

GOMOS Daily Report 25-JUL-2009

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	28JUL2009 04:50:58
Data source version	GOMOS/5.00
Start time of products	25JUL2009 00:01:15
Stop time of products	25JUL2009 23:57:25
Store outputs in DB	Yes
Nb of level 1b prods	69
Nb of prods with errors	0

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

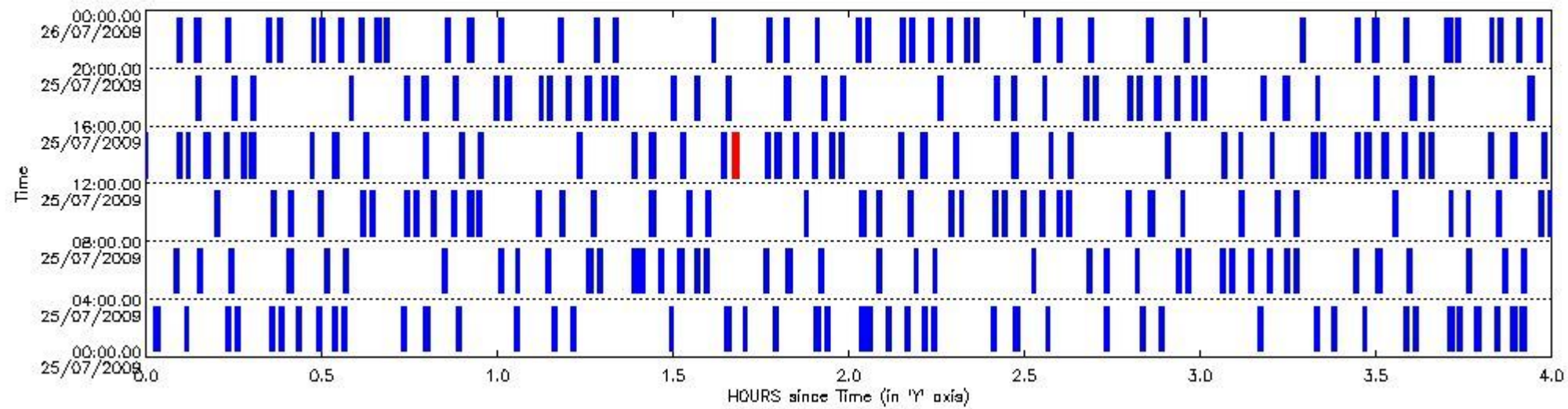
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

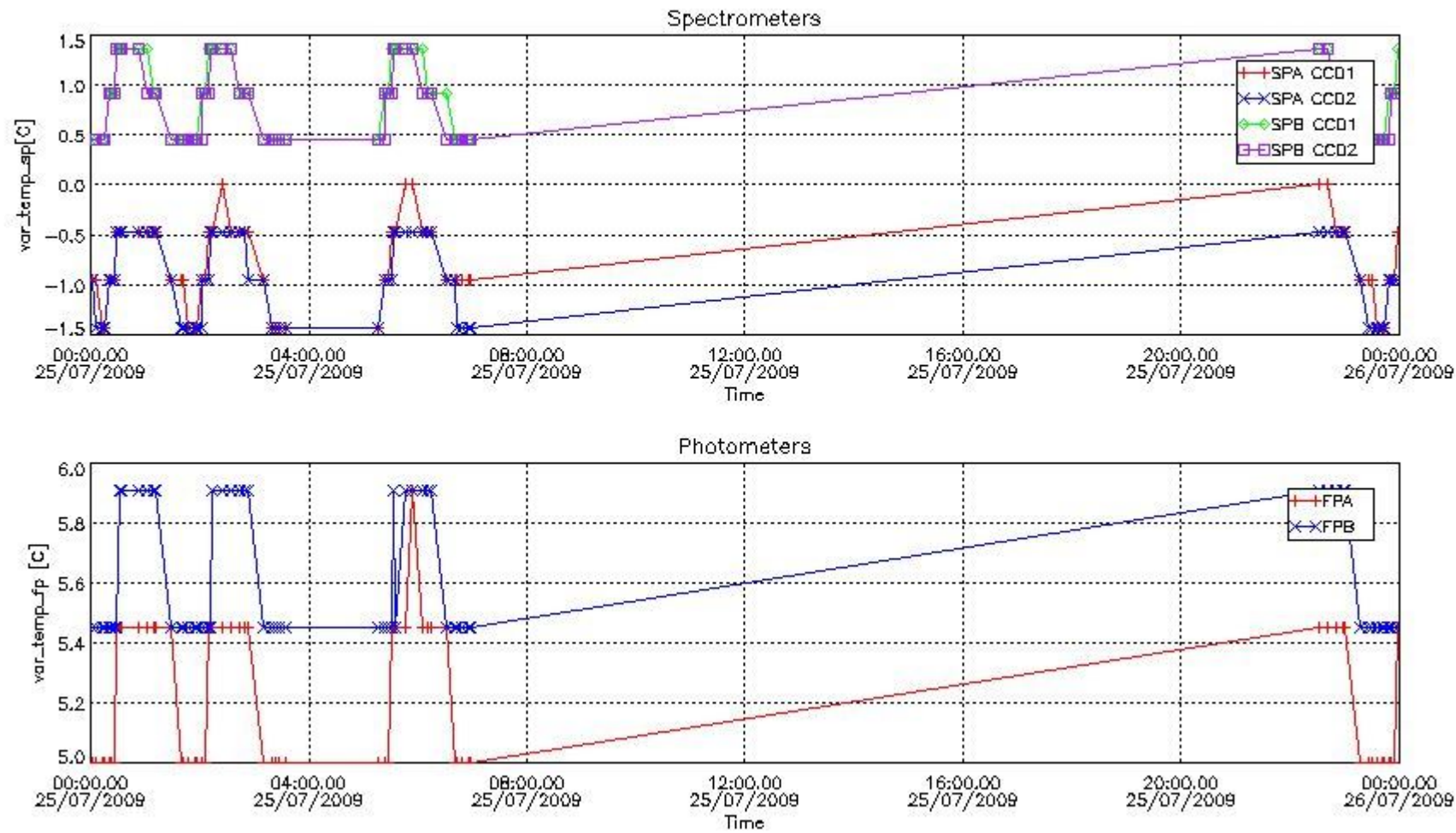
UTC start time	Star name	Star ID	Orbit
25-JUL-2009 13:39:58	27GamCas	76	38698

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_1PNPDE20090725_000115_000000652081_00059_38690_1988.N1	25-JUL-2009 00:01:15	Bright	65.000	19	50Alp Cyg	1.2460	10500.	130	38690	No
2	GOM_TRA_1PNPDE20090725_000631_000000432081_00059_38690_1989.N1	25-JUL-2009 00:06:31	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	38690	No
3	GOM_TRA_1PNPDE20090725_001332_000000522081_00059_38690_1990.N1	25-JUL-2009 00:13:32	Bright	52.000	74	11Bet Cas	2.2680	6600.0	104	38690	No
4	GOM_TRA_1PNPDE20090725_001516_000000472081_00059_38690_1991.N1	25-JUL-2009 00:15:16	Bright	47.000	76	27Gam Cas	2.3000	30000.	94	38690	No
5	GOM_TRA_1PNPDE20090725_002104_000000472081_00059_38690_1992.N1	25-JUL-2009 00:21:04	Bright	46.500	160	23Gam Per	2.9300	4700.0	93	38690	No
6	GOM_TRA_1PNPDE20090725_002235_000000472081_00059_38690_1993.N1	25-JUL-2009 00:22:35	Bright	46.500	35	33Alp Per	1.7950	6250.0	93	38690	No
7	GOM_TRA_1PNPDE20090725_002542_000000512081_00059_38690_1994.N1	25-JUL-2009 00:25:42	Bright	51.000	79	26Bet Per	2.3100	13100.	102	38690	No
8	GOM_TRA_1PNPDE20090725_002900_000000482081_00059_38690_1995.N1	25-JUL-2009 00:29:00	Twilight_stray	47.500	150	44Zet Per	2.8900	28000.	95	38690	No
9	GOM_TRA_1PNPDE20090725_003152_000000492081_00059_38690_1996.N1	25-JUL-2009 00:31:52	Dark	49.000	146	25Eta Tau	2.8730	15200.	98	38690	No
10	GOM_TRA_1PNPDE20090725_003327_000000452081_00059_38690_1997.N1	25-JUL-2009 00:33:27	Dark	44.500	13	87Alp Tau	0.86700	3800.0	89	38690	No

11	GOM_TRA_1PNPDE20090725_005255_000000432081_00059_38690_1969.N1	25-JUL-2009 00:52:55	Dark	42.500	157	The1Eri	2.9060	9300.0	85	38690	No
12	GOM_TRA_1PNPDE20090725_010252_000000542081_00060_38691_1970.N1	25-JUL-2009 01:02:52	Straylight	53.500	84	Alp Phe	2.3970	4500.0	107	38691	No
13	GOM_TRA_1PNPDE20090725_010912_000000482081_00060_38691_1971.N1	25-JUL-2009 01:09:12	Straylight	47.500	31	Alp Gru	1.7340	15200.	95	38691	No
14	GOM_TRA_1PNPDE20090725_011224_000000472081_00060_38691_1972.N1	25-JUL-2009 01:12:24	Straylight	47.000	172	Gam Gru	3.0030	13100.	94	38691	No
15	GOM_TRA_1PNPDE20090725_012920_000000402081_00060_38691_1973.N1	25-JUL-2009 01:29:20	Bright	40.000	11	53Alp Aql	0.76500	8000.0	80	38691	No
16	GOM_TRA_1PNPDE20090725_013852_000000502081_00060_38691_1974.N1	25-JUL-2009 01:38:52	Bright	49.500	92	53Eps Cyg	2.5000	4500.0	99	38691	No
17	GOM_TRA_1PNPDE20090725_014150_000000462081_00060_38691_1975.N1	25-JUL-2009 01:41:50	Bright	46.000	19	50Alp Cyg	1.2460	10500.	92	38691	No
18	GOM_TRA_1PNPDE20090725_014706_000000432081_00060_38691_1976.N1	25-JUL-2009 01:47:06	Bright	43.000	89	5Alp Cep	2.4510	8000.0	86	38691	No
19	GOM_TRA_1PNPDE20090725_015407_000000542081_00060_38691_1977.N1	25-JUL-2009 01:54:07	Bright	53.500	74	11Bet Cas	2.2680	6600.0	107	38691	No
20	GOM_TRA_1PNPDE20090725_015551_000000482081_00060_38691_1978.N1	25-JUL-2009 01:55:51	Bright	47.500	76	27Gam Cas	2.3000	30000.	95	38691	No
21	GOM_TRA_1PNPDE20090725_020140_000000652081_00060_38691_1979.N1	25-JUL-2009 02:01:40	Bright	65.000	160	23Gam Per	2.9300	4700.0	130	38691	No
22	GOM_TRA_1PNPDE20090725_020311_000000472081_00060_38691_1980.N1	25-JUL-2009 02:03:11	Bright	47.000	35	33Alp Per	1.7950	6250.0	94	38691	No
23	GOM_TRA_1PNPDE20090725_020618_000000522081_00060_38691_1981.N1	25-JUL-2009 02:06:18	Bright	52.000	79	26Bet Per	2.3100	13100.	104	38691	No
24	GOM_TRA_1PNPDE20090725_020937_000000492081_00060_38691_1982.N1	25-JUL-2009 02:09:37	Tw_i_and_stray	49.000	150	44Zet Per	2.8900	28000.	98	38691	No
25	GOM_TRA_1PNPDE20090725_021228_000000502081_00060_38691_1983.N1	25-JUL-2009 02:12:28	Dark	49.500	146	25Eta Tau	2.8730	15200.	99	38691	No
26	GOM_TRA_1PNPDE20090725_021404_000000482081_00060_38691_1984.N1	25-JUL-2009 02:14:04	Dark	48.000	13	87Alp Tau	0.86700	3800.0	96	38691	No
27	GOM_TRA_1PNPDE20090725_022414_000000502081_00060_38691_1952.N1	25-JUL-2009 02:24:14	Dark	50.000	165	34Gam Eri	2.9500	3200.0	100	38691	No
28	GOM_TRA_1PNPDE20090725_023332_000000432081_00060_38691_1953.N1	25-JUL-2009 02:33:32	Dark	43.000	157	The1Eri	2.9060	9300.0	86	38691	No
29	GOM_TRA_1PNPDE20090725_024329_000000542081_00061_38692_1954.N1	25-JUL-2009 02:43:29	Straylight	54.000	84	Alp Phe	2.3970	4500.0	108	38692	No
30	GOM_TRA_1PNPDE20090725_024949_000000472081_00061_38692_1955.N1	25-JUL-2009 02:49:49	Straylight	46.500	31	Alp Gru	1.7340	15200.	93	38692	No
31	GOM_TRA_1PNPDE20090725_025301_000000482081_00061_38692_1956.N1	25-JUL-2009 02:53:01	Straylight	47.500	172	Gam Gru	3.0030	13100.	95	38692	No
32	GOM_TRA_1PNPDE20090725_030956_000000432081_00061_38692_1957.N1	25-JUL-2009 03:09:56	Bright	42.500	11	53Alp Aql	0.76500	8000.0	85	38692	No
33	GOM_TRA_1PNPDE20090725_031927_000000482081_00061_38692_1958.N1	25-JUL-2009 03:19:27	Bright	47.500	92	53Eps Cyg	2.5000	4500.0	95	38692	No
34	GOM_TRA_1PNPDE20090725_032225_000000432081_00061_38692_1959.N1	25-JUL-2009 03:22:25	Bright	42.500	19	50Alp Cyg	1.2460	10500.	85	38692	No
35	GOM_TRA_1PNPDE20090725_032742_000000382081_00061_38692_1960.N1	25-JUL-2009 03:27:42	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	38692	No
36	GOM_TRA_1PNPDE20090725_033442_000000342081_00061_38692_1961.N1	25-JUL-2009 03:34:42	Tw_i_and_stray	33.500	74	11Bet Cas	2.2680	6600.0	67	38692	No
37	GOM_TRA_1PNPDE20090725_051702_000000482081_00062_38693_4971.N1	25-JUL-2009 05:17:02	Bright	47.500	76	27Gam Cas	2.3000	30000.	95	38693	No
38	GOM_TRA_1PNPDE20090725_052251_000000652081_00062_38693_4972.N1	25-JUL-2009 05:22:51	Bright	65.000	160	23Gam Per	2.9300	4700.0	130	38693	No
39	GOM_TRA_1PNPDE20090725_052422_000000482081_00062_38693_4973.N1	25-JUL-2009 05:24:22	Bright	47.500	35	33Alp Per	1.7950	6250.0	95	38693	No
40	GOM_TRA_1PNPDE20090725_052729_000000522081_00062_38693_4974.N1	25-JUL-2009 05:27:29	Bright	51.500	79	26Bet Per	2.3100	13100.	103	38693	No
41	GOM_TRA_1PNPDE20090725_053049_000000512081_00062_38693_4975.N1	25-JUL-2009 05:30:49	Tw_i_and_stray	50.500	150	44Zet Per	2.8900	28000.	101	38693	No
42	GOM_TRA_1PNPDE20090725_053341_000000522081_00062_38693_4976.N1	25-JUL-2009 05:33:41	Dark	51.500	146	25Eta Tau	2.8730	15200.	103	38693	No
43	GOM_TRA_1PNPDE20090725_053516_000000552081_00062_38693_4977.N1	25-JUL-2009 05:35:16	Dark	54.500	13	87Alp Tau	0.86700	3800.0	109	38693	No
44	GOM_TRA_1PNPDE20090725_054527_000000492081_00062_38693_4978.N1	25-JUL-2009 05:45:27	Dark	49.000	165	34Gam Eri	2.9500	3200.0	98	38693	No
45	GOM_TRA_1PNPDE20090725_055445_000000442081_00062_38693_4979.N1	25-JUL-2009 05:54:45	Dark	44.000	157	The1Eri	2.9060	9300.0	88	38693	No
46	GOM_TRA_1PNPDE20090725_060443_000000532081_00063_38694_4980.N1	25-JUL-2009 06:04:43	Straylight	53.000	84	Alp Phe	2.3970	4500.0	106	38694	No
47	GOM_TRA_1PNPDE20090725_061102_000000452081_00063_38694_4981.N1	25-JUL-2009 06:11:02	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	38694	No
48	GOM_TRA_1PNPDE20090725_061414_000000472081_00063_38694_4982.N1	25-JUL-2009 06:14:14	Straylight	47.000	172	Gam Gru	3.0030	13100.	94	38694	No
49	GOM_TRA_1PNPDE20090725_063108_000000432081_00063_38694_4983.N1	25-JUL-2009 06:31:08	Bright	43.000	11	53Alp Aql	0.76500	8000.0	86	38694	No
50	GOM_TRA_1PNPDE20090725_064037_000000492081_00063_38694_4984.N1	25-JUL-2009 06:40:37	Bright	48.500	92	53Eps Cyg	2.5000	4500.0	97	38694	No
51	GOM_TRA_1PNPDE20090725_064336_000000452081_00063_38694_4985.N1	25-JUL-2009 06:43:36	Bright	45.000	19	50Alp Cyg	1.2460	10500.	90	38694	No
52	GOM_TRA_1PNPDE20090725_064853_000000392081_00063_38694_4986.N1	25-JUL-2009 06:48:53	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	38694	No
53	GOM_TRA_1PNPDE20090725_065553_000000502081_00063_38694_4987.N1	25-JUL-2009 06:55:53	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	38694	No
54	GOM_TRA_1PNPDE20090725_065737_000000072081_00063_38694_4988.N1	25-JUL-2009 06:57:37	Straylight	6.5000	76	27Gam Cas	2.3000	30000.	13	38694	No
55	GOM_TRA_1PNPDE20090725_223134_000000542081_00072_38703_4995.N1	25-JUL-2009 22:31:34	Dark	54.000	165	34Gam Eri	2.9500	3200.0	108	38703	No
56	GOM_TRA_1PNPDE20090725_224053_000000462081_00072_38703_4996.N1	25-JUL-2009 22:40:53	Dark	45.500	157	The1Eri	2.9060	9300.0	91	38703	No
57	GOM_TRA_1PNPDE20090725_225053_000000552081_00073_38704_4997.N1	25-JUL-2009 22:50:53	Straylight	54.500	84	Alp Phe	2.3970	4500.0	109	38704	No
58	GOM_TRA_1PNPDE20090725_225707_000000532081_00073_38704_4998.N1	25-JUL-2009 22:57:07	Straylight	53.000	31	Alp Gru	1.7340	15200.	106	38704	No
59	GOM_TRA_1PNPDE20090725_230019_000000472081_00073_38704_4999.N1	25-JUL-2009 23:00:19	Straylight	47.000	172	Gam Gru	3.0030	13100.	94	38704	No
60	GOM_TRA_1PNPDE20090725_231705_000000422081_00073_38704_5000.N1	25-JUL-2009 23:17:05	Bright	41.500	11	53Alp Aql	0.76500	8000.0	83	38704	No
61	GOM_TRA_1PNPDE20090725_232629_000000472081_00073_38704_5001.N1	25-JUL-2009 23:26:29	Bright	46.500	92	53Eps Cyg	2.5000	4500.0	93	38704	No
62	GOM_TRA_1PNPDE20090725_232929_000000642081_00073_38704_5002.N1	25-JUL-2009 23:29:29	Bright	64.000	19	50Alp Cyg	1.2460	10500.	128	38704	No
63	GOM_TRA_1PNPDE20090725_233447_000000382081_00073_38704_5003.N1	25-JUL-2009 23:34:47	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	38704	No
64	GOM_TRA_1PNPDE20090725_234144_000000742081_00073_38704_5004.N1	25-JUL-2009 23:41:44	Bright	73.500	74	11Bet Cas	2.2680	6600.0	147	38704	No
65	GOM_TRA_1PNPDE20090725_234330_000000492081_00073_38704_5005.N1	25-JUL-2009 23:43:30	Bright	48.500	76	27Gam Cas	2.3000	30000.	97	38704	No
66	GOM_TRA_1PNPDE20090725_234923_000000432081_00073_38704_5006.N1	25-JUL-2009 23:49:23	Bright	43.000	160	23Gam Per	2.9300	4700.0	86	38704	No
67	GOM_TRA_1PNPDE20090725_235055_000000472081_00073_38704_5007.N1	25-JUL-2009 23:50:55	Bright	47.000	35	33Alp Per	1.7950	6250.0	94	38704	No
68	GOM_TRA_1PNPDE20090725_235403_000000532081_00073_38704_5008.N1	25-JUL-2009 23:54:03	Bright	53.000	79	26Bet Per	2.3100	13100.	106	38704	No
69	GOM_TRA_1PNPDE20090725_235725_000000472081_00073_38704_5009.N1	25-JUL-2009 23:57:25	Tw_i_and_stray	46.500	150	44Zet Per	2.8900	28000.	93	38704	No

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



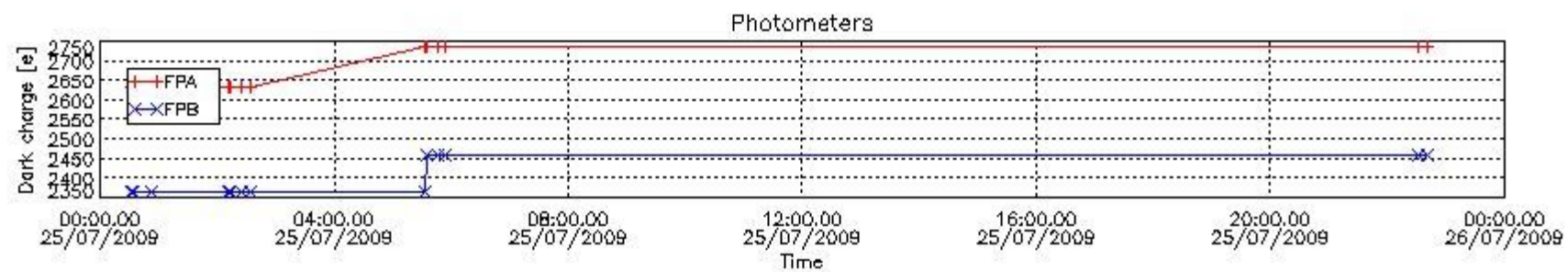
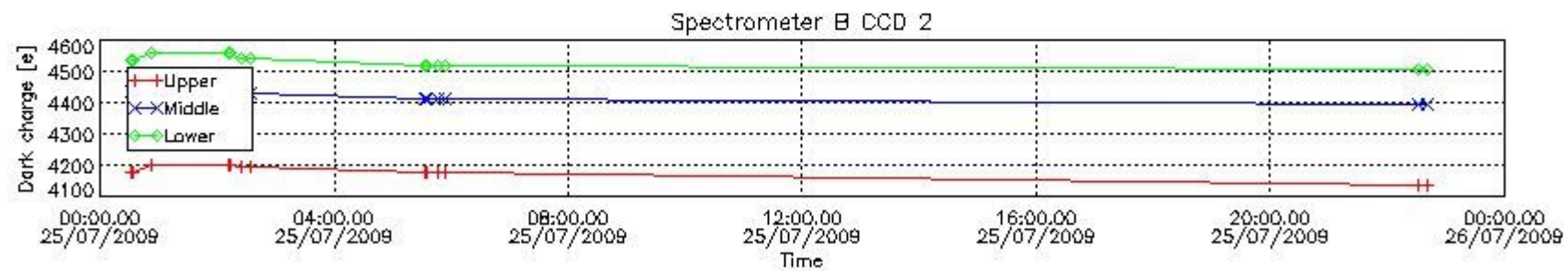
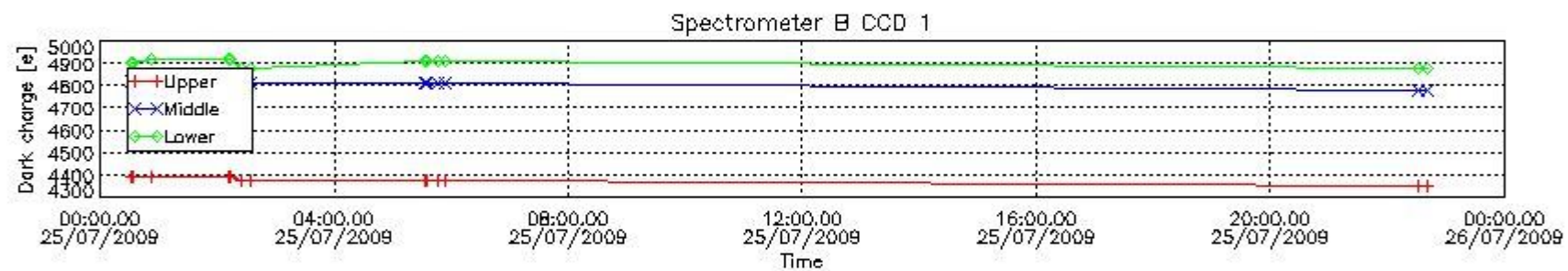
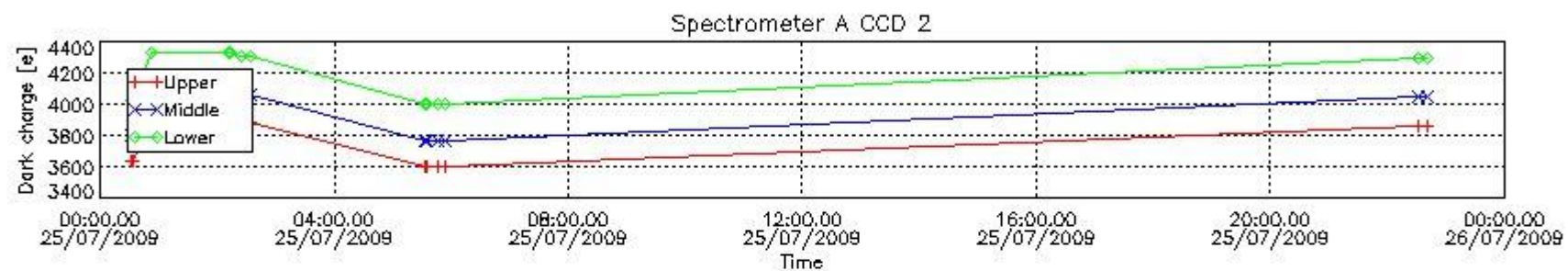
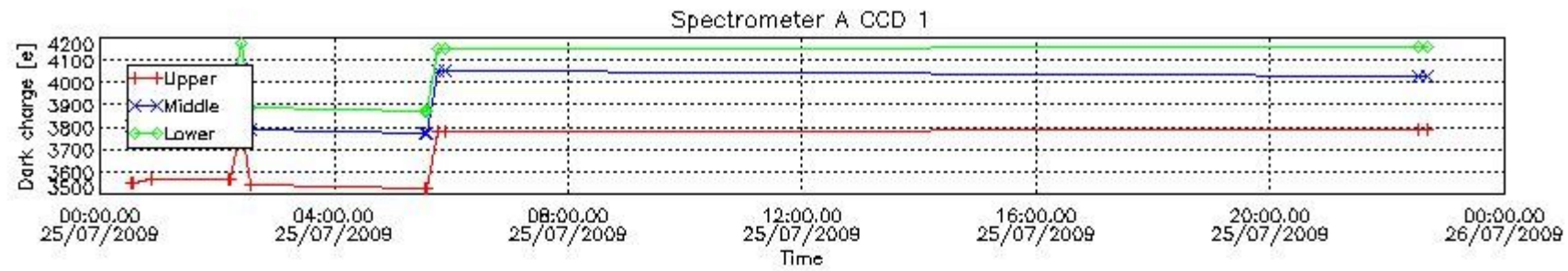
4. Overview of dark signal processing per product

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 All products used the DSA observation for the DC computation

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



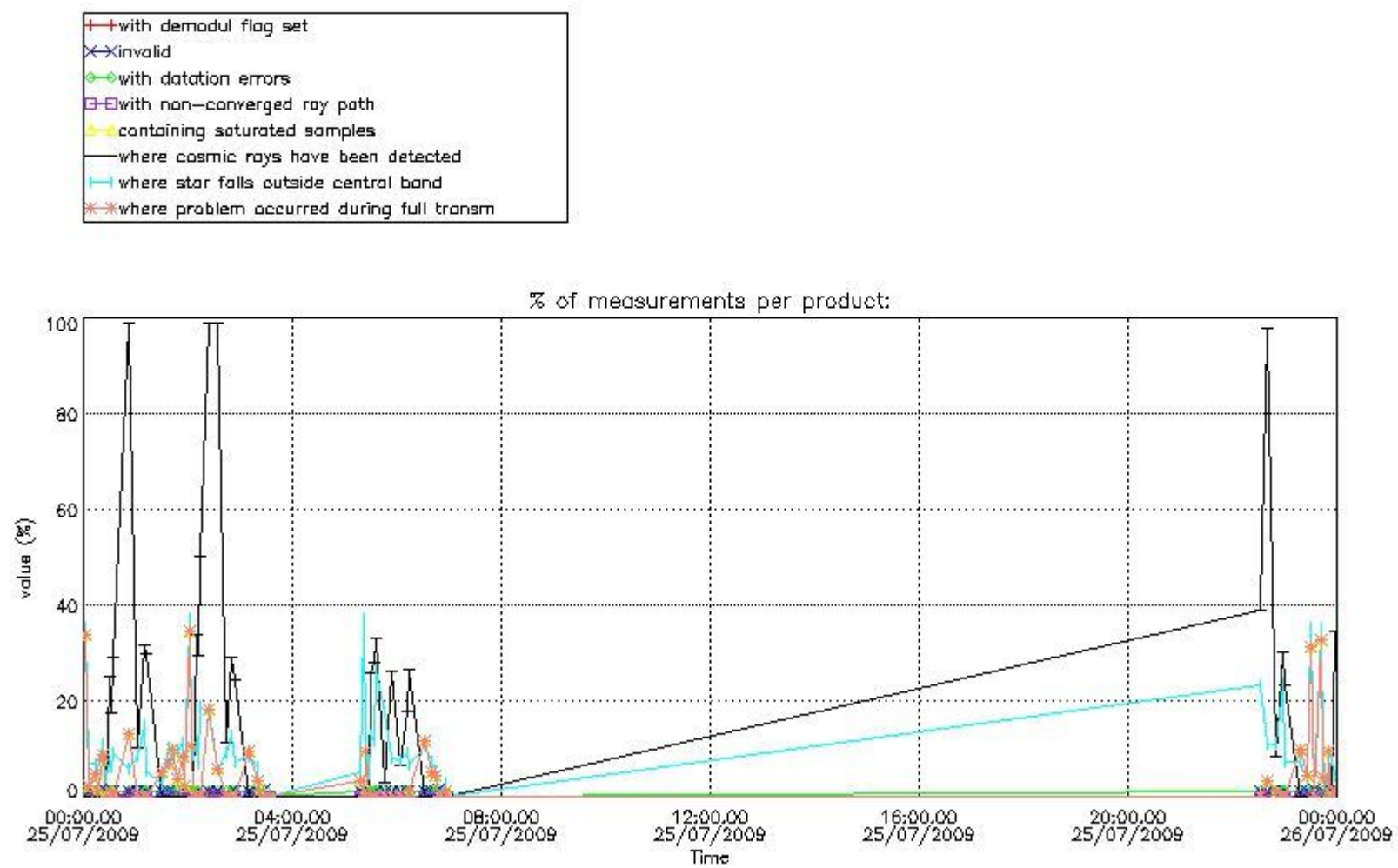
5. Demodulation flag and quality information monitoring

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.

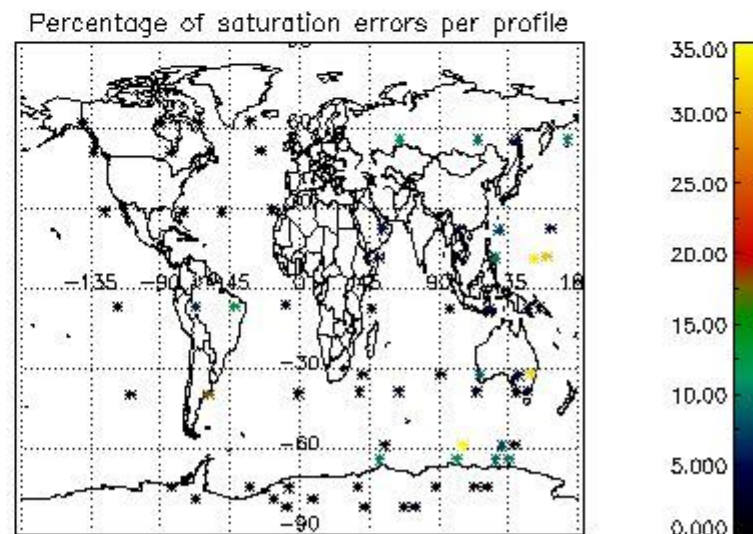
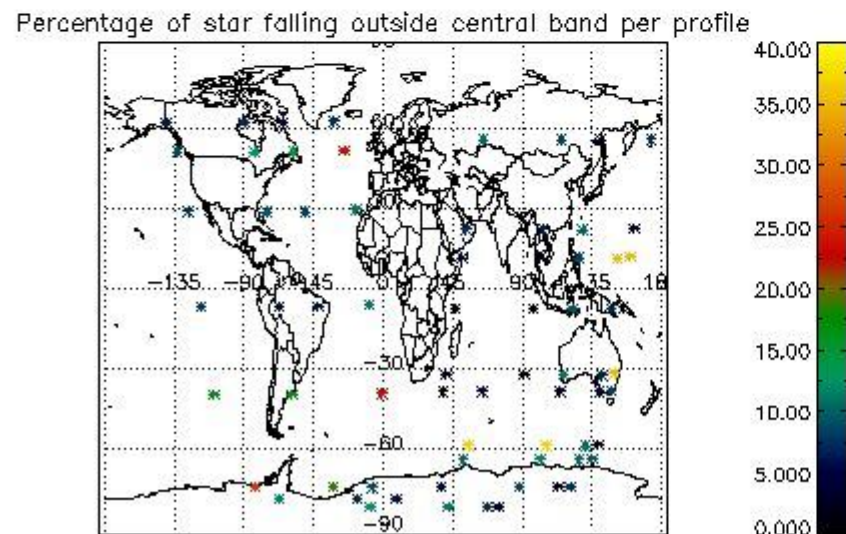
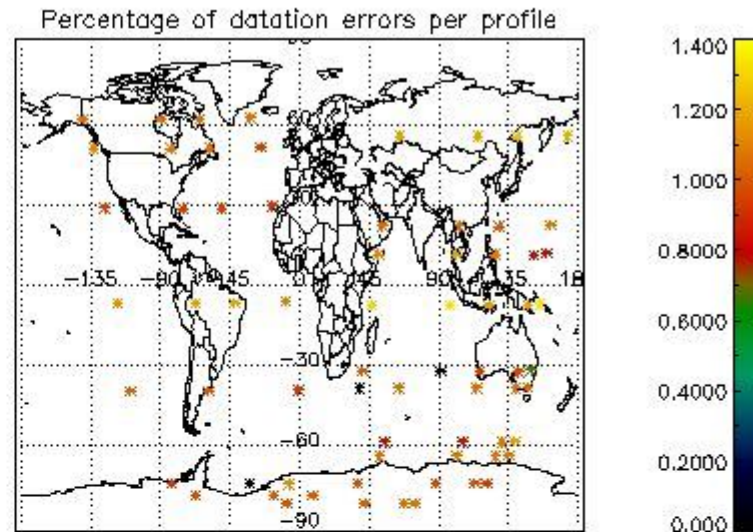
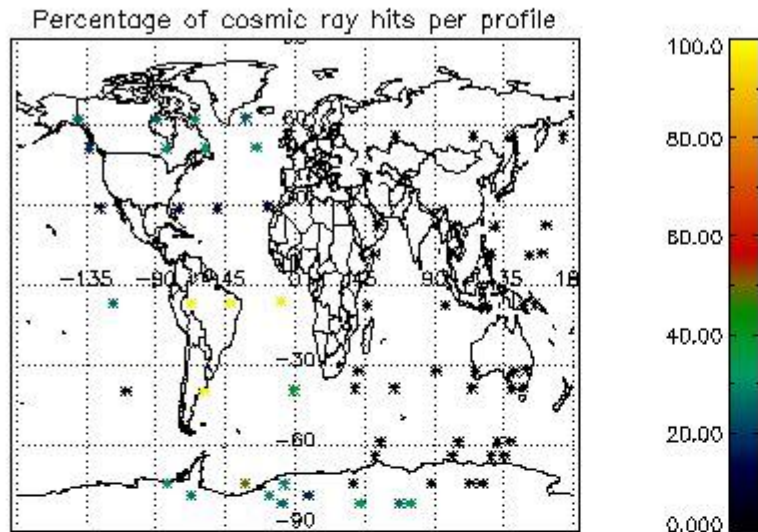
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	34.7826 %
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)



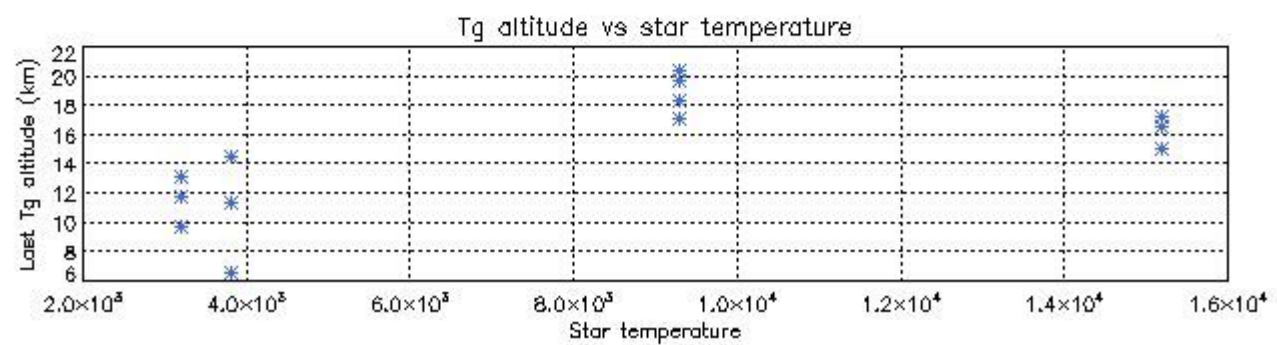
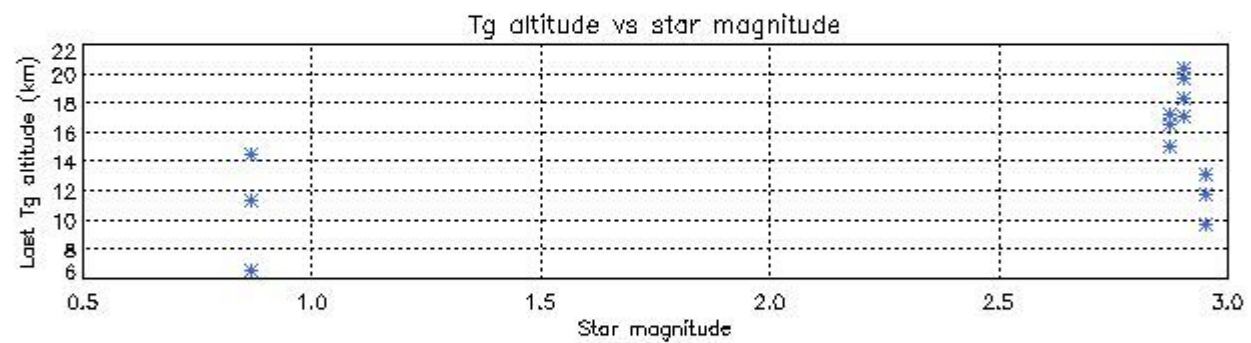
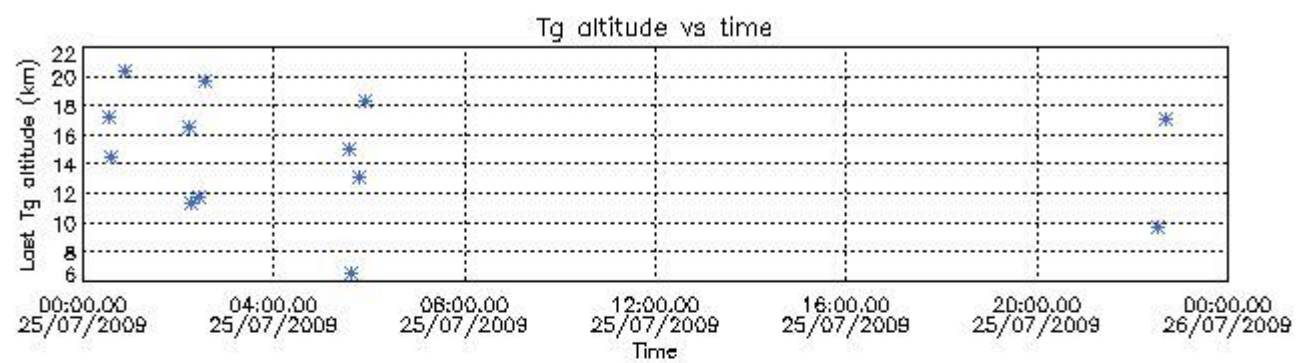
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.707	18.159	NaN
St. deviation:	4.0797	6.5287	NaN
Maximum:	20.397	29.094	NaN
Minimum:	6.4885	2.8929	NaN
Number of data:	13.000	38.000	NaN

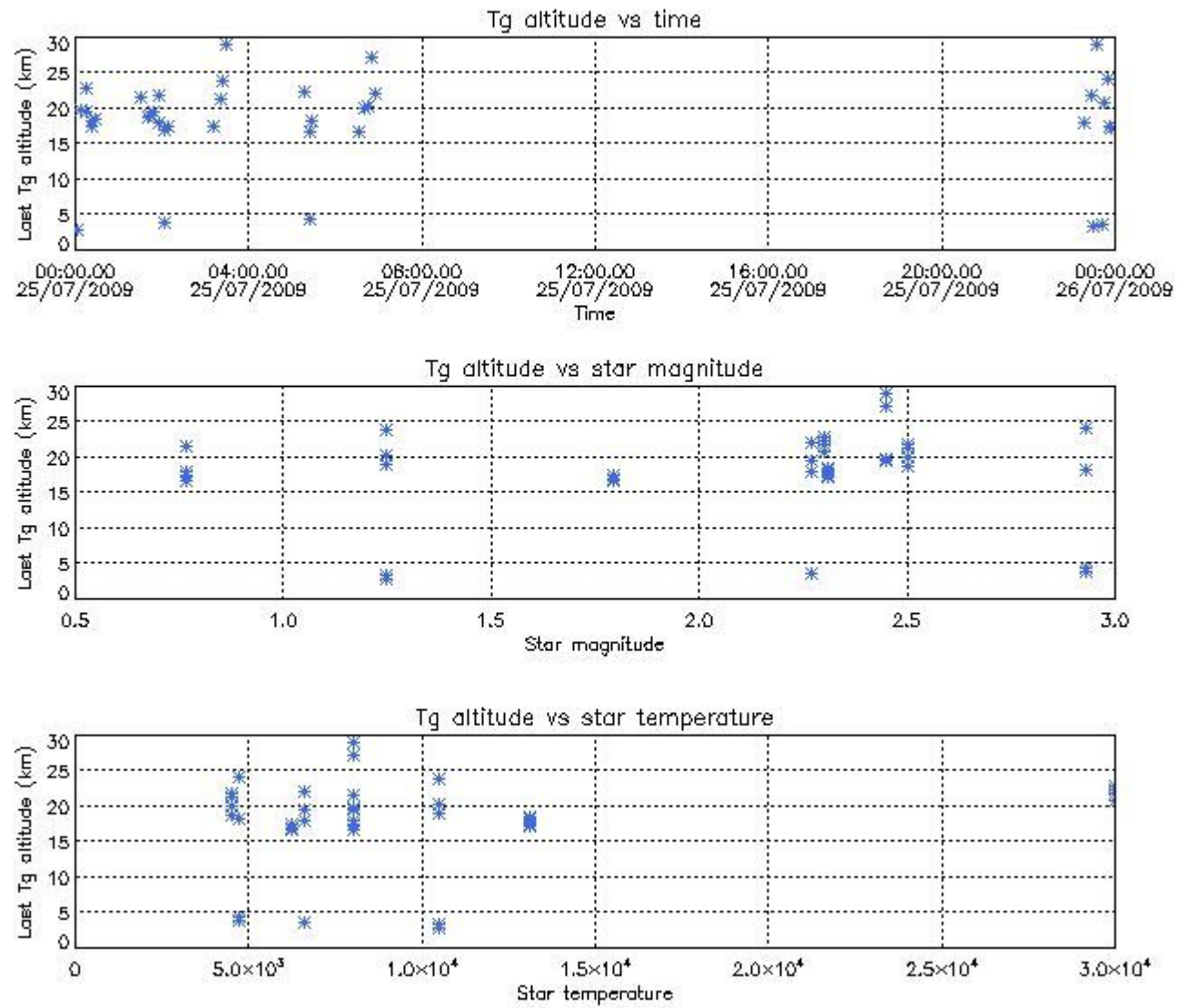
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

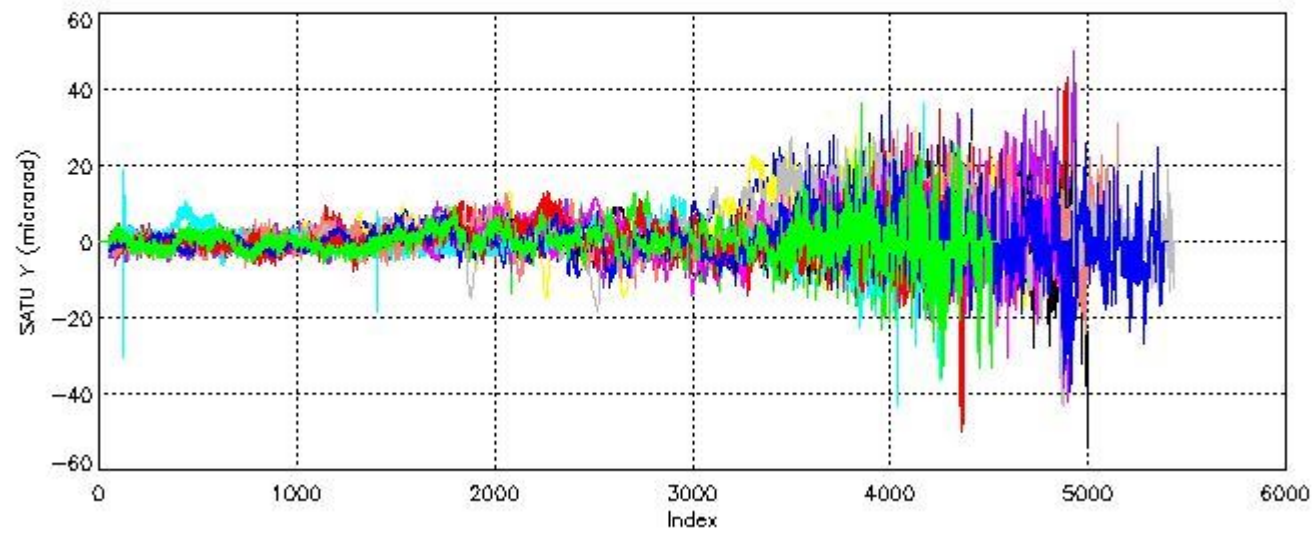
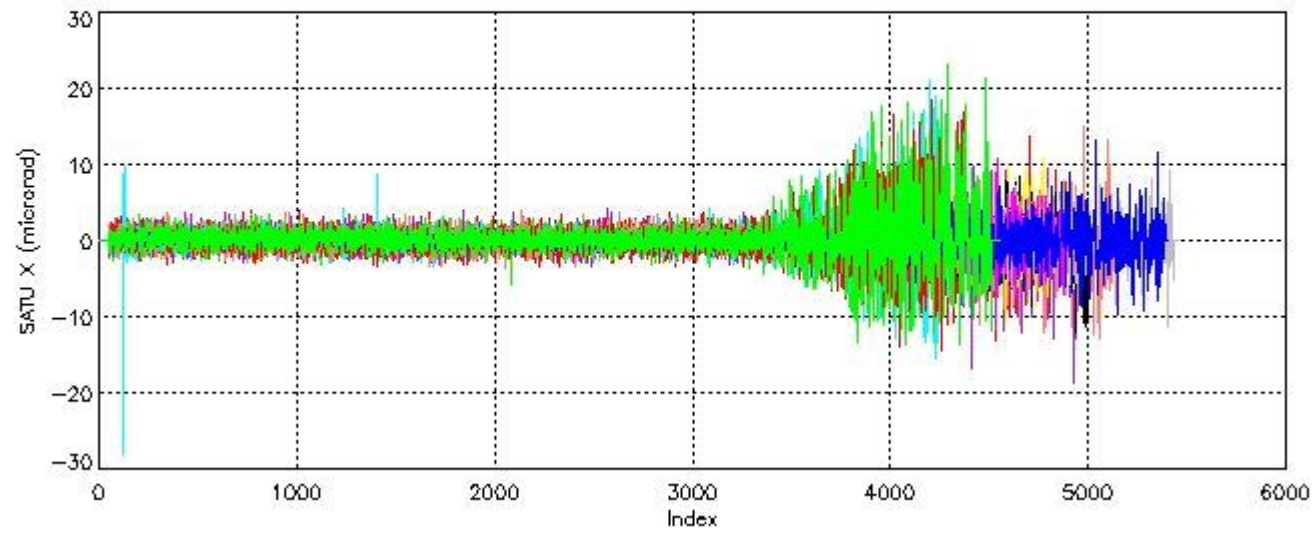


7. Star Acquisition and Tracking Unit (SATU)

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:	0.15984	-0.29316	0.25667	-0.43688
St. deviation:	0.68489	1.4318	0.64887	1.2691
Maximum:	9.7000	18.900	4.3000	6.3000
Minimum:	-28.100	-30.600	-4.8000	-7.3000

Number of data:	13350.	13350.	40500.	40500.
-----------------	--------	--------	--------	--------

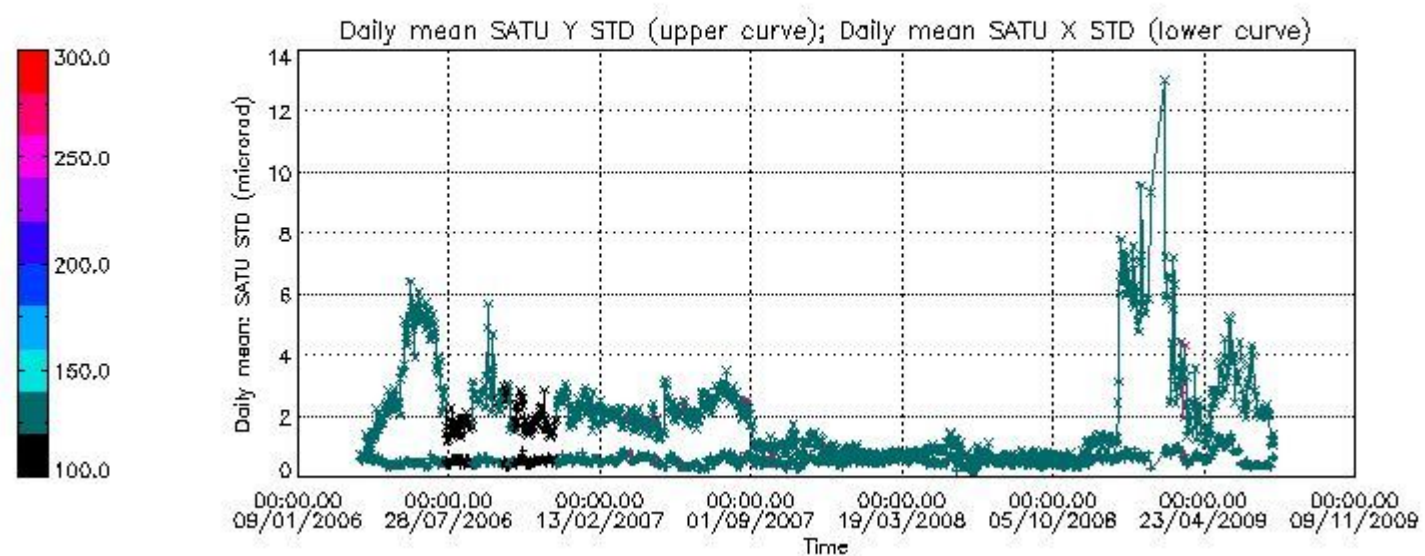
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

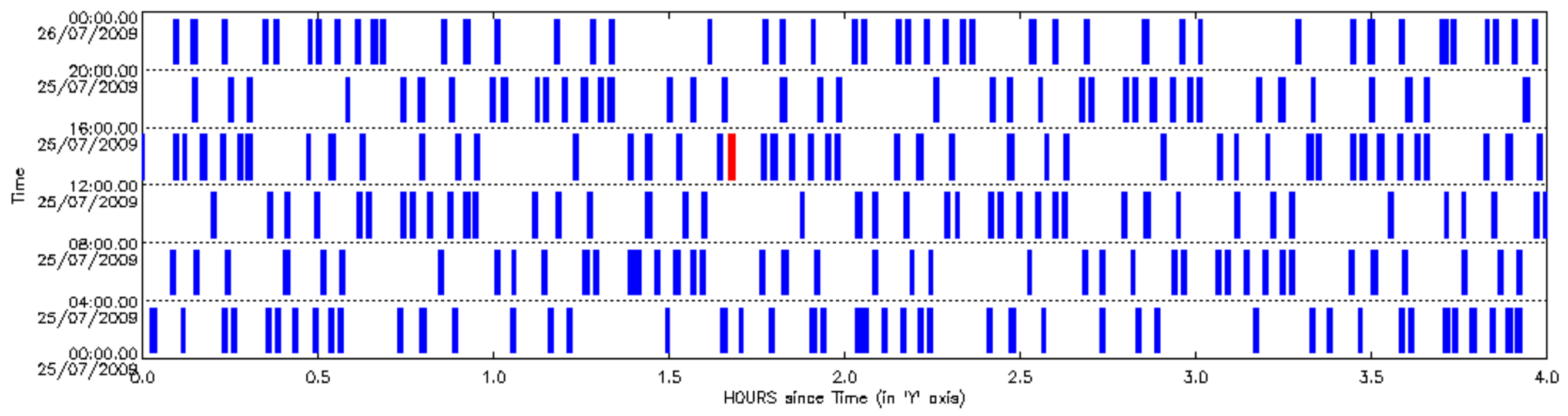
Lower curve: STD of SATU X axis

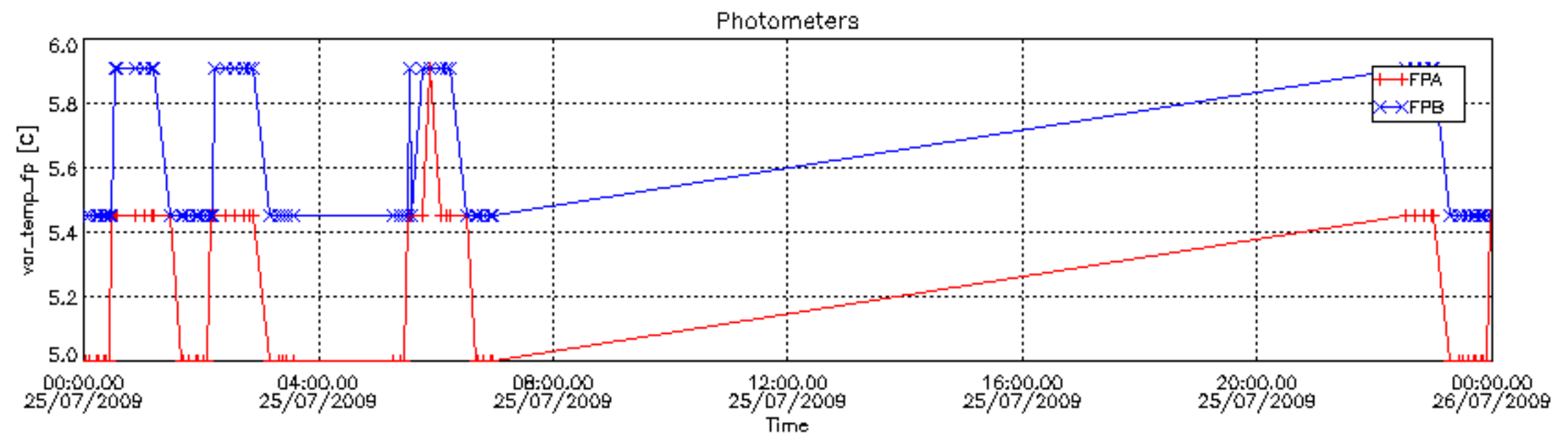
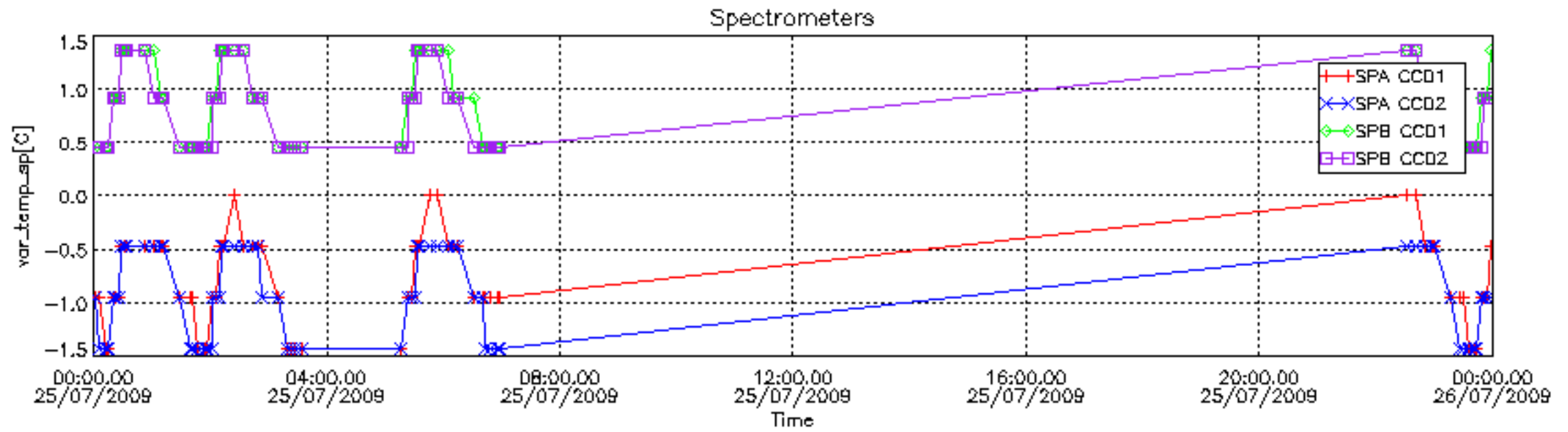


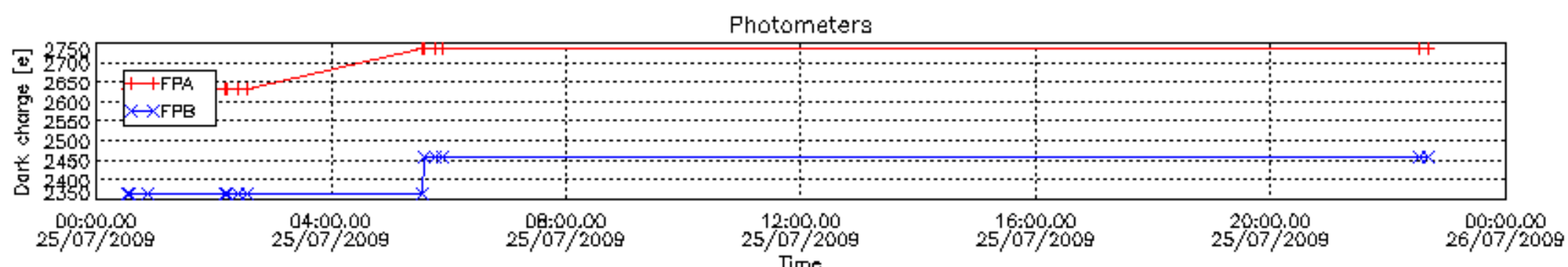
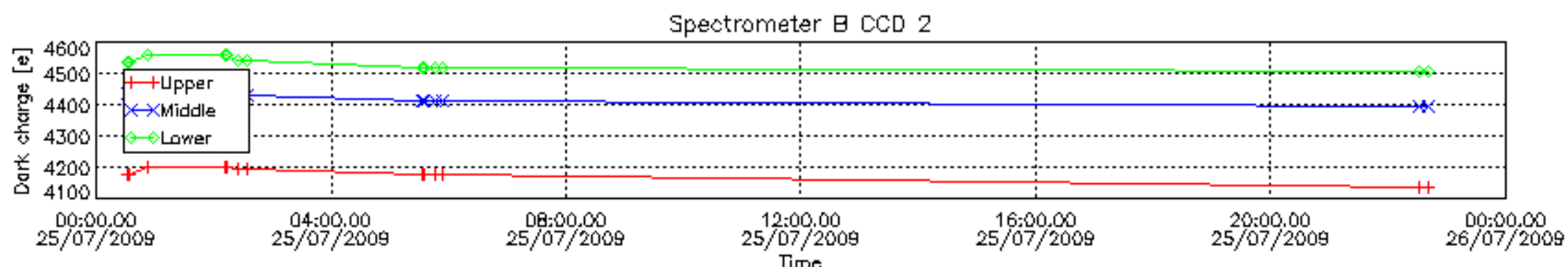
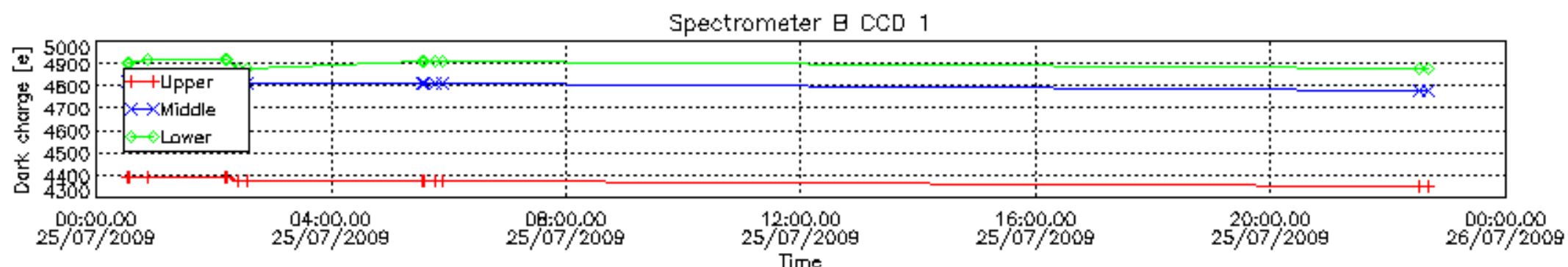
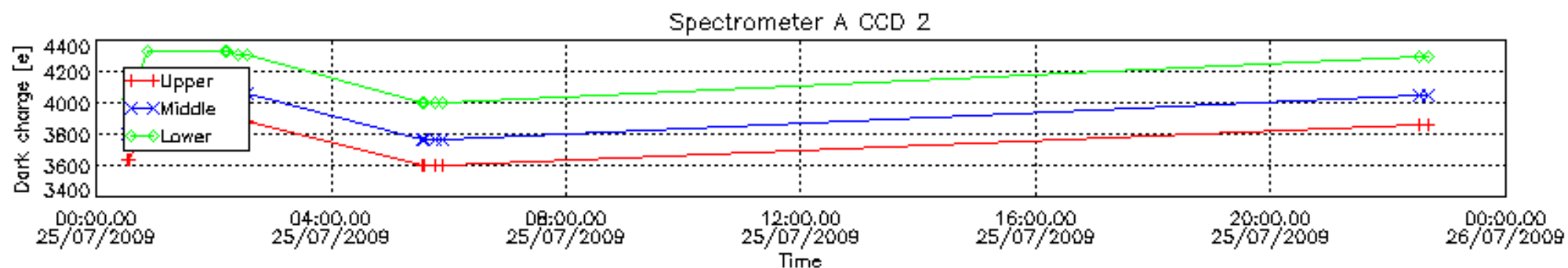
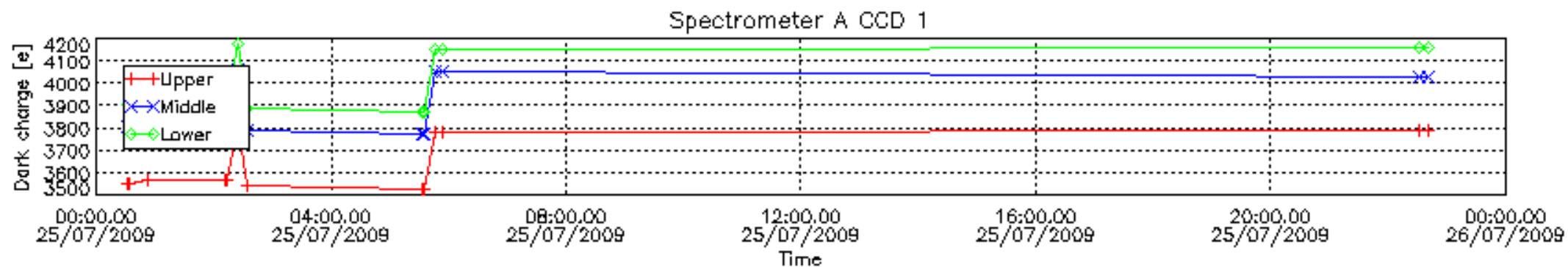
8. Auxiliary Data Files used for the production reported in section 2.4

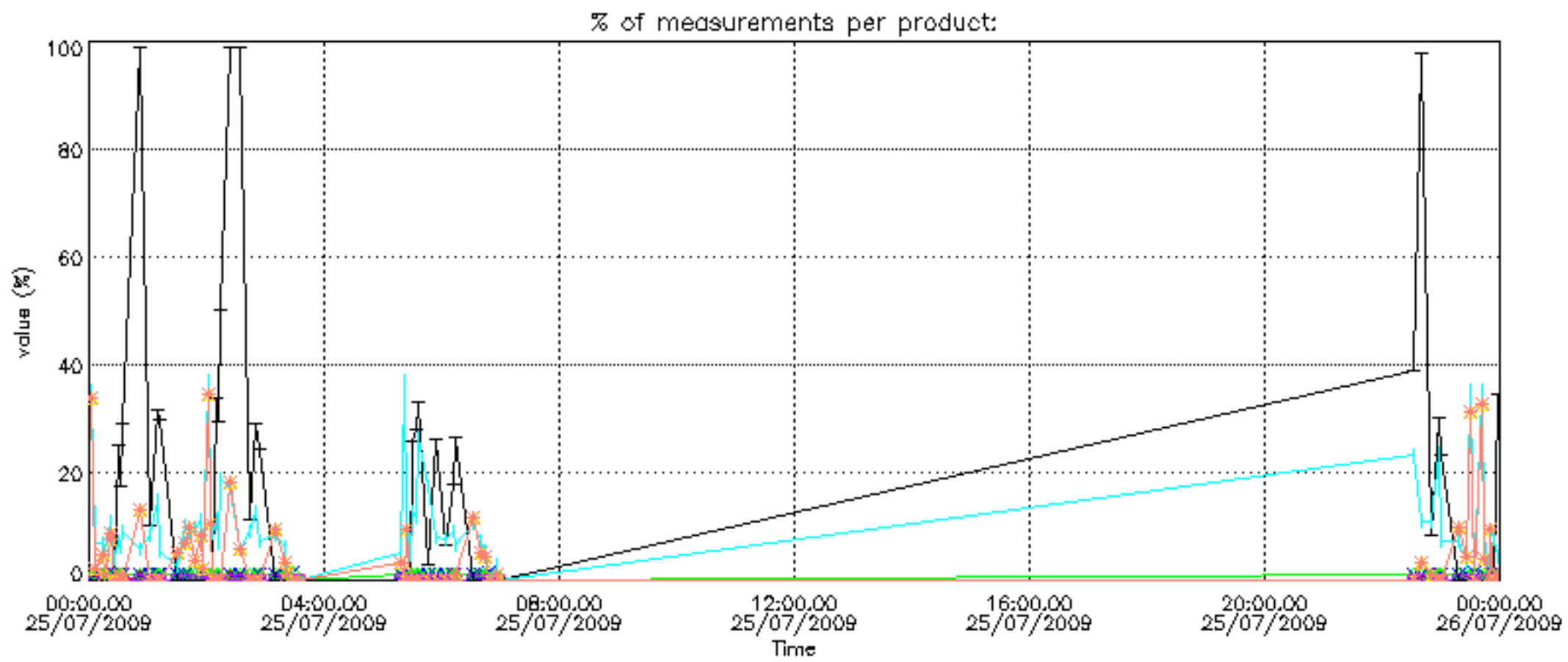
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090724_083809_20090721_000000_20100101_000000	1	25-JUL-2009 00:01:15
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	25-JUL-2009 00:01:15
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-JUL-2009 00:01:15
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	25-JUL-2009 00:01:15
ECMWF_FILE	AUX_ECF_AXNECM20090724_084447_20090724_210000_20090725_090000	1	25-JUL-2009 00:01:15
ECMWF_FILE	AUX_ECF_AXNECM20090725_100112_20090725_030000_20090725_150000	37	25-JUL-2009 05:17:02
ECMWF_FILE	AUX_ECF_AXNECM20090725_100114_20090725_210000_20090726_090000	55	25-JUL-2009 22:31:34
OPTIONAL_ECMWF_FILE	MISSING	1	25-JUL-2009 00:01:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090724_225822_000057382081_00058_38689_8417.N1	1	25-JUL-2009 00:01:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090725_003919_000054192081_00059_38690_8418.N1	11	25-JUL-2009 00:52:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090725_021457_000044632081_00060_38691_8419.N1	27	25-JUL-2009 02:24:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090725_051536_000057382081_00062_38693_8421.N1	37	25-JUL-2009 05:17:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090725_222621_000057382081_00072_38703_8424.N1	55	25-JUL-2009 22:31:34

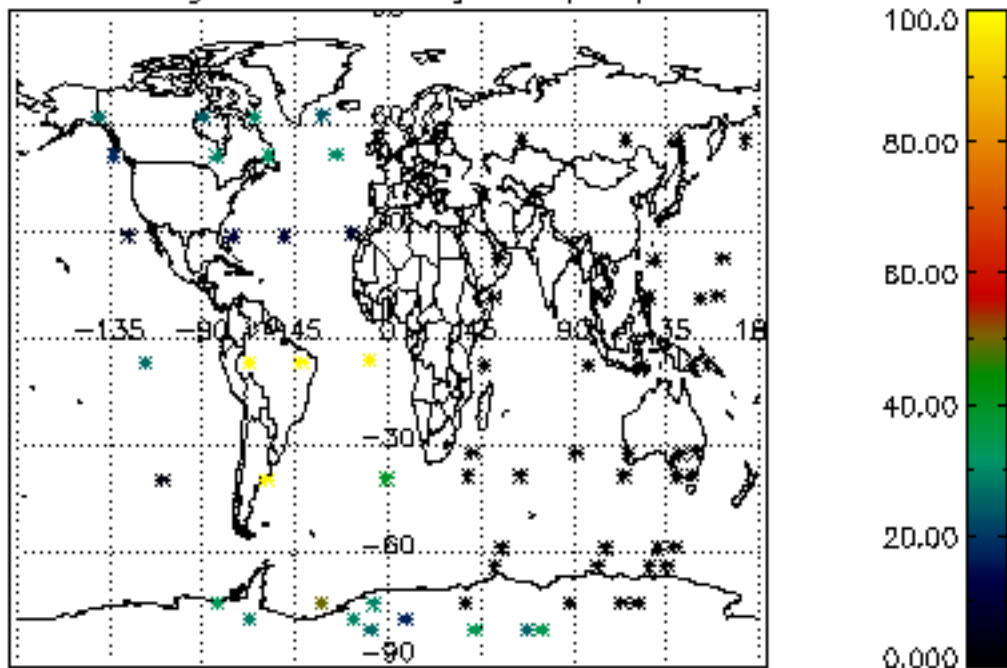




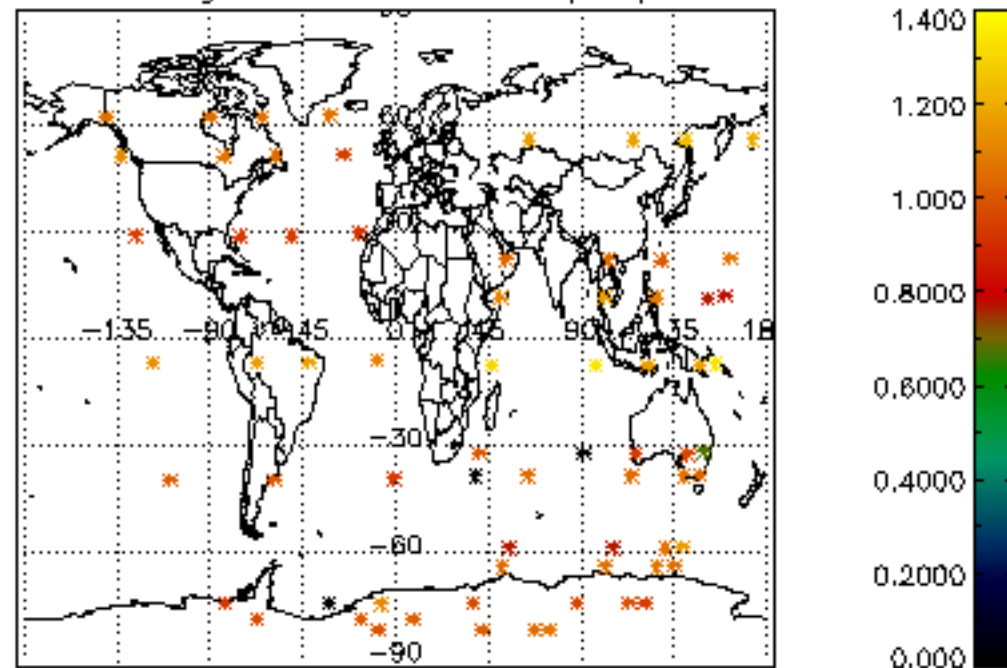




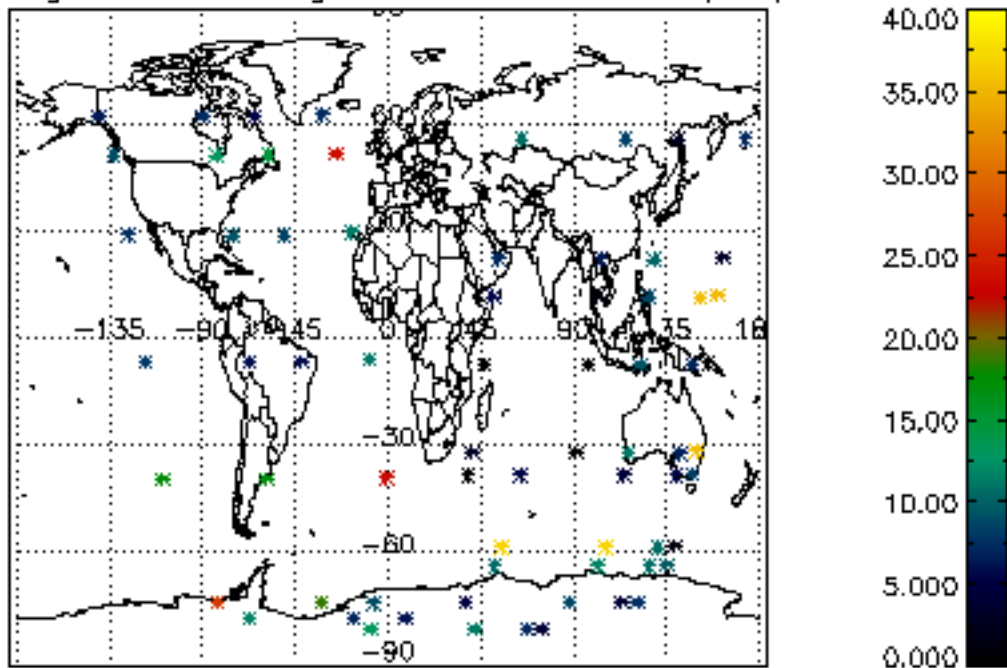
Percentage of cosmic ray hits per profile



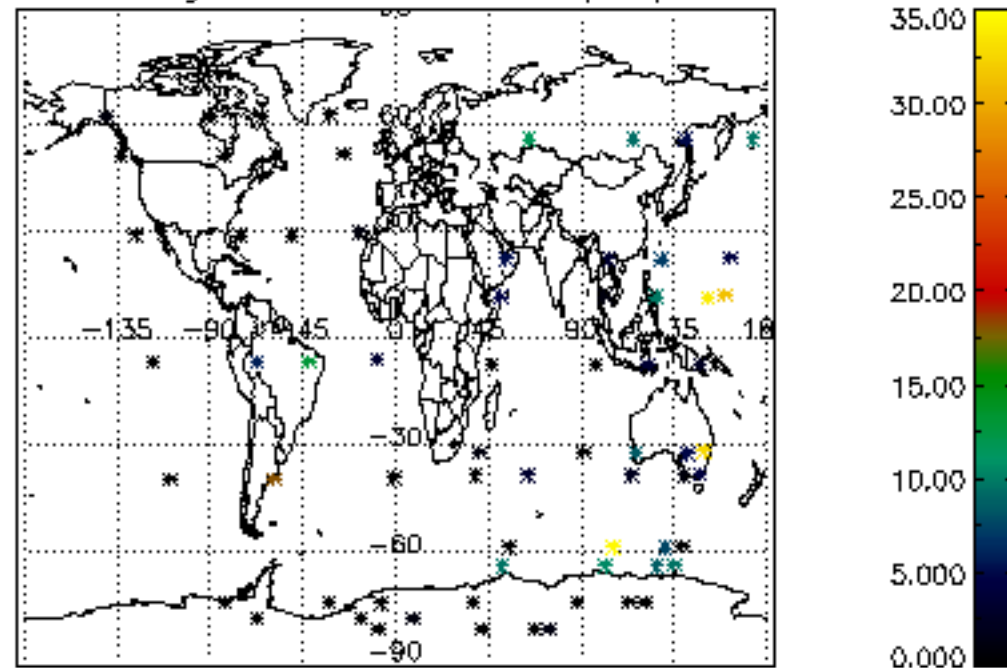
Percentage of datation errors per profile



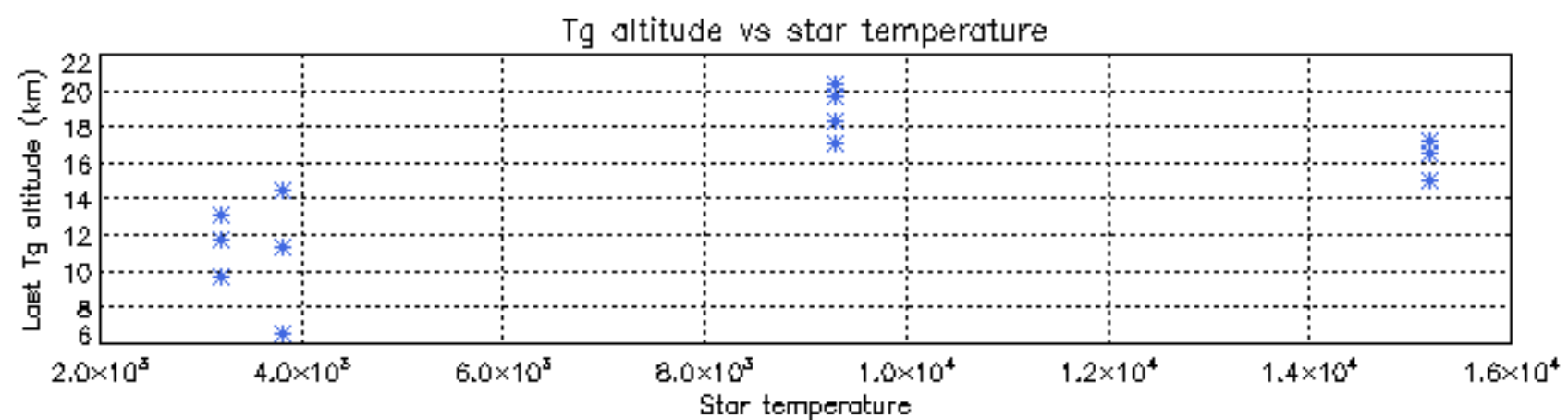
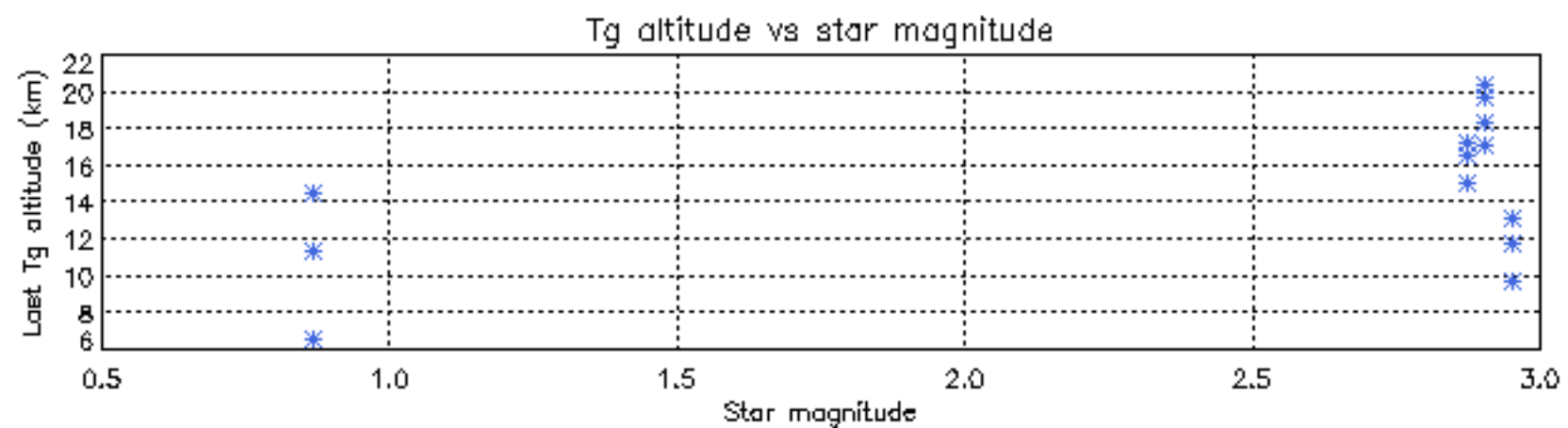
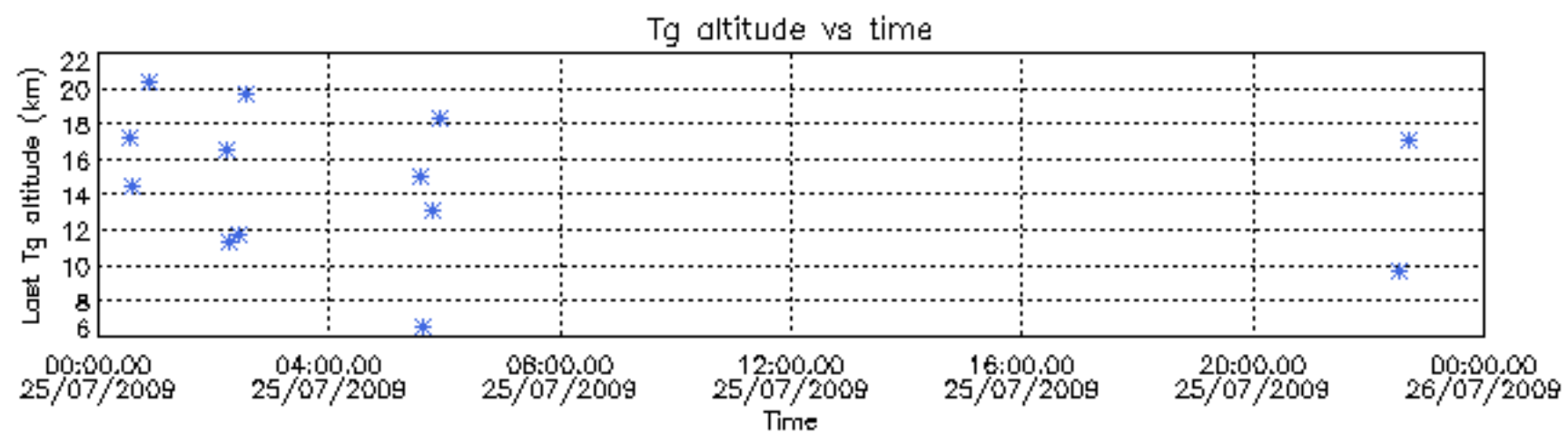
Percentage of star falling outside central band per profile



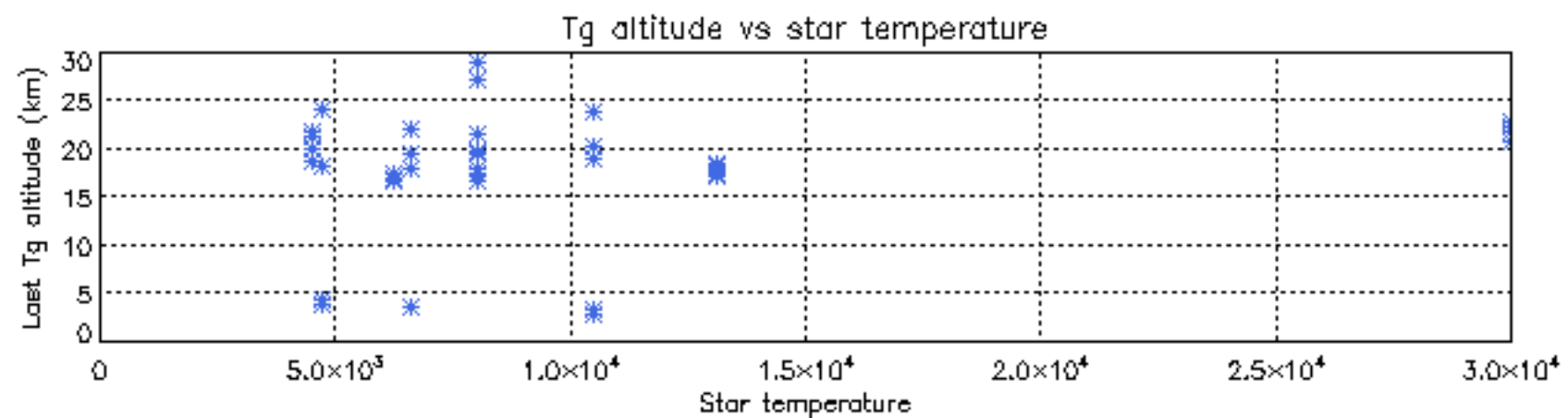
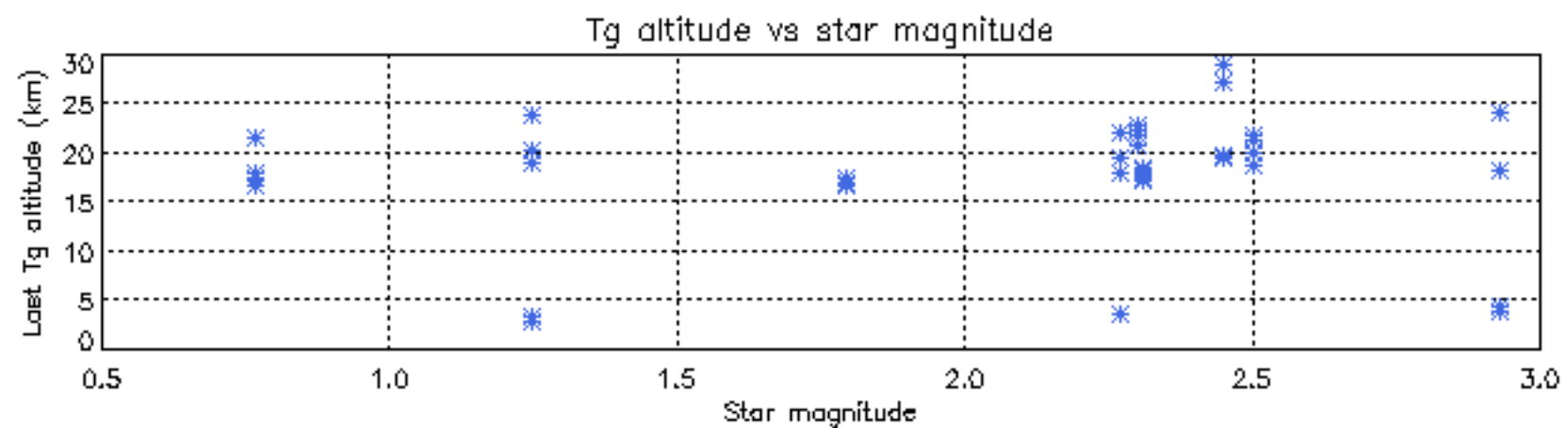
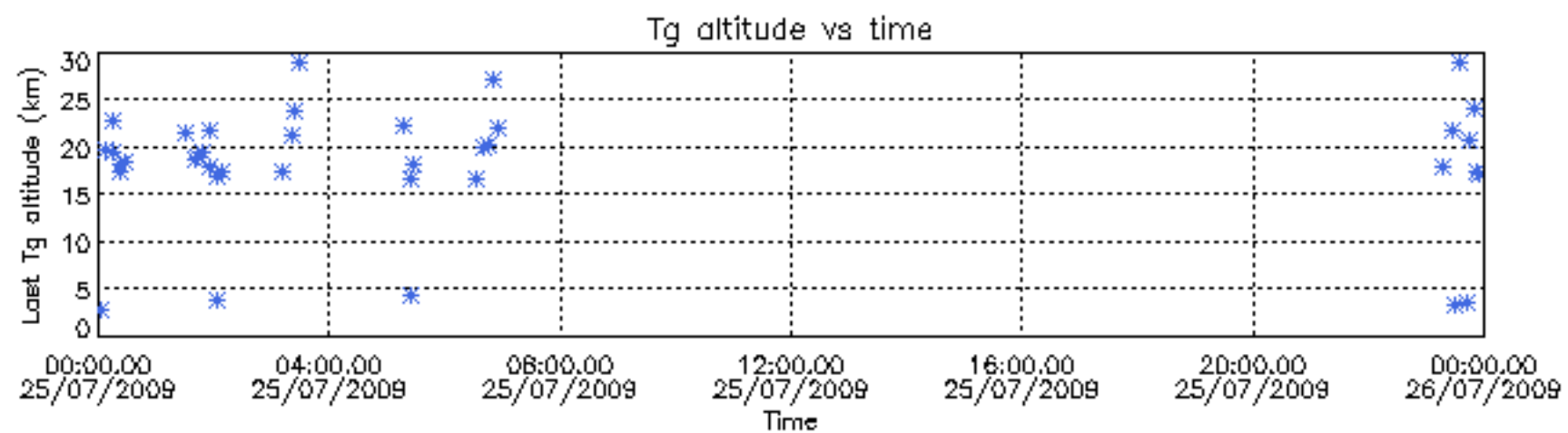
Percentage of saturation errors per profile

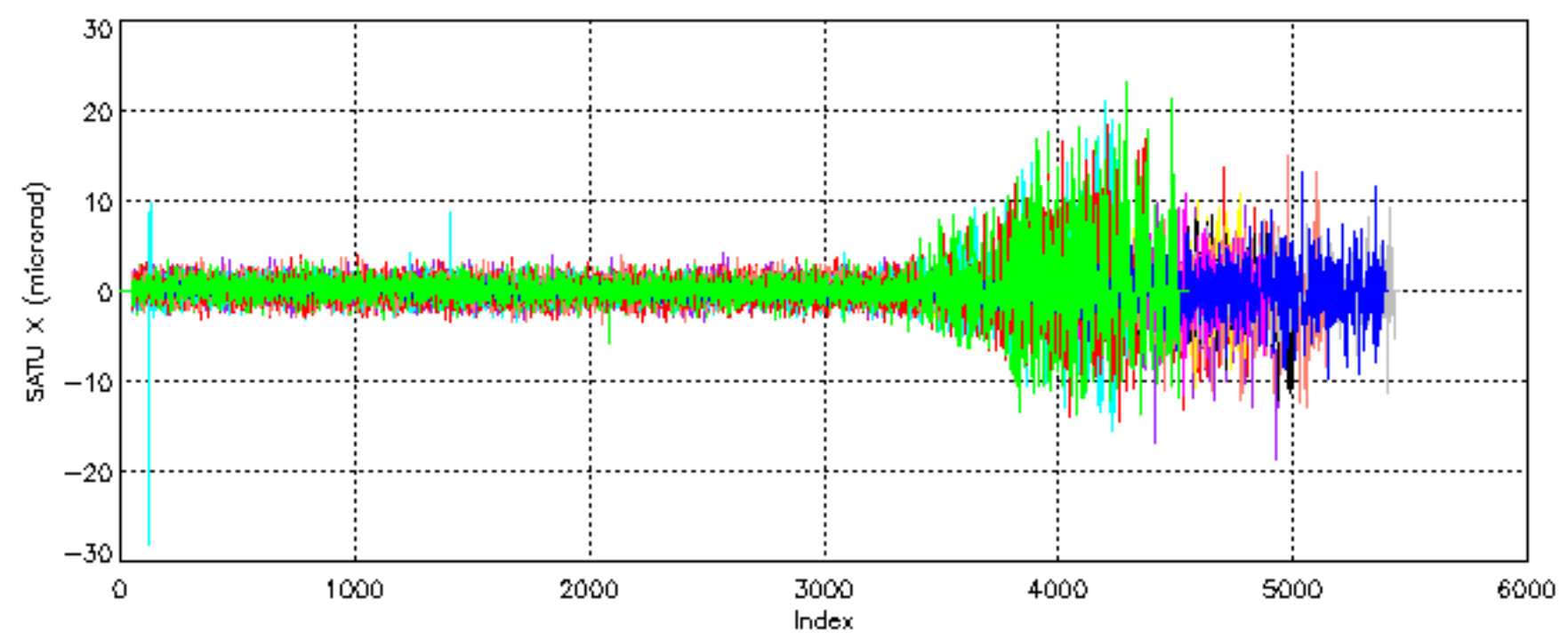


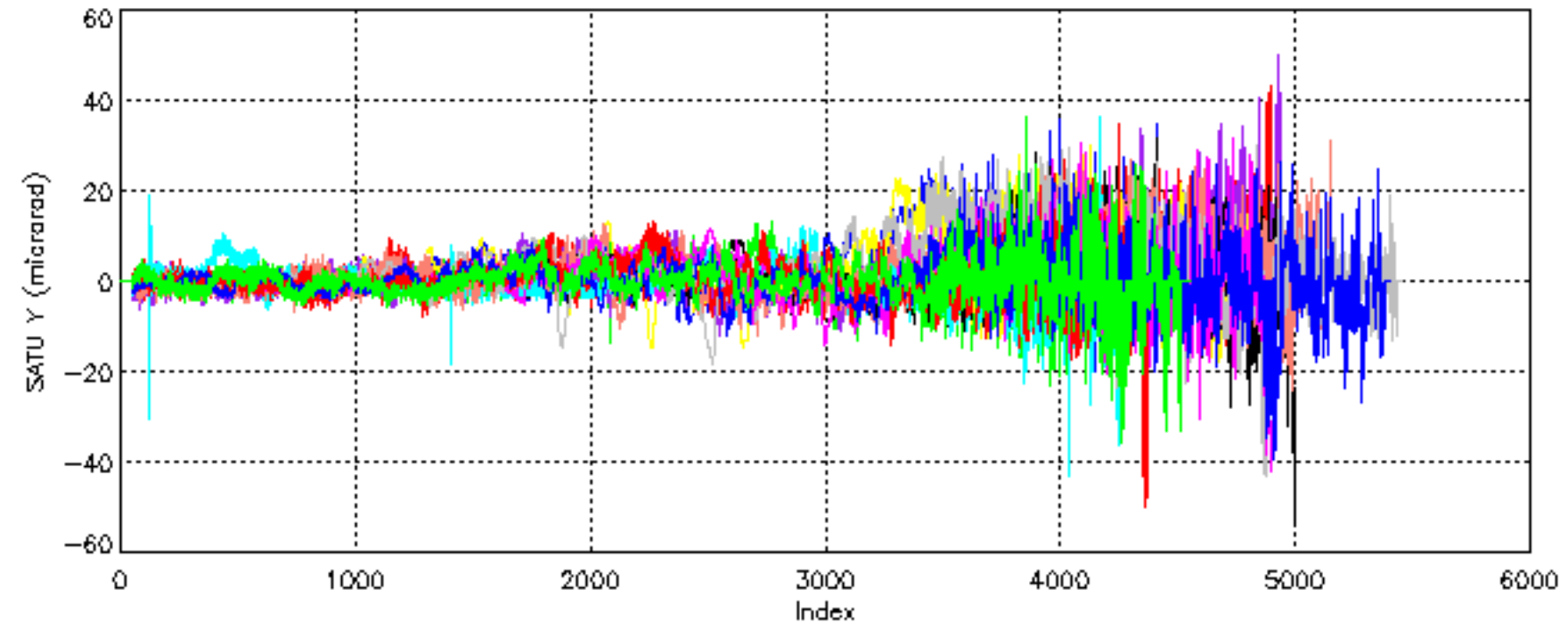
Tangent altitude at which the star is lost

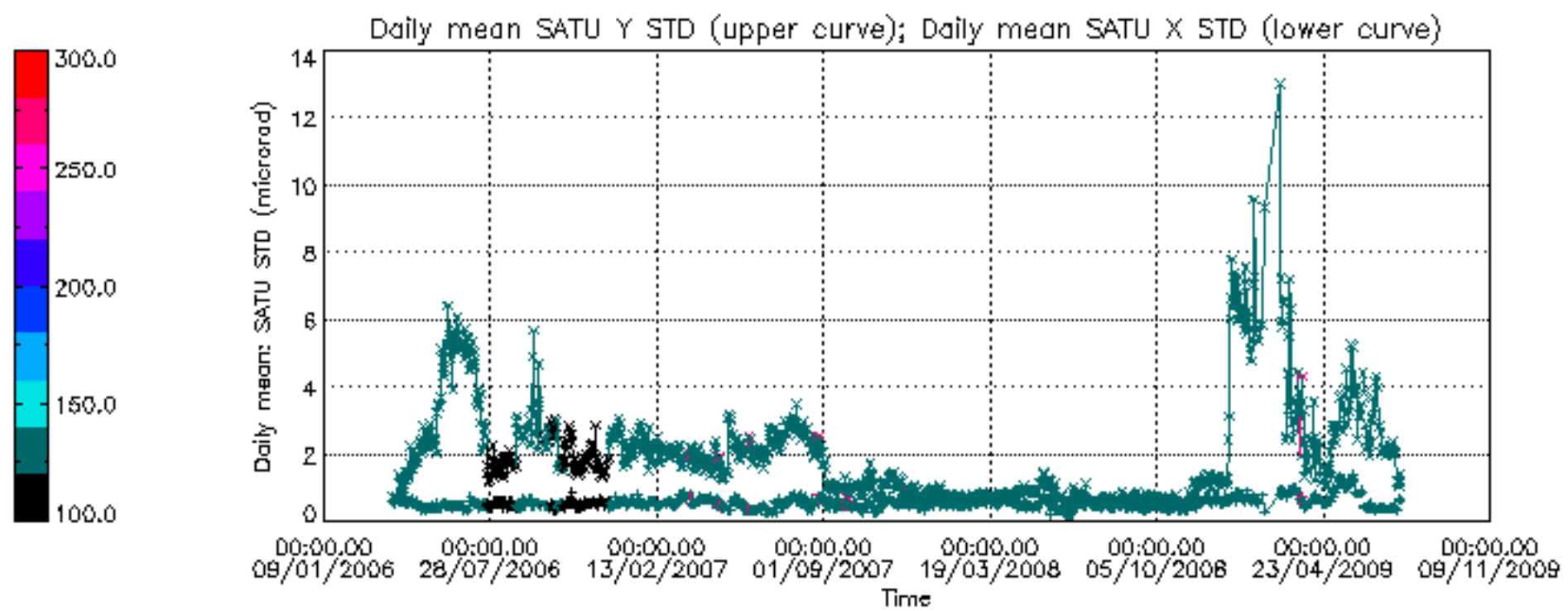


Tangent altitude at which the star is lost









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13; 2920.9; 01-JUL-2009 04:18:43; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38349
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8; 4426.4; 02-JUL-2009 12:35:11; Dark ; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;38368
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6; 3861.4; 04-JUL-2009 14:43:44; Bright; 36.5; 110; 37Del Cas ; 2.68; 8900;occ; 73; 0;38398
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12; 2203.5; 05-JUL-2009 05:21:29; Bright; 66.0; 168; 17Zet Aql ; 2.99; 11000;occ; 132; 0;38407
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3; 553.5; 05-JUL-2009 21:39:58; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;38417
4; 664.5; 05-JUL-2009 21:41:49; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38417
5; 847.7; 05-JUL-2009 21:44:53; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38417
6; 2199.5; 05-JUL-2009 22:07:24; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38417
7; 2621.5; 05-JUL-2009 22:14:26; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;38417
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 6; 163.2; 05-JUL-2009 08:08:41; Dark ; 52.0; 84; Alp Phe ; 2.40; 4500;occ; 104; 0;38409
 7; 546.3; 05-JUL-2009 08:15:04; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;38409
 8; 657.9; 05-JUL-2009 08:16:55; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38409
 9; 840.1; 05-JUL-2009 08:19:58; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38409
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 4; 3302.3; 05-JUL-2009 09:01:00; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38409
 5; 3751.5; 05-JUL-2009 09:08:29; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;38409
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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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4; 667.1; 06-JUL-2009 02:43:40; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38420
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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
7; 2620.5; 06-JUL-2009 03:16:13; Bright; 40.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 81; 0;38420
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4; -1605.9; 06-JUL-2009 03:46:23; Dark ; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;38420
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8; 557.6; 06-JUL-2009 04:22:26; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38421
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11; 2197.1; 06-JUL-2009 06:30:22; Bright; 41.5; 168; 17Zet Aql ; 2.99; 11000;occ; 83; 0;38422
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13; 2862.3; 06-JUL-2009 06:41:27; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;38422
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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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6; 3850.5; 06-JUL-2009 20:22:42; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38430
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 4; 3289.2; 06-JUL-2009 18:32:45; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38429
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 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
 5; -1322.4; 07-JUL-2009 06:40:41; Dark ; 50.0; 50; 13Alp Ari ; 2.01; 4250;occ; 100; 0;38436
 6; -1015.2; 07-JUL-2009 06:45:48; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;38436
 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
14; 6907.5; 07-JUL-2009 15:40:14; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;38441
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 2; 2848.2; 07-JUL-2009 16:13:11; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;38442
 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
10; 5597.1; 07-JUL-2009 16:59:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38442
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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6; 4258.2; 07-JUL-2009 18:17:17; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;38443
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
9; 5024.5; 07-JUL-2009 18:30:03; Dark ; 41.5; 94; 92Alp Cet ; 2.53; 3100;occ; 83; 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
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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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4; -1008.7; 08-JUL-2009 02:53:06; Dark ; 40.5; 94; 92Alp Cet ; 2.53; 3100;occ; 81; 0;38448
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6; 207.0; 08-JUL-2009 03:13:21; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;38449
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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3; -1986.2; 11-JUL-2009 06:03:45; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;38493
4; -1784.7; 11-JUL-2009 06:07:07; Bright; 45.0; 73; 57Gam1And ; 2.26; 13100;occ; 90; 0;38493
5; -1601.9; 11-JUL-2009 06:10:09; Dark ; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;38493
6; -982.4; 11-JUL-2009 06:20:29; Dark ; 44.0; 94; 92Alp Cet ; 2.53; 3100;occ; 88; 0;38493
7; -379.4; 11-JUL-2009 06:30:32; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38493
8; 257.2; 11-JUL-2009 06:41:08; Dark ; 51.5; 84; Alp Phe ; 2.40; 4500;occ; 103; 0;38494
9; 623.7; 11-JUL-2009 06:47:15; Dark ; 62.0; 63; Bet Gru ; 2.15; 2800;occ; 124; 0;38494
10; 726.9; 11-JUL-2009 06:48:58; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38494
11; 917.1; 11-JUL-2009 06:52:08; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38494
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3; 3248.1; 11-JUL-2009 07:30:59; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38494
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
10; 5657.8; 11-JUL-2009 08:11:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38494
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12; 6660.7; 11-JUL-2009 08:27:52; Dark ; 65.0; 63; Bet Gru ; 2.15; 2800;occ; 130; 0;38494
13; 6763.8; 11-JUL-2009 08:29:35; Dark ; 54.5; 31; Alp Gru ; 1.73; 15200;occ; 109; 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
8; 4434.3; 11-JUL-2009 11:11:57; Dark ; 40.0; 173; 4Bet Tri ; 3.00; 8900;occ; 80; 0;38496
9; 5055.6; 11-JUL-2009 11:22:19; Dark ; 44.0; 94; 92Alp Cet ; 2.53; 3100;occ; 88; 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
14; 6955.4; 11-JUL-2009 11:53:58; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38496
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3; 3246.2; 11-JUL-2009 12:32:45; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38497
4; 3697.2; 11-JUL-2009 12:40:16; Bright; 73.0; 74; 11Bet Cas ; 2.27; 6600;occ; 146; 0;38497
5; 3825.3; 11-JUL-2009 12:42:24; Bright; 45.5; 110; 37Del Cas ; 2.68; 8900;occ; 91; 0;38497
6; 4049.1; 11-JUL-2009 12:46:08; Bright; 38.0; 160; 23Gam Per ; 2.93; 4700;occ; 76; 0;38497
7; 4250.5; 11-JUL-2009 12:49:29; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;38497
8; 4434.6; 11-JUL-2009 12:52:33; Dark ; 40.0; 173; 4Bet Tri ; 3.00; 8900;occ; 80; 0;38497
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12; 6663.2; 11-JUL-2009 13:29:42; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38497
13; 6765.9; 11-JUL-2009 13:31:25; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38497
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3; 3245.8; 11-JUL-2009 14:13:21; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38498
4; 3696.8; 11-JUL-2009 14:20:52; Bright; 46.5; 74; 11Bet Cas ; 2.27; 6600;occ; 93; 0;38498
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
7; 4250.6; 11-JUL-2009 14:30:05; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;38498
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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11; 6298.7; 11-JUL-2009 15:04:13; Dark ; 51.5; 84; Alp Phe ; 2.40; 4500;occ; 103; 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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3; 3245.3; 11-JUL-2009 15:53:56; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38499
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8; 4434.7; 11-JUL-2009 16:13:45; Dark ; 33.0; 173; 4Bet Tri ; 3.00; 8900;occ; 66; 0;38499
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3; 633.5; 12-JUL-2009 01:14:00; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38505
4; 735.6; 12-JUL-2009 01:15:42; Dark ; 57.0; 31; Alp Gru ; 1.73; 15200;occ; 114; 0;38505
5; 926.1; 12-JUL-2009 01:18:52; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;38505
6; 2170.5; 12-JUL-2009 01:39:37; Bright; 42.0; 168; 17Zet Aql ; 2.99; 11000;occ; 84; 0;38505
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9; 2170.2; 12-JUL-2009 03:20:12; Bright; 41.5; 168; 17Zet Aql ; 2.99; 11000;occ; 83; 0;38506
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2; 2787.9; 14-JUL-2009 10:50:16; Bright; 42.5; 144; 18Del Cyg ; 2.86; 11000;occ; 85; 0;38539
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
14; 6797.8; 14-JUL-2009 11:57:06; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38539
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7; 4122.4; 14-JUL-2009 12:53:06; Bright; 39.0; 35; 33Alp Per ; 1.79; 6250;occ; 78; 0;38540
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13; 6798.6; 14-JUL-2009 13:37:42; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38540
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3; 2934.4; 14-JUL-2009 14:13:54; Bright; 52.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 105; 0;38541
4; 3219.7; 14-JUL-2009 14:18:39; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38541
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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 5; 3217.3; 14-JUL-2009 21:01:01; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38545
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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
10; 3664.7; 14-JUL-2009 22:49:04; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;38546
11; 3804.8; 14-JUL-2009 22:51:24; Bright; 44.5; 110; 37Del Cas ; 2.68; 8900;occ; 89; 0;38546
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13; 4121.8; 14-JUL-2009 22:56:41; Bright; 43.0; 35; 33Alp Per ; 1.79; 6250;occ; 86; 0;38546
14; 4297.3; 14-JUL-2009 22:59:37; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 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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 8; 2928.8; 15-JUL-2009 00:17:24; Bright; 52.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 104; 0;38547
 9; 3216.0; 15-JUL-2009 00:22:11; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;38547
10; 3663.8; 15-JUL-2009 00:29:39; Bright; 65.0; 74; 11Bet Cas ; 2.27; 6600;occ; 130; 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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 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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 11; 2782.6; 15-JUL-2009 03:36:10; Bright; 43.0; 144; 18Del Cyg ; 2.86; 11000;occ; 86; 0;38549
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 9; 672.1; 15-JUL-2009 04:41:35; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38550
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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
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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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8; 4121.2; 15-JUL-2009 10:40:52; Bright; 43.0; 35; 33Alp Per ; 1.79; 6250;occ; 86; 0;38553
9; 4297.0; 15-JUL-2009 10:43:48; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38553
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14; 6808.0; 15-JUL-2009 11:25:39; Dark ; 53.0; 31; Alp Gru ; 1.73; 15200;occ; 106; 0;38553
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4; 3211.8; 15-JUL-2009 12:06:19; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38554
5; 3659.0; 15-JUL-2009 12:13:46; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38554
6; 3800.8; 15-JUL-2009 12:16:08; Bright; 44.0; 110; 37Del Cas ; 2.68; 8900;occ; 88; 0;38554
7; 4040.7; 15-JUL-2009 12:20:08; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;38554
8; 4121.1; 15-JUL-2009 12:21:28; Bright; 51.5; 35; 33Alp Per ; 1.79; 6250;occ; 103; 0;38554
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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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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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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 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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 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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 5; 991.7; 18-JUL-2009 01:31:28; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38591
 6; 2153.4; 18-JUL-2009 01:50:50; Bright; 39.5; 168; 17Zet Aql ; 2.99; 11000;occ; 79; 0;38591
 7; 2761.6; 18-JUL-2009 02:00:58; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38591
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6;-1561.8; 18-JUL-2009 04:10:06; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38592
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4;-1919.2; 18-JUL-2009 05:44:45; Bright; 55.0; 35; 33Alp Per ; 1.79; 6250;occ; 110; 0;38593
5;-1740.4; 18-JUL-2009 05:47:44; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38593
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6; 3625.2; 18-JUL-2009 20:41:57; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38602
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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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7; 4020.1; 22-JUL-2009 15:20:51; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;38656
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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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3; -103.1; 25-JUL-2009 22:40:53; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;38703
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
18; 4758.9; 26-JUL-2009 00:01:55; Dark ; 45.0; 13; 87Alp Tau ; 0.87; 3800;occ; 90; 0;38704
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2; -2026.0; 25-JUL-2009 07:03:27; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38694
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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2; 2639.9; 25-JUL-2009 08:21:13; Bright; 49.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 98; 0;38695
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
18; 7094.3; 25-JUL-2009 09:35:27; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 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
18; 7094.7; 25-JUL-2009 11:16:03; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 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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8; 4287.9; 25-JUL-2009 13:50:28; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38698
 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
 15; 6527.7; 25-JUL-2009 14:27:48; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38698
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 3; 2816.3; 25-JUL-2009 15:06:33; Bright; 43.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 87; 0;38699
 4; 3133.4; 25-JUL-2009 15:11:50; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38699
 5; 3552.2; 25-JUL-2009 15:18:49; Bright; 67.5; 74; 11Bet Cas ; 2.27; 6600;occ; 135; 0;38699
 6; 3657.6; 25-JUL-2009 15:20:34; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38699
 7; 4008.6; 25-JUL-2009 15:26:25; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38699
 8; 4100.2; 25-JUL-2009 15:27:56; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 0;38699
 9; 4287.8; 25-JUL-2009 15:31:04; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38699
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 11; 4662.1; 25-JUL-2009 15:37:18; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38699
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 18; 7096.8; 25-JUL-2009 16:17:53; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38699

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 3; 2815.7; 25-JUL-2009 16:47:08; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38700
 4; 3133.0; 25-JUL-2009 16:52:25; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38700
 5; 3551.5; 25-JUL-2009 16:59:24; Bright; 53.0; 74; 11Bet Cas ; 2.27; 6600;occ; 106; 0;38700
 6; 3656.9; 25-JUL-2009 17:01:09; Bright; 71.0; 76; 27Gam Cas ; 2.30; 30000;occ; 142; 0;38700
 7; 4008.3; 25-JUL-2009 17:07:01; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38700
 8; 4100.0; 25-JUL-2009 17:08:32; Bright; 44.0; 35; 33Alp Per ; 1.79; 6250;occ; 88; 0;38700
 9; 4287.7; 25-JUL-2009 17:11:40; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38700
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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
 13; 5371.3; 25-JUL-2009 17:29:44; Dark ; 50.5; 165; 34Gam Eri ; 2.95; 3200;occ; 101; 0;38700
 14; 5603.1; 25-JUL-2009 17:33:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38700
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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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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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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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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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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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 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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 12; 4767.4; 27-JUL-2009 17:57:02; Dark ; 46.5; 13; 87Alp Tau ; 0.87; 3800;occ; 93; 0;38729
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 5; 2709.8; 27-JUL-2009 19:03:20; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38730
 6; 2798.0; 27-JUL-2009 19:04:48; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38730
 7; 3118.5; 27-JUL-2009 19:10:09; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38730
 8; 3527.9; 27-JUL-2009 19:16:58; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38730
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 5; 888.3; 28-JUL-2009 01:15:22; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38734
 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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 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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 7; 3609.7; 30-JUL-2009 17:43:29; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38772
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 4; 2589.4; 30-JUL-2009 19:07:05; Bright; 44.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 89; 0;38773
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 12; 4499.1; 30-JUL-2009 19:38:54; Dark ; 55.0; 150; 44Zet Per ; 2.89; 28000;occ; 110; 0;38773
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4; -1251.4; 31-JUL-2009 02:26:03; Dark ; 61.5; 13; 87Alp Tau ; 0.87; 3800;occ; 123; 0;38777
5; -759.7; 31-JUL-2009 02:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38777
6; -601.0; 31-JUL-2009 02:36:54; Dark ; 57.5; 165; 34Gam Eri ; 2.95; 3200;occ; 115; 0;38777
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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
13; 2772.8; 31-JUL-2009 03:33:08; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;38778
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5; 1826.3; 31-JUL-2009 06:38:33; Bright; 28.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 56; 0;38780
6; 2585.6; 31-JUL-2009 06:51:12; Bright; 44.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 89; 0;38780
7; 2771.8; 31-JUL-2009 06:54:19; Bright; 44.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 89; 0;38780
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4; 2581.1; 31-JUL-2009 20:15:55; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;38788
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6; 3092.4; 31-JUL-2009 20:24:27; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38788
7; 3481.2; 31-JUL-2009 20:30:56; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38788
8; 3598.7; 31-JUL-2009 20:32:53; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38788
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