

GOMOS Daily Report 29-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	01OCT2004 05:03:29
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (29SEP2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (30SEP2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	0

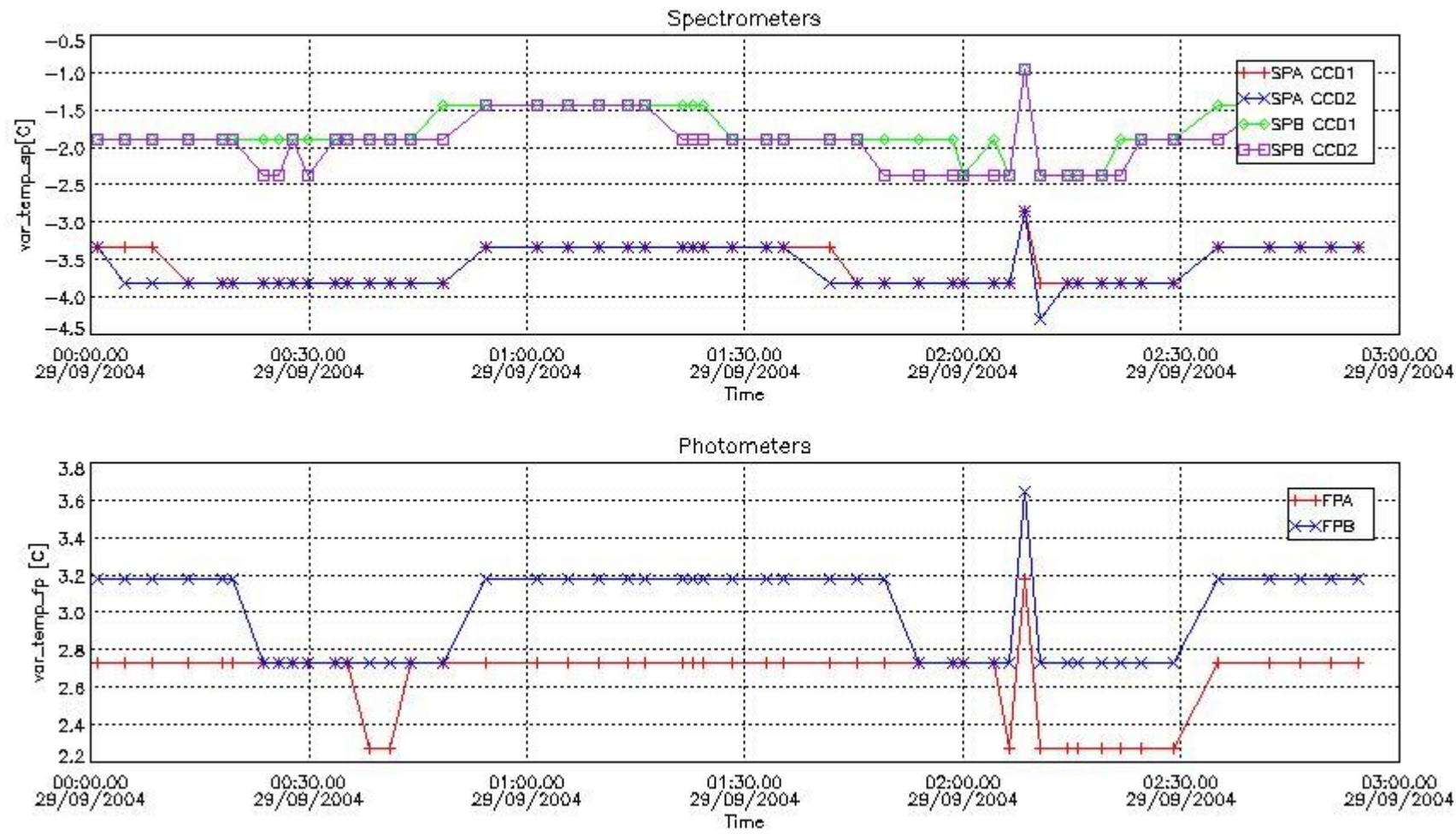
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040929_000102_000000402030_00417_13497_0011.N1	29-SEP-2004 00:01:02	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	13497	No
GOM_TRA_1PNPDE20040929_000447_000000412030_00417_13497_0012.N1	29-SEP-2004 00:04:47	Bright	40.500	90	54Alp Peg	2.4870	11000.	81	13497	No
GOM_TRA_1PNPDE20040929_000829_000000382030_00417_13497_0013.N1	29-SEP-2004 00:08:29	Bright	37.500	93	53Bet Peg	2.5200	3100.0	75	13497	No
GOM_TRA_1PNPDE20040929_001322_000000462030_00417_13497_0014.N1	29-SEP-2004 00:13:22	Bright	46.000	53	43Bet And	2.0480	3300.0	92	13497	No
GOM_TRA_1PNPDE20040929_001800_000000422030_00417_13497_0015.N1	29-SEP-2004 00:18:00	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	13497	No
GOM_TRA_1PNPDE20040929_001925_000000432030_00417_13497_0016.N1	29-SEP-2004 00:19:25	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	13497	No
GOM_TRA_1PNPDE20040929_002339_000000542030_00417_13497_0017.N1	29-SEP-2004 00:23:39	Bright	54.000	160	23Gam Per	2.9300	4700.0	108	13497	No
GOM_TRA_1PNPDE20040929_002551_000000382030_00417_13497_0018.N1	29-SEP-2004 00:25:51	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	13497	No
GOM_TRA_1PNPDE20040929_002748_000000372030_00417_13497_0019.N1	29-SEP-2004 00:27:48	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	13497	No
GOM_TRA_1PNPDE20040929_002956_000001022030_00417_13497_0020.N1	29-SEP-2004 00:29:56	Bright	102.00	149	45Eps Per	2.8880	30000.	204	13497	No
GOM_TRA_1PNPDE20040929_003343_000000402030_00417_13497_0021.N1	29-SEP-2004 00:33:43	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	13497	No
GOM_TRA_1PNPDE20040929_003513_000000402030_00417_13497_0022.N1	29-SEP-2004 00:35:13	Bright	40.000	82	48Bet UMa	2.3650	10600.	80	13497	No
GOM_TRA_1PNPDE20040929_003827_000000382030_00417_13497_0023.N1	29-SEP-2004 00:38:27	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	13497	No
GOM_TRA_1PNPDE20040929_004106_000000902030_00417_13497_0024.N1	29-SEP-2004 00:41:06	Bright	89.500	107	37The Aur	2.6490	11000.	179	13497	No
GOM_TRA_1PNPDE20040929_004353_000000762030_00417_13497_0025.N1	29-SEP-2004 00:43:53	Bright	76.000	24	66Alp Gem	1.5800	10200.	152	13497	No
GOM_TRA_1PNPDE20040929_004822_000001002030_00417_13497_0026.N1	29-SEP-2004 00:48:22	Twilight	99.500	170	27Eps Gem	3.0000	9700.0	199	13497	No
GOM_TRA_1PNPDE20040929_005423_000000732030_00417_13497_0027.N1	29-SEP-2004 00:54:23	Twilight	72.500	8	10Alp CMi	0.40000	6500.0	145	13497	No
GOM_TRA_1PNPDE20040929_010128_000000512030_00417_13497_0000.N1	29-SEP-2004 01:01:28	Dark	50.500	132	15Rho Pup	2.8030	6900.0	101	13497	No
GOM_TRA_1PNPDE20040929_010537_000000752030_00417_13497_0001.N1	29-SEP-2004 01:05:37	Dark	75.000	1	9Alp CMa	-1.4400	11000.	150	13497	No
GOM_TRA_1PNPDE20040929_010959_000000602030_00418_13498_0002.N1	29-SEP-2004 01:09:59	Dark	59.500	177	1Zet CMa	3.0220	26000.	119	13498	No
GOM_TRA_1PNPDE20040929_011346_000000652030_00418_13498_0003.N1	29-SEP-2004 01:13:46	Dark	64.500	108	Alp Col	2.6520	15200.	129	13498	No
GOM_TRA_1PNPDE20040929_011616_000002282030_00418_13498_0004.N1	29-SEP-2004 01:16:16	Dark	228.00	56	53Kap Ori	2.0650	30000.	456	13498	No
GOM_TRA_1PNPDE20040929_012122_000000422030_00418_13498_0005.N1	29-SEP-2004 01:21:22	Dark	41.500	143	Alp Hyi	2.8570	7200.0	83	13498	No
GOM_TRA_1PNPDE20040929_012250_000000452030_00418_13498_0006.N1	29-SEP-2004 01:22:50	Dark	45.000	9	Alp Eri	0.45300	24000.	90	13498	No
GOM_TRA_1PNPDE20040929_012414_000000542030_00418_13498_0007.N1	29-SEP-2004 01:24:14	Dark	54.000	157	The1Eri	2.9060	9300.0	108	13498	No
GOM_TRA_1PNPDE20040929_012813_000000472030_00418_13498_0008.N1	29-SEP-2004 01:28:13	Twilight	46.500	84	Alp Phe	2.3970	4500.0	93	13498	No
GOM_TRA_1PNPDE20040929_013256_000000422030_00418_13498_0009.N1	29-SEP-2004 01:32:56	Bright	41.500	18	24Alp PsA	1.1660	9700.0	83	13498	No
GOM_TRA_1PNPDE20040929_013511_000000582030_00418_13498_0010.N1	29-SEP-2004 01:35:11	Bright	58.000	52	16Bet Cet	2.0370	4500.0	116	13498	No
GOM_TRA_1PNPDE20040929_014138_000000392030_00418_13498_0011.N1	29-SEP-2004 01:41:38	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	13498	No
GOM_TRA_1PNPDE20040929_014526_000000392030_00418_13498_0012.N1	29-SEP-2004 01:45:26	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	13498	No
GOM_TRA_1PNPDE20040929_014905_000000382030_00418_13498_0013.N1	29-SEP-2004 01:49:05	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	13498	No
GOM_TRA_1PNPDE20040929_015357_000000492030_00418_13498_0014.N1	29-SEP-2004 01:53:57	Bright	49.000	53	43Bet And	2.0480	3300.0	98	13498	No
GOM_TRA_1PNPDE20040929_015836_000000412030_00418_13498_0015.N1	29-SEP-2004 01:58:36	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	13498	No
GOM_TRA_1PNPDE20040929_020001_000000422030_00418_13498_0016.N1	29-SEP-2004 02:00:01	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	13498	No
GOM_TRA_1PNPDE20040929_020414_000000532030_00418_13498_0017.N1	29-SEP-2004 02:04:14	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	13498	No
GOM_TRA_1PNPDE20040929_020627_000000382030_00418_13498_0018.N1	29-SEP-2004 02:06:27	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	13498	No
GOM_TRA_1PNPDE20040929_020824_000000412030_00418_13498_0000.N1	29-SEP-2004 02:08:24	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	13498	No
GOM_TRA_1PNPDE20040929_021030_000001012030_00418_13498_0001.N1	29-SEP-2004 02:10:30	Bright	101.00	149	45Eps Per	2.8880	30000.	202	13498	No
GOM_TRA_1PNPDE20040929_021422_000000392030_00418_13498_0002.N1	29-SEP-2004 02:14:22	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	13498	No
GOM_TRA_1PNPDE20040929_021549_000000412030_00418_13498_0003.N1	29-SEP-2004 02:15:49	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	13498	No
GOM_TRA_1PNPDE20040929_021903_000000372030_00418_13498_0004.N1	29-SEP-2004 02:19:03	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	13498	No
GOM_TRA_1PNPDE20040929_022142_000000852030_00418_13498_0005.N1	29-SEP-2004 02:21:42	Bright	84.500	107	37The Aur	2.6490	11000.	169	13498	No
GOM_TRA_1PNPDE20040929_022429_000000582030_00418_13498_0006.N1	29-SEP-2004 02:24:29	Bright	58.000	24	66Alp Gem	1.5800	10200.	116	13498	No
GOM_TRA_1PNPDE20040929_022858_000000972030_00418_13498_0007.N1	29-SEP-2004 02:28:58	Twilight	97.000	170	27Eps Gem	3.0000	9700.0	194	13498	No
GOM_TRA_1PNPDE20040929_023500_000000762030_00418_13498_0008.N1	29-SEP-2004 02:35:00	Twilight	75.500	8	10Alp CMi	0.40000	6500.0	151	13498	No
GOM_TRA_1PNPDE20040929_024206_000000502030_00418_13498_0009.N1	29-SEP-2004 02:42:06	Dark	49.500	132	15Rho Pup	2.8030	6900.0	99	13498	No
GOM_TRA_1PNPDE20040929_024616_000000922030_00418_13498_0010.N1	29-SEP-2004 02:46:16	Dark	92.000	1	9Alp CMa	-1.4400	11000.	184	13498	No
GOM_TRA_1PNPDE20040929_025036_000000612030_00419_13499_0011.N1	29-SEP-2004 02:50:36	Dark	60.500	177	1Zet CMa	3.0220	26000.	121	13499	No
GOM_TRA_1PNPDE20040929_025426_000000622030_00419_13499_0012.N1	29-SEP-2004 02:54:26	Dark	62.000	108	Alp Col	2.6520	15200.	124	13499	No

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



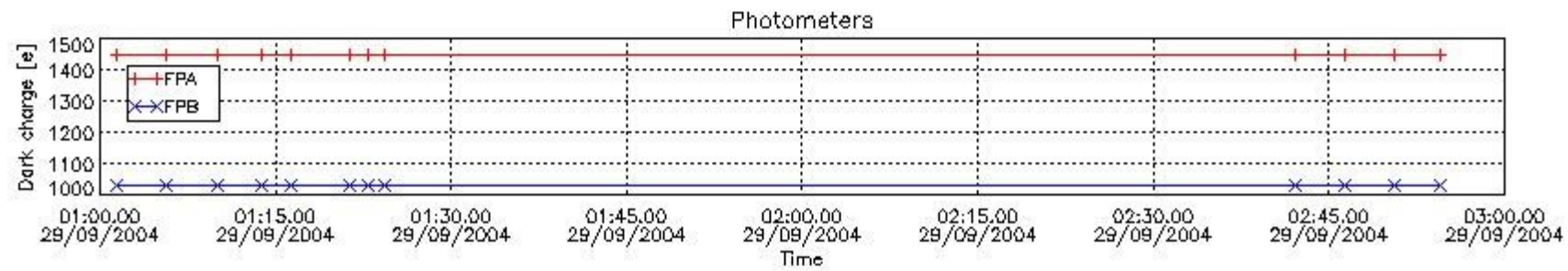
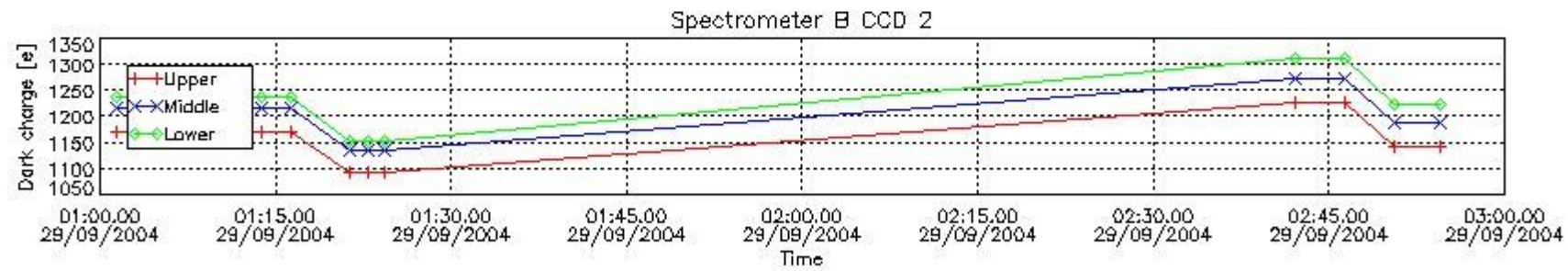
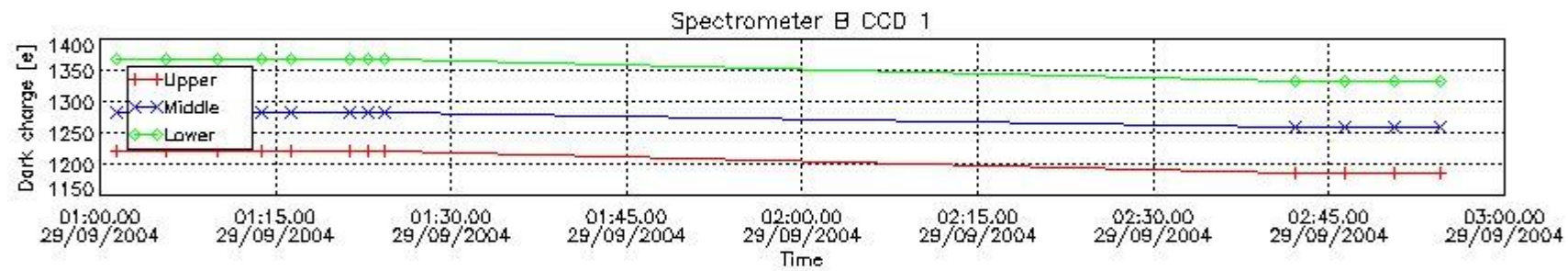
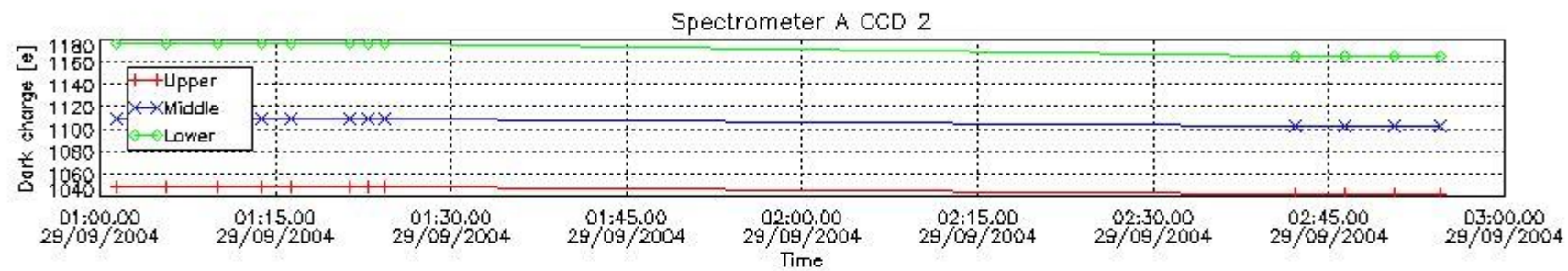
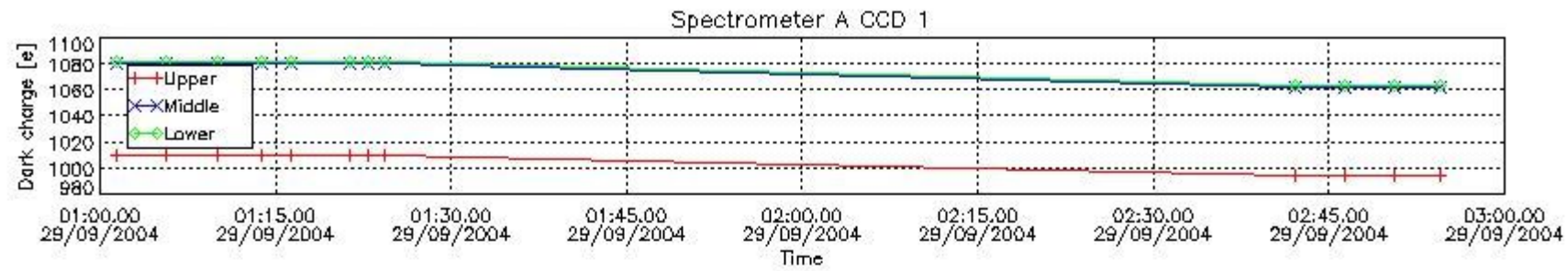
4. Overview of dark signal processing per product

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



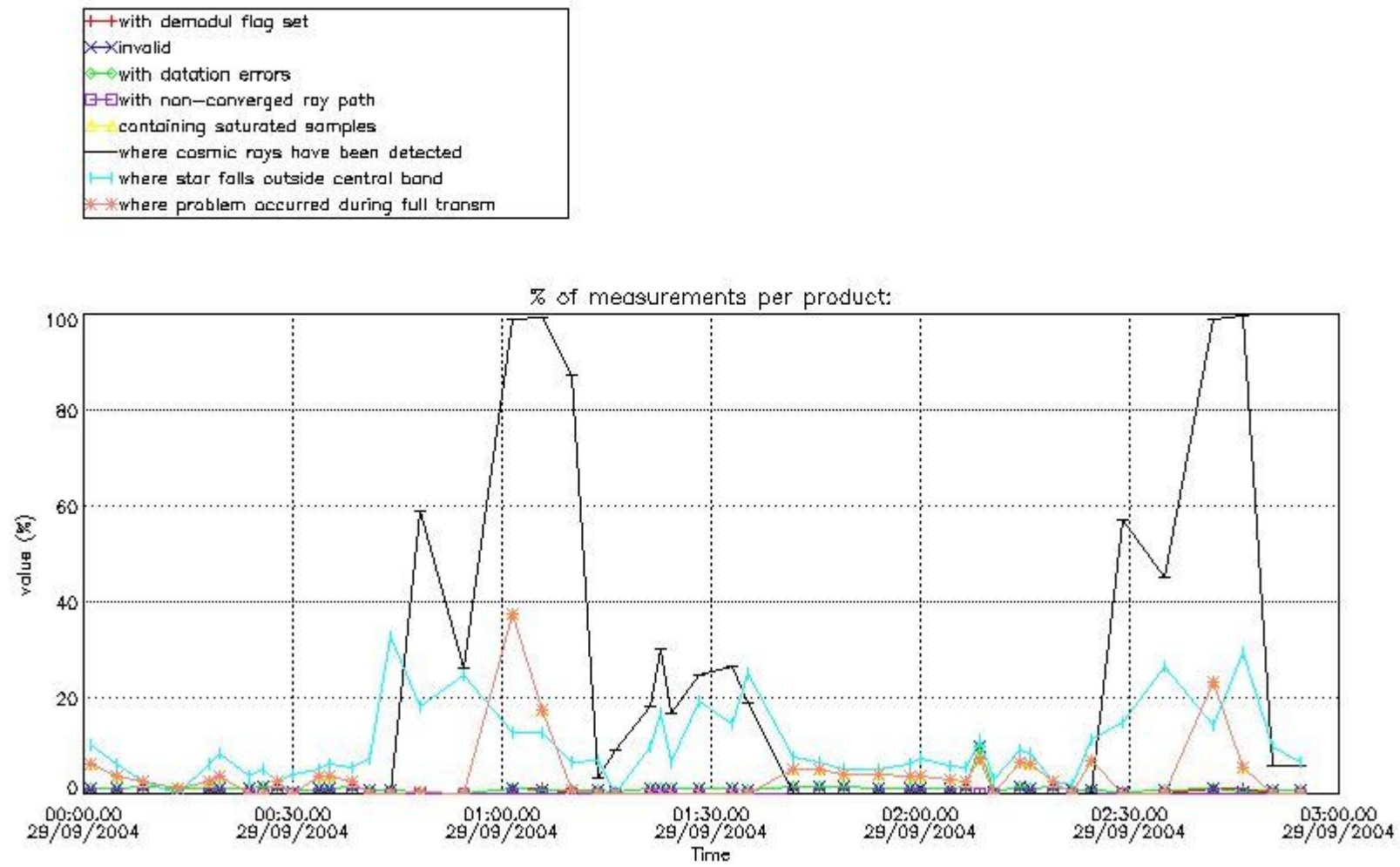
5. Demodulation flag and quality information monitoring

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.

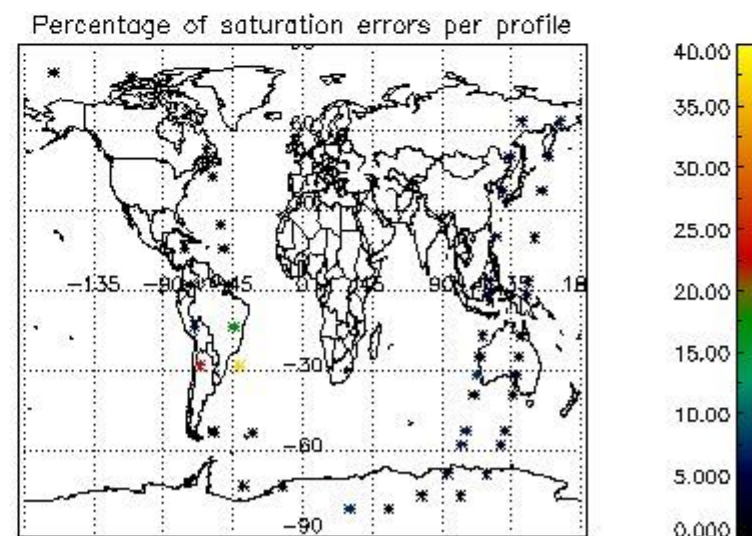
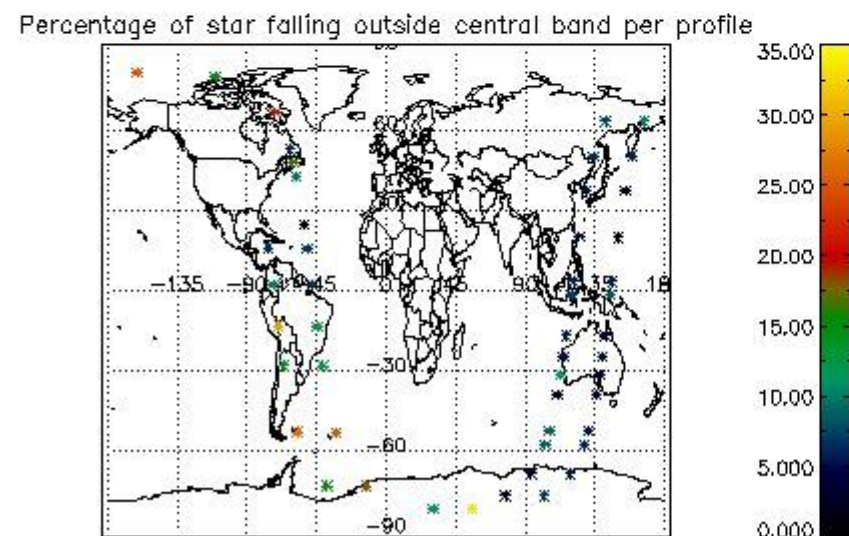
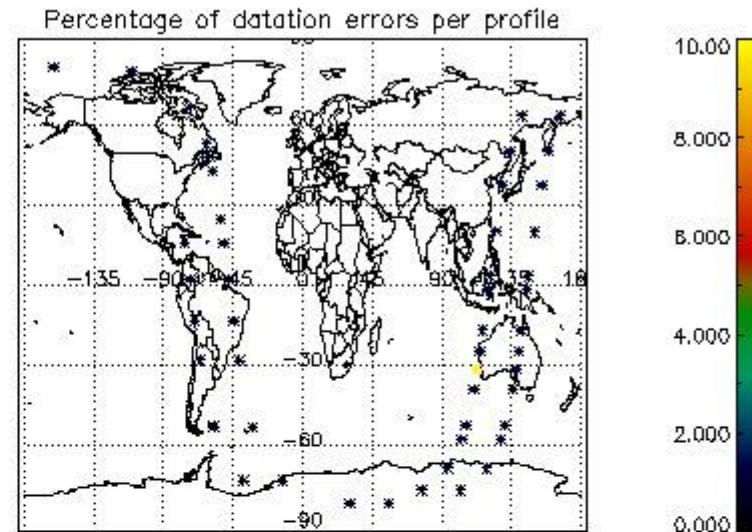
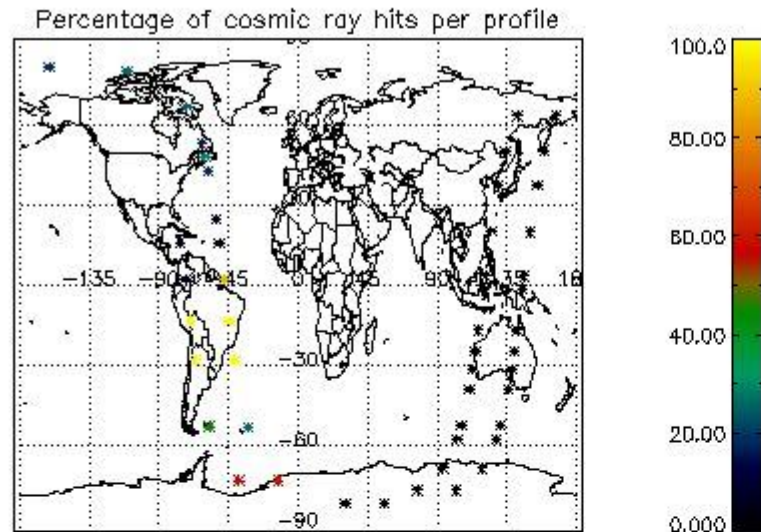
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	10.2041 %
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)



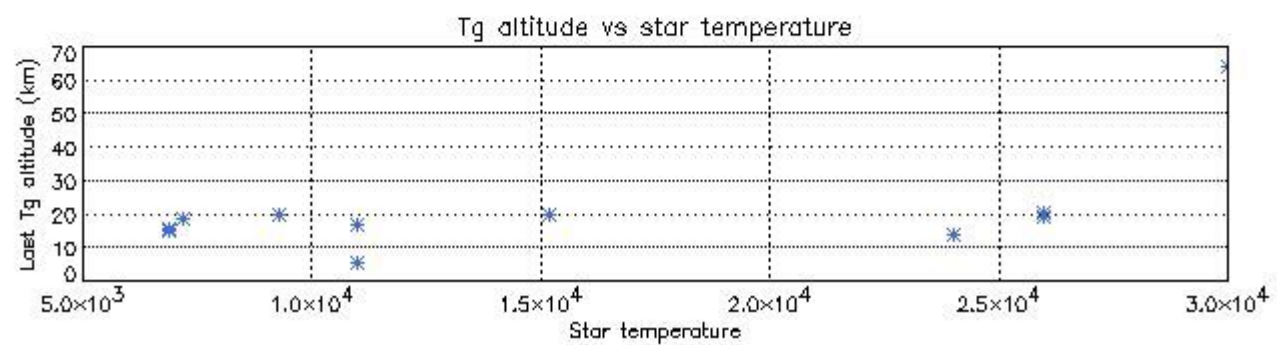
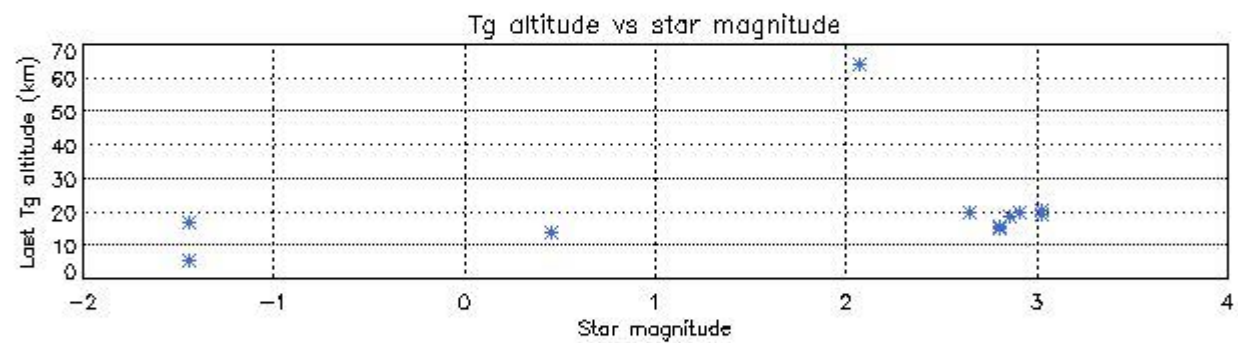
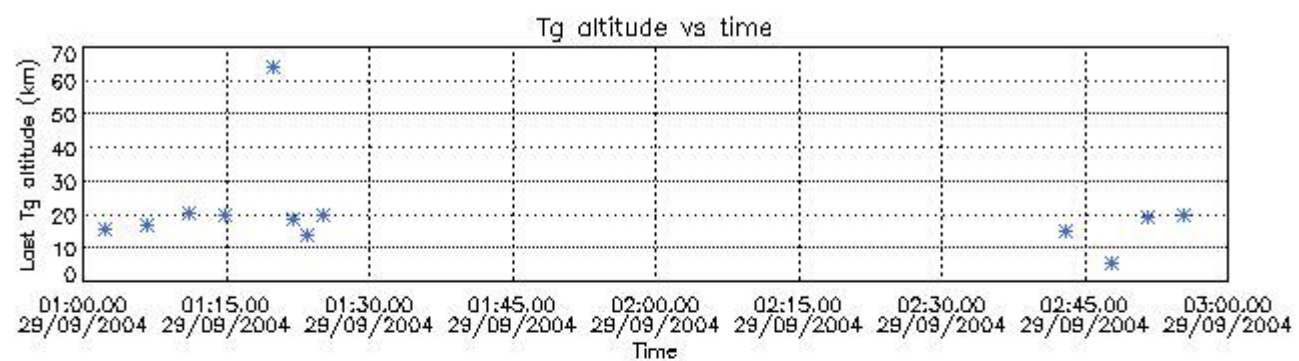
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	20.747	20.042	11.055
St. deviation:	14.311	4.1157	2.3832
Maximum:	64.254	25.181	13.381
Minimum:	5.5494	5.9082	7.7916
Number of data:	12.000	32.000	5.0000

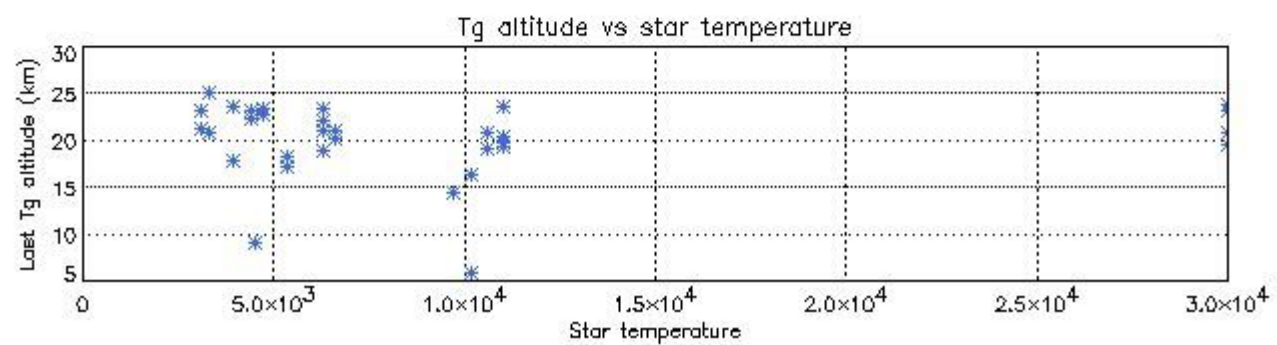
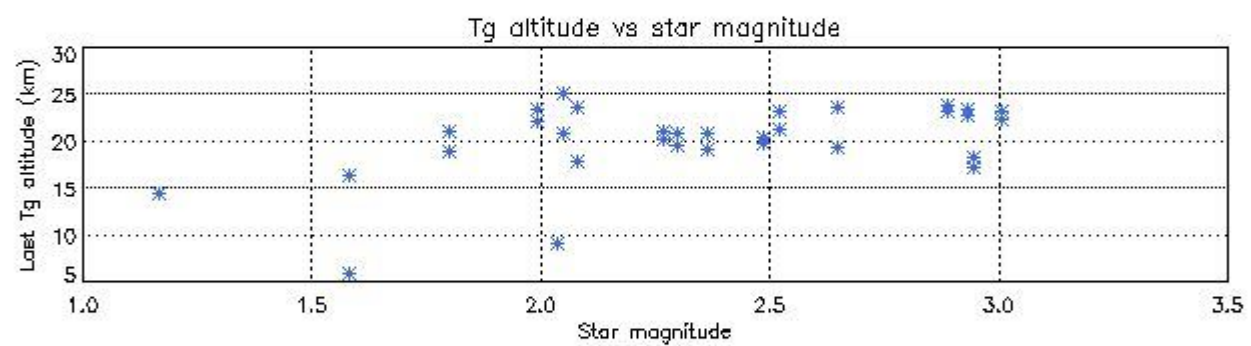
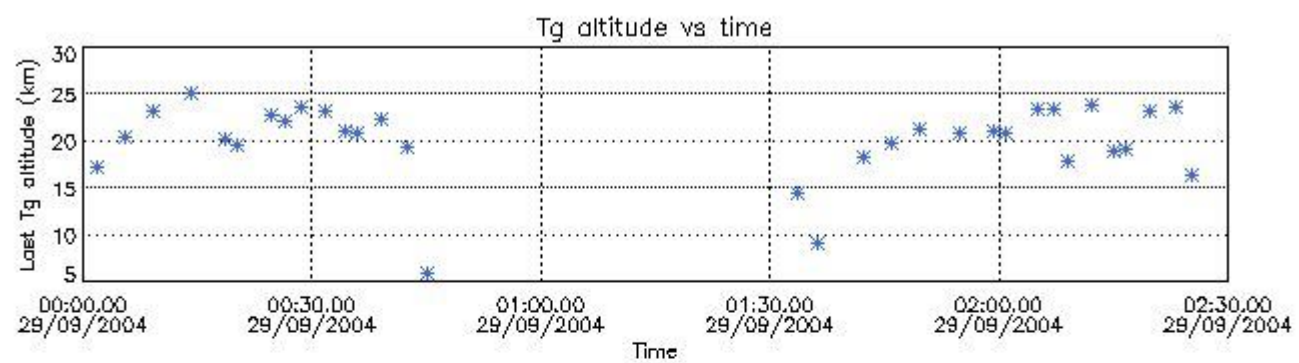
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



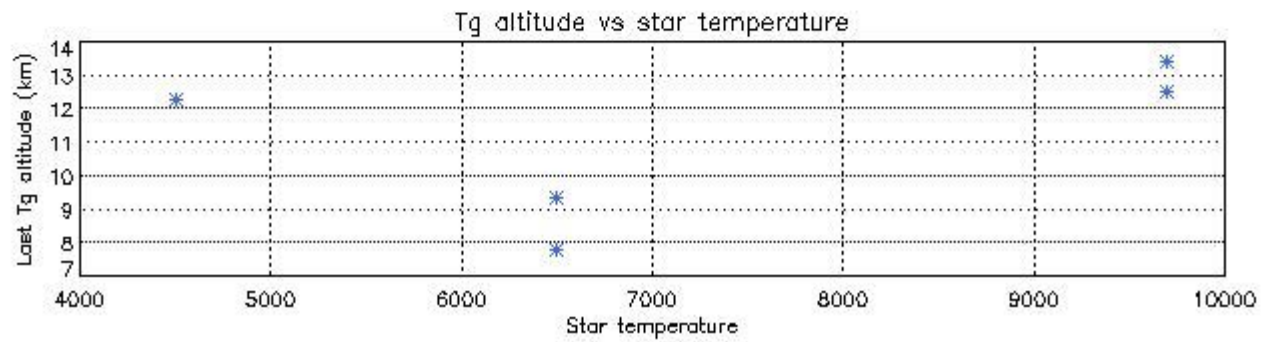
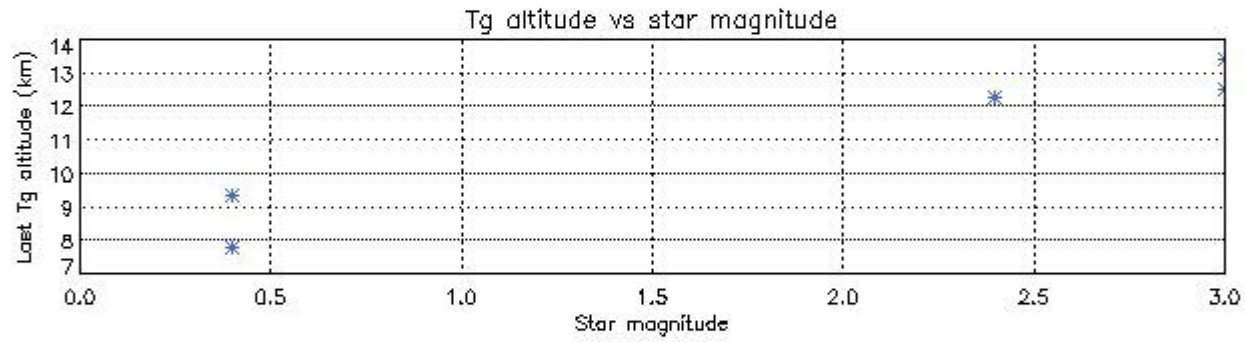
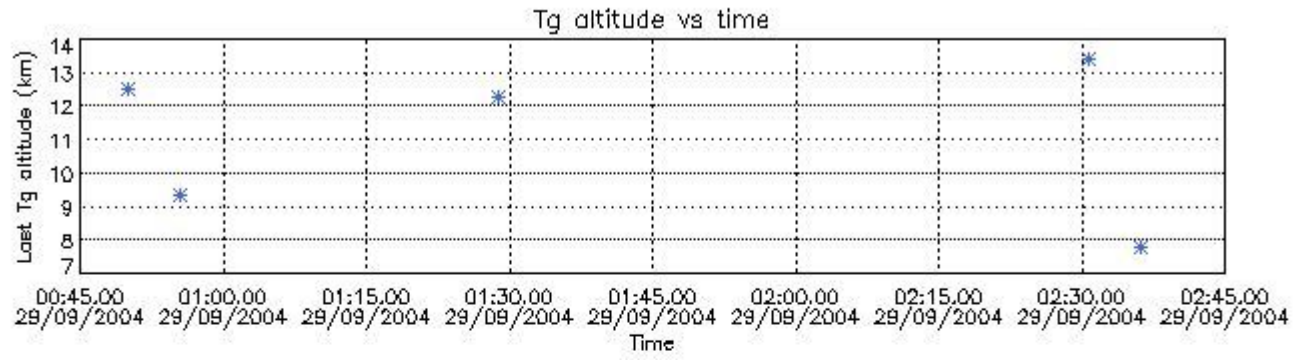
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

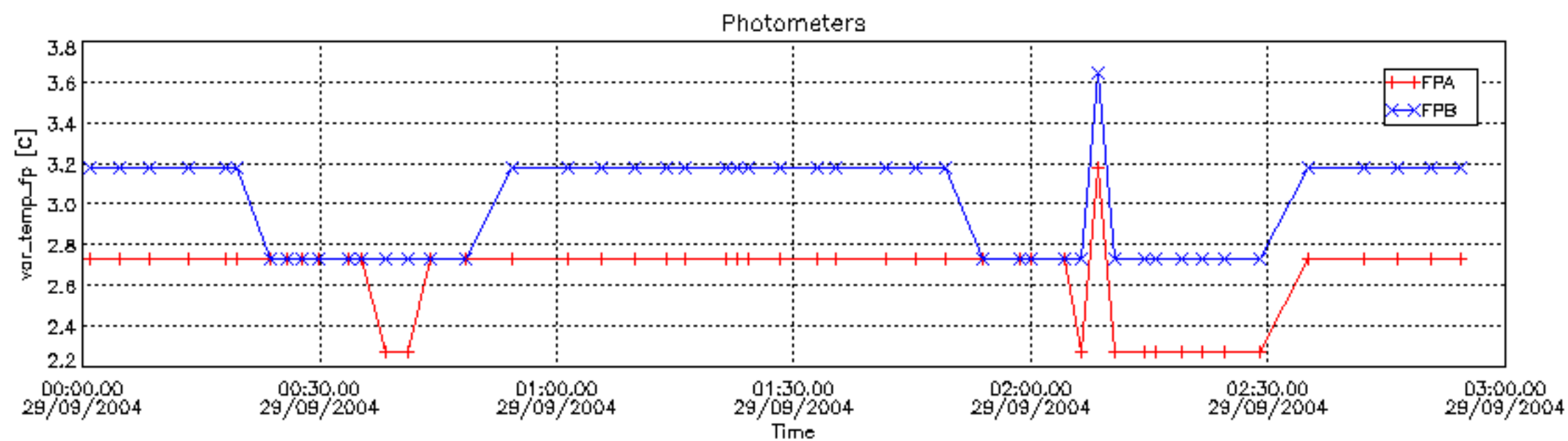
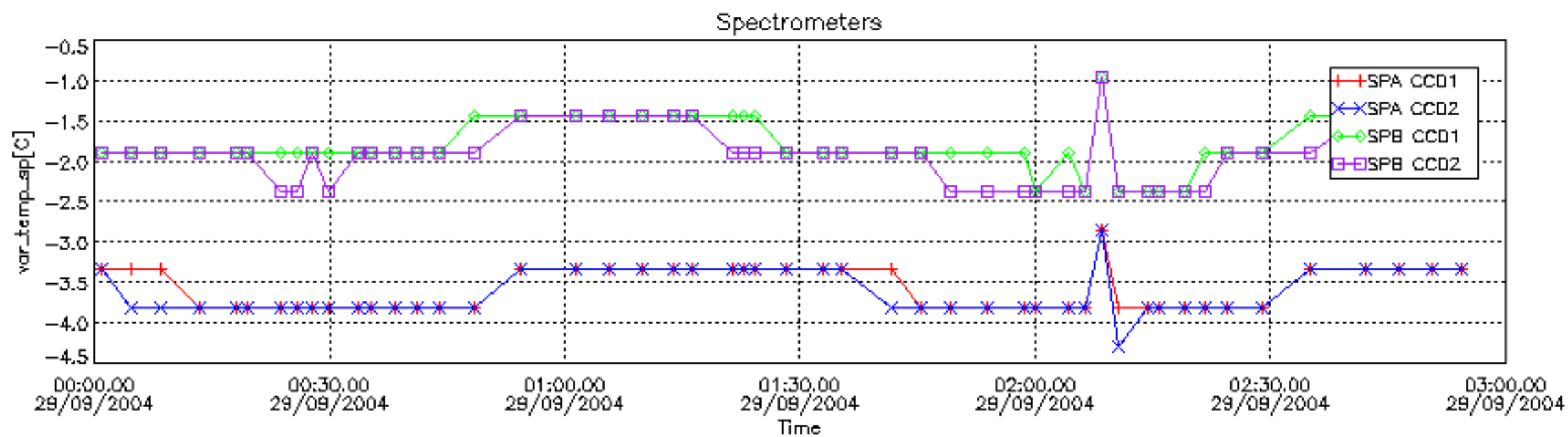
Tangent altitude at which the star is lost

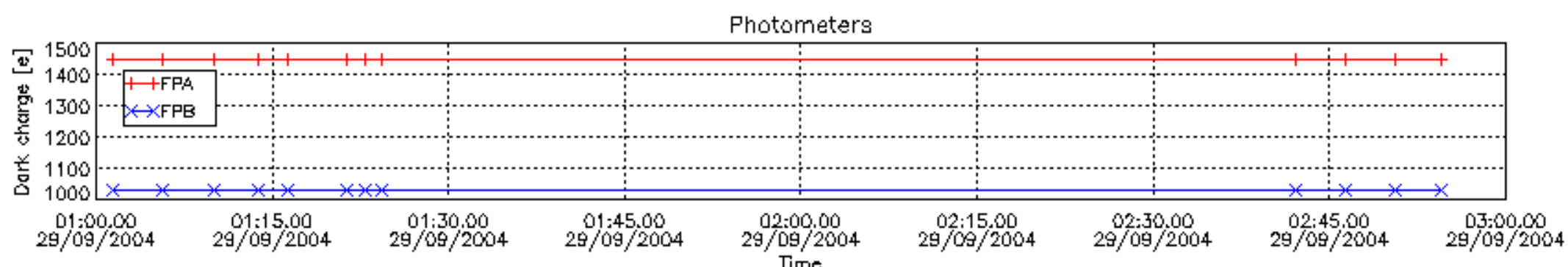
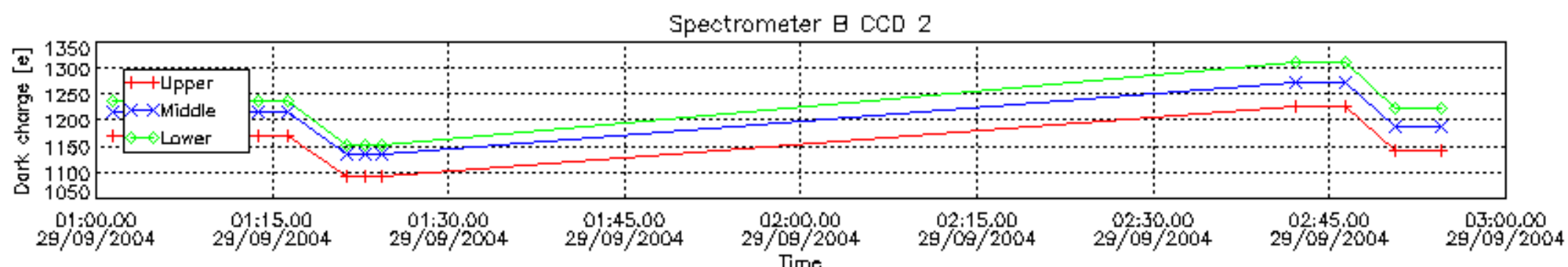
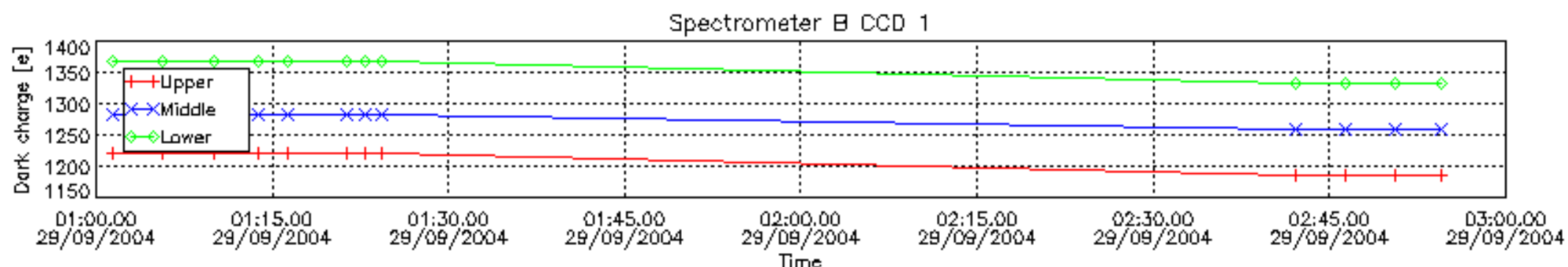
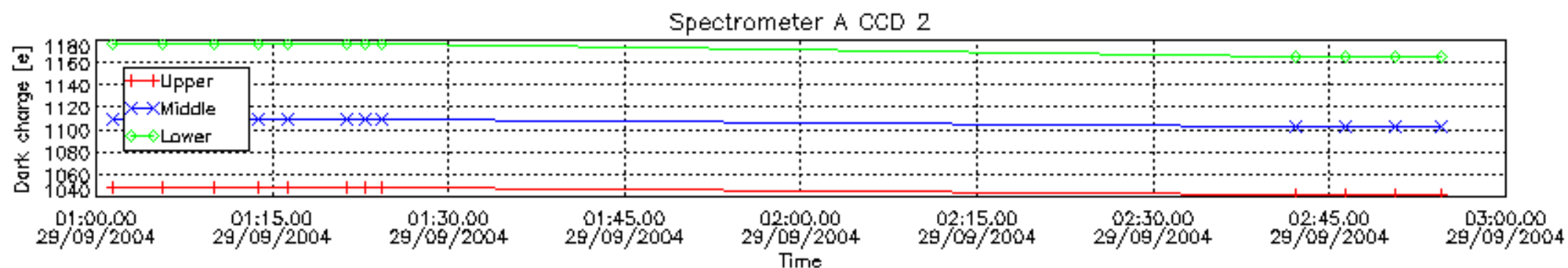
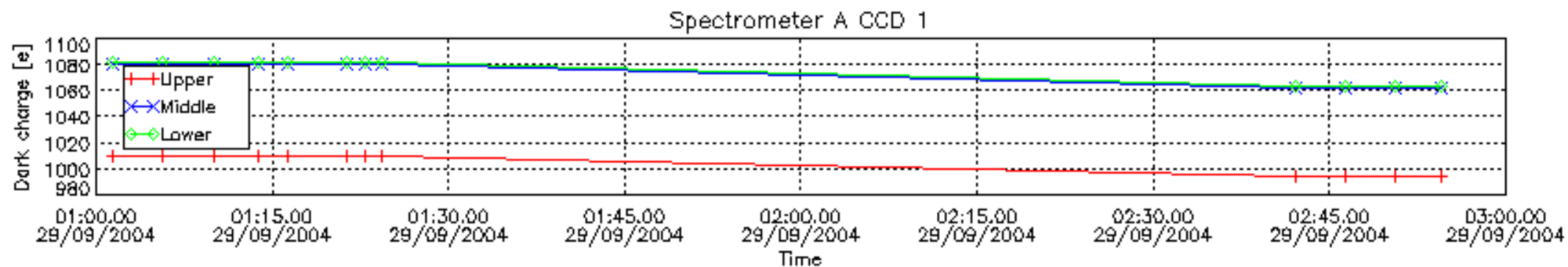


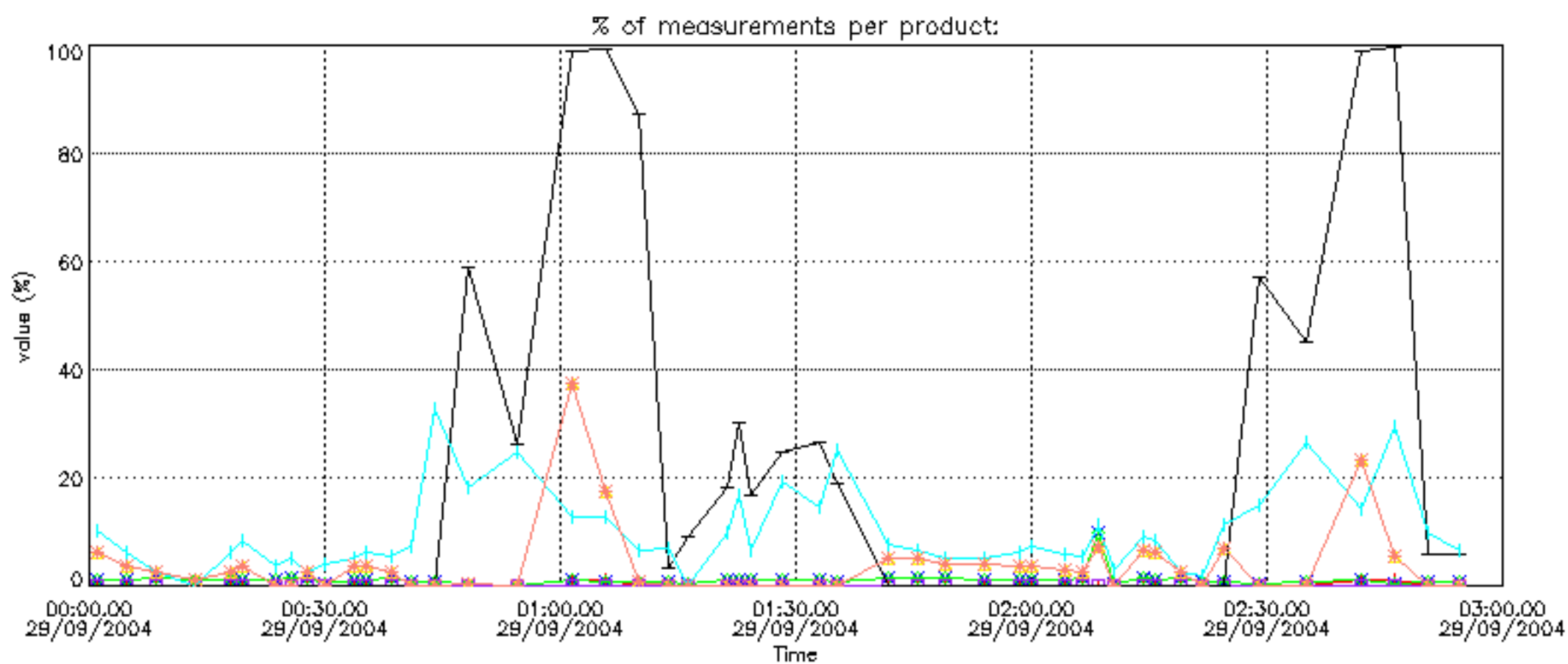
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

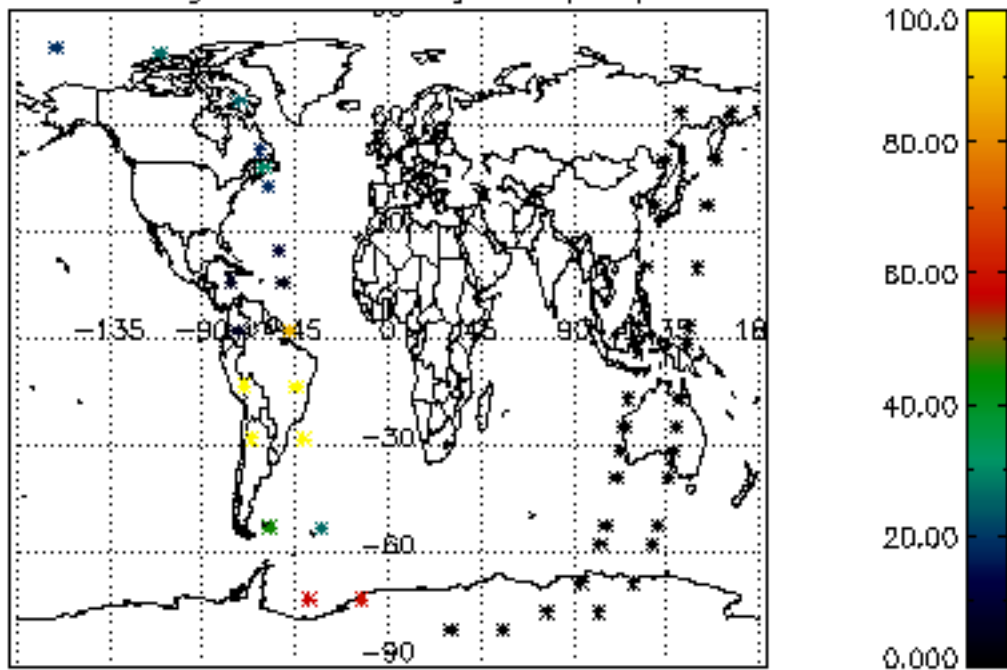
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1463.2	1449.8	1461.4	1448.3
St. deviation:	8.0746	8.8359	6.8670	7.6414
Maximum:	1817.0	1793.0	1522.0	1506.0
Minimum:	1433.0	1414.0	1432.0	1429.0
Number of data:	25000.	25000.	41800.	41800.



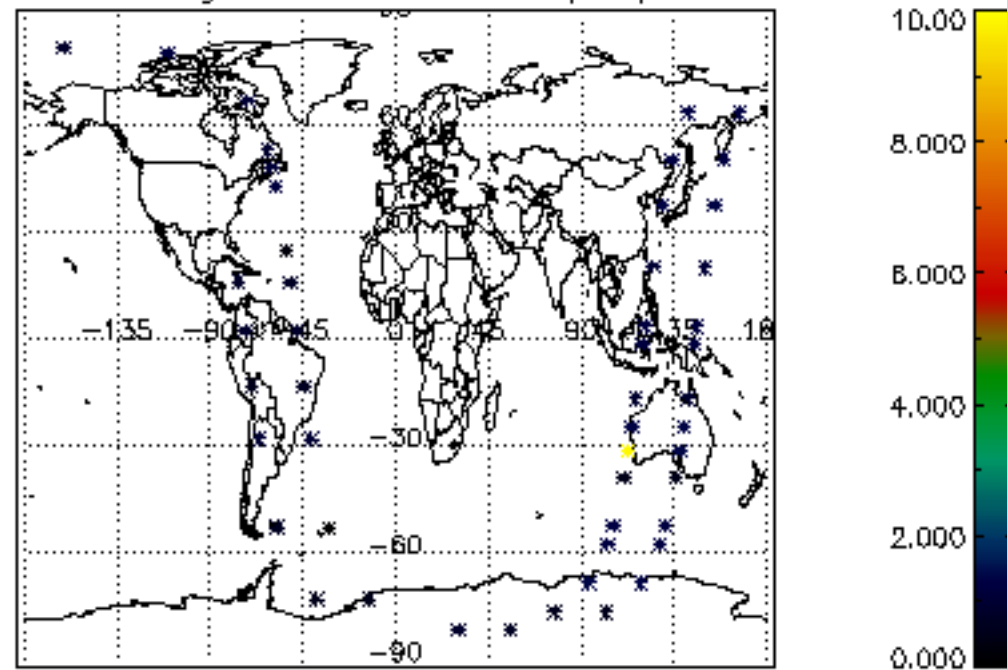




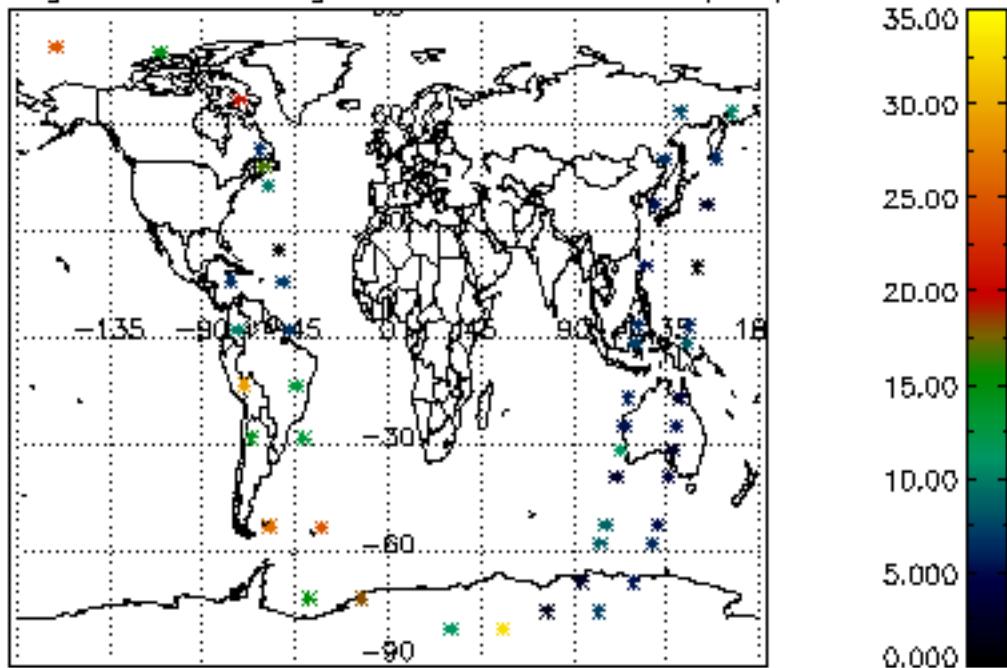
Percentage of cosmic ray hits per profile



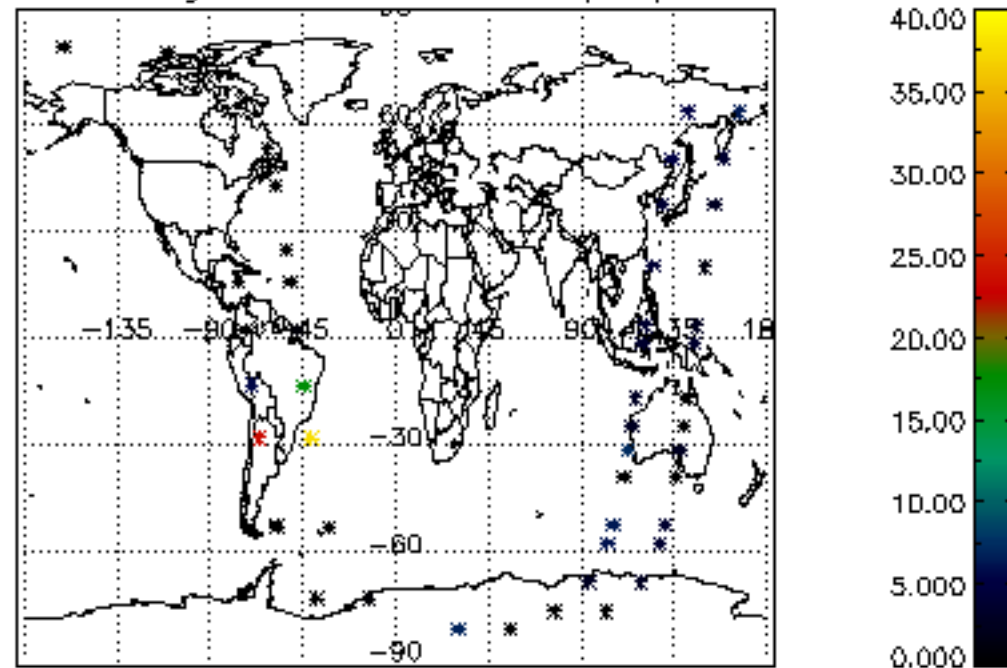
Percentage of datation errors per profile



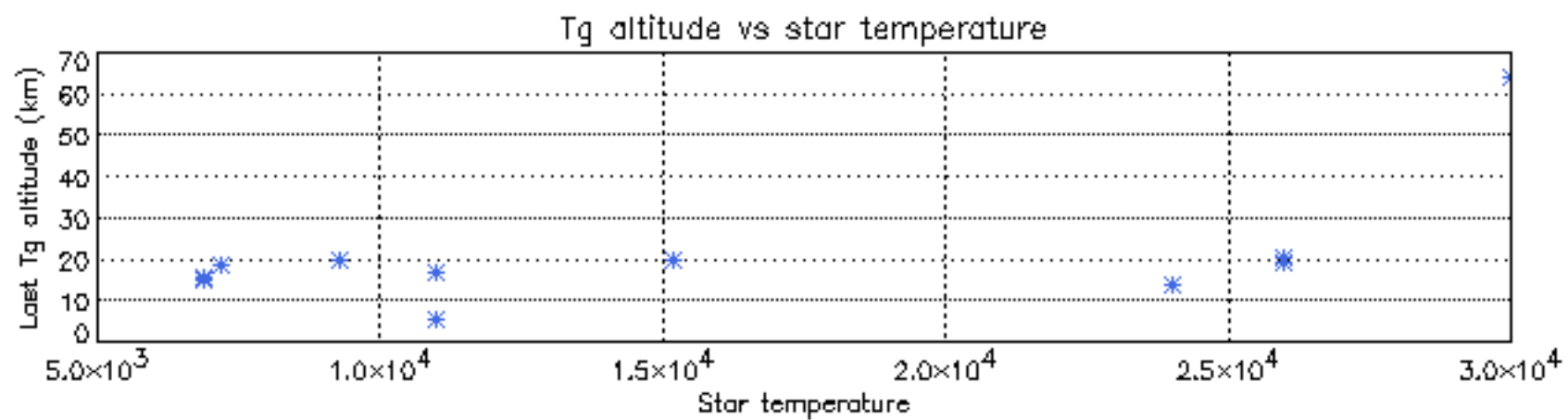
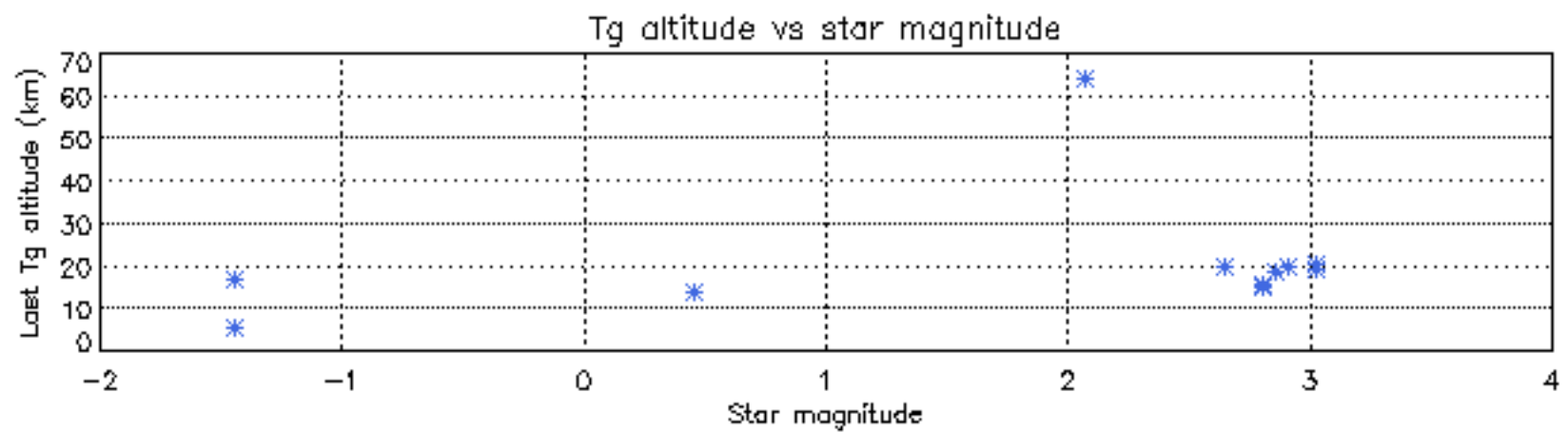
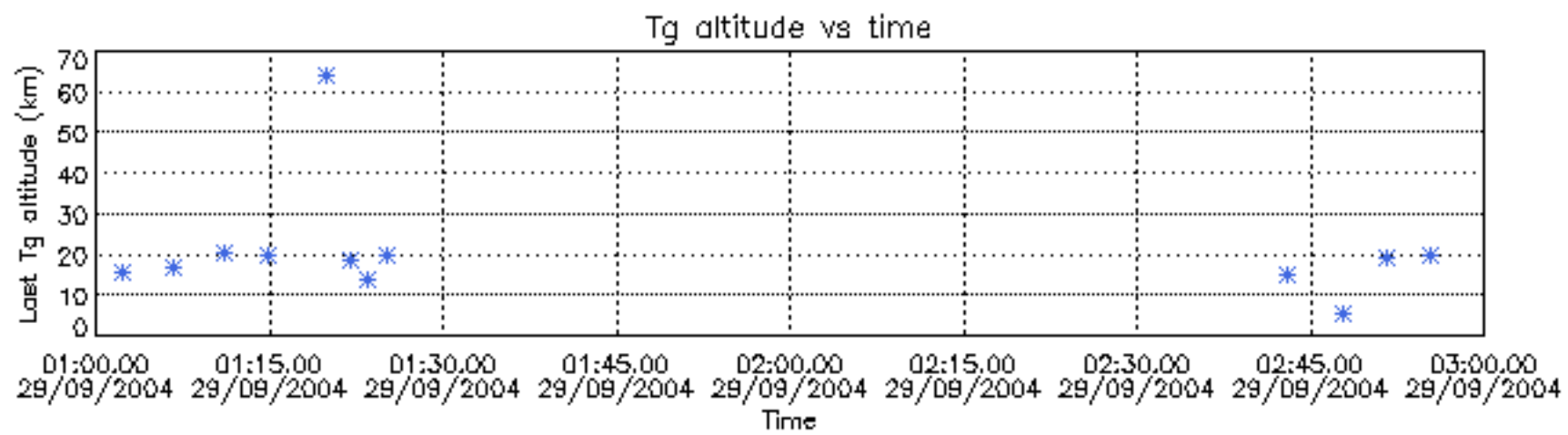
Percentage of star falling outside central band per profile



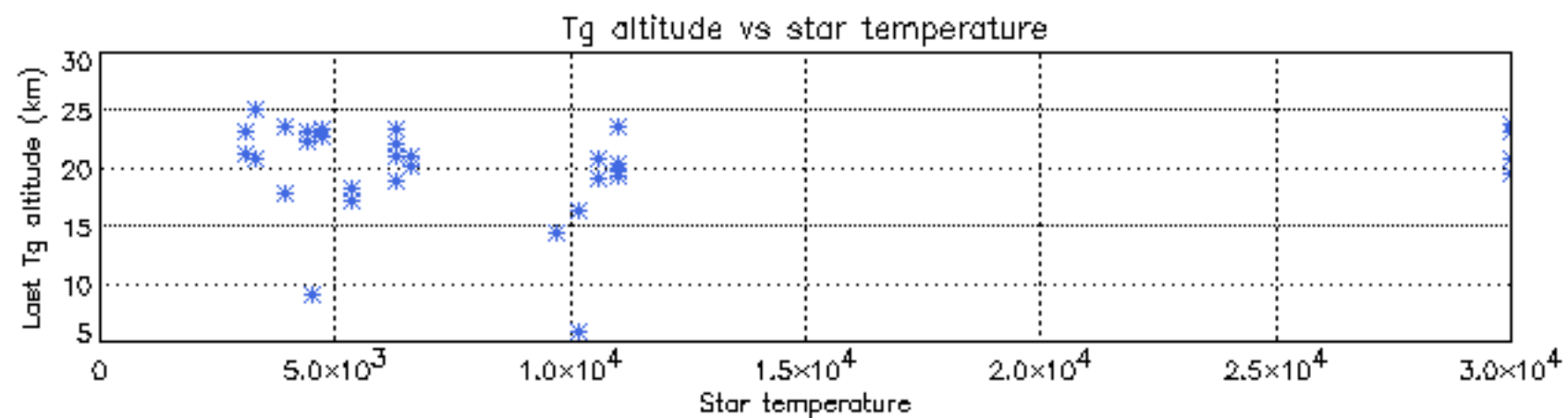
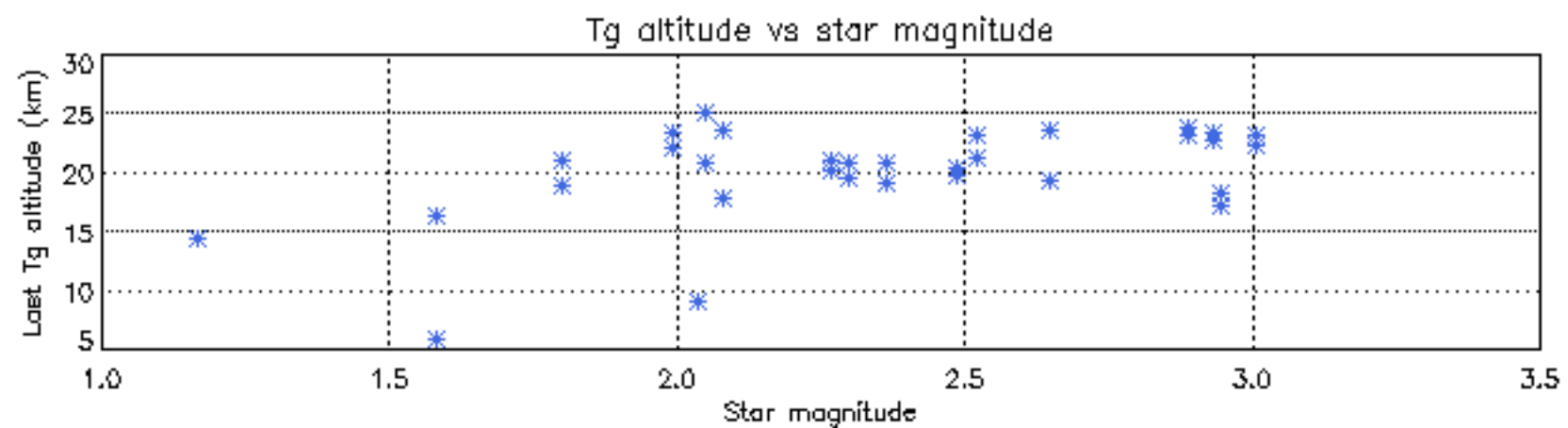
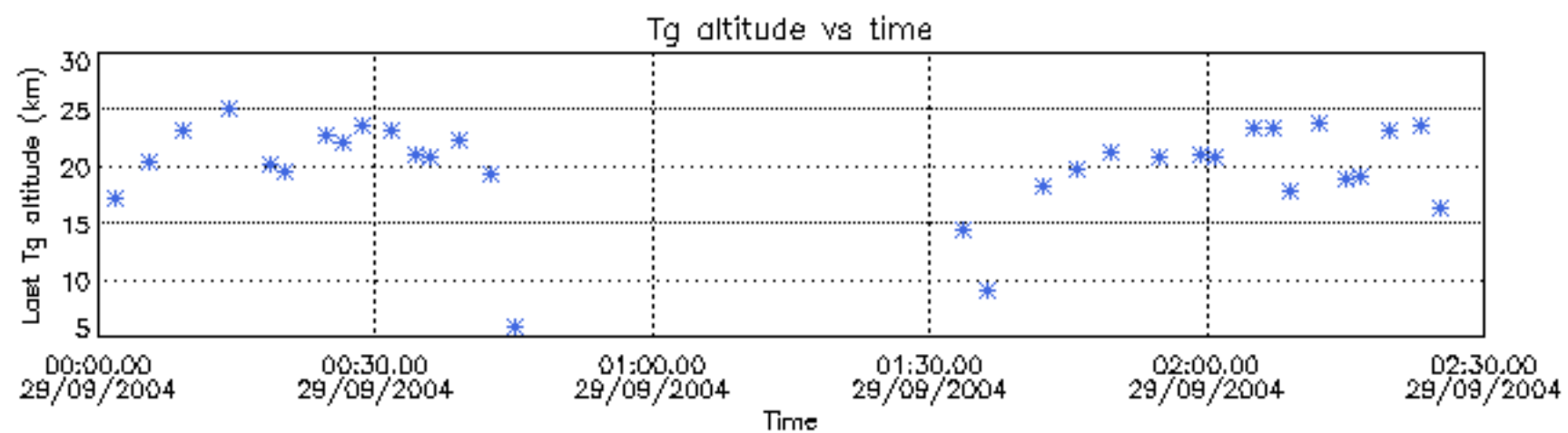
Percentage of saturation errors per profile



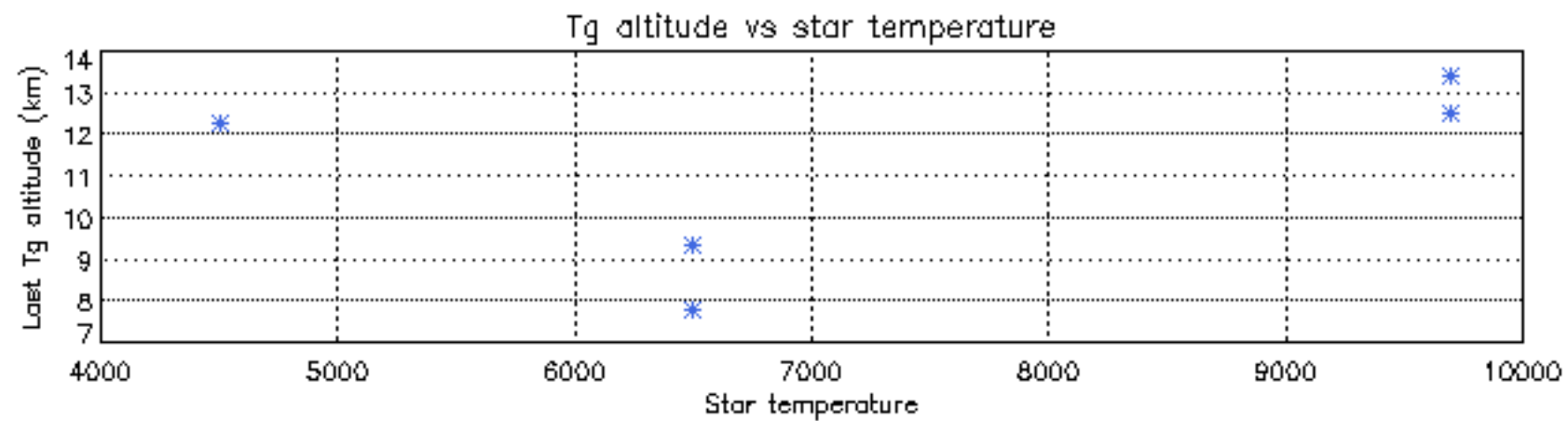
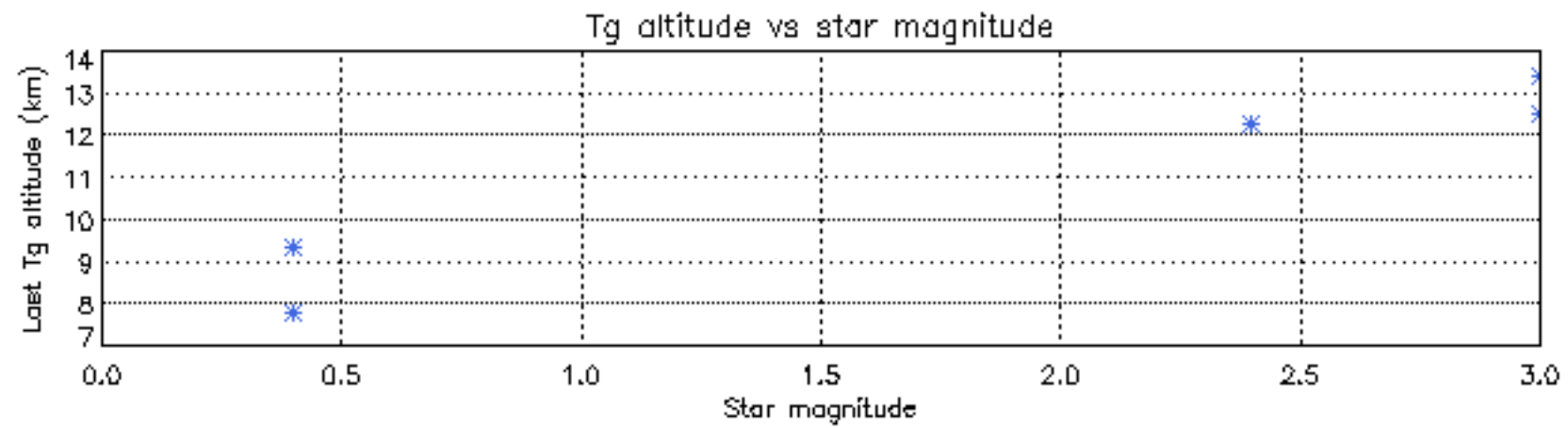
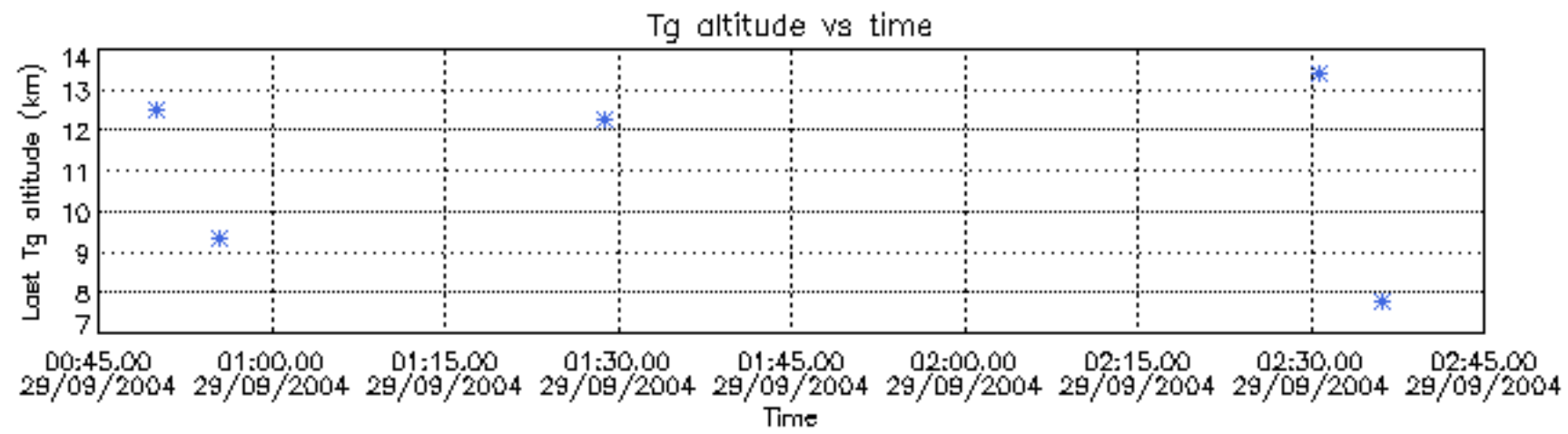
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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6; 527.2; 01-SEP-2004 00:58:03; Dark ; 43.0; 143; Alp Hyi ; 2.86; 7200;occ; 86; 0;13097
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29;	-167.2;	04-SEP-2004	19:18:50;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13150
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32;	637.1;	04-SEP-2004	19:32:14;	Dark	;	56.0;	9;	Alp Eri	;	0.45;	24000;occ;	112;	0;	13151
33;	876.2;	04-SEP-2004	19:36:13;	Dark	;	38.0;	148;	Alp Tuc	;	2.88;	4100;occ;	76;	0;	13151
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7;	31.5;	16-SEP-2004	23:06:17;	Dark	;	57.0;	2;	Alp Car	;	-0.74;	7000;occ;	114;	0;	13325
8;	573.6;	16-SEP-2004	23:15:19;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	13325
9;	728.5;	16-SEP-2004	23:17:54;	Dark	;	47.0;	9;	Alp Eri	;	0.45;	24000;occ;	94;	0;	13325
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11;	1129.9;	16-SEP-2004	23:24:36;	Dark	;	42.5;	31;	Alp Gru	;	1.73;	15200;occ;	85;	0;	13325
12;	1296.7;	16-SEP-2004	23:27:22;	Dark	;	38.5;	172;	Gam Gru	;	3.00;	13100;occ;	77;	0;	13325
13;	1382.3;	16-SEP-2004	23:28:48;	Dark	;	47.0;	18;	24Alp PsA	;	1.17;	9700;occ;	94;	0;	13325
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11;	-2606.9;	19-SEP-2004	09:03:16;	Bright;	;	35.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	71;	0;	13359
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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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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
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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
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20;-1238.7; 30-SEP-2004 20:24:17; Dark ; 100.0; 170; 27Eps Gem ; 3.00; 9700;occ; 200; 0;13523
21;-872.0; 30-SEP-2004 20:30:24; Dark ; 85.0; 8; 10Alp CMi ; 0.40; 6500;occ; 170; 0;13523
22;-449.5; 30-SEP-2004 20:37:26; Dark ; 50.5; 132; 15Rho Pup ; 2.80; 6900;occ; 101; 0;13523
23;-295.1; 30-SEP-2004 20:40:01; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;13523
24;-203.5; 30-SEP-2004 20:41:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13523
25;-97.4; 30-SEP-2004 20:43:19; Dark ; 42.0; 46; De1 Vel ; 1.95; 10600;occ; 84; 0;13523
26; 306.1; 30-SEP-2004 20:50:02; Dark ; 61.0; 108; Alp Col ; 2.65; 15200;occ; 122; 0;13524
27; 602.6; 30-SEP-2004 20:54:58; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;13524
28; 731.1; 30-SEP-2004 20:57:07; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13524
29; 816.0; 30-SEP-2004 20:58:32; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;13524
30; 913.9; 30-SEP-2004 21:00:10; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13524

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