GOMOS Daily Report 02-JAN-2005

Level 0 and Level 1 products

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Level 2 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	04JAN2005 05:01:47

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (02JAN2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (03JAN2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

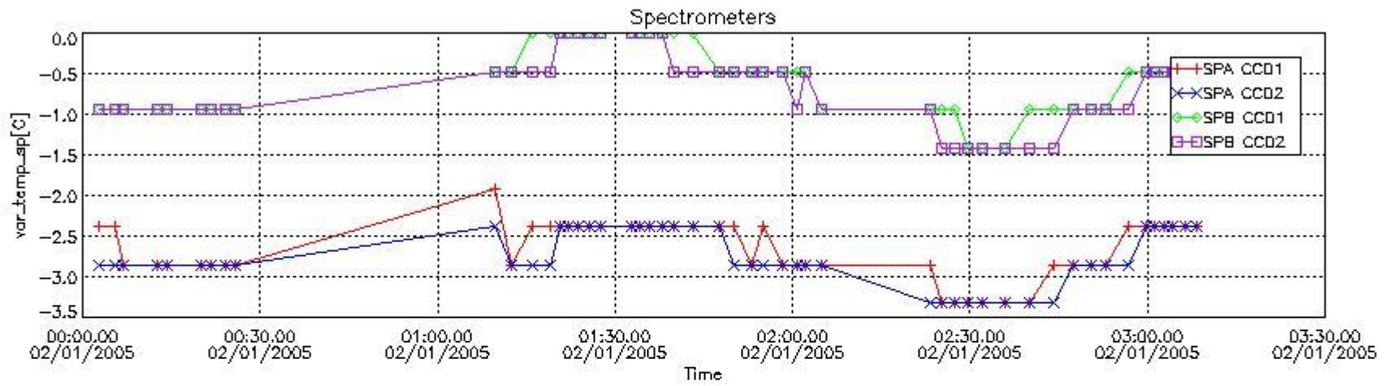
2.1 Level 0 products arrived in PCF (see template here)

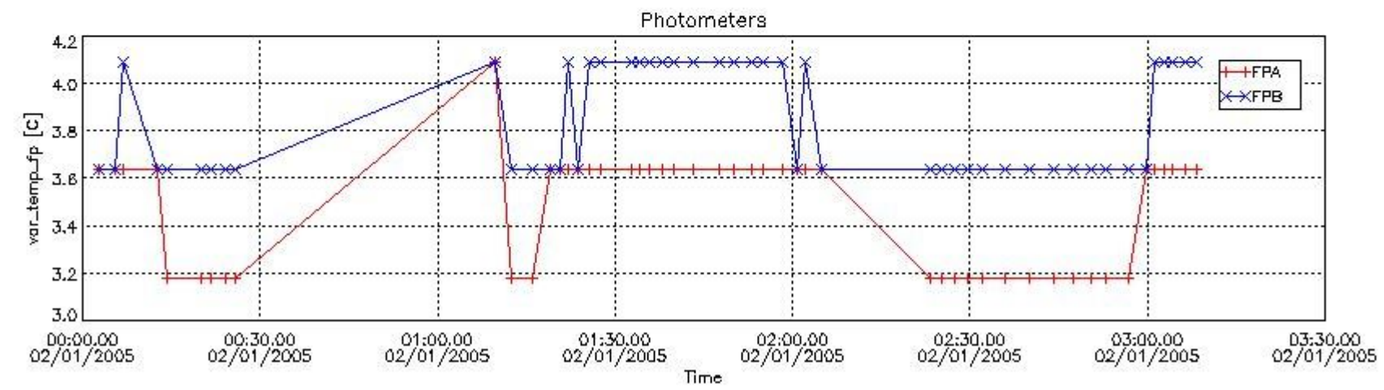
2.2 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20050102_000238_000000512033_00274_14857_0014.N1	02-JAN-2005 00:02:38	Dark	50.500	117	Pi Pup	2.7060	3800.0	101	14857	No
2	GOM_TRA_1PNPDE20050102_000527_000000502033_00274_14857_0015.N1	02-JAN-2005 00:05:27	Dark	50.000	23	21Eps CMa	1.5020	26000.	100	14857	No
3	GOM_TRA_1PNPDE20050102_000659_000000472033_00274_14857_0016.N1	02-JAN-2005 00:06:59	Twilight	47.000	179	24Omi2CMa	3.0320	24000.	94	14857	No
4	GOM_TRA_1PNPDE20050102_001234_000000482033_00274_14857_0018.N1	02-JAN-2005 00:12:34	Bright	48.000	7	19Bet Ori	0.10000	14000.	96	14857	No
5	GOM_TRA_1PNPDE20050102_001423_000000452033_00274_14857_0019.N1	02-JAN-2005 00:14:23	Bright	45.000	30	46Eps Ori	1.6940	30000.	90	14857	No
6	GOM_TRA_1PNPDE20050102_002005_000000522033_00274_14857_0021.N1	02-JAN-2005 00:20:05	Bright	51.500	44	24Gam Gem	1.9280	11000.	103	14857	No
7	GOM_TRA_1PNPDE20050102_002143_000000482033_00274_14857_0022.N1	02-JAN-2005 00:21:43	Bright	48.000	151	13Mu Gem	2.8900	3000.0	96	14857	No
8	GOM_TRA_1PNPDE20050102_002414_000000402033_00274_14857_0023.N1	02-JAN-2005 00:24:14	Bright	39.500	114	3Iot Aur	2.6930	4600.0	79	14857	No
9	GOM_TRA_1PNPDE20050102_002544_000000402033_00274_14857_0024.N1	02-JAN-2005 00:25:44	Bright	40.000	107	37The Aur	2.6490	11000.	80	14857	No
10	GOM_TRA_1PNPDE20050102_010945_000000562033_00274_14857_0000.N1	02-JAN-2005 01:09:45	Twilight	56.000	104	27Bet Lib	2.6140	13100.	112	14857	Yes
11	GOM_TRA_1PNPDE20050102_011223_000000502033_00274_14857_0001.N1	02-JAN-2005 01:12:23	Twilight	50.000	122	9Alp2Lib	2.7470	9700.0	100	14857	No
12	GOM_TRA_1PNPDE20050102_011607_000000722033_00274_14857_0002.N1	02-JAN-2005 01:16:07	Dark	71.500	15	67Alp Vir	0.97600	28000.	143	14857	No
13	GOM_TRA_1PNPDE20050102_011904_000000422033_00274_14857_0003.N1	02-JAN-2005 01:19:04	Twilight	42.000	109	Bet Lup	2.6770	26000.	84	14857	No
14	GOM_TRA_1PNPDE20050102_012034_000000432033_00274_14857_0004.N1	02-JAN-2005 01:20:34	Dark	42.500	78	Alp Lup	2.3040	28000.	85	14857	No
15	GOM_TRA_1PNPDE20050102_012205_000000422033_00274_14857_0005.N1	02-JAN-2005 01:22:05	Dark	42.000	95	Zet Cen	2.5450	26000.	84	14857	No
16	GOM_TRA_1PNPDE20050102_012342_000000472033_00275_14858_0006.N1	02-JAN-2005 01:23:42	Dark	46.500	4	Alp1Cen	-0.010000	5800.0	93	14858	No
17	GOM_TRA_1PNPDE20050102_012538_000000472033_00275_14858_0007.N1	02-JAN-2005 01:25:38	Dark	47.000	64	Gam Cen	2.2000	10600.	94	14858	No
18	GOM_TRA_1PNPDE20050102_012736_000000442033_00275_14858_0008.N1	02-JAN-2005 01:27:36	Dark	43.500	12	Alp1Cru	0.77500	30000.	87	14858	No
19	GOM_TRA_1PNPDE20050102_013251_000000402033_00275_14858_0009.N1	02-JAN-2005 01:32:51	Dark	40.000	29	Bet Car	1.6720	10200.	80	14858	No
20	GOM_TRA_1PNPDE20050102_013416_000000452033_00275_14858_0010.N1	02-JAN-2005 01:34:16	Dark	45.000	71	Iot Car	2.2460	7700.0	90	14858	No
21	GOM_TRA_1PNPDE20050102_013551_000000472033_00275_14858_0011.N1	02-JAN-2005 01:35:51	Dark	46.500	41	Eps Car	1.8600	4100.0	93	14858	No
22	GOM_TRA_1PNPDE20050102_013756_000000542033_00275_14858_0012.N1	02-JAN-2005 01:37:56	Dark	53.500	65	Lam Vel	2.2040	4400.0	107	14858	No
23	GOM_TRA_1PNPDE20050102_014000_000000432033_00275_14858_0013.N1	02-JAN-2005 01:40:00	Dark	42.500	2	Alp Car	-0.73600	7000.0	85	14858	No
24	GOM_TRA_1PNPDE20050102_014314_000000512033_00275_14858_0014.N1	02-JAN-2005 01:43:14	Dark	51.000	117	Pi Pup	2.7060	3800.0	102	14858	No
25	GOM_TRA_1PNPDE20050102_014735_000000482033_00275_14858_0016.N1	02-JAN-2005 01:47:35	Twilight	48.000	179	24Omi2CMa	3.0320	24000.	96	14858	No
26	GOM_TRA_1PNPDE20050102_015001_000000512033_00275_14858_0017.N1	02-JAN-2005 01:50:01	Twilight	51.000	1	9Alp CMa	-1.4400	11000.	102	14858	No
27	GOM_TRA_1PNPDE20050102_015310_000000512033_00275_14858_0018.N1	02-JAN-2005 01:53:10	Bright	51.000	7	19Bet Ori	0.10000	14000.	102	14858	No
28	GOM_TRA_1PNPDE20050102_015459_000000442033_00275_14858_0019.N1	02-JAN-2005 01:54:59	Bright	44.000	30	46Eps Ori	1.6940	30000.	88	14858	No
29	GOM_TRA_1PNPDE20050102_015821_000000702033_00275_14858_0020.N1	02-JAN-2005 01:58:21	Bright	69.500	8	10Alp CMi	0.40000	6500.0	139	14858	No
30	GOM_TRA_1PNPDE20050102_020041_000000502033_00275_14858_0021.N1	02-JAN-2005 02:00:41	Bright	49.500	44	24Gam Gem	1.9280	11000.	99	14858	No
31	GOM_TRA_1PNPDE20050102_020217_000000532033_00275_14858_0022.N1	02-JAN-2005 02:02:17	Bright	53.000	151	13Mu Gem	2.8900	3000.0	106	14858	No
32	GOM_TRA_1PNPDE20050102_020450_000000392033_00275_14858_0023.N1	02-JAN-2005 02:04:50	Bright	39.000	114	3Iot Aur	2.6930	4600.0	78	14858	No
33	GOM_TRA_1PNPDE20050102_022322_000000502033_00275_14858_0000.N1	02-JAN-2005 02:23:22	Bright	50.000	36	50Alp UMa	1.8000	6300.0	100	14858	No
34	GOM_TRA_1PNPDE20050102_022506_000000412033_00275_14858_0001.N1	02-JAN-2005 02:25:06	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	14858	No
35	GOM_TRA_1PNPDE20050102_022725_000000552033_00275_14858_0002.N1	02-JAN-2005 02:27:25	Bright	55.000	87	64Gam UMa	2.4330	11000.	110	14858	No
36	GOM_TRA_1PNPDE20050102_022942_000000482033_00275_14858_0003.N1	02-JAN-2005 02:29:42	Bright	47.500	55	79Zet UMa	2.0600	10200.	95	14858	No
37	GOM_TRA_1PNPDE20050102_023202_000000462033_00275_14858_0004.N1	02-JAN-2005 02:32:02	Bright	46.000	39	85Eta UMa	1.8540	24000.	92	14858	No
38	GOM_TRA_1PNPDE20050102_023556_000000632033_00275_14858_0005.N1	02-JAN-2005 02:35:56	Bright	63.000	152	12Alp2CVn	2.8900	11000.	126	14858	No
39	GOM_TRA_1PNPDE20050102_023956_000000452033_00275_14858_0006.N1	02-JAN-2005 02:39:56	Bright	45.000	83		2.3780	11000.	90	14858	No
40	GOM_TRA_1PNPDE20050102_024414_000000572033_00275_14858_0007.N1	02-JAN-2005 02:44:14	Bright	56.500	111	8Eta Boo	2.6800	6000.0	113	14858	No
41	GOM_TRA_1PNPDE20050102_024731_000000382033_00275_14858_0008.N1	02-JAN-2005 02:47:31	Twilight	37.500	120	1Del Oph	2.7340	3200.0	75	14858	No
42	GOM_TRA_1PNPDE20050102_025020_000000562033_00275_14858_0009.N1	02-JAN-2005 02:50:20	Twilight	56.000	104	27Bet Lib	2.6140	13100.	112	14858	No
43	GOM_TRA_1PNPDE20050102_025300_000000472033_00275_14858_0010.N1	02-JAN-2005 02:53:00	Twilight	46.500	122	9Alp2Lib	2.7470	9700.0	93	14858	No
44	GOM_TRA_1PNPDE20050102_025644_000000842033_00275_14858_0011.N1	02-JAN-2005 02:56:44	Dark	84.000	15	67Alp Vir	0.97600	28000.	168	14858	No
45	GOM_TRA_1PNPDE20050102_025941_000000402033_00275_14858_0012.N1	02-JAN-2005 02:59:41	Twilight	40.000	109	Bet Lup	2.6770	26000.	80	14858	No
46	GOM_TRA_1PNPDE20050102_030111_000000402033_00275_14858_0013.N1	02-JAN-2005 03:01:11	Dark	39.500	78	Alp Lup	2.3040	28000.	79	14858	No

47	GOM_TRA_1PNPDE20050102_030242_000000432033_00275_14858_0014.N1	02-JAN-2005 03:02:42	Dark	43.000	95	Zet Cen	2.5450	26000.	86	14858	No
48	GOM_TRA_1PNPDE20050102_030419_000000442033_00276_14859_0015.N1	02-JAN-2005 03:04:19	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	14859	No
49	GOM_TRA_1PNPDE20050102_030616_000000462033_00276_14859_0016.N1	02-JAN-2005 03:06:16	Dark	45.500	64	Gam Cen	2.2000	10600.	91	14859	No
50	GOM_TRA_1PNPDE20050102_030813_000000422033_00276_14859_0017.N1	02-JAN-2005 03:08:13	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	14859	No

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



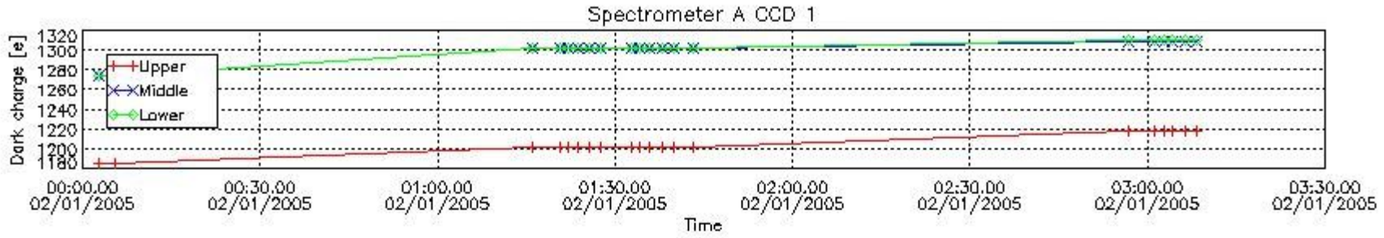


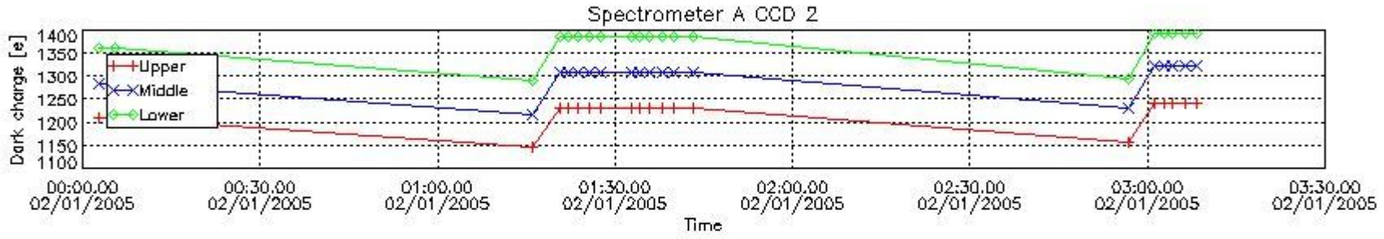
4. Overview of dark signal processing per product

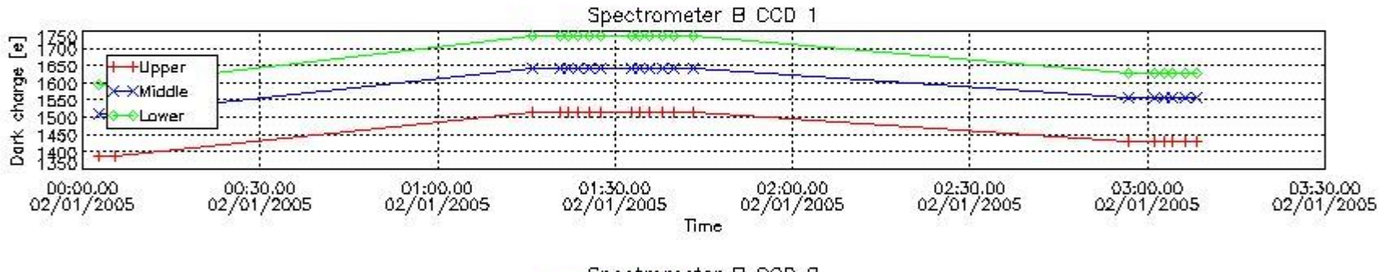
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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.

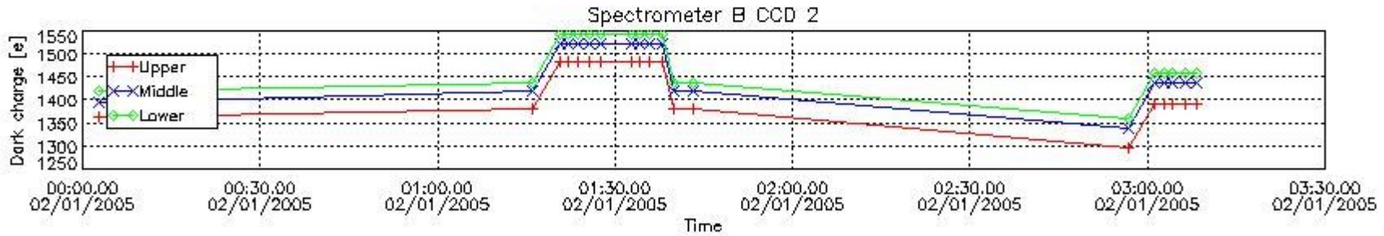
4.1 All products used the DSA observation for the DC computation

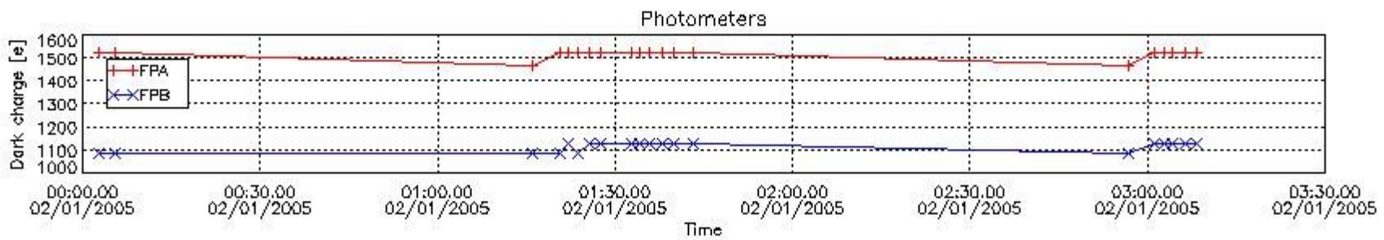
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











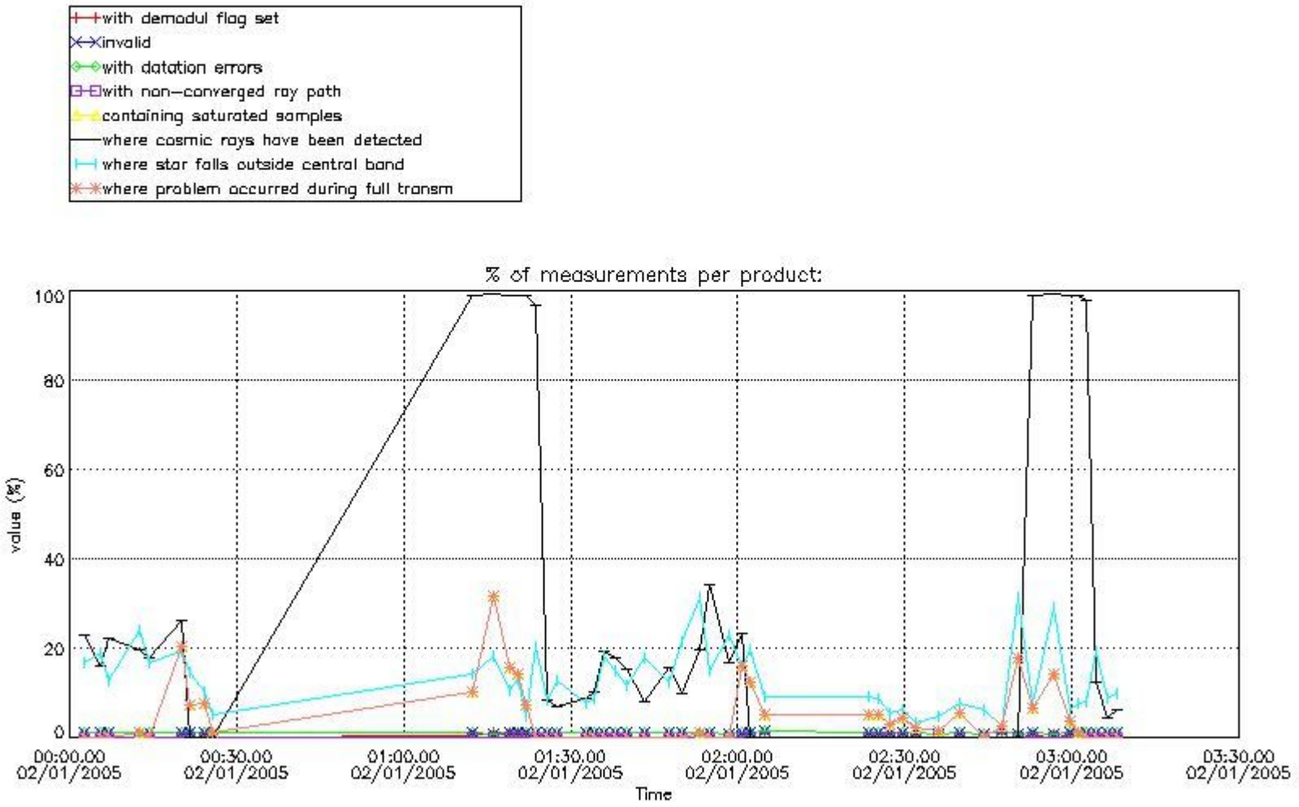
5. Demodulation flag and quality information monitoring

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.

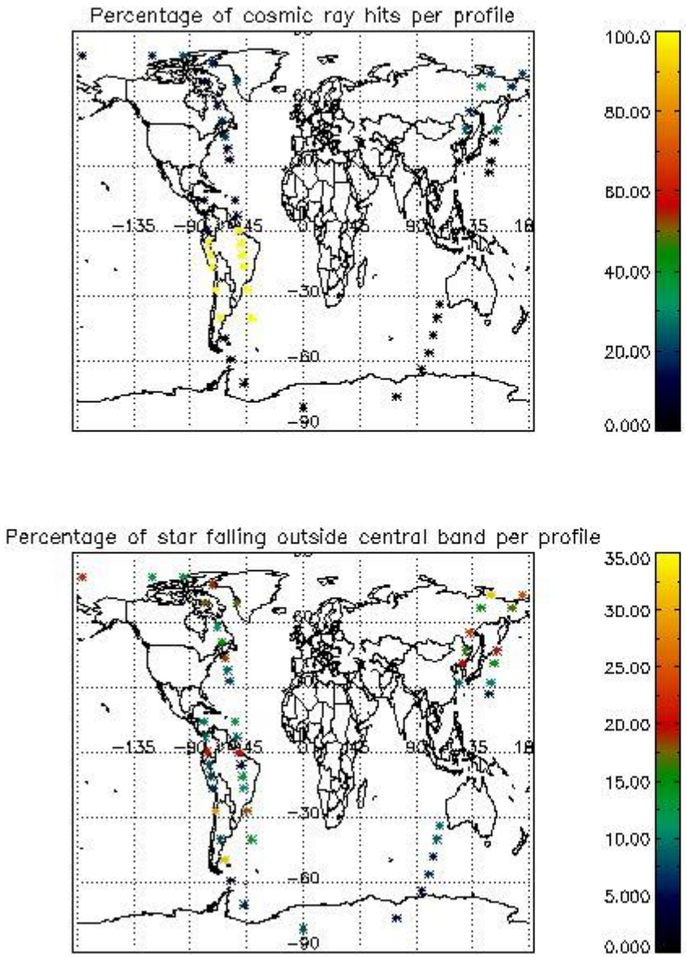
5.1 Percentage of products during reporting period with:

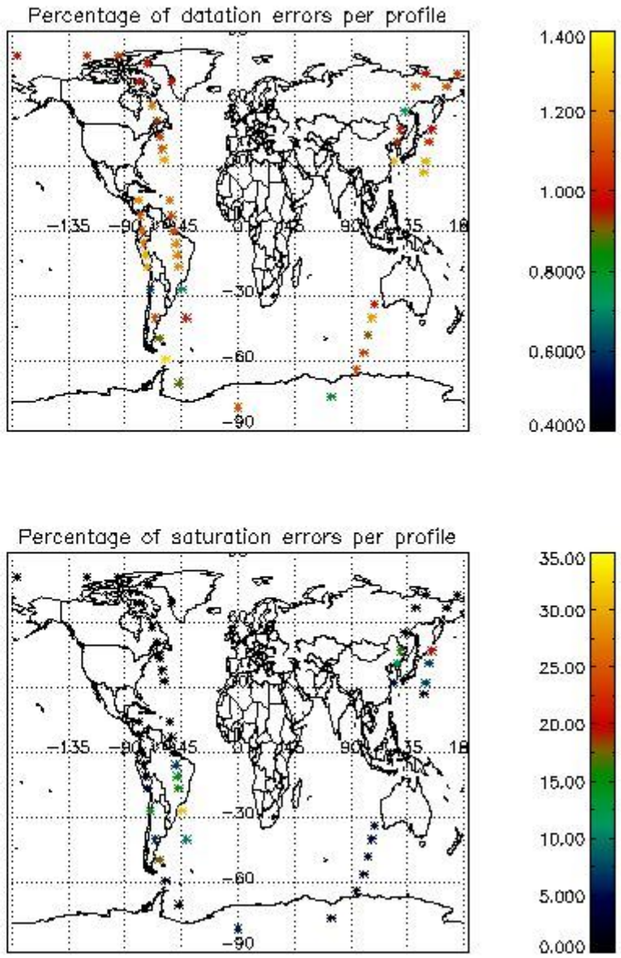
At least one measurement with demodulation flag set:	22.4490 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





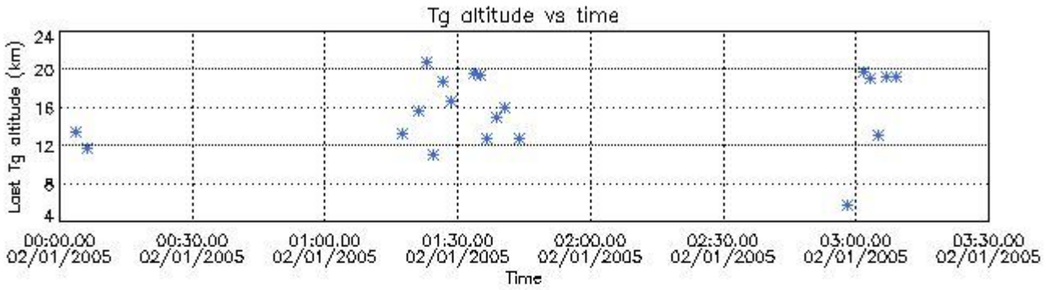
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

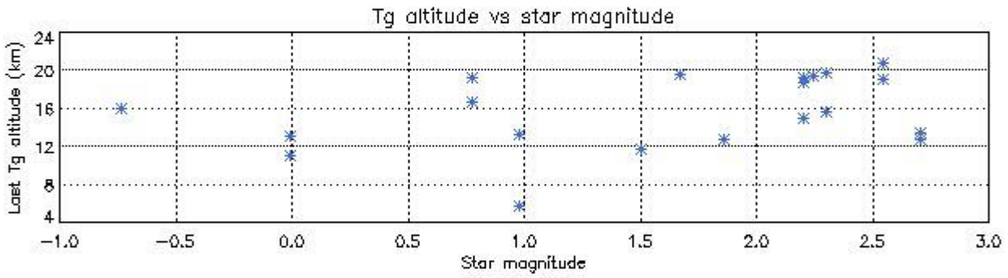
6.1 Statistics on tangent altitude lost:

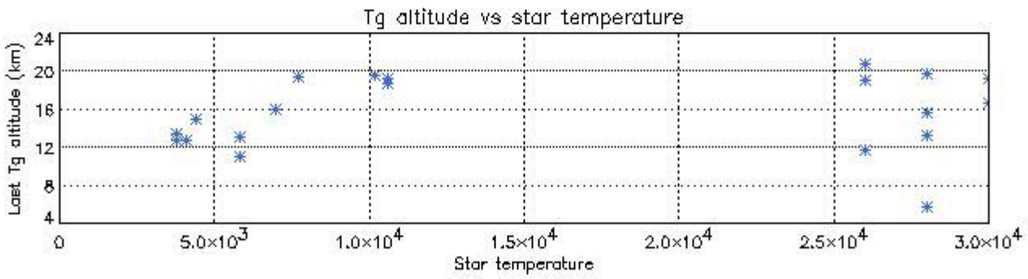
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.623	16.240	15.317
St. deviation:	3.9123	5.0839	5.1051
Maximum:	20.795	22.732	22.253
Minimum:	5.6742	6.2851	5.3374
Number of data:	20.000	20.000	9.0000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

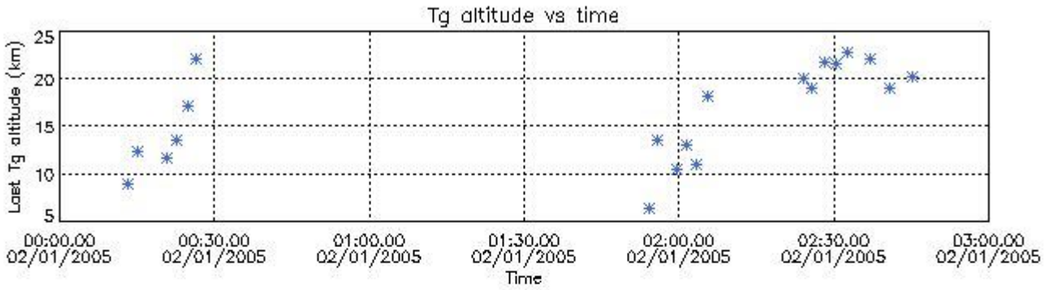


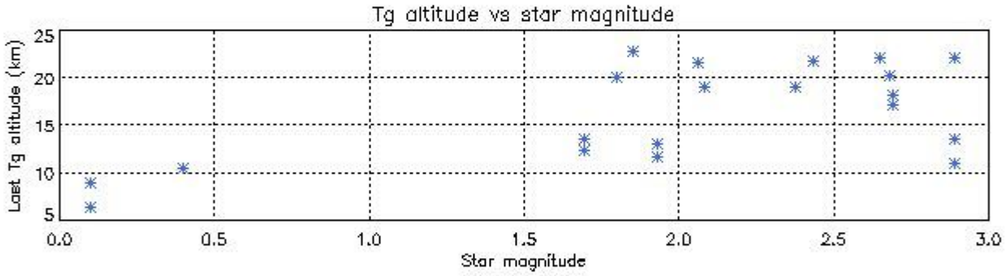


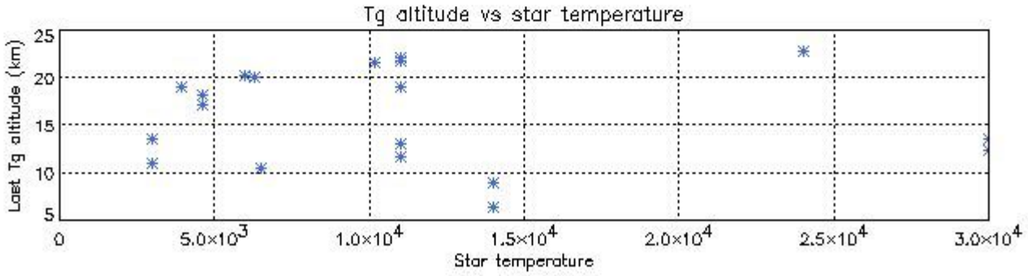


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

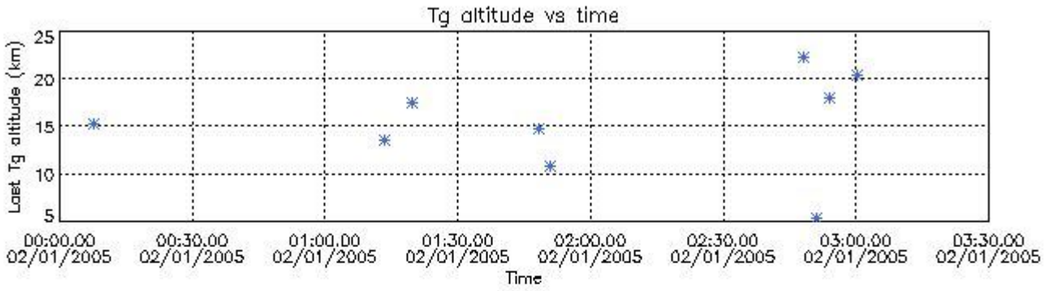


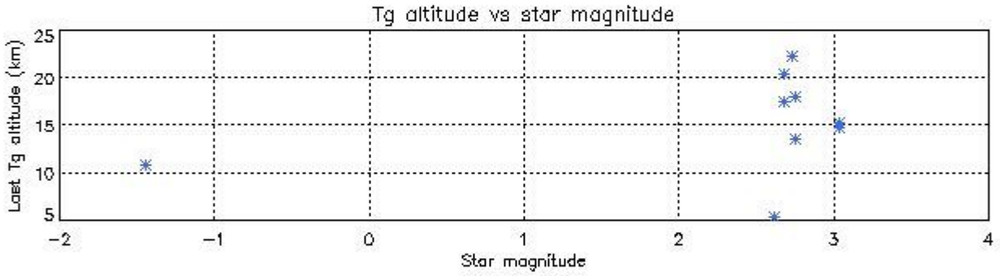


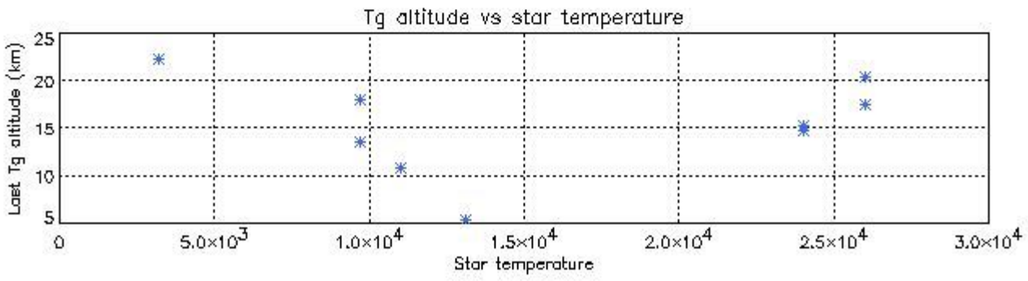


6.3 Plot for TWILIGHT limb products

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

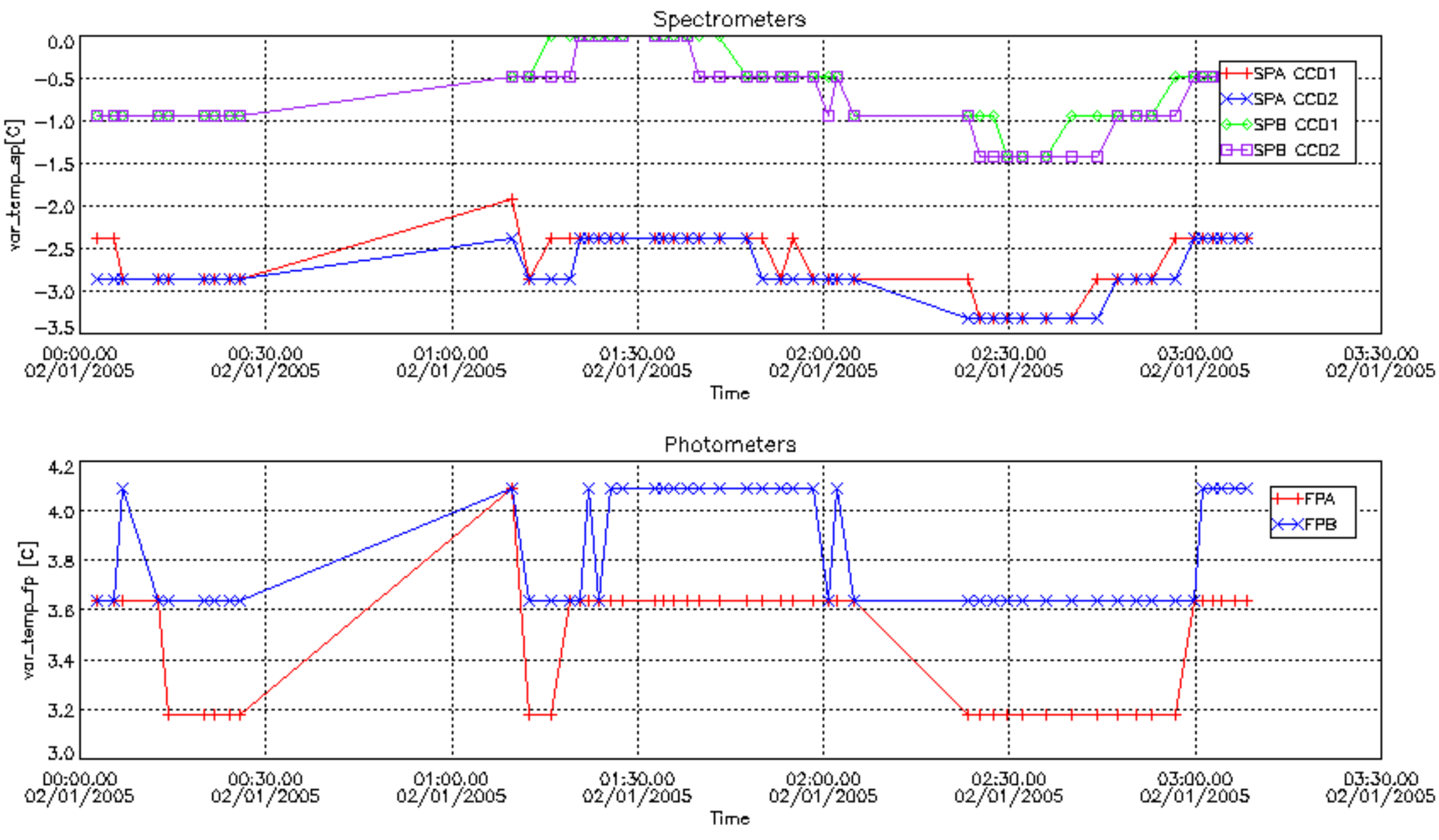
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.
Statistics above 105 km are computed for every occultation, giving four values per occultation: 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	1447.4	1462.6	1448.1
St. deviation:	4.6754	7.0899	5.7702	8.0127
Maximum:	1715.0	1687.0	1509.0	1520.0
Minimum:	1453.0	1419.0	1435.0	1419.0
Number of data:	25300.	25300.	24100.	24100.

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	02-JAN-2005 00:02:38
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041217_142407_20041216_000000_20100101_000000	1	02-JAN-2005 00:02:38
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	02-JAN-2005 00:02:38
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-JAN-2005 00:02:38
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	02-JAN-2005 00:02:38
ECMWF_FILE	AUX_ECF_AXNECM20050101_060855_20050101_210000_20050102_090000	1	02-JAN-2005 00:02:38
OPTIONAL_ECMWF_FILE	NOT USED	1	02-JAN-2005 00:02:38
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050101_233843_20050101_184116_20050111_200727	1	02-JAN-2005 00:02:38


Spectrometers
var_temp_sp[C]
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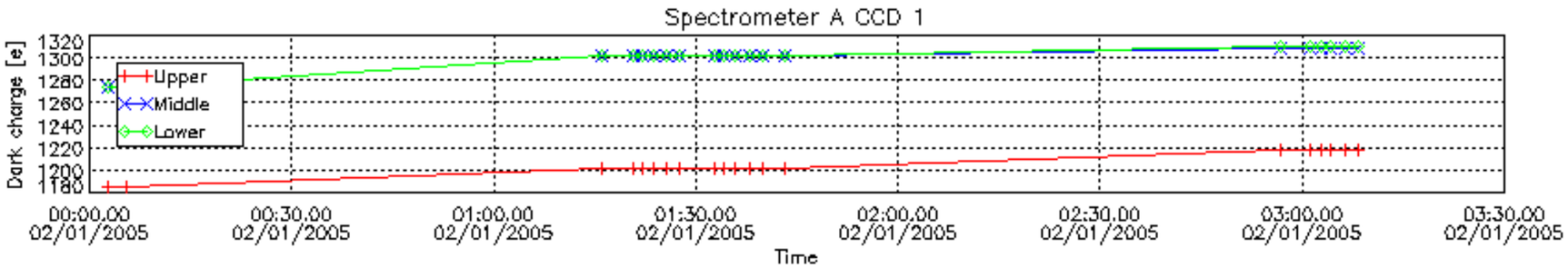
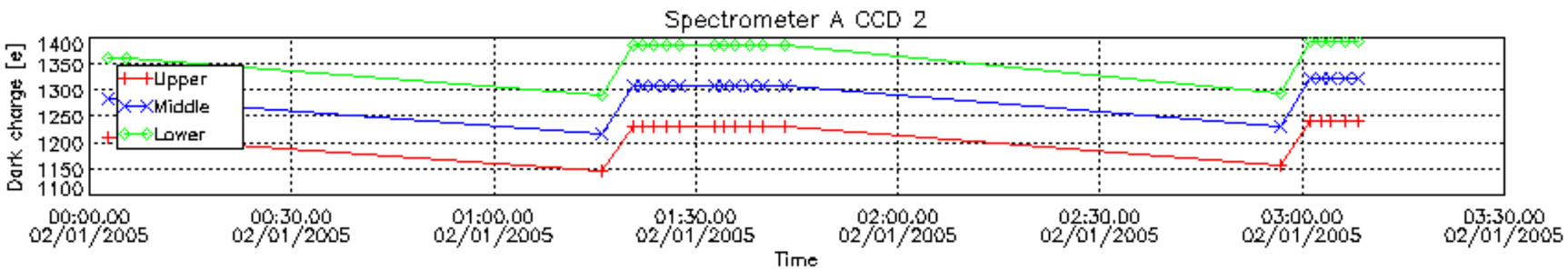
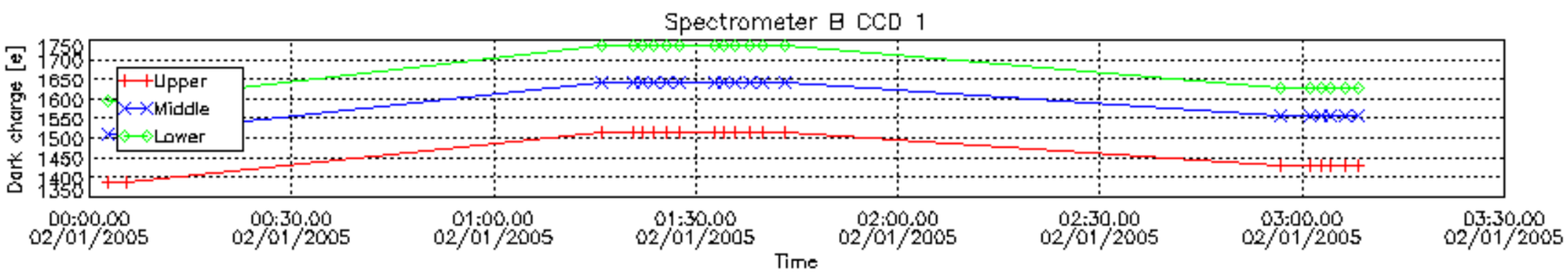
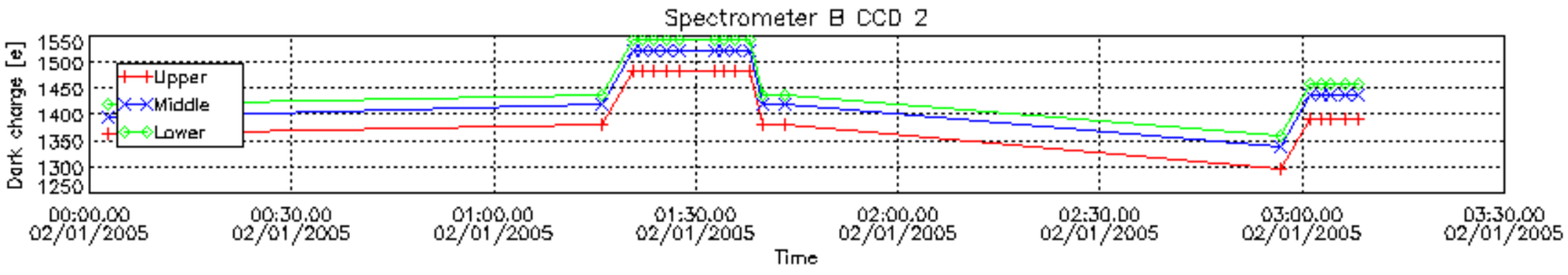
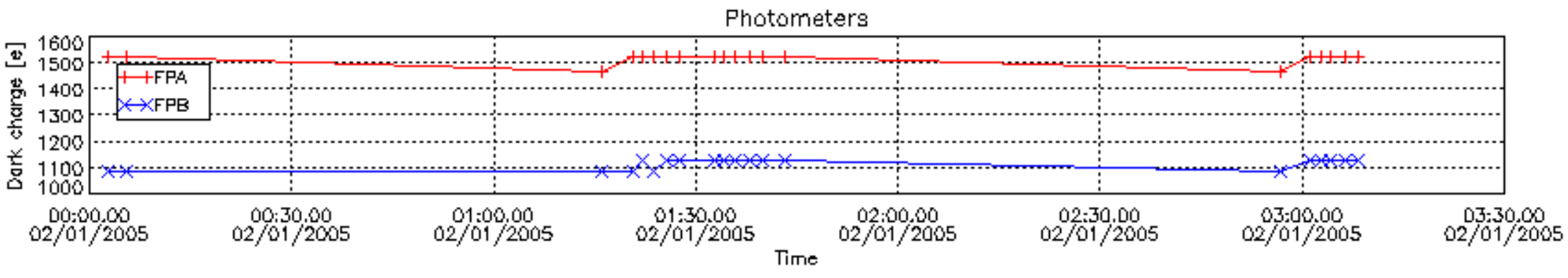
−0.5
−1.0
−1.5
−2.0
−2.5
−3.0
−3.5
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00 02/01/2005
00:30.00 02/01/2005
01:00.00 02/01/2005
01:30.00 02/01/2005
02:00.00 02/01/2005
02:30.00 02/01/2005
03:00.00 02/01/2005
03:30.00 02/01/2005
Time
Photometers
var_temp_fp [C]
4.2
4.0
3.8
3.6
3.4
3.2
3.0
FPA
FPB
00:00.00 02/01/2005
00:30.00 02/01/2005
01:00.00 02/01/2005
01:30.00 02/01/2005
02:00.00 02/01/2005
02:30.00 02/01/2005
03:00.00 02/01/2005
03:30.00 02/01/2005
Time

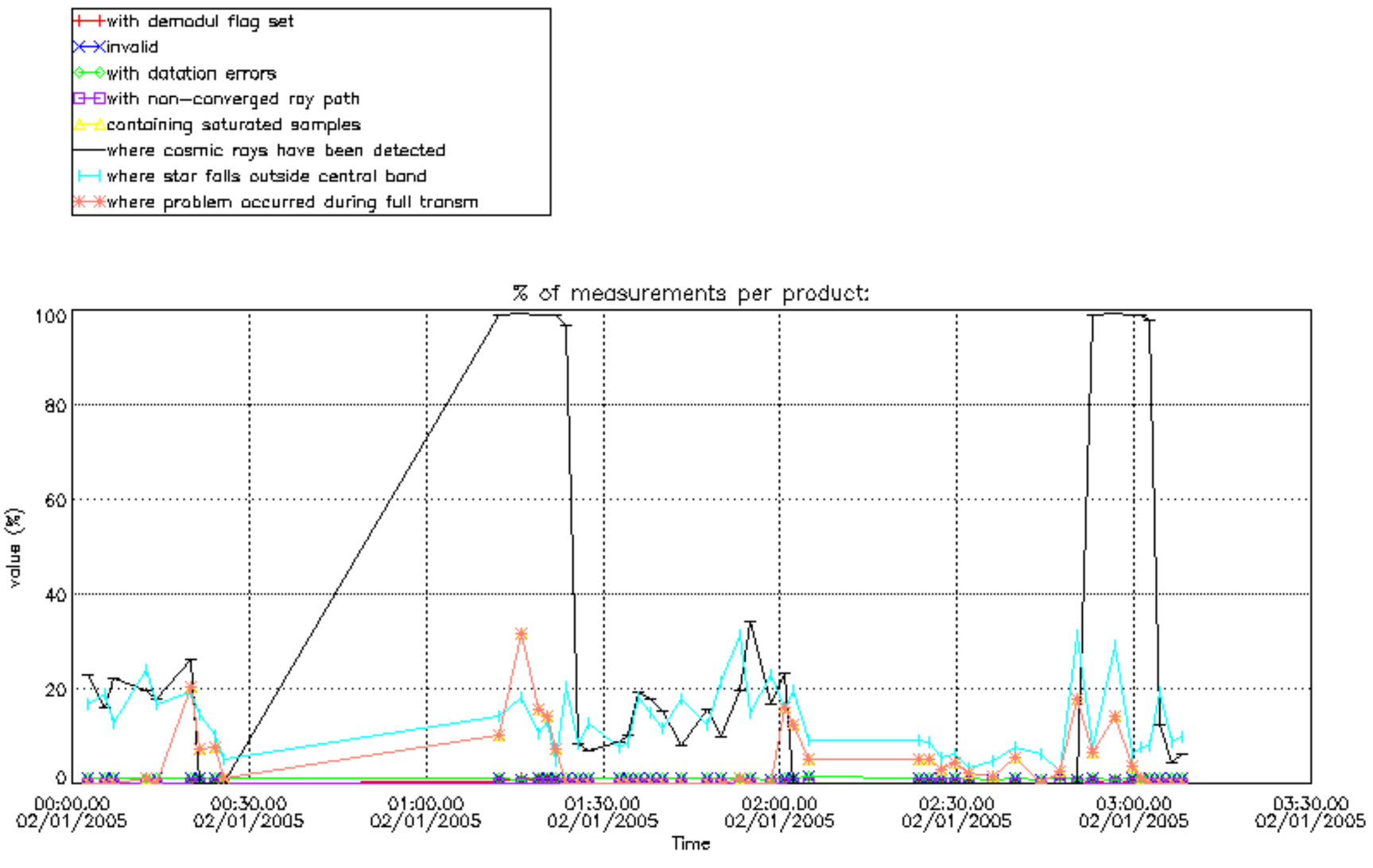

Spectrometer A CCD 1
Dark charge [e]
1320
1300
1280
1260
1240
1220
1200
1180
Upper
Middle
Lower
00:00.00 02/01/2005
00:30.00 02/01/2005
01:00.00 02/01/2005
01:30.00 02/01/2005
02:00.00 02/01/2005
02:30.00 02/01/2005
03:00.00 02/01/2005
03:30.00 02/01/2005
Time


Spectrometer A CCD 2
Dark charge [e]
1400
1350
1300
1250
1200
1150
1100
Upper
Middle
Lower
00:00.00 02/01/2005
00:30.00 02/01/2005
01:00.00 02/01/2005
01:30.00 02/01/2005
02:00.00 02/01/2005
02:30.00 02/01/2005
03:00.00 02/01/2005
03:30.00 02/01/2005
Time

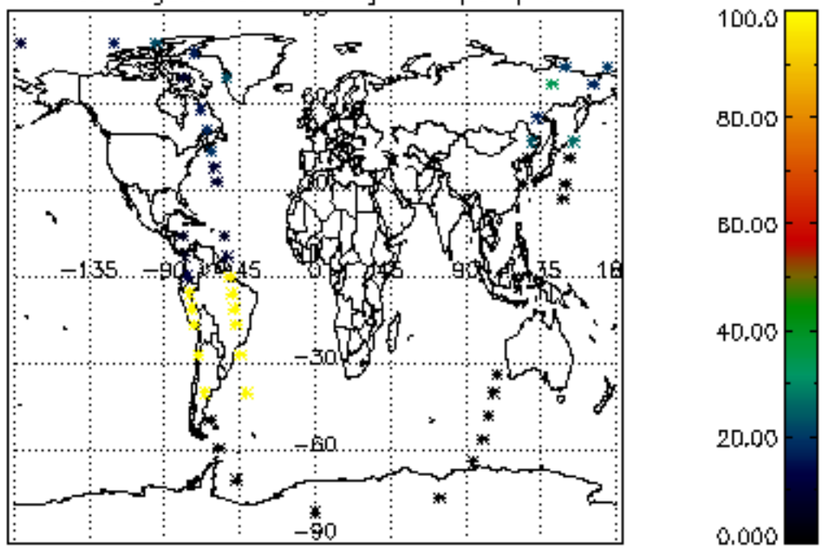

Spectrometer B CCD 1
Dark charge [e]
1750
1700
1650
1600
1550
1500
1450
1400
1350
Upper
Middle
Lower
00:00.00 02/01/2005
00:30.00 02/01/2005
01:00.00 02/01/2005
01:30.00 02/01/2005
02:00.00 02/01/2005
02:30.00 02/01/2005
03:00.00 02/01/2005
03:30.00 02/01/2005
Time


Spectrometer B CCD 2
Dark charge [e]
1550
1500
1450
1400
1350
1300
1250
Upper
Middle
Lower
00:00.00 02/01/2005
00:30.00 02/01/2005
01:00.00 02/01/2005
01:30.00 02/01/2005
02:00.00 02/01/2005
02:30.00 02/01/2005
03:00.00 02/01/2005
03:30.00 02/01/2005
Time

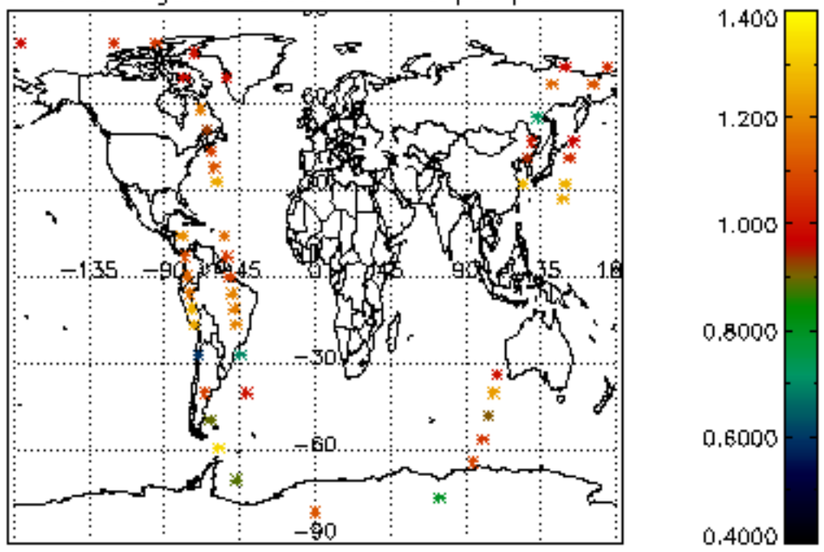

Photometers
Dark charge [e]
1600
1500
1400
1300
1200
1100
1000
FPA
FPB
00:00.00 02/01/2005
00:30.00 02/01/2005
01:00.00 02/01/2005
01:30.00 02/01/2005
02:00.00 02/01/2005
02:30.00 02/01/2005
03:00.00 02/01/2005
03:30.00 02/01/2005
Time


with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
value (%)
100
80
60
40
20
0
00:00.00 02/01/2005
00:30.00 02/01/2005
01:00.00 02/01/2005
01:30.00 02/01/2005
02:00.00 02/01/2005
02:30.00 02/01/2005
03:00.00 02/01/2005
03:30.00 02/01/2005
Time

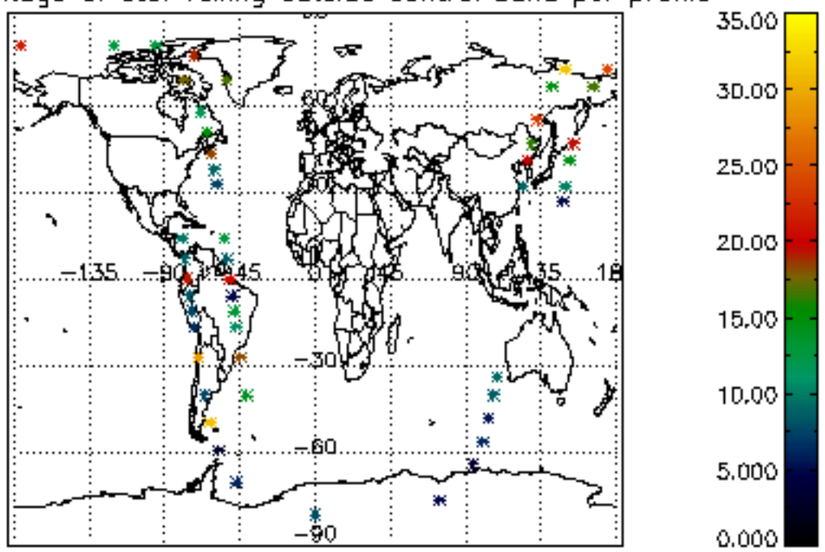
Percentage of cosmic ray hits per profile



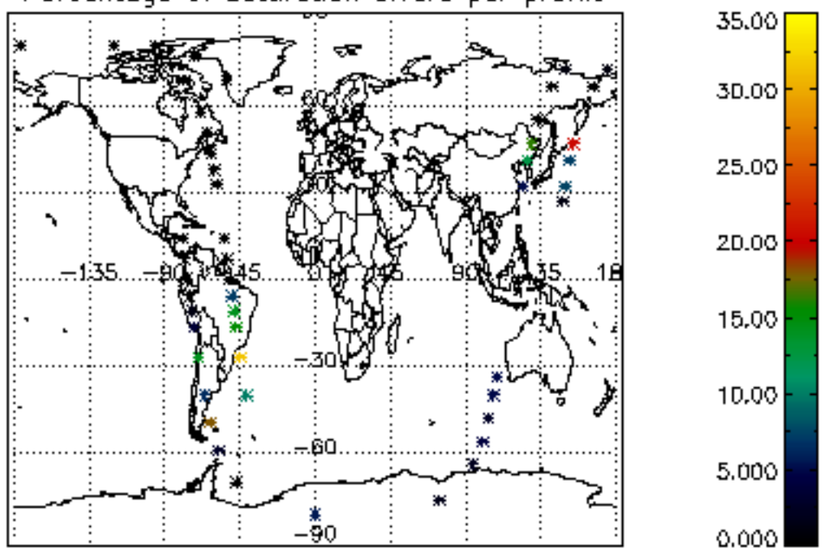
Percentage of datation errors per profile



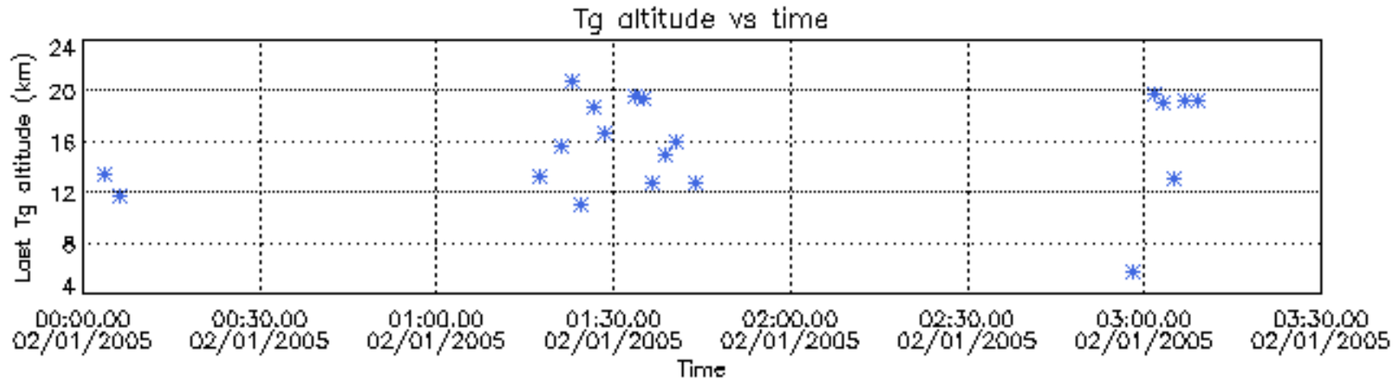
Percentage of star falling outside central band per profile

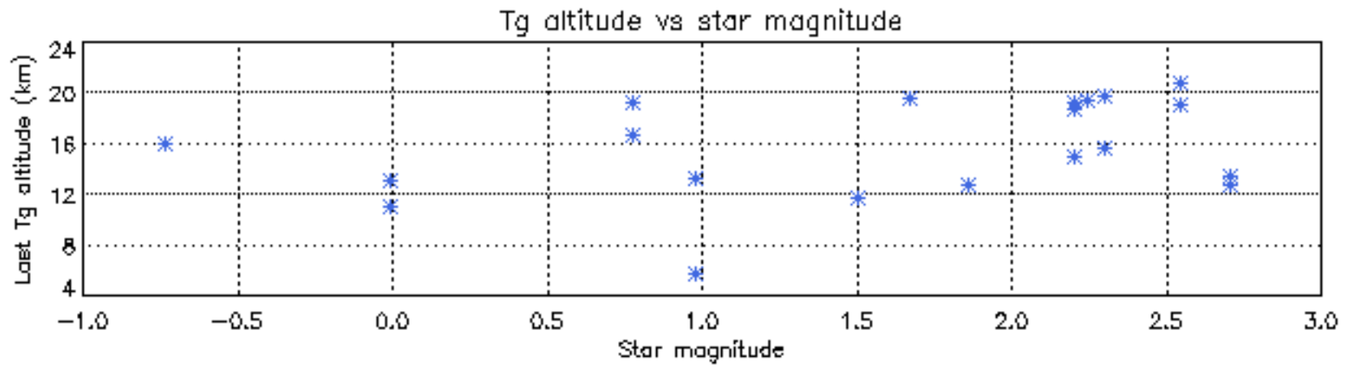


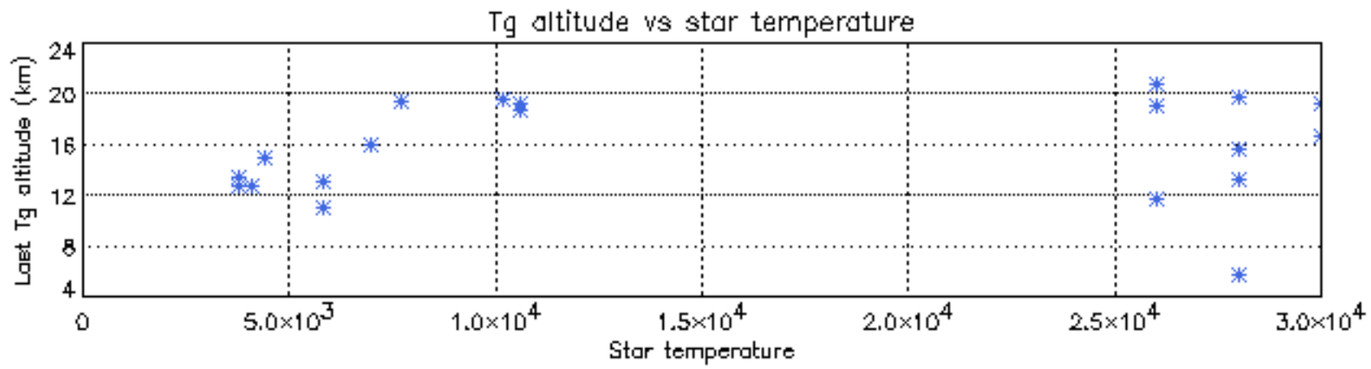
Percentage of saturation errors per profile



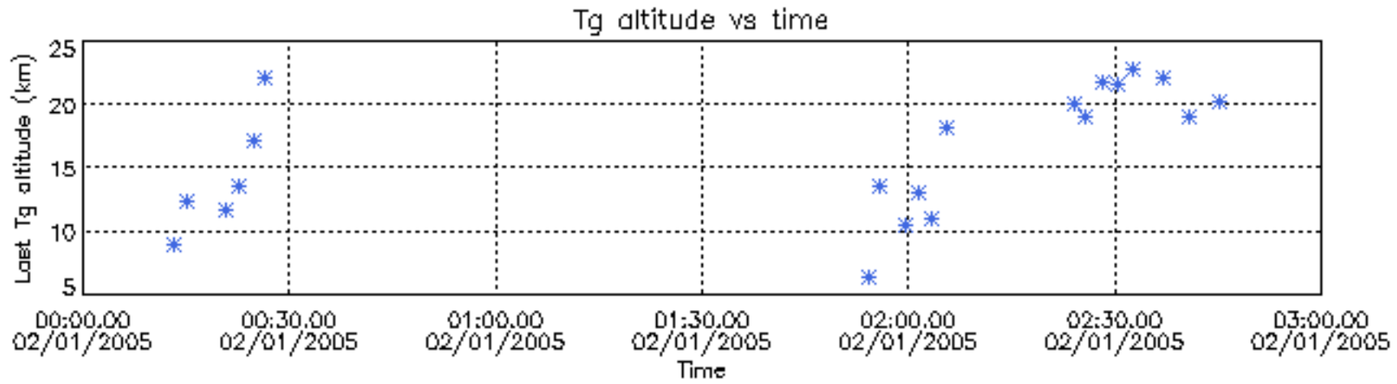
Tangent altitude at which the star is lost

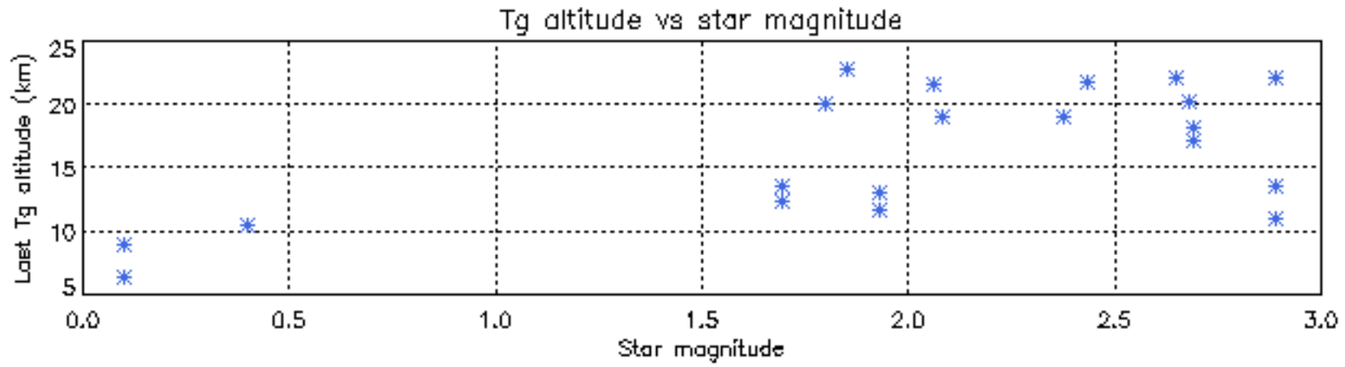


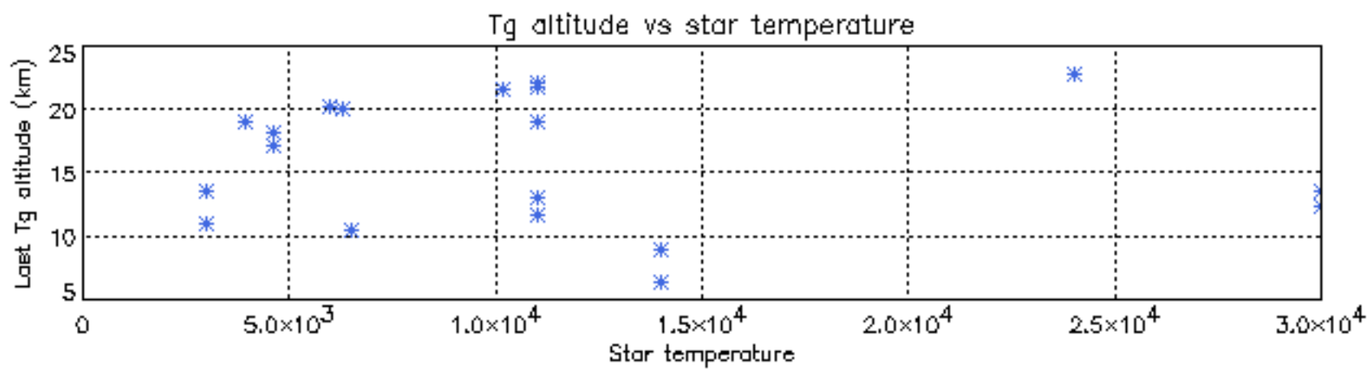




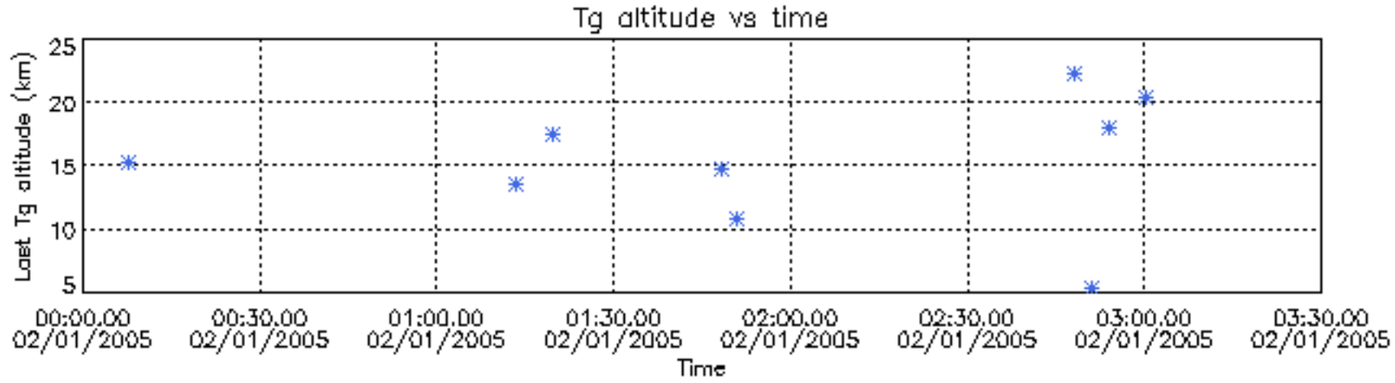
Tangent altitude at which the star is lost

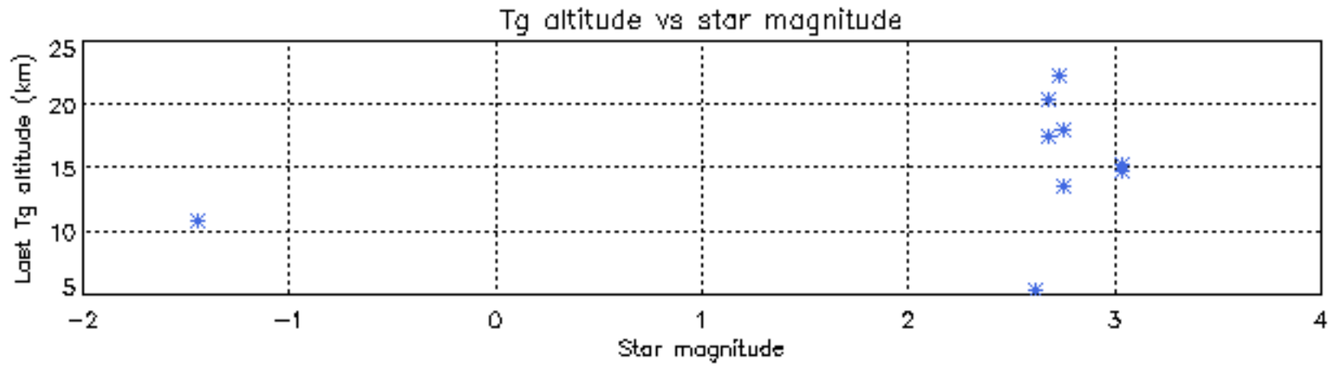


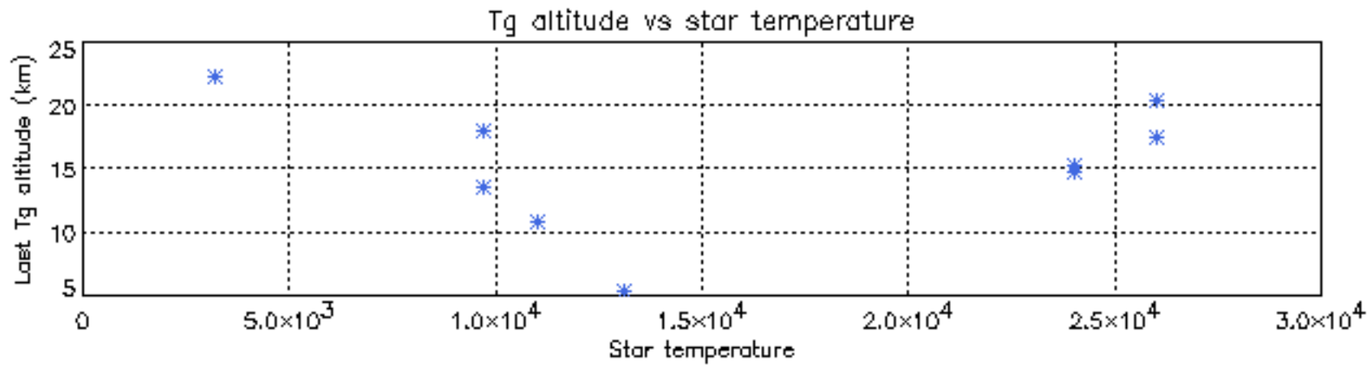




Tangent altitude at which the star is lost







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3; -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; 24Omi2CMa ; 3.03; 24000;occ; 93; 0;14843
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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
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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
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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
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22; 2226.3; 01-JAN-2005 02:32:23; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;14844
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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
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  33;  980.1; 01-JAN-2005 12:15:12; Dark  ;  51.0;    2;   Alp Car  ;-0.74;  7000;occ; 102;   0;14850
  34; 1174.7; 01-JAN-2005 12:18:27; Dark  ;  48.5;  117;   Pi  Pup  ; 2.71;  3800;occ;  97;   0;14850
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   4;-4155.3; 01-JAN-2005 12:30:12; Dark  ;  45.0;   30; 46Eps Ori  ; 1.69; 30000;occ;  90;   0;14850
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  14;-2205.4; 01-JAN-2005 13:02:42; Bright;  55.0;   87; 64Gam UMa  ; 2.43; 11000;occ; 110;   0;14850
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  27;  403.3; 01-JAN-2005 13:46:11; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14851
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  18; 3584.2; 01-JAN-2005 21:21:36; Bright;  49.0;   36; 50Alp UMa  ; 1.80;  6300;occ;  98;   0;14855
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  20; 3827.2; 01-JAN-2005 21:25:39; Bright;  55.0;   87; 64Gam UMa  ; 2.43; 11000;occ; 110;   0;14855
  21; 3963.0; 01-JAN-2005 21:27:55; Bright;  49.0;   55; 79Zet UMa  ; 2.06; 10200;occ;  98;   0;14855
  22; 4102.5; 01-JAN-2005 21:30:14; Bright;  47.5;   39; 85Eta UMa  ; 1.85; 24000;occ;  95;   0;14855
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   3; -674.3; 01-JAN-2005 21:51:13; Dark  ;  47.0;  122;  9Alp2Lib  ; 2.75;  9700;occ;  94;   0;14855
   4; -455.3; 01-JAN-2005 21:54:52; Dark  ;  75.0;   15; 67Alp Vir  ; 0.98; 28000;occ; 150;   0;14855
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  15;  855.9; 01-JAN-2005 22:16:43; Dark  ;  62.0;   65;   Lam Vel  ; 2.20;  4400;occ; 124;   0;14856
  16;  981.3; 01-JAN-2005 22:18:49; Dark  ;  52.5;    2;   Alp Car  ;-0.74;  7000;occ; 105;   0;14856
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  19; 1434.9; 01-JAN-2005 22:26:22; Dark  ;  48.0;  179; 24Omi2CMa  ; 3.03; 24000;occ;  96;   0;14856
  20; 1581.3; 01-JAN-2005 22:28:49; Dark  ;  57.0;    1;  9Alp CMa  ;-1.44; 11000;occ; 114;   0;14856
  21; 1770.3; 01-JAN-2005 22:31:58; Dark  ;  47.0;    7; 19Bet Ori  ; 0.10; 14000;occ;  94;   0;14856
  22; 1880.7; 01-JAN-2005 22:33:48; Dark  ;  45.0;   30; 46Eps Ori  ; 1.69; 30000;occ;  90;   0;14856
  23; 2082.7; 01-JAN-2005 22:37:10; Dark  ;  81.0;    8; 10Alp CMi  ; 0.40;  6500;occ; 162;   0;14856
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  26; 2470.4; 01-JAN-2005 22:43:38; Bright;  40.5;  114;  3Iot Aur  ; 2.69;  4600;occ;  81;   0;14856
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  31; 3420.7; 01-JAN-2005 22:59:28; Bright;  35.0;   49;  1Alp UMi  ; 1.99;  6300;occ;  70;   0;14856
  32; 3583.8; 01-JAN-2005 23:02:11; Bright;  45.5;   36; 50Alp UMa  ; 1.80;  6300;occ;  91;   0;14856
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  34; 3826.7; 01-JAN-2005 23:06:14; Bright;  55.0;   87; 64Gam UMa  ; 2.43; 11000;occ; 110;   0;14856
  35; 3963.4; 01-JAN-2005 23:08:31; Bright;  46.5;   55; 79Zet UMa  ; 2.06; 10200;occ;  93;   0;14856
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   4; -274.6; 01-JAN-2005 23:38:29; Dark  ;  39.5;  109;   Bet Lup  ; 2.68; 26000;occ;  79;   0;14856
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   7;    3.2; 01-JAN-2005 23:43:07; Dark  ;  53.0;    4;   Alp1Cen  ;-0.01;  5800;occ; 106;   0;14857
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   9;  237.0; 01-JAN-2005 23:47:00; Dark  ;  41.5;   12;   Alp1Cru  ; 0.77; 30000;occ;  83;   0;14857
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  13;  731.1; 01-JAN-2005 23:55:14; Dark  ;  53.0;   41;   Eps Car  ; 1.86;  4100;occ; 106;   0;14857
  14;  856.6; 01-JAN-2005 23:57:20; Dark  ;  65.5;   65;   Lam Vel  ; 2.20;  4400;occ; 131;   0;14857
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  20; 1770.1; 02-JAN-2005 00:12:34; Dark  ;  48.0;    7; 19Bet Ori  ; 0.10; 14000;occ;  96;   0;14857
  21; 1880.1; 02-JAN-2005 00:14:23; Dark  ;  45.0;   30; 46Eps Ori  ; 1.69; 30000;occ;  90;   0;14857
  22; 2082.8; 02-JAN-2005 00:17:46; Dark  ;  81.0;    8; 10Alp CMi  ; 0.40;  6500;occ; 162;   0;14857
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  24; 2319.6; 02-JAN-2005 00:21:43; Bright;  48.0;  151; 13Mu  Gem  ; 2.89;  3000;occ;  96;   0;14857
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   9;-4005.6; 01-JAN-2005 17:34:30; Dark  ;  55.0;   14; 58Alp Ori  ; 0.87;  3000;occ; 110;   0;14853
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   2; -664.4; 03-JAN-2005 00:40:58; Dark  ;  48.0;  122;  9Alp2Lib  ; 2.75;  9700;occ;  96;   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
10;  409.5; 03-JAN-2005 00:58:51; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14872
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21; 1881.1; 03-JAN-2005 01:23:23; Dark  ;  43.0;   30; 46Eps Ori  ; 1.69; 30000;occ;  86;   0;14872
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
24; 2316.2; 03-JAN-2005 01:30:38; Bright;  58.0;  151; 13Mu  Gem  ; 2.89;  3000;occ; 116;   0;14872
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
28; 2808.8; 03-JAN-2005 01:38:51; Bright;  38.5;   35; 33Alp Per  ; 1.79;  6250;occ;  77;   0;14872
29; 2886.6; 03-JAN-2005 01:40:09; Bright;  38.0;  160; 23Gam Per  ; 2.93;  4700;occ;  76;   0;14872
30; 3420.9; 03-JAN-2005 01:49:03; Bright;  37.0;   49;  1Alp UMi  ; 1.99;  6300;occ;  74;   0;14872
31; 3573.3; 03-JAN-2005 01:51:35; Bright;  52.0;   36; 50Alp UMa  ; 1.80;  6300;occ; 104;   0;14872
32; 3685.8; 03-JAN-2005 01:53:28; Bright;  41.0;   60;  7Bet UMi  ; 2.08;  3950;occ;  82;   0;14872
33; 3815.6; 03-JAN-2005 01:55:38; Bright;  56.5;   87; 64Gam UMa  ; 2.43; 11000;occ; 113;   0;14872
34; 3958.2; 03-JAN-2005 01:58:00; Bright;  47.5;   55; 79Zet UMa  ; 2.06; 10200;occ;  95;   0;14872
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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
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 17; 1345.8; 03-JAN-2005 02:55:04; Dark  ;  51.5;   23; 21Eps CMa  ; 1.50; 26000;occ; 103;   0;14873
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 19; 1583.4; 03-JAN-2005 02:59:01; Dark  ;  55.5;    1;  9Alp CMa  ;-1.44; 11000;occ; 111;   0;14873
 20; 1770.1; 03-JAN-2005 03:02:08; Dark  ;  49.5;    7; 19Bet Ori  ; 0.10; 14000;occ;  99;   0;14873
 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
 24; 2313.6; 03-JAN-2005 03:11:11; Bright;  50.0;  151; 13Mu  Gem  ; 2.89;  3000;occ; 100;   0;14873
 25; 2469.5; 03-JAN-2005 03:13:47; Bright;  42.5;  114;  3Iot Aur  ; 2.69;  4600;occ;  85;   0;14873
 26; 2555.0; 03-JAN-2005 03:15:13; Bright;  43.0;  107; 37The Aur  ; 2.65; 11000;occ;  86;   0;14873
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22;  739.1; 03-JAN-2005 04:25:33; Dark  ;  46.0;   41;   Eps Car  ; 1.86;  4100;occ;  92;   0;14874
23;  868.4; 03-JAN-2005 04:27:42; Dark  ;  54.5;   65;   Lam Vel  ; 2.20;  4400;occ; 109;   0;14874
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28; 1583.6; 03-JAN-2005 04:39:37; Dark  ;  52.0;    1;  9Alp CMa  ;-1.44; 11000;occ; 104;   0;14874
29; 1772.6; 03-JAN-2005 04:42:46; Dark  ;  45.0;    7; 19Bet Ori  ; 0.10; 14000;occ;  90;   0;14874
30; 1881.2; 03-JAN-2005 04:44:35; Dark  ;  46.0;   30; 46Eps Ori  ; 1.69; 30000;occ;  92;   0;14874
31; 2072.2; 03-JAN-2005 04:47:46; Dark  ;  67.0;    8; 10Alp CMi  ; 0.40;  6500;occ; 134;   0;14874
32; 2216.7; 03-JAN-2005 04:50:11; Dark  ;  51.5;   44; 24Gam Gem  ; 1.93; 11000;occ; 103;   0;14874
33; 2315.7; 03-JAN-2005 04:51:50; Bright;  47.5;  151; 13Mu  Gem  ; 2.89;  3000;occ;  95;   0;14874
34; 2472.4; 03-JAN-2005 04:54:26; Bright;  39.0;  114;  3Iot Aur  ; 2.69;  4600;occ;  78;   0;14874
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13; -266.1; 03-JAN-2005 05:49:24; Dark  ;  39.5;  109;   Bet Lup  ; 2.68; 26000;occ;  79;   0;14874
14; -177.3; 03-JAN-2005 05:50:53; Dark  ;  40.5;   78;   Alp Lup  ; 2.30; 28000;occ;  81;   0;14874
15;  -82.9; 03-JAN-2005 05:52:27; Dark  ;  43.0;   95;   Zet Cen  ; 2.55; 26000;occ;  86;   0;14874
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21;  645.3; 03-JAN-2005 06:04:35; Dark  ;  46.0;   71;   Iot Car  ; 2.25;  7700;occ;  92;   0;14875
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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25; 1183.5; 03-JAN-2005 06:13:33; Dark  ;  49.0;  117;   Pi  Pup  ; 2.71;  3800;occ;  98;   0;14875
26; 1348.6; 03-JAN-2005 06:16:18; Dark  ;  49.0;   23; 21Eps CMa  ; 1.50; 26000;occ;  98;   0;14875
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 27; 2923.2; 10-JAN-2005 01:20:38; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83;   0;14972
 28; 3423.5; 10-JAN-2005 01:28:59; Bright; 34.5;   49; 1Alp UMi ; 1.99; 6300;occ; 69;   0;14972
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 32; 4068.0; 10-JAN-2005 01:39:43; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68;   0;14972
 33; 4246.7; 10-JAN-2005 01:42:42; Bright; 37.0;   5; 3Alp Lyr ; 0.03; 11000;occ; 74;   0;14972
 34; 4354.1; 10-JAN-2005 01:44:29; Bright; 47.0; 180; 27Gam Boo ; 3.04; 8000;occ; 94;   0;14972
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 37; 4919.4; 10-JAN-2005 01:53:55; Bright; 75.0; 111; 8Eta Boo ; 2.68; 6000;occ; 150;   0;14972

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 38; 3423.7; 11-JAN-2005 05:59:10; Bright;  37.0;   49;  1Alp UMi  ; 1.99;  6300;occ;  74;   0;14989
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  9; -876.5; 11-JAN-2005 06:28:06; Bright;  37.0;   98; 13Zet Oph  ; 2.57; 30000;occ;  74;   0;14989
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 21;  786.9; 11-JAN-2005 06:55:49; Dark  ;  45.5;   41;   Eps Car  ; 1.86;  4100;occ;  91;   0;14990
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 25; 1377.1; 11-JAN-2005 07:05:40; Dark  ;  44.5;   23; 21Eps CMa  ; 1.50; 26000;occ;  89;   0;14990
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 7;-3549.4; 11-JAN-2005 07:24:09; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79;   0;14990
 8;-3362.4; 11-JAN-2005 07:27:16; Bright; 38.5;   42; 34Bet Aur ; 1.90; 10200;occ; 77;   0;14990
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15;-1784.6; 11-JAN-2005 07:53:34; Bright; 36.5;   5; 3Alp Lyr ; 0.03; 11000;occ; 73;   0;14990
16;-1682.1; 11-JAN-2005 07:55:16; Bright; 47.5; 180; 27Gam Boo ; 3.04; 8000;occ; 95;   0;14990
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23; -302.4; 11-JAN-2005 08:18:16; Dark ; 38.5; 131;   Gam Lup ; 2.80; 26000;occ; 77;   0;14990
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25;   52.9; 11-JAN-2005 08:24:11; Dark ; 52.0;   4;   Alp1Cen ;-0.01; 5800;occ; 104;   0;14991
26; 253.4; 11-JAN-2005 08:27:32; Dark ; 43.0;   20;   Bet Cru ; 1.25; 30000;occ; 86;   0;14991
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28; 507.4; 11-JAN-2005 08:31:46; Dark ; 37.5; 124;   The Car ; 2.76; 30000;occ; 75;   0;14991
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31; 787.4; 11-JAN-2005 08:36:26; Dark ; 48.0;   41;   Eps Car ; 1.86; 4100;occ; 96;   0;14991
32; 1013.5; 11-JAN-2005 08:40:12; Dark ; 44.5;   2;   Alp Car ;-0.74; 7000;occ; 89;   0;14991
33; 1115.2; 11-JAN-2005 08:41:54; Dark ; 45.0;   70;   Zet Pup ; 2.25; 39000;occ; 90;   0;14991
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36; 1464.0; 11-JAN-2005 08:47:42; Dark ; 42.5; 179; 24Omi2CMa ; 3.03; 24000;occ; 85;   0;14991
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  26; 253.9; 11-JAN-2005 10:08:08; Dark ; 42.0;   20;   Bet Cru ; 1.25; 30000;occ; 84;   0;14992
  27; 353.4; 11-JAN-2005 10:09:48; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;14992
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  29; 599.6; 11-JAN-2005 10:13:54; Dark ; 38.0;   29;   Bet Car ; 1.67; 10200;occ; 76;   0;14992
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31; 510.0; 11-JAN-2005 16:54:48; Dark ; 38.5; 124;   The Car ; 2.76; 30000;occ; 77;   0;14996
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33; 708.6; 11-JAN-2005 16:58:07; Dark ; 42.5;   71;   Iot Car ; 2.25; 7700;occ; 85;   0;14996
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 23;-1093.2; 11-JAN-2005 18:08:41; Dark ; 88.0; 111; 8Eta Boo ; 2.68; 6000;occ; 176;   0;14996
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 30; 257.2; 11-JAN-2005 18:31:11; Dark ; 45.5;   20;   Bet Cru ; 1.25; 30000;occ; 91;   0;14997
 31; 358.1; 11-JAN-2005 18:32:52; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;14997
 32; 510.5; 11-JAN-2005 18:35:25; Dark ; 39.0; 124;   The Car ; 2.76; 30000;occ; 78;   0;14997

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3;-1965.5; 12-JAN-2005 02:17:08; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;15001
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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
8;-1088.0; 12-JAN-2005 02:31:46; Dark ; 89.0; 111; 8Eta Boo ; 2.68; 6000;occ; 178; 0;15001
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12; -298.4; 12-JAN-2005 02:44:55; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;15001
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15; 363.0; 12-JAN-2005 02:55:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
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30; 2292.6; 12-JAN-2005 03:28:06; Bright; 44.5; 151; 13Mu Gem ; 2.89; 3000;occ; 89; 0;15002
31; 2396.8; 12-JAN-2005 03:29:50; Bright; 39.5; 28; 12Bet Tau ; 1.65; 15200;occ; 79; 0;15002
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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13; -175.8; 12-JAN-2005 06:08:10; Dark ; 93.0; 15; 67Alp Vir ; 0.98; 28000;occ; 186; 0;15003
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22; 1223.8; 12-JAN-2005 06:31:29; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;15004
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25; 1601.4; 12-JAN-2005 06:37:47; Dark ; 47.0; 1; 9Alp CMa ;-1.44; 11000;occ; 94; 0;15004
26; 1795.3; 12-JAN-2005 06:41:01; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;15004
27; 1896.9; 12-JAN-2005 06:42:43; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;15004
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29; 2191.3; 12-JAN-2005 06:47:37; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;15004
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31; 2398.1; 12-JAN-2005 06:51:04; Bright; 39.0; 28; 12Bet Tau ; 1.65; 15200;occ; 78; 0;15004
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  34; 1379.5; 12-JAN-2005 09:55:17; Dark  ;  44.5;   23; 21Eps CMa  ; 1.50; 26000;occ;  89;   0;15006
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 23; -168.2; 12-JAN-2005 11:10:05; Dark ; 96.5;   15; 67Alp Vir ; 0.98; 28000;occ; 193;   0;15006
 24;   10.6; 12-JAN-2005 11:13:04; Dark ; 45.0;   95;   Zet Cen ; 2.55; 26000;occ; 90;   0;15007
 25; 262.5; 12-JAN-2005 11:17:16; Dark ; 42.0;   20;   Bet Cru ; 1.25; 30000;occ; 84;   0;15007
 26; 367.6; 12-JAN-2005 11:19:01; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;15007
 27; 513.4; 12-JAN-2005 11:21:27; Dark ; 41.0; 124;   The Car ; 2.76; 30000;occ; 82;   0;15007
 28; 603.2; 12-JAN-2005 11:22:57; Dark ; 40.0;   29;   Bet Car ; 1.67; 10200;occ; 80;   0;15007
 29; 713.0; 12-JAN-2005 11:24:46; Dark ; 40.5;   71;   Iot Car ; 2.25; 7700;occ; 81;   0;15007
 30; 792.2; 12-JAN-2005 11:26:06; Dark ; 48.0;   41;   Eps Car ; 1.86; 4100;occ; 96;   0;15007
 31; 1014.9; 12-JAN-2005 11:29:48; Dark ; 42.0;   2;   Alp Car ;-0.74; 7000;occ; 84;   0;15007
 32; 1120.1; 12-JAN-2005 11:31:34; Dark ; 45.5;   70;   Zet Pup ; 2.25; 39000;occ; 91;   0;15007
 33; 1223.7; 12-JAN-2005 11:33:17; Dark ; 47.0; 117;   Pi Pup ; 2.71; 3800;occ; 94;   0;15007
 34; 1379.8; 12-JAN-2005 11:35:53; Dark ; 46.0;   23; 21Eps CMa ; 1.50; 26000;occ; 92;   0;15007
 35; 1463.6; 12-JAN-2005 11:37:17; Dark ; 43.5; 179; 24Omi2CMa ; 3.03; 24000;occ; 87;   0;15007
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  7;-3742.8; 12-JAN-2005 11:51:06; Bright; 45.0; 151; 13Mu Gem ; 2.89; 3000;occ; 90;   0;15007
  8;-3638.0; 12-JAN-2005 11:52:51; Bright; 39.5;   28; 12Bet Tau ; 1.65; 15200;occ; 79;   0;15007
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 12;-2615.7; 12-JAN-2005 12:09:54; Bright; 41.0;   49; 1Alp UMi ; 1.99; 6300;occ; 82;   0;15007
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 14;-2209.1; 12-JAN-2005 12:16:40; Bright; 52.0;   32; 77Eps UMa ; 1.76; 11000;occ; 104;   0;15007
 15;-1965.2; 12-JAN-2005 12:20:44; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71;   0;15007
 16;-1781.8; 12-JAN-2005 12:23:47; Bright; 37.5;   5; 3Alp Lyr ; 0.03; 11000;occ; 75;   0;15007
 17;-1683.1; 12-JAN-2005 12:25:26; Bright; 49.5; 180; 27Gam Boo ; 3.04; 8000;occ; 99;   0;15007
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 22; -747.3; 12-JAN-2005 12:41:02; Dark ; 48.5; 104; 27Bet Lib ; 2.61; 13100;occ; 97;   0;15007
 23; -606.6; 12-JAN-2005 12:43:23; Dark ; 52.0;   16; 21Alp Sco ; 1.02; 3000;occ; 104;   0;15007
 24; -295.0; 12-JAN-2005 12:48:34; Dark ; 41.0; 131;   Gam Lup ; 2.80; 26000;occ; 82;   0;15007
 25; -165.7; 12-JAN-2005 12:50:44; Dark ; 96.0;   15; 67Alp Vir ; 0.98; 28000;occ; 192;   0;15007
 26;   9.6; 12-JAN-2005 12:53:39; Dark ; 47.0;   95;   Zet Cen ; 2.55; 26000;occ; 94;   0;15008
 27; 263.1; 12-JAN-2005 12:57:52; Dark ; 43.5;   20;   Bet Cru ; 1.25; 30000;occ; 87;   0;15008
 28; 368.5; 12-JAN-2005 12:59:38; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;15008
 29; 513.9; 12-JAN-2005 13:02:03; Dark ; 40.5; 124;   The Car ; 2.76; 30000;occ; 81;   0;15008
 30; 603.3; 12-JAN-2005 13:03:33; Dark ; 39.0;   29;   Bet Car ; 1.67; 10200;occ; 78;   0;15008
 31; 713.4; 12-JAN-2005 13:05:23; Dark ; 41.0;   71;   Iot Car ; 2.25; 7700;occ; 82;   0;15008
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 33; 1015.5; 12-JAN-2005 13:10:25; Dark ; 48.5;   2;   Alp Car ;-0.74; 7000;occ; 97;   0;15008
 34; 1120.6; 12-JAN-2005 13:12:10; Dark ; 45.0;   70;   Zet Pup ; 2.25; 39000;occ; 90;   0;15008

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  10;-3234.6; 12-JAN-2005 13:40:11; Bright;  38.5;  175; 39Del Per  ; 3.01; 19400;occ;  77;   0;15008
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  13;-2210.1; 12-JAN-2005 13:57:15; Bright;  52.0;   32; 77Eps UMa  ; 1.76; 11000;occ; 104;   0;15008
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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
  29;  604.0; 12-JAN-2005 14:44:09; Dark  ;  43.5;   29;   Bet Car  ; 1.67; 10200;occ;  87;   0;15009
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  33; 1121.3; 12-JAN-2005 14:52:47; Dark  ;  44.5;   70;   Zet Pup  ; 2.25; 39000;occ;  89;   0;15009
  34; 1225.2; 12-JAN-2005 14:54:30; Dark  ;  46.5;  117;   Pi  Pup  ; 2.71;  3800;occ;  93;   0;15009
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  12; 1122.1; 12-JAN-2005 23:15:47; Dark  ;  45.5;   70;   Zet Pup  ; 2.25; 39000;occ;  91;   0;15014
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  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
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  29; 604.0; 12-JAN-2005 14:44:09; Dark ; 43.5;   29;   Bet Car ; 1.67; 10200;occ; 87;   0;15009
  30; 714.2; 12-JAN-2005 14:45:59; Dark ; 40.0;   71;   Iot Car ; 2.25; 7700;occ; 80;   0;15009
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  33; 1121.3; 12-JAN-2005 14:52:47; Dark ; 44.5;   70;   Zet Pup ; 2.25; 39000;occ; 89;   0;15009
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   3;-4239.9; 12-JAN-2005 15:04:01; Dark ; 46.0;   7; 19Bet Ori ; 0.10; 14000;occ; 92;   0;15009
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  10;-3364.2; 12-JAN-2005 15:18:37; Bright; 37.5;   42; 34Bet Aur ; 1.90; 10200;occ; 75;   0;15009
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  14;-2210.8; 12-JAN-2005 15:37:50; Bright; 54.0;   32; 77Eps UMa ; 1.76; 11000;occ; 108;   0;15009
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  17;-1683.0; 12-JAN-2005 15:46:38; Bright; 48.5; 180; 27Gam Boo ; 3.04; 8000;occ; 97;   0;15009
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  23; -603.2; 12-JAN-2005 16:04:38; Dark  ;  52.0;   16; 21Alp Sco  ; 1.02;  3000;occ; 104;   0;15009
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  31;  714.7; 12-JAN-2005 16:26:36; Dark  ;  40.5;   71;   Iot Car  ; 2.25;  7700;occ;  81;   0;15010
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   5;-4015.3; 12-JAN-2005 15:07:46; Dark  ;  55.0;    8; 10Alp CMi  ; 0.40;  6500;occ; 110;   0;15009
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   8;-3637.7; 12-JAN-2005 15:14:04; Bright;  39.5;   28; 12Bet Tau  ; 1.65; 15200;occ;  79;   0;15009
   9;-3546.7; 12-JAN-2005 15:15:35; Bright;  40.5;  114;  3Iot Aur  ; 2.69;  4600;occ;  81;   0;15009
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  26;   13.8; 12-JAN-2005 16:14:55; Dark  ;  45.0;   95;   Zet Cen  ; 2.55; 26000;occ;  90;   0;15010
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  28;  370.4; 12-JAN-2005 16:20:52; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;15010
  29;  515.7; 12-JAN-2005 16:23:17; Dark  ;  41.0;  124;   The Car  ; 2.76; 30000;occ;  82;   0;15010
  30;  604.3; 12-JAN-2005 16:24:46; Dark  ;  40.5;   29;   Bet Car  ; 1.67; 10200;occ;  81;   0;15010
  31;  714.7; 12-JAN-2005 16:26:36; Dark  ;  40.5;   71;   Iot Car  ; 2.25;  7700;occ;  81;   0;15010
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  34; 1120.7; 12-JAN-2005 16:33:22; Dark  ;  47.5;   70;   Zet Pup  ; 2.25; 39000;occ;  95;   0;15010
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  27; -158.2; 12-JAN-2005 17:52:39; Dark  ;  94.0;   15; 67Alp Vir  ; 0.98; 28000;occ; 188;   0;15010
  28;    58.2; 12-JAN-2005 17:56:15; Dark  ;  52.0;  123;   Iot Cen  ; 2.75; 10200;occ; 104;   0;15011
  29;   265.8; 12-JAN-2005 17:59:43; Dark  ;  42.0;   20;   Bet Cru  ; 1.25; 30000;occ;  84;   0;15011
  30;   371.3; 12-JAN-2005 18:01:29; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;15011
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  26; 2804.1; 13-JAN-2005 01:24:25; Bright; 39.0; 175; 39Del Per ; 3.01; 19400;occ; 78;   0;15015
  27; 3066.2; 13-JAN-2005 01:28:47; Bright; 141.5; 166; 17Eps Leo ; 2.98; 6000;occ; 283;   0;15015
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  29; 3666.1; 13-JAN-2005 01:38:47; Bright; 41.0;   60; 7Bet UMi ; 2.08; 3950;occ; 82;   0;15015
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  31; 4071.8; 13-JAN-2005 01:45:33; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76;   0;15015
  32; 4615.8; 13-JAN-2005 01:54:37; Bright; 56.5;   83;   ; 2.38; 11000;occ; 113;   0;15015
  33; 4733.7; 13-JAN-2005 01:56:35; Bright; 36.5;   59; 55Alp Oph ; 2.08; 8900;occ; 73;   0;15015
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 11;-2995.2; 13-JAN-2005 13:12:33; Bright; 129.0;  166; 17Eps Leo  ; 2.98;  6000;occ; 258;   0;15022
 12;-2613.1; 13-JAN-2005 13:18:55; Bright;  37.5;   49;  1Alp UMi  ; 1.99;  6300;occ;  75;   0;15022
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 24; -288.0; 13-JAN-2005 13:57:40; Dark  ;  40.0;  131;   Gam Lup  ; 2.80; 26000;occ;  80;   0;15022
 25; -187.9; 13-JAN-2005 13:59:21; Dark  ;  44.0;  109;   Bet Lup  ; 2.68; 26000;occ;  88;   0;15022
 26;  -94.6; 13-JAN-2005 14:00:54; Dark  ;  42.0;   78;   Alp Lup  ; 2.30; 28000;occ;  84;   0;15022
 27;   23.1; 13-JAN-2005 14:02:52; Dark  ;  45.0;   95;   Zet Cen  ; 2.55; 26000;occ;  90;   0;15023
 28;  272.4; 13-JAN-2005 14:07:01; Dark  ;  42.5;   20;   Bet Cru  ; 1.25; 30000;occ;  85;   0;15023
 29;  382.6; 13-JAN-2005 14:08:51; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;15023
 30;  521.4; 13-JAN-2005 14:11:10; Dark  ;  42.0;  124;   The Car  ; 2.76; 30000;occ;  84;   0;15023
 31;  608.1; 13-JAN-2005 14:12:37; Dark  ;  41.5;   29;   Bet Car  ; 1.67; 10200;occ;  83;   0;15023
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 37; 1382.7; 13-JAN-2005 14:25:31; Dark  ;  47.5;   23; 21Eps CMa  ; 1.50; 26000;occ;  95;   0;15023
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 30;  273.3; 13-JAN-2005 15:47:38; Dark  ;  45.0;   20;   Bet Cru  ; 1.25; 30000;occ;  90;   0;15024
 31;  383.5; 13-JAN-2005 15:49:28; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;15024
 32;  522.4; 13-JAN-2005 15:51:47; Dark  ;  41.5;  124;   The Car  ; 2.76; 30000;occ;  83;   0;15024
 33;  608.4; 13-JAN-2005 15:53:13; Dark  ;  39.0;   29;   Bet Car  ; 1.67; 10200;occ;  78;   0;15024
 34;  721.2; 13-JAN-2005 15:55:06; Dark  ;  40.5;   71;   Iot Car  ; 2.25;  7700;occ;  81;   0;15024
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  19;-1778.5; 13-JAN-2005 16:54:02; Bright;  35.5;    5;  3Alp Lyr  ; 0.03; 11000;occ;  71;   0;15024
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  26; -598.1; 13-JAN-2005 17:13:42; Dark  ;  47.5;   16; 21Alp Sco  ; 1.02;  3000;occ;  95;   0;15024
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  19; 1900.3; 14-JAN-2005 02:18:20; Dark  ;  45.5;   30; 46Eps Ori  ; 1.69; 30000;occ;  91;   0;15030
  20; 2016.4; 14-JAN-2005 02:20:16; Dark  ;  62.0;    8; 10Alp CMi  ; 0.40;  6500;occ; 124;   0;15030
  21; 2185.8; 14-JAN-2005 02:23:06; Dark  ;  47.5;   44; 24Gam Gem  ; 1.93; 11000;occ;  95;   0;15030
  22; 2271.0; 14-JAN-2005 02:24:31; Bright;  38.0;  176; 23Zet Tau  ; 3.02; 22000;occ;  76;   0;15030
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  27; 3012.4; 14-JAN-2005 02:36:53; Bright; 118.5;  166; 17Eps Leo  ; 2.98;  6000;occ; 237;   0;15030
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   3;-2114.9; 14-JAN-2005 06:13:13; Bright;  38.0;  119; 14Eta Dra  ; 2.73;  4700;occ;  76;   0;15032
   4;-1962.5; 14-JAN-2005 06:15:46; Bright;  38.0;  130; 23Bet Dra  ; 2.80;  5800;occ;  76;   0;15032
   5;-1776.7; 14-JAN-2005 06:18:51; Bright;  36.5;    5;  3Alp Lyr  ; 0.03; 11000;occ;  73;   0;15032
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   7;-1415.9; 14-JAN-2005 06:24:52; Bright;  57.5;   83;            ; 2.38; 11000;occ; 115;   0;15032
   8;-1298.4; 14-JAN-2005 06:26:50; Bright;  36.0;   59; 55Alp Oph  ; 2.08;  8900;occ;  72;   0;15032
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   3;-4020.0; 14-JAN-2005 07:22:04; Dark  ;  64.0;    8; 10Alp CMi  ; 0.40;  6500;occ; 128;   0;15033
   4;-3847.1; 14-JAN-2005 07:24:57; Dark  ;  45.0;   44; 24Gam Gem  ; 1.93; 11000;occ;  90;   0;15033
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  11;-3081.1; 15-JAN-2005 08:46:42; Bright; 112.0;  166; 17Eps Leo  ; 2.98;  6000;occ; 224;   0;15048
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  13;-2375.9; 15-JAN-2005 08:58:27; Bright;  42.0;   60;  7Bet UMi  ; 2.08;  3950;occ;  84;   0;15048
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  19;-1410.7; 15-JAN-2005 09:14:32; Bright;  58.5;   83;           ; 2.38; 11000;occ; 117;   0;15048
  20;-1031.7; 15-JAN-2005 09:20:51; Dark  ;  97.0;  111;  8Eta Boo  ; 2.68;  6000;occ; 194;   0;15048
  21; -716.7; 15-JAN-2005 09:26:06; Dark  ;  52.0;  104; 27Bet Lib  ; 2.61; 13100;occ; 104;   0;15048
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  26;  -56.8; 15-JAN-2005 09:37:06; Dark  ; 106.0;   15; 67Alp Vir  ; 0.98; 28000;occ; 212;   0;15048
  27;  279.7; 15-JAN-2005 09:42:43; Dark  ;  59.5;    0;           ; 0.00;     0;occ; 119;   0;15049
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  30;  616.6; 15-JAN-2005 09:48:20; Dark  ;  40.0;   29;   Bet Car  ; 1.67; 10200;occ;  80;   0;15049
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   7;-3537.7; 15-JAN-2005 10:19:41; Bright;  41.5;  114;  3Iot Aur  ; 2.69;  4600;occ;  83;   0;15049
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  20; -715.5; 15-JAN-2005 11:06:44; Dark  ;  50.5;  104; 27Bet Lib  ; 2.61; 13100;occ; 101;   0;15049
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  22; -488.2; 15-JAN-2005 11:10:31; Dark  ;  39.5;   75; 26Eps Sco  ; 2.29;  4250;occ;  79;   0;15049
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  25;  -53.6; 15-JAN-2005 11:17:45; Dark  ; 112.0;   15; 67Alp Vir  ; 0.98; 28000;occ; 224;   0;15049
  26;  280.0; 15-JAN-2005 11:23:19; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;15050
  27;  394.0; 15-JAN-2005 11:25:13; Dark  ;  48.0;   99;   Del Cen  ; 2.58; 26000;occ;  96;   0;15050
  28;  535.7; 15-JAN-2005 11:27:35; Dark  ;  39.0;  124;   The Car  ; 2.76; 30000;occ;  78;   0;15050
  29;  616.4; 15-JAN-2005 11:28:55; Dark  ;  41.5;   29;   Bet Car  ; 1.67; 10200;occ;  83;   0;15050
  30;  732.3; 15-JAN-2005 11:30:51; Dark  ;  42.0;   71;   Iot Car  ; 2.25;  7700;occ;  84;   0;15050
  31;  844.7; 15-JAN-2005 11:32:44; Dark  ;  42.0;   46;   Del Vel  ; 1.95; 10600;occ;  84;   0;15050
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  33; 1136.1; 15-JAN-2005 11:37:35; Dark  ;  45.0;   70;   Zet Pup  ; 2.25; 39000;occ;  90;   0;15050
  34; 1236.1; 15-JAN-2005 11:39:15; Dark  ;  47.5;  117;   Pi  Pup  ; 2.71;  3800;occ;  95;   0;15050
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  36; 1474.1; 15-JAN-2005 11:43:13; Dark  ;  40.5;  179; 24Omi2CMa  ; 3.03; 24000;occ;  81;   0;15050
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   2;-4231.2; 15-JAN-2005 11:48:44; Dark  ;  52.0;    7; 19Bet Ori  ; 0.10; 14000;occ; 104;   0;15050
   3;-4131.3; 15-JAN-2005 11:50:24; Dark  ;  46.0;   30; 46Eps Ori  ; 1.69; 30000;occ;  92;   0;15050
   4;-4024.3; 15-JAN-2005 11:52:11; Dark  ;  62.0;    8; 10Alp CMi  ; 0.40;  6500;occ; 124;   0;15050
   5;-3849.2; 15-JAN-2005 11:55:06; Dark  ;  45.0;   44; 24Gam Gem  ; 1.93; 11000;occ;  90;   0;15050
   6;-3761.7; 15-JAN-2005 11:56:33; Bright;  37.5;  176; 23Zet Tau  ; 3.02; 22000;occ;  75;   0;15050
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  11;-2612.8; 15-JAN-2005 12:15:42; Bright;  39.0;   49;  1Alp UMi  ; 1.99;  6300;occ;  78;   0;15050
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  13;-2235.0; 15-JAN-2005 12:22:00; Bright;  48.0;   32; 77Eps UMa  ; 1.76; 11000;occ;  96;   0;15050
  14;-2115.8; 15-JAN-2005 12:23:59; Bright;  36.5;  119; 14Eta Dra  ; 2.73;  4700;occ;  73;   0;15050
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  17;-1584.0; 15-JAN-2005 12:32:51; Bright;  40.0;  133; 40Zet Her  ; 2.81;  6000;occ;  80;   0;15050
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  22; -487.6; 15-JAN-2005 12:51:07; Dark  ;  44.5;   75; 26Eps Sco  ; 2.29;  4250;occ;  89;   0;15050
  23; -272.9; 15-JAN-2005 12:54:42; Dark  ;  41.0;  131;   Gam Lup  ; 2.80; 26000;occ;  82;   0;15050
  24;  -87.0; 15-JAN-2005 12:57:48; Dark  ;  51.0;   54;  5The Cen  ; 2.06;  4500;occ; 102;   0;15050
  25;  280.3; 15-JAN-2005 13:03:55; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;15051
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  27;  535.7; 15-JAN-2005 13:08:11; Dark  ;  40.0;  124;   The Car  ; 2.76; 30000;occ;  80;   0;15051
  28;  614.4; 15-JAN-2005 13:09:29; Dark  ;  44.5;   29;   Bet Car  ; 1.67; 10200;occ;  89;   0;15051
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  30;  844.2; 15-JAN-2005 13:13:19; Dark  ;  41.5;   46;   Del Vel  ; 1.95; 10600;occ;  83;   0;15051
  31; 1022.8; 15-JAN-2005 13:16:18; Dark  ;  52.0;    2;   Alp Car  ;-0.74;  7000;occ; 104;   0;15051
  32; 1136.1; 15-JAN-2005 13:18:11; Dark  ;  46.5;   70;   Zet Pup  ; 2.25; 39000;occ;  93;   0;15051
  33; 1235.4; 15-JAN-2005 13:19:50; Dark  ;  48.5;  117;   Pi  Pup  ; 2.71;  3800;occ;  97;   0;15051
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15;  846.2; 15-JAN-2005 21:36:21; Dark  ;  46.0;   46;   Del Vel  ; 1.95; 10600;occ;  92;   0;15056
16; 1023.6; 15-JAN-2005 21:39:18; Dark  ;  45.0;    2;   Alp Car  ;-0.74;  7000;occ;  90;   0;15056
17; 1137.1; 15-JAN-2005 21:41:12; Dark  ;  44.5;   70;   Zet Pup  ; 2.25; 39000;occ;  89;   0;15056
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20; 1472.5; 15-JAN-2005 21:46:47; Dark  ;  44.0;  179; 24Omi2CMa  ; 3.03; 24000;occ;  88;   0;15056
21; 1605.7; 15-JAN-2005 21:49:01; Dark  ;  51.0;    1;  9Alp CMa  ;-1.44; 11000;occ; 102;   0;15056
22; 1806.0; 15-JAN-2005 21:52:21; Dark  ;  49.5;    7; 19Bet Ori  ; 0.10; 14000;occ;  99;   0;15056
23; 1903.1; 15-JAN-2005 21:53:58; Dark  ;  44.0;   30; 46Eps Ori  ; 1.69; 30000;occ;  88;   0;15056
24; 2010.7; 15-JAN-2005 21:55:45; Dark  ;  62.0;    8; 10Alp CMi  ; 0.40;  6500;occ; 124;   0;15056
25; 2186.6; 15-JAN-2005 21:58:41; Dark  ;  44.0;   44; 24Gam Gem  ; 1.93; 11000;occ;  88;   0;15056
26; 2274.1; 15-JAN-2005 22:00:09; Bright;  38.5;  176; 23Zet Tau  ; 3.02; 22000;occ;  77;   0;15056
27; 2404.9; 15-JAN-2005 22:02:20; Bright;  39.0;   28; 12Bet Tau  ; 1.65; 15200;occ;  78;   0;15056
28; 2498.1; 15-JAN-2005 22:03:53; Bright;  42.5;  114;  3Iot Aur  ; 2.69;  4600;occ;  85;   0;15056
29; 2667.2; 15-JAN-2005 22:06:42; Bright;  42.0;   42; 34Bet Aur  ; 1.90; 10200;occ;  84;   0;15056
30; 2931.6; 15-JAN-2005 22:11:06; Bright; 102.5;  166; 17Eps Leo  ; 2.98;  6000;occ; 205;   0;15056
31; 3420.7; 15-JAN-2005 22:19:15; Bright;  37.0;   49;  1Alp UMi  ; 1.99;  6300;occ;  74;   0;15056
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34; 3919.6; 15-JAN-2005 22:27:34; Bright;  39.5;  119; 14Eta Dra  ; 2.73;  4700;occ;  79;   0;15056
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36; 4261.7; 15-JAN-2005 22:33:17; Bright;  37.5;    5;  3Alp Lyr  ; 0.03; 11000;occ;  75;   0;15056
37; 4453.2; 15-JAN-2005 22:36:28; Bright;  40.0;  133; 40Zet Her  ; 2.81;  6000;occ;  80;   0;15056
38; 4628.1; 15-JAN-2005 22:39:23; Bright;  59.0;   83;            ; 2.38; 11000;occ; 118;   0;15056
39; 4903.3; 15-JAN-2005 22:43:58; Bright;  90.5;    3; 16Alp Boo  ;-0.05;  4250;occ; 181;   0;15056
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41; 5179.0; 15-JAN-2005 22:48:34; Bright;  41.0;   98; 13Zet Oph  ; 2.57; 30000;occ;  82;   0;15056
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13; 1024.5; 15-JAN-2005 23:19:55; Dark  ;  51.5;    2;   Alp Car  ;-0.74;  7000;occ; 103;   0;15057
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21; 2010.8; 15-JAN-2005 23:36:21; Dark  ;  56.5;    8; 10Alp CMi  ; 0.40;  6500;occ; 113;   0;15057
22; 2185.5; 15-JAN-2005 23:39:16; Dark  ;  46.0;   44; 24Gam Gem  ; 1.93; 11000;occ;  92;   0;15057
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27; 2929.0; 15-JAN-2005 23:51:40; Bright; 107.5;  166; 17Eps Leo  ; 2.98;  6000;occ; 215;   0;15057
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  14;-2235.5; 15-JAN-2005 14:02:35; Bright;  53.0;   32; 77Eps UMa  ; 1.76; 11000;occ; 106;   0;15051
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  30;  621.4; 16-JAN-2005 10:57:24; Dark  ;  41.0;   29;   Bet Car  ; 1.67; 10200;occ;  82;   0;15064
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  29;  407.1; 16-JAN-2005 12:34:25; Dark  ;  47.5;   99;   Del Cen  ; 2.58; 26000;occ;  95;   0;15065
  30;  543.0; 16-JAN-2005 12:36:41; Dark  ;  39.5;  124;   The Car  ; 2.76; 30000;occ;  79;   0;15065
  31;  621.7; 16-JAN-2005 12:38:00; Dark  ;  38.5;   29;   Bet Car  ; 1.67; 10200;occ;  77;   0;15065
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  33;  851.2; 16-JAN-2005 12:41:49; Dark  ;  41.0;   46;   Del Vel  ; 1.95; 10600;occ;  82;   0;15065
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13;-2244.9; 16-JAN-2005 13:30:49; Bright;  52.5;   32; 77Eps UMa  ; 1.76; 11000;occ; 105;   0;15065
14;-2116.6; 16-JAN-2005 13:32:57; Bright;  39.0;  119; 14Eta Dra  ; 2.73;  4700;occ;  78;   0;15065
15;-1959.5; 16-JAN-2005 13:35:35; Bright;  38.0;  130; 23Bet Dra  ; 2.80;  5800;occ;  76;   0;15065
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22; -702.7; 16-JAN-2005 13:56:31; Dark  ;  54.5;  104; 27Bet Lib  ; 2.61; 13100;occ; 109;   0;15065
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27;  -65.9; 16-JAN-2005 14:07:08; Dark  ;  42.0;   78;   Alp Lup  ; 2.30; 28000;occ;  84;   0;15065
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33;  738.8; 16-JAN-2005 14:20:33; Dark  ;  41.0;   71;   Iot Car  ; 2.25;  7700;occ;  82;   0;15066
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  25; 2887.4; 17-JAN-2005 00:59:57; Bright;  96.5;  166; 17Eps Leo  ; 2.98;  6000;occ; 193;   0;15072
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  37; 1479.5; 17-JAN-2005 08:59:29; Dark  ;  41.5;  179; 24Omi2CMa  ; 3.03; 24000;occ;  83;   0;15077
  38; 1612.0; 17-JAN-2005 09:01:42; Dark  ;  47.0;    1;  9Alp CMa  ;-1.44; 11000;occ;  94;   0;15077
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  27;  287.5; 17-JAN-2005 10:20:13; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;15078
  28;  418.4; 17-JAN-2005 10:22:24; Dark  ;  47.5;   99;   Del Cen  ; 2.58; 26000;occ;  95;   0;15078
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  22; -577.4; 17-JAN-2005 11:46:24; Dark  ;  51.0;   16; 21Alp Sco  ; 1.02;  3000;occ; 102;   0;15078
  23; -479.9; 17-JAN-2005 11:48:01; Dark  ;  44.5;   75; 26Eps Sco  ; 2.29;  4250;occ;  89;   0;15078
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  30; 2003.8; 18-JAN-2005 03:34:49; Dark  ;  60.0;    8; 10Alp CMi  ; 0.40;  6500;occ; 120;   0;15088
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  30; 2001.9; 18-JAN-2005 05:15:23; Dark  ;  60.0;    8; 10Alp CMi  ; 0.40;  6500;occ; 120;   0;15089
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  17;-2010.6; 18-JAN-2005 09:10:18; Bright;  54.0;   39; 85Eta UMa  ; 1.85; 24000;occ; 108;   0;15091
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 11;-2612.0; 18-JAN-2005 10:40:53; Bright; 36.5;   49; 1Alp UMi ; 1.99; 6300;occ; 73;   0;15092
 12;-2383.1; 18-JAN-2005 10:44:42; Bright; 44.0;   60; 7Bet UMi ; 2.08; 3950;occ; 88;   0;15092
 13;-2262.2; 18-JAN-2005 10:46:42; Bright; 54.5;   32; 77Eps UMa ; 1.76; 11000;occ; 109;   0;15092
 14;-2118.6; 18-JAN-2005 10:49:06; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80;   0;15092
 15;-2011.0; 18-JAN-2005 10:50:54; Bright; 56.5;   39; 85Eta UMa ; 1.85; 24000;occ; 113;   0;15092
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 18;-1397.1; 18-JAN-2005 11:01:08; Bright; 62.5;   83;   ; 2.38; 11000;occ; 125;   0;15092
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 21; -797.3; 18-JAN-2005 11:11:07; Bright; 37.5;   86; 35Eta Oph ; 2.43; 10200;occ; 75;   0;15092
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 27; -42.7; 18-JAN-2005 11:23:42; Dark ; 55.5;   54; 5The Cen ; 2.06; 4500;occ; 111;   0;15092
 28; 291.5; 18-JAN-2005 11:29:16; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;15093
 29; 431.7; 18-JAN-2005 11:31:36; Dark ; 46.0;   99;   Del Cen ; 2.58; 26000;occ; 92;   0;15093
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 32; 862.2; 18-JAN-2005 11:38:47; Dark ; 46.5;   46;   Del Vel ; 1.95; 10600;occ; 93;   0;15093
 33; 1030.2; 18-JAN-2005 11:41:35; Dark ; 52.0;   2;   Alp Car ;-0.74; 7000;occ; 104;   0;15093
 34; 1151.1; 18-JAN-2005 11:43:36; Dark ; 41.0;   70;   Zet Pup ; 2.25; 39000;occ; 82;   0;15093
 35; 1245.8; 18-JAN-2005 11:45:10; Dark ; 48.0; 117;   Pi Pup ; 2.71; 3800;occ; 96;   0;15093
 36; 1397.8; 18-JAN-2005 11:47:42; Dark ; 45.0;   23; 21Eps CMa ; 1.50; 26000;occ; 90;   0;15093
 37; 1481.7; 18-JAN-2005 11:49:06; Dark ; 43.0; 179; 24Omi2CMa ; 3.03; 24000;occ; 86;   0;15093
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  4;-4122.3; 18-JAN-2005 11:56:18; Dark ; 42.5;   30; 46Eps Ori ; 1.69; 30000;occ; 85;   0;15093
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  7;-3746.8; 18-JAN-2005 12:02:34; Bright; 42.5; 151; 13Mu Gem ; 2.89; 3000;occ; 85;   0;15093
  8;-3625.0; 18-JAN-2005 12:04:35; Bright; 39.5;   28; 12Bet Tau ; 1.65; 15200;occ; 79;   0;15093
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 11;-3200.9; 18-JAN-2005 12:11:40; Bright; 91.5; 166; 17Eps Leo ; 2.98; 6000;occ; 183;   0;15093
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 13;-2383.9; 18-JAN-2005 12:25:17; Bright; 37.0;   60; 7Bet UMi ; 2.08; 3950;occ; 74;   0;15093
 14;-2263.3; 18-JAN-2005 12:27:17; Bright; 55.0;   32; 77Eps UMa ; 1.76; 11000;occ; 110;   0;15093
 15;-2118.7; 18-JAN-2005 12:29:42; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79;   0;15093
 16;-2011.5; 18-JAN-2005 12:31:29; Bright; 56.0;   39; 85Eta UMa ; 1.85; 24000;occ; 112;   0;15093
 17;-1764.9; 18-JAN-2005 12:35:36; Bright; 39.0;   5; 3Alp Lyr ; 0.03; 11000;occ; 78;   0;15093
 18;-1578.3; 18-JAN-2005 12:38:42; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80;   0;15093
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 21; -918.1; 18-JAN-2005 12:49:42; Bright; 43.5; 120; 1Del Oph ; 2.73; 3200;occ; 87;   0;15093
 22; -797.1; 18-JAN-2005 12:51:43; Bright; 37.5;   86; 35Eta Oph ; 2.43; 10200;occ; 75;   0;15093
 23; -679.1; 18-JAN-2005 12:53:41; Dark ; 53.0; 104; 27Bet Lib ; 2.61; 13100;occ; 106;   0;15093
 24; -571.4; 18-JAN-2005 12:55:29; Dark ; 54.0;   16; 21Alp Sco ; 1.02; 3000;occ; 108;   0;15093
 25; -475.9; 18-JAN-2005 12:57:05; Dark ; 44.0;   75; 26Eps Sco ; 2.29; 4250;occ; 88;   0;15093
 26; -248.9; 18-JAN-2005 13:00:52; Dark ; 42.0; 131;   Gam Lup ; 2.80; 26000;occ; 84;   0;15093
 27; -137.7; 18-JAN-2005 13:02:43; Dark ; 42.0; 109;   Bet Lup ; 2.68; 26000;occ; 84;   0;15093
 28; -42.1; 18-JAN-2005 13:04:18; Dark ; 52.0;   54; 5The Cen ; 2.06; 4500;occ; 104;   0;15093
 29; 291.8; 18-JAN-2005 13:09:52; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;15094
 30; 432.6; 18-JAN-2005 13:12:13; Dark ; 46.0;   99;   Del Cen ; 2.58; 26000;occ; 92;   0;15094
 31; 630.2; 18-JAN-2005 13:15:31; Dark ; 39.0;   29;   Bet Car ; 1.67; 10200;occ; 78;   0;15094
 32; 751.3; 18-JAN-2005 13:17:32; Dark ; 40.5;   71;   Iot Car ; 2.25; 7700;occ; 81;   0;15094
 33; 862.6; 18-JAN-2005 13:19:23; Dark ; 41.0;   46;   Del Vel ; 1.95; 10600;occ; 82;   0;15094
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  17;-2265.5; 18-JAN-2005 17:29:03; Bright; 54.0;   32; 77Eps UMa ; 1.76; 11000;occ; 108;   0;15096
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  23; 4460.9; 19-JAN-2005 22:10:44; Bright; 41.0; 133; 40Zet Her ; 2.81; 6000;occ; 82;   0;15113
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   4; -237.0; 19-JAN-2005 22:33:02; Dark ; 42.0; 131;   Gam Lup ; 2.80; 26000;occ; 84;   0;15113
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   9; 449.8; 19-JAN-2005 22:44:29; Dark ; 47.0;   99;   Del Cen ; 2.58; 26000;occ; 94;   0;15114
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  19; 1769.1; 19-JAN-2005 23:06:28; Dark ; 42.5;   56; 53Kap Ori ; 2.07; 30000;occ; 85;   0;15114

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 25; 307.3; 22-JAN-2005 12:44:16; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;15151
 26; 396.1; 22-JAN-2005 12:45:45; Dark ; 42.5;   12;   Alp1Cru ; 0.77; 30000;occ; 85;   0;15151
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22; -543.4; 22-JAN-2005 15:51:17; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;15152
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24; -361.4; 22-JAN-2005 15:54:19; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;15152
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  31;  308.4; 22-JAN-2005 19:26:41; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;15155
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  33;  484.9; 22-JAN-2005 19:29:38; Dark  ;  48.0;   99;   Del Cen  ; 2.58; 26000;occ;  96;   0;15155
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   4;-3985.6; 21-JAN-2005 15:25:32; Dark  ;  52.0;   14; 58Alp Ori  ; 0.87;  3000;occ; 104;   0;15138
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  33;  878.7; 21-JAN-2005 16:46:36; Dark  ;  42.0;   46;   Del Vel  ; 1.95; 10600;occ;  84;   0;15139
  34; 1036.5; 21-JAN-2005 16:49:14; Dark  ;  49.0;    2;   Alp Car  ;-0.74;  7000;occ;  98;   0;15139
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   1;  167.5; 25-JAN-2005 22:51:17; Dark  ;  38.0;  145;   Gam TrA  ; 2.87; 10600;occ;  76;   0;15200
   2;  263.5; 25-JAN-2005 22:52:53; Dark  ;  58.5;    0;            ; 0.00;     0;occ; 117;   0;15200
   3;  424.6; 25-JAN-2005 22:55:34; Dark  ;  41.0;   12;   Alp1Cru  ; 0.77; 30000;occ;  82;   0;15200
   4;  523.7; 25-JAN-2005 22:57:13; Dark  ;  47.5;   99;   Del Cen  ; 2.58; 26000;occ;  95;   0;15200
   5;  660.8; 25-JAN-2005 22:59:30; Dark  ;  38.5;   29;   Bet Car  ; 1.67; 10200;occ;  77;   0;15200
   6;  794.3; 25-JAN-2005 23:01:44; Dark  ;  44.0;   71;   Iot Car  ; 2.25;  7700;occ;  88;   0;15200
   7;  902.0; 25-JAN-2005 23:03:32; Dark  ;  42.0;   46;   Del Vel  ; 1.95; 10600;occ;  84;   0;15200
   8; 1044.4; 25-JAN-2005 23:05:54; Dark  ;  46.5;    2;   Alp Car  ;-0.74;  7000;occ;  93;   0;15200
   9; 1183.5; 25-JAN-2005 23:08:13; Dark  ;  41.0;   70;   Zet Pup  ; 2.25; 39000;occ;  82;   0;15200
  10; 1271.4; 25-JAN-2005 23:09:41; Dark  ;  43.0;  117;   Pi  Pup  ; 2.71;  3800;occ;  86;   0;15200
  11; 1418.9; 25-JAN-2005 23:12:09; Dark  ;  41.0;   23; 21Eps CMa  ; 1.50; 26000;occ;  82;   0;15200
  12; 1501.8; 25-JAN-2005 23:13:31; Dark  ;  37.5;  179; 24Omi2CMa  ; 3.03; 24000;occ;  75;   0;15200
  13; 1631.2; 25-JAN-2005 23:15:41; Dark  ;  36.5;    1;  9Alp CMa  ;-1.44; 11000;occ;  73;   0;15200
  14; 1754.3; 25-JAN-2005 23:17:44; Dark  ;  58.5;   48; 30Alp Hya  ; 1.98;  4100;occ; 117;   0;15200
  15; 1994.1; 25-JAN-2005 23:21:44; Dark  ;  55.0;    8; 10Alp CMi  ; 0.40;  6500;occ; 110;   0;15200
  16; 2189.3; 25-JAN-2005 23:24:59; Bright;  39.0;   44; 24Gam Gem  ; 1.93; 11000;occ;  78;   0;15200
  17; 2296.5; 25-JAN-2005 23:26:46; Bright;  40.5;  151; 13Mu  Gem  ; 2.89;  3000;occ;  81;   0;15200
  18; 2409.9; 25-JAN-2005 23:28:40; Bright;  43.5;   17; 78Bet Gem  ; 1.16;  4500;occ;  87;   0;15200
  19; 2551.2; 25-JAN-2005 23:31:01; Bright;  36.0;  107; 37The Aur  ; 2.65; 11000;occ;  72;   0;15200
  20; 2678.6; 25-JAN-2005 23:33:08; Bright;  35.5;   42; 34Bet Aur  ; 1.90; 10200;occ;  71;   0;15200
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