

GOMOS Daily Report 23-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	25OCT2007 05:40:24
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (23OCT2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (24OCT2007 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)

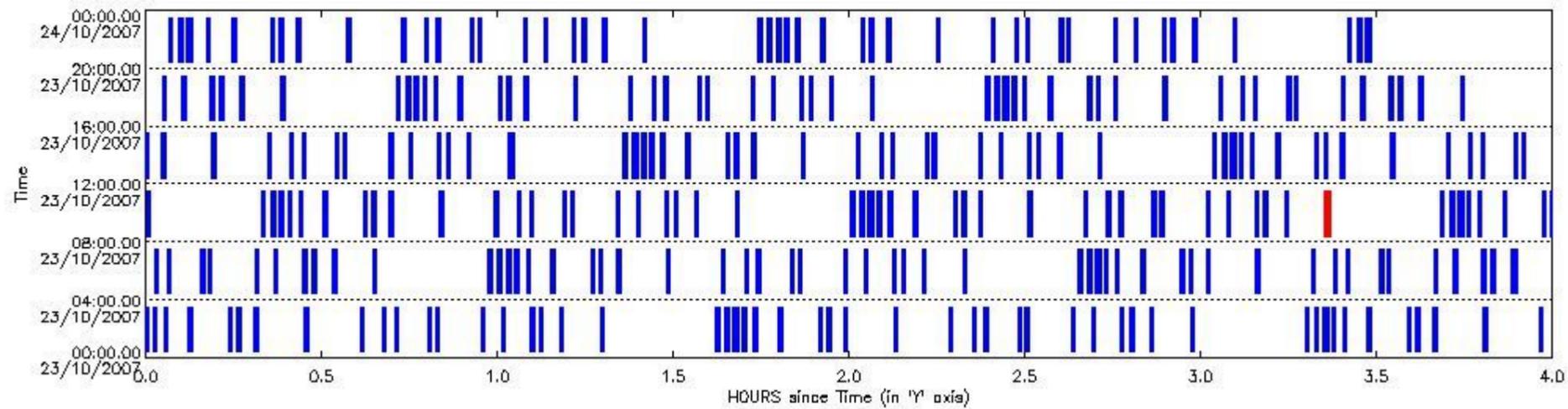
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

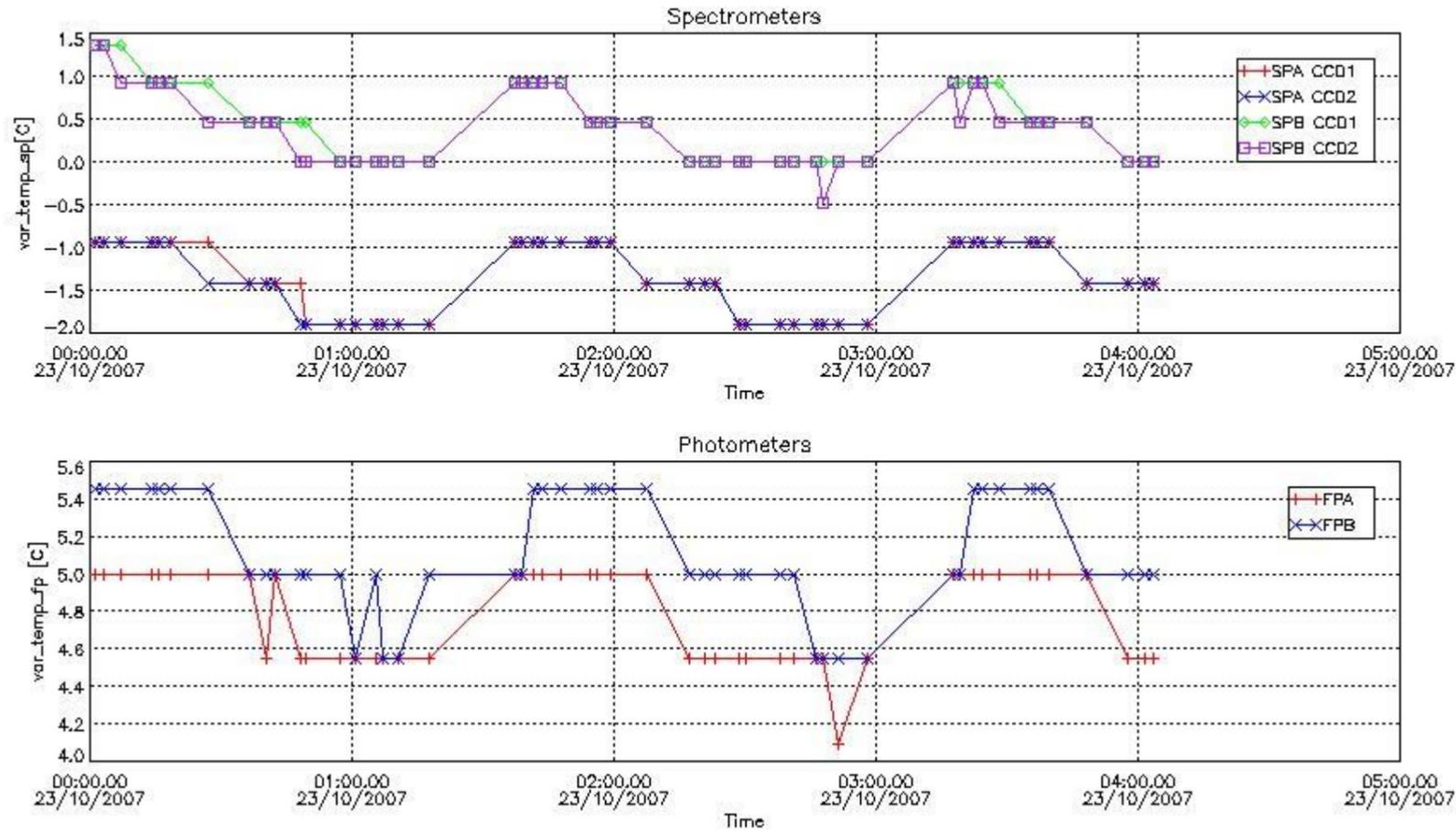
UTC start time	Star name	Star ID	Orbit
23-OCT-2007 11:21:11	68DelLeo	96	29521

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_1PNPDE20071023_000106_000000412062_00403_29515_6104.N1	23-OCT-2007 00:01:06	Dark	40.500	46	Del Vel	1.9540	10600.	81	29515	No
2	GOM_TRA_1PNPDE20071023_000303_000000382062_00403_29515_6105.N1	23-OCT-2007 00:03:03	Dark	37.500	29	Bet Car	1.6720	10200.	75	29515	No
3	GOM_TRA_1PNPDE20071023_000712_000000492062_00403_29515_6106.N1	23-OCT-2007 00:07:12	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	29515	No
4	GOM_TRA_1PNPDE20071023_001406_000000392062_00403_29515_6107.N1	23-OCT-2007 00:14:06	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	29515	No
5	GOM_TRA_1PNPDE20071023_001531_000000432062_00403_29515_6108.N1	23-OCT-2007 00:15:31	Dark	43.000	9	Alp Eri	0.45300	24000.	86	29515	No
6	GOM_TRA_1PNPDE20071023_001825_000000442062_00403_29515_6109.N1	23-OCT-2007 00:18:25	Straylight	44.000	157	The1Eri	2.9060	9300.0	88	29515	No
7	GOM_TRA_1PNPDE20071023_002657_000000442062_00403_29515_6110.N1	23-OCT-2007 00:26:57	Straylight	44.000	52	16Bet Cet	2.0370	4500.0	88	29515	No
8	GOM_TRA_1PNPDE20071023_003627_000000372062_00403_29515_6111.N1	23-OCT-2007 00:36:27	Bright	36.500	140	88Gam Peg	2.8340	26000.	73	29515	No
9	GOM_TRA_1PNPDE20071023_004022_000000362062_00403_29515_6112.N1	23-OCT-2007 00:40:22	Bright	36.000	58	21Alp And	2.0730	11000.	72	29515	No
10	GOM_TRA_1PNPDE20071023_004225_000000402062_00403_29515_6113.N1	23-OCT-2007 00:42:25	Bright	40.000	53	43Bet And	2.0480	3300.0	80	29515	No

11	GOM_TRA_1PNPDE20071023_004808_000000352062_00403_29515_6114.N1	23-OCT-2007 00:48:08	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	29515	No
12	GOM_TRA_1PNPDE20071023_004926_000000372062_00403_29515_6115.N1	23-OCT-2007 00:49:26	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	29515	No
13	GOM_TRA_1PNPDE20071023_005720_000000332062_00403_29515_6116.N1	23-OCT-2007 00:57:20	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	29515	No
14	GOM_TRA_1PNPDE20071023_010043_000000362062_00403_29515_6117.N1	23-OCT-2007 01:00:43	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	29515	No
15	GOM_TRA_1PNPDE20071023_010535_000000392062_00403_29515_6118.N1	23-OCT-2007 01:05:35	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	29515	No
16	GOM_TRA_1PNPDE20071023_010710_000000372062_00403_29515_6119.N1	23-OCT-2007 01:07:10	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	29515	No
17	GOM_TRA_1PNPDE20071023_011040_000000342062_00403_29515_6120.N1	23-OCT-2007 01:10:40	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	29515	No
18	GOM_TRA_1PNPDE20071023_011737_000000352062_00403_29515_6121.N1	23-OCT-2007 01:17:37	Bright	34.500	96	68Del Leo	2.5600	9300.0	69	29515	No
19	GOM_TRA_1PNPDE20071023_013712_000000412062_00403_29515_6238.N1	23-OCT-2007 01:37:12	Dark	41.000	113	Mu Vel	2.6920	5000.0	82	29515	No
20	GOM_TRA_1PNPDE20071023_013846_000000472062_00403_29515_6239.N1	23-OCT-2007 01:38:46	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	29515	No
21	GOM_TRA_1PNPDE20071023_014142_000000402062_00404_29516_6240.N1	23-OCT-2007 01:41:42	Dark	40.000	46	Del Vel	1.9540	10600.	80	29516	No
22	GOM_TRA_1PNPDE20071023_014339_000000392062_00404_29516_6241.N1	23-OCT-2007 01:43:39	Dark	39.000	29	Bet Car	1.6720	10200.	78	29516	No
23	GOM_TRA_1PNPDE20071023_014748_000000482062_00404_29516_6242.N1	23-OCT-2007 01:47:48	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	29516	No
24	GOM_TRA_1PNPDE20071023_015442_000000362062_00404_29516_6243.N1	23-OCT-2007 01:54:42	Dark	36.000	143	Alp Hyi	2.8570	7200.0	72	29516	No
25	GOM_TRA_1PNPDE20071023_015607_000000502062_00404_29516_6244.N1	23-OCT-2007 01:56:07	Dark	50.000	9	Alp Eri	0.45300	24000.	100	29516	No
26	GOM_TRA_1PNPDE20071023_015901_000000432062_00404_29516_6245.N1	23-OCT-2007 01:59:01	Straylight	42.500	157	The1Eri	2.9060	9300.0	85	29516	No
27	GOM_TRA_1PNPDE20071023_020733_000000442062_00404_29516_6246.N1	23-OCT-2007 02:07:33	Straylight	44.000	52	16Bet Cet	2.0370	4500.0	88	29516	No
28	GOM_TRA_1PNPDE20071023_021704_000000362062_00404_29516_6247.N1	23-OCT-2007 02:17:04	Bright	36.000	140	88Gam Peg	2.8340	26000.	72	29516	No
29	GOM_TRA_1PNPDE20071023_022058_000000352062_00404_29516_6248.N1	23-OCT-2007 02:20:58	Bright	34.500	58	21Alp And	2.0730	11000.	69	29516	No
30	GOM_TRA_1PNPDE20071023_022301_000000392062_00404_29516_6249.N1	23-OCT-2007 02:23:01	Bright	39.000	53	43Bet And	2.0480	3300.0	78	29516	No
31	GOM_TRA_1PNPDE20071023_022844_000000372062_00404_29516_6250.N1	23-OCT-2007 02:28:44	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	29516	No
32	GOM_TRA_1PNPDE20071023_023002_000000362062_00404_29516_6251.N1	23-OCT-2007 02:30:02	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29516	No
33	GOM_TRA_1PNPDE20071023_023756_000000322062_00404_29516_6252.N1	23-OCT-2007 02:37:56	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	29516	No
34	GOM_TRA_1PNPDE20071023_024119_000000362062_00404_29516_6373.N1	23-OCT-2007 02:41:19	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	29516	No
35	GOM_TRA_1PNPDE20071023_024611_000000382062_00404_29516_6374.N1	23-OCT-2007 02:46:11	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	29516	No
36	GOM_TRA_1PNPDE20071023_024745_000000542062_00404_29516_6375.N1	23-OCT-2007 02:47:45	Bright	54.000	82	48Bet UMa	2.3650	10600.	108	29516	No
37	GOM_TRA_1PNPDE20071023_025116_000000362062_00404_29516_6376.N1	23-OCT-2007 02:51:16	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	29516	No
38	GOM_TRA_1PNPDE20071023_025813_000000352062_00404_29516_6377.N1	23-OCT-2007 02:58:13	Bright	35.000	96	68Del Leo	2.5600	9300.0	70	29516	No
39	GOM_TRA_1PNPDE20071023_031748_000000382062_00404_29516_6378.N1	23-OCT-2007 03:17:48	Dark	38.000	113	Mu Vel	2.6920	5000.0	76	29516	No
40	GOM_TRA_1PNPDE20071023_031922_000000442062_00404_29516_6379.N1	23-OCT-2007 03:19:22	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	29516	No
41	GOM_TRA_1PNPDE20071023_032219_000000402062_00405_29517_6380.N1	23-OCT-2007 03:22:19	Dark	40.000	46	Del Vel	1.9540	10600.	80	29517	No
42	GOM_TRA_1PNPDE20071023_032415_000000372062_00405_29517_6381.N1	23-OCT-2007 03:24:15	Dark	36.500	29	Bet Car	1.6720	10200.	73	29517	No
43	GOM_TRA_1PNPDE20071023_032825_000000492062_00405_29517_6382.N1	23-OCT-2007 03:28:25	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	29517	No
44	GOM_TRA_1PNPDE20071023_033518_000000372062_00405_29517_6383.N1	23-OCT-2007 03:35:18	Dark	36.500	143	Alp Hyi	2.8570	7200.0	73	29517	No
45	GOM_TRA_1PNPDE20071023_033643_000000412062_00405_29517_6384.N1	23-OCT-2007 03:36:43	Dark	40.500	9	Alp Eri	0.45300	24000.	81	29517	No
46	GOM_TRA_1PNPDE20071023_033938_000000422062_00405_29517_6385.N1	23-OCT-2007 03:39:38	Straylight	41.500	157	The1Eri	2.9060	9300.0	83	29517	No
47	GOM_TRA_1PNPDE20071023_034809_000000452062_00405_29517_6386.N1	23-OCT-2007 03:48:09	Straylight	45.000	52	16Bet Cet	2.0370	4500.0	90	29517	No
48	GOM_TRA_1PNPDE20071023_035740_000000362062_00405_29517_6387.N1	23-OCT-2007 03:57:40	Bright	36.000	140	88Gam Peg	2.8340	26000.	72	29517	No
49	GOM_TRA_1PNPDE20071023_040134_000000372062_00405_29517_6388.N1	23-OCT-2007 04:01:34	Bright	36.500	58	21Alp And	2.0730	11000.	73	29517	No
50	GOM_TRA_1PNPDE20071023_040337_000000382062_00405_29517_6389.N1	23-OCT-2007 04:03:37	Bright	38.000	53	43Bet And	2.0480	3300.0	76	29517	No

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



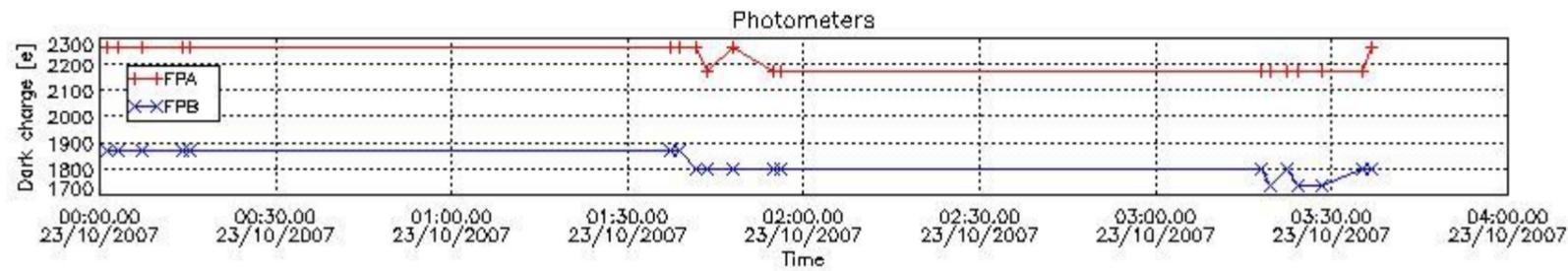
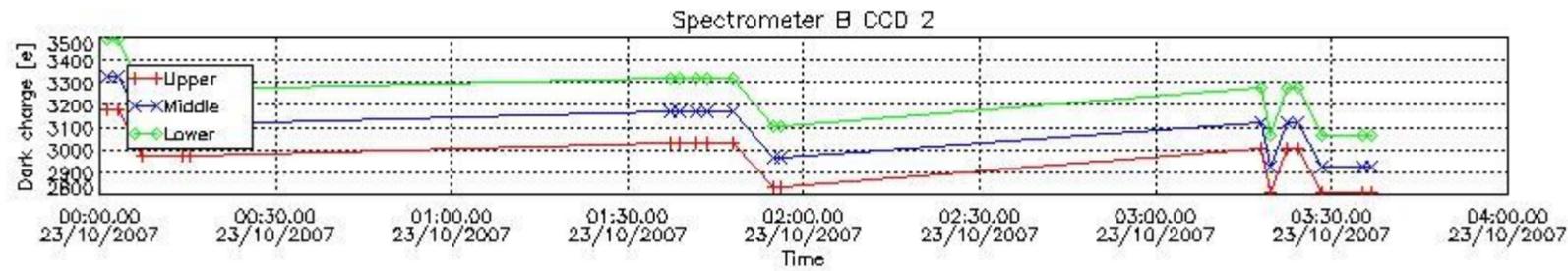
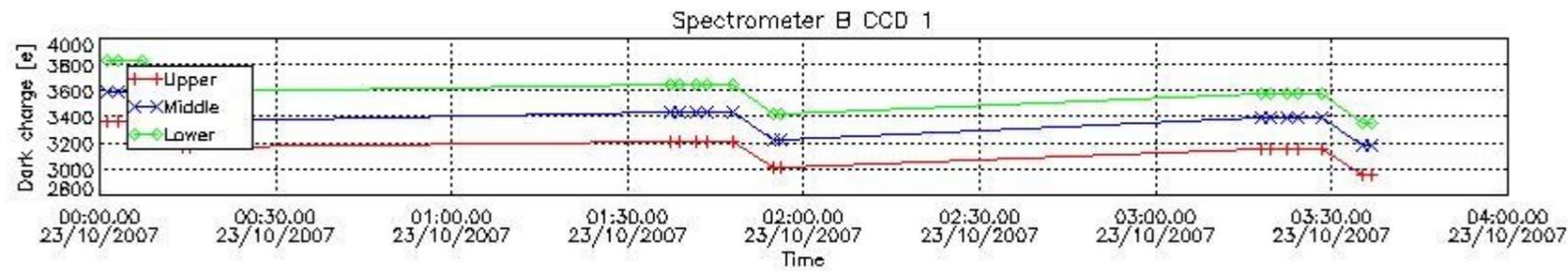
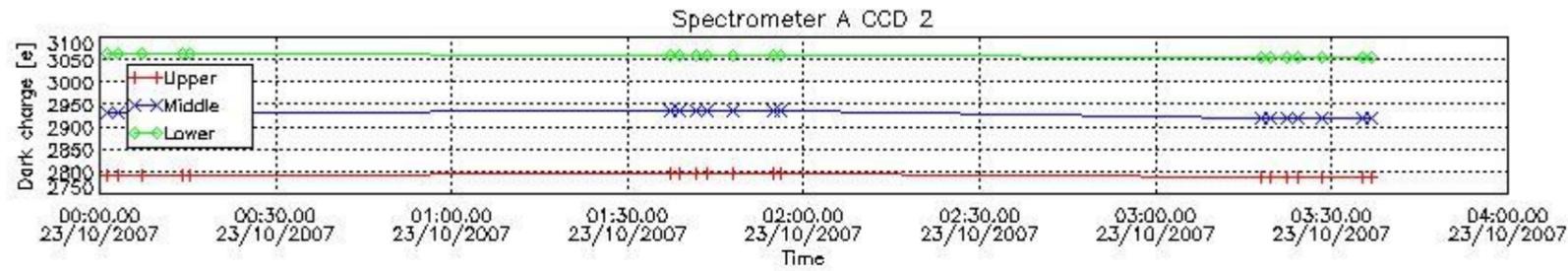
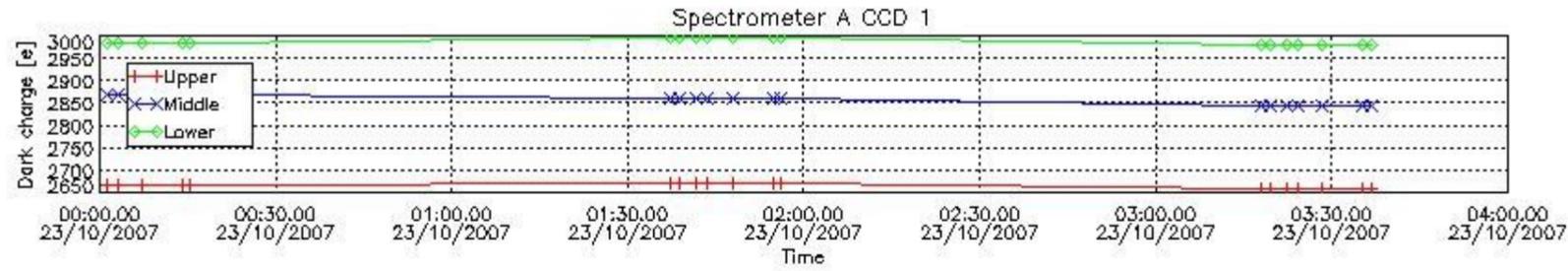
4. Overview of dark signal processing per product

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



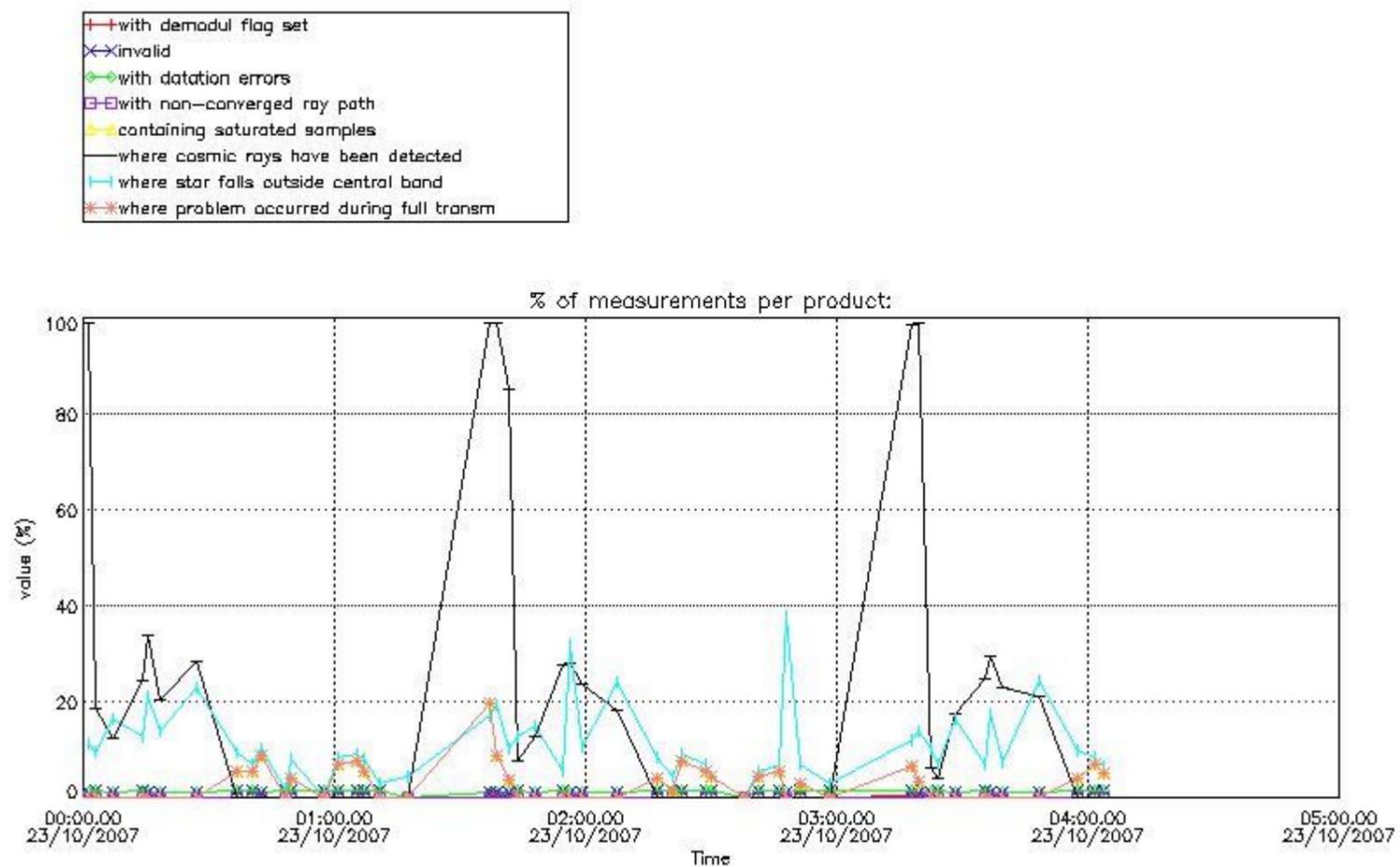
5. Demodulation flag and quality information monitoring

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.

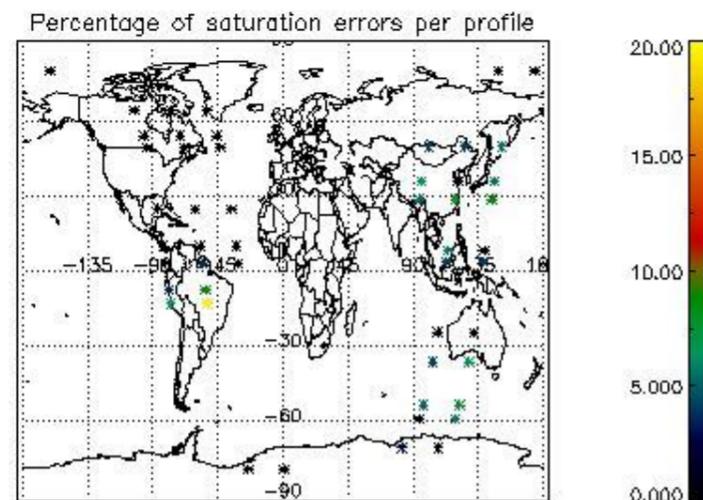
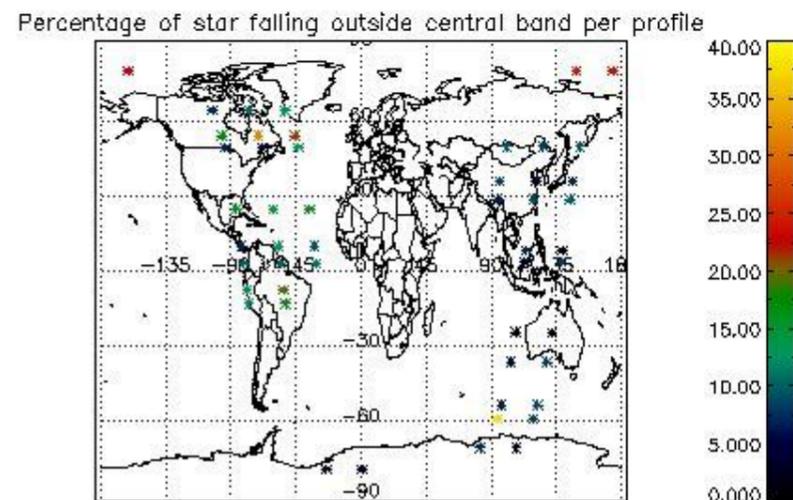
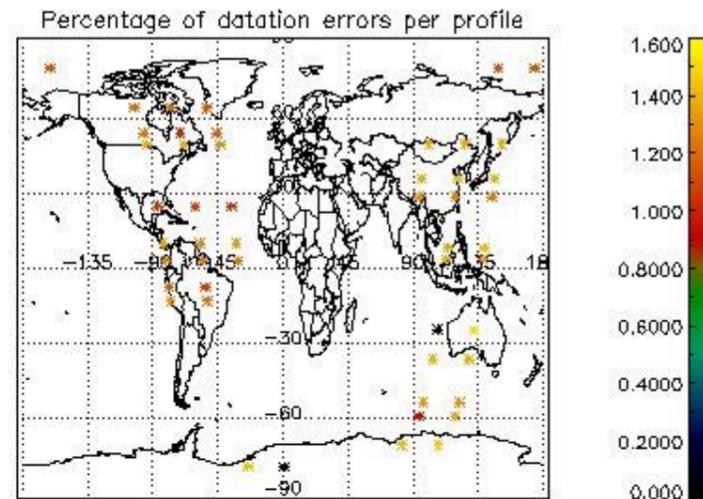
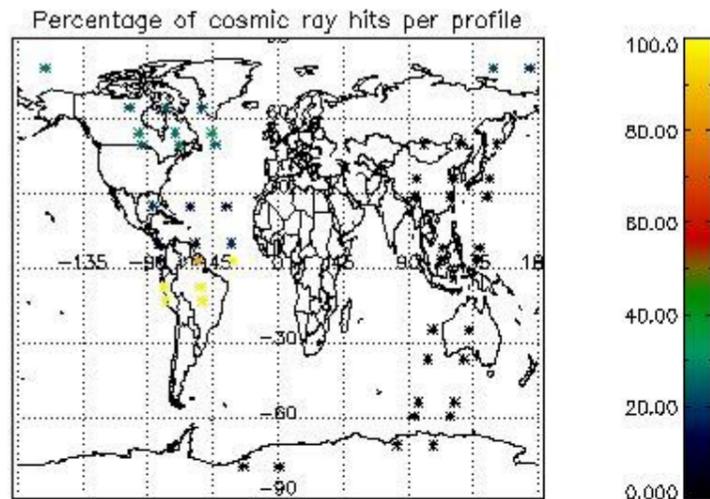
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.0000 %
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)



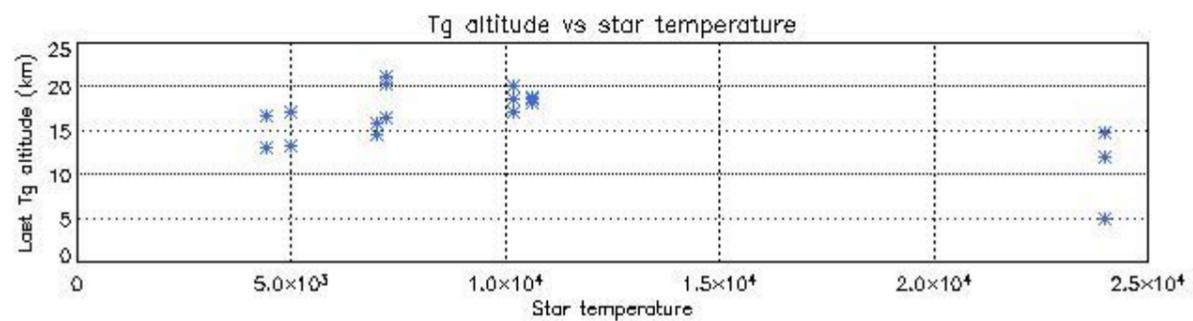
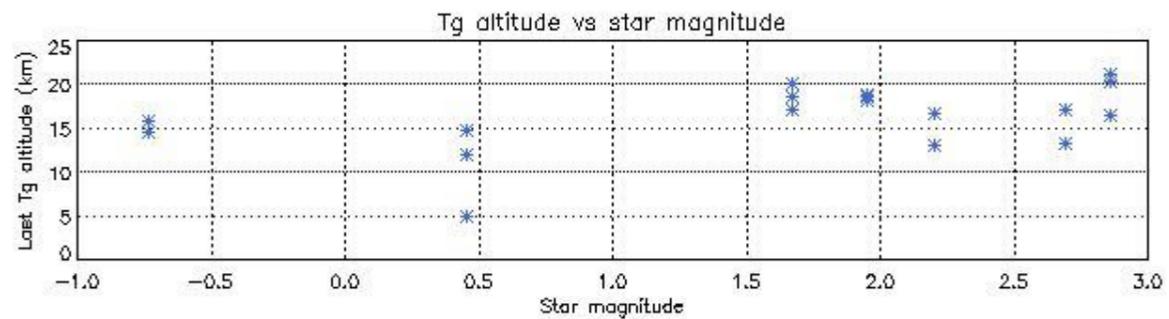
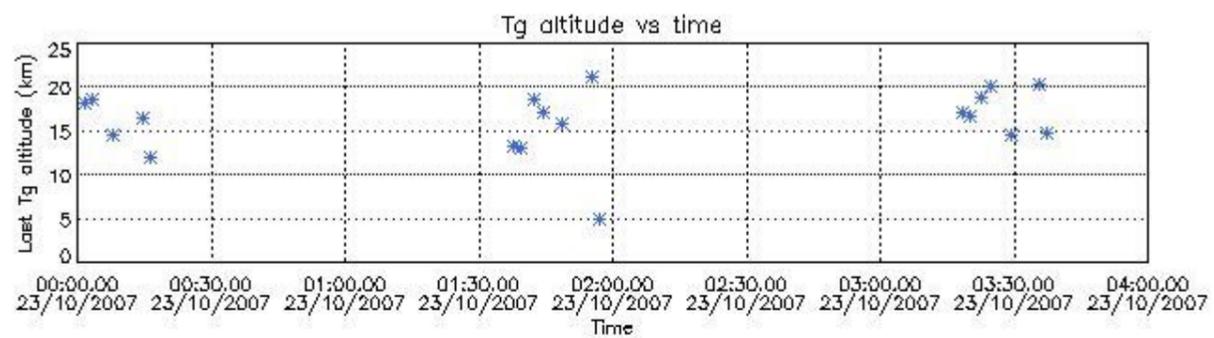
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.084	20.800	NaN
St. deviation:	3.7295	4.6920	NaN
Maximum:	21.061	29.857	NaN
Minimum:	4.8954	3.7606	NaN
Number of data:	19.000	25.000	NaN

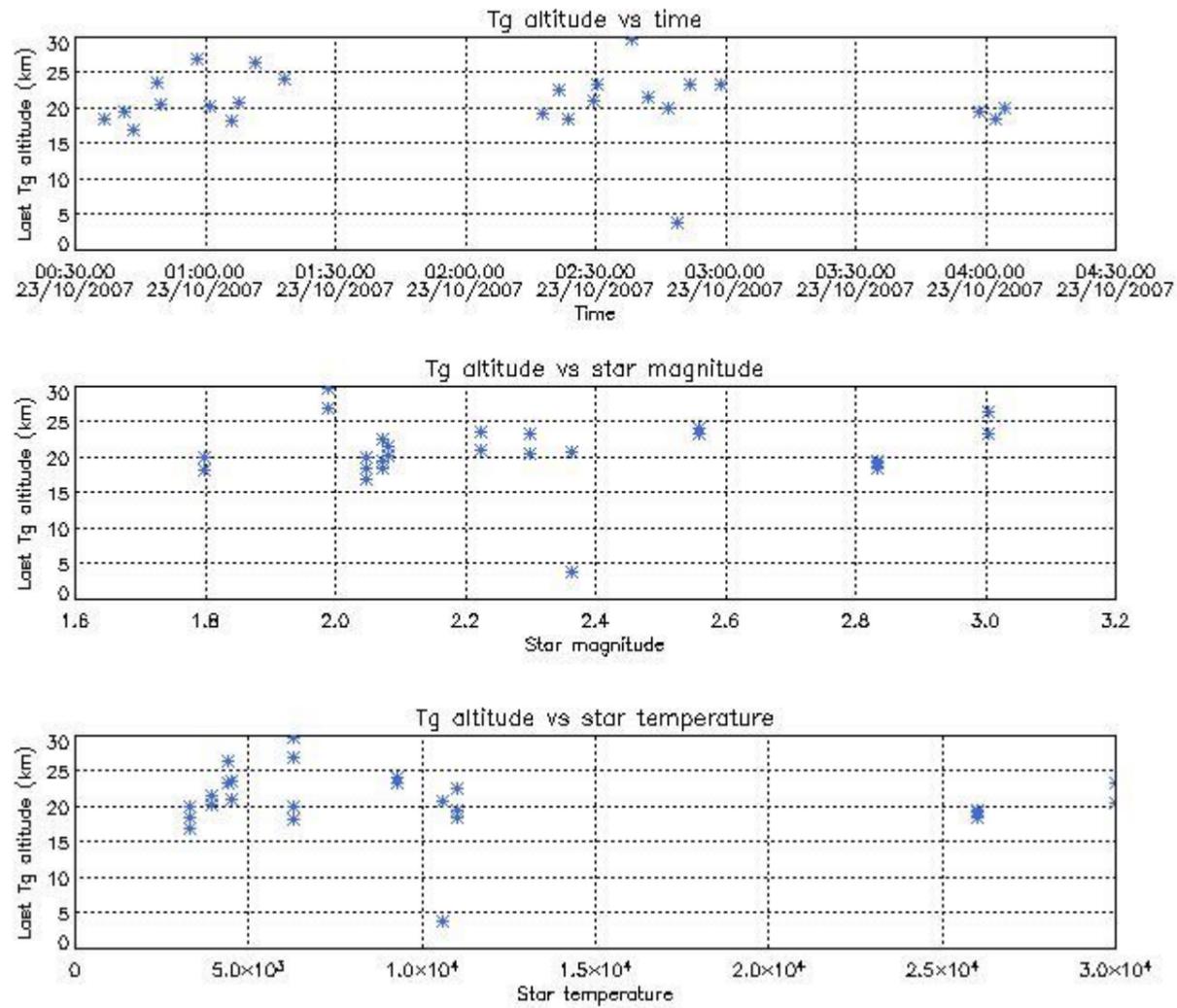
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

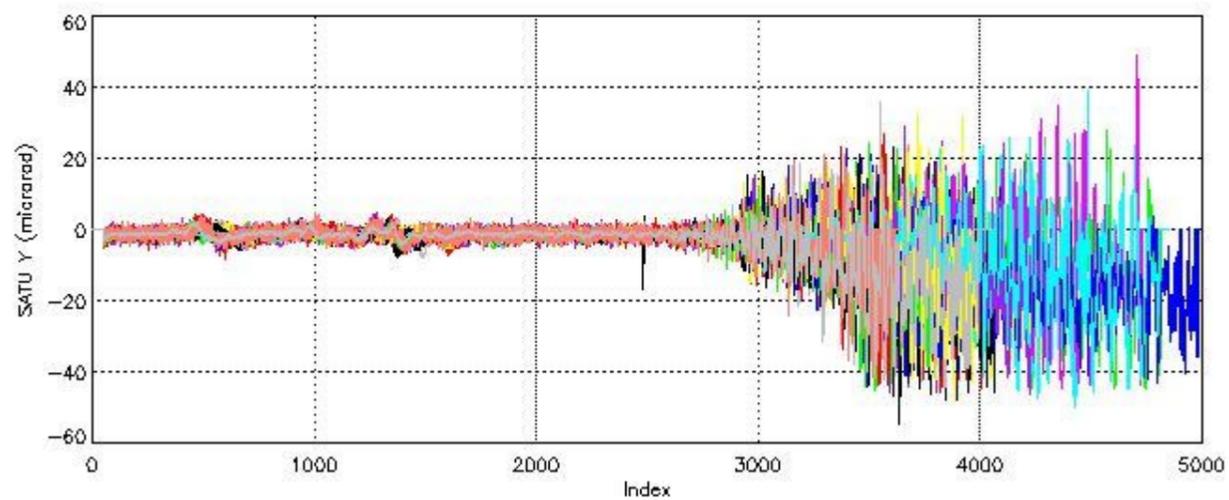
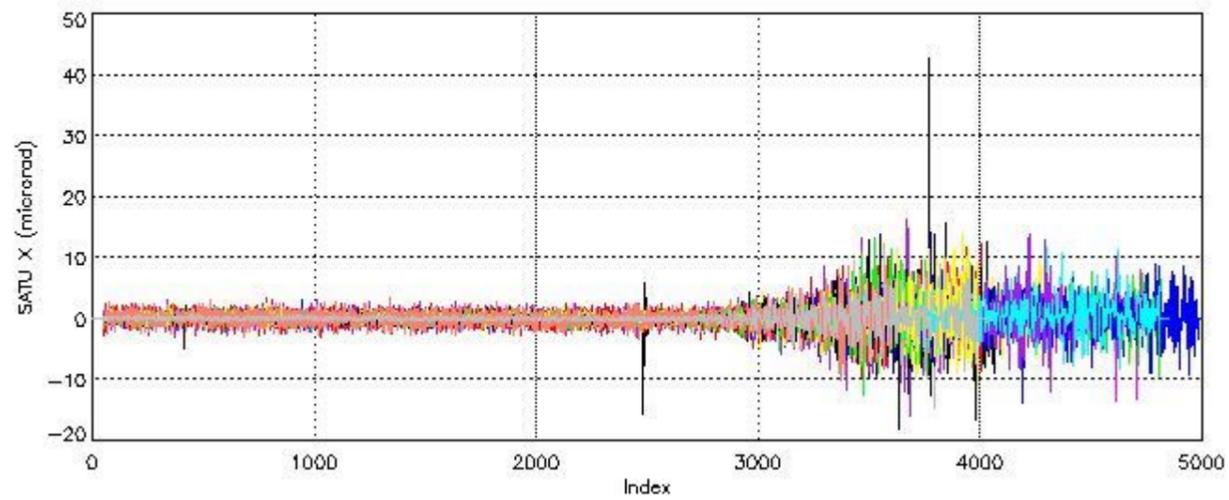


7. Star Acquisition and Tracking Unit (SATU)

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:	0.077157	-1.3039	0.030762	-1.2647
St. deviation:	0.43026	1.1801	0.73576	1.4656
Maximum:	3.2000	4.4000	5.4000	7.4000
Minimum:	-5.1000	-8.3000	-6.1000	-9.5000

Number of data:	17350.	17350.	20650.	20650.
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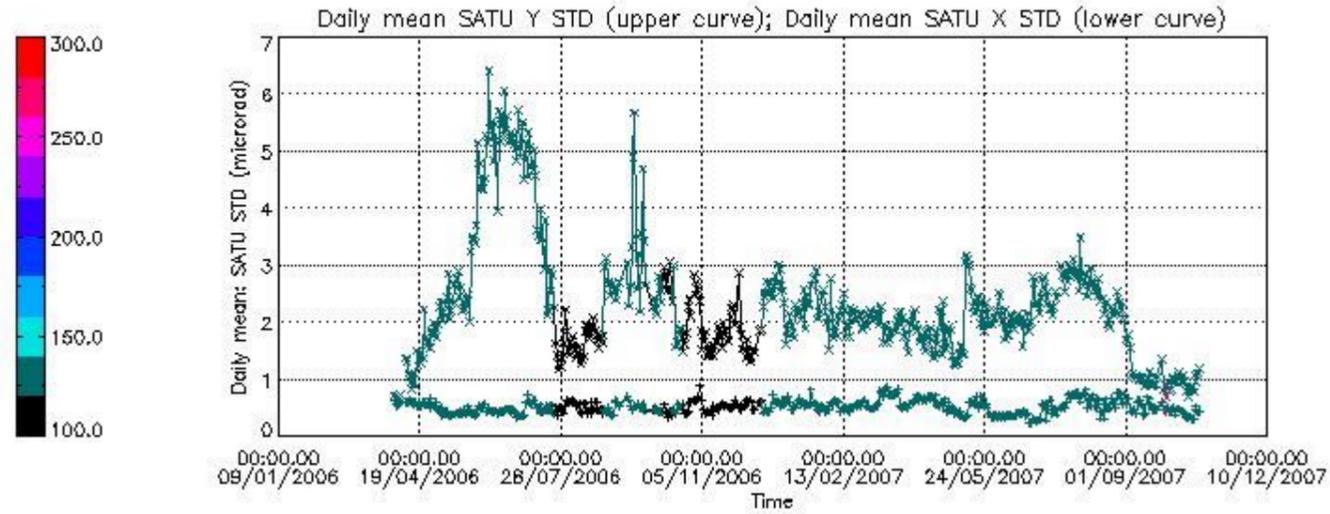
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

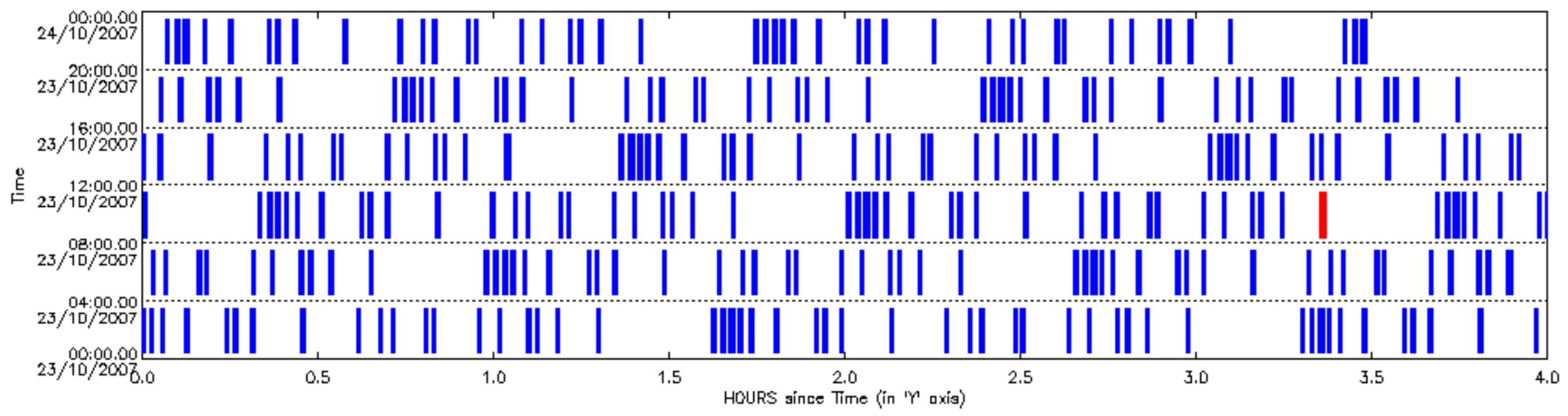
Lower curve: STD of SATU X axis

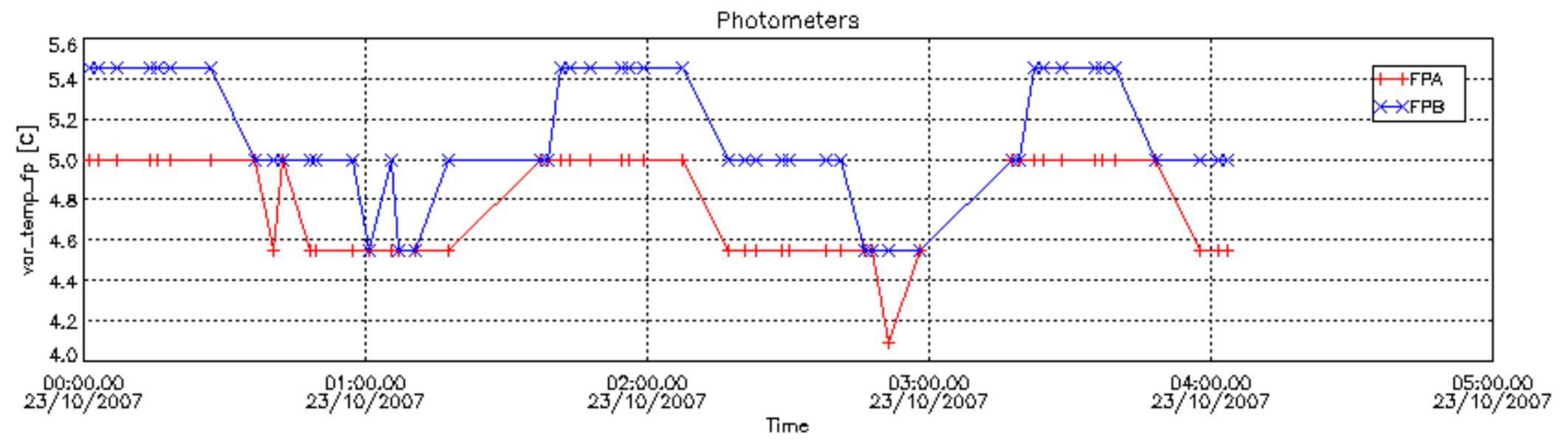
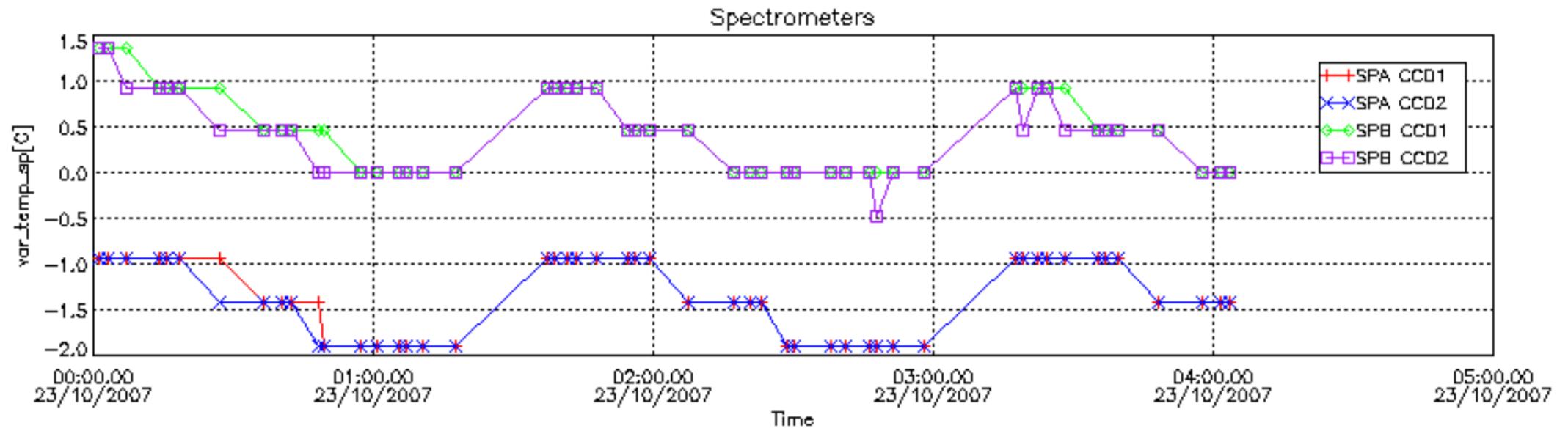


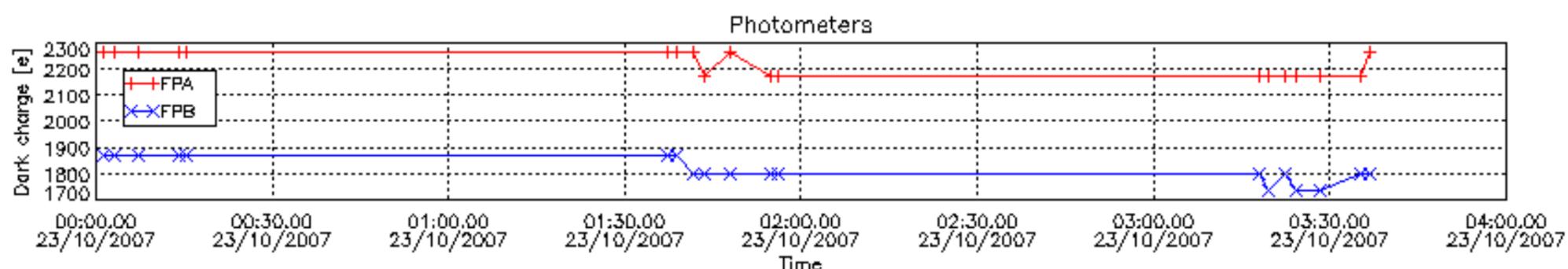
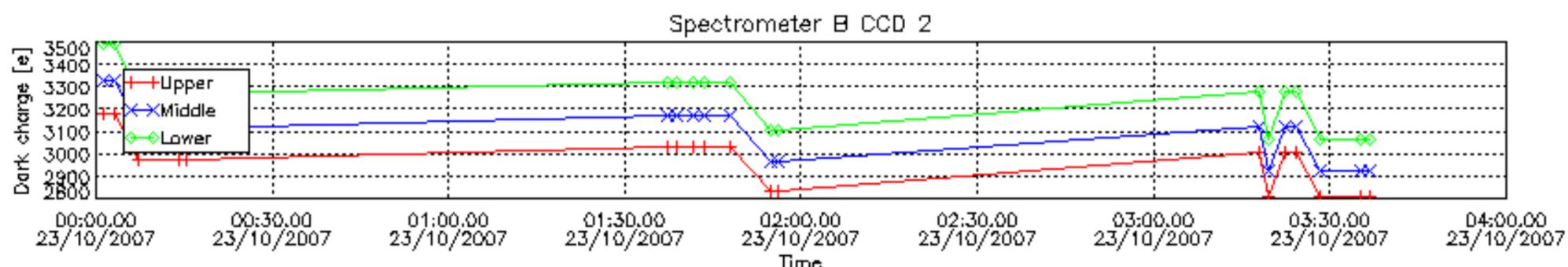
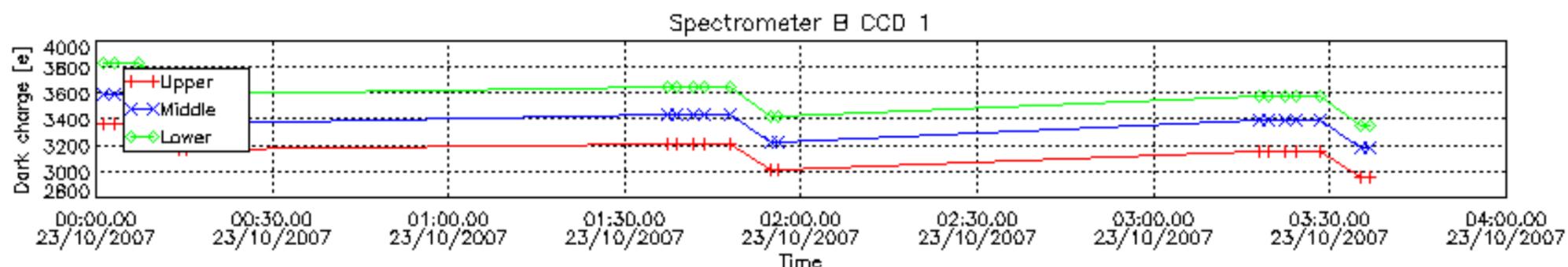
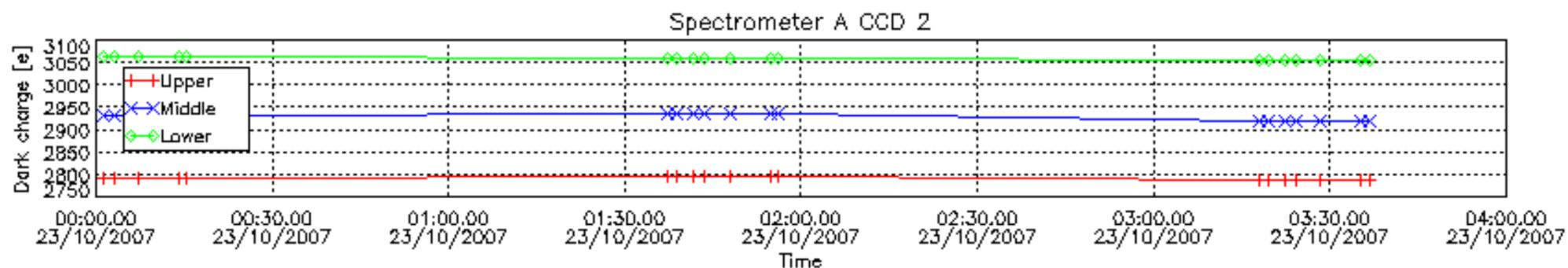
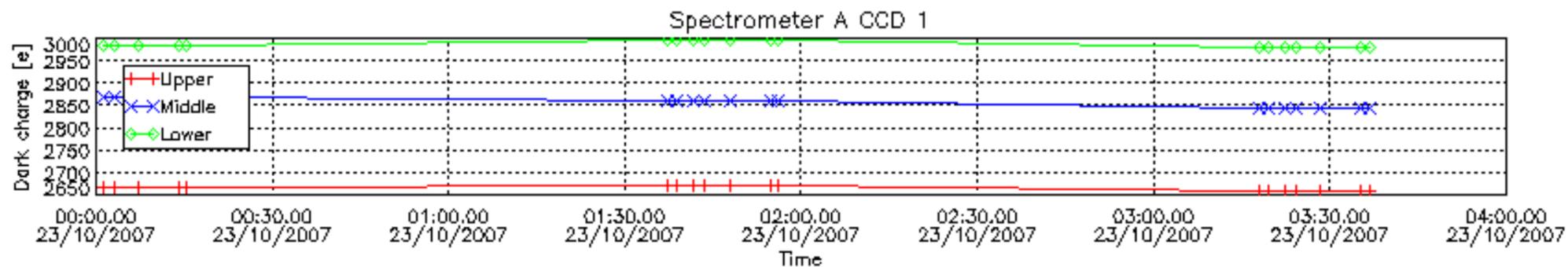
8. Auxiliary Data Files used for the production reported in section 2.4

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.

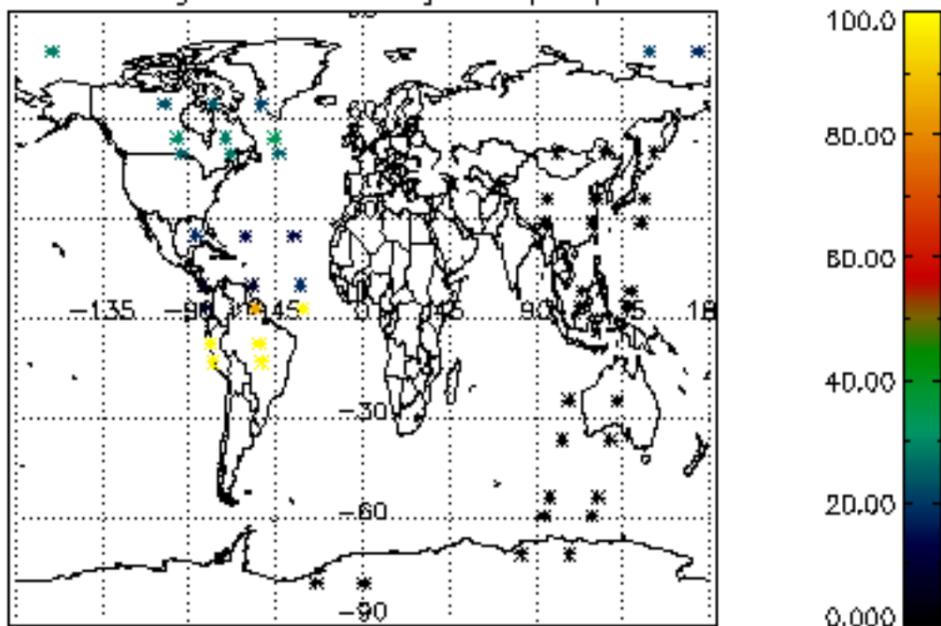
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	23-OCT-2007 00:01:06
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071019_103017_20071018_000000_20100101_000000	1	23-OCT-2007 00:01:06
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	23-OCT-2007 00:01:06
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	23-OCT-2007 00:01:06
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	23-OCT-2007 00:01:06
ECMWF_FILE	AUX_ECF_AXNECM20071023_090132_20071022_210000_20071023_090000	1	23-OCT-2007 00:01:06
OPTIONAL_ECMWF_FILE	MISSING	1	23-OCT-2007 00:01:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071022_220524_000057382062_00401_29513_4410.N1	1	23-OCT-2007 00:01:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071022_234621_000054192062_00402_29514_4411.N1	19	23-OCT-2007 01:37:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071023_012159_000041442062_00403_29515_4412.N1	34	23-OCT-2007 02:41:19



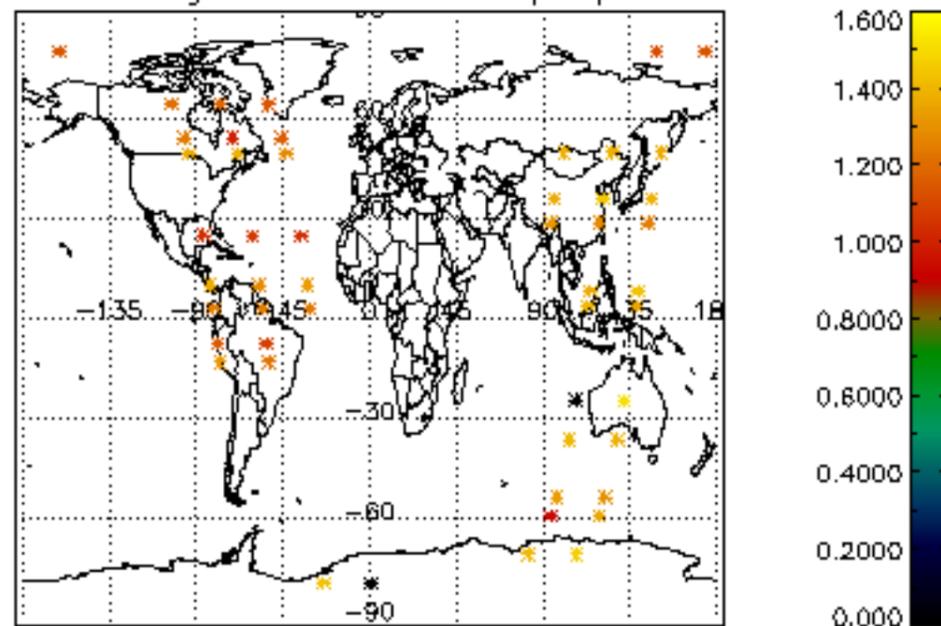




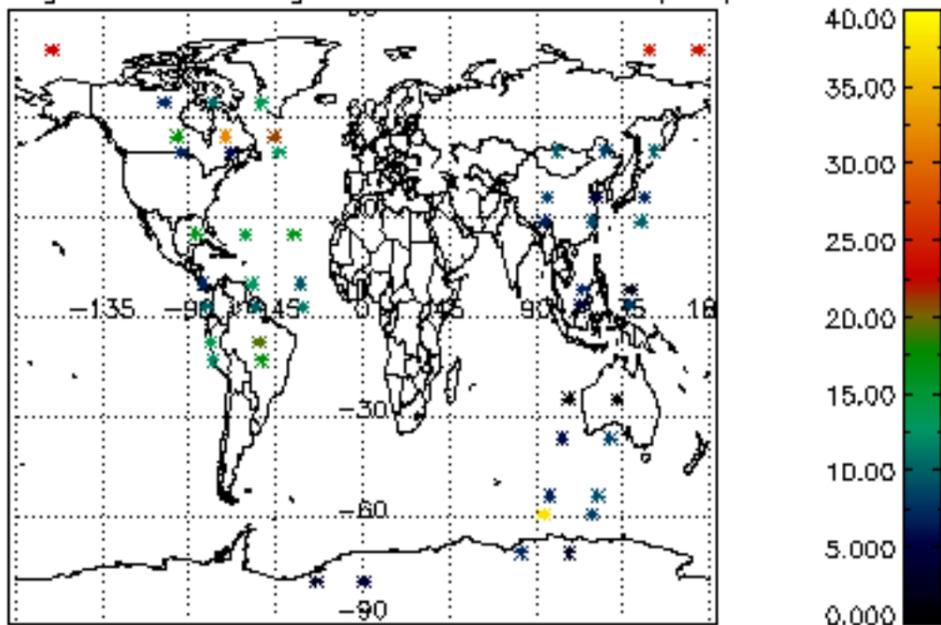
Percentage of cosmic ray hits per profile



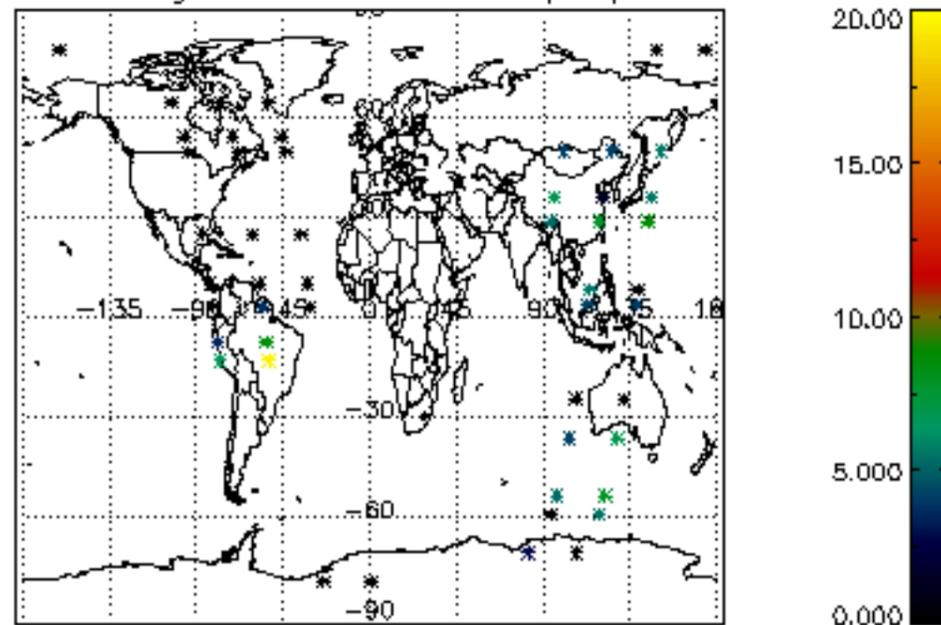
Percentage of datation errors per profile



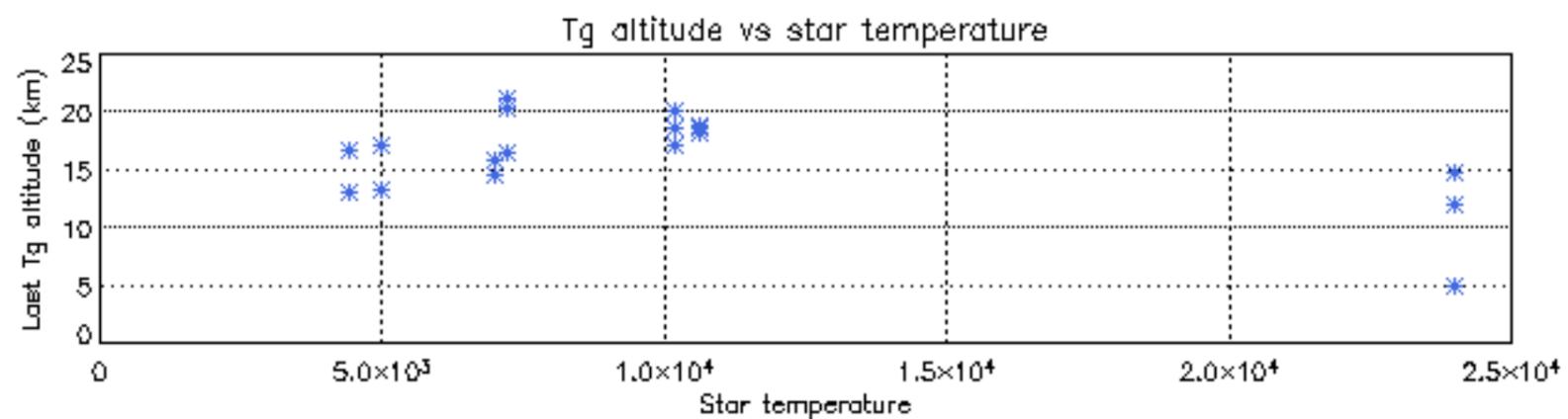
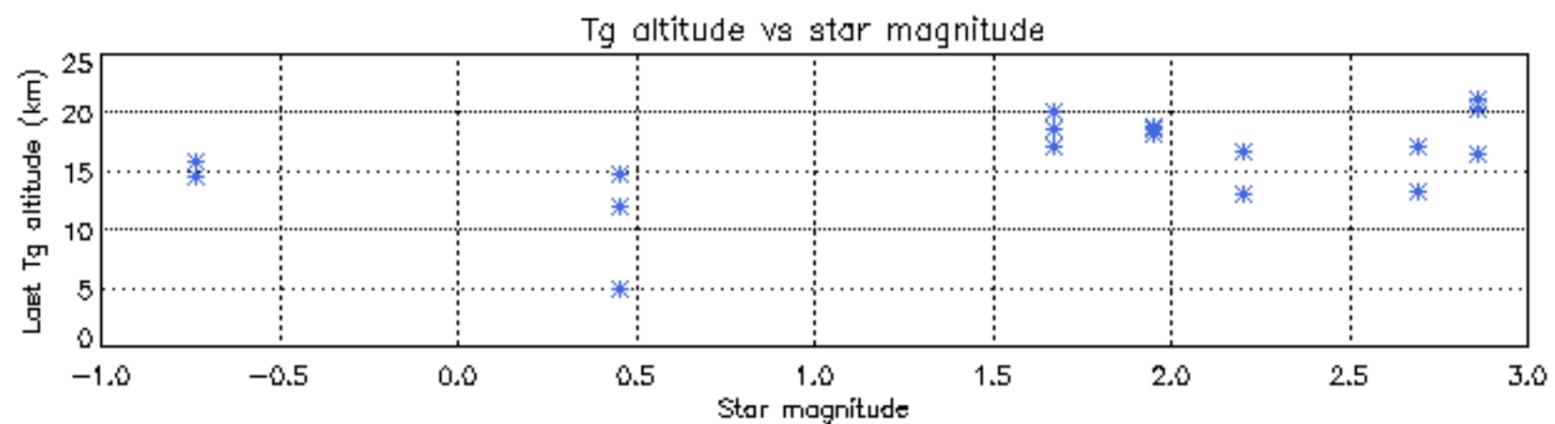
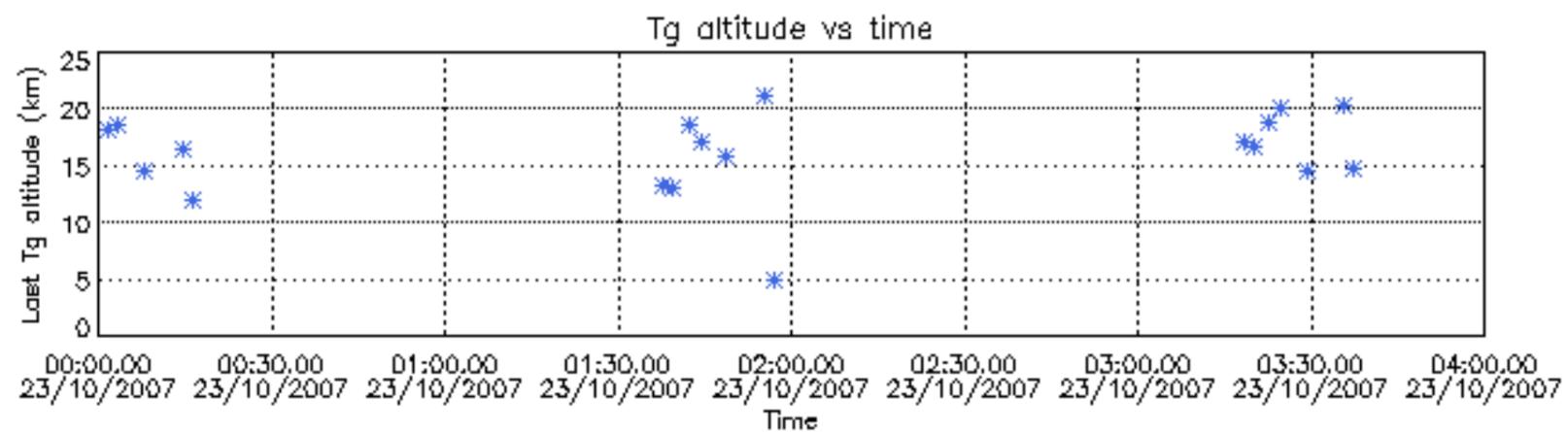
Percentage of star falling outside central band per profile



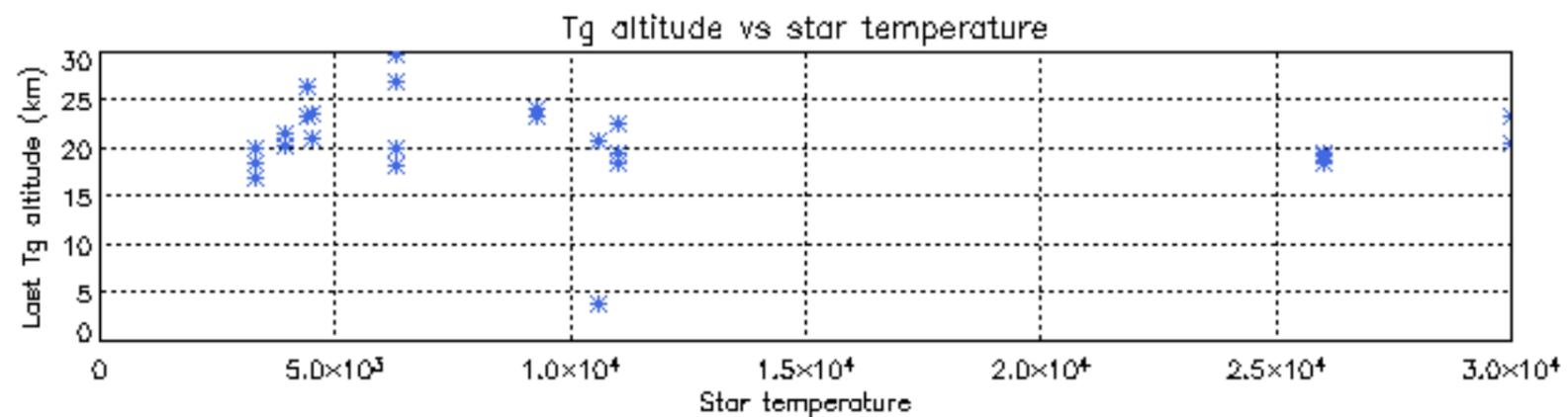
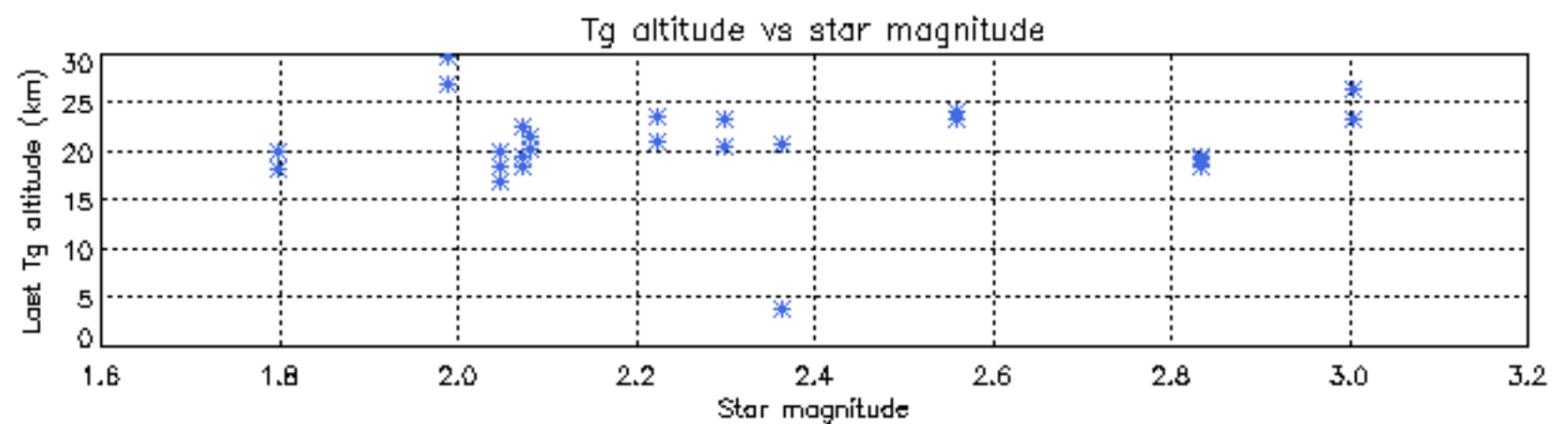
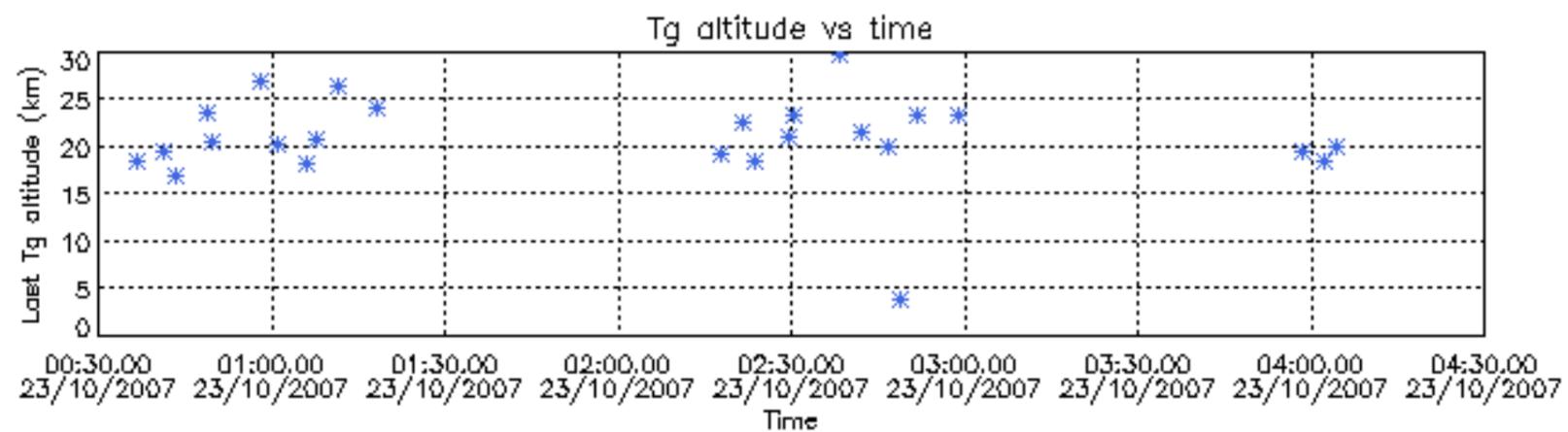
Percentage of saturation errors per profile

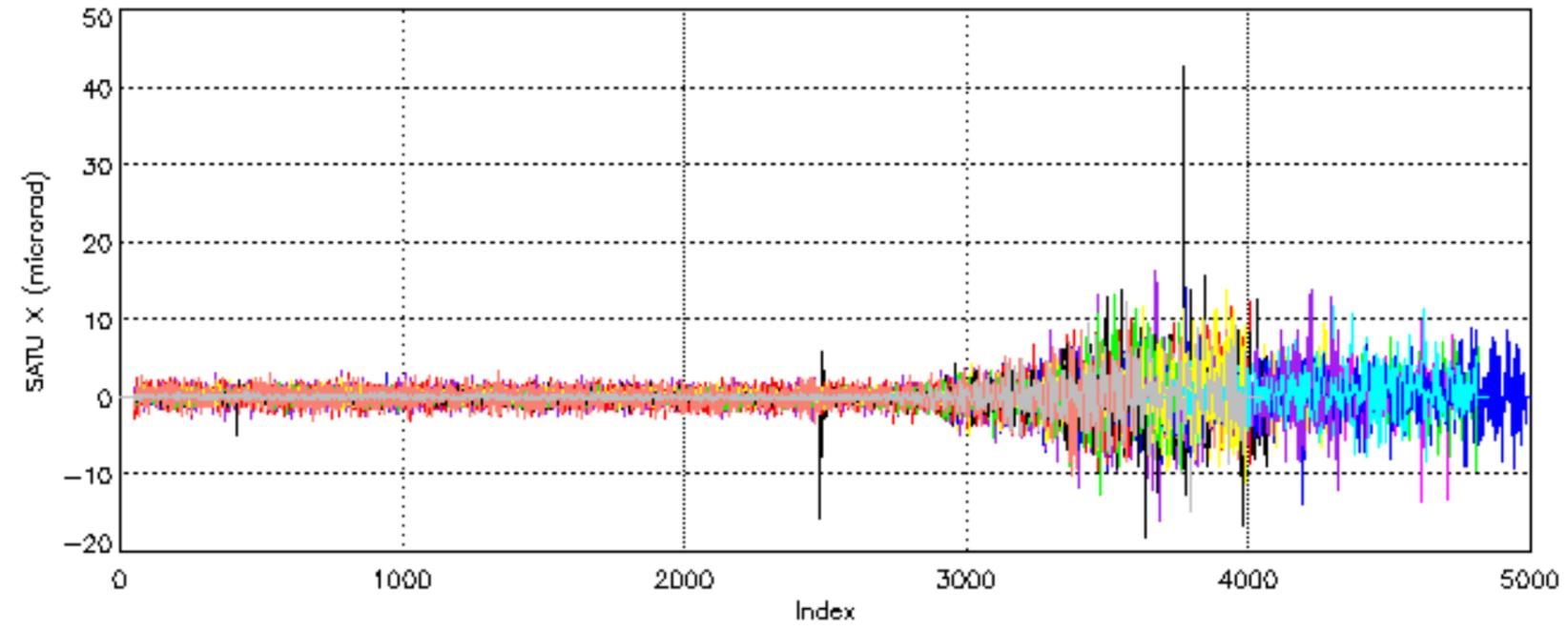


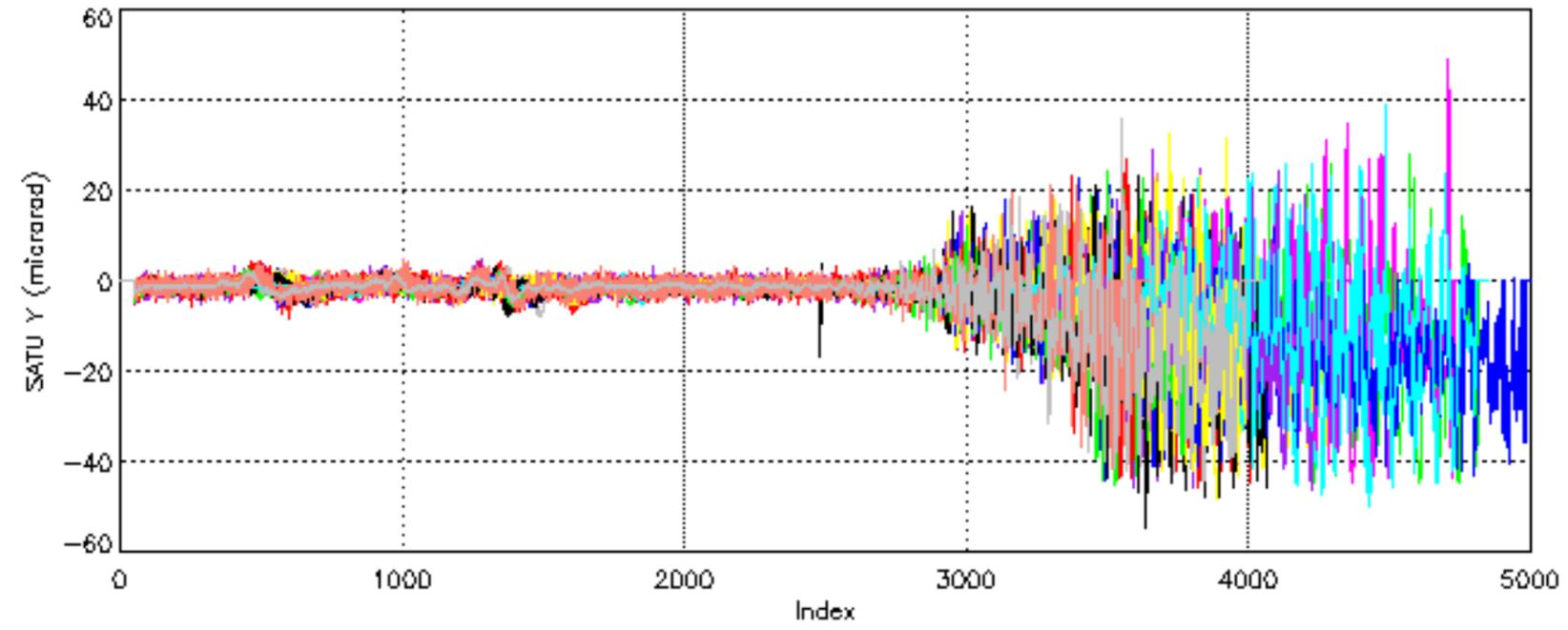
Tangent altitude at which the star is lost

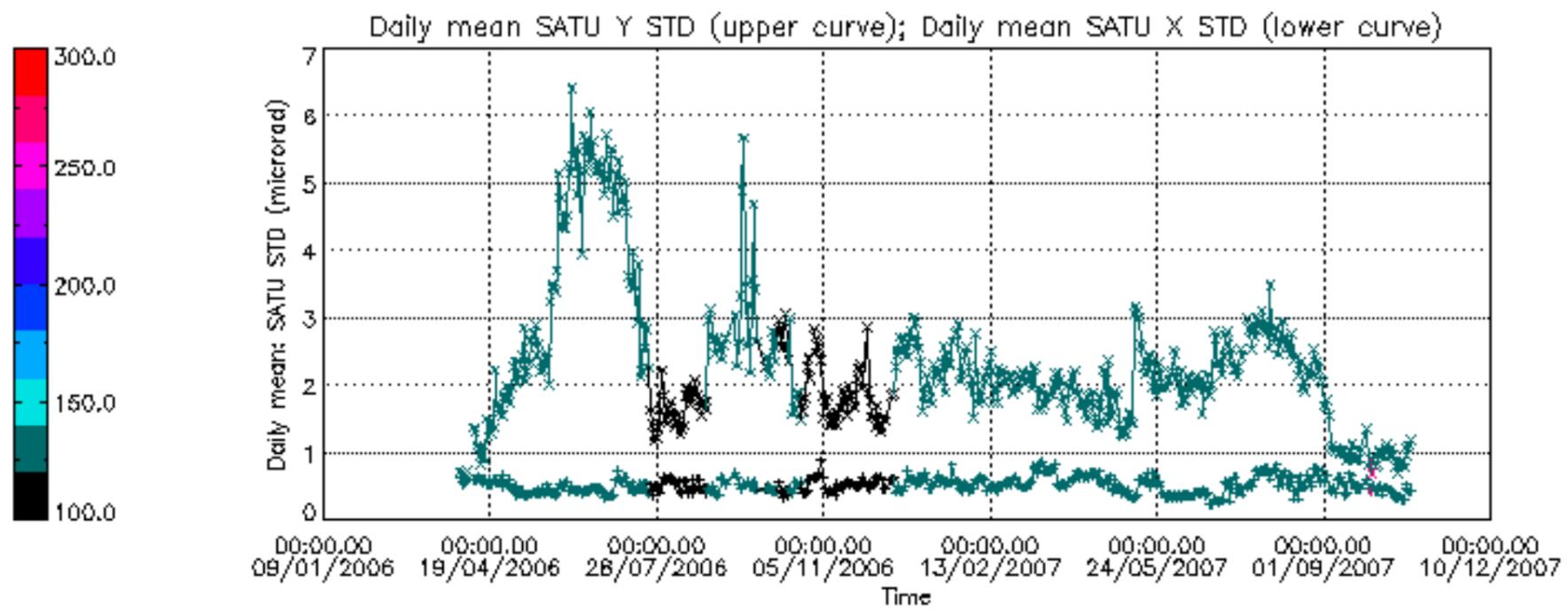


Tangent altitude at which the star is lost









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 3; 2952.0; 01-OCT-2007 09:03:50; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;29205
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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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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
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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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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
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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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 11; 5824.3; 02-OCT-2007 09:20:05; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 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
 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
 7; 4590.4; 02-OCT-2007 10:40:07; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 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
 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
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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
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 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
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 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
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 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
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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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 3; 2169.0; 02-OCT-2007 20:03:21; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29226
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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
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 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
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 15; 3998.2; 02-OCT-2007 23:55:02; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29228
 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
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 5; 3428.4; 02-OCT-2007 15:22:33; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29223
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 7; -22.2; 03-OCT-2007 07:11:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29232
 8; 106.3; 03-OCT-2007 07:13:10; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29233
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 6; 3998.9; 03-OCT-2007 08:18:03; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29233
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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
 12; 6143.0; 03-OCT-2007 08:53:47; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;29233
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 9; 5753.0; 03-OCT-2007 10:27:53; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;29234
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 13; 6228.0; 03-OCT-2007 10:35:48; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;29234
 14; 6778.7; 03-OCT-2007 10:44:58; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29234
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7; 833.8; 04-OCT-2007 01:51:53; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;29244
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13; 3018.1; 04-OCT-2007 02:28:17; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29244
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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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13; 1151.9; 04-OCT-2007 03:37:47; Dark ; 40.0; 84; Alp Phe ; 2.40; 4500;occ; 80; 0;29245
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9; 116.1; 04-OCT-2007 05:01:07; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29246
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14; 1563.0; 04-OCT-2007 05:25:14; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;29246
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16; 2387.3; 04-OCT-2007 05:38:58; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29246
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9; 117.0; 04-OCT-2007 06:41:44; Dark ; 47.0; 161; Tau Pup ; 2.93; 4500;occ; 94; 0;29247
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13; 6025.3; 04-OCT-2007 08:20:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29247
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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
16; 1568.9; 07-OCT-2007 03:50:29; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29288
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
19; 2918.1; 07-OCT-2007 04:12:58; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29288
20; 3003.1; 07-OCT-2007 04:14:23; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29288
21; 3427.6; 07-OCT-2007 04:21:27; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29288

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2;-2031.3; 07-OCT-2007 04:31:04; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;29288
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
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
 14; 1163.2; 07-OCT-2007 05:24:19; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 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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 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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2; 2390.4; 07-OCT-2007 09:05:58; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29291
 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
 11; 5778.0; 07-OCT-2007 10:02:26; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29291
 12; 5877.3; 07-OCT-2007 10:04:05; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;29291
 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
 15; 6188.2; 07-OCT-2007 10:09:16; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29291
 16; 6272.2; 07-OCT-2007 10:10:40; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;29291
 17; 6799.4; 07-OCT-2007 10:19:27; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29291
 18; 6886.8; 07-OCT-2007 10:20:54; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;29291
 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
 10; 4605.2; 07-OCT-2007 11:23:29; Bright; 36.5; 166; 17Eps Leo ; 2.98; 6000;occ; 73; 0;29292
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 12; 5199.4; 07-OCT-2007 11:33:23; Dark ; 47.5; 48; 30Alp Hya ; 1.98; 4100;occ; 95; 0;29292
 13; 5778.5; 07-OCT-2007 11:43:02; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 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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 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
 8; 4005.1; 07-OCT-2007 12:54:05; Bright; 36.0; 82; 48Bet UMa ; 2.37; 10600;occ; 72; 0;29293
 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
 14; 5878.9; 07-OCT-2007 13:25:18; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 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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 3; 2390.7; 07-OCT-2007 14:07:46; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29294
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8; 4202.0; 07-OCT-2007 14:37:57; Bright; 34.0; 174; 52Psi UMA ; 3.00; 4400;occ; 68; 0;29294
9; 4605.6; 07-OCT-2007 14:44:41; Bright; 56.0; 166; 17Eps Leo ; 2.98; 6000;occ; 112; 0;29294
10; 4793.0; 07-OCT-2007 14:47:48; Bright; 40.0; 22; 32Alp Leo ; 1.36; 15200;occ; 80; 0;29294
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12; 5779.5; 07-OCT-2007 15:04:15; Dark ; 46.0; 65; Lam Vel ; 2.20; 4400;occ; 92; 0;29294
13; 5879.7; 07-OCT-2007 15:05:55; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;29294
14; 5974.1; 07-OCT-2007 15:07:29; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29294
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 18; 6448.2; 22-OCT-2007 15:44:08; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;29509
 19; 6864.8; 22-OCT-2007 15:51:05; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29509
 20; 6950.2; 22-OCT-2007 15:52:30; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29509
 21; 7123.6; 22-OCT-2007 15:55:23; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;29509

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 7; 3425.1; 22-OCT-2007 16:34:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29510
 8; 3626.5; 22-OCT-2007 16:37:42; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29510
 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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 12; 4640.9; 22-OCT-2007 16:54:37; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29510
 13; 5815.4; 22-OCT-2007 17:14:11; Dark ; 37.5; 113; Mu Vel ; 2.69; 5000;occ; 75; 0;29510
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 18; 6449.0; 22-OCT-2007 17:24:45; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;29510
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 21; 7124.1; 22-OCT-2007 17:36:00; Dark ; 27.5; 157; The1Eri ; 2.91; 9300;occ; 55; 0;29510

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 3; 2171.8; 22-OCT-2007 17:54:03; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29511
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 5; 2530.7; 22-OCT-2007 18:00:02; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29511
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 16; 5991.5; 22-OCT-2007 18:57:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29511
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 19; 6449.7; 22-OCT-2007 19:05:21; Dark ; 63.0; 2; Alp Car ; -0.74; 7000;occ; 126; 0;29511
 20; 6865.3; 22-OCT-2007 19:12:17; Dark ; 10.0; 143; Alp Hyi ; 2.86; 7200;occ; 20; 0;29511

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 9; 2951.1; 22-OCT-2007 19:47:39; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;29512
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 11; 3626.9; 22-OCT-2007 19:58:55; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;29512
 12; 3919.6; 22-OCT-2007 20:03:47; Bright; 53.0; 36; 50Alp UMA ; 1.80; 6300;occ; 106; 0;29512
 13; 4014.4; 22-OCT-2007 20:05:22; Bright; 54.0; 82; 48Bet UMA ; 2.37; 10600;occ; 108; 0;29512
 14; 4224.2; 22-OCT-2007 20:08:52; Bright; 35.5; 174; 52Psi UMA ; 3.00; 4400;occ; 71; 0;29512
 15; 4641.3; 22-OCT-2007 20:15:49; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29512
 16; 5815.8; 22-OCT-2007 20:35:24; Dark ; 38.5; 113; Mu Vel ; 2.69; 5000;occ; 77; 0;29512
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 18; 5992.1; 22-OCT-2007 20:38:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29512
 19; 6085.1; 22-OCT-2007 20:39:53; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29512
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 22; 6865.5; 22-OCT-2007 20:52:53; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29512
 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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 5; 167.4; 23-OCT-2007 00:03:03; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29515
 6; 416.2; 23-OCT-2007 00:07:12; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;29515
 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
 10; 1601.7; 23-OCT-2007 00:26:57; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;29515
 11; 2172.0; 23-OCT-2007 00:36:27; Bright; 36.5; 140; 88Gam Peg ; 2.83; 26000;occ; 73; 0;29515

12; 2406.2; 23-OCT-2007 00:40:22; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29515
 13; 2529.8; 23-OCT-2007 00:42:25; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;29515
 14; 2872.9; 23-OCT-2007 00:48:08; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29515
 15; 2950.5; 23-OCT-2007 00:49:26; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29515
 16; 3424.9; 23-OCT-2007 00:57:20; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29515
 17; 3627.5; 23-OCT-2007 01:00:43; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29515
 18; 3919.5; 23-OCT-2007 01:05:35; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0;29515
 19; 4014.2; 23-OCT-2007 01:07:10; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0;29515
 20; 4224.4; 23-OCT-2007 01:10:40; Bright; 34.0; 174; 52Psi UMA ; 3.00; 4400;occ; 68; 0;29515
 21; 4642.0; 23-OCT-2007 01:17:37; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29515

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 4; 50.9; 23-OCT-2007 01:41:42; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29516
 5; 167.5; 23-OCT-2007 01:43:39; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;29516
 6; 417.1; 23-OCT-2007 01:47:48; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;29516
 7; 830.4; 23-OCT-2007 01:54:42; Dark ; 36.0; 143; Alp Hyi ; 2.86; 7200;occ; 72; 0;29516
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 9; 1090.1; 23-OCT-2007 01:59:01; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29516
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 14; 2872.7; 23-OCT-2007 02:28:44; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29516
 15; 2950.5; 23-OCT-2007 02:30:02; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29516
 16; 3425.0; 23-OCT-2007 02:37:56; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;29516

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 5; -1393.8; 23-OCT-2007 02:58:13; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;29516
 6; -218.8; 23-OCT-2007 03:17:48; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;29516
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 9; 51.5; 23-OCT-2007 03:22:19; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29517
 10; 168.0; 23-OCT-2007 03:24:15; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;29517
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 12; 830.6; 23-OCT-2007 03:35:18; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29517
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 16; 2172.4; 23-OCT-2007 03:57:40; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29517
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 19; 2872.8; 23-OCT-2007 04:09:20; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29517
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 22; 3628.0; 23-OCT-2007 04:21:55; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29517

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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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17; 6217.4; 26-OCT-2007 08:32:01; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;29562
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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
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9; 4013.4; 26-OCT-2007 09:35:53; Bright; 37.5; 82; 48Bet UMA ; 2.37; 10600;occ; 75; 0;29563
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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
 12; 4653.2; 26-OCT-2007 14:48:21; Bright; 54.5; 96; 68Del Leo ; 2.56; 9300;occ; 109; 0;29566
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 12; 2868.9; 26-OCT-2007 22:41:36; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29571
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 18; 4227.3; 26-OCT-2007 23:04:15; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29571
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7; 91.8; 27-OCT-2007 04:37:43; Dark ; 37.0; 159; Ups Car ; 2.92; 7200;occ; 74; 0;29575
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