

GOMOS Daily Report 13-JAN-2005

Level 0 and Level 1 products

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1. General Info

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	15JAN2005 05:03:51

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (13JAN2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (14JAN2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

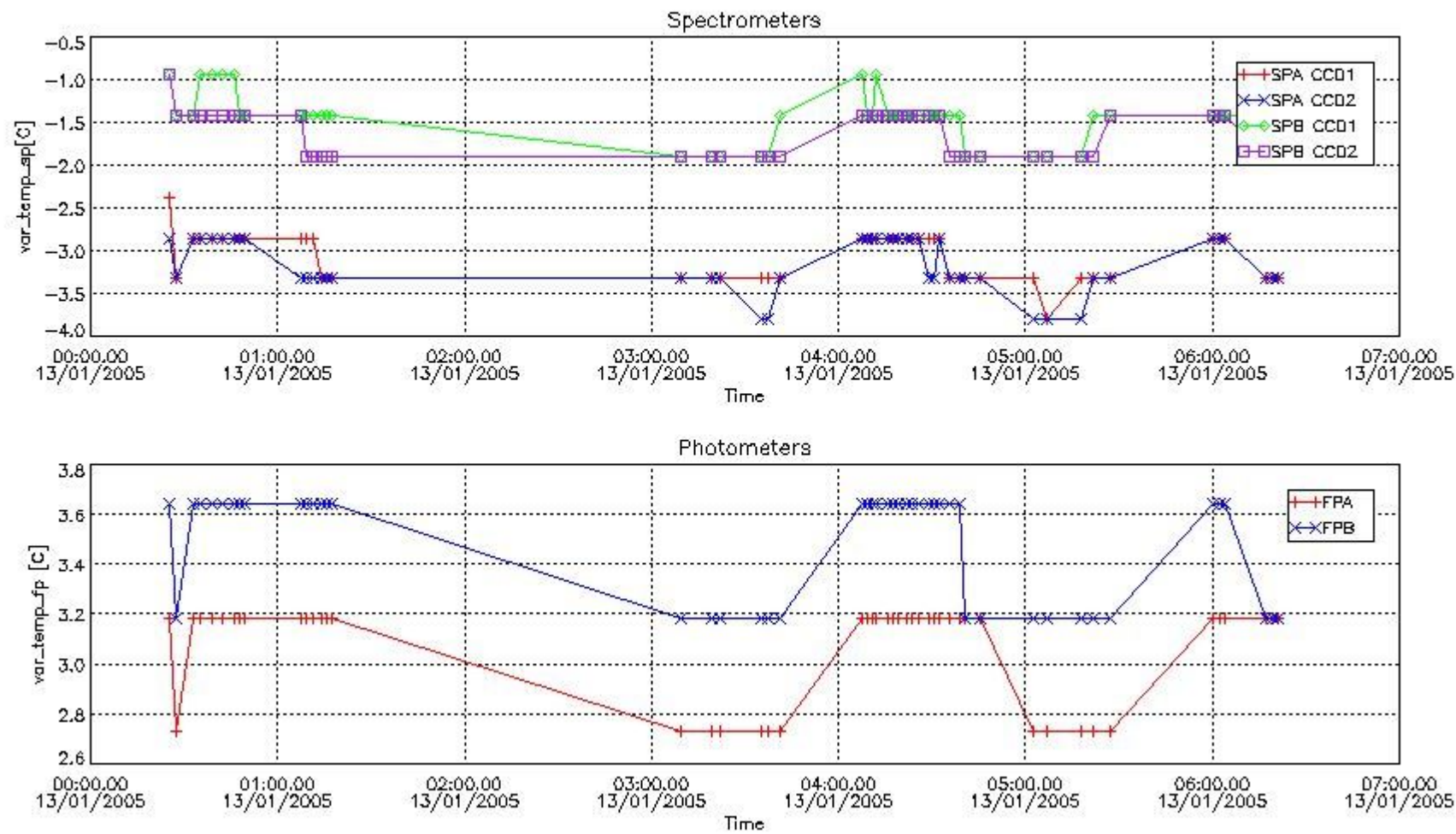
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 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_1PNPDE20050113_002518_000000532033_00431_15014_0000.N1	13-JAN-2005 00:25:18	Twilight	53.000	104	27Bet Lib	2.6140	13100.	106	15014	Yes
2	GOM_TRA_1PNPDE20050113_002738_000000522033_00431_15014_0001.N1	13-JAN-2005 00:27:38	Twilight	52.000	16	21Alp Sco	1.0200	3000.0	104	15014	No
3	GOM_TRA_1PNPDE20050113_003247_000000442033_00431_15014_0002.N1	13-JAN-2005 00:32:47	Twilight	43.500	131	Gam Lup	2.8000	26000.	87	15014	No
4	GOM_TRA_1PNPDE20050113_003513_000001052033_00431_15014_0003.N1	13-JAN-2005 00:35:13	Dark	105.00	15	67Alp Vir	0.97600	28000.	210	15014	No
5	GOM_TRA_1PNPDE20050113_003844_000000522033_00432_15015_0004.N1	13-JAN-2005 00:38:44	Dark	51.500	123	lot Cen	2.7500	10200.	103	15015	No
6	GOM_TRA_1PNPDE20050113_004208_000000442033_00432_15015_0005.N1	13-JAN-2005 00:42:08	Dark	43.500	20	Bet Cru	1.2530	30000.	87	15015	No
7	GOM_TRA_1PNPDE20050113_004619_000000432033_00432_15015_0006.N1	13-JAN-2005 00:46:19	Dark	42.500	124	The Car	2.7640	30000.	85	15015	No
8	GOM_TRA_1PNPDE20050113_004746_000000422033_00432_15015_0007.N1	13-JAN-2005 00:47:46	Dark	41.500	29	Bet Car	1.6720	10200.	83	15015	No
9	GOM_TRA_1PNPDE20050113_004937_000000432033_00432_15015_0008.N1	13-JAN-2005 00:49:37	Dark	43.000	71	lot Car	2.2460	7700.0	86	15015	No
10	GOM_TRA_1PNPDE20050113_010739_000000452033_00432_15015_0016.N1	13-JAN-2005 01:07:39	Bright	44.500	7	19Bet Ori	0.10000	14000.	89	15015	No
11	GOM_TRA_1PNPDE20050113_010919_000000442033_00432_15015_0017.N1	13-JAN-2005 01:09:19	Bright	44.000	30	46Eps Ori	1.6940	30000.	88	15015	No
12	GOM_TRA_1PNPDE20050113_011121_000000612033_00432_15015_0018.N1	13-JAN-2005 01:11:21	Bright	61.000	8	10Alp CMI	0.40000	6500.0	122	15015	No
13	GOM_TRA_1PNPDE20050113_011408_000000482033_00432_15015_0019.N1	13-JAN-2005 01:14:08	Bright	47.500	44	24Gam Gem	1.9280	11000.	95	15015	No
14	GOM_TRA_1PNPDE20050113_011530_000000372033_00432_15015_0020.N1	13-JAN-2005 01:15:30	Bright	37.000	176	23Zet Tau	3.0200	22000.	74	15015	No
15	GOM_TRA_1PNPDE20050113_011740_000000392033_00432_15015_0021.N1	13-JAN-2005 01:17:40	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	15015	No
16	GOM_TRA_1PNPDE20050113_030919_000001422033_00433_15016_0025.N1	13-JAN-2005 03:09:19	Bright	142.00	166	17Eps Leo	2.9800	6000.0	284	15016	No
17	GOM_TRA_1PNPDE20050113_031922_000000392033_00433_15016_0000.N1	13-JAN-2005 03:19:22	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	15016	No
18	GOM_TRA_1PNPDE20050113_032158_000000542033_00433_15016_0001.N1	13-JAN-2005 03:21:58	Bright	53.500	32	77Eps UMa	1.7630	11000.	107	15016	No
19	GOM_TRA_1PNPDE20050113_033513_000000532033_00433_15016_0003.N1	13-JAN-2005 03:35:13	Bright	53.000	83		2.3780	11000.	106	15016	No
20	GOM_TRA_1PNPDE20050113_033709_000000392033_00433_15016_0004.N1	13-JAN-2005 03:37:09	Bright	38.500	59	55Alp Oph	2.0800	8900.0	77	15016	No
21	GOM_TRA_1PNPDE20050113_034101_000000882033_00433_15016_0005.N1	13-JAN-2005 03:41:01	Twilight	87.500	111	8Eta Boo	2.6800	6000.0	175	15016	No
22	GOM_TRA_1PNPDE20050113_040732_000000422033_00434_15017_0013.N1	13-JAN-2005 04:07:32	Dark	41.500	124	The Car	2.7640	30000.	83	15017	No
23	GOM_TRA_1PNPDE20050113_040859_000000422033_00434_15017_0014.N1	13-JAN-2005 04:08:59	Dark	41.500	29	Bet Car	1.6720	10200.	83	15017	No
24	GOM_TRA_1PNPDE20050113_041050_000000432033_00434_15017_0015.N1	13-JAN-2005 04:10:50	Dark	42.500	71	lot Car	2.2460	7700.0	85	15017	No
25	GOM_TRA_1PNPDE20050113_041208_000000532033_00434_15017_0016.N1	13-JAN-2005 04:12:08	Dark	52.500	41	Eps Car	1.8600	4100.0	105	15017	No
26	GOM_TRA_1PNPDE20050113_041550_000000522033_00434_15017_0017.N1	13-JAN-2005 04:15:50	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	15017	No
27	GOM_TRA_1PNPDE20050113_041736_000000432033_00434_15017_0018.N1	13-JAN-2005 04:17:36	Dark	43.000	70	Zet Pup	2.2460	39000.	86	15017	No
28	GOM_TRA_1PNPDE20050113_041917_000000492033_00434_15017_0019.N1	13-JAN-2005 04:19:17	Dark	48.500	117	Pi Pup	2.7060	3800.0	97	15017	No
29	GOM_TRA_1PNPDE20050113_042154_000000482033_00434_15017_0020.N1	13-JAN-2005 04:21:54	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	15017	No
30	GOM_TRA_1PNPDE20050113_042321_000000432033_00434_15017_0021.N1	13-JAN-2005 04:23:21	Twilight	43.000	179	24Omi2CMa	3.0320	24000.	86	15017	No
31	GOM_TRA_1PNPDE20050113_042535_000000492033_00434_15017_0022.N1	13-JAN-2005 04:25:35	Twilight	48.500	1	9Alp CMa	-1.4400	11000.	97	15017	No
32	GOM_TRA_1PNPDE20050113_042851_000000522033_00434_15017_0023.N1	13-JAN-2005 04:28:51	Bright	52.000	7	19Bet Ori	0.10000	14000.	104	15017	No
33	GOM_TRA_1PNPDE20050113_043029_000000482033_00434_15017_0024.N1	13-JAN-2005 04:30:29	Bright	48.000	30	46Eps Ori	1.6940	30000.	96	15017	No
34	GOM_TRA_1PNPDE20050113_043232_000000562033_00434_15017_0025.N1	13-JAN-2005 04:32:32	Bright	56.000	8	10Alp CMI	0.40000	6500.0	112	15017	No
35	GOM_TRA_1PNPDE20050113_043522_000000452033_00434_15017_0026.N1	13-JAN-2005 04:35:22	Bright	44.500	44	24Gam Gem	1.9280	11000.	89	15017	No
36	GOM_TRA_1PNPDE20050113_043852_000000392033_00434_15017_0028.N1	13-JAN-2005 04:38:52	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	15017	No
37	GOM_TRA_1PNPDE20050113_044024_000000402033_00434_15017_0029.N1	13-JAN-2005 04:40:24	Bright	39.500	114	3lot Aur	2.6930	4600.0	79	15017	No
38	GOM_TRA_1PNPDE20050113_044538_000000382033_00434_15017_0031.N1	13-JAN-2005 04:45:38	Bright	38.000	175	39Del Per	3.0100	19400.	76	15017	No
39	GOM_TRA_1PNPDE20050113_050233_000000542033_00434_15017_0001.N1	13-JAN-2005 05:02:33	Bright	54.000	32	77Eps UMa	1.7630	11000.	108	15017	No
40	GOM_TRA_1PNPDE20050113_050645_000000352033_00434_15017_0002.N1	13-JAN-2005 05:06:45	Bright	35.000	130	23Bet Dra	2.7990	5800.0	70	15017	No
41	GOM_TRA_1PNPDE20050113_051748_000000362033_00434_15017_0004.N1	13-JAN-2005 05:17:48	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	15017	No
42	GOM_TRA_1PNPDE20050113_052138_000000882033_00434_15017_0005.N1	13-JAN-2005 05:21:38	Twilight	87.500	111	8Eta Boo	2.6800	6000.0	175	15017	No
43	GOM_TRA_1PNPDE20050113_052708_000000512033_00434_15017_0007.N1	13-JAN-2005 05:27:08	Twilight	50.500	104	27Bet Lib	2.6140	13100.	101	15017	No
44	GOM_TRA_1PNPDE20050113_055956_000000482033_00435_15018_0019.N1	13-JAN-2005 05:59:56	Dark	47.500	117	Pi Pup	2.7060	3800.0	95	15018	No
45	GOM_TRA_1PNPDE20050113_060231_000000462033_00435_15018_0020.N1	13-JAN-2005 06:02:31	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	15018	No
46	GOM_TRA_1PNPDE20050113_060358_000000432033_00435_15018_0021.N1	13-JAN-2005 06:03:58	Twilight	42.500	179	24Omi2CMa	3.0320	24000.	85	15018	No

47	GOM_TRA_1PNPDE20050113_061720_000000362033_00435_15018_0027.N1	13-JAN-2005 06:17:20	Bright	35.500	176	23Zet Tau	3.0200	22000.	71	15018	No
48	GOM_TRA_1PNPDE20050113_061928_000000402033_00435_15018_0028.N1	13-JAN-2005 06:19:28	Bright	39.500	28	12Bet Tau	1.6500	15200.	79	15018	No
49	GOM_TRA_1PNPDE20050113_062101_000000392033_00435_15018_0029.N1	13-JAN-2005 06:21:01	Bright	38.500	114	3Iot Aur	2.6930	4600.0	77	15018	No

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



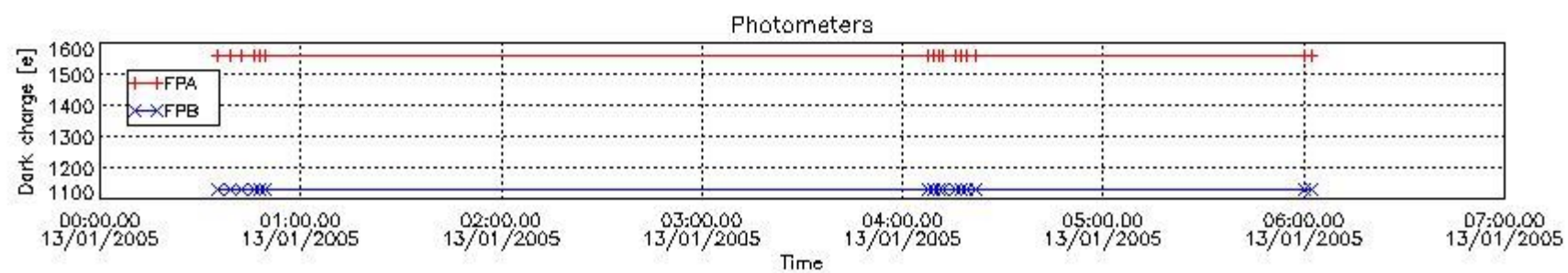
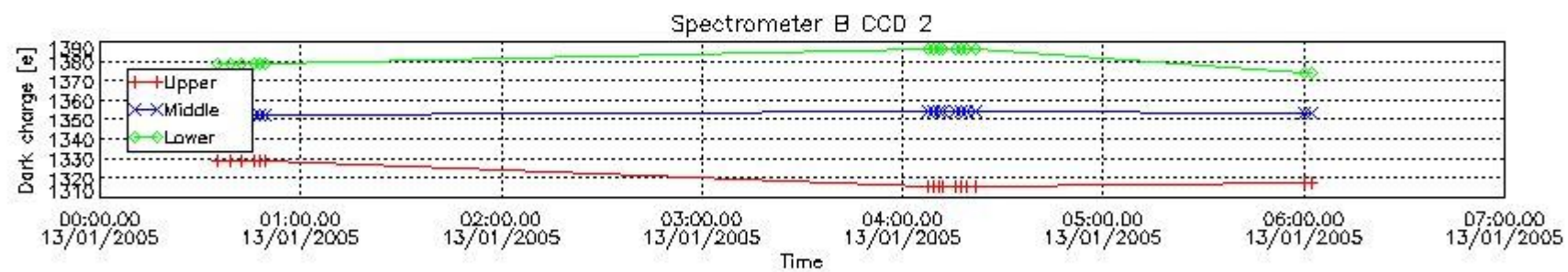
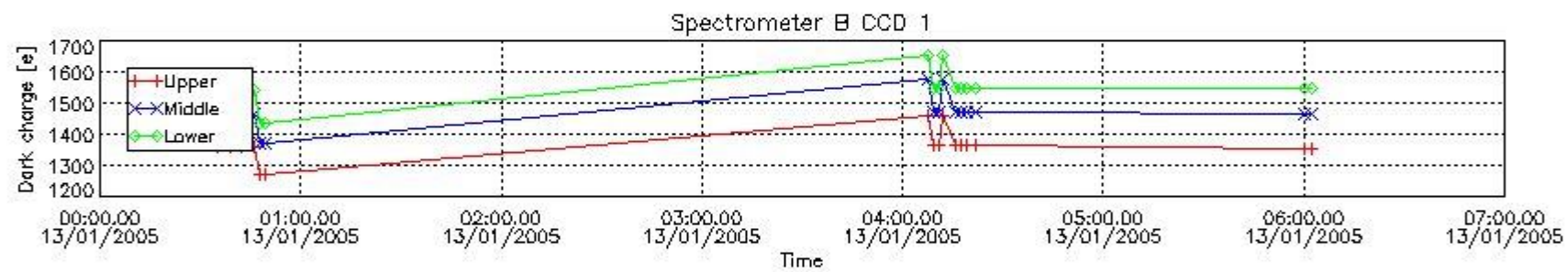
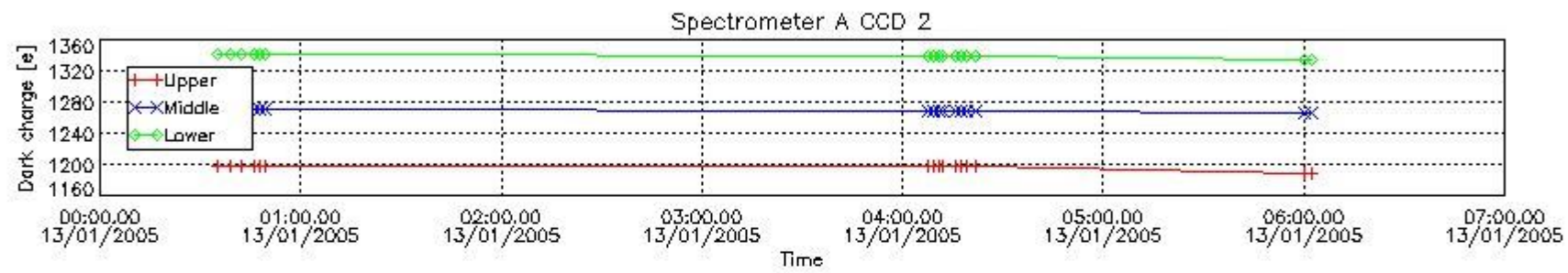
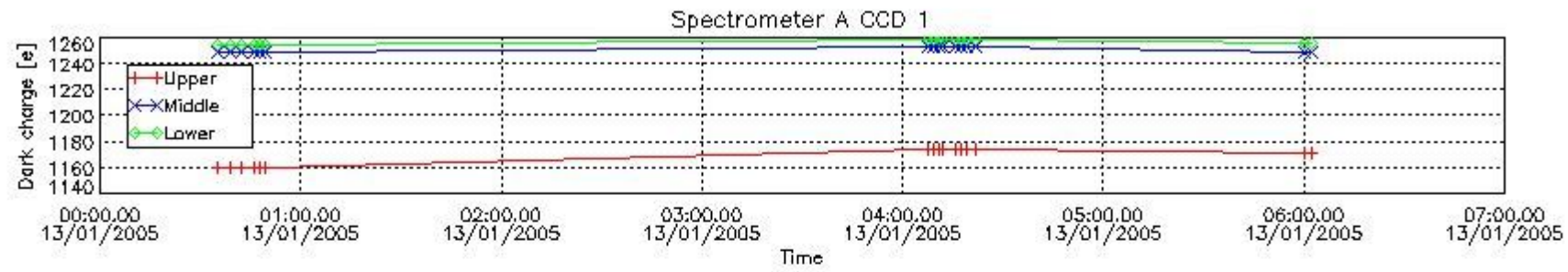
4. Overview of dark signal processing per product

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



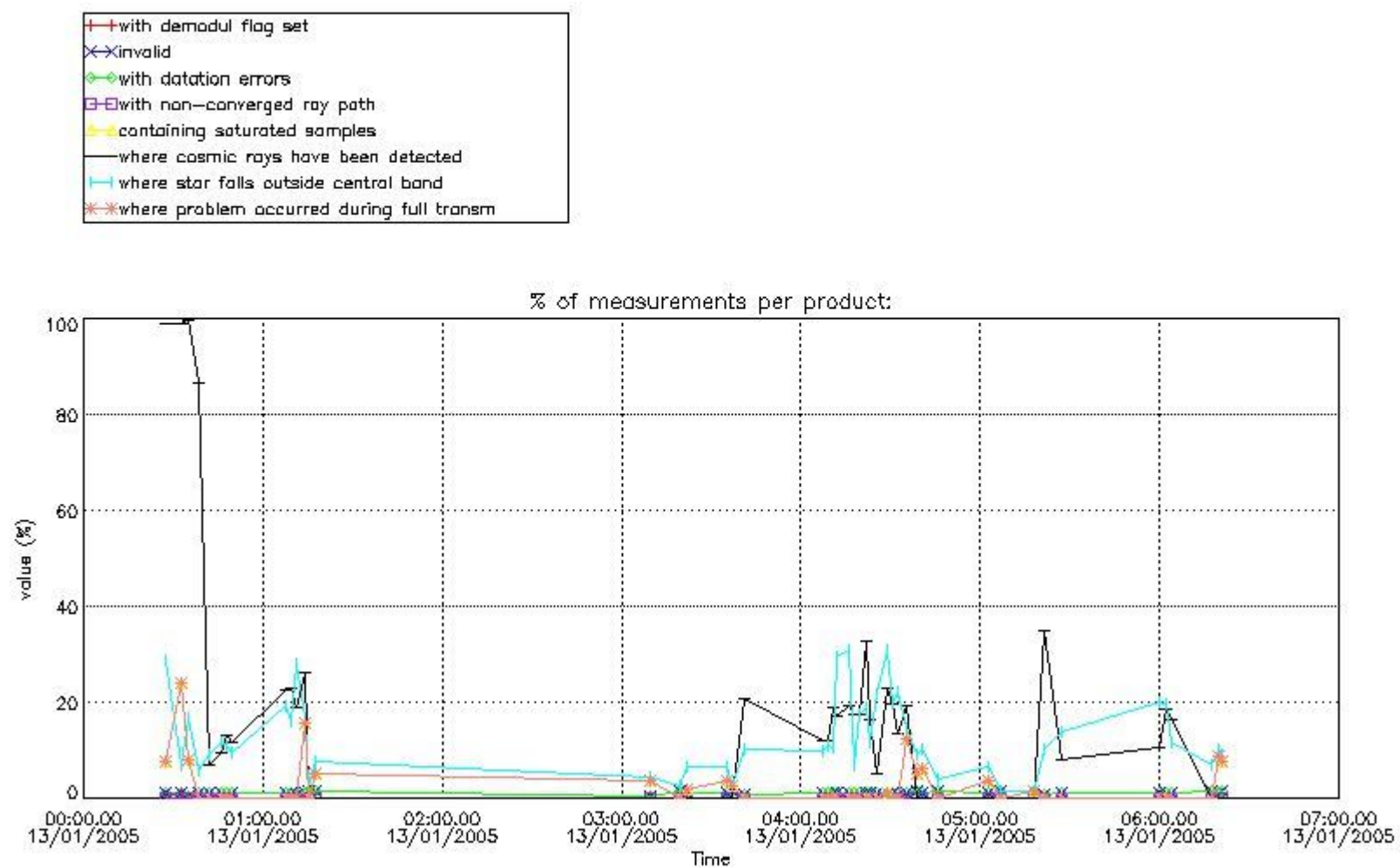
5. Demodulation flag and quality information monitoring

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.

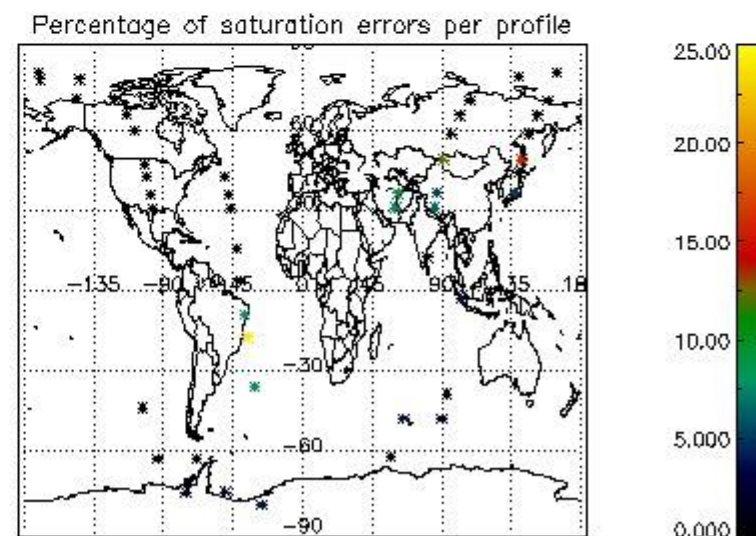
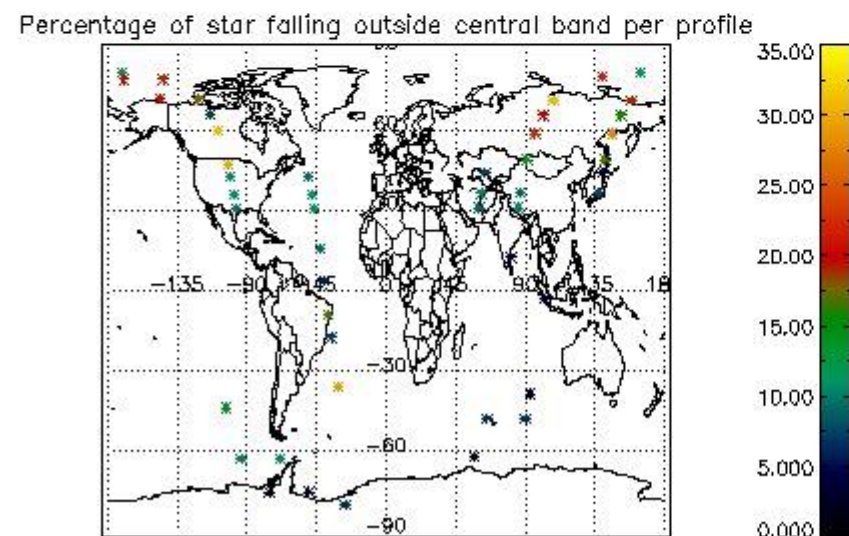
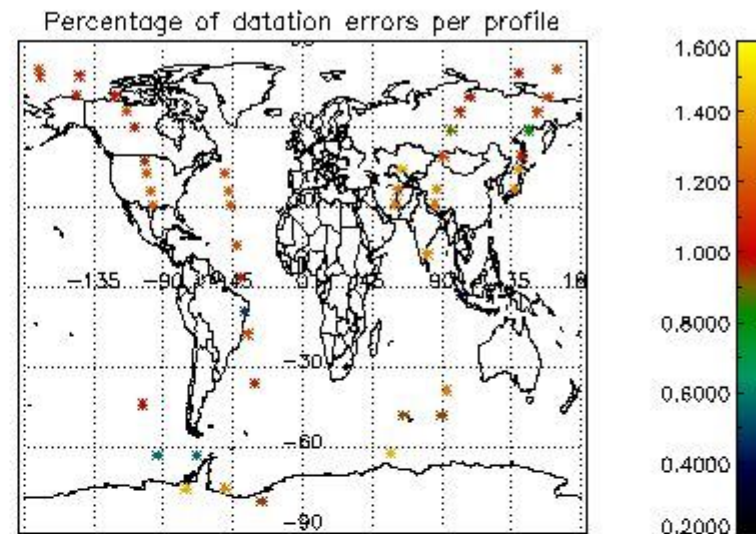
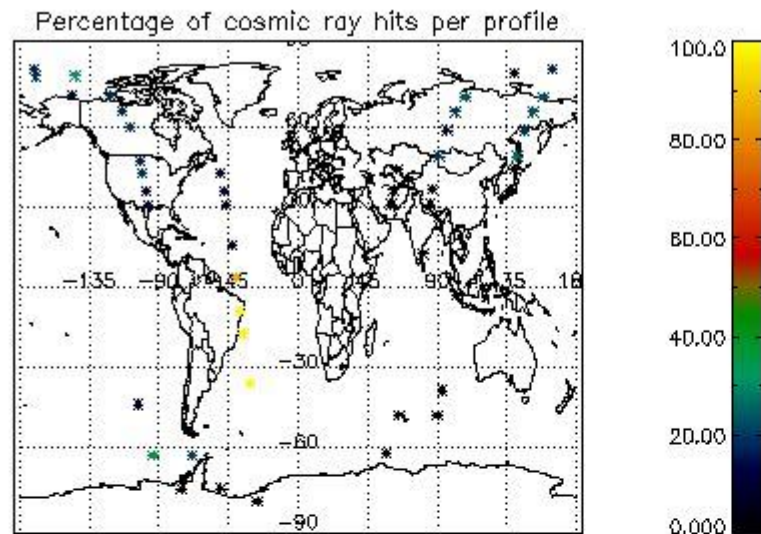
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	10.4167 %
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)



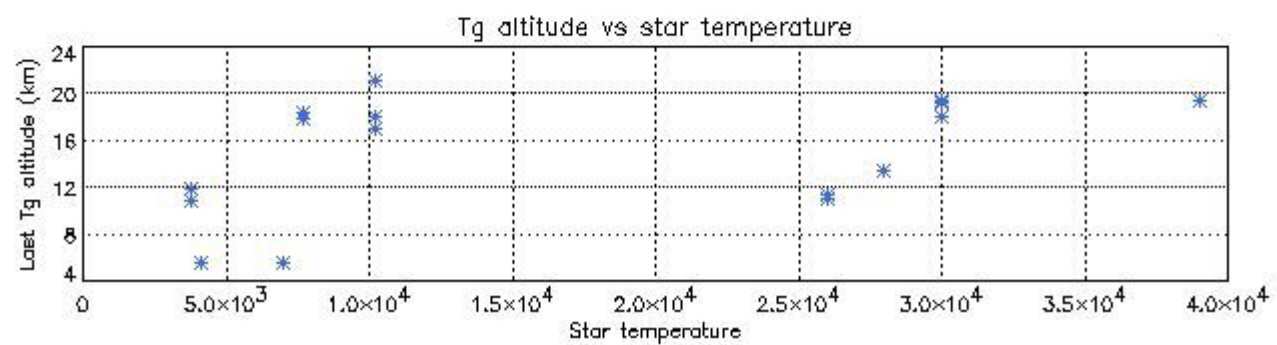
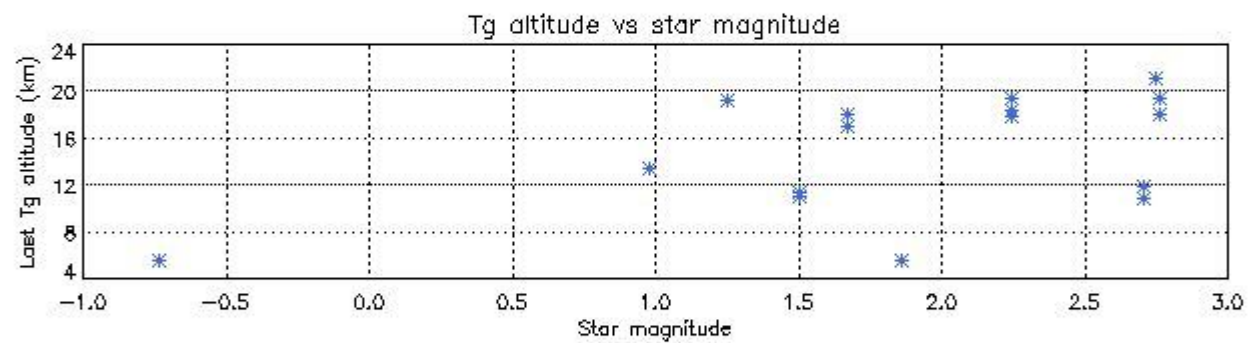
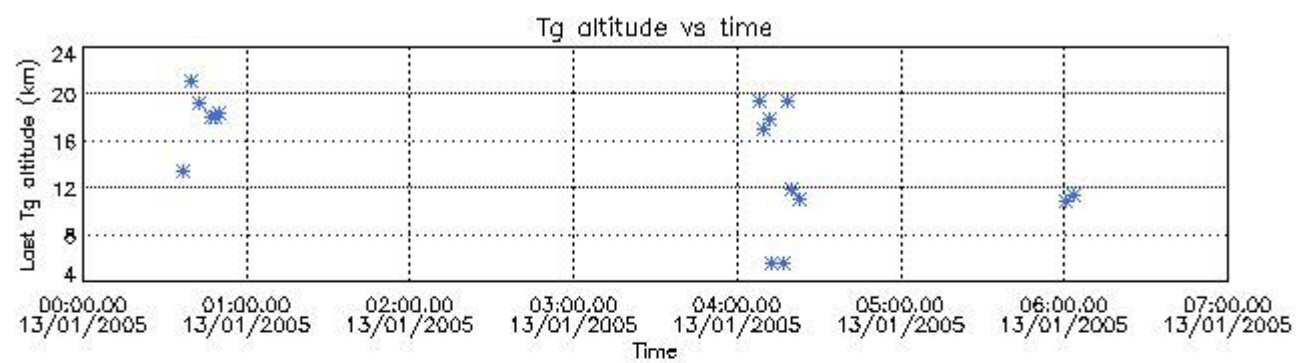
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.864	17.841	14.148
St. deviation:	4.9793	5.9027	4.1192
Maximum:	21.146	27.289	18.733
Minimum:	5.5429	5.8513	5.9534
Number of data:	16.000	24.000	8.0000

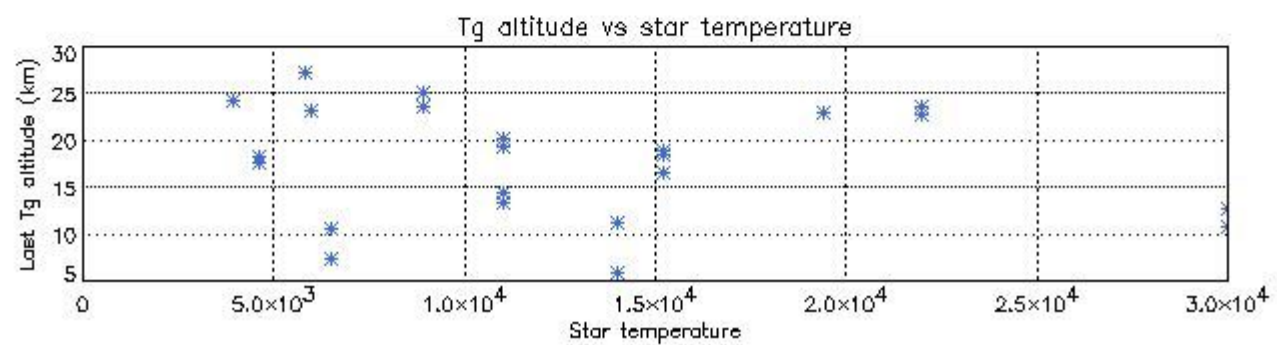
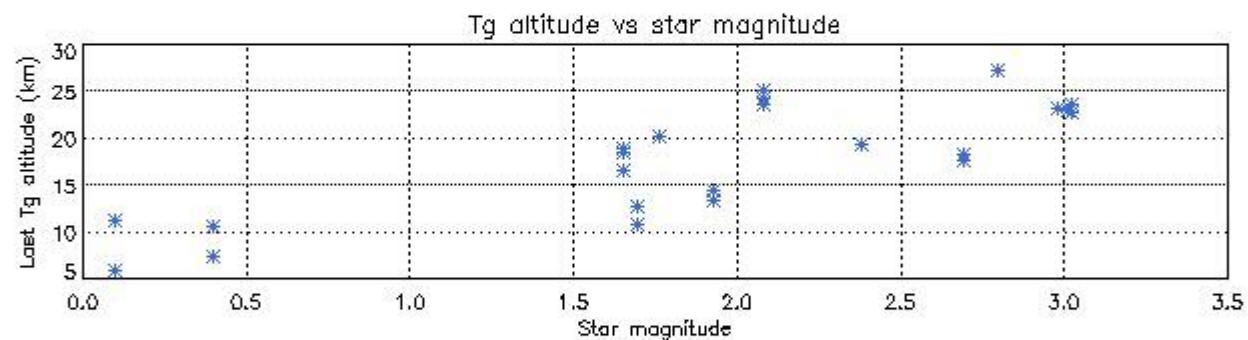
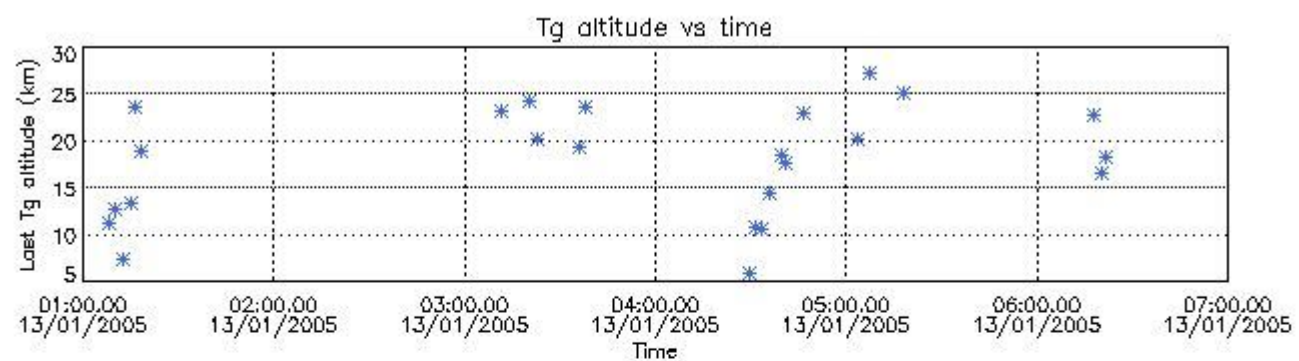
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



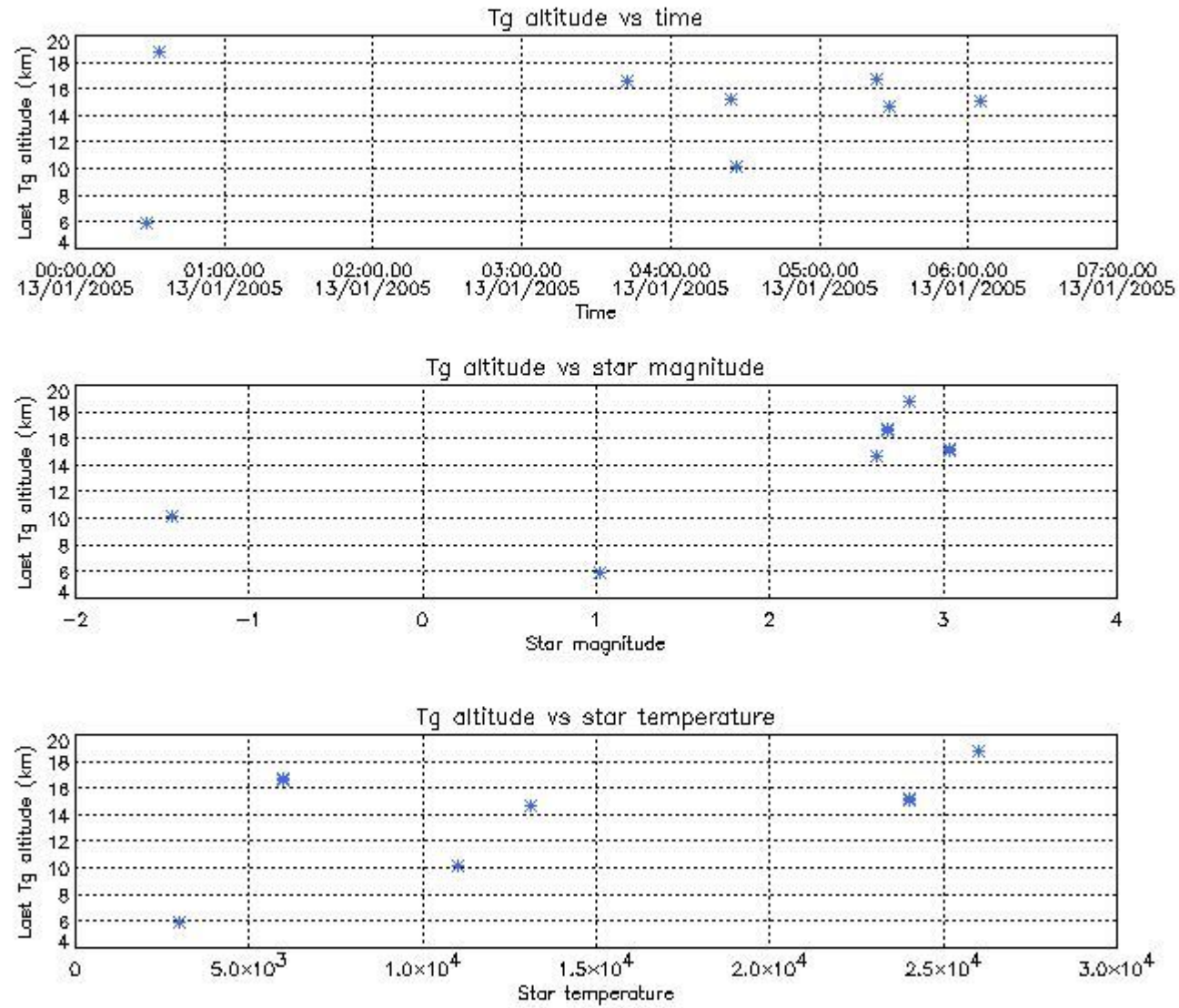
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

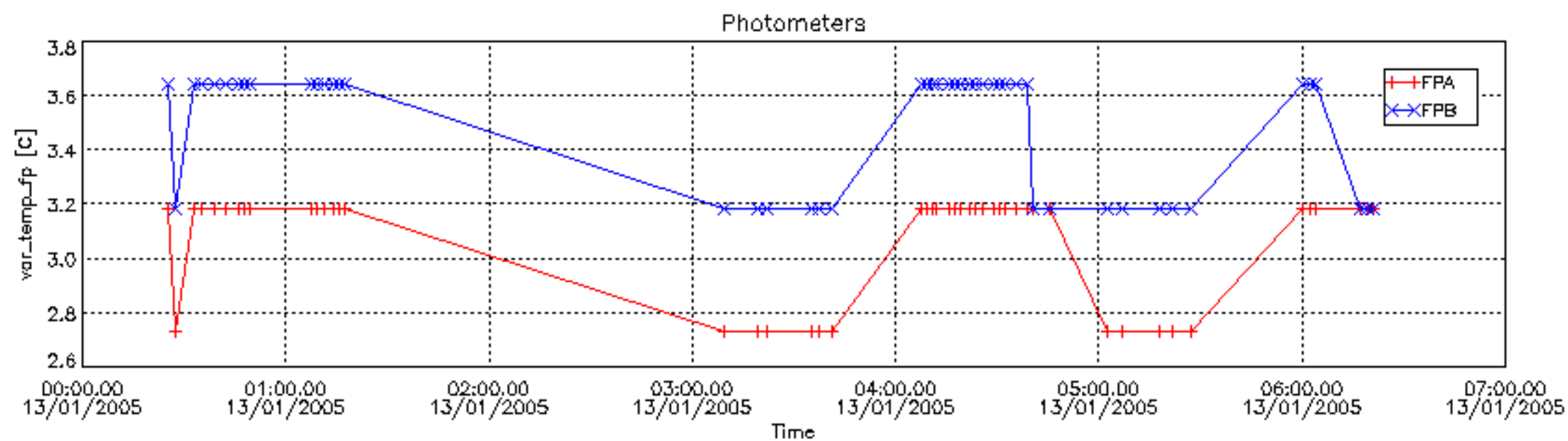
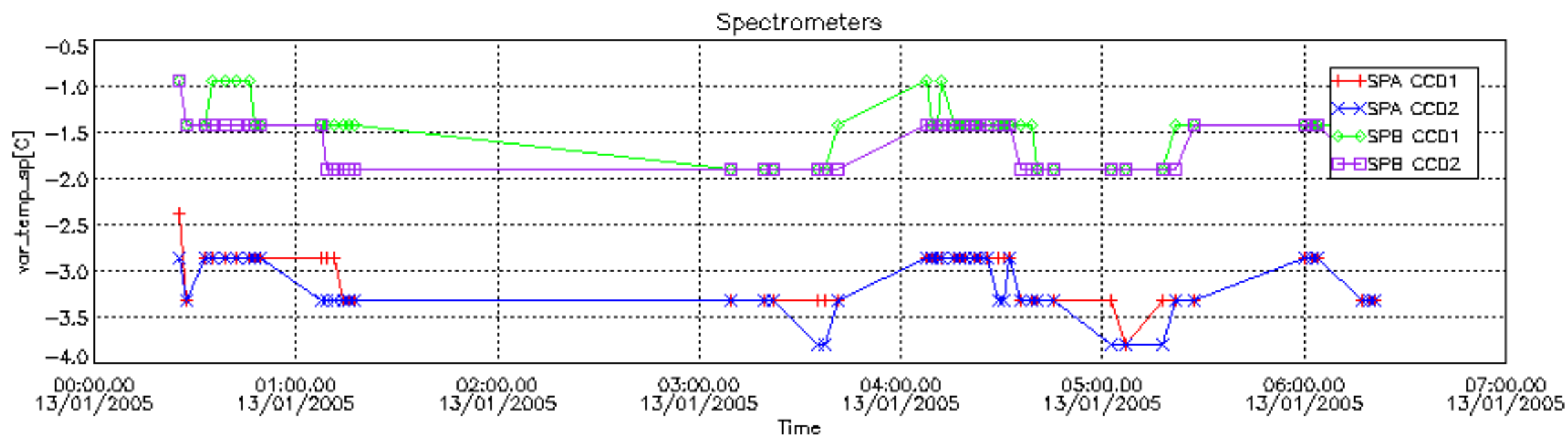
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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.

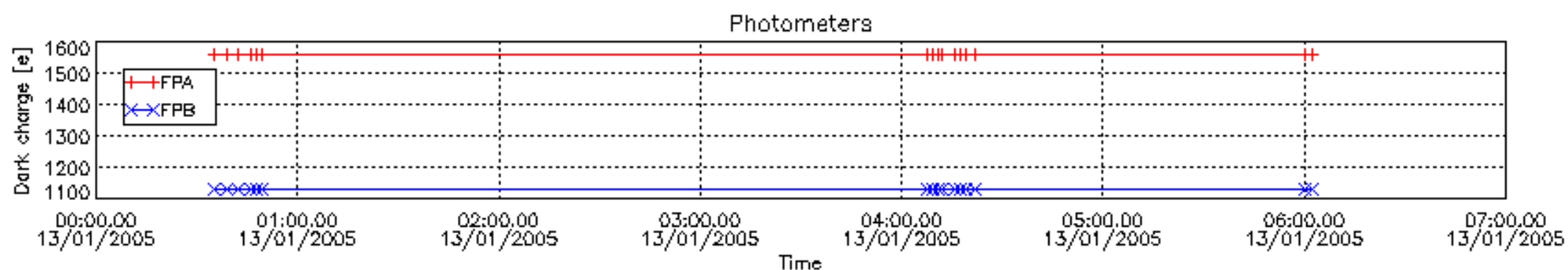
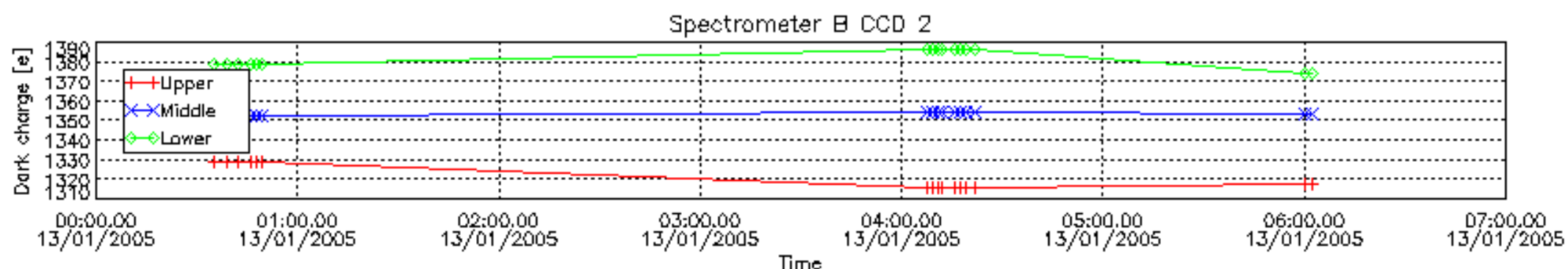
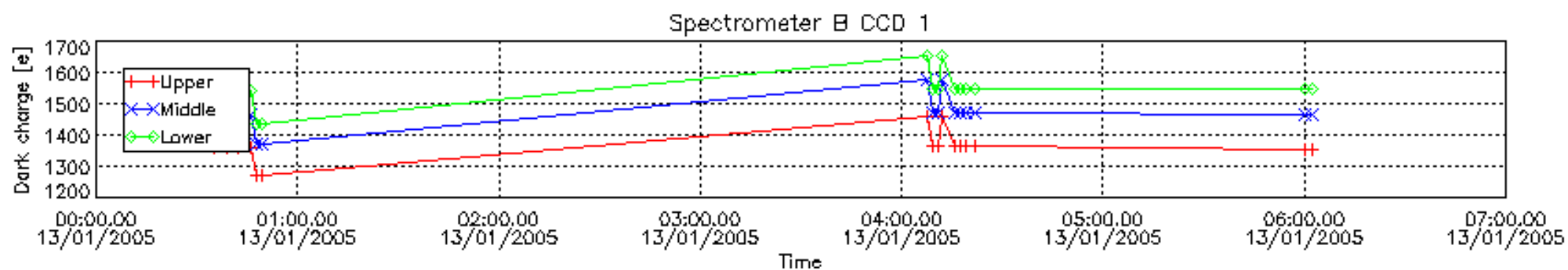
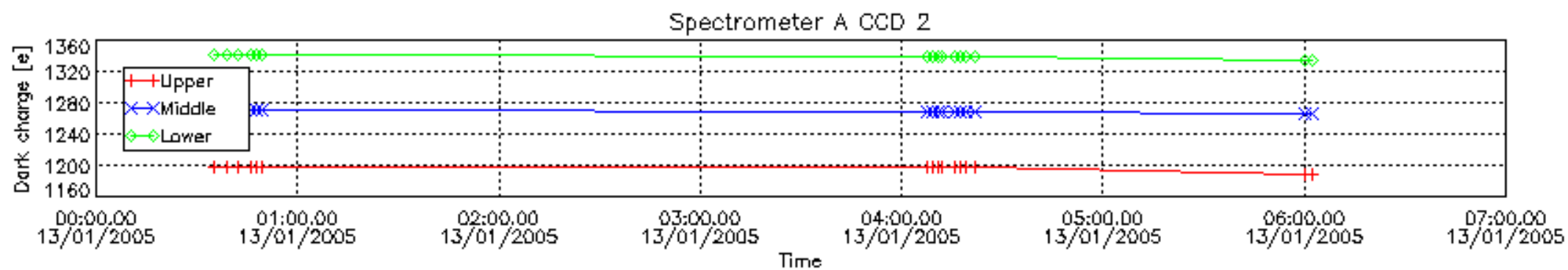
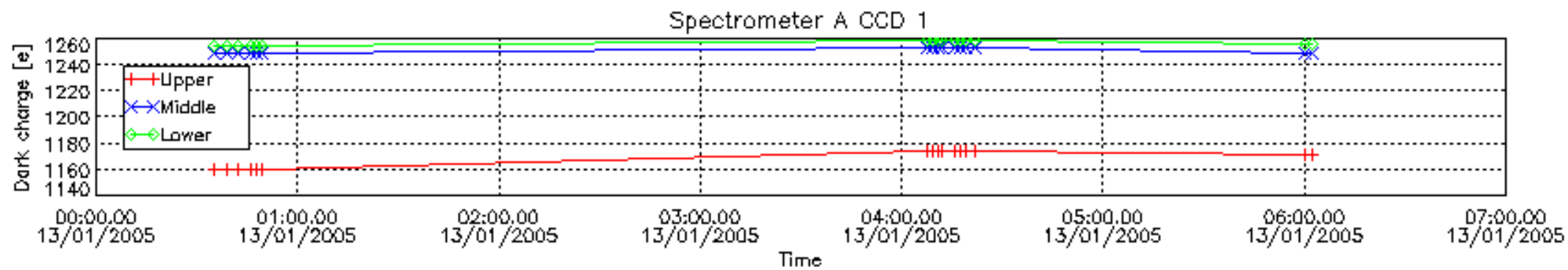
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.8	1446.6	1460.9	1446.7
St. deviation:	5.1569	6.5855	6.3396	7.7329
Maximum:	1497.0	1497.0	1518.0	1510.0
Minimum:	1448.0	1422.0	1446.0	1422.0
Number of data:	20050.	20050.	29350.	29350.

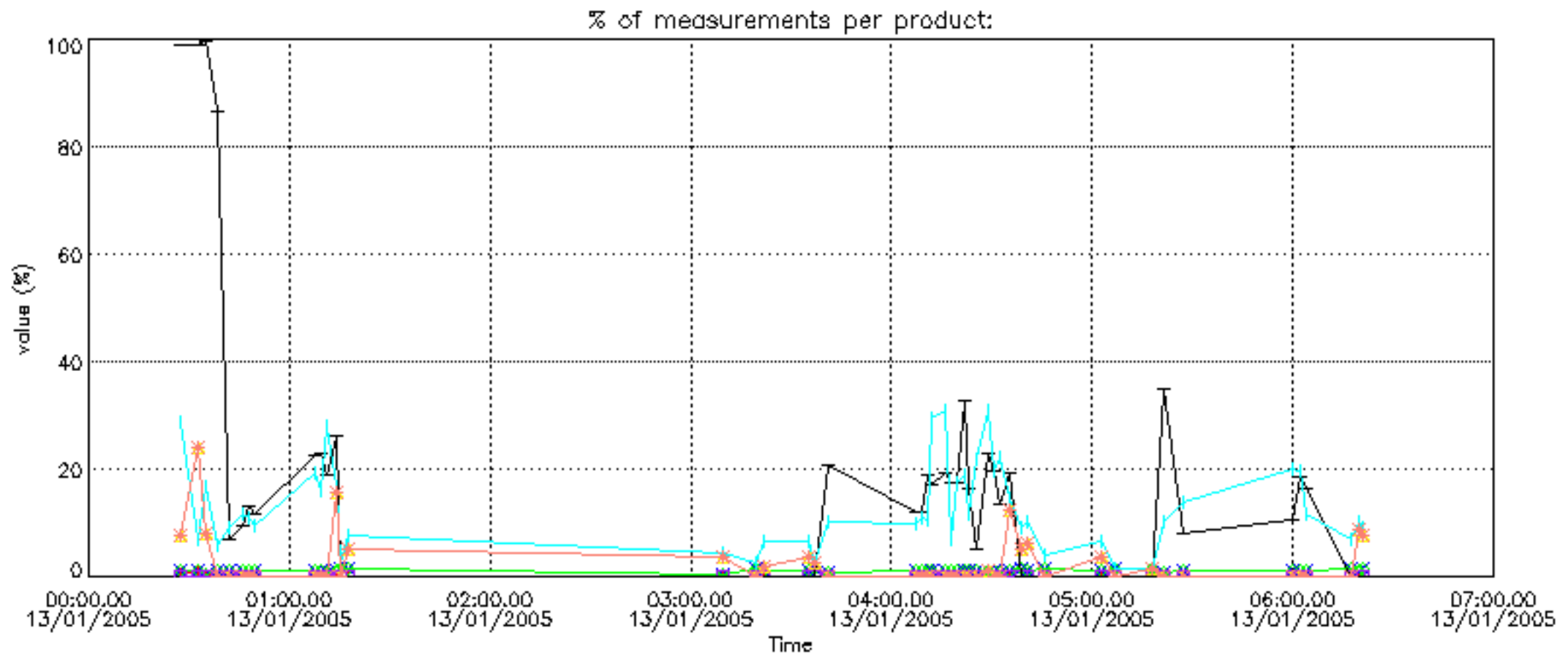
8. Auxiliary Data Files used for the production reported in section 2.2

The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

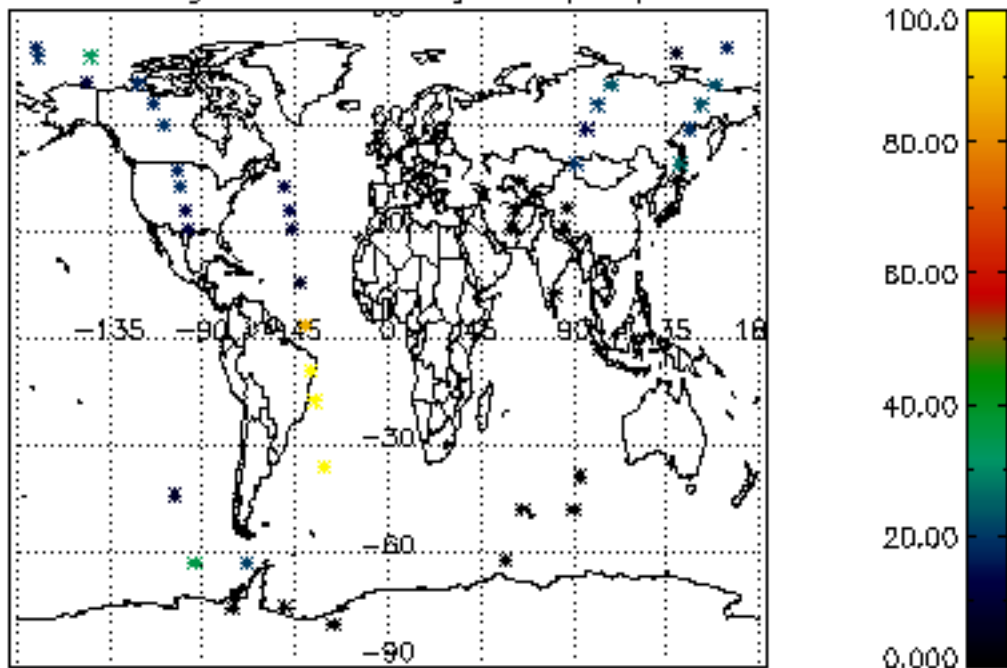
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	13-JAN-2005 00:25:18
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050110_095700_20050108_000000_20100101_000000	1	13-JAN-2005 00:25:18
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	13-JAN-2005 00:25:18
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-JAN-2005 00:25:18
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	13-JAN-2005 00:25:18
ECMWF_FILE	AUX_ECF_AXNECM20050112_060842_20050112_210000_20050113_090000	1	13-JAN-2005 00:25:18
ECMWF_FILE	AUX_ECF_AXNECM20050112_201844_20050113_030000_20050113_150000	17	13-JAN-2005 03:19:22
OPTIONAL_ECMWF_FILE	NOT USED	1	13-JAN-2005 00:25:18
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050112_224834_20050112_193553_20050122_210209	1	13-JAN-2005 00:25:18



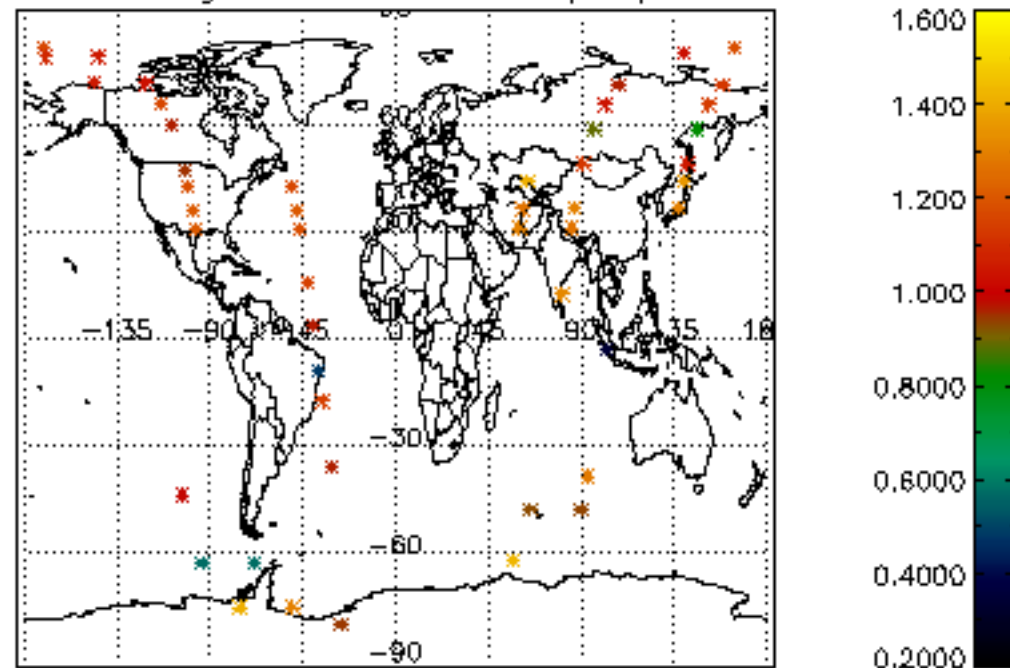




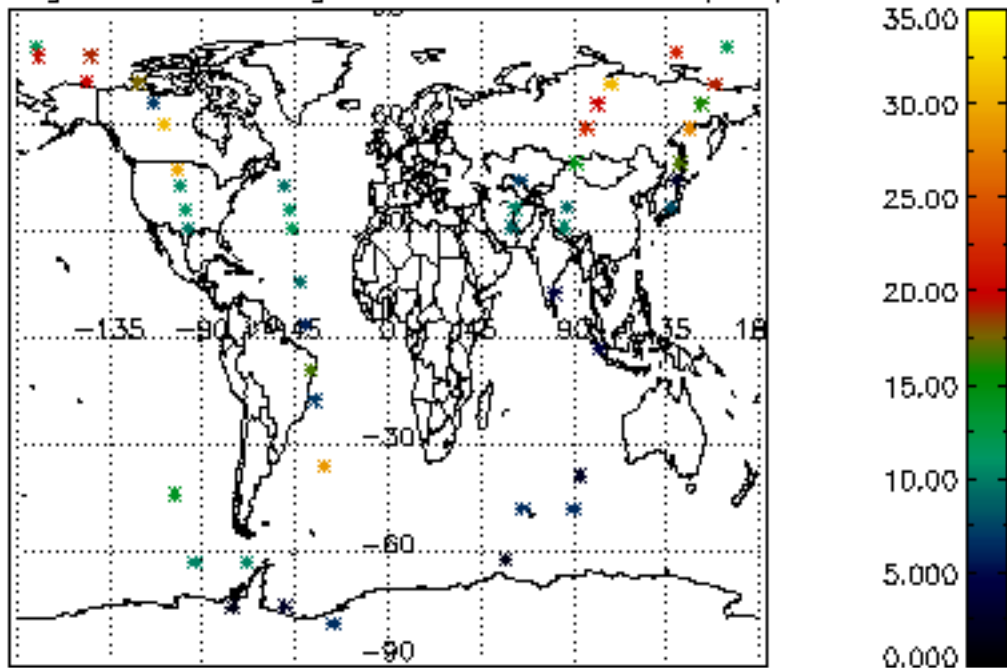
Percentage of cosmic ray hits per profile



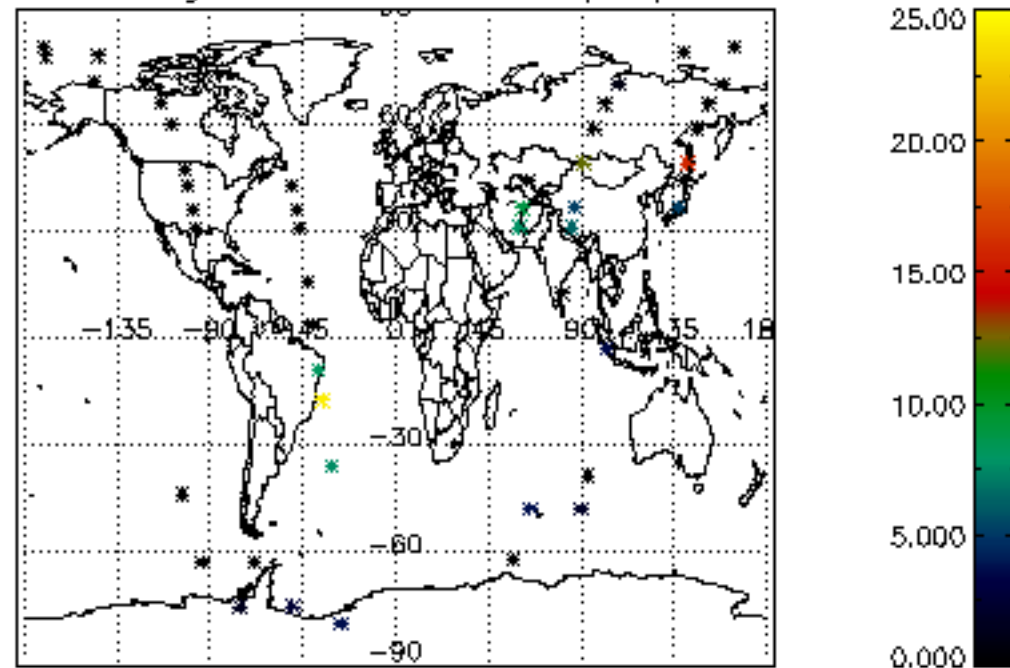
Percentage of datation errors per profile



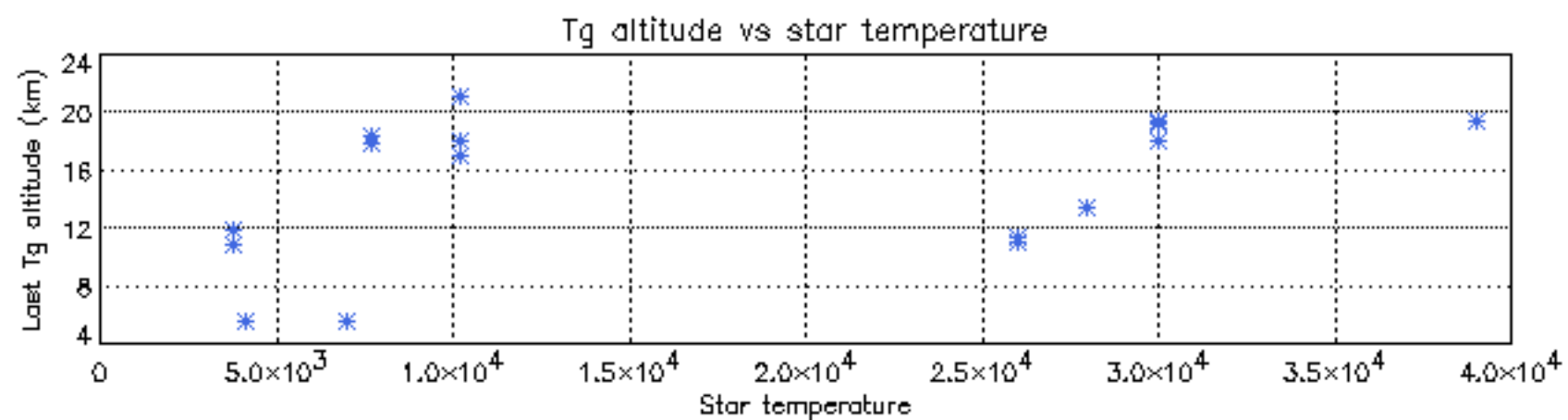
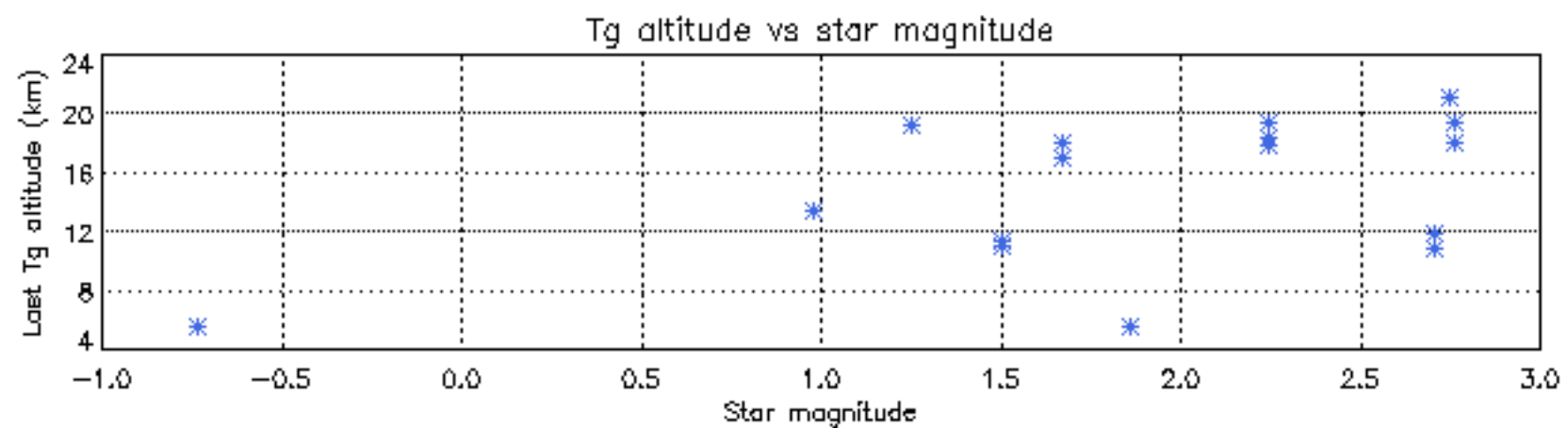
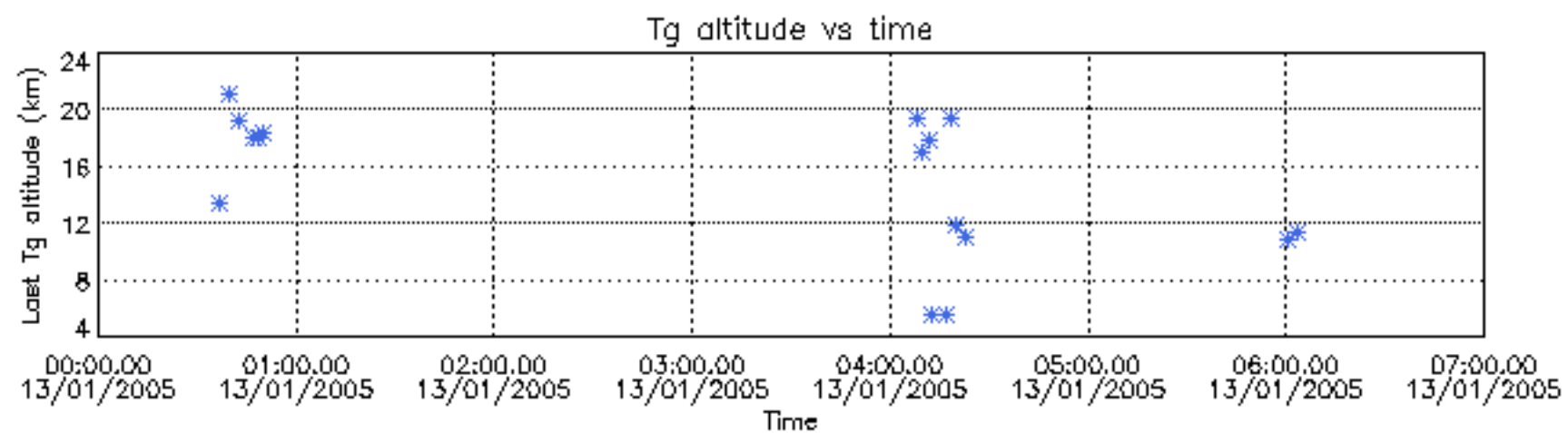
Percentage of star falling outside central band per profile



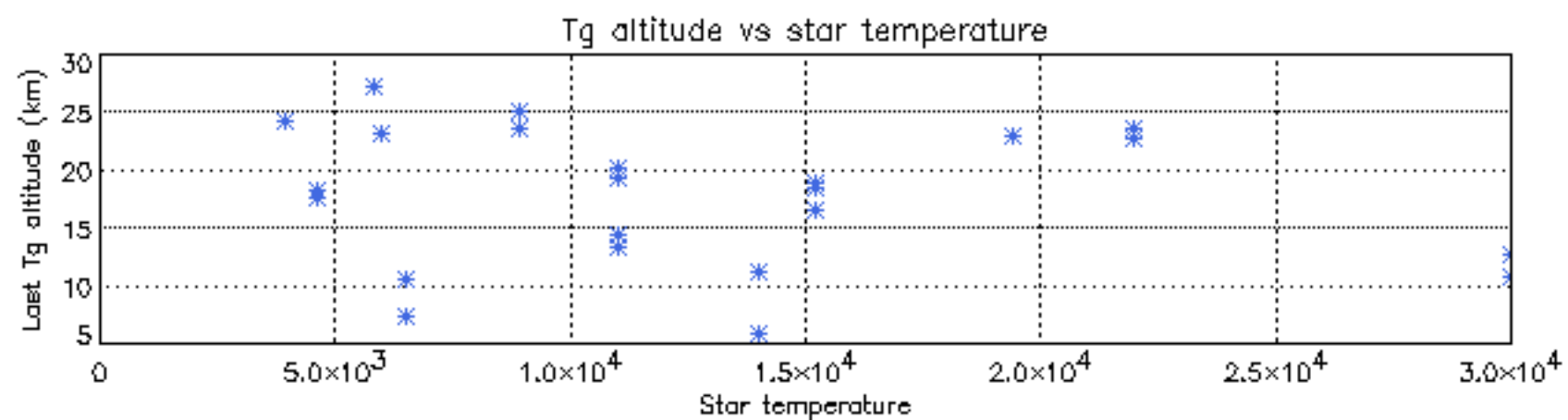
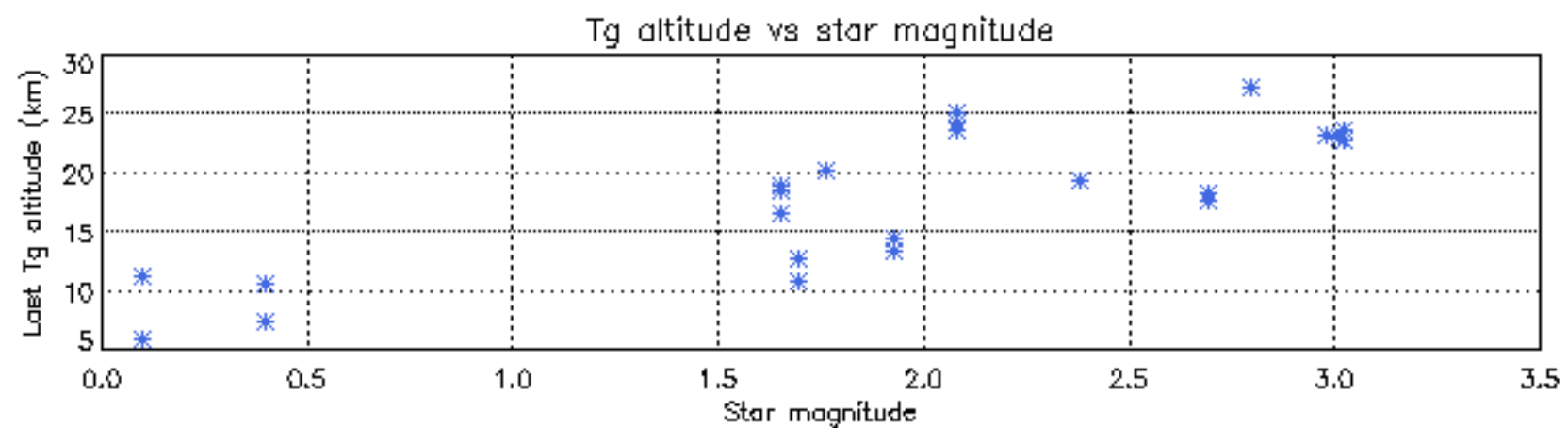
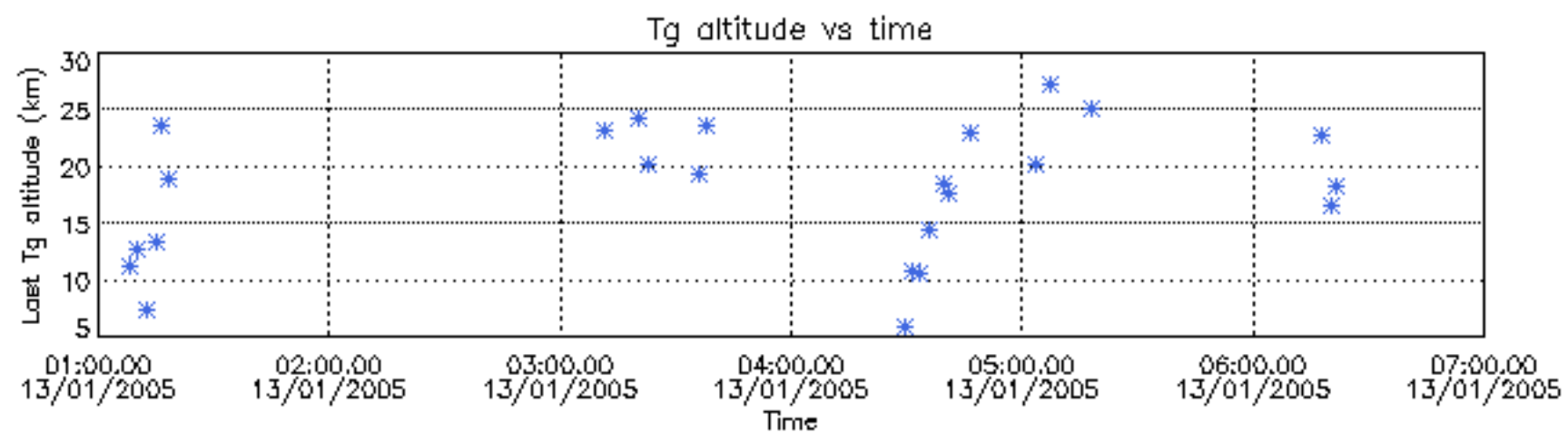
Percentage of saturation errors per profile



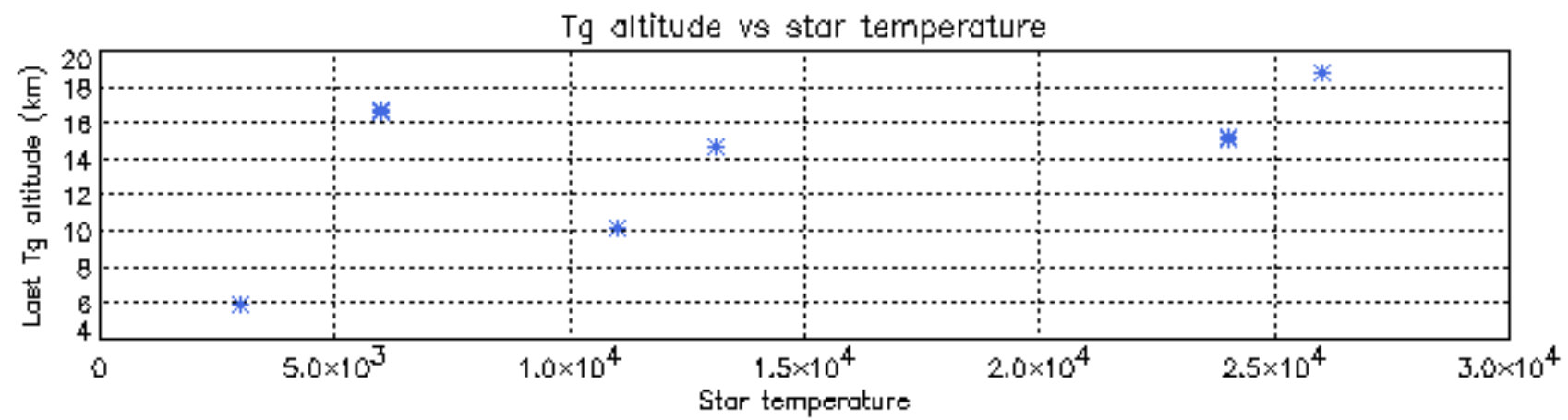
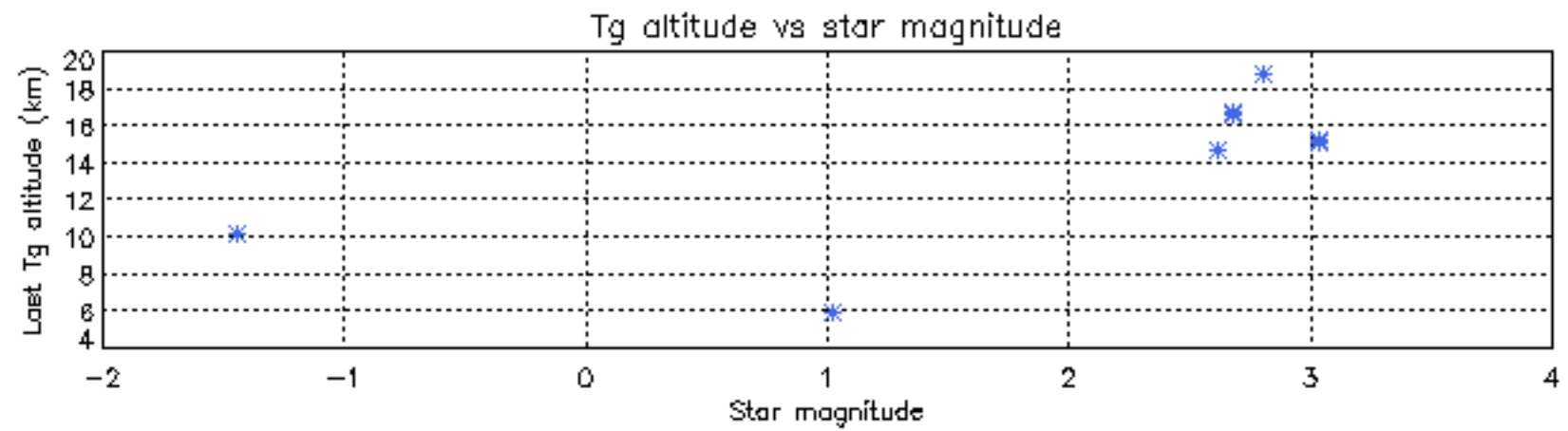
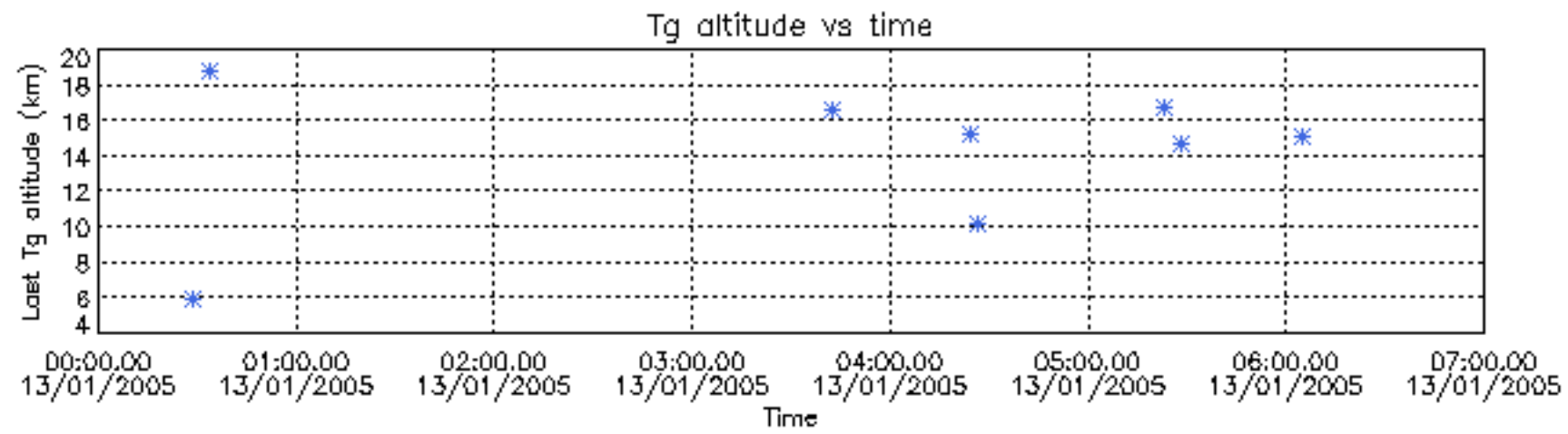
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20050101_000317_000059232033_00259_14842_1596.N1

1; -683.2; 01-JAN-2005 00:03:17; Dark ; 45.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 91; 0;14842
 2; -474.4; 01-JAN-2005 00:06:46; Dark ; 69.0; 15; 67Alp Vir ; 0.98; 28000;occ; 138; 0;14842
 3; -192.1; 01-JAN-2005 00:11:28; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;14842
 4; -105.7; 01-JAN-2005 00:12:55; Dark ; 45.0; 95; Zet Cen ; 2.55; 26000;occ; 90; 0;14842
 5; -2.3; 01-JAN-2005 00:14:38; Dark ; 45.0; 4; Alp1Cen ;-0.01; 5800;occ; 90; 0;14842
 6; 106.9; 01-JAN-2005 00:16:27; Dark ; 47.0; 64; Gam Cen ; 2.20; 10600;occ; 94; 0;14843
 7; 227.0; 01-JAN-2005 00:18:28; Dark ; 55.0; 12; Alp1Cru ; 0.77; 30000;occ; 110; 0;14843
 8; 400.9; 01-JAN-2005 00:21:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14843
 9; 547.0; 01-JAN-2005 00:23:48; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;14843
 10; 628.2; 01-JAN-2005 00:25:09; Dark ; 51.5; 71; Iot Car ; 2.25; 7700;occ; 103; 0;14843
 11; 725.4; 01-JAN-2005 00:26:46; Dark ; 55.0; 41; Eps Car ; 1.86; 4100;occ; 110; 0;14843
 12; 846.1; 01-JAN-2005 00:28:47; Dark ; 56.5; 65; Lam Vel ; 2.20; 4400;occ; 113; 0;14843
 13; 977.2; 01-JAN-2005 00:30:58; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;14843
 14; 1171.4; 01-JAN-2005 00:34:12; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;14843
 15; 1339.3; 01-JAN-2005 00:37:00; Dark ; 50.5; 23; 21Eps CMa ; 1.50; 26000;occ; 101; 0;14843
 16; 1432.6; 01-JAN-2005 00:38:33; Dark ; 46.5; 179; 240mi2Cma ; 3.03; 24000;occ; 93; 0;14843
 17; 1579.6; 01-JAN-2005 00:41:00; Dark ; 55.5; 1; 9Alp Cma ;-1.44; 11000;occ; 111; 0;14843
 18; 1768.2; 01-JAN-2005 00:44:09; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;14843
 19; 1879.6; 01-JAN-2005 00:46:00; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;14843
 20; 2091.3; 01-JAN-2005 00:49:32; Dark ; 83.0; 8; 10Alp Cmi ; 0.40; 6500;occ; 166; 0;14843
 21; 2226.9; 01-JAN-2005 00:51:47; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;14843
 22; 2323.7; 01-JAN-2005 00:53:24; Bright; 48.0; 151; 13Mu Gem ; 2.89; 3000;occ; 96; 0;14843
 23; 2470.5; 01-JAN-2005 00:55:51; Bright; 39.0; 114; 3Iot Aur ; 2.69; 4600;occ; 78; 0;14843
 24; 2562.0; 01-JAN-2005 00:57:23; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;14843
 25; 2690.9; 01-JAN-2005 00:59:32; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;14843
 26; 2799.5; 01-JAN-2005 01:01:20; Bright; 38.0; 35; 33Alp Per ; 1.79; 6250;occ; 76; 0;14843
 27; 2877.2; 01-JAN-2005 01:02:38; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 0;14843
 28; 3420.6; 01-JAN-2005 01:11:41; Bright; 38.5; 49; 1Alp Umi ; 1.99; 6300;occ; 77; 0;14843
 29; 3592.4; 01-JAN-2005 01:14:33; Bright; 50.0; 36; 50Alp UMa ; 1.80; 6300;occ; 100; 0;14843
 30; 3835.1; 01-JAN-2005 01:18:36; Bright; 56.5; 87; 64Gam UMa ; 2.43; 11000;occ; 113; 0;14843
 31; 3967.7; 01-JAN-2005 01:20:48; Bright; 46.5; 55; 79Zet UMa ; 2.06; 10200;occ; 93; 0;14843
 32; 4105.1; 01-JAN-2005 01:23:06; Bright; 48.5; 39; 85Eta UMa ; 1.85; 24000;occ; 97; 0;14843
 33; 4351.9; 01-JAN-2005 01:27:12; Bright; 62.0; 180; 27Gam Boo ; 3.04; 8000;occ; 124; 0;14843
 34; 4573.3; 01-JAN-2005 01:30:54; Bright; 62.0; 83; ; 2.38; 11000;occ; 124; 0;14843
 35; 4825.9; 01-JAN-2005 01:35:06; Bright; 56.5; 111; 8Eta Boo ; 2.68; 6000;occ; 113; 0;14843
 36; 5028.6; 01-JAN-2005 01:38:29; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;14843
 37; 5194.0; 01-JAN-2005 01:41:15; Bright; 47.0; 104; 27Bet Lib ; 2.61; 13100;occ; 94; 0;14843

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 2; -682.6; 01-JAN-2005 01:43:54; Dark ; 47.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 94; 0;14843
 3; -472.4; 01-JAN-2005 01:47:24; Dark ; 69.0; 15; 67Alp Vir ; 0.98; 28000;occ; 138; 0;14843
 4; -192.0; 01-JAN-2005 01:52:04; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;14843
 5; -103.3; 01-JAN-2005 01:53:33; Dark ; 43.0; 95; Zet Cen ; 2.55; 26000;occ; 86; 0;14843
 6; -1.3; 01-JAN-2005 01:55:15; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;14843
 7; 107.7; 01-JAN-2005 01:57:04; Dark ; 49.0; 64; Gam Cen ; 2.20; 10600;occ; 98; 0;14844
 8; 227.5; 01-JAN-2005 01:59:04; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;14844
 9; 401.2; 01-JAN-2005 02:01:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14844
 10; 547.0; 01-JAN-2005 02:04:23; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;14844
 11; 630.6; 01-JAN-2005 02:05:47; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;14844
 12; 723.5; 01-JAN-2005 02:07:20; Dark ; 54.0; 41; Eps Car ; 1.86; 4100;occ; 108; 0;14844
 13; 847.2; 01-JAN-2005 02:09:24; Dark ; 55.0; 65; Lam Vel ; 2.20; 4400;occ; 110; 0;14844
 14; 977.4; 01-JAN-2005 02:11:34; Dark ; 50.5; 2; Alp Car ;-0.74; 7000;occ; 101; 0;14844
 15; 1170.1; 01-JAN-2005 02:14:47; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;14844
 16; 1339.6; 01-JAN-2005 02:17:36; Dark ; 50.0; 23; 21Eps Cma ; 1.50; 26000;occ; 100; 0;14844
 17; 1432.3; 01-JAN-2005 02:19:09; Dark ; 45.5; 179; 240mi2Cma ; 3.03; 24000;occ; 91; 0;14844
 18; 1578.1; 01-JAN-2005 02:21:35; Dark ; 59.0; 1; 9Alp Cma ;-1.44; 11000;occ; 118; 0;14844
 19; 1767.7; 01-JAN-2005 02:24:44; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;14844
 20; 1877.4; 01-JAN-2005 02:26:34; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;14844
 21; 2090.4; 01-JAN-2005 02:30:07; Dark ; 69.5; 8; 10Alp Cmi ; 0.40; 6500;occ; 139; 0;14844
 22; 2226.3; 01-JAN-2005 02:32:23; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;14844
 23; 2321.7; 01-JAN-2005 02:33:58; Bright; 51.5; 151; 13Mu Gem ; 2.89; 3000;occ; 103; 0;14844
 24; 2470.5; 01-JAN-2005 02:36:27; Bright; 40.5; 114; 3Iot Aur ; 2.69; 4600;occ; 81; 0;14844
 25; 2563.4; 01-JAN-2005 02:38:00; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;14844
 26; 2690.9; 01-JAN-2005 02:40:07; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;14844
 27; 2800.2; 01-JAN-2005 02:41:57; Bright; 41.0; 35; 33Alp Per ; 1.79; 6250;occ; 82; 0;14844
 28; 2877.5; 01-JAN-2005 02:43:14; Bright; 39.0; 160; 23Gam Per ; 2.93; 4700;occ; 78; 0;14844
 29; 3418.8; 01-JAN-2005 02:52:15; Bright; 36.5; 49; 1Alp Umi ; 1.99; 6300;occ; 73; 0;14844

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1;-2444.4; 01-JAN-2005 02:55:08; Bright; 50.0; 36; 50Alp UMA ; 1.80; 6300;occ; 100; 0;14844
 2;-2201.7; 01-JAN-2005 02:59:11; Bright; 56.0; 87; 64Gam UMA ; 2.43; 11000;occ; 112; 0;14844
 3;-2069.2; 01-JAN-2005 03:01:23; Bright; 48.0; 55; 79Zet UMA ; 2.06; 10200;occ; 96; 0;14844
 4;-1931.2; 01-JAN-2005 03:03:41; Bright; 47.5; 39; 85Eta UMA ; 1.85; 24000;occ; 95; 0;14844
 5;-1684.3; 01-JAN-2005 03:07:48; Bright; 42.0; 180; 27Gam Boo ; 3.04; 8000;occ; 84; 0;14844
 6;-1462.8; 01-JAN-2005 03:11:30; Bright; 46.5; 83; ; 2.38; 11000;occ; 93; 0;14844
 7;-1209.1; 01-JAN-2005 03:15:43; Bright; 54.5; 111; 8Eta Boo ; 2.68; 6000;occ; 109; 0;14844
 8;-1007.7; 01-JAN-2005 03:19:05; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;14844
 9; -842.1; 01-JAN-2005 03:21:50; Bright; 52.5; 104; 27Bet Lib ; 2.61; 13100;occ; 105; 0;14844
 10; -681.9; 01-JAN-2005 03:24:30; Dark ; 47.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 95; 0;14844
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 12; -279.9; 01-JAN-2005 03:31:12; Dark ; 40.0; 109; Bet Lup ; 2.68; 26000;occ; 80; 0;14844
 13; -191.3; 01-JAN-2005 03:32:41; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;14844
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 17; 401.5; 01-JAN-2005 03:42:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14845
 18; 547.9; 01-JAN-2005 03:45:00; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;14845
 19; 631.8; 01-JAN-2005 03:46:24; Dark ; 50.0; 71; Iot Car ; 2.25; 7700;occ; 100; 0;14845
 20; 726.8; 01-JAN-2005 03:47:59; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;14845
 21; 847.6; 01-JAN-2005 03:50:00; Dark ; 56.5; 65; Lam Vel ; 2.20; 4400;occ; 113; 0;14845
 22; 978.8; 01-JAN-2005 03:52:11; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;14845
 23; 1173.0; 01-JAN-2005 03:55:25; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;14845
 24; 1340.7; 01-JAN-2005 03:58:13; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;14845
 25; 1432.4; 01-JAN-2005 03:59:45; Dark ; 48.0; 179; 240mi2CMA ; 3.03; 24000;occ; 96; 0;14845
 26; 1580.7; 01-JAN-2005 04:02:13; Dark ; 53.5; 1; 9Alp CMA ;-1.44; 11000;occ; 107; 0;14845
 27; 1768.6; 01-JAN-2005 04:05:21; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;14845
 28; 1879.9; 01-JAN-2005 04:07:12; Dark ; 43.5; 30; 46Eps Ori ; 1.69; 30000;occ; 87; 0;14845
 29; 2089.8; 01-JAN-2005 04:10:42; Dark ; 71.0; 8; 10Alp CMi ; 0.40; 6500;occ; 142; 0;14845
 30; 2225.7; 01-JAN-2005 04:12:58; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;14845
 31; 2323.8; 01-JAN-2005 04:14:36; Bright; 48.0; 151; 13Mu Gem ; 2.89; 3000;occ; 96; 0;14845
 32; 2470.6; 01-JAN-2005 04:17:03; Bright; 41.0; 114; 3Iot Aur ; 2.69; 4600;occ; 82; 0;14845
 33; 2563.8; 01-JAN-2005 04:18:36; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;14845
 34; 2690.8; 01-JAN-2005 04:20:43; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;14845
 35; 2800.2; 01-JAN-2005 04:22:33; Bright; 37.5; 35; 33Alp Per ; 1.79; 6250;occ; 75; 0;14845
 36; 2877.9; 01-JAN-2005 04:23:50; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;14845
 37; 3420.9; 01-JAN-2005 04:32:53; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;14845
 38; 3590.6; 01-JAN-2005 04:35:43; Bright; 50.5; 36; 50Alp UMa ; 1.80; 6300;occ; 101; 0;14845

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1;-2400.9; 01-JAN-2005 04:36:27; Bright; 51.0; 36; 50Alp UMA ; 1.80; 6300;occ; 102; 89;14845
 2;-2202.3; 01-JAN-2005 04:39:46; Bright; 56.0; 87; 64Gam UMA ; 2.43; 11000;occ; 112; 0;14845
 3;-2068.9; 01-JAN-2005 04:41:59; Bright; 47.5; 55; 79Zet UMA ; 2.06; 10200;occ; 95; 0;14845
 4;-1931.2; 01-JAN-2005 04:44:17; Bright; 48.0; 39; 85Eta UMA ; 1.85; 24000;occ; 96; 0;14845
 5;-1684.3; 01-JAN-2005 04:48:24; Bright; 42.5; 180; 27Gam Boo ; 3.04; 8000;occ; 85; 0;14845
 6;-1463.2; 01-JAN-2005 04:52:05; Bright; 62.0; 83; ; 2.38; 11000;occ; 124; 0;14845
 7;-1209.2; 01-JAN-2005 04:56:19; Bright; 56.5; 111; 8Eta Boo ; 2.68; 6000;occ; 113; 0;14845
 8;-1009.1; 01-JAN-2005 04:59:39; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;14845
 9; -840.6; 01-JAN-2005 05:02:28; Bright; 39.5; 104; 27Bet Lib ; 2.61; 13100;occ; 79; 0;14845
 10; -680.8; 01-JAN-2005 05:05:08; Dark ; 43.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 86; 0;14845
 11; -470.2; 01-JAN-2005 05:08:38; Dark ; 83.5; 15; 67Alp Vir ; 0.98; 28000;occ; 167; 0;14845
 12; -280.0; 01-JAN-2005 05:11:48; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;14845
 13; -191.1; 01-JAN-2005 05:13:17; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;14845
 14; -100.9; 01-JAN-2005 05:14:47; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;14845
 15; -0.4; 01-JAN-2005 05:16:28; Dark ; 52.0; 4; Alp1Cen ;-0.01; 5800;occ; 104; 0;14845
 16; 231.6; 01-JAN-2005 05:20:20; Dark ; 51.5; 12; Alp1Cru ; 0.77; 30000;occ; 103; 0;14846
 17; 401.7; 01-JAN-2005 05:23:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14846
 18; 548.6; 01-JAN-2005 05:25:37; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;14846
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 22; 979.1; 01-JAN-2005 05:32:47; Dark ; 40.5; 2; Alp Car ;-0.74; 7000;occ; 81; 0;14846
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 24; 1341.2; 01-JAN-2005 05:38:50; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;14846
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 26; 1581.1; 01-JAN-2005 05:42:49; Dark ; 59.0; 1; 9Alp CMA ;-1.44; 11000;occ; 118; 0;14846
 27; 1769.0; 01-JAN-2005 05:45:57; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;14846
 28; 1880.6; 01-JAN-2005 05:47:49; Dark ; 46.0; 30; 46Eps Ori ; 1.69; 30000;occ; 92; 0;14846

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29; 2088.8; 01-JAN-2005 05:51:17; Dark ; 74.5; 8; 10Alp CMi ; 0.40; 6500;occ; 149; 0;14846
30; 2225.7; 01-JAN-2005 05:53:34; Dark ; 53.0; 44; 24Gam Gem ; 1.93; 11000;occ; 106; 0;14846
31; 2323.8; 01-JAN-2005 05:55:12; Bright; 47.5; 151; 13Mu Gem ; 2.89; 3000;occ; 95; 0;14846
32; 2471.3; 01-JAN-2005 05:57:40; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79; 0;14846
33; 2564.2; 01-JAN-2005 05:59:13; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;14846
34; 2690.9; 01-JAN-2005 06:01:19; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;14846
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37; 5033.4; 03-JAN-2005 00:35:20; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;14871
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6;	-84.9;	03-JAN-2005	00:50:37;	Dark	;	44.0;	95;	Zet Cen	;	2.55;	26000;occ;	88;	0;	14871
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9;	243.8;	03-JAN-2005	00:56:06;	Dark	;	52.0;	12;	Alp1Cru	;	0.77;	30000;occ;	104;	0;	14872
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11;	557.9;	03-JAN-2005	01:01:20;	Dark	;	40.5;	29;	Bet Car	;	1.67;	10200;occ;	81;	0;	14872
12;	643.7;	03-JAN-2005	01:02:46;	Dark	;	46.0;	71;	Iot Car	;	2.25;	7700;occ;	92;	0;	14872
13;	738.1;	03-JAN-2005	01:04:20;	Dark	;	45.5;	41;	Eps Car	;	1.86;	4100;occ;	91;	0;	14872
14;	867.3;	03-JAN-2005	01:06:29;	Dark	;	55.0;	65;	Lam Vel	;	2.20;	4400;occ;	110;	0;	14872
15;	985.4;	03-JAN-2005	01:08:27;	Dark	;	45.5;	2;	Alp Car	;	-0.74;	7000;occ;	91;	0;	14872
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17;	1347.0;	03-JAN-2005	01:14:29;	Dark	;	50.0;	23;	21Eps CMA	;	1.50;	26000;occ;	100;	0;	14872
18;	1436.6;	03-JAN-2005	01:15:59;	Dark	;	49.0;	179;	240mi2CMA	;	3.03;	24000;occ;	98;	0;	14872
19;	1583.9;	03-JAN-2005	01:18:26;	Dark	;	55.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	110;	0;	14872
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22;	2074.3;	03-JAN-2005	01:26:36;	Dark	;	69.5;	8;	10Alp CMI	;	0.40;	6500;occ;	139;	0;	14872
23;	2217.2;	03-JAN-2005	01:28:59;	Dark	;	51.0;	44;	24Gam Gem	;	1.93;	11000;occ;	102;	0;	14872
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25;	2469.4;	03-JAN-2005	01:33:11;	Bright;	;	41.0;	114;	3Iot Aur	;	2.69;	4600;occ;	82;	0;	14872
26;	2555.1;	03-JAN-2005	01:34:37;	Bright;	;	42.5;	107;	37The Aur	;	2.65;	11000;occ;	85;	0;	14872
27;	2687.7;	03-JAN-2005	01:36:50;	Bright;	;	43.5;	6;	13Alp Aur	;	0.08;	3400;occ;	87;	0;	14872
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29;	2886.6;	03-JAN-2005	01:40:09;	Bright;	;	38.0;	160;	23Gam Per	;	2.93;	4700;occ;	76;	0;	14872
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31;	3573.3;	03-JAN-2005	01:51:35;	Bright;	;	52.0;	36;	50Alp UMA	;	1.80;	6300;occ;	104;	0;	14872
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33;	3815.6;	03-JAN-2005	01:55:38;	Bright;	;	56.5;	87;	64Gam UMA	;	2.43;	11000;occ;	113;	0;	14872
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35;	4099.9;	03-JAN-2005	02:00:22;	Bright;	;	48.0;	39;	85Eta UMA	;	1.85;	24000;occ;	96;	0;	14872
36;	4334.6;	03-JAN-2005	02:04:17;	Bright;	;	64.0;	152;	12Alp2CVn	;	2.89;	11000;occ;	128;	0;	14872
37;	4579.9;	03-JAN-2005	02:08:22;	Bright;	;	46.0;	83;		;	2.38;	11000;occ;	92;	0;	14872
38;	4843.5;	03-JAN-2005	02:12:46;	Bright;	;	57.5;	111;	8Eta Boo	;	2.68;	6000;occ;	115;	0;	14872
39;	5033.7;	03-JAN-2005	02:15:56;	Bright;	;	34.0;	120;	1Del Oph	;	2.73;	3200;occ;	68;	0;	14872
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4;	-429.6;	03-JAN-2005	02:25:28;	Dark	;	87.5;	15;	67Alp Vir	;	0.98;	28000;occ;	175;	0;	14872
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13;	739.0;	03-JAN-2005	02:44:57;	Dark	;	47.0;	41;	Eps Car	;	1.86;	4100;occ;	94;	0;	14873
14;	867.6;	03-JAN-2005	02:47:05;	Dark	;	55.0;	65;	Lam Vel	;	2.20;	4400;occ;	110;	0;	14873
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21;	1881.3;	03-JAN-2005	03:03:59;	Dark	;	43.0;	30;	46Eps Ori	;	1.69;	30000;occ;	86;	0;	14873
22;	2073.8;	03-JAN-2005	03:07:12;	Dark	;	73.5;	8;	10Alp CMI	;	0.40;	6500;occ;	147;	0;	14873
23;	2217.3;	03-JAN-2005	03:09:35;	Dark	;	47.0;	44;	24Gam Gem	;	1.93;	11000;occ;	94;	0;	14873
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25;	2469.5;	03-JAN-2005	03:13:47;	Bright;	;	42.5;	114;	3Iot Aur	;	2.69;	4600;occ;	85;	0;	14873
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22; 739.4; 03-JAN-2005 06:06:09; Dark ; 47.0; 41; Eps Car ; 1.86; 4100;occ; 94; 0;14875
23; 868.9; 03-JAN-2005 06:08:19; Dark ; 61.5; 65; Lam Vel ; 2.20; 4400;occ; 123; 0;14875
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27; 1440.0; 03-JAN-2005 06:17:50; Dark ; 45.5; 179; 24Omi2CMA ; 3.03; 24000;occ; 91; 0;14875

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26;	2892.4;	04-JAN-2005	02:49:13;	Bright;	38.5;	160;	23Gam Per	; 2.93;	4700;	occ;	77;	0;	14887
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17;	191.1;	04-JAN-2005	03:44:48;	Dark	; 43.5;	20;	Bet Cru	; 1.25;	30000;	occ;	87;	0;	14888
18;	414.1;	04-JAN-2005	03:48:31;	Dark	; 59.5;	0;		; 0.00;	0;	occ;	119;	0;	14888
19;	562.2;	04-JAN-2005	03:50:59;	Dark	; 42.5;	29;	Bet Car	; 1.67;	10200;	occ;	85;	0;	14888
20;	654.0;	04-JAN-2005	03:52:31;	Dark	; 43.5;	71;	Iot Car	; 2.25;	7700;	occ;	87;	0;	14888
21;	745.4;	04-JAN-2005	03:54:02;	Dark	; 55.0;	41;	Eps Car	; 1.86;	4100;	occ;	110;	0;	14888
22;	877.4;	04-JAN-2005	03:56:14;	Dark	; 55.5;	65;	Lam Vel	; 2.20;	4400;	occ;	111;	0;	14888
23;	987.0;	04-JAN-2005	03:58:04;	Dark	; 47.0;	2;	Alp Car	;-0.74;	7000;	occ;	94;	0;	14888
24;	1185.6;	04-JAN-2005	04:01:22;	Dark	; 50.5;	117;	Pi Pup	; 2.71;	3800;	occ;	101;	0;	14888
25;	1351.2;	04-JAN-2005	04:04:08;	Dark	; 50.0;	23;	21Eps CMA	; 1.50;	26000;	occ;	100;	0;	14888
26;	1441.8;	04-JAN-2005	04:05:38;	Dark	; 46.5;	179;	240mi2CMA	; 3.03;	24000;	occ;	93;	0;	14888
27;	1583.6;	04-JAN-2005	04:08:00;	Dark	; 54.5;	1;	9Alp CMA	;-1.44;	11000;	occ;	109;	0;	14888
28;	1774.6;	04-JAN-2005	04:11:11;	Dark	; 48.0;	7;	19Bet Ori	; 0.10;	14000;	occ;	96;	0;	14888
29;	1883.1;	04-JAN-2005	04:13:00;	Dark	; 44.5;	30;	46Eps Ori	; 1.69;	30000;	occ;	89;	0;	14888
30;	2066.2;	04-JAN-2005	04:16:03;	Dark	; 65.5;	8;	10Alp CMi	; 0.40;	6500;	occ;	131;	0;	14888
31;	2210.4;	04-JAN-2005	04:18:27;	Dark	; 50.5;	44;	24Gam Gem	; 1.93;	11000;	occ;	101;	0;	14888
32;	2312.2;	04-JAN-2005	04:20:09;	Bright;	48.5;	151;	13Mu Gem	; 2.89;	3000;	occ;	97;	0;	14888
33;	2470.5;	04-JAN-2005	04:22:47;	Bright;	41.5;	114;	3Iot Aur	; 2.69;	4600;	occ;	83;	0;	14888
34;	2554.5;	04-JAN-2005	04:24:11;	Bright;	39.5;	107;	37The Aur	; 2.65;	11000;	occ;	79;	0;	14888
35;	2687.3;	04-JAN-2005	04:26:24;	Bright;	43.5;	6;	13Alp Aur	; 0.08;	3400;	occ;	87;	0;	14888
36;	2814.0;	04-JAN-2005	04:28:31;	Bright;	37.5;	35;	33Alp Per	; 1.79;	6250;	occ;	75;	0;	14888
37;	2892.7;	04-JAN-2005	04:29:49;	Bright;	37.0;	160;	23Gam Per	; 2.93;	4700;	occ;	74;	0;	14888
38;	3421.0;	04-JAN-2005	04:38:38;	Bright;	37.5;	49;	1Alp UMi	; 1.99;	6300;	occ;	75;	0;	14888
39;	3562.1;	04-JAN-2005	04:40:59;	Bright;	41.5;	36;	50Alp UMA	; 1.80;	6300;	occ;	83;	0;	14888

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1;	-2470.4;	04-JAN-2005	04:41:02;	Bright;	50.5;	36;	50Alp UMA	; 1.80;	6300;occ;	101;	7;	14888
2;	-2352.4;	04-JAN-2005	04:43:00;	Bright;	40.0;	60;	7Bet UMi	; 2.08;	3950;occ;	80;	0;	14888
3;	-2231.5;	04-JAN-2005	04:45:01;	Bright;	50.5;	87;	64Gam UMA	; 2.43;	11000;occ;	101;	0;	14888
4;	-2083.3;	04-JAN-2005	04:47:29;	Bright;	46.5;	55;	79Zet UMA	; 2.06;	10200;occ;	93;	0;	14888
5;	-1939.5;	04-JAN-2005	04:49:53;	Bright;	49.0;	39;	85Eta UMA	; 1.85;	24000;occ;	98;	0;	14888
6;	-1704.7;	04-JAN-2005	04:53:48;	Bright;	66.0;	152;	12Alp2CVn	; 2.89;	11000;occ;	132;	0;	14888
7;	-1452.4;	04-JAN-2005	04:58:00;	Bright;	45.5;	83;		; 2.38;	11000;occ;	91;	0;	14888
8;	-1243.6;	04-JAN-2005	05:01:29;	Bright;	60.5;	3;	16Alp Boo	; -0.05;	4250;occ;	121;	0;	14888
9;	-1131.9;	04-JAN-2005	05:03:21;	Bright;	47.5;	102;	24Alp Ser	; 2.60;	4250;occ;	95;	0;	14888
10;	-995.5;	04-JAN-2005	05:05:37;	Bright;	38.0;	120;	1Del Oph	; 2.73;	3200;occ;	76;	0;	14888
11;	-820.3;	04-JAN-2005	05:08:32;	Bright;	42.0;	104;	27Bet Lib	; 2.61;	13100;occ;	84;	0;	14888
12;	-653.3;	04-JAN-2005	05:11:19;	Dark	; 44.0;	122;	9Alp2Lib	; 2.75;	9700;occ;	88;	0;	14888
13;	-404.3;	04-JAN-2005	05:15:28;	Dark	; 76.5;	15;	67Alp Vir	; 0.98;	28000;occ;	153;	0;	14888
14;	-259.6;	04-JAN-2005	05:17:53;	Dark	; 40.0;	109;	Bet Lup	; 2.68;	26000;occ;	80;	0;	14888
15;	-170.4;	04-JAN-2005	05:19:22;	Dark	; 41.5;	78;	Alp Lup	; 2.30;	28000;occ;	83;	0;	14888
16;	-73.3;	04-JAN-2005	05:20:59;	Dark	; 42.0;	95;	Zet Cen	; 2.55;	26000;occ;	84;	0;	14888
17;	13.7;	04-JAN-2005	05:22:26;	Dark	; 53.0;	4;	Alp1Cen	; -0.01;	5800;occ;	106;	0;	14889
18;	192.6;	04-JAN-2005	05:25:25;	Dark	; 50.5;	20;	Bet Cru	; 1.25;	30000;occ;	101;	0;	14889
19;	414.3;	04-JAN-2005	05:29:07;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	14889
20;	563.2;	04-JAN-2005	05:31:36;	Dark	; 46.5;	29;	Bet Car	; 1.67;	10200;occ;	93;	0;	14889
21;	655.5;	04-JAN-2005	05:33:08;	Dark	; 40.5;	71;	Iot Car	; 2.25;	7700;occ;	81;	0;	14889
22;	745.7;	04-JAN-2005	05:34:38;	Dark	; 53.0;	41;	Eps Car	; 1.86;	4100;occ;	106;	0;	14889
23;	878.7;	04-JAN-2005	05:36:51;	Dark	; 53.5;	65;	Lam Vel	; 2.20;	4400;occ;	107;	0;	14889
24;	989.5;	04-JAN-2005	05:38:42;	Dark	; 49.5;	2;	Alp Car	; -0.74;	7000;occ;	99;	0;	14889
25;	1188.7;	04-JAN-2005	05:42:01;	Dark	; 49.0;	117;	Pi Pup	; 2.71;	3800;occ;	98;	0;	14889
26;	1351.5;	04-JAN-2005	05:44:44;	Dark	; 46.0;	23;	21Eps CMa	; 1.50;	26000;occ;	92;	0;	14889
27;	1442.9;	04-JAN-2005	05:46:16;	Dark	; 45.5;	179;	24Omi2CMa	; 3.03;	24000;occ;	91;	0;	14889
28;	1586.0;	04-JAN-2005	05:48:39;	Dark	; 57.0;	1;	9Alp CMa	; -1.44;	11000;occ;	114;	0;	14889
29;	1774.8;	04-JAN-2005	05:51:47;	Dark	; 45.0;	7;	19Bet Ori	; 0.10;	14000;occ;	90;	0;	14889
30;	1883.8;	04-JAN-2005	05:53:36;	Dark	; 43.5;	30;	46Eps Ori	; 1.69;	30000;occ;	87;	0;	14889
31;	2065.2;	04-JAN-2005	05:56:38;	Dark	; 65.0;	8;	10Alp CMi	; 0.40;	6500;occ;	130;	0;	14889
32;	2212.5;	04-JAN-2005	05:59:05;	Dark	; 50.5;	44;	24Gam Gem	; 1.93;	11000;occ;	101;	0;	14889
33;	2311.4;	04-JAN-2005	06:00:44;	Bright;	49.0;	151;	13Mu Gem	; 2.89;	3000;occ;	98;	0;	14889
34;	2473.4;	04-JAN-2005	06:03:26;	Bright;	39.5;	114;	3Iot Aur	; 2.69;	4600;occ;	79;	0;	14889
35;	2554.8;	04-JAN-2005	06:04:47;	Bright;	38.5;	107;	37The Aur	; 2.65;	11000;occ;	77;	0;	14889
36;	2687.7;	04-JAN-2005	06:07:00;	Bright;	44.5;	6;	13Alp Aur	; 0.08;	3400;occ;	89;	0;	14889
37;	2814.3;	04-JAN-2005	06:09:07;	Bright;	37.5;	35;	33Alp Per	; 1.79;	6250;occ;	75;	0;	14889
38;	2892.7;	04-JAN-2005	06:10:25;	Bright;	38.5;	160;	23Gam Per	; 2.93;	4700;occ;	77;	0;	14889
39;	3421.1;	04-JAN-2005	06:19:14;	Bright;	38.5;	49;	1Alp UMi	; 1.99;	6300;occ;	77;	0;	14889
40;	3561.6;	04-JAN-2005	06:21:34;	Bright;	45.5;	36;	50Alp UMA	; 1.80;	6300;occ;	91;	0;	14889

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1;	-2353.1;	04-JAN-2005	06:23:35;	Bright;	38.0;	60;	7Bet UMi	; 2.08;	3950;occ;	76;	0;	14889
2;	-2232.4;	04-JAN-2005	06:25:36;	Bright;	54.5;	87;	64Gam UMA	; 2.43;	11000;occ;	109;	0;	14889
3;	-2083.3;	04-JAN-2005	06:28:05;	Bright;	48.5;	55;	79Zet UMA	; 2.06;	10200;occ;	97;	0;	14889
4;	-1939.7;	04-JAN-2005	06:30:29;	Bright;	48.0;	39;	85Eta UMA	; 1.85;	24000;occ;	96;	0;	14889
5;	-1705.0;	04-JAN-2005	06:34:24;	Bright;	67.0;	152;	12Alp2CVn	; 2.89;	11000;occ;	134;	0;	14889
6;	-1452.2;	04-JAN-2005	06:38:36;	Bright;	45.5;	83;		; 2.38;	11000;occ;	91;	0;	14889
7;	-1243.1;	04-JAN-2005	06:42:05;	Bright;	58.5;	3;	16Alp Boo	; -0.05;	4250;occ;	117;	0;	14889
8;	-1132.3;	04-JAN-2005	06:43:56;	Bright;	40.5;	102;	24Alp Ser	; 2.60;	4250;occ;	81;	0;	14889
9;	-995.8;	04-JAN-2005	06:46:13;	Bright;	38.0;	120;	1Del Oph	; 2.73;	3200;occ;	76;	0;	14889
10;	-819.9;	04-JAN-2005	06:49:09;	Bright;	42.5;	104;	27Bet Lib	; 2.61;	13100;occ;	85;	0;	14889
11;	-652.2;	04-JAN-2005	06:51:56;	Dark	; 46.5;	122;	9Alp2Lib	; 2.75;	9700;occ;	93;	0;	14889
12;	-403.2;	04-JAN-2005	06:56:05;	Dark	; 76.0;	15;	67Alp Vir	; 0.98;	28000;occ;	152;	0;	14889
13;	-258.8;	04-JAN-2005	06:58:30;	Dark	; 39.5;	109;	Bet Lup	; 2.68;	26000;occ;	79;	0;	14889
14;	-170.0;	04-JAN-2005	06:59:59;	Dark	; 42.5;	78;	Alp Lup	; 2.30;	28000;occ;	85;	0;	14889
15;	-72.3;	04-JAN-2005	07:01:36;	Dark	; 42.5;	95;	Zet Cen	; 2.55;	26000;occ;	85;	0;	14889
16;	14.4;	04-JAN-2005	07:03:03;	Dark	; 53.0;	4;	Alp1Cen	; -0.01;	5800;occ;	106;	0;	14890
17;	146.9;	04-JAN-2005	07:05:15;	Dark	; 46.0;	64;	Gam Cen	; 2.20;	10600;occ;	92;	0;	14890
18;	254.2;	04-JAN-2005	07:07:03;	Dark	; 41.0;	12;	Alp1Cru	; 0.77;	30000;occ;	82;	0;	14890
19;	414.6;	04-JAN-2005	07:09:43;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	14890
20;	564.0;	04-JAN-2005	07:12:12;	Dark	; 41.5;	29;	Bet Car	; 1.67;	10200;occ;	83;	0;	14890
21;	656.2;	04-JAN-2005	07:13:45;	Dark	; 42.0;	71;	Iot Car	; 2.25;	7700;occ;	84;	0;	14890
22;	746.2;	04-JAN-2005	07:15:15;	Dark	; 53.0;	41;	Eps Car	; 1.86;	4100;occ;	106;	0;	14890
23;	879.8;	04-JAN-2005	07:17:28;	Dark	; 58.5;	65;	Lam Vel	; 2.20;	4400;occ;	117;	0;	14890
24;	990.1;	04-JAN-2005	07:19:19;	Dark	; 44.0;	2;	Alp Car	; -0.74;	7000;occ;	88;	0;	14890
25;	1071.3;	04-JAN-2005	07:20:40;	Dark	; 47.5;	70;	Zet Pup	; 2.25;	39000;occ;	95;	0;	14890
26;	1189.3;	04-JAN-2005	07:22:38;	Dark	; 45.0;	117;	Pi Pup	; 2.71;	3800;occ;	90;	0;	14890


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27; 1353.2; 04-JAN-2005 07:25:22; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0;14890
28; 1443.5; 04-JAN-2005 07:26:52; Dark ; 41.0; 179; 240mi2CMa ; 3.03; 24000;occ; 82; 0;14890
29; 1587.0; 04-JAN-2005 07:29:16; Dark ; 42.5; 1; 9Alp CMa ; -1.44; 11000;occ; 85; 0;14890
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1; -4448.9; 04-JAN-2005 07:29:16; Dark ; 50.5; 1; 9Alp CMa ; -1.44; 11000;occ; 101; 0;14890
2; -4260.4; 04-JAN-2005 07:32:24; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;14890
3; -4151.8; 04-JAN-2005 07:34:13; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;14890
4; -4005.8; 04-JAN-2005 07:36:39; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;14890
5; -3822.8; 04-JAN-2005 07:39:42; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;14890
6; -3723.3; 04-JAN-2005 07:41:21; Bright; 50.0; 151; 13Mu Gem ; 2.89; 3000;occ; 100; 0;14890
7; -3562.1; 04-JAN-2005 07:44:02; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;14890
8; -3481.0; 04-JAN-2005 07:45:23; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;14890
9; -3347.5; 04-JAN-2005 07:47:37; Bright; 43.0; 6; 13Alp Aur ; 0.08; 3400;occ; 86; 0;14890
10; -3221.2; 04-JAN-2005 07:49:43; Bright; 38.5; 35; 33Alp Per ; 1.79; 6250;occ; 77; 0;14890
11; -3142.6; 04-JAN-2005 07:51:02; Bright; 38.0; 160; 23Gam Per ; 2.93; 4700;occ; 76; 0;14890
12; -2614.2; 04-JAN-2005 07:59:50; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;14890
13; -2475.2; 04-JAN-2005 08:02:09; Bright; 51.0; 36; 50Alp UMa ; 1.80; 6300;occ; 102; 0;14890
14; -2352.5; 04-JAN-2005 08:04:12; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;14890
15; -2233.4; 04-JAN-2005 08:06:11; Bright; 56.0; 87; 64Gam UMa ; 2.43; 11000;occ; 112; 0;14890
16; -2114.7; 04-JAN-2005 08:08:10; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;14890
17; -1981.4; 04-JAN-2005 08:10:23; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;14890
18; -1682.8; 04-JAN-2005 08:15:22; Bright; 45.0; 180; 27Gam Boo ; 3.04; 8000;occ; 90; 0;14890
19; -1452.0; 04-JAN-2005 08:19:12; Bright; 64.0; 83; ; 2.38; 11000;occ; 128; 0;14890
20; -1323.4; 04-JAN-2005 08:21:21; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;14890
21; -1181.1; 04-JAN-2005 08:23:43; Bright; 59.5; 111; 8Eta Boo ; 2.68; 6000;occ; 119; 0;14890
22; -994.8; 04-JAN-2005 08:26:50; Bright; 38.0; 120; 1Del Oph ; 2.73; 3200;occ; 76; 0;14890
23; -818.4; 04-JAN-2005 08:29:46; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;14890
24; -651.6; 04-JAN-2005 08:32:33; Dark ; 47.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 95; 0;14890
25; -401.7; 04-JAN-2005 08:36:43; Dark ; 82.0; 15; 67Alp Vir ; 0.98; 28000;occ; 164; 0;14890
26; -258.1; 04-JAN-2005 08:39:06; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;14890
27; -168.8; 04-JAN-2005 08:40:36; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;14890
28; -71.4; 04-JAN-2005 08:42:13; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;14890
29; 15.0; 04-JAN-2005 08:43:39; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;14891
30; 147.7; 04-JAN-2005 08:45:52; Dark ; 48.0; 64; Gam Cen ; 2.20; 10600;occ; 96; 0;14891
31; 254.9; 04-JAN-2005 08:47:39; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;14891
32; 414.8; 04-JAN-2005 08:50:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14891
33; 564.5; 04-JAN-2005 08:52:49; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;14891
34; 656.6; 04-JAN-2005 08:54:21; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;14891
35; 746.9; 04-JAN-2005 08:55:51; Dark ; 54.5; 41; Eps Car ; 1.86; 4100;occ; 109; 0;14891
36; 880.7; 04-JAN-2005 08:58:05; Dark ; 55.5; 65; Lam Vel ; 2.20; 4400;occ; 111; 0;14891
37; 990.6; 04-JAN-2005 08:59:55; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;14891
38; 1072.0; 04-JAN-2005 09:01:16; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;14891
39; 1189.6; 04-JAN-2005 09:03:14; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;14891
40; 1353.5; 04-JAN-2005 09:05:58; Dark ; 44.0; 23; 21Eps CMa ; 1.50; 26000;occ; 88; 0;14891
41; 1443.7; 04-JAN-2005 09:07:28; Dark ; 46.0; 179; 240mi2CMa ; 3.03; 24000;occ; 92; 0;14891
42; 1587.1; 04-JAN-2005 09:09:52; Dark ; 48.0; 1; 9Alp CMa ; -1.44; 11000;occ; 96; 0;14891
43; 1775.7; 04-JAN-2005 09:13:00; Dark ; 5.0; 7; 19Bet Ori ; 0.10; 14000;occ; 10; 0;14891
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3; -4005.8; 04-JAN-2005 09:17:14; Dark ; 49.5; 14; 58Alp Ori ; 0.87; 3000;occ; 99; 0;14891
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34;	4316.3;	08-JAN-2005	22:54:17;	Bright;	;	74.5;	152;	12Alp2CVn	;	2.89;	11000;occ;	149;	0;	14956
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13; 1222.6; 12-JAN-2005 01:29:40; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;15001
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25; 2799.9; 12-JAN-2005 01:55:58; Bright; 52.5; 175; 39Del Per ; 3.01; 19400;occ; 105; 0;15001

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5;	-1683.0;	12-JAN-2005	02:21:51;	Bright;	49.5;	180;	27Gam Boo	; 3.04;	8000;occ;	99;	0;	15001
6;	-1424.4;	12-JAN-2005	02:26:09;	Bright;	53.5;	83;		; 2.38;	11000;occ;	107;	0;	15001
7;	-1306.3;	12-JAN-2005	02:28:07;	Bright;	38.0;	59;	55Alp Oph	; 2.08;	8900;occ;	76;	0;	15001
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11;	-606.8;	12-JAN-2005	02:39:47;	Dark	; 50.0;	16;	21Alp Sco	; 1.02;	3000;occ;	100;	0;	15001
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13;	-180.6;	12-JAN-2005	02:46:53;	Dark	; 97.5;	15;	67Alp Vir	; 0.98;	28000;occ;	195;	0;	15001
14;	257.1;	12-JAN-2005	02:54:11;	Dark	; 46.5;	20;	Bet Cru	; 1.25;	30000;occ;	93;	0;	15002
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22;	1222.2;	12-JAN-2005	03:10:16;	Dark	; 48.5;	117;	Pi Pup	; 2.71;	3800;occ;	97;	0;	15002
23;	1376.3;	12-JAN-2005	03:12:50;	Dark	; 49.0;	23;	21Eps CMa	; 1.50;	26000;occ;	98;	0;	15002
24;	1464.5;	12-JAN-2005	03:14:18;	Dark	; 43.0;	179;	240mi2CMa	; 3.03;	24000;occ;	86;	0;	15002
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26;	1795.3;	12-JAN-2005	03:19:49;	Dark	; 43.0;	7;	19Bet Ori	; 0.10;	14000;occ;	86;	0;	15002
27;	1896.9;	12-JAN-2005	03:21:31;	Dark	; 43.0;	30;	46Eps Ori	; 1.69;	30000;occ;	86;	0;	15002
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29;	2190.6;	12-JAN-2005	03:26:24;	Dark	; 44.0;	44;	24Gam Gem	; 1.93;	11000;occ;	88;	0;	15002
30;	2292.6;	12-JAN-2005	03:28:06;	Bright;	44.5;	151;	13Mu Gem	; 2.89;	3000;occ;	89;	0;	15002
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32;	2487.8;	12-JAN-2005	03:31:21;	Bright;	40.5;	114;	3Iot Aur	; 2.69;	4600;occ;	81;	0;	15002
33;	2672.5;	12-JAN-2005	03:34:26;	Bright;	37.5;	42;	34Bet Aur	; 1.90;	10200;occ;	75;	0;	15002
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4;	-1783.9;	12-JAN-2005	05:41:22;	Bright;	36.5;	5;	3Alp Lyr	; 0.03;	11000;occ;	73;	0;	15003
5;	-1683.2;	12-JAN-2005	05:43:02;	Bright;	49.0;	180;	27Gam Boo	; 3.04;	8000;occ;	98;	0;	15003
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7;	-1304.1;	12-JAN-2005	05:49:22;	Bright;	36.5;	59;	55Alp Oph	; 2.08;	8900;occ;	73;	0;	15003
8;	-1086.0;	12-JAN-2005	05:53:00;	Dark	; 80.0;	111;	8Eta Boo	; 2.68;	6000;occ;	160;	0;	15003
9;	-872.5;	12-JAN-2005	05:56:33;	Bright;	53.0;	98;	13Zet Oph	; 2.57;	30000;occ;	106;	0;	15003
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11;	-606.2;	12-JAN-2005	06:00:59;	Dark	; 45.0;	16;	21Alp Sco	; 1.02;	3000;occ;	90;	0;	15003
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16;	512.9;	12-JAN-2005	06:19:39;	Dark	; 41.0;	124;	The Car	; 2.76;	30000;occ;	82;	0;	15004
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21; 2291.4; 12-JAN-2005 23:35:16; Bright; 45.0; 151; 13Mu Gem ; 2.89; 3000;occ; 90; 0;15014
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24; 2671.4; 12-JAN-2005 23:41:36; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;15014
25; 2804.7; 12-JAN-2005 23:43:50; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;15014
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 27; 369.4; 12-JAN-2005 14:40:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;15009
 28; 515.2; 12-JAN-2005 14:42:40; Dark ; 41.0; 124; The Car ; 2.76; 30000;occ; 82; 0;15009
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4;	-3851.5;	22-JAN-2005	13:15:33;	Dark	;	43.5;	44;	24Gam Gem	;	1.93;	11000;occ;	87;	0;	15151
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7;	-3494.9;	22-JAN-2005	13:21:30;	Bright;	;	39.0;	107;	37The Aur	;	2.65;	11000;occ;	78;	0;	15151
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23;	-361.7;	22-JAN-2005	14:13:43;	Dark	;	41.5;	40;	The Sco	;	1.86;	7100;occ;	83;	0;	15151
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27;	307.7;	22-JAN-2005	14:24:52;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	15152
28;	396.7;	22-JAN-2005	14:26:21;	Dark	;	43.0;	12;	Alp1Cru	;	0.77;	30000;occ;	86;	0;	15152
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31;	772.4;	22-JAN-2005	14:32:37;	Dark	;	45.0;	71;	Iot Car	;	2.25;	7700;occ;	90;	0;	15152
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33;	1038.6;	22-JAN-2005	14:37:03;	Dark	;	45.5;	2;	Alp Car	;	-0.74;	7000;occ;	91;	0;	15152
34;	1168.6;	22-JAN-2005	14:39:13;	Dark	;	43.5;	70;	Zet Pup	;	2.25;	39000;occ;	87;	0;	15152
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7;	-3612.0;	22-JAN-2005	15:00:09;	Bright;	;	39.0;	28;	12Bet Tau	;	1.65;	15200;occ;	78;	0;	15152
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