

# GOMOS Daily Report 19-DEC-2009

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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	21DEC2009 04:36:46
Data source version	GOMOS/5.00L04
Start time of products	19DEC2009 00:00:12
Stop time of products	19DEC2009 23:58:14
Store outputs in DB	Yes
Nb of level 1b prods	156
Nb of prods with errors	0

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

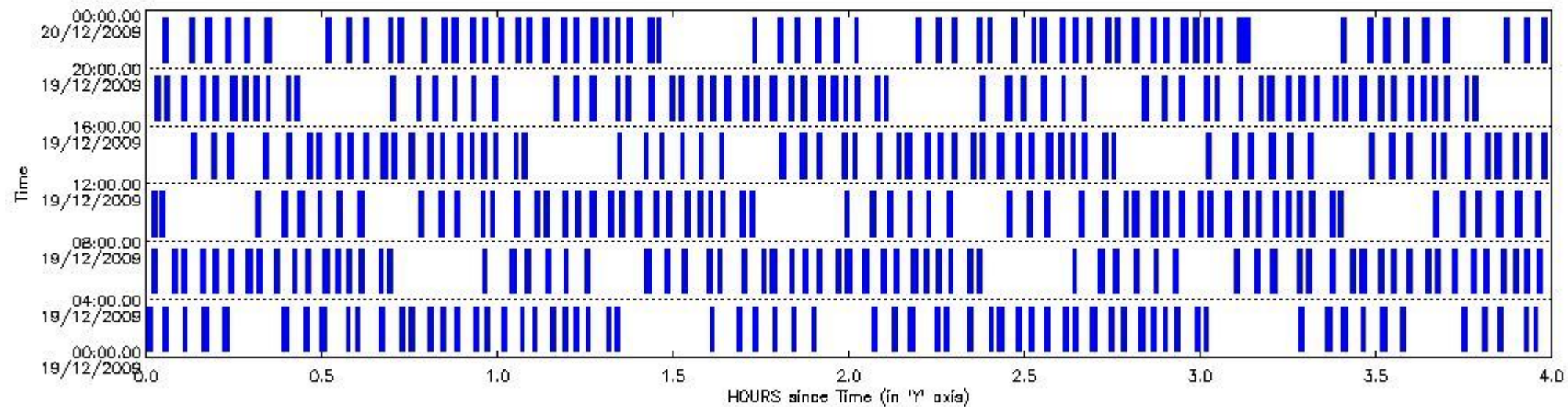
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

No missing products.

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

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091219_000012_000000442085_00159_40794_9241.N1	19-DEC-2009 00:00:12	Bright	44.000	32	77Eps UMa	1.7630	11000.	88	40794	No
2	GOM_TRA_1PNPDE20091219_000254_000000402085_00159_40794_9242.N1	19-DEC-2009 00:02:54	Bright	40.000	39	85Eta UMa	1.8540	24000.	80	40794	No
3	GOM_TRA_1PNPDE20091219_000621_000000372085_00159_40794_9243.N1	19-DEC-2009 00:06:21	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	40794	No
4	GOM_TRA_1PNPDE20091219_000937_000000552085_00159_40794_9244.N1	19-DEC-2009 00:09:37	Bright	55.000	83		2.3780	11000.	110	40794	No
5	GOM_TRA_1PNPDE20091219_001303_000000622085_00159_40794_9245.N1	19-DEC-2009 00:13:03	Bright	62.000	111	8Eta Boo	2.6800	6000.0	124	40794	No
6	GOM_TRA_1PNPDE20091219_002319_000000542085_00159_40794_9236.N1	19-DEC-2009 00:23:19	Twilight_stray	53.500	15	67Alp Vir	0.97600	28000.	107	40794	No
7	GOM_TRA_1PNPDE20091219_002650_000000492085_00159_40794_9237.N1	19-DEC-2009 00:26:50	Dark	48.500	169	46Gam Hya	2.9910	4700.0	97	40794	No
8	GOM_TRA_1PNPDE20091219_002934_000000642085_00159_40794_9238.N1	19-DEC-2009 00:29:34	Dark	64.000	106	9Bet Crv	2.6480	5600.0	128	40794	No
9	GOM_TRA_1PNPDE20091219_003403_000000462085_00159_40794_9239.N1	19-DEC-2009 00:34:03	Dark	45.500	64	Gam Cen	2.2000	10600.	91	40794	No
10	GOM_TRA_1PNPDE20091219_003544_000000442085_00160_40795_9240.N1	19-DEC-2009 00:35:44	Dark	43.500	99	Del Cen	2.5750	26000.	87	40795	No
11	GOM_TRA_1PNPDE20091219_003943_000000472085_00160_40795_9241.N1	19-DEC-2009 00:39:43	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	40795	No
12	GOM_TRA_1PNPDE20091219_004318_000000472085_00160_40795_9242.N1	19-DEC-2009 00:43:18	Dark	47.000	71	Iot Car	2.2460	7700.0	94	40795	No

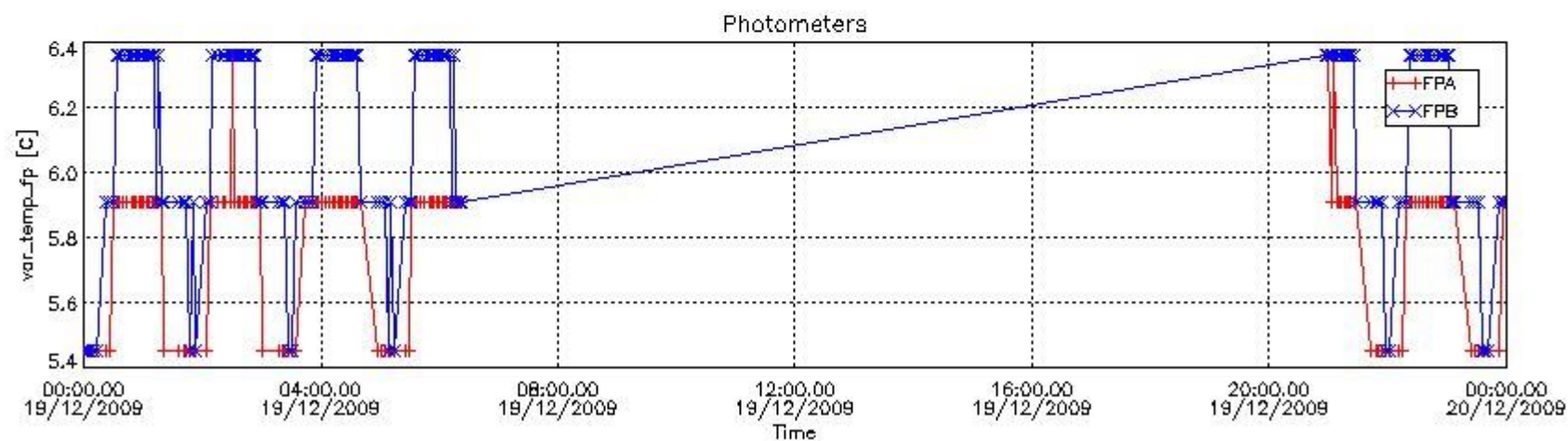
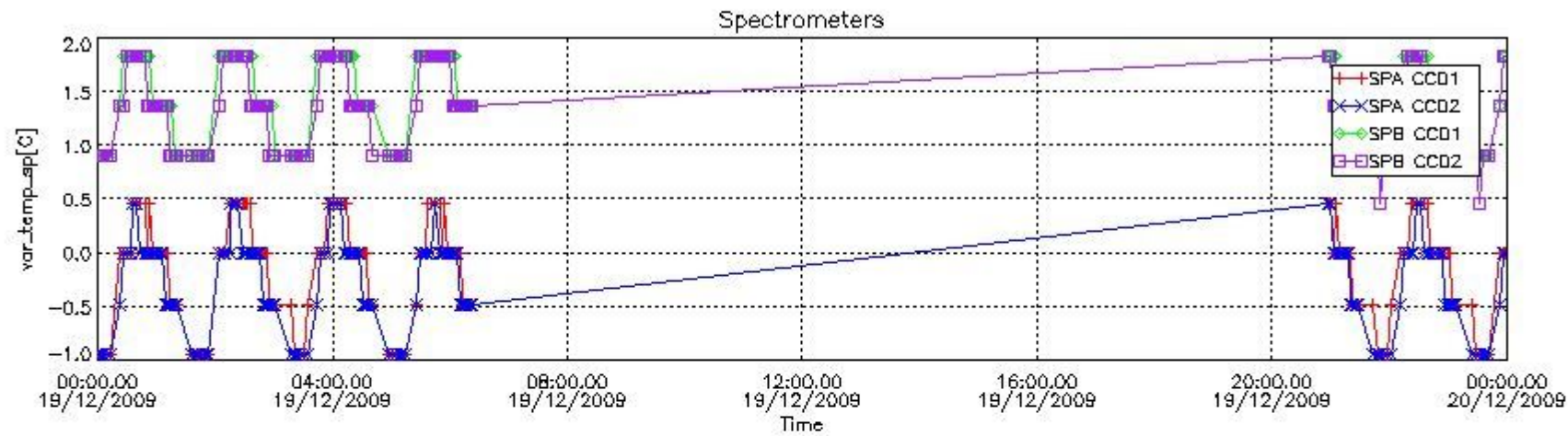
13	GOM_TRA_1PNPDE20091219_004801_000000462085_00160_40795_9243.N1	19-DEC-2009 00:48:01	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	40795	No
14	GOM_TRA_1PNPDE20091219_005011_000000522085_00160_40795_9244.N1	19-DEC-2009 00:50:11	Dark	51.500	70	Zet Pup	2.2460	39000.	103	40795	No
15	GOM_TRA_1PNPDE20091219_005246_000000502085_00160_40795_9245.N1	19-DEC-2009 00:52:46	Dark	49.500	117	Pi Pup	2.7060	3800.0	99	40795	No
16	GOM_TRA_1PNPDE20091219_005556_000000502085_00160_40795_9246.N1	19-DEC-2009 00:55:56	Straylight	50.000	23	21Eps CMa	1.5020	26000.	100	40795	No
17	GOM_TRA_1PNPDE20091219_005740_000000542085_00160_40795_9247.N1	19-DEC-2009 00:57:40	Straylight	53.500	179	24Omi2CMa	3.0320	24000.	107	40795	No
18	GOM_TRA_1PNPDE20091219_010034_000000602085_00160_40795_9248.N1	19-DEC-2009 01:00:34	Straylight	60.000	1	9Alp CMa	-1.4400	11000.	120	40795	No
19	GOM_TRA_1PNPDE20091219_010347_000000452085_00160_40795_9249.N1	19-DEC-2009 01:03:47	Straylight	45.000	7	19Bet Ori	0.10000	14000.	90	40795	No
20	GOM_TRA_1PNPDE20091219_010556_000000472085_00160_40795_9250.N1	19-DEC-2009 01:05:56	Straylight	47.000	30	46Eps Ori	1.6940	30000.	94	40795	No
21	GOM_TRA_1PNPDE20091219_010856_000000602085_00160_40795_9251.N1	19-DEC-2009 01:08:56	Twilight_stray	59.500	14	58Alp Ori	0.87000	3000.0	119	40795	No
22	GOM_TRA_1PNPDE20091219_011103_000000522085_00160_40795_9252.N1	19-DEC-2009 01:11:03	Twilight_stray	52.000	13	87Alp Tau	0.86700	3800.0	104	40795	No
23	GOM_TRA_1PNPDE20091219_011304_000000432085_00160_40795_9253.N1	19-DEC-2009 01:13:04	Bright	43.000	176	23Zet Tau	3.0200	22000.	86	40795	No
24	GOM_TRA_1PNPDE20091219_011508_000000432085_00160_40795_9254.N1	19-DEC-2009 01:15:08	Bright	42.500	28	12Bet Tau	1.6500	15200.	85	40795	No
25	GOM_TRA_1PNPDE20091219_011834_000000422085_00160_40795_9255.N1	19-DEC-2009 01:18:34	Bright	42.000	107	37The Aur	2.6490	11000.	84	40795	No
26	GOM_TRA_1PNPDE20091219_012002_000000452085_00160_40795_9256.N1	19-DEC-2009 01:20:02	Bright	44.500	6	13Alp Aur	0.080000	3400.0	89	40795	No
27	GOM_TRA_1PNPDE20091219_013618_000000382085_00160_40795_9257.N1	19-DEC-2009 01:36:18	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	40795	No
28	GOM_TRA_1PNPDE20091219_014047_000000562085_00160_40795_9258.N1	19-DEC-2009 01:40:47	Bright	55.500	32	77Eps UMa	1.7630	11000.	111	40795	No
29	GOM_TRA_1PNPDE20091219_014329_000000542085_00160_40795_9259.N1	19-DEC-2009 01:43:29	Bright	53.500	39	85Eta UMa	1.8540	24000.	107	40795	No
30	GOM_TRA_1PNPDE20091219_014657_000000372085_00160_40795_9260.N1	19-DEC-2009 01:46:57	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	40795	No
31	GOM_TRA_1PNPDE20091219_015013_000000422085_00160_40795_9261.N1	19-DEC-2009 01:50:13	Bright	42.000	83		2.3780	11000.	84	40795	No
32	GOM_TRA_1PNPDE20091219_015340_000000432085_00160_40795_9262.N1	19-DEC-2009 01:53:40	Bright	42.500	111	8Eta Boo	2.6800	6000.0	85	40795	No
33	GOM_TRA_1PNPDE20091219_020356_000000502085_00160_40795_9255.N1	19-DEC-2009 02:03:56	Twilight_stray	49.500	15	67Alp Vir	0.97600	28000.	99	40795	No
34	GOM_TRA_1PNPDE20091219_020726_000000492085_00160_40795_9256.N1	19-DEC-2009 02:07:26	Dark	49.000	169	46Gam Hya	2.9910	4700.0	98	40795	No
35	GOM_TRA_1PNPDE20091219_021011_000000542085_00160_40795_9257.N1	19-DEC-2009 02:10:11	Dark	53.500	106	9Bet Crv	2.6480	5600.0	107	40795	No
36	GOM_TRA_1PNPDE20091219_021440_000000412085_00160_40795_9258.N1	19-DEC-2009 02:14:40	Dark	41.000	64	Gam Cen	2.2000	10600.	82	40795	No
37	GOM_TRA_1PNPDE20091219_021621_000000442085_00161_40796_9259.N1	19-DEC-2009 02:16:21	Dark	44.000	99	Del Cen	2.5750	26000.	88	40796	No
38	GOM_TRA_1PNPDE20091219_022020_000000462085_00161_40796_9260.N1	19-DEC-2009 02:20:20	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	40796	No
39	GOM_TRA_1PNPDE20091219_022355_000000412085_00161_40796_9261.N1	19-DEC-2009 02:23:55	Dark	41.000	71	lot Car	2.2460	7700.0	82	40796	No
40	GOM_TRA_1PNPDE20091219_022838_000000512085_00161_40796_9262.N1	19-DEC-2009 02:28:38	Dark	51.000	34	Gam2Vel	1.7930	23000.	102	40796	No
41	GOM_TRA_1PNPDE20091219_023047_000000502085_00161_40796_9263.N1	19-DEC-2009 02:30:47	Dark	49.500	70	Zet Pup	2.2460	39000.	99	40796	No
42	GOM_TRA_1PNPDE20091219_023323_000000522085_00161_40796_9264.N1	19-DEC-2009 02:33:23	Dark	51.500	117	Pi Pup	2.7060	3800.0	103	40796	No
43	GOM_TRA_1PNPDE20091219_023632_000000532085_00161_40796_9265.N1	19-DEC-2009 02:36:32	Straylight	53.000	23	21Eps CMa	1.5020	26000.	106	40796	No
44	GOM_TRA_1PNPDE20091219_023816_000000512085_00161_40796_9266.N1	19-DEC-2009 02:38:16	Straylight	51.000	179	24Omi2CMa	3.0320	24000.	102	40796	No
45	GOM_TRA_1PNPDE20091219_024111_000000592085_00161_40796_9267.N1	19-DEC-2009 02:41:11	Straylight	59.000	1	9Alp CMa	-1.4400	11000.	118	40796	No
46	GOM_TRA_1PNPDE20091219_024423_000000482085_00161_40796_9268.N1	19-DEC-2009 02:44:23	Straylight	47.500	7	19Bet Ori	0.10000	14000.	95	40796	No
47	GOM_TRA_1PNPDE20091219_024632_000000482085_00161_40796_9269.N1	19-DEC-2009 02:46:32	Straylight	47.500	30	46Eps Ori	1.6940	30000.	95	40796	No
48	GOM_TRA_1PNPDE20091219_024932_000000632085_00161_40796_9270.N1	19-DEC-2009 02:49:32	Twilight_stray	63.000	14	58Alp Ori	0.87000	3000.0	126	40796	No
49	GOM_TRA_1PNPDE20091219_025139_000000532085_00161_40796_9271.N1	19-DEC-2009 02:51:39	Twilight_stray	53.000	13	87Alp Tau	0.86700	3800.0	106	40796	No
50	GOM_TRA_1PNPDE20091219_025339_000000432085_00161_40796_9272.N1	19-DEC-2009 02:53:39	Bright	43.000	176	23Zet Tau	3.0200	22000.	86	40796	No
51	GOM_TRA_1PNPDE20091219_025543_000000402085_00161_40796_9273.N1	19-DEC-2009 02:55:43	Bright	39.500	28	12Bet Tau	1.6500	15200.	79	40796	No
52	GOM_TRA_1PNPDE20091219_025910_000000442085_00161_40796_9274.N1	19-DEC-2009 02:59:10	Bright	44.000	107	37The Aur	2.6490	11000.	88	40796	No
53	GOM_TRA_1PNPDE20091219_030038_000000442085_00161_40796_9275.N1	19-DEC-2009 03:00:38	Bright	44.000	6	13Alp Aur	0.080000	3400.0	88	40796	No
54	GOM_TRA_1PNPDE20091219_031654_000000392085_00161_40796_9283.N1	19-DEC-2009 03:16:54	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	40796	No
55	GOM_TRA_1PNPDE20091219_032123_000000632085_00161_40796_9284.N1	19-DEC-2009 03:21:23	Bright	63.000	32	77Eps UMa	1.7630	11000.	126	40796	No
56	GOM_TRA_1PNPDE20091219_032405_000000592085_00161_40796_9285.N1	19-DEC-2009 03:24:05	Bright	59.000	39	85Eta UMa	1.8540	24000.	118	40796	No
57	GOM_TRA_1PNPDE20091219_032733_000000362085_00161_40796_9286.N1	19-DEC-2009 03:27:33	Bright	36.000	180	27Gam Boo	3.0400	8000.0	72	40796	No
58	GOM_TRA_1PNPDE20091219_033050_000000552085_00161_40796_9287.N1	19-DEC-2009 03:30:50	Bright	55.000	83		2.3780	11000.	110	40796	No
59	GOM_TRA_1PNPDE20091219_033416_000000402085_00161_40796_9288.N1	19-DEC-2009 03:34:16	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	40796	No
60	GOM_TRA_1PNPDE20091219_034432_000000572085_00161_40796_9289.N1	19-DEC-2009 03:44:32	Twilight_stray	57.000	15	67Alp Vir	0.97600	28000.	114	40796	No
61	GOM_TRA_1PNPDE20091219_034803_000000482085_00161_40796_9290.N1	19-DEC-2009 03:48:03	Dark	48.000	169	46Gam Hya	2.9910	4700.0	96	40796	No
62	GOM_TRA_1PNPDE20091219_035048_000000542085_00161_40796_9291.N1	19-DEC-2009 03:50:48	Dark	54.000	106	9Bet Crv	2.6480	5600.0	108	40796	No
63	GOM_TRA_1PNPDE20091219_035517_000000442085_00161_40796_9292.N1	19-DEC-2009 03:55:17	Dark	44.000	64	Gam Cen	2.2000	10600.	88	40796	No
64	GOM_TRA_1PNPDE20091219_035658_000000412085_00162_40797_9293.N1	19-DEC-2009 03:56:58	Dark	40.500	99	Del Cen	2.5750	26000.	81	40797	No
65	GOM_TRA_1PNPDE20091219_040057_000000492085_00162_40797_9294.N1	19-DEC-2009 04:00:57	Dark	48.500	113	Mu Vel	2.6920	5000.0	97	40797	No
66	GOM_TRA_1PNPDE20091219_040431_000000412085_00162_40797_9295.N1	19-DEC-2009 04:04:31	Dark	41.000	71	lot Car	2.2460	7700.0	82	40797	No
67	GOM_TRA_1PNPDE20091219_040915_000000482085_00162_40797_9296.N1	19-DEC-2009 04:09:15	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	40797	No
68	GOM_TRA_1PNPDE20091219_041124_000000492085_00162_40797_9297.N1	19-DEC-2009 04:11:24	Dark	48.500	70	Zet Pup	2.2460	39000.	97	40797	No
69	GOM_TRA_1PNPDE20091219_041359_000000512085_00162_40797_9298.N1	19-DEC-2009 04:13:59	Dark	51.000	117	Pi Pup	2.7060	3800.0	102	40797	No
70	GOM_TRA_1PNPDE20091219_041709_000000522085_00162_40797_9299.N1	19-DEC-2009 04:17:09	Straylight	52.000	23	21Eps CMa	1.5020	26000.	104	40797	No
71	GOM_TRA_1PNPDE20091219_041853_000000522085_00162_40797_9300.N1	19-DEC-2009 04:18:53	Straylight	52.000	179	24Omi2CMa	3.0320	24000.	104	40797	No



72	GOM_TRA_1PNPDE20091219_042147_000000562085_00162_40797_9301.N1	19-DEC-2009 04:21:47	Straylight	56.000	1	9Alp CMa	-1.4400	11000.	112	40797	No
73	GOM_TRA_1PNPDE20091219_042459_000000462085_00162_40797_9302.N1	19-DEC-2009 04:24:59	Straylight	45.500	7	19Bet Ori	0.10000	14000.	91	40797	No
74	GOM_TRA_1PNPDE20091219_042709_000000462085_00162_40797_9303.N1	19-DEC-2009 04:27:09	Straylight	46.000	30	46Eps Ori	1.6940	30000.	92	40797	No
75	GOM_TRA_1PNPDE20091219_043008_000000642085_00162_40797_9304.N1	19-DEC-2009 04:30:08	Tw_i_and_stray	64.000	14	58Alp Ori	0.87000	3000.0	128	40797	No
76	GOM_TRA_1PNPDE20091219_043215_000000482085_00162_40797_9305.N1	19-DEC-2009 04:32:15	Tw_i_and_stray	48.000	13	87Alp Tau	0.86700	3800.0	96	40797	No
77	GOM_TRA_1PNPDE20091219_043415_000000432085_00162_40797_9306.N1	19-DEC-2009 04:34:15	Bright	43.000	176	23Zet Tau	3.0200	22000.	86	40797	No
78	GOM_TRA_1PNPDE20091219_043619_000000422085_00162_40797_9307.N1	19-DEC-2009 04:36:19	Bright	42.000	28	12Bet Tau	1.6500	15200.	84	40797	No
79	GOM_TRA_1PNPDE20091219_043946_000000422085_00162_40797_9308.N1	19-DEC-2009 04:39:46	Bright	42.000	107	37The Aur	2.6490	11000.	84	40797	No
80	GOM_TRA_1PNPDE20091219_044114_000000452085_00162_40797_9309.N1	19-DEC-2009 04:41:14	Bright	45.000	6	13Alp Aur	0.080000	3400.0	90	40797	No
81	GOM_TRA_1PNPDE20091219_045730_000000382085_00162_40797_9312.N1	19-DEC-2009 04:57:30	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	40797	No
82	GOM_TRA_1PNPDE20091219_050159_000000632085_00162_40797_9313.N1	19-DEC-2009 05:01:59	Bright	63.000	32	77Eps UMa	1.7630	11000.	126	40797	No
83	GOM_TRA_1PNPDE20091219_050441_000000432085_00162_40797_9314.N1	19-DEC-2009 05:04:41	Bright	43.000	39	85Eta UMa	1.8540	24000.	86	40797	No
84	GOM_TRA_1PNPDE20091219_050809_000000452085_00162_40797_9315.N1	19-DEC-2009 05:08:09	Bright	45.000	180	27Gam Boo	3.0400	8000.0	90	40797	No
85	GOM_TRA_1PNPDE20091219_051126_000000372085_00162_40797_9316.N1	19-DEC-2009 05:11:26	Bright	36.500	83		2.3780	11000.	73	40797	No
86	GOM_TRA_1PNPDE20091219_051452_000000442085_00162_40797_9317.N1	19-DEC-2009 05:14:52	Bright	43.500	111	8Eta Boo	2.6800	6000.0	87	40797	No
87	GOM_TRA_1PNPDE20091219_052509_000000552085_00162_40797_9318.N1	19-DEC-2009 05:25:09	Tw_i_and_stray	54.500	15	67Alp Vir	0.97600	28000.	109	40797	No
88	GOM_TRA_1PNPDE20091219_052840_000000492085_00162_40797_9319.N1	19-DEC-2009 05:28:40	Dark	48.500	169	46Gam Hya	2.9910	4700.0	97	40797	No
89	GOM_TRA_1PNPDE20091219_053126_000000522085_00162_40797_9320.N1	19-DEC-2009 05:31:26	Dark	52.000	106	9Bet Crv	2.6480	5600.0	104	40797	No
90	GOM_TRA_1PNPDE20091219_053553_000000432085_00162_40797_9321.N1	19-DEC-2009 05:35:53	Dark	43.000	64	Gam Cen	2.2000	10600.	86	40797	No
91	GOM_TRA_1PNPDE20091219_053734_000000432085_00163_40798_9322.N1	19-DEC-2009 05:37:34	Dark	42.500	99	Del Cen	2.5750	26000.	85	40798	No
92	GOM_TRA_1PNPDE20091219_054134_000000552085_00163_40798_9323.N1	19-DEC-2009 05:41:34	Dark	54.500	113	Mu Vel	2.6920	5000.0	109	40798	No
93	GOM_TRA_1PNPDE20091219_054508_000000412085_00163_40798_9324.N1	19-DEC-2009 05:45:08	Dark	40.500	71	lot Car	2.2460	7700.0	81	40798	No
94	GOM_TRA_1PNPDE20091219_054951_000000492085_00163_40798_9325.N1	19-DEC-2009 05:49:51	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	40798	No
95	GOM_TRA_1PNPDE20091219_055201_000000492085_00163_40798_9326.N1	19-DEC-2009 05:52:01	Dark	48.500	70	Zet Pup	2.2460	39000.	97	40798	No
96	GOM_TRA_1PNPDE20091219_055436_000000522085_00163_40798_9327.N1	19-DEC-2009 05:54:36	Dark	51.500	117	Pi Pup	2.7060	3800.0	103	40798	No
97	GOM_TRA_1PNPDE20091219_055745_000000512085_00163_40798_9328.N1	19-DEC-2009 05:57:45	Straylight	50.500	23	21Eps CMa	1.5020	26000.	101	40798	No
98	GOM_TRA_1PNPDE20091219_055929_000000522085_00163_40798_9329.N1	19-DEC-2009 05:59:29	Straylight	51.500	179	24Omi2CMa	3.0320	24000.	103	40798	No
99	GOM_TRA_1PNPDE20091219_060223_000000572085_00163_40798_9330.N1	19-DEC-2009 06:02:23	Straylight	57.000	1	9Alp CMa	-1.4400	11000.	114	40798	No
100	GOM_TRA_1PNPDE20091219_060535_000000472085_00163_40798_9331.N1	19-DEC-2009 06:05:35	Straylight	46.500	7	19Bet Ori	0.10000	14000.	93	40798	No
101	GOM_TRA_1PNPDE20091219_060744_000000472085_00163_40798_9332.N1	19-DEC-2009 06:07:44	Straylight	46.500	30	46Eps Ori	1.6940	30000.	93	40798	No
102	GOM_TRA_1PNPDE20091219_061044_000000612085_00163_40798_9333.N1	19-DEC-2009 06:10:44	Tw_i_and_stray	61.000	14	58Alp Ori	0.87000	3000.0	122	40798	No
103	GOM_TRA_1PNPDE20091219_061251_000000432085_00163_40798_9334.N1	19-DEC-2009 06:12:51	Tw_i_and_stray	42.500	13	87Alp Tau	0.86700	3800.0	85	40798	No
104	GOM_TRA_1PNPDE20091219_061451_000000442085_00163_40798_9335.N1	19-DEC-2009 06:14:51	Bright	44.000	176	23Zet Tau	3.0200	22000.	88	40798	No
105	GOM_TRA_1PNPDE20091219_061655_000000422085_00163_40798_9336.N1	19-DEC-2009 06:16:55	Bright	42.000	28	12Bet Tau	1.6500	15200.	84	40798	No
106	GOM_TRA_1PNPDE20091219_062021_000000442085_00163_40798_9337.N1	19-DEC-2009 06:20:21	Bright	43.500	107	37The Aur	2.6490	11000.	87	40798	No
107	GOM_TRA_1PNPDE20091219_062149_000000482085_00163_40798_9338.N1	19-DEC-2009 06:21:49	Bright	47.500	6	13Alp Aur	0.080000	3400.0	95	40798	No
108	GOM_TRA_1PNPDE20091219_205730_000000522085_00172_40807_9381.N1	19-DEC-2009 20:57:30	Dark	51.500	70	Zet Pup	2.2460	39000.	103	40807	No
109	GOM_TRA_1PNPDE20091219_210004_000000522085_00172_40807_9382.N1	19-DEC-2009 21:00:04	Dark	52.000	117	Pi Pup	2.7060	3800.0	104	40807	No
110	GOM_TRA_1PNPDE20091219_210312_000000512085_00172_40807_9383.N1	19-DEC-2009 21:03:12	Straylight	50.500	23	21Eps CMa	1.5020	26000.	101	40807	No
111	GOM_TRA_1PNPDE20091219_210455_000000512085_00172_40807_9384.N1	19-DEC-2009 21:04:55	Straylight	50.500	179	24Omi2CMa	3.0320	24000.	101	40807	No
112	GOM_TRA_1PNPDE20091219_210747_000000572085_00172_40807_9385.N1	19-DEC-2009 21:07:47	Straylight	57.000	1	9Alp CMa	-1.4400	11000.	114	40807	No
113	GOM_TRA_1PNPDE20091219_211059_000000462085_00172_40807_9386.N1	19-DEC-2009 21:10:59	Straylight	45.500	7	19Bet Ori	0.10000	14000.	91	40807	No
114	GOM_TRA_1PNPDE20091219_211307_000000472085_00172_40807_9387.N1	19-DEC-2009 21:13:07	Straylight	47.000	30	46Eps Ori	1.6940	30000.	94	40807	No
115	GOM_TRA_1PNPDE20091219_211605_000000592085_00172_40807_9388.N1	19-DEC-2009 21:16:05	Tw_i_and_stray	59.000	14	58Alp Ori	0.87000	3000.0	118	40807	No
116	GOM_TRA_1PNPDE20091219_211814_000000472085_00172_40807_9389.N1	19-DEC-2009 21:18:14	Tw_i_and_stray	47.000	13	87Alp Tau	0.86700	3800.0	94	40807	No
117	GOM_TRA_1PNPDE20091219_212012_000000442085_00172_40807_9390.N1	19-DEC-2009 21:20:12	Bright	44.000	176	23Zet Tau	3.0200	22000.	88	40807	No
118	GOM_TRA_1PNPDE20091219_212215_000000432085_00172_40807_9391.N1	19-DEC-2009 21:22:15	Bright	43.000	28	12Bet Tau	1.6500	15200.	86	40807	No
119	GOM_TRA_1PNPDE20091219_212540_000000632085_00172_40807_9392.N1	19-DEC-2009 21:25:40	Bright	63.000	107	37The Aur	2.6490	11000.	126	40807	No
120	GOM_TRA_1PNPDE20091219_212710_000000412085_00172_40807_9393.N1	19-DEC-2009 21:27:10	Bright	40.500	6	13Alp Aur	0.080000	3400.0	81	40807	No
121	GOM_TRA_1PNPDE20091219_214329_000000402085_00172_40807_9394.N1	19-DEC-2009 21:43:29	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	40807	No
122	GOM_TRA_1PNPDE20091219_214756_000000422085_00172_40807_9395.N1	19-DEC-2009 21:47:56	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	40807	No
123	GOM_TRA_1PNPDE20091219_215040_000000592085_00172_40807_9396.N1	19-DEC-2009 21:50:40	Bright	59.000	39	85Eta UMa	1.8540	24000.	118	40807	No
124	GOM_TRA_1PNPDE20091219_215409_000000532085_00172_40807_9397.N1	19-DEC-2009 21:54:09	Bright	53.000	180	27Gam Boo	3.0400	8000.0	106	40807	No
125	GOM_TRA_1PNPDE20091219_215727_000000482085_00172_40807_9398.N1	19-DEC-2009 21:57:27	Bright	48.000	83		2.3780	11000.	96	40807	No
126	GOM_TRA_1PNPDE20091219_220055_000000432085_00172_40807_9399.N1	19-DEC-2009 22:00:55	Bright	43.000	111	8Eta Boo	2.6800	6000.0	86	40807	No
127	GOM_TRA_1PNPDE20091219_221117_000000552085_00172_40807_9399.N1	19-DEC-2009 22:11:17	Tw_i_and_stray	55.000	15	67Alp Vir	0.97600	28000.	110	40807	No
128	GOM_TRA_1PNPDE20091219_221448_000000492085_00172_40807_9400.N1	19-DEC-2009 22:14:48	Dark	49.000	169	46Gam Hya	2.9910	4700.0	98	40807	No
129	GOM_TRA_1PNPDE20091219_221737_000000542085_00172_40807_9401.N1	19-DEC-2009 22:17:37	Dark	54.000	106	9Bet Crv	2.6480	5600.0	108	40807	No
130	GOM_TRA_1PNPDE20091219_222159_000000482085_00172_40807_9402.N1	19-DEC-2009 22:21:59	Dark	48.000	64	Gam Cen	2.2000	10600.	96	40807	No

131	GOM_TRA_1PNPDE20091219_222341_000000422085_00173_40808_9403.N1	19-DEC-2009 22:23:41	Dark	42.000	99	Del Cen	2.5750	26000.	84	40808	No
132	GOM_TRA_1PNPDE20091219_222742_000000482085_00173_40808_9404.N1	19-DEC-2009 22:27:42	Dark	48.000	113	Mu Vel	2.6920	5000.0	96	40808	No
133	GOM_TRA_1PNPDE20091219_223113_000000412085_00173_40808_9405.N1	19-DEC-2009 22:31:13	Dark	40.500	71	lot Car	2.2460	7700.0	81	40808	No
134	GOM_TRA_1PNPDE20091219_223557_000000492085_00173_40808_9406.N1	19-DEC-2009 22:35:57	Dark	49.000	34	Gam2Vel	1.7930	23000.	98	40808	No
135	GOM_TRA_1PNPDE20091219_223807_000000502085_00173_40808_9407.N1	19-DEC-2009 22:38:07	Dark	50.000	70	Zet Pup	2.2460	39000.	100	40808	No
136	GOM_TRA_1PNPDE20091219_224040_000000512085_00173_40808_9408.N1	19-DEC-2009 22:40:40	Dark	50.500	117	Pi Pup	2.7060	3800.0	101	40808	No
137	GOM_TRA_1PNPDE20091219_224348_000000532085_00173_40808_9409.N1	19-DEC-2009 22:43:48	Straylight	52.500	23	21Eps CMa	1.5020	26000.	105	40808	No
138	GOM_TRA_1PNPDE20091219_224531_000000492085_00173_40808_9410.N1	19-DEC-2009 22:45:31	Straylight	49.000	179	24Omi2CMa	3.0320	24000.	98	40808	No
139	GOM_TRA_1PNPDE20091219_224823_000000582085_00173_40808_9411.N1	19-DEC-2009 22:48:23	Straylight	58.000	1	9Alp CMa	-1.4400	11000.	116	40808	No
140	GOM_TRA_1PNPDE20091219_225135_000000472085_00173_40808_9412.N1	19-DEC-2009 22:51:35	Straylight	47.000	7	19Bet Ori	0.10000	14000.	94	40808	No
141	GOM_TRA_1PNPDE20091219_225343_000000472085_00173_40808_9413.N1	19-DEC-2009 22:53:43	Straylight	47.000	30	46Eps Ori	1.6940	30000.	94	40808	No
142	GOM_TRA_1PNPDE20091219_225640_000000632085_00173_40808_9414.N1	19-DEC-2009 22:56:40	Twilight_stray	63.000	14	58Alp Ori	0.87000	3000.0	126	40808	No
143	GOM_TRA_1PNPDE20091219_225850_000000472085_00173_40808_9415.N1	19-DEC-2009 22:58:50	Twilight_stray	47.000	13	87Alp Tau	0.86700	3800.0	94	40808	No
144	GOM_TRA_1PNPDE20091219_230047_000000432085_00173_40808_9416.N1	19-DEC-2009 23:00:47	Bright	43.000	176	23Zet Tau	3.0200	22000.	86	40808	No
145	GOM_TRA_1PNPDE20091219_230251_000000422085_00173_40808_9417.N1	19-DEC-2009 23:02:51	Bright	41.500	28	12Bet Tau	1.6500	15200.	83	40808	No
146	GOM_TRA_1PNPDE20091219_230615_000000632085_00173_40808_9418.N1	19-DEC-2009 23:06:15	Bright	63.000	107	37The Aur	2.6490	11000.	126	40808	No
147	GOM_TRA_1PNPDE20091219_230746_000000492085_00173_40808_9419.N1	19-DEC-2009 23:07:46	Bright	48.500	6	13Alp Aur	0.080000	3400.0	97	40808	No
148	GOM_TRA_1PNPDE20091219_232405_000000402085_00173_40808_9420.N1	19-DEC-2009 23:24:05	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	40808	No
149	GOM_TRA_1PNPDE20091219_232831_000000442085_00173_40808_9421.N1	19-DEC-2009 23:28:31	Bright	44.000	32	77Eps UMa	1.7630	11000.	88	40808	No
150	GOM_TRA_1PNPDE20091219_233115_000000592085_00173_40808_9422.N1	19-DEC-2009 23:31:15	Bright	59.000	39	85Eta UMa	1.8540	24000.	118	40808	No
151	GOM_TRA_1PNPDE20091219_233445_000000512085_00173_40808_9423.N1	19-DEC-2009 23:34:45	Bright	50.500	180	27Gam Boo	3.0400	8000.0	101	40808	No
152	GOM_TRA_1PNPDE20091219_233803_000000552085_00173_40808_9424.N1	19-DEC-2009 23:38:03	Bright	55.000	83		2.3780	11000.	110	40808	No
153	GOM_TRA_1PNPDE20091219_234131_000000632085_00173_40808_9425.N1	19-DEC-2009 23:41:31	Bright	63.000	111	8Eta Boo	2.6800	6000.0	126	40808	No
154	GOM_TRA_1PNPDE20091219_235153_000000542085_00173_40808_9419.N1	19-DEC-2009 23:51:53	Twilight_stray	53.500	15	67Alp Vir	0.97600	28000.	107	40808	No
155	GOM_TRA_1PNPDE20091219_235524_000000462085_00173_40808_9420.N1	19-DEC-2009 23:55:24	Dark	46.000	169	46Gam Hya	2.9910	4700.0	92	40808	No
156	GOM_TRA_1PNPDE20091219_235814_000000522085_00173_40808_9421.N1	19-DEC-2009 23:58:14	Dark	51.500	106	9Bet Crv	2.6480	5600.0	103	40808	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.

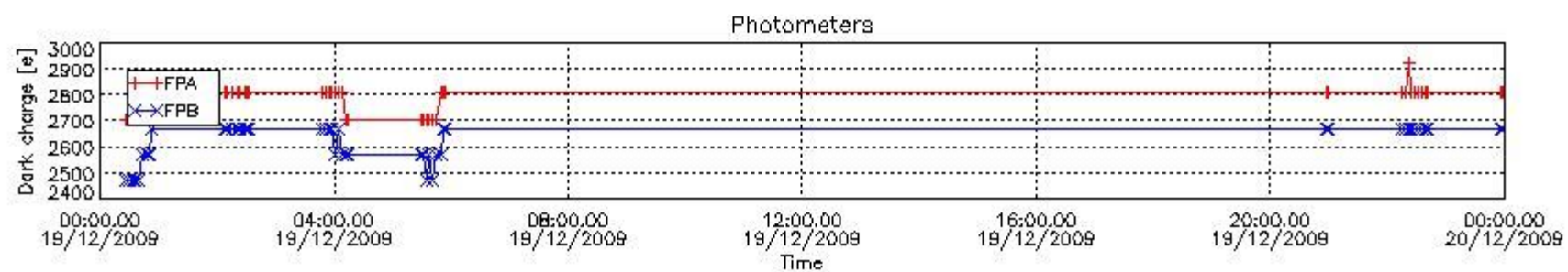
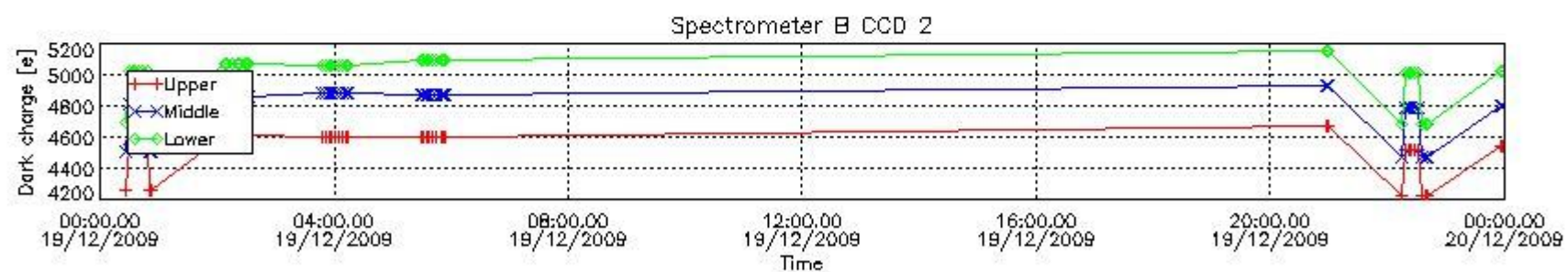
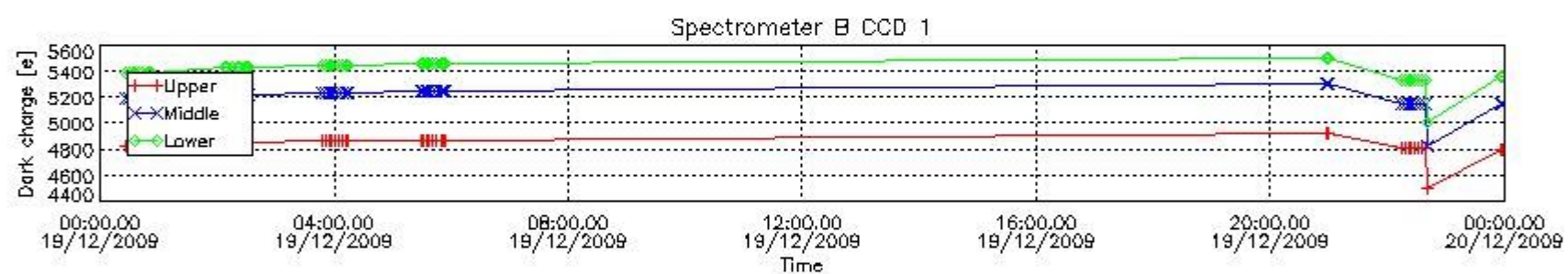
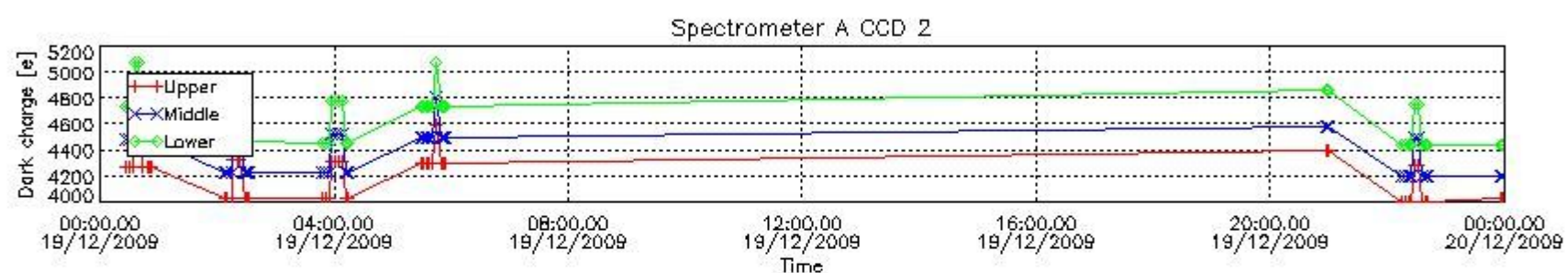
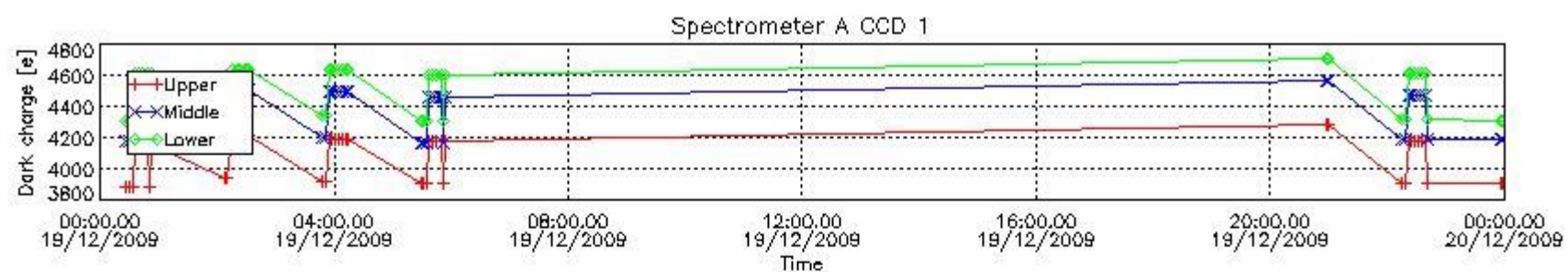
##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20091219_205730_000000522085_00172_40807_9381.N1	DC map used
GOM_TRA_1PNPDE20091219_210004_000000522085_00172_40807_9382.N1	DC map used
GOM_TRA_1PNPDE20091219_210312_000000512085_00172_40807_9383.N1	DC map used
GOM_TRA_1PNPDE20091219_210455_000000512085_00172_40807_9384.N1	DC map used
GOM_TRA_1PNPDE20091219_210747_000000572085_00172_40807_9385.N1	DC map used
GOM_TRA_1PNPDE20091219_211059_000000462085_00172_40807_9386.N1	DC map used
GOM_TRA_1PNPDE20091219_211307_000000472085_00172_40807_9387.N1	DC map used
GOM_TRA_1PNPDE20091219_211605_000000592085_00172_40807_9388.N1	DC map used
GOM_TRA_1PNPDE20091219_211814_000000472085_00172_40807_9389.N1	DC map used
GOM_TRA_1PNPDE20091219_212012_000000442085_00172_40807_9390.N1	DC map used
GOM_TRA_1PNPDE20091219_212215_000000432085_00172_40807_9391.N1	DC map used
GOM_TRA_1PNPDE20091219_212540_000000632085_00172_40807_9392.N1	DC map used
GOM_TRA_1PNPDE20091219_212710_000000412085_00172_40807_9393.N1	DC map used
GOM_TRA_1PNPDE20091219_214329_000000402085_00172_40807_9394.N1	DC map used



GOM_TRA_1PNPDE20091219_214756_000000422085_00172_40807_9395.N1	DC map used
GOM_TRA_1PNPDE20091219_215040_000000592085_00172_40807_9396.N1	DC map used
GOM_TRA_1PNPDE20091219_215409_000000532085_00172_40807_9397.N1	DC map used
GOM_TRA_1PNPDE20091219_215727_000000482085_00172_40807_9398.N1	DC map used
GOM_TRA_1PNPDE20091219_220055_000000432085_00172_40807_9399.N1	DC map used

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

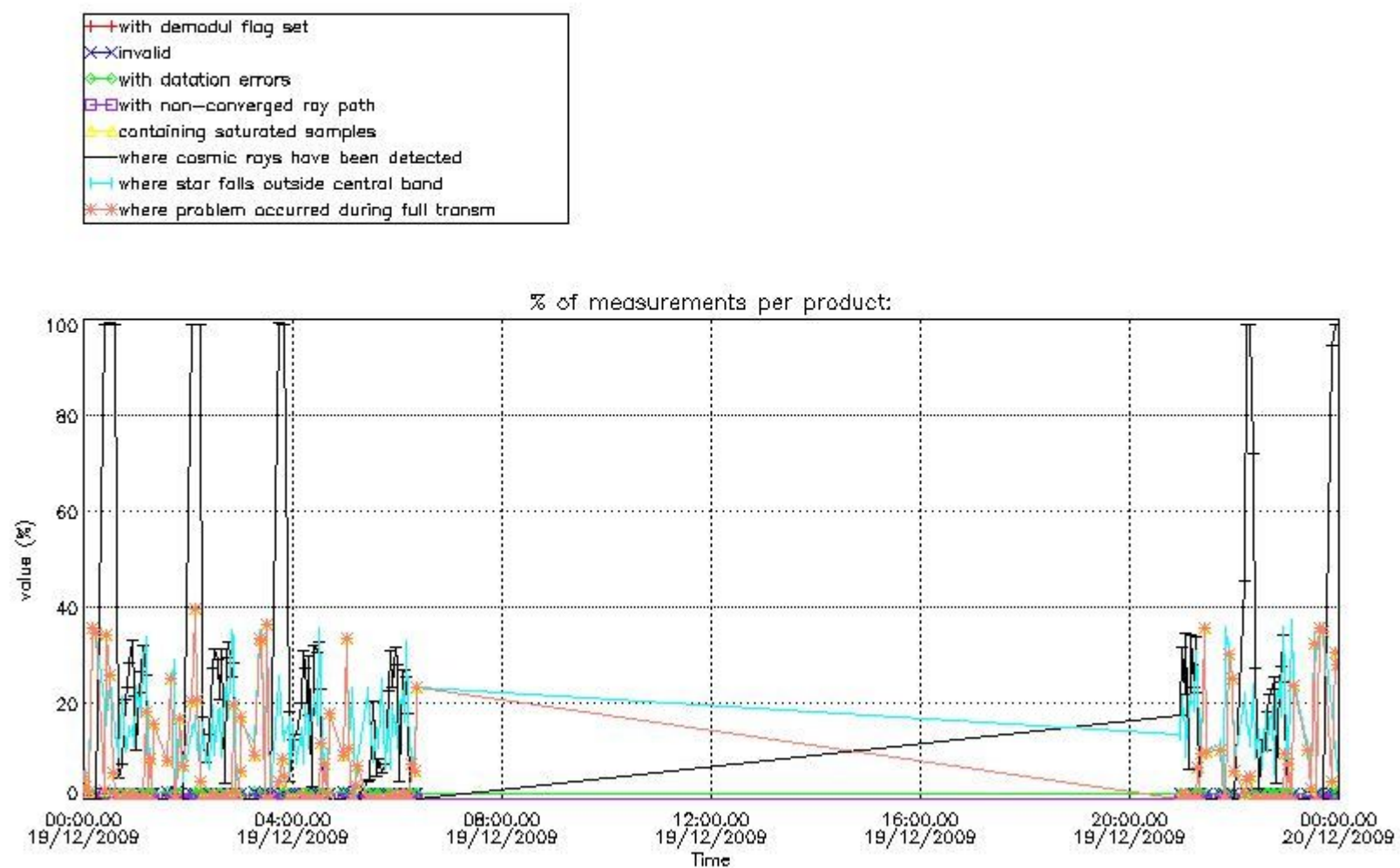


In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

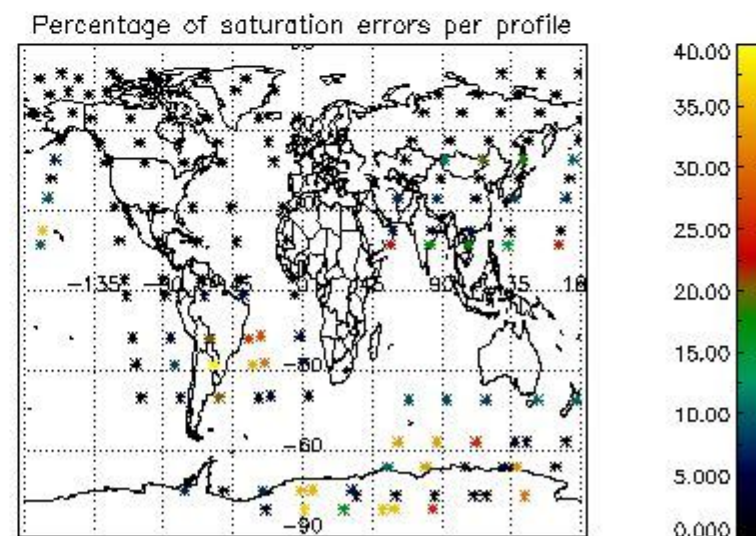
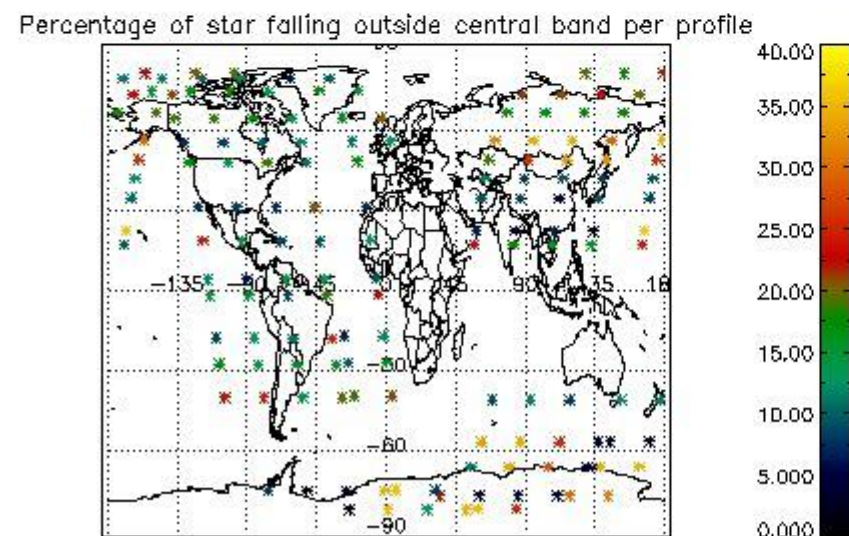
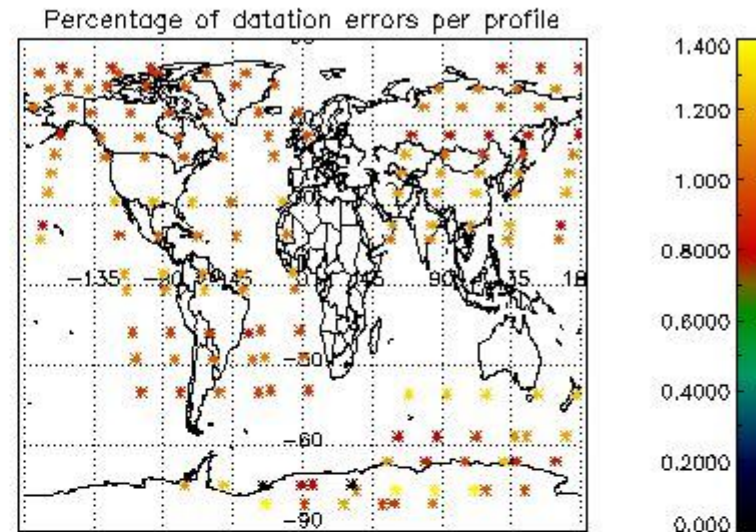
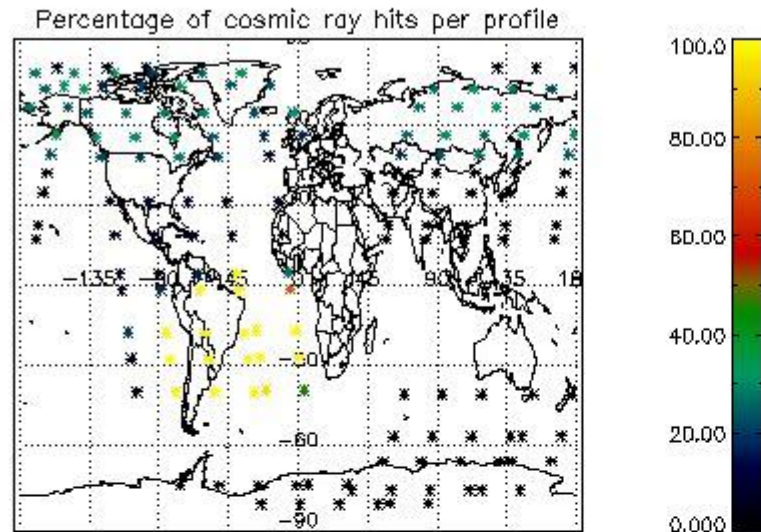
At least one measurement with demodulation flag set:	51.9231 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





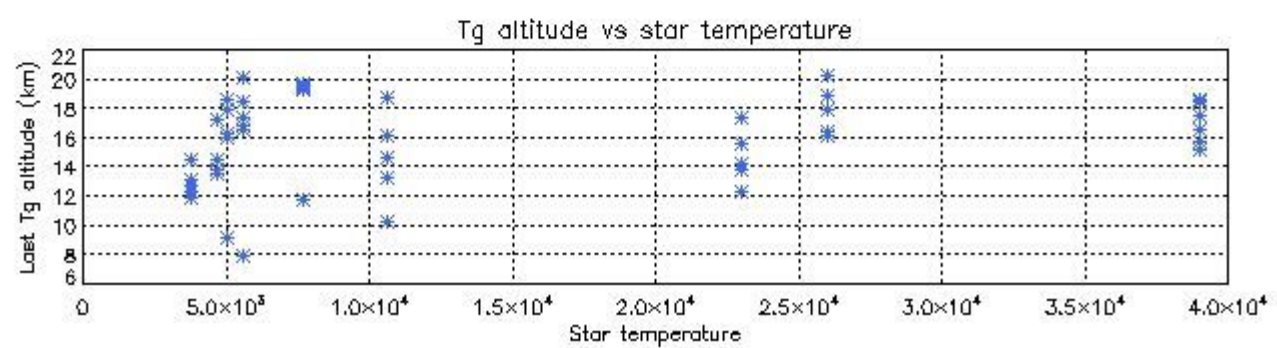
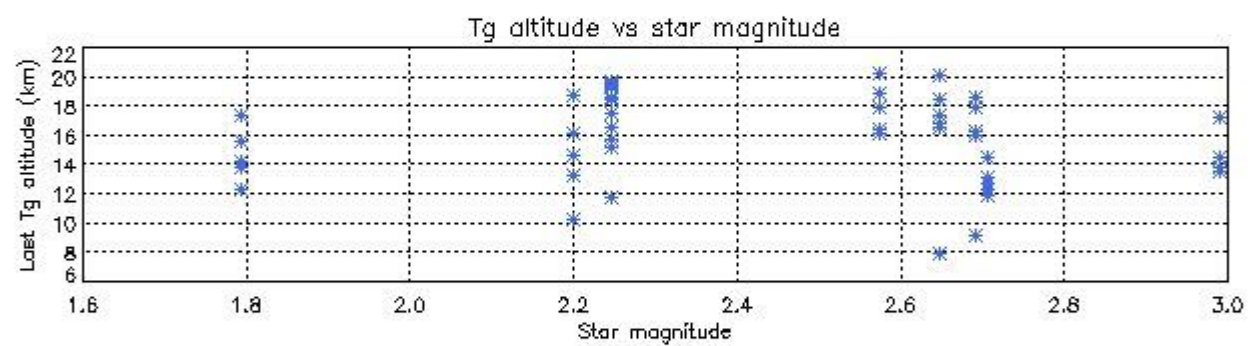
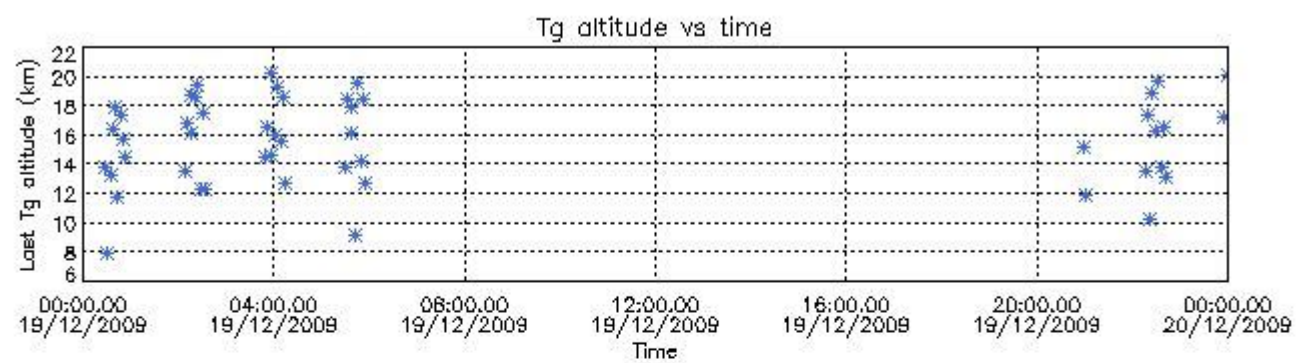
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.625	14.903	NaN
St. deviation:	2.9372	7.0647	NaN
Maximum:	20.166	25.864	NaN
Minimum:	7.9218	3.6987	NaN
Number of data:	49.000	59.000	NaN

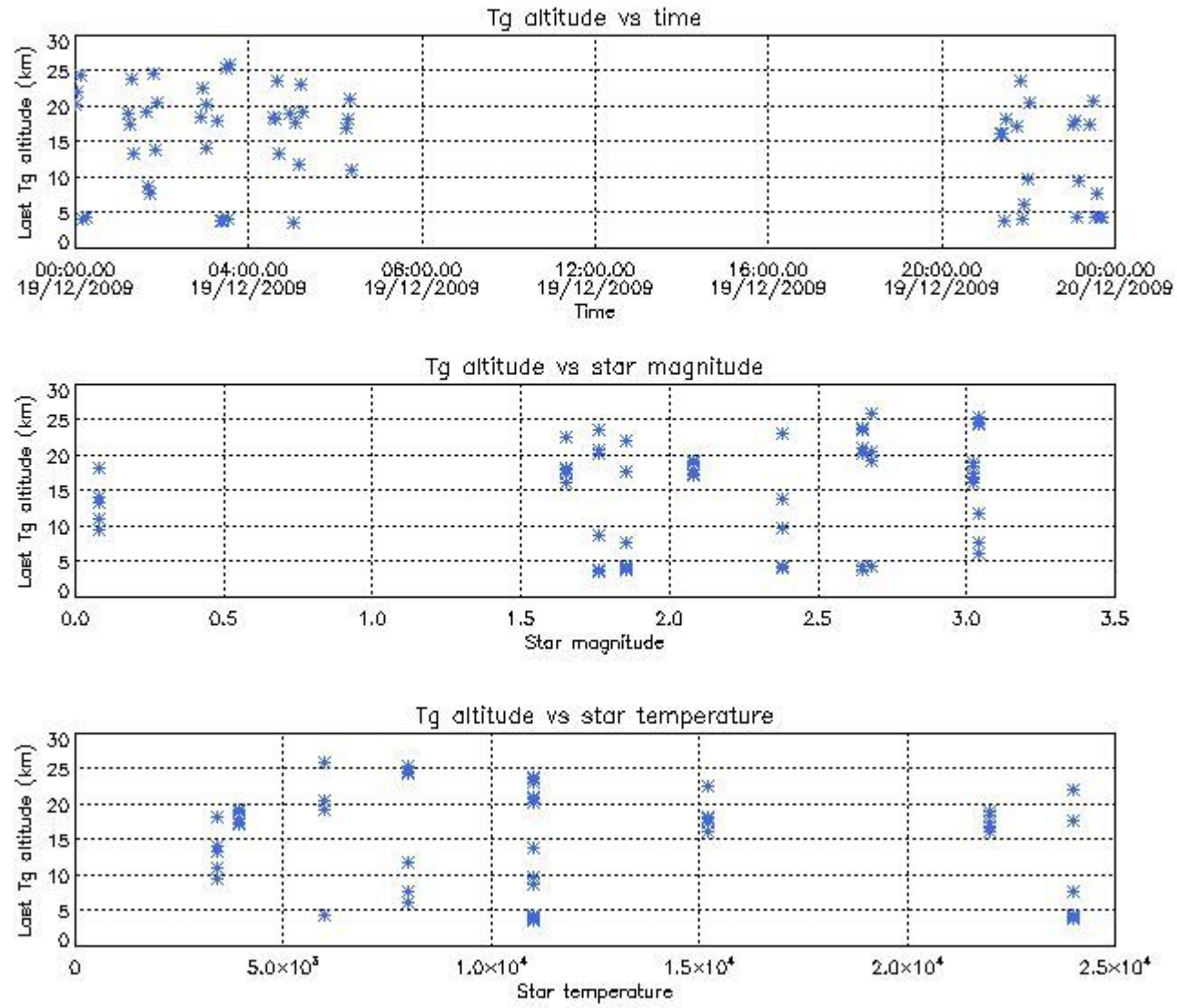
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost



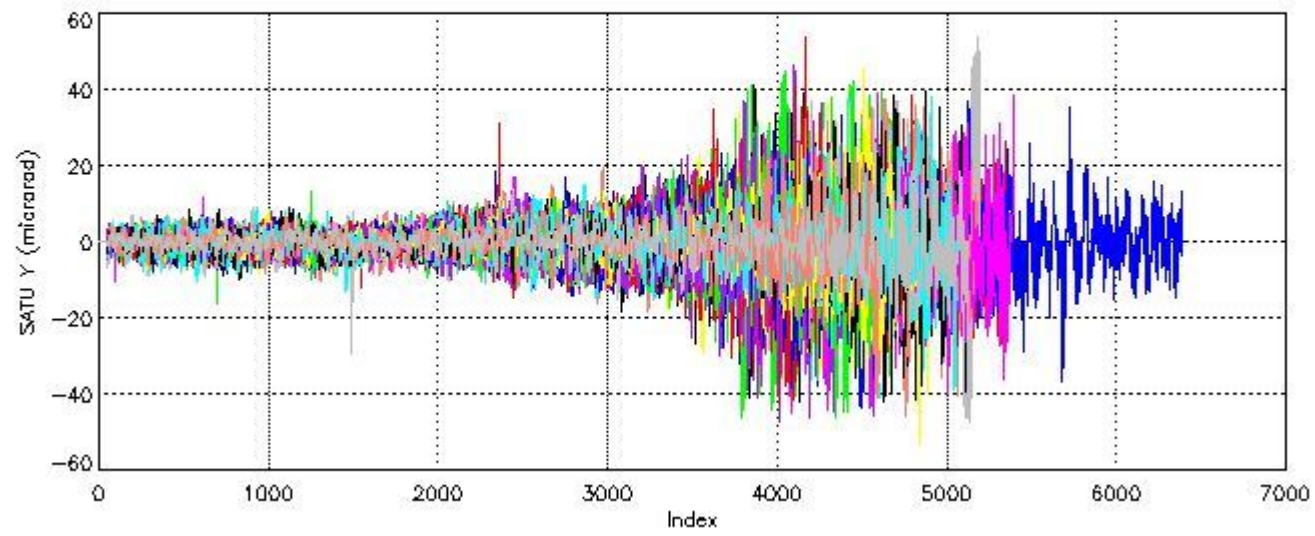
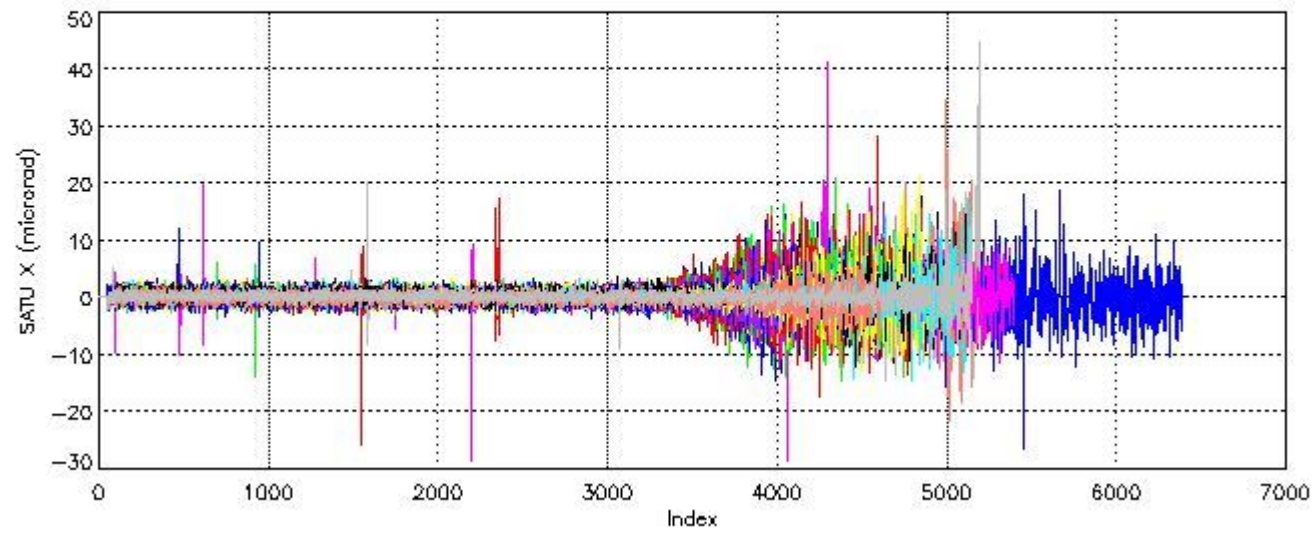
## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.23334	-0.23432	0.19430	-0.29899
St. deviation:	0.65702	2.0557	0.81516	2.4937
Maximum:	19.900	11.700	6.1000	17.300
Minimum:	-13.700	-16.100	-6.3000	-16.100

Number of data:	51100.	51100.	56550.	56550.
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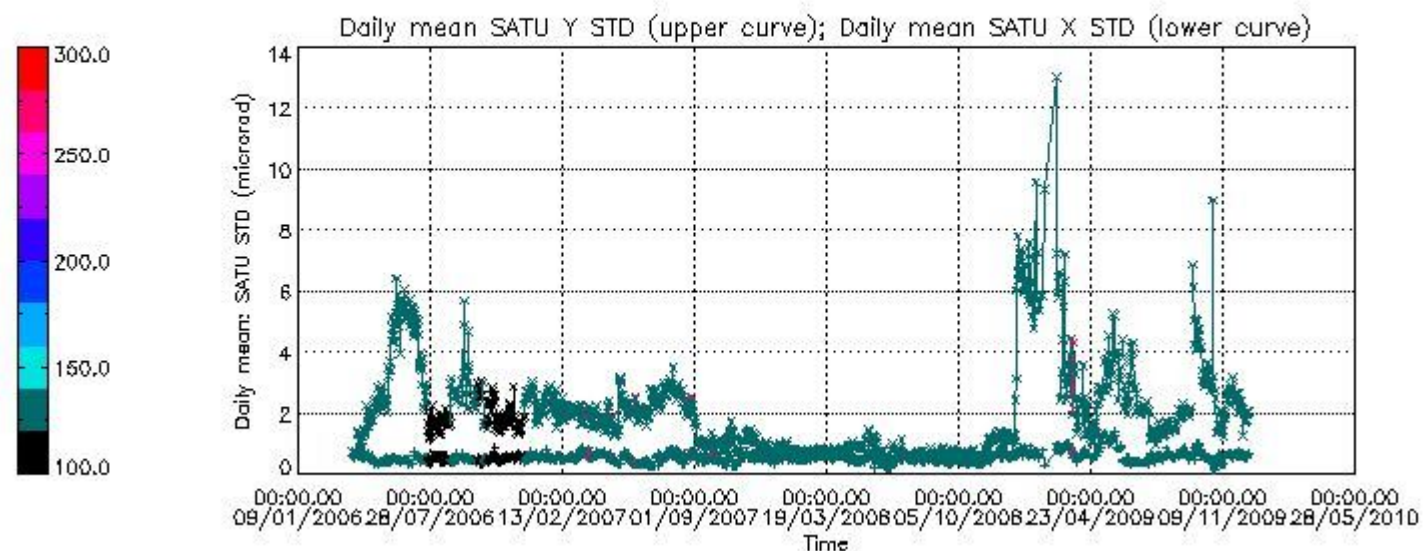
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

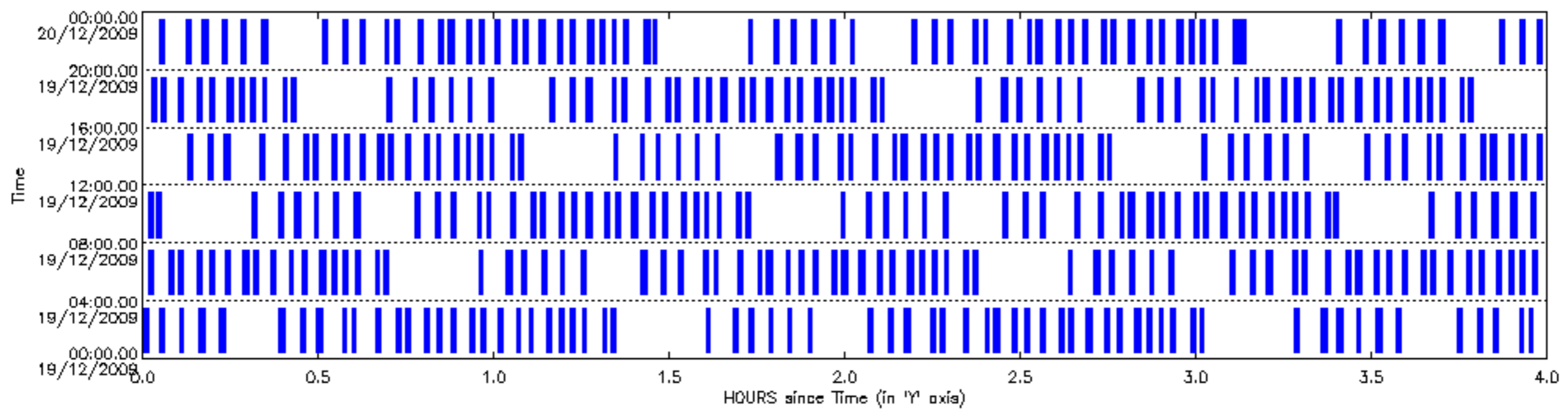
Lower curve: STD of SATU X axis



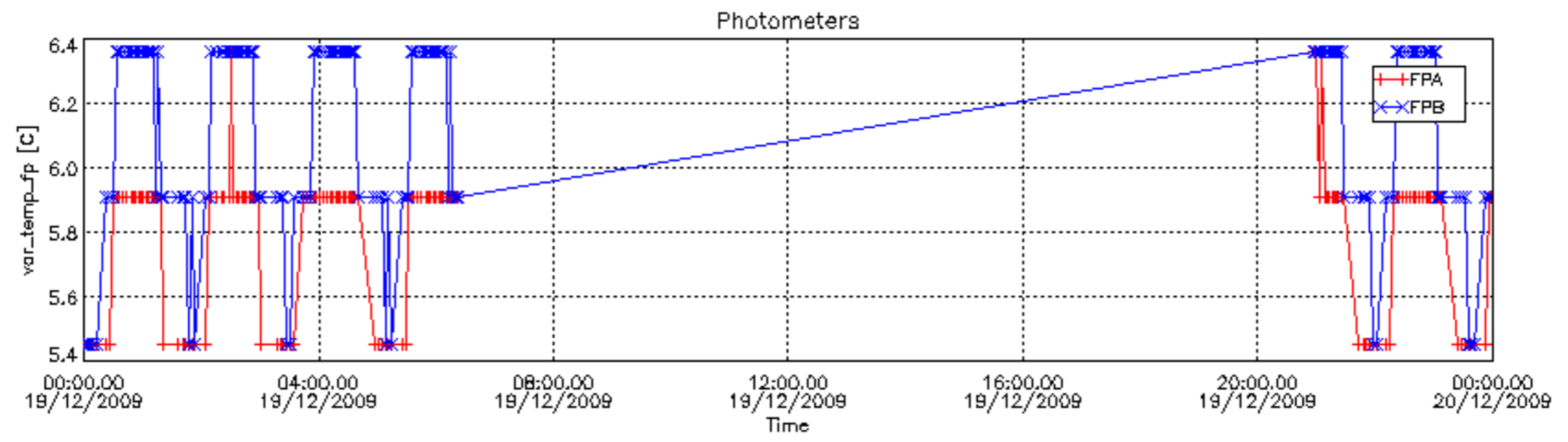
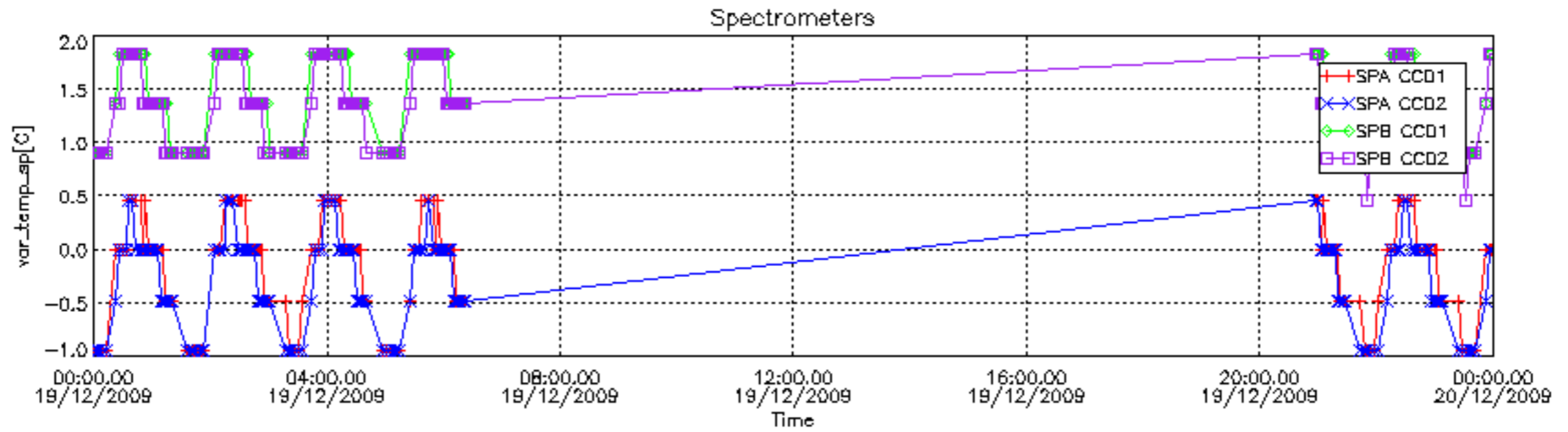
### 8. Auxiliary Data Files used for the production reported in section 2.4

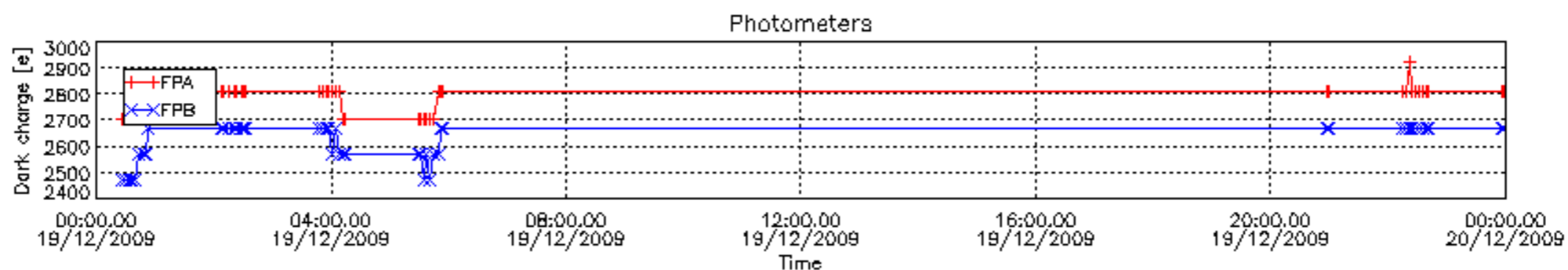
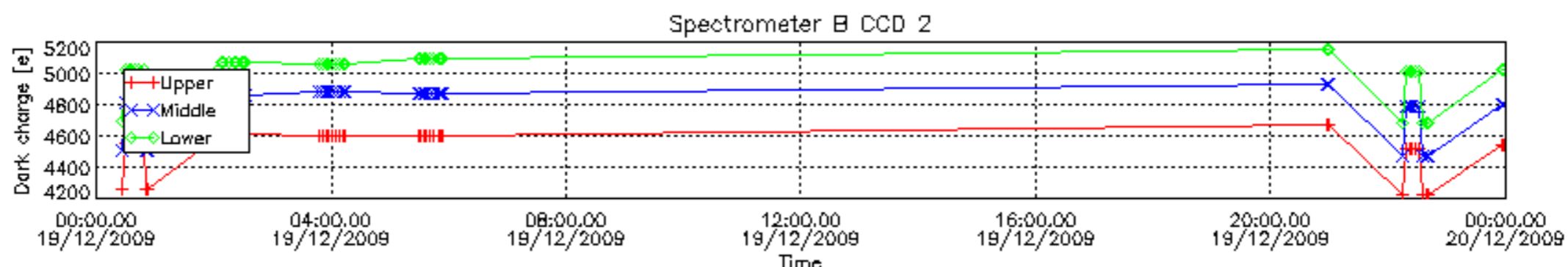
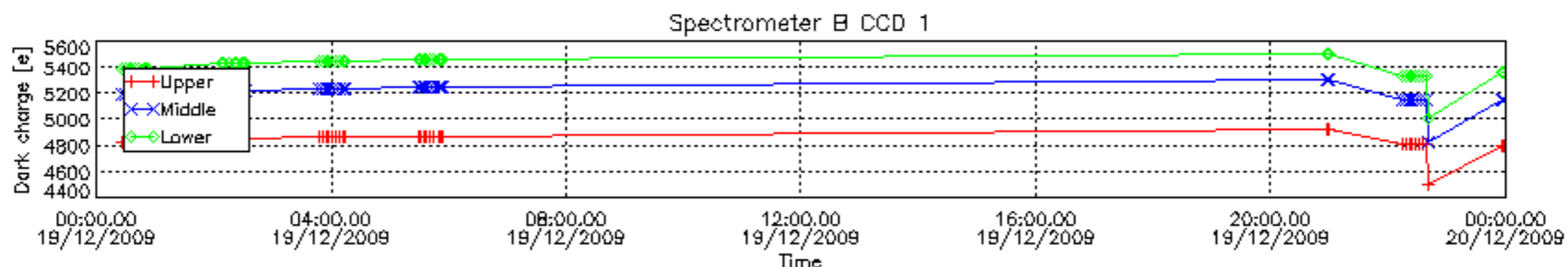
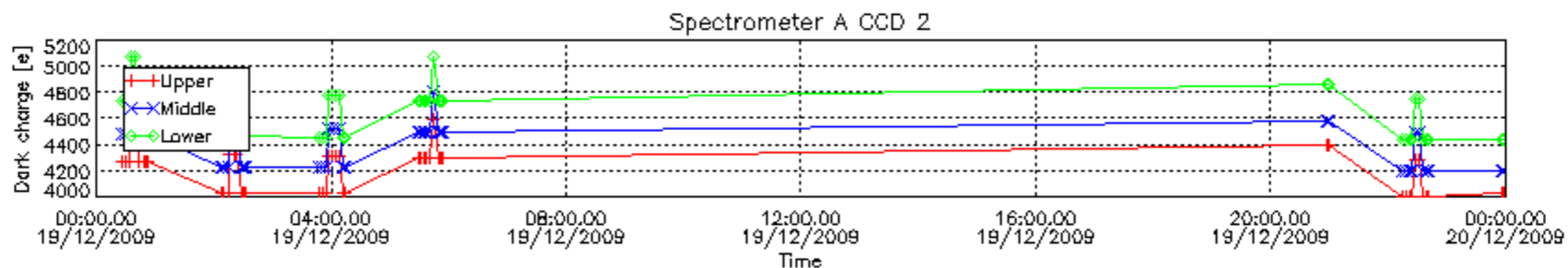
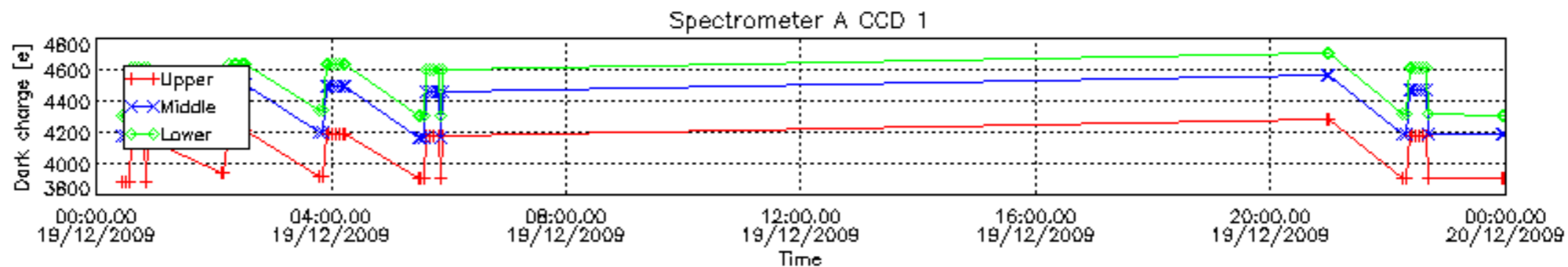
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

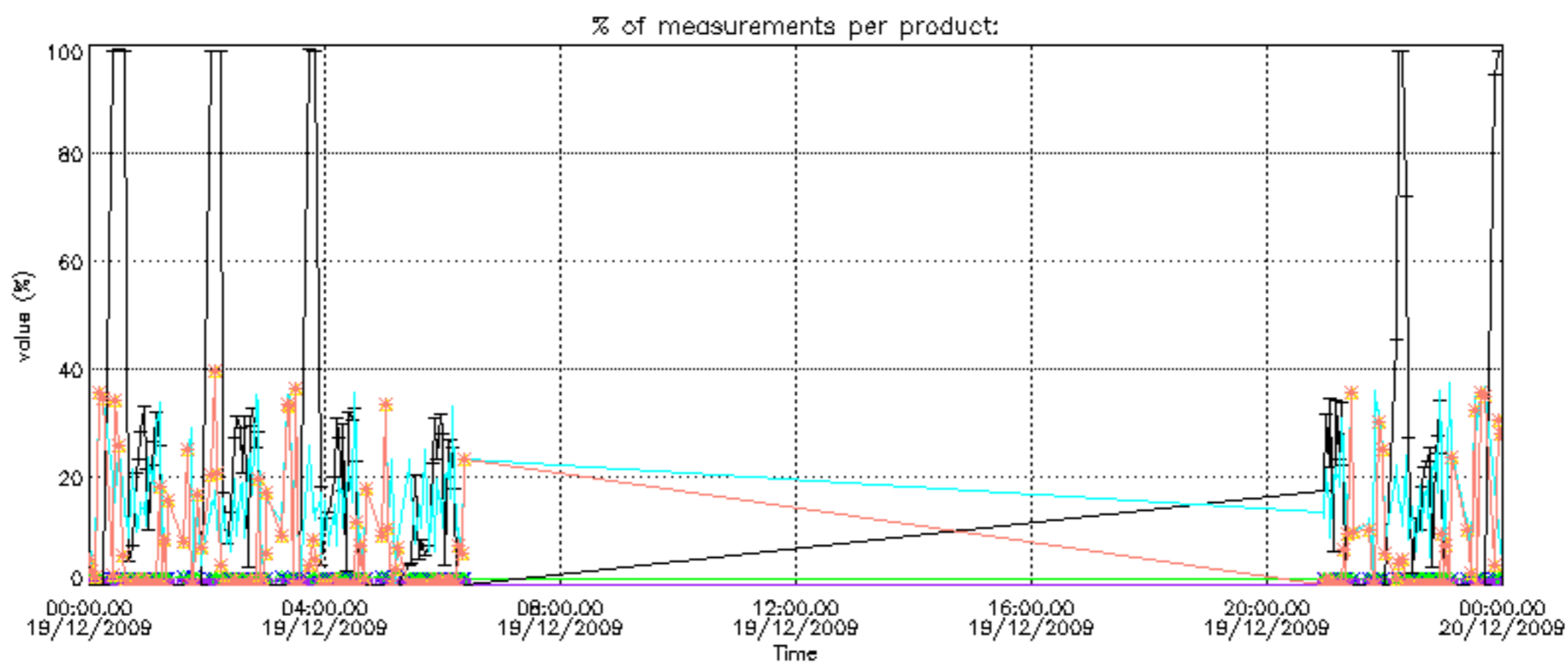
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091214_085046_20091212_000000_20500101_000000	1	19-DEC-2009 00:00:12
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	19-DEC-2009 00:00:12
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-DEC-2009 00:00:12
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	19-DEC-2009 00:00:12
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ECMWF_FILE	AUX_ECF_AXNECM20091218_182111_20091219_030000_20091219_150000	54	19-DEC-2009 03:16:54
ECMWF_FILE	AUX_ECA_AXNECM20091219_062112_20091218_210000_20091219_090000	81	19-DEC-2009 04:57:30
ECMWF_FILE	AUX_ECF_AXNECM20091219_062113_20091219_150000_20091220_030000	108	19-DEC-2009 20:57:30
ECMWF_FILE	AUX_ECF_AXNECM20091219_062113_20091219_210000_20091220_090000	127	19-DEC-2009 22:11:17
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ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091219_010111_20091218_193247_20091228_205902	81	19-DEC-2009 04:57:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091219_205209_000041442085_00172_40807_9391.N1	108	19-DEC-2009 20:57:30
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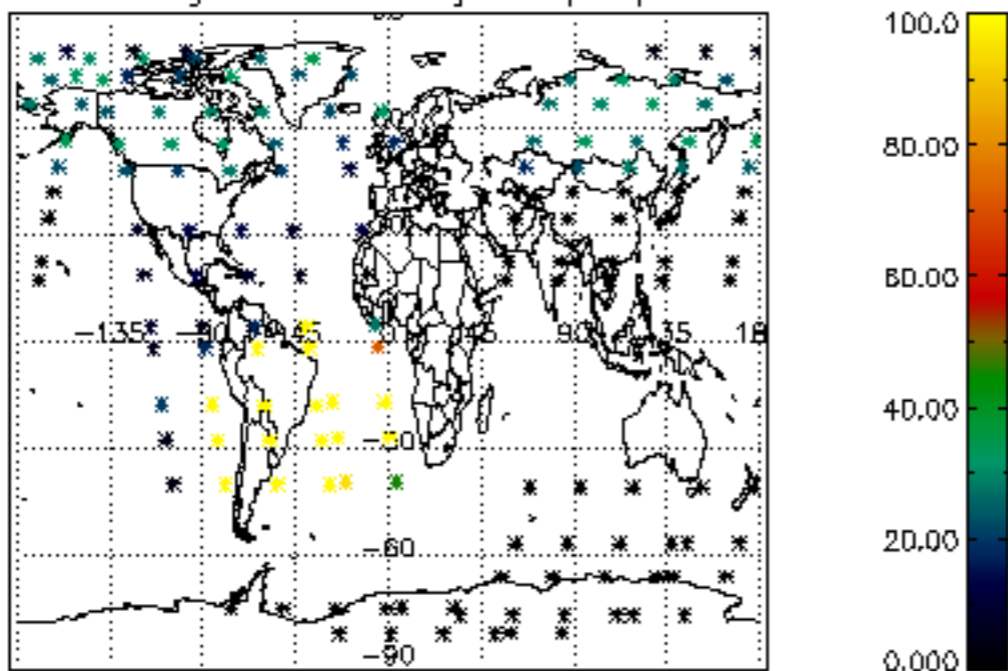




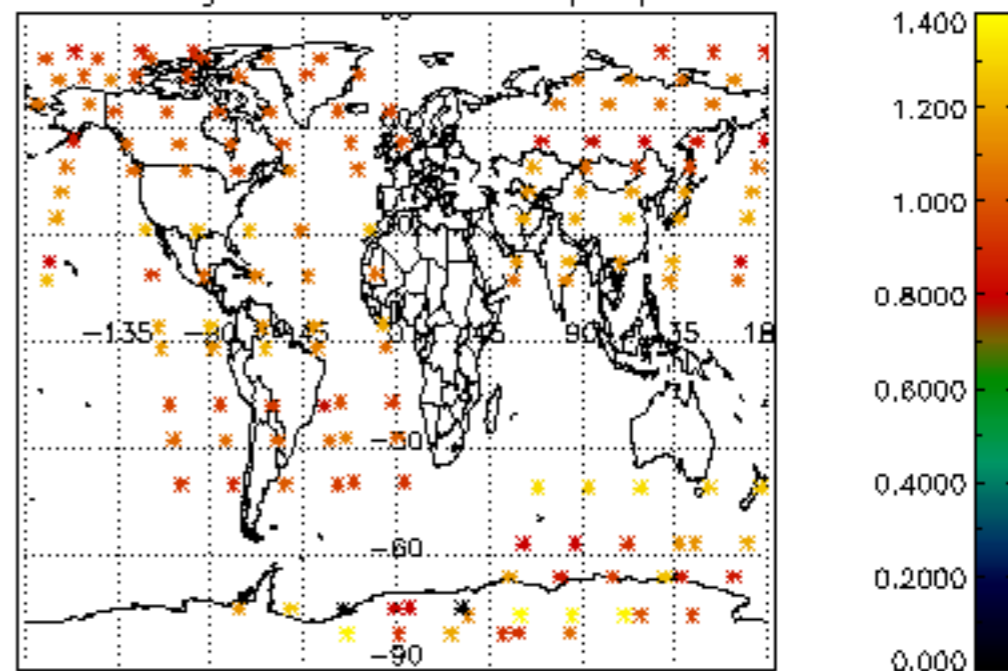




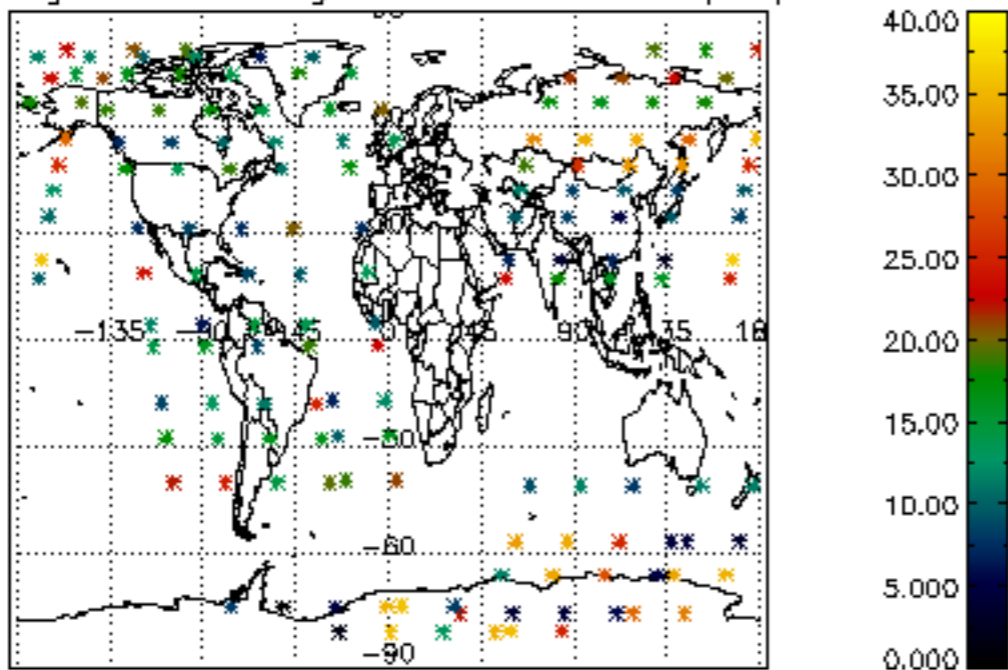
Percentage of cosmic ray hits per profile



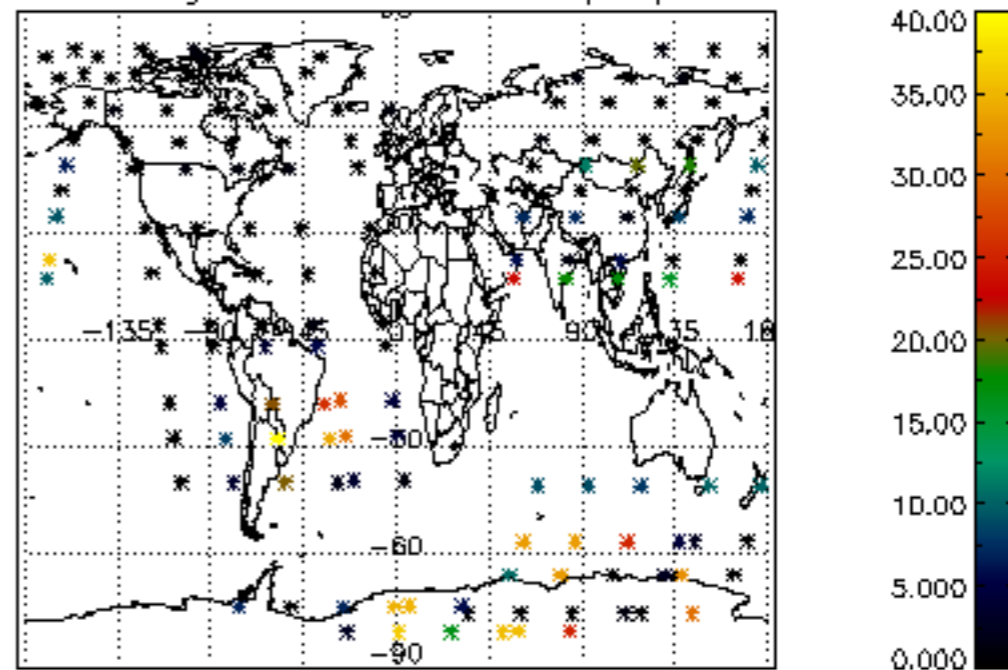
Percentage of datation errors per profile



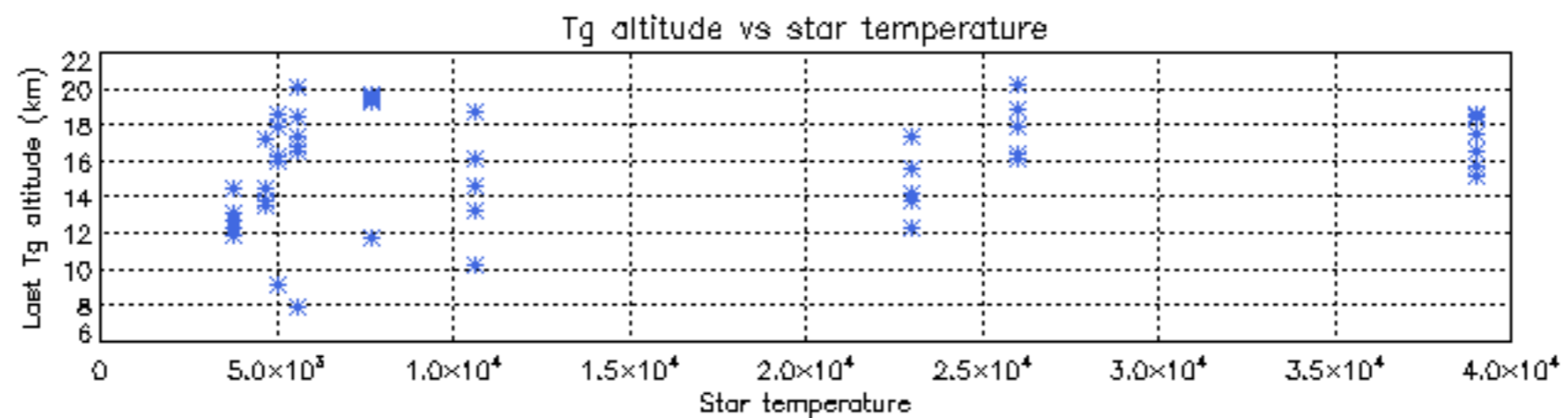
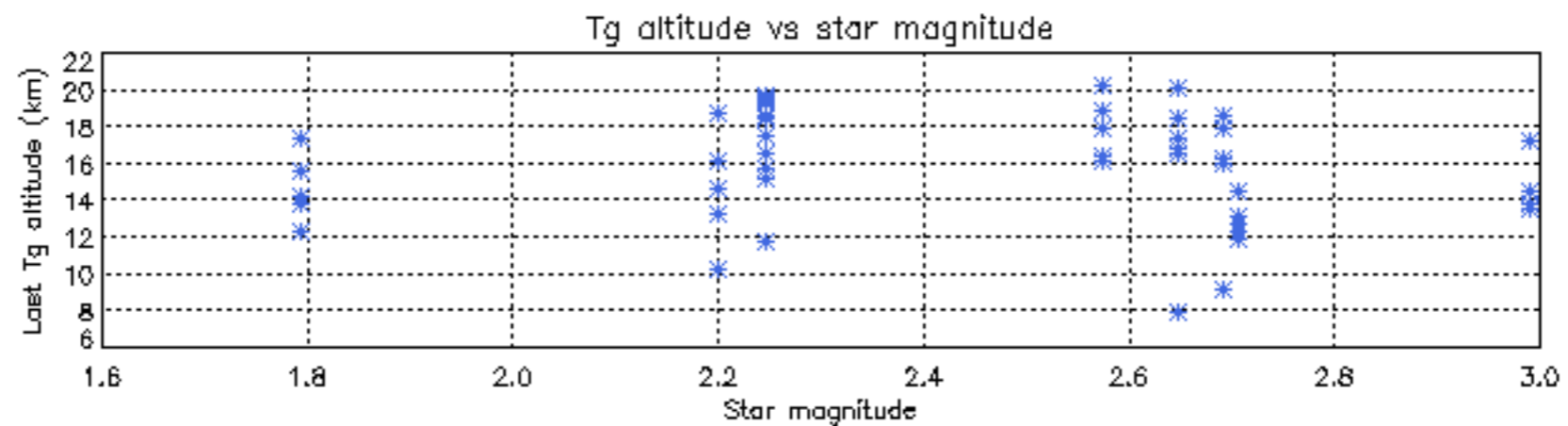
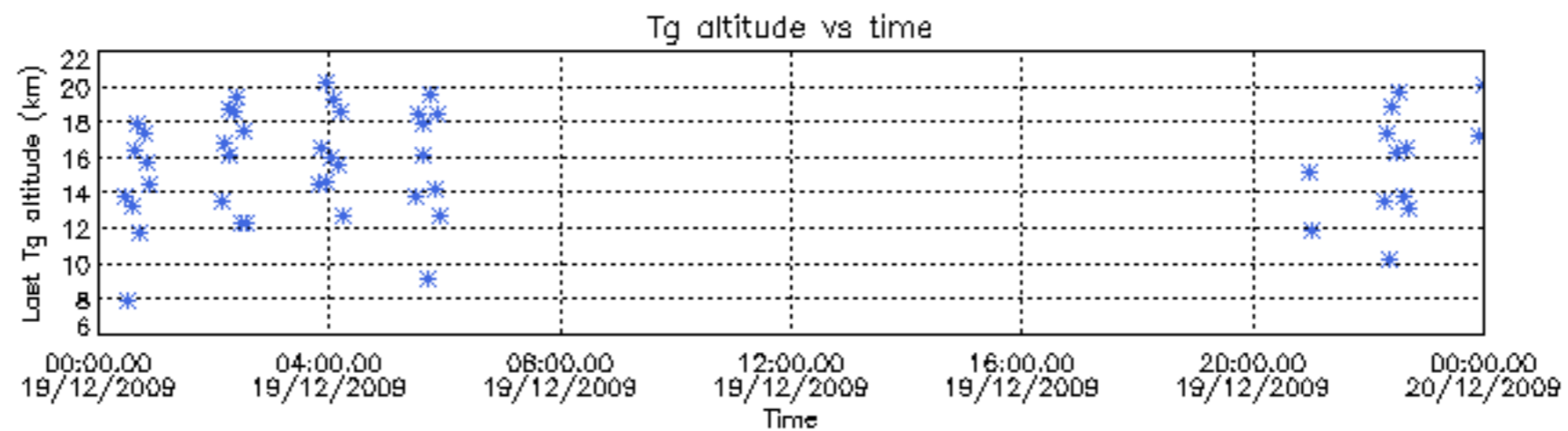
Percentage of star falling outside central band per profile



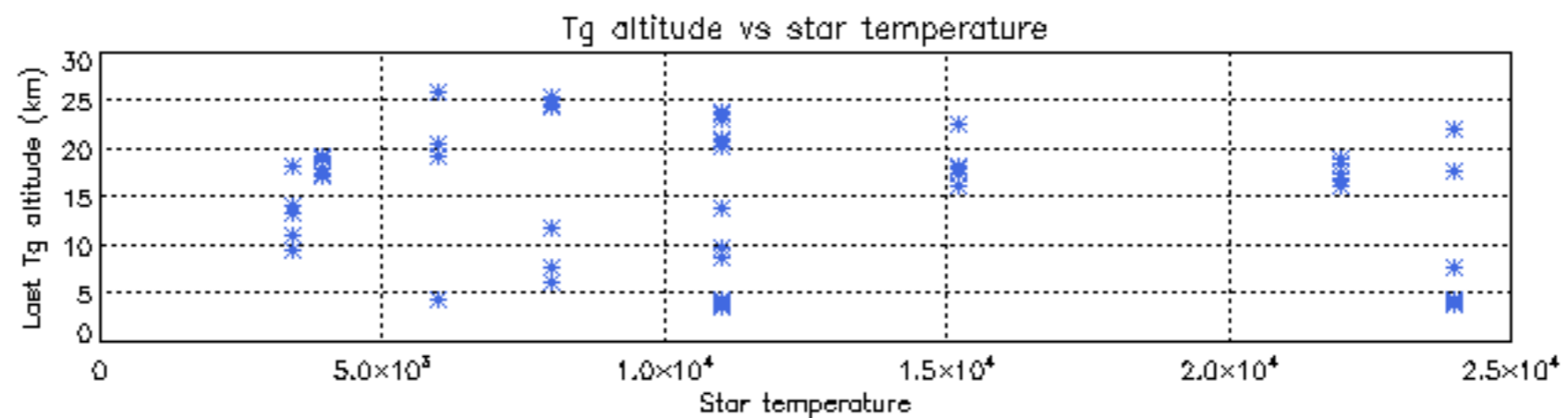
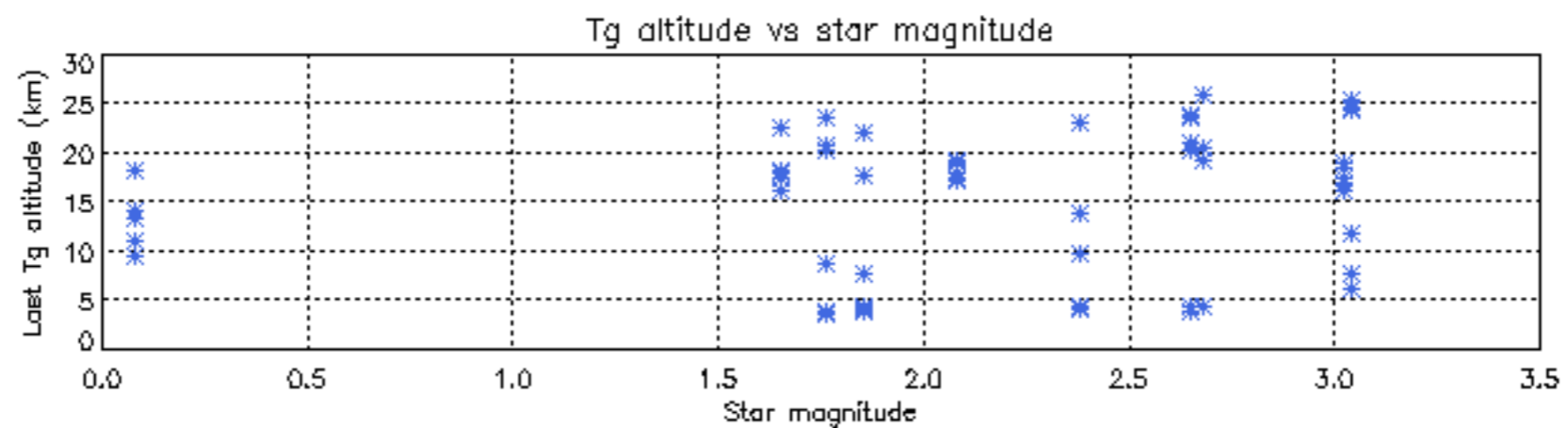
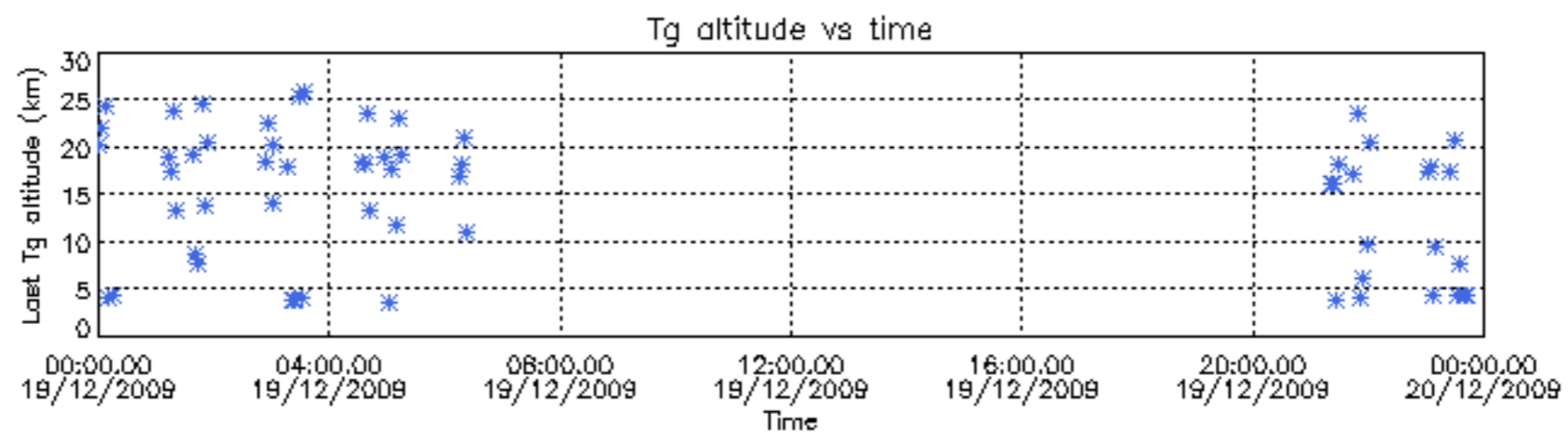
Percentage of saturation errors per profile

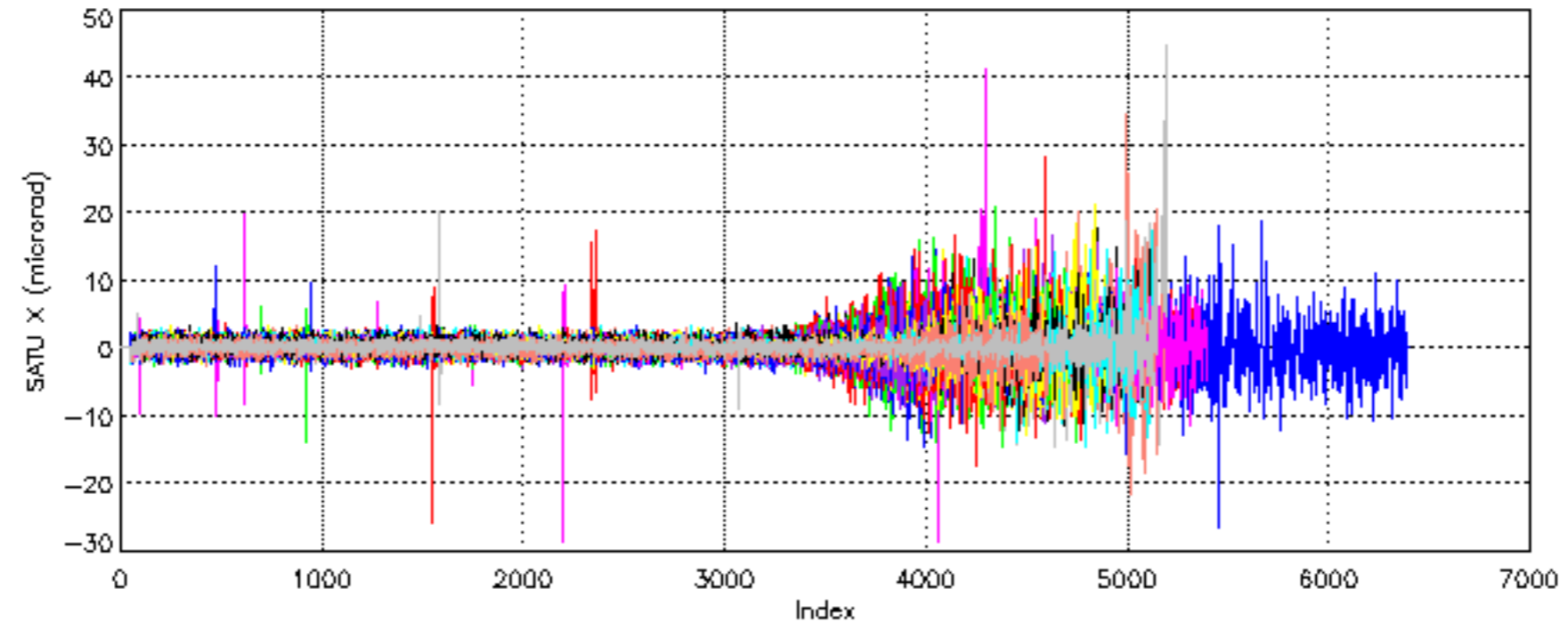


Tangent altitude at which the star is lost

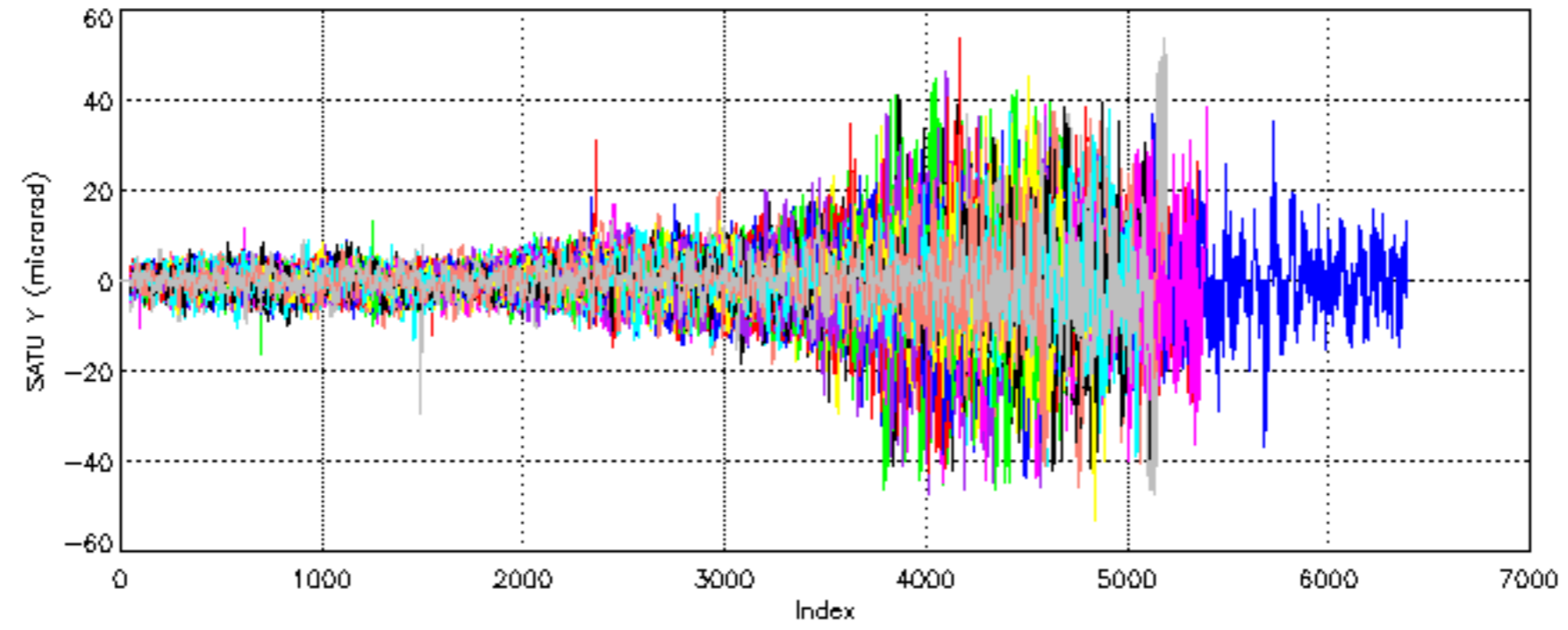


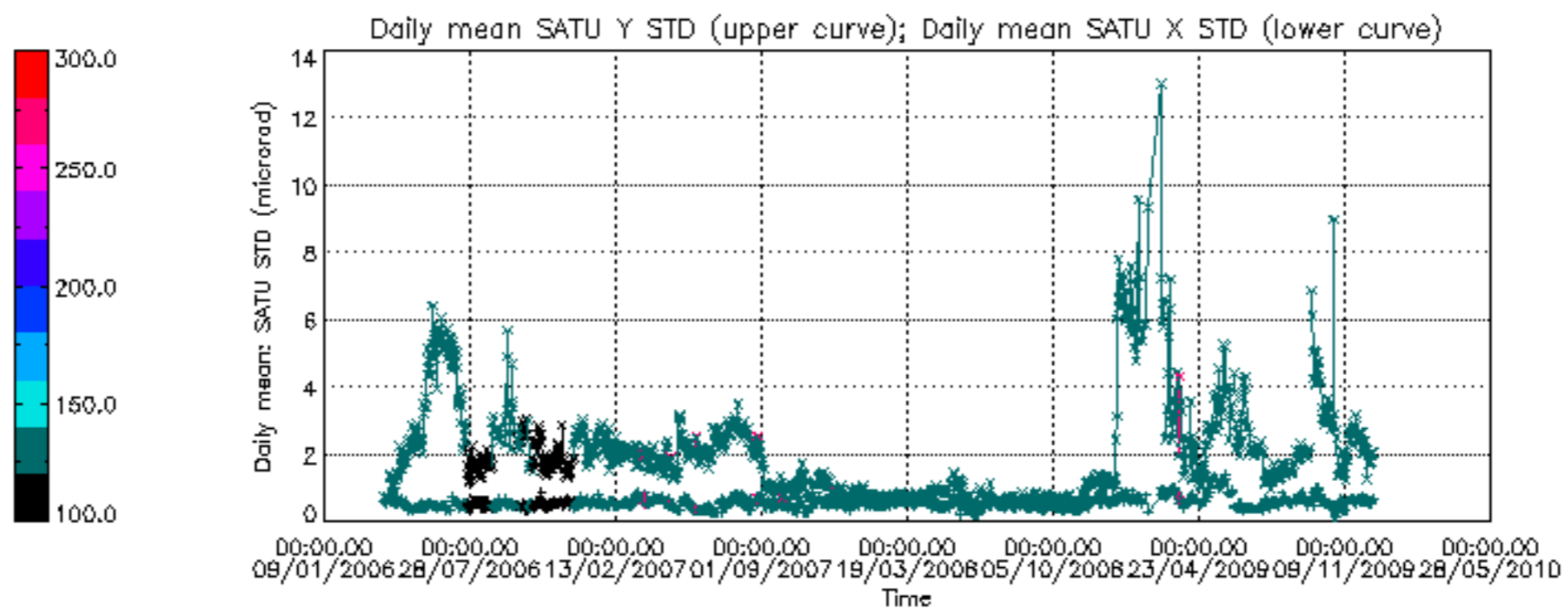
Tangent altitude at which the star is lost











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 9; 2832.8; 02-DEC-2009 17:01:40; Bright; 50.0; 6; 13Alp Aur ; 0.08; 3400;occ; 100; 0;40561
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16; 2200.1; 09-DEC-2009 23:13:23; Dark ; 52.5; 13; 87Alp Tau ; 0.87; 3800;occ; 105; 0;40665
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22; 3999.0; 09-DEC-2009 23:43:22; Bright; 45.0; 32; 77Eps UMa ; 1.76; 11000;occ; 90; 0;40665
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4; -1895.1; 09-DEC-2009 06:59:45; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;40655
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12; 4353.4; 09-DEC-2009 08:43:53; Bright; 63.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 126; 0;40656
13; 4703.0; 09-DEC-2009 08:49:43; Bright; 50.0; 111; 8Eta Boo ; 2.68; 6000;occ; 100; 0;40656
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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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 11; 4331.3; 11-DEC-2009 07:40:17; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;40684  
 12; 4710.4; 11-DEC-2009 07:46:36; Bright; 57.0; 111; 8Eta Boo ; 2.68; 6000;occ; 114; 0;40684  
 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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 17; 5699.1; 11-DEC-2009 08:03:05; Dark ; 53.5; 171; 2Eps Crv ; 3.00; 4250;occ; 107; 0;40684  
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 21; 6490.9; 11-DEC-2009 08:16:17; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;40684  
 22; 6563.6; 11-DEC-2009 08:17:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40684  
 23; 6763.3; 11-DEC-2009 08:20:49; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40684  
 24; 6913.2; 11-DEC-2009 08:23:19; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;40684  
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 26; 7269.3; 11-DEC-2009 08:29:15; Dark ; 55.0; 23; 21Eps CMa ; 1.50; 26000;occ; 110; 0;40684  
 27; 7563.5; 11-DEC-2009 08:34:09; Dark ; 29.0; 47; 2Bet CMa ; 1.98; 28000;occ; 58; 0;40684  
 28; 7784.0; 11-DEC-2009 08:37:50; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;40684

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 4; 2197.1; 11-DEC-2009 08:45:19; Dark ; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;40685  
 5; 2451.3; 11-DEC-2009 08:49:33; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;40685  
 6; 2591.4; 11-DEC-2009 08:51:53; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;40685  
 7; 2767.4; 11-DEC-2009 08:54:49; Bright; 60.0; 6; 13Alp Aur ; 0.08; 3400;occ; 120; 0;40685  
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 10; 4140.1; 11-DEC-2009 09:17:42; Bright; 41.5; 39; 85Eta UMa ; 1.85; 24000;occ; 83; 0;40685  
 11; 4331.5; 11-DEC-2009 09:20:53; Bright; 53.0; 180; 27Gam Boo ; 3.04; 8000;occ; 106; 0;40685  
 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  
 14; 5282.3; 11-DEC-2009 09:36:44; Dark ; 54.0; 15; 67Alp Vir ; 0.98; 28000;occ; 108; 0;40685  
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 16; 5604.0; 11-DEC-2009 09:42:06; Dark ; 55.0; 100; 4Gam Crv ; 2.58; 13100;occ; 110; 0;40685  
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 19; 6030.3; 11-DEC-2009 09:49:12; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;40685  
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 21; 6491.5; 11-DEC-2009 09:56:53; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40685  
 22; 6564.3; 11-DEC-2009 09:58:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40685  
 23; 6764.1; 11-DEC-2009 10:01:26; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;40685  
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 26; 7269.8; 11-DEC-2009 10:09:52; Dark ; 55.0; 23; 21Eps CMa ; 1.50; 26000;occ; 110; 0;40685  
 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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4; 2040.2; 11-DEC-2009 10:23:18; Dark ; 51.0; 27; 24Gam Ori ; 1.64; 26000;occ; 102; 0;40686  
5; 2196.9; 11-DEC-2009 10:25:55; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;40686  
6; 2355.8; 11-DEC-2009 10:28:33; Bright; 46.0; 176; 23Zet Tau ; 3.02; 22000;occ; 92; 0;40686  
7; 2477.3; 11-DEC-2009 10:30:35; Bright; 46.5; 28; 12Bet Tau ; 1.65; 15200;occ; 93; 0;40686  
8; 2591.4; 11-DEC-2009 10:32:29; Bright; 53.0; 149; 45Eps Per ; 2.89; 30000;occ; 106; 0;40686  
9; 2766.9; 11-DEC-2009 10:35:25; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;40686  
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13; 4331.5; 11-DEC-2009 11:01:29; Bright; 46.5; 180; 27Gam Boo ; 3.04; 8000;occ; 93; 0;40686  
14; 4711.2; 11-DEC-2009 11:07:49; Bright; 57.0; 111; 8Eta Boo ; 2.68; 6000;occ; 114; 0;40686  
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16; 5283.0; 11-DEC-2009 11:17:21; Dark ; 50.5; 15; 67Alp Vir ; 0.98; 28000;occ; 101; 0;40686  
17; 5491.5; 11-DEC-2009 11:20:49; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;40686  
18; 5605.0; 11-DEC-2009 11:22:43; Dark ; 56.0; 100; 4Gam Crv ; 2.58; 13100;occ; 112; 0;40686  
19; 5701.3; 11-DEC-2009 11:24:19; Dark ; 55.5; 171; 2Eps Crv ; 3.00; 4250;occ; 111; 0;40686  
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23; 6492.1; 11-DEC-2009 11:37:30; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;40686  
24; 6565.1; 11-DEC-2009 11:38:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40686  
25; 6764.9; 11-DEC-2009 11:42:03; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;40686  
26; 6913.8; 11-DEC-2009 11:44:32; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;40686  
27; 7065.4; 11-DEC-2009 11:47:03; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;40686  
28; 7270.1; 11-DEC-2009 11:50:28; Dark ; 56.0; 23; 21Eps CMa ; 1.50; 26000;occ; 112; 0;40686  
29; 7563.9; 11-DEC-2009 11:55:22; Dark ; 34.5; 47; 2Bet CMa ; 1.98; 28000;occ; 69; 0;40686

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4; 2040.0; 11-DEC-2009 12:03:54; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;40687  
5; 2196.8; 11-DEC-2009 12:06:30; Dark ; 47.5; 13; 87Alp Tau ; 0.87; 3800;occ; 95; 0;40687  
6; 2355.6; 11-DEC-2009 12:09:09; Bright; 46.5; 176; 23Zet Tau ; 3.02; 22000;occ; 93; 0;40687  
7; 2476.9; 11-DEC-2009 12:11:10; Bright; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;40687  
8; 2591.1; 11-DEC-2009 12:13:05; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0;40687  
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11; 3995.2; 11-DEC-2009 12:36:29; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;40687  
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13; 4331.7; 11-DEC-2009 12:42:05; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;40687  
14; 4711.5; 11-DEC-2009 12:48:25; Bright; 57.0; 111; 8Eta Boo ; 2.68; 6000;occ; 114; 0;40687  
15; 4929.1; 11-DEC-2009 12:52:03; Bright; 68.0; 138; 47Eps Vir ; 2.83; 4700;occ; 136; 0;40687  
16; 5283.6; 11-DEC-2009 12:57:57; Dark ; 49.5; 15; 67Alp Vir ; 0.98; 28000;occ; 99; 0;40687  
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18; 5606.4; 11-DEC-2009 13:03:20; Dark ; 52.5; 100; 4Gam Crv ; 2.58; 13100;occ; 105; 0;40687  
19; 5702.6; 11-DEC-2009 13:04:56; Dark ; 52.5; 171; 2Eps Crv ; 3.00; 4250;occ; 105; 0;40687  
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21; 6031.6; 11-DEC-2009 13:10:25; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;40687  
22; 6249.0; 11-DEC-2009 13:14:03; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40687  
23; 6492.6; 11-DEC-2009 13:18:06; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;40687  
24; 6565.9; 11-DEC-2009 13:19:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40687  
25; 6765.8; 11-DEC-2009 13:22:39; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;40687  
26; 6914.5; 11-DEC-2009 13:25:08; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;40687  
27; 7066.0; 11-DEC-2009 13:27:40; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;40687  
28; 7270.8; 11-DEC-2009 13:31:04; Dark ; 53.0; 23; 21Eps CMa ; 1.50; 26000;occ; 106; 0;40687  
29; 7564.3; 11-DEC-2009 13:35:58; Dark ; 40.5; 47; 2Bet CMa ; 1.98; 28000;occ; 81; 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  
5; 2196.7; 11-DEC-2009 13:47:06; Dark ; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;40688  
6; 2355.0; 11-DEC-2009 13:49:44; Bright; 47.5; 176; 23Zet Tau ; 3.02; 22000;occ; 95; 0;40688  
7; 2476.3; 11-DEC-2009 13:51:46; Bright; 45.0; 28; 12Bet Tau ; 1.65; 15200;occ; 90; 0;40688  
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12; 4140.3; 11-DEC-2009 14:19:30; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;40688
13; 4332.0; 11-DEC-2009 14:22:41; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;40688
14; 4711.8; 11-DEC-2009 14:29:01; Bright; 57.0; 111; 8Eta Boo ; 2.68; 6000;occ; 114; 0;40688
15; 4929.8; 11-DEC-2009 14:32:39; Bright; 68.0; 138; 47Eps Vir ; 2.83; 4700;occ; 136; 0;40688
16; 5230.2; 11-DEC-2009 14:37:40; Dark ; 56.0; 121; 29Gam Vir ; 2.74; 7200;occ; 112; 0;40688
17; 5492.8; 11-DEC-2009 14:42:02; Dark ; 45.0; 169; 46Gam Hya ; 2.99; 4700;occ; 90; 0;40688
18; 5607.5; 11-DEC-2009 14:43:57; Dark ; 50.5; 100; 4Gam Crv ; 2.58; 13100;occ; 101; 0;40688
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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22; 6249.9; 11-DEC-2009 14:54:39; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;40688
23; 6493.4; 11-DEC-2009 14:58:43; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 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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17; 5493.6; 11-DEC-2009 16:22:39; Dark ; 46.0; 169; 46Gam Hya ; 2.99; 4700;occ; 92; 0;40689
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19; 5705.1; 11-DEC-2009 16:26:10; Dark ; 52.5; 171; 2Eps Crv ; 3.00; 4250;occ; 105; 0;40689
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22; 6250.9; 11-DEC-2009 16:35:16; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40689
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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
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17; 5232.4; 11-DEC-2009 17:58:54; Dark ; 56.0; 121; 29Gam Vir ; 2.74; 7200;occ; 112; 0;40690
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 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  
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 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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 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  
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 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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 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  
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 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  
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 19; 2451.0; 12-DEC-2009 01:35:32; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;40695  
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 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  
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5; 1.0; 12-DEC-2009 02:35:18; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;40696  
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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  
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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  
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23; 2037.7; 12-DEC-2009 04:49:51; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;40697  
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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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29; 2762.3; 12-DEC-2009 05:01:55; Bright; 47.0; 6; 13Alp Aur ; 0.08; 3400;occ; 94; 0;40697

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21; 1748.1; 12-DEC-2009 06:25:37; Dark ; 50.5; 7; 19Bet Ori ; 0.10; 14000;occ; 101; 0;40698
22; 1891.8; 12-DEC-2009 06:28:01; Dark ; 50.0; 30; 46Eps Ori ; 1.69; 30000;occ; 100; 0;40698
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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
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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
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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

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 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  
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 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  
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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  
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 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  
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 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  
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 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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 3; 1243.2; 12-DEC-2009 19:42:00; Dark ; 57.0; 23; 21Eps CMa ; 1.50; 26000;occ; 114; 0;40706  
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 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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 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  
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13; 1243.7; 12-DEC-2009 21:22:36; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;40707  
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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  
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19; 2345.0; 12-DEC-2009 21:40:57; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 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  
24; 3751.7; 12-DEC-2009 22:04:24; Bright; 48.0; 36; 50Alp UMa ; 1.80; 6300;occ; 96; 0;40707  
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  
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4; -309.6; 12-DEC-2009 22:37:19; Dark ; 63.0; 171; 2Eps Crv ; 3.00; 4250;occ; 126; 0;40707  
5; -85.9; 12-DEC-2009 22:41:02; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;40707  
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  
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24; 3751.3; 12-DEC-2009 23:45:00; Bright; 43.0; 36; 50Alp UMa ; 1.80; 6300;occ; 86; 0;40708  
25; 3991.3; 12-DEC-2009 23:49:00; Bright; 44.0; 32; 77Eps UMa ; 1.76; 11000;occ; 88; 0;40708  
26; 4139.5; 12-DEC-2009 23:51:28; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;40708  
27; 4334.0; 12-DEC-2009 23:54:42; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;40708  
28; 4717.3; 13-DEC-2009 00:01:06; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;40708  
29; 4941.2; 13-DEC-2009 00:04:50; Bright; 70.0; 138; 47Eps Vir ; 2.83; 4700;occ; 140; 0;40708  
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4; -85.5; 13-DEC-2009 00:21:39; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40708  
5; 9.4; 13-DEC-2009 00:23:14; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;40709  
6; 231.4; 13-DEC-2009 00:26:56; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;40709  
7; 470.0; 13-DEC-2009 00:30:54; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;40709  
8; 546.4; 13-DEC-2009 00:32:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40709  
9; 745.4; 13-DEC-2009 00:35:30; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;40709  
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23; 6785.3; 13-DEC-2009 08:58:33; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;40713
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4; 2192.1; 14-DEC-2009 10:31:35; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;40729
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27; 7091.4; 14-DEC-2009 11:53:15; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;40729  
28; 7290.0; 14-DEC-2009 11:56:33; Dark ; 53.5; 23; 21Eps CMa ; 1.50; 26000;occ; 107; 0;40729  
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 17; 5540.4; 16-DEC-2009 08:43:34; Dark ; 47.5; 169; 46Gam Hya ; 2.99; 4700;occ; 95; 0;40756  
 18; 5691.9; 16-DEC-2009 08:46:05; Dark ; 51.0; 106; 9Bet Crv ; 2.65; 5600;occ; 102; 0;40756  
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 20; 5979.9; 16-DEC-2009 08:50:53; Dark ; 48.5; 64; Gam Cen ; 2.20; 10600;occ; 97; 0;40756  
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 22; 6310.0; 16-DEC-2009 08:56:23; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40756  
 23; 6536.0; 16-DEC-2009 09:00:10; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;40756  
 24; 6618.6; 16-DEC-2009 09:01:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40756  
 25; 6816.4; 16-DEC-2009 09:04:50; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40756  
 26; 6944.2; 16-DEC-2009 09:06:58; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40756  
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 31; 7786.0; 16-DEC-2009 09:21:00; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;40756

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 9; 3704.5; 16-DEC-2009 09:53:34; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40757  
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 11; 4137.4; 16-DEC-2009 10:00:47; Bright; 58.0; 39; 85Eta UMa ; 1.85; 24000;occ; 116; 0;40757  
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 15; 4972.7; 16-DEC-2009 10:14:42; Bright; 48.0; 138; 47Eps Vir ; 2.83; 4700;occ; 96; 0;40757  
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27; 6945.6; 16-DEC-2009 12:28:11; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;40758
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30; 7302.4; 16-DEC-2009 12:34:08; Dark ; 52.0; 23; 21Eps CMa ; 1.50; 26000;occ; 104; 0;40758
31; 7574.3; 16-DEC-2009 12:38:40; Dark ; 48.5; 47; 2Bet CMa ; 1.98; 28000;occ; 97; 0;40758
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13; 4338.9; 16-DEC-2009 13:25:20; Bright; 55.0; 180; 27Gam Boo ; 3.04; 8000;occ; 110; 0;40759
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 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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1; 1540.5; 17-DEC-2009 13:47:41; Dark ; 50.0; 47; 2Bet CMa ; 1.98; 28000;occ; 100; 0;40774  
 2; 1750.9; 17-DEC-2009 13:51:11; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;40774  
 3; 1883.2; 17-DEC-2009 13:53:23; Dark ; 48.5; 30; 46Eps Ori ; 1.69; 30000;occ; 97; 0;40774  
 4; 2067.5; 17-DEC-2009 13:56:28; Dark ; 57.0; 14; 58Alp Ori ; 0.87; 3000;occ; 114; 0;40774  
 5; 2189.3; 17-DEC-2009 13:58:30; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;40774  
 6; 2316.4; 17-DEC-2009 14:00:37; Bright; 41.5; 176; 23Zet Tau ; 3.02; 22000;occ; 83; 0;40774  
 7; 2440.1; 17-DEC-2009 14:02:40; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;40774  
 8; 2651.5; 17-DEC-2009 14:06:12; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;40774  
 9; 2782.5; 17-DEC-2009 14:08:23; Bright; 43.5; 42; 34Bet Aur ; 1.90; 10200;occ; 87; 0;40774  
 10; 3704.2; 17-DEC-2009 14:23:44; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;40774  
 11; 3977.7; 17-DEC-2009 14:28:18; Bright; 42.0; 32; 77Eps UMA ; 1.76; 11000;occ; 84; 0;40774  
 12; 4136.1; 17-DEC-2009 14:30:56; Bright; 39.5; 39; 85Eta UMA ; 1.85; 24000;occ; 79; 0;40774  
 13; 4340.1; 17-DEC-2009 14:34:20; Bright; 55.0; 180; 27Gam Boo ; 3.04; 8000;occ; 110; 0;40774  
 14; 4535.1; 17-DEC-2009 14:37:35; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;40774  
 15; 4738.0; 17-DEC-2009 14:40:58; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;40774  
 16; 5343.8; 17-DEC-2009 14:51:04; Dark ; 54.5; 15; 67Alp Vir ; 0.98; 28000;occ; 109; 0;40774  
 17; 5554.5; 17-DEC-2009 14:54:35; Dark ; 47.0; 169; 46Gam Hya ; 2.99; 4700;occ; 94; 0;40774  
 18; 5711.8; 17-DEC-2009 14:57:12; Dark ; 51.5; 106; 9Bet Crv ; 2.65; 5600;occ; 103; 0;40774  
 19; 5991.4; 17-DEC-2009 15:01:52; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40774  
 20; 6090.7; 17-DEC-2009 15:03:31; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40774  
 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  
 24; 6828.8; 17-DEC-2009 15:15:49; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40774  
 25; 6957.5; 17-DEC-2009 15:17:58; Dark ; 51.0; 70; Zet Pup ; 2.25; 39000;occ; 102; 0;40774  
 26; 7116.7; 17-DEC-2009 15:20:37; Dark ; 52.0; 117; Pi Pup ; 2.71; 3800;occ; 104; 0;40774  
 27; 7309.0; 17-DEC-2009 15:23:49; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;40774  
 28; 7415.0; 17-DEC-2009 15:25:35; Dark ; 10.5; 179; 240mi2CMA ; 3.03; 24000;occ; 21; 0;40774

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1; 1379.1; 17-DEC-2009 15:25:35; Dark ; 50.0; 179; 240mi2CMA ; 3.03; 24000;occ; 100; 0;40775  
 2; 1540.7; 17-DEC-2009 15:28:17; Dark ; 50.5; 47; 2Bet CMA ; 1.98; 28000;occ; 101; 0;40775  
 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  
 8; 2439.5; 17-DEC-2009 15:43:16; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;40775  
 9; 2651.0; 17-DEC-2009 15:46:47; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;40775  
 10; 2782.0; 17-DEC-2009 15:48:58; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;40775  
 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  
 15; 4535.1; 17-DEC-2009 16:18:11; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;40775  
 16; 4738.2; 17-DEC-2009 16:21:34; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;40775  
 17; 5344.7; 17-DEC-2009 16:31:41; Dark ; 54.5; 15; 67Alp Vir ; 0.98; 28000;occ; 109; 0;40775  
 18; 5555.2; 17-DEC-2009 16:35:11; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;40775  
 19; 5712.9; 17-DEC-2009 16:37:49; Dark ; 58.0; 106; 9Bet Crv ; 2.65; 5600;occ; 116; 0;40775  
 20; 5992.1; 17-DEC-2009 16:42:28; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;40775  
 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  
 24; 6632.8; 17-DEC-2009 16:53:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40775  
 25; 6829.6; 17-DEC-2009 16:56:26; Dark ; 54.0; 34; Gam2Vel ; 1.79; 23000;occ; 108; 0;40775  
 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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1; 1273.4; 17-DEC-2009 17:04:26; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;40776  
 2; 1379.5; 17-DEC-2009 17:06:12; Dark ; 51.5; 179; 240mi2CMA ; 3.03; 24000;occ; 103; 0;40776  
 3; 1557.5; 17-DEC-2009 17:09:10; Dark ; 27.0; 1; 9Alp CMA ; -1.44; 11000;occ; 54; 0;40776  
 4; 1751.1; 17-DEC-2009 17:12:23; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;40776  
 5; 1882.9; 17-DEC-2009 17:14:35; Dark ; 48.0; 30; 46Eps Ori ; 1.69; 30000;occ; 96; 0;40776  
 6; 2067.1; 17-DEC-2009 17:17:39; Dark ; 57.5; 14; 58Alp Ori ; 0.87; 3000;occ; 115; 0;40776  
 7; 2189.1; 17-DEC-2009 17:19:41; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;40776  
 8; 2315.8; 17-DEC-2009 17:21:48; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;40776  
 9; 2439.2; 17-DEC-2009 17:23:51; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;40776  
 10; 2650.2; 17-DEC-2009 17:27:22; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;40776  
 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  
 20; 5714.2; 17-DEC-2009 18:18:26; Dark ; 51.5; 106; 9Bet Crv ; 2.65; 5600;occ; 103; 0;40776  
 21; 5992.9; 17-DEC-2009 18:23:05; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40776  
 22; 6092.2; 17-DEC-2009 18:24:44; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40776  
 23; 6327.9; 17-DEC-2009 18:28:40; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;40776  
 24; 6548.4; 17-DEC-2009 18:32:21; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;40776  
 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  
 27; 6959.2; 17-DEC-2009 18:39:11; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;40776

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1; 1082.0; 17-DEC-2009 18:41:50; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;40777  
 2; 1273.8; 17-DEC-2009 18:45:02; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;40777  
 3; 1379.5; 17-DEC-2009 18:46:48; Dark ; 54.0; 179; 240mi2CMA ; 3.03; 24000;occ; 108; 0;40777  
 4; 1557.8; 17-DEC-2009 18:49:46; Dark ; 27.0; 1; 9Alp CMA ; -1.44; 11000;occ; 54; 0;40777



5; 1751.1; 17-DEC-2009 18:52:59; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;40777  
6; 1883.0; 17-DEC-2009 18:55:11; Dark ; 48.5; 30; 46Eps Ori ; 1.69; 30000;occ; 97; 0;40777  
7; 2066.6; 17-DEC-2009 18:58:15; Dark ; 56.0; 14; 58Alp Ori ; 0.87; 3000;occ; 112; 0;40777  
8; 2189.1; 17-DEC-2009 19:00:17; Dark ; 44.5; 13; 87Alp Tau ; 0.87; 3800;occ; 89; 0;40777  
9; 2315.1; 17-DEC-2009 19:02:23; Bright; 43.5; 176; 23Zet Tau ; 3.02; 22000;occ; 87; 0;40777  
10; 2438.6; 17-DEC-2009 19:04:27; Bright; 56.5; 28; 12Bet Tau ; 1.65; 15200;occ; 113; 0;40777  
11; 2649.6; 17-DEC-2009 19:07:58; Bright; 45.0; 107; 37The Aur ; 2.65; 11000;occ; 90; 0;40777  
12; 2780.9; 17-DEC-2009 19:10:09; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;40777  
13; 3704.1; 17-DEC-2009 19:25:32; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40777  
14; 3977.1; 17-DEC-2009 19:30:05; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;40777  
15; 4136.1; 17-DEC-2009 19:32:44; Bright; 58.0; 39; 85Eta UMa ; 1.85; 24000;occ; 116; 0;40777  
16; 4340.3; 17-DEC-2009 19:36:09; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;40777  
17; 4535.6; 17-DEC-2009 19:39:24; Bright; 38.5; 83; ; 2.38; 11000;occ; 77; 0;40777  
18; 4738.7; 17-DEC-2009 19:42:47; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;40777  
19; 5346.1; 17-DEC-2009 19:52:54; Dark ; 52.5; 15; 67Alp Vir ; 0.98; 28000;occ; 105; 0;40777  
20; 5556.6; 17-DEC-2009 19:56:25; Dark ; 45.0; 169; 46Gam Hya ; 2.99; 4700;occ; 90; 0;40777  
21; 5715.4; 17-DEC-2009 19:59:04; Dark ; 55.0; 106; 9Bet Crv ; 2.65; 5600;occ; 110; 0;40777  
22; 5993.2; 17-DEC-2009 20:03:41; Dark ; 50.5; 64; Gam Cen ; 2.20; 10600;occ; 101; 0;40777  
23; 6092.8; 17-DEC-2009 20:05:21; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;40777  
24; 6328.7; 17-DEC-2009 20:09:17; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40777  
25; 6548.8; 17-DEC-2009 20:12:57; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40777  
26; 6634.2; 17-DEC-2009 20:14:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40777  
27; 6831.0; 17-DEC-2009 20:17:39; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;40777

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3; 59.1; 18-DEC-2009 01:07:11; Dark ; 42.5; 99; Del Cen ; 2.58; 26000;occ; 85; 0;40781  
4; 295.4; 18-DEC-2009 01:11:07; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40781  
5; 514.6; 18-DEC-2009 01:14:46; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40781  
6; 600.5; 18-DEC-2009 01:16:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40781  
7; 797.0; 18-DEC-2009 01:19:29; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40781  
8; 926.0; 18-DEC-2009 01:21:38; Dark ; 51.0; 70; Zet Pup ; 2.25; 39000;occ; 102; 0;40781  
9; 1084.0; 18-DEC-2009 01:24:16; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;40781  
10; 1275.5; 18-DEC-2009 01:27:27; Dark ; 51.0; 23; 21Eps CMa ; 1.50; 26000;occ; 102; 0;40781  
11; 1381.0; 18-DEC-2009 01:29:13; Dark ; 52.0; 179; 240mi2CMa ; 3.03; 24000;occ; 104; 0;40781  
12; 1558.1; 18-DEC-2009 01:32:10; Dark ; 39.0; 1; 9Alp CMa ; -1.44; 11000;occ; 78; 0;40781  
13; 1751.1; 18-DEC-2009 01:35:23; Dark ; 48.0; 7; 19Bet Ori ; 0.10; 14000;occ; 96; 0;40781  
14; 1882.5; 18-DEC-2009 01:37:34; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;40781  
15; 2065.6; 18-DEC-2009 01:40:37; Dark ; 56.5; 14; 58Alp Ori ; 0.87; 3000;occ; 113; 0;40781  
16; 2188.7; 18-DEC-2009 01:42:41; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;40781  
17; 2313.7; 18-DEC-2009 01:44:46; Bright; 45.0; 176; 23Zet Tau ; 3.02; 22000;occ; 90; 0;40781  
18; 2437.4; 18-DEC-2009 01:46:49; Bright; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;40781  
19; 2647.4; 18-DEC-2009 01:50:19; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;40781  
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21; 3704.1; 18-DEC-2009 02:07:56; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;40781  
22; 3975.9; 18-DEC-2009 02:12:28; Bright; 62.0; 32; 77Eps UMa ; 1.76; 11000;occ; 124; 0;40781  
23; 4135.7; 18-DEC-2009 02:15:08; Bright; 16.5; 39; 85Eta UMa ; 1.85; 24000;occ; 33; 0;40781

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1; -1900.2; 18-DEC-2009 02:15:08; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;40781  
2; -1695.0; 18-DEC-2009 02:18:33; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;40781  
3; -1499.9; 18-DEC-2009 02:21:48; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;40781  
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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6; -476.0; 18-DEC-2009 02:38:52; Dark ; 47.5; 169; 46Gam Hya ; 2.99; 4700;occ; 95; 0;40781  
7; -316.0; 18-DEC-2009 02:41:32; Dark ; 59.0; 106; 9Bet Crv ; 2.65; 5600;occ; 118; 0;40781  
8; -40.1; 18-DEC-2009 02:46:08; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;40781  
9; 59.8; 18-DEC-2009 02:47:48; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40782  
10; 296.3; 18-DEC-2009 02:51:44; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40782  
11; 515.4; 18-DEC-2009 02:55:23; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40782  
12; 601.2; 18-DEC-2009 02:56:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40782  
13; 797.7; 18-DEC-2009 03:00:05; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40782  
14; 926.5; 18-DEC-2009 03:02:14; Dark ; 48.0; 70; Zet Pup ; 2.25; 39000;occ; 96; 0;40782  
15; 1084.5; 18-DEC-2009 03:04:52; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;40782  
16; 1275.8; 18-DEC-2009 03:08:04; Dark ; 53.5; 23; 21Eps CMa ; 1.50; 26000;occ; 107; 0;40782  
17; 1381.2; 18-DEC-2009 03:09:49; Dark ; 53.0; 179; 240mi2CMa ; 3.03; 24000;occ; 106; 0;40782  
18; 1558.1; 18-DEC-2009 03:12:46; Dark ; 45.0; 1; 9Alp CMa ; -1.44; 11000;occ; 90; 0;40782  
19; 1751.3; 18-DEC-2009 03:15:59; Dark ; 47.0; 7; 19Bet Ori ; 0.10; 14000;occ; 94; 0;40782  
20; 1882.5; 18-DEC-2009 03:18:10; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;40782

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22; 2188.7; 18-DEC-2009 03:23:16; Dark ; 46.5; 13; 87Alp Tau ; 0.87; 3800;occ; 93; 0;40782
23; 2313.3; 18-DEC-2009 03:25:21; Bright; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;40782
24; 2437.0; 18-DEC-2009 03:27:25; Bright; 44.5; 28; 12Bet Tau ; 1.65; 15200;occ; 89; 0;40782
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 11; 4135.1; 18-DEC-2009 10:38:07; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;40786  
 12; 4341.2; 18-DEC-2009 10:41:33; Bright; 53.5; 180; 27Gam Boo ; 3.04; 8000;occ; 107; 0;40786  
 13; 4536.8; 18-DEC-2009 10:44:49; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;40786  
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 23; 6837.0; 18-DEC-2009 11:23:09; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40786  
 24; 6966.1; 18-DEC-2009 11:25:18; Dark ; 48.0; 70; Zet Pup ; 2.25; 39000;occ; 96; 0;40786  
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 27; 7418.8; 18-DEC-2009 11:32:50; Dark ; 53.5; 179; 240mi2CMA ; 3.03; 24000;occ; 107; 0;40786  
 28; 7594.7; 18-DEC-2009 11:35:46; Dark ; 55.5; 1; 9Alp CMA ; -1.44; 11000;occ; 111; 0;40786

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 5; 2311.5; 18-DEC-2009 11:48:19; Bright; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;40787  
 6; 2435.4; 18-DEC-2009 11:50:23; Bright; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 0;40787  
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 11; 4135.3; 18-DEC-2009 12:18:43; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;40787  
 12; 4341.1; 18-DEC-2009 12:22:09; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;40787  
 13; 4537.1; 18-DEC-2009 12:25:25; Bright; 55.0; 83; ; 2.38; 11000;occ; 110; 0;40787  
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 27; 7418.7; 18-DEC-2009 13:13:26; Dark ; 52.5; 179; 240mi2CMA ; 3.03; 24000;occ; 105; 0;40787  
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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  
 14; 3973.5; 18-DEC-2009 18:58:25; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;40791  
 15; 4134.7; 18-DEC-2009 19:01:06; Bright; 52.0; 39; 85Eta UMa ; 1.85; 24000;occ; 104; 0;40791  
 16; 4341.6; 18-DEC-2009 19:04:33; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;40791  
 17; 4537.8; 18-DEC-2009 19:07:49; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;40791  
 18; 4743.5; 18-DEC-2009 19:11:15; Bright; 43.0; 111; 8Eta Boo ; 2.68; 6000;occ; 86; 0;40791  
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 21; 5731.7; 18-DEC-2009 19:27:43; Dark ; 53.0; 106; 9Bet Crv ; 2.65; 5600;occ; 106; 0;40791  
 22; 6002.4; 18-DEC-2009 19:32:14; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;40791  
 23; 6102.9; 18-DEC-2009 19:33:54; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40791  
 24; 6341.4; 18-DEC-2009 19:37:53; Dark ; 55.5; 113; Mu Vel ; 2.69; 5000;occ; 111; 0;40791  
 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  
 27; 6840.4; 18-DEC-2009 19:46:12; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;40791

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 5; 69.1; 19-DEC-2009 00:35:44; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;40795  
 6; 308.0; 19-DEC-2009 00:39:43; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40795  
 7; 523.3; 19-DEC-2009 00:43:18; Dark ; 47.0; 71; Iot Car ; 2.25; 7700;occ; 94; 0;40795  
 8; 610.6; 19-DEC-2009 00:44:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40795  
 9; 806.2; 19-DEC-2009 00:48:01; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;40795  
 10; 935.6; 19-DEC-2009 00:50:11; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40795  
 11; 1091.1; 19-DEC-2009 00:52:46; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;40795  
 12; 1280.7; 19-DEC-2009 00:55:56; Dark ; 50.0; 23; 21Eps CMa ; 1.50; 26000;occ; 100; 0;40795  
 13; 1385.0; 19-DEC-2009 00:57:40; Dark ; 53.5; 179; 240mi2CMa ; 3.03; 24000;occ; 107; 0;40795  
 14; 1559.4; 19-DEC-2009 01:00:34; Dark ; 60.0; 1; 9Alp CMa ; -1.44; 11000;occ; 120; 0;40795  
 15; 1752.0; 19-DEC-2009 01:03:47; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;40795  
 16; 1881.3; 19-DEC-2009 01:05:56; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;40795  
 17; 2061.4; 19-DEC-2009 01:08:56; Dark ; 59.5; 14; 58Alp Ori ; 0.87; 3000;occ; 119; 0;40795  
 18; 2188.2; 19-DEC-2009 01:11:03; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;40795  
 19; 2308.7; 19-DEC-2009 01:13:04; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 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  
 24; 3972.3; 19-DEC-2009 01:40:47; Bright; 55.5; 32; 77Eps UMa ; 1.76; 11000;occ; 111; 0;40795  
 25; 4134.4; 19-DEC-2009 01:43:29; Bright; 53.5; 39; 85Eta UMa ; 1.85; 24000;occ; 107; 0;40795  
 26; 4341.7; 19-DEC-2009 01:46:57; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;40795  
 27; 4538.5; 19-DEC-2009 01:50:13; Bright; 42.0; 83; ; 2.38; 11000;occ; 84; 0;40795  
 28; 4744.6; 19-DEC-2009 01:53:40; Bright; 42.5; 111; 8Eta Boo ; 2.68; 6000;occ; 85; 0;40795

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 4; -31.0; 19-DEC-2009 02:14:40; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40795  
 5; 69.7; 19-DEC-2009 02:16:21; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;40796  
 6; 308.9; 19-DEC-2009 02:20:20; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40796  
 7; 523.7; 19-DEC-2009 02:23:55; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40796  
 8; 611.3; 19-DEC-2009 02:25:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40796  
 9; 807.0; 19-DEC-2009 02:28:38; Dark ; 51.0; 34; Gam2Vel ; 1.79; 23000;occ; 102; 0;40796  
 10; 936.5; 19-DEC-2009 02:30:47; Dark ; 49.5; 70; Zet Pup ; 2.25; 39000;occ; 99; 0;40796

11; 1091.7; 19-DEC-2009 02:33:23; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;40796  
 12; 1281.3; 19-DEC-2009 02:36:32; Dark ; 53.0; 23; 21Eps CMa ; 1.50; 26000;occ; 106; 0;40796  
 13; 1385.5; 19-DEC-2009 02:38:16; Dark ; 51.0; 179; 240mi2CMa ; 3.03; 24000;occ; 102; 0;40796  
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 15; 1751.9; 19-DEC-2009 02:44:23; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;40796  
 16; 1881.3; 19-DEC-2009 02:46:32; Dark ; 47.5; 30; 46Eps Ori ; 1.69; 30000;occ; 95; 0;40796  
 17; 2061.4; 19-DEC-2009 02:49:32; Dark ; 63.0; 14; 58Alp Ori ; 0.87; 3000;occ; 126; 0;40796  
 18; 2188.2; 19-DEC-2009 02:51:39; Dark ; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;40796  
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 21; 2639.1; 19-DEC-2009 02:59:10; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;40796  
 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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 3;-1901.4; 19-DEC-2009 03:24:05; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;40796  
 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  
 6;-1290.6; 19-DEC-2009 03:34:16; Bright; 39.5; 111; 8Eta Boo ; 2.68; 6000;occ; 79; 0;40796  
 7; -674.7; 19-DEC-2009 03:44:32; Dark ; 57.0; 15; 67Alp Vir ; 0.98; 28000;occ; 114; 0;40796  
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 9; -298.4; 19-DEC-2009 03:50:48; Dark ; 54.0; 106; 9Bet Crv ; 2.65; 5600;occ; 108; 0;40796  
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 11; 70.7; 19-DEC-2009 03:56:58; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40797  
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 13; 524.4; 19-DEC-2009 04:04:31; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40797  
 14; 612.0; 19-DEC-2009 04:05:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40797  
 15; 807.7; 19-DEC-2009 04:09:15; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40797  
 16; 937.4; 19-DEC-2009 04:11:24; Dark ; 48.5; 70; Zet Pup ; 2.25; 39000;occ; 97; 0;40797  
 17; 1092.5; 19-DEC-2009 04:13:59; Dark ; 51.0; 117; Pi Pup ; 2.71; 3800;occ; 102; 0;40797  
 18; 1281.8; 19-DEC-2009 04:17:09; Dark ; 52.0; 23; 21Eps CMa ; 1.50; 26000;occ; 104; 0;40797  
 19; 1386.1; 19-DEC-2009 04:18:53; Dark ; 52.0; 179; 240mi2CMa ; 3.03; 24000;occ; 104; 0;40797  
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 23; 2061.1; 19-DEC-2009 04:30:08; Dark ; 64.0; 14; 58Alp Ori ; 0.87; 3000;occ; 128; 0;40797  
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 29; 3703.6; 19-DEC-2009 04:57:30; Bright; 21.5; 60; 7Bet UMi ; 2.08; 3950;occ; 43; 0;40797

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 22; 1881.5; 19-DEC-2009 06:07:44; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;40798  
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5; 78.6; 19-DEC-2009 22:23:41; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;40808
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 23; 6591.3; 22-DEC-2009 17:35:35; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;40847  
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 23; 6140.3; 22-DEC-2009 19:08:40; Dark ; 43.0; 26; Gam Cru ; 1.62; 2900;occ; 86; 0;40848  
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 13; 1402.0; 23-DEC-2009 02:12:41; Dark ; 49.0; 179; 240mi2CMa ; 3.03; 24000;occ; 98; 0;40853  
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3; 1124.8; 23-DEC-2009 20:34:39; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;40864
4; 1305.5; 23-DEC-2009 20:37:40; Dark ; 49.5; 23; 21Eps CMa ; 1.50; 26000;occ; 99; 0;40864
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7; 1757.0; 23-DEC-2009 20:45:12; Dark ; 47.0; 7; 19Bet Ori ; 0.10; 14000;occ; 94; 0;40864
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9; 2046.2; 23-DEC-2009 20:50:01; Dark ; 50.5; 14; 58Alp Ori ; 0.87; 3000;occ; 101; 0;40864
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13; 2709.7; 23-DEC-2009 21:01:04; Bright; 44.5; 6; 13Alp Aur ; 0.08; 3400;occ; 89; 0;40864
14; 3700.3; 23-DEC-2009 21:17:35; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;40864
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5; 371.8; 23-DEC-2009 22:02:42; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;40865
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7; 670.7; 23-DEC-2009 22:07:41; Dark ; 56.0; 41; Eps Car ; 1.86; 4100;occ; 112; 0;40865
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13; 1567.7; 23-DEC-2009 22:22:38; Dark ; 54.0; 1; 9Alp CMa ; -1.44; 11000;occ; 108; 0;40865
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16; 2046.0; 23-DEC-2009 22:30:37; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;40865
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22; 3952.8; 23-DEC-2009 23:02:23; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;40865
23; 4127.6; 23-DEC-2009 23:05:18; Bright; 45.0; 39; 85Eta UMa ; 1.85; 24000;occ; 90; 0;40865
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4; 106.1; 23-DEC-2009 23:38:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40866
5; 372.5; 23-DEC-2009 23:43:19; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;40866
6; 565.6; 23-DEC-2009 23:46:32; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40866
7; 671.1; 23-DEC-2009 23:48:18; Dark ; 45.5; 41; Eps Car ; 1.86; 4100;occ; 91; 0;40866
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9; 983.1; 23-DEC-2009 23:53:29; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;40866
10; 1125.8; 23-DEC-2009 23:55:52; Dark ; 51.0; 117; Pi Pup ; 2.71; 3800;occ; 102; 0;40866
11; 1306.1; 23-DEC-2009 23:58:53; Dark ; 48.0; 23; 21Eps CMa ; 1.50; 26000;occ; 96; 0;40866
12; 1405.5; 24-DEC-2009 00:00:32; Dark ; 49.5; 179; 240mi2CMa ; 3.03; 24000;occ; 99; 0;40866
13; 1567.9; 24-DEC-2009 00:03:14; Dark ; 54.5; 1; 9Alp CMa ; -1.44; 11000;occ; 109; 0;40866
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19; 2605.5; 24-DEC-2009 00:20:32; Bright; 41.0; 107; 37The Aur ; 2.65; 11000;occ; 82; 0;40866
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22; 3952.7; 24-DEC-2009 00:42:59; Bright; 48.0; 32; 77Eps UMa ; 1.76; 11000;occ; 96; 0;40866
23; 4127.5; 24-DEC-2009 00:45:54; Bright; 61.0; 39; 85Eta UMa ; 1.85; 24000;occ; 122; 0;40866
24; 4347.4; 24-DEC-2009 00:49:34; Bright; 58.0; 180; 27Gam Boo ; 3.04; 8000;occ; 116; 0;40866
25; 4551.4; 24-DEC-2009 00:52:58; Bright; 57.0; 83; ; 2.38; 11000;occ; 114; 0;40866
26; 4771.3; 24-DEC-2009 00:56:38; Bright; 66.5; 111; 8Eta Boo ; 2.68; 6000;occ; 133; 0;40866

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6; -1269.1; 23-DEC-2009 06:29:58; Bright; 46.5; 111; 8Eta Boo ; 2.68; 6000;occ; 93; 0;40855  
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14; 666.3; 23-DEC-2009 07:02:13; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;40856  
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17; 1121.2; 23-DEC-2009 07:09:48; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;40856  
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19; 1402.7; 23-DEC-2009 07:14:30; Dark ; 48.5; 179; 240mi2CMa ; 3.03; 24000;occ; 97; 0;40856  
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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  
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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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26; 7438.9; 23-DEC-2009 08:55:06; Dark ; 48.5; 179; 240mi2CMa ; 3.03; 24000;occ; 97; 0;40856  
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26; 7439.0; 23-DEC-2009 10:35:42; Dark ; 48.5; 179; 240mi2CMA ; 3.03; 24000;occ; 97; 0;40857
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10; 3955.1; 23-DEC-2009 11:18:14; Bright; 47.5; 32; 77Eps UMa ; 1.76; 11000;occ; 95; 0;40858
11; 4128.3; 23-DEC-2009 11:21:07; Bright; 61.0; 39; 85Eta UMa ; 1.85; 24000;occ; 122; 0;40858
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 24; 6725.9; 26-DEC-2009 15:31:22; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;40903  
 25; 6910.3; 26-DEC-2009 15:34:26; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;40903  
 26; 7042.0; 26-DEC-2009 15:36:38; Dark ; 48.5; 70; Zet Pup ; 2.25; 39000;occ; 97; 0;40903  
 27; 7178.2; 26-DEC-2009 15:38:54; Dark ; 51.0; 117; Pi Pup ; 2.71; 3800;occ; 102; 0;40903  
 28; 7354.5; 26-DEC-2009 15:41:50; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;40903  
 29; 7451.1; 26-DEC-2009 15:43:27; Dark ; 1.0; 179; 240mi2CMA ; 3.03; 24000;occ; 2; 0;40903

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 3; 1724.7; 26-DEC-2009 15:48:37; Dark ; 44.5; 56; 53Kap Ori ; 2.07; 30000;occ; 89; 0;40904  
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 7; 2406.7; 26-DEC-2009 15:59:58; Bright; 39.5; 28; 12Bet Tau ; 1.65; 15200;occ; 79; 0;40904  
 8; 2590.9; 26-DEC-2009 16:03:03; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;40904  
 9; 2702.3; 26-DEC-2009 16:04:54; Bright; 43.5; 6; 13Alp Aur ; 0.08; 3400;occ; 87; 0;40904  
 10; 3645.0; 26-DEC-2009 16:20:37; Bright; 48.0; 36; 50Alp UMa ; 1.80; 6300;occ; 96; 0;40904  
 11; 3940.3; 26-DEC-2009 16:25:32; Bright; 50.5; 32; 77Eps UMa ; 1.76; 11000;occ; 101; 0;40904  
 12; 4122.5; 26-DEC-2009 16:28:34; Bright; 61.5; 39; 85Eta UMa ; 1.85; 24000;occ; 123; 0;40904  
 13; 4349.6; 26-DEC-2009 16:32:21; Bright; 59.0; 180; 27Gam Boo ; 3.04; 8000;occ; 118; 0;40904  
 14; 4559.2; 26-DEC-2009 16:35:51; Bright; 39.0; 83; ; 2.38; 11000;occ; 78; 0;40904  
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 18; 5715.9; 26-DEC-2009 16:55:08; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;40904  
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 21; 6176.6; 26-DEC-2009 17:02:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40904  
 22; 6444.1; 26-DEC-2009 17:07:16; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;40904  
 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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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
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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
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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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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
9;	-188.4;	27-DEC-2009	03:00:55;	Dark	;	43.5;	123;	Iot Cen	;	2.75;	10200;	occ;	87;	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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12; 416.2; 27-DEC-2009 08:12:48; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40914
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 13; 4118.0; 28-DEC-2009 13:44:40; Bright; 42.0; 39; 85Eta UMa ; 1.85; 24000;occ; 84; 0;40931  
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 27; 7057.7; 28-DEC-2009 14:33:40; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;40931  
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13; 1423.5; 29-DEC-2009 00:43:57; Dark ; 45.5; 179; 240mi2CMa ; 3.03; 24000;occ; 91; 0;40938
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 11; 3914.1; 31-DEC-2009 15:27:37; Bright; 50.0; 32; 77Eps UMA ; 1.76; 11000;occ; 100; 0;40975  
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 16; 5192.0; 31-DEC-2009 15:48:55; Bright; 55.0; 104; 27Bet Lib ; 2.61; 13100;occ; 110; 0;40975  
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