

GOMOS Daily Report 01-OCT-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	03OCT2004 05:01:41
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (01OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (02OCT2004 00:00:00)

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

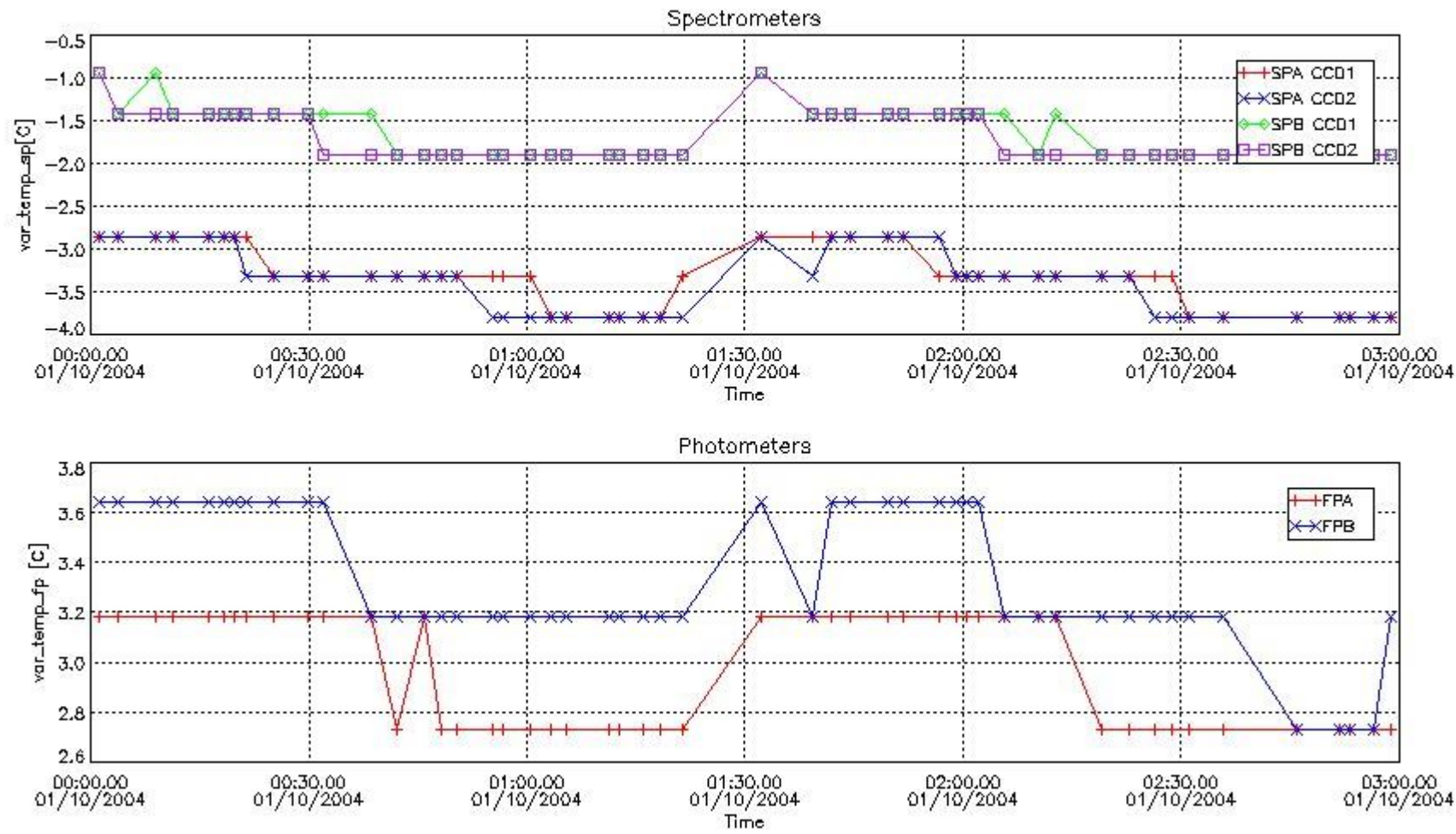
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20041001_000112_000000442030_00445_13525_0001.N1	01-OCT-2004 00:01:12	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	13525	No
GOM_TRA_1PNPDE20041001_000347_000000462030_00445_13525_0002.N1	01-OCT-2004 00:03:47	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	13525	No
GOM_TRA_1PNPDE20041001_000859_000000592030_00446_13526_0003.N1	01-OCT-2004 00:08:59	Dark	59.000	2	Alp Car	-0.73600	7000.0	118	13526	No
GOM_TRA_1PNPDE20041001_001117_000000652030_00446_13526_0004.N1	01-OCT-2004 00:11:17	Dark	65.000	108	Alp Col	2.6520	15200.	130	13526	No
GOM_TRA_1PNPDE20041001_001611_000000392030_00446_13526_0005.N1	01-OCT-2004 00:16:11	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	13526	No
GOM_TRA_1PNPDE20041001_001820_000000412030_00446_13526_0006.N1	01-OCT-2004 00:18:20	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	13526	No
GOM_TRA_1PNPDE20041001_001947_000000462030_00446_13526_0007.N1	01-OCT-2004 00:19:47	Dark	45.500	9	Alp Eri	0.45300	24000.	91	13526	No
GOM_TRA_1PNPDE20041001_002124_000000512030_00446_13526_0008.N1	01-OCT-2004 00:21:24	Dark	51.000	157	The1Eri	2.9060	9300.0	102	13526	No
GOM_TRA_1PNPDE20041001_002509_000000522030_00446_13526_0009.N1	01-OCT-2004 00:25:09	Twilight	52.000	63	Bet Gru	2.1500	2800.0	104	13526	No
GOM_TRA_1PNPDE20041001_002947_000000462030_00446_13526_0010.N1	01-OCT-2004 00:29:47	Bright	46.000	18	24Alp PsA	1.1660	9700.0	92	13526	No
GOM_TRA_1PNPDE20041001_003203_000000522030_00446_13526_0011.N1	01-OCT-2004 00:32:03	Bright	51.500	52	16Bet Cet	2.0370	4500.0	103	13526	No
GOM_TRA_1PNPDE20041001_003831_000000402030_00446_13526_0012.N1	01-OCT-2004 00:38:31	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	13526	No
GOM_TRA_1PNPDE20041001_004213_000000392030_00446_13526_0013.N1	01-OCT-2004 00:42:13	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	13526	No
GOM_TRA_1PNPDE20041001_004551_000000402030_00446_13526_0014.N1	01-OCT-2004 00:45:51	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	13526	No
GOM_TRA_1PNPDE20041001_004812_000000642030_00446_13526_0015.N1	01-OCT-2004 00:48:12	Bright	63.500	105	6Bet Ari	2.6450	8900.0	127	13526	No
GOM_TRA_1PNPDE20041001_005023_000000482030_00446_13526_0016.N1	01-OCT-2004 00:50:23	Bright	47.500	53	43Bet And	2.0480	3300.0	95	13526	No
GOM_TRA_1PNPDE20041001_005516_000000402030_00446_13526_0017.N1	01-OCT-2004 00:55:16	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	13526	No
GOM_TRA_1PNPDE20041001_005635_000000432030_00446_13526_0018.N1	01-OCT-2004 00:56:35	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	13526	No
GOM_TRA_1PNPDE20041001_010032_000000532030_00446_13526_0019.N1	01-OCT-2004 01:00:32	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	13526	No
GOM_TRA_1PNPDE20041001_010311_000000392030_00446_13526_0020.N1	01-OCT-2004 01:03:11	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	13526	No
GOM_TRA_1PNPDE20041001_010519_000000392030_00446_13526_0021.N1	01-OCT-2004 01:05:19	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	13526	No
GOM_TRA_1PNPDE20041001_011111_000000402030_00446_13526_0022.N1	01-OCT-2004 01:11:11	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	13526	No
GOM_TRA_1PNPDE20041001_011241_000000382030_00446_13526_0023.N1	01-OCT-2004 01:12:41	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	13526	No
GOM_TRA_1PNPDE20041001_011555_000000362030_00446_13526_0024.N1	01-OCT-2004 01:15:55	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	13526	No
GOM_TRA_1PNPDE20041001_011820_000000912030_00446_13526_0025.N1	01-OCT-2004 01:18:20	Bright	90.500	107	37The Aur	2.6490	11000.	181	13526	No
GOM_TRA_1PNPDE20041001_012120_000000582030_00446_13526_0026.N1	01-OCT-2004 01:21:20	Bright	58.000	24	66Alp Gem	1.5800	10200.	116	13526	No
GOM_TRA_1PNPDE20041001_013215_000000732030_00446_13526_0000.N1	01-OCT-2004 01:32:15	Twilight	72.500	8	10Alp CMi	0.40000	6500.0	145	13526	No
GOM_TRA_1PNPDE20041001_013915_000000542030_00446_13526_0001.N1	01-OCT-2004 01:39:15	Dark	54.000	132	15Rho Pup	2.8030	6900.0	108	13526	No
GOM_TRA_1PNPDE20041001_014149_000000472030_00446_13526_0002.N1	01-OCT-2004 01:41:49	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	13526	No
GOM_TRA_1PNPDE20041001_014423_000000442030_00446_13526_0003.N1	01-OCT-2004 01:44:23	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	13526	No
GOM_TRA_1PNPDE20041001_014935_000000572030_00447_13527_0004.N1	01-OCT-2004 01:49:35	Dark	56.500	2	Alp Car	-0.73600	7000.0	113	13527	No
GOM_TRA_1PNPDE20041001_015152_000000662030_00447_13527_0005.N1	01-OCT-2004 01:51:52	Dark	65.500	108	Alp Col	2.6520	15200.	131	13527	No
GOM_TRA_1PNPDE20041001_015646_000000382030_00447_13527_0006.N1	01-OCT-2004 01:56:46	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	13527	No
GOM_TRA_1PNPDE20041001_015856_000000402030_00447_13527_0007.N1	01-OCT-2004 01:58:56	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	13527	No
GOM_TRA_1PNPDE20041001_020023_000000462030_00447_13527_0008.N1	01-OCT-2004 02:00:23	Dark	46.000	9	Alp Eri	0.45300	24000.	92	13527	No
GOM_TRA_1PNPDE20041001_020201_000000512030_00447_13527_0009.N1	01-OCT-2004 02:02:01	Dark	51.000	157	The1Eri	2.9060	9300.0	102	13527	No
GOM_TRA_1PNPDE20041001_020545_000000492030_00447_13527_0010.N1	01-OCT-2004 02:05:45	Twilight	48.500	63	Bet Gru	2.1500	2800.0	97	13527	No
GOM_TRA_1PNPDE20041001_021024_000000472030_00447_13527_0011.N1	01-OCT-2004 02:10:24	Bright	46.500	18	24Alp PsA	1.1660	9700.0	93	13527	No
GOM_TRA_1PNPDE20041001_021240_000000552030_00447_13527_0012.N1	01-OCT-2004 02:12:40	Bright	54.500	52	16Bet Cet	2.0370	4500.0	109	13527	No
GOM_TRA_1PNPDE20041001_021908_000000382030_00447_13527_0013.N1	01-OCT-2004 02:19:08	Bright	38.000	162	34Alp Aqr	2.9440	5350.0	76	13527	No
GOM_TRA_1PNPDE20041001_022250_000000392030_00447_13527_0014.N1	01-OCT-2004 02:22:50	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	13527	No
GOM_TRA_1PNPDE20041001_022627_000000392030_00447_13527_0015.N1	01-OCT-2004 02:26:27	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	13527	No
GOM_TRA_1PNPDE20041001_022846_000000662030_00447_13527_0016.N1	01-OCT-2004 02:28:46	Bright	65.500	105	6Bet Ari	2.6450	8900.0	131	13527	No
GOM_TRA_1PNPDE20041001_023059_000000502030_00447_13527_0017.N1	01-OCT-2004 02:30:59	Bright	50.000	53	43Bet And	2.0480	3300.0	100	13527	No
GOM_TRA_1PNPDE20041001_023551_000000392030_00447_13527_0018.N1	01-OCT-2004 02:35:51	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	13527	No
GOM_TRA_1PNPDE20041001_024555_000000402030_00447_13527_0000.N1	01-OCT-2004 02:45:55	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	13527	No
GOM_TRA_1PNPDE20041001_025145_000000412030_00447_13527_0001.N1	01-OCT-2004 02:51:45	Bright	41.000	36	50Alp UMa	1.8000	6300.0	82	13527	No
GOM_TRA_1PNPDE20041001_025317_000000522030_00447_13527_0002.N1	01-OCT-2004 02:53:17	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	13527	No
GOM_TRA_1PNPDE20041001_025631_000000362030_00447_13527_0003.N1	01-OCT-2004 02:56:31	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	13527	No

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



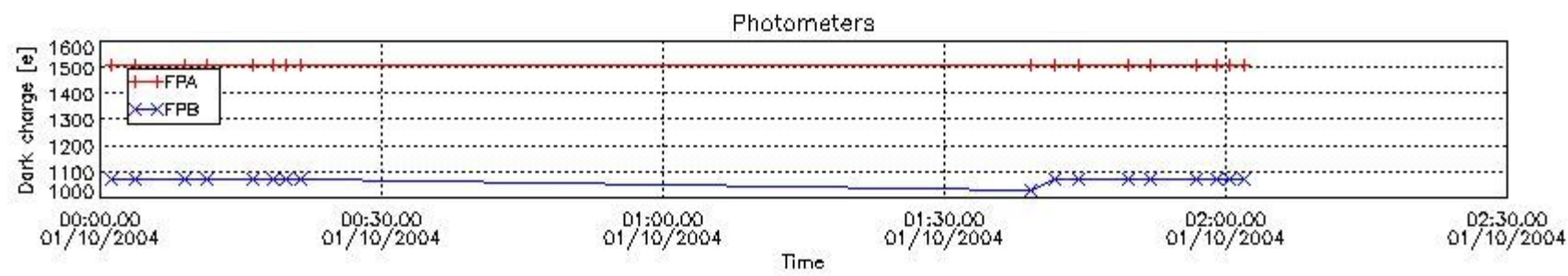
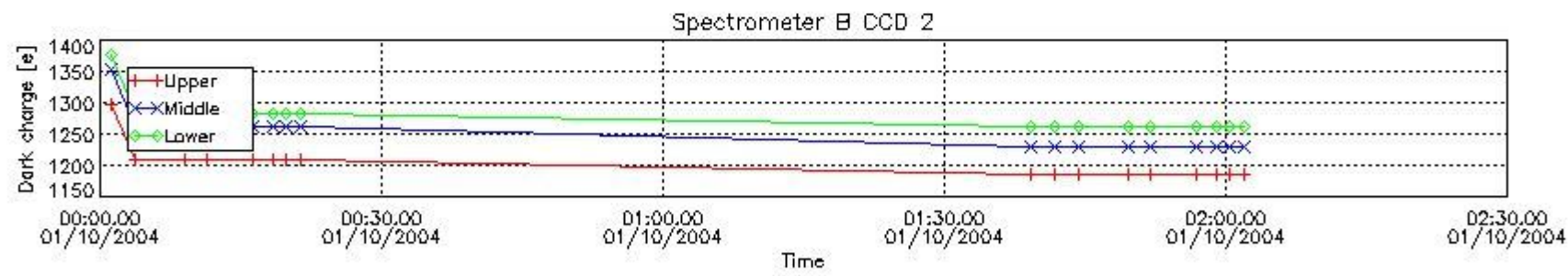
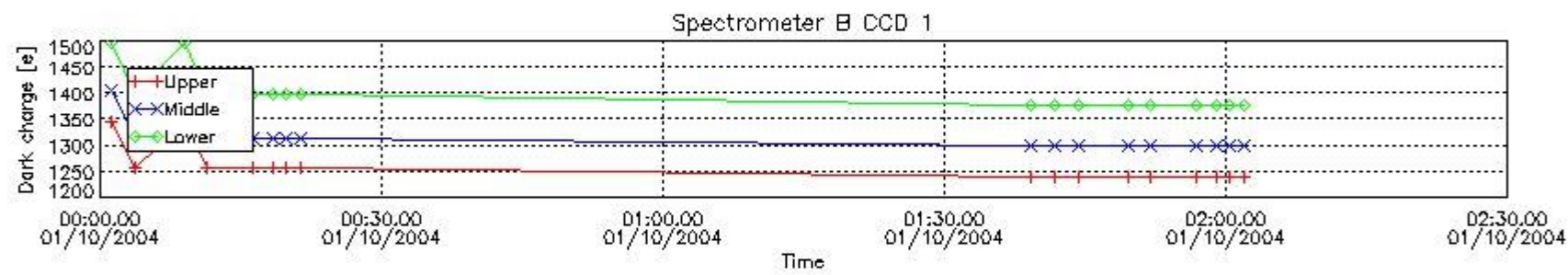
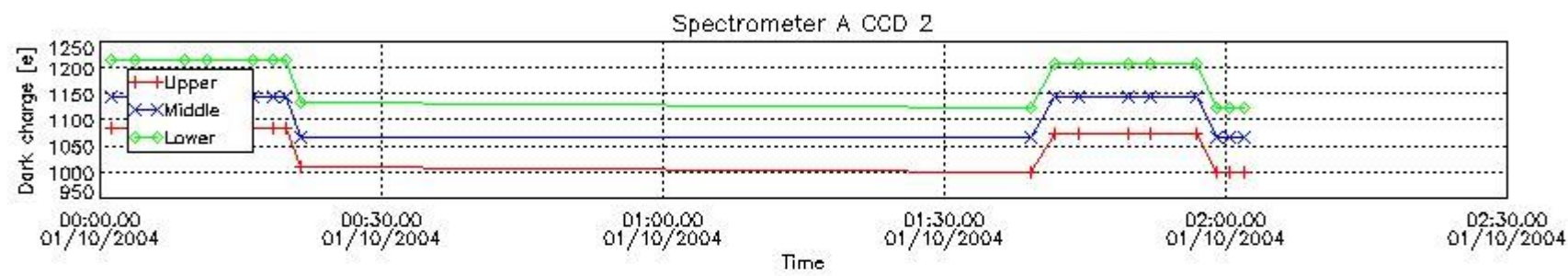
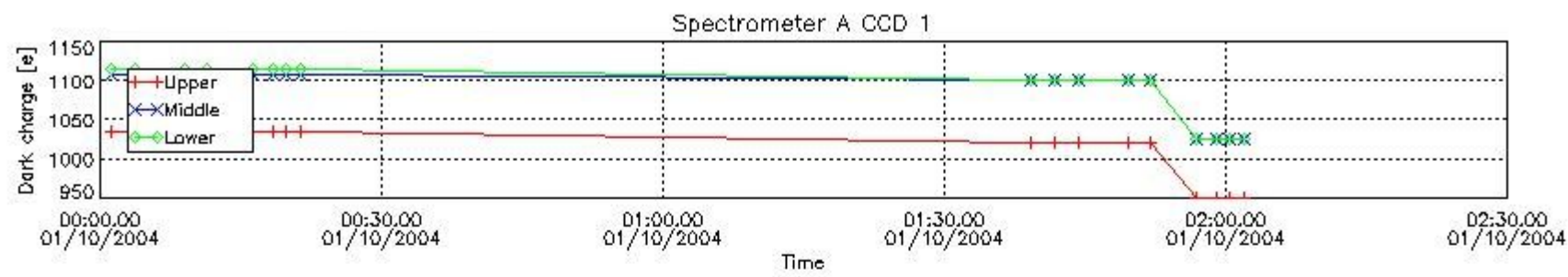
4. Overview of dark signal processing per product

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



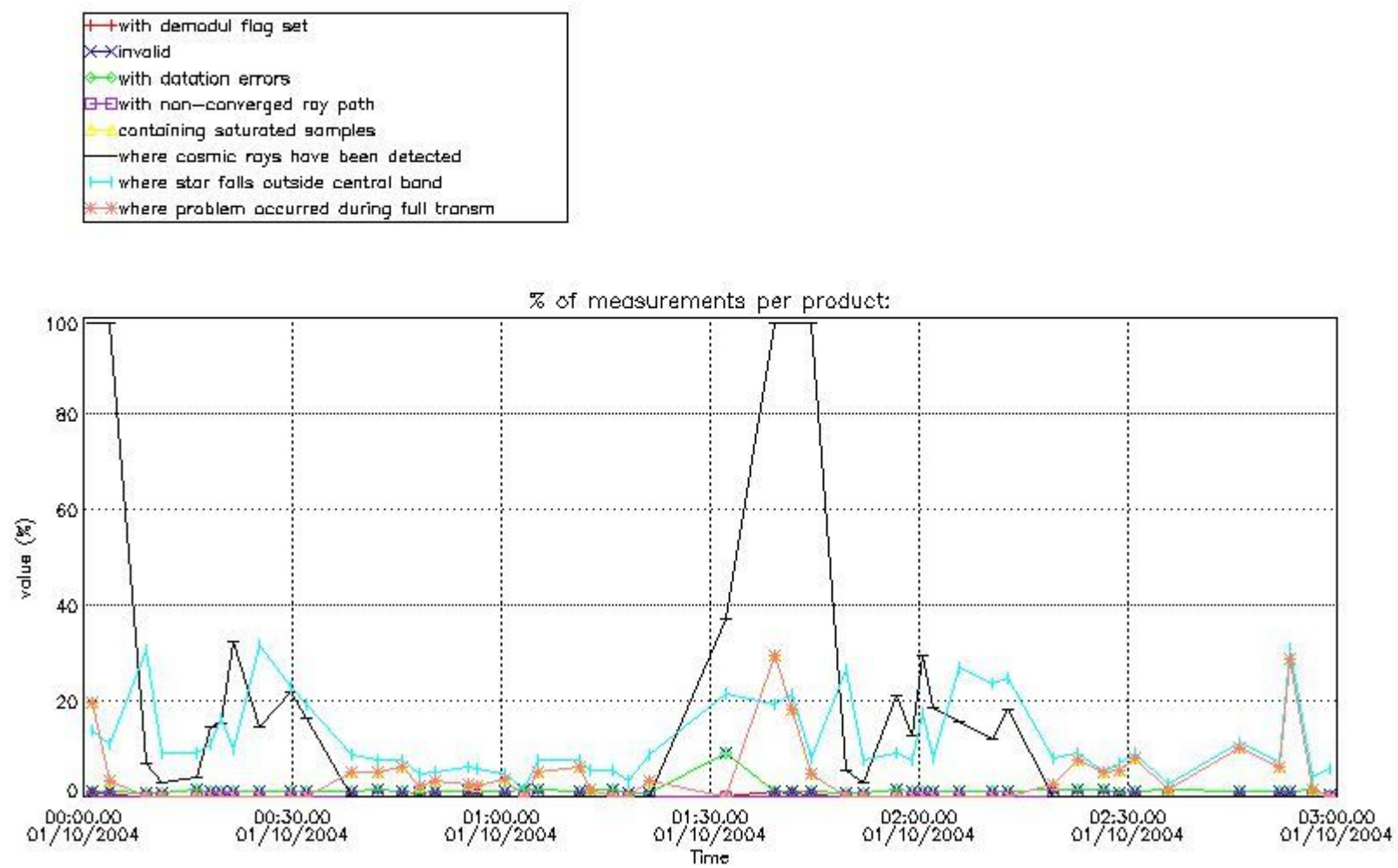
5. Demodulation flag and quality information monitoring

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.

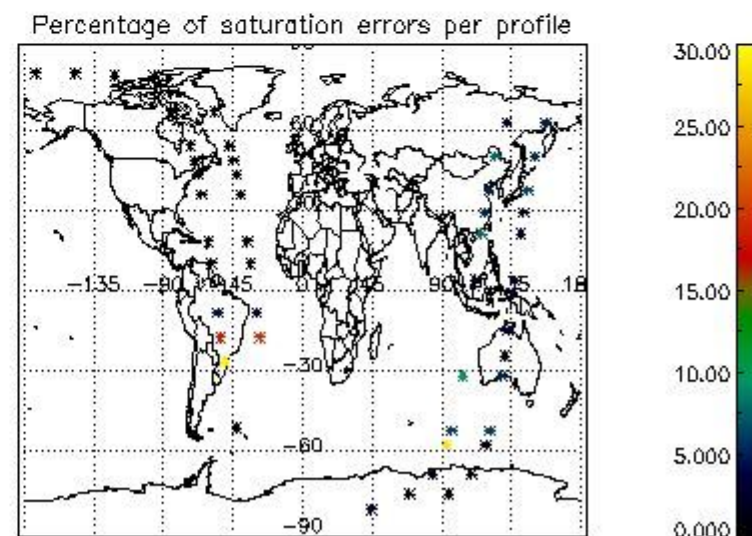
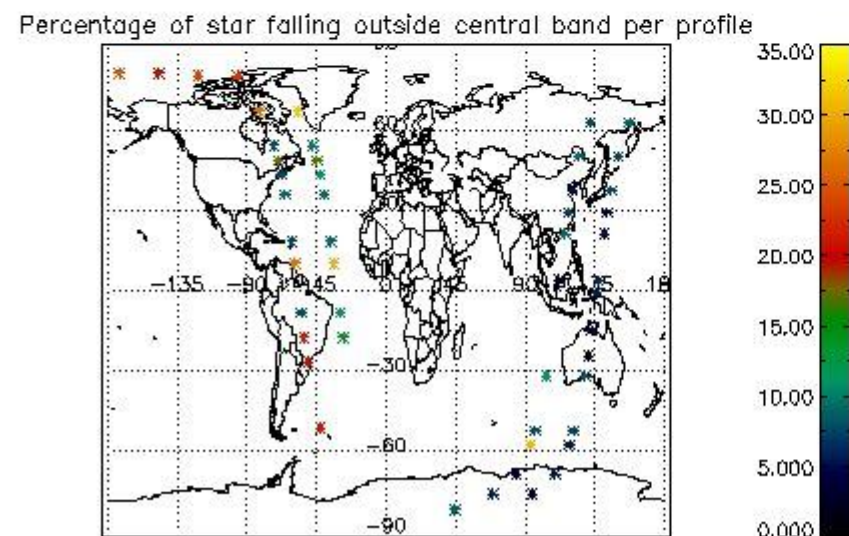
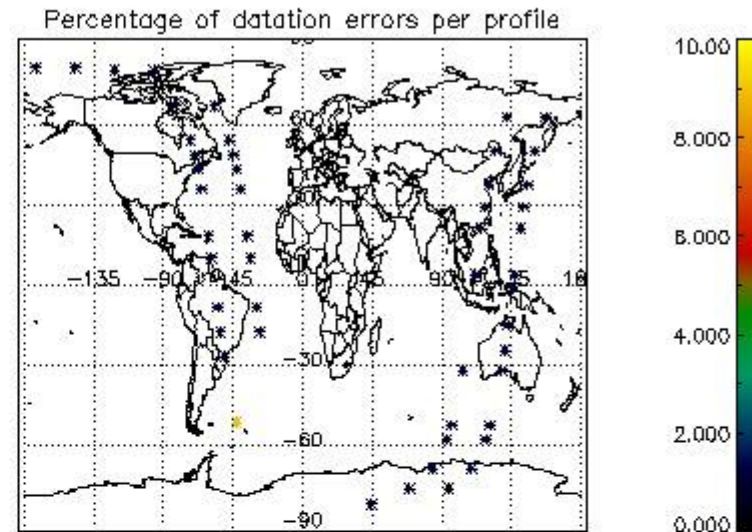
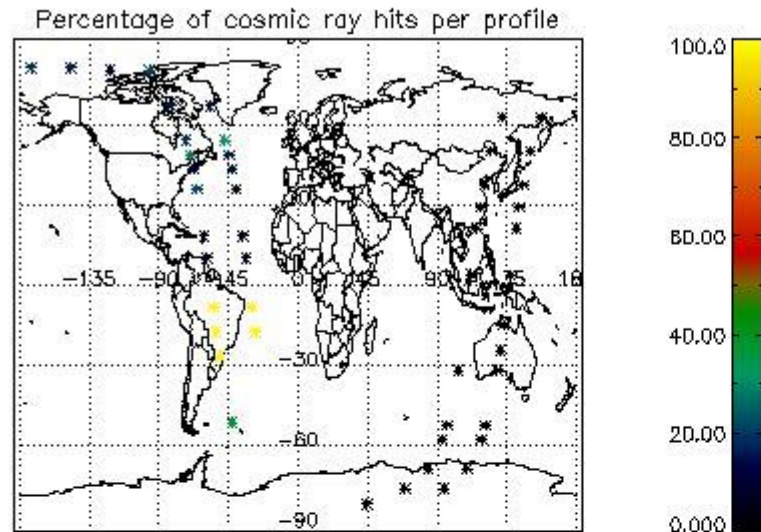
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.0000 %
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)



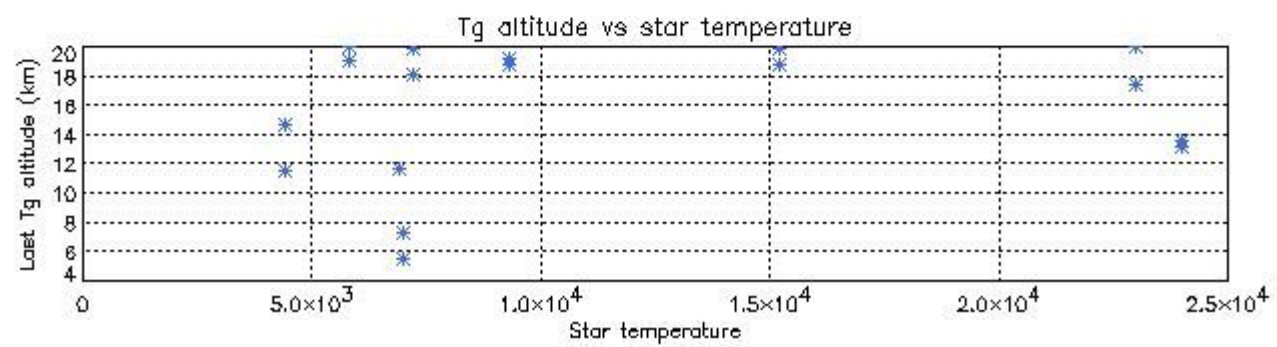
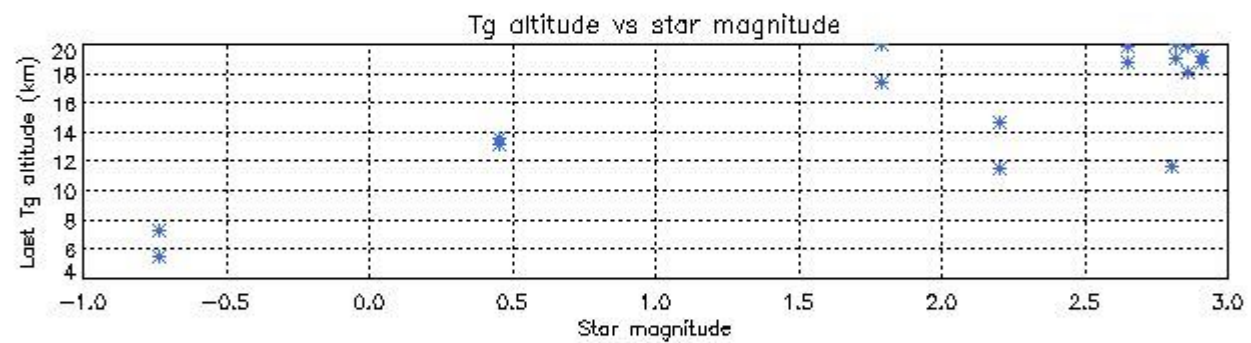
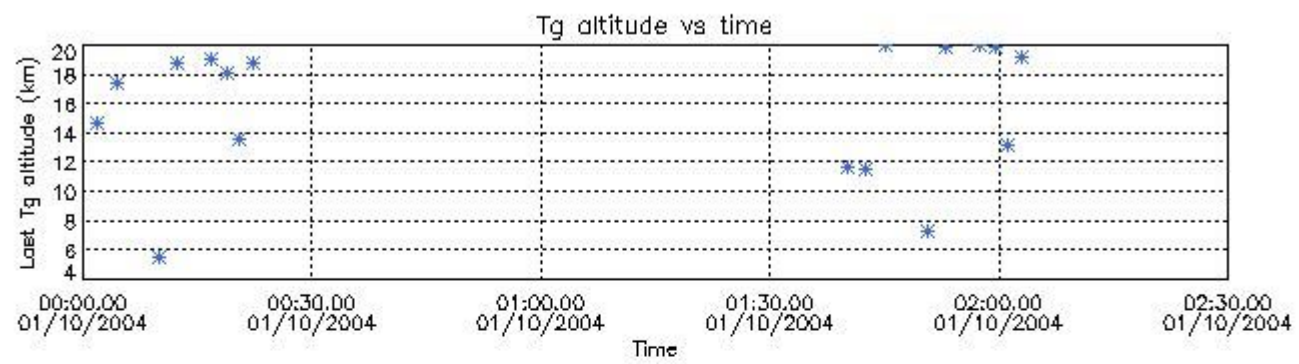
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.770	18.852	8.2004
St. deviation:	4.6497	4.9288	3.4843
Maximum:	19.995	25.579	11.759
Minimum:	5.4447	5.5202	4.7960
Number of data:	17.000	30.000	3.0000

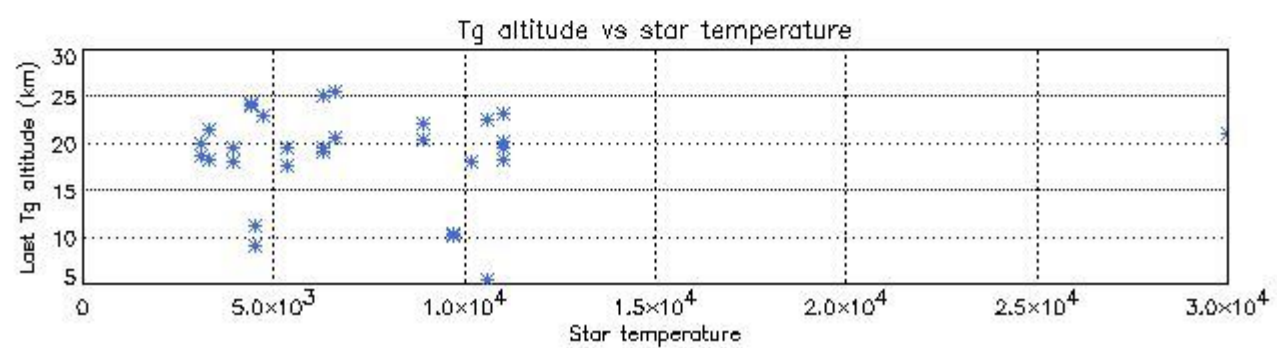
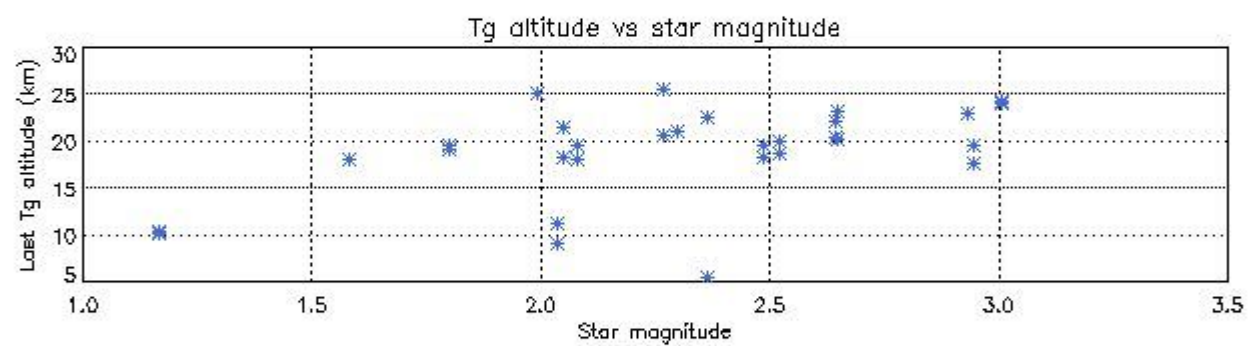
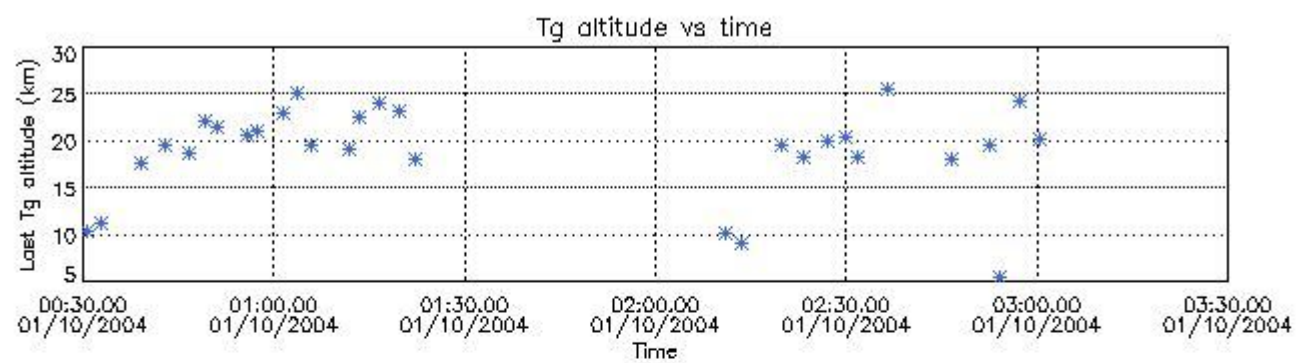
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



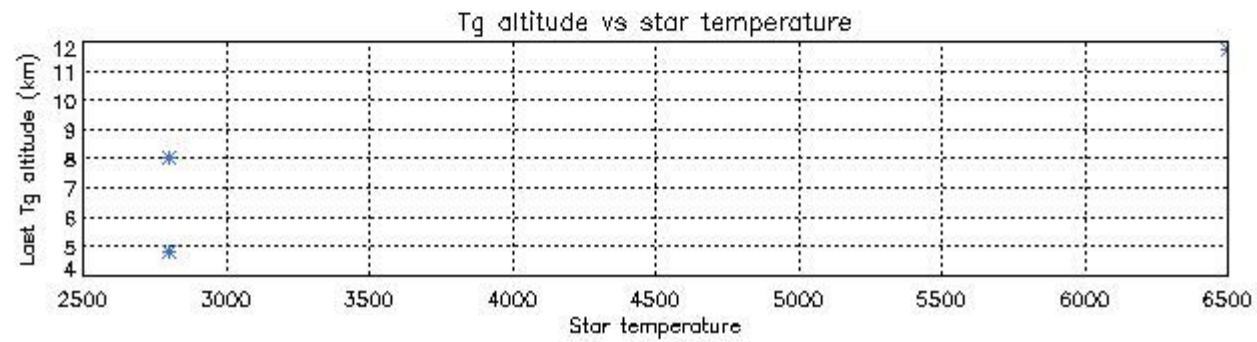
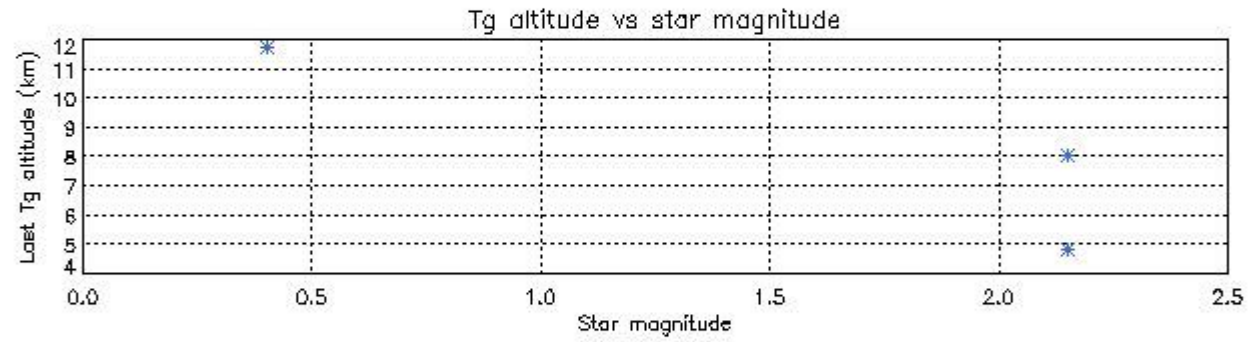
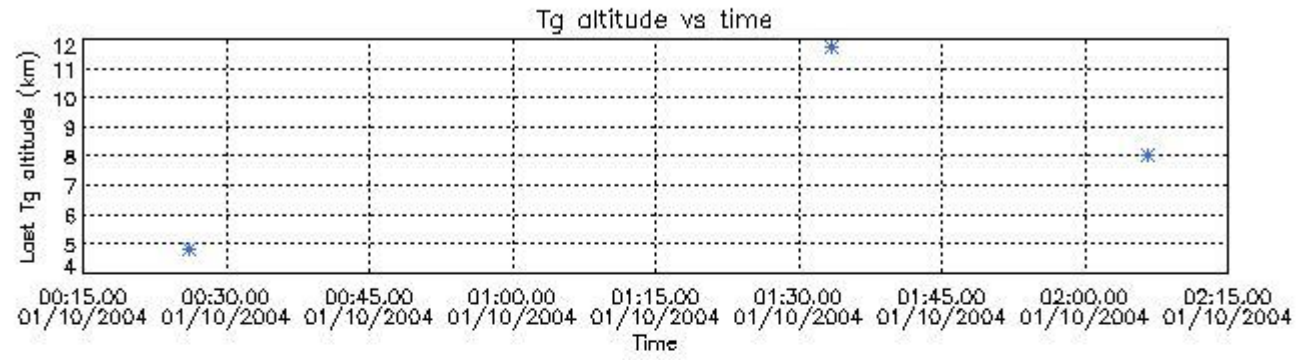
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

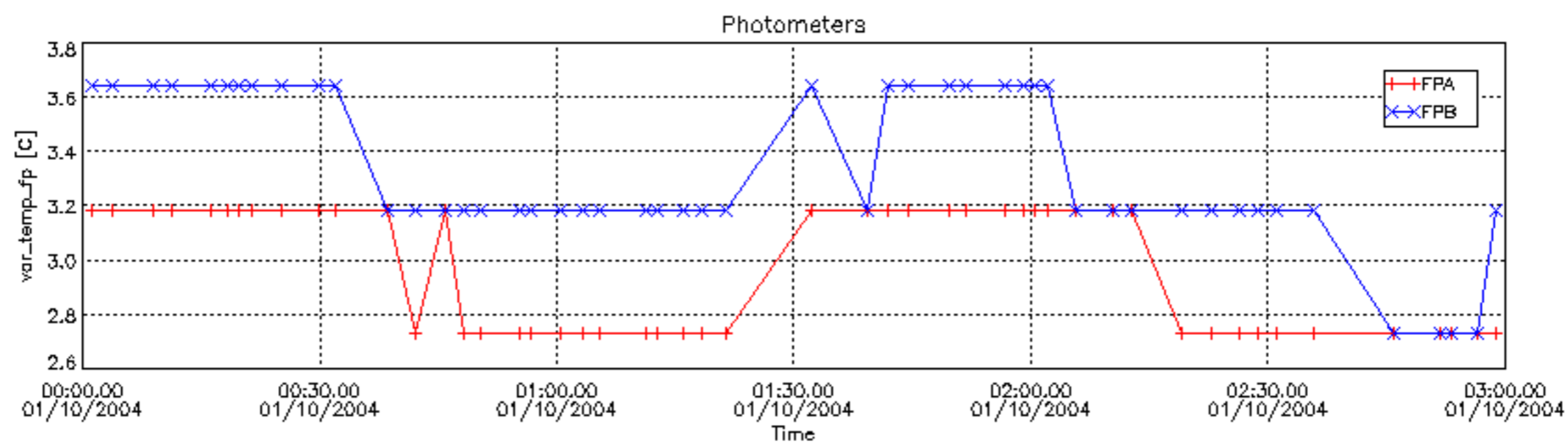
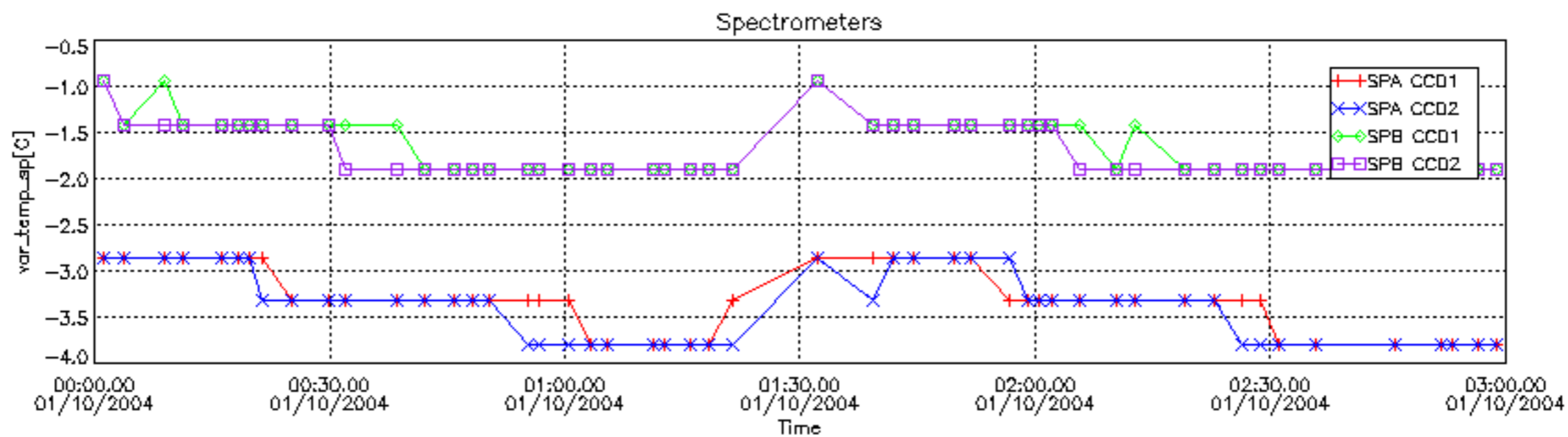
Tangent altitude at which the star is lost

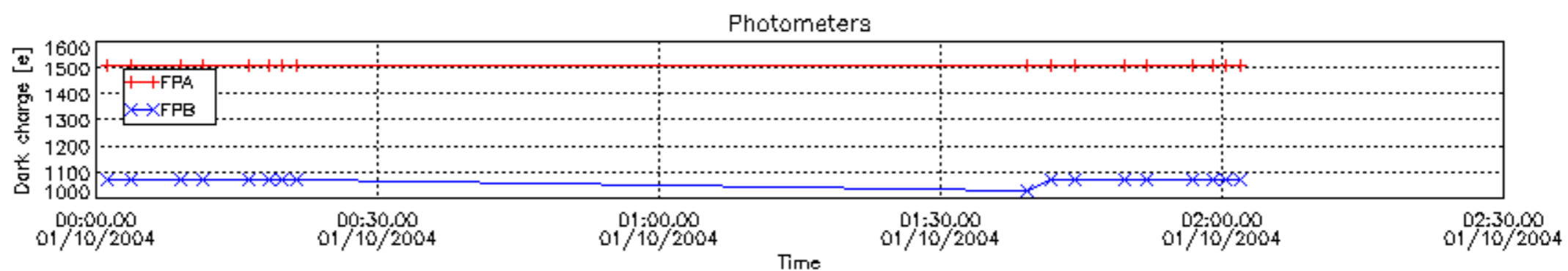
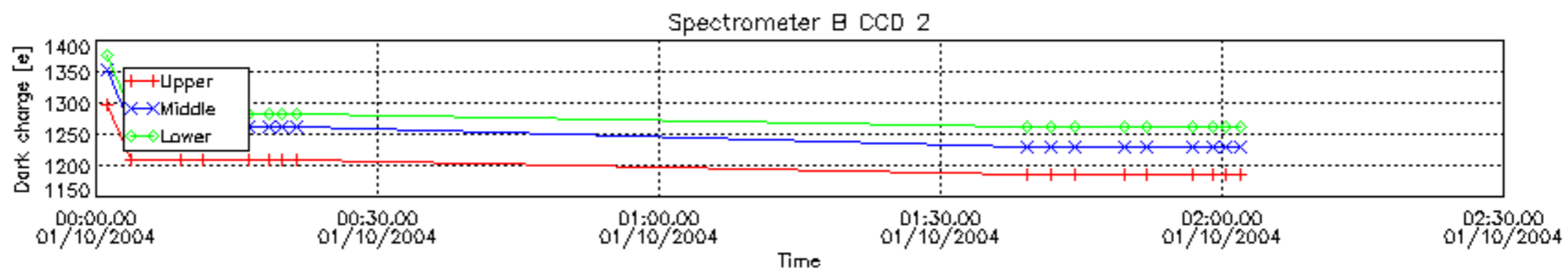
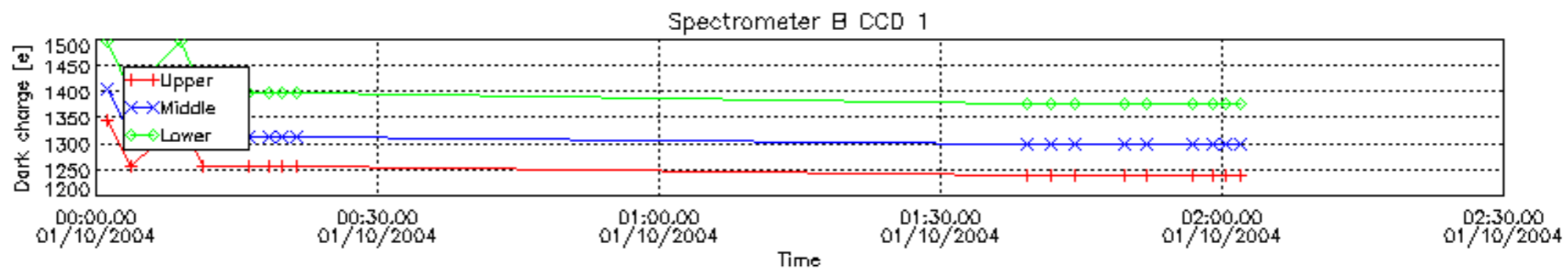
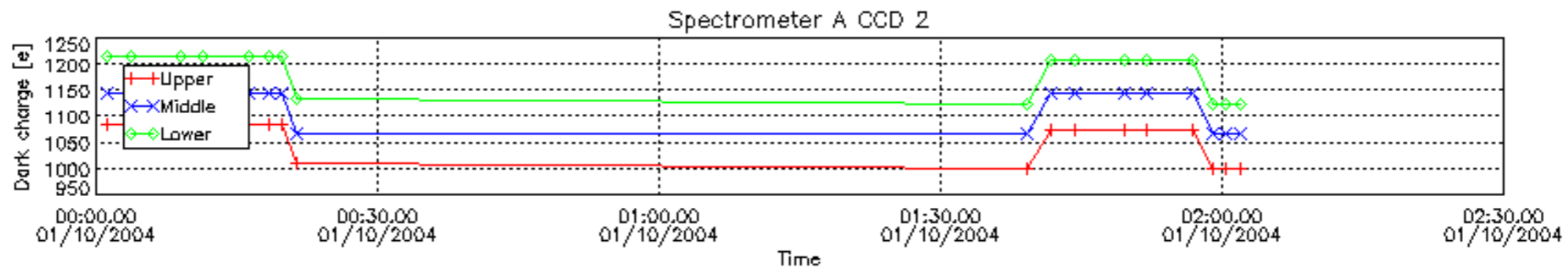
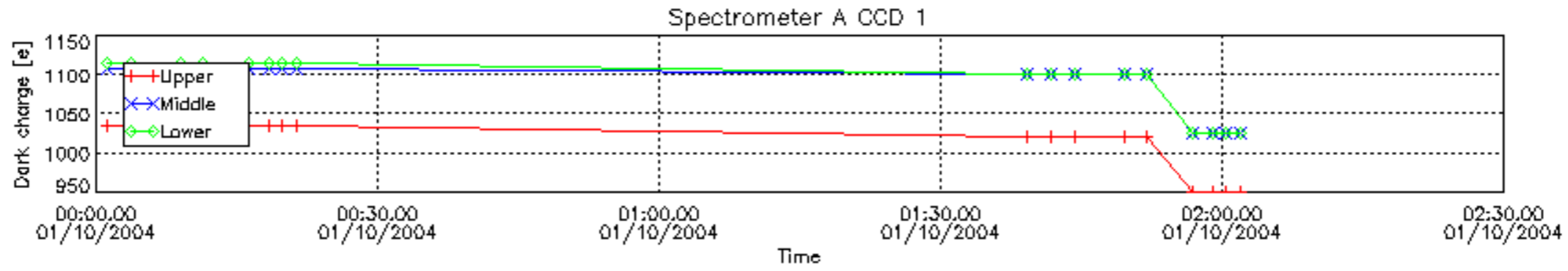


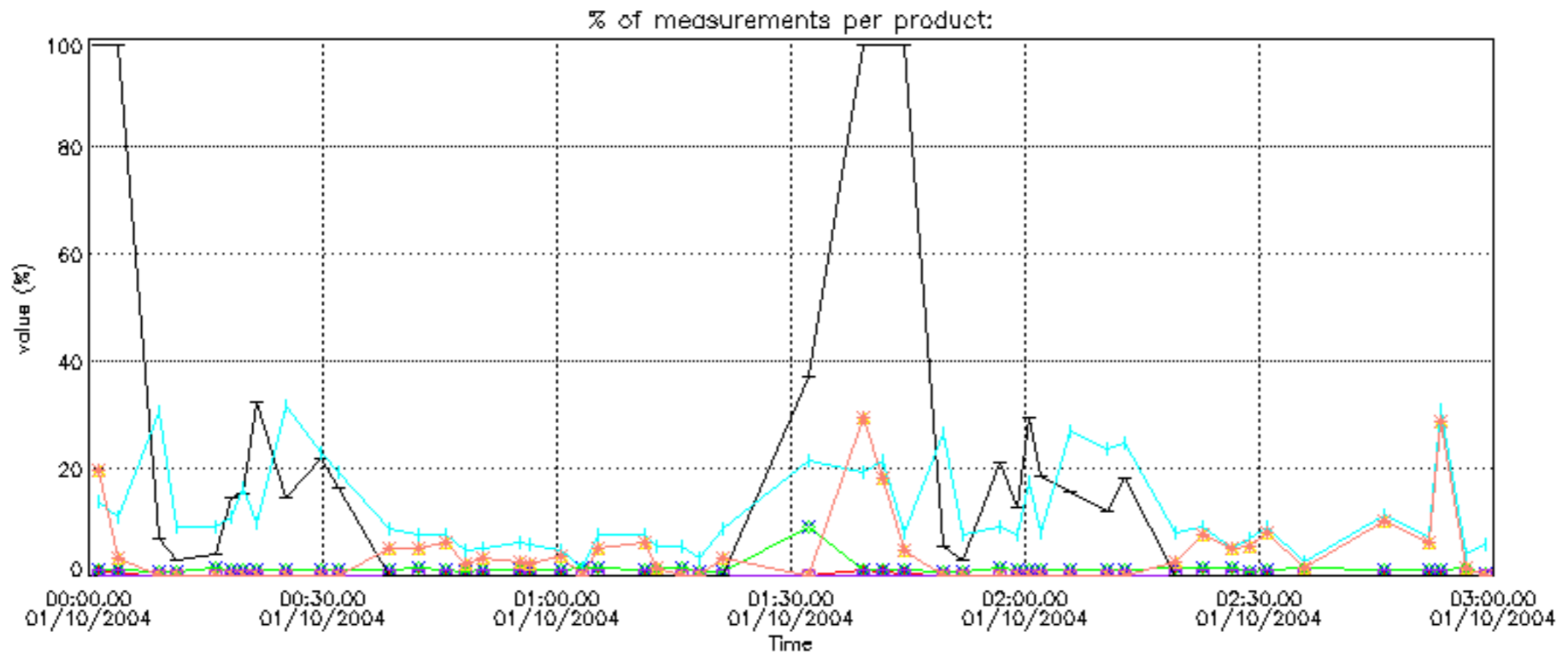
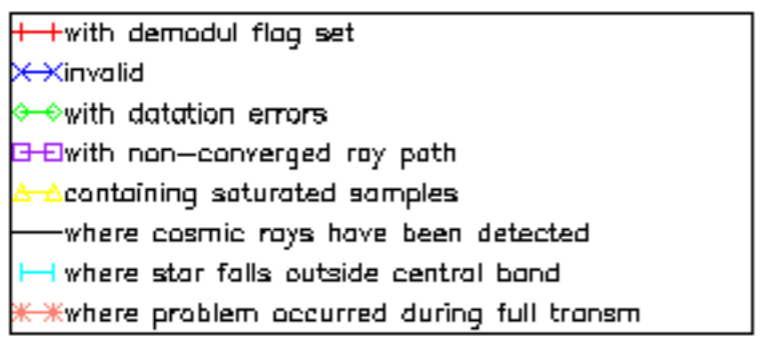
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

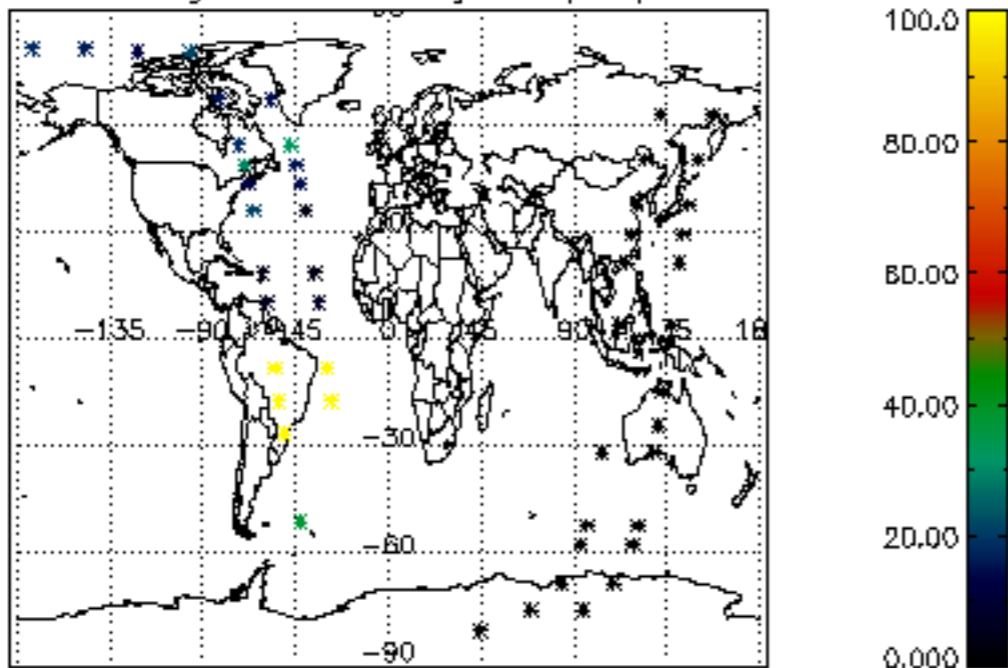
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.6	1446.7	1461.3	1447.9
St. deviation:	5.7607	6.6394	6.4126	7.1811
Maximum:	1561.0	1541.0	1505.0	1500.0
Minimum:	1430.0	1417.0	1430.0	1414.0
Number of data:	22200.	22200.	36950.	36950.



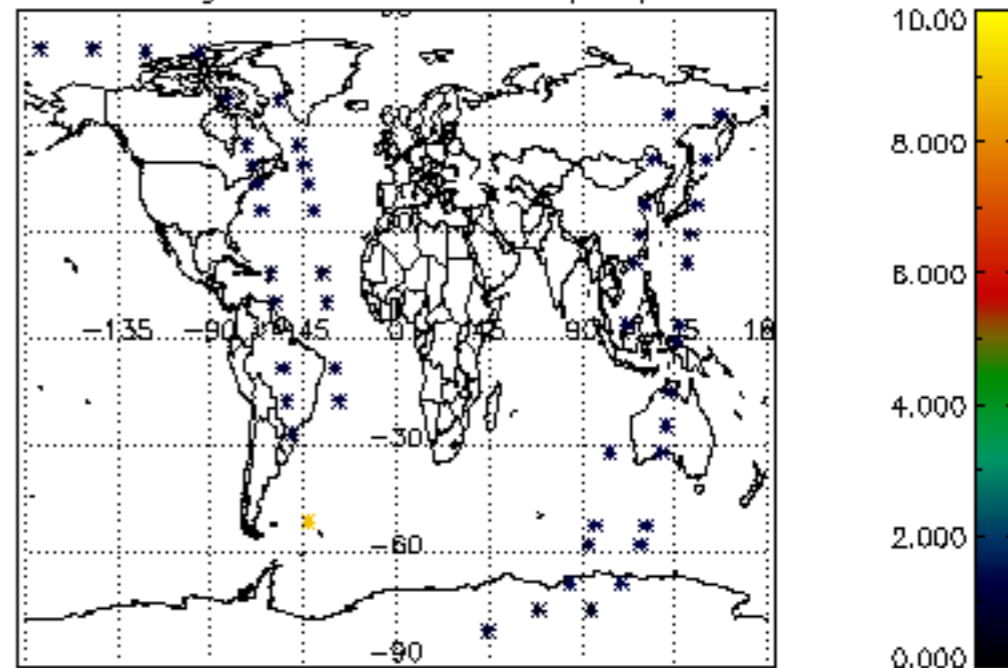




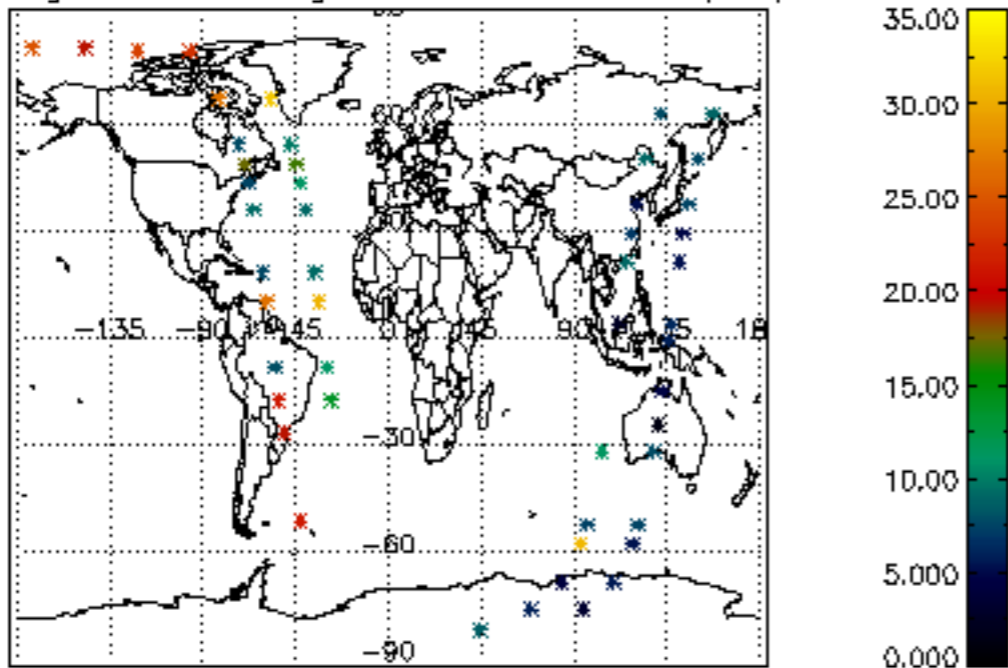
Percentage of cosmic ray hits per profile



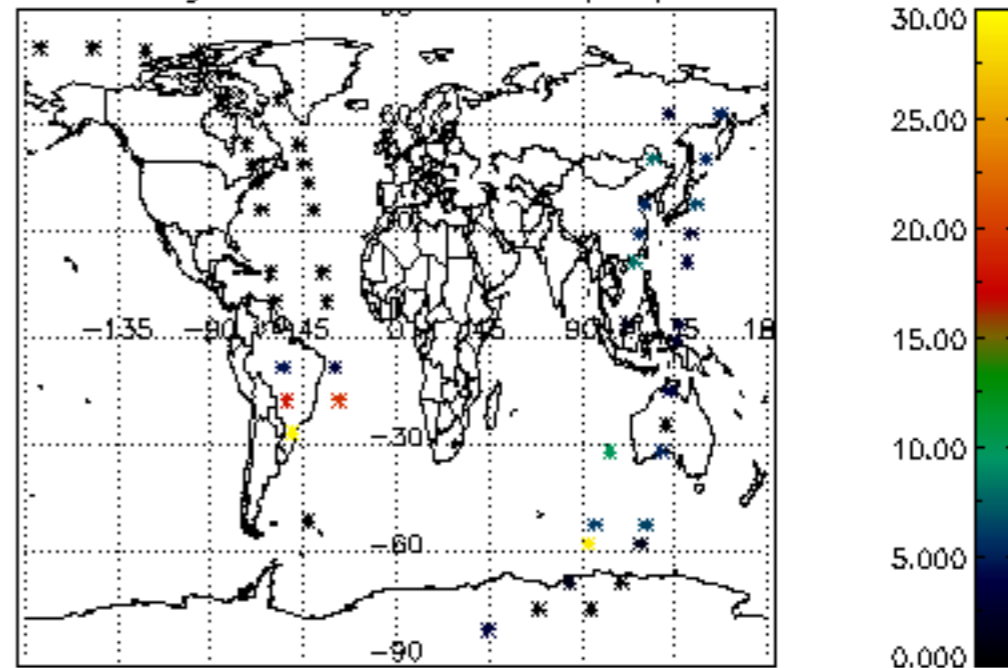
Percentage of datation errors per profile



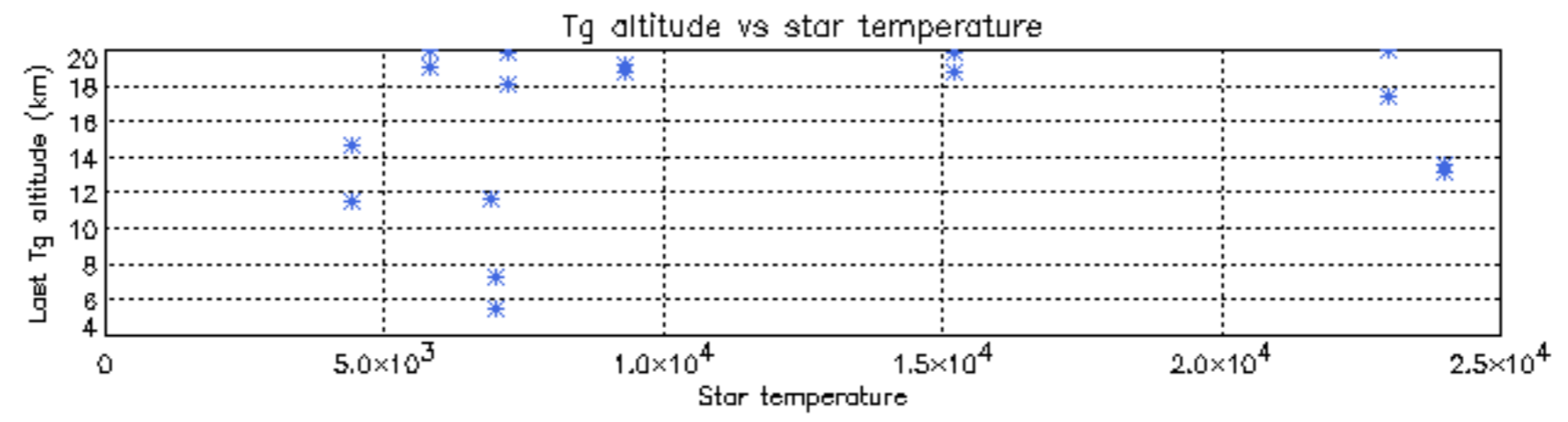
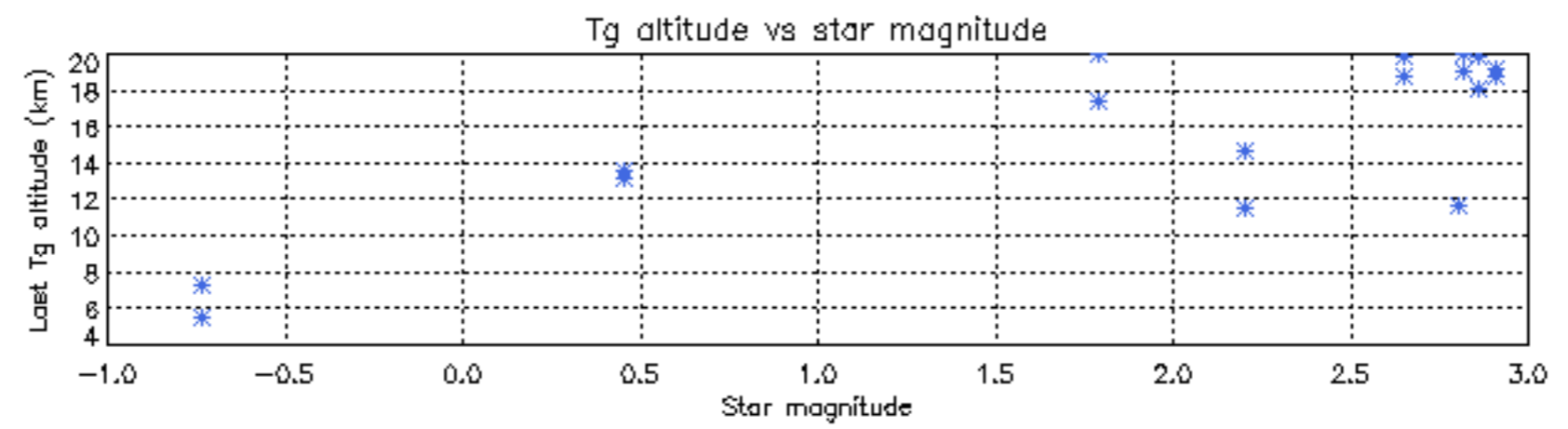
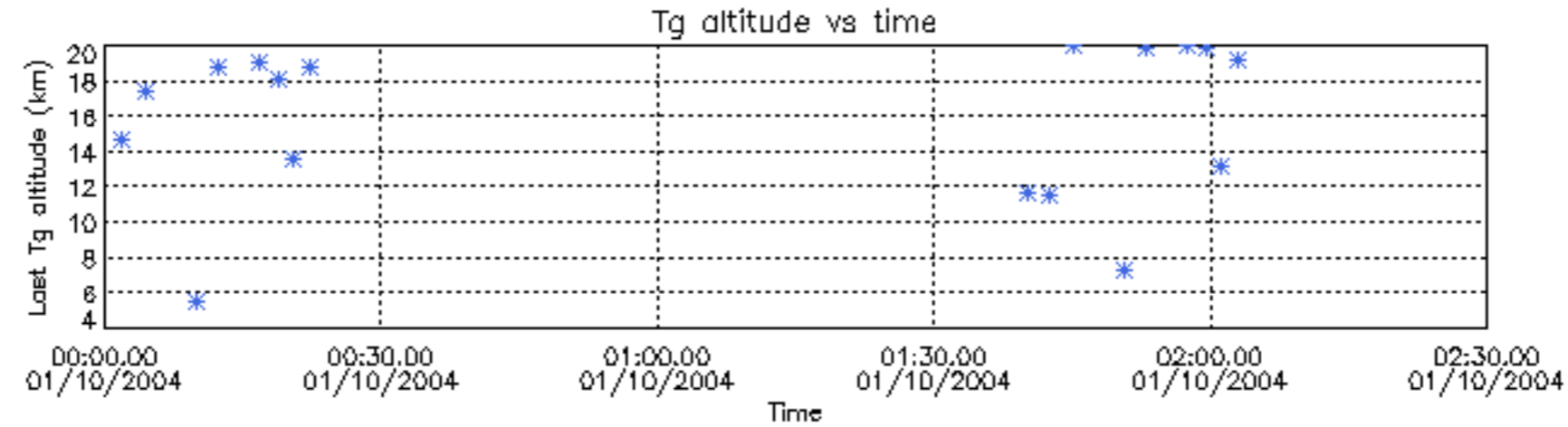
Percentage of star falling outside central band per profile



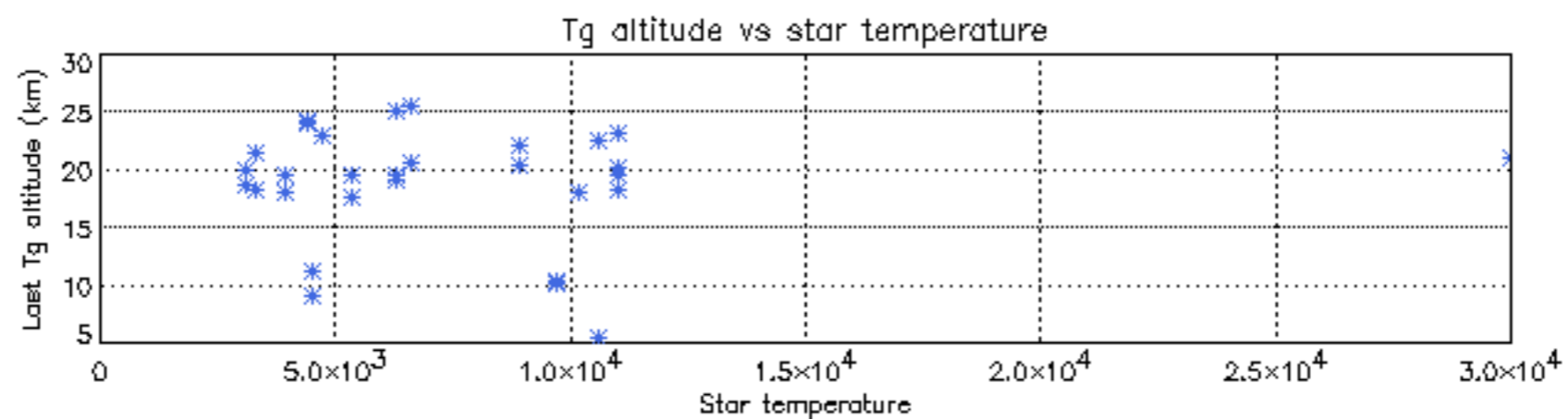
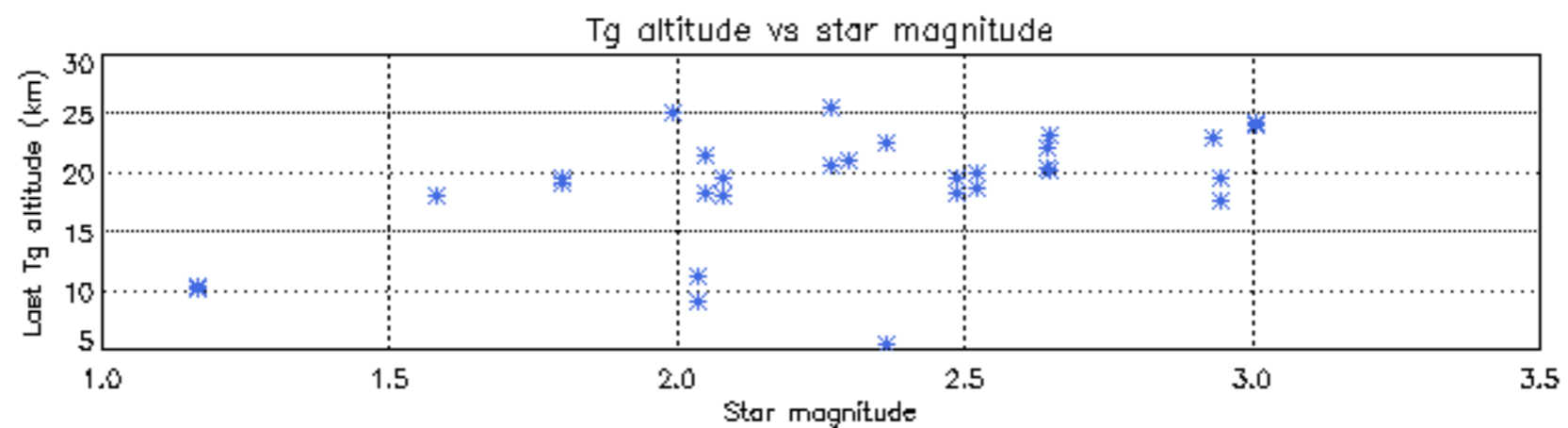
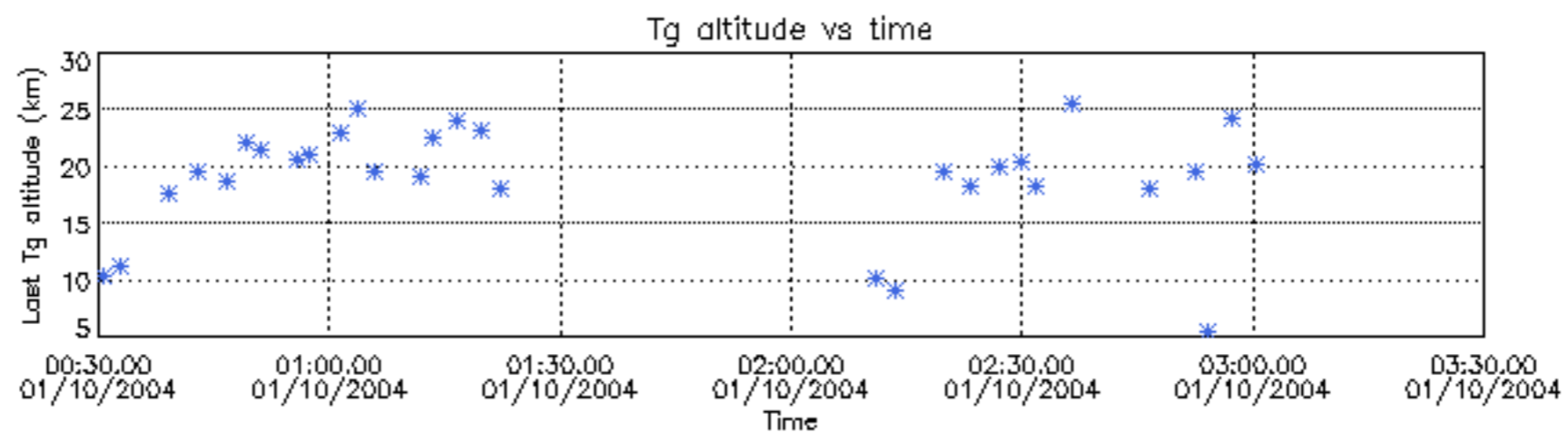
Percentage of saturation errors per profile



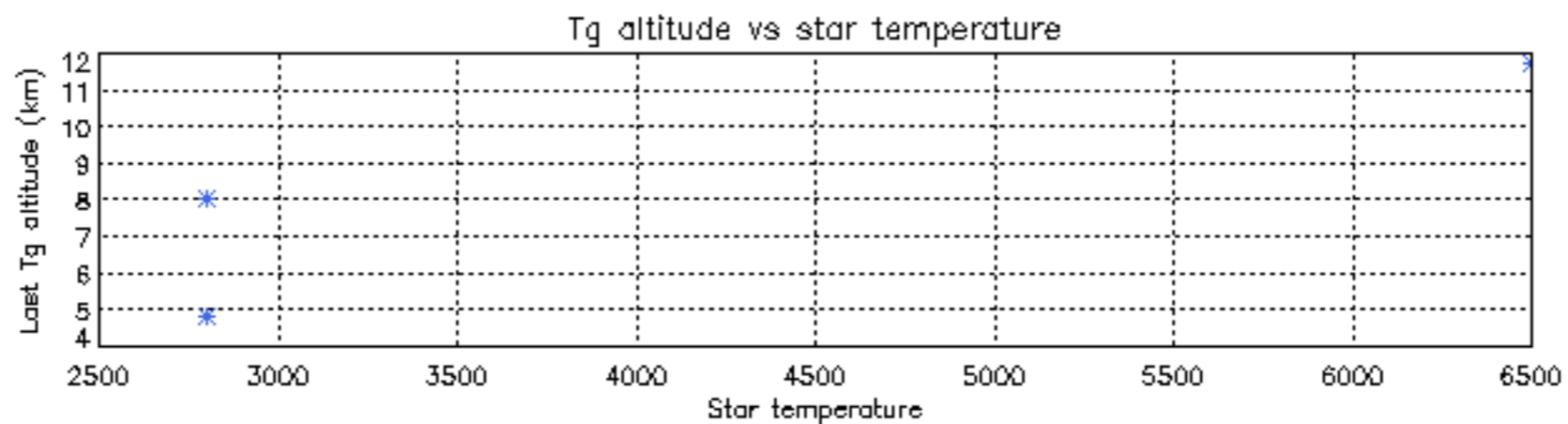
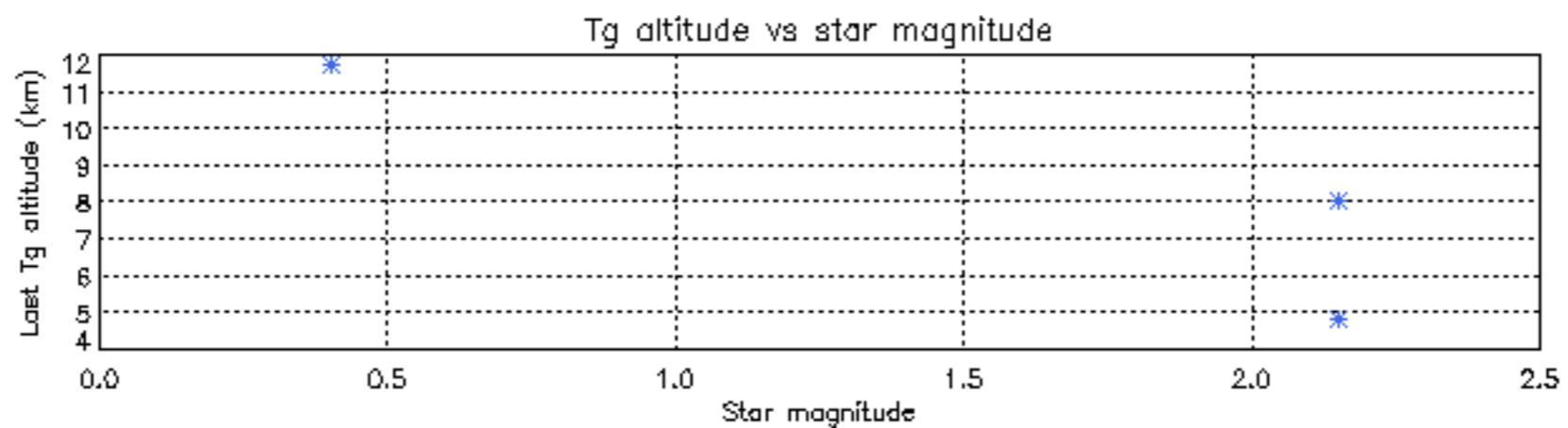
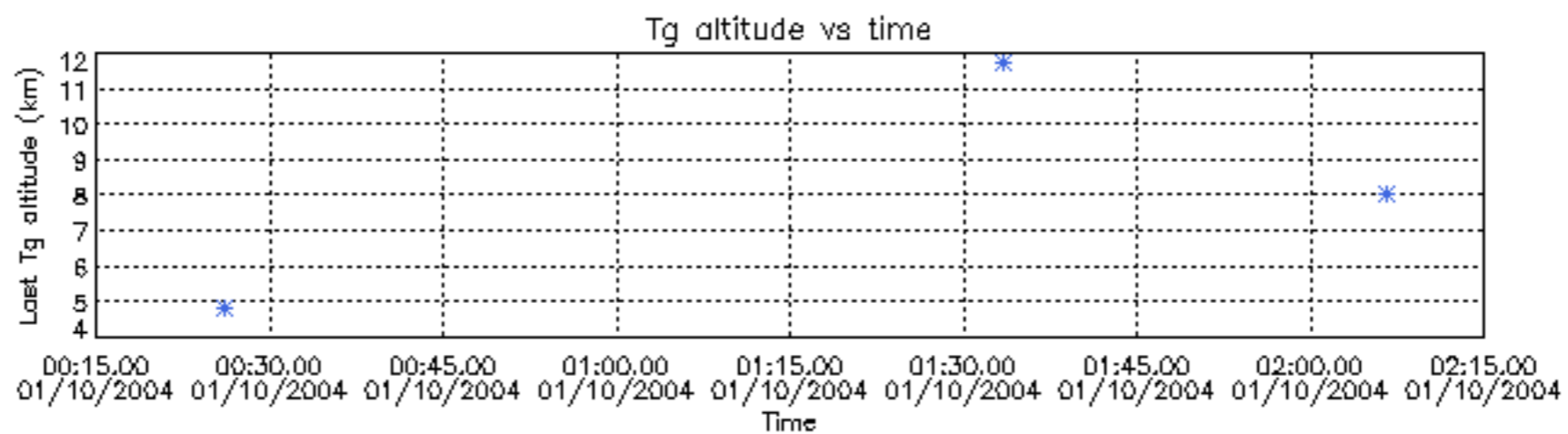
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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 6; 171.9; 01-OCT-2004 01:49:35; Dark ; 56.5; 2; Alp Car ;-0.74; 7000;occ; 113; 0;13527
 7; 308.8; 01-OCT-2004 01:51:52; Dark ; 65.5; 108; Alp Col ; 2.65; 15200;occ; 131; 0;13527
 8; 602.9; 01-OCT-2004 01:56:46; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;13527
 9; 732.6; 01-OCT-2004 01:58:56; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13527
 10; 819.5; 01-OCT-2004 02:00:23; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;13527
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 22; 3263.7; 01-OCT-2004 02:41:07; Bright; 54.5; 160; 23Gam Per ; 2.93; 4700;occ; 109; 0;13527
 23; 3423.8; 01-OCT-2004 02:43:47; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13527

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 3; -2042.4; 01-OCT-2004 02:53:17; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;13527
 4; -1848.6; 01-OCT-2004 02:56:31; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;13527
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 22; 1944.5; 01-OCT-2004 03:59:44; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;13528
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 26; 2653.9; 01-OCT-2004 04:11:33; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;13528
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 5; -1523.7; 01-OCT-2004 04:42:32; Bright; 59.0; 24; 66Alp Gem ; 1.58; 10200;occ; 118; 0;13528
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15; 733.3; 01-OCT-2004 05:20:09; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13529
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 7; 2167.5; 01-OCT-2004 20:49:27; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;13538
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12; 3024.3; 01-OCT-2004 21:03:43; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;13538
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19; 4327.2; 01-OCT-2004 21:25:26; Bright; 100.0; 107; 37The Aur ; 2.65; 11000;occ; 200; 0;13538
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6;	-3386.6;	15-OCT-2004	16:56:05;	Bright	;	48.0;	173;	4Bet Tri	;	3.00;	8900;occ;	96;	0;	13736
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8;	-3151.7;	15-OCT-2004	17:00:00;	Bright	;	40.5;	68;	18Alp Cas	;	2.22;	4500;occ;	81;	0;	13736
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11;	-2876.7;	15-OCT-2004	17:04:35;	Bright	;	53.5;	175;	39Del Per	;	3.01;	19400;occ;	107;	0;	13736
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13;	-2431.1;	15-OCT-2004	17:12:01;	Bright	;	38.5;	60;	7Bet UMi	;	2.08;	3950;occ;	77;	0;	13736
14;	-2118.4;	15-OCT-2004	17:17:13;	Bright	;	40.5;	36;	50Alp UMa	;	1.80;	6300;occ;	81;	0;	13736
15;	-2025.0;	15-OCT-2004	17:18:47;	Bright	;	36.0;	82;	48Bet UMa	;	2.37;	10600;occ;	72;	0;	13736
16;	-1821.0;	15-OCT-2004	17:22:11;	Bright	;	36.0;	174;	52Psi UMa	;	3.00;	4400;occ;	72;	0;	13736
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19;	-762.2;	15-OCT-2004	17:39:50;	Dark	;	59.5;	48;	30Alp Hya	;	1.98;	4100;occ;	119;	0;	13736
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22;	140.4;	15-OCT-2004	17:54:52;	Dark	;	39.0;	29;	Bet Car	;	1.67;	10200;occ;	78;	0;	13737
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26;	802.7;	15-OCT-2004	18:05:55;	Dark	;	40.5;	143;	Alp Hyi	;	2.86;	7200;occ;	81;	0;	13737
27;	889.6;	15-OCT-2004	18:07:21;	Dark	;	48.0;	9;	Alp Eri	;	0.45;	24000;occ;	96;	0;	13737
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25;	364.8;	15-OCT-2004	19:39:13;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13738
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12; 1587.8; 17-OCT-2004 02:10:22; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;13756
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24;	348.8;	31-OCT-2004	19:36:04;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;13967
25;	523.6;	31-OCT-2004	19:38:59;	Dark	;	50.5;	2;	Alp Car	;	-0.74;	7000;occ;	101;	0;13967
26;	858.2;	31-OCT-2004	19:44:33;	Dark	;	37.0;	143;	Alp Hyi	;	2.86;	7200;occ;	74;	0;13967