

GOMOS Daily Report 31-AUG-2004

Level 0 and Level 1 products

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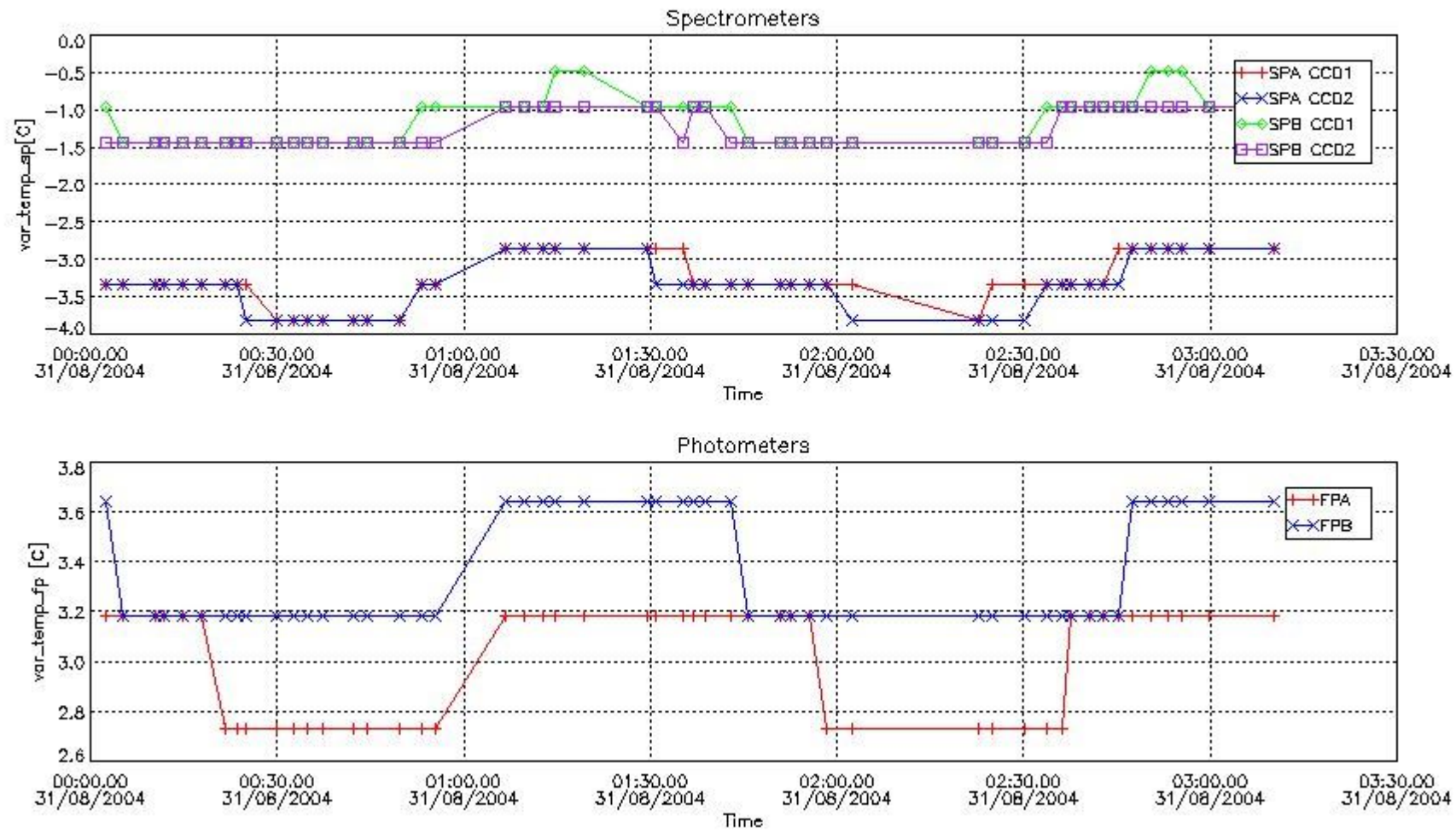
[Level 2 products](#)

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	02SEP2004 05:03:06
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (31AUG2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (01SEP2004 00:00:00)

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



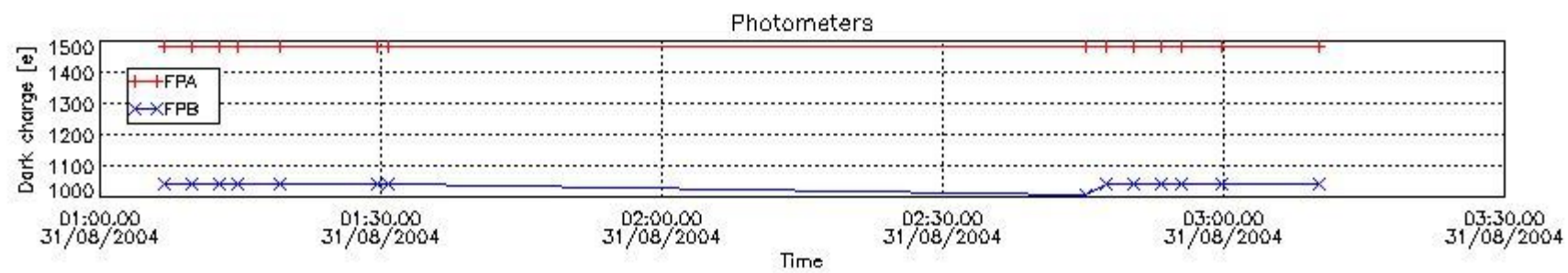
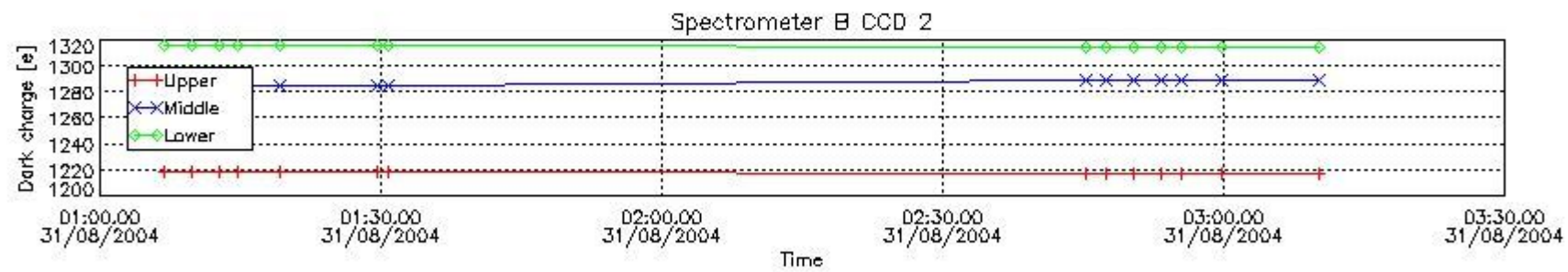
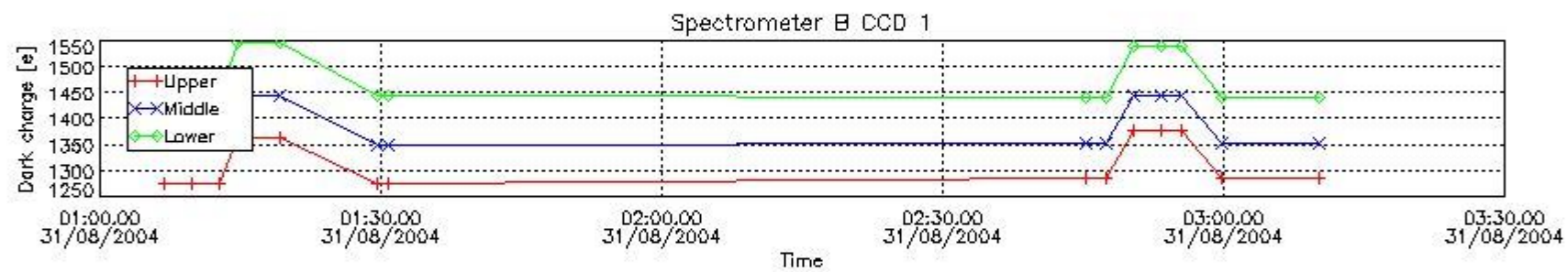
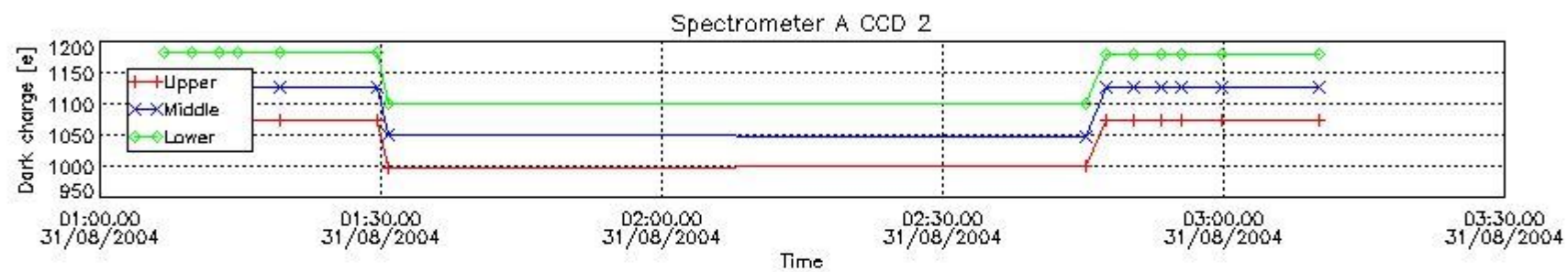
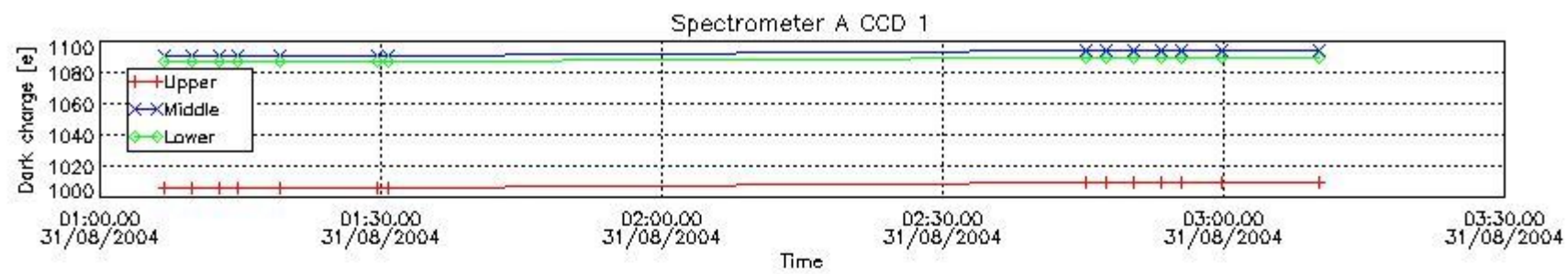
4. Overview of dark signal processing per product

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



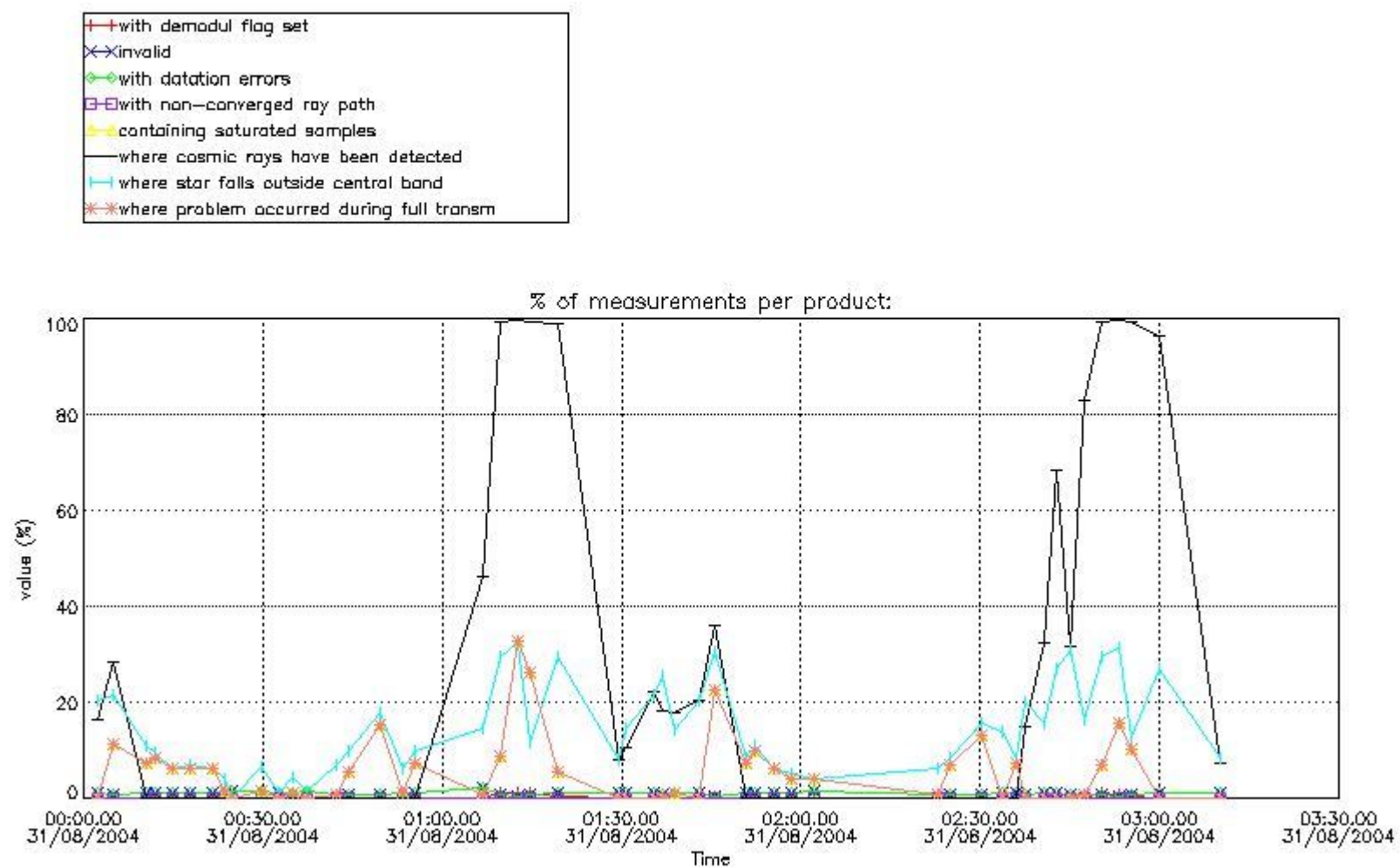
5. Demodulation flag and quality information monitoring

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.

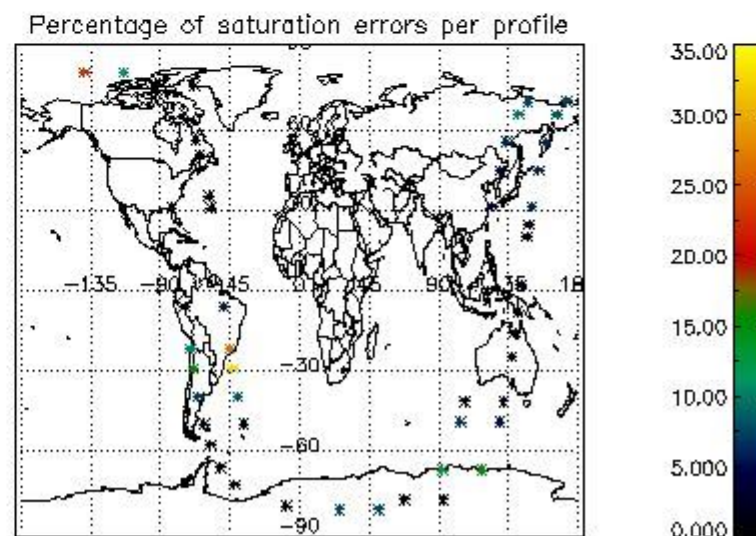
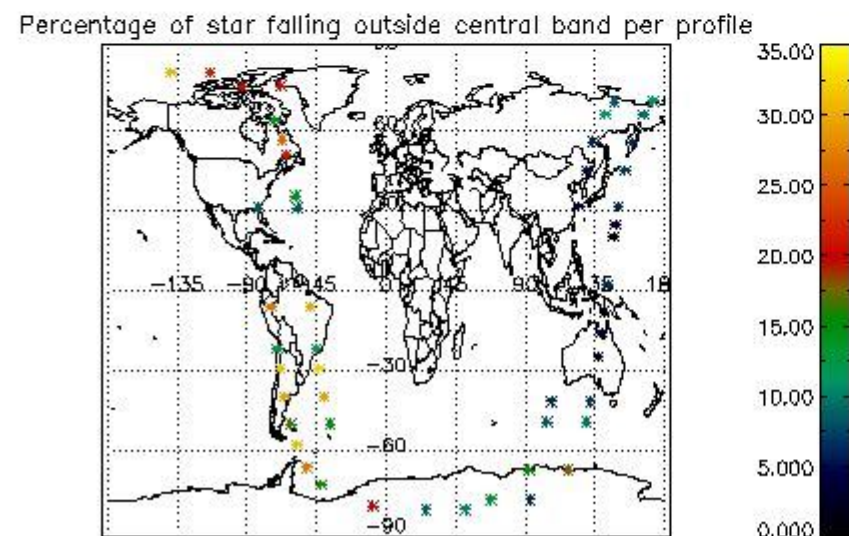
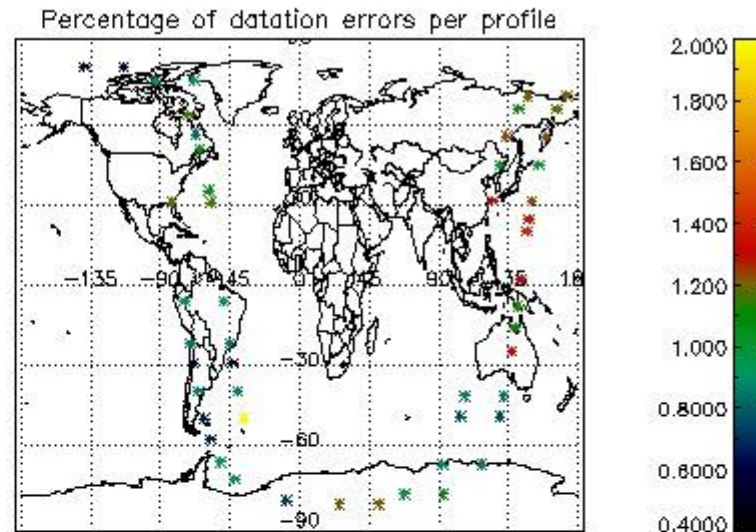
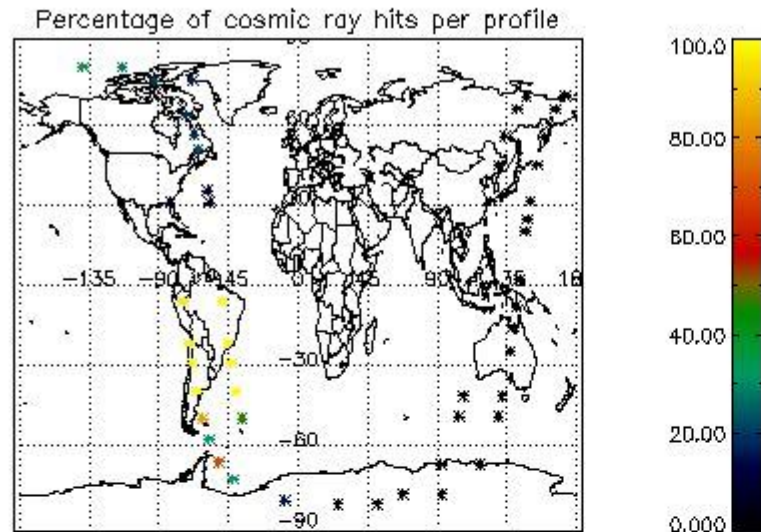
5.1 Percentage of products during reporting period with:

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)



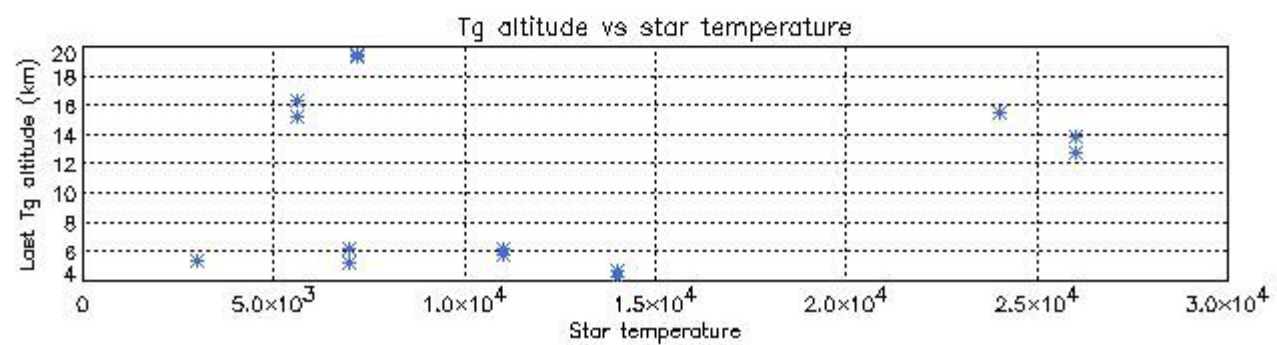
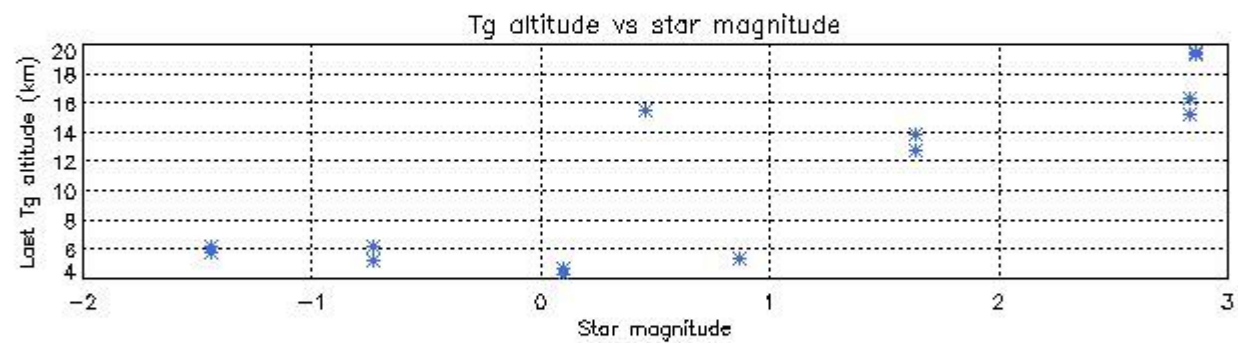
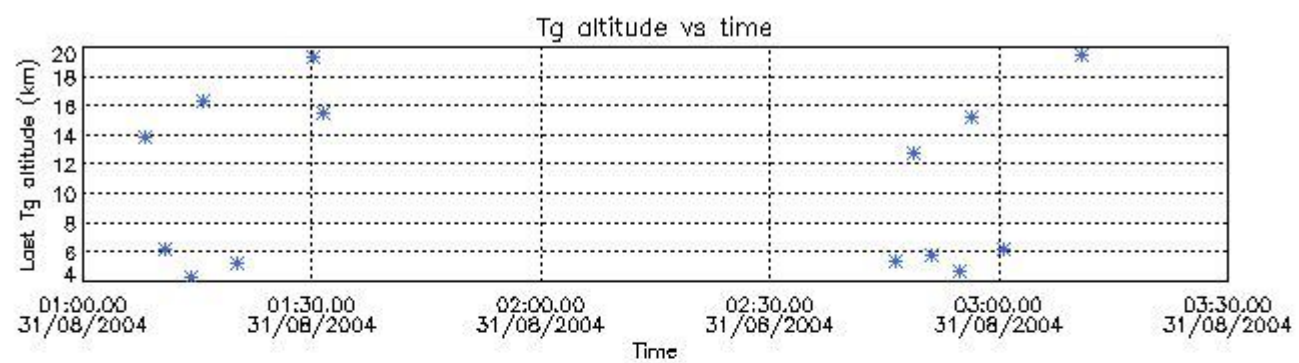
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	10.737	18.550	12.300
St. deviation:	5.8242	4.9163	3.7404
Maximum:	19.450	27.526	16.611
Minimum:	4.2618	6.1062	7.4879
Number of data:	14.000	28.000	8.0000

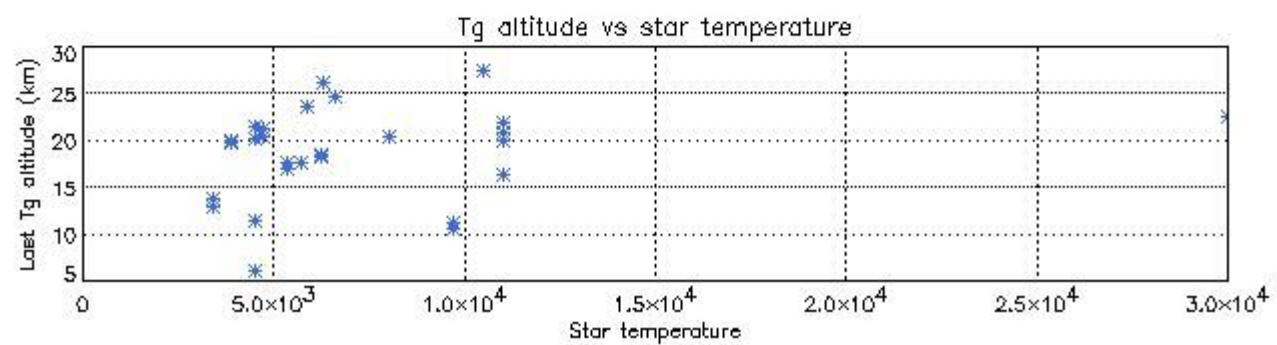
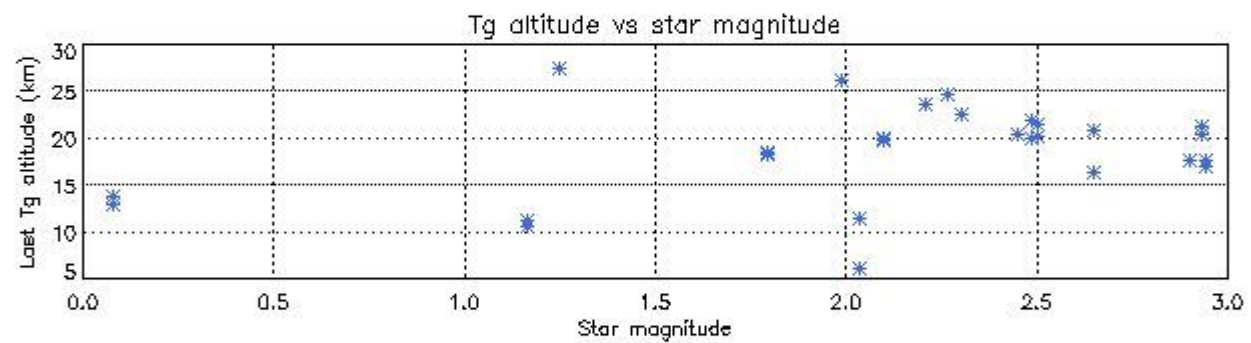
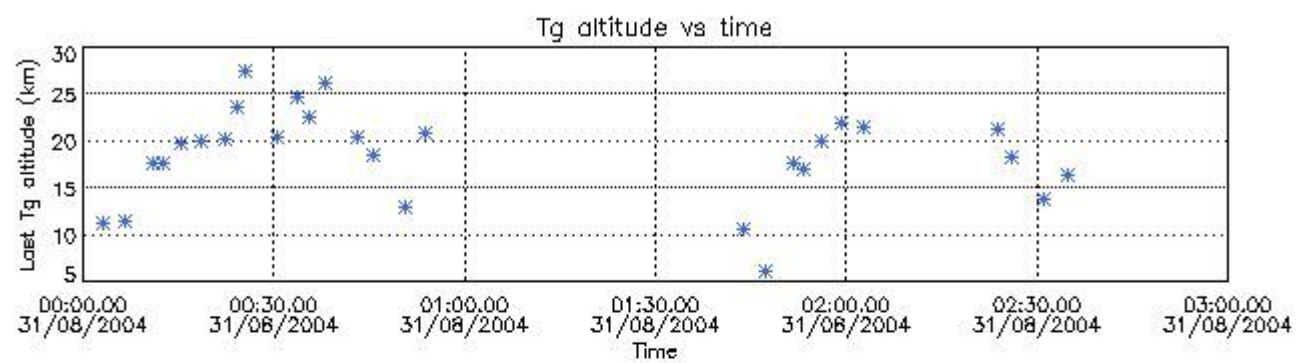
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



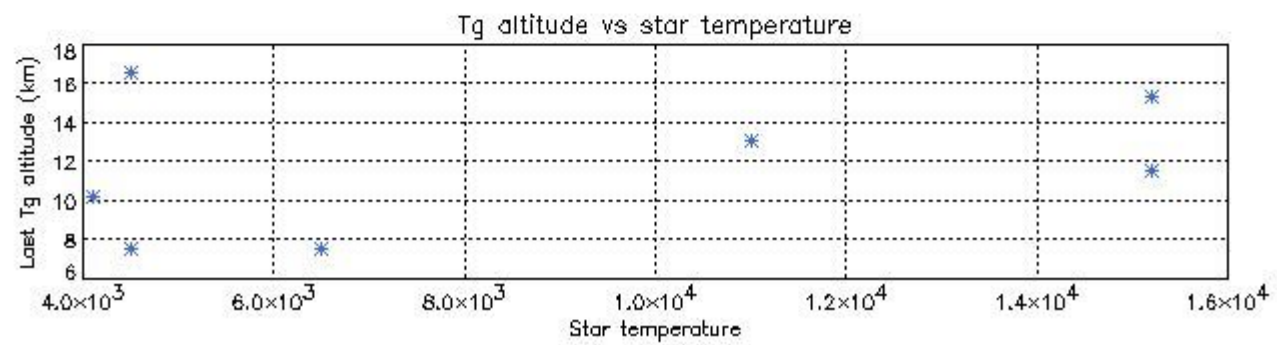
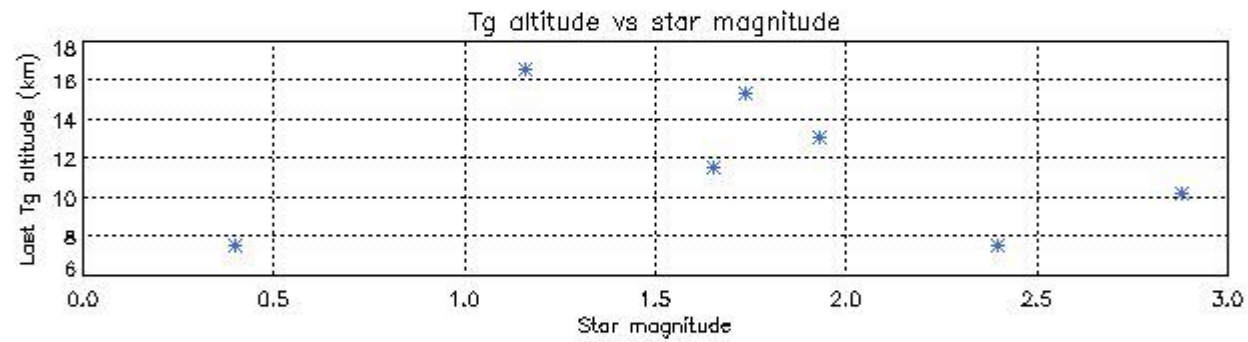
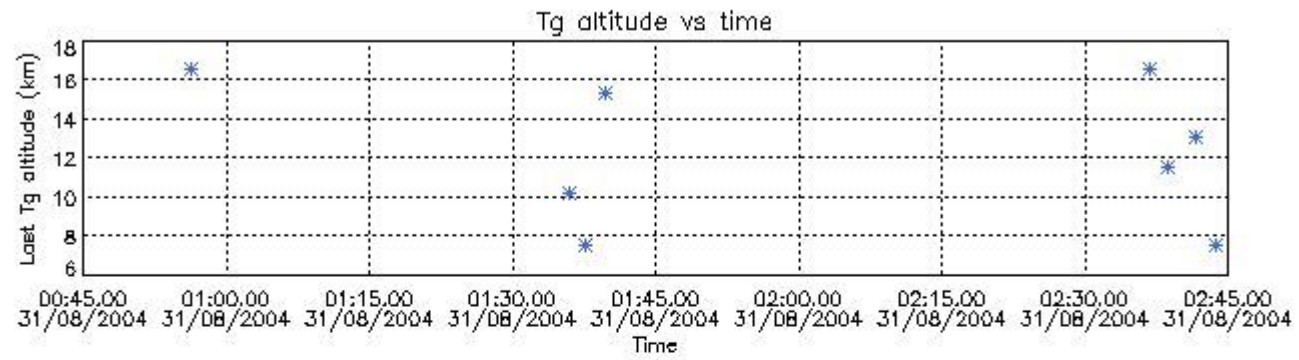
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

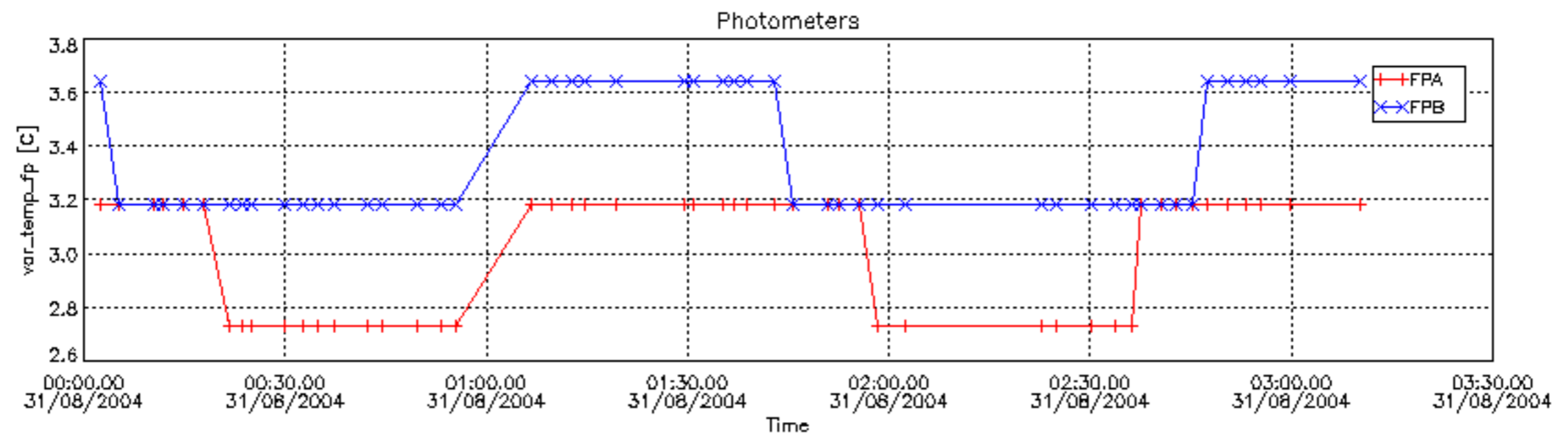
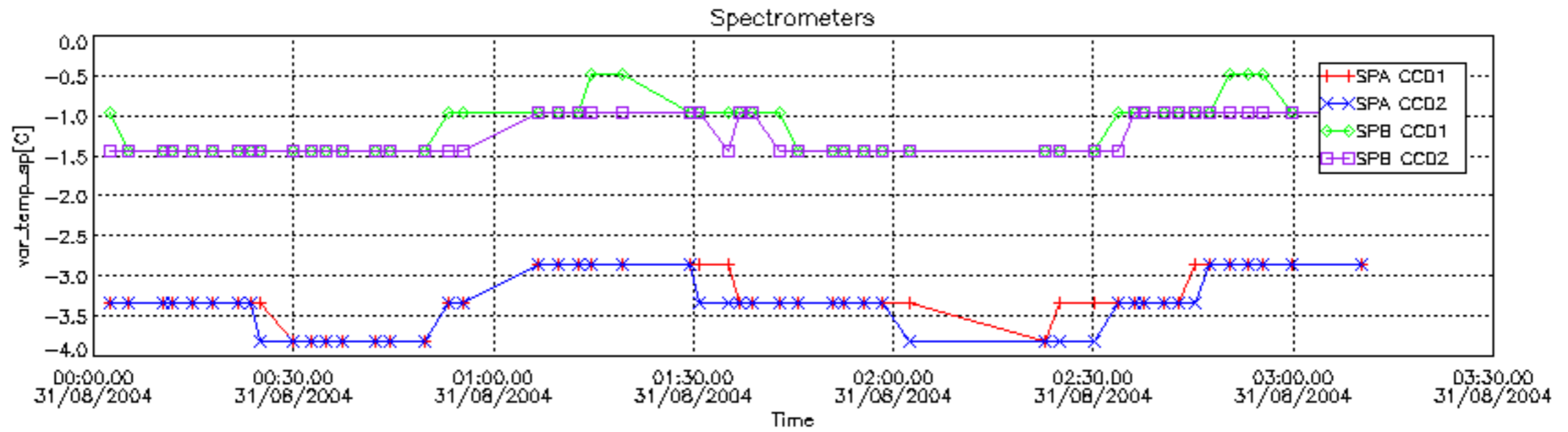


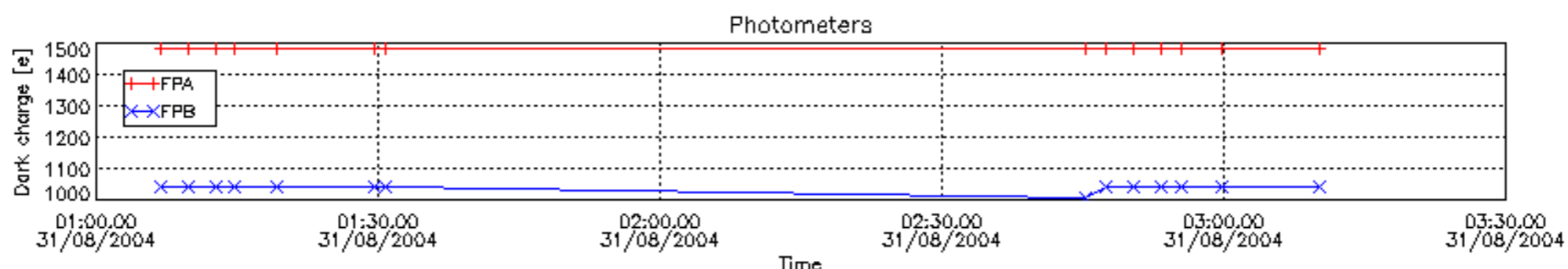
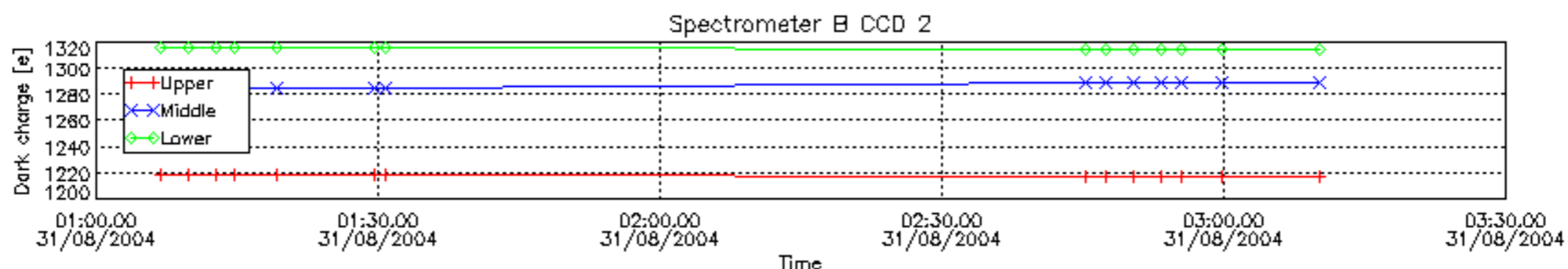
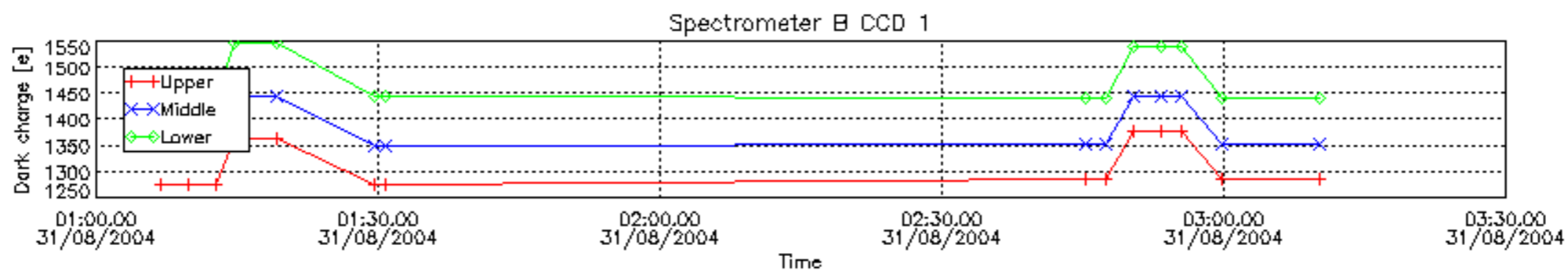
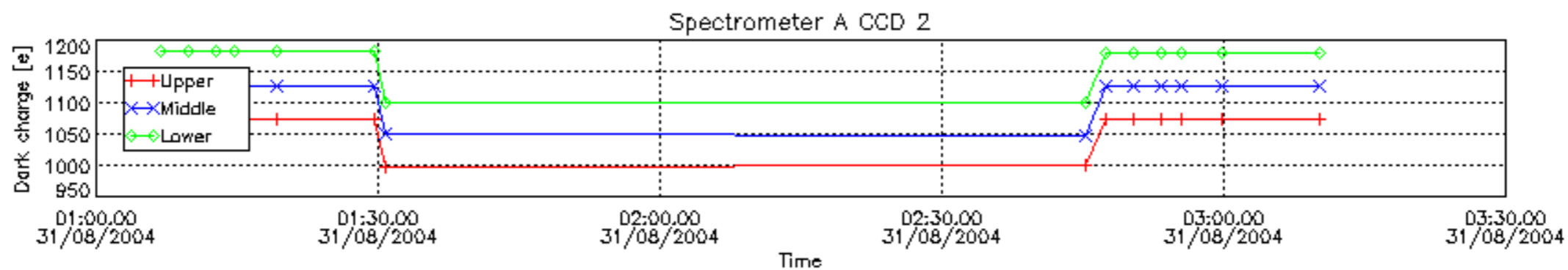
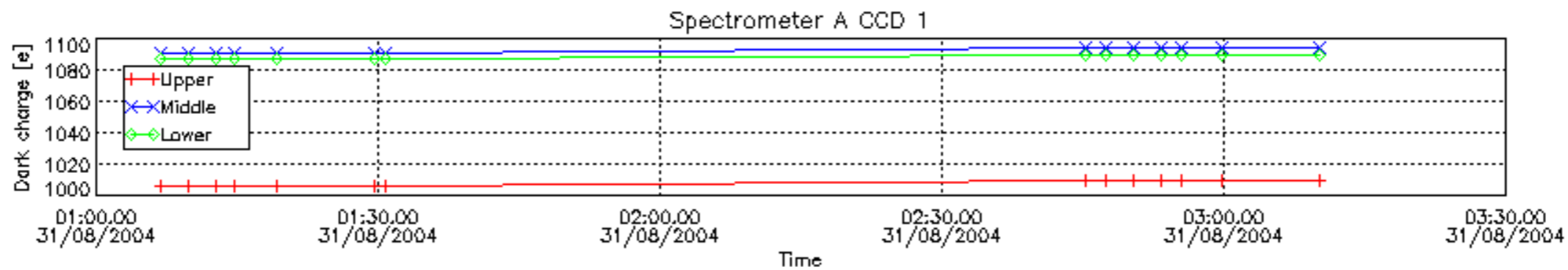
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

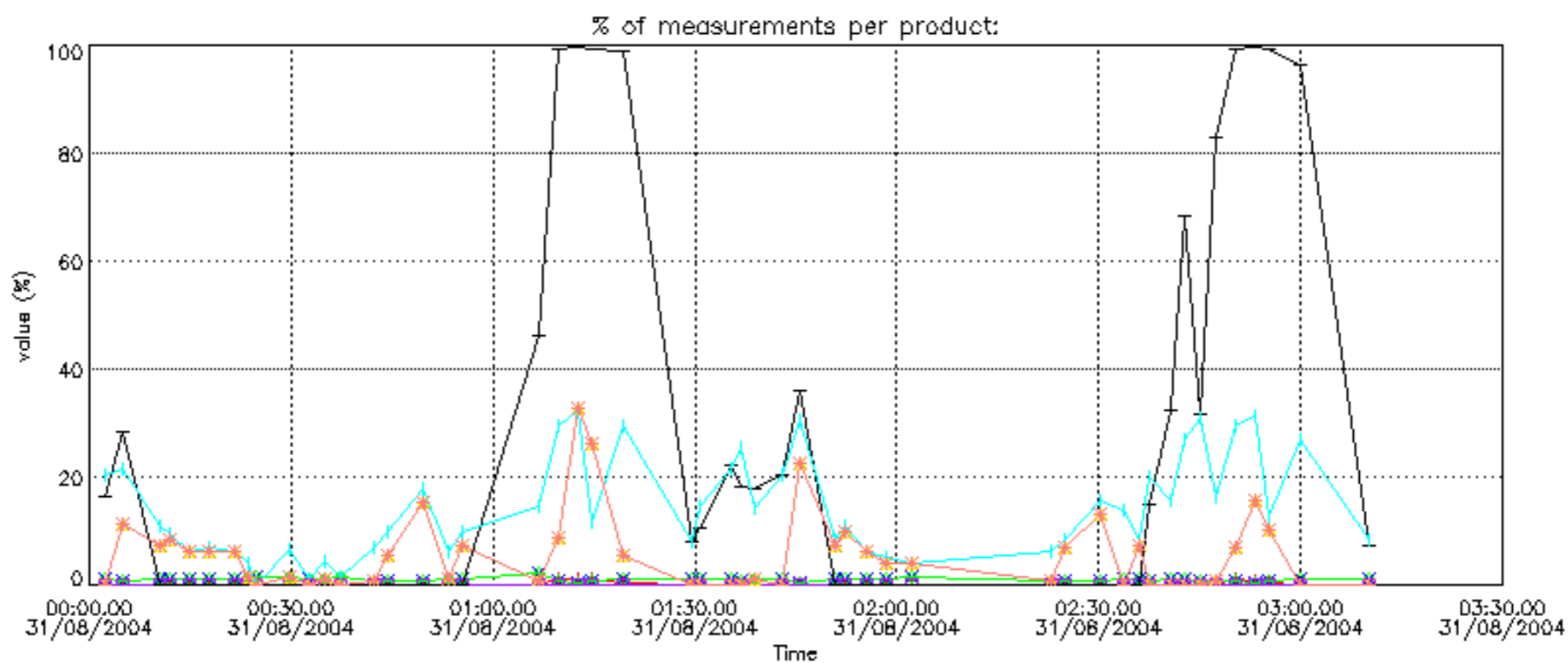
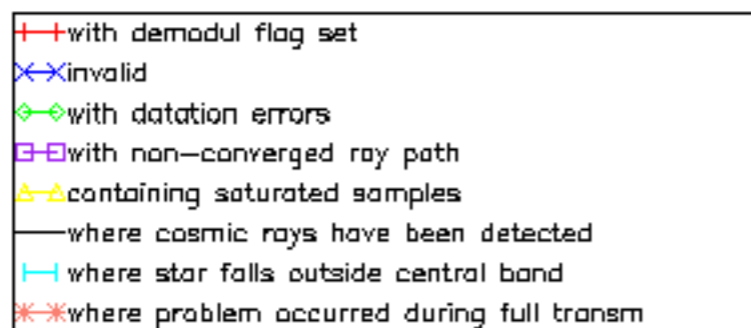
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

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.

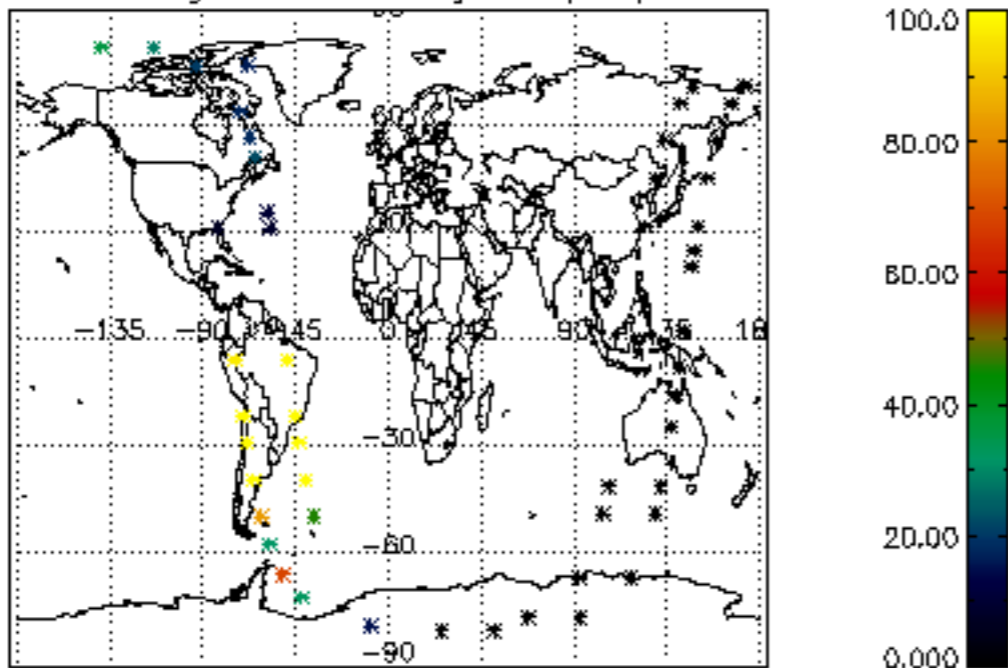
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.4	1449.0	1462.6	1448.6
St. deviation:	3.6635	4.6130	6.2016	6.8931
Maximum:	1501.0	1552.0	1507.0	1500.0
Minimum:	1434.0	1416.0	1433.0	1410.0
Number of data:	21100.	21100.	35750.	35750.



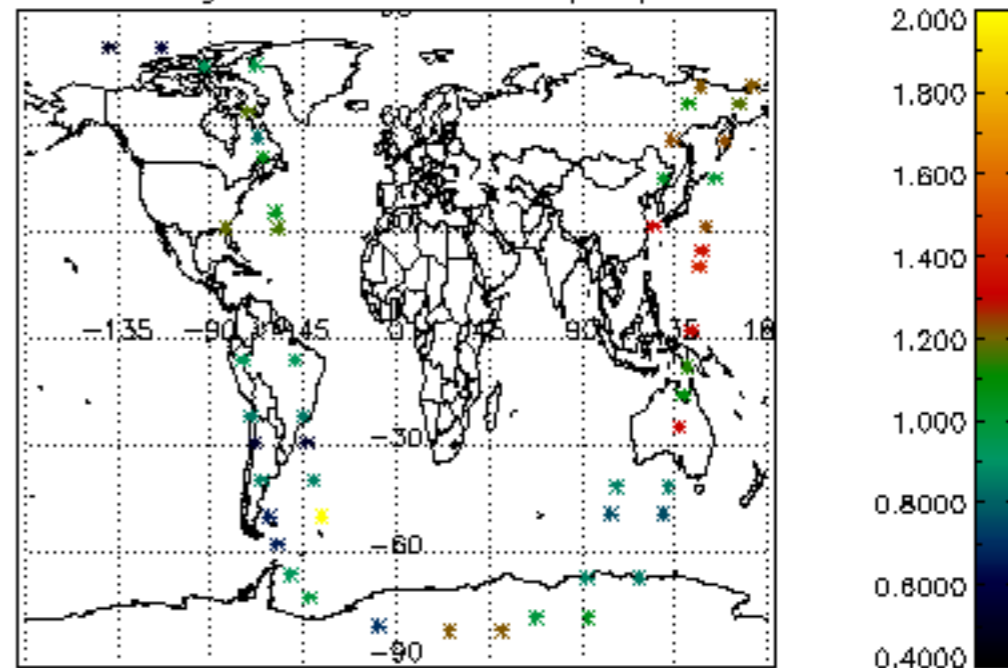




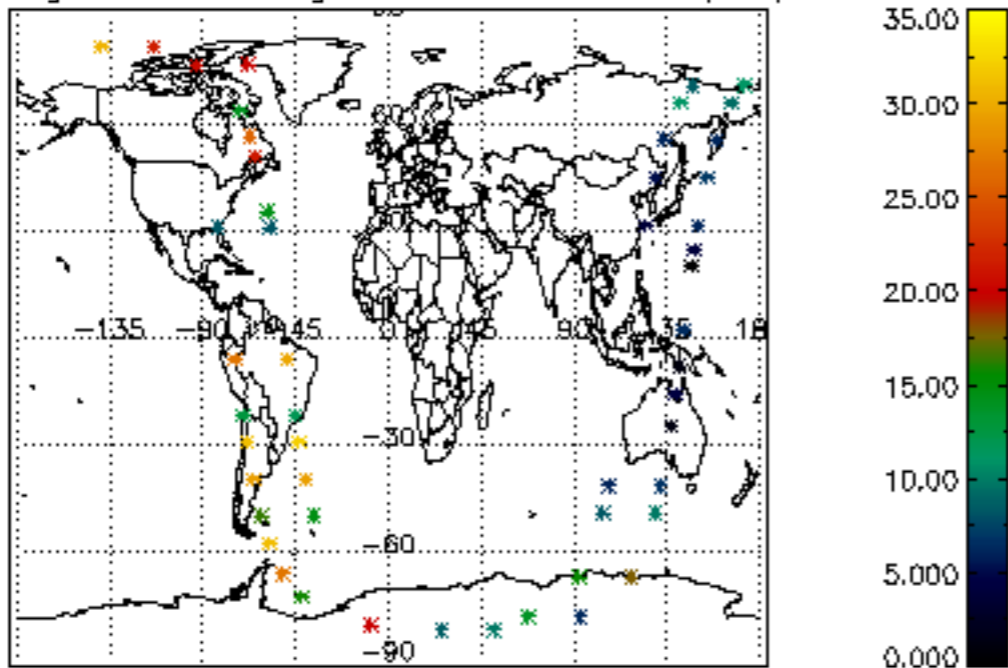
Percentage of cosmic ray hits per profile



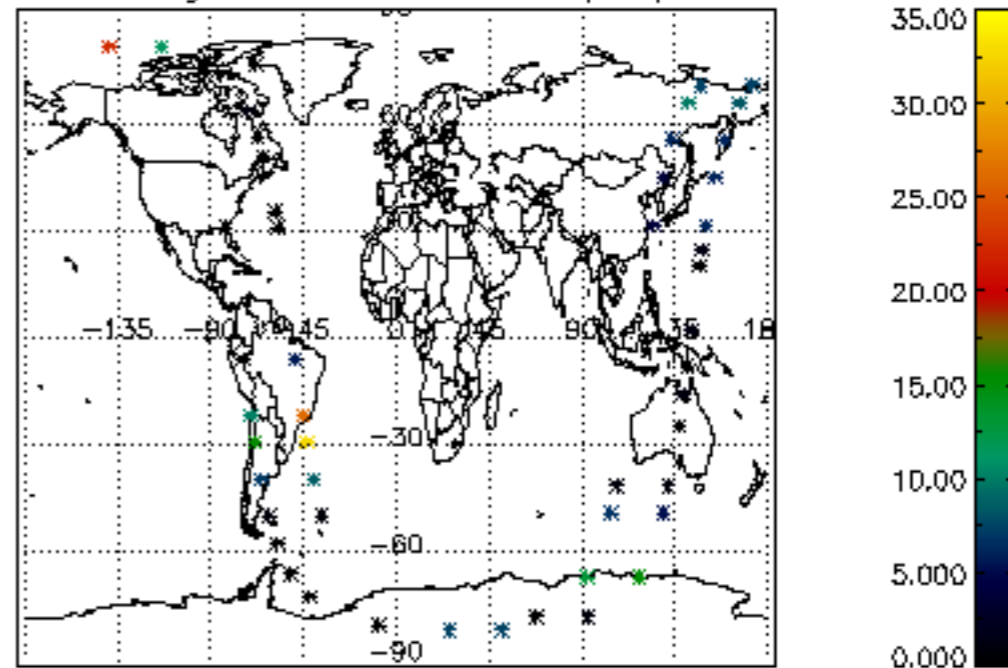
Percentage of datation errors per profile



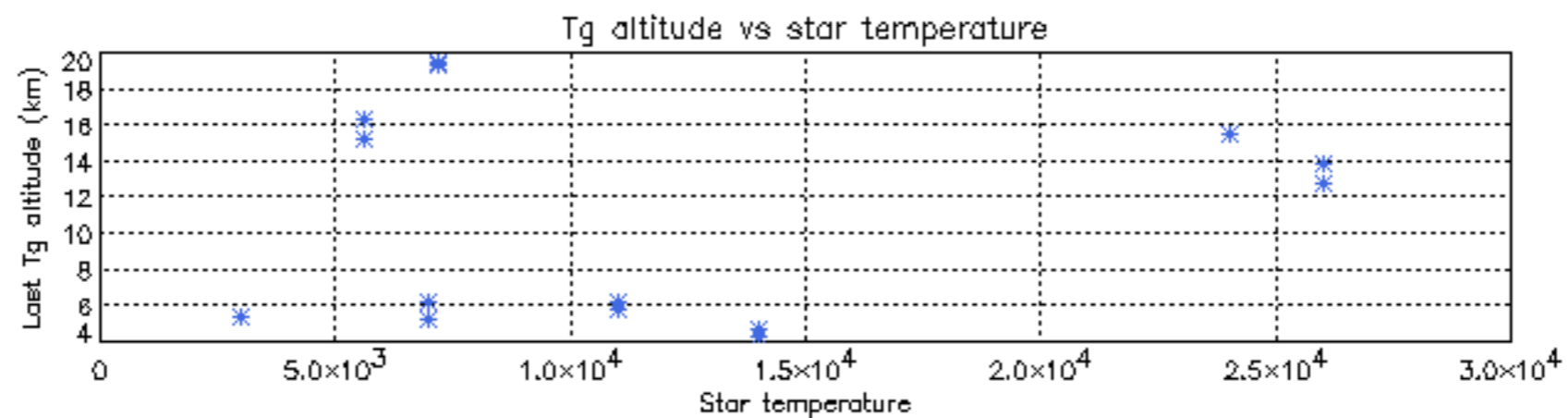
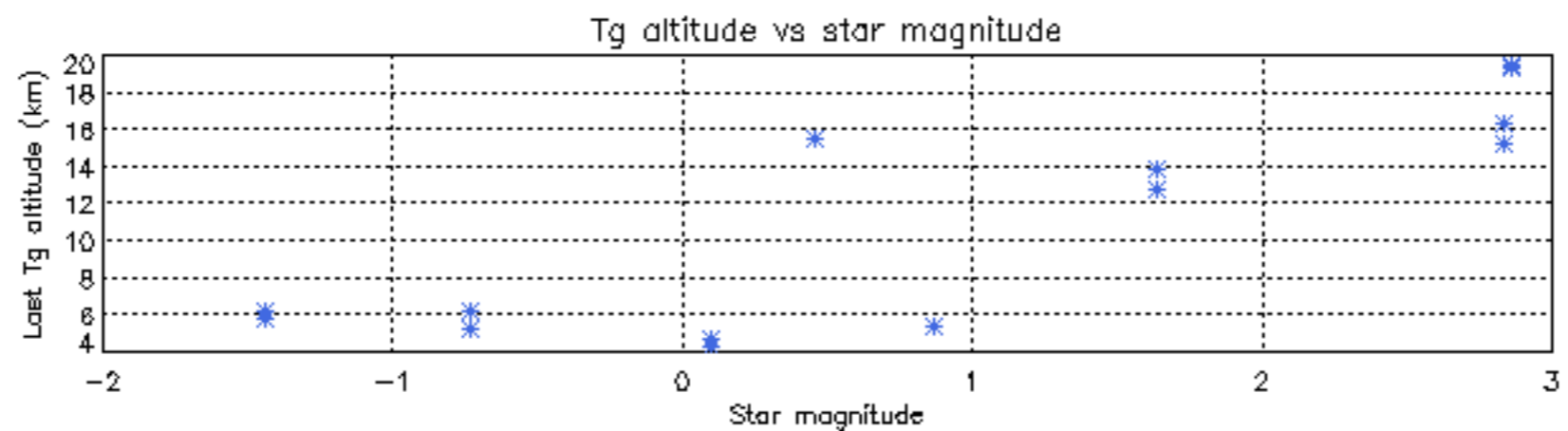
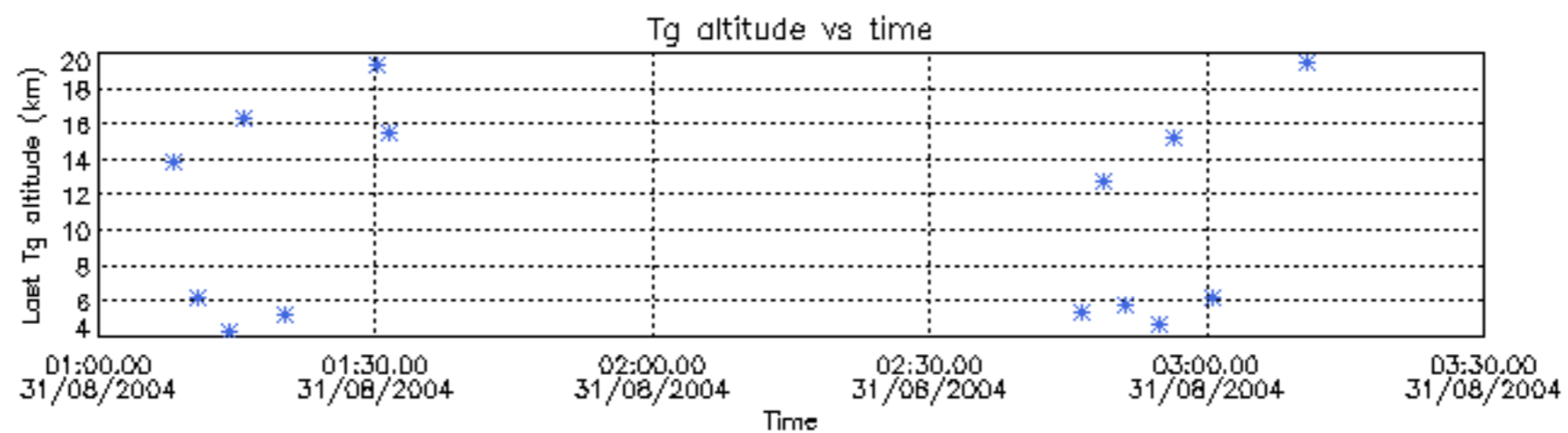
Percentage of star falling outside central band per profile



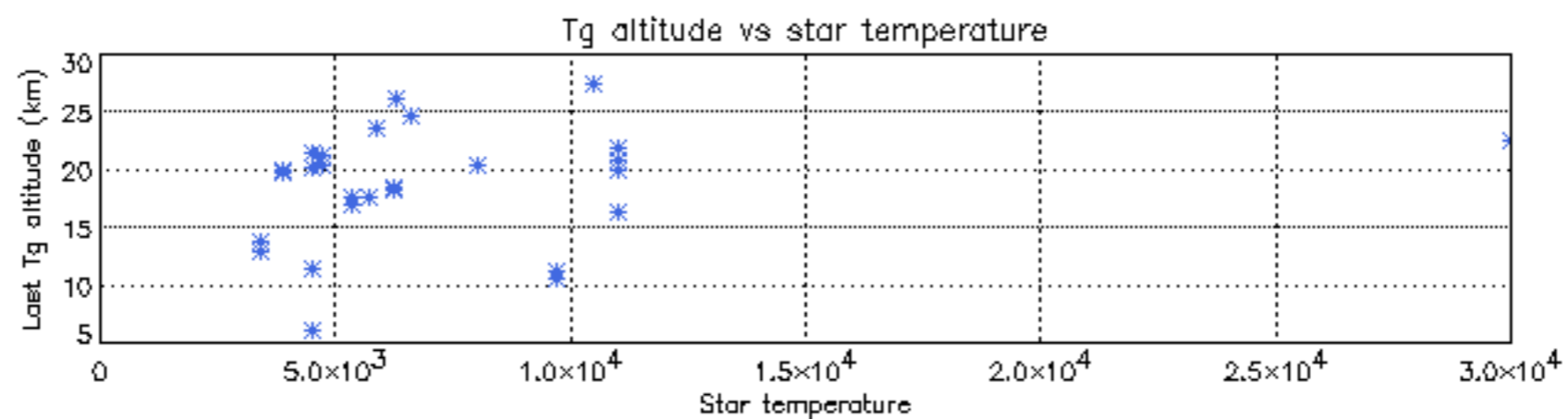
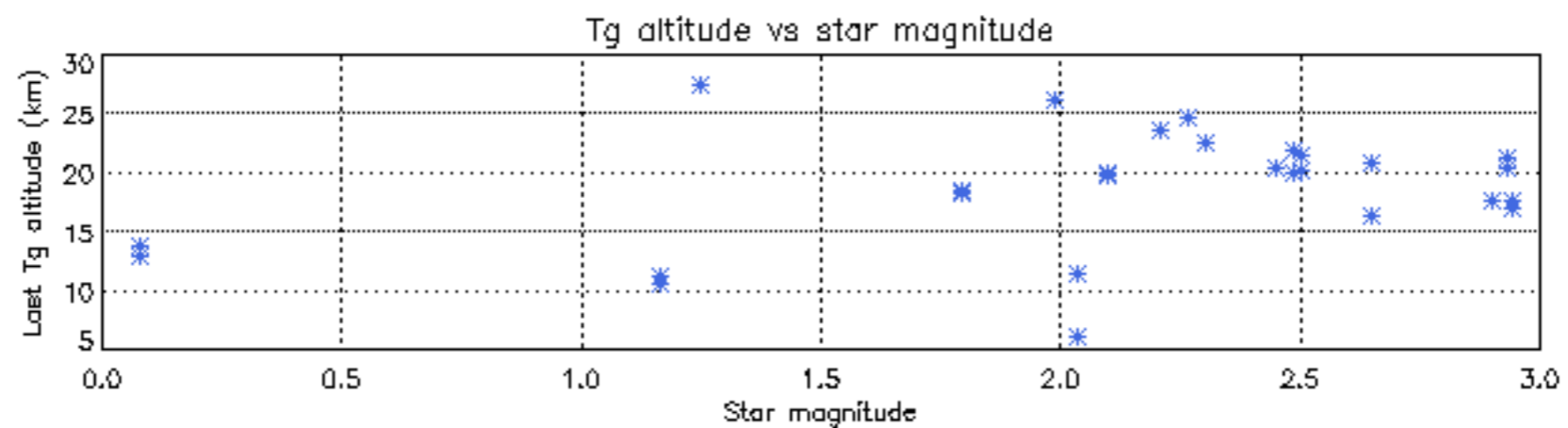
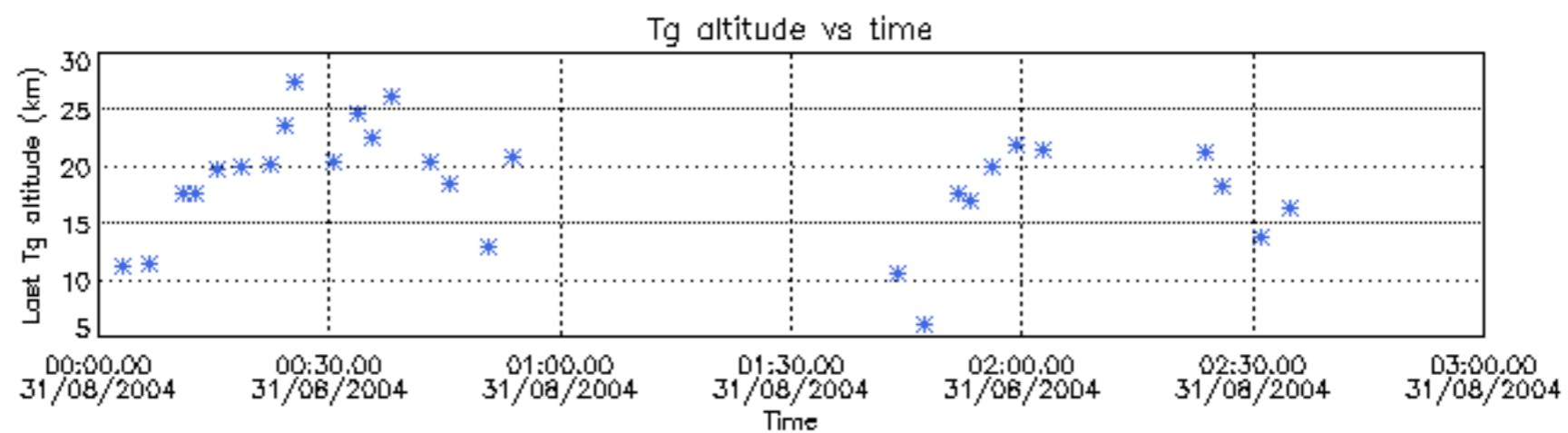
Percentage of saturation errors per profile



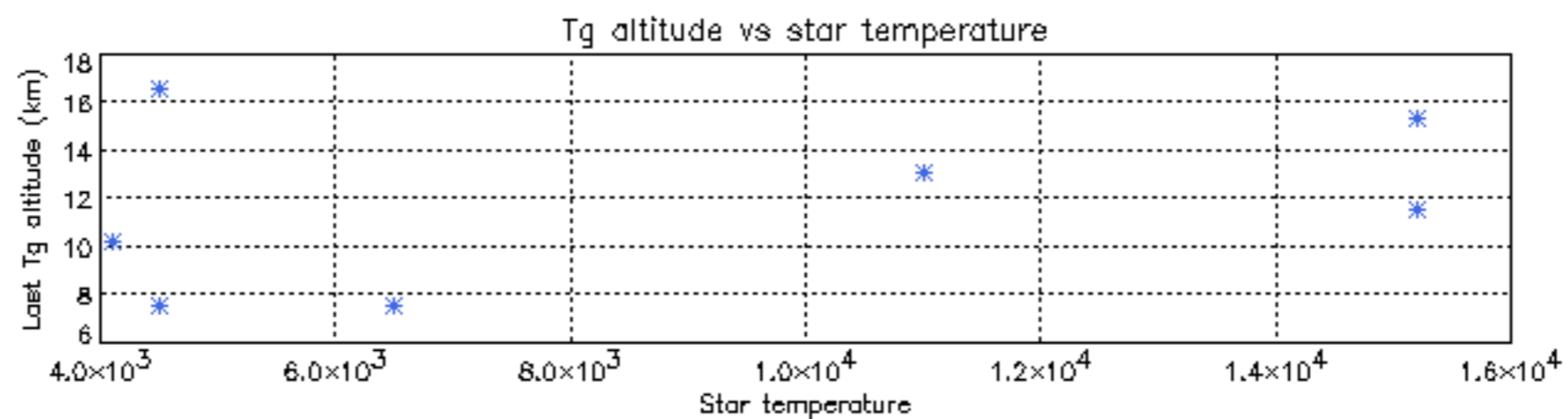
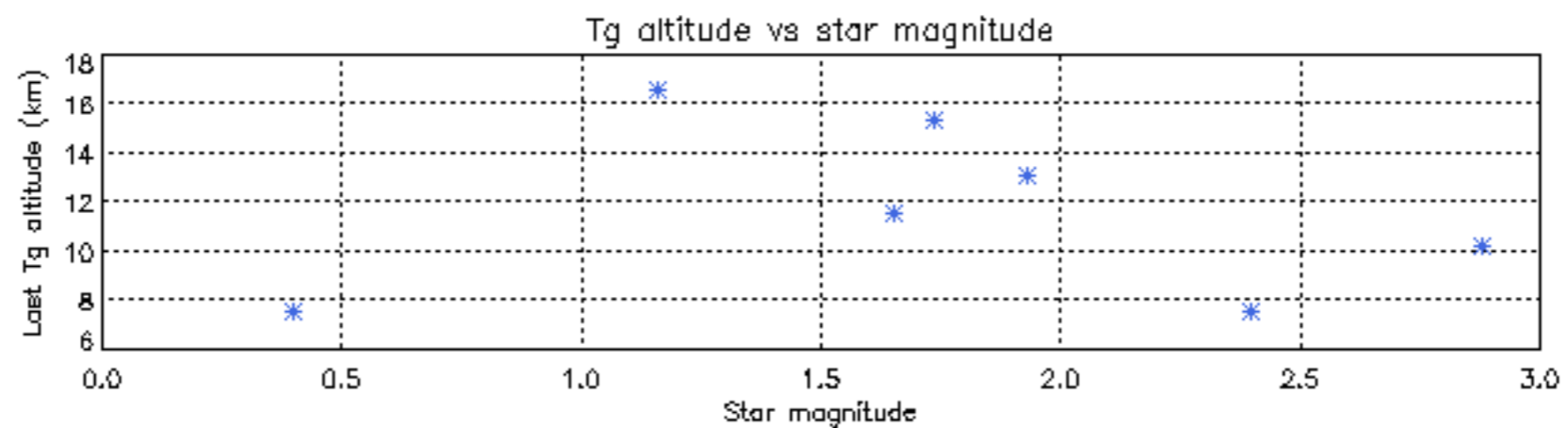
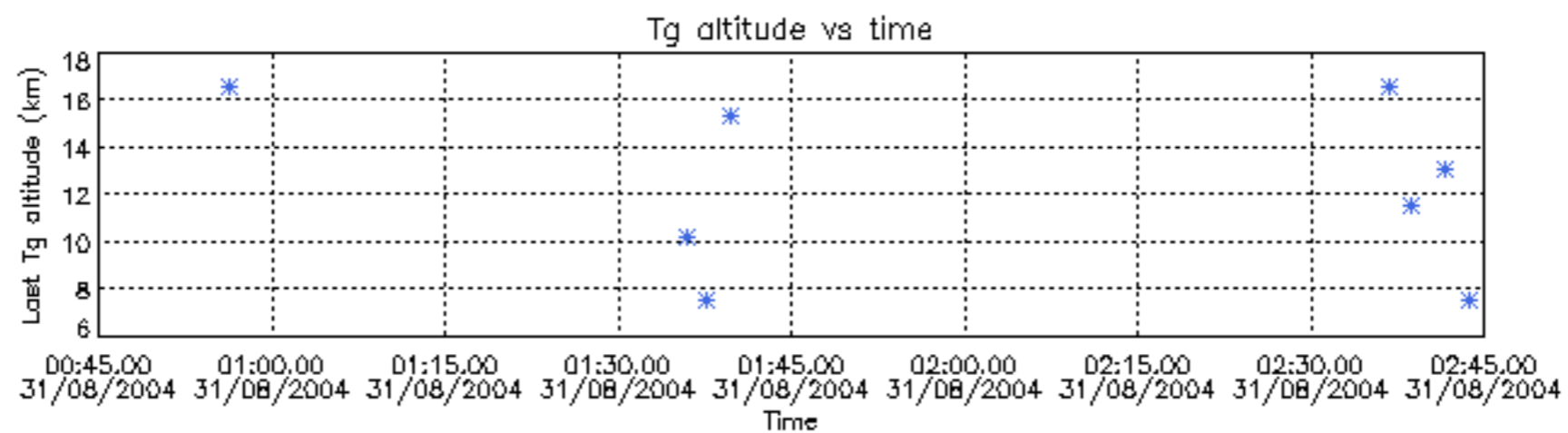
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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7; 592.4; 01-AUG-2004 00:33:19; Dark ; 60.5; 84; Alp Phe ; 2.40; 4500;occ; 121; 0;12653
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4; -481.6; 01-AUG-2004 01:56:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12653
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6; 308.2; 01-AUG-2004 02:09:10; Dark ; 55.5; 9; Alp Eri ; 0.45; 24000;occ; 111; 0;12654
7; 424.4; 01-AUG-2004 02:11:06; Dark ; 39.0; 135; Bet Hyi ; 2.82; 5800;occ; 78; 0;12654
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 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
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 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
 16;-144770416.9; 01-JAN-2000 00:56:55; Dark ; 42.0; 176; 23Zet Tau ; 3.02; 22000;occ; 84; 0;12675
 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
 22;-144769748.2; 01-JAN-2000 01:08:04; Dark ; 44.0; 101; 11Alp Lep ; 2.58; 7000;occ; 88; 0;12675
 23;-144769601.1; 01-JAN-2000 01:10:31; Dark ; 39.5; 177; 1Zet CMA ; 3.02; 26000;occ; 79; 0;12675
 24;-144769502.4; 01-JAN-2000 01:12:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12675
 25;-144769231.6; 01-JAN-2000 01:16:41; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;12675
 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
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 32;-144767876.1; 01-JAN-2000 01:39:16; Dark ; 68.0; 18; 24Alp PsA ; 1.17; 9700;occ; 136; 36;12675
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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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16;-1391.8; 02-AUG-2004 16:14:36; Dark ; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;12676
17;-1237.1; 02-AUG-2004 16:17:11; Dark ; 57.0; 13; 87Alp Tau ; 0.87; 3800;occ; 114; 0;12676
18;-1117.9; 02-AUG-2004 16:19:10; Dark ; 41.5; 27; 24Gam Ori ; 1.64; 26000;occ; 83; 0;12676
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22; -723.0; 02-AUG-2004 16:25:45; Dark ; 44.0; 101; 11Alp Lep ; 2.58; 7000;occ; 88; 0;12676
23; -576.1; 02-AUG-2004 16:28:12; Dark ; 40.0; 177; 1Zet CMA ; 3.02; 26000;occ; 80; 0;12676
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25; -206.6; 02-AUG-2004 16:34:22; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;12676
26; 2.1; 02-AUG-2004 16:37:50; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;12677
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
30; 728.2; 02-AUG-2004 16:49:56; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;12677
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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4; 932.9; 02-AUG-2004 21:55:09; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;12680
5; 1151.1; 02-AUG-2004 21:58:47; Dark ; 68.5; 18; 24Alp PsA ; 1.17; 9700;occ; 137; 0;12680
6; 1416.6; 02-AUG-2004 22:03:13; Dark ; 48.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 96; 0;12680
7; 1569.9; 02-AUG-2004 22:05:46; Bright; 52.5; 142; 49Del Cap ; 2.85; 8900;occ; 105; 0;12680
8; 1815.4; 02-AUG-2004 22:09:52; Bright; 53.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 107; 0;12680
9; 2055.6; 02-AUG-2004 22:13:52; Bright; 39.0; 11; 53Alp Aql ; 0.76; 8000;occ; 78; 0;12680
10; 2144.9; 02-AUG-2004 22:15:21; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76; 0;12680
11; 2570.4; 02-AUG-2004 22:22:26; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;12680
12; 2687.0; 02-AUG-2004 22:24:23; Bright; 37.0; 144; 18Del Cyg ; 2.86; 11000;occ; 74; 0;12680
13; 2800.5; 02-AUG-2004 22:26:17; Bright; 35.0; 69; 33Gam Dra ; 2.23; 3800;occ; 70; 0;12680
14; 3046.0; 02-AUG-2004 22:30:22; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;12680
15; 3293.1; 02-AUG-2004 22:34:29; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;12680
16; 3439.1; 02-AUG-2004 22:36:55; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;12680
17; 3574.0; 02-AUG-2004 22:39:10; Bright; 50.0; 76; 27Gam Cas ; 2.30; 30000;occ; 100; 0;12680
18; 3965.8; 02-AUG-2004 22:45:42; Bright; 52.0; 160; 23Gam Per ; 2.93; 4700;occ; 104; 0;12680
19; 4135.6; 02-AUG-2004 22:48:32; Bright; 85.5; 73; 57Gam1And ; 2.26; 13100;occ; 171; 0;12680
20; 4290.4; 02-AUG-2004 22:51:07; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12680
21; 4644.9; 02-AUG-2004 22:57:01; Dark ; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;12680
22; 4800.5; 02-AUG-2004 22:59:37; Dark ; 62.5; 13; 87Alp Tau ; 0.87; 3800;occ; 125; 0;12680
23; 4919.3; 02-AUG-2004 23:01:35; Dark ; 45.0; 27; 24Gam Ori ; 1.64; 26000;occ; 90; 0;12680
24; 5034.1; 02-AUG-2004 23:03:30; Dark ; 46.0; 30; 46Eps Ori ; 1.69; 30000;occ; 92; 0;12680
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9; 931.0; 02-AUG-2004 23:35:43; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;12681
10; 1152.3; 02-AUG-2004 23:39:24; Dark ; 67.5; 18; 24Alp PsA ; 1.17; 9700;occ; 135; 0;12681
11; 1414.4; 02-AUG-2004 23:43:46; Dark ; 48.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 97; 0;12681
12; 1569.9; 02-AUG-2004 23:46:22; Bright; 54.5; 142; 49Del Cap ; 2.85; 8900;occ; 109; 0;12681
13; 1815.6; 02-AUG-2004 23:50:28; Bright; 51.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 103; 0;12681
14; 2055.0; 02-AUG-2004 23:54:27; Bright; 39.5; 11; 53Alp Aql ; 0.76; 8000;occ; 79; 0;12681
15; 2144.4; 02-AUG-2004 23:55:56; Bright; 38.5; 168; 17Zet Aql ; 2.99; 11000;occ; 77; 0;12681
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26; 4644.9; 03-AUG-2004 00:37:37; Dark ; 43.5; 176; 23Zet Tau ; 3.02; 22000;occ; 87; 0;12681
27; 4801.3; 03-AUG-2004 00:40:13; Dark ; 64.5; 13; 87Alp Tau ; 0.87; 3800;occ; 129; 0;12681
28; 4916.9; 03-AUG-2004 00:42:09; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;12681
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3; -4465.4; 02-AUG-2004 17:03:59; Bright; 53.5; 142; 49Del Cap ; 2.85; 8900;occ; 107; 0;12677
4; -4219.9; 02-AUG-2004 17:08:04; Bright; 53.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 106; 0;12677
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9; -3236.5; 02-AUG-2004 17:24:28; Bright; 43.0; 69; 33Gam Dra ; 2.23; 3800;occ; 86; 0;12677
10; -2990.9; 02-AUG-2004 17:28:33; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;12677
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15; -1897.9; 02-AUG-2004 17:46:46; Bright; 86.0; 73; 57Gam1And ; 2.26; 13100;occ; 172; 0;12677
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23	-867.3	20-AUG-2004	16:57:48	Dark	;	54.5	30	46Eps Ori	;	1.69	30000	occ	109	;	0	12934
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26	-563.9	20-AUG-2004	17:02:52	Dark	;	43.5	23	21Eps CMa	;	1.50	26000	occ	87	;	0	12934
27	-451.2	20-AUG-2004	17:04:44	Dark	;	47.0	117	Pi Pup	;	2.71	3800	occ	94	;	0	12934
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30	291.5	20-AUG-2004	17:17:07	Dark	;	55.0	157	The1Eri	;	2.91	9300	occ	110	;	0	12935
31	502.1	20-AUG-2004	17:20:38	Dark	;	45.5	9	Alp Eri	;	0.45	24000	occ	91	;	0	12935
32	854.4	20-AUG-2004	17:26:30	Dark	;	56.0	84	Alp Phe	;	2.40	4500	occ	112	;	0	12935
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4	-4239.4	20-AUG-2004	17:42:12	Bright	;	42.5	154	22Bet Aqr	;	2.90	5700	occ	85	;	0	12935
5	-4129.4	20-AUG-2004	17:44:02	Bright	;	46.5	162	34Alp Aqr	;	2.94	5350	occ	93	;	0	12935
6	-3962.8	20-AUG-2004	17:46:49	Bright	;	37.0	11	53Alp Aql	;	0.76	8000	occ	74	;	0	12935
7	-3840.4	20-AUG-2004	17:48:51	Bright	;	37.0	168	17Zet Aql	;	2.99	11000	occ	74	;	0	12935
8	-3545.9	20-AUG-2004	17:53:46	Bright	;	37.5	92	53Eps Cyg	;	2.50	4500	occ	75	;	0	12935
9	-3445.7	20-AUG-2004	17:55:26	Bright	;	39.0	66	37Gam Cyg	;	2.21	5900	occ	78	;	0	12935
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11	-3158.6	20-AUG-2004	18:00:13	Bright	;	41.5	69	33Gam Dra	;	2.23	3800	occ	83	;	0	12935
12	-3040.9	20-AUG-2004	18:02:11	Bright	;	43.0	89	5Alp Cep	;	2.45	8000	occ	86	;	0	12935
13	-2786.3	20-AUG-2004	18:06:25	Bright	;	49.0	74	11Bet Cas	;	2.27	6600	occ	98	;	0	12935
14	-2666.6	20-AUG-2004	18:08:25	Bright	;	38.5	60	7Bet UMi	;	2.08	3950	occ	77	;	0	12935
15	-2206.4	20-AUG-2004	18:16:05	Bright	;	56.0	160	23Gam Per	;	2.93	4700	occ	112	;	0	12935
16	-2081.1	20-AUG-2004	18:18:10	Bright	;	61.0	35	33Alp Per	;	1.79	6250	occ	122	;	0	12935
17	-1851.8	20-AUG-2004	18:22:00	Bright	;	54.0	6	13Alp Aur	;	0.08	3400	occ	108	;	0	12935
18	-1757.9	20-AUG-2004	18:23:34	Bright	;	65.0	149	45Eps Per	;	2.89	30000	occ	130	;	0	12935
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20	-1298.5	20-AUG-2004	18:31:13	Dark	;	47.0	44	24Gam Gem	;	1.93	11000	occ	94	;	0	12935
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11;-2654.8; 23-AUG-2004 11:31:58; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;12974
12;-2260.0; 23-AUG-2004 11:38:33; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;12974
13;-2106.8; 23-AUG-2004 11:41:06; Bright; 61.5; 35; 33Alp Per ; 1.79; 6250;occ; 123; 0;12974
14;-1807.1; 23-AUG-2004 11:46:06; Dark ; 255.0; 173; 4Bet Tri ; 3.00; 8900;occ; 510; 0;12974
15;-1460.9; 23-AUG-2004 11:51:52; Dark ; 59.0; 28; 12Bet Tau ; 1.65; 15200;occ; 118; 0;12974
16;-1286.2; 23-AUG-2004 11:54:47; Dark ; 46.0; 44; 24Gam Gem ; 1.93; 11000;occ; 92; 0;12974
17;-1196.1; 23-AUG-2004 11:56:17; Dark ; 41.0; 153; 3Bet CMi ; 2.89; 13100;occ; 82; 0;12974
18;-1050.6; 23-AUG-2004 11:58:42; Dark ; 58.0; 14; 58Alp Ori ; 0.87; 3000;occ; 116; 0;12974
19; -953.5; 23-AUG-2004 12:00:19; Dark ; 62.5; 27; 24Gam Ori ; 1.64; 26000;occ; 125; 0;12974
20; -837.5; 23-AUG-2004 12:02:15; Dark ; 56.5; 30; 46Eps Ori ; 1.69; 30000;occ; 113; 0;12974
21; -726.0; 23-AUG-2004 12:04:07; Dark ; 55.0; 1; 9Alp CMA ; -1.44; 11000;occ; 110; 0;12974
22; -632.5; 23-AUG-2004 12:05:40; Dark ; 75.5; 7; 19Bet Ori ; 0.10; 14000;occ; 151; 0;12974
23; -423.7; 23-AUG-2004 12:09:09; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;12974
24; -313.0; 23-AUG-2004 12:11:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12974
25; -140.1; 23-AUG-2004 12:13:53; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;12974
26; 340.9; 23-AUG-2004 12:21:54; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;12975
27; 527.8; 23-AUG-2004 12:25:01; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;12975
28; 833.0; 23-AUG-2004 12:30:06; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;12975
29; 971.1; 23-AUG-2004 12:32:24; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;12975
30; 1050.7; 23-AUG-2004 12:33:43; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;12975
31; 1291.9; 23-AUG-2004 12:37:45; Dark ; 54.5; 18; 24Alp PsA ; 1.17; 9700;occ; 109; 0;12975
32; 1602.7; 23-AUG-2004 12:42:55; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;12975
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1;-4433.2; 23-AUG-2004 12:42:55; Dark ; 46.5; 142; 49Del Cap ; 2.85; 8900;occ; 93; 0;12975
2;-4237.3; 23-AUG-2004 12:46:11; Bright; 42.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 84; 0;12975
3;-4134.0; 23-AUG-2004 12:47:55; Bright; 44.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 88; 0;12975
4;-3949.8; 23-AUG-2004 12:50:59; Bright; 41.0; 61; 8Eps Peg ; 2.10; 3900;occ; 82; 0;12975
5;-3707.3; 23-AUG-2004 12:55:01; Bright; 56.5; 90; 54Alp Peg ; 2.49; 11000;occ; 113; 0;12975
6;-3549.5; 23-AUG-2004 12:57:39; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;12975
7;-3445.2; 23-AUG-2004 12:59:23; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;12975
8;-3357.4; 23-AUG-2004 13:00:51; Bright; 41.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 82; 0;12975
9;-3046.3; 23-AUG-2004 13:06:02; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;12975
10;-2814.4; 23-AUG-2004 13:09:54; Bright; 46.5; 74; 11Bet Cas ; 2.27; 6600;occ; 93; 0;12975
11;-2654.0; 23-AUG-2004 13:12:35; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;12975
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