

GOMOS Daily Report 25-JAN-2005

Level 0 and Level 1 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	27JAN2005 05:00:59

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (25JAN2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (26JAN2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	19
Nb of prods with errors	0

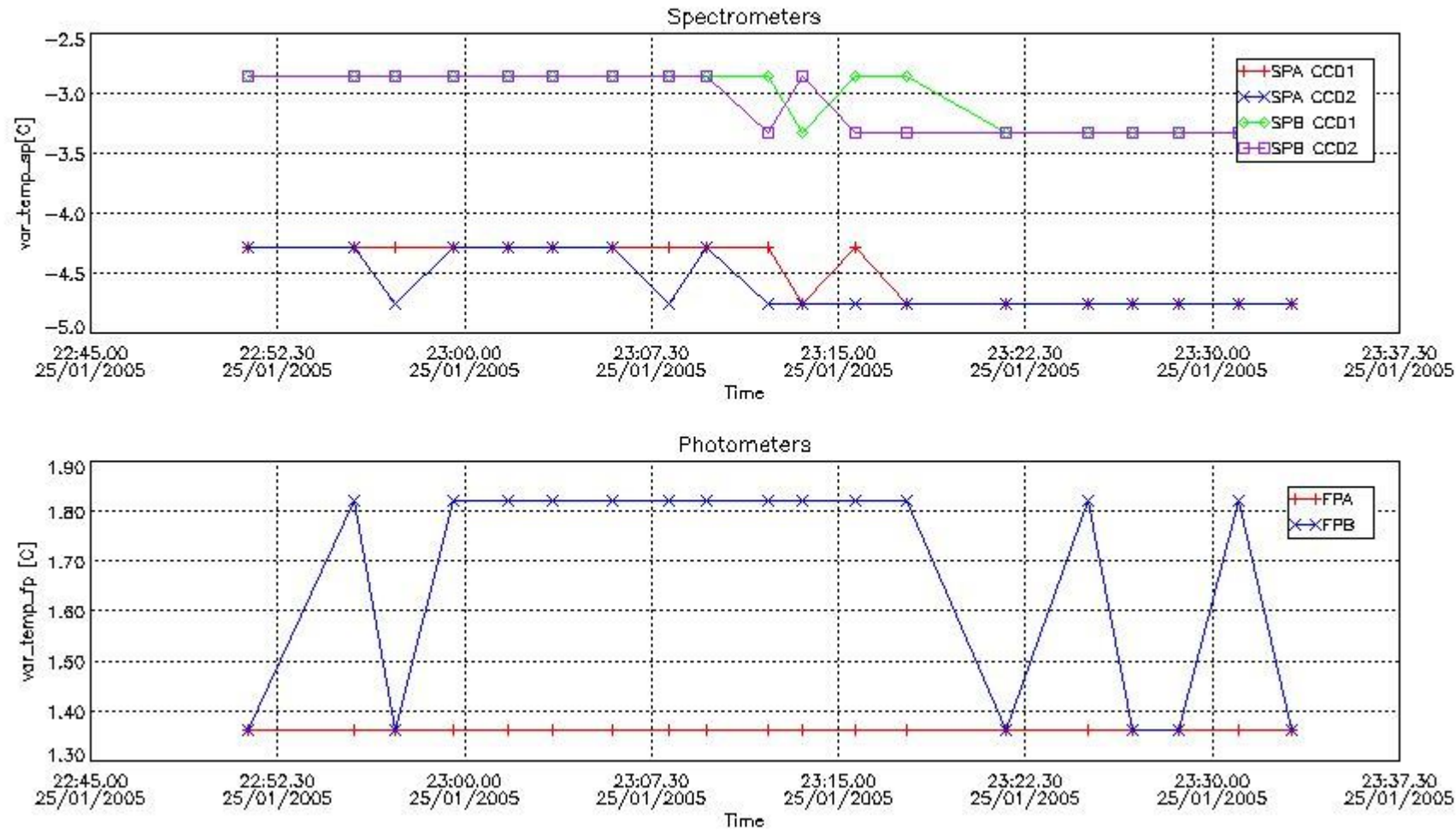
2. Summary of products arrived in PCF (Product Control Facility)

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

2.2 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20050125_225117_000000382034_00116_15200_0000.N1	25-JAN-2005 22:51:17	Dark	38.000	145	Gam TrA	2.8720	10600.	76	15200	No
2	GOM_TRA_1PNPDE20050125_225534_000000412034_00116_15200_0001.N1	25-JAN-2005 22:55:34	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	15200	No
3	GOM_TRA_1PNPDE20050125_225713_000000482034_00116_15200_0002.N1	25-JAN-2005 22:57:13	Dark	47.500	99	Del Cen	2.5750	26000.	95	15200	No
4	GOM_TRA_1PNPDE20050125_225930_000000392034_00116_15200_0003.N1	25-JAN-2005 22:59:30	Dark	38.500	29	Bet Car	1.6720	10200.	77	15200	No
5	GOM_TRA_1PNPDE20050125_230144_000000442034_00116_15200_0004.N1	25-JAN-2005 23:01:44	Dark	44.000	71	Iot Car	2.2460	7700.0	88	15200	No
6	GOM_TRA_1PNPDE20050125_230332_000000422034_00116_15200_0005.N1	25-JAN-2005 23:03:32	Dark	42.000	46	Del Vel	1.9540	10600.	84	15200	No
7	GOM_TRA_1PNPDE20050125_230554_000000472034_00116_15200_0006.N1	25-JAN-2005 23:05:54	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	15200	No
8	GOM_TRA_1PNPDE20050125_230813_000000412034_00116_15200_0007.N1	25-JAN-2005 23:08:13	Dark	41.000	70	Zet Pup	2.2460	39000.	82	15200	No
9	GOM_TRA_1PNPDE20050125_230941_000000432034_00116_15200_0008.N1	25-JAN-2005 23:09:41	Dark	43.000	117	Pi Pup	2.7060	3800.0	86	15200	No
10	GOM_TRA_1PNPDE20050125_231209_000000412034_00116_15200_0009.N1	25-JAN-2005 23:12:09	Twilight	41.000	23	21Eps CMa	1.5020	26000.	82	15200	No
11	GOM_TRA_1PNPDE20050125_231331_000000382034_00116_15200_0010.N1	25-JAN-2005 23:13:31	Twilight	37.500	179	24Omi2CMa	3.0320	24000.	75	15200	No
12	GOM_TRA_1PNPDE20050125_231541_000000372034_00116_15200_0011.N1	25-JAN-2005 23:15:41	Bright	36.500	1	9Alp CMa	-1.4400	11000.	73	15200	No
13	GOM_TRA_1PNPDE20050125_231744_000000592034_00116_15200_0012.N1	25-JAN-2005 23:17:44	Bright	58.500	48	30Alp Hya	1.9770	4100.0	117	15200	No
14	GOM_TRA_1PNPDE20050125_232144_000000552034_00116_15200_0013.N1	25-JAN-2005 23:21:44	Bright	55.000	8	10Alp CMi	0.40000	6500.0	110	15200	No
15	GOM_TRA_1PNPDE20050125_232459_000000392034_00116_15200_0014.N1	25-JAN-2005 23:24:59	Bright	39.000	44	24Gam Gem	1.9280	11000.	78	15200	No
16	GOM_TRA_1PNPDE20050125_232646_000000412034_00116_15200_0015.N1	25-JAN-2005 23:26:46	Bright	40.500	151	13Mu Gem	2.8900	3000.0	81	15200	No
17	GOM_TRA_1PNPDE20050125_232840_000000442034_00116_15200_0016.N1	25-JAN-2005 23:28:40	Bright	43.500	17	78Bet Gem	1.1610	4500.0	87	15200	No
18	GOM_TRA_1PNPDE20050125_233101_000000362034_00116_15200_0017.N1	25-JAN-2005 23:31:01	Bright	36.000	107	37The Aur	2.6490	11000.	72	15200	No
19	GOM_TRA_1PNPDE20050125_233308_000000362034_00116_15200_0018.N1	25-JAN-2005 23:33:08	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	15200	No

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



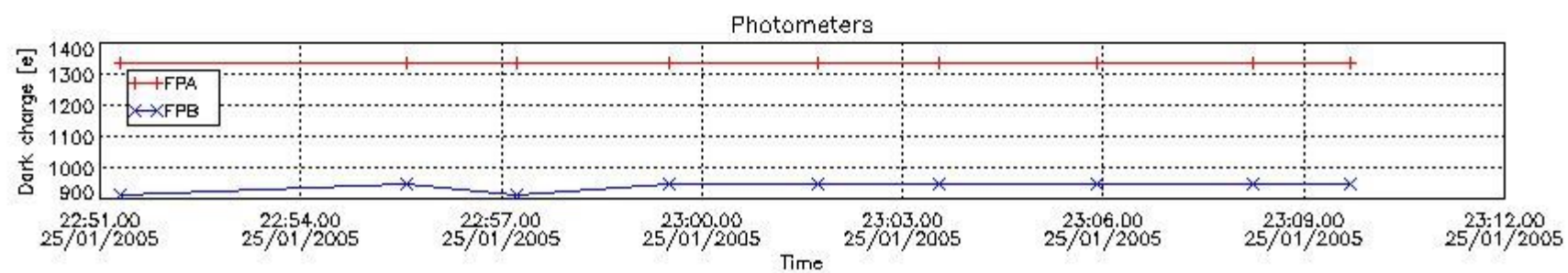
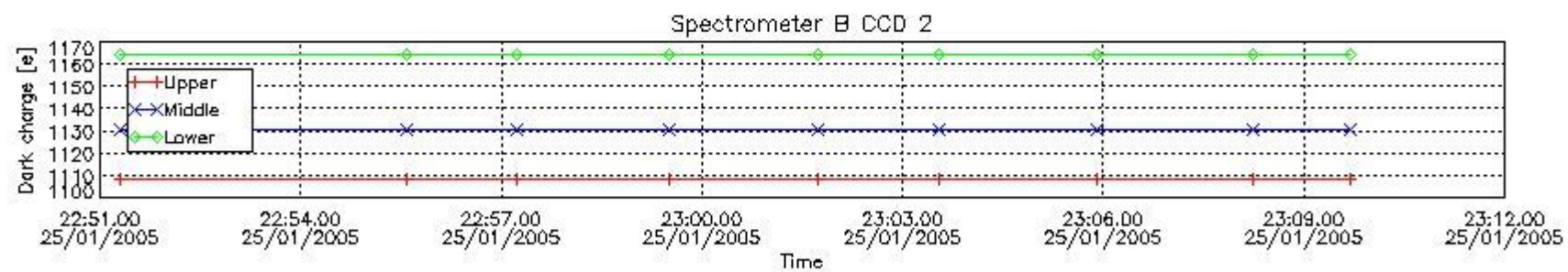
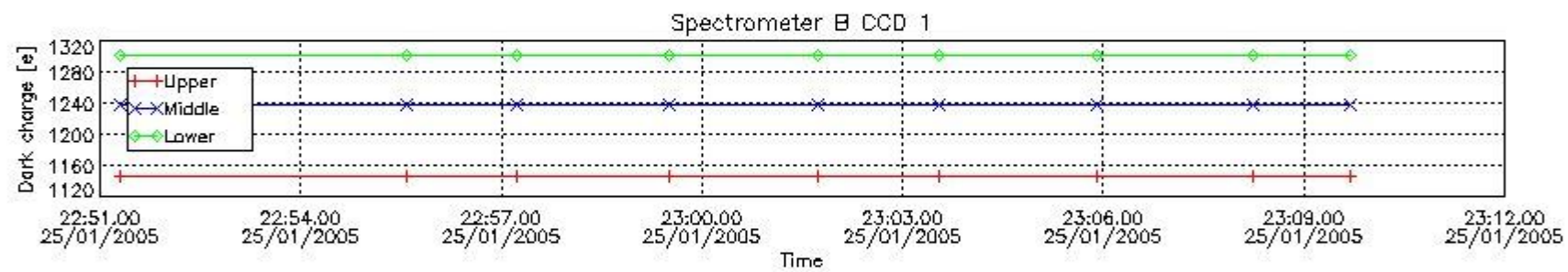
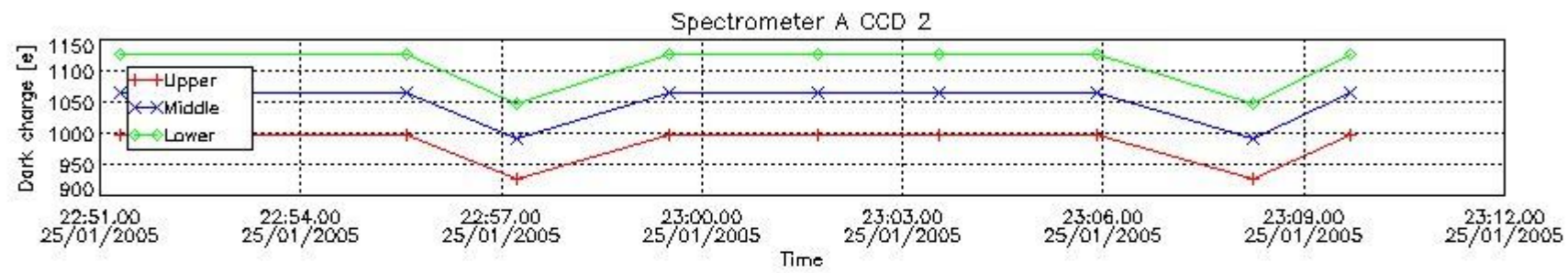
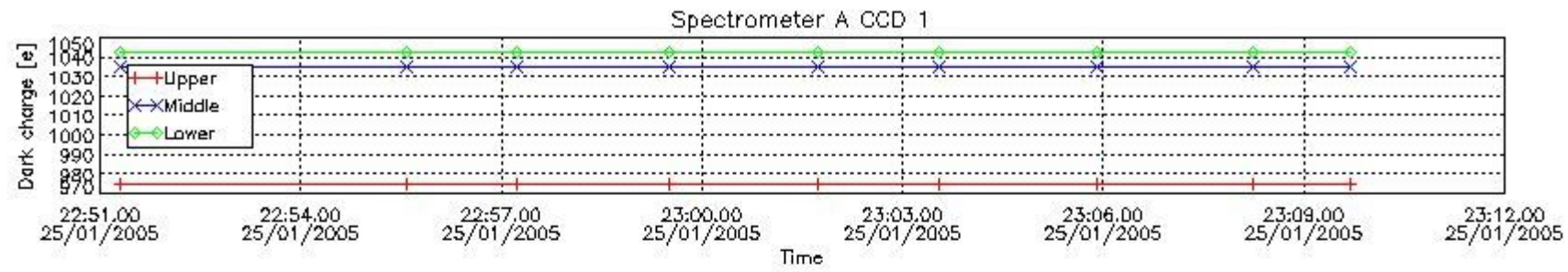
4. Overview of dark signal processing per product

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



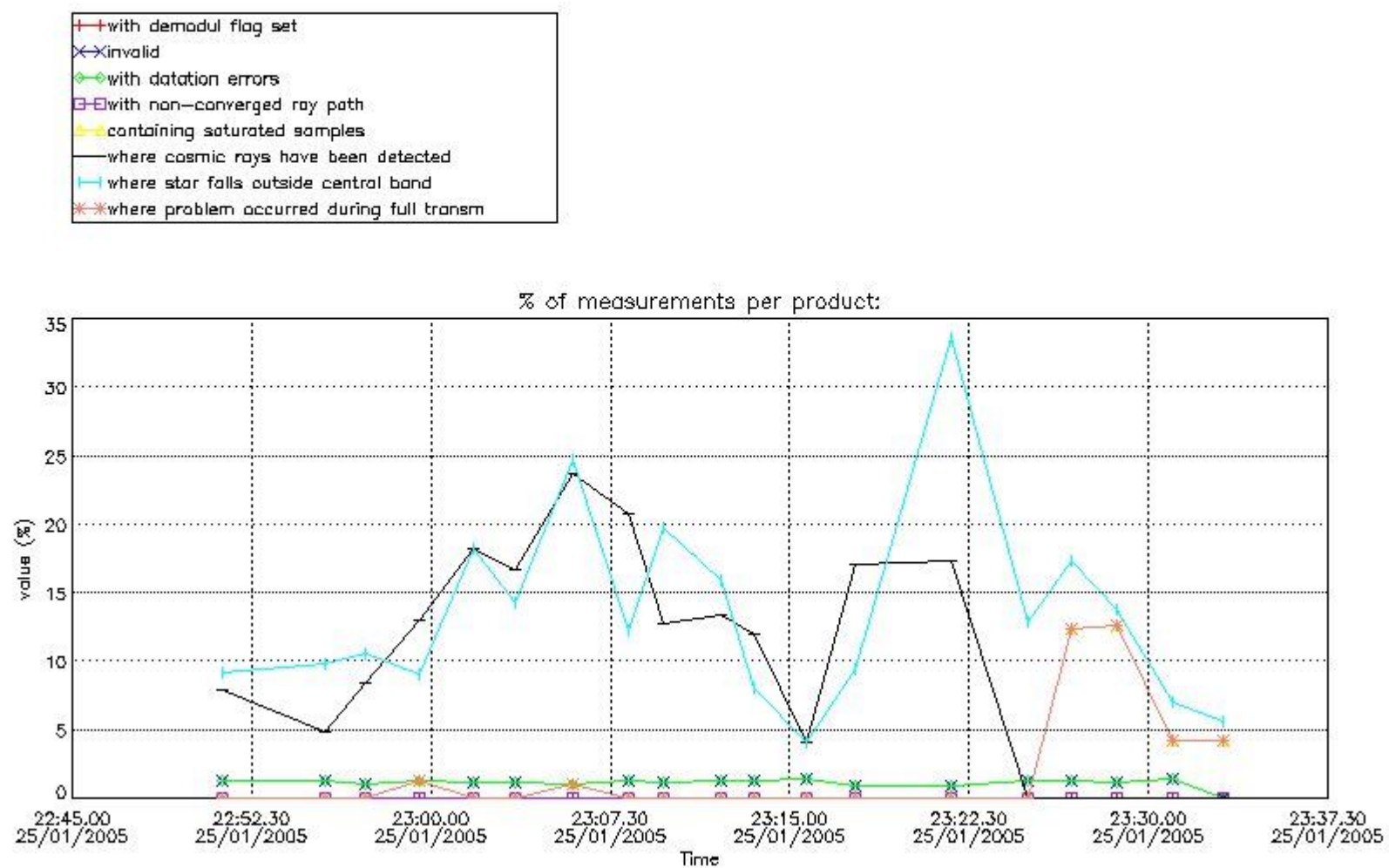
5. Demodulation flag and quality information monitoring

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.

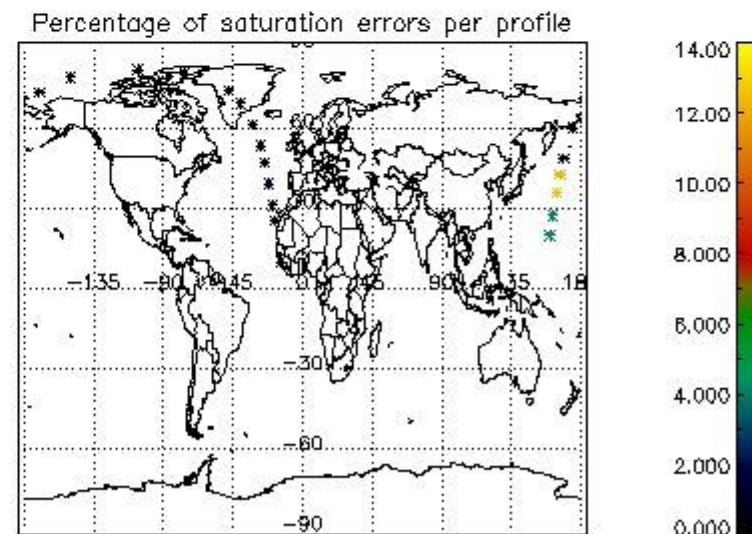
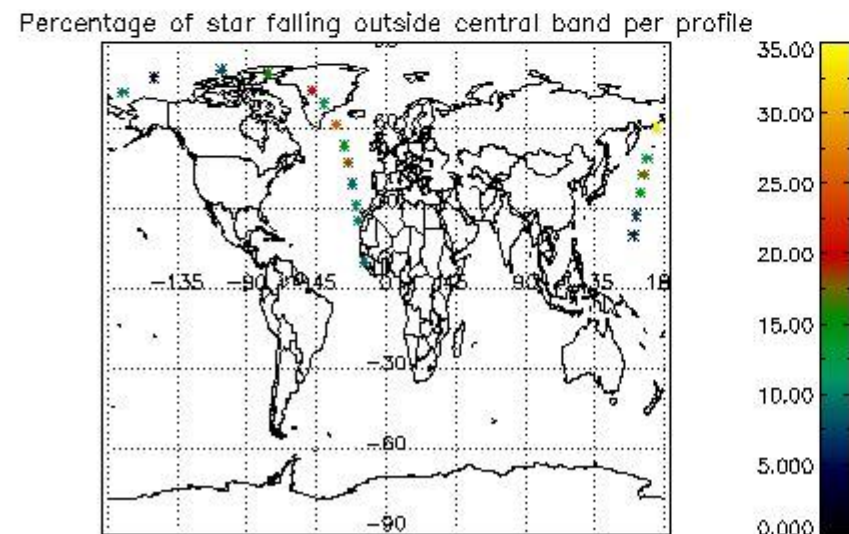
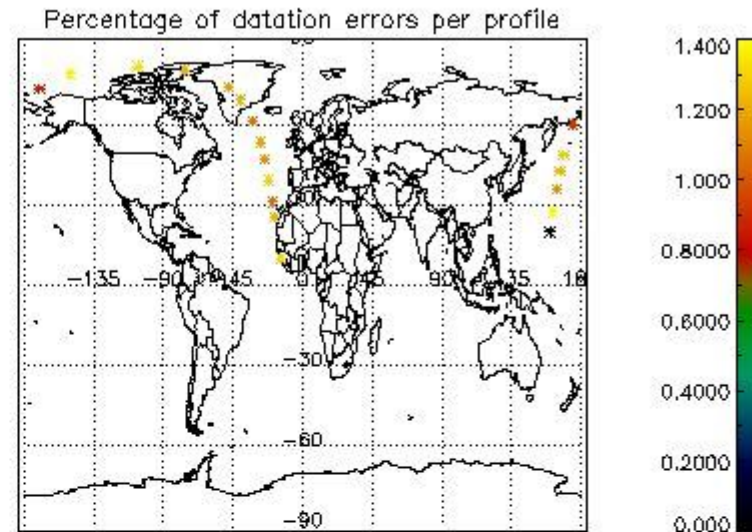
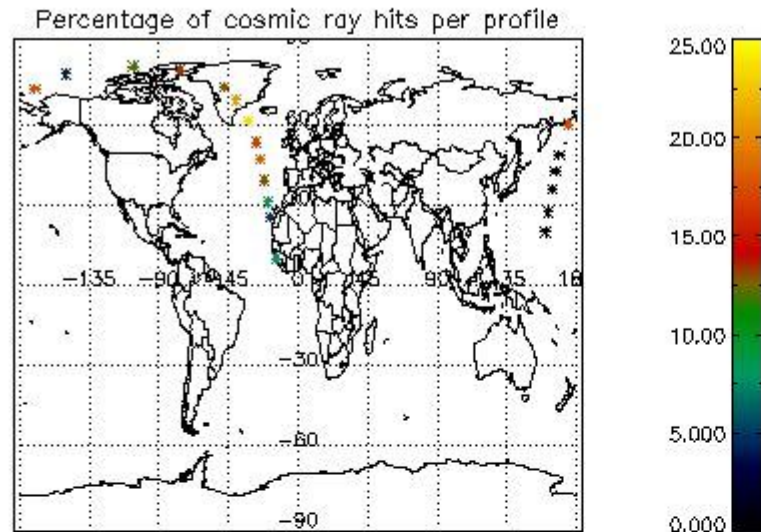
5.1 Percentage of products during reporting period with:

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)



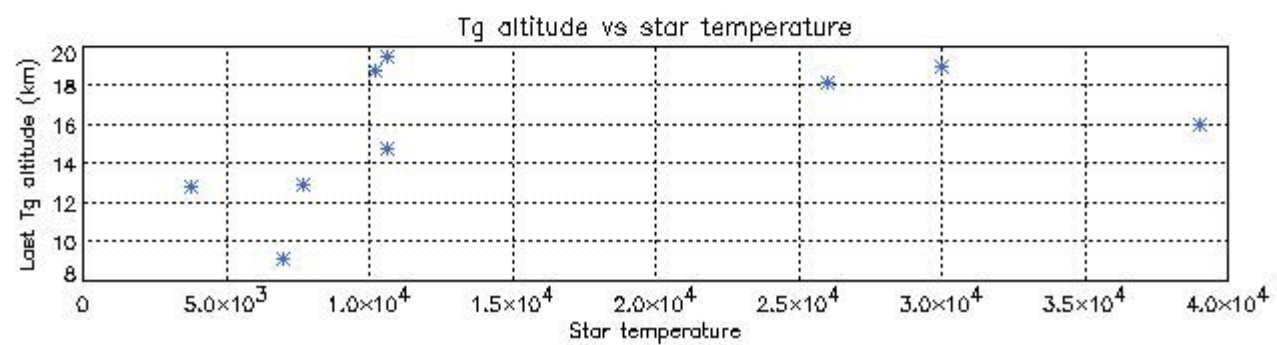
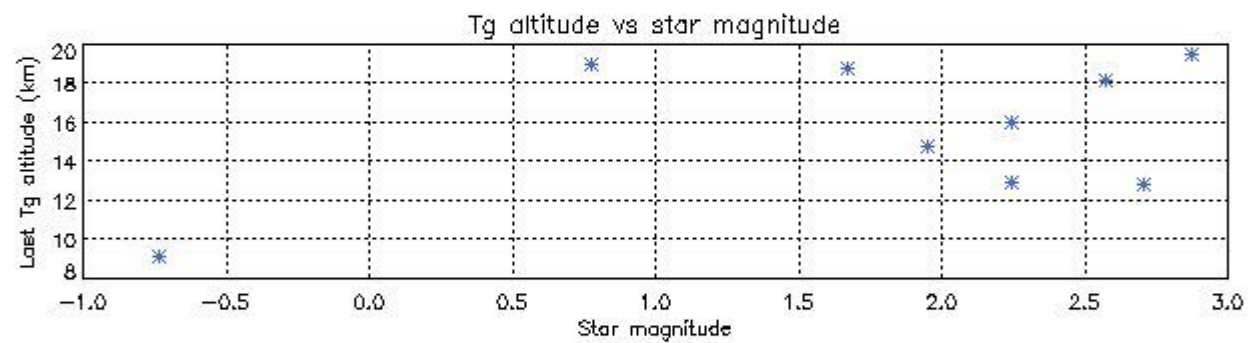
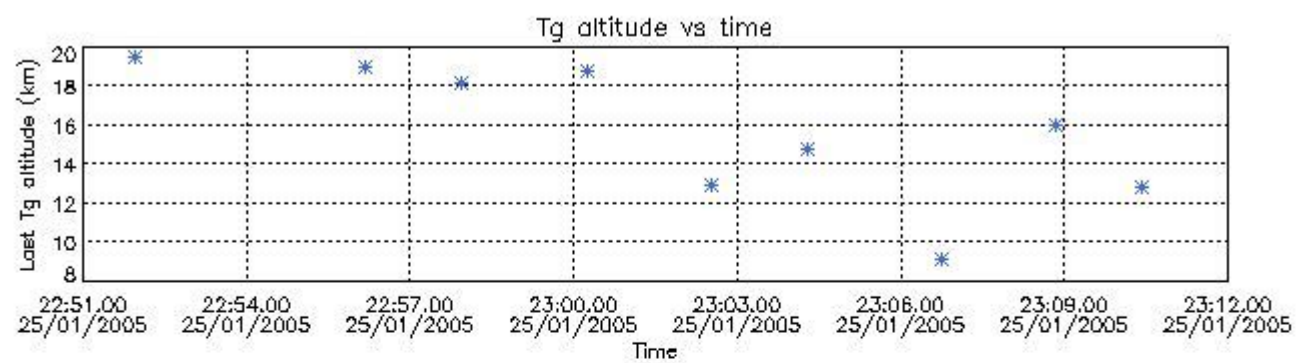
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.674	16.262	16.846
St. deviation:	3.5462	5.3608	3.4024
Maximum:	19.498	21.976	19.252
Minimum:	9.1168	5.2008	14.440
Number of data:	9.0000	8.0000	2.0000

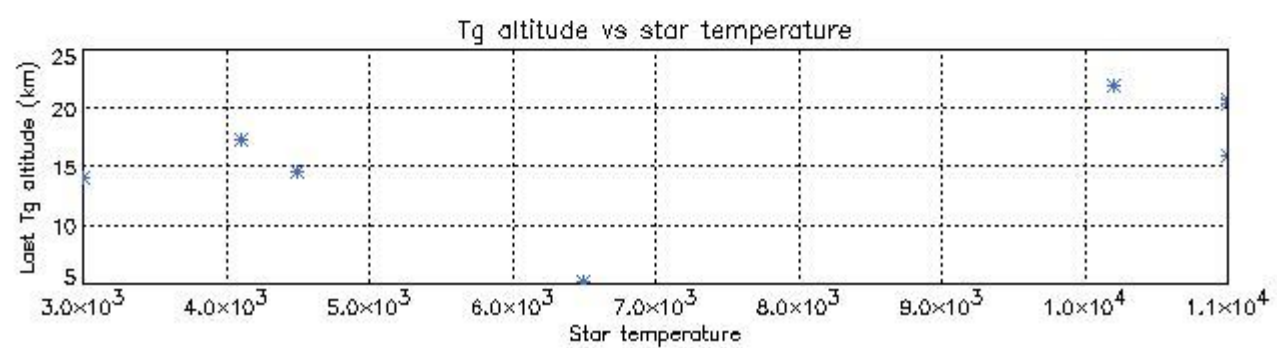
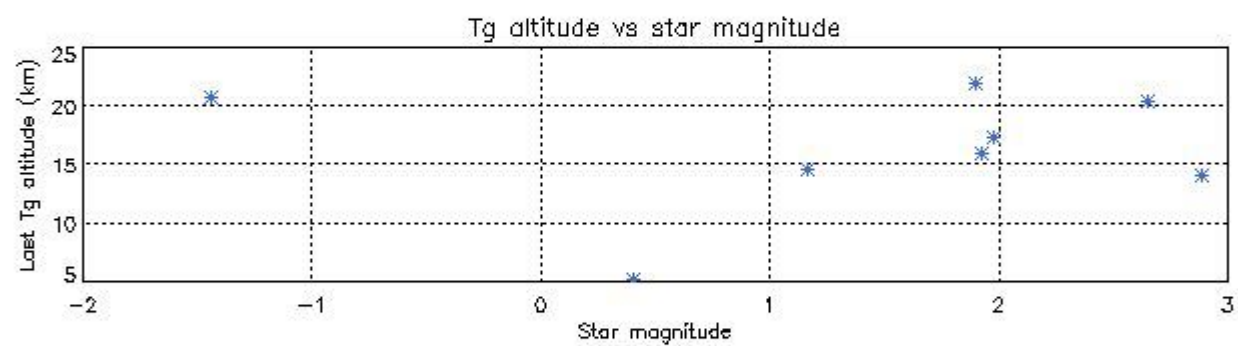
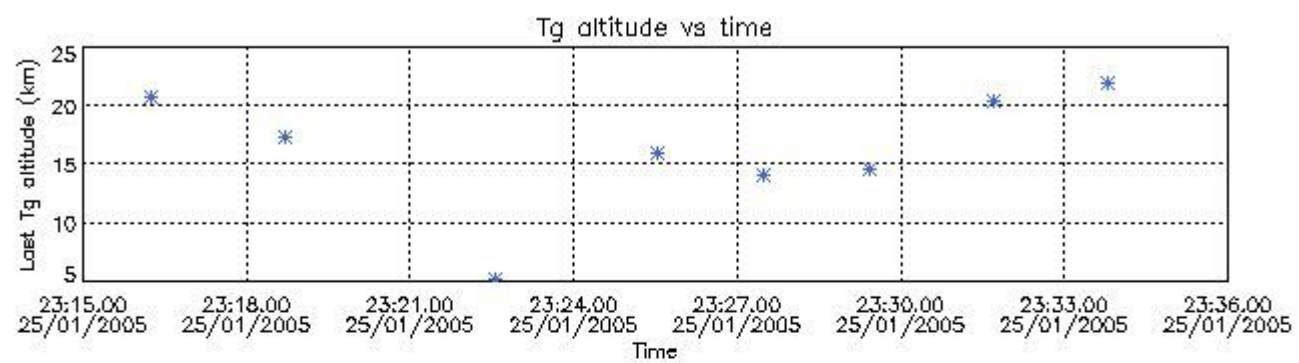
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



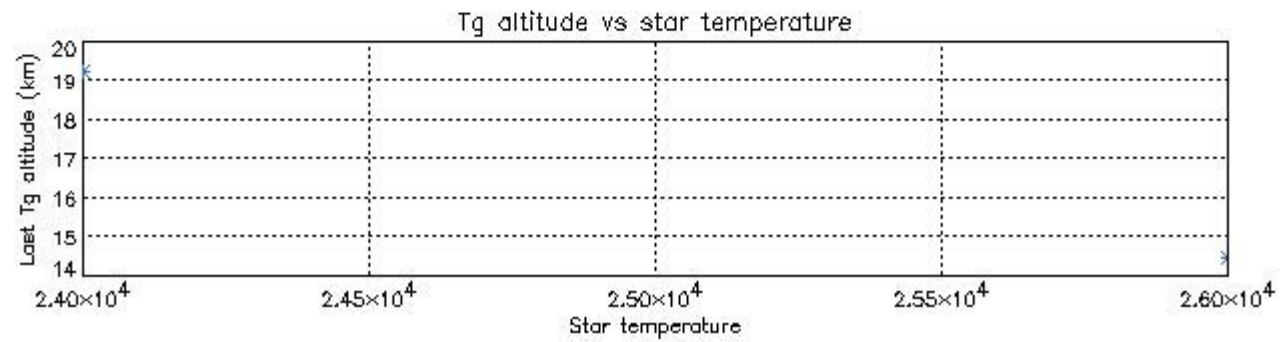
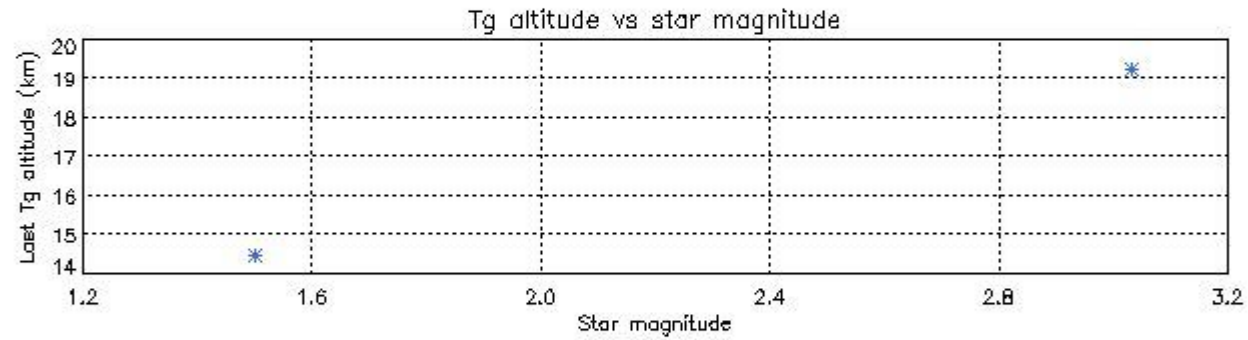
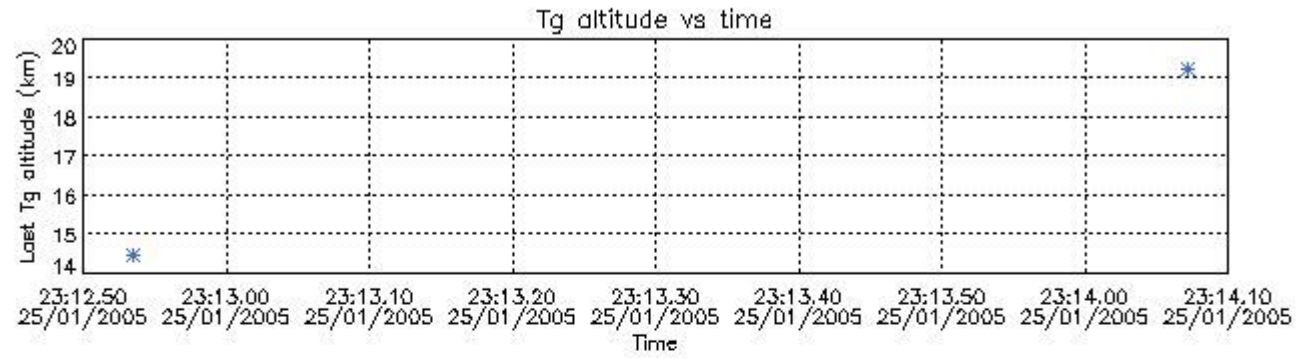
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

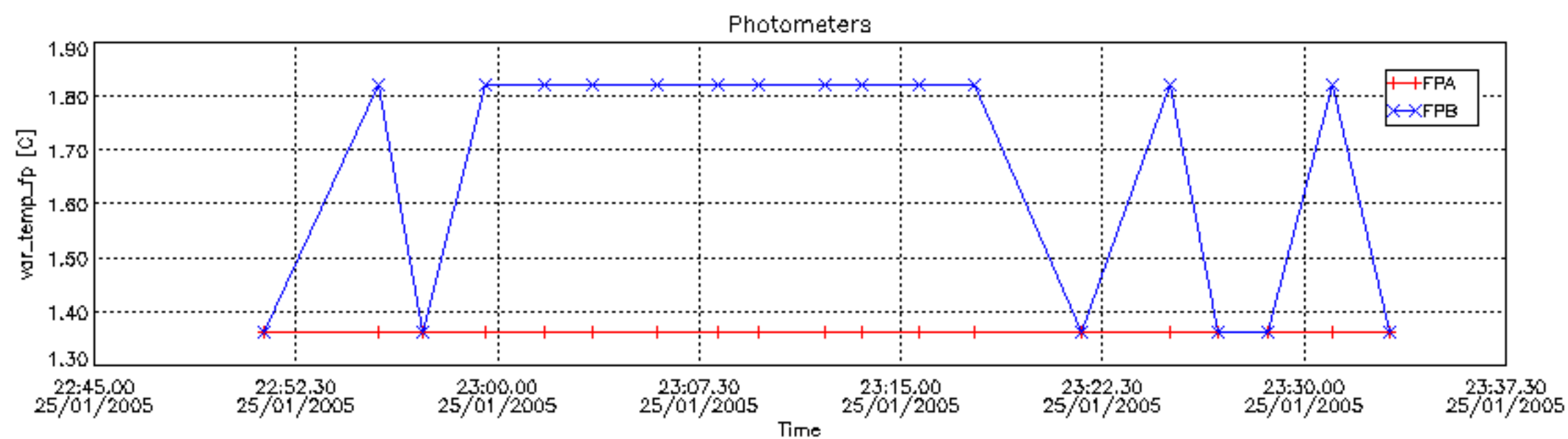
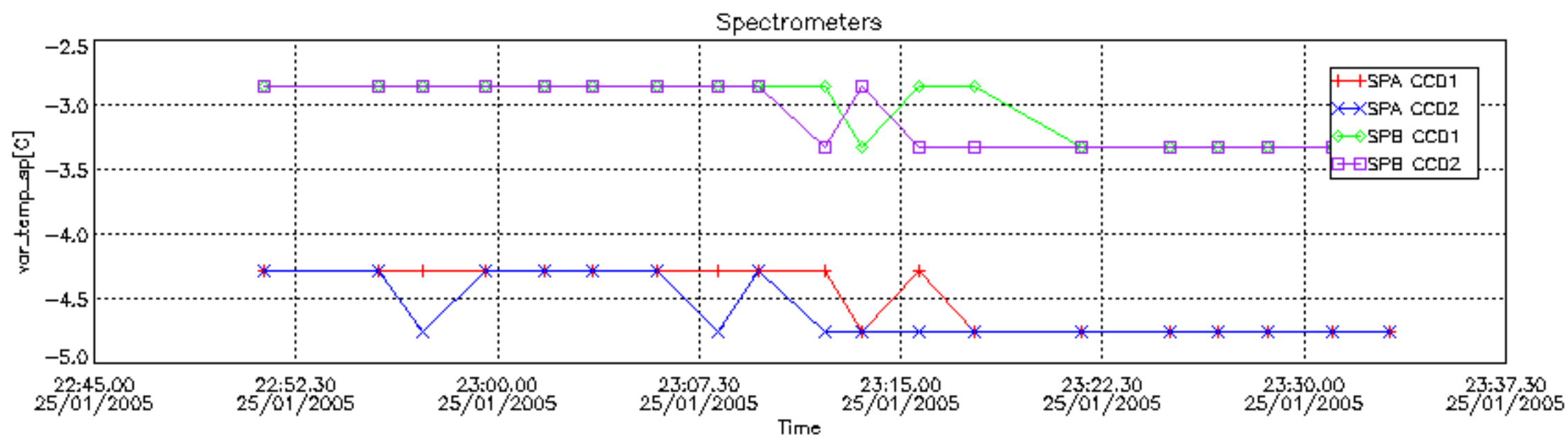
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

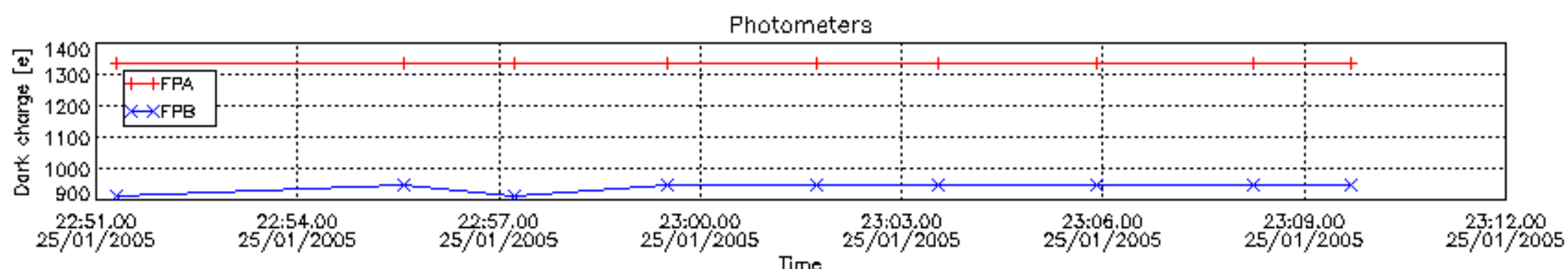
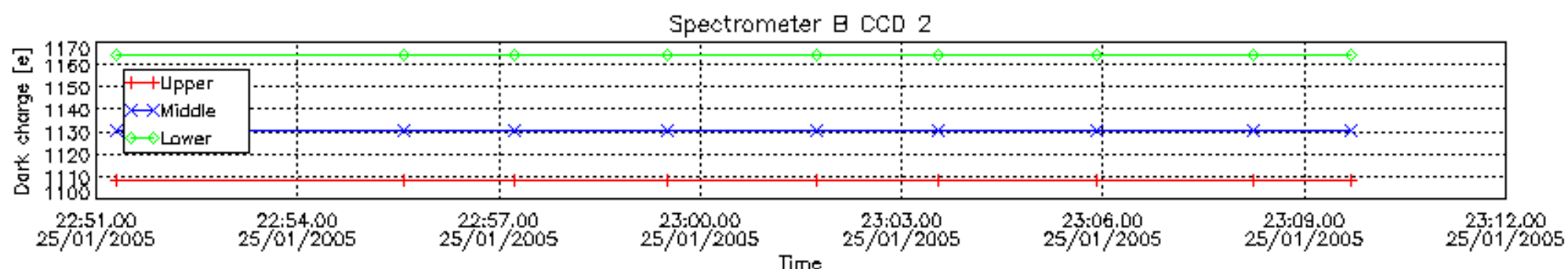
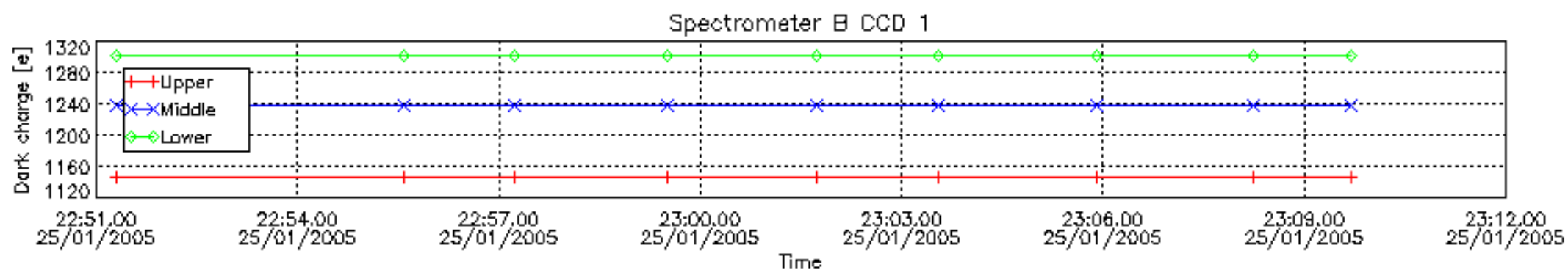
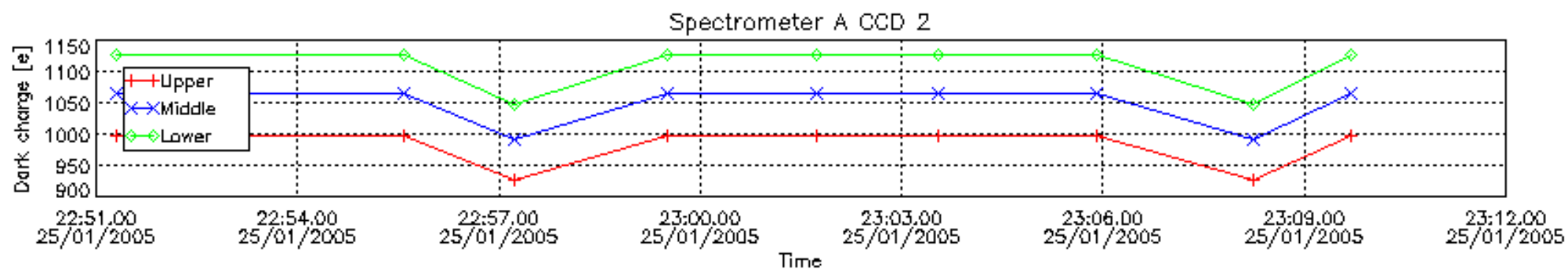
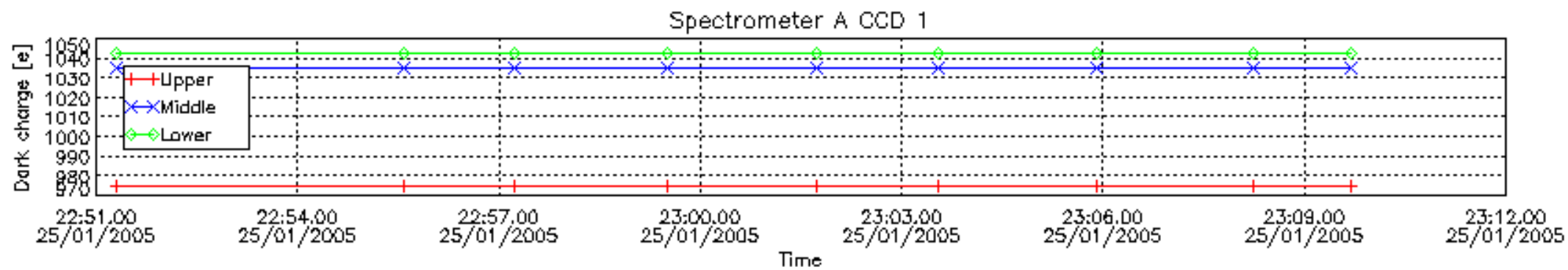
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.9	1446.2	1461.5	1446.6
St. deviation:	5.1923	6.4354	4.4161	5.9947
Maximum:	1498.0	1478.0	1505.0	1485.0
Minimum:	1451.0	1431.0	1439.0	1422.0
Number of data:	8900.0	8900.0	7600.0	7600.0

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

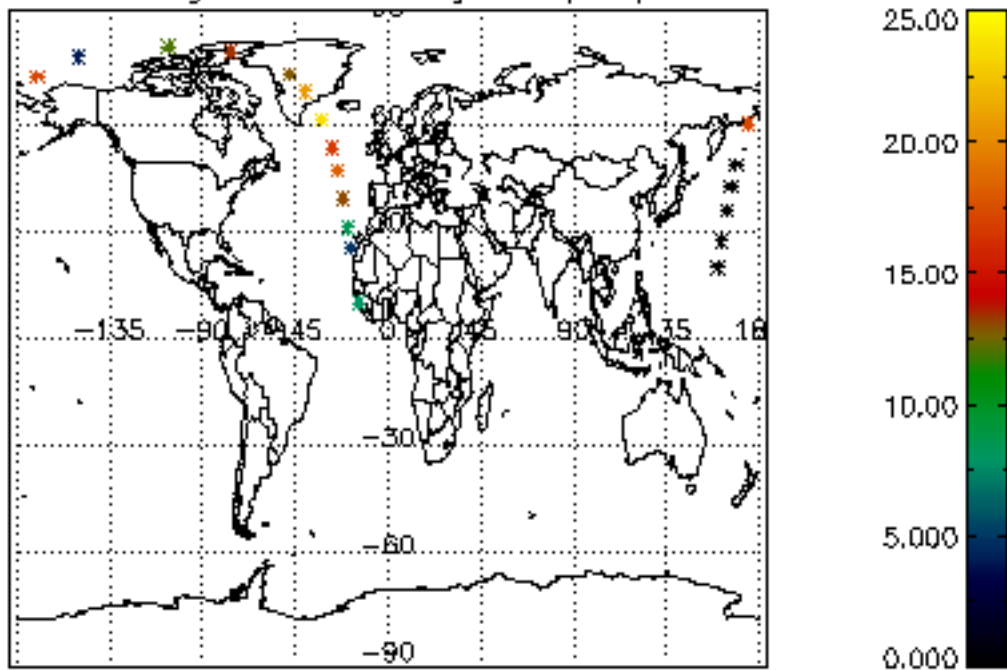
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	25-JAN-2005 22:51:17
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050117_132951_20050115_000000_20100101_000000	1	25-JAN-2005 22:51:17
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	25-JAN-2005 22:51:17
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-JAN-2005 22:51:17
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	25-JAN-2005 22:51:17
ECMWF_FILE	AUX_ECF_AXNECM20050125_060404_20050125_210000_20050126_090000	1	25-JAN-2005 22:51:17
OPTIONAL_ECMWF_FILE	NOT USED	1	25-JAN-2005 22:51:17
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050125_224334_20050125_192718_20050204_205332	1	25-JAN-2005 22:51:17

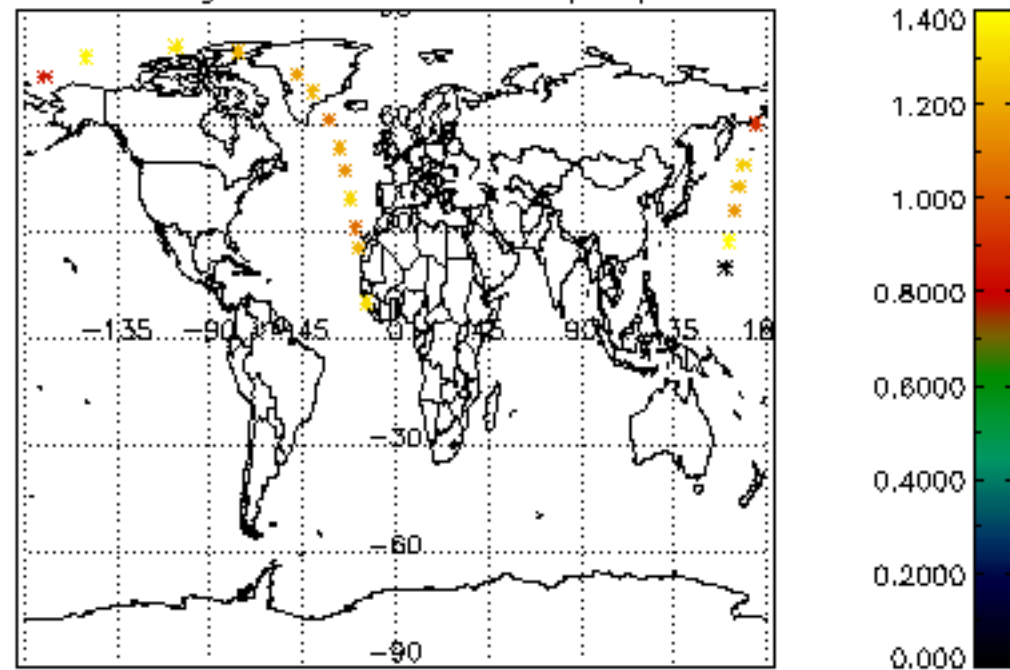




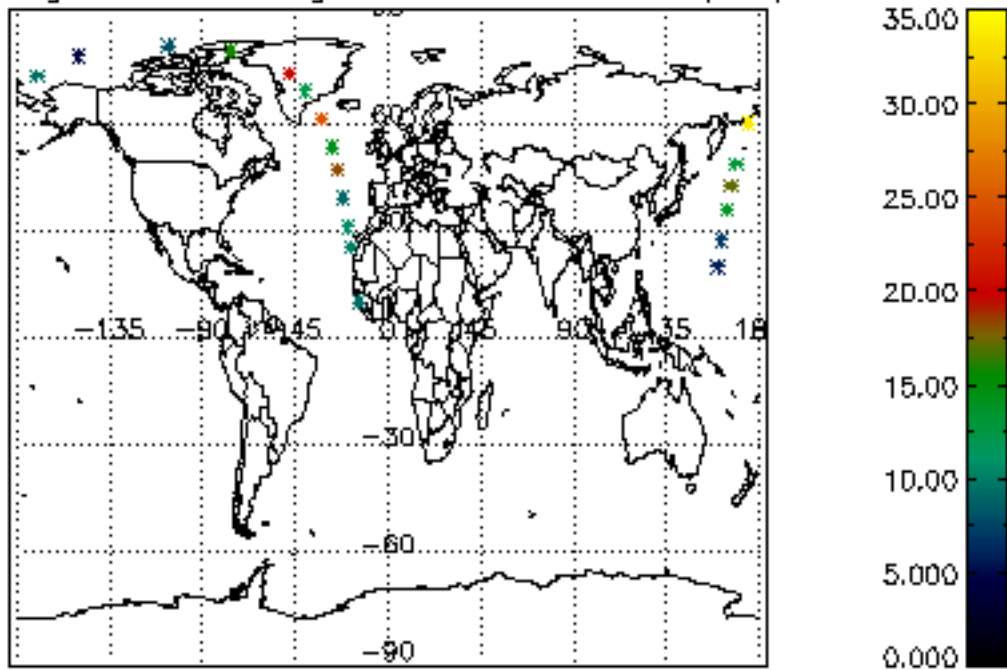
Percentage of cosmic ray hits per profile



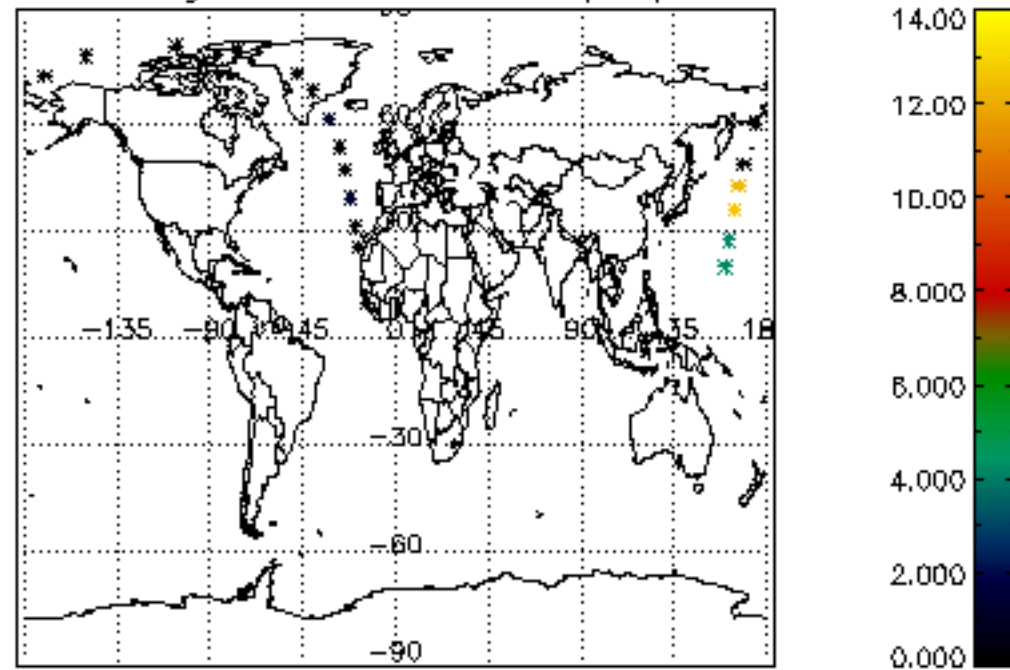
Percentage of datation errors per profile



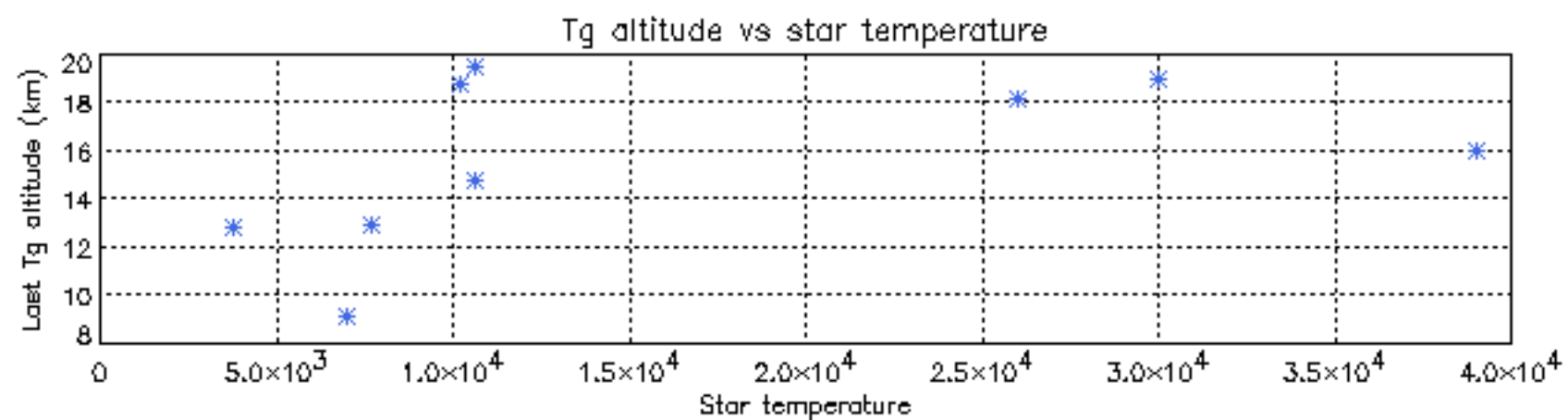
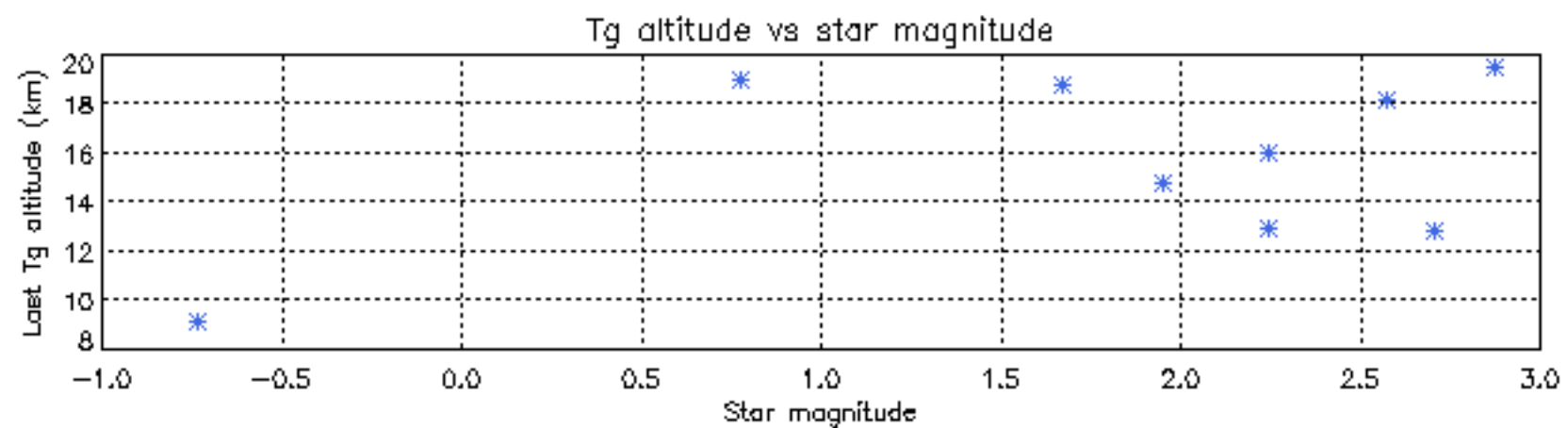
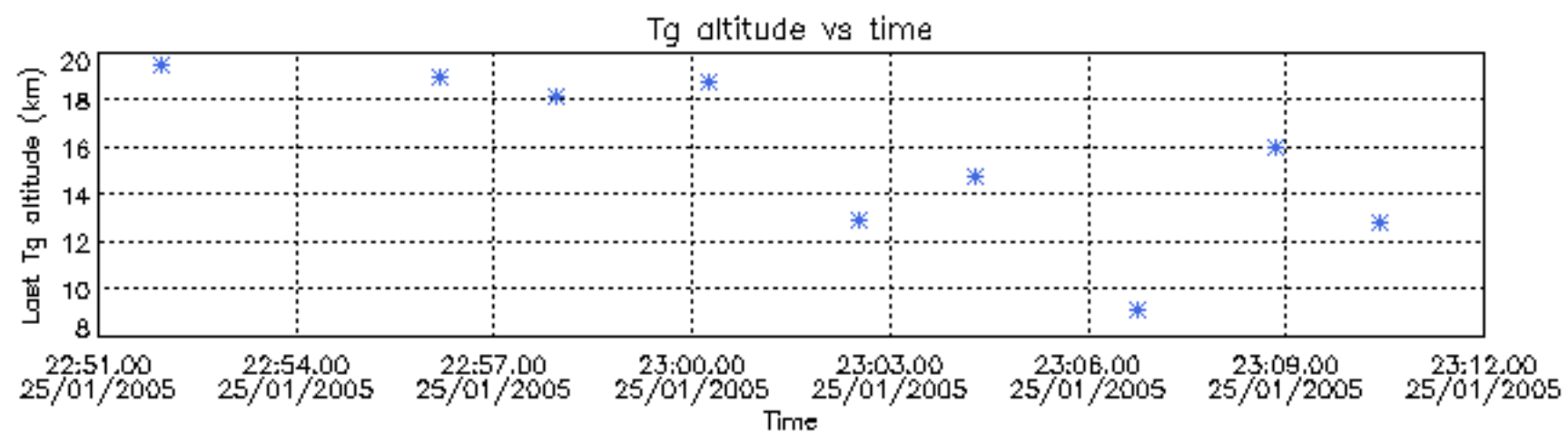
Percentage of star falling outside central band per profile



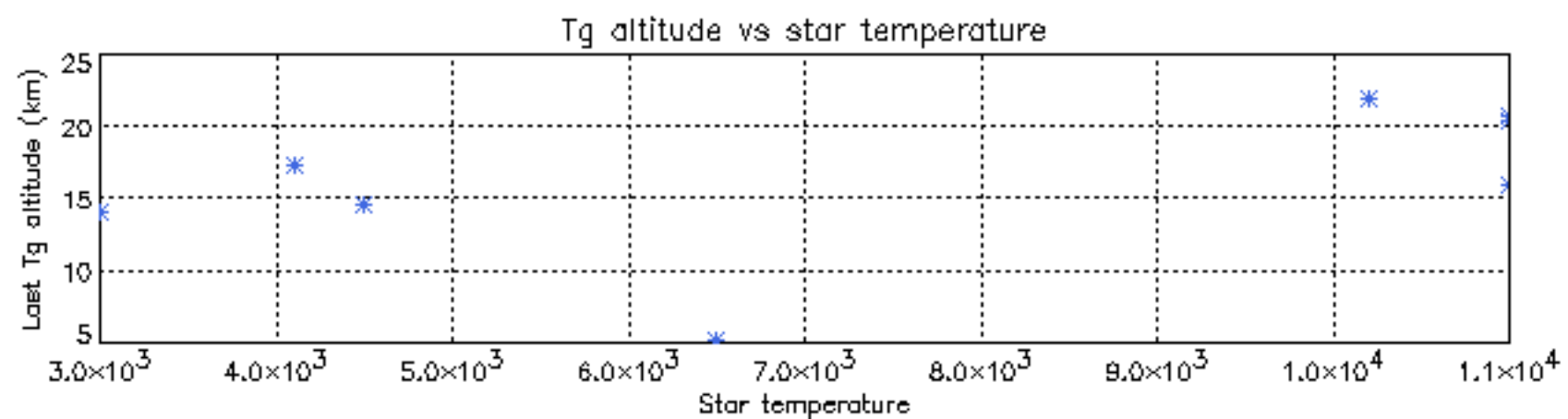
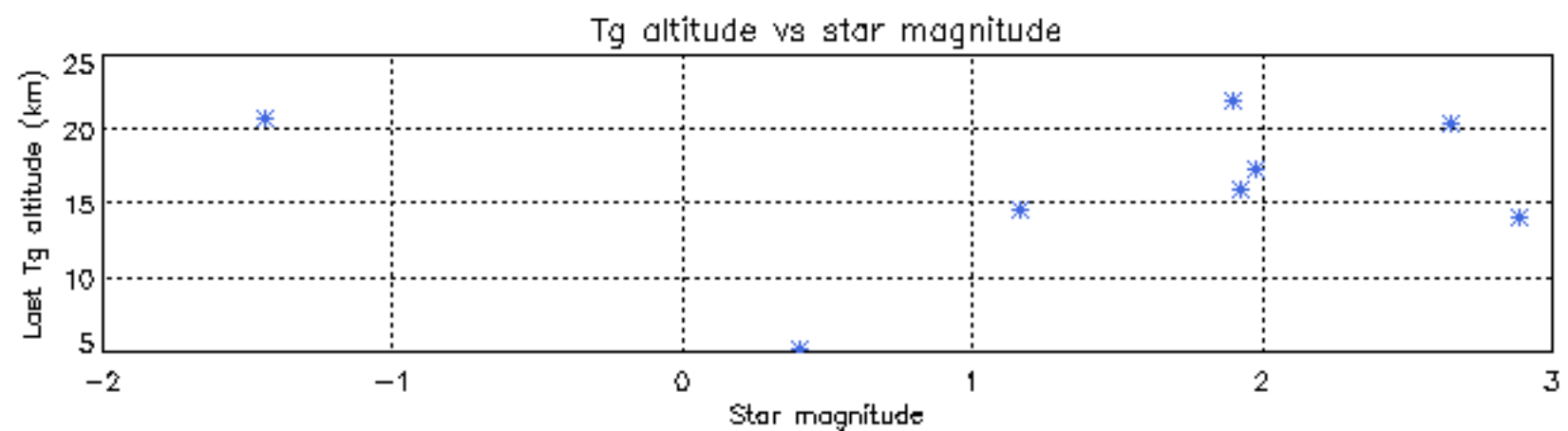
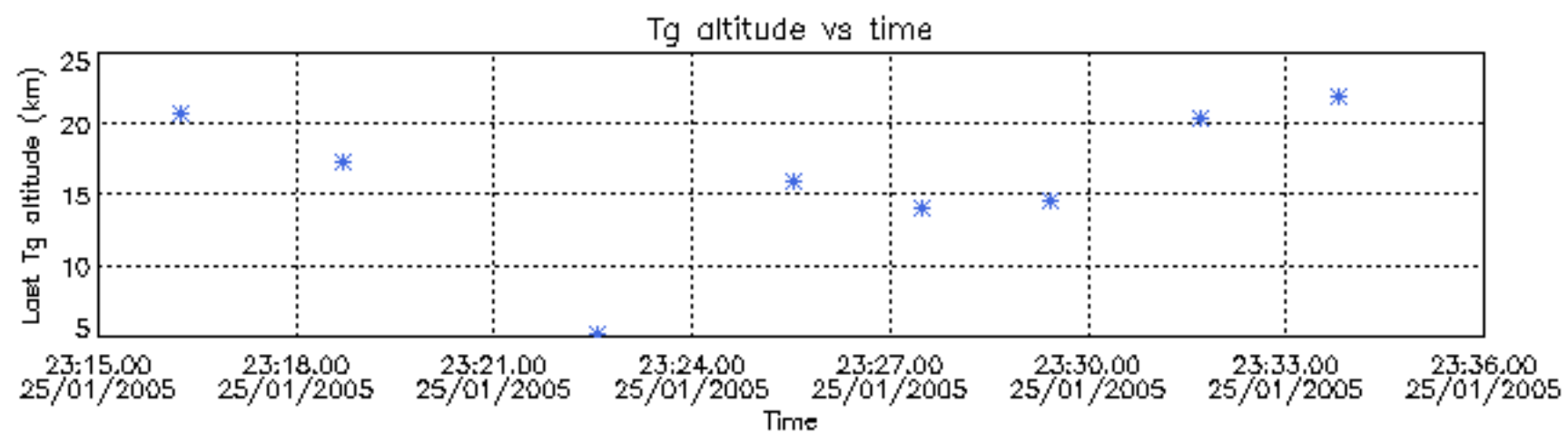
Percentage of saturation errors per profile



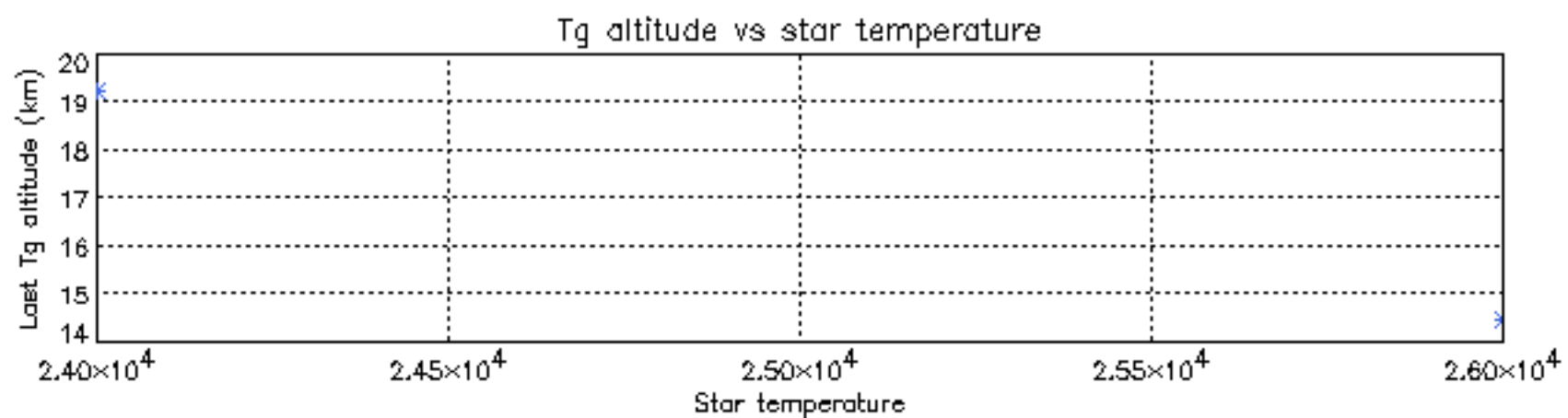
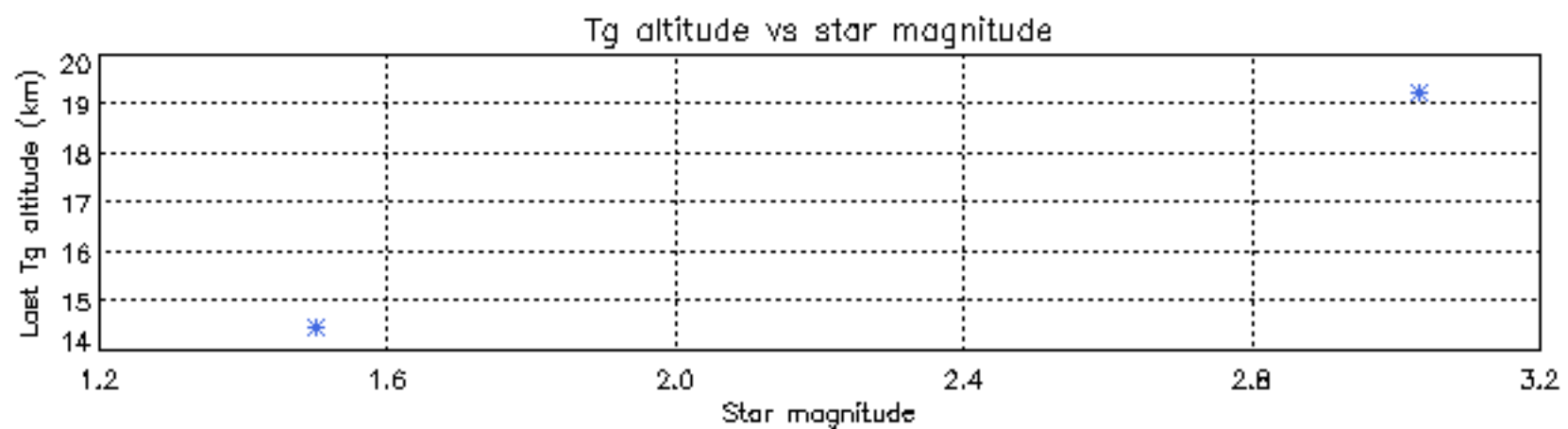
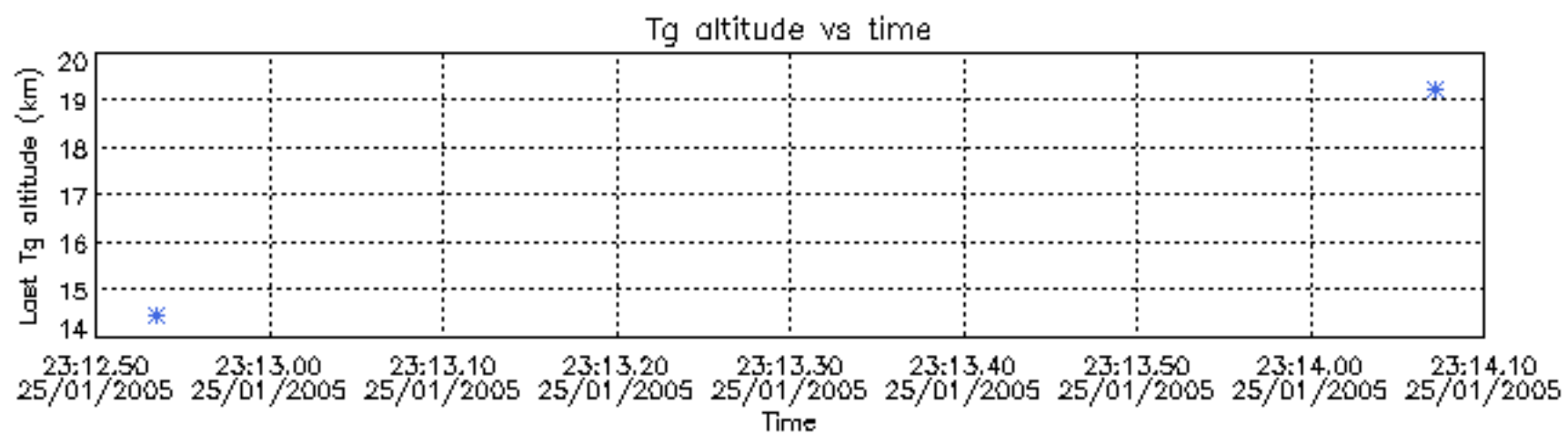
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20050101_000317_000059232033_00259_14842_1596.N1

1; -683.2; 01-JAN-2005 00:03:17; Dark ; 45.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 91; 0;14842
 2; -474.4; 01-JAN-2005 00:06:46; Dark ; 69.0; 15; 67Alp Vir ; 0.98; 28000;occ; 138; 0;14842
 3; -192.1; 01-JAN-2005 00:11:28; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;14842
 4; -105.7; 01-JAN-2005 00:12:55; Dark ; 45.0; 95; Zet Cen ; 2.55; 26000;occ; 90; 0;14842
 5; -2.3; 01-JAN-2005 00:14:38; Dark ; 45.0; 4; Alp1Cen ;-0.01; 5800;occ; 90; 0;14842
 6; 106.9; 01-JAN-2005 00:16:27; Dark ; 47.0; 64; Gam Cen ; 2.20; 10600;occ; 94; 0;14843
 7; 227.0; 01-JAN-2005 00:18:28; Dark ; 55.0; 12; Alp1Cru ; 0.77; 30000;occ; 110; 0;14843
 8; 400.9; 01-JAN-2005 00:21:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14843
 9; 547.0; 01-JAN-2005 00:23:48; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;14843
 10; 628.2; 01-JAN-2005 00:25:09; Dark ; 51.5; 71; Iot Car ; 2.25; 7700;occ; 103; 0;14843
 11; 725.4; 01-JAN-2005 00:26:46; Dark ; 55.0; 41; Eps Car ; 1.86; 4100;occ; 110; 0;14843
 12; 846.1; 01-JAN-2005 00:28:47; Dark ; 56.5; 65; Lam Vel ; 2.20; 4400;occ; 113; 0;14843
 13; 977.2; 01-JAN-2005 00:30:58; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;14843
 14; 1171.4; 01-JAN-2005 00:34:12; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;14843
 15; 1339.3; 01-JAN-2005 00:37:00; Dark ; 50.5; 23; 21Eps CMa ; 1.50; 26000;occ; 101; 0;14843
 16; 1432.6; 01-JAN-2005 00:38:33; Dark ; 46.5; 179; 240mi2CMA ; 3.03; 24000;occ; 93; 0;14843
 17; 1579.6; 01-JAN-2005 00:41:00; Dark ; 55.5; 1; 9Alp CMa ;-1.44; 11000;occ; 111; 0;14843
 18; 1768.2; 01-JAN-2005 00:44:09; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;14843
 19; 1879.6; 01-JAN-2005 00:46:00; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;14843
 20; 2091.3; 01-JAN-2005 00:49:32; Dark ; 83.0; 8; 10Alp CMI ; 0.40; 6500;occ; 166; 0;14843
 21; 2226.9; 01-JAN-2005 00:51:47; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;14843
 22; 2323.7; 01-JAN-2005 00:53:24; Bright; 48.0; 151; 13Mu Gem ; 2.89; 3000;occ; 96; 0;14843
 23; 2470.5; 01-JAN-2005 00:55:51; Bright; 39.0; 114; 3Iot Aur ; 2.69; 4600;occ; 78; 0;14843
 24; 2562.0; 01-JAN-2005 00:57:23; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;14843
 25; 2690.9; 01-JAN-2005 00:59:32; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;14843
 26; 2799.5; 01-JAN-2005 01:01:20; Bright; 38.0; 35; 33Alp Per ; 1.79; 6250;occ; 76; 0;14843
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6; -75.7; 04-JAN-2005 00:19:09; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;14885
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9; 413.5; 04-JAN-2005 00:27:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14886
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27; 2812.9; 04-JAN-2005 01:07:18; Bright; 37.5; 35; 33Alp Per ; 1.79; 6250;occ; 75; 0;14886
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31; 3684.1; 04-JAN-2005 01:21:49; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;14886
32; 3805.7; 04-JAN-2005 01:23:51; Bright; 55.5; 87; 64Gam UMa ; 2.43; 11000;occ; 111; 0;14886
33; 3953.7; 04-JAN-2005 01:26:18; Bright; 68.0; 55; 79Zet UMa ; 2.06; 10200;occ; 136; 0;14886
34; 4096.6; 04-JAN-2005 01:28:41; Bright; 46.5; 39; 85Eta UMa ; 1.85; 24000;occ; 93; 0;14886
35; 4331.7; 04-JAN-2005 01:32:37; Bright; 66.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 133; 0;14886
36; 4582.7; 04-JAN-2005 01:36:48; Bright; 47.0; 83; ; 2.38; 11000;occ; 94; 0;14886
37; 4791.3; 04-JAN-2005 01:40:16; Bright; 59.5; 3; 16Alp Boo ; -0.05; 4250;occ; 119; 0;14886
38; 4903.3; 04-JAN-2005 01:42:08; Bright; 40.0; 102; 24Alp Ser ; 2.60; 4250;occ; 80; 0;14886
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 19; 2067.0; 04-JAN-2005 02:35:28; Dark ; 74.5; 8; 10Alp CMi ; 0.40; 6500;occ; 149; 0;14887
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 27; 3420.9; 04-JAN-2005 02:58:02; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;14887

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 22; 877.4; 04-JAN-2005 03:56:14; Dark ; 55.5; 65; Lam Vel ; 2.20; 4400;occ; 111; 0;14888
 23; 987.0; 04-JAN-2005 03:58:04; Dark ; 47.0; 2; Alp Car ;-0.74; 7000;occ; 94; 0;14888
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 27; 1583.6; 04-JAN-2005 04:08:00; Dark ; 54.5; 1; 9Alp CMA ;-1.44; 11000;occ; 109; 0;14888
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 38; 3421.0; 04-JAN-2005 04:38:38; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;14888
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4;	-2083.3;	04-JAN-2005	04:47:29;	Bright;	46.5;	55;	79Zet UMA	; 2.06;	10200;occ;	93;	0;	14888
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7;	-1452.4;	04-JAN-2005	04:58:00;	Bright;	45.5;	83;		; 2.38;	11000;occ;	91;	0;	14888
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9;	-1131.9;	04-JAN-2005	05:03:21;	Bright;	47.5;	102;	24Alp Ser	; 2.60;	4250;occ;	95;	0;	14888
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11;	-820.3;	04-JAN-2005	05:08:32;	Bright;	42.0;	104;	27Bet Lib	; 2.61;	13100;occ;	84;	0;	14888
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13;	-404.3;	04-JAN-2005	05:15:28;	Dark	; 76.5;	15;	67Alp Vir	; 0.98;	28000;occ;	153;	0;	14888
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16;	-73.3;	04-JAN-2005	05:20:59;	Dark	; 42.0;	95;	Zet Cen	; 2.55;	26000;occ;	84;	0;	14888
17;	13.7;	04-JAN-2005	05:22:26;	Dark	; 53.0;	4;	Alp1Cen	; -0.01;	5800;occ;	106;	0;	14889
18;	192.6;	04-JAN-2005	05:25:25;	Dark	; 50.5;	20;	Bet Cru	; 1.25;	30000;occ;	101;	0;	14889
19;	414.3;	04-JAN-2005	05:29:07;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	14889
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21;	655.5;	04-JAN-2005	05:33:08;	Dark	; 40.5;	71;	Iot Car	; 2.25;	7700;occ;	81;	0;	14889
22;	745.7;	04-JAN-2005	05:34:38;	Dark	; 53.0;	41;	Eps Car	; 1.86;	4100;occ;	106;	0;	14889
23;	878.7;	04-JAN-2005	05:36:51;	Dark	; 53.5;	65;	Lam Vel	; 2.20;	4400;occ;	107;	0;	14889
24;	989.5;	04-JAN-2005	05:38:42;	Dark	; 49.5;	2;	Alp Car	; -0.74;	7000;occ;	99;	0;	14889
25;	1188.7;	04-JAN-2005	05:42:01;	Dark	; 49.0;	117;	Pi Pup	; 2.71;	3800;occ;	98;	0;	14889
26;	1351.5;	04-JAN-2005	05:44:44;	Dark	; 46.0;	23;	21Eps CMa	; 1.50;	26000;occ;	92;	0;	14889
27;	1442.9;	04-JAN-2005	05:46:16;	Dark	; 45.5;	179;	24Omi2CMa	; 3.03;	24000;occ;	91;	0;	14889
28;	1586.0;	04-JAN-2005	05:48:39;	Dark	; 57.0;	1;	9Alp CMa	; -1.44;	11000;occ;	114;	0;	14889
29;	1774.8;	04-JAN-2005	05:51:47;	Dark	; 45.0;	7;	19Bet Ori	; 0.10;	14000;occ;	90;	0;	14889
30;	1883.8;	04-JAN-2005	05:53:36;	Dark	; 43.5;	30;	46Eps Ori	; 1.69;	30000;occ;	87;	0;	14889
31;	2065.2;	04-JAN-2005	05:56:38;	Dark	; 65.0;	8;	10Alp CMi	; 0.40;	6500;occ;	130;	0;	14889
32;	2212.5;	04-JAN-2005	05:59:05;	Dark	; 50.5;	44;	24Gam Gem	; 1.93;	11000;occ;	101;	0;	14889
33;	2311.4;	04-JAN-2005	06:00:44;	Bright;	49.0;	151;	13Mu Gem	; 2.89;	3000;occ;	98;	0;	14889
34;	2473.4;	04-JAN-2005	06:03:26;	Bright;	39.5;	114;	3Iot Aur	; 2.69;	4600;occ;	79;	0;	14889
35;	2554.8;	04-JAN-2005	06:04:47;	Bright;	38.5;	107;	37The Aur	; 2.65;	11000;occ;	77;	0;	14889
36;	2687.7;	04-JAN-2005	06:07:00;	Bright;	44.5;	6;	13Alp Aur	; 0.08;	3400;occ;	89;	0;	14889
37;	2814.3;	04-JAN-2005	06:09:07;	Bright;	37.5;	35;	33Alp Per	; 1.79;	6250;occ;	75;	0;	14889
38;	2892.7;	04-JAN-2005	06:10:25;	Bright;	38.5;	160;	23Gam Per	; 2.93;	4700;occ;	77;	0;	14889
39;	3421.1;	04-JAN-2005	06:19:14;	Bright;	38.5;	49;	1Alp UMi	; 1.99;	6300;occ;	77;	0;	14889
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3;	-2083.3;	04-JAN-2005	06:28:05;	Bright;	48.5;	55;	79Zet UMA	; 2.06;	10200;occ;	97;	0;	14889
4;	-1939.7;	04-JAN-2005	06:30:29;	Bright;	48.0;	39;	85Eta UMA	; 1.85;	24000;occ;	96;	0;	14889
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1;	-2365.3;	12-JAN-2005	02:10:28;	Bright;	42.0;	60;	7Bet UMi	; 2.08;	3950;occ;	84;	6;	15001
2;	-2206.1;	12-JAN-2005	02:13:08;	Bright;	53.5;	32;	77Eps UMa	; 1.76;	11000;occ;	107;	0;	15001
3;	-1965.5;	12-JAN-2005	02:17:08;	Bright;	36.5;	130;	23Bet Dra	; 2.80;	5800;occ;	73;	0;	15001
4;	-1785.9;	12-JAN-2005	02:20:08;	Bright;	39.0;	5;	3Alp Lyr	; 0.03;	11000;occ;	78;	0;	15001
5;	-1683.0;	12-JAN-2005	02:21:51;	Bright;	49.5;	180;	27Gam Boo	; 3.04;	8000;occ;	99;	0;	15001
6;	-1424.4;	12-JAN-2005	02:26:09;	Bright;	53.5;	83;		; 2.38;	11000;occ;	107;	0;	15001
7;	-1306.3;	12-JAN-2005	02:28:07;	Bright;	38.0;	59;	55Alp Oph	; 2.08;	8900;occ;	76;	0;	15001
8;	-1088.0;	12-JAN-2005	02:31:46;	Dark	; 89.0;	111;	8Eta Boo	; 2.68;	6000;occ;	178;	0;	15001
9;	-873.0;	12-JAN-2005	02:35:21;	Bright;	38.5;	98;	13Zet Oph	; 2.57;	30000;occ;	77;	0;	15001
10;	-752.5;	12-JAN-2005	02:37:21;	Dark	; 48.5;	104;	27Bet Lib	; 2.61;	13100;occ;	97;	0;	15001
11;	-606.8;	12-JAN-2005	02:39:47;	Dark	; 50.0;	16;	21Alp Sco	; 1.02;	3000;occ;	100;	0;	15001
12;	-298.4;	12-JAN-2005	02:44:55;	Dark	; 40.0;	131;	Gam Lup	; 2.80;	26000;occ;	80;	0;	15001
13;	-180.6;	12-JAN-2005	02:46:53;	Dark	; 97.5;	15;	67Alp Vir	; 0.98;	28000;occ;	195;	0;	15001
14;	257.1;	12-JAN-2005	02:54:11;	Dark	; 46.5;	20;	Bet Cru	; 1.25;	30000;occ;	93;	0;	15002
15;	363.0;	12-JAN-2005	02:55:57;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	15002
16;	511.0;	12-JAN-2005	02:58:25;	Dark	; 40.5;	124;	The Car	; 2.76;	30000;occ;	81;	0;	15002
17;	600.8;	12-JAN-2005	02:59:54;	Dark	; 47.0;	29;	Bet Car	; 1.67;	10200;occ;	94;	0;	15002
18;	710.1;	12-JAN-2005	03:01:44;	Dark	; 44.0;	71;	Iot Car	; 2.25;	7700;occ;	88;	0;	15002
19;	789.8;	12-JAN-2005	03:03:03;	Dark	; 54.0;	41;	Eps Car	; 1.86;	4100;occ;	108;	0;	15002
20;	1014.5;	12-JAN-2005	03:06:48;	Dark	; 47.0;	2;	Alp Car	; -0.74;	7000;occ;	94;	0;	15002
21;	1117.5;	12-JAN-2005	03:08:31;	Dark	; 47.0;	70;	Zet Pup	; 2.25;	39000;occ;	94;	0;	15002
22;	1222.2;	12-JAN-2005	03:10:16;	Dark	; 48.5;	117;	Pi Pup	; 2.71;	3800;occ;	97;	0;	15002
23;	1376.3;	12-JAN-2005	03:12:50;	Dark	; 49.0;	23;	21Eps CMa	; 1.50;	26000;occ;	98;	0;	15002
24;	1464.5;	12-JAN-2005	03:14:18;	Dark	; 43.0;	179;	240mi2CMa	; 3.03;	24000;occ;	86;	0;	15002
25;	1600.1;	12-JAN-2005	03:16:34;	Dark	; 48.0;	1;	9Alp CMa	; -1.44;	11000;occ;	96;	0;	15002
26;	1795.3;	12-JAN-2005	03:19:49;	Dark	; 43.0;	7;	19Bet Ori	; 0.10;	14000;occ;	86;	0;	15002
27;	1896.9;	12-JAN-2005	03:21:31;	Dark	; 43.0;	30;	46Eps Ori	; 1.69;	30000;occ;	86;	0;	15002
28;	2022.6;	12-JAN-2005	03:23:36;	Dark	; 62.0;	8;	10Alp CMi	; 0.40;	6500;occ;	124;	0;	15002
29;	2190.6;	12-JAN-2005	03:26:24;	Dark	; 44.0;	44;	24Gam Gem	; 1.93;	11000;occ;	88;	0;	15002
30;	2292.6;	12-JAN-2005	03:28:06;	Bright;	44.5;	151;	13Mu Gem	; 2.89;	3000;occ;	89;	0;	15002
31;	2396.8;	12-JAN-2005	03:29:50;	Bright;	39.5;	28;	12Bet Tau	; 1.65;	15200;occ;	79;	0;	15002
32;	2487.8;	12-JAN-2005	03:31:21;	Bright;	40.5;	114;	3Iot Aur	; 2.69;	4600;occ;	81;	0;	15002
33;	2672.5;	12-JAN-2005	03:34:26;	Bright;	37.5;	42;	34Bet Aur	; 1.90;	10200;occ;	75;	0;	15002
34;	2800.1;	12-JAN-2005	03:36:34;	Bright;	37.0;	175;	39Del Per	; 3.01;	19400;occ;	74;	0;	15002

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1;	-2365.4;	12-JAN-2005	05:31:40;	Bright;	41.5;	60;	7Bet UMi	; 2.08;	3950;occ;	83;	5;	15003
2;	-2206.9;	12-JAN-2005	05:34:19;	Bright;	51.5;	32;	77Eps UMa	; 1.76;	11000;occ;	103;	0;	15003
3;	-1965.7;	12-JAN-2005	05:38:20;	Bright;	35.5;	130;	23Bet Dra	; 2.80;	5800;occ;	71;	0;	15003
4;	-1783.9;	12-JAN-2005	05:41:22;	Bright;	36.5;	5;	3Alp Lyr	; 0.03;	11000;occ;	73;	0;	15003
5;	-1683.2;	12-JAN-2005	05:43:02;	Bright;	49.0;	180;	27Gam Boo	; 3.04;	8000;occ;	98;	0;	15003
6;	-1424.1;	12-JAN-2005	05:47:22;	Bright;	53.5;	83;		; 2.38;	11000;occ;	107;	0;	15003
7;	-1304.1;	12-JAN-2005	05:49:22;	Bright;	36.5;	59;	55Alp Oph	; 2.08;	8900;occ;	73;	0;	15003
8;	-1086.0;	12-JAN-2005	05:53:00;	Dark	; 80.0;	111;	8Eta Boo	; 2.68;	6000;occ;	160;	0;	15003
9;	-872.5;	12-JAN-2005	05:56:33;	Bright;	53.0;	98;	13Zet Oph	; 2.57;	30000;occ;	106;	0;	15003
10;	-751.2;	12-JAN-2005	05:58:34;	Dark	; 50.5;	104;	27Bet Lib	; 2.61;	13100;occ;	101;	0;	15003
11;	-606.2;	12-JAN-2005	06:00:59;	Dark	; 45.0;	16;	21Alp Sco	; 1.02;	3000;occ;	90;	0;	15003
12;	-297.5;	12-JAN-2005	06:06:08;	Dark	; 43.0;	131;	Gam Lup	; 2.80;	26000;occ;	86;	0;	15003
13;	-175.8;	12-JAN-2005	06:08:10;	Dark	; 93.0;	15;	67Alp Vir	; 0.98;	28000;occ;	186;	0;	15003
14;	261.1;	12-JAN-2005	06:15:27;	Dark	; 42.5;	20;	Bet Cru	; 1.25;	30000;occ;	85;	0;	15004
15;	364.7;	12-JAN-2005	06:17:10;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	15004
16;	512.9;	12-JAN-2005	06:19:39;	Dark	; 41.0;	124;	The Car	; 2.76;	30000;occ;	82;	0;	15004
17;	602.3;	12-JAN-2005	06:21:08;	Dark	; 39.0;	29;	Bet Car	; 1.67;	10200;occ;	78;	0;	15004
18;	711.8;	12-JAN-2005	06:22:57;	Dark	; 42.0;	71;	Iot Car	; 2.25;	7700;occ;	84;	0;	15004
19;	791.2;	12-JAN-2005	06:24:17;	Dark	; 50.0;	41;	Eps Car	; 1.86;	4100;occ;	100;	0;	15004
20;	1014.8;	12-JAN-2005	06:28:00;	Dark	; 43.5;	2;	Alp Car	; -0.74;	7000;occ;	87;	0;	15004
21;	1118.9;	12-JAN-2005	06:29:45;	Dark	; 45.5;	70;	Zet Pup	; 2.25;	39000;occ;	91;	0;	15004
22;	1223.8;	12-JAN-2005	06:31:29;	Dark	; 45.0;	117;	Pi Pup	; 2.71;	3800;occ;	90;	0;	15004
23;	1379.5;	12-JAN-2005	06:34:05;	Dark	; 48.0;	23;	21Eps CMa	; 1.50;	26000;occ;	96;	0;	15004
24;	1465.4;	12-JAN-2005	06:35:31;	Dark	; 42.5;	179;	240mi2CMa	; 3.03;	24000;occ;	85;	0;	15004
25;	1601.4;	12-JAN-2005	06:37:47;	Dark	; 47.0;	1;	9Alp CMa	; -1.44;	11000;occ;	94;	0;	15004
26;	1795.3;	12-JAN-2005	06:41:01;	Dark	; 52.0;	7;	19Bet Ori	; 0.10;	14000;occ;	104;	0;	15004
27;	1896.9;	12-JAN-2005	06:42:43;	Dark	; 41.5;	30;	46Eps Ori	; 1.69;	30000;occ;	83;	0;	15004
28;	2022.0;	12-JAN-2005	06:44:48;	Dark	; 62.5;	8;	10Alp CMi	; 0.40;	6500;occ;	125;	0;	15004
29;	2191.3;	12-JAN-2005	06:47:37;	Dark	; 46.5;	44;	24Gam Gem	; 1.93;	11000;occ;	93;	0;	15004
30;	2293.0;	12-JAN-2005	06:49:19;	Bright;	45.0;	151;	13Mu Gem	; 2.89;	3000;occ;	90;	0;	15004
31;	2398.1;	12-JAN-2005	06:51:04;	Bright;	39.0;	28;	12Bet Tau	; 1.65;	15200;occ;	78;	0;	15004
32;	2488.8;	12-JAN-2005	06:52:34;	Bright;	39.5;	114;	3Iot Aur	; 2.69;	4600;occ;	79;	0;	15004

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33; 2672.4; 12-JAN-2005 06:55:38; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;15004
34; 2800.0; 12-JAN-2005 06:57:46; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;15004
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5;-1682.9; 12-JAN-2005 07:23:39; Bright; 49.0; 180; 27Gam Boo ; 3.04; 8000;occ; 98; 0;15004
6;-1423.5; 12-JAN-2005 07:27:58; Bright; 53.5; 83; ; 2.38; 11000;occ; 107; 0;15004
7;-1084.9; 12-JAN-2005 07:33:37; Dark ; 82.0; 111; 8Eta Boo ; 2.68; 6000;occ; 164; 0;15004
8; -872.8; 12-JAN-2005 07:37:09; Bright; 39.5; 98; 13Zet Oph ; 2.57; 30000;occ; 79; 0;15004
9; -749.8; 12-JAN-2005 07:39:12; Dark ; 49.5; 104; 27Bet Lib ; 2.61; 13100;occ; 99; 0;15004
10; -605.9; 12-JAN-2005 07:41:36; Dark ; 46.5; 16; 21Alp Sco ; 1.02; 3000;occ; 93; 0;15004
11; -297.0; 12-JAN-2005 07:46:45; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;15004
12; -173.4; 12-JAN-2005 07:48:48; Dark ; 94.0; 15; 67Alp Vir ; 0.98; 28000;occ; 188; 0;15004
13; 261.6; 12-JAN-2005 07:56:03; Dark ; 43.5; 20; Bet Cru ; 1.25; 30000;occ; 87; 0;15005
14; 365.7; 12-JAN-2005 07:57:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;15005
15; 513.1; 12-JAN-2005 08:00:15; Dark ; 41.0; 124; The Car ; 2.76; 30000;occ; 82; 0;15005
16; 602.7; 12-JAN-2005 08:01:44; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;15005
17; 712.4; 12-JAN-2005 08:03:34; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;15005
18; 791.6; 12-JAN-2005 08:04:53; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;15005
19; 1014.6; 12-JAN-2005 08:08:36; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;15005
20; 1120.1; 12-JAN-2005 08:10:22; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;15005
21; 1224.1; 12-JAN-2005 08:12:06; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;15005
22; 1379.9; 12-JAN-2005 08:14:42; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;15005
23; 1465.7; 12-JAN-2005 08:16:07; Dark ; 41.0; 179; 240mi2CMA ; 3.03; 24000;occ; 82; 0;15005
24; 1601.5; 12-JAN-2005 08:18:23; Dark ; 53.5; 1; 9Alp CMA ; -1.44; 11000;occ; 107; 0;15005
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2;-4138.9; 12-JAN-2005 08:23:19; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;15005
3;-4014.2; 12-JAN-2005 08:25:23; Dark ; 63.5; 8; 10Alp CMi ; 0.40; 6500;occ; 127; 0;15005
4;-3844.5; 12-JAN-2005 08:28:13; Dark ; 44.0; 44; 24Gam Gem ; 1.93; 11000;occ; 88; 0;15005
5;-3742.1; 12-JAN-2005 08:29:55; Bright; 46.5; 151; 13Mu Gem ; 2.89; 3000;occ; 93; 0;15005
6;-3637.7; 12-JAN-2005 08:31:40; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;15005
7;-3546.9; 12-JAN-2005 08:33:11; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79; 0;15005
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9;-3234.9; 12-JAN-2005 08:38:23; Bright; 38.5; 175; 39Del Per ; 3.01; 19400;occ; 77; 0;15005
10;-2613.3; 12-JAN-2005 08:48:44; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;15005
11;-2368.3; 12-JAN-2005 08:52:49; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;15005
12;-2208.4; 12-JAN-2005 08:55:29; Bright; 54.0; 32; 77Eps UMa ; 1.76; 11000;occ; 108; 0;15005
13;-1966.1; 12-JAN-2005 08:59:31; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;15005
14;-1782.7; 12-JAN-2005 09:02:35; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;15005
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23; -170.7; 12-JAN-2005 09:29:27; Dark ; 96.0; 15; 67Alp Vir ; 0.98; 28000;occ; 192; 0;15005
24; 10.8; 12-JAN-2005 09:32:28; Dark ; 43.5; 95; Zet Cen ; 2.55; 26000;occ; 87; 0;15006
25; 262.3; 12-JAN-2005 09:36:40; Dark ; 44.0; 20; Bet Cru ; 1.25; 30000;occ; 88; 0;15006
26; 366.6; 12-JAN-2005 09:38:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;15006
27; 513.5; 12-JAN-2005 09:40:51; Dark ; 41.0; 124; The Car ; 2.76; 30000;occ; 82; 0;15006
28; 602.9; 12-JAN-2005 09:42:20; Dark ; 47.0; 29; Bet Car ; 1.67; 10200;occ; 94; 0;15006
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32; 1120.1; 12-JAN-2005 09:50:58; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;15006
33; 1224.4; 12-JAN-2005 09:52:42; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;15006
34; 1379.5; 12-JAN-2005 09:55:17; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;15006
35; 1465.2; 12-JAN-2005 09:56:43; Dark ; 43.5; 179; 240mi2CMA ; 3.03; 24000;occ; 87; 0;15006
36; 1601.2; 12-JAN-2005 09:58:59; Dark ; 53.5; 1; 9Alp CMA ; -1.44; 11000;occ; 107; 0;15006
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3;-4013.9; 12-JAN-2005 10:06:00; Dark ; 59.0; 8; 10Alp CMi ; 0.40; 6500;occ; 118; 0;15006
4;-3844.8; 12-JAN-2005 10:08:49; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;15006
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9;-3234.3; 12-JAN-2005 10:18:59; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;15006
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11;-2368.0; 12-JAN-2005 10:33:25; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;15006
12;-2209.0; 12-JAN-2005 10:36:04; Bright; 50.5; 32; 77Eps UMa ; 1.76; 11000;occ; 101; 0;15006
13;-1965.0; 12-JAN-2005 10:40:08; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;15006
14;-1782.5; 12-JAN-2005 10:43:11; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;15006
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34;	2781.1;	20-JAN-2005	04:25:08;	Bright;	;	82.5;	166;	17Eps Leo	;	2.98;	6000;occ;	165;	0;	15117
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25; -73.9; 24-JAN-2005 11:34:41; Dark ; 44.0; 109; Bet Lup ; 2.68; 26000;occ; 88; 0;15178
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2; 261.3; 24-JAN-2005 13:20:52; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;15180
3; 412.5; 24-JAN-2005 13:23:23; Dark ; 45.0; 12; Alp1Cru ; 0.77; 30000;occ; 90; 0;15180
4; 505.9; 24-JAN-2005 13:24:57; Dark ; 47.5; 99; Del Cen ; 2.58; 26000;occ; 95; 0;15180
5; 654.2; 24-JAN-2005 13:27:25; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;15180
6; 785.8; 24-JAN-2005 13:29:37; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;15180
7; 894.2; 24-JAN-2005 13:31:25; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;15180
8; 1041.2; 24-JAN-2005 13:33:52; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;15180
9; 1176.0; 24-JAN-2005 13:36:07; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;15180
10; 1265.4; 24-JAN-2005 13:37:36; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0;15180
11; 1391.2; 24-JAN-2005 13:39:42; Dark ; 42.5; 88; 31Eta CMA ; 2.45; 20000;occ; 85; 0;15180
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