78	45995	No
45	GOM_TRA_1PNPDE20101217_025144_000000533097_00291_45995_7228.N1	17-DEC-2010 02:51:44	Straylight	52.500	47	2Bet CMa	1.9760	28000.	105	45995	No
46	GOM_TRA_1PNPDE20101217_025515_000000523097_00291_45995_7229.N1	17-DEC-2010 02:55:15	Straylight	51.500	7	19Bet Ori	0.10000	14000.	103	45995	No
47	GOM_TRA_1PNPDE20101217_025728_000000473097_00291_45995_7230.N1	17-DEC-2010 02:57:28	Straylight	47.000	30	46Eps Ori	1.6940	30000.	94	45995	No
48	GOM_TRA_1PNPDE20101217_030032_000000573097_00291_45995_7231.N1	17-DEC-2010 03:00:32	Tw_i_and_stray	57.000	14	58Alp Ori	0.87000	3000.0	114	45995	No
49	GOM_TRA_1PNPDE20101217_030233_000000483097_00291_45995_7232.N1	17-DEC-2010 03:02:33	Tw_i_and_stray	48.000	13	87Alp Tau	0.86700	3800.0	96	45995	No
50	GOM_TRA_1PNPDE20101217_030441_000000443097_00291_45995_7233.N1	17-DEC-2010 03:04:41	Bright	44.000	176	23Zet Tau	3.0200	22000.	88	45995	No
51	GOM_TRA_1PNPDE20101217_030644_000000433097_00291_45995_7234.N1	17-DEC-2010 03:06:44	Bright	43.000	28	12Bet Tau	1.6500	15200.	86	45995	No
52	GOM_TRA_1PNPDE20101217_031016_000000443097_00291_45995_7235.N1	17-DEC-2010 03:10:16	Bright	44.000	107	37The Aur	2.6490	11000.	88	45995	No
53	GOM_TRA_1PNPDE20101217_031226_000000423097_00291_45995_7236.N1	17-DEC-2010 03:12:26	Bright	42.000	42	34Bet Aur	1.9000	10200.	84	45995	No
54	GOM_TRA_1PNPDE20101217_032742_000000373097_00291_45995_7240.N1	17-DEC-2010 03:27:42	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	45995	No
55	GOM_TRA_1PNPDE20101217_033215_000000443097_00291_45995_7241.N1	17-DEC-2010 03:32:15	Bright	44.000	32	77Eps UMa	1.7630	11000.	88	45995	No
56	GOM_TRA_1PNPDE20101217_033452_000000593097_00291_45995_7242.N1	17-DEC-2010 03:34:52	Bright	59.000	39	85Eta UMa	1.8540	24000.	118	45995	No
57	GOM_TRA_1PNPDE20101217_033815_000000423097_00291_45995_7243.N1	17-DEC-2010 03:38:15	Bright	41.500	180	27Gam Boo	3.0400	8000.0	83	45995	No
58	GOM_TRA_1PNPDE20101217_034129_000000373097_00291_45995_7244.N1	17-DEC-2010 03:41:29	Bright	36.500	83		2.3780	11000.	73	45995	No
59	GOM_TRA_1PNPDE20101217_034449_000000413097_00291_45995_7245.N1	17-DEC-2010 03:44:49	Bright	41.000	111	8Eta Boo	2.6800	6000.0	82	45995	No
60	GOM_TRA_1PNPDE20101217_035450_000000513097_00291_45995_7246.N1	17-DEC-2010 03:54:50	Tw_i_and_stray	51.000	15	67Alp Vir	0.97600	28000.	102	45995	No
61	GOM_TRA_1PNPDE20101217_035936_000000553097_00291_45995_7247.N1	17-DEC-2010 03:59:36	Dark	54.500	163	7Del Crv	2.9450	11000.	109	45995	No
62	GOM_TRA_1PNPDE20101217_040054_000000603097_00291_45995_7248.N1	17-DEC-2010 04:00:54	Dark	60.000	106	9Bet Crv	2.6480	5600.0	120	45995	No
63	GOM_TRA_1PNPDE20101217_040233_000000293097_00291_45995_7249.N1	17-DEC-2010 04:02:33	Dark	29.000	171	2Eps Crv	3.0010	4250.0	58	45995	No
64	GOM_TRA_1PNPDE20101217_040537_000000433097_00291_45995_7250.N1	17-DEC-2010 04:05:37	Dark	43.000	64	Gam Cen	2.2000	10600.	86	45995	No
65	GOM_TRA_1PNPDE20101217_040716_000000413097_00292_45996_7251.N1	17-DEC-2010 04:07:16	Dark	40.500	99	Del Cen	2.5750	26000.	81	45996	No
66	GOM_TRA_1PNPDE20101217_041108_000000473097_00292_45996_7252.N1	17-DEC-2010 04:11:08	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	45996	No
67	GOM_TRA_1PNPDE20101217_041451_000000433097_00292_45996_7253.N1	17-DEC-2010 04:14:51	Dark	42.500	71	lot Car	2.2460	7700.0	85	45996	No



68	GOM_TRA_1PNPDE20101217_041931_000000473097_00292_45996_7254.N1	17-DEC-2010 04:19:31	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	45996	No
69	GOM_TRA_1PNPDE20101217_042138_000000523097_00292_45996_7255.N1	17-DEC-2010 04:21:38	Dark	51.500	70	Zet Pup	2.2460	39000.	103	45996	No
70	GOM_TRA_1PNPDE20101217_042418_000000563097_00292_45996_7256.N1	17-DEC-2010 04:24:18	Dark	55.500	117	Pi Pup	2.7060	3800.0	111	45996	No
71	GOM_TRA_1PNPDE20101217_042730_000000543097_00292_45996_7257.N1	17-DEC-2010 04:27:30	Straylight	53.500	23	21Eps CMa	1.5020	26000.	107	45996	No
72	GOM_TRA_1PNPDE20101217_042916_000000443097_00292_45996_7258.N1	17-DEC-2010 04:29:16	Straylight	44.000	179	24Omi2CMa	3.0320	24000.	88	45996	No
73	GOM_TRA_1PNPDE20101217_043159_000000503097_00292_45996_7259.N1	17-DEC-2010 04:31:59	Straylight	49.500	47	2Bet CMa	1.9760	28000.	99	45996	No
74	GOM_TRA_1PNPDE20101217_043530_000000543097_00292_45996_7260.N1	17-DEC-2010 04:35:30	Straylight	53.500	7	19Bet Ori	0.10000	14000.	107	45996	No
75	GOM_TRA_1PNPDE20101217_043742_000000483097_00292_45996_7261.N1	17-DEC-2010 04:37:42	Straylight	47.500	30	46Eps Ori	1.6940	30000.	95	45996	No
76	GOM_TRA_1PNPDE20101217_044046_000000603097_00292_45996_7262.N1	17-DEC-2010 04:40:46	Twi_and_stray	60.000	14	58Alp Ori	0.87000	3000.0	120	45996	No
77	GOM_TRA_1PNPDE20101217_044247_000000483097_00292_45996_7263.N1	17-DEC-2010 04:42:47	Twi_and_stray	48.000	13	87Alp Tau	0.86700	3800.0	96	45996	No
78	GOM_TRA_1PNPDE20101217_044455_000000443097_00292_45996_7264.N1	17-DEC-2010 04:44:55	Bright	43.500	176	23Zet Tau	3.0200	22000.	87	45996	No
79	GOM_TRA_1PNPDE20101217_044658_000000443097_00292_45996_7265.N1	17-DEC-2010 04:46:58	Bright	43.500	28	12Bet Tau	1.6500	15200.	87	45996	No
80	GOM_TRA_1PNPDE20101217_045029_000000453097_00292_45996_7266.N1	17-DEC-2010 04:50:29	Bright	45.000	107	37The Aur	2.6490	11000.	90	45996	No
81	GOM_TRA_1PNPDE20101217_045240_000000443097_00292_45996_7267.N1	17-DEC-2010 04:52:40	Bright	44.000	42	34Bet Aur	1.9000	10200.	88	45996	No
82	GOM_TRA_1PNPDE20101217_050756_000000363097_00292_45996_7260.N1	17-DEC-2010 05:07:56	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	45996	Yes
83	GOM_TRA_1PNPDE20101217_051229_000000433097_00292_45996_7261.N1	17-DEC-2010 05:12:29	Bright	43.000	32	77Eps UMa	1.7630	11000.	86	45996	No
84	GOM_TRA_1PNPDE20101217_051506_000000393097_00292_45996_7262.N1	17-DEC-2010 05:15:06	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	45996	No
85	GOM_TRA_1PNPDE20101217_051829_000000403097_00292_45996_7263.N1	17-DEC-2010 05:18:29	Bright	39.500	180	27Gam Boo	3.0400	8000.0	79	45996	No
86	GOM_TRA_1PNPDE20101217_052143_000000373097_00292_45996_7264.N1	17-DEC-2010 05:21:43	Bright	36.500	83		2.3780	11000.	73	45996	No
87	GOM_TRA_1PNPDE20101217_052504_000000433097_00292_45996_7265.N1	17-DEC-2010 05:25:04	Bright	42.500	111	8Eta Boo	2.6800	6000.0	85	45996	No
88	GOM_TRA_1PNPDE20101217_053505_000000573097_00292_45996_7266.N1	17-DEC-2010 05:35:05	Twi_and_stray	57.000	15	67Alp Vir	0.97600	28000.	114	45996	No
89	GOM_TRA_1PNPDE20101217_053952_000000483097_00292_45996_7267.N1	17-DEC-2010 05:39:52	Dark	48.000	163	7Del Crv	2.9450	11000.	96	45996	No
90	GOM_TRA_1PNPDE20101217_054109_000000563097_00292_45996_7268.N1	17-DEC-2010 05:41:09	Dark	55.500	106	9Bet Crv	2.6480	5600.0	111	45996	No
91	GOM_TRA_1PNPDE20101217_054552_000000453097_00292_45996_7269.N1	17-DEC-2010 05:45:52	Dark	44.500	64	Gam Cen	2.2000	10600.	89	45996	No
92	GOM_TRA_1PNPDE20101217_054730_000000413097_00293_45997_7270.N1	17-DEC-2010 05:47:30	Dark	40.500	99	Del Cen	2.5750	26000.	81	45997	No
93	GOM_TRA_1PNPDE20101217_055123_000000483097_00293_45997_7271.N1	17-DEC-2010 05:51:23	Dark	47.500	113	Mu Vel	2.6920	5000.0	95	45997	No
94	GOM_TRA_1PNPDE20101217_055506_000000433097_00293_45997_7272.N1	17-DEC-2010 05:55:06	Dark	43.000	71	lot Car	2.2460	7700.0	86	45997	No
95	GOM_TRA_1PNPDE20101217_055945_000000493097_00293_45997_7273.N1	17-DEC-2010 05:59:45	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	45997	No
96	GOM_TRA_1PNPDE20101217_060153_000000543097_00293_45997_7274.N1	17-DEC-2010 06:01:53	Dark	53.500	70	Zet Pup	2.2460	39000.	107	45997	No
97	GOM_TRA_1PNPDE20101217_060433_000000533097_00293_45997_7275.N1	17-DEC-2010 06:04:33	Dark	52.500	117	Pi Pup	2.7060	3800.0	105	45997	No
98	GOM_TRA_1PNPDE20101217_060745_000000523097_00293_45997_7276.N1	17-DEC-2010 06:07:45	Straylight	52.000	23	21Eps CMa	1.5020	26000.	104	45997	No
99	GOM_TRA_1PNPDE20101217_060930_000000443097_00293_45997_7277.N1	17-DEC-2010 06:09:30	Straylight	44.000	179	24Omi2CMa	3.0320	24000.	88	45997	No
100	GOM_TRA_1PNPDE20101217_061213_000000523097_00293_45997_7278.N1	17-DEC-2010 06:12:13	Straylight	51.500	47	2Bet CMa	1.9760	28000.	103	45997	No
101	GOM_TRA_1PNPDE20101217_061544_000000563097_00293_45997_7279.N1	17-DEC-2010 06:15:44	Straylight	56.000	7	19Bet Ori	0.10000	14000.	112	45997	No
102	GOM_TRA_1PNPDE20101217_061756_000000493097_00293_45997_7280.N1	17-DEC-2010 06:17:56	Straylight	48.500	30	46Eps Ori	1.6940	30000.	97	45997	No
103	GOM_TRA_1PNPDE20101217_062100_000000603097_00293_45997_7281.N1	17-DEC-2010 06:21:00	Twi_and_stray	59.500	14	58Alp Ori	0.87000	3000.0	119	45997	No
104	GOM_TRA_1PNPDE20101217_062301_000000543097_00293_45997_7282.N1	17-DEC-2010 06:23:01	Twi_and_stray	54.000	13	87Alp Tau	0.86700	3800.0	108	45997	No
105	GOM_TRA_1PNPDE20101217_062509_000000433097_00293_45997_7283.N1	17-DEC-2010 06:25:09	Bright	43.000	176	23Zet Tau	3.0200	22000.	86	45997	No
106	GOM_TRA_1PNPDE20101217_062712_000000433097_00293_45997_7284.N1	17-DEC-2010 06:27:12	Bright	43.000	28	12Bet Tau	1.6500	15200.	86	45997	No
107	GOM_TRA_1PNPDE20101217_063043_000000443097_00293_45997_7285.N1	17-DEC-2010 06:30:43	Bright	43.500	107	37The Aur	2.6490	11000.	87	45997	No
108	GOM_TRA_1PNPDE20101217_063254_000000423097_00293_45997_7286.N1	17-DEC-2010 06:32:54	Bright	41.500	42	34Bet Aur	1.9000	10200.	83	45997	No
109	GOM_TRA_1PNPDE20101217_210406_000000493097_00302_46006_7404.N1	17-DEC-2010 21:04:06	Dark	48.500	70	Zet Pup	2.2460	39000.	97	46006	No
110	GOM_TRA_1PNPDE20101217_210644_000000573097_00302_46006_7405.N1	17-DEC-2010 21:06:44	Dark	57.000	117	Pi Pup	2.7060	3800.0	114	46006	No
111	GOM_TRA_1PNPDE20101217_210955_000000533097_00302_46006_7406.N1	17-DEC-2010 21:09:55	Straylight	53.000	23	21Eps CMa	1.5020	26000.	106	46006	No
112	GOM_TRA_1PNPDE20101217_211140_000000543097_00302_46006_7407.N1	17-DEC-2010 21:11:40	Straylight	54.000	179	24Omi2CMa	3.0320	24000.	108	46006	No
113	GOM_TRA_1PNPDE20101217_211437_000000423097_00302_46006_7408.N1	17-DEC-2010 21:14:37	Straylight	42.000	1	9Alp CMa	-1.4400	11000.	84	46006	No
114	GOM_TRA_1PNPDE20101217_211751_000000473097_00302_46006_7409.N1	17-DEC-2010 21:17:51	Straylight	46.500	7	19Bet Ori	0.10000	14000.	93	46006	No
115	GOM_TRA_1PNPDE20101217_212001_000000473097_00302_46006_7410.N1	17-DEC-2010 21:20:01	Straylight	47.000	30	46Eps Ori	1.6940	30000.	94	46006	No
116	GOM_TRA_1PNPDE20101217_212304_000000653097_00302_46006_7411.N1	17-DEC-2010 21:23:04	Twi_and_stray	65.000	14	58Alp Ori	0.87000	3000.0	130	46006	No
117	GOM_TRA_1PNPDE20101217_212507_000000463097_00302_46006_7412.N1	17-DEC-2010 21:25:07	Twi_and_stray	46.000	13	87Alp Tau	0.86700	3800.0	92	46006	No
118	GOM_TRA_1PNPDE20101217_212711_000000423097_00302_46006_7413.N1	17-DEC-2010 21:27:11	Bright	41.500	176	23Zet Tau	3.0200	22000.	83	46006	No
119	GOM_TRA_1PNPDE20101217_212915_000000423097_00302_46006_7414.N1	17-DEC-2010 21:29:15	Bright	41.500	28	12Bet Tau	1.6500	15200.	83	46006	No
120	GOM_TRA_1PNPDE20101217_213244_000000453097_00302_46006_7415.N1	17-DEC-2010 21:32:44	Bright	44.500	107	37The Aur	2.6490	11000.	89	46006	No
121	GOM_TRA_1PNPDE20101217_213455_000000423097_00302_46006_7416.N1	17-DEC-2010 21:34:55	Bright	42.000	42	34Bet Aur	1.9000	10200.	84	46006	No
122	GOM_TRA_1PNPDE20101217_215017_000000383097_00302_46006_7417.N1	17-DEC-2010 21:50:17	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	46006	No
123	GOM_TRA_1PNPDE20101217_215447_000000423097_00302_46006_7418.N1	17-DEC-2010 21:54:47	Bright	41.500	32	77Eps UMa	1.7630	11000.	83	46006	No
124	GOM_TRA_1PNPDE20101217_215726_000000393097_00302_46006_7419.N1	17-DEC-2010 21:57:26	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	46006	No
125	GOM_TRA_1PNPDE20101217_220050_000000393097_00302_46006_7420.N1	17-DEC-2010 22:00:50	Bright	38.500	180	27Gam Boo	3.0400	8000.0	77	46006	No
126	GOM_TRA_1PNPDE20101217_220405_000000553097_00302_46006_7421.N1	17-DEC-2010 22:04:05	Bright	55.000	83		2.3780	11000.	110	46006	No

127	GOM_TRA_1PNPDE20101217_220727_000000423097_00302_46006_7422.N1	17-DEC-2010 22:07:27	Bright	42.000	111	8Eta Boo	2.6800	6000.0	84	46006	No
128	GOM_TRA_1PNPDE20101217_221733_000000553097_00302_46006_7400.N1	17-DEC-2010 22:17:33	Twilight_stray	54.500	15	67Alp Vir	0.97600	28000.	109	46006	No
129	GOM_TRA_1PNPDE20101217_222103_000000463097_00302_46006_7401.N1	17-DEC-2010 22:21:03	Dark	46.000	169	46Gam Hya	2.9910	4700.0	92	46006	No
130	GOM_TRA_1PNPDE20101217_222341_000000513097_00302_46006_7402.N1	17-DEC-2010 22:23:41	Dark	50.500	106	9Bet Crv	2.6480	5600.0	101	46006	No
131	GOM_TRA_1PNPDE20101217_222819_000000413097_00302_46006_7403.N1	17-DEC-2010 22:28:19	Dark	41.000	64	Gam Cen	2.2000	10600.	82	46006	No
132	GOM_TRA_1PNPDE20101217_222958_000000423097_00303_46007_7404.N1	17-DEC-2010 22:29:58	Dark	41.500	99	Del Cen	2.5750	26000.	83	46007	No
133	GOM_TRA_1PNPDE20101217_223353_000000463097_00303_46007_7405.N1	17-DEC-2010 22:33:53	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	46007	No
134	GOM_TRA_1PNPDE20101217_223732_000000433097_00303_46007_7406.N1	17-DEC-2010 22:37:32	Dark	42.500	71	lot Car	2.2460	7700.0	85	46007	No
135	GOM_TRA_1PNPDE20101217_224213_000000463097_00303_46007_7407.N1	17-DEC-2010 22:42:13	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	46007	No
136	GOM_TRA_1PNPDE20101217_224421_000000533097_00303_46007_7408.N1	17-DEC-2010 22:44:21	Dark	53.000	70	Zet Pup	2.2460	39000.	106	46007	No
137	GOM_TRA_1PNPDE20101217_224659_000000533097_00303_46007_7409.N1	17-DEC-2010 22:46:59	Dark	52.500	117	Pi Pup	2.7060	3800.0	105	46007	No
138	GOM_TRA_1PNPDE20101217_225009_000000523097_00303_46007_7410.N1	17-DEC-2010 22:50:09	Straylight	52.000	23	21Eps CMa	1.5020	26000.	104	46007	No
139	GOM_TRA_1PNPDE20101217_225154_000000543097_00303_46007_7411.N1	17-DEC-2010 22:51:54	Straylight	53.500	179	24Omi2CMa	3.0320	24000.	107	46007	No
140	GOM_TRA_1PNPDE20101217_225451_000000423097_00303_46007_7412.N1	17-DEC-2010 22:54:51	Straylight	42.000	1	9Alp CMa	-1.4400	11000.	84	46007	No
141	GOM_TRA_1PNPDE20101217_225805_000000493097_00303_46007_7413.N1	17-DEC-2010 22:58:05	Straylight	49.000	7	19Bet Ori	0.10000	14000.	98	46007	No
142	GOM_TRA_1PNPDE20101217_230015_000000503097_00303_46007_7414.N1	17-DEC-2010 23:00:15	Straylight	49.500	30	46Eps Ori	1.6940	30000.	99	46007	No
143	GOM_TRA_1PNPDE20101217_230317_000000563097_00303_46007_7415.N1	17-DEC-2010 23:03:17	Twilight_stray	55.500	14	58Alp Ori	0.87000	3000.0	111	46007	No
144	GOM_TRA_1PNPDE20101217_230521_000000543097_00303_46007_7416.N1	17-DEC-2010 23:05:21	Twilight_stray	54.000	13	87Alp Tau	0.86700	3800.0	108	46007	No
145	GOM_TRA_1PNPDE20101217_230725_000000413097_00303_46007_7417.N1	17-DEC-2010 23:07:25	Bright	40.500	176	23Zet Tau	3.0200	22000.	81	46007	No
146	GOM_TRA_1PNPDE20101217_230928_000000453097_00303_46007_7418.N1	17-DEC-2010 23:09:28	Bright	45.000	28	12Bet Tau	1.6500	15200.	90	46007	No
147	GOM_TRA_1PNPDE20101217_231257_000000443097_00303_46007_7419.N1	17-DEC-2010 23:12:57	Bright	44.000	107	37The Aur	2.6490	11000.	88	46007	No
148	GOM_TRA_1PNPDE20101217_231508_000000433097_00303_46007_7420.N1	17-DEC-2010 23:15:08	Bright	42.500	42	34Bet Aur	1.9000	10200.	85	46007	No
149	GOM_TRA_1PNPDE20101217_233030_000000383097_00303_46007_7421.N1	17-DEC-2010 23:30:30	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	46007	No
150	GOM_TRA_1PNPDE20101217_233501_000000633097_00303_46007_7422.N1	17-DEC-2010 23:35:01	Bright	63.000	32	77Eps UMa	1.7630	11000.	126	46007	No
151	GOM_TRA_1PNPDE20101217_233740_000000593097_00303_46007_7423.N1	17-DEC-2010 23:37:40	Bright	59.000	39	85Eta UMa	1.8540	24000.	118	46007	No
152	GOM_TRA_1PNPDE20101217_234105_000000563097_00303_46007_7424.N1	17-DEC-2010 23:41:05	Bright	56.000	180	27Gam Boo	3.0400	8000.0	112	46007	No
153	GOM_TRA_1PNPDE20101217_234419_000000553097_00303_46007_7425.N1	17-DEC-2010 23:44:19	Bright	55.000	83		2.3780	11000.	110	46007	No
154	GOM_TRA_1PNPDE20101217_234742_000000413097_00303_46007_7426.N1	17-DEC-2010 23:47:42	Bright	41.000	111	8Eta Boo	2.6800	6000.0	82	46007	No
155	GOM_TRA_1PNPDE20101217_235748_000000543097_00303_46007_7394.N1	17-DEC-2010 23:57:48	Twilight_stray	53.500	15	67Alp Vir	0.97600	28000.	107	46007	Yes

### 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.

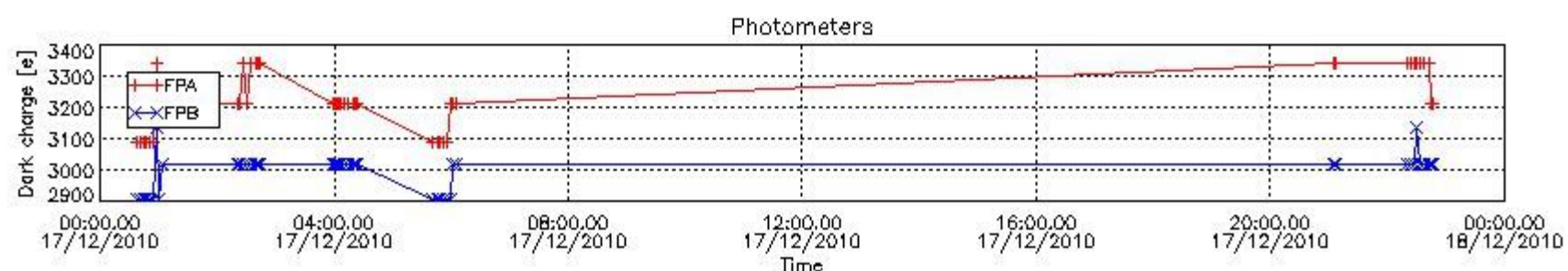
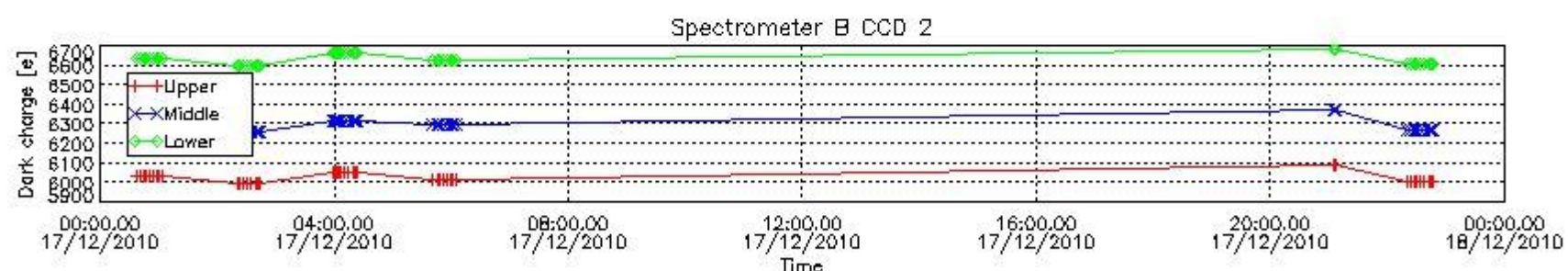
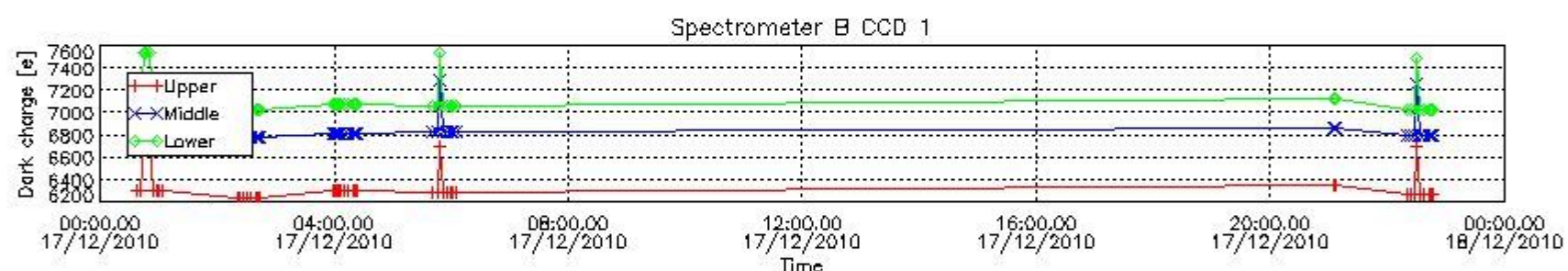
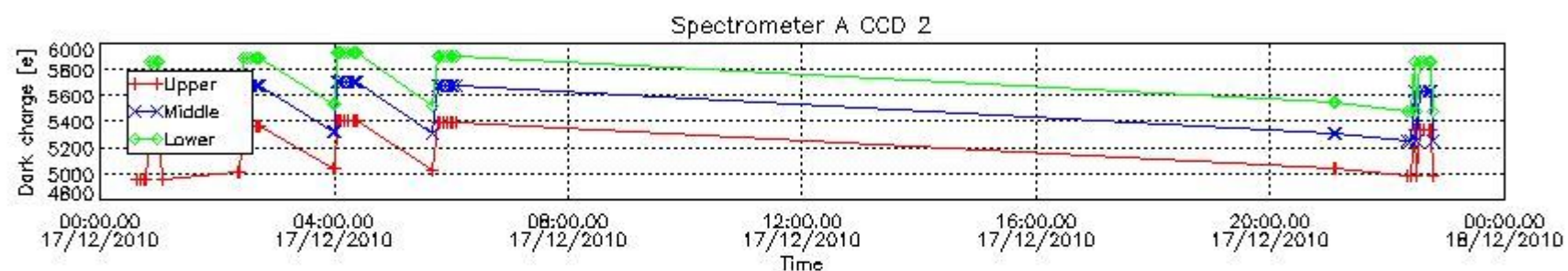
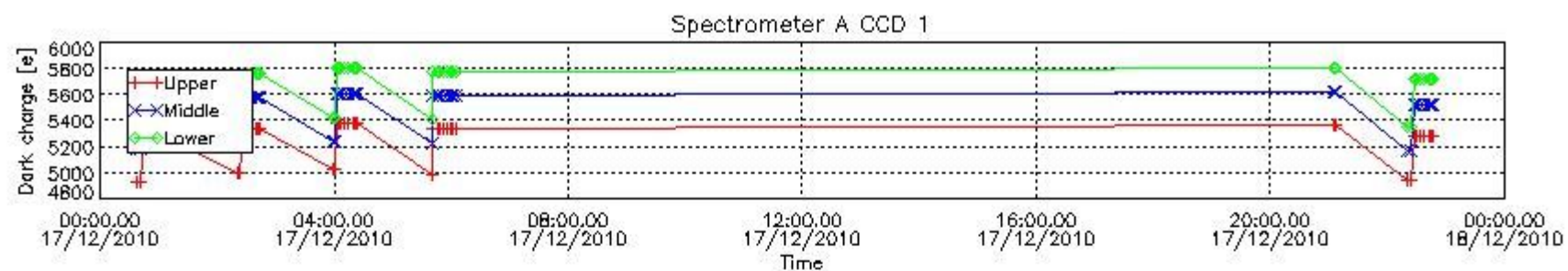
##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20101217_210406_000000493097_00302_46006_7404.N1	DC map used
GOM_TRA_1PNPDE20101217_210644_000000573097_00302_46006_7405.N1	DC map used
GOM_TRA_1PNPDE20101217_210955_000000533097_00302_46006_7406.N1	DC map used
GOM_TRA_1PNPDE20101217_211140_000000543097_00302_46006_7407.N1	DC map used
GOM_TRA_1PNPDE20101217_211437_000000423097_00302_46006_7408.N1	DC map used
GOM_TRA_1PNPDE20101217_211751_000000473097_00302_46006_7409.N1	DC map used
GOM_TRA_1PNPDE20101217_212001_000000473097_00302_46006_7410.N1	DC map used
GOM_TRA_1PNPDE20101217_212304_000000653097_00302_46006_7411.N1	DC map used
GOM_TRA_1PNPDE20101217_212507_000000463097_00302_46006_7412.N1	DC map used
GOM_TRA_1PNPDE20101217_212711_000000423097_00302_46006_7413.N1	DC map used
GOM_TRA_1PNPDE20101217_212915_000000423097_00302_46006_7414.N1	DC map used
GOM_TRA_1PNPDE20101217_213244_000000453097_00302_46006_7415.N1	DC map used
GOM_TRA_1PNPDE20101217_213455_000000423097_00302_46006_7416.N1	DC map used
GOM_TRA_1PNPDE20101217_215017_000000383097_00302_46006_7417.N1	DC map used



GOM_TRA_1PNPDE20101217_215447_000000423097_00302_46006_7418.N1	DC map used
GOM_TRA_1PNPDE20101217_215726_000000393097_00302_46006_7419.N1	DC map used
GOM_TRA_1PNPDE20101217_220050_000000393097_00302_46006_7420.N1	DC map used
GOM_TRA_1PNPDE20101217_220405_000000553097_00302_46006_7421.N1	DC map used
GOM_TRA_1PNPDE20101217_220727_000000423097_00302_46006_7422.N1	DC map used

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



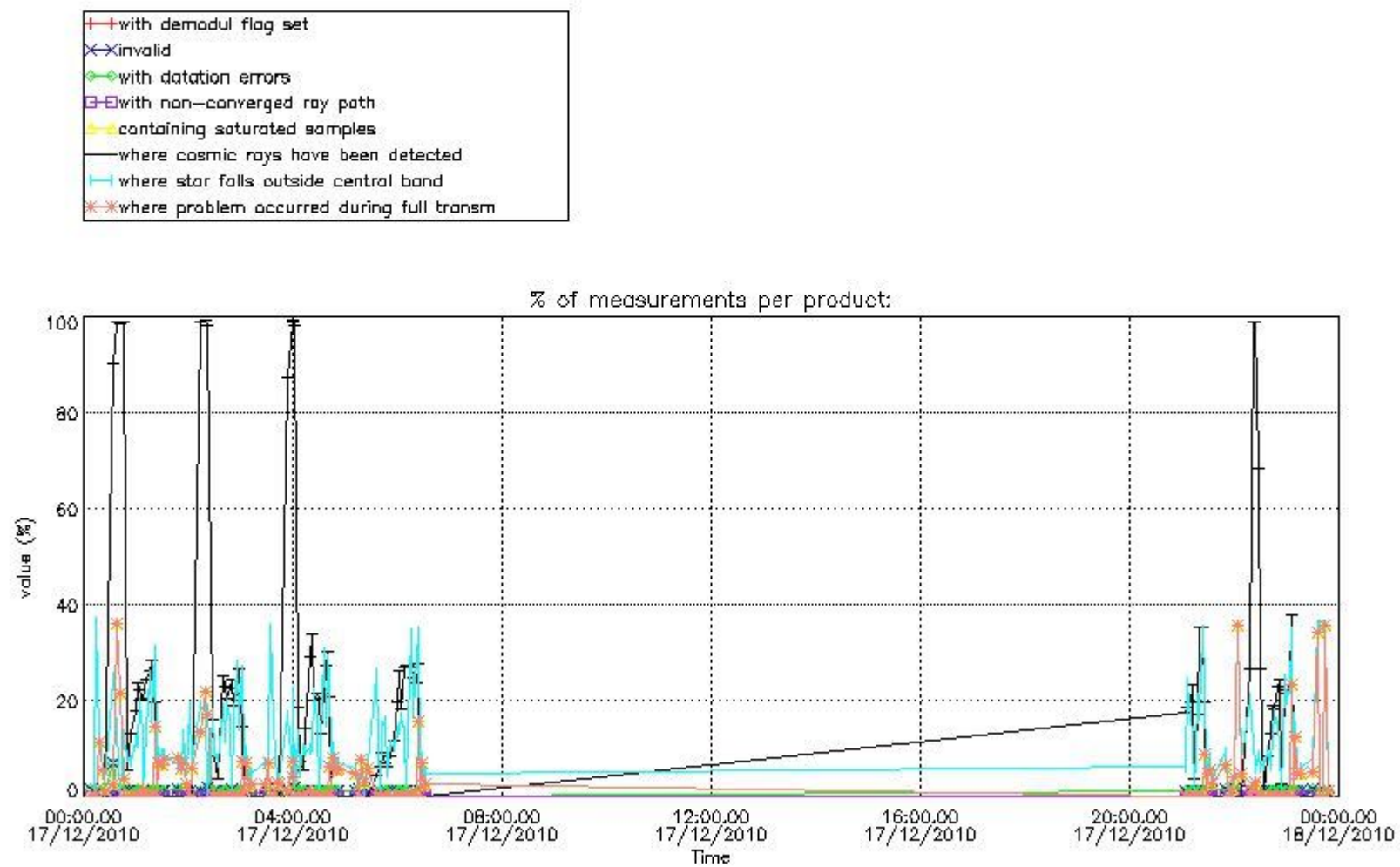
5. Demodulation flag and quality information monitoring

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:

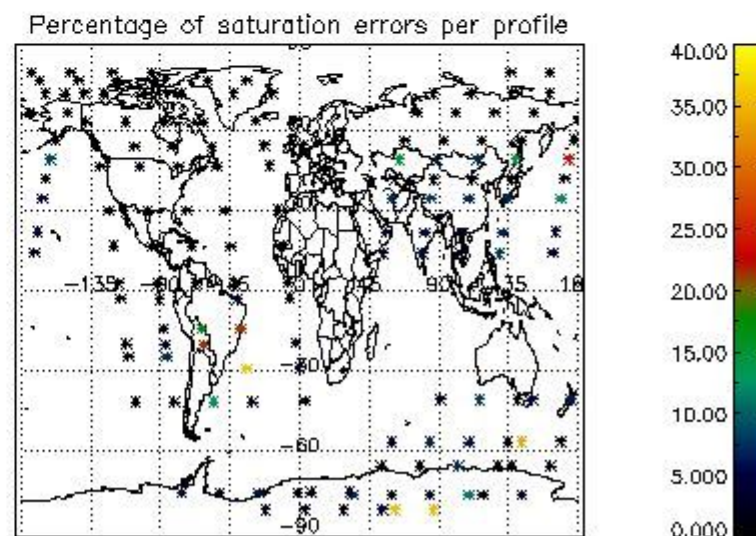
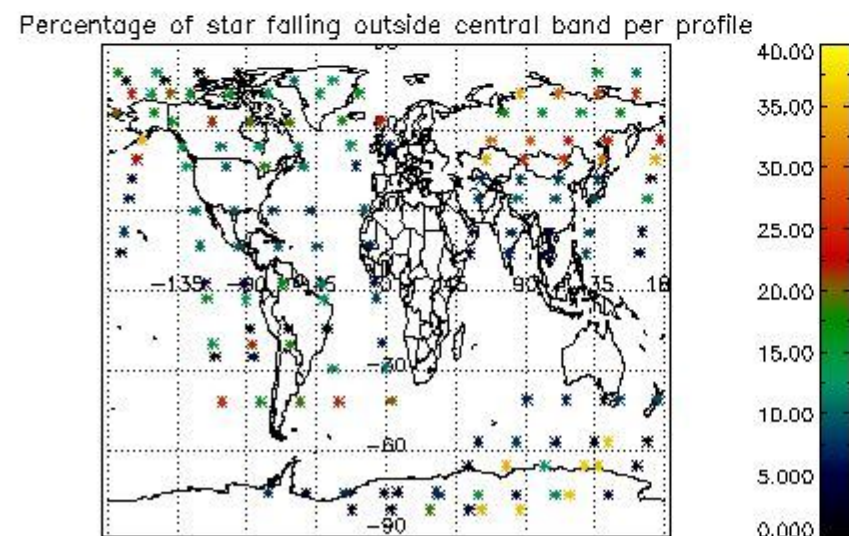
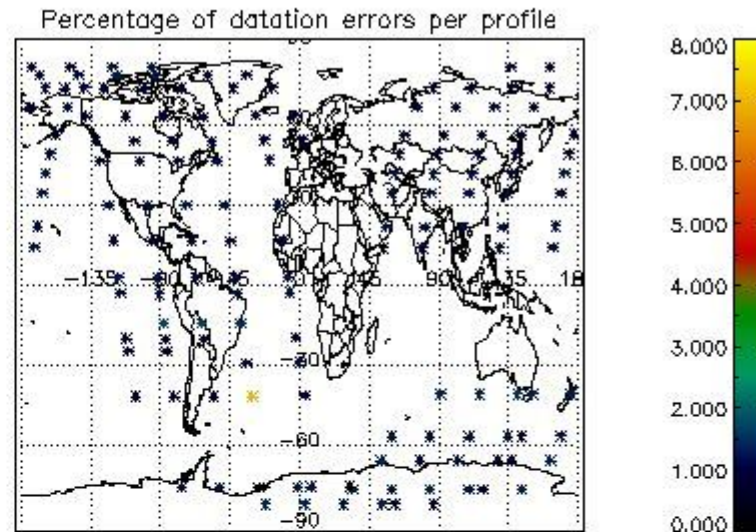
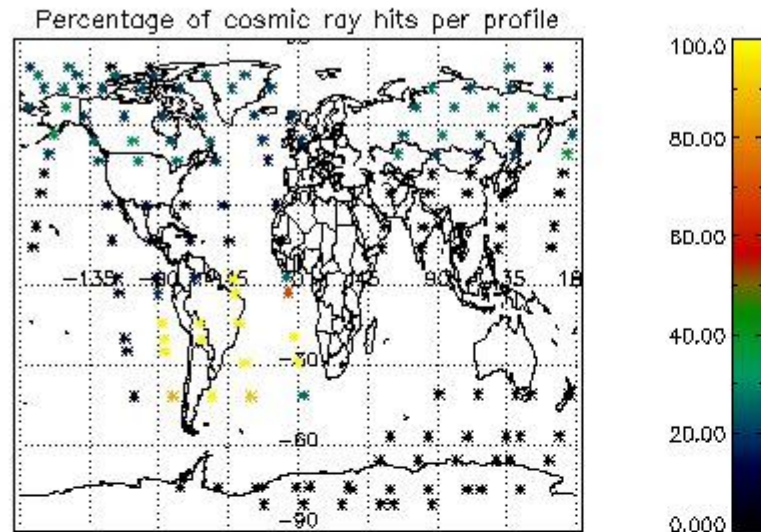
At least one measurement with demodulation flag set:	58.1699 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





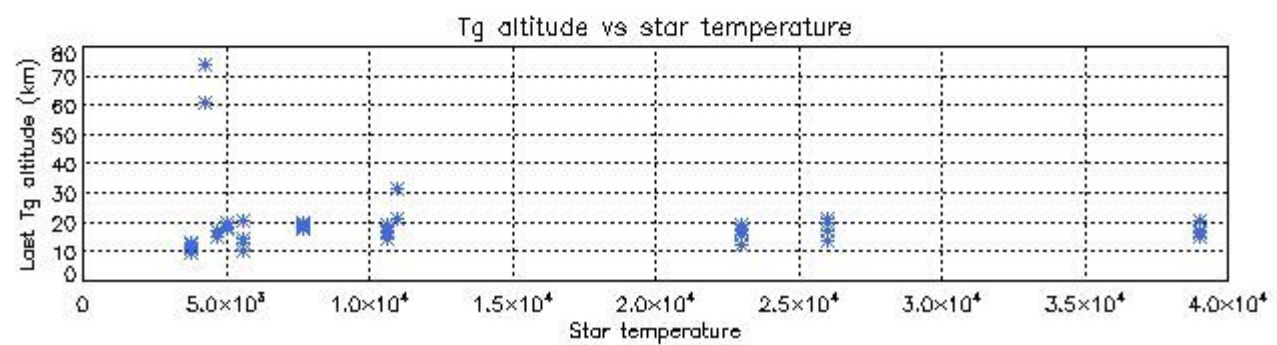
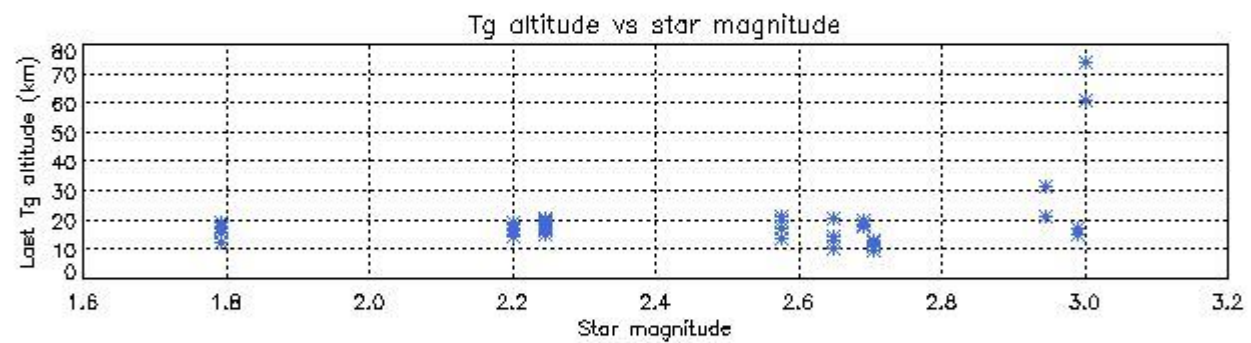
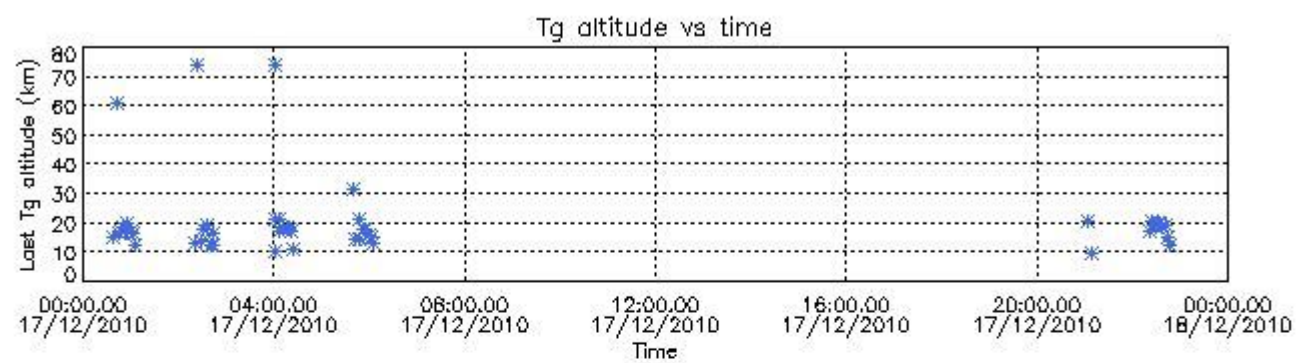
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	20.225	18.809	NaN
St. deviation:	13.642	6.1620	NaN
Maximum:	74.071	29.800	NaN
Minimum:	9.4691	3.5334	NaN
Number of data:	47.000	59.000	NaN

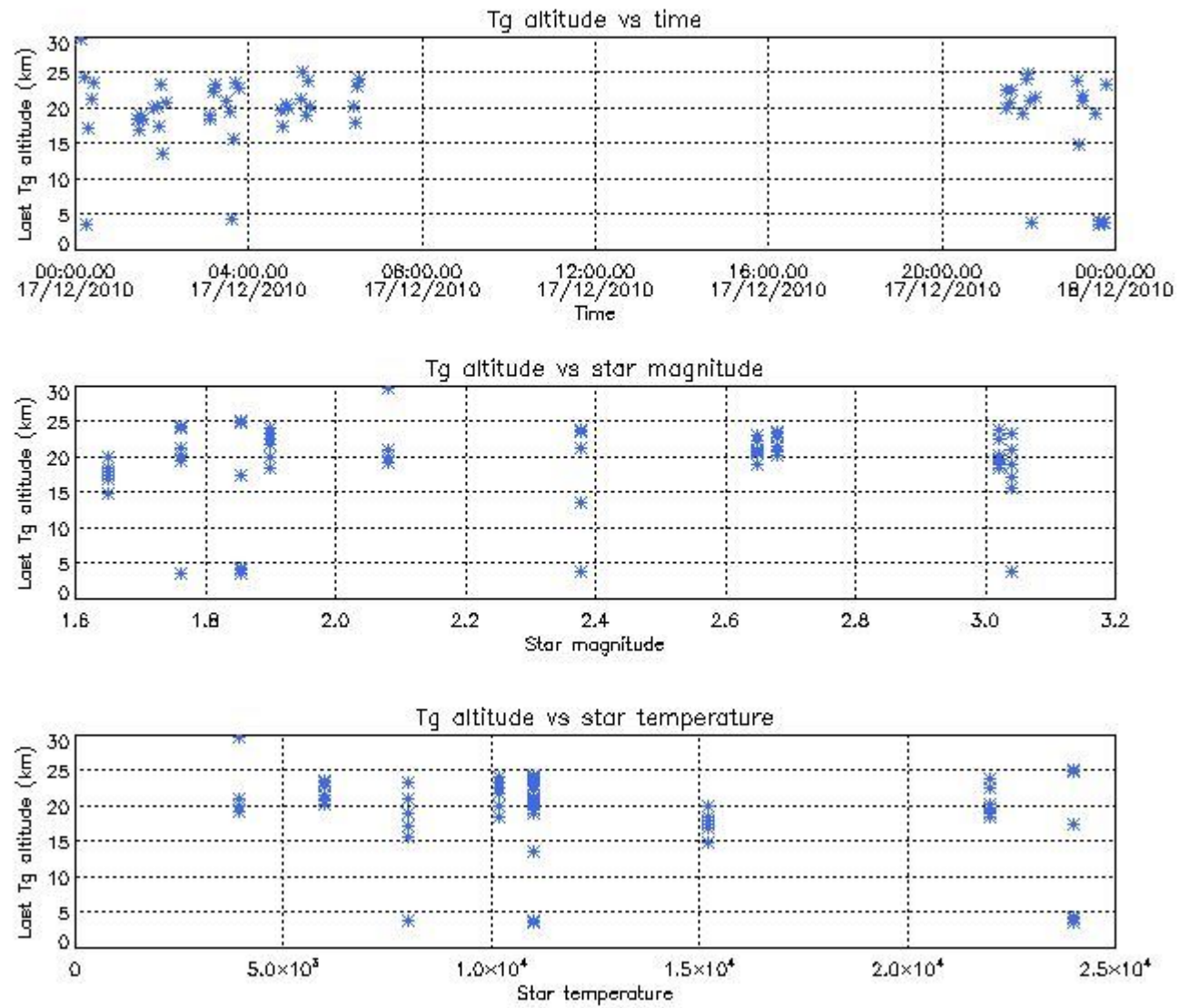
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost



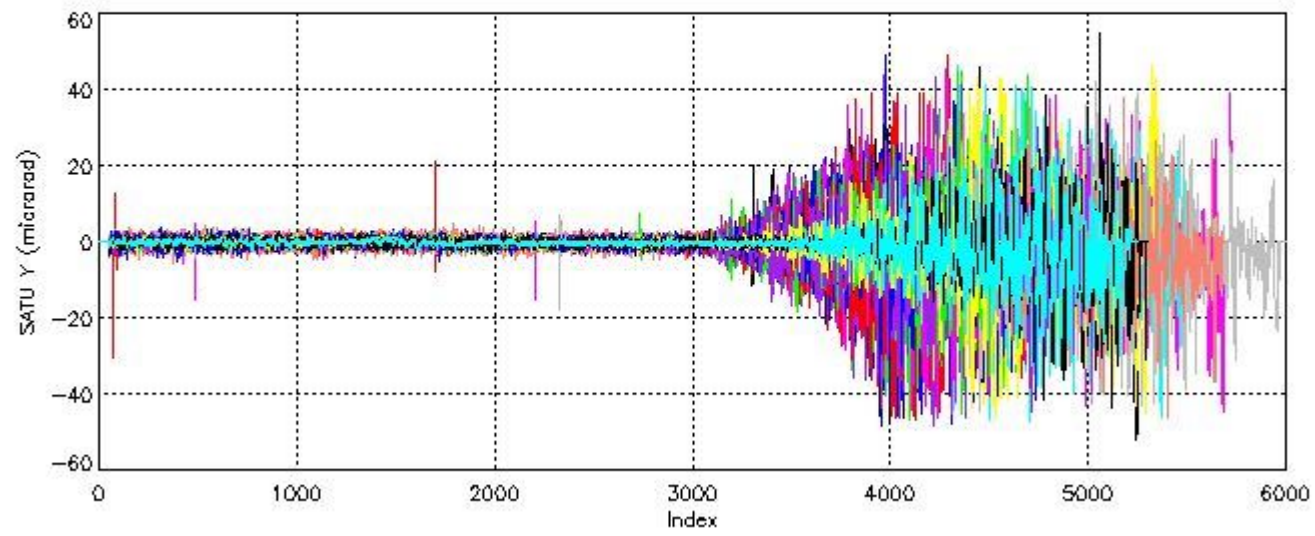
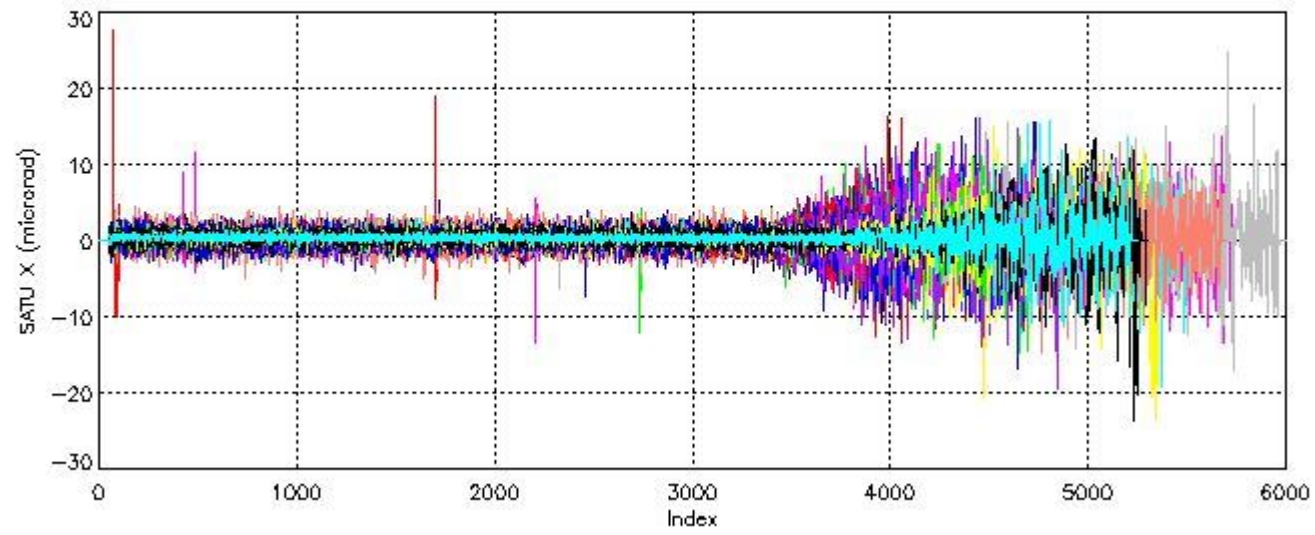
## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.25863	-0.30033	0.13644	-0.23128
St. deviation:	0.66052	0.81209	0.87870	1.0241
Maximum:	27.600	12.400	6.5000	6.1000
Minimum:	-9.9000	-30.400	-6.2000	-6.9000

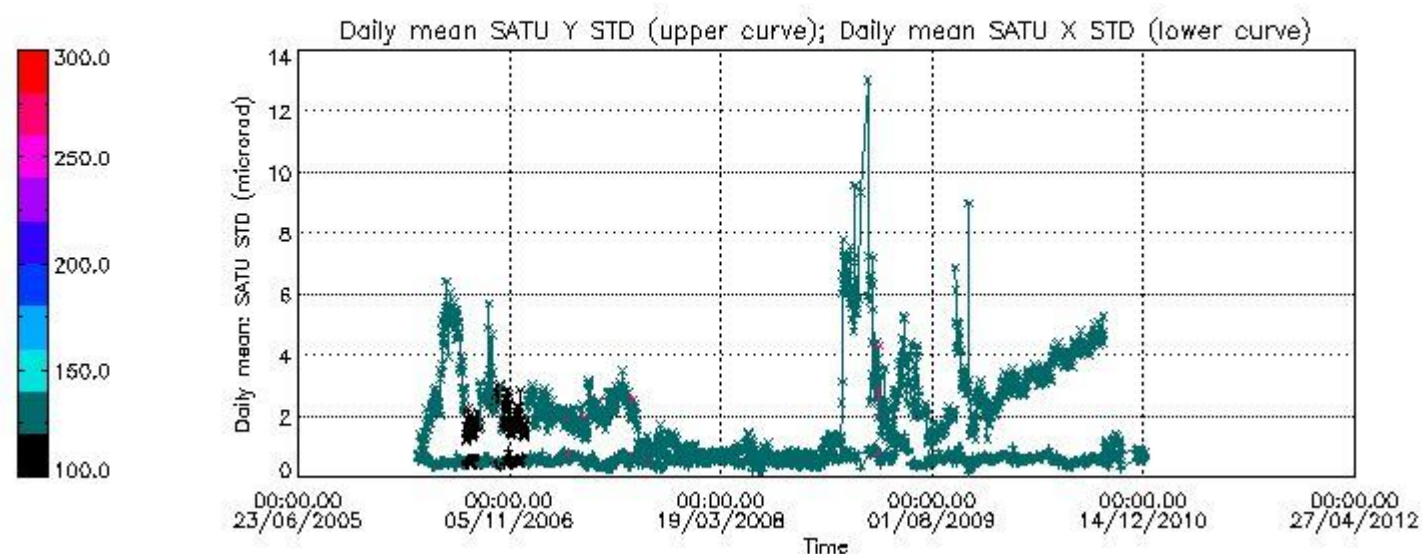
Number of data:	53700.	53700.	57500.	57500.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

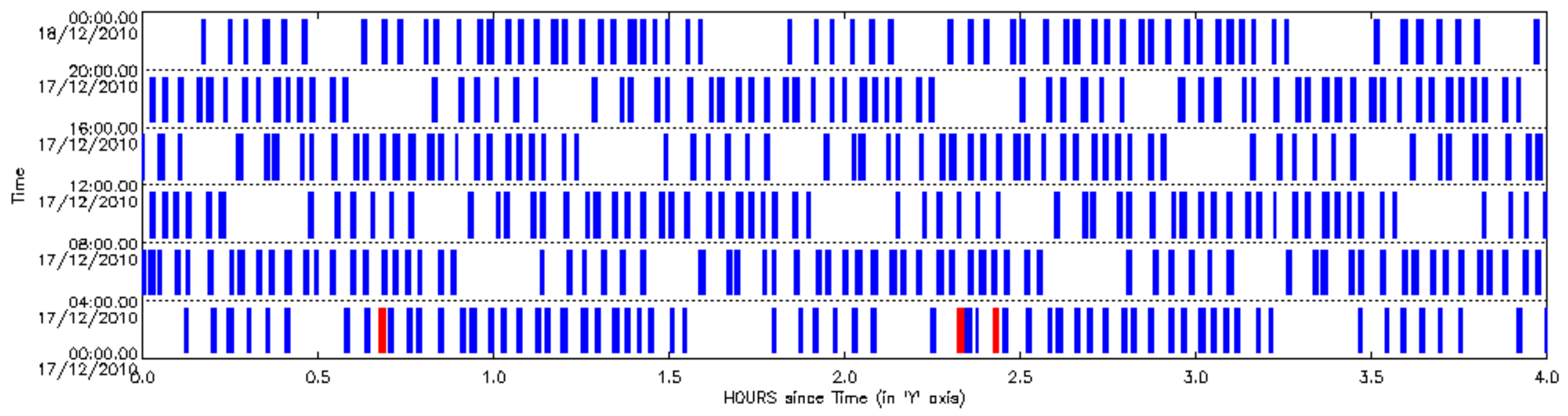
Upper curve: STD of SATU Y axis  
Lower curve: STD of SATU X axis



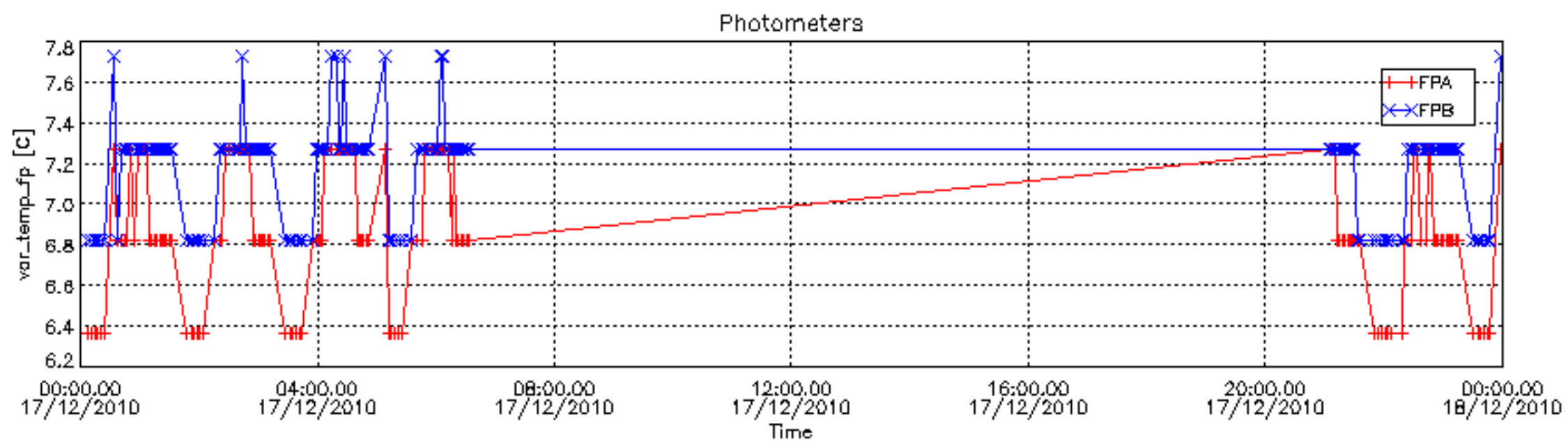
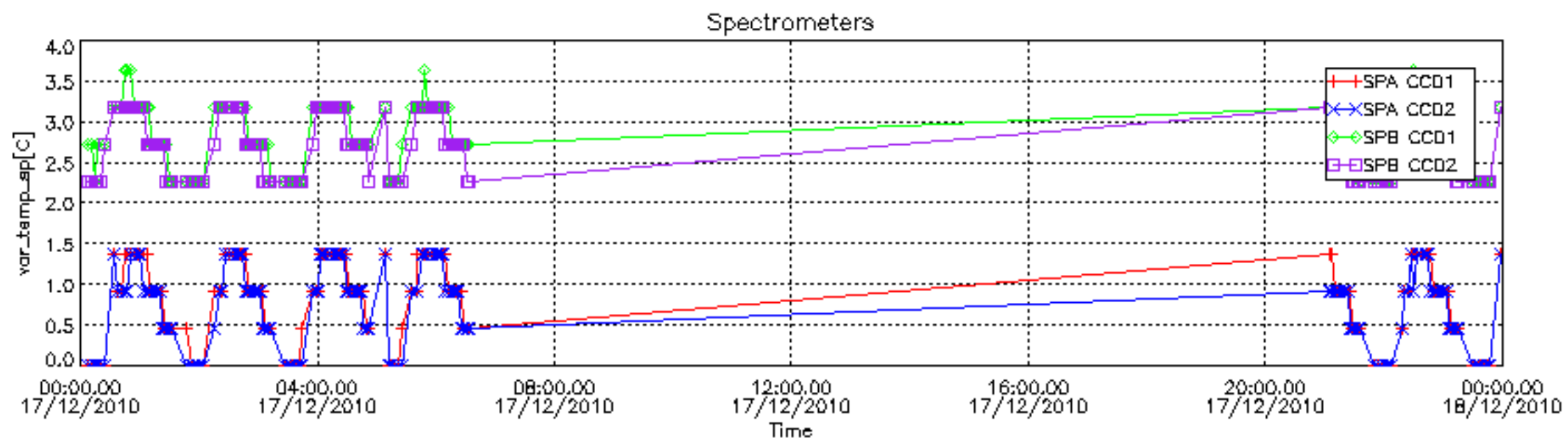
### 8. Auxiliary Data Files used for the production reported in section 2.4

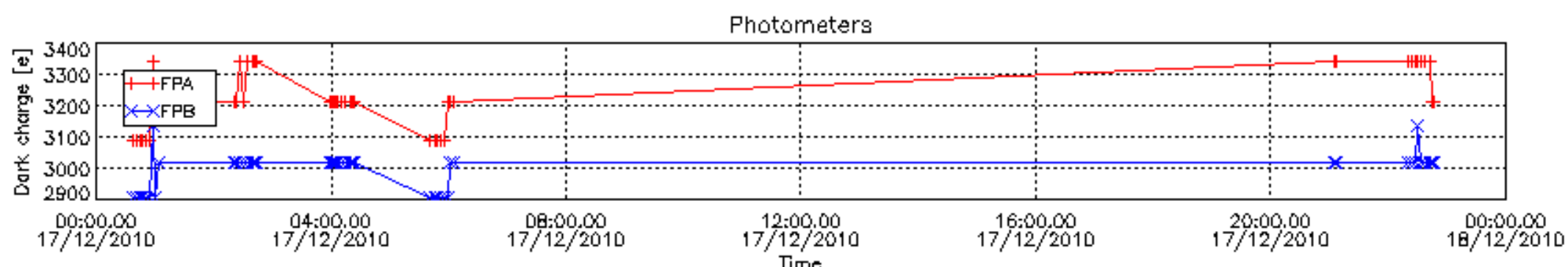
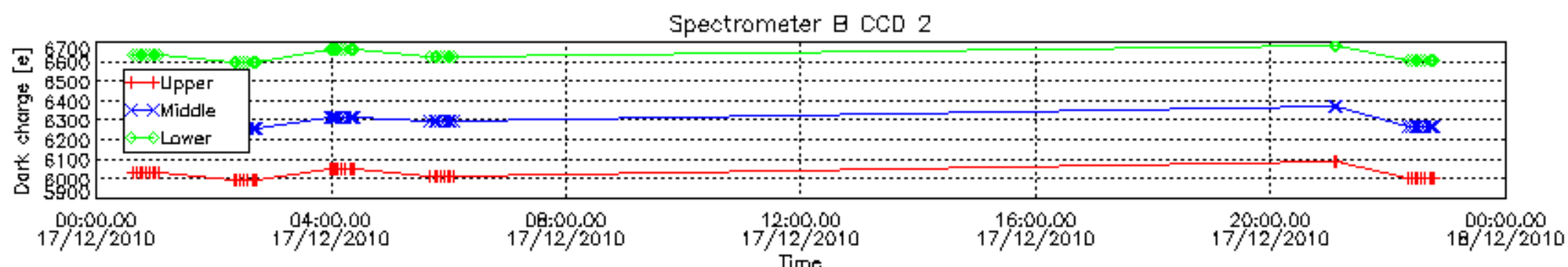
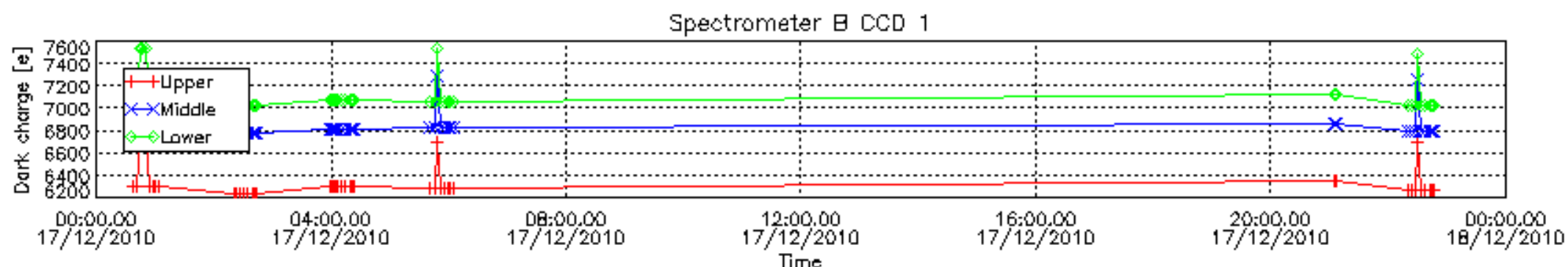
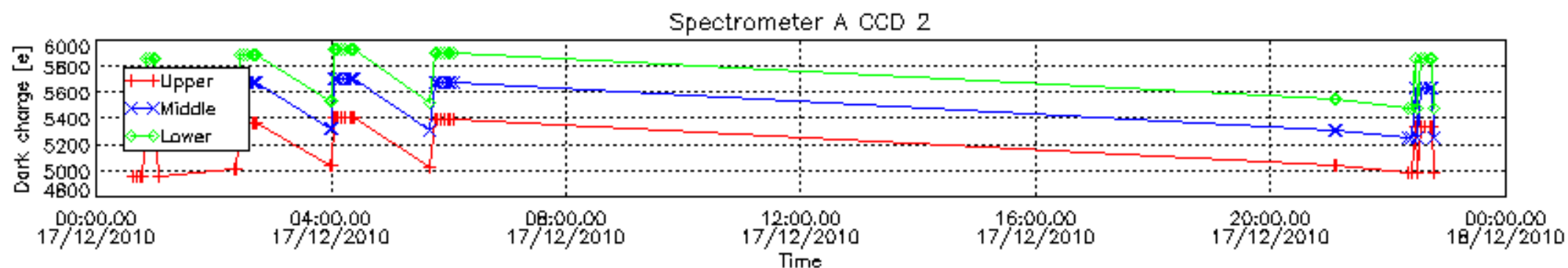
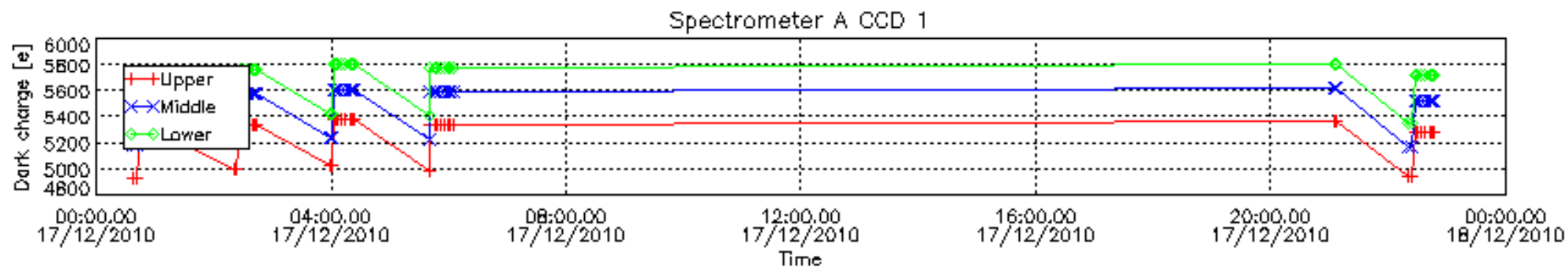
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

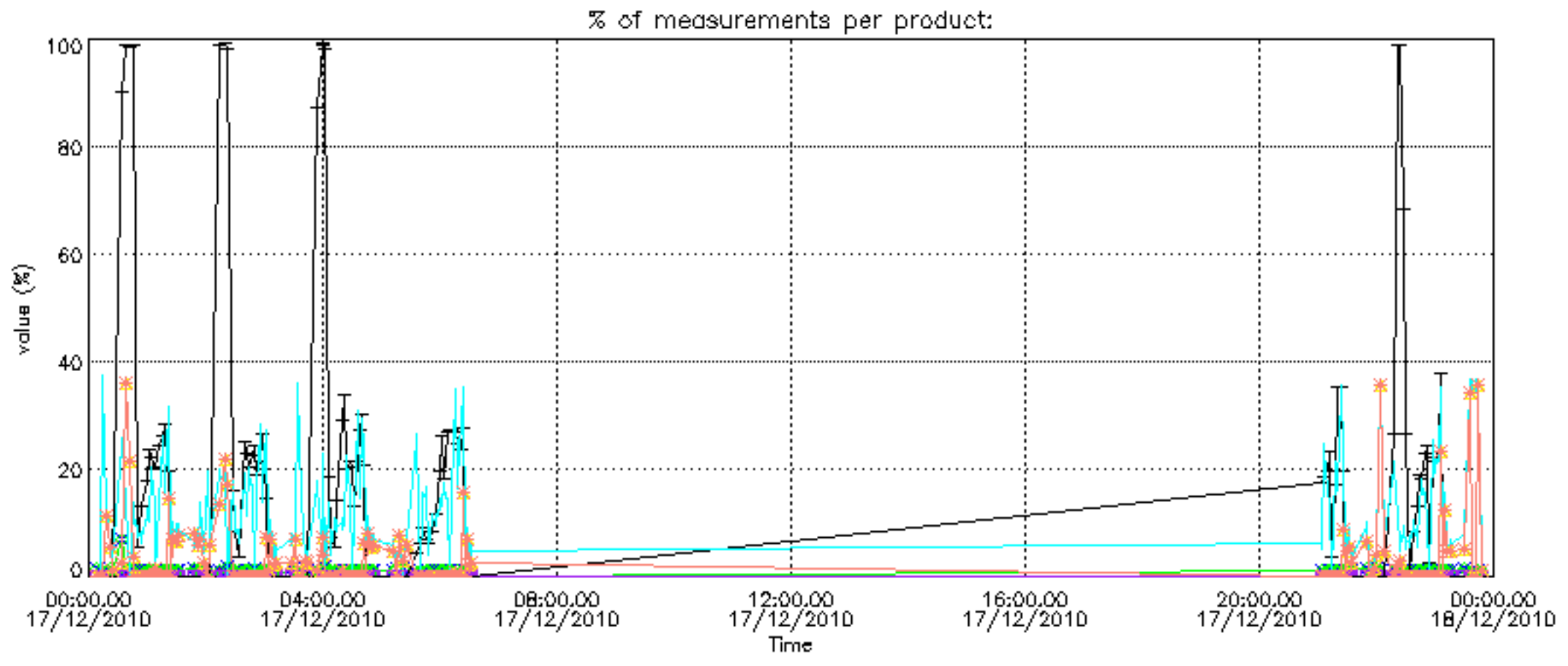
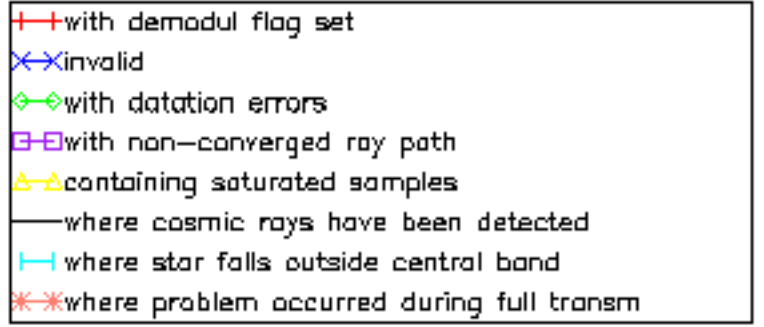
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INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	17-DEC-2010 00:07:14
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101214_130634_20101212_000000_20500101_000000	1	17-DEC-2010 00:07:14
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	17-DEC-2010 00:07:14
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-DEC-2010 00:07:14
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	17-DEC-2010 00:07:14
ECMWF_FILE	AUX_ECF_AXNECM20101216_054117_20101216_210000_20101217_090000	1	17-DEC-2010 00:07:14
ECMWF_FILE	AUX_ECF_AXNECM20101216_174117_20101217_030000_20101217_150000	54	17-DEC-2010 03:27:42
ECMWF_FILE	AUX_ECA_AXNECM20101217_052115_20101216_210000_20101217_090000	82	17-DEC-2010 05:07:56
ECMWF_FILE	AUX_ECF_AXNECM20101217_054117_20101217_210000_20101218_090000	109	17-DEC-2010 21:04:06
OPTIONAL_ECMWF_FILE	MISSING	1	17-DEC-2010 00:07:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101216_225329_000057383097_00288_45992_2142.N1	1	17-DEC-2010 00:07:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101217_002907_000057383097_00289_45993_2143.N1	7	17-DEC-2010 00:34:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101217_021004_000041443097_00290_45994_2144.N1	34	17-DEC-2010 02:14:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101217_032427_000057383097_00291_45995_2145.N1	54	17-DEC-2010 03:27:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101217_050524_000057383097_00292_45996_2146.N1	82	17-DEC-2010 05:07:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101217_210146_000041443097_00302_46006_2147.N1	109	17-DEC-2010 21:04:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101217_221050_000060573097_00302_46006_2148.N1	128	17-DEC-2010 22:17:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101217_235706_000054193097_00303_46007_2149.N1	155	17-DEC-2010 23:57:48





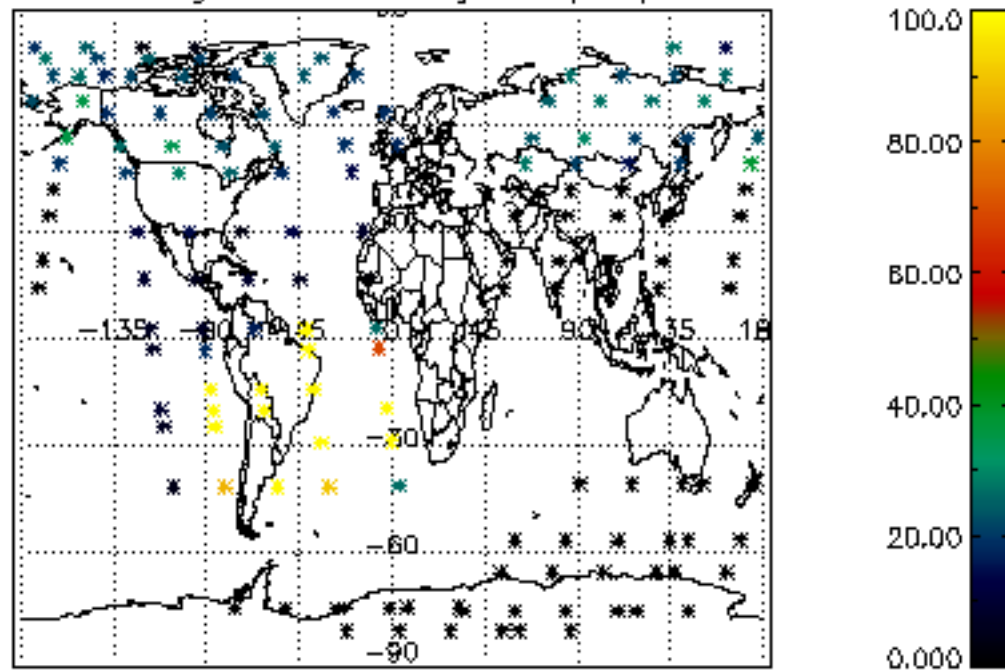




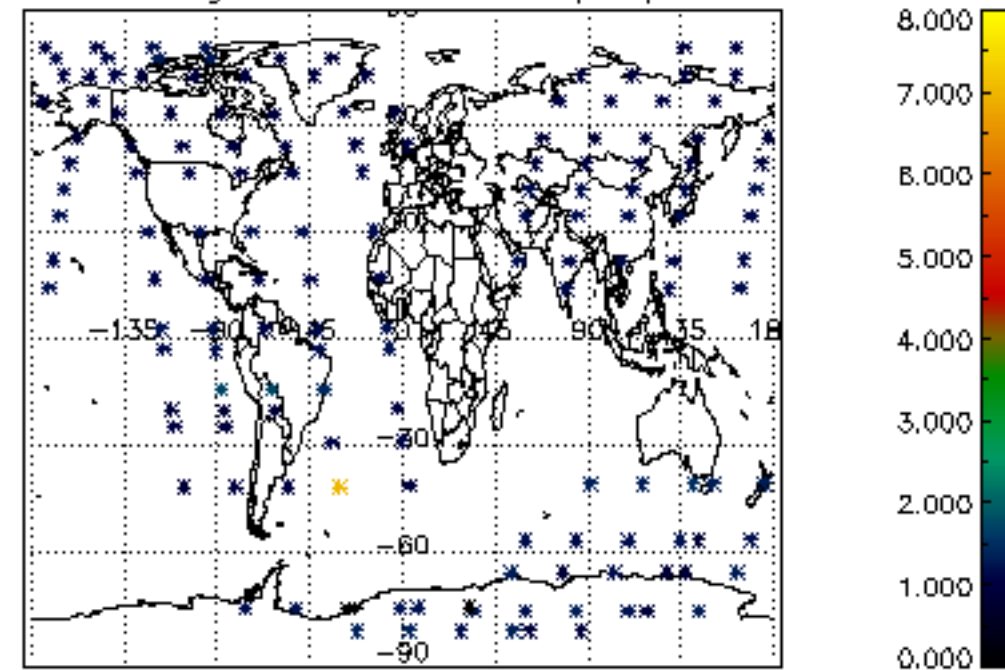




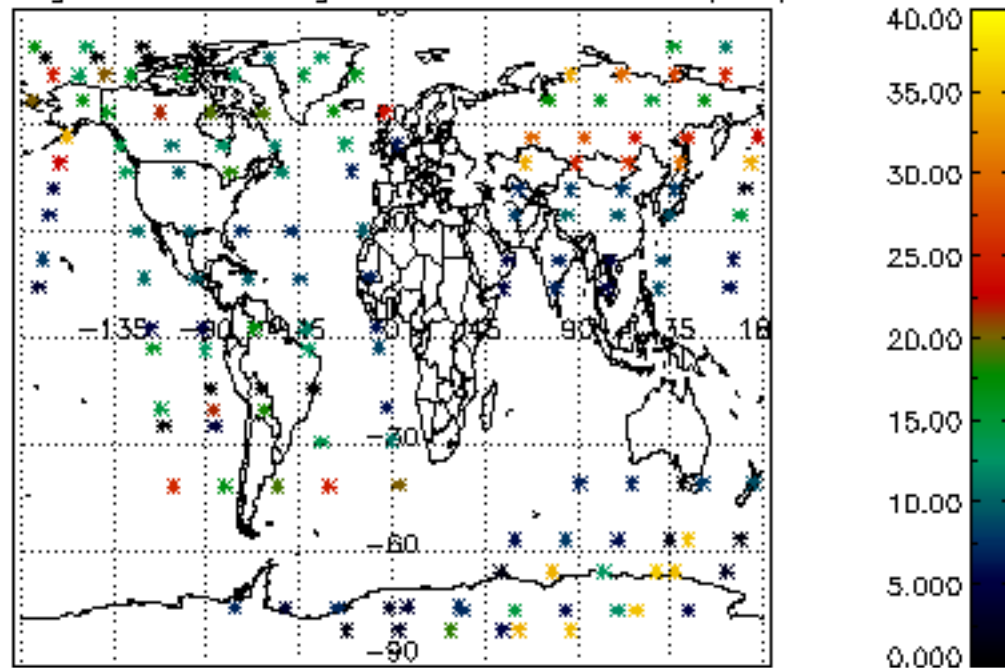
Percentage of cosmic ray hits per profile



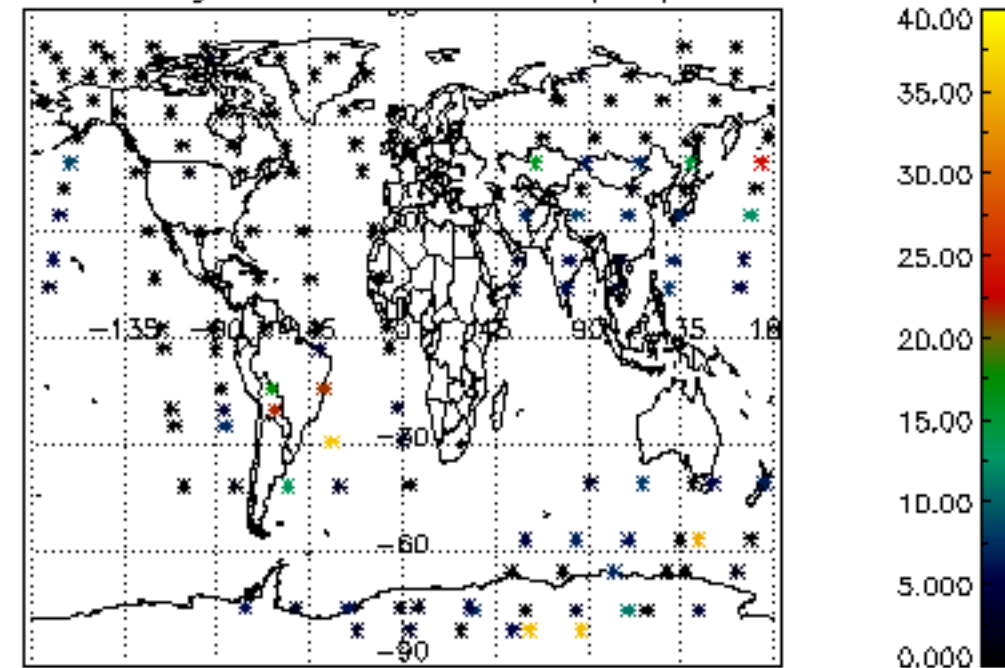
Percentage of datation errors per profile



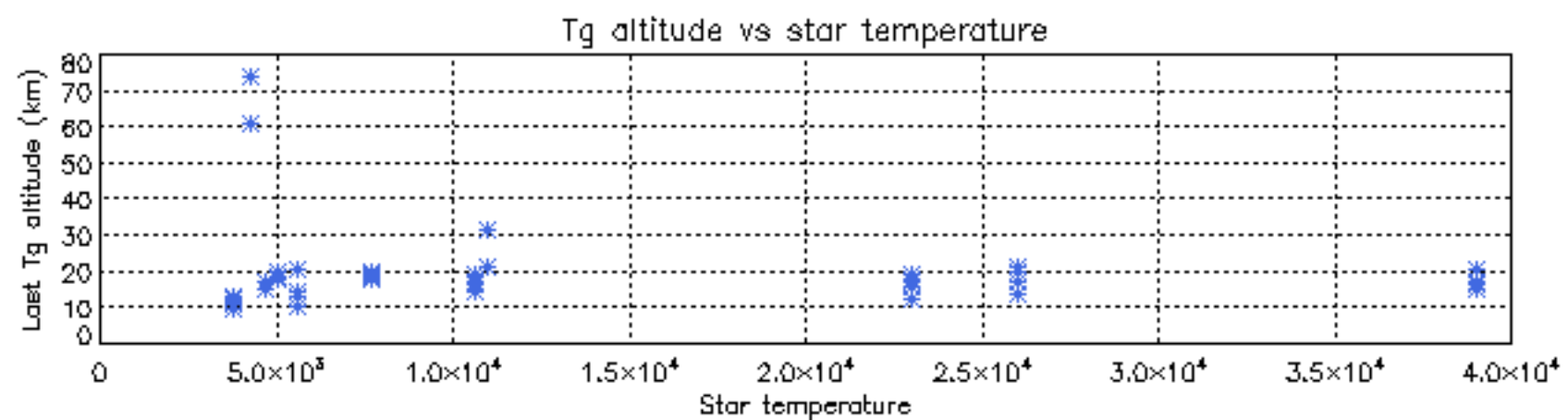
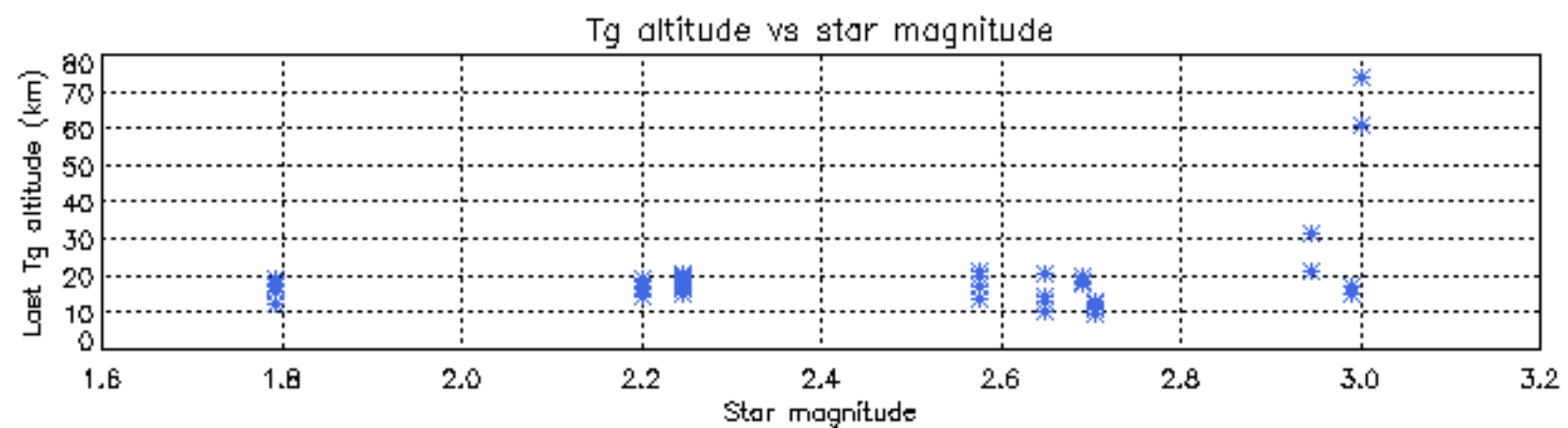
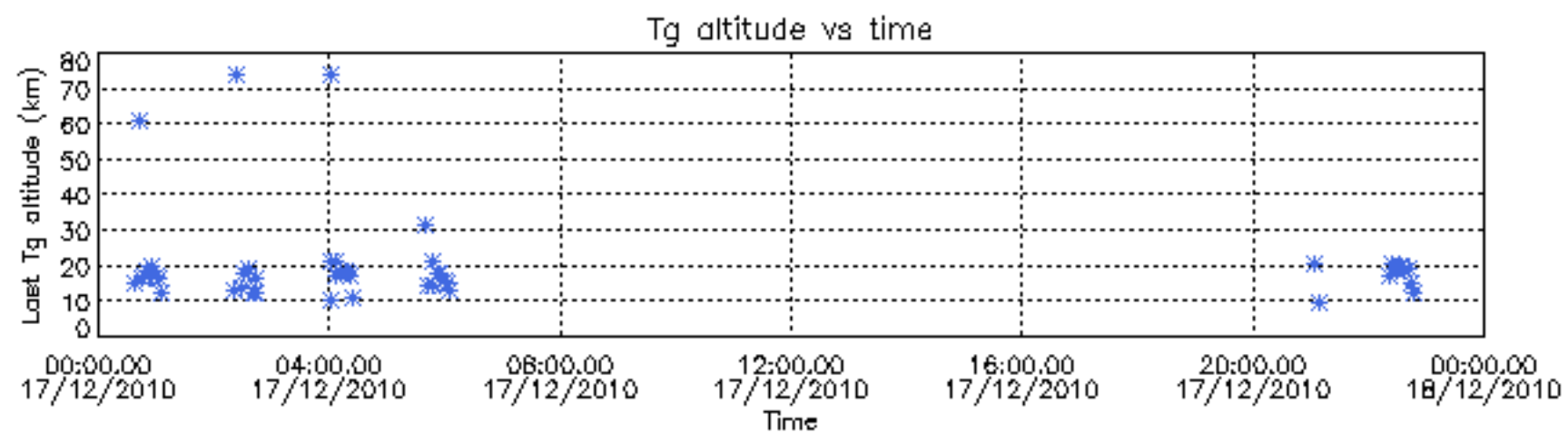
Percentage of star falling outside central band per profile



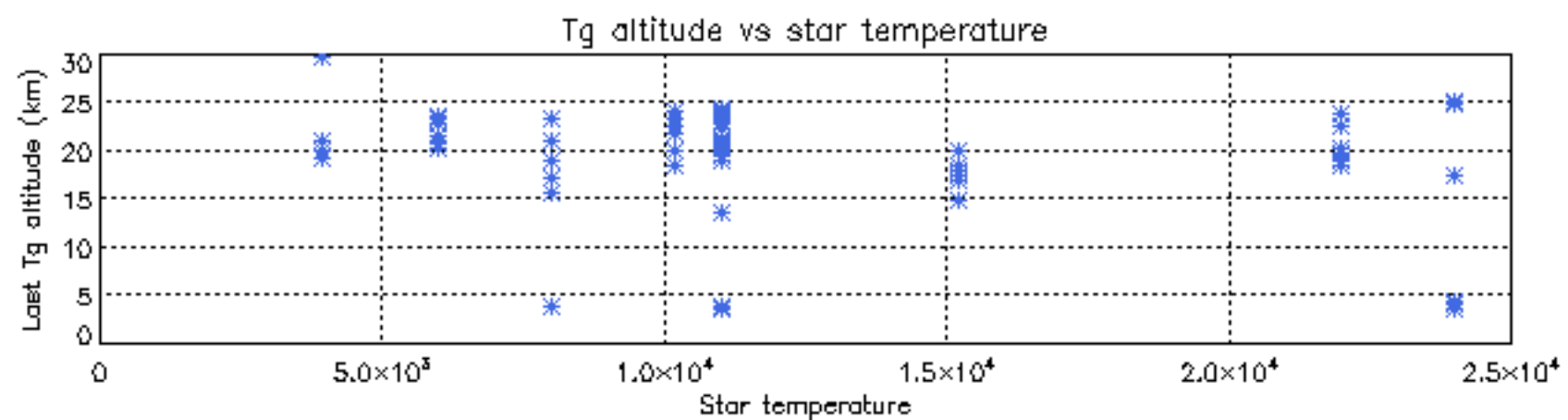
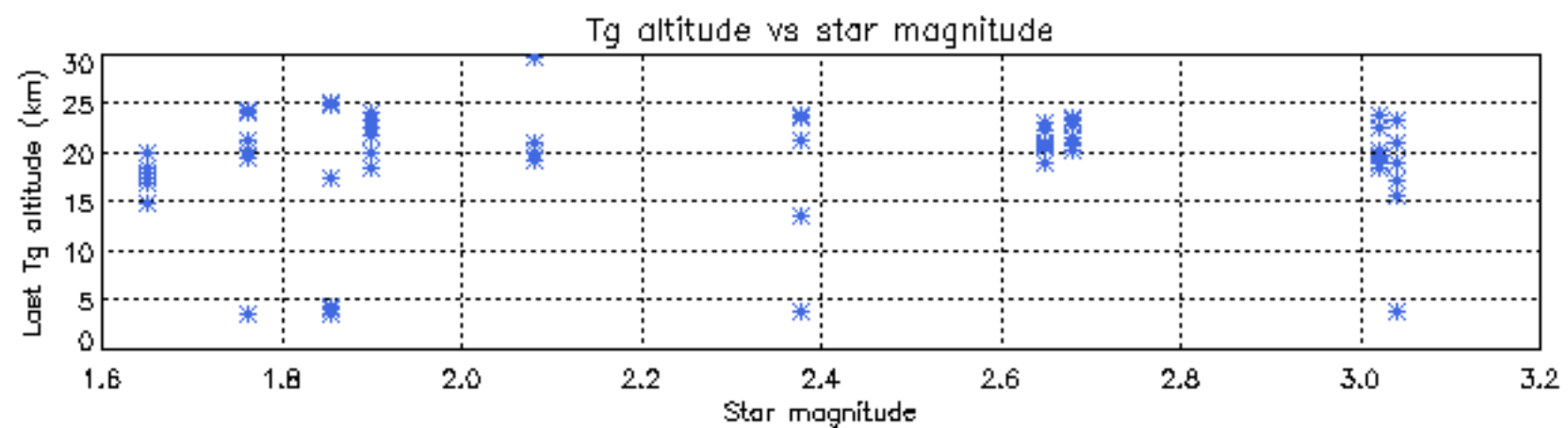
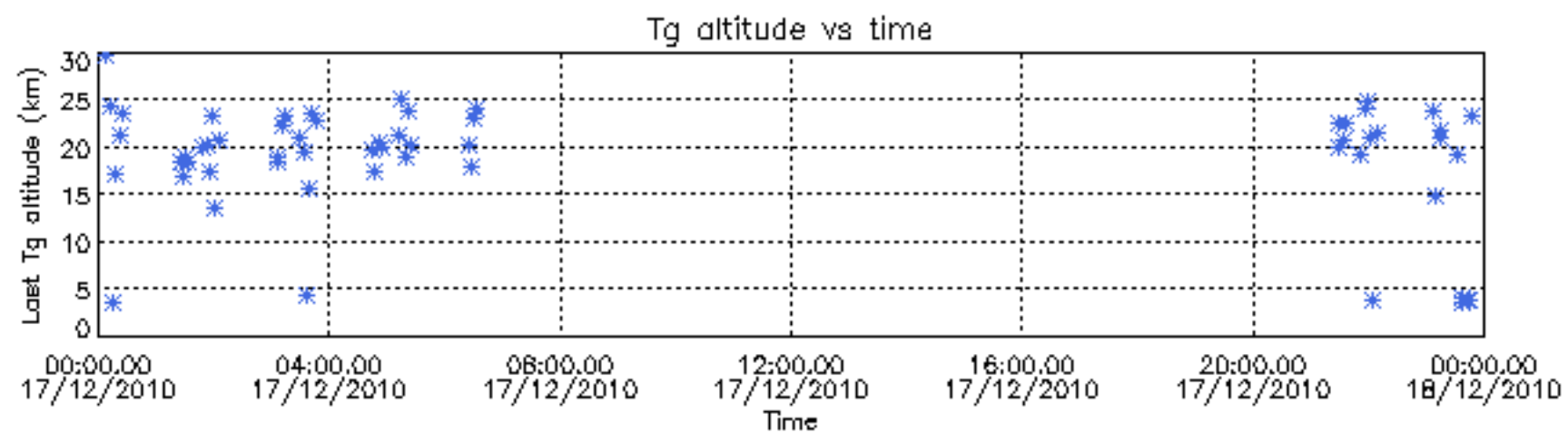
Percentage of saturation errors per profile



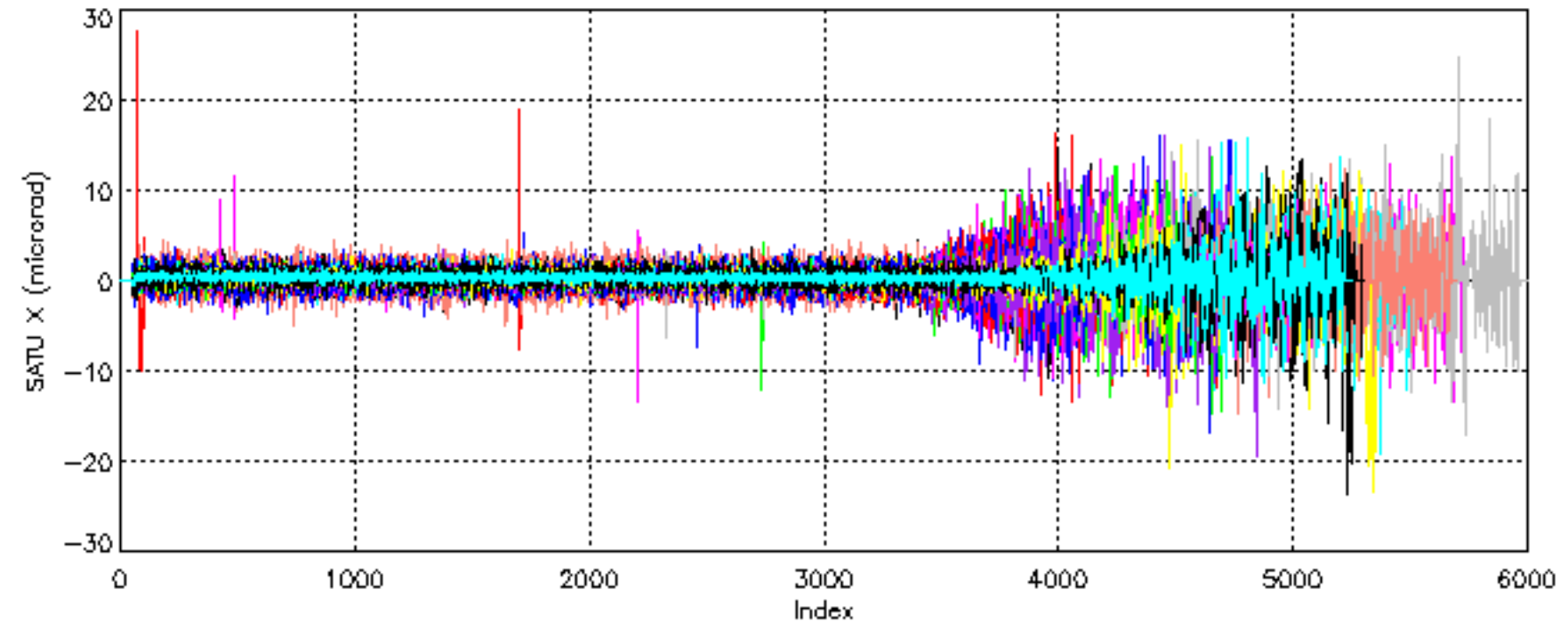
Tangent altitude at which the star is lost

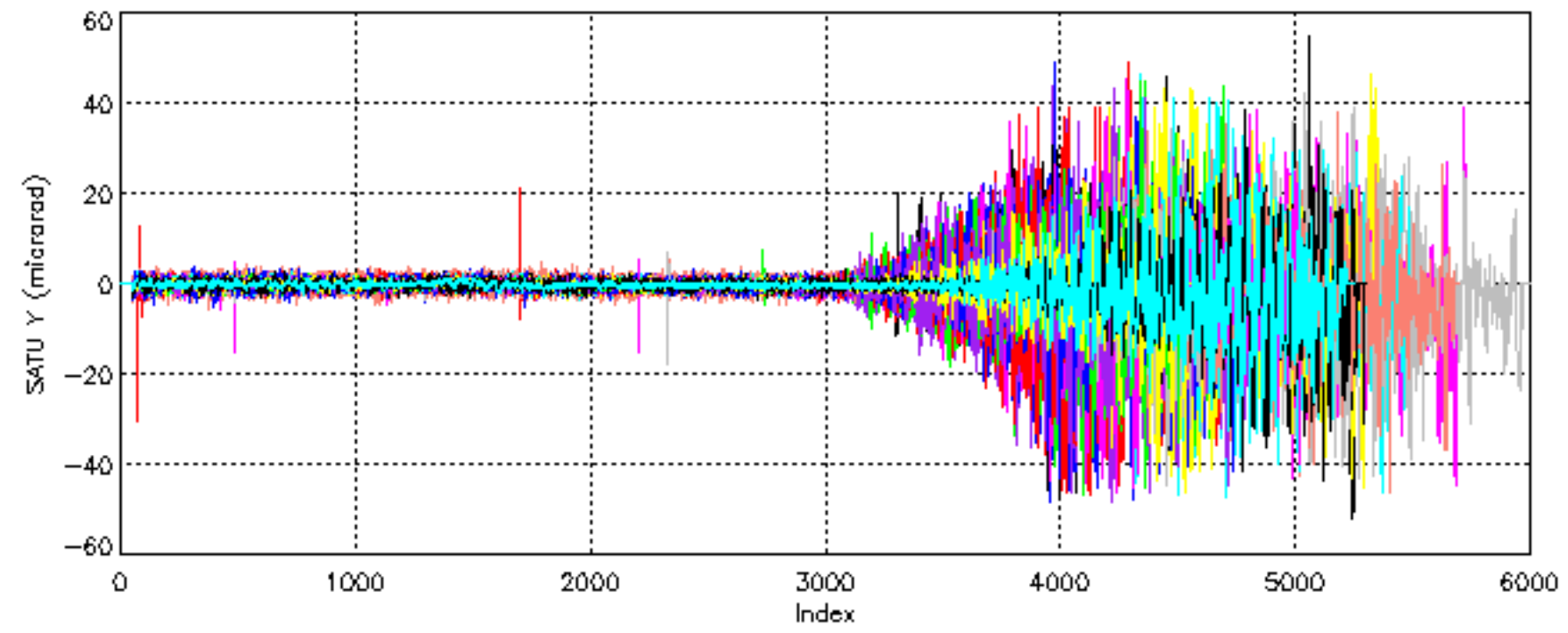


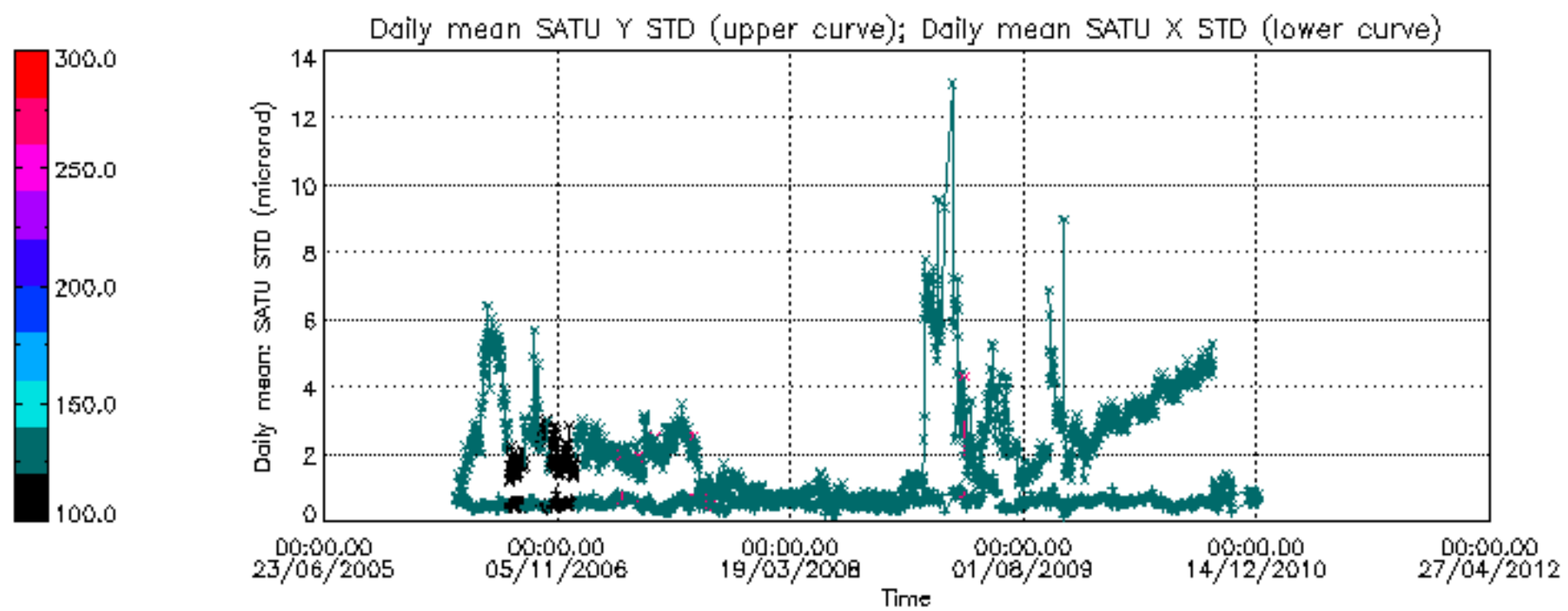
Tangent altitude at which the star is lost











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 9; 1739.4; 01-DEC-2010 02:41:30; Dark ; 59.0; 7; 19Bet Ori ; 0.10; 14000;occ; 118; 0;45765  
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 12; 2456.0; 01-DEC-2010 02:53:27; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;45765  
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 4; -1849.2; 01-DEC-2010 03:21:55; Bright; 67.0; 174; 52Psi UMa ; 3.00; 4400;occ; 134; 0;45765  
 5; -1687.8; 01-DEC-2010 03:24:37; Bright; 40.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 80; 0;45765  
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 7; -918.1; 01-DEC-2010 03:37:27; Bright; 45.0; 121; 29Gam Vir ; 2.74; 7200;occ; 90; 0;45765  
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 9; -484.1; 01-DEC-2010 03:44:41; Dark ; 47.0; 171; 2Eps Crv ; 3.00; 4250;occ; 94; 0;45765  
 10; 82.7; 01-DEC-2010 03:54:07; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;45766  
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 12; 597.5; 01-DEC-2010 04:02:42; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45766  
 13; 799.1; 01-DEC-2010 04:06:04; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;45766  
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 15; 1182.7; 01-DEC-2010 04:12:27; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;45766  
 16; 1523.9; 01-DEC-2010 04:18:09; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;45766  
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 18; 2217.7; 01-DEC-2010 04:29:42; Bright; 58.5; 13; 87Alp Tau ; 0.87; 3800;occ; 117; 0;45766  
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 22; 2722.5; 01-DEC-2010 04:38:07; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45766  
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3;-2019.9; 01-DEC-2010 04:59:19; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;45766
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17; 1739.5; 01-DEC-2010 06:01:58; Dark ; 58.0; 7; 19Bet Ori ; 0.10; 14000;occ; 116; 0;45767
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12; 3893.9; 01-DEC-2010 14:59:03; Bright; 45.5; 82; 48Bet UMa ; 2.37; 10600;occ; 91; 0;45772
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13; 4120.1; 05-DEC-2010 02:34:30; Bright; 48.5; 39; 85Eta UMa ; 1.85; 24000;occ; 97; 50;45822
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 15; 2306.0; 06-DEC-2010 23:10:35; Bright; 36.5; 146; 25Eta Tau ; 2.87; 15200;occ; 73; 0;45849  
 16; 2442.1; 06-DEC-2010 23:12:51; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;45849  
 17; 2525.7; 06-DEC-2010 23:14:15; Bright; 44.0; 114; 3Iot Aur ; 2.69; 4600;occ; 88; 0;45849  
 18; 2709.9; 06-DEC-2010 23:17:19; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;45849  
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 22; 3984.9; 06-DEC-2010 23:38:34; Bright; 37.5; 32; 77Eps UMa ; 1.76; 11000;occ; 75; 0;45849  
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 25; 4671.5; 06-DEC-2010 23:50:01; Bright; 37.0; 111; 8Eta Boo ; 2.68; 6000;occ; 74; 0;45849  
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 27; 5150.4; 06-DEC-2010 23:58:00; Dark ; 53.5; 121; 29Gam Vir ; 2.74; 7200;occ; 107; 0;45849

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 6; -1345.0; 06-DEC-2010 07:07:38; Bright; 36.0; 111; 8Eta Boo ; 2.68; 6000;occ; 72; 0;45839  
 7; -1146.9; 06-DEC-2010 07:10:56; Bright; 45.0; 138; 47Eps Vir ; 2.83; 4700;occ; 90; 0;45839  
 8; -870.5; 06-DEC-2010 07:15:33; Dark ; 55.0; 121; 29Gam Vir ; 2.74; 7200;occ; 110; 0;45839  
 9; -514.6; 06-DEC-2010 07:21:28; Dark ; 50.0; 100; 4Gam Crv ; 2.58; 13100;occ; 100; 0;45839  
 10; -418.3; 06-DEC-2010 07:23:05; Dark ; 51.0; 171; 2Eps Crv ; 3.00; 4250;occ; 102; 0;45839  
 11; 142.2; 06-DEC-2010 07:32:25; Dark ; 54.0; 113; Mu Vel ; 2.69; 5000;occ; 108; 0;45840  
 12; 467.8; 06-DEC-2010 07:37:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45840  
 13; 661.0; 06-DEC-2010 07:41:04; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;45840  
 14; 836.1; 06-DEC-2010 07:43:59; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;45840  
 15; 967.9; 06-DEC-2010 07:46:11; Dark ; 60.5; 117; Pi Pup ; 2.71; 3800;occ; 121; 0;45840  
 16; 1211.5; 06-DEC-2010 07:50:15; Dark ; 45.0; 108; Alp Col ; 2.65; 15200;occ; 90; 0;45840  
 17; 1534.6; 06-DEC-2010 07:55:38; Dark ; 48.0; 101; 11Alp Lep ; 2.58; 7000;occ; 96; 0;45840

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 5; 2306.6; 06-DEC-2010 08:08:30; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;45840  
 6; 2443.4; 06-DEC-2010 08:10:46; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;45840  
 7; 2529.7; 06-DEC-2010 08:12:13; Bright; 44.0; 114; 3Iot Aur ; 2.69; 4600;occ; 88; 0;45840  
 8; 2711.1; 06-DEC-2010 08:15:14; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45840  
 9; 2873.9; 06-DEC-2010 08:17:57; Bright; 32.0; 42; 34Bet Aur ; 1.90; 10200;occ; 64; 0;45840



10; 3772.8; 06-DEC-2010 08:32:56; Bright; 46.5; 36; 50Alp UMA ; 1.80; 6300;occ; 93; 0;45840  
 11; 3865.6; 06-DEC-2010 08:34:29; Bright; 47.0; 82; 48Bet UMA ; 2.37; 10600;occ; 94; 0;45840  
 12; 3986.2; 06-DEC-2010 08:36:29; Bright; 41.0; 32; 77Eps UMA ; 1.76; 11000;occ; 82; 0;45840  
 13; 4120.3; 06-DEC-2010 08:38:43; Bright; 35.5; 39; 85Eta UMA ; 1.85; 24000;occ; 71; 0;45840  
 14; 4330.0; 06-DEC-2010 08:42:13; Bright; 42.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 84; 0;45840  
 15; 4669.4; 06-DEC-2010 08:47:52; Bright; 37.0; 111; 8Eta Boo ; 2.68; 6000;occ; 74; 0;45840  
 16; 4867.7; 06-DEC-2010 08:51:11; Bright; 45.0; 138; 47Eps Vir ; 2.83; 4700;occ; 90; 0;45840  
 17; 5144.0; 06-DEC-2010 08:55:47; Dark ; 52.0; 121; 29Gam Vir ; 2.74; 7200;occ; 104; 0;45840  
 18; 5500.3; 06-DEC-2010 09:01:43; Dark ; 51.0; 100; 4Gam Crv ; 2.58; 13100;occ; 102; 0;45840  
 19; 5596.7; 06-DEC-2010 09:03:20; Dark ; 55.5; 171; 2Eps Crv ; 3.00; 4250;occ; 111; 0;45840  
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 22; 6675.5; 06-DEC-2010 09:21:19; Dark ; 51.0; 34; Gam2Vel ; 1.79; 23000;occ; 102; 0;45841  
 23; 6850.5; 06-DEC-2010 09:24:14; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;45841  
 24; 6982.9; 06-DEC-2010 09:26:26; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;45841  
 25; 7225.8; 06-DEC-2010 09:30:29; Dark ; 42.0; 108; Alp Col ; 2.65; 15200;occ; 84; 0;45841  
 26; 7548.7; 06-DEC-2010 09:35:52; Dark ; 49.5; 101; 11Alp Lep ; 2.58; 7000;occ; 99; 0;45841

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 8; 2710.8; 06-DEC-2010 09:55:28; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;45841  
 9; 2873.0; 06-DEC-2010 09:58:10; Bright; 32.0; 42; 34Bet Aur ; 1.90; 10200;occ; 64; 0;45841  
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 13; 4120.3; 06-DEC-2010 10:18:57; Bright; 37.0; 39; 85Eta UMA ; 1.85; 24000;occ; 74; 0;45841  
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 19; 5597.6; 06-DEC-2010 10:43:35; Dark ; 52.5; 171; 2Eps Crv ; 3.00; 4250;occ; 105; 0;45841  
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 24; 6983.4; 06-DEC-2010 11:06:41; Dark ; 58.5; 117; Pi Pup ; 2.71; 3800;occ; 117; 0;45842  
 25; 7226.1; 06-DEC-2010 11:10:43; Dark ; 43.0; 108; Alp Col ; 2.65; 15200;occ; 86; 0;45842  
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 5; 2306.5; 06-DEC-2010 11:28:58; Bright; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;45842  
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 7; 2528.8; 06-DEC-2010 11:32:40; Bright; 44.0; 114; 3Iot Aur ; 2.69; 4600;occ; 88; 0;45842  
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 13; 4120.4; 06-DEC-2010 11:59:11; Bright; 38.5; 39; 85Eta UMA ; 1.85; 24000;occ; 77; 0;45842  
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 17; 5145.5; 06-DEC-2010 12:16:17; Dark ; 50.5; 121; 29Gam Vir ; 2.74; 7200;occ; 101; 0;45842  
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 22; 6677.4; 06-DEC-2010 12:41:49; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;45843  
 23; 6851.4; 06-DEC-2010 12:44:42; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;45843

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18; 5146.5; 06-DEC-2010 13:56:32; Dark ; 55.5; 121; 29Gam Vir ; 2.74; 7200;occ; 111; 0;45843
19; 5503.4; 06-DEC-2010 14:02:28; Dark ; 52.0; 100; 4Gam Crv ; 2.58; 13100;occ; 104; 0;45843
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 12; 3857.4; 07-DEC-2010 14:38:33; Bright; 49.5; 82; 48Bet UMa ; 2.37; 10600;occ; 99; 0;45858  
 13; 3983.8; 07-DEC-2010 14:40:39; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;45858  
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 16; 4673.9; 07-DEC-2010 14:52:09; Bright; 37.5; 111; 8Eta Boo ; 2.68; 6000;occ; 75; 0;45858  
 17; 4876.0; 07-DEC-2010 14:55:31; Bright; 64.0; 138; 47Eps Vir ; 2.83; 4700;occ; 128; 0;45858  
 18; 5157.5; 07-DEC-2010 15:00:13; Dark ; 53.5; 121; 29Gam Vir ; 2.74; 7200;occ; 107; 0;45858  
 19; 5432.9; 07-DEC-2010 15:04:48; Dark ; 43.0; 169; 46Gam Hya ; 2.99; 4700;occ; 86; 0;45858  
 20; 5518.1; 07-DEC-2010 15:06:14; Dark ; 54.5; 100; 4Gam Crv ; 2.58; 13100;occ; 109; 0;45858  
 21; 5614.4; 07-DEC-2010 15:07:50; Dark ; 50.0; 171; 2Eps Crv ; 3.00; 4250;occ; 100; 0;45858  
 22; 5969.5; 07-DEC-2010 15:13:45; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;45858  
 23; 6172.2; 07-DEC-2010 15:17:08; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;45859  
 24; 6497.4; 07-DEC-2010 15:22:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45859  
 25; 6690.5; 07-DEC-2010 15:25:46; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45859  
 26; 6858.9; 07-DEC-2010 15:28:34; Dark ; 55.0; 2; Alp Car ;-0.74; 7000;occ; 110; 0;45859  
 27; 6995.8; 07-DEC-2010 15:30:51; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;45859  
 28; 7232.1; 07-DEC-2010 15:34:48; Dark ; 46.5; 108; Alp Col ; 2.65; 15200;occ; 93; 0;45859



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1;	1537.2;	07-DEC-2010	15:40:07;	Dark	;	49.0;	101;	11Alp Lep	;	2.58;	7000;occ;	98;	0;	45859
2;	1735.8;	07-DEC-2010	15:43:25;	Dark	;	53.5;	7;	19Bet Ori	;	0.10;	14000;occ;	107;	0;	45859
3;	1891.2;	07-DEC-2010	15:46:01;	Dark	;	55.5;	30;	46Eps Ori	;	1.69;	30000;occ;	111;	0;	45859
4;	2042.4;	07-DEC-2010	15:48:32;	Dark	;	55.5;	27;	24Gam Ori	;	1.64;	26000;occ;	111;	0;	45859
5;	2192.9;	07-DEC-2010	15:51:02;	Dark	;	58.0;	13;	87Alp Tau	;	0.87;	3800;occ;	116;	0;	45859
6;	2305.6;	07-DEC-2010	15:52:55;	Bright;		37.5;	146;	25Eta Tau	;	2.87;	15200;occ;	75;	0;	45859
7;	2441.0;	07-DEC-2010	15:55:11;	Bright;		38.0;	150;	44Zet Per	;	2.89;	28000;occ;	76;	0;	45859
8;	2521.4;	07-DEC-2010	15:56:31;	Bright;		43.5;	114;	3Iot Aur	;	2.69;	4600;occ;	87;	0;	45859
9;	2708.8;	07-DEC-2010	15:59:38;	Bright;		36.5;	175;	39Del Per	;	3.01;	19400;occ;	73;	0;	45859
10;	2858.9;	07-DEC-2010	16:02:08;	Bright;		49.0;	42;	34Bet Aur	;	1.90;	10200;occ;	98;	0;	45859
11;	3765.0;	07-DEC-2010	16:17:15;	Bright;		66.0;	36;	50Alp UMa	;	1.80;	6300;occ;	132;	0;	45859
12;	3857.0;	07-DEC-2010	16:18:46;	Bright;		49.5;	82;	48Bet UMa	;	2.37;	10600;occ;	99;	0;	45859
13;	3983.6;	07-DEC-2010	16:20:53;	Bright;		41.5;	32;	77Eps UMa	;	1.76;	11000;occ;	83;	0;	45859
14;	4120.4;	07-DEC-2010	16:23:10;	Bright;		39.5;	39;	85Eta UMa	;	1.85;	24000;occ;	79;	0;	45859
15;	4330.7;	07-DEC-2010	16:26:40;	Bright;		40.5;	152;	12Alp2CVn	;	2.89;	11000;occ;	81;	0;	45859
16;	4674.2;	07-DEC-2010	16:32:24;	Bright;		56.0;	111;	8Eta Boo	;	2.68;	6000;occ;	112;	0;	45859
17;	4876.5;	07-DEC-2010	16:35:46;	Bright;		43.0;	138;	47Eps Vir	;	2.83;	4700;occ;	86;	0;	45859
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19;	5433.5;	07-DEC-2010	16:45:03;	Dark	;	43.0;	169;	46Gam Hya	;	2.99;	4700;occ;	86;	0;	45859
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21;	5615.4;	07-DEC-2010	16:48:05;	Dark	;	52.5;	171;	2Eps Crv	;	3.00;	4250;occ;	105;	0;	45859
22;	5970.1;	07-DEC-2010	16:54:00;	Dark	;	41.0;	99;	Del Cen	;	2.58;	26000;occ;	82;	0;	45859
23;	6173.1;	07-DEC-2010	16:57:23;	Dark	;	44.5;	113;	Mu Vel	;	2.69;	5000;occ;	89;	0;	45860
24;	6498.3;	07-DEC-2010	17:02:48;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	45860
25;	6691.5;	07-DEC-2010	17:06:01;	Dark	;	48.5;	34;	Gam2Vel	;	1.79;	23000;occ;	97;	0;	45860
26;	6859.4;	07-DEC-2010	17:08:49;	Dark	;	49.0;	2;	Alp Car	;	-0.74;	7000;occ;	98;	0;	45860
27;	6996.5;	07-DEC-2010	17:11:06;	Dark	;	56.0;	117;	Pi Pup	;	2.71;	3800;occ;	112;	0;	45860

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1;	1019.9;	07-DEC-2010	17:11:44;	Dark	;	56.5;	117;	Pi Pup	;	2.71;	3800;occ;	113;	75;	45860
2;	1218.4;	07-DEC-2010	17:15:02;	Dark	;	45.0;	108;	Alp Col	;	2.65;	15200;occ;	90;	0;	45860
3;	1537.3;	07-DEC-2010	17:20:21;	Dark	;	50.5;	101;	11Alp Lep	;	2.58;	7000;occ;	101;	0;	45860
4;	1735.9;	07-DEC-2010	17:23:39;	Dark	;	55.0;	7;	19Bet Ori	;	0.10;	14000;occ;	110;	0;	45860
5;	1891.1;	07-DEC-2010	17:26:15;	Dark	;	55.5;	30;	46Eps Ori	;	1.69;	30000;occ;	111;	0;	45860
6;	2042.2;	07-DEC-2010	17:28:46;	Dark	;	55.0;	27;	24Gam Ori	;	1.64;	26000;occ;	110;	0;	45860
7;	2192.5;	07-DEC-2010	17:31:16;	Dark	;	58.0;	13;	87Alp Tau	;	0.87;	3800;occ;	116;	0;	45860
8;	2305.4;	07-DEC-2010	17:33:09;	Bright;		38.0;	146;	25Eta Tau	;	2.87;	15200;occ;	76;	0;	45860
9;	2440.9;	07-DEC-2010	17:35:24;	Bright;		37.5;	150;	44Zet Per	;	2.89;	28000;occ;	75;	0;	45860
10;	2520.9;	07-DEC-2010	17:36:44;	Bright;		43.0;	114;	3Iot Aur	;	2.69;	4600;occ;	86;	0;	45860
11;	2708.7;	07-DEC-2010	17:39:52;	Bright;		35.5;	175;	39Del Per	;	3.01;	19400;occ;	71;	0;	45860
12;	2857.9;	07-DEC-2010	17:42:21;	Bright;		47.5;	42;	34Bet Aur	;	1.90;	10200;occ;	95;	0;	45860
13;	3764.6;	07-DEC-2010	17:57:28;	Bright;		45.0;	36;	50Alp UMa	;	1.80;	6300;occ;	90;	0;	45860
14;	3856.5;	07-DEC-2010	17:59:00;	Bright;		48.0;	82;	48Bet UMa	;	2.37;	10600;occ;	96;	0;	45860
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16;	4120.4;	07-DEC-2010	18:03:24;	Bright;		40.0;	39;	85Eta UMa	;	1.85;	24000;occ;	80;	0;	45860
17;	4330.9;	07-DEC-2010	18:06:55;	Bright;		40.5;	152;	12Alp2CVn	;	2.89;	11000;occ;	81;	0;	45860
18;	4674.4;	07-DEC-2010	18:12:38;	Bright;		37.5;	111;	8Eta Boo	;	2.68;	6000;occ;	75;	0;	45860
19;	4876.9;	07-DEC-2010	18:16:01;	Bright;		45.5;	138;	47Eps Vir	;	2.83;	4700;occ;	91;	0;	45860
20;	5159.0;	07-DEC-2010	18:20:43;	Dark	;	51.5;	121;	29Gam Vir	;	2.74;	7200;occ;	103;	0;	45860
21;	5434.0;	07-DEC-2010	18:25:18;	Dark	;	43.5;	169;	46Gam Hya	;	2.99;	4700;occ;	87;	0;	45860
22;	5520.1;	07-DEC-2010	18:26:44;	Dark	;	49.0;	100;	4Gam Crv	;	2.58;	13100;occ;	98;	0;	45860
23;	5616.4;	07-DEC-2010	18:28:20;	Dark	;	53.5;	171;	2Eps Crv	;	3.00;	4250;occ;	107;	0;	45860
24;	5970.6;	07-DEC-2010	18:34:14;	Dark	;	40.5;	99;	Del Cen	;	2.58;	26000;occ;	81;	0;	45860
25;	6173.8;	07-DEC-2010	18:37:37;	Dark	;	44.5;	113;	Mu Vel	;	2.69;	5000;occ;	89;	0;	45861
26;	6499.0;	07-DEC-2010	18:43:03;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	45861
27;	6692.2;	07-DEC-2010	18:46:16;	Dark	;	48.5;	34;	Gam2Vel	;	1.79;	23000;occ;	97;	0;	45861
28;	6859.9;	07-DEC-2010	18:49:03;	Dark	;	49.0;	2;	Alp Car	;	-0.74;	7000;occ;	98;	0;	45861
29;	6997.1;	07-DEC-2010	18:51:21;	Dark	;	0.5;	117;	Pi Pup	;	2.71;	3800;occ;	1;	0;	45861

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3;	1537.4;	07-DEC-2010	19:00:35;	Dark	;	50.5;	101;	11Alp Lep	;	2.58;	7000;occ;	101;	0;	45861
4;	1735.8;	07-DEC-2010	19:03:54;	Dark	;	54.0;	7;	19Bet Ori	;	0.10;	14000;occ;	108;	0;	45861
5;	1890.7;	07-DEC-2010	19:06:28;	Dark	;	52.0;	30;	46Eps Ori	;	1.69;	30000;occ;	104;	0;	45861
6;	2041.8;	07-DEC-2010	19:09:00;	Dark	;	53.0;	27;	24Gam Ori	;	1.64;	26000;occ;	106;	0;	45861
7;	2192.4;	07-DEC-2010	19:11:30;	Dark	;	58.0;	13;	87Alp Tau	;	0.87;	3800;occ;	116;	0;	45861
8;	2305.4;	07-DEC-2010	19:13:23;	Bright;		37.5;	146;	25Eta Tau	;	2.87;	15200;occ;	75;	0;	45861
9;	2440.9;	07-DEC-2010	19:15:39;	Bright;		38.0;	150;	44Zet Per	;	2.89;	28000;occ;	76;	0;	45861

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14; 3856.2; 07-DEC-2010 19:39:14; Bright; 50.5; 82; 48Bet UMa ; 2.37; 10600;occ; 101; 0;45861
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19; 4877.4; 07-DEC-2010 19:56:15; Bright; 46.5; 138; 47Eps Vir ; 2.83; 4700;occ; 93; 0;45861
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11; -374.8; 09-DEC-2010 07:13:51; Dark ; 56.5; 171; 2Eps Crv ; 3.00; 4250;occ; 113; 0;45882
12; -30.0; 09-DEC-2010 07:19:36; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;45882
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 26; 6901.9; 14-DEC-2010 14:32:40; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;45959  
 27; 7060.3; 14-DEC-2010 14:35:18; Dark ; 56.5; 117; Pi Pup ; 2.71; 3800;occ; 113; 0;45959  
 28; 7257.7; 14-DEC-2010 14:38:36; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;45959

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 17; 2177.9; 15-DEC-2010 00:55:34; Dark ; 47.5; 13; 87Alp Tau ; 0.87; 3800;occ; 95; 0;45965  
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 21; 2786.4; 15-DEC-2010 01:05:43; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;45965  
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 27; 4703.0; 15-DEC-2010 01:37:39; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;45965  
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 13; 1523.4; 15-DEC-2010 02:24:54; Dark ; 56.0; 47; 2Bet CMA ; 1.98; 28000;occ; 112; 0;45966  
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27; 2656.2; 15-DEC-2010 04:24:01; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;45967
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23; 1873.6; 15-DEC-2010 05:51:12; Dark ; 50.0; 30; 46Eps Ori ; 1.69; 30000;occ; 100; 0;45968
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6; 33.4; 16-DEC-2010 01:23:20; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;45980
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53; 8661.6; 16-DEC-2010 03:47:08; Bright; 44.5; 107; 37The Aur ; 2.65; 11000;occ; 89; 0;45981
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15; 1527.0; 16-DEC-2010 21:51:02; Dark ; 50.5; 47; 2Bet CMA ; 1.98; 28000;occ; 101; 0;45992
16; 1738.5; 16-DEC-2010 21:54:33; Dark ; 47.0; 7; 19Bet Ori ; 0.10; 14000;occ; 94; 0;45992
17; 1871.0; 16-DEC-2010 21:56:46; Dark ; 48.0; 30; 46Eps Ori ; 1.69; 30000;occ; 96; 0;45992
18; 2056.3; 16-DEC-2010 21:59:51; Dark ; 57.5; 14; 58Alp Ori ; 0.87; 3000;occ; 115; 0;45992
19; 2176.2; 16-DEC-2010 22:01:51; Dark ; 47.0; 13; 87Alp Tau ; 0.87; 3800;occ; 94; 0;45992
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21; 2428.2; 16-DEC-2010 22:06:03; Bright; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 0;45992
22; 2640.4; 16-DEC-2010 22:09:35; Bright; 45.0; 107; 37The Aur ; 2.65; 11000;occ; 90; 0;45992
23; 2771.1; 16-DEC-2010 22:11:46; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;45992
24; 3685.5; 16-DEC-2010 22:27:01; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;45992
25; 3958.8; 16-DEC-2010 22:31:34; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;45992
26; 4115.6; 16-DEC-2010 22:34:11; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;45992
27; 4317.9; 16-DEC-2010 22:37:33; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;45992
28; 4511.2; 16-DEC-2010 22:40:46; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;45992
29; 4711.4; 16-DEC-2010 22:44:06; Bright; 61.0; 111; 8Eta Boo ; 2.68; 6000;occ; 122; 0;45992
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5; 42.5; 16-DEC-2010 23:06:31; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;45993
6; 274.6; 16-DEC-2010 23:10:24; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45993
7; 498.0; 16-DEC-2010 23:14:07; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;45993
8; 587.3; 16-DEC-2010 23:15:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45993
9; 777.5; 16-DEC-2010 23:18:46; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;45993
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11; 1065.4; 16-DEC-2010 23:23:34; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;45993
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13; 1363.9; 16-DEC-2010 23:28:33; Dark ; 34.0; 179; 240mi2CMA ; 3.03; 24000;occ; 68; 0;45993
14; 1527.2; 16-DEC-2010 23:31:16; Dark ; 50.5; 47; 2Bet CMA ; 1.98; 28000;occ; 101; 0;45993
15; 1738.4; 16-DEC-2010 23:34:47; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;45993
16; 1871.0; 16-DEC-2010 23:37:00; Dark ; 48.0; 30; 46Eps Ori ; 1.69; 30000;occ; 96; 0;45993
17; 2056.0; 16-DEC-2010 23:40:05; Dark ; 59.0; 14; 58Alp Ori ; 0.87; 3000;occ; 118; 0;45993
18; 2176.2; 16-DEC-2010 23:42:05; Dark ; 46.5; 13; 87Alp Tau ; 0.87; 3800;occ; 93; 0;45993

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

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 4;-1504.2; 16-DEC-2010 07:38:39; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;45983  
 5;-1305.3; 16-DEC-2010 07:41:57; Bright; 41.0; 111; 8Eta Boo ; 2.68; 6000;occ; 82; 0;45983  
 6;-1067.7; 16-DEC-2010 07:45:55; Bright; 59.0; 138; 47Eps Vir ; 2.83; 4700;occ; 118; 0;45983  
 7; -709.4; 16-DEC-2010 07:51:53; Dark ; 50.0; 15; 67Alp Vir ; 0.98; 28000;occ; 100; 0;45983  
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 9; -349.7; 16-DEC-2010 07:57:53; Dark ; 53.5; 106; 9Bet Crv ; 2.65; 5600;occ; 107; 0;45983  
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 13; 266.9; 16-DEC-2010 08:08:10; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45984  
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 18; 1060.8; 16-DEC-2010 08:21:24; Dark ; 56.5; 117; Pi Pup ; 2.71; 3800;occ; 113; 0;45984  
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 21; 1526.2; 16-DEC-2010 08:29:09; Dark ; 53.5; 47; 2Bet CMa ; 1.98; 28000;occ; 107; 0;45984

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 5; 2308.7; 16-DEC-2010 08:42:11; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;45984  
 6; 2431.4; 16-DEC-2010 08:44:14; Bright; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;45984  
 7; 2645.6; 16-DEC-2010 08:47:48; Bright; 44.5; 107; 37The Aur ; 2.65; 11000;occ; 89; 0;45984  
 8; 2775.7; 16-DEC-2010 08:49:59; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;45984  
 9; 3685.8; 16-DEC-2010 09:05:09; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;45984  
 10; 3960.7; 16-DEC-2010 09:09:44; Bright; 44.0; 32; 77Eps UMa ; 1.76; 11000;occ; 88; 0;45984  
 11; 4116.4; 16-DEC-2010 09:12:19; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;45984  
 12; 4317.2; 16-DEC-2010 09:15:40; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;45984  
 13; 4510.0; 16-DEC-2010 09:18:53; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;45984  
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 16; 5305.3; 16-DEC-2010 09:32:08; Dark ; 52.0; 15; 67Alp Vir ; 0.98; 28000;occ; 104; 0;45984  
 17; 5514.8; 16-DEC-2010 09:35:38; Dark ; 49.0; 169; 46Gam Hya ; 2.99; 4700;occ; 98; 0;45984  
 18; 5665.3; 16-DEC-2010 09:38:08; Dark ; 54.0; 106; 9Bet Crv ; 2.65; 5600;occ; 108; 0;45984  
 19; 5761.4; 16-DEC-2010 09:39:44; Dark ; 57.5; 171; 2Eps Crv ; 3.00; 4250;occ; 115; 0;45984  
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 22; 6281.6; 16-DEC-2010 09:48:24; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45985  
 23; 6507.0; 16-DEC-2010 09:52:10; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;45985  
 24; 6595.3; 16-DEC-2010 09:53:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45985  
 25; 6786.1; 16-DEC-2010 09:56:49; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45985  
 26; 6912.8; 16-DEC-2010 09:58:56; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;45985  
 27; 7075.1; 16-DEC-2010 10:01:38; Dark ; 50.0; 117; Pi Pup ; 2.71; 3800;occ; 100; 0;45985  
 28; 7218.6; 16-DEC-2010 10:04:01; Dark ; 34.0; 88; 31Eta CMa ; 2.45; 20000;occ; 68; 0;45985  
 29; 7310.0; 16-DEC-2010 10:05:33; Dark ; 53.0; 37; 25Del CMa ; 1.83; 5900;occ; 106; 0;45985  
 30; 7540.3; 16-DEC-2010 10:09:23; Dark ; 51.0; 47; 2Bet CMa ; 1.98; 28000;occ; 102; 0;45985

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6; 2308.0; 16-DEC-2010 10:22:25; Bright; 42.5; 176; 23Zet Tau ; 3.02; 22000;occ; 85; 0;45985  
7; 2431.1; 16-DEC-2010 10:24:28; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;45985  
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12; 4116.3; 16-DEC-2010 10:52:33; Bright; 51.0; 39; 85Eta UMa ; 1.85; 24000;occ; 102; 0;45985  
13; 4317.3; 16-DEC-2010 10:55:54; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;45985  
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15; 4709.3; 16-DEC-2010 11:02:26; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;45985  
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17; 5306.0; 16-DEC-2010 11:12:23; Dark ; 59.0; 15; 67Alp Vir ; 0.98; 28000;occ; 118; 0;45985  
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19; 5666.4; 16-DEC-2010 11:18:23; Dark ; 52.0; 106; 9Bet Crv ; 2.65; 5600;occ; 104; 0;45985  
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22; 6051.7; 16-DEC-2010 11:24:49; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;45986  
23; 6282.4; 16-DEC-2010 11:28:39; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45986  
24; 6507.7; 16-DEC-2010 11:32:24; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;45986  
25; 6596.0; 16-DEC-2010 11:33:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45986  
26; 6786.7; 16-DEC-2010 11:37:04; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;45986  
27; 6913.6; 16-DEC-2010 11:39:10; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0;45986  
28; 7075.6; 16-DEC-2010 11:41:52; Dark ; 54.5; 117; Pi Pup ; 2.71; 3800;occ; 109; 0;45986  
29; 7219.1; 16-DEC-2010 11:44:16; Dark ; 38.0; 88; 31Eta CMA ; 2.45; 20000;occ; 76; 0;45986  
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31; 7540.4; 16-DEC-2010 11:49:37; Dark ; 16.0; 47; 2Bet CMA ; 1.98; 28000;occ; 32; 0;45986

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5; 2176.6; 16-DEC-2010 12:00:27; Dark ; 49.5; 13; 87Alp Tau ; 0.87; 3800;occ; 99; 0;45986  
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13; 4317.3; 16-DEC-2010 12:36:08; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;45986  
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22; 6052.3; 16-DEC-2010 13:05:03; Dark ; 42.5; 99; Del Cen ; 2.58; 26000;occ; 85; 0;45987  
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27; 6914.4; 16-DEC-2010 13:19:25; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0;45987  
28; 7076.2; 16-DEC-2010 13:22:07; Dark ; 58.5; 117; Pi Pup ; 2.71; 3800;occ; 117; 0;45987  
29; 7219.7; 16-DEC-2010 13:24:30; Dark ; 38.0; 88; 31Eta CMA ; 2.45; 20000;occ; 76; 0;45987  
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31; 7540.6; 16-DEC-2010 13:29:51; Dark ; 31.0; 47; 2Bet CMA ; 1.98; 28000;occ; 62; 0;45987

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6; 2307.4; 16-DEC-2010 13:42:52; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;45987  
7; 2430.3; 16-DEC-2010 13:44:55; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;45987

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8; 2643.7; 16-DEC-2010 13:48:28; Bright; 45.0; 107; 37The Aur ; 2.65; 11000;occ; 90; 0;45987
9; 2773.9; 16-DEC-2010 13:50:39; Bright; 44.0; 42; 34Bet Aur ; 1.90; 10200;occ; 88; 0;45987
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13; 4317.7; 16-DEC-2010 14:16:22; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;45987
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16; 4949.2; 16-DEC-2010 14:26:54; Bright; 42.0; 138; 47Eps Vir ; 2.83; 4700;occ; 84; 0;45987
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23; 6284.3; 16-DEC-2010 14:49:09; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;45988
24; 6509.0; 16-DEC-2010 14:52:54; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;45988
25; 6597.6; 16-DEC-2010 14:54:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45988
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27; 6915.4; 16-DEC-2010 14:59:40; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;45988
28; 7077.0; 16-DEC-2010 15:02:22; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;45988
29; 7270.2; 16-DEC-2010 15:05:35; Dark ; 51.5; 23; 21Eps CMa ; 1.50; 26000;occ; 103; 0;45988
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13; 4317.9; 16-DEC-2010 15:56:37; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;45988
14; 4510.7; 16-DEC-2010 15:59:50; Bright; 35.0; 83; ; 2.38; 11000;occ; 70; 0;45988
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22; 6053.9; 16-DEC-2010 16:25:33; Dark ; 42.5; 99; Del Cen ; 2.58; 26000;occ; 85; 0;45989
23; 6285.4; 16-DEC-2010 16:29:24; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;45989
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25; 6598.5; 16-DEC-2010 16:34:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45989
26; 6789.0; 16-DEC-2010 16:37:48; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;45989
27; 6916.1; 16-DEC-2010 16:39:55; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;45989
28; 7077.6; 16-DEC-2010 16:42:36; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;45989
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7; 2176.5; 16-DEC-2010 17:01:09; Dark ; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;45989
8; 2306.5; 16-DEC-2010 17:03:19; Bright; 47.0; 176; 23Zet Tau ; 3.02; 22000;occ; 94; 0;45989
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12; 3685.7; 16-DEC-2010 17:26:19; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;45989
13; 3959.8; 16-DEC-2010 17:30:53; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;45989
14; 4116.0; 16-DEC-2010 17:33:29; Bright; 42.0; 39; 85Eta UMa ; 1.85; 24000;occ; 84; 0;45989

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 19; 5309.0; 16-DEC-2010 17:53:22; Dark ; 51.5; 15; 67Alp Vir ; 0.98; 28000;occ; 103; 0;45989  
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 22; 5768.1; 16-DEC-2010 18:01:01; Dark ; 46.0; 171; 2Eps Crv ; 3.00; 4250;occ; 92; 0;45989  
 23; 5956.4; 16-DEC-2010 18:04:09; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;45989  
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 27; 6599.2; 16-DEC-2010 18:14:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45990  
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 29; 6916.7; 16-DEC-2010 18:20:10; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;45990  
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 5; 43.0; 17-DEC-2010 00:46:46; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;45994  
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 7; 498.6; 17-DEC-2010 00:54:22; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;45994  
 8; 588.1; 17-DEC-2010 00:55:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45994  
 9; 778.2; 17-DEC-2010 00:59:01; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;45994  
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 12; 1258.4; 17-DEC-2010 01:07:01; Dark ; 52.5; 23; 21Eps CMa ; 1.50; 26000;occ; 105; 0;45994  
 13; 1364.4; 17-DEC-2010 01:08:47; Dark ; 39.0; 179; 240mi2CMa ; 3.03; 24000;occ; 78; 0;45994  
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 25; 4115.5; 17-DEC-2010 01:54:38; Bright; 43.0; 39; 85Eta UMa ; 1.85; 24000;occ; 86; 0;45994  
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 28; 4712.1; 17-DEC-2010 02:04:35; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;45994

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 13; 1527.6; 17-DEC-2010 02:51:44; Dark ; 52.5; 47; 2Bet CMa ; 1.98; 28000;occ; 105; 0;45995  
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23; 1870.9; 17-DEC-2010 04:37:42; Dark ; 47.5; 30; 46Eps Ori ; 1.69; 30000;occ; 95; 0;45996  
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27; 4514.1; 18-DEC-2010 01:24:33; Bright; 43.0; 83; ; 2.38; 11000;occ; 86; 0;46008
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28; 7380.7; 17-DEC-2010 12:50:28; Dark ; 52.5; 179; 240mi2Cma ; 3.03; 24000;occ; 105; 0;46001
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9; 2766.3; 17-DEC-2010 13:13:47; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;46001  
10; 3685.4; 17-DEC-2010 13:29:06; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;46001  
11; 3956.7; 17-DEC-2010 13:33:38; Bright; 44.0; 32; 77Eps UMa ; 1.76; 11000;occ; 88; 0;46001  
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21; 6296.8; 17-DEC-2010 14:12:38; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;46002  
22; 6517.8; 17-DEC-2010 14:16:19; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;46002  
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27; 7275.8; 17-DEC-2010 14:28:57; Dark ; 52.5; 23; 21Eps CMa ; 1.50; 26000;occ; 105; 0;46002  
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13; 4318.9; 17-DEC-2010 15:19:54; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;46002  
14; 4513.2; 17-DEC-2010 15:23:08; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;46002  
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17; 5608.6; 17-DEC-2010 15:41:24; Dark ; 28.0; 163; 7Del Crv ; 2.94; 11000;occ; 56; 0;46002  
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22; 6518.4; 17-DEC-2010 15:56:34; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;46003  
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9; 2634.5; 17-DEC-2010 16:32:04; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;46003  
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11; 3685.2; 17-DEC-2010 16:49:34; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;46003  
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13; 4115.3; 17-DEC-2010 16:56:44; Bright; 42.0; 39; 85Eta UMa ; 1.85; 24000;occ; 84; 0;46003  
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21; 6064.4; 17-DEC-2010 17:29:14; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;46004
22; 6298.7; 17-DEC-2010 17:33:08; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46004
23; 6518.9; 17-DEC-2010 17:36:48; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46004
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17; 4513.4; 17-DEC-2010 18:43:37; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;46004
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23; 6065.1; 17-DEC-2010 19:09:28; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;46005
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22; 6636.7; 20-DEC-2010 09:07:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46042  
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27; 7292.5; 20-DEC-2010 14:19:17; Dark ; 52.5; 23; 21Eps CMa ; 1.50; 26000;occ; 105; 0;46045  
28; 7394.4; 20-DEC-2010 14:20:59; Dark ; 52.5; 179; 240mi2CMa ; 3.03; 24000;occ; 105; 0;46045

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7; 2411.5; 20-DEC-2010 14:38:10; Bright; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 0;46045  
8; 2612.3; 20-DEC-2010 14:41:31; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;46045  
9; 2705.6; 20-DEC-2010 14:43:04; Bright; 44.5; 6; 13Alp Aur ; 0.08; 3400;occ; 89; 0;46045  
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12; 4111.7; 20-DEC-2010 15:06:30; Bright; 42.5; 39; 85Eta UMa ; 1.85; 24000;occ; 85; 0;46045  
13; 4322.4; 20-DEC-2010 15:10:01; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;46045  
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 22; 6544.4; 20-DEC-2010 15:47:03; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;46046  
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 25; 6956.7; 20-DEC-2010 15:53:55; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;46046  
 26; 7107.4; 20-DEC-2010 15:56:26; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;46046  
 27; 7292.8; 20-DEC-2010 15:59:31; Dark ; 51.0; 23; 21Eps CMa ; 1.50; 26000;occ; 102; 0;46046

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 3; 1550.2; 20-DEC-2010 16:04:03; Dark ; 61.5; 1; 9Alp CMa ;-1.44; 11000;occ; 123; 0;46046  
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 5; 1867.9; 20-DEC-2010 16:09:20; Dark ; 48.0; 30; 46Eps Ori ; 1.69; 30000;occ; 96; 0;46046  
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 13; 4111.4; 20-DEC-2010 16:46:44; Bright; 42.0; 39; 85Eta UMa ; 1.85; 24000;occ; 84; 0;46046  
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 24; 6640.4; 20-DEC-2010 17:28:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46047  
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 19; 5355.7; 20-DEC-2010 18:47:42; Dark ; 53.0; 15; 67Alp Vir ; 0.98; 28000;occ; 106; 0;46047  
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 22; 5994.6; 20-DEC-2010 18:58:21; Dark ; 42.5; 64; Gam Cen ; 2.20; 10600;occ; 85; 0;46047  
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22; 5740.1; 20-DEC-2010 20:34:21; Dark ; 60.5; 106; 9Bet Crv ; 2.65; 5600;occ; 121; 0;46048
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13; 3937.3; 22-DEC-2010 17:10:37; Bright; 45.5; 32; 77Eps UMa ; 1.76; 11000;occ; 91; 0;46075
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 27; 4747.3; 23-DEC-2010 23:28:19; Bright; 67.0; 111; 8Eta Boo ; 2.68; 6000;occ; 134; 0;46093  
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25; 7174.4; 31-DEC-2010 10:53:47; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;46201
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13; 4331.0; 31-DEC-2010 15:07:05; Bright; 46.0; 180; 27Gam Boo ; 3.04; 8000;occ; 92; 0;46203
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 17; 5168.7; 31-DEC-2010 17:01:17; Bright; 56.0; 104; 27Bet Lib ; 2.61; 13100;occ; 112; 0;46204  
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 22; 6112.9; 31-DEC-2010 18:57:15; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;46206  
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5;	1569.9;	31-DEC-2010	19:21:46;	Dark	;	48.0;	1;	9Alp CMa	;	-1.44;	11000;occ;	96;	0;46206
6;	1719.2;	31-DEC-2010	19:24:16;	Dark	;	42.0;	56;	53Kap Ori	;	2.07;	30000;occ;	84;	0;46206
7;	1869.3;	31-DEC-2010	19:26:46;	Dark	;	44.5;	30;	46Eps Ori	;	1.69;	30000;occ;	89;	0;46206
8;	2020.2;	31-DEC-2010	19:29:17;	Dark	;	55.0;	14;	58Alp Ori	;	0.87;	3000;occ;	110;	0;46206
9;	2215.8;	31-DEC-2010	19:32:32;	Dark	;	57.0;	44;	24Gam Gem	;	1.93;	11000;occ;	114;	0;46206
10;	2313.6;	31-DEC-2010	19:34:10;	Bright;	;	47.5;	151;	13Mu Gem	;	2.89;	3000;occ;	95;	0;46206
11;	2552.7;	31-DEC-2010	19:38:09;	Bright;	;	39.0;	107;	37The Aur	;	2.65;	11000;occ;	78;	0;46206
12;	2677.7;	31-DEC-2010	19:40:14;	Bright;	;	41.0;	6;	13Alp Aur	;	0.08;	3400;occ;	82;	0;46206
13;	3672.2;	31-DEC-2010	19:56:49;	Bright;	;	35.0;	60;	7Bet UMi	;	2.08;	3950;occ;	70;	0;46206
14;	3891.1;	31-DEC-2010	20:00:28;	Bright;	;	49.5;	32;	77Eps UMa	;	1.76;	11000;occ;	99;	0;46206
15;	4087.7;	31-DEC-2010	20:03:44;	Bright;	;	66.0;	39;	85Eta UMa	;	1.85;	24000;occ;	132;	0;46206
16;	4330.9;	31-DEC-2010	20:07:47;	Bright;	;	62.0;	180;	27Gam Boo	;	3.04;	8000;occ;	124;	0;46206
17;	4551.4;	31-DEC-2010	20:11:28;	Bright;	;	62.0;	83;		;	2.38;	11000;occ;	124;	0;46206
18;	4746.2;	31-DEC-2010	20:14:43;	Bright;	;	53.5;	3;	16Alp Boo	;	-0.05;	4250;occ;	107;	0;46206
19;	5169.6;	31-DEC-2010	20:21:46;	Bright;	;	56.0;	104;	27Bet Lib	;	2.61;	13100;occ;	112;	0;46206
20;	5327.7;	31-DEC-2010	20:24:24;	Dark	;	45.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	91;	0;46206
21;	5739.5;	31-DEC-2010	20:31:16;	Dark	;	48.5;	54;	5The Cen	;	2.06;	4500;occ;	97;	0;46206
22;	5904.9;	31-DEC-2010	20:34:01;	Dark	;	42.0;	95;	Zet Cen	;	2.55;	26000;occ;	84;	0;46206
23;	6113.8;	31-DEC-2010	20:37:30;	Dark	;	44.5;	64;	Gam Cen	;	2.20;	10600;occ;	89;	0;46207
24;	6222.7;	31-DEC-2010	20:39:19;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;46207
25;	6482.0;	31-DEC-2010	20:43:38;	Dark	;	46.5;	113;	Mu Vel	;	2.69;	5000;occ;	93;	0;46207
26;	6636.4;	31-DEC-2010	20:46:13;	Dark	;	45.0;	71;	Iot Car	;	2.25;	7700;occ;	90;	0;46207
27;	6750.2;	31-DEC-2010	20:48:07;	Dark	;	42.5;	46;	Del Vel	;	1.95;	10600;occ;	85;	0;46207
28;	6921.0;	31-DEC-2010	20:50:57;	Dark	;	48.0;	34;	Gam2Vel	;	1.79;	23000;occ;	96;	0;46207
29;	7051.8;	31-DEC-2010	20:53:08;	Dark	;	23.5;	70;	Zet Pup	;	2.25;	39000;occ;	47;	0;46207