GOMOS Daily Report 26-DEC-2004

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	29DEC2004 05:11:19

Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-3D (26DEC2004 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-3D (27DEC2004 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

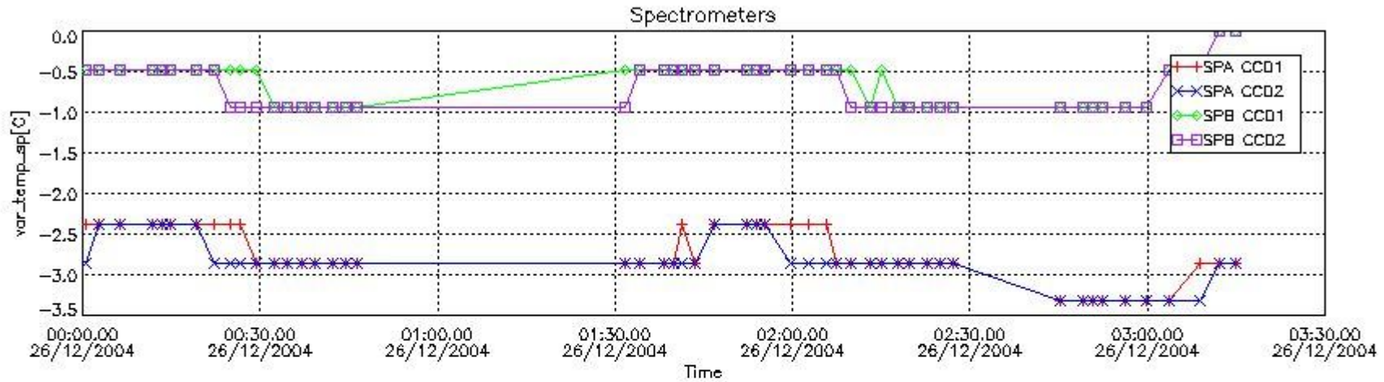
2.1 Level 0 products arrived in PCF (see template here)

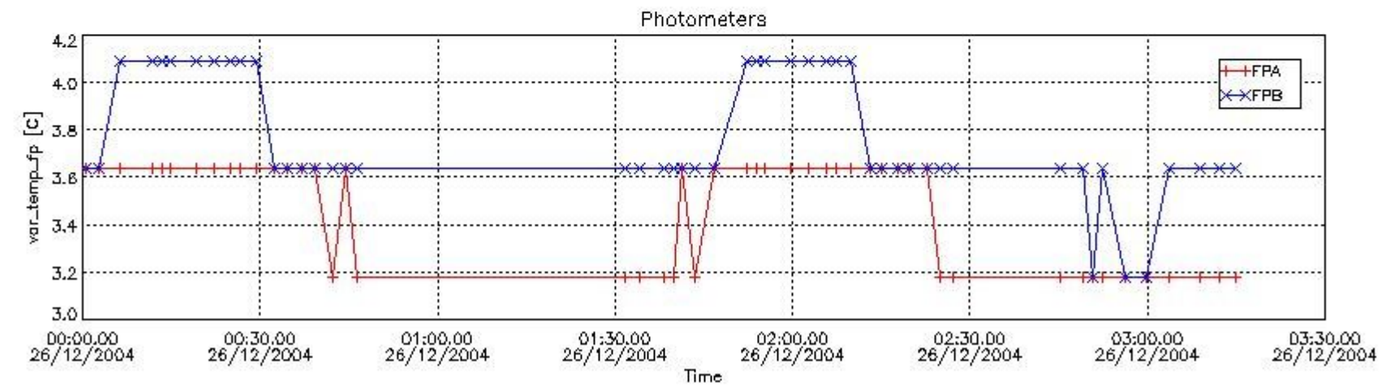
2.2 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20041226_000039_000000422033_00173_14756_0004.N1	26-DEC-2004 00:00:39	Dark	41.500	95	Zet Cen	2.5450	26000.	83	14756	No
2	GOM_TRA_1PNPDE20041226_000245_000000452033_00173_14756_0005.N1	26-DEC-2004 00:02:45	Dark	45.000	4	Alp1Cen	-0.010000	5800.0	90	14756	No
3	GOM_TRA_1PNPDE20041226_000618_000000442033_00174_14757_0006.N1	26-DEC-2004 00:06:18	Dark	44.000	12	Alp1Cru	0.77500	30000.	88	14757	No
4	GOM_TRA_1PNPDE20041226_001146_000000422033_00174_14757_0007.N1	26-DEC-2004 00:11:46	Dark	42.000	29	Bet Car	1.6720	10200.	84	14757	No
5	GOM_TRA_1PNPDE20041226_001319_000000452033_00174_14757_0008.N1	26-DEC-2004 00:13:19	Dark	44.500	91	Kap Vel	2.4900	26000.	89	14757	No
6	GOM_TRA_1PNPDE20041226_001447_000000452033_00174_14757_0009.N1	26-DEC-2004 00:14:47	Dark	45.000	46	Del Vel	1.9540	10600.	90	14757	No
7	GOM_TRA_1PNPDE20041226_001905_000000482033_00174_14757_0010.N1	26-DEC-2004 00:19:05	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	14757	No
8	GOM_TRA_1PNPDE20041226_002209_000000582033_00174_14757_0011.N1	26-DEC-2004 00:22:09	Dark	57.500	117	Pi Pup	2.7060	3800.0	115	14757	No
9	GOM_TRA_1PNPDE20041226_002506_000000512033_00174_14757_0012.N1	26-DEC-2004 00:25:06	Dark	50.500	23	21Eps CMa	1.5020	26000.	101	14757	No
10	GOM_TRA_1PNPDE20041226_002643_000000492033_00174_14757_0013.N1	26-DEC-2004 00:26:43	Dark	49.000	179	24Omi2CMa	3.0320	24000.	98	14757	No
11	GOM_TRA_1PNPDE20041226_002922_000000602033_00174_14757_0014.N1	26-DEC-2004 00:29:22	Twilight	60.000	1	9Alp CMa	-1.4400	11000.	120	14757	No
12	GOM_TRA_1PNPDE20041226_003230_000000462033_00174_14757_0015.N1	26-DEC-2004 00:32:30	Bright	46.000	7	19Bet Ori	0.10000	14000.	92	14757	No
13	GOM_TRA_1PNPDE20041226_003429_000000442033_00174_14757_0016.N1	26-DEC-2004 00:34:29	Bright	43.500	30	46Eps Ori	1.6940	30000.	87	14757	No
14	GOM_TRA_1PNPDE20041226_003711_000000582033_00174_14757_0017.N1	26-DEC-2004 00:37:11	Bright	58.000	14	58Alp Ori	0.87000	3000.0	116	14757	No
15	GOM_TRA_1PNPDE20041226_003909_000000882033_00174_14757_0018.N1	26-DEC-2004 00:39:09	Bright	88.000	8	10Alp CMi	0.40000	6500.0	176	14757	No
16	GOM_TRA_1PNPDE20041226_004213_000000392033_00174_14757_0019.N1	26-DEC-2004 00:42:13	Bright	38.500	146	25Eta Tau	2.8730	15200.	77	14757	No
17	GOM_TRA_1PNPDE20041226_004424_000000402033_00174_14757_0020.N1	26-DEC-2004 00:44:24	Bright	40.000	114	3Iot Aur	2.6930	4600.0	80	14757	No
18	GOM_TRA_1PNPDE20041226_004627_000000372033_00174_14757_0021.N1	26-DEC-2004 00:46:27	Bright	37.000	149	45Eps Per	2.8880	30000.	74	14757	No
19	GOM_TRA_1PNPDE20041226_013139_000000552033_00174_14757_0000.N1	26-DEC-2004 01:31:39	Twilight	55.000	122	9Alp2Lib	2.7470	9700.0	110	14757	No
20	GOM_TRA_1PNPDE20041226_013409_000000612033_00174_14757_0001.N1	26-DEC-2004 01:34:09	Twilight	60.500	15	67Alp Vir	0.97600	28000.	121	14757	No
21	GOM_TRA_1PNPDE20041226_013823_000000482033_00174_14757_0002.N1	26-DEC-2004 01:38:23	Twilight	48.000	54	5The Cen	2.0550	4500.0	96	14757	No
22	GOM_TRA_1PNPDE20041226_014000_000000402033_00174_14757_0003.N1	26-DEC-2004 01:40:00	Twilight	39.500	78	Alp Lup	2.3040	28000.	79	14757	No
23	GOM_TRA_1PNPDE20041226_014116_000000412033_00174_14757_0004.N1	26-DEC-2004 01:41:16	Dark	41.000	95	Zet Cen	2.5450	26000.	82	14757	No
24	GOM_TRA_1PNPDE20041226_014321_000000442033_00174_14757_0005.N1	26-DEC-2004 01:43:21	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	14757	No
25	GOM_TRA_1PNPDE20041226_014655_000000462033_00175_14758_0006.N1	26-DEC-2004 01:46:55	Dark	45.500	12	Alp1Cru	0.77500	30000.	91	14758	No
26	GOM_TRA_1PNPDE20041226_015220_000000432033_00175_14758_0007.N1	26-DEC-2004 01:52:20	Dark	43.000	29	Bet Car	1.6720	10200.	86	14758	No
27	GOM_TRA_1PNPDE20041226_015355_000000462033_00175_14758_0008.N1	26-DEC-2004 01:53:55	Dark	45.500	91	Kap Vel	2.4900	26000.	91	14758	No
28	GOM_TRA_1PNPDE20041226_015524_000000492033_00175_14758_0009.N1	26-DEC-2004 01:55:24	Dark	48.500	46	Del Vel	1.9540	10600.	97	14758	No
29	GOM_TRA_1PNPDE20041226_015941_000000452033_00175_14758_0010.N1	26-DEC-2004 01:59:41	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	14758	No
30	GOM_TRA_1PNPDE20041226_020244_000000522033_00175_14758_0011.N1	26-DEC-2004 02:02:44	Dark	52.000	117	Pi Pup	2.7060	3800.0	104	14758	No
31	GOM_TRA_1PNPDE20041226_020541_000000552033_00175_14758_0012.N1	26-DEC-2004 02:05:41	Dark	54.500	23	21Eps CMa	1.5020	26000.	109	14758	No
32	GOM_TRA_1PNPDE20041226_020720_000000532033_00175_14758_0013.N1	26-DEC-2004 02:07:20	Dark	52.500	179	24Omi2CMa	3.0320	24000.	105	14758	No
33	GOM_TRA_1PNPDE20041226_020958_000000582033_00175_14758_0014.N1	26-DEC-2004 02:09:58	Twilight	58.000	1	9Alp CMa	-1.4400	11000.	116	14758	No
34	GOM_TRA_1PNPDE20041226_021306_000000492033_00175_14758_0015.N1	26-DEC-2004 02:13:06	Bright	49.000	7	19Bet Ori	0.10000	14000.	98	14758	No
35	GOM_TRA_1PNPDE20041226_021504_000000452033_00175_14758_0016.N1	26-DEC-2004 02:15:04	Bright	44.500	30	46Eps Ori	1.6940	30000.	89	14758	No
36	GOM_TRA_1PNPDE20041226_021746_000000582033_00175_14758_0017.N1	26-DEC-2004 02:17:46	Bright	58.000	14	58Alp Ori	0.87000	3000.0	116	14758	No
37	GOM_TRA_1PNPDE20041226_021944_000001022033_00175_14758_0018.N1	26-DEC-2004 02:19:44	Bright	102.00	8	10Alp CMi	0.40000	6500.0	204	14758	No
38	GOM_TRA_1PNPDE20041226_022250_000000372033_00175_14758_0019.N1	26-DEC-2004 02:22:50	Bright	37.000	146	25Eta Tau	2.8730	15200.	74	14758	No
39	GOM_TRA_1PNPDE20041226_022500_000000422033_00175_14758_0020.N1	26-DEC-2004 02:25:00	Bright	41.500	114	3Iot Aur	2.6930	4600.0	83	14758	No
40	GOM_TRA_1PNPDE20041226_022703_000000382033_00175_14758_0021.N1	26-DEC-2004 02:27:03	Bright	37.500	149	45Eps Per	2.8880	30000.	75	14758	No
41	GOM_TRA_1PNPDE20041226_024523_000000402033_00175_14758_0000.N1	26-DEC-2004 02:45:23	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	14758	No
42	GOM_TRA_1PNPDE20041226_024902_000000402033_00175_14758_0001.N1	26-DEC-2004 02:49:02	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	14758	No
43	GOM_TRA_1PNPDE20041226_025048_000000392033_00175_14758_0002.N1	26-DEC-2004 02:50:48	Bright	38.500	69	33Gam Dra	2.2310	3800.0	77	14758	No
44	GOM_TRA_1PNPDE20041226_025229_000000442033_00175_14758_0003.N1	26-DEC-2004 02:52:29	Bright	44.000	39	85Eta UMa	1.8540	24000.	88	14758	No
45	GOM_TRA_1PNPDE20041226_025615_000000412033_00175_14758_0004.N1	26-DEC-2004 02:56:15	Bright	40.500	180	27Gam Boo	3.0400	8000.0	81	14758	No
46	GOM_TRA_1PNPDE20041226_025944_000000582033_00175_14758_0005.N1	26-DEC-2004 02:59:44	Bright	58.000	83		2.3780	11000.	116	14758	No

47	GOM_TRA_1PNPDE20041226_030331_000000522033_00175_14758_0006.N1	26-DEC-2004 03:03:31	Bright	51.500	111	8Eta Boo	2.6800	6000.0	103	14758	No
48	GOM_TRA_1PNPDE20041226_030847_000000782033_00175_14758_0007.N1	26-DEC-2004 03:08:47	Twilight	77.500	138	47Eps Vir	2.8280	4700.0	155	14758	No
49	GOM_TRA_1PNPDE20041226_031215_000000452033_00175_14758_0008.N1	26-DEC-2004 03:12:15	Twilight	44.500	122	9Alp2Lib	2.7470	9700.0	89	14758	No
50	GOM_TRA_1PNPDE20041226_031446_000000602033_00175_14758_0009.N1	26-DEC-2004 03:14:46	Twilight	59.500	15	67Alp Vir	0.97600	28000.	119	14758	No

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



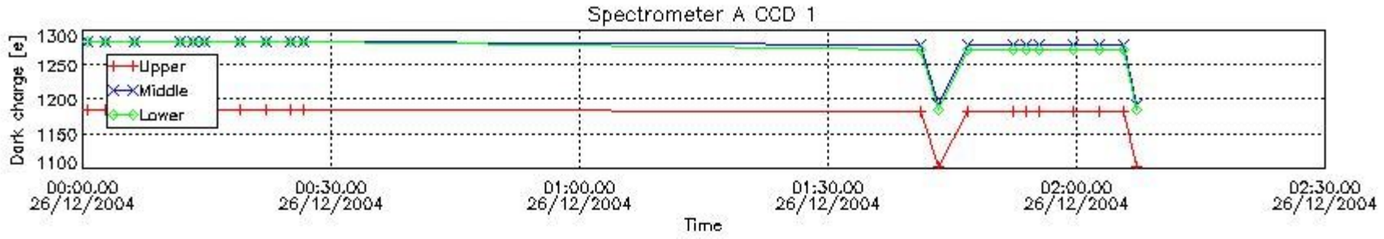


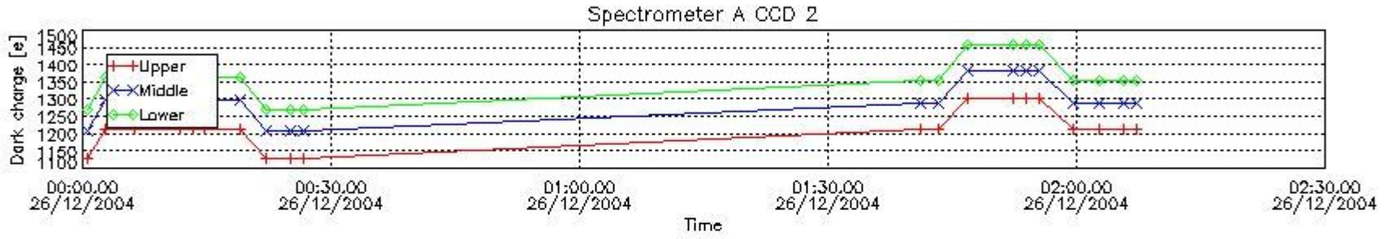
4. Overview of dark signal processing per product

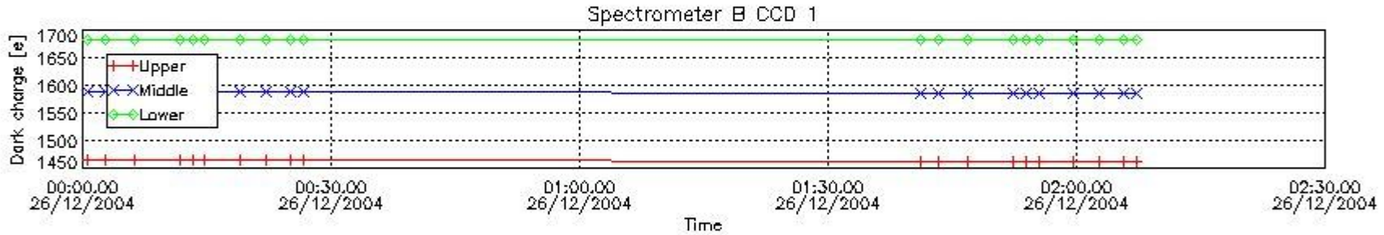
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

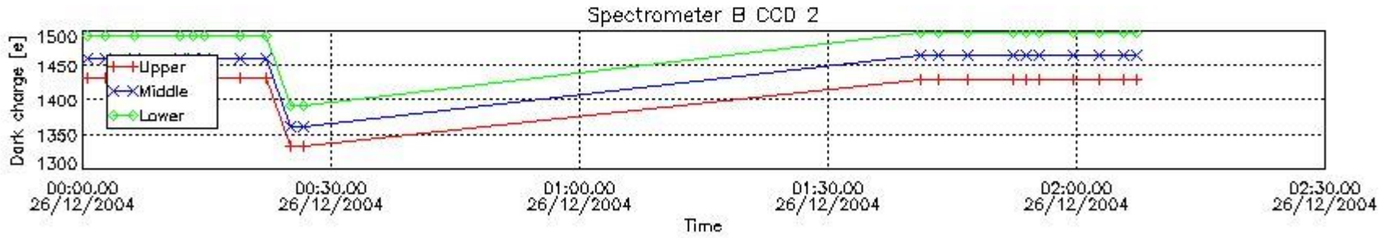
4.1 All products used the DSA observation for the DC computation

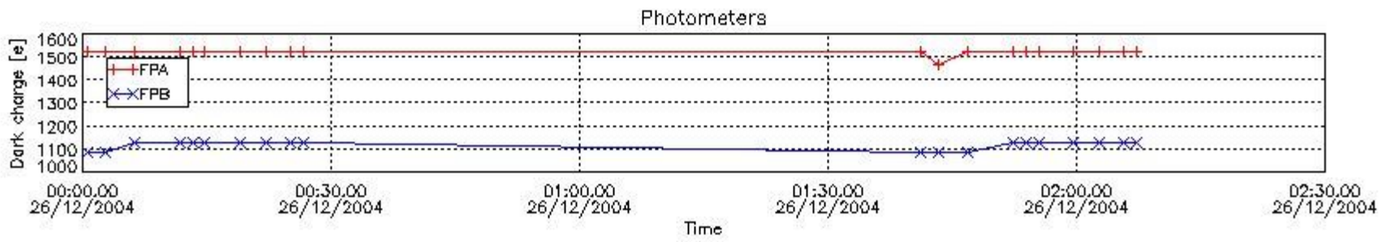
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











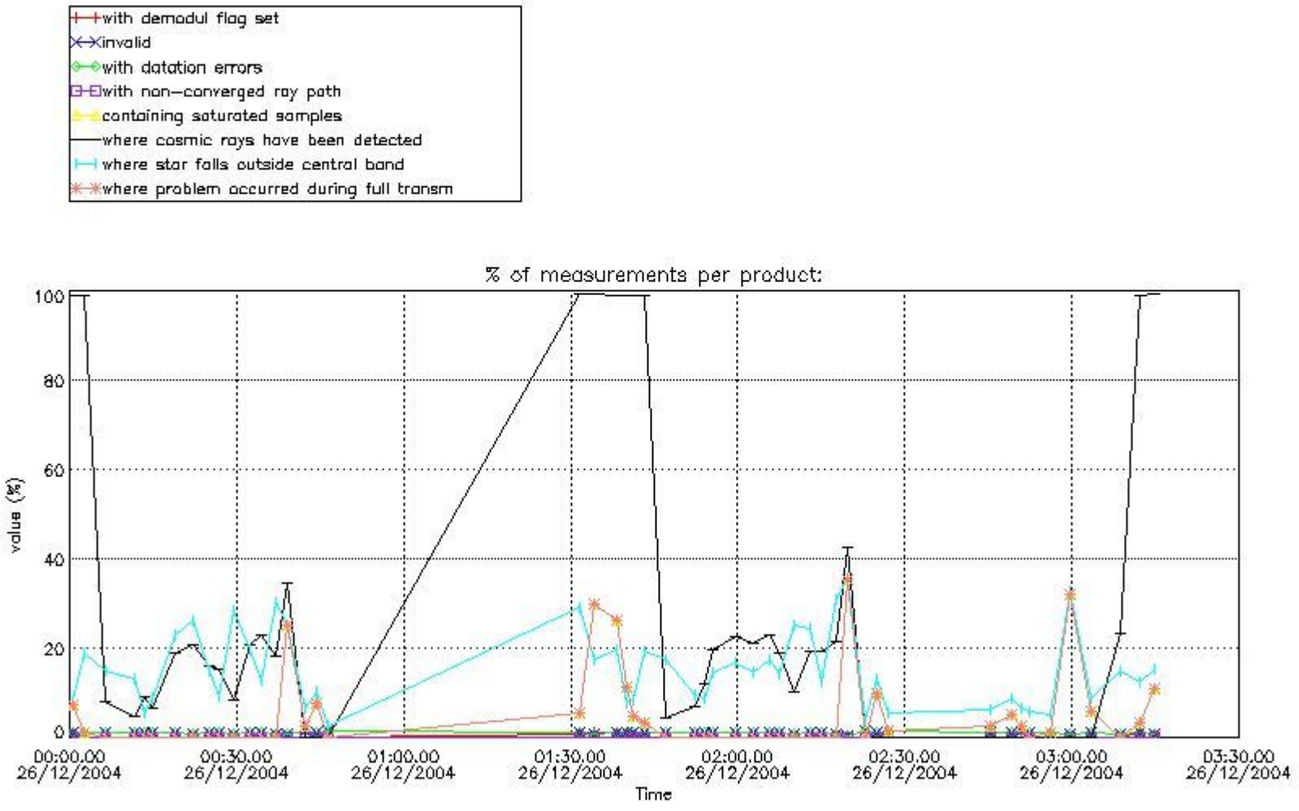
5. Demodulation flag and quality information monitoring

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:

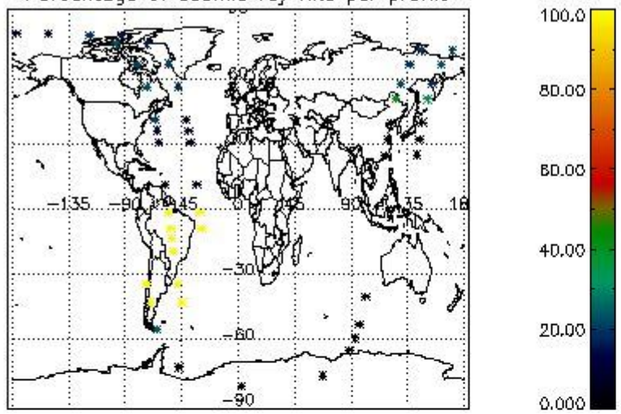
At least one measurement with demodulation flag set:	28.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

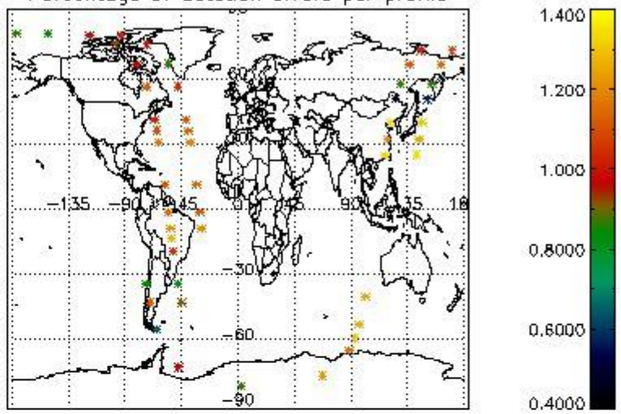


5.3 Plot quality information per product (world map)

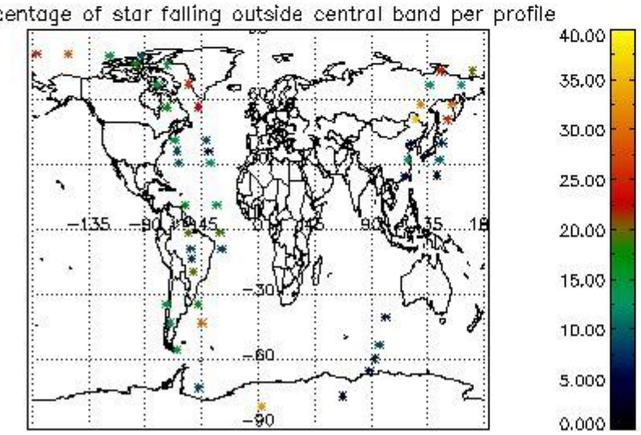
Percentage of cosmic ray hits per profile



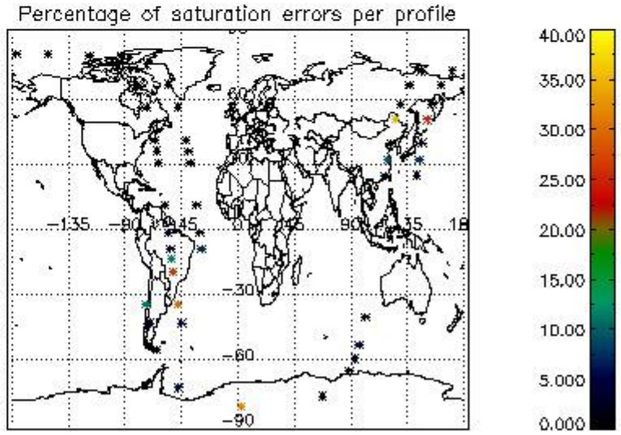
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



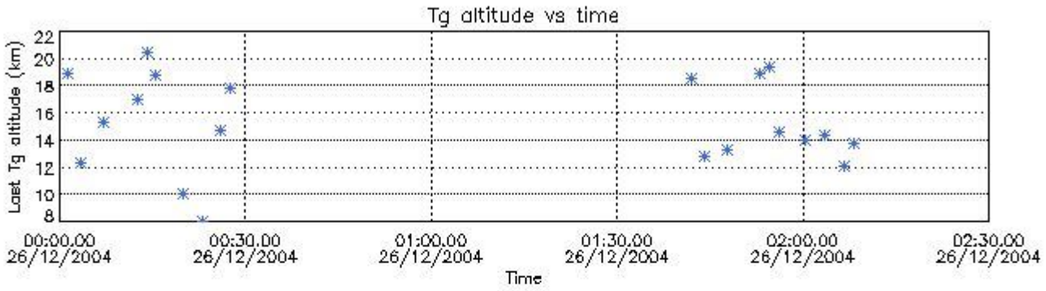
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

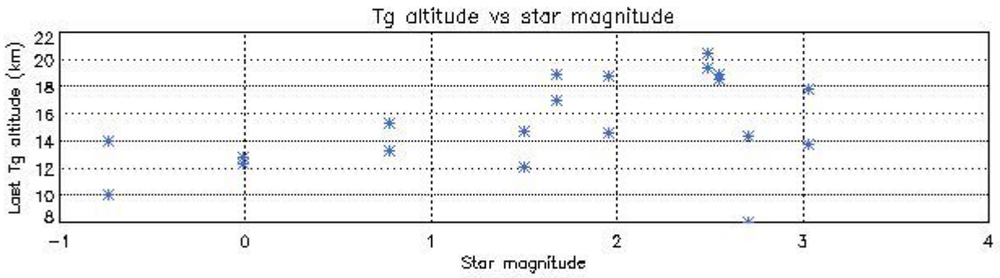
6.1 Statistics on tangent altitude lost:

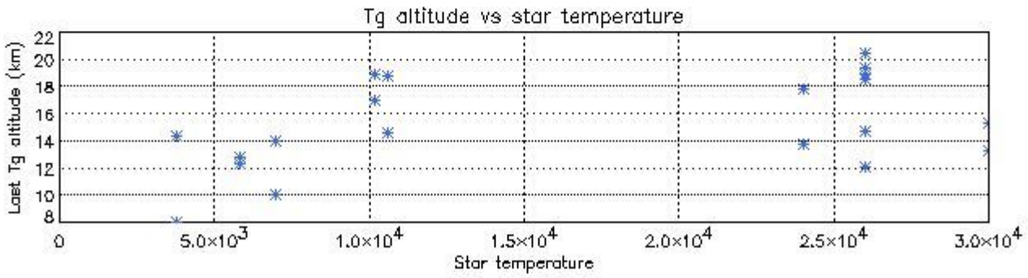
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.239	15.387	12.268
St. deviation:	3.3732	6.4540	4.2122
Maximum:	20.441	23.584	19.451
Minimum:	8.0208	4.2351	6.2175
Number of data:	20.000	21.000	9.0000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

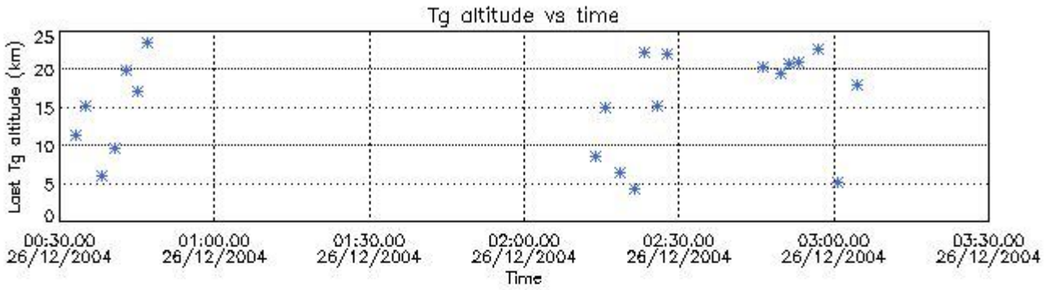


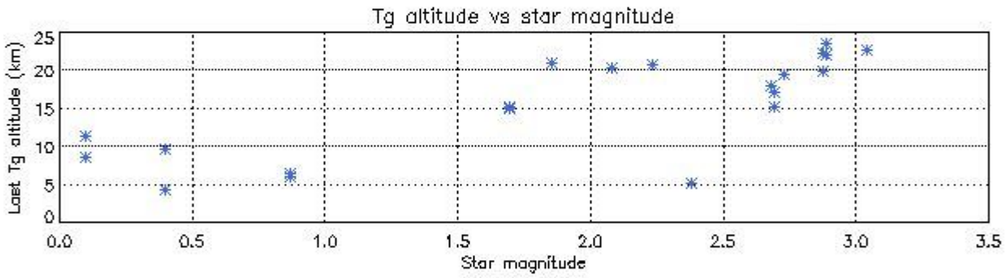


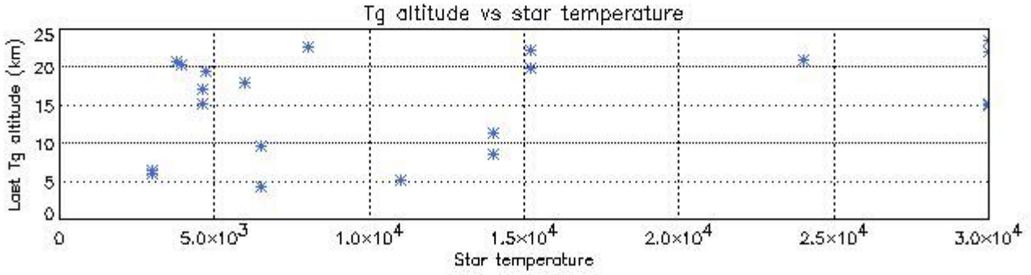


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

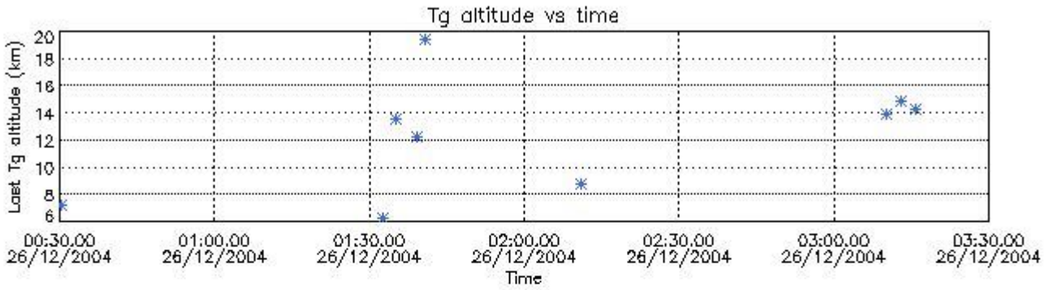


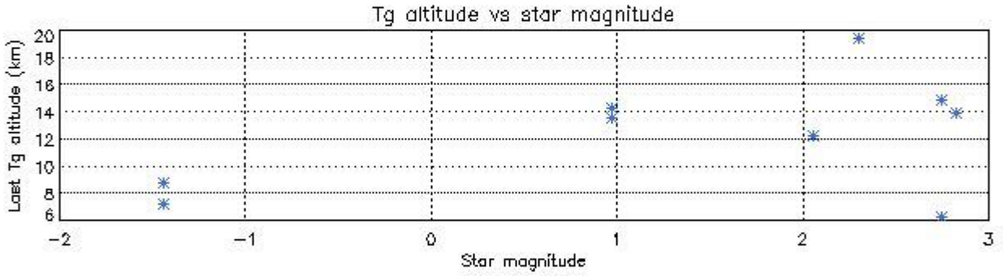


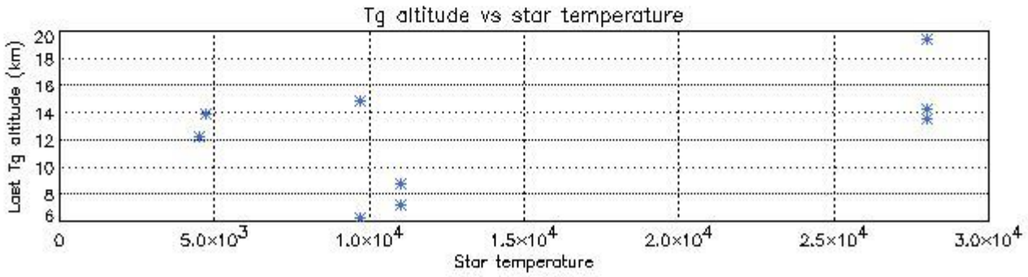


6.3 Plot for TWILIGHT limb products

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

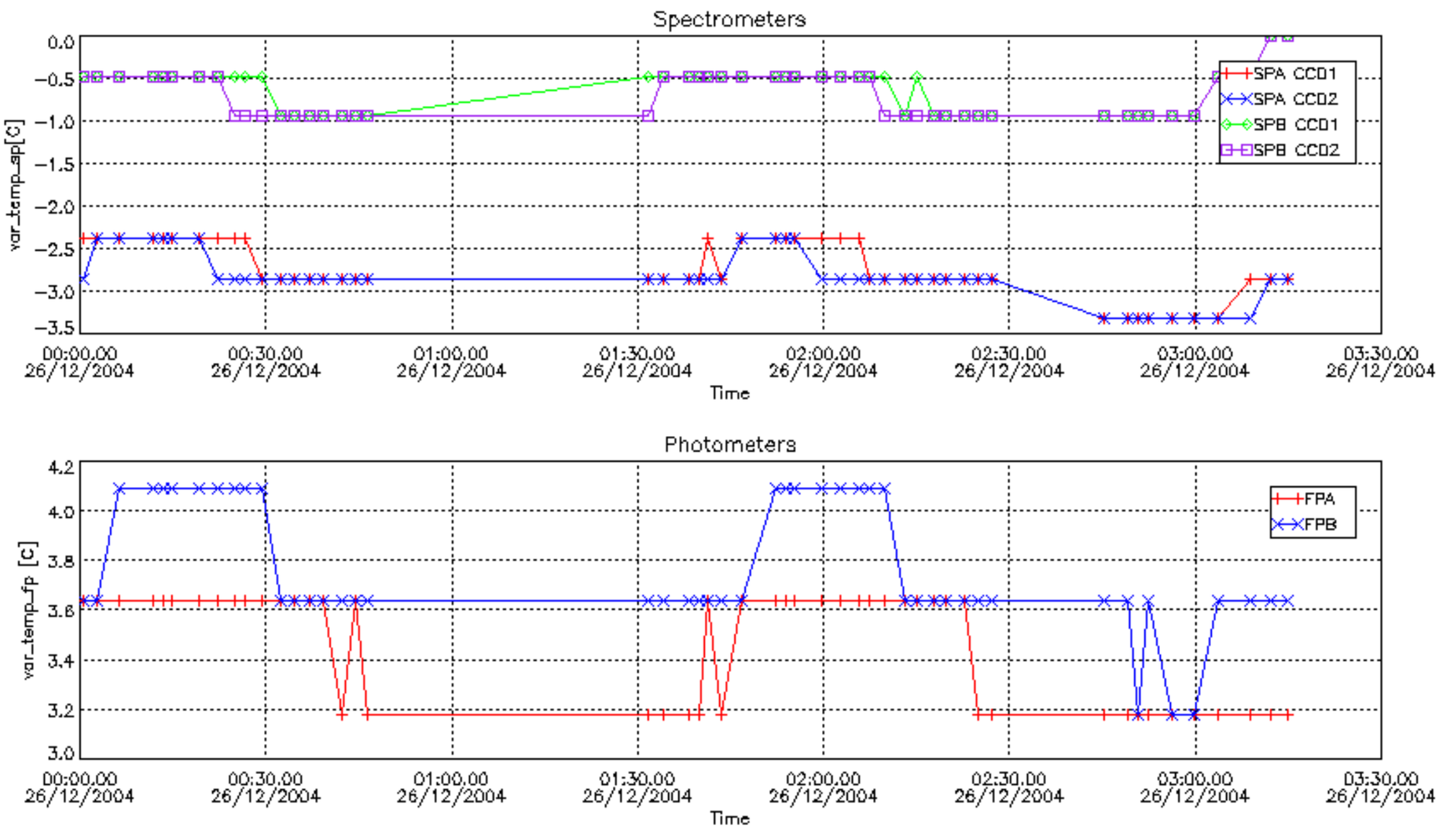
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.
Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1462.1	1446.9	1461.5	1447.4
St. deviation:	5.3718	8.5109	6.5544	9.0905
Maximum:	1530.0	1506.0	1516.0	1520.0
Minimum:	1423.0	1397.0	1437.0	1417.0
Number of data:	24700.	24700.	24200.	24200.

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	26-DEC-2004 00:00:39
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041217_142407_20041216_000000_20100101_000000	1	26-DEC-2004 00:00:39
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	26-DEC-2004 00:00:39
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-DEC-2004 00:00:39
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	26-DEC-2004 00:00:39
ECMWF_FILE	AUX_ECF_AXNECM20041225_072638_20041225_210000_20041226_090000	1	26-DEC-2004 00:00:39
OPTIONAL_ECMWF_FILE	NOT USED	1	26-DEC-2004 00:00:39
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041225_235602_20041225_190124_20050104_202736	1	26-DEC-2004 00:00:39


Spectrometers
var_temp_sp[C]
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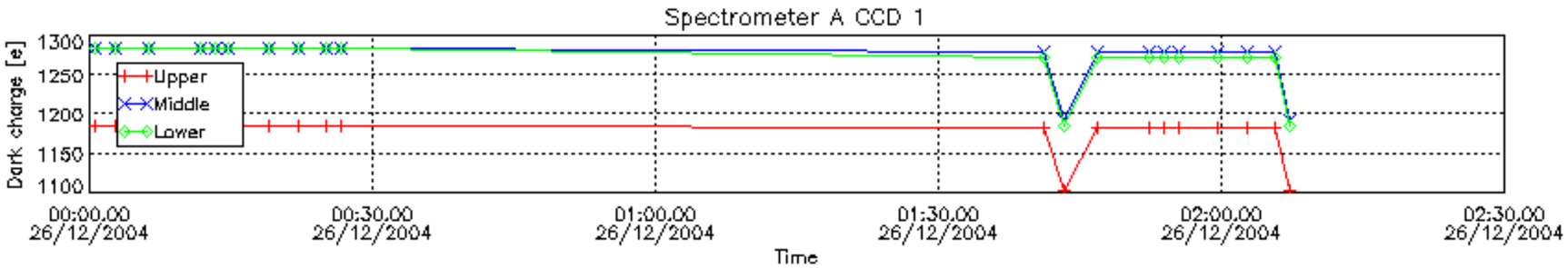
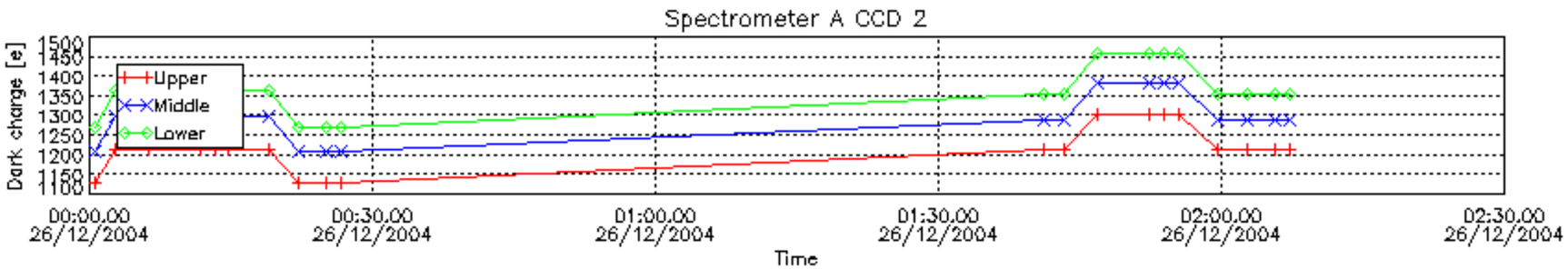
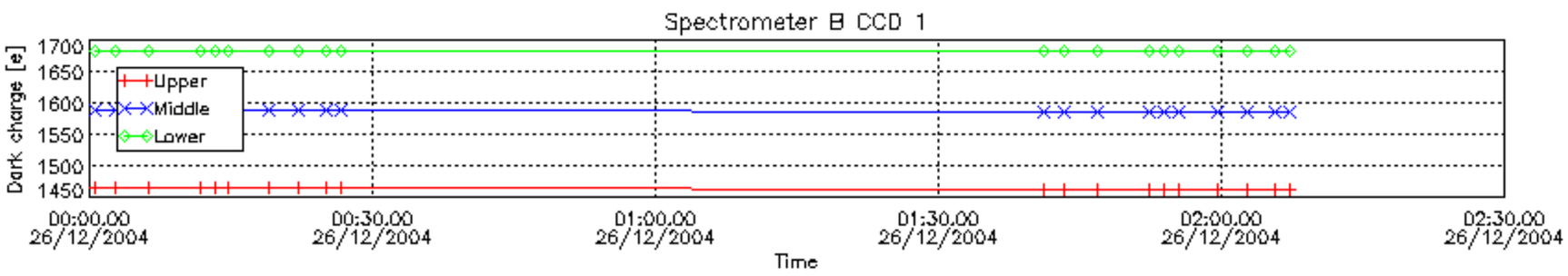
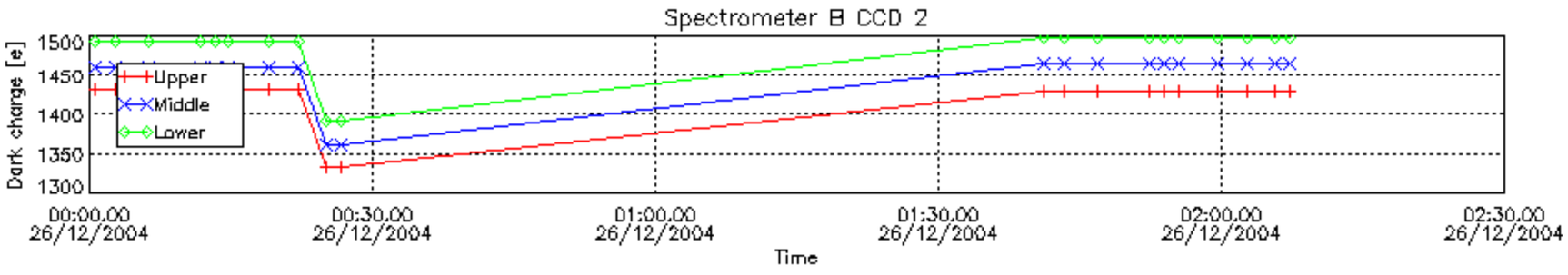
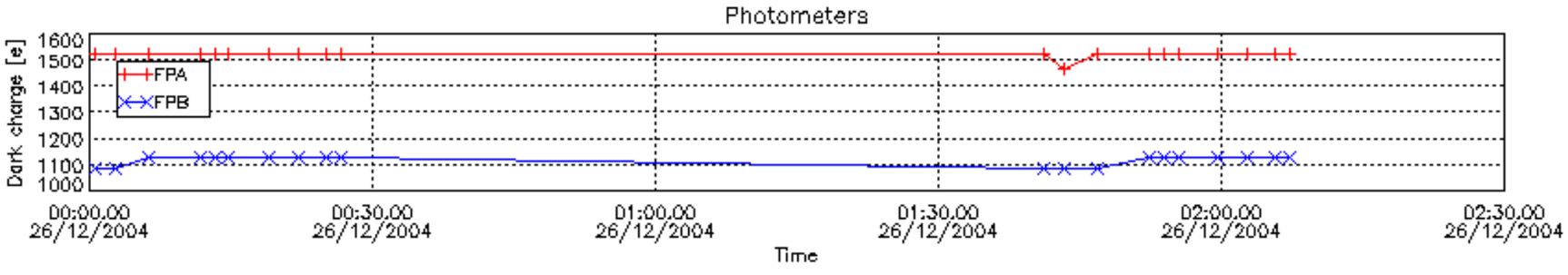
−0.5
−1.0
−1.5
−2.0
−2.5
−3.0
−3.5
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00 26/12/2004
00:30.00 26/12/2004
01:00.00 26/12/2004
01:30.00 26/12/2004
02:00.00 26/12/2004
02:30.00 26/12/2004
03:00.00 26/12/2004
03:30.00 26/12/2004
Time
Photometers
var_temp_fp [C]
4.2
4.0
3.8
3.6
3.4
3.2
3.0
FPA
FPB
00:00.00 26/12/2004
00:30.00 26/12/2004
01:00.00 26/12/2004
01:30.00 26/12/2004
02:00.00 26/12/2004
02:30.00 26/12/2004
03:00.00 26/12/2004
03:30.00 26/12/2004
Time


Spectrometer A CCD 1
Dark charge [e]
1300
1250
1200
1150
1100
Upper
Middle
Lower
00:00.00
26/12/2004
00:30.00
26/12/2004
01:00.00
26/12/2004
01:30.00
26/12/2004
02:00.00
26/12/2004
02:30.00
26/12/2004
Time


Spectrometer A CCD 2
Dark charge [e]
1500
1450
1400
1350
1300
1250
1200
1150
1100
Upper
Middle
Lower
00:00.00
26/12/2004
00:30.00
26/12/2004
01:00.00
26/12/2004
01:30.00
26/12/2004
02:00.00
26/12/2004
02:30.00
26/12/2004
Time


Spectrometer B CCD 1
Dark charge [e]
1700
1650
1600
1550
1500
1450
Upper
Middle
Lower
00:00.00
26/12/2004
00:30.00
26/12/2004
01:00.00
26/12/2004
01:30.00
26/12/2004
02:00.00
26/12/2004
02:30.00
26/12/2004
Time


Spectrometer B CCD 2
Dark charge [e]
1500
1450
1400
1350
1300
Upper
Middle
Lower
00:00.00
26/12/2004
00:30.00
26/12/2004
01:00.00
26/12/2004
01:30.00
26/12/2004
02:00.00
26/12/2004
02:30.00
26/12/2004
Time


Photometers
Dark charge [e]
1600
1500
1400
1300
1200
1100
1000
FPA
FPB
00:00.00
26/12/2004
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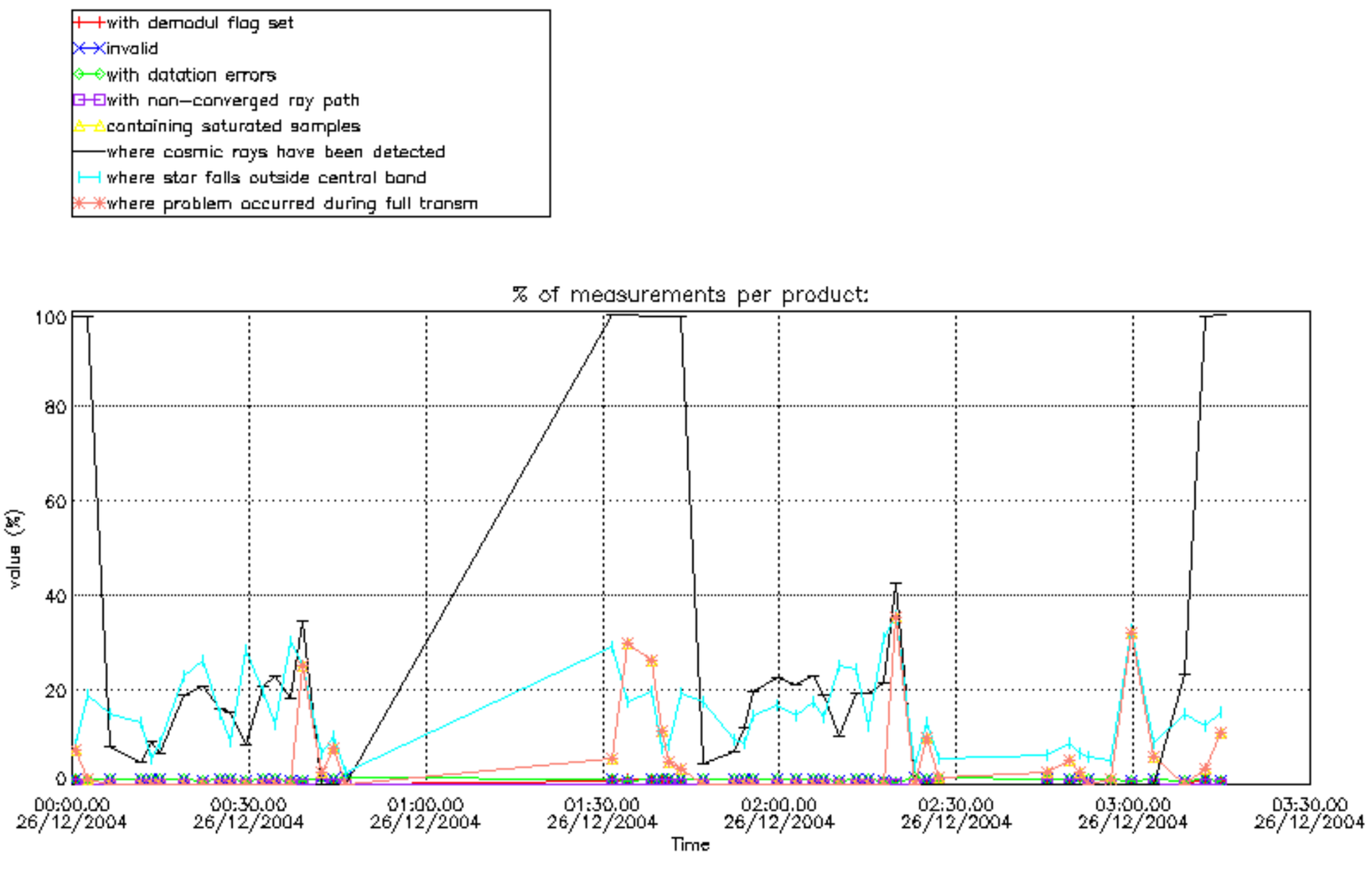
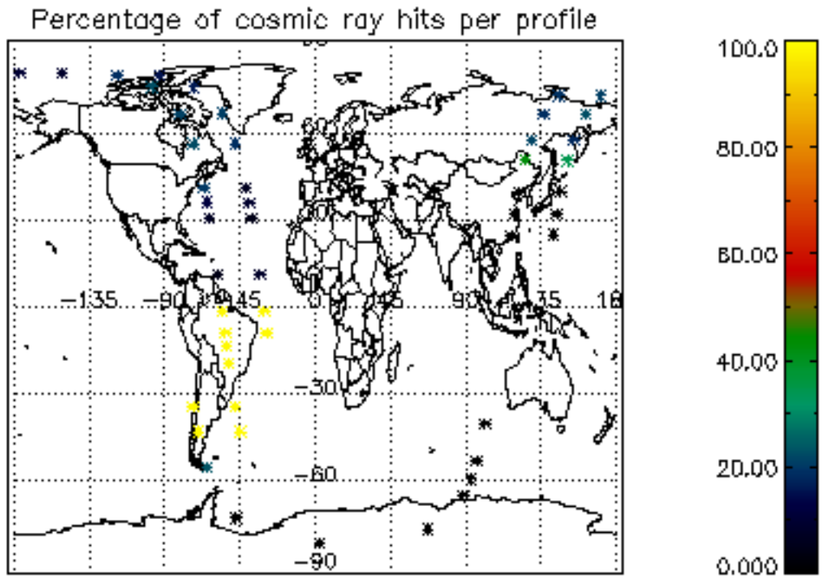
26/12/2004
01:00.00
26/12/2004
01:30.00
26/12/2004
02:00.00
26/12/2004
02:30.00
26/12/2004
Time


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:
100
80
60
40
20
0
value (%)
00:00.00 26/12/2004
00:30.00 26/12/2004
01:00.00 26/12/2004
01:30.00 26/12/2004
02:00.00 26/12/2004
02:30.00 26/12/2004
03:00.00 26/12/2004
03:30.00 26/12/2004
Time


Percentage of cosmic ray hits per profile
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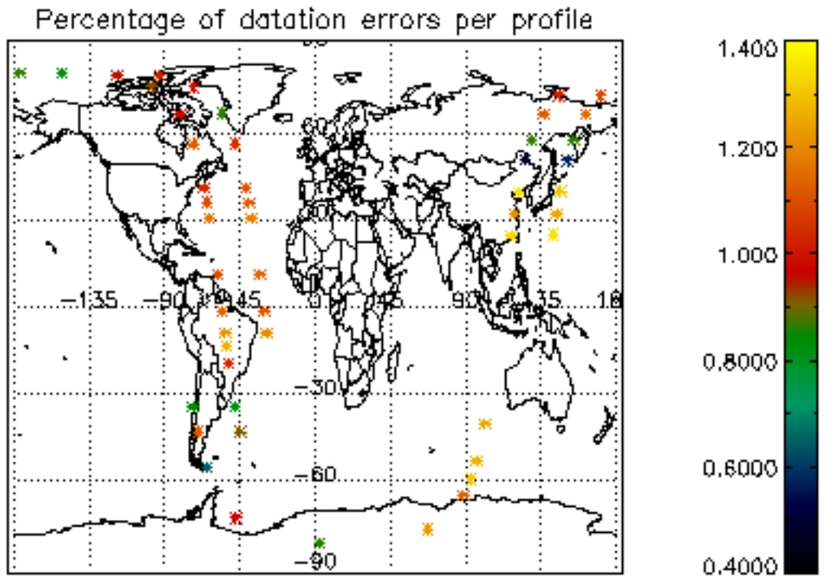
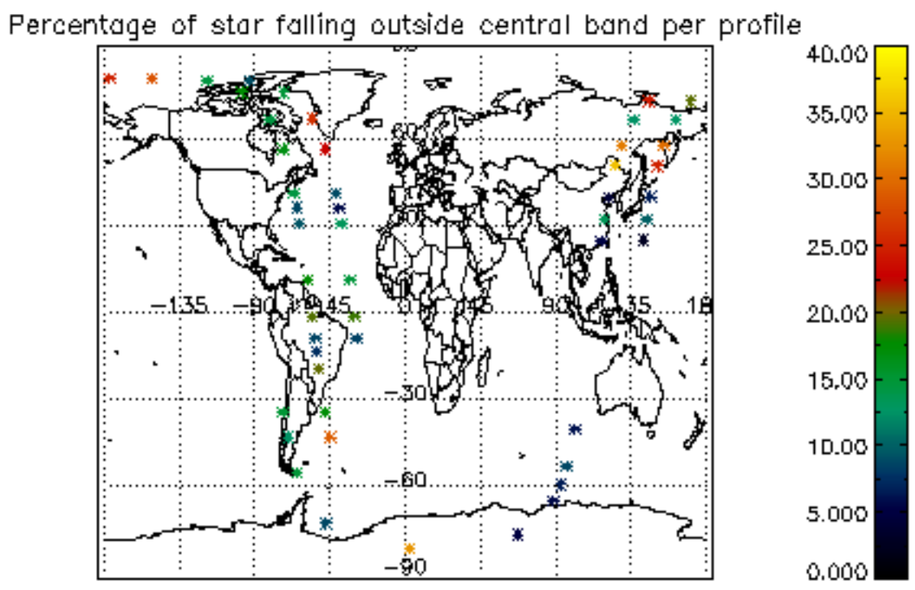
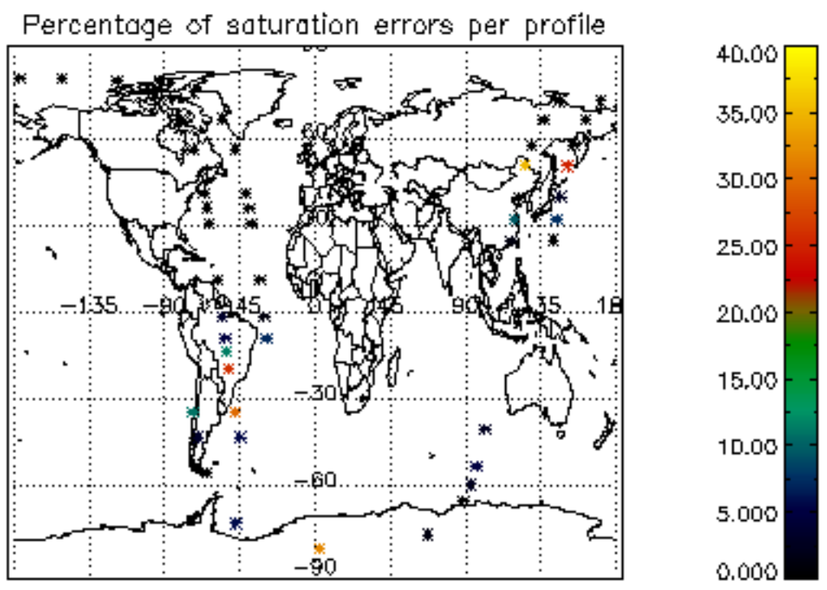
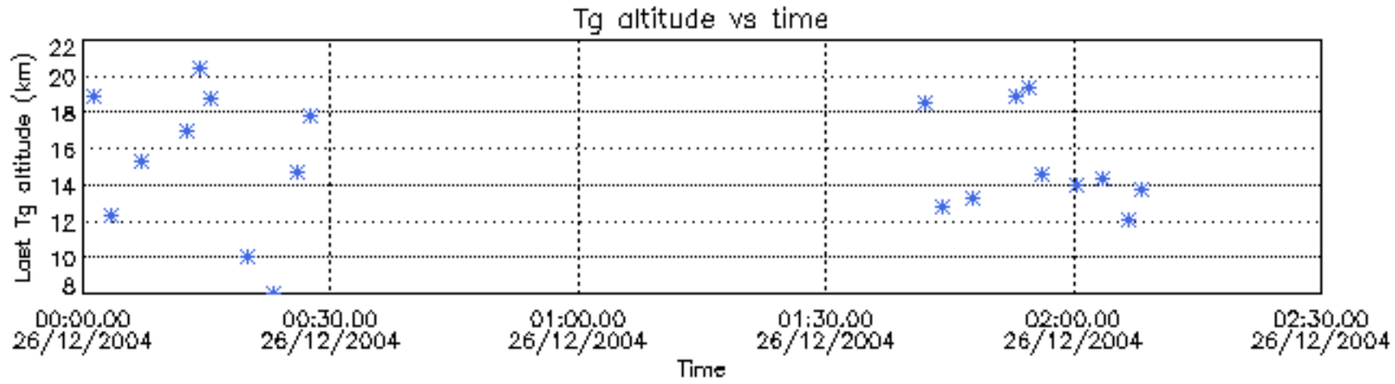
80.00
60.00
40.00
20.00
0.000
−135
−90
−30
−60
−90

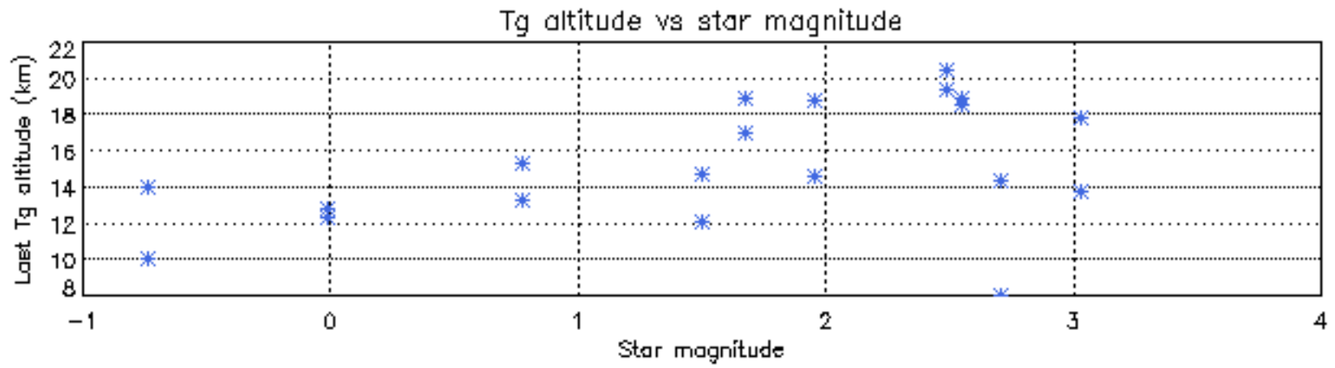

Percentage of datation errors per profile
1.400
1.200
1.000
0.8000
0.6000
0.4000
−135
−90
−30
−60
−90

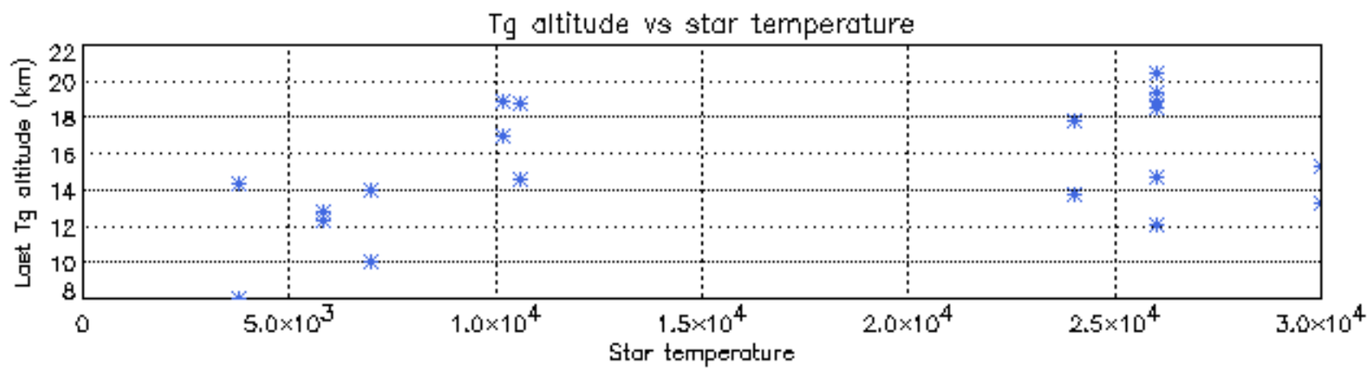

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90


Percentage of saturation errors per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90

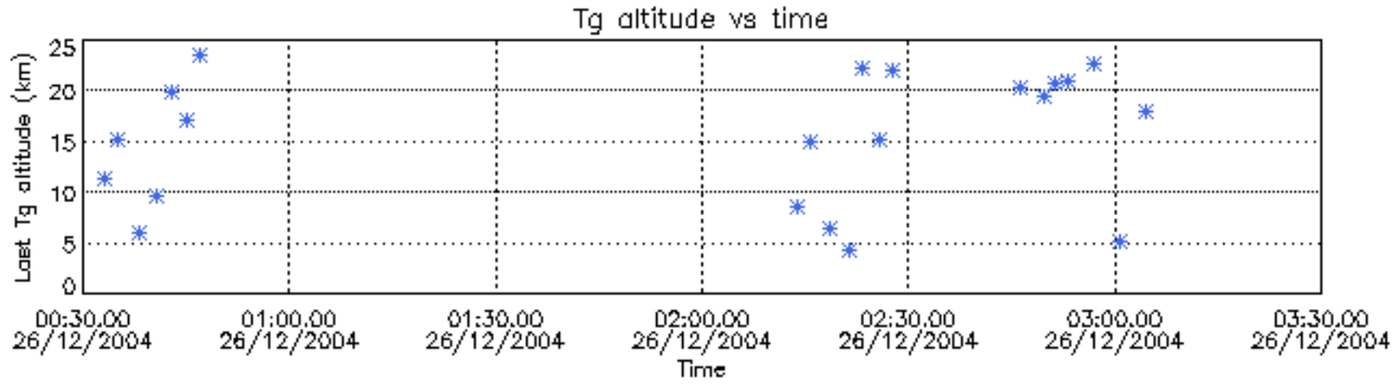
Tangent altitude at which the star is lost

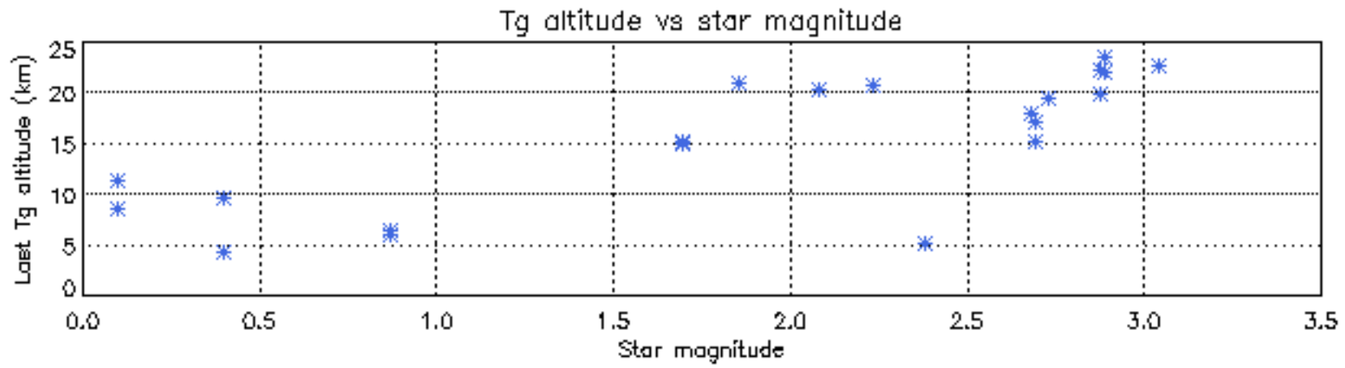


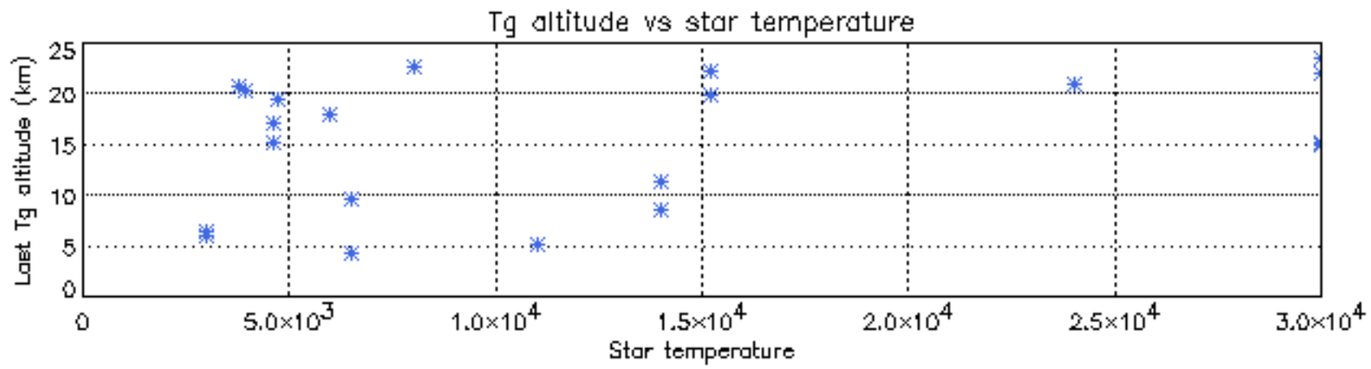




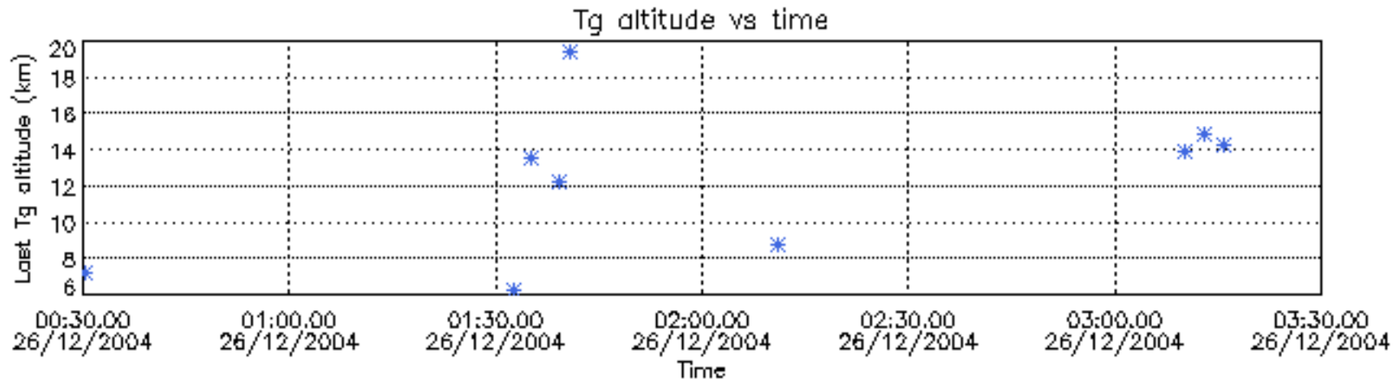
Tangent altitude at which the star is lost

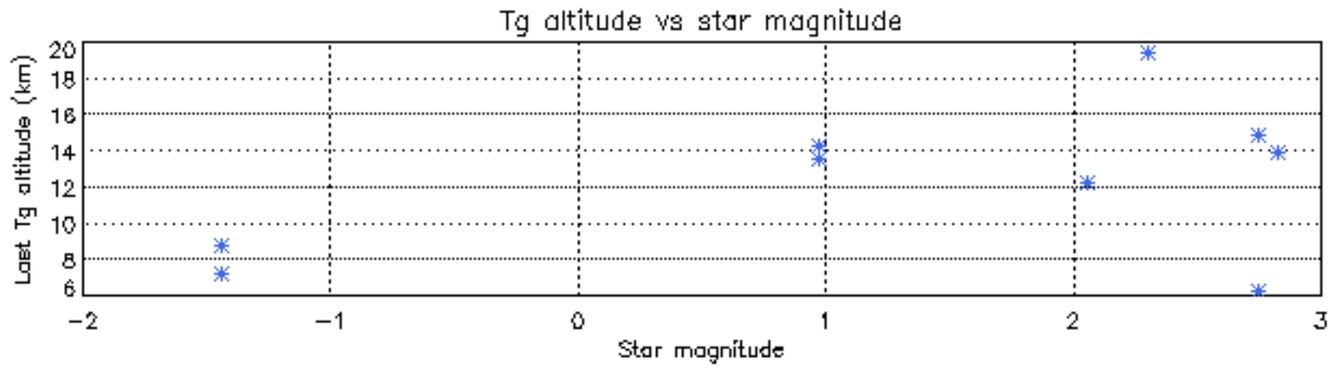


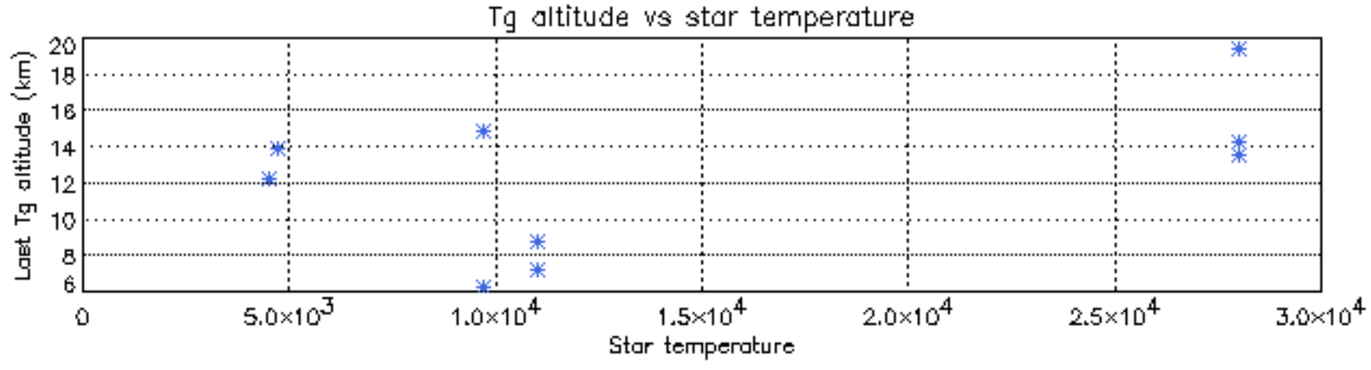




Tangent altitude at which the star is lost







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   2; -173.6; 01-DEC-2004 01:26:36; Dark ; 41.5;   77;   Eps Cen ; 2.30; 28000;occ; 83;   0;14399
   3; -74.8; 01-DEC-2004 01:28:15; Dark ; 49.5;   10;   Bet Cen ; 0.61; 28000;occ; 99;   0;14399
   4;   41.1; 01-DEC-2004 01:30:11; Dark ; 45.0;   12;   Alp1Cru ; 0.77; 30000;occ; 90;   0;14400
   5; 205.3; 01-DEC-2004 01:32:55; Dark ; 40.5; 124;   The Car ; 2.76; 30000;occ; 81;   0;14400
   6; 357.9; 01-DEC-2004 01:35:28; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;14400
   7; 483.9; 01-DEC-2004 01:37:34; Dark ; 48.0;   41;   Eps Car ; 1.86; 4100;occ; 96;   0;14400
   8; 607.3; 01-DEC-2004 01:39:37; Dark ; 55.0;   34;   Gam2Vel ; 1.79; 23000;occ; 110;   0;14400
   9; 806.9; 01-DEC-2004 01:42:57; Dark ; 56.5;   2;   Alp Car ;-0.74; 7000;occ; 113;   0;14400
  10; 920.6; 01-DEC-2004 01:44:50; Dark ; 64.5; 117;   Pi Pup ; 2.71; 3800;occ; 129;   0;14400
  11; 1148.0; 01-DEC-2004 01:48:38; Dark ; 71.0;   23; 21Eps CMa ; 1.50; 26000;occ; 142;   0;14400
  12; 1277.7; 01-DEC-2004 01:50:47; Dark ; 73.0; 179; 24Omi2CMa ; 3.03; 24000;occ; 146;   0;14400
  13; 1529.6; 01-DEC-2004 01:54:59; Dark ; 107.0;   1; 9Alp CMa ;-1.44; 11000;occ; 214;   0;14400
  14; 1749.7; 01-DEC-2004 01:58:39; Dark ; 68.0;   7; 19Bet Ori ; 0.10; 14000;occ; 136;   0;14400
  15; 1929.4; 01-DEC-2004 02:01:39; Dark ; 63.5;   30; 46Eps Ori ; 1.69; 30000;occ; 127;   0;14400
  16; 2093.2; 01-DEC-2004 02:04:23; Dark ; 63.5;   27; 24Gam Ori ; 1.64; 26000;occ; 127;   0;14400
  17; 2228.0; 01-DEC-2004 02:06:38; Bright; 61.5;   13; 87Alp Tau ; 0.87; 3800;occ; 123;   0;14400
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  19; 2466.9; 01-DEC-2004 02:10:36; Bright; 41.5; 150; 44Zet Per ; 2.89; 28000;occ; 83;   0;14400
  20; 2600.6; 01-DEC-2004 02:12:50; Bright; 42.0;   79; 26Bet Per ; 2.31; 13100;occ; 84;   0;14400
  21; 2734.5; 01-DEC-2004 02:15:04; Bright; 39.0; 175; 39Del Per ; 3.01; 19400;occ; 78;   0;14400
  22; 2815.2; 01-DEC-2004 02:16:25; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75;   0;14400
  23; 2957.2; 01-DEC-2004 02:18:47; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75;   0;14400
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   2;-2217.7; 01-DEC-2004 02:33:08; Bright; 46.5;   36; 50Alp UMa ; 1.80; 6300;occ; 93;   0;14400
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   4;-2024.4; 01-DEC-2004 02:36:21; Bright; 43.0;   32; 77Eps UMa ; 1.76; 11000;occ; 86;   0;14400
   5;-1898.3; 01-DEC-2004 02:38:27; Bright; 37.0;   39; 85Eta UMa ; 1.85; 24000;occ; 74;   0;14400
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   7;-1545.5; 01-DEC-2004 02:44:20; Bright; 39.5;   83;   ; 2.38; 11000;occ; 79;   0;14400
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   9;-1171.0; 01-DEC-2004 02:50:35; Bright; 74.5;   96; 68Del Leo ; 2.56; 9300;occ; 149;   0;14400
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  11; -629.1; 01-DEC-2004 02:59:36; Dark ; 46.5; 163; 7Del Crv ; 2.94; 11000;occ; 93;   0;14400
  12; -531.4; 01-DEC-2004 03:01:14; Dark ; 48.0; 106; 9Bet Crv ; 2.65; 5600;occ; 96;   0;14400
  13; -413.6; 01-DEC-2004 03:03:12; Dark ; 40.0; 123;   Iot Cen ; 2.75; 10200;occ; 80;   0;14400
  14; -172.8; 01-DEC-2004 03:07:13; Dark ; 39.5;   77;   Eps Cen ; 2.30; 28000;occ; 79;   0;14400
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  19; 608.3; 01-DEC-2004 03:20:14; Dark ; 59.5;   34;   Gam2Vel ; 1.79; 23000;occ; 119;   0;14401
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  22; 1148.8; 01-DEC-2004 03:29:14; Dark ; 69.0;   23; 21Eps CMa ; 1.50; 26000;occ; 138;   0;14401
  23; 1277.8; 01-DEC-2004 03:31:23; Dark ; 73.5; 179; 24Omi2CMa ; 3.03; 24000;occ; 147;   0;14401
  24; 1529.8; 01-DEC-2004 03:35:35; Dark ; 88.5;   1; 9Alp CMa ;-1.44; 11000;occ; 177;   0;14401
  25; 1747.9; 01-DEC-2004 03:39:13; Dark ; 65.0;   7; 19Bet Ori ; 0.10; 14000;occ; 130;   0;14401
  26; 1929.1; 01-DEC-2004 03:42:15; Dark ; 64.0;   30; 46Eps Ori ; 1.69; 30000;occ; 128;   0;14401
  27; 2092.4; 01-DEC-2004 03:44:58; Dark ; 63.0;   27; 24Gam Ori ; 1.64; 26000;occ; 126;   0;14401
  28; 2226.0; 01-DEC-2004 03:47:12; Bright; 57.5;   13; 87Alp Tau ; 0.87; 3800;occ; 115;   0;14401
  29; 2325.2; 01-DEC-2004 03:48:51; Bright; 40.0; 146; 25Eta Tau ; 2.87; 15200;occ; 80;   0;14401
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  32; 2734.9; 01-DEC-2004 03:55:40; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76;   0;14401
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  13;-2338.1; 01-DEC-2004 10:54:07; Bright;  40.5;   60;  7Bet UMi  ; 2.08;  3950;occ;  81;   0;14405
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  30;  378.6; 01-DEC-2004 13:20:00; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14407
  31;  490.2; 01-DEC-2004 13:21:51; Dark  ;  46.5;   41;   Eps Car  ; 1.86;  4100;occ;  93;   0;14407
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23; 2601.9; 02-DEC-2004 00:00:39; Bright; 38.0;   79; 26Bet Per ; 2.31; 13100;occ; 76;   0;14413
24; 2731.8; 02-DEC-2004 00:02:48; Bright; 38.5; 175; 39Del Per ; 3.01; 19400;occ; 77;   0;14413
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26; 2959.4; 02-DEC-2004 00:06:36; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76;   0;14413
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29; 3813.5; 02-DEC-2004 00:20:50; Bright; 45.5;   36; 50Alp UMa ; 1.80; 6300;occ; 91;   0;14413
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31; 4010.8; 02-DEC-2004 00:24:07; Bright; 41.5;   32; 77Eps UMa ; 1.76; 11000;occ; 83;   0;14413
32; 4138.2; 02-DEC-2004 00:26:15; Bright; 39.5;   39; 85Eta UMa ; 1.85; 24000;occ; 79;   0;14413
33; 4313.9; 02-DEC-2004 00:29:11; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73;   0;14413
34; 4494.4; 02-DEC-2004 00:32:11; Bright; 37.5;   83;   ; 2.38; 11000;occ; 75;   0;14413
35; 4647.1; 02-DEC-2004 00:34:44; Bright; 37.0;   3; 16Alp Boo ;-0.05; 4250;occ; 74;   0;14413
36; 4876.5; 02-DEC-2004 00:38:33; Bright; 76.0;   96; 68Del Leo ; 2.56; 9300;occ; 152;   0;14413
37; 5128.9; 02-DEC-2004 00:42:45; Bright; 46.5; 121; 29Gam Vir ; 2.74; 7200;occ; 93;   0;14413
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13;-2337.9; 01-DEC-2004 15:55:55; Bright; 41.0;   60; 7Bet UMi ; 2.08; 3950;occ; 82;   0;14408
14;-2220.7; 01-DEC-2004 15:57:52; Bright; 41.0;   36; 50Alp UMa ; 1.80; 6300;occ; 82;   0;14408
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23; -569.7; 01-DEC-2004 16:25:23; Dark ; 49.5; 100; 4Gam Crv ; 2.58; 13100;occ; 99;   0;14408
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26; -171.7; 01-DEC-2004 16:32:01; Dark ; 39.5;   77;   Eps Cen ; 2.30; 28000;occ; 79;   0;14408
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28;   44.1; 01-DEC-2004 16:35:37; Dark ; 41.0;   12;   Alp1Cru ; 0.77; 30000;occ; 82;   0;14409
29; 209.7; 01-DEC-2004 16:38:23; Dark ; 40.0; 124;   The Car ; 2.76; 30000;occ; 80;   0;14409
30; 384.4; 01-DEC-2004 16:41:17; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;14409
31; 492.3; 01-DEC-2004 16:43:05; Dark ; 45.5;   41;   Eps Car ; 1.86; 4100;occ; 91;   0;14409

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  16;-2024.2; 01-DEC-2004 16:01:09; Bright;  41.5;   32; 77Eps UMa  ; 1.76; 11000;occ;  83;   0;14408
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  27;  -74.0; 01-DEC-2004 16:33:39; Dark  ;  46.5;   10;   Bet Cen  ; 0.61; 28000;occ;  93;   0;14408
  28;   44.1; 01-DEC-2004 16:35:37; Dark  ;  41.0;   12;   Alp1Cru  ; 0.77; 30000;occ;  82;   0;14409
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  31;  492.3; 01-DEC-2004 16:43:05; Dark  ;  45.5;   41;   Eps Car  ; 1.86;  4100;occ;  91;   0;14409
  32;  615.4; 01-DEC-2004 16:45:08; Dark  ;  56.0;   34;   Gam2Vel  ; 1.79; 23000;occ; 112;   0;14409
  33;  811.7; 01-DEC-2004 16:48:25; Dark  ;  56.5;    2;   Alp Car  ;-0.74;  7000;occ; 113;   0;14409
  34;  926.4; 01-DEC-2004 16:50:19; Dark  ;  67.0;  117;   Pi  Pup  ; 2.71;  3800;occ; 134;   0;14409
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   2; -492.7; 04-DEC-2004 21:34:13; Dark  ;  46.0;  106;  9Bet Crv  ; 2.65;  5600;occ;  92;   0;14454
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   7;   59.9; 04-DEC-2004 21:43:25; Dark  ;  41.5;   12;   Alp1Cru  ; 0.77; 30000;occ;  83;   0;14455
   8;  285.9; 04-DEC-2004 21:47:11; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14455
   9;  394.4; 04-DEC-2004 21:49:00; Dark  ;  41.0;   29;   Bet Car  ; 1.67; 10200;occ;  82;   0;14455
  10;  519.8; 04-DEC-2004 21:51:05; Dark  ;  46.0;   41;   Eps Car  ; 1.86;  4100;occ;  92;   0;14455
  11;  654.2; 04-DEC-2004 21:53:19; Dark  ;  51.5;   34;   Gam2Vel  ; 1.79; 23000;occ; 103;   0;14455
  12;  835.0; 04-DEC-2004 21:56:20; Dark  ;  48.5;    2;   Alp Car  ;-0.74;  7000;occ;  97;   0;14455
  13;  962.6; 04-DEC-2004 21:58:28; Dark  ;  65.0;  117;   Pi  Pup  ; 2.71;  3800;occ; 130;   0;14455
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  15; 1307.3; 04-DEC-2004 22:04:12; Dark  ;  68.0;  179; 24Omi2CMa  ; 3.03; 24000;occ; 136;   0;14455
  16; 1535.6; 04-DEC-2004 22:08:01; Dark  ;  90.5;    1;  9Alp CMa  ;-1.44; 11000;occ; 181;   0;14455
  17; 1746.8; 04-DEC-2004 22:11:32; Dark  ;  59.5;    7; 19Bet Ori  ; 0.10; 14000;occ; 119;   0;14455
  18; 1897.0; 04-DEC-2004 22:14:02; Dark  ;  63.0;   33; 50Zet Ori  ; 1.77; 30000;occ; 126;   0;14455
  19; 2066.6; 04-DEC-2004 22:16:52; Dark  ;  59.0;   27; 24Gam Ori  ; 1.64; 26000;occ; 118;   0;14455
  20; 2211.9; 04-DEC-2004 22:19:17; Dark  ;  58.5;   13; 87Alp Tau  ; 0.87;  3800;occ; 117;   0;14455
  21; 2320.0; 04-DEC-2004 22:21:05; Bright;  39.0;  146; 25Eta Tau  ; 2.87; 15200;occ;  78;   0;14455
  22; 2458.2; 04-DEC-2004 22:23:23; Bright;  40.0;  150; 44Zet Per  ; 2.89; 28000;occ;  80;   0;14455
  23; 2602.6; 04-DEC-2004 22:25:48; Bright;  37.0;   79; 26Bet Per  ; 2.31; 13100;occ;  74;   0;14455
  24; 2725.9; 04-DEC-2004 22:27:51; Bright;  38.5;  175; 39Del Per  ; 3.01; 19400;occ;  77;   0;14455
  25; 2814.8; 04-DEC-2004 22:29:20; Bright;  37.5;  160; 23Gam Per  ; 2.93;  4700;occ;  75;   0;14455
  26; 2969.5; 04-DEC-2004 22:31:55; Bright;  35.5;  110; 37Del Cas  ; 2.68;  8900;occ;  71;   0;14455
  27; 3050.1; 04-DEC-2004 22:33:15; Bright;  38.5;   74; 11Bet Cas  ; 2.27;  6600;occ;  77;   0;14455
  28; 3420.0; 04-DEC-2004 22:39:25; Bright;  37.5;   49;  1Alp UMi  ; 1.99;  6300;occ;  75;   0;14455
  29; 3701.4; 04-DEC-2004 22:44:07; Bright;  41.5;   60;  7Bet UMi  ; 2.08;  3950;occ;  83;   0;14455
  30; 3797.5; 04-DEC-2004 22:45:43; Bright;  45.5;   36; 50Alp UMa  ; 1.80;  6300;occ;  91;   0;14455
  31; 3891.1; 04-DEC-2004 22:47:16; Bright;  47.5;   82; 48Bet UMa  ; 2.37; 10600;occ;  95;   0;14455
  32; 4005.6; 04-DEC-2004 22:49:11; Bright;  43.5;   32; 77Eps UMa  ; 1.76; 11000;occ;  87;   0;14455
  33; 4138.9; 04-DEC-2004 22:51:24; Bright;  39.5;   39; 85Eta UMa  ; 1.85; 24000;occ;  79;   0;14455
  34; 4318.5; 04-DEC-2004 22:54:24; Bright;  37.5;  180; 27Gam Boo  ; 3.04;  8000;occ;  75;   0;14455
  35; 4502.1; 04-DEC-2004 22:57:27; Bright;  37.0;   83;            ; 2.38; 11000;occ;  74;   0;14455
  36; 4656.2; 04-DEC-2004 23:00:01; Bright;  37.0;    3; 16Alp Boo  ;-0.05;  4250;occ;  74;   0;14455
  37; 4918.1; 04-DEC-2004 23:04:23; Bright;  84.0;   96; 68Del Leo  ; 2.56;  9300;occ; 168;   0;14455
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   2;  451.0; 04-DEC-2004 10:05:45; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
   3;  600.2; 04-DEC-2004 10:08:14; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
   4;  747.6; 04-DEC-2004 10:10:41; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
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   5;  960.2; 04-DEC-2004 10:14:14; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
   6; 1191.3; 04-DEC-2004 10:18:05; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
   7; 1278.7; 04-DEC-2004 10:19:32; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
   8; 1575.9; 04-DEC-2004 10:24:30; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
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   2;-4294.2; 04-DEC-2004 10:27:15; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
   3;-4118.3; 04-DEC-2004 10:30:11; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
   4;-3971.0; 04-DEC-2004 10:32:39; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
   5;-3769.9; 04-DEC-2004 10:36:00; Bright;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
   6;-3631.7; 04-DEC-2004 10:38:18; Bright;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
   7;-3543.0; 04-DEC-2004 10:39:47; Bright;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
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   9;-2962.4; 04-DEC-2004 10:49:27; Bright;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
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  12;-2535.3; 04-DEC-2004 10:56:34; Bright;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
  13;-2434.9; 04-DEC-2004 10:58:15; Bright;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
  14;-2275.5; 04-DEC-2004 11:00:54; Bright;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
  15;-2145.2; 04-DEC-2004 11:03:04; Bright;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
  16;-1919.8; 04-DEC-2004 11:06:50; Bright;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
  17;-1824.6; 04-DEC-2004 11:08:25; Bright;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
  18;-1689.6; 04-DEC-2004 11:10:40; Bright;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
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  22; -722.5; 04-DEC-2004 11:26:47; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
  23; -595.5; 04-DEC-2004 11:28:54; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
  24; -430.5; 04-DEC-2004 11:31:39; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14448
  25; -107.1; 04-DEC-2004 11:37:03; Dark  ;  59.0;    0;            ; 0.00;     0;occ; 118;   0;14448
  26;  153.6; 04-DEC-2004 11:41:23; Dark  ;  32.5;    0;            ; 0.00;     0;occ;  65;   0;14449
  27;  284.1; 04-DEC-2004 11:43:34; Dark  ;  33.5;    0;            ; 0.00;     0;occ;  67;   0;14449
  28;  600.4; 04-DEC-2004 11:48:50; Dark  ;  33.5;    0;            ; 0.00;     0;occ;  67;   0;14449
  29;  748.2; 04-DEC-2004 11:51:18; Dark  ;  39.5;    0;            ; 0.00;     0;occ;  79;   0;14449
  30;  960.3; 04-DEC-2004 11:54:50; Dark  ;  34.5;    0;            ; 0.00;     0;occ;  69;   0;14449
  31; 1191.5; 04-DEC-2004 11:58:41; Dark  ;  35.5;    0;            ; 0.00;     0;occ;  71;   0;14449
  32; 1279.0; 04-DEC-2004 12:00:09; Dark  ;  39.5;    0;            ; 0.00;     0;occ;  79;   0;14449
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   2;-4294.1; 04-DEC-2004 12:07:51; Dark  ;  35.5;    0;            ; 0.00;     0;occ;  71;   0;14449
   3;-4118.4; 04-DEC-2004 12:10:47; Dark  ;  39.5;    0;            ; 0.00;     0;occ;  79;   0;14449
   4;-3970.9; 04-DEC-2004 12:13:15; Dark  ;  33.5;    0;            ; 0.00;     0;occ;  67;   0;14449
   5;-3842.5; 04-DEC-2004 12:15:23; Bright;  34.5;    0;            ; 0.00;     0;occ;  69;   0;14449
   6;-3770.7; 04-DEC-2004 12:16:35; Bright;  51.5;    0;            ; 0.00;     0;occ; 103;   0;14449
   7;-3633.3; 04-DEC-2004 12:18:52; Bright;  44.5;    0;            ; 0.00;     0;occ;  89;   0;14449
   8;-3543.3; 04-DEC-2004 12:20:22; Bright;  36.5;    0;            ; 0.00;     0;occ;  73;   0;14449
   9;-3234.5; 04-DEC-2004 12:25:31; Bright;  43.5;    0;            ; 0.00;     0;occ;  87;   0;14449
  10;-2966.2; 04-DEC-2004 12:29:59; Bright;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14449
  11;-2797.9; 04-DEC-2004 12:32:48; Bright;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14449
  12;-2667.7; 04-DEC-2004 12:34:58; Bright;  35.5;    0;            ; 0.00;     0;occ;  71;   0;14449
  13;-2536.3; 04-DEC-2004 12:37:09; Bright;  53.5;    0;            ; 0.00;     0;occ; 107;   0;14449
  14;-2434.8; 04-DEC-2004 12:38:51; Bright;  35.5;    0;            ; 0.00;     0;occ;  71;   0;14449
  15;-2275.8; 04-DEC-2004 12:41:30; Bright;  39.5;    0;            ; 0.00;     0;occ;  79;   0;14449
  16;-2145.3; 04-DEC-2004 12:43:40; Bright;  36.5;    0;            ; 0.00;     0;occ;  73;   0;14449
  17;-1919.7; 04-DEC-2004 12:47:26; Bright;  35.5;    0;            ; 0.00;     0;occ;  71;   0;14449
  18;-1824.7; 04-DEC-2004 12:49:01; Bright;  40.5;    0;            ; 0.00;     0;occ;  81;   0;14449
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  21;-1305.3; 04-DEC-2004 12:57:40; Bright;  37.5;    0;            ; 0.00;     0;occ;  75;   0;14449
  22;-1154.5; 04-DEC-2004 13:00:11; Bright;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14449
  23; -722.2; 04-DEC-2004 13:07:23; Dark  ;  37.5;    0;            ; 0.00;     0;occ;  75;   0;14449
  24; -594.6; 04-DEC-2004 13:09:31; Dark  ;  47.5;    0;            ; 0.00;     0;occ;  95;   0;14449
  25; -429.9; 04-DEC-2004 13:12:16; Dark  ;  38.5;    0;            ; 0.00;     0;occ;  77;   0;14449
  26; -106.4; 04-DEC-2004 13:17:39; Dark  ;  36.0;    0;            ; 0.00;     0;occ;  72;   0;14449
  27;   58.6; 04-DEC-2004 13:20:24; Dark  ;  49.0;   12;   Alp1Cru  ; 0.77; 30000;occ;  98;   0;14450
  28;  284.4; 04-DEC-2004 13:24:10; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14450
  29;  392.8; 04-DEC-2004 13:25:58; Dark  ;  41.5;   29;   Bet Car  ; 1.67; 10200;occ;  83;   0;14450
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  33; 958.8; 04-DEC-2004 13:35:24; Dark ; 60.0; 117;   Pi Pup ; 2.71; 3800;occ; 120;   0;14450
  34; 1178.8; 04-DEC-2004 13:39:04; Dark ; 70.0;   23; 21Eps CMa ; 1.50; 26000;occ; 140;   0;14450
  35; 1304.4; 04-DEC-2004 13:41:10; Dark ; 69.5; 179; 24Omi2CMa ; 3.03; 24000;occ; 139;   0;14450
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  10;-3221.3; 04-DEC-2004 14:06:20; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73;   0;14450
  11;-3067.4; 04-DEC-2004 14:08:54; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76;   0;14450
  12;-2987.8; 04-DEC-2004 14:10:14; Bright; 40.0;   74; 11Bet Cas ; 2.27; 6600;occ; 80;   0;14450
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  16;-2142.2; 04-DEC-2004 14:24:19; Bright; 46.0;   82; 48Bet UMa ; 2.37; 10600;occ; 92;   0;14450
  17;-2028.6; 04-DEC-2004 14:26:13; Bright; 42.0;   32; 77Eps UMa ; 1.76; 11000;occ; 84;   0;14450
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  19;-1534.2; 04-DEC-2004 14:34:27; Bright; 35.5;   83;   ; 2.38; 11000;occ; 71;   0;14450
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  21;-1123.5; 04-DEC-2004 14:41:18; Bright; 85.0;   96; 68Del Leo ; 2.56; 9300;occ; 170;   0;14450
  22; -882.9; 04-DEC-2004 14:45:18; Bright; 51.0; 121; 29Gam Vir ; 2.74; 7200;occ; 102;   0;14450
  23; -591.1; 04-DEC-2004 14:50:10; Dark ; 49.0; 163; 7Del Crv ; 2.94; 11000;occ; 98;   0;14450
  24; -495.7; 04-DEC-2004 14:51:46; Dark ; 50.0; 106; 9Bet Crv ; 2.65; 5600;occ; 100;   0;14450
  25; -392.7; 04-DEC-2004 14:53:29; Dark ; 40.0; 123;   Iot Cen ; 2.75; 10200;occ; 80;   0;14450
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  28; -68.9; 04-DEC-2004 14:58:52; Dark ; 46.0;   10;   Bet Cen ; 0.61; 28000;occ; 92;   0;14450
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  30; 284.7; 04-DEC-2004 15:04:46; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;14451
  31; 392.2; 04-DEC-2004 15:06:34; Dark ; 40.5;   29;   Bet Car ; 1.67; 10200;occ; 81;   0;14451
  32; 517.0; 04-DEC-2004 15:08:38; Dark ; 46.5;   41;   Eps Car ; 1.86; 4100;occ; 93;   0;14451
  33; 651.4; 04-DEC-2004 15:10:53; Dark ; 50.0;   34;   Gam2Vel ; 1.79; 23000;occ; 100;   0;14451
  34; 833.3; 04-DEC-2004 15:13:55; Dark ; 57.0;   2;   Alp Car ;-0.74; 7000;occ; 114;   0;14451
  35; 959.6; 04-DEC-2004 15:16:01; Dark ; 66.5; 117;   Pi Pup ; 2.71; 3800;occ; 133;   0;14451
  36; 1179.4; 04-DEC-2004 15:19:41; Dark ; 72.0;   23; 21Eps CMa ; 1.50; 26000;occ; 144;   0;14451
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   7;-3715.7; 04-DEC-2004 15:38:42; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78;   0;14451
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   9;-3433.8; 04-DEC-2004 15:43:24; Bright; 38.5;   79; 26Bet Per ; 2.31; 13100;occ; 77;   0;14451
  10;-3308.7; 04-DEC-2004 15:45:29; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74;   0;14451
  11;-3221.4; 04-DEC-2004 15:46:56; Bright; 38.0; 160; 23Gam Per ; 2.93; 4700;occ; 76;   0;14451
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  22;-1380.6; 04-DEC-2004 16:17:37; Bright; 37.0;   3; 16Alp Boo ;-0.05; 4250;occ; 74;   0;14451
  23;-1122.4; 04-DEC-2004 16:21:55; Bright; 89.0;   96; 68Del Leo ; 2.56; 9300;occ; 178;   0;14451

  24; -882.3; 04-DEC-2004 16:25:55; Bright; 51.5; 121; 29Gam Vir ; 2.74; 7200;occ; 103;   0;14451
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  33; 393.2; 04-DEC-2004 16:47:11; Dark ; 44.0;   29;   Bet Car ; 1.67; 10200;occ; 88;   0;14452
  34; 518.1; 04-DEC-2004 16:49:16; Dark ; 48.0;   41;   Eps Car ; 1.86; 4100;occ; 96;   0;14452
  35; 652.7; 04-DEC-2004 16:51:30; Dark ; 50.5;   34;   Gam2Vel ; 1.79; 23000;occ; 101;   0;14452
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   6;-4123.3; 04-DEC-2004 17:12:30; Dark ; 60.0;   30; 46Eps Ori ; 1.69; 30000;occ; 120;   0;14452
   7;-3968.1; 04-DEC-2004 17:15:05; Dark ; 60.0;   27; 24Gam Ori ; 1.64; 26000;occ; 120;   0;14452
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  18;-2237.5; 04-DEC-2004 17:43:56; Bright; 46.5;   36; 50Alp UMa ; 1.80; 6300;occ; 93;   0;14452
  19;-2143.5; 04-DEC-2004 17:45:30; Bright; 48.0;   82; 48Bet UMa ; 2.37; 10600;occ; 96;   0;14452
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  38; 653.7; 04-DEC-2004 18:32:07; Dark ; 50.0;   34;   Gam2Vel ; 1.79; 23000;occ; 100;   0;14453
  39; 834.8; 04-DEC-2004 18:35:08; Dark ; 57.0;   2;   Alp Car ;-0.74; 7000;occ; 114;   0;14453
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  27; 3038.4; 03-DEC-2004 02:57:30; Bright;  38.0;   74; 11Bet Cas  ; 2.27;  6600;occ;  76;   0;14429
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  32;  403.8; 06-DEC-2004 12:22:55; Dark  ;  42.0;   29;   Bet Car  ; 1.67; 10200;occ;  84;   0;14478
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  23; 4710.8; 11-DEC-2004 21:00:11; Bright;  40.5;  111;  8Eta Boo  ; 2.68;  6000;occ;  81;   0;14554
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   8;-1093.0; 13-DEC-2004 03:14:50; Bright; 51.0; 138; 47Eps Vir ; 2.83; 4700;occ; 102;   0;14572
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  10; -737.5; 13-DEC-2004 03:20:45; Dark ; 50.5;   15; 67Alp Vir ; 0.98; 28000;occ; 101;   0;14572
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  11;-3027.1; 14-DEC-2004 12:14:34; Bright;  38.5;  110; 37Del Cas  ; 2.68;  8900;occ;  77;   0;14592
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  15;-2051.0; 14-DEC-2004 12:30:50; Bright;  42.0;   32; 77Eps UMa  ; 1.76; 11000;occ;  84;   0;14592
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  31;  762.0; 14-DEC-2004 13:17:43; Dark  ;  48.5;   34;   Gam2Vel  ; 1.79; 23000;occ;  97;   0;14593
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   7;  341.7; 18-DEC-2004 02:41:14; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;14644
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   9; 458.2; 22-DEC-2004 00:36:42; Dark ; 40.5; 159;   Ups Car ; 2.92; 7200;occ; 81;   0;14700
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  31; 2589.7; 22-DEC-2004 04:33:26; Bright;  36.5;  149; 45Eps Per  ; 2.89; 30000;occ;  73;   0;14702
  32; 2724.3; 22-DEC-2004 04:35:40; Bright;  36.5;  175; 39Del Per  ; 3.01; 19400;occ;  73;   0;14702
  33; 2836.8; 22-DEC-2004 04:37:33; Bright;  40.5;  160; 23Gam Per  ; 2.93;  4700;occ;  81;   0;14702
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   6;-3695.3; 25-DEC-2004 12:58:01; Bright;  36.5;  146; 25Eta Tau  ; 2.87; 15200;occ;  73;   0;14750
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13;-3332.2; 24-DEC-2004 18:37:29; Bright; 45.5;   6; 13Alp Aur ; 0.08; 3400;occ; 91;   0;14739
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  35; 2856.7; 27-DEC-2004 07:01:35; Bright;  38.0;  160; 23Gam Per  ; 2.93;  4700;occ;  76;   0;14775
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  11;  524.3; 27-DEC-2004 21:28:06; Dark  ;  42.5;   29;   Bet Car  ; 1.67; 10200;occ;  85;   0;14784
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  28; 3420.2; 27-DEC-2004 23:56:58; Bright;  39.0;   49;  1Alp UMi  ; 1.99;  6300;occ;  78;   0;14785
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   9; 528.1; 28-DEC-2004 22:37:08; Dark ; 43.0;   29;   Bet Car ; 1.67; 10200;occ; 86;   0;14799
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  33; 4563.7; 28-DEC-2004 23:44:24; Bright; 42.5;   83;   ; 2.38; 11000;occ; 85;   0;14799

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  29;  386.8; 28-DEC-2004 15:52:23; Dark  ;  59.5;    0;           ; 0.00;     0;occ; 119;   0;14795
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  16;-2413.2; 28-DEC-2004 16:46:19; Bright;  51.0;   36; 50Alp UMa  ; 1.80;  6300;occ; 102;   0;14795
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  25; 2785.6; 29-DEC-2004 02:35:58; Bright;  43.0;   35; 33Alp Per  ; 1.79;  6250;occ;  86;   0;14801
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27; 211.2; 29-DEC-2004 11:56:39; Dark ; 42.5;   12;   Alp1Cru ; 0.77; 30000;occ; 85;   0;14807
28; 390.4; 29-DEC-2004 11:59:38; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;14807
29; 533.5; 29-DEC-2004 12:02:01; Dark ; 40.5;   29;   Bet Car ; 1.67; 10200;occ; 81;   0;14807
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33; 968.1; 29-DEC-2004 12:09:16; Dark ; 47.5;   2;   Alp Car ;-0.74; 7000;occ; 95;   0;14807
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   2;-5191.7; 31-DEC-2004 19:26:57; Dark  ;  54.5;   65;   Lam Vel  ; 2.20;  4400;occ; 109;   0;14840
   3;-5059.4; 31-DEC-2004 19:29:09; Dark  ;  48.0;    2;   Alp Car  ;-0.74;  7000;occ;  96;   0;14840
   4;-4867.3; 31-DEC-2004 19:32:22; Dark  ;  48.0;  117;   Pi  Pup  ; 2.71;  3800;occ;  96;   0;14840
   5;-4699.1; 31-DEC-2004 19:35:10; Dark  ;  52.0;   23; 21Eps CMa  ; 1.50; 26000;occ; 104;   0;14840
   6;-4604.4; 31-DEC-2004 19:36:44; Dark  ;  46.0;  179; 24Omi2CMa  ; 3.03; 24000;occ;  92;   0;14840
   7;-4456.5; 31-DEC-2004 19:39:12; Dark  ;  57.5;    1;  9Alp CMa  ;-1.44; 11000;occ; 115;   0;14840
   8;-4270.4; 31-DEC-2004 19:42:18; Dark  ;  50.5;    7; 19Bet Ori  ; 0.10; 14000;occ; 101;   0;14840
   9;-4158.8; 31-DEC-2004 19:44:10; Dark  ;  47.5;   30; 46Eps Ori  ; 1.69; 30000;occ;  95;   0;14840
  10;-3942.8; 31-DEC-2004 19:47:46; Dark  ;  72.5;    8; 10Alp CMi  ; 0.40;  6500;occ; 145;   0;14840
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  13;-3565.5; 31-DEC-2004 19:54:03; Bright;  40.0;  114;  3Iot Aur  ; 2.69;  4600;occ;  80;   0;14840
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  25;-1211.1; 31-DEC-2004 20:33:18; Bright;  54.5;  111;  8Eta Boo  ; 2.68;  6000;occ; 109;   0;14840
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  37;  546.0; 31-DEC-2004 21:02:35; Dark  ;  40.5;   29;   Bet Car  ; 1.67; 10200;occ;  81;   0;14841
  38;  628.8; 31-DEC-2004 21:03:58; Dark  ;  45.0;   71;   Iot Car  ; 2.25;  7700;occ;  90;   0;14841
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