

# GOMOS Daily Report 15-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	17AUG2004 05:01:44
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (15AUG2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (16AUG2004 00:00:00)

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

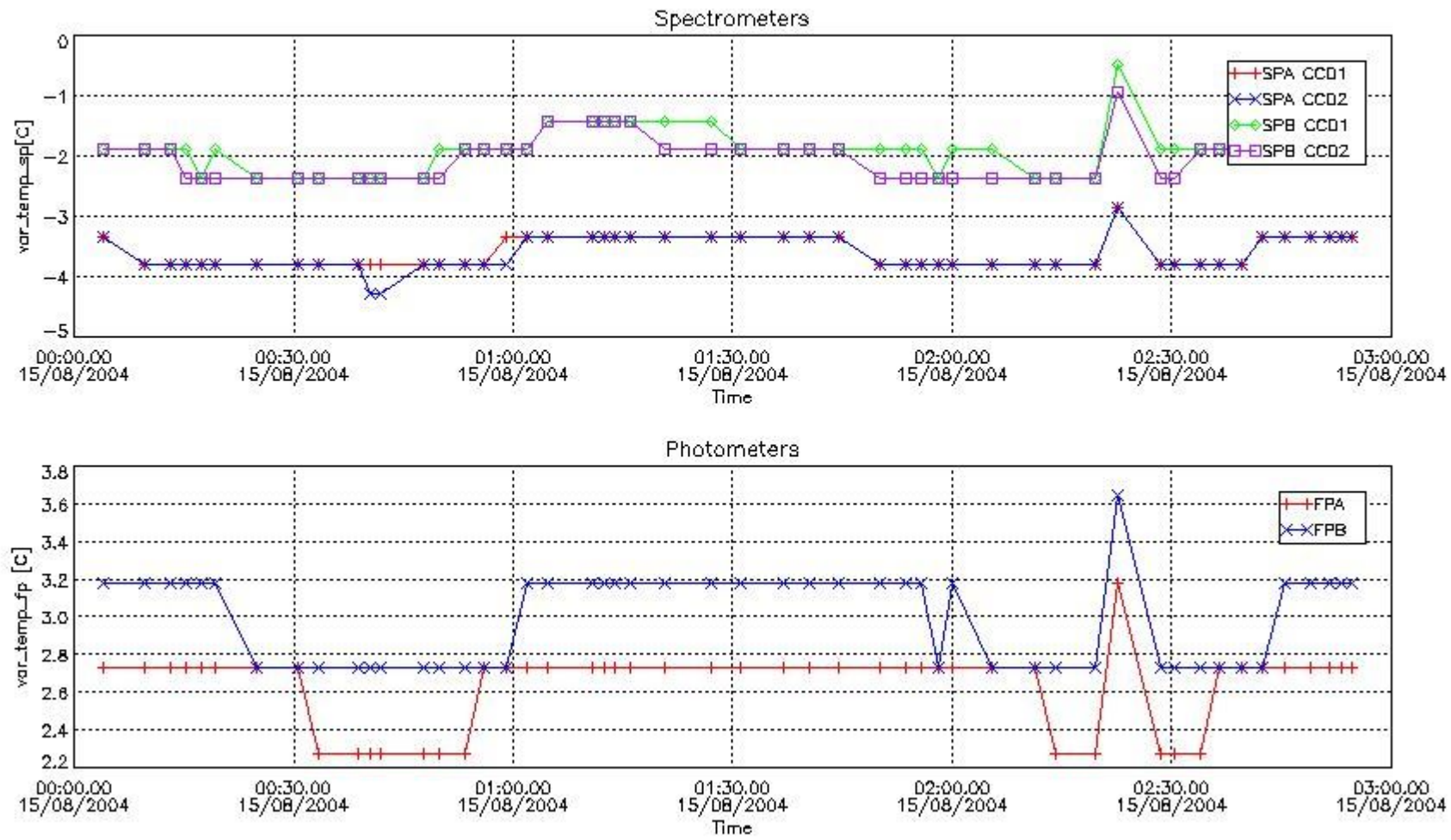
## 2. Summary of products arrived in PCF (Product Control Facility)

### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 Summary of processed GOM\_TRA\_1P products

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20040815_000353_000000602029_00274_12853_0008.N1	15-AUG-2004 00:03:53	Bright	59.500	18	24Alp PsA	1.1660	9700.0	119	12853	No
GOM_TRA_1PNPDE20040815_000937_000000462029_00274_12853_0009.N1	15-AUG-2004 00:09:37	Bright	46.000	142	49Del Cap	2.8500	8900.0	92	12853	No
GOM_TRA_1PNPDE20040815_001307_000000452029_00274_12853_0010.N1	15-AUG-2004 00:13:07	Bright	44.500	154	22Bet Aqr	2.8990	5700.0	89	12853	No
GOM_TRA_1PNPDE20040815_001513_000000512029_00274_12853_0011.N1	15-AUG-2004 00:15:13	Bright	51.000	162	34Alp Aqr	2.9440	5350.0	102	12853	No
GOM_TRA_1PNPDE20040815_001731_000000392029_00274_12853_0012.N1	15-AUG-2004 00:17:31	Bright	39.000	11	53Alp Aql	0.76500	8000.0	78	12853	No
GOM_TRA_1PNPDE20040815_001922_000000382029_00274_12853_0013.N1	15-AUG-2004 00:19:22	Bright	38.000	168	17Zet Aql	2.9860	11000.	76	12853	No
GOM_TRA_1PNPDE20040815_002452_000000402029_00274_12853_0014.N1	15-AUG-2004 00:24:52	Bright	39.500	92	53Eps Cyg	2.5000	4500.0	79	12853	No
GOM_TRA_1PNPDE20040815_003036_000000412029_00274_12853_0015.N1	15-AUG-2004 00:30:36	Bright	40.500	69	33Gam Dra	2.2310	3800.0	81	12853	No
GOM_TRA_1PNPDE20040815_003327_000000382029_00274_12853_0016.N1	15-AUG-2004 00:33:27	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	12853	No
GOM_TRA_1PNPDE20040815_003854_000000382029_00274_12853_0017.N1	15-AUG-2004 00:38:54	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	12853	No
GOM_TRA_1PNPDE20040815_004025_000000392029_00274_12853_0018.N1	15-AUG-2004 00:40:25	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	12853	No
GOM_TRA_1PNPDE20040815_004159_000000492029_00274_12853_0019.N1	15-AUG-2004 00:41:59	Bright	48.500	110	37Del Cas	2.6780	8900.0	97	12853	No
GOM_TRA_1PNPDE20040815_004752_000000562029_00274_12853_0020.N1	15-AUG-2004 00:47:52	Bright	55.500	160	23Gam Per	2.9300	4700.0	111	12853	No
GOM_TRA_1PNPDE20040815_004950_000000602029_00274_12853_0021.N1	15-AUG-2004 00:49:50	Bright	60.000	35	33Alp Per	1.7950	6250.0	120	12853	No
GOM_TRA_1PNPDE20040815_005323_000000732029_00274_12853_0022.N1	15-AUG-2004 00:53:23	Bright	72.500	79	26Bet Per	2.3100	13100.	145	12853	No
GOM_TRA_1PNPDE20040815_005554_000000392029_00274_12853_0023.N1	15-AUG-2004 00:55:54	Twilight	39.000	107	37The Aur	2.6490	11000.	78	12853	No
GOM_TRA_1PNPDE20040815_005859_000000512029_00274_12853_0024.N1	15-AUG-2004 00:58:59	Twilight	50.500	28	12Bet Tau	1.6500	15200.	101	12853	No
GOM_TRA_1PNPDE20040815_010147_000000462029_00274_12853_0025.N1	15-AUG-2004 01:01:47	Twilight	46.000	44	24Gam Gem	1.9280	11000.	92	12853	No
GOM_TRA_1PNPDE20040815_010445_000000742029_00274_12853_0026.N1	15-AUG-2004 01:04:45	Dark	73.500	13	87Alp Tau	0.86700	3800.0	147	12853	No
GOM_TRA_1PNPDE20040815_011053_000000522029_00274_12853_0000.N1	15-AUG-2004 01:10:53	Dark	51.500	1	9Alp CMa	-1.4400	11000.	103	12853	No
GOM_TRA_1PNPDE20040815_011231_000000422029_00274_12853_0001.N1	15-AUG-2004 01:12:31	Dark	41.500	179	24Omi2CMa	3.0320	24000.	83	12853	No
GOM_TRA_1PNPDE20040815_011358_000000442029_00274_12853_0002.N1	15-AUG-2004 01:13:58	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	12853	No
GOM_TRA_1PNPDE20040815_011600_000000452029_00274_12853_0003.N1	15-AUG-2004 01:16:00	Dark	45.000	117	Pi Pup	2.7060	3800.0	90	12853	No
GOM_TRA_1PNPDE20040815_012048_000000462029_00274_12853_0004.N1	15-AUG-2004 01:20:48	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	12853	No
GOM_TRA_1PNPDE20040815_012700_000000542029_00275_12854_0005.N1	15-AUG-2004 01:27:00	Dark	54.000	157	The1Eri	2.9060	9300.0	108	12854	No
GOM_TRA_1PNPDE20040815_013109_000000492029_00275_12854_0006.N1	15-AUG-2004 01:31:09	Dark	49.000	9	Alp Eri	0.45300	24000.	98	12854	No
GOM_TRA_1PNPDE20040815_013654_000000612029_00275_12854_0007.N1	15-AUG-2004 01:36:54	Twilight	60.500	84	Alp Phe	2.3970	4500.0	121	12854	No
GOM_TRA_1PNPDE20040815_014034_000000442029_00275_12854_0008.N1	15-AUG-2004 01:40:34	Bright	44.000	31	Alp Gru	1.7340	15200.	88	12854	No
GOM_TRA_1PNPDE20040815_014428_000000592029_00275_12854_0009.N1	15-AUG-2004 01:44:28	Bright	58.500	18	24Alp PsA	1.1660	9700.0	117	12854	No
GOM_TRA_1PNPDE20040815_015013_000000472029_00275_12854_0010.N1	15-AUG-2004 01:50:13	Bright	46.500	142	49Del Cap	2.8500	8900.0	93	12854	No
GOM_TRA_1PNPDE20040815_015343_000000452029_00275_12854_0011.N1	15-AUG-2004 01:53:43	Bright	45.000	154	22Bet Aqr	2.8990	5700.0	90	12854	No
GOM_TRA_1PNPDE20040815_015548_000000502029_00275_12854_0012.N1	15-AUG-2004 01:55:48	Bright	50.000	162	34Alp Aqr	2.9440	5350.0	100	12854	No
GOM_TRA_1PNPDE20040815_015807_000000392029_00275_12854_0013.N1	15-AUG-2004 01:58:07	Bright	39.000	11	53Alp Aql	0.76500	8000.0	78	12854	No
GOM_TRA_1PNPDE20040815_015959_000000372029_00275_12854_0014.N1	15-AUG-2004 01:59:59	Bright	36.500	168	17Zet Aql	2.9860	11000.	73	12854	No
GOM_TRA_1PNPDE20040815_020528_000000422029_00275_12854_0015.N1	15-AUG-2004 02:05:28	Bright	42.000	92	53Eps Cyg	2.5000	4500.0	84	12854	No
GOM_TRA_1PNPDE20040815_021112_000000402029_00275_12854_0016.N1	15-AUG-2004 02:11:12	Bright	40.000	69	33Gam Dra	2.2310	3800.0	80	12854	No
GOM_TRA_1PNPDE20040815_021403_000000382029_00275_12854_0017.N1	15-AUG-2004 02:14:03	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	12854	No
GOM_TRA_1PNPDE20040815_021930_000000362029_00275_12854_0018.N1	15-AUG-2004 02:19:30	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	12854	No
GOM_TRA_1PNPDE20040815_022234_000000512029_00275_12854_0000.N1	15-AUG-2004 02:22:34	Bright	51.000	110	37Del Cas	2.6780	8900.0	102	12854	Yes
GOM_TRA_1PNPDE20040815_022827_000000542029_00275_12854_0001.N1	15-AUG-2004 02:28:27	Bright	54.000	160	23Gam Per	2.9300	4700.0	108	12854	No
GOM_TRA_1PNPDE20040815_023025_000000582029_00275_12854_0002.N1	15-AUG-2004 02:30:25	Bright	57.500	35	33Alp Per	1.7950	6250.0	115	12854	No
GOM_TRA_1PNPDE20040815_023359_000000812029_00275_12854_0003.N1	15-AUG-2004 02:33:59	Bright	80.500	79	26Bet Per	2.3100	13100.	161	12854	No
GOM_TRA_1PNPDE20040815_023630_000000402029_00275_12854_0004.N1	15-AUG-2004 02:36:30	Twilight	40.000	107	37The Aur	2.6490	11000.	80	12854	No
GOM_TRA_1PNPDE20040815_023935_000000542029_00275_12854_0005.N1	15-AUG-2004 02:39:35	Twilight	54.000	28	12Bet Tau	1.6500	15200.	108	12854	No
GOM_TRA_1PNPDE20040815_024223_000000452029_00275_12854_0006.N1	15-AUG-2004 02:42:23	Twilight	44.500	44	24Gam Gem	1.9280	11000.	89	12854	No
GOM_TRA_1PNPDE20040815_024521_000000842029_00275_12854_0007.N1	15-AUG-2004 02:45:21	Dark	84.000	13	87Alp Tau	0.86700	3800.0	168	12854	No
GOM_TRA_1PNPDE20040815_024901_000000532029_00275_12854_0008.N1	15-AUG-2004 02:49:01	Dark	52.500	30	46Eps Ori	1.6940	30000.	105	12854	No
GOM_TRA_1PNPDE20040815_025129_000000482029_00275_12854_0009.N1	15-AUG-2004 02:51:29	Dark	48.000	1	9Alp CMa	-1.4400	11000.	96	12854	No
GOM_TRA_1PNPDE20040815_025308_000000402029_00275_12854_0010.N1	15-AUG-2004 02:53:08	Dark	40.000	179	24Omi2CMa	3.0320	24000.	80	12854	No

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



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

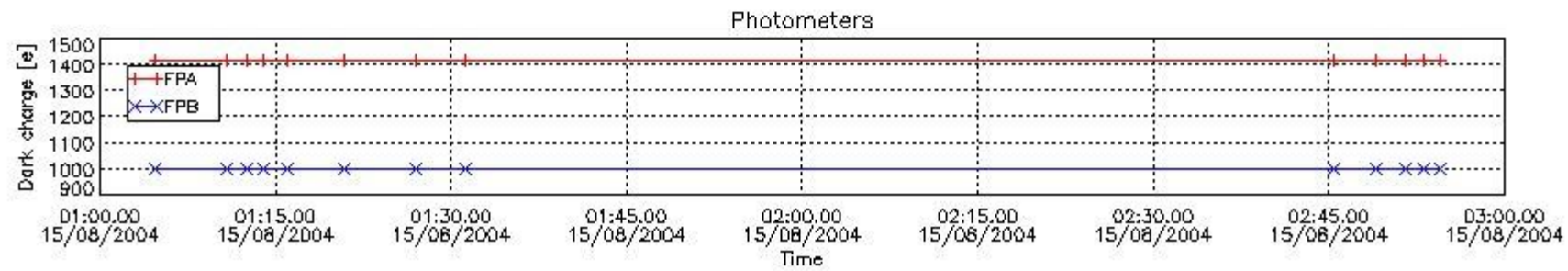
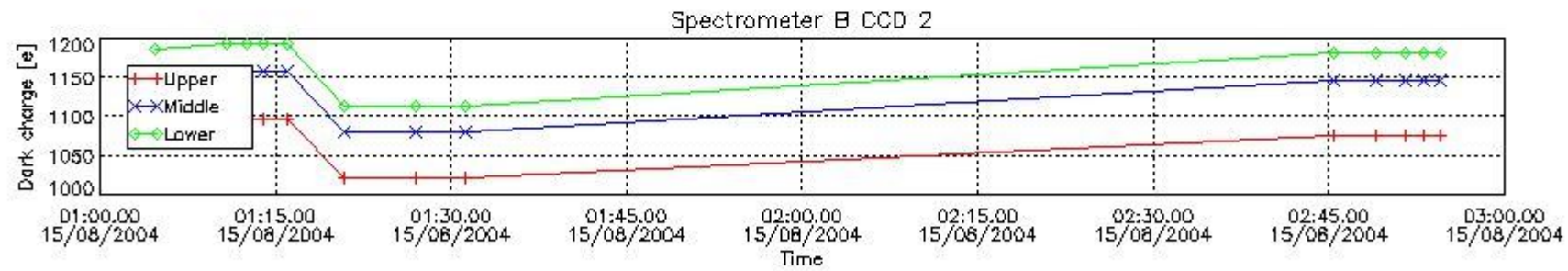
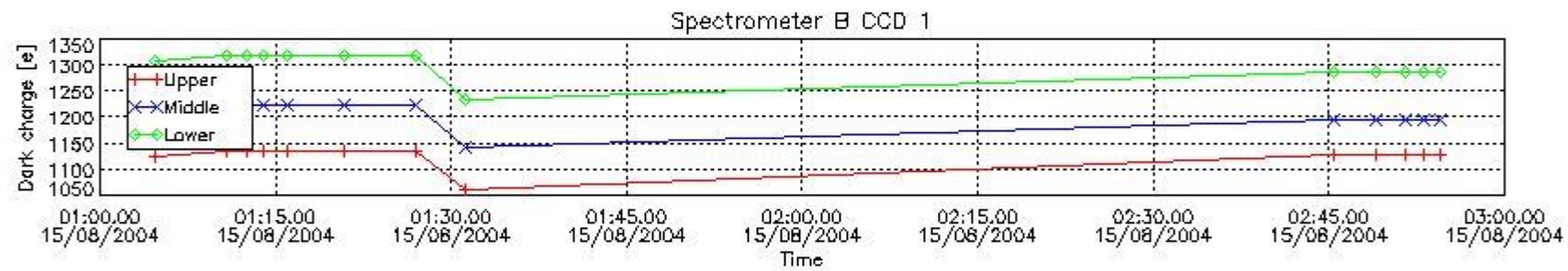
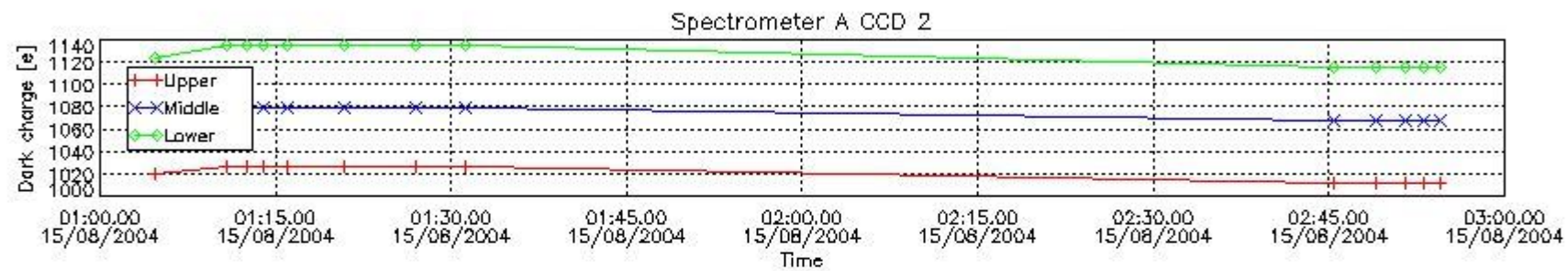
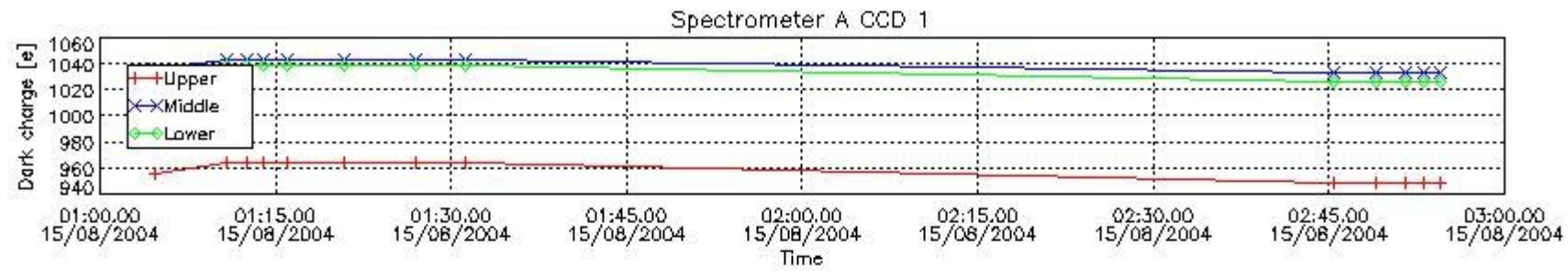
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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





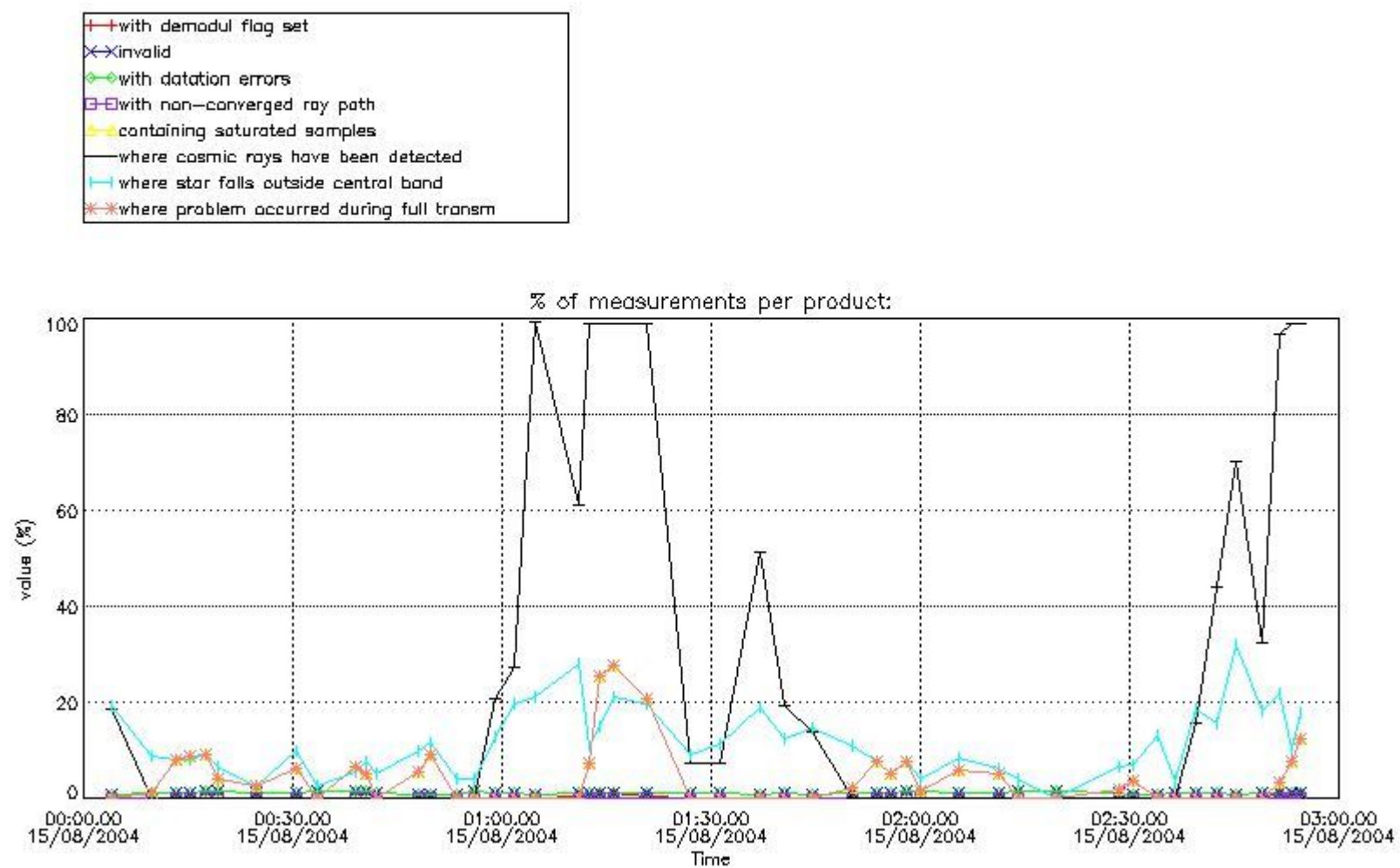
## 5. Demodulation flag and quality information monitoring

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:

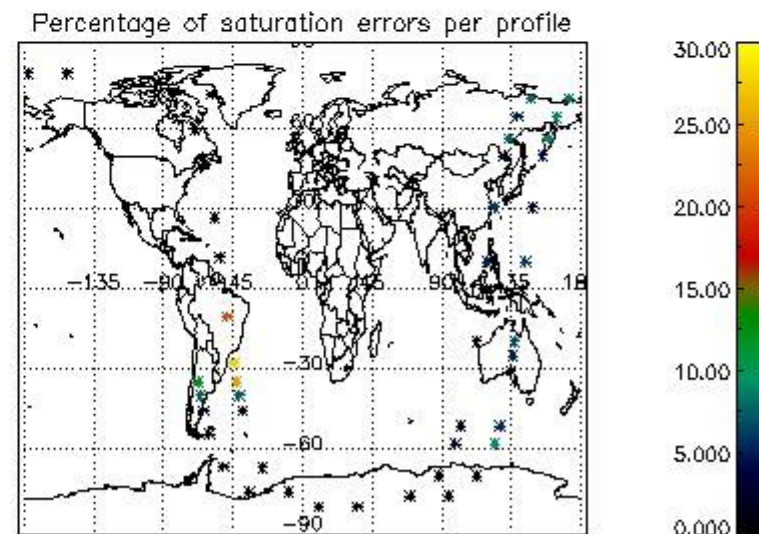
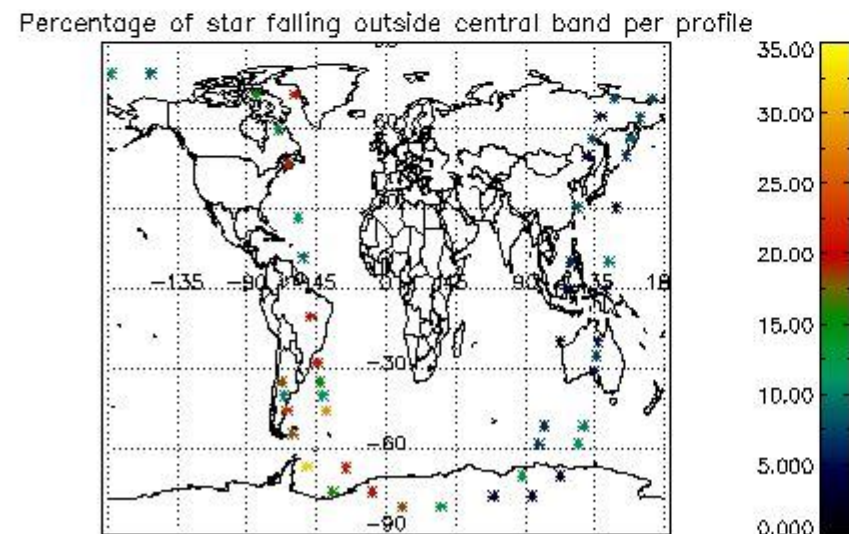
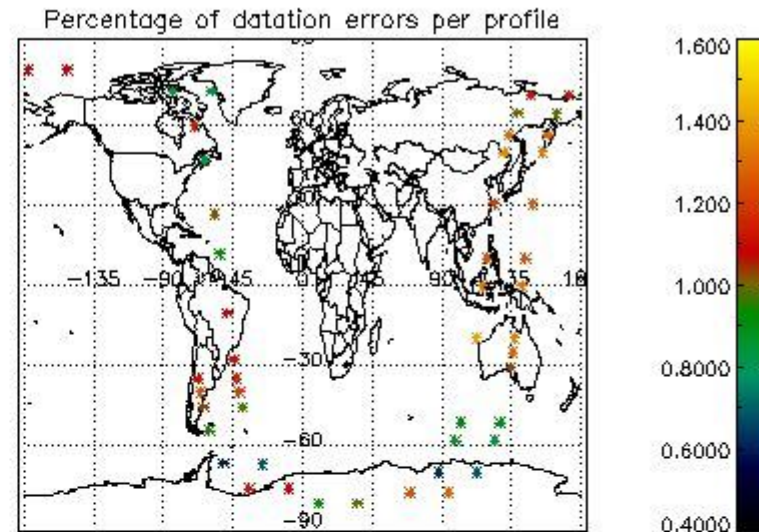
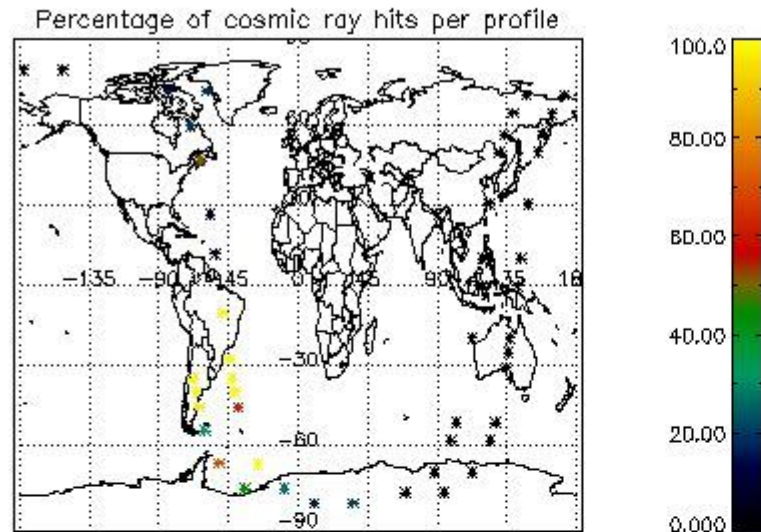
At least one measurement with demodulation flag set:	20.4082 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





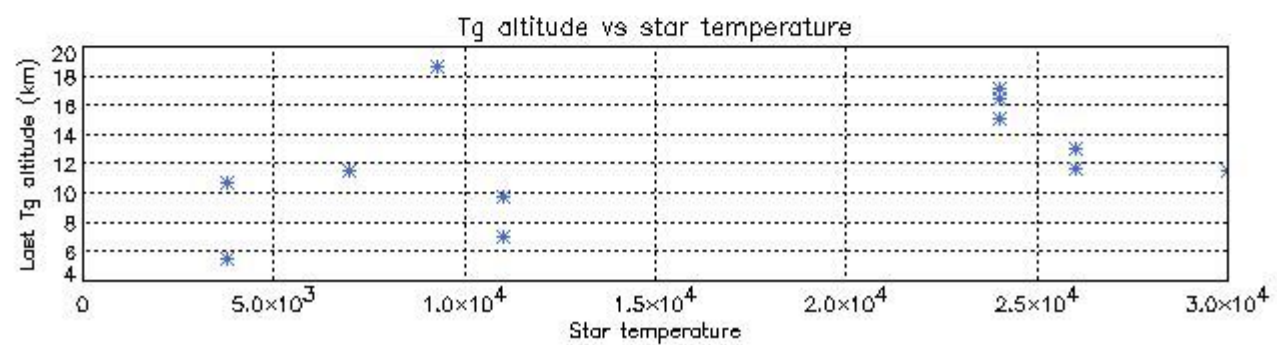
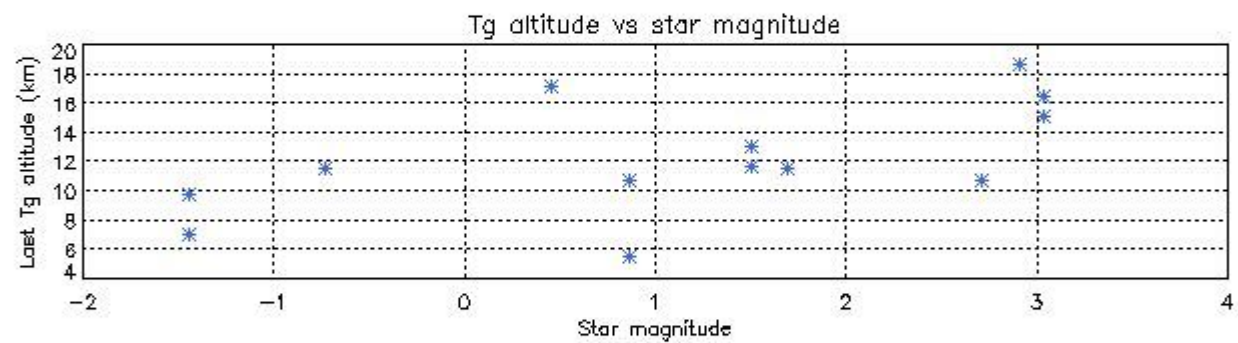
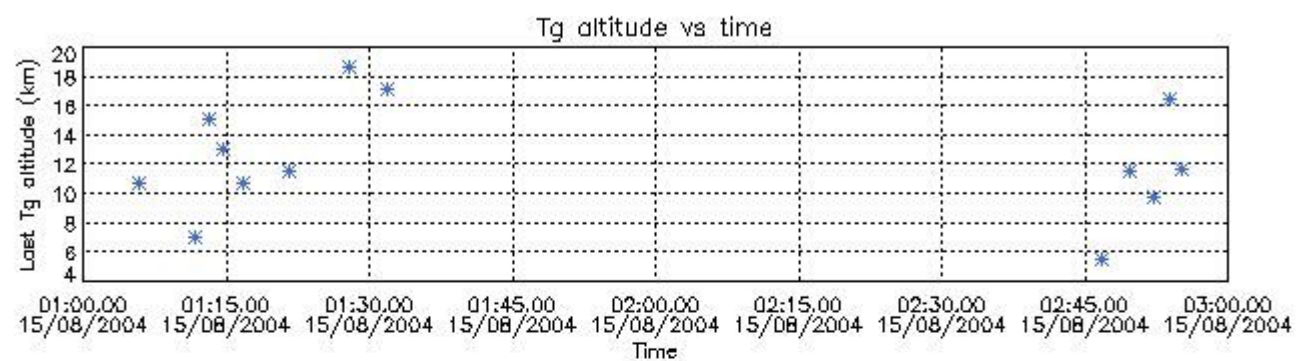
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.229	19.617	15.552
St. deviation:	3.8197	3.1750	5.4859
Maximum:	18.639	26.114	24.581
Minimum:	5.5314	11.994	11.338
Number of data:	13.000	29.000	7.0000

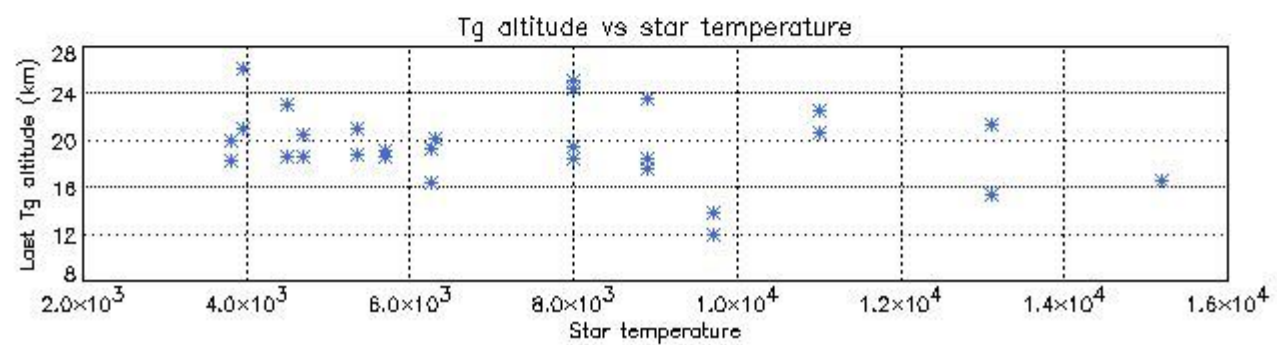
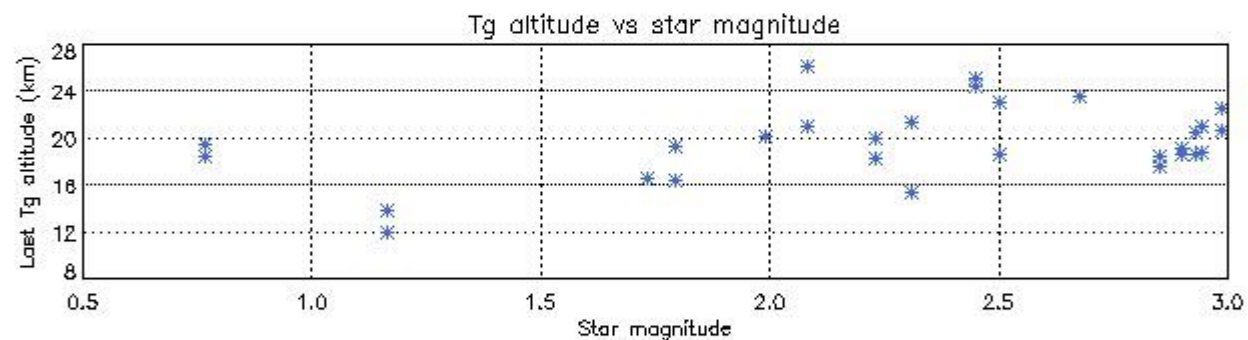
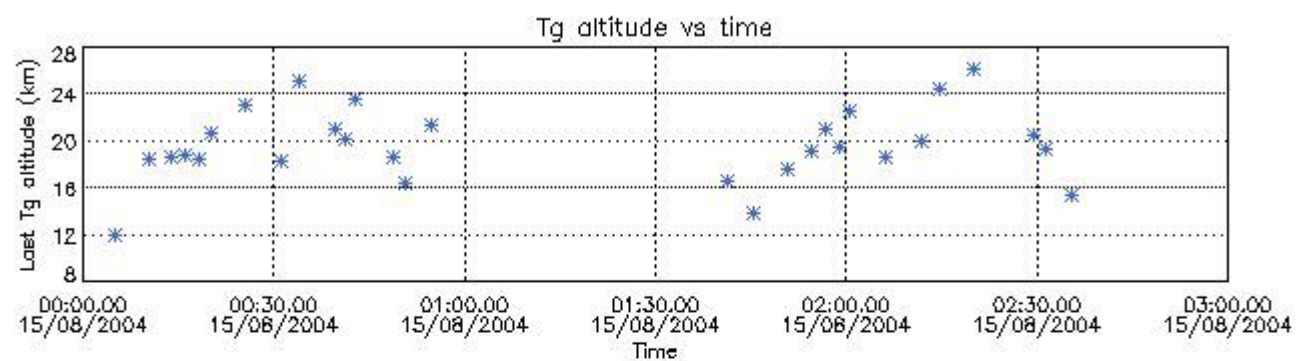
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

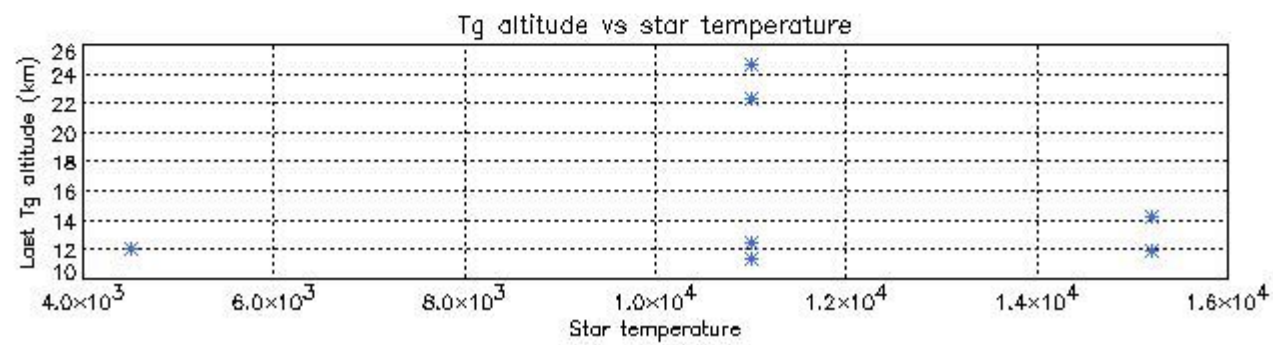
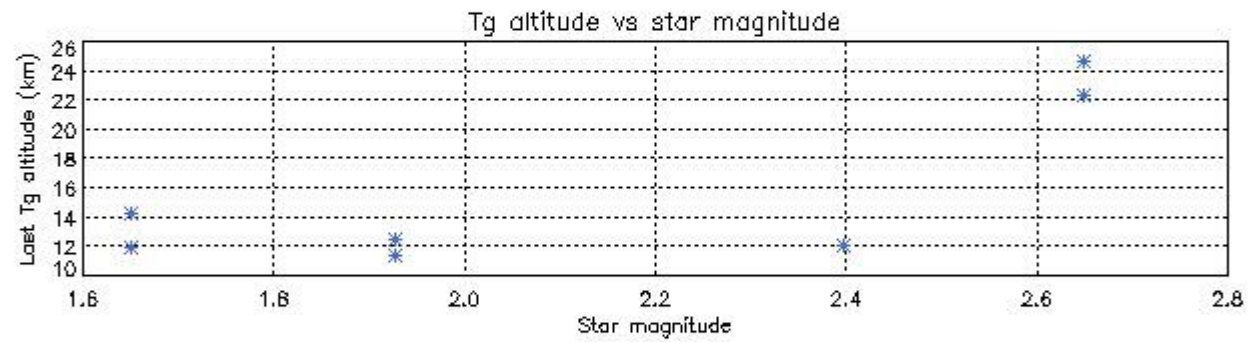
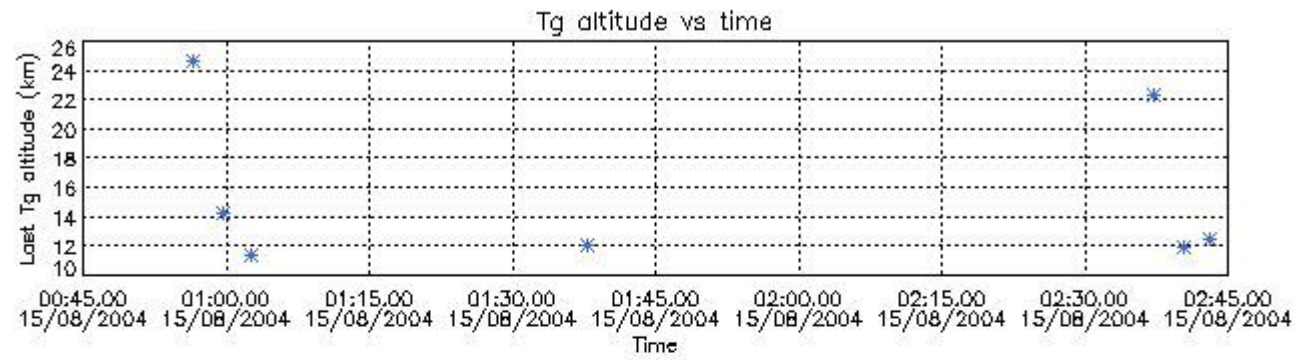
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



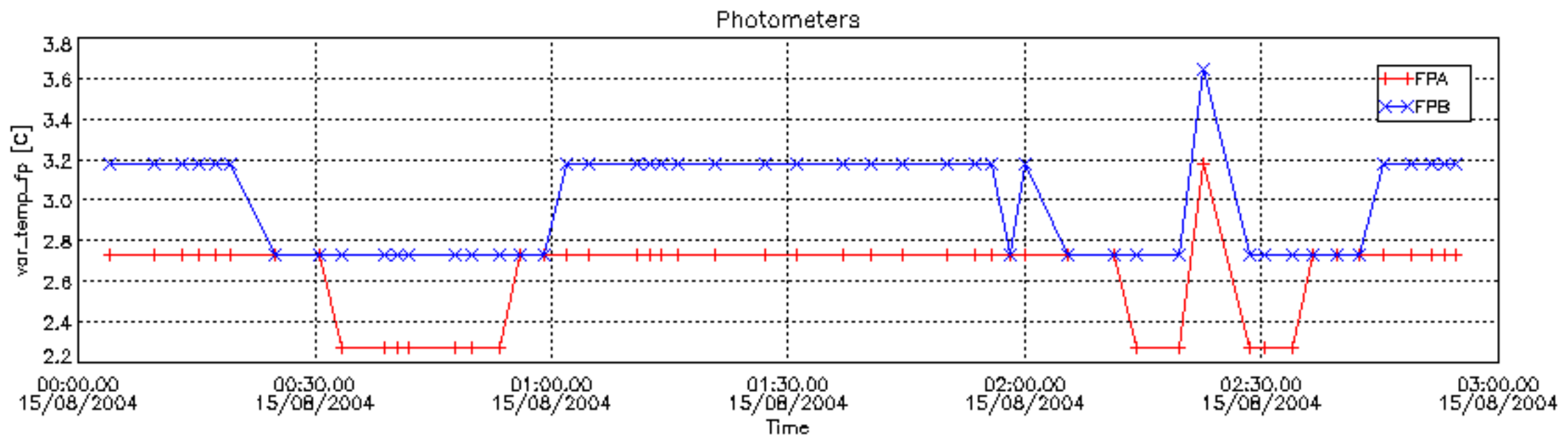
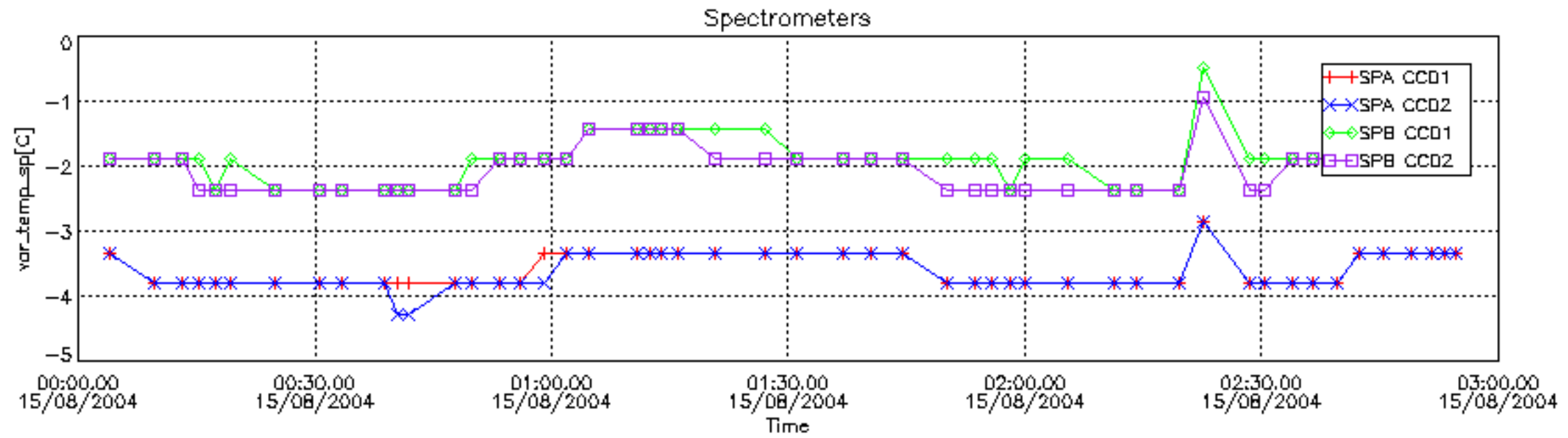
## Tangent altitude at which the star is lost

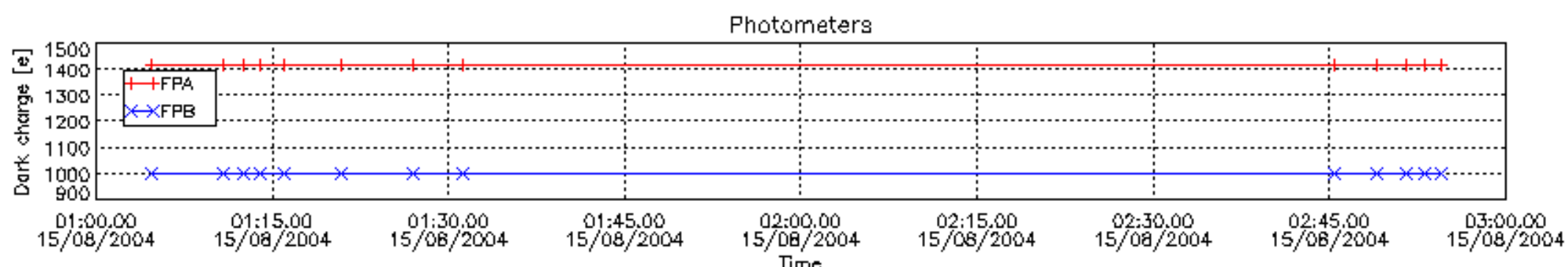
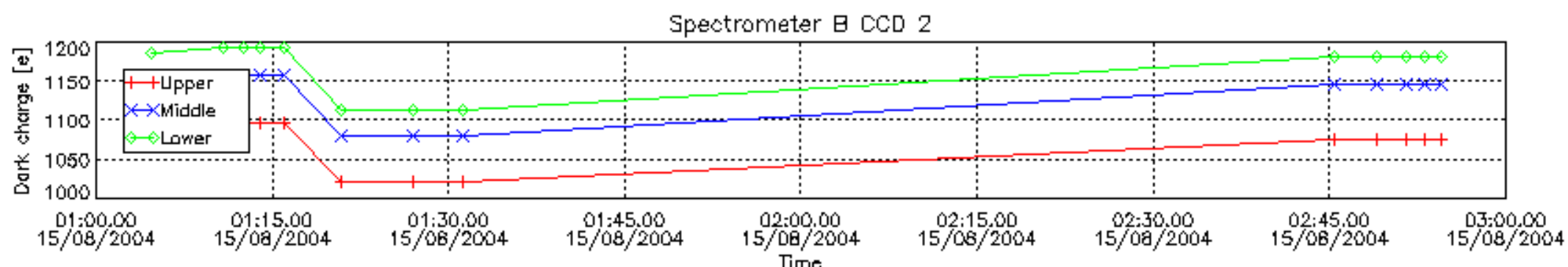
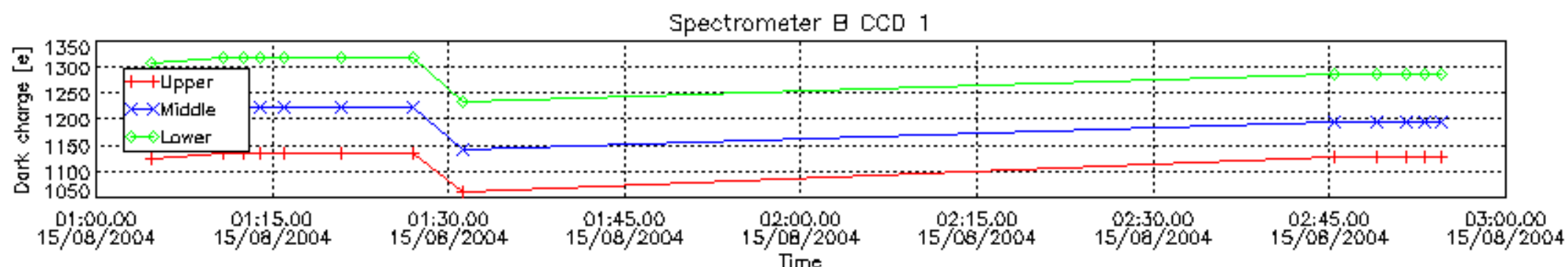
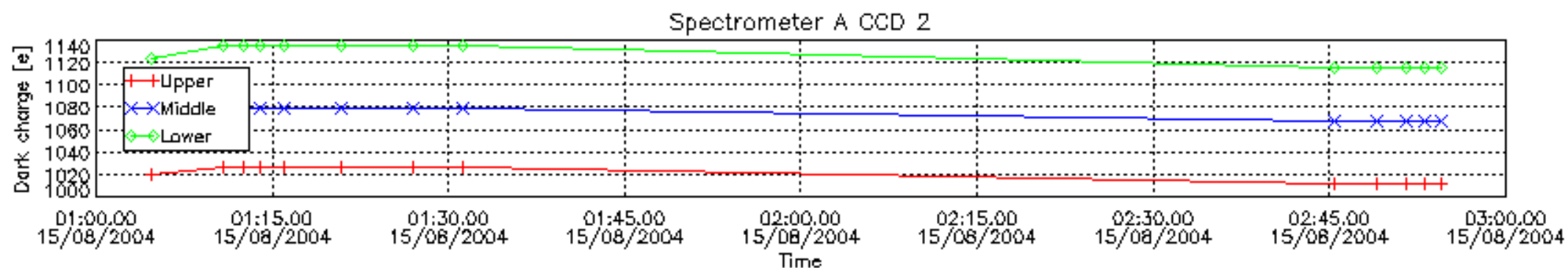
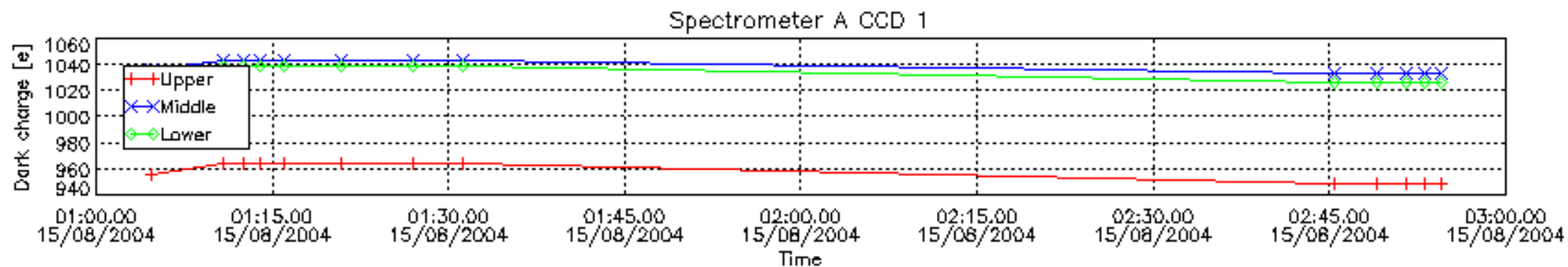


## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

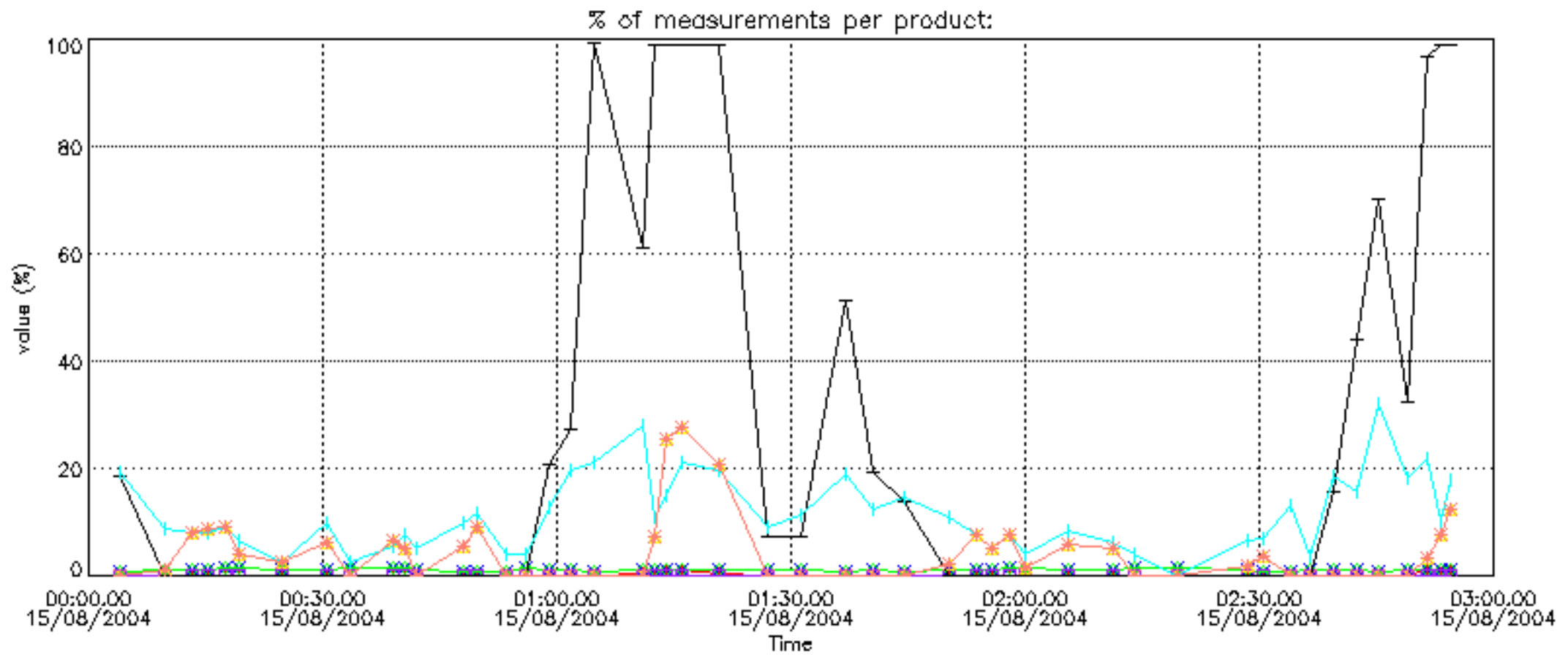
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1460.7	1446.6	1462.2	1448.1
St. deviation:	4.4686	6.1000	6.7005	7.3064
Maximum:	1499.0	1522.0	1521.0	1504.0
Minimum:	1445.0	1426.0	1439.0	1428.0
Number of data:	16300.	16300.	35900.	35900.

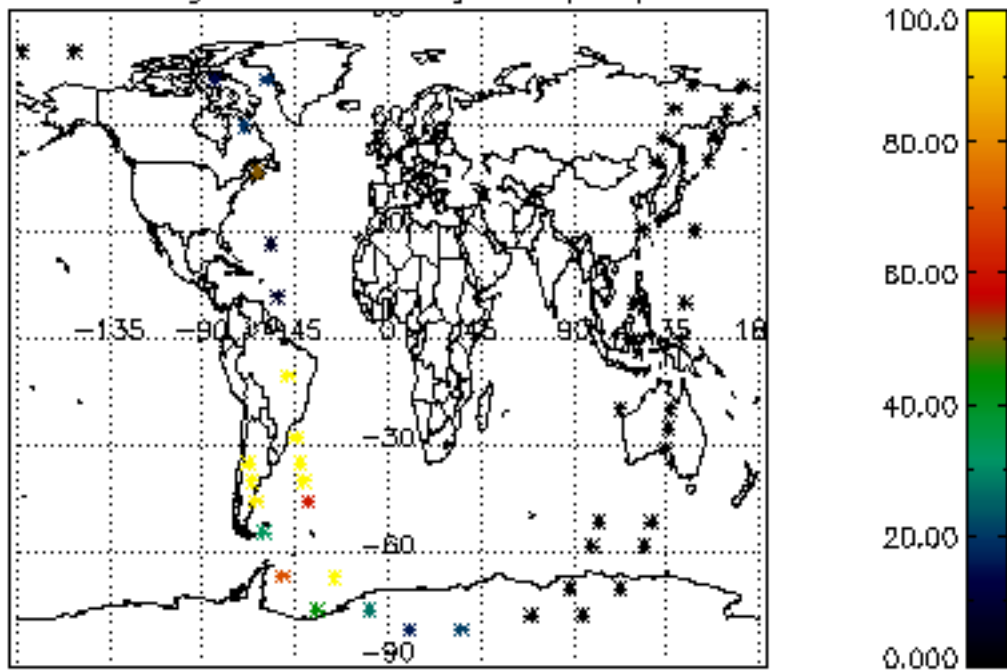




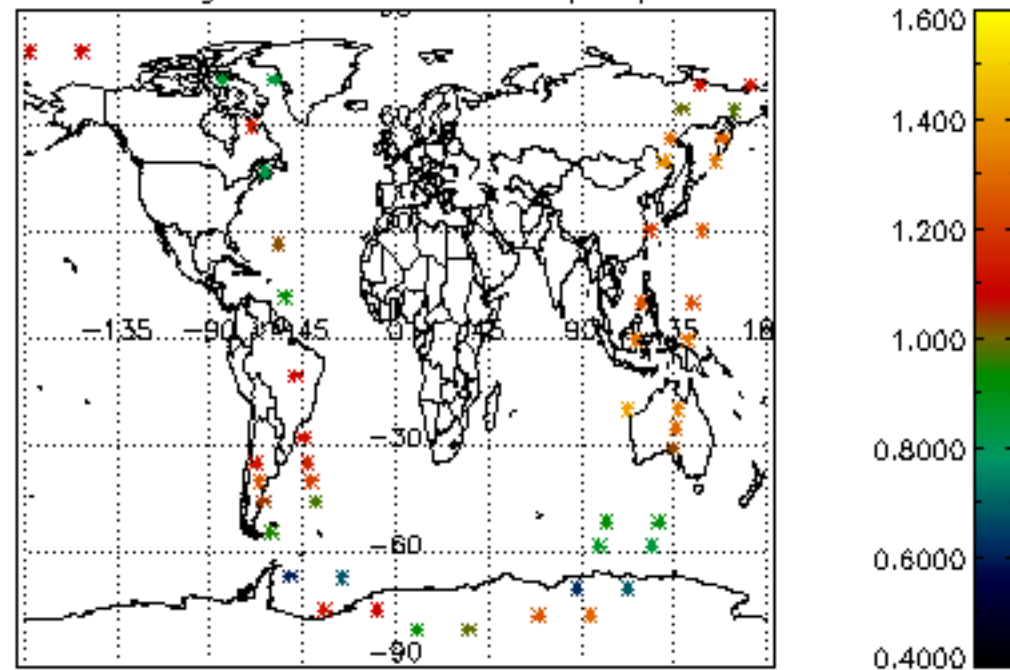




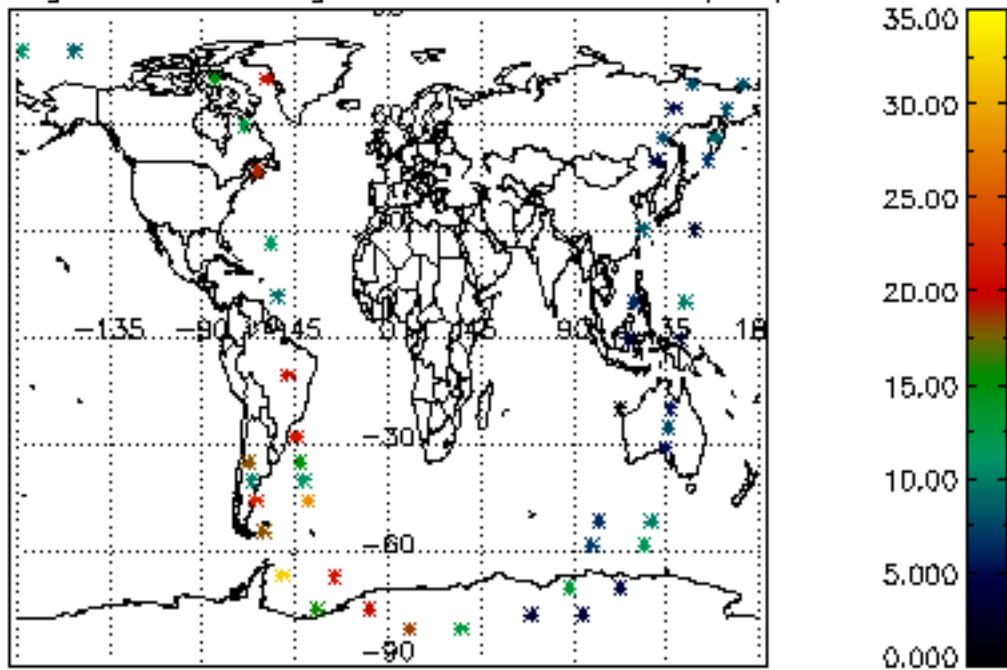
Percentage of cosmic ray hits per profile



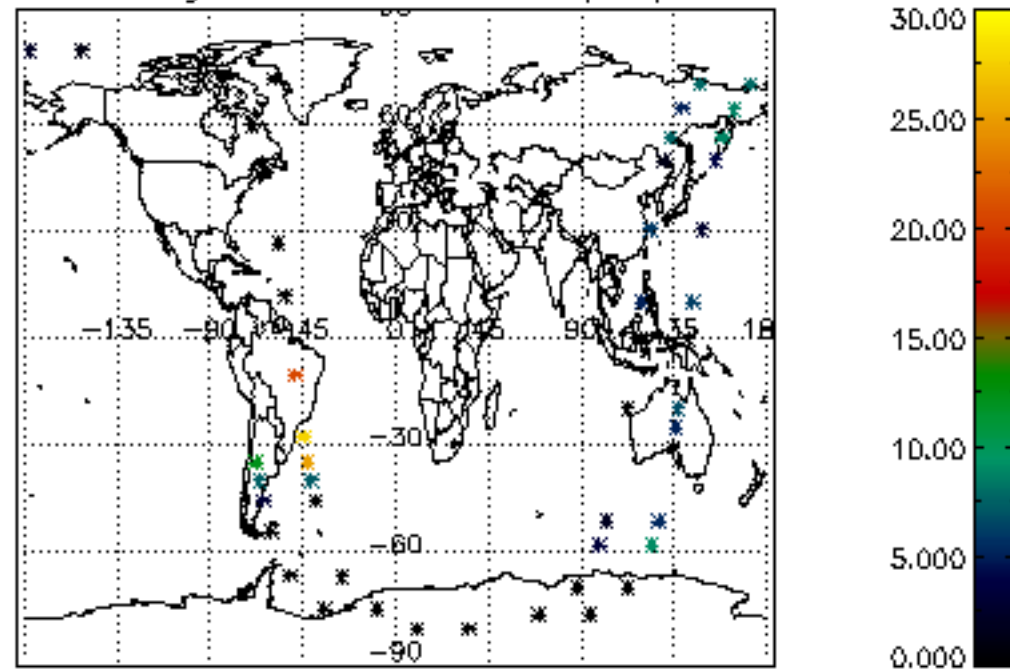
Percentage of datation errors per profile



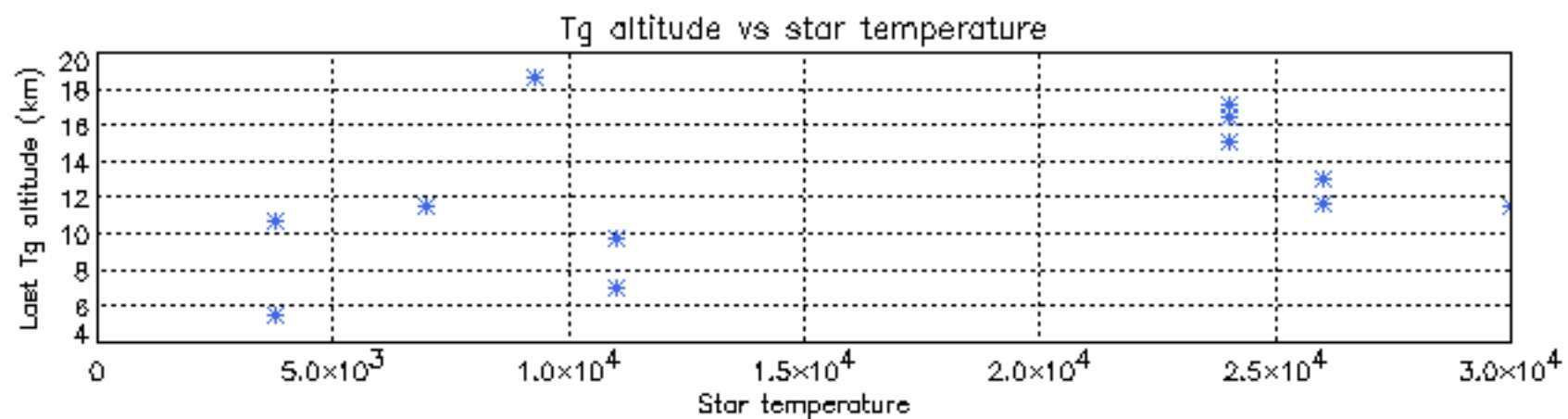
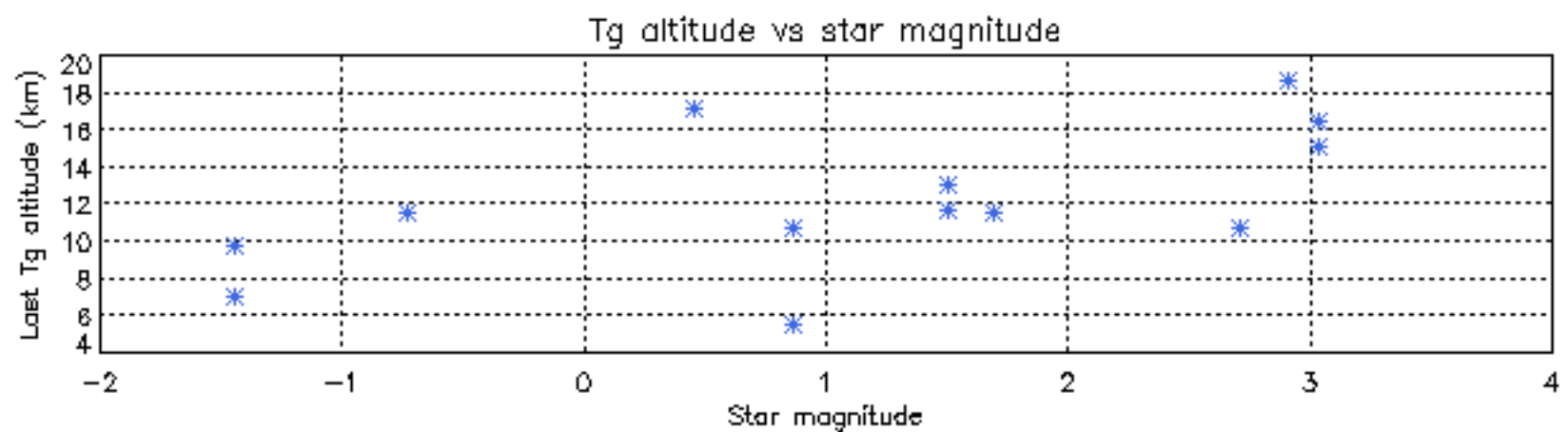
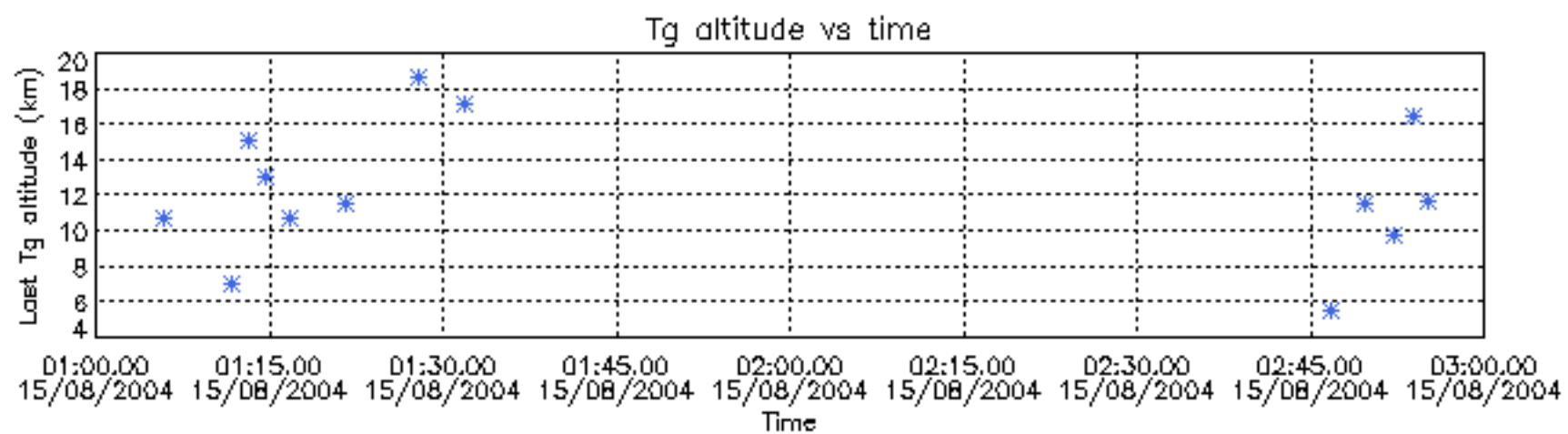
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

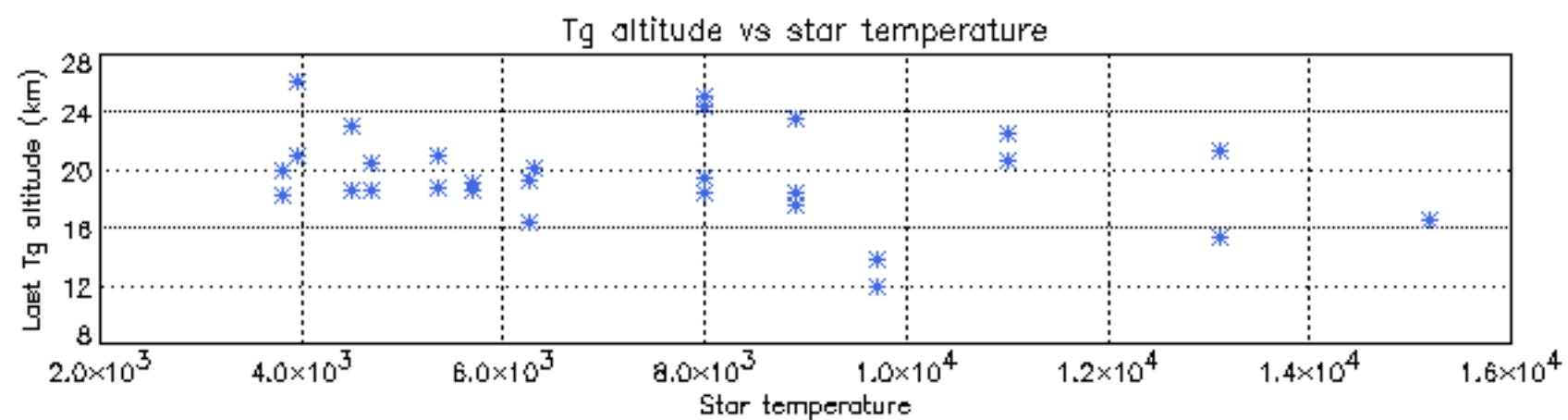
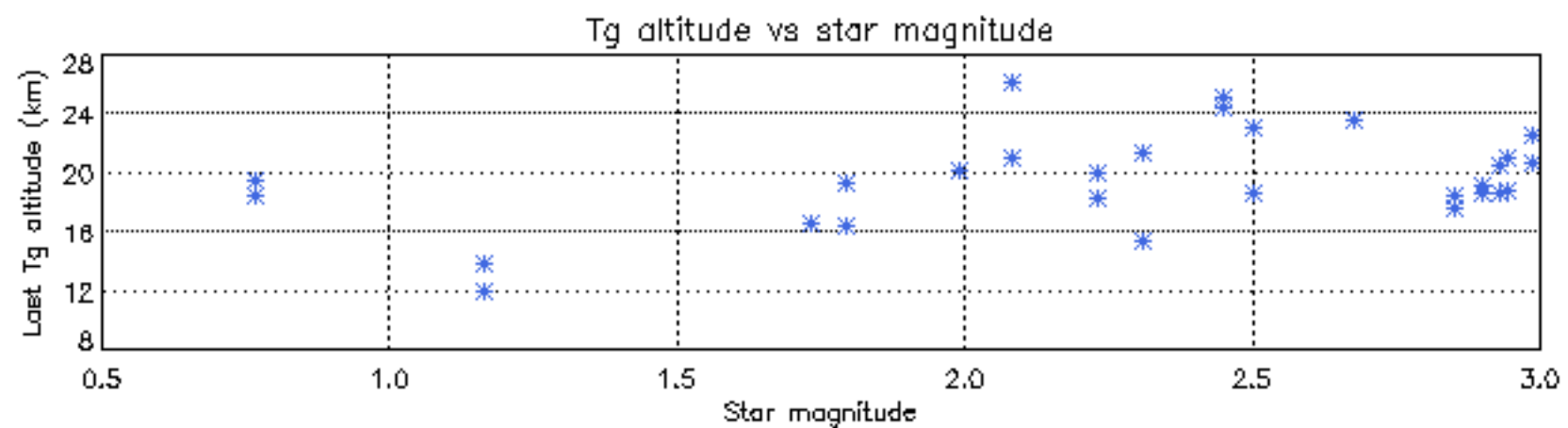
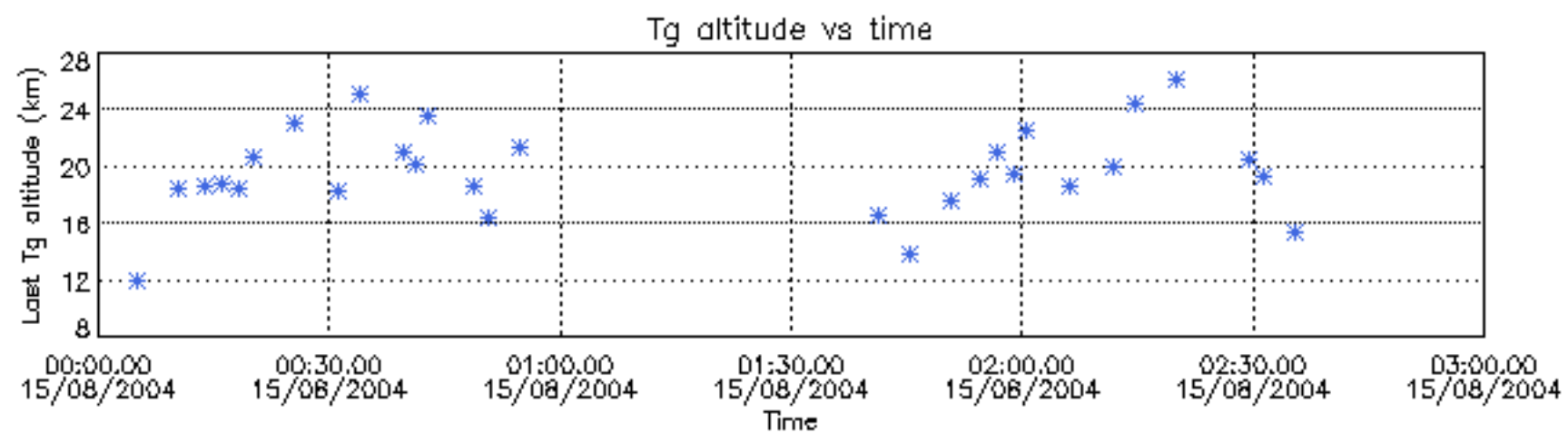


Tangent altitude at which the star is lost

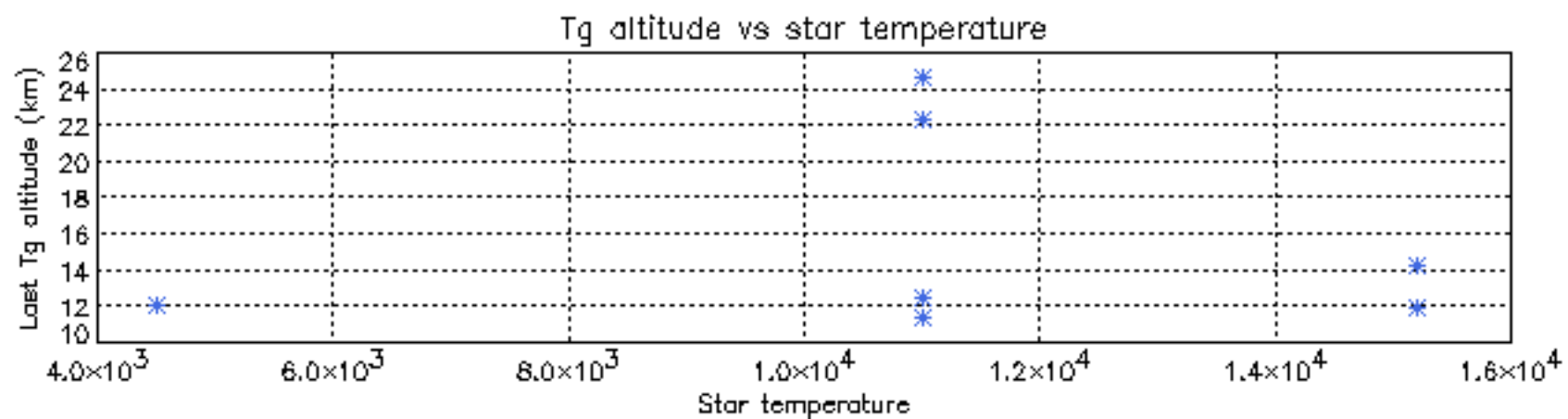
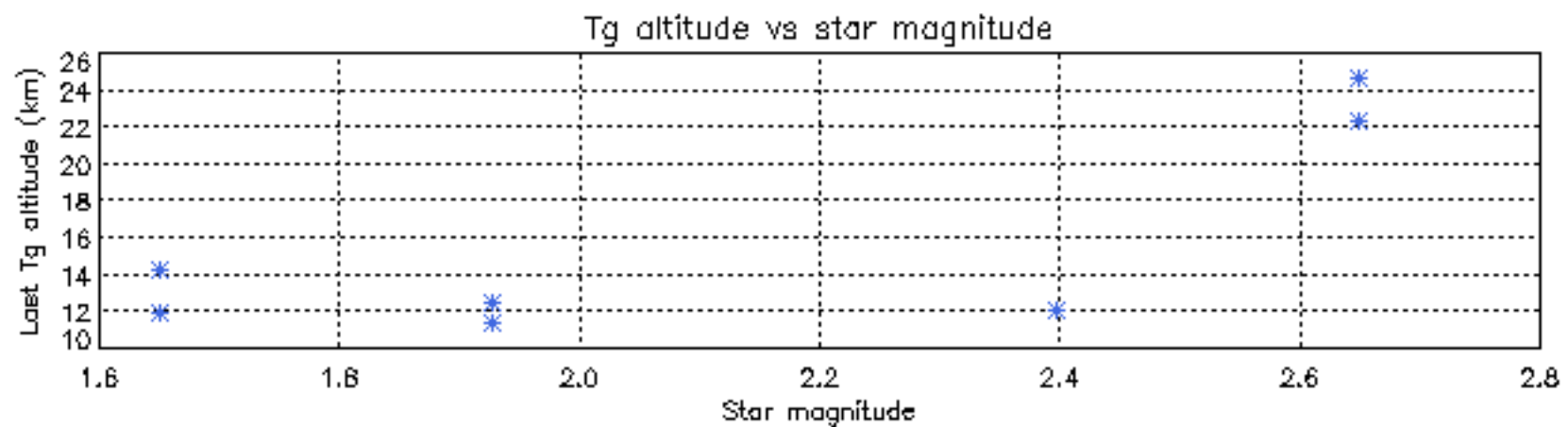
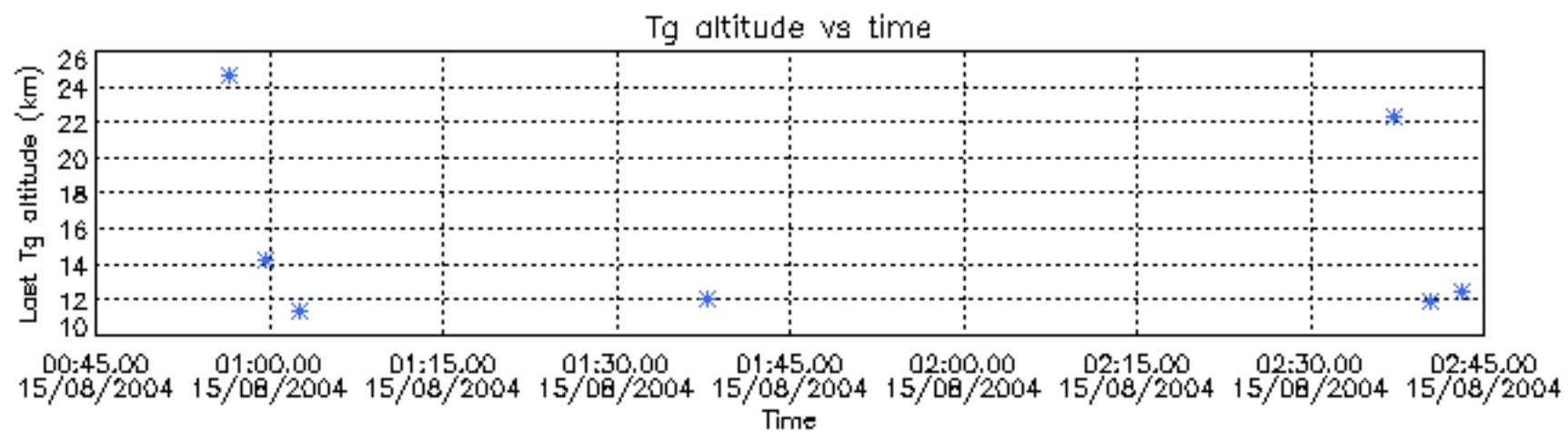




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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8;-2744.5; 02-AUG-2004 09:09:40; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;12672
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
12;-1895.3; 02-AUG-2004 09:23:49; Bright; 85.0; 73; 57Gam1And ; 2.26; 13100;occ; 170; 0;12672
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
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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
27; 727.0; 02-AUG-2004 10:07:32; Dark ; 44.5; 148; Alp Tuc ; 2.88; 4100;occ; 89; 0;12673
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
8;-2745.6; 02-AUG-2004 10:50:15; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;12673
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
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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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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!

1;-4465.9; 02-AUG-2004 13:42:46; Bright; 52.5; 142; 49Del Cap ; 2.85; 8900;occ; 105; 0;12675  
 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  
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 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  
 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  
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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  
 32;-144767876.1; 01-JAN-2000 01:39:16; Dark ; 68.0; 18; 24Alp PsA ; 1.17; 9700;occ; 136; 36;12675  
 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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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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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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13;-2045.6; 16-AUG-2004 08:41:02; Bright; 59.5; 35; 33Alp Per ; 1.79; 6250;occ; 119; 0;12872
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25; 217.5; 16-AUG-2004 09:18:45; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;12873
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27; 805.1; 16-AUG-2004 09:28:33; Dark ; 63.5; 84; Alp Phe ; 2.40; 4500;occ; 127; 0;12873
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 26; 461.3; 16-AUG-2004 12:44:01; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;12875  
 27; 806.7; 16-AUG-2004 12:49:46; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;12875  
 28; 1016.8; 16-AUG-2004 12:53:16; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;12875  
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 4; 1018.5; 16-AUG-2004 21:16:18; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;12880  
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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