

GOMOS Daily Report 10-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	17SEP2004 10:09:18
Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-7D (10SEP2004 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-7D (11SEP2004 00:00:00)

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

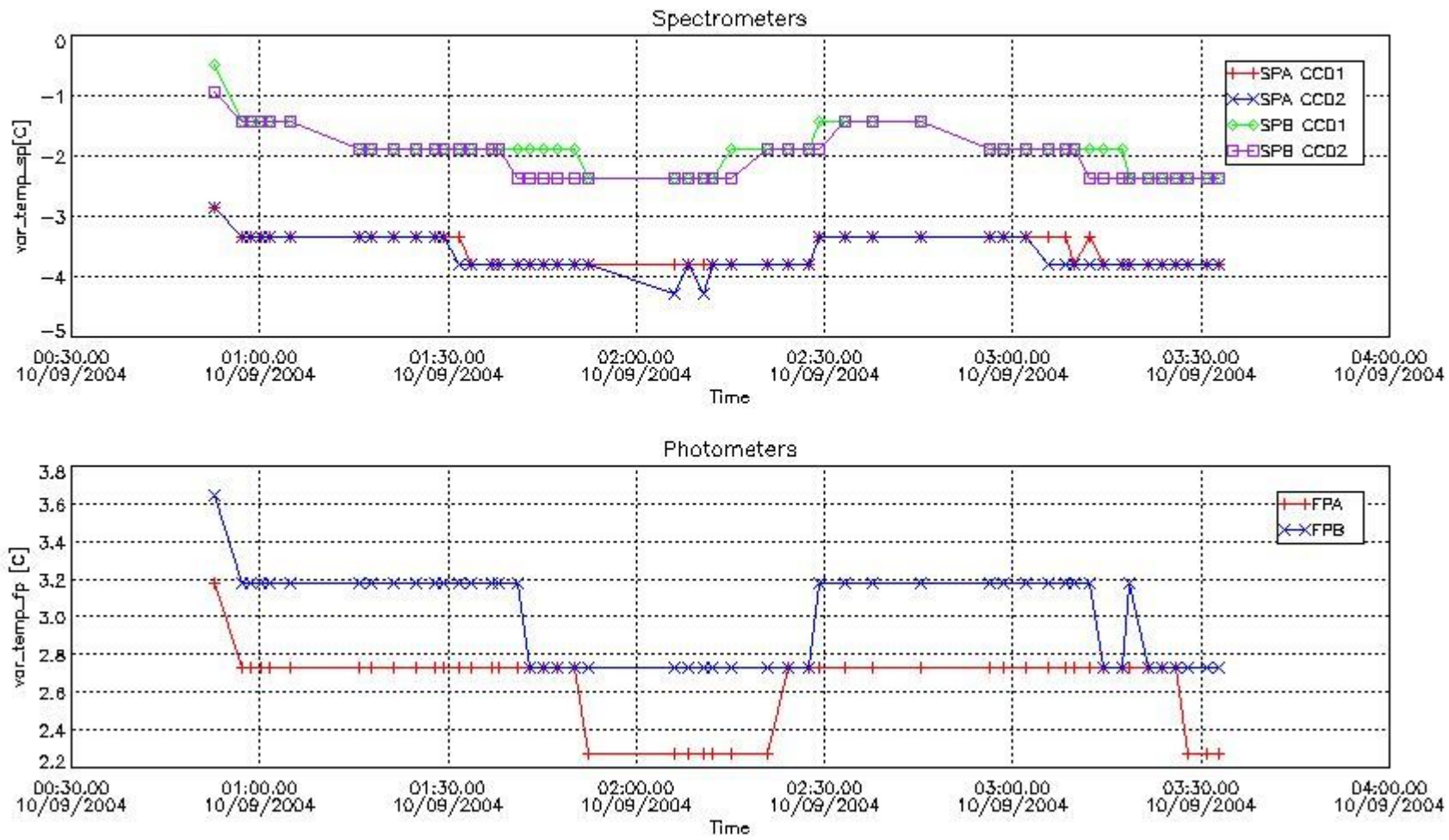
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040910_005244_000000942030_00145_13225_0000.N1	10-SEP-2004 00:52:44	Dark	93.500	14	58Alp Ori	0.87000	3000.0	187	13225	Yes
GOM_TRA_1PNPDE20040910_005705_000000662030_00145_13225_0001.N1	10-SEP-2004 00:57:05	Dark	66.000	1	9Alp CMa	-1.4400	11000.	132	13225	No
GOM_TRA_1PNPDE20040910_005840_000000422030_00145_13225_0002.N1	10-SEP-2004 00:58:40	Dark	41.500	88	31Eta CMa	2.4480	20000.	83	13225	No
GOM_TRA_1PNPDE20040910_010019_000000402030_00145_13225_0003.N1	10-SEP-2004 01:00:19	Dark	39.500	70	Zet Pup	2.2460	39000.	79	13225	No
GOM_TRA_1PNPDE20040910_010141_000000492030_00145_13225_0004.N1	10-SEP-2004 01:01:41	Dark	48.500	177	1Zet CMa	3.0220	26000.	97	13225	No
GOM_TRA_1PNPDE20040910_010448_000000432030_00145_13225_0005.N1	10-SEP-2004 01:04:48	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	13225	No
GOM_TRA_1PNPDE20040910_011546_000000392030_00146_13226_0006.N1	10-SEP-2004 01:15:46	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	13226	No
GOM_TRA_1PNPDE20040910_011749_000000472030_00146_13226_0007.N1	10-SEP-2004 01:17:49	Dark	47.000	9	Alp Eri	0.45300	24000.	94	13226	No
GOM_TRA_1PNPDE20040910_012121_000000422030_00146_13226_0008.N1	10-SEP-2004 01:21:21	Dark	42.000	148	Alp Tuc	2.8780	4100.0	84	13226	No
GOM_TRA_1PNPDE20040910_012502_000000422030_00146_13226_0009.N1	10-SEP-2004 01:25:02	Twilight	41.500	31	Alp Gru	1.7340	15200.	83	13226	No
GOM_TRA_1PNPDE20040910_012750_000000402030_00146_13226_0010.N1	10-SEP-2004 01:27:50	Bright	39.500	172	Gam Gru	3.0030	13100.	79	13226	No
GOM_TRA_1PNPDE20040910_012909_000000512030_00146_13226_0011.N1	10-SEP-2004 01:29:09	Bright	51.000	18	24Alp PsA	1.1660	9700.0	102	13226	No
GOM_TRA_1PNPDE20040910_013143_000000712030_00146_13226_0012.N1	10-SEP-2004 01:31:43	Bright	71.000	52	16Bet Cet	2.0370	4500.0	142	13226	No
GOM_TRA_1PNPDE20040910_013347_000000432030_00146_13226_0013.N1	10-SEP-2004 01:33:47	Bright	43.000	142	49Del Cap	2.8500	8900.0	86	13226	No
GOM_TRA_1PNPDE20040910_013652_000000402030_00146_13226_0014.N1	10-SEP-2004 01:36:52	Bright	40.000	154	22Bet Aqr	2.8990	5700.0	80	13226	No
GOM_TRA_1PNPDE20040910_013806_000000402030_00146_13226_0015.N1	10-SEP-2004 01:38:06	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	13226	No
GOM_TRA_1PNPDE20040910_014105_000000402030_00146_13226_0016.N1	10-SEP-2004 01:41:05	Bright	39.500	61	8Eps Peg	2.1000	3900.0	79	13226	No
GOM_TRA_1PNPDE20040910_014306_000000442030_00146_13226_0017.N1	10-SEP-2004 01:43:06	Bright	43.500	90	54Alp Peg	2.4870	11000.	87	13226	No
GOM_TRA_1PNPDE20040910_014517_000000572030_00146_13226_0018.N1	10-SEP-2004 01:45:17	Bright	56.500	140	88Gam Peg	2.8340	26000.	113	13226	No
GOM_TRA_1PNPDE20040910_014719_000000422030_00146_13226_0019.N1	10-SEP-2004 01:47:19	Bright	41.500	164	44Eta Peg	2.9480	5400.0	83	13226	No
GOM_TRA_1PNPDE20040910_015013_000000422030_00146_13226_0020.N1	10-SEP-2004 01:50:13	Bright	41.500	66	37Gam Cyg	2.2080	5900.0	83	13226	No
GOM_TRA_1PNPDE20040910_015215_000000362030_00146_13226_0021.N1	10-SEP-2004 01:52:15	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	13226	No
GOM_TRA_1PNPDE20040910_020606_000000622030_00146_13226_0000.N1	10-SEP-2004 02:06:06	Bright	61.500	160	23Gam Per	2.9300	4700.0	123	13226	No
GOM_TRA_1PNPDE20040910_020812_000000702030_00146_13226_0001.N1	10-SEP-2004 02:08:12	Bright	69.500	35	33Alp Per	1.7950	6250.0	139	13226	No
GOM_TRA_1PNPDE20040910_021042_000000392030_00146_13226_0002.N1	10-SEP-2004 02:10:42	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	13226	No
GOM_TRA_1PNPDE20040910_021205_000000412030_00146_13226_0003.N1	10-SEP-2004 02:12:05	Bright	40.500	82	48Bet UMa	2.3650	10600.	81	13226	No
GOM_TRA_1PNPDE20040910_021501_000000652030_00146_13226_0004.N1	10-SEP-2004 02:15:01	Bright	65.000	6	13Alp Aur	0.080000	3400.0	130	13226	No
GOM_TRA_1PNPDE20040910_022059_000000452030_00146_13226_0005.N1	10-SEP-2004 02:20:59	Twilight	44.500	24	66Alp Gem	1.5800	10200.	89	13226	No
GOM_TRA_1PNPDE20040910_022408_000000932030_00146_13226_0006.N1	10-SEP-2004 02:24:08	Twilight	92.500	28	12Bet Tau	1.6500	15200.	185	13226	No
GOM_TRA_1PNPDE20040910_022725_000000632030_00146_13226_0007.N1	10-SEP-2004 02:27:25	Twilight	62.500	44	24Gam Gem	1.9280	11000.	125	13226	No
GOM_TRA_1PNPDE20040910_022912_000000592030_00146_13226_0008.N1	10-SEP-2004 02:29:12	Twilight	58.500	8	10Alp CMi	0.40000	6500.0	117	13226	No
GOM_TRA_1PNPDE20040910_023321_000001052030_00146_13226_0009.N1	10-SEP-2004 02:33:21	Dark	105.00	14	58Alp Ori	0.87000	3000.0	210	13226	No
GOM_TRA_1PNPDE20040910_023741_000000632030_00146_13226_0010.N1	10-SEP-2004 02:37:41	Dark	63.000	1	9Alp CMa	-1.4400	11000.	126	13226	No
GOM_TRA_1PNPDE20040910_024524_000000422030_00146_13226_0011.N1	10-SEP-2004 02:45:24	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	13226	No
GOM_TRA_1PNPDE20040910_025622_000000402030_00147_13227_0012.N1	10-SEP-2004 02:56:22	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	13227	No
GOM_TRA_1PNPDE20040910_025826_000000472030_00147_13227_0013.N1	10-SEP-2004 02:58:26	Dark	46.500	9	Alp Eri	0.45300	24000.	93	13227	No
GOM_TRA_1PNPDE20040910_030157_000000392030_00147_13227_0014.N1	10-SEP-2004 03:01:57	Dark	39.000	148	Alp Tuc	2.8780	4100.0	78	13227	No
GOM_TRA_1PNPDE20040910_030539_000000432030_00147_13227_0015.N1	10-SEP-2004 03:05:39	Twilight	42.500	31	Alp Gru	1.7340	15200.	85	13227	No
GOM_TRA_1PNPDE20040910_030825_000000392030_00147_13227_0016.N1	10-SEP-2004 03:08:25	Bright	39.000	172	Gam Gru	3.0030	13100.	78	13227	No
GOM_TRA_1PNPDE20040910_030945_000000512030_00147_13227_0017.N1	10-SEP-2004 03:09:45	Bright	50.500	18	24Alp PsA	1.1660	9700.0	101	13227	No
GOM_TRA_1PNPDE20040910_031219_000000692030_00147_13227_0018.N1	10-SEP-2004 03:12:19	Bright	68.500	52	16Bet Cet	2.0370	4500.0	137	13227	No
GOM_TRA_1PNPDE20040910_031424_000000402030_00147_13227_0019.N1	10-SEP-2004 03:14:24	Bright	40.000	142	49Del Cap	2.8500	8900.0	80	13227	No
GOM_TRA_1PNPDE20040910_031728_000000412030_00147_13227_0020.N1	10-SEP-2004 03:17:28	Bright	40.500	154	22Bet Aqr	2.8990	5700.0	81	13227	No
GOM_TRA_1PNPDE20040910_031840_000000432030_00147_13227_0021.N1	10-SEP-2004 03:18:40	Bright	42.500	162	34Alp Aqr	2.9440	5350.0	85	13227	No
GOM_TRA_1PNPDE20040910_032141_000000412030_00147_13227_0022.N1	10-SEP-2004 03:21:41	Bright	40.500	61	8Eps Peg	2.1000	3900.0	81	13227	No
GOM_TRA_1PNPDE20040910_032339_000000472030_00147_13227_0023.N1	10-SEP-2004 03:23:39	Bright	46.500	90	54Alp Peg	2.4870	11000.	93	13227	No
GOM_TRA_1PNPDE20040910_032552_000000562030_00147_13227_0024.N1	10-SEP-2004 03:25:52	Bright	56.000	140	88Gam Peg	2.8340	26000.	112	13227	No
GOM_TRA_1PNPDE20040910_032755_000000422030_00147_13227_0025.N1	10-SEP-2004 03:27:55	Bright	41.500	164	44Eta Peg	2.9480	5400.0	83	13227	No
GOM_TRA_1PNPDE20040910_033051_000000382030_00147_13227_0026.N1	10-SEP-2004 03:30:51	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	13227	No

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



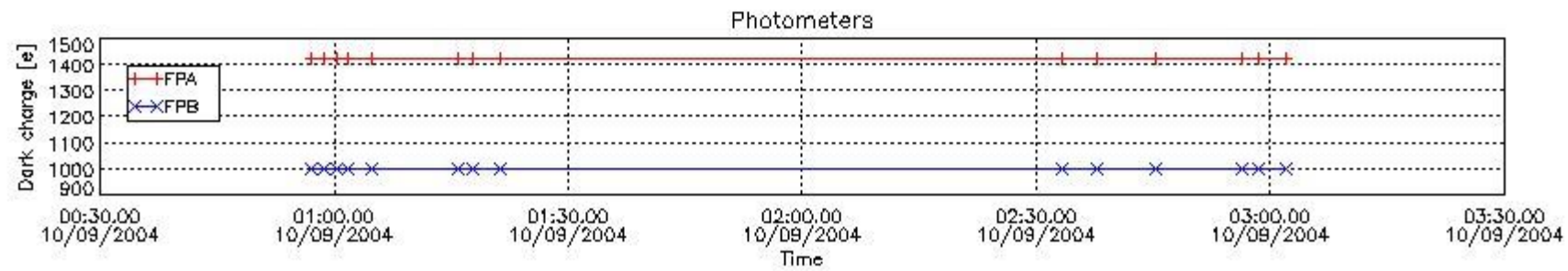
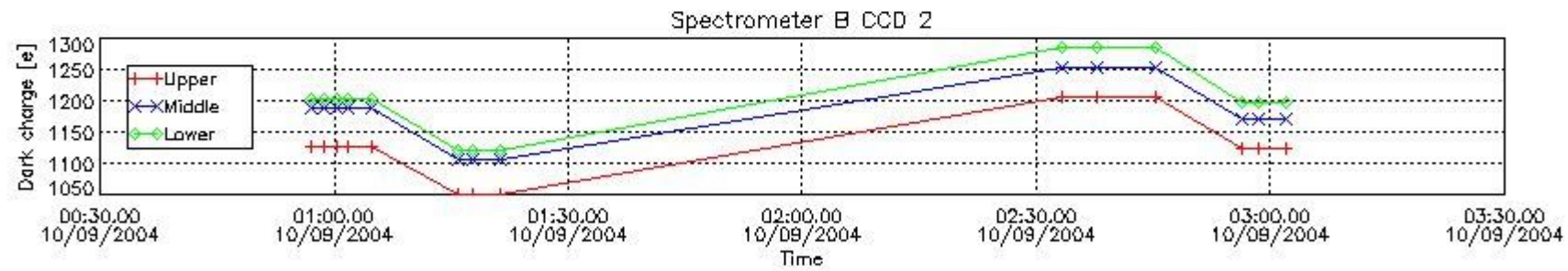
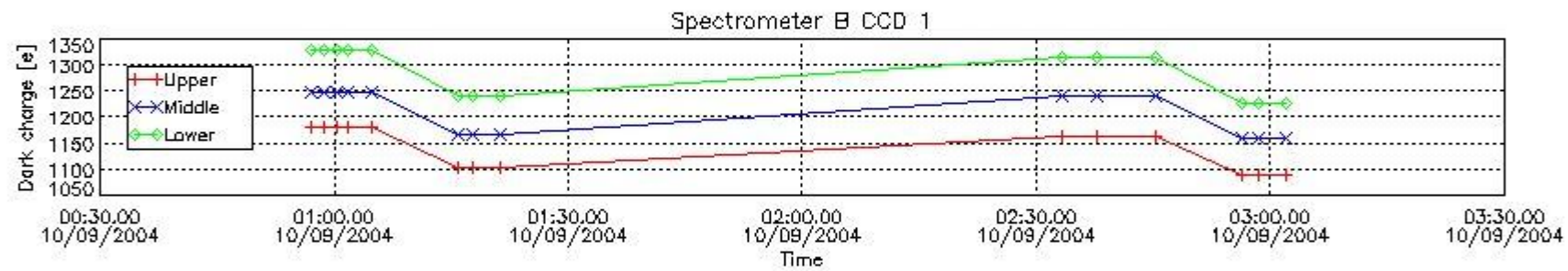
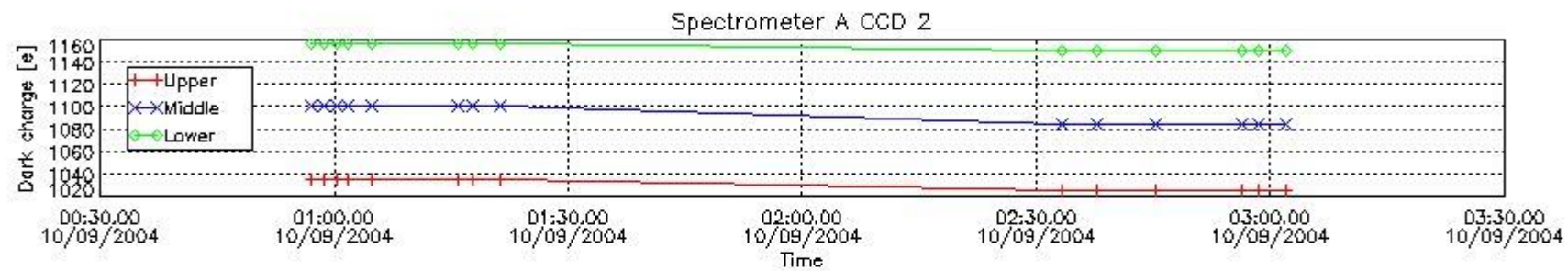
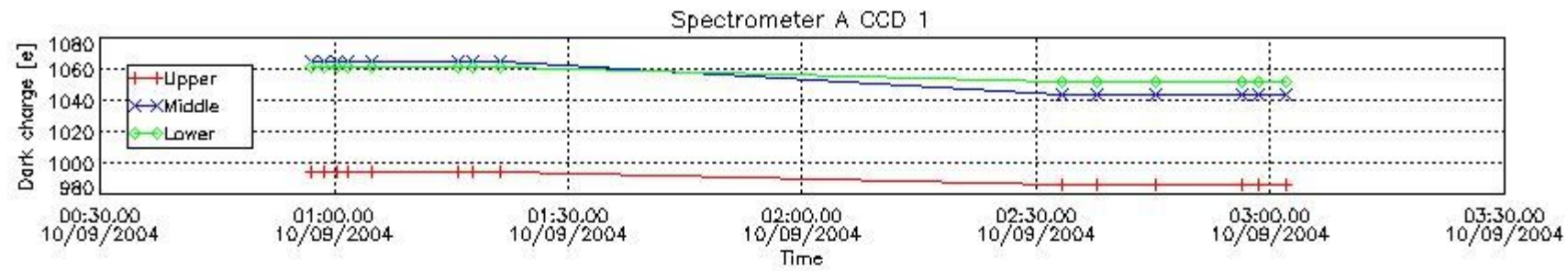
4. Overview of dark signal processing per product

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



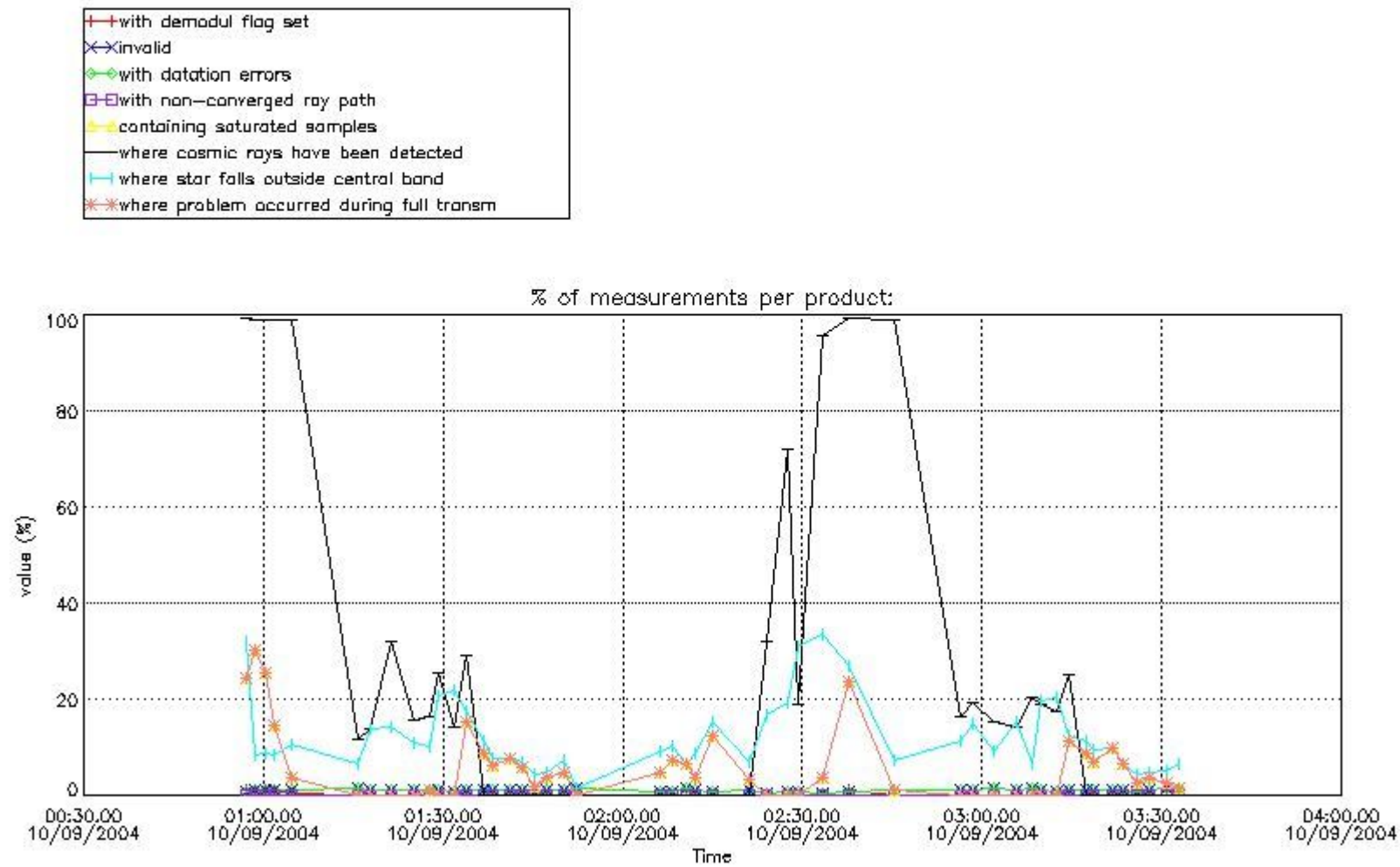
5. Demodulation flag and quality information monitoring

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.

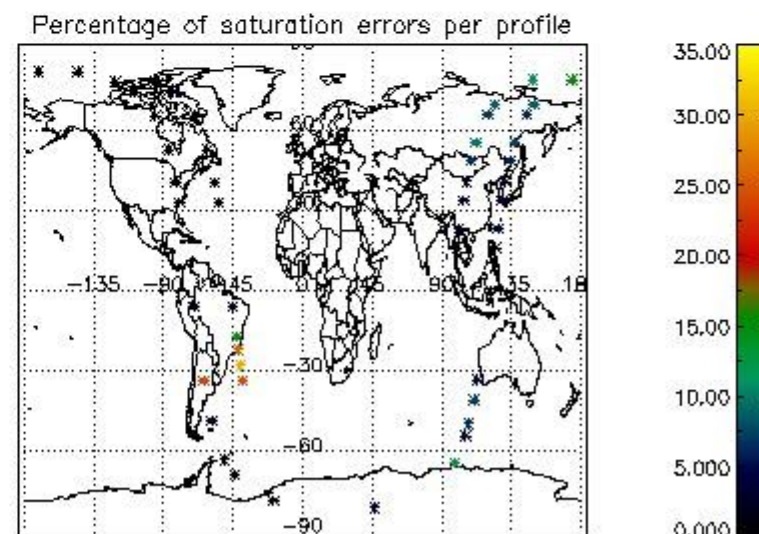
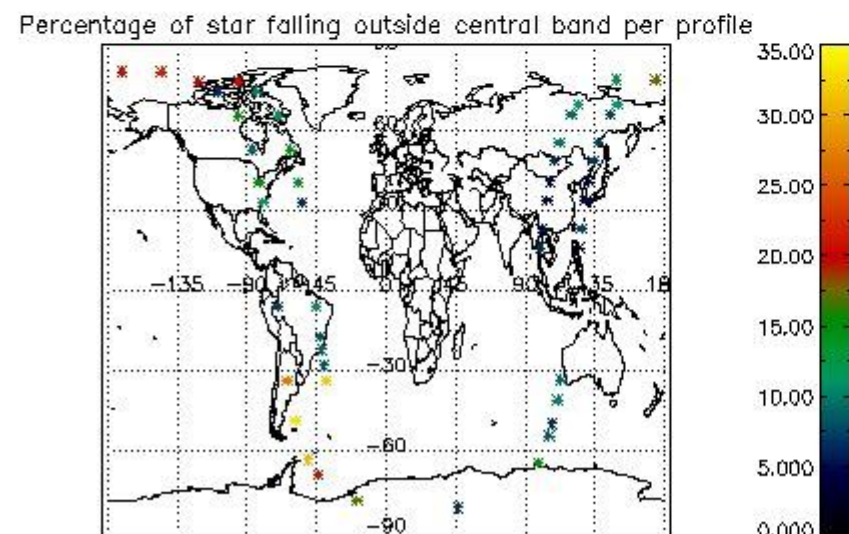
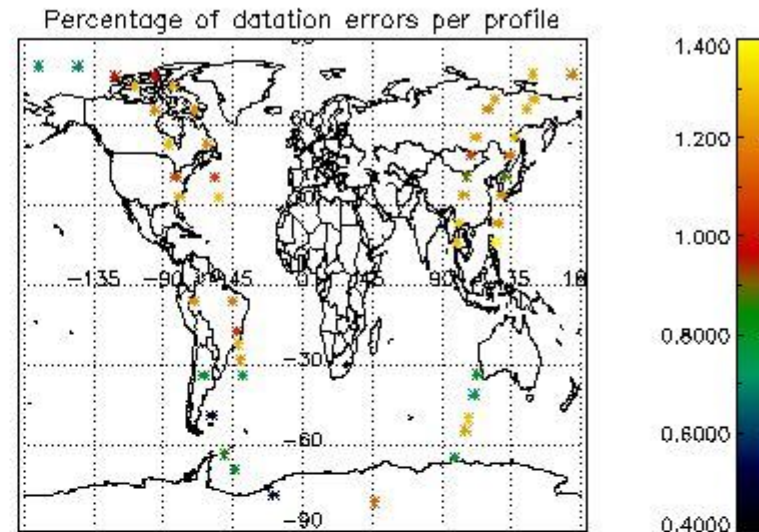
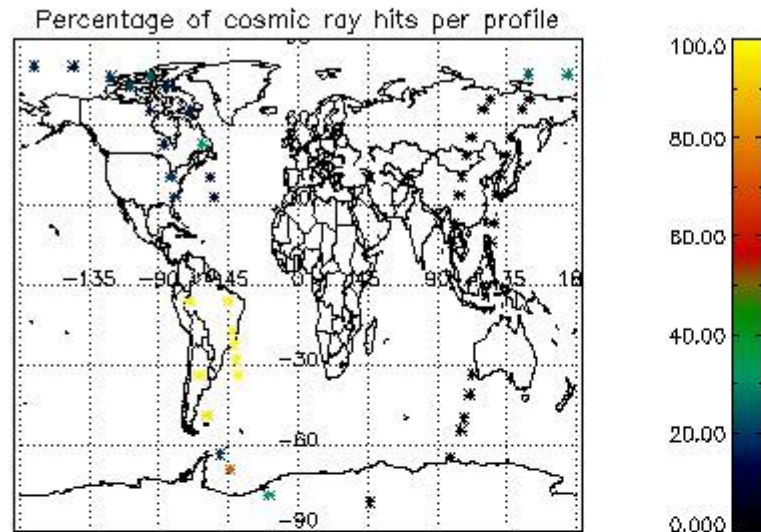
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.3673 %
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)



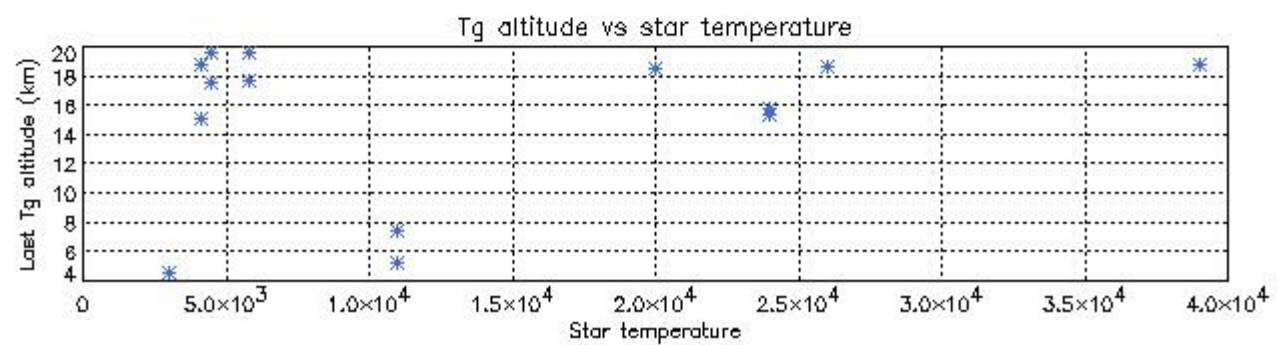
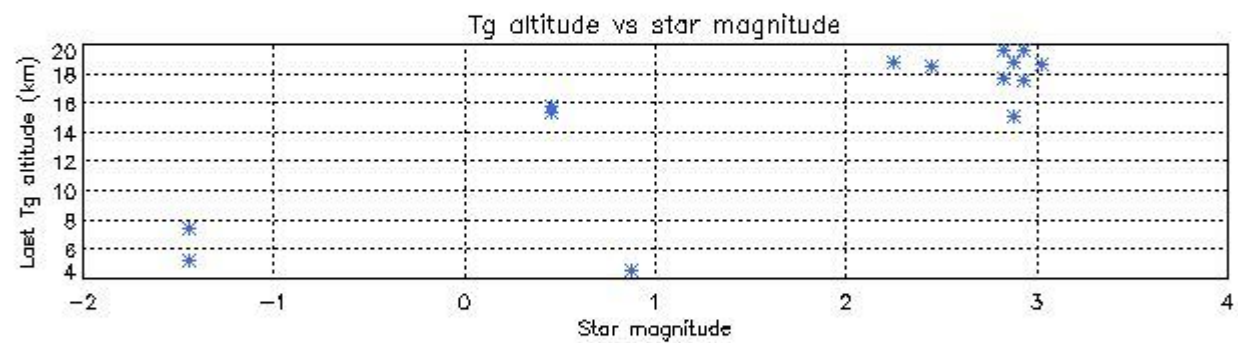
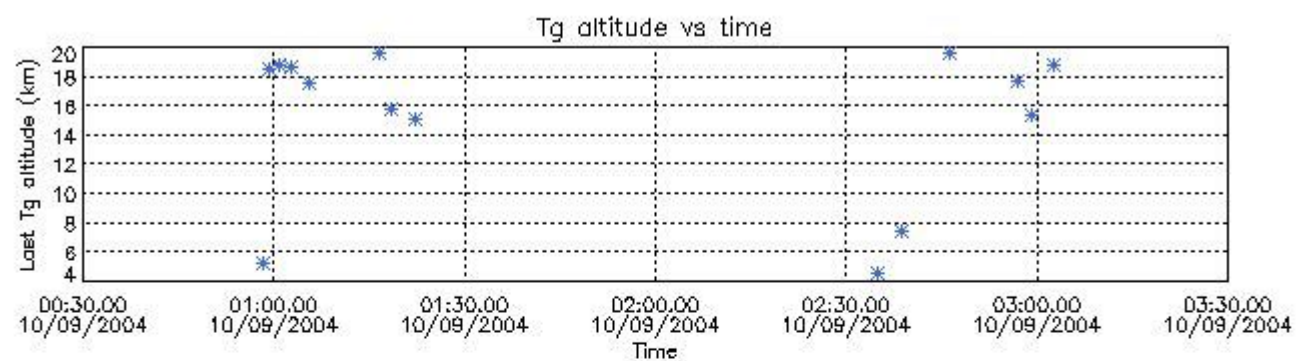
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.164	18.067	13.408
St. deviation:	5.3367	3.9589	4.5285
Maximum:	19.617	25.939	18.411
Minimum:	4.5869	10.322	5.7669
Number of data:	14.000	29.000	6.0000

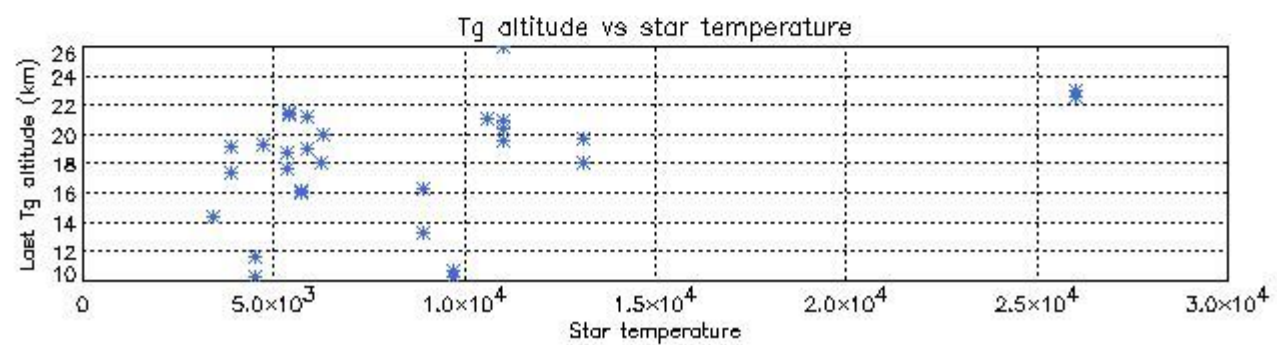
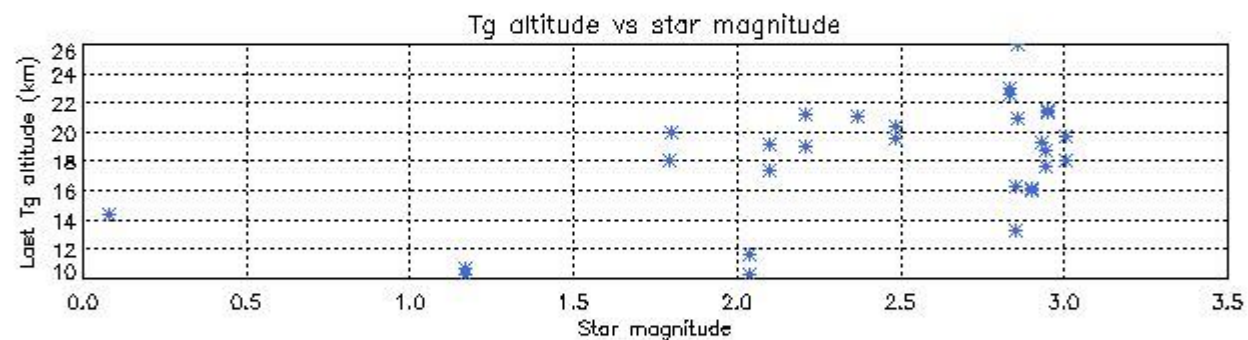
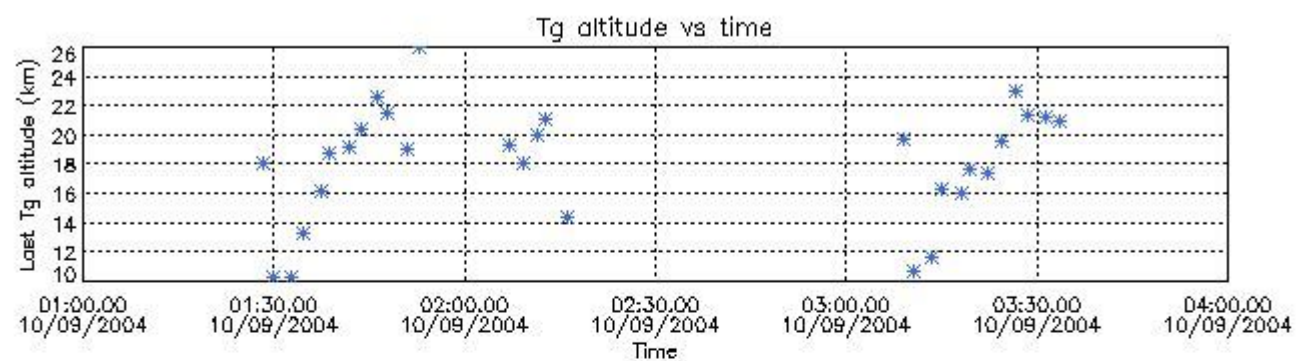
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



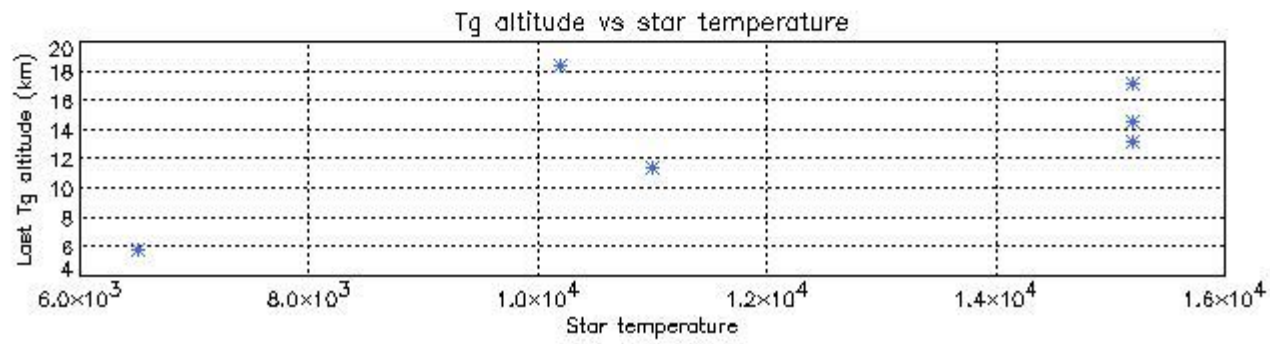
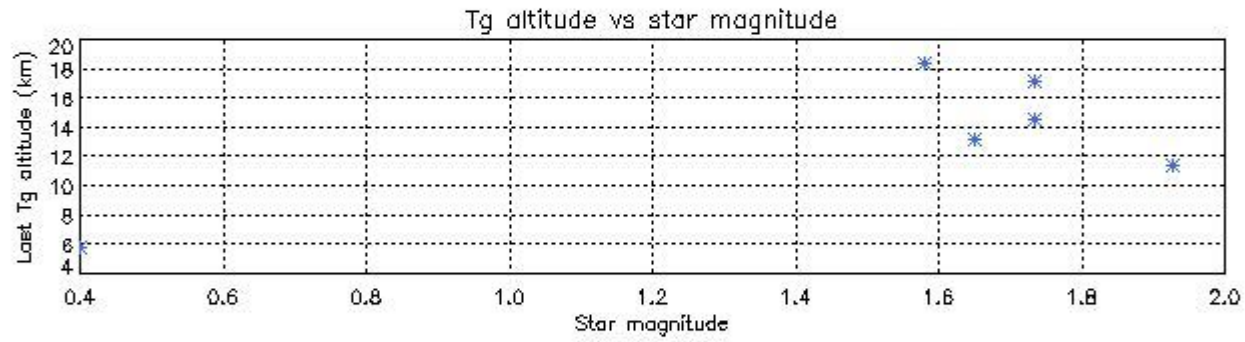
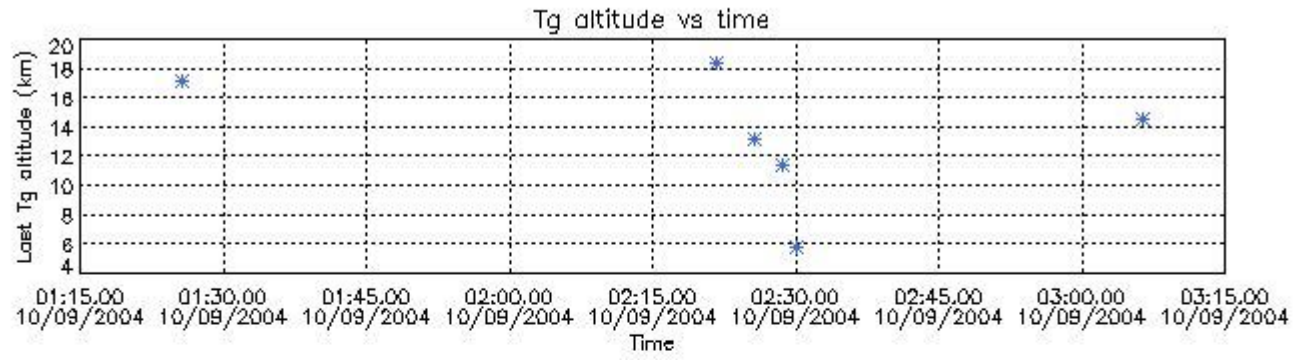
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

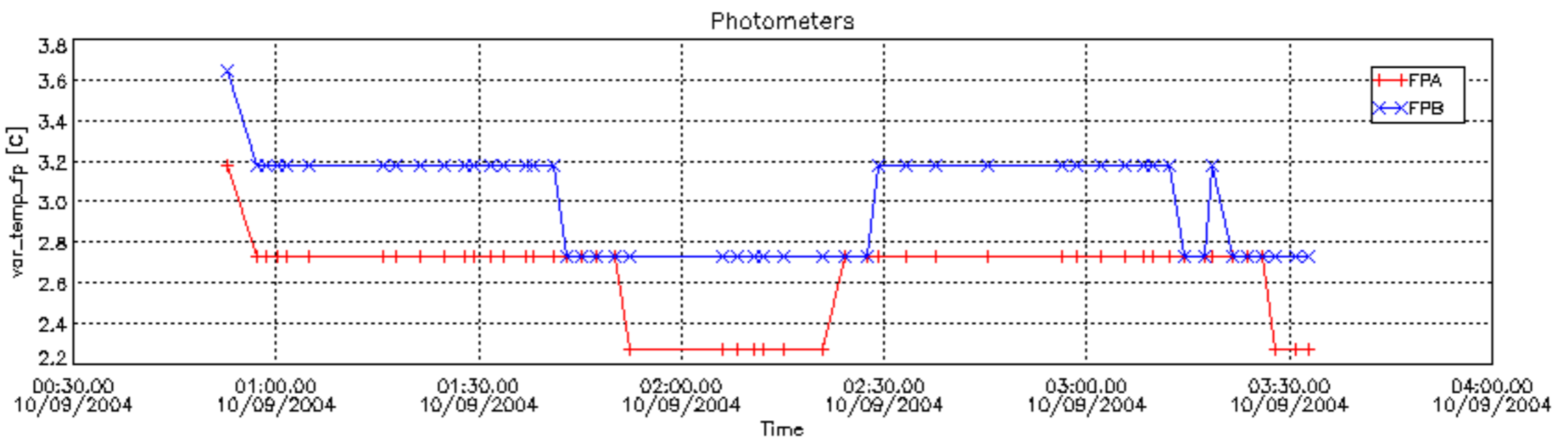
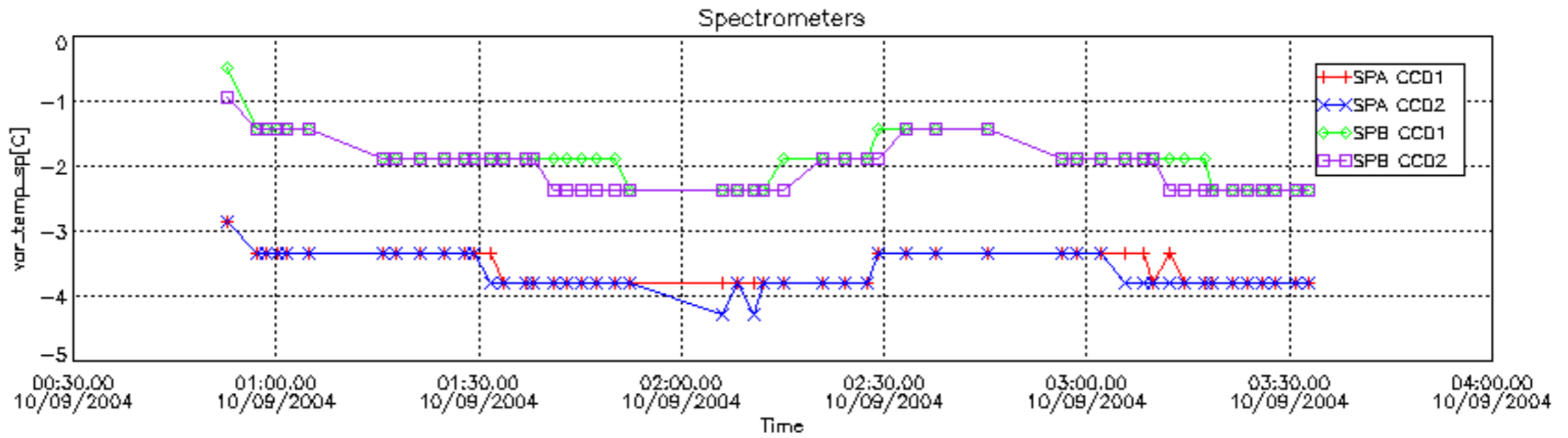
Tangent altitude at which the star is lost

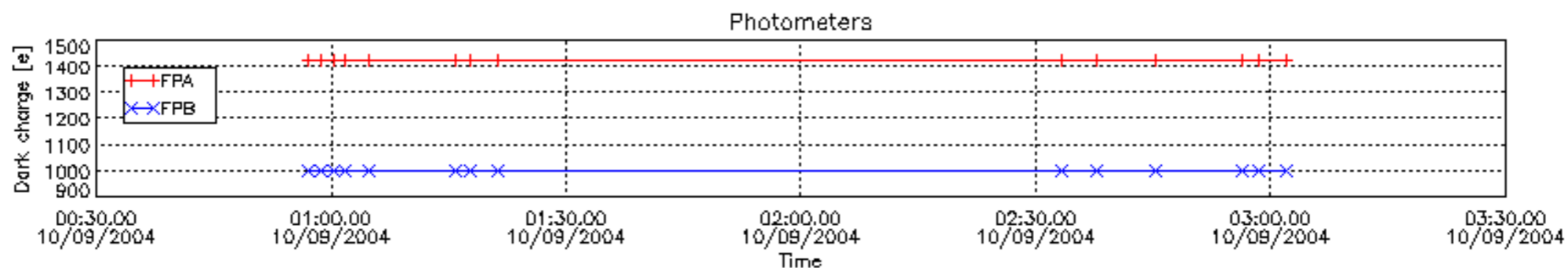
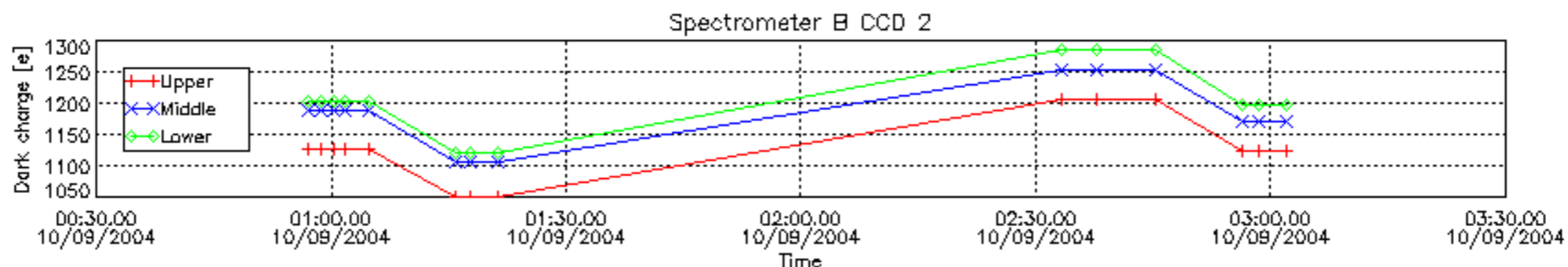
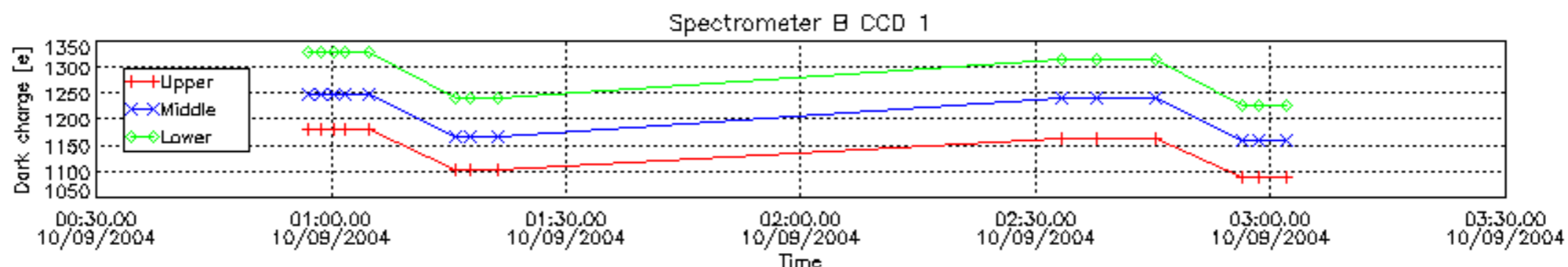
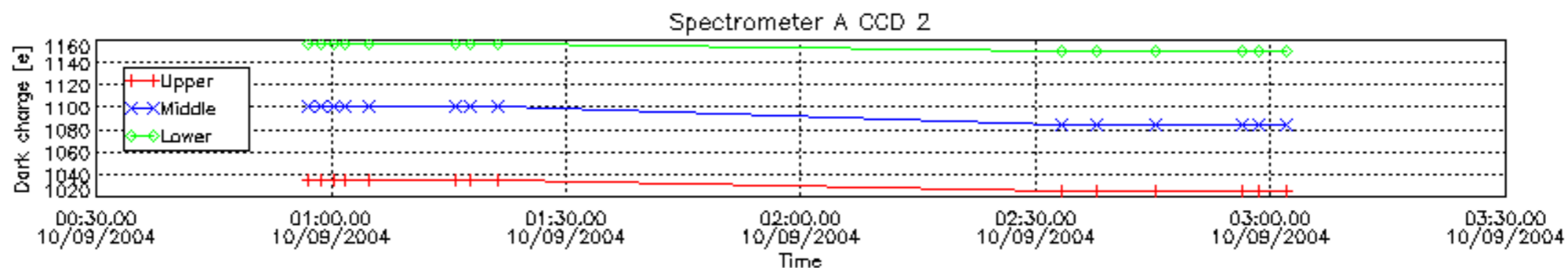
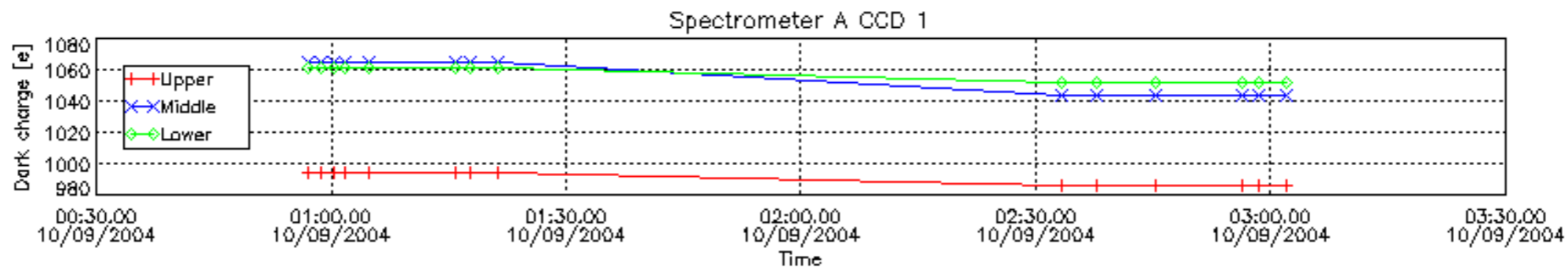


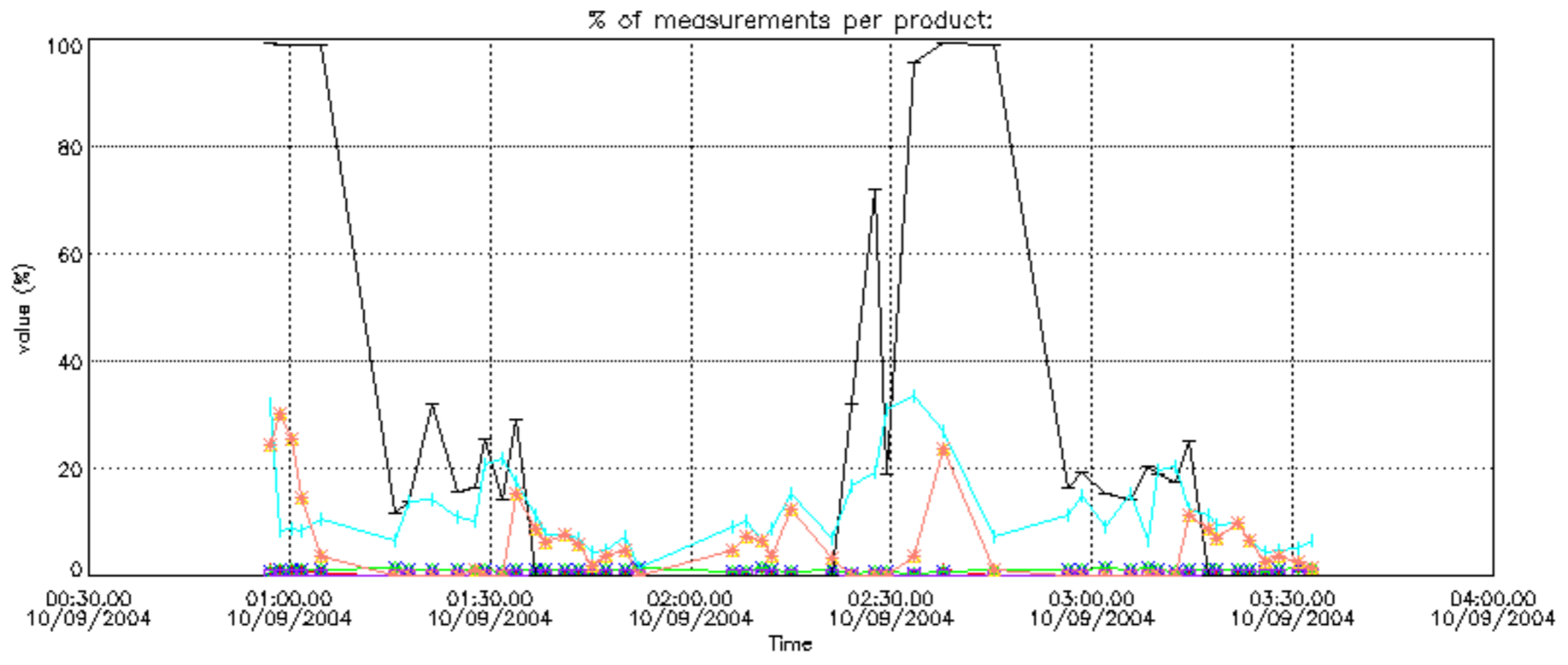
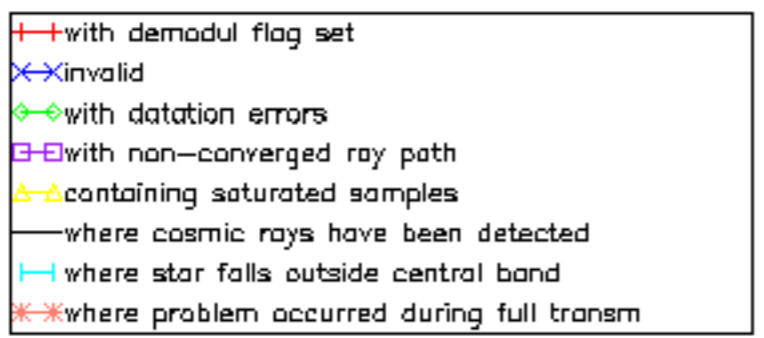
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

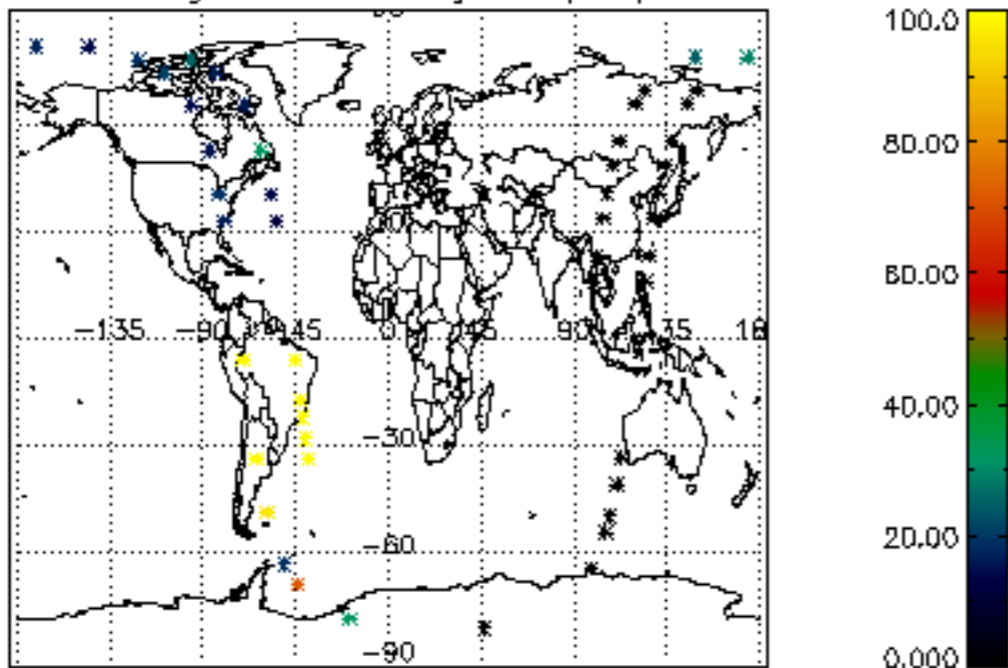
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.0	1446.7	1461.5	1447.5
St. deviation:	5.8937	6.9525	8.1301	9.0545
Maximum:	1814.0	1781.0	1524.0	1513.0
Minimum:	1446.0	1430.0	1405.0	1403.0
Number of data:	17400.	17400.	35800.	35800.



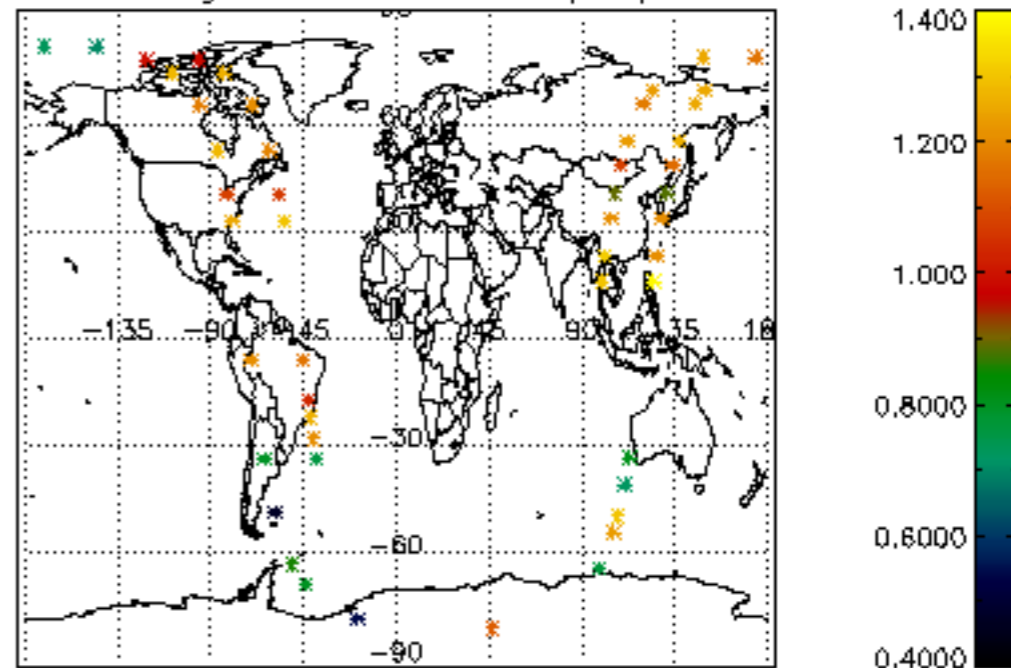




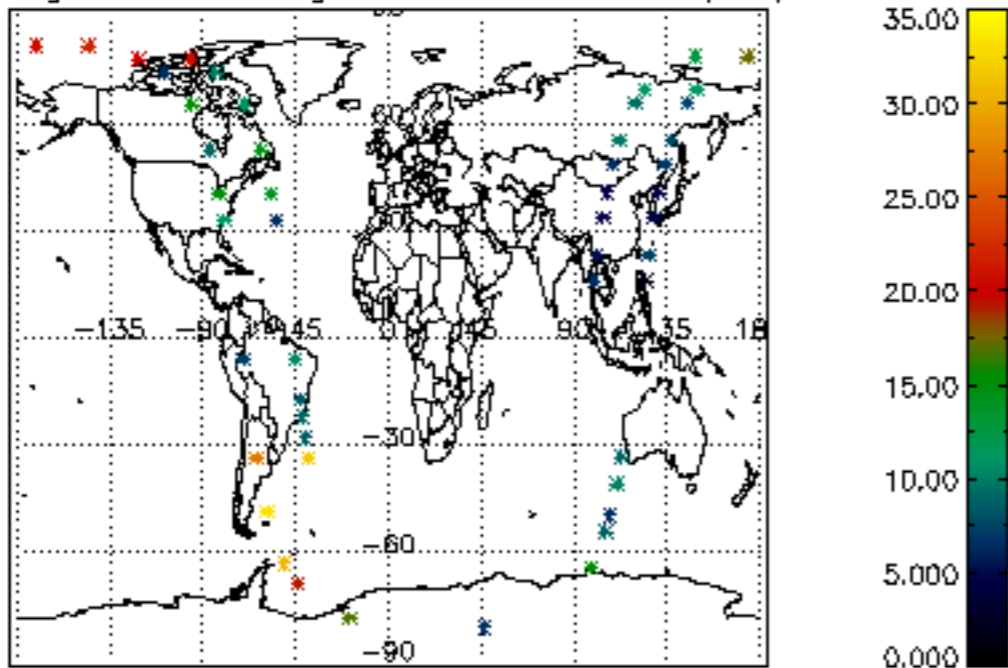
Percentage of cosmic ray hits per profile



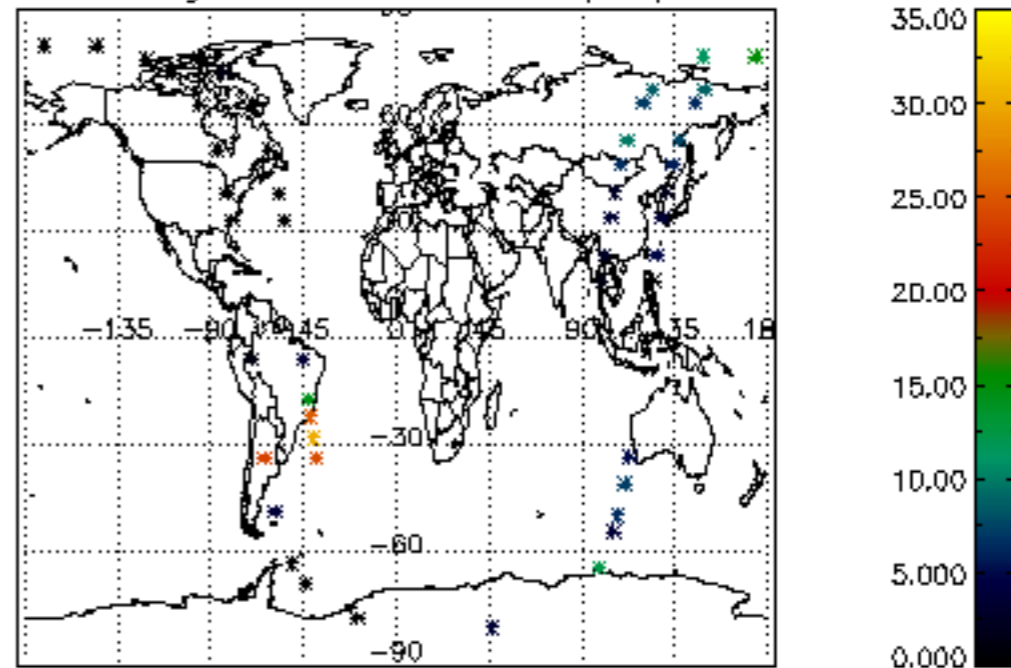
Percentage of datation errors per profile



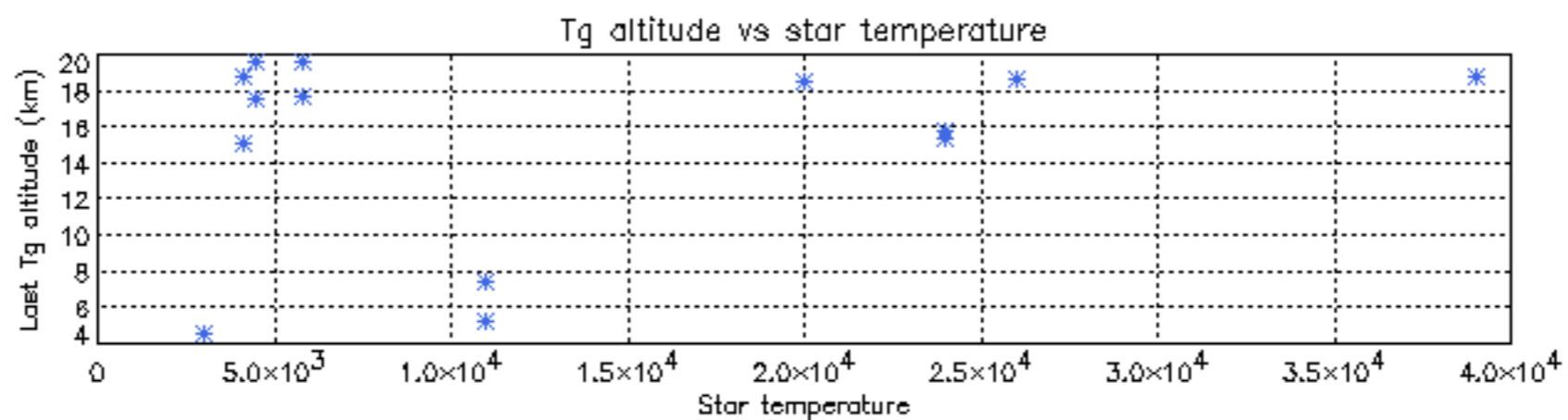
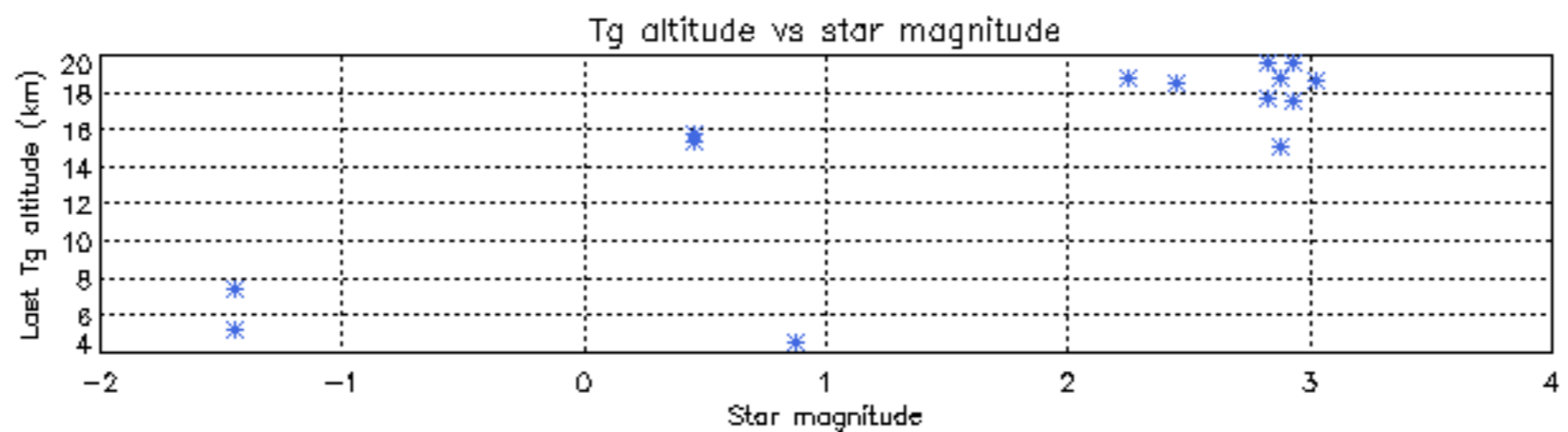
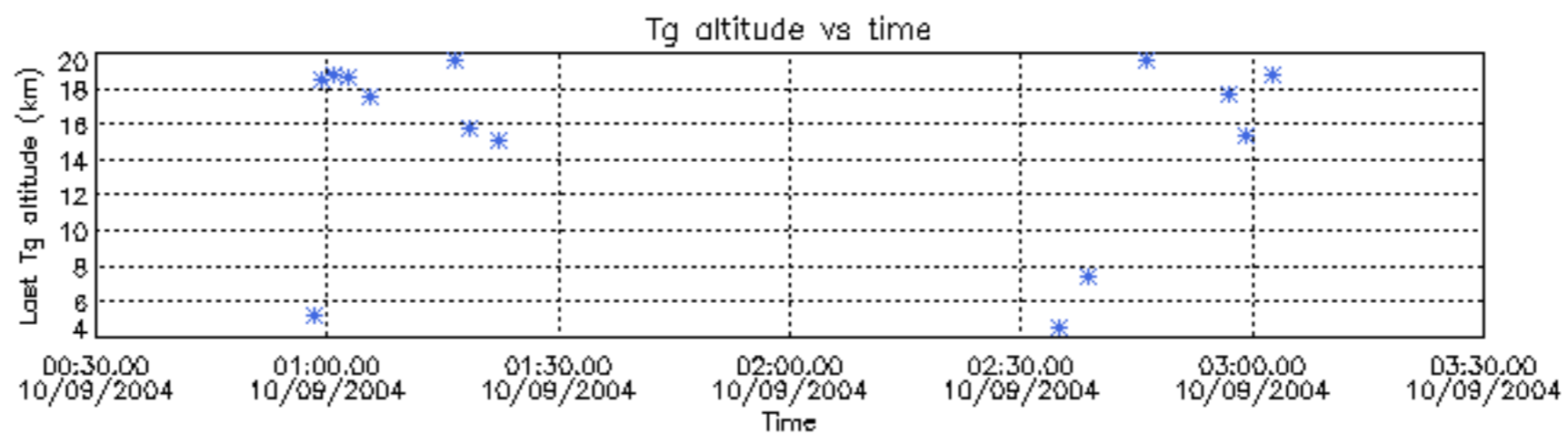
Percentage of star falling outside central band per profile



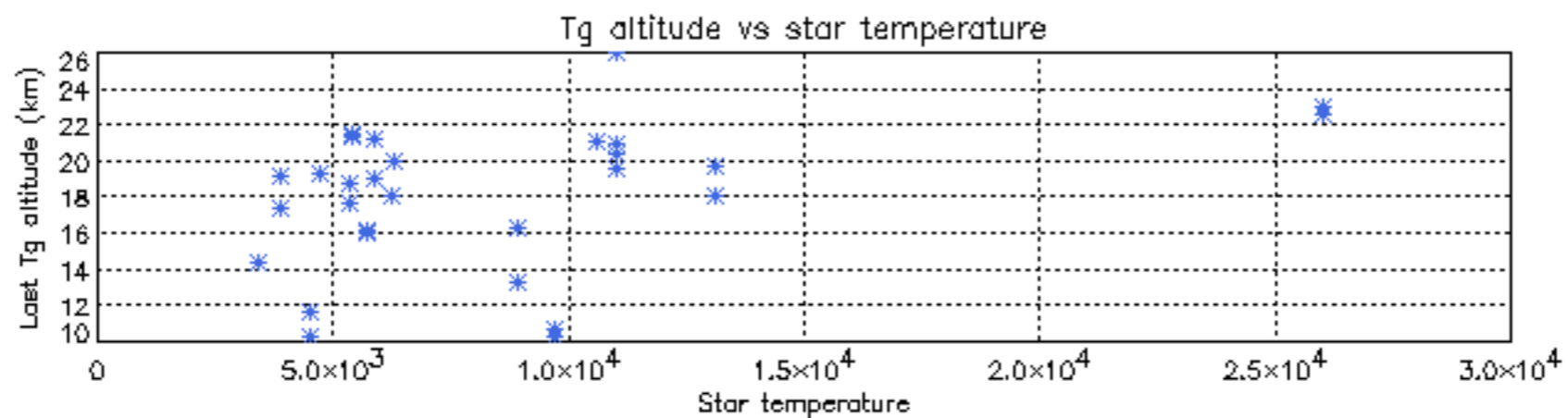
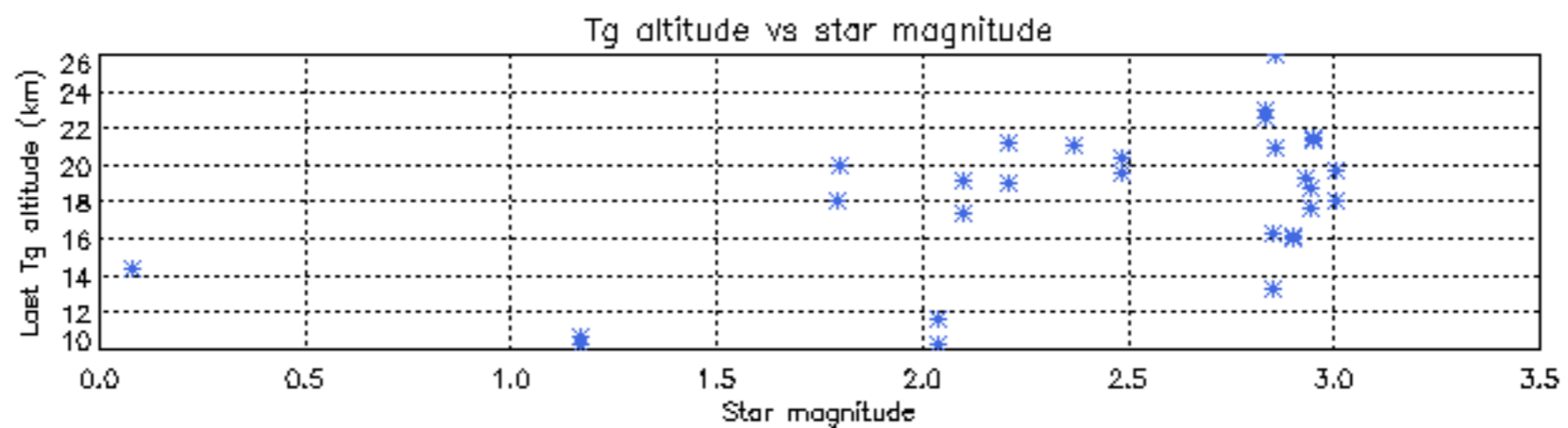
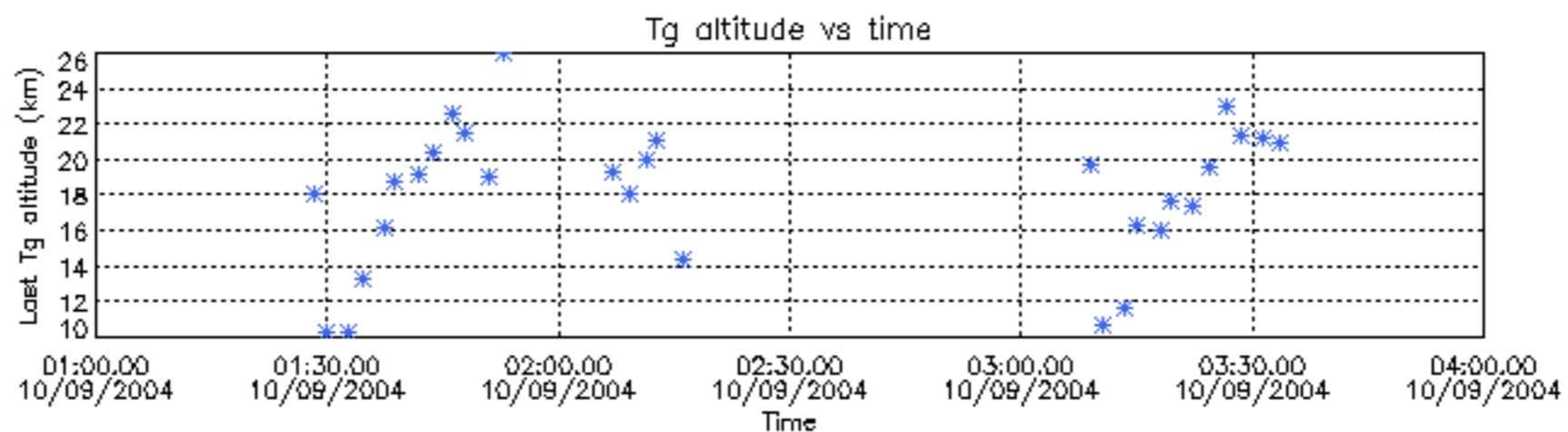
Percentage of saturation errors per profile



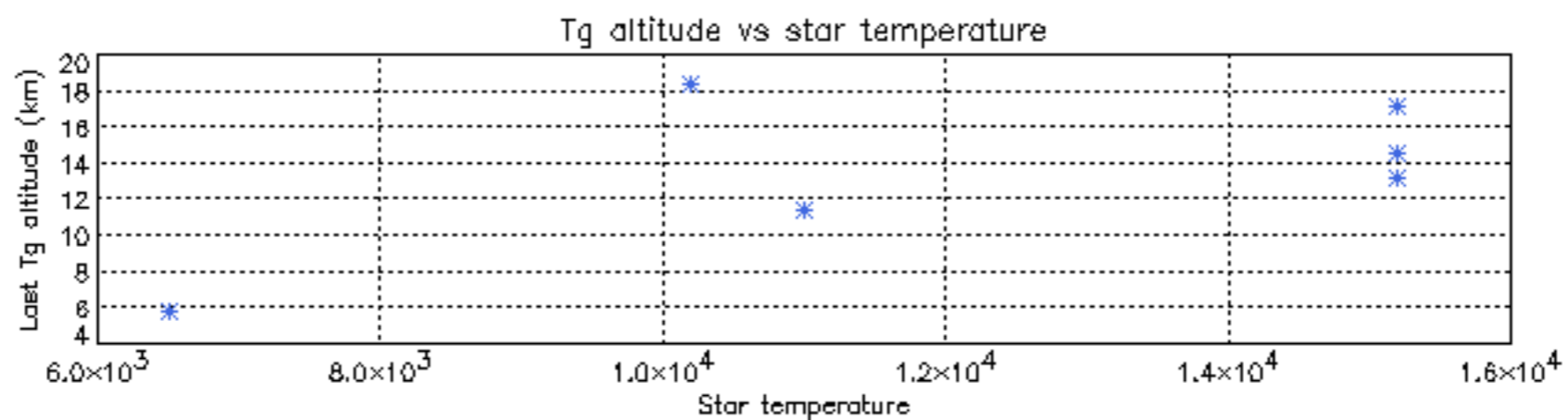
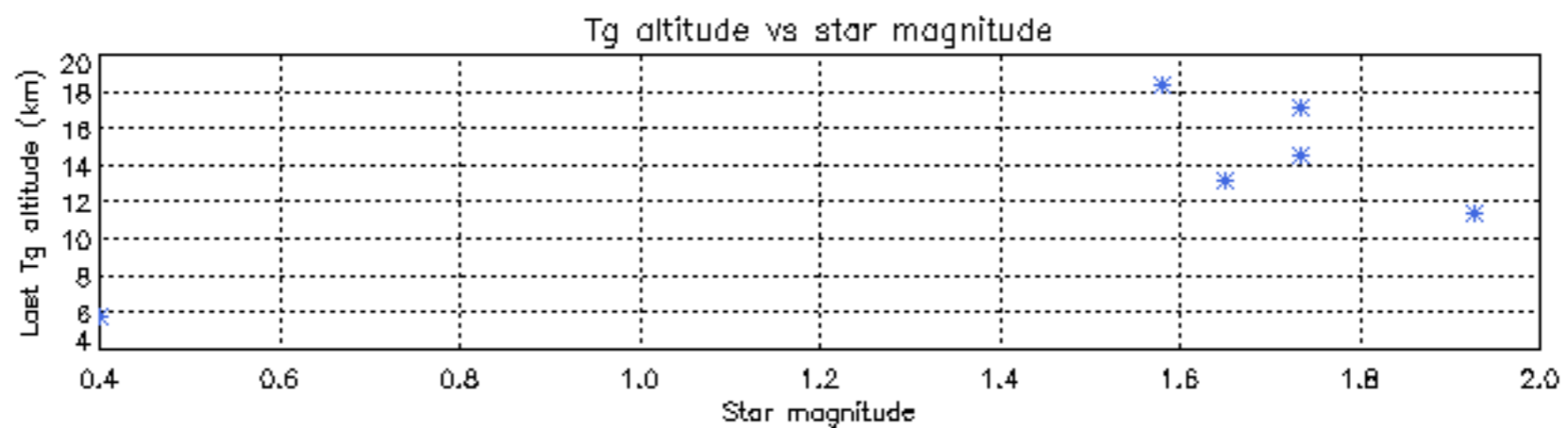
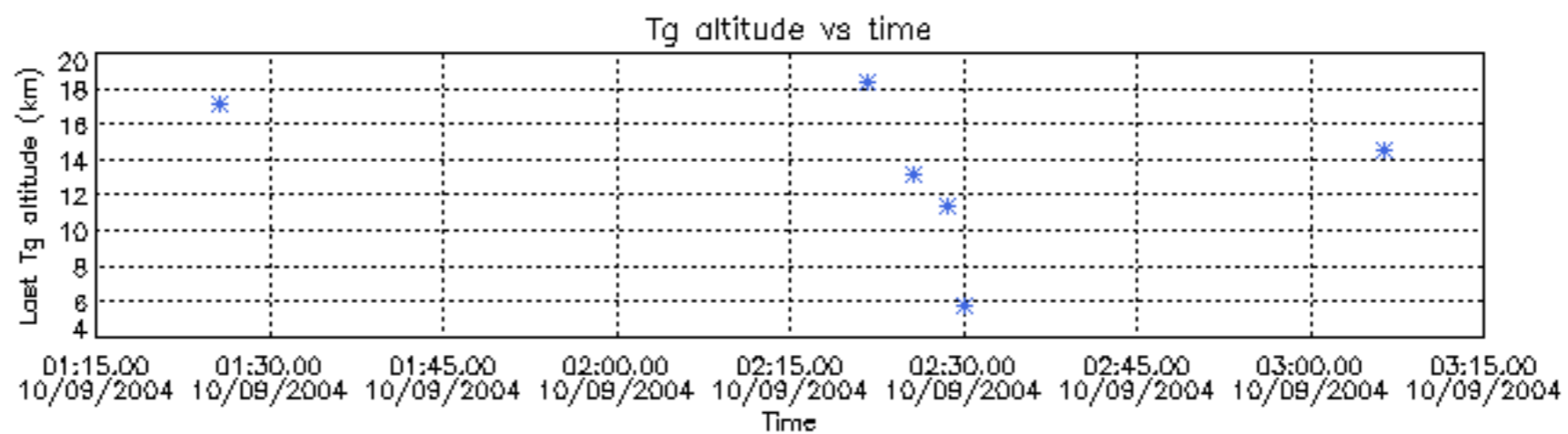
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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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
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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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21; 3266.2; 01-SEP-2004 01:43:42; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;13097
22; 3430.1; 01-SEP-2004 01:46:26; Bright; 41.5; 49; 1Alp UMi ; 1.99; 6300;occ; 83; 0;13097
23; 3596.7; 01-SEP-2004 01:49:13; Bright; 95.5; 73; 57Gam1And ; 2.26; 13100;occ; 191; 0;13097
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25; 3899.3; 01-SEP-2004 01:54:15; Bright; 39.5; 82; 48Bet UMa ; 2.37; 10600;occ; 79; 0;13097
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27; 4514.0; 01-SEP-2004 02:04:30; Bright; 40.5; 17; 78Bet Gem ; 1.16; 4500;occ; 81; 0;13097
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29; 4793.5; 01-SEP-2004 02:09:10; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;13097
30; 4914.8; 01-SEP-2004 02:11:11; Dark ; 54.0; 8; 10Alp CMi ; 0.40; 6500;occ; 108; 0;13097
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5; -1522.8; 01-SEP-2004 03:45:05; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;13098
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7; -1242.1; 01-SEP-2004 03:49:46; Dark ; 52.0; 44; 24Gam Gem ; 1.93; 11000;occ; 104; 0;13098
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21; 1805.4; 01-SEP-2004 04:40:33; Bright; 40.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 81; 0;13099
22; 1893.3; 01-SEP-2004 04:42:01; Bright; 42.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 84; 0;13099
23; 2073.5; 01-SEP-2004 04:45:02; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;13099
24; 2244.6; 01-SEP-2004 04:47:53; Bright; 49.5; 90; 54Alp Peg ; 2.49; 11000;occ; 99; 0;13099
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26; 2599.7; 01-SEP-2004 06:34:24; Bright; 39.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 78; 0;13100
27; 2676.8; 01-SEP-2004 06:35:41; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;13100
28; 2973.2; 01-SEP-2004 06:40:37; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;13100
29; 3136.7; 01-SEP-2004 06:43:21; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;13100
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31; 3430.0; 01-SEP-2004 06:48:14; Bright; 42.0; 49; 1Alp UMi ; 1.99; 6300;occ; 84; 0;13100
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14; 530.4; 01-SEP-2004 07:40:30; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;13101
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29;	-216.9;	08-SEP-2004	17:11:31;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	13206
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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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28;	-365.5;	08-SEP-2004	18:49:39;	Dark	;	44.5;	65;	Lam	Vel	;	2.20;	4400;	occ;	89;	0;	13207
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9;	-3961.2;	08-SEP-2004	19:30:19;	Bright;	;	38.0;	61;	8Eps	Peg	;	2.10;	3900;	occ;	76;	0;	13208
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