

# GOMOS Daily Report 05-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	08JUL2009 04:44:03
Data source version	GOMOS/5.00
Start time of products	05JUL2009 00:07:49
Stop time of products	05JUL2009 23:59:06
Store outputs in DB	Yes
Nb of level 1b prods	92
Nb of prods with errors	1

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

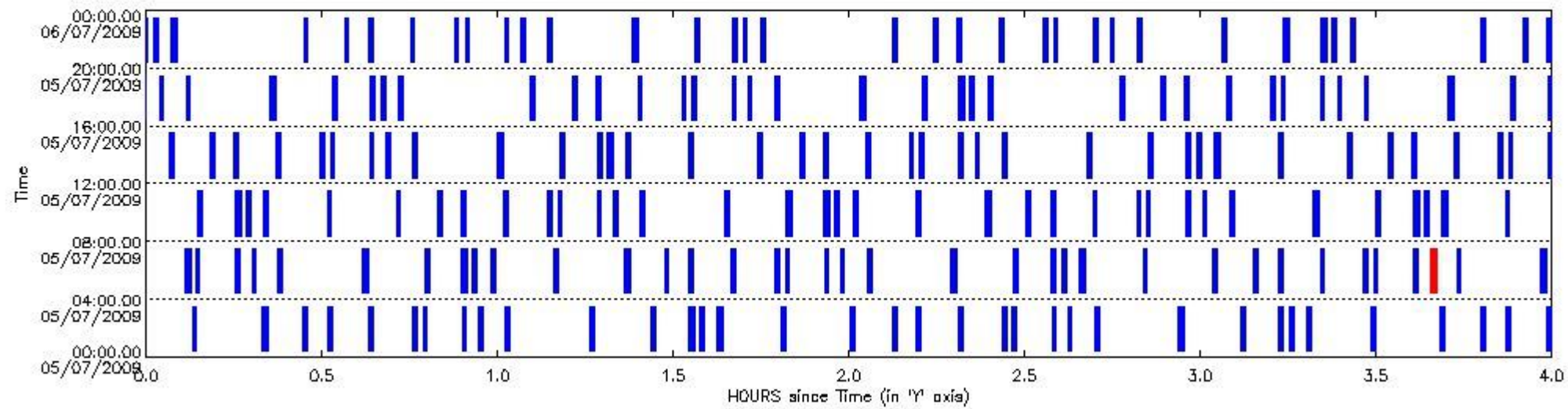
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
05-JUL-2009 07:39:10	4BetTri	173	38408

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

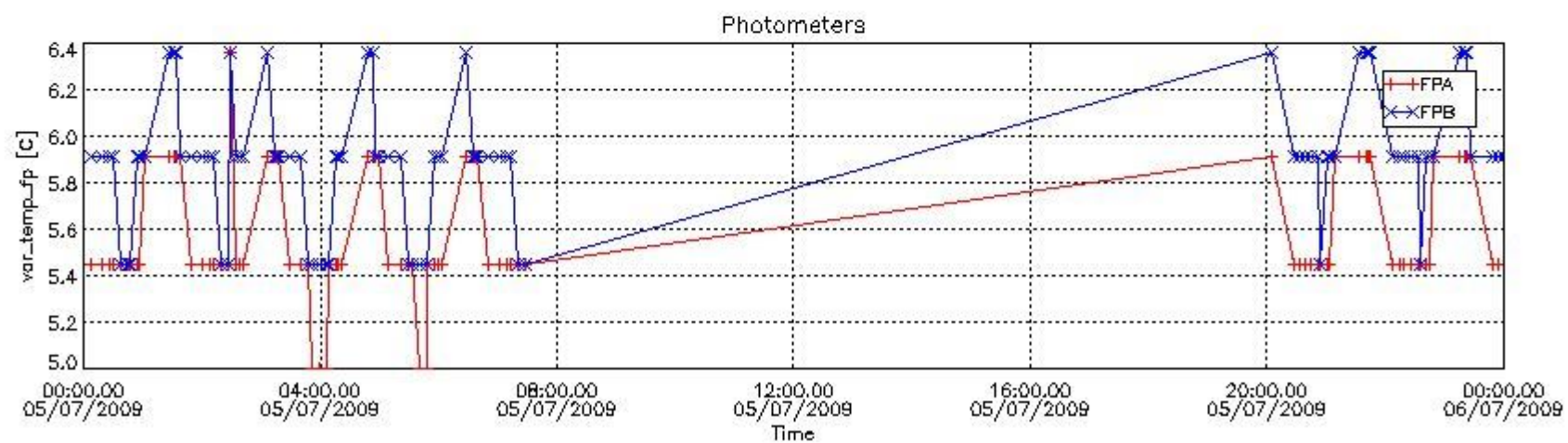
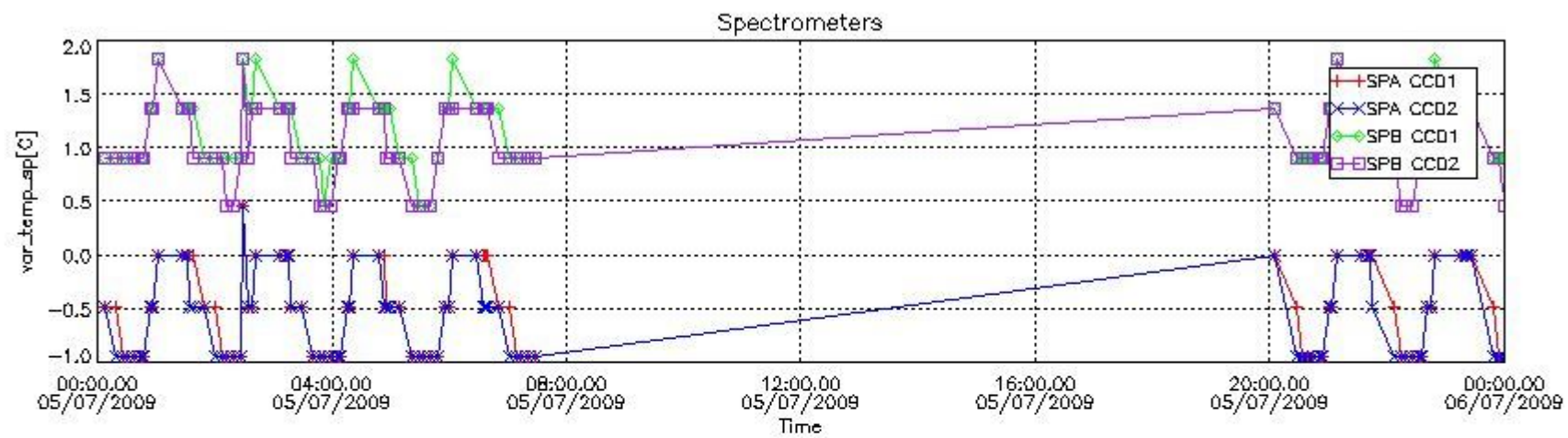
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090705_000749_000000452080_00274_38404_4422.N1	05-JUL-2009 00:07:49	Bright	45.000	155	41Pi Sgr	2.9000	6600.0	90	38404	No
2	GOM_TRA_1PNPDE20090705_001942_000000672080_00274_38404_4423.N1	05-JUL-2009 00:19:42	Bright	67.000	168	17Zet Aql	2.9860	11000.	134	38404	No
3	GOM_TRA_1PNPDE20090705_002644_000000452080_00274_38404_4424.N1	05-JUL-2009 00:26:44	Bright	45.000	5	3Alp Lyr	0.033000	11000.	90	38404	No
4	GOM_TRA_1PNPDE20090705_003054_000000462080_00274_38404_4425.N1	05-JUL-2009 00:30:54	Bright	46.000	144	18Del Cyg	2.8600	11000.	92	38404	No
5	GOM_TRA_1PNPDE20090705_003803_000000442080_00274_38404_4426.N1	05-JUL-2009 00:38:03	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	38404	No
6	GOM_TRA_1PNPDE20090705_004532_000000442080_00274_38404_4427.N1	05-JUL-2009 00:45:32	Bright	44.000	74	11Bet Cas	2.2680	6600.0	88	38404	No
7	GOM_TRA_1PNPDE20090705_004717_000000372080_00274_38404_4428.N1	05-JUL-2009 00:47:17	Bright	37.000	110	37Del Cas	2.6780	8900.0	74	38404	No
8	GOM_TRA_1PNPDE20090705_005400_000000392080_00274_38404_4429.N1	05-JUL-2009 00:54:00	Bright	39.000	73	57Gam1And	2.2600	13100.	78	38404	No
9	GOM_TRA_1PNPDE20090705_005647_000000392080_00274_38404_4430.N1	05-JUL-2009 00:56:47	Twilight	39.000	173	4Bet Tri	3.0040	8900.0	78	38404	No
10	GOM_TRA_1PNPDE20090705_010118_000000442080_00274_38404_4431.N1	05-JUL-2009 01:01:18	Dark	43.500	50	13Alp Ari	2.0070	4250.0	87	38404	No

11	GOM_TRA_1PNPDE20090705_012613_000000492080_00275_38405_6538.N1	05-JUL-2009 01:26:13	Dark	48.500	84	Alp Phe	2.3970	4500.0	97	38405	No
12	GOM_TRA_1PNPDE20090705_013236_000000632080_00275_38405_6539.N1	05-JUL-2009 01:32:36	Straylight	62.500	63	Bet Gru	2.1500	2800.0	125	38405	No
13	GOM_TRA_1PNPDE20090705_013428_000000552080_00275_38405_6540.N1	05-JUL-2009 01:34:28	Straylight	55.000	31	Alp Gru	1.7340	15200.	110	38405	No
14	GOM_TRA_1PNPDE20090705_013730_000000592080_00275_38405_6541.N1	05-JUL-2009 01:37:30	Straylight	59.000	172	Gam Gru	3.0030	13100.	118	38405	No
15	GOM_TRA_1PNPDE20090705_014825_000000442080_00275_38405_6542.N1	05-JUL-2009 01:48:25	Bright	43.500	155	41Pi Sgr	2.9000	6600.0	87	38405	No
16	GOM_TRA_1PNPDE20090705_020018_000000472080_00275_38405_6543.N1	05-JUL-2009 02:00:18	Bright	47.000	168	17Zet Aql	2.9860	11000.	94	38405	No
17	GOM_TRA_1PNPDE20090705_020720_000000462080_00275_38405_6544.N1	05-JUL-2009 02:07:20	Bright	45.500	5	3Alp Lyr	0.033000	11000.	91	38405	No
18	GOM_TRA_1PNPDE20090705_021129_000000432080_00275_38405_6545.N1	05-JUL-2009 02:11:29	Bright	43.000	144	18Del Cyg	2.8600	11000.	86	38405	No
19	GOM_TRA_1PNPDE20090705_021839_000000432080_00275_38405_6546.N1	05-JUL-2009 02:18:39	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	38405	No
20	GOM_TRA_1PNPDE20090705_022607_000000442080_00275_38405_6547.N1	05-JUL-2009 02:26:07	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	38405	No
21	GOM_TRA_1PNPDE20090705_022753_000000372080_00275_38405_4902.N1	05-JUL-2009 02:27:53	Bright	37.000	110	37Del Cas	2.6780	8900.0	74	38405	Yes
22	GOM_TRA_1PNPDE20090705_023436_000000382080_00275_38405_4903.N1	05-JUL-2009 02:34:36	Bright	38.000	73	57Gam1And	2.2600	13100.	76	38405	No
23	GOM_TRA_1PNPDE20090705_023723_000000392080_00275_38405_4904.N1	05-JUL-2009 02:37:23	Tw_i_and_stray	39.000	173	4Bet Tri	3.0040	8900.0	78	38405	No
24	GOM_TRA_1PNPDE20090705_024155_000000442080_00275_38405_4905.N1	05-JUL-2009 02:41:55	Dark	43.500	50	13Alp Ari	2.0070	4250.0	87	38405	No
25	GOM_TRA_1PNPDE20090705_030650_000000492080_00276_38406_4906.N1	05-JUL-2009 03:06:50	Dark	49.000	84	Alp Phe	2.3970	4500.0	98	38406	No
26	GOM_TRA_1PNPDE20090705_031313_000000552080_00276_38406_4907.N1	05-JUL-2009 03:13:13	Straylight	54.500	63	Bet Gru	2.1500	2800.0	109	38406	No
27	GOM_TRA_1PNPDE20090705_031505_000000522080_00276_38406_4908.N1	05-JUL-2009 03:15:05	Straylight	51.500	31	Alp Gru	1.7340	15200.	103	38406	No
28	GOM_TRA_1PNPDE20090705_031807_000000572080_00276_38406_4909.N1	05-JUL-2009 03:18:07	Straylight	56.500	172	Gam Gru	3.0030	13100.	113	38406	No
29	GOM_TRA_1PNPDE20090705_032901_000000462080_00276_38406_4910.N1	05-JUL-2009 03:29:01	Bright	45.500	155	41Pi Sgr	2.9000	6600.0	91	38406	No
30	GOM_TRA_1PNPDE20090705_034053_000000492080_00276_38406_4911.N1	05-JUL-2009 03:40:53	Bright	49.000	168	17Zet Aql	2.9860	11000.	98	38406	No
31	GOM_TRA_1PNPDE20090705_034755_000000412080_00276_38406_4912.N1	05-JUL-2009 03:47:55	Bright	40.500	5	3Alp Lyr	0.033000	11000.	81	38406	No
32	GOM_TRA_1PNPDE20090705_035204_000000472080_00276_38406_4913.N1	05-JUL-2009 03:52:04	Bright	47.000	144	18Del Cyg	2.8600	11000.	94	38406	No
33	GOM_TRA_1PNPDE20090705_035914_000000462080_00276_38406_4914.N1	05-JUL-2009 03:59:14	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	38406	No
34	GOM_TRA_1PNPDE20090705_040642_000000502080_00276_38406_4780.N1	05-JUL-2009 04:06:42	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38406	No
35	GOM_TRA_1PNPDE20090705_040829_000000372080_00276_38406_4781.N1	05-JUL-2009 04:08:29	Bright	37.000	110	37Del Cas	2.6780	8900.0	74	38406	No
36	GOM_TRA_1PNPDE20090705_041512_000000402080_00276_38406_4782.N1	05-JUL-2009 04:15:12	Bright	40.000	73	57Gam1And	2.2600	13100.	80	38406	No
37	GOM_TRA_1PNPDE20090705_041759_000000392080_00276_38406_4783.N1	05-JUL-2009 04:17:59	Tw_i_and_stray	38.500	173	4Bet Tri	3.0040	8900.0	77	38406	No
38	GOM_TRA_1PNPDE20090705_042231_000000442080_00276_38406_4784.N1	05-JUL-2009 04:22:31	Dark	44.000	50	13Alp Ari	2.0070	4250.0	88	38406	No
39	GOM_TRA_1PNPDE20090705_044727_000000612080_00277_38407_4785.N1	05-JUL-2009 04:47:27	Dark	61.000	84	Alp Phe	2.3970	4500.0	122	38407	No
40	GOM_TRA_1PNPDE20090705_045350_000000532080_00277_38407_4786.N1	05-JUL-2009 04:53:50	Straylight	52.500	63	Bet Gru	2.1500	2800.0	105	38407	No
41	GOM_TRA_1PNPDE20090705_045542_000000502080_00277_38407_4787.N1	05-JUL-2009 04:55:42	Straylight	50.000	31	Alp Gru	1.7340	15200.	100	38407	No
42	GOM_TRA_1PNPDE20090705_045844_000000552080_00277_38407_4788.N1	05-JUL-2009 04:58:44	Straylight	55.000	172	Gam Gru	3.0030	13100.	110	38407	No
43	GOM_TRA_1PNPDE20090705_050938_000000422080_00277_38407_4789.N1	05-JUL-2009 05:09:38	Bright	41.500	155	41Pi Sgr	2.9000	6600.0	83	38407	No
44	GOM_TRA_1PNPDE20090705_052129_000000662080_00277_38407_4790.N1	05-JUL-2009 05:21:29	Bright	66.000	168	17Zet Aql	2.9860	11000.	132	38407	No
45	GOM_TRA_1PNPDE20090705_052831_000000392080_00277_38407_4791.N1	05-JUL-2009 05:28:31	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	38407	No
46	GOM_TRA_1PNPDE20090705_053239_000000452080_00277_38407_4792.N1	05-JUL-2009 05:32:39	Bright	44.500	144	18Del Cyg	2.8600	11000.	89	38407	No
47	GOM_TRA_1PNPDE20090705_053949_000000442080_00277_38407_4793.N1	05-JUL-2009 05:39:49	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	38407	No
48	GOM_TRA_1PNPDE20090705_054718_000000422080_00277_38407_5002.N1	05-JUL-2009 05:47:18	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	38407	No
49	GOM_TRA_1PNPDE20090705_054904_000000362080_00277_38407_5003.N1	05-JUL-2009 05:49:04	Bright	36.000	110	37Del Cas	2.6780	8900.0	72	38407	No
50	GOM_TRA_1PNPDE20090705_055548_000000372080_00277_38407_5004.N1	05-JUL-2009 05:55:48	Bright	37.000	73	57Gam1And	2.2600	13100.	74	38407	No
51	GOM_TRA_1PNPDE20090705_055835_000000382080_00277_38407_5005.N1	05-JUL-2009 05:58:35	Tw_i_and_stray	38.000	173	4Bet Tri	3.0040	8900.0	76	38407	No
52	GOM_TRA_1PNPDE20090705_060307_000000442080_00277_38407_5006.N1	05-JUL-2009 06:03:07	Dark	43.500	50	13Alp Ari	2.0070	4250.0	87	38407	No
53	GOM_TRA_1PNPDE20090705_062804_000000522080_00278_38408_5007.N1	05-JUL-2009 06:28:04	Dark	51.500	84	Alp Phe	2.3970	4500.0	103	38408	No
54	GOM_TRA_1PNPDE20090705_063427_000000532080_00278_38408_5008.N1	05-JUL-2009 06:34:27	Straylight	53.000	63	Bet Gru	2.1500	2800.0	106	38408	No
55	GOM_TRA_1PNPDE20090705_063618_000000492080_00278_38408_5009.N1	05-JUL-2009 06:36:18	Straylight	49.000	31	Alp Gru	1.7340	15200.	98	38408	No
56	GOM_TRA_1PNPDE20090705_063921_000000552080_00278_38408_5010.N1	05-JUL-2009 06:39:21	Straylight	55.000	172	Gam Gru	3.0030	13100.	110	38408	No
57	GOM_TRA_1PNPDE20090705_065014_000000402080_00278_38408_5011.N1	05-JUL-2009 06:50:14	Bright	40.000	155	41Pi Sgr	2.9000	6600.0	80	38408	No
58	GOM_TRA_1PNPDE20090705_070204_000000462080_00278_38408_5012.N1	05-JUL-2009 07:02:04	Bright	45.500	168	17Zet Aql	2.9860	11000.	91	38408	No
59	GOM_TRA_1PNPDE20090705_070907_000000442080_00278_38408_5013.N1	05-JUL-2009 07:09:07	Bright	44.000	5	3Alp Lyr	0.033000	11000.	88	38408	No
60	GOM_TRA_1PNPDE20090705_071314_000000482080_00278_38408_5014.N1	05-JUL-2009 07:13:14	Bright	47.500	144	18Del Cyg	2.8600	11000.	95	38408	No
61	GOM_TRA_1PNPDE20090705_072025_000000442080_00278_38408_5015.N1	05-JUL-2009 07:20:25	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	38408	No
62	GOM_TRA_1PNPDE20090705_072754_000000422080_00278_38408_5016.N1	05-JUL-2009 07:27:54	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	38408	No
63	GOM_TRA_1PNPDE20090705_200416_000000552080_00286_38416_5336.N1	05-JUL-2009 20:04:16	Straylight	54.500	172	Gam Gru	3.0030	13100.	109	38416	No
64	GOM_TRA_1PNPDE20090705_202649_000000432080_00286_38416_5337.N1	05-JUL-2009 20:26:49	Bright	43.000	168	17Zet Aql	2.9860	11000.	86	38416	No
65	GOM_TRA_1PNPDE20090705_203351_000000392080_00286_38416_5338.N1	05-JUL-2009 20:33:51	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	38416	No
66	GOM_TRA_1PNPDE20090705_203756_000000482080_00286_38416_5339.N1	05-JUL-2009 20:37:56	Bright	48.000	144	18Del Cyg	2.8600	11000.	96	38416	No
67	GOM_TRA_1PNPDE20090705_204507_000000412080_00286_38416_5340.N1	05-JUL-2009 20:45:07	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	38416	No
68	GOM_TRA_1PNPDE20090705_205236_000000422080_00286_38416_5341.N1	05-JUL-2009 20:52:36	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	38416	No
69	GOM_TRA_1PNPDE20090705_205424_000000372080_00286_38416_5342.N1	05-JUL-2009 20:54:24	Bright	36.500	110	37Del Cas	2.6780	8900.0	73	38416	No



70	GOM_TRA_1PNPDE20090705_210110_000000382080_00286_38416_5343.N1	05-JUL-2009 21:01:10	Bright	38.000	73	57Gam1And	2.2600	13100.	76	38416	No
71	GOM_TRA_1PNPDE20090705_210359_000000392080_00286_38416_5344.N1	05-JUL-2009 21:03:59	Twilight_stray	39.000	173	4Bet Tri	3.0040	8900.0	78	38416	No
72	GOM_TRA_1PNPDE20090705_210834_000000422080_00286_38416_5345.N1	05-JUL-2009 21:08:34	Dark	42.000	50	13Alp Ari	2.0070	4250.0	84	38416	No
73	GOM_TRA_1PNPDE20090705_213337_000000522080_00287_38417_5467.N1	05-JUL-2009 21:33:37	Dark	52.000	84	Alp Phe	2.3970	4500.0	104	38417	No
74	GOM_TRA_1PNPDE20090705_213958_000000492080_00287_38417_5468.N1	05-JUL-2009 21:39:58	Straylight	49.000	63	Bet Gru	2.1500	2800.0	98	38417	No
75	GOM_TRA_1PNPDE20090705_214149_000000472080_00287_38417_5469.N1	05-JUL-2009 21:41:49	Straylight	47.000	31	Alp Gru	1.7340	15200.	94	38417	No
76	GOM_TRA_1PNPDE20090705_214453_000000542080_00287_38417_5470.N1	05-JUL-2009 21:44:53	Straylight	54.000	172	Gam Gru	3.0030	13100.	108	38417	No
77	GOM_TRA_1PNPDE20090705_220724_000000452080_00287_38417_5471.N1	05-JUL-2009 22:07:24	Bright	44.500	168	17Zet Aql	2.9860	11000.	89	38417	No
78	GOM_TRA_1PNPDE20090705_221426_000000392080_00287_38417_5472.N1	05-JUL-2009 22:14:26	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	38417	No
79	GOM_TRA_1PNPDE20090705_221831_000000482080_00287_38417_5473.N1	05-JUL-2009 22:18:31	Bright	47.500	144	18Del Cyg	2.8600	11000.	95	38417	No
80	GOM_TRA_1PNPDE20090705_222542_000000452080_00287_38417_5474.N1	05-JUL-2009 22:25:42	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	38417	No
81	GOM_TRA_1PNPDE20090705_223312_000000432080_00287_38417_5475.N1	05-JUL-2009 22:33:12	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	38417	No
82	GOM_TRA_1PNPDE20090705_223500_000000372080_00287_38417_5476.N1	05-JUL-2009 22:35:00	Bright	37.000	110	37Del Cas	2.6780	8900.0	74	38417	No
83	GOM_TRA_1PNPDE20090705_224146_000000392080_00287_38417_5477.N1	05-JUL-2009 22:41:46	Bright	38.500	73	57Gam1And	2.2600	13100.	77	38417	No
84	GOM_TRA_1PNPDE20090705_224435_000000392080_00287_38417_5478.N1	05-JUL-2009 22:44:35	Twilight_stray	38.500	173	4Bet Tri	3.0040	8900.0	77	38417	No
85	GOM_TRA_1PNPDE20090705_224911_000000432080_00287_38417_5479.N1	05-JUL-2009 22:49:11	Dark	43.000	50	13Alp Ari	2.0070	4250.0	86	38417	No
86	GOM_TRA_1PNPDE20090705_231413_000000512080_00288_38418_5611.N1	05-JUL-2009 23:14:13	Dark	51.000	84	Alp Phe	2.3970	4500.0	102	38418	No
87	GOM_TRA_1PNPDE20090705_232035_000000552080_00288_38418_5612.N1	05-JUL-2009 23:20:35	Straylight	55.000	63	Bet Gru	2.1500	2800.0	110	38418	No
88	GOM_TRA_1PNPDE20090705_232226_000000482080_00288_38418_5613.N1	05-JUL-2009 23:22:26	Straylight	48.000	31	Alp Gru	1.7340	15200.	96	38418	No
89	GOM_TRA_1PNPDE20090705_232530_000000562080_00288_38418_5614.N1	05-JUL-2009 23:25:30	Straylight	56.000	172	Gam Gru	3.0030	13100.	112	38418	No
90	GOM_TRA_1PNPDE20090705_234759_000000442080_00288_38418_5615.N1	05-JUL-2009 23:47:59	Bright	43.500	168	17Zet Aql	2.9860	11000.	87	38418	No
91	GOM_TRA_1PNPDE20090705_235502_000000452080_00288_38418_5616.N1	05-JUL-2009 23:55:02	Bright	44.500	5	3Alp Lyr	0.033000	11000.	89	38418	No
92	GOM_TRA_1PNPDE20090705_235906_000000492080_00288_38418_5617.N1	05-JUL-2009 23:59:06	Bright	49.000	144	18Del Cyg	2.8600	11000.	98	38418	No

### 3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



#### 4. Overview of dark signal processing per product

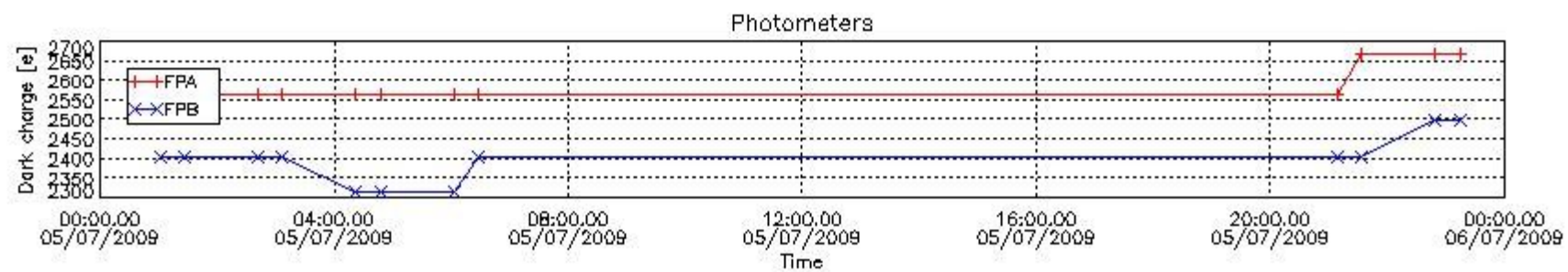
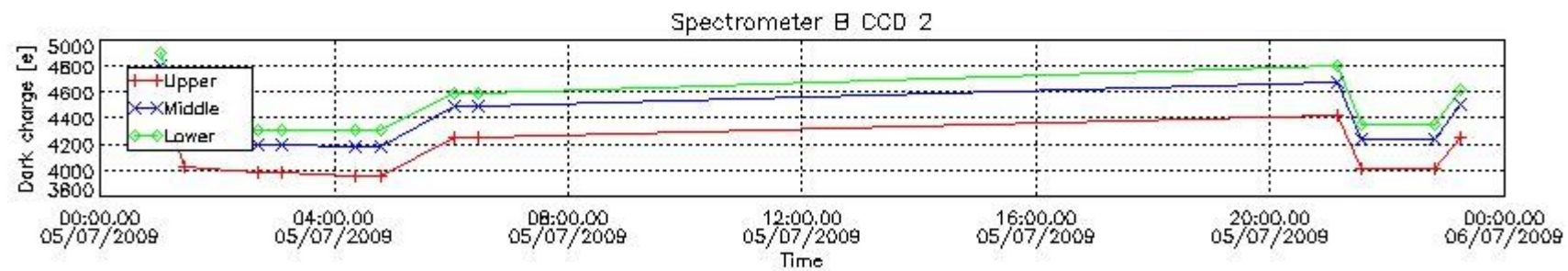
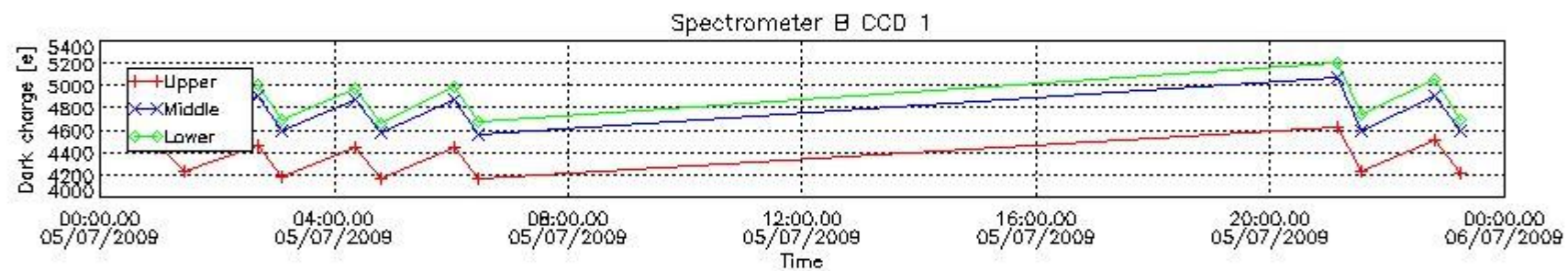
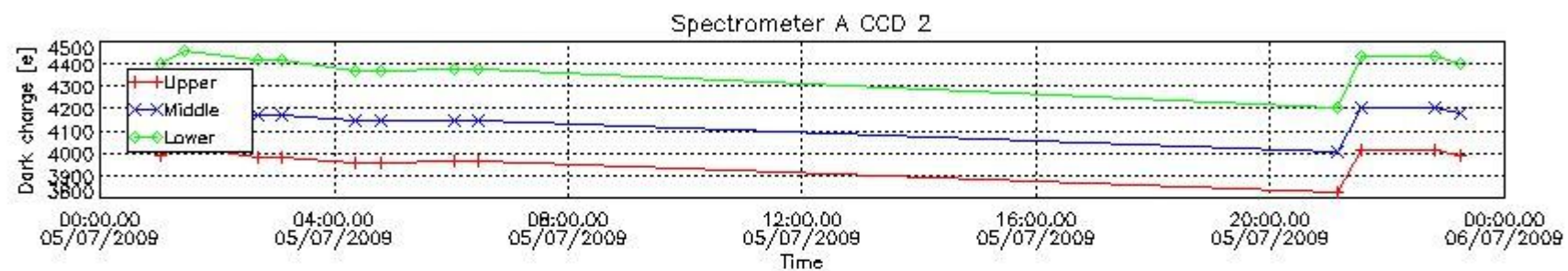
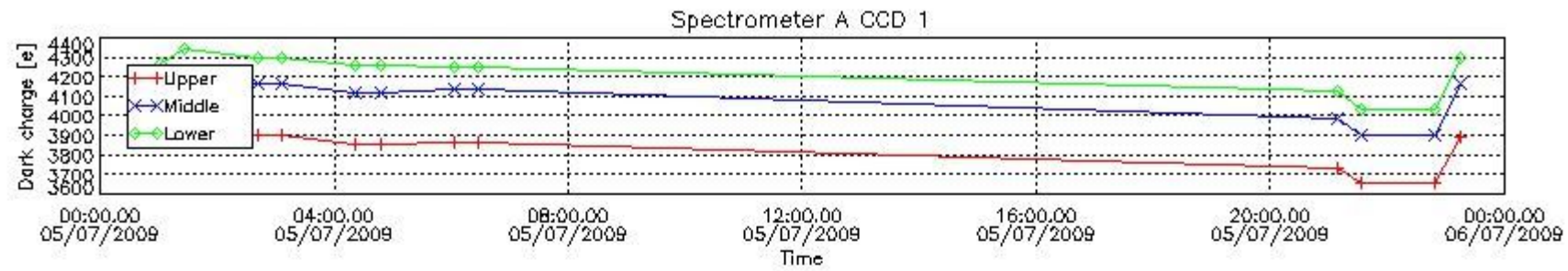
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090705_200416_000000552080_00286_38416_5336.N1	DC map used
GOM_TRA_1PNPDE20090705_202649_000000432080_00286_38416_5337.N1	DC map used
GOM_TRA_1PNPDE20090705_203351_000000392080_00286_38416_5338.N1	DC map used
GOM_TRA_1PNPDE20090705_203756_000000482080_00286_38416_5339.N1	DC map used
GOM_TRA_1PNPDE20090705_204507_000000412080_00286_38416_5340.N1	DC map used
GOM_TRA_1PNPDE20090705_205236_000000422080_00286_38416_5341.N1	DC map used
GOM_TRA_1PNPDE20090705_205424_000000372080_00286_38416_5342.N1	DC map used
GOM_TRA_1PNPDE20090705_210110_000000382080_00286_38416_5343.N1	DC map used
GOM_TRA_1PNPDE20090705_210359_000000392080_00286_38416_5344.N1	DC map used
GOM_TRA_1PNPDE20090705_210834_000000422080_00286_38416_5345.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

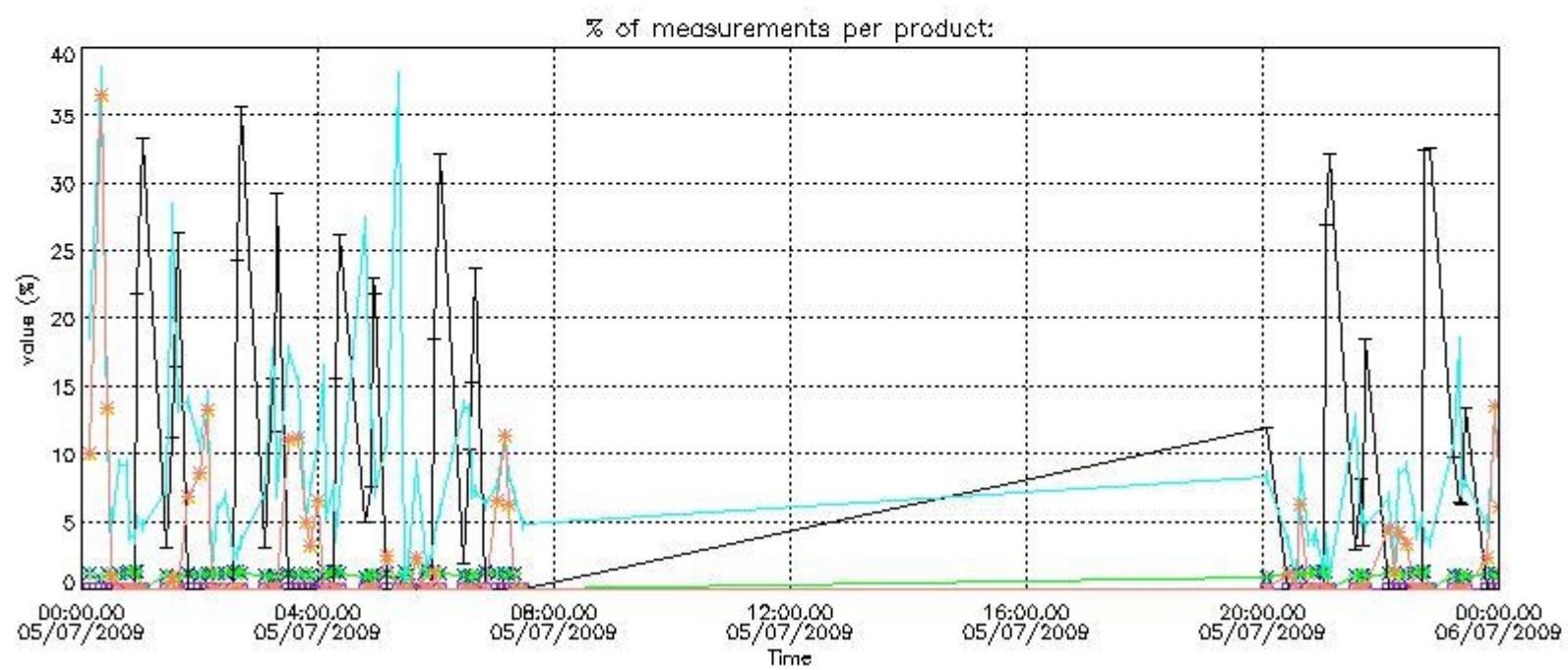
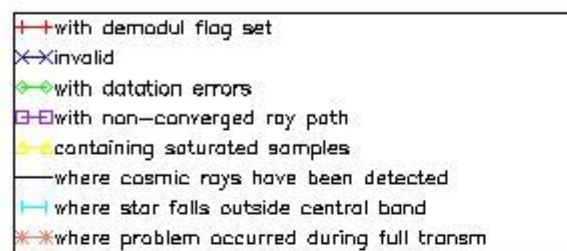
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

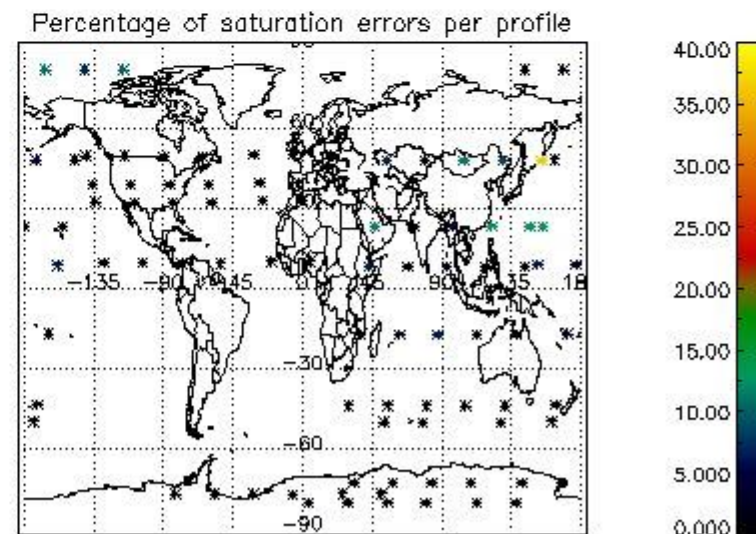
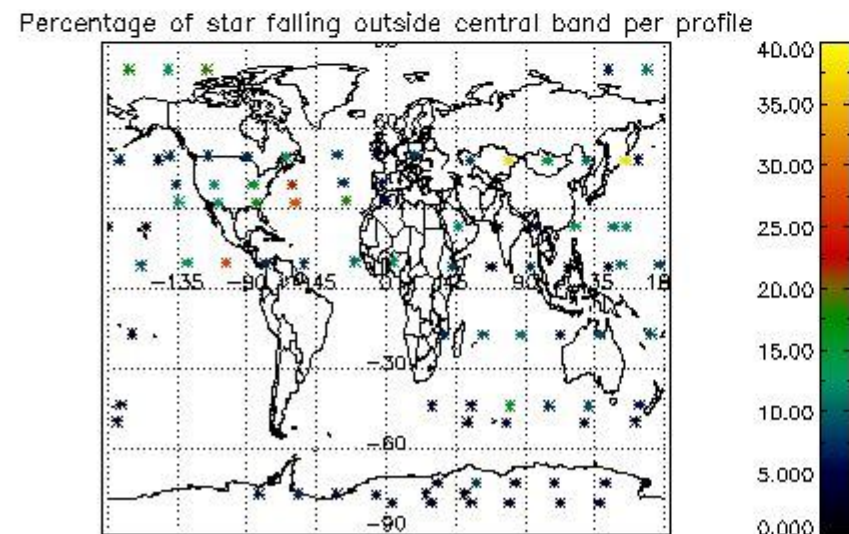
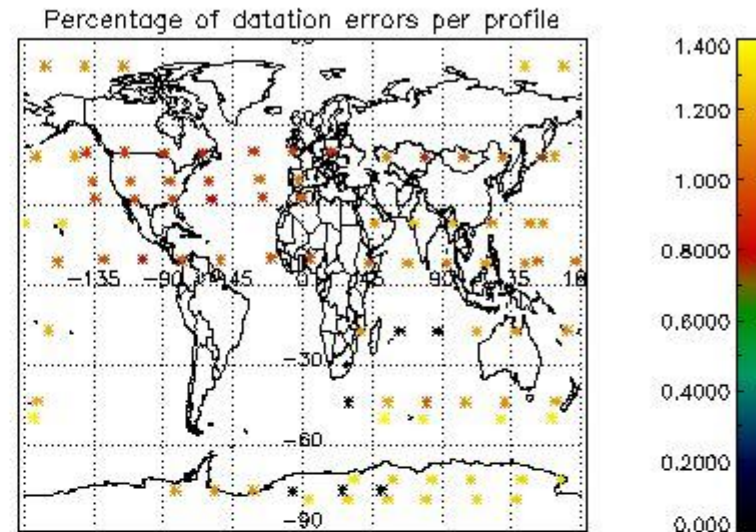
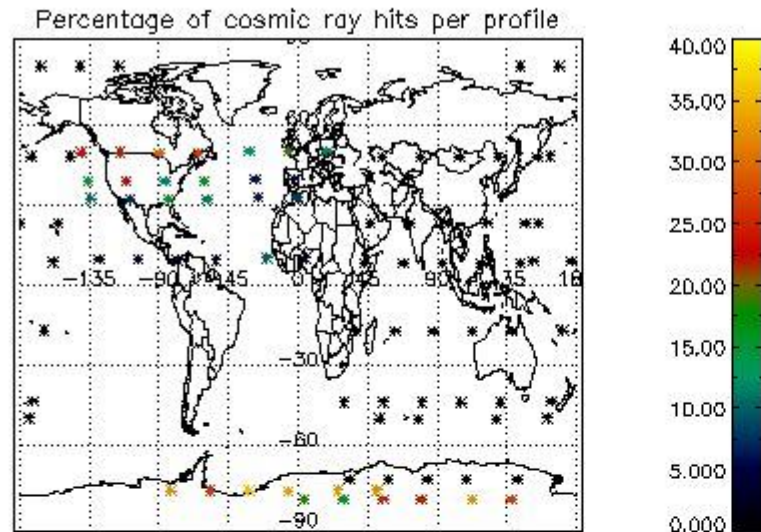


At least one measurement with demodulation flag set:	25.2747 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 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)

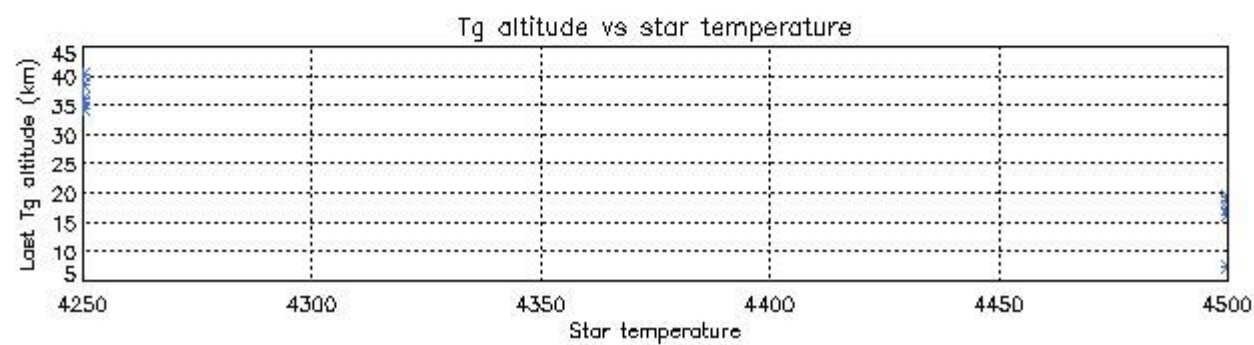
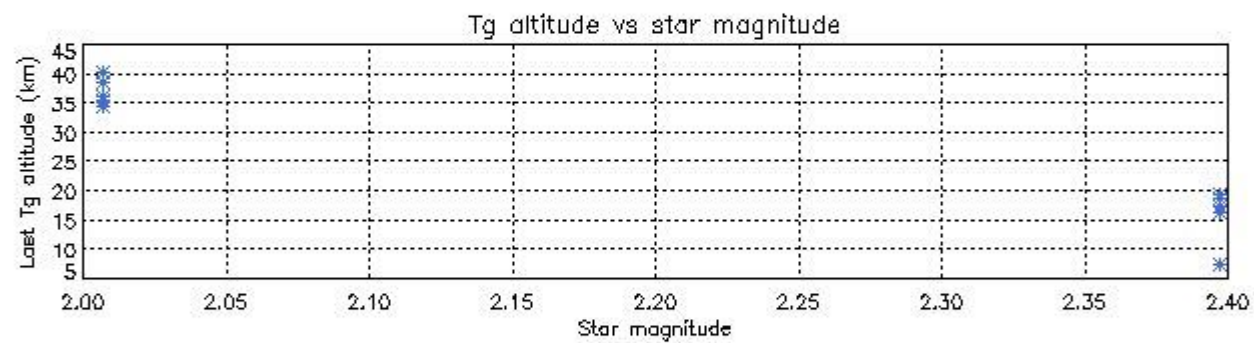
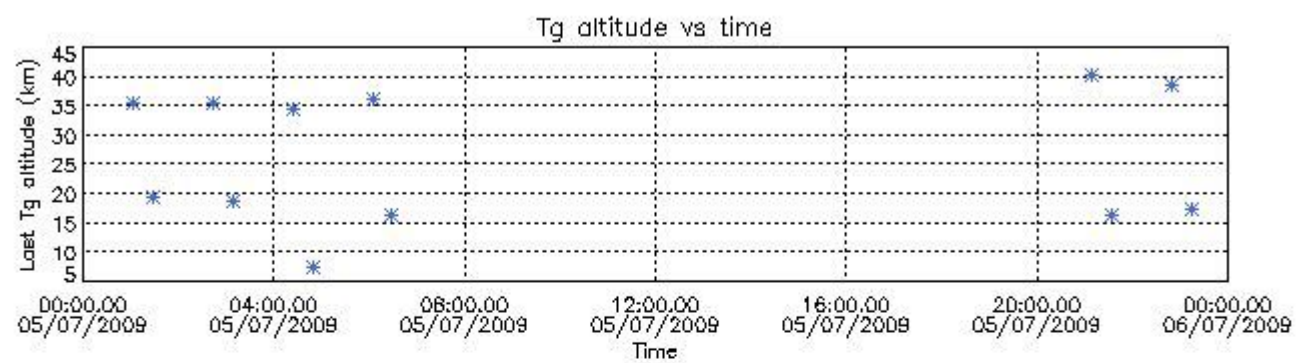
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	26.251	24.629	NaN
St. deviation:	11.336	8.3883	NaN
Maximum:	40.376	41.407	NaN
Minimum:	7.2731	3.3072	NaN
Number of data:	12.000	54.000	NaN

### 6.2 Plot for DARK limb products

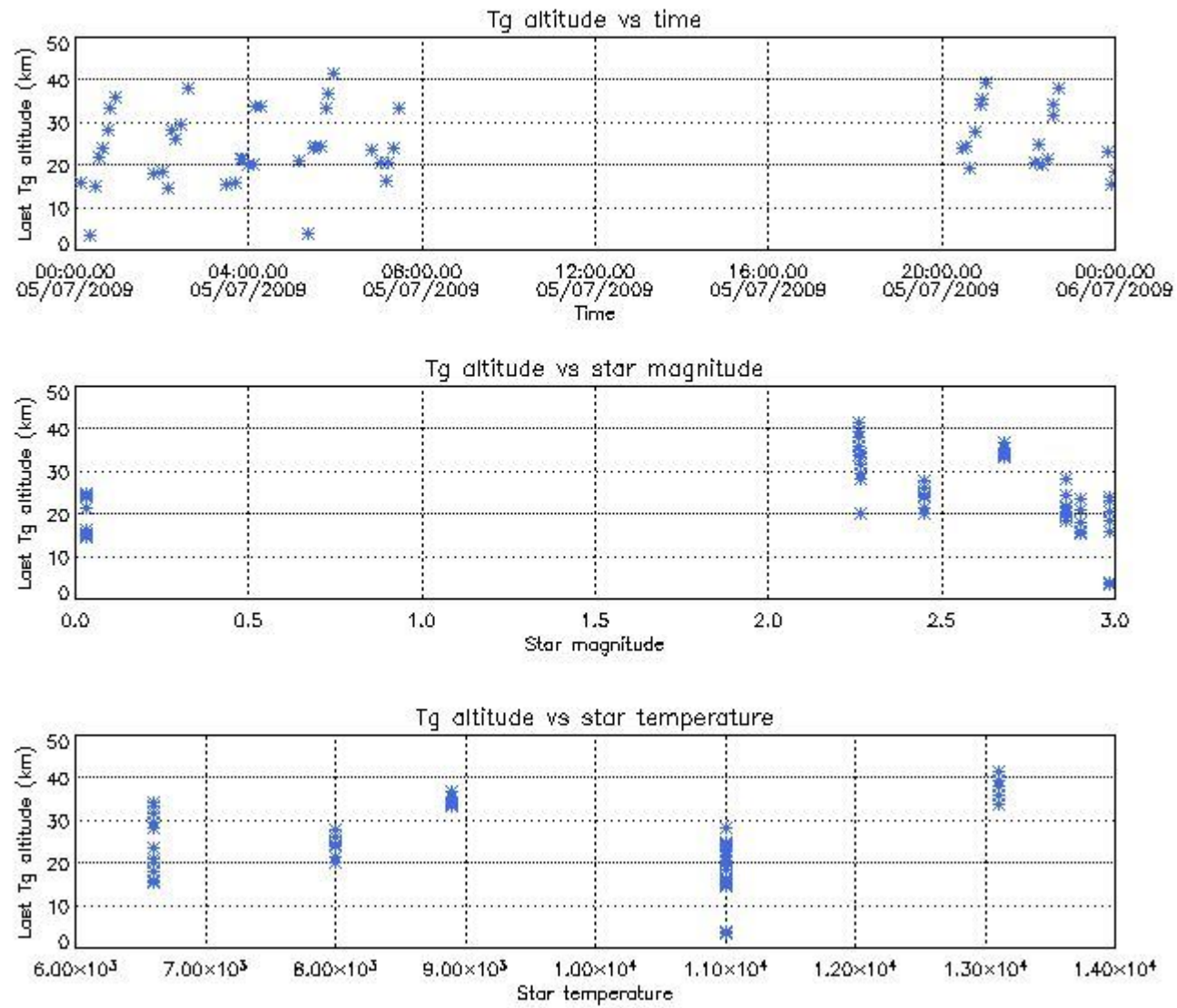


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

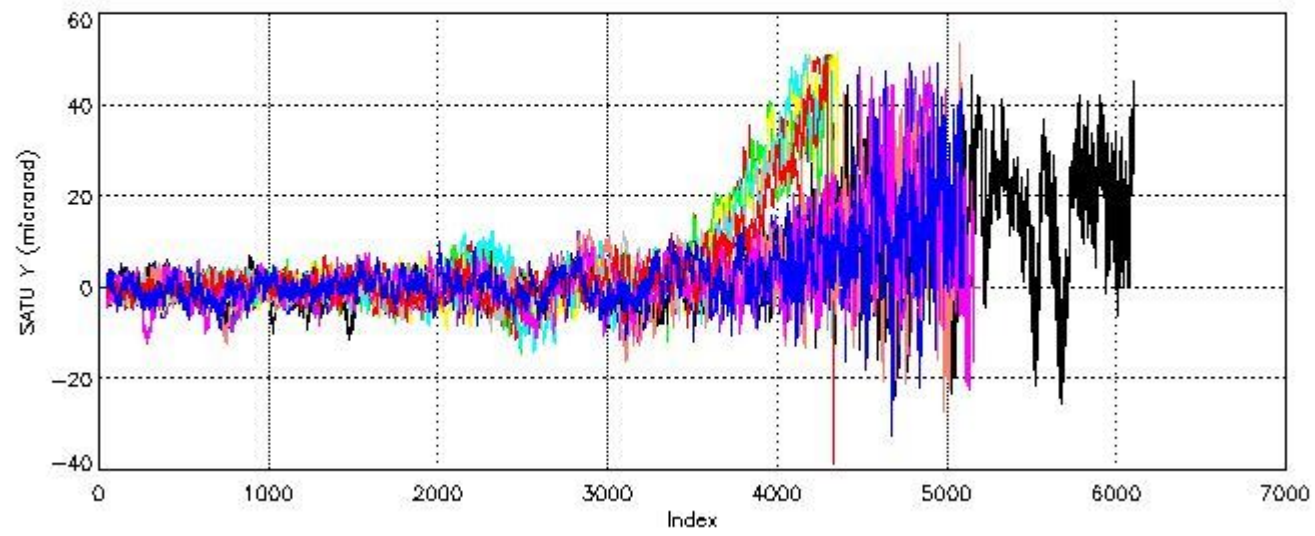
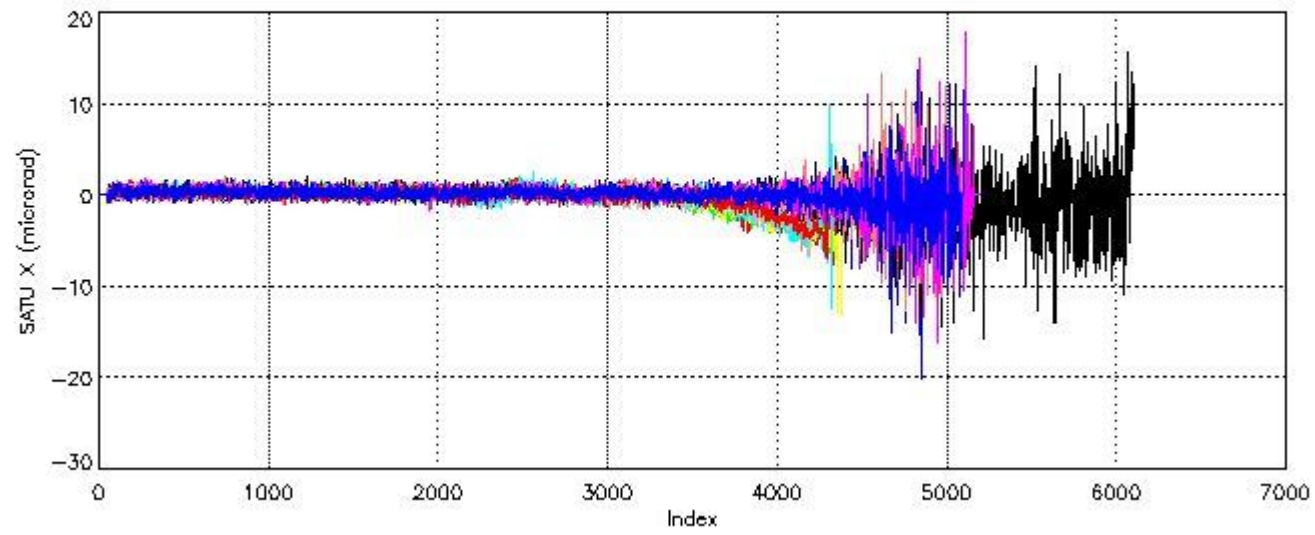


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.31391	-0.53827	0.28982	-0.78510
St. deviation:	0.38274	2.1508	1.0082	3.0334
Maximum:	2.0000	7.0000	7.3000	12.900
Minimum:	-1.0000	-12.400	-6.5000	-14.600



Number of data:	14450.	14450.	56750.	56750.
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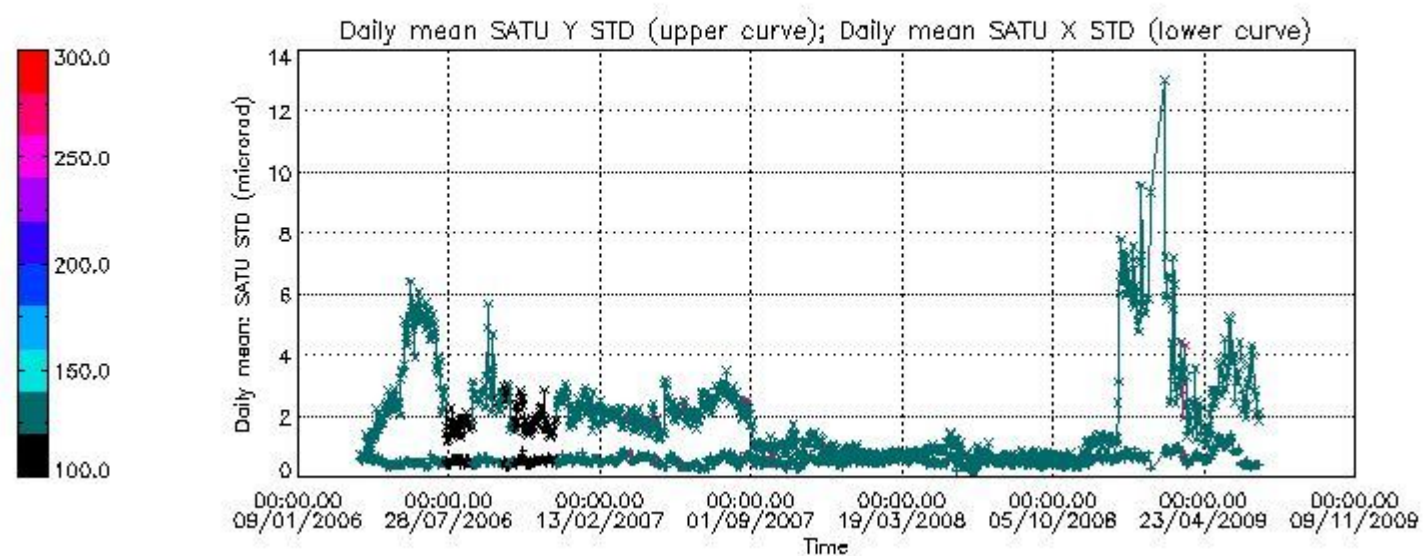
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

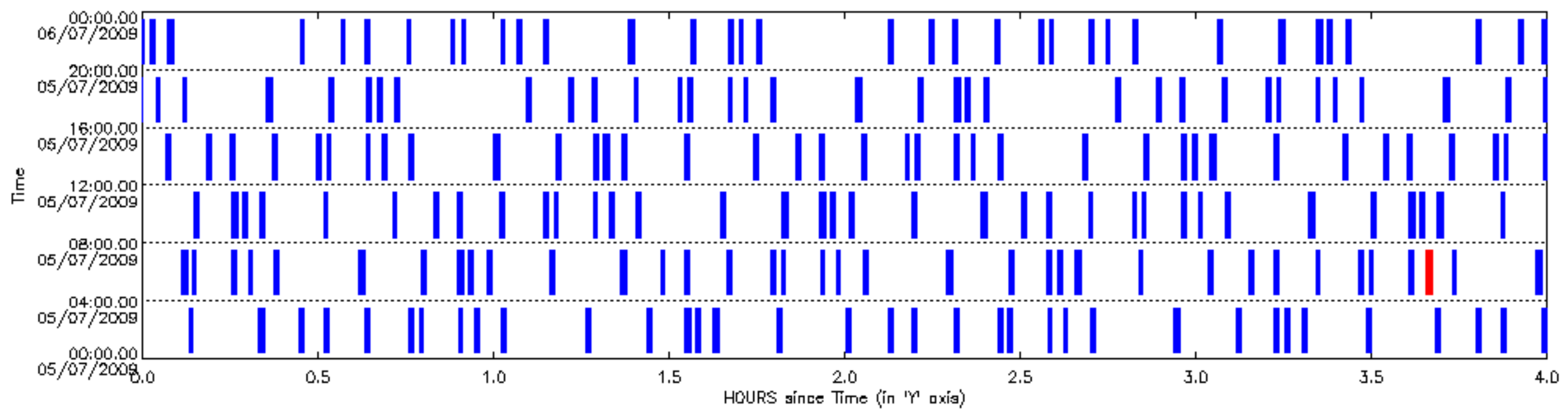
Lower curve: STD of SATU X axis

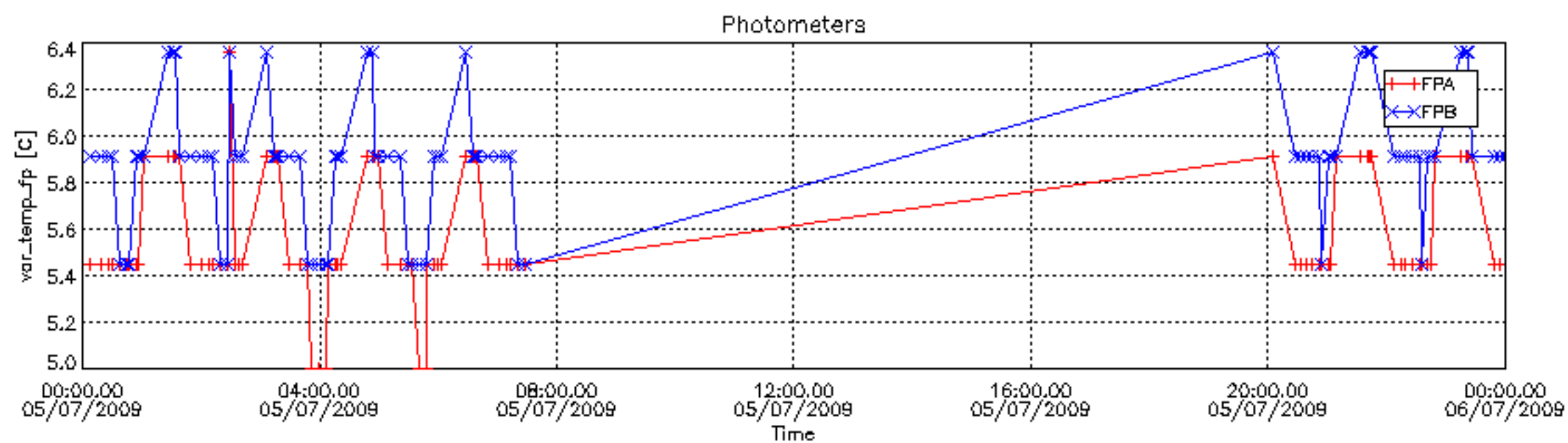
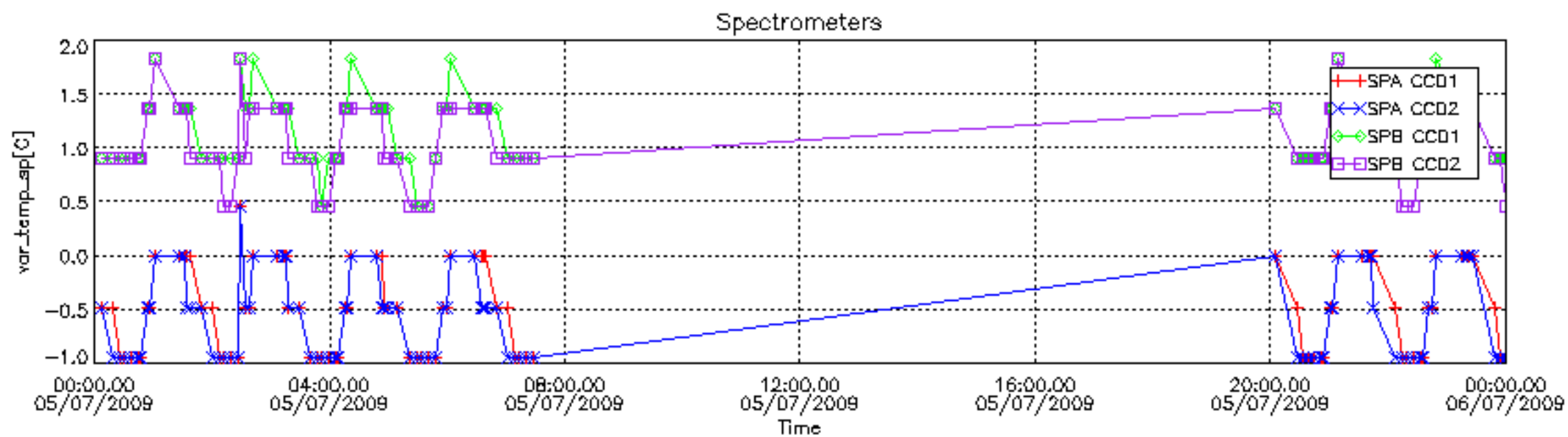


### 8. Auxiliary Data Files used for the production reported in section 2.4

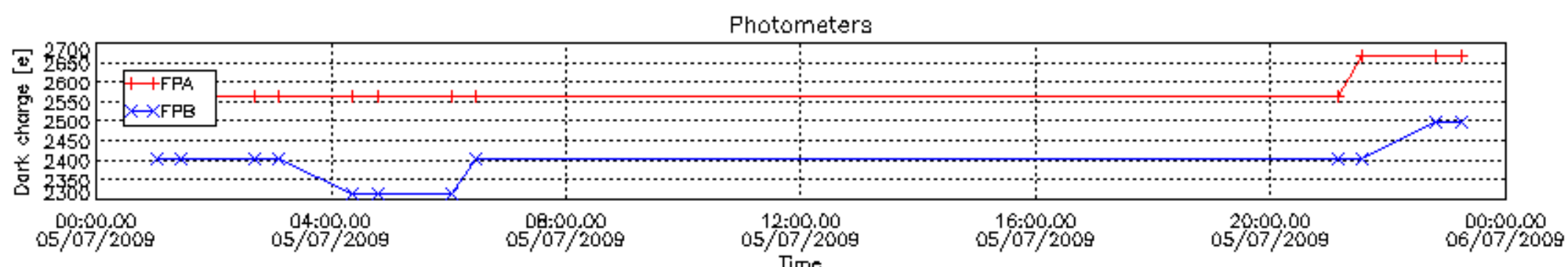
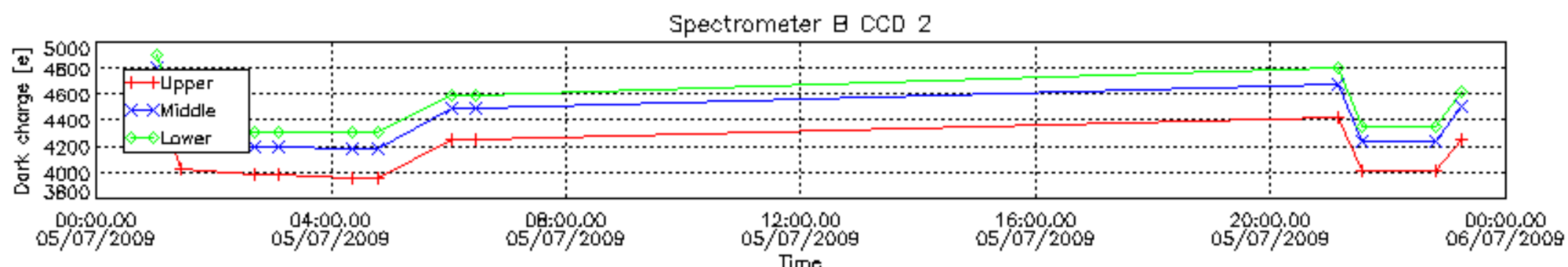
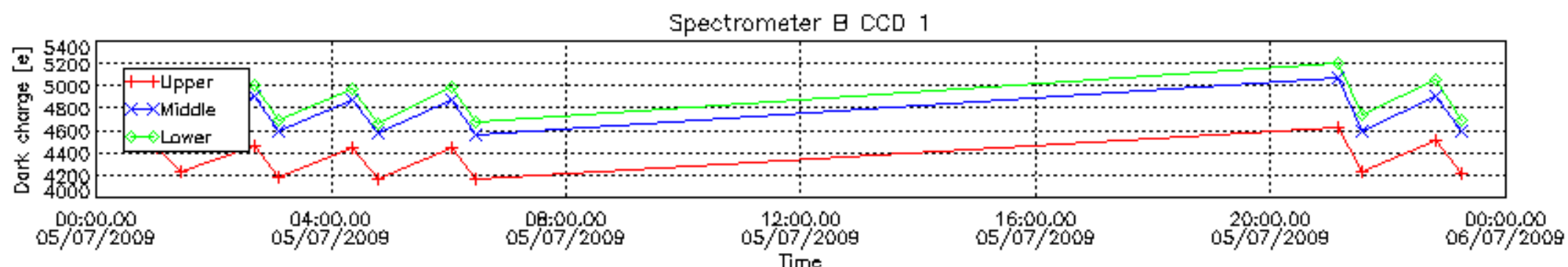
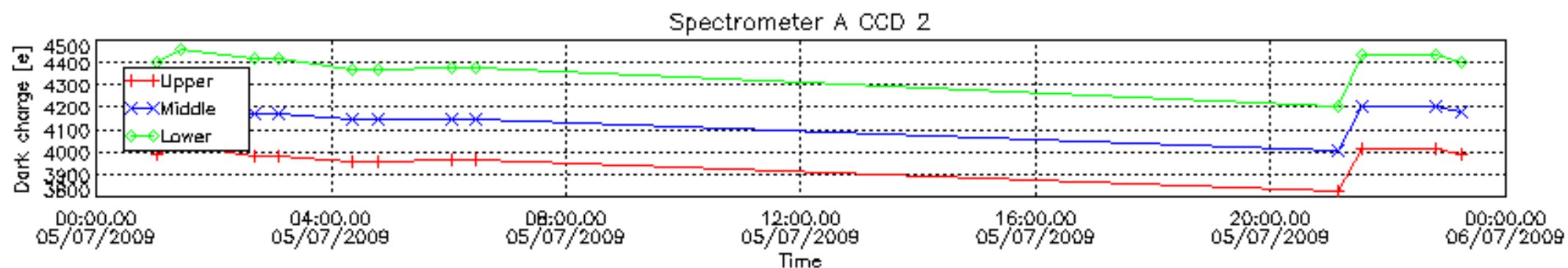
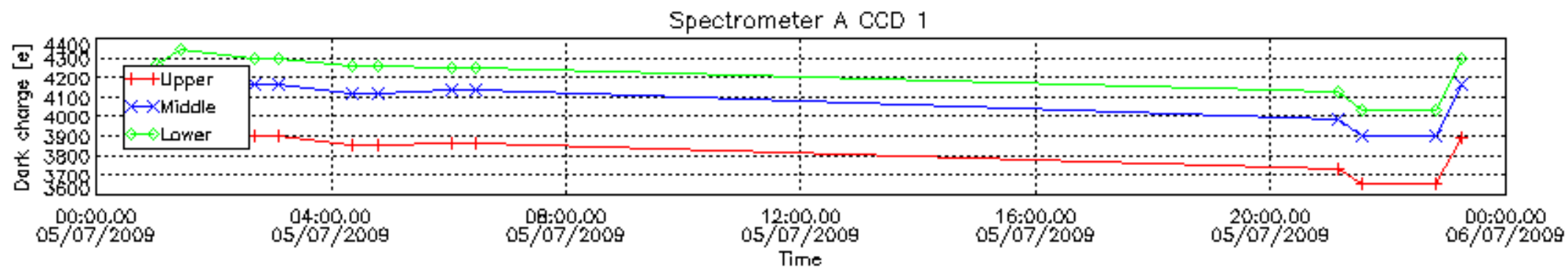
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

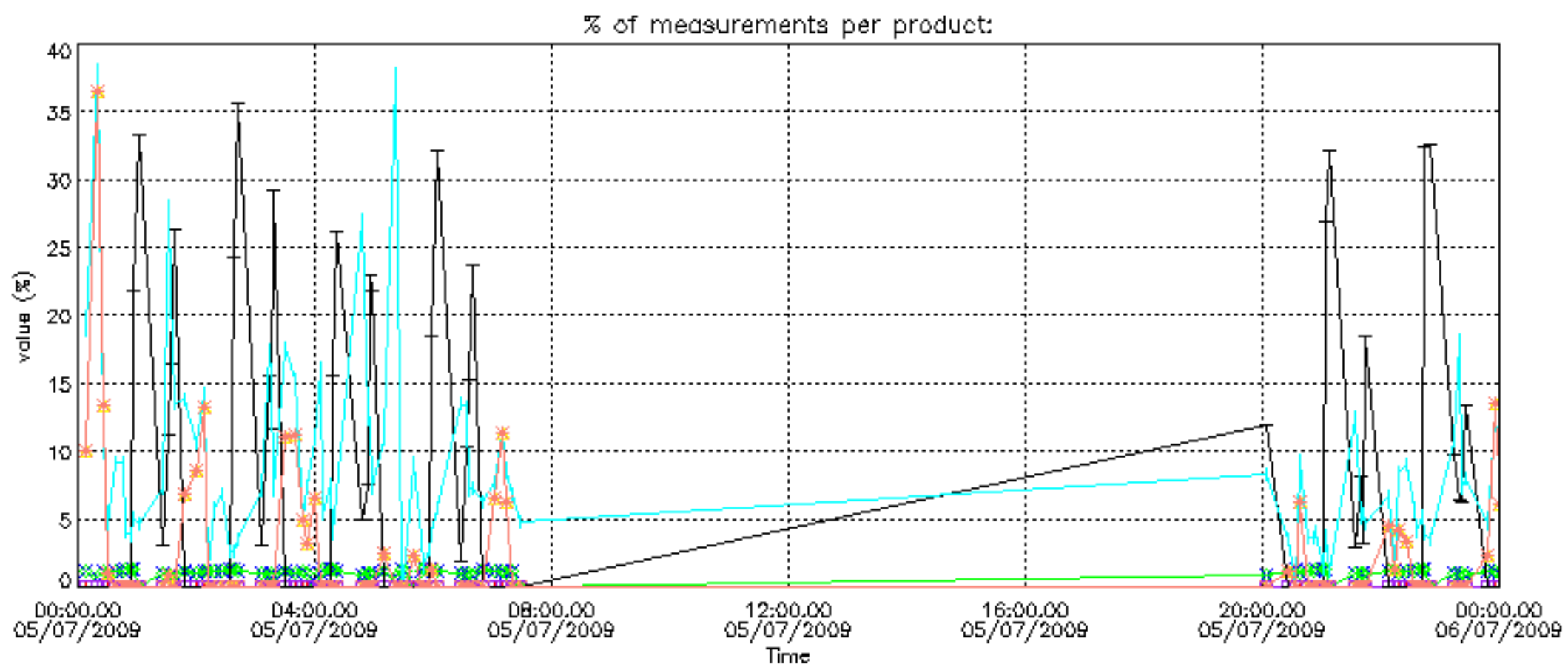
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	05-JUL-2009 00:07:49
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090701_074759_20090629_000000_20100101_000000	1	05-JUL-2009 00:07:49
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	05-JUL-2009 00:07:49
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-JUL-2009 00:07:49
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	05-JUL-2009 00:07:49
ECMWF_FILE	AUX_ECF_AXNECM20090707_142113_20090704_210000_20090705_090000	1	05-JUL-2009 00:07:49
ECMWF_FILE	AUX_ECF_AXNECM20090704_182111_20090705_030000_20090705_150000	34	05-JUL-2009 04:06:42
ECMWF_FILE	AUX_ECF_AXNECM20090705_104117_20090705_150000_20090706_030000	63	05-JUL-2009 20:04:16
ECMWF_FILE	AUX_ECF_AXNECM20090705_104118_20090705_210000_20090706_090000	73	05-JUL-2009 21:33:37
OPTIONAL_ECMWF_FILE	MISSING	1	05-JUL-2009 00:07:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090704_232738_000057382080_00273_38403_8286.N1	1	05-JUL-2009 00:07:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090705_010835_000044632080_00274_38404_8287.N1	11	05-JUL-2009 01:26:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090705_022258_000057382080_00275_38405_8288.N1	21	05-JUL-2009 02:27:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090705_040355_000057382080_00276_38406_8289.N1	48	05-JUL-2009 05:47:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090705_200017_000041442080_00286_38416_8291.N1	63	05-JUL-2009 20:04:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090705_211440_000057382080_00286_38416_8292.N1	86	05-JUL-2009 23:14:13



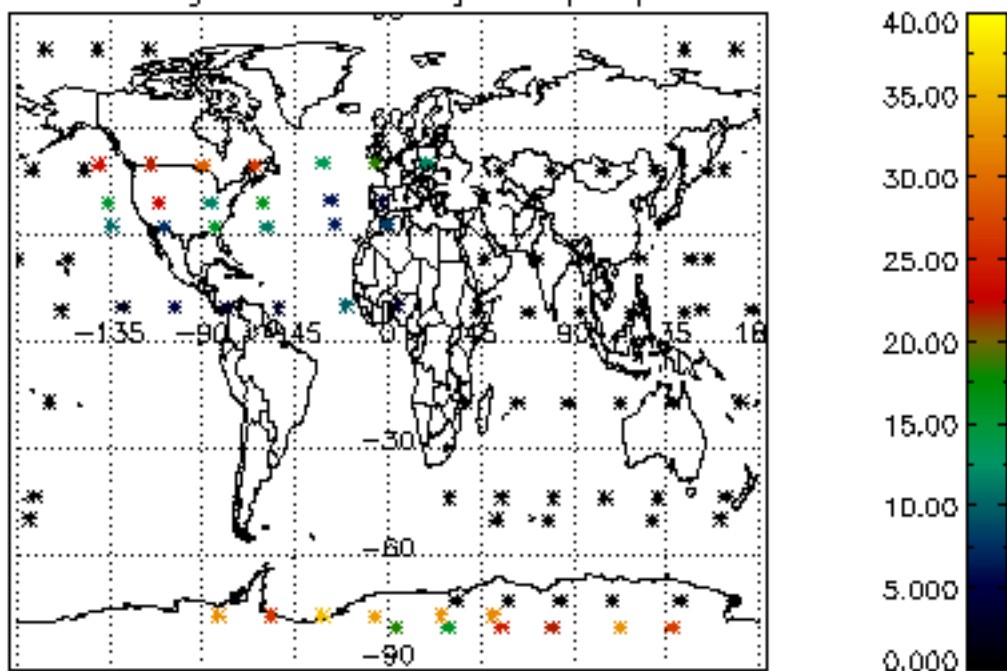




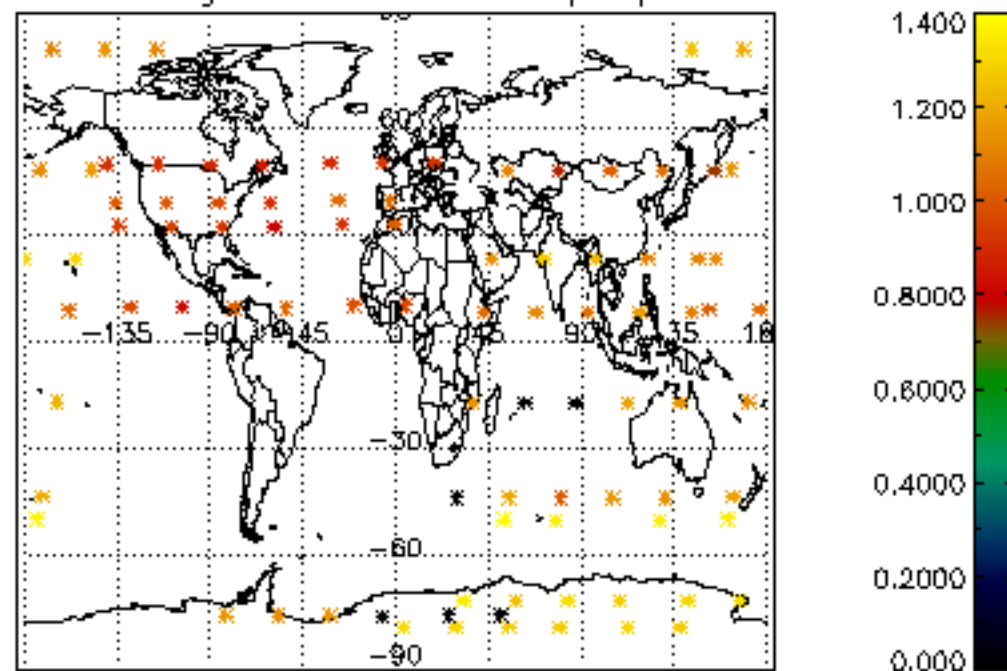




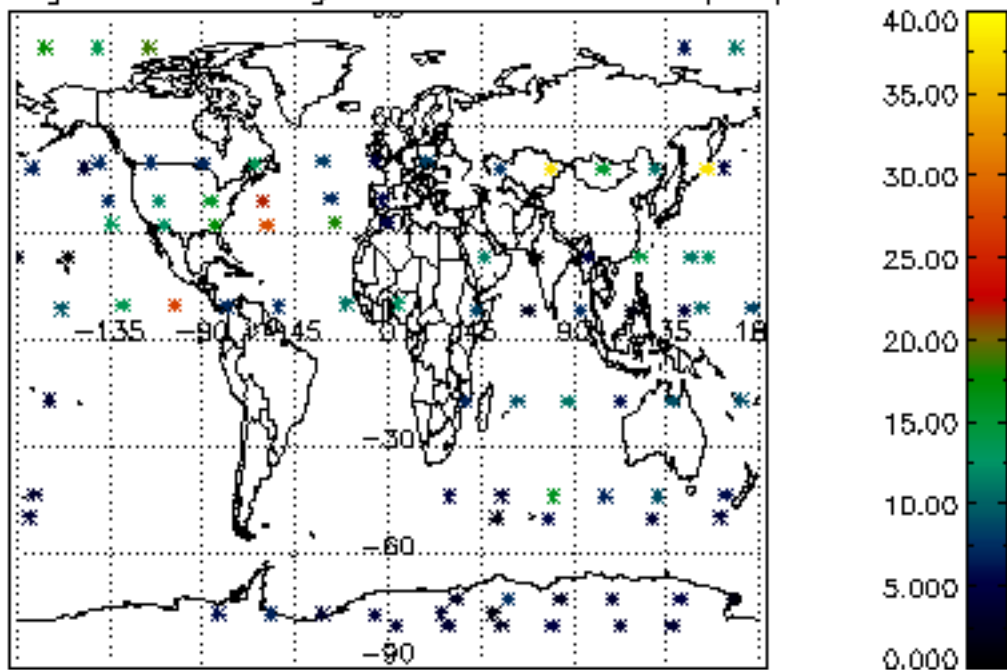
Percentage of cosmic ray hits per profile



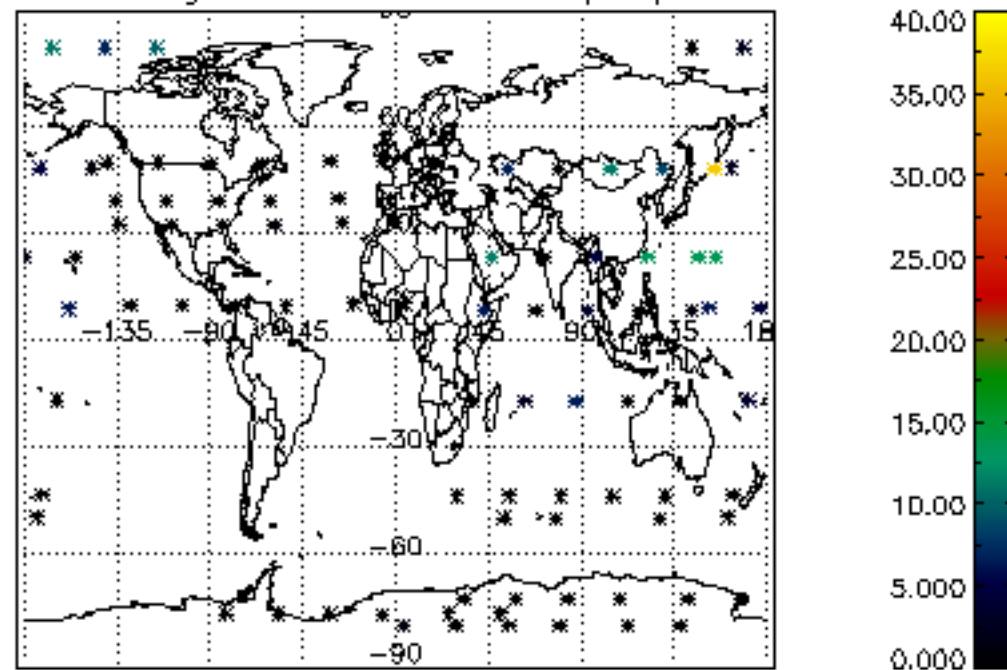
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



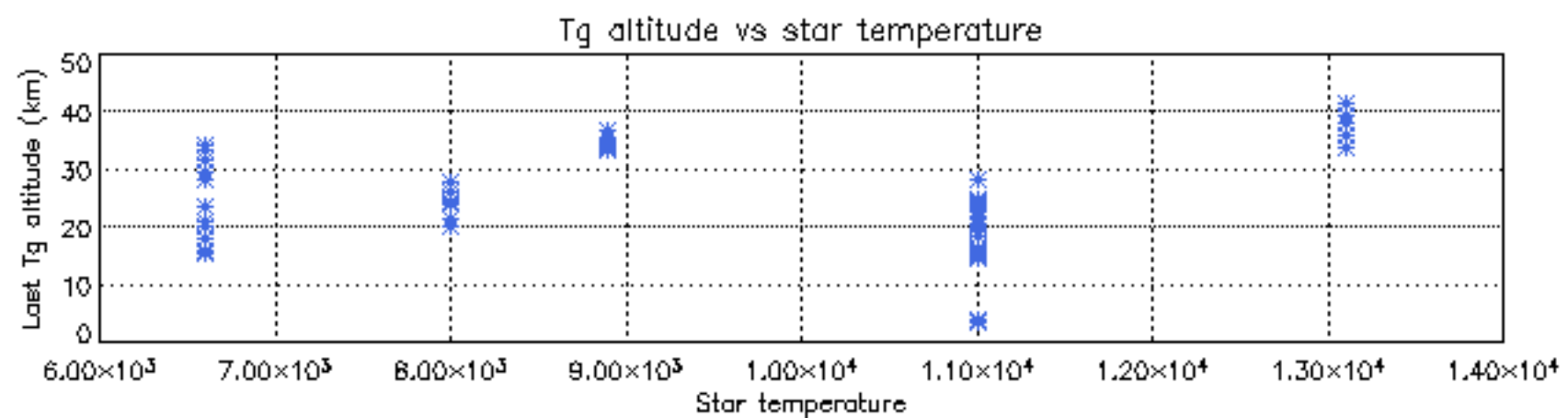
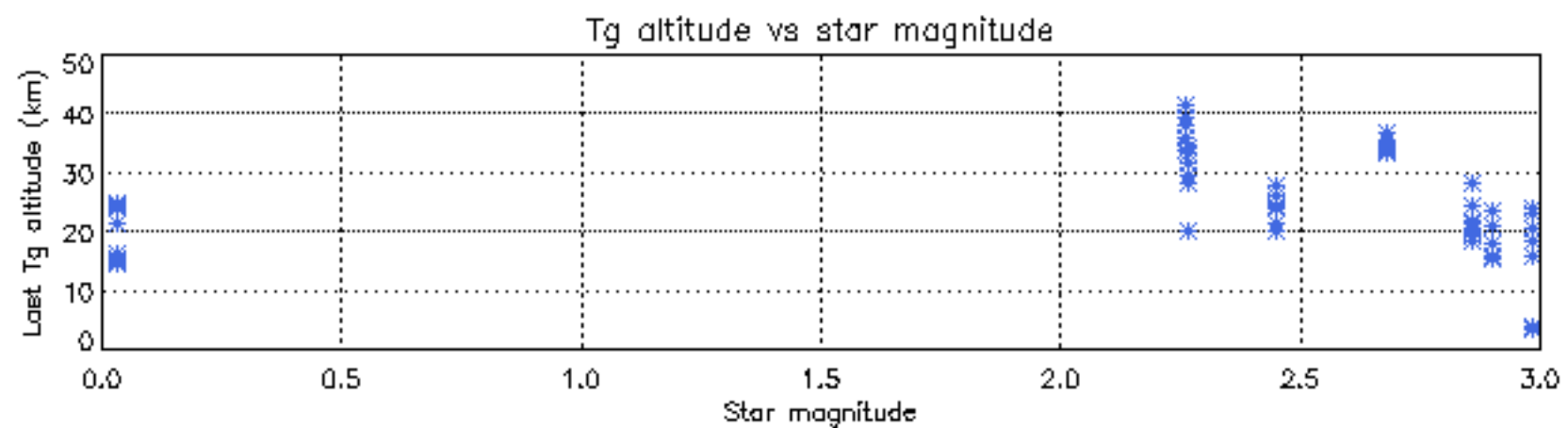
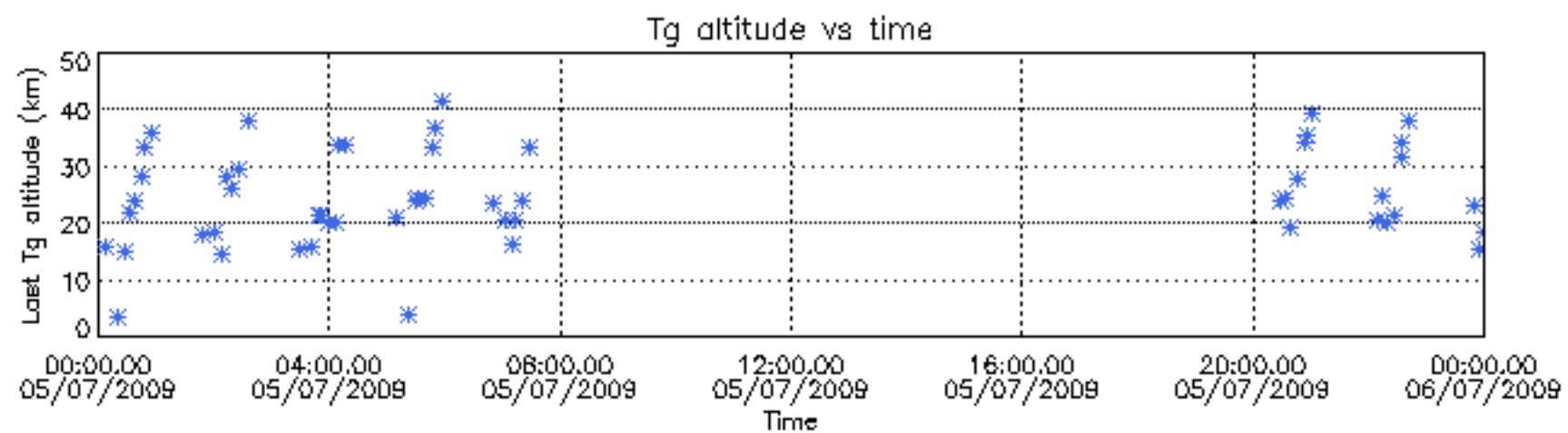
Percentage of saturation errors per profile

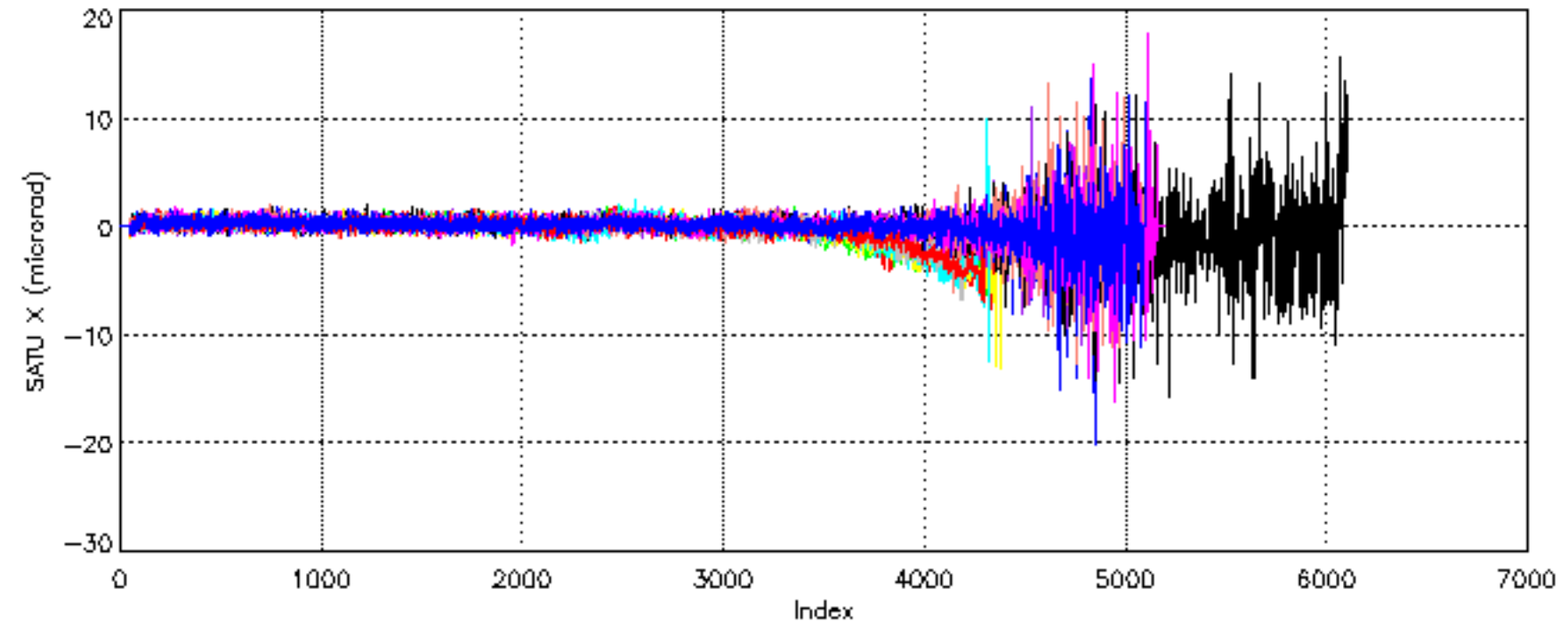




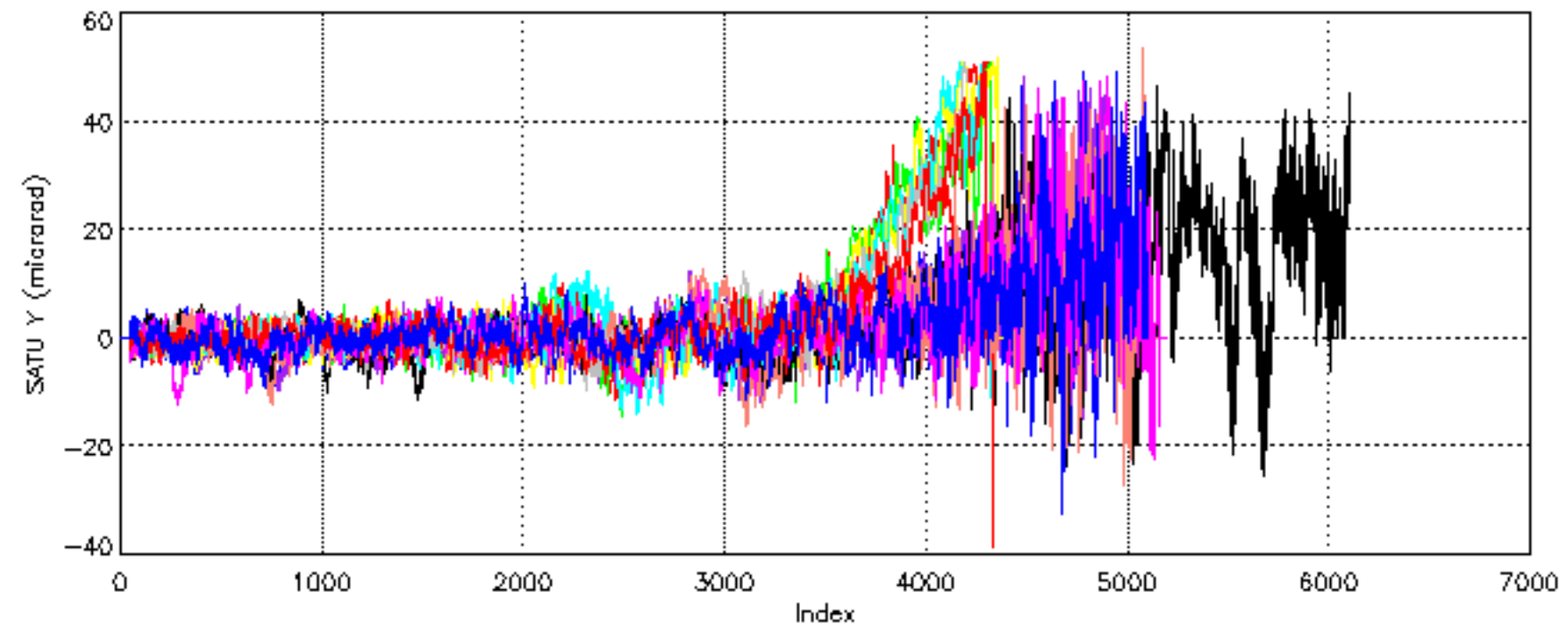


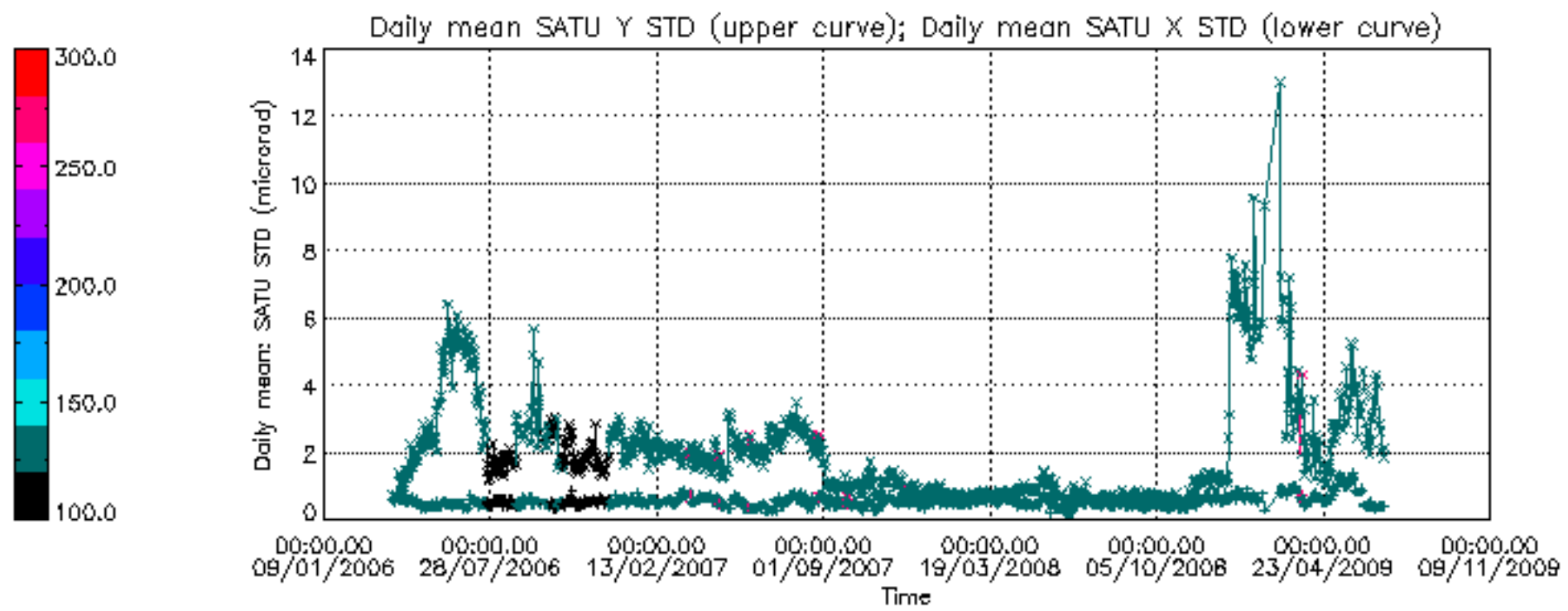
Tangent altitude at which the star is lost











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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090702_010909_000044272080_00231_38361_8080.N1
 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
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090701_014033_000044422080_00217_38347_8074.N1
 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
12; 3876.9; 01-JUL-2009 02:54:03; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;38348
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090701_025403_000055452080_00218_38348_8075.N1
 1;-2159.1; 01-JUL-2009 02:54:03; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;38348
 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
14; 3342.2; 01-JUL-2009 04:25:44; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38349
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090701_043306_000056362080_00219_38349_8076.N1
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 2;-2158.9; 01-JUL-2009 04:34:39; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38349
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6; 3871.1; 02-JUL-2009 10:45:20; Bright; 36.5; 110; 37Del Cas ; 2.68; 8900;occ; 73; 0;38367
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9; 4687.0; 02-JUL-2009 10:58:56; Dark ; 41.0; 50; 13Alp Ari ; 2.01; 4250;occ; 82; 0;38367
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3; 2904.8; 02-JUL-2009 12:09:49; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38368
4; 3329.7; 02-JUL-2009 12:16:54; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38368
5; 3773.7; 02-JUL-2009 12:24:18; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;38368
6; 3871.0; 02-JUL-2009 12:25:56; Bright; 36.0; 110; 37Del Cas ; 2.68; 8900;occ; 72; 0;38368
7; 4265.3; 02-JUL-2009 12:32:30; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;38368
8; 4426.4; 02-JUL-2009 12:35:11; Dark ; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;38368
9; 4687.2; 02-JUL-2009 12:39:32; Dark ; 40.0; 50; 13Alp Ari ; 2.01; 4250;occ; 80; 0;38368

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13; 6658.8; 02-JUL-2009 13:12:23; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38368
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 4; 3328.9; 02-JUL-2009 13:57:29; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38369
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 9; 4687.7; 02-JUL-2009 14:20:08; Dark ; 42.0; 50; 13Alp Ari ; 2.01; 4250;occ; 84; 0;38369
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13; 6660.0; 02-JUL-2009 14:53:00; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38369
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 5; 807.2; 03-JUL-2009 00:59:39; Dark ; 56.5; 172; Gam Gru ; 3.00; 13100;occ; 113; 0;38376
 6; 1486.3; 03-JUL-2009 01:10:58; Bright; 48.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 96; 0;38376
 7; 2217.1; 03-JUL-2009 01:23:09; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38376
 8; 2638.1; 03-JUL-2009 01:30:10; Bright; 47.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 94; 0;38376
 9; 2897.9; 03-JUL-2009 01:34:30; Bright; 44.5; 144; 18Del Cyg ; 2.86; 11000;occ; 89; 0;38376
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 5; 808.2; 03-JUL-2009 02:40:16; Dark ; 58.0; 172; Gam Gru ; 3.00; 13100;occ; 116; 0;38377
 6; 1486.6; 03-JUL-2009 02:51:34; Bright; 43.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 86; 0;38377
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11; 2853.3; 07-JUL-2009 04:29:05; Bright; 45.5; 144; 18Del Cyg ; 2.86; 11000;occ; 91; 0;38435
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3; -1776.9; 07-JUL-2009 04:52:30; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;38435
4; -1322.9; 07-JUL-2009 05:00:05; Dark ; 48.0; 50; 13Alp Ari ; 2.01; 4250;occ; 96; 0;38435
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7; 192.5; 07-JUL-2009 05:25:20; Dark ; 51.5; 84; Alp Phe ; 2.40; 4500;occ; 103; 0;38436
8; 571.2; 07-JUL-2009 05:31:39; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;38436
9; 680.6; 07-JUL-2009 05:33:28; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38436
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11; 2192.0; 07-JUL-2009 05:58:39; Bright; 64.0; 168; 17Zet Aql ; 2.99; 11000;occ; 128; 0;38436
12; 2852.5; 07-JUL-2009 06:09:40; Bright; 43.5; 144; 18Del Cyg ; 2.86; 11000;occ; 87; 0;38436
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3; 2845.9; 07-JUL-2009 21:14:57; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;38445
4; 3278.9; 07-JUL-2009 21:22:10; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38445
5; 3729.8; 07-JUL-2009 21:29:41; Bright; 64.0; 74; 11Bet Cas ; 2.27; 6600;occ; 128; 0;38445
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7; 4257.8; 07-JUL-2009 21:38:29; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;38445
8; 4431.7; 07-JUL-2009 21:41:22; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;38445
9; 4717.4; 07-JUL-2009 21:46:08; Dark ; 39.0; 50; 13Alp Ari ; 2.01; 4250;occ; 78; 0;38445
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 5; 875.0; 07-JUL-2009 22:22:42; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;38446  
 6; 2188.5; 07-JUL-2009 22:44:35; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38446  
 7; 2845.2; 07-JUL-2009 22:55:32; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38446  
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 9; 3729.4; 07-JUL-2009 23:10:16; Bright; 54.5; 74; 11Bet Cas ; 2.27; 6600;occ; 109; 0;38446  
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 3; 581.4; 07-JUL-2009 23:58:24; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38447  
 4; 689.4; 08-JUL-2009 00:00:12; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38447  
 5; 875.9; 08-JUL-2009 00:03:18; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;38447  
 6; 2188.0; 08-JUL-2009 00:25:10; Bright; 41.5; 168; 17Zet Aql ; 2.99; 11000;occ; 83; 0;38447  
 7; 2844.6; 08-JUL-2009 00:36:07; Bright; 44.5; 144; 18Del Cyg ; 2.86; 11000;occ; 89; 0;38447  
 8; 3277.8; 08-JUL-2009 00:43:20; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38447  
 9; 3728.8; 08-JUL-2009 00:50:51; Bright; 47.5; 74; 11Bet Cas ; 2.27; 6600;occ; 95; 0;38447  
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 4; -1604.9; 07-JUL-2009 06:35:58; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;38436  
 5; -1322.4; 07-JUL-2009 06:40:41; Dark ; 50.0; 50; 13Alp Ari ; 2.01; 4250;occ; 100; 0;38436  
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 7; -445.4; 07-JUL-2009 06:55:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38436  
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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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 4; 3734.6; 07-JUL-2009 08:04:58; Bright; 64.5; 74; 11Bet Cas ; 2.27; 6600;occ; 129; 0;38437  
 5; 3848.1; 07-JUL-2009 08:06:51; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38437  
 6; 4259.0; 07-JUL-2009 08:13:42; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38437  
 7; 4431.3; 07-JUL-2009 08:16:35; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;38437  
 8; 4714.1; 07-JUL-2009 08:21:17; Dark ; 48.0; 50; 13Alp Ari ; 2.01; 4250;occ; 96; 0;38437  
 9; 5021.3; 07-JUL-2009 08:26:25; Dark ; 39.5; 94; 92Alp Cet ; 2.53; 3100;occ; 79; 0;38437  
 10; 5591.6; 07-JUL-2009 08:35:55; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 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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 3; 3283.7; 07-JUL-2009 09:38:03; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38438  
 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  
 7; 4431.1; 07-JUL-2009 09:57:10; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;38438  
 8; 4714.5; 07-JUL-2009 10:01:54; Dark ; 49.0; 50; 13Alp Ari ; 2.01; 4250;occ; 98; 0;38438  
 9; 5021.8; 07-JUL-2009 10:07:01; Dark ; 40.5; 94; 92Alp Cet ; 2.53; 3100;occ; 81; 0;38438  
 10; 5592.6; 07-JUL-2009 10:16:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38438

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12; 6610.1; 07-JUL-2009 10:33:29; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;38438
13; 6718.8; 07-JUL-2009 10:35:18; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38438
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 3; 3733.6; 07-JUL-2009 11:26:09; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38439
 4; 3847.3; 07-JUL-2009 11:28:02; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;38439
 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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 7; 4714.9; 07-JUL-2009 11:42:30; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;38439
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13; 6720.4; 07-JUL-2009 13:56:31; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38440
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 5; 3846.8; 07-JUL-2009 14:49:14; Bright; 64.0; 110; 37Del Cas ; 2.68; 8900;occ; 128; 0;38441
 6; 4258.4; 07-JUL-2009 14:56:05; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;38441
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 4; 3731.1; 07-JUL-2009 18:08:30; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;38443

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9; 704.2; 09-JUL-2009 06:11:13; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38465

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6; 4254.7; 09-JUL-2009 17:13:59; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38471
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 11; 961.6; 15-JUL-2009 04:46:25; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38550  
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 10; 358.9; 17-JUL-2009 11:56:08; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38583  
 11; 699.2; 17-JUL-2009 12:01:48; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38583  
 12; 793.0; 17-JUL-2009 12:03:22; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38583  
 13; 986.0; 17-JUL-2009 12:06:35; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38583

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 3; 2898.7; 17-JUL-2009 12:38:28; Bright; 50.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 101; 0;38583  
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 5; 3638.7; 17-JUL-2009 12:50:48; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38583  
 6; 3755.6; 17-JUL-2009 12:52:44; Bright; 51.0; 68; 18Alp Cas ; 2.22; 4500;occ; 102; 0;38583  
 7; 4035.5; 17-JUL-2009 12:57:24; Bright; 62.0; 160; 23Gam Per ; 2.93; 4700;occ; 124; 0;38583  
 8; 4118.0; 17-JUL-2009 12:58:47; Bright; 41.5; 35; 33Alp Per ; 1.79; 6250;occ; 83; 0;38583  
 9; 4295.9; 17-JUL-2009 13:01:45; Bright; 49.5; 79; 26Bet Per ; 2.31; 13100;occ; 99; 0;38583  
 10; 4473.2; 17-JUL-2009 13:04:42; Dark ; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;38583  
 11; 4629.9; 17-JUL-2009 13:07:19; Dark ; 42.5; 146; 25Eta Tau ; 2.87; 15200;occ; 85; 0;38583  
 12; 5118.5; 17-JUL-2009 13:15:27; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38583  
 13; 5470.2; 17-JUL-2009 13:21:19; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38583  
 14; 6395.8; 17-JUL-2009 13:36:45; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38583  
 15; 6735.9; 17-JUL-2009 13:42:25; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38583  
 16; 6829.6; 17-JUL-2009 13:43:58; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38583  
 17; 7022.6; 17-JUL-2009 13:47:11; Dark ; 51.0; 172; Gam Gru ; 3.00; 13100;occ; 102; 0;38583

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 3; 2897.8; 17-JUL-2009 14:19:03; Bright; 50.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 100; 0;38584  
 4; 3194.8; 17-JUL-2009 14:23:59; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38584  
 5; 3638.2; 17-JUL-2009 14:31:23; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38584  
 6; 3755.1; 17-JUL-2009 14:33:20; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;38584  
 7; 4035.3; 17-JUL-2009 14:38:00; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;38584



8; 4117.9; 17-JUL-2009 14:39:23; Bright; 60.0; 35; 33Alp Per ; 1.79; 6250;occ; 120; 0;38584  
 9; 4296.3; 17-JUL-2009 14:42:21; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38584  
 10; 4473.4; 17-JUL-2009 14:45:18; Dark ; 41.0; 150; 44Zet Per ; 2.89; 28000;occ; 82; 0;38584  
 11; 4630.3; 17-JUL-2009 14:47:55; Dark ; 41.0; 146; 25Eta Tau ; 2.87; 15200;occ; 82; 0;38584  
 12; 5119.3; 17-JUL-2009 14:56:04; Dark ; 72.5; 94; 92Alp Cet ; 2.53; 3100;occ; 145; 0;38584  
 13; 5471.2; 17-JUL-2009 15:01:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38584  
 14; 6397.1; 17-JUL-2009 15:17:22; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38584  
 15; 6736.7; 17-JUL-2009 15:23:01; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38584  
 16; 6829.9; 17-JUL-2009 15:24:35; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;38584  
 17; 7023.4; 17-JUL-2009 15:27:48; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38584

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 3; 2897.2; 17-JUL-2009 15:59:38; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38585  
 4; 3194.1; 17-JUL-2009 16:04:35; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38585  
 5; 3637.4; 17-JUL-2009 16:11:58; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38585  
 6; 3754.4; 17-JUL-2009 16:13:55; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;38585  
 7; 4035.3; 17-JUL-2009 16:18:36; Bright; 50.0; 160; 23Gam Per ; 2.93; 4700;occ; 100; 0;38585  
 8; 4117.9; 17-JUL-2009 16:19:59; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38585  
 9; 4296.1; 17-JUL-2009 16:22:57; Bright; 49.0; 79; 26Bet Per ; 2.31; 13100;occ; 98; 0;38585  
 10; 4473.3; 17-JUL-2009 16:25:54; Dark ; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;38585  
 11; 4630.4; 17-JUL-2009 16:28:31; Dark ; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;38585  
 12; 5120.1; 17-JUL-2009 16:36:41; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38585  
 13; 5472.2; 17-JUL-2009 16:42:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38585  
 14; 6398.2; 17-JUL-2009 16:57:59; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38585  
 15; 6737.7; 17-JUL-2009 17:03:38; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;38585  
 16; 6831.1; 17-JUL-2009 17:05:12; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38585  
 17; 7024.1; 17-JUL-2009 17:08:25; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38585

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 2; 2763.9; 17-JUL-2009 17:38:01; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38586  
 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  
 5; 3636.7; 17-JUL-2009 17:52:33; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38586  
 6; 3753.6; 17-JUL-2009 17:54:30; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;38586  
 7; 4034.9; 17-JUL-2009 17:59:12; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38586  
 8; 4117.8; 17-JUL-2009 18:00:34; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38586  
 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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 11; 4630.5; 17-JUL-2009 18:09:07; Dark ; 43.5; 146; 25Eta Tau ; 2.87; 15200;occ; 87; 0;38586  
 12; 5121.0; 17-JUL-2009 18:17:18; Dark ; 60.0; 94; 92Alp Cet ; 2.53; 3100;occ; 120; 0;38586  
 13; 5473.2; 17-JUL-2009 18:23:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38586  
 14; 6399.4; 17-JUL-2009 18:38:36; Dark ; 58.5; 84; Alp Phe ; 2.40; 4500;occ; 117; 0;38586  
 15; 6738.6; 17-JUL-2009 18:44:15; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;38586  
 16; 6831.7; 17-JUL-2009 18:45:48; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;38586  
 17; 7024.7; 17-JUL-2009 18:49:01; Dark ; 49.5; 172; Gam Gru ; 3.00; 13100;occ; 99; 0;38586

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 3; 705.6; 18-JUL-2009 01:26:42; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;38591  
 4; 798.4; 18-JUL-2009 01:28:15; Dark ; 56.5; 31; Alp Gru ; 1.73; 15200;occ; 113; 0;38591  
 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  
 8; 2892.2; 18-JUL-2009 02:03:08; Bright; 48.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 96; 0;38591  
 9; 3190.7; 18-JUL-2009 02:08:07; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38591  
 10; 3633.0; 18-JUL-2009 02:15:29; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38591  
 11; 3750.4; 18-JUL-2009 02:17:27; Bright; 44.0; 68; 18Alp Cas ; 2.22; 4500;occ; 88; 0;38591  
 12; 4034.1; 18-JUL-2009 02:22:10; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38591  
 13; 4117.1; 18-JUL-2009 02:23:33; Bright; 60.5; 35; 33Alp Per ; 1.79; 6250;occ; 121; 0;38591

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 2; -1740.2; 18-JUL-2009 02:26:32; Bright; 48.5; 79; 26Bet Per ; 2.31; 13100;occ; 97; 0;38591  
 3; -1561.9; 18-JUL-2009 02:29:30; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38591  
 4; -910.6; 18-JUL-2009 02:40:21; Dark ; 62.0; 94; 92Alp Cet ; 2.53; 3100;occ; 124; 0;38591  
 5; -557.9; 18-JUL-2009 02:46:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38591  
 6; 369.2; 18-JUL-2009 03:01:41; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38592  
 7; 706.5; 18-JUL-2009 03:07:19; Dark ; 55.0; 63; Bet Gru ; 2.15; 2800;occ; 110; 0;38592

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9; 992.5; 18-JUL-2009 03:12:05; Dark ; 52.0; 172; Gam Gru ; 3.00; 13100;occ; 104; 0;38592
10; 2153.3; 18-JUL-2009 03:31:25; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76; 0;38592
11; 2761.3; 18-JUL-2009 03:41:33; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38592
12; 2891.3; 18-JUL-2009 03:43:43; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38592
13; 3190.1; 18-JUL-2009 03:48:42; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38592
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2;-2286.5; 18-JUL-2009 03:58:02; Bright; 43.0; 68; 18Alp Cas ; 2.22; 4500;occ; 86; 0;38592
3;-2002.2; 18-JUL-2009 04:02:46; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;38592
4;-1919.1; 18-JUL-2009 04:04:09; Bright; 42.5; 35; 33Alp Per ; 1.79; 6250;occ; 85; 0;38592
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
10; 707.4; 18-JUL-2009 04:47:56; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;38593
11; 799.7; 18-JUL-2009 04:49:28; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38593
12; 993.1; 18-JUL-2009 04:52:41; Dark ; 51.0; 172; Gam Gru ; 3.00; 13100;occ; 102; 0;38593
13; 2153.1; 18-JUL-2009 05:12:01; Bright; 37.5; 168; 17Zet Aql ; 2.99; 11000;occ; 75; 0;38593
14; 2760.8; 18-JUL-2009 05:22:09; Bright; 40.5; 144; 18Del Cyg ; 2.86; 11000;occ; 81; 0;38593
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16; 3189.6; 18-JUL-2009 05:29:18; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38593
17; 3631.6; 18-JUL-2009 05:36:40; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;38593
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2;-2287.1; 18-JUL-2009 05:38:37; Bright; 43.0; 68; 18Alp Cas ; 2.22; 4500;occ; 86; 0;38593
3;-2002.4; 18-JUL-2009 05:43:22; Bright; 42.5; 160; 23Gam Per ; 2.93; 4700;occ; 85; 0;38593
4;-1919.2; 18-JUL-2009 05:44:45; Bright; 55.0; 35; 33Alp Per ; 1.79; 6250;occ; 110; 0;38593
5;-1740.4; 18-JUL-2009 05:47:44; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38593
6;-1561.7; 18-JUL-2009 05:50:42; Dark ; 46.5; 150; 44Zet Per ; 2.89; 28000;occ; 93; 0;38593
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9; 371.6; 18-JUL-2009 06:22:56; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38594
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12; 993.9; 18-JUL-2009 06:33:18; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38594
13; 2153.1; 18-JUL-2009 06:52:37; Bright; 39.0; 168; 17Zet Aql ; 2.99; 11000;occ; 78; 0;38594
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3; 2756.5; 18-JUL-2009 20:27:28; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;38602
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5; 3184.3; 18-JUL-2009 20:34:36; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38602
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8; 4031.7; 18-JUL-2009 20:48:43; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;38602
9; 4115.5; 18-JUL-2009 20:50:07; Bright; 45.0; 35; 33Alp Per ; 1.79; 6250;occ; 90; 0;38602
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5; 806.4; 18-JUL-2009 21:35:34; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38603
6; 1000.0; 18-JUL-2009 21:38:48; Dark ; 49.5; 172; Gam Gru ; 3.00; 13100;occ; 99; 0;38603
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17; 6903.4; 25-JUL-2009 12:53:28; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38697
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5; 3552.9; 25-JUL-2009 13:38:13; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38698
6; 4008.8; 25-JUL-2009 13:45:49; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;38698
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 9; 4488.6; 25-JUL-2009 13:53:49; Dark ; 49.5; 150; 44Zet Per ; 2.89; 28000;occ; 99; 0;38698  
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 14; 5928.6; 25-JUL-2009 14:17:49; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38698  
 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  
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 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  
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 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  
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 17; 6904.7; 25-JUL-2009 16:14:41; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 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  
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 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  
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 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  
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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  
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 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  
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 15; 5604.4; 25-JUL-2009 19:14:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
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6; 1064.0; 26-JUL-2009 02:21:32; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38706
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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
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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
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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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 14; 5641.3; 27-JUL-2009 16:31:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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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 5; 3528.7; 27-JUL-2009 17:36:23; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38729  
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