

# GOMOS Daily Report 06-APR-2006

## Level 0 and Level 1 products

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## [Level 2 products](#)

### 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	11APR2006 04:34:38

Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-5D (06APR2006 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-5D (07APR2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	6
Nb of prods with errors	0

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

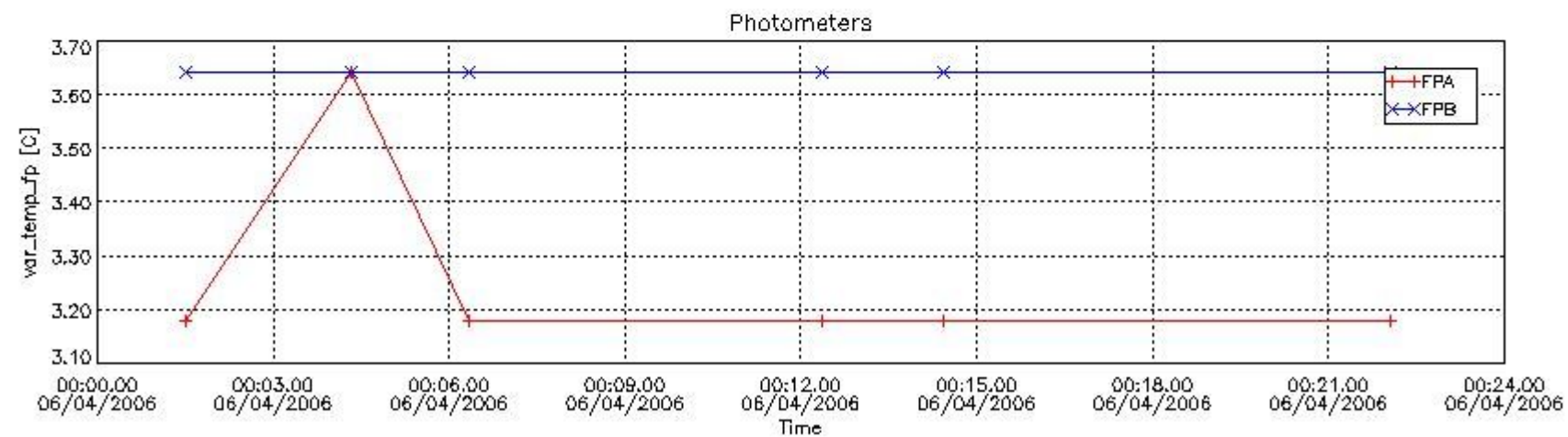
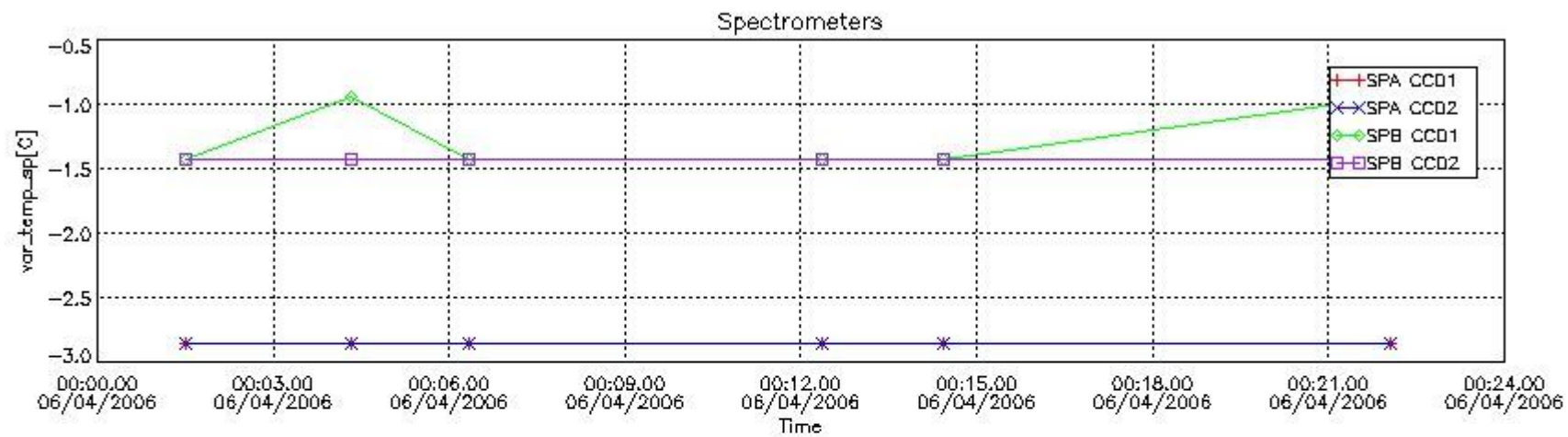
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 Summary of processed GOM\_TRA\_1P products

**!Warning: No products without errors in DARK limb contitions found**

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20060406_000129_000000362046_00331_21427_0011.N1	06-APR-2006 00:01:29	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	21427	No
2	GOM_TRA_1PNPDE20060406_000420_000000362046_00331_21427_0012.N1	06-APR-2006 00:04:20	Bright	35.500	87	64Gam UMa	2.4330	11000.	71	21427	No
3	GOM_TRA_1PNPDE20060406_000620_000000362046_00331_21427_0013.N1	06-APR-2006 00:06:20	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	21427	No
4	GOM_TRA_1PNPDE20060406_001221_000000402046_00331_21427_0014.N1	06-APR-2006 00:12:21	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	21427	No
5	GOM_TRA_1PNPDE20060406_001426_000000352046_00331_21427_0015.N1	06-APR-2006 00:14:26	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	21427	No
6	GOM_TRA_1PNPDE20060406_002202_000000382046_00331_21427_0016.N1	06-APR-2006 00:22:02	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	21427	No

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



## 4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

#### *4.1 All products used the DSA observation for the DC computation*

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

No products without errors in DARK limb contitions found. No plot performed.

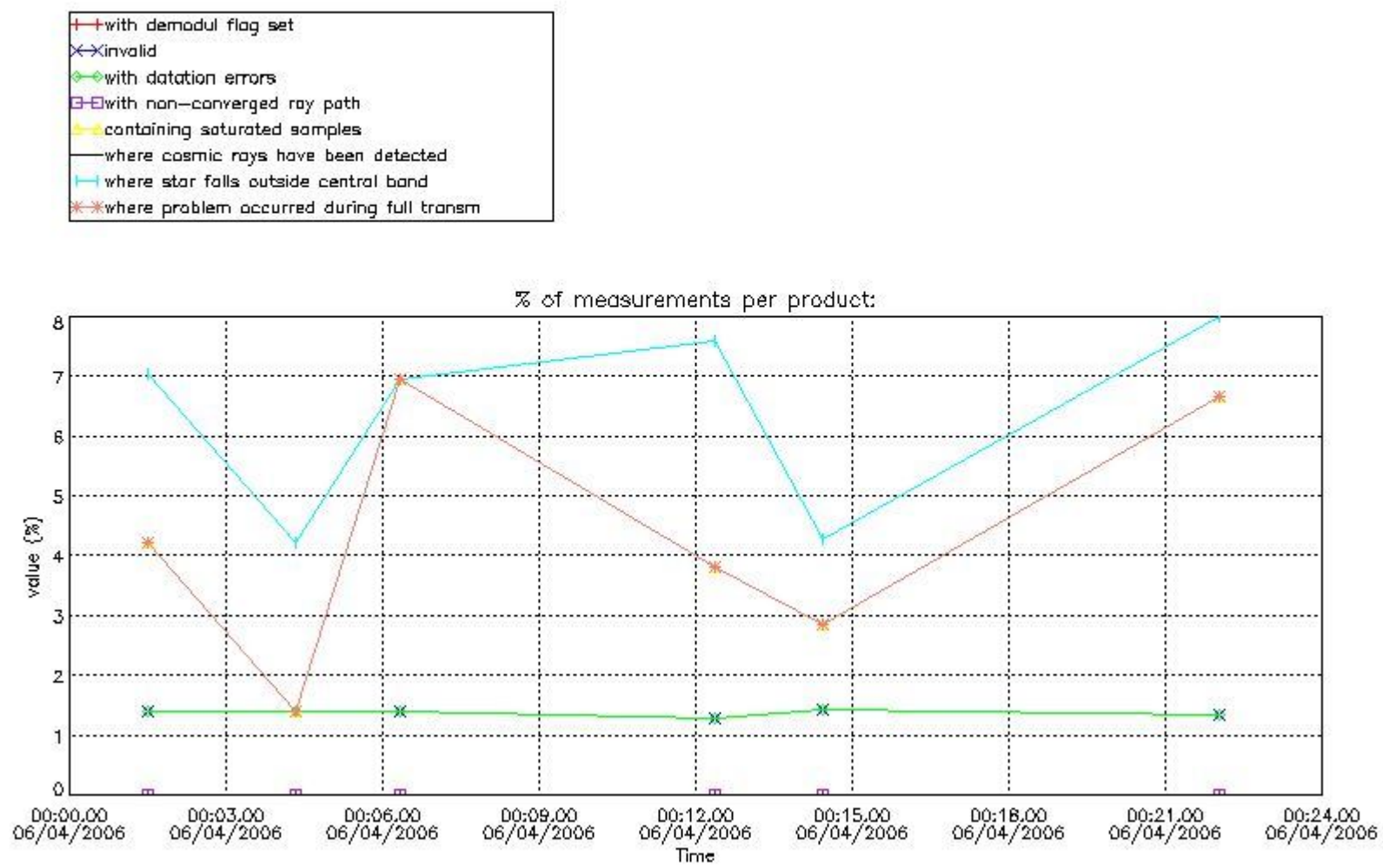
### 5. Demodulation flag and quality information monitoring

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.

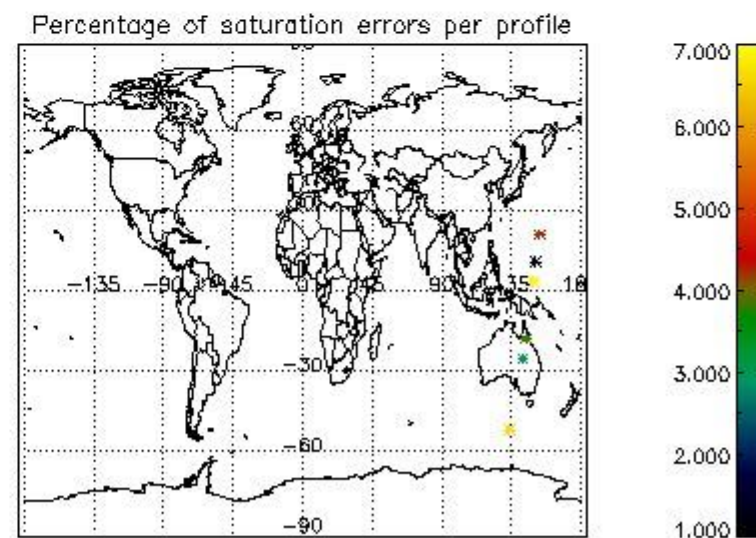
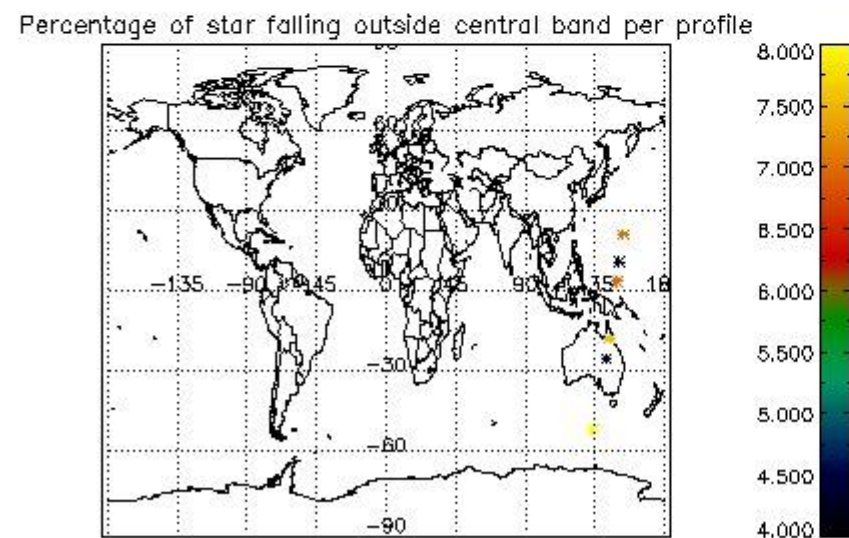
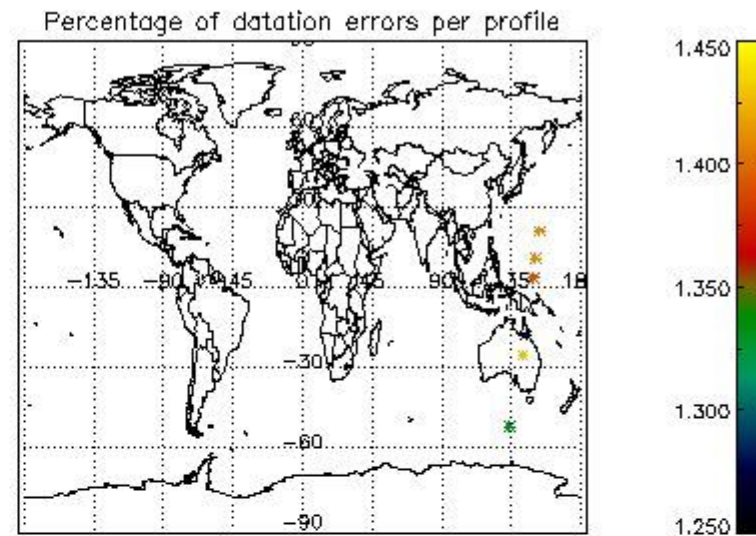
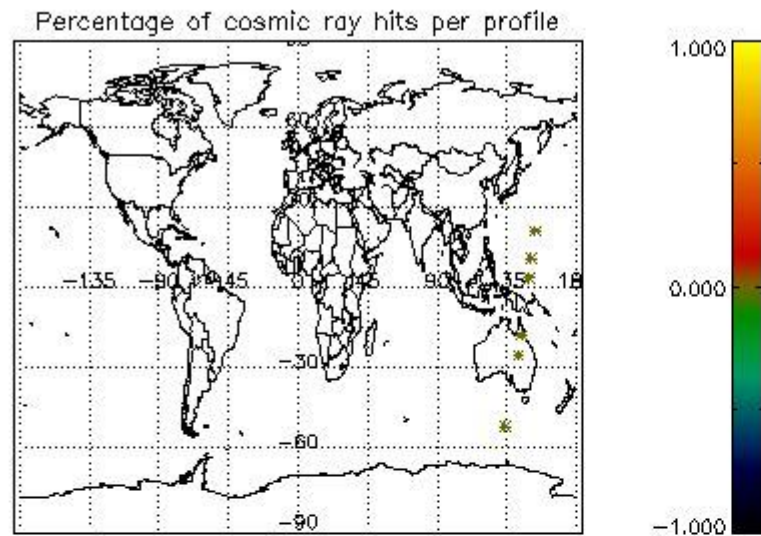
#### *5.1 Percentage of products during reporting period with:*

At least one measurement with demodulation flag set:	0.00000 %
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)



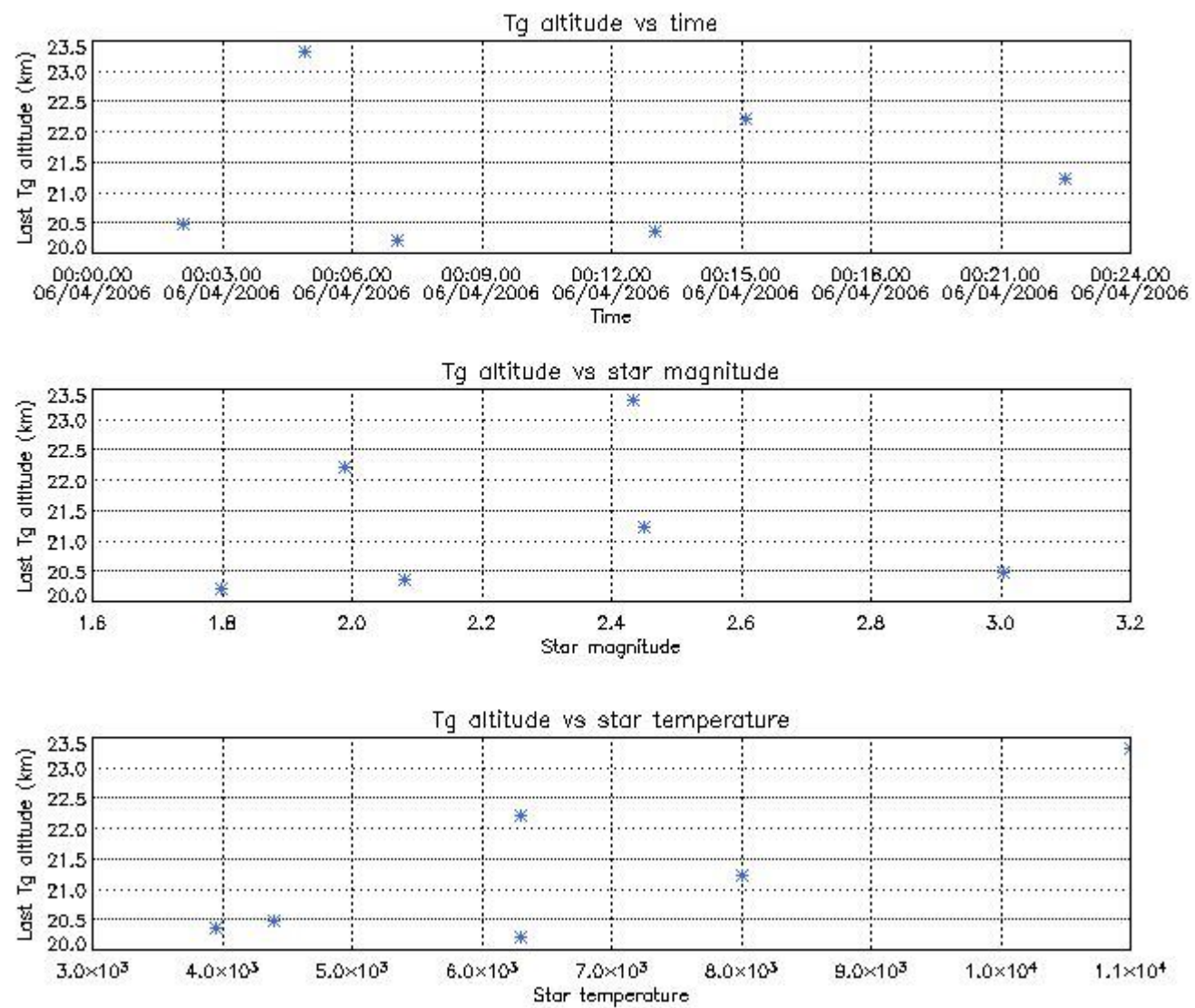
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	NaN	21.301	NaN
St. deviation:	NaN	1.2395	NaN
Maximum:	NaN	23.313	NaN
Minimum:	NaN	20.212	NaN
Number of data:	NaN	6.0000	NaN

### 6.3 Plot for BRIGHT 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

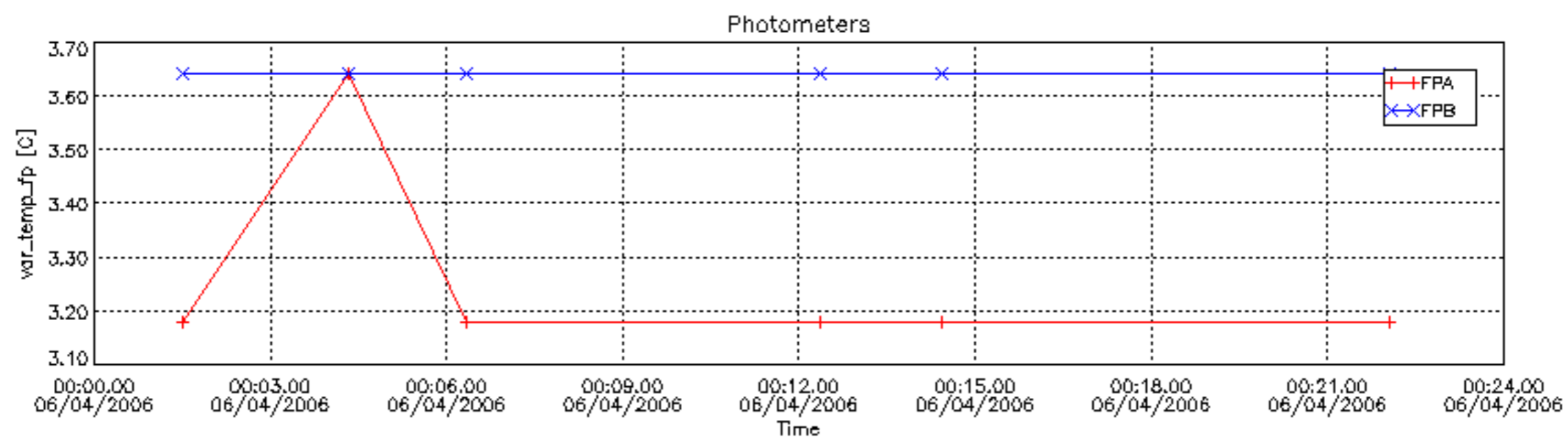
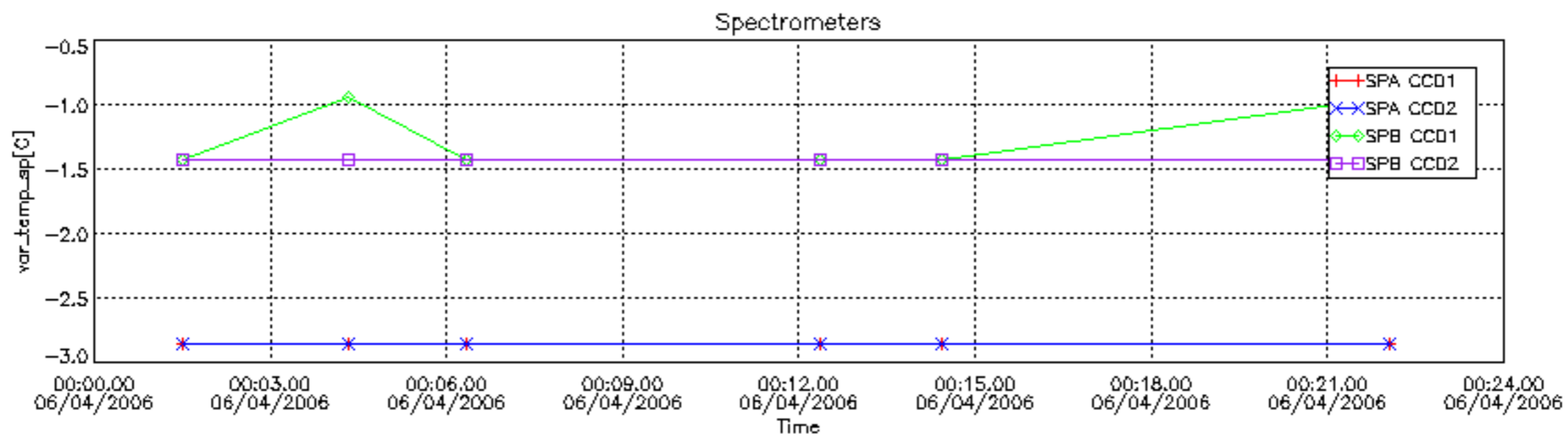
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	NaN	NaN	1461.1	1446.4
St. deviation:	NaN	NaN	6.1279	7.4147
Maximum:	NaN	NaN	1498.0	1482.0
Minimum:	NaN	NaN	1437.0	1417.0
Number of data:	NaN	NaN	4900.0	4900.0

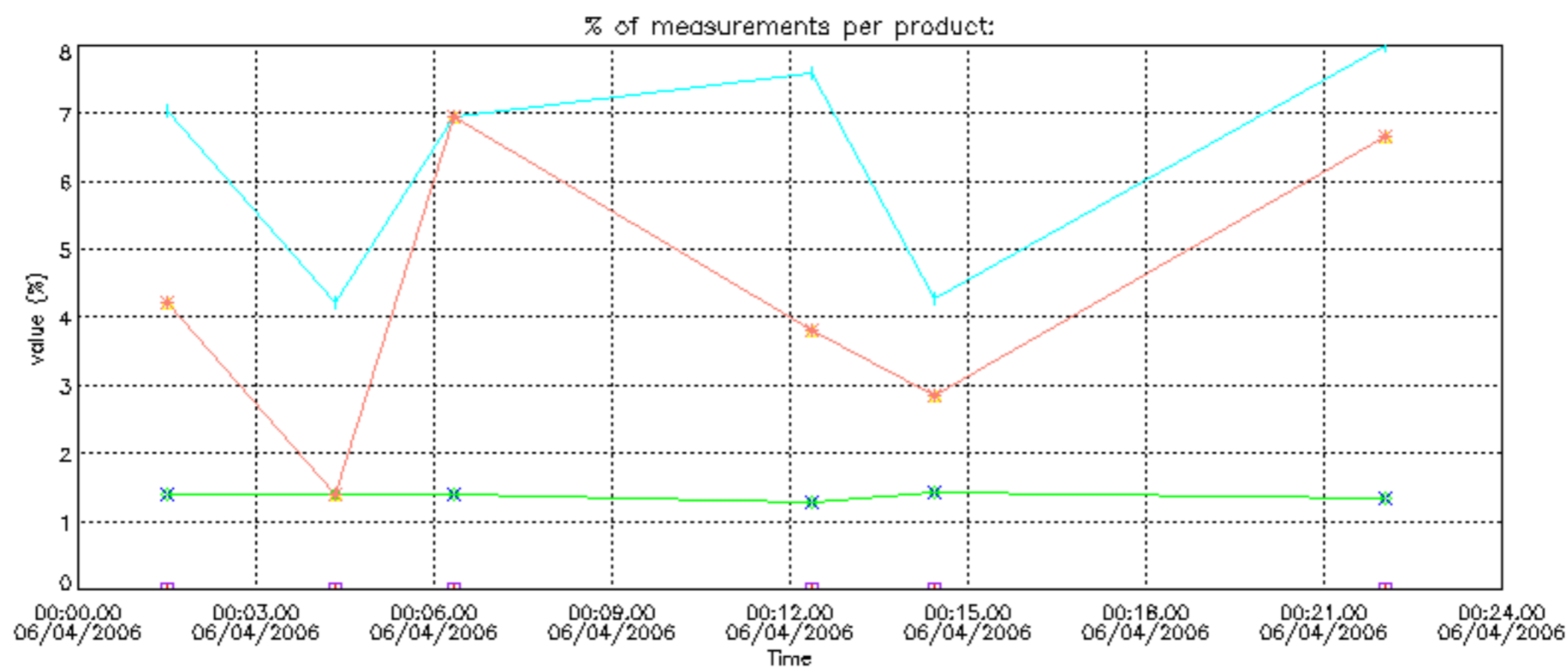
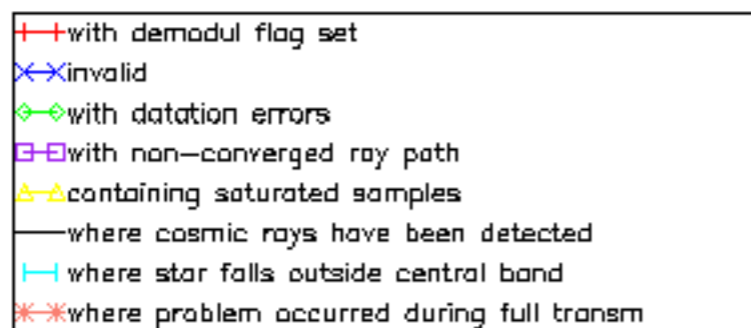
## 8. Auxiliary Data Files used for the production reported in section 2.2

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.

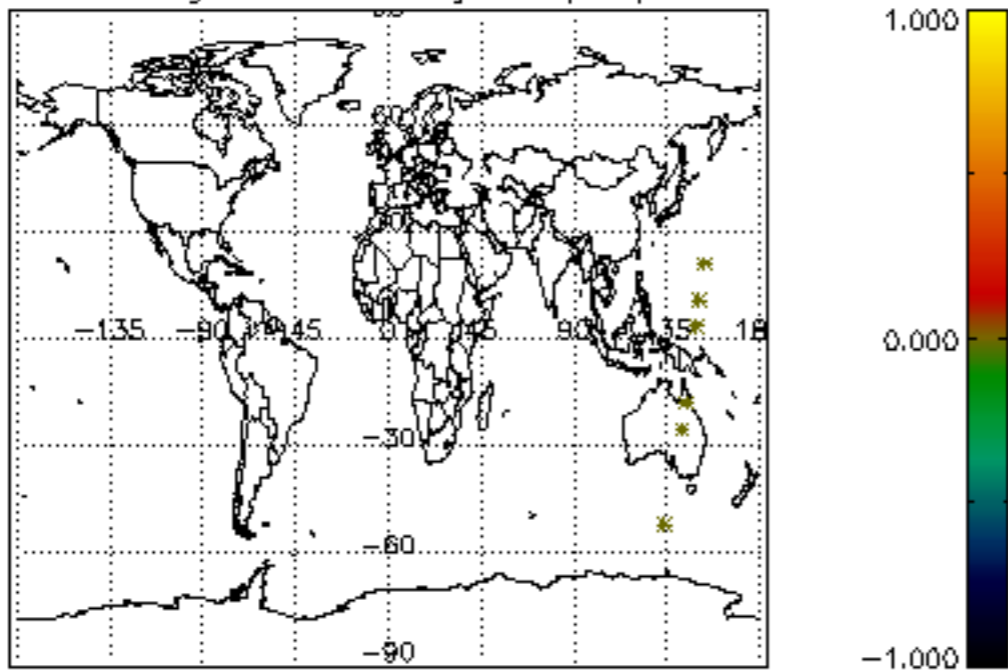
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	06-APR-2006 00:01:29
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060331_091607_20060329_000000_20100101_000000	1	06-APR-2006 00:01:29
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	06-APR-2006 00:01:29
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-APR-2006 00:01:29
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	06-APR-2006 00:01:29
ECMWF_FILE	AUX_ECA_AXNECM20060406_061246_20060405_210000_20060406_090000	1	06-APR-2006 00:01:29
OPTIONAL_ECMWF_FILE	NOT USED	1	06-APR-2006 00:01:29
ORBIT_DATA_FILE	AUX_FRO_AXVPDS20060408_232100_20060405_221000_20060408_005000	1	06-APR-2006 00:01:29



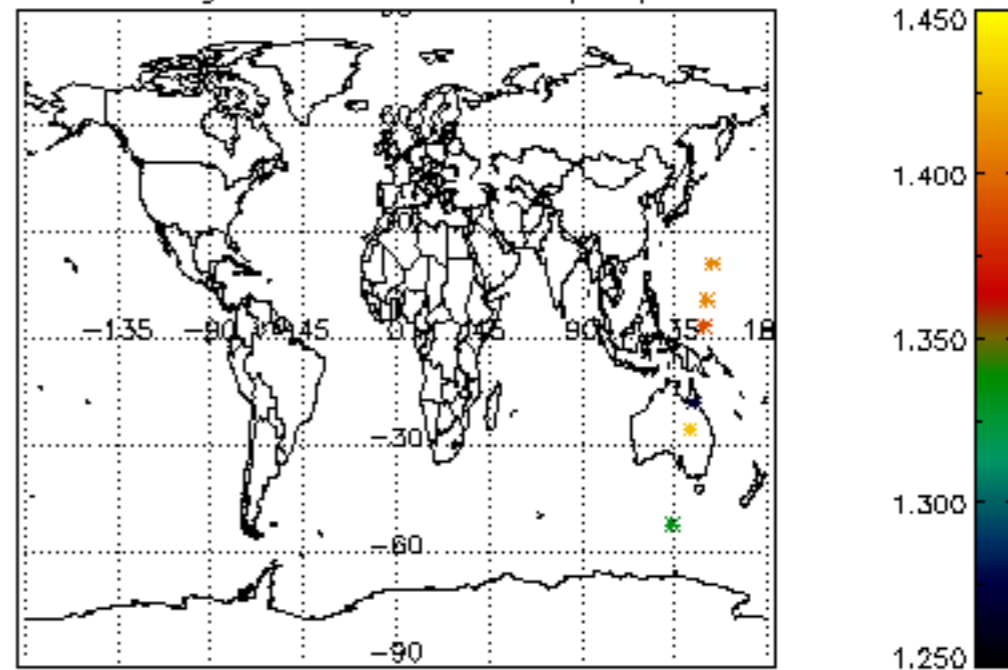




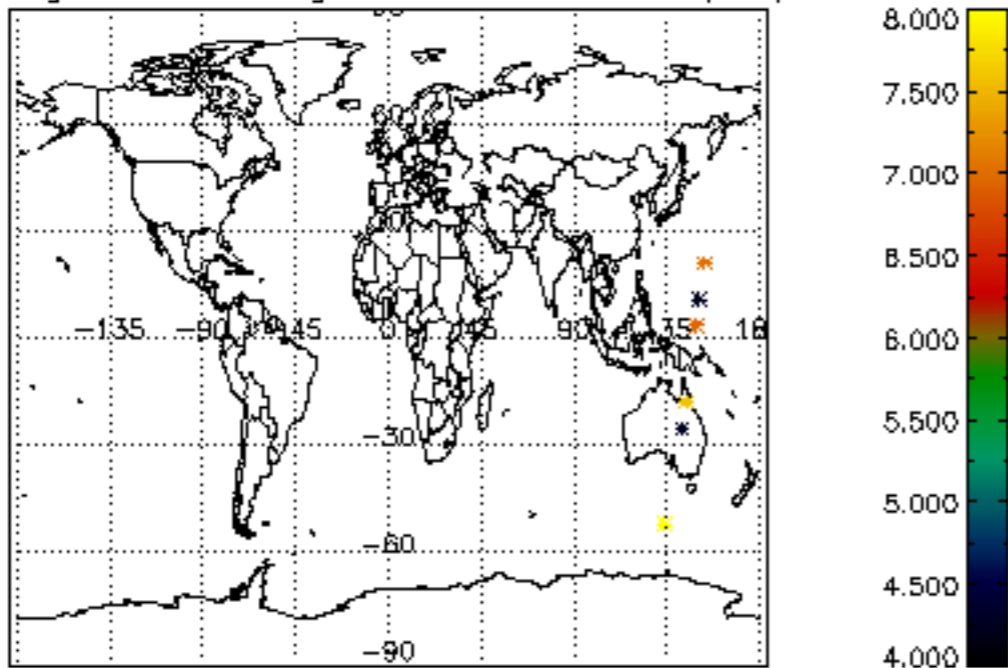
Percentage of cosmic ray hits per profile



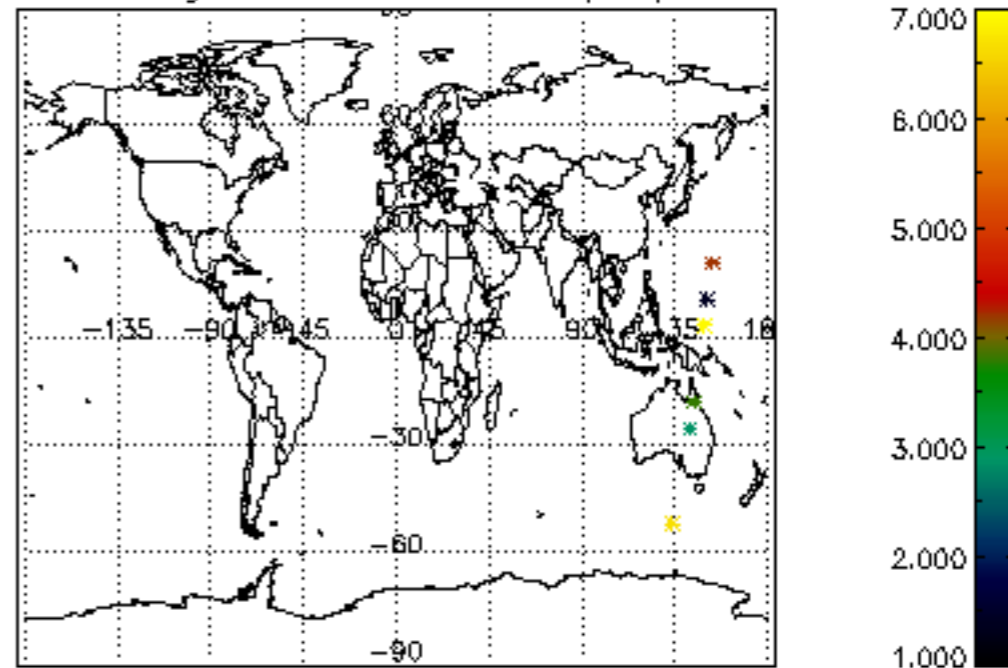
Percentage of datation errors per profile



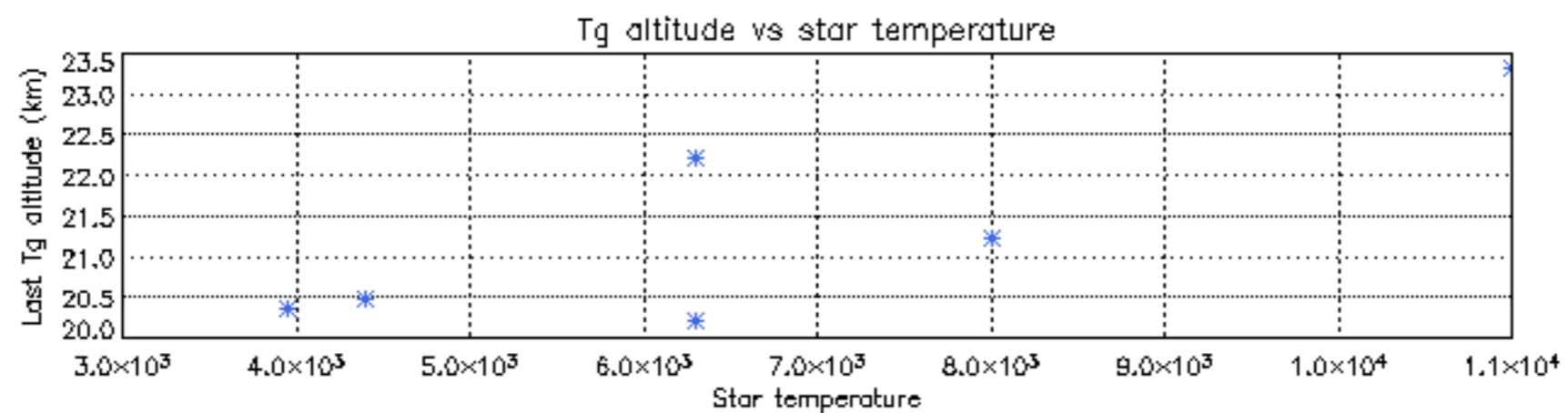
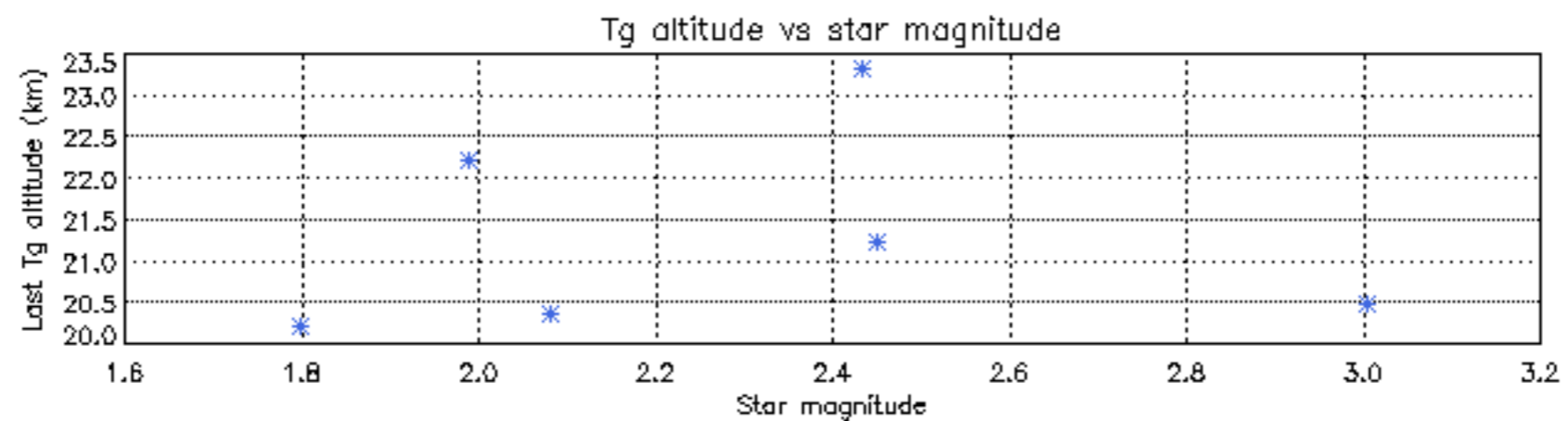
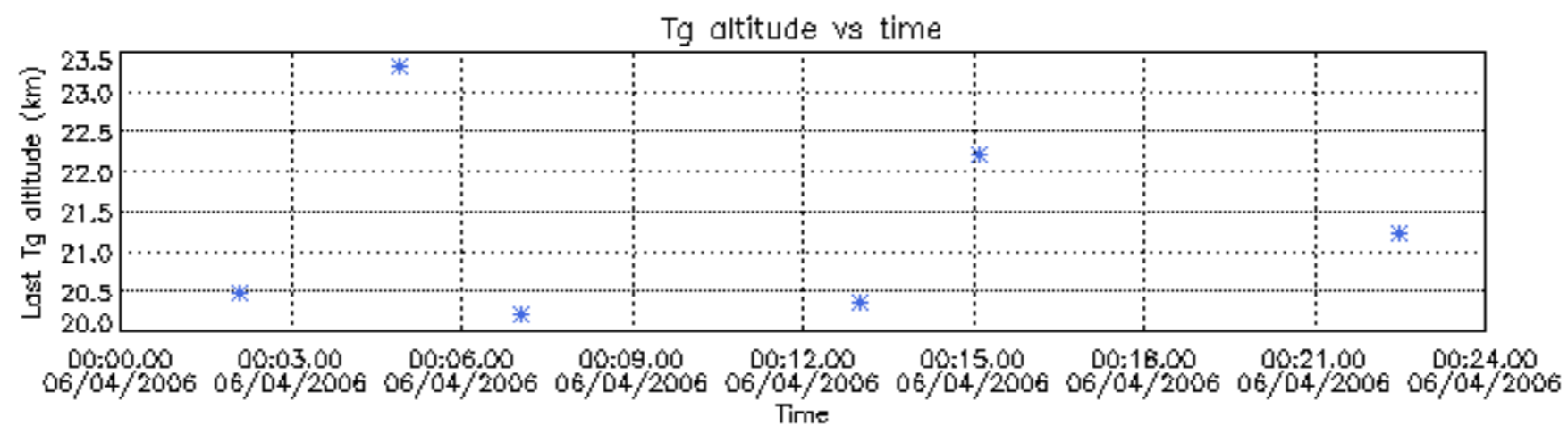
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



Tangent altitude at which the star is lost



/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20060401\_000916\_000054592046\_00259\_21355\_0159.N1

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 2; 332.0; 01-APR-2006 00:20:05; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;21356  
 3; 514.9; 01-APR-2006 00:23:08; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;21356  
 4; 673.5; 01-APR-2006 00:25:46; Dark ; 55.0; 4; Alp1Cen ;-0.01; 5800;occ; 110; 0;21356  
 5; 837.9; 01-APR-2006 00:28:31; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;21356  
 6; 934.0; 01-APR-2006 00:30:07; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;21356  
 7; 1013.9; 01-APR-2006 00:31:27; Dark ; 38.5; 64; Gam Cen ; 2.20; 10600;occ; 77; 0;21356  
 8; 1167.7; 01-APR-2006 00:34:00; Dark ; 44.0; 123; Iot Cen ; 2.75; 10200;occ; 88; 0;21356  
 9; 1459.7; 01-APR-2006 00:38:52; Dark ; 46.5; 106; 9Bet Crv ; 2.65; 5600;occ; 93; 0;21356  
 10; 1577.8; 01-APR-2006 00:40:50; Dark ; 40.5; 100; 4Gam Crv ; 2.58; 13100;occ; 81; 0;21356  
 11; 2160.9; 01-APR-2006 00:50:34; Bright; 39.0; 62; 94Bet Leo ; 2.14; 9700;occ; 78; 0;21356  
 12; 2256.9; 01-APR-2006 00:52:10; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21356  
 13; 2666.3; 01-APR-2006 00:58:59; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;21356  
 14; 2848.6; 01-APR-2006 01:02:01; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;21356  
 15; 2958.0; 01-APR-2006 01:03:51; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;21356  
 16; 3338.5; 01-APR-2006 01:10:11; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;21356  
 17; 3439.7; 01-APR-2006 01:11:52; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;21356  
 18; 3902.0; 01-APR-2006 01:19:35; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;21356  
 19; 4213.6; 01-APR-2006 01:24:46; Bright; 42.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 85; 0;21356  
 20; 4434.0; 01-APR-2006 01:28:27; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;21356  
 21; 4826.3; 01-APR-2006 01:34:59; Dark ; 45.5; 61; 8Eps Peg ; 2.10; 3900;occ; 91; 0;21356  
 22; 5101.6; 01-APR-2006 01:39:34; Dark ; 42.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 85; 0;21356

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 7; 6970.6; 01-APR-2006 02:10:43; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;21356  
 8; 7050.1; 01-APR-2006 02:12:03; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;21356  
 9; 7204.0; 01-APR-2006 02:14:37; Dark ; 45.0; 123; Iot Cen ; 2.75; 10200;occ; 90; 0;21356  
 10; 7495.8; 01-APR-2006 02:19:28; Dark ; 46.0; 106; 9Bet Crv ; 2.65; 5600;occ; 92; 0;21356  
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 13; 8292.9; 01-APR-2006 02:32:45; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21356  
 14; 8702.1; 01-APR-2006 02:39:35; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;21356  
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 16; 8993.9; 01-APR-2006 02:44:27; Bright; 35.0; 36; 50Alp UMa ; 1.80; 6300;occ; 70; 0;21356  
 17; 9374.1; 01-APR-2006 02:50:47; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;21356  
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 4; -1209.3; 01-APR-2006 03:15:35; Dark ; 46.0; 61; 8Eps Peg ; 2.10; 3900;occ; 92; 0;21357  
 5; -934.0; 01-APR-2006 03:20:10; Dark ; 39.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 79; 0;21357  
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 7; 333.6; 01-APR-2006 03:41:18; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;21358  
 8; 516.0; 01-APR-2006 03:44:20; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21358  
 9; 674.6; 01-APR-2006 03:46:59; Dark ; 54.5; 4; Alp1Cen ;-0.01; 5800;occ; 109; 0;21358  
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 12; 1014.8; 01-APR-2006 03:52:39; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;21358  
 13; 1168.5; 01-APR-2006 03:55:13; Dark ; 45.5; 123; Iot Cen ; 2.75; 10200;occ; 91; 0;21358  
 14; 1460.2; 01-APR-2006 04:00:05; Dark ; 47.5; 106; 9Bet Crv ; 2.65; 5600;occ; 95; 0;21358  
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 17; 2257.1; 01-APR-2006 04:13:22; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21358  
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 19; 2848.4; 01-APR-2006 04:23:13; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;21358  
 20; 2958.0; 01-APR-2006 04:25:02; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;21358  
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 2; -1822.3; 01-APR-2006 04:45:58; Bright; 42.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 85; 0;21358

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3;-1601.8; 01-APR-2006 04:49:39; Bright; 43.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 87; 0;21358
4;-1209.0; 01-APR-2006 04:56:12; Dark ; 42.5; 61; 8Eps Peg ; 2.10; 3900;occ; 85; 0;21358
5; -933.6; 01-APR-2006 05:00:47; Dark ; 41.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 83; 0;21358
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7; 334.3; 01-APR-2006 05:21:55; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;21359
8; 516.5; 01-APR-2006 05:24:57; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;21359
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16; 6555.2; 01-APR-2006 13:47:59; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;21363
17; 6713.3; 01-APR-2006 13:50:38; Dark ; 40.0; 4; Alp1Cen ;-0.01; 5800;occ; 80; 0;21363
18; 6879.0; 01-APR-2006 13:53:23; Dark ; 43.5; 78; Alp Lup ; 2.30; 28000;occ; 87; 0;21363
19; 7052.5; 01-APR-2006 13:56:17; Dark ; 38.0; 64; Gam Cen ; 2.20; 10600;occ; 76; 0;21363
20; 7207.0; 01-APR-2006 13:58:51; Dark ; 42.5; 123; Tot Cen ; 2.75; 10200;occ; 85; 0;21363
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3;-3875.8; 01-APR-2006 14:15:20; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;21364
4;-3778.9; 01-APR-2006 14:16:57; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21364
5;-3370.0; 01-APR-2006 14:23:46; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;21364
6;-3189.1; 01-APR-2006 14:26:47; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;21364
7;-3078.3; 01-APR-2006 14:28:38; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;21364
8;-2700.0; 01-APR-2006 14:34:56; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;21364
9;-2596.0; 01-APR-2006 14:36:40; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;21364
10;-2134.3; 01-APR-2006 14:44:22; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;21364
11;-1822.4; 01-APR-2006 14:49:34; Bright; 41.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 82; 0;21364
12;-1600.9; 01-APR-2006 14:53:15; Bright; 44.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 88; 0;21364
13;-1207.3; 01-APR-2006 14:59:49; Dark ; 44.0; 61; 8Eps Peg ; 2.10; 3900;occ; 88; 0;21364
14;-931.3; 01-APR-2006 15:04:25; Dark ; 43.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 86; 0;21364
15;-309.0; 01-APR-2006 15:14:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;21364
16; 338.7; 01-APR-2006 15:25:35; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;21365
17; 519.7; 01-APR-2006 15:28:36; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;21365
18; 677.9; 01-APR-2006 15:31:14; Dark ; 42.5; 4; Alp1Cen ;-0.01; 5800;occ; 85; 0;21365
19; 843.7; 01-APR-2006 15:34:00; Dark ; 42.5; 78; Alp Lup ; 2.30; 28000;occ; 85; 0;21365
20; 1016.9; 01-APR-2006 15:36:53; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;21365
21; 1171.3; 01-APR-2006 15:39:27; Dark ; 43.0; 123; Tot Cen ; 2.75; 10200;occ; 86; 0;21365

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 13;-1600.4; 01-APR-2006 16:33:51; Bright; 42.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 85; 0;21365  
 14;-1206.6; 01-APR-2006 16:40:25; Dark ; 45.5; 61; 8Eps Peg ; 2.10; 3900;occ; 91; 0;21365  
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 16; -307.6; 01-APR-2006 16:55:24; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;21365  
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 18; 520.7; 01-APR-2006 17:09:12; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;21366  
 19; 678.8; 01-APR-2006 17:11:50; Dark ; 45.5; 4; Alp1Cen ; -0.01; 5800;occ; 91; 0;21366  
 20; 844.8; 01-APR-2006 17:14:36; Dark ; 45.0; 78; Alp Lup ; 2.30; 28000;occ; 90; 0;21366  
 21; 1017.7; 01-APR-2006 17:17:29; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;21366

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 6;-3778.9; 01-APR-2006 17:38:09; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21366  
 7;-3370.2; 01-APR-2006 17:44:58; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;21366  
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 12;-2134.4; 01-APR-2006 18:05:34; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;21366  
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 19; 520.6; 01-APR-2006 18:49:49; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21367  
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 21; 845.0; 01-APR-2006 18:55:13; Dark ; 43.5; 78; Alp Lup ; 2.30; 28000;occ; 87; 0;21367  
 22; 1017.5; 01-APR-2006 18:58:06; Dark ; 39.0; 64; Gam Cen ; 2.20; 10600;occ; 78; 0;21367

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 14;-1600.7; 01-APR-2006 19:55:04; Bright; 42.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 84; 0;21367  
 15;-1206.6; 01-APR-2006 20:01:38; Dark ; 46.5; 61; 8Eps Peg ; 2.10; 3900;occ; 93; 0;21367  
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 19; 521.1; 01-APR-2006 20:30:25; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21368  
 20; 679.2; 01-APR-2006 20:33:03; Dark ; 54.5; 4; Alp1Cen ; -0.01; 5800;occ; 109; 0;21368  
 21; 845.5; 01-APR-2006 20:35:50; Dark ; 47.5; 78; Alp Lup ; 2.30; 28000;occ; 95; 0;21368  
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 3; 522.7; 02-APR-2006 01:32:15; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;21371  
 4; 680.5; 02-APR-2006 01:34:52; Dark ; 48.0; 4; Alp1Cen ;-0.01; 5800;occ; 96; 0;21371  
 5; 847.3; 02-APR-2006 01:37:39; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;21371  
 6; 1018.7; 02-APR-2006 01:40:31; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;21371  
 7; 1173.4; 02-APR-2006 01:43:05; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;21371  
 8; 1462.8; 02-APR-2006 01:47:55; Dark ; 43.0; 106; 9Bet Crv ; 2.65; 5600;occ; 86; 0;21371  
 9; 1579.9; 02-APR-2006 01:49:52; Dark ; 40.5; 100; 4Gam Crv ; 2.58; 13100;occ; 81; 0;21371  
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 11; 2257.1; 02-APR-2006 02:01:09; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21371  
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 13; 2845.4; 02-APR-2006 02:10:57; Bright; 38.5; 87; 64Gam UMa ; 2.43; 11000;occ; 77; 0;21371  
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 7; 344.0; 02-APR-2006 03:09:52; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;21372  
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 18; 2845.2; 02-APR-2006 03:51:33; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;21372  
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 3;-1600.3; 02-APR-2006 04:18:04; Bright; 43.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 87; 0;21372  
 4;-1205.1; 02-APR-2006 04:24:39; Dark ; 43.5; 61; 8Eps Peg ; 2.10; 3900;occ; 87; 0;21372  
 5; -928.4; 02-APR-2006 04:29:15; Dark ; 42.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 85; 0;21372  
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 7; 344.6; 02-APR-2006 04:50:28; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;21373  
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2;-4157.0; 04-APR-2006 12:35:49; Bright; 41.5; 121; 29Gam Vir ; 2.74; 7200;occ; 83; 0;21406
3;-3878.6; 04-APR-2006 12:40:27; Bright; 37.0; 62; 94Bet Leo ; 2.14; 9700;occ; 74; 0;21406
4;-3777.6; 04-APR-2006 12:42:08; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21406

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5;-3371.3; 04-APR-2006 12:48:54; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;21406  
6;-3197.3; 04-APR-2006 12:51:48; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;21406  
7;-3079.7; 04-APR-2006 12:53:46; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;21406  
8;-2713.2; 04-APR-2006 12:59:52; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;21406  
9;-2595.0; 04-APR-2006 13:01:51; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;21406  
10;-2136.8; 04-APR-2006 13:09:29; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;21406  
11;-1823.8; 04-APR-2006 13:14:42; Bright; 42.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 84; 0;21406  
12;-1194.7; 04-APR-2006 13:25:11; Dark ; 47.5; 61; 8Eps Peg ; 2.10; 3900;occ; 95; 0;21406  
13;-1045.3; 04-APR-2006 13:27:40; Dark ; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;21406  
14; -914.3; 04-APR-2006 13:29:51; Dark ; 43.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 87; 0;21406  
15; -762.3; 04-APR-2006 13:32:23; Dark ; 40.0; 142; 49Del Cap ; 2.85; 8900;occ; 80; 0;21406  
16; -272.4; 04-APR-2006 13:40:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;21406  
17; 370.2; 04-APR-2006 13:51:16; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;21407  
18; 541.6; 04-APR-2006 13:54:07; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;21407  
19; 697.4; 04-APR-2006 13:56:43; Dark ; 44.5; 4; Alp1Cen ;-0.01; 5800;occ; 89; 0;21407  
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21; 966.0; 04-APR-2006 14:01:12; Dark ; 45.5; 81; Eta Cen ; 2.36; 28000;occ; 91; 0;21407  
22; 1124.6; 04-APR-2006 14:03:50; Dark ; 55.0; 54; 5The Cen ; 2.06; 4500;occ; 110; 0;21407

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2;-4450.5; 04-APR-2006 14:11:31; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;21407  
3;-4157.1; 04-APR-2006 14:16:24; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;21407  
4;-3878.7; 04-APR-2006 14:21:03; Bright; 37.0; 62; 94Bet Leo ; 2.14; 9700;occ; 74; 0;21407  
5;-3777.5; 04-APR-2006 14:22:44; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21407  
6;-3371.5; 04-APR-2006 14:29:30; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;21407  
7;-3197.6; 04-APR-2006 14:32:24; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;21407  
8;-3079.7; 04-APR-2006 14:34:22; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;21407  
9;-2713.5; 04-APR-2006 14:40:28; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;21407  
10;-2594.9; 04-APR-2006 14:42:27; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;21407  
11;-2136.9; 04-APR-2006 14:50:05; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;21407  
12;-1823.8; 04-APR-2006 14:55:18; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;21407  
13;-1194.5; 04-APR-2006 15:05:47; Dark ; 47.0; 61; 8Eps Peg ; 2.10; 3900;occ; 94; 0;21407  
14;-1045.0; 04-APR-2006 15:08:17; Dark ; 42.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 84; 0;21407  
15; -913.8; 04-APR-2006 15:10:28; Dark ; 45.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 91; 0;21407  
16; -761.8; 04-APR-2006 15:13:00; Dark ; 42.0; 142; 49Del Cap ; 2.85; 8900;occ; 84; 0;21407  
17; -271.5; 04-APR-2006 15:21:10; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;21407  
18; 371.0; 04-APR-2006 15:31:53; Dark ; 45.5; 141; Bet Ara ; 2.84; 4600;occ; 91; 0;21408  
19; 542.1; 04-APR-2006 15:34:44; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;21408  
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21; 870.1; 04-APR-2006 15:40:12; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;21408  
22; 966.5; 04-APR-2006 15:41:48; Dark ; 45.0; 81; Eta Cen ; 2.36; 28000;occ; 90; 0;21408  
23; 1125.2; 04-APR-2006 15:44:27; Dark ; 52.5; 54; 5The Cen ; 2.06; 4500;occ; 105; 0;21408

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3;-4450.9; 04-APR-2006 15:52:07; Dark ; 41.0; 100; 4Gam Crv ; 2.58; 13100;occ; 82; 0;21408  
4;-4157.8; 04-APR-2006 15:57:00; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;21408  
5;-3879.4; 04-APR-2006 16:01:39; Bright; 37.0; 62; 94Bet Leo ; 2.14; 9700;occ; 74; 0;21408  
6;-3778.3; 04-APR-2006 16:03:20; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21408  
7;-3372.1; 04-APR-2006 16:10:06; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;21408  
8;-3198.3; 04-APR-2006 16:13:00; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;21408  
9;-3080.4; 04-APR-2006 16:14:58; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;21408  
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11;-2595.5; 04-APR-2006 16:23:03; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;21408  
12;-2137.6; 04-APR-2006 16:30:41; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;21408  
13;-1824.6; 04-APR-2006 16:35:54; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;21408  
14;-1194.6; 04-APR-2006 16:46:24; Dark ; 46.5; 61; 8Eps Peg ; 2.10; 3900;occ; 93; 0;21408  
15;-1045.3; 04-APR-2006 16:48:53; Dark ; 42.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 84; 0;21408  
16; -914.1; 04-APR-2006 16:51:04; Dark ; 43.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 87; 0;21408  
17; -762.0; 04-APR-2006 16:53:36; Dark ; 40.5; 142; 49Del Cap ; 2.85; 8900;occ; 81; 0;21408  
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19; 371.1; 04-APR-2006 17:12:29; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;21409  
20; 542.0; 04-APR-2006 17:15:20; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;21409  
21; 697.7; 04-APR-2006 17:17:56; Dark ; 53.0; 4; Alp1Cen ;-0.01; 5800;occ; 106; 0;21409  
22; 870.0; 04-APR-2006 17:20:48; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;21409  
23; 966.5; 04-APR-2006 17:22:25; Dark ; 47.0; 81; Eta Cen ; 2.36; 28000;occ; 94; 0;21409  
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4; -4157.7; 04-APR-2006 17:37:36; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;21409  
5; -3879.5; 04-APR-2006 17:42:15; Bright; 37.0; 62; 94Bet Leo ; 2.14; 9700;occ; 74; 0;21409  
6; -3778.3; 04-APR-2006 17:43:56; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21409  
7; -3372.1; 04-APR-2006 17:50:42; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68; 0;21409  
8; -3198.6; 04-APR-2006 17:53:36; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;21409  
9; -3080.4; 04-APR-2006 17:55:34; Bright; 34.0; 36; 50Alp UMa ; 1.80; 6300;occ; 68; 0;21409  
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12; -2137.6; 04-APR-2006 18:11:17; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;21409  
13; -1824.6; 04-APR-2006 18:16:30; Bright; 44.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 88; 0;21409  
14; -1194.4; 04-APR-2006 18:27:00; Dark ; 46.0; 61; 8Eps Peg ; 2.10; 3900;occ; 92; 0;21409  
15; -1045.1; 04-APR-2006 18:29:29; Dark ; 43.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 87; 0;21409  
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17; -761.7; 04-APR-2006 18:34:13; Dark ; 42.0; 142; 49Del Cap ; 2.85; 8900;occ; 84; 0;21409  
18; -270.2; 04-APR-2006 18:42:24; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;21409  
19; 371.9; 04-APR-2006 18:53:06; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;21410  
20; 542.5; 04-APR-2006 18:55:57; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;21410  
21; 698.1; 04-APR-2006 18:58:32; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;21410  
22; 870.6; 04-APR-2006 19:01:25; Dark ; 43.5; 78; Alp Lup ; 2.30; 28000;occ; 87; 0;21410  
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3; -4565.7; 04-APR-2006 19:11:24; Dark ; 44.5; 106; 9Bet Crv ; 2.65; 5600;occ; 89; 0;21410  
4; -4450.7; 04-APR-2006 19:13:19; Dark ; 39.0; 100; 4Gam Crv ; 2.58; 13100;occ; 78; 0;21410  
5; -4157.9; 04-APR-2006 19:18:12; Bright; 42.0; 121; 29Gam Vir ; 2.74; 7200;occ; 84; 0;21410  
6; -3879.4; 04-APR-2006 19:22:51; Bright; 37.0; 62; 94Bet Leo ; 2.14; 9700;occ; 74; 0;21410  
7; -3778.1; 04-APR-2006 19:24:32; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21410  
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9; -3198.7; 04-APR-2006 19:34:11; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;21410  
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12; -2595.5; 04-APR-2006 19:44:15; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;21410  
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14; -1824.6; 04-APR-2006 19:57:06; Bright; 42.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 85; 0;21410  
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16; -1044.7; 04-APR-2006 20:10:05; Dark ; 42.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 85; 0;21410  
17; -913.2; 04-APR-2006 20:12:17; Dark ; 39.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 79; 0;21410  
18; -761.3; 04-APR-2006 20:14:49; Dark ; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;21410  
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21; 543.0; 04-APR-2006 20:36:33; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21411  
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24; 967.8; 04-APR-2006 20:43:38; Dark ; 47.5; 81; Eta Cen ; 2.36; 28000;occ; 95; 0;21411

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2; 5769.3; 05-APR-2006 01:24:51; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;21413  
3; 6410.7; 05-APR-2006 01:35:33; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;21413  
4; 6580.3; 05-APR-2006 01:38:22; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21413  
5; 6735.7; 05-APR-2006 01:40:58; Dark ; 44.5; 4; Alp1Cen ; -0.01; 5800;occ; 89; 0;21413  
6; 6908.8; 05-APR-2006 01:43:51; Dark ; 43.5; 78; Alp Lup ; 2.30; 28000;occ; 87; 0;21413  
7; 7005.3; 05-APR-2006 01:45:27; Dark ; 49.5; 81; Eta Cen ; 2.36; 28000;occ; 99; 0;21413  
8; 7163.2; 05-APR-2006 01:48:05; Dark ; 52.0; 54; 5The Cen ; 2.06; 4500;occ; 104; 0;21413  
9; 7506.7; 05-APR-2006 01:53:49; Dark ; 43.5; 106; 9Bet Crv ; 2.65; 5600;occ; 87; 0;21413  
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11; 7913.7; 05-APR-2006 02:00:36; Bright; 40.0; 121; 29Gam Vir ; 2.74; 7200;occ; 80; 0;21413  
12; 8192.2; 05-APR-2006 02:05:14; Bright; 37.0; 62; 94Bet Leo ; 2.14; 9700;occ; 74; 0;21413  
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17; 9355.4; 05-APR-2006 02:24:37; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;21413  
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5; -911.1; 05-APR-2006 02:54:42; Dark ; 45.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 91; 0;21414
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7; -265.2; 05-APR-2006 03:05:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;21414
8; 376.1; 05-APR-2006 03:16:09; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;21415
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 23; 2820.0; 22-APR-2006 06:43:41; Bright; 34.0; 87; 64Gam UMa ; 2.43; 11000;occ; 68; 0;21660  
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6; 107.2; 22-APR-2006 21:03:52; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;21669  
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13; 1491.7; 22-APR-2006 21:26:56; Dark ; 41.5; 169; 46Gam Hya ; 2.99; 4700;occ; 83; 0;21669  
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6; 6143.6; 22-APR-2006 22:44:28; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;21669  
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9; 6833.1; 22-APR-2006 22:55:57; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;21669  
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13; 7527.8; 22-APR-2006 23:07:32; Dark ; 41.5; 169; 46Gam Hya ; 2.99; 4700;occ; 83; 0;21669  
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17; 8603.9; 22-APR-2006 23:25:28; Bright; 35.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 71; 0;21669  
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23;10525.8; 22-APR-2006 23:57:30; Bright; 37.0; 164; 44Eta Peg ; 2.95; 5400;occ; 74; 0;21669  
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 8; -197.5; 24-APR-2006 06:30:45; Dark ; 39.0; 31; Alp Gru ; 1.73; 15200;occ; 78; 0;21688  
 9; -22.2; 24-APR-2006 06:33:40; Dark ; 38.0; 148; Alp Tuc ; 2.88; 4100;occ; 76; 0;21688  
 10; 119.6; 24-APR-2006 06:36:02; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;21689  
 11; 540.8; 24-APR-2006 06:43:03; Dark ; 40.5; 43; Alp TrA ; 1.91; 4250;occ; 81; 0;21689  
 12; 670.9; 24-APR-2006 06:45:13; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;21689  
 13; 804.0; 24-APR-2006 06:47:27; Dark ; 46.5; 4; Alp1Cen ; -0.01; 5800;occ; 93; 0;21689  
 14; 1003.5; 24-APR-2006 06:50:46; Dark ; 42.0; 78; Alp Lup ; 2.30; 28000;occ; 84; 0;21689  
 15; 1097.5; 24-APR-2006 06:52:20; Dark ; 42.0; 81; Eta Cen ; 2.36; 28000;occ; 84; 0;21689  
 16; 1229.6; 24-APR-2006 06:54:32; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;21689  
 17; 1496.0; 24-APR-2006 06:58:59; Dark ; 42.0; 169; 46Gam Hya ; 2.99; 4700;occ; 84; 0;21689  
 18; 1701.6; 24-APR-2006 07:02:24; Bright; 25.5; 15; 67Alp Vir ; 0.98; 28000;occ; 51; 0;21689

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 16; -197.7; 24-APR-2006 08:11:21; Dark ; 39.0; 31; Alp Gru ; 1.73; 15200;occ; 78; 0;21689  
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 18; 119.7; 24-APR-2006 08:16:39; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;21690  
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 22; 1003.3; 24-APR-2006 08:31:22; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;21690  
 23; 1097.3; 24-APR-2006 08:32:56; Dark ; 40.5; 81; Eta Cen ; 2.36; 28000;occ; 81; 0;21690  
 24; 1229.3; 24-APR-2006 08:35:08; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;21690  
 25; 1495.4; 24-APR-2006 08:39:35; Dark ; 41.5; 169; 46Gam Hya ; 2.99; 4700;occ; 83; 0;21690  
 26; 1701.1; 24-APR-2006 08:43:00; Bright; 41.0; 15; 67Alp Vir ; 0.98; 28000;occ; 82; 0;21690

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 3; 2565.7; 24-APR-2006 08:57:25; Bright; 36.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 72; 0;21690  
 4; 2821.8; 24-APR-2006 09:01:41; Bright; 34.5; 87; 64Gam UMa ; 2.43; 11000;occ; 69; 0;21690  
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 6; 3240.7; 24-APR-2006 09:08:40; Bright; 32.0; 60; 7Bet UMi ; 2.08; 3950;occ; 64; 0;21690  
 7; 3443.4; 24-APR-2006 09:12:02; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;21690  
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 9; 3988.4; 24-APR-2006 09:21:07; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;21690  
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 13; 5615.5; 24-APR-2006 09:48:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;21690  
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 15; 5838.7; 24-APR-2006 09:51:58; Dark ; 41.0; 31; Alp Gru ; 1.73; 15200;occ; 82; 0;21690  
 16; 6013.7; 24-APR-2006 09:54:53; Dark ; 38.5; 148; Alp Tuc ; 2.88; 4100;occ; 77; 0;21690  
 17; 6156.1; 24-APR-2006 09:57:15; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;21690  
 18; 6577.0; 24-APR-2006 10:04:16; Dark ; 43.5; 43; Alp TrA ; 1.91; 4250;occ; 87; 0;21690  
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 25; 7737.1; 24-APR-2006 10:23:36; Bright; 41.0; 15; 67Alp Vir ; 0.98; 28000;occ; 82; 0;21690

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 5; -3059.9; 24-APR-2006 10:44:51; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;21691  
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 9; -2047.4; 24-APR-2006 11:01:43; Bright; 32.5; 68; 18Alp Cas ; 2.22; 4500;occ; 65; 0;21691  
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 12; -535.6; 24-APR-2006 11:26:55; Dark ; 43.0; 18; 24Alp PsA ; 1.17; 9700;occ; 86; 0;21691  
 13; -419.9; 24-APR-2006 11:28:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;21691  
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 16; -21.9; 24-APR-2006 11:35:29; Dark ; 36.5; 148; Alp Tuc ; 2.88; 4100;occ; 73; 0;21691  
 17; 120.9; 24-APR-2006 11:37:52; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;21692  
 18; 541.4; 24-APR-2006 11:44:52; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;21692  
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 18; 121.6; 24-APR-2006 13:18:28; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;21693  
 19; 541.8; 24-APR-2006 13:25:29; Dark ; 38.0; 43; Alp TrA ; 1.91; 4250;occ; 76; 0;21693  
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 21; 804.7; 24-APR-2006 13:29:51; Dark ; 47.0; 4; Alp1Cen ; -0.01; 5800;occ; 94; 0;21693  
 22; 1004.4; 24-APR-2006 13:33:11; Dark ; 42.5; 78; Alp Lup ; 2.30; 28000;occ; 85; 0;21693  
 23; 1098.4; 24-APR-2006 13:34:45; Dark ; 40.5; 81; Eta Cen ; 2.36; 28000;occ; 81; 0;21693  
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 21; 548.4; 25-APR-2006 16:15:10; Dark ; 40.0; 43; Alp TrA ; 1.91; 4250;occ; 80; 0;21709  
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5; 2.9; 29-APR-2006 22:22:37; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;21770  
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8; 701.9; 29-APR-2006 22:34:16; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;21770  
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