

# GOMOS Daily Report 09-JUL-2009

## Level 0 and Level 1 products

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

Item	Value
Time of report generation	12JUL2009 04:40:19
Data source version	GOMOS/5.00
Start time of products	09JUL2009 00:04:21
Stop time of products	09JUL2009 23:59:22
Store outputs in DB	Yes
Nb of level 1b prods	81
Nb of prods with errors	0

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

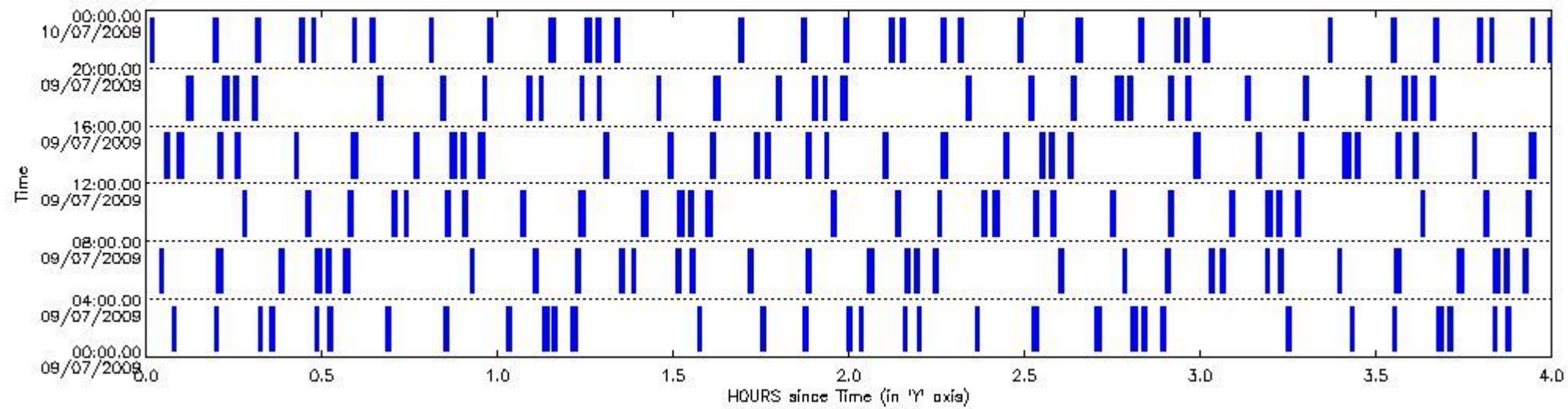
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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

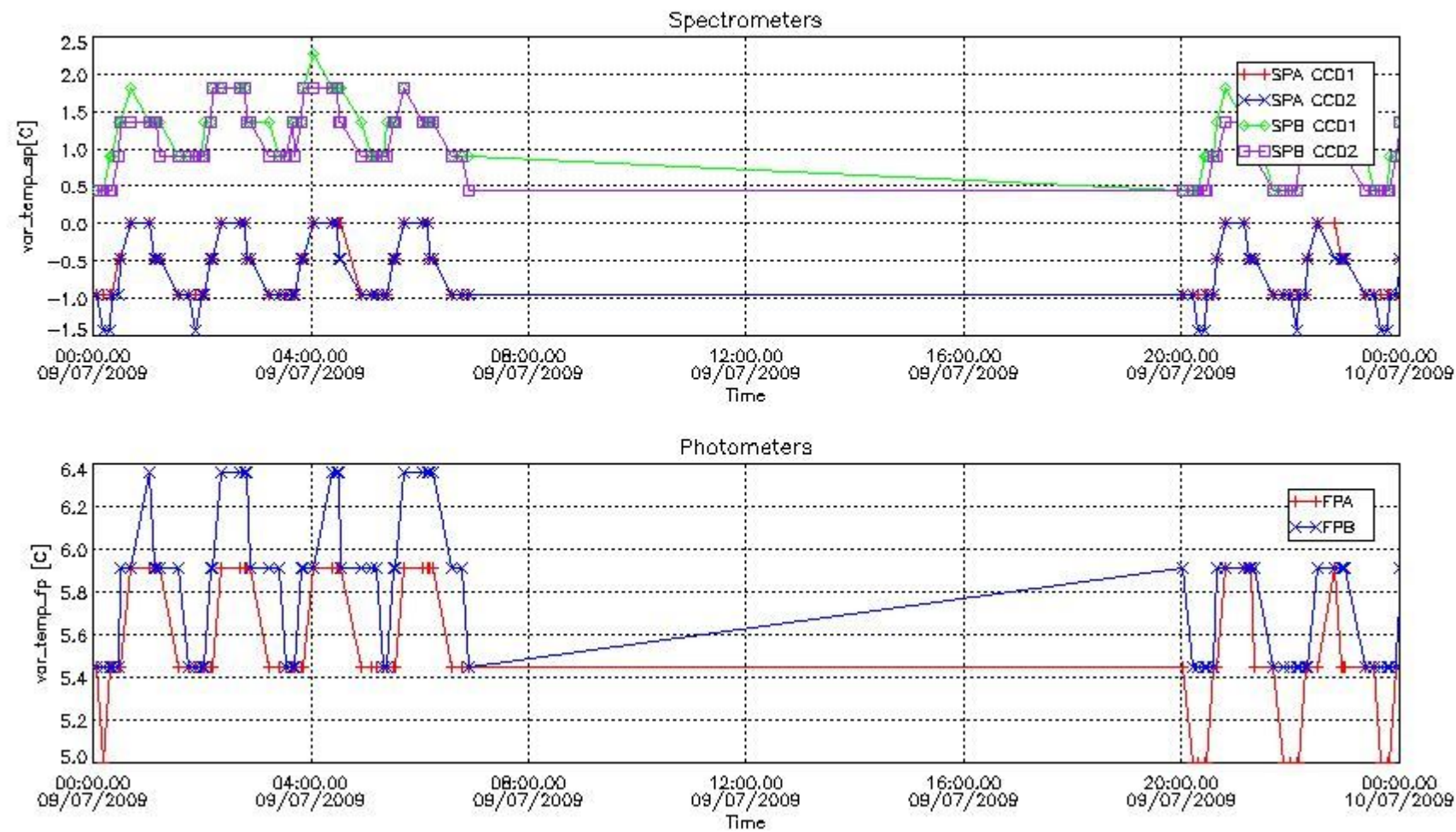
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090709_000421_000000462080_00331_38461_9667.N1	09-JUL-2009 00:04:21	Bright	45.500	144	18Del Cyg	2.8600	11000.	91	38461	No
2	GOM_TRA_1PNPDE20090709_001134_000000442080_00331_38461_9668.N1	09-JUL-2009 00:11:34	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	38461	No
3	GOM_TRA_1PNPDE20090709_001906_000000462080_00331_38461_9669.N1	09-JUL-2009 00:19:06	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	38461	No
4	GOM_TRA_1PNPDE20090709_002105_000000492080_00331_38461_9670.N1	09-JUL-2009 00:21:05	Bright	48.500	110	37Del Cas	2.6780	8900.0	97	38461	No
5	GOM_TRA_1PNPDE20090709_002843_000000352080_00331_38461_9671.N1	09-JUL-2009 00:28:43	Bright	34.500	79	26Bet Per	2.3100	13100.	69	38461	No
6	GOM_TRA_1PNPDE20090709_003058_000000432080_00331_38461_9672.N1	09-JUL-2009 00:30:58	Twilight	42.500	173	4Bet Tri	3.0040	8900.0	85	38461	No
7	GOM_TRA_1PNPDE20090709_004100_000000412080_00331_38461_9673.N1	09-JUL-2009 00:41:00	Dark	41.000	94	92Alp Cet	2.5260	3100.0	82	38461	No
8	GOM_TRA_1PNPDE20090709_010123_000000532080_00332_38462_9744.N1	09-JUL-2009 01:01:23	Dark	52.500	84	Alp Phe	2.3970	4500.0	105	38462	No
9	GOM_TRA_1PNPDE20090709_010736_000000662080_00332_38462_9745.N1	09-JUL-2009 01:07:36	Straylight	66.000	63	Bet Gru	2.1500	2800.0	132	38462	No
10	GOM_TRA_1PNPDE20090709_010923_000000502080_00332_38462_9746.N1	09-JUL-2009 01:09:23	Straylight	49.500	31	Alp Gru	1.7340	15200.	99	38462	No
11	GOM_TRA_1PNPDE20090709_011231_000000562080_00332_38462_9747.N1	09-JUL-2009 01:12:31	Straylight	55.500	172	Gam Gru	3.0030	13100.	111	38462	No
12	GOM_TRA_1PNPDE20090709_013405_000000452080_00332_38462_9748.N1	09-JUL-2009 01:34:05	Bright	45.000	168	17Zet Aql	2.9860	11000.	90	38462	No

13	GOM_TRA_1PNPDE20090709_014456_000000422080_00332_38462_9749.N1	09-JUL-2009 01:44:56	Bright	41.500	144	18Del Cyg	2.8600	11000.	83	38462	No
14	GOM_TRA_1PNPDE20090709_015209_000000422080_00332_38462_9750.N1	09-JUL-2009 01:52:09	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	38462	No
15	GOM_TRA_1PNPDE20090709_015941_000000462080_00332_38462_9751.N1	09-JUL-2009 01:59:41	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	38462	No
16	GOM_TRA_1PNPDE20090709_020140_000000402080_00332_38462_9752.N1	09-JUL-2009 02:01:40	Bright	39.500	110	37Del Cas	2.6780	8900.0	79	38462	No
17	GOM_TRA_1PNPDE20090709_020919_000000352080_00332_38462_9753.N1	09-JUL-2009 02:09:19	Bright	35.000	79	26Bet Per	2.3100	13100.	70	38462	No
18	GOM_TRA_1PNPDE20090709_021134_000000452080_00332_38462_9754.N1	09-JUL-2009 02:11:34	Twilight	44.500	173	4Bet Tri	3.0040	8900.0	89	38462	No
19	GOM_TRA_1PNPDE20090709_022136_000000402080_00332_38462_9817.N1	09-JUL-2009 02:21:36	Dark	40.000	94	92Alp Cet	2.5260	3100.0	80	38462	No
20	GOM_TRA_1PNPDE20090709_024159_000000562080_00333_38463_9818.N1	09-JUL-2009 02:41:59	Dark	55.500	84	Alp Phe	2.3970	4500.0	111	38463	No
21	GOM_TRA_1PNPDE20090709_024813_000000632080_00333_38463_9819.N1	09-JUL-2009 02:48:13	Straylight	63.000	63	Bet Gru	2.1500	2800.0	126	38463	No
22	GOM_TRA_1PNPDE20090709_025000_000000512080_00333_38463_9820.N1	09-JUL-2009 02:50:00	Straylight	50.500	31	Alp Gru	1.7340	15200.	101	38463	No
23	GOM_TRA_1PNPDE20090709_025307_000000572080_00333_38463_9821.N1	09-JUL-2009 02:53:07	Straylight	57.000	172	Gam Gru	3.0030	13100.	114	38463	No
24	GOM_TRA_1PNPDE20090709_031440_000000452080_00333_38463_9822.N1	09-JUL-2009 03:14:40	Bright	45.000	168	17Zet Aql	2.9860	11000.	90	38463	No
25	GOM_TRA_1PNPDE20090709_032531_000000452080_00333_38463_9823.N1	09-JUL-2009 03:25:31	Bright	44.500	144	18Del Cyg	2.8600	11000.	89	38463	No
26	GOM_TRA_1PNPDE20090709_033245_000000462080_00333_38463_9824.N1	09-JUL-2009 03:32:45	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	38463	No
27	GOM_TRA_1PNPDE20090709_034016_000000702080_00333_38463_9918.N1	09-JUL-2009 03:40:16	Bright	69.500	74	11Bet Cas	2.2680	6600.0	139	38463	No
28	GOM_TRA_1PNPDE20090709_034216_000000402080_00333_38463_9919.N1	09-JUL-2009 03:42:16	Bright	39.500	110	37Del Cas	2.6780	8900.0	79	38463	No
29	GOM_TRA_1PNPDE20090709_034955_000000352080_00333_38463_9920.N1	09-JUL-2009 03:49:55	Bright	35.000	79	26Bet Per	2.3100	13100.	70	38463	No
30	GOM_TRA_1PNPDE20090709_035210_000000462080_00333_38463_9921.N1	09-JUL-2009 03:52:10	Twilight	45.500	173	4Bet Tri	3.0040	8900.0	91	38463	No
31	GOM_TRA_1PNPDE20090709_040213_000000422080_00333_38463_9922.N1	09-JUL-2009 04:02:13	Dark	41.500	94	92Alp Cet	2.5260	3100.0	83	38463	No
32	GOM_TRA_1PNPDE20090709_042237_000000502080_00334_38464_9923.N1	09-JUL-2009 04:22:37	Dark	49.500	84	Alp Phe	2.3970	4500.0	99	38464	No
33	GOM_TRA_1PNPDE20090709_042850_000000652080_00334_38464_9924.N1	09-JUL-2009 04:28:50	Straylight	65.000	63	Bet Gru	2.1500	2800.0	130	38464	No
34	GOM_TRA_1PNPDE20090709_043037_000000582080_00334_38464_9925.N1	09-JUL-2009 04:30:37	Straylight	57.500	31	Alp Gru	1.7340	15200.	115	38464	No
35	GOM_TRA_1PNPDE20090709_043344_000000542080_00334_38464_9926.N1	09-JUL-2009 04:33:44	Straylight	53.500	172	Gam Gru	3.0030	13100.	107	38464	No
36	GOM_TRA_1PNPDE20090709_045516_000000412080_00334_38464_9927.N1	09-JUL-2009 04:55:16	Bright	41.000	168	17Zet Aql	2.9860	11000.	82	38464	No
37	GOM_TRA_1PNPDE20090709_050606_000000452080_00334_38464_9928.N1	09-JUL-2009 05:06:06	Bright	44.500	144	18Del Cyg	2.8600	11000.	89	38464	No
38	GOM_TRA_1PNPDE20090709_051320_000000462080_00334_38464_9929.N1	09-JUL-2009 05:13:20	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	38464	No
39	GOM_TRA_1PNPDE20090709_052051_000000462080_00334_38464_0074.N1	09-JUL-2009 05:20:51	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	38464	No
40	GOM_TRA_1PNPDE20090709_052251_000000402080_00334_38464_0075.N1	09-JUL-2009 05:22:51	Bright	39.500	110	37Del Cas	2.6780	8900.0	79	38464	No
41	GOM_TRA_1PNPDE20090709_053031_000000362080_00334_38464_0076.N1	09-JUL-2009 05:30:31	Bright	35.500	79	26Bet Per	2.3100	13100.	71	38464	No
42	GOM_TRA_1PNPDE20090709_053246_000000462080_00334_38464_0077.N1	09-JUL-2009 05:32:46	Twilight	46.000	173	4Bet Tri	3.0040	8900.0	92	38464	No
43	GOM_TRA_1PNPDE20090709_054250_000000422080_00334_38464_0078.N1	09-JUL-2009 05:42:50	Dark	42.000	94	92Alp Cet	2.5260	3100.0	84	38464	No
44	GOM_TRA_1PNPDE20090709_060314_000000522080_00335_38465_0079.N1	09-JUL-2009 06:03:14	Dark	51.500	84	Alp Phe	2.3970	4500.0	103	38465	No
45	GOM_TRA_1PNPDE20090709_060927_000000522080_00335_38465_0080.N1	09-JUL-2009 06:09:27	Straylight	52.000	63	Bet Gru	2.1500	2800.0	104	38465	No
46	GOM_TRA_1PNPDE20090709_061113_000000502080_00335_38465_0081.N1	09-JUL-2009 06:11:13	Straylight	50.000	31	Alp Gru	1.7340	15200.	100	38465	No
47	GOM_TRA_1PNPDE20090709_061421_000000542080_00335_38465_0082.N1	09-JUL-2009 06:14:21	Straylight	53.500	172	Gam Gru	3.0030	13100.	107	38465	No
48	GOM_TRA_1PNPDE20090709_063552_000000452080_00335_38465_0083.N1	09-JUL-2009 06:35:52	Bright	45.000	168	17Zet Aql	2.9860	11000.	90	38465	No
49	GOM_TRA_1PNPDE20090709_064642_000000452080_00335_38465_0084.N1	09-JUL-2009 06:46:42	Bright	44.500	144	18Del Cyg	2.8600	11000.	89	38465	No
50	GOM_TRA_1PNPDE20090709_065356_000000462080_00335_38465_0085.N1	09-JUL-2009 06:53:56	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	38465	No
51	GOM_TRA_1PNPDE20090709_200036_000000422080_00343_38473_0488.N1	09-JUL-2009 20:00:36	Bright	41.500	168	17Zet Aql	2.9860	11000.	83	38473	No
52	GOM_TRA_1PNPDE20090709_201124_000000462080_00343_38473_0489.N1	09-JUL-2009 20:11:24	Bright	46.000	144	18Del Cyg	2.8600	11000.	92	38473	No
53	GOM_TRA_1PNPDE20090709_201838_000000452080_00343_38473_0490.N1	09-JUL-2009 20:18:38	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	38473	No
54	GOM_TRA_1PNPDE20090709_202609_000000452080_00343_38473_0491.N1	09-JUL-2009 20:26:09	Bright	45.000	74	11Bet Cas	2.2680	6600.0	90	38473	No
55	GOM_TRA_1PNPDE20090709_202811_000000402080_00343_38473_0492.N1	09-JUL-2009 20:28:11	Bright	40.000	110	37Del Cas	2.6780	8900.0	80	38473	No
56	GOM_TRA_1PNPDE20090709_203511_000000452080_00343_38473_0493.N1	09-JUL-2009 20:35:11	Bright	44.500	73	57Gam1And	2.2600	13100.	89	38473	No
57	GOM_TRA_1PNPDE20090709_203810_000000462080_00343_38473_0494.N1	09-JUL-2009 20:38:10	Twilight	45.500	173	4Bet Tri	3.0040	8900.0	91	38473	No
58	GOM_TRA_1PNPDE20090709_204818_000000412080_00343_38473_0655.N1	09-JUL-2009 20:48:18	Dark	41.000	94	92Alp Cet	2.5260	3100.0	82	38473	No
59	GOM_TRA_1PNPDE20090709_210847_000000542080_00344_38474_0656.N1	09-JUL-2009 21:08:47	Dark	54.000	84	Alp Phe	2.3970	4500.0	108	38474	No
60	GOM_TRA_1PNPDE20090709_211459_000000662080_00344_38474_0657.N1	09-JUL-2009 21:14:59	Straylight	65.500	63	Bet Gru	2.1500	2800.0	131	38474	No
61	GOM_TRA_1PNPDE20090709_211644_000000552080_00344_38474_0658.N1	09-JUL-2009 21:16:44	Straylight	54.500	31	Alp Gru	1.7340	15200.	109	38474	No
62	GOM_TRA_1PNPDE20090709_211953_000000552080_00344_38474_0659.N1	09-JUL-2009 21:19:53	Straylight	55.000	172	Gam Gru	3.0030	13100.	110	38474	No
63	GOM_TRA_1PNPDE20090709_214112_000000412080_00344_38474_0660.N1	09-JUL-2009 21:41:12	Bright	41.000	168	17Zet Aql	2.9860	11000.	82	38474	No
64	GOM_TRA_1PNPDE20090709_215159_000000462080_00344_38474_0661.N1	09-JUL-2009 21:51:59	Bright	45.500	144	18Del Cyg	2.8600	11000.	91	38474	No
65	GOM_TRA_1PNPDE20090709_215913_000000452080_00344_38474_0662.N1	09-JUL-2009 21:59:13	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	38474	No
66	GOM_TRA_1PNPDE20090709_220645_000000502080_00344_38474_0663.N1	09-JUL-2009 22:06:45	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38474	No
67	GOM_TRA_1PNPDE20090709_220847_000000402080_00344_38474_0664.N1	09-JUL-2009 22:08:47	Bright	40.000	110	37Del Cas	2.6780	8900.0	80	38474	No
68	GOM_TRA_1PNPDE20090709_221547_000000442080_00344_38474_0665.N1	09-JUL-2009 22:15:47	Bright	44.000	73	57Gam1And	2.2600	13100.	88	38474	No
69	GOM_TRA_1PNPDE20090709_221846_000000462080_00344_38474_0666.N1	09-JUL-2009 22:18:46	Twilight	45.500	173	4Bet Tri	3.0040	8900.0	91	38474	No
70	GOM_TRA_1PNPDE20090709_222855_000000422080_00344_38474_0667.N1	09-JUL-2009 22:28:55	Dark	41.500	94	92Alp Cet	2.5260	3100.0	83	38474	No
71	GOM_TRA_1PNPDE20090709_224924_000000552080_00345_38475_0824.N1	09-JUL-2009 22:49:24	Dark	54.500	84	Alp Phe	2.3970	4500.0	109	38475	No



72	GOM_TRA_1PNPDE20090709_225535_000000542080_00345_38475_0825.N1	09-JUL-2009 22:55:35	Straylight	54.000	63	Bet Gru	2.1500	2800.0	108	38475	No
73	GOM_TRA_1PNPDE20090709_225720_000000472080_00345_38475_0826.N1	09-JUL-2009 22:57:20	Straylight	47.000	31	Alp Gru	1.7340	15200.	94	38475	No
74	GOM_TRA_1PNPDE20090709_230029_000000552080_00345_38475_0827.N1	09-JUL-2009 23:00:29	Straylight	54.500	172	Gam Gru	3.0030	13100.	109	38475	No
75	GOM_TRA_1PNPDE20090709_232147_000000422080_00345_38475_0828.N1	09-JUL-2009 23:21:47	Bright	42.000	168	17Zet Aql	2.9860	11000.	84	38475	No
76	GOM_TRA_1PNPDE20090709_233234_000000462080_00345_38475_0829.N1	09-JUL-2009 23:32:34	Bright	46.000	144	18Del Cyg	2.8600	11000.	92	38475	No
77	GOM_TRA_1PNPDE20090709_233949_000000462080_00345_38475_0830.N1	09-JUL-2009 23:39:49	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	38475	No
78	GOM_TRA_1PNPDE20090709_234720_000000462080_00345_38475_0831.N1	09-JUL-2009 23:47:20	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	38475	No
79	GOM_TRA_1PNPDE20090709_234922_000000412080_00345_38475_0832.N1	09-JUL-2009 23:49:22	Bright	40.500	110	37Del Cas	2.6780	8900.0	81	38475	No
80	GOM_TRA_1PNPDE20090709_235622_000000442080_00345_38475_0833.N1	09-JUL-2009 23:56:22	Bright	43.500	73	57Gam1And	2.2600	13100.	87	38475	No
81	GOM_TRA_1PNPDE20090709_235922_000000452080_00345_38475_0834.N1	09-JUL-2009 23:59:22	Twilight_stray	45.000	173	4Bet Tri	3.0040	8900.0	90	38475	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).

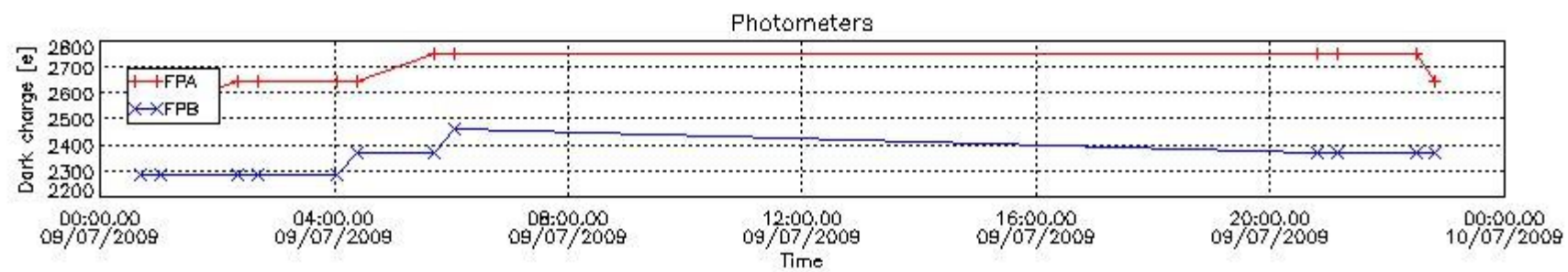
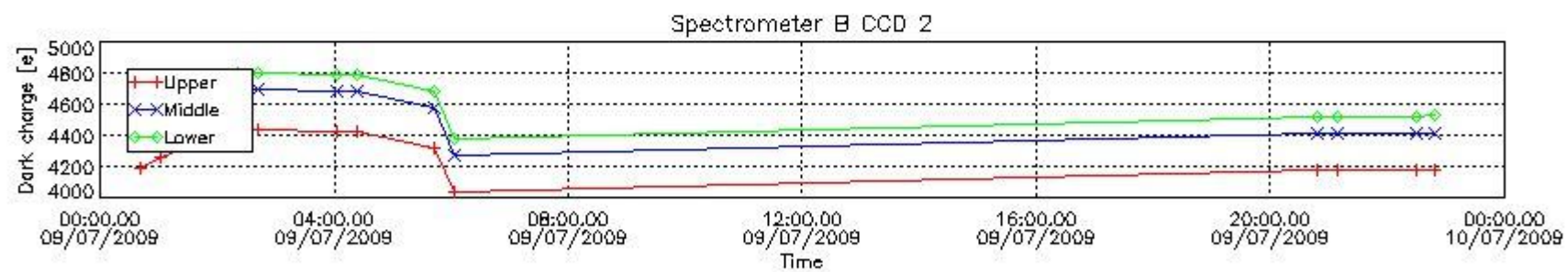
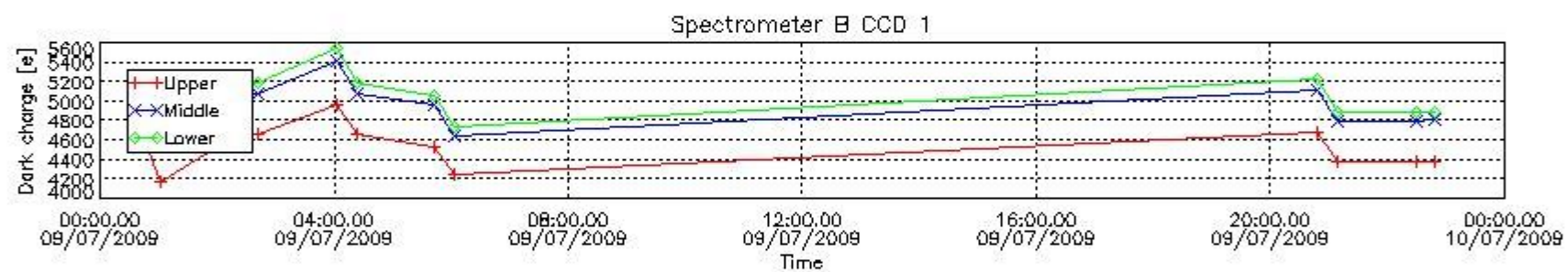
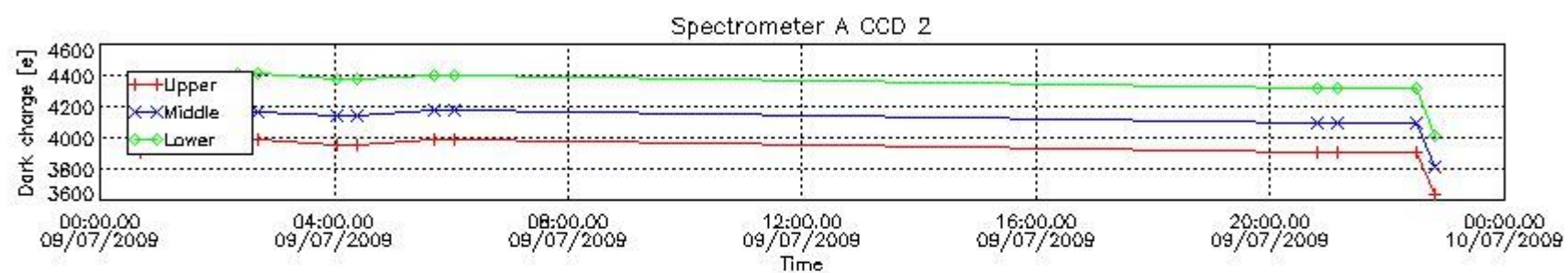
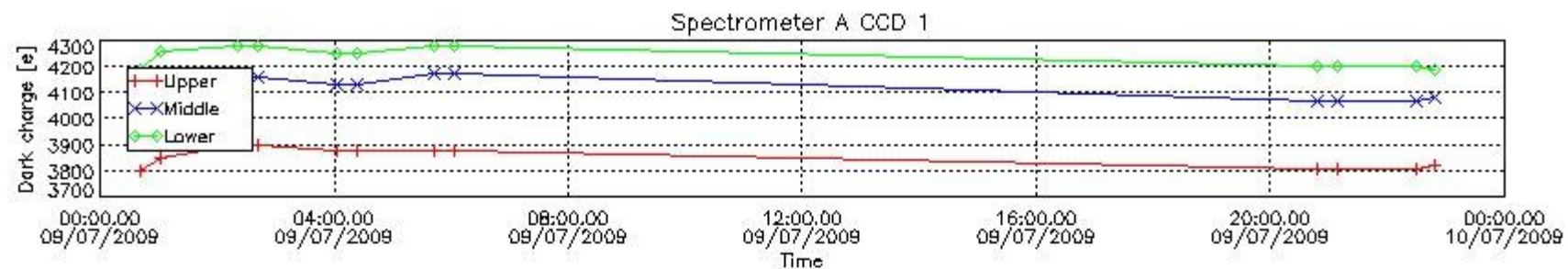
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
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GOM_TRA_1PNPDE20090709_200036_000000422080_00343_38473_0488.N1	DC map used
GOM_TRA_1PNPDE20090709_201124_000000462080_00343_38473_0489.N1	DC map used
GOM_TRA_1PNPDE20090709_201838_000000452080_00343_38473_0490.N1	DC map used
GOM_TRA_1PNPDE20090709_202609_000000452080_00343_38473_0491.N1	DC map used
GOM_TRA_1PNPDE20090709_202811_000000402080_00343_38473_0492.N1	DC map used
GOM_TRA_1PNPDE20090709_203511_000000452080_00343_38473_0493.N1	DC map used
GOM_TRA_1PNPDE20090709_203810_000000462080_00343_38473_0494.N1	DC map used

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



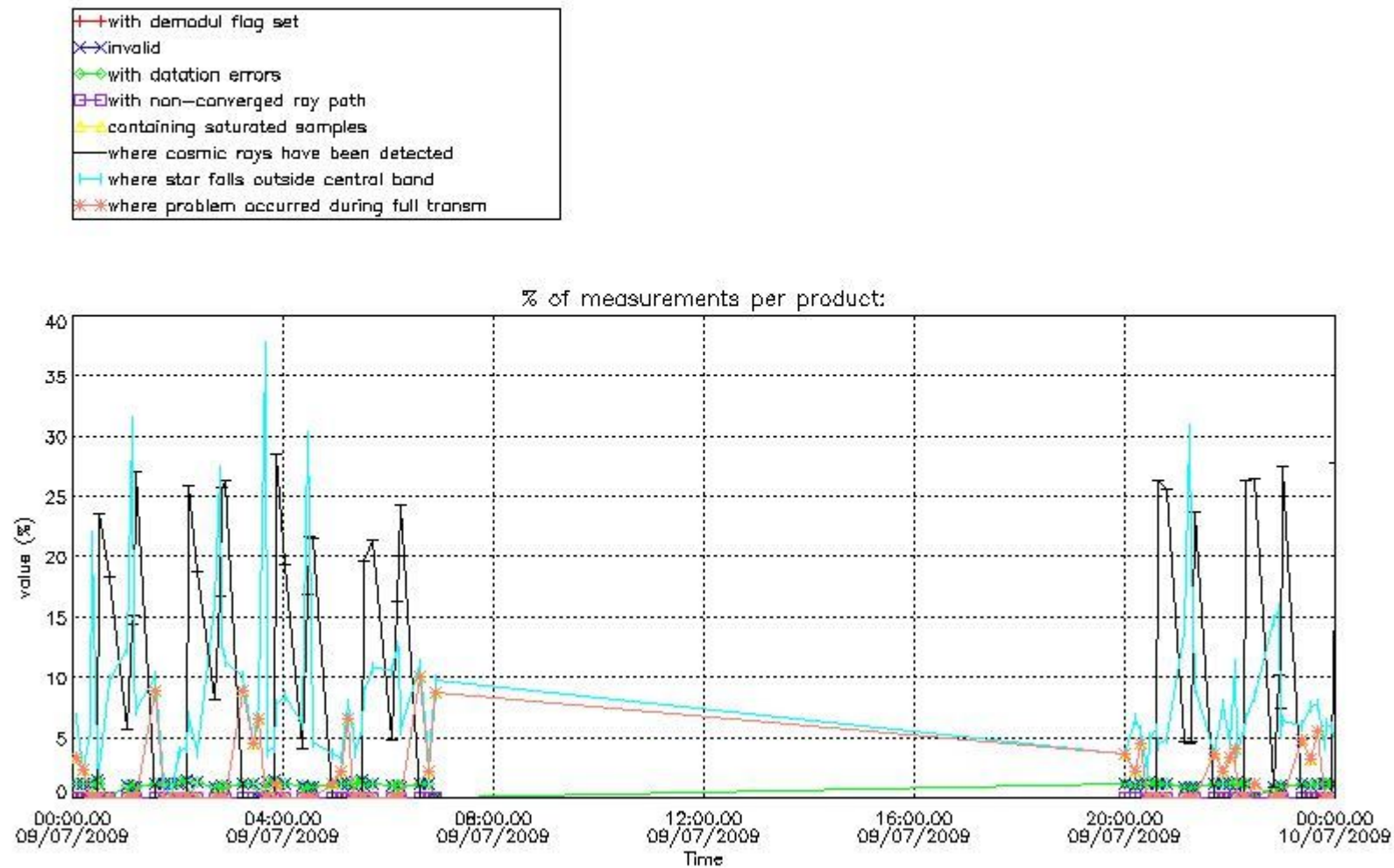
## 5. Demodulation flag and quality information monitoring

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

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

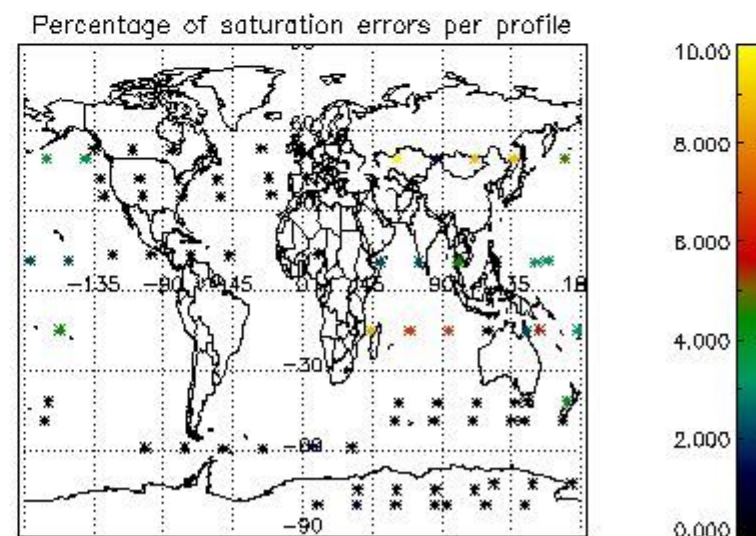
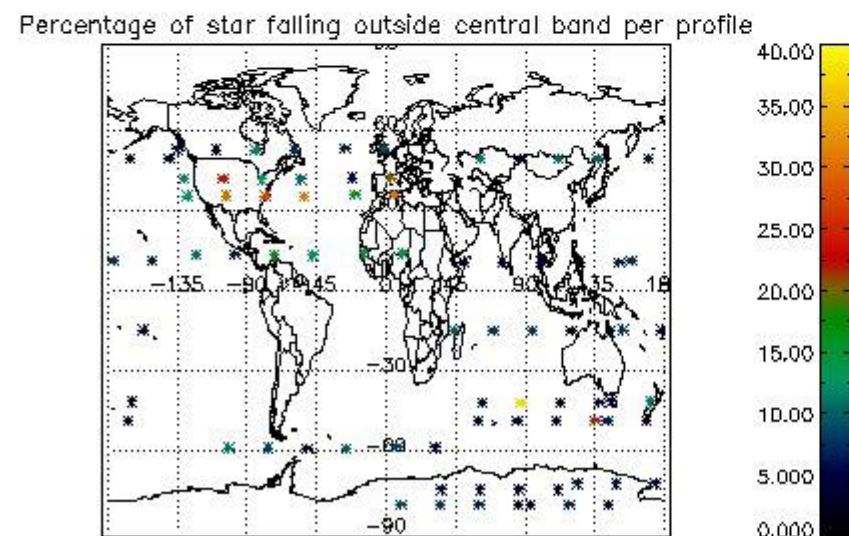
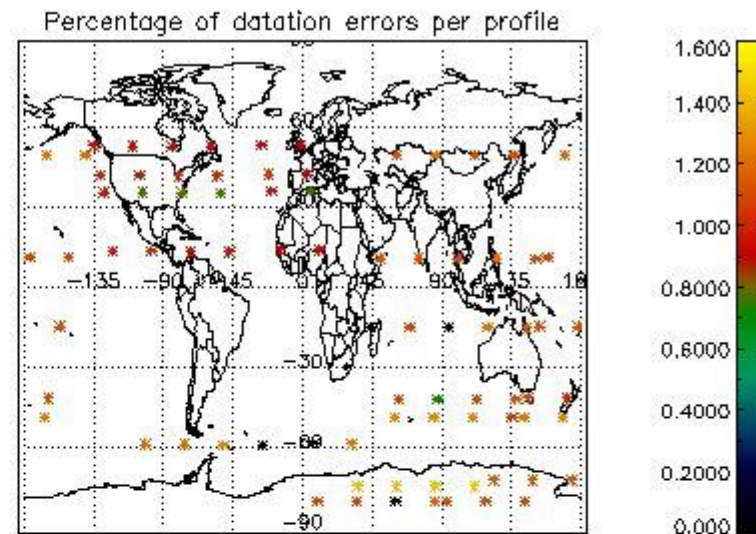
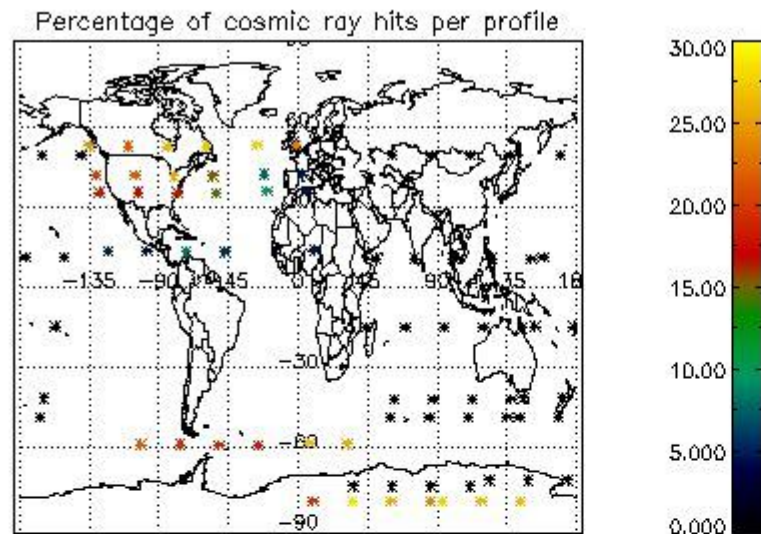
At least one measurement with demodulation flag set:	30.8642 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





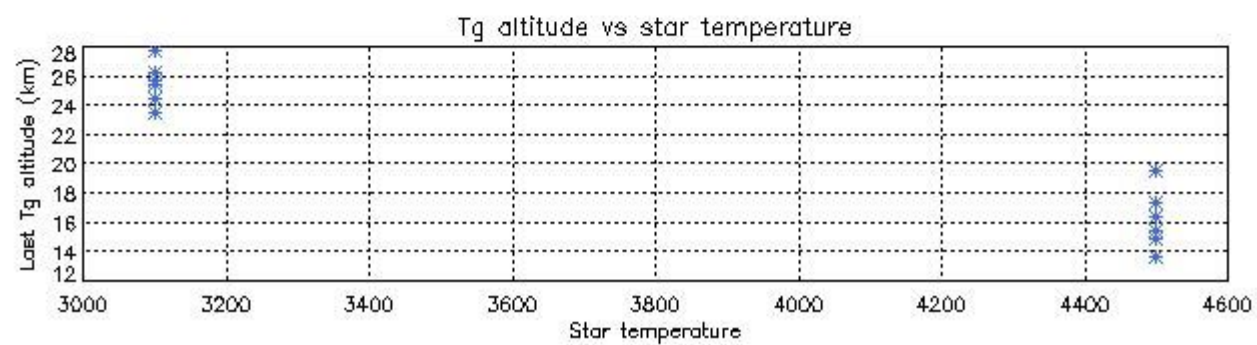
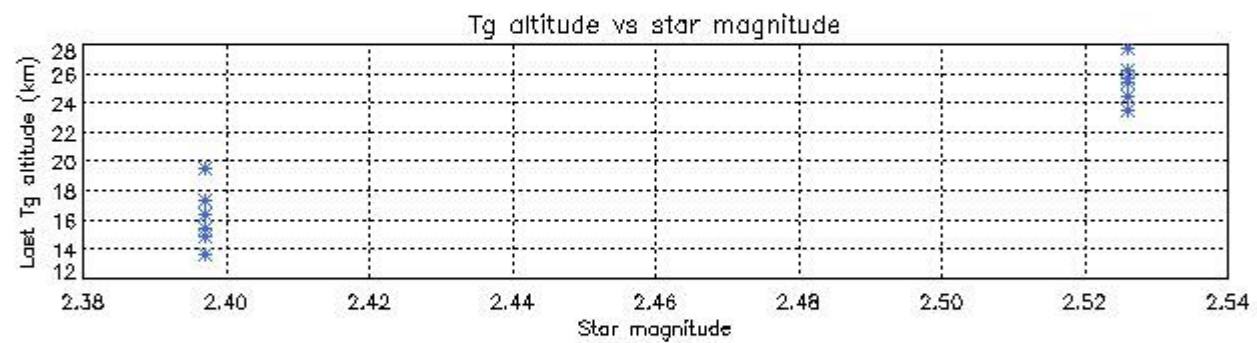
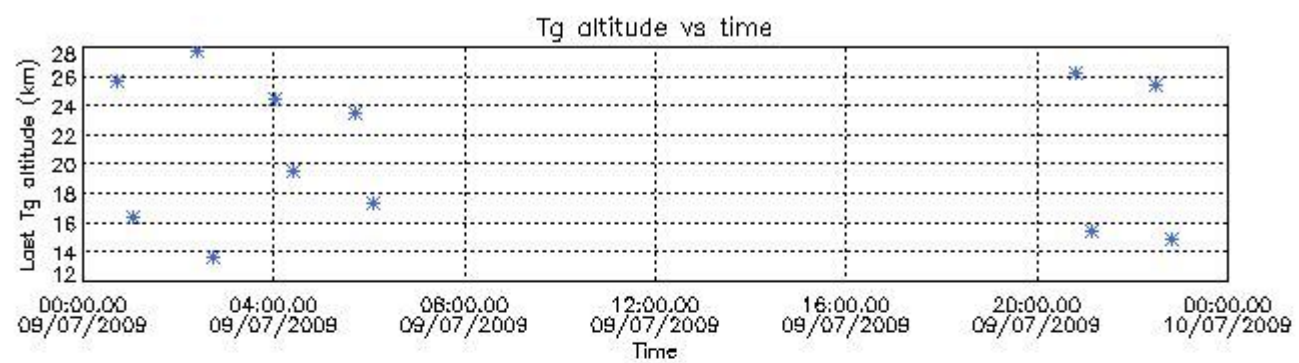
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	20.828	24.222	NaN
St. deviation:	5.1551	6.0882	NaN
Maximum:	27.665	35.645	NaN
Minimum:	13.579	4.3732	NaN
Number of data:	12.000	44.000	NaN

### 6.2 Plot for DARK limb products

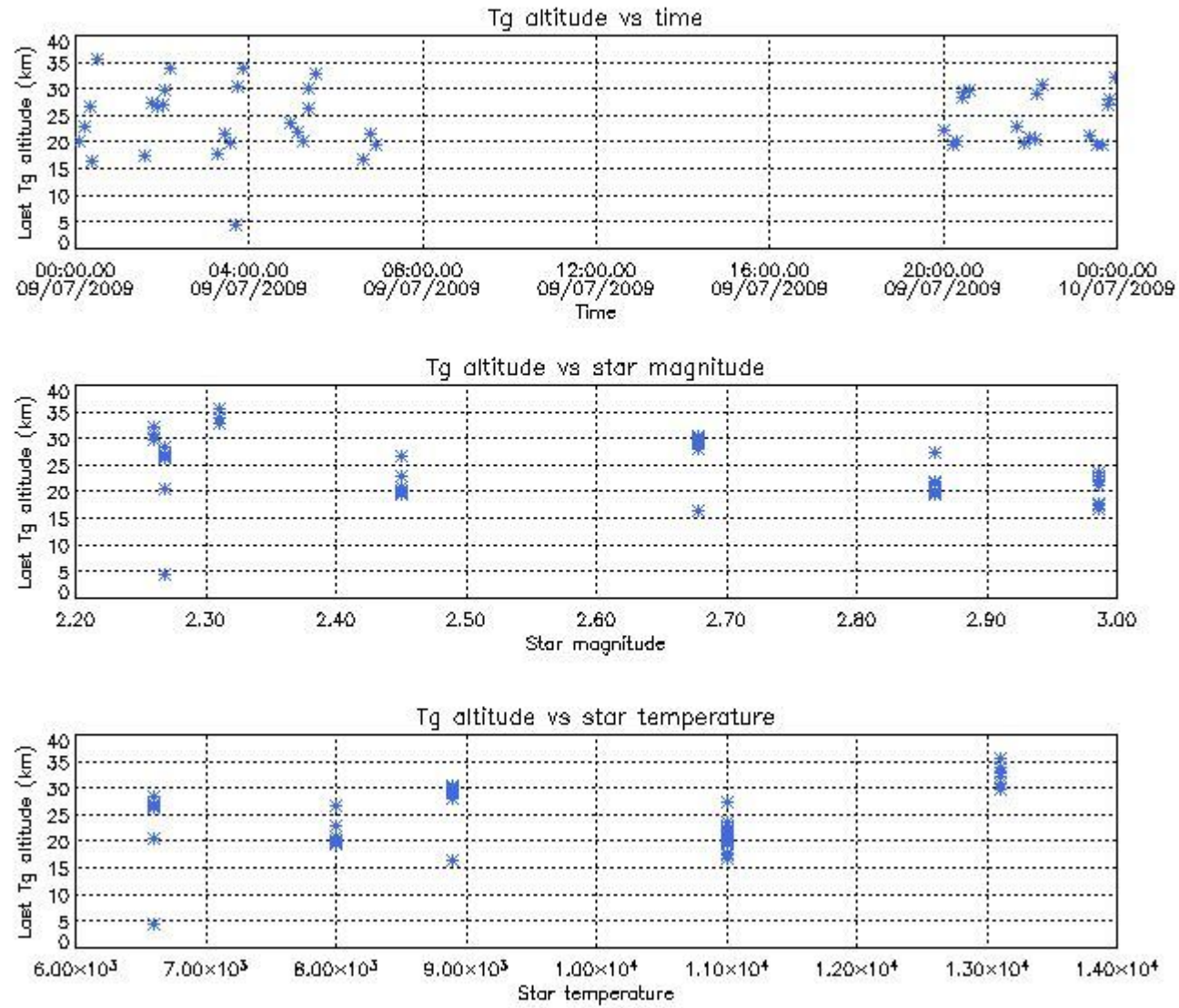
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

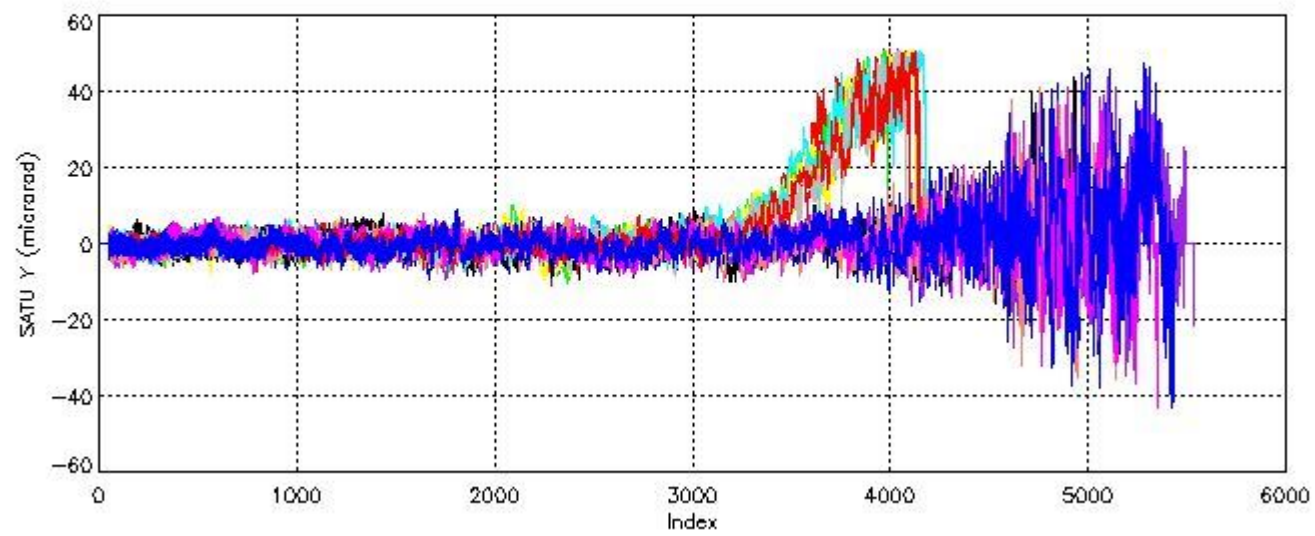
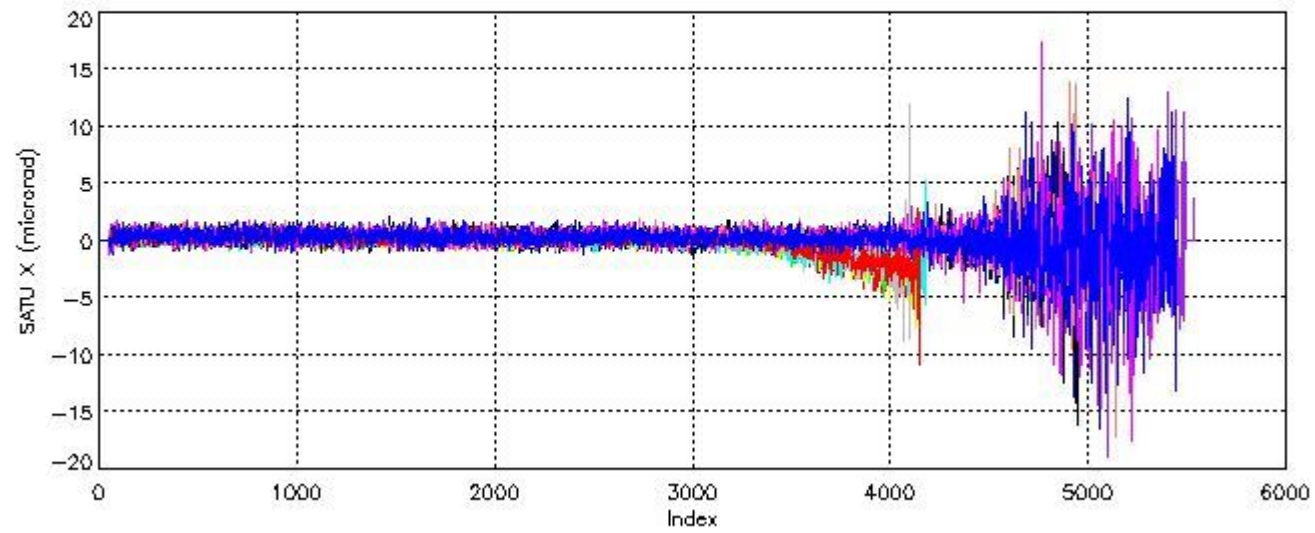


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.26841	-0.13833	0.25942	-0.16083
St. deviation:	0.35547	2.0563	1.1788	4.0828
Maximum:	1.8000	6.9000	7.4000	14.000
Minimum:	-1.2000	-8.1000	-6.3000	-14.400

Number of data:	13650.	13650.	46350.	46350.
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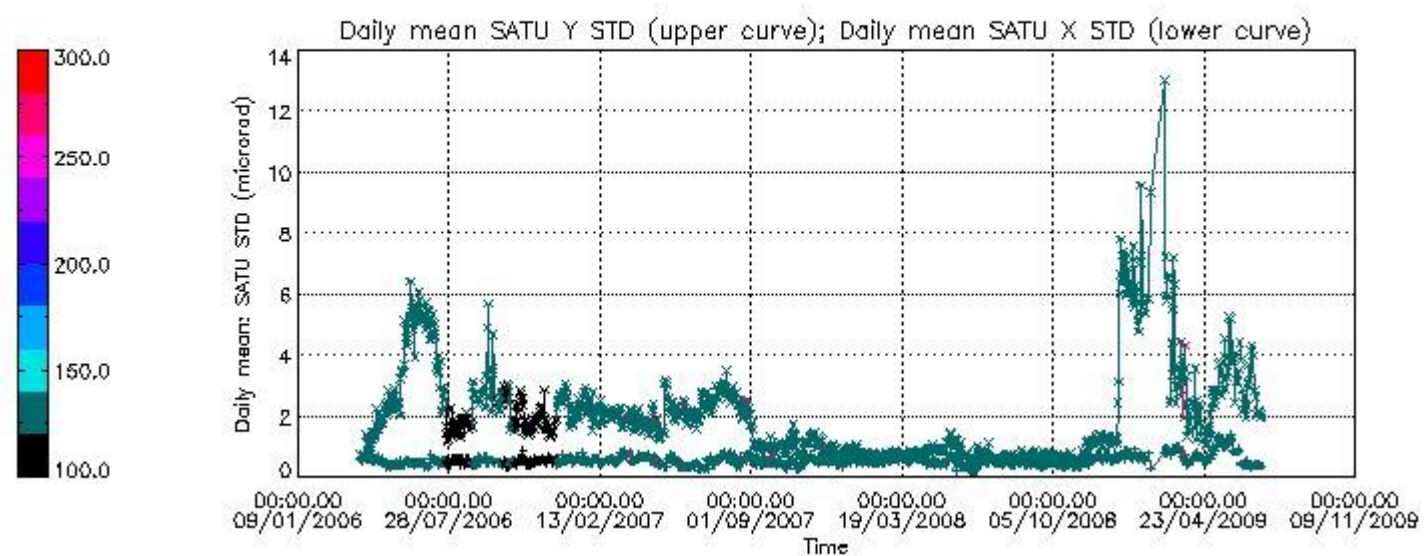
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

Lower curve: STD of SATU X axis

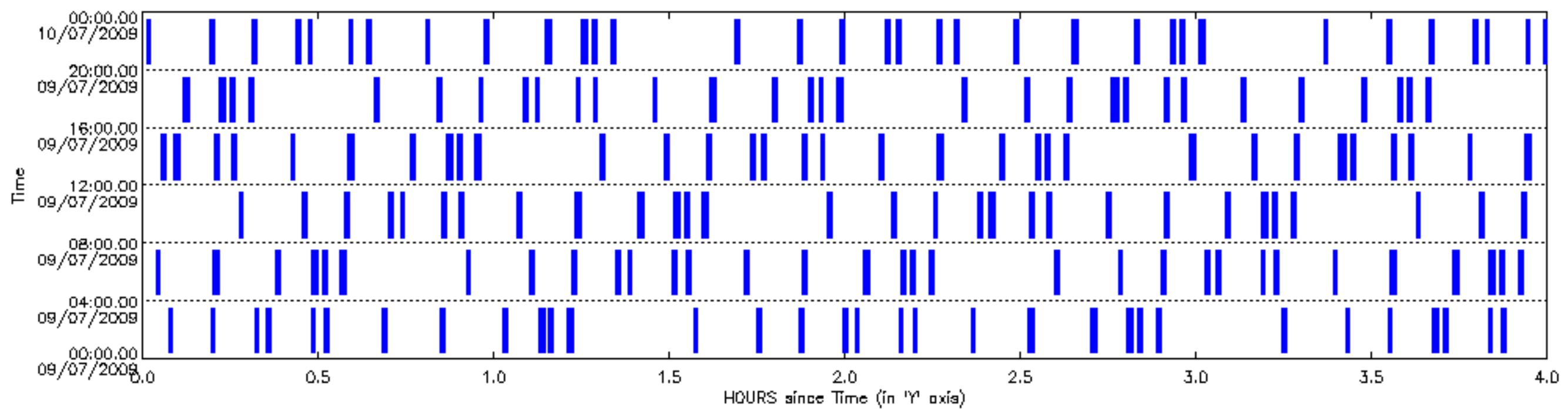


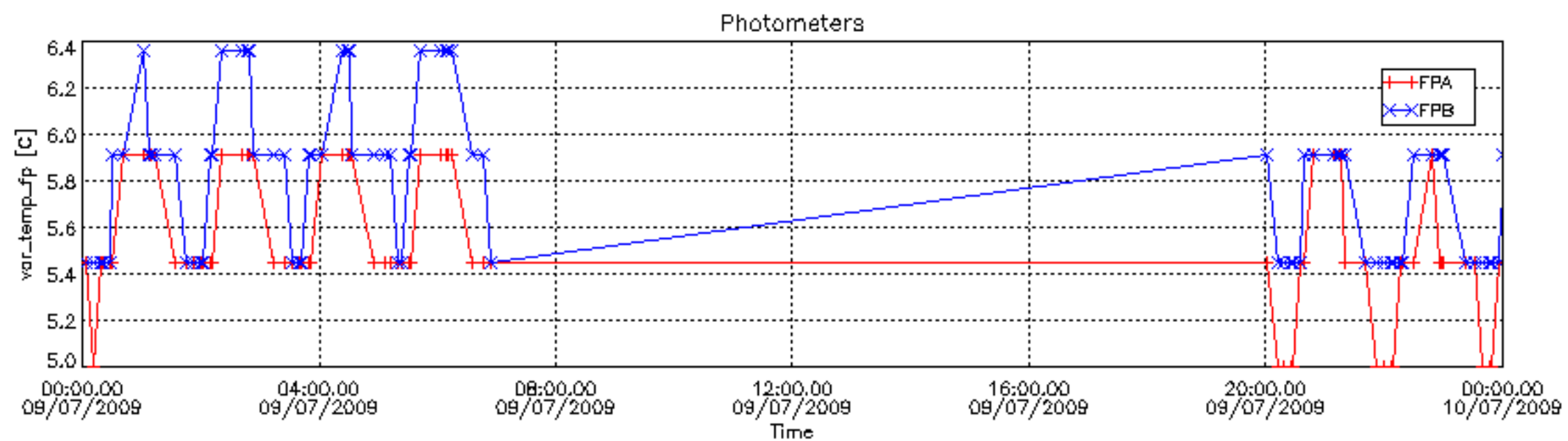
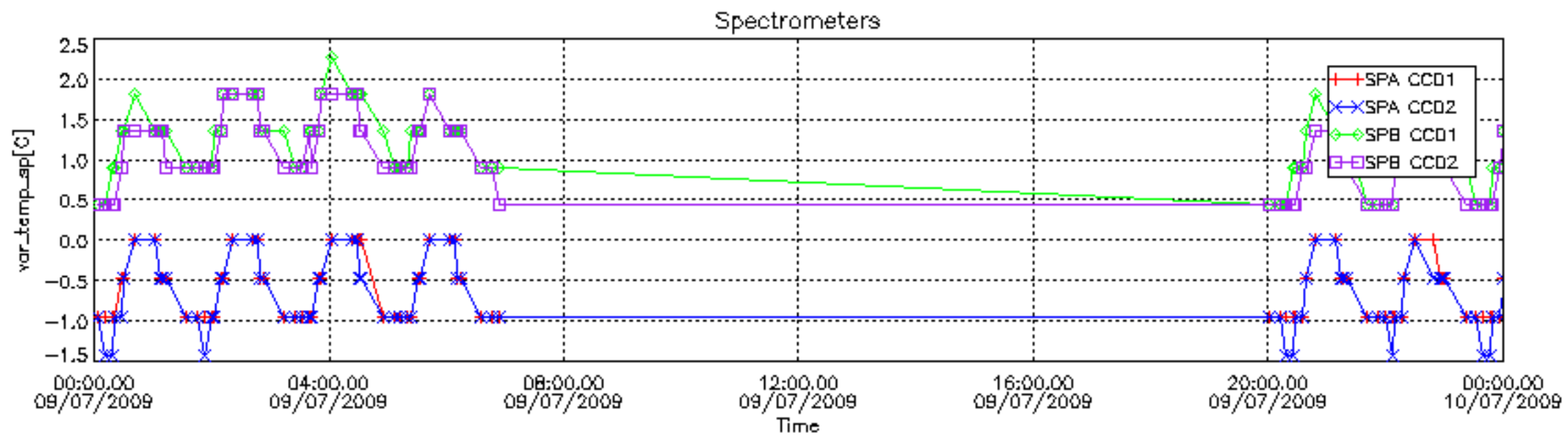
### 8. Auxiliary Data Files used for the production reported in section 2.4

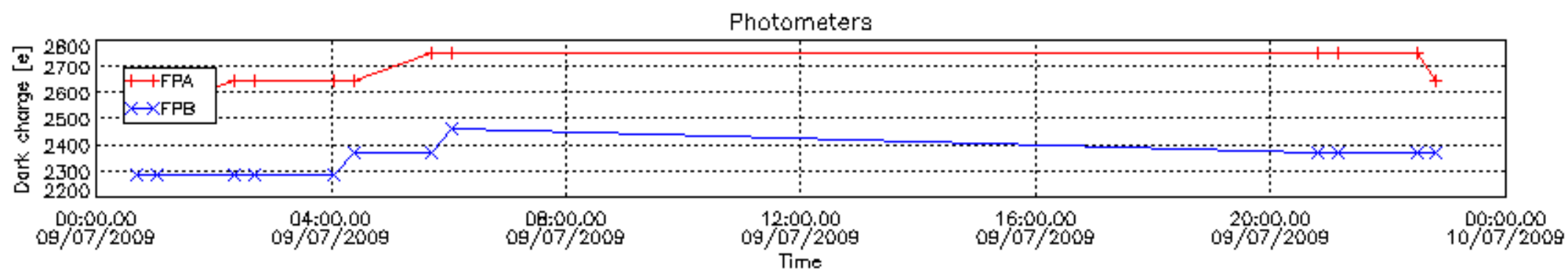
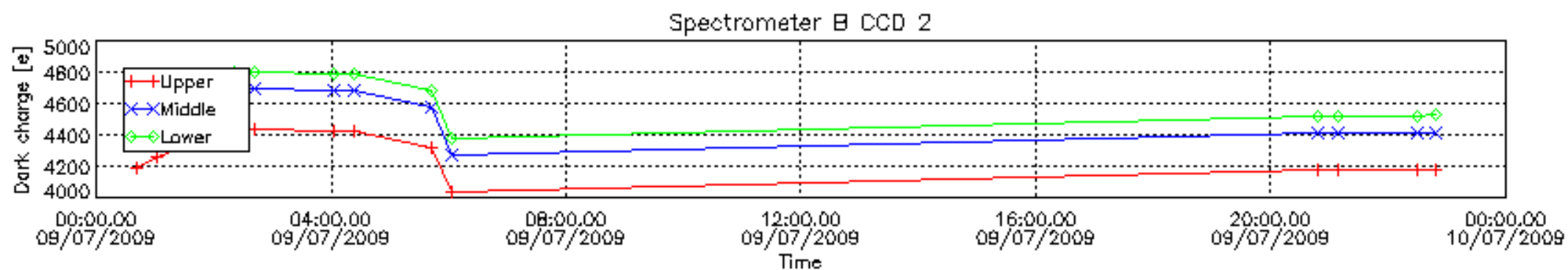
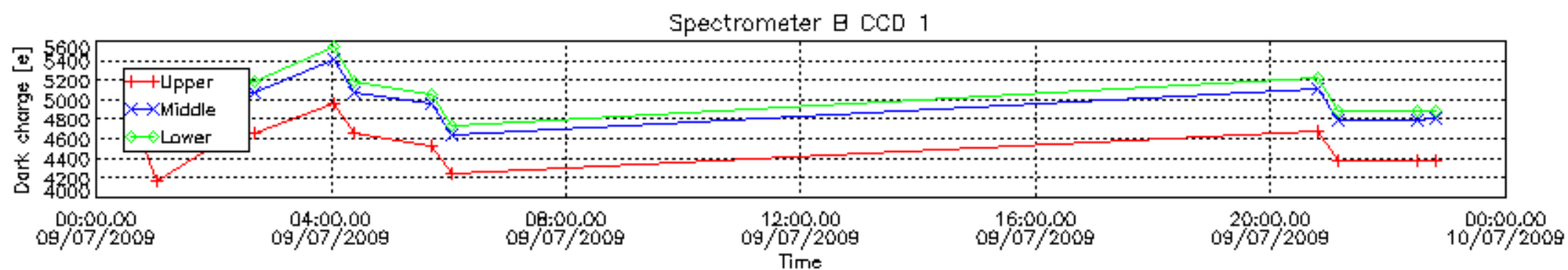
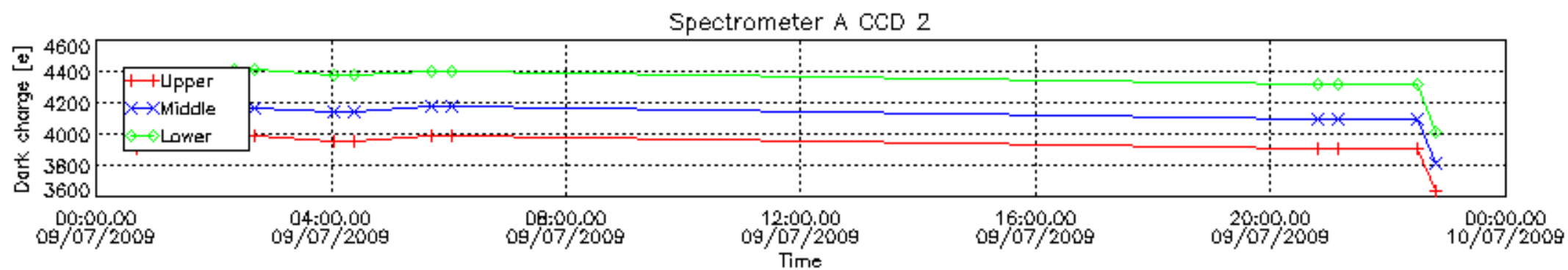
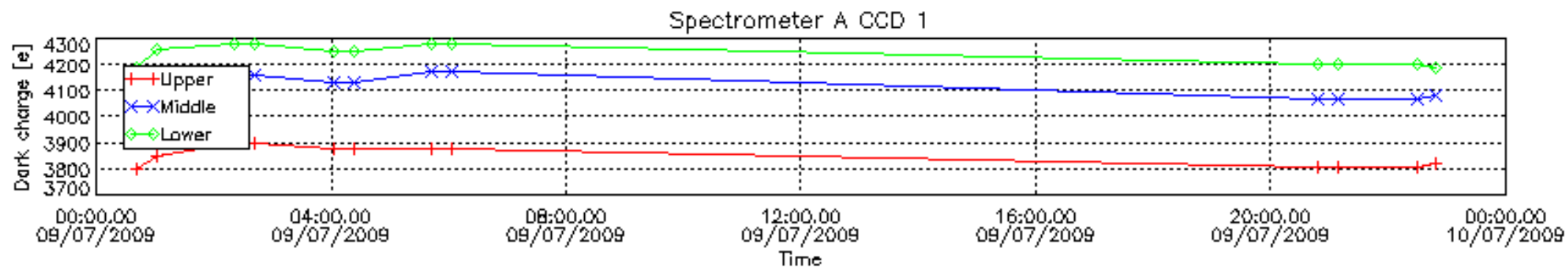
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	09-JUL-2009 00:04:21
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090708_092624_20090706_000000_20100101_000000	1	09-JUL-2009 00:04:21
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	09-JUL-2009 00:04:21
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	09-JUL-2009 00:04:21
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	09-JUL-2009 00:04:21
ECMWF_FILE	AUX_ECF_AXNECM20090708_064112_20090708_210000_20090709_090000	1	09-JUL-2009 00:04:21
ECMWF_FILE	AUX_ECF_AXNECM20090708_182112_20090709_030000_20090709_150000	27	09-JUL-2009 03:40:16
ECMWF_FILE	AUX_ECF_AXNECM20090709_064110_20090709_150000_20090710_030000	51	09-JUL-2009 20:00:36
ECMWF_FILE	AUX_ECF_AXNECM20090709_064111_20090709_210000_20090710_090000	71	09-JUL-2009 22:49:24
OPTIONAL_ECMWF_FILE	MISSING	1	09-JUL-2009 00:04:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090708_211934_000057382080_00329_38459_8313.N1	1	09-JUL-2009 00:04:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090708_230031_000057382080_00330_38460_8314.N1	8	09-JUL-2009 01:01:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090709_004128_000054192080_00331_38461_8315.N1	19	09-JUL-2009 02:21:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090709_021706_000044632080_00332_38462_8316.N1	27	09-JUL-2009 03:40:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090709_033648_000057382080_00333_38463_8317.N1	39	09-JUL-2009 05:20:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090709_193829_000038252080_00343_38473_8319.N1	51	09-JUL-2009 20:00:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090709_204215_000060572080_00343_38473_8320.N1	71	09-JUL-2009 22:49:24

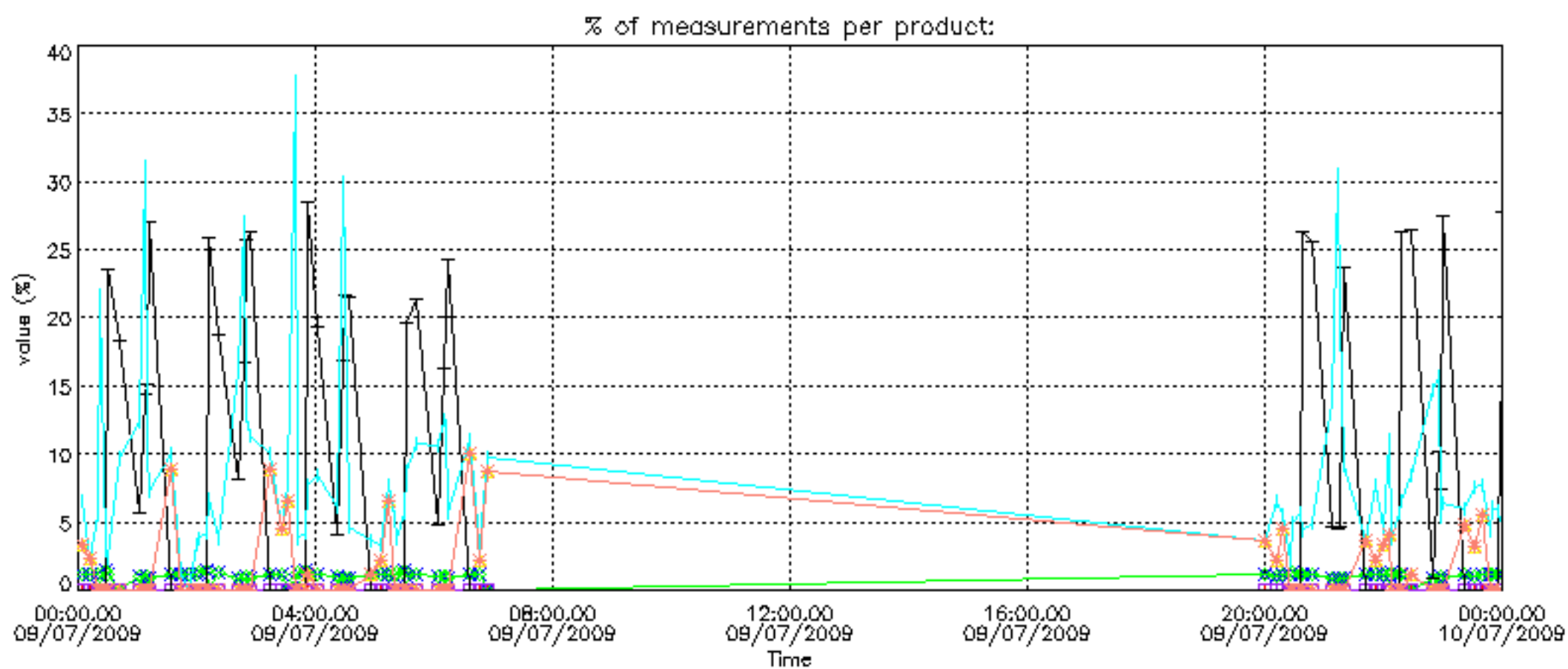




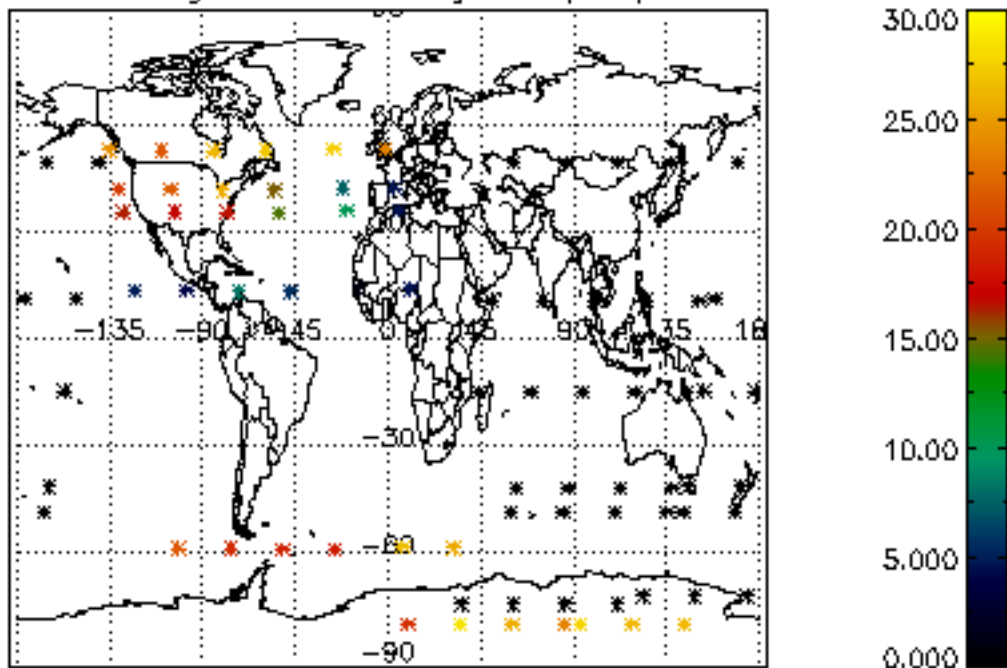




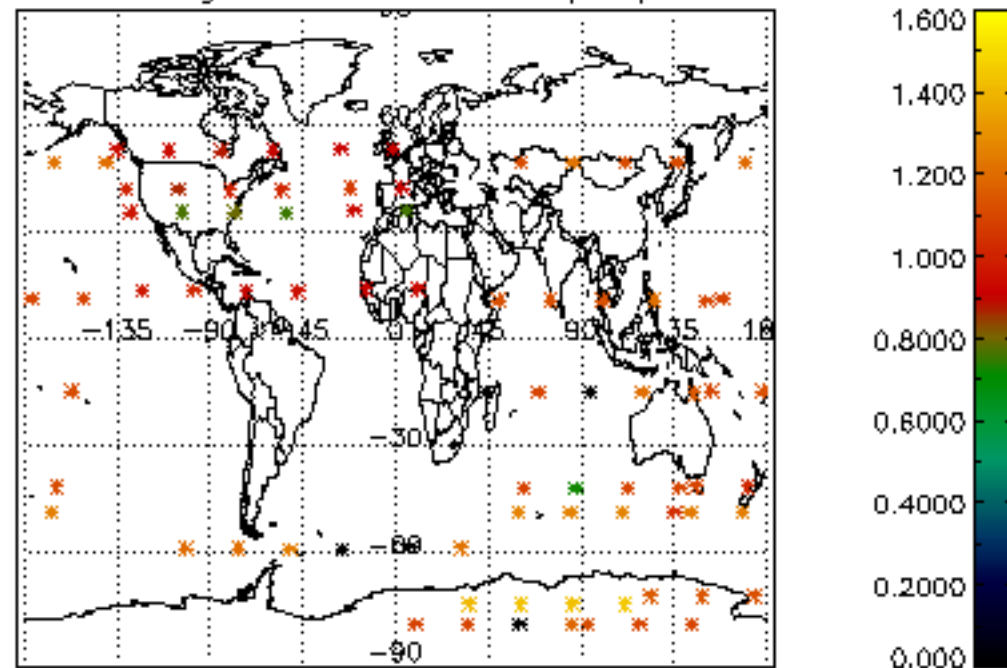




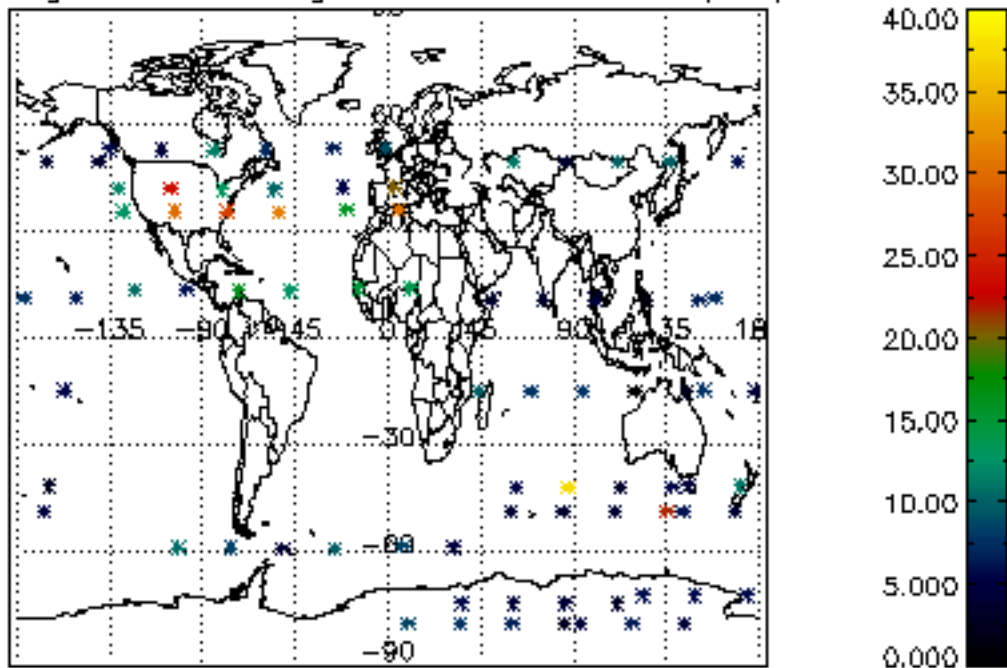
Percentage of cosmic ray hits per profile



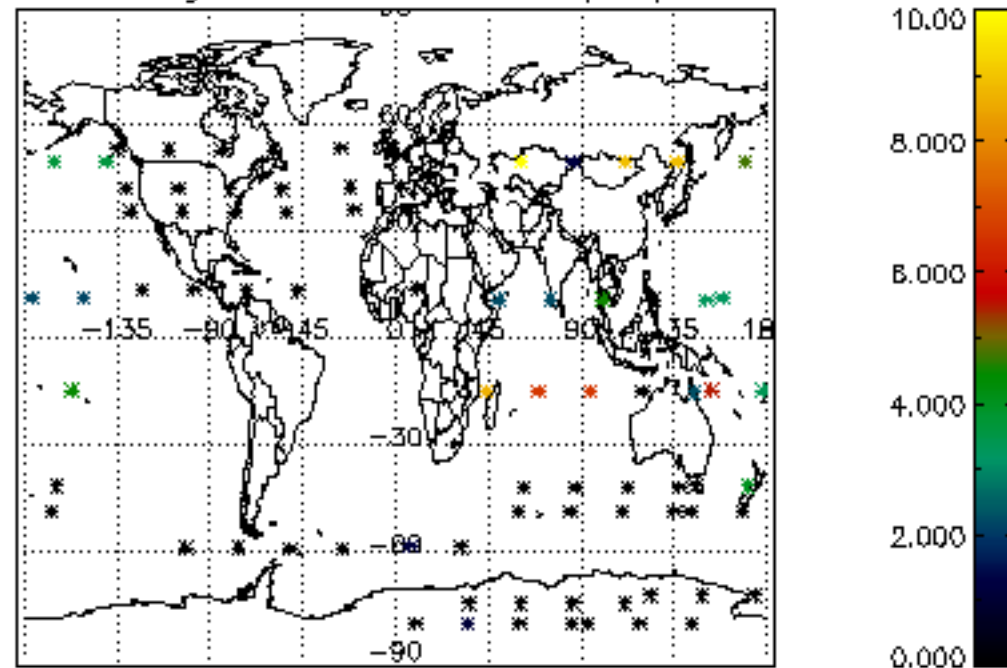
Percentage of datation errors per profile



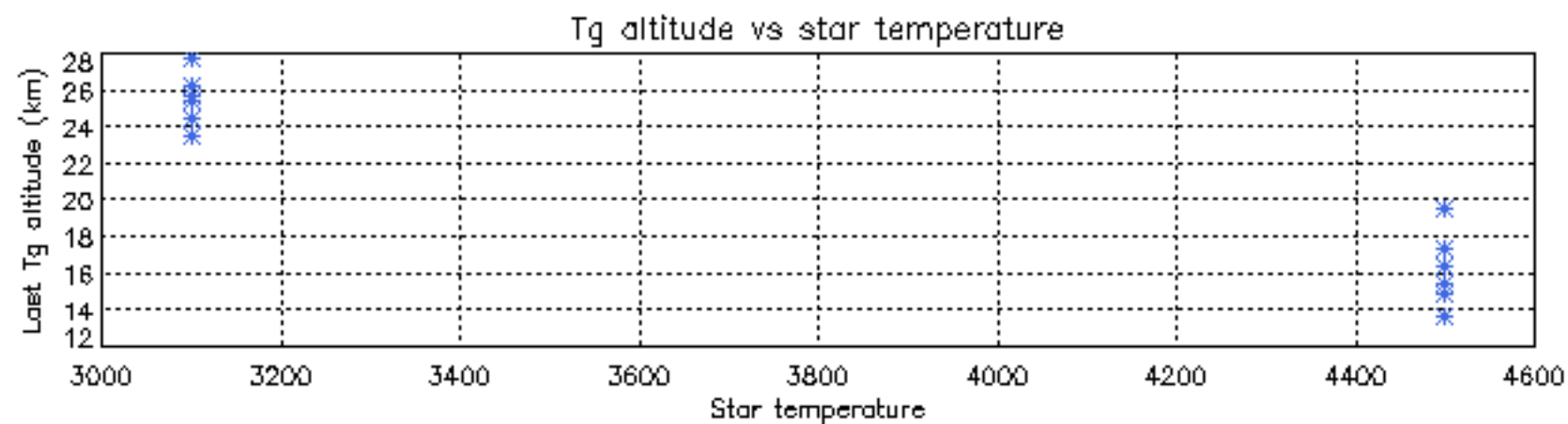
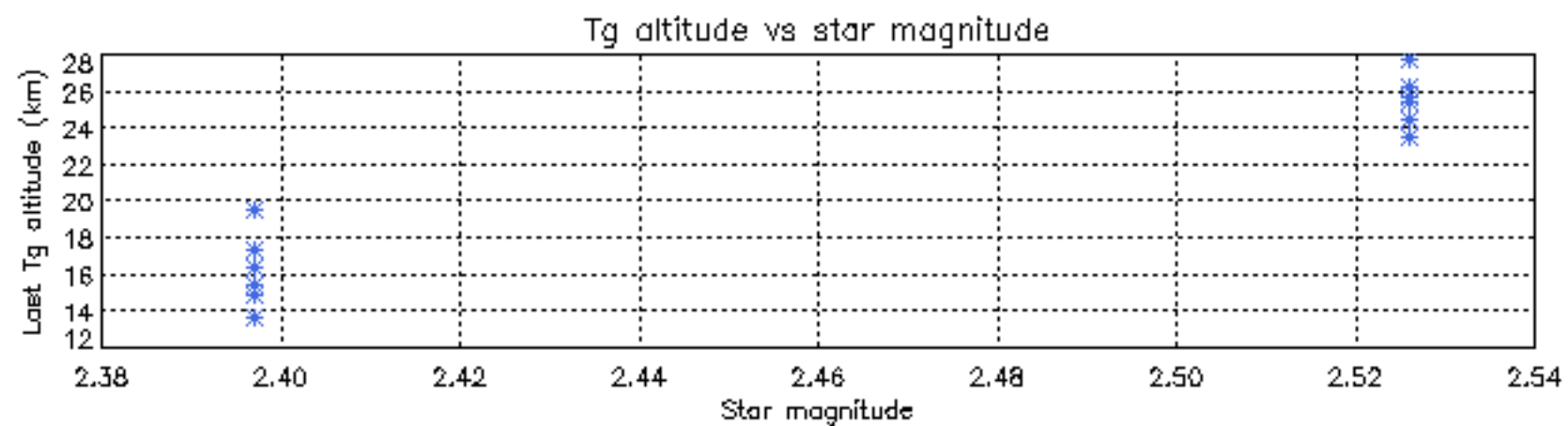
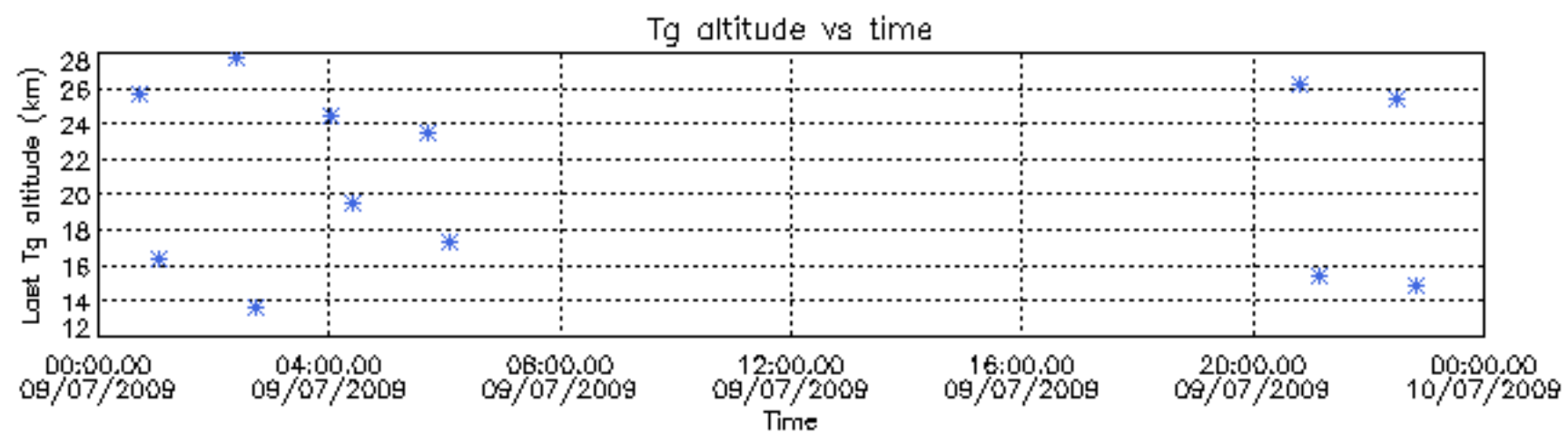
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

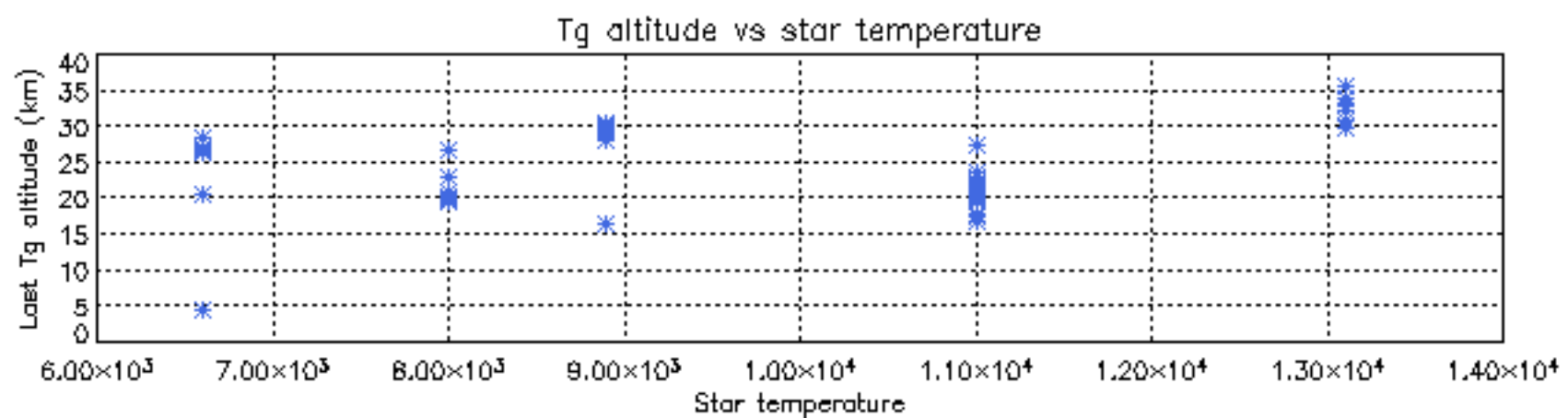
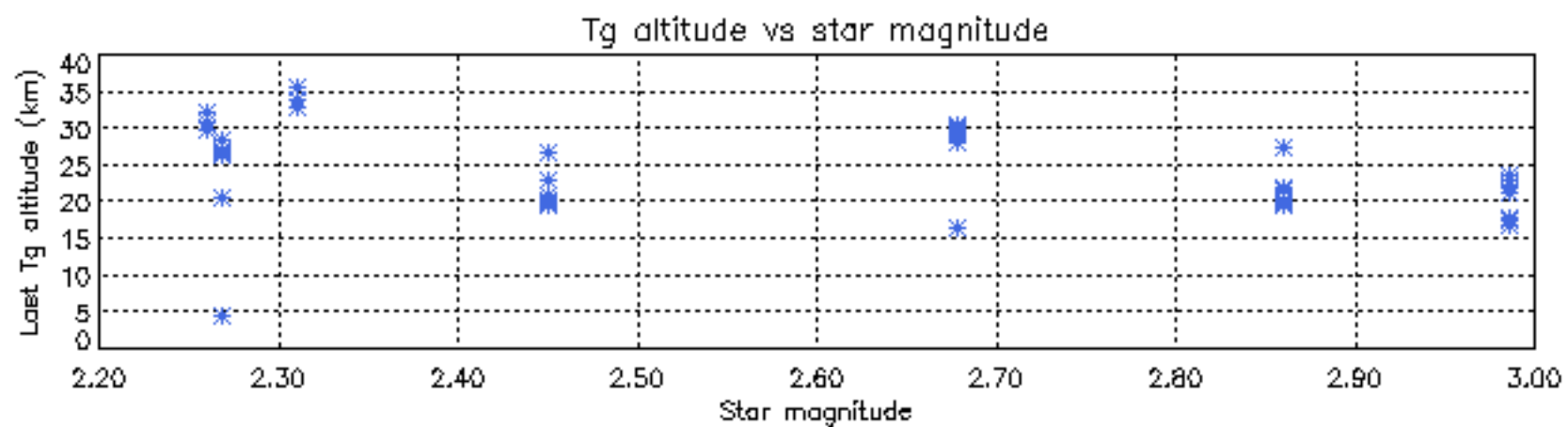
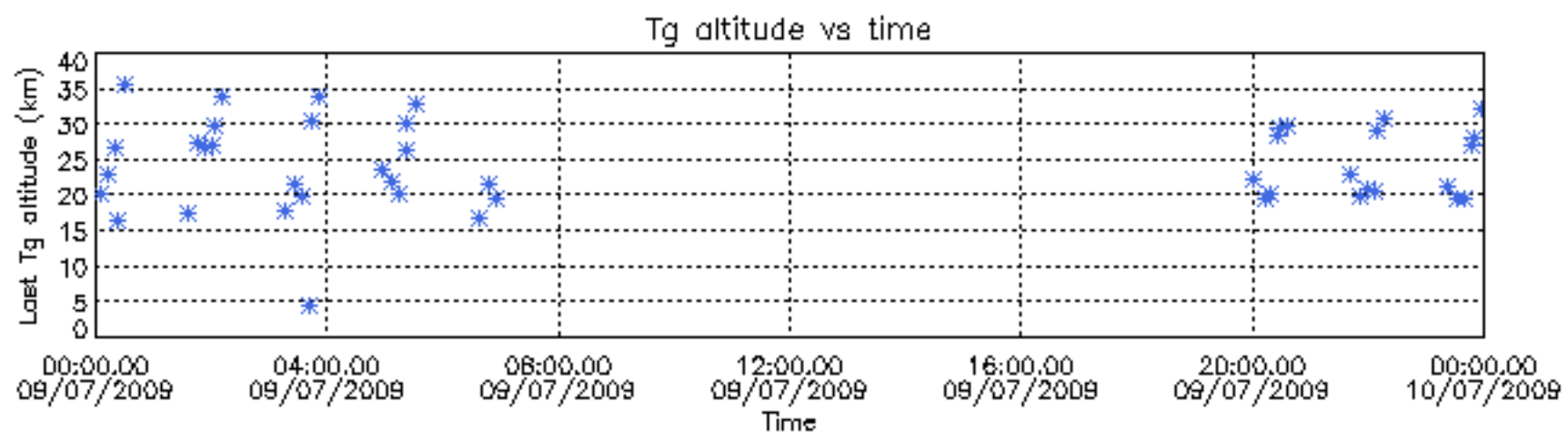


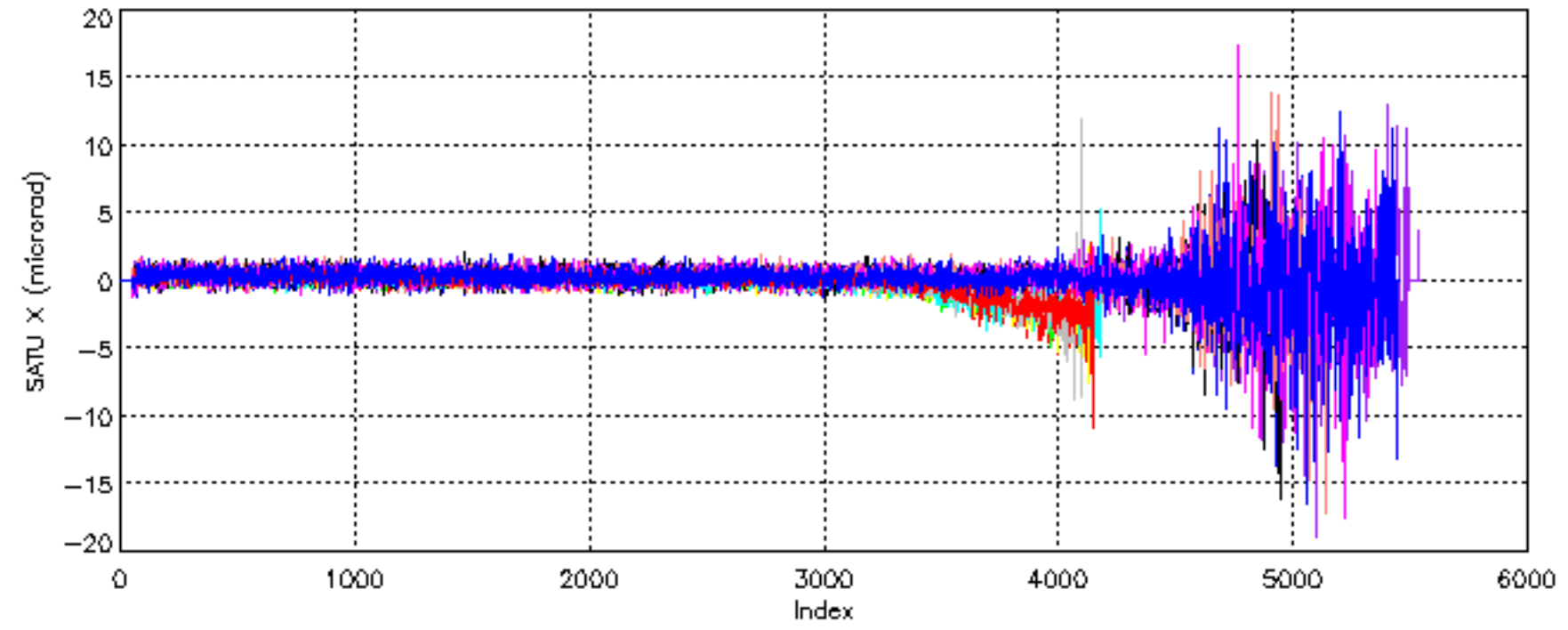
Tangent altitude at which the star is lost

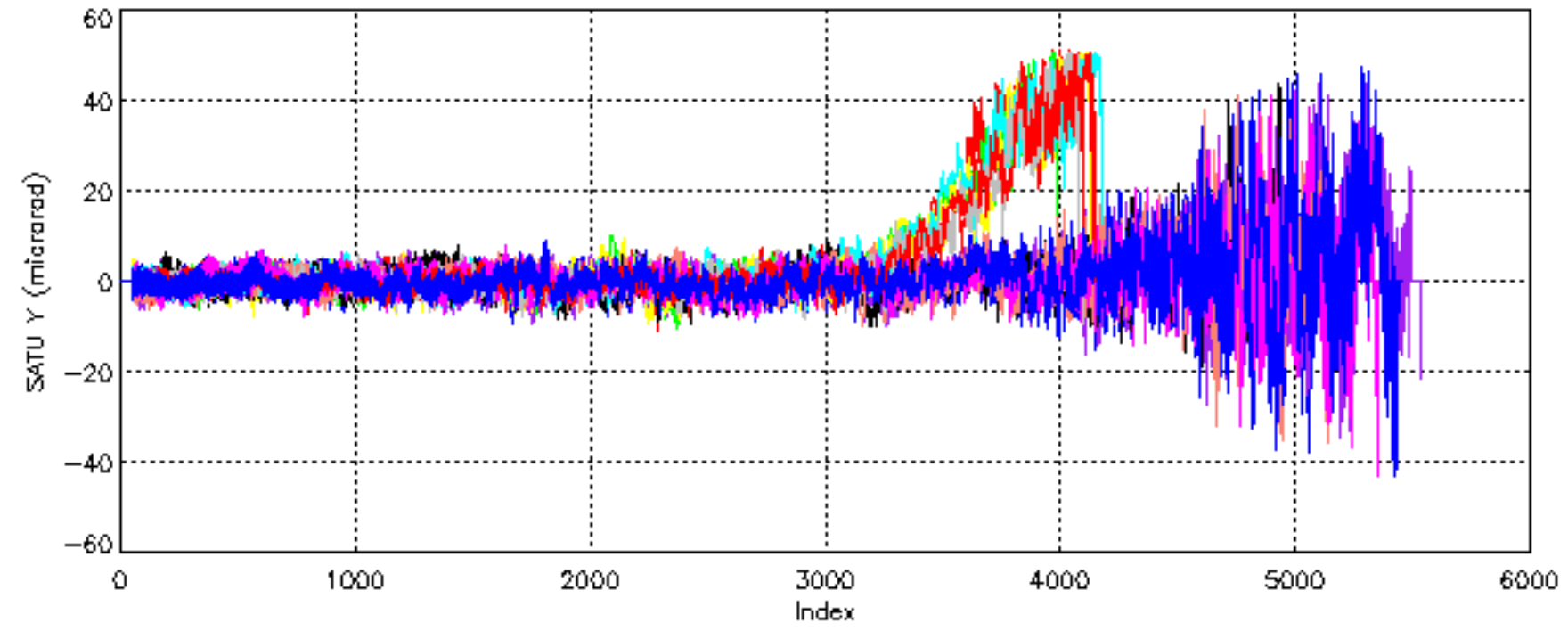




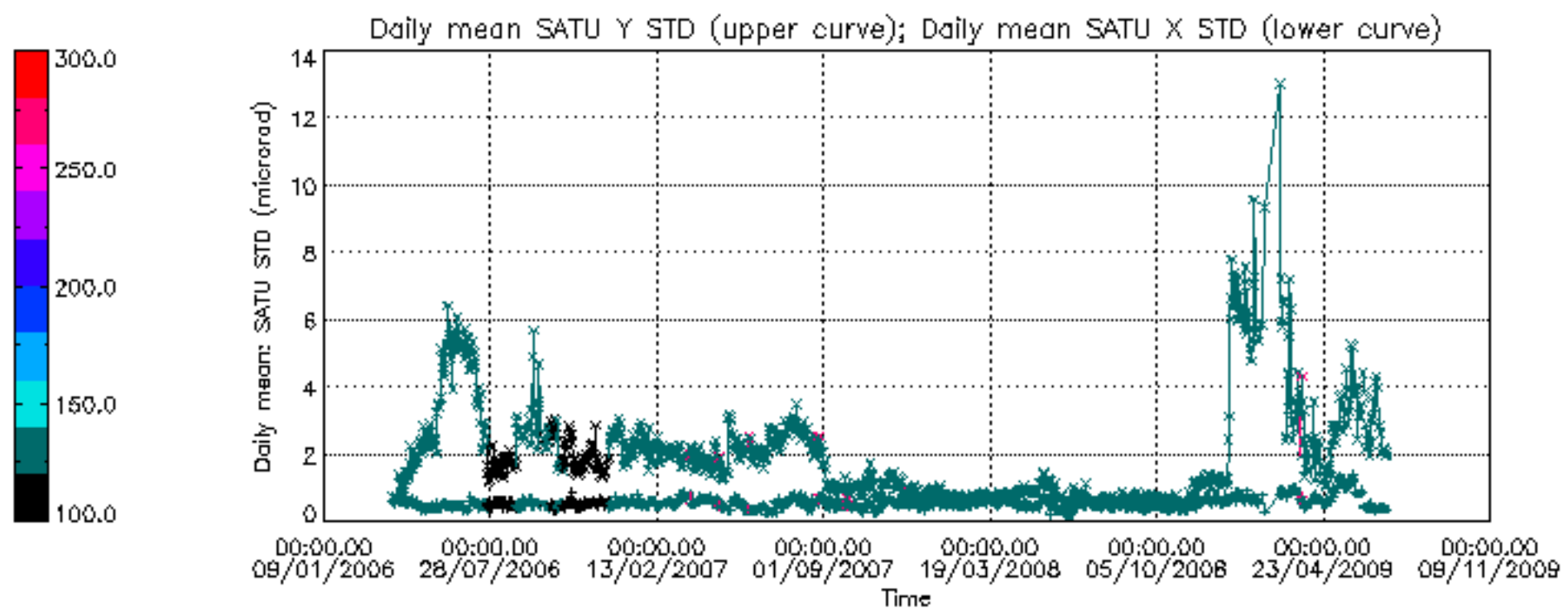
Tangent altitude at which the star is lost











```
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1; -520.0; 02-JUL-2009 01:09:09; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38361
2; 113.5; 02-JUL-2009 01:19:42; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;38362
3; 501.4; 02-JUL-2009 01:26:10; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38362
4; 616.8; 02-JUL-2009 01:28:06; Dark ; 59.0; 31; Alp Gru ; 1.73; 15200;occ; 118; 0;38362
5; 792.6; 02-JUL-2009 01:31:01; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38362
6; 1483.7; 02-JUL-2009 01:42:33; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;38362
7; 2224.2; 02-JUL-2009 01:54:53; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38362
8; 2644.5; 02-JUL-2009 02:01:53; Bright; 47.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 94; 0;38362
9; 2909.6; 02-JUL-2009 02:06:18; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38362
10; 3333.8; 02-JUL-2009 02:13:23; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38362
11; 3777.3; 02-JUL-2009 02:20:46; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;38362
12; 3872.7; 02-JUL-2009 02:22:22; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;38362
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1; -532.5; 01-JUL-2009 01:40:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38347
2; 99.4; 01-JUL-2009 01:51:05; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;38348
3; 488.0; 01-JUL-2009 01:57:34; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;38348
4; 604.2; 01-JUL-2009 01:59:30; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38348
5; 777.8; 01-JUL-2009 02:02:24; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;38348
6; 1481.2; 01-JUL-2009 02:14:07; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;38348
7; 2231.3; 01-JUL-2009 02:26:37; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38348
8; 2651.1; 01-JUL-2009 02:33:37; Bright; 47.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 95; 0;38348
9; 2921.8; 01-JUL-2009 02:38:08; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38348
10; 3343.1; 01-JUL-2009 02:45:09; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38348
11; 3784.6; 01-JUL-2009 02:52:31; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;38348
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2; -1769.2; 01-JUL-2009 03:00:33; Bright; 34.5; 73; 57Gam1And ; 2.26; 13100;occ; 69; 0;38348
3; -1610.9; 01-JUL-2009 03:03:11; Dark ; 35.0; 173; 4Bet Tri ; 3.00; 8900;occ; 70; 0;38348
4; -1355.5; 01-JUL-2009 03:07:26; Dark ; 39.5; 50; 13Alp Ari ; 2.01; 4250;occ; 79; 0;38348
5; -531.6; 01-JUL-2009 03:21:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38348
6; 100.2; 01-JUL-2009 03:31:42; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;38349
7; 489.1; 01-JUL-2009 03:38:11; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38349
8; 605.3; 01-JUL-2009 03:40:07; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38349
9; 778.8; 01-JUL-2009 03:43:01; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38349
10; 1481.3; 01-JUL-2009 03:54:43; Bright; 44.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 88; 0;38349
11; 2230.9; 01-JUL-2009 04:07:13; Bright; 51.0; 168; 17Zet Aql ; 2.99; 11000;occ; 102; 0;38349
12; 2650.9; 01-JUL-2009 04:14:13; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;38349
13; 2920.9; 01-JUL-2009 04:18:43; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38349
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3; -1769.3; 01-JUL-2009 04:41:09; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;38349
4; -1610.7; 01-JUL-2009 04:43:47; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38349
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8; 489.9; 01-JUL-2009 05:18:48; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38350
9; 606.1; 01-JUL-2009 05:20:44; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38350
10; 779.9; 01-JUL-2009 05:23:38; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38350
11; 1481.8; 01-JUL-2009 05:35:20; Bright; 43.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 86; 0;38350
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14; 2920.4; 01-JUL-2009 05:59:18; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38350
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3; 499.5; 01-JUL-2009 22:04:57; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38360  
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6; 1483.4; 01-JUL-2009 22:21:21; Bright; 41.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 83; 0;38360  
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13; 4265.9; 01-JUL-2009 23:07:43; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38360  
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4; 616.0; 01-JUL-2009 23:47:29; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38361  
5; 791.5; 01-JUL-2009 23:50:25; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38361  
6; 1483.5; 02-JUL-2009 00:01:57; Bright; 40.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 80; 0;38361  
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8; 2645.1; 02-JUL-2009 00:21:18; Bright; 50.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 100; 0;38361  
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13; 4265.7; 02-JUL-2009 00:48:19; Bright; 35.5; 73; 57Gam1And ; 2.26; 13100;occ; 71; 0;38361  
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9; 607.2; 01-JUL-2009 07:01:21; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38351  
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3; 2919.2; 01-JUL-2009 07:39:53; Bright; 49.5; 144; 18Del Cyg ; 2.86; 11000;occ; 99; 0;38351  
4; 3340.9; 01-JUL-2009 07:46:55; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38351  
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13; 6643.9; 01-JUL-2009 08:41:58; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38351  
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5; 114.5; 02-JUL-2009 03:00:19; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;38363  
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3; 2218.5; 02-JUL-2009 20:21:23; Bright; 45.0; 168; 17Zet Aql ; 2.99; 11000;occ; 90; 0;38373
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5; 850.8; 06-JUL-2009 02:46:43; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38420  
6; 2197.9; 06-JUL-2009 03:09:10; Bright; 47.5; 168; 17Zet Aql ; 2.99; 11000;occ; 95; 0;38420  
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6; 2193.8; 06-JUL-2009 21:35:42; Bright; 43.0; 168; 17Zet Aql ; 2.99; 11000;occ; 86; 0;38431
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 5; 875.9; 08-JUL-2009 00:03:18; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;38447  
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 9; 572.4; 07-JUL-2009 07:12:16; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;38437  
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 9; 5021.3; 07-JUL-2009 08:26:25; Dark ; 39.5; 94; 92Alp Cet ; 2.53; 3100;occ; 79; 0;38437  
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 13; 6718.0; 07-JUL-2009 08:54:41; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38437  
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 4; 3734.0; 07-JUL-2009 09:45:33; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38438  
 5; 3847.9; 07-JUL-2009 09:47:27; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38438  
 6; 4258.8; 07-JUL-2009 09:54:18; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;38438  
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 5; 4258.7; 07-JUL-2009 11:34:54; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;38439
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8; 4716.4; 07-JUL-2009 18:24:55; Dark ; 47.0; 50; 13Alp Ari ; 2.01; 4250;occ; 94; 0;38443
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6; 4258.0; 07-JUL-2009 19:57:53; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38444
7; 4431.7; 07-JUL-2009 20:00:46; Dark ; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;38444
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4; 3222.0; 14-JUL-2009 07:36:18; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38537
5; 3670.7; 14-JUL-2009 07:43:47; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38537
6; 3808.6; 14-JUL-2009 07:46:05; Bright; 64.0; 110; 37Del Cas ; 2.68; 8900;occ; 128; 0;38537
7; 4043.6; 14-JUL-2009 07:50:00; Bright; 60.0; 160; 23Gam Per ; 2.93; 4700;occ; 120; 0;38537
8; 4122.8; 14-JUL-2009 07:51:19; Bright; 59.0; 35; 33Alp Per ; 1.79; 6250;occ; 118; 0;38537
9; 4243.6; 14-JUL-2009 07:53:20; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;38537
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13; 6697.9; 14-JUL-2009 08:34:14; Dark ; 65.0; 63; Bet Gru ; 2.15; 2800;occ; 130; 0;38537
14; 6796.4; 14-JUL-2009 08:35:53; Dark ; 52.5; 31; Alp Gru ; 1.73; 15200;occ; 105; 0;38537
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4; 3220.9; 14-JUL-2009 10:57:29; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38539
5; 3669.3; 14-JUL-2009 11:04:57; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38539
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7; 4042.8; 14-JUL-2009 14:32:23; Bright; 38.5; 160; 23Gam Per ; 2.93; 4700;occ; 77; 0;38541
8; 4122.4; 14-JUL-2009 14:33:42; Bright; 44.0; 35; 33Alp Per ; 1.79; 6250;occ; 88; 0;38541
9; 4242.9; 14-JUL-2009 14:35:43; Bright; 31.0; 73; 57Gam1And ; 2.26; 13100;occ; 62; 0;38541
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4; 3219.2; 14-JUL-2009 15:59:15; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38542
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15; 6800.8; 14-JUL-2009 18:39:32; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38543
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 4; 767.6; 15-JUL-2009 01:21:59; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38548  
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 7; 670.9; 15-JUL-2009 03:00:58; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;38549  
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 9; 961.1; 15-JUL-2009 03:05:48; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38549  
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 9; 672.1; 15-JUL-2009 04:41:35; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38550  
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 15; 3214.4; 15-JUL-2009 05:23:58; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38550  
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9; 673.0; 15-JUL-2009 06:22:12; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38551
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12; 2108.6; 15-JUL-2009 06:46:08; Bright; 45.0; 11; 53Alp Aql ; 0.76; 8000;occ; 90; 0;38551
13; 2781.3; 15-JUL-2009 06:57:20; Bright; 43.0; 144; 18Del Cyg ; 2.86; 11000;occ; 86; 0;38551
14; 2925.5; 15-JUL-2009 06:59:45; Bright; 49.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 99; 0;38551
15; 3213.6; 15-JUL-2009 07:04:33; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38551
16; 3661.2; 15-JUL-2009 07:12:00; Bright; 55.5; 74; 11Bet Cas ; 2.27; 6600;occ; 111; 0;38551
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4; -1914.7; 15-JUL-2009 07:19:40; Bright; 40.0; 35; 33Alp Per ; 1.79; 6250;occ; 80; 0;38551
5; -1738.7; 15-JUL-2009 07:22:36; Bright; 45.0; 79; 26Bet Per ; 2.31; 13100;occ; 90; 0;38551
6; -942.6; 15-JUL-2009 07:35:53; Dark ; 60.0; 94; 92Alp Cet ; 2.53; 3100;occ; 120; 0;38551
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9; 673.7; 15-JUL-2009 08:02:49; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;38552
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3; 2924.6; 15-JUL-2009 08:40:20; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;38552
4; 3213.1; 15-JUL-2009 08:45:08; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38552
5; 3660.4; 15-JUL-2009 08:52:35; Bright; 56.0; 74; 11Bet Cas ; 2.27; 6600;occ; 112; 0;38552
6; 3802.0; 15-JUL-2009 08:54:57; Bright; 44.5; 110; 37Del Cas ; 2.68; 8900;occ; 89; 0;38552
7; 4041.0; 15-JUL-2009 08:58:56; Bright; 40.5; 160; 23Gam Per ; 2.93; 4700;occ; 81; 0;38552
8; 4121.2; 15-JUL-2009 09:00:16; Bright; 41.0; 35; 33Alp Per ; 1.79; 6250;occ; 82; 0;38552
9; 4297.1; 15-JUL-2009 09:03:12; Bright; 43.0; 79; 26Bet Per ; 2.31; 13100;occ; 86; 0;38552
10; 5094.1; 15-JUL-2009 09:16:29; Dark ; 66.5; 94; 92Alp Cet ; 2.53; 3100;occ; 133; 0;38552
11; 5441.1; 15-JUL-2009 09:22:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38552
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3; 2923.7; 15-JUL-2009 10:20:55; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;38553
4; 3212.6; 15-JUL-2009 10:25:44; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38553
5; 3659.8; 15-JUL-2009 10:33:11; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38553
6; 3801.5; 15-JUL-2009 10:35:33; Bright; 47.0; 110; 37Del Cas ; 2.68; 8900;occ; 94; 0;38553
7; 4040.7; 15-JUL-2009 10:39:32; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;38553
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9; 4297.0; 15-JUL-2009 10:43:48; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38553
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13; 6711.2; 15-JUL-2009 11:24:02; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38553
14; 6808.0; 15-JUL-2009 11:25:39; Dark ; 53.0; 31; Alp Gru ; 1.73; 15200;occ; 106; 0;38553
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4; 3211.8; 15-JUL-2009 12:06:19; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38554
5; 3659.0; 15-JUL-2009 12:13:46; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38554
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7; 4040.7; 15-JUL-2009 12:20:08; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;38554
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9; 4297.0; 15-JUL-2009 12:24:24; Bright; 44.5; 79; 26Bet Per ; 2.31; 13100;occ; 89; 0;38554
10; 5095.6; 15-JUL-2009 12:37:43; Dark ; 68.0; 94; 92Alp Cet ; 2.53; 3100;occ; 136; 0;38554
11; 5442.9; 15-JUL-2009 12:43:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38554
12; 6362.5; 15-JUL-2009 12:58:49; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38554
13; 6712.1; 15-JUL-2009 13:04:39; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38554

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3; 2921.9; 15-JUL-2009 13:42:05; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;38555
4; 3658.5; 15-JUL-2009 13:54:21; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;38555
5; 3800.5; 15-JUL-2009 13:56:43; Bright; 52.0; 110; 37Del Cas ; 2.68; 8900;occ; 104; 0;38555
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13; 6809.5; 15-JUL-2009 14:46:52; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38555
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5; 776.3; 15-JUL-2009 21:29:19; Dark ; 58.5; 31; Alp Gru ; 1.73; 15200;occ; 117; 0;38560
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9; 4117.5; 17-JUL-2009 21:21:46; Bright; 61.0; 35; 33Alp Per ; 1.79; 6250;occ; 122; 0;38588
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9; 4296.3; 17-JUL-2009 07:59:57; Bright; 50.0; 79; 26Bet Per ; 2.31; 13100;occ; 100; 0;38580
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 16; 6829.9; 17-JUL-2009 15:24:35; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;38584  
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 16; 6831.1; 17-JUL-2009 17:05:12; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38585  
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 3; 2896.2; 17-JUL-2009 17:40:13; Bright; 48.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 97; 0;38586  
 4; 3193.6; 17-JUL-2009 17:45:10; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38586  
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 9; 4295.9; 17-JUL-2009 18:03:33; Bright; 47.0; 79; 26Bet Per ; 2.31; 13100;occ; 94; 0;38586  
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 5; 991.7; 18-JUL-2009 01:31:28; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38591  
 6; 2153.4; 18-JUL-2009 01:50:50; Bright; 39.5; 168; 17Zet Aql ; 2.99; 11000;occ; 79; 0;38591  
 7; 2761.6; 18-JUL-2009 02:00:58; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38591  
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 11; 3750.4; 18-JUL-2009 02:17:27; Bright; 44.0; 68; 18Alp Cas ; 2.22; 4500;occ; 88; 0;38591  
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 3; -1561.9; 18-JUL-2009 02:29:30; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38591  
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11; 2761.3; 18-JUL-2009 03:41:33; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38592
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5;-1740.2; 18-JUL-2009 04:07:08; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38592
6;-1561.8; 18-JUL-2009 04:10:06; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38592
7; -910.0; 18-JUL-2009 04:20:58; Dark ; 64.0; 94; 92Alp Cet ; 2.53; 3100;occ; 128; 0;38592
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9; 370.3; 18-JUL-2009 04:42:18; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;38593
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11; 3624.3; 18-JUL-2009 22:22:32; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38603

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13; 5338.4; 22-JUL-2009 10:41:02; Dark ; 47.0; 165; 34Gam Eri ; 2.95; 3200;occ; 94; 0;38653
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 8; 4103.2; 24-JUL-2009 10:57:49; Bright; 44.5; 35; 33Alp Per ; 1.79; 6250;occ; 89; 0;38682
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11; 4656.8; 24-JUL-2009 11:07:02; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;38682
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 18; 6897.5; 24-JUL-2009 20:07:23; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38687  
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 15; 6527.7; 25-JUL-2009 14:27:48; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38698  
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 3; 2816.3; 25-JUL-2009 15:06:33; Bright; 43.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 87; 0;38699  
 4; 3133.4; 25-JUL-2009 15:11:50; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38699  
 5; 3552.2; 25-JUL-2009 15:18:49; Bright; 67.5; 74; 11Bet Cas ; 2.27; 6600;occ; 135; 0;38699  
 6; 3657.6; 25-JUL-2009 15:20:34; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38699  
 7; 4008.6; 25-JUL-2009 15:26:25; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38699  
 8; 4100.2; 25-JUL-2009 15:27:56; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 0;38699  
 9; 4287.8; 25-JUL-2009 15:31:04; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38699  
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 11; 4662.1; 25-JUL-2009 15:37:18; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38699  
 12; 4757.5; 25-JUL-2009 15:38:54; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;38699  
 13; 5370.7; 25-JUL-2009 15:49:07; Dark ; 55.0; 165; 34Gam Eri ; 2.95; 3200;occ; 110; 0;38699  
 14; 5601.8; 25-JUL-2009 15:52:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38699  
 15; 5929.6; 25-JUL-2009 15:58:26; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;38699  
 16; 6529.0; 25-JUL-2009 16:08:25; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38699  
 17; 6904.7; 25-JUL-2009 16:14:41; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38699  
 18; 7096.8; 25-JUL-2009 16:17:53; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38699

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 3; 2815.7; 25-JUL-2009 16:47:08; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38700  
 4; 3133.0; 25-JUL-2009 16:52:25; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38700  
 5; 3551.5; 25-JUL-2009 16:59:24; Bright; 53.0; 74; 11Bet Cas ; 2.27; 6600;occ; 106; 0;38700  
 6; 3656.9; 25-JUL-2009 17:01:09; Bright; 71.0; 76; 27Gam Cas ; 2.30; 30000;occ; 142; 0;38700  
 7; 4008.3; 25-JUL-2009 17:07:01; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38700  
 8; 4100.0; 25-JUL-2009 17:08:32; Bright; 44.0; 35; 33Alp Per ; 1.79; 6250;occ; 88; 0;38700  
 9; 4287.7; 25-JUL-2009 17:11:40; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38700  
 10; 4488.9; 25-JUL-2009 17:15:01; Dark ; 50.0; 150; 44Zet Per ; 2.89; 28000;occ; 100; 0;38700  
 11; 4662.6; 25-JUL-2009 17:17:55; Dark ; 52.0; 146; 25Eta Tau ; 2.87; 15200;occ; 104; 0;38700  
 12; 4757.7; 25-JUL-2009 17:19:30; Dark ; 57.5; 13; 87Alp Tau ; 0.87; 3800;occ; 115; 0;38700  
 13; 5371.3; 25-JUL-2009 17:29:44; Dark ; 50.5; 165; 34Gam Eri ; 2.95; 3200;occ; 101; 0;38700  
 14; 5603.1; 25-JUL-2009 17:33:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38700  
 15; 5930.5; 25-JUL-2009 17:39:03; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38700  
 16; 6530.0; 25-JUL-2009 17:49:02; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38700  
 17; 6905.3; 25-JUL-2009 17:55:18; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;38700

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 3; 2635.6; 25-JUL-2009 18:24:44; Bright; 48.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 96; 0;38701  
 4; 2814.9; 25-JUL-2009 18:27:43; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38701  
 5; 3132.6; 25-JUL-2009 18:33:01; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38701  
 6; 3550.7; 25-JUL-2009 18:39:59; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38701  
 7; 3656.2; 25-JUL-2009 18:41:44; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38701  
 8; 4007.9; 25-JUL-2009 18:47:36; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;38701  
 9; 4099.5; 25-JUL-2009 18:49:08; Bright; 45.0; 35; 33Alp Per ; 1.79; 6250;occ; 90; 0;38701  
 10; 4287.7; 25-JUL-2009 18:52:16; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38701  
 11; 4489.0; 25-JUL-2009 18:55:37; Dark ; 48.0; 150; 44Zet Per ; 2.89; 28000;occ; 96; 0;38701  
 12; 4662.8; 25-JUL-2009 18:58:31; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 0;38701  
 13; 4757.8; 25-JUL-2009 19:00:06; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;38701  
 14; 5372.1; 25-JUL-2009 19:10:20; Dark ; 49.0; 165; 34Gam Eri ; 2.95; 3200;occ; 98; 0;38701  
 15; 5604.4; 25-JUL-2009 19:14:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38701  
 16; 5931.2; 25-JUL-2009 19:19:40; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;38701  
 17; 6531.2; 25-JUL-2009 19:29:39; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;38701  
 18; 6905.9; 25-JUL-2009 19:35:54; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38701

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5; 871.6; 26-JUL-2009 00:37:44; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38705
6; 1063.4; 26-JUL-2009 00:40:55; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38705
7; 2068.9; 26-JUL-2009 00:57:41; Bright; 40.0; 11; 53Alp Aql ; 0.76; 8000;occ; 80; 0;38705
8; 2632.5; 26-JUL-2009 01:07:04; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38705
9; 2812.5; 26-JUL-2009 01:10:04; Bright; 44.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 89; 0;38705
10; 3130.4; 26-JUL-2009 01:15:22; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;38705
11; 3547.3; 26-JUL-2009 01:22:19; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38705
12; 3653.6; 26-JUL-2009 01:24:06; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38705
13; 4006.8; 26-JUL-2009 01:29:59; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;38705
14; 4098.6; 26-JUL-2009 01:31:31; Bright; 47.5; 35; 33Alp Per ; 1.79; 6250;occ; 95; 0;38705
15; 4287.0; 26-JUL-2009 01:34:39; Bright; 52.0; 79; 26Bet Per ; 2.31; 13100;occ; 104; 0;38705
16; 4489.5; 26-JUL-2009 01:38:01; Dark ; 50.5; 150; 44Zet Per ; 2.89; 28000;occ; 101; 0;38705
17; 4664.0; 26-JUL-2009 01:40:56; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38705
18; 4759.1; 26-JUL-2009 01:42:31; Dark ; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;38705
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3; -101.3; 26-JUL-2009 02:02:06; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38705
4; 499.6; 26-JUL-2009 02:12:07; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;38706
5; 872.2; 26-JUL-2009 02:18:20; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38706
6; 1064.0; 26-JUL-2009 02:21:32; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38706
7; 2068.8; 26-JUL-2009 02:38:17; Bright; 43.0; 11; 53Alp Aql ; 0.76; 8000;occ; 86; 0;38706
8; 2631.9; 26-JUL-2009 02:47:40; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38706
9; 2811.9; 26-JUL-2009 02:50:40; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;38706
10; 3130.0; 26-JUL-2009 02:55:58; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38706
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3; -2029.5; 26-JUL-2009 03:10:34; Bright; 43.0; 160; 23Gam Per ; 2.93; 4700;occ; 86; 0;38706
4; -1937.4; 26-JUL-2009 03:12:06; Bright; 45.0; 35; 33Alp Per ; 1.79; 6250;occ; 90; 0;38706
5; -1749.0; 26-JUL-2009 03:15:15; Bright; 53.0; 79; 26Bet Per ; 2.31; 13100;occ; 106; 0;38706
6; -1546.4; 26-JUL-2009 03:18:37; Dark ; 48.5; 150; 44Zet Per ; 2.89; 28000;occ; 97; 0;38706
7; -1371.6; 26-JUL-2009 03:21:32; Dark ; 52.5; 146; 25Eta Tau ; 2.87; 15200;occ; 105; 0;38706
8; -1276.4; 26-JUL-2009 03:23:07; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;38706
9; -660.1; 26-JUL-2009 03:33:24; Dark ; 49.5; 165; 34Gam Eri ; 2.95; 3200;occ; 99; 0;38706
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6; -1371.4; 26-JUL-2009 05:02:08; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38707
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12; 873.4; 26-JUL-2009 05:39:33; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;38708
13; 1065.1; 26-JUL-2009 05:42:45; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38708
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16; 2810.8; 26-JUL-2009 06:11:51; Bright; 64.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 128; 0;38708
17; 3129.1; 26-JUL-2009 06:17:09; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38708

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4; 3121.4; 27-JUL-2009 09:06:36; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;38724
5; 3532.5; 27-JUL-2009 09:13:27; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38724
6; 3641.5; 27-JUL-2009 09:15:16; Bright; 55.0; 76; 27Gam Cas ; 2.30; 30000;occ; 110; 0;38724
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9; 4284.9; 27-JUL-2009 09:26:00; Bright; 54.5; 79; 26Bet Per ; 2.31; 13100;occ; 109; 0;38724
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4; 3120.9; 27-JUL-2009 10:47:12; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38725
5; 3531.8; 27-JUL-2009 10:54:02; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38725
6; 3640.8; 27-JUL-2009 10:55:51; Bright; 49.5; 76; 27Gam Cas ; 2.30; 30000;occ; 99; 0;38725
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8; 4094.7; 27-JUL-2009 11:03:25; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38725
9; 4284.7; 27-JUL-2009 11:06:35; Bright; 56.0; 79; 26Bet Per ; 2.31; 13100;occ; 112; 0;38725
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12; 4765.9; 27-JUL-2009 11:14:36; Dark ; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;38725
13; 5390.5; 27-JUL-2009 11:25:01; Dark ; 52.0; 165; 34Gam Eri ; 2.95; 3200;occ; 104; 0;38725
14; 5636.9; 27-JUL-2009 11:29:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38725
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16; 6558.0; 27-JUL-2009 11:44:29; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38725
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3; 2800.4; 27-JUL-2009 12:22:27; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38726
4; 3120.4; 27-JUL-2009 12:27:47; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38726
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8; 4094.4; 27-JUL-2009 12:44:01; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38726

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 12; 4766.3; 27-JUL-2009 12:55:13; Dark ; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;38726  
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 15; 5953.1; 27-JUL-2009 13:15:00; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;38726  
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 3; 2799.2; 27-JUL-2009 15:43:37; Bright; 40.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 81; 0;38728  
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 17; 6921.6; 27-JUL-2009 16:52:20; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;38728  
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 3; 2798.6; 27-JUL-2009 17:24:13; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;38729  
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 5; 2709.8; 27-JUL-2009 19:03:20; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38730  
 6; 2798.0; 27-JUL-2009 19:04:48; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38730  
 7; 3118.5; 27-JUL-2009 19:10:09; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38730  
 8; 3527.9; 27-JUL-2009 19:16:58; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38730  
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 5; 888.3; 28-JUL-2009 01:15:22; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38734  
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 9; 2708.7; 28-JUL-2009 01:45:43; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38734  
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 4; 2768.8; 31-JUL-2009 16:57:51; Bright; 42.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 84; 0;38786
 5; 3093.4; 31-JUL-2009 17:03:16; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38786
 6; 3483.0; 31-JUL-2009 17:09:45; Bright; 52.5; 74; 11Bet Cas ; 2.27; 6600;occ; 105; 0;38786
 7; 3600.2; 31-JUL-2009 17:11:42; Bright; 51.0; 76; 27Gam Cas ; 2.30; 30000;occ; 102; 0;38786
 8; 3981.0; 31-JUL-2009 17:18:03; Bright; 69.0; 160; 23Gam Per ; 2.93; 4700;occ; 138; 0;38786
 9; 4080.0; 31-JUL-2009 17:19:42; Bright; 45.5; 35; 33Alp Per ; 1.79; 6250;occ; 91; 0;38786
10; 4316.1; 31-JUL-2009 17:23:38; Bright; 47.5; 149; 45Eps Per ; 2.89; 30000;occ; 95; 0;38786
11; 4500.9; 31-JUL-2009 17:26:43; Dark ; 54.0; 150; 44Zet Per ; 2.89; 28000;occ; 108; 0;38786
12; 4787.9; 31-JUL-2009 17:31:30; Dark ; 58.5; 13; 87Alp Tau ; 0.87; 3800;occ; 117; 0;38786
13; 5285.0; 31-JUL-2009 17:39:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38786
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 3; 1569.8; 31-JUL-2009 18:18:28; Bright; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;38787
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 9; 3599.6; 31-JUL-2009 18:52:18; Bright; 63.5; 76; 27Gam Cas ; 2.30; 30000;occ; 127; 0;38787
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19; 6954.0; 31-JUL-2009 19:48:12; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;38787

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