

GOMOS Daily Report 22-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	23AUG2004 05:03:42
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START) (22AUG2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (23AUG2004 00:00:00)

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

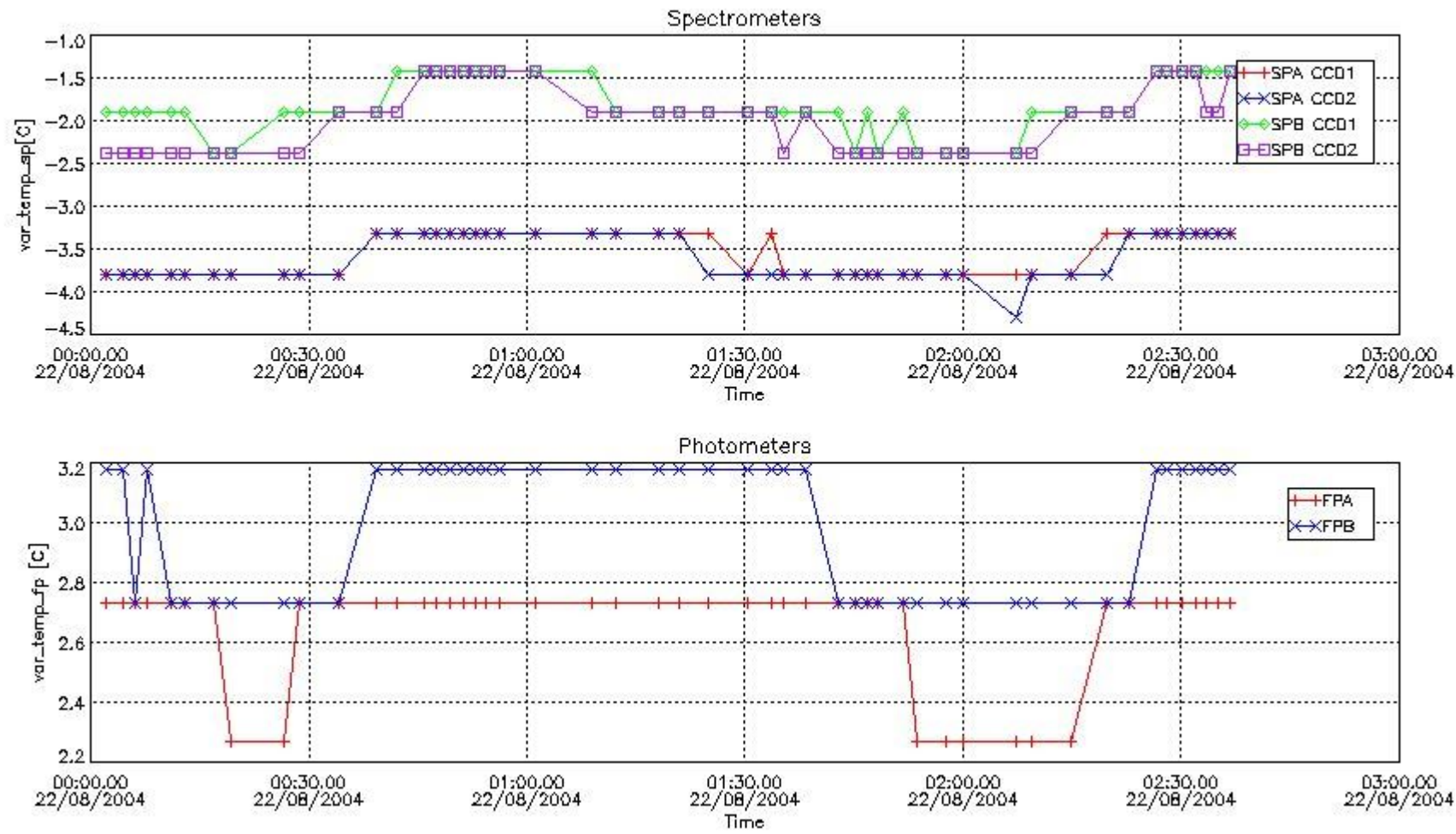
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040822_000211_000000612029_00374_12953_0013.N1	22-AUG-2004 00:02:11	Bright	60.500	90	54Alp Peg	2.4870	11000.	121	12953	No
GOM_TRA_1PNPDE20040822_000430_000000402029_00374_12953_0014.N1	22-AUG-2004 00:04:30	Bright	40.000	92	53Eps Cyg	2.5000	4500.0	80	12953	No
GOM_TRA_1PNPDE20040822_000613_000000372029_00374_12953_0015.N1	22-AUG-2004 00:06:13	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	12953	No
GOM_TRA_1PNPDE20040822_000740_000000372029_00374_12953_0016.N1	22-AUG-2004 00:07:40	Bright	36.500	144	18Del Cyg	2.8600	11000.	73	12953	No
GOM_TRA_1PNPDE20040822_001108_000000422029_00374_12953_0017.N1	22-AUG-2004 00:11:08	Bright	41.500	69	33Gam Dra	2.2310	3800.0	83	12953	No
GOM_TRA_1PNPDE20040822_001256_000000402029_00374_12953_0018.N1	22-AUG-2004 00:12:56	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	12953	No
GOM_TRA_1PNPDE20040822_001700_000000482029_00374_12953_0019.N1	22-AUG-2004 00:17:00	Bright	48.000	74	11Bet Cas	2.2680	6600.0	96	12953	No
GOM_TRA_1PNPDE20040822_001917_000000402029_00374_12953_0020.N1	22-AUG-2004 00:19:17	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	12953	No
GOM_TRA_1PNPDE20040822_002640_000000562029_00374_12953_0021.N1	22-AUG-2004 00:26:40	Bright	55.500	160	23Gam Per	2.9300	4700.0	111	12953	No
GOM_TRA_1PNPDE20040822_002845_000000622029_00374_12953_0022.N1	22-AUG-2004 00:28:45	Bright	61.500	35	33Alp Per	1.7950	6250.0	123	12953	No
GOM_TRA_1PNPDE20040822_003412_000002552029_00374_12953_0023.N1	22-AUG-2004 00:34:12	Twilight	255.00	173	4Bet Tri	3.0040	8900.0	510	12953	No
GOM_TRA_1PNPDE20040822_003912_000000592029_00374_12953_0024.N1	22-AUG-2004 00:39:12	Twilight	58.500	28	12Bet Tau	1.6500	15200.	117	12953	No
GOM_TRA_1PNPDE20040822_004206_000000492029_00374_12953_0025.N1	22-AUG-2004 00:42:06	Twilight	49.000	44	24Gam Gem	1.9280	11000.	98	12953	No
GOM_TRA_1PNPDE20040822_004556_000000642029_00374_12953_0026.N1	22-AUG-2004 00:45:56	Twilight	64.000	14	58Alp Ori	0.87000	3000.0	128	12953	No
GOM_TRA_1PNPDE20040822_004727_000000642029_00374_12953_0027.N1	22-AUG-2004 00:47:27	Dark	63.500	27	24Gam Ori	1.6360	26000.	127	12953	No
GOM_TRA_1PNPDE20040822_004925_000000582029_00374_12953_0028.N1	22-AUG-2004 00:49:25	Dark	57.500	30	46Eps Ori	1.6940	30000.	115	12953	No
GOM_TRA_1PNPDE20040822_005123_000000542029_00374_12953_0029.N1	22-AUG-2004 00:51:23	Dark	54.000	1	9Alp CMa	-1.4400	11000.	108	12953	No
GOM_TRA_1PNPDE20040822_005253_000000432029_00374_12953_0000.N1	22-AUG-2004 00:52:53	Dark	43.000	179	24Omi2CMa	3.0320	24000.	86	12953	No
GOM_TRA_1PNPDE20040822_005421_000000462029_00374_12953_0001.N1	22-AUG-2004 00:54:21	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	12953	No
GOM_TRA_1PNPDE20040822_005609_000000462029_00374_12953_0002.N1	22-AUG-2004 00:56:09	Dark	46.000	117	Pi Pup	2.7060	3800.0	92	12953	No
GOM_TRA_1PNPDE20040822_010110_000000452029_00374_12953_0003.N1	22-AUG-2004 01:01:10	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	12953	No
GOM_TRA_1PNPDE20040822_010852_000000562029_00375_12954_0004.N1	22-AUG-2004 01:08:52	Dark	55.500	157	The1Eri	2.9060	9300.0	111	12954	No
GOM_TRA_1PNPDE20040822_011212_000000532029_00375_12954_0005.N1	22-AUG-2004 01:12:12	Dark	52.500	9	Alp Eri	0.45300	24000.	105	12954	No
GOM_TRA_1PNPDE20040822_011807_000000582029_00375_12954_0006.N1	22-AUG-2004 01:18:07	Twilight	57.500	84	Alp Phe	2.3970	4500.0	115	12954	No
GOM_TRA_1PNPDE20040822_012101_000000452029_00375_12954_0007.N1	22-AUG-2004 01:21:01	Bright	45.000	31	Alp Gru	1.7340	15200.	90	12954	No
GOM_TRA_1PNPDE20040822_012502_000000532029_00375_12954_0008.N1	22-AUG-2004 01:25:02	Bright	52.500	18	24Alp PsA	1.1660	9700.0	105	12954	No
GOM_TRA_1PNPDE20040822_013016_000000462029_00375_12954_0009.N1	22-AUG-2004 01:30:16	Bright	46.000	142	49Del Cap	2.8500	8900.0	92	12954	No
GOM_TRA_1PNPDE20040822_013336_000000422029_00375_12954_0010.N1	22-AUG-2004 01:33:36	Bright	41.500	154	22Bet Aqr	2.8990	5700.0	83	12954	No
GOM_TRA_1PNPDE20040822_013522_000000472029_00375_12954_0011.N1	22-AUG-2004 01:35:22	Bright	46.500	162	34Alp Aqr	2.9440	5350.0	93	12954	No
GOM_TRA_1PNPDE20040822_013814_000000392029_00375_12954_0012.N1	22-AUG-2004 01:38:14	Bright	39.000	11	53Alp Aql	0.76500	8000.0	78	12954	No
GOM_TRA_1PNPDE20040822_014246_000000582029_00375_12954_0013.N1	22-AUG-2004 01:42:46	Bright	58.000	90	54Alp Peg	2.4870	11000.	116	12954	No
GOM_TRA_1PNPDE20040822_014506_000000402029_00375_12954_0014.N1	22-AUG-2004 01:45:06	Bright	39.500	92	53Eps Cyg	2.5000	4500.0	79	12954	No
GOM_TRA_1PNPDE20040822_014649_000000402029_00375_12954_0015.N1	22-AUG-2004 01:46:49	Bright	39.500	66	37Gam Cyg	2.2080	5900.0	79	12954	No
GOM_TRA_1PNPDE20040822_014816_000000402029_00375_12954_0016.N1	22-AUG-2004 01:48:16	Bright	39.500	144	18Del Cyg	2.8600	11000.	79	12954	No
GOM_TRA_1PNPDE20040822_015145_000000372029_00375_12954_0017.N1	22-AUG-2004 01:51:45	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	12954	No
GOM_TRA_1PNPDE20040822_015332_000000392029_00375_12954_0018.N1	22-AUG-2004 01:53:32	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	12954	No
GOM_TRA_1PNPDE20040822_015735_000000492029_00375_12954_0019.N1	22-AUG-2004 01:57:35	Bright	49.000	74	11Bet Cas	2.2680	6600.0	98	12954	No
GOM_TRA_1PNPDE20040822_015953_000000392029_00375_12954_0020.N1	22-AUG-2004 01:59:53	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	12954	No
GOM_TRA_1PNPDE20040822_020715_000000582029_00375_12954_0000.N1	22-AUG-2004 02:07:15	Bright	58.000	160	23Gam Per	2.9300	4700.0	116	12954	No
GOM_TRA_1PNPDE20040822_020920_000000612029_00375_12954_0001.N1	22-AUG-2004 02:09:20	Bright	61.000	35	33Alp Per	1.7950	6250.0	122	12954	No
GOM_TRA_1PNPDE20040822_021446_000002552029_00375_12954_0002.N1	22-AUG-2004 02:14:46	Twilight	255.00	173	4Bet Tri	3.0040	8900.0	510	12954	No
GOM_TRA_1PNPDE20040822_021948_000000622029_00375_12954_0003.N1	22-AUG-2004 02:19:48	Twilight	62.000	28	12Bet Tau	1.6500	15200.	124	12954	No
GOM_TRA_1PNPDE20040822_022242_000000482029_00375_12954_0004.N1	22-AUG-2004 02:22:42	Twilight	48.000	44	24Gam Gem	1.9280	11000.	96	12954	No
GOM_TRA_1PNPDE20040822_022632_000000592029_00375_12954_0005.N1	22-AUG-2004 02:26:32	Twilight	58.500	14	58Alp Ori	0.87000	3000.0	117	12954	No
GOM_TRA_1PNPDE20040822_022803_000000652029_00375_12954_0006.N1	22-AUG-2004 02:28:03	Dark	64.500	27	24Gam Ori	1.6360	26000.	129	12954	No
GOM_TRA_1PNPDE20040822_023002_000000582029_00375_12954_0007.N1	22-AUG-2004 02:30:02	Dark	58.000	30	46Eps Ori	1.6940	30000.	116	12954	No
GOM_TRA_1PNPDE20040822_023200_000000532029_00375_12954_0008.N1	22-AUG-2004 02:32:00	Dark	52.500	1	9Alp CMa	-1.4400	11000.	105	12954	No
GOM_TRA_1PNPDE20040822_023329_000000432029_00375_12954_0009.N1	22-AUG-2004 02:33:29	Dark	42.500	179	24Omi2CMa	3.0320	24000.	85	12954	No
GOM_TRA_1PNPDE20040822_023457_000000432029_00375_12954_0010.N1	22-AUG-2004 02:34:57	Dark	43.000	23	21Eps CMa	1.5020	26000.	86	12954	No

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



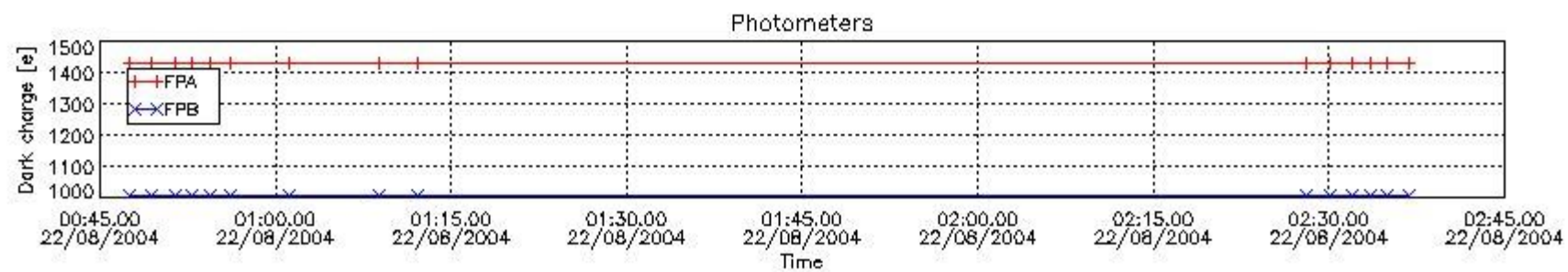
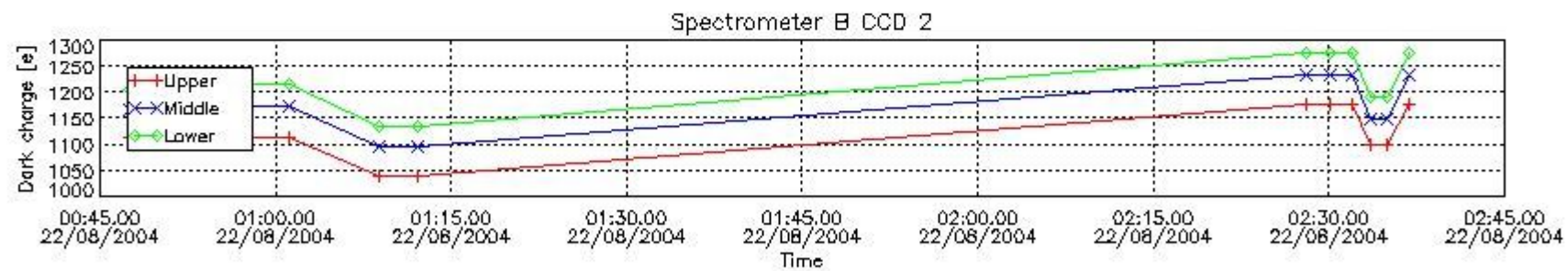
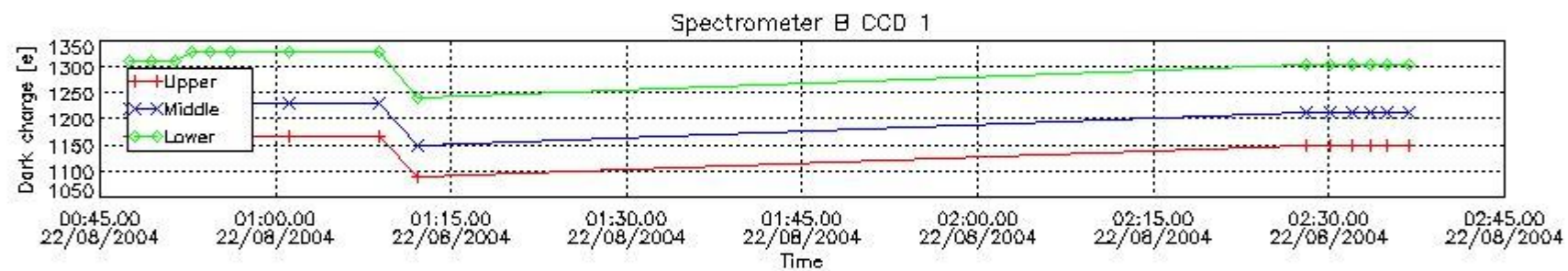
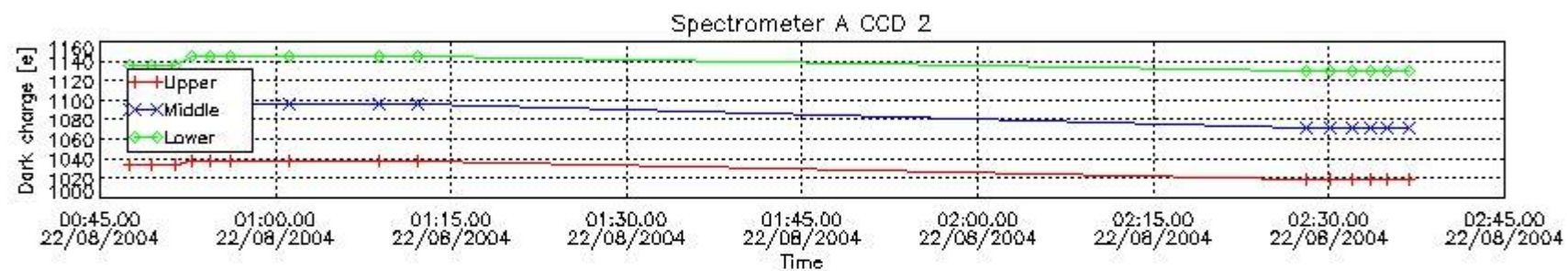
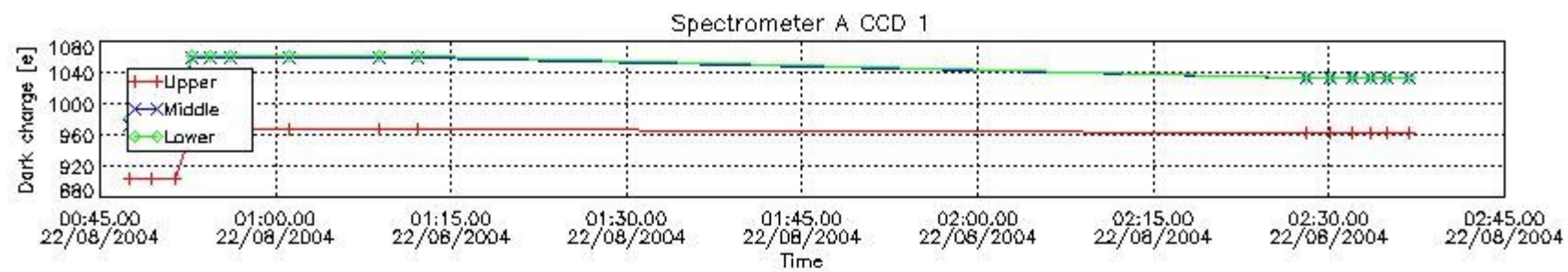
4. Overview of dark signal processing per product

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



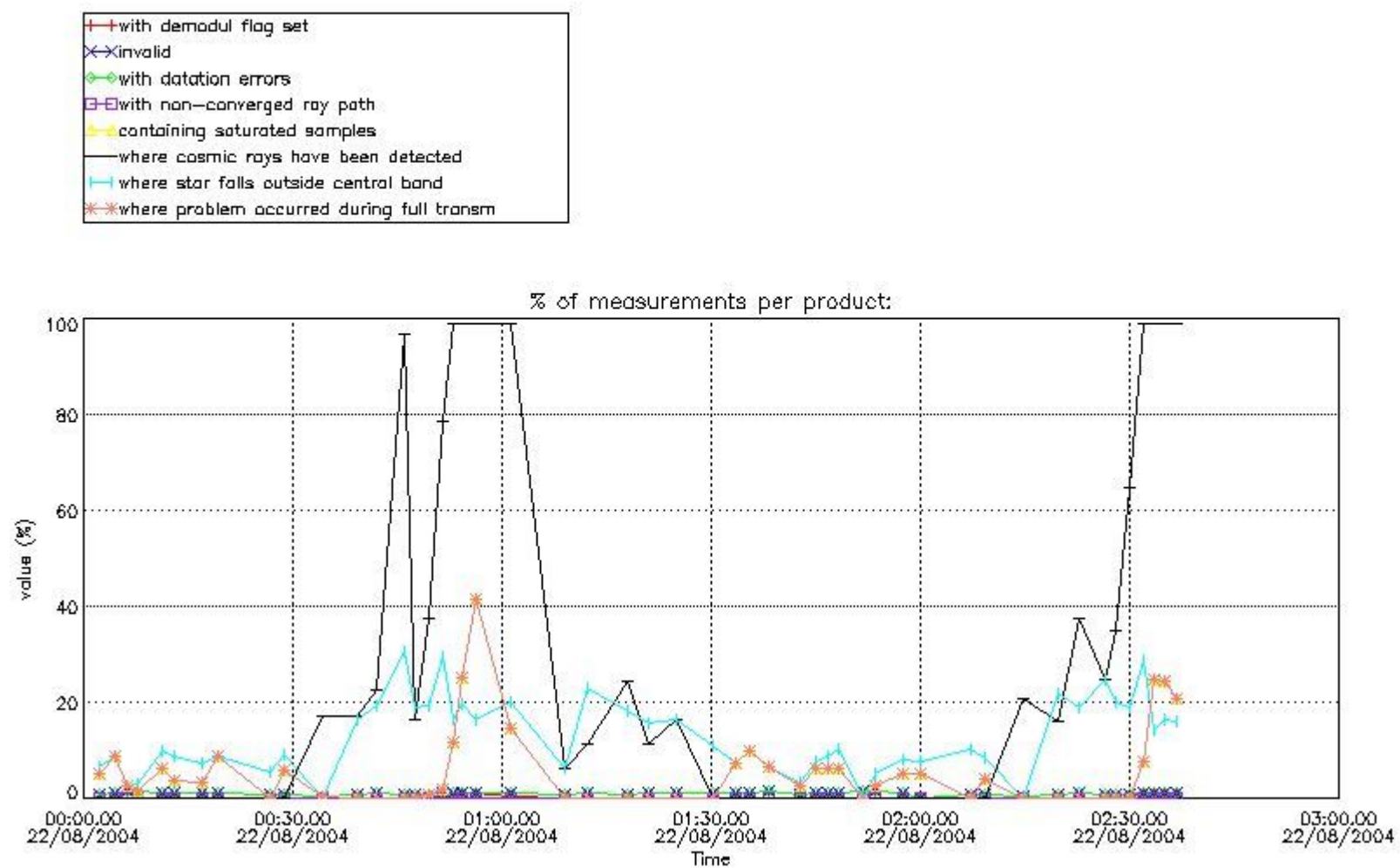
5. Demodulation flag and quality information monitoring

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.

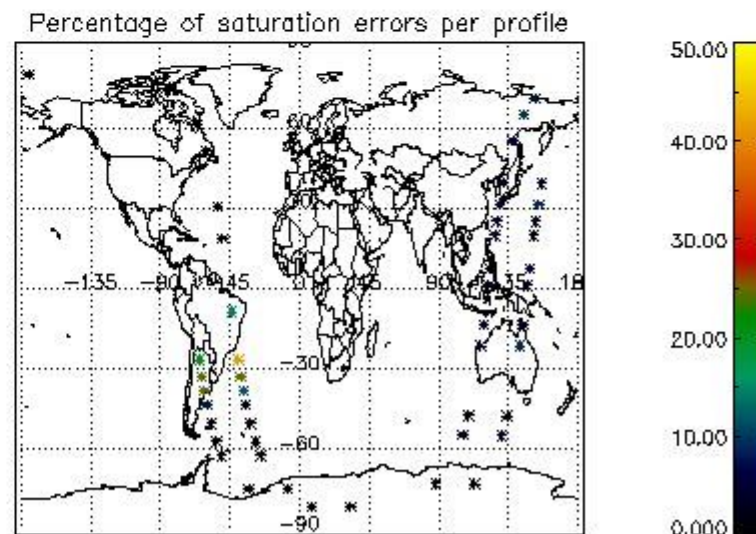
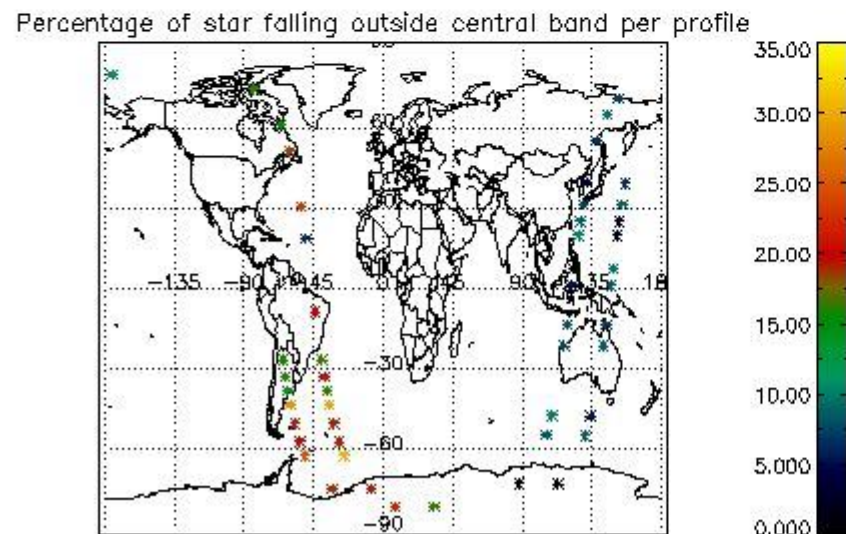
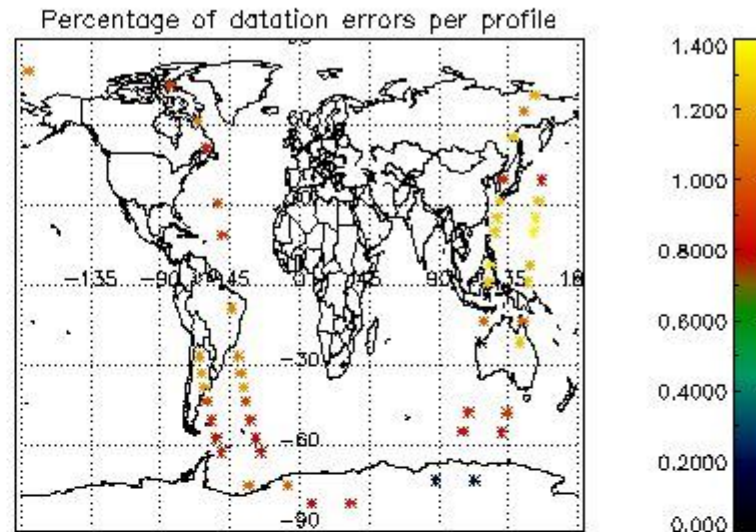
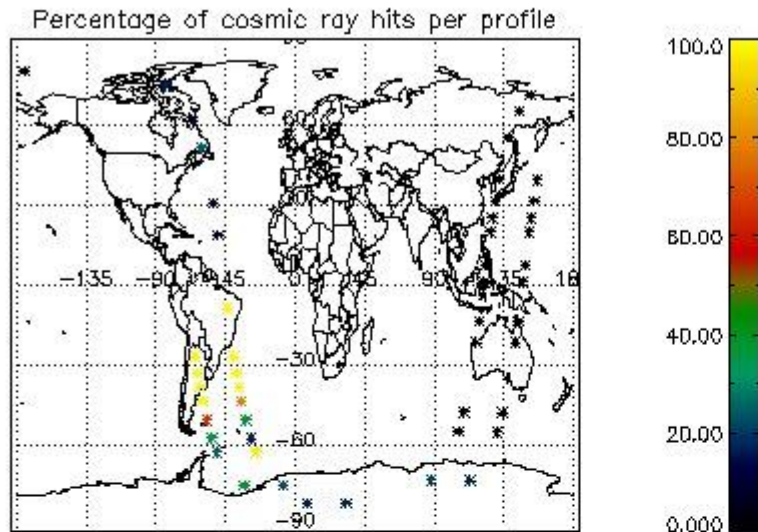
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.0000 %
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)



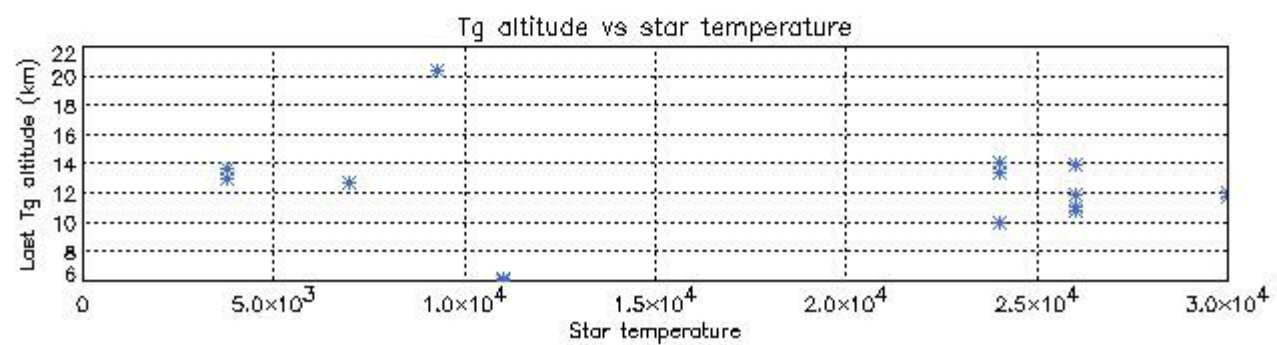
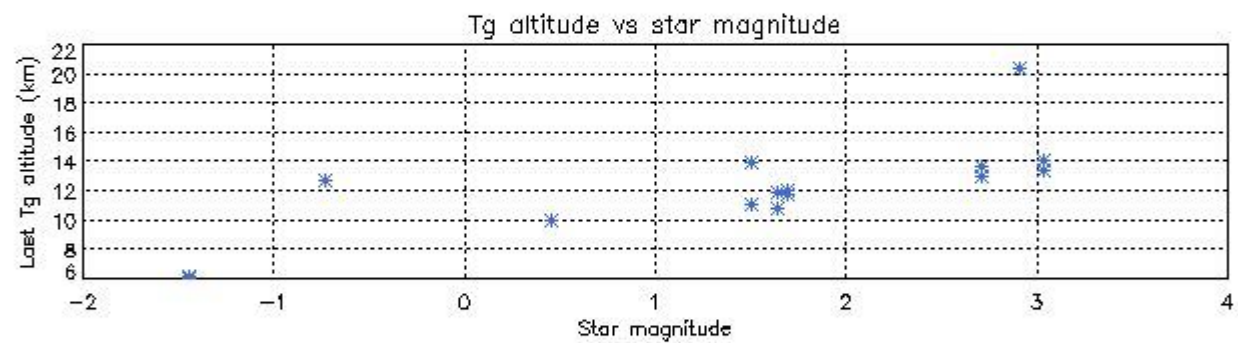
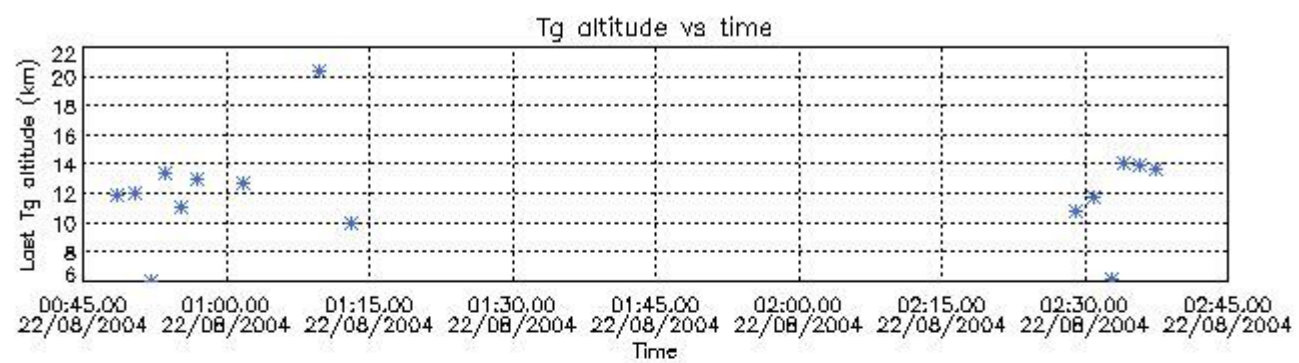
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.055	19.566	20.590
St. deviation:	3.3821	2.6372	19.958
Maximum:	20.412	25.171	55.630
Minimum:	6.0483	13.359	5.8812
Number of data:	15.000	26.000	9.0000

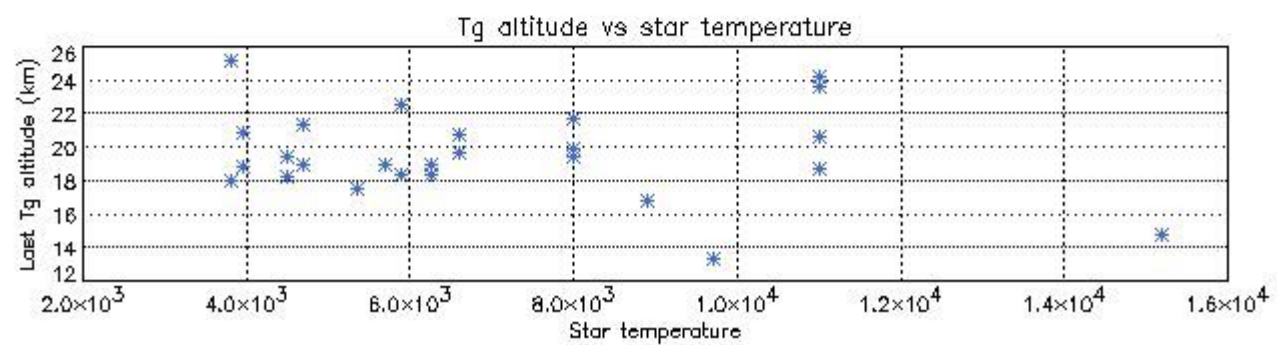
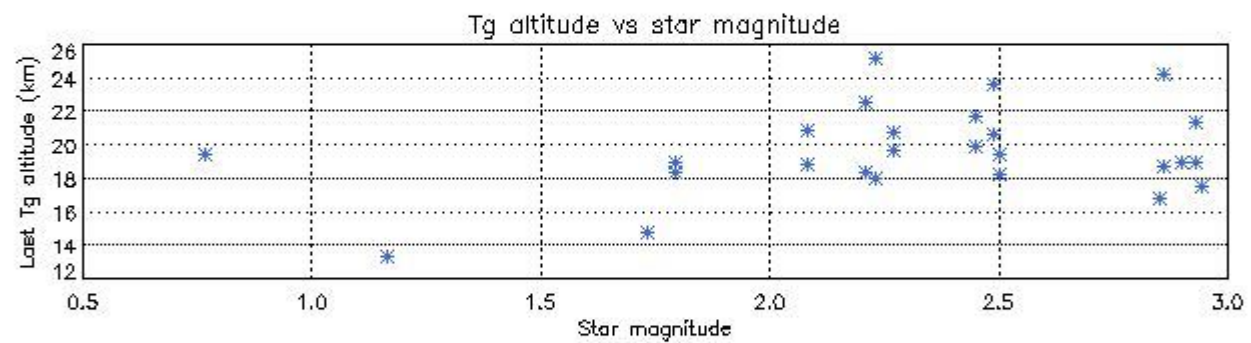
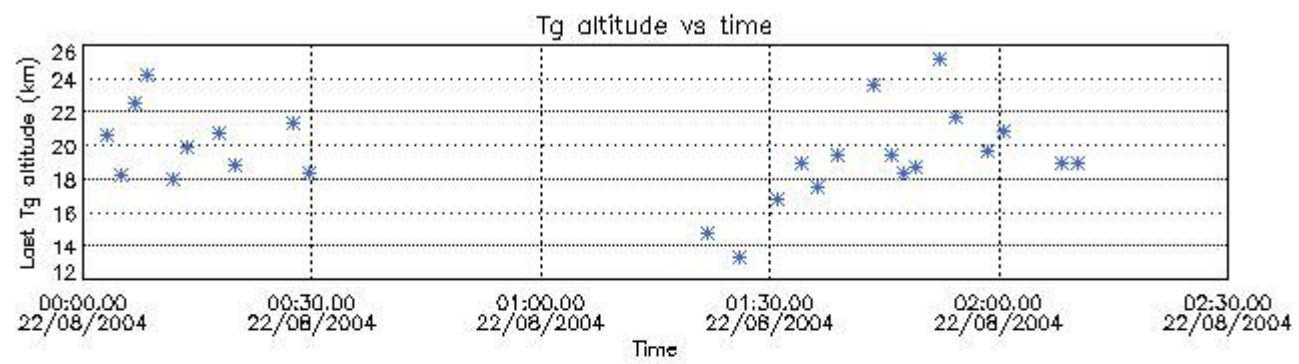
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



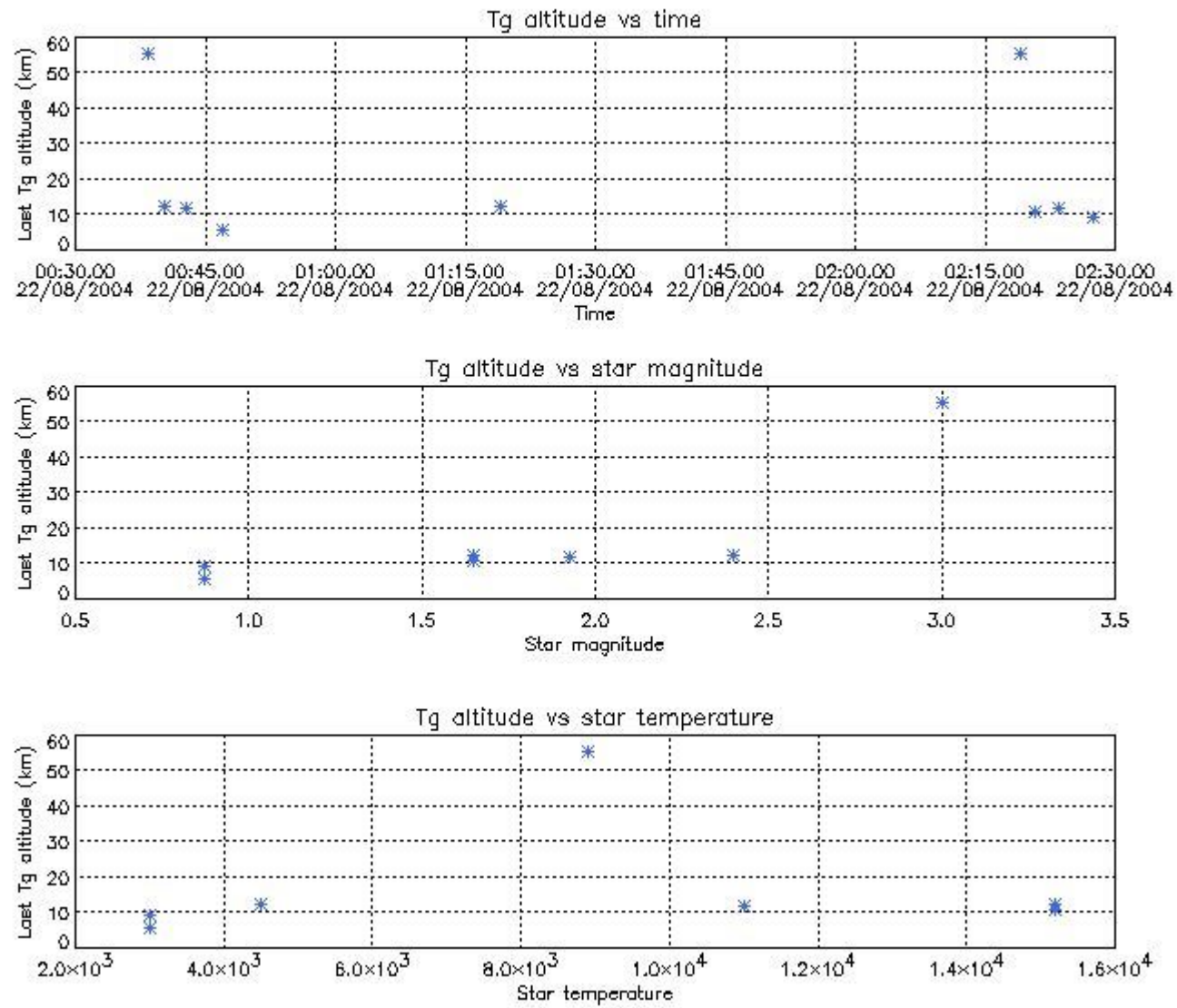
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

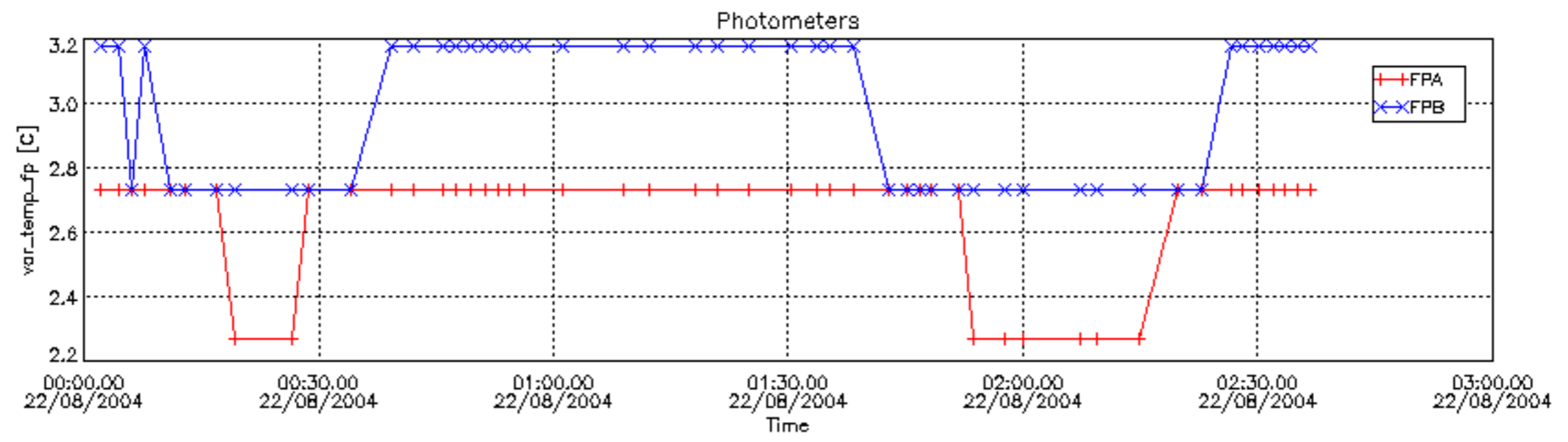
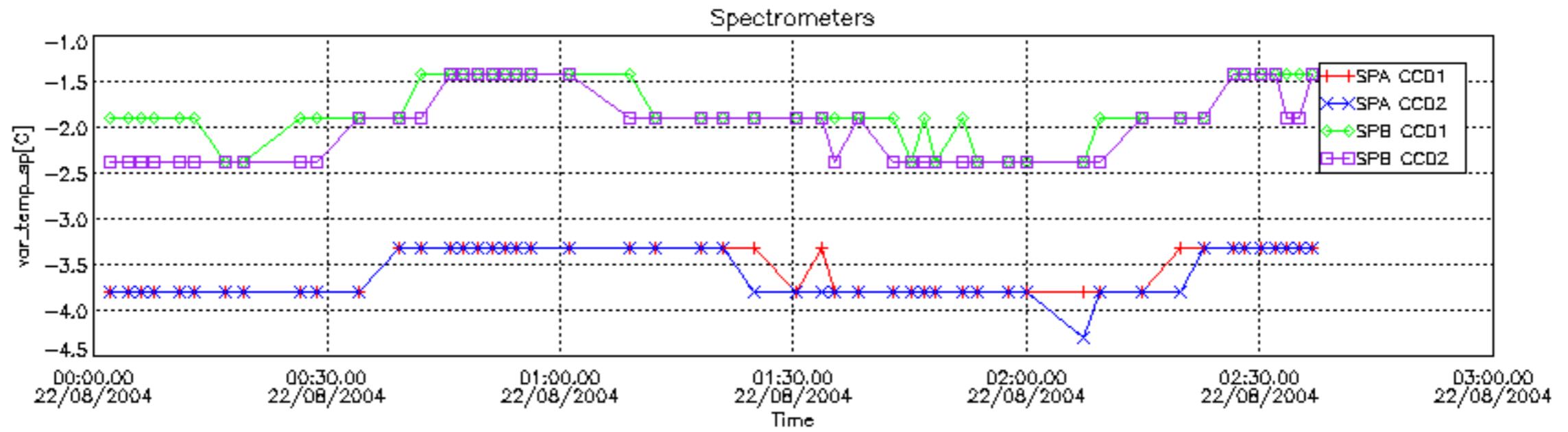
Tangent altitude at which the star is lost

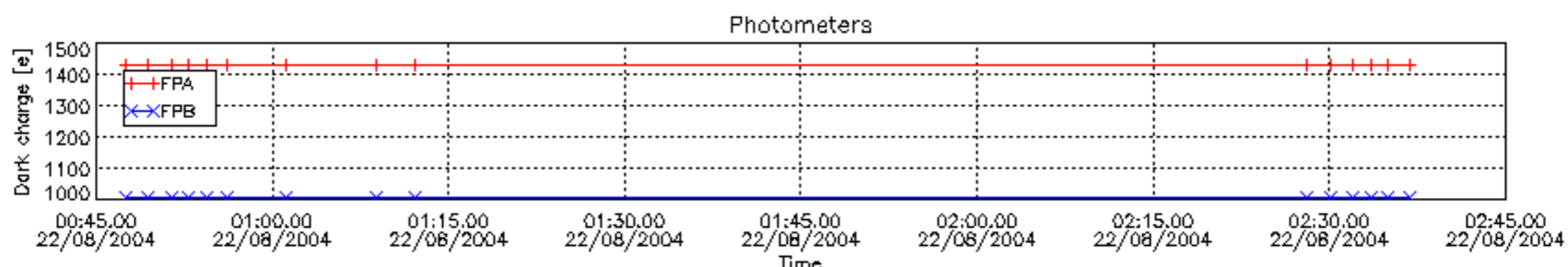
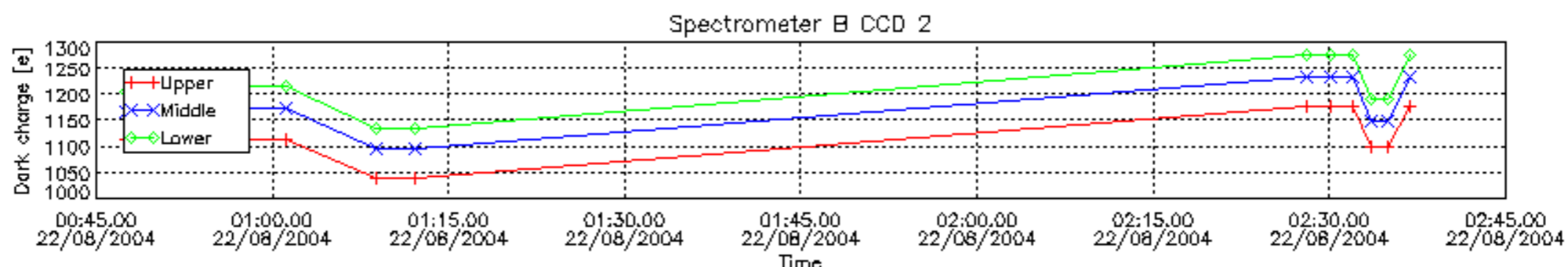
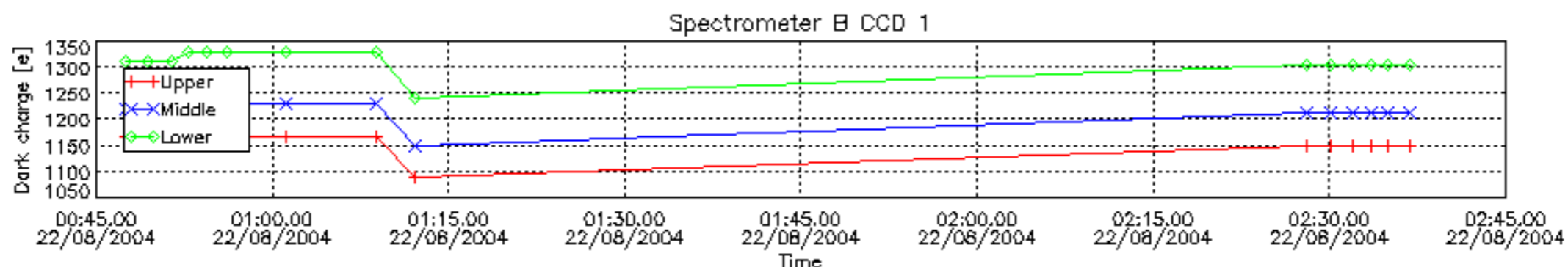
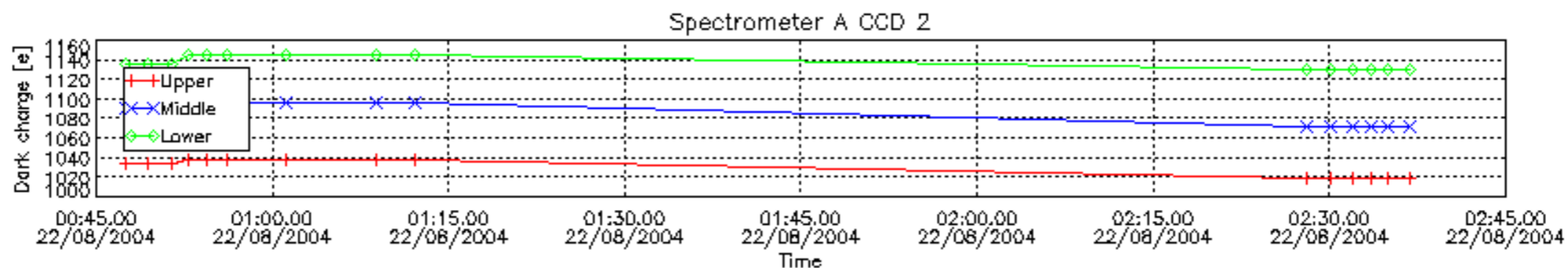
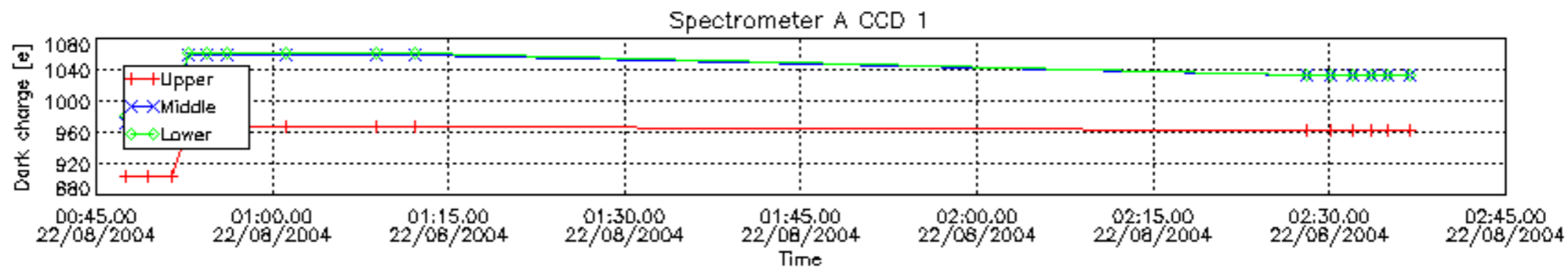


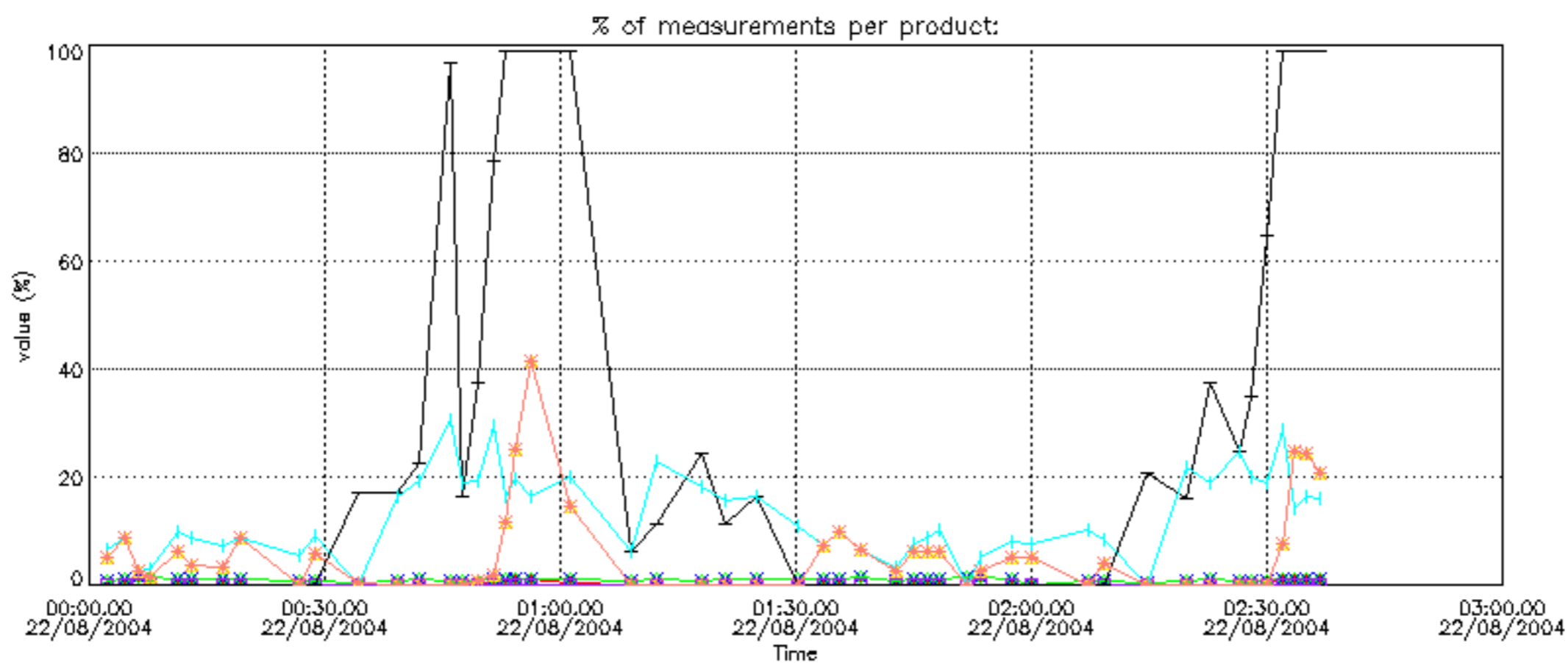
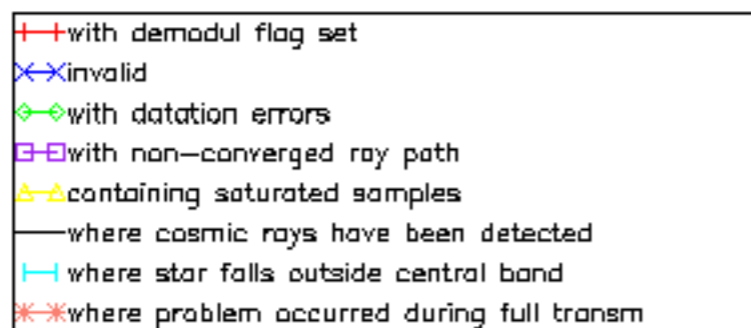
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

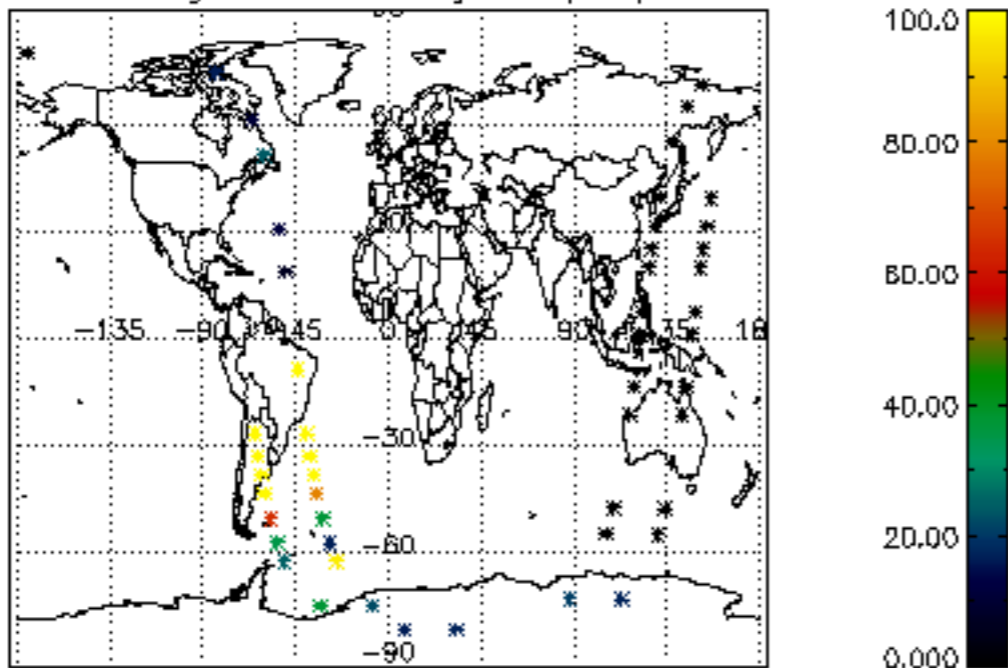
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.0	1446.5	1461.6	1447.2
St. deviation:	4.8694	6.1578	6.7799	7.3679
Maximum:	1504.0	1501.0	1506.0	1490.0
Minimum:	1449.0	1426.0	1441.0	1436.0
Number of data:	18700.	18700.	31000.	31000.



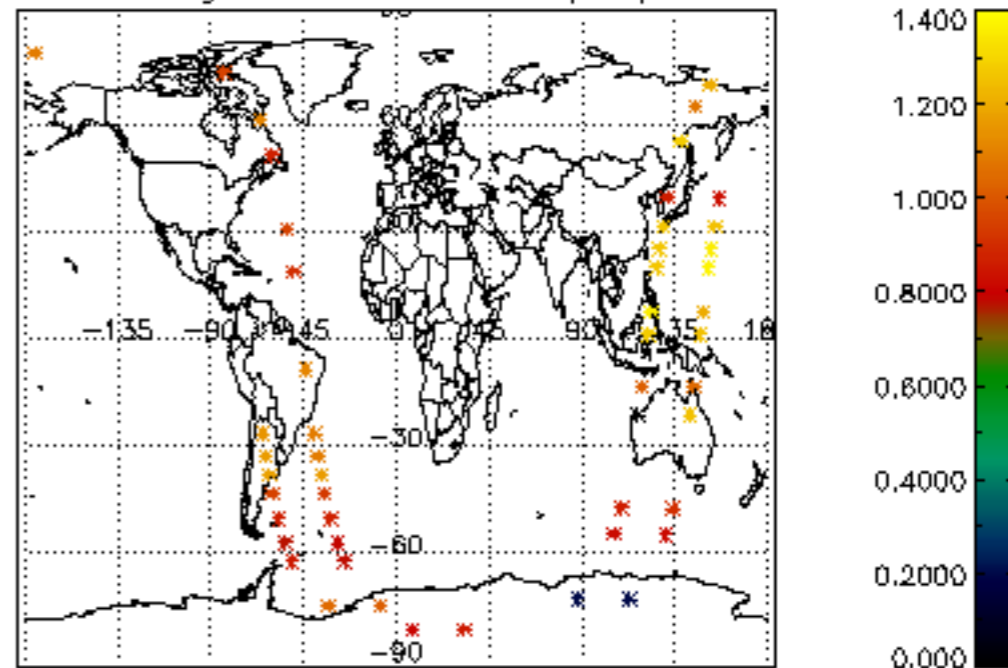




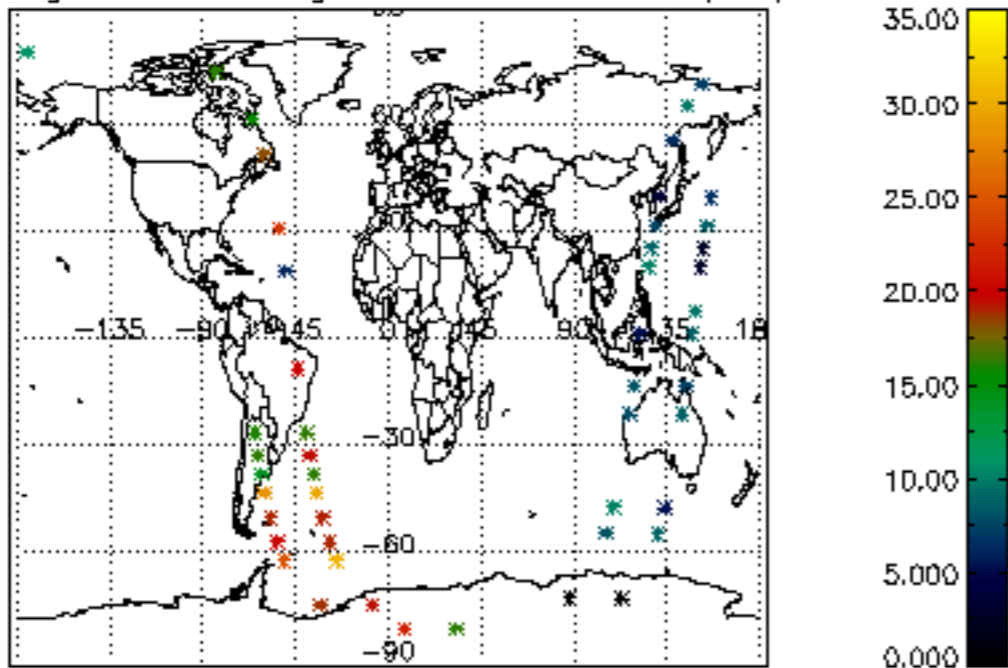
Percentage of cosmic ray hits per profile



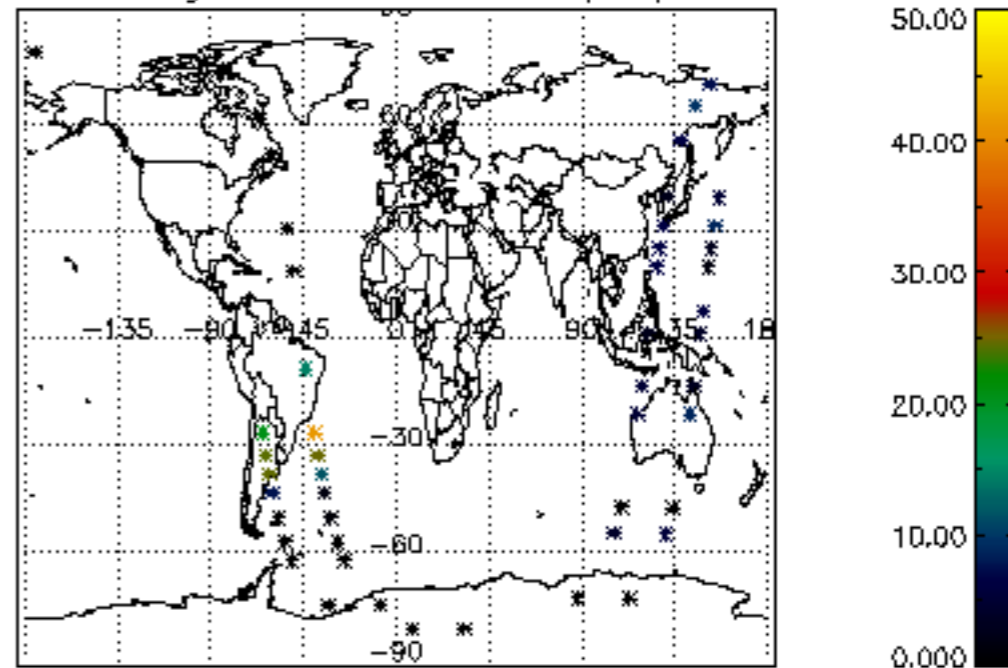
Percentage of datation errors per profile



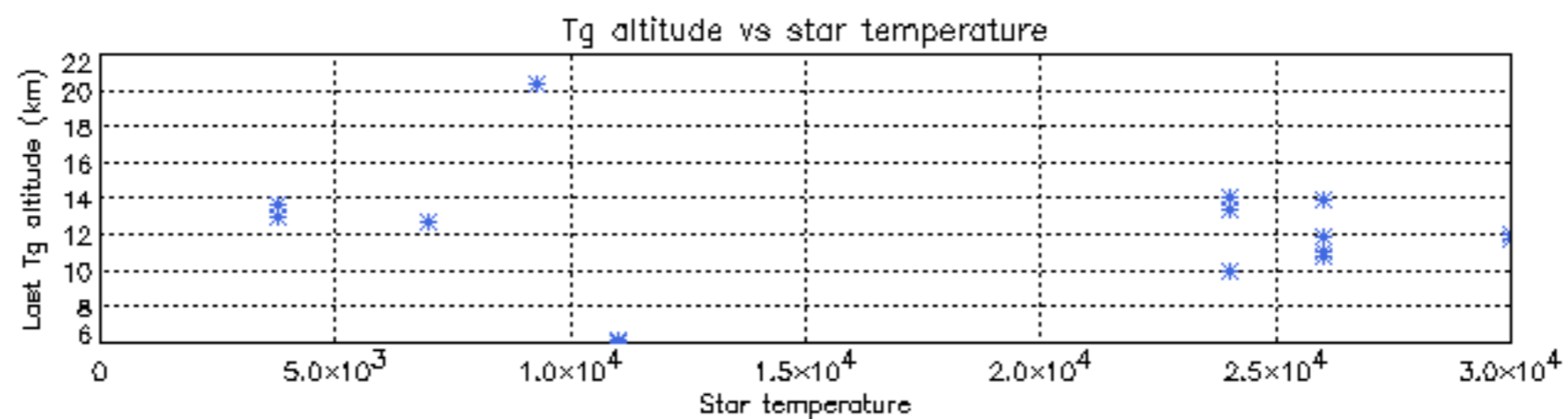
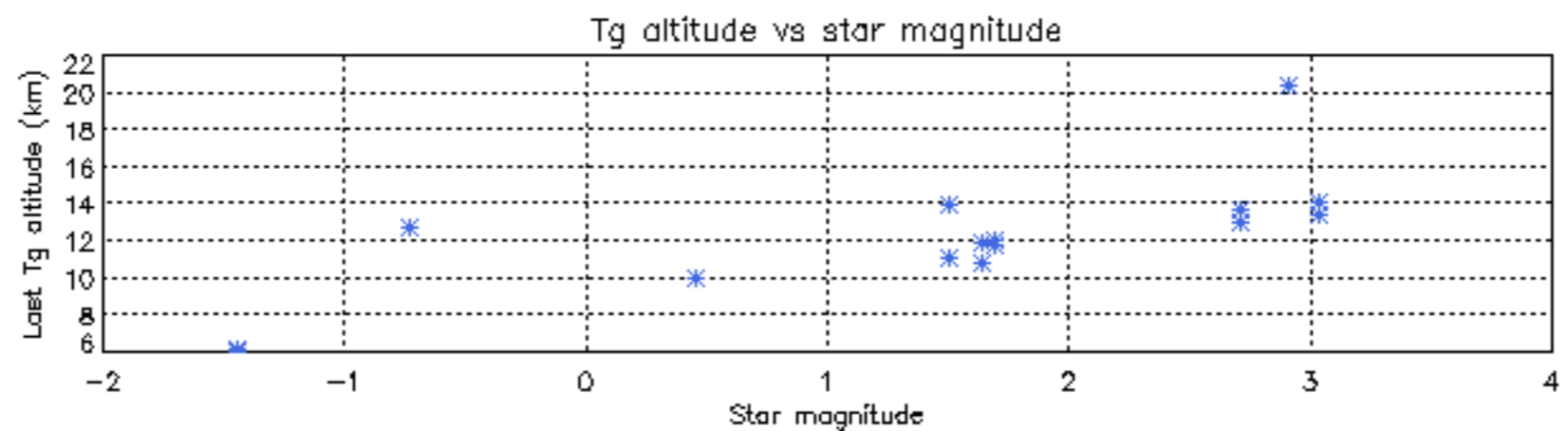
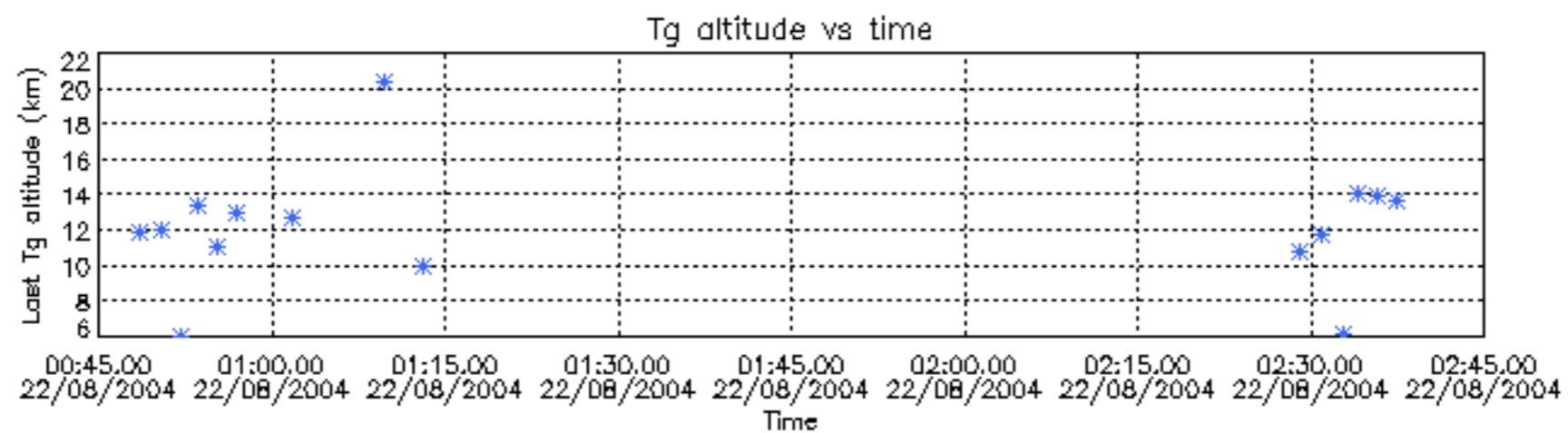
Percentage of star falling outside central band per profile



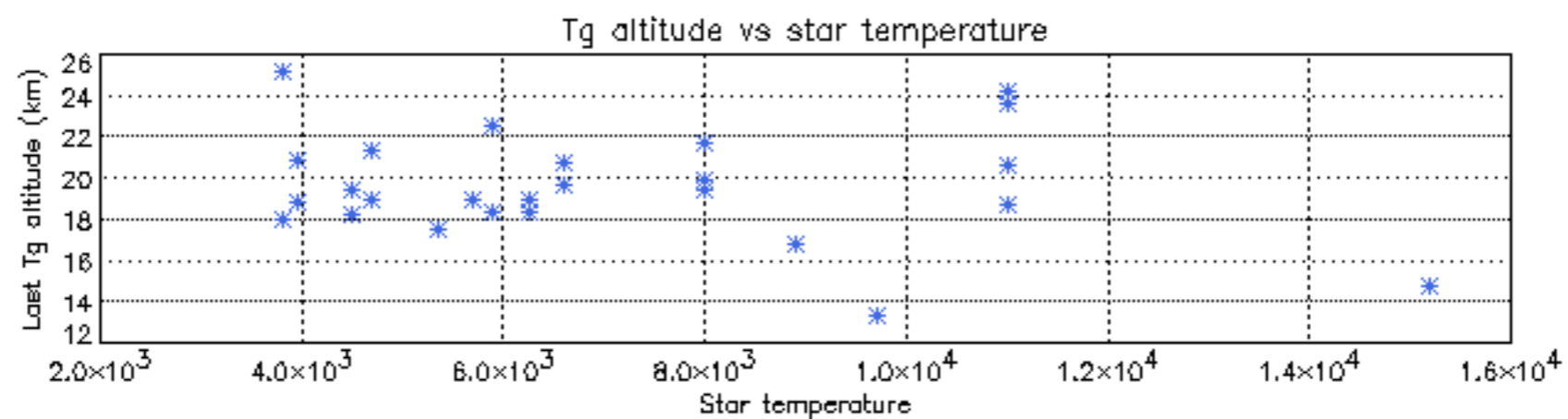
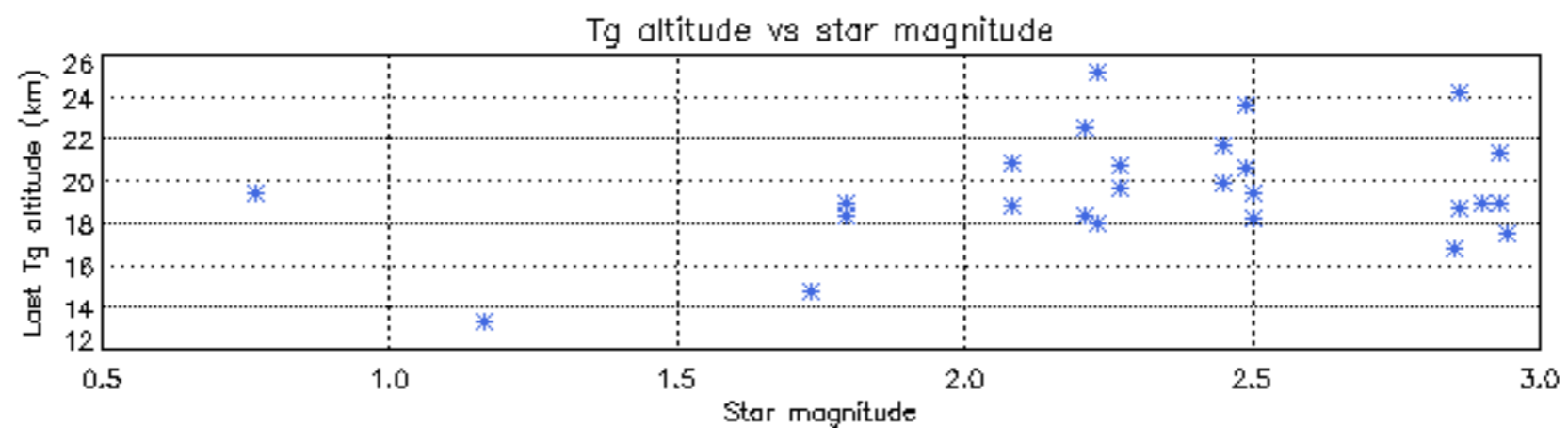
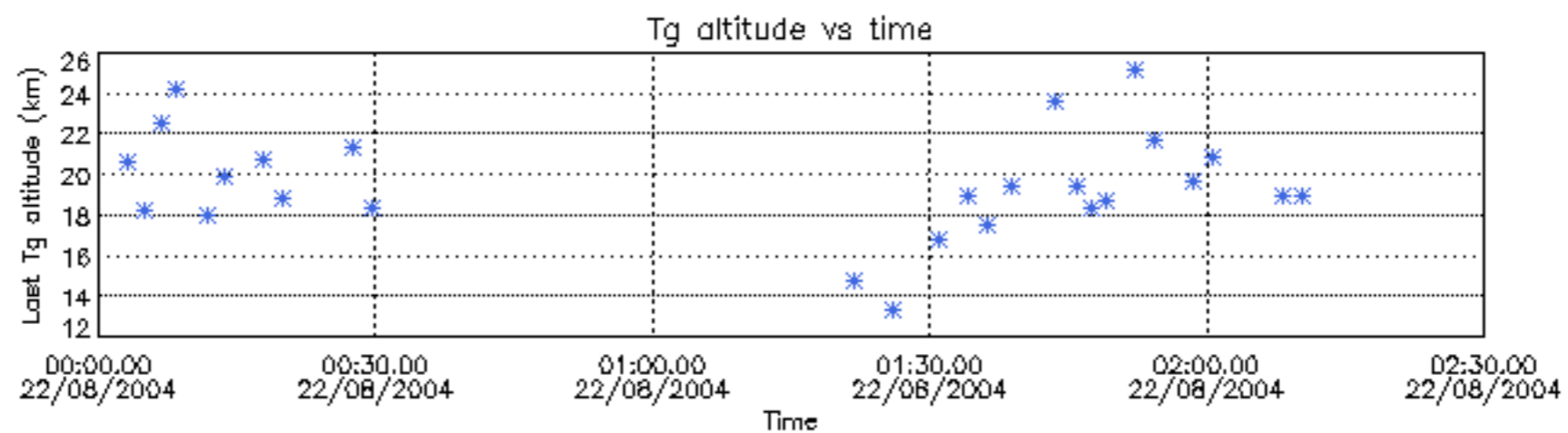
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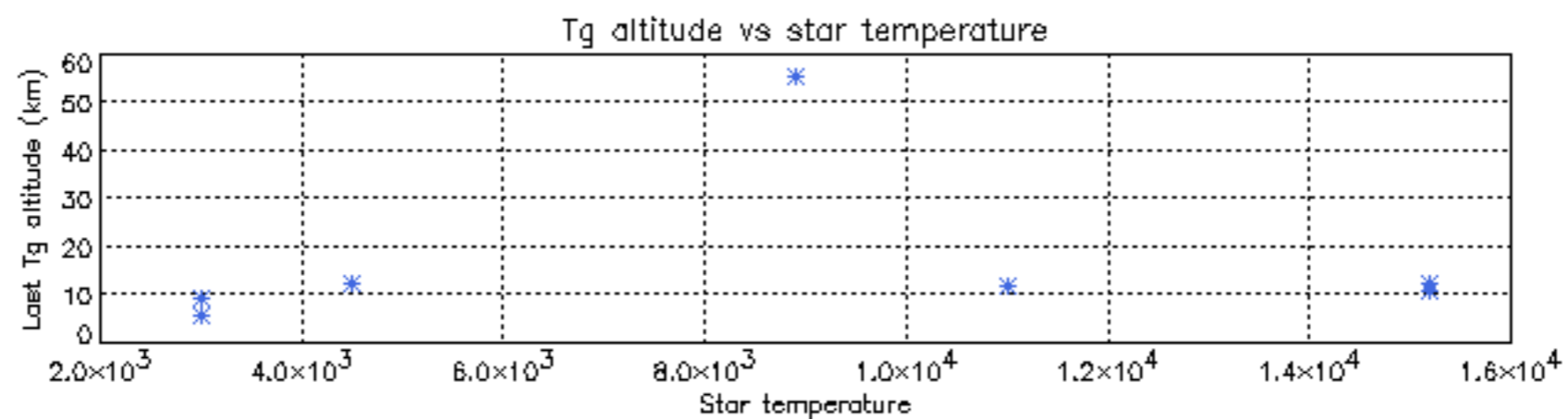
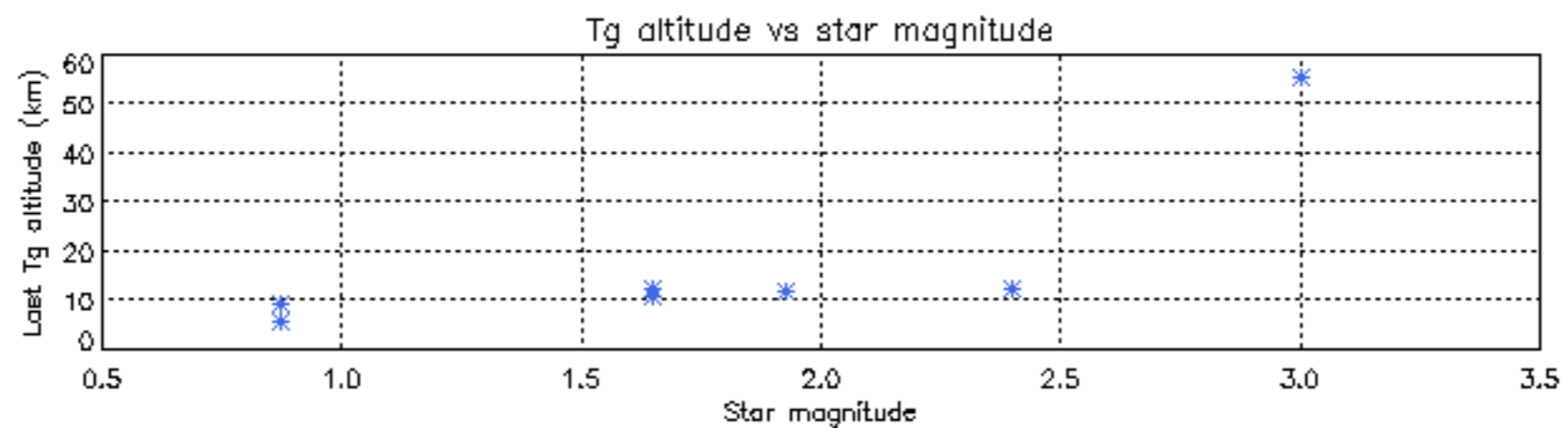
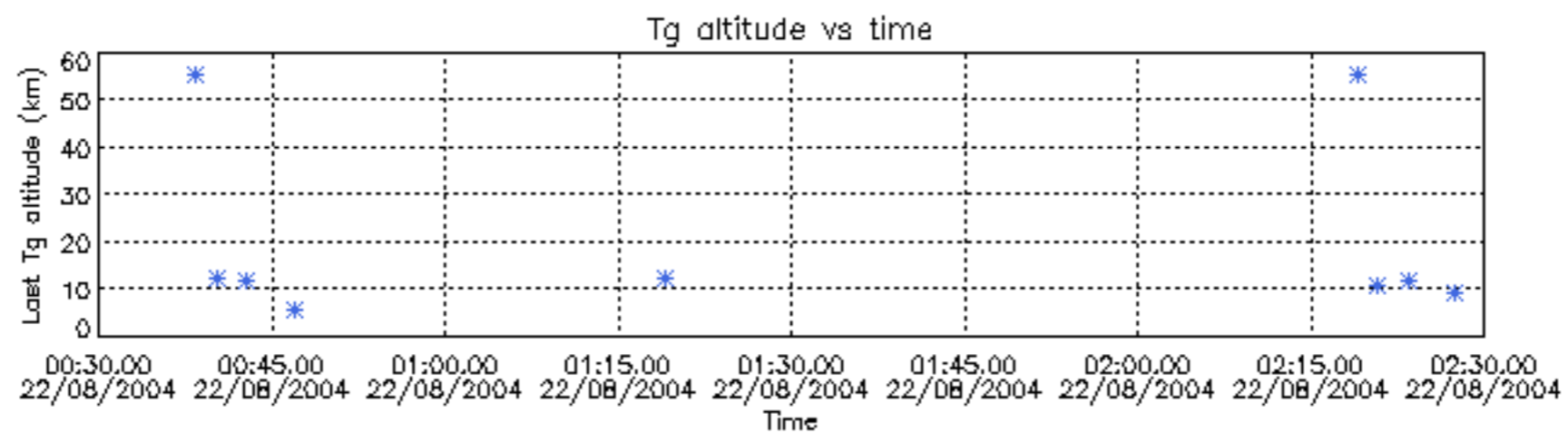
Tangent altitude at which the star is lost



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
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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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 2;-4219.5; 02-AUG-2004 13:46:53; Bright; 51.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 103; 0;12675
 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
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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