

# GOMOS Daily Report 30-AUG-2004

## Level 0 and Level 1 products

### SUMMARY

#### [1. General Info](#)

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

[2.1 Level 0 products arrived in PCF during actual month \(see template here\)](#)

[2.2 Level 1 products arrived in PCF during reporting period](#)

#### [3. Plot of Spectrometers and Photometers temperatures](#)

#### [4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

#### [5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

#### [6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

#### [7. Statistics on SATU Noise Equivalent Angle](#)

## [Level 2 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	02SEP2004 05:09:39
Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-3D (30AUG2004 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-3D (31AUG2004 00:00:00)

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

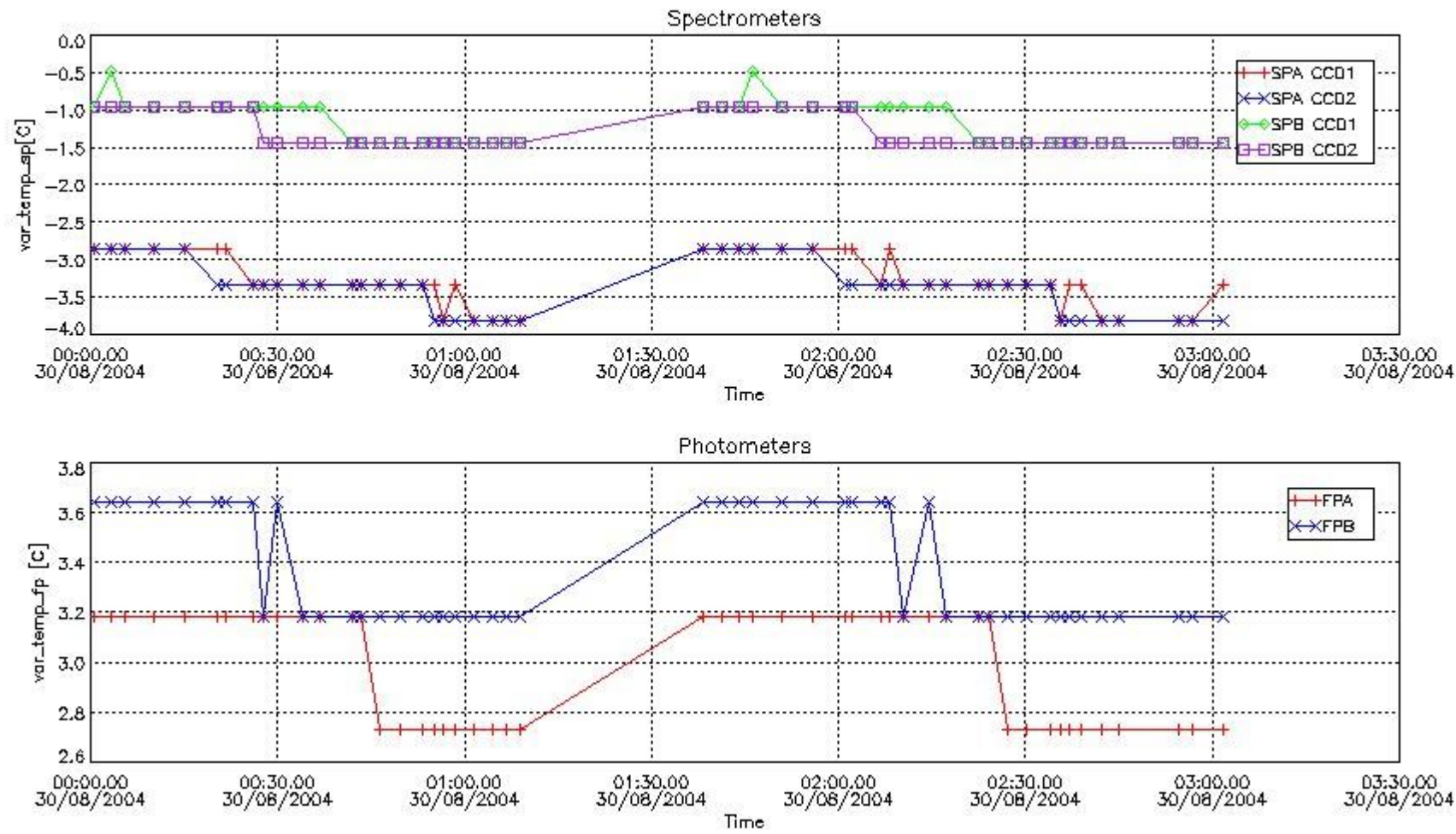
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20040830_000036_000000532029_00488_13067_0000.N1	30-AUG-2004 00:00:36	Dark	52.500	1	9Alp CMa	-1.4400	11000.	105	13067	No
GOM_TRA_1PNPDE20040830_000317_000000802029_00488_13067_0001.N1	30-AUG-2004 00:03:17	Dark	79.500	7	19Bet Ori	0.10000	14000.	159	13067	No
GOM_TRA_1PNPDE20040830_000529_000000612029_00488_13067_0002.N1	30-AUG-2004 00:05:29	Dark	61.000	139	9Bet Lep	2.8330	5600.0	122	13067	No
GOM_TRA_1PNPDE20040830_001008_000000482029_00488_13067_0003.N1	30-AUG-2004 00:10:08	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	13067	No
GOM_TRA_1PNPDE20040830_001512_000001412029_00489_13068_0004.N1	30-AUG-2004 00:15:12	Dark	141.00	165	34Gam Eri	2.9500	3200.0	282	13068	No
GOM_TRA_1PNPDE20040830_002025_000000442029_00489_13068_0005.N1	30-AUG-2004 00:20:25	Dark	43.500	143	Alp Hyi	2.8570	7200.0	87	13068	No
GOM_TRA_1PNPDE20040830_002139_000000592029_00489_13068_0006.N1	30-AUG-2004 00:21:39	Dark	59.000	9	Alp Eri	0.45300	24000.	118	13068	No
GOM_TRA_1PNPDE20040830_002612_000000432029_00489_13068_0007.N1	30-AUG-2004 00:26:12	Twilight	42.500	148	Alp Tuc	2.8780	4100.0	85	13068	No
GOM_TRA_1PNPDE20040830_002739_000000632029_00489_13068_0008.N1	30-AUG-2004 00:27:39	Twilight	62.500	84	Alp Phe	2.3970	4500.0	125	13068	No
GOM_TRA_1PNPDE20040830_002948_000000482029_00489_13068_0009.N1	30-AUG-2004 00:29:48	Twilight	48.000	31	Alp Gru	1.7340	15200.	96	13068	No
GOM_TRA_1PNPDE20040830_003354_000000572029_00489_13068_0010.N1	30-AUG-2004 00:33:54	Bright	57.000	18	24Alp PsA	1.1660	9700.0	114	13068	No
GOM_TRA_1PNPDE20040830_003640_000000892029_00489_13068_0011.N1	30-AUG-2004 00:36:40	Bright	88.500	52	16Bet Cet	2.0370	4500.0	177	13068	No
GOM_TRA_1PNPDE20040830_004155_000000432029_00489_13068_0012.N1	30-AUG-2004 00:41:55	Bright	43.000	154	22Bet Aqr	2.8990	5700.0	86	13068	No
GOM_TRA_1PNPDE20040830_004326_000000452029_00489_13068_0013.N1	30-AUG-2004 00:43:26	Bright	45.000	162	34Alp Aqr	2.9440	5350.0	90	13068	No
GOM_TRA_1PNPDE20040830_004627_000000432029_00489_13068_0014.N1	30-AUG-2004 00:46:27	Bright	42.500	61	8Eps Peg	2.1000	3900.0	85	13068	No
GOM_TRA_1PNPDE20040830_004936_000000502029_00489_13068_0015.N1	30-AUG-2004 00:49:36	Bright	50.000	90	54Alp Peg	2.4870	11000.	100	13068	No
GOM_TRA_1PNPDE20040830_005319_000000382029_00489_13068_0016.N1	30-AUG-2004 00:53:19	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	13068	No
GOM_TRA_1PNPDE20040830_005507_000000392029_00489_13068_0017.N1	30-AUG-2004 00:55:07	Bright	38.500	66	37Gam Cyg	2.2080	5900.0	77	13068	No
GOM_TRA_1PNPDE20040830_005629_000000372029_00489_13068_0018.N1	30-AUG-2004 00:56:29	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	13068	No
GOM_TRA_1PNPDE20040830_005824_000000682029_00489_13068_0019.N1	30-AUG-2004 00:58:24	Bright	68.000	58	21Alp And	2.0730	11000.	136	13068	No
GOM_TRA_1PNPDE20040830_010130_000000392029_00489_13068_0020.N1	30-AUG-2004 01:01:30	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	13068	No
GOM_TRA_1PNPDE20040830_010431_000000482029_00489_13068_0021.N1	30-AUG-2004 01:04:31	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	13068	No
GOM_TRA_1PNPDE20040830_010641_000000482029_00489_13068_0022.N1	30-AUG-2004 01:06:41	Bright	47.500	76	27Gam Cas	2.3000	30000.	95	13068	No
GOM_TRA_1PNPDE20040830_010846_000000372029_00489_13068_0023.N1	30-AUG-2004 01:08:46	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	13068	No
GOM_TRA_1PNPDE20040830_013809_000000712029_00489_13068_0000.N1	30-AUG-2004 01:38:09	Dark	71.000	27	24Gam Ori	1.6360	26000.	142	13068	Yes
GOM_TRA_1PNPDE20040830_014112_000000582029_00489_13068_0001.N1	30-AUG-2004 01:41:12	Dark	58.000	1	9Alp CMa	-1.4400	11000.	116	13068	No
GOM_TRA_1PNPDE20040830_014356_000000792029_00489_13068_0002.N1	30-AUG-2004 01:43:56	Dark	79.000	7	19Bet Ori	0.10000	14000.	158	13068	No
GOM_TRA_1PNPDE20040830_014606_000000582029_00489_13068_0003.N1	30-AUG-2004 01:46:06	Dark	57.500	139	9Bet Lep	2.8330	5600.0	115	13068	No
GOM_TRA_1PNPDE20040830_015046_000000542029_00489_13068_0004.N1	30-AUG-2004 01:50:46	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	13068	No
GOM_TRA_1PNPDE20040830_015551_000001442029_00490_13069_0005.N1	30-AUG-2004 01:55:51	Dark	143.50	165	34Gam Eri	2.9500	3200.0	287	13069	No
GOM_TRA_1PNPDE20040830_020102_000000432029_00490_13069_0006.N1	30-AUG-2004 02:01:02	Dark	42.500	143	Alp Hyi	2.8570	7200.0	85	13069	No
GOM_TRA_1PNPDE20040830_020216_000000592029_00490_13069_0007.N1	30-AUG-2004 02:02:16	Dark	59.000	9	Alp Eri	0.45300	24000.	118	13069	No
GOM_TRA_1PNPDE20040830_020647_000000442029_00490_13069_0008.N1	30-AUG-2004 02:06:47	Twilight	44.000	148	Alp Tuc	2.8780	4100.0	88	13069	No
GOM_TRA_1PNPDE20040830_020815_000000532029_00490_13069_0009.N1	30-AUG-2004 02:08:15	Twilight	52.500	84	Alp Phe	2.3970	4500.0	105	13069	No
GOM_TRA_1PNPDE20040830_021026_000000432029_00490_13069_0010.N1	30-AUG-2004 02:10:26	Twilight	42.500	31	Alp Gru	1.7340	15200.	85	13069	No
GOM_TRA_1PNPDE20040830_021431_000000532029_00490_13069_0011.N1	30-AUG-2004 02:14:31	Bright	53.000	18	24Alp PsA	1.1660	9700.0	106	13069	No
GOM_TRA_1PNPDE20040830_021715_000000922029_00490_13069_0012.N1	30-AUG-2004 02:17:15	Bright	91.500	52	16Bet Cet	2.0370	4500.0	183	13069	No
GOM_TRA_1PNPDE20040830_022231_000000432029_00490_13069_0013.N1	30-AUG-2004 02:22:31	Bright	43.000	154	22Bet Aqr	2.8990	5700.0	86	13069	No
GOM_TRA_1PNPDE20040830_022402_000000452029_00490_13069_0014.N1	30-AUG-2004 02:24:02	Bright	45.000	162	34Alp Aqr	2.9440	5350.0	90	13069	No
GOM_TRA_1PNPDE20040830_022702_000000422029_00490_13069_0015.N1	30-AUG-2004 02:27:02	Bright	42.000	61	8Eps Peg	2.1000	3900.0	84	13069	No
GOM_TRA_1PNPDE20040830_023011_000000512029_00490_13069_0016.N1	30-AUG-2004 02:30:11	Bright	51.000	90	54Alp Peg	2.4870	11000.	102	13069	No
GOM_TRA_1PNPDE20040830_023355_000000372029_00490_13069_0017.N1	30-AUG-2004 02:33:55	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	13069	No
GOM_TRA_1PNPDE20040830_023545_000000392029_00490_13069_0018.N1	30-AUG-2004 02:35:45	Bright	38.500	66	37Gam Cyg	2.2080	5900.0	77	13069	No
GOM_TRA_1PNPDE20040830_023706_000000392029_00490_13069_0019.N1	30-AUG-2004 02:37:06	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	13069	No
GOM_TRA_1PNPDE20040830_023858_000000632029_00490_13069_0020.N1	30-AUG-2004 02:38:58	Bright	63.000	58	21Alp And	2.0730	11000.	126	13069	No
GOM_TRA_1PNPDE20040830_024205_000000392029_00490_13069_0021.N1	30-AUG-2004 02:42:05	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	13069	No
GOM_TRA_1PNPDE20040830_024504_000000482029_00490_13069_0022.N1	30-AUG-2004 02:45:04	Bright	48.000	74	11Bet Cas	2.2680	6600.0	96	13069	No
GOM_TRA_1PNPDE20040830_025435_000000572029_00490_13069_0000.N1	30-AUG-2004 02:54:35	Bright	57.000	160	23Gam Per	2.9300	4700.0	114	13069	No
GOM_TRA_1PNPDE20040830_025646_000000642029_00490_13069_0001.N1	30-AUG-2004 02:56:46	Bright	63.500	35	33Alp Per	1.7950	6250.0	127	13069	No

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



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

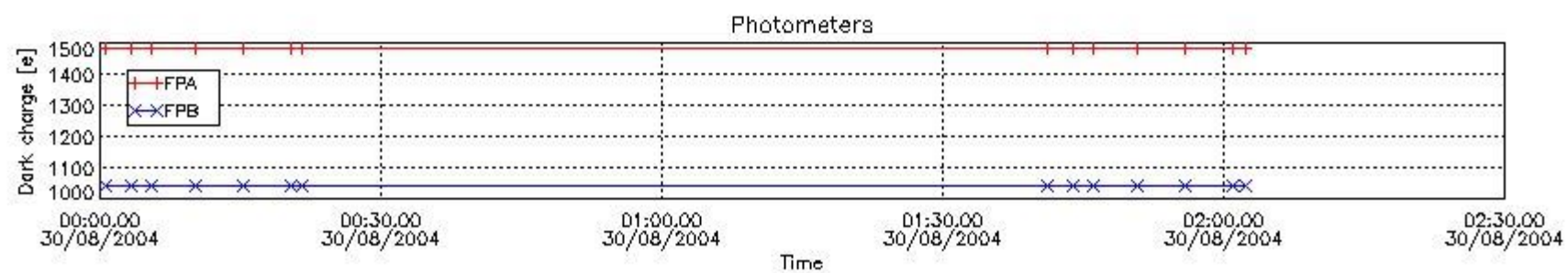
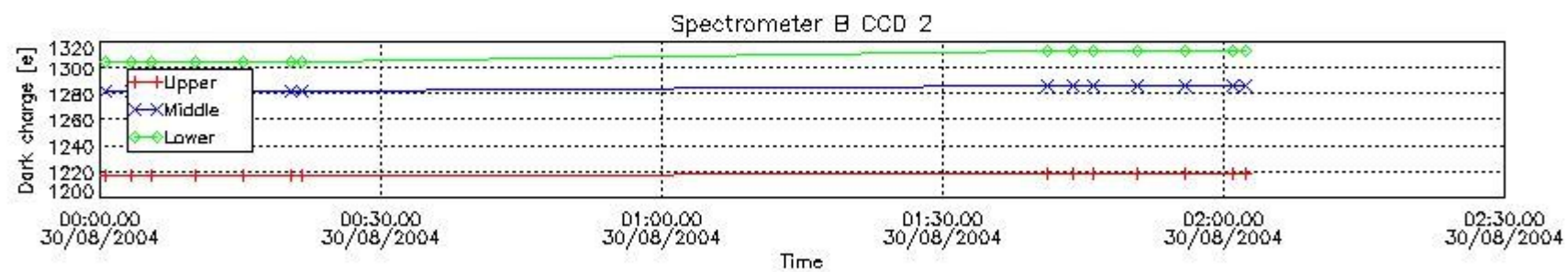
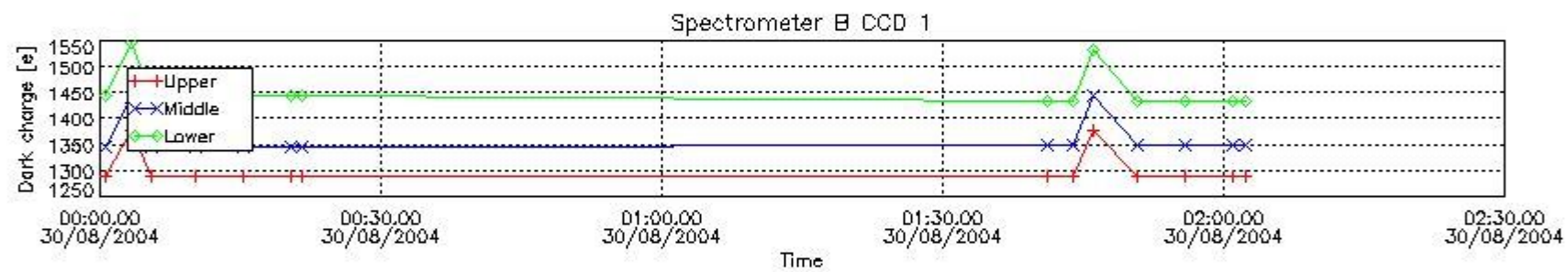
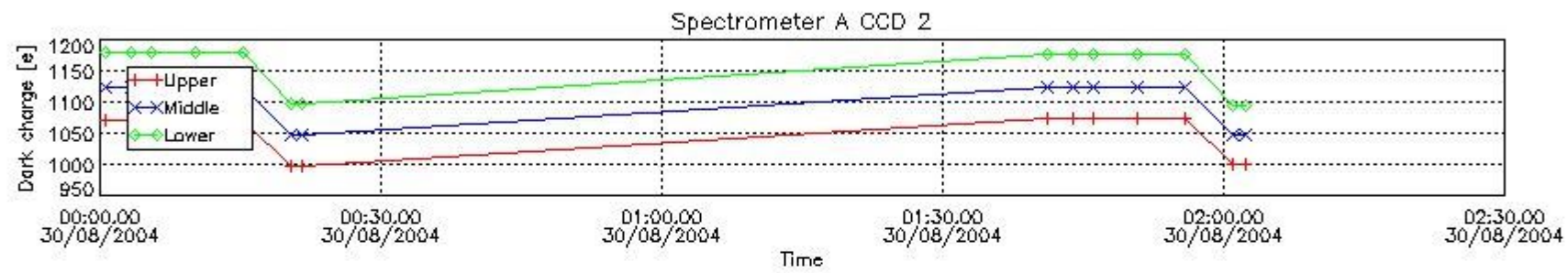
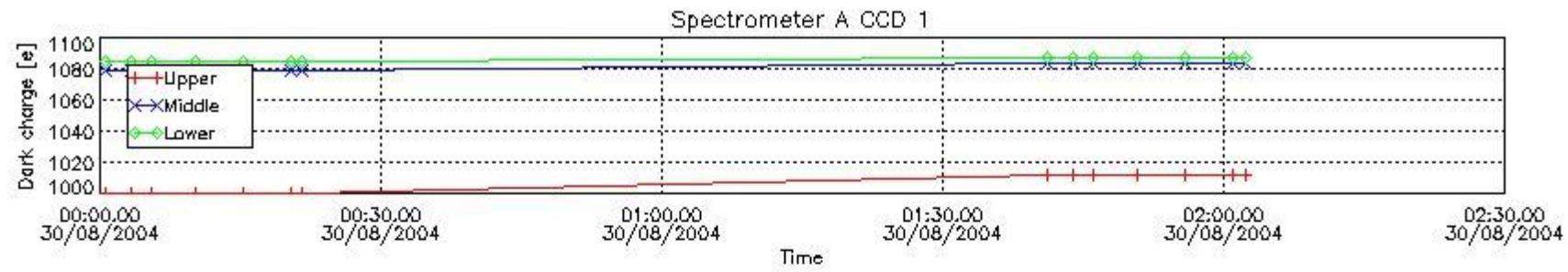
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





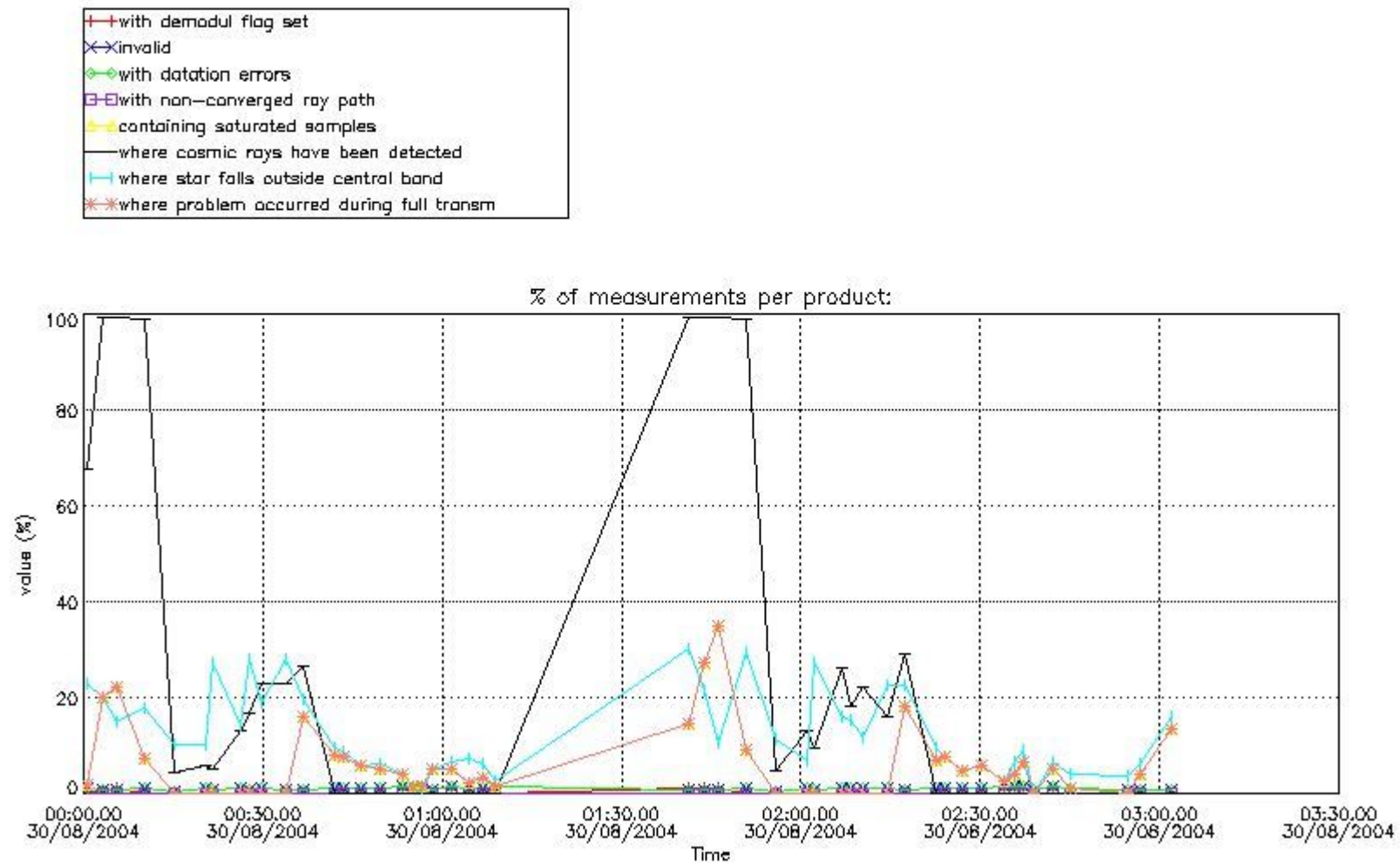
## 5. Demodulation flag and quality information monitoring

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.

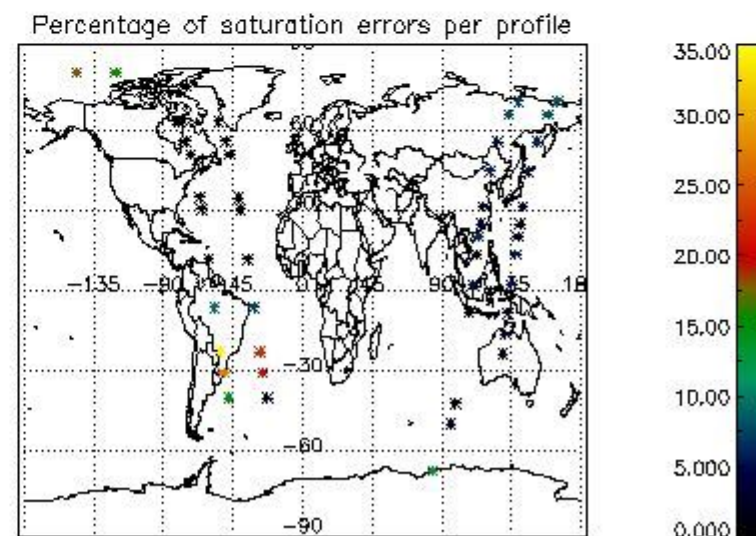
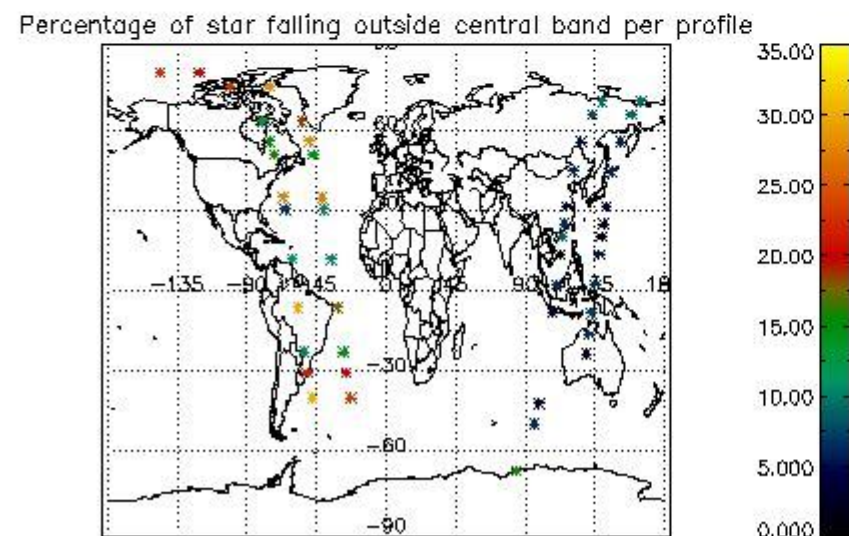
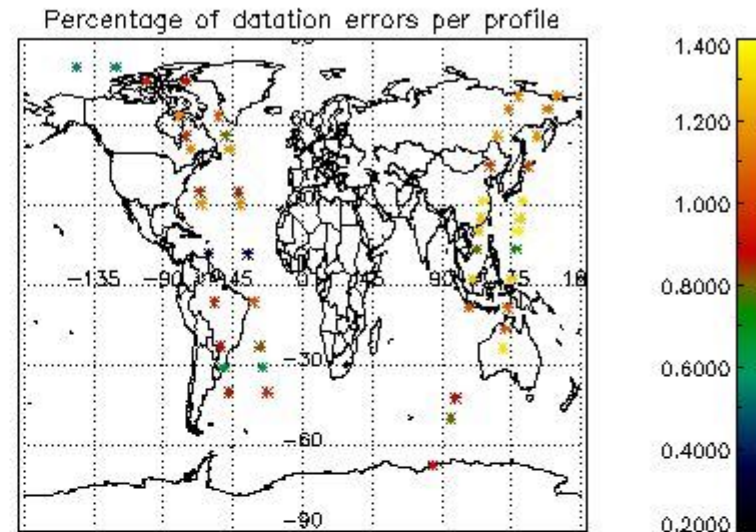
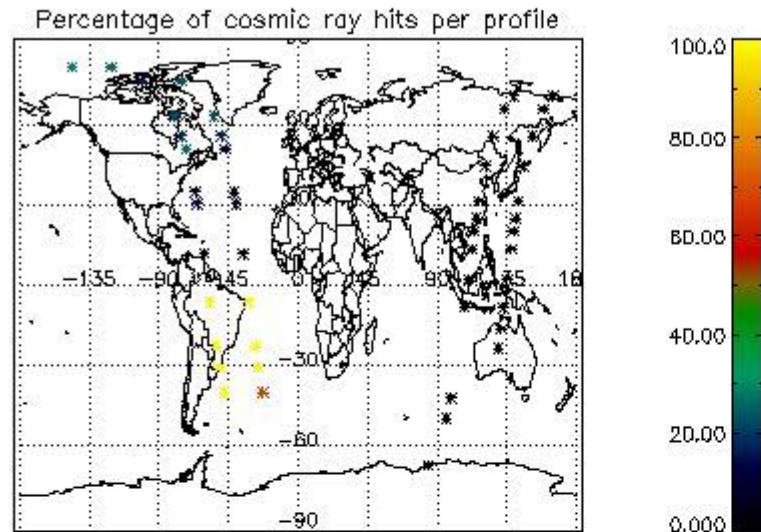
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.3265 %
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)

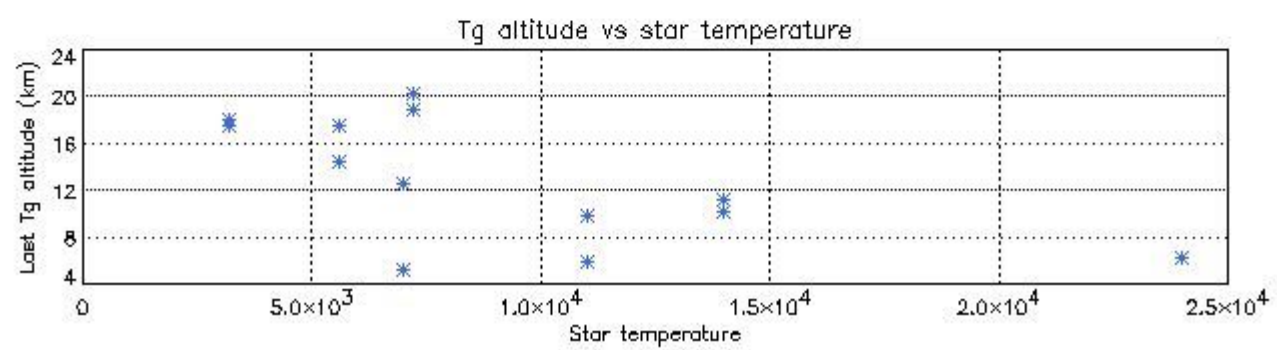
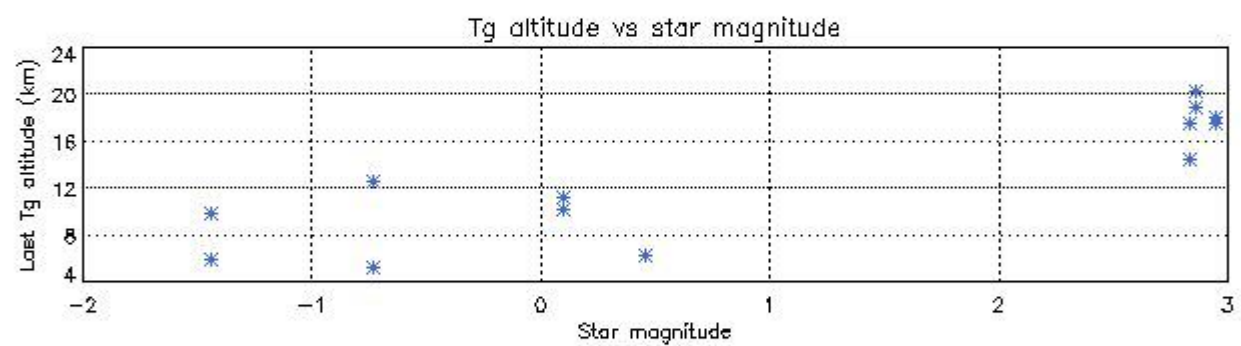
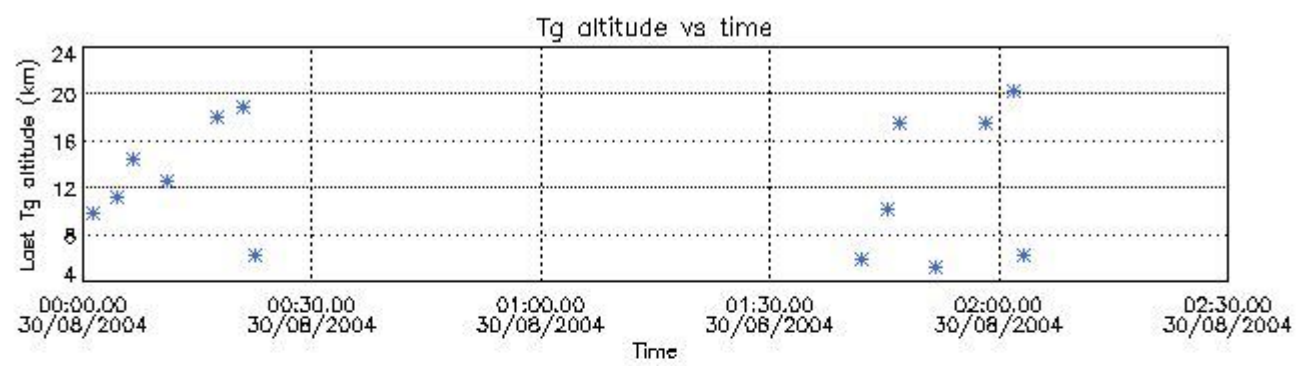
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.415	19.449	13.273
St. deviation:	5.3923	4.7112	3.6787
Maximum:	20.266	28.028	16.739
Minimum:	5.2165	6.8998	6.5101
Number of data:	14.000	29.000	6.0000

### 6.2 Plot for DARK limb products

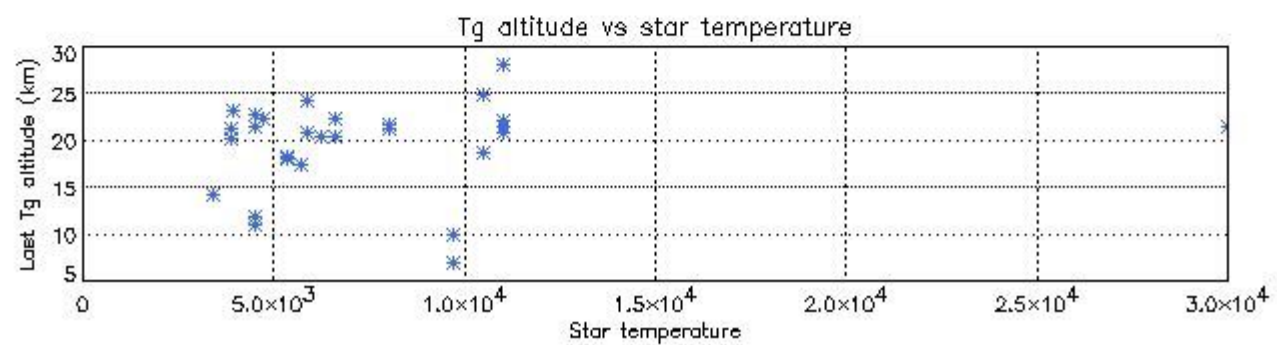
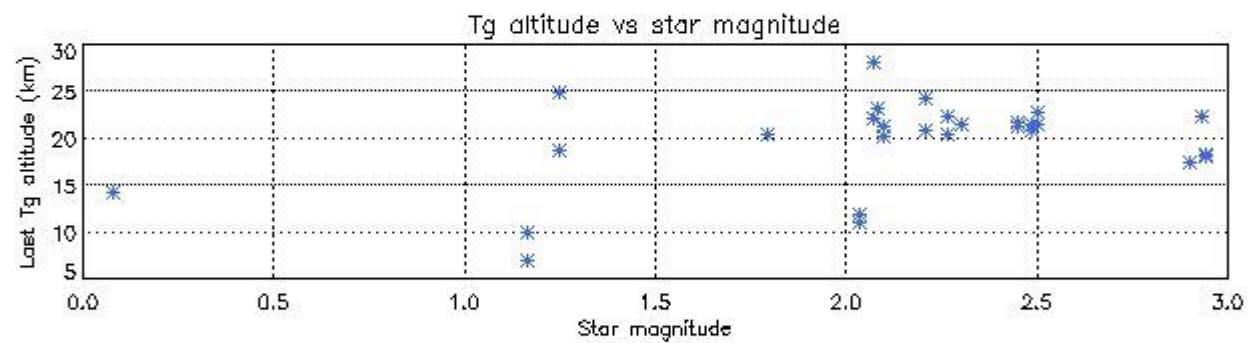
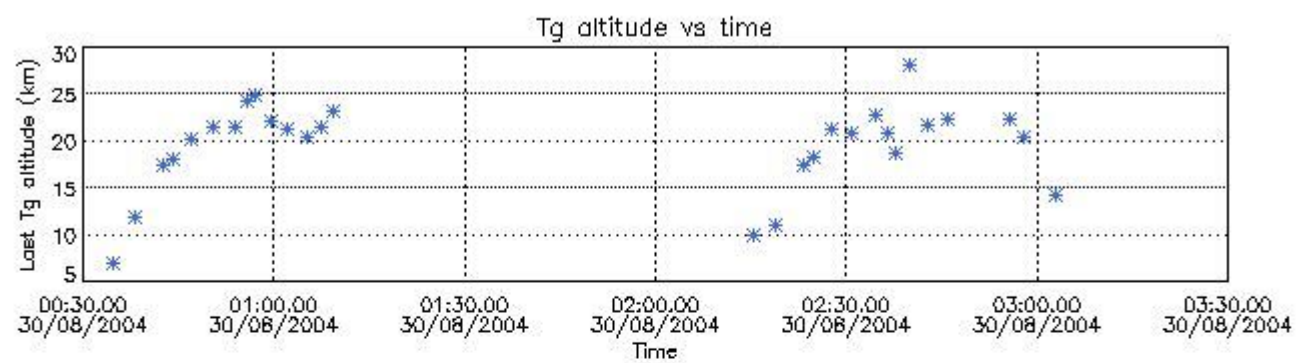


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

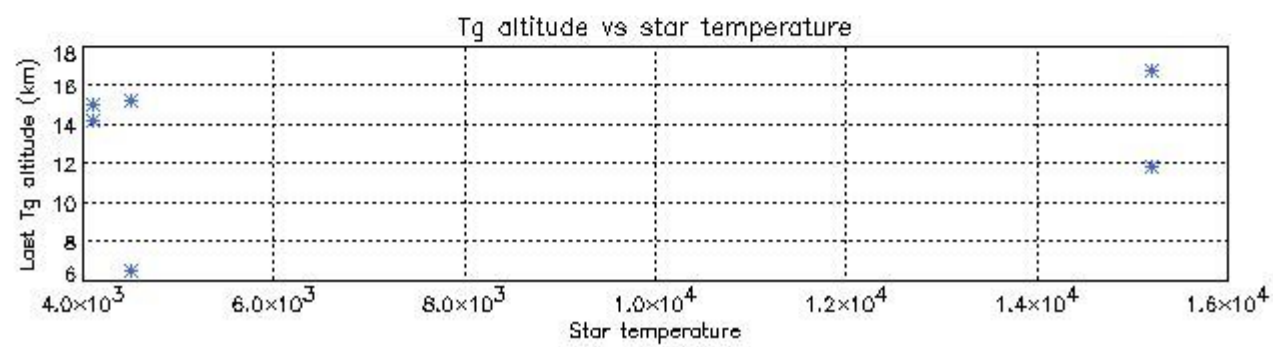
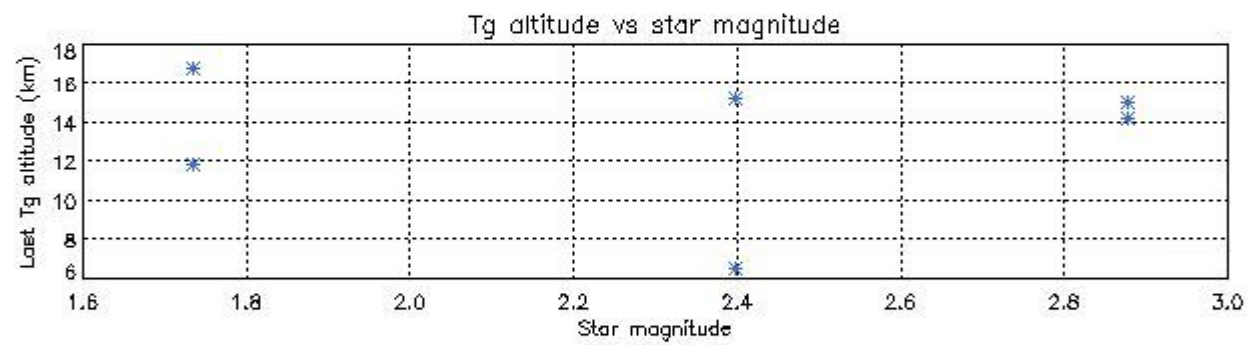
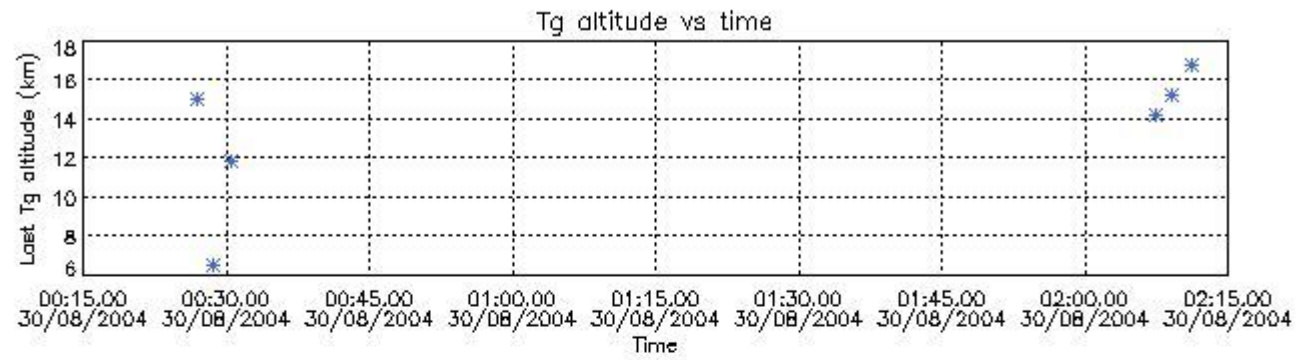
Tangent altitude at which the star is lost



### 6.3 Plot for TWILIGHT limb products



Tangent altitude at which the star is lost

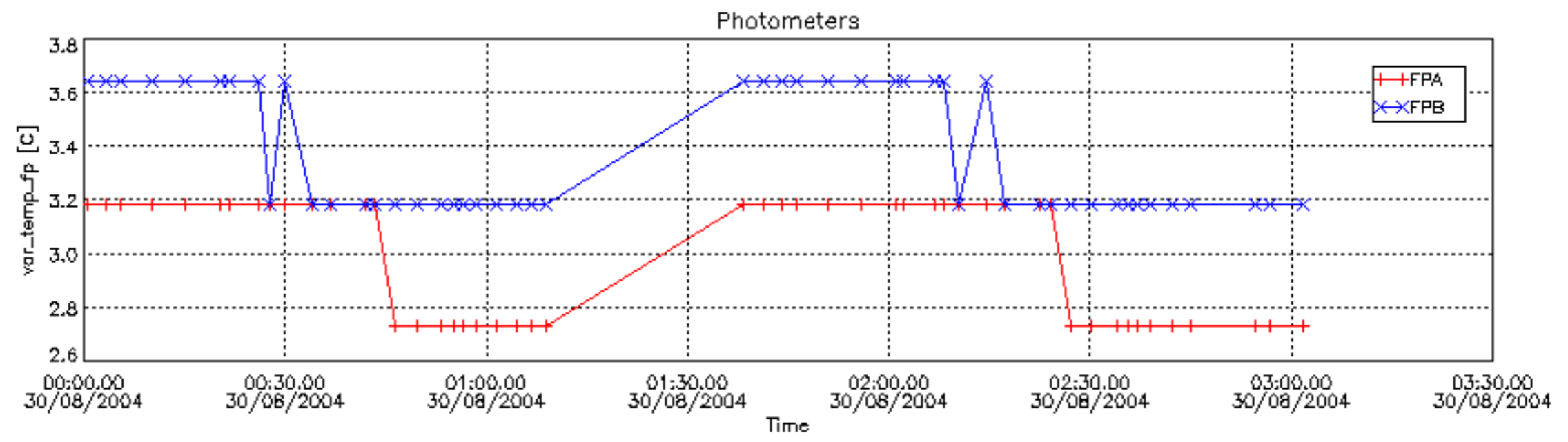
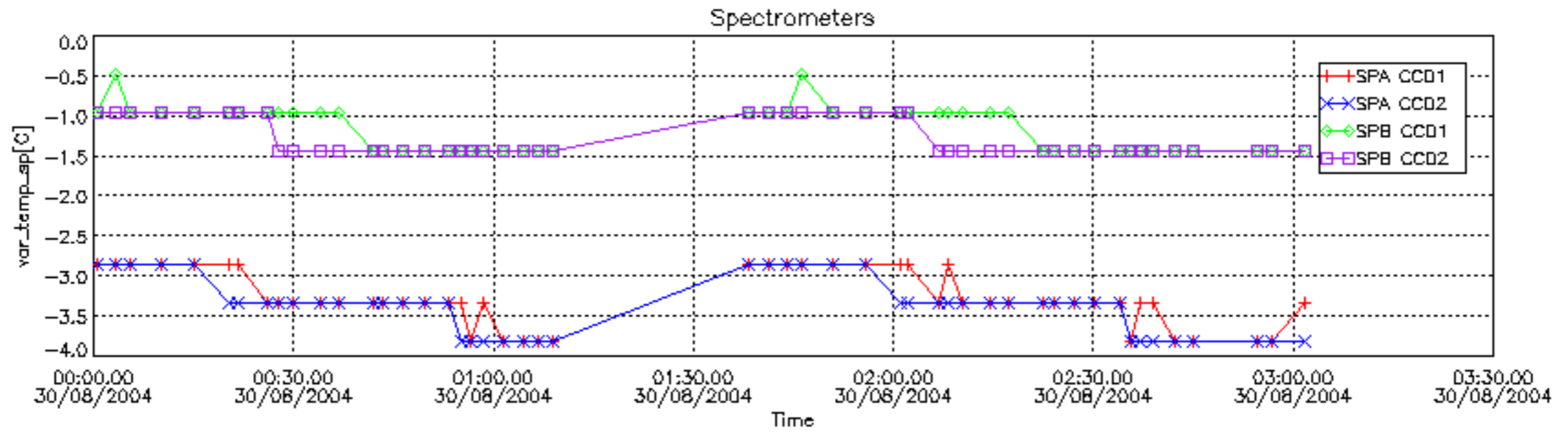


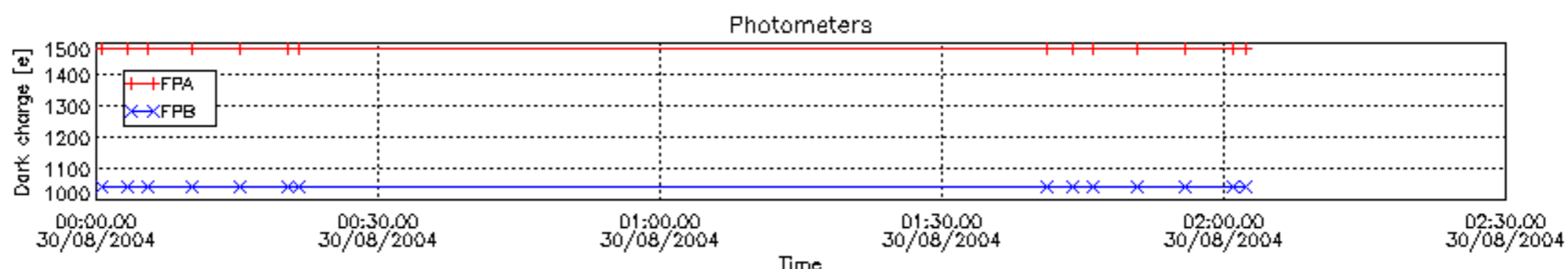
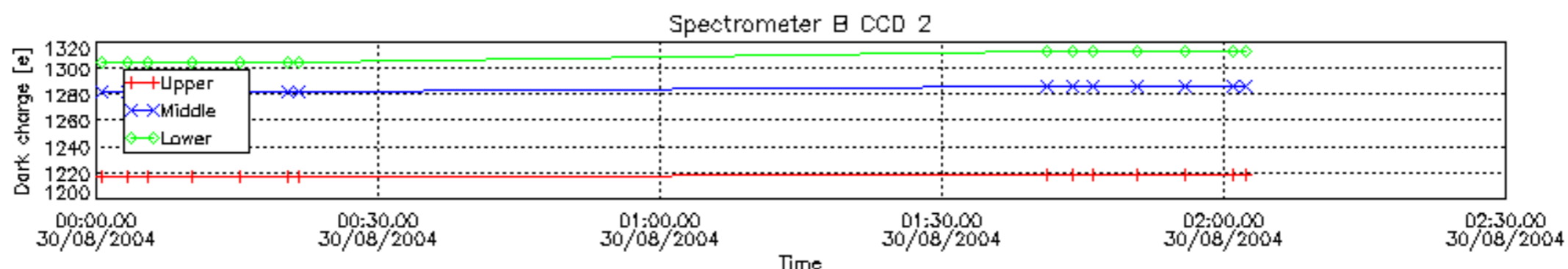
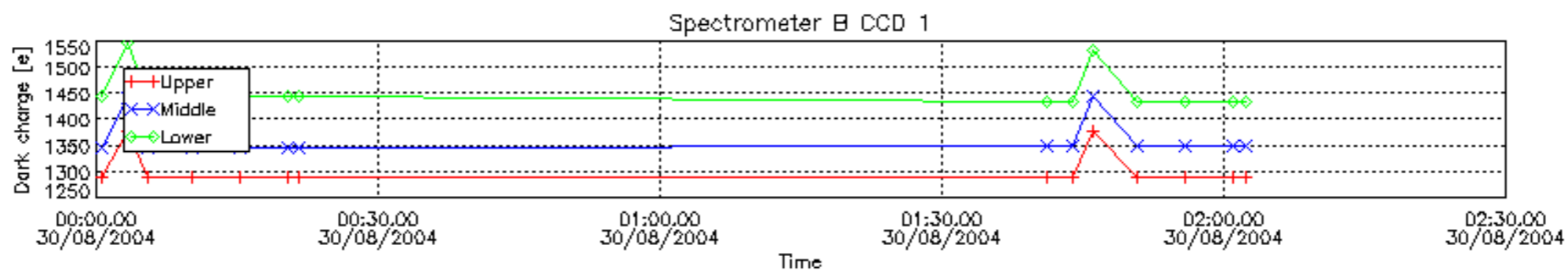
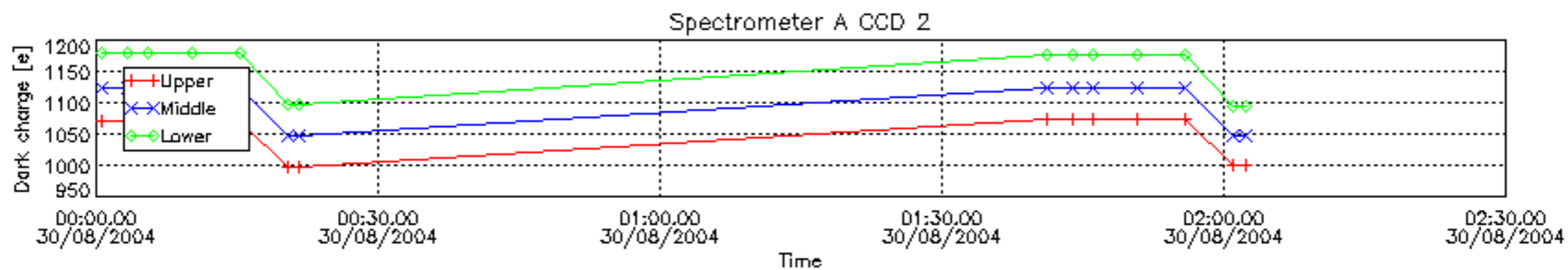
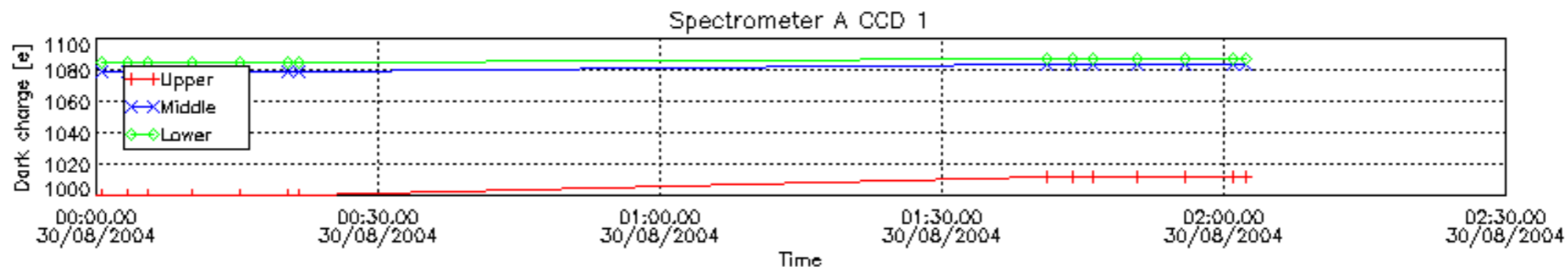
## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

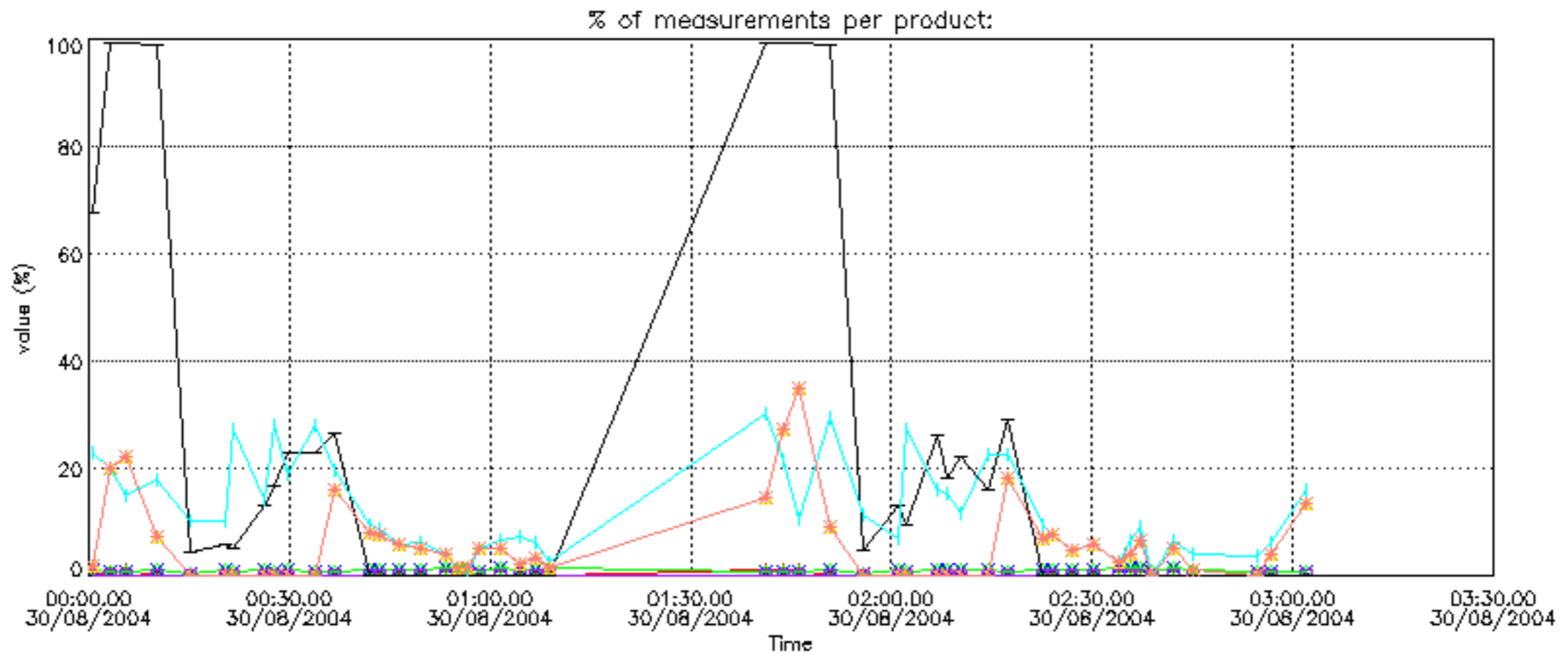
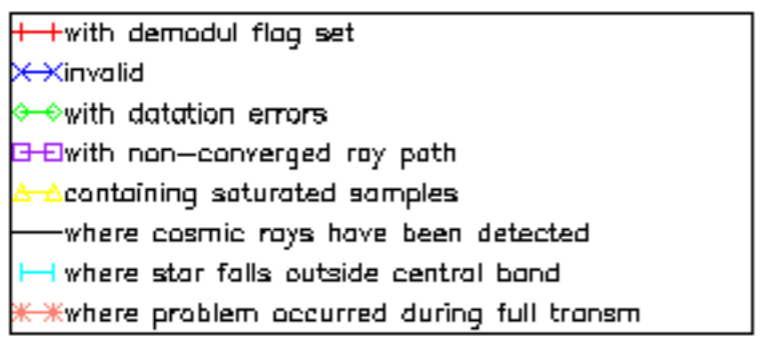
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

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:	1462.7	1448.3	1462.4	1447.8
St. deviation:	3.7517	4.6941	6.2123	6.7279
Maximum:	1518.0	1522.0	1507.0	1488.0
Minimum:	1454.0	1431.0	1450.0	1442.0
Number of data:	24900.	24900.	37950.	37950.

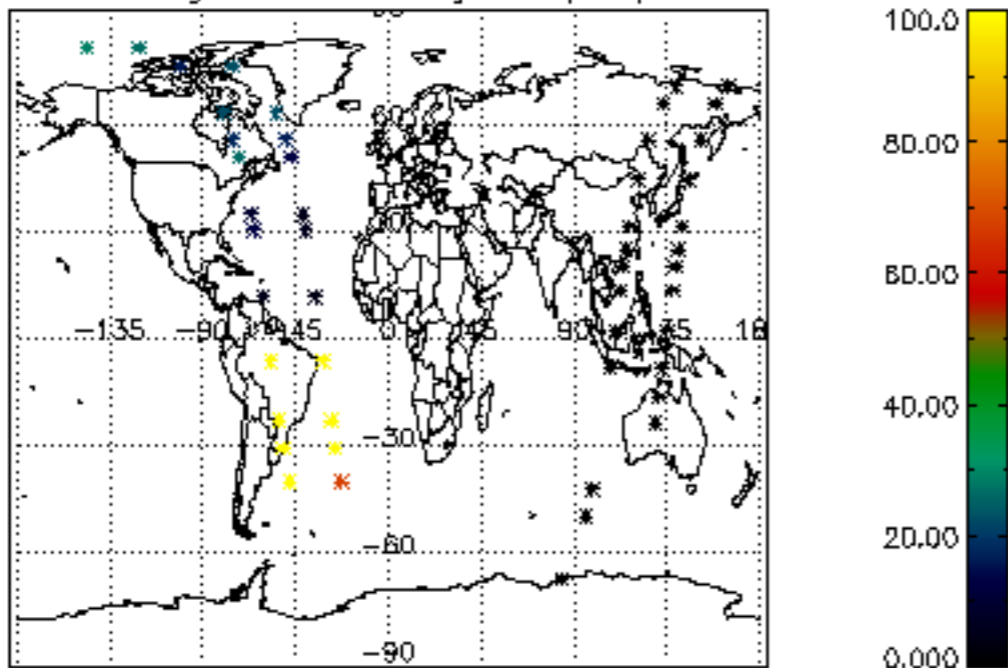




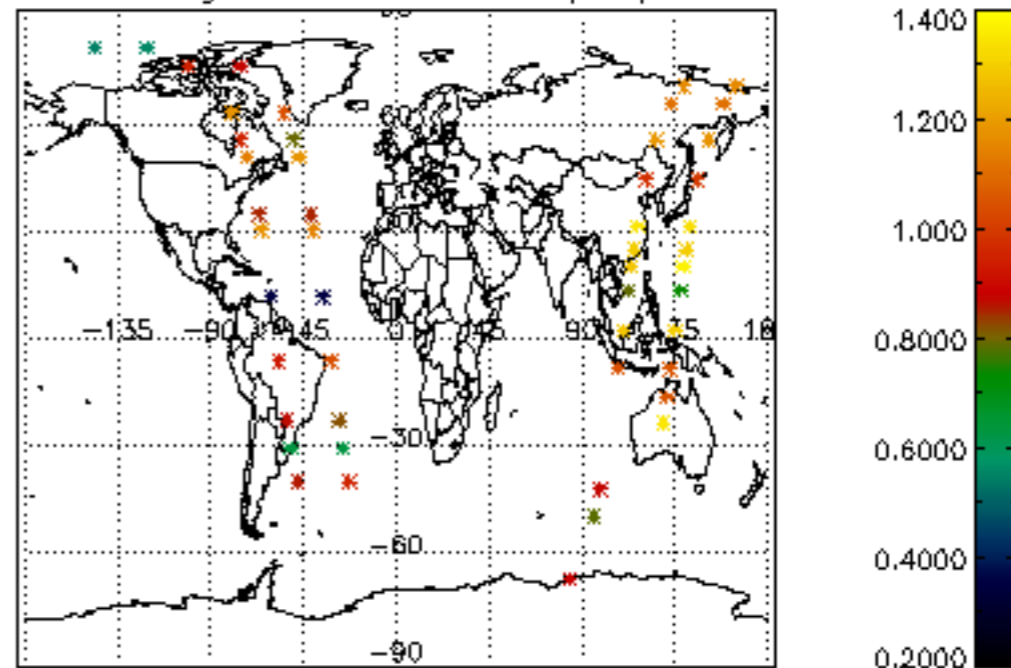




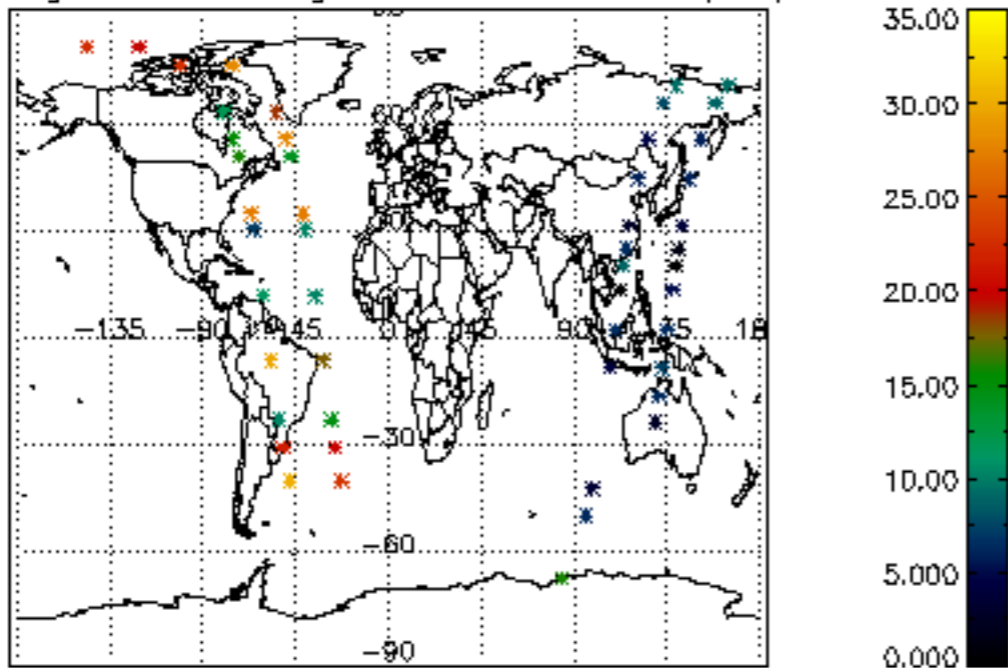
Percentage of cosmic ray hits per profile



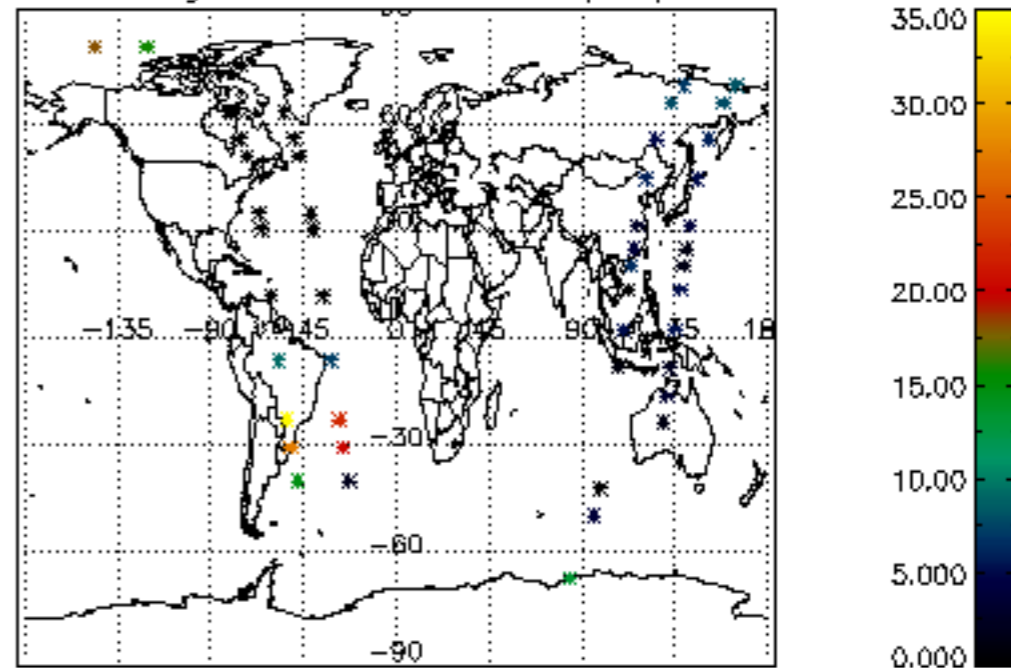
Percentage of datation errors per profile



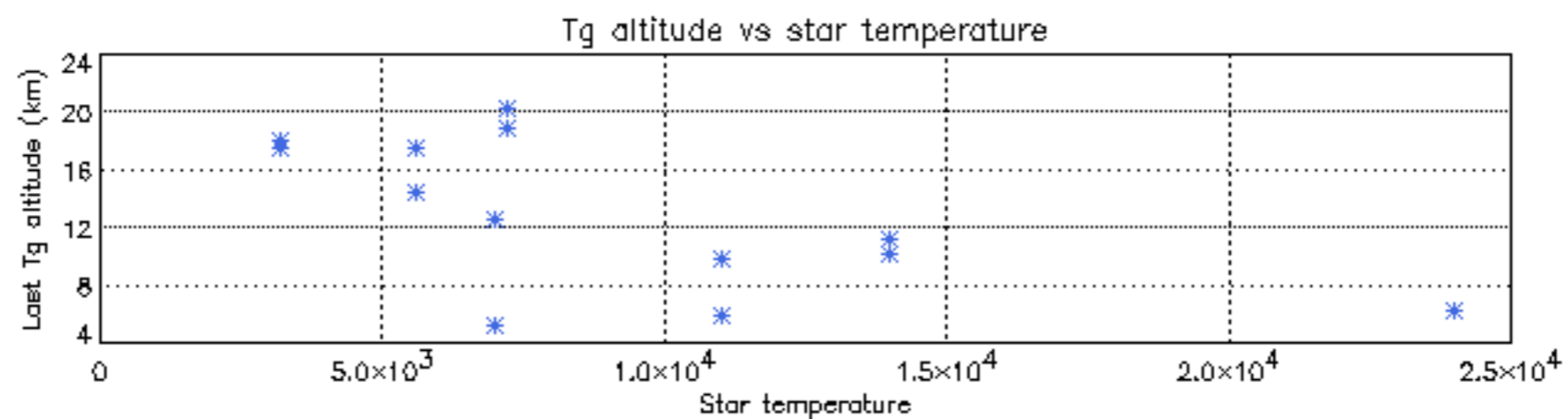
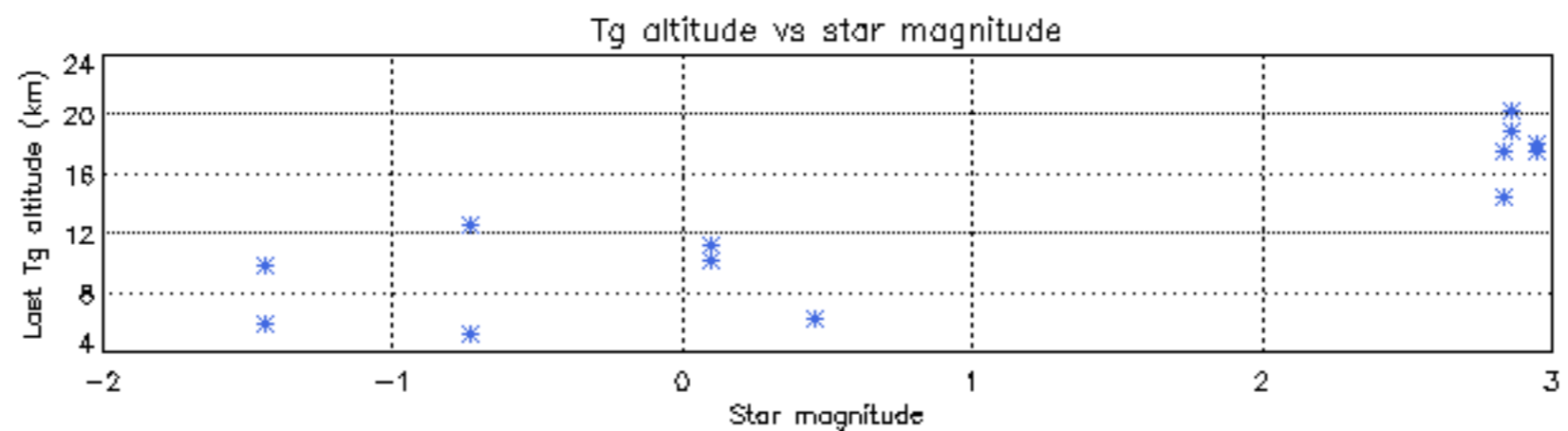
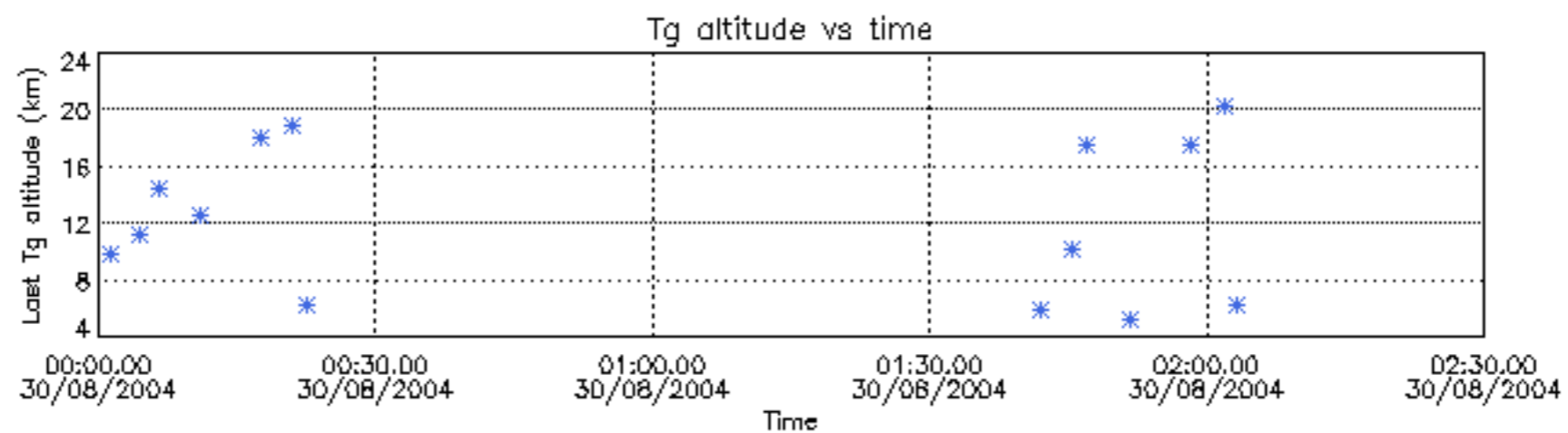
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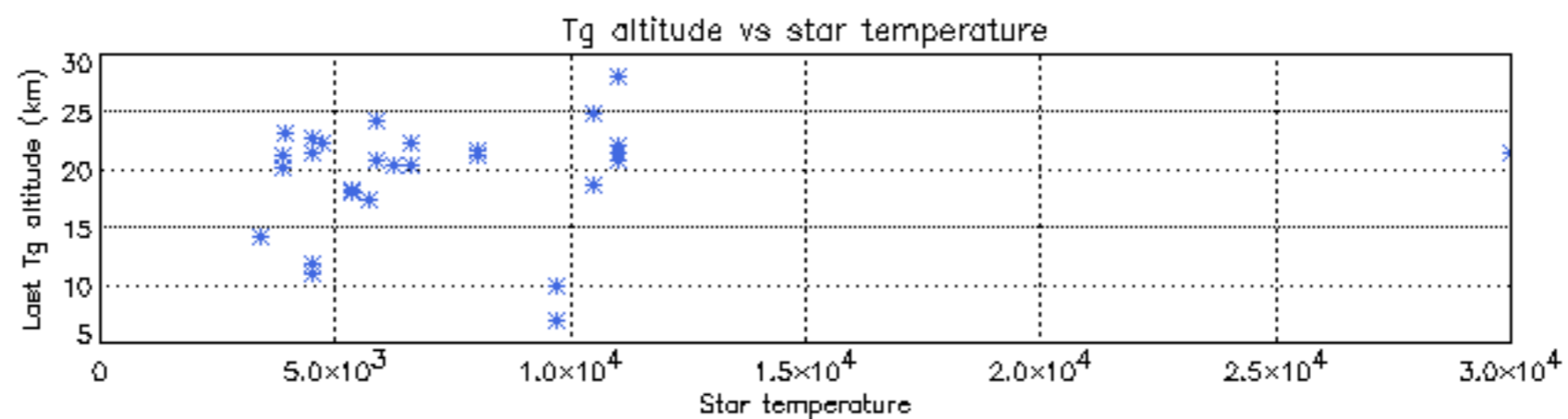
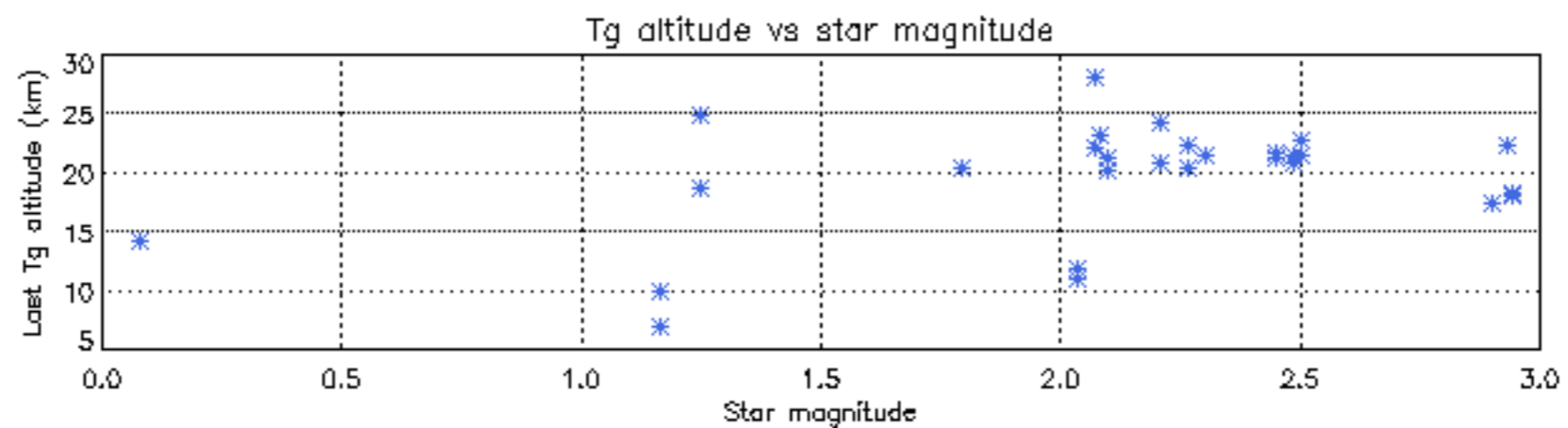
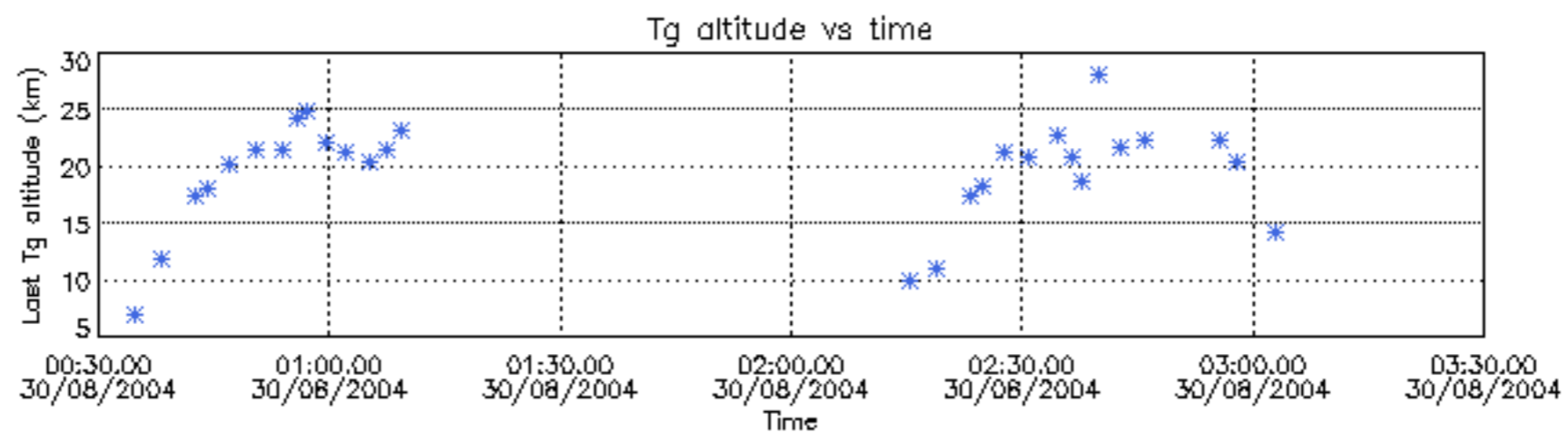
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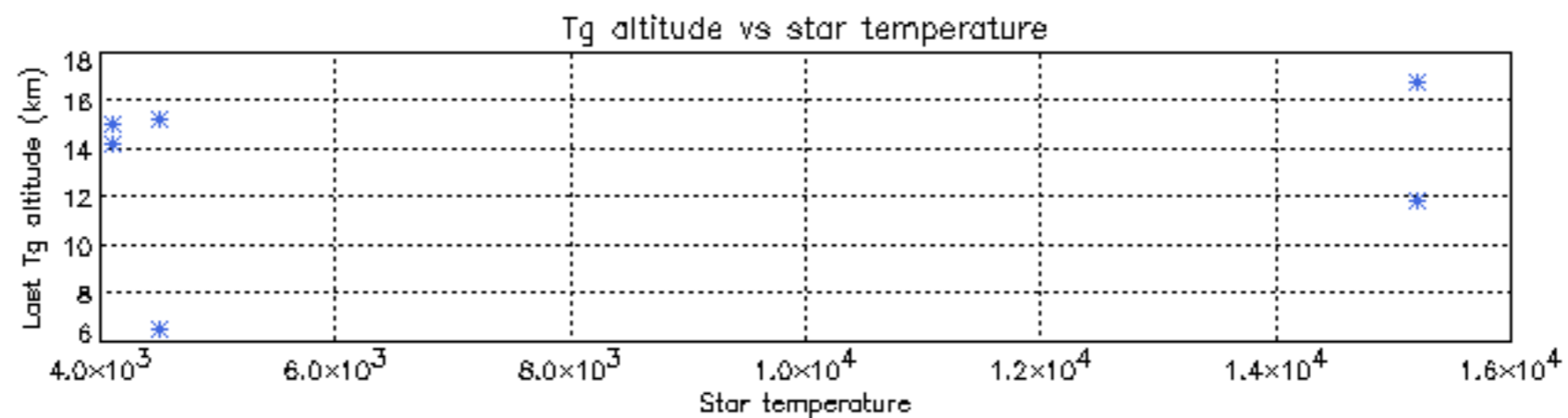
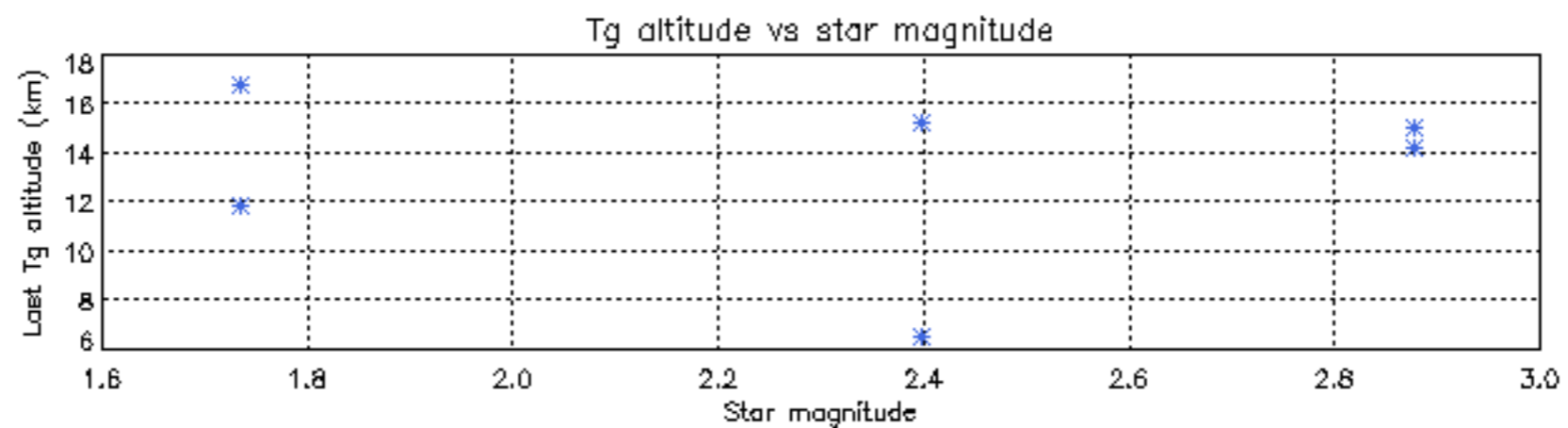
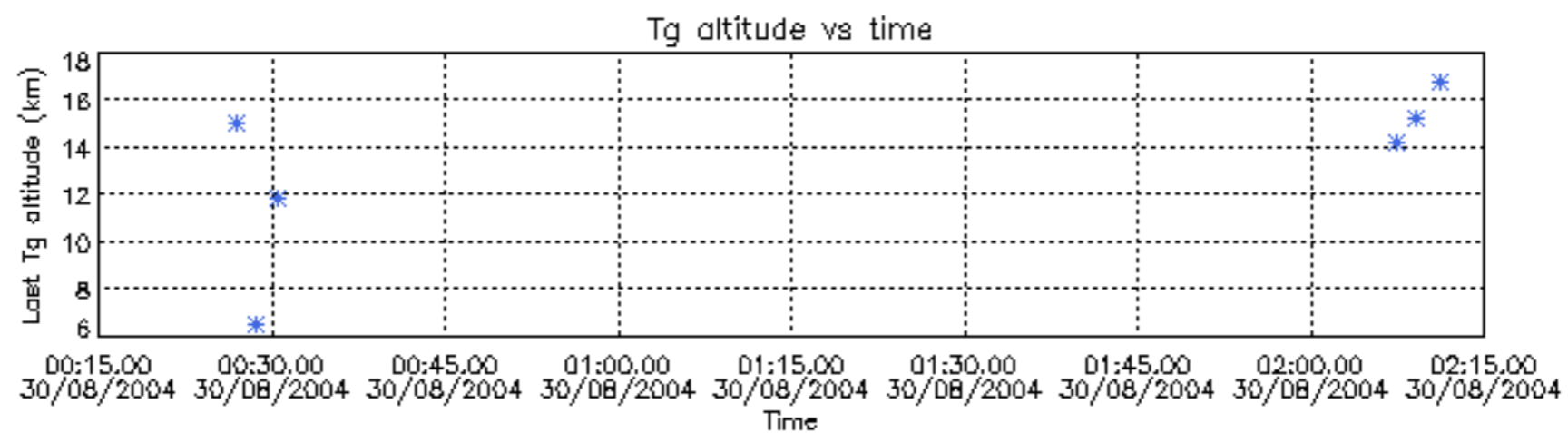
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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4; -3465.1; 02-AUG-2004 08:57:40; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;12672
5; -3346.8; 02-AUG-2004 08:59:38; Bright; 39.5; 144; 18Del Cyg ; 2.86; 11000;occ; 79; 0;12672

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6;-3235.8; 02-AUG-2004 09:01:29; Bright; 39.0; 69; 33Gam Dra ; 2.23; 3800;occ; 78; 0;12672
7;-2992.1; 02-AUG-2004 09:05:33; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;12672
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
15;-1238.0; 02-AUG-2004 09:34:47; Dark ; 59.5; 13; 87Alp Tau ; 0.87; 3800;occ; 119; 0;12672
16;-1119.8; 02-AUG-2004 09:36:45; Dark ; 41.0; 27; 24Gam Ori ; 1.64; 26000;occ; 82; 0;12672
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
29; 1147.4; 02-AUG-2004 10:14:32; Dark ; 67.5; 18; 24Alp PsA ; 1.17; 9700;occ; 135; 0;12673
30; 1416.3; 02-AUG-2004 10:19:01; Dark ; 52.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 104; 0;12673
31; 1570.5; 02-AUG-2004 10:21:35; Bright; 52.5; 142; 49Del Cap ; 2.85; 8900;occ; 105; 0;12673
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3;-3890.5; 02-AUG-2004 10:31:10; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;12673
4;-3465.1; 02-AUG-2004 10:38:15; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;12673
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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
10;-2456.9; 02-AUG-2004 10:55:04; Bright; 48.5; 76; 27Gam Cas ; 2.30; 30000;occ; 97; 0;12673
11;-2068.0; 02-AUG-2004 11:01:32; Bright; 51.5; 160; 23Gam Per ; 2.93; 4700;occ; 103; 0;12673
12;-1895.9; 02-AUG-2004 11:04:25; Bright; 88.5; 73; 57Gam1And ; 2.26; 13100;occ; 177; 0;12673
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
15;-1237.9; 02-AUG-2004 11:15:23; Dark ; 57.0; 13; 87Alp Tau ; 0.87; 3800;occ; 114; 0;12673
16;-1119.6; 02-AUG-2004 11:17:21; Dark ; 47.5; 27; 24Gam Ori ; 1.64; 26000;occ; 95; 0;12673
17;-1003.9; 02-AUG-2004 11:19:17; Dark ; 45.0; 30; 46Eps Ori ; 1.69; 30000;occ; 90; 0;12673
18; -924.0; 02-AUG-2004 11:20:36; Dark ; 42.0; 125; 44Iot Ori ; 2.77; 30000;occ; 84; 0;12673
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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2;-3979.7; 02-AUG-2004 12:10:17; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;12674
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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10;-2457.8; 02-AUG-2004 12:35:39; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;12674  
 11;-2068.3; 02-AUG-2004 12:42:08; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98; 0;12674  
 12;-1896.2; 02-AUG-2004 12:45:00; Bright; 89.5; 73; 57Gam1And ; 2.26; 13100;occ; 179; 0;12674  
 13;-1738.5; 02-AUG-2004 12:47:38; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12674  
 14;-1392.8; 02-AUG-2004 12:53:24; Dark ; 42.5; 176; 23Zet Tau ; 3.02; 22000;occ; 85; 0;12674  
 15;-1237.6; 02-AUG-2004 12:55:59; Dark ; 65.0; 13; 87Alp Tau ; 0.87; 3800;occ; 130; 0;12674  
 16;-1119.8; 02-AUG-2004 12:57:57; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;12674  
 17;-1003.7; 02-AUG-2004 12:59:53; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;12674  
 18; -923.7; 02-AUG-2004 13:01:13; Dark ; 42.0; 125; 44Iot Ori ; 2.77; 30000;occ; 84; 0;12674  
 19; -811.7; 02-AUG-2004 13:03:05; Dark ; 39.0; 1; 9Alp CMA ; -1.44; 11000;occ; 78; 0;12674  
 20; -723.8; 02-AUG-2004 13:04:33; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;12674  
 21; -565.1; 02-AUG-2004 13:07:11; Dark ; 58.0; 165; 34Gam Eri ; 2.95; 3200;occ; 116; 0;12674  
 22; -283.9; 02-AUG-2004 13:11:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12674  
 23; -0.3; 02-AUG-2004 13:16:36; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;12674  
 24; 323.4; 02-AUG-2004 13:22:00; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;12675  
 25; 430.4; 02-AUG-2004 13:23:47; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12675  
 26; 617.4; 02-AUG-2004 13:26:54; Dark ; 60.0; 84; Alp Phe ; 2.40; 4500;occ; 120; 0;12675  
 27; 727.7; 02-AUG-2004 13:28:44; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;12675  
 28; 931.1; 02-AUG-2004 13:32:07; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;12675  
 29; 1147.7; 02-AUG-2004 13:35:44; Dark ; 72.0; 18; 24Alp PsA ; 1.17; 9700;occ; 144; 0;12675  
 30; 1416.2; 02-AUG-2004 13:40:13; Dark ; 50.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 101; 0;12675  
 31; 1570.0; 02-AUG-2004 13:42:46; Bright; 1.5; 142; 49Del Cap ; 2.85; 8900;occ; 3; 0;12675

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Problem occurred when reading packet number 991!

Problem occurred when reading packet number 3241!

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 3;-3979.8; 02-AUG-2004 13:50:52; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;12675  
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 5;-3465.1; 02-AUG-2004 13:59:27; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;12675  
 6;-3347.6; 02-AUG-2004 14:01:25; Bright; 38.0; 144; 18Del Cyg ; 2.86; 11000;occ; 76; 0;12675  
 7;-3235.4; 02-AUG-2004 14:03:17; Bright; 41.0; 69; 33Gam Dra ; 2.23; 3800;occ; 82; 0;12675  
 8;-2991.4; 02-AUG-2004 14:07:21; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;12675  
 9;-2743.8; 02-AUG-2004 14:11:28; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;12675  
 10;-2596.7; 02-AUG-2004 14:13:56; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;12675  
 11;-2458.3; 02-AUG-2004 14:16:14; Bright; 50.5; 76; 27Gam Cas ; 2.30; 30000;occ; 101; 0;12675  
 12;-2067.8; 02-AUG-2004 14:22:45; Bright; 316.0; 160; 23Gam Per ; 2.93; 4700;occ; 632; 547;12675  
 13;-144771048.8; 01-JAN-2000 00:46:23; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98; 90;12675  
 14;-144770922.2; 01-JAN-2000 00:48:30; Bright; 87.0; 73; 57Gam1And ; 2.26; 13100;occ; 174; 0;12675  
 15;-144770764.8; 01-JAN-2000 00:51:07; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12675  
 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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 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  
 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  
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1;-4620.6; 02-AUG-2004 15:20:48; Dark ; 46.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 92; 0;12676  
 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

10;	-2744.2;	02-AUG-2004	15:52:04;	Bright;	36.0;	60;	7Bet UMi	; 2.08;	3950;occ;	72;	0;	12676
11;	-2597.0;	02-AUG-2004	15:54:31;	Bright;	38.5;	49;	1Alp UMi	; 1.99;	6300;occ;	77;	0;	12676
12;	-2459.2;	02-AUG-2004	15:56:49;	Bright;	50.5;	76;	27Gam Cas	; 2.30;	30000;occ;	101;	0;	12676
13;	-2068.1;	02-AUG-2004	16:03:20;	Bright;	70.0;	160;	23Gam Per	; 2.93;	4700;occ;	140;	0;	12676
14;	-1897.7;	02-AUG-2004	16:06:11;	Bright;	85.5;	73;	57Gam1And	; 2.26;	13100;occ;	171;	0;	12676
15;	-1740.9;	02-AUG-2004	16:08:47;	Dark	; 255.0;	53;	43Bet And	; 2.05;	3300;occ;	510;	0;	12676
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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21;	-811.1;	02-AUG-2004	16:24:17;	Dark	; 44.0;	1;	9Alp CMA	; -1.44;	11000;occ;	88;	0;	12676
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
24;	-477.1;	02-AUG-2004	16:29:51;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	12676
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
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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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18;-1510.3; 05-AUG-2004 19:39:34; Dark ; 46.5; 28; 12Bet Tau ; 1.65; 15200;occ; 93; 0;12721
19;-1381.2; 05-AUG-2004 19:41:44; Dark ; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;12721
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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