

# GOMOS Daily Report 12-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	14AUG2004 05:01:39
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (12AUG2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (13AUG2004 00:00:00)

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

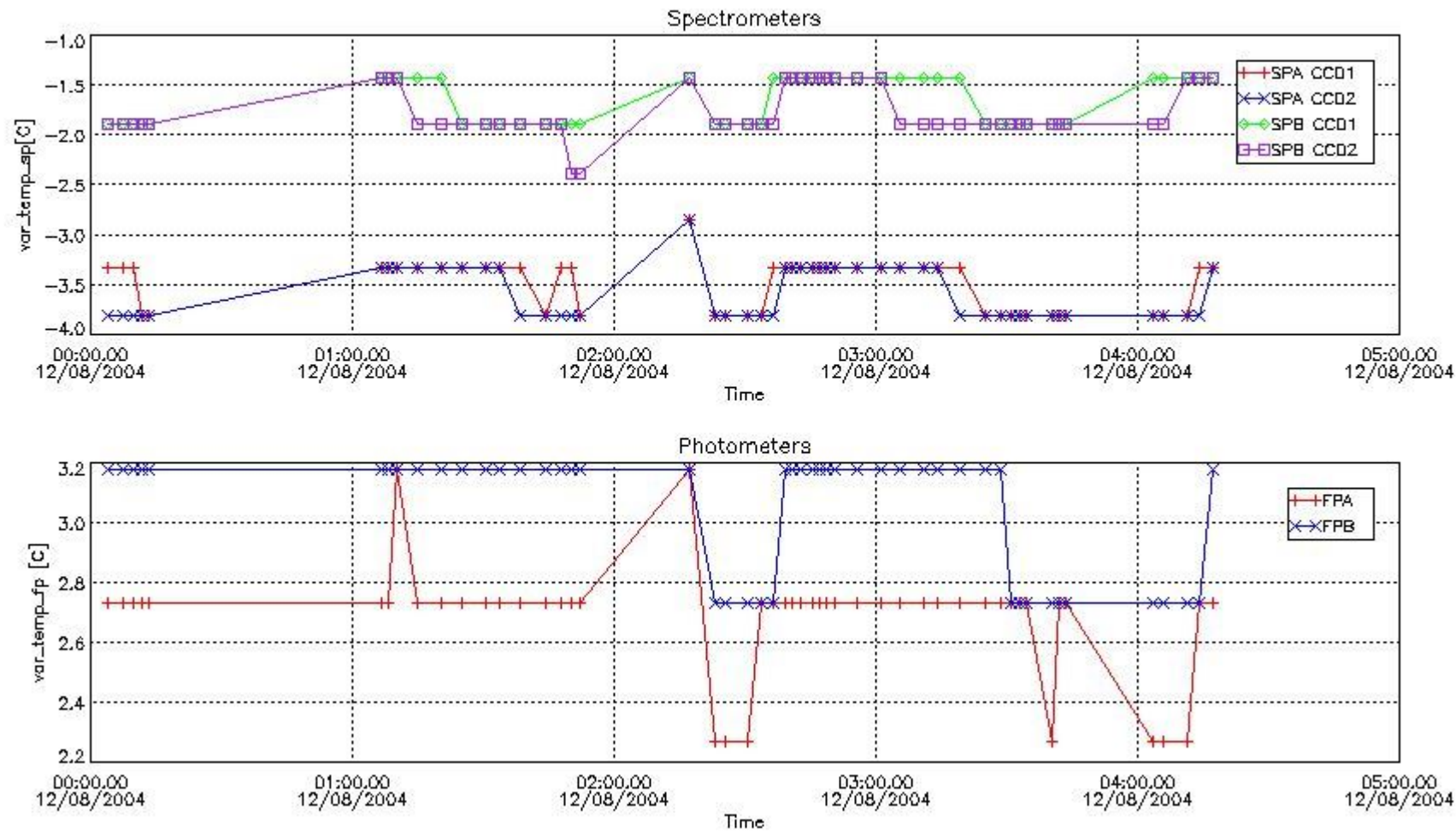
## *2. Summary of products arrived in PCF (Product Control Facility)*

### *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_1PNPDE20040812_000349_000000482029_00231_12810_0010.N1	12-AUG-2004 00:03:49	Bright	47.500	142	49Del Cap	2.8500	8900.0	95	12810	No
GOM_TRA_1PNPDE20040812_000726_000000472029_00231_12810_0011.N1	12-AUG-2004 00:07:26	Bright	46.500	154	22Bet Aqr	2.8990	5700.0	93	12810	No
GOM_TRA_1PNPDE20040812_000941_000000542029_00231_12810_0012.N1	12-AUG-2004 00:09:41	Bright	53.500	162	34Alp Aqr	2.9440	5350.0	107	12810	No
GOM_TRA_1PNPDE20040812_001144_000000372029_00231_12810_0013.N1	12-AUG-2004 00:11:44	Bright	36.500	11	53Alp Aql	0.76500	8000.0	73	12810	No
GOM_TRA_1PNPDE20040812_001328_000000372029_00231_12810_0014.N1	12-AUG-2004 00:13:28	Bright	36.500	168	17Zet Aql	2.9860	11000.	73	12810	No
GOM_TRA_1PNPDE20040812_010638_000000402029_00231_12810_0000.N1	12-AUG-2004 01:06:38	Dark	39.500	179	24Omi2CMa	3.0320	24000.	79	12810	No
GOM_TRA_1PNPDE20040812_010806_000000412029_00231_12810_0001.N1	12-AUG-2004 01:08:06	Dark	41.000	23	21Eps CMa	1.5020	26000.	82	12810	No
GOM_TRA_1PNPDE20040812_011010_000000452029_00231_12810_0002.N1	12-AUG-2004 01:10:10	Dark	44.500	117	Pi Pup	2.7060	3800.0	89	12810	No
GOM_TRA_1PNPDE20040812_011454_000000522029_00231_12810_0003.N1	12-AUG-2004 01:14:54	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	12810	No
GOM_TRA_1PNPDE20040812_012026_000000552029_00232_12811_0004.N1	12-AUG-2004 01:20:26	Dark	54.500	157	The1Eri	2.9060	9300.0	109	12811	No
GOM_TRA_1PNPDE20040812_012458_000000472029_00232_12811_0005.N1	12-AUG-2004 01:24:58	Dark	46.500	9	Alp Eri	0.45300	24000.	93	12811	No
GOM_TRA_1PNPDE20040812_013032_000000692029_00232_12811_0006.N1	12-AUG-2004 01:30:32	Twilight	69.000	84	Alp Phe	2.3970	4500.0	138	12811	No
GOM_TRA_1PNPDE20040812_013336_000000542029_00232_12811_0007.N1	12-AUG-2004 01:33:36	Twilight	54.000	63	Bet Gru	2.1500	2800.0	108	12811	No
GOM_TRA_1PNPDE20040812_013826_000000622029_00232_12811_0008.N1	12-AUG-2004 01:38:26	Bright	61.500	18	24Alp PsA	1.1660	9700.0	123	12811	No
GOM_TRA_1PNPDE20040812_014425_000000472029_00232_12811_0009.N1	12-AUG-2004 01:44:25	Bright	46.500	142	49Del Cap	2.8500	8900.0	93	12811	No
GOM_TRA_1PNPDE20040812_014801_000000462029_00232_12811_0010.N1	12-AUG-2004 01:48:01	Bright	45.500	154	22Bet Aqr	2.8990	5700.0	91	12811	No
GOM_TRA_1PNPDE20040812_015016_000000542029_00232_12811_0011.N1	12-AUG-2004 01:50:16	Bright	54.000	162	34Alp Aqr	2.9440	5350.0	108	12811	No
GOM_TRA_1PNPDE20040812_015220_000000382029_00232_12811_0012.N1	12-AUG-2004 01:52:20	Bright	37.500	11	53Alp Aql	0.76500	8000.0	75	12811	No
GOM_TRA_1PNPDE20040812_021721_000000512029_00232_12811_0000.N1	12-AUG-2004 02:17:21	Bright	50.500	110	37Del Cas	2.6780	8900.0	101	12811	No
GOM_TRA_1PNPDE20040812_022307_000000532029_00232_12811_0001.N1	12-AUG-2004 02:23:07	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	12811	No
GOM_TRA_1PNPDE20040812_022520_000002552029_00232_12811_0002.N1	12-AUG-2004 02:25:20	Bright	255.00	53	43Bet And	2.0480	3300.0	510	12811	No
GOM_TRA_1PNPDE20040812_023042_000000432029_00232_12811_0003.N1	12-AUG-2004 02:30:42	Twilight	43.000	107	37The Aur	2.6490	11000.	86	12811	No
GOM_TRA_1PNPDE20040812_023342_000000562029_00232_12811_0004.N1	12-AUG-2004 02:33:42	Twilight	55.500	28	12Bet Tau	1.6500	15200.	111	12811	No
GOM_TRA_1PNPDE20040812_023627_000000452029_00232_12811_0005.N1	12-AUG-2004 02:36:27	Twilight	45.000	44	24Gam Gem	1.9280	11000.	90	12811	No
GOM_TRA_1PNPDE20040812_023908_000000782029_00232_12811_0006.N1	12-AUG-2004 02:39:08	Twilight	78.000	13	87Alp Tau	0.86700	3800.0	156	12811	No
GOM_TRA_1PNPDE20040812_024057_000000492029_00232_12811_0007.N1	12-AUG-2004 02:40:57	Dark	49.000	27	24Gam Ori	1.6360	26000.	98	12811	No
GOM_TRA_1PNPDE20040812_024253_000000492029_00232_12811_0008.N1	12-AUG-2004 02:42:53	Dark	48.500	30	46Eps Ori	1.6940	30000.	97	12811	No
GOM_TRA_1PNPDE20040812_024533_000000462029_00232_12811_0009.N1	12-AUG-2004 02:45:33	Dark	46.000	1	9Alp CMa	-1.4400	11000.	92	12811	No
GOM_TRA_1PNPDE20040812_024712_000000442029_00232_12811_0010.N1	12-AUG-2004 02:47:12	Dark	43.500	179	24Omi2CMa	3.0320	24000.	87	12811	No
GOM_TRA_1PNPDE20040812_024841_000000442029_00232_12811_0011.N1	12-AUG-2004 02:48:41	Dark	44.000	23	21Eps CMa	1.5020	26000.	88	12811	No
GOM_TRA_1PNPDE20040812_025046_000000452029_00232_12811_0012.N1	12-AUG-2004 02:50:46	Dark	44.500	117	Pi Pup	2.7060	3800.0	89	12811	No
GOM_TRA_1PNPDE20040812_025530_000000422029_00232_12811_0013.N1	12-AUG-2004 02:55:30	Dark	41.500	2	Alp Car	-0.73600	7000.0	83	12811	No
GOM_TRA_1PNPDE20040812_030103_000000532029_00233_12812_0014.N1	12-AUG-2004 03:01:03	Dark	53.000	157	The1Eri	2.9060	9300.0	106	12812	No
GOM_TRA_1PNPDE20040812_030535_000000482029_00233_12812_0015.N1	12-AUG-2004 03:05:35	Dark	48.000	9	Alp Eri	0.45300	24000.	96	12812	No
GOM_TRA_1PNPDE20040812_031108_000000572029_00233_12812_0016.N1	12-AUG-2004 03:11:08	Twilight	56.500	84	Alp Phe	2.3970	4500.0	113	12812	No
GOM_TRA_1PNPDE20040812_031412_000000522029_00233_12812_0017.N1	12-AUG-2004 03:14:12	Twilight	52.000	63	Bet Gru	2.1500	2800.0	104	12812	No
GOM_TRA_1PNPDE20040812_031903_000000642029_00233_12812_0018.N1	12-AUG-2004 03:19:03	Bright	63.500	18	24Alp PsA	1.1660	9700.0	127	12812	No
GOM_TRA_1PNPDE20040812_032500_000000492029_00233_12812_0019.N1	12-AUG-2004 03:25:00	Bright	49.000	142	49Del Cap	2.8500	8900.0	98	12812	No
GOM_TRA_1PNPDE20040812_032837_000000462029_00233_12812_0020.N1	12-AUG-2004 03:28:37	Bright	45.500	154	22Bet Aqr	2.8990	5700.0	91	12812	No
GOM_TRA_1PNPDE20040812_033052_000000532029_00233_12812_0021.N1	12-AUG-2004 03:30:52	Bright	53.000	162	34Alp Aqr	2.9440	5350.0	106	12812	No
GOM_TRA_1PNPDE20040812_033255_000000382029_00233_12812_0022.N1	12-AUG-2004 03:32:55	Bright	37.500	11	53Alp Aql	0.76500	8000.0	75	12812	No
GOM_TRA_1PNPDE20040812_033440_000000382029_00233_12812_0023.N1	12-AUG-2004 03:34:40	Bright	37.500	168	17Zet Aql	2.9860	11000.	75	12812	No
GOM_TRA_1PNPDE20040812_034030_000000432029_00233_12812_0024.N1	12-AUG-2004 03:40:30	Bright	42.500	92	53Eps Cyg	2.5000	4500.0	85	12812	No
GOM_TRA_1PNPDE20040812_034200_000000402029_00233_12812_0025.N1	12-AUG-2004 03:42:00	Bright	40.000	66	37Gam Cyg	2.2080	5900.0	80	12812	No
GOM_TRA_1PNPDE20040812_034342_000000382029_00233_12812_0026.N1	12-AUG-2004 03:43:42	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	12812	No
GOM_TRA_1PNPDE20040812_040342_000000712029_00233_12812_0000.N1	12-AUG-2004 04:03:42	Bright	70.500	160	23Gam Per	2.9300	4700.0	141	12812	No
GOM_TRA_1PNPDE20040812_040553_000002552029_00233_12812_0001.N1	12-AUG-2004 04:05:53	Bright	255.00	53	43Bet And	2.0480	3300.0	510	12812	No
GOM_TRA_1PNPDE20040812_041118_000000412029_00233_12812_0002.N1	12-AUG-2004 04:11:18	Twilight	41.000	107	37The Aur	2.6490	11000.	82	12812	No
GOM_TRA_1PNPDE20040812_041418_000000512029_00233_12812_0003.N1	12-AUG-2004 04:14:18	Twilight	50.500	28	12Bet Tau	1.6500	15200.	101	12812	No

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



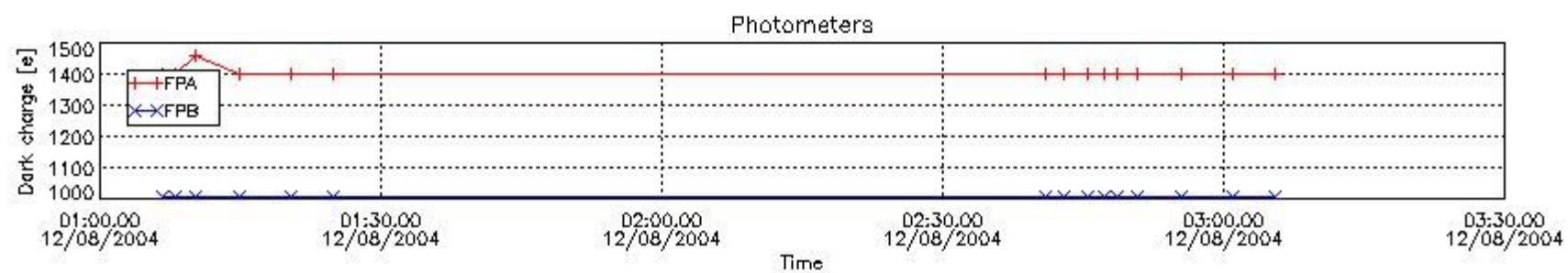
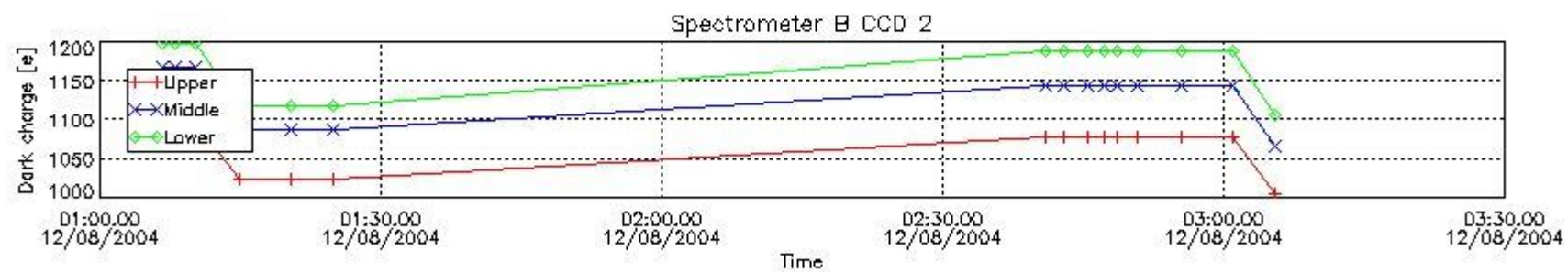
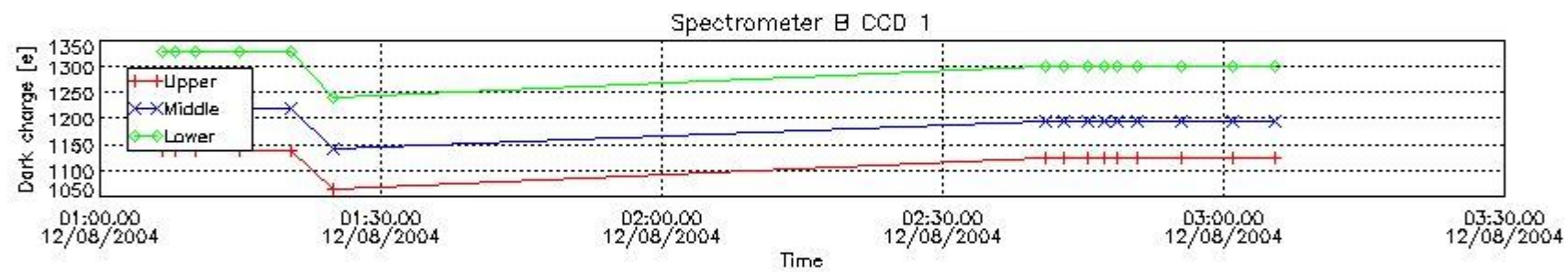
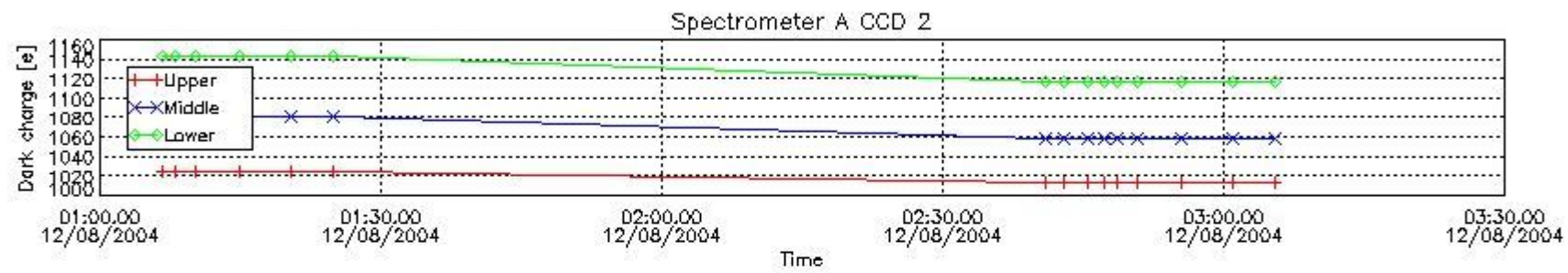
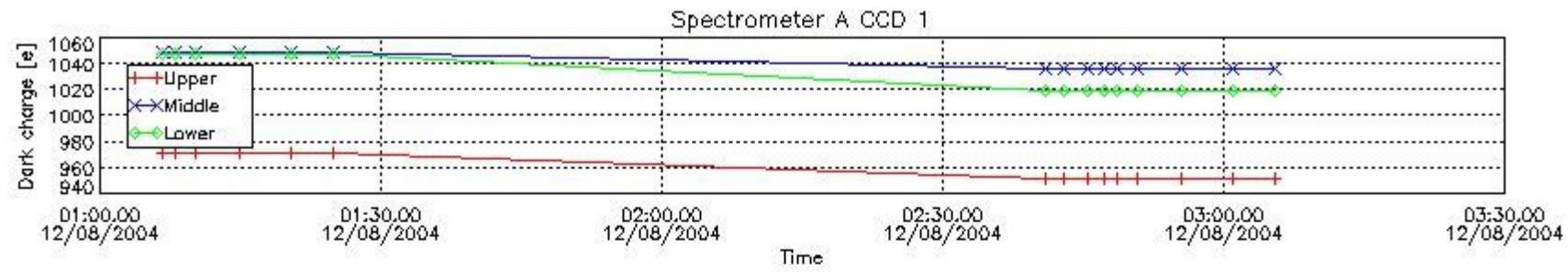
### 4. Overview of dark signal processing per product

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



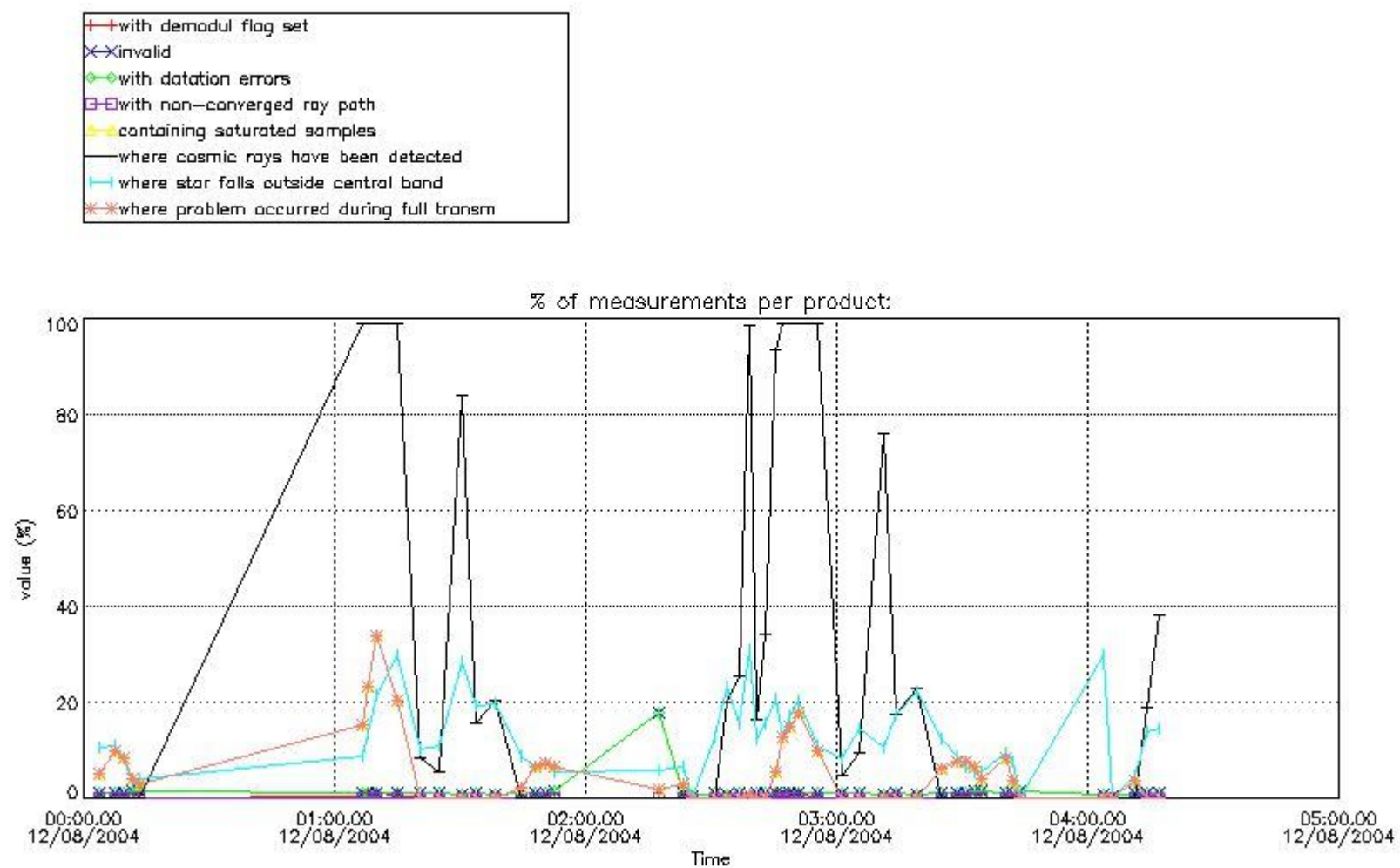
## 5. Demodulation flag and quality information monitoring

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.

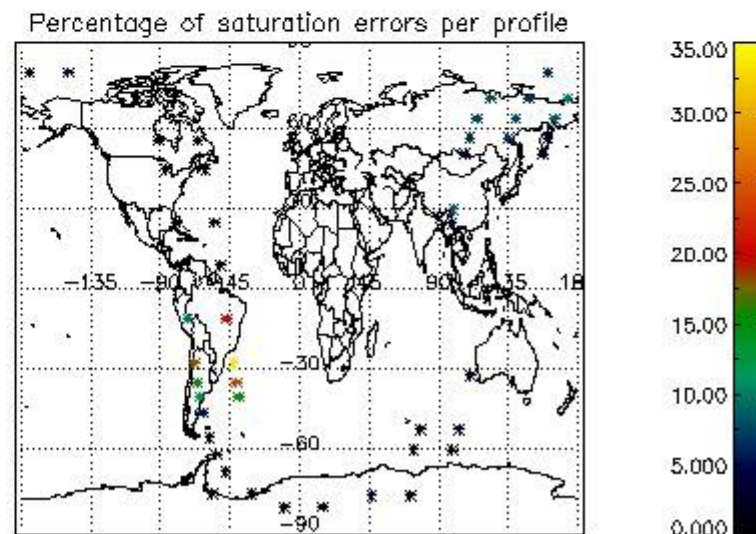
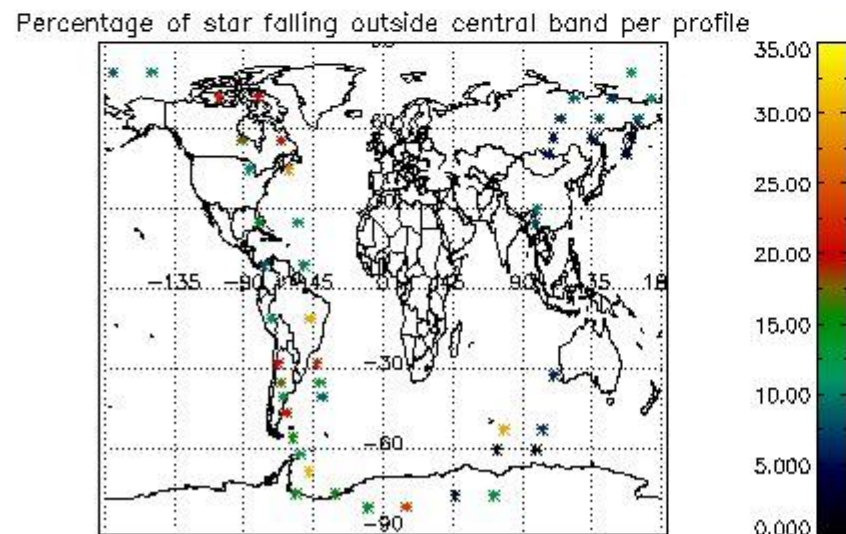
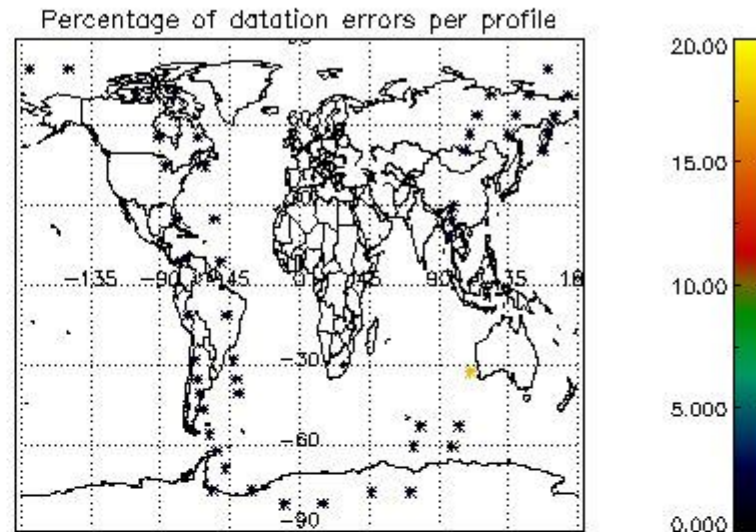
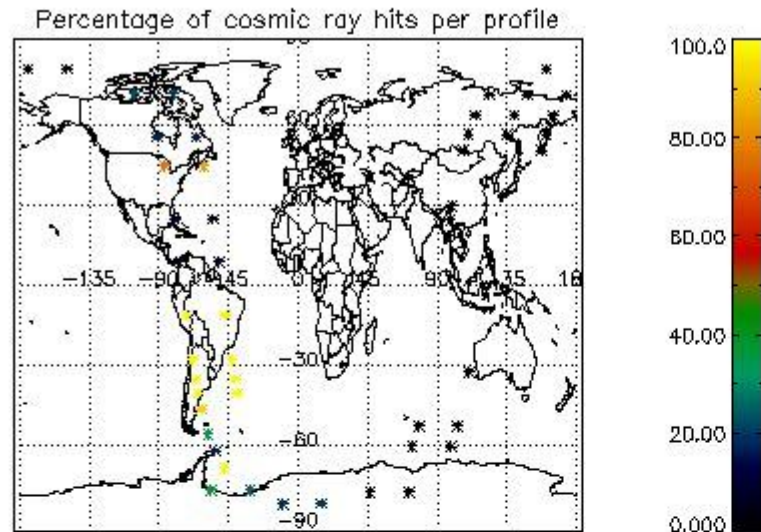
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.0000 %
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)



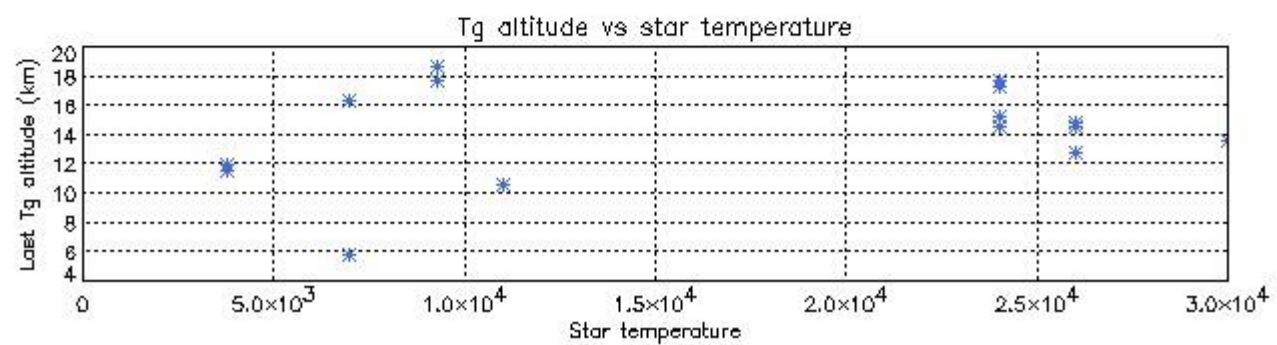
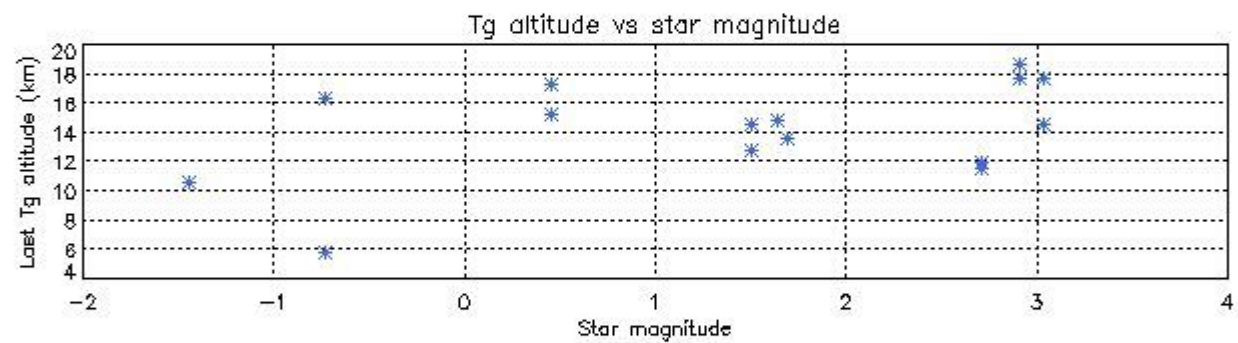
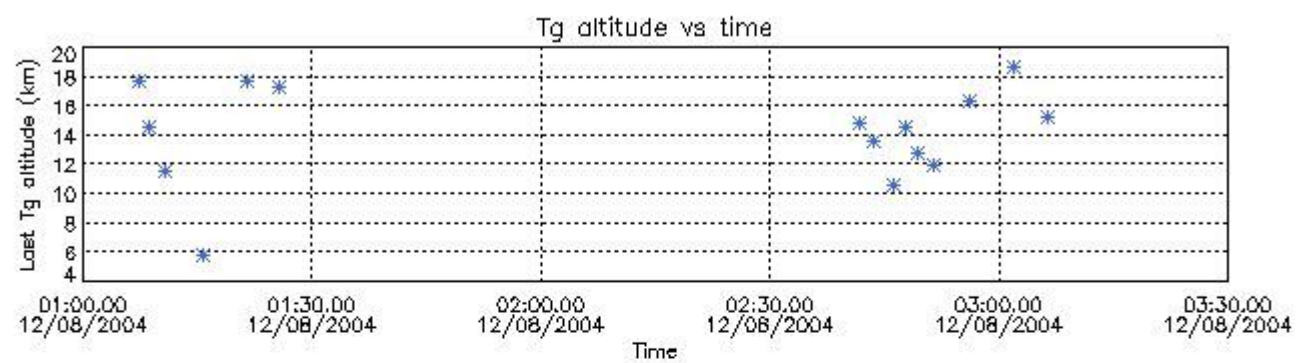
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.174	19.242	12.646
St. deviation:	3.3663	4.3630	4.6045
Maximum:	18.649	25.508	21.055
Minimum:	5.7350	6.9847	5.7290
Number of data:	15.000	24.000	11.000

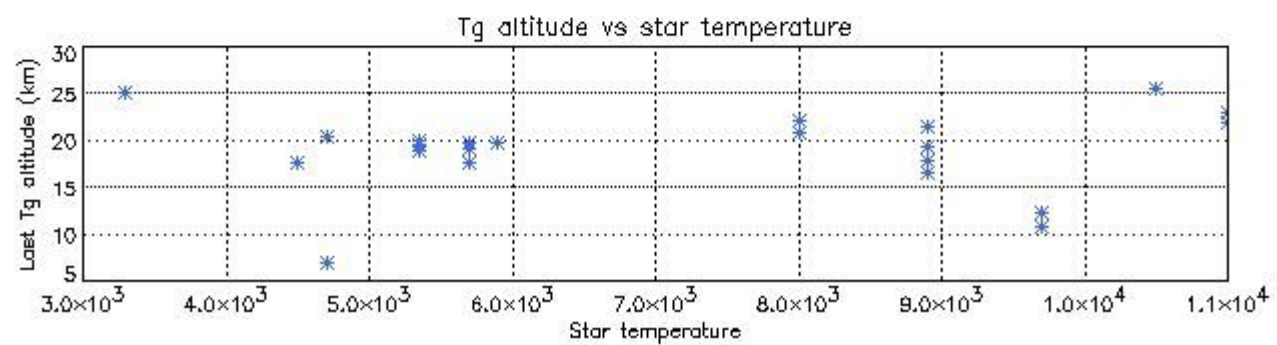
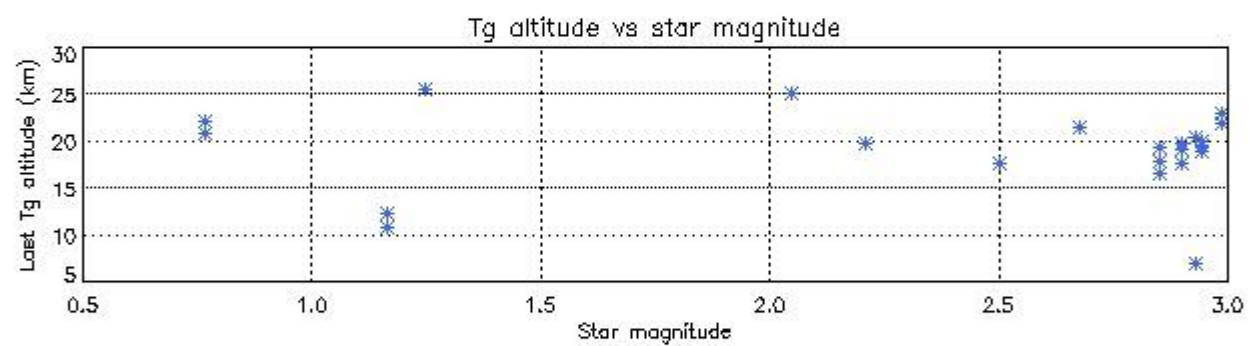
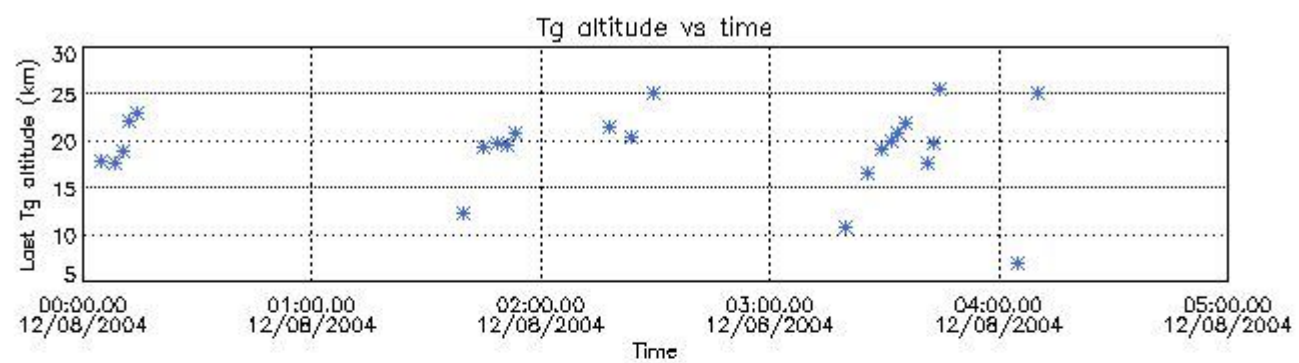
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

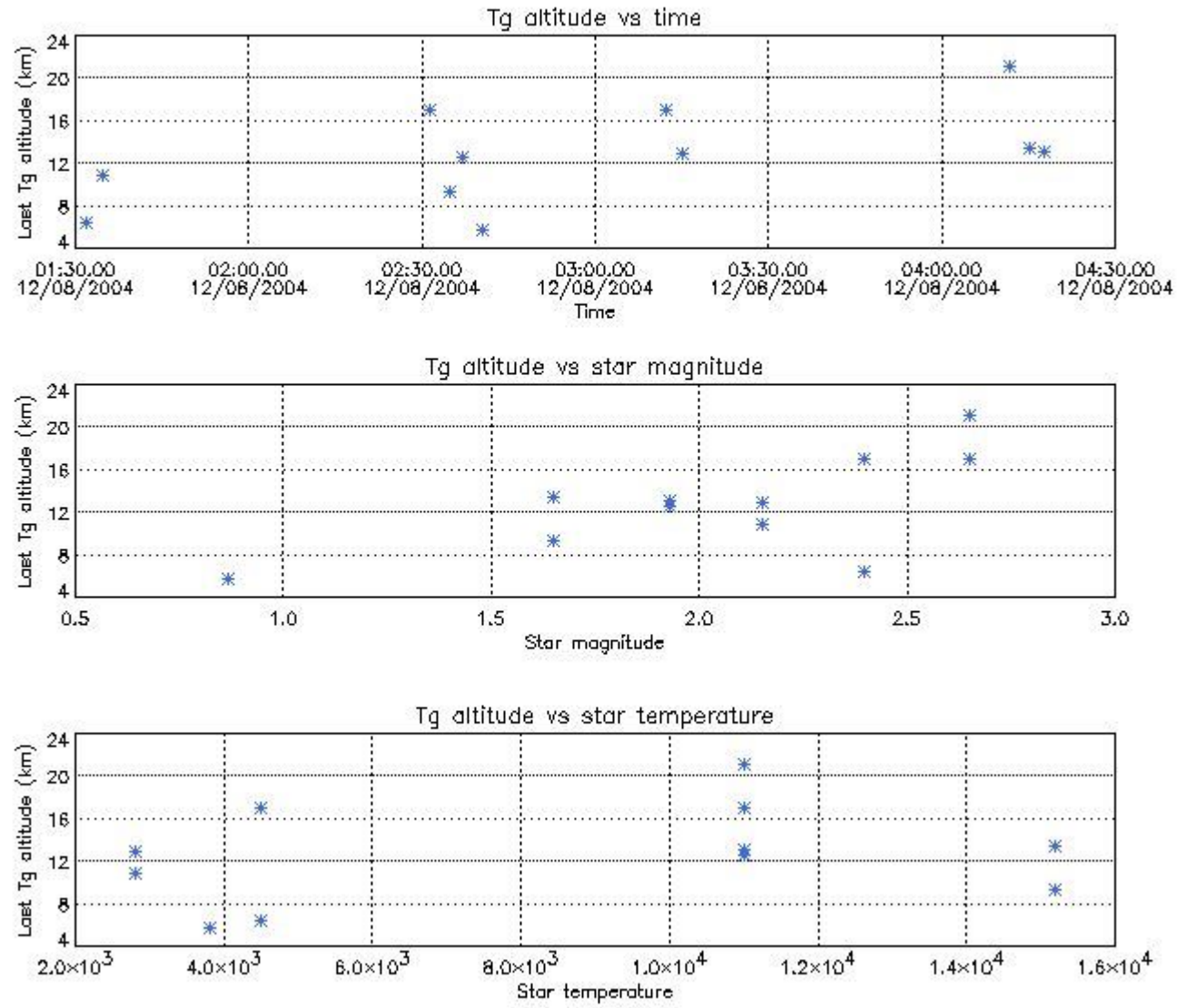
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



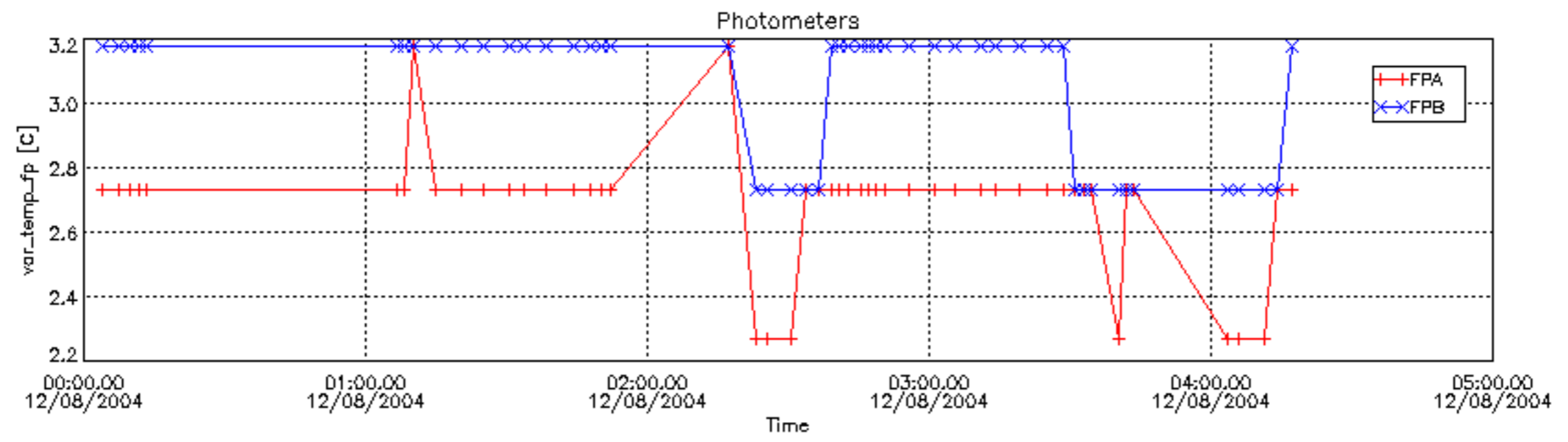
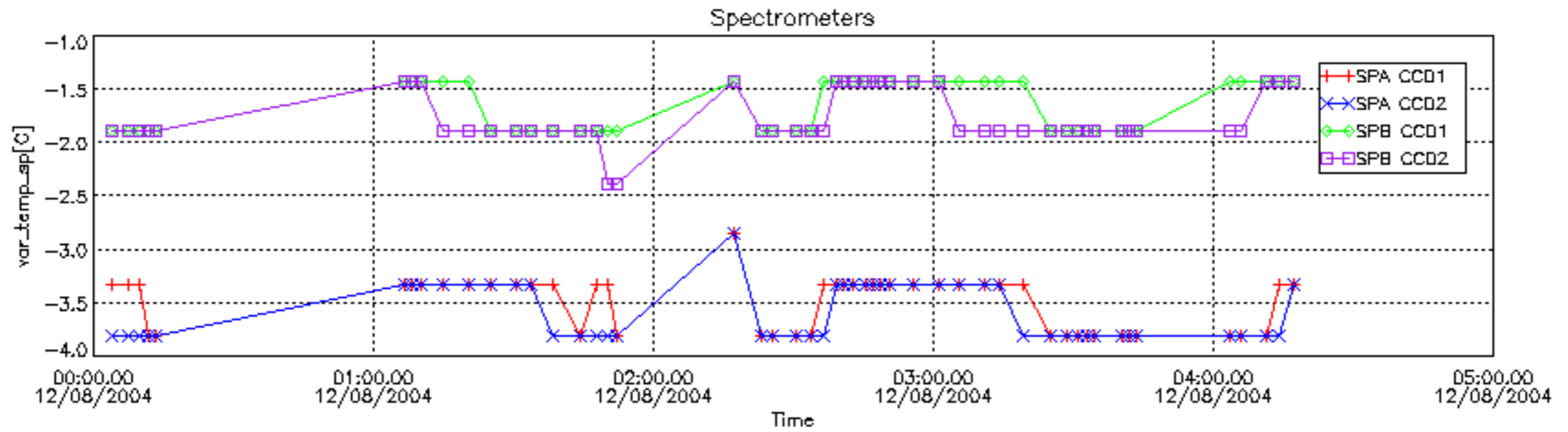
## Tangent altitude at which the star is lost

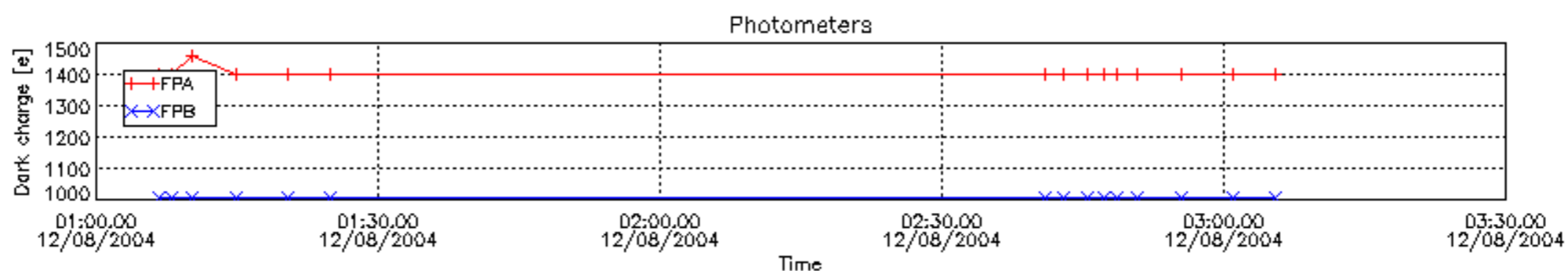
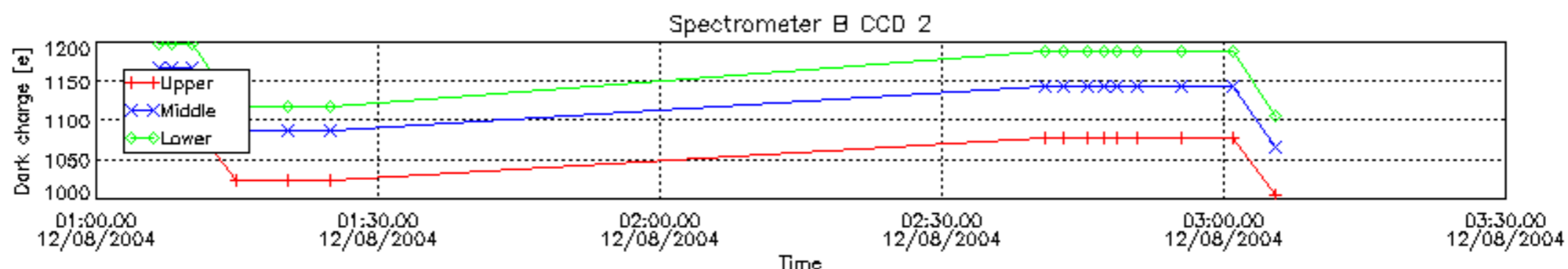
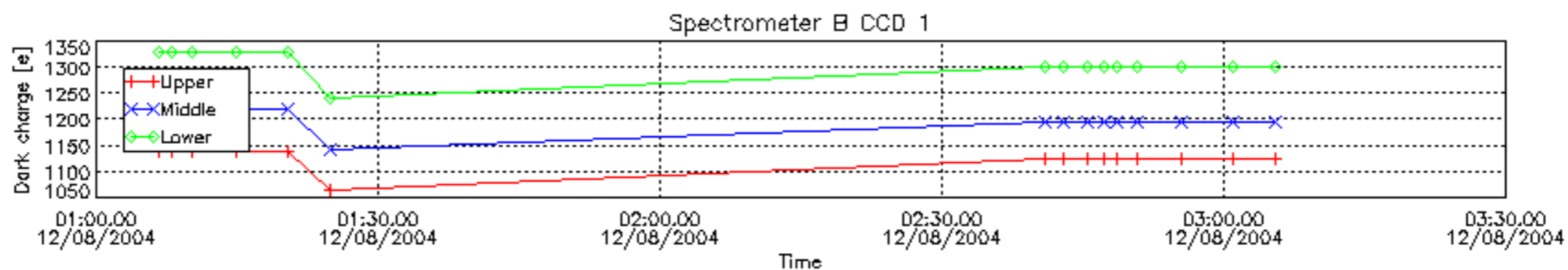
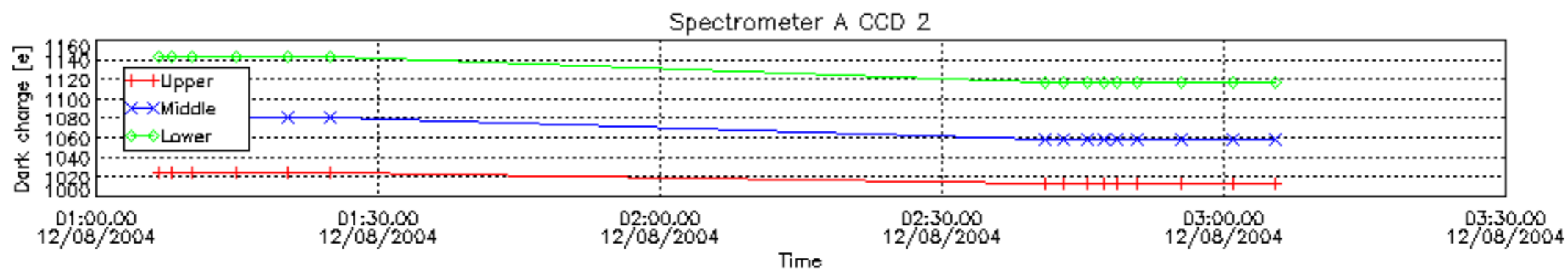
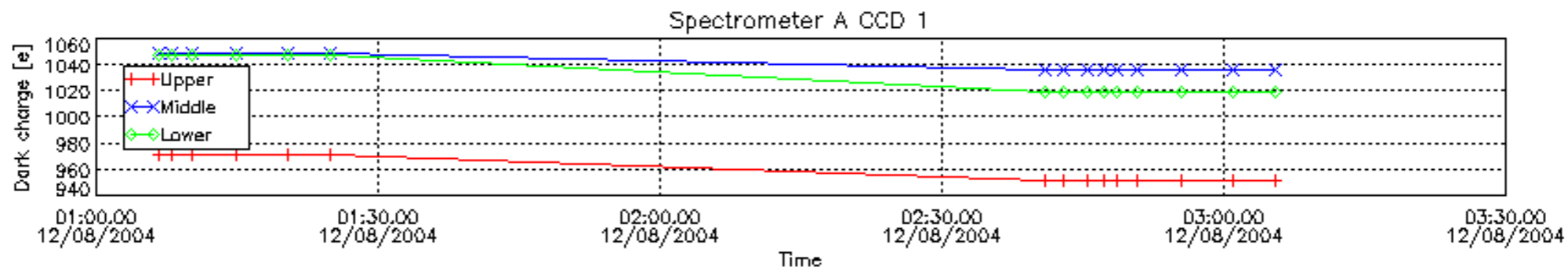


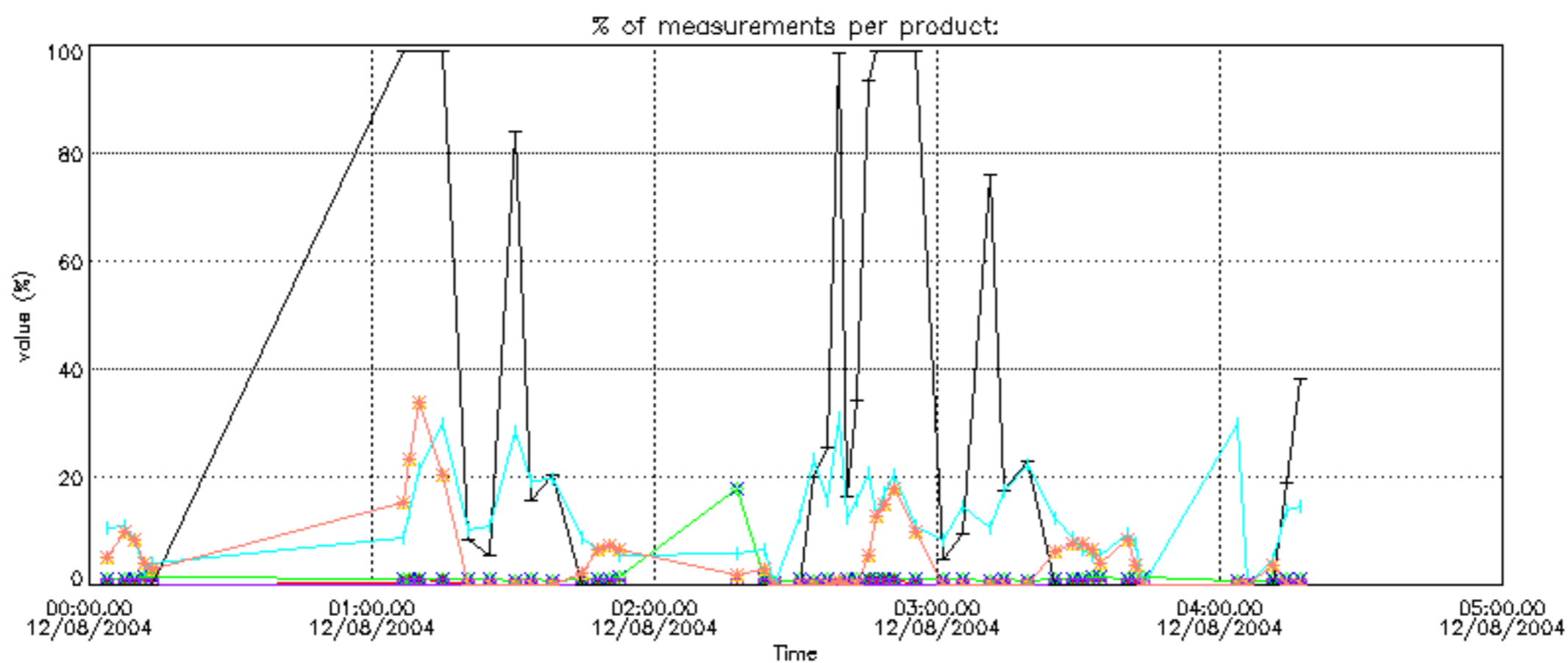
## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

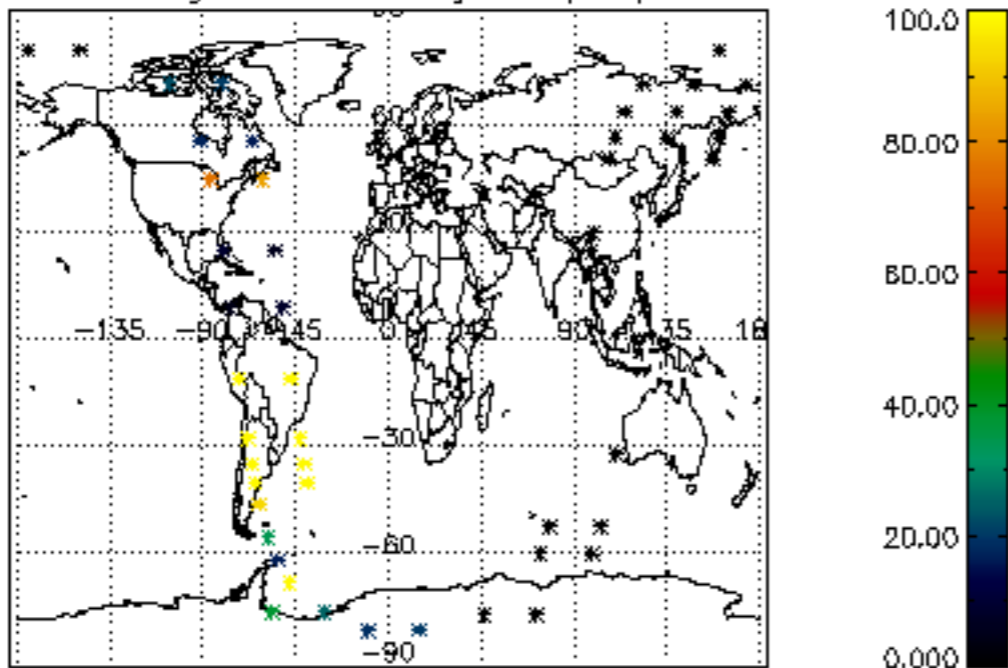
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.0	1445.8	1462.9	1448.5
St. deviation:	5.1180	6.3980	6.9763	7.6872
Maximum:	1506.0	1504.0	1510.0	1489.0
Minimum:	1457.0	1427.0	1444.0	1431.0
Number of data:	17750.	17750.	35500.	35500.



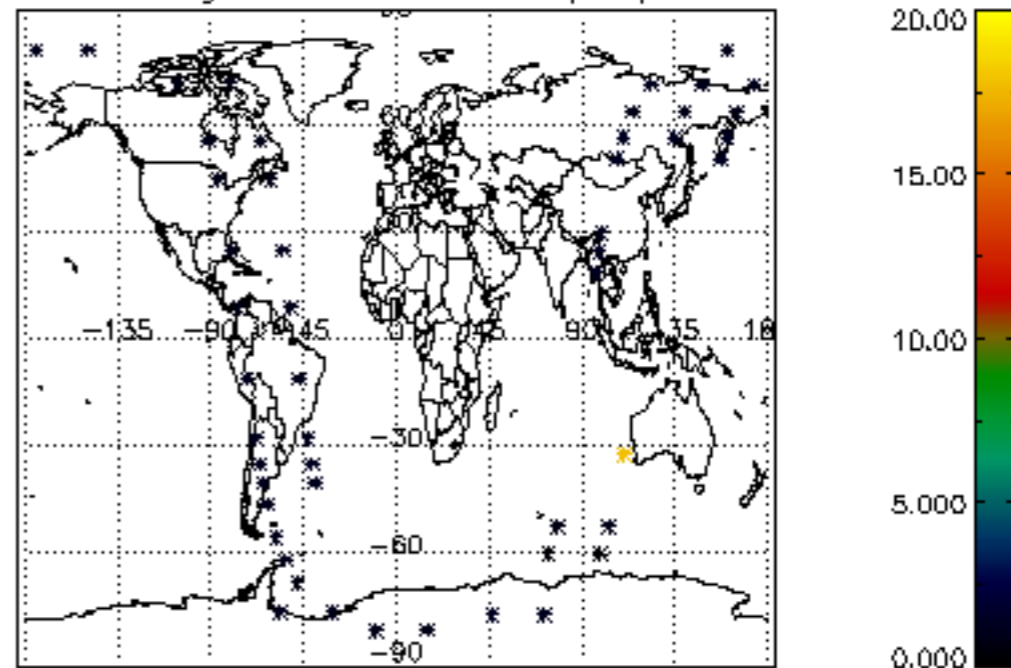




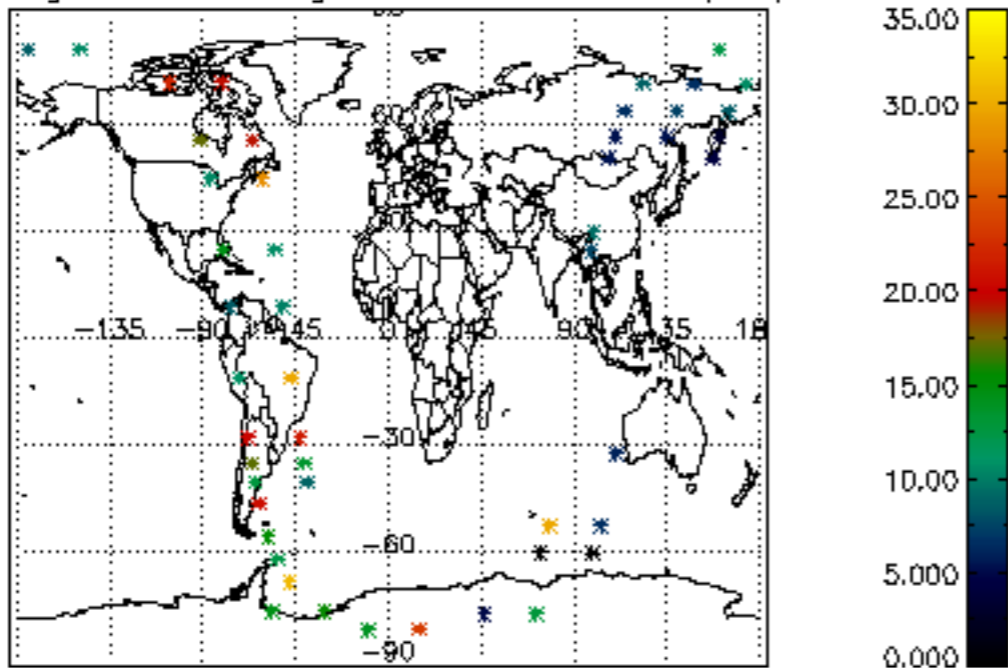
Percentage of cosmic ray hits per profile



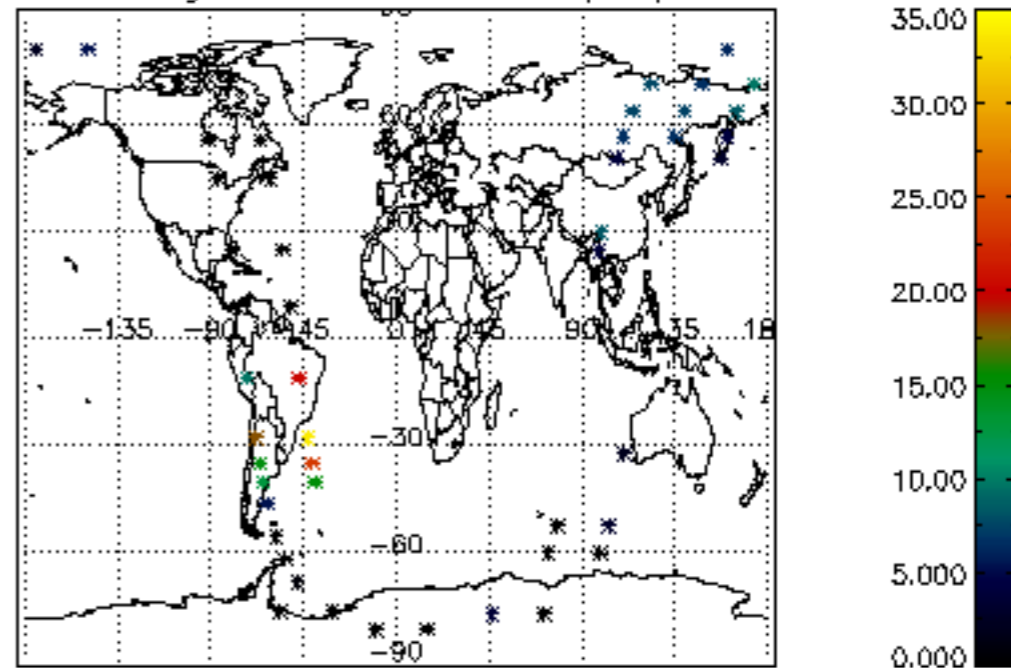
Percentage of datation errors per profile



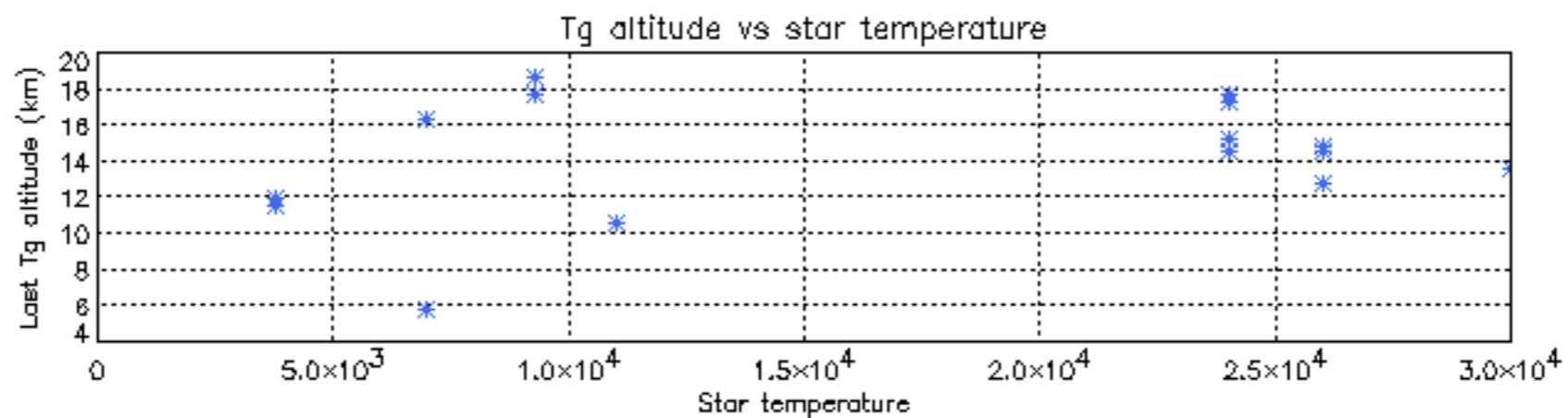
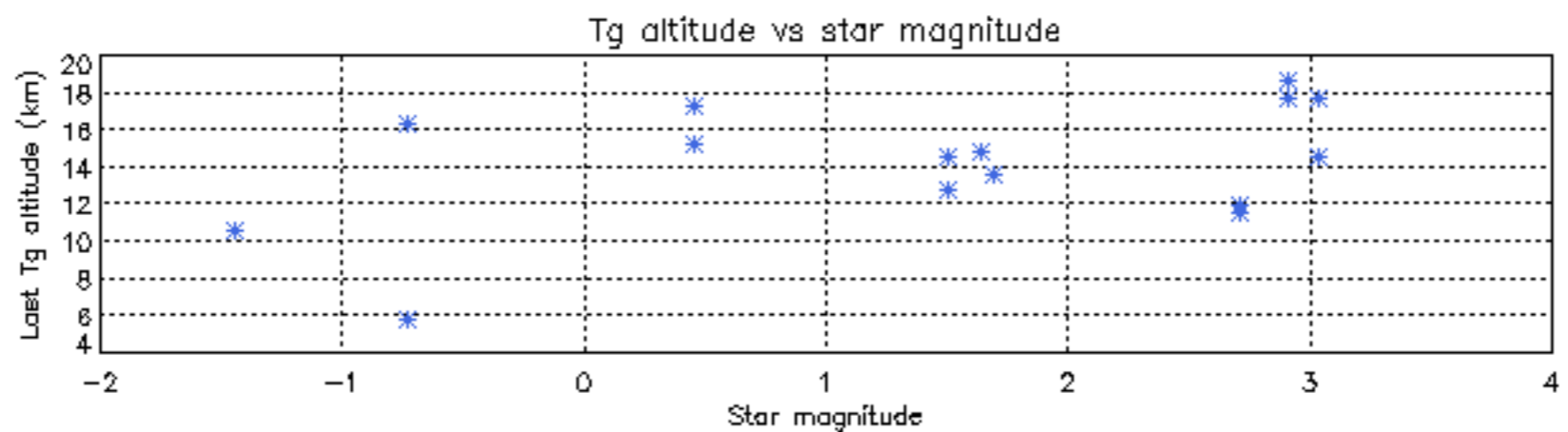
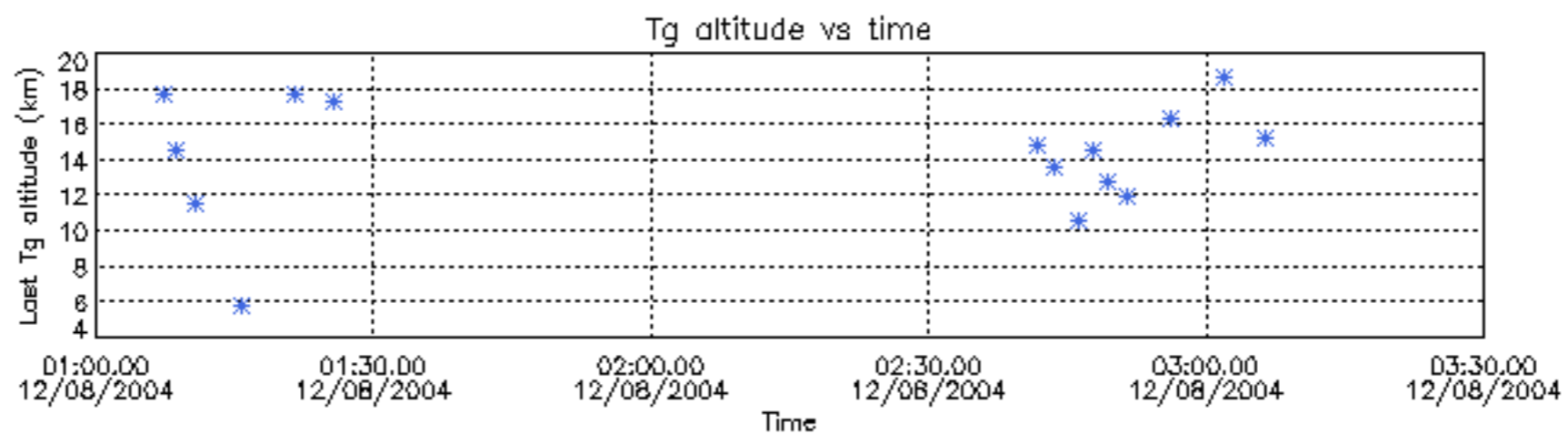
Percentage of star falling outside central band per profile



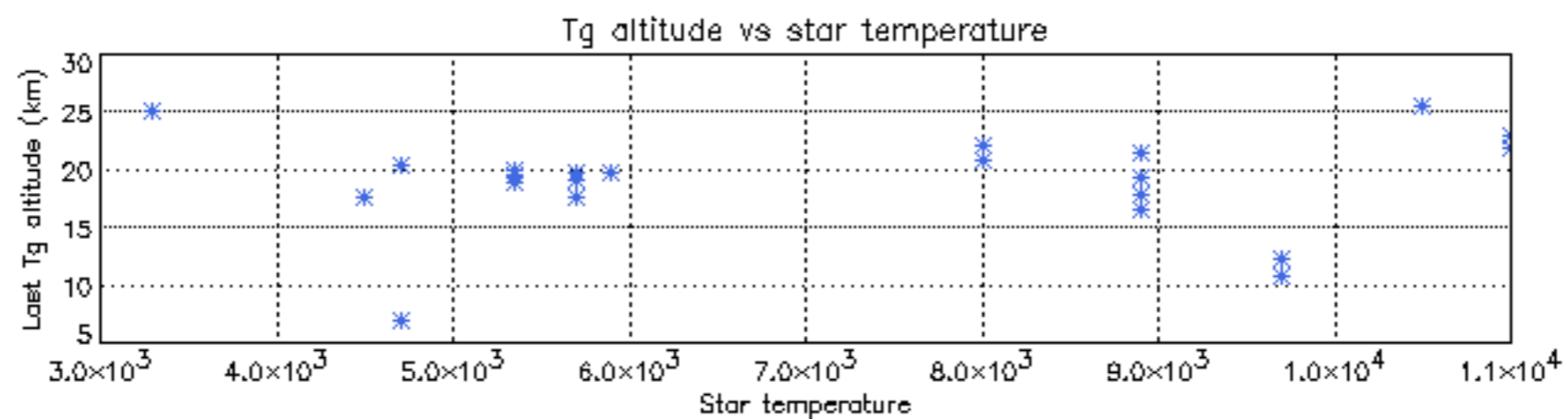
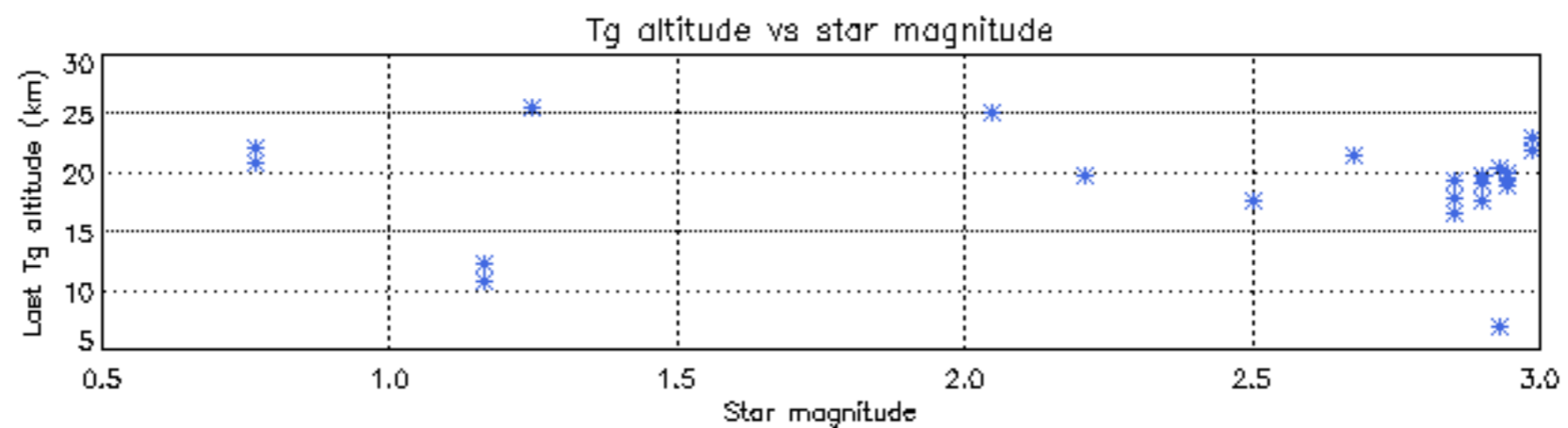
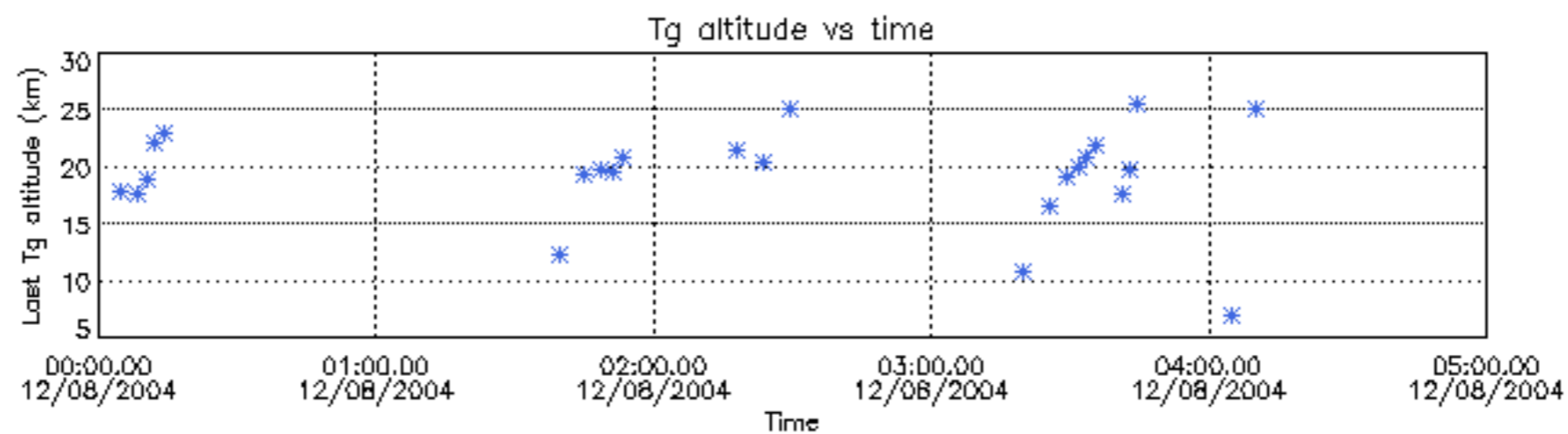
Percentage of saturation errors per profile



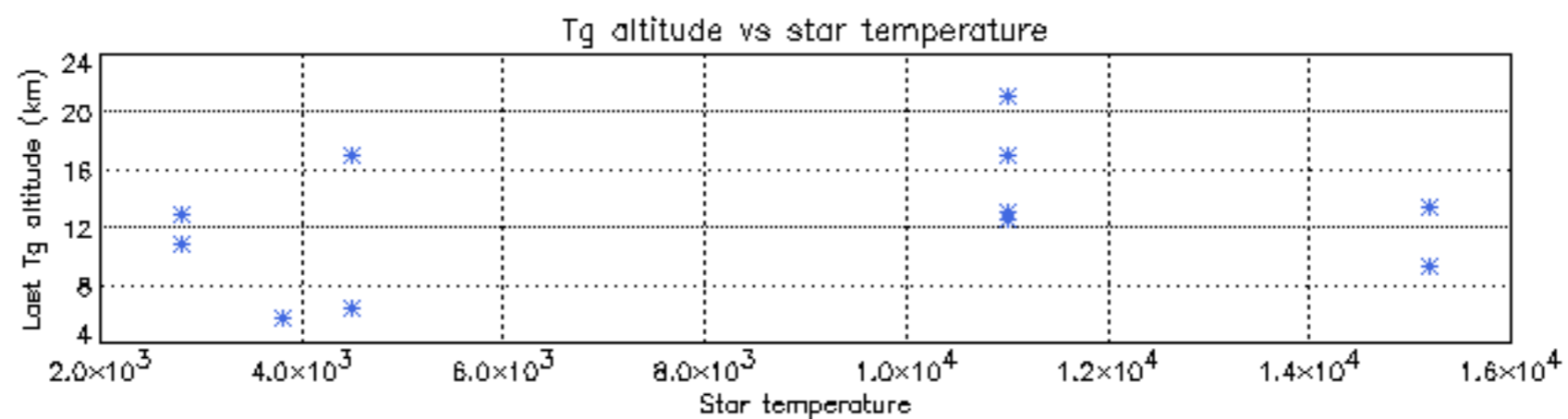
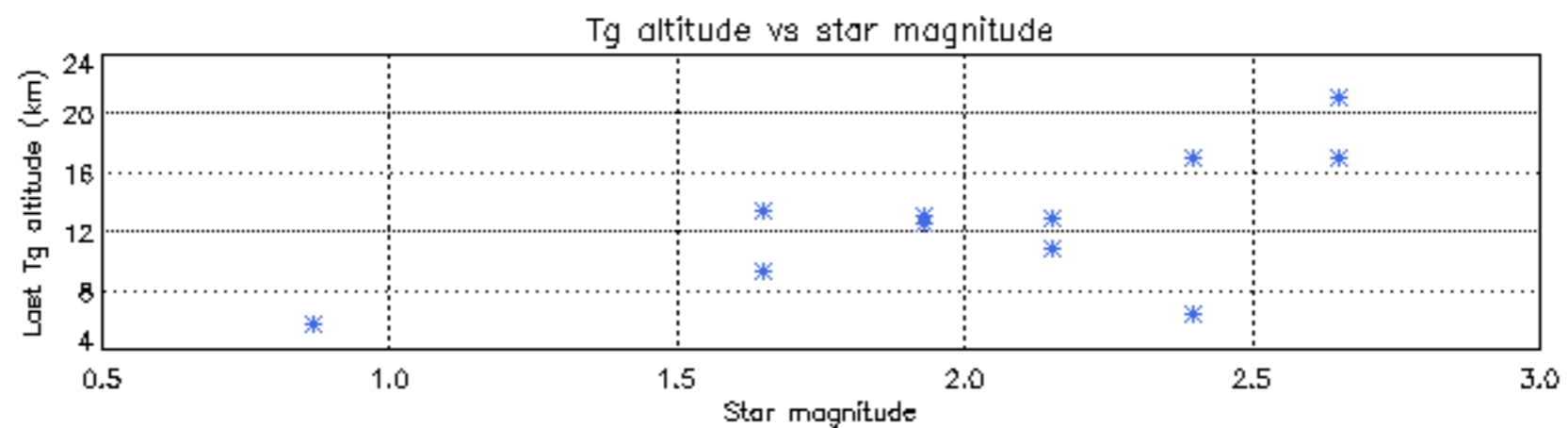
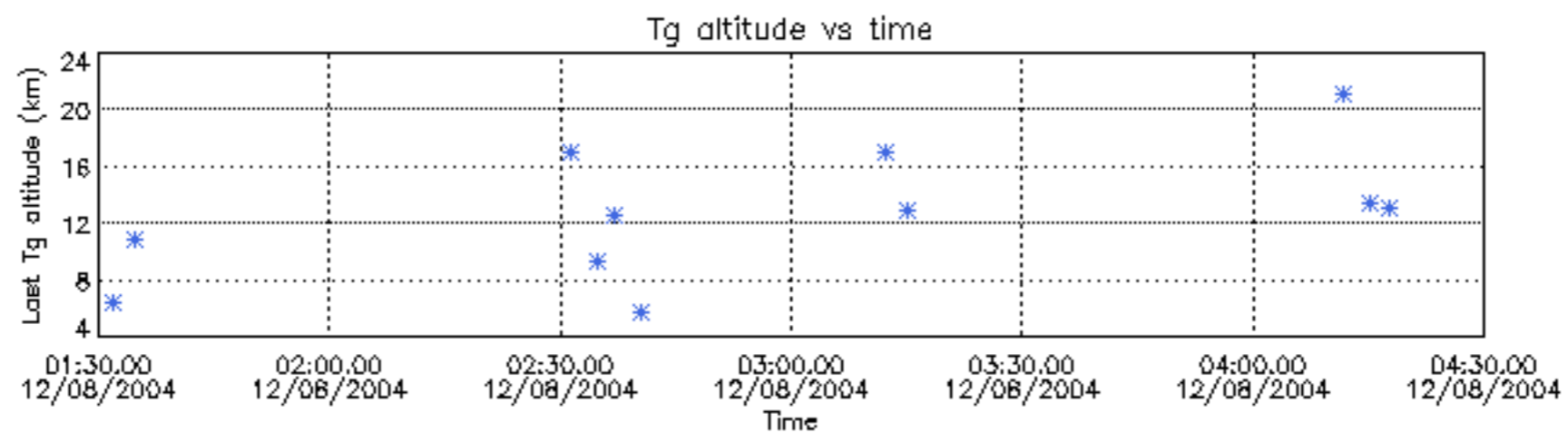
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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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
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12;-1895.3; 02-AUG-2004 09:23:49; Bright; 85.0; 73; 57Gam1And ; 2.26; 13100;occ; 170; 0;12672
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17;-1004.4; 02-AUG-2004 09:38:40; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;12672
18; -924.0; 02-AUG-2004 09:40:01; Dark ; 41.0; 125; 44Iot Ori ; 2.77; 30000;occ; 82; 0;12672
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
22; -285.4; 02-AUG-2004 09:50:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12672
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
25; 430.5; 02-AUG-2004 10:02:35; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;12673
26; 616.8; 02-AUG-2004 10:05:41; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;12673
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28; 862.1; 02-AUG-2004 10:09:47; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;12673
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5;-3347.4; 02-AUG-2004 10:40:13; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;12673
6;-3235.8; 02-AUG-2004 10:42:05; Bright; 41.0; 69; 33Gam Dra ; 2.23; 3800;occ; 82; 0;12673
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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9;-2596.7; 02-AUG-2004 10:52:44; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;12673
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13;-1737.4; 02-AUG-2004 11:07:03; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12673
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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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
30; 1416.0; 02-AUG-2004 11:59:36; Dark ; 44.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 88; 0;12674
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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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  
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 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  
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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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 33;-144767609.7; 01-JAN-2000 01:43:43; Dark ; 10.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 20; 0;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  
 8;-3235.7; 02-AUG-2004 15:43:53; Bright; 38.0; 69; 33Gam Dra ; 2.23; 3800;occ; 76; 0;12676  
 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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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
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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
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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