

GOMOS Daily Report 23-DEC-2004

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

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

[2.1 Level 0 products arrived in PCF during actual month \(see template \[here\]\(#\)\)](#)

[2.2 Level 1 products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Statistics on SATU Noise Equivalent Angle](#)

[8. Auxiliary Data Files used for the production reported in section 2.2](#)

[Level 2 products](#)

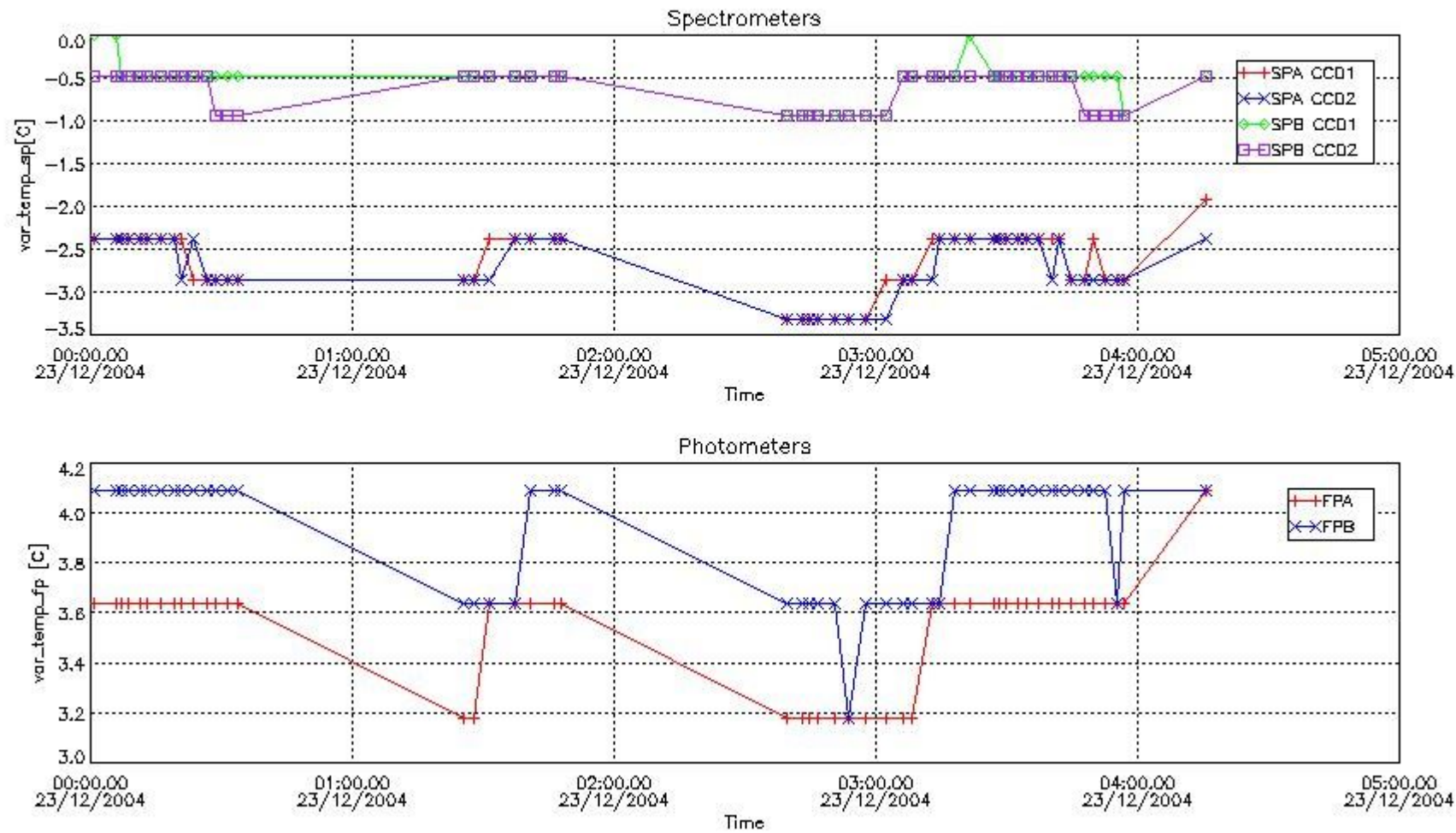
1. General Info

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	25DEC2004 05:16:08

47	GOM_TRA_1PNPDE20041223_035244_00000572033_00133_14716_0025.N1	23-DEC-2004 03:52:44	Bright	56.500	14	58Alp Ori	0.87000	3000.0	113	14716	No
48	GOM_TRA_1PNPDE20041223_035506_00000522033_00133_14716_0026.N1	23-DEC-2004 03:55:06	Bright	52.000	13	87Alp Tau	0.86700	3800.0	104	14716	No
49	GOM_TRA_1PNPDE20041223_035648_00000422033_00133_14716_0027.N1	23-DEC-2004 03:56:48	Bright	41.500	176	23Zet Tau	3.0200	22000.	83	14716	No
50	GOM_TRA_1PNPDE20041223_041539_00000352033_00133_14716_0000.N1	23-DEC-2004 04:15:39	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	14716	No

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



4. Overview of dark signal processing per product

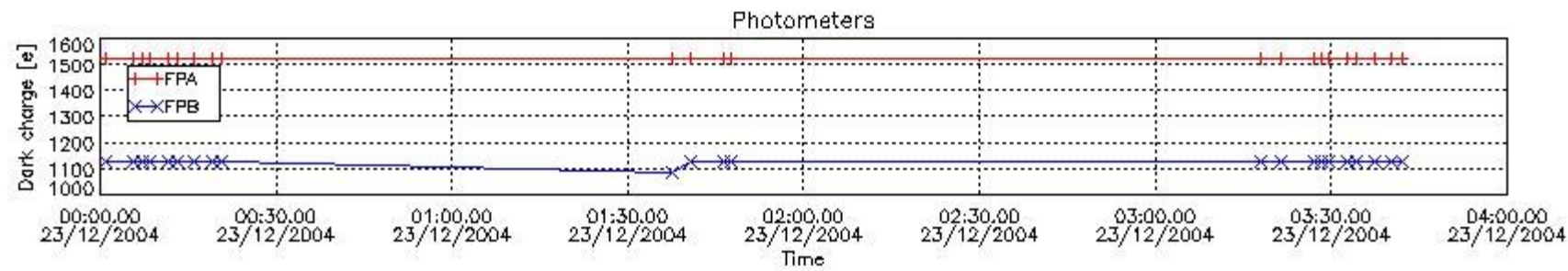
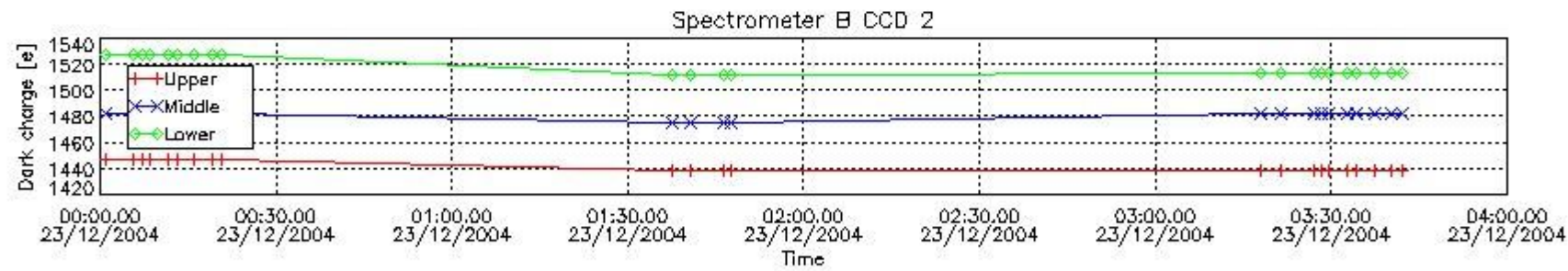
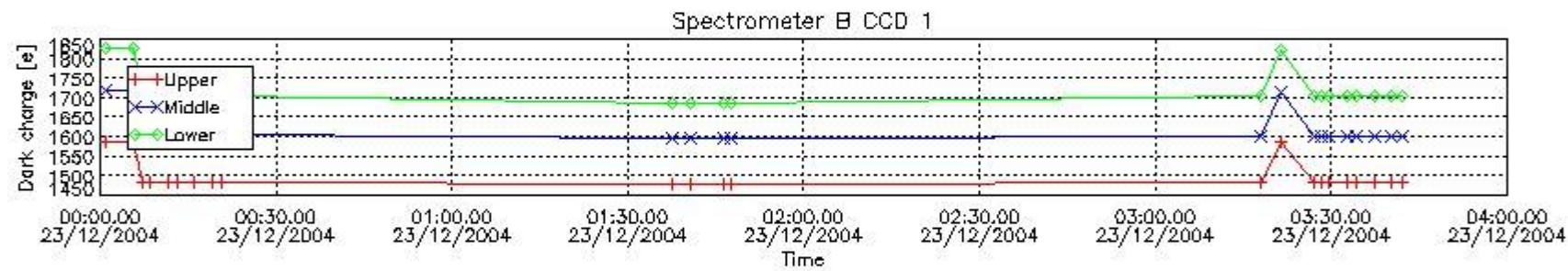
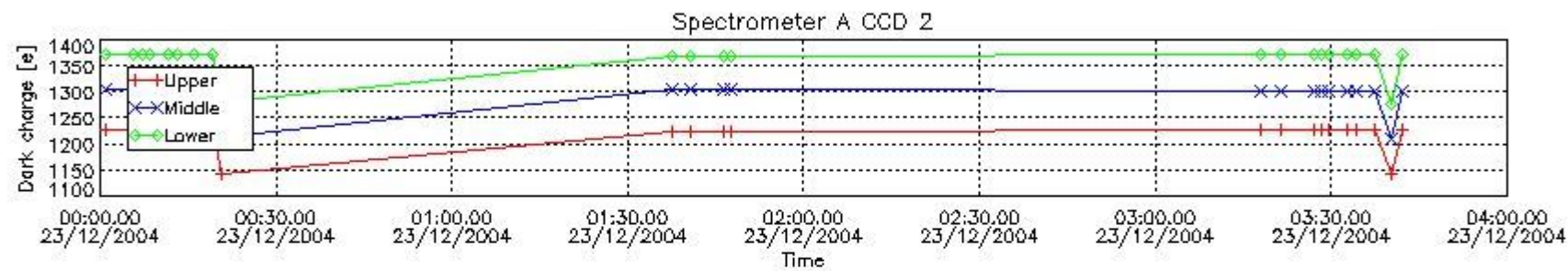
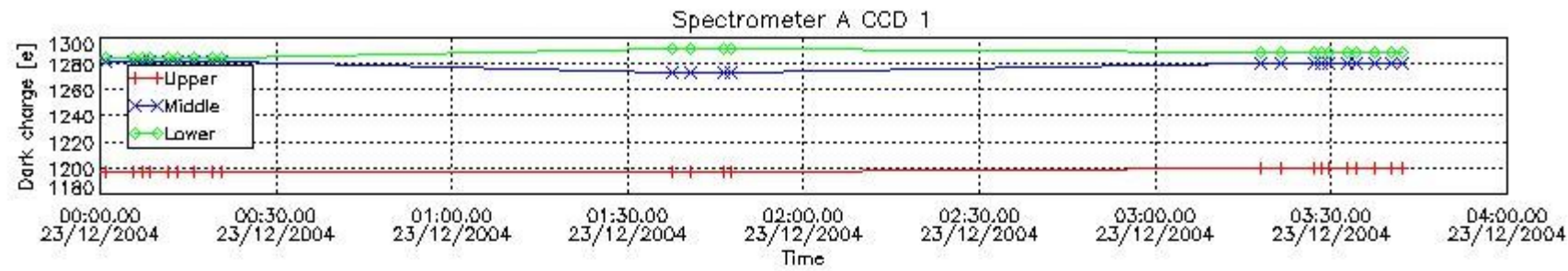
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20041223_041539_00000352033_00133_14716_0000.N1	DC map with no T dep. (12)

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



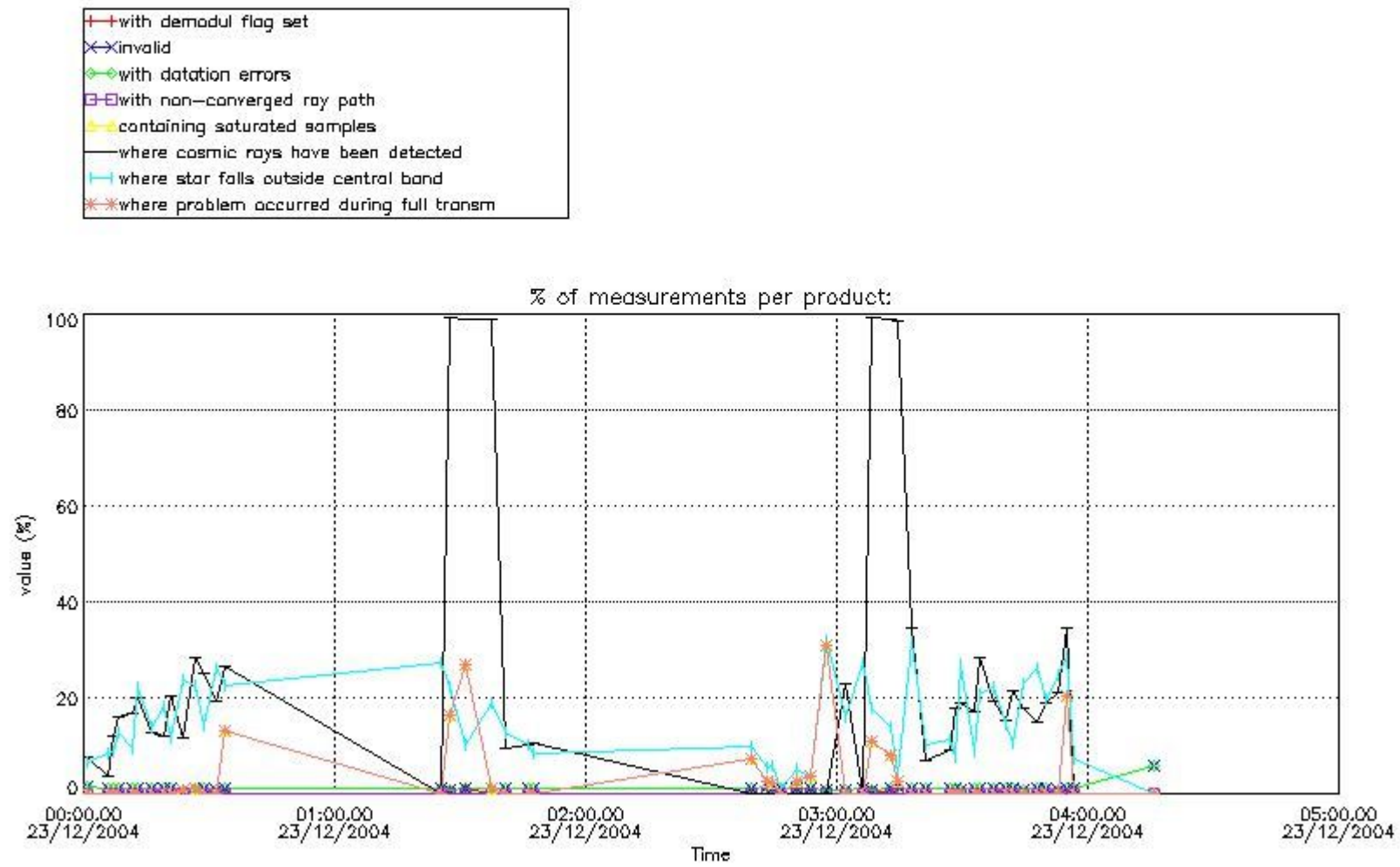
5. Demodulation flag and quality information monitoring

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.

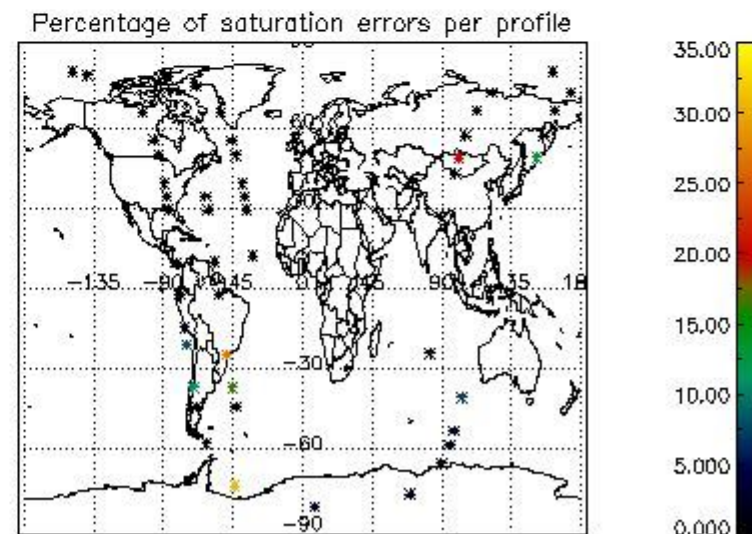
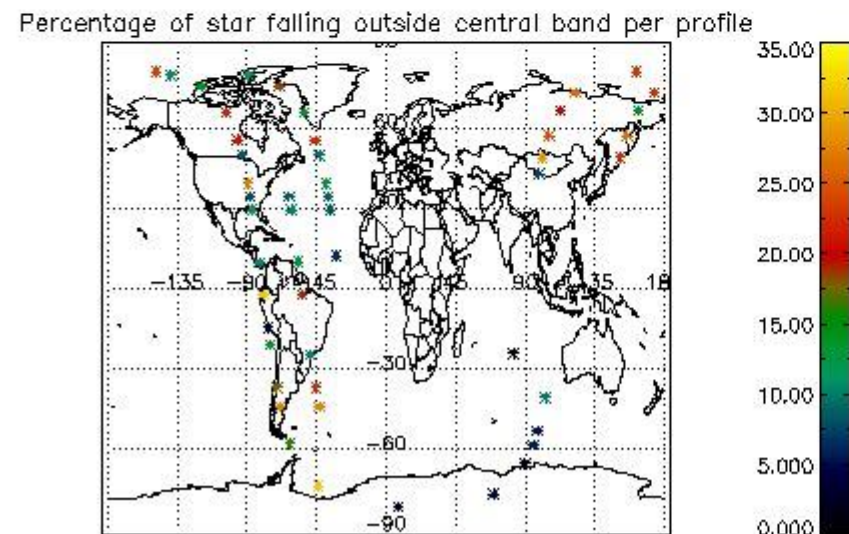
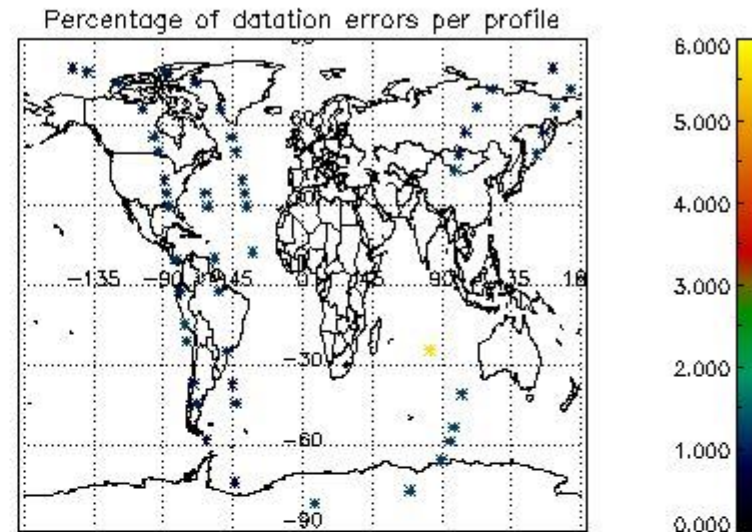
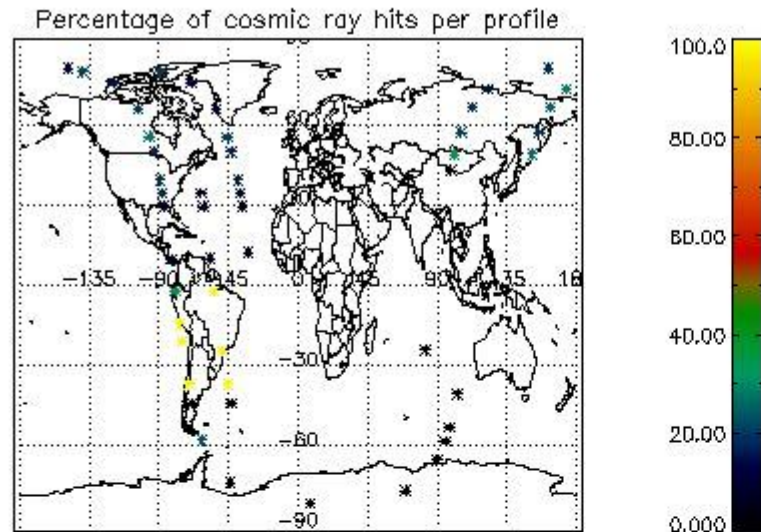
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



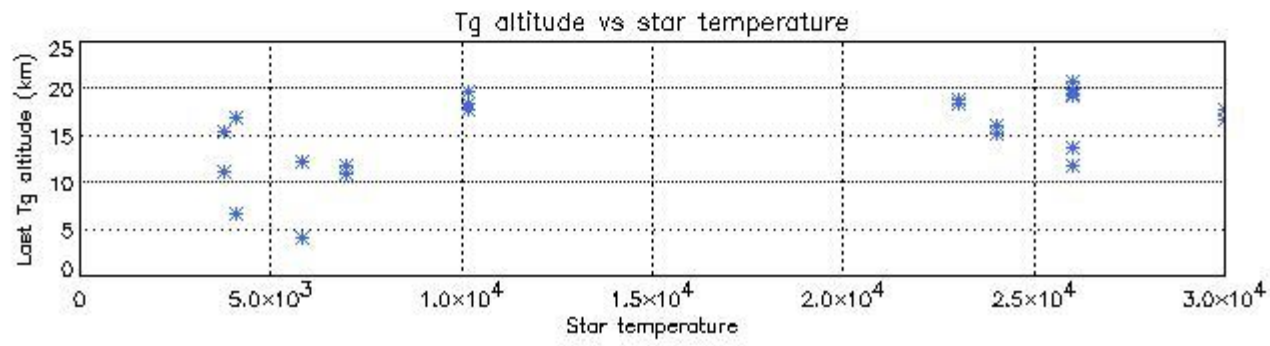
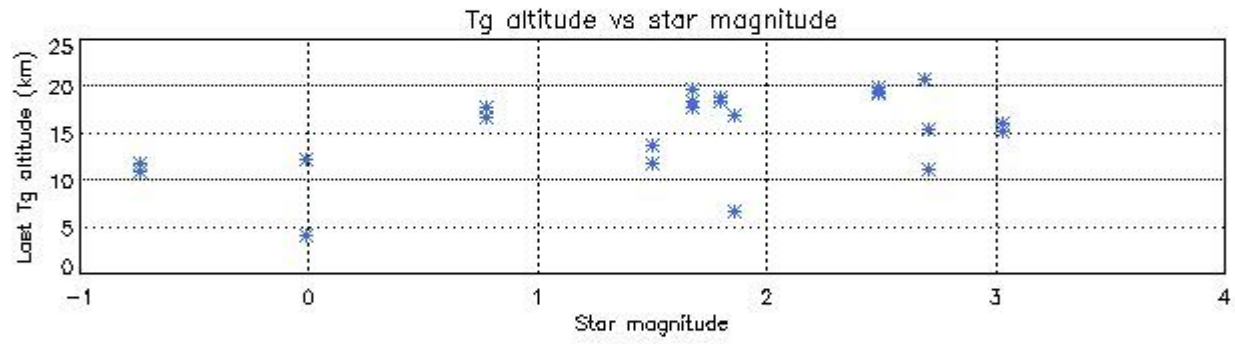
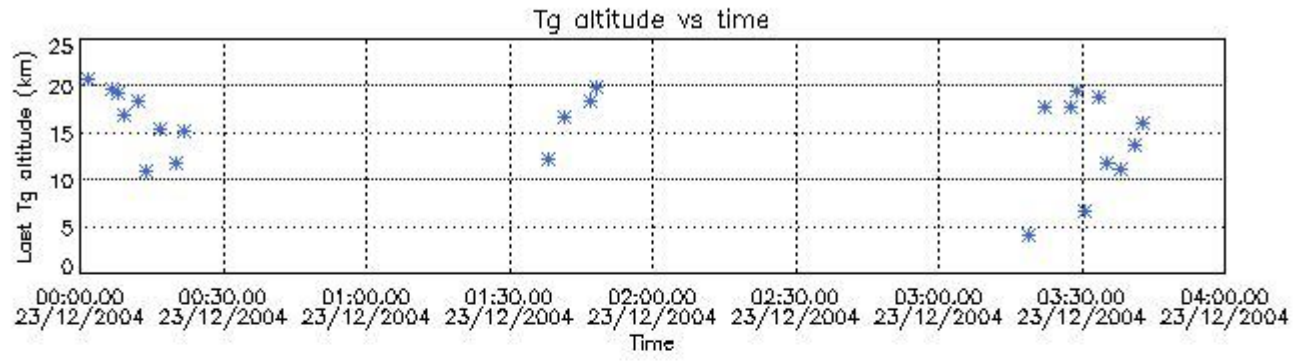
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.292	15.450	12.687
St. deviation:	4.3788	7.3504	4.5308
Maximum:	20.665	29.193	21.671
Minimum:	4.1225	5.2546	8.0387
Number of data:	23.000	17.000	10.000

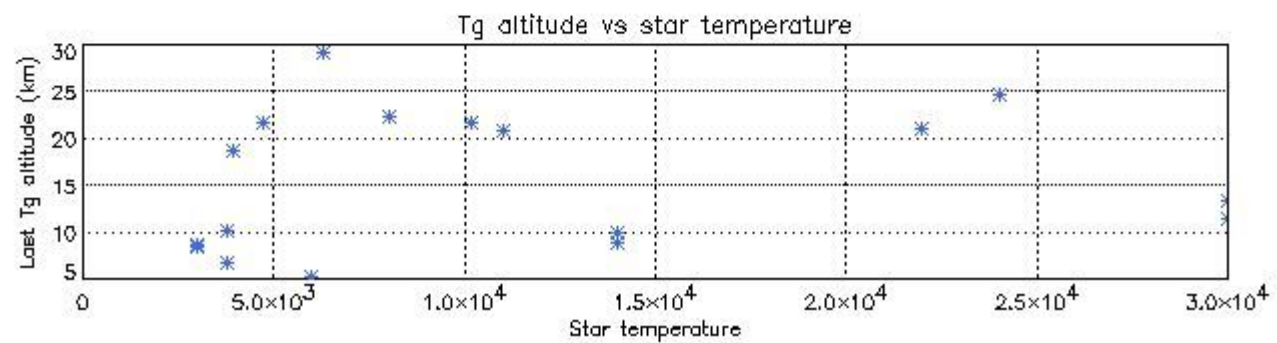
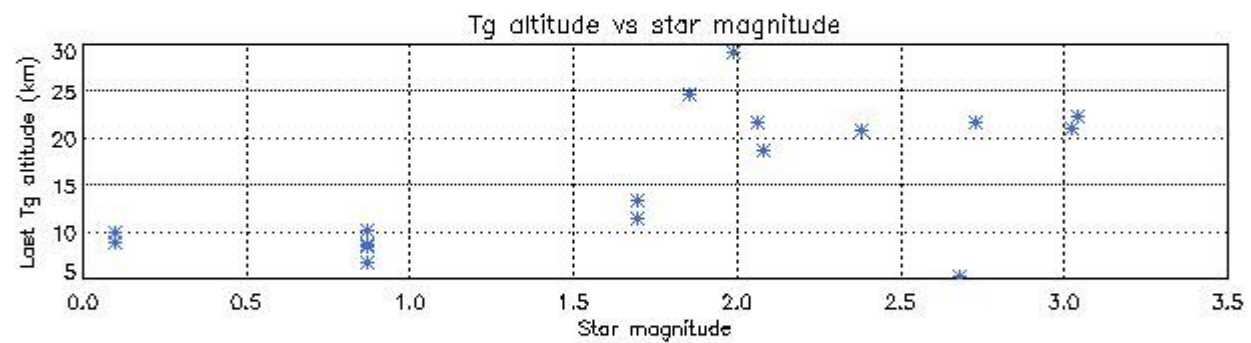
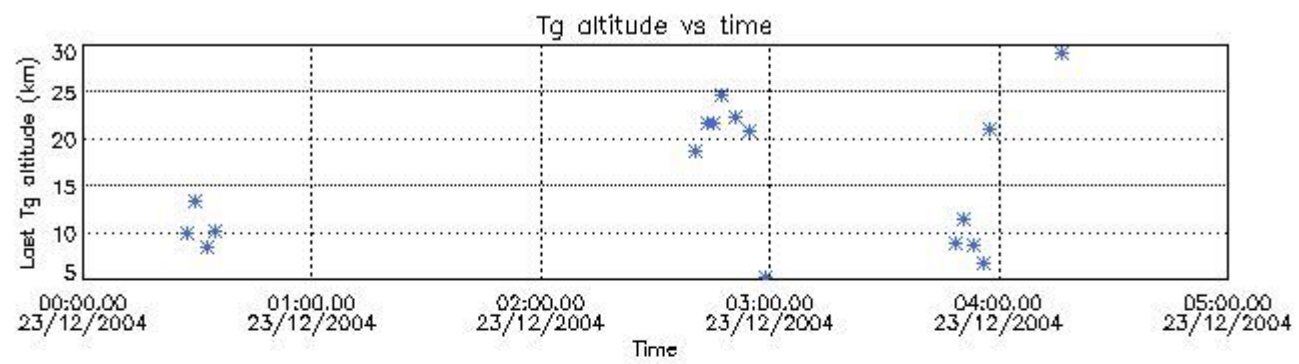
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



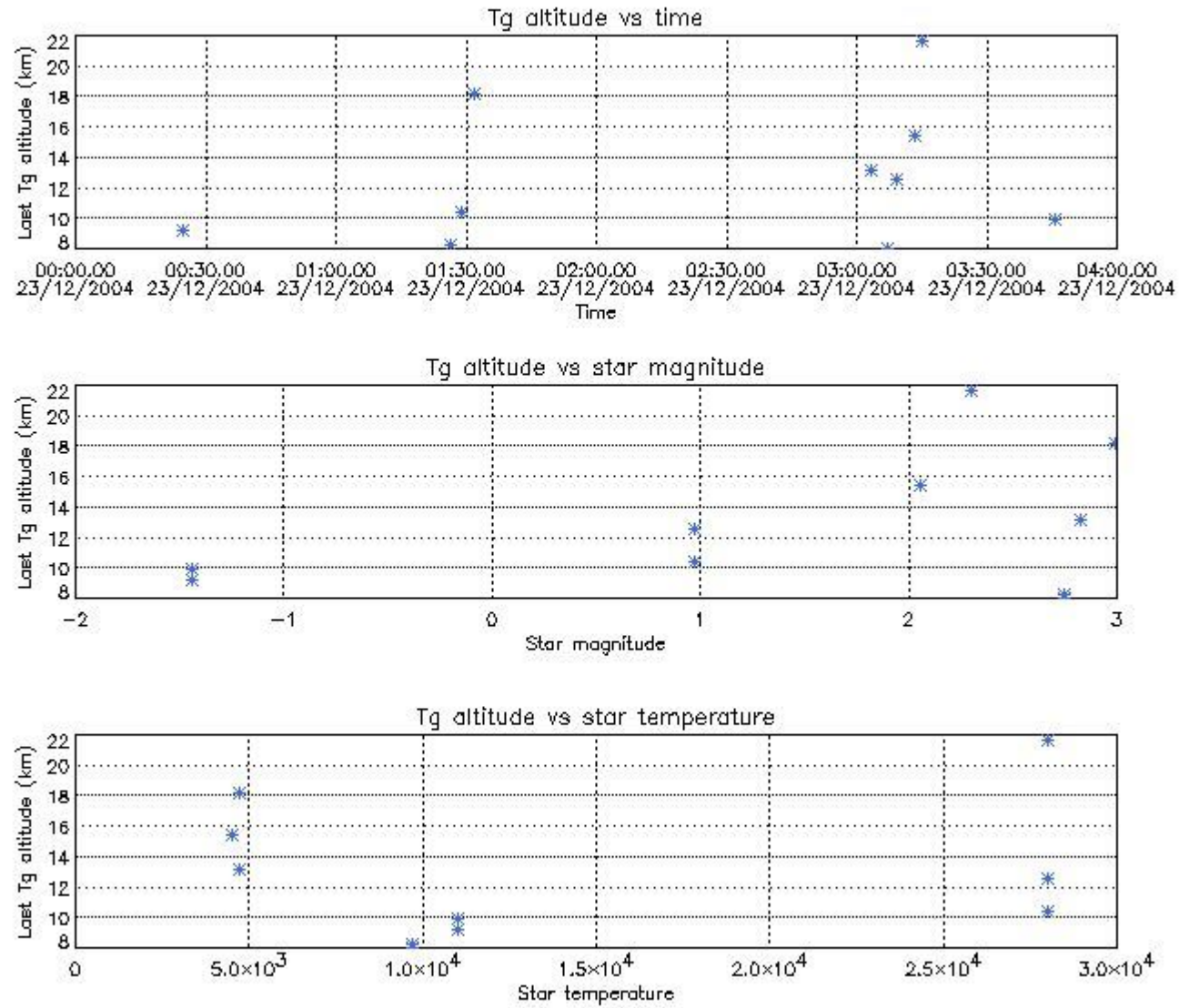
6.3 Plot for BRIGHT limb products

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

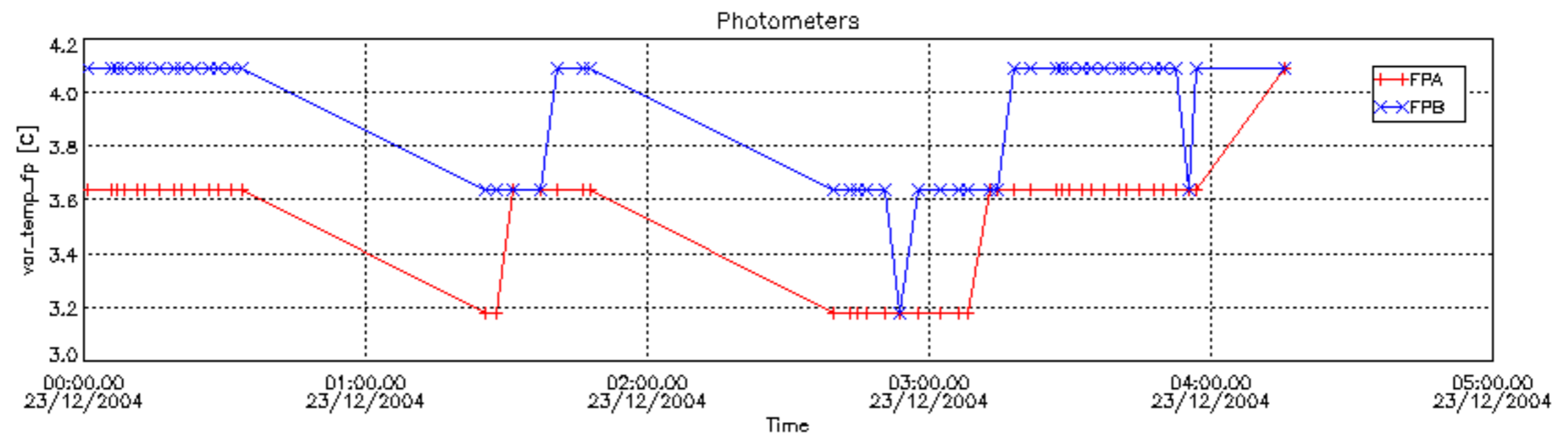
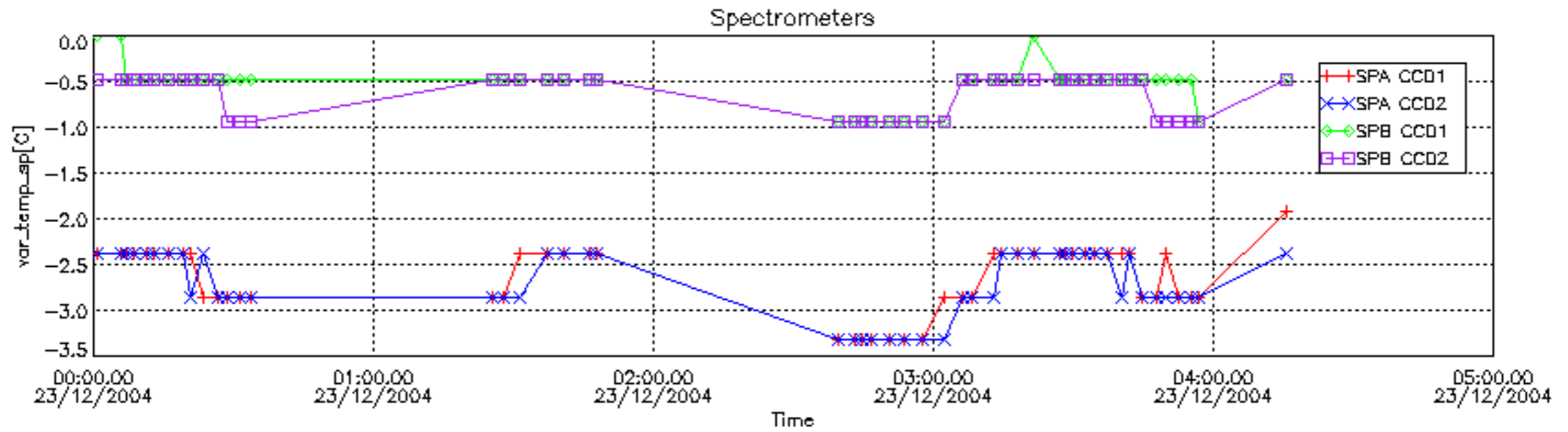
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

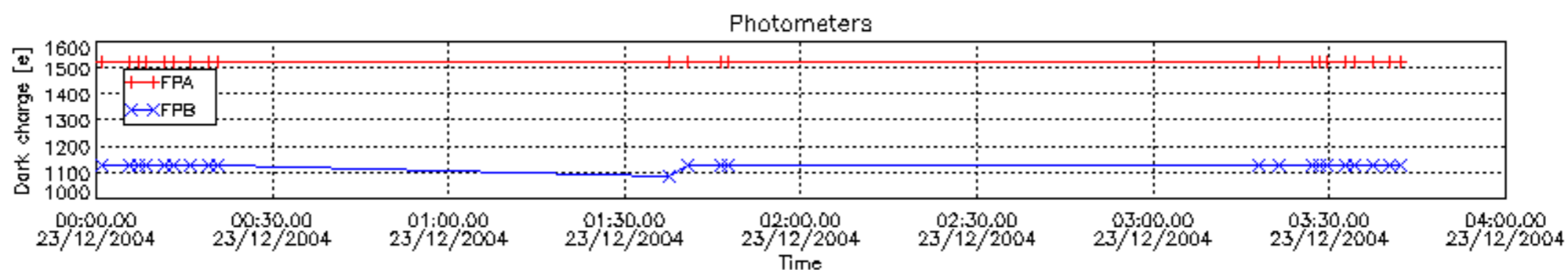
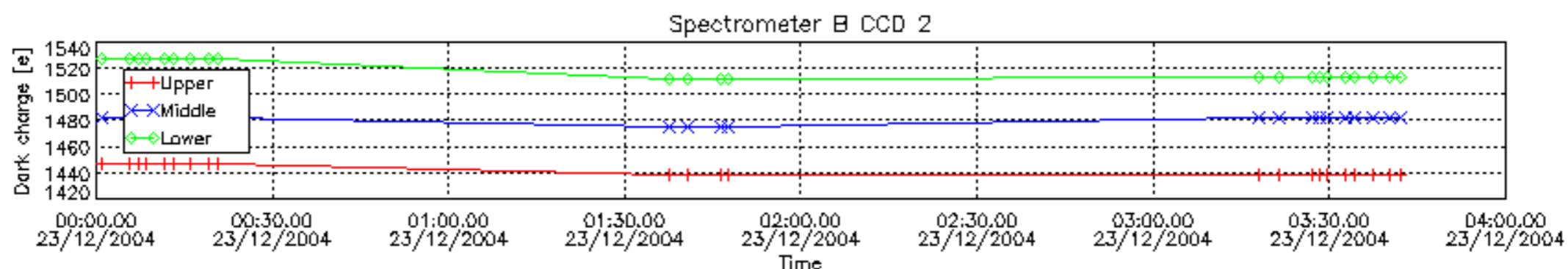
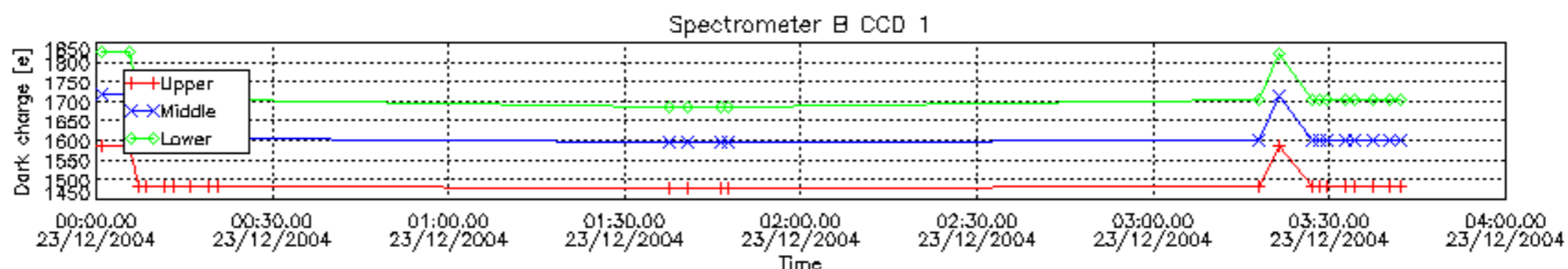
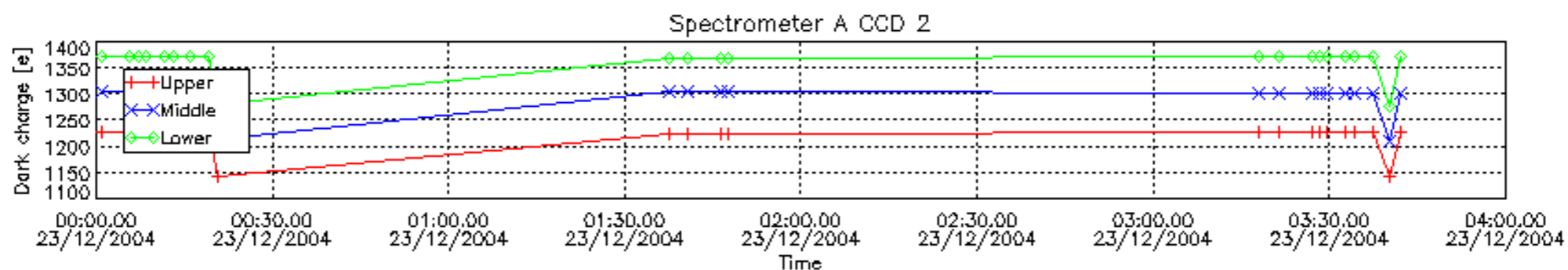
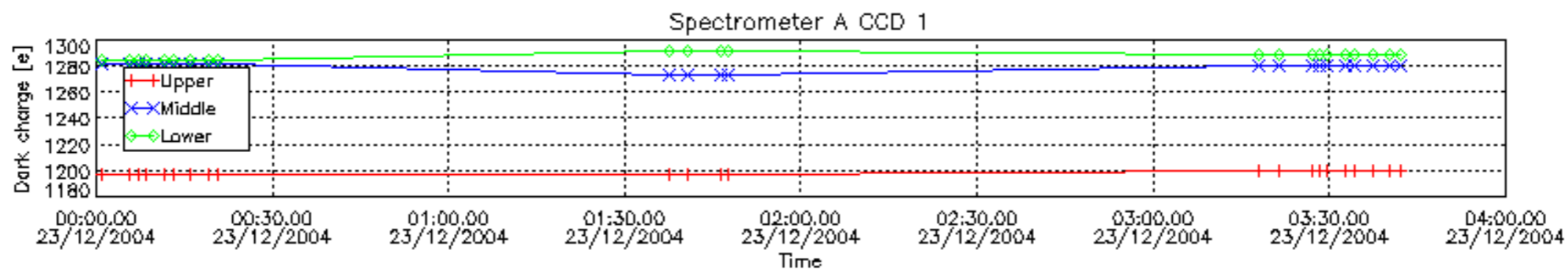
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.9	1446.6	1462.0	1447.7
St. deviation:	5.0135	8.0167	5.4646	8.0731
Maximum:	1507.0	1499.0	1508.0	1505.0
Minimum:	1421.0	1395.0	1444.0	1431.0
Number of data:	29150.	29150.	19300.	19300.

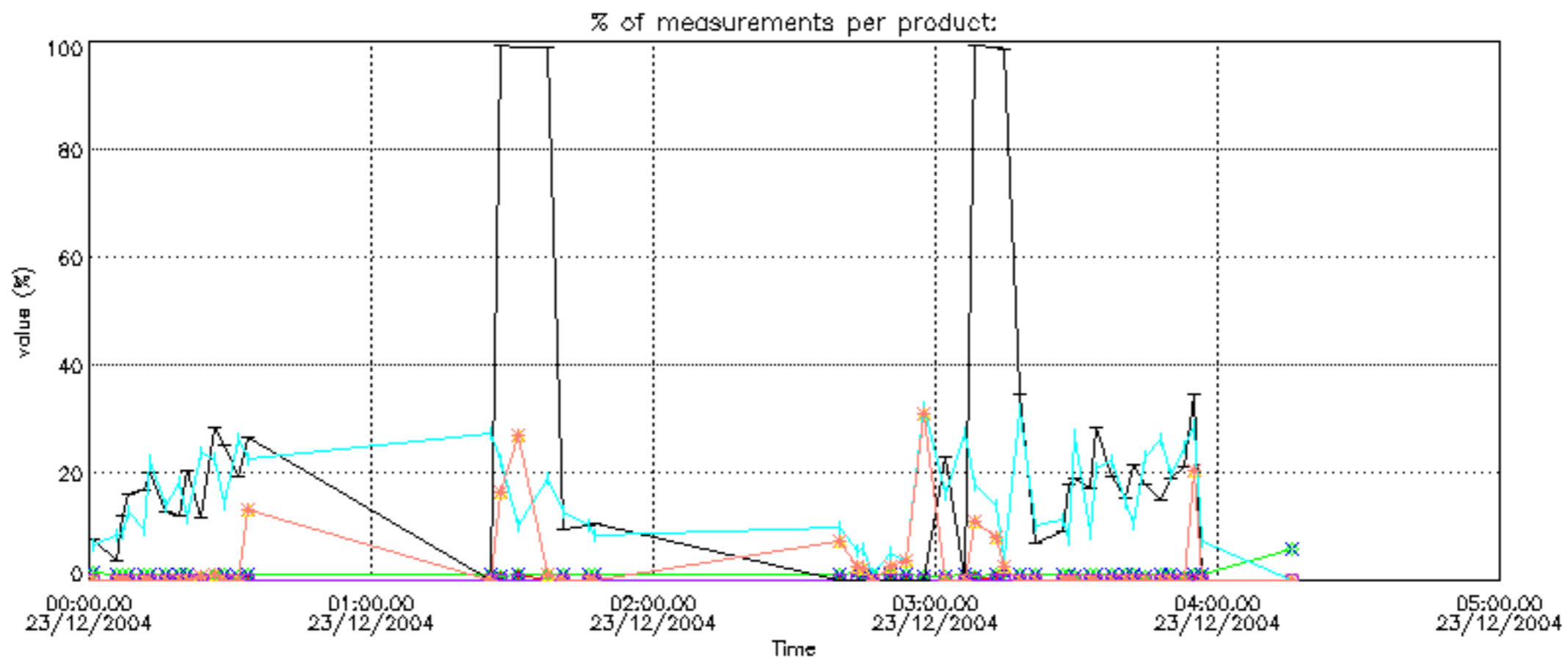
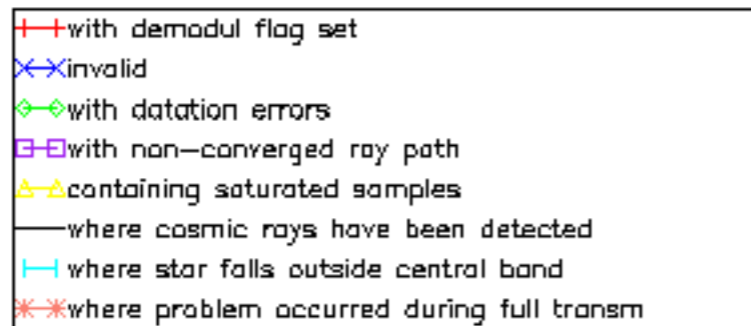
8. Auxiliary Data Files used for the production reported in section 2.2

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.

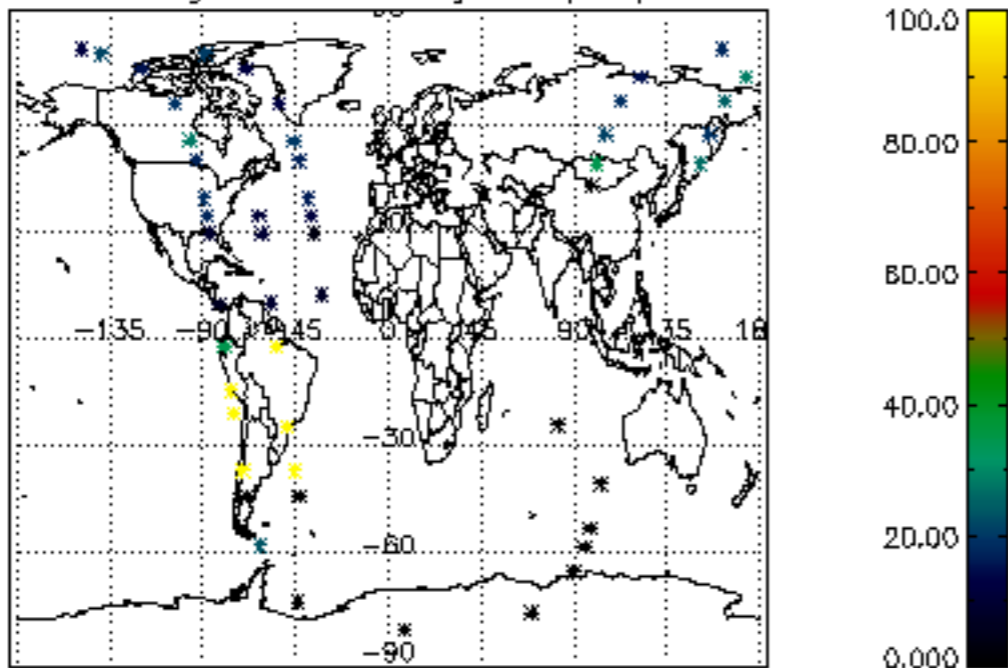
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	23-DEC-2004 00:00:52
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041217_142407_20041216_000000_20100101_000000	1	23-DEC-2004 00:00:52
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	23-DEC-2004 00:00:52
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	23-DEC-2004 00:00:52
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	23-DEC-2004 00:00:52
ECMWF_FILE	AUX_ECF_AXNECM20041222_061108_20041222_210000_20041223_090000	1	23-DEC-2004 00:00:52
ECMWF_FILE	AUX_ECA_AXNECM20041223_191617_20041223_030000_20041223_150000	50	23-DEC-2004 04:15:39
OPTIONAL_ECMWF_FILE	NOT USED	1	23-DEC-2004 00:00:52
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041222_234952_20041222_185539_20050101_202152	1	23-DEC-2004 00:00:52



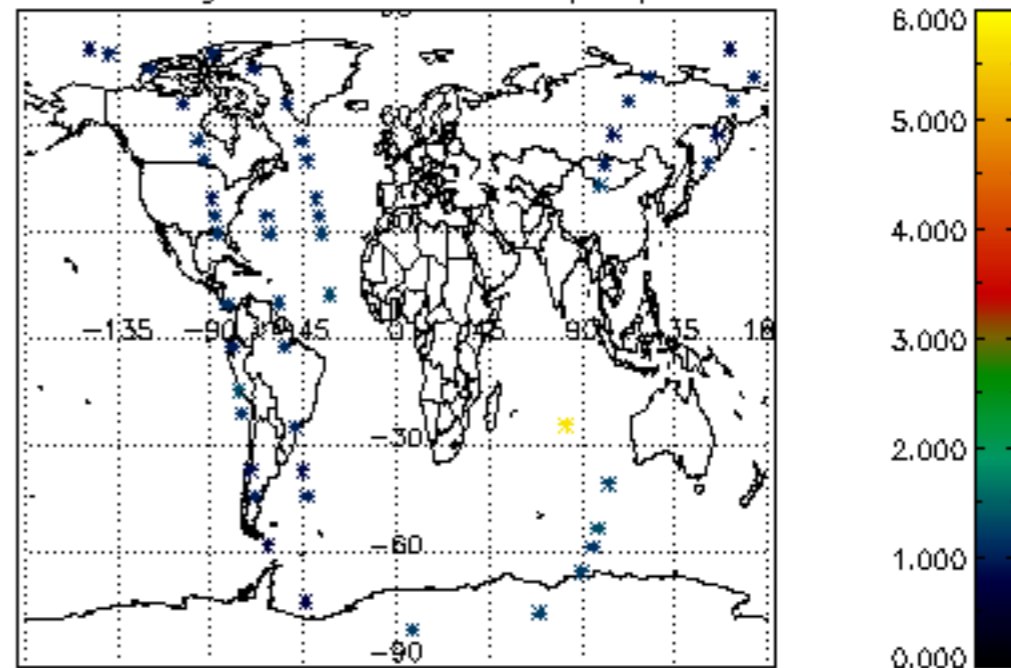




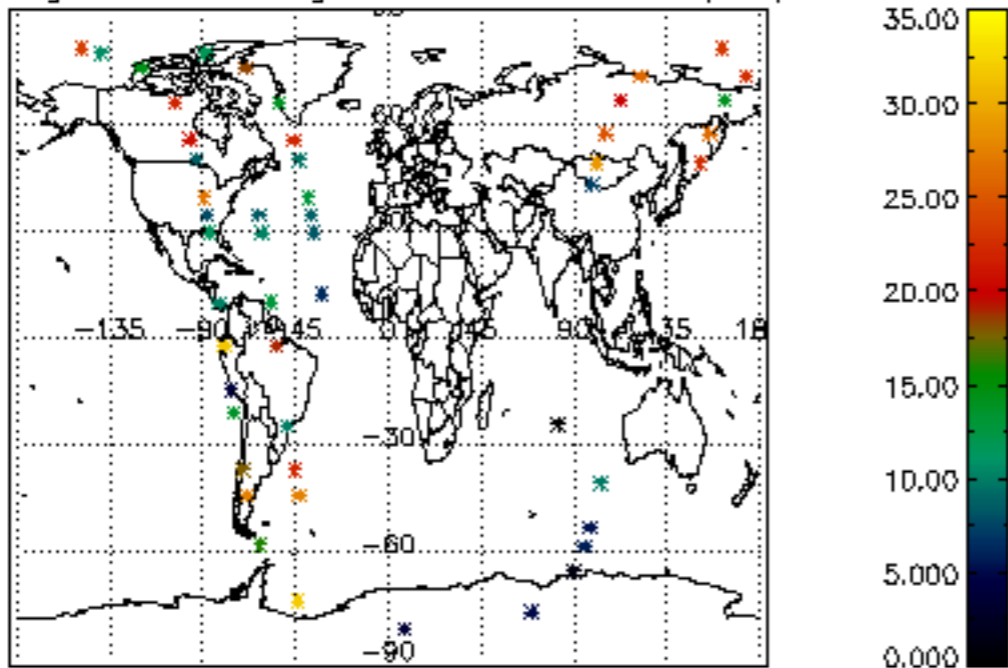
Percentage of cosmic ray hits per profile



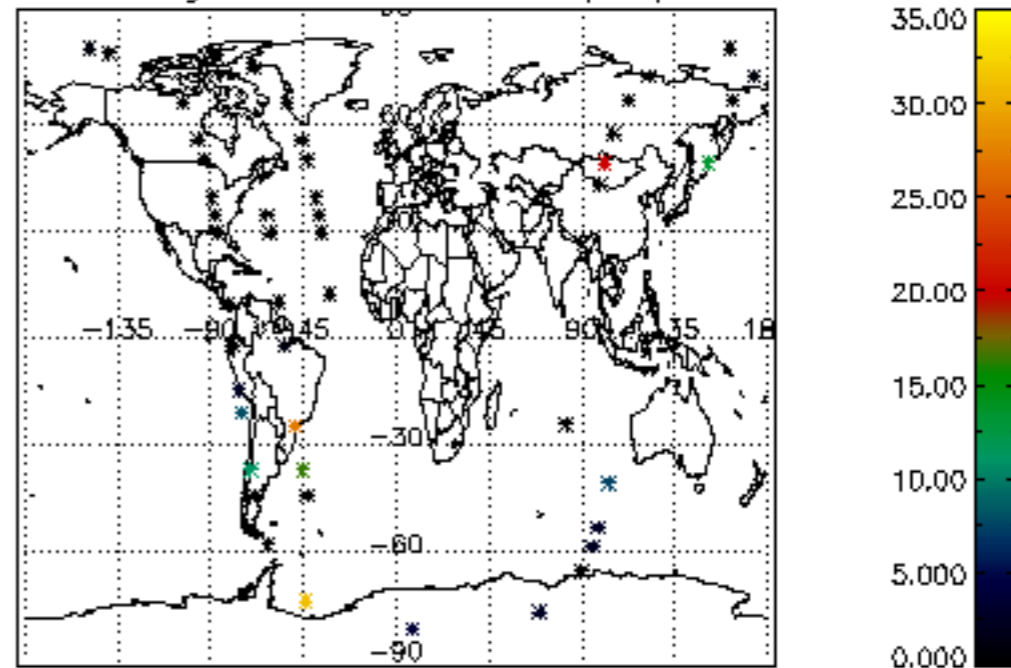
Percentage of datation errors per profile



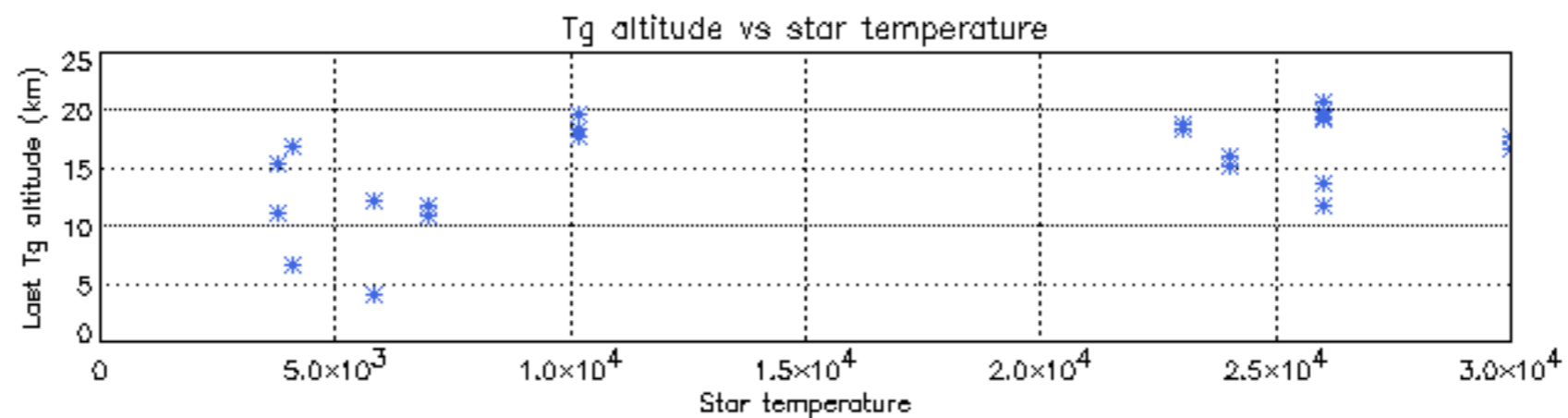
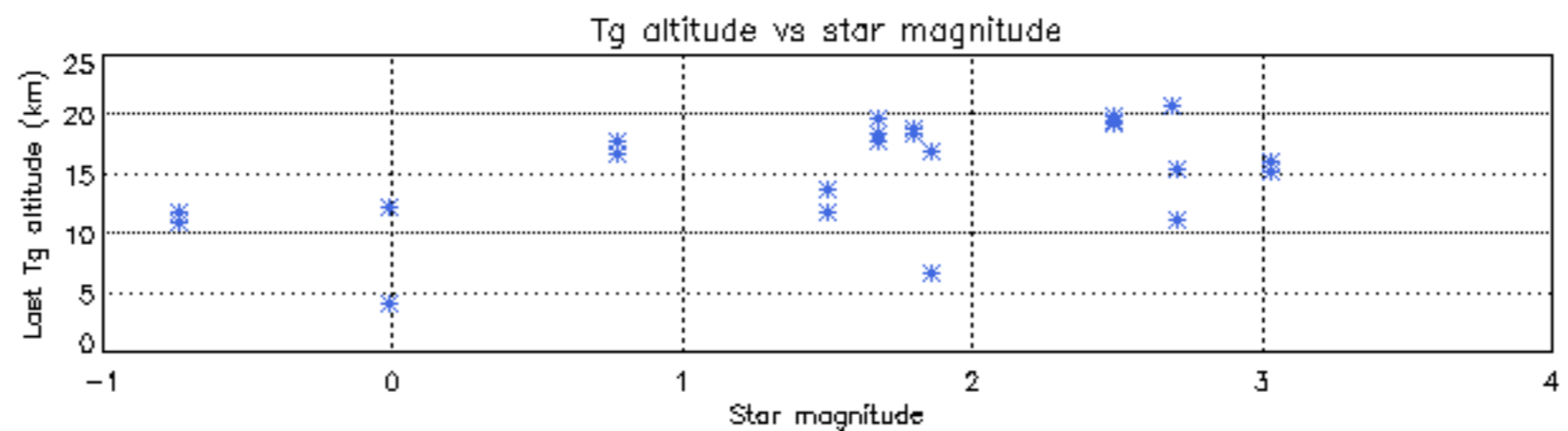
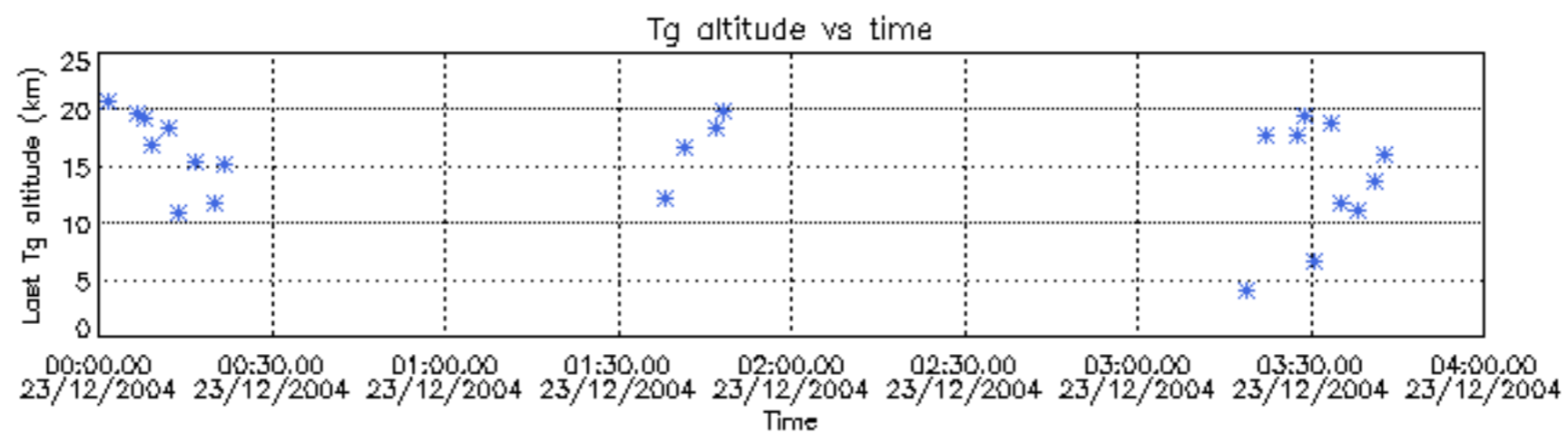
Percentage of star falling outside central band per profile



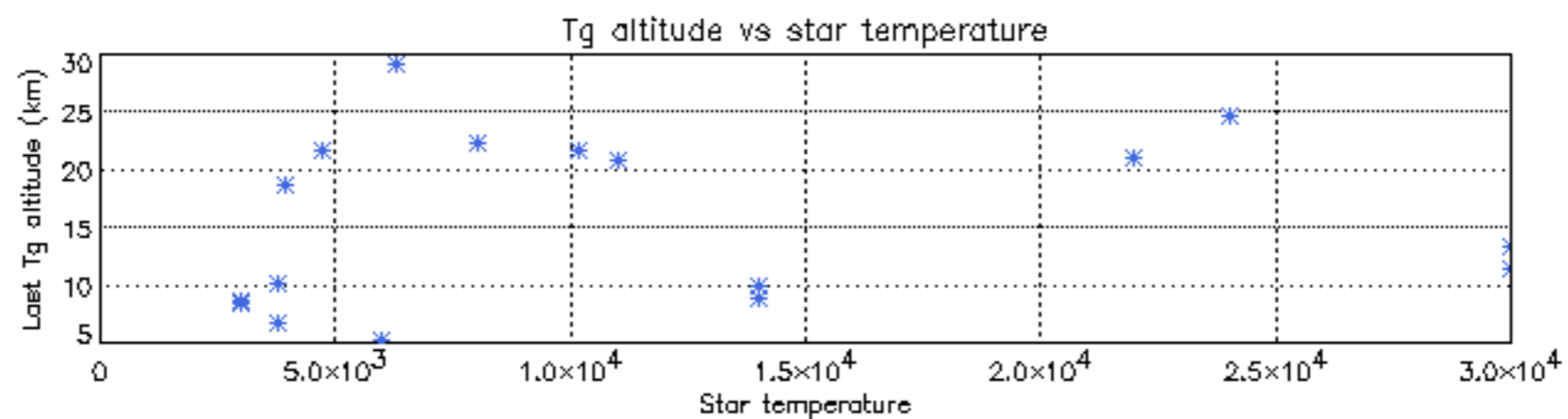
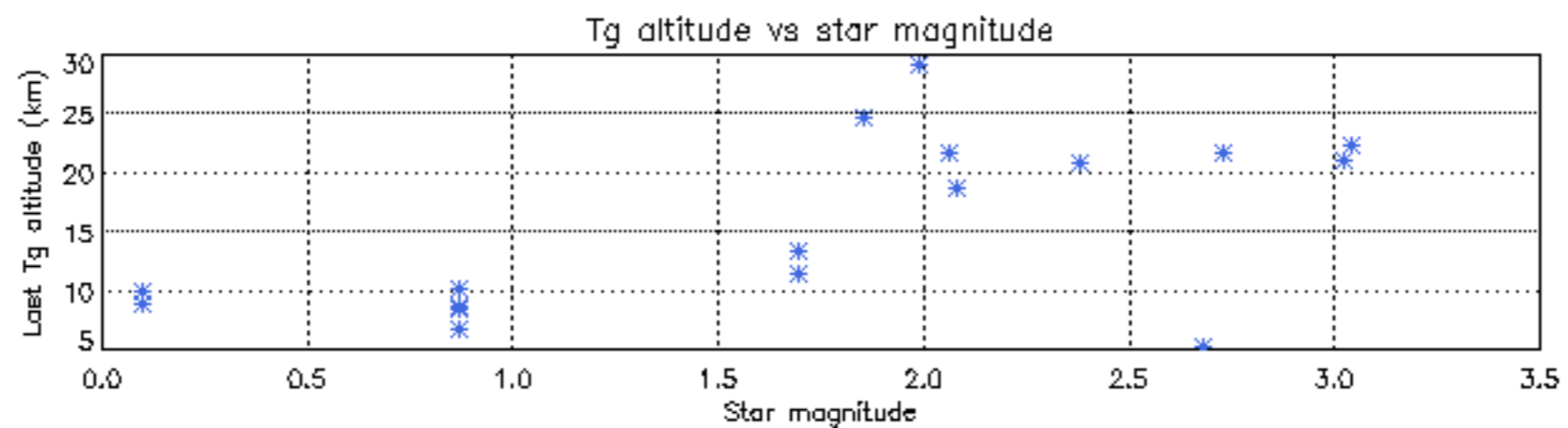
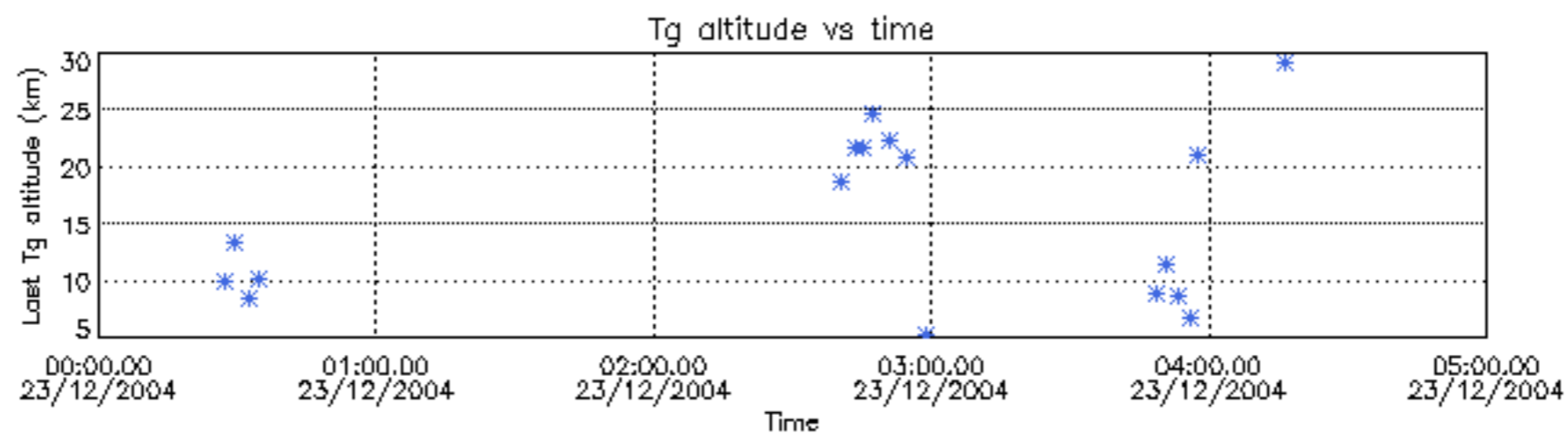
Percentage of saturation errors per profile



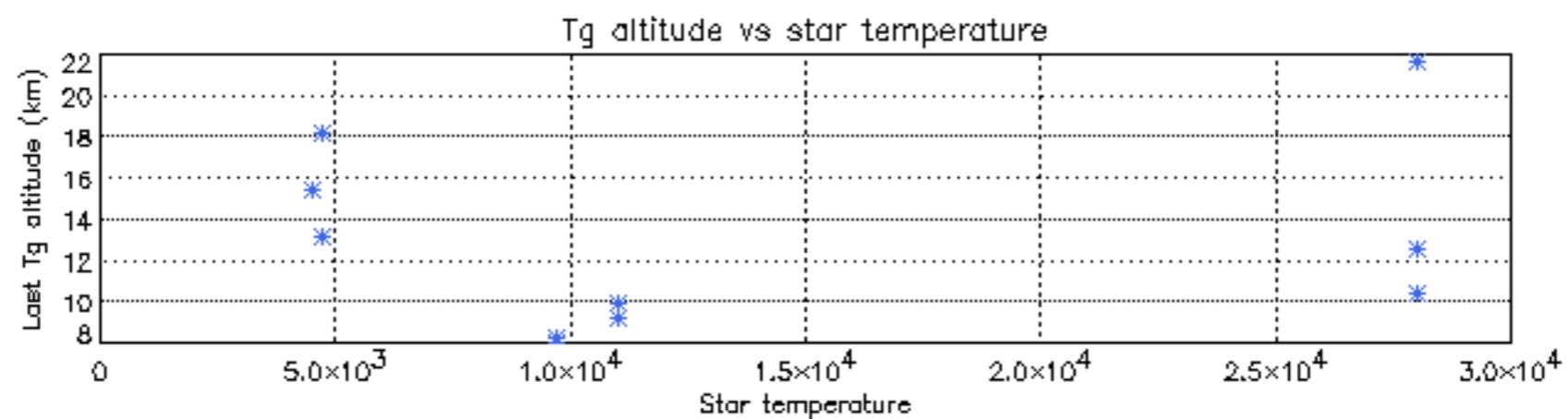
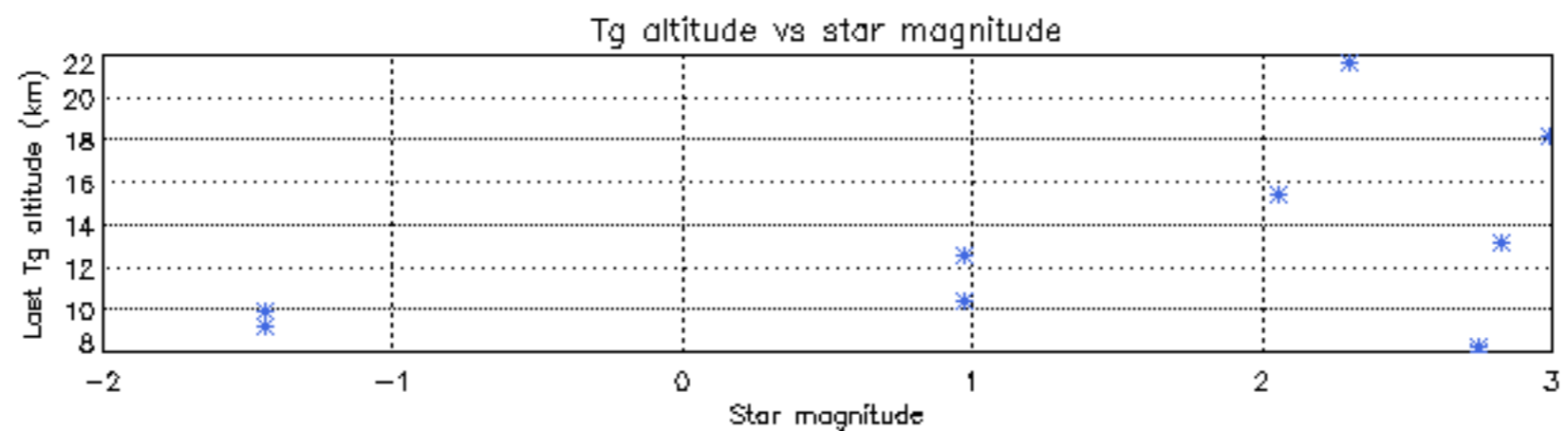
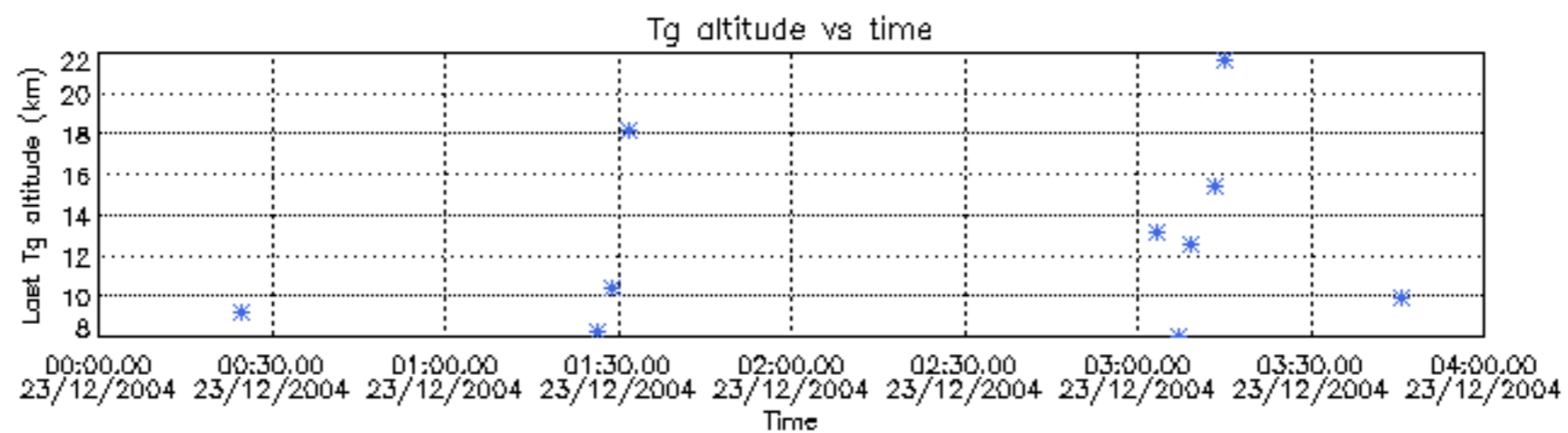
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041201_012037_000039862032_00317_14399_1281.N1
 1; -532.4; 01-DEC-2004 01:20:37; Dark ; 51.5; 106; 9Bet Crv ; 2.65; 5600;occ; 103; 0;14399
 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; 240mi2CMA ; 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
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041201_023107_000057962032_00318_14400_1282.N1
 1; -2338.3; 01-DEC-2004 02:31:07; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;14400
 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; Tot 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
17; 360.9; 01-DEC-2004 03:16:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14401
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
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32; 397.9; 05-DEC-2004 14:35:02; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;14465
33; 525.2; 05-DEC-2004 14:37:09; Dark ; 48.5; 41; Eps Car ; 1.86; 4100;occ; 97; 0;14465
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33; 16.1; 03-DEC-2004 18:53:07; Dark ; 39.0; 129; Del Cru ; 2.79; 26000;occ; 78; 0;14439
34; 281.2; 03-DEC-2004 18:57:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14439
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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041205_162850_000057342032_00384_14466_1572.N1

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 33; 289.3; 05-DEC-2004 17:54:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14467
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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041205_180338_000060602032_00385_14467_1573.N1

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16; 1542.9; 08-DEC-2004 23:22:51; Dark ; 86.0; 1; 9Alp CMa ;-1.44; 11000;occ; 172; 0;14513
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15;-2036.0; 08-DEC-2004 15:40:48; Bright; 42.0; 32; 77Eps UMa ; 1.76; 11000;occ; 84; 0;14508
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16; 10.7; 09-DEC-2004 03:59:06; Dark ; 44.0; 20; Bet Cru ; 1.25; 30000;occ; 88; 0;14516
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36; 2853.5; 09-DEC-2004 04:46:29; Bright; 48.0; 42; 34Bet Aur ; 1.90; 10200;occ; 96; 0;14516
37; 2985.3; 09-DEC-2004 04:48:41; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;14516
38; 3178.5; 09-DEC-2004 04:51:54; Bright; 103.5; 24; 66Alp Gem ; 1.58; 10200;occ; 207; 0;14516
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17; 186.1; 09-DEC-2004 05:42:38; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;14517
18; 303.9; 09-DEC-2004 05:44:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14517
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23; -832.2; 09-DEC-2004 08:46:51; Dark ; 58.0; 121; 29Gam Vir ; 2.74; 7200;occ; 116; 0;14518
24; -562.2; 09-DEC-2004 08:51:21; Dark ; 47.0; 169; 46Gam Hya ; 2.99; 4700;occ; 94; 0;14518
25; -436.1; 09-DEC-2004 08:53:28; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;14518
26; -360.0; 09-DEC-2004 08:54:44; Dark ; 41.5; 123; Iot Cen ; 2.75; 10200;occ; 83; 0;14518
27; -252.8; 09-DEC-2004 08:56:31; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;14518
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29; 12.6; 09-DEC-2004 09:00:56; Dark ; 39.0; 20; Bet Cru ; 1.25; 30000;occ; 78; 0;14519
30; 187.9; 09-DEC-2004 09:03:52; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;14519
31; 304.5; 09-DEC-2004 09:05:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14519
32; 421.2; 09-DEC-2004 09:07:45; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;14519
33; 554.1; 09-DEC-2004 09:09:58; Dark ; 60.5; 65; Lam Vel ; 2.20; 4400;occ; 121; 0;14519
34; 706.2; 09-DEC-2004 09:12:30; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;14519

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22;-1708.1; 09-DEC-2004 21:57:03; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;14526
23;-1522.2; 09-DEC-2004 22:00:09; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;14526
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16; 1541.5; 09-DEC-2004 22:51:12; Dark ; 72.5; 1; 9Alp CMa ;-1.44; 11000;occ; 145; 0;14527
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13;-2615.4; 10-DEC-2004 07:45:31; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;14532
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15;-2150.2; 10-DEC-2004 07:53:16; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;14532
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31; 308.6; 10-DEC-2004 08:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14533
32; 427.3; 10-DEC-2004 08:36:14; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;14533
33; 567.1; 10-DEC-2004 08:38:33; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;14533
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35; 871.5; 10-DEC-2004 08:43:38; Dark ; 56.0; 2; Alp Car ;-0.74; 7000;occ; 112; 0;14533
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37; 1226.8; 10-DEC-2004 08:49:33; Dark ; 61.5; 23; 21Eps CMA ; 1.50; 26000;occ; 123; 0;14533
38; 1341.8; 10-DEC-2004 08:51:28; Dark ; 59.5; 179; 240mi2CMA ; 3.03; 24000;occ; 119; 0;14533
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22;-762.0; 10-DEC-2004 11:37:36; Dark ; 49.5; 15; 67Alp Vir ; 0.98; 28000;occ; 99; 0;14534
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24;-431.1; 10-DEC-2004 11:43:07; Dark ; 48.5; 54; 5The Cen ; 2.06; 4500;occ; 97; 0;14534
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27;-66.9; 10-DEC-2004 11:49:11; Dark ; 44.0; 4; Alp1Cen ; -0.01; 5800;occ; 88; 0;14534
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29; 201.7; 10-DEC-2004 11:53:40; Dark ; 49.5; 113; Mu Vel ; 2.69; 5000;occ; 99; 0;14535
30; 309.2; 10-DEC-2004 11:55:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14535
31; 427.7; 10-DEC-2004 11:57:26; Dark ; 42.0; 29; Bet Car ; 1.67; 10200;occ; 84; 0;14535
32; 567.9; 10-DEC-2004 11:59:46; Dark ; 45.5; 41; Eps Car ; 1.86; 4100;occ; 91; 0;14535
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34; 871.7; 10-DEC-2004 12:04:50; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;14535
35; 1021.5; 10-DEC-2004 12:07:20; Dark ; 59.5; 117; Pi Pup ; 2.71; 3800;occ; 119; 0;14535
36; 1227.1; 10-DEC-2004 12:10:45; Dark ; 60.5; 23; 21Eps CMa ; 1.50; 26000;occ; 121; 0;14535
37; 1342.1; 10-DEC-2004 12:12:40; Dark ; 62.5; 179; 240mi2CMa ; 3.03; 24000;occ; 125; 0;14535
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27; 201.7; 10-DEC-2004 13:34:16; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;14536
28; 309.6; 10-DEC-2004 13:36:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14536
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31; 719.6; 10-DEC-2004 13:42:54; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;14536
32; 871.7; 10-DEC-2004 13:45:26; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;14536
33; 1021.8; 10-DEC-2004 13:47:56; Dark ; 59.0; 117; Pi Pup ; 2.71; 3800;occ; 118; 0;14536
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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041210_135638_000057242032_00454_14536_1627.N1

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18;-1112.9; 10-DEC-2004 14:52:57; Bright; 49.5; 138; 47Eps Vir ; 2.83; 4700;occ; 99; 0;14536
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29; 427.3; 10-DEC-2004 15:18:37; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;14537
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31; 718.5; 10-DEC-2004 15:23:28; Dark ; 52.5; 34; Gam2Vel ; 1.79; 23000;occ; 105; 0;14537
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33; 1022.8; 10-DEC-2004 15:28:33; Dark ; 57.0; 117; Pi Pup ; 2.71; 3800;occ; 114; 0;14537
34; 1226.5; 10-DEC-2004 15:31:56; Dark ; 6.5; 23; 21Eps CMA ; 1.50; 26000;occ; 13; 0;14537

/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041210_203022_000041212032_00458_14540_1386.N1

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3; 1344.9; 10-DEC-2004 20:35:43; Dark ; 60.0; 179; 240mi2CMA ; 3.03; 24000;occ; 120; 0;14540
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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041210_213848_000061822032_00458_14540_1387.N1

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12; 570.7; 10-DEC-2004 22:03:24; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;14541
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10; -746.2; 12-DEC-2004 03:52:14; Dark ; 50.5; 15; 67Alp Vir ; 0.98; 28000;occ; 101; 0;14558
11; -538.2; 12-DEC-2004 03:55:42; Dark ; 45.0; 169; 46Gam Hya ; 2.99; 4700;occ; 90; 0;14558
12; -423.2; 12-DEC-2004 03:57:37; Dark ; 47.5; 54; 5The Cen ; 2.06; 4500;occ; 95; 0;14558
13; -339.5; 12-DEC-2004 03:59:00; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;14558
14; -240.9; 12-DEC-2004 04:00:39; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;14558
15; -64.3; 12-DEC-2004 04:03:36; Dark ; 52.0; 4; Alp1Cen ;-0.01; 5800;occ; 104; 0;14558
16; 27.7; 12-DEC-2004 04:05:08; Dark ; 43.5; 20; Bet Cru ; 1.25; 30000;occ; 87; 0;14559
17; 222.3; 12-DEC-2004 04:08:22; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;14559
18; 316.4; 12-DEC-2004 04:09:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14559
19; 437.2; 12-DEC-2004 04:11:57; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;14559
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25; 1349.5; 12-DEC-2004 04:27:09; Dark ; 62.0; 179; 240mi2CMA ; 3.03; 24000;occ; 124; 0;14559
26; 1547.5; 12-DEC-2004 04:30:27; Dark ; 69.5; 1; 9Alp CMA ;-1.44; 11000;occ; 139; 0;14559
27; 1746.6; 12-DEC-2004 04:33:47; Dark ; 56.5; 7; 19Bet Ori ; 0.10; 14000;occ; 113; 0;14559
28; 1889.9; 12-DEC-2004 04:36:10; Dark ; 52.5; 30; 46Eps Ori ; 1.69; 30000;occ; 105; 0;14559
29; 2034.4; 12-DEC-2004 04:38:34; Dark ; 54.5; 27; 24Gam Ori ; 1.64; 26000;occ; 109; 0;14559
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32; 2686.1; 12-DEC-2004 04:49:26; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;14559
33; 2818.3; 12-DEC-2004 04:51:38; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 0;14559
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6; -1518.4; 12-DEC-2004 05:19:58; Bright; 39.5; 83; ; 2.38; 11000;occ; 79; 0;14559
7; -1325.3; 12-DEC-2004 05:23:11; Bright; 43.5; 111; 8Eta Boo ; 2.68; 6000;occ; 87; 0;14559
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13; -338.0; 12-DEC-2004 05:39:38; Dark ; 44.5; 123; Iot Cen ; 2.75; 10200;occ; 89; 0;14559
14; -239.8; 12-DEC-2004 05:41:16; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;14559
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16; 28.5; 12-DEC-2004 05:45:44; Dark ; 42.5; 20; Bet Cru ; 1.25; 30000;occ; 85; 0;14560
17; 223.1; 12-DEC-2004 05:48:59; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;14560
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26; 1547.0; 12-DEC-2004 06:11:03; Dark ; 77.0; 1; 9Alp CMa ; -1.44; 11000;occ; 154; 0;14560
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32; 2449.5; 12-DEC-2004 06:26:06; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;14560
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36; 2999.5; 12-DEC-2004 06:35:16; Bright; 36.5; 110; 37Del Cas ; 2.68; 8900;occ; 73; 0;14560
37; 3151.0; 12-DEC-2004 06:37:47; Bright; 115.0; 17; 78Bet Gem ; 1.16; 4500;occ; 230; 0;14560
38; 3419.3; 12-DEC-2004 06:42:15; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;14560
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12; 2447.9; 12-DEC-2004 21:31:27; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;14569
13; 2587.7; 12-DEC-2004 21:33:47; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0;14569
14; 2717.3; 12-DEC-2004 21:35:56; Bright; 37.5; 175; 39Del Per ; 3.01; 19400;occ; 75; 0;14569
15; 2818.5; 12-DEC-2004 21:37:38; Bright; 39.0; 160; 23Gam Per ; 2.93; 4700;occ; 78; 0;14569
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19; 3703.2; 12-DEC-2004 21:52:22; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;14569
20; 3836.0; 12-DEC-2004 21:54:35; Bright; 51.5; 82; 48Bet UMA ; 2.37; 10600;occ; 103; 0;14569
21; 3988.5; 12-DEC-2004 21:57:08; Bright; 43.5; 32; 77Eps UMA ; 1.76; 11000;occ; 87; 0;14569
22; 4137.5; 12-DEC-2004 21:59:37; Bright; 57.0; 39; 85Eta UMA ; 1.85; 24000;occ; 114; 0;14569
23; 4331.8; 12-DEC-2004 22:02:51; Bright; 44.0; 180; 27Gam Boo ; 3.04; 8000;occ; 88; 0;14569
24; 4521.6; 12-DEC-2004 22:06:01; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;14569

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4; -418.9; 12-DEC-2004 22:24:16; Dark ; 46.5; 54; 5The Cen ; 2.06; 4500;occ; 93; 0;14569
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6; -236.9; 12-DEC-2004 22:27:18; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;14569
7; -64.0; 12-DEC-2004 22:30:11; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;14569
8; 32.0; 12-DEC-2004 22:31:47; Dark ; 47.0; 20; Bet Cru ; 1.25; 30000;occ; 94; 0;14570
9; 155.8; 12-DEC-2004 22:33:51; Dark ; 41.0; 112; Alp Mus ; 2.69; 26000;occ; 82; 0;14570
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16; 1244.3; 12-DEC-2004 22:51:59; Dark ; 59.5; 23; 21Eps CMa ; 1.50; 26000;occ; 119; 0;14570
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31; 3988.3; 12-DEC-2004 23:37:43; Bright; 44.0; 32; 77Eps UMa ; 1.76; 11000;occ; 88; 0;14570
32; 4137.4; 12-DEC-2004 23:40:13; Bright; 41.0; 39; 85Eta UMa ; 1.85; 24000;occ; 82; 0;14570
33; 4332.0; 12-DEC-2004 23:43:27; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;14570
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37; 5098.6; 12-DEC-2004 23:56:14; Dark ; 92.0; 62; 94Bet Leo ; 2.14; 9700;occ; 184; 0;14570
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3; -418.5; 13-DEC-2004 00:04:52; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;14570
4; -334.6; 13-DEC-2004 00:06:16; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;14570
5; -62.9; 13-DEC-2004 00:10:48; Dark ; 43.5; 4; Alp1Cen ; -0.01; 5800;occ; 87; 0;14570
6; 32.4; 13-DEC-2004 00:12:23; Dark ; 41.5; 20; Bet Cru ; 1.25; 30000;occ; 83; 0;14571
7; 157.8; 13-DEC-2004 00:14:29; Dark ; 40.0; 112; Alp Mus ; 2.69; 26000;occ; 80; 0;14571
8; 320.0; 13-DEC-2004 00:17:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14571
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14; 1244.2; 13-DEC-2004 00:32:35; Dark ; 62.0; 23; 21Eps CMa ; 1.50; 26000;occ; 124; 0;14571
15; 1356.5; 13-DEC-2004 00:34:27; Dark ; 56.0; 179; 240mi2CMa ; 3.03; 24000;occ; 112; 0;14571
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22; 2447.8; 13-DEC-2004 00:52:39; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;14571
23; 2586.6; 13-DEC-2004 00:54:58; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;14571
24; 2717.1; 13-DEC-2004 00:57:08; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0;14571
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31; 4331.4; 13-DEC-2004 01:24:02; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;14571
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7; 204.6; 22-DEC-2004 22:20:16; Dark ; 38.0; 112; Alp Mus ; 2.69; 26000;occ; 76; 0;14713

```

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8; 362.3; 22-DEC-2004 22:22:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14713
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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041227_082047_000060442033_00193_14776_1925.N1

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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041227_163642_000058992033_00198_14781_1930.N1

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36; 711.8; 29-DEC-2004 20:27:59; Dark ; 55.5; 41; Eps Car ; 1.86; 4100;occ; 111; 0;14812

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27; 2693.0; 30-DEC-2004 02:02:48; Bright; 43.5; 6; 13Alp Aur ; 0.08; 3400;occ; 87; 0;14815
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12; -119.2; 30-DEC-2004 02:56:32; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;14815
13; -9.9; 30-DEC-2004 02:58:21; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;14815

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14;-2614.7; 30-DEC-2004 13:59:08; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;14822
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16;-2186.2; 30-DEC-2004 14:06:16; Bright; 56.0; 87; 64Gam UMa ; 2.43; 11000;occ; 112; 0;14822
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19;-1684.6; 30-DEC-2004 14:14:38; Bright; 42.0; 180; 27Gam Boo ; 3.04; 8000;occ; 84; 0;14822
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21;-1220.4; 30-DEC-2004 14:22:22; Bright; 76.0; 111; 8Eta Boo ; 2.68; 6000;occ; 152; 0;14822
22;-694.8; 30-DEC-2004 14:31:07; Dark ; 47.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 94; 0;14822
23;-500.3; 30-DEC-2004 14:34:22; Dark ; 65.5; 15; 67Alp Vir ; 0.98; 28000;occ; 131; 0;14822
24;-368.4; 30-DEC-2004 14:36:34; Dark ; 43.0; 131; Gam Lup ; 2.80; 26000;occ; 86; 0;14822
25;-289.8; 30-DEC-2004 14:37:52; Dark ; 41.0; 109; Bet Lup ; 2.68; 26000;occ; 82; 0;14822
26;-203.8; 30-DEC-2004 14:39:18; Dark ; 45.0; 78; Alp Lup ; 2.30; 28000;occ; 90; 0;14822
27;-115.4; 30-DEC-2004 14:40:47; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;14822
28;-8.5; 30-DEC-2004 14:42:34; Dark ; 51.5; 4; Alp1Cen ;-0.01; 5800;occ; 103; 0;14822
29; 219.3; 30-DEC-2004 14:46:21; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;14823

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31; 538.8; 30-DEC-2004 14:51:41; Dark ; 44.0; 29; Bet Car ; 1.67; 10200;occ; 88; 0;14823
32; 619.9; 30-DEC-2004 14:53:02; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;14823
33; 715.9; 30-DEC-2004 14:54:38; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;14823
34; 831.3; 30-DEC-2004 14:56:33; Dark ; 59.5; 65; Lam Vel ; 2.20; 4400;occ; 119; 0;14823
35; 972.0; 30-DEC-2004 14:58:54; Dark ; 50.0; 2; Alp Car ;-0.74; 7000;occ; 100; 0;14823
36; 1162.4; 30-DEC-2004 15:02:05; Dark ; 52.5; 117; Pi Pup ; 2.71; 3800;occ; 105; 0;14823
37; 1333.9; 30-DEC-2004 15:04:56; Dark ; 40.5; 23; 21Eps CMA ; 1.50; 26000;occ; 81; 0;14823
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7;-3704.7; 30-DEC-2004 13:40:58; Bright; 47.5; 151; 13Mu Gem ; 2.89; 3000;occ; 95; 0;14822
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31; 619.9; 30-DEC-2004 14:53:02; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;14823
32; 715.9; 30-DEC-2004 14:54:38; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;14823
33; 831.3; 30-DEC-2004 14:56:33; Dark ; 59.5; 65; Lam Vel ; 2.20; 4400;occ; 119; 0;14823
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11;-3465.9; 30-DEC-2004 15:25:32; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;14823
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19;-1925.5; 30-DEC-2004 15:51:13; Bright; 44.5; 39; 85Eta UMa ; 1.85; 24000;occ; 89; 0;14823
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23; -696.1; 30-DEC-2004 16:11:42; Dark ; 49.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 98; 0;14823
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25; -366.3; 30-DEC-2004 16:17:12; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;14823
26; -288.8; 30-DEC-2004 16:18:29; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;14823
27; -203.4; 30-DEC-2004 16:19:55; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;14823
28; -115.4; 30-DEC-2004 16:21:23; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;14823
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30; 219.8; 30-DEC-2004 16:26:58; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;14824
31; 395.3; 30-DEC-2004 16:29:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14824
32; 537.4; 30-DEC-2004 16:32:16; Dark ; 42.0; 29; Bet Car ; 1.67; 10200;occ; 84; 0;14824
33; 620.5; 30-DEC-2004 16:33:39; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;14824
34; 714.6; 30-DEC-2004 16:35:13; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;14824
35; 832.1; 30-DEC-2004 16:37:10; Dark ; 51.0; 65; Lam Vel ; 2.20; 4400;occ; 102; 0;14824
36; 970.5; 30-DEC-2004 16:39:29; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;14824
37; 1162.8; 30-DEC-2004 16:42:41; Dark ; 51.0; 117; Pi Pup ; 2.71; 3800;occ; 102; 0;14824
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3; 1165.8; 30-DEC-2004 20:03:56; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;14826
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10; 2229.7; 30-DEC-2004 20:21:40; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;14826
11; 2327.4; 30-DEC-2004 20:23:18; Bright; 48.0; 151; 13Mu Gem ; 2.89; 3000;occ; 96; 0;14826
12; 2470.1; 30-DEC-2004 20:25:40; Bright; 39.0; 114; 3Iot Aur ; 2.69; 4600;occ; 78; 0;14826
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14; 2691.1; 30-DEC-2004 20:29:21; Bright; 43.5; 6; 13Alp Aur ; 0.08; 3400;occ; 87; 0;14826
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17; 3420.4; 30-DEC-2004 20:41:31; Bright; 40.5; 49; 1Alp UMi ; 1.99; 6300;occ; 81; 0;14826
18; 3603.4; 30-DEC-2004 20:44:34; Bright; 50.5; 36; 50Alp UMa ; 1.80; 6300;occ; 101; 0;14826
19; 3846.7; 30-DEC-2004 20:48:37; Bright; 55.0; 87; 64Gam UMa ; 2.43; 11000;occ; 110; 0;14826
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23; 4568.7; 30-DEC-2004 21:00:39; Bright; 61.0; 83; ; 2.38; 11000;occ; 122; 0;14826
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3; -850.0; 30-DEC-2004 21:10:56; Bright; 45.0; 104; 27Bet Lib ; 2.61; 13100;occ; 90; 0;14826
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7; -280.7; 30-DEC-2004 21:20:25; Dark ; 55.5; 54; 5The Cen ; 2.06; 4500;occ; 111; 0;14826
8; -138.6; 30-DEC-2004 21:22:47; Dark ; 47.5; 123; Iot Cen ; 2.75; 10200;occ; 95; 0;14826
9; 221.2; 30-DEC-2004 21:28:47; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;14827
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36; 1338.3; 31-DEC-2004 11:12:12; Dark ; 49.0; 23; 21Eps CMa ; 1.50; 26000;occ; 98; 0;14835
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32; 722.4; 31-DEC-2004 14:23:07; Dark ; 43.0; 41; Eps Car ; 1.86; 4100;occ; 86; 0;14837
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