GOMOS Daily Report 29-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	31DEC2004 05:02:45

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (29DEC2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (30DEC2004 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)

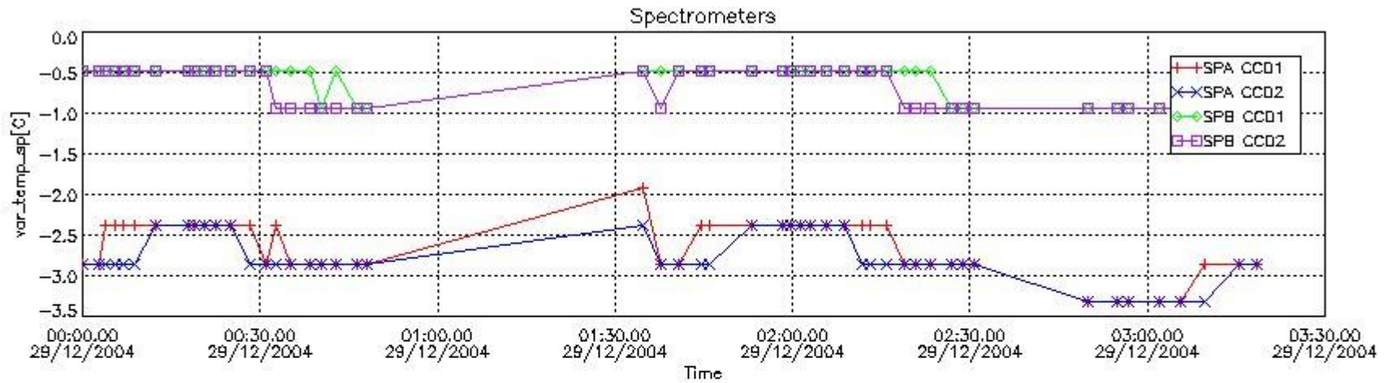
2.1 Level 0 products arrived in PCF (see template here)

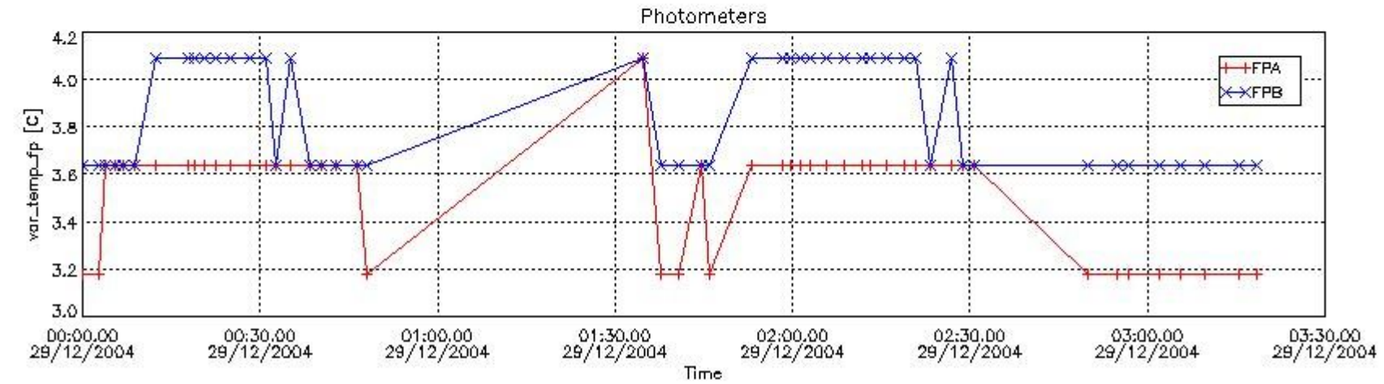
2.2 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20041229_000006_000000632033_00216_14799_0001.N1	29-DEC-2004 00:00:06	Twilight	62.500	15	67Alp Vir	0.97600	28000.	125	14799	No
2	GOM_TRA_1PNPDE20041229_000243_000000412033_00216_14799_0002.N1	29-DEC-2004 00:02:43	Twilight	40.500	131	Gam Lup	2.8000	26000.	81	14799	No
3	GOM_TRA_1PNPDE20041229_000357_000000422033_00216_14799_0003.N1	29-DEC-2004 00:03:57	Twilight	42.000	109	Bet Lup	2.6770	26000.	84	14799	No
4	GOM_TRA_1PNPDE20041229_000525_000000402033_00216_14799_0004.N1	29-DEC-2004 00:05:25	Twilight	40.000	78	Alp Lup	2.3040	28000.	80	14799	No
5	GOM_TRA_1PNPDE20041229_000648_000000422033_00216_14799_0005.N1	29-DEC-2004 00:06:48	Dark	42.000	95	Zet Cen	2.5450	26000.	84	14799	No
6	GOM_TRA_1PNPDE20041229_000841_000000522033_00216_14799_0006.N1	29-DEC-2004 00:08:41	Dark	52.000	4	Alp1Cen	-0.010000	5800.0	104	14799	No
7	GOM_TRA_1PNPDE20041229_001223_000000502033_00217_14800_0007.N1	29-DEC-2004 00:12:23	Dark	49.500	12	Alp1Cru	0.77500	30000.	99	14800	No
8	GOM_TRA_1PNPDE20041229_001747_000000412033_00217_14800_0008.N1	29-DEC-2004 00:17:47	Dark	40.500	29	Bet Car	1.6720	10200.	81	14800	No
9	GOM_TRA_1PNPDE20041229_001903_000000442033_00217_14800_0009.N1	29-DEC-2004 00:19:03	Dark	43.500	71	Iot Car	2.2460	7700.0	87	14800	No
10	GOM_TRA_1PNPDE20041229_002041_000000472033_00217_14800_0010.N1	29-DEC-2004 00:20:41	Dark	47.000	41	Eps Car	1.8600	4100.0	94	14800	No
11	GOM_TRA_1PNPDE20041229_002229_000000672033_00217_14800_0011.N1	29-DEC-2004 00:22:29	Dark	66.500	65	Lam Vel	2.2040	4400.0	133	14800	No
12	GOM_TRA_1PNPDE20041229_002502_000000522033_00217_14800_0012.N1	29-DEC-2004 00:25:02	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	14800	No
13	GOM_TRA_1PNPDE20041229_002811_000000472033_00217_14800_0013.N1	29-DEC-2004 00:28:11	Dark	46.500	117	Pi Pup	2.7060	3800.0	93	14800	No
14	GOM_TRA_1PNPDE20041229_003102_000000522033_00217_14800_0014.N1	29-DEC-2004 00:31:02	Dark	52.000	23	21Eps CMa	1.5020	26000.	104	14800	No
15	GOM_TRA_1PNPDE20041229_003236_000000502033_00217_14800_0015.N1	29-DEC-2004 00:32:36	Dark	50.000	179	24Omi2CMa	3.0320	24000.	100	14800	No
16	GOM_TRA_1PNPDE20041229_003509_000000582033_00217_14800_0016.N1	29-DEC-2004 00:35:09	Twilight	58.000	1	9Alp CMa	-1.4400	11000.	116	14800	No
17	GOM_TRA_1PNPDE20041229_003819_000000432033_00217_14800_0017.N1	29-DEC-2004 00:38:19	Bright	43.000	7	19Bet Ori	0.10000	14000.	86	14800	No
18	GOM_TRA_1PNPDE20041229_004013_000000402033_00217_14800_0018.N1	29-DEC-2004 00:40:13	Bright	39.500	30	46Eps Ori	1.6940	30000.	79	14800	No
19	GOM_TRA_1PNPDE20041229_004248_000000562033_00217_14800_0019.N1	29-DEC-2004 00:42:48	Bright	56.000	14	58Alp Ori	0.87000	3000.0	112	14800	No
20	GOM_TRA_1PNPDE20041229_004618_000000602033_00217_14800_0020.N1	29-DEC-2004 00:46:18	Bright	59.500	44	24Gam Gem	1.9280	11000.	119	14800	No
21	GOM_TRA_1PNPDE20041229_004810_000000372033_00217_14800_0021.N1	29-DEC-2004 00:48:10	Bright	37.000	146	25Eta Tau	2.8730	15200.	74	14800	No
22	GOM_TRA_1PNPDE20041229_013449_000000852033_00217_14800_0000.N1	29-DEC-2004 01:34:49	Twilight	84.500	138	47Eps Vir	2.8280	4700.0	169	14800	Yes
23	GOM_TRA_1PNPDE20041229_013746_000000472033_00217_14800_0001.N1	29-DEC-2004 01:37:46	Twilight	47.000	122	9Alp2Lib	2.7470	9700.0	94	14800	No
24	GOM_TRA_1PNPDE20041229_014043_000000672033_00217_14800_0002.N1	29-DEC-2004 01:40:43	Twilight	67.000	15	67Alp Vir	0.97600	28000.	134	14800	No
25	GOM_TRA_1PNPDE20041229_014434_000000422033_00217_14800_0003.N1	29-DEC-2004 01:44:34	Twilight	42.000	109	Bet Lup	2.6770	26000.	84	14800	No
26	GOM_TRA_1PNPDE20041229_014602_000000432033_00217_14800_0004.N1	29-DEC-2004 01:46:02	Twilight	43.000	78	Alp Lup	2.3040	28000.	86	14800	No
27	GOM_TRA_1PNPDE20041229_015258_000000482033_00218_14801_0005.N1	29-DEC-2004 01:52:58	Dark	48.000	12	Alp1Cru	0.77500	30000.	96	14801	No
28	GOM_TRA_1PNPDE20041229_015823_000000452033_00218_14801_0006.N1	29-DEC-2004 01:58:23	Dark	45.000	29	Bet Car	1.6720	10200.	90	14801	No
29	GOM_TRA_1PNPDE20041229_015937_000000452033_00218_14801_0007.N1	29-DEC-2004 01:59:37	Dark	44.500	71	Iot Car	2.2460	7700.0	89	14801	No
30	GOM_TRA_1PNPDE20041229_020118_000000552033_00218_14801_0008.N1	29-DEC-2004 02:01:18	Dark	54.500	41	Eps Car	1.8600	4100.0	109	14801	No
31	GOM_TRA_1PNPDE20041229_020304_000000602033_00218_14801_0009.N1	29-DEC-2004 02:03:04	Dark	59.500	65	Lam Vel	2.2040	4400.0	119	14801	No
32	GOM_TRA_1PNPDE20041229_020538_000000532033_00218_14801_0010.N1	29-DEC-2004 02:05:38	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	14801	No
33	GOM_TRA_1PNPDE20041229_020848_000000532033_00218_14801_0011.N1	29-DEC-2004 02:08:48	Dark	52.500	117	Pi Pup	2.7060	3800.0	105	14801	No
34	GOM_TRA_1PNPDE20041229_021140_000000512033_00218_14801_0012.N1	29-DEC-2004 02:11:40	Dark	50.500	23	21Eps CMa	1.5020	26000.	101	14801	No
35	GOM_TRA_1PNPDE20041229_021314_000000512033_00218_14801_0013.N1	29-DEC-2004 02:13:14	Dark	50.500	179	24Omi2CMa	3.0320	24000.	101	14801	No
36	GOM_TRA_1PNPDE20041229_021545_000000572033_00218_14801_0014.N1	29-DEC-2004 02:15:45	Twilight	57.000	1	9Alp CMa	-1.4400	11000.	114	14801	No
37	GOM_TRA_1PNPDE20041229_021855_000000462033_00218_14801_0015.N1	29-DEC-2004 02:18:55	Bright	46.000	7	19Bet Ori	0.10000	14000.	92	14801	No
38	GOM_TRA_1PNPDE20041229_022047_000000422033_00218_14801_0016.N1	29-DEC-2004 02:20:47	Bright	41.500	30	46Eps Ori	1.6940	30000.	83	14801	No
39	GOM_TRA_1PNPDE20041229_022325_000000562033_00218_14801_0017.N1	29-DEC-2004 02:23:25	Bright	56.000	14	58Alp Ori	0.87000	3000.0	112	14801	No
40	GOM_TRA_1PNPDE20041229_022651_000000562033_00218_14801_0018.N1	29-DEC-2004 02:26:51	Bright	56.000	44	24Gam Gem	1.9280	11000.	112	14801	No
41	GOM_TRA_1PNPDE20041229_022846_000000372033_00218_14801_0019.N1	29-DEC-2004 02:28:46	Bright	37.000	146	25Eta Tau	2.8730	15200.	74	14801	No
42	GOM_TRA_1PNPDE20041229_023042_000000402033_00218_14801_0020.N1	29-DEC-2004 02:30:42	Bright	40.000	114	3Iot Aur	2.6930	4600.0	80	14801	No
43	GOM_TRA_1PNPDE20041229_024951_000000512033_00218_14801_0000.N1	29-DEC-2004 02:49:51	Bright	51.000	36	50Alp UMa	1.8000	6300.0	102	14801	No
44	GOM_TRA_1PNPDE20041229_025447_000000412033_00218_14801_0001.N1	29-DEC-2004 02:54:47	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	14801	No
45	GOM_TRA_1PNPDE20041229_025649_000000402033_00218_14801_0002.N1	29-DEC-2004 02:56:49	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	14801	No
46	GOM_TRA_1PNPDE20041229_030202_000000422033_00218_14801_0003.N1	29-DEC-2004 03:02:02	Bright	42.000	180	27Gam Boo	3.0400	8000.0	84	14801	No

47	GOM_TRA_1PNPDE20041229_030537_000000442033_00218_14801_0004.N1	29-DEC-2004 03:05:37	Bright	43.500	83		2.3780	11000.	87	14801	No
48	GOM_TRA_1PNPDE20041229_030936_000000522033_00218_14801_0005.N1	29-DEC-2004 03:09:36	Bright	52.000	111	8Eta Boo	2.6800	6000.0	104	14801	No
49	GOM_TRA_1PNPDE20041229_031526_000000842033_00218_14801_0006.N1	29-DEC-2004 03:15:26	Twilight	84.000	138	47Eps Vir	2.8280	4700.0	168	14801	No
50	GOM_TRA_1PNPDE20041229_031823_000000432033_00218_14801_0007.N1	29-DEC-2004 03:18:23	Twilight	42.500	122	9Alp2Lib	2.7470	9700.0	85	14801	No

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



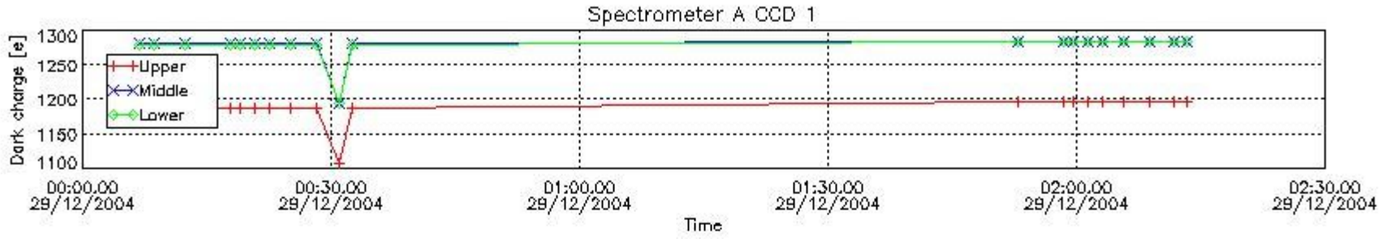


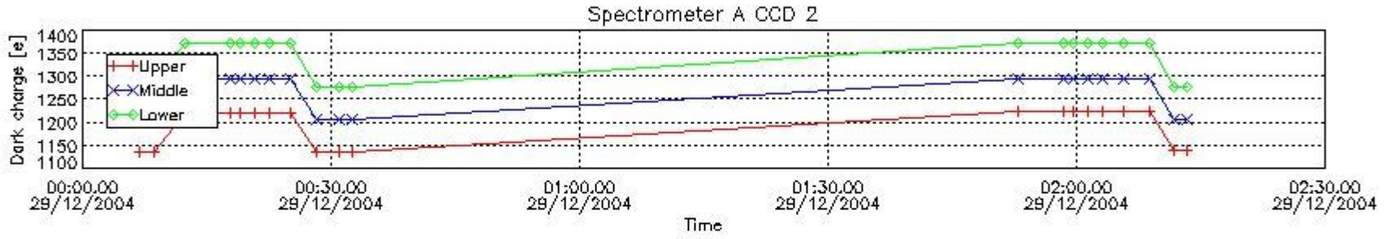
4. Overview of dark signal processing per product

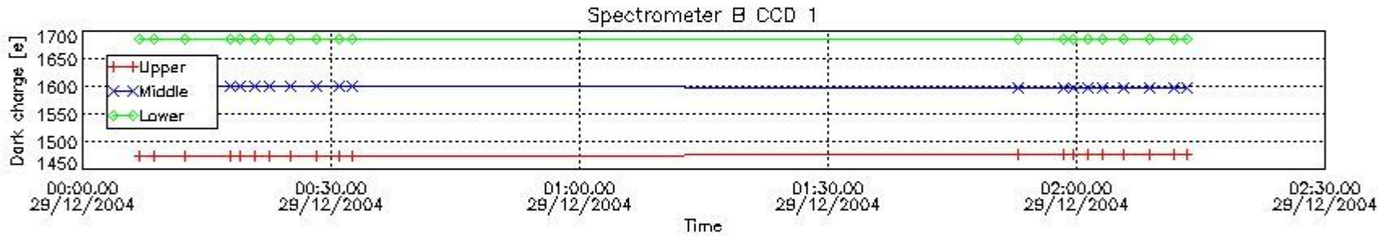
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

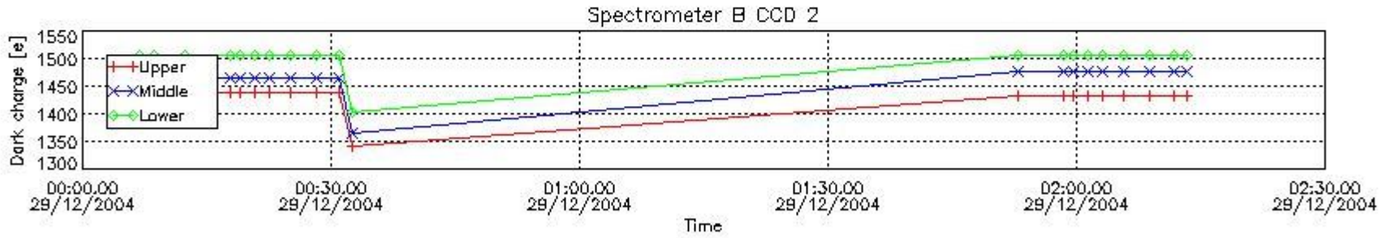
4.1 All products used the DSA observation for the DC computation

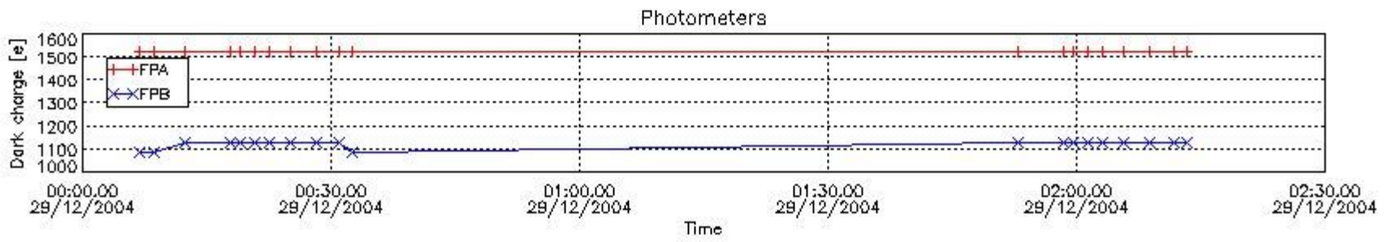
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











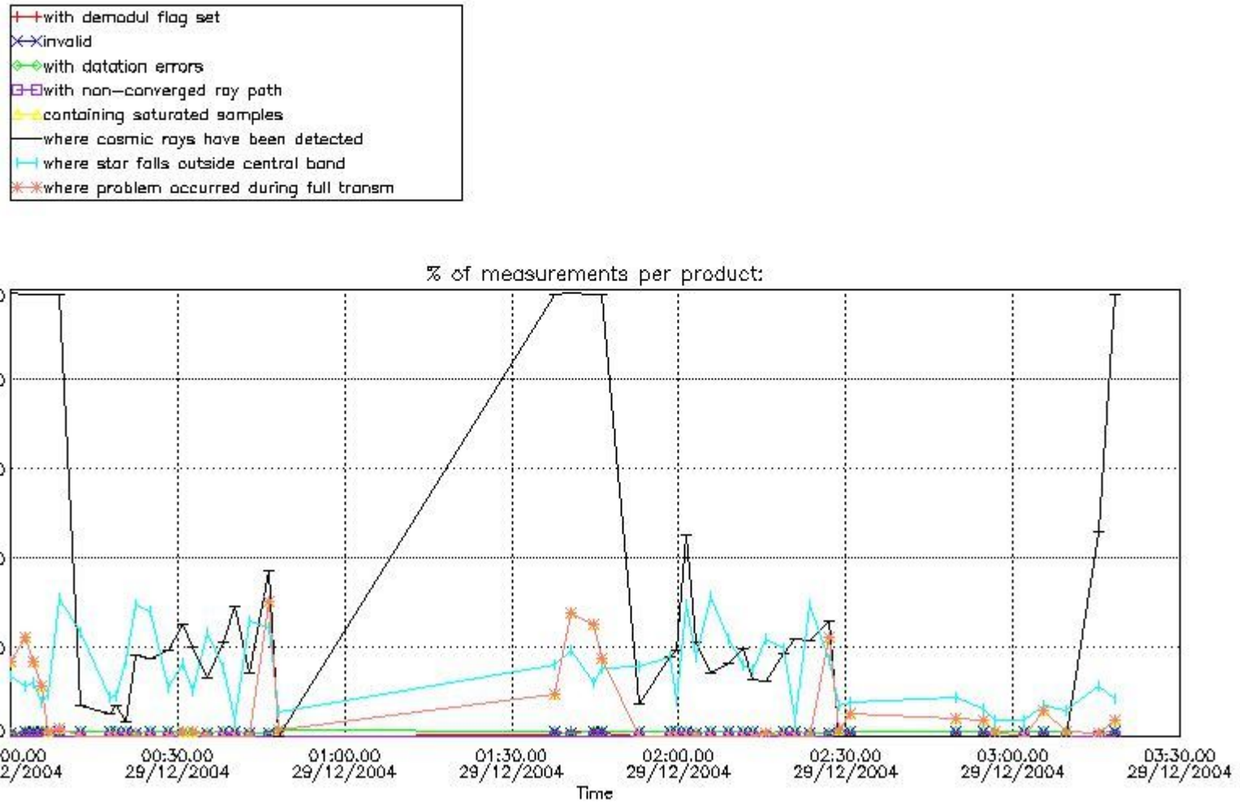
5. Demodulation flag and quality information monitoring

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.

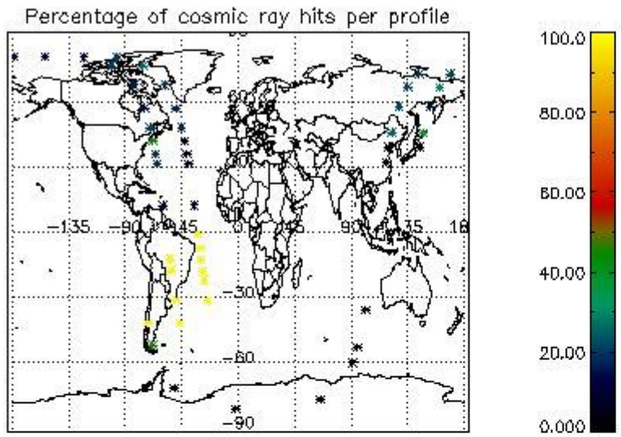
5.1 Percentage of products during reporting period with:

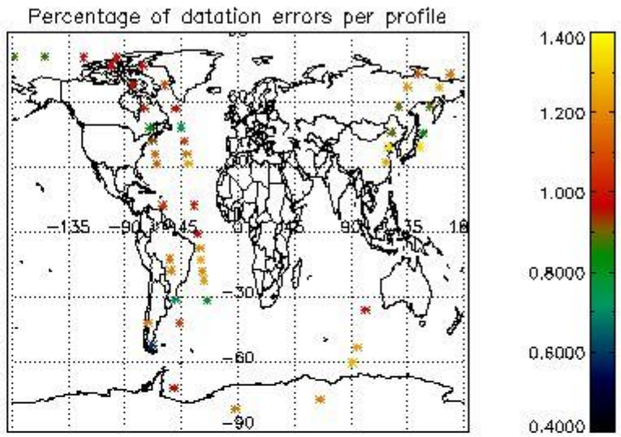
At least one measurement with demodulation flag set:	28.5714 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

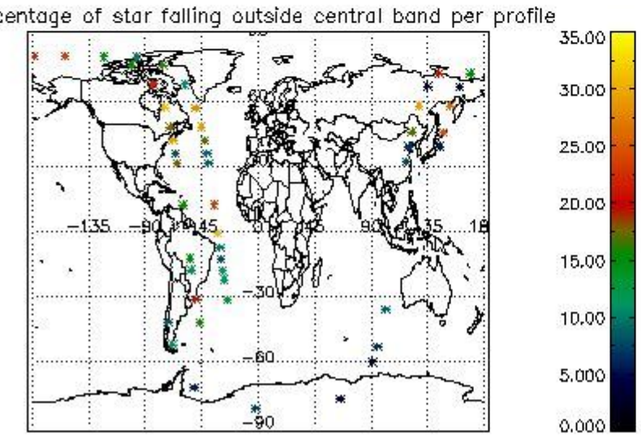
5.2 Plot quality information per product (time dependant)

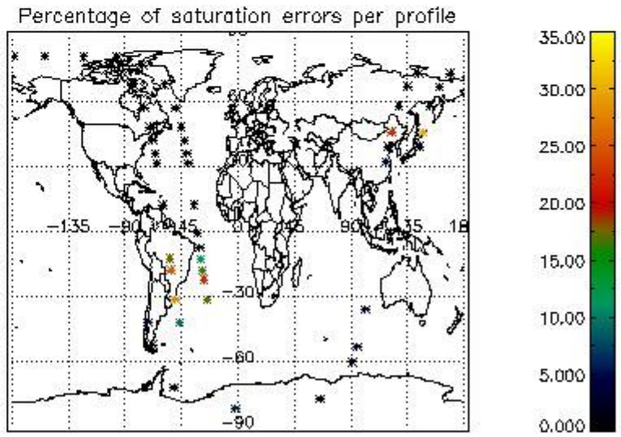


5.3 Plot quality information per product (world map)









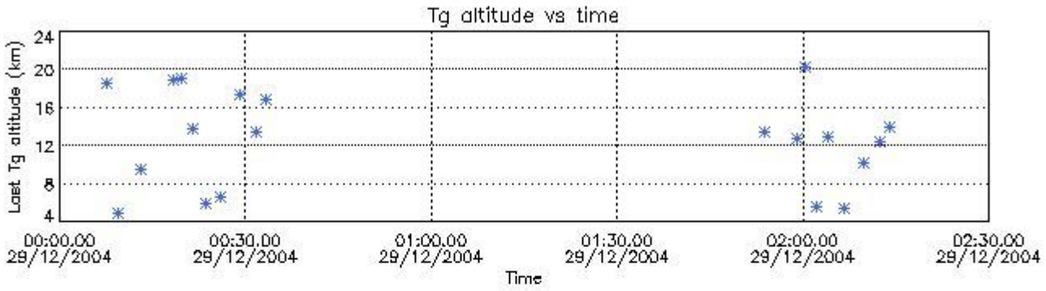
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

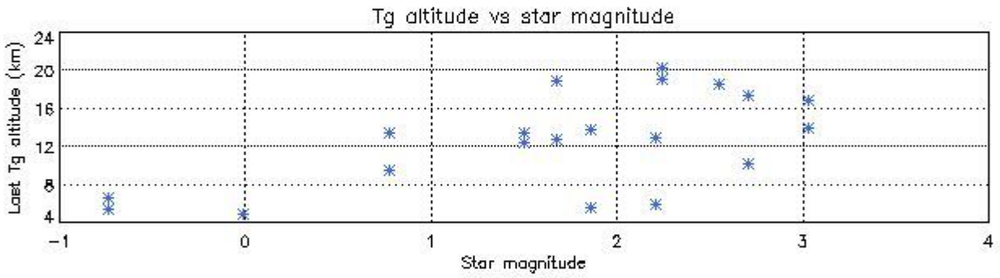
6.1 Statistics on tangent altitude lost:

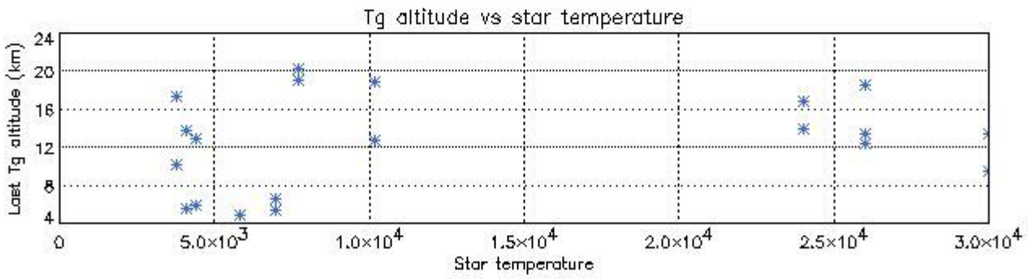
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.572	16.945	14.510
St. deviation:	5.0133	5.4834	3.1267
Maximum:	20.316	22.665	18.989
Minimum:	4.9229	6.6590	8.9476
Number of data:	20.000	17.000	12.000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

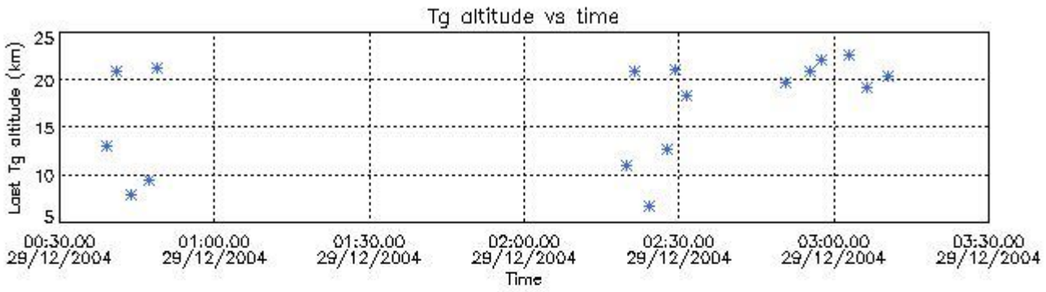


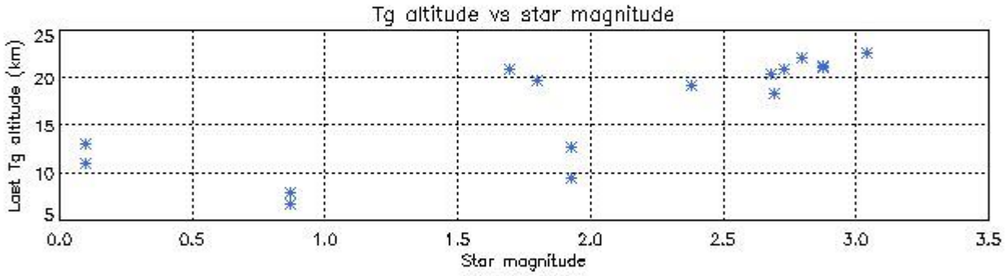


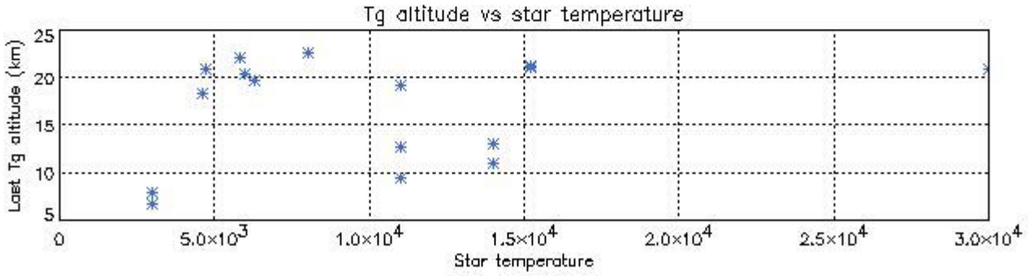


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

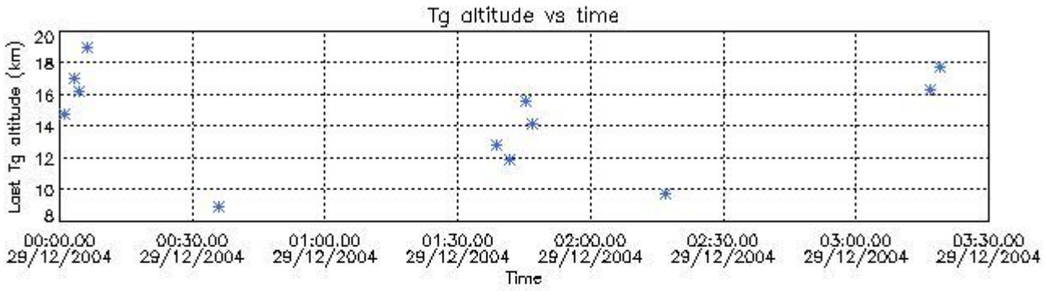


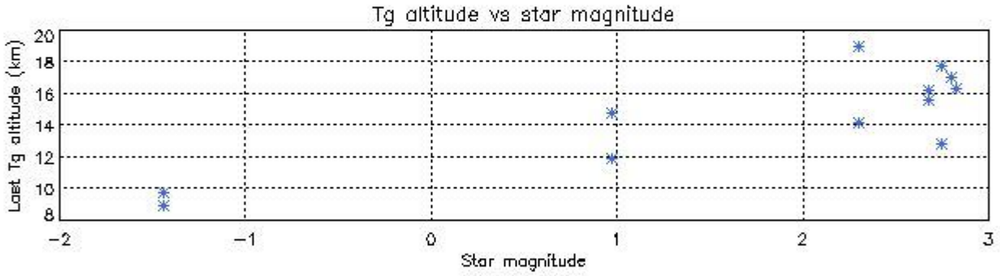


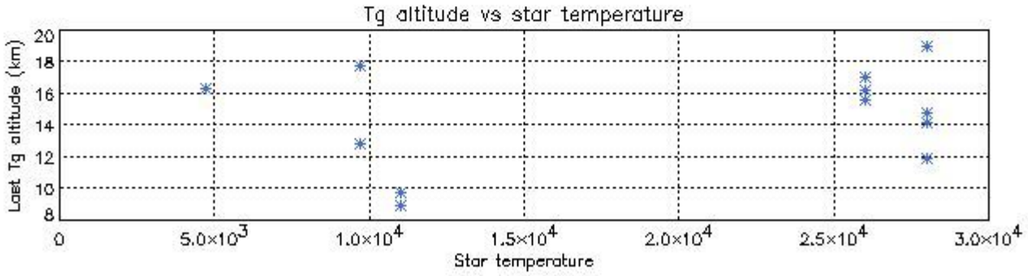


6.3 Plot for TWILIGHT limb products

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

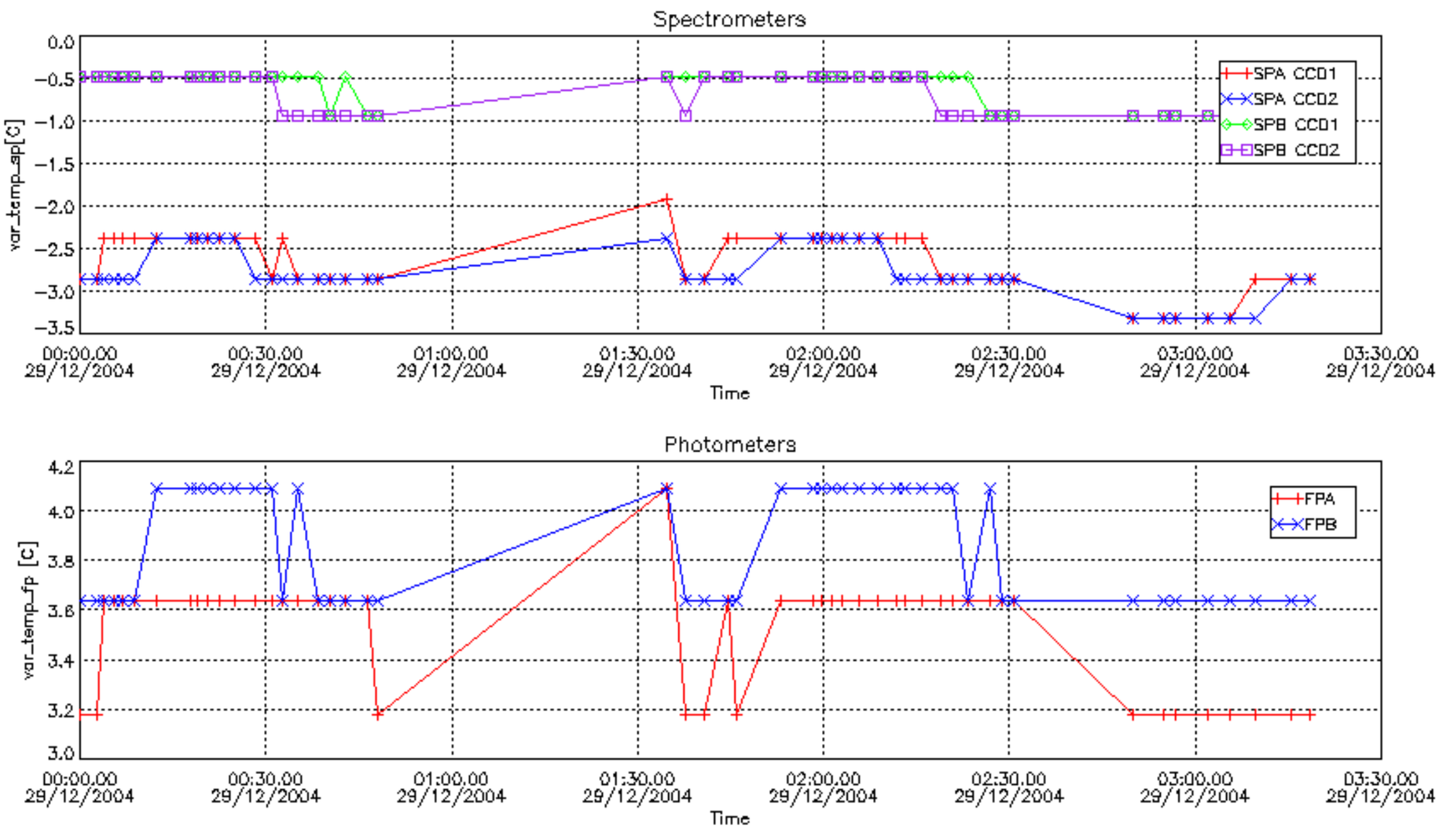
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.
Statistics above 105 km are computed for every occultation, giving four values per occultation: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

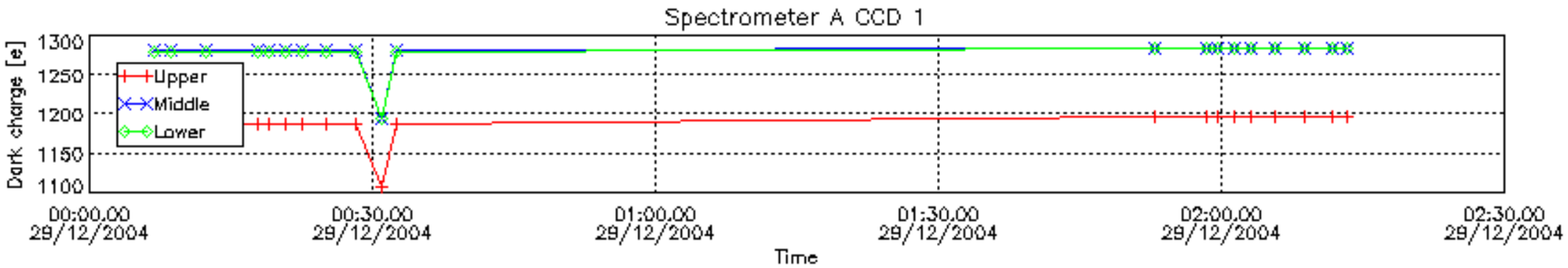
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.4	1446.3	1461.4	1447.6
St. deviation:	4.3304	7.1809	6.2140	8.6912
Maximum:	1506.0	1507.0	1505.0	1515.0
Minimum:	1427.0	1386.0	1440.0	1416.0
Number of data:	25350.	25350.	20400.	20400.

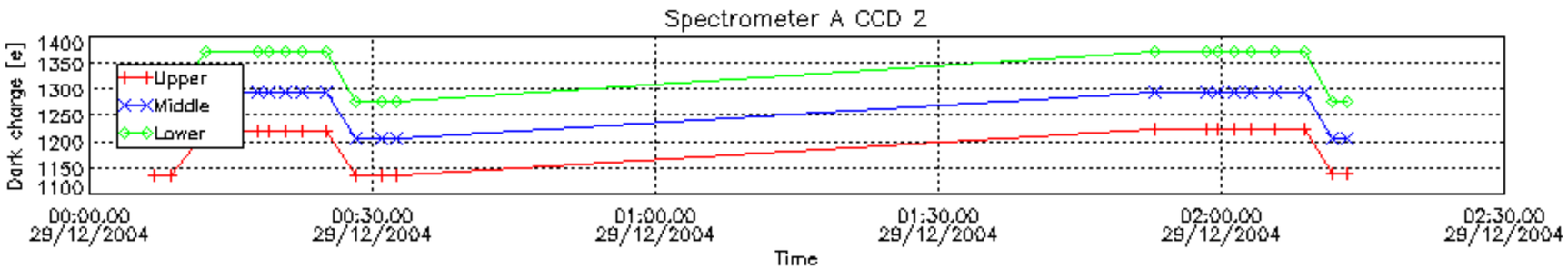
8. Auxiliary Data Files used for the production reported in section 2.2

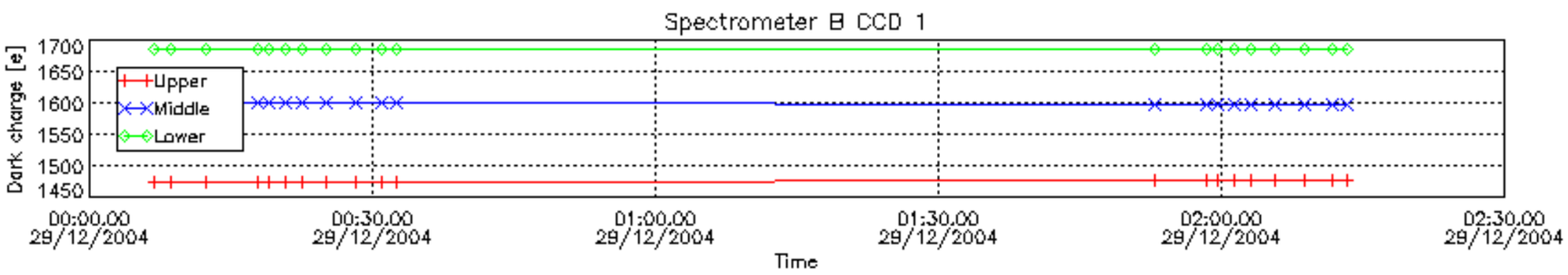
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

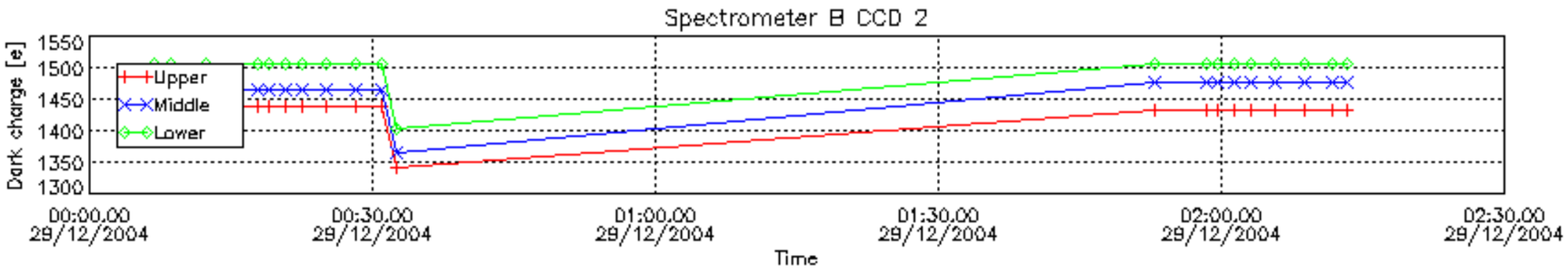
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	29-DEC-2004 00:00:06
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041217_142407_20041216_000000_20100101_000000	1	29-DEC-2004 00:00:06
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	29-DEC-2004 00:00:06
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-DEC-2004 00:00:06
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	29-DEC-2004 00:00:06
ECMWF_FILE	AUX_ECF_AXNECM20041228_060238_20041228_210000_20041229_090000	1	29-DEC-2004 00:00:06
OPTIONAL_ECMWF_FILE	NOT USED	1	29-DEC-2004 00:00:06
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041229_000140_20041228_190709_20050107_203320	1	29-DEC-2004 00:00:06

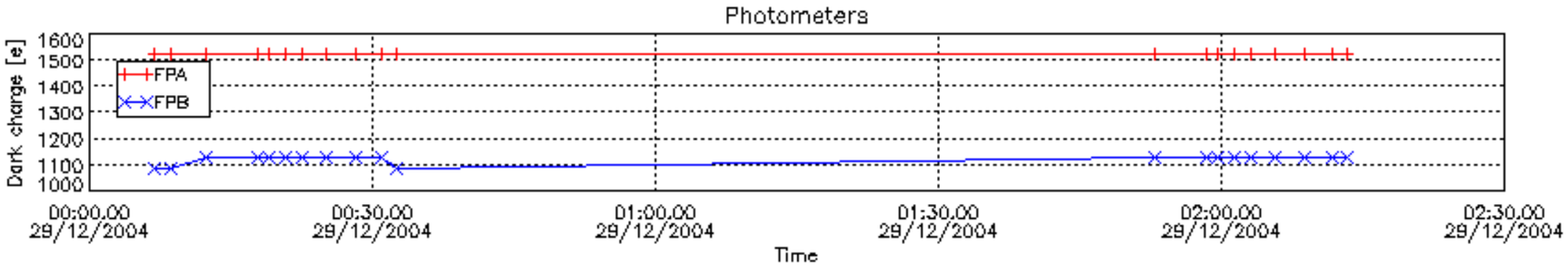

Spectrometers
var_temp_sp[C]
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
−3.0
−3.5
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00 29/12/2004
00:30.00 29/12/2004
01:00.00 29/12/2004
01:30.00 29/12/2004
02:00.00 29/12/2004
02:30.00 29/12/2004
03:00.00 29/12/2004
03:30.00 29/12/2004
Time
Photometers
var_temp_fp [C]
4.2
4.0
3.8
3.6
3.4
3.2
3.0
FPA
FPB
00:00.00 29/12/2004
00:30.00 29/12/2004
01:00.00 29/12/2004
01:30.00 29/12/2004
02:00.00 29/12/2004
02:30.00 29/12/2004
03:00.00 29/12/2004
03:30.00 29/12/2004
Time

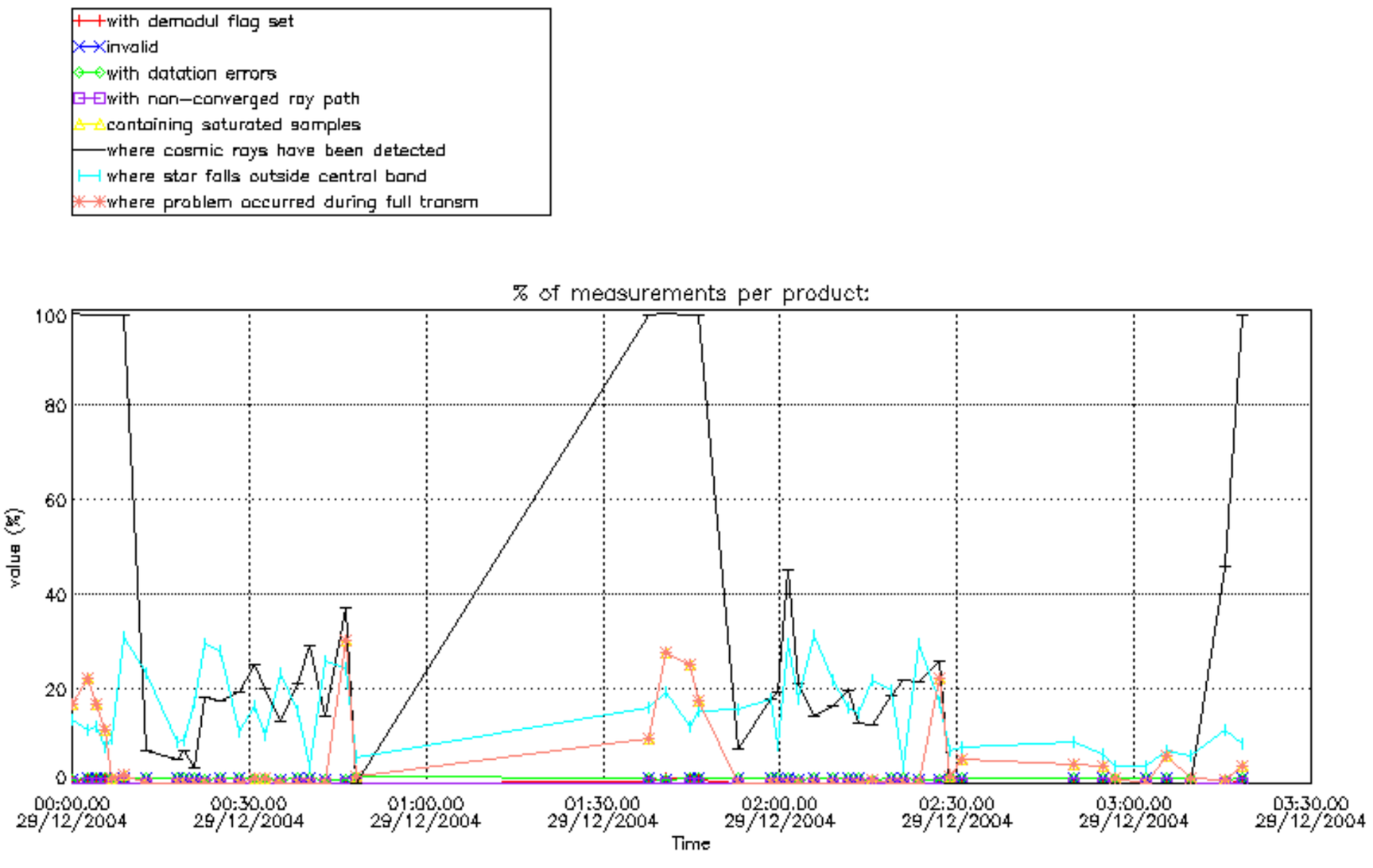

Spectrometer A CCD 1
Dark charge [e]
1300
1250
1200
1150
1100
Upper
Middle
Lower
00:00.00
29/12/2004
00:30.00
29/12/2004
01:00.00
29/12/2004
01:30.00
29/12/2004
02:00.00
29/12/2004
02:30.00
29/12/2004
Time

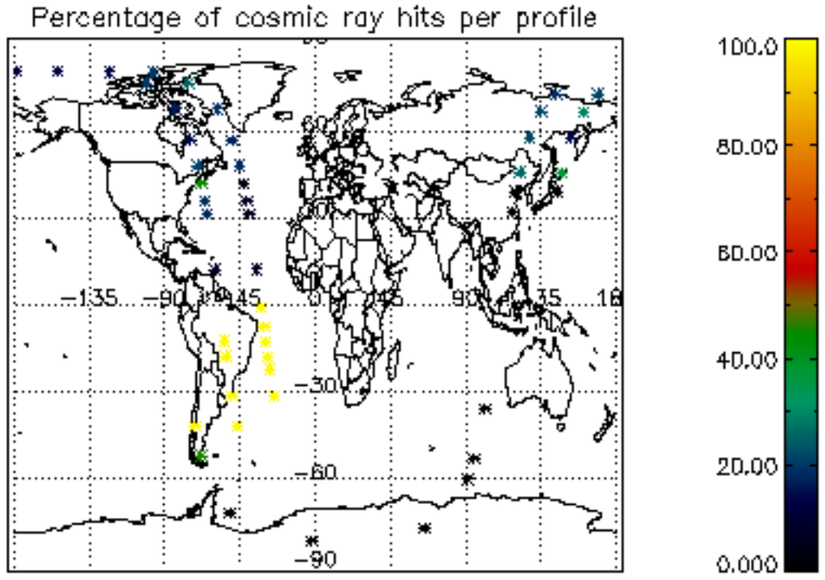

Spectrometer A CCD 2
Dark charge [e]
1400
1350
1300
1250
1200
1150
1100
Upper
Middle
Lower
00:00.00
29/12/2004
00:30.00
29/12/2004
01:00.00
29/12/2004
01:30.00
29/12/2004
02:00.00
29/12/2004
02:30.00
29/12/2004
Time

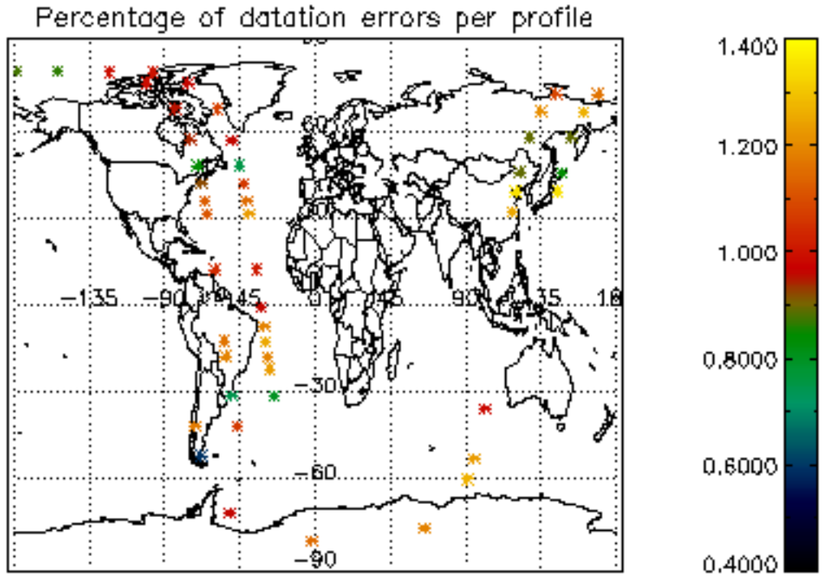

Spectrometer B CCD 1
Dark charge [e]
1700
1650
1600
1550
1500
1450
Upper
Middle
Lower
00:00.00
29/12/2004
00:30.00
29/12/2004
01:00.00
29/12/2004
01:30.00
29/12/2004
02:00.00
29/12/2004
02:30.00
29/12/2004
Time

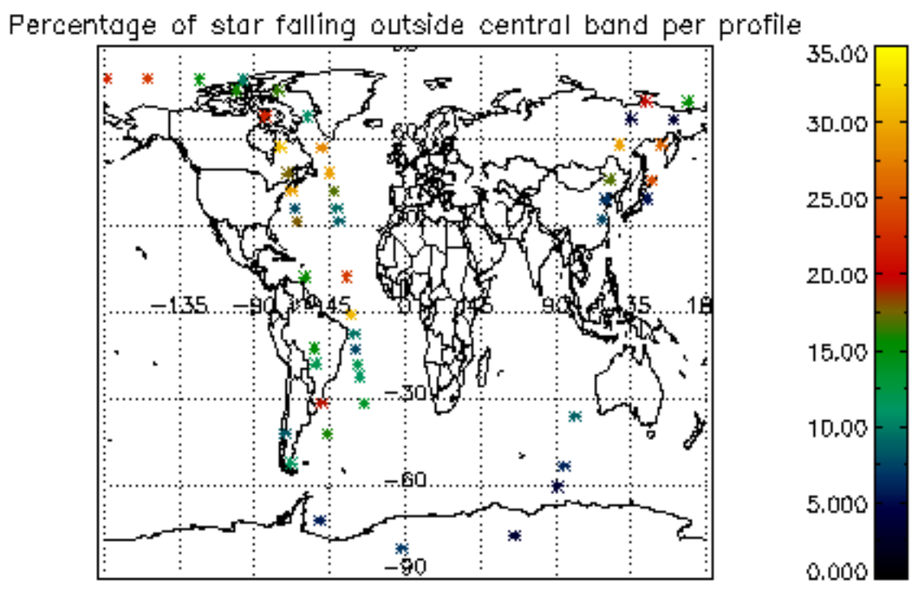

Spectrometer B CCD 2
Dark charge [e]
1550
1500
1450
1400
1350
1300
Upper
Middle
Lower
00:00.00
29/12/2004
00:30.00
29/12/2004
01:00.00
29/12/2004
01:30.00
29/12/2004
02:00.00
29/12/2004
02:30.00
29/12/2004
Time

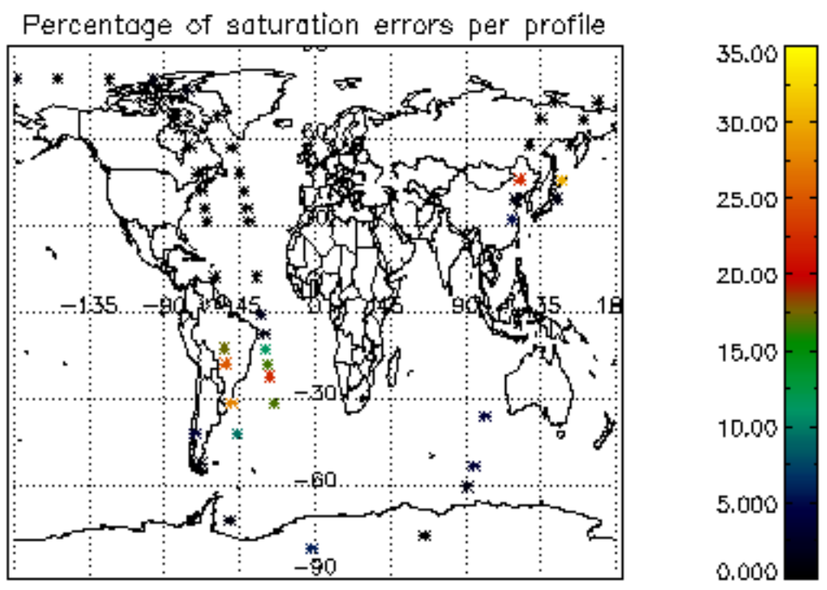

Photometers
Dark charge [e]
1600
1500
1400
1300
1200
1100
1000
FPA
FPB
00:00.00
29/12/2004
00:30.00
29/12/2004
01:00.00
29/12/2004
01:30.00
29/12/2004
02:00.00
29/12/2004
02:30.00
29/12/2004
Time


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:
value (%)
100
80
60
40
20
0
00:00.00 29/12/2004
00:30.00 29/12/2004
01:00.00 29/12/2004
01:30.00 29/12/2004
02:00.00 29/12/2004
02:30.00 29/12/2004
03:00.00 29/12/2004
03:30.00 29/12/2004
Time

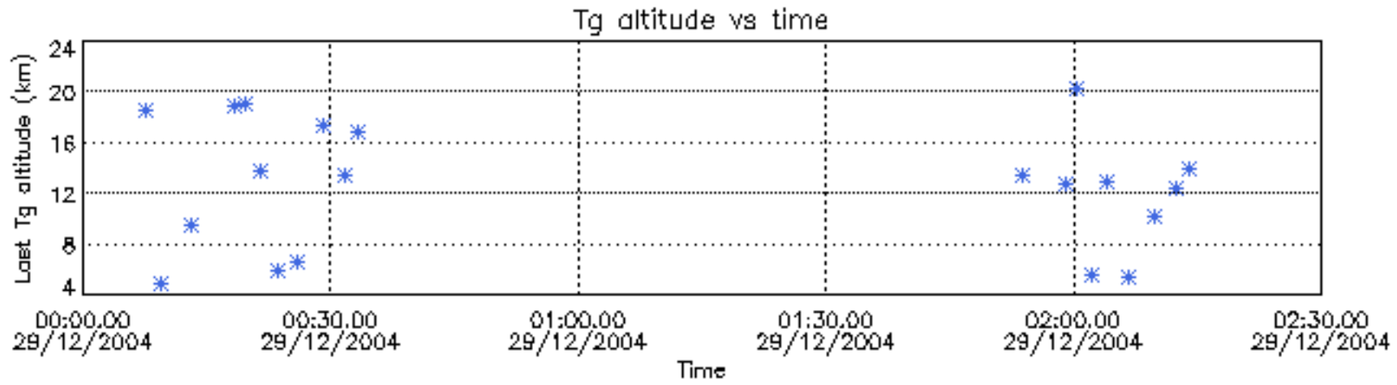

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−30
−60
−90

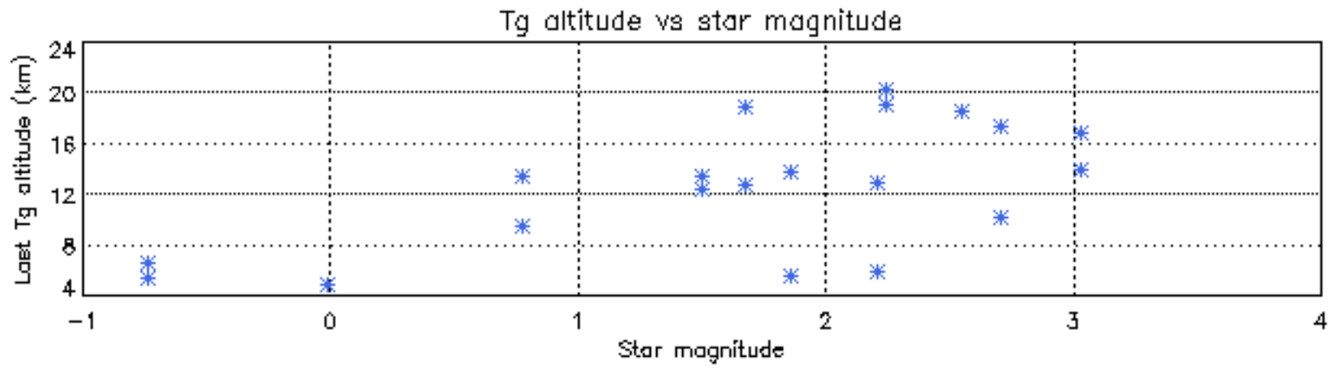

Percentage of datation errors per profile
1.400
1.200
1.000
0.8000
0.6000
0.4000
−135
−90
−30
−60
−90

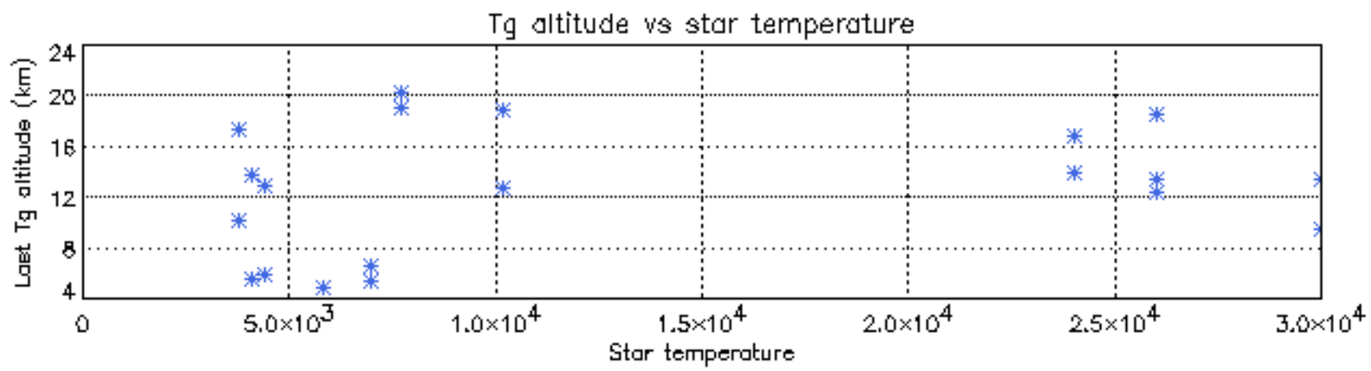

Percentage of star falling outside central band per profile
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90


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

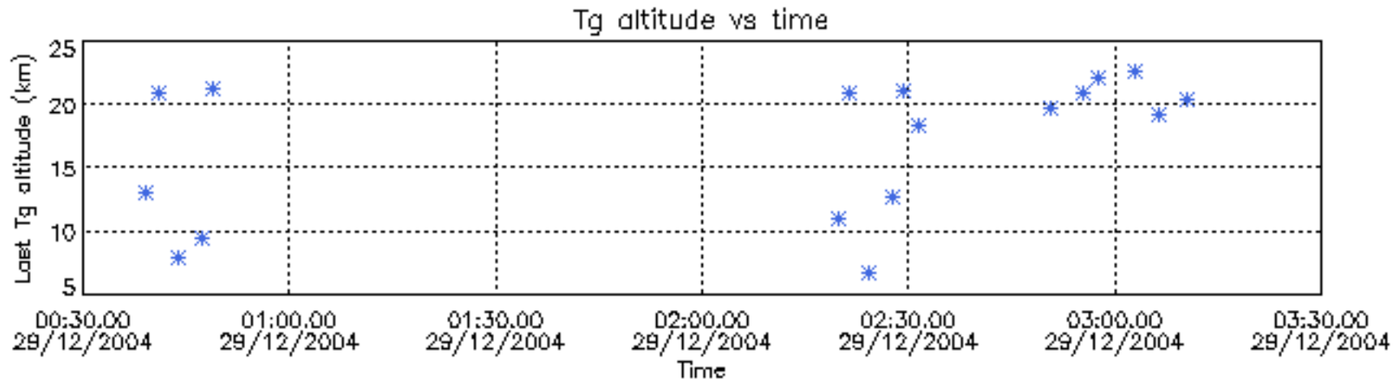
Tangent altitude at which the star is lost

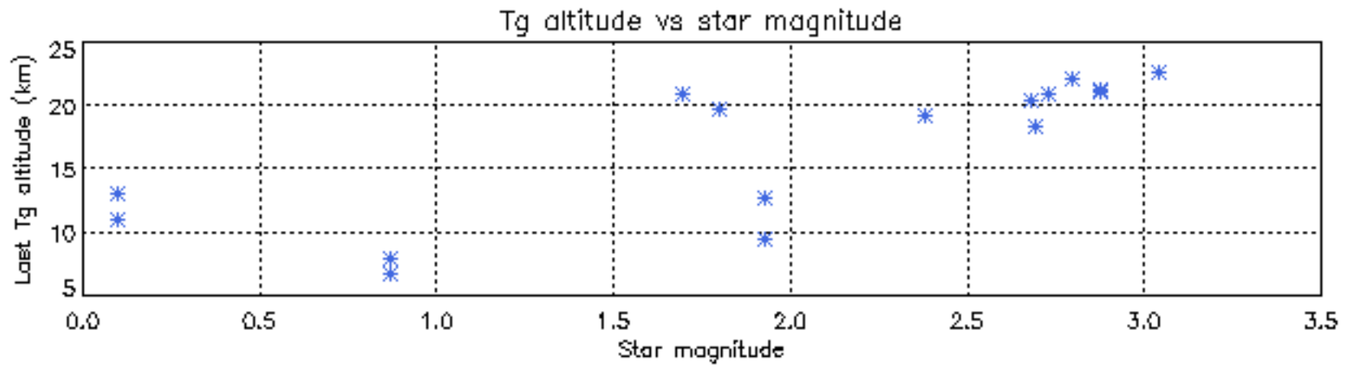


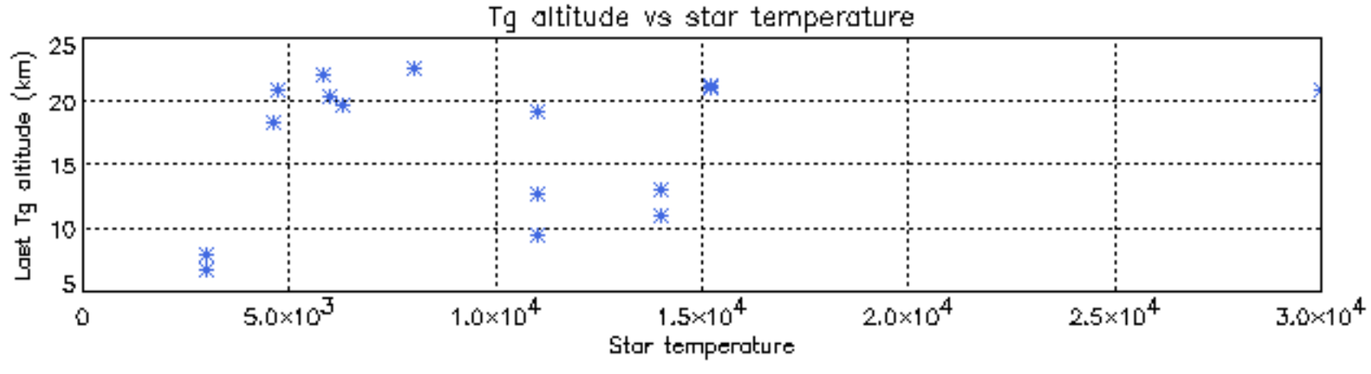




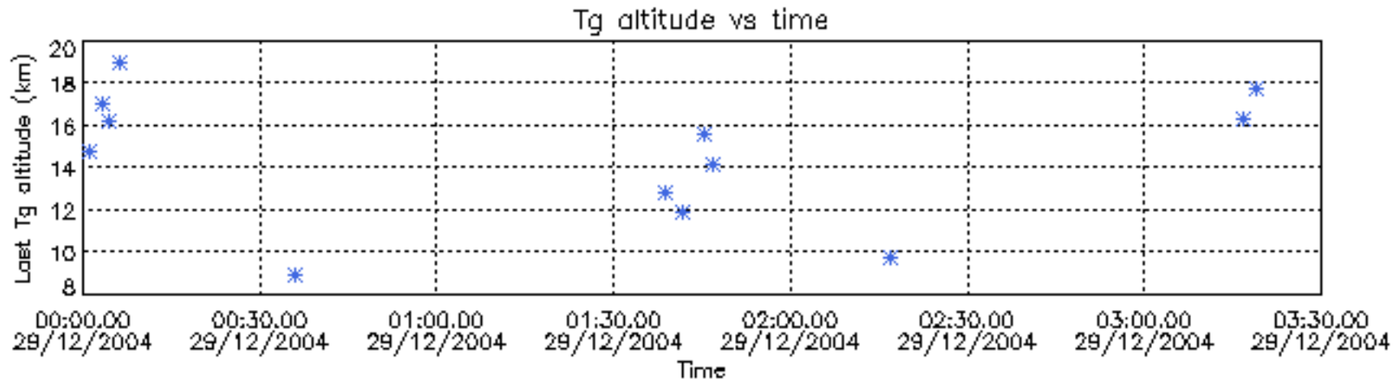
Tangent altitude at which the star is lost

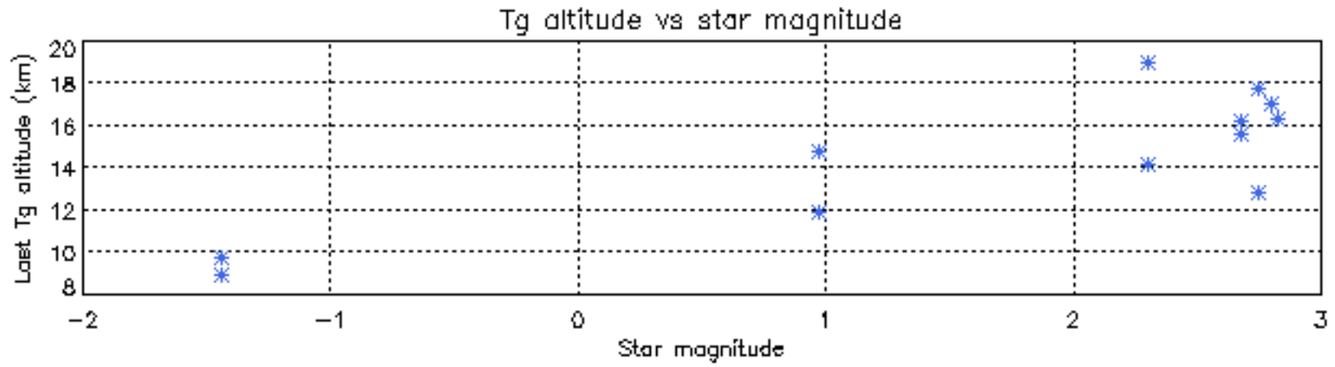


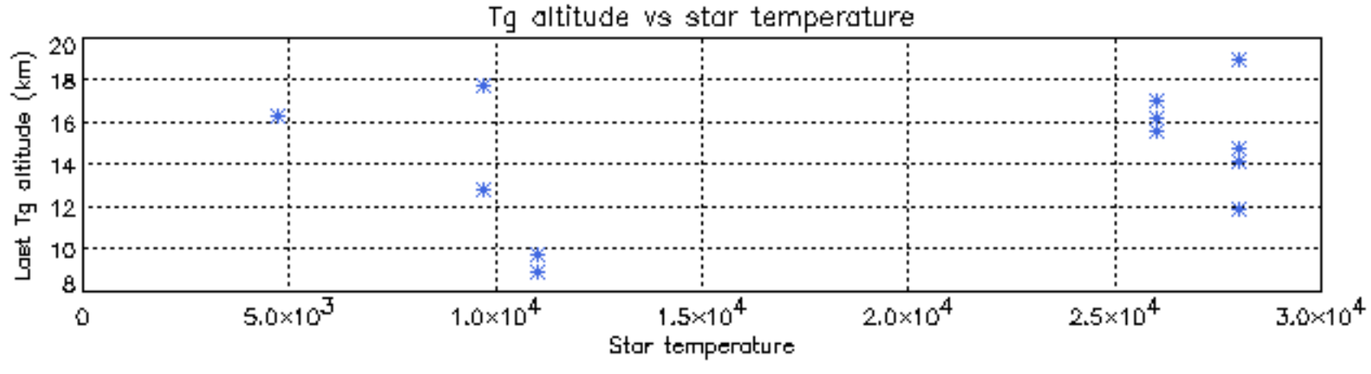




Tangent altitude at which the star is lost







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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
  18; 2325.2; 01-DEC-2004 02:08:15; Bright; 40.5; 146; 25Eta Tau ; 2.87; 15200;occ; 81;   0;14400
  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
  24; 3417.2; 01-DEC-2004 02:26:27; Bright; 37.0;   49; 1Alp UMi ; 1.99; 6300;occ; 74;   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
   3;-2121.5; 01-DEC-2004 02:34:44; Bright; 46.5;   82; 48Bet UMa ; 2.37; 10600;occ; 93;   0;14400
   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
   6;-1724.8; 01-DEC-2004 02:41:21; Bright; 52.0; 180; 27Gam Boo ; 3.04; 8000;occ; 104;   0;14400
   7;-1545.5; 01-DEC-2004 02:44:20; Bright; 39.5;   83;   ; 2.38; 11000;occ; 79;   0;14400
   8;-1390.8; 01-DEC-2004 02:46:55; Bright; 35.0;   3; 16Alp Boo ;-0.05; 4250;occ; 70;   0;14400
   9;-1171.0; 01-DEC-2004 02:50:35; Bright; 74.5;   96; 68Del Leo ; 2.56; 9300;occ; 149;   0;14400
  10; -914.8; 01-DEC-2004 02:54:51; Bright; 62.0; 121; 29Gam Vir ; 2.74; 7200;occ; 124;   0;14400
  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
  15; -74.7; 01-DEC-2004 03:08:51; Dark ; 48.5;   10;   Bet Cen ; 0.61; 28000;occ; 97;   0;14400
  16; 206.2; 01-DEC-2004 03:13:32; Dark ; 39.0; 124;   The Car ; 2.76; 30000;occ; 78;   0;14401
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  18; 484.6; 01-DEC-2004 03:18:10; Dark ; 49.0;   41;   Eps Car ; 1.86; 4100;occ; 98;   0;14401
  19; 608.3; 01-DEC-2004 03:20:14; Dark ; 59.5;   34;   Gam2Vel ; 1.79; 23000;occ; 119;   0;14401
  20; 807.5; 01-DEC-2004 03:23:33; Dark ; 58.0;   2;   Alp Car ;-0.74; 7000;occ; 116;   0;14401
  21; 919.8; 01-DEC-2004 03:25:25; Dark ; 67.5; 117;   Pi Pup ; 2.71; 3800;occ; 135;   0;14401
  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
  30; 2465.1; 01-DEC-2004 03:51:11; Bright; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84;   0;14401
  31; 2600.6; 01-DEC-2004 03:53:26; Bright; 41.5;   79; 26Bet Per ; 2.31; 13100;occ; 83;   0;14401
  32; 2734.9; 01-DEC-2004 03:55:40; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76;   0;14401
  33; 2815.1; 01-DEC-2004 03:57:01; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74;   0;14401
  34; 2957.0; 01-DEC-2004 03:59:22; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;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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