

GOMOS Daily Report 21-SEP-2004

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	22SEP2004 05:02:55
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START) (21SEP2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (22SEP2004 00:00:00)

Store outputs flag	0
Nb of level 1b prods	29
Nb of prods with errors	0

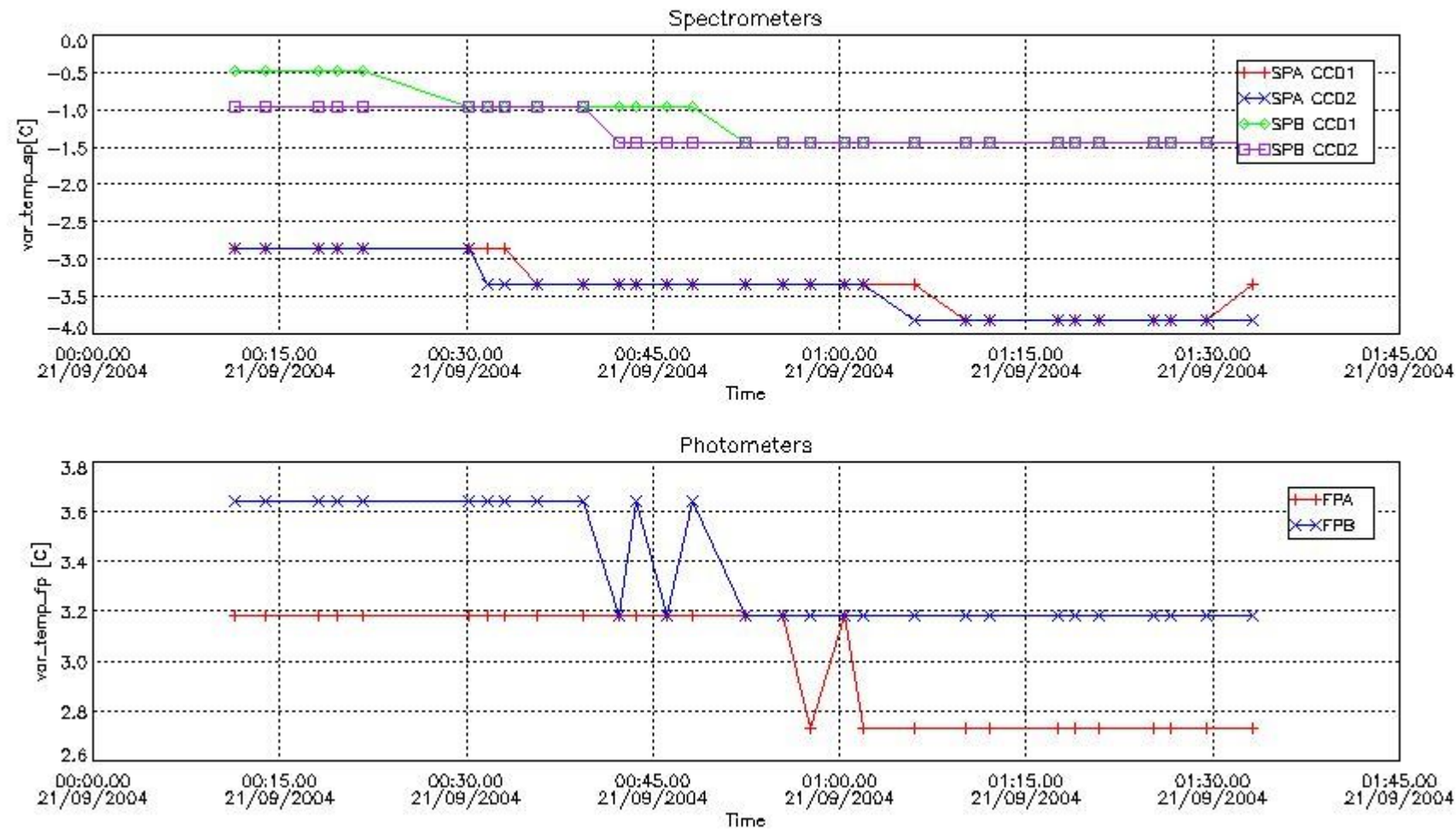
2. Summary of products arrived in PCF (Product Control Facility)

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

2.2 Summary of processed GOM_TRA_1P products

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20040921_001120_000000422030_00302_13382_0000.N1	21-SEP-2004 00:11:20	Dark	41.500	132	15Rho Pup	2.8030	6900.0	83	13382	No
GOM_TRA_1PNPDE20040921_001349_000000772030_00302_13382_0001.N1	21-SEP-2004 00:13:49	Dark	77.000	1	9Alp CMa	-1.4400	11000.	154	13382	No
GOM_TRA_1PNPDE20040921_001807_000000392030_00302_13382_0002.N1	21-SEP-2004 00:18:07	Dark	39.000	46	Del Vel	1.9540	10600.	78	13382	No
GOM_TRA_1PNPDE20040921_001940_000000422030_00302_13382_0003.N1	21-SEP-2004 00:19:40	Dark	42.000	41	Eps Car	1.8600	4100.0	84	13382	No
GOM_TRA_1PNPDE20040921_002138_000000572030_00303_13383_0004.N1	21-SEP-2004 00:21:38	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	13383	No
GOM_TRA_1PNPDE20040921_003011_000000402030_00303_13383_0005.N1	21-SEP-2004 00:30:11	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	13383	No
GOM_TRA_1PNPDE20040921_003139_000000432030_00303_13383_0006.N1	21-SEP-2004 00:31:39	Dark	42.500	143	Alp Hyi	2.8570	7200.0	85	13383	No
GOM_TRA_1PNPDE20040921_003307_000000472030_00303_13383_0007.N1	21-SEP-2004 00:33:07	Dark	47.000	9	Alp Eri	0.45300	24000.	94	13383	No
GOM_TRA_1PNPDE20040921_003540_000000412030_00303_13383_0008.N1	21-SEP-2004 00:35:40	Dark	41.000	148	Alp Tuc	2.8780	4100.0	82	13383	No
GOM_TRA_1PNPDE20040921_003926_000000442030_00303_13383_0009.N1	21-SEP-2004 00:39:26	Twilight	43.500	31	Alp Gru	1.7340	15200.	87	13383	No
GOM_TRA_1PNPDE20040921_004214_000000392030_00303_13383_0010.N1	21-SEP-2004 00:42:14	Bright	38.500	172	Gam Gru	3.0030	13100.	77	13383	No
GOM_TRA_1PNPDE20040921_004342_000000472030_00303_13383_0011.N1	21-SEP-2004 00:43:42	Bright	46.500	18	24Alp PsA	1.1660	9700.0	93	13383	No
GOM_TRA_1PNPDE20040921_004604_000000582030_00303_13383_0012.N1	21-SEP-2004 00:46:04	Bright	57.500	52	16Bet Cet	2.0370	4500.0	115	13383	No
GOM_TRA_1PNPDE20040921_004812_000000432030_00303_13383_0013.N1	21-SEP-2004 00:48:12	Bright	42.500	142	49Del Cap	2.8500	8900.0	85	13383	No
GOM_TRA_1PNPDE20040921_005222_000000402030_00303_13383_0014.N1	21-SEP-2004 00:52:22	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	13383	No
GOM_TRA_1PNPDE20040921_005524_000000412030_00303_13383_0015.N1	21-SEP-2004 00:55:24	Bright	40.500	61	8Eps Peg	2.1000	3900.0	81	13383	No
GOM_TRA_1PNPDE20040921_005735_000000472030_00303_13383_0016.N1	21-SEP-2004 00:57:35	Bright	47.000	140	88Gam Peg	2.8340	26000.	94	13383	No
GOM_TRA_1PNPDE20040921_010022_000000402030_00303_13383_0017.N1	21-SEP-2004 01:00:22	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	13383	No
GOM_TRA_1PNPDE20040921_010156_000000482030_00303_13383_0018.N1	21-SEP-2004 01:01:56	Bright	47.500	58	21Alp And	2.0730	11000.	95	13383	No
GOM_TRA_1PNPDE20040921_010558_000000402030_00303_13383_0019.N1	21-SEP-2004 01:05:58	Bright	40.000	19	50Alp Cyg	1.2460	10500.	80	13383	No
GOM_TRA_1PNPDE20040921_011004_000000402030_00303_13383_0020.N1	21-SEP-2004 01:10:04	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	13383	No
GOM_TRA_1PNPDE20040921_011201_000000432030_00303_13383_0021.N1	21-SEP-2004 01:12:01	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	13383	No
GOM_TRA_1PNPDE20040921_011736_000000382030_00303_13383_0022.N1	21-SEP-2004 01:17:36	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	13383	No
GOM_TRA_1PNPDE20040921_011858_000000402030_00303_13383_0023.N1	21-SEP-2004 01:18:58	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	13383	No
GOM_TRA_1PNPDE20040921_012054_000000692030_00303_13383_0024.N1	21-SEP-2004 01:20:54	Bright	69.000	175	39Del Per	3.0100	19400.	138	13383	No
GOM_TRA_1PNPDE20040921_012510_000000422030_00303_13383_0025.N1	21-SEP-2004 01:25:10	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	13383	No
GOM_TRA_1PNPDE20040921_012637_000000392030_00303_13383_0026.N1	21-SEP-2004 01:26:37	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	13383	No
GOM_TRA_1PNPDE20040921_012926_000000592030_00303_13383_0027.N1	21-SEP-2004 01:29:26	Bright	58.500	42	34Bet Aur	1.9000	10200.	117	13383	No
GOM_TRA_1PNPDE20040921_013313_000000712030_00303_13383_0028.N1	21-SEP-2004 01:33:13	Bright	70.500	107	37The Aur	2.6490	11000.	141	13383	No

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



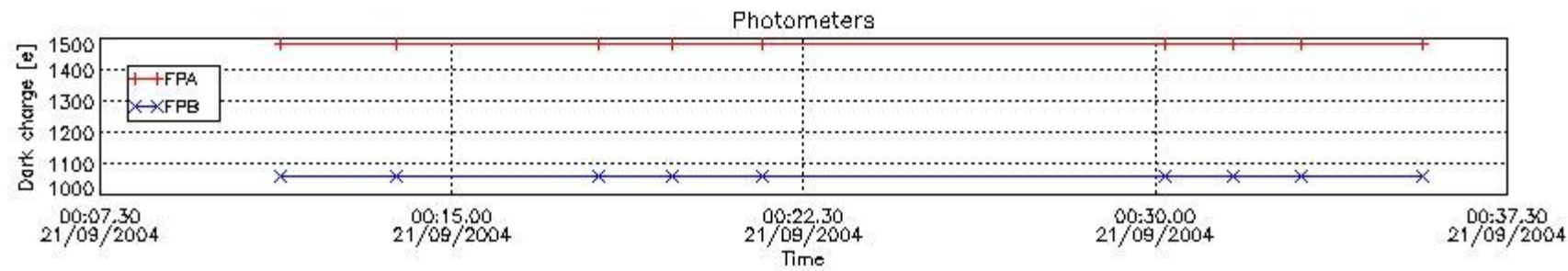
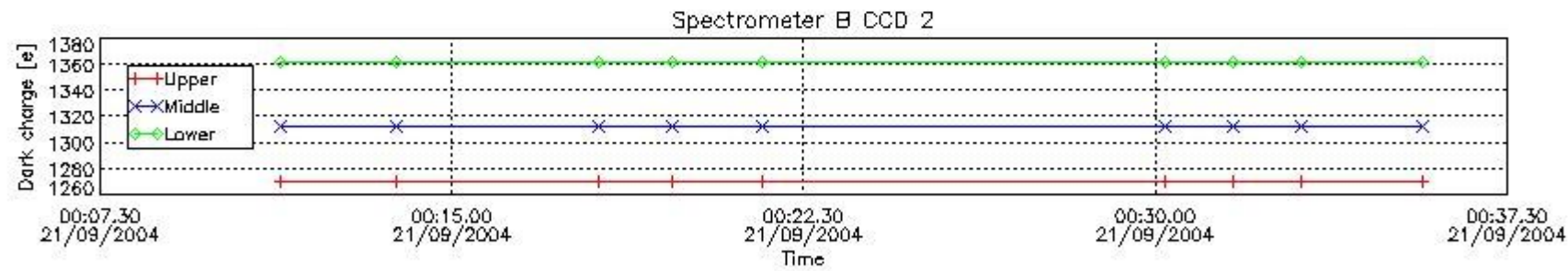
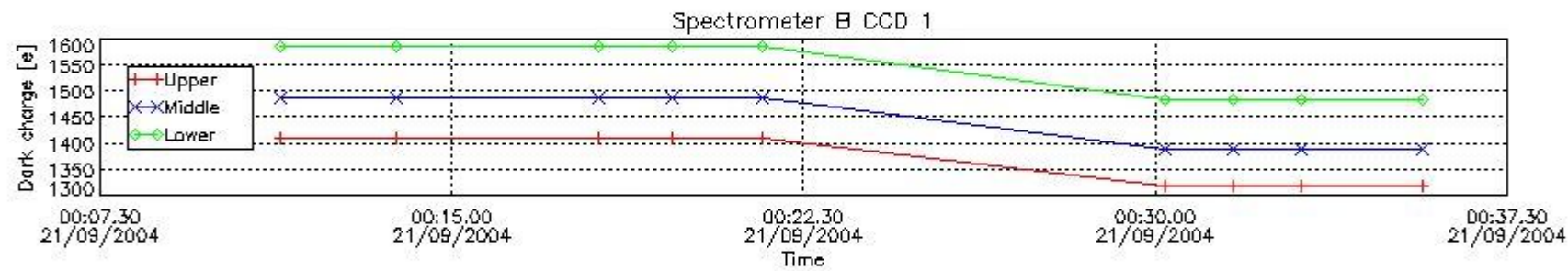
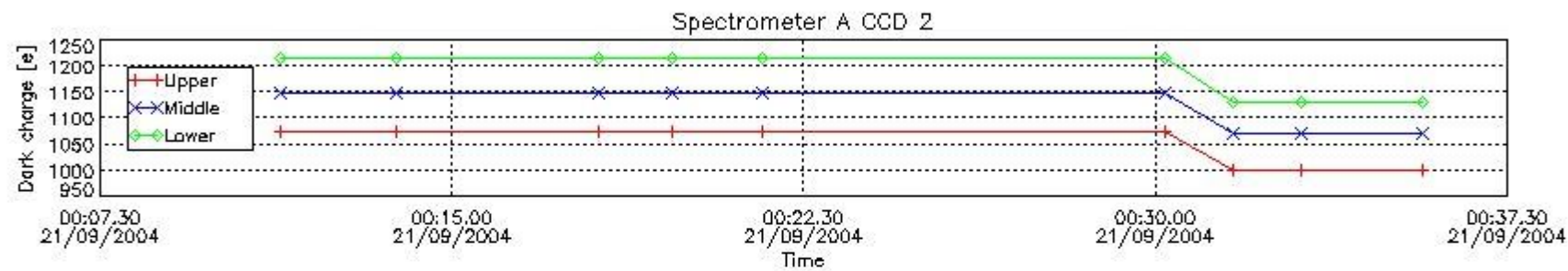
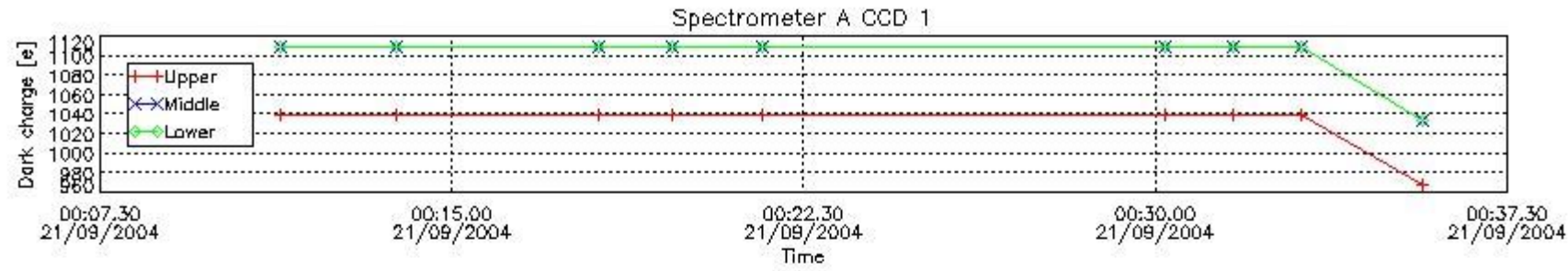
4. Overview of dark signal processing per product

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



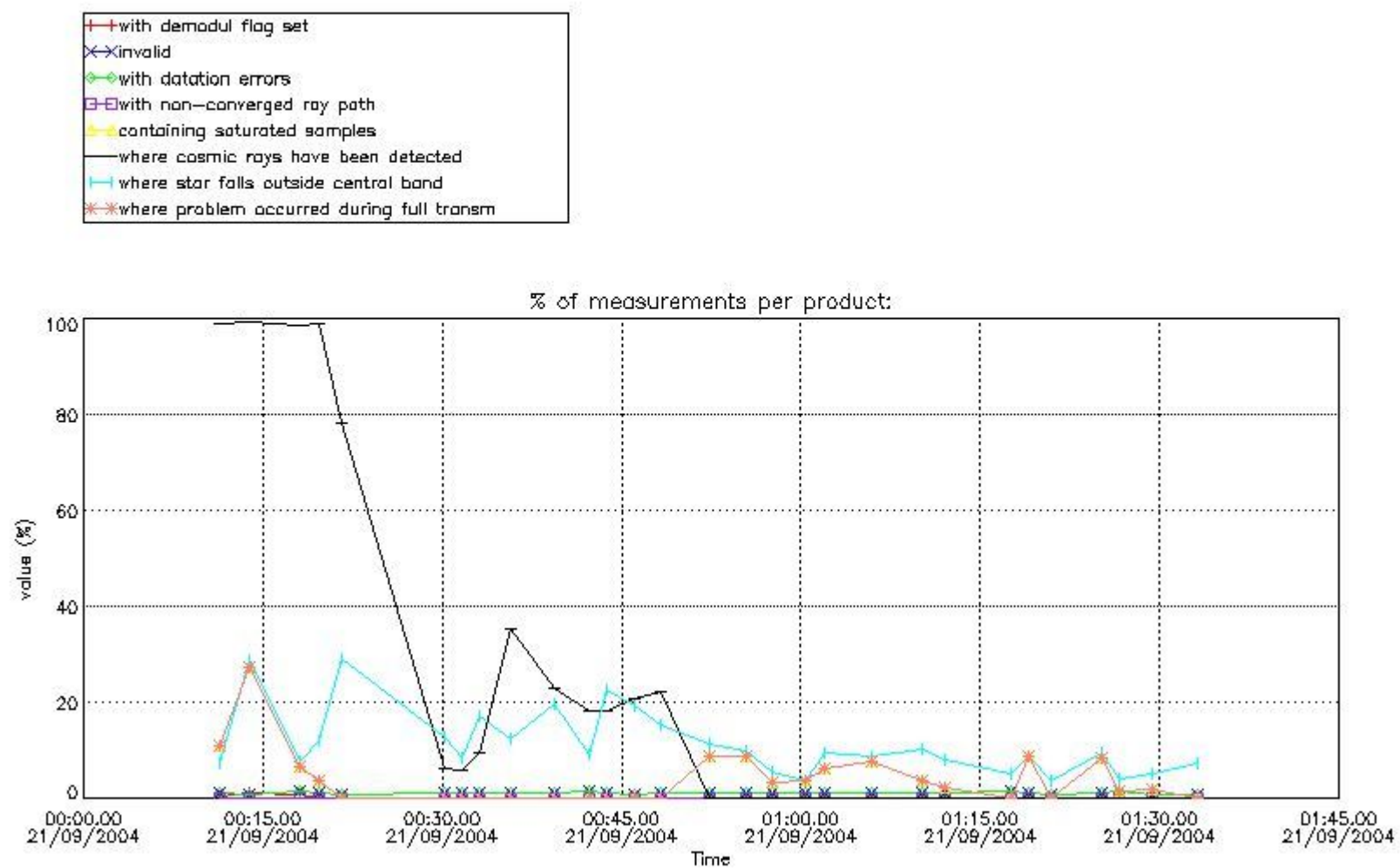
5. Demodulation flag and quality information monitoring

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.

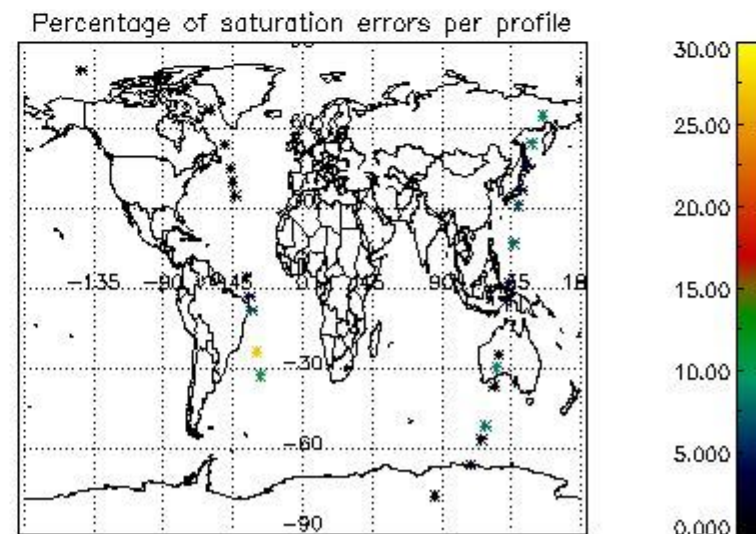
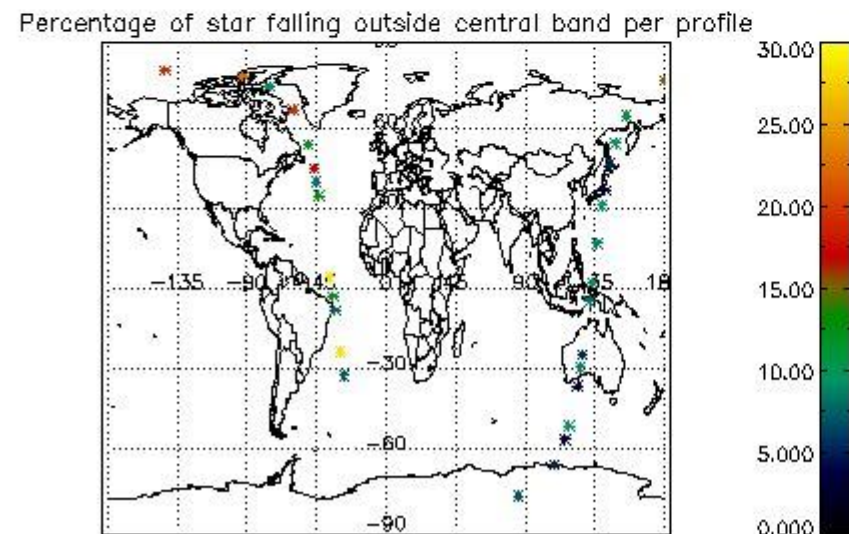
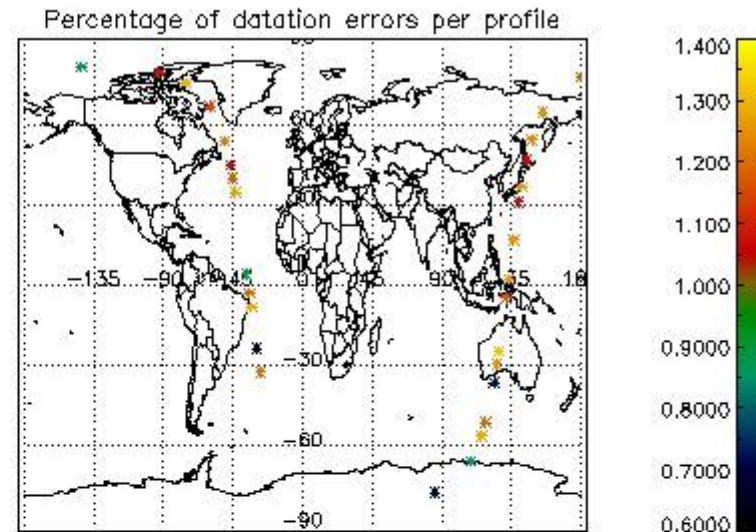
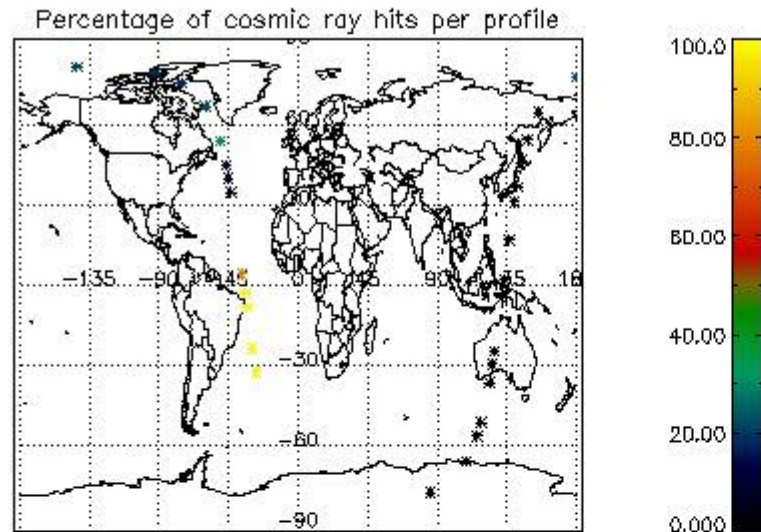
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	17.2414 %
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)



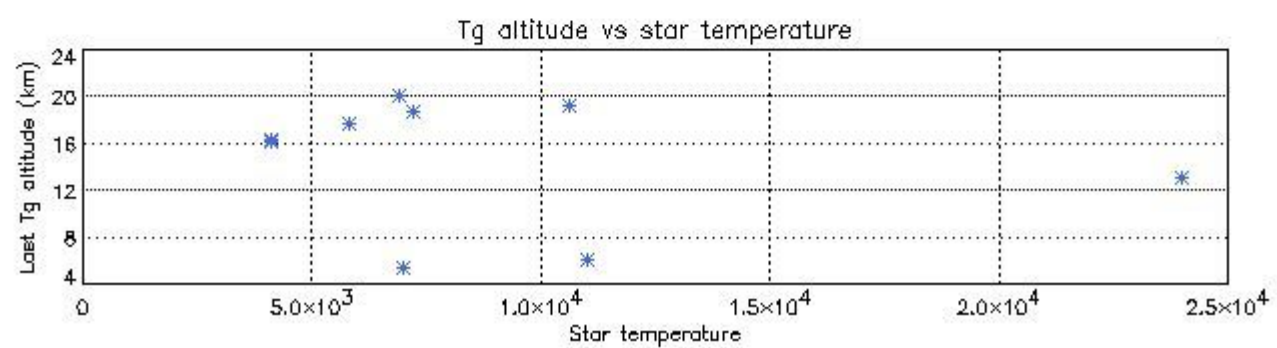
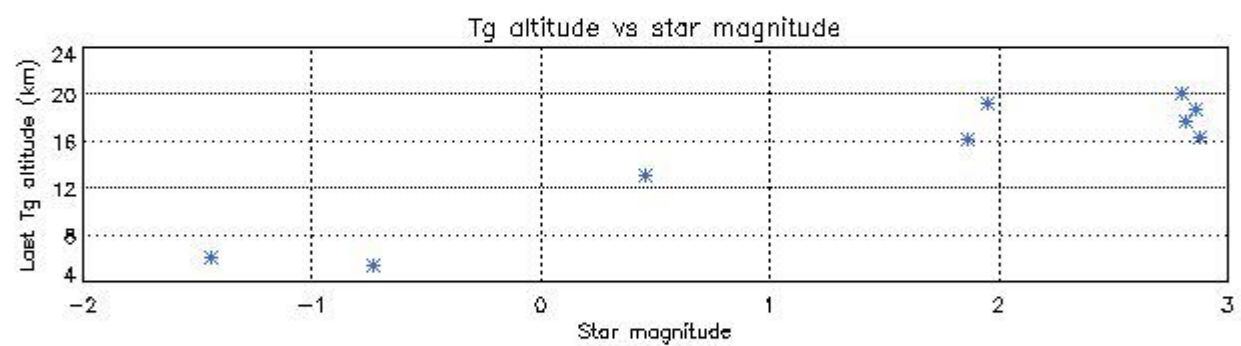
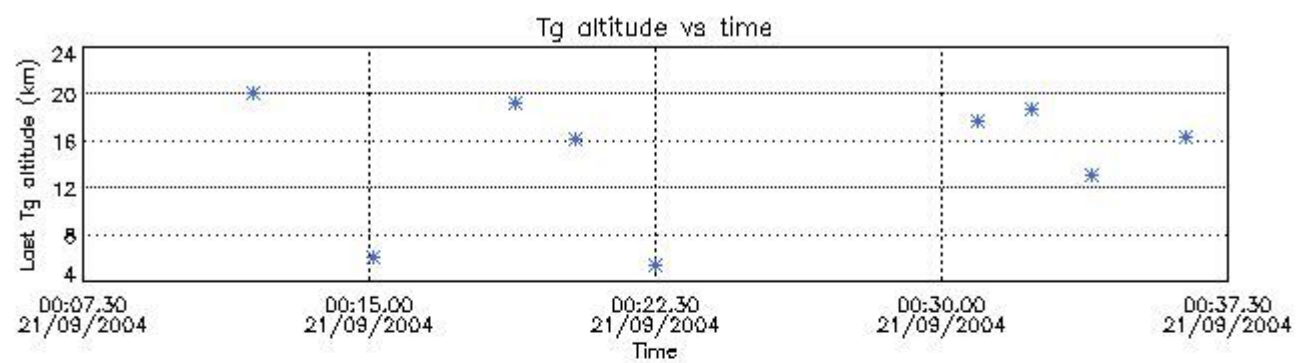
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.731	18.662	12.204
St. deviation:	5.5045	3.6300	0.0000
Maximum:	20.064	23.295	12.204
Minimum:	5.3798	10.353	12.204
Number of data:	9.0000	19.000	1.0000

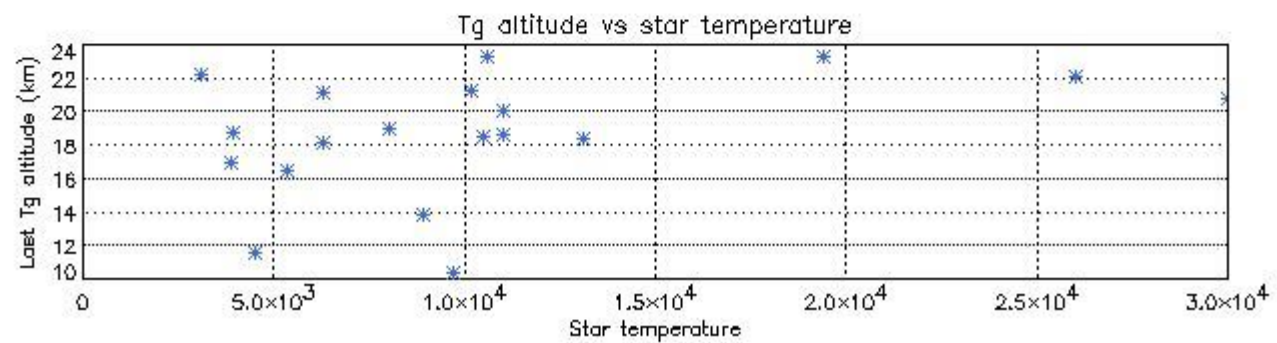
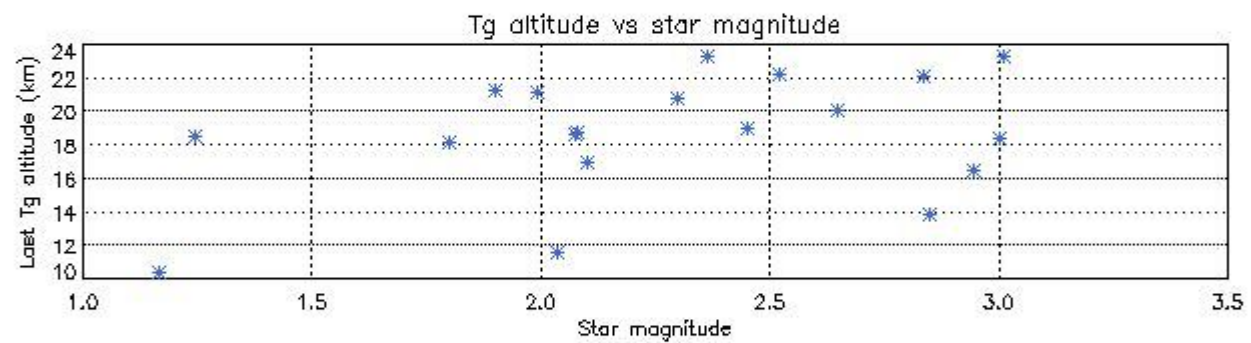
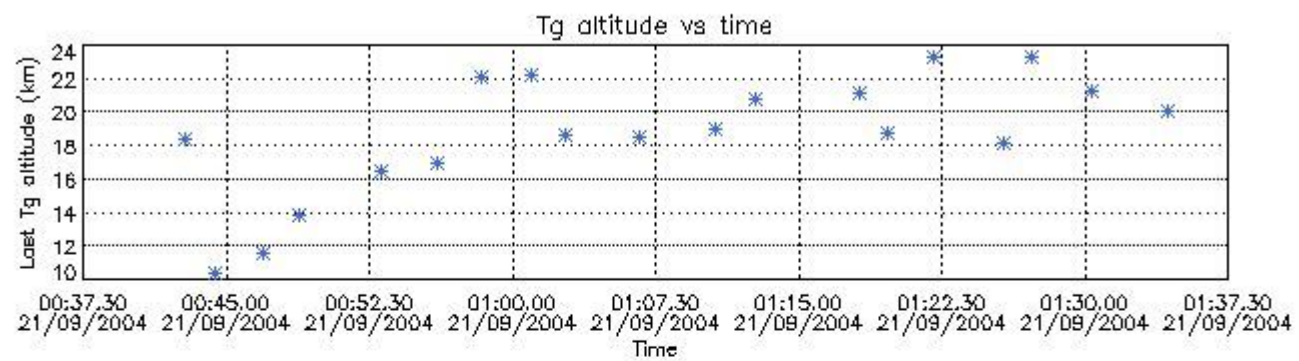
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



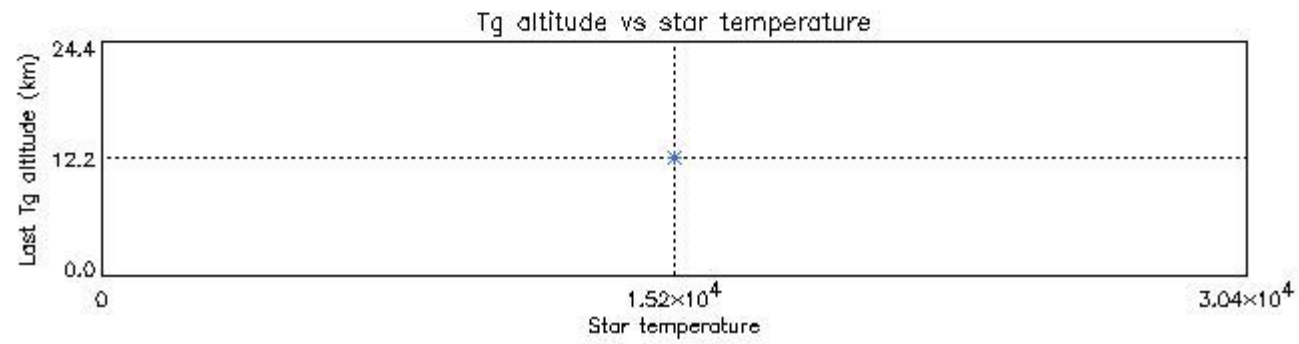
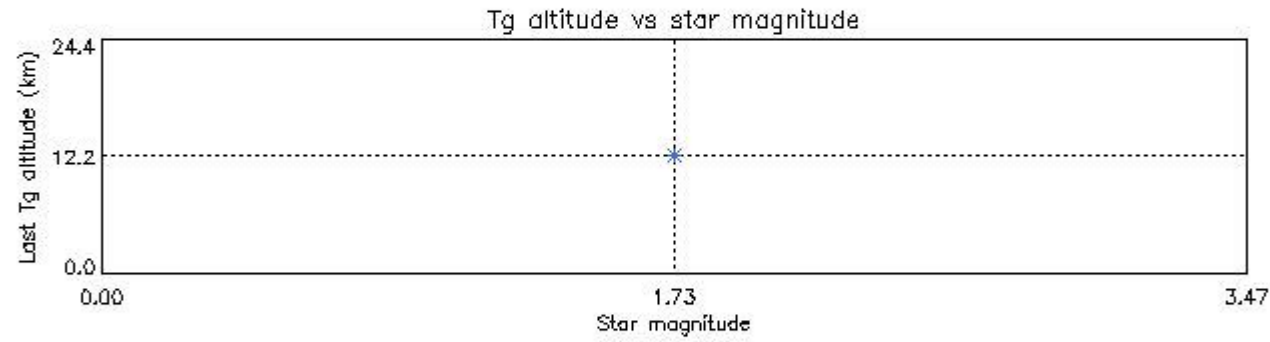
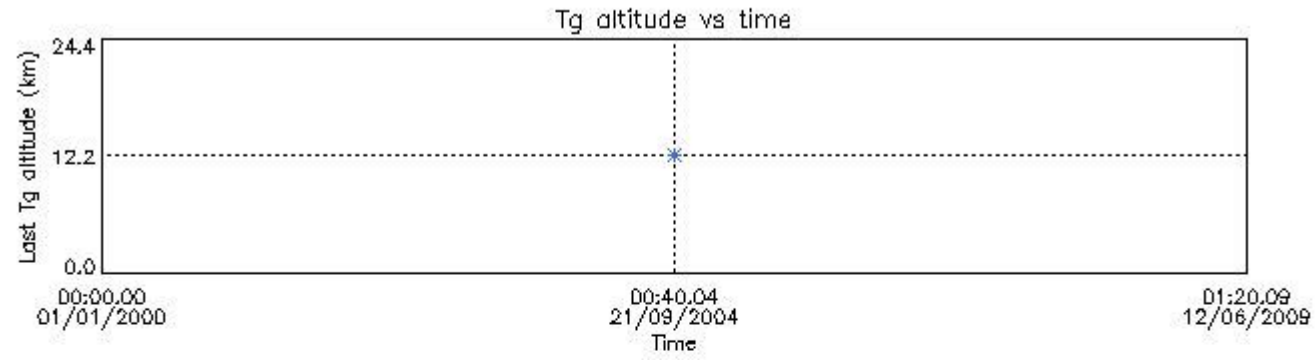
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

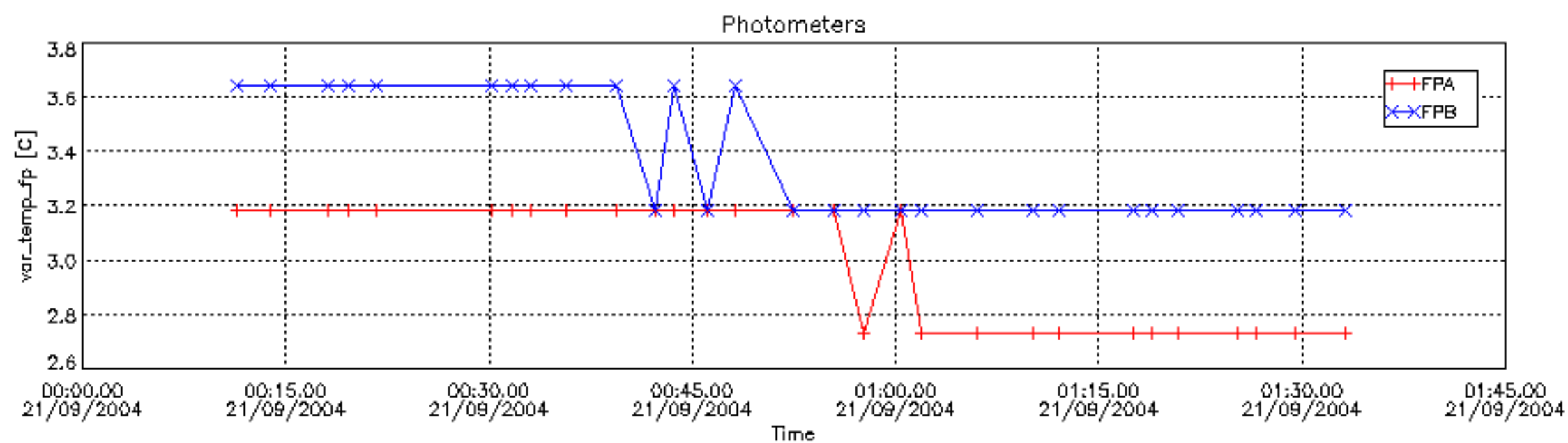
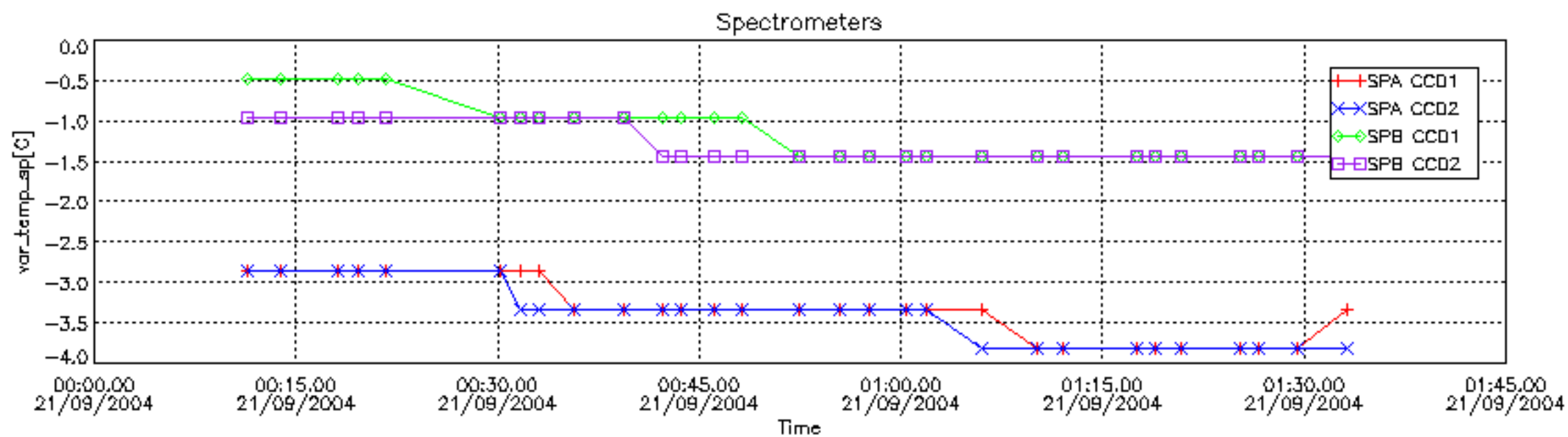
Tangent altitude at which the star is lost

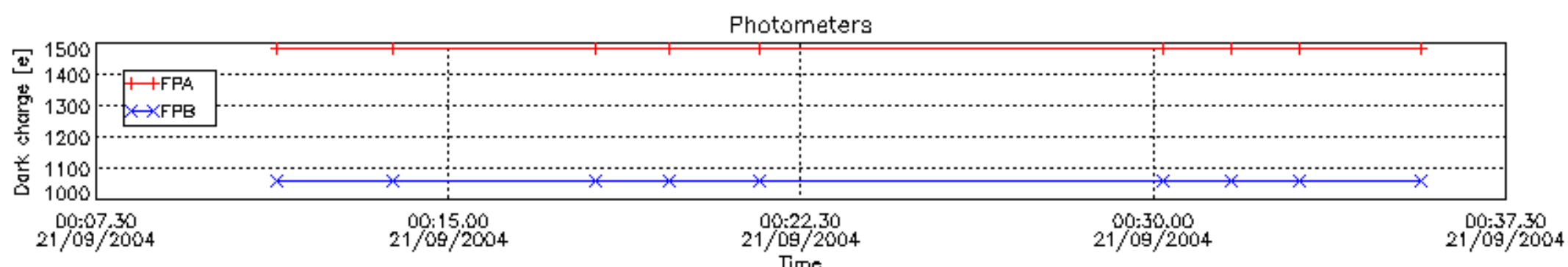
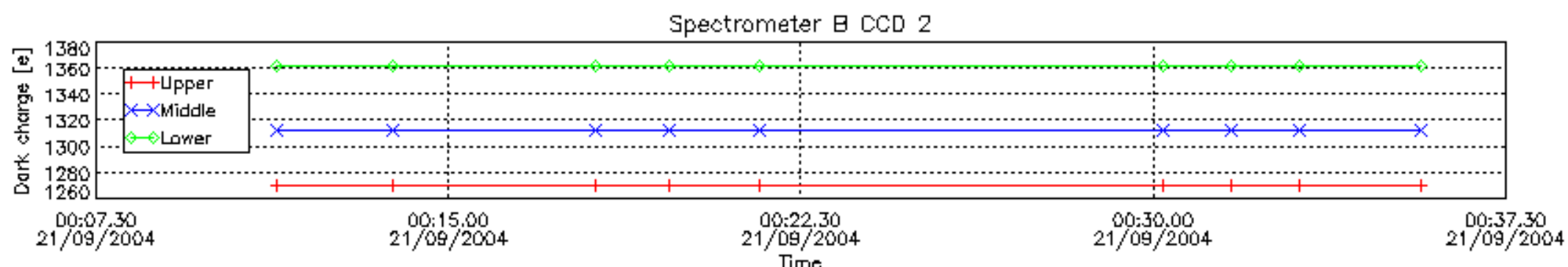
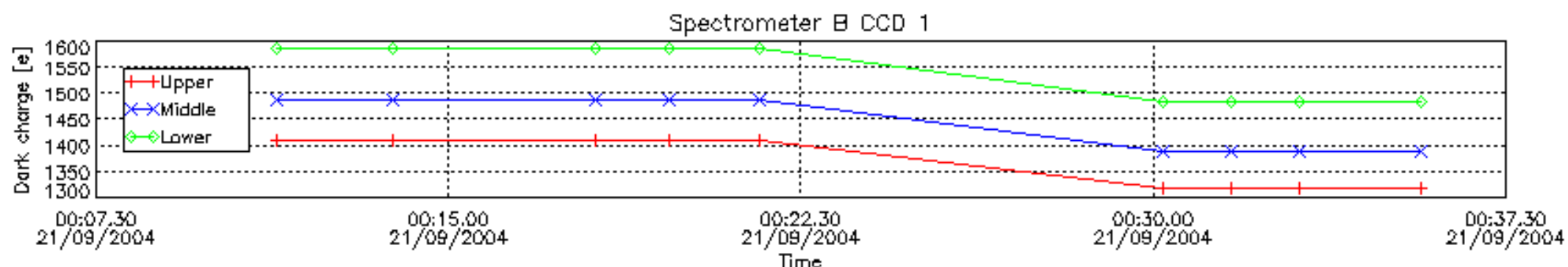
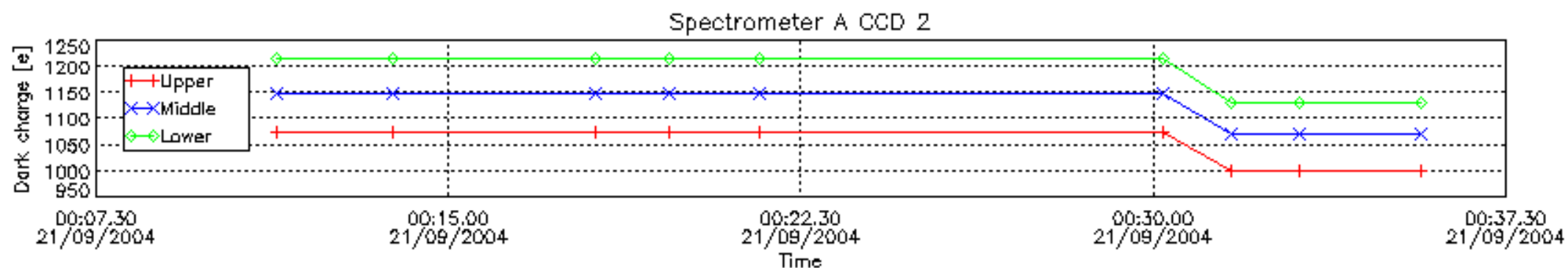
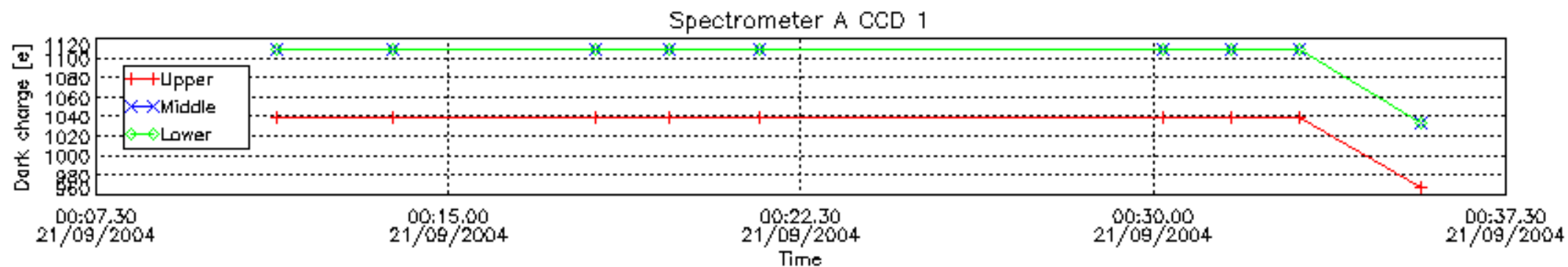


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

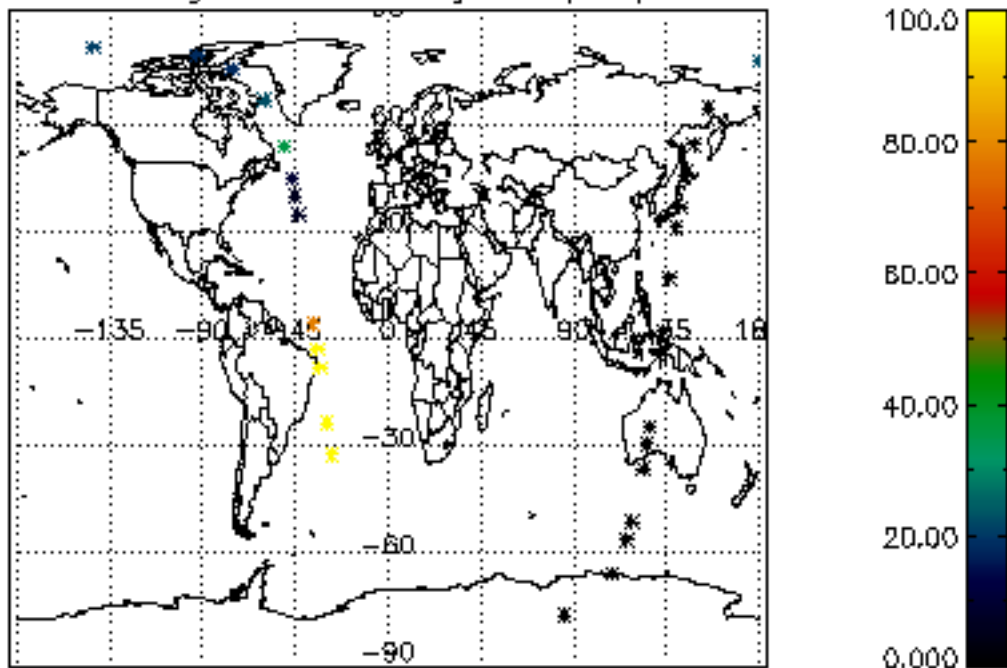
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1460.8	1446.5	1461.1	1447.4
St. deviation:	4.4870	5.7182	7.2472	8.5149
Maximum:	1496.0	1480.0	1516.0	1504.0
Minimum:	1445.0	1430.0	1426.0	1409.0
Number of data:	10650.	10650.	23050.	23050.

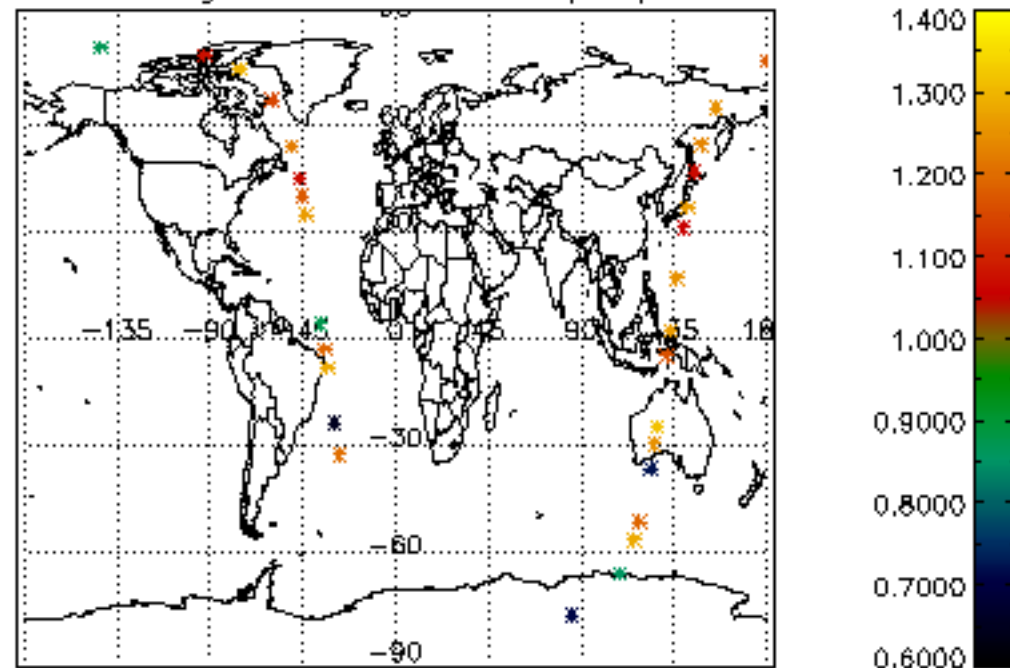




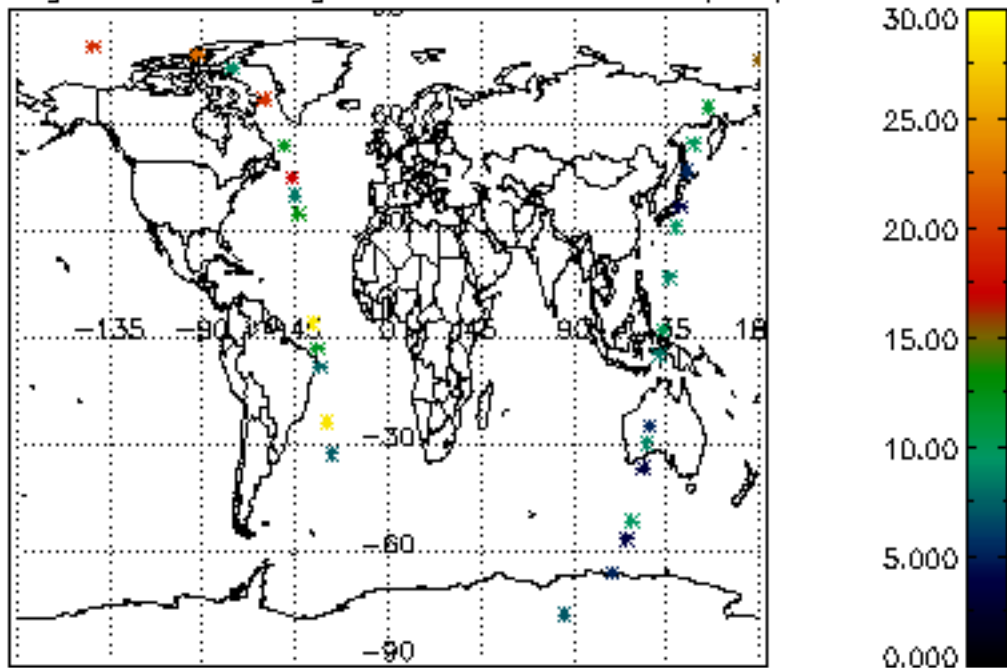
Percentage of cosmic ray hits per profile



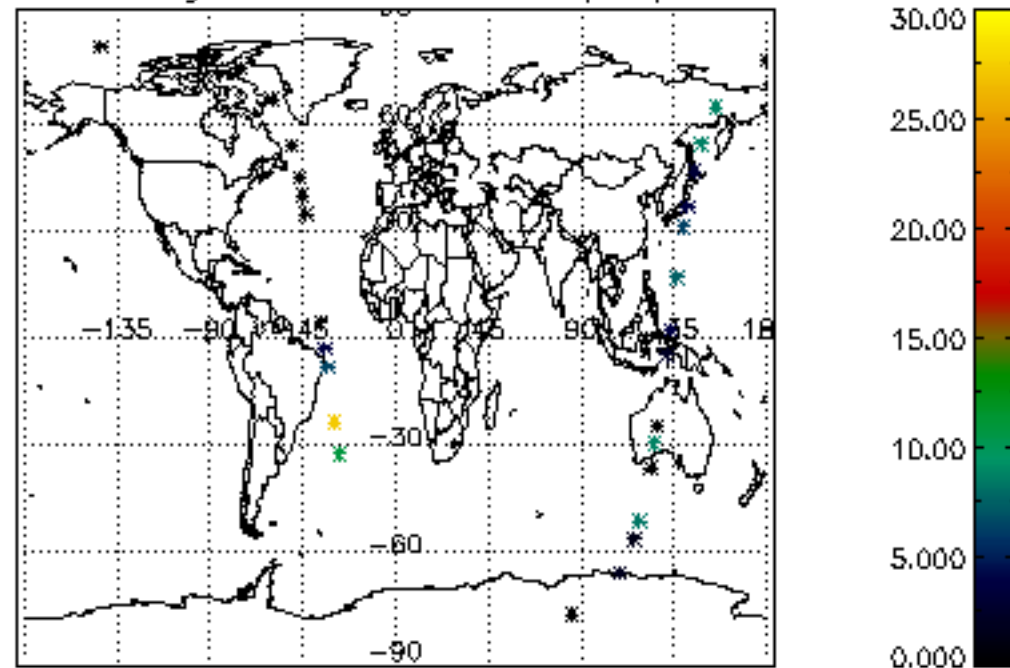
Percentage of datation errors per profile



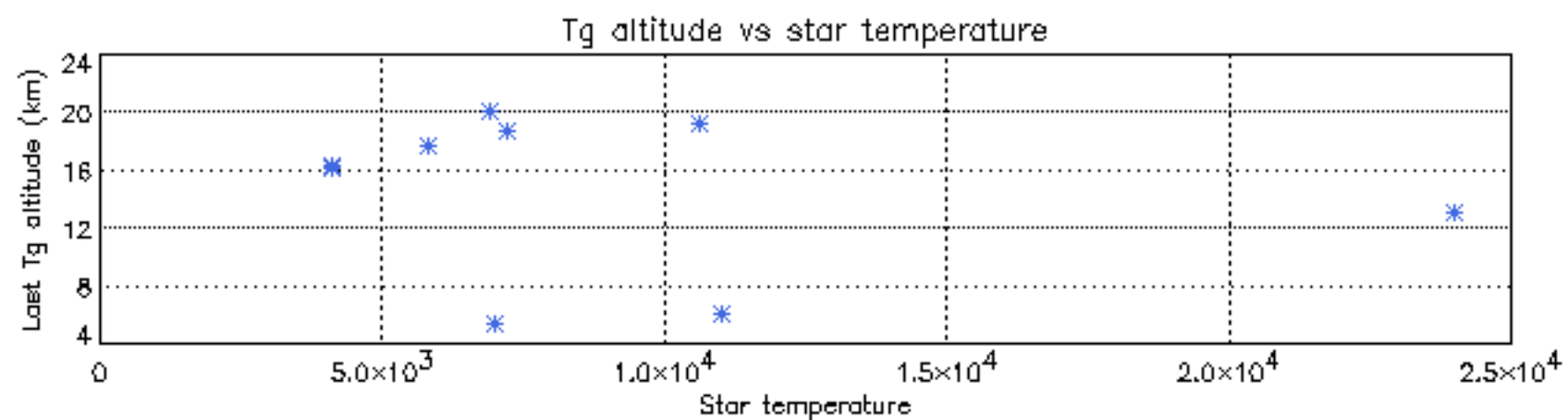
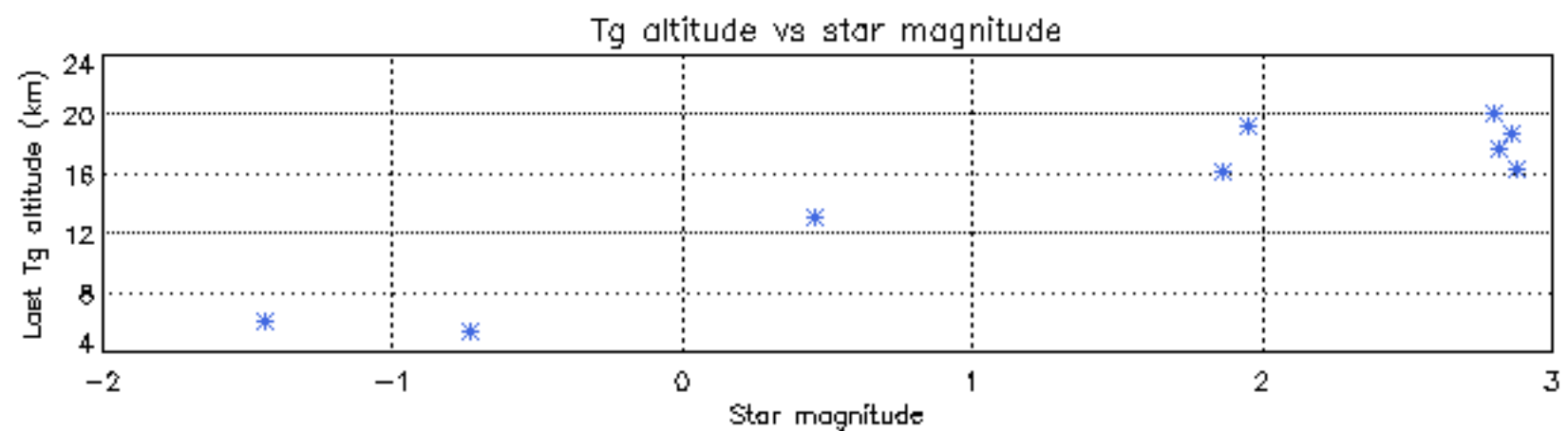
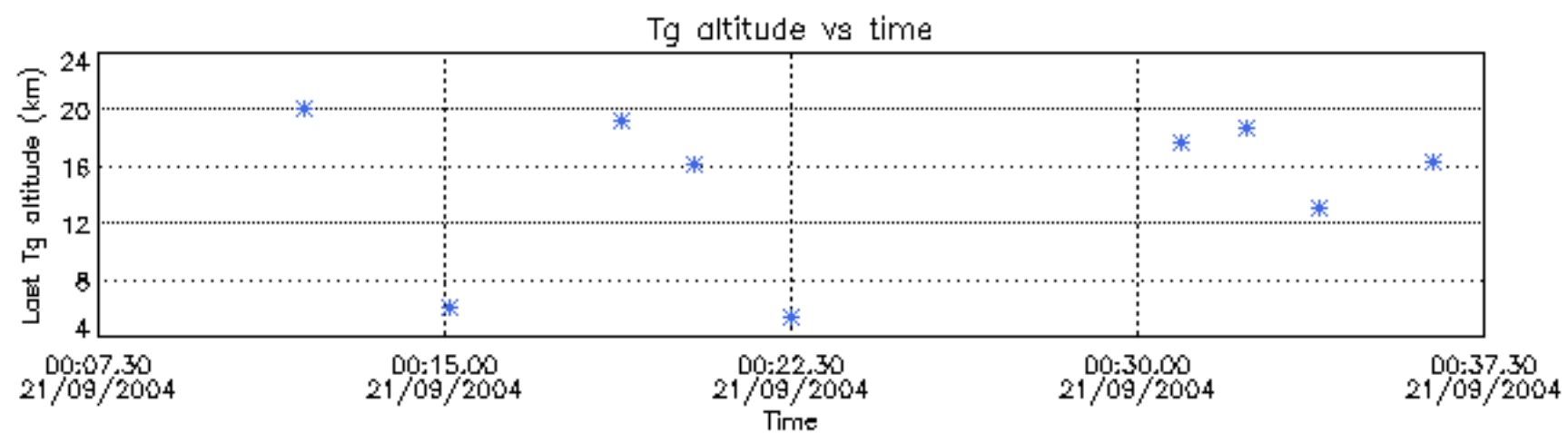
Percentage of star falling outside central band per profile



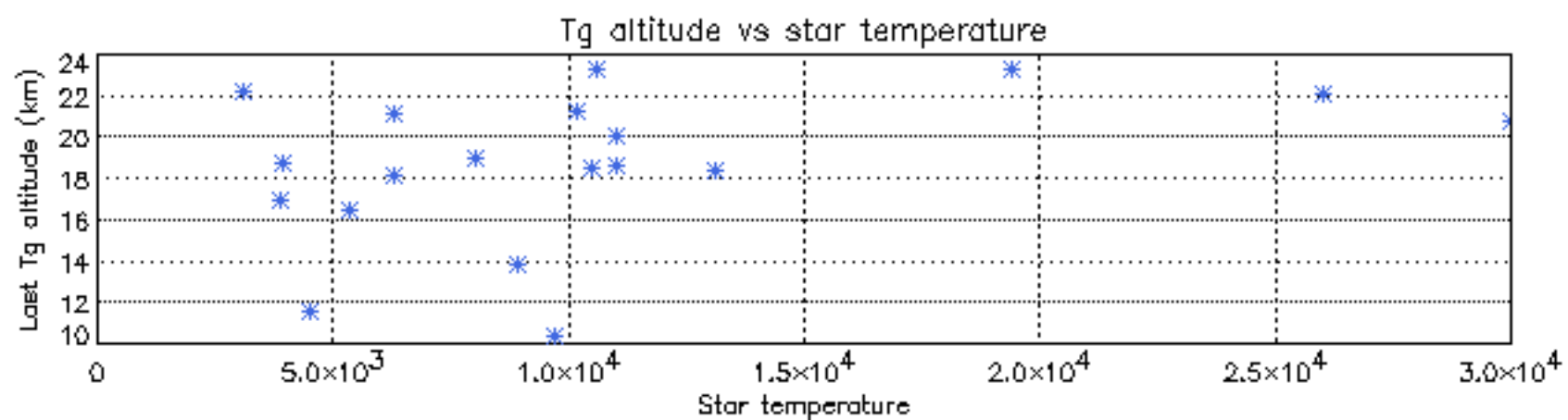
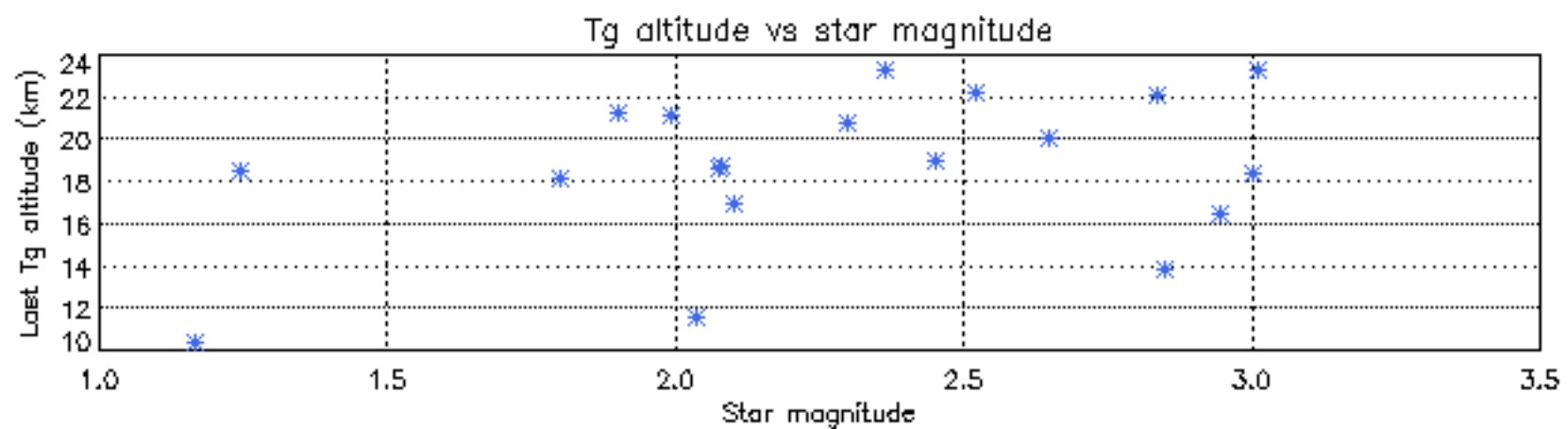
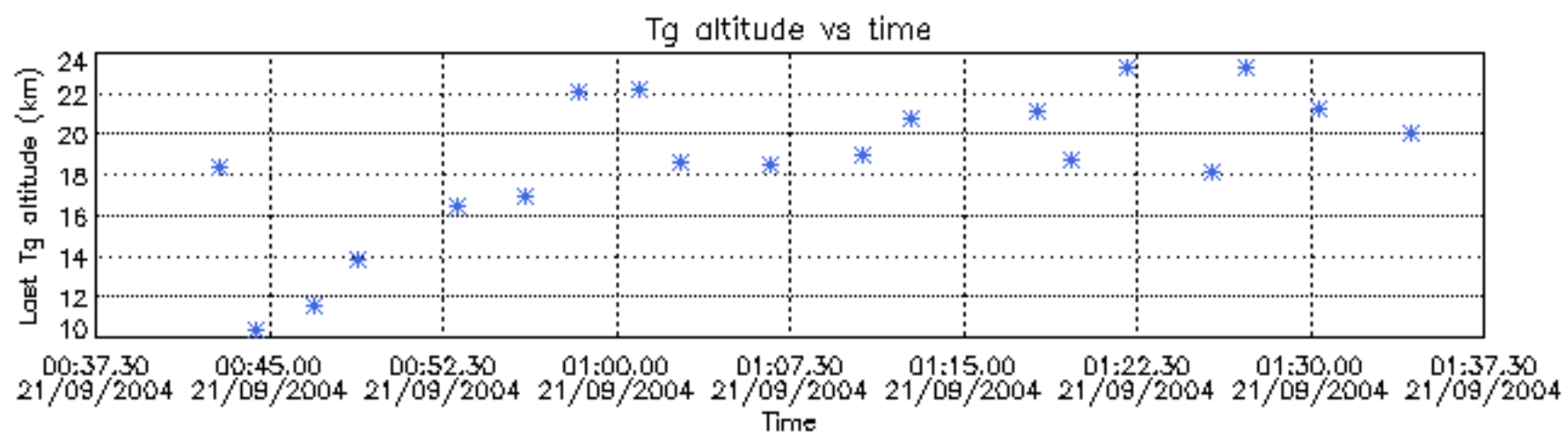
Percentage of saturation errors per profile



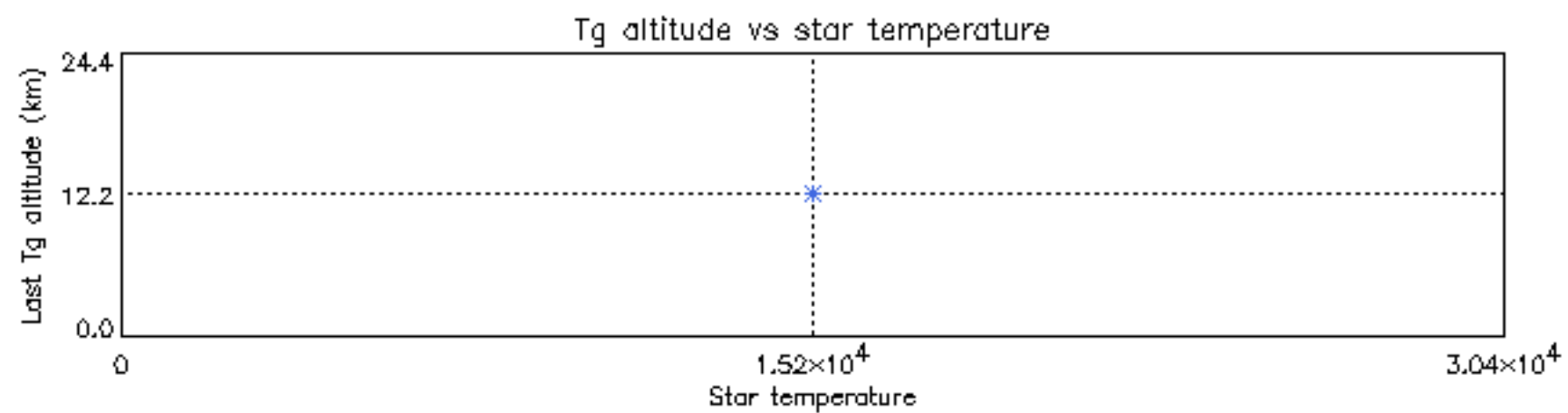
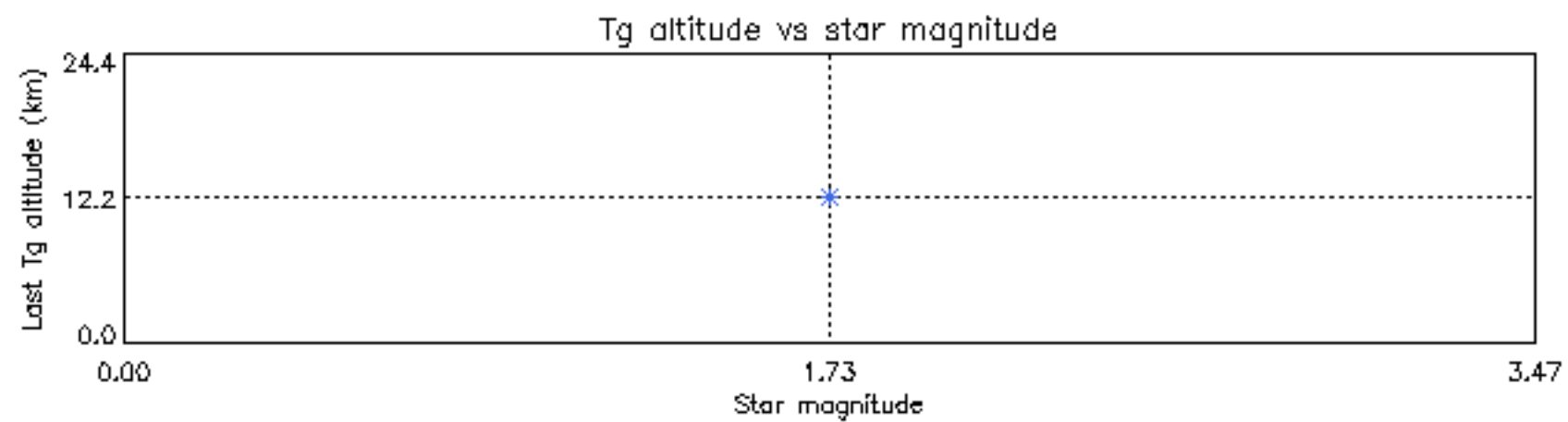
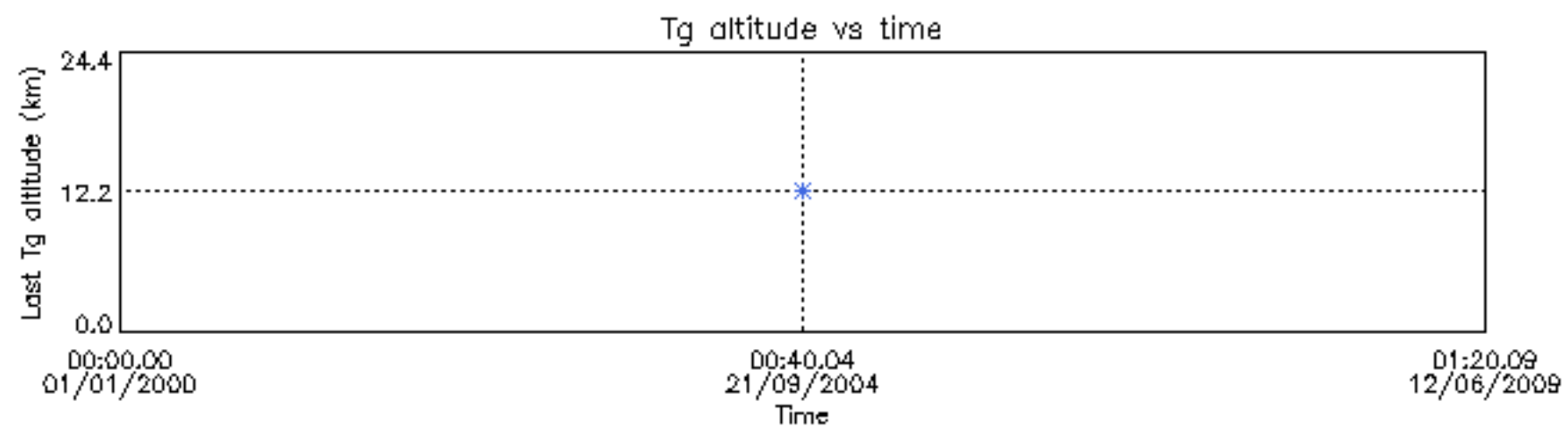
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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/data4_2/GOMOS/from_DDS/GOM_NL_0PNPDE20040901_003627_000058422030_00016_13096_0565.N1
 1; -769.3; 01-SEP-2004 00:36:27; Dark ; 71.0; 27; 24Gam Ori ; 1.64; 26000;occ; 142; 116;13096
 2; -661.8; 01-SEP-2004 00:38:14; Dark ; 52.0; 1; 9Alp CMA ; -1.44; 11000;occ; 104; 0;13096
 3; -469.5; 01-SEP-2004 00:41:27; Dark ; 81.0; 7; 19Bet Ori ; 0.10; 14000;occ; 162; 0;13096
 4; -233.0; 01-SEP-2004 00:45:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13096
 5; -92.2; 01-SEP-2004 00:47:44; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;13096
 6; 527.2; 01-SEP-2004 00:58:03; Dark ; 43.0; 143; Alp Hyi ; 2.86; 7200;occ; 86; 0;13097
 7; 602.6; 01-SEP-2004 00:59:19; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;13097
 8; 861.7; 01-SEP-2004 01:03:38; Dark ; 50.0; 148; Alp Tuc ; 2.88; 4100;occ; 100; 0;13097
 9; 1049.6; 01-SEP-2004 01:06:46; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;13097
10; 1328.1; 01-SEP-2004 01:11:24; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;13097
11; 1490.6; 01-SEP-2004 01:14:07; Dark ; 82.0; 52; 16Bet Cet ; 2.04; 4500;occ; 164; 0;13097
12; 1805.1; 01-SEP-2004 01:19:21; Bright; 40.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 81; 0;13097
13; 1890.9; 01-SEP-2004 01:20:47; Bright; 44.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 89; 0;13097
14; 2073.1; 01-SEP-2004 01:23:49; Bright; 40.5; 61; 8Eps Peg ; 2.10; 3900;occ; 81; 0;13097
15; 2245.6; 01-SEP-2004 01:26:42; Bright; 50.0; 90; 54Alp Peg ; 2.49; 11000;occ; 100; 0;13097
16; 2485.3; 01-SEP-2004 01:30:41; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;13097
17; 2598.4; 01-SEP-2004 01:32:35; Bright; 36.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 73; 0;13097
18; 2673.8; 01-SEP-2004 01:33:50; Bright; 41.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 82; 0;13097
19; 2973.7; 01-SEP-2004 01:38:50; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;13097
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13; 2723.7; 05-SEP-2004 21:15:59; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;13166
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16;	2214.9;	05-SEP-2004	22:48:06;	Bright;		45.5;	90;	54Alp Peg	;	2.49;	11000;occ;	91;	0;	13167
17;	2492.2;	05-SEP-2004	22:52:44;	Bright;		38.0;	92;	53Eps Cyg	;	2.50;	4500;occ;	76;	0;	13167
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22;	3217.9;	05-SEP-2004	23:04:49;	Bright;		47.0;	76;	27Gam Cas	;	2.30;	30000;occ;	94;	0;	13167
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22;	3217.8;	06-SEP-2004	00:45:25;	Bright;		46.0;	76;	27Gam Cas	;	2.30;	30000;occ;	92;	0;	13168
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24;	3633.6;	06-SEP-2004	00:52:21;	Bright;		58.0;	160;	23Gam Per	;	2.93;	4700;occ;	116;	0;	13168
25;	3836.8;	06-SEP-2004	00:55:44;	Bright;		39.0;	36;	50Alp UMa	;	1.80;	6300;occ;	78;	0;	13168
26;	3920.2;	06-SEP-2004	00:57:08;	Bright;		53.0;	82;	48Bet UMa	;	2.37;	10600;occ;	106;	0;	13168
27;	4132.3;	06-SEP-2004	01:00:40;	Bright;		63.0;	6;	13Alp Aur	;	0.08;	3400;occ;	126;	0;	13168
28;	4378.1;	06-SEP-2004	01:04:45;	Bright;		56.0;	107;	37The Aur	;	2.65;	11000;occ;	112;	0;	13168
29;	4525.6;	06-SEP-2004	01:07:13;	Bright;		43.5;	17;	78Bet Gem	;	1.16;	4500;occ;	87;	0;	13168
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27; 2399.1; 19-SEP-2004 07:05:30; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;13358
28; 2539.1; 19-SEP-2004 07:07:50; Bright; 40.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 80; 0;13358
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13; 54.9; 19-SEP-2004 08:07:02; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;13359
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3;	-3943.3;	19-SEP-2004	08:40:59;	Bright;	;	39.0;	61;	8Eps	Peg	;	2.10;	3900;	occ;	78;	0;	13359
4;	-3797.4;	19-SEP-2004	08:43:25;	Bright;	;	47.5;	140;	88Gam	Peg	;	2.83;	26000;	occ;	95;	0;	13359
5;	-3636.9;	19-SEP-2004	08:46:06;	Bright;	;	39.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	78;	0;	13359
6;	-3496.6;	19-SEP-2004	08:48:26;	Bright;	;	39.5;	92;	53Eps	Cyg	;	2.50;	4500;	occ;	79;	0;	13359
7;	-3366.2;	19-SEP-2004	08:50:36;	Bright;	;	41.0;	66;	37Gam	Cyg	;	2.21;	5900;	occ;	82;	0;	13359
8;	-3230.9;	19-SEP-2004	08:52:52;	Bright;	;	56.0;	53;	43Bet	And	;	2.05;	3300;	occ;	112;	0;	13359
9;	-3061.5;	19-SEP-2004	08:55:41;	Bright;	;	37.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	75;	0;	13359
10;	-2931.0;	19-SEP-2004	08:57:52;	Bright;	;	43.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	86;	0;	13359
11;	-2606.9;	19-SEP-2004	09:03:16;	Bright;	;	35.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	71;	0;	13359
12;	-2491.8;	19-SEP-2004	09:05:11;	Bright;	;	68.0;	35;	33Alp	Per	;	1.79;	6250;	occ;	136;	0;	13359
13;	-2378.8;	19-SEP-2004	09:07:04;	Bright;	;	71.0;	175;	39Del	Per	;	3.01;	19400;	occ;	142;	0;	13359
14;	-2156.3;	19-SEP-2004	09:10:46;	Bright;	;	37.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	74;	0;	13359
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16;	-1882.6;	19-SEP-2004	09:15:20;	Bright;	;	36.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	72;	0;	13359
17;	-1668.2;	19-SEP-2004	09:18:54;	Bright;	;	66.0;	107;	37The	Aur	;	2.65;	11000;	occ;	132;	0;	13359
18;	-1473.9;	19-SEP-2004	09:22:09;	Bright;	;	50.5;	17;	78Bet	Gem	;	1.16;	4500;	occ;	101;	0;	13359
19;	-1284.7;	19-SEP-2004	09:25:18;	Dark	;	156.5;	28;	12Bet	Tau	;	1.65;	15200;	occ;	313;	0;	13359
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23;	-257.3;	19-SEP-2004	09:42:25;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	13359
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25;	-53.1;	19-SEP-2004	09:45:50;	Dark	;	47.5;	41;	Eps	Car	;	1.86;	4100;	occ;	95;	0;	13359
26;	55.2;	19-SEP-2004	09:47:38;	Dark	;	57.0;	2;	Alp	Car	;	-0.74;	7000;	occ;	114;	0;	13360
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28;	661.8;	19-SEP-2004	09:57:44;	Dark	;	41.0;	143;	Alp	Hyi	;	2.86;	7200;	occ;	82;	0;	13360
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34;	1532.2;	19-SEP-2004	10:12:15;	Dark	;	60.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	120;	0;	13360
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3;	-3943.6;	19-SEP-2004	12:02:11;	Bright;	;	39.5;	61;	8Eps	Peg	;	2.10;	3900;	occ;	79;	0;	13361
4;	-3798.5;	19-SEP-2004	12:04:36;	Bright;	;	48.5;	140;	88Gam	Peg	;	2.83;	26000;	occ;	97;	0;	13361
5;	-3638.0;	19-SEP-2004	12:07:16;	Bright;	;	39.5;	93;	53Bet	Peg	;	2.52;	3100;	occ;	79;	0;	13361
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7;	-3368.1;	19-SEP-2004	12:11:46;	Bright;	;	42.0;	66;	37Gam	Cyg	;	2.21;	5900;	occ;	84;	0;	13361
8;	-3232.5;	19-SEP-2004	12:14:02;	Bright;	;	60.0;	53;	43Bet	And	;	2.05;	3300;	occ;	120;	0;	13361
9;	-3062.6;	19-SEP-2004	12:16:52;	Bright;	;	38.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	77;	0;	13361
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11;	-2493.9;	19-SEP-2004	12:26:20;	Bright;	;	72.0;	35;	33Alp	Per	;	1.79;	6250;	occ;	144;	0;	13361
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13;	-2155.8;	19-SEP-2004	12:31:58;	Bright;	;	37.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	74;	0;	13361
14;	-2068.5;	19-SEP-2004	12:33:26;	Bright;	;	46.0;	82;	48Bet	UMa	;	2.37;	10600;	occ;	92;	0;	13361
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16;	-1668.5;	19-SEP-2004	12:40:06;	Bright;	;	68.5;	107;	37The	Aur	;	2.65;	11000;	occ;	137;	0;	13361
17;	-1473.4;	19-SEP-2004	12:43:21;	Bright;	;	64.0;	17;	78Bet	Gem	;	1.16;	4500;	occ;	128;	0;	13361
18;	-1282.2;	19-SEP-2004	12:46:32;	Dark	;	170.0;	28;	12Bet	Tau	;	1.65;	15200;	occ;	340;	0;	13361
19;	-1002.5;	19-SEP-2004	12:51:12;	Dark	;	58.0;	8;	10Alp	CMi	;	0.40;	6500;	occ;	116;	0;	13361
20;	-560.2;	19-SEP-2004	12:58:34;	Dark	;	44.5;	132;	15Rho	Pup	;	2.80;	6900;	occ;	89;	0;	13361
21;	-425.5;	19-SEP-2004	13:00:49;	Dark	;	68.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	136;	0;	13361
22;	-256.7;	19-SEP-2004	13:03:38;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	13361
23;	-146.7;	19-SEP-2004	13:05:28;	Dark	;	42.0;	46;	Del	Vel	;	1.95;	10600;	occ;	84;	0;	13361
24;	-52.5;	19-SEP-2004	13:07:02;	Dark	;	50.0;	41;	Eps	Car	;	1.86;	4100;	occ;	100;	0;	13361
25;	50.5;	19-SEP-2004	13:08:45;	Dark	;	89.5;	101;	11Alp	Lep	;	2.58;	7000;	occ;	179;	0;	13362
26;	366.7;	19-SEP-2004	13:14:01;	Dark	;	230.0;	7;	19Bet	Ori	;	0.10;	14000;	occ;	460;	0;	13362
27;	662.3;	19-SEP-2004	13:18:57;	Dark	;	41.0;	143;	Alp	Hyi	;	2.86;	7200;	occ;	82;	0;	13362
28;	748.1;	19-SEP-2004	13:20:22;	Dark	;	55.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	110;	0;	13362
29;	910.2;	19-SEP-2004	13:23:04;	Dark	;	37.5;	148;	Alp	Tuc	;	2.88;	4100;	occ;	75;	0;	13362
30;	1115.3;	19-SEP-2004	13:26:30;	Dark	;	46.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	93;	0;	13362
31;	1302.8;	19-SEP-2004	13:29:37;	Dark	;	38.0;	172;	Gam	Gru	;	3.00;	13100;	occ;	76;	0;	13362


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