

GOMOS Daily Report 14-JUL-2009

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

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

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	17JUL2009 04:43:14
Data source version	GOMOS/5.00
Start time of products	14JUL2009 00:05:14
Stop time of products	14JUL2009 23:44:35
Store outputs in DB	Yes
Nb of level 1b prods	79
Nb of prods with errors	0

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

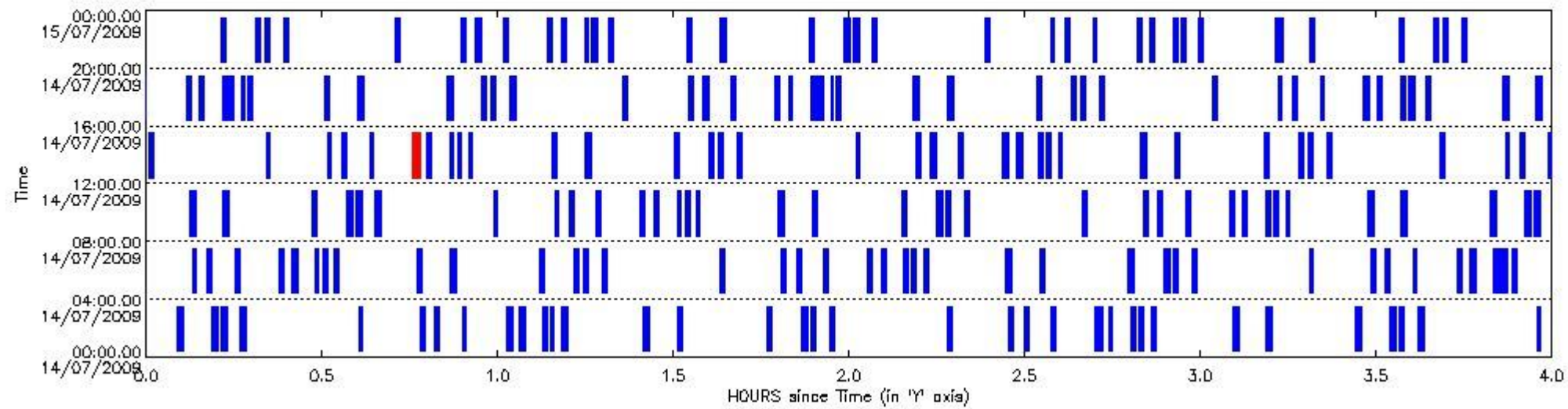
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

UTC start time	Star name	Star ID	Orbit
14-JUL-2009 12:45:32	11BetCas	74	38540

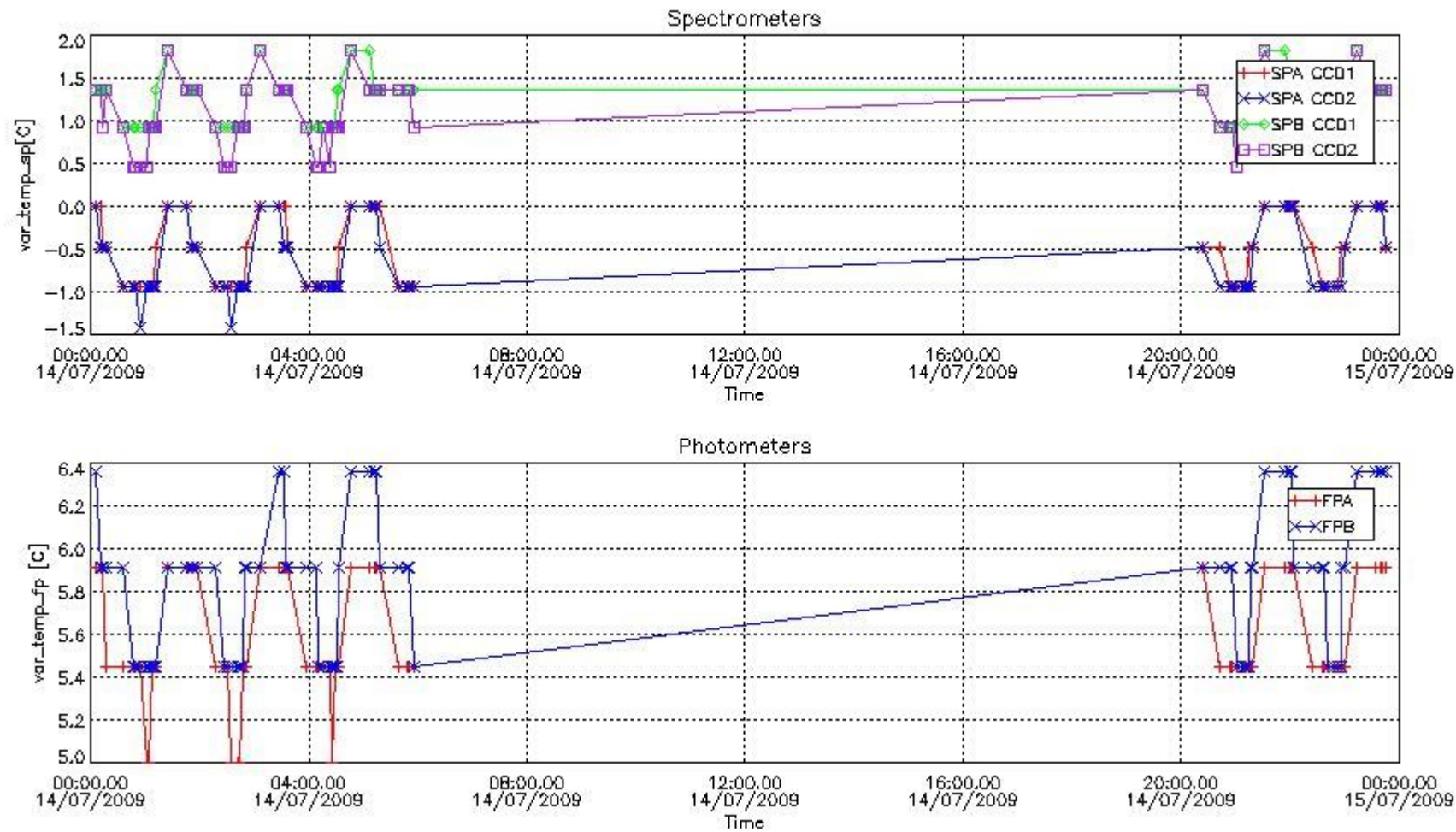
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090714_000514_000000662080_00403_38533_6473.N1	14-JUL-2009 00:05:14	Dark	65.500	84	Alp Phe	2.3970	4500.0	131	38533	No
2	GOM_TRA_1PNPDE20090714_001110_000000632080_00403_38533_6474.N1	14-JUL-2009 00:11:10	Straylight	62.500	63	Bet Gru	2.1500	2800.0	125	38533	No
3	GOM_TRA_1PNPDE20090714_001249_000000582080_00403_38533_6475.N1	14-JUL-2009 00:12:49	Straylight	58.000	31	Alp Gru	1.7340	15200.	116	38533	No
4	GOM_TRA_1PNPDE20090714_001601_000000552080_00403_38533_6476.N1	14-JUL-2009 00:16:01	Straylight	54.500	172	Gam Gru	3.0030	13100.	109	38533	No
5	GOM_TRA_1PNPDE20090714_003616_000000402080_00403_38533_6477.N1	14-JUL-2009 00:36:16	Bright	39.500	168	17Zet Aql	2.9860	11000.	79	38533	No
6	GOM_TRA_1PNPDE20090714_004643_000000512080_00403_38533_6478.N1	14-JUL-2009 00:46:43	Bright	50.500	144	18Del Cyg	2.8600	11000.	101	38533	No
7	GOM_TRA_1PNPDE20090714_004914_000000492080_00403_38533_6479.N1	14-JUL-2009 00:49:14	Bright	48.500	19	50Alp Cyg	1.2460	10500.	97	38533	No
8	GOM_TRA_1PNPDE20090714_005357_000000422080_00403_38533_6480.N1	14-JUL-2009 00:53:57	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	38533	No
9	GOM_TRA_1PNPDE20090714_010126_000000732080_00403_38533_6481.N1	14-JUL-2009 01:01:26	Bright	73.000	74	11Bet Cas	2.2680	6600.0	146	38533	No
10	GOM_TRA_1PNPDE20090714_010342_000000662080_00403_38533_6482.N1	14-JUL-2009 01:03:42	Bright	66.000	110	37Del Cas	2.6780	8900.0	132	38533	No

11	GOM_TRA_1PNPDE20090714_010736_000000492080_00403_38533_6483.N1	14-JUL-2009 01:07:36	Bright	49.000	160	23Gam Per	2.9300	4700.0	98	38533	No
12	GOM_TRA_1PNPDE20090714_010855_000000402080_00403_38533_6484.N1	14-JUL-2009 01:08:55	Bright	40.000	35	33Alp Per	1.7950	6250.0	80	38533	No
13	GOM_TRA_1PNPDE20090714_011057_000000542080_00403_38533_6485.N1	14-JUL-2009 01:10:57	Bright	54.000	73	57Gam1And	2.2600	13100.	108	38533	No
14	GOM_TRA_1PNPDE20090714_012453_000000572080_00403_38533_6486.N1	14-JUL-2009 01:24:53	Dark	56.500	94	92Alp Cet	2.5260	3100.0	113	38533	No
15	GOM_TRA_1PNPDE20090714_014551_000000542080_00404_38534_6613.N1	14-JUL-2009 01:45:51	Dark	53.500	84	Alp Phe	2.3970	4500.0	107	38534	No
16	GOM_TRA_1PNPDE20090714_015147_000000632080_00404_38534_6614.N1	14-JUL-2009 01:51:47	Straylight	62.500	63	Bet Gru	2.1500	2800.0	125	38534	No
17	GOM_TRA_1PNPDE20090714_015326_000000552080_00404_38534_6615.N1	14-JUL-2009 01:53:26	Straylight	55.000	31	Alp Gru	1.7340	15200.	110	38534	No
18	GOM_TRA_1PNPDE20090714_015638_000000552080_00404_38534_6616.N1	14-JUL-2009 01:56:38	Straylight	55.000	172	Gam Gru	3.0030	13100.	110	38534	No
19	GOM_TRA_1PNPDE20090714_021652_000000412080_00404_38534_6617.N1	14-JUL-2009 02:16:52	Bright	40.500	168	17Zet Aql	2.9860	11000.	81	38534	No
20	GOM_TRA_1PNPDE20090714_022719_000000442080_00404_38534_6618.N1	14-JUL-2009 02:27:19	Bright	43.500	144	18Del Cyg	2.8600	11000.	87	38534	No
21	GOM_TRA_1PNPDE20090714_022949_000000482080_00404_38534_6619.N1	14-JUL-2009 02:29:49	Bright	47.500	19	50Alp Cyg	1.2460	10500.	95	38534	No
22	GOM_TRA_1PNPDE20090714_023432_000000442080_00404_38534_6620.N1	14-JUL-2009 02:34:32	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	38534	No
23	GOM_TRA_1PNPDE20090714_024201_000000732080_00404_38534_6621.N1	14-JUL-2009 02:42:01	Bright	73.000	74	11Bet Cas	2.2680	6600.0	146	38534	No
24	GOM_TRA_1PNPDE20090714_024418_000000422080_00404_38534_6622.N1	14-JUL-2009 02:44:18	Bright	41.500	110	37Del Cas	2.6780	8900.0	83	38534	No
25	GOM_TRA_1PNPDE20090714_024812_000000412080_00404_38534_6780.N1	14-JUL-2009 02:48:12	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	38534	No
26	GOM_TRA_1PNPDE20090714_024931_000000412080_00404_38534_6781.N1	14-JUL-2009 02:49:31	Bright	40.500	35	33Alp Per	1.7950	6250.0	81	38534	No
27	GOM_TRA_1PNPDE20090714_025132_000000492080_00404_38534_6782.N1	14-JUL-2009 02:51:32	Bright	49.000	73	57Gam1And	2.2600	13100.	98	38534	No
28	GOM_TRA_1PNPDE20090714_030529_000000602080_00404_38534_6783.N1	14-JUL-2009 03:05:29	Dark	59.500	94	92Alp Cet	2.5260	3100.0	119	38534	No
29	GOM_TRA_1PNPDE20090714_032628_000000562080_00405_38535_6784.N1	14-JUL-2009 03:26:28	Dark	55.500	84	Alp Phe	2.3970	4500.0	111	38535	No
30	GOM_TRA_1PNPDE20090714_033223_000000532080_00405_38535_6785.N1	14-JUL-2009 03:32:23	Straylight	53.000	63	Bet Gru	2.1500	2800.0	106	38535	No
31	GOM_TRA_1PNPDE20090714_033402_000000492080_00405_38535_6786.N1	14-JUL-2009 03:34:02	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	38535	No
32	GOM_TRA_1PNPDE20090714_033714_000000532080_00405_38535_6787.N1	14-JUL-2009 03:37:14	Straylight	52.500	172	Gam Gru	3.0030	13100.	105	38535	No
33	GOM_TRA_1PNPDE20090714_035728_000000422080_00405_38535_6788.N1	14-JUL-2009 03:57:28	Bright	42.000	168	17Zet Aql	2.9860	11000.	84	38535	No
34	GOM_TRA_1PNPDE20090714_040754_000000412080_00405_38535_6789.N1	14-JUL-2009 04:07:54	Bright	41.000	144	18Del Cyg	2.8600	11000.	82	38535	No
35	GOM_TRA_1PNPDE20090714_041024_000000472080_00405_38535_6790.N1	14-JUL-2009 04:10:24	Bright	46.500	19	50Alp Cyg	1.2460	10500.	93	38535	No
36	GOM_TRA_1PNPDE20090714_041507_000000452080_00405_38535_6791.N1	14-JUL-2009 04:15:07	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	38535	No
37	GOM_TRA_1PNPDE20090714_042236_000000492080_00405_38535_6949.N1	14-JUL-2009 04:22:36	Bright	49.000	74	11Bet Cas	2.2680	6600.0	98	38535	No
38	GOM_TRA_1PNPDE20090714_042454_000000542080_00405_38535_6950.N1	14-JUL-2009 04:24:54	Bright	53.500	110	37Del Cas	2.6780	8900.0	107	38535	No
39	GOM_TRA_1PNPDE20090714_042848_000000412080_00405_38535_6951.N1	14-JUL-2009 04:28:48	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	38535	No
40	GOM_TRA_1PNPDE20090714_043007_000000592080_00405_38535_6952.N1	14-JUL-2009 04:30:07	Bright	59.000	35	33Alp Per	1.7950	6250.0	118	38535	No
41	GOM_TRA_1PNPDE20090714_043208_000000492080_00405_38535_6953.N1	14-JUL-2009 04:32:08	Bright	49.000	73	57Gam1And	2.2600	13100.	98	38535	No
42	GOM_TRA_1PNPDE20090714_044606_000000632080_00405_38535_6954.N1	14-JUL-2009 04:46:06	Dark	63.000	94	92Alp Cet	2.5260	3100.0	126	38535	No
43	GOM_TRA_1PNPDE20090714_050705_000000532080_00406_38536_6955.N1	14-JUL-2009 05:07:05	Dark	53.000	84	Alp Phe	2.3970	4500.0	106	38536	No
44	GOM_TRA_1PNPDE20090714_051300_000000542080_00406_38536_6956.N1	14-JUL-2009 05:13:00	Straylight	54.000	63	Bet Gru	2.1500	2800.0	108	38536	No
45	GOM_TRA_1PNPDE20090714_051439_000000482080_00406_38536_6957.N1	14-JUL-2009 05:14:39	Straylight	47.500	31	Alp Gru	1.7340	15200.	95	38536	No
46	GOM_TRA_1PNPDE20090714_051751_000000522080_00406_38536_6958.N1	14-JUL-2009 05:17:51	Straylight	52.000	172	Gam Gru	3.0030	13100.	104	38536	No
47	GOM_TRA_1PNPDE20090714_053803_000000402080_00406_38536_6959.N1	14-JUL-2009 05:38:03	Bright	40.000	168	17Zet Aql	2.9860	11000.	80	38536	No
48	GOM_TRA_1PNPDE20090714_054830_000000432080_00406_38536_6960.N1	14-JUL-2009 05:48:30	Bright	42.500	144	18Del Cyg	2.8600	11000.	85	38536	No
49	GOM_TRA_1PNPDE20090714_055059_000000512080_00406_38536_6961.N1	14-JUL-2009 05:50:59	Bright	51.000	19	50Alp Cyg	1.2460	10500.	102	38536	No
50	GOM_TRA_1PNPDE20090714_055543_000000432080_00406_38536_6962.N1	14-JUL-2009 05:55:43	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	38536	No
51	GOM_TRA_1PNPDE20090714_202322_000000532080_00415_38545_7407.N1	14-JUL-2009 20:23:22	Straylight	52.500	172	Gam Gru	3.0030	13100.	105	38545	No
52	GOM_TRA_1PNPDE20090714_204235_000000452080_00415_38545_7408.N1	14-JUL-2009 20:42:35	Bright	45.000	11	53Alp Aql	0.76500	8000.0	90	38545	No
53	GOM_TRA_1PNPDE20090714_205348_000000432080_00415_38545_7409.N1	14-JUL-2009 20:53:48	Bright	42.500	144	18Del Cyg	2.8600	11000.	85	38545	No
54	GOM_TRA_1PNPDE20090714_205614_000000532080_00415_38545_7410.N1	14-JUL-2009 20:56:14	Bright	53.000	19	50Alp Cyg	1.2460	10500.	106	38545	No
55	GOM_TRA_1PNPDE20090714_210101_000000422080_00415_38545_7411.N1	14-JUL-2009 21:01:01	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	38545	No
56	GOM_TRA_1PNPDE20090714_210829_000000502080_00415_38545_7412.N1	14-JUL-2009 21:08:29	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38545	No
57	GOM_TRA_1PNPDE20090714_211049_000000452080_00415_38545_7413.N1	14-JUL-2009 21:10:49	Bright	44.500	110	37Del Cas	2.6780	8900.0	89	38545	No
58	GOM_TRA_1PNPDE20090714_211446_000000422080_00415_38545_7414.N1	14-JUL-2009 21:14:46	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	38545	No
59	GOM_TRA_1PNPDE20090714_211606_000000492080_00415_38545_7415.N1	14-JUL-2009 21:16:06	Bright	49.000	35	33Alp Per	1.7950	6250.0	98	38545	No
60	GOM_TRA_1PNPDE20090714_211901_000000462080_00415_38545_7416.N1	14-JUL-2009 21:19:01	Bright	46.000	79	26Bet Per	2.3100	13100.	92	38545	No
61	GOM_TRA_1PNPDE20090714_213213_000000602080_00415_38545_7417.N1	14-JUL-2009 21:32:13	Dark	60.000	94	92Alp Cet	2.5260	3100.0	120	38545	No
62	GOM_TRA_1PNPDE20090714_215316_000000532080_00416_38546_7567.N1	14-JUL-2009 21:53:16	Dark	52.500	84	Alp Phe	2.3970	4500.0	105	38546	No
63	GOM_TRA_1PNPDE20090714_215908_000000632080_00416_38546_7568.N1	14-JUL-2009 21:59:08	Straylight	63.000	63	Bet Gru	2.1500	2800.0	126	38546	No
64	GOM_TRA_1PNPDE20090714_220046_000000552080_00416_38546_7569.N1	14-JUL-2009 22:00:46	Straylight	55.000	31	Alp Gru	1.7340	15200.	110	38546	No
65	GOM_TRA_1PNPDE20090714_220358_000000502080_00416_38546_7570.N1	14-JUL-2009 22:03:58	Straylight	50.000	172	Gam Gru	3.0030	13100.	100	38546	No
66	GOM_TRA_1PNPDE20090714_222310_000000472080_00416_38546_7571.N1	14-JUL-2009 22:23:10	Bright	46.500	11	53Alp Aql	0.76500	8000.0	93	38546	No
67	GOM_TRA_1PNPDE20090714_223424_000000442080_00416_38546_7572.N1	14-JUL-2009 22:34:24	Bright	43.500	144	18Del Cyg	2.8600	11000.	87	38546	No
68	GOM_TRA_1PNPDE20090714_223649_000000522080_00416_38546_7573.N1	14-JUL-2009 22:36:49	Bright	52.000	19	50Alp Cyg	1.2460	10500.	104	38546	No
69	GOM_TRA_1PNPDE20090714_224136_000000402080_00416_38546_7574.N1	14-JUL-2009 22:41:36	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	38546	No

70	GOM_TRA_1PNPDE20090714_224904_000000512080_00416_38546_7575.N1	14-JUL-2009 22:49:04	Bright	51.000	74	11Bet Cas	2.2680	6600.0	102	38546	No
71	GOM_TRA_1PNPDE20090714_225124_000000452080_00416_38546_7576.N1	14-JUL-2009 22:51:24	Bright	44.500	110	37Del Cas	2.6780	8900.0	89	38546	No
72	GOM_TRA_1PNPDE20090714_225521_000000532080_00416_38546_7577.N1	14-JUL-2009 22:55:21	Bright	52.500	160	23Gam Per	2.9300	4700.0	105	38546	No
73	GOM_TRA_1PNPDE20090714_225641_000000432080_00416_38546_7578.N1	14-JUL-2009 22:56:41	Bright	43.000	35	33Alp Per	1.7950	6250.0	86	38546	No
74	GOM_TRA_1PNPDE20090714_225937_000000482080_00416_38546_7579.N1	14-JUL-2009 22:59:37	Bright	47.500	79	26Bet Per	2.3100	13100.	95	38546	No
75	GOM_TRA_1PNPDE20090714_231249_000000702080_00416_38546_7580.N1	14-JUL-2009 23:12:49	Dark	69.500	94	92Alp Cet	2.5260	3100.0	139	38546	No
76	GOM_TRA_1PNPDE20090714_233353_000000532080_00417_38547_7713.N1	14-JUL-2009 23:33:53	Dark	52.500	84	Alp Phe	2.3970	4500.0	105	38547	No
77	GOM_TRA_1PNPDE20090714_233945_000000612080_00417_38547_7714.N1	14-JUL-2009 23:39:45	Straylight	60.500	63	Bet Gru	2.1500	2800.0	121	38547	No
78	GOM_TRA_1PNPDE20090714_234122_000000542080_00417_38547_7715.N1	14-JUL-2009 23:41:22	Straylight	53.500	31	Alp Gru	1.7340	15200.	107	38547	No
79	GOM_TRA_1PNPDE20090714_234435_000000542080_00417_38547_7716.N1	14-JUL-2009 23:44:35	Straylight	54.000	172	Gam Gru	3.0030	13100.	108	38547	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).

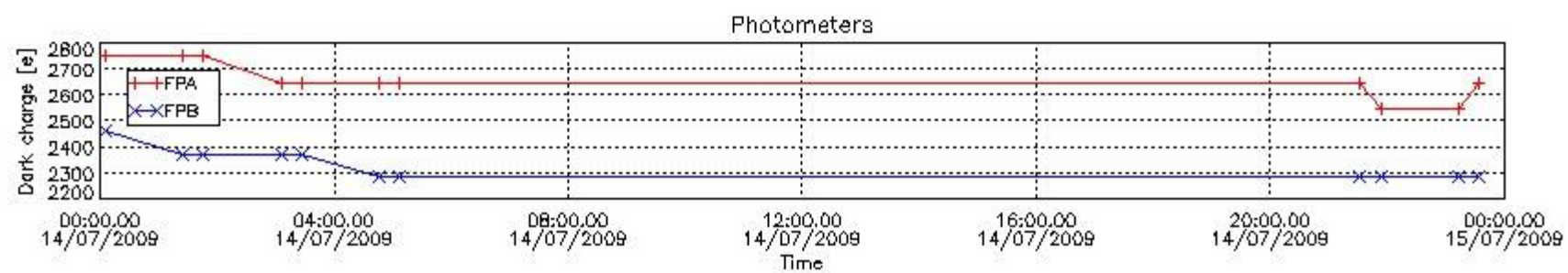
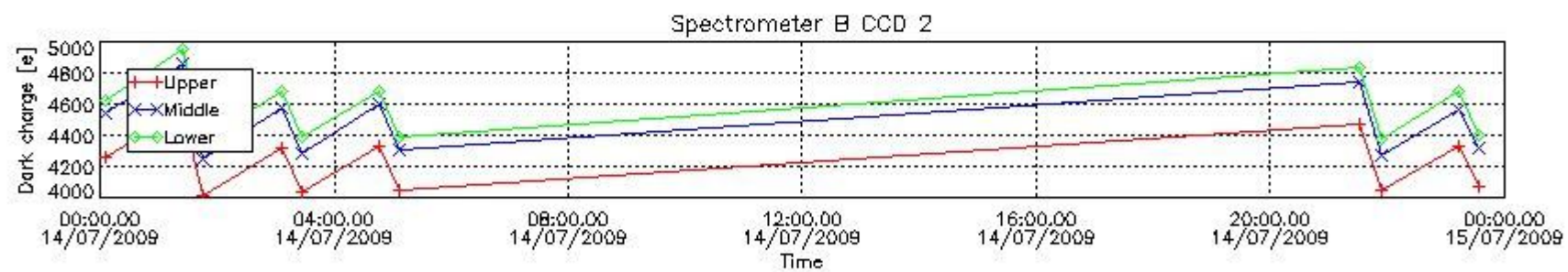
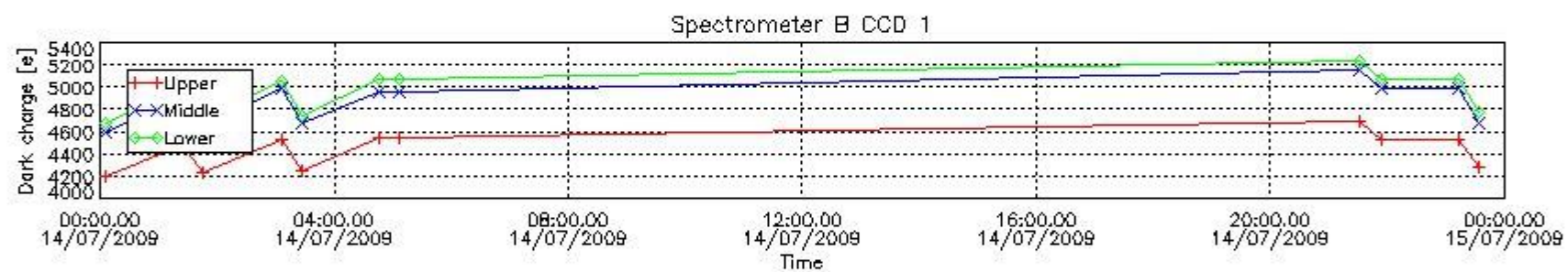
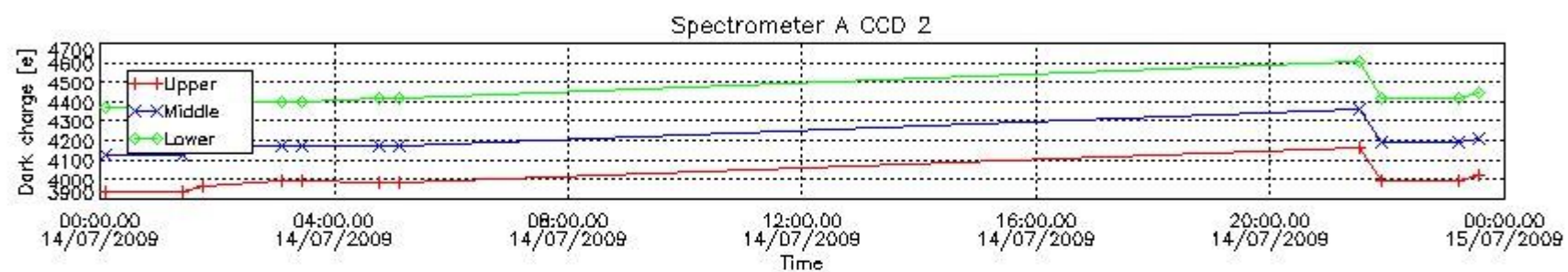
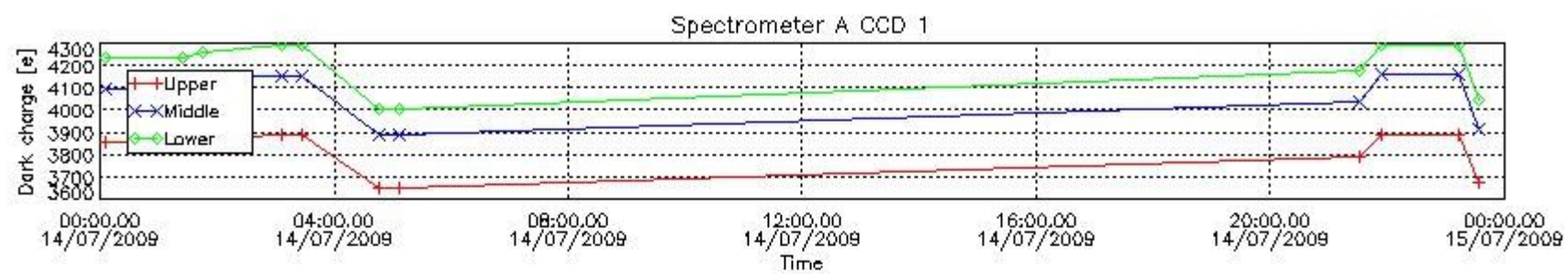
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
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GOM_TRA_1PNPDE20090714_202322_000000532080_00415_38545_7407.N1	DC map used
GOM_TRA_1PNPDE20090714_204235_000000452080_00415_38545_7408.N1	DC map used
GOM_TRA_1PNPDE20090714_205348_000000432080_00415_38545_7409.N1	DC map used
GOM_TRA_1PNPDE20090714_205614_000000532080_00415_38545_7410.N1	DC map used
GOM_TRA_1PNPDE20090714_210101_000000422080_00415_38545_7411.N1	DC map used
GOM_TRA_1PNPDE20090714_210829_000000502080_00415_38545_7412.N1	DC map used
GOM_TRA_1PNPDE20090714_211049_000000452080_00415_38545_7413.N1	DC map used
GOM_TRA_1PNPDE20090714_211446_000000422080_00415_38545_7414.N1	DC map used
GOM_TRA_1PNPDE20090714_211606_000000492080_00415_38545_7415.N1	DC map used
GOM_TRA_1PNPDE20090714_211901_000000462080_00415_38545_7416.N1	DC map used
GOM_TRA_1PNPDE20090714_213213_000000602080_00415_38545_7417.N1	DC map used

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



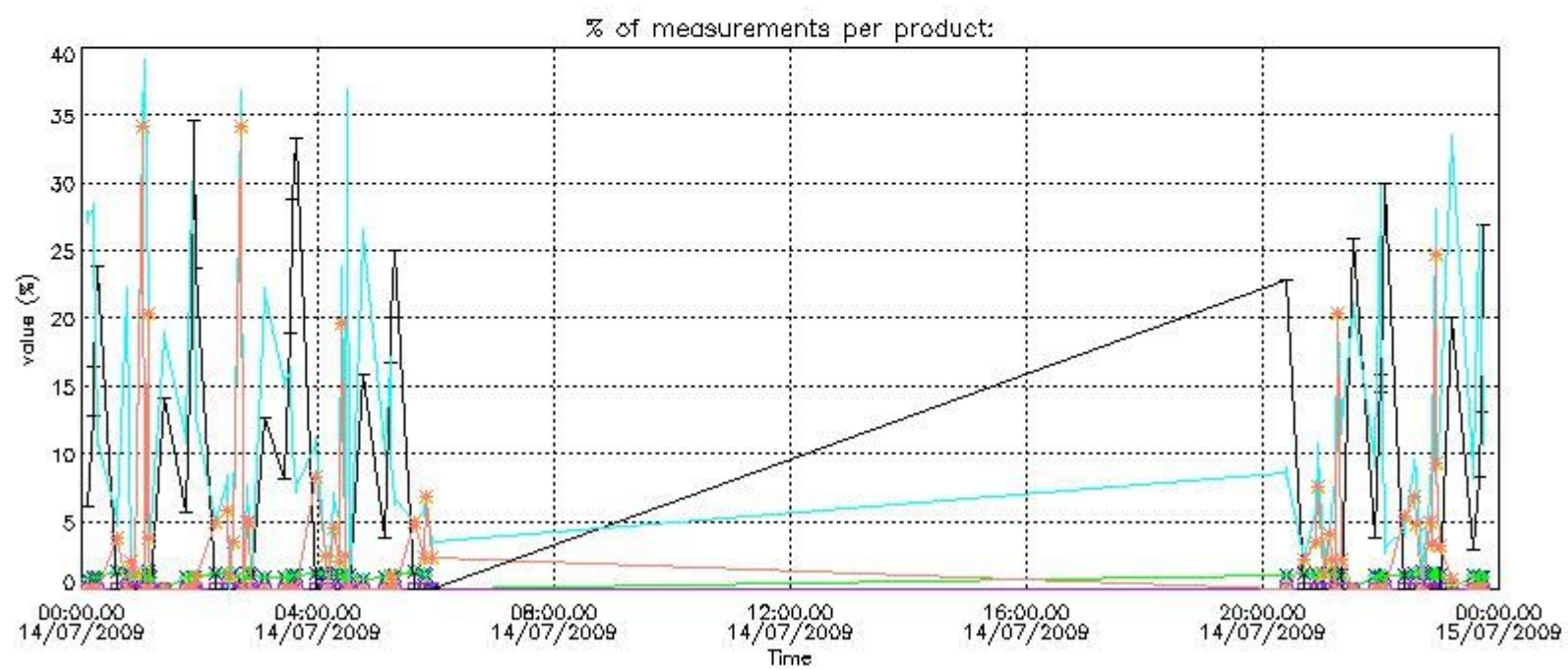
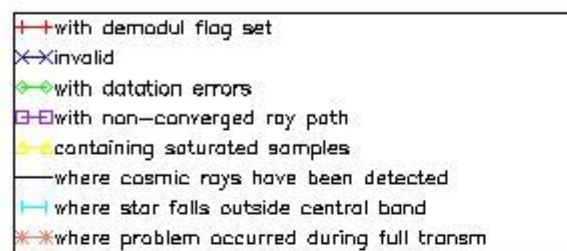
5. Demodulation flag and quality information monitoring

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.

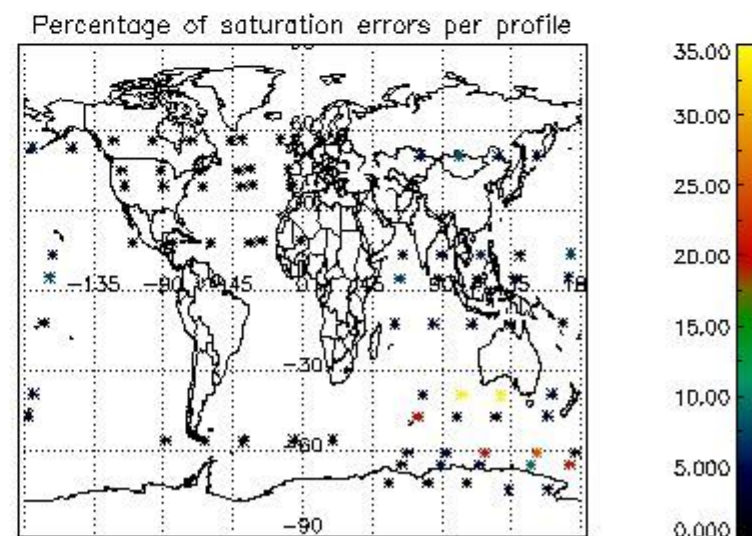
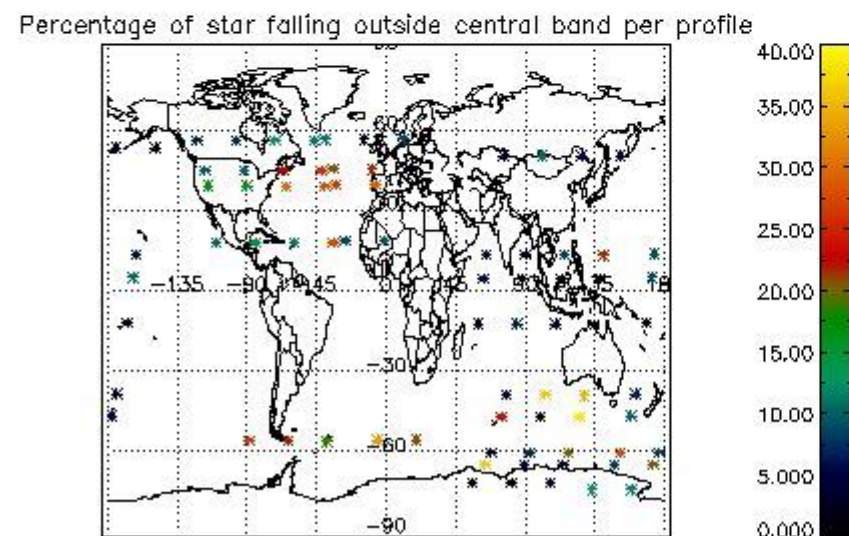
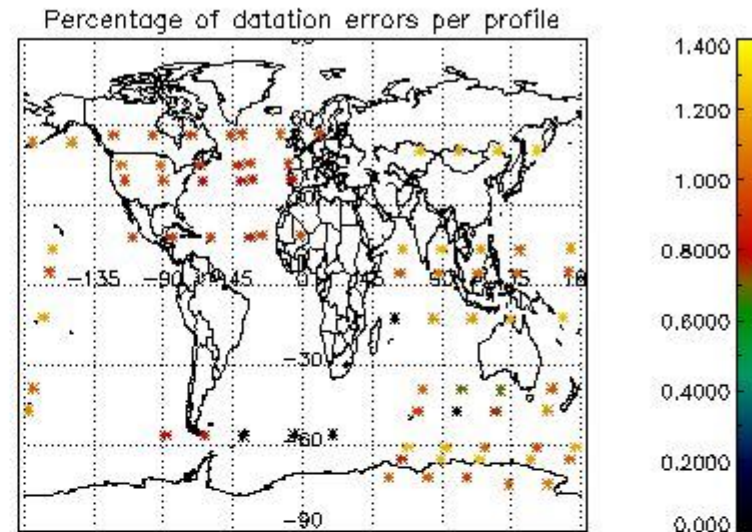
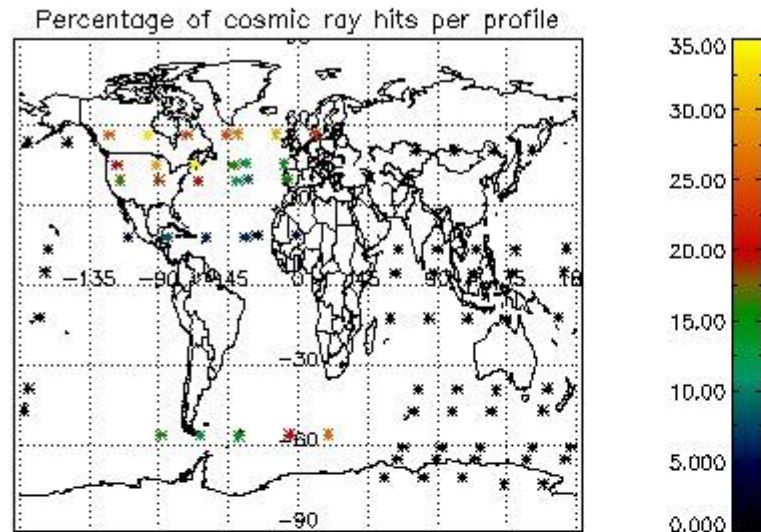
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.5823 %
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)



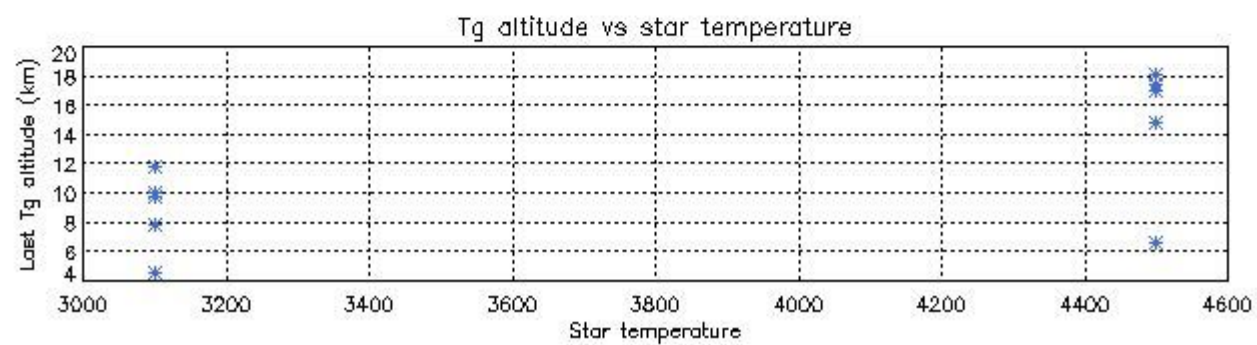
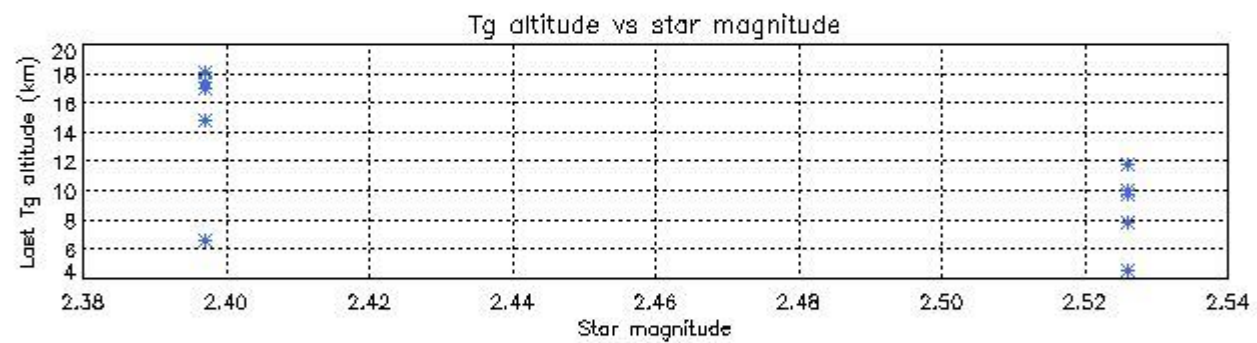
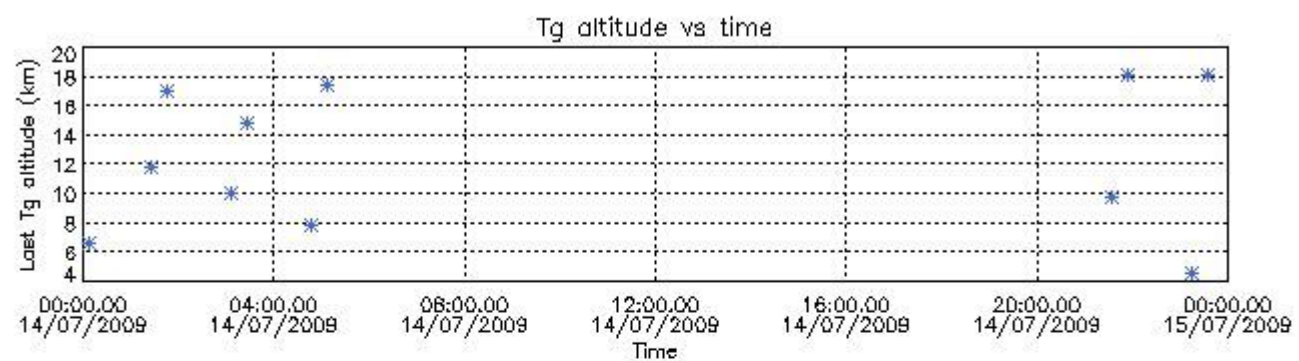
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.346	19.222	NaN
St. deviation:	4.9552	6.2938	NaN
Maximum:	18.040	28.371	NaN
Minimum:	4.5314	3.2635	NaN
Number of data:	11.000	49.000	NaN

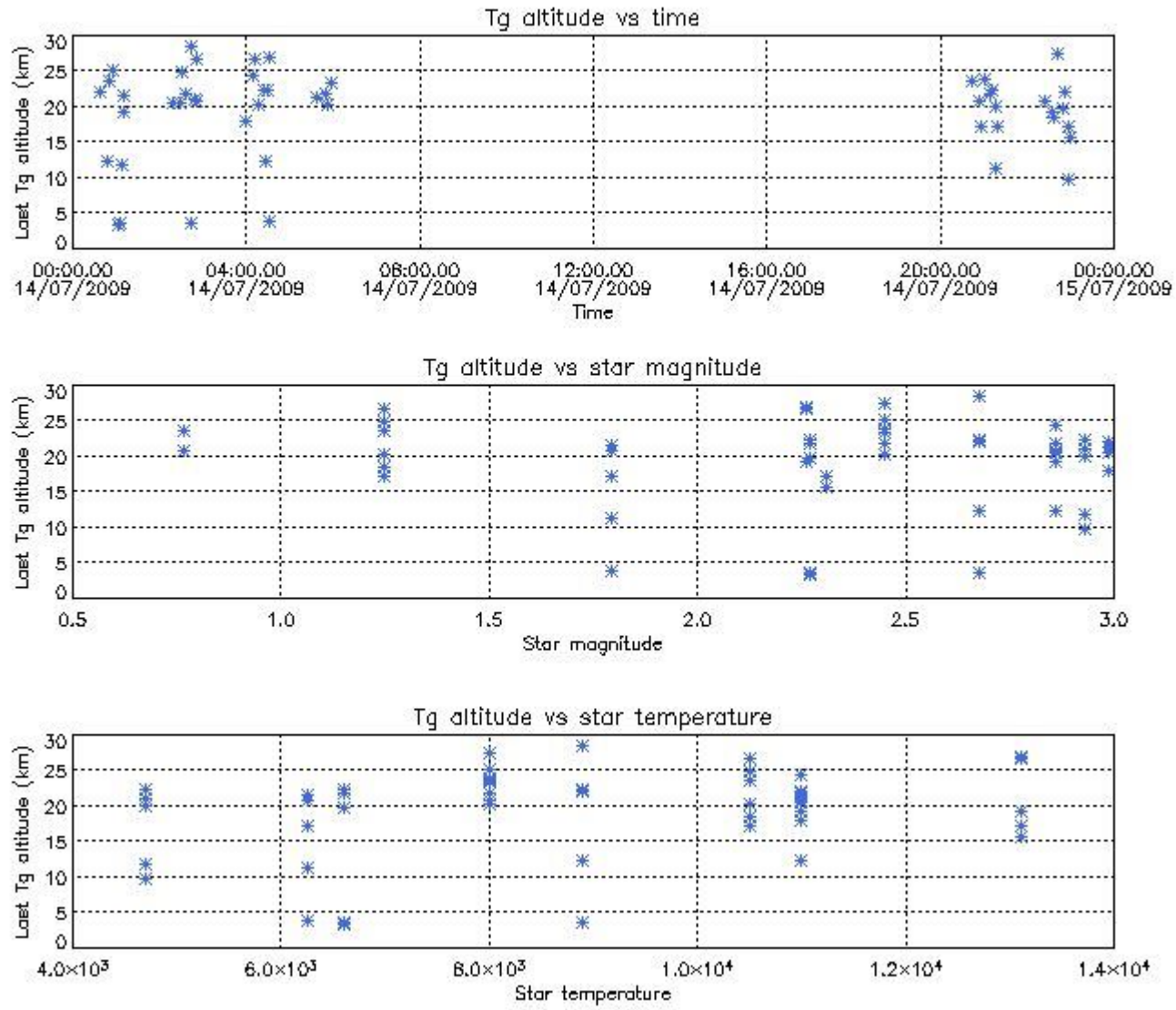
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

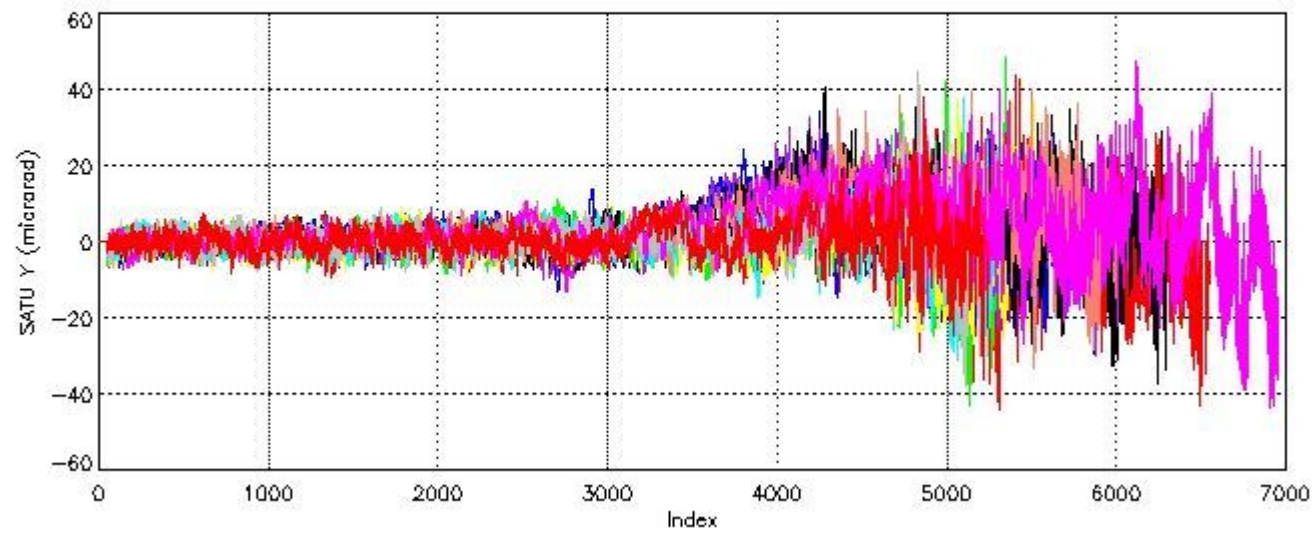
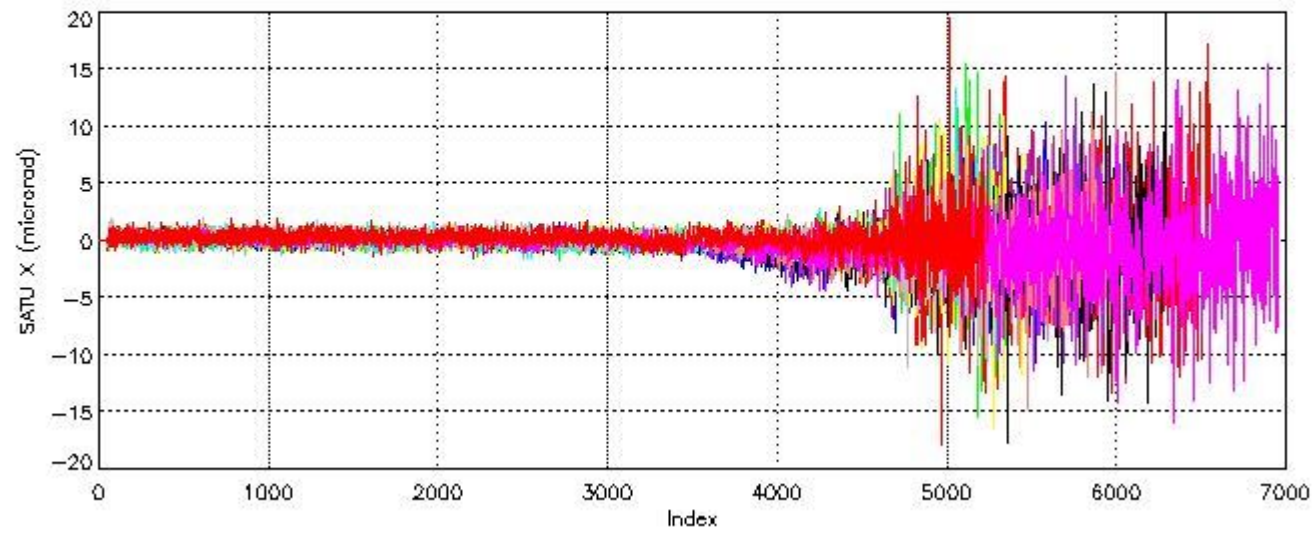


7. Star Acquisition and Tracking Unit (SATU)

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:	0.23346	-0.16342	0.24260	-0.18669
St. deviation:	0.37782	2.2563	0.93974	3.4908
Maximum:	2.0000	7.5000	6.3000	13.900
Minimum:	-1.3000	-8.2000	-6.0000	-14.000

Number of data:	13250.	13250.	51900.	51900.
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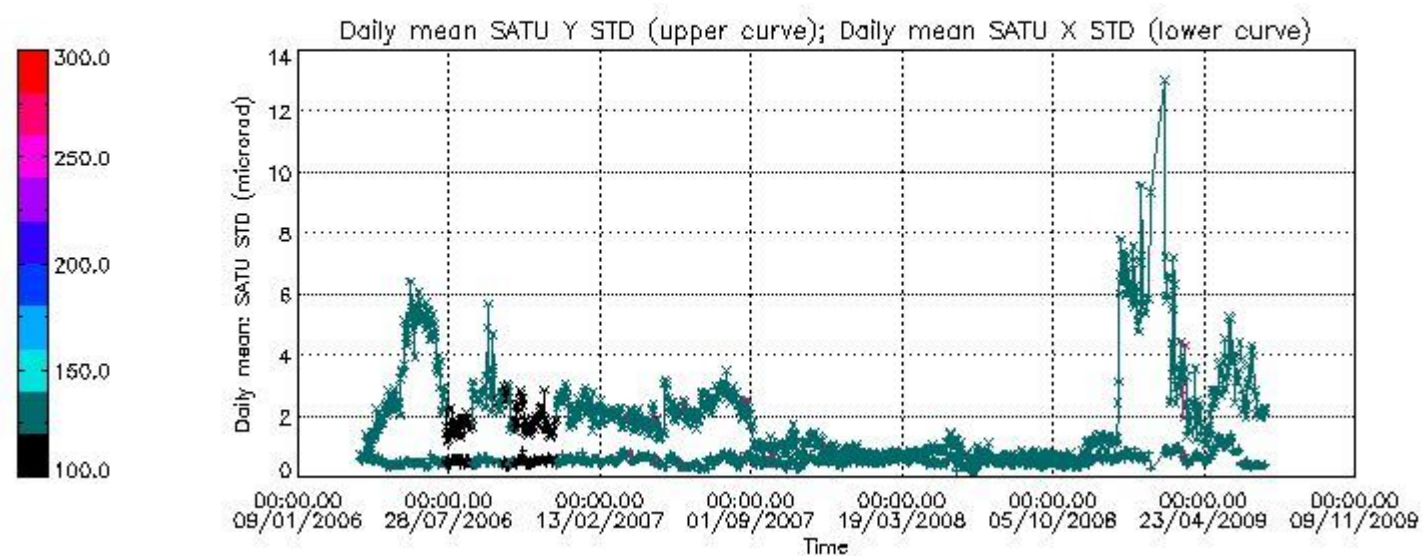
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

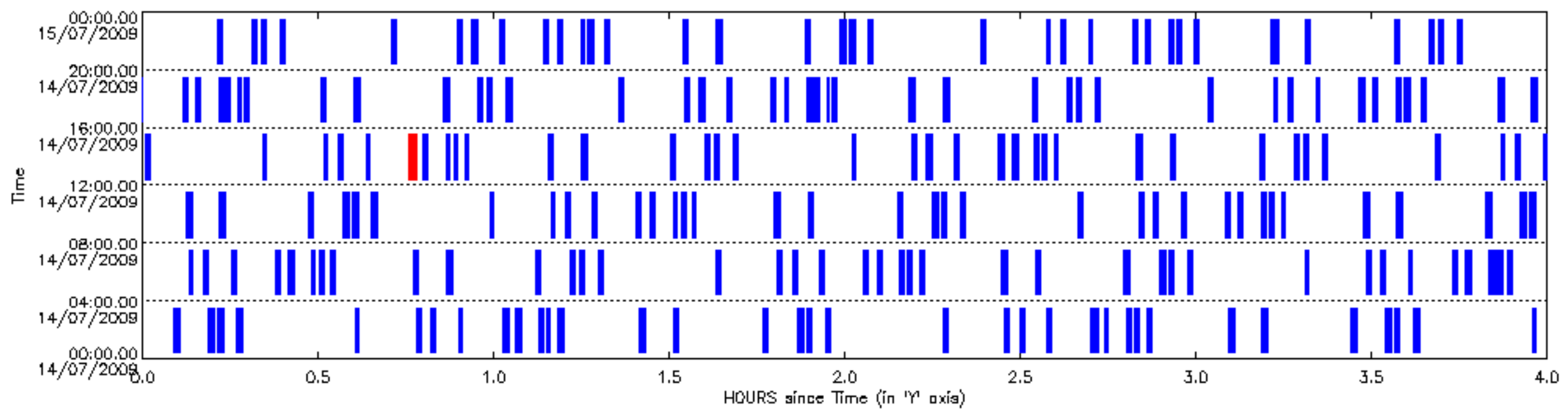
Lower curve: STD of SATU X axis

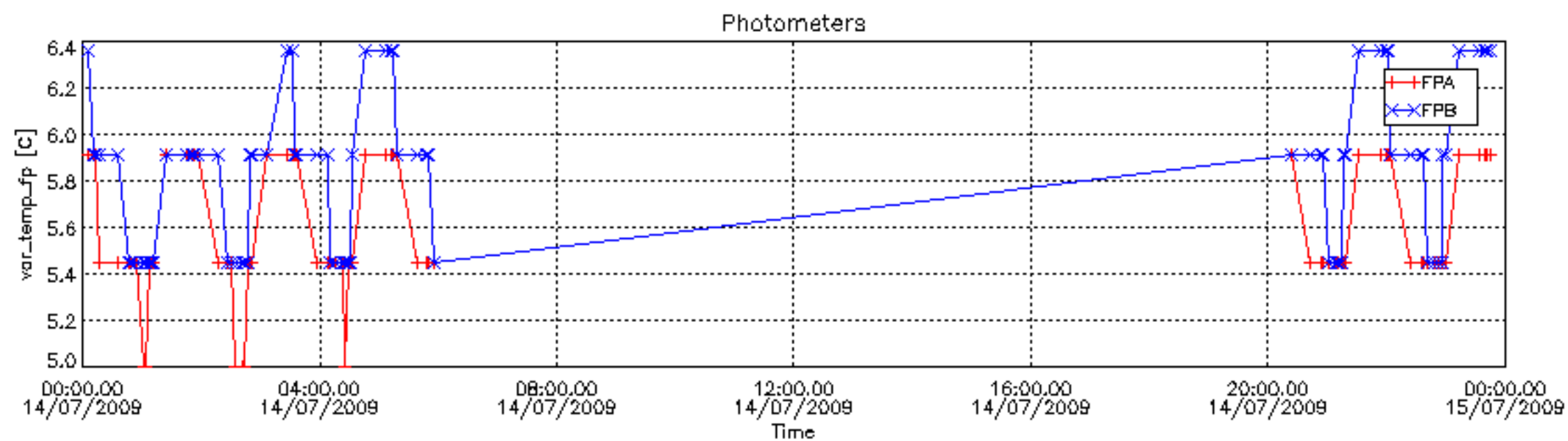
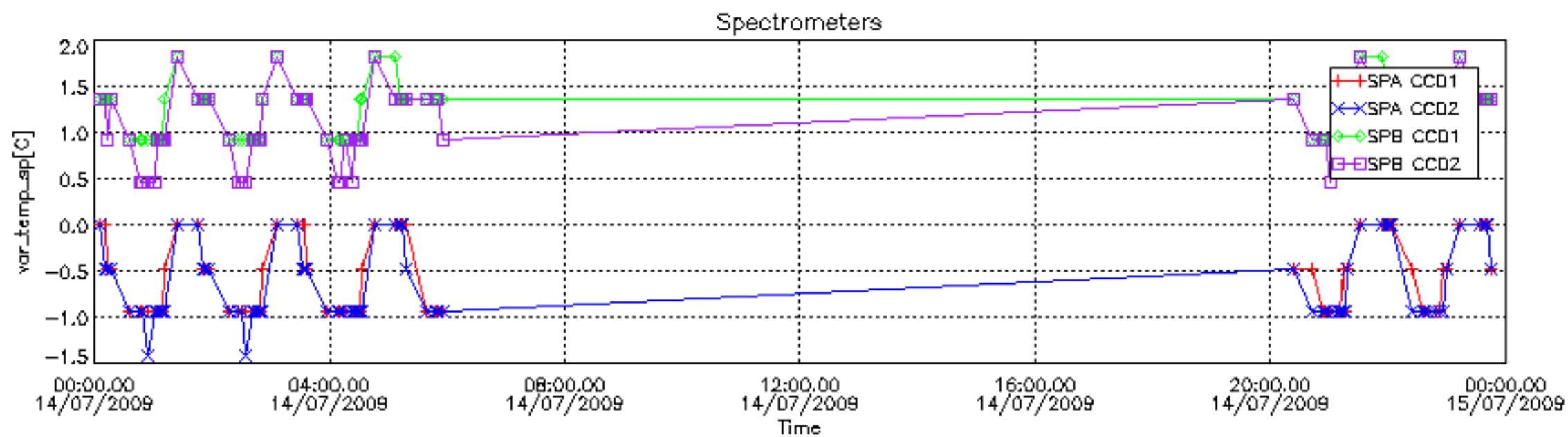


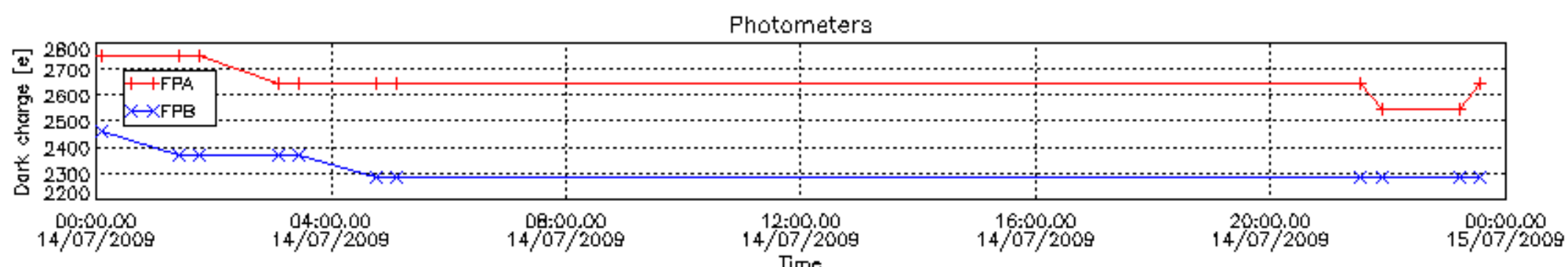
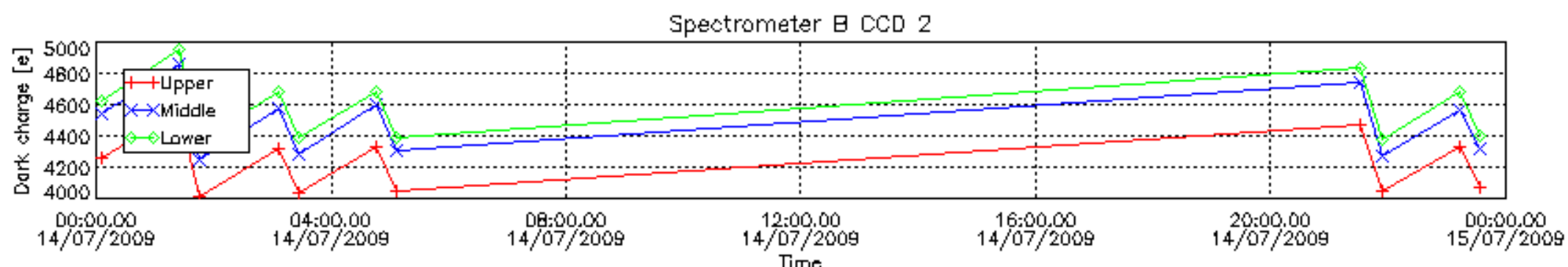
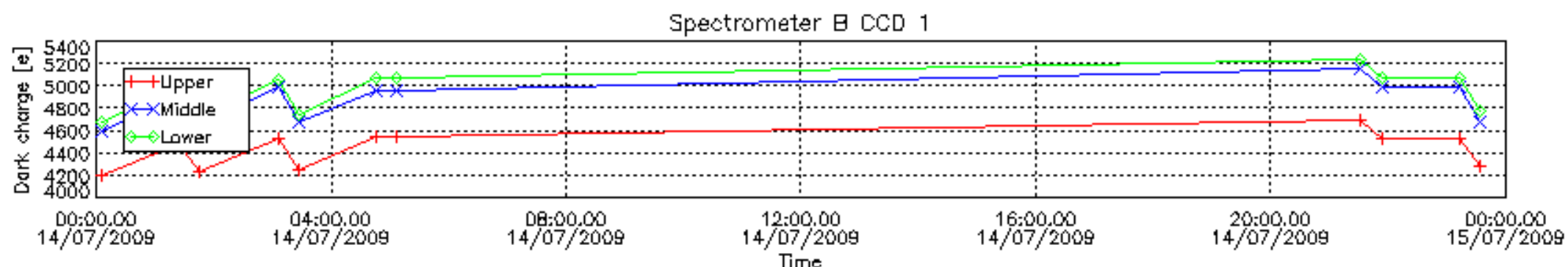
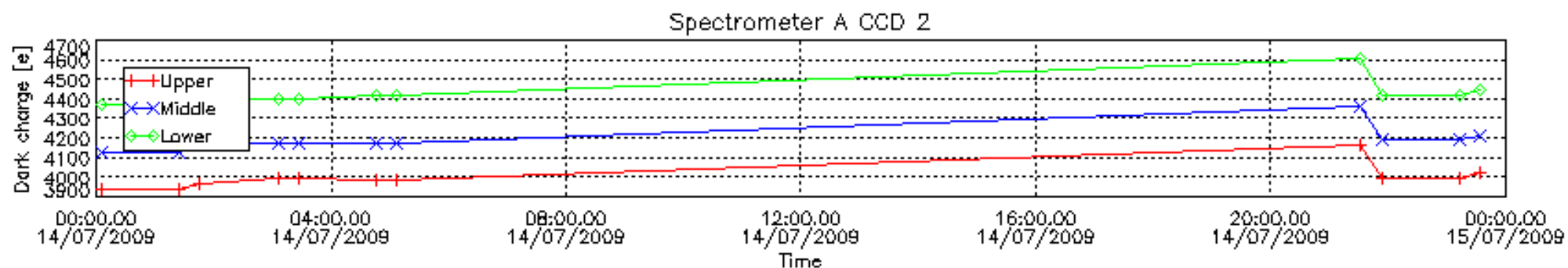
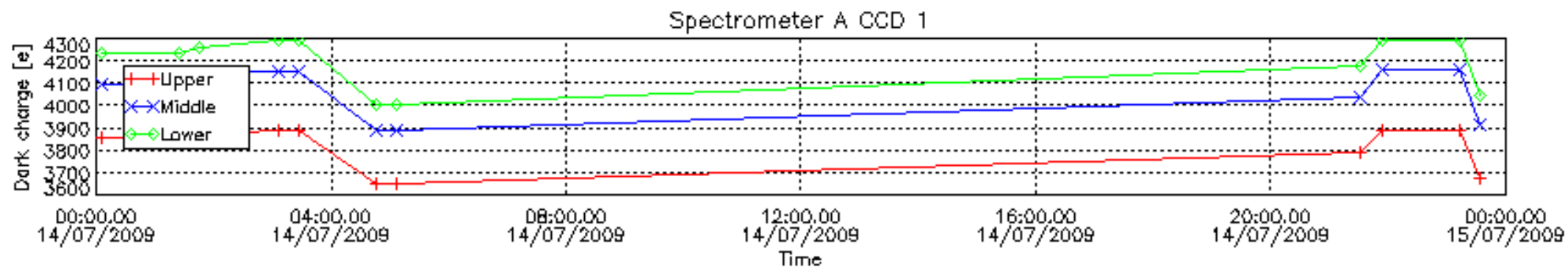
8. Auxiliary Data Files used for the production reported in section 2.4

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.

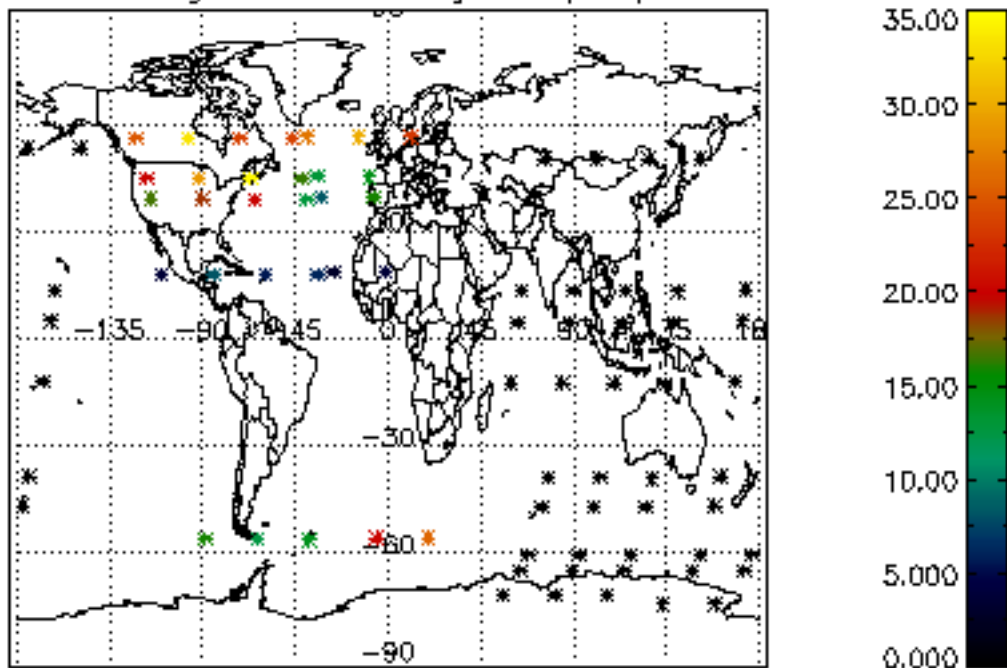
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	14-JUL-2009 00:05:14
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090708_092624_20090706_000000_20100101_000000	1	14-JUL-2009 00:05:14
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090714_102335_20090712_000000_20100101_000000	51	14-JUL-2009 20:23:22
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	14-JUL-2009 00:05:14
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-JUL-2009 00:05:14
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	14-JUL-2009 00:05:14
ECMWF_FILE	AUX_ECF_AXNECM20090713_064112_20090713_210000_20090714_090000	1	14-JUL-2009 00:05:14
ECMWF_FILE	AUX_ECF_AXNECM20090713_184112_20090714_030000_20090714_150000	37	14-JUL-2009 04:22:36
ECMWF_FILE	AUX_ECF_AXNECM20090714_064111_20090714_150000_20090715_030000	51	14-JUL-2009 20:23:22
ECMWF_FILE	AUX_ECF_AXNECM20090714_064112_20090714_210000_20090715_090000	62	14-JUL-2009 21:53:16
OPTIONAL_ECMWF_FILE	MISSING	1	14-JUL-2009 00:05:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090713_220124_000060572080_00401_38531_8347.N1	1	14-JUL-2009 00:05:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090713_234740_000054192080_00402_38532_8348.N1	15	14-JUL-2009 01:45:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090714_012318_000044632080_00403_38533_8349.N1	25	14-JUL-2009 02:48:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090714_024300_000054192080_00404_38534_8350.N1	37	14-JUL-2009 04:22:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090714_202019_000041442080_00415_38545_8352.N1	51	14-JUL-2009 20:23:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090714_212923_000060572080_00415_38545_8353.N1	76	14-JUL-2009 23:33:53



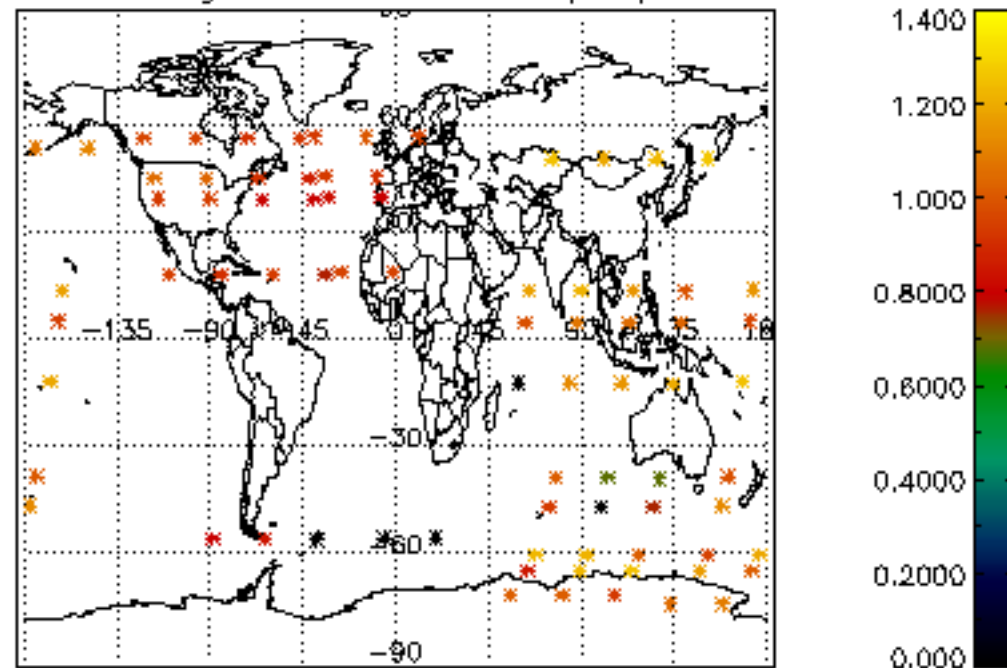




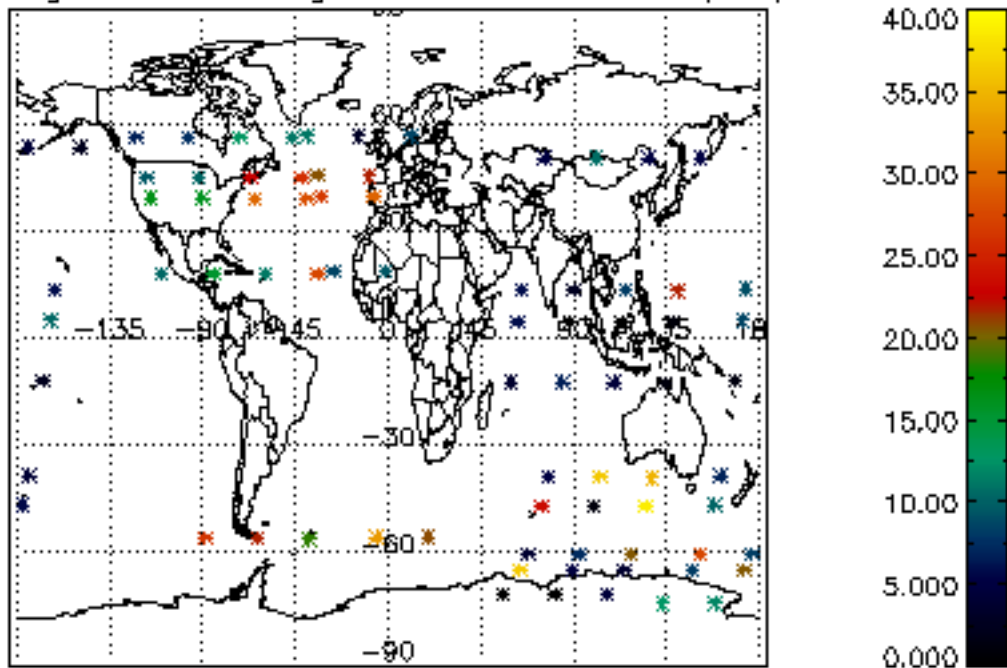
Percentage of cosmic ray hits per profile



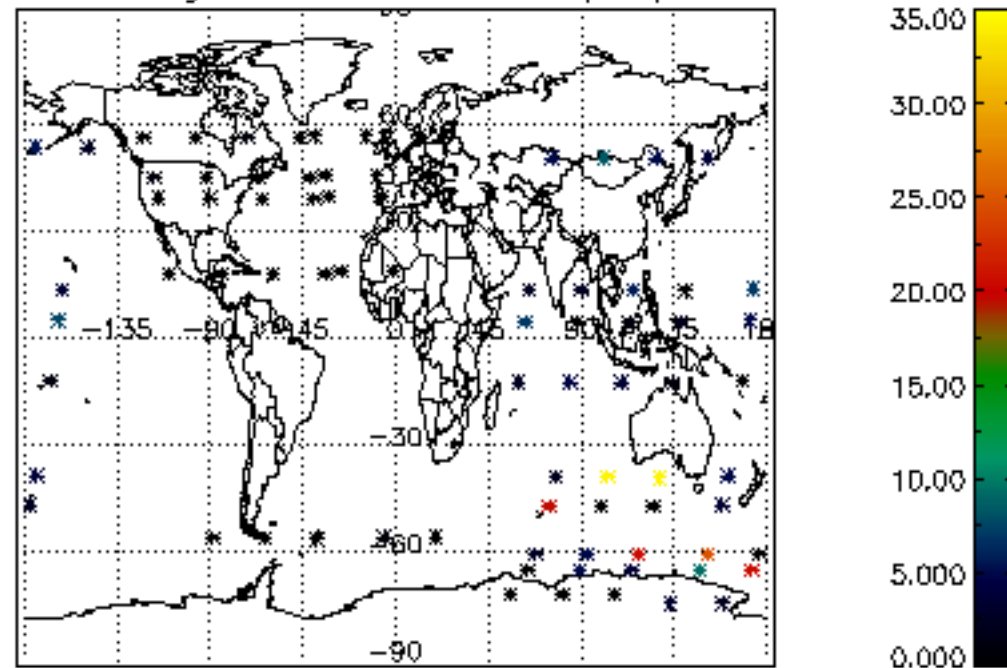
Percentage of datation errors per profile



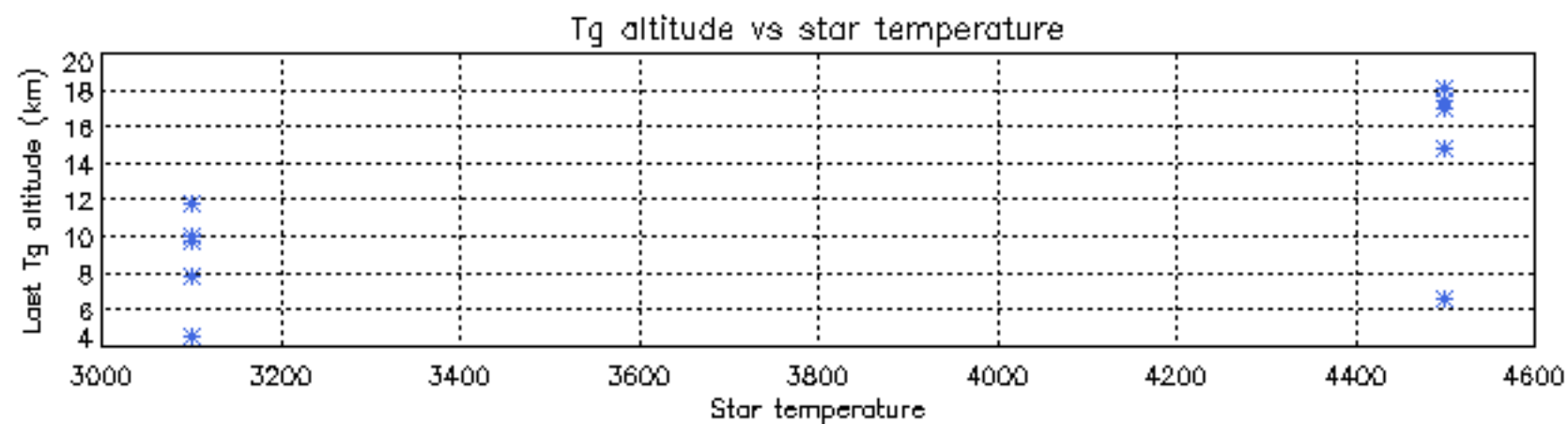
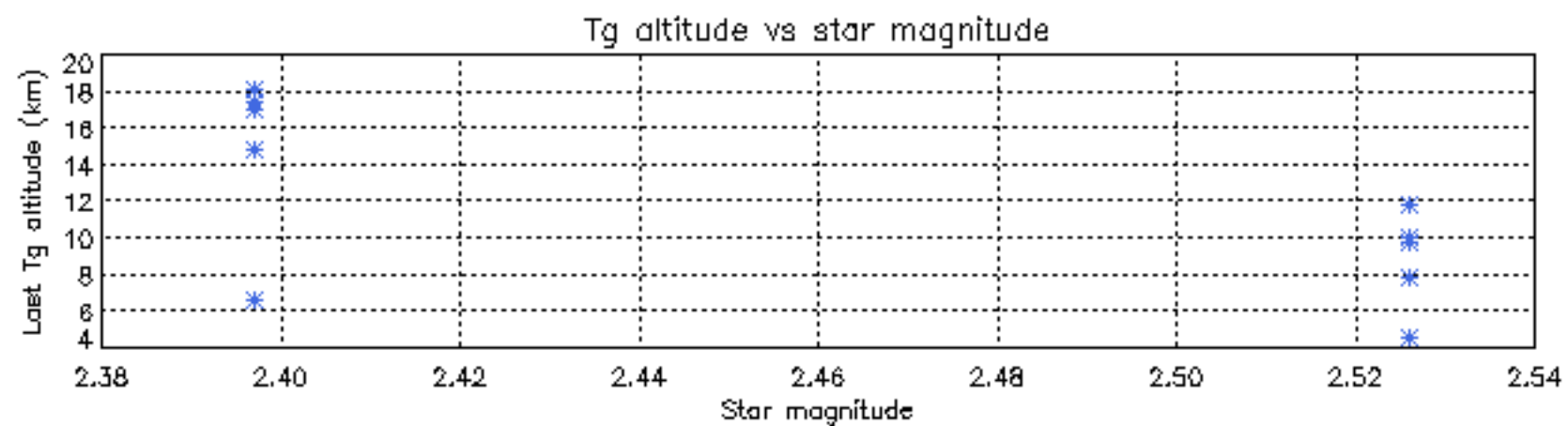
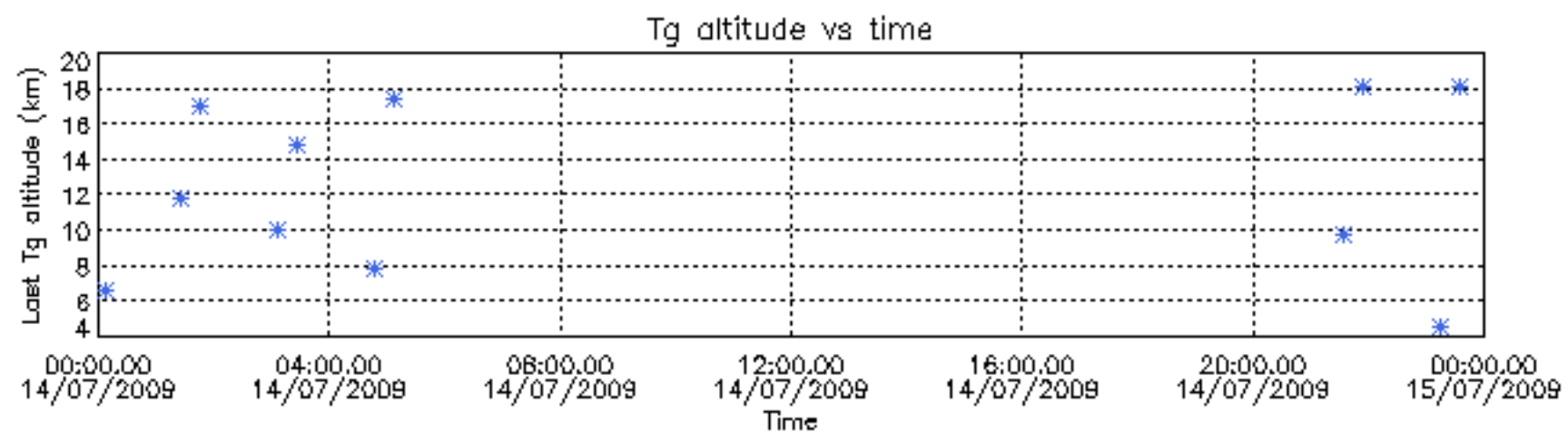
Percentage of star falling outside central band per profile



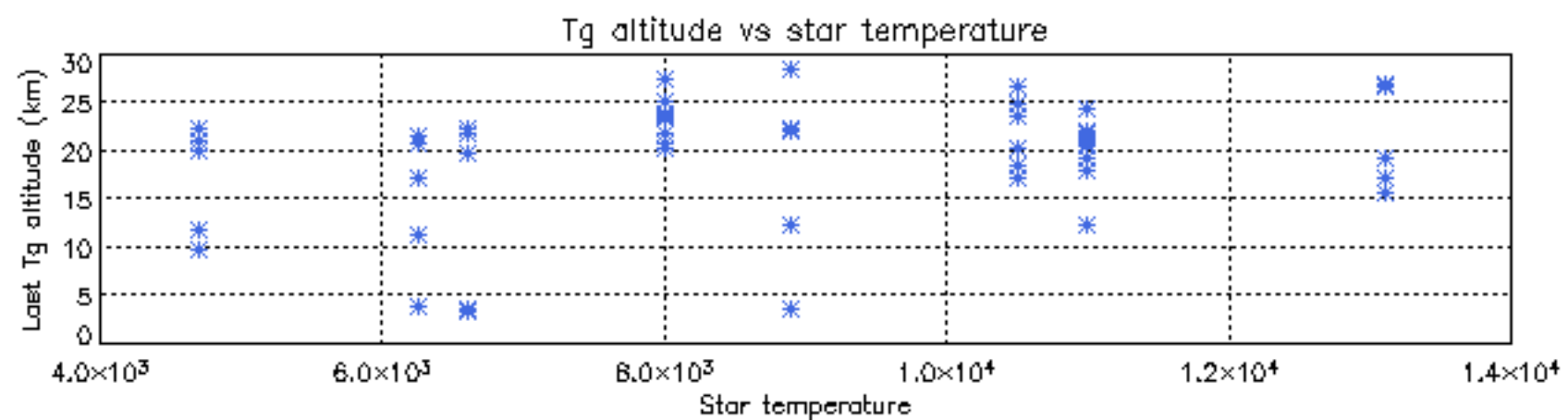
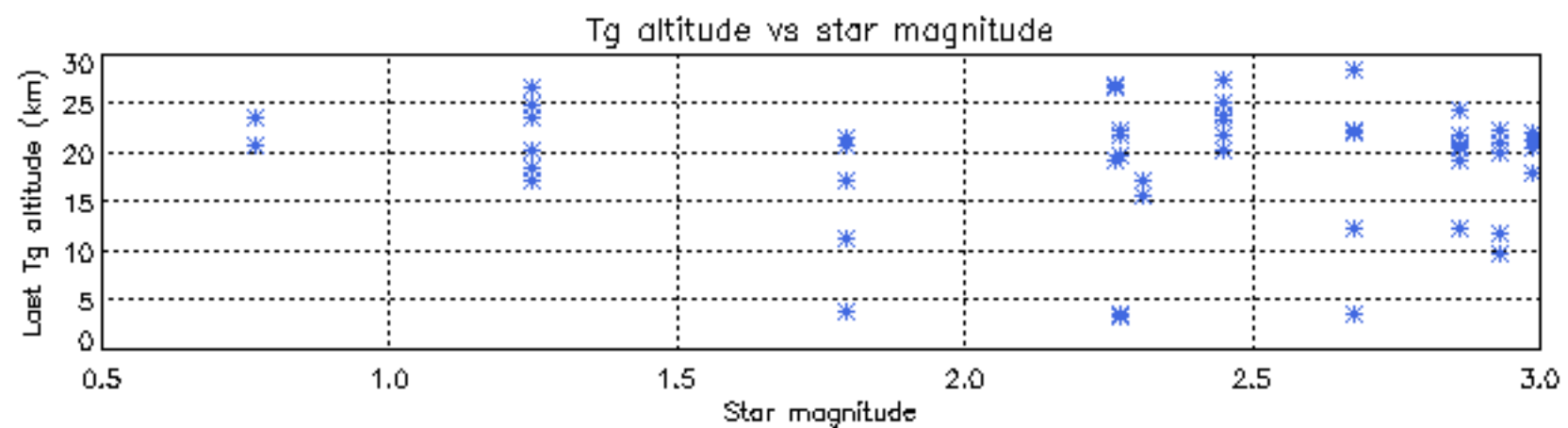
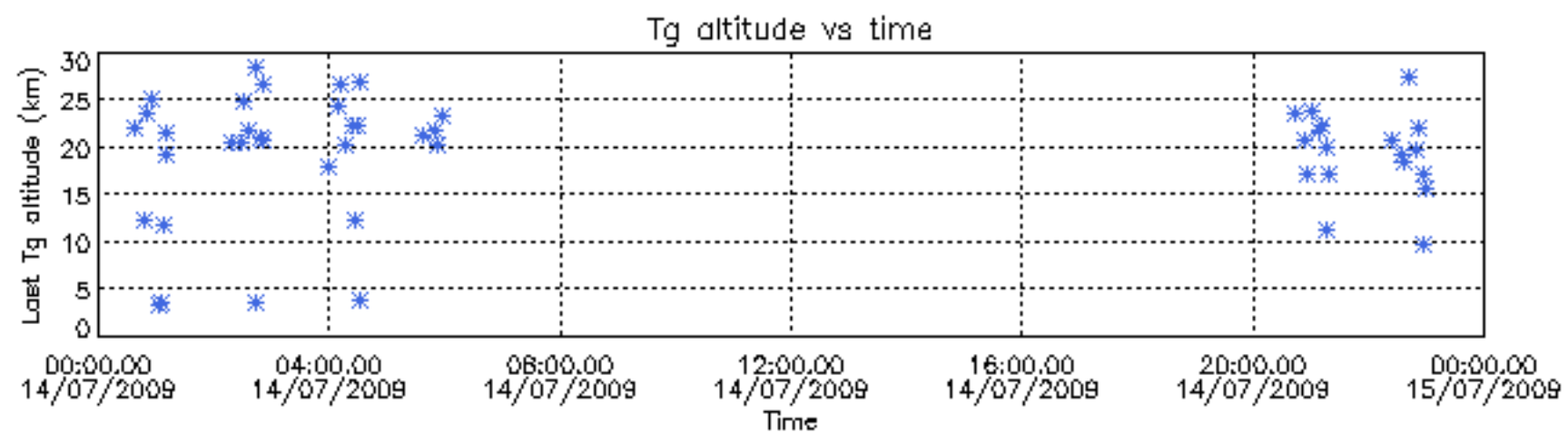
Percentage of saturation errors per profile

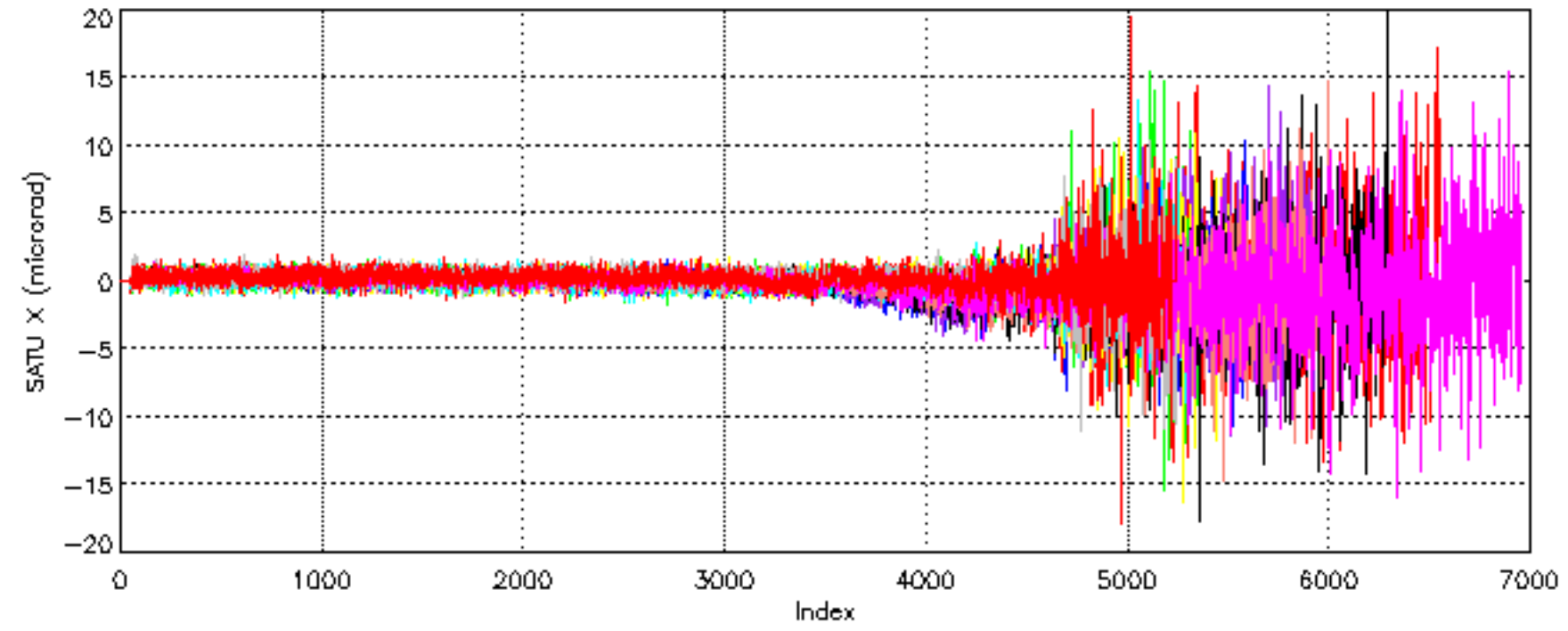


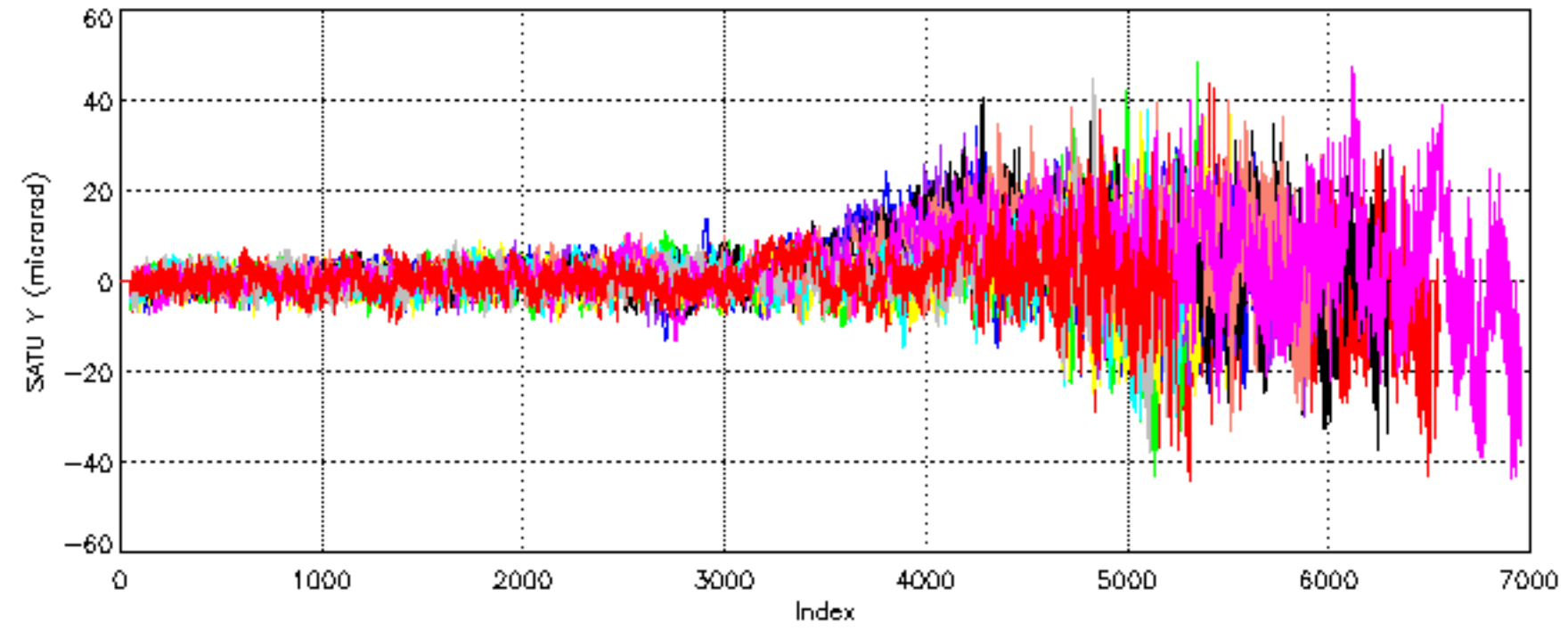
Tangent altitude at which the star is lost

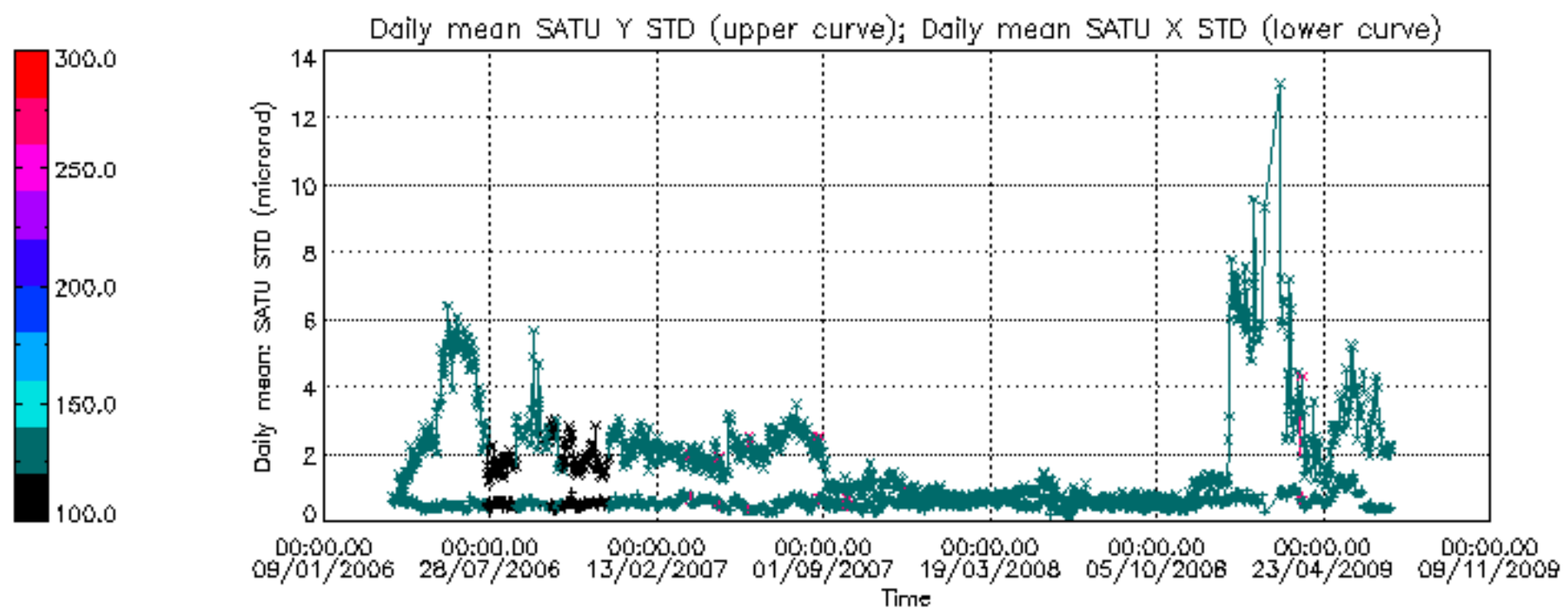


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__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

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1; -2251.9; 01-JUL-2009 04:33:06; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;38349
 2; -2158.9; 01-JUL-2009 04:34:39; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38349
 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
 5; -1355.2; 01-JUL-2009 04:48:03; Dark ; 39.5; 50; 13Alp Ari ; 2.01; 4250;occ; 79; 0;38349
 6; -530.7; 01-JUL-2009 05:01:47; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38349
 7; 101.2; 01-JUL-2009 05:12:19; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;38350
 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
 12; 2230.2; 01-JUL-2009 05:47:48; Bright; 49.5; 168; 17Zet Aql ; 2.99; 11000;occ; 99; 0;38350
 13; 2650.4; 01-JUL-2009 05:54:48; Bright; 46.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 92; 0;38350
 14; 2920.4; 01-JUL-2009 05:59:18; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38350
 15; 3341.8; 01-JUL-2009 06:06:20; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38350

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1; 1483.3; 01-JUL-2009 20:40:45; Bright; 42.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 84; 0;38359
 2; 2225.6; 01-JUL-2009 20:53:07; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38359
 3; 2646.2; 01-JUL-2009 21:00:07; Bright; 40.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 81; 0;38359
 4; 2912.3; 01-JUL-2009 21:04:34; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38359
 5; 3335.3; 01-JUL-2009 21:11:37; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38359
 6; 3778.7; 01-JUL-2009 21:19:00; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38359
 7; 3874.0; 01-JUL-2009 21:20:35; Bright; 34.5; 110; 37Del Cas ; 2.68; 8900;occ; 69; 0;38359
 8; 4265.9; 01-JUL-2009 21:27:07; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38359
 9; 4425.8; 01-JUL-2009 21:29:47; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38359
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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
 4; 615.0; 01-JUL-2009 22:06:52; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38360
 5; 790.6; 01-JUL-2009 22:09:48; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38360
 6; 1483.4; 01-JUL-2009 22:21:21; Bright; 41.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 83; 0;38360
 7; 2225.1; 01-JUL-2009 22:33:42; Bright; 48.5; 168; 17Zet Aql ; 2.99; 11000;occ; 97; 0;38360
 8; 2645.5; 01-JUL-2009 22:40:43; Bright; 44.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 88; 0;38360
 9; 2911.6; 01-JUL-2009 22:45:09; Bright; 48.0; 144; 18Del Cyg ; 2.86; 11000;occ; 96; 0;38360
 10; 3334.6; 01-JUL-2009 22:52:12; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38360
 11; 3778.2; 01-JUL-2009 22:59:35; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38360
 12; 3873.5; 01-JUL-2009 23:01:11; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38360
 13; 4265.9; 01-JUL-2009 23:07:43; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38360
 14; 4426.0; 01-JUL-2009 23:10:23; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38360
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 3; 500.5; 01-JUL-2009 23:45:34; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38361
 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
 7; 2224.7; 02-JUL-2009 00:14:18; Bright; 45.0; 168; 17Zet Aql ; 2.99; 11000;occ; 90; 0;38361
 8; 2645.1; 02-JUL-2009 00:21:18; Bright; 50.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 100; 0;38361
 9; 2910.7; 02-JUL-2009 00:25:44; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38361
 10; 3334.3; 02-JUL-2009 00:32:47; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38361
 11; 3777.9; 02-JUL-2009 00:40:11; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;38361
 12; 3872.8; 02-JUL-2009 00:41:46; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;38361
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 3; -1769.4; 01-JUL-2009 06:21:44; Bright; 35.5; 73; 57Gam1And ; 2.26; 13100;occ; 71; 0;38350
 4; -1610.7; 01-JUL-2009 06:24:23; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38350
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 8; 491.1; 01-JUL-2009 06:59:25; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38351
 9; 607.2; 01-JUL-2009 07:01:21; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38351
 10; 781.0; 01-JUL-2009 07:04:15; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 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
 5; 3782.9; 01-JUL-2009 07:54:17; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38351
 6; 3876.3; 01-JUL-2009 07:55:50; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 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
 14; 6817.9; 01-JUL-2009 08:44:52; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38351
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 3; -1350.7; 02-JUL-2009 02:35:54; Dark ; 40.5; 50; 13Alp Ari ; 2.01; 4250;occ; 81; 0;38362
 4; -519.1; 02-JUL-2009 02:49:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38362
 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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 7; 617.7; 02-JUL-2009 03:08:42; Dark ; 52.5; 31; Alp Gru ; 1.73; 15200;occ; 105; 0;38363


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10; 2223.5; 02-JUL-2009 03:35:28; Bright; 70.0; 168; 17Zet Aql ; 2.99; 11000;occ; 140; 0;38363
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12; 2909.2; 02-JUL-2009 03:46:54; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38363
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4; -1609.7; 02-JUL-2009 04:12:11; Dark ; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;38363
5; -1350.3; 02-JUL-2009 04:16:30; Dark ; 41.0; 50; 13Alp Ari ; 2.01; 4250;occ; 82; 0;38363
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7; 115.7; 02-JUL-2009 04:40:57; Dark ; 59.0; 84; Alp Phe ; 2.40; 4500;occ; 118; 0;38364
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9; 618.6; 02-JUL-2009 04:49:19; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38364
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3; -1770.4; 02-JUL-2009 05:50:06; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38364
4; -1609.5; 02-JUL-2009 05:52:47; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38364
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12; 2222.5; 02-JUL-2009 06:56:39; Bright; 49.0; 168; 17Zet Aql ; 2.99; 11000;occ; 98; 0;38365
13; 2643.5; 02-JUL-2009 07:03:40; Bright; 45.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 91; 0;38365
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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
4; 2639.5; 02-JUL-2009 20:28:24; Bright; 45.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 91; 0;38373
5; 2900.7; 02-JUL-2009 20:32:45; Bright; 49.5; 144; 18Del Cyg ; 2.86; 11000;occ; 99; 0;38373
6; 3326.2; 02-JUL-2009 20:39:50; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38373
7; 3771.1; 02-JUL-2009 20:47:15; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;38373
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9; 4264.8; 02-JUL-2009 20:55:29; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38373
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5; 805.1; 02-JUL-2009 21:38:25; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38374
6; 1486.1; 02-JUL-2009 21:49:46; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;38374
7; 2217.8; 02-JUL-2009 22:01:58; Bright; 69.0; 168; 17Zet Aql ; 2.99; 11000;occ; 138; 0;38374
8; 2639.3; 02-JUL-2009 22:08:59; Bright; 42.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 84; 0;38374
9; 2899.7; 02-JUL-2009 22:13:20; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38374
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13; 4264.7; 02-JUL-2009 22:36:05; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38374
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5; -1349.5; 02-JUL-2009 07:37:43; Dark ; 41.0; 50; 13Alp Ari ; 2.01; 4250;occ; 82; 0;38365
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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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 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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 10; 681.3; 07-JUL-2009 07:14:05; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38437
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 3; 3284.4; 07-JUL-2009 07:57:28; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 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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 7; 4431.4; 07-JUL-2009 16:39:34; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;38442
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5; 3845.6; 07-JUL-2009 19:51:00; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38444
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6; 4256.9; 08-JUL-2009 09:22:39; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;38452
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5; 3813.2; 13-JUL-2009 13:19:34; Bright; 52.0; 110; 37Del Cas ; 2.68; 8900;occ; 104; 0;38526
6; 4044.9; 13-JUL-2009 13:23:26; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;38526

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 13; 6350.9; 14-JUL-2009 20:12:39; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;38544
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 7; 2783.0; 15-JUL-2009 01:55:34; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38548
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 9; 3215.4; 15-JUL-2009 02:02:47; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;38548
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 5; -598.4; 15-JUL-2009 02:39:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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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 11; 2782.6; 15-JUL-2009 03:36:10; Bright; 43.0; 144; 18Del Cyg ; 2.86; 11000;occ; 86; 0;38549
 12; 2927.1; 15-JUL-2009 03:38:34; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38549
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 3; -1994.7; 15-JUL-2009 03:57:09; Bright; 61.0; 160; 23Gam Per ; 2.93; 4700;occ; 122; 0;38549
 4; -1914.3; 15-JUL-2009 03:58:29; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38549
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 6; -944.0; 15-JUL-2009 04:14:39; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 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
 10; 769.2; 15-JUL-2009 04:43:12; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;38550
 11; 961.6; 15-JUL-2009 04:46:25; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38550
 12; 2109.0; 15-JUL-2009 05:05:32; Bright; 46.0; 11; 53Alp Aql ; 0.76; 8000;occ; 92; 0;38550
 13; 2782.0; 15-JUL-2009 05:16:45; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38550
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 4; -1914.7; 15-JUL-2009 05:39:05; Bright; 43.0; 35; 33Alp Per ; 1.79; 6250;occ; 86; 0;38550
 5; -1738.8; 15-JUL-2009 05:42:00; Bright; 48.0; 79; 26Bet Per ; 2.31; 13100;occ; 96; 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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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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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
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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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9; 4297.0; 15-JUL-2009 12:24:24; Bright; 44.5; 79; 26Bet Per ; 2.31; 13100;occ; 89; 0;38554
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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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8; 4297.1; 15-JUL-2009 14:05:00; Bright; 44.0; 79; 26Bet Per ; 2.31; 13100;occ; 88; 0;38555
9; 5096.4; 15-JUL-2009 14:18:19; Dark ; 56.5; 94; 92Alp Cet ; 2.53; 3100;occ; 113; 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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4; 2918.6; 15-JUL-2009 20:24:25; Bright; 52.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 104; 0;38559
5; 3209.0; 15-JUL-2009 20:29:16; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38559
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7; 2105.0; 15-JUL-2009 21:51:28; Bright; 48.5; 11; 53Alp Aql ; 0.76; 8000;occ; 97; 0;38560
8; 2776.6; 15-JUL-2009 22:02:39; Bright; 43.0; 144; 18Del Cyg ; 2.86; 11000;occ; 86; 0;38560
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7; 3761.5; 16-JUL-2009 21:47:27; Bright; 53.5; 68; 18Alp Cas ; 2.22; 4500;occ; 107; 0;38574

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8; 695.2; 17-JUL-2009 03:38:44; Dark ; 54.0; 63; Bet Gru ; 2.15; 2800;occ; 108; 0;38578
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6; 3757.1; 17-JUL-2009 09:31:34; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;38581
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 13; 5471.2; 17-JUL-2009 15:01:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38584
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 15; 6736.7; 17-JUL-2009 15:23:01; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 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
 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
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 16; 6831.7; 17-JUL-2009 18:45:48; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 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
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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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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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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
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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
8; -556.8; 18-JUL-2009 04:26:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38592
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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
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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
 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
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 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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 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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 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
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 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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 9; 4099.5; 25-JUL-2009 18:49:08; Bright; 45.0; 35; 33Alp Per ; 1.79; 6250;occ; 90; 0;38701
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 13; 4757.8; 25-JUL-2009 19:00:06; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;38701
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 17; 6531.2; 25-JUL-2009 19:29:39; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;38701
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6; 1063.4; 26-JUL-2009 00:40:55; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38705
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8; 2631.9; 26-JUL-2009 02:47:40; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38706
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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
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17; 6919.2; 27-JUL-2009 10:09:54; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;38724
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3; 2800.9; 27-JUL-2009 10:41:52; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38725
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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11; 4670.3; 27-JUL-2009 11:13:01; Dark ; 53.5; 146; 25Eta Tau ; 2.87; 15200;occ; 107; 0;38725
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
15; 5951.9; 27-JUL-2009 11:34:23; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;38725
16; 6558.0; 27-JUL-2009 11:44:29; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38725
17; 6919.9; 27-JUL-2009 11:50:30; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 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
5; 3531.0; 27-JUL-2009 12:34:37; Bright; 51.5; 74; 11Bet Cas ; 2.27; 6600;occ; 103; 0;38726
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7; 4000.7; 27-JUL-2009 12:42:27; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;38726
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
 13; 5391.2; 27-JUL-2009 13:05:38; Dark ; 51.0; 165; 34Gam Eri ; 2.95; 3200;occ; 102; 0;38726
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 16; 6559.2; 27-JUL-2009 13:25:06; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38726
 17; 6920.5; 27-JUL-2009 13:31:07; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38726
 18; 7111.4; 27-JUL-2009 13:34:18; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 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
 4; 3119.4; 27-JUL-2009 15:48:58; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38728
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 9; 4284.4; 27-JUL-2009 16:08:23; Bright; 56.5; 79; 26Bet Per ; 2.31; 13100;occ; 113; 0;38728
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 11; 4671.5; 27-JUL-2009 16:14:50; Dark ; 54.0; 146; 25Eta Tau ; 2.87; 15200;occ; 108; 0;38728
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 13; 5392.9; 27-JUL-2009 16:26:51; Dark ; 53.0; 165; 34Gam Eri ; 2.95; 3200;occ; 106; 0;38728
 14; 5641.3; 27-JUL-2009 16:31:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38728
 15; 5955.0; 27-JUL-2009 16:36:13; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 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
 18; 7112.8; 27-JUL-2009 16:55:31; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 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
 4; 3119.1; 27-JUL-2009 17:29:33; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;38729
 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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 8; 4093.9; 27-JUL-2009 17:45:48; Bright; 66.0; 35; 33Alp Per ; 1.79; 6250;occ; 132; 0;38729
 9; 4284.4; 27-JUL-2009 17:48:59; Bright; 54.5; 79; 26Bet Per ; 2.31; 13100;occ; 109; 0;38729
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 12; 4767.4; 27-JUL-2009 17:57:02; Dark ; 46.5; 13; 87Alp Tau ; 0.87; 3800;occ; 93; 0;38729
 13; 5393.8; 27-JUL-2009 18:07:28; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;38729
 14; 5642.7; 27-JUL-2009 18:11:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38729
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 16; 6562.6; 27-JUL-2009 18:26:57; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38729
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 3; 2065.4; 27-JUL-2009 18:52:36; Bright; 38.0; 11; 53Alp Aql ; 0.76; 8000;occ; 76; 0;38730
 4; 2615.5; 27-JUL-2009 19:01:46; Bright; 46.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 92; 0;38730
 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
 9; 3637.6; 27-JUL-2009 19:18:48; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38730
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 11; 4093.8; 27-JUL-2009 19:26:24; Bright; 47.5; 35; 33Alp Per ; 1.79; 6250;occ; 95; 0;38730
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 4; 530.9; 28-JUL-2009 01:09:25; Dark ; 63.0; 84; Alp Phe ; 2.40; 4500;occ; 126; 0;38734
 5; 888.3; 28-JUL-2009 01:15:22; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38734
 6; 1079.4; 28-JUL-2009 01:18:33; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38734
 7; 2064.8; 28-JUL-2009 01:34:59; Bright; 39.5; 11; 53Alp Aql ; 0.76; 8000;occ; 79; 0;38734
 8; 2613.0; 28-JUL-2009 01:44:07; Bright; 48.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 96; 0;38734
 9; 2708.7; 28-JUL-2009 01:45:43; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38734
 10; 2795.6; 28-JUL-2009 01:47:09; Bright; 43.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 87; 0;38734
 11; 3116.6; 28-JUL-2009 01:52:30; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38734
 12; 3524.7; 28-JUL-2009 01:59:19; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38734
 13; 3635.0; 28-JUL-2009 02:01:09; Bright; 65.0; 76; 27Gam Cas ; 2.30; 30000;occ; 130; 0;38734
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 16; 4283.5; 28-JUL-2009 02:11:57; Bright; 54.5; 79; 26Bet Per ; 2.31; 13100;occ; 108; 0;38734
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 4; 532.1; 28-JUL-2009 02:50:02; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38735
 5; 889.0; 28-JUL-2009 02:55:59; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38735
 6; 1079.7; 28-JUL-2009 02:59:09; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38735
 7; 2064.8; 28-JUL-2009 03:15:35; Bright; 40.0; 11; 53Alp Aql ; 0.76; 8000;occ; 80; 0;38735
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 11; 3116.1; 28-JUL-2009 03:33:06; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38735
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 4; -1943.4; 28-JUL-2009 03:49:22; Bright; 49.0; 35; 33Alp Per ; 1.79; 6250;occ; 98; 0;38735
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090731_180748_000060672081_00156_38787_4620.N1
 1; 929.5; 31-JUL-2009 18:07:48; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 24;38787
 2; 1106.1; 31-JUL-2009 18:10:44; Dark ; 46.0; 172; Gam Gru ; 3.00; 13100;occ; 92; 0;38787
 3; 1569.8; 31-JUL-2009 18:18:28; Bright; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;38787
 4; 1824.9; 31-JUL-2009 18:22:43; Bright; 47.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 94; 0;38787
 5; 2581.7; 31-JUL-2009 18:35:20; Bright; 55.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 111; 0;38787
 6; 2768.3; 31-JUL-2009 18:38:27; Bright; 42.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 84; 0;38787
 7; 3092.7; 31-JUL-2009 18:43:51; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38787
 8; 3482.3; 31-JUL-2009 18:50:21; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;38787
 9; 3599.6; 31-JUL-2009 18:52:18; Bright; 63.5; 76; 27Gam Cas ; 2.30; 30000;occ; 127; 0;38787
10; 3980.7; 31-JUL-2009 18:58:39; Bright; 69.0; 160; 23Gam Per ; 2.93; 4700;occ; 138; 0;38787
11; 4079.7; 31-JUL-2009 19:00:18; Bright; 51.5; 35; 33Alp Per ; 1.79; 6250;occ; 103; 0;38787
12; 4315.9; 31-JUL-2009 19:04:14; Bright; 49.0; 149; 45Eps Per ; 2.89; 30000;occ; 98; 0;38787
13; 4501.1; 31-JUL-2009 19:07:19; Dark ; 52.5; 150; 44Zet Per ; 2.89; 28000;occ; 105; 0;38787
14; 4788.2; 31-JUL-2009 19:12:07; Dark ; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;38787
15; 5286.0; 31-JUL-2009 19:20:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38787
16; 5444.3; 31-JUL-2009 19:23:03; Dark ; 53.0; 165; 34Gam Eri ; 2.95; 3200;occ; 106; 0;38787
17; 6009.2; 31-JUL-2009 19:32:28; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;38787
18; 6625.8; 31-JUL-2009 19:42:44; Dark ; 57.5; 84; Alp Phe ; 2.40; 4500;occ; 115; 0;38787
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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