

GOMOS Daily Report 28-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	01OCT2004 05:07:36
Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-3D (28SEP2004 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-3D (29SEP2004 00:00:00)

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

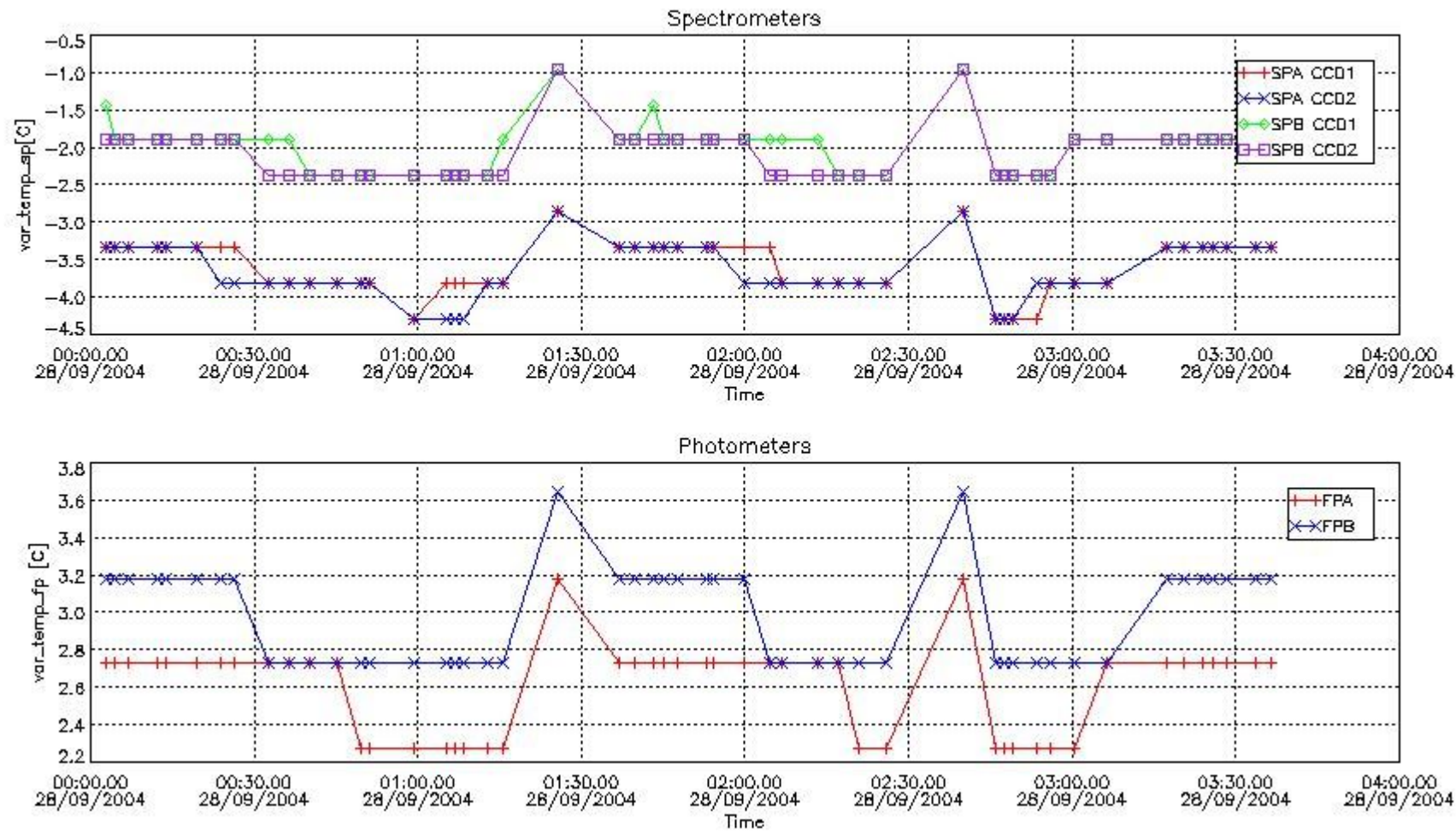
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040928_000242_000000592030_00403_13483_0003.N1	28-SEP-2004 00:02:42	Dark	59.000	2	Alp Car	-0.73600	7000.0	118	13483	No
GOM_TRA_1PNPDE20040928_000427_000000622030_00403_13483_0004.N1	28-SEP-2004 00:04:27	Dark	62.000	108	Alp Col	2.6520	15200.	124	13483	No
GOM_TRA_1PNPDE20040928_000652_000001302030_00403_13483_0005.N1	28-SEP-2004 00:06:52	Dark	130.00	101	11Alp Lep	2.5820	7000.0	260	13483	No
GOM_TRA_1PNPDE20040928_001216_000000442030_00403_13483_0006.N1	28-SEP-2004 00:12:16	Dark	43.500	143	Alp Hyi	2.8570	7200.0	87	13483	No
GOM_TRA_1PNPDE20040928_001344_000000522030_00403_13483_0007.N1	28-SEP-2004 00:13:44	Dark	51.500	9	Alp Eri	0.45300	24000.	103	13483	No
GOM_TRA_1PNPDE20040928_001918_000000482030_00403_13483_0008.N1	28-SEP-2004 00:19:18	Twilight	48.000	63	Bet Gru	2.1500	2800.0	96	13483	No
GOM_TRA_1PNPDE20040928_002353_000000462030_00403_13483_0009.N1	28-SEP-2004 00:23:53	Bright	45.500	18	24Alp PsA	1.1660	9700.0	91	13483	No
GOM_TRA_1PNPDE20040928_002611_000000532030_00403_13483_0010.N1	28-SEP-2004 00:26:11	Bright	53.000	52	16Bet Cet	2.0370	4500.0	106	13483	No
GOM_TRA_1PNPDE20040928_003235_000000392030_00403_13483_0011.N1	28-SEP-2004 00:32:35	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	13483	No
GOM_TRA_1PNPDE20040928_003626_000000402030_00403_13483_0012.N1	28-SEP-2004 00:36:26	Bright	40.000	90	54Alp Peg	2.4870	11000.	80	13483	No
GOM_TRA_1PNPDE20040928_004006_000000382030_00403_13483_0013.N1	28-SEP-2004 00:40:06	Bright	37.500	93	53Bet Peg	2.5200	3100.0	75	13483	No
GOM_TRA_1PNPDE20040928_004510_000000502030_00403_13483_0014.N1	28-SEP-2004 00:45:10	Bright	49.500	53	43Bet And	2.0480	3300.0	99	13483	No
GOM_TRA_1PNPDE20040928_004941_000000422030_00403_13483_0015.N1	28-SEP-2004 00:49:41	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	13483	No
GOM_TRA_1PNPDE20040928_005107_000000432030_00403_13483_0016.N1	28-SEP-2004 00:51:07	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	13483	No
GOM_TRA_1PNPDE20040928_005920_000000382030_00403_13483_0017.N1	28-SEP-2004 00:59:20	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	13483	No
GOM_TRA_1PNPDE20040928_010520_000000372030_00403_13483_0018.N1	28-SEP-2004 01:05:20	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	13483	No
GOM_TRA_1PNPDE20040928_010648_000000412030_00403_13483_0019.N1	28-SEP-2004 01:06:48	Bright	40.500	82	48Bet UMa	2.3650	10600.	81	13483	No
GOM_TRA_1PNPDE20040928_010831_000000702030_00403_13483_0020.N1	28-SEP-2004 01:08:31	Bright	70.000	42	34Bet Aur	1.9000	10200.	140	13483	No
GOM_TRA_1PNPDE20040928_011247_000000852030_00403_13483_0021.N1	28-SEP-2004 01:12:47	Bright	84.500	107	37The Aur	2.6490	11000.	169	13483	No
GOM_TRA_1PNPDE20040928_011527_000000572030_00403_13483_0022.N1	28-SEP-2004 01:15:27	Bright	57.000	24	66Alp Gem	1.5800	10200.	114	13483	No
GOM_TRA_1PNPDE20040928_012547_000000712030_00403_13483_0000.N1	28-SEP-2004 01:25:47	Twilight	70.500	8	10Alp CMi	0.40000	6500.0	141	13483	Yes
GOM_TRA_1PNPDE20040928_013650_000000882030_00403_13483_0001.N1	28-SEP-2004 01:36:50	Dark	88.000	1	9Alp CMa	-1.4400	11000.	176	13483	No
GOM_TRA_1PNPDE20040928_013944_000000392030_00403_13483_0002.N1	28-SEP-2004 01:39:44	Dark	39.000	71	lot Car	2.2460	7700.0	78	13483	No
GOM_TRA_1PNPDE20040928_014318_000000592030_00404_13484_0003.N1	28-SEP-2004 01:43:18	Dark	59.000	2	Alp Car	-0.73600	7000.0	118	13484	No
GOM_TRA_1PNPDE20040928_014505_000000632030_00404_13484_0004.N1	28-SEP-2004 01:45:05	Dark	62.500	108	Alp Col	2.6520	15200.	125	13484	No
GOM_TRA_1PNPDE20040928_014731_000001282030_00404_13484_0005.N1	28-SEP-2004 01:47:31	Dark	127.50	101	11Alp Lep	2.5820	7000.0	255	13484	No
GOM_TRA_1PNPDE20040928_015252_000000432030_00404_13484_0006.N1	28-SEP-2004 01:52:52	Dark	43.000	143	Alp Hyi	2.8570	7200.0	86	13484	No
GOM_TRA_1PNPDE20040928_015420_000000482030_00404_13484_0007.N1	28-SEP-2004 01:54:20	Dark	48.000	9	Alp Eri	0.45300	24000.	96	13484	No
GOM_TRA_1PNPDE20040928_015954_000000442030_00404_13484_0008.N1	28-SEP-2004 01:59:54	Twilight	43.500	63	Bet Gru	2.1500	2800.0	87	13484	No
GOM_TRA_1PNPDE20040928_020428_000000482030_00404_13484_0009.N1	28-SEP-2004 02:04:28	Bright	48.000	18	24Alp PsA	1.1660	9700.0	96	13484	No
GOM_TRA_1PNPDE20040928_020648_000000502030_00404_13484_0010.N1	28-SEP-2004 02:06:48	Bright	49.500	52	16Bet Cet	2.0370	4500.0	99	13484	No
GOM_TRA_1PNPDE20040928_021311_000000402030_00404_13484_0011.N1	28-SEP-2004 02:13:11	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	13484	No
GOM_TRA_1PNPDE20040928_021700_000000422030_00404_13484_0012.N1	28-SEP-2004 02:17:00	Bright	41.500	90	54Alp Peg	2.4870	11000.	83	13484	No
GOM_TRA_1PNPDE20040928_022042_000000392030_00404_13484_0013.N1	28-SEP-2004 02:20:42	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	13484	No
GOM_TRA_1PNPDE20040928_022545_000000512030_00404_13484_0014.N1	28-SEP-2004 02:25:45	Bright	50.500	53	43Bet And	2.0480	3300.0	101	13484	No
GOM_TRA_1PNPDE20040928_023957_000000392030_00404_13484_0000.N1	28-SEP-2004 02:39:57	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	13484	No
GOM_TRA_1PNPDE20040928_024556_000000402030_00404_13484_0001.N1	28-SEP-2004 02:45:56	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	13484	No
GOM_TRA_1PNPDE20040928_024724_000000522030_00404_13484_0002.N1	28-SEP-2004 02:47:24	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	13484	No
GOM_TRA_1PNPDE20040928_024907_000000672030_00404_13484_0003.N1	28-SEP-2004 02:49:07	Bright	66.500	42	34Bet Aur	1.9000	10200.	133	13484	No
GOM_TRA_1PNPDE20040928_025323_000000852030_00404_13484_0004.N1	28-SEP-2004 02:53:23	Bright	84.500	107	37The Aur	2.6490	11000.	169	13484	No
GOM_TRA_1PNPDE20040928_025603_000000572030_00404_13484_0005.N1	28-SEP-2004 02:56:03	Bright	57.000	24	66Alp Gem	1.5800	10200.	114	13484	No
GOM_TRA_1PNPDE20040928_030024_000000912030_00404_13484_0006.N1	28-SEP-2004 03:00:24	Twilight	91.000	170	27Eps Gem	3.0000	9700.0	182	13484	No
GOM_TRA_1PNPDE20040928_030624_000000752030_00404_13484_0007.N1	28-SEP-2004 03:06:24	Twilight	74.500	8	10Alp CMi	0.40000	6500.0	149	13484	No
GOM_TRA_1PNPDE20040928_031728_000000752030_00404_13484_0008.N1	28-SEP-2004 03:17:28	Dark	75.000	1	9Alp CMa	-1.4400	11000.	150	13484	No
GOM_TRA_1PNPDE20040928_032021_000000402030_00404_13484_0009.N1	28-SEP-2004 03:20:21	Dark	40.000	71	lot Car	2.2460	7700.0	80	13484	No
GOM_TRA_1PNPDE20040928_032355_000000492030_00405_13485_0010.N1	28-SEP-2004 03:23:55	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	13485	No
GOM_TRA_1PNPDE20040928_032542_000000612030_00405_13485_0011.N1	28-SEP-2004 03:25:42	Dark	60.500	108	Alp Col	2.6520	15200.	121	13485	No
GOM_TRA_1PNPDE20040928_032809_000001262030_00405_13485_0012.N1	28-SEP-2004 03:28:09	Dark	125.50	101	11Alp Lep	2.5820	7000.0	251	13485	No
GOM_TRA_1PNPDE20040928_033329_000000412030_00405_13485_0013.N1	28-SEP-2004 03:33:29	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	13485	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).

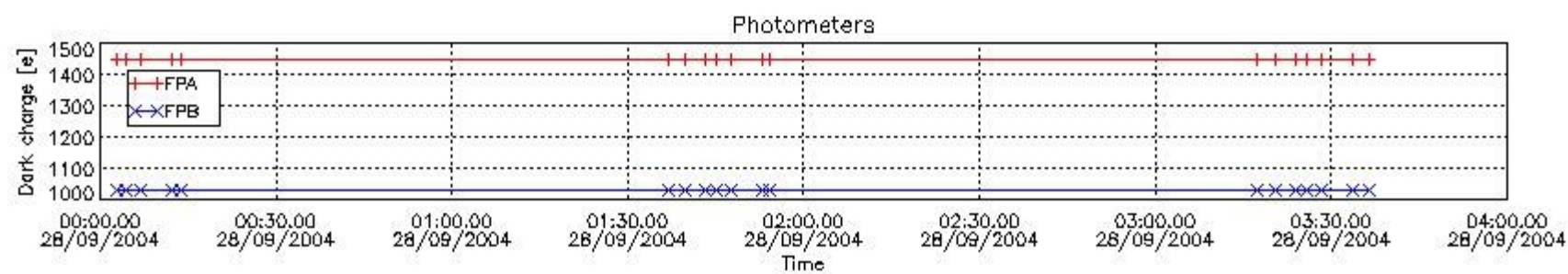
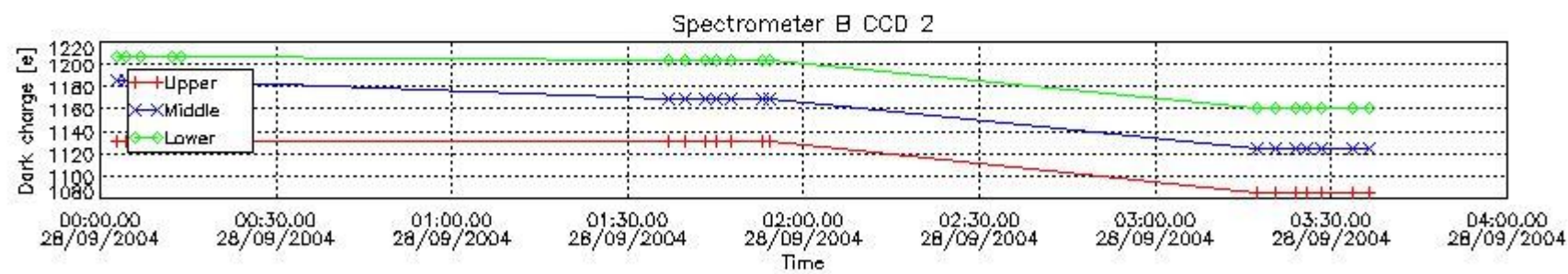
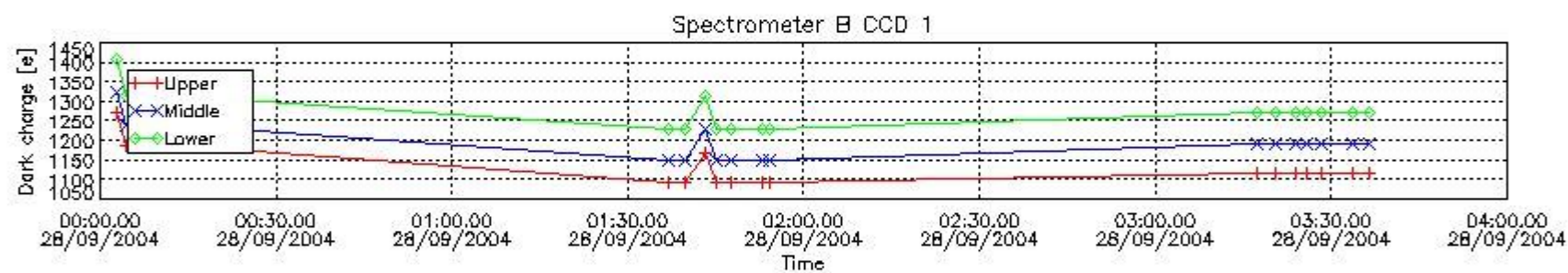
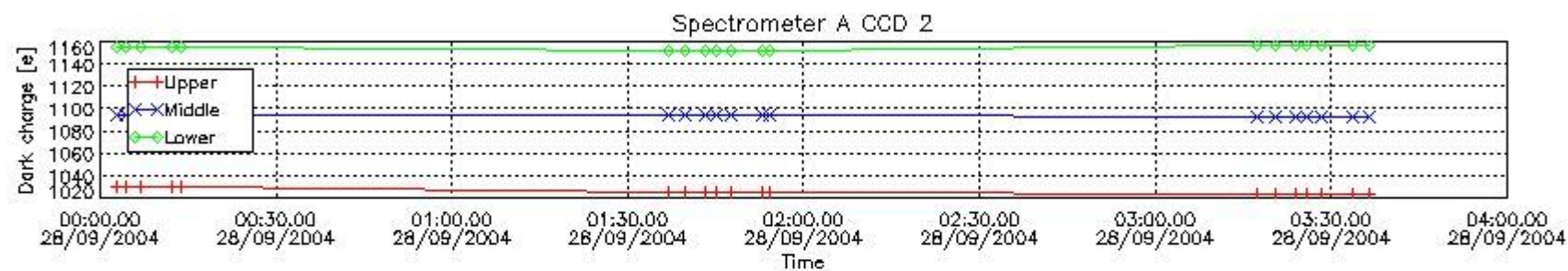
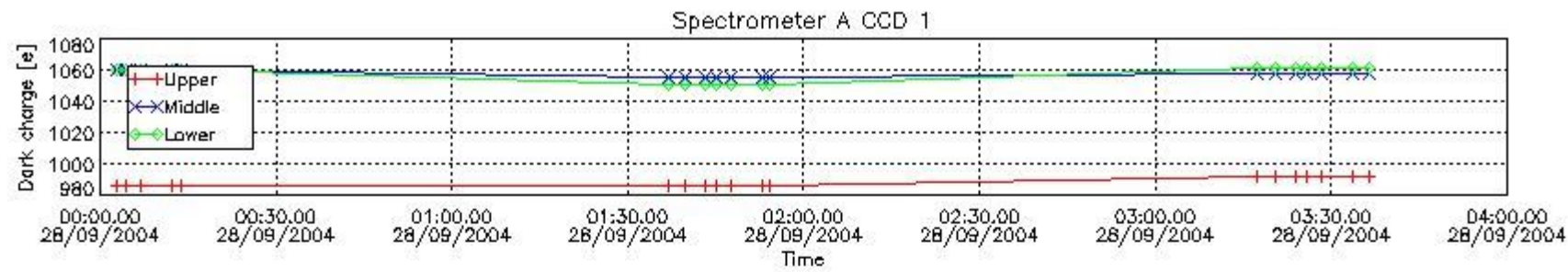
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20040928_023957_000000392030_00404_13484_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20040928_024556_000000402030_00404_13484_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040928_024724_000000522030_00404_13484_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040928_024907_000000672030_00404_13484_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040928_025323_000000852030_00404_13484_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040928_025603_000000572030_00404_13484_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20040928_030024_000000912030_00404_13484_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20040928_030624_000000752030_00404_13484_0007.N1	DC map used (0)
GOM_TRA_1PNPDE20040928_031728_000000752030_00404_13484_0008.N1	DC map used (0)

GOM_TRA_1PNPDE20040928_032021_000000402030_00404_13484_0009.N1	DC map used (0)
GOM_TRA_1PNPDE20040928_032355_000000492030_00405_13485_0010.N1	DC map used (0)
GOM_TRA_1PNPDE20040928_032542_000000612030_00405_13485_0011.N1	DC map used (0)
GOM_TRA_1PNPDE20040928_032809_000001262030_00405_13485_0012.N1	DC map used (0)
GOM_TRA_1PNPDE20040928_033329_000000412030_00405_13485_0013.N1	DC map used (0)
GOM_TRA_1PNPDE20040928_033618_000000542030_00405_13485_0014.N1	DC map used (0)

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



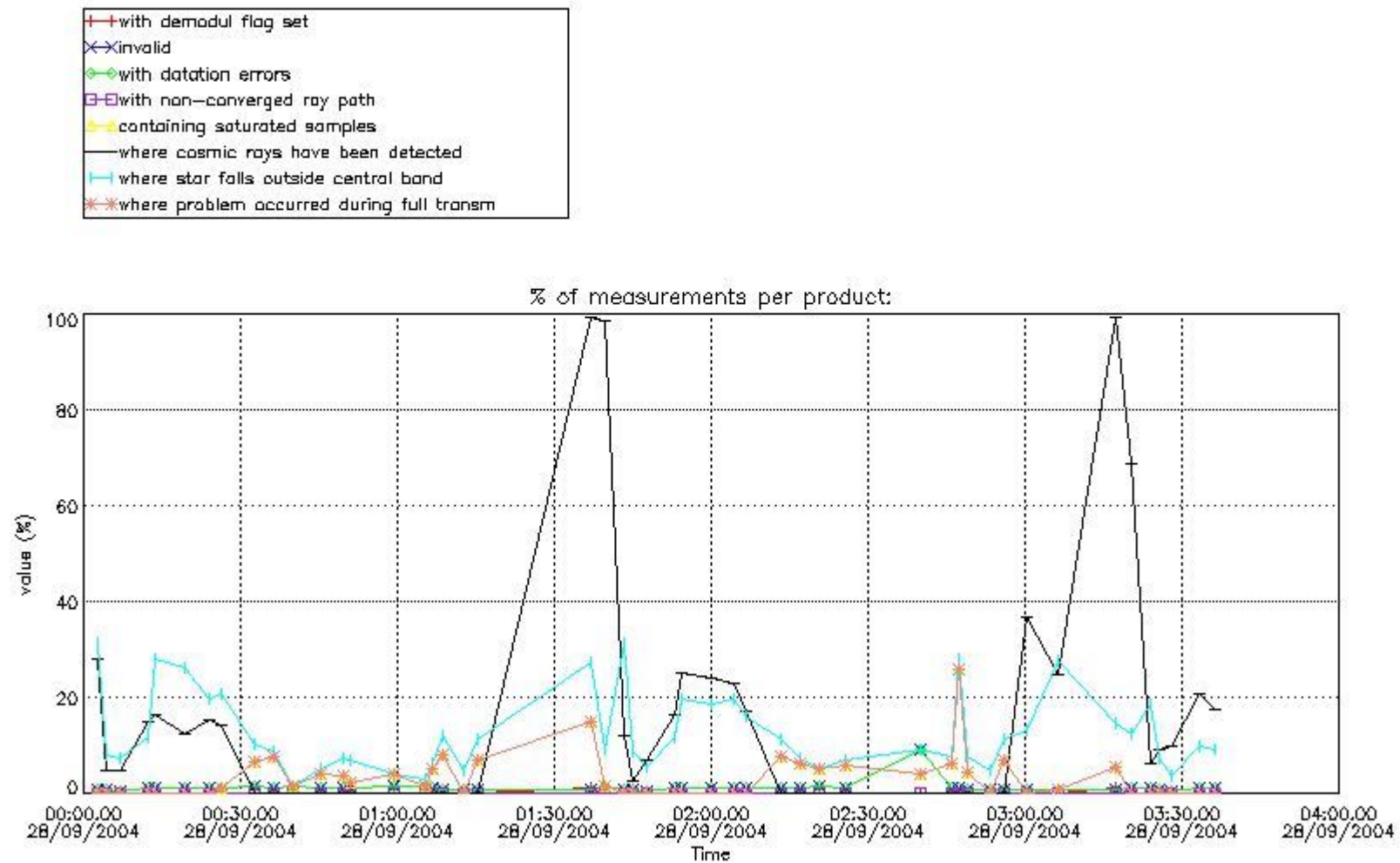
5. Demodulation flag and quality information monitoring

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.

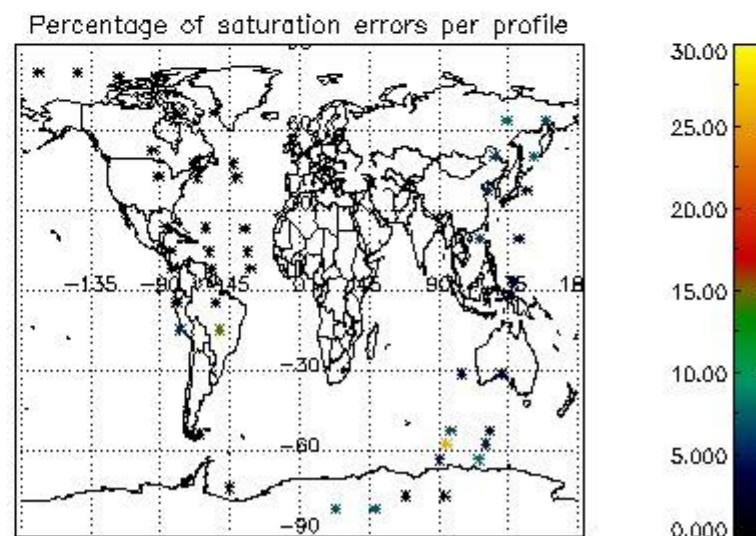
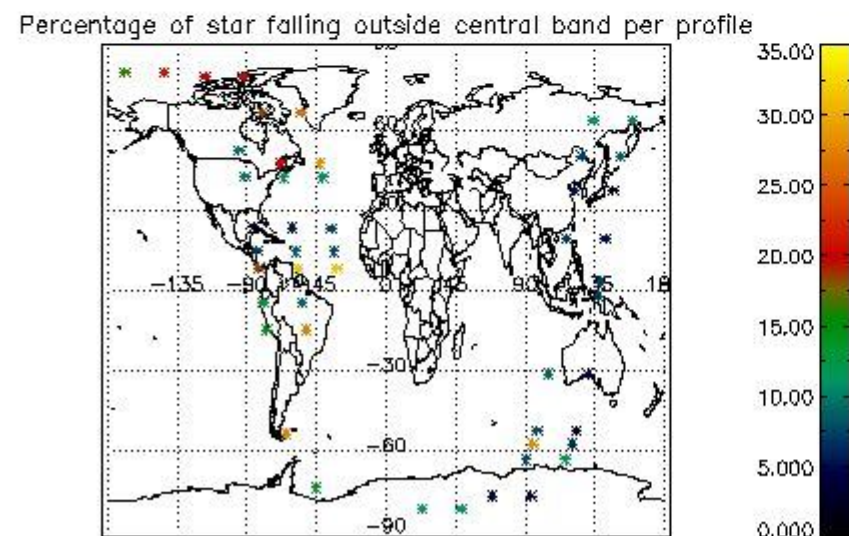
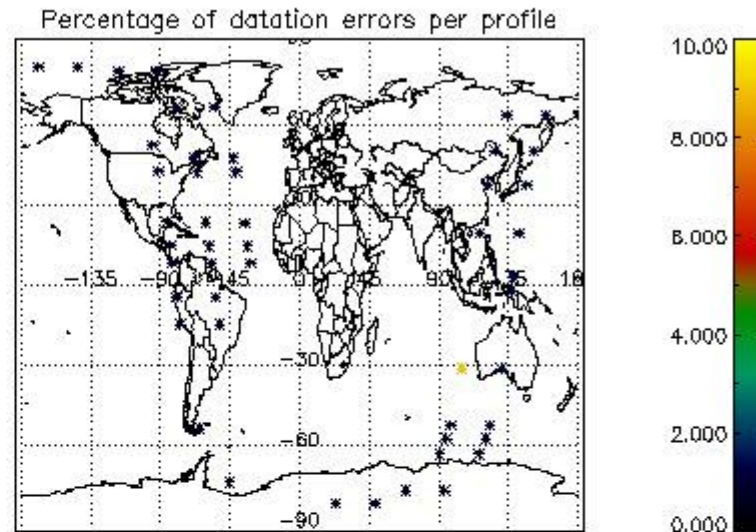
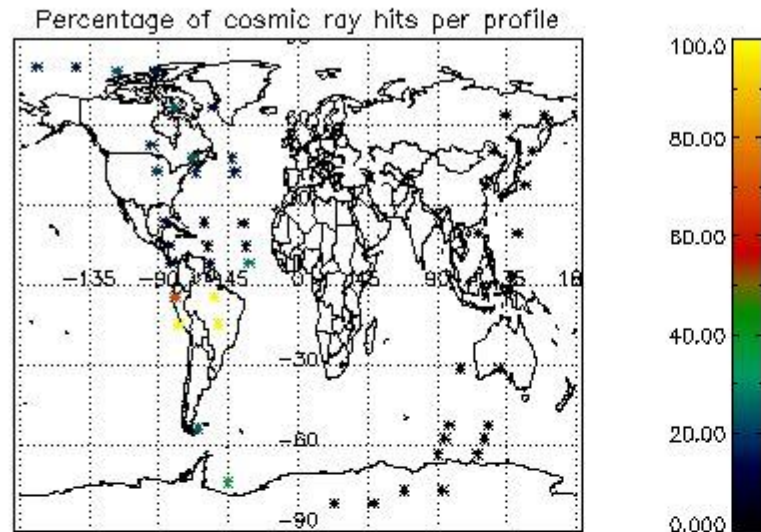
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	8.16327 %
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)



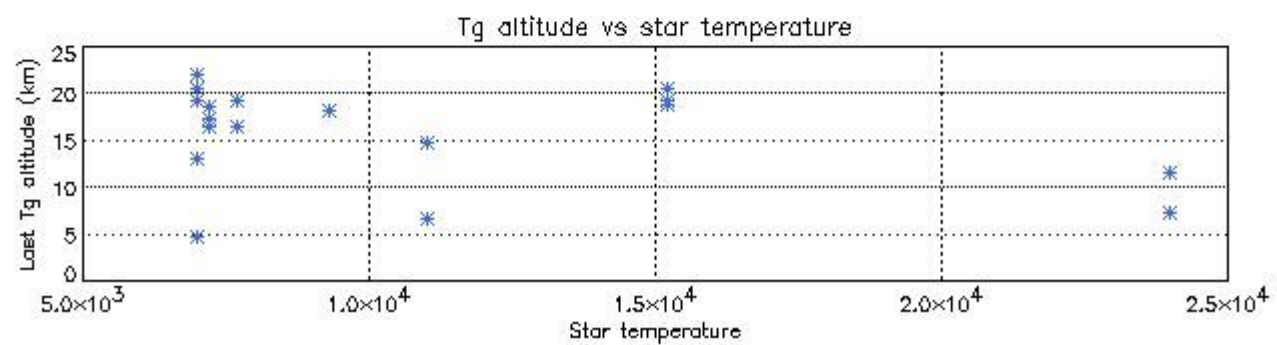
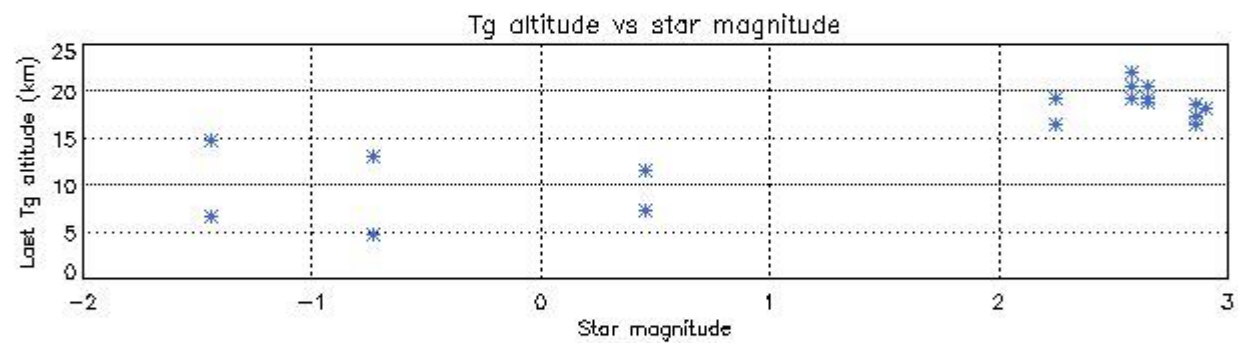
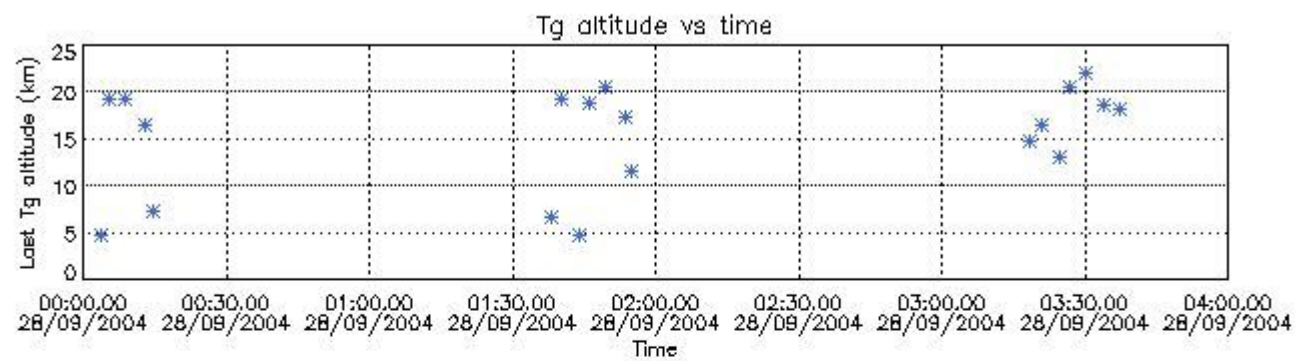
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.199	17.943	10.714
St. deviation:	5.6250	4.2281	3.5278
Maximum:	22.048	23.809	14.729
Minimum:	4.6629	6.8875	7.4468
Number of data:	19.000	26.000	4.0000

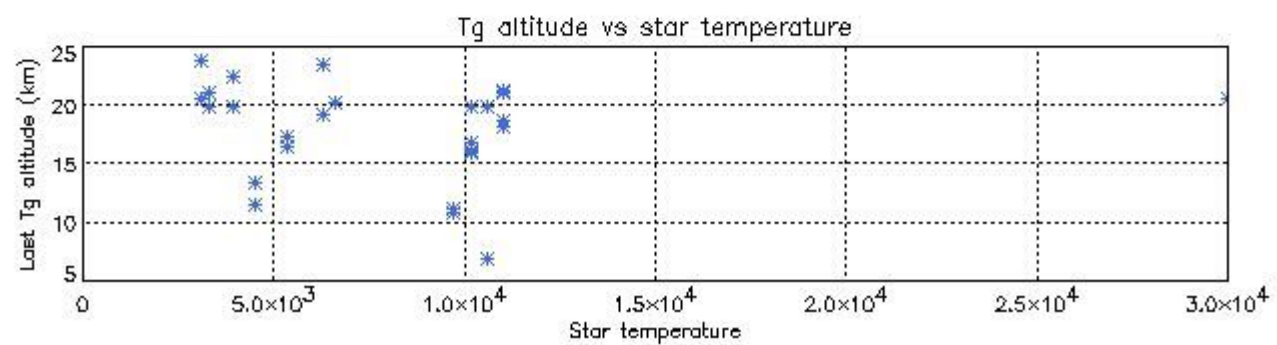
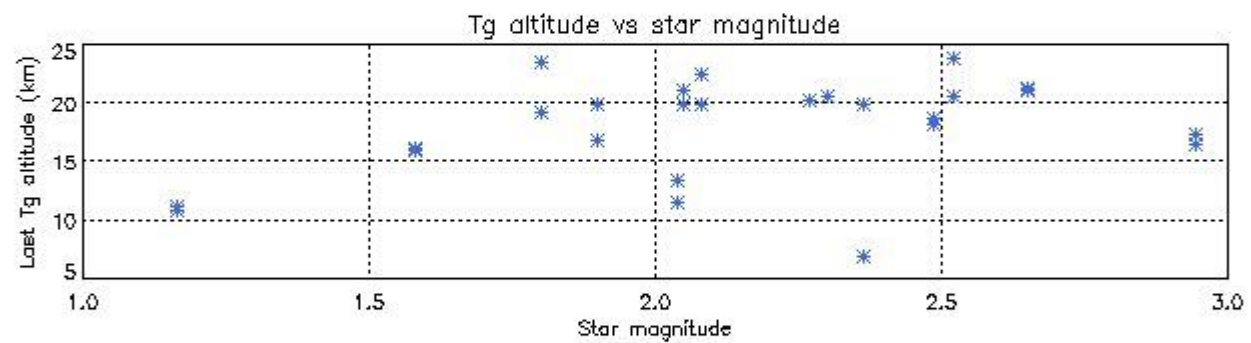
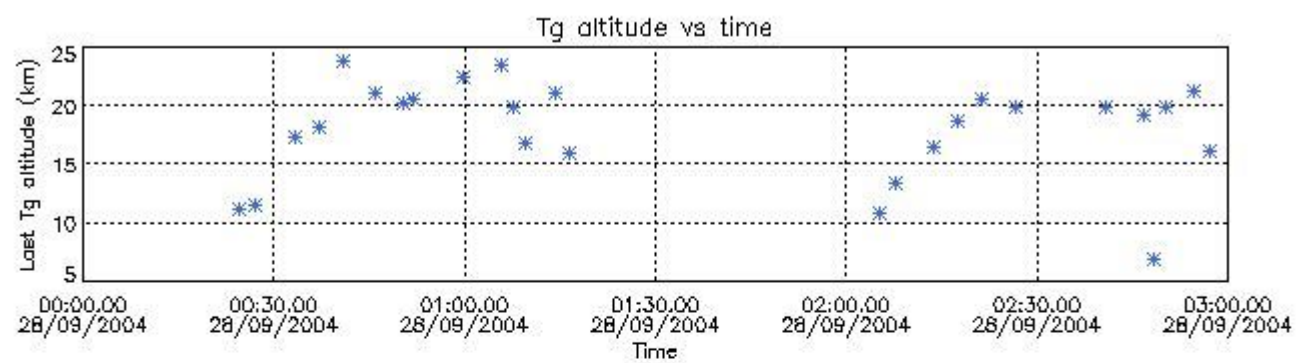
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



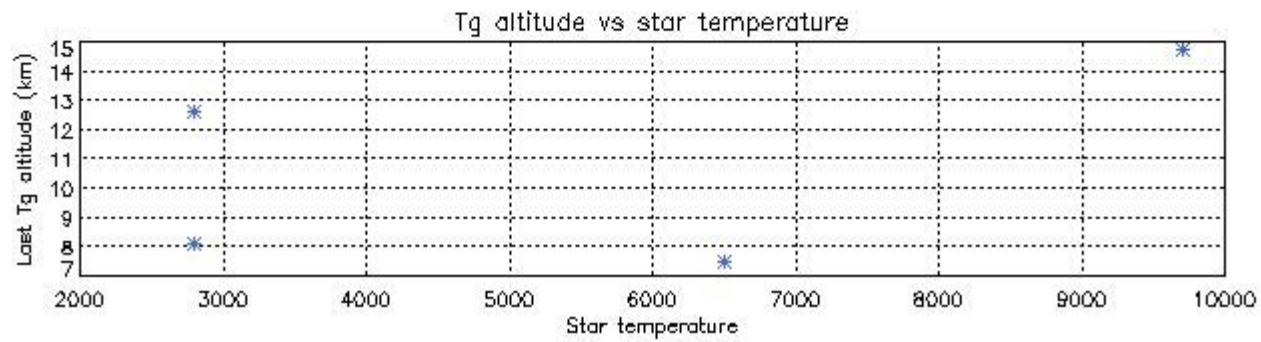
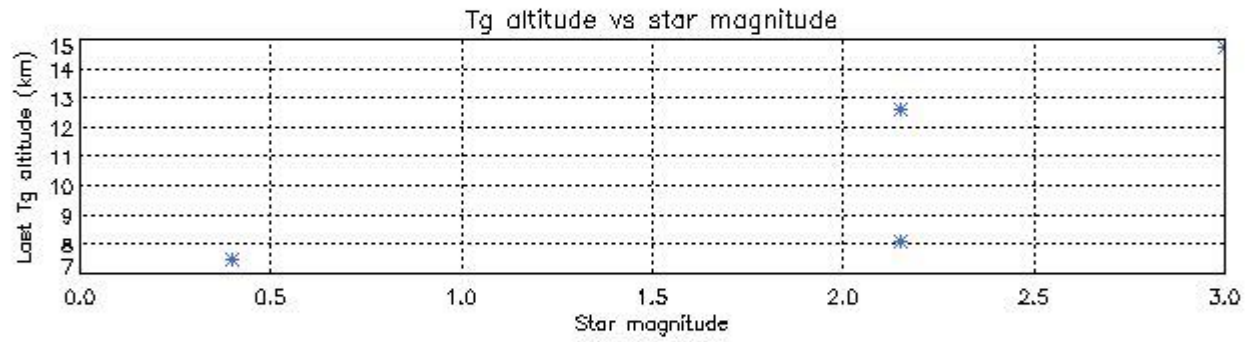
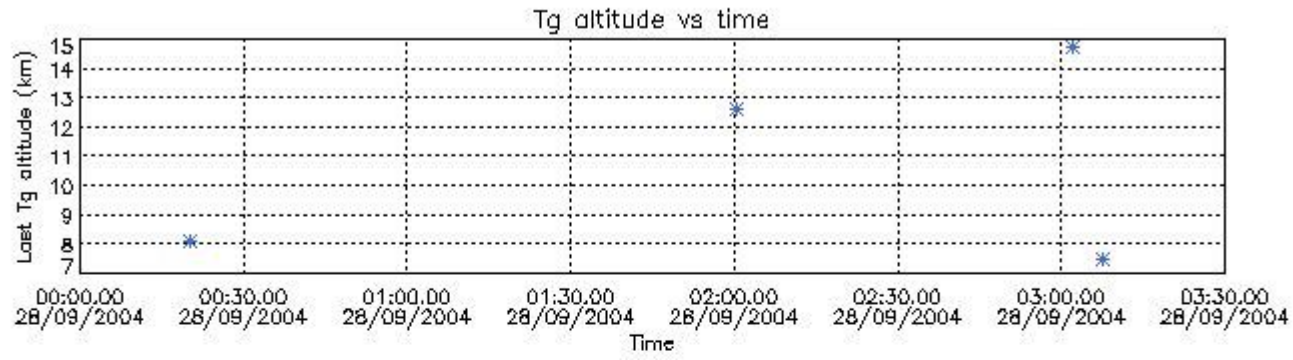
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

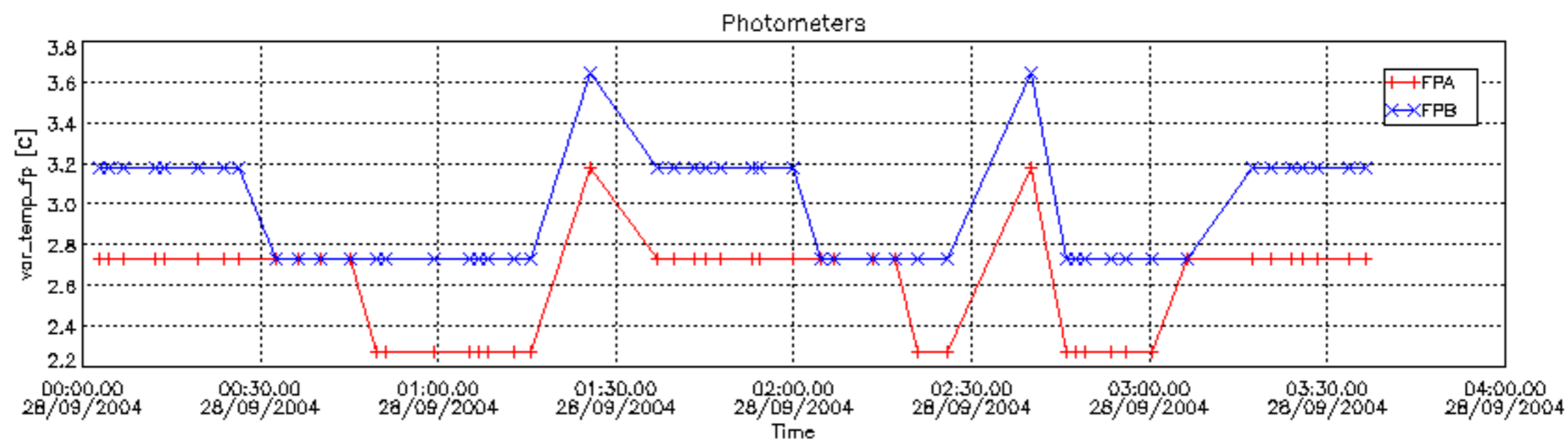
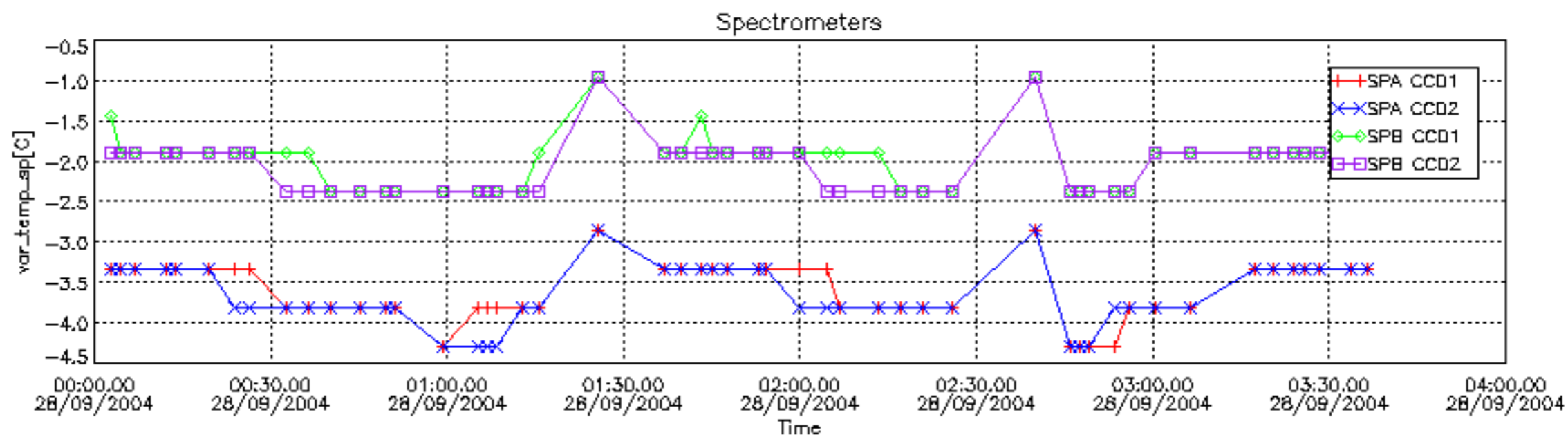
Tangent altitude at which the star is lost

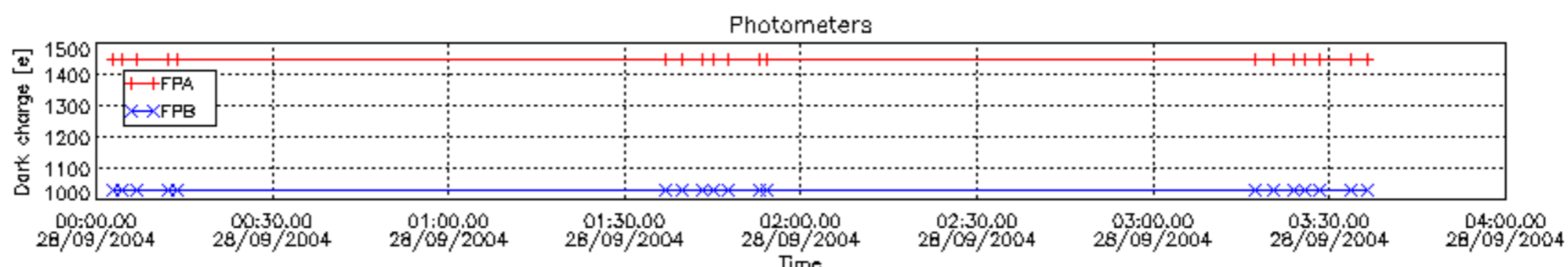
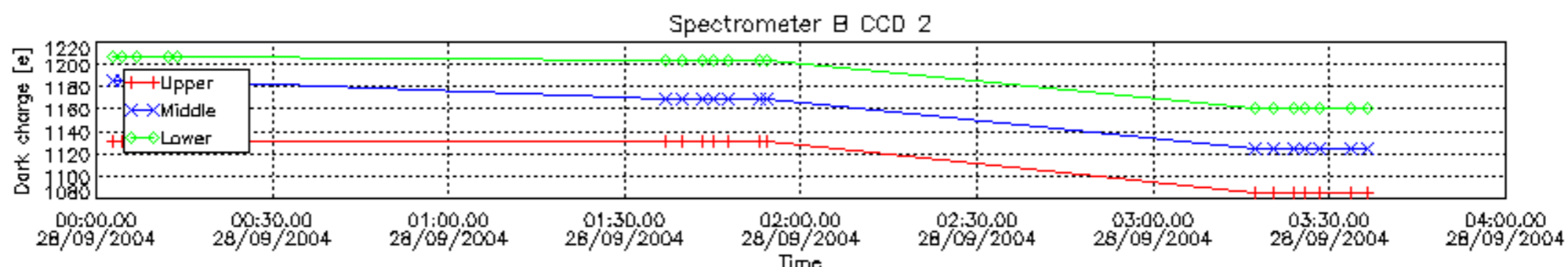
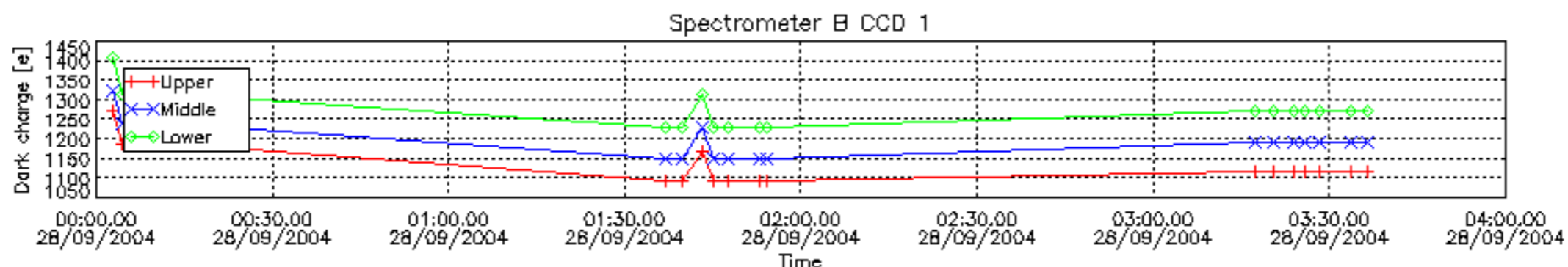
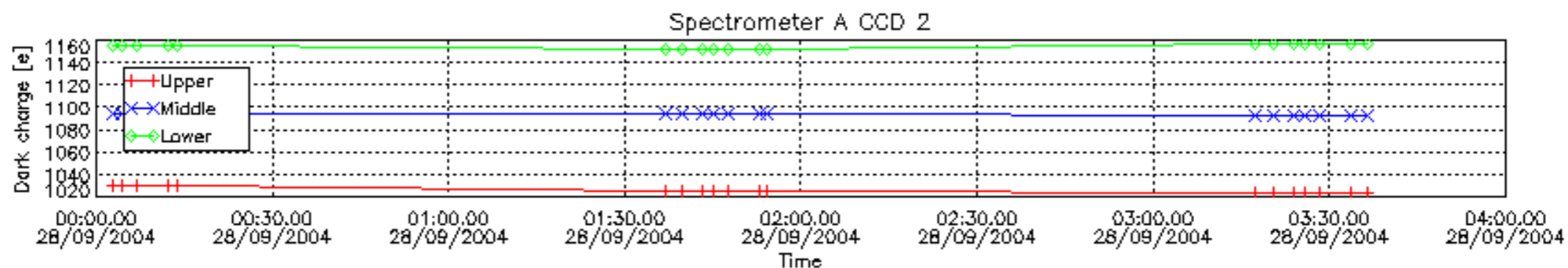
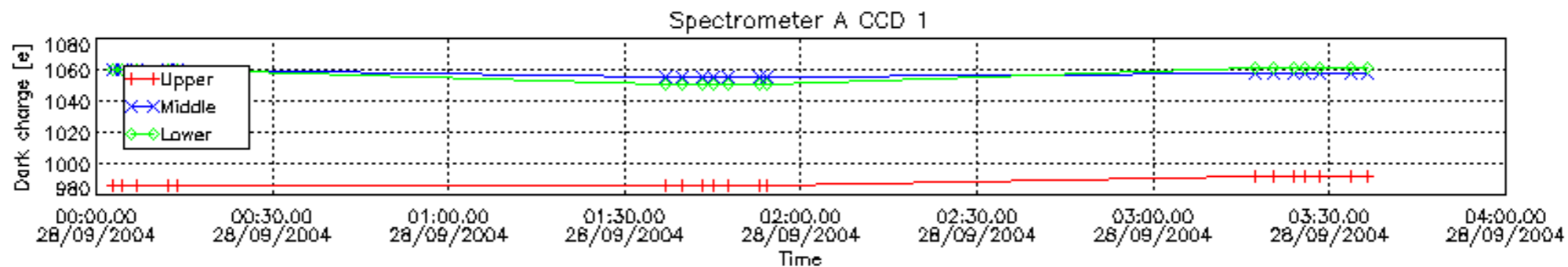


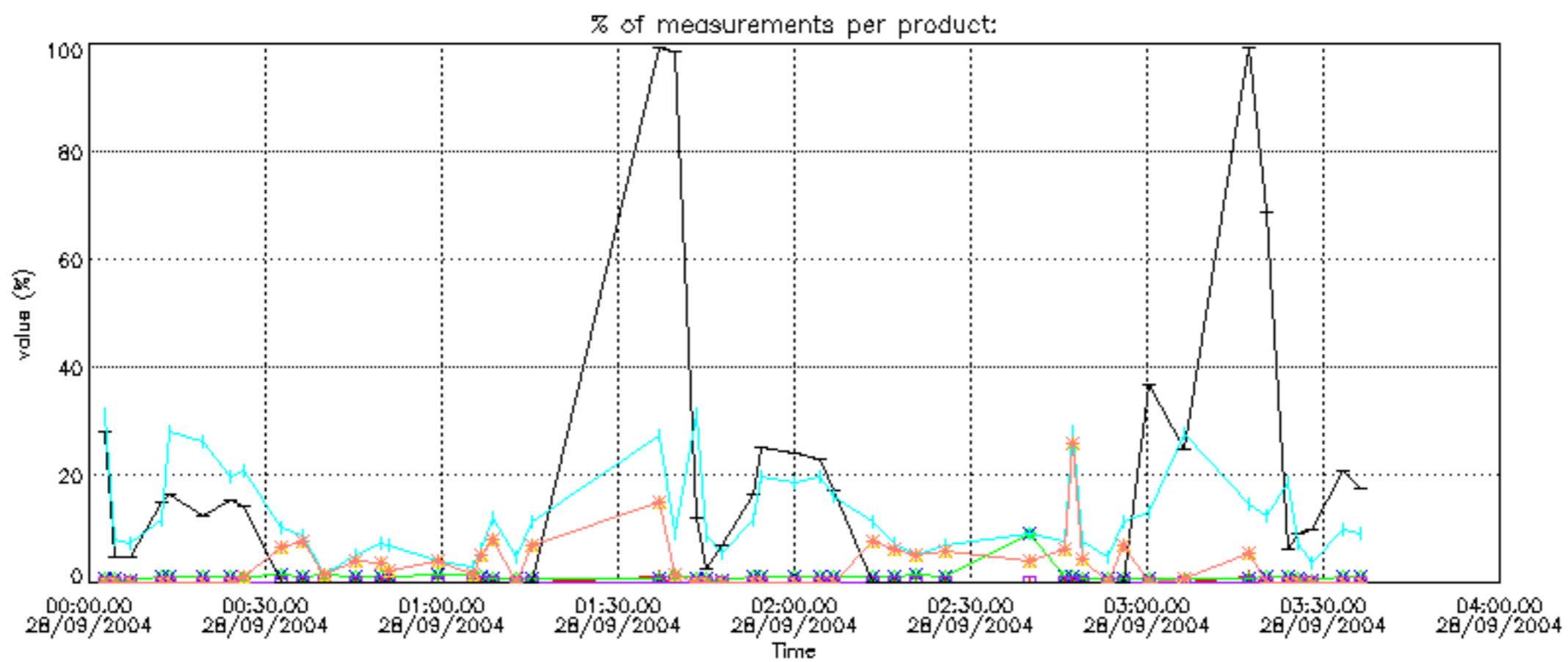
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

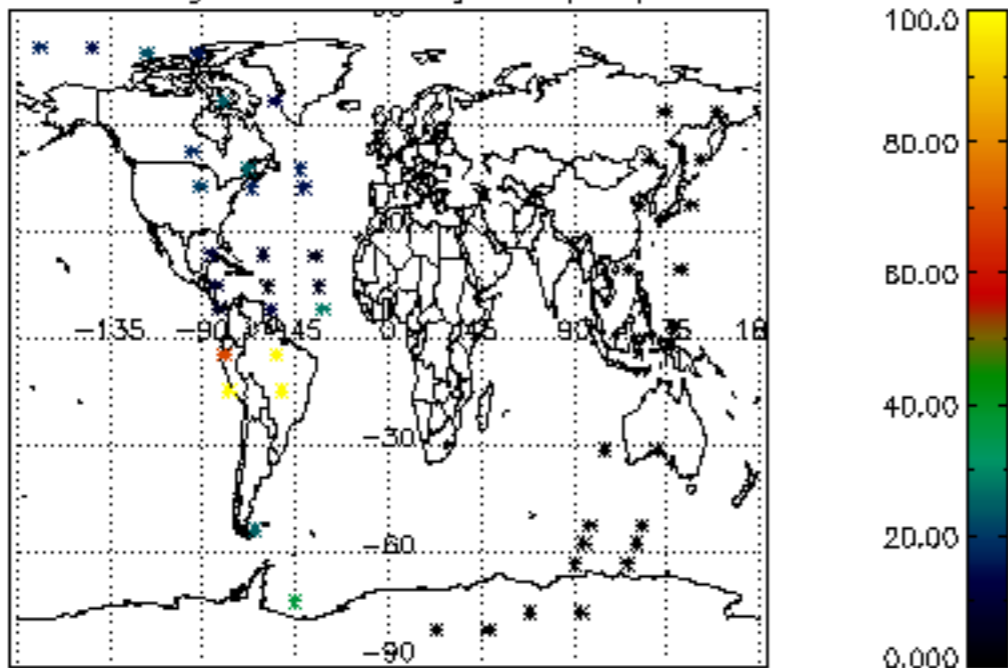
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.4	1447.4	1461.5	1448.5
St. deviation:	5.5268	6.4146	5.6702	6.7562
Maximum:	1504.0	1494.0	1505.0	1494.0
Minimum:	1432.0	1404.0	1442.0	1425.0
Number of data:	31800.	31800.	32950.	32950.



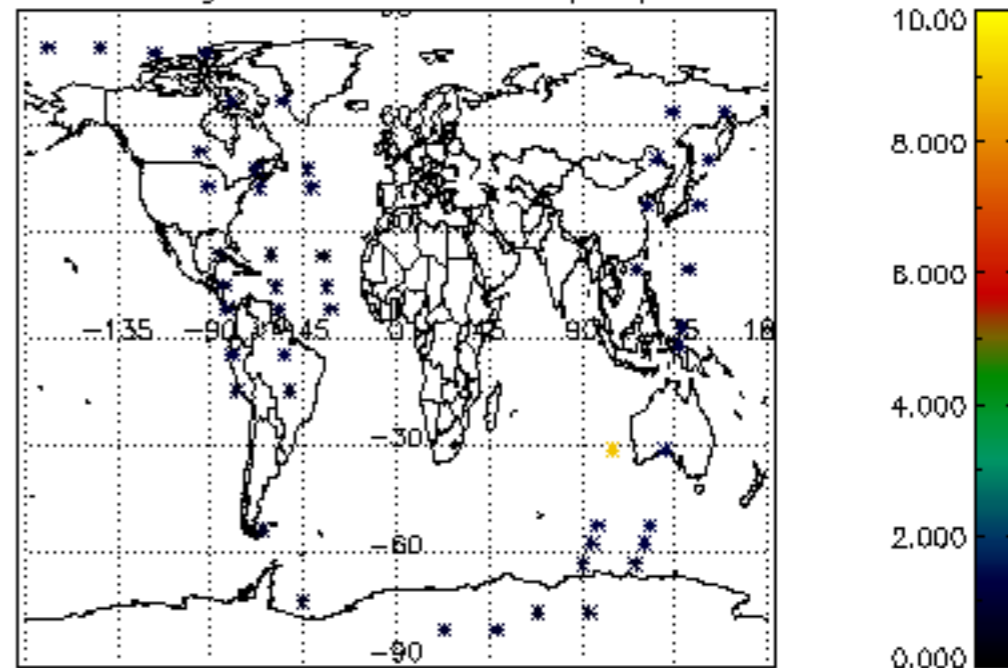




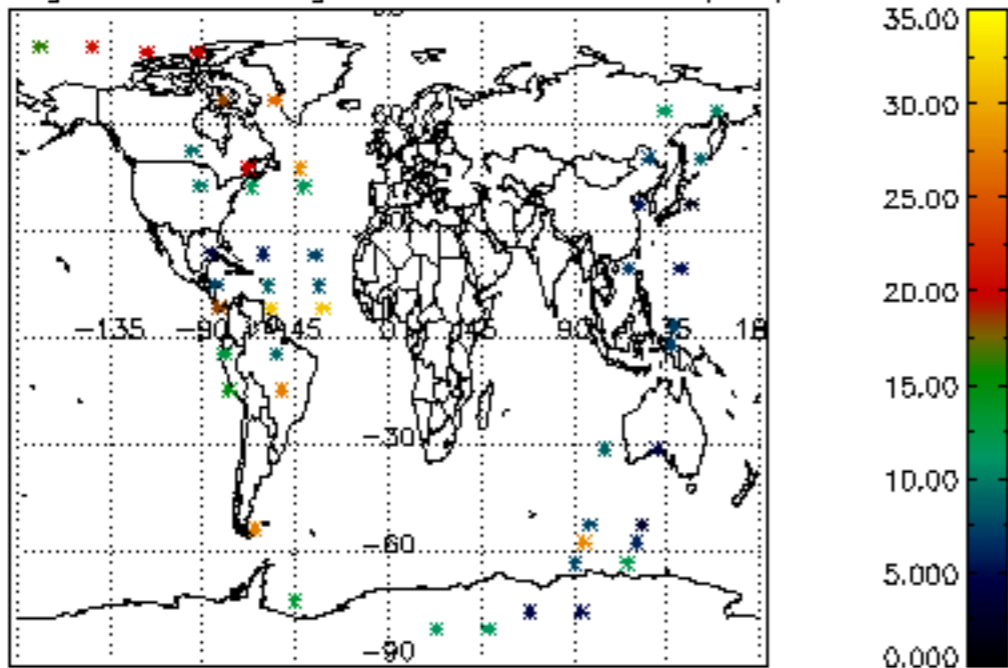
Percentage of cosmic ray hits per profile



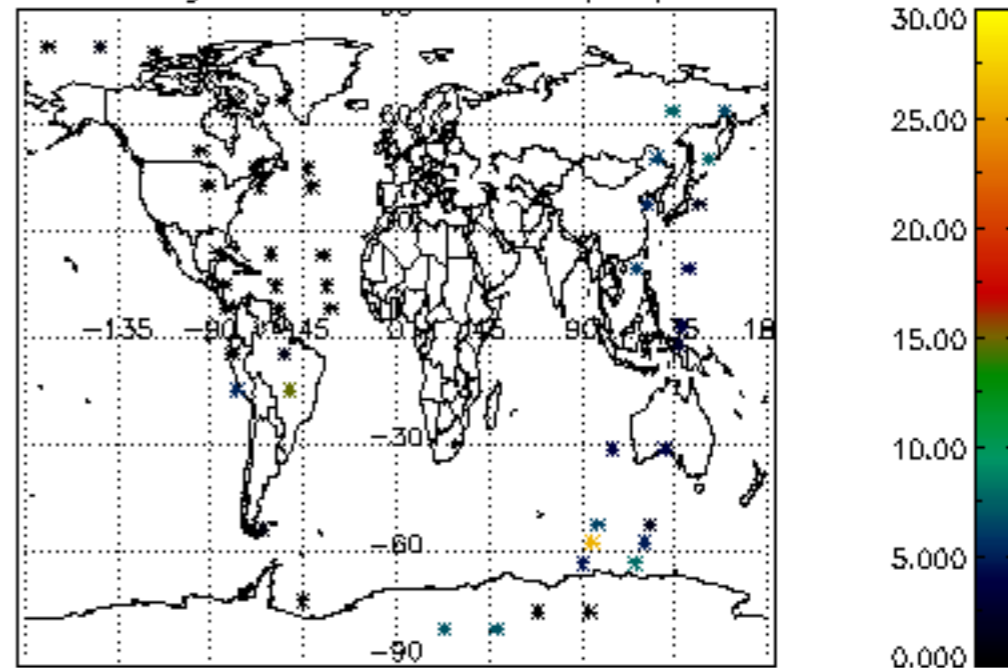
Percentage of datation errors per profile



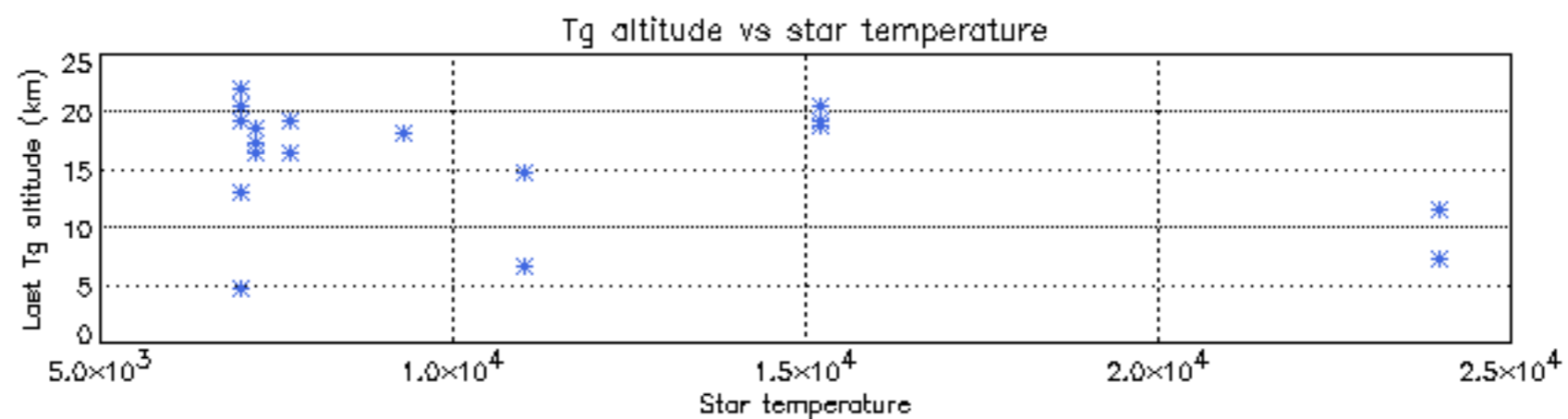
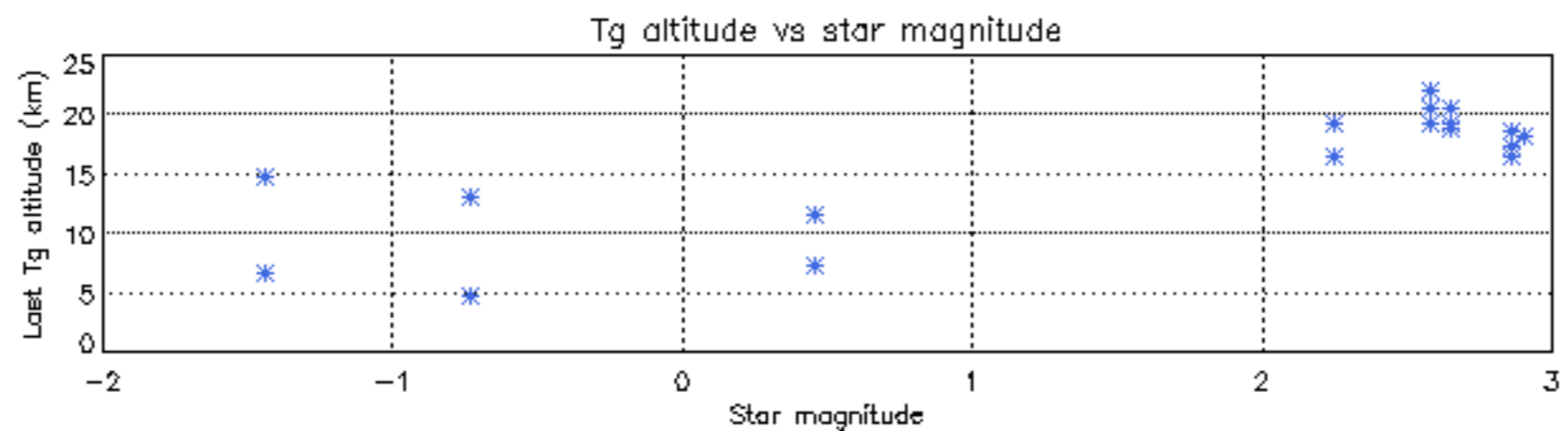
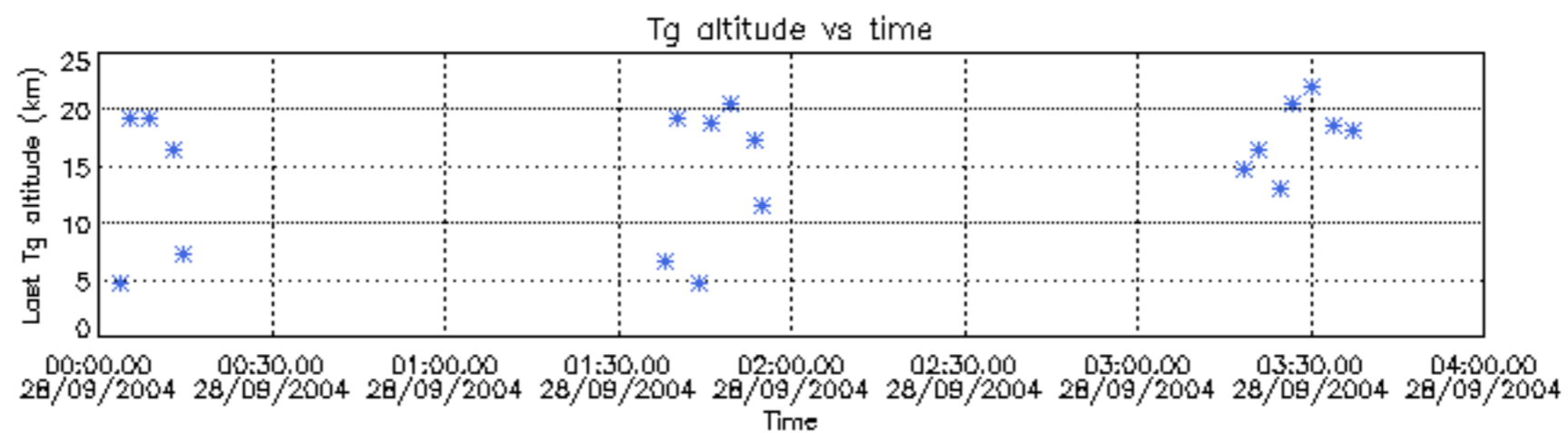
Percentage of star falling outside central band per profile



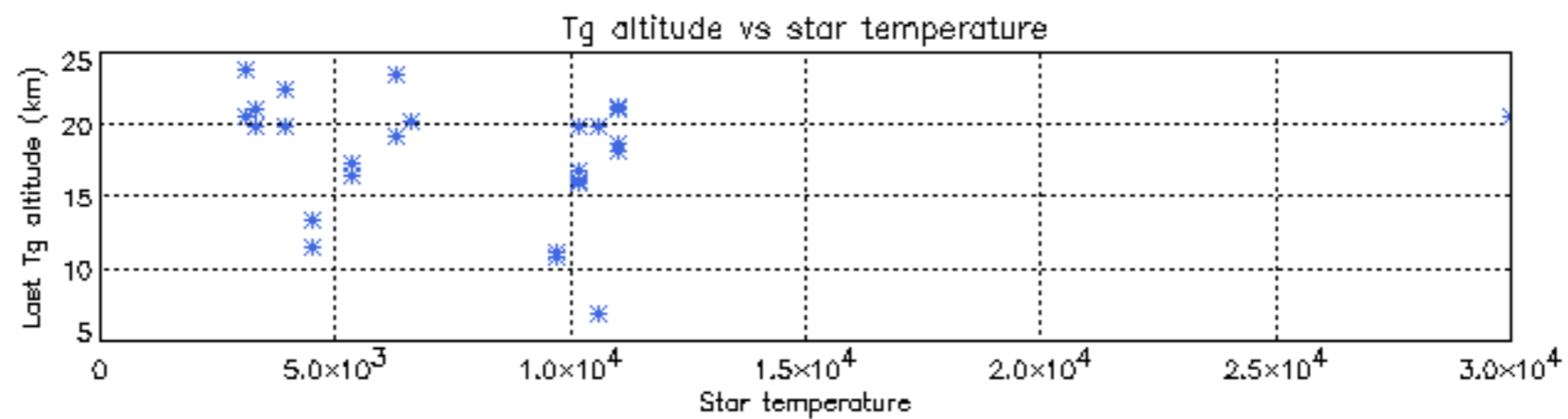
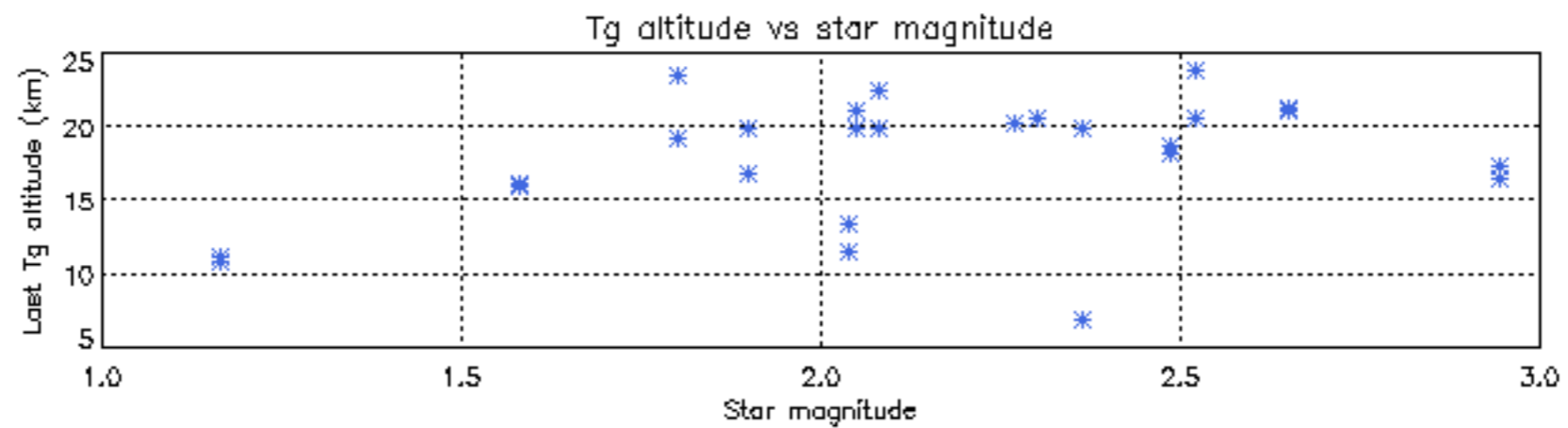
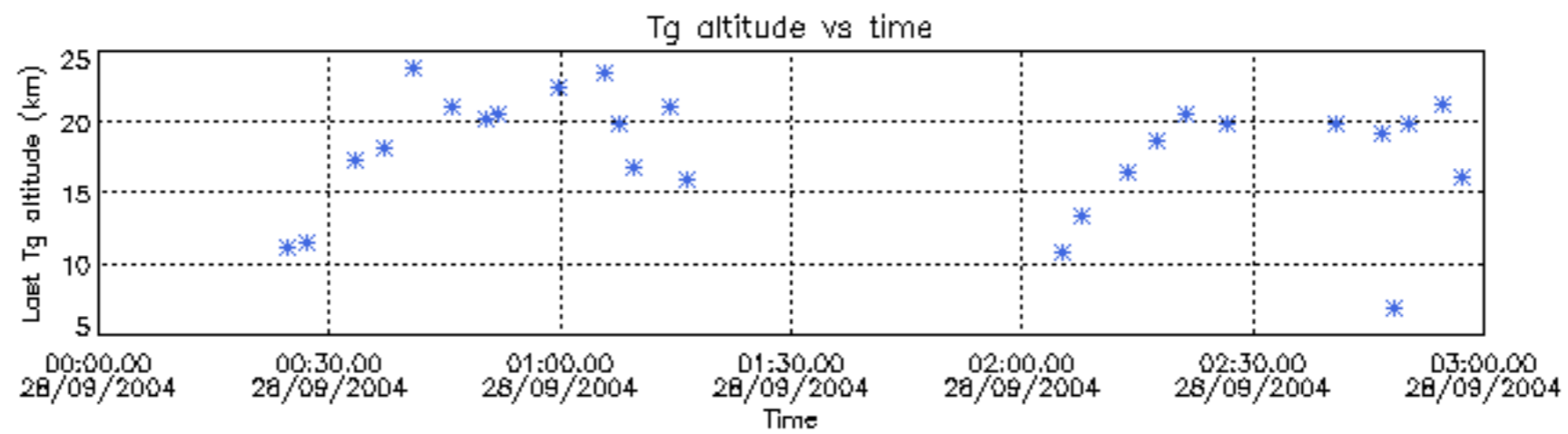
Percentage of saturation errors per profile



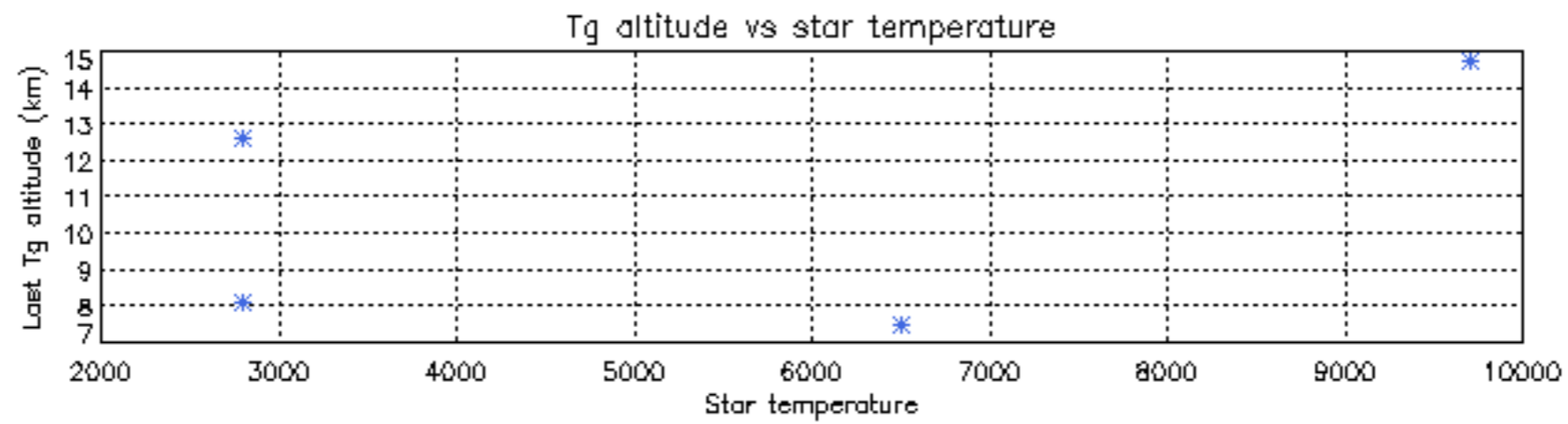
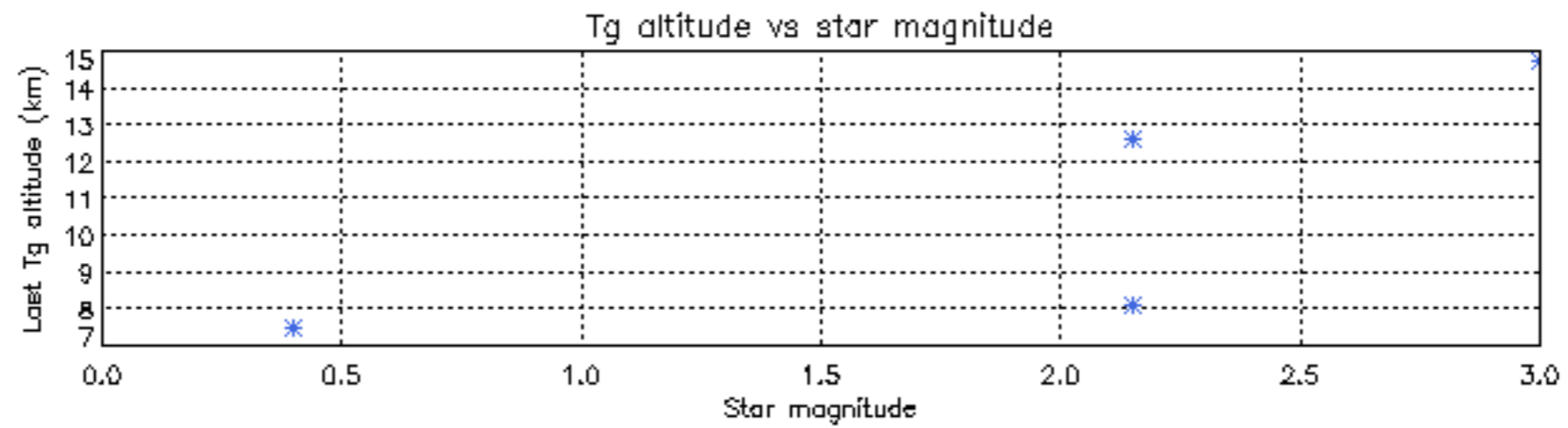
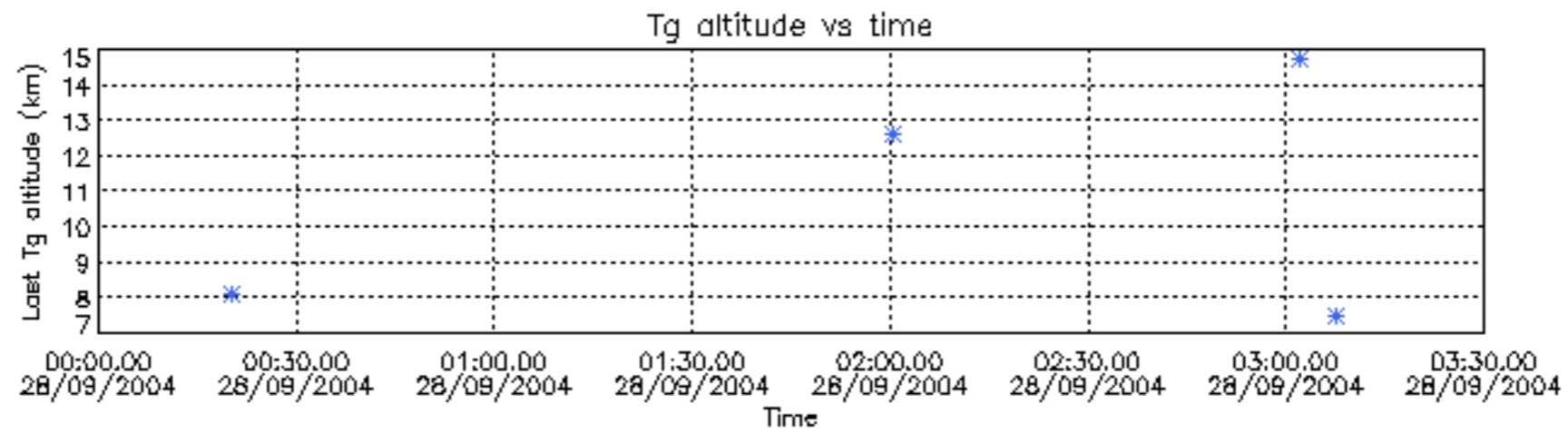
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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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
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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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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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26; 4377.2; 01-SEP-2004 02:02:13; Bright; 48.5; 107; 37The Aur ; 2.65; 11000;occ; 97; 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
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15; 529.0; 01-SEP-2004 04:19:17; Dark ; 43.5; 143; Alp Hyi ; 2.86; 7200;occ; 87; 0;13099
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17; 864.6; 01-SEP-2004 04:24:53; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;13099
18; 1051.3; 01-SEP-2004 04:27:59; Dark ; 46.0; 63; Bet Gru ; 2.15; 2800;occ; 92; 0;13099
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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
25; 2486.4; 01-SEP-2004 04:51:54; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;13099
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17; 865.2; 01-SEP-2004 06:05:29; Dark ; 48.5; 148; Alp Tuc ; 2.88; 4100;occ; 97; 0;13100
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19; 1329.9; 01-SEP-2004 06:13:14; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;13100
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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
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13; -90.3; 01-SEP-2004 07:30:10; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;13100
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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17;-1241.3; 01-SEP-2004 08:51:35; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;13101

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11; 1281.7; 10-SEP-2004 23:15:39; Dark ; 40.0; 172; Gam Gru ; 3.00; 13100;occ; 80; 0;13239
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13; 1514.8; 10-SEP-2004 23:19:32; Dark ; 70.5; 52; 16Bet Cet ; 2.04; 4500;occ; 141; 0;13239
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11; 1141.2; 01-OCT-2004 00:25:09; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;13526
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15; 2165.1; 01-OCT-2004 00:42:13; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;13526

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