

GOMOS Daily Report 06-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 05:01:24
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (06SEP2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (07SEP2004 00:00:00)

Store outputs flag	0
Nb of level 1b prods	50
Nb of prods with errors	1

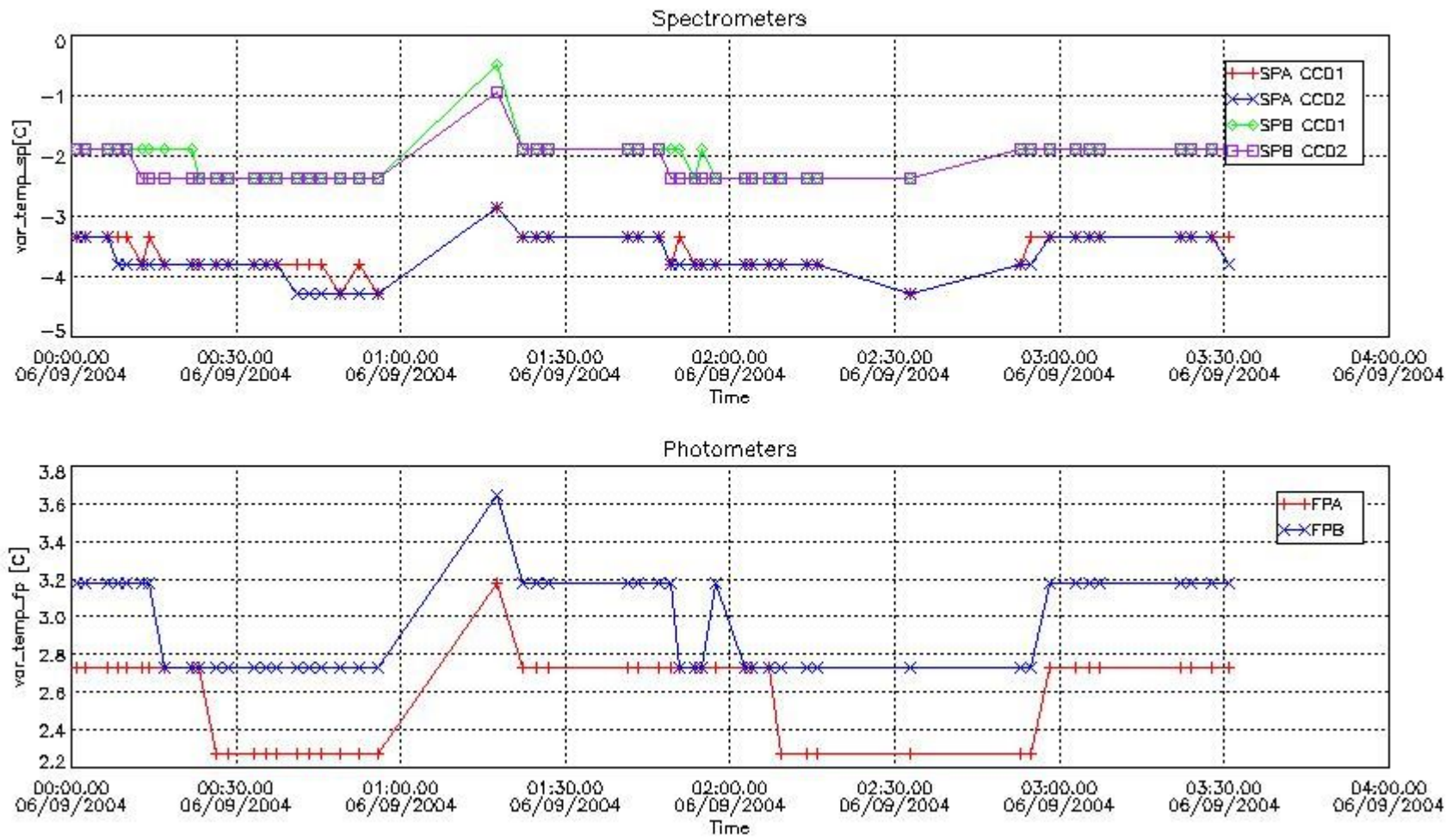
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040906_000051_000000402030_00088_13168_0003.N1	06-SEP-2004 00:00:51	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	13168	No
GOM_TRA_1PNPDE20040906_000234_000000472030_00088_13168_0004.N1	06-SEP-2004 00:02:34	Dark	47.000	9	Alp Eri	0.45300	24000.	94	13168	No
GOM_TRA_1PNPDE20040906_000626_000000402030_00088_13168_0005.N1	06-SEP-2004 00:06:26	Dark	39.500	148	Alp Tuc	2.8780	4100.0	79	13168	No
GOM_TRA_1PNPDE20040906_000828_000000512030_00088_13168_0006.N1	06-SEP-2004 00:08:28	Twilight	51.000	84	Alp Phe	2.3970	4500.0	102	13168	No
GOM_TRA_1PNPDE20040906_001007_000000432030_00088_13168_0007.N1	06-SEP-2004 00:10:07	Twilight	43.000	31	Alp Gru	1.7340	15200.	86	13168	No
GOM_TRA_1PNPDE20040906_001257_000000392030_00088_13168_0008.N1	06-SEP-2004 00:12:57	Bright	38.500	172	Gam Gru	3.0030	13100.	77	13168	No
GOM_TRA_1PNPDE20040906_001412_000000502030_00088_13168_0009.N1	06-SEP-2004 00:14:12	Bright	50.000	18	24Alp PsA	1.1660	9700.0	100	13168	No
GOM_TRA_1PNPDE20040906_001651_000000782030_00088_13168_0010.N1	06-SEP-2004 00:16:51	Bright	78.000	52	16Bet Cet	2.0370	4500.0	156	13168	No
GOM_TRA_1PNPDE20040906_002200_000000392030_00088_13168_0011.N1	06-SEP-2004 00:22:00	Bright	39.000	154	22Bet Aqr	2.8990	5700.0	78	13168	No
GOM_TRA_1PNPDE20040906_002320_000000402030_00088_13168_0012.N1	06-SEP-2004 00:23:20	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	13168	No
GOM_TRA_1PNPDE20040906_002619_000000402030_00088_13168_0013.N1	06-SEP-2004 00:26:19	Bright	39.500	61	8Eps Peg	2.1000	3900.0	79	13168	No
GOM_TRA_1PNPDE20040906_002841_000000472030_00088_13168_0014.N1	06-SEP-2004 00:28:41	Bright	47.000	90	54Alp Peg	2.4870	11000.	94	13168	No
GOM_TRA_1PNPDE20040906_003318_000000422030_00088_13168_0015.N1	06-SEP-2004 00:33:18	Bright	42.000	92	53Eps Cyg	2.5000	4500.0	84	13168	No
GOM_TRA_1PNPDE20040906_003518_000000402030_00088_13168_0016.N1	06-SEP-2004 00:35:18	Bright	39.500	66	37Gam Cyg	2.2080	5900.0	79	13168	No
GOM_TRA_1PNPDE20040906_003712_000000372030_00088_13168_0017.N1	06-SEP-2004 00:37:12	Bright	36.500	144	18Del Cyg	2.8600	11000.	73	13168	No
GOM_TRA_1PNPDE20040906_004113_000000412030_00088_13168_0018.N1	06-SEP-2004 00:41:13	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	13168	No
GOM_TRA_1PNPDE20040906_004324_000000412030_00088_13168_0019.N1	06-SEP-2004 00:43:24	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	13168	No
GOM_TRA_1PNPDE20040906_004525_000000462030_00088_13168_0020.N1	06-SEP-2004 00:45:25	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	13168	No
GOM_TRA_1PNPDE20040906_004856_000000412030_00088_13168_0021.N1	06-SEP-2004 00:48:56	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	13168	No
GOM_TRA_1PNPDE20040906_005221_000000582030_00088_13168_0022.N1	06-SEP-2004 00:52:21	Bright	58.000	160	23Gam Per	2.9300	4700.0	116	13168	No
GOM_TRA_1PNPDE20040906_005544_000000392030_00088_13168_0023.N1	06-SEP-2004 00:55:44	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	13168	No
GOM_TRA_1PNPDE20040906_011727_000000902030_00088_13168_0000.N1	06-SEP-2004 01:17:27	Dark	90.000	14	58Alp Ori	0.87000	3000.0	180	13168	Yes
GOM_TRA_1PNPDE20040906_012211_000000602030_00088_13168_0001.N1	06-SEP-2004 01:22:11	Dark	60.000	1	9Alp CMa	-1.4400	11000.	120	13168	No
GOM_TRA_1PNPDE20040906_012448_000000452030_00088_13168_0002.N1	06-SEP-2004 01:24:48	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	13168	No
GOM_TRA_1PNPDE20040906_012645_000000922030_00088_13168_0003.N1	06-SEP-2004 01:26:45	Dark	92.000	7	19Bet Ori	0.10000	14000.	184	13168	No
GOM_TRA_1PNPDE20040906_014127_000000402030_00089_13169_0004.N1	06-SEP-2004 01:41:27	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	13169	No
GOM_TRA_1PNPDE20040906_014311_000000472030_00089_13169_0005.N1	06-SEP-2004 01:43:11	Dark	46.500	9	Alp Eri	0.45300	24000.	93	13169	No
GOM_TRA_1PNPDE20040906_014702_000000432030_00089_13169_0006.N1	06-SEP-2004 01:47:02	Dark	43.000	148	Alp Tuc	2.8780	4100.0	86	13169	No
GOM_TRA_1PNPDE20040906_014903_000000532030_00089_13169_0007.N1	06-SEP-2004 01:49:03	Twilight	53.000	84	Alp Phe	2.3970	4500.0	106	13169	No
GOM_TRA_1PNPDE20040906_015043_000000442030_00089_13169_0008.N1	06-SEP-2004 01:50:43	Twilight	43.500	31	Alp Gru	1.7340	15200.	87	13169	No
GOM_TRA_1PNPDE20040906_015332_000000402030_00089_13169_0009.N1	06-SEP-2004 01:53:32	Bright	40.000	172	Gam Gru	3.0030	13100.	80	13169	No
GOM_TRA_1PNPDE20040906_015448_000000512030_00089_13169_0010.N1	06-SEP-2004 01:54:48	Bright	50.500	18	24Alp PsA	1.1660	9700.0	101	13169	No
GOM_TRA_1PNPDE20040906_015727_000000742030_00089_13169_0011.N1	06-SEP-2004 01:57:27	Bright	73.500	52	16Bet Cet	2.0370	4500.0	147	13169	No
GOM_TRA_1PNPDE20040906_020236_000000402030_00089_13169_0012.N1	06-SEP-2004 02:02:36	Bright	40.000	154	22Bet Aqr	2.8990	5700.0	80	13169	No
GOM_TRA_1PNPDE20040906_020356_000000412030_00089_13169_0013.N1	06-SEP-2004 02:03:56	Bright	41.000	162	34Alp Aqr	2.9440	5350.0	82	13169	No
GOM_TRA_1PNPDE20040906_020655_000000402030_00089_13169_0014.N1	06-SEP-2004 02:06:55	Bright	39.500	61	8Eps Peg	2.1000	3900.0	79	13169	No
GOM_TRA_1PNPDE20040906_020917_000000472030_00089_13169_0015.N1	06-SEP-2004 02:09:17	Bright	46.500	90	54Alp Peg	2.4870	11000.	93	13169	No
GOM_TRA_1PNPDE20040906_021356_000000382030_00089_13169_0016.N1	06-SEP-2004 02:13:56	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	13169	No
GOM_TRA_1PNPDE20040906_021554_000000382030_00089_13169_0017.N1	06-SEP-2004 02:15:54	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	13169	No
GOM_TRA_1PNPDE20040906_023256_000000602030_00089_13169_0000.N1	06-SEP-2004 02:32:56	Bright	60.000	160	23Gam Per	2.9300	4700.0	120	13169	No
GOM_TRA_1PNPDE20040906_025245_000000582030_00089_13169_0007.N1	06-SEP-2004 02:52:45	Twilight	57.500	44	24Gam Gem	1.9280	11000.	115	13169	No
GOM_TRA_1PNPDE20040906_025442_000000562030_00089_13169_0008.N1	06-SEP-2004 02:54:42	Twilight	55.500	8	10Alp CMi	0.40000	6500.0	111	13169	No
GOM_TRA_1PNPDE20040906_025804_000000782030_00089_13169_0009.N1	06-SEP-2004 02:58:04	Dark	78.000	14	58Alp Ori	0.87000	3000.0	156	13169	No
GOM_TRA_1PNPDE20040906_030248_000000592030_00089_13169_0010.N1	06-SEP-2004 03:02:48	Dark	59.000	1	9Alp CMa	-1.4400	11000.	118	13169	No
GOM_TRA_1PNPDE20040906_030525_000000432030_00089_13169_0011.N1	06-SEP-2004 03:05:25	Dark	43.000	23	21Eps CMa	1.5020	26000.	86	13169	No
GOM_TRA_1PNPDE20040906_030723_000001142030_00089_13169_0012.N1	06-SEP-2004 03:07:23	Dark	114.00	7	19Bet Ori	0.10000	14000.	228	13169	No
GOM_TRA_1PNPDE20040906_032203_000000402030_00090_13170_0013.N1	06-SEP-2004 03:22:03	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	13170	No
GOM_TRA_1PNPDE20040906_032347_000000482030_00090_13170_0014.N1	06-SEP-2004 03:23:47	Dark	47.500	9	Alp Eri	0.45300	24000.	95	13170	No
GOM_TRA_1PNPDE20040906_032739_000000412030_00090_13170_0015.N1	06-SEP-2004 03:27:39	Dark	40.500	148	Alp Tuc	2.8780	4100.0	81	13170	No

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



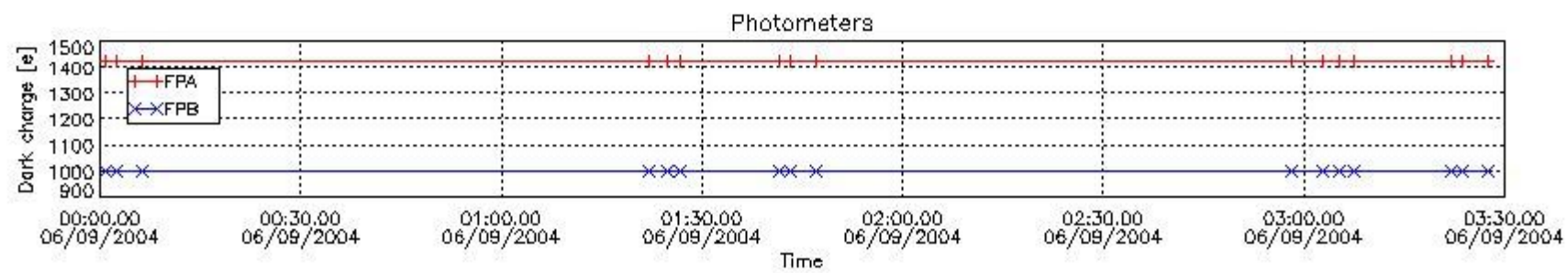
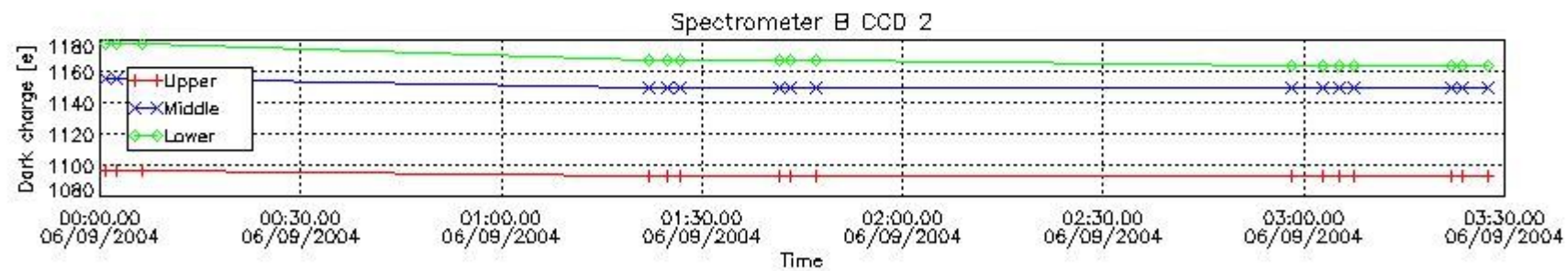
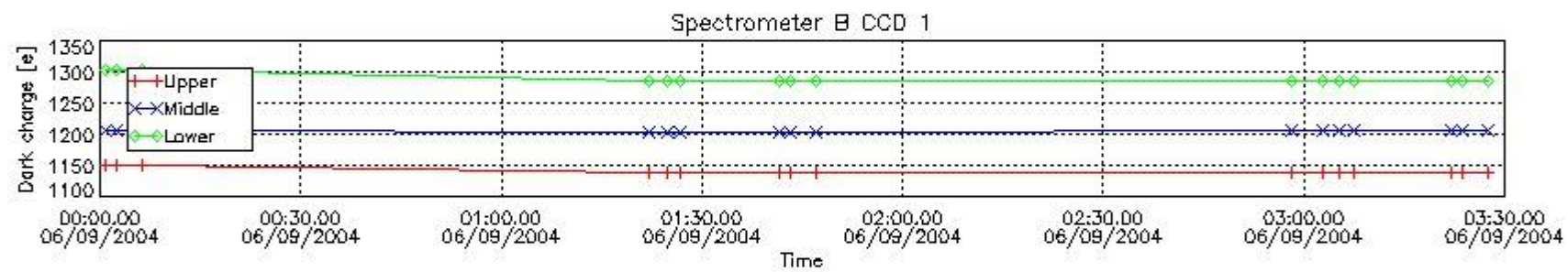
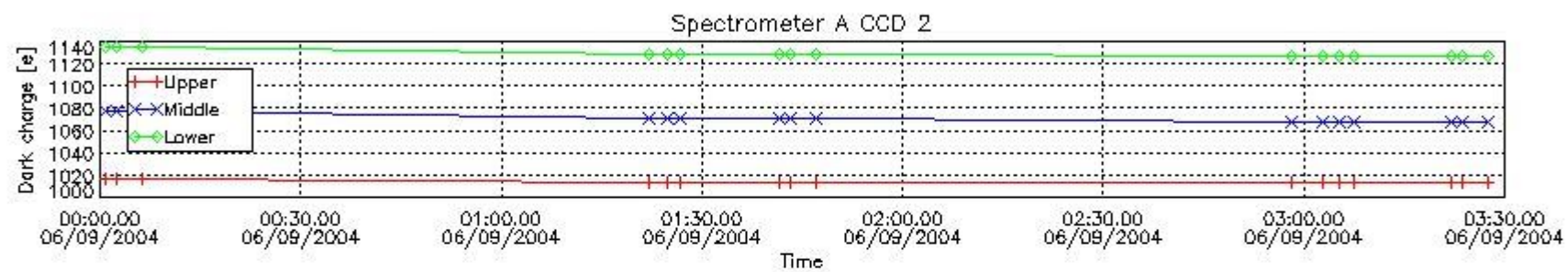
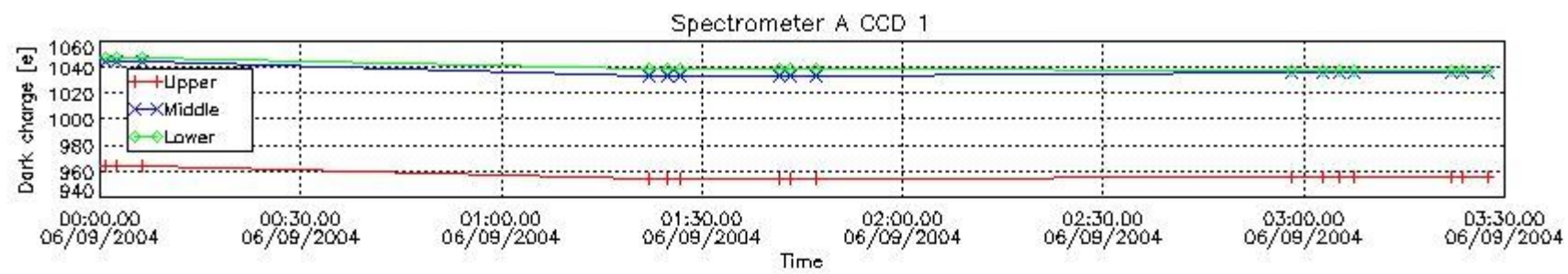
4. Overview of dark signal processing per product

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



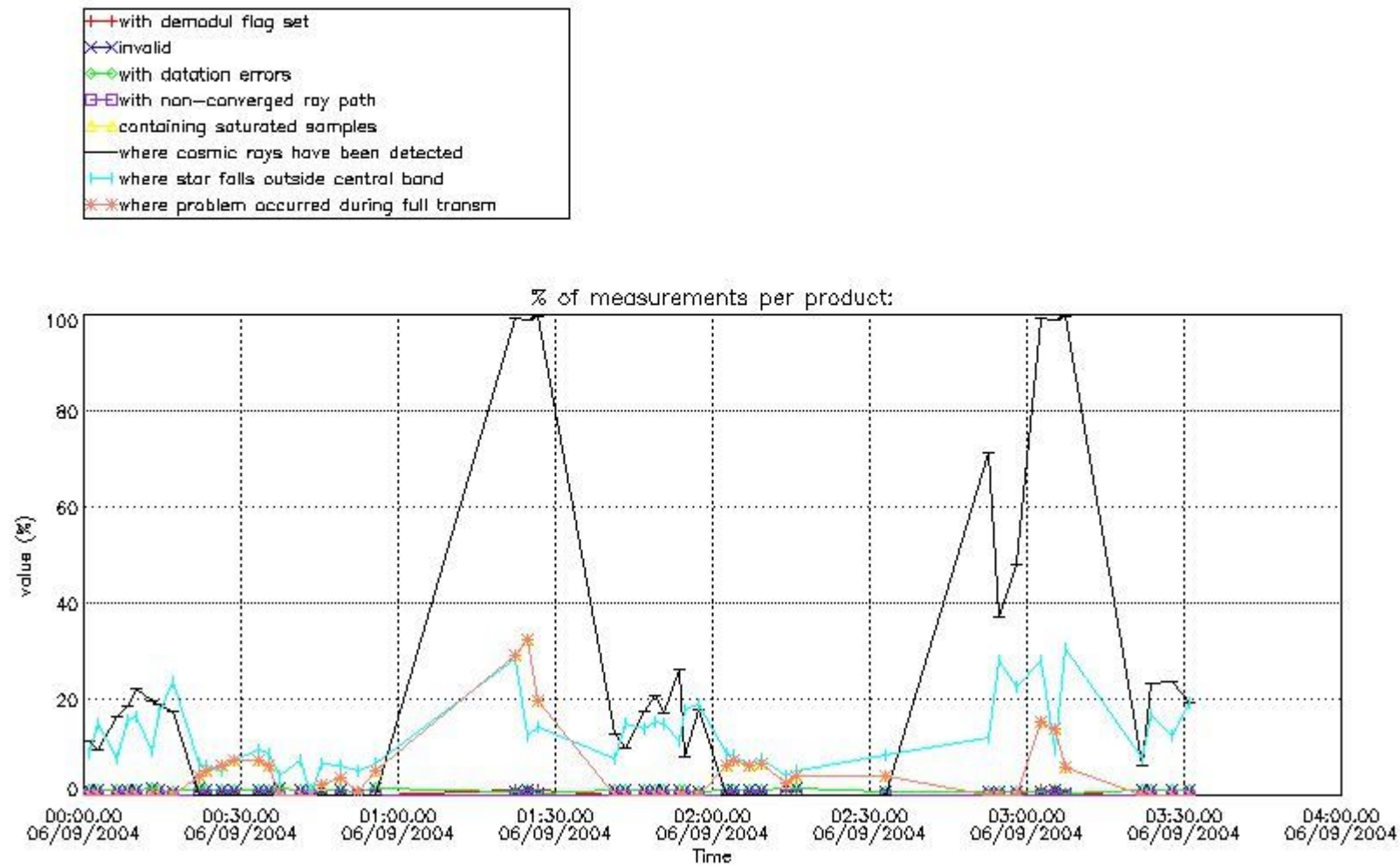
5. Demodulation flag and quality information monitoring

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.

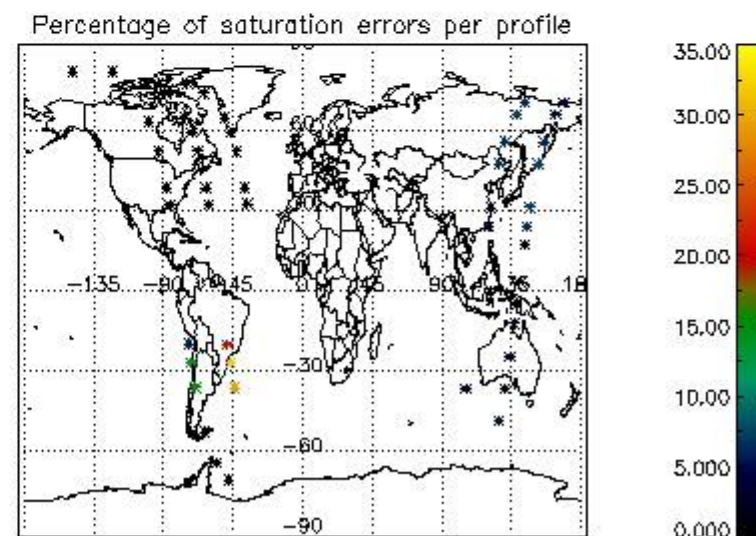
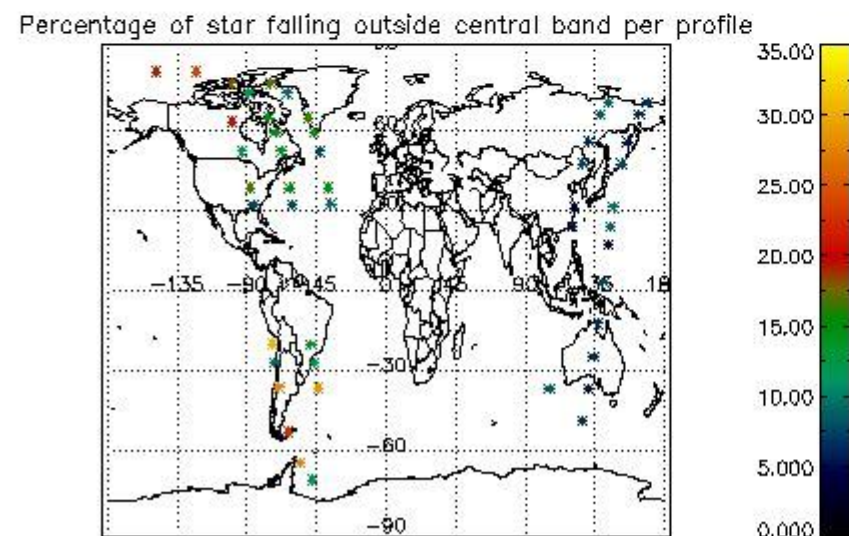
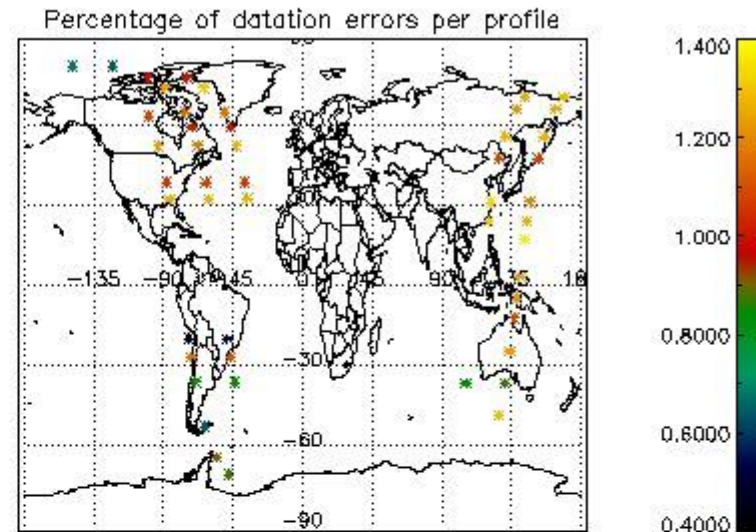
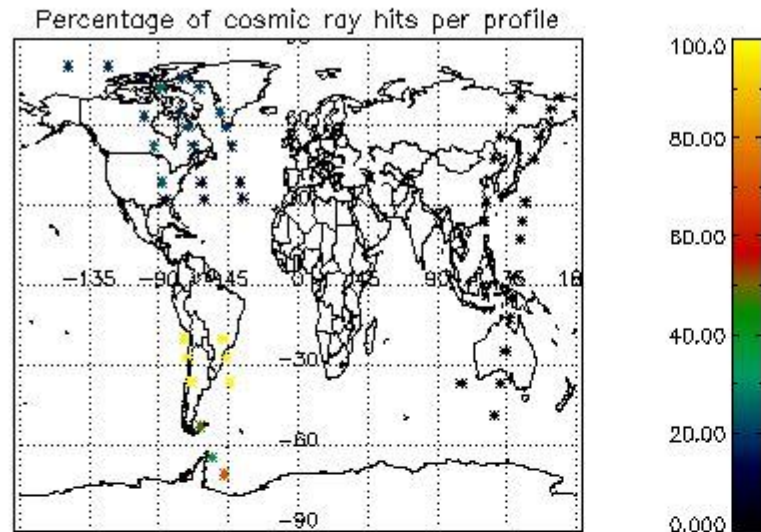
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.2857 %
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)



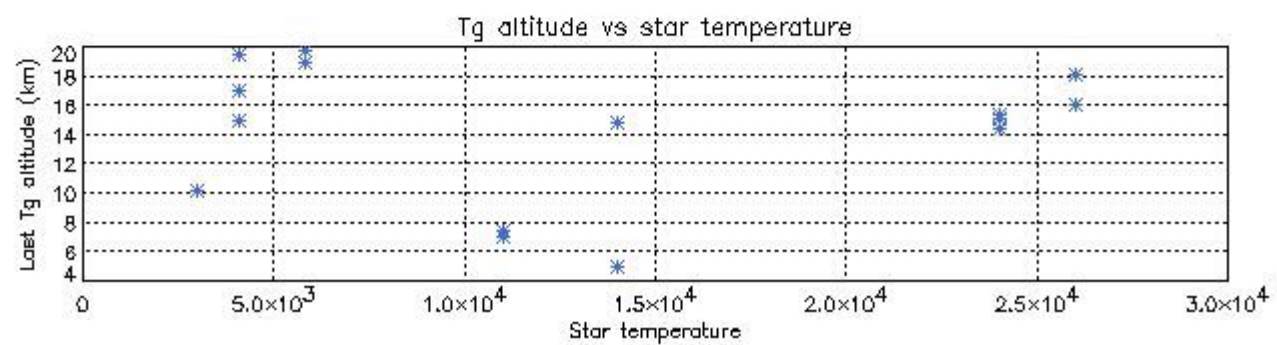
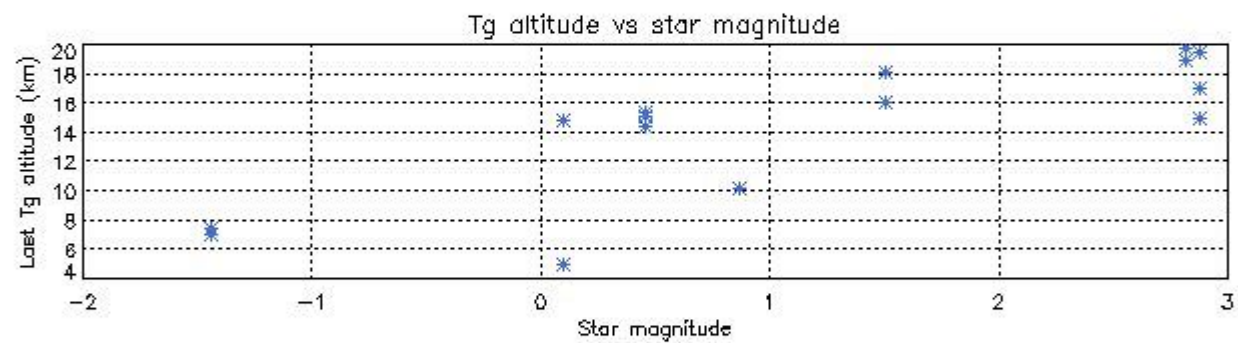
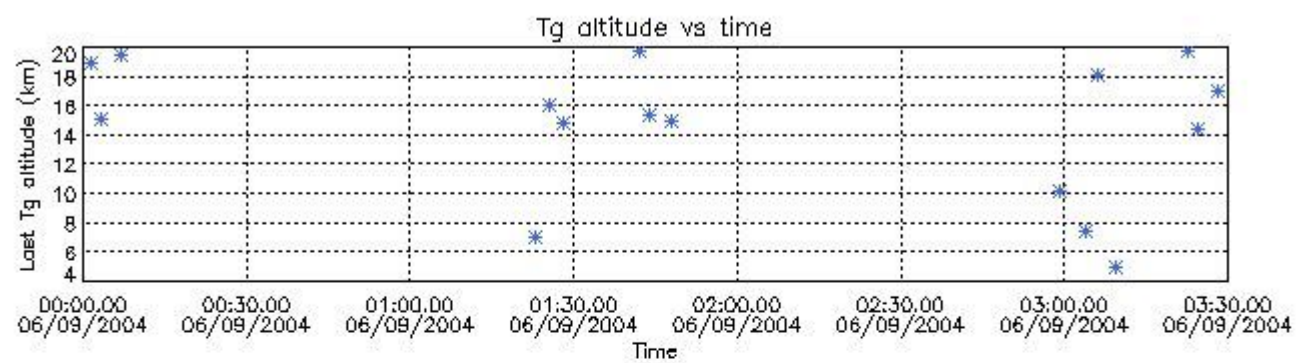
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.567	18.921	12.911
St. deviation:	4.7350	3.9333	2.9285
Maximum:	19.772	27.408	14.586
Minimum:	4.9939	9.6070	6.6969
Number of data:	16.000	26.000	7.0000

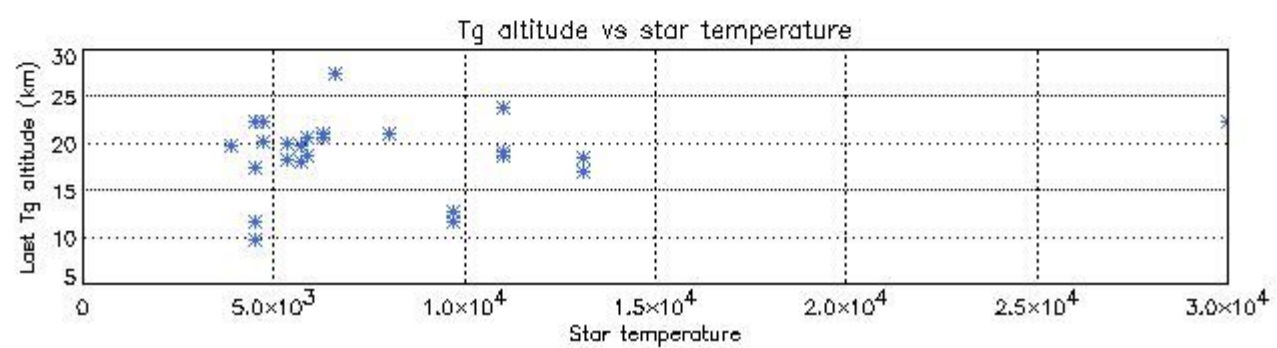
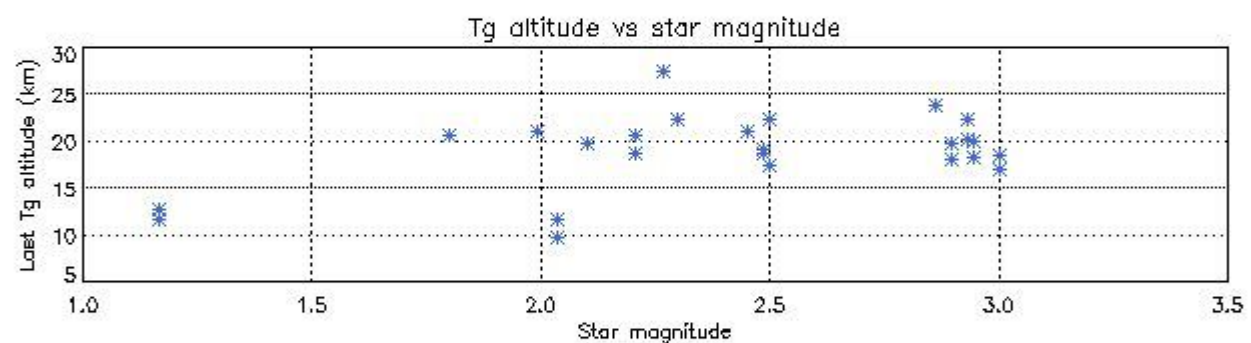
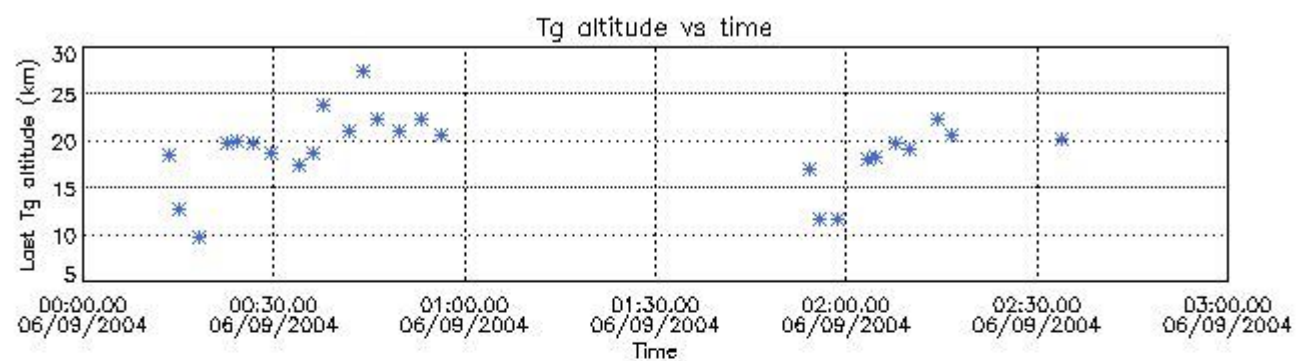
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



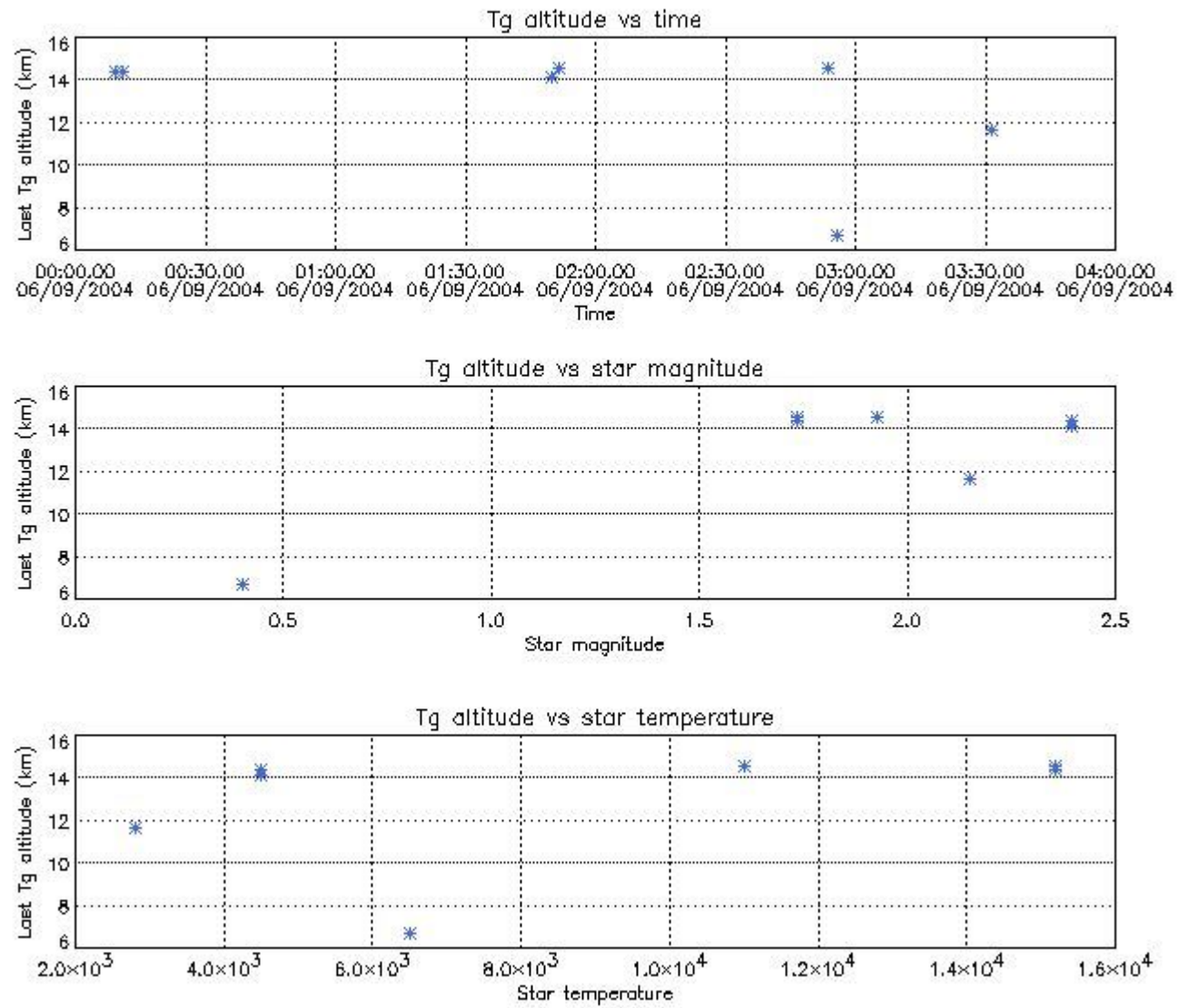
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

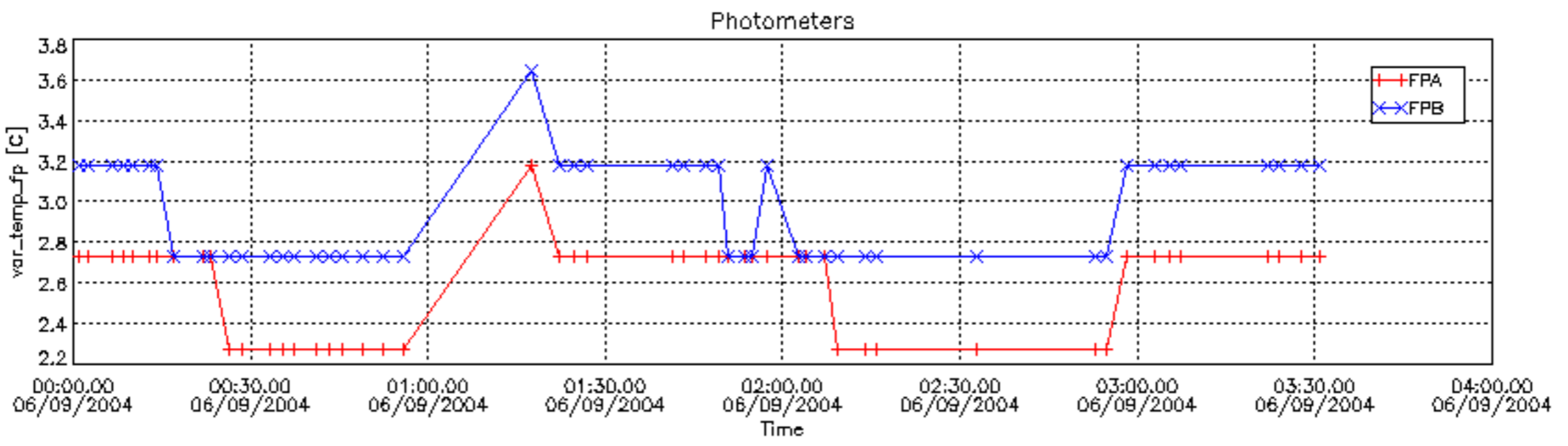
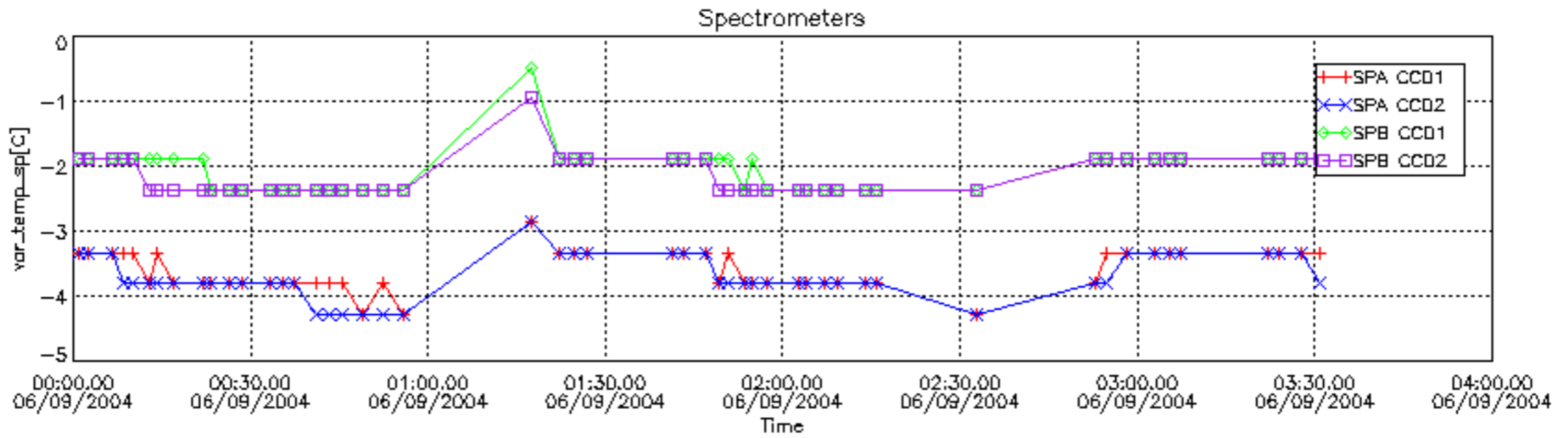
Tangent altitude at which the star is lost

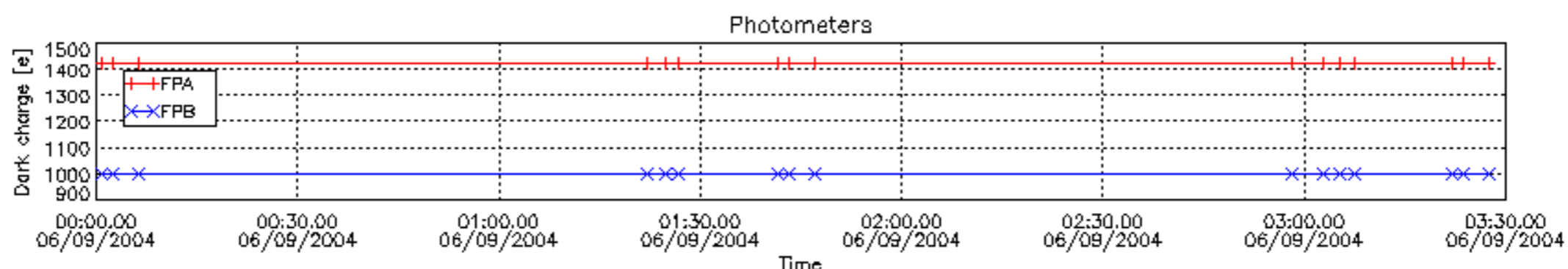
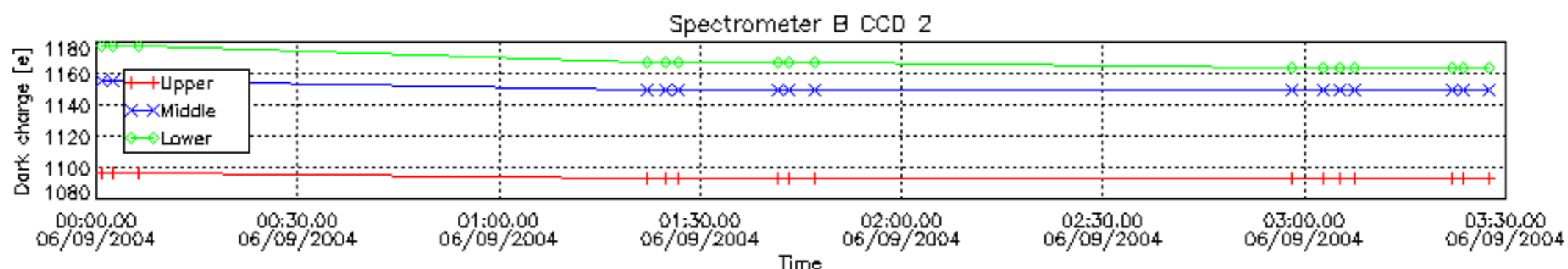
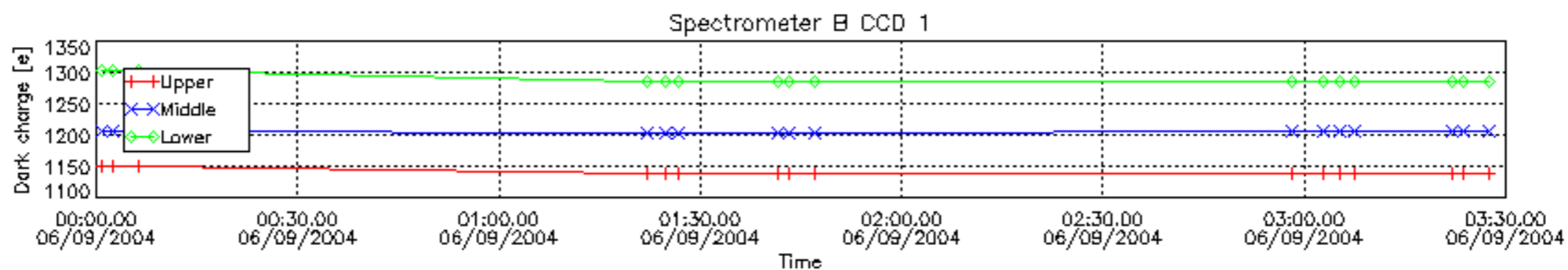
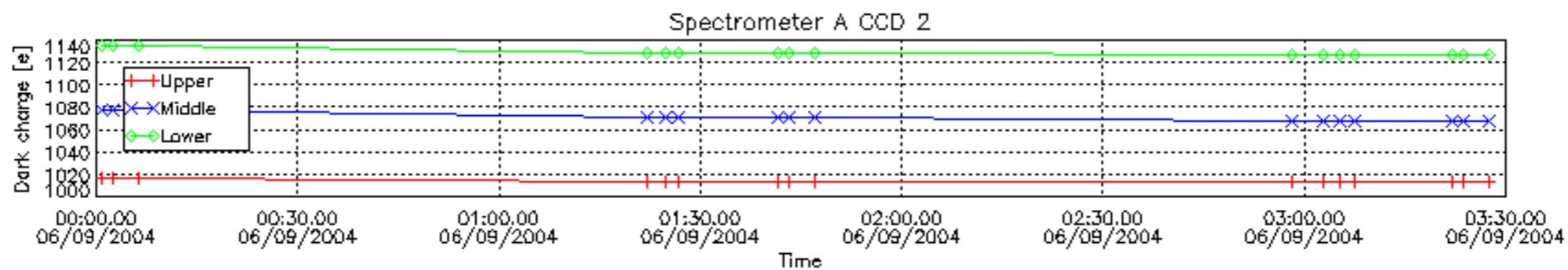
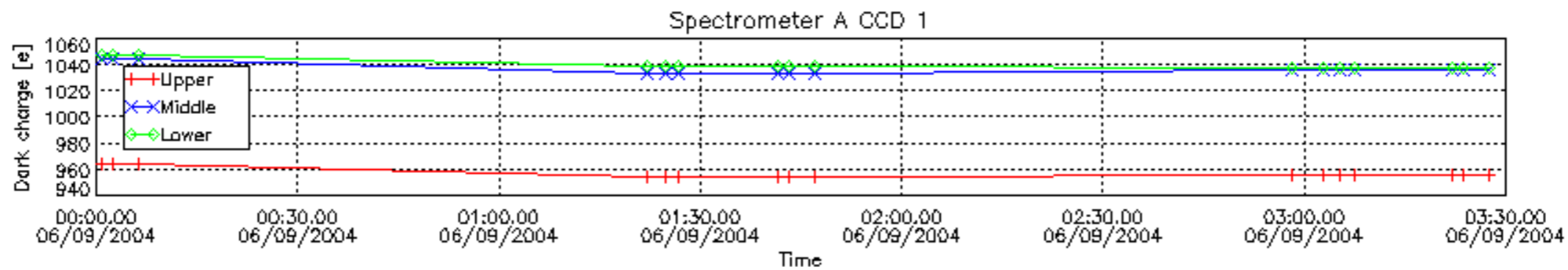


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

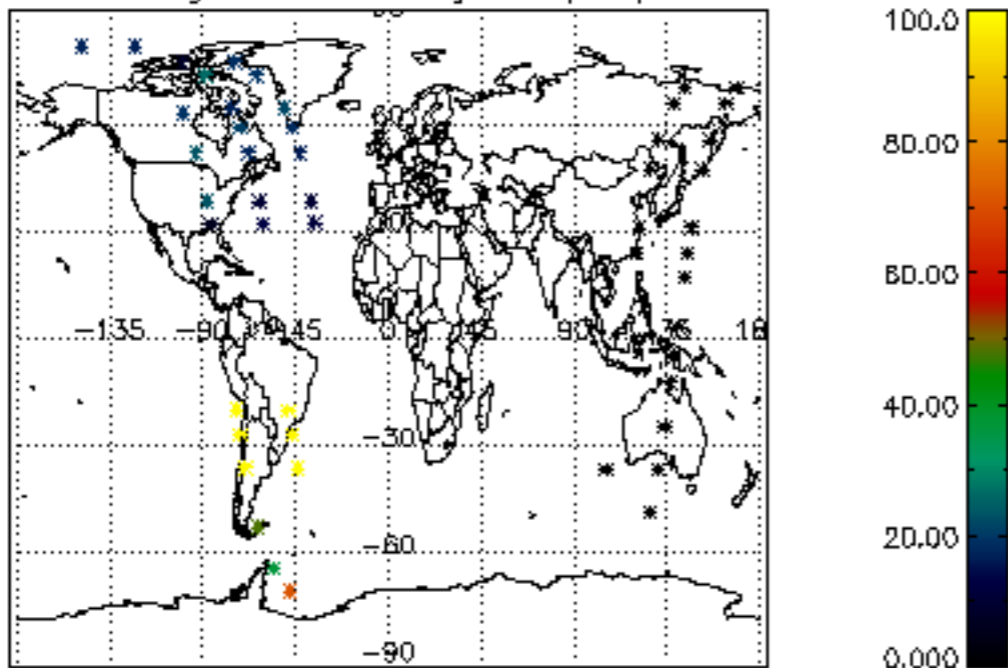
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.7	1446.9	1461.7	1446.7
St. deviation:	3.5181	4.8100	7.1345	8.0298
Maximum:	1524.0	1475.0	1503.0	1498.0
Minimum:	1442.0	1418.0	1434.0	1420.0
Number of data:	21650.	21650.	31550.	31550.

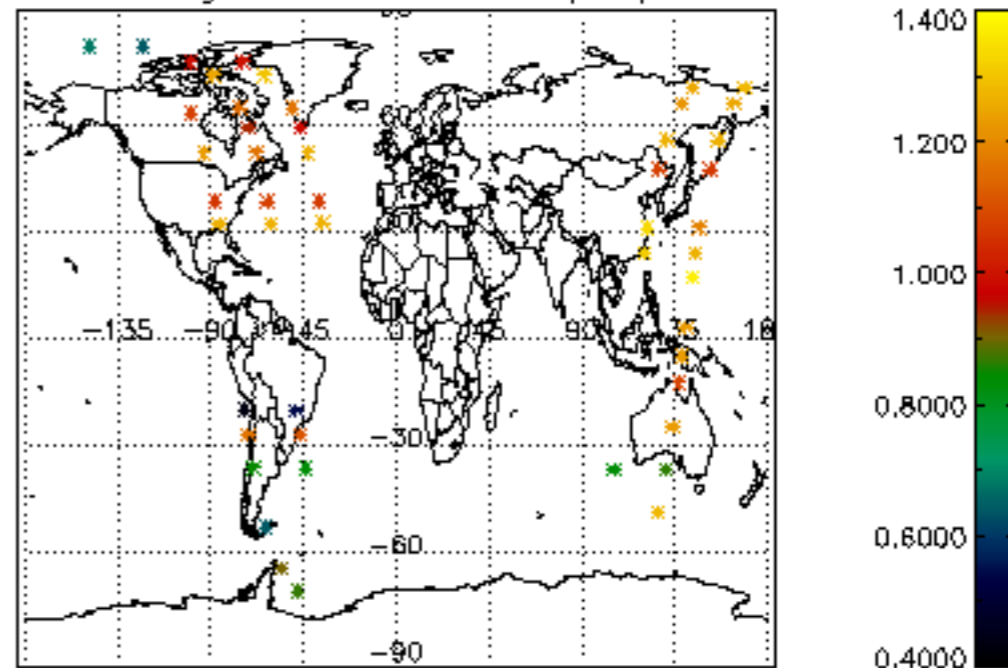




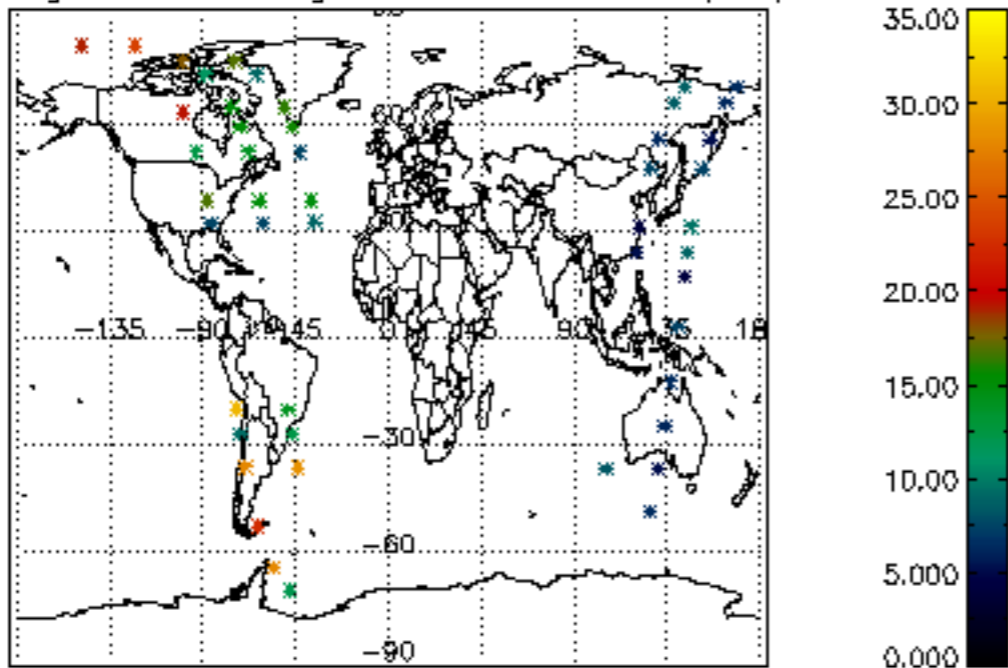
Percentage of cosmic ray hits per profile



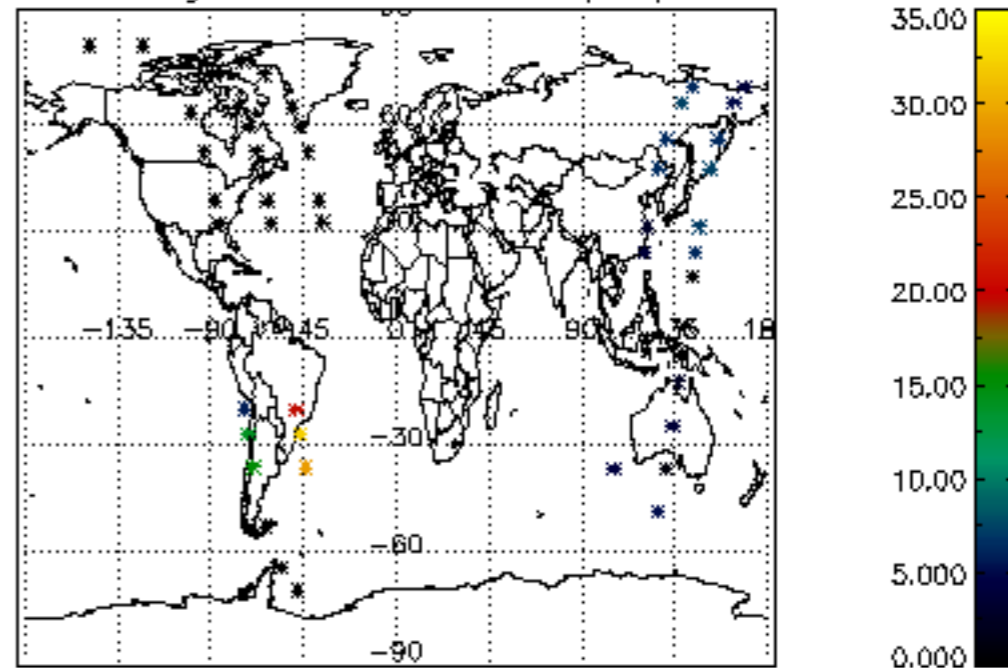
Percentage of datation errors per profile



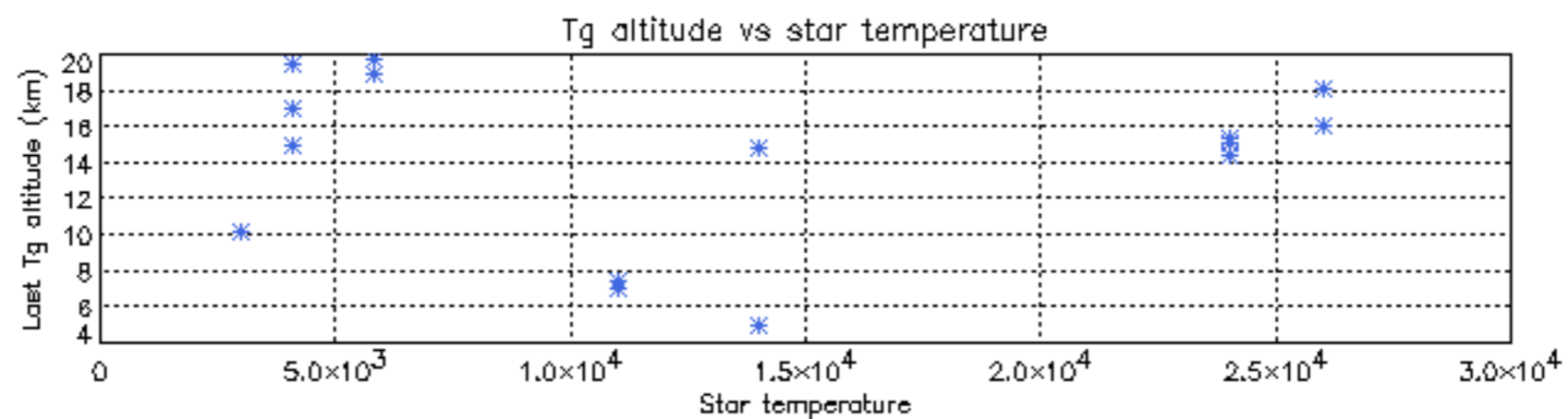
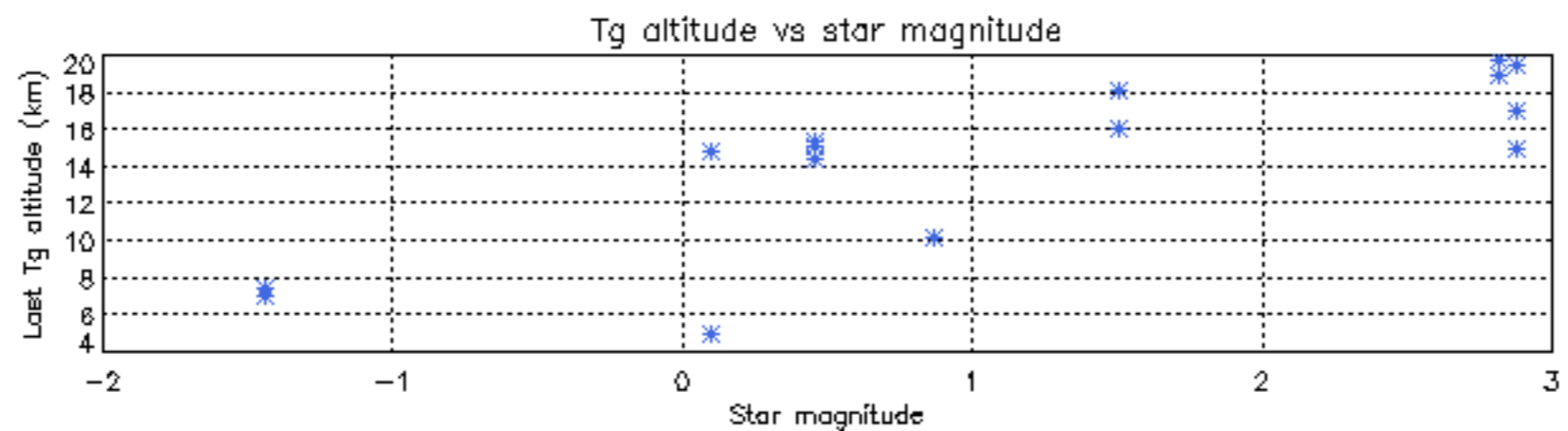
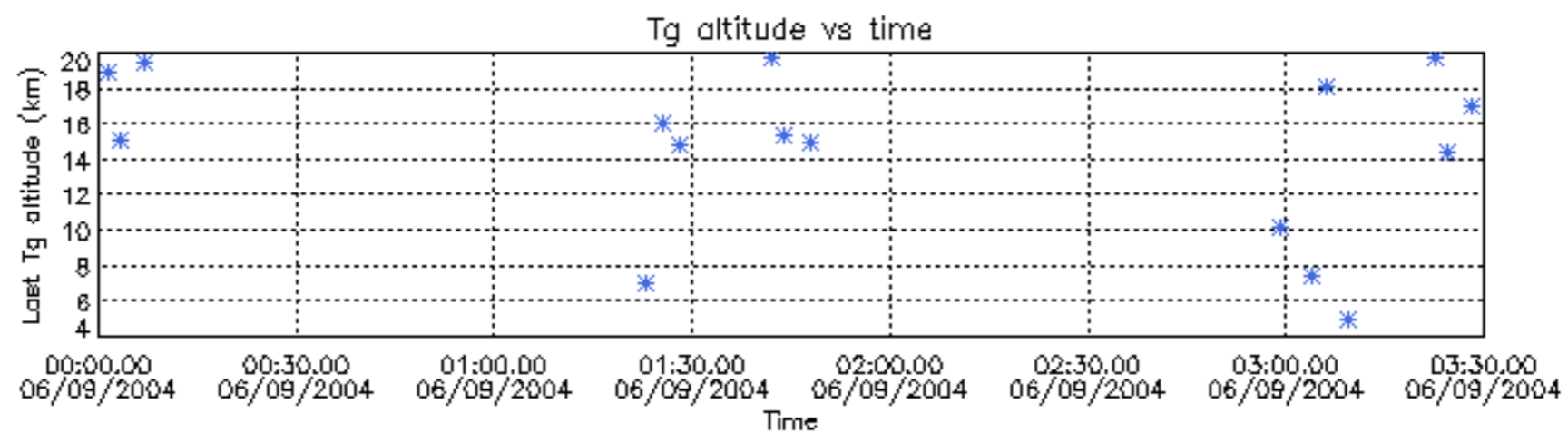
Percentage of star falling outside central band per profile



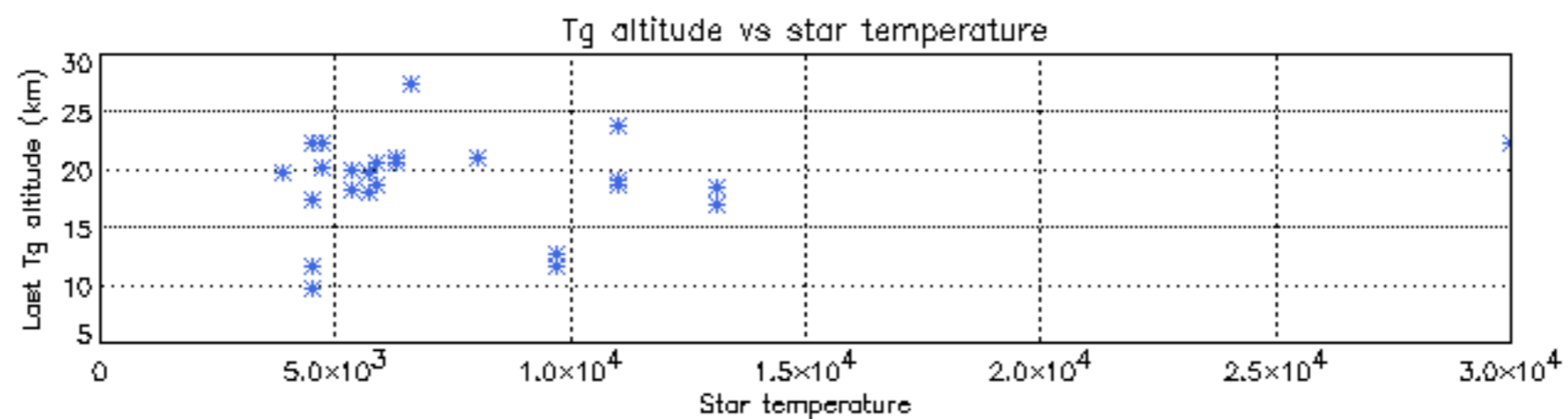
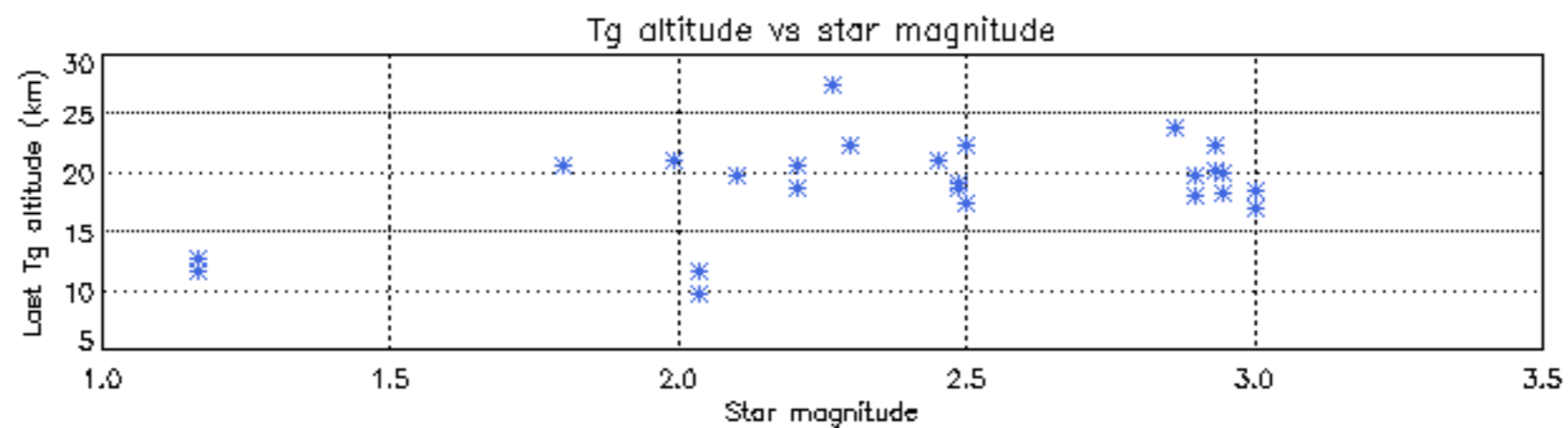
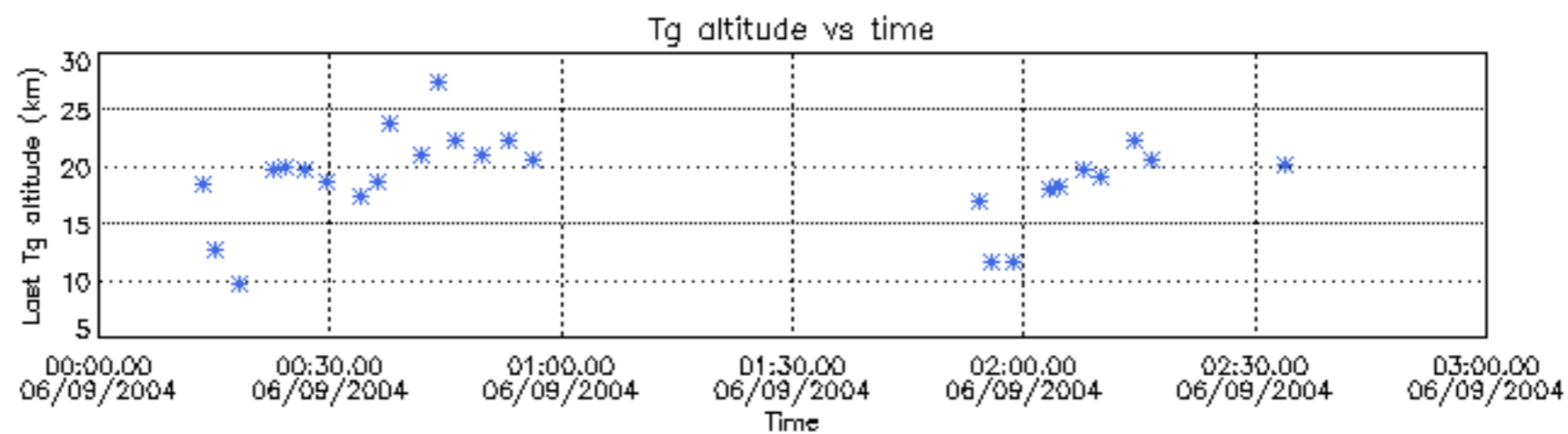
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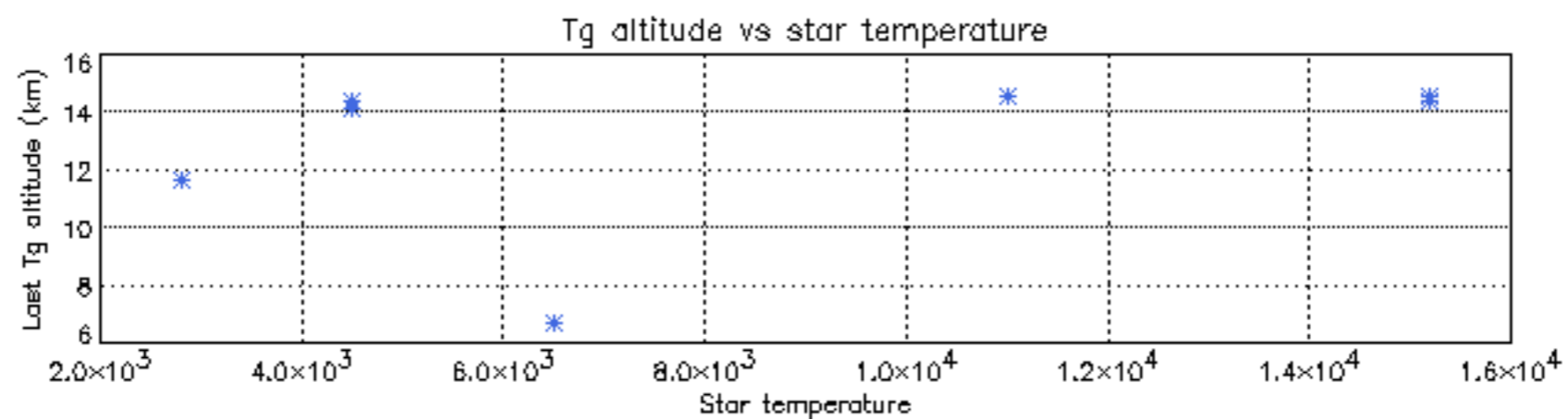
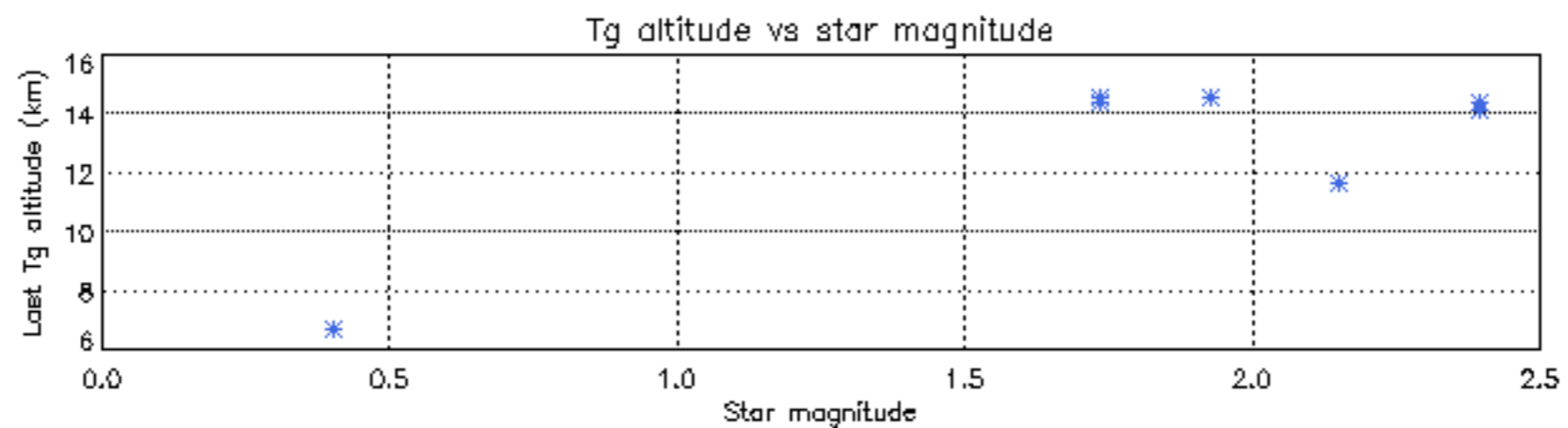
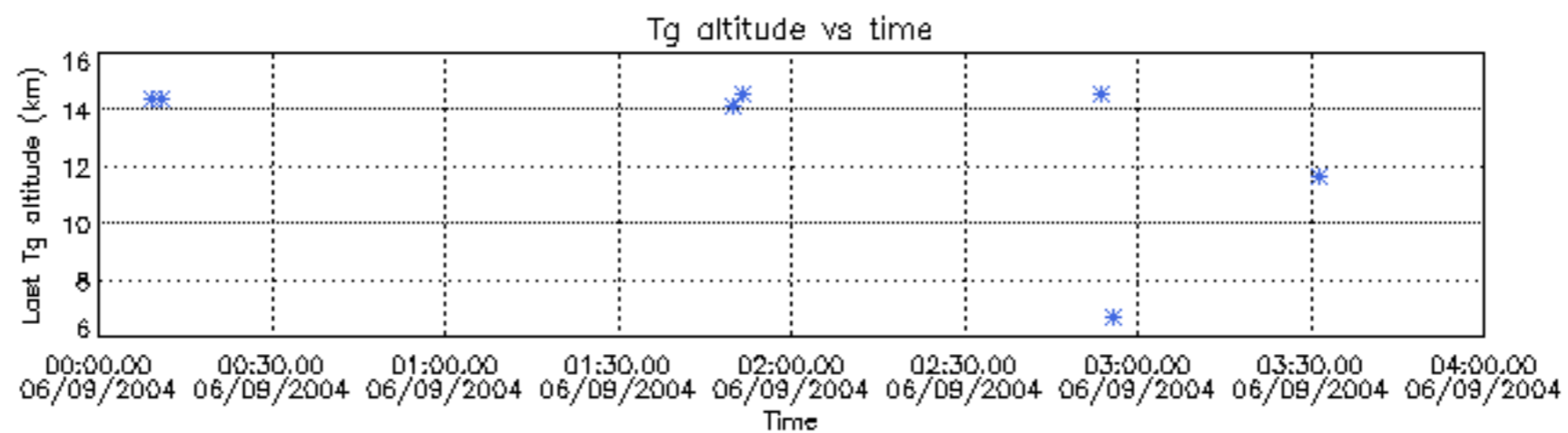
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Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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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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25; 3993.4; 01-OCT-2004 01:12:41; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;13526
26; 4187.2; 01-OCT-2004 01:15:55; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;13526
27; 4331.9; 01-OCT-2004 01:18:20; Bright; 90.5; 107; 37The Aur ; 2.65; 11000;occ; 181; 0;13526
28; 4512.4; 01-OCT-2004 01:21:20; Bright; 58.0; 24; 66Alp Gem ; 1.58; 10200;occ; 116; 0;13526
29; 4800.5; 01-OCT-2004 01:26:08; Dark ; 106.0; 170; 27Eps Gem ; 3.00; 9700;occ; 212; 0;13526
30; 5167.5; 01-OCT-2004 01:32:15; Dark ; 72.0; 8; 10Alp CMi ; 0.40; 6500;occ; 144; 0;13526
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