

GOMOS Daily Report 14-OCT-2007

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	16OCT2007 05:42:49
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (14OCT2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (15OCT2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

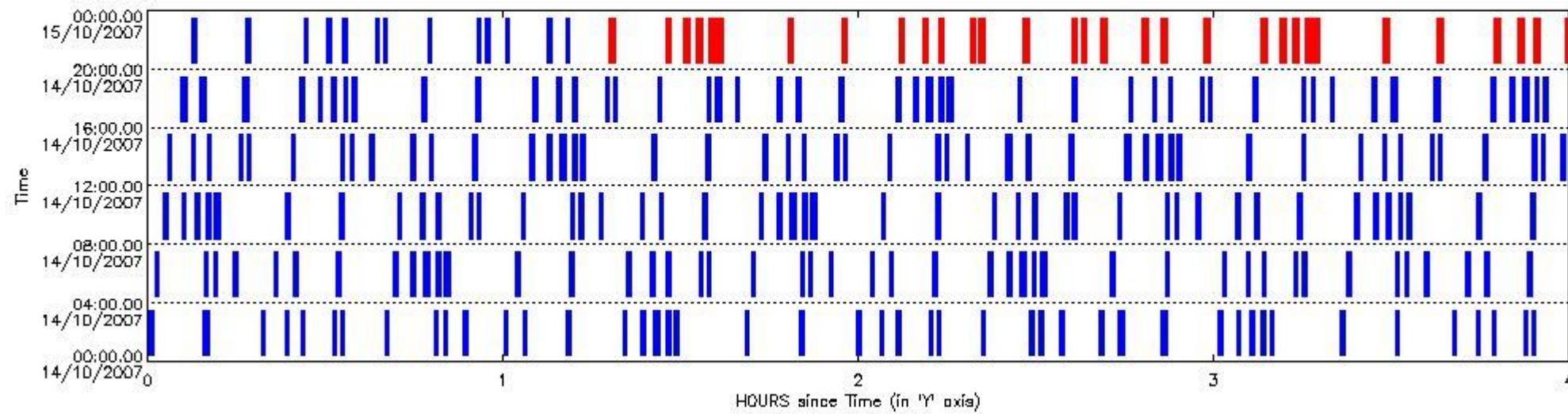
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
14-OCT-2007 21:17:49	30AlpHya	48	29398
14-OCT-2007 21:27:23	LamVel	65	29398
14-OCT-2007 21:30:31	Gam2Vel	34	29398
14-OCT-2007 21:32:40	DSA1055	0	29399
14-OCT-2007 21:34:45	TauPup	161	29399
14-OCT-2007 21:36:07	AlpCar	2	29399
14-OCT-2007 21:48:00	The1Eri	157	29399
14-OCT-2007 21:57:09	16BetCet	52	29399
14-OCT-2007 22:06:51	88GamPeg	140	29399
14-OCT-2007 22:10:49	21AlpAnd	58	29399
14-OCT-2007 22:13:26	43BetAnd	53	29399
14-OCT-2007 22:18:55	18AlpCas	68	29399
14-OCT-2007 22:20:17	27GamCas	76	29399
14-OCT-2007 22:27:51	1AlpUMi	49	29399
14-OCT-2007 22:36:04	50AlpUMa	36	29399

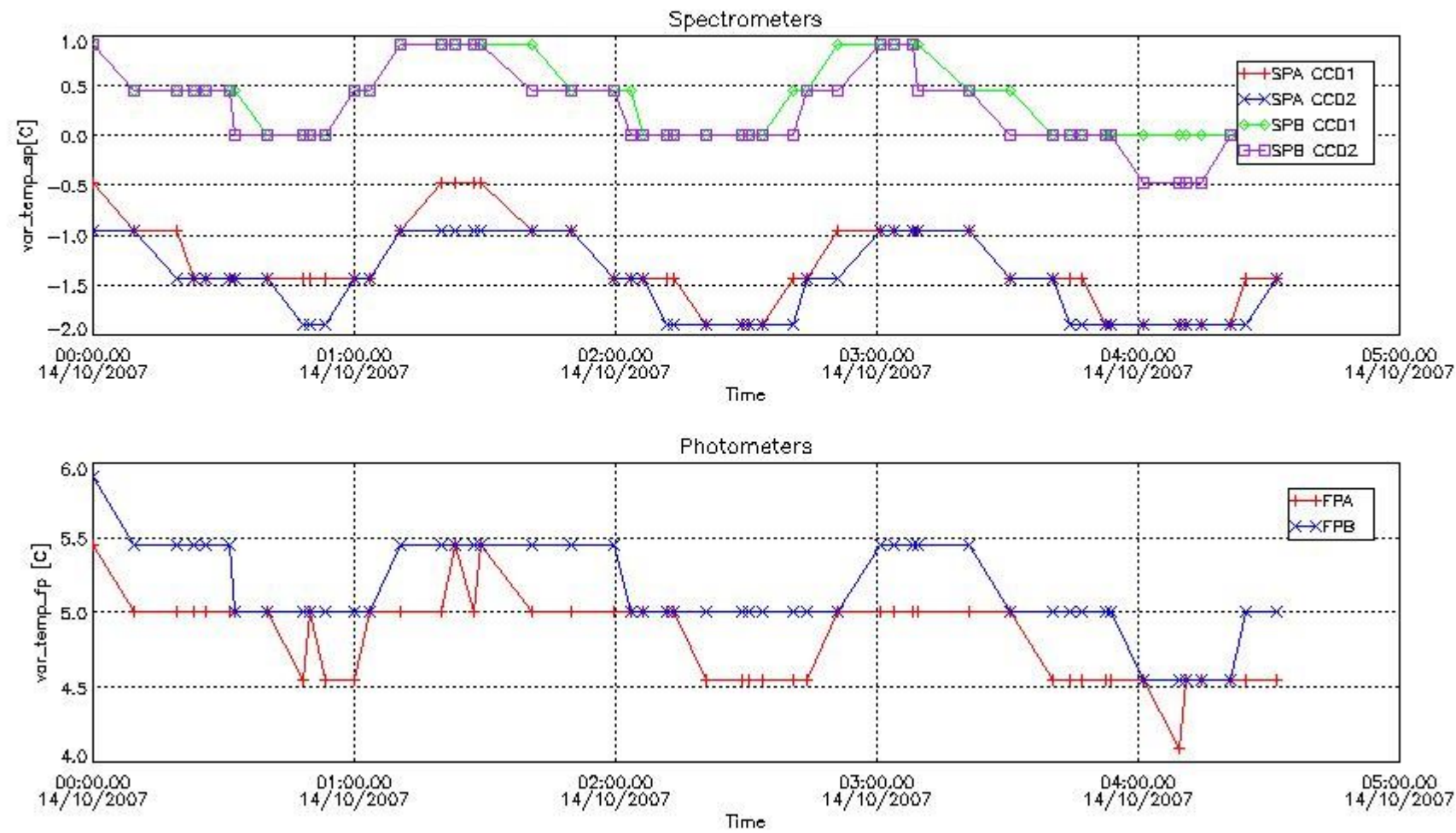
14-OCT-2007 22:37:37	48BetUMa	82	29399
14-OCT-2007 22:40:59	52PsiUMa	174	29399
14-OCT-2007 22:47:54	17EpsLeo	166	29399
14-OCT-2007 22:51:09	32AlpLeo	22	29399
14-OCT-2007 22:58:26	30AlpHya	48	29399
14-OCT-2007 23:08:00	LamVel	65	29399
14-OCT-2007 23:11:07	Gam2Vel	34	29399
14-OCT-2007 23:13:17	DSA1055	0	29400
14-OCT-2007 23:15:22	TauPup	161	29400
14-OCT-2007 23:16:43	AlpCar	2	29400
14-OCT-2007 23:28:36	The1Eri	157	29400
14-OCT-2007 23:37:45	16BetCet	52	29400
14-OCT-2007 23:47:27	88GamPeg	140	29400
14-OCT-2007 23:51:25	21AlpAnd	58	29400
14-OCT-2007 23:54:02	43BetAnd	53	29400
14-OCT-2007 23:59:30	18AlpCas	68	29400

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_1PNPDE20071014_000009_000000462062_00274_29386_3685.N1	14-OCT-2007 00:00:09	Straylight	46.000	157	The1Eri	2.9060	9300.0	92	29386	No
2	GOM_TRA_1PNPDE20071014_000923_000000512062_00274_29386_3686.N1	14-OCT-2007 00:09:23	Straylight	50.500	52	16Bet Cet	2.0370	4500.0	101	29386	No
3	GOM_TRA_1PNPDE20071014_001907_000000362062_00274_29386_3687.N1	14-OCT-2007 00:19:07	Bright	35.500	140	88Gam Peg	2.8340	26000.	71	29386	No
4	GOM_TRA_1PNPDE20071014_002306_000000382062_00274_29386_3688.N1	14-OCT-2007 00:23:06	Bright	37.500	58	21Alp And	2.0730	11000.	75	29386	No
5	GOM_TRA_1PNPDE20071014_002547_000000432062_00274_29386_3689.N1	14-OCT-2007 00:25:47	Bright	43.000	53	43Bet And	2.0480	3300.0	86	29386	No
6	GOM_TRA_1PNPDE20071014_003114_000000372062_00274_29386_3690.N1	14-OCT-2007 00:31:14	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	29386	No
7	GOM_TRA_1PNPDE20071014_003236_000000382062_00274_29386_3691.N1	14-OCT-2007 00:32:36	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	29386	No
8	GOM_TRA_1PNPDE20071014_004007_000000352062_00274_29386_3692.N1	14-OCT-2007 00:40:07	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	29386	No
9	GOM_TRA_1PNPDE20071014_004820_000000372062_00274_29386_3693.N1	14-OCT-2007 00:48:20	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	29386	No
10	GOM_TRA_1PNPDE20071014_004953_000000352062_00274_29386_3694.N1	14-OCT-2007 00:49:53	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	29386	No
11	GOM_TRA_1PNPDE20071014_005314_000000522062_00274_29386_3695.N1	14-OCT-2007 00:53:14	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	29386	No
12	GOM_TRA_1PNPDE20071014_010007_000000422062_00274_29386_3696.N1	14-OCT-2007 01:00:07	Bright	41.500	166	17Eps Leo	2.9800	6000.0	83	29386	No
13	GOM_TRA_1PNPDE20071014_010321_000000412062_00274_29386_3697.N1	14-OCT-2007 01:03:21	Bright	40.500	22	32Alp Leo	1.3600	15200.	81	29386	No
14	GOM_TRA_1PNPDE20071014_011033_000000512062_00274_29386_3698.N1	14-OCT-2007 01:10:33	Dark	51.000	48	30Alp Hya	1.9770	4100.0	102	29386	No
15	GOM_TRA_1PNPDE20071014_012008_000000462062_00274_29386_3821.N1	14-OCT-2007 01:20:08	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	29386	No
16	GOM_TRA_1PNPDE20071014_012314_000000432062_00274_29386_3822.N1	14-OCT-2007 01:23:14	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	29386	No
17	GOM_TRA_1PNPDE20071014_012727_000000442062_00275_29387_3823.N1	14-OCT-2007 01:27:27	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	29387	No
18	GOM_TRA_1PNPDE20071014_012849_000000482062_00275_29387_3824.N1	14-OCT-2007 01:28:49	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	29387	No
19	GOM_TRA_1PNPDE20071014_014045_000000462062_00275_29387_3825.N1	14-OCT-2007 01:40:45	Straylight	46.000	157	The1Eri	2.9060	9300.0	92	29387	No
20	GOM_TRA_1PNPDE20071014_014959_000000442062_00275_29387_3826.N1	14-OCT-2007 01:49:59	Straylight	44.000	52	16Bet Cet	2.0370	4500.0	88	29387	No
21	GOM_TRA_1PNPDE20071014_015943_000000362062_00275_29387_3827.N1	14-OCT-2007 01:59:43	Bright	36.000	140	88Gam Peg	2.8340	26000.	72	29387	No
22	GOM_TRA_1PNPDE20071014_020342_000000362062_00275_29387_3828.N1	14-OCT-2007 02:03:42	Bright	35.500	58	21Alp And	2.0730	11000.	71	29387	No
23	GOM_TRA_1PNPDE20071014_020623_000000442062_00275_29387_3829.N1	14-OCT-2007 02:06:23	Bright	43.500	53	43Bet And	2.0480	3300.0	87	29387	No
24	GOM_TRA_1PNPDE20071014_021149_000000362062_00275_29387_3830.N1	14-OCT-2007 02:11:49	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	29387	No
25	GOM_TRA_1PNPDE20071014_021312_000000372062_00275_29387_3831.N1	14-OCT-2007 02:13:12	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	29387	No
26	GOM_TRA_1PNPDE20071014_022043_000000332062_00275_29387_3832.N1	14-OCT-2007 02:20:43	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	29387	No
27	GOM_TRA_1PNPDE20071014_022856_000000372062_00275_29387_3969.N1	14-OCT-2007 02:28:56	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	29387	No
28	GOM_TRA_1PNPDE20071014_023028_000000522062_00275_29387_3970.N1	14-OCT-2007 02:30:28	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	29387	No
29	GOM_TRA_1PNPDE20071014_023350_000000522062_00275_29387_3971.N1	14-OCT-2007 02:33:50	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	29387	No
30	GOM_TRA_1PNPDE20071014_024043_000000422062_00275_29387_3972.N1	14-OCT-2007 02:40:43	Bright	41.500	166	17Eps Leo	2.9800	6000.0	83	29387	No
31	GOM_TRA_1PNPDE20071014_024357_000000502062_00275_29387_3973.N1	14-OCT-2007 02:43:57	Bright	50.000	22	32Alp Leo	1.3600	15200.	100	29387	No
32	GOM_TRA_1PNPDE20071014_025110_000000522062_00275_29387_3974.N1	14-OCT-2007 02:51:10	Dark	52.000	48	30Alp Hya	1.9770	4100.0	104	29387	No
33	GOM_TRA_1PNPDE20071014_030045_000000402062_00275_29387_3975.N1	14-OCT-2007 03:00:45	Dark	39.500	65	Lam Vel	2.2040	4400.0	79	29387	No
34	GOM_TRA_1PNPDE20071014_030351_000000422062_00275_29387_3976.N1	14-OCT-2007 03:03:51	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	29387	No
35	GOM_TRA_1PNPDE20071014_030804_000000442062_00276_29388_3977.N1	14-OCT-2007 03:08:04	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	29388	No
36	GOM_TRA_1PNPDE20071014_030926_000000462062_00276_29388_3978.N1	14-OCT-2007 03:09:26	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	29388	No
37	GOM_TRA_1PNPDE20071014_032122_000000462062_00276_29388_3979.N1	14-OCT-2007 03:21:22	Straylight	46.000	157	The1Eri	2.9060	9300.0	92	29388	No
38	GOM_TRA_1PNPDE20071014_033036_000000422062_00276_29388_3980.N1	14-OCT-2007 03:30:36	Straylight	41.500	52	16Bet Cet	2.0370	4500.0	83	29388	No

39	GOM_TRA_1PNPDE20071014_034019_000000362062_00276_29388_3981.N1	14-OCT-2007 03:40:19	Bright	35.500	140	88Gam Peg	2.8340	26000.	71	29388	No
40	GOM_TRA_1PNPDE20071014_034418_000000372062_00276_29388_3982.N1	14-OCT-2007 03:44:18	Bright	37.000	58	21Alp And	2.0730	11000.	74	29388	No
41	GOM_TRA_1PNPDE20071014_034658_000000422062_00276_29388_3983.N1	14-OCT-2007 03:46:58	Bright	41.500	53	43Bet And	2.0480	3300.0	83	29388	No
42	GOM_TRA_1PNPDE20071014_035225_000000392062_00276_29388_3984.N1	14-OCT-2007 03:52:25	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	29388	No
43	GOM_TRA_1PNPDE20071014_035348_000000372062_00276_29388_3985.N1	14-OCT-2007 03:53:48	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	29388	No
44	GOM_TRA_1PNPDE20071014_040119_000000352062_00276_29388_3986.N1	14-OCT-2007 04:01:19	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	29388	No
45	GOM_TRA_1PNPDE20071014_040932_000000352062_00276_29388_4156.N1	14-OCT-2007 04:09:32	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	29388	No
46	GOM_TRA_1PNPDE20071014_041105_000000352062_00276_29388_4157.N1	14-OCT-2007 04:11:05	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	29388	No
47	GOM_TRA_1PNPDE20071014_041426_000000452062_00276_29388_4158.N1	14-OCT-2007 04:14:26	Bright	45.000	174	52Psi UMa	3.0040	4400.0	90	29388	No
48	GOM_TRA_1PNPDE20071014_042120_000000392062_00276_29388_4159.N1	14-OCT-2007 04:21:20	Bright	39.000	166	17Eps Leo	2.9800	6000.0	78	29388	No
49	GOM_TRA_1PNPDE20071014_042433_000000412062_00276_29388_4160.N1	14-OCT-2007 04:24:33	Bright	41.000	22	32Alp Leo	1.3600	15200.	82	29388	No
50	GOM_TRA_1PNPDE20071014_043147_000000532062_00276_29388_4161.N1	14-OCT-2007 04:31:47	Dark	52.500	48	30Alp Hya	1.9770	4100.0	105	29388	No

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

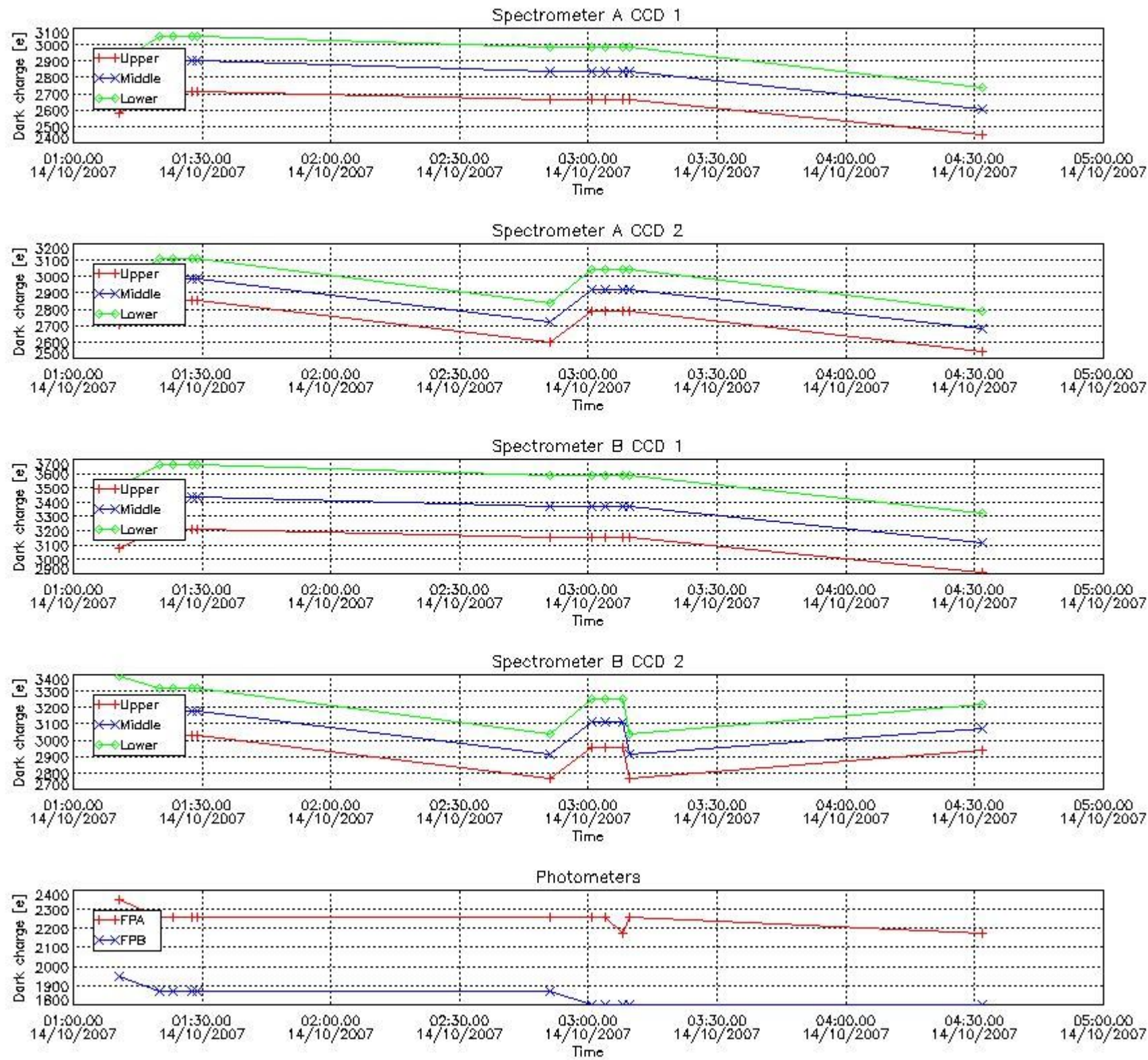


4. Overview of dark signal processing per product

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



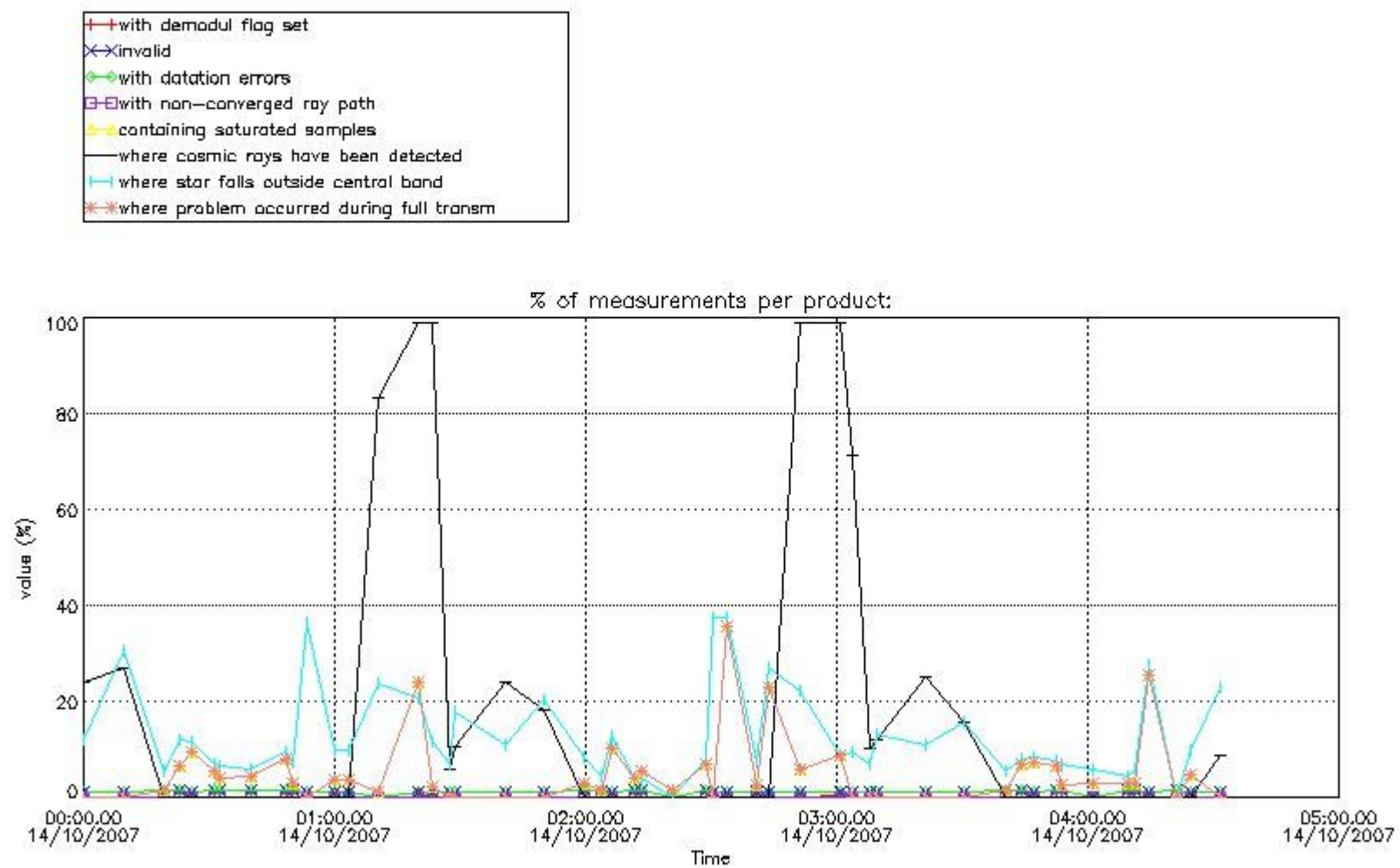
5. Demodulation flag and quality information monitoring

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.

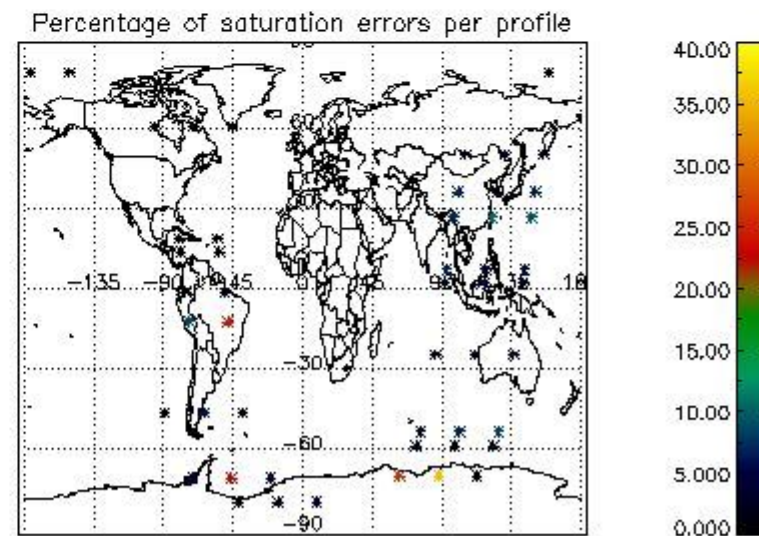
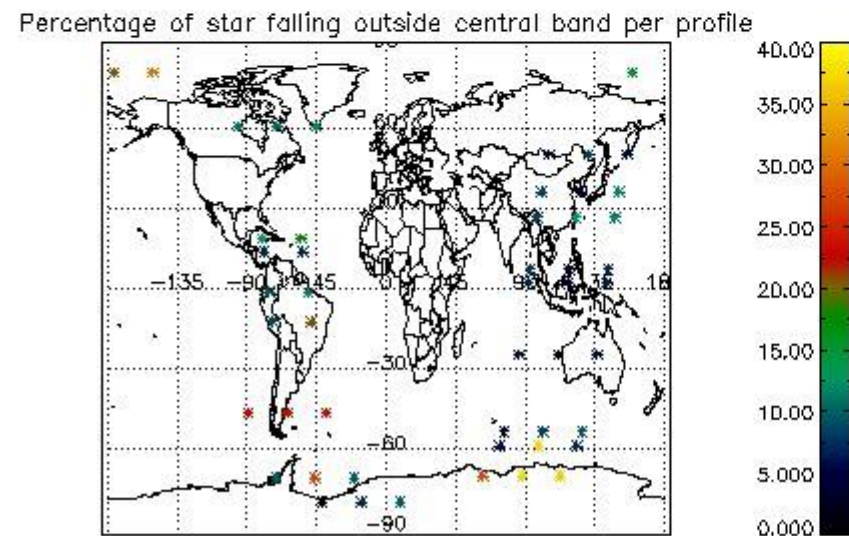
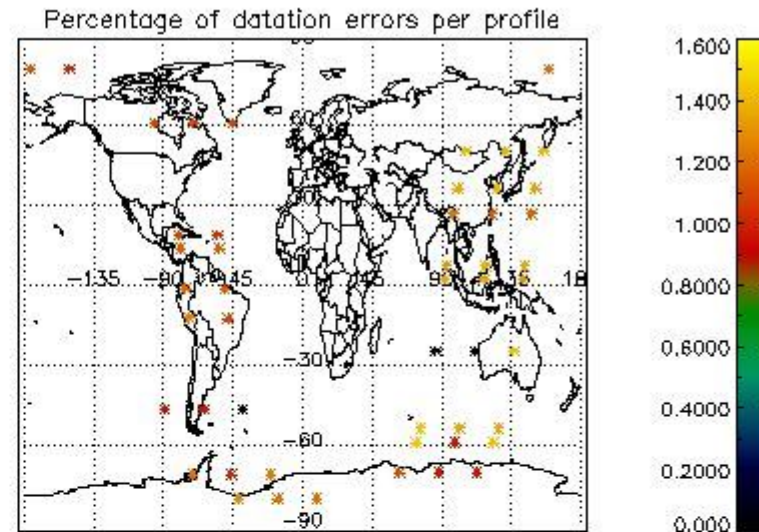
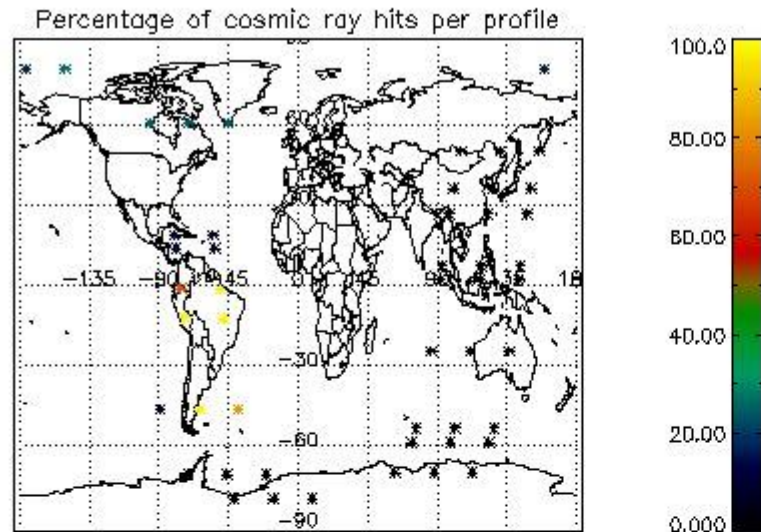
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.0000 %
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)



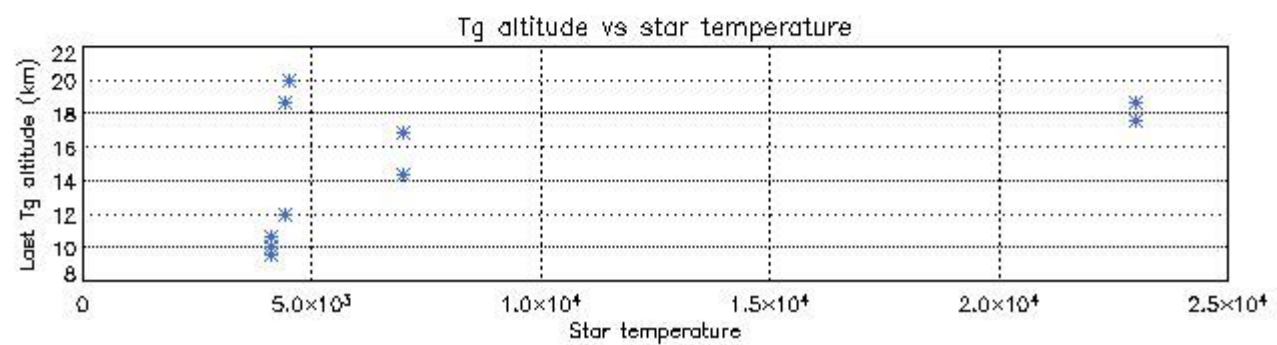
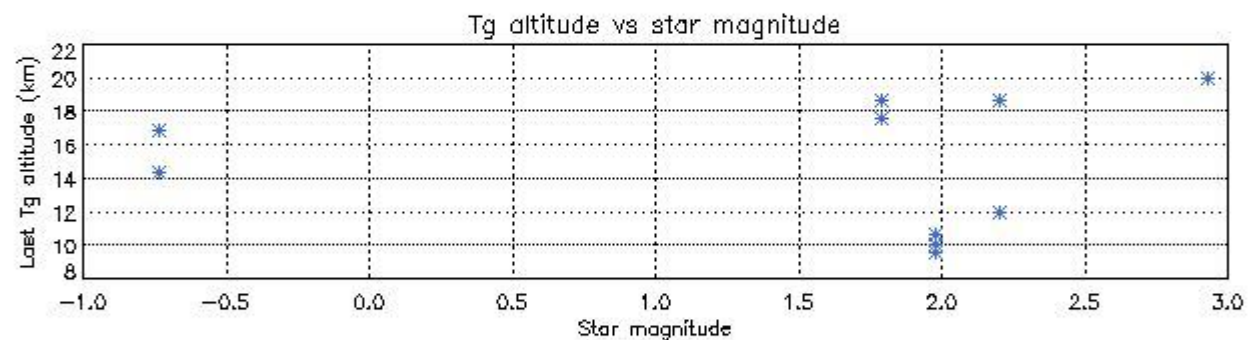
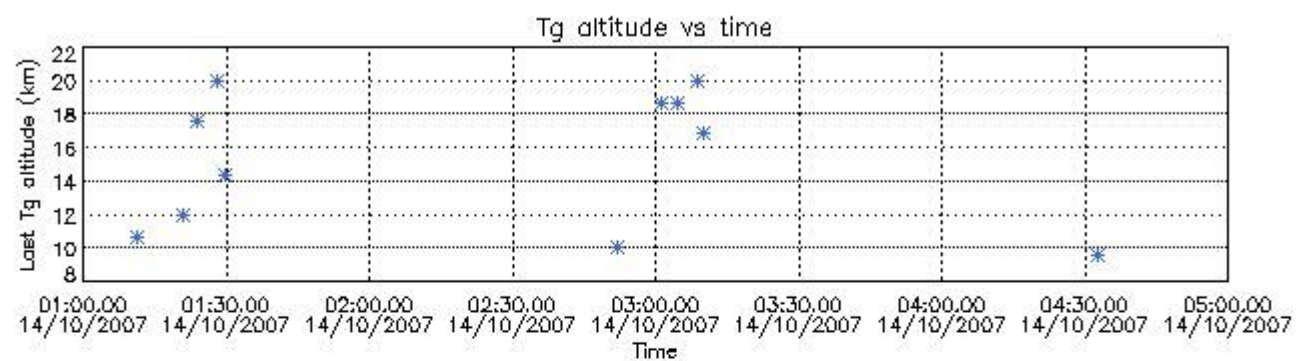
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.288	18.644	NaN
St. deviation:	4.1169	5.9620	NaN
Maximum:	20.016	27.072	NaN
Minimum:	9.5366	4.0272	NaN
Number of data:	11.000	33.000	NaN

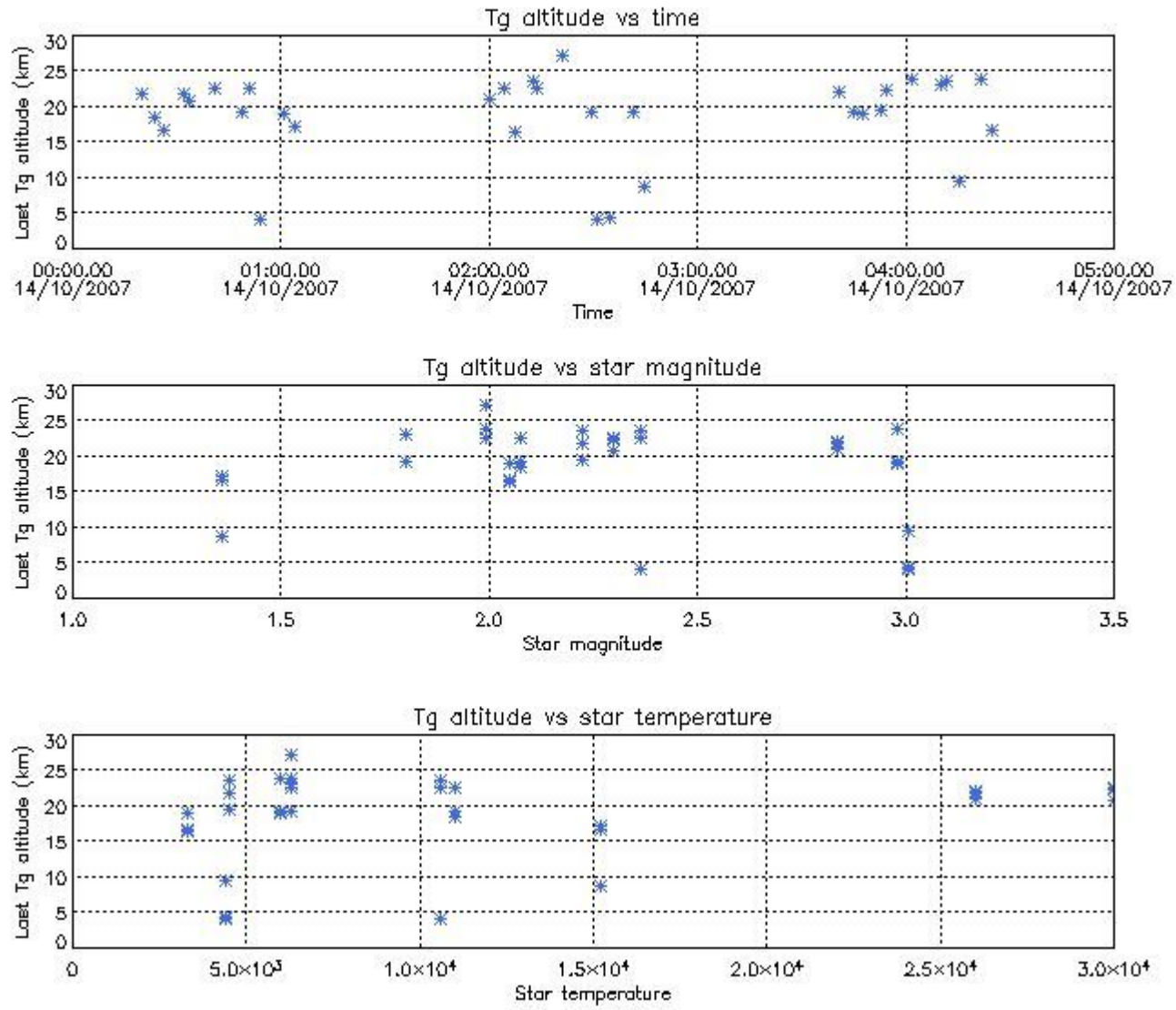
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

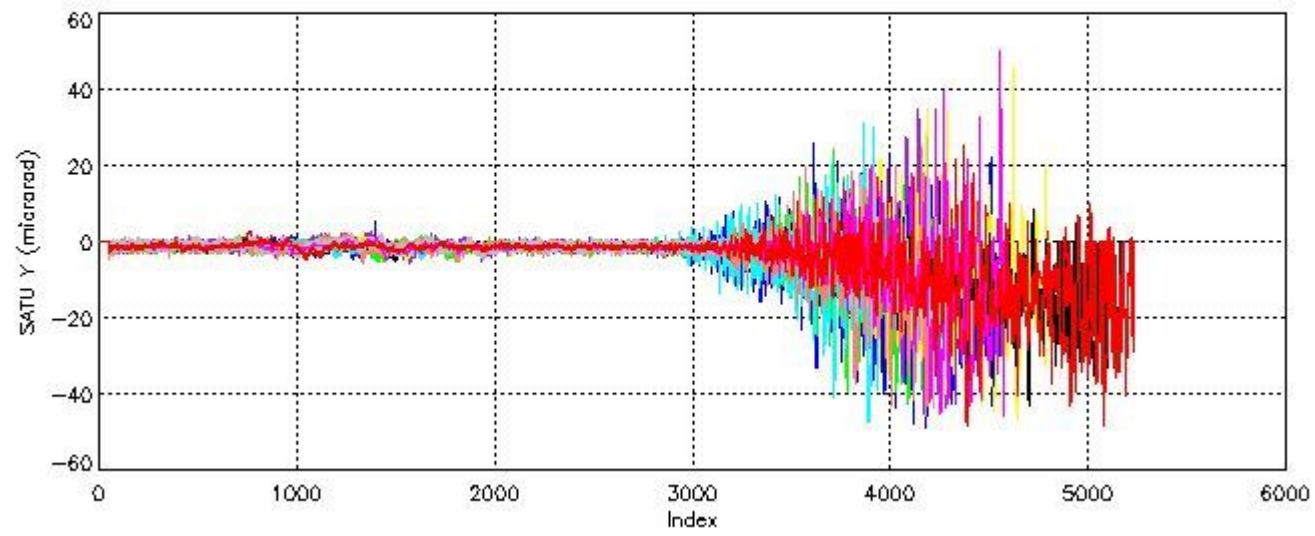
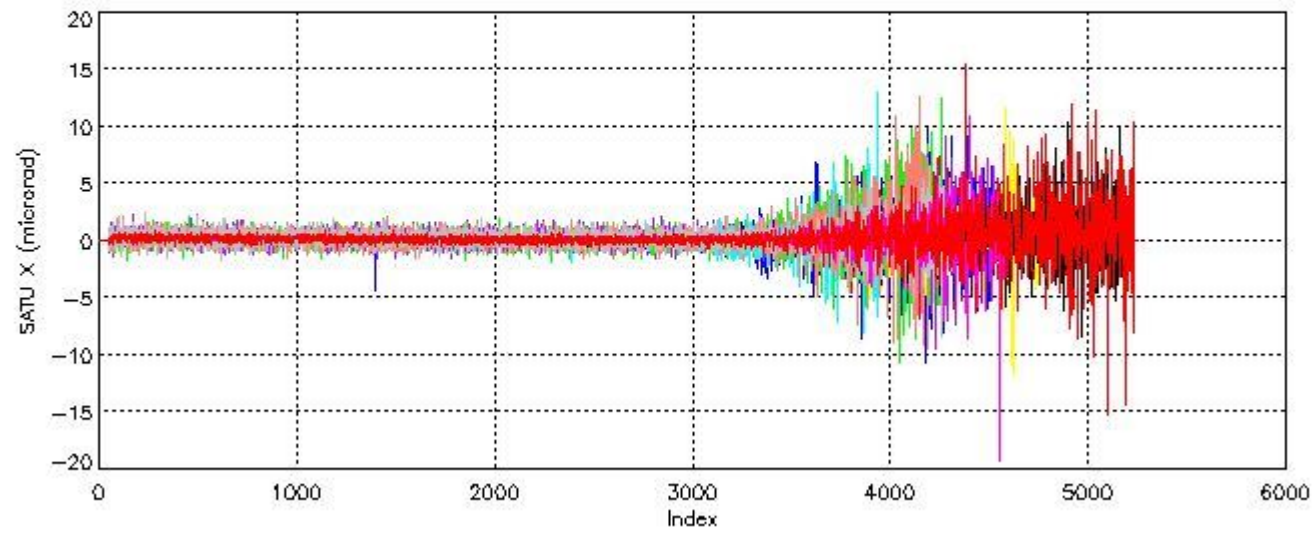


7. Star Acquisition and Tracking Unit (SATU)

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:	0.18575	-1.2036	0.10162	-1.2445
St. deviation:	0.31833	0.78914	0.70996	1.3896
Maximum:	2.4000	2.8000	6.2000	7.0000
Minimum:	-1.8000	-4.8000	-6.2000	-9.1000

Number of data:	11050.	11050.	28050.	28050.
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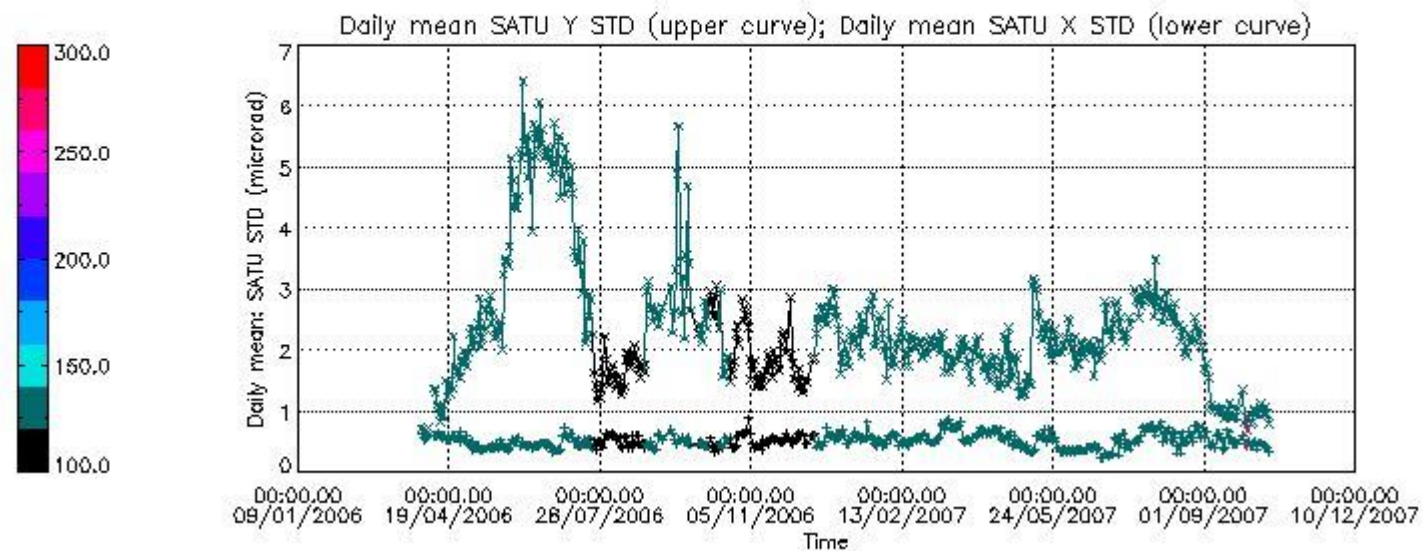
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

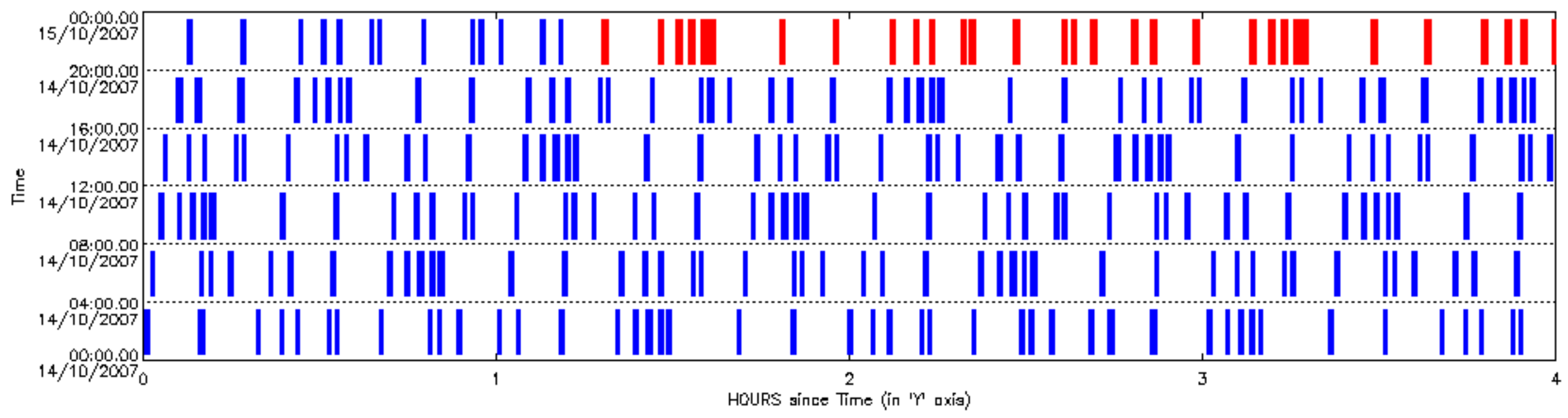
Lower curve: STD of SATU X axis

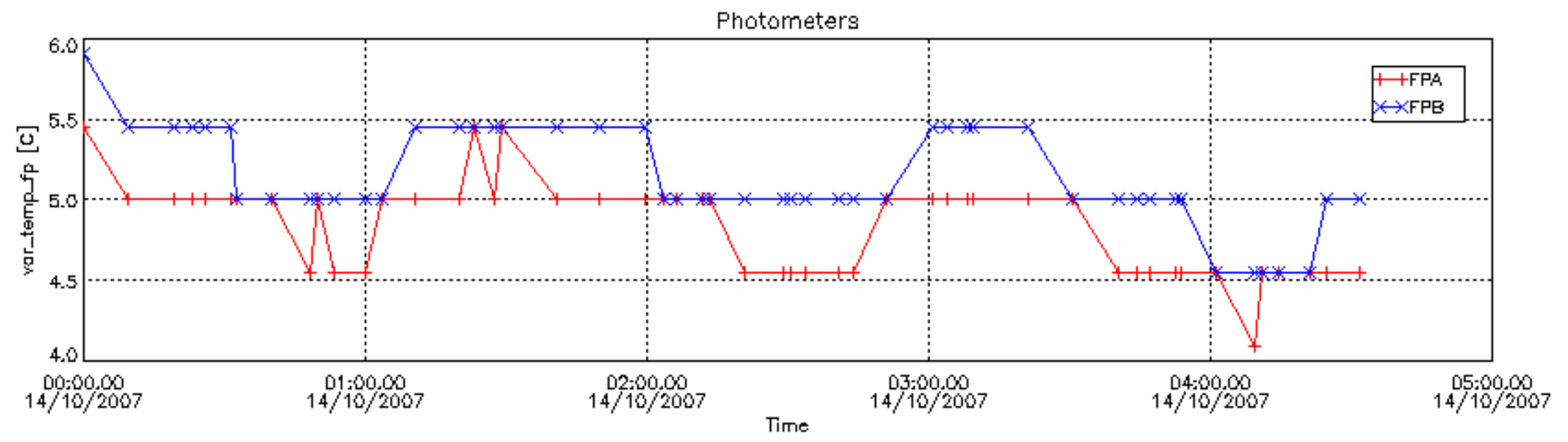
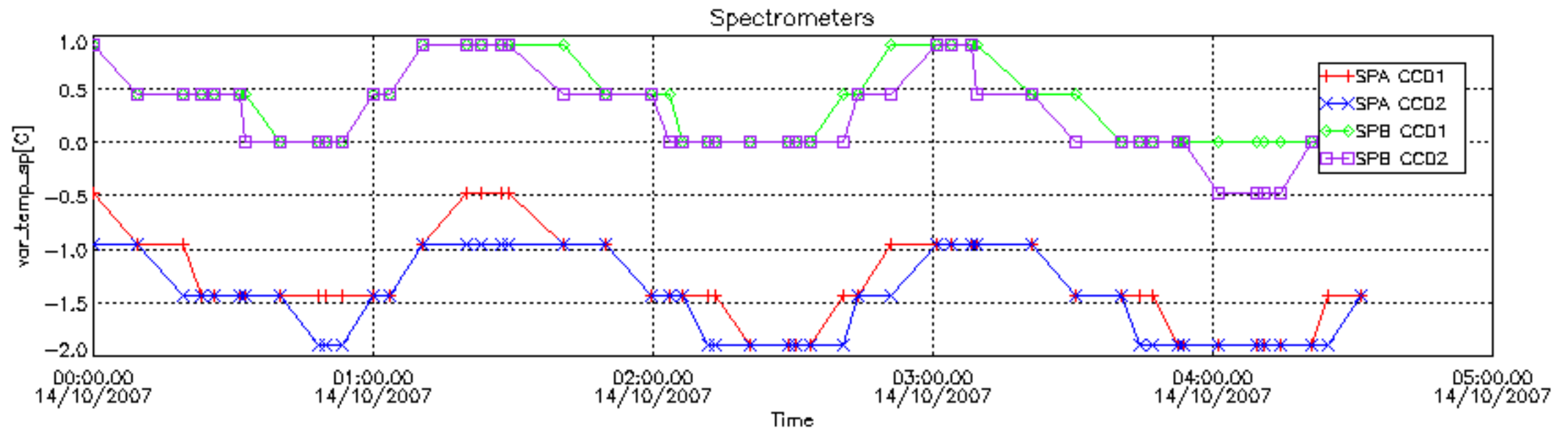


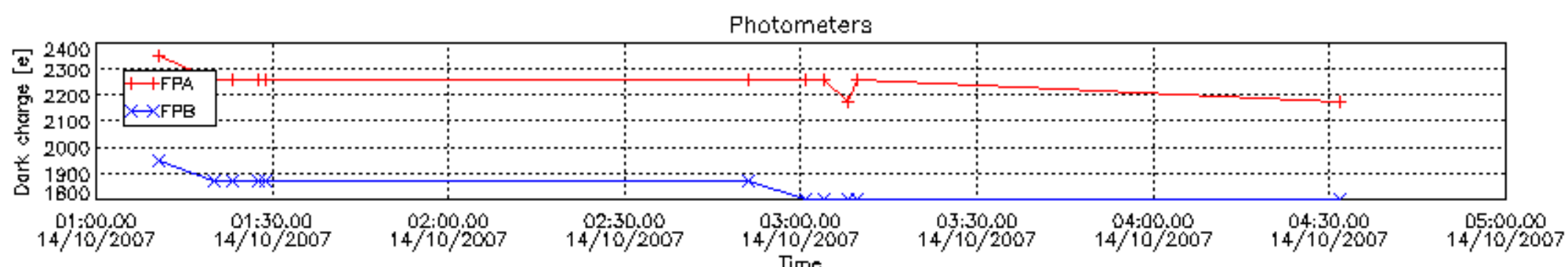
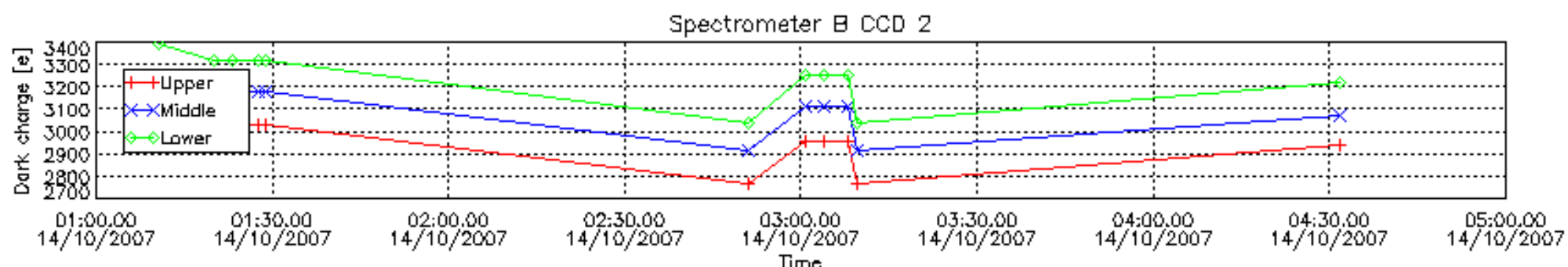
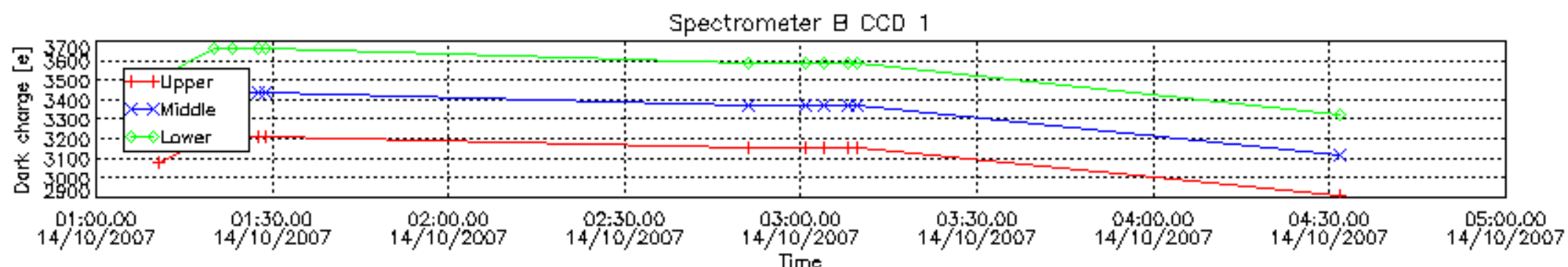
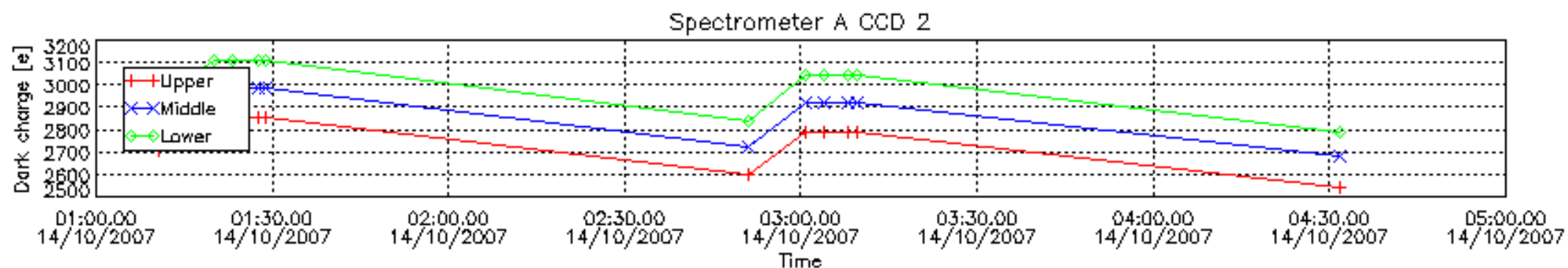
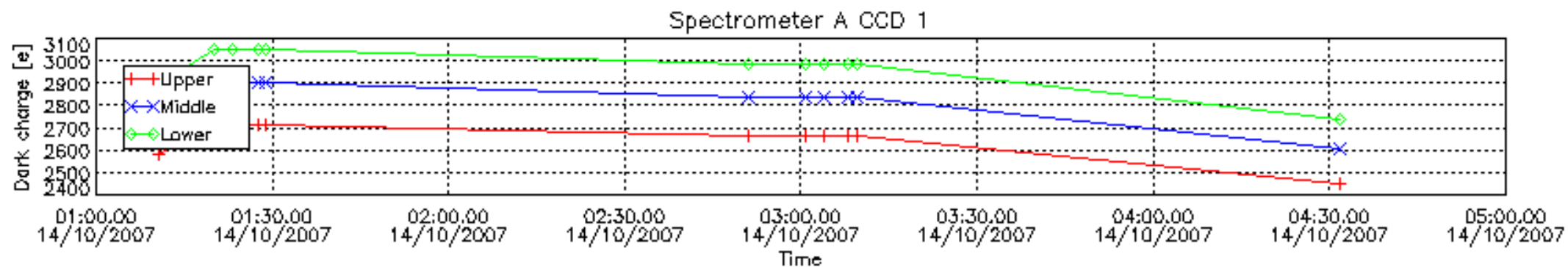
8. Auxiliary Data Files used for the production reported in section 2.4

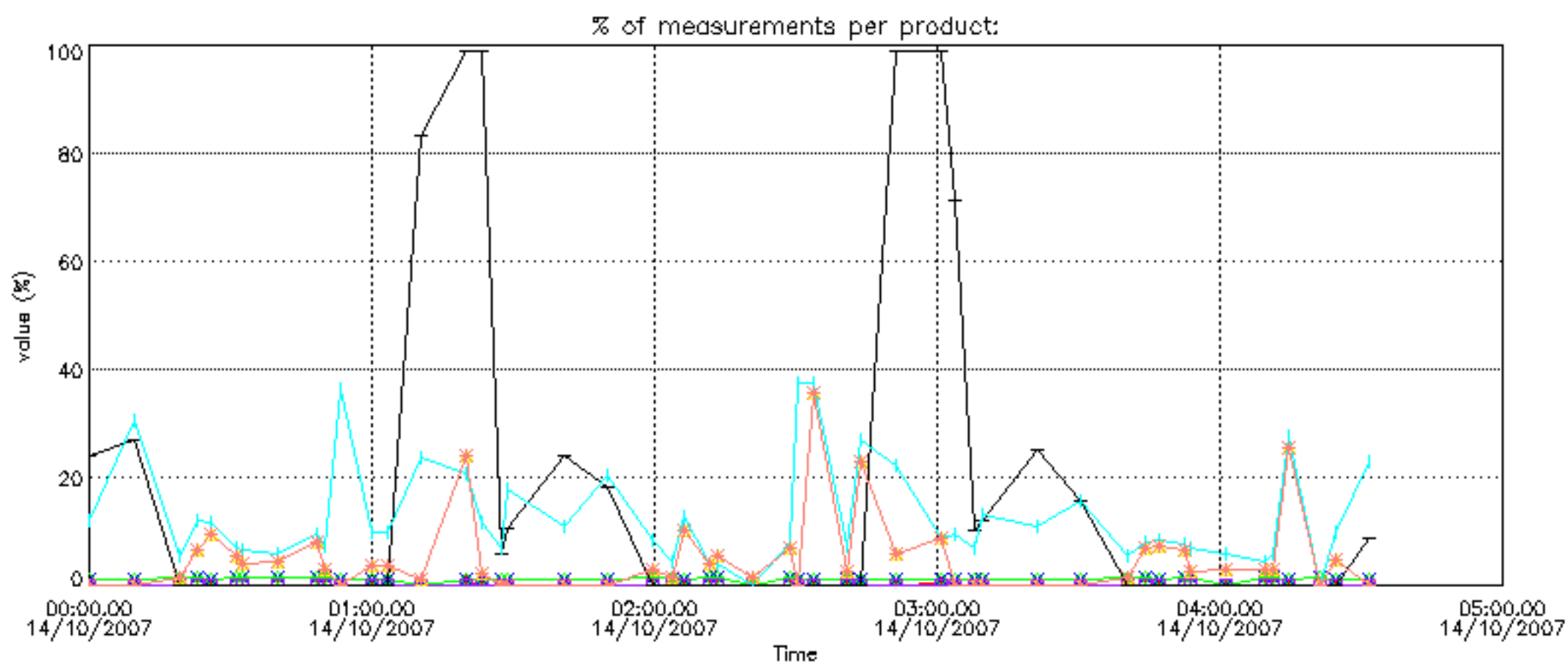
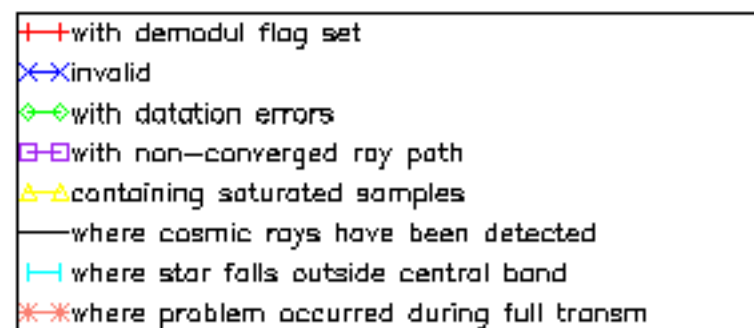
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071009_085337_20071008_000000_20100101_000000	1	14-OCT-2007 00:00:09
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	14-OCT-2007 00:00:09
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-OCT-2007 00:00:09
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	14-OCT-2007 00:00:09
ECMWF_FILE	AUX_ECF_AXNECM20071013_061116_20071013_210000_20071014_090000	1	14-OCT-2007 00:00:09
ECMWF_FILE	AUX_ECF_AXNECM20071013_180120_20071014_030000_20071014_150000	45	14-OCT-2007 04:09:32
OPTIONAL_ECMWF_FILE	MISSING	1	14-OCT-2007 00:00:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071013_214514_000060572062_00272_29384_4349.N1	1	14-OCT-2007 00:00:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071013_233130_000054192062_00273_29385_4350.N1	15	14-OCT-2007 01:20:08
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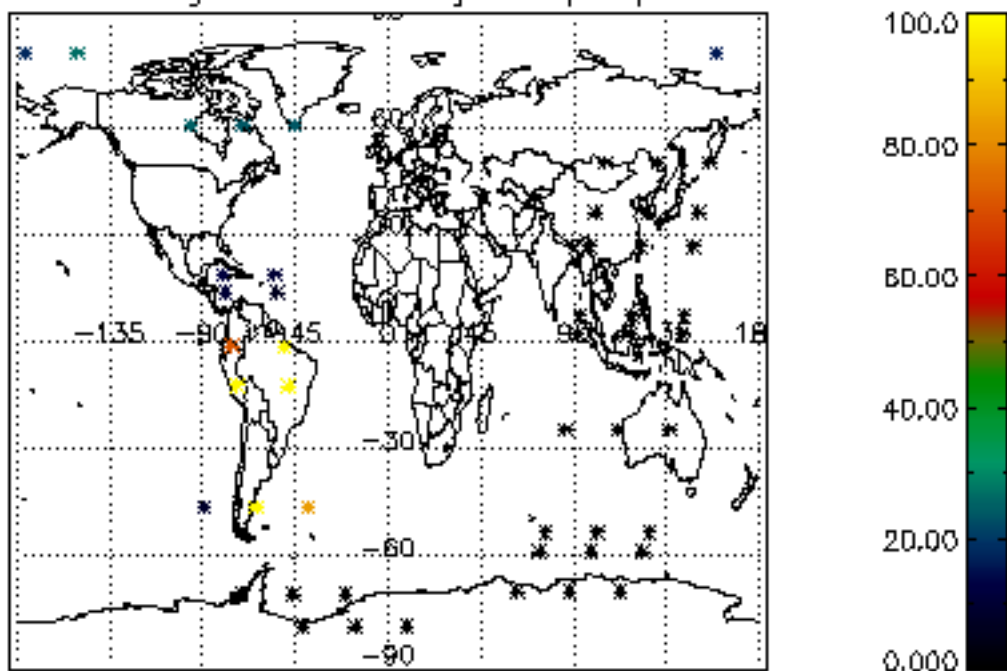




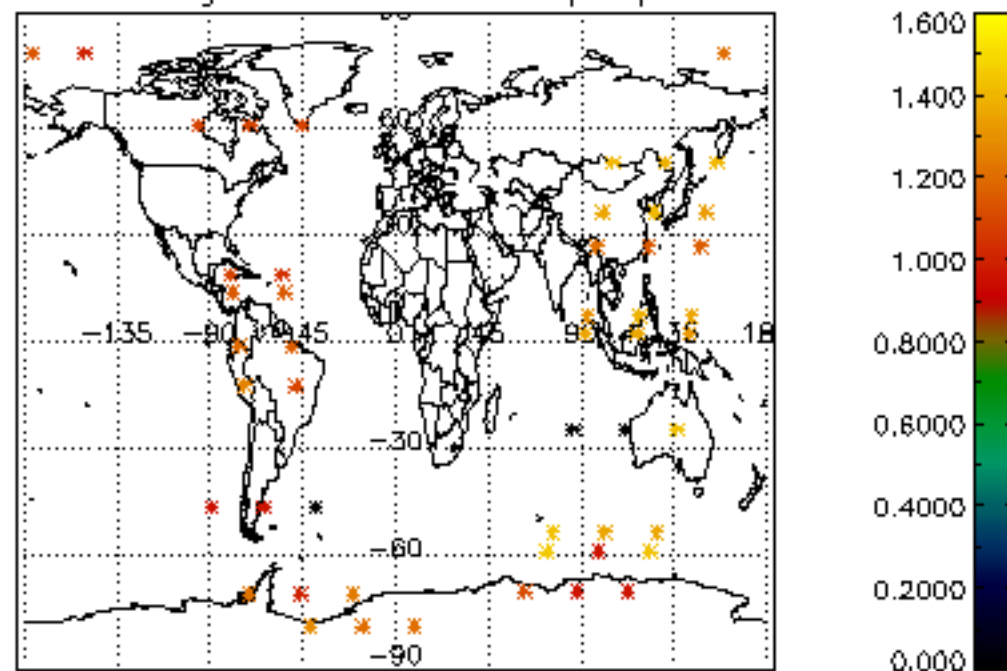




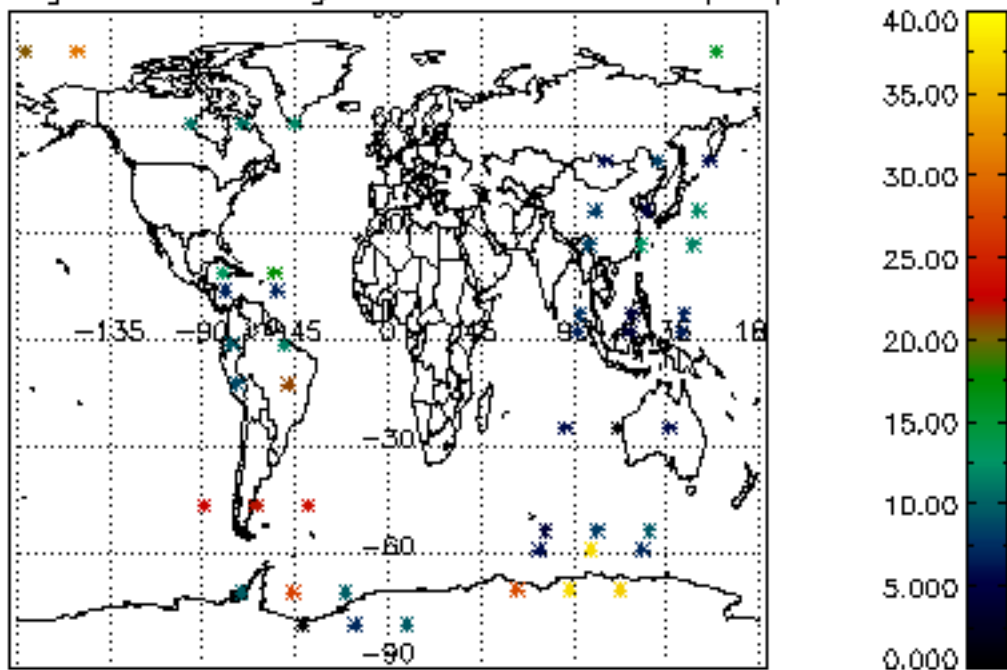
Percentage of cosmic ray hits per profile



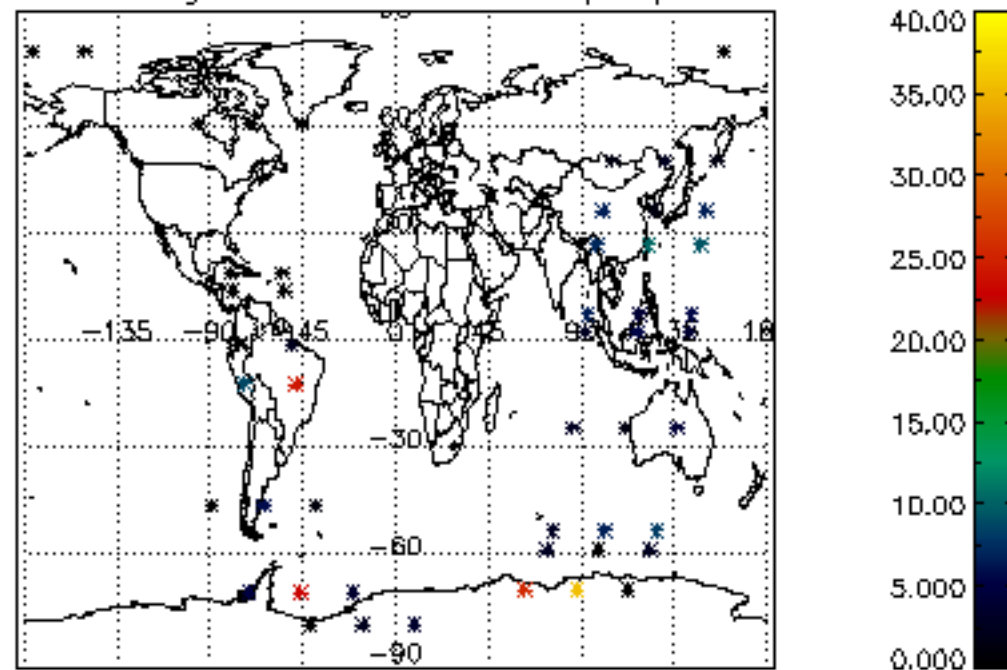
Percentage of datation errors per profile



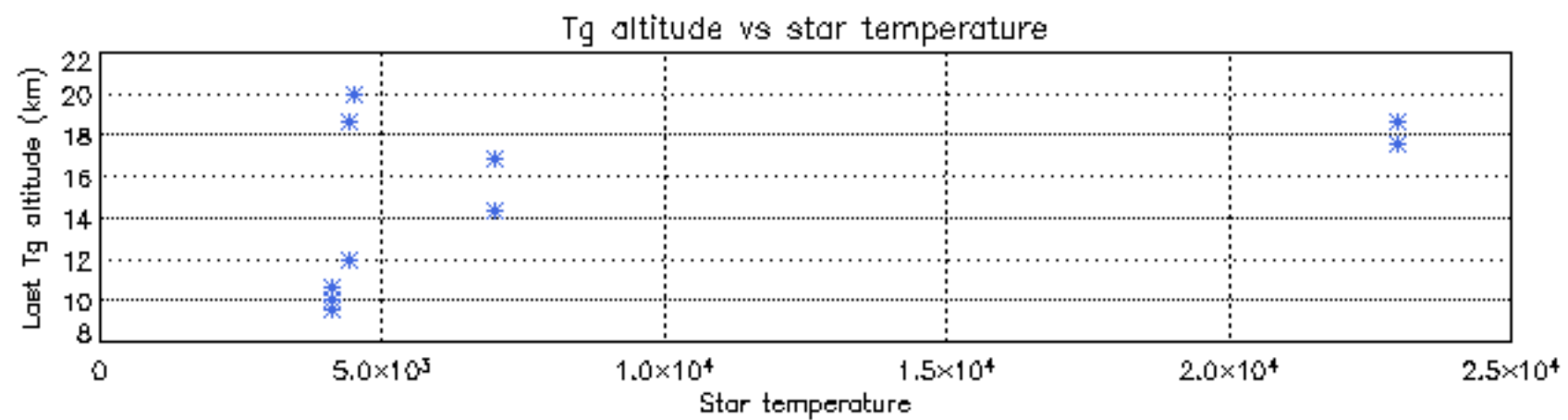
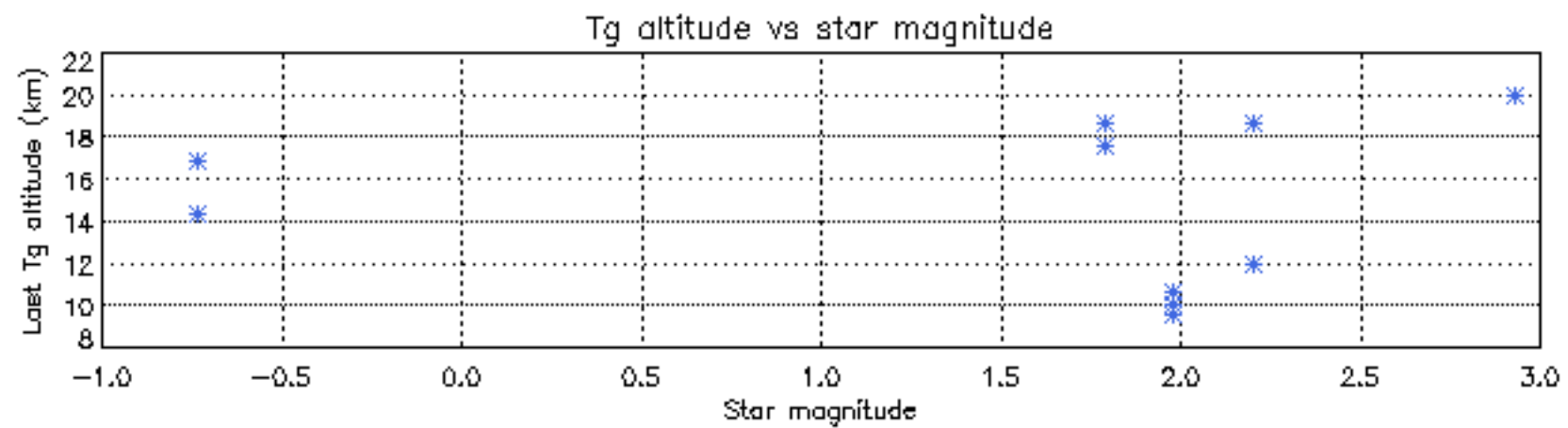
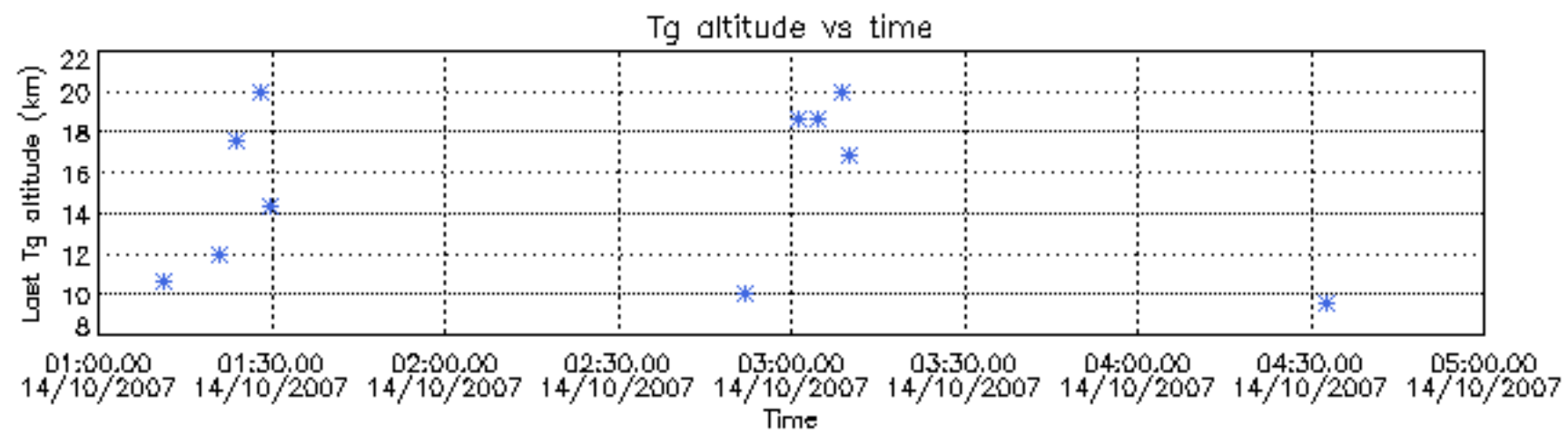
Percentage of star falling outside central band per profile



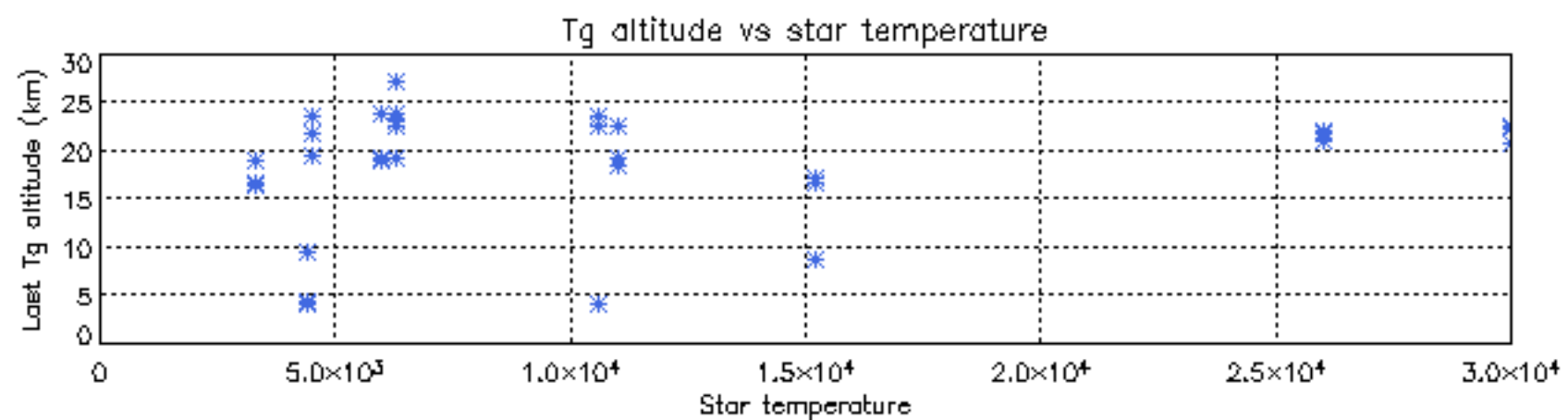
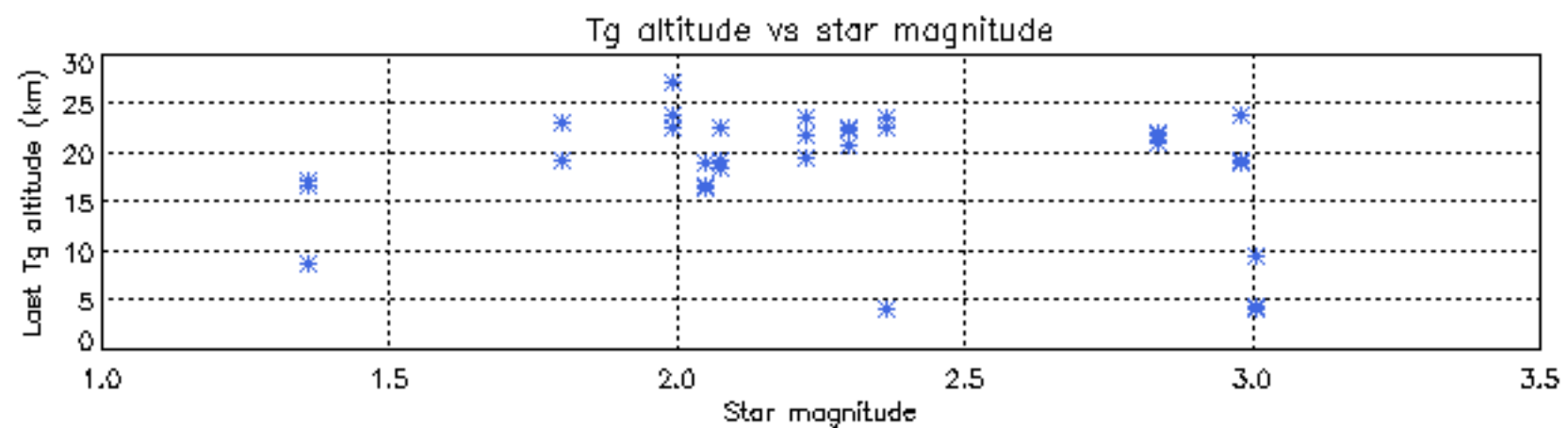
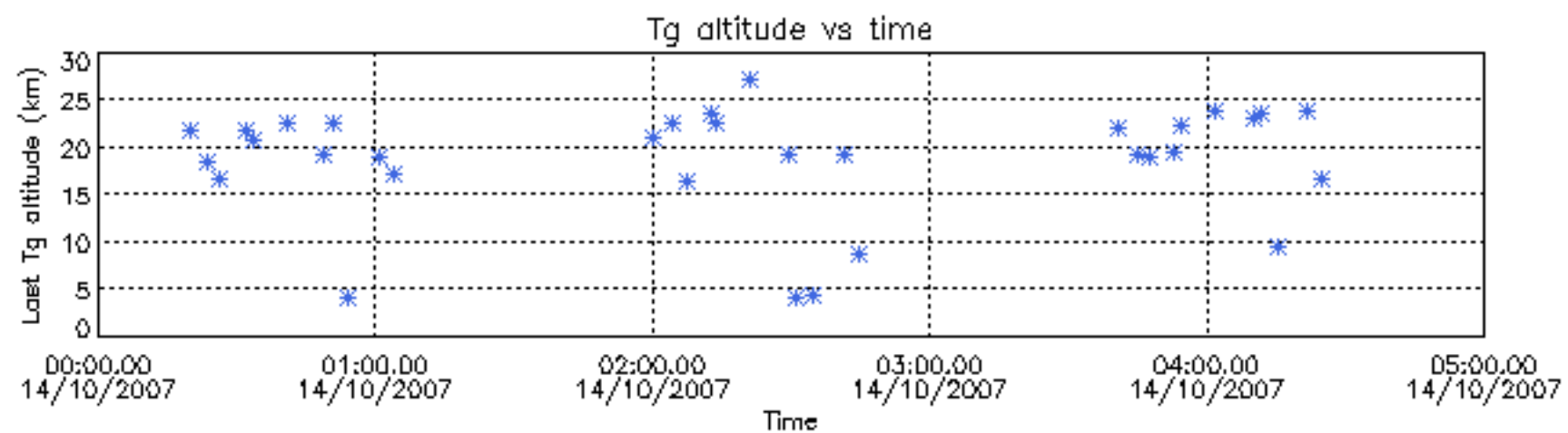
Percentage of saturation errors per profile

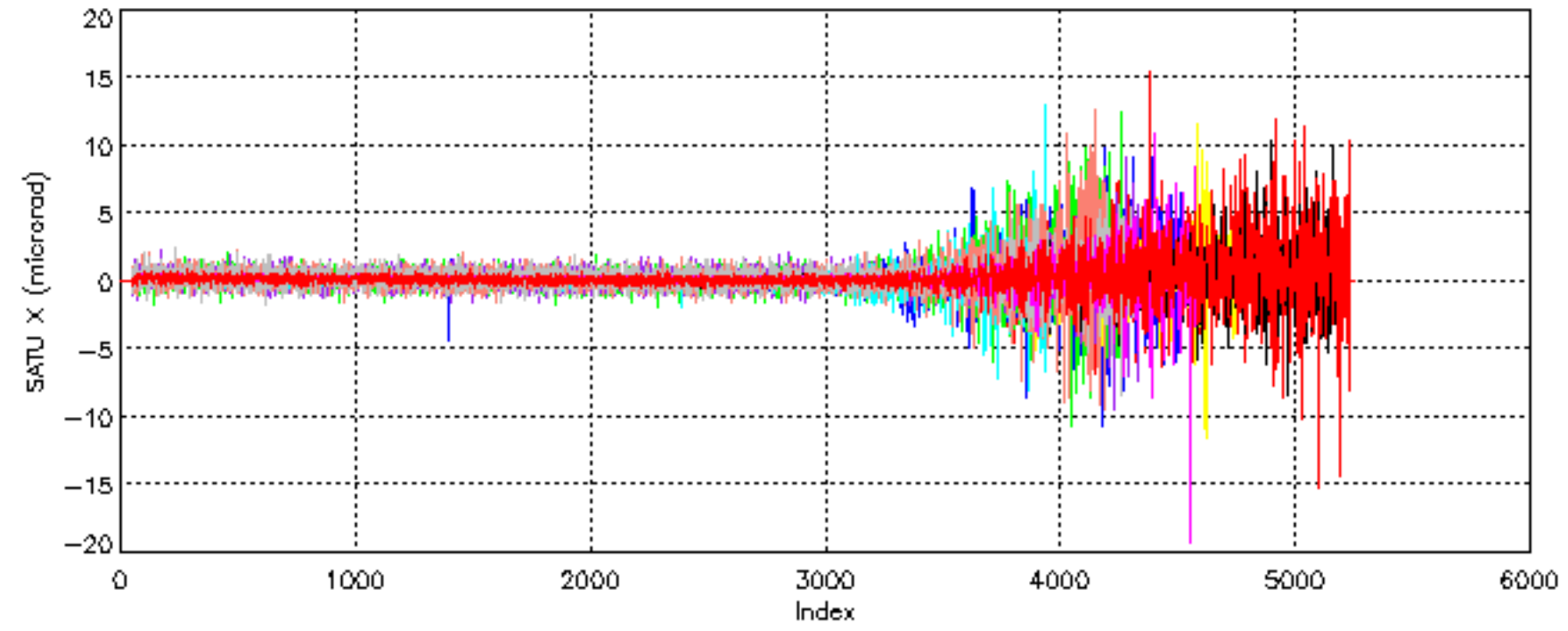


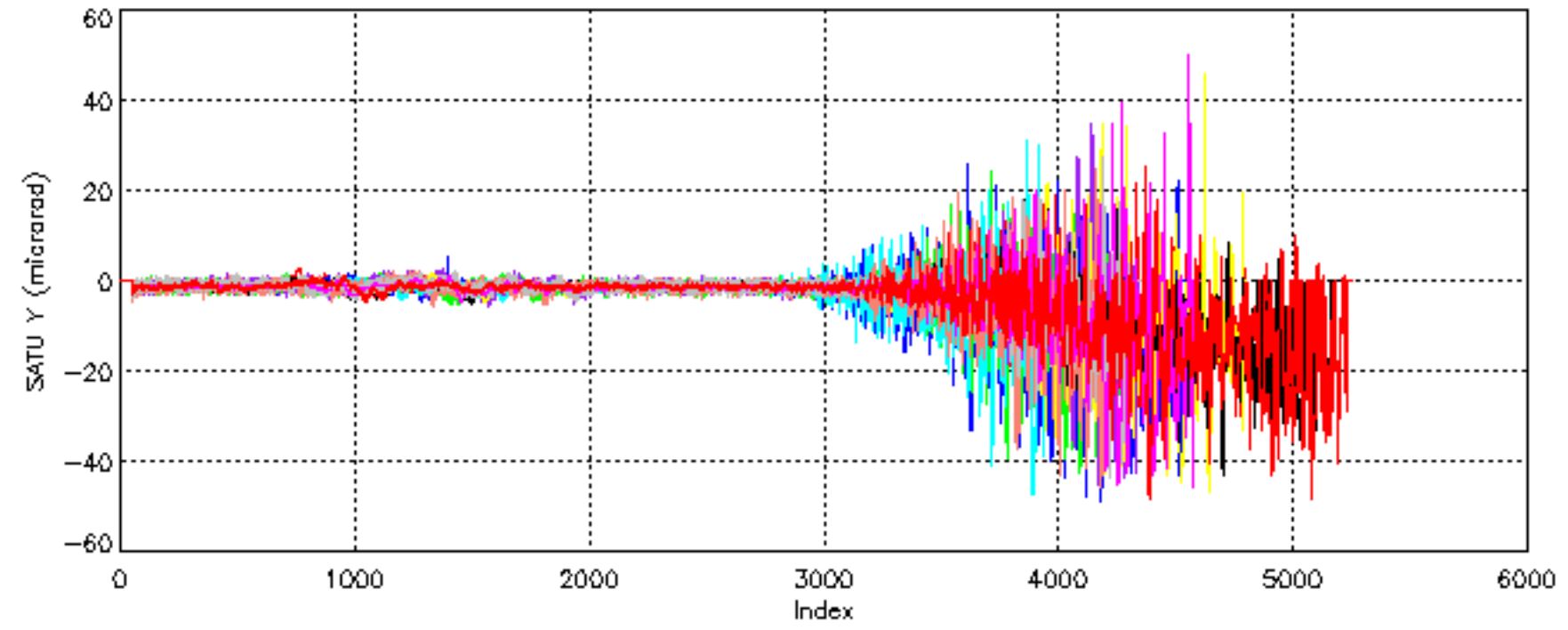
Tangent altitude at which the star is lost

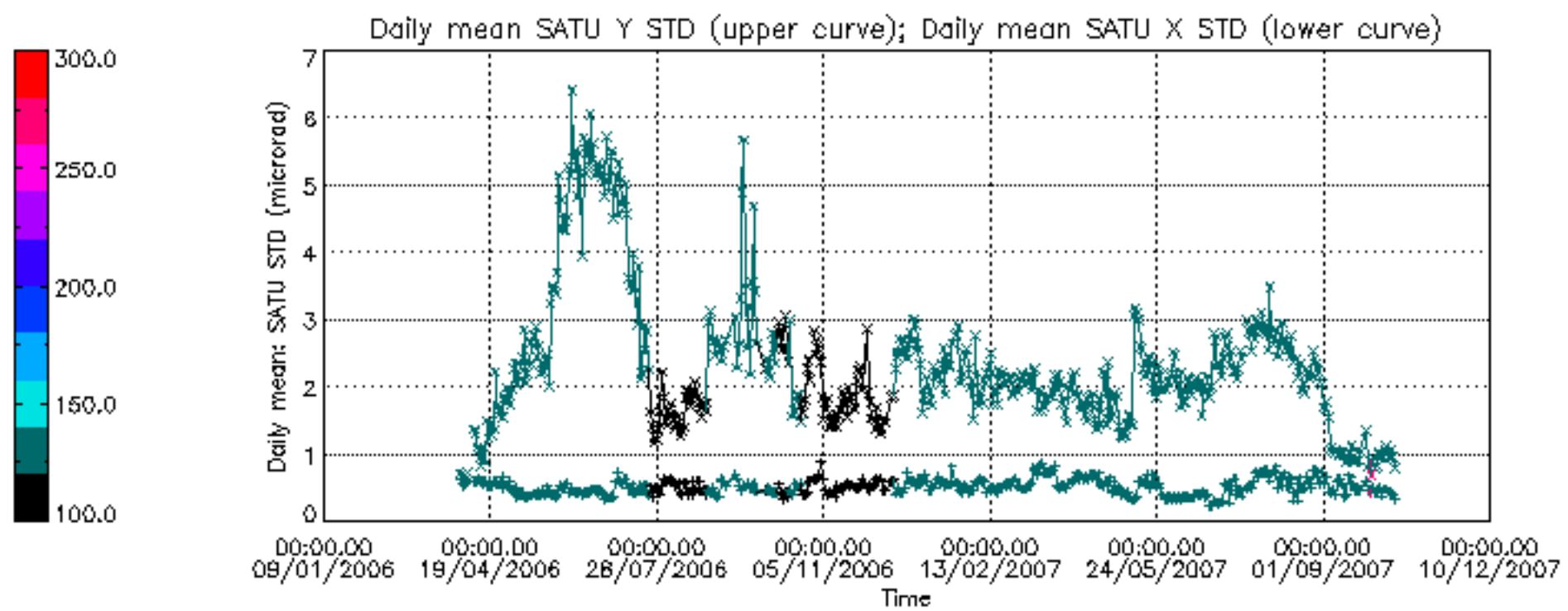


Tangent altitude at which the star is lost









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8; 94.1; 02-OCT-2007 04:23:23; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29217
9; 178.4; 02-OCT-2007 04:24:47; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;29217
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13; 1559.0; 02-OCT-2007 04:47:48; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;29217
14; 2168.3; 02-OCT-2007 04:57:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29217
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16; 2948.9; 02-OCT-2007 05:10:58; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29217
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3;-1446.1; 02-OCT-2007 05:38:19; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29217
4; -870.3; 02-OCT-2007 05:47:54; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;29217
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8; 94.9; 02-OCT-2007 06:04:00; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29218
9; 179.2; 02-OCT-2007 06:05:24; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29218
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16; 2948.6; 02-OCT-2007 06:51:33; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29218
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5; -289.4; 02-OCT-2007 07:38:11; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;29218
6; -212.3; 02-OCT-2007 07:39:28; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29218
7; -131.9; 02-OCT-2007 07:40:49; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29218
8; -32.8; 02-OCT-2007 07:42:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29218
9; 95.6; 02-OCT-2007 07:44:36; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29219
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11; 736.7; 02-OCT-2007 07:55:17; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29219
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2; 2168.4; 02-OCT-2007 08:19:09; Bright; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;29219
3; 2386.3; 02-OCT-2007 08:22:47; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29219
4; 2948.3; 02-OCT-2007 08:32:09; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;29219
5; 3428.4; 02-OCT-2007 08:40:09; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29219
6; 3906.9; 02-OCT-2007 08:48:08; Bright; 35.5; 36; 50Alp UMA ; 1.80; 6300;occ; 71; 0;29219
7; 3997.2; 02-OCT-2007 08:49:38; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29219
8; 4590.2; 02-OCT-2007 08:59:31; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29219
9; 5166.4; 02-OCT-2007 09:09:07; Dark ; 44.0; 48; 30Alp Hya ; 1.98; 4100;occ; 88; 0;29219

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 13; 6003.8; 02-OCT-2007 09:23:04; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29219
 14; 6132.3; 02-OCT-2007 09:25:13; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;29219
 15; 6216.6; 02-OCT-2007 09:26:37; Dark ; 60.0; 2; Alp Car ; -0.74; 7000;occ; 120; 0;29219
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 17; 6860.7; 02-OCT-2007 09:37:21; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29219
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 3; 2948.1; 02-OCT-2007 10:12:45; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;29220
 4; 3428.4; 02-OCT-2007 10:20:45; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29220
 5; 3907.0; 02-OCT-2007 10:28:44; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29220
 6; 3997.4; 02-OCT-2007 10:30:14; Bright; 42.0; 82; 48Bet UMa ; 2.37; 10600;occ; 84; 0;29220
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 9; 5747.3; 02-OCT-2007 10:59:24; Dark ; 42.0; 65; Lam Vel ; 2.20; 4400;occ; 84; 0;29220
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 11; 5905.1; 02-OCT-2007 11:02:02; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29220
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 13; 6133.0; 02-OCT-2007 11:05:50; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;29220
 14; 6217.3; 02-OCT-2007 11:07:14; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29220
 15; 6773.3; 02-OCT-2007 11:16:30; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29220
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 17; 7181.3; 02-OCT-2007 11:23:18; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;29220
 18; 7595.4; 02-OCT-2007 11:30:12; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;29220

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 3; 2947.8; 02-OCT-2007 11:53:20; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;29221
 4; 3428.3; 02-OCT-2007 12:01:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29221
 5; 3907.1; 02-OCT-2007 12:09:19; Bright; 52.0; 36; 50Alp UMa ; 1.80; 6300;occ; 104; 0;29221
 6; 3997.4; 02-OCT-2007 12:10:50; Bright; 43.5; 82; 48Bet UMa ; 2.37; 10600;occ; 87; 0;29221
 7; 4590.6; 02-OCT-2007 12:20:43; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29221
 8; 5167.3; 02-OCT-2007 12:30:20; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;29221
 9; 5747.6; 02-OCT-2007 12:40:00; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;29221
 10; 5825.6; 02-OCT-2007 12:41:18; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;29221
 11; 5905.7; 02-OCT-2007 12:42:38; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;29221
 12; 6005.3; 02-OCT-2007 12:44:18; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29221
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 6; 3907.2; 02-OCT-2007 13:49:55; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29222
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 8; 4590.7; 02-OCT-2007 14:01:19; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29222
 9; 5167.8; 02-OCT-2007 14:10:56; Dark ; 48.5; 48; 30Alp Hya ; 1.98; 4100;occ; 97; 0;29222
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 16; 6774.2; 02-OCT-2007 14:37:42; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29222
 17; 6861.9; 02-OCT-2007 14:39:10; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;29222
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 8; 3998.0; 02-OCT-2007 20:33:50; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29226
 9; 4591.5; 02-OCT-2007 20:43:44; Bright; 33.5; 166; 17Eps Leo ; 2.98; 6000;occ; 67; 0;29226

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 5; 101.6; 02-OCT-2007 21:09:30; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29227
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 9; 1147.1; 02-OCT-2007 21:26:55; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29227
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 13; 2946.4; 02-OCT-2007 21:56:54; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;29227
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 16; 3998.0; 02-OCT-2007 22:14:26; Bright; 44.0; 82; 48Bet UMa ; 2.37; 10600;occ; 88; 0;29227
 17; 4591.7; 02-OCT-2007 22:24:20; Bright; 54.0; 166; 17Eps Leo ; 2.98; 6000;occ; 108; 0;29227
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 4; 102.4; 02-OCT-2007 22:50:06; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;29228
 5; 186.7; 02-OCT-2007 22:51:31; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29228
 6; 740.1; 02-OCT-2007 23:00:44; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29228
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 13; 3428.1; 02-OCT-2007 23:45:32; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29228
 14; 3907.8; 02-OCT-2007 23:53:32; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29228
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 16; 4591.9; 03-OCT-2007 00:04:56; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29228
 17; 5170.1; 03-OCT-2007 00:14:34; Dark ; 44.5; 48; 30Alp Hya ; 1.98; 4100;occ; 89; 0;29228

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 3; 2386.5; 02-OCT-2007 15:05:11; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;29223
 4; 2947.4; 02-OCT-2007 15:14:32; Bright; 35.0; 74; 11Bet Cas ; 2.27; 6600;occ; 70; 0;29223
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 6; 3907.4; 02-OCT-2007 15:30:32; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29223
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 8; 4591.2; 02-OCT-2007 15:41:55; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29223
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 10; 5748.6; 02-OCT-2007 16:01:13; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;29223
 11; 5827.1; 02-OCT-2007 16:02:31; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;29223
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 13; 6006.9; 02-OCT-2007 16:05:31; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29223
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 17; 6862.4; 02-OCT-2007 16:19:47; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;29223
 18; 7182.4; 02-OCT-2007 16:25:07; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29223

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 2; 1559.9; 02-OCT-2007 16:32:00; Dark ; 50.5; 52; 16Bet Cet ; 2.04; 4500;occ; 101; 0;29224

3; 2168.7; 02-OCT-2007 16:42:09; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29224
 4; 2386.5; 02-OCT-2007 16:45:47; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29224
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 7; 3907.5; 02-OCT-2007 17:11:08; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;29224
 8; 3997.8; 02-OCT-2007 17:12:38; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;29224
 9; 4591.4; 02-OCT-2007 17:22:32; Bright; 54.0; 166; 17Eps Leo ; 2.98; 6000;occ; 108; 0;29224
 10; 5168.6; 02-OCT-2007 17:32:09; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;29224
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 13; 5907.6; 02-OCT-2007 17:44:28; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;29224
 14; 6007.7; 02-OCT-2007 17:46:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29224
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 16; 6220.5; 02-OCT-2007 17:49:41; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;29224
 17; 6775.0; 02-OCT-2007 17:58:55; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29224
 18; 6862.7; 02-OCT-2007 18:00:23; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29224

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 3; 2168.8; 02-OCT-2007 18:22:45; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;29225
 4; 2386.5; 02-OCT-2007 18:26:23; Bright; 36.5; 93; 53Bet Peg ; 2.52; 3100;occ; 73; 0;29225
 5; 2946.9; 02-OCT-2007 18:35:43; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;29225
 6; 3428.3; 02-OCT-2007 18:43:45; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29225
 7; 3907.5; 02-OCT-2007 18:51:44; Bright; 33.5; 36; 50Alp UMa ; 1.80; 6300;occ; 67; 0;29225
 8; 3997.9; 02-OCT-2007 18:53:14; Bright; 41.0; 82; 48Bet UMa ; 2.37; 10600;occ; 82; 0;29225
 9; 4591.5; 02-OCT-2007 19:03:08; Bright; 48.5; 166; 17Eps Leo ; 2.98; 6000;occ; 97; 0;29225
 10; 5169.0; 02-OCT-2007 19:12:45; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29225
 11; 5749.3; 02-OCT-2007 19:22:26; Dark ; 50.0; 65; Lam Vel ; 2.20; 4400;occ; 100; 0;29225
 12; 5828.5; 02-OCT-2007 19:23:45; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0;29225
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 17; 6775.3; 02-OCT-2007 19:39:31; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29225
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 3; -25.3; 03-OCT-2007 00:28:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29228
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 5; 103.9; 03-OCT-2007 02:11:20; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29230
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 7; 740.9; 03-OCT-2007 02:21:57; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29230
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 9; 1147.8; 03-OCT-2007 02:28:44; Dark ; 39.0; 84; Alp Phe ; 2.40; 4500;occ; 78; 0;29230
 10; 2169.2; 03-OCT-2007 02:45:45; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;29230
 11; 2386.5; 03-OCT-2007 02:49:22; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29230
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6; -124.9; 03-OCT-2007 03:48:07; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;29230
7; -23.7; 03-OCT-2007 03:49:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29230
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11; 829.0; 03-OCT-2007 04:04:01; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;29231
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13; 2169.5; 03-OCT-2007 04:26:21; Bright; 35.5; 90; 54Alp Peg ; 2.49; 11000;occ; 71; 0;29231
14; 2386.7; 03-OCT-2007 04:29:58; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29231
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 11; 2386.9; 04-OCT-2007 00:37:10; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29243
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 9; 5752.6; 03-OCT-2007 08:47:16; Dark ; 44.5; 65; Lam Vel ; 2.20; 4400;occ; 89; 0;29233
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 11; 6014.5; 03-OCT-2007 08:51:38; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29233
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3; -1834.9; 07-OCT-2007 02:53:45; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29287
4; -1431.9; 07-OCT-2007 03:00:28; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29287
5; -1244.9; 07-OCT-2007 03:03:35; Bright; 34.5; 22; 32Alp Leo ; 1.36; 15200;occ; 69; 0;29287
6; -839.0; 07-OCT-2007 03:10:21; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29287
7; -259.7; 07-OCT-2007 03:20:00; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;29287
8; -161.8; 07-OCT-2007 03:21:38; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29287
9; -64.8; 07-OCT-2007 03:23:15; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;29287
10; 21.0; 07-OCT-2007 03:24:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29288
11; 149.1; 07-OCT-2007 03:26:49; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29288
12; 233.2; 07-OCT-2007 03:28:13; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;29288
13; 762.0; 07-OCT-2007 03:37:02; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29288
14; 849.6; 07-OCT-2007 03:38:29; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29288
15; 1163.0; 07-OCT-2007 03:43:43; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29288
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18; 2390.1; 07-OCT-2007 04:04:10; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29288
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4; -1431.7; 07-OCT-2007 04:41:04; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29288
5; -838.5; 07-OCT-2007 04:50:57; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29288
6; -259.4; 07-OCT-2007 05:00:36; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29288
7; -161.0; 07-OCT-2007 05:02:15; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;29288
8; -64.4; 07-OCT-2007 05:03:51; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29288
9; 21.8; 07-OCT-2007 05:05:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29289
10; 149.9; 07-OCT-2007 05:07:26; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29289

11; 234.0; 07-OCT-2007 05:08:50; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;29289
 12; 762.3; 07-OCT-2007 05:17:38; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29289
 13; 849.9; 07-OCT-2007 05:19:06; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;29289
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 15; 1569.0; 07-OCT-2007 05:31:05; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29289
 16; 2172.4; 07-OCT-2007 05:41:08; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29289
 17; 2390.2; 07-OCT-2007 05:44:46; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29289
 18; 2917.8; 07-OCT-2007 05:53:34; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29289
 19; 3002.8; 07-OCT-2007 05:54:59; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29289
 20; 3427.5; 07-OCT-2007 06:02:03; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29289

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 2; 158.7; 07-OCT-2007 23:34:10; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29300
 3; 242.6; 07-OCT-2007 23:35:34; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29300
 4; 766.1; 07-OCT-2007 23:44:17; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29300
 5; 853.5; 07-OCT-2007 23:45:45; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29300
 6; 1165.9; 07-OCT-2007 23:50:57; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29300
 7; 1570.4; 07-OCT-2007 23:57:41; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29300
 8; 2171.1; 08-OCT-2007 00:07:42; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29300
 9; 2391.1; 08-OCT-2007 00:11:22; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29300
 10; 2914.3; 08-OCT-2007 00:20:05; Bright; 38.0; 68; 18Alp Cas ; 2.22; 4500;occ; 76; 0;29300
 11; 2999.1; 08-OCT-2007 00:21:30; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29300
 12; 3427.4; 08-OCT-2007 00:28:38; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29300
 13; 3914.1; 08-OCT-2007 00:36:45; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29300
 14; 4005.7; 08-OCT-2007 00:38:17; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;29300
 15; 4202.6; 08-OCT-2007 00:41:34; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29300
 16; 4606.8; 08-OCT-2007 00:48:18; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;29300
 17; 4794.5; 08-OCT-2007 00:51:25; Bright; 35.0; 22; 32Alp Leo ; 1.36; 15200;occ; 70; 0;29300
 18; 5203.4; 08-OCT-2007 00:58:14; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29300

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 2; -2031.2; 07-OCT-2007 06:11:41; Bright; 32.0; 82; 48Bet UMa ; 2.37; 10600;occ; 64; 0;29289
 3; -1834.6; 07-OCT-2007 06:14:57; Bright; 33.5; 174; 52Psi UMa ; 3.00; 4400;occ; 67; 0;29289
 4; -1431.5; 07-OCT-2007 06:21:40; Bright; 36.5; 166; 17Eps Leo ; 2.98; 6000;occ; 73; 0;29289
 5; -838.0; 07-OCT-2007 06:31:34; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;29289
 6; -258.9; 07-OCT-2007 06:41:13; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29289
 7; -160.3; 07-OCT-2007 06:42:51; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;29289
 8; -64.0; 07-OCT-2007 06:44:28; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29289
 9; 22.6; 07-OCT-2007 06:45:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290
 10; 150.7; 07-OCT-2007 06:48:02; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29290
 11; 234.8; 07-OCT-2007 06:49:27; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;29290
 12; 762.8; 07-OCT-2007 06:58:15; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29290
 13; 850.2; 07-OCT-2007 06:59:42; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;29290
 14; 1163.5; 07-OCT-2007 07:04:55; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29290
 15; 1569.2; 07-OCT-2007 07:11:41; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29290

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 2; 2390.3; 07-OCT-2007 07:25:22; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29290
 3; 2917.5; 07-OCT-2007 07:34:09; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;29290
 4; 3002.4; 07-OCT-2007 07:35:34; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;29290
 5; 3427.6; 07-OCT-2007 07:42:39; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29290
 6; 3913.5; 07-OCT-2007 07:50:45; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29290
 7; 4004.9; 07-OCT-2007 07:52:17; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29290
 8; 4201.5; 07-OCT-2007 07:55:33; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29290
 9; 4604.7; 07-OCT-2007 08:02:16; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29290
 10; 5198.4; 07-OCT-2007 08:12:10; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;29290
 11; 5777.6; 07-OCT-2007 08:21:49; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29290
 12; 5876.5; 07-OCT-2007 08:23:28; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;29290
 13; 5972.4; 07-OCT-2007 08:25:04; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29290
 14; 6059.3; 07-OCT-2007 08:26:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290
 15; 6187.5; 07-OCT-2007 08:28:39; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;29290
 16; 6271.5; 07-OCT-2007 08:30:03; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29290
 17; 6799.0; 07-OCT-2007 08:38:51; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29290
 18; 6886.5; 07-OCT-2007 08:40:18; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;29290
 19; 7199.7; 07-OCT-2007 08:45:31; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29290
 20; 7605.3; 07-OCT-2007 08:52:17; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;29290

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 3; 2917.2; 07-OCT-2007 09:14:45; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29291
 4; 3002.2; 07-OCT-2007 09:16:10; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;29291
 5; 3427.5; 07-OCT-2007 09:23:15; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;29291
 6; 3913.3; 07-OCT-2007 09:31:21; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29291
 7; 4004.7; 07-OCT-2007 09:32:52; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29291
 8; 4201.6; 07-OCT-2007 09:36:09; Bright; 32.5; 174; 52Psi UMa ; 3.00; 4400;occ; 65; 0;29291
 9; 4604.9; 07-OCT-2007 09:42:53; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29291
 10; 5198.9; 07-OCT-2007 09:52:47; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29291
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 13; 5972.8; 07-OCT-2007 10:05:40; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29291
 14; 6060.1; 07-OCT-2007 10:07:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29291
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 17; 6799.4; 07-OCT-2007 10:19:27; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29291
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 19; 7199.9; 07-OCT-2007 10:26:08; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29291
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 3; 2390.5; 07-OCT-2007 10:46:34; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29292
 4; 2916.9; 07-OCT-2007 10:55:20; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29292
 5; 3001.8; 07-OCT-2007 10:56:45; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;29292
 6; 3427.5; 07-OCT-2007 11:03:51; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29292
 7; 3913.6; 07-OCT-2007 11:11:57; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29292
 8; 4005.0; 07-OCT-2007 11:13:29; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29292
 9; 4201.6; 07-OCT-2007 11:16:45; Bright; 32.0; 174; 52Psi UMa ; 3.00; 4400;occ; 64; 0;29292
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 17; 6189.0; 07-OCT-2007 11:49:53; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29292
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 19; 6799.6; 07-OCT-2007 12:00:03; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29292
 20; 6887.2; 07-OCT-2007 12:01:31; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;29292
 21; 7200.1; 07-OCT-2007 12:06:44; Dark ; 37.0; 84; Alp Phe ; 2.40; 4500;occ; 74; 0;29292

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 3; 2390.6; 07-OCT-2007 12:27:10; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29293
 4; 2916.6; 07-OCT-2007 12:35:56; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29293
 5; 3001.5; 07-OCT-2007 12:37:21; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29293
 6; 3427.5; 07-OCT-2007 12:44:27; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29293
 7; 3913.6; 07-OCT-2007 12:52:33; Bright; 33.5; 36; 50Alp UMa ; 1.80; 6300;occ; 67; 0;29293
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 9; 4201.8; 07-OCT-2007 12:57:21; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29293
 10; 4605.5; 07-OCT-2007 13:04:05; Bright; 38.0; 166; 17Eps Leo ; 2.98; 6000;occ; 76; 0;29293
 11; 4792.7; 07-OCT-2007 13:07:12; Bright; 54.0; 22; 32Alp Leo ; 1.36; 15200;occ; 108; 0;29293
 12; 5199.8; 07-OCT-2007 13:13:59; Dark ; 49.5; 48; 30Alp Hya ; 1.98; 4100;occ; 99; 0;29293
 13; 5778.9; 07-OCT-2007 13:23:38; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;29293
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 16; 6061.7; 07-OCT-2007 13:28:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29293
 17; 6189.8; 07-OCT-2007 13:30:29; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29293
 18; 6273.8; 07-OCT-2007 13:31:53; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29293
 19; 6799.9; 07-OCT-2007 13:40:39; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29293
 20; 6887.5; 07-OCT-2007 13:42:07; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29293
 21; 7200.3; 07-OCT-2007 13:47:20; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;29293

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 4; 2916.3; 07-OCT-2007 14:16:32; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29294

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9; 3919.9; 22-OCT-2007 15:02:00; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0;29509
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14; 5906.1; 22-OCT-2007 15:35:06; Dark ; 55.5; 65; Lam Vel ; 2.20; 4400;occ; 111; 0;29509
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16; 6083.5; 22-OCT-2007 15:38:03; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29509
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9; 3919.8; 22-OCT-2007 16:42:35; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0;29510
10; 4014.4; 22-OCT-2007 16:44:10; Bright; 36.5; 82; 48Bet UMA ; 2.37; 10600;occ; 73; 0;29510

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 23; 6950.8; 22-OCT-2007 20:54:18; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29512

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 7; 830.2; 23-OCT-2007 00:14:06; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29515
 8; 915.3; 23-OCT-2007 00:15:31; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;29515
 9; 1089.7; 23-OCT-2007 00:18:25; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29515
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 13; 2529.8; 23-OCT-2007 00:42:25; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;29515
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 12; 830.9; 23-OCT-2007 05:15:54; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29518
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 3; 2408.0; 24-OCT-2007 10:12:22; Bright; 37.0; 58; 21Alp And ; 2.07; 11000;occ; 74; 0;29535
 4; 2526.3; 24-OCT-2007 10:14:20; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29535
 5; 2871.2; 24-OCT-2007 10:20:05; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29535
 6; 2948.1; 24-OCT-2007 10:21:22; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29535
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 9; 3918.9; 24-OCT-2007 10:37:33; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29535
 10; 4014.0; 24-OCT-2007 10:39:08; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;29535
 11; 4225.6; 24-OCT-2007 10:42:39; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;29535
 12; 4645.9; 24-OCT-2007 10:49:40; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;29535
 13; 5822.7; 24-OCT-2007 11:09:17; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;29535
 14; 5924.6; 24-OCT-2007 11:10:59; Dark ; 52.5; 65; Lam Vel ; 2.20; 4400;occ; 105; 0;29535
 15; 6007.1; 24-OCT-2007 11:12:21; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29535
 16; 6098.7; 24-OCT-2007 11:13:53; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;29535
 17; 6209.3; 24-OCT-2007 11:15:43; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29535
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 19; 6956.1; 24-OCT-2007 11:28:10; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;29535

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6; 2947.5; 24-OCT-2007 17:03:45; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29539
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16; 6101.3; 24-OCT-2007 17:56:19; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29539
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5; 2870.8; 24-OCT-2007 18:43:04; Bright; 38.0; 68; 18Alp Cas ; 2.22; 4500;occ; 76; 0;29540
6; 2947.4; 24-OCT-2007 18:44:21; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;29540
7; 3424.7; 24-OCT-2007 18:52:18; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29540
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12; 4647.3; 24-OCT-2007 19:12:41; Bright; 41.5; 96; 68Del Leo ; 2.56; 9300;occ; 83; 0;29540
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15; 6010.6; 24-OCT-2007 19:35:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29540
16; 6101.8; 24-OCT-2007 19:36:55; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29540
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5; -209.3; 25-OCT-2007 07:16:32; Dark ; 39.0; 113; Mu Vel ; 2.69; 5000;occ; 78; 0;29547
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7; -20.7; 25-OCT-2007 07:19:40; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29547
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2; 2178.2; 26-OCT-2007 07:24:42; Bright; 34.5; 140; 88Gam Peg ; 2.83; 26000;occ; 69; 0;29562
3; 2411.3; 26-OCT-2007 07:28:35; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;29562
4; 2522.2; 26-OCT-2007 07:30:26; Bright; 36.5; 53; 43Bet And ; 2.05; 3300;occ; 73; 0;29562
5; 2869.4; 26-OCT-2007 07:36:13; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29562
6; 2945.1; 26-OCT-2007 07:37:29; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29562
7; 3424.6; 26-OCT-2007 07:45:29; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;29562
8; 3637.1; 26-OCT-2007 07:49:01; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;29562
9; 3918.1; 26-OCT-2007 07:53:42; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0;29562
10; 4013.6; 26-OCT-2007 07:55:18; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0;29562
11; 4227.0; 26-OCT-2007 07:58:51; Bright; 36.0; 174; 52Psi UMA ; 3.00; 4400;occ; 72; 0;29562
12; 4652.2; 26-OCT-2007 08:05:56; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;29562
13; 5831.5; 26-OCT-2007 08:25:35; Dark ; 39.0; 113; Mu Vel ; 2.69; 5000;occ; 78; 0;29562
14; 5945.0; 26-OCT-2007 08:27:29; Dark ; 40.0; 65; Lam Vel ; 2.20; 4400;occ; 80; 0;29562
15; 6025.5; 26-OCT-2007 08:28:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29562
16; 6123.8; 26-OCT-2007 08:30:28; Dark ; 37.0; 159; Ups Car ; 2.92; 7200;occ; 74; 0;29562
17; 6217.4; 26-OCT-2007 08:32:01; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;29562
18; 6877.7; 26-OCT-2007 08:43:02; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29562
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2; 2411.3; 26-OCT-2007 09:09:11; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;29563
3; 2522.1; 26-OCT-2007 09:11:02; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29563
4; 2869.3; 26-OCT-2007 09:16:49; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29563
5; 2945.0; 26-OCT-2007 09:18:05; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29563
6; 3424.6; 26-OCT-2007 09:26:04; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29563
7; 3637.3; 26-OCT-2007 09:29:37; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;29563
8; 3918.0; 26-OCT-2007 09:34:18; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0;29563
9; 4013.4; 26-OCT-2007 09:35:53; Bright; 37.5; 82; 48Bet UMA ; 2.37; 10600;occ; 75; 0;29563
10; 4227.1; 26-OCT-2007 09:39:27; Bright; 35.0; 174; 52Psi UMA ; 3.00; 4400;occ; 70; 0;29563

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 19; 7145.6; 26-OCT-2007 10:28:06; Dark ; 36.0; 157; The1Eri ; 2.91; 9300;occ; 72; 0;29563
 20; 7645.5; 26-OCT-2007 10:36:25; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;29563

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 6; 2944.7; 26-OCT-2007 10:58:40; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29564
 7; 3424.5; 26-OCT-2007 11:06:40; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29564
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 9; 3917.9; 26-OCT-2007 11:14:54; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29564
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 17; 6218.0; 26-OCT-2007 11:53:14; Dark ; 42.0; 29; Bet Car ; 1.67; 10200;occ; 84; 0;29564
 18; 6878.2; 26-OCT-2007 12:04:14; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29564
 19; 6962.7; 26-OCT-2007 12:05:38; Dark ; 41.0; 9; Alp Eri ; 0.45; 24000;occ; 82; 0;29564
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 5; 2869.2; 26-OCT-2007 12:38:01; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29565
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 7; 3424.6; 26-OCT-2007 12:47:16; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29565
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 9; 3917.9; 26-OCT-2007 12:55:30; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29565
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 12; 4652.8; 26-OCT-2007 13:07:44; Bright; 55.0; 96; 68Del Leo ; 2.56; 9300;occ; 110; 0;29565
 13; 5832.4; 26-OCT-2007 13:27:24; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;29565
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 15; 6027.5; 26-OCT-2007 13:30:39; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29565
 16; 6117.1; 26-OCT-2007 13:32:09; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;29565
 17; 6218.3; 26-OCT-2007 13:33:50; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29565
 18; 6878.3; 26-OCT-2007 13:44:50; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29565
 19; 6962.8; 26-OCT-2007 13:46:14; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;29565
 20; 7146.5; 26-OCT-2007 13:49:18; Dark ; 38.5; 157; The1Eri ; 2.91; 9300;occ; 77; 0;29565

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 6; 2944.6; 26-OCT-2007 14:19:52; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29566
 7; 3424.6; 26-OCT-2007 14:27:52; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;29566
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 9; 3917.9; 26-OCT-2007 14:36:05; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29566
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 11; 4227.3; 26-OCT-2007 14:41:15; Bright; 55.0; 174; 52Psi UMa ; 3.00; 4400;occ; 110; 0;29566
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18; 6878.7; 26-OCT-2007 15:25:26; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29566
19; 6963.0; 26-OCT-2007 15:26:50; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;29566
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 3; 2411.9; 26-OCT-2007 15:51:35; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29567
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11; 4227.5; 26-OCT-2007 16:21:51; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29567
12; 4653.4; 26-OCT-2007 16:28:57; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;29567
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15; 6029.0; 26-OCT-2007 16:51:52; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29567
16; 6118.4; 26-OCT-2007 16:53:22; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;29567
17; 6219.0; 26-OCT-2007 16:55:02; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;29567
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 4; 2521.5; 26-OCT-2007 17:34:01; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;29568
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 6; 2944.3; 26-OCT-2007 17:41:04; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29568
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 9; 3917.9; 26-OCT-2007 17:57:17; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29568
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12; 4653.4; 26-OCT-2007 18:09:33; Bright; 39.0; 96; 68Del Leo ; 2.56; 9300;occ; 78; 0;29568
13; 5833.5; 26-OCT-2007 18:29:13; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;29568
14; 6029.7; 26-OCT-2007 18:32:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29568
15; 6119.0; 26-OCT-2007 18:33:59; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29568
16; 6219.3; 26-OCT-2007 18:35:39; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29568
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11; 3638.5; 26-OCT-2007 19:33:14; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;29569
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13; 4013.2; 26-OCT-2007 19:39:29; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;29569
14; 4227.2; 26-OCT-2007 19:43:03; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;29569
15; 4653.8; 26-OCT-2007 19:50:09; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;29569
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18; 6126.0; 26-OCT-2007 20:14:41; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;29569
19; 6219.5; 26-OCT-2007 20:16:15; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29569
20; 6879.3; 26-OCT-2007 20:27:15; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29569
21; 6963.6; 26-OCT-2007 20:28:39; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29569

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 2; 1112.1; 26-OCT-2007 20:31:44; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;29570
 3; 1610.6; 26-OCT-2007 20:40:02; Dark ; 39.5; 52; 16Bet Cet ; 2.04; 4500;occ; 79; 0;29570
 4; 2179.5; 26-OCT-2007 20:49:31; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29570
 5; 2412.0; 26-OCT-2007 20:53:23; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29570
 6; 2521.1; 26-OCT-2007 20:55:13; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29570
 7; 2868.9; 26-OCT-2007 21:01:00; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;29570
 8; 2944.1; 26-OCT-2007 21:02:16; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29570
 9; 3424.3; 26-OCT-2007 21:10:16; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29570
 10; 3638.6; 26-OCT-2007 21:13:50; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;29570
 11; 3917.7; 26-OCT-2007 21:18:29; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29570
 12; 4013.3; 26-OCT-2007 21:20:05; Bright; 36.5; 82; 48Bet UMa ; 2.37; 10600;occ; 73; 0;29570
 13; 4227.3; 26-OCT-2007 21:23:39; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;29570
 14; 4653.9; 26-OCT-2007 21:30:45; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29570

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 4; 183.9; 26-OCT-2007 21:56:51; Dark ; 36.0; 29; Bet Car ; 1.67; 10200;occ; 72; 0;29571
 5; 843.6; 26-OCT-2007 22:07:51; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29571
 6; 927.8; 26-OCT-2007 22:09:15; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;29571
 7; 1112.4; 26-OCT-2007 22:12:20; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;29571
 8; 1610.7; 26-OCT-2007 22:20:38; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;29571
 9; 2179.5; 26-OCT-2007 22:30:07; Bright; 36.5; 140; 88Gam Peg ; 2.83; 26000;occ; 73; 0;29571
 10; 2412.2; 26-OCT-2007 22:34:00; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;29571
 11; 2520.9; 26-OCT-2007 22:35:48; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29571
 12; 2868.9; 26-OCT-2007 22:41:36; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29571
 13; 2944.0; 26-OCT-2007 22:42:51; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29571
 14; 3424.5; 26-OCT-2007 22:50:52; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29571
 15; 3638.8; 26-OCT-2007 22:54:26; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;29571
 16; 3917.5; 26-OCT-2007 22:59:05; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;29571
 17; 4012.9; 26-OCT-2007 23:00:40; Bright; 36.5; 82; 48Bet UMa ; 2.37; 10600;occ; 73; 0;29571
 18; 4227.3; 26-OCT-2007 23:04:15; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29571
 19; 4654.1; 26-OCT-2007 23:11:21; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29571

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 4; 184.1; 26-OCT-2007 23:37:27; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;29572
 5; 843.8; 26-OCT-2007 23:48:27; Dark ; 36.0; 143; Alp Hyi ; 2.86; 7200;occ; 72; 0;29572
 6; 928.1; 26-OCT-2007 23:49:51; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;29572
 7; 1112.9; 26-OCT-2007 23:52:56; Dark ; 41.5; 157; The1Eri ; 2.91; 9300;occ; 83; 0;29572
 8; 1611.0; 27-OCT-2007 00:01:14; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;29572
 9; 2179.6; 27-OCT-2007 00:10:43; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;29572
 10; 2412.3; 27-OCT-2007 00:14:35; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29572
 11; 2520.8; 27-OCT-2007 00:16:24; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 79; 0;29572
 12; 2868.9; 27-OCT-2007 00:22:12; Bright; 34.0; 68; 18Alp Cas ; 2.22; 4500;occ; 68; 0;29572
 13; 2943.9; 27-OCT-2007 00:23:27; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29572
 14; 3424.5; 27-OCT-2007 00:31:28; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;29572
 15; 3639.0; 27-OCT-2007 00:35:02; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;29572
 16; 3917.6; 27-OCT-2007 00:39:41; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29572
 17; 3996.8; 27-OCT-2007 00:41:00; Bright; 33.5; 32; 77Eps UMa ; 1.76; 11000;occ; 67; 0;29572
 18; 4227.6; 27-OCT-2007 00:44:51; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;29572
 19; 4654.2; 27-OCT-2007 00:51:57; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;29572

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 3; 91.0; 27-OCT-2007 01:16:30; Dark ; 36.5; 159; Ups Car ; 2.92; 7200;occ; 73; 0;29573
 4; 184.5; 27-OCT-2007 01:18:04; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;29573
 5; 844.0; 27-OCT-2007 01:29:03; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29573
 6; 928.2; 27-OCT-2007 01:30:27; Dark ; 38.5; 9; Alp Eri ; 0.45; 24000;occ; 77; 0;29573
 7; 1113.2; 27-OCT-2007 01:33:32; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;29573
 8; 1611.1; 27-OCT-2007 01:41:50; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;29573
 9; 2179.8; 27-OCT-2007 01:51:19; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29573
 10; 2412.5; 27-OCT-2007 01:55:12; Bright; 36.5; 58; 21Alp And ; 2.07; 11000;occ; 73; 0;29573
 11; 2520.6; 27-OCT-2007 01:57:00; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 79; 0;29573
 12; 2868.8; 27-OCT-2007 02:02:48; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29573


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14; 3424.4; 27-OCT-2007 02:12:03; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29573
15; 3639.2; 27-OCT-2007 02:15:38; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;29573
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2;-2118.5; 27-OCT-2007 02:20:16; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;29573
3;-2039.0; 27-OCT-2007 02:21:36; Bright; 35.5; 32; 77Eps UMa ; 1.76; 11000;occ; 71; 0;29573
4;-1808.3; 27-OCT-2007 02:25:27; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29573
5;-1381.2; 27-OCT-2007 02:32:34; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;29573
6; -200.7; 27-OCT-2007 02:52:14; Dark ; 37.5; 113; Mu Vel ; 2.69; 5000;occ; 75; 0;29573
7; -2.9; 27-OCT-2007 02:55:32; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29573
8; 91.4; 27-OCT-2007 02:57:06; Dark ; 36.0; 159; Ups Car ; 2.92; 7200;occ; 72; 0;29574
9; 184.9; 27-OCT-2007 02:58:40; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;29574
10; 844.3; 27-OCT-2007 03:09:39; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29574
11; 928.5; 27-OCT-2007 03:11:03; Dark ; 41.0; 9; Alp Eri ; 0.45; 24000;occ; 82; 0;29574
12; 1113.7; 27-OCT-2007 03:14:09; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;29574
13; 1611.3; 27-OCT-2007 03:22:26; Dark ; 43.5; 52; 16Bet Cet ; 2.04; 4500;occ; 87; 0;29574
14; 2180.2; 27-OCT-2007 03:31:55; Bright; 36.5; 140; 88Gam Peg ; 2.83; 26000;occ; 73; 0;29574
15; 2412.8; 27-OCT-2007 03:35:48; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29574
16; 2520.7; 27-OCT-2007 03:37:36; Bright; 37.5; 53; 43Bet And ; 2.05; 3300;occ; 75; 0;29574
17; 2868.8; 27-OCT-2007 03:43:24; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29574
18; 2943.8; 27-OCT-2007 03:44:39; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29574
19; 3424.5; 27-OCT-2007 03:52:39; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29574
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2;-2038.8; 27-OCT-2007 04:02:12; Bright; 52.0; 32; 77Eps UMa ; 1.76; 11000;occ; 104; 0;29574
3;-1808.3; 27-OCT-2007 04:06:03; Bright; 39.5; 174; 52Psi UMa ; 3.00; 4400;occ; 79; 0;29574
4;-1381.1; 27-OCT-2007 04:13:10; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;29574
5; -200.4; 27-OCT-2007 04:32:51; Dark ; 41.0; 113; Mu Vel ; 2.69; 5000;occ; 82; 0;29574
6; -2.2; 27-OCT-2007 04:36:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29574
7; 91.8; 27-OCT-2007 04:37:43; Dark ; 37.0; 159; Ups Car ; 2.92; 7200;occ; 74; 0;29575
8; 185.1; 27-OCT-2007 04:39:16; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29575
9; 844.5; 27-OCT-2007 04:50:15; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29575
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16; 2868.8; 27-OCT-2007 05:24:00; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29575
17; 2943.7; 27-OCT-2007 05:25:15; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29575
18; 3424.5; 27-OCT-2007 05:33:15; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29575
19; 3639.6; 27-OCT-2007 05:36:51; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29575
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4;-1380.7; 27-OCT-2007 07:34:22; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;29576
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6; 12.2; 27-OCT-2007 07:57:35; Dark ; 38.5; 91; Kap Vel ; 2.49; 26000;occ; 77; 0;29577
7; 92.5; 27-OCT-2007 07:58:55; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;29577
8; 185.8; 27-OCT-2007 08:00:29; Dark ; 46.0; 29; Bet Car ; 1.67; 10200;occ; 92; 0;29577
9; 427.9; 27-OCT-2007 08:04:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29577
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3; 2413.2; 27-OCT-2007 08:37:36; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;29577
4; 2520.2; 27-OCT-2007 08:39:23; Bright; 36.5; 53; 43Bet And ; 2.05; 3300;occ; 73; 0;29577
5; 2868.7; 27-OCT-2007 08:45:12; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;29577
6; 2943.5; 27-OCT-2007 08:46:26; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;29577
7; 3424.5; 27-OCT-2007 08:54:27; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29577
8; 3640.0; 27-OCT-2007 08:58:03; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29577
9; 3917.2; 27-OCT-2007 09:02:40; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29577

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12; 4655.5; 27-OCT-2007 09:14:58; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;29577
13; 5836.5; 27-OCT-2007 09:34:39; Dark ; 38.5; 113; Mu Vel ; 2.69; 5000;occ; 77; 0;29577
14; 6048.6; 27-OCT-2007 09:38:12; Dark ; 38.5; 91; Kap Vel ; 2.49; 26000;occ; 77; 0;29577
15; 6221.9; 27-OCT-2007 09:41:05; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29577
16; 6464.2; 27-OCT-2007 09:45:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29577
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18; 6965.2; 27-OCT-2007 09:53:28; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;29577
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3; 2520.1; 27-OCT-2007 10:19:59; Bright; 36.0; 53; 43Bet And ; 2.05; 3300;occ; 72; 0;29578
4; 2868.6; 27-OCT-2007 10:25:47; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29578
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6; 3640.2; 27-OCT-2007 10:38:39; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;29578
7; 3917.1; 27-OCT-2007 10:43:16; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;29578
8; 3997.7; 27-OCT-2007 10:44:36; Bright; 36.0; 32; 77Eps UMa ; 1.76; 11000;occ; 72; 0;29578
9; 4227.8; 27-OCT-2007 10:48:27; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;29578
10; 4655.6; 27-OCT-2007 10:55:34; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;29578
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12; 6049.1; 27-OCT-2007 11:18:48; Dark ; 38.0; 91; Kap Vel ; 2.49; 26000;occ; 76; 0;29578
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2; 175.4; 27-OCT-2007 13:02:06; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;29580
3; 280.9; 27-OCT-2007 13:03:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29580
4; 468.6; 27-OCT-2007 13:06:59; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;29580
5; 1116.1; 27-OCT-2007 13:17:47; Dark ; 41.5; 157; The1Eri ; 2.91; 9300;occ; 83; 0;29580
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3; 2674.3; 29-OCT-2007 12:40:31; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;29608

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6; 3424.2; 29-OCT-2007 12:53:01; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29608
7; 3915.4; 29-OCT-2007 13:01:12; Bright; 35.0; 36; 50Alp UMa ; 1.80; 6300;occ; 70; 0;29608
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6; 3424.3; 29-OCT-2007 14:33:37; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;29609
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