

GOMOS Daily Report 16-AUG-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	18AUG2004 05:01:40
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (16AUG2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (17AUG2004 00:00:00)

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

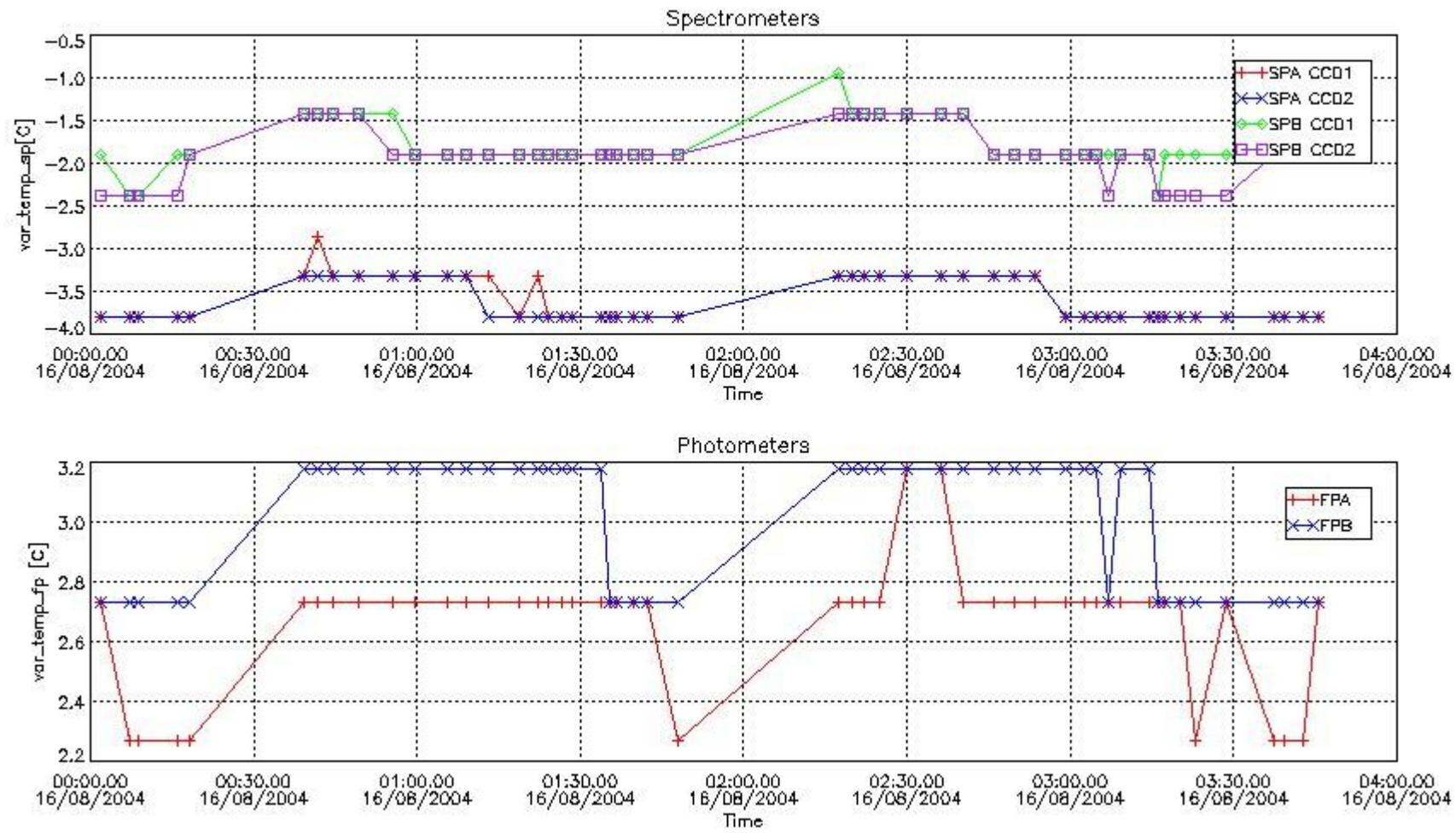
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040816_000145_000000422029_00288_12867_0017.N1	16-AUG-2004 00:01:45	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	12867	No
GOM_TRA_1PNPDE20040816_000721_000000352029_00288_12867_0018.N1	16-AUG-2004 00:07:21	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	12867	No
GOM_TRA_1PNPDE20040816_000848_000000392029_00288_12867_0019.N1	16-AUG-2004 00:08:48	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	12867	No
GOM_TRA_1PNPDE20040816_001606_000000552029_00288_12867_0020.N1	16-AUG-2004 00:16:06	Bright	54.500	160	23Gam Per	2.9300	4700.0	109	12867	No
GOM_TRA_1PNPDE20040816_001805_000000582029_00288_12867_0021.N1	16-AUG-2004 00:18:05	Bright	57.500	35	33Alp Per	1.7950	6250.0	115	12867	No
GOM_TRA_1PNPDE20040816_003918_000000492029_00288_12867_0000.N1	16-AUG-2004 00:39:18	Dark	48.500	1	9Alp CMa	-1.4400	11000.	97	12867	No
GOM_TRA_1PNPDE20040816_004134_000000462029_00288_12867_0001.N1	16-AUG-2004 00:41:34	Dark	46.000	37	25Del CMa	1.8300	5900.0	92	12867	No
GOM_TRA_1PNPDE20040816_004425_000000442029_00288_12867_0002.N1	16-AUG-2004 00:44:25	Dark	43.500	117	Pi Pup	2.7060	3800.0	87	12867	No
GOM_TRA_1PNPDE20040816_004915_000000482029_00288_12867_0003.N1	16-AUG-2004 00:49:15	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	12867	No
GOM_TRA_1PNPDE20040816_005539_000000542029_00289_12868_0004.N1	16-AUG-2004 00:55:39	Dark	54.000	157	The1Eri	2.9060	9300.0	108	12868	No
GOM_TRA_1PNPDE20040816_005945_000000542029_00289_12868_0005.N1	16-AUG-2004 00:59:45	Dark	54.000	9	Alp Eri	0.45300	24000.	108	12868	No
GOM_TRA_1PNPDE20040816_010529_000000622029_00289_12868_0006.N1	16-AUG-2004 01:05:29	Twilight	61.500	84	Alp Phe	2.3970	4500.0	123	12868	No
GOM_TRA_1PNPDE20040816_010902_000000442029_00289_12868_0007.N1	16-AUG-2004 01:09:02	Bright	44.000	31	Alp Gru	1.7340	15200.	88	12868	No
GOM_TRA_1PNPDE20040816_011258_000000592029_00289_12868_0008.N1	16-AUG-2004 01:12:58	Bright	59.000	18	24Alp PsA	1.1660	9700.0	118	12868	No
GOM_TRA_1PNPDE20040816_011837_000000462029_00289_12868_0009.N1	16-AUG-2004 01:18:37	Bright	45.500	142	49Del Cap	2.8500	8900.0	91	12868	No
GOM_TRA_1PNPDE20040816_012206_000000442029_00289_12868_0010.N1	16-AUG-2004 01:22:06	Bright	44.000	154	22Bet Aqr	2.8990	5700.0	88	12868	No
GOM_TRA_1PNPDE20040816_012407_000000522029_00289_12868_0011.N1	16-AUG-2004 01:24:07	Bright	52.000	162	34Alp Aqr	2.9440	5350.0	104	12868	No
GOM_TRA_1PNPDE20040816_012631_000000382029_00289_12868_0012.N1	16-AUG-2004 01:26:31	Bright	37.500	11	53Alp Aql	0.76500	8000.0	75	12868	No
GOM_TRA_1PNPDE20040816_012825_000000372029_00289_12868_0013.N1	16-AUG-2004 01:28:25	Bright	36.500	168	17Zet Aql	2.9860	11000.	73	12868	No
GOM_TRA_1PNPDE20040816_013348_000000412029_00289_12868_0014.N1	16-AUG-2004 01:33:48	Bright	40.500	92	53Eps Cyg	2.5000	4500.0	81	12868	No
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GOM_TRA_1PNPDE20040816_013641_000000382029_00289_12868_0016.N1	16-AUG-2004 01:36:41	Bright	37.500	144	18Del Cyg	2.8600	11000.	75	12868	No
GOM_TRA_1PNPDE20040816_013941_000000392029_00289_12868_0017.N1	16-AUG-2004 01:39:41	Bright	38.500	69	33Gam Dra	2.2310	3800.0	77	12868	No
GOM_TRA_1PNPDE20040816_014221_000000422029_00289_12868_0018.N1	16-AUG-2004 01:42:21	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	12868	No
GOM_TRA_1PNPDE20040816_014757_000000372029_00289_12868_0019.N1	16-AUG-2004 01:47:57	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	12868	No
GOM_TRA_1PNPDE20040816_021732_000000512029_00289_12868_0000.N1	16-AUG-2004 02:17:32	Dark	50.500	30	46Eps Ori	1.6940	30000.	101	12868	No
GOM_TRA_1PNPDE20040816_021954_000000502029_00289_12868_0001.N1	16-AUG-2004 02:19:54	Dark	50.000	1	9Alp CMa	-1.4400	11000.	100	12868	No
GOM_TRA_1PNPDE20040816_022211_000000442029_00289_12868_0002.N1	16-AUG-2004 02:22:11	Dark	43.500	37	25Del CMa	1.8300	5900.0	87	12868	No
GOM_TRA_1PNPDE20040816_022501_000000432029_00289_12868_0003.N1	16-AUG-2004 02:25:01	Dark	43.000	117	Pi Pup	2.7060	3800.0	86	12868	No
GOM_TRA_1PNPDE20040816_022950_000000462029_00289_12868_0004.N1	16-AUG-2004 02:29:50	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	12868	No
GOM_TRA_1PNPDE20040816_023617_000000552029_00290_12869_0005.N1	16-AUG-2004 02:36:17	Dark	54.500	157	The1Eri	2.9060	9300.0	109	12869	No
GOM_TRA_1PNPDE20040816_024022_000000492029_00290_12869_0006.N1	16-AUG-2004 02:40:22	Dark	48.500	9	Alp Eri	0.45300	24000.	97	12869	No
GOM_TRA_1PNPDE20040816_024606_000000582029_00290_12869_0007.N1	16-AUG-2004 02:46:06	Twilight	57.500	84	Alp Phe	2.3970	4500.0	115	12869	No
GOM_TRA_1PNPDE20040816_024939_000000432029_00290_12869_0008.N1	16-AUG-2004 02:49:39	Bright	43.000	31	Alp Gru	1.7340	15200.	86	12869	No
GOM_TRA_1PNPDE20040816_025335_000000612029_00290_12869_0009.N1	16-AUG-2004 02:53:35	Bright	60.500	18	24Alp PsA	1.1660	9700.0	121	12869	No
GOM_TRA_1PNPDE20040816_025914_000000472029_00290_12869_0010.N1	16-AUG-2004 02:59:14	Bright	46.500	142	49Del Cap	2.8500	8900.0	93	12869	No
GOM_TRA_1PNPDE20040816_030241_000000462029_00290_12869_0011.N1	16-AUG-2004 03:02:41	Bright	45.500	154	22Bet Aqr	2.8990	5700.0	91	12869	No
GOM_TRA_1PNPDE20040816_030443_000000512029_00290_12869_0012.N1	16-AUG-2004 03:04:43	Bright	51.000	162	34Alp Aqr	2.9440	5350.0	102	12869	No
GOM_TRA_1PNPDE20040816_030707_000000402029_00290_12869_0013.N1	16-AUG-2004 03:07:07	Bright	39.500	11	53Alp Aql	0.76500	8000.0	79	12869	No
GOM_TRA_1PNPDE20040816_030901_000000372029_00290_12869_0014.N1	16-AUG-2004 03:09:01	Bright	37.000	168	17Zet Aql	2.9860	11000.	74	12869	No
GOM_TRA_1PNPDE20040816_031424_000000412029_00290_12869_0015.N1	16-AUG-2004 03:14:24	Bright	40.500	92	53Eps Cyg	2.5000	4500.0	81	12869	No
GOM_TRA_1PNPDE20040816_031559_000000402029_00290_12869_0016.N1	16-AUG-2004 03:15:59	Bright	39.500	66	37Gam Cyg	2.2080	5900.0	79	12869	No
GOM_TRA_1PNPDE20040816_031718_000000382029_00290_12869_0017.N1	16-AUG-2004 03:17:18	Bright	37.500	144	18Del Cyg	2.8600	11000.	75	12869	No
GOM_TRA_1PNPDE20040816_032016_000000372029_00290_12869_0018.N1	16-AUG-2004 03:20:16	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	12869	No
GOM_TRA_1PNPDE20040816_032257_000000382029_00290_12869_0019.N1	16-AUG-2004 03:22:57	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	12869	No
GOM_TRA_1PNPDE20040816_032833_000000362029_00290_12869_0020.N1	16-AUG-2004 03:28:33	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	12869	No
GOM_TRA_1PNPDE20040816_033717_000000552029_00290_12869_0000.N1	16-AUG-2004 03:37:17	Bright	54.500	160	23Gam Per	2.9300	4700.0	109	12869	No
GOM_TRA_1PNPDE20040816_033916_000000572029_00290_12869_0001.N1	16-AUG-2004 03:39:16	Bright	57.000	35	33Alp Per	1.7950	6250.0	114	12869	No
GOM_TRA_1PNPDE20040816_034251_000000762029_00290_12869_0002.N1	16-AUG-2004 03:42:51	Bright	75.500	79	26Bet Per	2.3100	13100.	151	12869	No

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



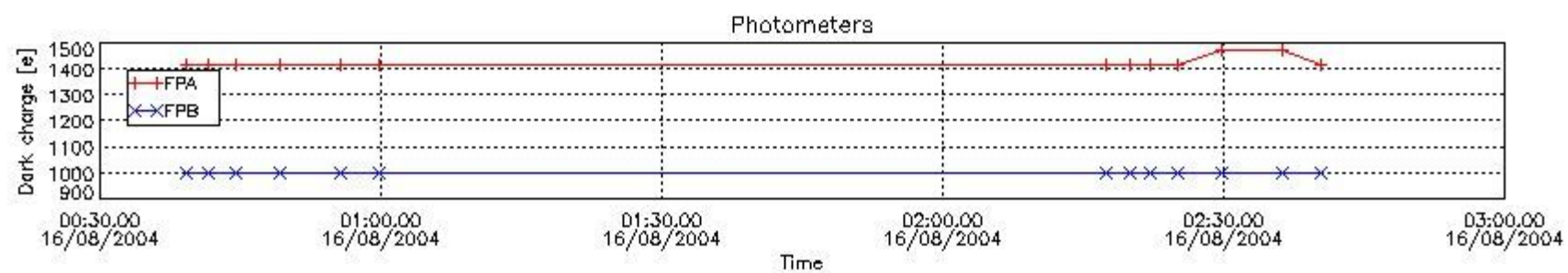
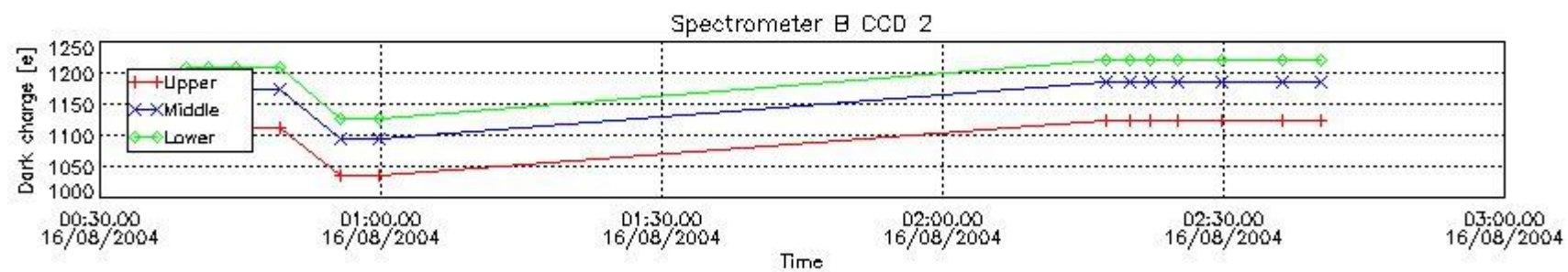
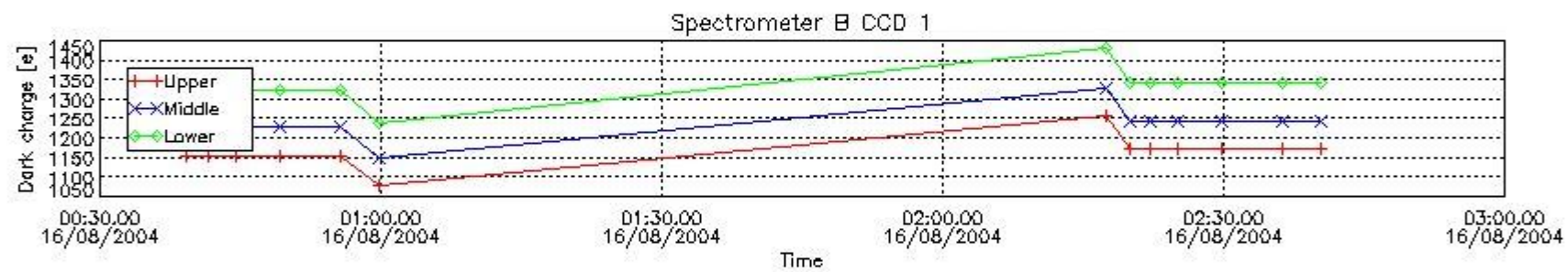
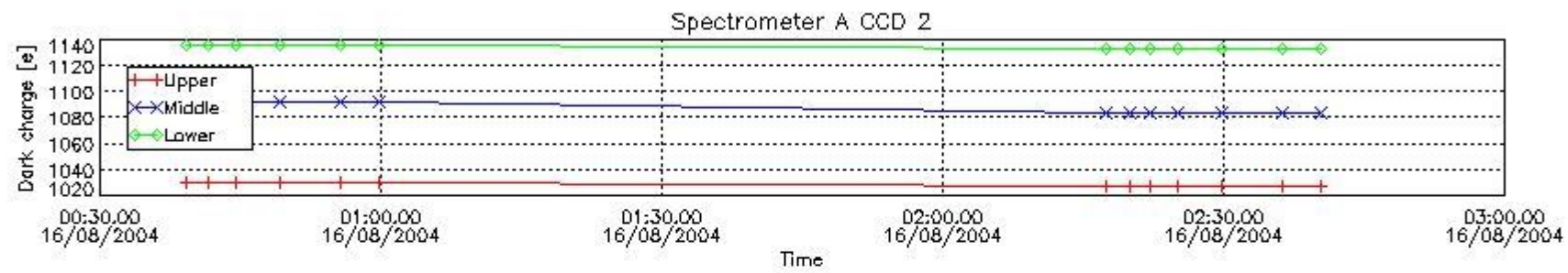
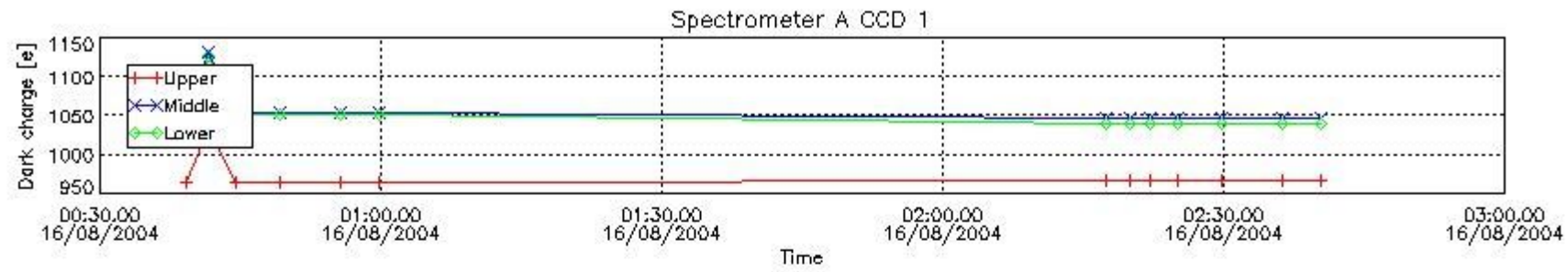
4. Overview of dark signal processing per product

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



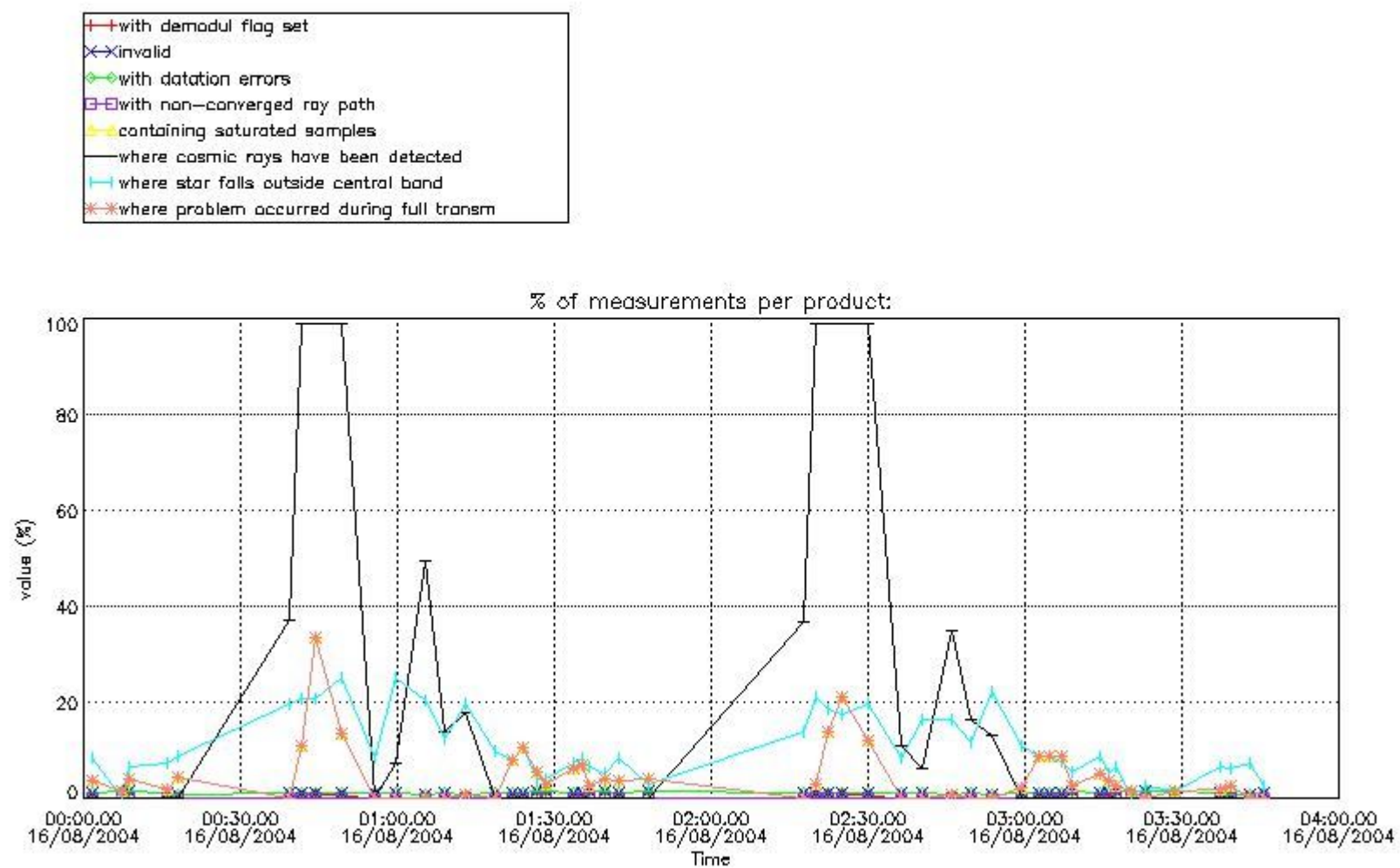
5. Demodulation flag and quality information monitoring

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.

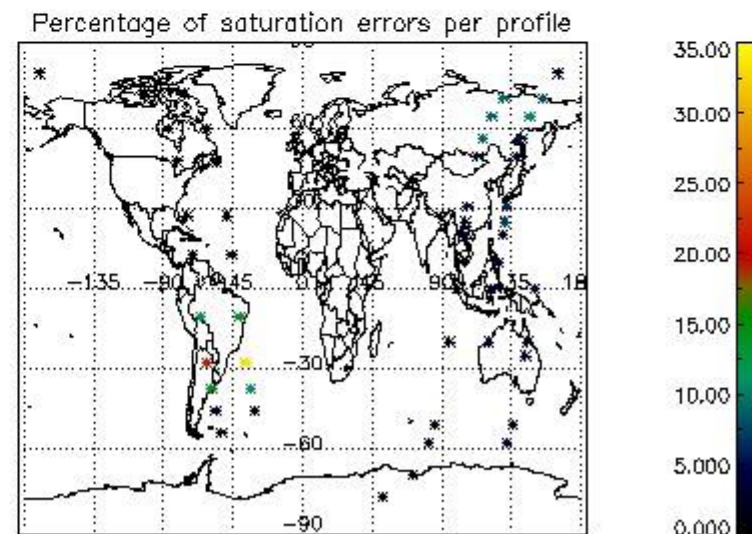
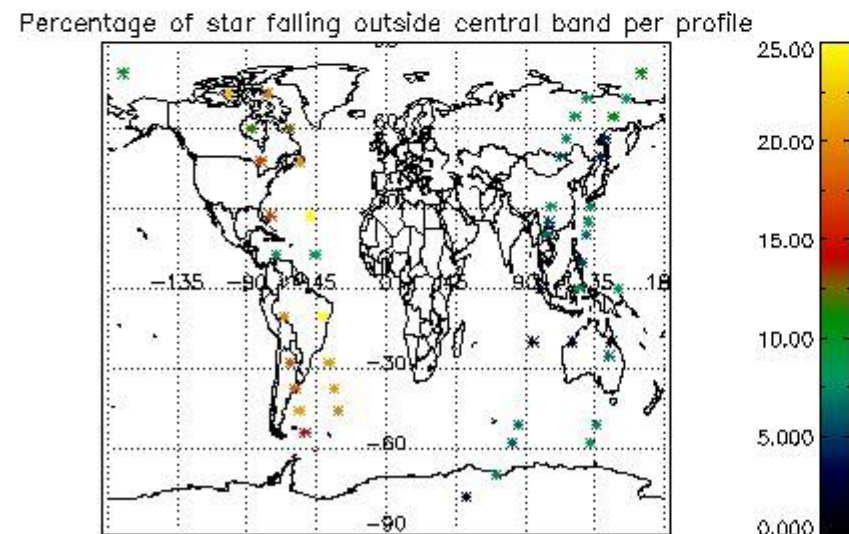
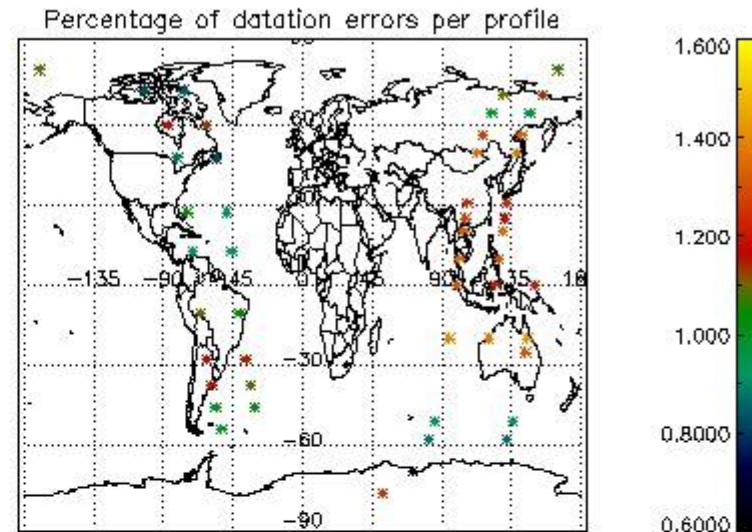
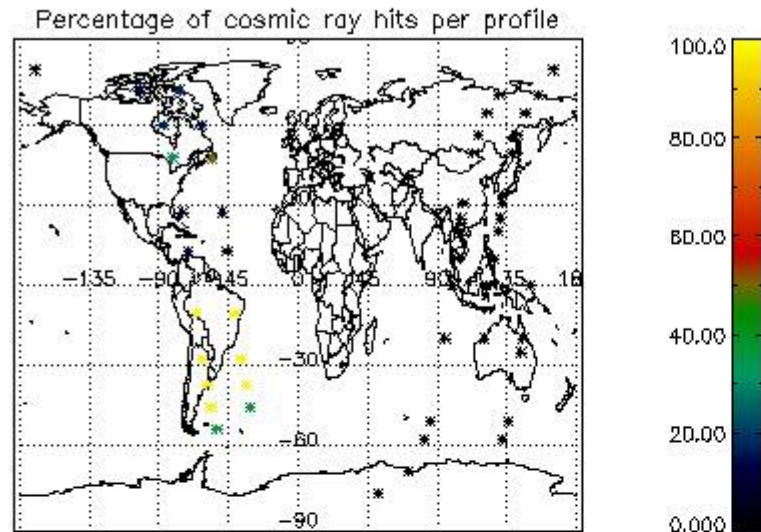
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.0000 %
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)



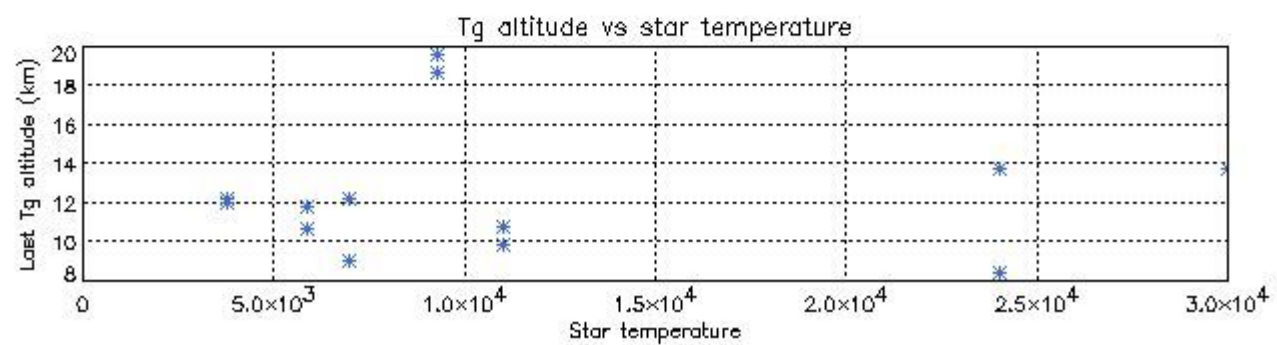
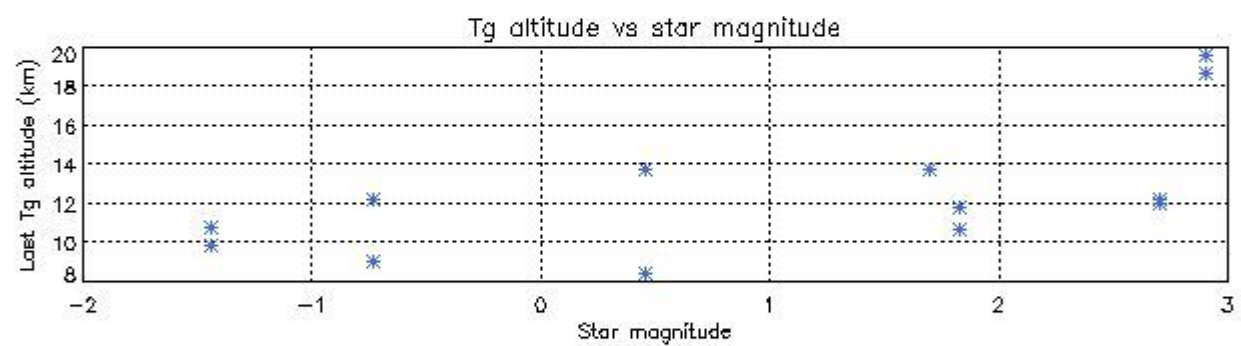
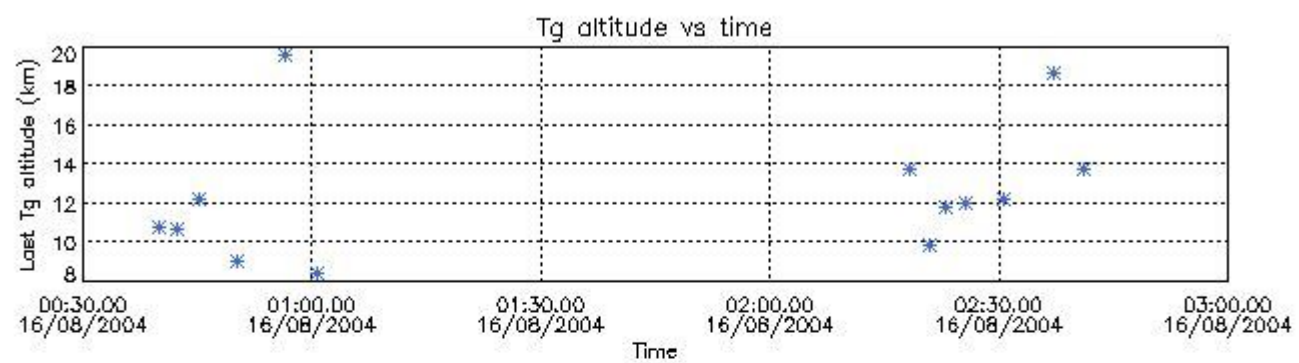
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.505	19.833	16.569
St. deviation:	3.3438	3.3731	7.0456
Maximum:	19.549	27.071	24.471
Minimum:	8.3593	10.128	10.942
Number of data:	13.000	34.000	3.0000

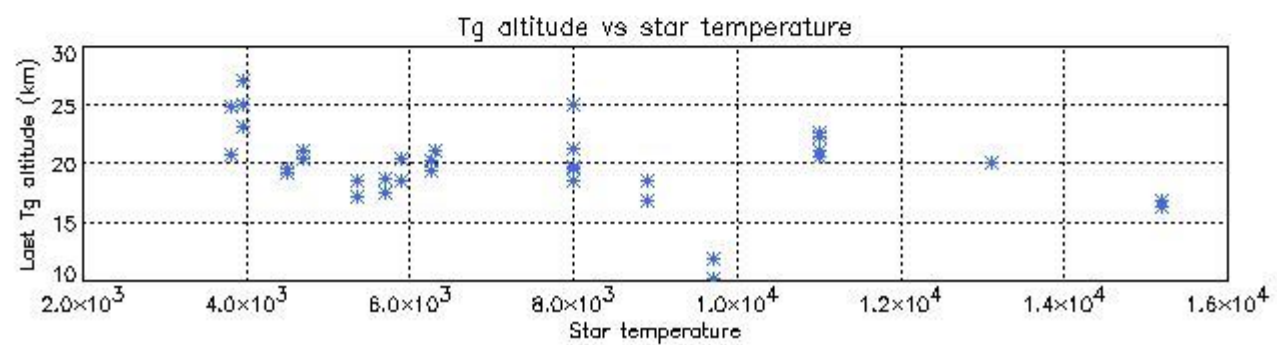
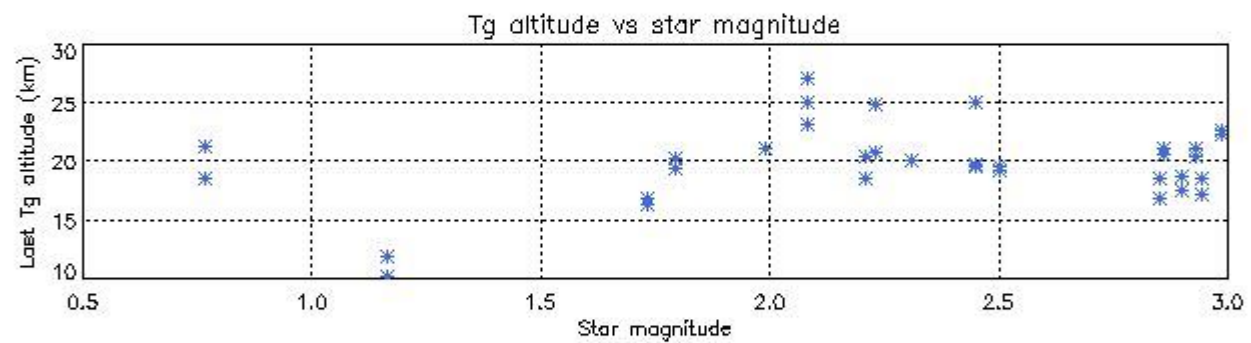
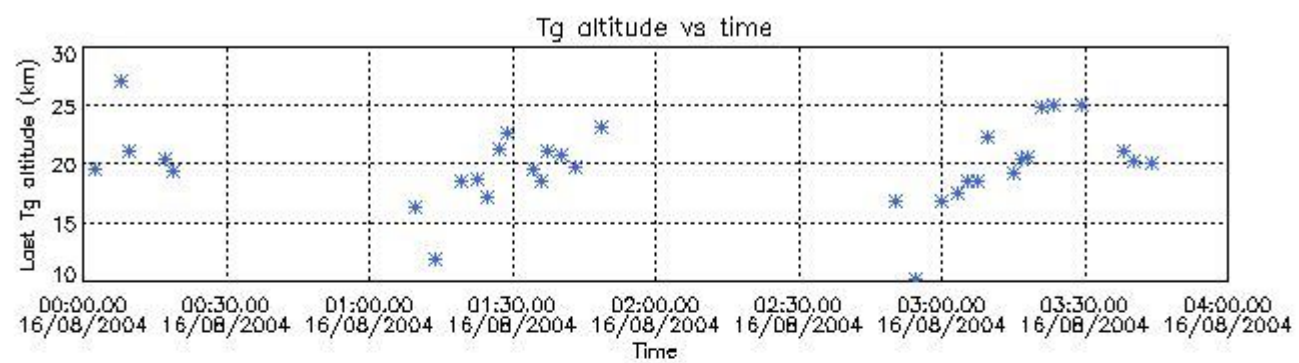
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



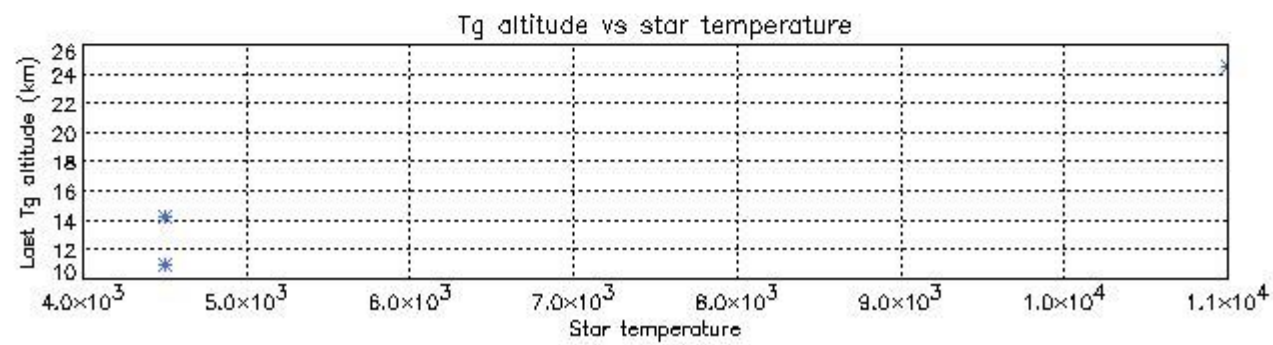
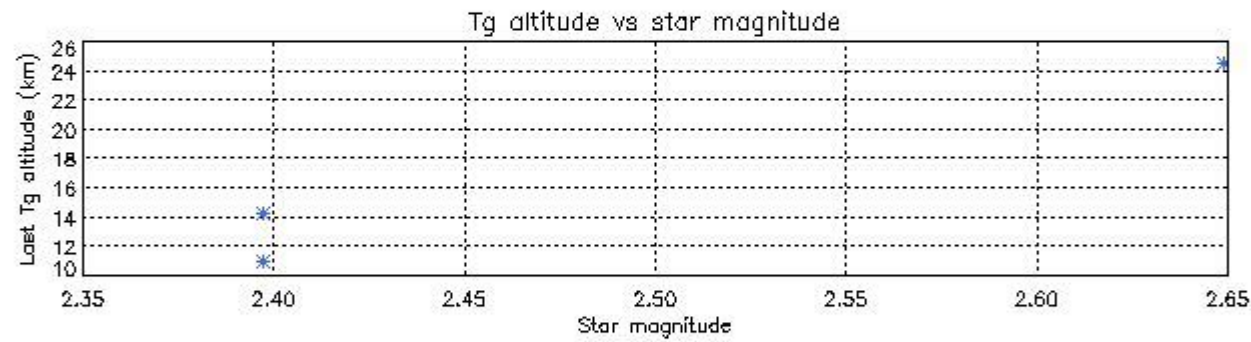
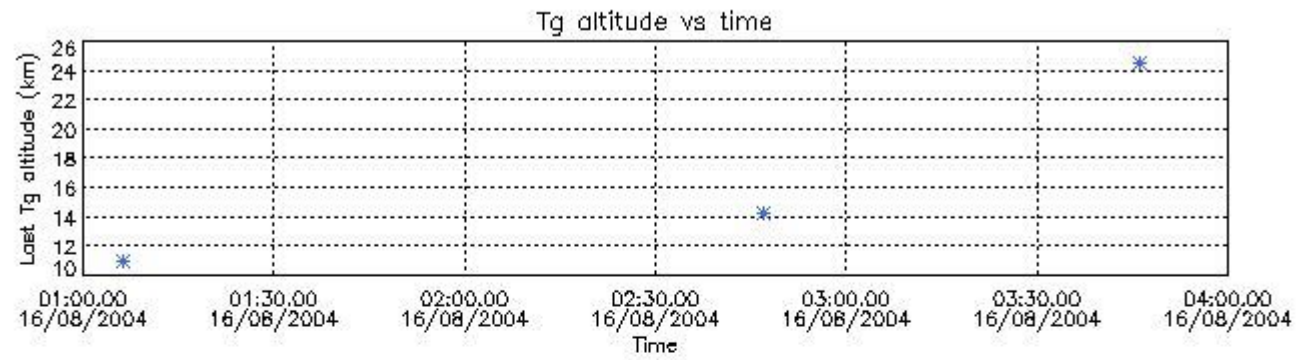
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

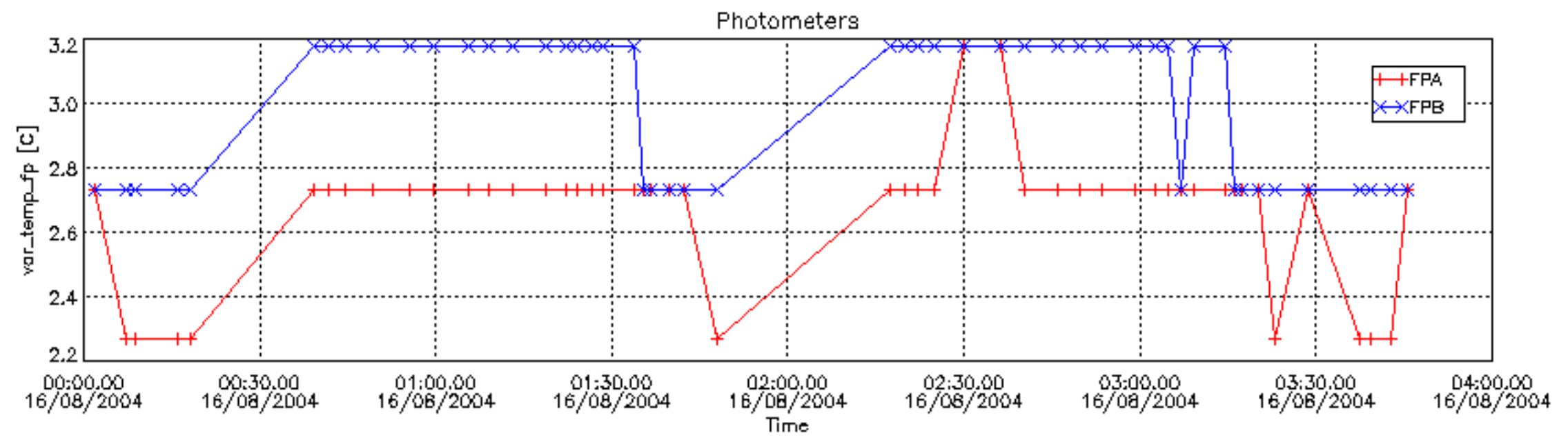
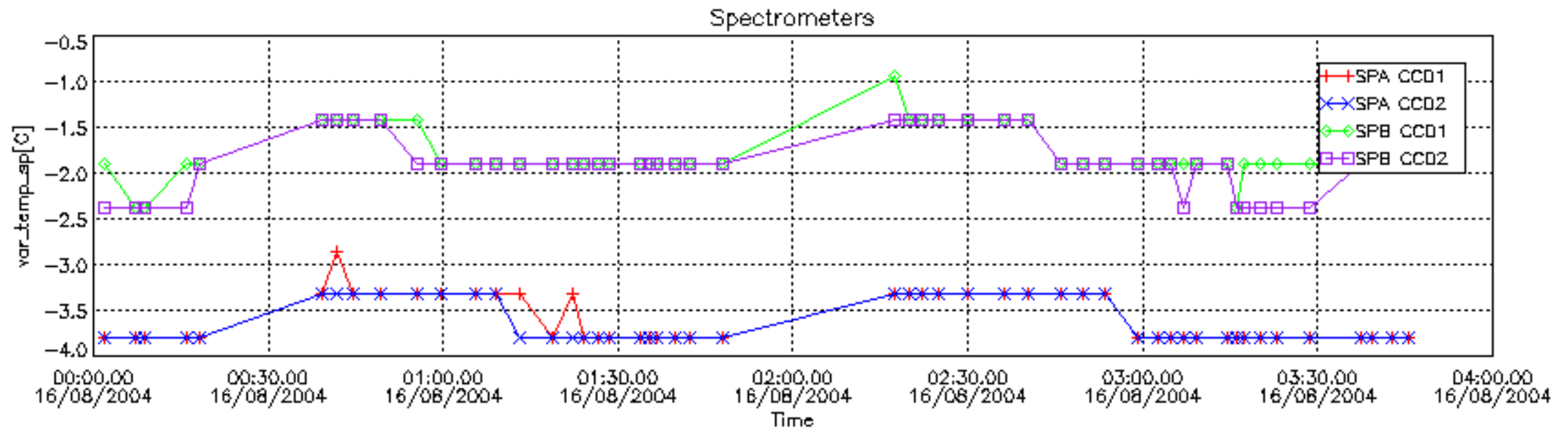
Tangent altitude at which the star is lost

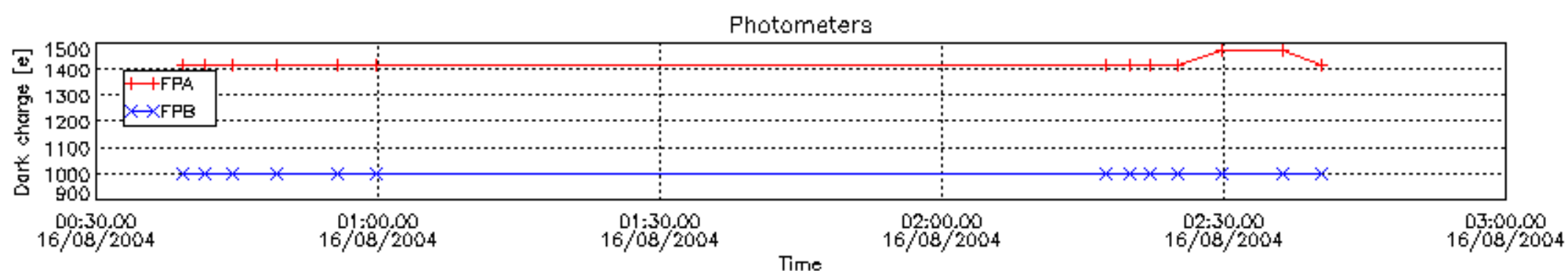
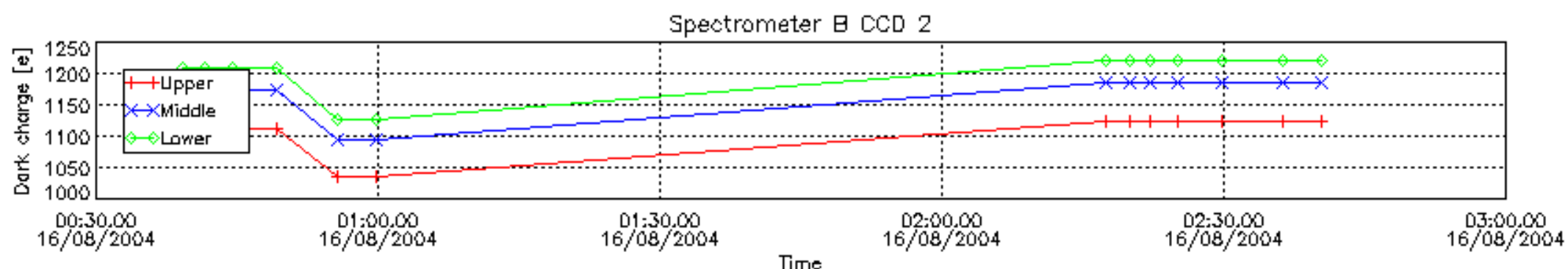
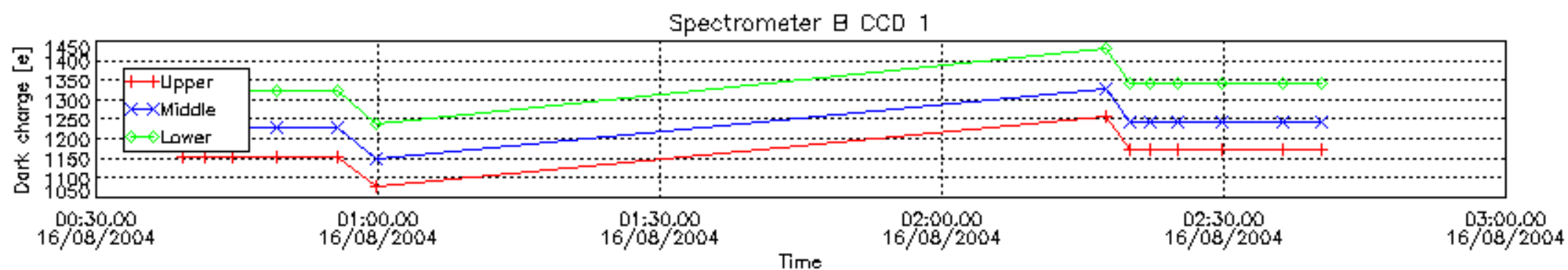
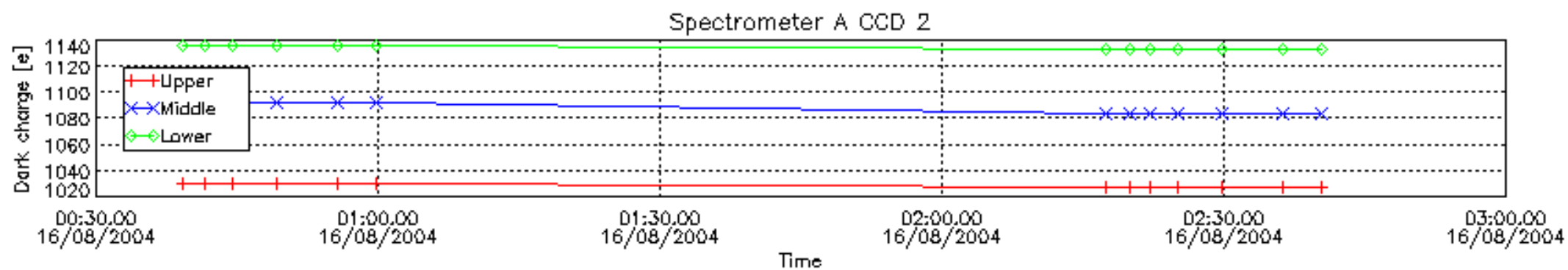
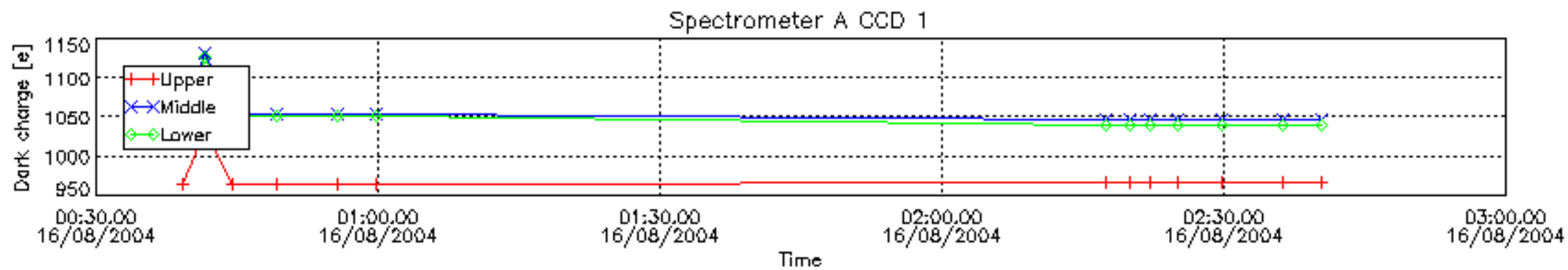


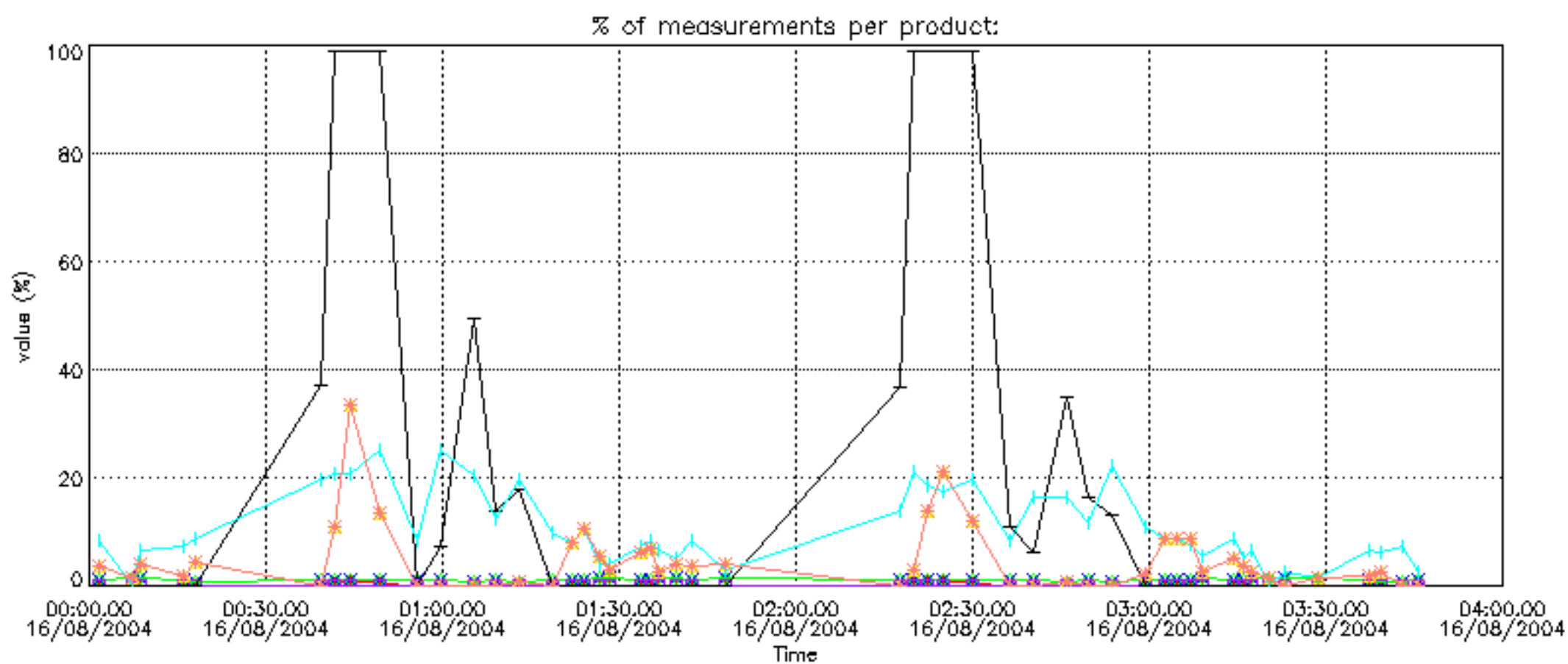
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

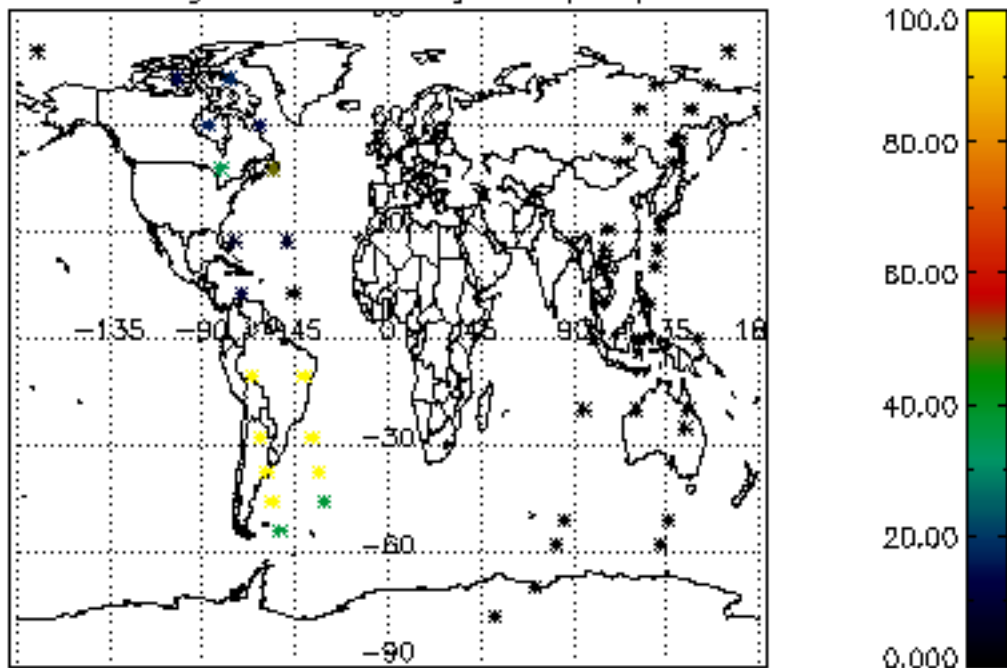
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.4	1446.8	1461.6	1448.0
St. deviation:	4.1407	5.4778	6.7703	7.4277
Maximum:	1518.0	1633.0	1508.0	1500.0
Minimum:	1456.0	1432.0	1444.0	1427.0
Number of data:	15800.	15800.	40100.	40100.



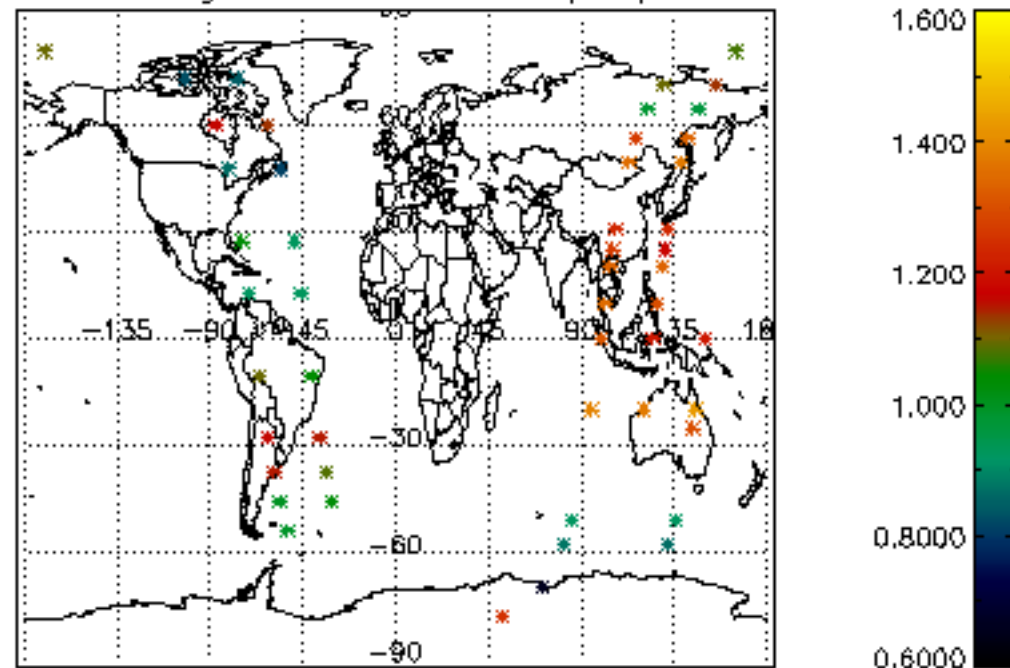




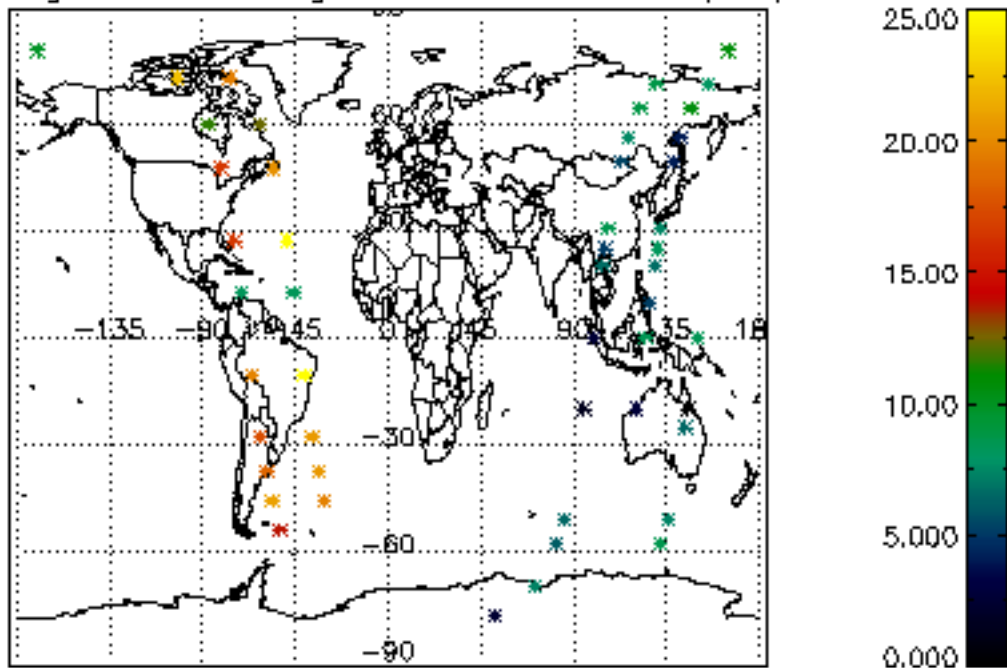
Percentage of cosmic ray hits per profile



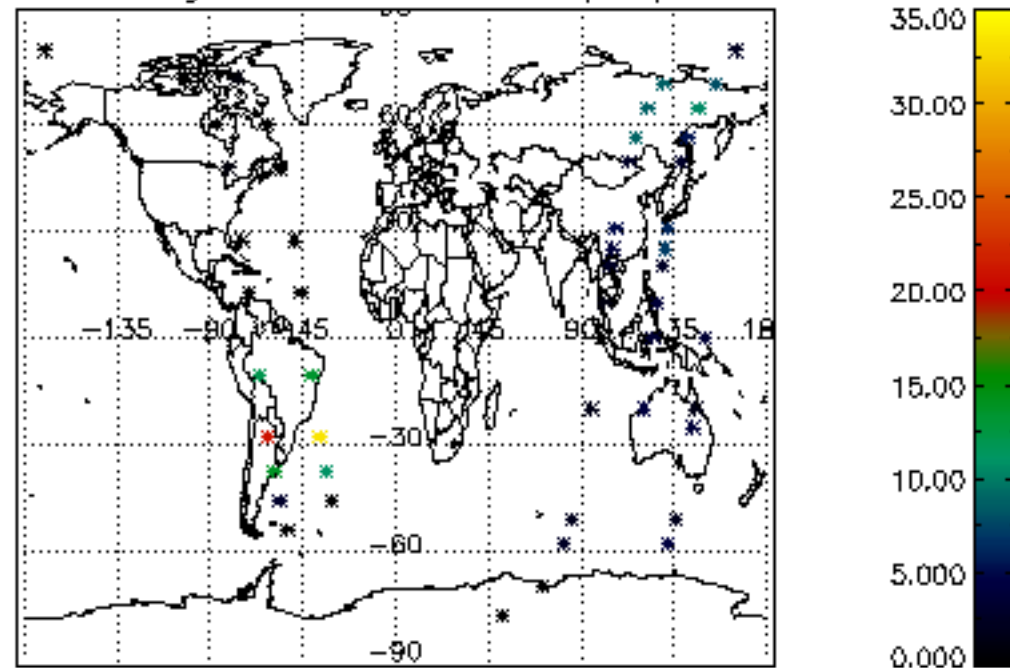
Percentage of datation errors per profile



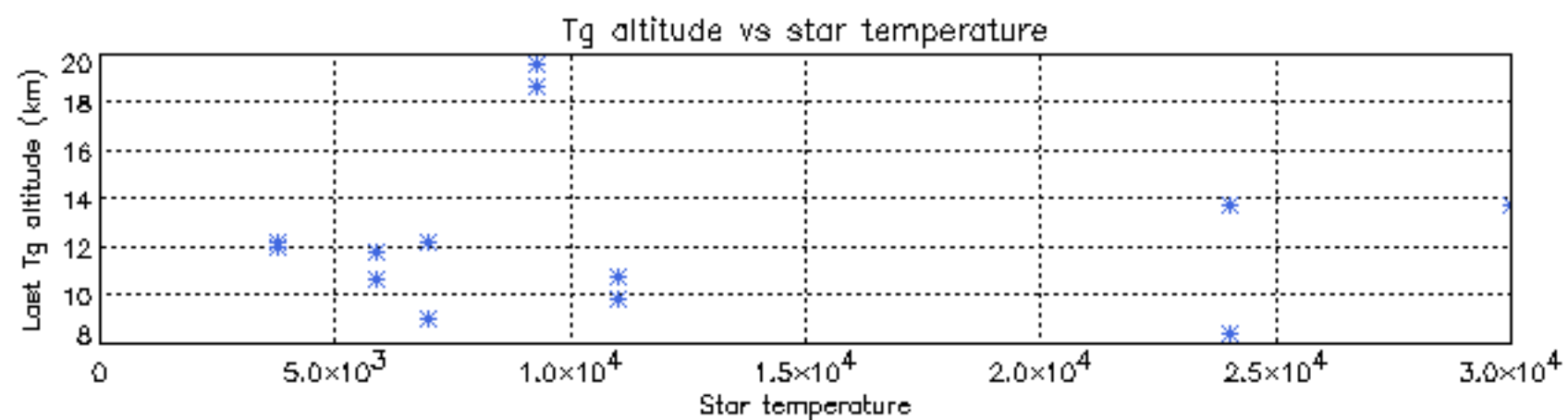
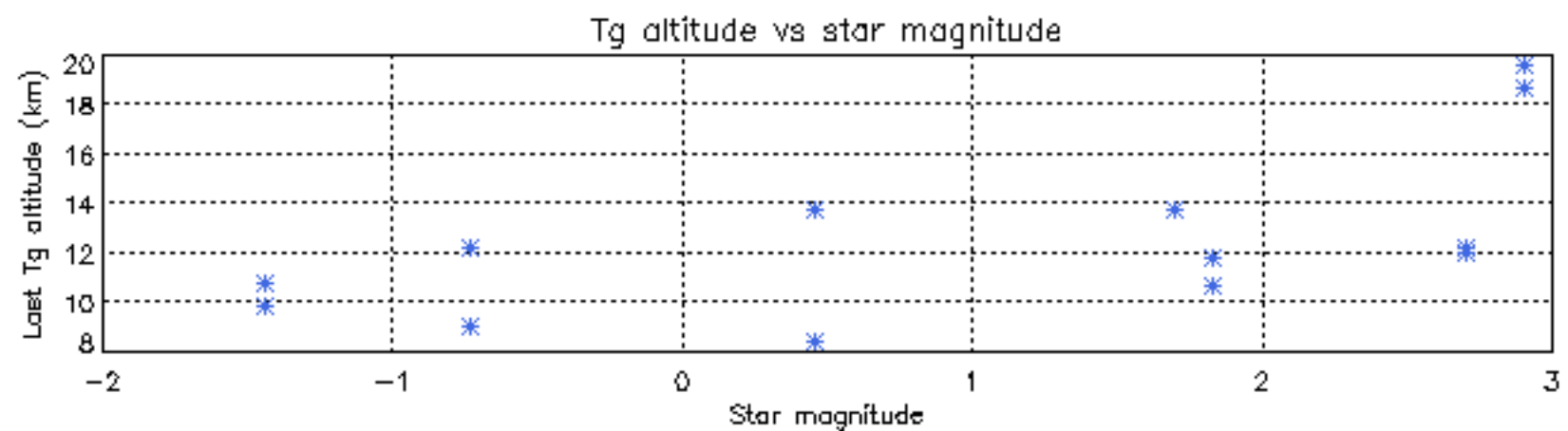
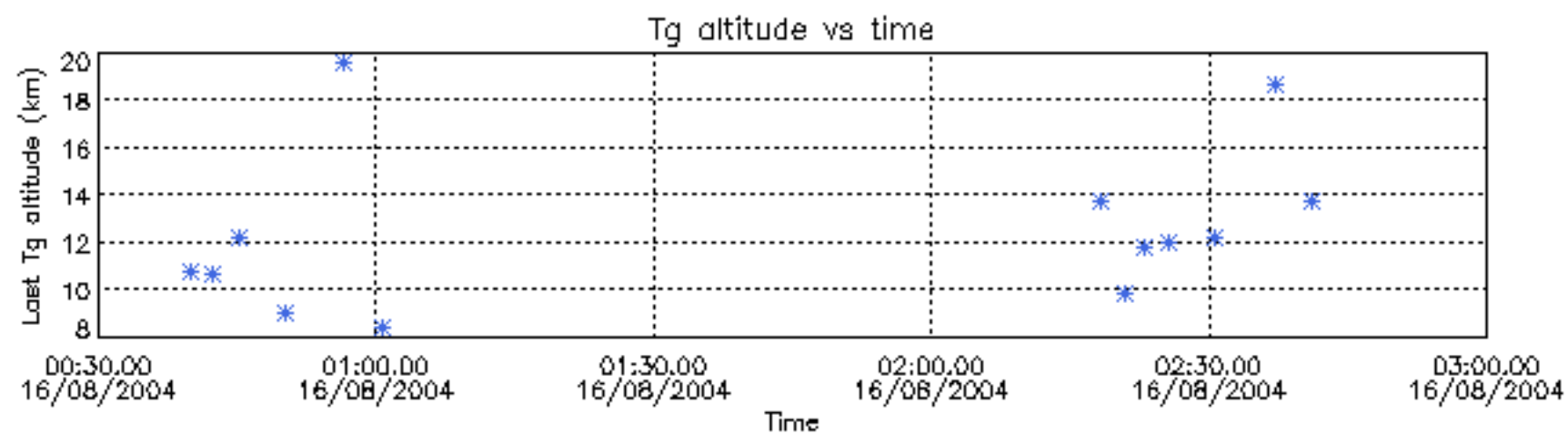
Percentage of star falling outside central band per profile



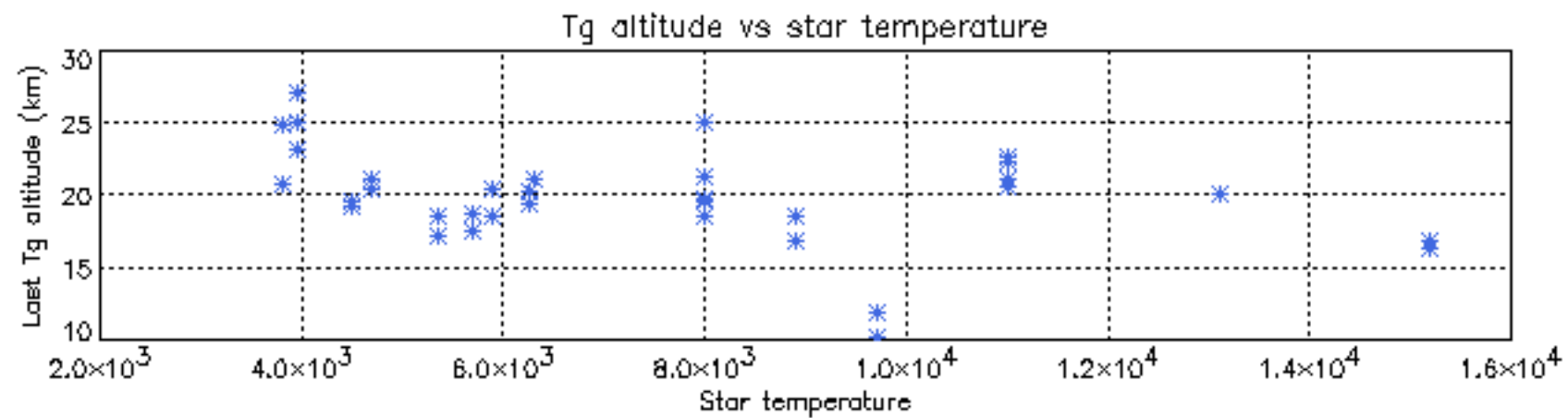
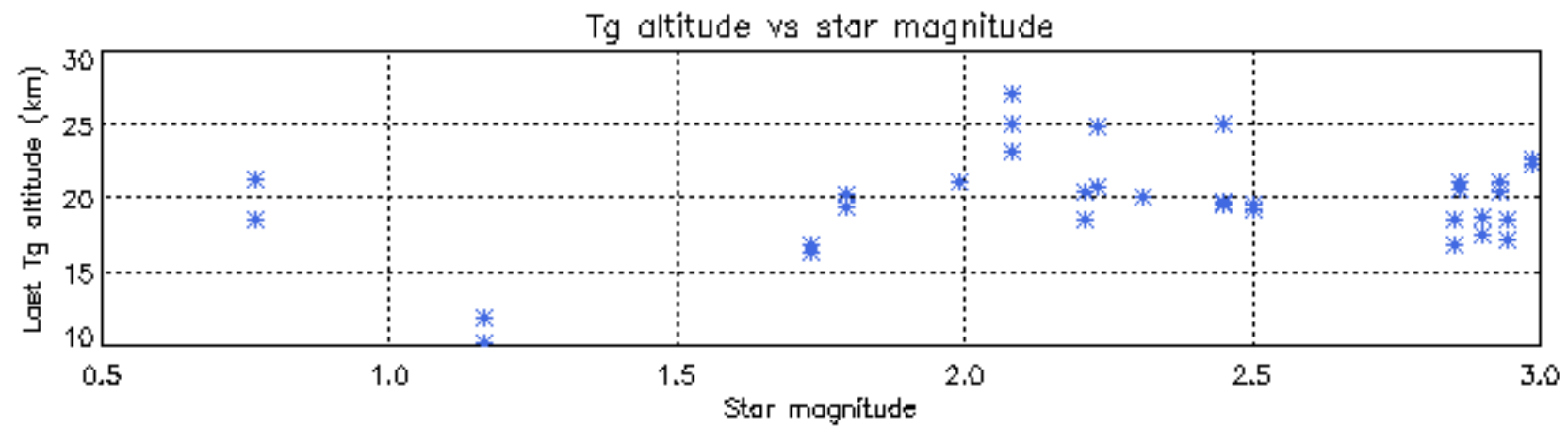
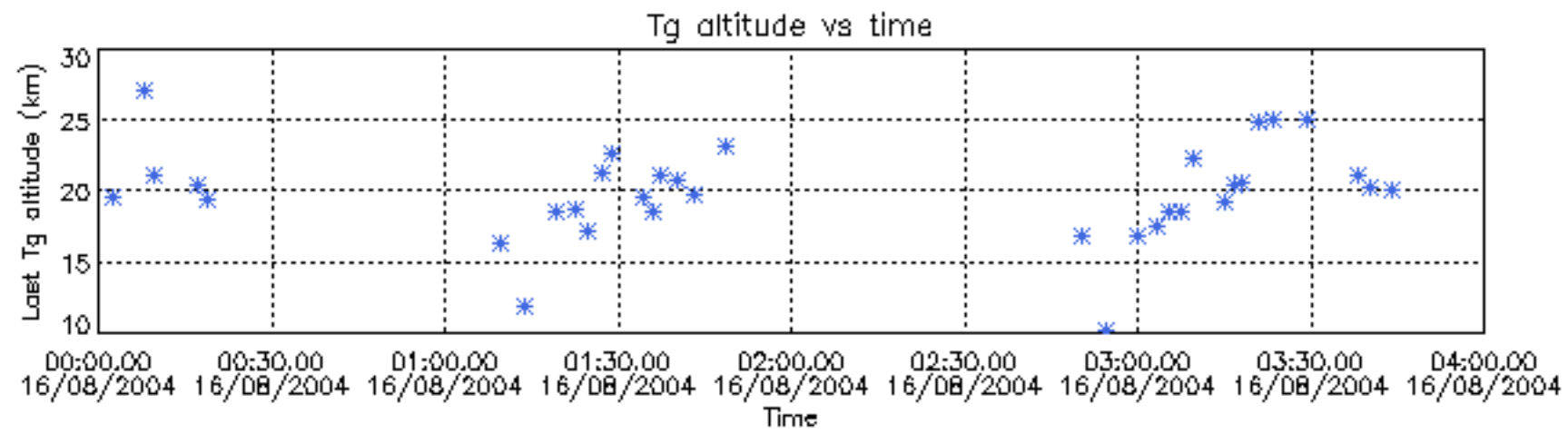
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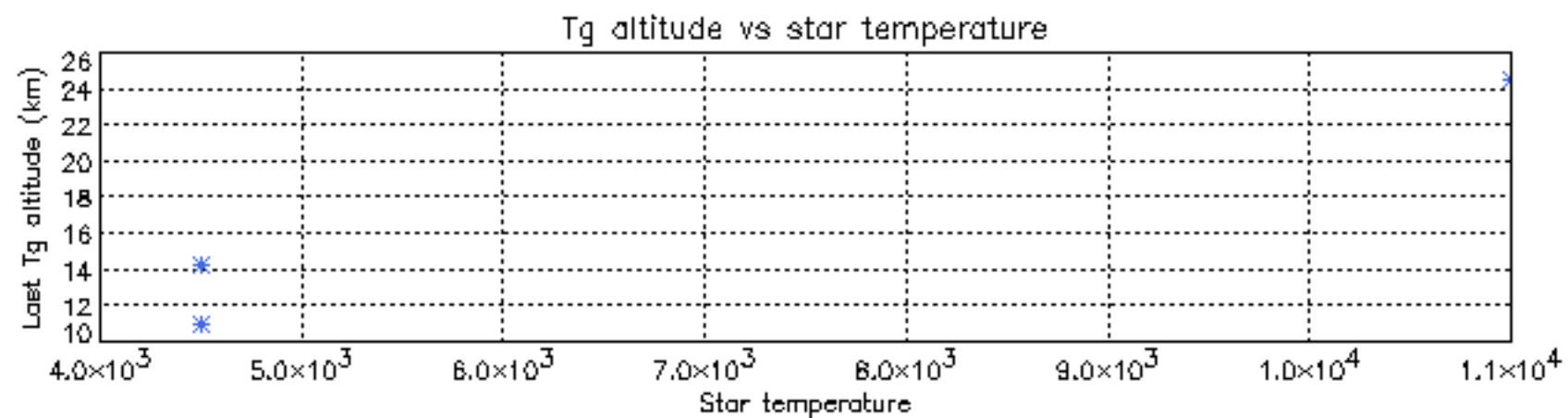
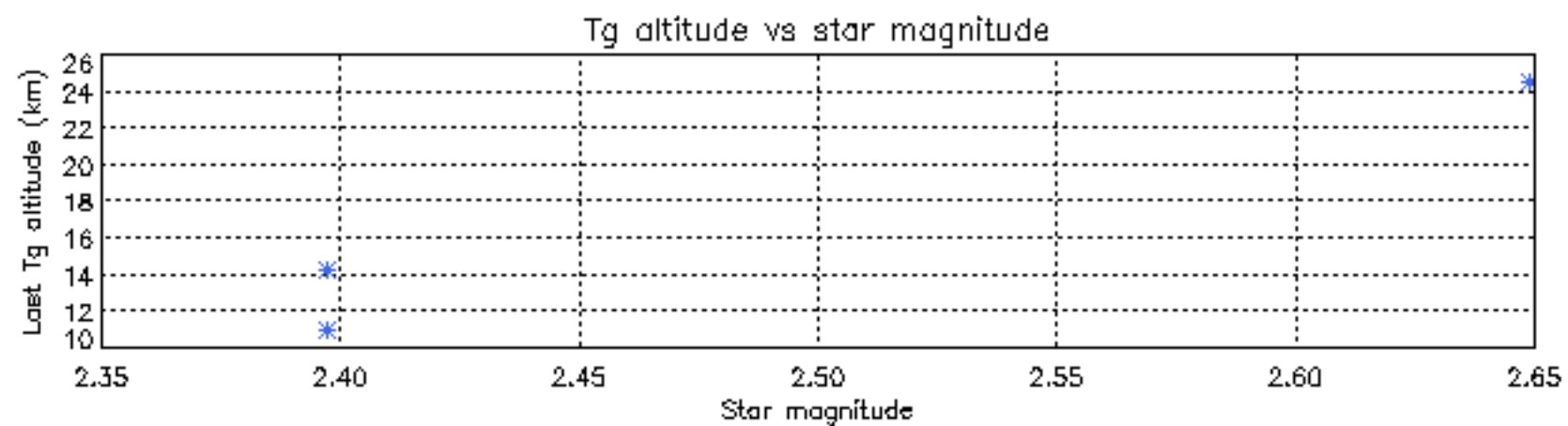
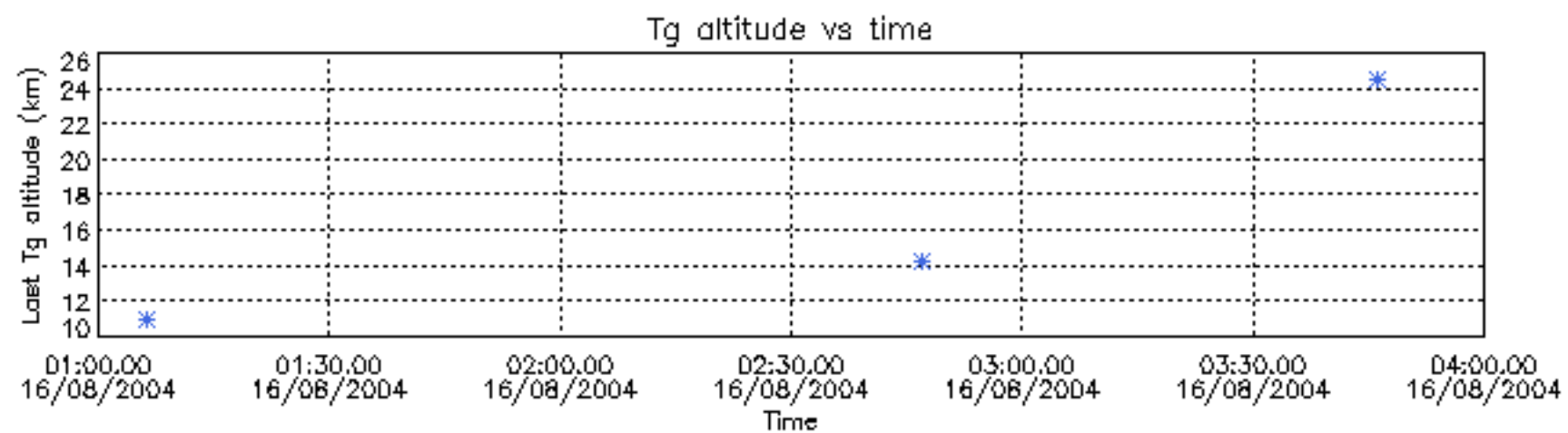
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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9;-2596.5; 02-AUG-2004 09:12:08; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;12672
10;-2456.3; 02-AUG-2004 09:14:28; Bright; 49.5; 76; 27Gam Cas ; 2.30; 30000;occ; 99; 0;12672
11;-2067.5; 02-AUG-2004 09:20:57; Bright; 50.5; 160; 23Gam Per ; 2.93; 4700;occ; 101; 0;12672
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13;-1736.6; 02-AUG-2004 09:26:28; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12672
14;-1392.8; 02-AUG-2004 09:32:12; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;12672
15;-1238.0; 02-AUG-2004 09:34:47; Dark ; 59.5; 13; 87Alp Tau ; 0.87; 3800;occ; 119; 0;12672
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19; -811.7; 02-AUG-2004 09:41:53; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;12672
20; -724.4; 02-AUG-2004 09:43:20; Dark ; 43.0; 101; 11Alp Lep ; 2.58; 7000;occ; 86; 0;12672
21; -566.9; 02-AUG-2004 09:45:58; Dark ; 59.5; 165; 34Gam Eri ; 2.95; 3200;occ; 119; 0;12672
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23; -2.0; 02-AUG-2004 09:55:23; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;12672
24; 322.3; 02-AUG-2004 10:00:47; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;12673
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27; 727.0; 02-AUG-2004 10:07:32; Dark ; 44.5; 148; Alp Tuc ; 2.88; 4100;occ; 89; 0;12673
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7;-2991.8; 02-AUG-2004 10:46:09; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;12673
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10;-2456.9; 02-AUG-2004 10:55:04; Bright; 48.5; 76; 27Gam Cas ; 2.30; 30000;occ; 97; 0;12673
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14;-1392.7; 02-AUG-2004 11:12:48; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;12673
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17;-1003.9; 02-AUG-2004 11:19:17; Dark ; 45.0; 30; 46Eps Ori ; 1.69; 30000;occ; 90; 0;12673
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19; -811.9; 02-AUG-2004 11:22:29; Dark ; 44.0; 1; 9Alp CMA ; -1.44; 11000;occ; 88; 0;12673
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21; -566.1; 02-AUG-2004 11:26:34; Dark ; 60.0; 165; 34Gam Eri ; 2.95; 3200;occ; 120; 0;12673
22; -284.7; 02-AUG-2004 11:31:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12673
23; -1.3; 02-AUG-2004 11:35:59; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;12673
24; 322.7; 02-AUG-2004 11:41:23; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;12674
25; 430.2; 02-AUG-2004 11:43:11; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12674
26; 617.6; 02-AUG-2004 11:46:18; Dark ; 59.5; 84; Alp Phe ; 2.40; 4500;occ; 119; 0;12674
27; 727.3; 02-AUG-2004 11:48:08; Dark ; 48.0; 148; Alp Tuc ; 2.88; 4100;occ; 96; 0;12674
28; 862.6; 02-AUG-2004 11:50:23; Dark ; 59.5; 63; Bet Gru ; 2.15; 2800;occ; 119; 0;12674
29; 1147.7; 02-AUG-2004 11:55:08; Dark ; 69.5; 18; 24Alp PsA ; 1.17; 9700;occ; 139; 0;12674
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31; 1570.4; 02-AUG-2004 12:02:11; Bright; 51.0; 142; 49Del Cap ; 2.85; 8900;occ; 102; 0;12674
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3;-3890.5; 02-AUG-2004 12:11:46; Bright; 37.0; 168; 17Zet Aql ; 2.99; 11000;occ; 74; 0;12674
4;-3465.4; 02-AUG-2004 12:18:51; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;12674
5;-3347.7; 02-AUG-2004 12:20:49; Bright; 38.0; 144; 18Del Cyg ; 2.86; 11000;occ; 76; 0;12674
6;-3235.8; 02-AUG-2004 12:22:41; Bright; 40.0; 69; 33Gam Dra ; 2.23; 3800;occ; 80; 0;12674
7;-2991.9; 02-AUG-2004 12:26:44; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;12674
8;-2744.7; 02-AUG-2004 12:30:52; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;12674
9;-2596.9; 02-AUG-2004 12:33:19; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;12674

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 12;-1896.2; 02-AUG-2004 12:45:00; Bright; 89.5; 73; 57Gam1And ; 2.26; 13100;occ; 179; 0;12674
 13;-1738.5; 02-AUG-2004 12:47:38; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12674
 14;-1392.8; 02-AUG-2004 12:53:24; Dark ; 42.5; 176; 23Zet Tau ; 3.02; 22000;occ; 85; 0;12674
 15;-1237.6; 02-AUG-2004 12:55:59; Dark ; 65.0; 13; 87Alp Tau ; 0.87; 3800;occ; 130; 0;12674
 16;-1119.8; 02-AUG-2004 12:57:57; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;12674
 17;-1003.7; 02-AUG-2004 12:59:53; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;12674
 18; -923.7; 02-AUG-2004 13:01:13; Dark ; 42.0; 125; 44Iot Ori ; 2.77; 30000;occ; 84; 0;12674
 19; -811.7; 02-AUG-2004 13:03:05; Dark ; 39.0; 1; 9Alp CMA ; -1.44; 11000;occ; 78; 0;12674
 20; -723.8; 02-AUG-2004 13:04:33; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;12674
 21; -565.1; 02-AUG-2004 13:07:11; Dark ; 58.0; 165; 34Gam Eri ; 2.95; 3200;occ; 116; 0;12674
 22; -283.9; 02-AUG-2004 13:11:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12674
 23; -0.3; 02-AUG-2004 13:16:36; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;12674
 24; 323.4; 02-AUG-2004 13:22:00; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;12675
 25; 430.4; 02-AUG-2004 13:23:47; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12675
 26; 617.4; 02-AUG-2004 13:26:54; Dark ; 60.0; 84; Alp Phe ; 2.40; 4500;occ; 120; 0;12675
 27; 727.7; 02-AUG-2004 13:28:44; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;12675
 28; 931.1; 02-AUG-2004 13:32:07; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;12675
 29; 1147.7; 02-AUG-2004 13:35:44; Dark ; 72.0; 18; 24Alp PsA ; 1.17; 9700;occ; 144; 0;12675
 30; 1416.2; 02-AUG-2004 13:40:13; Dark ; 50.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 101; 0;12675
 31; 1570.0; 02-AUG-2004 13:42:46; Bright; 1.5; 142; 49Del Cap ; 2.85; 8900;occ; 3; 0;12675

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Problem occurred when reading packet number 991!

Problem occurred when reading packet number 3241!

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 3;-3979.8; 02-AUG-2004 13:50:52; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;12675
 4;-3891.0; 02-AUG-2004 13:52:21; Bright; 36.5; 168; 17Zet Aql ; 2.99; 11000;occ; 73; 0;12675
 5;-3465.1; 02-AUG-2004 13:59:27; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;12675
 6;-3347.6; 02-AUG-2004 14:01:25; Bright; 38.0; 144; 18Del Cyg ; 2.86; 11000;occ; 76; 0;12675
 7;-3235.4; 02-AUG-2004 14:03:17; Bright; 41.0; 69; 33Gam Dra ; 2.23; 3800;occ; 82; 0;12675
 8;-2991.4; 02-AUG-2004 14:07:21; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;12675
 9;-2743.8; 02-AUG-2004 14:11:28; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;12675
 10;-2596.7; 02-AUG-2004 14:13:56; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;12675
 11;-2458.3; 02-AUG-2004 14:16:14; Bright; 50.5; 76; 27Gam Cas ; 2.30; 30000;occ; 101; 0;12675
 12;-2067.8; 02-AUG-2004 14:22:45; Bright; 316.0; 160; 23Gam Per ; 2.93; 4700;occ; 632; 547;12675
 13;-144771048.8; 01-JAN-2000 00:46:23; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98; 90;12675
 14;-144770922.2; 01-JAN-2000 00:48:30; Bright; 87.0; 73; 57Gam1And ; 2.26; 13100;occ; 174; 0;12675
 15;-144770764.8; 01-JAN-2000 00:51:07; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12675
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 17;-144770262.1; 01-JAN-2000 00:59:30; Dark ; 65.0; 13; 87Alp Tau ; 0.87; 3800;occ; 130; 0;12675
 18;-144770143.1; 01-JAN-2000 01:01:29; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;12675
 19;-144770028.3; 01-JAN-2000 01:03:24; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;12675
 20;-144769948.4; 01-JAN-2000 01:04:44; Dark ; 39.0; 125; 44Iot Ori ; 2.77; 30000;occ; 78; 0;12675
 21;-144769836.0; 01-JAN-2000 01:06:36; Dark ; 45.0; 1; 9Alp CMA ; -1.44; 11000;occ; 90; 0;12675
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 23;-144769601.1; 01-JAN-2000 01:10:31; Dark ; 39.5; 177; 1Zet CMA ; 3.02; 26000;occ; 79; 0;12675
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 26;-144769024.4; 01-JAN-2000 01:20:08; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;12675
 27;-144768701.3; 01-JAN-2000 01:25:31; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;12675
 28;-144768594.9; 01-JAN-2000 01:27:17; Dark ; 41.0; 135; Bet Hyi ; 2.82; 5800;occ; 82; 0;12675
 29;-144768406.0; 01-JAN-2000 01:30:26; Dark ; 65.0; 84; Alp Phe ; 2.40; 4500;occ; 130; 0;12675
 30;-144768297.3; 01-JAN-2000 01:32:15; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;12675
 31;-144768092.7; 01-JAN-2000 01:35:40; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 15;12675
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 2;-4465.4; 02-AUG-2004 15:23:23; Bright; 53.5; 142; 49Del Cap ; 2.85; 8900;occ; 107; 0;12676
 3;-4219.2; 02-AUG-2004 15:27:29; Bright; 53.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 106; 0;12676
 4;-3980.2; 02-AUG-2004 15:31:28; Bright; 39.5; 11; 53Alp Aql ; 0.76; 8000;occ; 79; 0;12676
 5;-3892.0; 02-AUG-2004 15:32:56; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76; 0;12676
 6;-3465.5; 02-AUG-2004 15:40:03; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;12676
 7;-3348.0; 02-AUG-2004 15:42:00; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;12676
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 9;-2991.6; 02-AUG-2004 15:47:57; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;12676

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10;-2744.2; 02-AUG-2004 15:52:04; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;12676
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27; 324.7; 02-AUG-2004 16:43:13; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;12677
28; 430.4; 02-AUG-2004 16:44:59; Dark ; 41.5; 135; Bet Hyi ; 2.82; 5800;occ; 83; 0;12677
29; 620.5; 02-AUG-2004 16:48:09; Dark ; 57.0; 84; Alp Phe ; 2.40; 4500;occ; 114; 0;12677
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31; 931.9; 02-AUG-2004 16:53:20; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;12677
32; 1149.6; 02-AUG-2004 16:56:58; Dark ; 22.0; 18; 24Alp PsA ; 1.17; 9700;occ; 44; 0;12677
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12;-2257.9; 23-AUG-2004 13:19:11; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;12975
13;-2107.6; 23-AUG-2004 13:21:41; Bright; 62.5; 35; 33Alp Per ; 1.79; 6250;occ; 125; 0;12975
14;-1809.6; 23-AUG-2004 13:26:39; Dark ; 255.0; 173; 4Bet Tri ; 3.00; 8900;occ; 510; 0;12975
15;-1460.4; 23-AUG-2004 13:32:28; Dark ; 59.0; 28; 12Bet Tau ; 1.65; 15200;occ; 118; 0;12975

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16;	-1286.0;	23-AUG-2004	13:35:23;	Dark	;	42.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	84;	0;	12975
17;	-1194.6;	23-AUG-2004	13:36:54;	Dark	;	38.5;	153;	3Bet	CMi	;	2.89;	13100;	occ;	77;	0;	12975
18;	-1049.9;	23-AUG-2004	13:39:19;	Dark	;	60.5;	14;	58Alp	Ori	;	0.87;	3000;	occ;	121;	0;	12975
19;	-953.0;	23-AUG-2004	13:40:56;	Dark	;	63.5;	27;	24Gam	Ori	;	1.64;	26000;	occ;	127;	0;	12975
20;	-836.6;	23-AUG-2004	13:42:52;	Dark	;	56.5;	30;	46Eps	Ori	;	1.69;	30000;	occ;	113;	0;	12975
21;	-725.2;	23-AUG-2004	13:44:43;	Dark	;	51.0;	1;	9Alp	CMa	;	-1.44;	11000;	occ;	102;	0;	12975
22;	-631.1;	23-AUG-2004	13:46:18;	Dark	;	63.0;	7;	19Bet	Ori	;	0.10;	14000;	occ;	126;	0;	12975
23;	-422.9;	23-AUG-2004	13:49:46;	Dark	;	42.0;	70;	Zet	Pup	;	2.25;	39000;	occ;	84;	0;	12975
24;	-312.8;	23-AUG-2004	13:51:36;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	12975
25;	-139.5;	23-AUG-2004	13:54:29;	Dark	;	53.0;	2;	Alp	Car	;	-0.74;	7000;	occ;	106;	0;	12975
26;	341.8;	23-AUG-2004	14:02:30;	Dark	;	55.5;	157;	The1Eri		;	2.91;	9300;	occ;	111;	0;	12976
27;	528.5;	23-AUG-2004	14:05:37;	Dark	;	48.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	96;	0;	12976
28;	832.7;	23-AUG-2004	14:10:41;	Dark	;	41.5;	148;	Alp	Tuc	;	2.88;	4100;	occ;	83;	0;	12976
29;	971.1;	23-AUG-2004	14:13:00;	Dark	;	43.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	87;	0;	12976
30;	1050.8;	23-AUG-2004	14:14:19;	Dark	;	42.5;	31;	Alp	Gru	;	1.73;	15200;	occ;	85;	0;	12976
31;	1292.1;	23-AUG-2004	14:18:21;	Dark	;	53.0;	18;	24Alp	PsA	;	1.17;	9700;	occ;	106;	0;	12976