

GOMOS Daily Report 07-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	10JUL2009 04:44:56
Data source version	GOMOS/5.00
Start time of products	07JUL2009 00:03:22
Stop time of products	07JUL2009 23:58:24
Store outputs in DB	Yes
Nb of level 1b prods	70
Nb of prods with errors	0

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

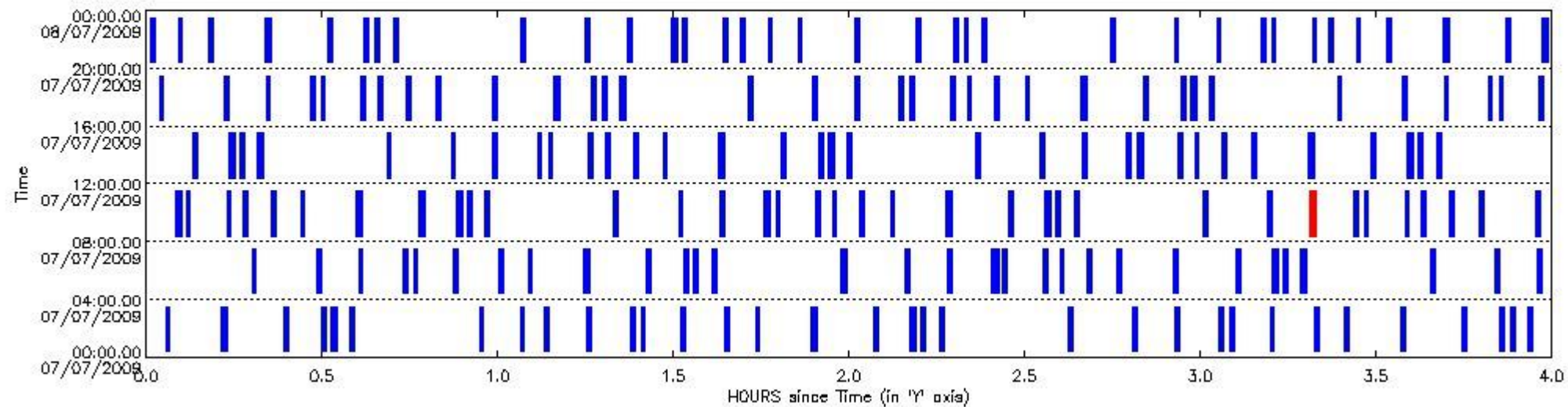
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

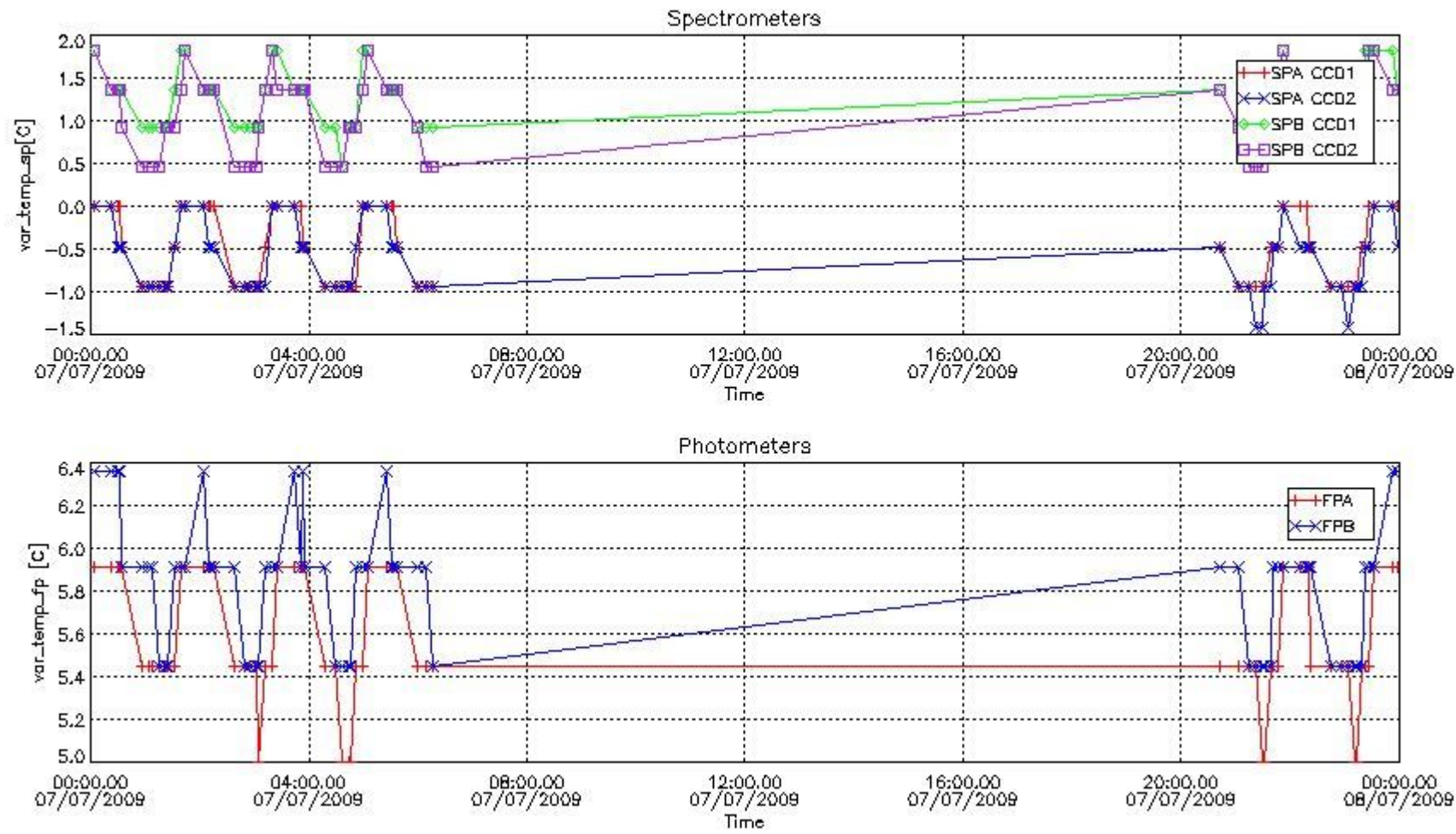
UTC start time	Star name	Star ID	Orbit
07-JUL-2009 11:18:37	5AlpCep	89	38439

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_1PNPDE20090707_000322_000000382080_00302_38432_6987.N1	07-JUL-2009 00:03:22	Dark	38.000	94	92Alp Cet	2.5260	3100.0	76	38432	No
2	GOM_TRA_1PNPDE20090707_002329_000000512080_00303_38433_7124.N1	07-JUL-2009 00:23:29	Dark	50.500	84	Alp Phe	2.3970	4500.0	101	38433	No
3	GOM_TRA_1PNPDE20090707_002948_000000522080_00303_38433_7125.N1	07-JUL-2009 00:29:48	Straylight	52.000	63	Bet Gru	2.1500	2800.0	104	38433	No
4	GOM_TRA_1PNPDE20090707_003137_000000572080_00303_38433_7126.N1	07-JUL-2009 00:31:37	Straylight	57.000	31	Alp Gru	1.7340	15200.	114	38433	No
5	GOM_TRA_1PNPDE20090707_003442_000000572080_00303_38433_7127.N1	07-JUL-2009 00:34:42	Straylight	56.500	172	Gam Gru	3.0030	13100.	113	38433	No
6	GOM_TRA_1PNPDE20090707_005652_000000432080_00303_38433_7128.N1	07-JUL-2009 00:56:52	Bright	43.000	168	17Zet Aql	2.9860	11000.	86	38433	No
7	GOM_TRA_1PNPDE20090707_010400_000000352080_00303_38433_7129.N1	07-JUL-2009 01:04:00	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	38433	No
8	GOM_TRA_1PNPDE20090707_010754_000000432080_00303_38433_7130.N1	07-JUL-2009 01:07:54	Bright	43.000	144	18Del Cyg	2.8600	11000.	86	38433	No
9	GOM_TRA_1PNPDE20090707_011506_000000462080_00303_38433_7131.N1	07-JUL-2009 01:15:06	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	38433	No
10	GOM_TRA_1PNPDE20090707_012237_000000512080_00303_38433_7132.N1	07-JUL-2009 01:22:37	Bright	50.500	74	11Bet Cas	2.2680	6600.0	101	38433	No

11	GOM_TRA_1PNPDE20090707_012429_000000382080_00303_38433_7133.N1	07-JUL-2009 01:24:29	Bright	37.500	110	37Del Cas	2.6780	8900.0	75	38433	No
12	GOM_TRA_1PNPDE20090707_013119_000000402080_00303_38433_7134.N1	07-JUL-2009 01:31:19	Bright	39.500	73	57Gam1And	2.2600	13100.	79	38433	No
13	GOM_TRA_1PNPDE20090707_013852_000000452080_00303_38433_7135.N1	07-JUL-2009 01:38:52	Dark	45.000	50	13Alp Ari	2.0070	4250.0	90	38433	No
14	GOM_TRA_1PNPDE20090707_014359_000000362080_00303_38433_7136.N1	07-JUL-2009 01:43:59	Dark	36.000	94	92Alp Cet	2.5260	3100.0	72	38433	No
15	GOM_TRA_1PNPDE20090707_020406_000000532080_00304_38434_7272.N1	07-JUL-2009 02:04:06	Dark	52.500	84	Alp Phe	2.3970	4500.0	105	38434	No
16	GOM_TRA_1PNPDE20090707_021025_000000642080_00304_38434_7273.N1	07-JUL-2009 02:10:25	Straylight	64.000	63	Bet Gru	2.1500	2800.0	128	38434	No
17	GOM_TRA_1PNPDE20090707_021214_000000522080_00304_38434_7274.N1	07-JUL-2009 02:12:14	Straylight	52.000	31	Alp Gru	1.7340	15200.	104	38434	No
18	GOM_TRA_1PNPDE20090707_021519_000000582080_00304_38434_7275.N1	07-JUL-2009 02:15:19	Straylight	57.500	172	Gam Gru	3.0030	13100.	115	38434	No
19	GOM_TRA_1PNPDE20090707_023728_000000482080_00304_38434_7276.N1	07-JUL-2009 02:37:28	Bright	48.000	168	17Zet Aql	2.9860	11000.	96	38434	No
20	GOM_TRA_1PNPDE20090707_024829_000000422080_00304_38434_7277.N1	07-JUL-2009 02:48:29	Bright	42.000	144	18Del Cyg	2.8600	11000.	84	38434	No
21	GOM_TRA_1PNPDE20090707_025541_000000472080_00304_38434_7278.N1	07-JUL-2009 02:55:41	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	38434	No
22	GOM_TRA_1PNPDE20090707_030312_000000462080_00304_38434_7279.N1	07-JUL-2009 03:03:12	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	38434	No
23	GOM_TRA_1PNPDE20090707_030505_000000392080_00304_38434_7435.N1	07-JUL-2009 03:05:05	Bright	38.500	110	37Del Cas	2.6780	8900.0	77	38434	No
24	GOM_TRA_1PNPDE20090707_031155_000000432080_00304_38434_7436.N1	07-JUL-2009 03:11:55	Bright	43.000	73	57Gam1And	2.2600	13100.	86	38434	No
25	GOM_TRA_1PNPDE20090707_031928_000000492080_00304_38434_7437.N1	07-JUL-2009 03:19:28	Dark	48.500	50	13Alp Ari	2.0070	4250.0	97	38434	No
26	GOM_TRA_1PNPDE20090707_032435_000000392080_00304_38434_7438.N1	07-JUL-2009 03:24:35	Dark	39.000	94	92Alp Cet	2.5260	3100.0	78	38434	No
27	GOM_TRA_1PNPDE20090707_034443_000000512080_00305_38435_7439.N1	07-JUL-2009 03:44:43	Dark	51.000	84	Alp Phe	2.3970	4500.0	102	38435	No
28	GOM_TRA_1PNPDE20090707_035102_000000542080_00305_38435_7440.N1	07-JUL-2009 03:51:02	Straylight	53.500	63	Bet Gru	2.1500	2800.0	107	38435	No
29	GOM_TRA_1PNPDE20090707_035251_000000552080_00305_38435_7441.N1	07-JUL-2009 03:52:51	Straylight	54.500	31	Alp Gru	1.7340	15200.	109	38435	No
30	GOM_TRA_1PNPDE20090707_035556_000000542080_00305_38435_7442.N1	07-JUL-2009 03:55:56	Straylight	54.000	172	Gam Gru	3.0030	13100.	108	38435	No
31	GOM_TRA_1PNPDE20090707_041804_000000422080_00305_38435_7443.N1	07-JUL-2009 04:18:04	Bright	41.500	168	17Zet Aql	2.9860	11000.	83	38435	No
32	GOM_TRA_1PNPDE20090707_042905_000000462080_00305_38435_7444.N1	07-JUL-2009 04:29:05	Bright	45.500	144	18Del Cyg	2.8600	11000.	91	38435	No
33	GOM_TRA_1PNPDE20090707_043617_000000422080_00305_38435_7445.N1	07-JUL-2009 04:36:17	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	38435	No
34	GOM_TRA_1PNPDE20090707_044347_000000462080_00305_38435_7612.N1	07-JUL-2009 04:43:47	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	38435	No
35	GOM_TRA_1PNPDE20090707_044540_000000402080_00305_38435_7613.N1	07-JUL-2009 04:45:40	Bright	39.500	110	37Del Cas	2.6780	8900.0	79	38435	No
36	GOM_TRA_1PNPDE20090707_045230_000000422080_00305_38435_7614.N1	07-JUL-2009 04:52:30	Bright	42.000	73	57Gam1And	2.2600	13100.	84	38435	No
37	GOM_TRA_1PNPDE20090707_050005_000000482080_00305_38435_7615.N1	07-JUL-2009 05:00:05	Dark	48.000	50	13Alp Ari	2.0070	4250.0	96	38435	No
38	GOM_TRA_1PNPDE20090707_050512_000000402080_00305_38435_7616.N1	07-JUL-2009 05:05:12	Dark	40.000	94	92Alp Cet	2.5260	3100.0	80	38435	No
39	GOM_TRA_1PNPDE20090707_052520_000000522080_00306_38436_7617.N1	07-JUL-2009 05:25:20	Dark	51.500	84	Alp Phe	2.3970	4500.0	103	38436	No
40	GOM_TRA_1PNPDE20090707_053139_000000562080_00306_38436_7618.N1	07-JUL-2009 05:31:39	Straylight	55.500	63	Bet Gru	2.1500	2800.0	111	38436	No
41	GOM_TRA_1PNPDE20090707_053328_000000502080_00306_38436_7619.N1	07-JUL-2009 05:33:28	Straylight	50.000	31	Alp Gru	1.7340	15200.	100	38436	No
42	GOM_TRA_1PNPDE20090707_053633_000000552080_00306_38436_7620.N1	07-JUL-2009 05:36:33	Straylight	54.500	172	Gam Gru	3.0030	13100.	109	38436	No
43	GOM_TRA_1PNPDE20090707_055839_000000642080_00306_38436_7621.N1	07-JUL-2009 05:58:39	Bright	64.000	168	17Zet Aql	2.9860	11000.	128	38436	No
44	GOM_TRA_1PNPDE20090707_060940_000000442080_00306_38436_7622.N1	07-JUL-2009 06:09:40	Bright	43.500	144	18Del Cyg	2.8600	11000.	87	38436	No
45	GOM_TRA_1PNPDE20090707_061652_000000442080_00306_38436_7623.N1	07-JUL-2009 06:16:52	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	38436	No
46	GOM_TRA_1PNPDE20090707_204205_000000542080_00315_38445_8109.N1	07-JUL-2009 20:42:05	Straylight	54.000	172	Gam Gru	3.0030	13100.	108	38445	No
47	GOM_TRA_1PNPDE20090707_210359_000000422080_00315_38445_8110.N1	07-JUL-2009 21:03:59	Bright	42.000	168	17Zet Aql	2.9860	11000.	84	38445	No
48	GOM_TRA_1PNPDE20090707_211457_000000472080_00315_38445_8111.N1	07-JUL-2009 21:14:57	Bright	47.000	144	18Del Cyg	2.8600	11000.	94	38445	No
49	GOM_TRA_1PNPDE20090707_212210_000000432080_00315_38445_8112.N1	07-JUL-2009 21:22:10	Bright	43.000	89	5Alp Cep	2.4510	8000.0	86	38445	No
50	GOM_TRA_1PNPDE20090707_212941_000000642080_00315_38445_8113.N1	07-JUL-2009 21:29:41	Bright	64.000	74	11Bet Cas	2.2680	6600.0	128	38445	No
51	GOM_TRA_1PNPDE20090707_213136_000000392080_00315_38445_8114.N1	07-JUL-2009 21:31:36	Bright	38.500	110	37Del Cas	2.6780	8900.0	77	38445	No
52	GOM_TRA_1PNPDE20090707_213829_000000462080_00315_38445_8115.N1	07-JUL-2009 21:38:29	Bright	46.000	73	57Gam1And	2.2600	13100.	92	38445	No
53	GOM_TRA_1PNPDE20090707_214122_000000452080_00315_38445_8116.N1	07-JUL-2009 21:41:22	Tw_i_and_stray	45.000	173	4Bet Tri	3.0040	8900.0	90	38445	No
54	GOM_TRA_1PNPDE20090707_214608_000000392080_00315_38445_8117.N1	07-JUL-2009 21:46:08	Dark	39.000	50	13Alp Ari	2.0070	4250.0	78	38445	No
55	GOM_TRA_1PNPDE20090707_215116_000000412080_00315_38445_8118.N1	07-JUL-2009 21:51:16	Dark	41.000	94	92Alp Cet	2.5260	3100.0	82	38445	No
56	GOM_TRA_1PNPDE20090707_221130_000000522080_00316_38446_8258.N1	07-JUL-2009 22:11:30	Dark	51.500	84	Alp Phe	2.3970	4500.0	103	38446	No
57	GOM_TRA_1PNPDE20090707_221747_000000542080_00316_38446_8259.N1	07-JUL-2009 22:17:47	Straylight	54.000	63	Bet Gru	2.1500	2800.0	108	38446	No
58	GOM_TRA_1PNPDE20090707_221935_000000482080_00316_38446_8260.N1	07-JUL-2009 22:19:35	Straylight	47.500	31	Alp Gru	1.7340	15200.	95	38446	No
59	GOM_TRA_1PNPDE20090707_222242_000000552080_00316_38446_8261.N1	07-JUL-2009 22:22:42	Straylight	55.000	172	Gam Gru	3.0030	13100.	110	38446	No
60	GOM_TRA_1PNPDE20090707_224435_000000452080_00316_38446_8262.N1	07-JUL-2009 22:44:35	Bright	44.500	168	17Zet Aql	2.9860	11000.	89	38446	No
61	GOM_TRA_1PNPDE20090707_225532_000000452080_00316_38446_8263.N1	07-JUL-2009 22:55:32	Bright	45.000	144	18Del Cyg	2.8600	11000.	90	38446	No
62	GOM_TRA_1PNPDE20090707_230245_000000442080_00316_38446_8264.N1	07-JUL-2009 23:02:45	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	38446	No
63	GOM_TRA_1PNPDE20090707_231016_000000552080_00316_38446_8265.N1	07-JUL-2009 23:10:16	Bright	54.500	74	11Bet Cas	2.2680	6600.0	109	38446	No
64	GOM_TRA_1PNPDE20090707_231211_000000402080_00316_38446_8266.N1	07-JUL-2009 23:12:11	Bright	40.000	110	37Del Cas	2.6780	8900.0	80	38446	No
65	GOM_TRA_1PNPDE20090707_231904_000000442080_00316_38446_8267.N1	07-JUL-2009 23:19:04	Bright	43.500	73	57Gam1And	2.2600	13100.	87	38446	No
66	GOM_TRA_1PNPDE20090707_232158_000000442080_00316_38446_8268.N1	07-JUL-2009 23:21:58	Tw_i_and_stray	43.500	173	4Bet Tri	3.0040	8900.0	87	38446	No
67	GOM_TRA_1PNPDE20090707_232644_000000302080_00316_38446_8269.N1	07-JUL-2009 23:26:44	Dark	30.000	50	13Alp Ari	2.0070	4250.0	60	38446	No
68	GOM_TRA_1PNPDE20090707_233153_000000402080_00316_38446_8270.N1	07-JUL-2009 23:31:53	Dark	39.500	94	92Alp Cet	2.5260	3100.0	79	38446	No
69	GOM_TRA_1PNPDE20090707_235207_000000512080_00317_38447_8408.N1	07-JUL-2009 23:52:07	Dark	50.500	84	Alp Phe	2.3970	4500.0	101	38447	No

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



4. Overview of dark signal processing per product

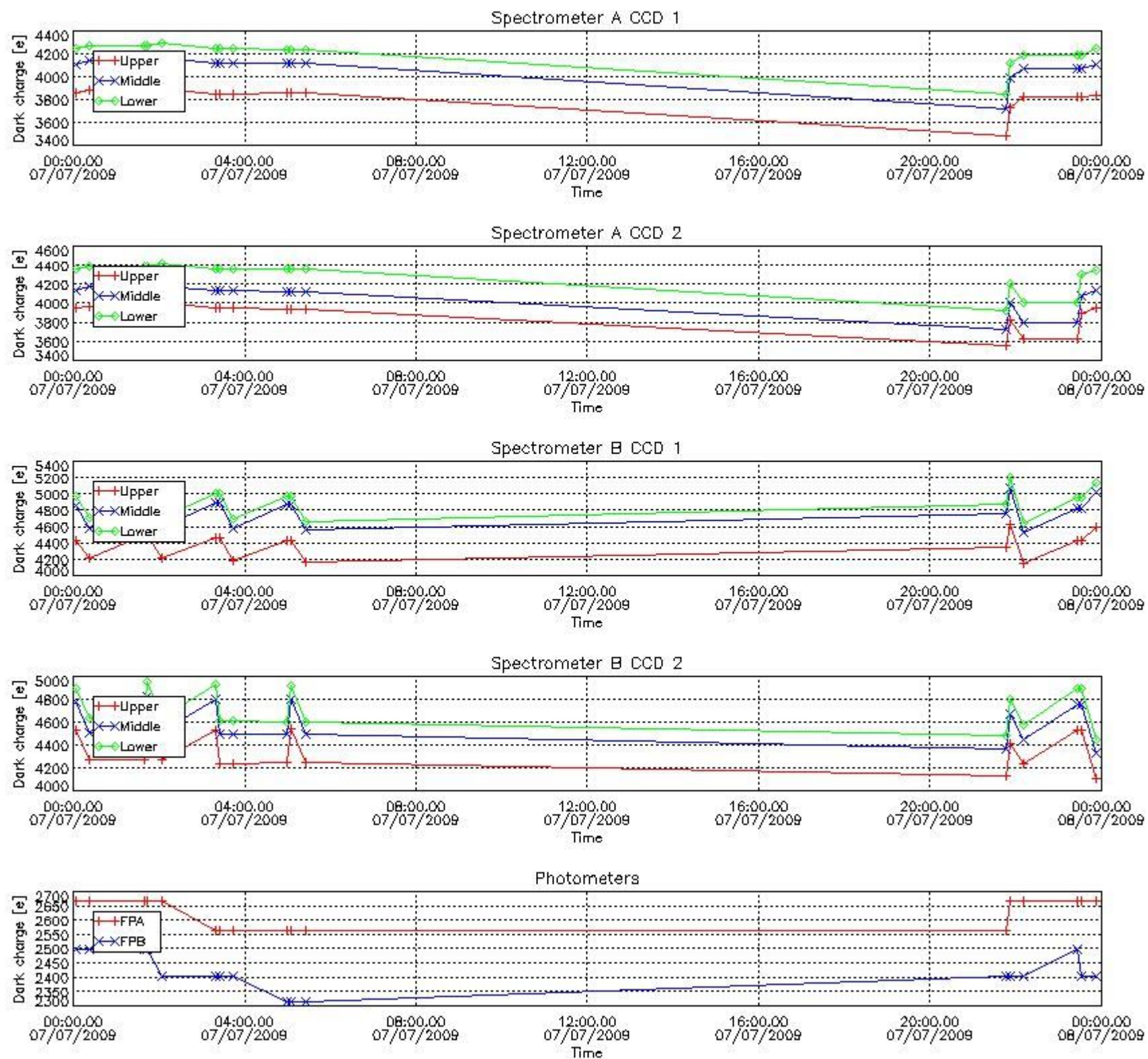
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090707_204205_00000542080_00315_38445_8109.N1	DC map used
GOM_TRA_1PNPDE20090707_210359_00000422080_00315_38445_8110.N1	DC map used
GOM_TRA_1PNPDE20090707_211457_00000472080_00315_38445_8111.N1	DC map used
GOM_TRA_1PNPDE20090707_212210_00000432080_00315_38445_8112.N1	DC map used
GOM_TRA_1PNPDE20090707_212941_00000642080_00315_38445_8113.N1	DC map used
GOM_TRA_1PNPDE20090707_213136_00000392080_00315_38445_8114.N1	DC map used
GOM_TRA_1PNPDE20090707_213829_00000462080_00315_38445_8115.N1	DC map used
GOM_TRA_1PNPDE20090707_214122_00000452080_00315_38445_8116.N1	DC map used
GOM_TRA_1PNPDE20090707_214608_00000392080_00315_38445_8117.N1	DC map used

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



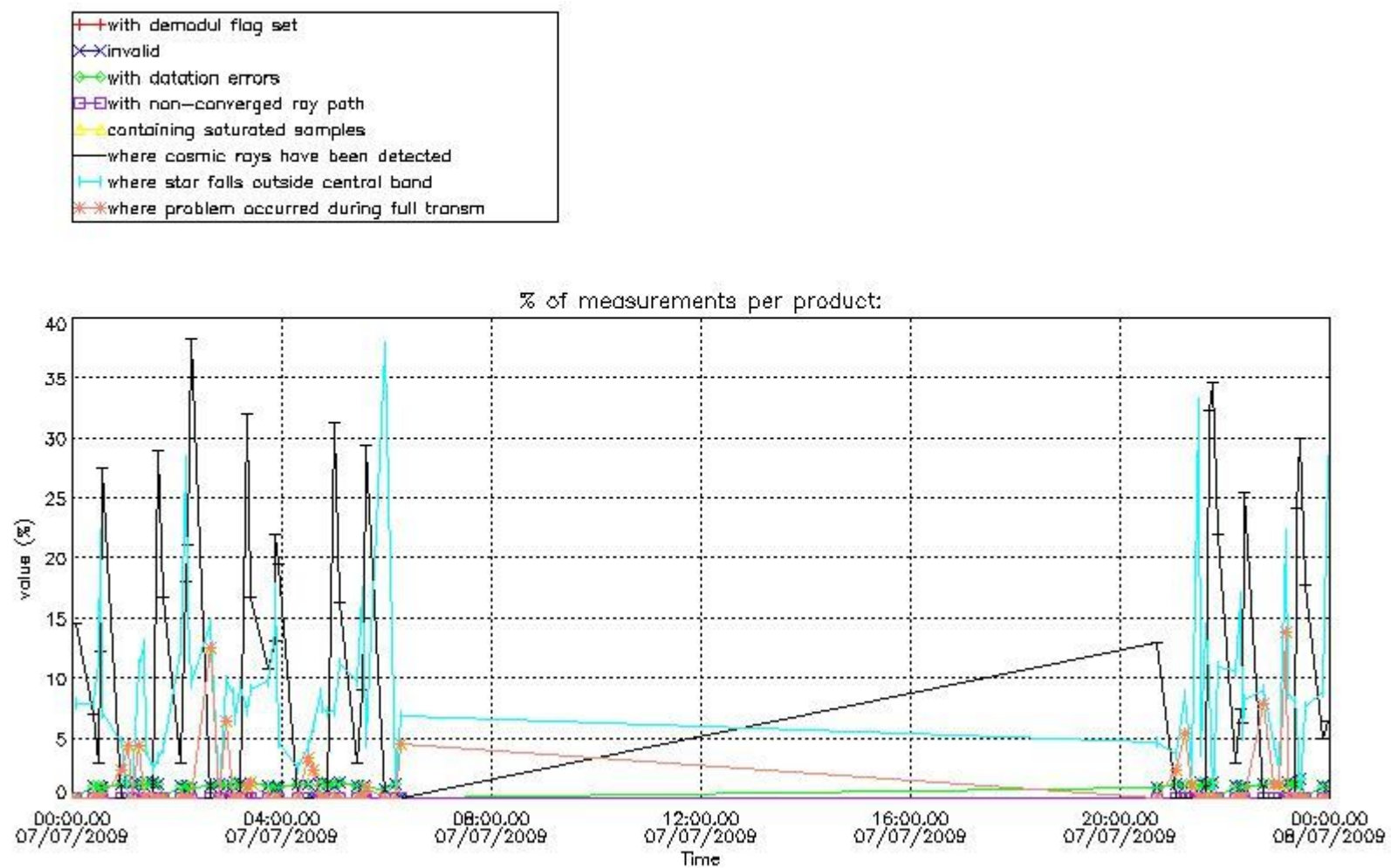
5. Demodulation flag and quality information monitoring

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.

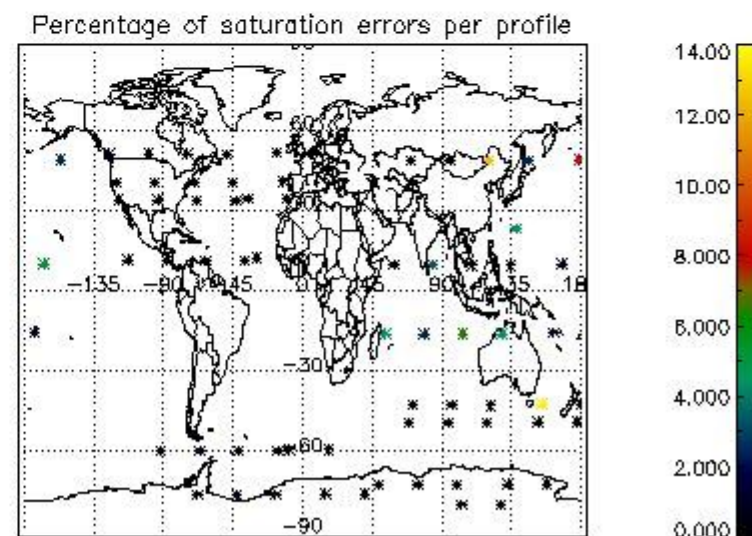
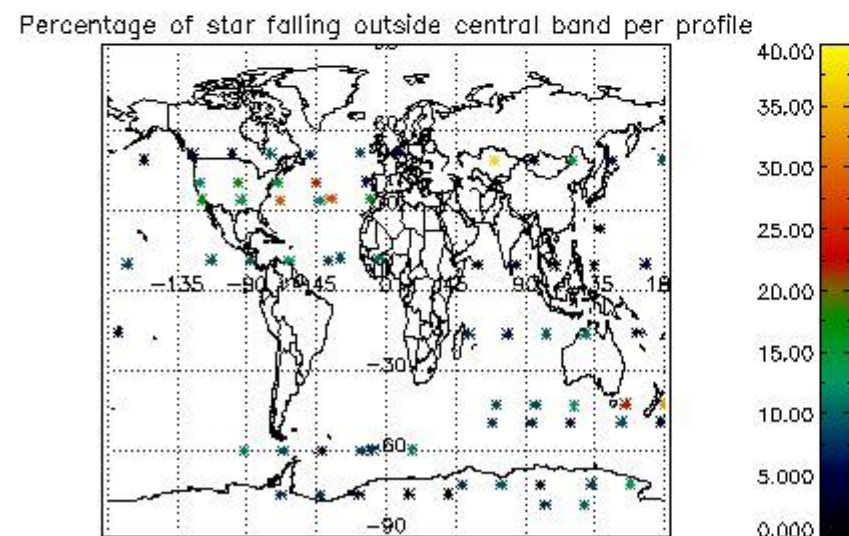
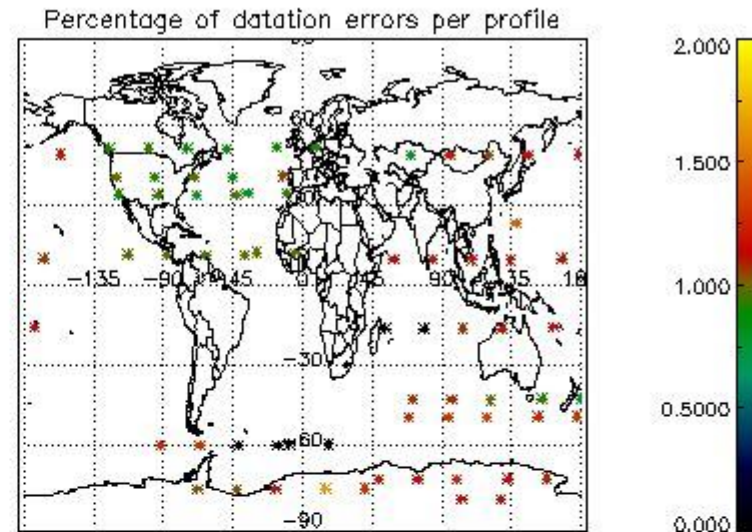
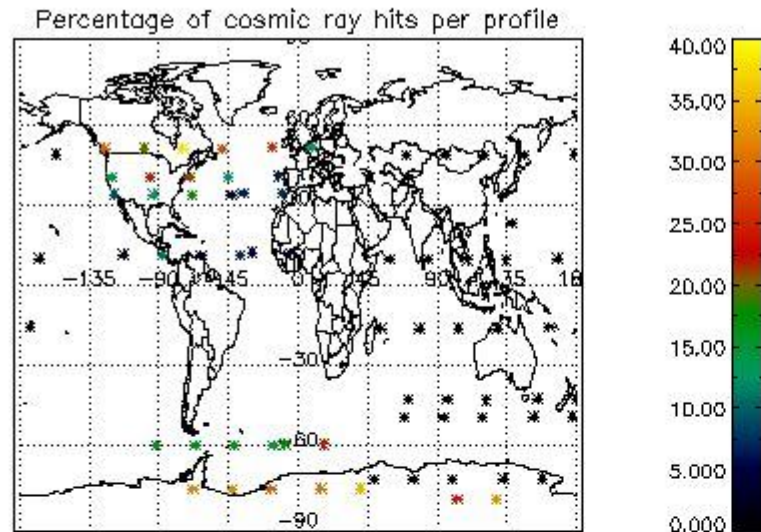
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	27.1429 %
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)



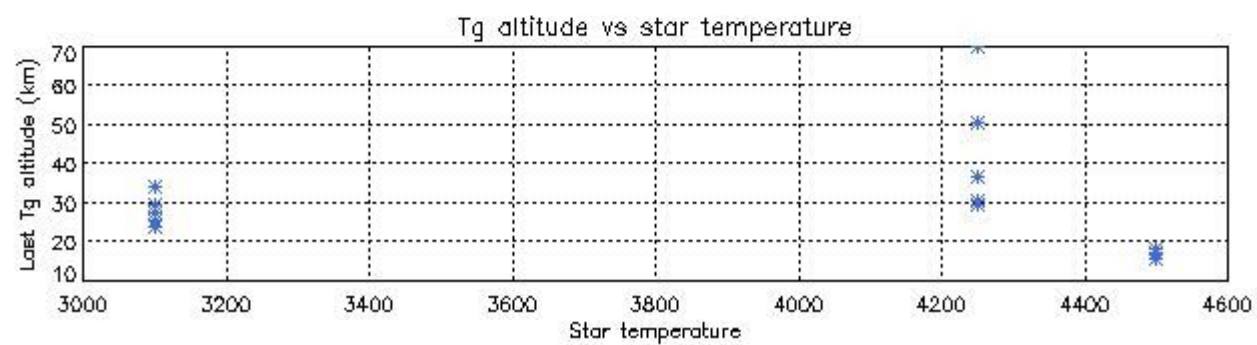
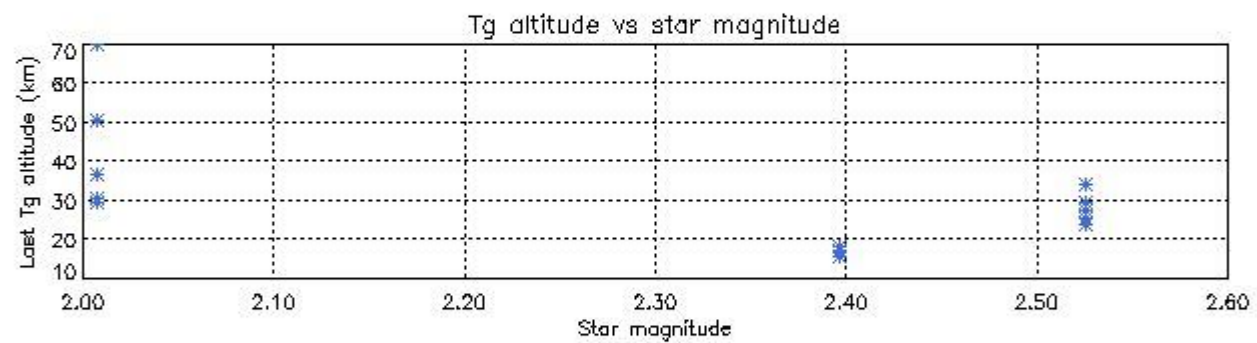
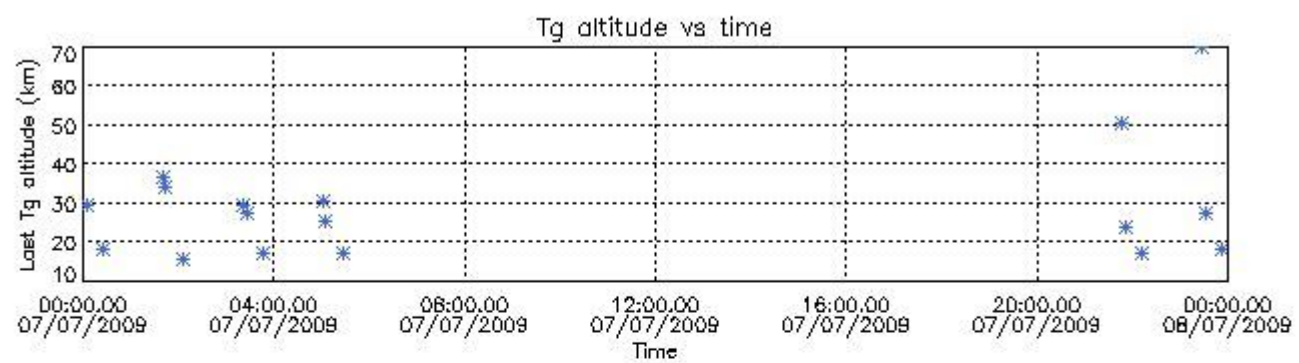
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	28.704	23.741	NaN
St. deviation:	13.932	6.7688	NaN
Maximum:	69.895	37.168	NaN
Minimum:	15.734	4.0901	NaN
Number of data:	17.000	34.000	NaN

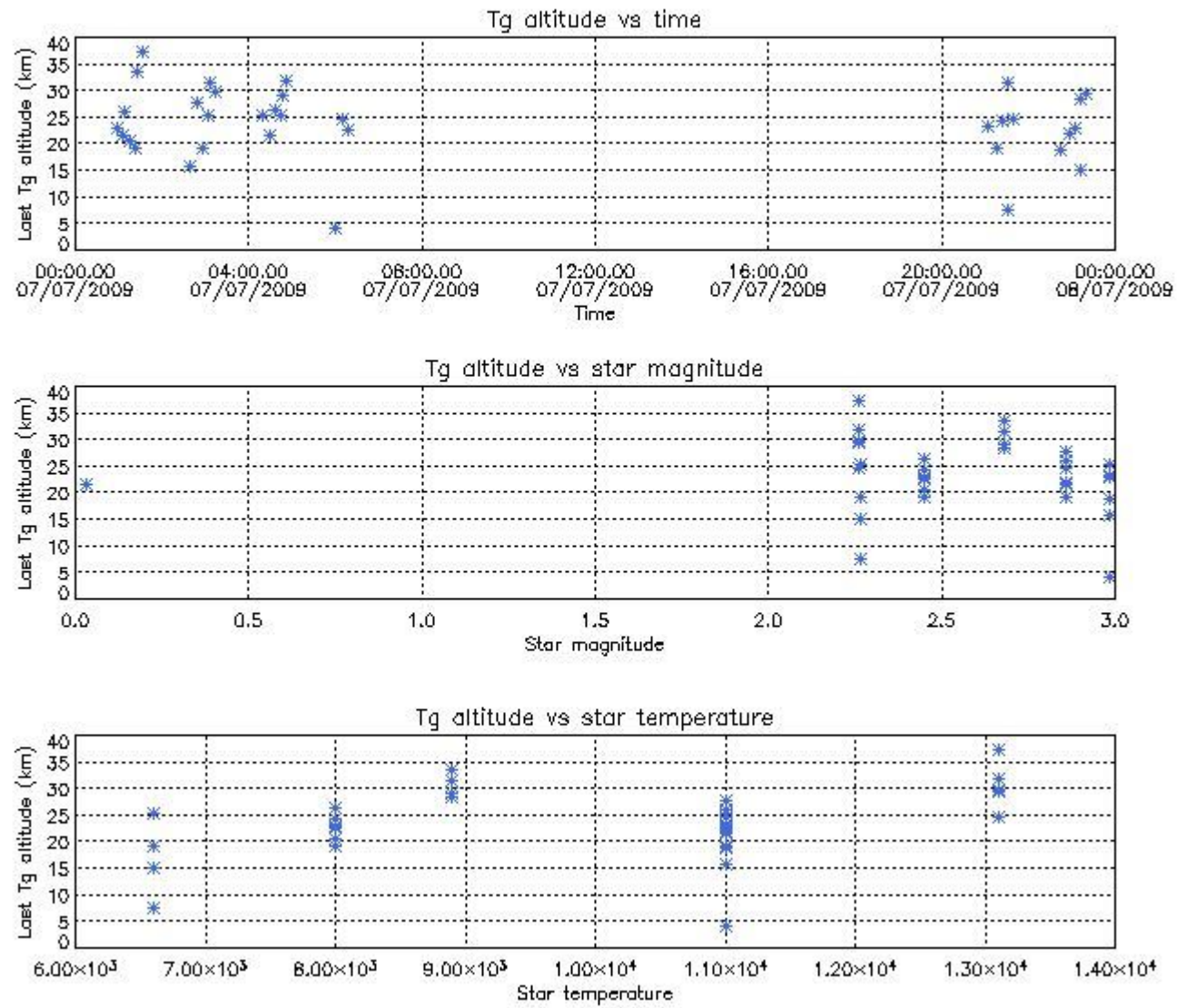
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

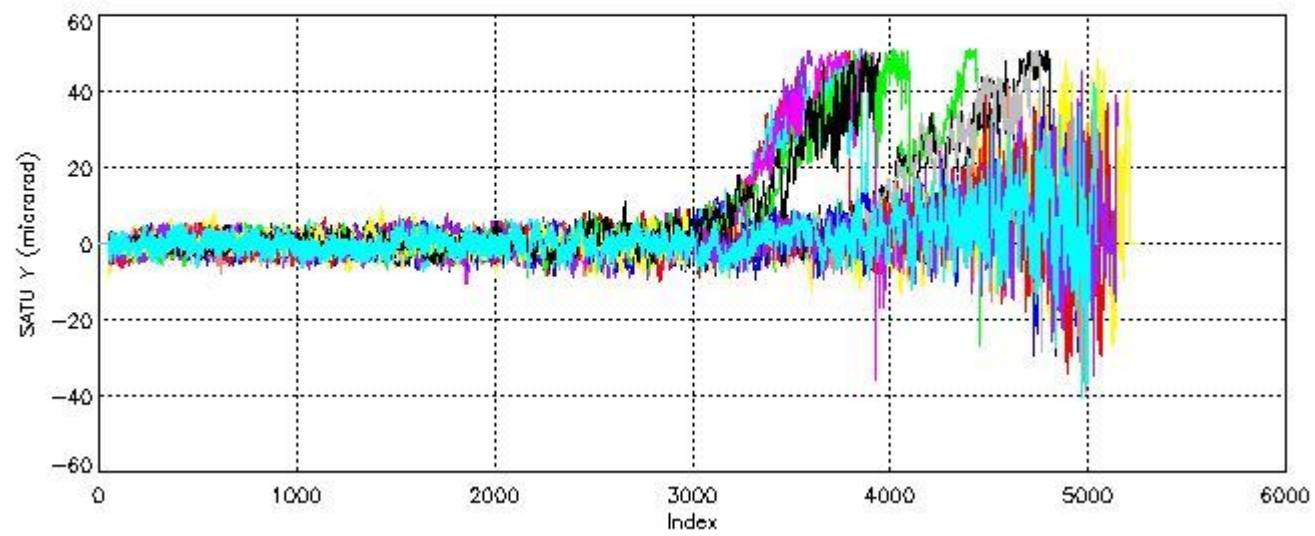
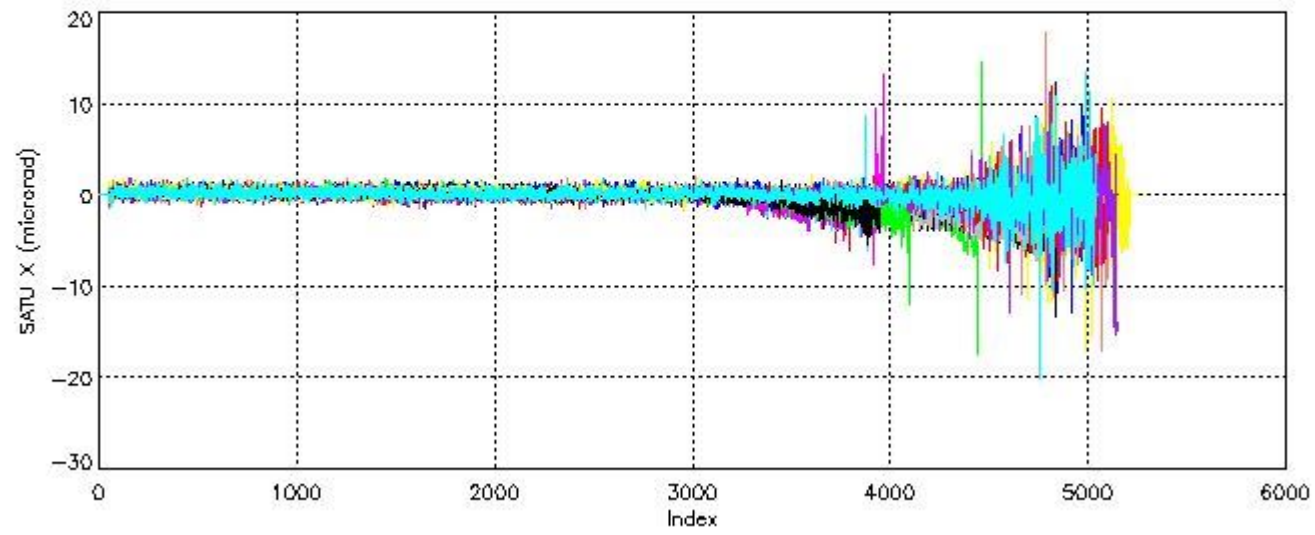


7. Star Acquisition and Tracking Unit (SATU)

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:	0.23991	-0.21800	0.29608	-0.29760
St. deviation:	0.35319	1.9272	1.1455	3.8863
Maximum:	1.8000	8.1000	6.5000	12.900
Minimum:	-1.6000	-8.2000	-5.9000	-13.400

Number of data:	19750.	19750.	35800.	35800.
-----------------	--------	--------	--------	--------

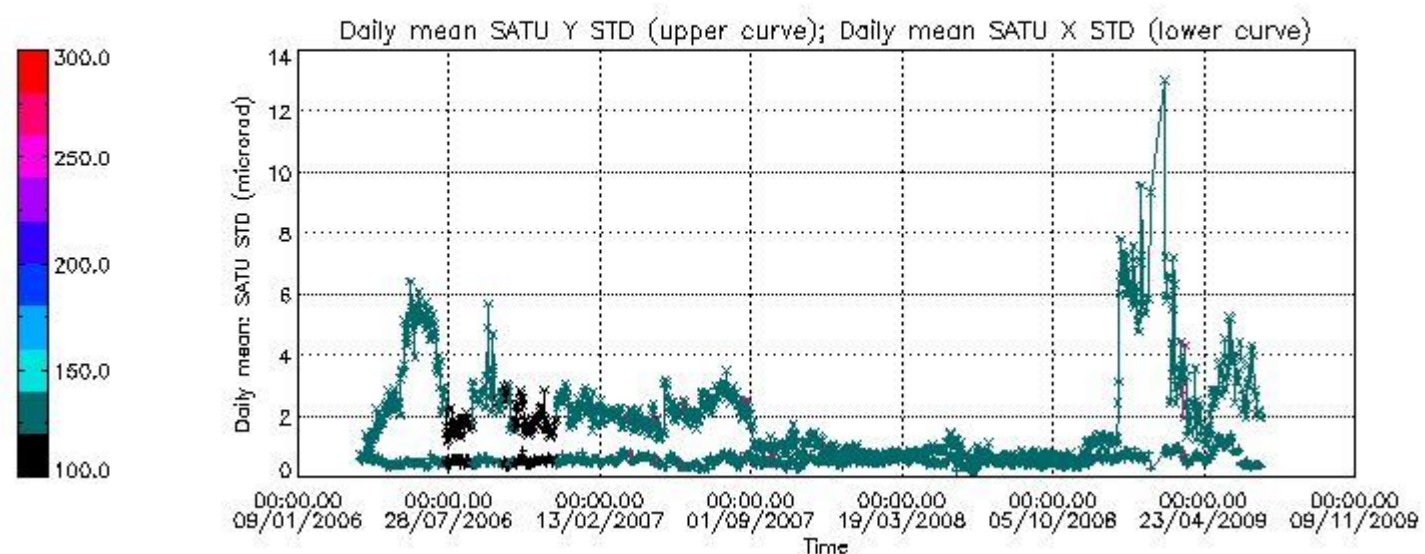
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

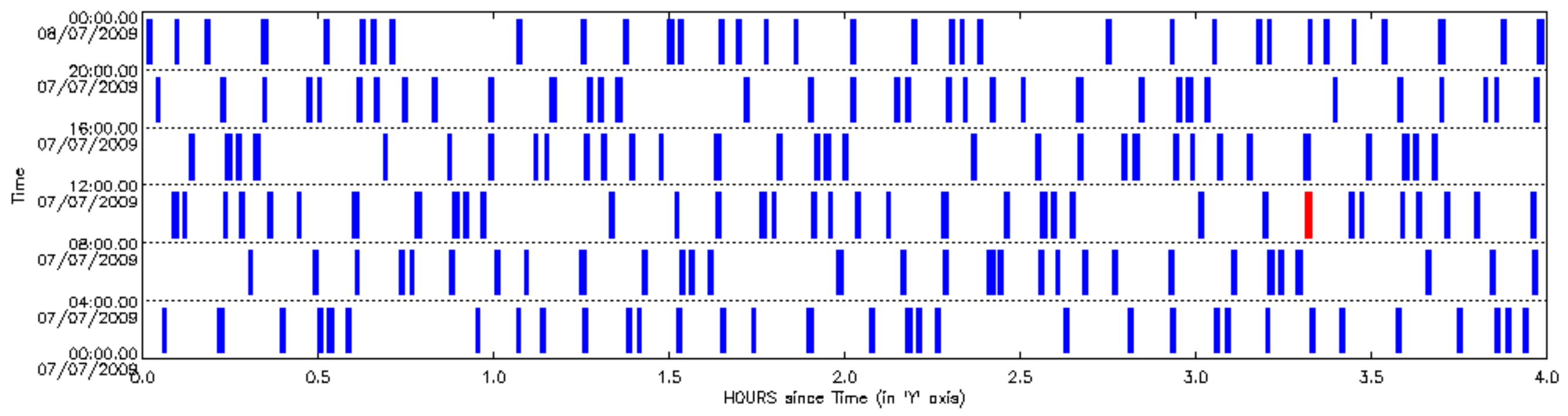
Lower curve: STD of SATU X axis

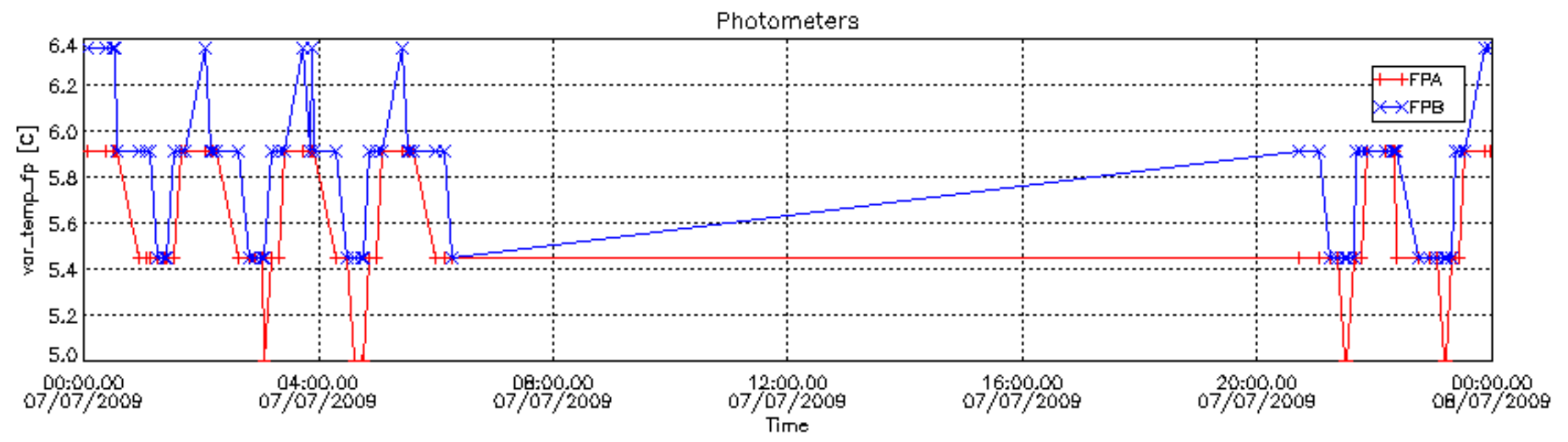
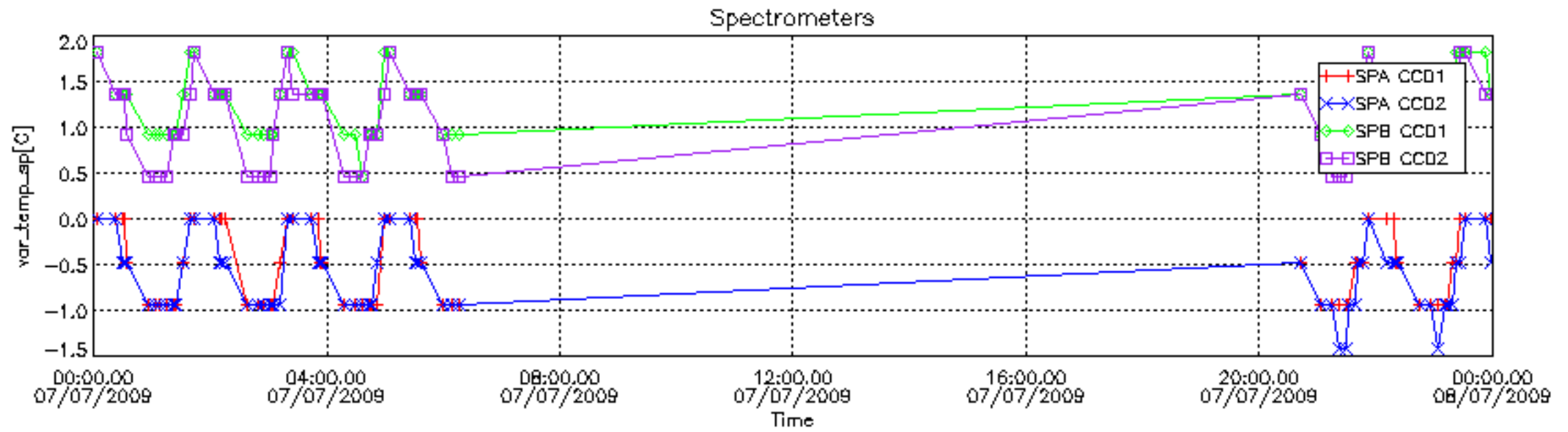


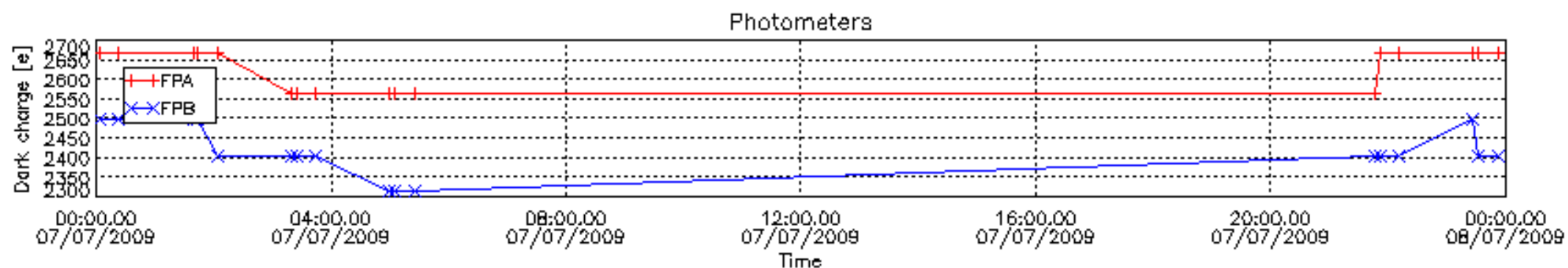
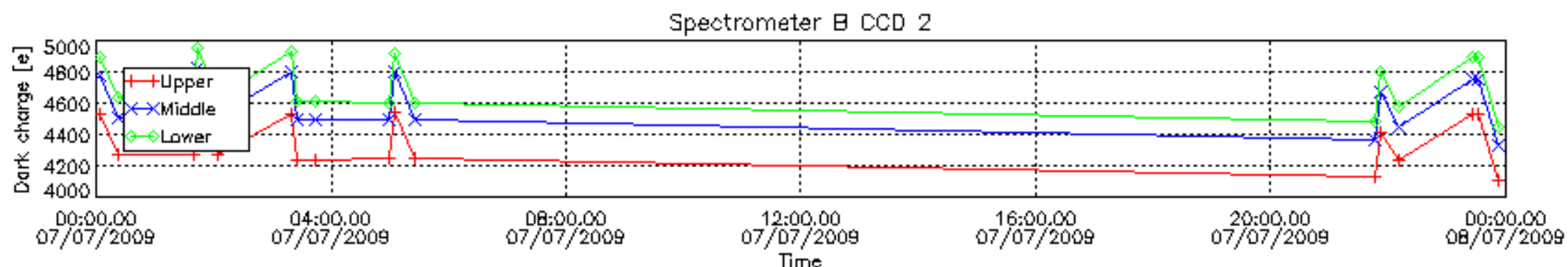
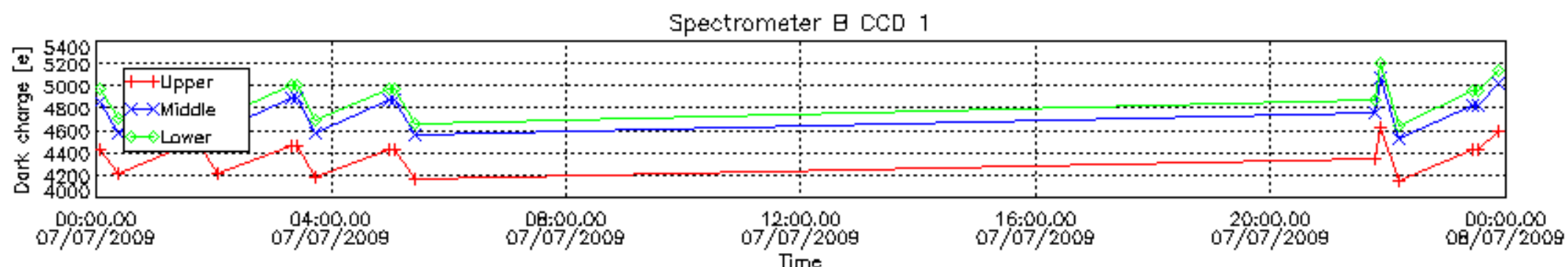
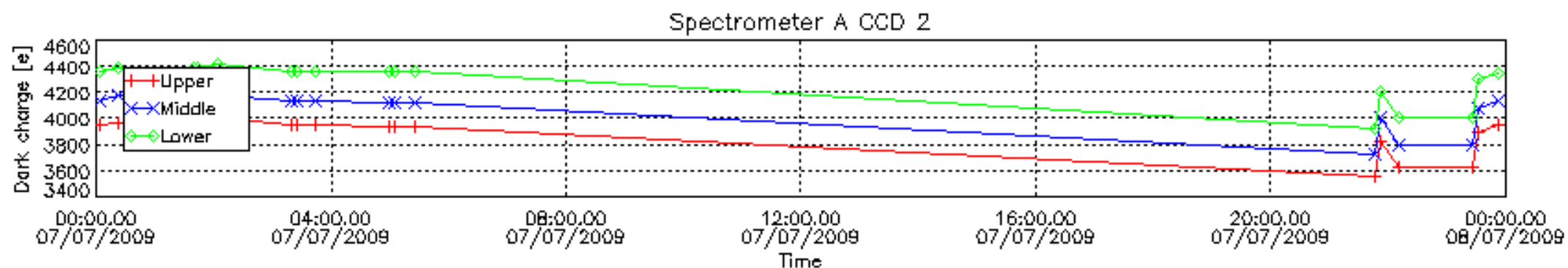
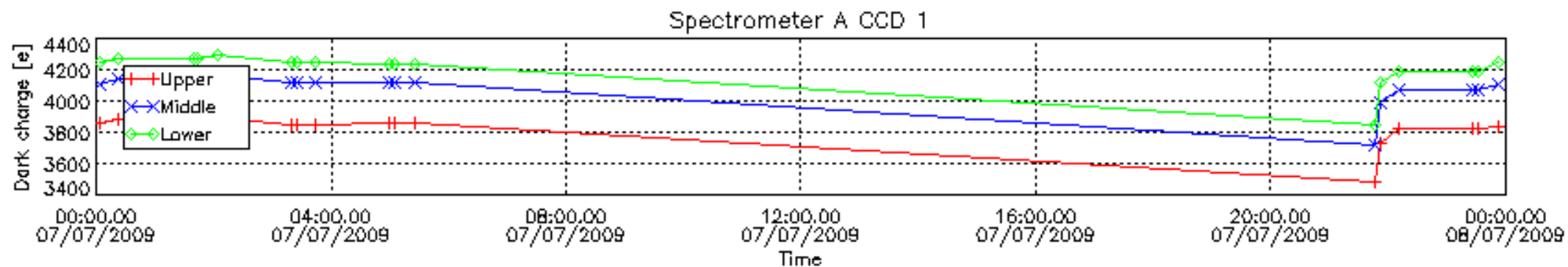
8. Auxiliary Data Files used for the production reported in section 2.4

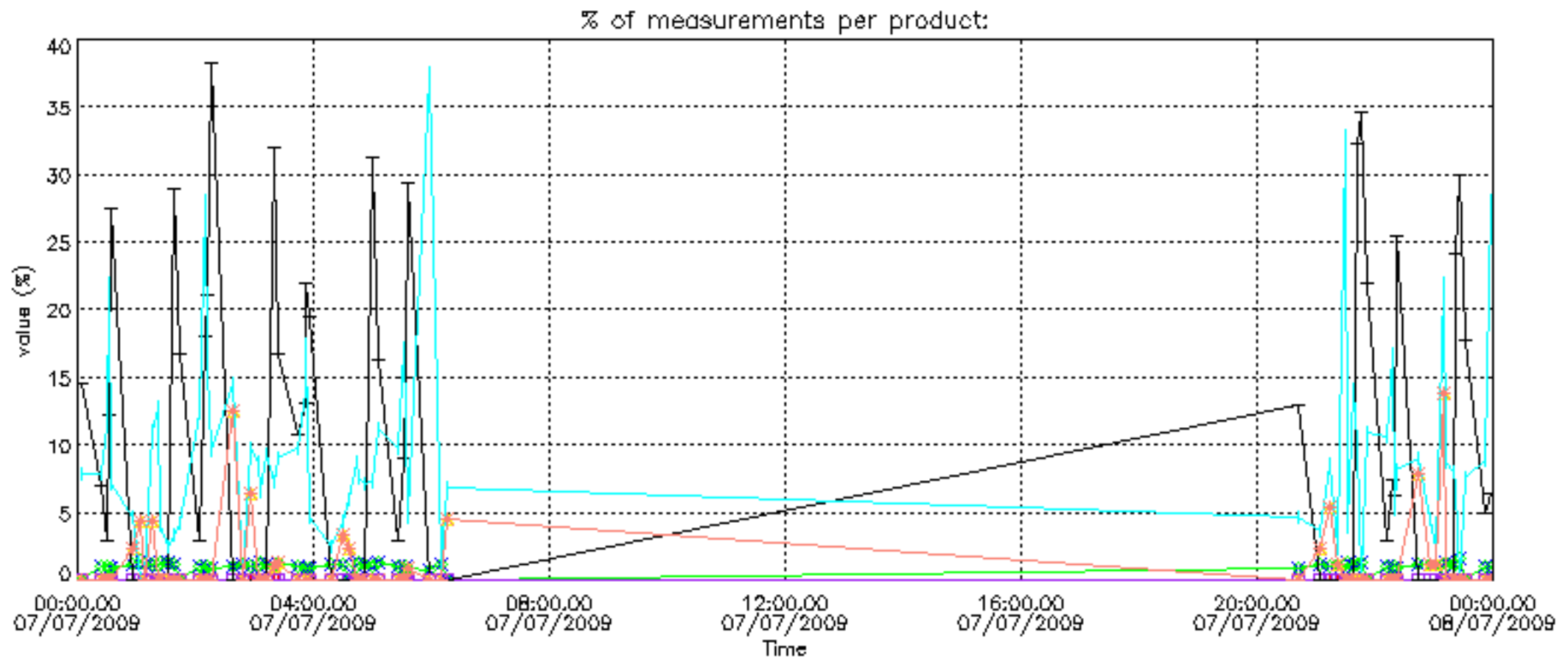
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090701_074759_20090629_000000_20100101_000000	1	07-JUL-2009 00:03:22
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	07-JUL-2009 00:03:22
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-JUL-2009 00:03:22
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	07-JUL-2009 00:03:22
ECMWF_FILE	AUX_ECF_AXNECM20090706_064117_20090706_210000_20090707_090000	1	07-JUL-2009 00:03:22
ECMWF_FILE	AUX_ECF_AXNECM20090706_184112_20090707_030000_20090707_150000	23	07-JUL-2009 03:05:05
ECMWF_FILE	AUX_ECF_AXNECM20090707_064118_20090707_150000_20090708_030000	46	07-JUL-2009 20:42:05
ECMWF_FILE	AUX_ECF_AXNECM20090707_064118_20090707_210000_20090708_090000	56	07-JUL-2009 22:11:30
OPTIONAL_ECMWF_FILE	MISSING	1	07-JUL-2009 00:03:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090706_204239_000060572080_00300_38430_8299.N1	1	07-JUL-2009 00:03:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090706_222336_000057382080_00301_38431_8300.N1	2	07-JUL-2009 00:23:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090707_000433_000057382080_00302_38432_8301.N1	15	07-JUL-2009 02:04:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090707_014530_000041442080_00303_38433_8302.N1	23	07-JUL-2009 03:05:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090707_025953_000057382080_00304_38434_8303.N1	34	07-JUL-2009 04:43:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090707_203712_000041442080_00315_38445_8305.N1	46	07-JUL-2009 20:42:05
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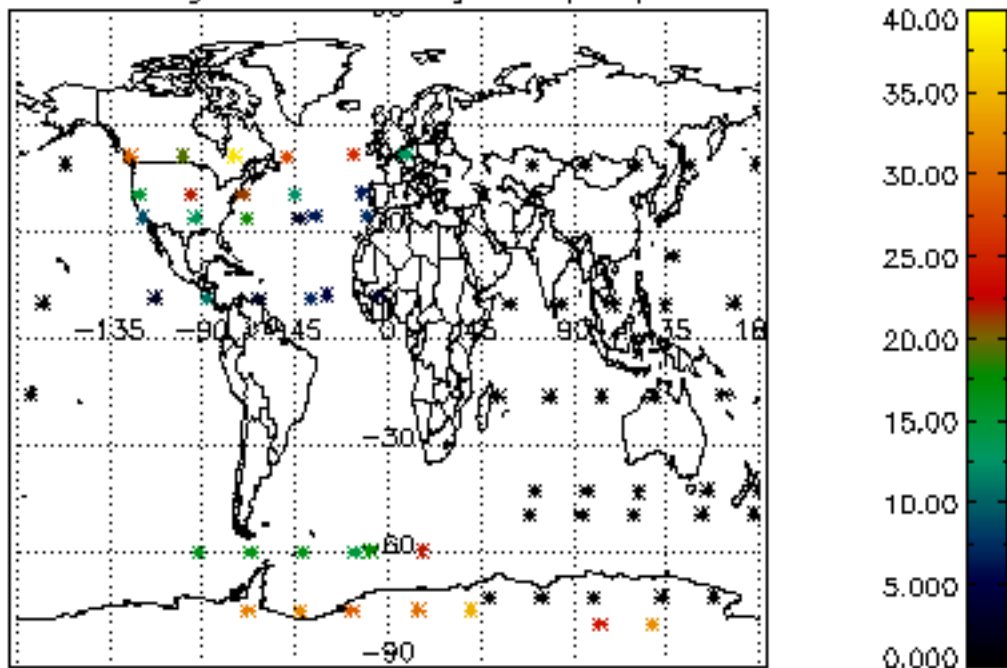




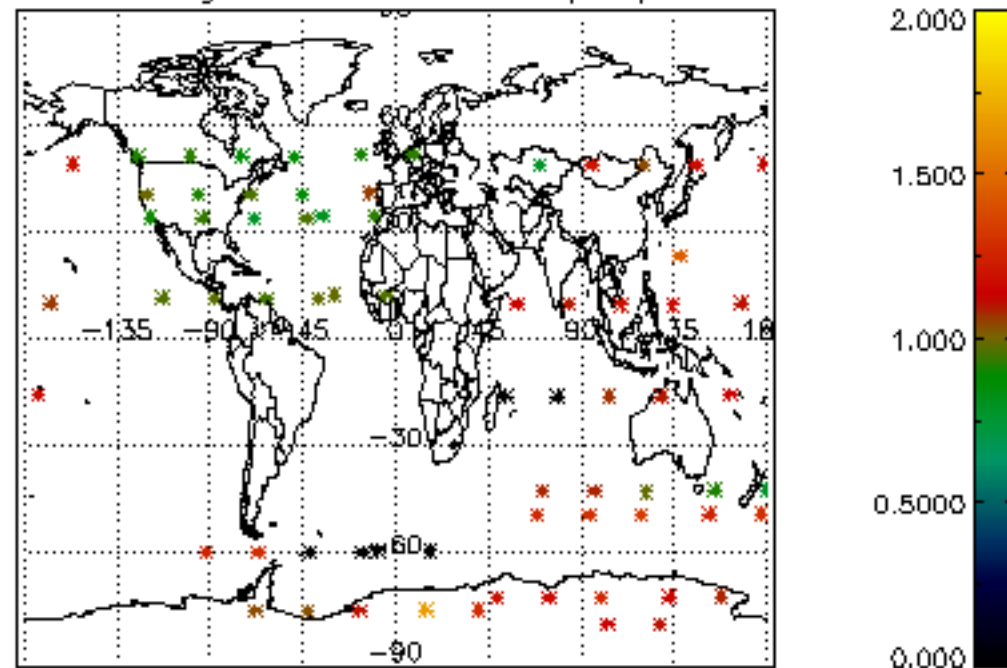




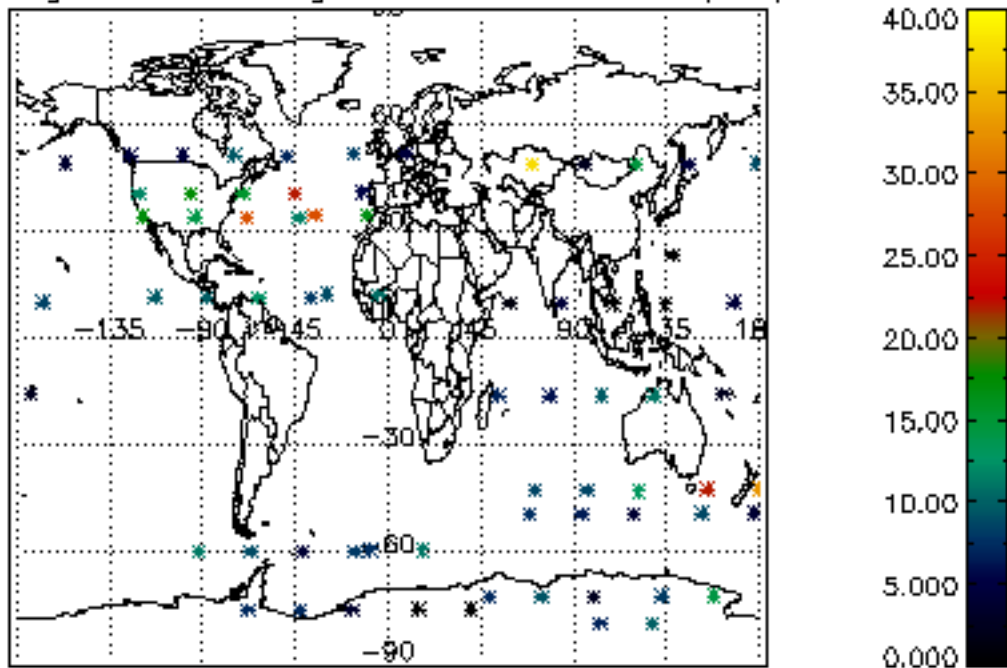
Percentage of cosmic ray hits per profile



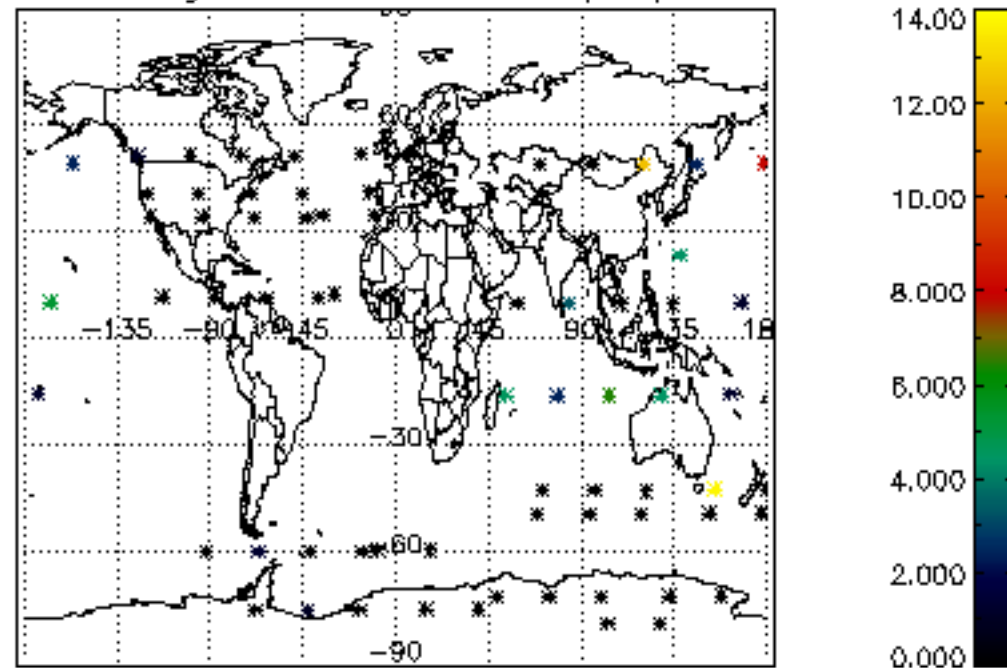
Percentage of datation errors per profile



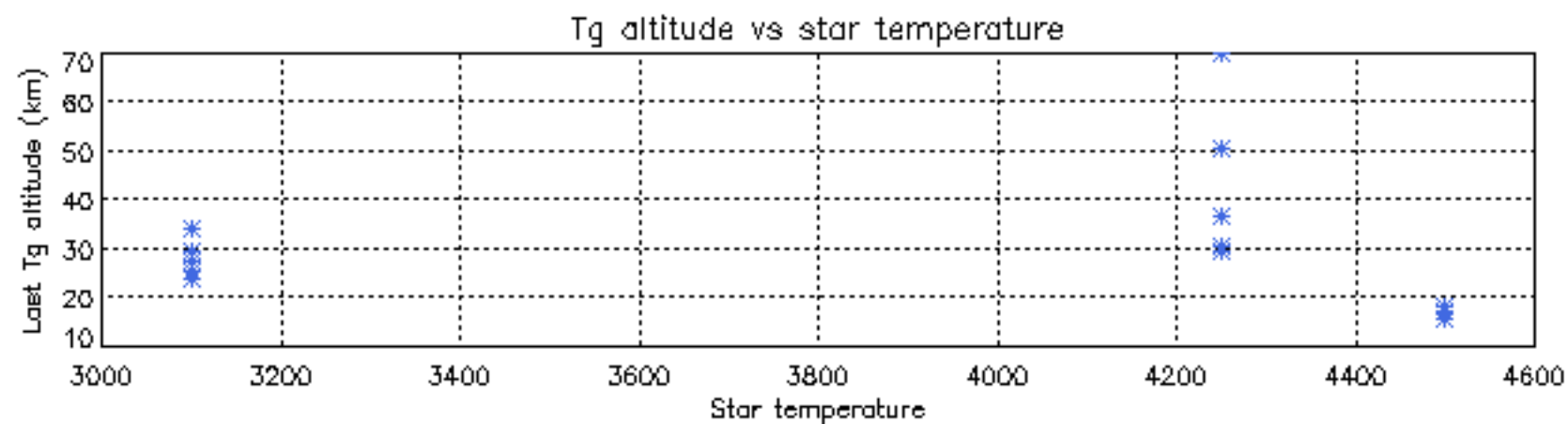
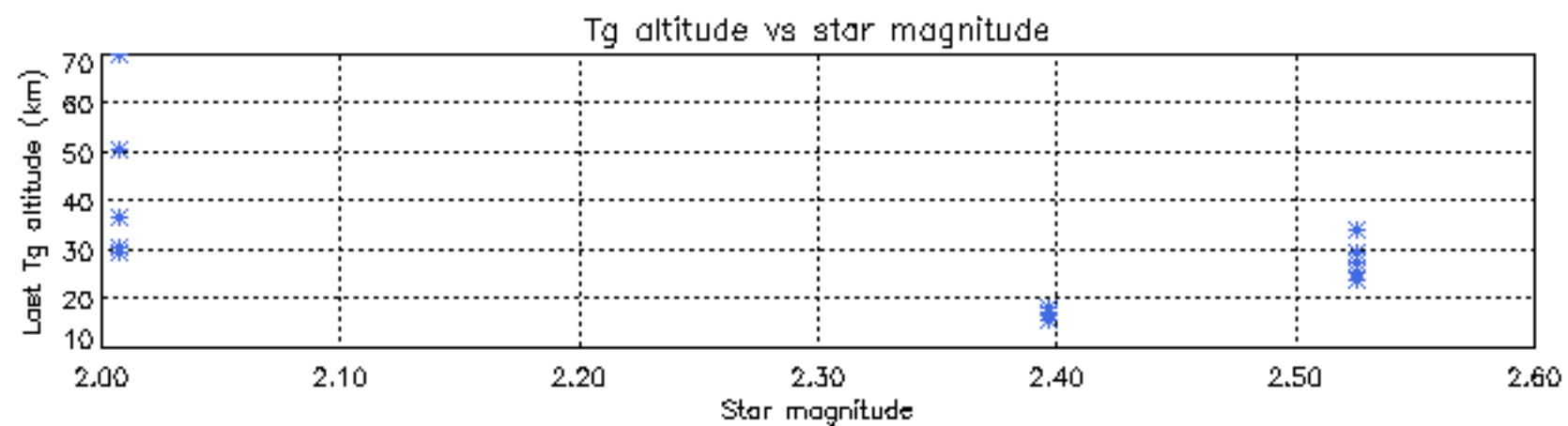
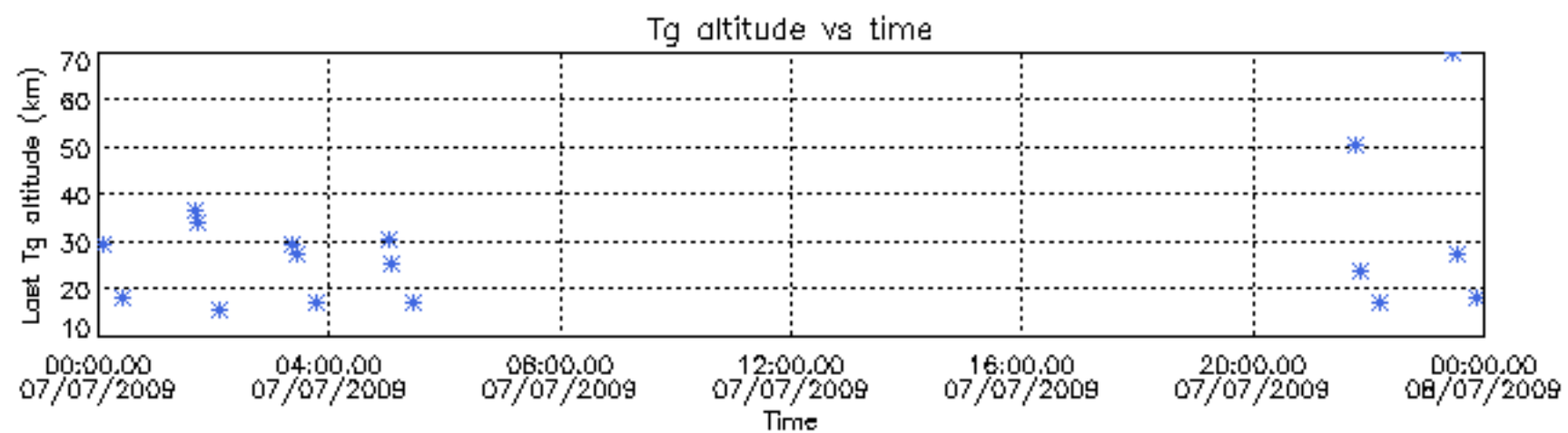
Percentage of star falling outside central band per profile



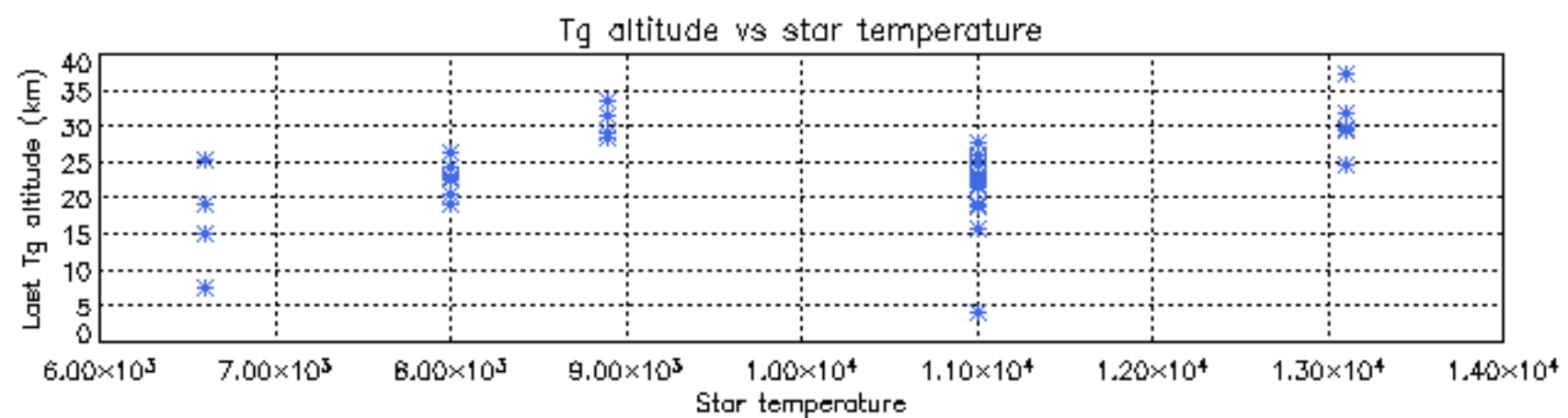
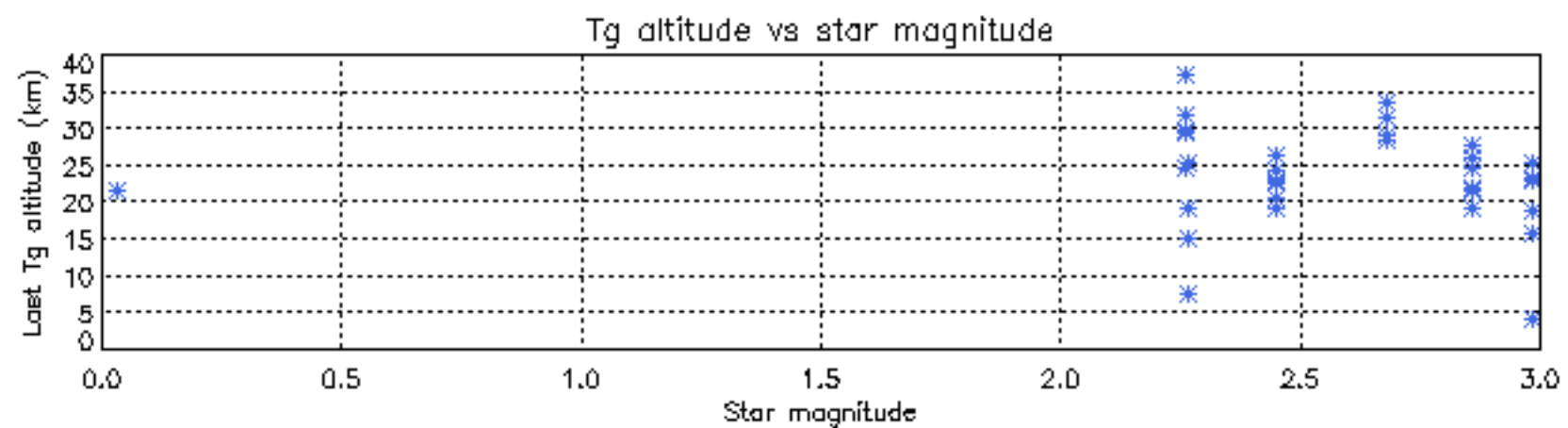
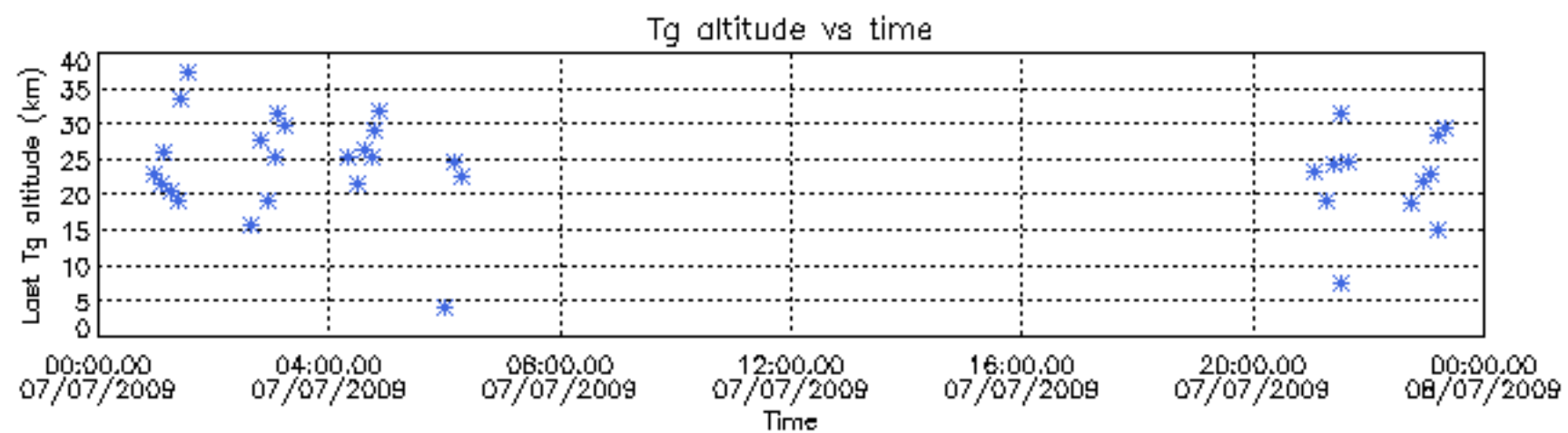
Percentage of saturation errors per profile

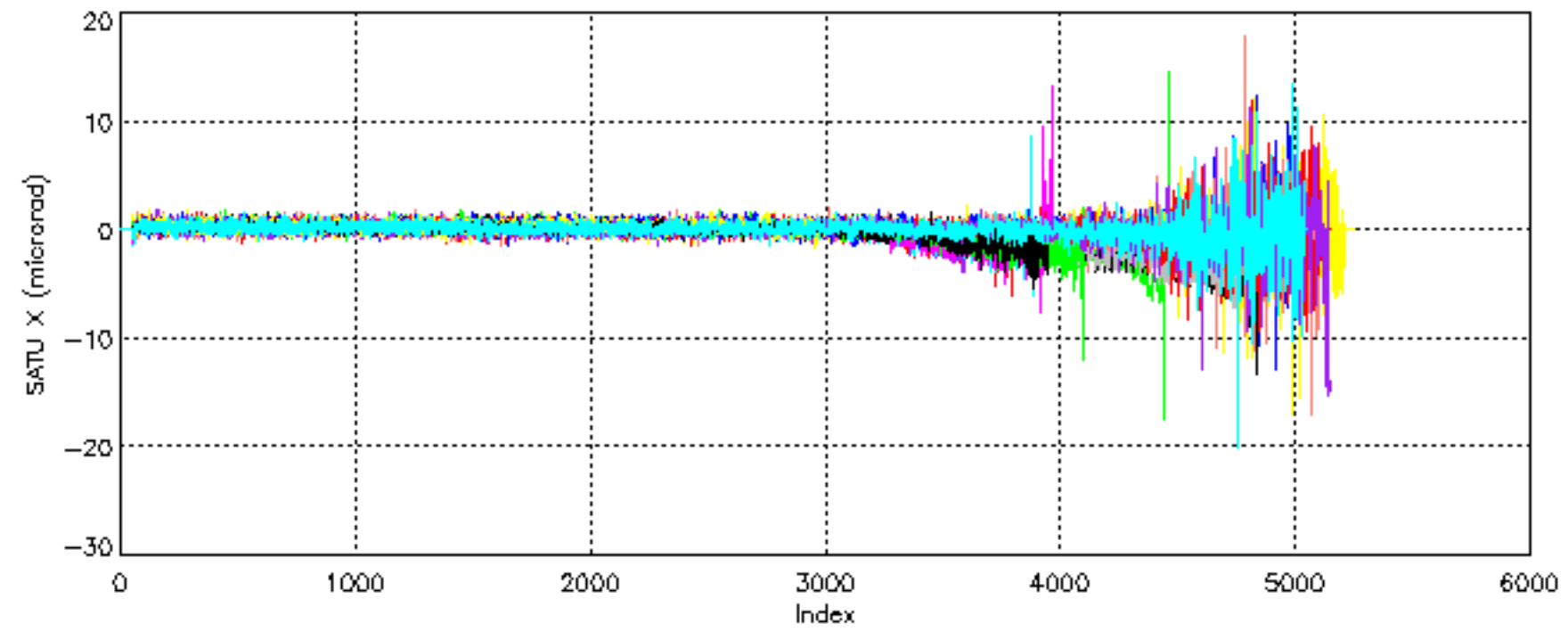


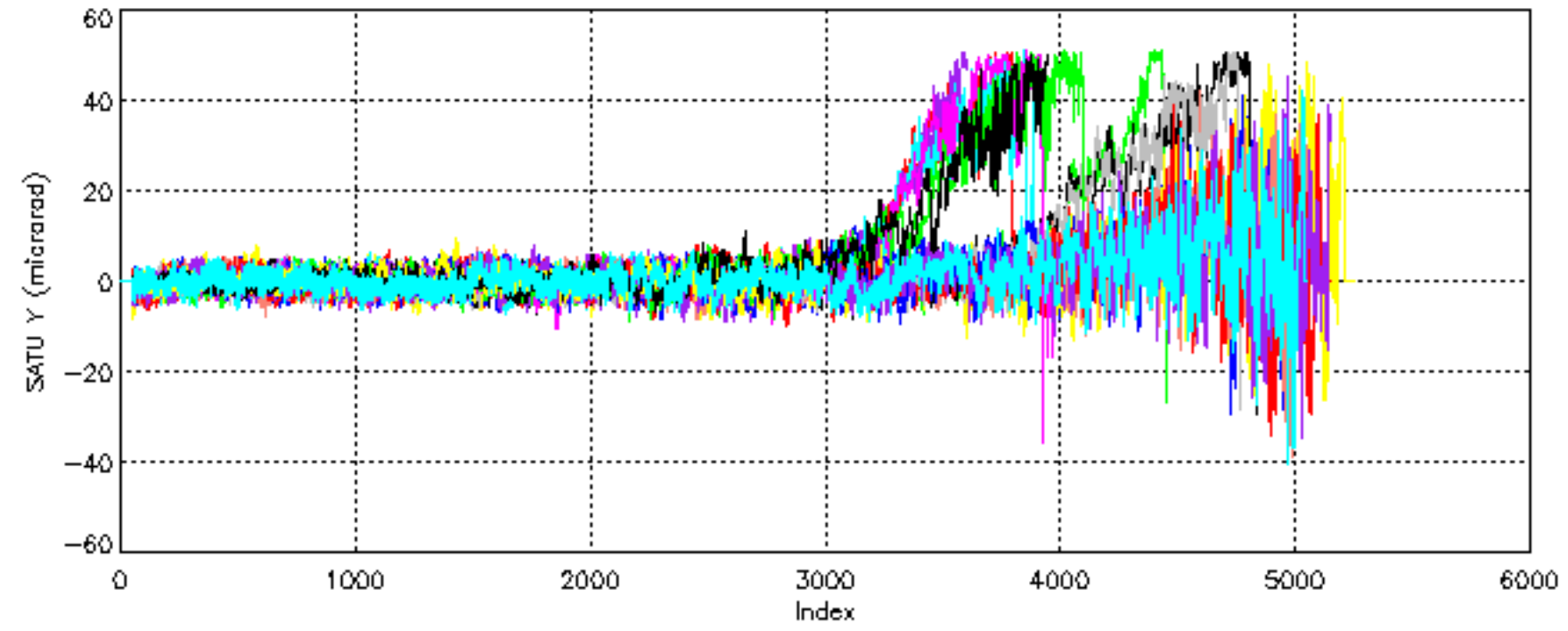
Tangent altitude at which the star is lost

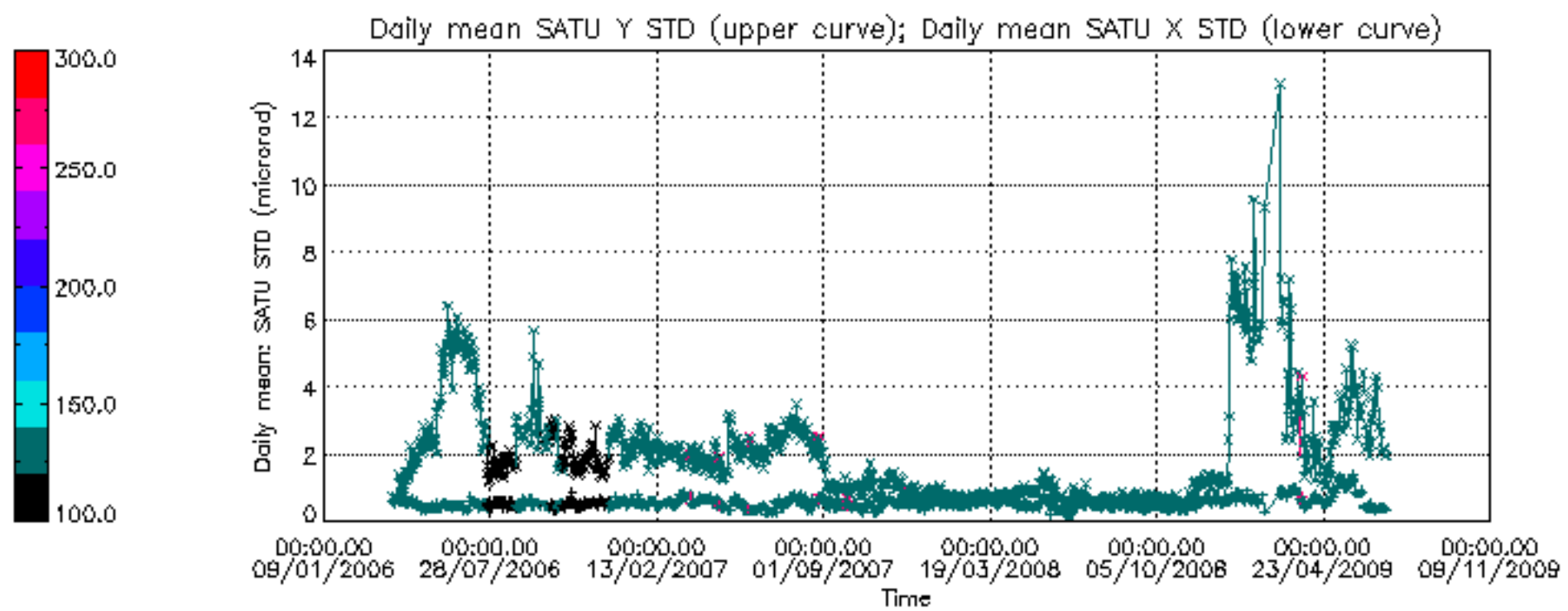


Tangent altitude at which the star is lost









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9; 2921.8; 01-JUL-2009 02:38:08; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38348
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7; 489.1; 01-JUL-2009 03:38:11; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38349
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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
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7; 2217.8; 02-JUL-2009 22:01:58; Bright; 69.0; 168; 17Zet Aql ; 2.99; 11000;occ; 138; 0;38374
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6; 2198.2; 06-JUL-2009 01:28:35; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38419
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6; 2197.9; 06-JUL-2009 03:09:10; Bright; 47.5; 168; 17Zet Aql ; 2.99; 11000;occ; 95; 0;38420
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4; 3288.8; 06-JUL-2009 20:13:21; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;38430
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 4; 3290.1; 06-JUL-2009 16:52:10; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;38428
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 6; 3851.3; 06-JUL-2009 17:01:31; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;38428
 7; 4259.8; 06-JUL-2009 17:08:20; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;38428
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 9; 5016.6; 06-JUL-2009 17:20:57; Dark ; 38.0; 94; 92Alp Cet ; 2.53; 3100;occ; 76; 0;38428
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12; 6600.8; 06-JUL-2009 17:47:21; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38428
13; 6710.7; 06-JUL-2009 17:49:11; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38428
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 3; 2857.3; 06-JUL-2009 18:25:33; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;38429
 4; 3289.2; 06-JUL-2009 18:32:45; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38429
 5; 3739.4; 06-JUL-2009 18:40:15; Bright; 72.0; 74; 11Bet Cas ; 2.27; 6600;occ; 144; 0;38429
 6; 3851.0; 06-JUL-2009 18:42:07; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38429
 7; 4259.8; 06-JUL-2009 18:48:56; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;38429
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 5; 862.8; 07-JUL-2009 00:34:42; Dark ; 56.5; 172; Gam Gru ; 3.00; 13100;occ; 113; 0;38433
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 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
 10; 3844.4; 08-JUL-2009 00:52:47; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;38447
 11; 4257.7; 08-JUL-2009 00:59:40; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38447
 12; 4431.9; 08-JUL-2009 01:02:34; Dark ; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;38447
 13; 4718.2; 08-JUL-2009 01:07:21; Dark ; 30.0; 50; 13Alp Ari ; 2.01; 4250;occ; 60; 0;38447
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 3; -1777.0; 07-JUL-2009 06:33:06; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;38436
 4; -1604.9; 07-JUL-2009 06:35:58; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 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
 8; 193.7; 07-JUL-2009 07:05:57; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;38437
 9; 572.4; 07-JUL-2009 07:12:16; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;38437
 10; 681.3; 07-JUL-2009 07:14:05; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38437
 11; 866.6; 07-JUL-2009 07:17:10; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;38437

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 2; 2851.8; 07-JUL-2009 07:50:15; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38437
 3; 3284.4; 07-JUL-2009 07:57:28; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38437
 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
 11; 6230.7; 07-JUL-2009 08:46:34; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38437
 12; 6609.2; 07-JUL-2009 08:52:53; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;38437
 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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 2; 2851.0; 07-JUL-2009 09:30:50; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;38438
 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
14; 6904.6; 07-JUL-2009 10:38:24; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38438
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 2; 2850.3; 07-JUL-2009 11:11:25; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;38439
 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
 6; 4431.1; 07-JUL-2009 11:37:46; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;38439
 7; 4714.9; 07-JUL-2009 11:42:30; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;38439
 8; 5022.3; 07-JUL-2009 11:47:37; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;38439
 9; 5593.7; 07-JUL-2009 11:57:09; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38439
10; 6233.0; 07-JUL-2009 12:07:48; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;38439
11; 6611.0; 07-JUL-2009 12:14:06; Dark ; 67.0; 63; Bet Gru ; 2.15; 2800;occ; 134; 0;38439
12; 6719.5; 07-JUL-2009 12:15:55; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38439
13; 6905.6; 07-JUL-2009 12:19:01; Dark ; 56.5; 172; Gam Gru ; 3.00; 13100;occ; 113; 0;38439
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 3; 3282.2; 07-JUL-2009 12:59:13; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38440
 4; 3732.9; 07-JUL-2009 13:06:44; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38440
 5; 3847.0; 07-JUL-2009 13:08:38; Bright; 42.0; 110; 37Del Cas ; 2.68; 8900;occ; 84; 0;38440
 6; 4258.4; 07-JUL-2009 13:15:29; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;38440
 7; 4431.5; 07-JUL-2009 13:18:22; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;38440
 8; 4715.2; 07-JUL-2009 13:23:06; Dark ; 53.0; 50; 13Alp Ari ; 2.01; 4250;occ; 106; 0;38440
 9; 5023.0; 07-JUL-2009 13:28:14; Dark ; 41.5; 94; 92Alp Cet ; 2.53; 3100;occ; 83; 0;38440
10; 5594.8; 07-JUL-2009 13:37:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38440
11; 6234.2; 07-JUL-2009 13:48:25; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;38440
12; 6611.9; 07-JUL-2009 13:54:43; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38440
13; 6720.4; 07-JUL-2009 13:56:31; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38440
14; 6906.3; 07-JUL-2009 13:59:37; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;38440
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 2; 2848.7; 07-JUL-2009 14:32:36; Bright; 45.5; 144; 18Del Cyg ; 2.86; 11000;occ; 91; 0;38441
 3; 3281.7; 07-JUL-2009 14:39:49; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38441
 4; 3732.5; 07-JUL-2009 14:47:19; Bright; 52.5; 74; 11Bet Cas ; 2.27; 6600;occ; 105; 0;38441
 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
 7; 4431.5; 07-JUL-2009 14:58:58; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;38441
 8; 4715.8; 07-JUL-2009 15:03:43; Dark ; 51.0; 50; 13Alp Ari ; 2.01; 4250;occ; 102; 0;38441
 9; 5023.5; 07-JUL-2009 15:08:50; Dark ; 41.5; 94; 92Alp Cet ; 2.53; 3100;occ; 83; 0;38441
10; 5595.9; 07-JUL-2009 15:18:23; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38441
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12; 6612.8; 07-JUL-2009 15:35:20; Dark ; 63.5; 63; Bet Gru ; 2.15; 2800;occ; 127; 0;38441
13; 6721.3; 07-JUL-2009 15:37:08; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38441
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 3; 3281.0; 07-JUL-2009 16:20:24; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;38442
 4; 3731.8; 07-JUL-2009 16:27:55; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;38442
 5; 3846.6; 07-JUL-2009 16:29:49; Bright; 40.5; 110; 37Del Cas ; 2.68; 8900;occ; 81; 0;38442
 6; 4258.2; 07-JUL-2009 16:36:41; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;38442
 7; 4431.4; 07-JUL-2009 16:39:34; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;38442
 8; 4716.1; 07-JUL-2009 16:44:19; Dark ; 47.0; 50; 13Alp Ari ; 2.01; 4250;occ; 94; 0;38442
 9; 5024.0; 07-JUL-2009 16:49:27; Dark ; 41.5; 94; 92Alp Cet ; 2.53; 3100;occ; 83; 0;38442
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11; 6236.4; 07-JUL-2009 17:09:39; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38442
12; 6613.8; 07-JUL-2009 17:15:57; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38442
13; 6722.1; 07-JUL-2009 17:17:45; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38442
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 3; 3280.4; 07-JUL-2009 18:00:59; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38443
 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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7; 4431.5; 07-JUL-2009 18:20:10; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;38443
8; 4716.4; 07-JUL-2009 18:24:55; Dark ; 47.0; 50; 13Alp Ari ; 2.01; 4250;occ; 94; 0;38443
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13; 6723.0; 07-JUL-2009 18:58:22; Dark ; 55.0; 31; Alp Gru ; 1.73; 15200;occ; 110; 0;38443
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3; 3279.7; 07-JUL-2009 19:41:35; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;38444
4; 3730.4; 07-JUL-2009 19:49:05; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;38444
5; 3845.6; 07-JUL-2009 19:51:00; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38444
6; 4258.0; 07-JUL-2009 19:57:53; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38444
7; 4431.7; 07-JUL-2009 20:00:46; Dark ; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;38444
8; 4717.1; 07-JUL-2009 20:05:32; Dark ; 39.0; 50; 13Alp Ari ; 2.01; 4250;occ; 78; 0;38444
9; 5024.9; 07-JUL-2009 20:10:40; Dark ; 39.5; 94; 92Alp Cet ; 2.53; 3100;occ; 79; 0;38444
10; 5599.2; 07-JUL-2009 20:20:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38444
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12; 6615.8; 07-JUL-2009 20:37:11; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38444
13; 6723.8; 07-JUL-2009 20:38:59; Dark ; 54.5; 31; Alp Gru ; 1.73; 15200;occ; 109; 0;38444
14; 6910.1; 07-JUL-2009 20:42:05; Dark ; 46.0; 172; Gam Gru ; 3.00; 13100;occ; 92; 0;38444
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3; 582.4; 08-JUL-2009 01:39:01; Dark ; 64.5; 63; Bet Gru ; 2.15; 2800;occ; 129; 0;38448
4; 690.4; 08-JUL-2009 01:40:49; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38448
5; 876.7; 08-JUL-2009 01:43:55; Dark ; 56.5; 172; Gam Gru ; 3.00; 13100;occ; 113; 0;38448
6; 2187.5; 08-JUL-2009 02:05:46; Bright; 44.0; 168; 17Zet Aql ; 2.99; 11000;occ; 88; 0;38448
7; 2844.0; 08-JUL-2009 02:16:42; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38448
8; 3277.2; 08-JUL-2009 02:23:56; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;38448
9; 3728.0; 08-JUL-2009 02:31:26; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38448
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7; 583.5; 08-JUL-2009 03:19:38; Dark ; 56.5; 63; Bet Gru ; 2.15; 2800;occ; 113; 0;38449
8; 691.2; 08-JUL-2009 03:21:26; Dark ; 55.0; 31; Alp Gru ; 1.73; 15200;occ; 110; 0;38449
9; 877.7; 08-JUL-2009 03:24:32; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38449
10; 2187.4; 08-JUL-2009 03:46:22; Bright; 45.0; 168; 17Zet Aql ; 2.99; 11000;occ; 90; 0;38449
11; 2843.4; 08-JUL-2009 03:57:18; Bright; 44.5; 144; 18Del Cyg ; 2.86; 11000;occ; 89; 0;38449
12; 3276.5; 08-JUL-2009 04:04:31; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38449
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9; 691.8; 08-JUL-2009 05:02:02; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38450
10; 878.9; 08-JUL-2009 05:05:09; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38450
11; 2187.1; 08-JUL-2009 05:26:57; Bright; 44.0; 168; 17Zet Aql ; 2.99; 11000;occ; 88; 0;38450
12; 2842.8; 08-JUL-2009 05:37:53; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38450
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3; -1778.5; 08-JUL-2009 06:01:28; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;38450
4; -1604.0; 08-JUL-2009 06:04:22; Dark ; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;38450

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3; 3269.9; 08-JUL-2009 20:50:24; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38459
4; 3721.5; 08-JUL-2009 20:57:55; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;38459
5; 3840.0; 08-JUL-2009 20:59:54; Bright; 40.0; 110; 37Del Cas ; 2.68; 8900;occ; 80; 0;38459
6; 4298.1; 08-JUL-2009 21:07:32; Bright; 34.5; 79; 26Bet Per ; 2.31; 13100;occ; 69; 0;38459
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3; 593.2; 08-JUL-2009 21:46:23; Dark ; 54.0; 63; Bet Gru ; 2.15; 2800;occ; 108; 0;38460
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5; 887.6; 08-JUL-2009 21:51:17; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38460
6; 2183.6; 08-JUL-2009 22:12:53; Bright; 42.5; 168; 17Zet Aql ; 2.99; 11000;occ; 85; 0;38460
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8; 3269.3; 08-JUL-2009 22:30:59; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;38460
9; 3720.6; 08-JUL-2009 22:38:30; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;38460
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12; 4432.6; 08-JUL-2009 22:50:22; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;38460
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5; 888.4; 08-JUL-2009 23:31:54; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38461
6; 2183.3; 08-JUL-2009 23:53:29; Bright; 42.5; 168; 17Zet Aql ; 2.99; 11000;occ; 85; 0;38461
7; 2835.1; 09-JUL-2009 00:04:21; Bright; 45.5; 144; 18Del Cyg ; 2.86; 11000;occ; 91; 0;38461
8; 3268.9; 09-JUL-2009 00:11:34; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38461
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4; -1007.0; 08-JUL-2009 07:54:55; Dark ; 41.0; 94; 92Alp Cet ; 2.53; 3100;occ; 82; 0;38451
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7; 586.1; 08-JUL-2009 08:21:28; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38452
8; 693.5; 08-JUL-2009 08:23:16; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38452
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3; 3274.5; 08-JUL-2009 09:06:17; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38452
4; 3725.7; 08-JUL-2009 09:13:48; Bright; 59.5; 74; 11Bet Cas ; 2.27; 6600;occ; 119; 0;38452
5; 3842.9; 08-JUL-2009 09:15:45; Bright; 39.5; 110; 37Del Cas ; 2.68; 8900;occ; 79; 0;38452
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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8; 5029.4; 08-JUL-2009 09:35:32; Dark ; 42.0; 94; 92Alp Cet ; 2.53; 3100;occ; 84; 0;38452
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 5; 3842.3; 08-JUL-2009 10:56:20; Bright; 41.5; 110; 37Del Cas ; 2.68; 8900;occ; 83; 0;38453
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9; 623.7; 11-JUL-2009 06:47:15; Dark ; 62.0; 63; Bet Gru ; 2.15; 2800;occ; 124; 0;38494
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4; 3699.4; 11-JUL-2009 07:38:31; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;38494
5; 3826.4; 11-JUL-2009 07:40:38; Bright; 42.0; 110; 37Del Cas ; 2.68; 8900;occ; 84; 0;38494
6; 4049.7; 11-JUL-2009 07:44:21; Bright; 51.0; 160; 23Gam Per ; 2.93; 4700;occ; 102; 0;38494
7; 4251.3; 11-JUL-2009 07:47:42; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;38494
8; 4434.4; 11-JUL-2009 07:50:46; Dark ; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;38494
9; 5054.4; 11-JUL-2009 08:01:06; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;38494
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3; 3247.6; 11-JUL-2009 09:11:35; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38495
4; 3698.7; 11-JUL-2009 09:19:06; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38495
5; 3826.1; 11-JUL-2009 09:21:13; Bright; 40.5; 110; 37Del Cas ; 2.68; 8900;occ; 81; 0;38495
6; 4049.4; 11-JUL-2009 09:24:57; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;38495
7; 4250.9; 11-JUL-2009 09:28:18; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;38495
8; 4434.1; 11-JUL-2009 09:31:21; Dark ; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;38495

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3; 3247.0; 11-JUL-2009 10:52:10; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38496
4; 3698.1; 11-JUL-2009 10:59:41; Bright; 64.0; 74; 11Bet Cas ; 2.27; 6600;occ; 128; 0;38496
5; 3825.6; 11-JUL-2009 11:01:49; Bright; 57.0; 110; 37Del Cas ; 2.68; 8900;occ; 114; 0;38496
6; 4049.2; 11-JUL-2009 11:05:32; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38496
7; 4250.7; 11-JUL-2009 11:08:54; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;38496
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13; 6765.0; 11-JUL-2009 11:50:48; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;38496
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6; 4049.1; 11-JUL-2009 12:46:08; Bright; 38.0; 160; 23Gam Per ; 2.93; 4700;occ; 76; 0;38497
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5; 3824.8; 11-JUL-2009 14:23:00; Bright; 40.0; 110; 37Del Cas ; 2.68; 8900;occ; 80; 0;38498
6; 4049.2; 11-JUL-2009 14:26:44; Bright; 35.0; 160; 23Gam Per ; 2.93; 4700;occ; 70; 0;38498
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8; 4434.4; 11-JUL-2009 14:33:09; Dark ; 33.0; 173; 4Bet Tri ; 3.00; 8900;occ; 66; 0;38498
9; 5056.9; 11-JUL-2009 14:43:32; Dark ; 43.5; 94; 92Alp Cet ; 2.53; 3100;occ; 87; 0;38498
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13; 6766.9; 11-JUL-2009 15:12:02; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38498
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4; 3229.2; 13-JUL-2009 11:29:14; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38525
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3; 2947.8; 13-JUL-2009 13:05:09; Bright; 54.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 108; 0;38526
4; 3228.6; 13-JUL-2009 13:09:49; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38526
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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7; 4245.7; 13-JUL-2009 13:26:47; Bright; 60.0; 73; 57Gam1And ; 2.26; 13100;occ; 120; 0;38526
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13; 6690.4; 13-JUL-2009 17:28:43; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38528
14; 6789.9; 13-JUL-2009 17:30:23; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38528
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4; 3226.8; 13-JUL-2009 18:11:36; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38529
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11; 5421.0; 13-JUL-2009 18:48:10; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38529
12; 6334.0; 13-JUL-2009 19:03:23; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38529
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6; 2163.6; 14-JUL-2009 02:16:52; Bright; 40.5; 168; 17Zet Aql ; 2.99; 11000;occ; 81; 0;38534
7; 2790.5; 14-JUL-2009 02:27:19; Bright; 43.5; 144; 18Del Cyg ; 2.86; 11000;occ; 87; 0;38534

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11; 5428.7; 14-JUL-2009 09:53:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38538
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3; 2936.1; 14-JUL-2009 10:52:44; Bright; 51.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 103; 0;38539
4; 3220.9; 14-JUL-2009 10:57:29; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38539
5; 3669.3; 14-JUL-2009 11:04:57; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38539
6; 3807.6; 14-JUL-2009 11:07:16; Bright; 41.5; 110; 37Del Cas ; 2.68; 8900;occ; 83; 0;38539
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8; 4122.6; 14-JUL-2009 11:12:31; Bright; 41.5; 35; 33Alp Per ; 1.79; 6250;occ; 83; 0;38539
9; 4243.2; 14-JUL-2009 11:14:31; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;38539
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11; 5429.6; 14-JUL-2009 11:34:18; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38539
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13; 6699.4; 14-JUL-2009 11:55:27; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38539
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5; 3668.0; 14-JUL-2009 14:26:08; Bright; 73.0; 74; 11Bet Cas ; 2.27; 6600;occ; 146; 0;38541
6; 3806.8; 14-JUL-2009 14:28:27; Bright; 67.0; 110; 37Del Cas ; 2.68; 8900;occ; 134; 0;38541
7; 4042.8; 14-JUL-2009 14:32:23; Bright; 38.5; 160; 23Gam Per ; 2.93; 4700;occ; 77; 0;38541
8; 4122.4; 14-JUL-2009 14:33:42; Bright; 44.0; 35; 33Alp Per ; 1.79; 6250;occ; 88; 0;38541
9; 4242.9; 14-JUL-2009 14:35:43; Bright; 31.0; 73; 57Gam1And ; 2.26; 13100;occ; 62; 0;38541
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13; 6701.1; 14-JUL-2009 15:16:41; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38541
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4; 3219.2; 14-JUL-2009 15:59:15; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38542
5; 3667.4; 14-JUL-2009 16:06:43; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38542
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 3; 668.7; 14-JUL-2009 21:59:08; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;38546
 4; 766.4; 14-JUL-2009 22:00:46; Dark ; 55.0; 31; Alp Gru ; 1.73; 15200;occ; 110; 0;38546
 5; 958.7; 14-JUL-2009 22:03:58; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38546
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 9; 3216.7; 14-JUL-2009 22:41:36; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38546
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11; 3804.8; 14-JUL-2009 22:51:24; Bright; 44.5; 110; 37Del Cas ; 2.68; 8900;occ; 89; 0;38546
12; 4041.9; 14-JUL-2009 22:55:21; Bright; 52.5; 160; 23Gam Per ; 2.93; 4700;occ; 105; 0;38546
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 3; 669.3; 14-JUL-2009 23:39:45; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;38547
 4; 766.9; 14-JUL-2009 23:41:22; Dark ; 53.5; 31; Alp Gru ; 1.73; 15200;occ; 107; 0;38547
 5; 959.4; 14-JUL-2009 23:44:35; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38547
 6; 2109.9; 15-JUL-2009 00:03:45; Bright; 49.5; 11; 53Alp Aql ; 0.76; 8000;occ; 99; 0;38547
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 9; 3216.0; 15-JUL-2009 00:22:11; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;38547
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13; 4121.8; 15-JUL-2009 00:37:17; Bright; 40.5; 35; 33Alp Per ; 1.79; 6250;occ; 81; 0;38547
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 3; 2932.6; 14-JUL-2009 17:35:04; Bright; 52.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 104; 0;38543
 4; 3218.7; 14-JUL-2009 17:39:50; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38543
 5; 3666.7; 14-JUL-2009 17:47:18; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38543
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13; 6350.0; 14-JUL-2009 18:32:02; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38543
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 6; 3666.2; 14-JUL-2009 19:27:54; Bright; 51.5; 74; 11Bet Cas ; 2.27; 6600;occ; 103; 0;38544
 7; 3805.6; 14-JUL-2009 19:30:13; Bright; 45.5; 110; 37Del Cas ; 2.68; 8900;occ; 91; 0;38544
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 5; 960.4; 15-JUL-2009 01:25:12; Dark ; 53.0; 172; Gam Gru ; 3.00; 13100;occ; 106; 0;38548
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 9; 672.1; 15-JUL-2009 04:41:35; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38550
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5; 3660.4; 15-JUL-2009 08:52:35; Bright; 56.0; 74; 11Bet Cas ; 2.27; 6600;occ; 112; 0;38552
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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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8; 4121.2; 15-JUL-2009 10:40:52; Bright; 43.0; 35; 33Alp Per ; 1.79; 6250;occ; 86; 0;38553
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4; 3211.8; 15-JUL-2009 12:06:19; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38554
5; 3659.0; 15-JUL-2009 12:13:46; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38554
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8; 4121.1; 15-JUL-2009 12:21:28; Bright; 51.5; 35; 33Alp Per ; 1.79; 6250;occ; 103; 0;38554
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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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 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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 15; 6738.6; 17-JUL-2009 18:44:15; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;38586
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 5; 991.7; 18-JUL-2009 01:31:28; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38591
 6; 2153.4; 18-JUL-2009 01:50:50; Bright; 39.5; 168; 17Zet Aql ; 2.99; 11000;occ; 79; 0;38591
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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
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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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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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12; 3741.8; 18-JUL-2009 22:24:29; Bright; 34.0; 68; 18Alp Cas ; 2.22; 4500;occ; 68; 0;38603
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17; 5137.2; 19-JUL-2009 02:08:56; Dark ; 46.5; 94; 92Alp Cet ; 2.53; 3100;occ; 93; 0;38605
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17; 4481.5; 21-JUL-2009 22:42:34; Dark ; 44.5; 150; 44Zet Per ; 2.89; 28000;occ; 89; 0;38646
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090722_003730_000053902081_00016_38647_8202.N1


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3; -103.8; 25-JUL-2009 21:00:16; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;38702
4; 496.1; 25-JUL-2009 21:10:16; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38703
5; 870.6; 25-JUL-2009 21:16:31; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;38703
6; 1062.3; 25-JUL-2009 21:19:43; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38703
7; 2069.2; 25-JUL-2009 21:36:29; Bright; 41.0; 11; 53Alp Aql ; 0.76; 8000;occ; 82; 0;38703
8; 2634.0; 25-JUL-2009 21:45:54; Bright; 46.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 93; 0;38703
9; 2813.7; 25-JUL-2009 21:48:54; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38703
10; 3131.4; 25-JUL-2009 21:54:12; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38703
11; 3549.0; 25-JUL-2009 22:01:09; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38703
12; 3654.9; 25-JUL-2009 22:02:55; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38703
13; 4007.3; 25-JUL-2009 22:08:47; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38703
14; 4099.2; 25-JUL-2009 22:10:19; Bright; 47.5; 35; 33Alp Per ; 1.79; 6250;occ; 95; 0;38703
15; 4287.2; 25-JUL-2009 22:13:27; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38703
16; 4489.1; 25-JUL-2009 22:16:49; Dark ; 49.5; 150; 44Zet Per ; 2.89; 28000;occ; 99; 0;38703
17; 4663.3; 25-JUL-2009 22:19:43; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38703
18; 4758.6; 25-JUL-2009 22:21:19; Dark ; 45.5; 13; 87Alp Tau ; 0.87; 3800;occ; 91; 0;38703
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4; 497.3; 25-JUL-2009 22:50:53; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38704
5; 871.0; 25-JUL-2009 22:57:07; Dark ; 53.0; 31; Alp Gru ; 1.73; 15200;occ; 106; 0;38704
6; 1062.8; 25-JUL-2009 23:00:19; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38704
7; 2069.1; 25-JUL-2009 23:17:05; Bright; 41.5; 11; 53Alp Aql ; 0.76; 8000;occ; 83; 0;38704
8; 2633.3; 25-JUL-2009 23:26:29; Bright; 46.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 93; 0;38704
9; 2813.1; 25-JUL-2009 23:29:29; Bright; 64.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 128; 0;38704
10; 3131.0; 25-JUL-2009 23:34:47; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38704
11; 3548.1; 25-JUL-2009 23:41:44; Bright; 73.5; 74; 11Bet Cas ; 2.27; 6600;occ; 147; 0;38704
12; 3654.3; 25-JUL-2009 23:43:30; Bright; 48.5; 76; 27Gam Cas ; 2.30; 30000;occ; 97; 0;38704
13; 4007.0; 25-JUL-2009 23:49:23; Bright; 43.0; 160; 23Gam Per ; 2.93; 4700;occ; 86; 0;38704
14; 4098.9; 25-JUL-2009 23:50:55; Bright; 47.0; 35; 33Alp Per ; 1.79; 6250;occ; 94; 0;38704
15; 4287.2; 25-JUL-2009 23:54:03; Bright; 53.0; 79; 26Bet Per ; 2.31; 13100;occ; 106; 0;38704
16; 4489.3; 25-JUL-2009 23:57:25; Dark ; 46.5; 150; 44Zet Per ; 2.89; 28000;occ; 93; 0;38704
17; 4663.7; 26-JUL-2009 00:00:20; Dark ; 51.0; 146; 25Eta Tau ; 2.87; 15200;occ; 102; 0;38704
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3; -1934.8; 25-JUL-2009 07:04:58; Bright; 48.0; 35; 33Alp Per ; 1.79; 6250;occ; 96; 0;38694
4; -1747.6; 25-JUL-2009 07:08:05; Bright; 51.0; 79; 26Bet Per ; 2.31; 13100;occ; 102; 0;38694
5; -1548.2; 25-JUL-2009 07:11:25; Dark ; 50.0; 150; 44Zet Per ; 2.89; 28000;occ; 100; 0;38694
6; -1375.6; 25-JUL-2009 07:14:17; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38694
7; -1280.1; 25-JUL-2009 07:15:53; Dark ; 50.5; 13; 87Alp Tau ; 0.87; 3800;occ; 101; 0;38694
8; -669.3; 25-JUL-2009 07:26:03; Dark ; 49.5; 165; 34Gam Eri ; 2.95; 3200;occ; 99; 0;38694
9; -440.7; 25-JUL-2009 07:29:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38694
10; -110.7; 25-JUL-2009 07:35:22; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38694

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13; 1057.8; 25-JUL-2009 07:54:50; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38695
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3; 2818.8; 25-JUL-2009 08:24:12; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38695
4; 3135.5; 25-JUL-2009 08:29:28; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38695
5; 3555.3; 25-JUL-2009 08:36:28; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38695
6; 3660.0; 25-JUL-2009 08:38:13; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38695
7; 4009.7; 25-JUL-2009 08:44:02; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;38695
8; 4100.9; 25-JUL-2009 08:45:34; Bright; 64.0; 35; 33Alp Per ; 1.79; 6250;occ; 128; 0;38695
9; 4288.3; 25-JUL-2009 08:48:41; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38695
10; 4488.0; 25-JUL-2009 08:52:01; Dark ; 48.0; 150; 44Zet Per ; 2.89; 28000;occ; 96; 0;38695
11; 4660.6; 25-JUL-2009 08:54:53; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38695
12; 4756.2; 25-JUL-2009 08:56:29; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;38695
13; 5367.4; 25-JUL-2009 09:06:40; Dark ; 50.5; 165; 34Gam Eri ; 2.95; 3200;occ; 101; 0;38695
14; 5596.5; 25-JUL-2009 09:10:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38695
15; 5926.0; 25-JUL-2009 09:15:59; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;38695
16; 6524.3; 25-JUL-2009 09:25:57; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38695
17; 6902.2; 25-JUL-2009 09:32:15; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38695
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2; 2639.2; 25-JUL-2009 10:01:48; Bright; 70.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 140; 0;38696
3; 2818.2; 25-JUL-2009 10:04:47; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38696
4; 3134.8; 25-JUL-2009 10:10:03; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38696
5; 3554.5; 25-JUL-2009 10:17:03; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;38696
6; 3659.3; 25-JUL-2009 10:18:48; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38696
7; 4009.2; 25-JUL-2009 10:24:38; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;38696
8; 4100.7; 25-JUL-2009 10:26:09; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38696
9; 4288.1; 25-JUL-2009 10:29:17; Bright; 52.0; 79; 26Bet Per ; 2.31; 13100;occ; 104; 0;38696
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11; 4661.0; 25-JUL-2009 10:35:30; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38696
12; 4756.5; 25-JUL-2009 10:37:05; Dark ; 59.0; 13; 87Alp Tau ; 0.87; 3800;occ; 118; 0;38696
13; 5368.1; 25-JUL-2009 10:47:17; Dark ; 46.0; 165; 34Gam Eri ; 2.95; 3200;occ; 92; 0;38696
14; 5597.8; 25-JUL-2009 10:51:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38696
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17; 6902.8; 25-JUL-2009 11:12:51; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;38696
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3; 2817.6; 25-JUL-2009 11:45:22; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38697
4; 3134.4; 25-JUL-2009 11:50:39; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38697
5; 3553.7; 25-JUL-2009 11:57:38; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38697
6; 3658.7; 25-JUL-2009 11:59:23; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38697
7; 4009.0; 25-JUL-2009 12:05:13; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;38697
8; 4100.5; 25-JUL-2009 12:06:45; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38697
9; 4288.0; 25-JUL-2009 12:09:52; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38697
10; 4488.2; 25-JUL-2009 12:13:13; Dark ; 48.5; 150; 44Zet Per ; 2.89; 28000;occ; 97; 0;38697
11; 4661.3; 25-JUL-2009 12:16:06; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;38697
12; 4756.7; 25-JUL-2009 12:17:41; Dark ; 58.5; 13; 87Alp Tau ; 0.87; 3800;occ; 117; 0;38697
13; 5368.9; 25-JUL-2009 12:27:53; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;38697
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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
18; 7095.3; 25-JUL-2009 12:56:40; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38697
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2; 2637.7; 25-JUL-2009 13:22:58; Bright; 49.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 99; 0;38698
3; 2817.0; 25-JUL-2009 13:25:57; Bright; 58.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 117; 0;38698
4; 3133.9; 25-JUL-2009 13:31:14; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38698
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
7; 4100.3; 25-JUL-2009 13:47:21; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 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
 10; 4661.8; 25-JUL-2009 13:56:42; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38698
 11; 4757.1; 25-JUL-2009 13:58:17; Dark ; 49.5; 13; 87Alp Tau ; 0.87; 3800;occ; 99; 0;38698
 12; 5369.8; 25-JUL-2009 14:08:30; Dark ; 49.0; 165; 34Gam Eri ; 2.95; 3200;occ; 98; 0;38698
 13; 5600.4; 25-JUL-2009 14:12:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38698
 14; 5928.6; 25-JUL-2009 14:17:49; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38698
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 3; 2816.3; 25-JUL-2009 15:06:33; Bright; 43.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 87; 0;38699
 4; 3133.4; 25-JUL-2009 15:11:50; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38699
 5; 3552.2; 25-JUL-2009 15:18:49; Bright; 67.5; 74; 11Bet Cas ; 2.27; 6600;occ; 135; 0;38699
 6; 3657.6; 25-JUL-2009 15:20:34; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38699
 7; 4008.6; 25-JUL-2009 15:26:25; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38699
 8; 4100.2; 25-JUL-2009 15:27:56; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 0;38699
 9; 4287.8; 25-JUL-2009 15:31:04; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38699
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 11; 4662.1; 25-JUL-2009 15:37:18; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38699
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 3; 2815.7; 25-JUL-2009 16:47:08; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38700
 4; 3133.0; 25-JUL-2009 16:52:25; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38700
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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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 12; 4757.7; 25-JUL-2009 17:19:30; Dark ; 57.5; 13; 87Alp Tau ; 0.87; 3800;occ; 115; 0;38700
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 14; 5603.1; 25-JUL-2009 17:33:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38700
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 8; 4007.9; 25-JUL-2009 18:47:36; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;38701
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 11; 4489.0; 25-JUL-2009 18:55:37; Dark ; 48.0; 150; 44Zet Per ; 2.89; 28000;occ; 96; 0;38701
 12; 4662.8; 25-JUL-2009 18:58:31; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 0;38701
 13; 4757.8; 25-JUL-2009 19:00:06; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;38701
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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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6; 1064.0; 26-JUL-2009 02:21:32; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38706
7; 2068.8; 26-JUL-2009 02:38:17; Bright; 43.0; 11; 53Alp Aql ; 0.76; 8000;occ; 86; 0;38706
8; 2631.9; 26-JUL-2009 02:47:40; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38706
9; 2811.9; 26-JUL-2009 02:50:40; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;38706
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6; -1546.4; 26-JUL-2009 03:18:37; Dark ; 48.5; 150; 44Zet Per ; 2.89; 28000;occ; 97; 0;38706
7; -1371.6; 26-JUL-2009 03:21:32; Dark ; 52.5; 146; 25Eta Tau ; 2.87; 15200;occ; 105; 0;38706
8; -1276.4; 26-JUL-2009 03:23:07; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;38706
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5; -1546.3; 26-JUL-2009 04:59:14; Dark ; 50.5; 150; 44Zet Per ; 2.89; 28000;occ; 101; 0;38707
6; -1371.4; 26-JUL-2009 05:02:08; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38707
7; -1276.0; 26-JUL-2009 05:03:44; Dark ; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;38707
8; -659.5; 26-JUL-2009 05:14:00; Dark ; 51.5; 165; 34Gam Eri ; 2.95; 3200;occ; 103; 0;38707
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11; 501.9; 26-JUL-2009 05:33:22; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38708
12; 873.4; 26-JUL-2009 05:39:33; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;38708
13; 1065.1; 26-JUL-2009 05:42:45; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38708
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17; 3129.1; 26-JUL-2009 06:17:09; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38708

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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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 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
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 16; 6561.5; 27-JUL-2009 16:46:20; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38728
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 11; 4671.9; 27-JUL-2009 17:55:26; Dark ; 52.0; 146; 25Eta Tau ; 2.87; 15200;occ; 104; 0;38729
 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
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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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 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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 13; 4493.0; 27-JUL-2009 19:33:03; Dark ; 51.0; 150; 44Zet Per ; 2.89; 28000;occ; 102; 0;38730
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 16; 5394.5; 27-JUL-2009 19:48:05; Dark ; 53.0; 165; 34Gam Eri ; 2.95; 3200;occ; 106; 0;38730
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 5; 888.3; 28-JUL-2009 01:15:22; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38734
 6; 1079.4; 28-JUL-2009 01:18:33; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38734
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 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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 5; 889.0; 28-JUL-2009 02:55:59; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38735
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12; 2586.6; 31-JUL-2009 03:30:01; Bright; 44.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 89; 0;38778
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