

GOMOS Daily Report 05-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	08OCT2007 13:52:36
Data source version	GOMOS/5.00
Start time of products	05-10-2007 (05OCT2007 00:00:00)
Stop time of products	06-10-2007 (06OCT2007 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)

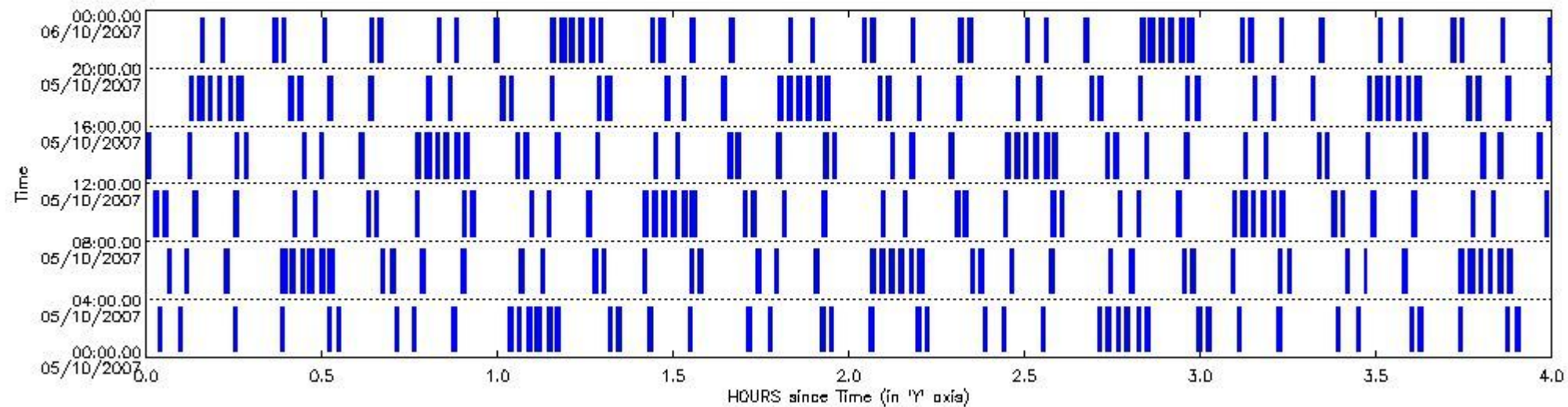
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

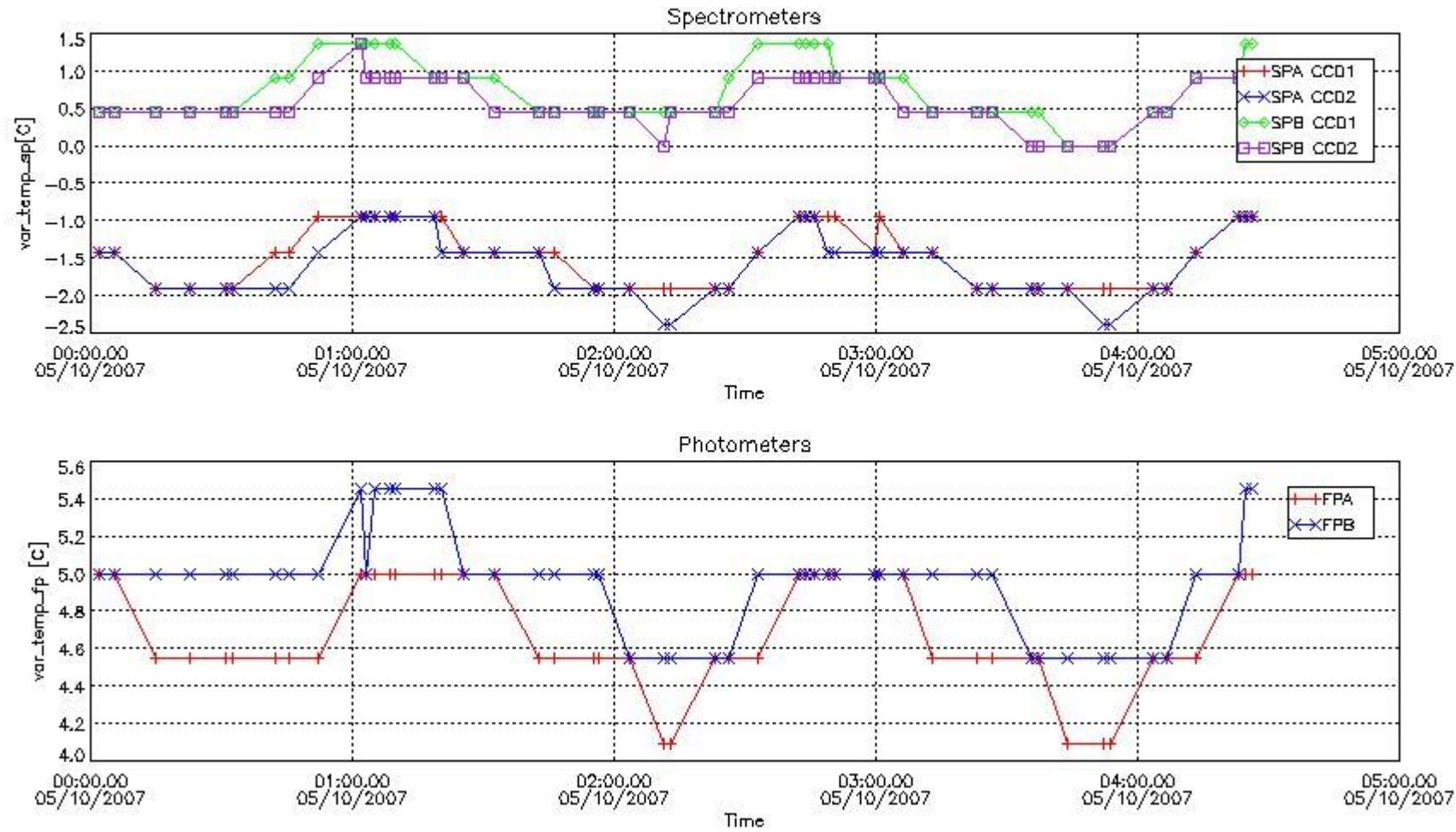
No missing products.

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_1PNPDE20071005_000157_000000352062_00145_29257_0835.N1	05-OCT-2007 00:01:57	Bright	35.000	90	54Alp Peg	2.4870	11000.	70	29257	No
2	GOM_TRA_1PNPDE20071005_000534_000000382062_00145_29257_0836.N1	05-OCT-2007 00:05:34	Bright	37.500	93	53Bet Peg	2.5200	3100.0	75	29257	No
3	GOM_TRA_1PNPDE20071005_001446_000000372062_00145_29257_0837.N1	05-OCT-2007 00:14:46	Bright	37.000	74	11Bet Cas	2.2680	6600.0	74	29257	No
4	GOM_TRA_1PNPDE20071005_002254_000000362062_00145_29257_0838.N1	05-OCT-2007 00:22:54	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29257	No
5	GOM_TRA_1PNPDE20071005_003057_000000372062_00145_29257_0839.N1	05-OCT-2007 00:30:57	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29257	No
6	GOM_TRA_1PNPDE20071005_003227_000000362062_00145_29257_0840.N1	05-OCT-2007 00:32:27	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	29257	No
7	GOM_TRA_1PNPDE20071005_004224_000000372062_00145_29257_0841.N1	05-OCT-2007 00:42:24	Bright	37.000	166	17Eps Leo	2.9800	6000.0	74	29257	No
8	GOM_TRA_1PNPDE20071005_004529_000000352062_00145_29257_0842.N1	05-OCT-2007 00:45:29	Bright	35.000	22	32Alp Leo	1.3600	15200.	70	29257	No
9	GOM_TRA_1PNPDE20071005_005209_000000462062_00145_29257_0843.N1	05-OCT-2007 00:52:09	Twilight	45.500	48	30Alp Hya	1.9770	4100.0	91	29257	No
10	GOM_TRA_1PNPDE20071005_010149_000000442062_00145_29257_0964.N1	05-OCT-2007 01:01:49	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	29257	No
11	GOM_TRA_1PNPDE20071005_010317_000000452062_00145_29257_0965.N1	05-OCT-2007 01:03:17	Dark	44.500	70	Zet Pup	2.2460	39000.	89	29257	No
12	GOM_TRA_1PNPDE20071005_010505_000000422062_00145_29257_0966.N1	05-OCT-2007 01:05:05	Dark	42.000	46	Del Vel	1.9540	10600.	84	29257	No

13	GOM_TRA_1PNPDE20071005_010827_000000452062_00146_29258_0967.N1	05-OCT-2007 01:08:27	Dark	44.500	161	Tau Pup	2.9310	4500.0	89	29258	No
14	GOM_TRA_1PNPDE20071005_010952_000000482062_00146_29258_0968.N1	05-OCT-2007 01:09:52	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	29258	No
15	GOM_TRA_1PNPDE20071005_011853_000000392062_00146_29258_0969.N1	05-OCT-2007 01:18:53	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	29258	No
16	GOM_TRA_1PNPDE20071005_012021_000000432062_00146_29258_0970.N1	05-OCT-2007 01:20:21	Dark	42.500	9	Alp Eri	0.45300	24000.	85	29258	No
17	GOM_TRA_1PNPDE20071005_012537_000000422062_00146_29258_0971.N1	05-OCT-2007 01:25:37	Straylight	42.000	84	Alp Phe	2.3970	4500.0	84	29258	No
18	GOM_TRA_1PNPDE20071005_013226_000000462062_00146_29258_0972.N1	05-OCT-2007 01:32:26	Straylight	45.500	52	16Bet Cet	2.0370	4500.0	91	29258	No
19	GOM_TRA_1PNPDE20071005_014233_000000372062_00146_29258_0973.N1	05-OCT-2007 01:42:33	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	29258	No
20	GOM_TRA_1PNPDE20071005_014610_000000362062_00146_29258_0974.N1	05-OCT-2007 01:46:10	Bright	35.500	93	53Bet Peg	2.5200	3100.0	71	29258	No
21	GOM_TRA_1PNPDE20071005_015509_000000402062_00146_29258_0975.N1	05-OCT-2007 01:55:09	Bright	39.500	68	18Alp Cas	2.2250	4500.0	79	29258	No
22	GOM_TRA_1PNPDE20071005_015635_000000402062_00146_29258_0976.N1	05-OCT-2007 01:56:35	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	29258	No
23	GOM_TRA_1PNPDE20071005_020330_000000352062_00146_29258_0977.N1	05-OCT-2007 02:03:30	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	29258	No
24	GOM_TRA_1PNPDE20071005_021133_000000362062_00146_29258_1127.N1	05-OCT-2007 02:11:33	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	29258	No
25	GOM_TRA_1PNPDE20071005_021303_000000382062_00146_29258_1128.N1	05-OCT-2007 02:13:03	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	29258	No
26	GOM_TRA_1PNPDE20071005_022300_000000362062_00146_29258_1129.N1	05-OCT-2007 02:23:00	Bright	36.000	166	17Eps Leo	2.9800	6000.0	72	29258	No
27	GOM_TRA_1PNPDE20071005_022606_000000342062_00146_29258_1130.N1	05-OCT-2007 02:26:06	Bright	34.000	22	32Alp Leo	1.3600	15200.	68	29258	No
28	GOM_TRA_1PNPDE20071005_023245_000000462062_00146_29258_1131.N1	05-OCT-2007 02:32:45	Twilight	45.500	48	30Alp Hya	1.9770	4100.0	91	29258	No
29	GOM_TRA_1PNPDE20071005_024225_000000432062_00146_29258_1132.N1	05-OCT-2007 02:42:25	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	29258	No
30	GOM_TRA_1PNPDE20071005_024354_000000412062_00146_29258_1133.N1	05-OCT-2007 02:43:54	Dark	40.500	70	Zet Pup	2.2460	39000.	81	29258	No
31	GOM_TRA_1PNPDE20071005_024541_000000382062_00146_29258_1134.N1	05-OCT-2007 02:45:41	Dark	38.000	46	Del Vel	1.9540	10600.	76	29258	No
32	GOM_TRA_1PNPDE20071005_024904_000000432062_00147_29259_1135.N1	05-OCT-2007 02:49:04	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	29259	No
33	GOM_TRA_1PNPDE20071005_025028_000000512062_00147_29259_1136.N1	05-OCT-2007 02:50:28	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	29259	No
34	GOM_TRA_1PNPDE20071005_025929_000000392062_00147_29259_1137.N1	05-OCT-2007 02:59:29	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	29259	No
35	GOM_TRA_1PNPDE20071005_030057_000000502062_00147_29259_1138.N1	05-OCT-2007 03:00:57	Dark	49.500	9	Alp Eri	0.45300	24000.	99	29259	No
36	GOM_TRA_1PNPDE20071005_030613_000000432062_00147_29259_1139.N1	05-OCT-2007 03:06:13	Straylight	43.000	84	Alp Phe	2.3970	4500.0	86	29259	No
37	GOM_TRA_1PNPDE20071005_031303_000000462062_00147_29259_1140.N1	05-OCT-2007 03:13:03	Straylight	46.000	52	16Bet Cet	2.0370	4500.0	92	29259	No
38	GOM_TRA_1PNPDE20071005_032310_000000362062_00147_29259_1141.N1	05-OCT-2007 03:23:10	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	29259	No
39	GOM_TRA_1PNPDE20071005_032646_000000362062_00147_29259_1142.N1	05-OCT-2007 03:26:46	Bright	36.000	93	53Bet Peg	2.5200	3100.0	72	29259	No
40	GOM_TRA_1PNPDE20071005_033545_000000402062_00147_29259_1143.N1	05-OCT-2007 03:35:45	Bright	39.500	68	18Alp Cas	2.2250	4500.0	79	29259	No
41	GOM_TRA_1PNPDE20071005_033710_000000392062_00147_29259_1144.N1	05-OCT-2007 03:37:10	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	29259	No
42	GOM_TRA_1PNPDE20071005_034406_000000352062_00147_29259_1145.N1	05-OCT-2007 03:44:06	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	29259	No
43	GOM_TRA_1PNPDE20071005_035209_000000372062_00147_29259_1293.N1	05-OCT-2007 03:52:09	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29259	No
44	GOM_TRA_1PNPDE20071005_035340_000000522062_00147_29259_1294.N1	05-OCT-2007 03:53:40	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	29259	No
45	GOM_TRA_1PNPDE20071005_040336_000000362062_00147_29259_1295.N1	05-OCT-2007 04:03:36	Bright	35.500	166	17Eps Leo	2.9800	6000.0	71	29259	No
46	GOM_TRA_1PNPDE20071005_040642_000000342062_00147_29259_1296.N1	05-OCT-2007 04:06:42	Bright	33.500	22	32Alp Leo	1.3600	15200.	67	29259	No
47	GOM_TRA_1PNPDE20071005_041321_000000482062_00147_29259_1297.N1	05-OCT-2007 04:13:21	Twilight	48.000	48	30Alp Hya	1.9770	4100.0	96	29259	No
48	GOM_TRA_1PNPDE20071005_042301_000000532062_00147_29259_1298.N1	05-OCT-2007 04:23:01	Dark	52.500	65	Lam Vel	2.2040	4400.0	105	29259	No
49	GOM_TRA_1PNPDE20071005_042431_000000432062_00147_29259_1299.N1	05-OCT-2007 04:24:31	Dark	43.000	70	Zet Pup	2.2460	39000.	86	29259	No
50	GOM_TRA_1PNPDE20071005_042617_000000382062_00147_29259_1300.N1	05-OCT-2007 04:26:17	Dark	38.000	46	Del Vel	1.9540	10600.	76	29259	No

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



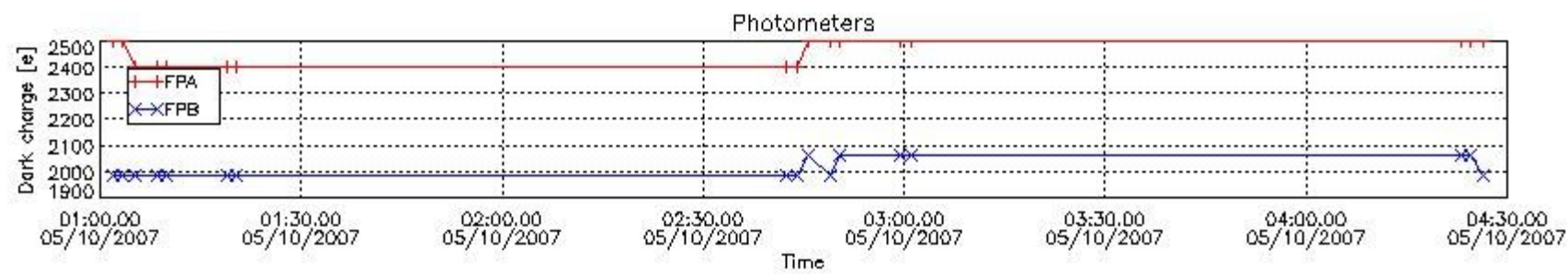
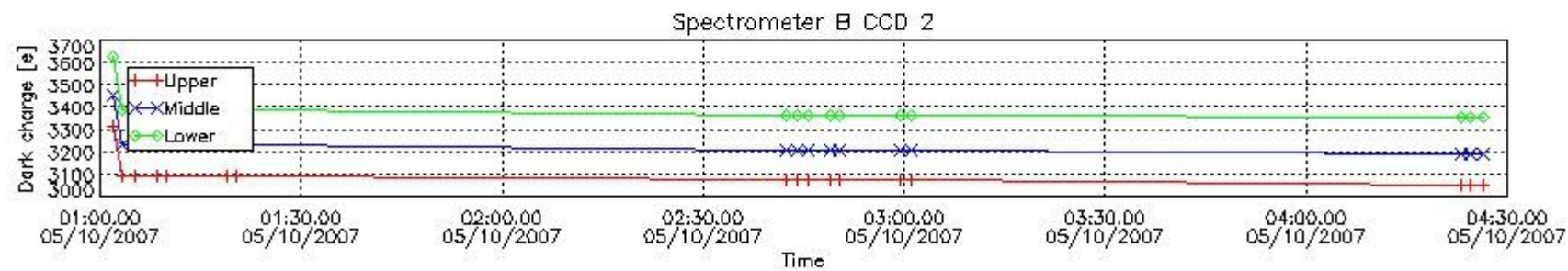
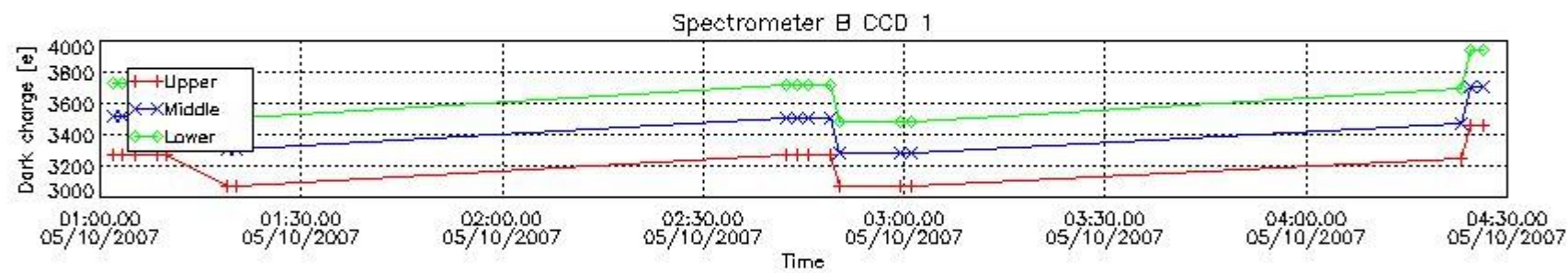
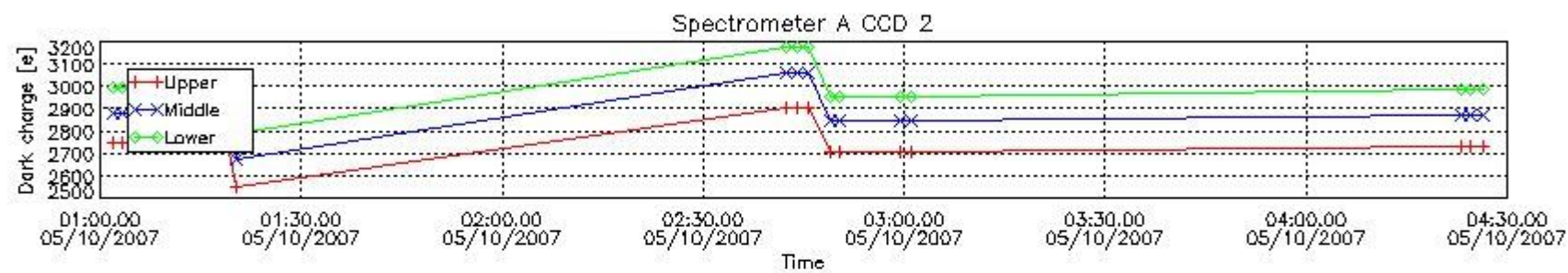
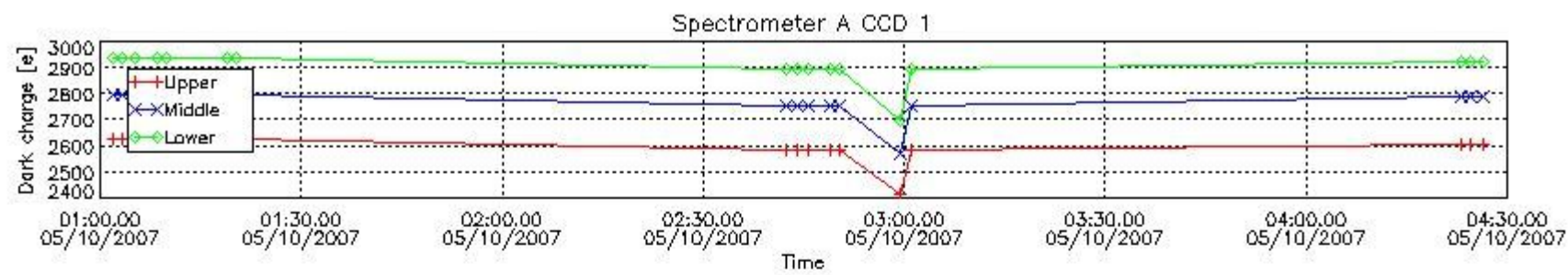
4. Overview of dark signal processing per product

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



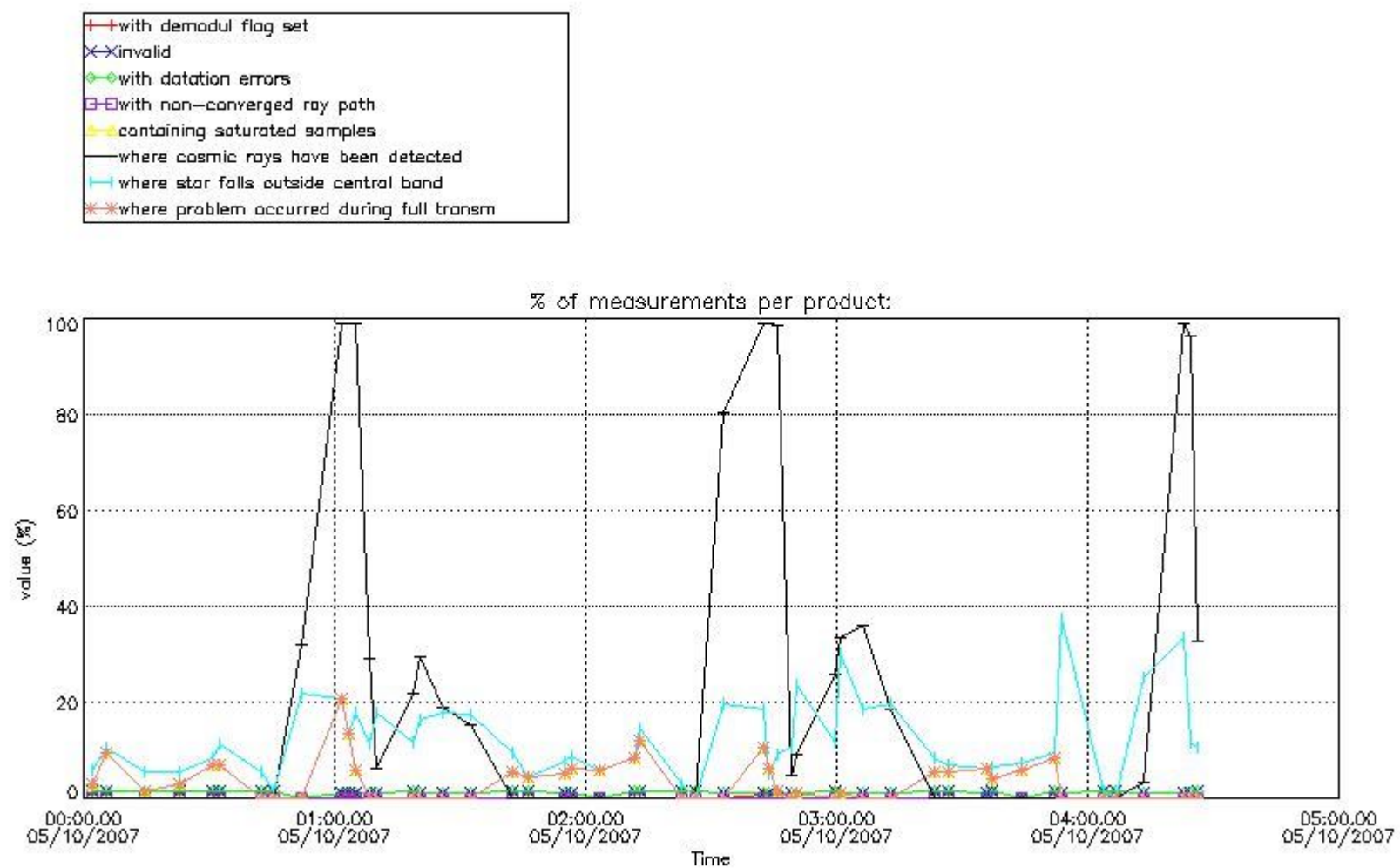
5. Demodulation flag and quality information monitoring

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.

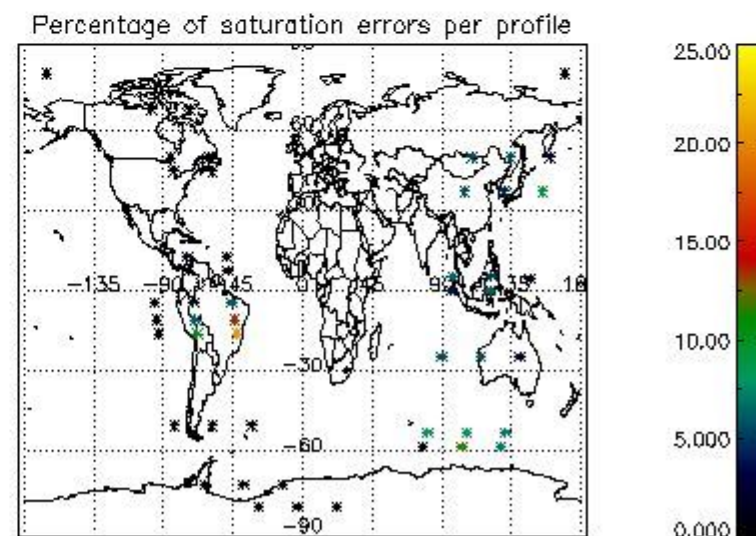
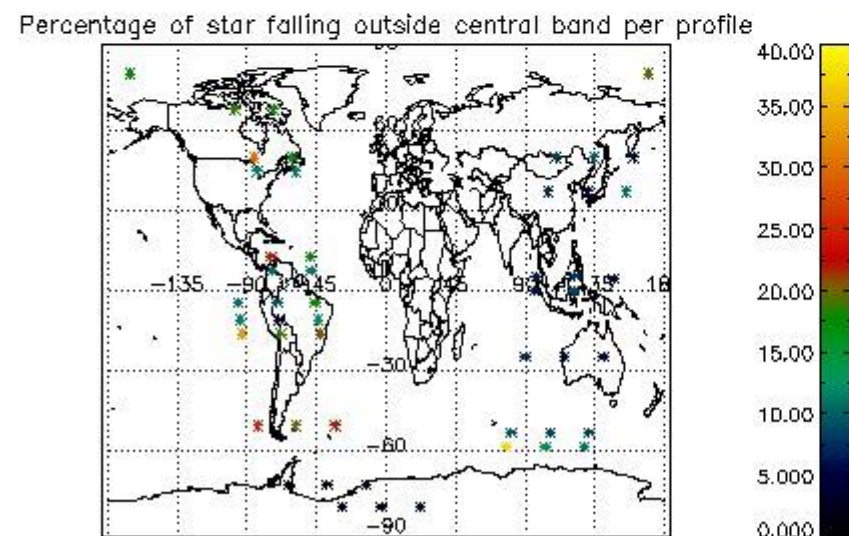
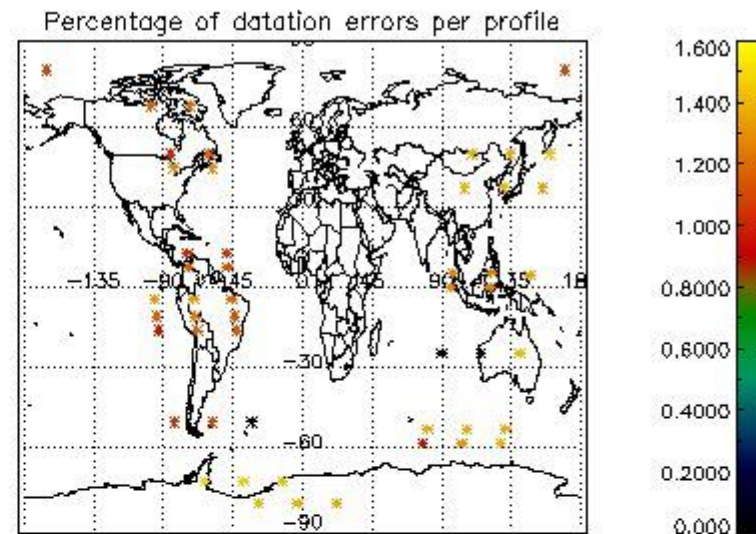
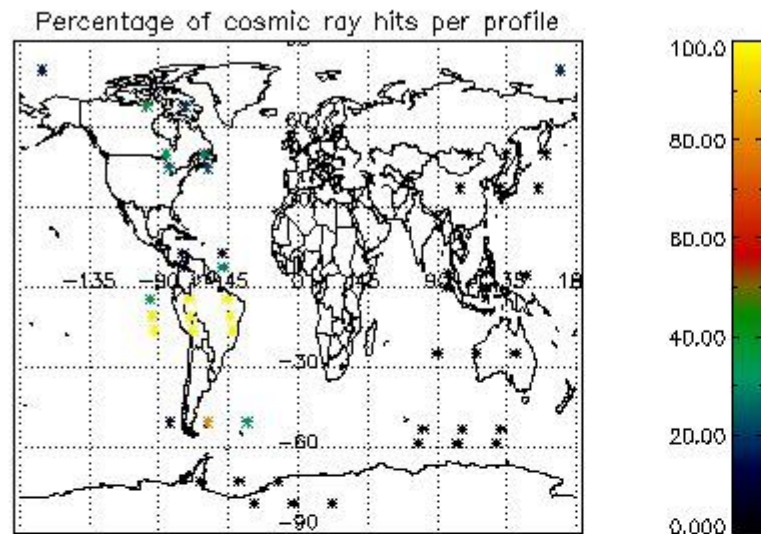
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.0000 %
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)



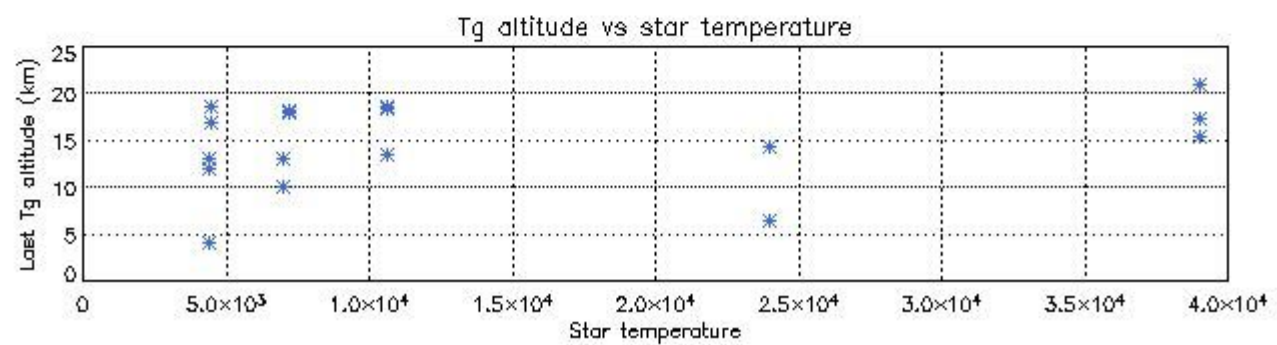
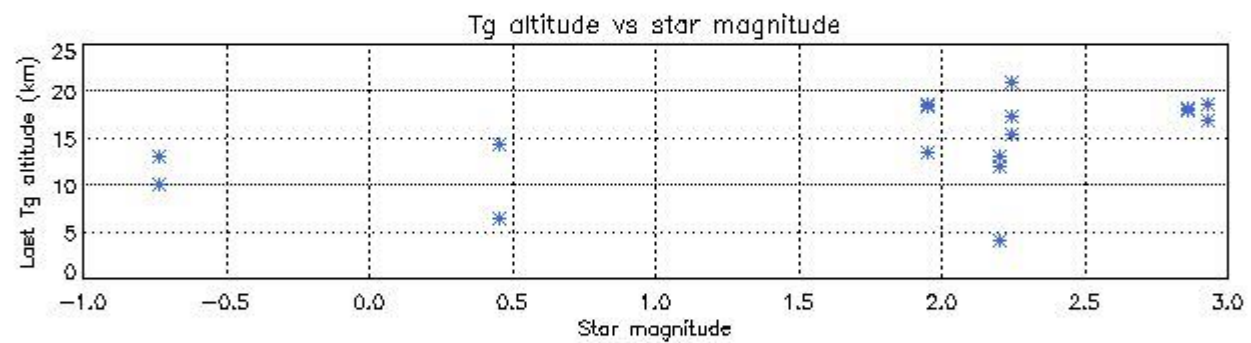
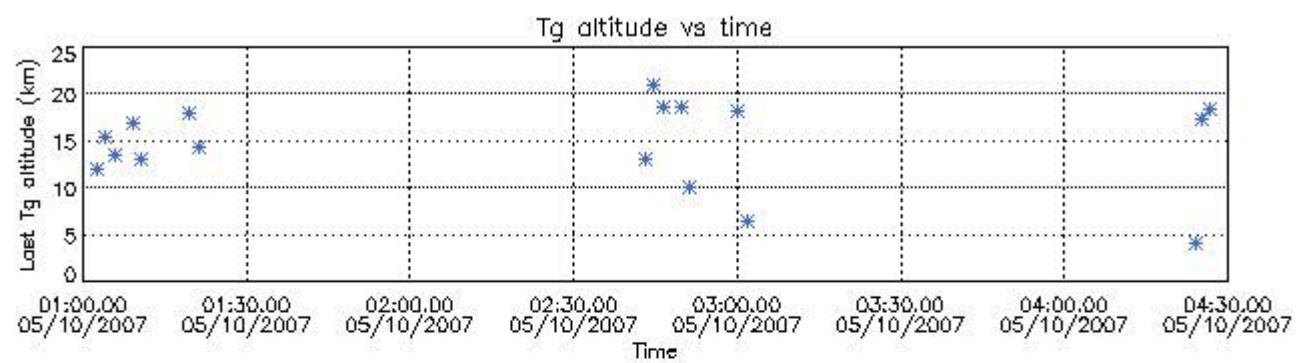
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.638	20.547	10.885
St. deviation:	4.5815	4.1123	1.1715
Maximum:	20.965	26.797	11.765
Minimum:	4.1049	3.7915	9.5550
Number of data:	17.000	26.000	3.0000

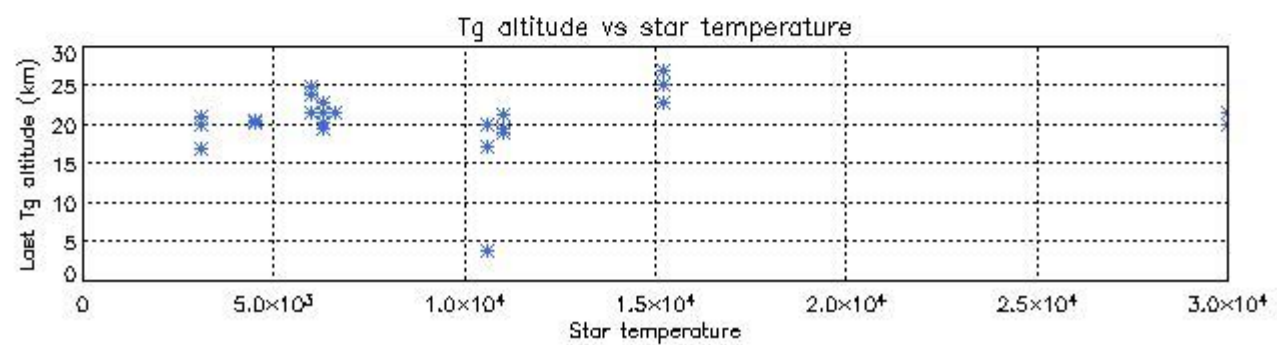
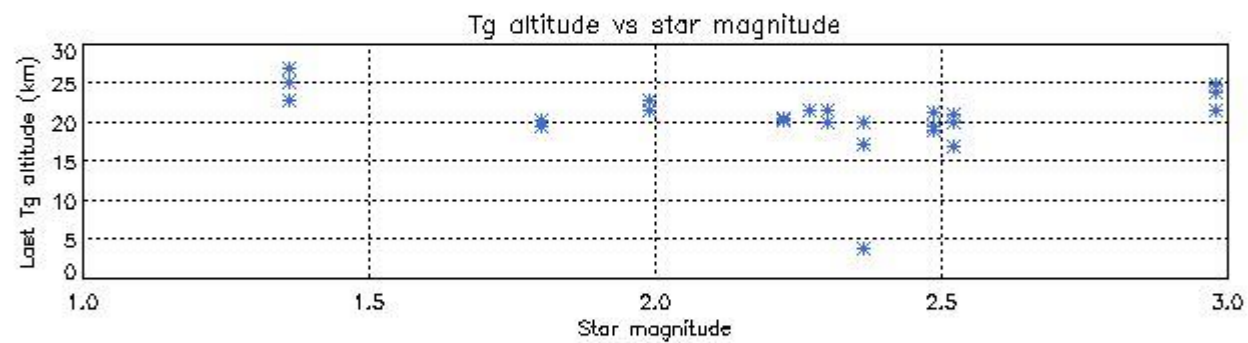
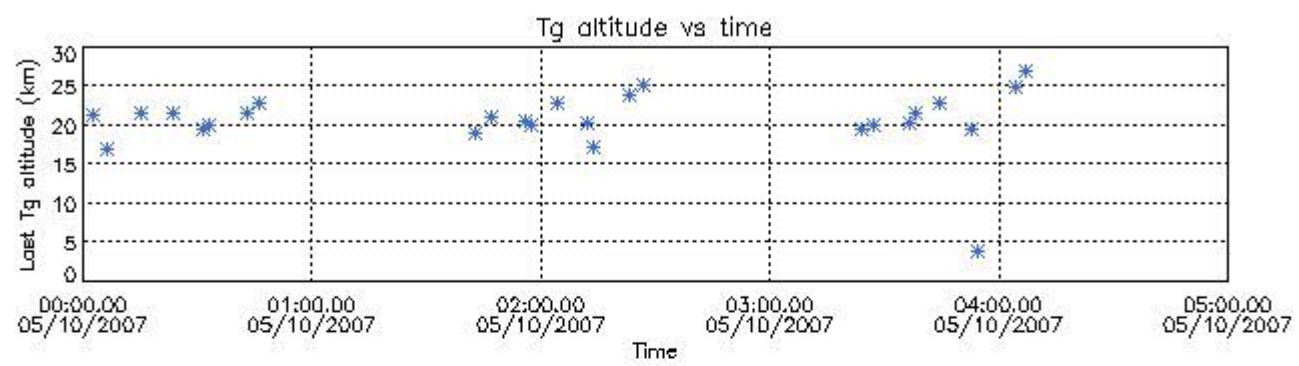
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



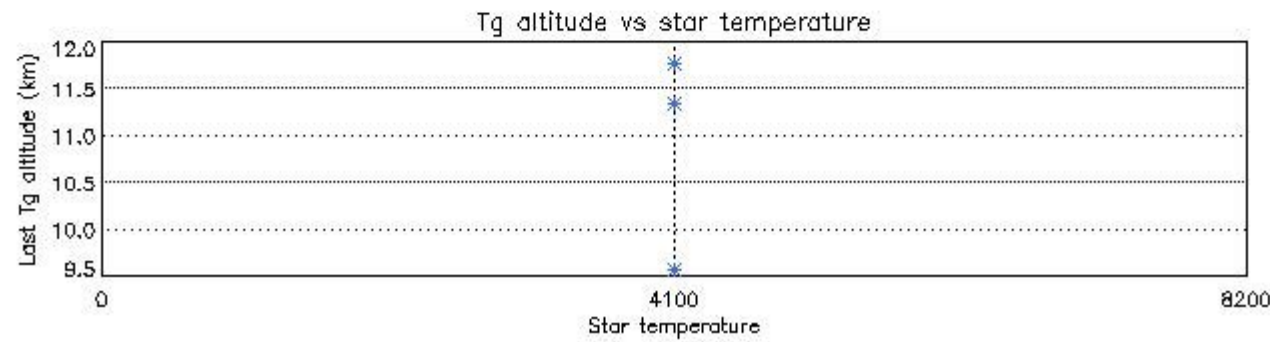
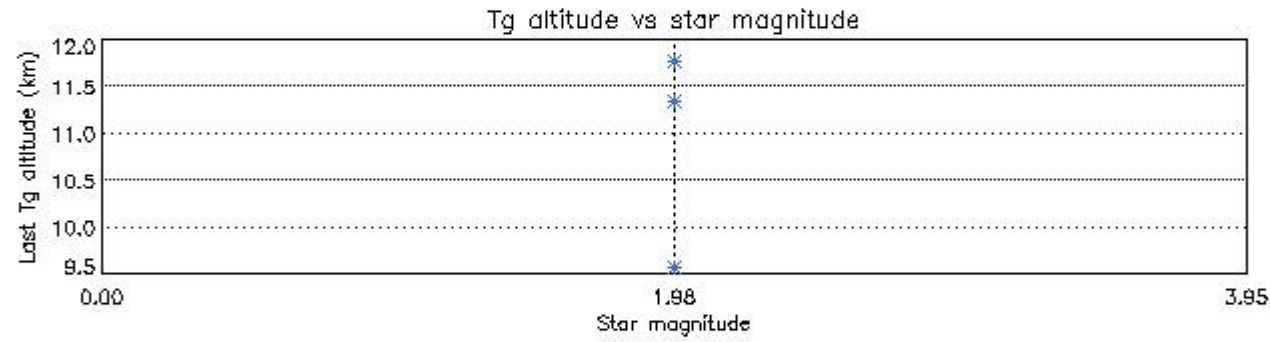
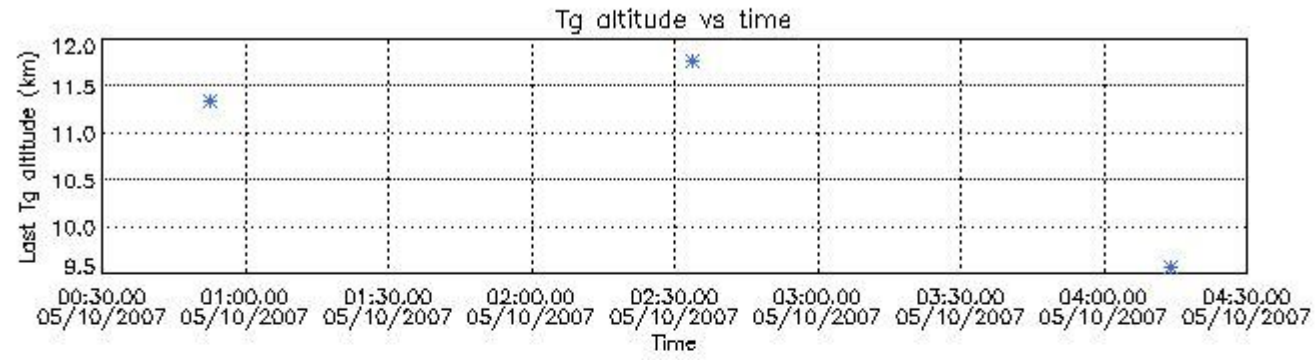
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

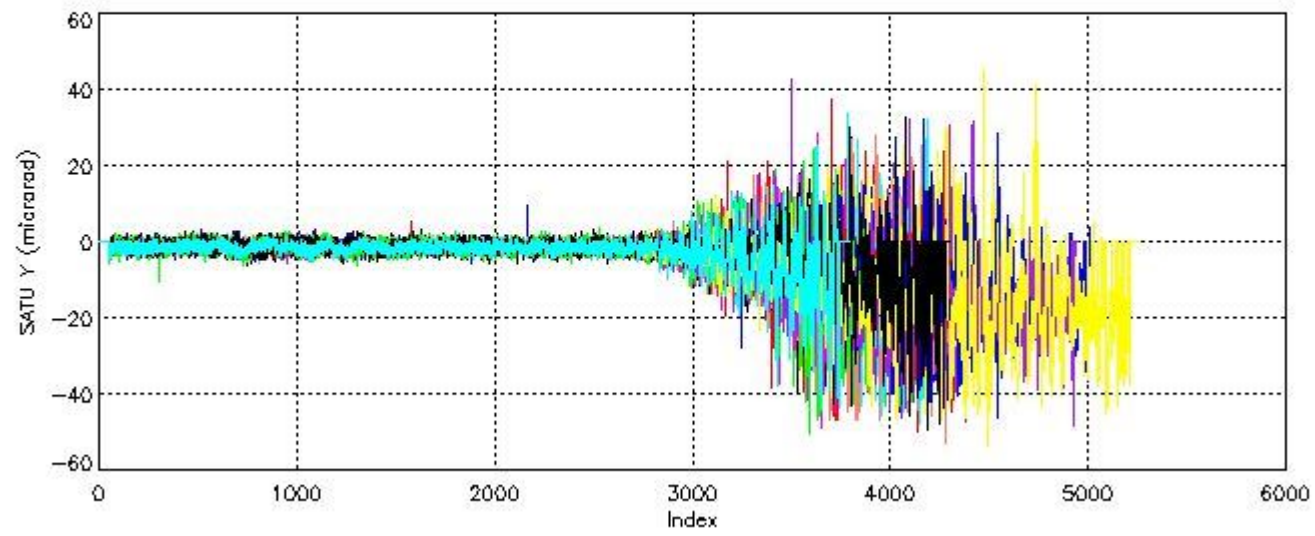
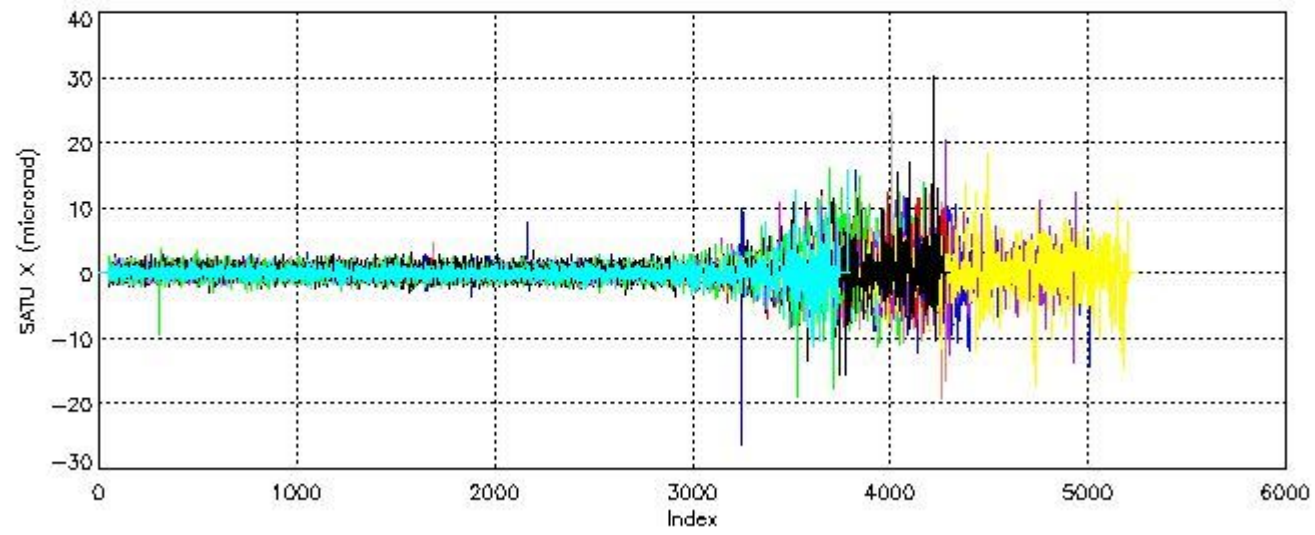


7. Star Acquisition and Tracking Unit (SATU)

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:	0.12423	-1.2686	0.043803	-1.3030
St. deviation:	0.50202	1.0131	0.64146	1.1819
Maximum:	3.7000	3.2000	4.1000	4.5000
Minimum:	-9.5000	-10.700	-4.2000	-7.0000

Number of data:	15950.	15950.	21650.	21650.
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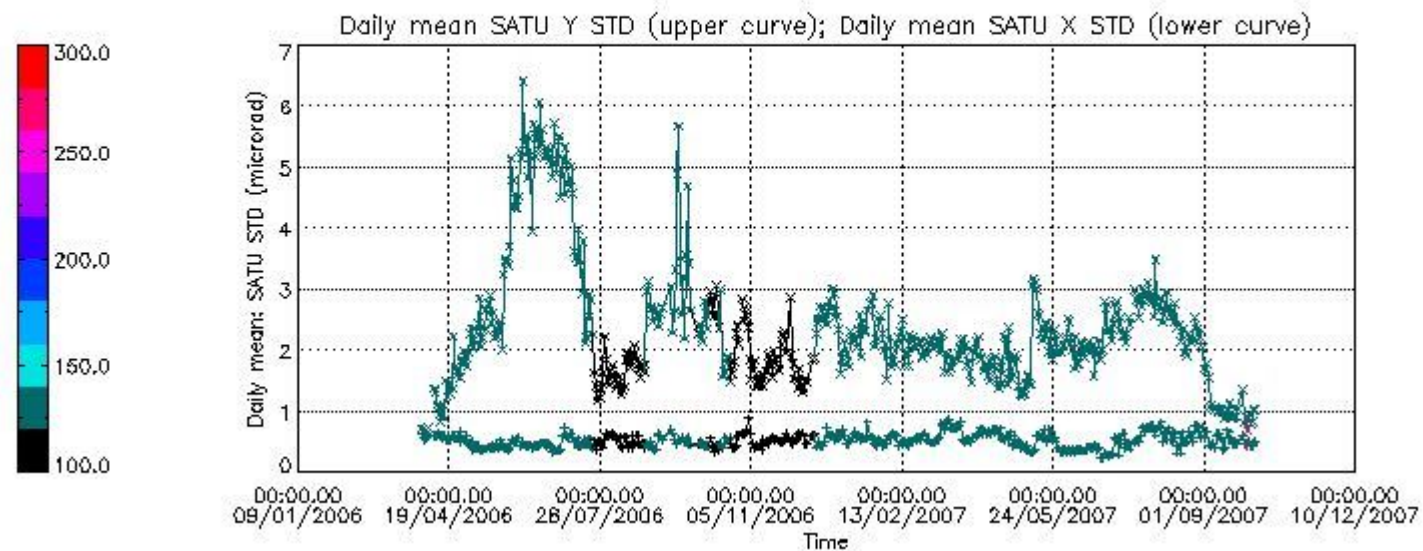
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

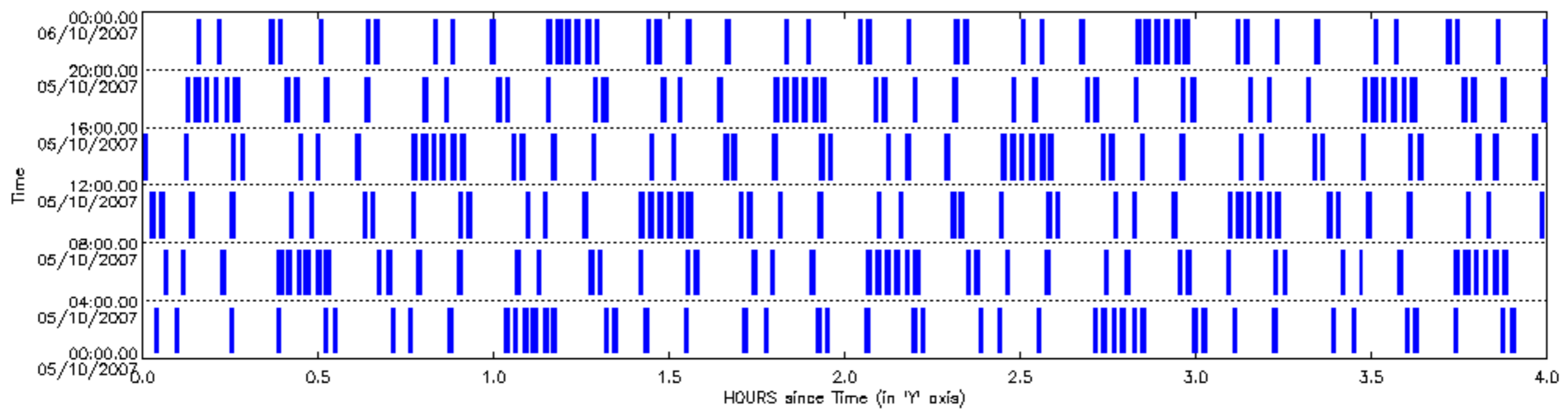
Lower curve: STD of SATU X axis

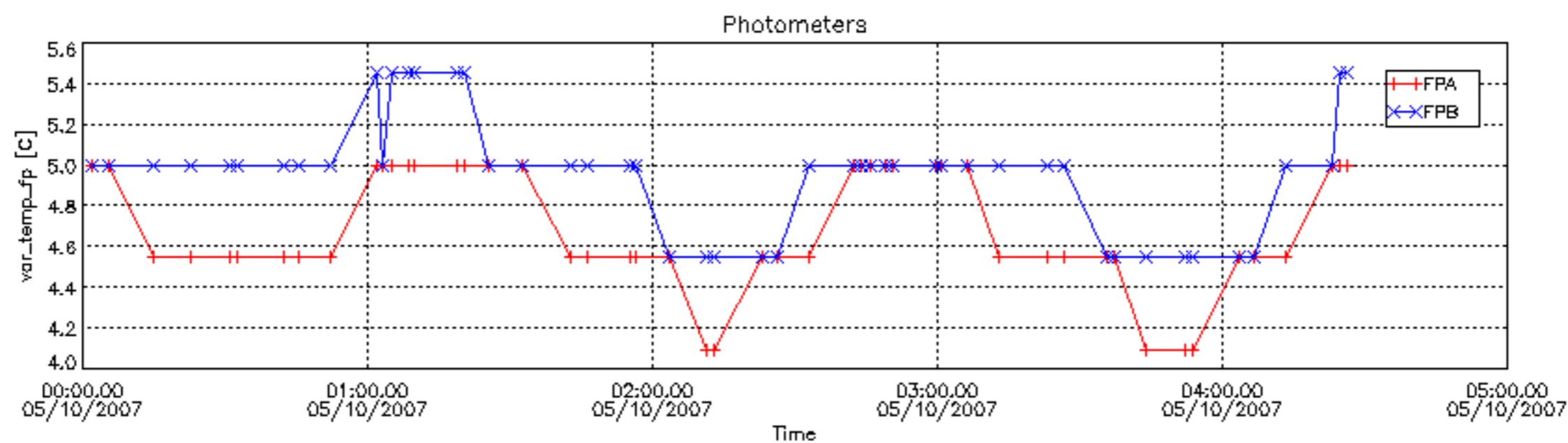
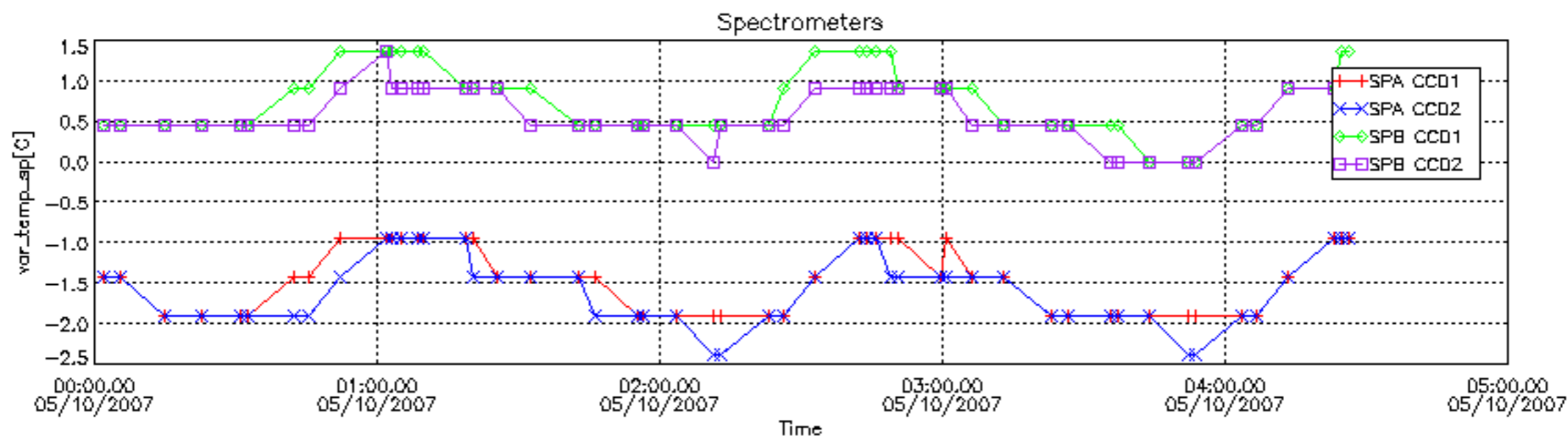


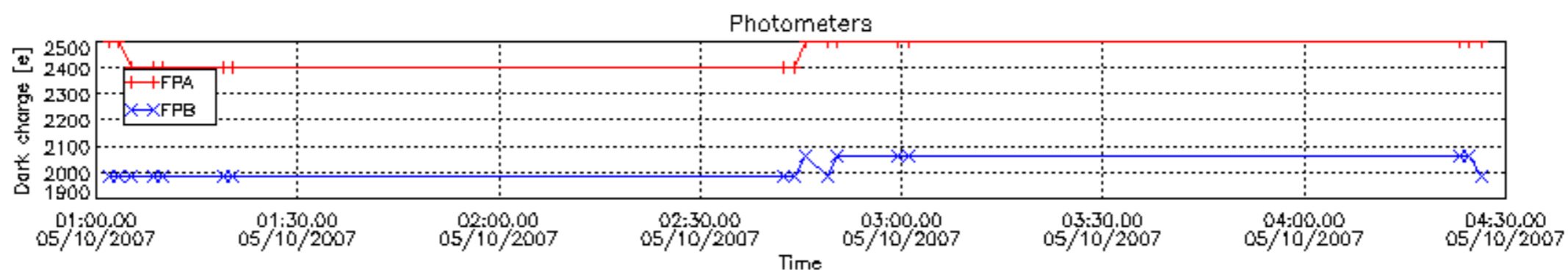
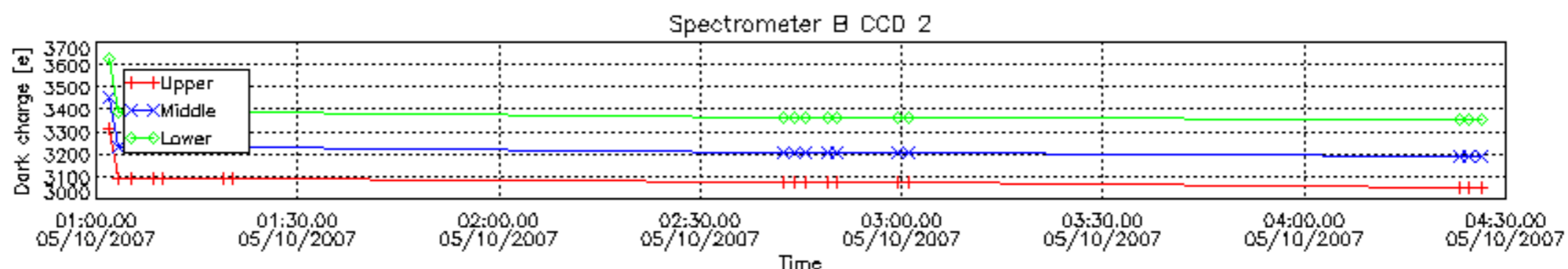
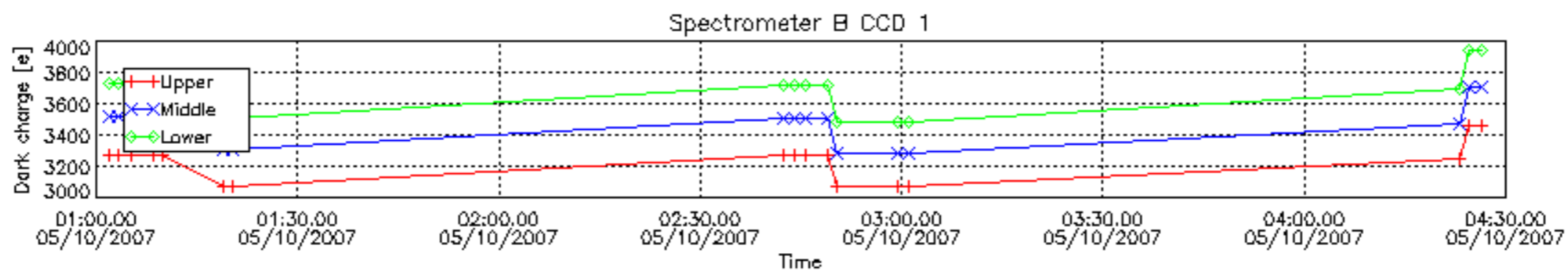
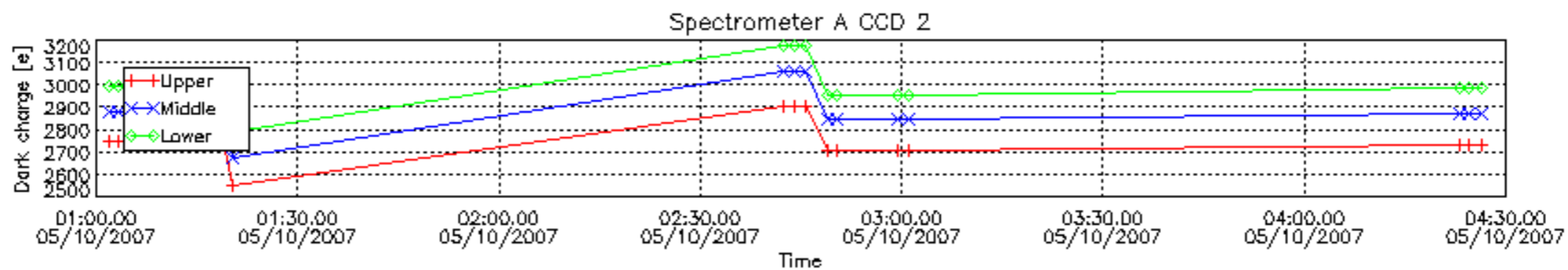
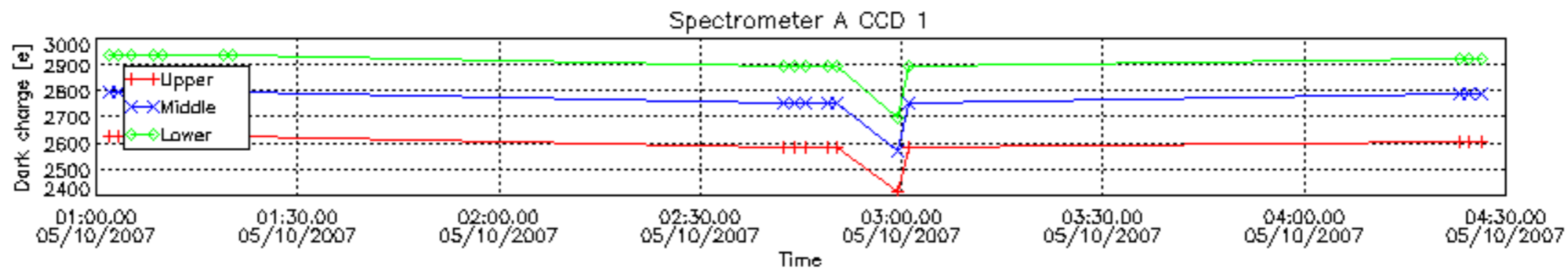
8. Auxiliary Data Files used for the production reported in section 2.4

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

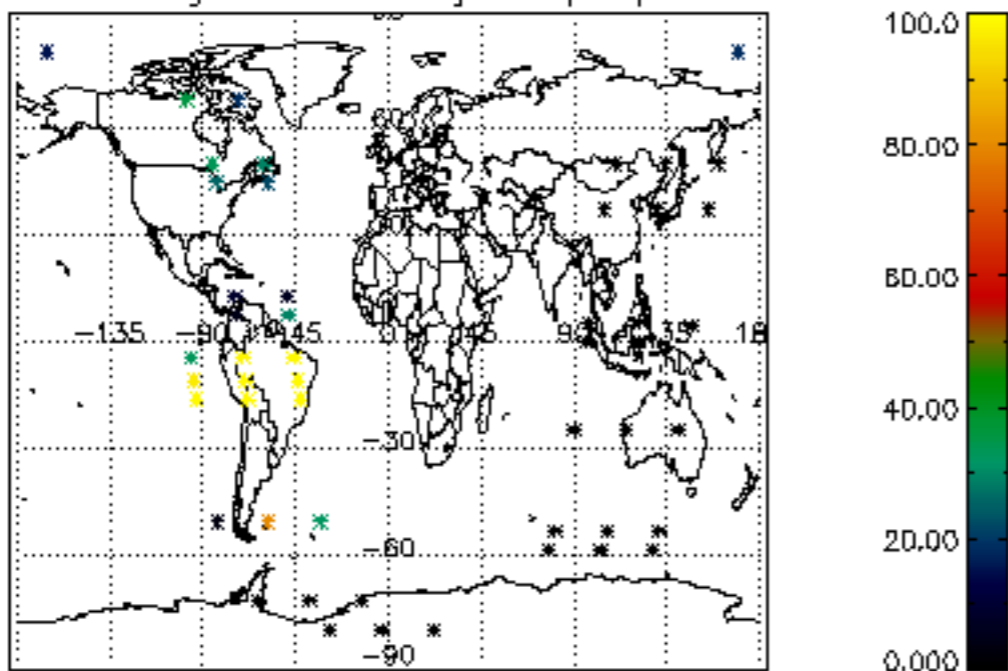
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	05-OCT-2007 00:01:57
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070928_104909_20070927_000000_20100101_000000	1	05-OCT-2007 00:01:57
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	05-OCT-2007 00:01:57
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-OCT-2007 00:01:57
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	05-OCT-2007 00:01:57
ECMWF_FILE	AUX_ECF_AXNECM20071004_060113_20071004_210000_20071005_090000	1	05-OCT-2007 00:01:57
ECMWF_FILE	AUX_ECF_AXNECM20071004_180113_20071005_030000_20071005_150000	43	05-OCT-2007 03:52:09
OPTIONAL_ECMWF_FILE	MISSING	1	05-OCT-2007 00:01:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071004_213024_000057382062_00143_29255_4289.N1	1	05-OCT-2007 00:01:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071004_231121_000057382062_00144_29256_4290.N1	10	05-OCT-2007 01:01:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071005_005218_000041442062_00145_29257_4291.N1	24	05-OCT-2007 02:11:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071005_020641_000057382062_00146_29258_4292.N1	43	05-OCT-2007 03:52:09



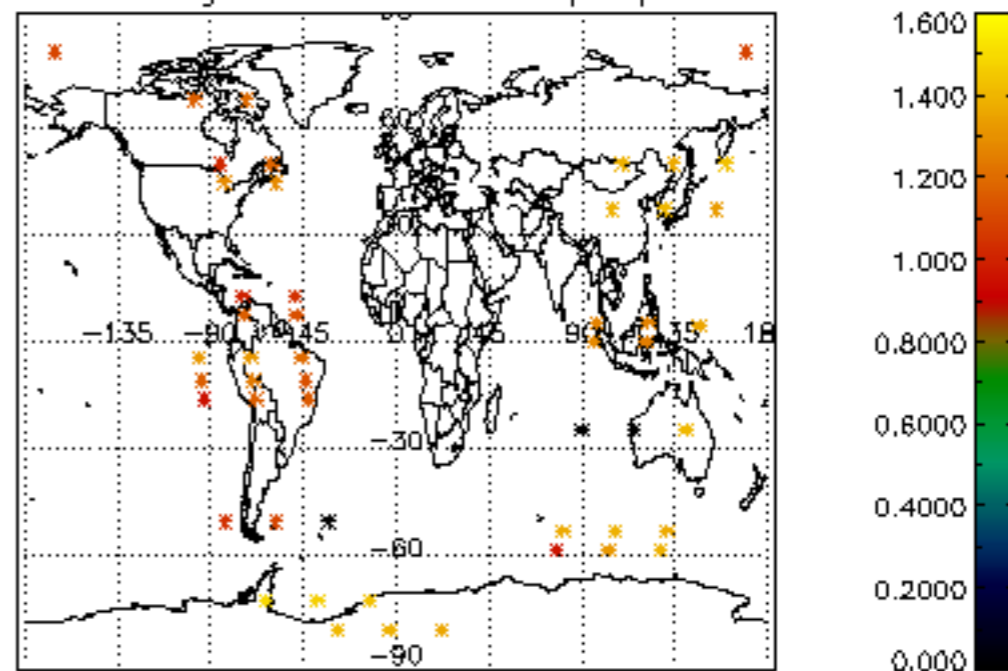




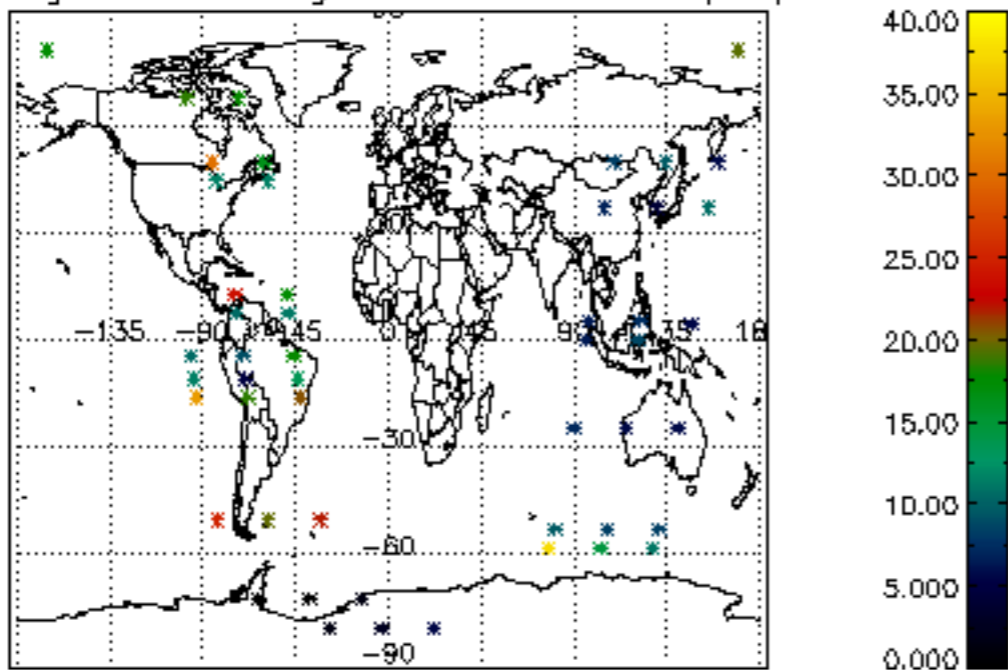
Percentage of cosmic ray hits per profile



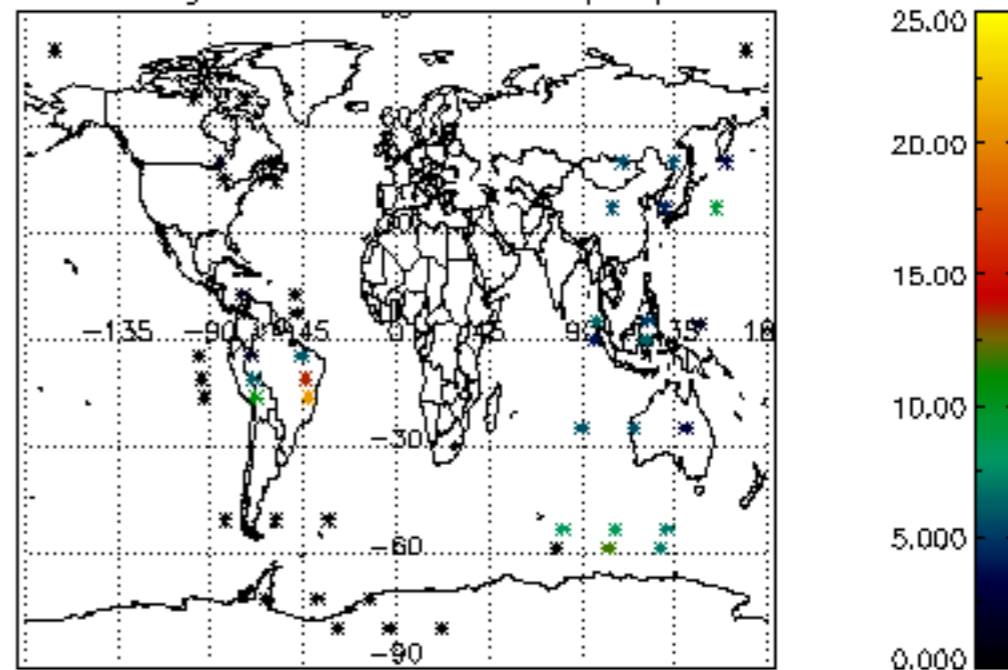
Percentage of datation errors per profile



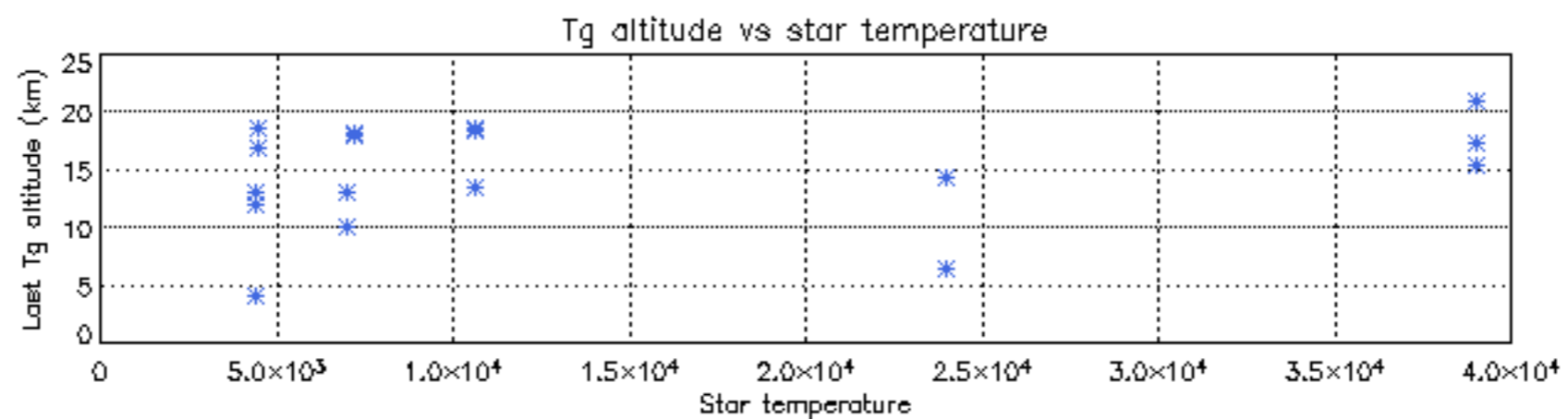
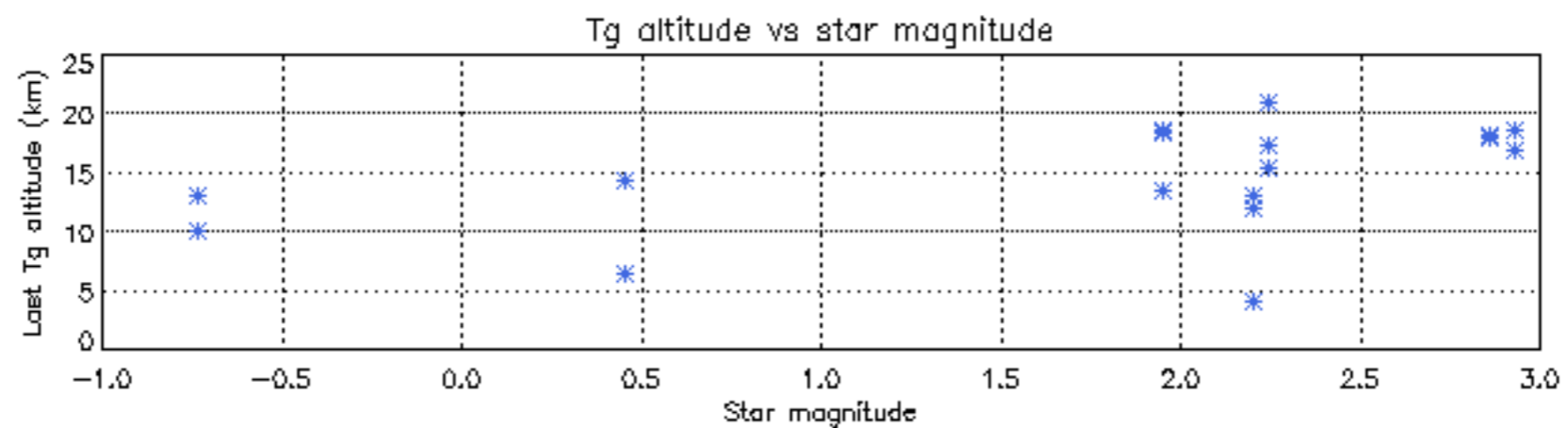
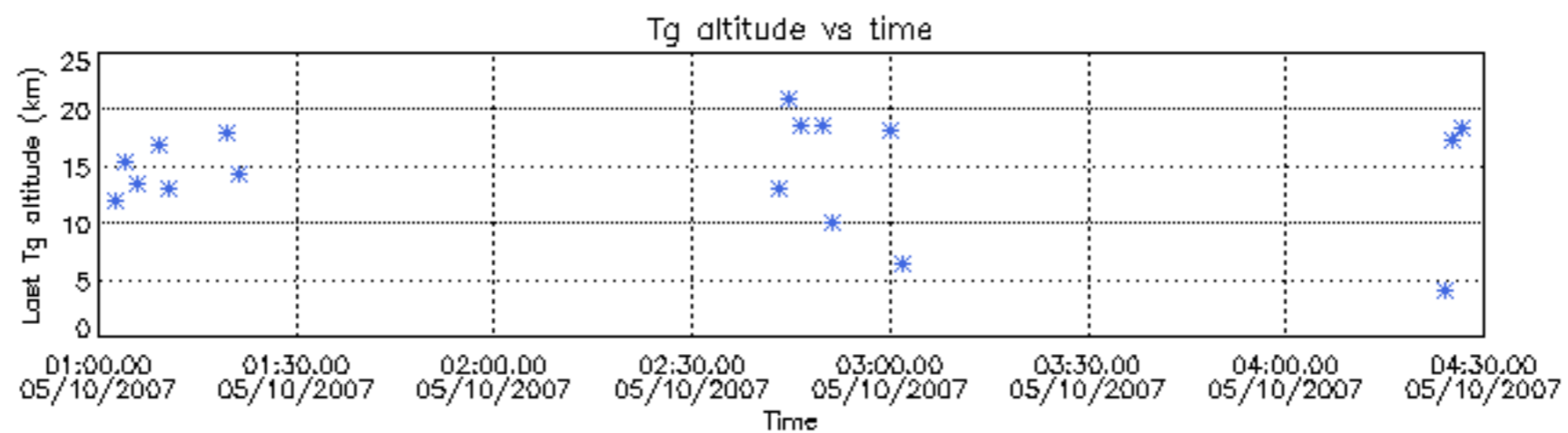
Percentage of star falling outside central band per profile



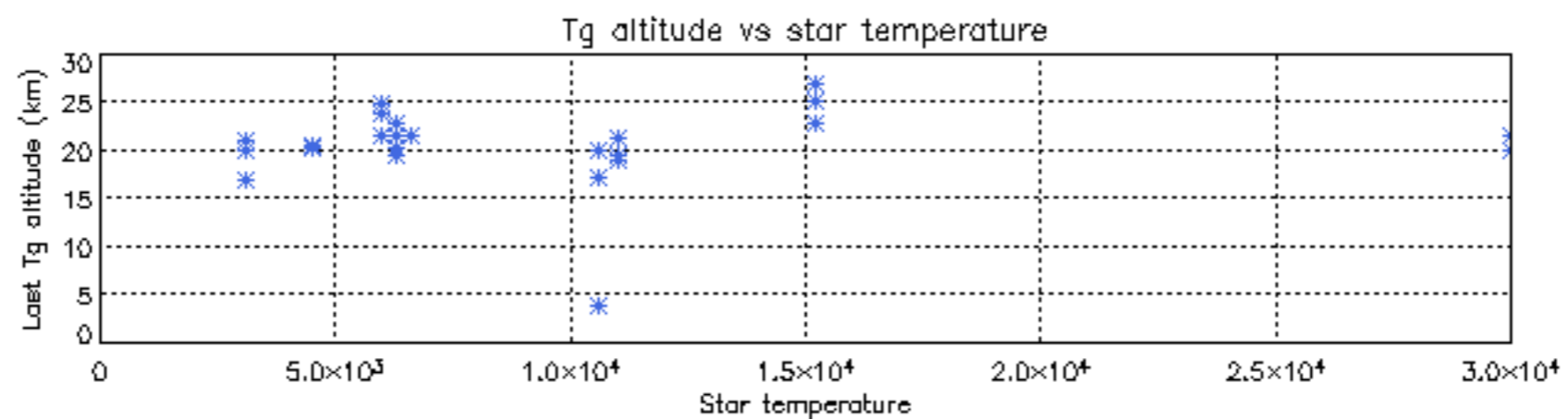
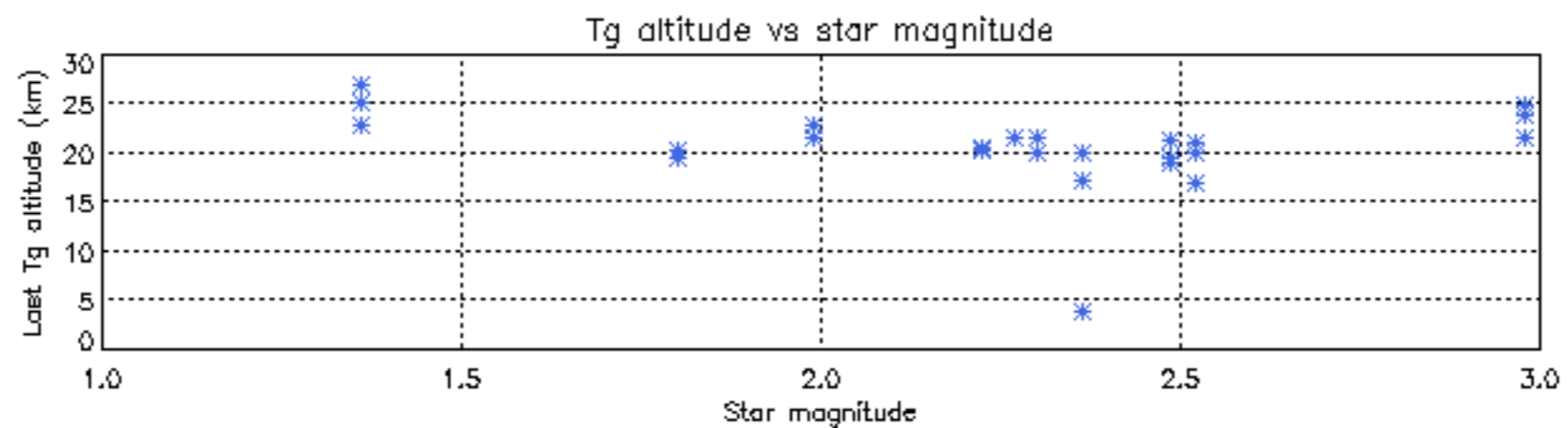
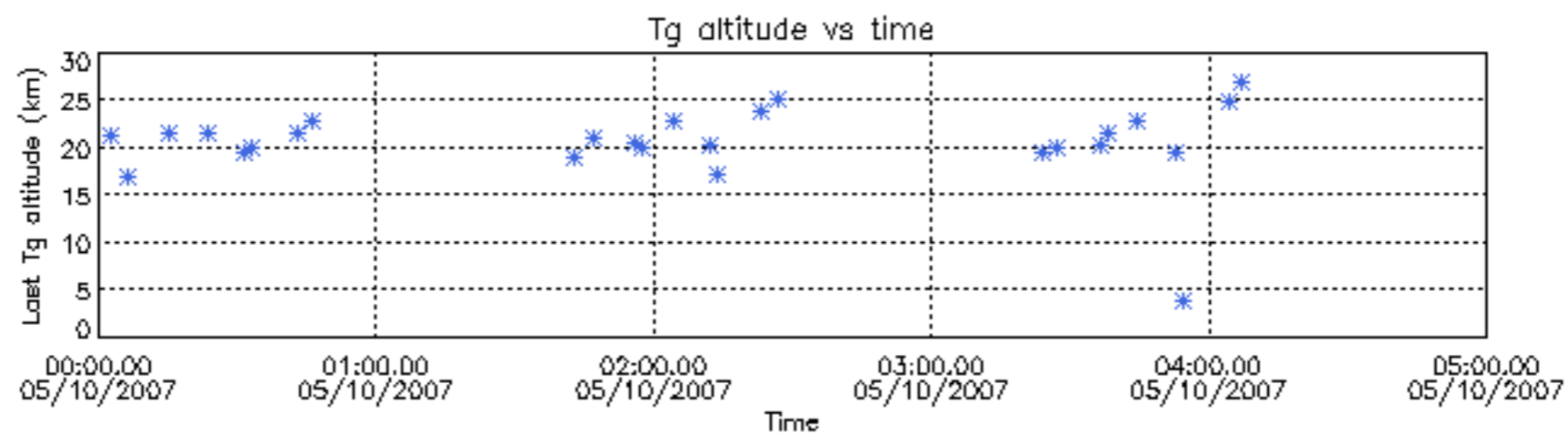
Percentage of saturation errors per profile



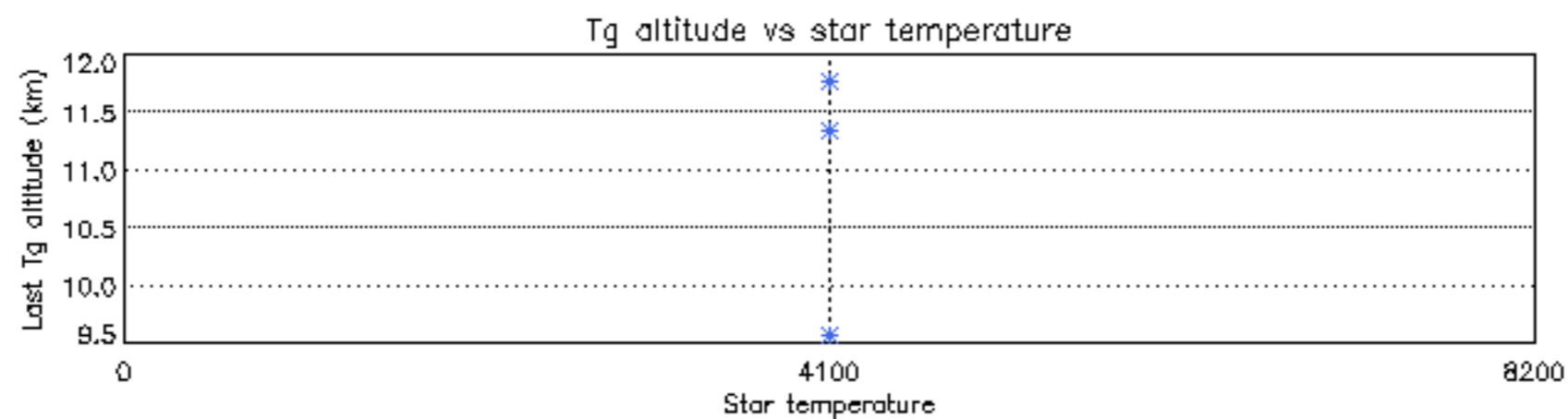
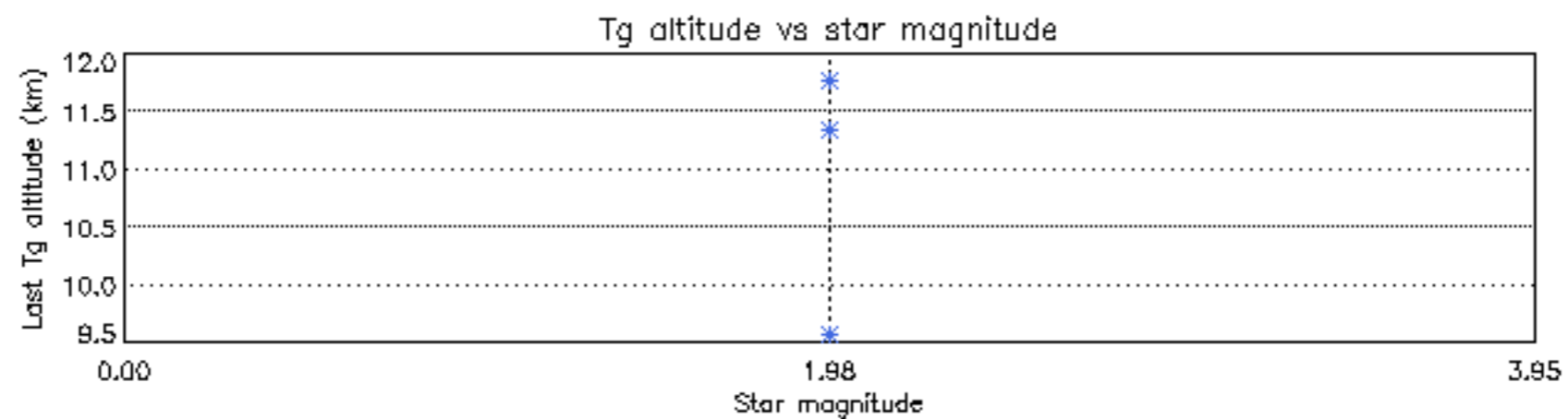
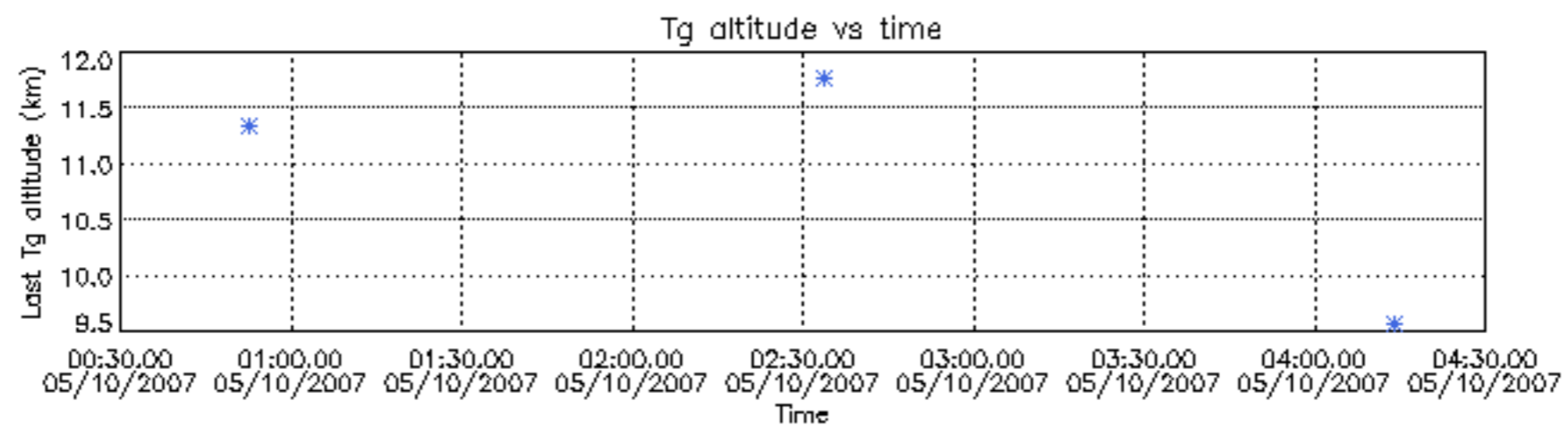
Tangent altitude at which the star is lost

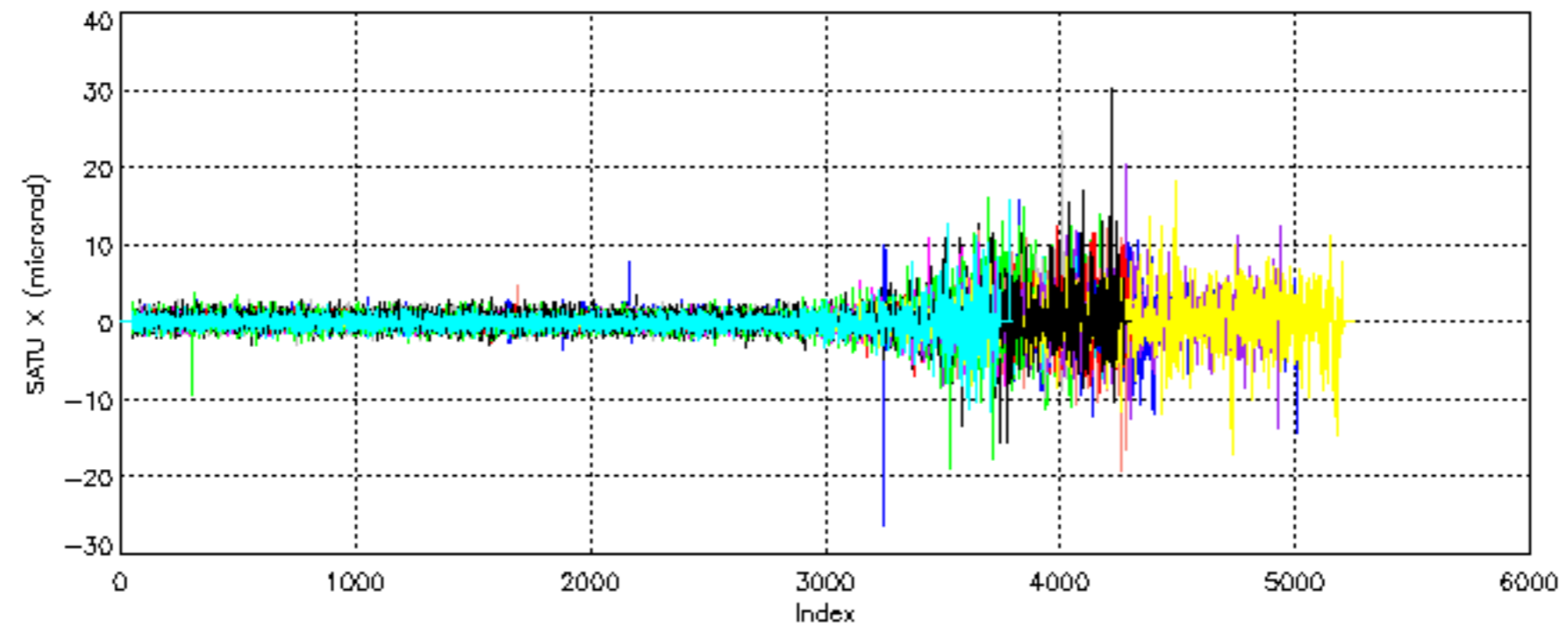


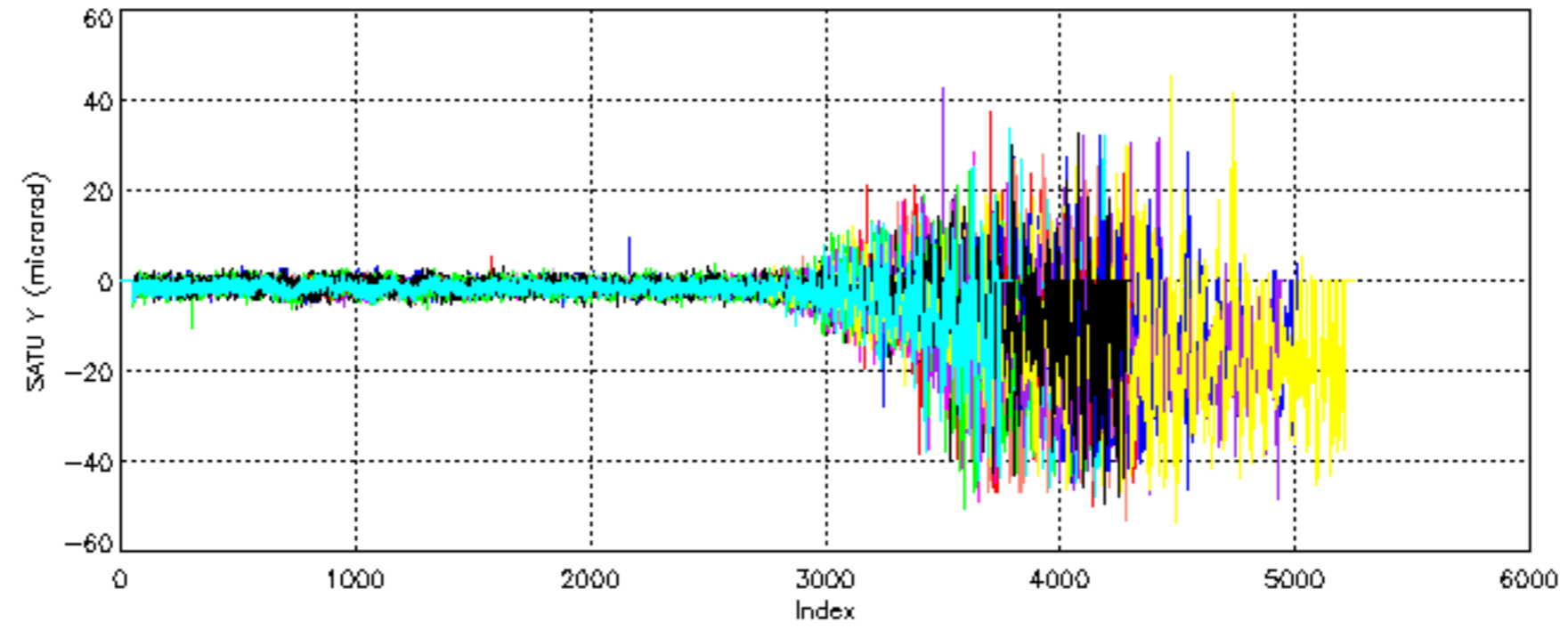
Tangent altitude at which the star is lost

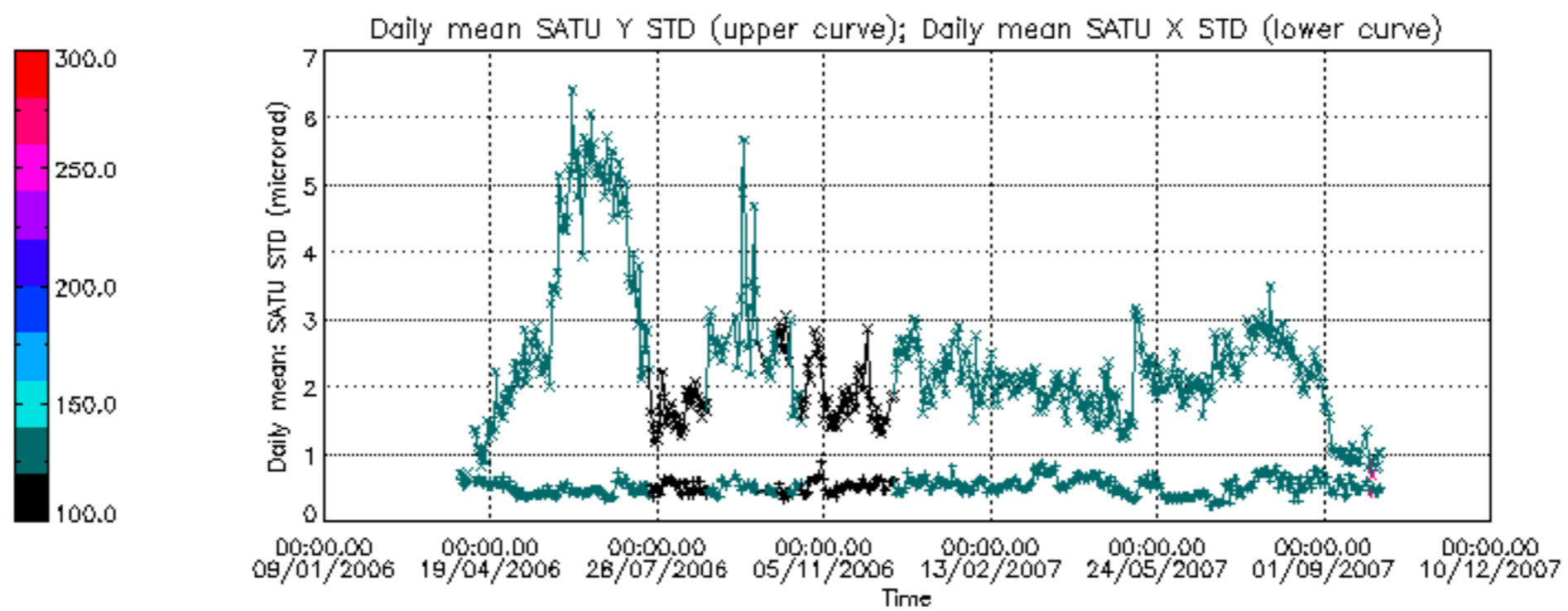


Tangent altitude at which the star is lost









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 3; -142.0; 01-OCT-2007 01:29:52; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;29200
 4; 82.2; 01-OCT-2007 01:33:36; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29201
 5; 166.3; 01-OCT-2007 01:35:00; Dark ; 59.0; 2; Alp Car ;-0.74; 7000;occ; 118; 0;29201
 6; 729.7; 01-OCT-2007 01:44:23; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29201
 7; 817.4; 01-OCT-2007 01:45:51; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29201
 8; 1139.7; 01-OCT-2007 01:51:13; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29201
 9; 2167.3; 01-OCT-2007 02:08:21; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29201
 10; 2386.2; 01-OCT-2007 02:12:00; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29201
 11; 2952.9; 01-OCT-2007 02:21:27; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;29201
 12; 3428.6; 01-OCT-2007 02:29:22; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29201

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 3; -1449.1; 01-OCT-2007 02:48:40; Bright; 42.0; 166; 17Eps Leo ; 2.98; 6000;occ; 84; 0;29201
 4; -876.7; 01-OCT-2007 02:58:13; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29201
 5; -295.8; 01-OCT-2007 03:07:54; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29201
 6; -141.4; 01-OCT-2007 03:10:28; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;29201
 7; 83.0; 01-OCT-2007 03:14:13; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29202
 8; 167.1; 01-OCT-2007 03:15:37; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29202
 9; 730.2; 01-OCT-2007 03:25:00; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29202
 10; 817.9; 01-OCT-2007 03:26:28; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;29202
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 12; 2167.6; 01-OCT-2007 03:48:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29202
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 3; -1448.9; 01-OCT-2007 04:29:17; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29202
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 9; 83.7; 01-OCT-2007 04:54:49; Dark ; 45.5; 161; Tau Pup ; 2.93; 4500;occ; 91; 0;29203
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 2; 1558.3; 01-OCT-2007 20:24:47; Dark ; 33.0; 52; 16Bet Cet ; 2.04; 4500;occ; 66; 0;29212
 3; 2168.2; 01-OCT-2007 20:34:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29212
 4; 2386.3; 01-OCT-2007 20:38:35; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29212
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 6; 3428.5; 01-OCT-2007 20:55:58; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29212
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 9; 4588.8; 01-OCT-2007 21:15:18; Bright; 54.0; 166; 17Eps Leo ; 2.98; 6000;occ; 108; 0;29212
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 5; 91.1; 01-OCT-2007 21:40:56; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29213
 6; 175.4; 01-OCT-2007 21:42:20; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;29213
 7; 734.4; 01-OCT-2007 21:51:39; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29213
 8; 822.1; 01-OCT-2007 21:53:07; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29213
 9; 1143.1; 01-OCT-2007 21:58:28; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;29213

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17; 4589.0; 01-OCT-2007 22:55:54; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29213
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 6; 734.8; 01-OCT-2007 23:32:16; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29214
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11; 2386.4; 01-OCT-2007 23:59:47; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;29214
12; 2949.6; 02-OCT-2007 00:09:10; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;29214
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14; 3906.4; 02-OCT-2007 00:25:07; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29214
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11; 731.0; 01-OCT-2007 06:46:13; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29204
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2;-2039.1; 02-OCT-2007 03:47:50; Bright; 32.5; 82; 48Bet UMA ; 2.37; 10600;occ; 65; 0;29216
3;-1446.2; 02-OCT-2007 03:57:42; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29216
4; -870.7; 02-OCT-2007 04:07:18; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29216
5; -290.2; 02-OCT-2007 04:16:58; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29216
6; -133.1; 02-OCT-2007 04:19:36; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;29216
7; -34.3; 02-OCT-2007 04:21:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29216
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
10; 736.0; 02-OCT-2007 04:34:05; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29217
11; 823.7; 02-OCT-2007 04:35:32; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;29217
12; 1144.4; 02-OCT-2007 04:40:53; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29217
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
15; 2386.4; 02-OCT-2007 05:01:35; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29217
16; 2948.9; 02-OCT-2007 05:10:58; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29217
17; 3428.4; 02-OCT-2007 05:18:57; Bright; 31.5; 49; 1Alp UMi ; 1.99; 6300;occ; 63; 0;29217
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2;-2039.0; 02-OCT-2007 05:28:26; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29217
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
5; -289.8; 02-OCT-2007 05:57:35; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29217
6; -132.5; 02-OCT-2007 06:00:12; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29217
7; -33.6; 02-OCT-2007 06:01:51; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29217
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
10; 736.3; 02-OCT-2007 06:14:41; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29218
11; 824.0; 02-OCT-2007 06:16:09; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29218
12; 1144.7; 02-OCT-2007 06:21:29; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29218
13; 1559.1; 02-OCT-2007 06:28:24; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;29218
14; 2168.4; 02-OCT-2007 06:38:33; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29218
15; 2386.3; 02-OCT-2007 06:42:11; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;29218
16; 2948.6; 02-OCT-2007 06:51:33; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29218
17; 3428.4; 02-OCT-2007 06:59:33; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29218
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3;-1445.9; 02-OCT-2007 07:18:55; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29218
4; -870.0; 02-OCT-2007 07:28:31; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;29218
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
10; 179.9; 02-OCT-2007 07:46:01; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;29219
11; 736.7; 02-OCT-2007 07:55:17; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29219
12; 824.4; 02-OCT-2007 07:56:45; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29219
13; 1144.9; 02-OCT-2007 08:02:06; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29219
14; 1559.3; 02-OCT-2007 08:09:00; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 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
 16; 6773.0; 02-OCT-2007 09:35:54; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29219
 17; 6860.7; 02-OCT-2007 09:37:21; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29219
 18; 7181.1; 02-OCT-2007 09:42:42; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29219
 19; 7595.3; 02-OCT-2007 09:49:36; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 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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 8; 5166.9; 02-OCT-2007 10:49:43; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29220
 9; 5747.3; 02-OCT-2007 10:59:24; Dark ; 42.0; 65; Lam Vel ; 2.20; 4400;occ; 84; 0;29220
 10; 5824.8; 02-OCT-2007 11:00:41; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29220
 11; 5905.1; 02-OCT-2007 11:02:02; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29220
 12; 6004.5; 02-OCT-2007 11:03:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29220
 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
 16; 6861.0; 02-OCT-2007 11:17:57; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;29220
 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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 2; 2386.3; 02-OCT-2007 11:43:59; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29221
 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
 13; 6133.7; 02-OCT-2007 12:46:26; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29221
 14; 6218.1; 02-OCT-2007 12:47:50; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;29221
 15; 6773.7; 02-OCT-2007 12:57:06; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29221
 16; 6861.4; 02-OCT-2007 12:58:34; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;29221
 17; 7181.6; 02-OCT-2007 13:03:54; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29221
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 3; 2386.4; 02-OCT-2007 13:24:35; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29222
 4; 2947.6; 02-OCT-2007 13:33:56; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;29222
 5; 3428.3; 02-OCT-2007 13:41:57; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29222
 6; 3907.2; 02-OCT-2007 13:49:55; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29222
 7; 3997.5; 02-OCT-2007 13:51:26; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29222
 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
 10; 5748.1; 02-OCT-2007 14:20:36; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29222
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 12; 5906.3; 02-OCT-2007 14:23:15; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;29222
 13; 6006.1; 02-OCT-2007 14:24:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29222
 14; 6134.6; 02-OCT-2007 14:27:03; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29222
 15; 6218.9; 02-OCT-2007 14:28:27; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;29222
 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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 3; 2169.0; 02-OCT-2007 20:03:21; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29226
 4; 2386.4; 02-OCT-2007 20:06:59; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29226
 5; 2946.6; 02-OCT-2007 20:16:19; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;29226
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 7; 3907.6; 02-OCT-2007 20:32:20; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29226
 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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 4; -127.3; 02-OCT-2007 21:05:41; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;29226
 5; 101.6; 02-OCT-2007 21:09:30; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29227
 6; 185.9; 02-OCT-2007 21:10:54; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;29227
 7; 739.6; 02-OCT-2007 21:20:08; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29227
 8; 827.4; 02-OCT-2007 21:21:35; Dark ; 41.5; 9; Alp Eri ; 0.45; 24000;occ; 83; 0;29227
 9; 1147.1; 02-OCT-2007 21:26:55; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29227
 10; 1560.3; 02-OCT-2007 21:33:48; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;29227
 11; 2168.9; 02-OCT-2007 21:43:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29227
 12; 2386.4; 02-OCT-2007 21:47:35; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29227
 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
 18; 5169.7; 02-OCT-2007 22:33:58; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 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
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 6; 740.1; 02-OCT-2007 23:00:44; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29228
 7; 827.7; 02-OCT-2007 23:02:12; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;29228
 8; 1147.2; 02-OCT-2007 23:07:31; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;29228
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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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9; 115.5; 04-OCT-2007 03:20:30; Dark ; 46.0; 161; Tau Pup ; 2.93; 4500;occ; 92; 0;29245
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11; 746.5; 04-OCT-2007 03:31:01; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29245
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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
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17; 2172.5; 07-OCT-2007 04:00:32; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;29288
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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3; -1834.8; 07-OCT-2007 04:34:21; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29288
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
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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
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 12; 762.3; 07-OCT-2007 05:17:38; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29289
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 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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 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
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 9; 2391.1; 08-OCT-2007 00:11:22; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29300
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 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
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 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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 7; -160.3; 07-OCT-2007 06:42:51; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;29289
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 9; 22.6; 07-OCT-2007 06:45:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290
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 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
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 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
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 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
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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
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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
18; 6273.0; 07-OCT-2007 11:51:17; Dark ; 52.5; 2; Alp Car ;-0.74; 7000;occ; 105; 0;29292
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
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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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17; 6189.8; 07-OCT-2007 13:30:29; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29293
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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
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7;	3425.2;	21-OCT-2007	12:04:10;	Bright;	;	36.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	72;	0;	29493
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11;	4222.9;	21-OCT-2007	12:17:28;	Bright;	;	41.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	82;	0;	29493
12;	4696.2;	21-OCT-2007	12:25:21;	Bright;	;	41.0;	51;	41Gam1	Leo	;	2.01;	4500;	occ;	82;	0;	29493
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19;	6860.8;	21-OCT-2007	13:01:26;	Dark	;	37.5;	143;	Alp	Hyi	;	2.86;	7200;	occ;	75;	0;	29493
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4;	2534.3;	21-OCT-2007	13:29:55;	Bright;	;	38.0;	53;	43Bet	And	;	2.05;	3300;	occ;	76;	0;	29494
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9;	3920.1;	21-OCT-2007	13:53:01;	Bright;	;	48.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	96;	0;	29494
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11;	4223.0;	21-OCT-2007	13:58:04;	Bright;	;	53.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	106;	0;	29494
12;	4696.5;	21-OCT-2007	14:05:57;	Bright;	;	41.0;	51;	41Gam1	Leo	;	2.01;	4500;	occ;	82;	0;	29494
13;	5811.0;	21-OCT-2007	14:24:32;	Dark	;	40.5;	113;	Mu	Vel	;	2.69;	5000;	occ;	81;	0;	29494
14;	5895.5;	21-OCT-2007	14:25:56;	Dark	;	48.5;	65;	Lam	Vel	;	2.20;	4400;	occ;	97;	0;	29494
15;	5980.5;	21-OCT-2007	14:27:21;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	29494
16;	6096.8;	21-OCT-2007	14:29:18;	Dark	;	43.0;	34;	Gam2	Vel	;	1.79;	23000;	occ;	86;	0;	29494
17;	6197.7;	21-OCT-2007	14:30:59;	Dark	;	38.5;	29;	Bet	Car	;	1.67;	10200;	occ;	77;	0;	29494
18;	6435.9;	21-OCT-2007	14:34:57;	Dark	;	47.0;	2;	Alp	Car	;	-0.74;	7000;	occ;	94;	0;	29494
19;	6861.0;	21-OCT-2007	14:42:02;	Dark	;	37.5;	143;	Alp	Hyi	;	2.86;	7200;	occ;	75;	0;	29494
20;	6946.5;	21-OCT-2007	14:43:27;	Dark	;	43.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	87;	0;	29494
21;	7117.0;	21-OCT-2007	14:46:18;	Dark	;	43.5;	157;	The1	Eri	;	2.91;	9300;	occ;	87;	0;	29494

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1;	1598.8;	21-OCT-2007	14:54:56;	Dark	;	44.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	89;	0;	29495
2;	2170.3;	21-OCT-2007	15:04:27;	Bright;	;	36.0;	140;	88Gam	Peg	;	2.83;	26000;	occ;	72;	0;	29495
3;	2404.9;	21-OCT-2007	15:08:22;	Bright;	;	36.0;	58;	21Alp	And	;	2.07;	11000;	occ;	72;	0;	29495
4;	2534.0;	21-OCT-2007	15:10:31;	Bright;	;	40.5;	53;	43Bet	And	;	2.05;	3300;	occ;	81;	0;	29495
5;	2875.1;	21-OCT-2007	15:16:12;	Bright;	;	35.0;	68;	18Alp	Cas	;	2.22;	4500;	occ;	70;	0;	29495
6;	2953.5;	21-OCT-2007	15:17:30;	Bright;	;	38.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	76;	0;	29495
7;	3425.3;	21-OCT-2007	15:25:22;	Bright;	;	36.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	72;	0;	29495
8;	3623.3;	21-OCT-2007	15:28:40;	Bright;	;	35.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	71;	0;	29495
9;	3920.3;	21-OCT-2007	15:33:37;	Bright;	;	37.5;	36;	50Alp	UMa	;	1.80;	6300;	occ;	75;	0;	29495
10;	4014.6;	21-OCT-2007	15:35:11;	Bright;	;	34.0;	82;	48Bet	UMa	;	2.37;	10600;	occ;	68;	0;	29495
11;	4223.1;	21-OCT-2007	15:38:40;	Bright;	;	37.5;	174;	52Psi	UMa	;	3.00;	4400;	occ;	75;	0;	29495
12;	4697.0;	21-OCT-2007	15:46:34;	Bright;	;	40.5;	51;	41Gam1	Leo	;	2.01;	4500;	occ;	81;	0;	29495
13;	5811.3;	21-OCT-2007	16:05:08;	Dark	;	38.0;	113;	Mu	Vel	;	2.69;	5000;	occ;	76;	0;	29495
14;	5896.3;	21-OCT-2007	16:06:33;	Dark	;	55.0;	65;	Lam	Vel	;	2.20;	4400;	occ;	110;	0;	29495
15;	5981.3;	21-OCT-2007	16:07:58;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	29495
16;	6097.7;	21-OCT-2007	16:09:54;	Dark	;	42.0;	34;	Gam2	Vel	;	1.79;	23000;	occ;	84;	0;	29495
17;	6198.1;	21-OCT-2007	16:11:35;	Dark	;	38.5;	29;	Bet	Car	;	1.67;	10200;	occ;	77;	0;	29495
18;	6436.8;	21-OCT-2007	16:15:34;	Dark	;	47.0;	2;	Alp	Car	;	-0.74;	7000;	occ;	94;	0;	29495
19;	6861.3;	21-OCT-2007	16:22:38;	Dark	;	36.5;	143;	Alp	Hyi	;	2.86;	7200;	occ;	73;	0;	29495
20;	6946.9;	21-OCT-2007	16:24:04;	Dark	;	46.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	93;	0;	29495
21;	7117.7;	21-OCT-2007	16:26:54;	Dark	;	42.5;	157;	The1	Eri	;	2.91;	9300;	occ;	85;	0;	29495

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1;	1598.9;	21-OCT-2007	16:35:32;	Dark	;	43.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	86;	0;	29496
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2; 2170.4; 21-OCT-2007 16:45:03; Bright; 34.5; 140; 88Gam Peg ; 2.83; 26000;occ; 69; 0;29496
3; 2405.0; 21-OCT-2007 16:48:58; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29496
4; 2533.8; 21-OCT-2007 16:51:07; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;29496
5; 2875.0; 21-OCT-2007 16:56:48; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29496
6; 2953.4; 21-OCT-2007 16:58:06; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29496
7; 3425.3; 21-OCT-2007 17:05:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29496
8; 3623.5; 21-OCT-2007 17:09:16; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29496
9; 3920.1; 21-OCT-2007 17:14:13; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29496
10; 4014.6; 21-OCT-2007 17:15:47; Bright; 36.0; 82; 48Bet UMa ; 2.37; 10600;occ; 72; 0;29496
11; 4223.1; 21-OCT-2007 17:19:16; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29496
12; 4697.3; 21-OCT-2007 17:27:10; Bright; 39.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 79; 0;29496
13; 5811.5; 21-OCT-2007 17:45:44; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;29496
14; 5896.9; 21-OCT-2007 17:47:10; Dark ; 52.0; 65; Lam Vel ; 2.20; 4400;occ; 104; 0;29496
15; 5981.9; 21-OCT-2007 17:48:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29496
16; 6075.8; 21-OCT-2007 17:50:09; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;29496
17; 6198.4; 21-OCT-2007 17:52:11; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29496
18; 6437.6; 21-OCT-2007 17:56:10; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0;29496
19; 6861.6; 21-OCT-2007 18:03:14; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29496
20; 6947.1; 21-OCT-2007 18:04:40; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29496

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2; 1081.7; 21-OCT-2007 18:07:30; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;29497
3; 1599.0; 21-OCT-2007 18:16:08; Dark ; 40.5; 52; 16Bet Cet ; 2.04; 4500;occ; 81; 0;29497
4; 2170.4; 21-OCT-2007 18:25:39; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;29497
5; 2405.0; 21-OCT-2007 18:29:34; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29497
6; 2533.6; 21-OCT-2007 18:31:42; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29497
7; 2874.9; 21-OCT-2007 18:37:24; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29497
8; 2953.3; 21-OCT-2007 18:38:42; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29497
9; 3425.1; 21-OCT-2007 18:46:34; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29497
10; 3623.7; 21-OCT-2007 18:49:52; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29497
11; 3919.9; 21-OCT-2007 18:54:49; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;29497
12; 4014.3; 21-OCT-2007 18:56:23; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29497
13; 4223.3; 21-OCT-2007 18:59:52; Bright; 53.0; 174; 52Psi UMa ; 3.00; 4400;occ; 106; 0;29497
14; 4697.5; 21-OCT-2007 19:07:46; Bright; 59.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 118; 0;29497
15; 5811.8; 21-OCT-2007 19:26:21; Dark ; 41.0; 113; Mu Vel ; 2.69; 5000;occ; 82; 0;29497
16; 5897.6; 21-OCT-2007 19:27:46; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;29497
17; 5982.5; 21-OCT-2007 19:29:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29497
18; 6076.3; 21-OCT-2007 19:30:45; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29497
19; 6198.6; 21-OCT-2007 19:32:47; Dark ; 42.5; 29; Bet Car ; 1.67; 10200;occ; 85; 0;29497
20; 6438.3; 21-OCT-2007 19:36:47; Dark ; 62.0; 2; Alp Car ;-0.74; 7000;occ; 124; 0;29497
21; 6861.7; 21-OCT-2007 19:43:51; Dark ; 33.5; 143; Alp Hyi ; 2.86; 7200;occ; 67; 0;29497

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3; -52.8; 21-OCT-2007 21:09:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29498
4; 41.0; 21-OCT-2007 21:11:22; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;29499
5; 162.8; 21-OCT-2007 21:13:23; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;29499
6; 403.2; 21-OCT-2007 21:17:24; Dark ; 47.0; 2; Alp Car ;-0.74; 7000;occ; 94; 0;29499
7; 825.9; 21-OCT-2007 21:24:27; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29499
8; 911.5; 21-OCT-2007 21:25:52; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29499
9; 1082.8; 21-OCT-2007 21:28:43; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29499
10; 1599.2; 21-OCT-2007 21:37:20; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;29499
11; 2170.6; 21-OCT-2007 21:46:51; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29499
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13; 2533.1; 21-OCT-2007 21:52:54; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;29499
14; 2874.5; 21-OCT-2007 21:58:35; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29499
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16; 3425.0; 21-OCT-2007 22:07:46; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29499
17; 3624.0; 21-OCT-2007 22:11:05; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;29499
18; 3919.9; 21-OCT-2007 22:16:01; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29499
19; 4014.3; 21-OCT-2007 22:17:35; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;29499
20; 4223.2; 21-OCT-2007 22:21:04; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;29499
21; 4697.8; 21-OCT-2007 22:28:59; Bright; 57.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 115; 0;29499

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2; -137.0; 21-OCT-2007 22:49:00; Dark ; 53.5; 65; Lam Vel ; 2.20; 4400;occ; 107; 0;29499
3; -52.2; 21-OCT-2007 22:50:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29499
4; 41.5; 21-OCT-2007 22:51:58; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29500

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6; 403.9; 21-OCT-2007 22:58:00; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;29500
7; 826.2; 21-OCT-2007 23:05:03; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29500
8; 911.7; 21-OCT-2007 23:06:28; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;29500
9; 1083.2; 21-OCT-2007 23:09:20; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29500
10; 1599.4; 21-OCT-2007 23:17:56; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;29500
11; 2170.7; 21-OCT-2007 23:27:27; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;29500
12; 2405.1; 21-OCT-2007 23:31:22; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;29500
13; 2532.9; 21-OCT-2007 23:33:29; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29500
14; 2874.4; 21-OCT-2007 23:39:11; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29500
15; 2952.7; 21-OCT-2007 23:40:29; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29500
16; 3425.1; 21-OCT-2007 23:48:22; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29500
17; 3624.2; 21-OCT-2007 23:51:41; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29500
18; 3919.9; 21-OCT-2007 23:56:36; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29500
19; 4014.2; 21-OCT-2007 23:58:11; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29500
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21; 4698.2; 22-OCT-2007 00:09:35; Bright; 40.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 80; 0;29500
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3; 163.3; 22-OCT-2007 00:34:36; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29501
4; 404.8; 22-OCT-2007 00:38:37; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;29501
5; 826.4; 22-OCT-2007 00:45:39; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29501
6; 911.9; 22-OCT-2007 00:47:04; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29501
7; 1083.7; 22-OCT-2007 00:49:56; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;29501
8; 1599.6; 22-OCT-2007 00:58:32; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;29501
9; 2170.8; 22-OCT-2007 01:08:03; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29501
10; 2405.1; 22-OCT-2007 01:11:58; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29501
11; 2532.7; 22-OCT-2007 01:14:05; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;29501
12; 2874.3; 22-OCT-2007 01:19:47; Bright; 38.5; 68; 18Alp Cas ; 2.22; 4500;occ; 77; 0;29501
13; 2952.6; 22-OCT-2007 01:21:05; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;29501
14; 3425.1; 22-OCT-2007 01:28:57; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29501
15; 3624.4; 22-OCT-2007 01:32:17; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29501
16; 3919.8; 22-OCT-2007 01:37:12; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29501
17; 4014.1; 22-OCT-2007 01:38:47; Bright; 54.0; 82; 48Bet UMa ; 2.37; 10600;occ; 108; 0;29501
18; 4223.4; 22-OCT-2007 01:42:16; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;29501
19; 4698.7; 22-OCT-2007 01:50:11; Bright; 38.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 77; 0;29501
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3; 163.6; 22-OCT-2007 02:15:12; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29502
4; 405.6; 22-OCT-2007 02:19:14; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29502
5; 826.9; 22-OCT-2007 02:26:15; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29502
6; 912.2; 22-OCT-2007 02:27:41; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;29502
7; 1083.9; 22-OCT-2007 02:30:32; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29502
8; 1599.8; 22-OCT-2007 02:39:08; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;29502
9; 2170.9; 22-OCT-2007 02:48:39; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29502
10; 2405.3; 22-OCT-2007 02:52:34; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29502
11; 2532.5; 22-OCT-2007 02:54:41; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;29502
12; 2874.2; 22-OCT-2007 03:00:22; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29502
13; 2952.4; 22-OCT-2007 03:01:41; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29502
14; 3425.0; 22-OCT-2007 03:09:33; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;29502
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9; 61.7; 24-OCT-2007 07:52:40; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29534
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 13; 5823.3; 24-OCT-2007 14:30:29; Dark ; 37.5; 113; Mu Vel ; 2.69; 5000;occ; 75; 0;29537
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