

GOMOS Daily Report 07-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	08SEP2004 05:02:57
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START) (07SEP2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (08SEP2004 00:00:00)

Store outputs flag	0
Nb of level 1b prods	48
Nb of prods with errors	1

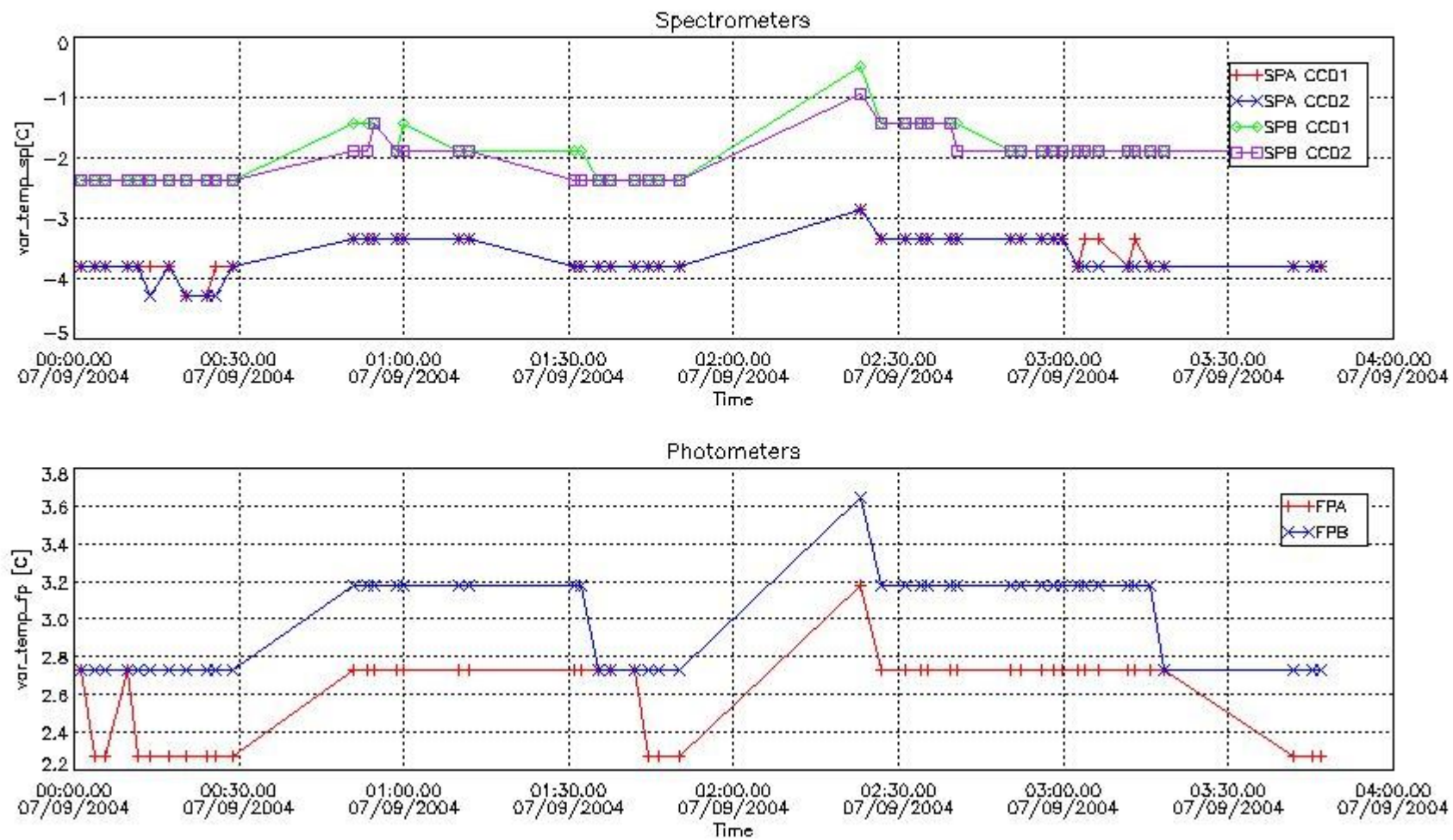
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040907_000113_000000432030_00102_13182_0017.N1	07-SEP-2004 00:01:13	Bright	43.000	164	44Eta Peg	2.9480	5400.0	86	13182	No
GOM_TRA_1PNPDE20040907_000343_000000372030_00102_13182_0018.N1	07-SEP-2004 00:03:43	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	13182	No
GOM_TRA_1PNPDE20040907_000539_000000392030_00102_13182_0019.N1	07-SEP-2004 00:05:39	Bright	39.000	144	18Del Cyg	2.8600	11000.	78	13182	No
GOM_TRA_1PNPDE20040907_000936_000000402030_00102_13182_0020.N1	07-SEP-2004 00:09:36	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	13182	No
GOM_TRA_1PNPDE20040907_001138_000000452030_00102_13182_0021.N1	07-SEP-2004 00:11:38	Bright	45.000	74	11Bet Cas	2.2680	6600.0	90	13182	No
GOM_TRA_1PNPDE20040907_001339_000000472030_00102_13182_0022.N1	07-SEP-2004 00:13:39	Bright	47.000	76	27Gam Cas	2.3000	30000.	94	13182	No
GOM_TRA_1PNPDE20040907_001719_000000382030_00102_13182_0023.N1	07-SEP-2004 00:17:19	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	13182	No
GOM_TRA_1PNPDE20040907_002030_000000612030_00102_13182_0024.N1	07-SEP-2004 00:20:30	Bright	61.000	160	23Gam Per	2.9300	4700.0	122	13182	No
GOM_TRA_1PNPDE20040907_002412_000000382030_00102_13182_0025.N1	07-SEP-2004 00:24:12	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	13182	No
GOM_TRA_1PNPDE20040907_002535_000000362030_00102_13182_0026.N1	07-SEP-2004 00:25:35	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	13182	No
GOM_TRA_1PNPDE20040907_002858_000000622030_00102_13182_0027.N1	07-SEP-2004 00:28:58	Bright	61.500	6	13Alp Aur	0.080000	3400.0	123	13182	No
GOM_TRA_1PNPDE20040907_005043_000000572030_00102_13182_0000.N1	07-SEP-2004 00:50:43	Dark	57.000	1	9Alp CMa	-1.4400	11000.	114	13182	No
GOM_TRA_1PNPDE20040907_005319_000000462030_00102_13182_0001.N1	07-SEP-2004 00:53:19	Dark	45.500	23	21Eps CMa	1.5020	26000.	91	13182	No
GOM_TRA_1PNPDE20040907_005442_000000512030_00102_13182_0002.N1	07-SEP-2004 00:54:42	Dark	51.000	117	Pi Pup	2.7060	3800.0	102	13182	No
GOM_TRA_1PNPDE20040907_005843_000000422030_00102_13182_0003.N1	07-SEP-2004 00:58:43	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	13182	No
GOM_TRA_1PNPDE20040907_005954_000000552030_00102_13182_0004.N1	07-SEP-2004 00:59:54	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	13182	No
GOM_TRA_1PNPDE20040907_010953_000000402030_00103_13183_0005.N1	07-SEP-2004 01:09:53	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	13183	No
GOM_TRA_1PNPDE20040907_011141_000000562030_00103_13183_0006.N1	07-SEP-2004 01:11:41	Dark	55.500	9	Alp Eri	0.45300	24000.	111	13183	No
GOM_TRA_1PNPDE20040907_013101_000000402030_00103_13183_0013.N1	07-SEP-2004 01:31:01	Bright	40.000	154	22Bet Aqr	2.8990	5700.0	80	13183	No
GOM_TRA_1PNPDE20040907_013219_000000412030_00103_13183_0014.N1	07-SEP-2004 01:32:19	Bright	41.000	162	34Alp Aqr	2.9440	5350.0	82	13183	No
GOM_TRA_1PNPDE20040907_013517_000000412030_00103_13183_0015.N1	07-SEP-2004 01:35:17	Bright	41.000	61	8Eps Peg	2.1000	3900.0	82	13183	No
GOM_TRA_1PNPDE20040907_013735_000000462030_00103_13183_0016.N1	07-SEP-2004 01:37:35	Bright	45.500	90	54Alp Peg	2.4870	11000.	91	13183	No
GOM_TRA_1PNPDE20040907_014148_000000432030_00103_13183_0017.N1	07-SEP-2004 01:41:48	Bright	43.000	164	44Eta Peg	2.9480	5400.0	86	13183	No
GOM_TRA_1PNPDE20040907_014419_000000372030_00103_13183_0018.N1	07-SEP-2004 01:44:19	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	13183	No
GOM_TRA_1PNPDE20040907_014615_000000372030_00103_13183_0019.N1	07-SEP-2004 01:46:15	Bright	36.500	144	18Del Cyg	2.8600	11000.	73	13183	No
GOM_TRA_1PNPDE20040907_015013_000000392030_00103_13183_0020.N1	07-SEP-2004 01:50:13	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	13183	No
GOM_TRA_1PNPDE20040907_022311_000000572030_00103_13183_0000.N1	07-SEP-2004 02:23:11	Twilight	57.000	8	10Alp CMi	0.40000	6500.0	114	13183	Yes
GOM_TRA_1PNPDE20040907_022643_000000832030_00103_13183_0001.N1	07-SEP-2004 02:26:43	Dark	83.000	14	58Alp Ori	0.87000	3000.0	166	13183	No
GOM_TRA_1PNPDE20040907_023122_000000562030_00103_13183_0002.N1	07-SEP-2004 02:31:22	Dark	56.000	1	9Alp CMa	-1.4400	11000.	112	13183	No
GOM_TRA_1PNPDE20040907_023354_000000482030_00103_13183_0003.N1	07-SEP-2004 02:33:54	Dark	48.000	23	21Eps CMa	1.5020	26000.	96	13183	No
GOM_TRA_1PNPDE20040907_023517_000000472030_00103_13183_0004.N1	07-SEP-2004 02:35:17	Dark	46.500	117	Pi Pup	2.7060	3800.0	93	13183	No
GOM_TRA_1PNPDE20040907_023919_000000422030_00103_13183_0005.N1	07-SEP-2004 02:39:19	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	13183	No
GOM_TRA_1PNPDE20040907_024033_000000552030_00103_13183_0006.N1	07-SEP-2004 02:40:33	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	13183	No
GOM_TRA_1PNPDE20040907_025029_000000392030_00104_13184_0007.N1	07-SEP-2004 02:50:29	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	13184	No
GOM_TRA_1PNPDE20040907_025217_000000502030_00104_13184_0008.N1	07-SEP-2004 02:52:17	Dark	50.000	9	Alp Eri	0.45300	24000.	100	13184	No
GOM_TRA_1PNPDE20040907_025603_000000422030_00104_13184_0009.N1	07-SEP-2004 02:56:03	Dark	41.500	148	Alp Tuc	2.8780	4100.0	83	13184	No
GOM_TRA_1PNPDE20040907_025811_000000512030_00104_13184_0010.N1	07-SEP-2004 02:58:11	Twilight	50.500	84	Alp Phe	2.3970	4500.0	101	13184	No
GOM_TRA_1PNPDE20040907_025945_000000432030_00104_13184_0011.N1	07-SEP-2004 02:59:45	Twilight	43.000	31	Alp Gru	1.7340	15200.	86	13184	No
GOM_TRA_1PNPDE20040907_030233_000000412030_00104_13184_0012.N1	07-SEP-2004 03:02:33	Bright	41.000	172	Gam Gru	3.0030	13100.	82	13184	No
GOM_TRA_1PNPDE20040907_030352_000000492030_00104_13184_0013.N1	07-SEP-2004 03:03:52	Bright	49.000	18	24Alp PsA	1.1660	9700.0	98	13184	No
GOM_TRA_1PNPDE20040907_030629_000000712030_00104_13184_0014.N1	07-SEP-2004 03:06:29	Bright	71.000	52	16Bet Cet	2.0370	4500.0	142	13184	No
GOM_TRA_1PNPDE20040907_031137_000000402030_00104_13184_0015.N1	07-SEP-2004 03:11:37	Bright	40.000	154	22Bet Aqr	2.8990	5700.0	80	13184	No
GOM_TRA_1PNPDE20040907_031256_000000402030_00104_13184_0016.N1	07-SEP-2004 03:12:56	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	13184	No
GOM_TRA_1PNPDE20040907_031554_000000402030_00104_13184_0017.N1	07-SEP-2004 03:15:54	Bright	39.500	61	8Eps Peg	2.1000	3900.0	79	13184	No
GOM_TRA_1PNPDE20040907_031810_000000442030_00104_13184_0018.N1	07-SEP-2004 03:18:10	Bright	44.000	90	54Alp Peg	2.4870	11000.	88	13184	No
GOM_TRA_1PNPDE20040907_034140_000000592030_00104_13184_0000.N1	07-SEP-2004 03:41:40	Bright	58.500	160	23Gam Per	2.9300	4700.0	117	13184	No
GOM_TRA_1PNPDE20040907_034523_000000392030_00104_13184_0001.N1	07-SEP-2004 03:45:23	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	13184	No
GOM_TRA_1PNPDE20040907_034648_000000532030_00104_13184_0002.N1	07-SEP-2004 03:46:48	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	13184	No

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



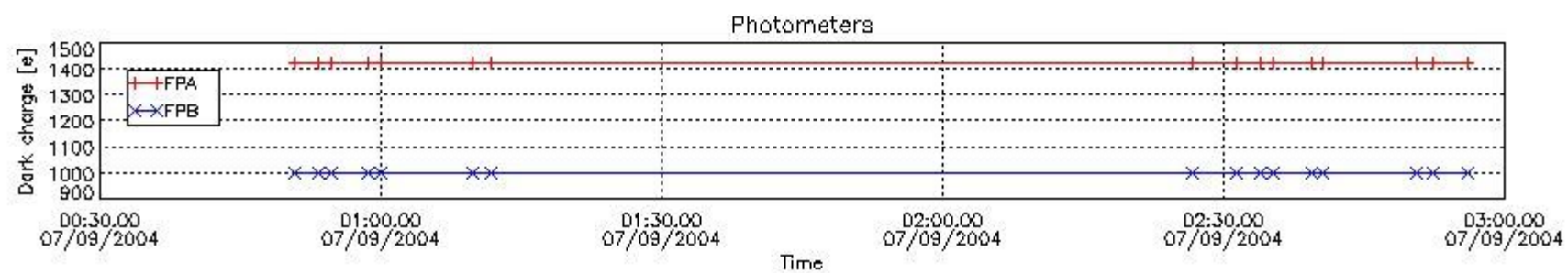
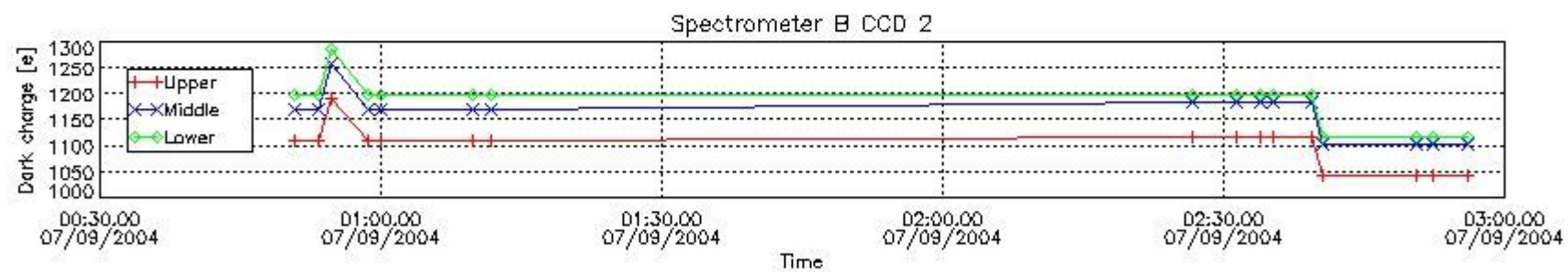
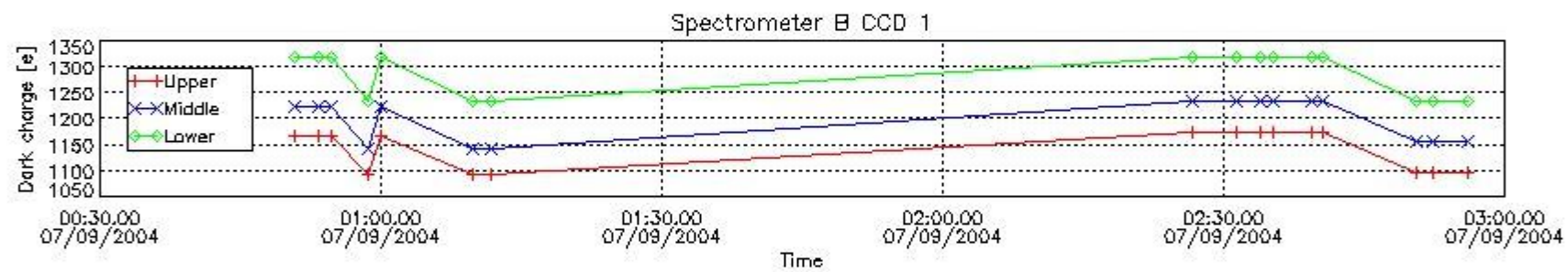
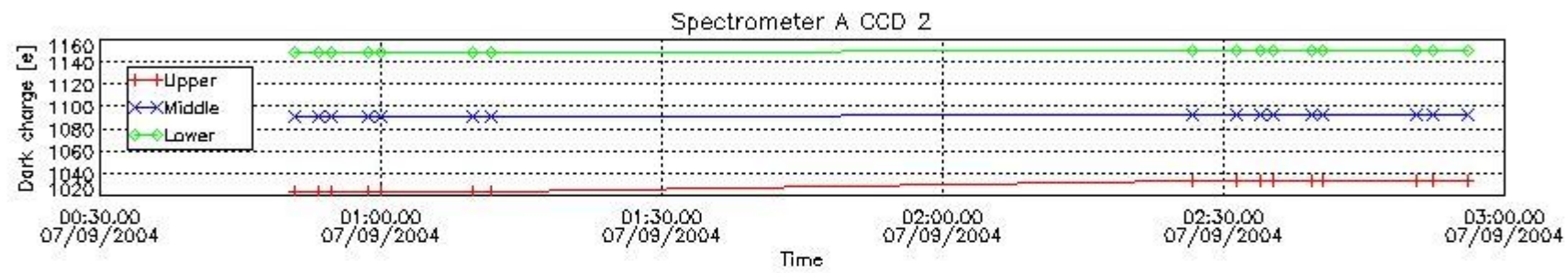
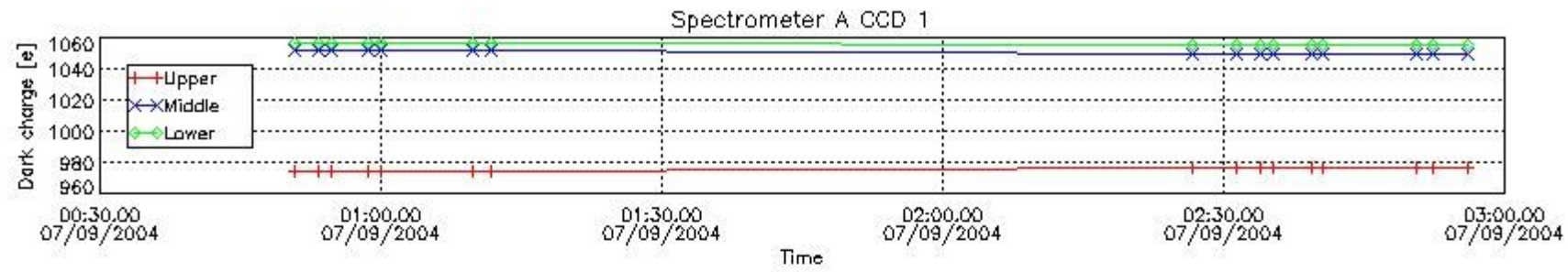
4. Overview of dark signal processing per product

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



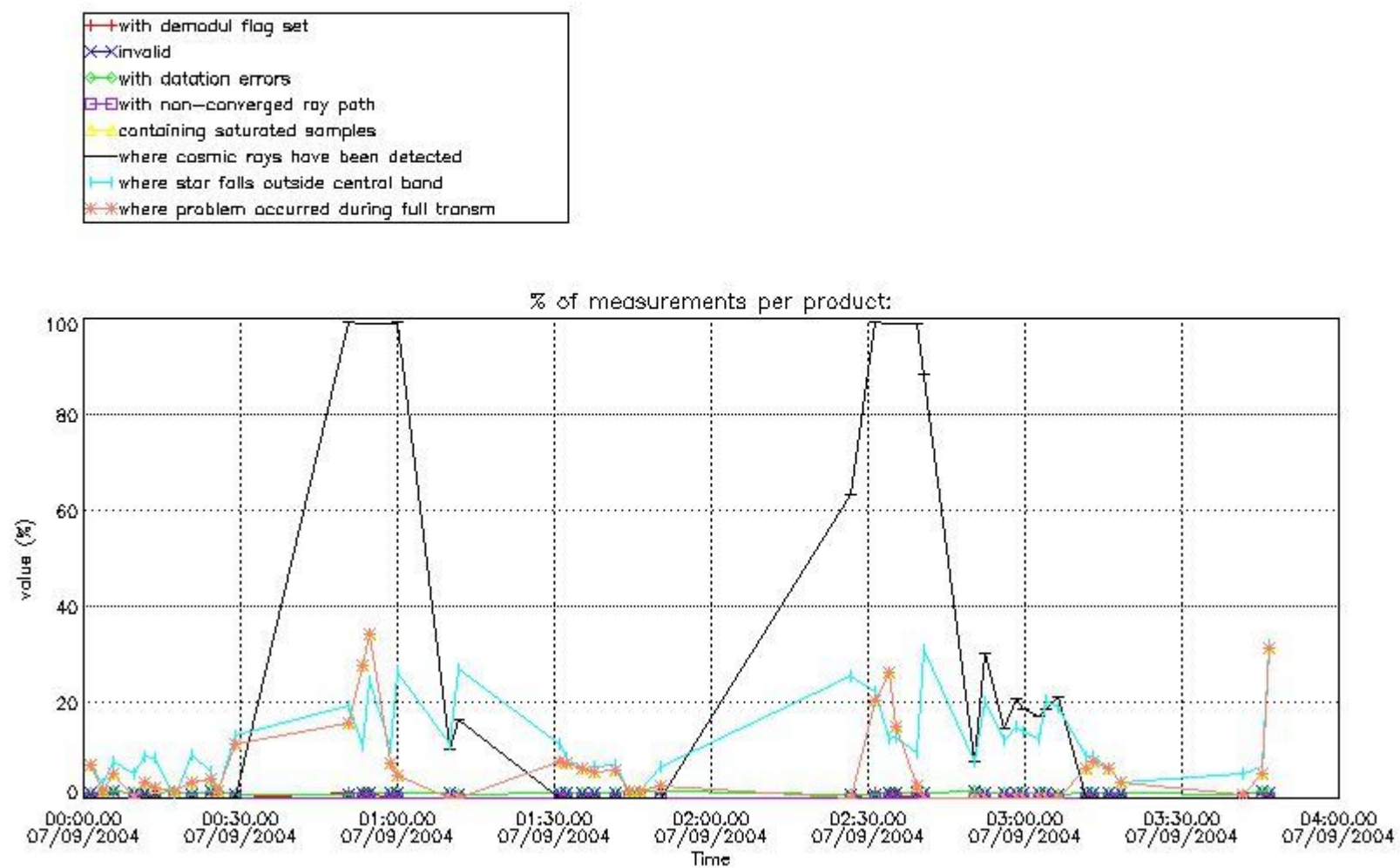
5. Demodulation flag and quality information monitoring

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.

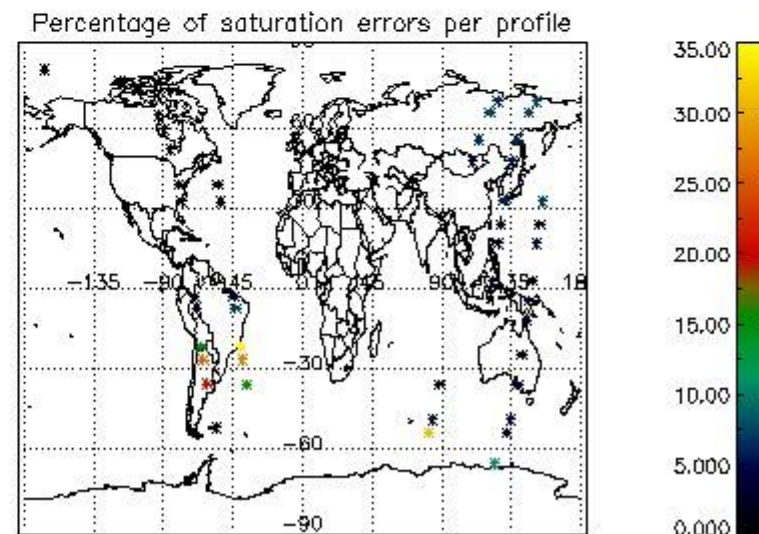
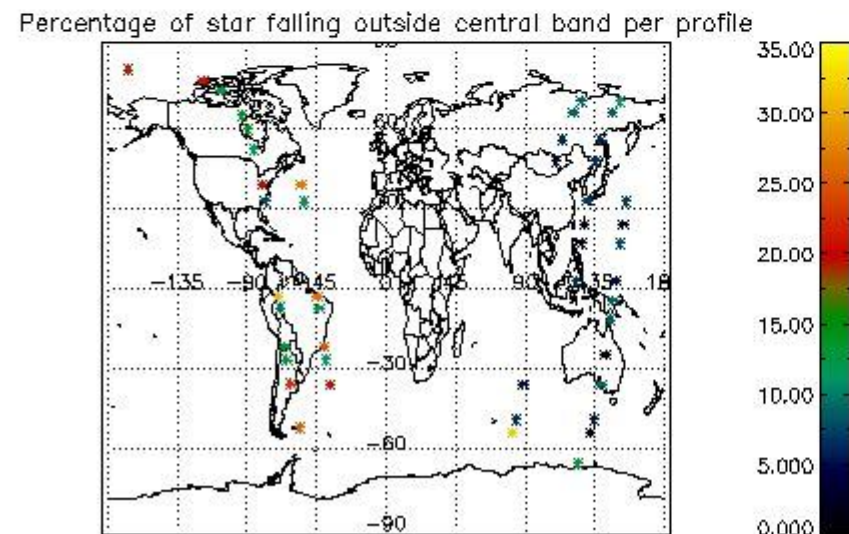
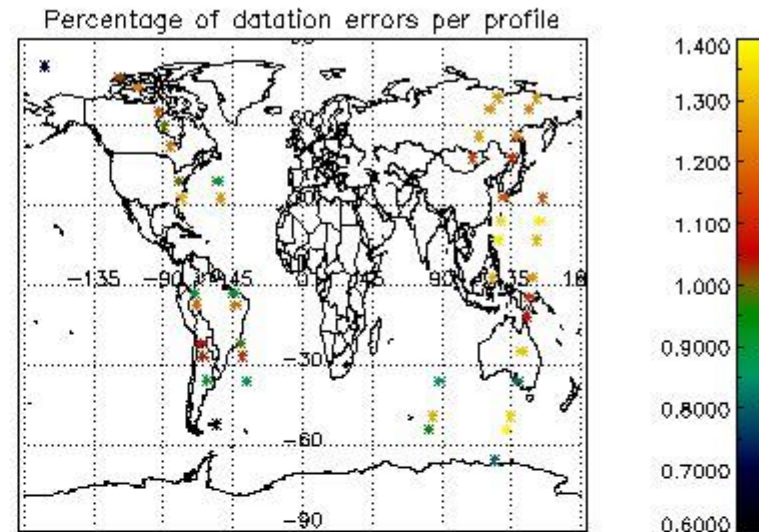
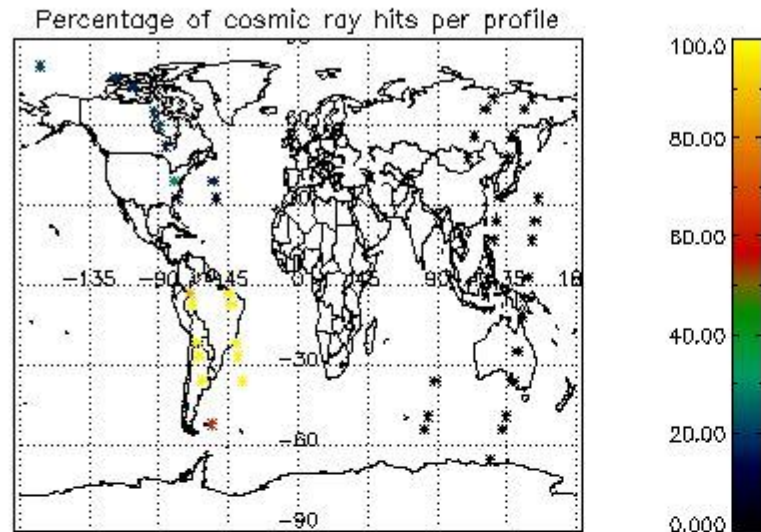
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	21.2766 %
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)



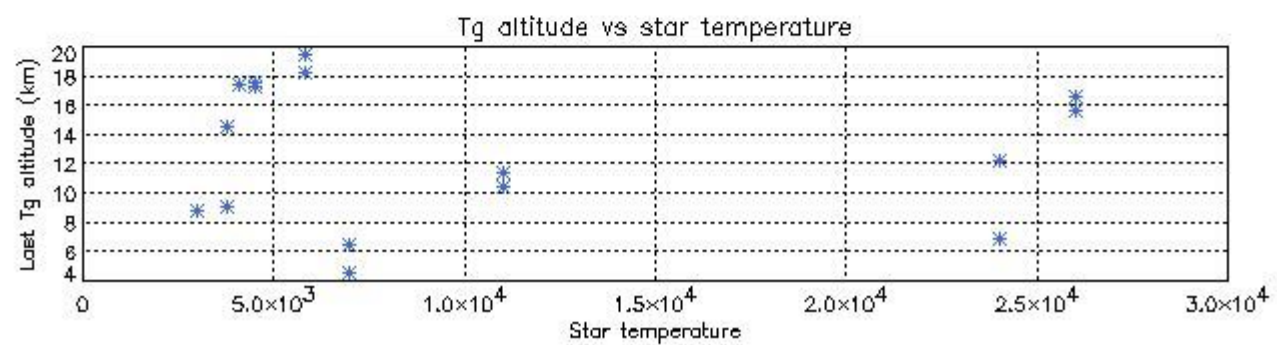
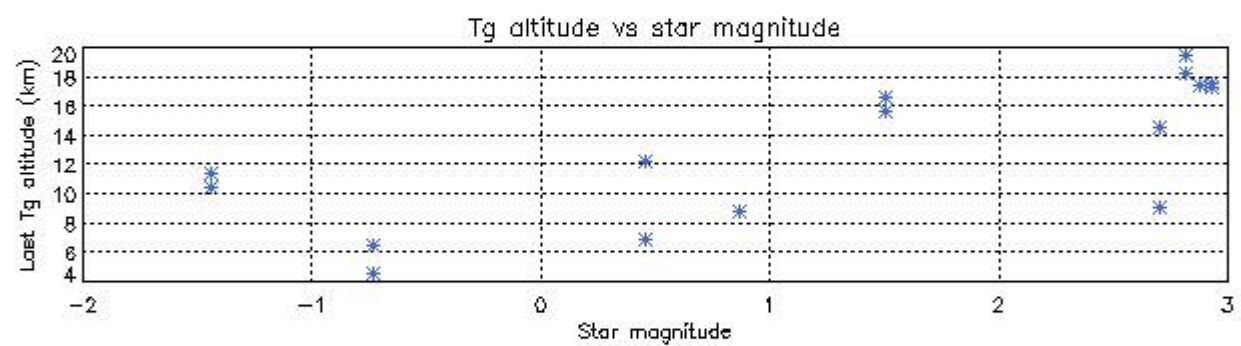
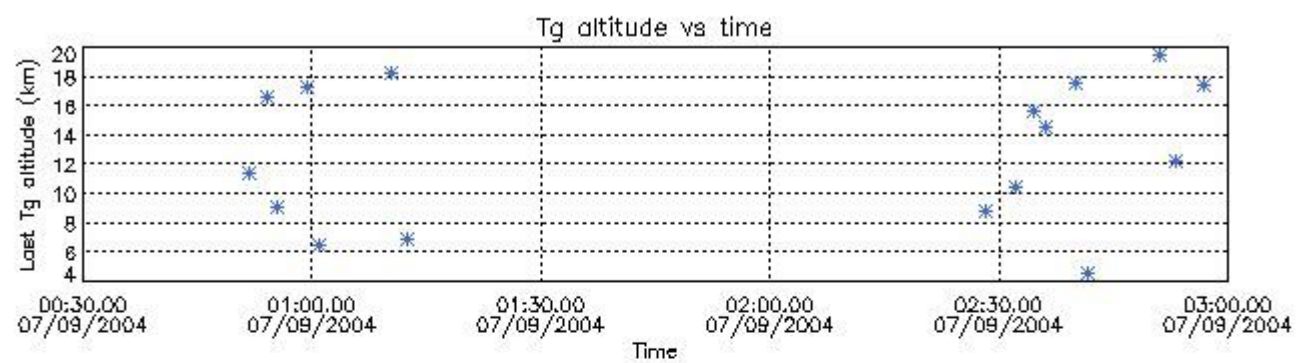
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.911	19.520	14.961
St. deviation:	4.7920	4.5181	0.51916
Maximum:	19.512	26.256	15.328
Minimum:	4.5453	5.0016	14.594
Number of data:	16.000	29.000	2.0000

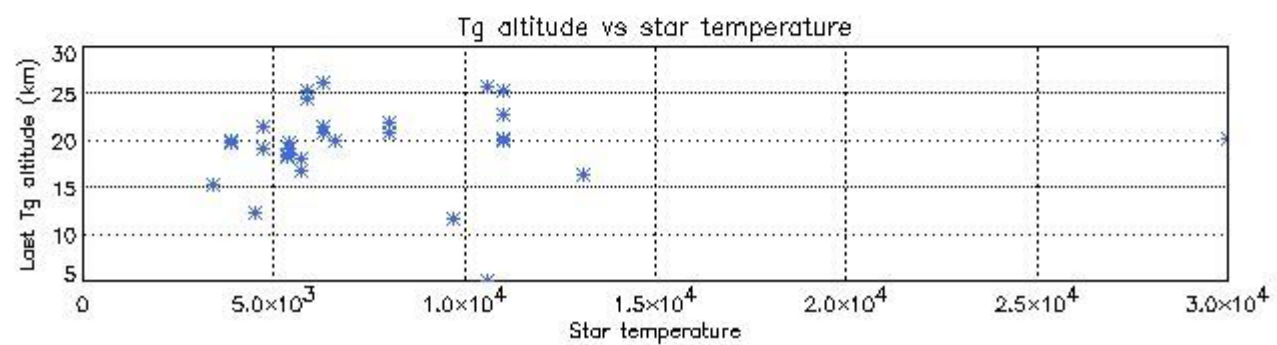
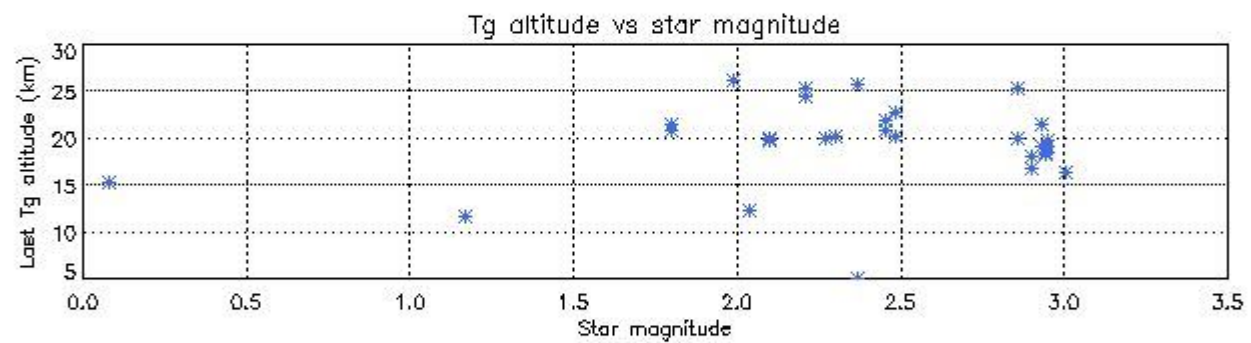
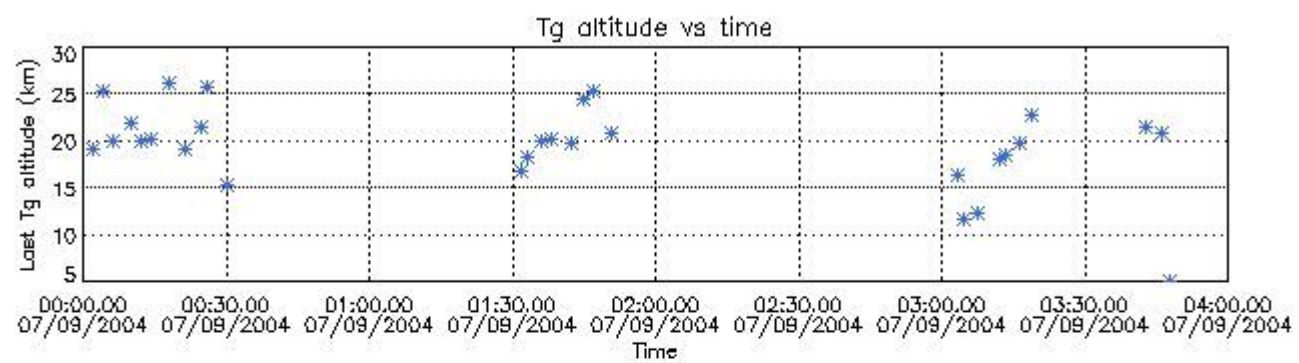
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



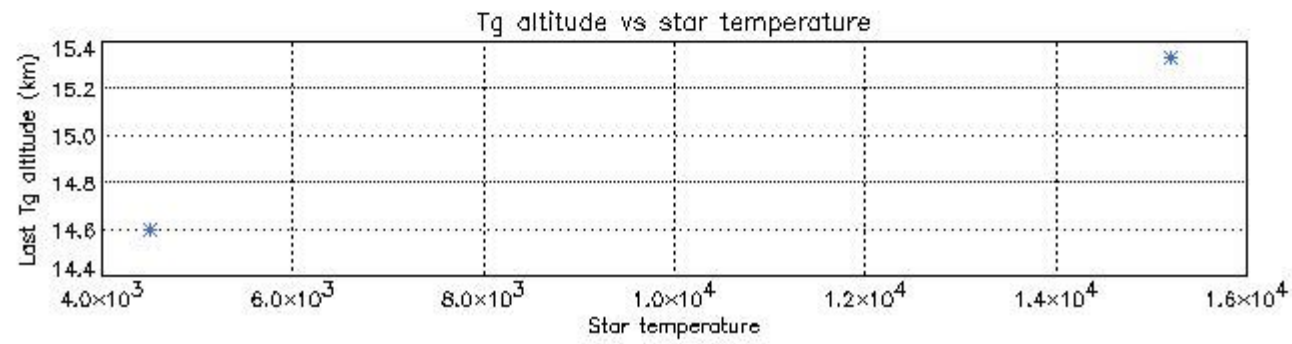
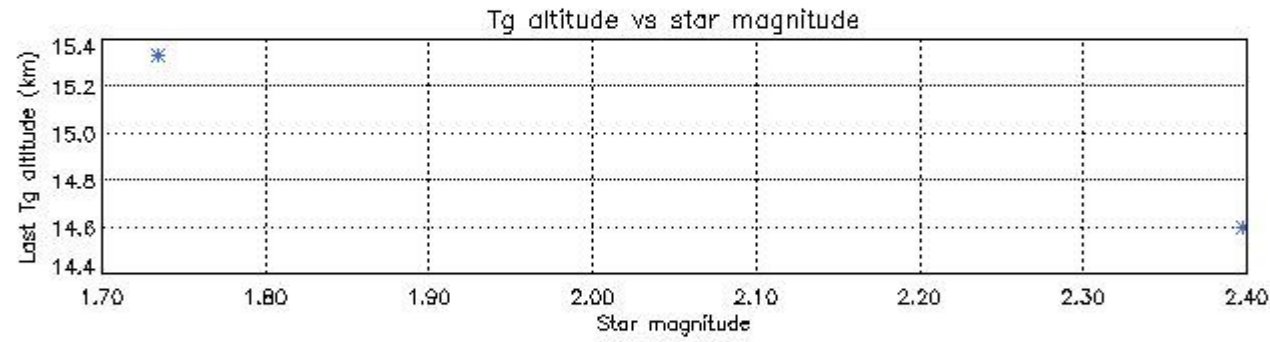
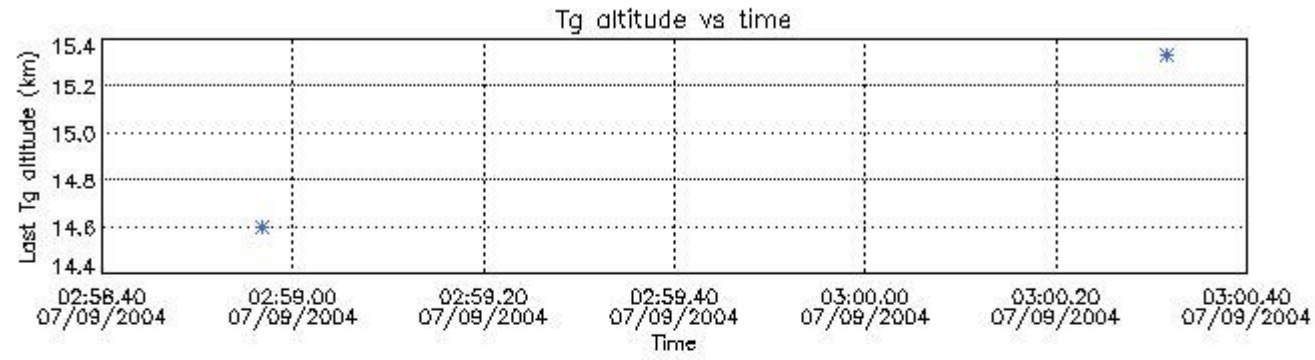
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

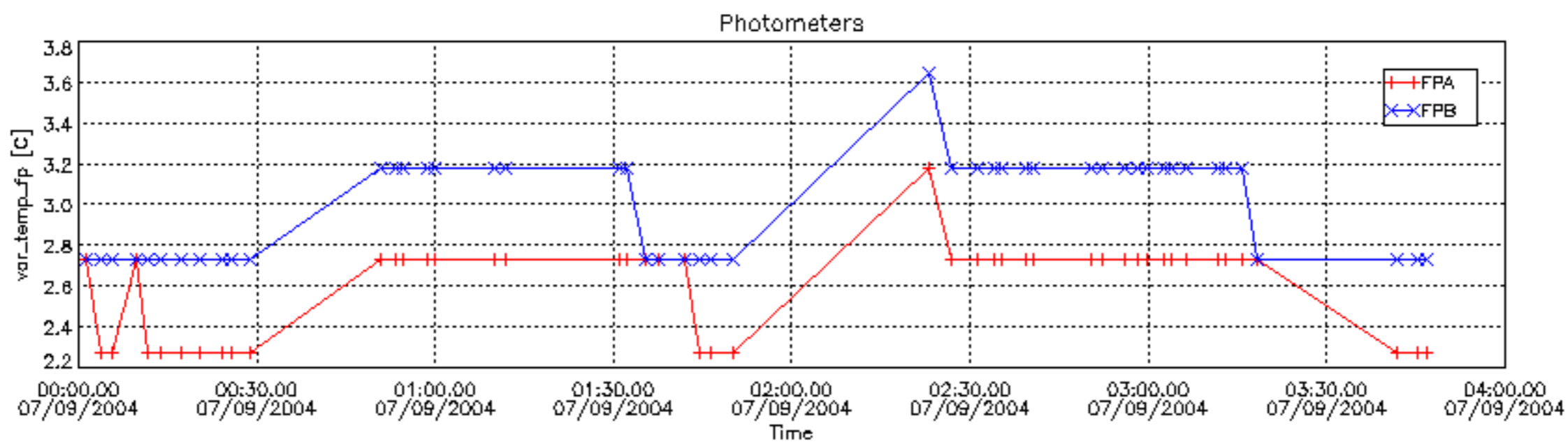
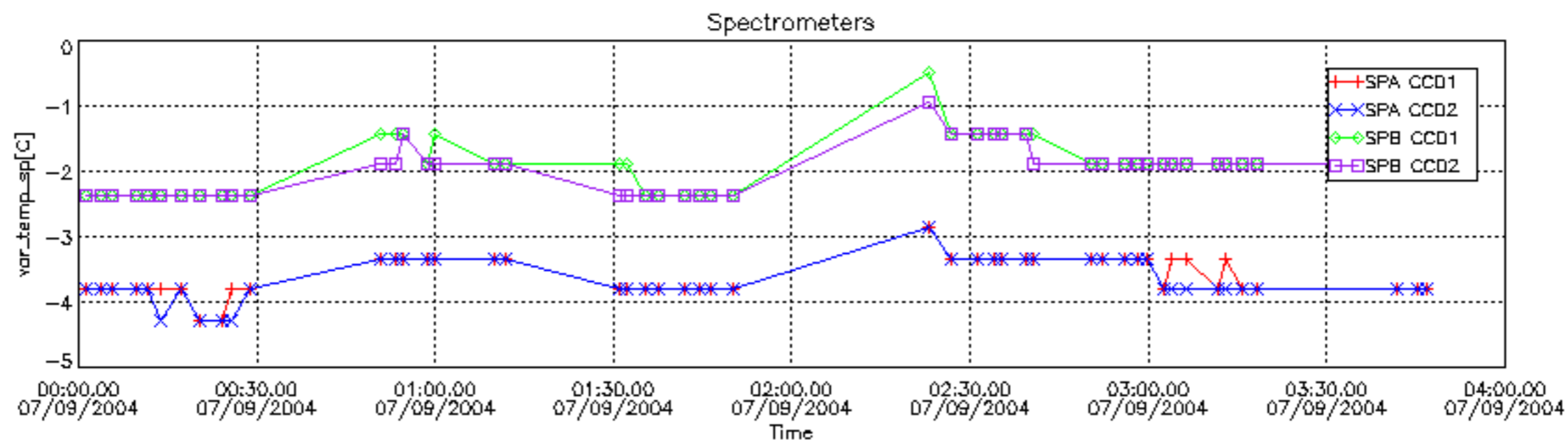


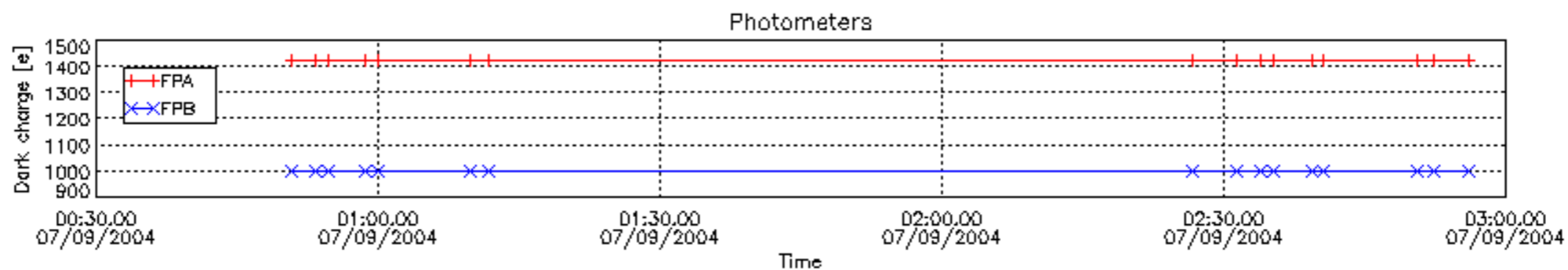
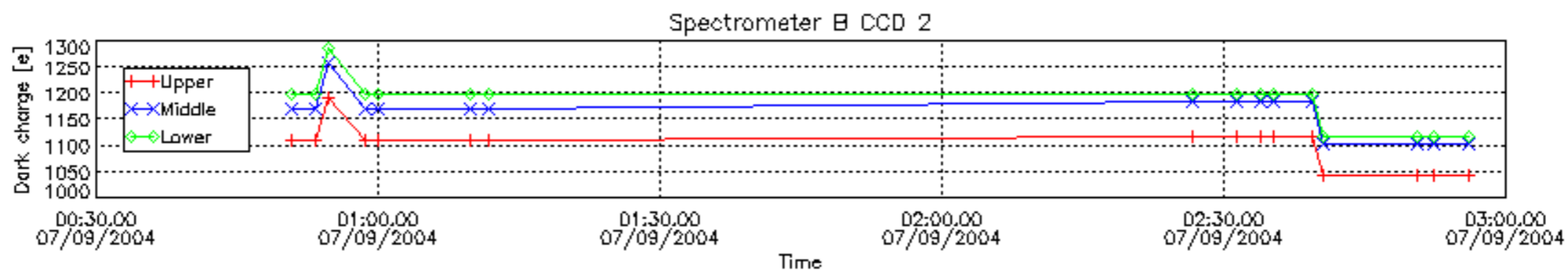
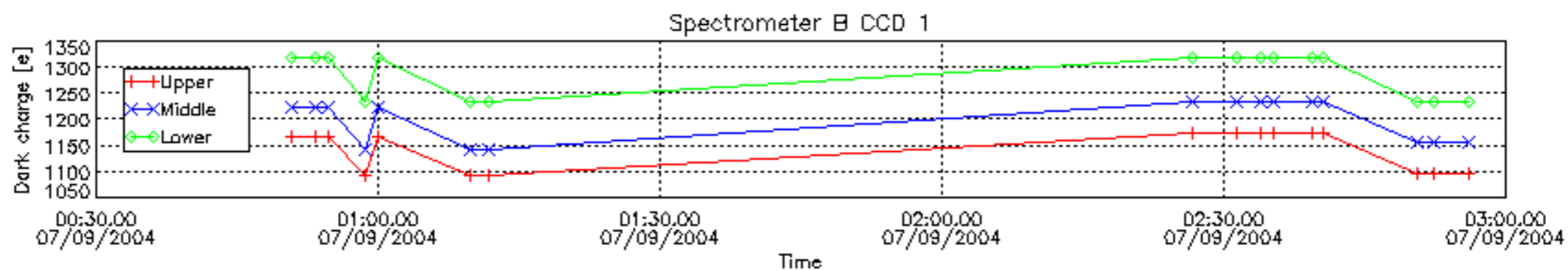
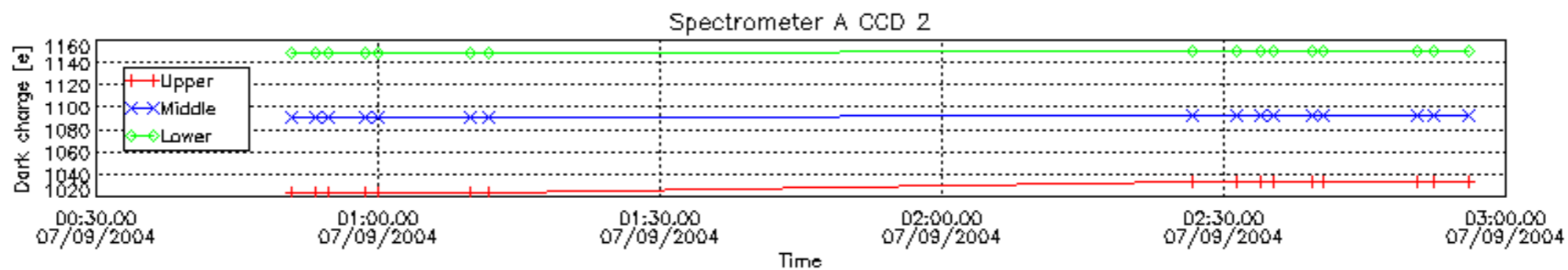
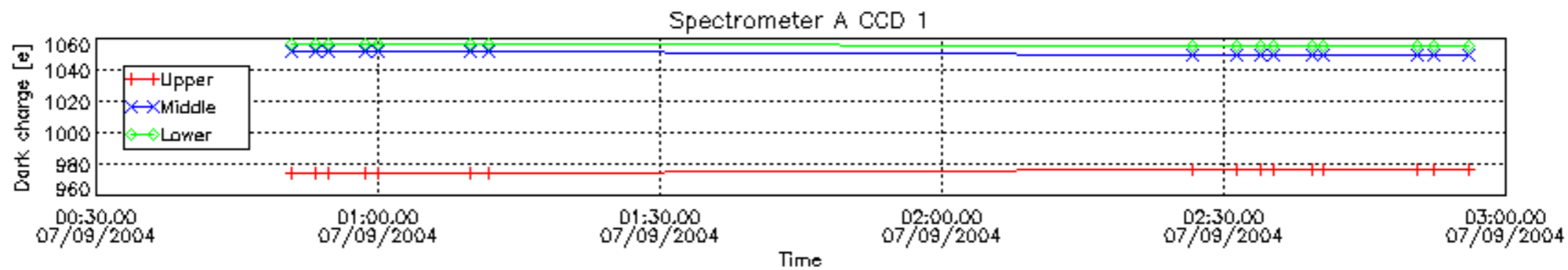
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

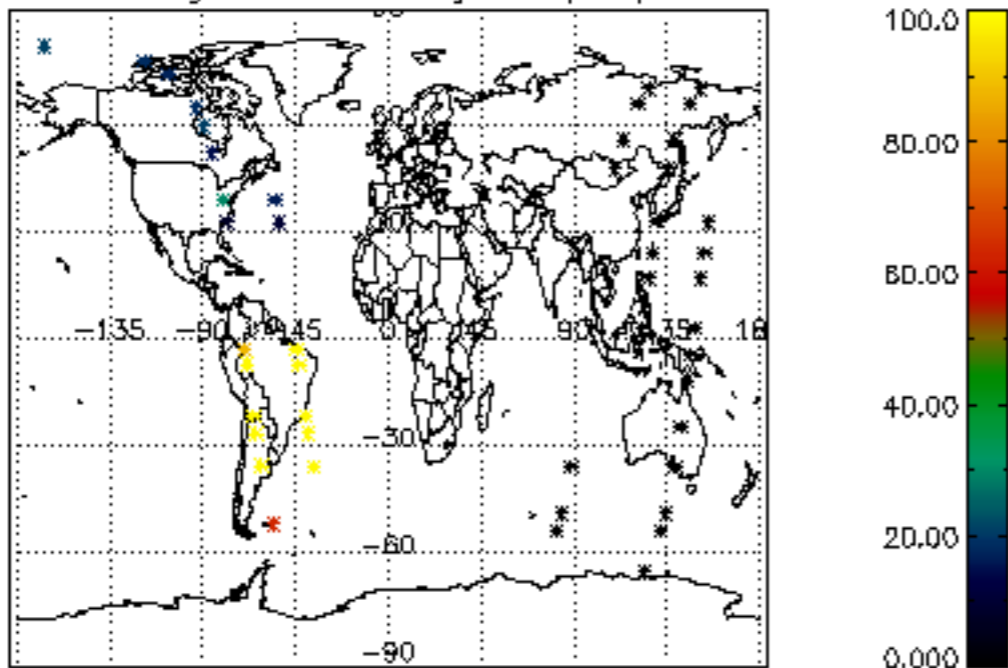
Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.6	1446.7	1461.1	1447.3
St. deviation:	4.0111	5.1738	7.6123	8.5489
Maximum:	1613.0	1631.0	1515.0	1494.0
Minimum:	1445.0	1425.0	1426.0	1410.0
Number of data:	20650.	20650.	34300.	34300.

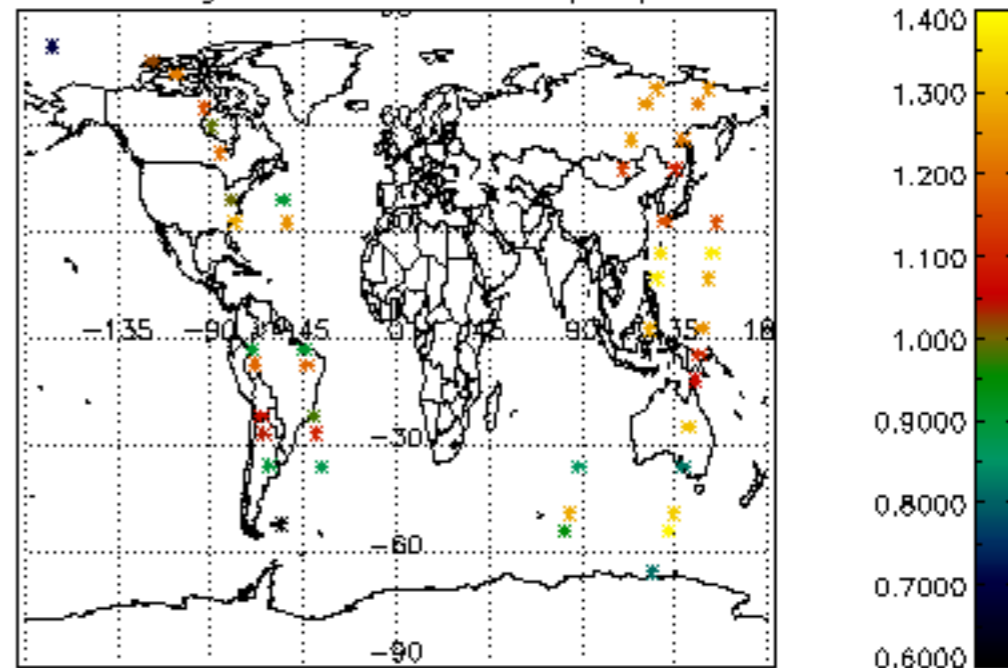




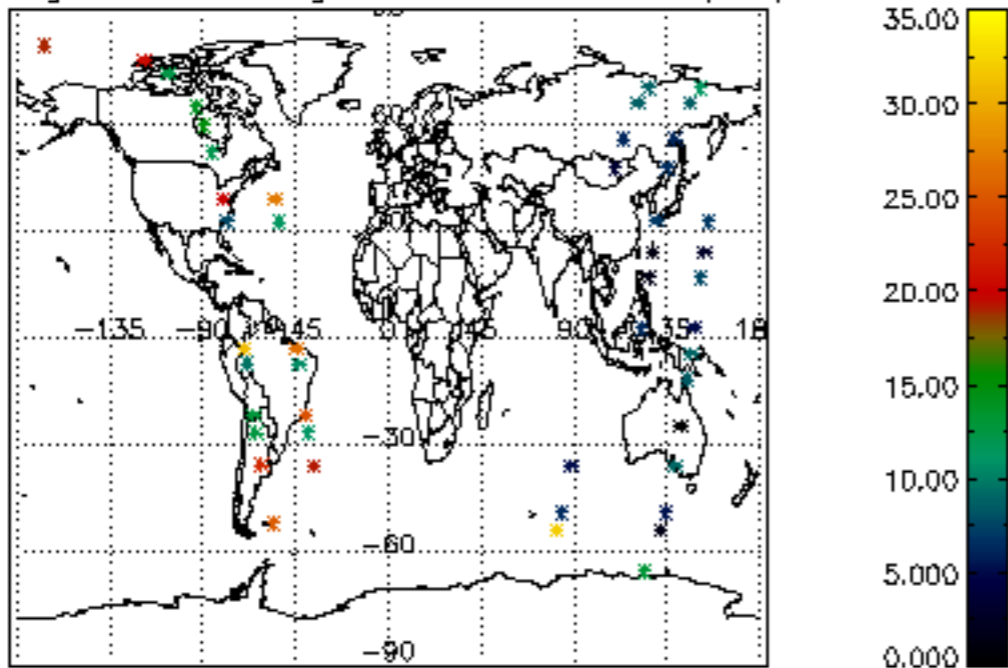
Percentage of cosmic ray hits per profile



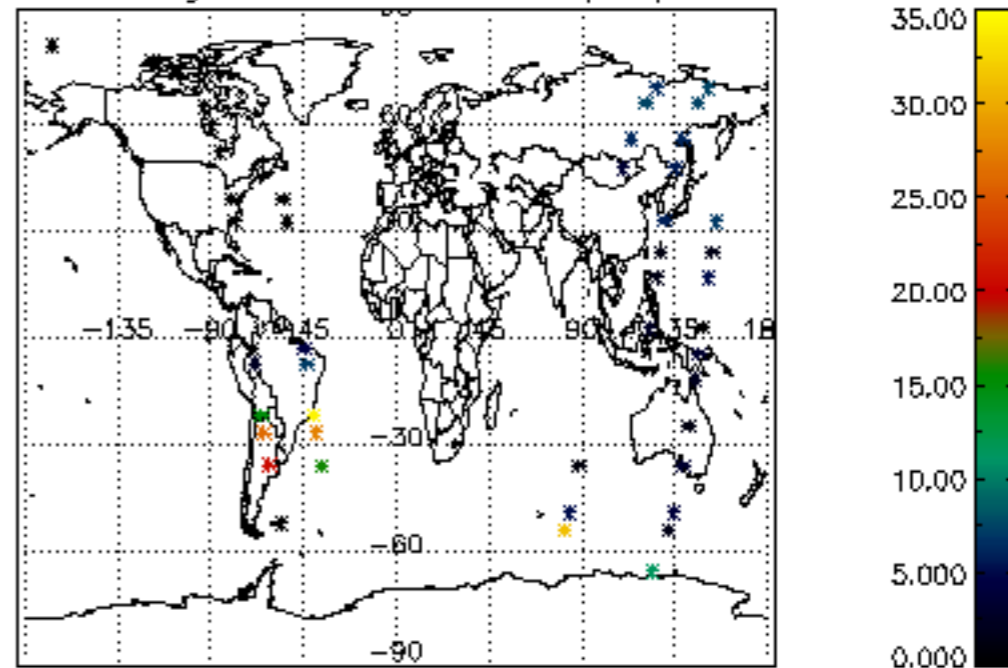
Percentage of datation errors per profile



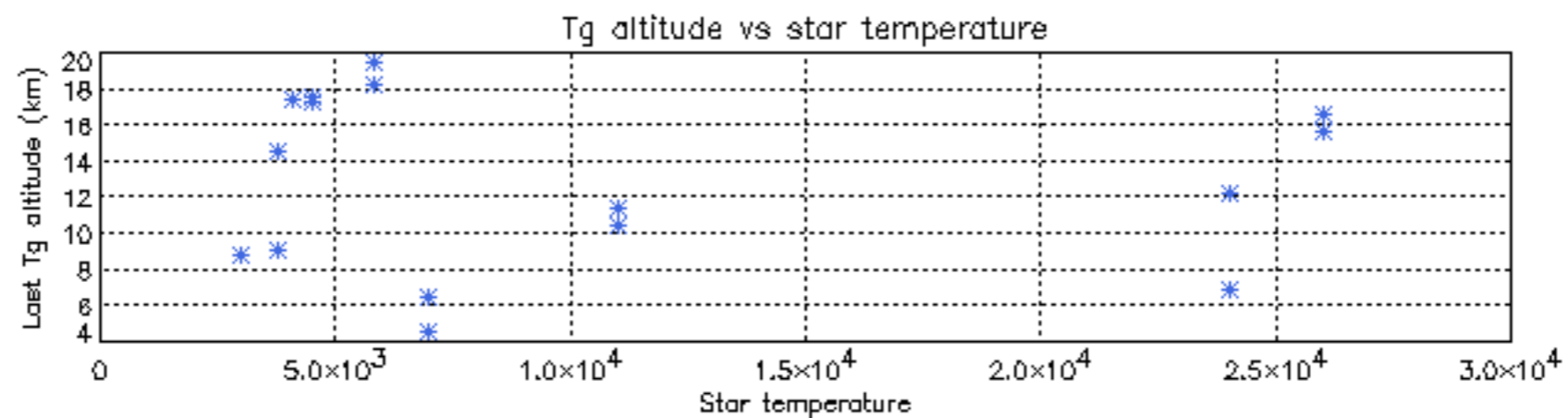
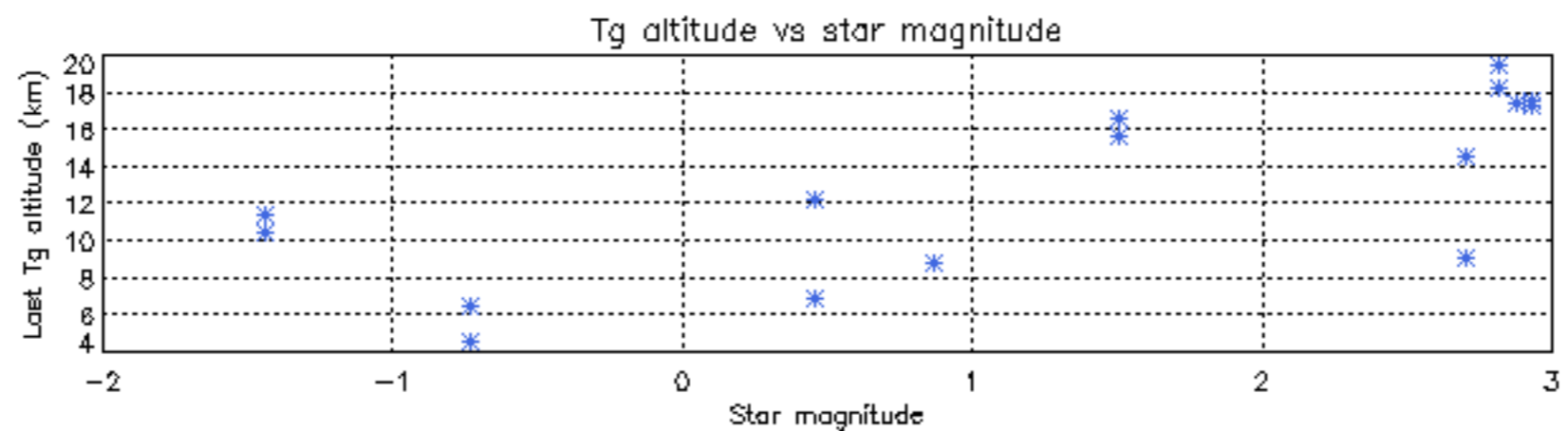
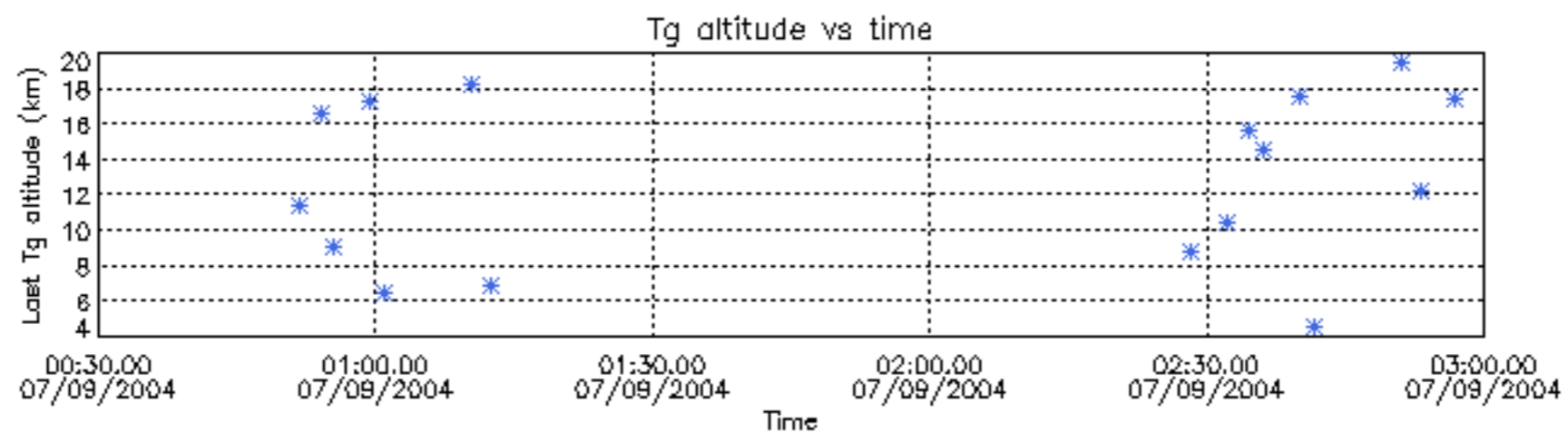
Percentage of star falling outside central band per profile



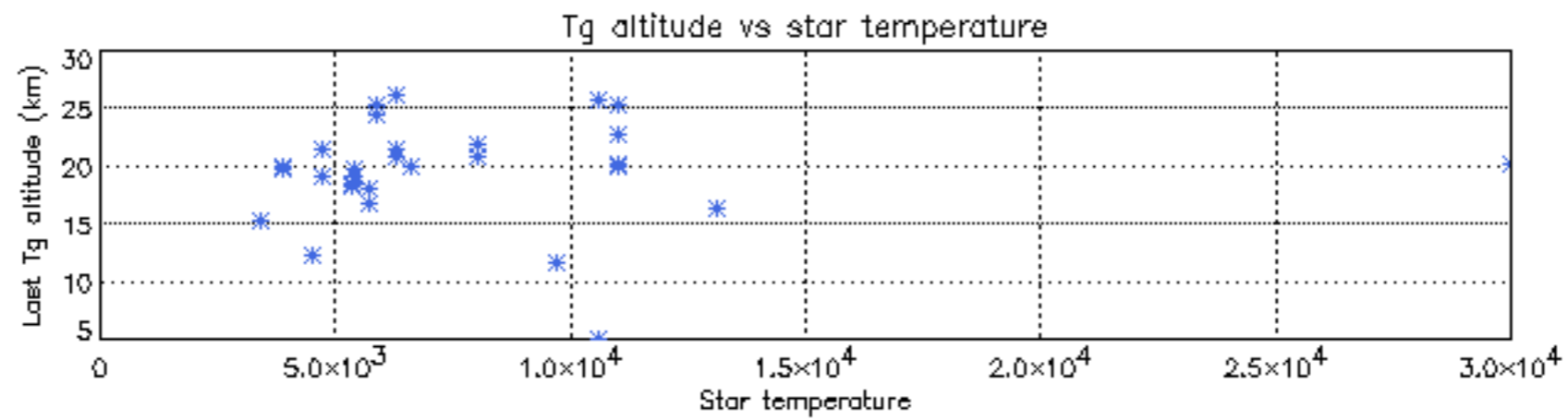
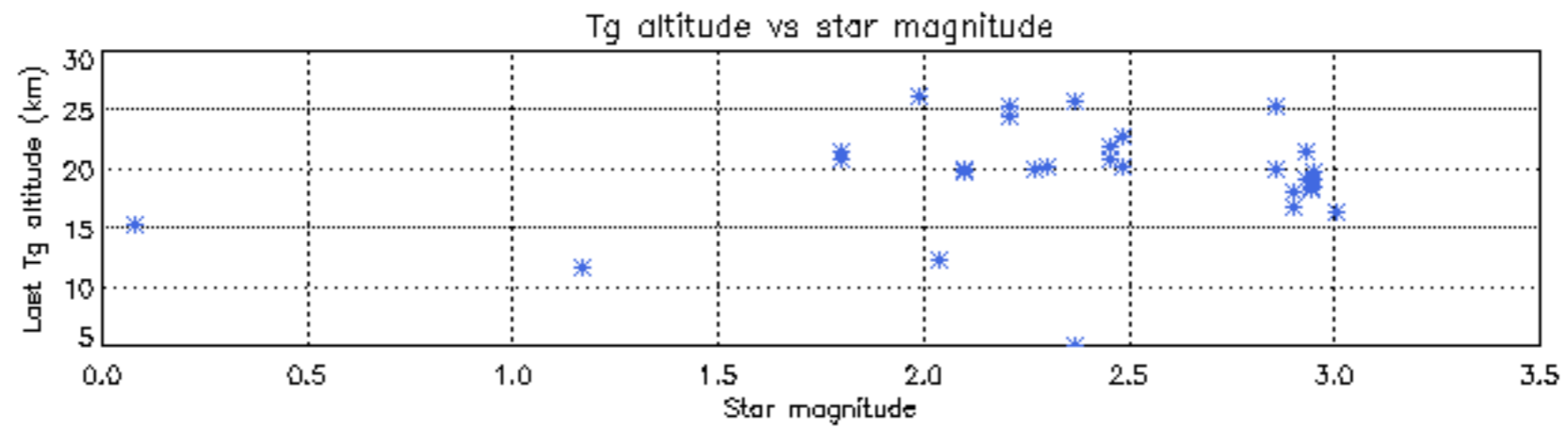
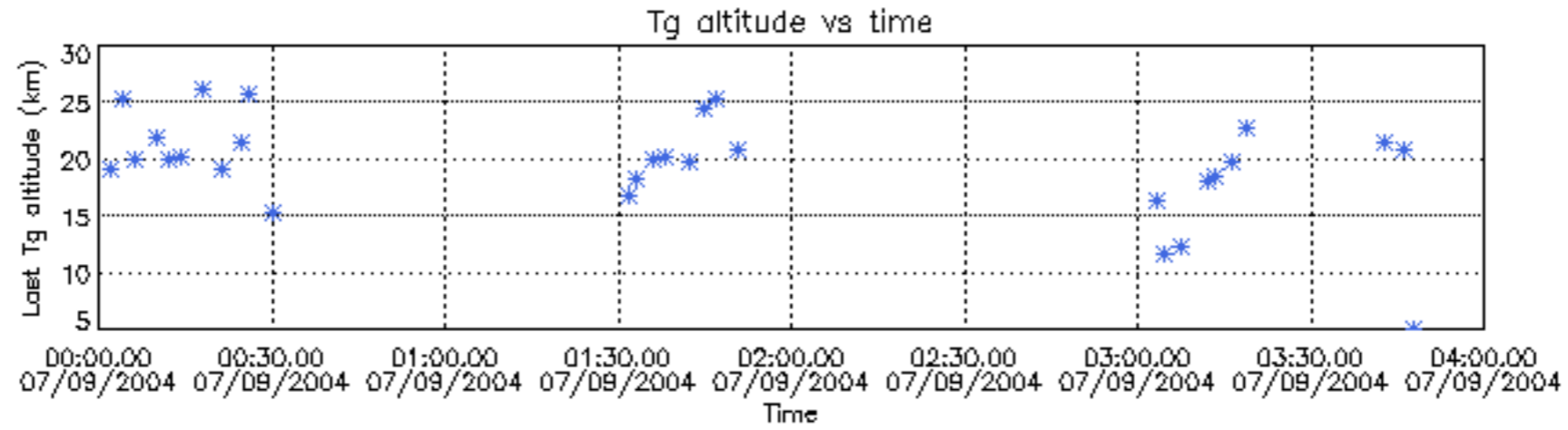
Percentage of saturation errors per profile



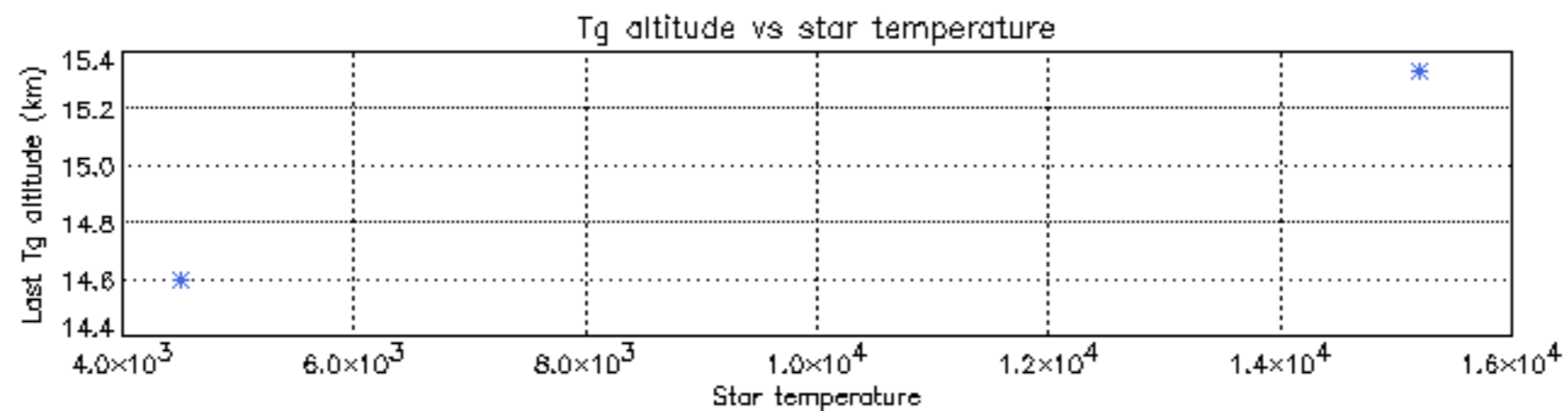
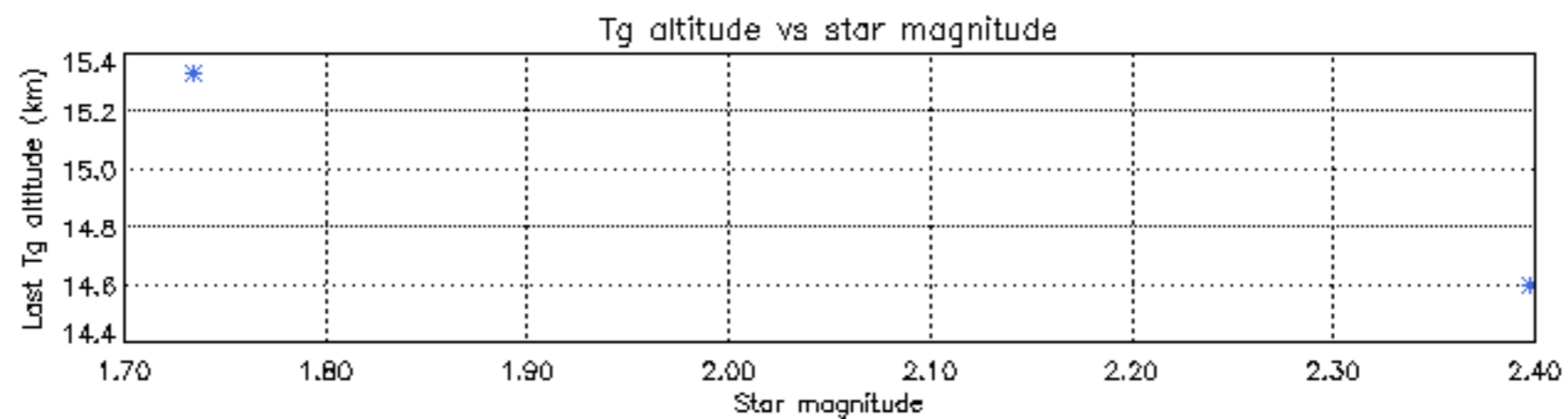
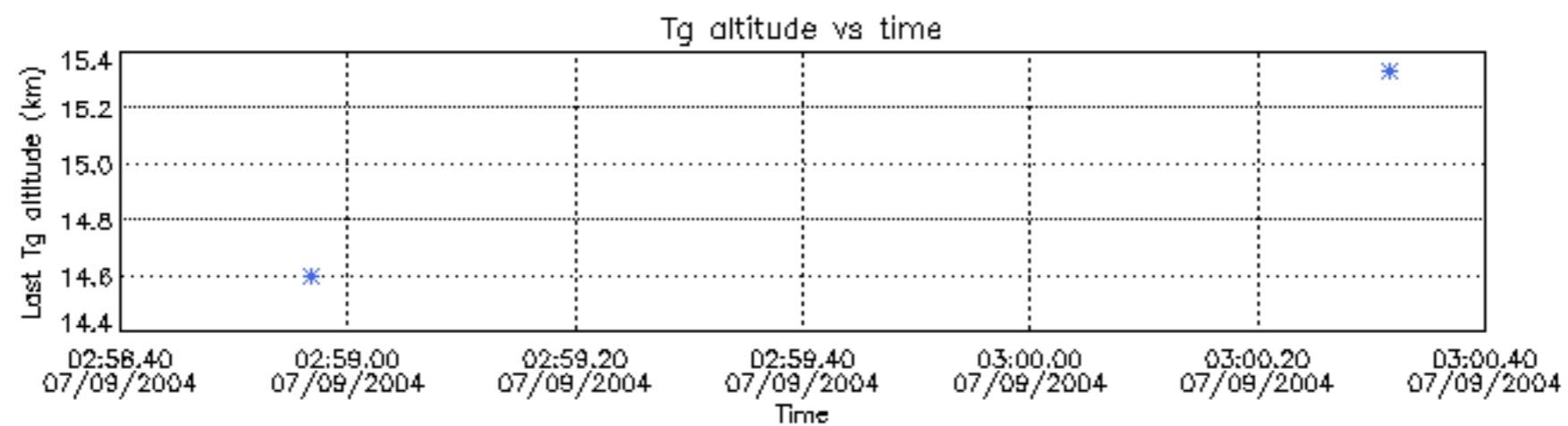
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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 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
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 23; 3190.5; 09-SEP-2004 00:50:42; Bright; 44.5; 76; 27Gam Cas ; 2.30; 30000;occ; 89; 0;13211
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32;	549.3;	08-SEP-2004	17:24:17;	Dark	;	42.0;	135;	Bet	Hyi	;	2.82;	5800;	occ;	84;	0;	13207
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12;	-3298.2;	08-SEP-2004	18:00:46;	Bright;	;	37.5;	144;	18Del	Cyg	;	2.86;	11000;	occ;	75;	0;	13207
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23; 1659.7; 19-SEP-2004 05:12:34; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;13357
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28; 2538.9; 19-SEP-2004 05:27:14; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;13357
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23; 1659.9; 19-SEP-2004 06:53:11; Dark ; 41.0; 142; 49Del Cap ; 2.85; 8900;occ; 82; 0;13358
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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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4;	-3797.4;	19-SEP-2004	08:43:25;	Bright;	;	47.5;	140;	88Gam	Peg	;	2.83;	26000;	occ;	95;	0;	13359
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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
15;	-2068.5;	19-SEP-2004	09:12:14;	Bright;	;	36.5;	82;	48Bet	UMa	;	2.37;	10600;	occ;	73;	0;	13359
16;	-1882.6;	19-SEP-2004	09:15:20;	Bright;	;	36.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	72;	0;	13359
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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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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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30;	909.6;	19-SEP-2004	10:01:52;	Dark	;	43.5;	148;	Alp	Tuc	;	2.88;	4100;	occ;	87;	0;	13360
31;	1114.8;	19-SEP-2004	10:05:17;	Dark	;	46.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	93;	0;	13360
32;	1302.2;	19-SEP-2004	10:08:25;	Dark	;	40.0;	172;	Gam	Gru	;	3.00;	13100;	occ;	80;	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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2;	-4125.1;	19-SEP-2004	11:59:09;	Bright;	;	39.0;	162;	34Alp	Aqr	;	2.94;	5350;	occ;	78;	0;	13361
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
6;	-3496.0;	19-SEP-2004	12:09:38;	Bright;	;	37.5;	92;	53Eps	Cyg	;	2.50;	4500;	occ;	75;	0;	13361
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
10;	-2931.7;	19-SEP-2004	12:19:03;	Bright;	;	39.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	79;	0;	13361
11;	-2493.9;	19-SEP-2004	12:26:20;	Bright;	;	72.0;	35;	33Alp	Per	;	1.79;	6250;	occ;	144;	0;	13361
12;	-2380.9;	19-SEP-2004	12:28:13;	Bright;	;	66.5;	175;	39Del	Per	;	3.01;	19400;	occ;	133;	0;	13361
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
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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
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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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16;-2041.6; 30-SEP-2004 20:10:54; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;13523
17;-1848.9; 30-SEP-2004 20:14:07; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;13523
18;-1703.2; 30-SEP-2004 20:16:33; Bright; 90.0; 107; 37The Aur ; 2.65; 11000;occ; 180; 0;13523
19;-1524.7; 30-SEP-2004 20:19:31; Bright; 54.5; 24; 66Alp Gem ; 1.58; 10200;occ; 109; 0;13523
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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