

GOMOS Daily Report 11-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	13OCT2004 05:01:37
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (11OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (12OCT2004 00:00:00)

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

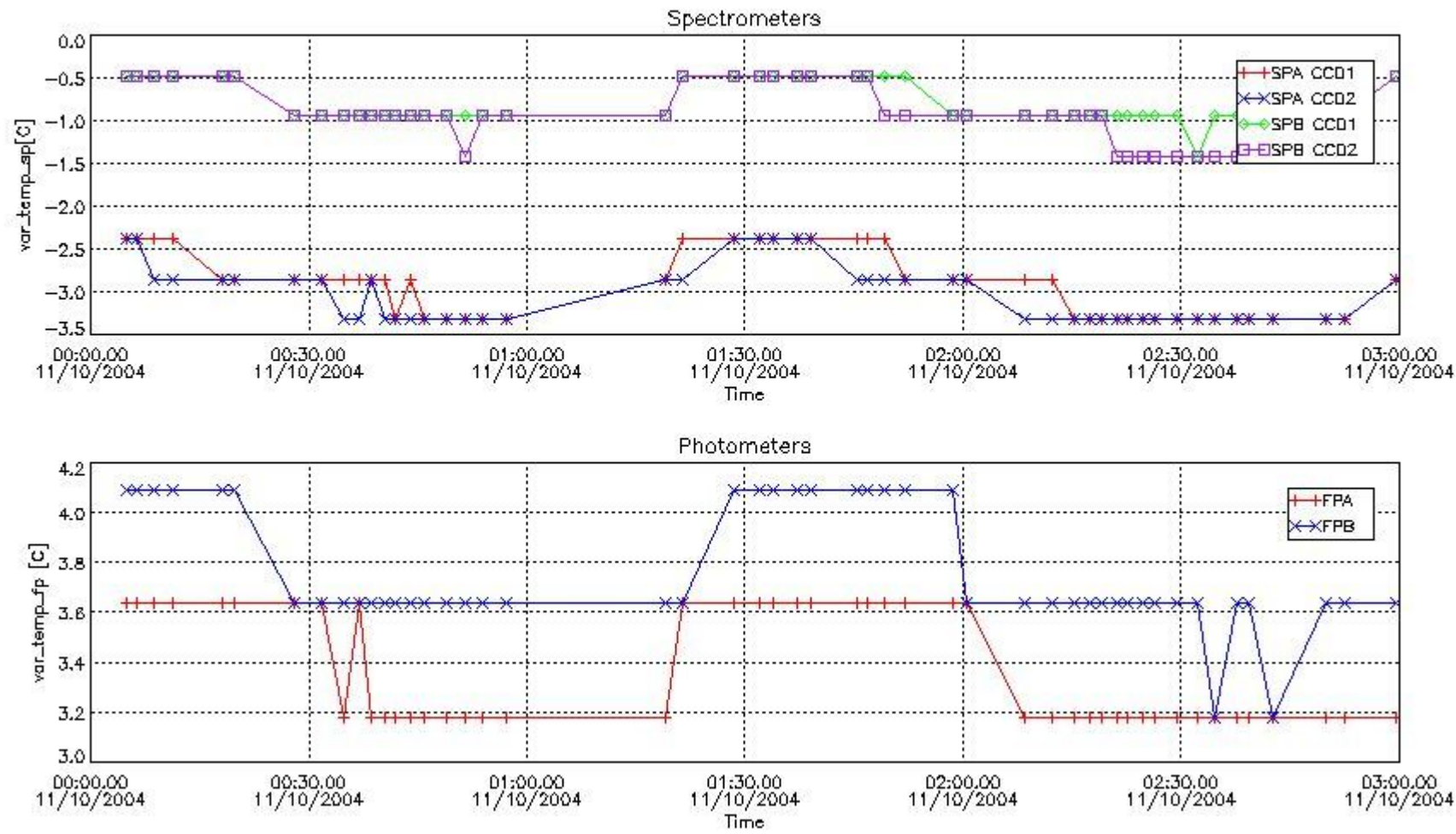
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20041011_000449_000000402031_00088_13669_0007.N1	11-OCT-2004 00:04:49	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	13669	No
GOM_TRA_1PNPDE20041011_000615_000000482031_00088_13669_0008.N1	11-OCT-2004 00:06:15	Dark	48.000	9	Alp Eri	0.45300	24000.	96	13669	No
GOM_TRA_1PNPDE20041011_000836_000000522031_00088_13669_0009.N1	11-OCT-2004 00:08:36	Dark	51.500	157	The1Eri	2.9060	9300.0	103	13669	No
GOM_TRA_1PNPDE20041011_001123_000000422031_00088_13669_0010.N1	11-OCT-2004 00:11:23	Twilight	41.500	84	Alp Phe	2.3970	4500.0	83	13669	No
GOM_TRA_1PNPDE20041011_001801_000000532031_00088_13669_0011.N1	11-OCT-2004 00:18:01	Bright	52.500	52	16Bet Cet	2.0370	4500.0	105	13669	No
GOM_TRA_1PNPDE20041011_001946_000001532031_00088_13669_0012.N1	11-OCT-2004 00:19:46	Bright	153.00	165	34Gam Eri	2.9500	3200.0	306	13669	No
GOM_TRA_1PNPDE20041011_002753_000000382031_00088_13669_0013.N1	11-OCT-2004 00:27:53	Bright	38.000	140	88Gam Peg	2.8340	26000.	76	13669	No
GOM_TRA_1PNPDE20041011_003144_000000412031_00088_13669_0014.N1	11-OCT-2004 00:31:44	Bright	41.000	93	53Bet Peg	2.5200	3100.0	82	13669	No
GOM_TRA_1PNPDE20041011_003444_000000452031_00088_13669_0015.N1	11-OCT-2004 00:34:44	Bright	45.000	53	43Bet And	2.0480	3300.0	90	13669	No
GOM_TRA_1PNPDE20041011_003649_000000522031_00088_13669_0016.N1	11-OCT-2004 00:36:49	Bright	52.000	173	4Bet Tri	3.0040	8900.0	104	13669	No
GOM_TRA_1PNPDE20041011_003832_000000532031_00088_13669_0017.N1	11-OCT-2004 00:38:32	Bright	53.000	73	57Gam1And	2.2600	13100.	106	13669	No
GOM_TRA_1PNPDE20041011_004029_000000392031_00088_13669_0018.N1	11-OCT-2004 00:40:29	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	13669	No
GOM_TRA_1PNPDE20041011_004155_000000422031_00088_13669_0019.N1	11-OCT-2004 00:41:55	Bright	41.500	110	37Del Cas	2.6780	8900.0	83	13669	No
GOM_TRA_1PNPDE20041011_004401_000000482031_00088_13669_0020.N1	11-OCT-2004 00:44:01	Bright	48.000	160	23Gam Per	2.9300	4700.0	96	13669	No
GOM_TRA_1PNPDE20041011_004548_000000562031_00088_13669_0021.N1	11-OCT-2004 00:45:48	Bright	56.000	175	39Del Per	3.0100	19400.	112	13669	No
GOM_TRA_1PNPDE20041011_004852_000000382031_00088_13669_0022.N1	11-OCT-2004 00:48:52	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	13669	No
GOM_TRA_1PNPDE20041011_005136_000000402031_00088_13669_0023.N1	11-OCT-2004 00:51:36	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	13669	No
GOM_TRA_1PNPDE20041011_005359_000000822031_00088_13669_0024.N1	11-OCT-2004 00:53:59	Bright	82.000	6	13Alp Aur	0.080000	3400.0	164	13669	No
GOM_TRA_1PNPDE20041011_005703_000000402031_00088_13669_0025.N1	11-OCT-2004 00:57:03	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	13669	No
GOM_TRA_1PNPDE20041011_011859_000000592031_00088_13669_0000.N1	11-OCT-2004 01:18:59	Twilight	59.000	48	30Alp Hya	1.9770	4100.0	118	13669	No
GOM_TRA_1PNPDE20041011_012123_000001222031_00088_13669_0001.N1	11-OCT-2004 01:21:23	Dark	122.00	8	10Alp CMi	0.40000	6500.0	244	13669	No
GOM_TRA_1PNPDE20041011_012835_000000482031_00088_13669_0002.N1	11-OCT-2004 01:28:35	Dark	47.500	65	Lam Vel	2.2040	4400.0	95	13669	No
GOM_TRA_1PNPDE20041011_013200_000000422031_00088_13669_0003.N1	11-OCT-2004 01:32:00	Dark	42.000	71	lot Car	2.2460	7700.0	84	13669	No
GOM_TRA_1PNPDE20041011_013346_000000672031_00089_13670_0004.N1	11-OCT-2004 01:33:46	Dark	66.500	23	21Eps CMa	1.5020	26000.	133	13670	No
GOM_TRA_1PNPDE20041011_013707_000000472031_00089_13670_0005.N1	11-OCT-2004 01:37:07	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	13670	No
GOM_TRA_1PNPDE20041011_013909_000001342031_00089_13670_0006.N1	11-OCT-2004 01:39:09	Dark	134.00	47	2Bet CMa	1.9760	28000.	268	13670	No
GOM_TRA_1PNPDE20041011_014527_000000402031_00089_13670_0007.N1	11-OCT-2004 01:45:27	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	13670	No
GOM_TRA_1PNPDE20041011_014651_000000462031_00089_13670_0008.N1	11-OCT-2004 01:46:51	Dark	46.000	9	Alp Eri	0.45300	24000.	92	13670	No
GOM_TRA_1PNPDE20041011_014912_000000482031_00089_13670_0009.N1	11-OCT-2004 01:49:12	Dark	48.000	157	The1Eri	2.9060	9300.0	96	13670	No
GOM_TRA_1PNPDE20041011_015200_000000432031_00089_13670_0010.N1	11-OCT-2004 01:52:00	Twilight	43.000	84	Alp Phe	2.3970	4500.0	86	13670	No
GOM_TRA_1PNPDE20041011_015839_000000492031_00089_13670_0011.N1	11-OCT-2004 01:58:39	Bright	48.500	52	16Bet Cet	2.0370	4500.0	97	13670	No
GOM_TRA_1PNPDE20041011_020022_000001642031_00089_13670_0012.N1	11-OCT-2004 02:00:22	Bright	164.00	165	34Gam Eri	2.9500	3200.0	328	13670	No
GOM_TRA_1PNPDE20041011_020826_000000422031_00089_13670_0013.N1	11-OCT-2004 02:08:26	Bright	42.000	140	88Gam Peg	2.8340	26000.	84	13670	No
GOM_TRA_1PNPDE20041011_021219_000000392031_00089_13670_0014.N1	11-OCT-2004 02:12:19	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	13670	No
GOM_TRA_1PNPDE20041011_021520_000000452031_00089_13670_0015.N1	11-OCT-2004 02:15:20	Bright	45.000	53	43Bet And	2.0480	3300.0	90	13670	No
GOM_TRA_1PNPDE20041011_021725_000000502031_00089_13670_0016.N1	11-OCT-2004 02:17:25	Bright	49.500	173	4Bet Tri	3.0040	8900.0	99	13670	No
GOM_TRA_1PNPDE20041011_021910_000000482031_00089_13670_0017.N1	11-OCT-2004 02:19:10	Bright	47.500	73	57Gam1And	2.2600	13100.	95	13670	No
GOM_TRA_1PNPDE20041011_022104_000000392031_00089_13670_0018.N1	11-OCT-2004 02:21:04	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	13670	No
GOM_TRA_1PNPDE20041011_022230_000000402031_00089_13670_0019.N1	11-OCT-2004 02:22:30	Bright	39.500	110	37Del Cas	2.6780	8900.0	79	13670	No
GOM_TRA_1PNPDE20041011_022437_000000472031_00089_13670_0020.N1	11-OCT-2004 02:24:37	Bright	46.500	160	23Gam Per	2.9300	4700.0	93	13670	No
GOM_TRA_1PNPDE20041011_022623_000000572031_00089_13670_0021.N1	11-OCT-2004 02:26:23	Bright	56.500	175	39Del Per	3.0100	19400.	113	13670	No
GOM_TRA_1PNPDE20041011_022927_000000392031_00089_13670_0022.N1	11-OCT-2004 02:29:27	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	13670	No
GOM_TRA_1PNPDE20041011_023212_000000392031_00089_13670_0000.N1	11-OCT-2004 02:32:12	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	13670	No
GOM_TRA_1PNPDE20041011_023434_000000832031_00089_13670_0001.N1	11-OCT-2004 02:34:34	Bright	83.000	6	13Alp Aur	0.080000	3400.0	166	13670	No
GOM_TRA_1PNPDE20041011_023739_000000392031_00089_13670_0002.N1	11-OCT-2004 02:37:39	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	13670	No
GOM_TRA_1PNPDE20041011_023912_000000382031_00089_13670_0003.N1	11-OCT-2004 02:39:12	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	13670	No
GOM_TRA_1PNPDE20041011_024231_000000392031_00089_13670_0004.N1	11-OCT-2004 02:42:31	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	13670	No
GOM_TRA_1PNPDE20041011_024953_000000872031_00089_13670_0005.N1	11-OCT-2004 02:49:53	Bright	87.000	17	78Bet Gem	1.1610	4500.0	174	13670	No
GOM_TRA_1PNPDE20041011_025232_000000412031_00089_13670_0006.N1	11-OCT-2004 02:52:32	Twilight	40.500	22	32Alp Leo	1.3600	15200.	81	13670	No

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



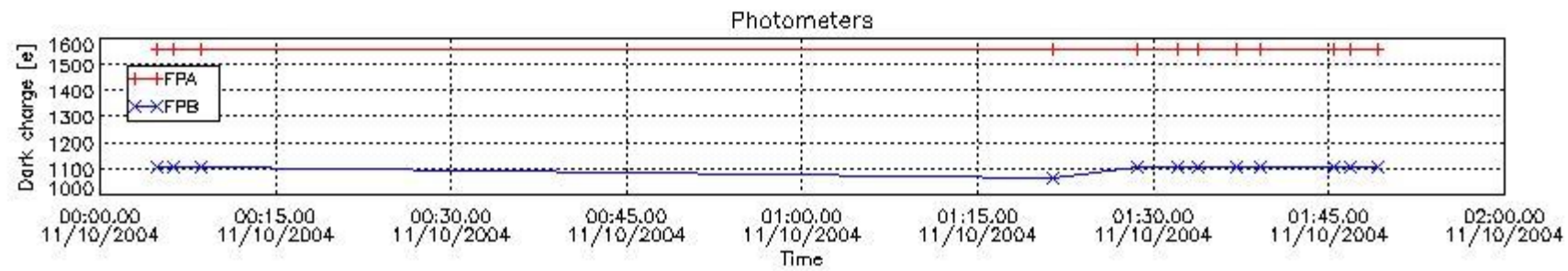
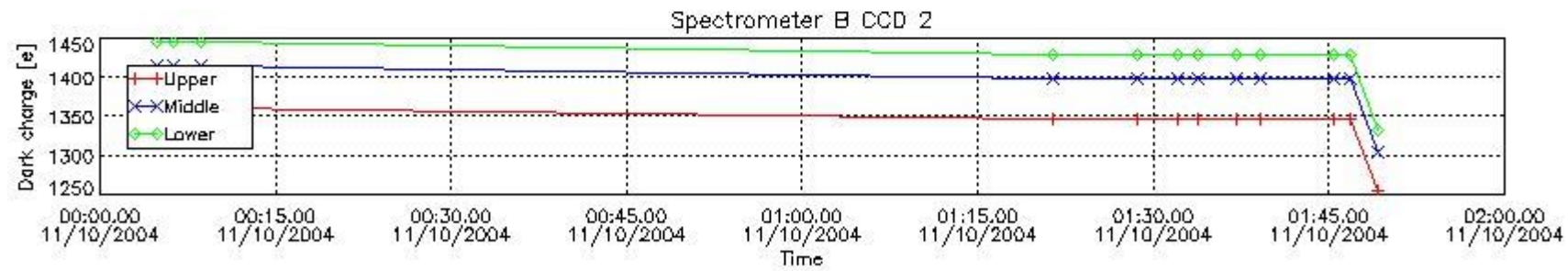
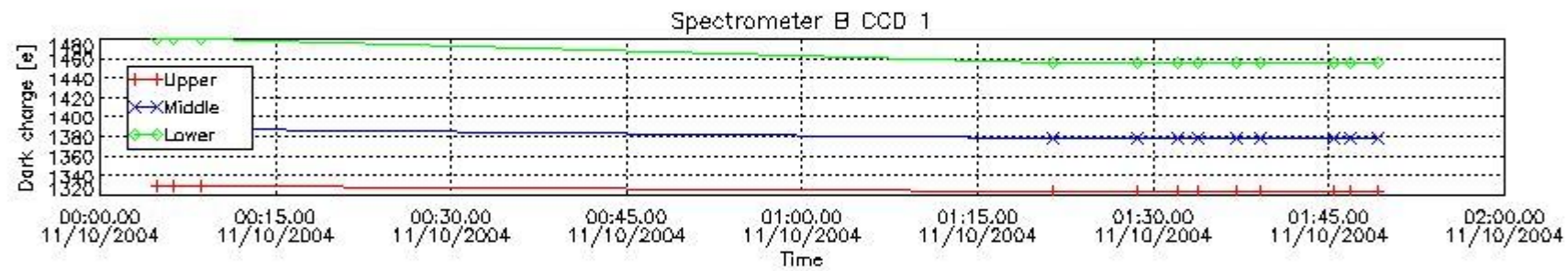
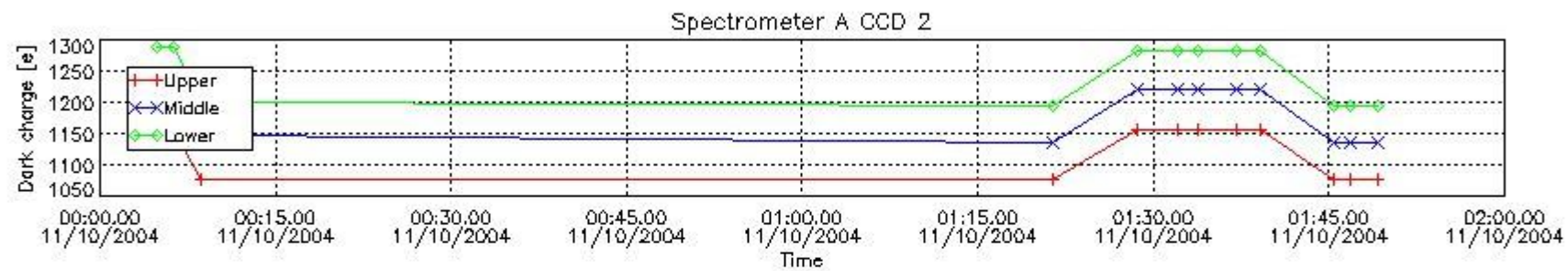
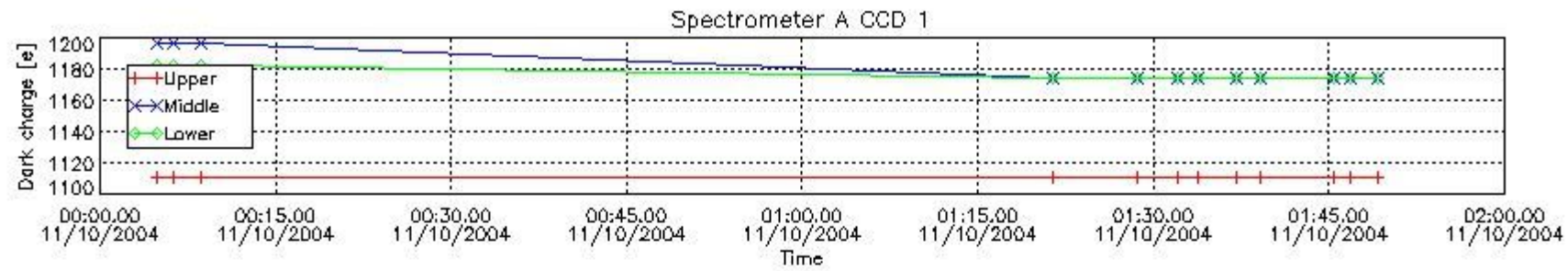
4. Overview of dark signal processing per product

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



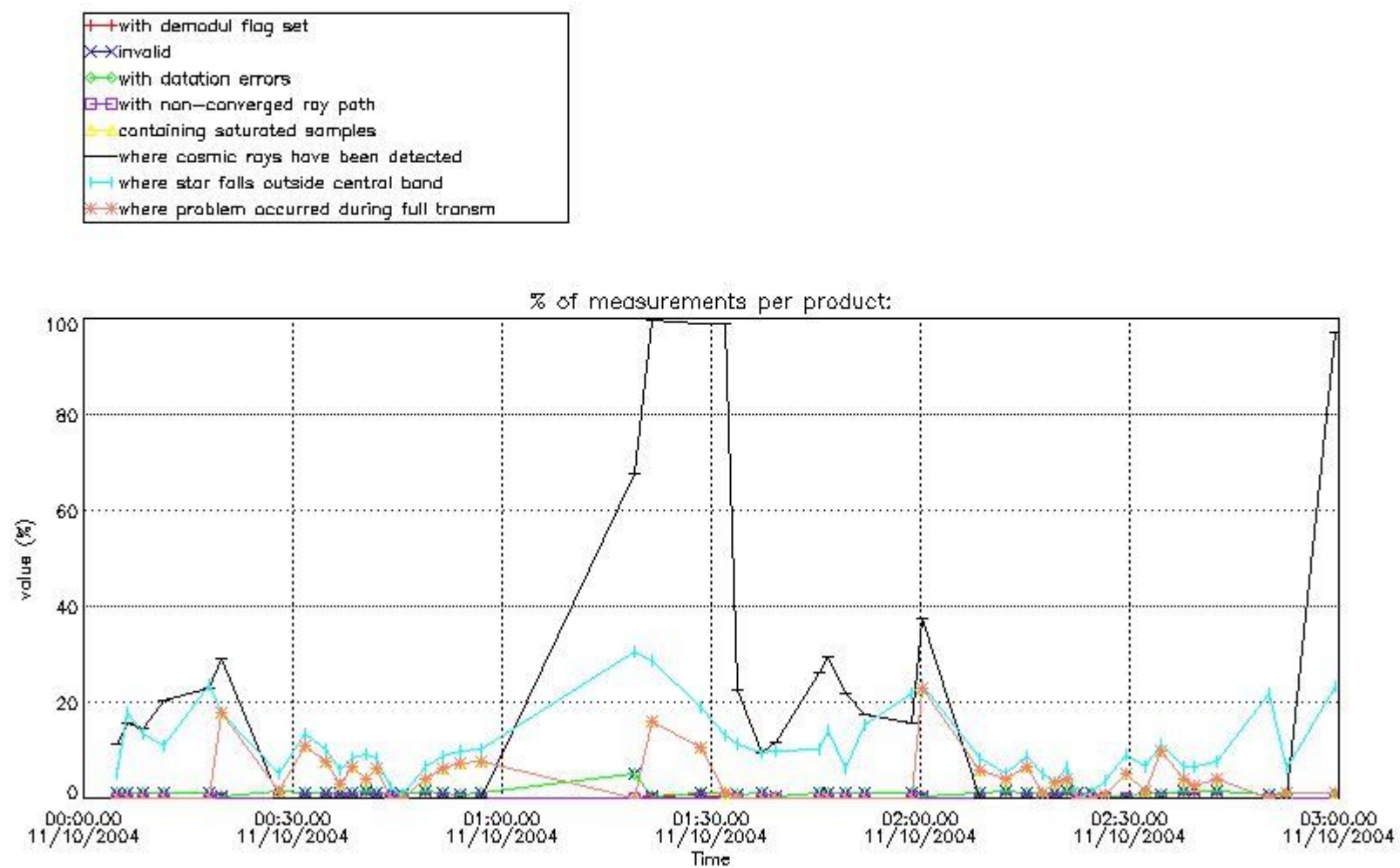
5. Demodulation flag and quality information monitoring

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.

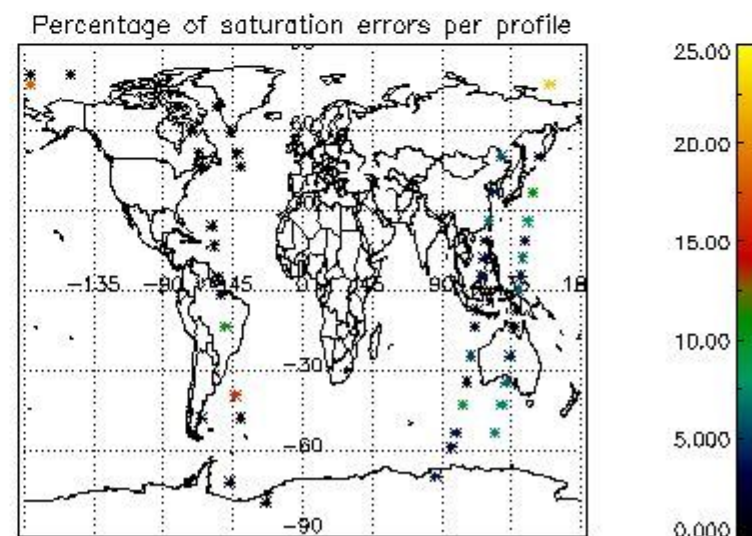
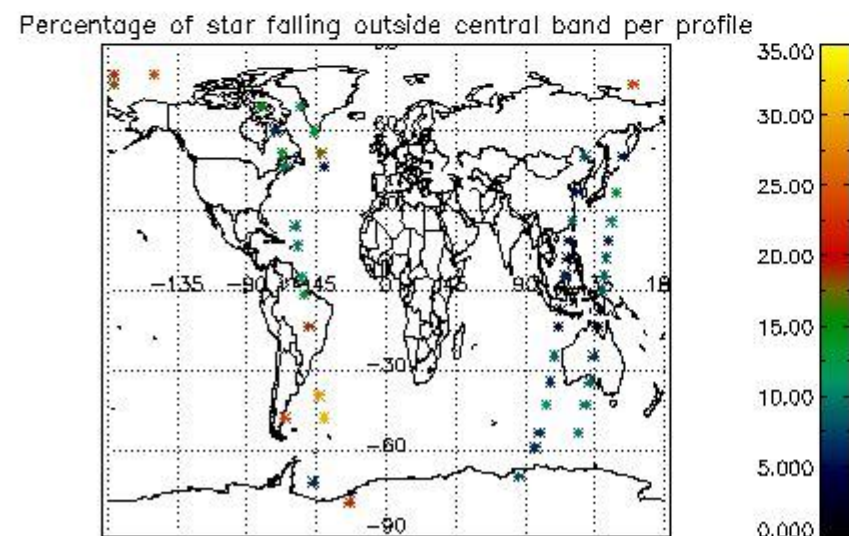
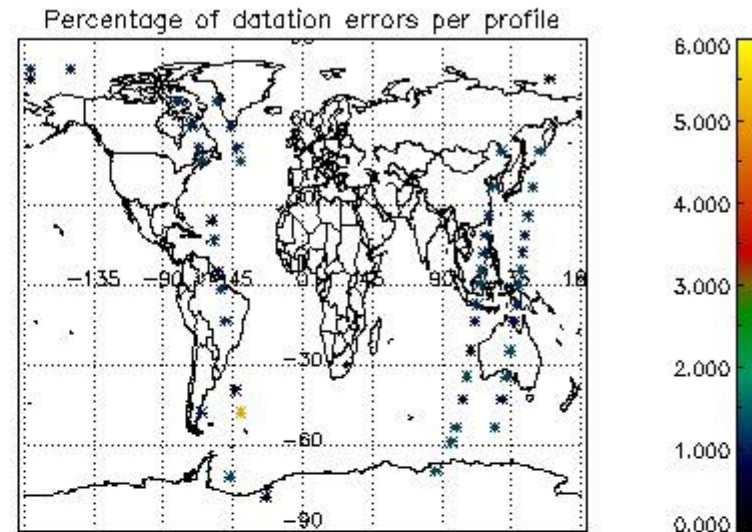
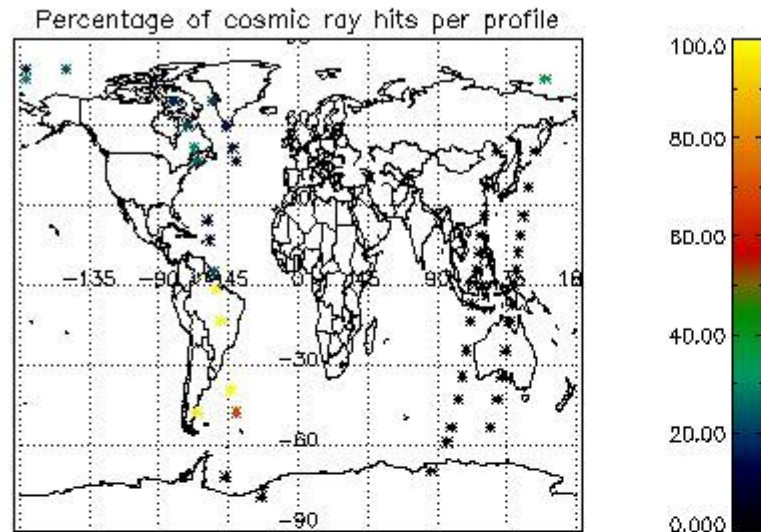
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.0000 %
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)



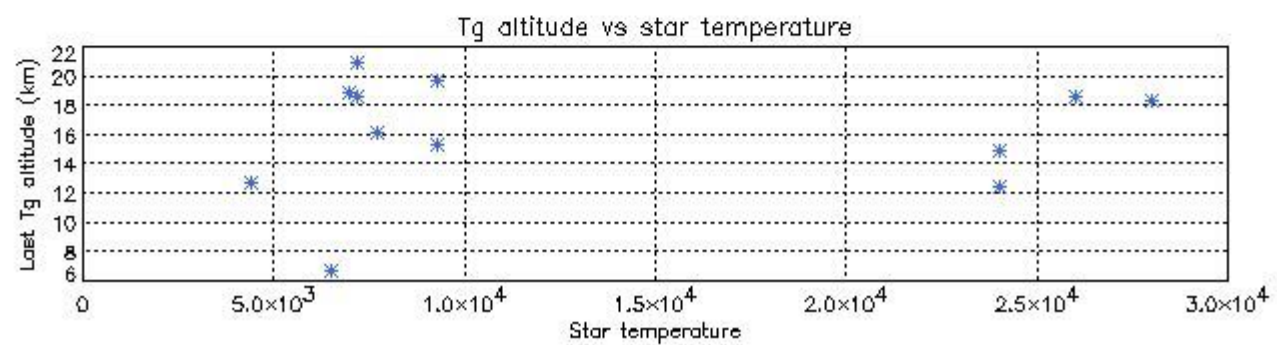
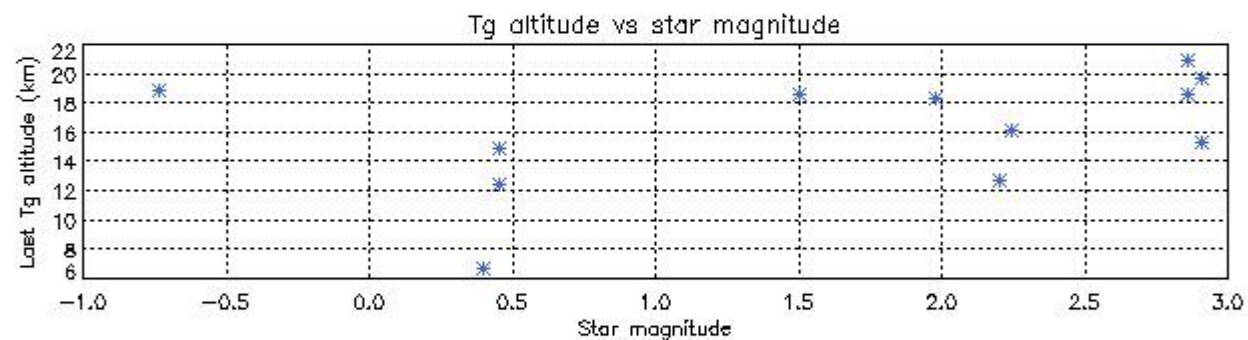
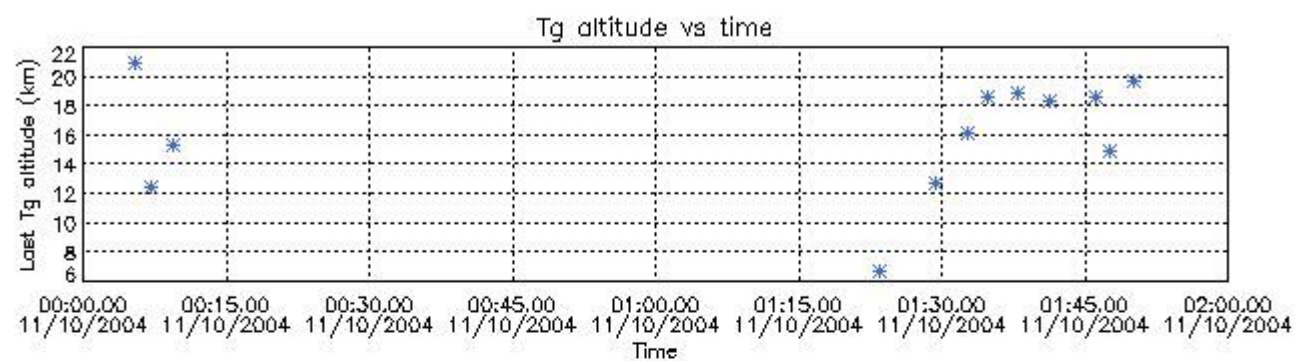
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.079	19.427	13.047
St. deviation:	3.9837	4.5588	5.5499
Maximum:	20.924	27.086	19.235
Minimum:	6.7387	9.1237	5.6795
Number of data:	12.000	33.000	5.0000

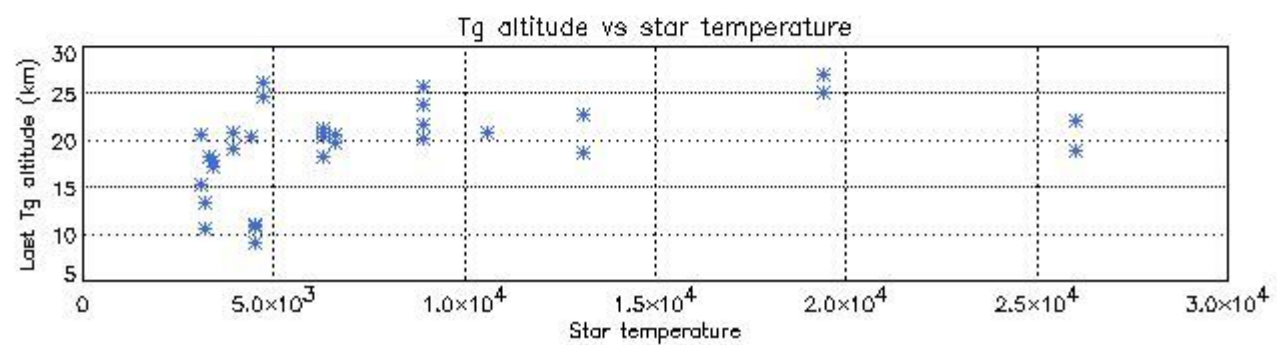
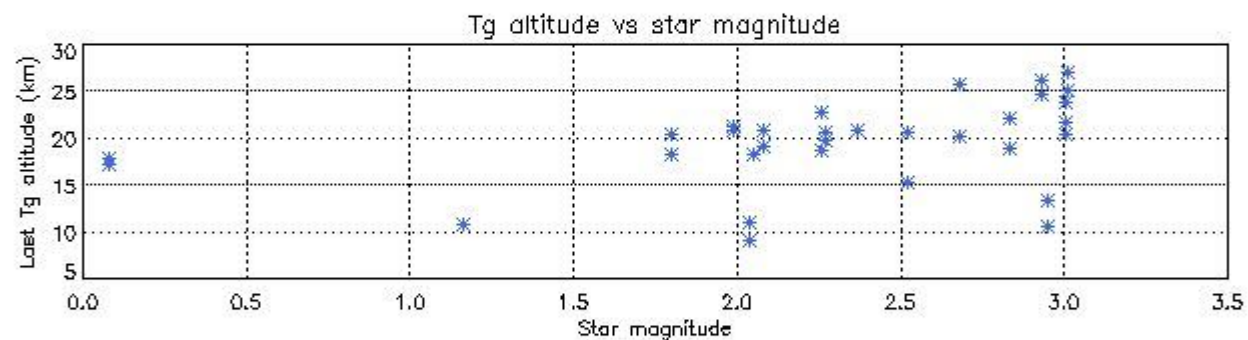
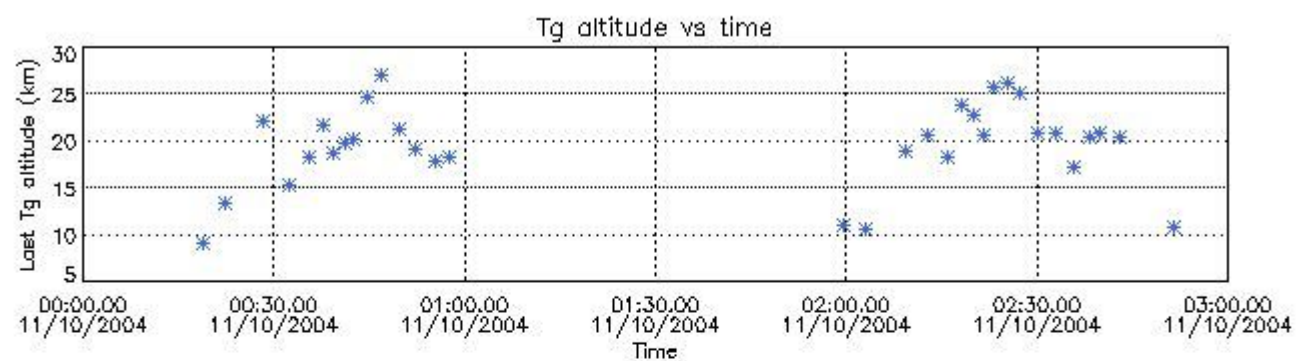
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



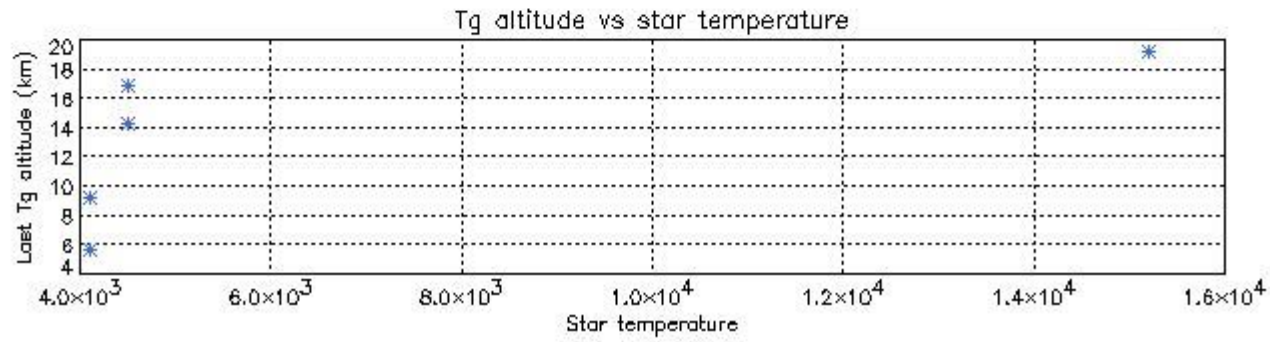
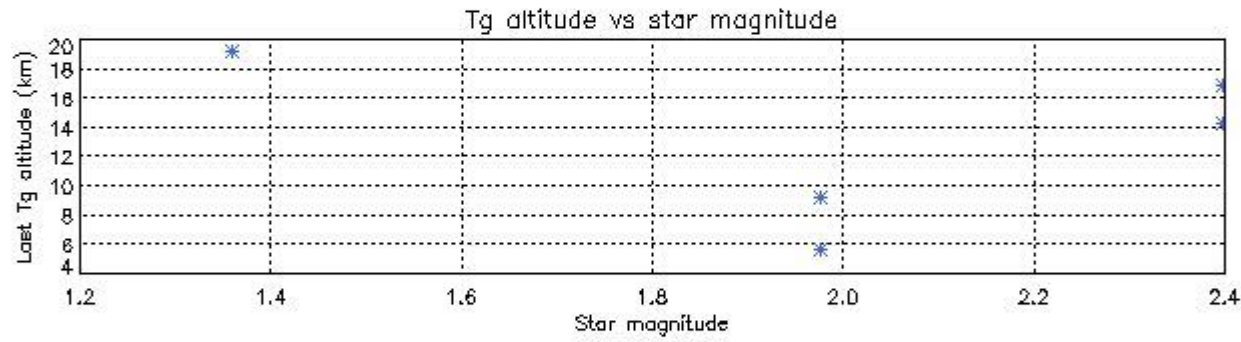
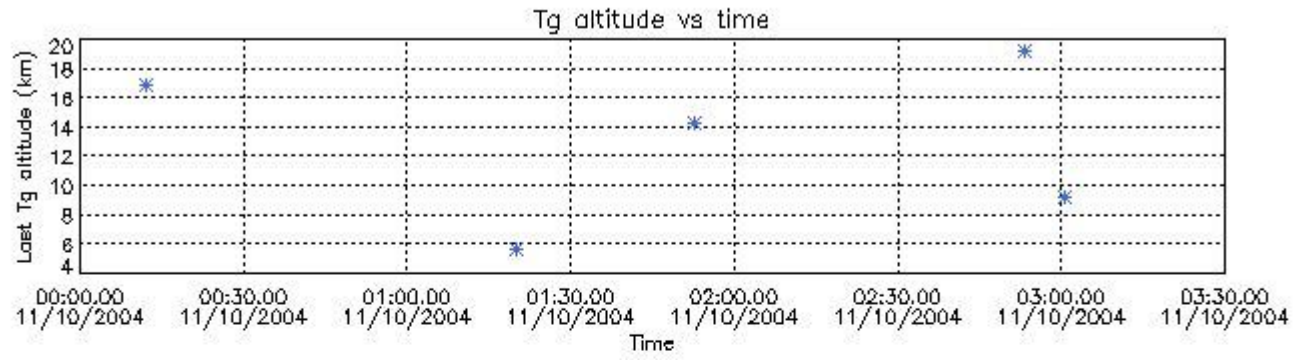
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

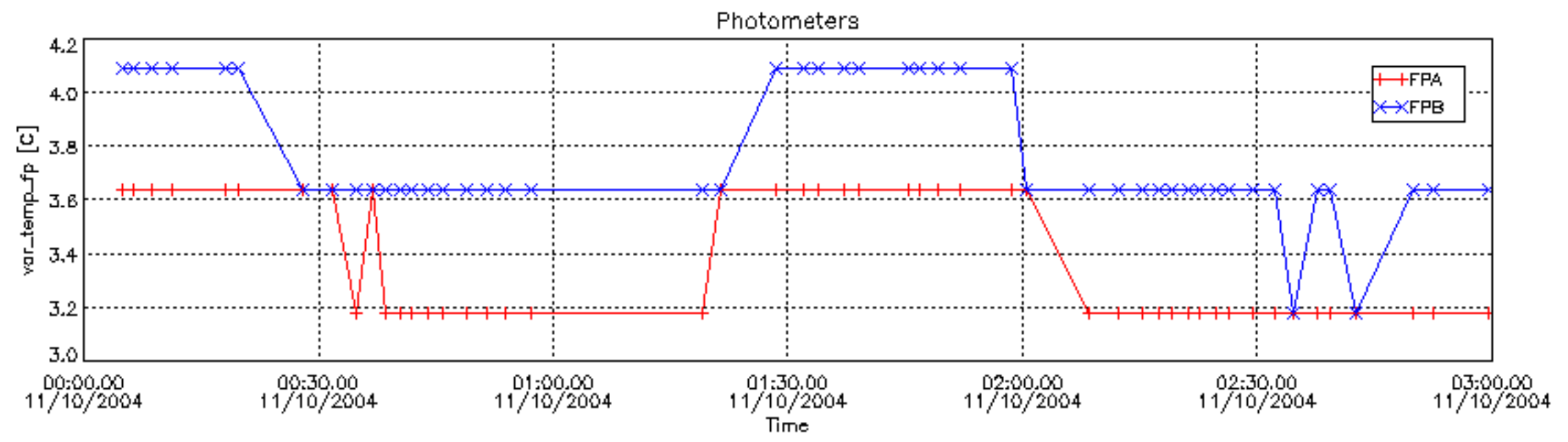
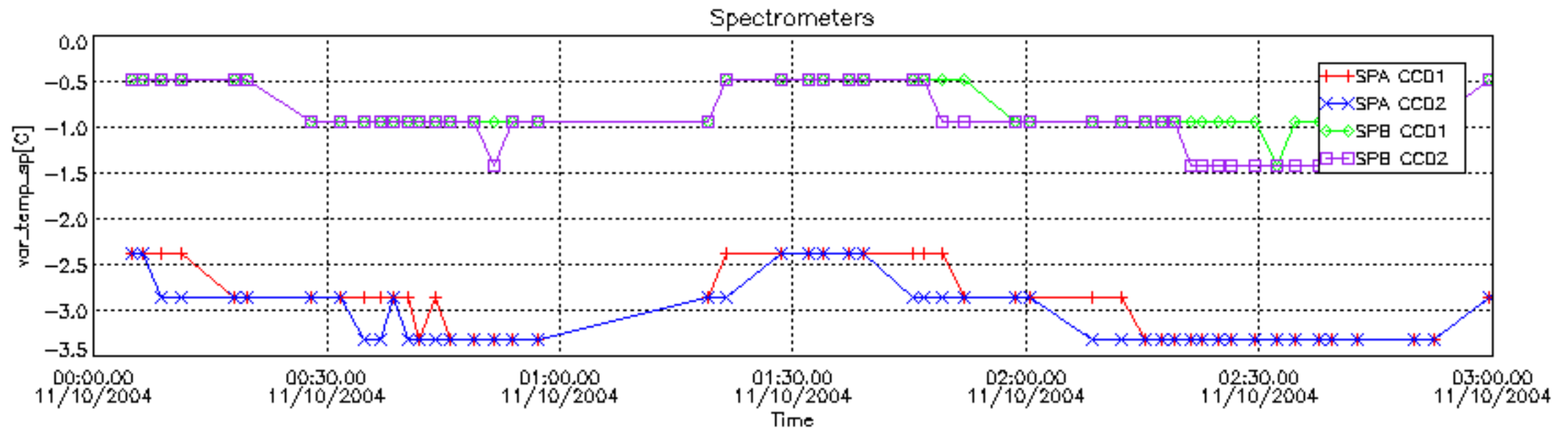
Tangent altitude at which the star is lost

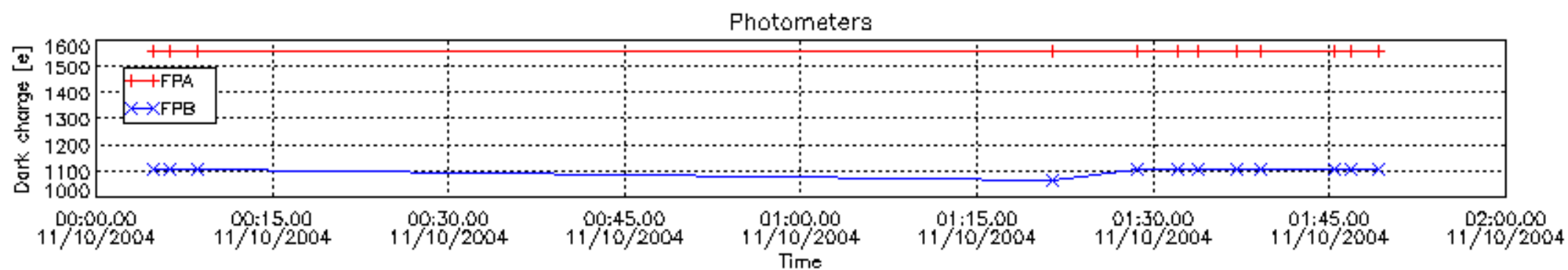
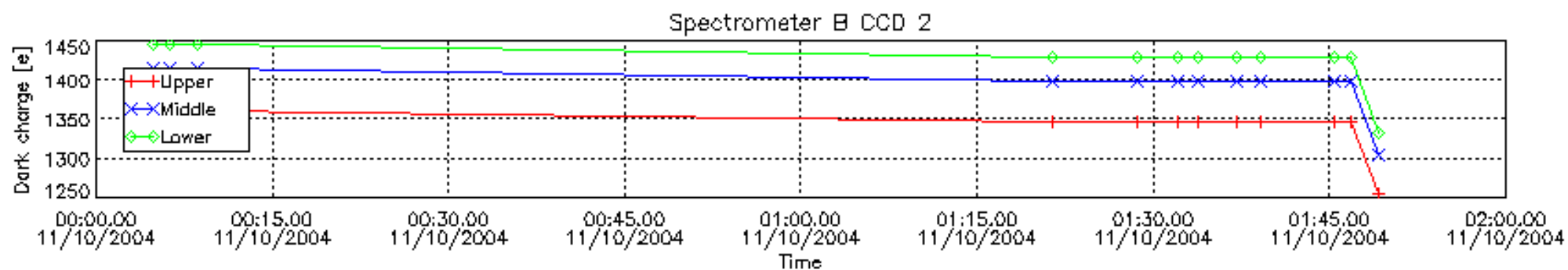
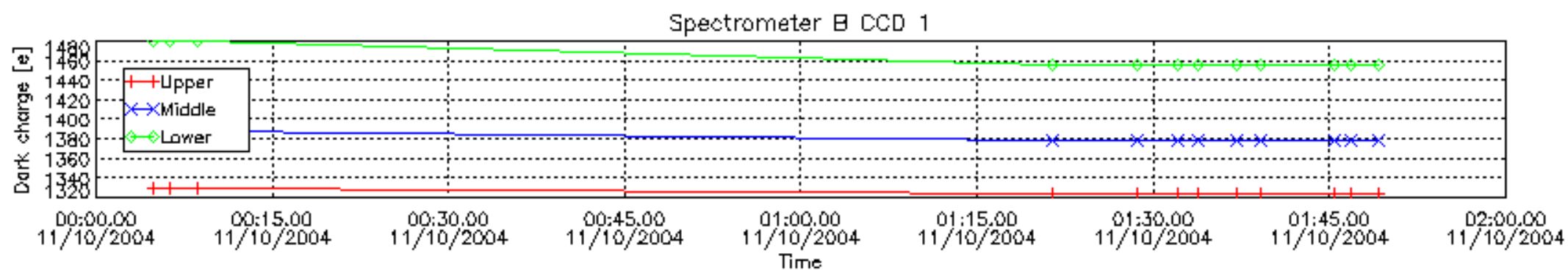
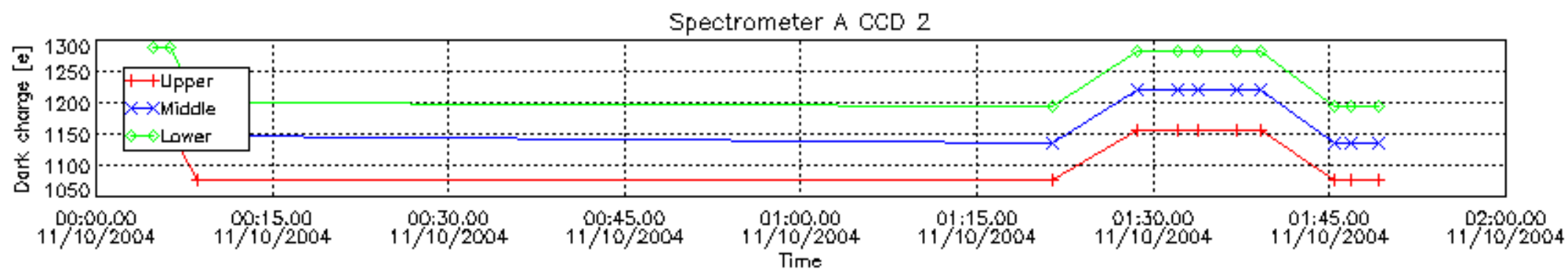
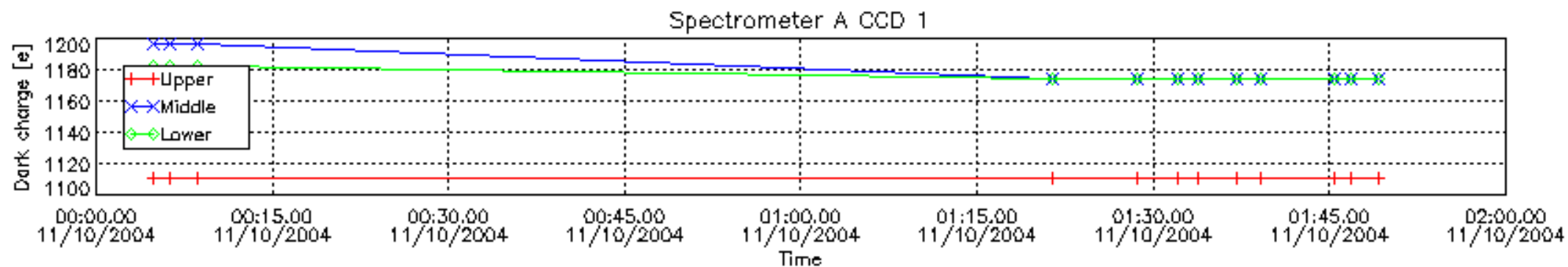


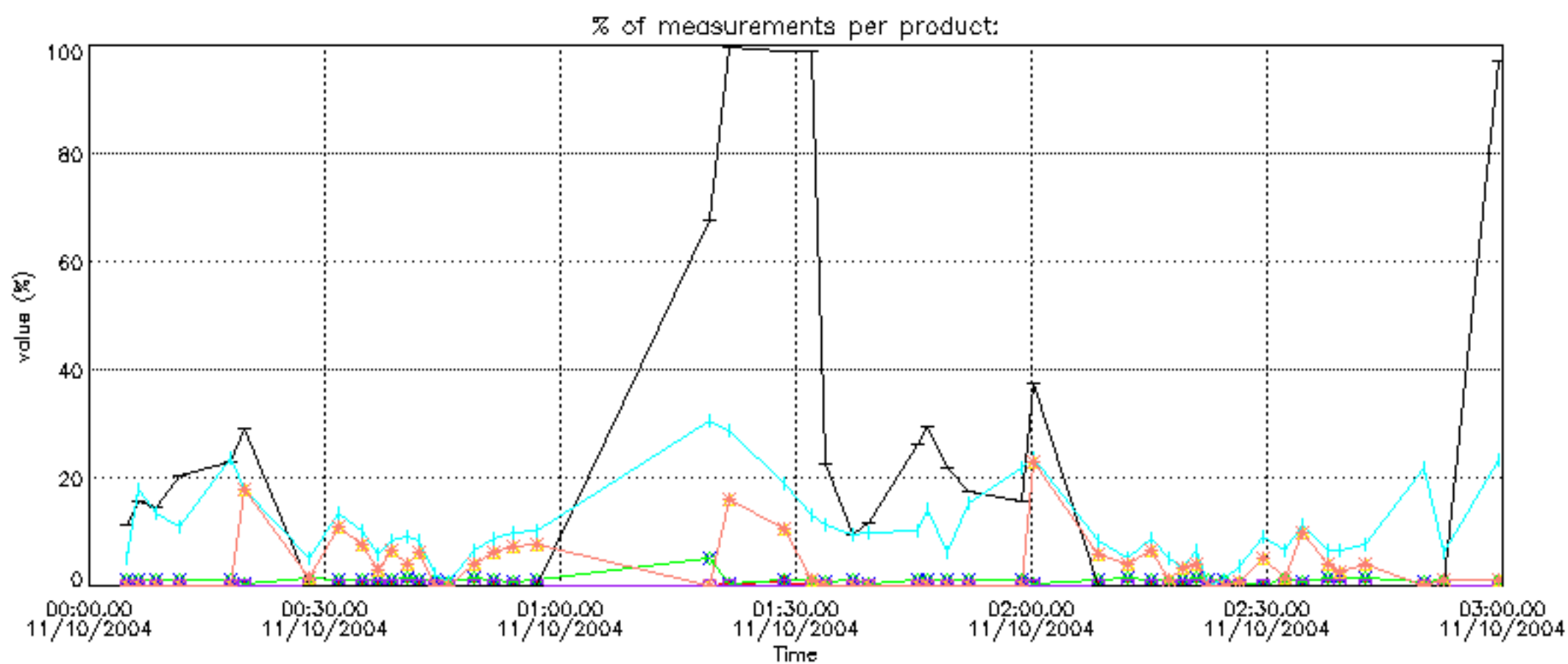
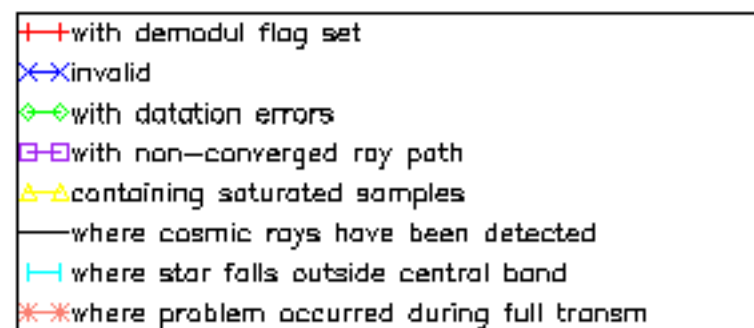
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

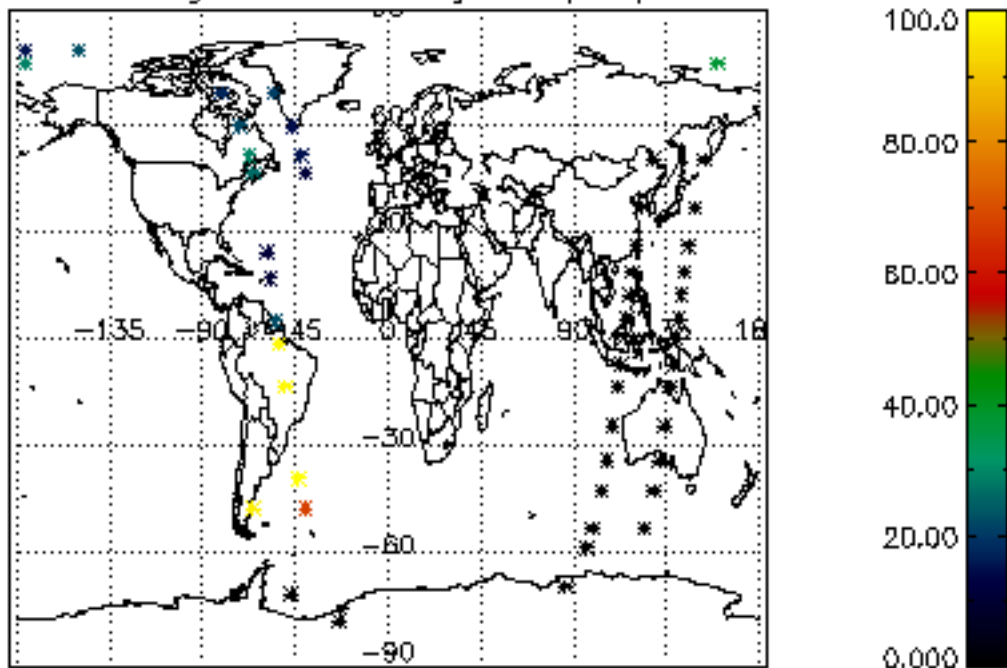
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.2	1447.5	1462.0	1448.2
St. deviation:	5.1426	6.1015	6.7316	7.5364
Maximum:	1507.0	1483.0	1523.0	1513.0
Minimum:	1435.0	1418.0	1452.0	1433.0
Number of data:	18950.	18950.	44650.	44650.



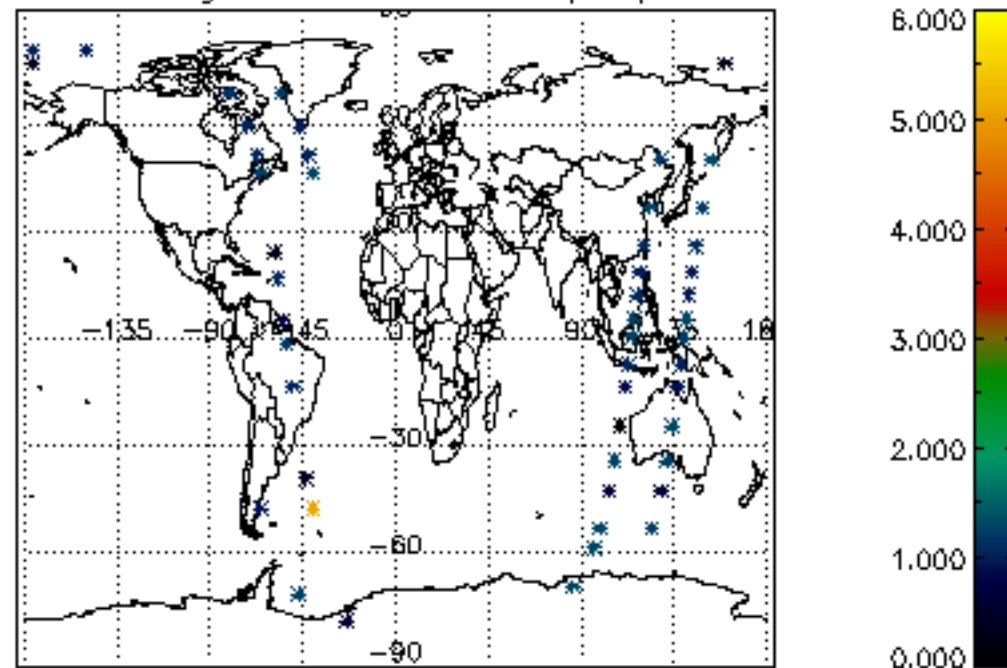




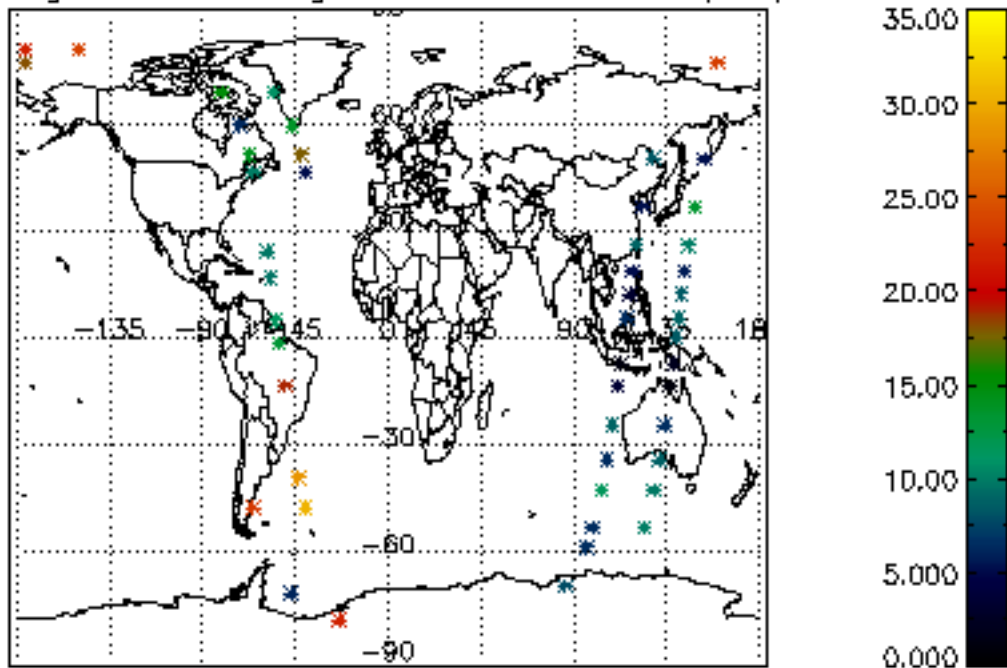
Percentage of cosmic ray hits per profile



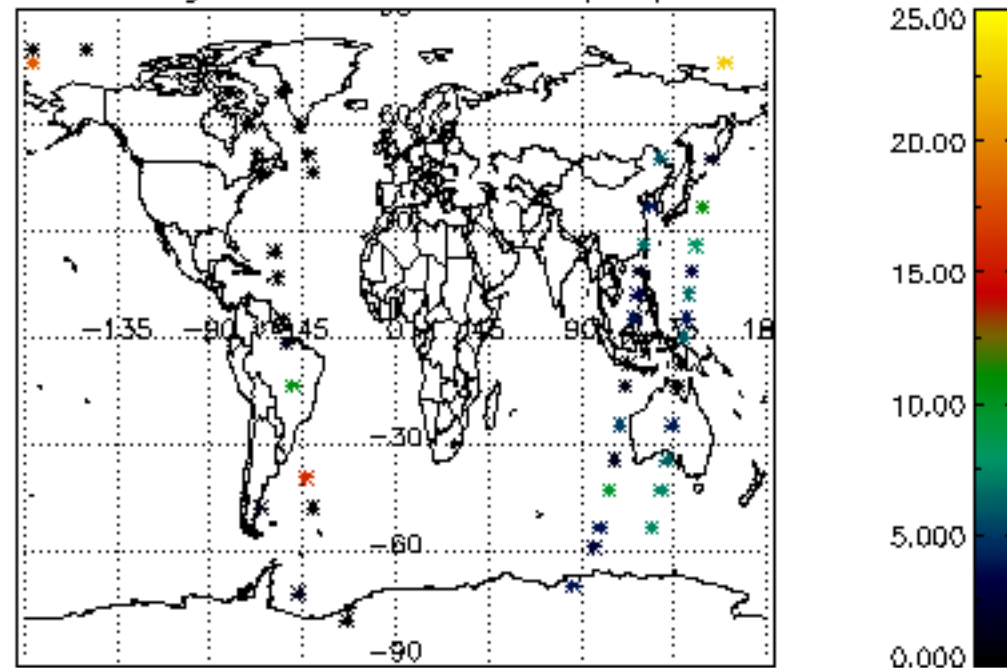
Percentage of datation errors per profile



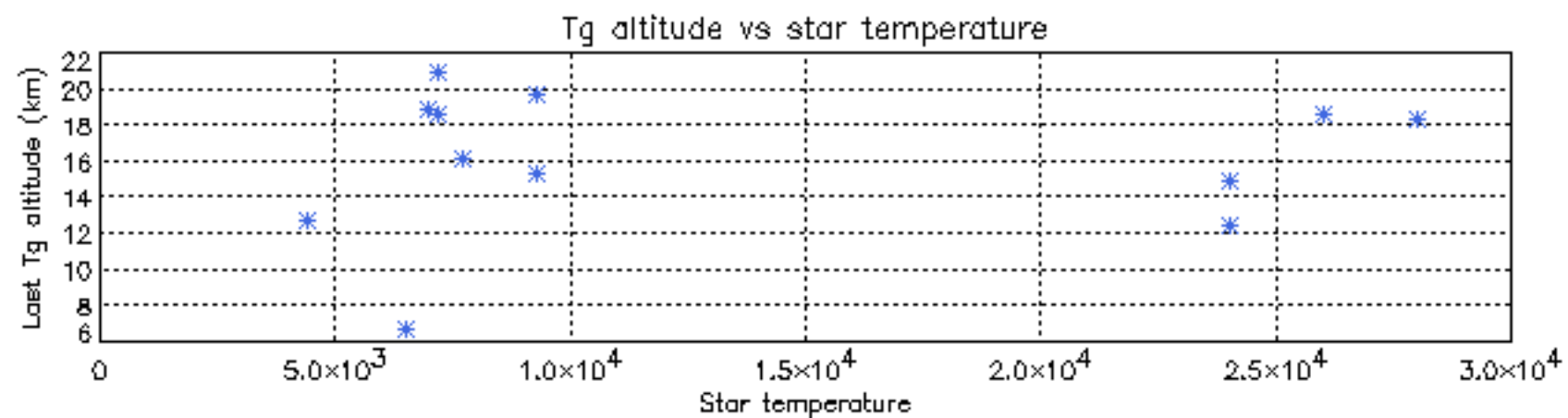
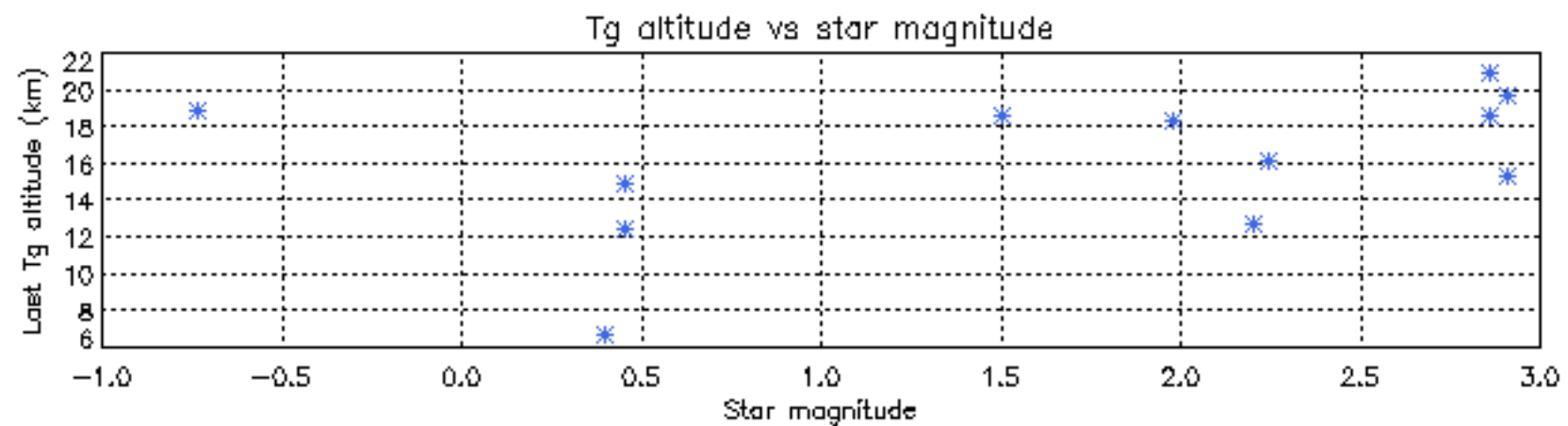
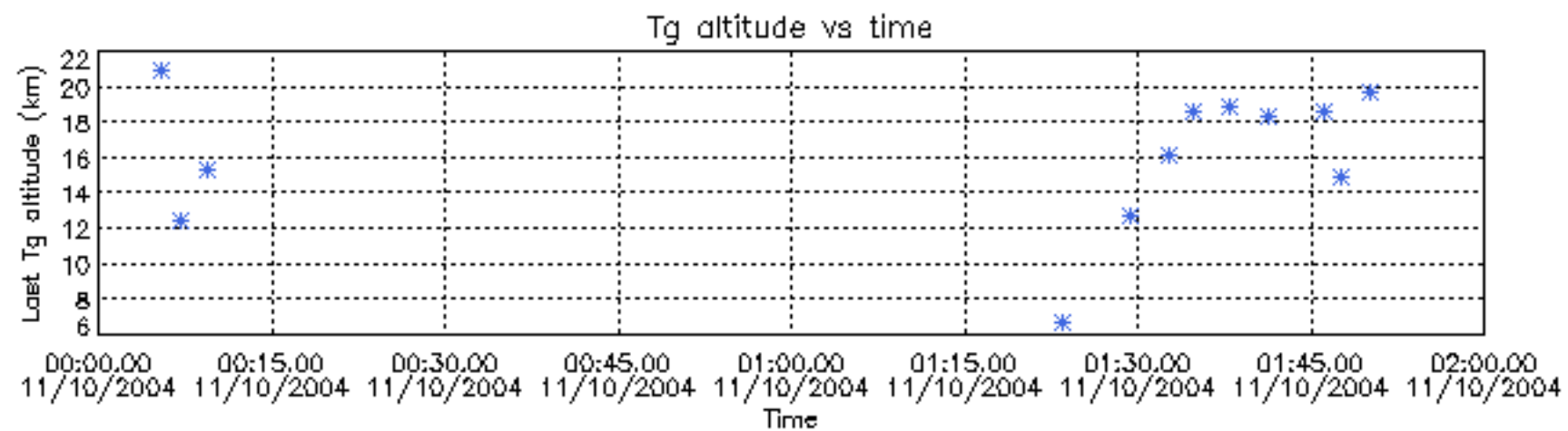
Percentage of star falling outside central band per profile



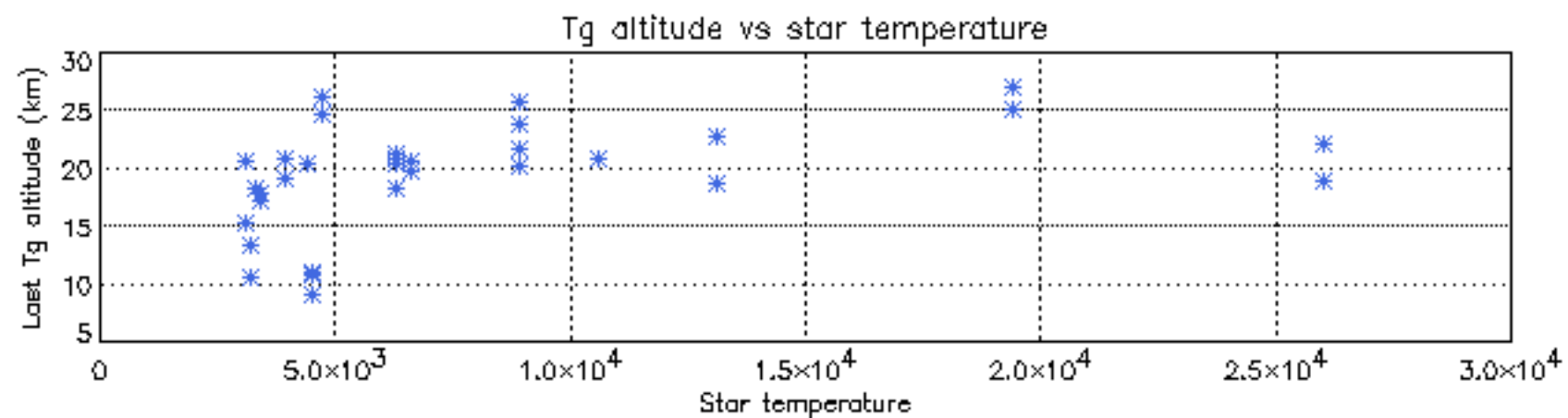
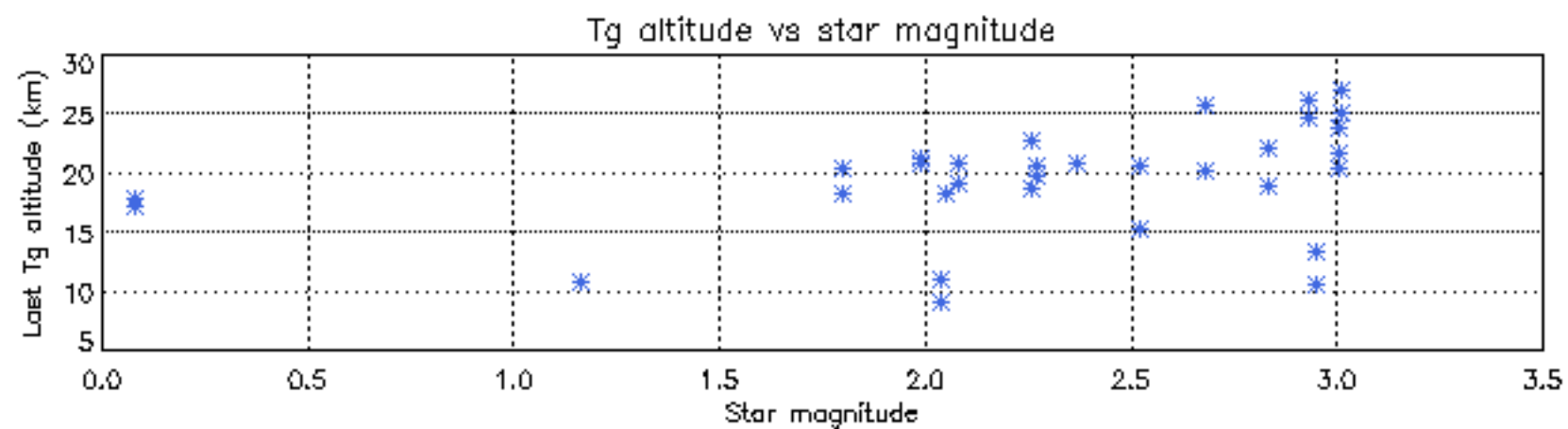
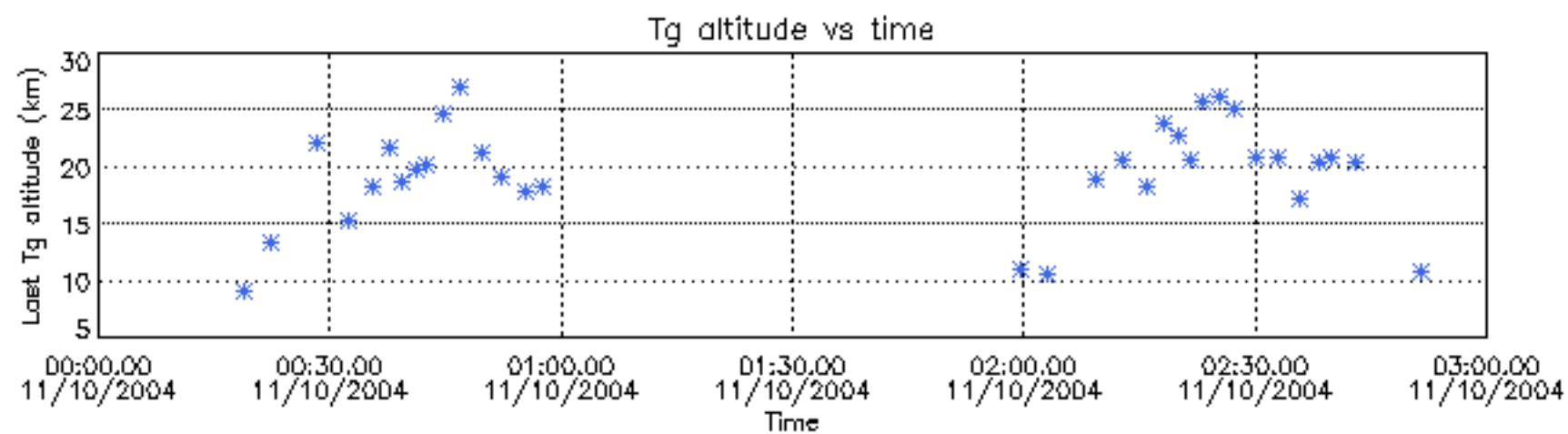
Percentage of saturation errors per profile



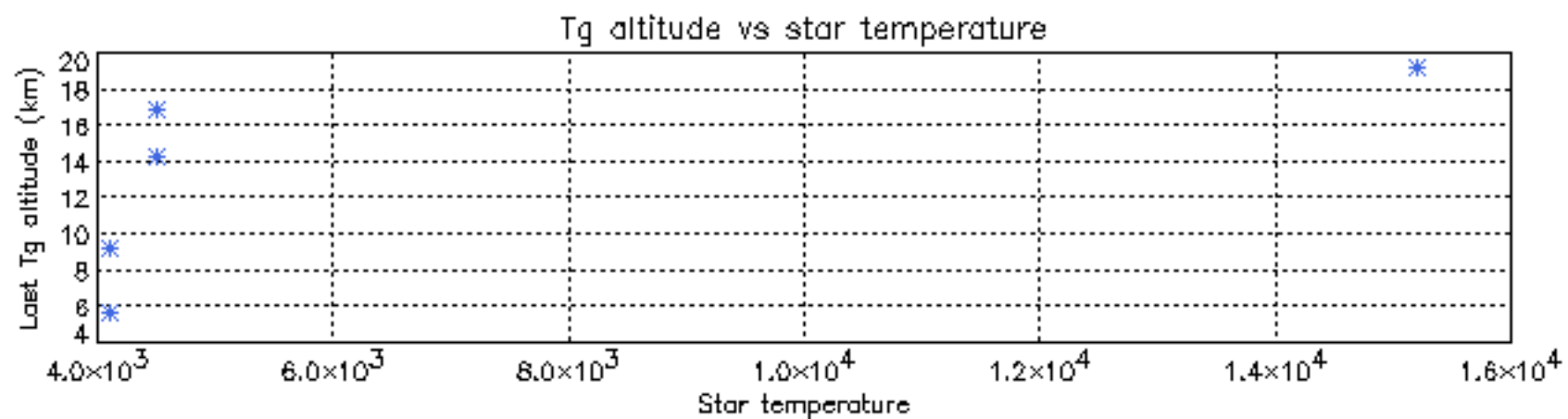
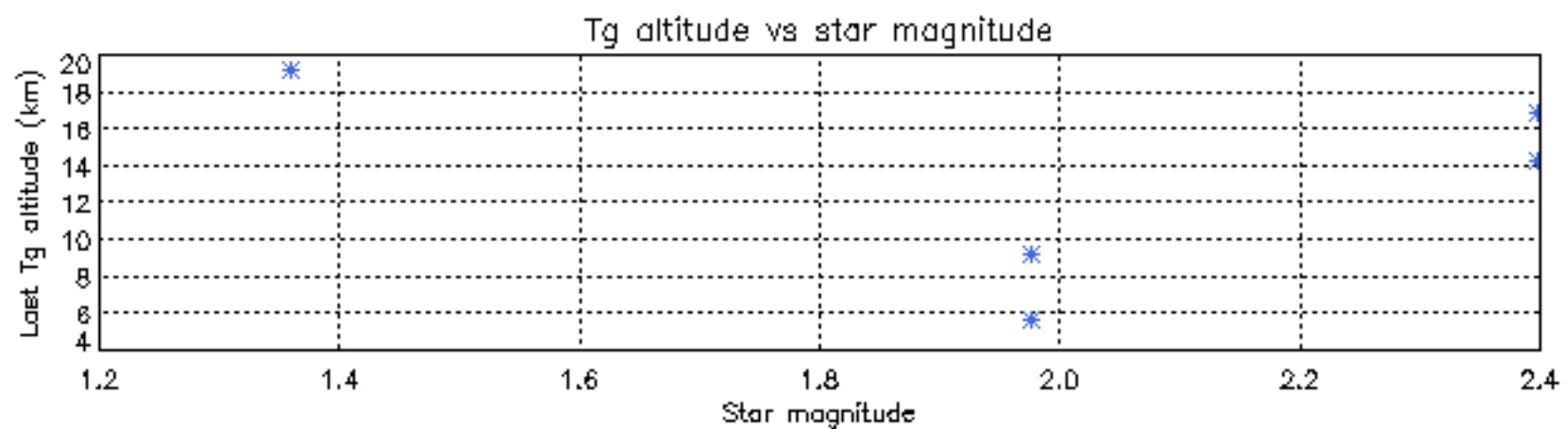
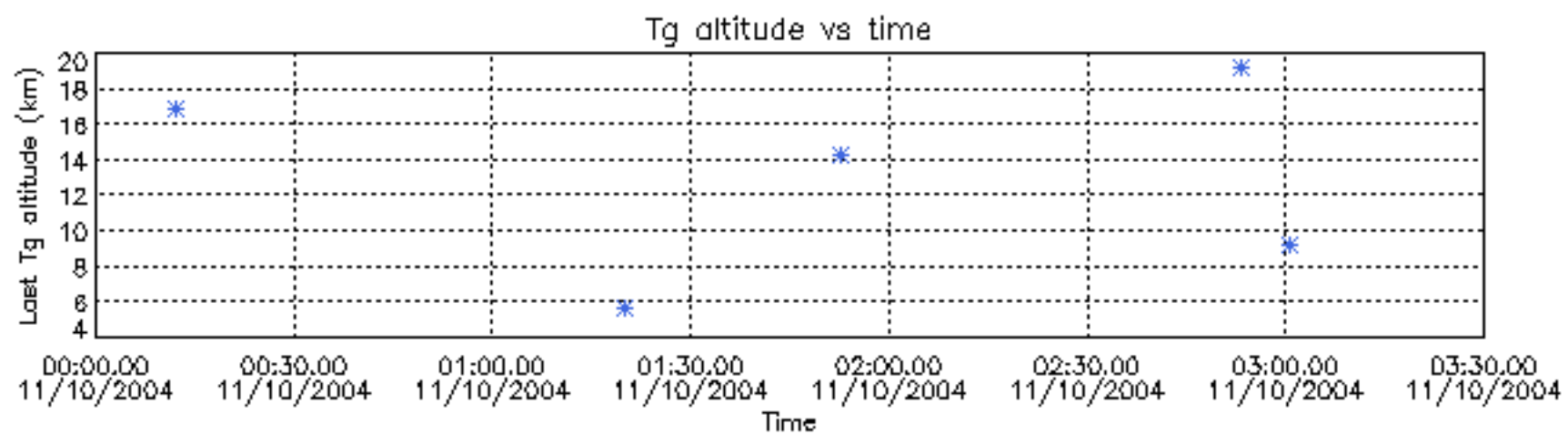
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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1; -862.4; 01-OCT-2004 01:32:21; Dark ; 72.5; 8; 10Alp CMi ; 0.40; 6500;occ; 145; 12;13526
 2; -448.3; 01-OCT-2004 01:39:15; Dark ; 54.0; 132; 15Rho Pup ; 2.80; 6900;occ; 108; 0;13526
 3; -295.0; 01-OCT-2004 01:41:49; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;13526
 4; -140.4; 01-OCT-2004 01:44:23; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;13526
 5; -37.9; 01-OCT-2004 01:46:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13526
 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
 11; 917.2; 01-OCT-2004 02:02:01; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;13527
 12; 1141.6; 01-OCT-2004 02:05:45; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;13527
 13; 1420.2; 01-OCT-2004 02:10:24; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;13527
 14; 1556.0; 01-OCT-2004 02:12:40; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;13527
 15; 1944.2; 01-OCT-2004 02:19:08; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;13527
 16; 2166.5; 01-OCT-2004 02:22:50; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;13527
 17; 2383.4; 01-OCT-2004 02:26:27; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;13527
 18; 2522.4; 01-OCT-2004 02:28:46; Bright; 65.5; 105; 6Bet Ari ; 2.64; 8900;occ; 131; 0;13527
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 20; 2947.1; 01-OCT-2004 02:35:51; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;13527
 21; 3027.7; 01-OCT-2004 02:37:11; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;13527
 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
 5; -1704.1; 01-OCT-2004 02:58:55; Bright; 94.0; 107; 37The Aur ; 2.65; 11000;occ; 188; 0;13527
 6; -1523.1; 01-OCT-2004 03:01:56; Bright; 59.5; 24; 66Alp Gem ; 1.58; 10200;occ; 119; 0;13527
 7; -1234.3; 01-OCT-2004 03:06:45; Dark ; 107.5; 170; 27Eps Gem ; 3.00; 9700;occ; 215; 0;13527
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 10; -293.8; 01-OCT-2004 03:22:26; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;13527
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 13; 172.8; 01-OCT-2004 03:30:12; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;13528
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 15; 603.4; 01-OCT-2004 03:37:23; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;13528
 16; 732.7; 01-OCT-2004 03:39:32; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13528
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 19; 1141.4; 01-OCT-2004 03:46:21; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;13528
 20; 1419.9; 01-OCT-2004 03:50:59; Dark ; 42.5; 18; 24Alp PsA ; 1.17; 9700;occ; 85; 0;13528
 21; 1555.6; 01-OCT-2004 03:53:15; Dark ; 52.0; 52; 16Bet Cet ; 2.04; 4500;occ; 104; 0;13528
 22; 1944.5; 01-OCT-2004 03:59:44; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;13528
 23; 2166.4; 01-OCT-2004 04:03:26; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;13528
 24; 2384.5; 01-OCT-2004 04:07:04; Bright; 36.5; 93; 53Bet Peg ; 2.52; 3100;occ; 73; 0;13528
 25; 2520.9; 01-OCT-2004 04:09:20; Bright; 64.0; 105; 6Bet Ari ; 2.64; 8900;occ; 128; 0;13528
 26; 2653.9; 01-OCT-2004 04:11:33; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;13528
 27; 2947.6; 01-OCT-2004 04:16:27; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;13528
 28; 3026.9; 01-OCT-2004 04:17:46; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13528
 29; 3262.7; 01-OCT-2004 04:21:42; Bright; 55.0; 160; 23Gam Per ; 2.93; 4700;occ; 110; 0;13528
 30; 3425.7; 01-OCT-2004 04:24:25; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13528
 31; 3552.0; 01-OCT-2004 04:26:32; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;13528

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 4; -1705.0; 01-OCT-2004 04:39:31; Bright; 90.5; 107; 37The Aur ; 2.65; 11000;occ; 181; 0;13528
 5; -1523.7; 01-OCT-2004 04:42:32; Bright; 59.0; 24; 66Alp Gem ; 1.58; 10200;occ; 118; 0;13528
 6; -1233.6; 01-OCT-2004 04:47:22; Dark ; 109.0; 170; 27Eps Gem ; 3.00; 9700;occ; 218; 0;13528
 7; -866.3; 01-OCT-2004 04:53:29; Dark ; 76.5; 8; 10Alp CMi ; 0.40; 6500;occ; 153; 0;13528
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 9; -293.5; 01-OCT-2004 05:03:02; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;13528
 10; -137.5; 01-OCT-2004 05:05:38; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;13528
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14; 603.4; 01-OCT-2004 05:17:59; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;13529
15; 733.3; 01-OCT-2004 05:20:09; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13529
16; 820.4; 01-OCT-2004 05:21:36; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;13529
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25; 2653.3; 01-OCT-2004 05:52:09; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;13529
26; 2948.0; 01-OCT-2004 05:57:04; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;13529
27; 3027.0; 01-OCT-2004 05:58:23; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13529
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29; 3426.7; 01-OCT-2004 06:05:02; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13529
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 3; 1142.5; 01-OCT-2004 20:32:22; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;13538
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 6; 1946.6; 01-OCT-2004 20:45:46; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;13538
 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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 9; 2508.1; 01-OCT-2004 20:55:07; Bright; 62.0; 105; 6Bet Ari ; 2.64; 8900;occ; 124; 0;13538
10; 2647.8; 01-OCT-2004 20:57:27; Bright; 47.0; 53; 43Bet And ; 2.05; 3300;occ; 94; 0;13538
11; 2946.2; 01-OCT-2004 21:02:25; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;13538
12; 3024.3; 01-OCT-2004 21:03:43; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;13538
13; 3253.1; 01-OCT-2004 21:07:32; Bright; 52.0; 160; 23Gam Per ; 2.93; 4700;occ; 104; 0;13538
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16; 3905.9; 01-OCT-2004 21:18:25; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;13538
17; 3996.3; 01-OCT-2004 21:19:55; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;13538
18; 4190.1; 01-OCT-2004 21:23:09; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;13538
19; 4327.2; 01-OCT-2004 21:25:26; Bright; 100.0; 107; 37The Aur ; 2.65; 11000;occ; 200; 0;13538
20; 4512.6; 01-OCT-2004 21:28:32; Bright; 63.0; 24; 66Alp Gem ; 1.58; 10200;occ; 126; 0;13538
21; 4811.6; 01-OCT-2004 21:33:31; Dark ; 106.0; 170; 27Eps Gem ; 3.00; 9700;occ; 212; 0;13538
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10; 737.0; 01-OCT-2004 22:06:12; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13539
11; 823.6; 01-OCT-2004 22:07:39; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;13539
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18; 2384.6; 01-OCT-2004 22:33:40; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;13539
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21; 2945.6; 01-OCT-2004 22:43:01; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;13539
22; 3023.5; 01-OCT-2004 22:44:19; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13539
23; 3252.2; 01-OCT-2004 22:48:07; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;13539
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25; 3554.3; 01-OCT-2004 22:53:09; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;13539

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27; 3995.6; 01-OCT-2004 23:00:31; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;13539
28; 4189.9; 01-OCT-2004 23:03:45; Bright; 35.0; 174; 52Psi UMA ; 3.00; 4400;occ; 70; 0;13539
29; 4326.7; 01-OCT-2004 23:06:02; Bright; 93.5; 107; 37The Aur ; 2.65; 11000;occ; 187; 0;13539
30; 4513.9; 01-OCT-2004 23:09:09; Bright; 60.0; 24; 66Alp Gem ; 1.58; 10200;occ; 120; 0;13539
31; 4812.7; 01-OCT-2004 23:14:08; Dark ; 107.0; 170; 27Eps Gem ; 3.00; 9700;occ; 214; 0;13539
32; 5180.2; 01-OCT-2004 23:20:15; Dark ; 75.5; 8; 10Alp CMI ; 0.40; 6500;occ; 151; 0;13539
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3;	-271.3;	05-OCT-2004	01:16:21;	Dark	;	47.0;	65;	Lam Vel	;	2.20;	4400;occ;	94;	0;	13583
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7;	398.3;	05-OCT-2004	01:27:31;	Dark	;	65.5;	108;	Alp Col	;	2.65;	15200;occ;	131;	0;	13584
8;	609.3;	05-OCT-2004	01:31:02;	Dark	;	41.0;	135;	Bet Hyi	;	2.82;	5800;occ;	82;	0;	13584
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16;	2170.0;	05-OCT-2004	01:57:03;	Bright;	39.5;	90;	54Alp Peg	;	2.49;	11000;occ;	79;	0;	13584	
17;	2383.9;	05-OCT-2004	02:00:36;	Bright;	41.5;	93;	53Bet Peg	;	2.52;	3100;occ;	83;	0;	13584	
18;	2618.7;	05-OCT-2004	02:04:31;	Bright;	49.0;	53;	43Bet And	;	2.05;	3300;occ;	98;	0;	13584	
19;	2786.6;	05-OCT-2004	02:07:19;	Bright;	55.0;	173;	4Bet Tri	;	3.00;	8900;occ;	110;	0;	13584	
20;	3209.3;	05-OCT-2004	02:14:22;	Bright;	52.0;	160;	23Gam Per	;	2.93;	4700;occ;	104;	0;	13584	
21;	3425.5;	05-OCT-2004	02:17:58;	Bright;	38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	13584	

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2;	-2034.6;	05-OCT-2004	07:29:22;	Bright;	35.5;	82;	48Bet UMA	;	2.37;	10600;occ;	71;	0;	13587	
3;	-1839.3;	05-OCT-2004	07:32:37;	Bright;	52.0;	174;	52Psi UMA	;	3.00;	4400;occ;	104;	0;	13587	
4;	-1730.1;	05-OCT-2004	07:34:26;	Bright;	106.0;	107;	37The Aur	;	2.65;	11000;occ;	212;	0;	13587	
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7;	-796.3;	05-OCT-2004	07:50:00;	Dark	;	84.5;	8;	10Alp CMI	;	0.40;	6500;occ;	169;	0;	13587
8;	-393.0;	05-OCT-2004	07:56:44;	Dark	;	51.5;	132;	15Rho Pup	;	2.80;	6900;occ;	103;	0;	13587
9;	-268.0;	05-OCT-2004	07:58:49;	Dark	;	46.0;	65;	Lam Vel	;	2.20;	4400;occ;	92;	0;	13587
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12;	220.3;	05-OCT-2004	08:06:57;	Dark	;	47.5;	2;	Alp Car	;	-0.74;	7000;occ;	95;	0;	13588
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14;	609.9;	05-OCT-2004	08:13:26;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	13588
15;	755.2;	05-OCT-2004	08:15:52;	Dark	;	40.0;	143;	Alp Hyi	;	2.86;	7200;occ;	80;	0;	13588
16;	842.7;	05-OCT-2004	08:17:19;	Dark	;	46.5;	9;	Alp Eri	;	0.45;	24000;occ;	93;	0;	13588
17;	958.9;	05-OCT-2004	08:19:15;	Dark	;	52.0;	157;	The1Eri	;	2.91;	9300;occ;	104;	0;	13588
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19;	1430.3;	05-OCT-2004	08:27:07;	Dark	;	44.5;	18;	24Alp PsA	;	1.17;	9700;occ;	89;	0;	13588
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3;	-3864.0;	05-OCT-2004	08:39:28;	Bright;	36.5;	90;	54Alp Peg	;	2.49;	11000;occ;	73;	0;	13588	
4;	-3648.7;	05-OCT-2004	08:43:04;	Bright;	36.5;	93;	53Bet Peg	;	2.52;	3100;occ;	73;	0;	13588	
5;	-3419.1;	05-OCT-2004	08:46:53;	Bright;	48.5;	53;	43Bet And	;	2.05;	3300;occ;	97;	0;	13588	
6;	-3254.1;	05-OCT-2004	08:49:38;	Bright;	55.5;	173;	4Bet Tri	;	3.00;	8900;occ;	111;	0;	13588	
7;	-3114.5;	05-OCT-2004	08:51:58;	Bright;	40.5;	68;	18Alp Cas	;	2.22;	4500;occ;	81;	0;	13588	
8;	-3023.2;	05-OCT-2004	08:53:29;	Bright;	38.0;	89;	5Alp Cep	;	2.45;	8000;occ;	76;	0;	13588	
9;	-2830.8;	05-OCT-2004	08:56:42;	Bright;	49.5;	160;	23Gam Per	;	2.93;	4700;occ;	99;	0;	13588	
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12;	-2125.6;	05-OCT-2004	09:08:27;	Bright;	37.0;	36;	50Alp UMA	;	1.80;	6300;occ;	74;	0;	13588	
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19;	-392.0;	05-OCT-2004	09:37:20;	Dark	;	53.0;	132;	15Rho Pup	;	2.80;	6900;occ;	106;	0;	13588
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28; 958.9; 05-OCT-2004 09:59:51; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13589
29; 1157.9; 05-OCT-2004 10:03:10; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;13589
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17;-1512.6; 05-OCT-2004 14:20:28; Bright; 66.5; 24; 66Alp Gem ; 1.58; 10200;occ; 133; 0;13591
18;-1160.5; 05-OCT-2004 14:26:20; Dark ; 152.0; 170; 27Eps Gem ; 3.00; 9700;occ; 304; 0;13591
19; -789.8; 05-OCT-2004 14:32:30; Dark ; 91.5; 8; 10Alp CMi ; 0.40; 6500;occ; 183; 0;13591
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23; 12.4; 05-OCT-2004 14:45:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13592
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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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4;	209.3;	20-OCT-2004	22:00:20;	Dark	;	65.5;	117;	Pi Pup	;	2.71;	3800;occ;	131;	0;	13811
5;	398.7;	20-OCT-2004	22:03:30;	Dark	;	50.5;	2;	Alp Car	;	-0.74;	7000;occ;	101;	0;	13811
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8;	1203.7;	20-OCT-2004	22:16:55;	Dark	;	42.0;	84;	Alp Phe	;	2.40;	4500;occ;	84;	0;	13811
9;	1594.3;	20-OCT-2004	22:23:25;	Dark	;	47.5;	52;	16Bet Cet	;	2.04;	4500;occ;	95;	0;	13811
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13;	2531.0;	20-OCT-2004	22:39:02;	Bright;	;	40.5;	53;	43Bet And	;	2.05;	3300;occ;	81;	0;	13811
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21;	4012.2;	20-OCT-2004	23:03:43;	Bright;	;	37.0;	82;	48Bet UMa	;	2.37;	10600;occ;	74;	0;	13811
22;	4221.1;	20-OCT-2004	23:07:12;	Bright;	;	38.0;	174;	52Psi UMa	;	3.00;	4400;occ;	76;	0;	13811
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13;	2530.6;	21-OCT-2004	00:19:37;	Bright;	;	42.5;	53;	43Bet And	;	2.05;	3300;occ;	85;	0;	13812
14;	2718.6;	21-OCT-2004	00:22:45;	Bright;	;	45.5;	73;	57Gam1And	;	2.26;	13100;occ;	91;	0;	13812
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17;	3082.3;	21-OCT-2004	00:28:49;	Bright;	;	39.0;	89;	5Alp Cep	;	2.45;	8000;occ;	78;	0;	13812
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22;	4221.2;	21-OCT-2004	00:47:48;	Bright;	;	37.5;	174;	52Psi UMa	;	3.00;	4400;occ;	75;	0;	13812
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17; 1211.7; 24-OCT-2004 05:05:11; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;13858

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 21; 2523.1; 24-OCT-2004 05:27:03; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;13858
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 23; 2868.8; 24-OCT-2004 05:32:48; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;13858
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 26; 4224.6; 25-OCT-2004 00:21:59; Bright; 43.5; 174; 52Psi UMa ; 3.00; 4400;occ; 87; 0;13869
 27; 4672.0; 25-OCT-2004 00:29:27; Bright; 51.5; 166; 17Eps Leo ; 2.98; 6000;occ; 103; 0;13869
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 28; 4687.0; 27-OCT-2004 22:54:51; Bright; 53.0; 166; 17Eps Leo ; 2.98; 6000;occ; 106; 0;13911
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27; 4687.4; 28-OCT-2004 00:35:27; Bright; 54.0; 166; 17Eps Leo ; 2.98; 6000;occ; 108; 0;13912
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