

# GOMOS Daily Report 17-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	18AUG2004 05:03:35
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START) (17AUG2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (18AUG2004 00:00:00)

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

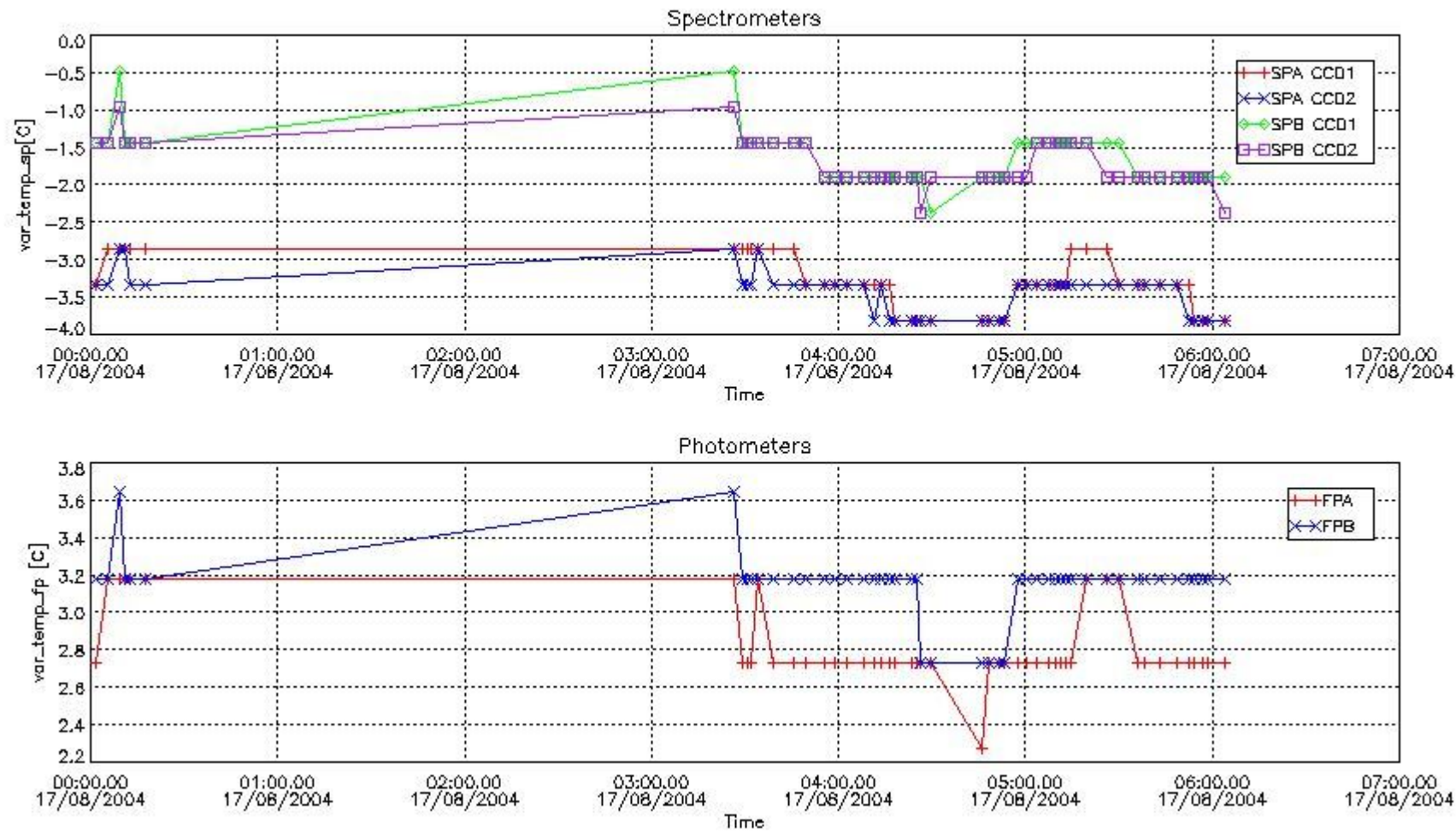
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20040817_000151_000000892029_00302_12881_0027.N1	17-AUG-2004 00:01:51	Dark	89.000	13	87Alp Tau	0.86700	3800.0	178	12881	No
GOM_TRA_1PNPDE20040817_000524_000000542029_00302_12881_0028.N1	17-AUG-2004 00:05:24	Dark	54.000	30	46Eps Ori	1.6940	30000.	108	12881	No
GOM_TRA_1PNPDE20040817_000924_000000402029_00302_12881_0000.N1	17-AUG-2004 00:09:24	Dark	40.000	179	24Omi2CMa	3.0320	24000.	80	12881	No
GOM_TRA_1PNPDE20040817_001051_000000462029_00302_12881_0001.N1	17-AUG-2004 00:10:51	Dark	45.500	23	21Eps CMa	1.5020	26000.	91	12881	No
GOM_TRA_1PNPDE20040817_001250_000000472029_00302_12881_0002.N1	17-AUG-2004 00:12:50	Dark	46.500	117	Pi Pup	2.7060	3800.0	93	12881	No
GOM_TRA_1PNPDE20040817_001739_000000492029_00302_12881_0003.N1	17-AUG-2004 00:17:39	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	12881	No
GOM_TRA_1PNPDE20040817_032640_000000532029_00304_12883_0000.N1	17-AUG-2004 03:26:40	Dark	52.500	30	46Eps Ori	1.6940	30000.	105	12883	No
GOM_TRA_1PNPDE20040817_032900_000000452029_00304_12883_0001.N1	17-AUG-2004 03:29:00	Dark	44.500	1	9Alp CMa	-1.4400	11000.	89	12883	No
GOM_TRA_1PNPDE20040817_033037_000000392029_00304_12883_0002.N1	17-AUG-2004 03:30:37	Dark	38.500	179	24Omi2CMa	3.0320	24000.	77	12883	No
GOM_TRA_1PNPDE20040817_033204_000000432029_00304_12883_0003.N1	17-AUG-2004 03:32:04	Dark	42.500	23	21Eps CMa	1.5020	26000.	85	12883	No
GOM_TRA_1PNPDE20040817_033402_000000432029_00304_12883_0004.N1	17-AUG-2004 03:34:02	Dark	42.500	117	Pi Pup	2.7060	3800.0	85	12883	No
GOM_TRA_1PNPDE20040817_033854_000000502029_00304_12883_0005.N1	17-AUG-2004 03:38:54	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	12883	No
GOM_TRA_1PNPDE20040817_034533_000000542029_00305_12884_0006.N1	17-AUG-2004 03:45:33	Dark	54.000	157	The1Eri	2.9060	9300.0	108	12884	No
GOM_TRA_1PNPDE20040817_034930_000000492029_00305_12884_0007.N1	17-AUG-2004 03:49:30	Dark	48.500	9	Alp Eri	0.45300	24000.	97	12884	No
GOM_TRA_1PNPDE20040817_035517_000000602029_00305_12884_0008.N1	17-AUG-2004 03:55:17	Twilight	60.000	84	Alp Phe	2.3970	4500.0	120	12884	No
GOM_TRA_1PNPDE20040817_035843_000000472029_00305_12884_0009.N1	17-AUG-2004 03:58:43	Bright	46.500	31	Alp Gru	1.7340	15200.	93	12884	No
GOM_TRA_1PNPDE20040817_040241_000000582029_00305_12884_0010.N1	17-AUG-2004 04:02:41	Bright	57.500	18	24Alp PsA	1.1660	9700.0	115	12884	No
GOM_TRA_1PNPDE20040817_040815_000000442029_00305_12884_0011.N1	17-AUG-2004 04:08:15	Bright	44.000	142	49Del Cap	2.8500	8900.0	88	12884	No
GOM_TRA_1PNPDE20040817_041140_000000442029_00305_12884_0012.N1	17-AUG-2004 04:11:40	Bright	43.500	154	22Bet Aqr	2.8990	5700.0	87	12884	No
GOM_TRA_1PNPDE20040817_041338_000000502029_00305_12884_0013.N1	17-AUG-2004 04:13:38	Bright	50.000	162	34Alp Aqr	2.9440	5350.0	100	12884	No
GOM_TRA_1PNPDE20040817_041609_000000382029_00305_12884_0014.N1	17-AUG-2004 04:16:09	Bright	38.000	11	53Alp Aql	0.76500	8000.0	76	12884	No
GOM_TRA_1PNPDE20040817_041804_000000382029_00305_12884_0015.N1	17-AUG-2004 04:18:04	Bright	37.500	168	17Zet Aql	2.9860	11000.	75	12884	No
GOM_TRA_1PNPDE20040817_042320_000000412029_00305_12884_0016.N1	17-AUG-2004 04:23:20	Bright	40.500	92	53Eps Cyg	2.5000	4500.0	81	12884	No
GOM_TRA_1PNPDE20040817_042458_000000392029_00305_12884_0017.N1	17-AUG-2004 04:24:58	Bright	39.000	66	37Gam Cyg	2.2080	5900.0	78	12884	No
GOM_TRA_1PNPDE20040817_042617_000000372029_00305_12884_0018.N1	17-AUG-2004 04:26:17	Bright	36.500	144	18Del Cyg	2.8600	11000.	73	12884	No
GOM_TRA_1PNPDE20040817_042921_000000402029_00305_12884_0019.N1	17-AUG-2004 04:29:21	Bright	39.500	69	33Gam Dra	2.2310	3800.0	79	12884	No
GOM_TRA_1PNPDE20040817_044606_000000552029_00305_12884_0000.N1	17-AUG-2004 04:46:06	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	12884	No
GOM_TRA_1PNPDE20040817_044807_000000602029_00305_12884_0001.N1	17-AUG-2004 04:48:07	Bright	59.500	35	33Alp Per	1.7950	6250.0	119	12884	No
GOM_TRA_1PNPDE20040817_045133_000000512029_00305_12884_0002.N1	17-AUG-2004 04:51:33	Bright	50.500	6	13Alp Aur	0.080000	3400.0	101	12884	No
GOM_TRA_1PNPDE20040817_045312_000000622029_00305_12884_0003.N1	17-AUG-2004 04:53:12	Twilight	62.000	149	45Eps Per	2.8880	30000.	124	12884	No
GOM_TRA_1PNPDE20040817_045739_000000502029_00305_12884_0004.N1	17-AUG-2004 04:57:39	Twilight	50.000	28	12Bet Tau	1.6500	15200.	100	12884	No
GOM_TRA_1PNPDE20040817_050027_000000452029_00305_12884_0005.N1	17-AUG-2004 05:00:27	Twilight	44.500	44	24Gam Gem	1.9280	11000.	89	12884	No
GOM_TRA_1PNPDE20040817_050342_000000782029_00305_12884_0006.N1	17-AUG-2004 05:03:42	Dark	77.500	13	87Alp Tau	0.86700	3800.0	155	12884	No
GOM_TRA_1PNPDE20040817_050717_000000502029_00305_12884_0007.N1	17-AUG-2004 05:07:17	Dark	49.500	30	46Eps Ori	1.6940	30000.	99	12884	No
GOM_TRA_1PNPDE20040817_050936_000000402029_00305_12884_0008.N1	17-AUG-2004 05:09:36	Dark	40.000	1	9Alp CMa	-1.4400	11000.	80	12884	No
GOM_TRA_1PNPDE20040817_051113_000000372029_00305_12884_0009.N1	17-AUG-2004 05:11:13	Dark	37.000	179	24Omi2CMa	3.0320	24000.	74	12884	No
GOM_TRA_1PNPDE20040817_051240_000000422029_00305_12884_0010.N1	17-AUG-2004 05:12:40	Dark	41.500	23	21Eps CMa	1.5020	26000.	83	12884	No
GOM_TRA_1PNPDE20040817_051438_000000412029_00305_12884_0011.N1	17-AUG-2004 05:14:38	Dark	41.000	117	Pi Pup	2.7060	3800.0	82	12884	No
GOM_TRA_1PNPDE20040817_051930_000000462029_00305_12884_0012.N1	17-AUG-2004 05:19:30	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	12884	No
GOM_TRA_1PNPDE20040817_052609_000000562029_00306_12885_0013.N1	17-AUG-2004 05:26:09	Dark	55.500	157	The1Eri	2.9060	9300.0	111	12885	No
GOM_TRA_1PNPDE20040817_053007_000000482029_00306_12885_0014.N1	17-AUG-2004 05:30:07	Dark	48.000	9	Alp Eri	0.45300	24000.	96	12885	No
GOM_TRA_1PNPDE20040817_053554_000000532029_00306_12885_0015.N1	17-AUG-2004 05:35:54	Twilight	53.000	84	Alp Phe	2.3970	4500.0	106	12885	No
GOM_TRA_1PNPDE20040817_053818_000000432029_00306_12885_0016.N1	17-AUG-2004 05:38:18	Twilight	43.000	45	Alp Pav	1.9400	26000.	86	12885	No
GOM_TRA_1PNPDE20040817_054317_000000582029_00306_12885_0017.N1	17-AUG-2004 05:43:17	Bright	58.000	18	24Alp PsA	1.1660	9700.0	116	12885	No
GOM_TRA_1PNPDE20040817_054851_000000462029_00306_12885_0018.N1	17-AUG-2004 05:48:51	Bright	45.500	142	49Del Cap	2.8500	8900.0	91	12885	No
GOM_TRA_1PNPDE20040817_055216_000000442029_00306_12885_0019.N1	17-AUG-2004 05:52:16	Bright	44.000	154	22Bet Aqr	2.8990	5700.0	88	12885	No
GOM_TRA_1PNPDE20040817_055415_000000502029_00306_12885_0020.N1	17-AUG-2004 05:54:15	Bright	50.000	162	34Alp Aqr	2.9440	5350.0	100	12885	No
GOM_TRA_1PNPDE20040817_055645_000000382029_00306_12885_0021.N1	17-AUG-2004 05:56:45	Bright	38.000	11	53Alp Aql	0.76500	8000.0	76	12885	No
GOM_TRA_1PNPDE20040817_055839_000000382029_00306_12885_0022.N1	17-AUG-2004 05:58:39	Bright	38.000	168	17Zet Aql	2.9860	11000.	76	12885	No

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



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

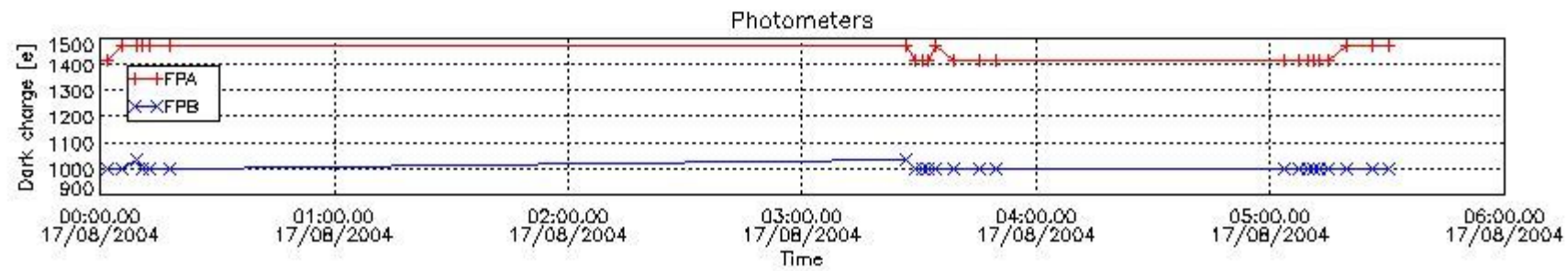
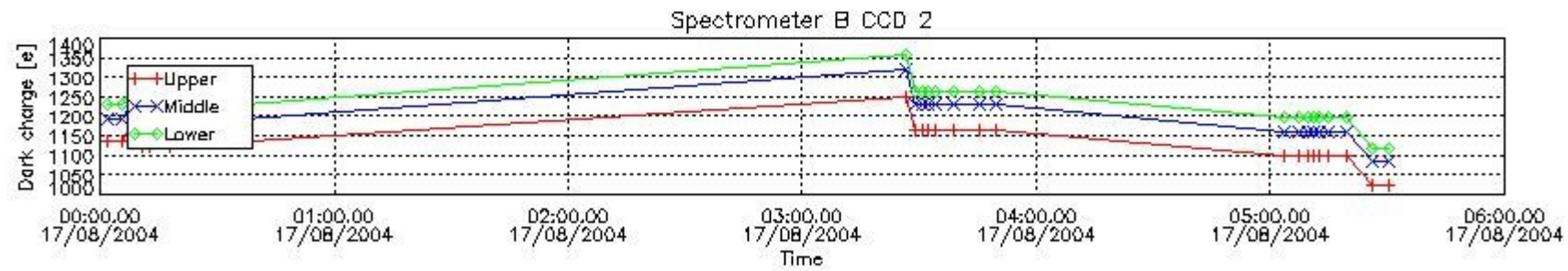
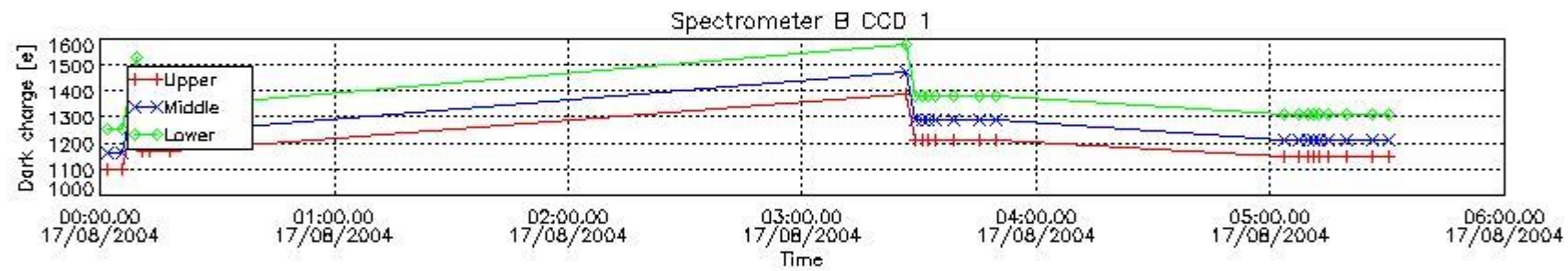
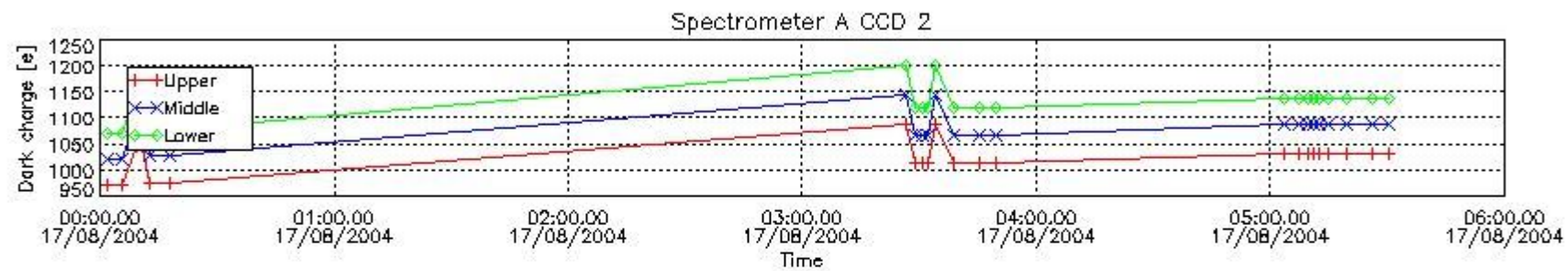
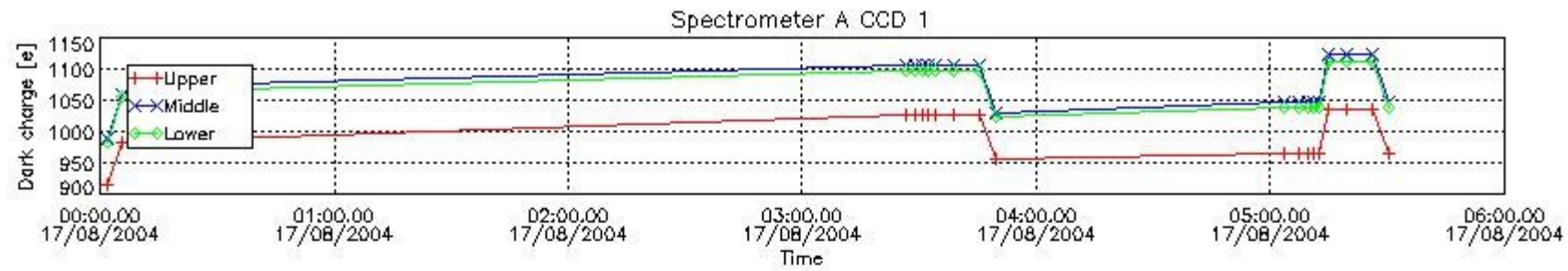
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





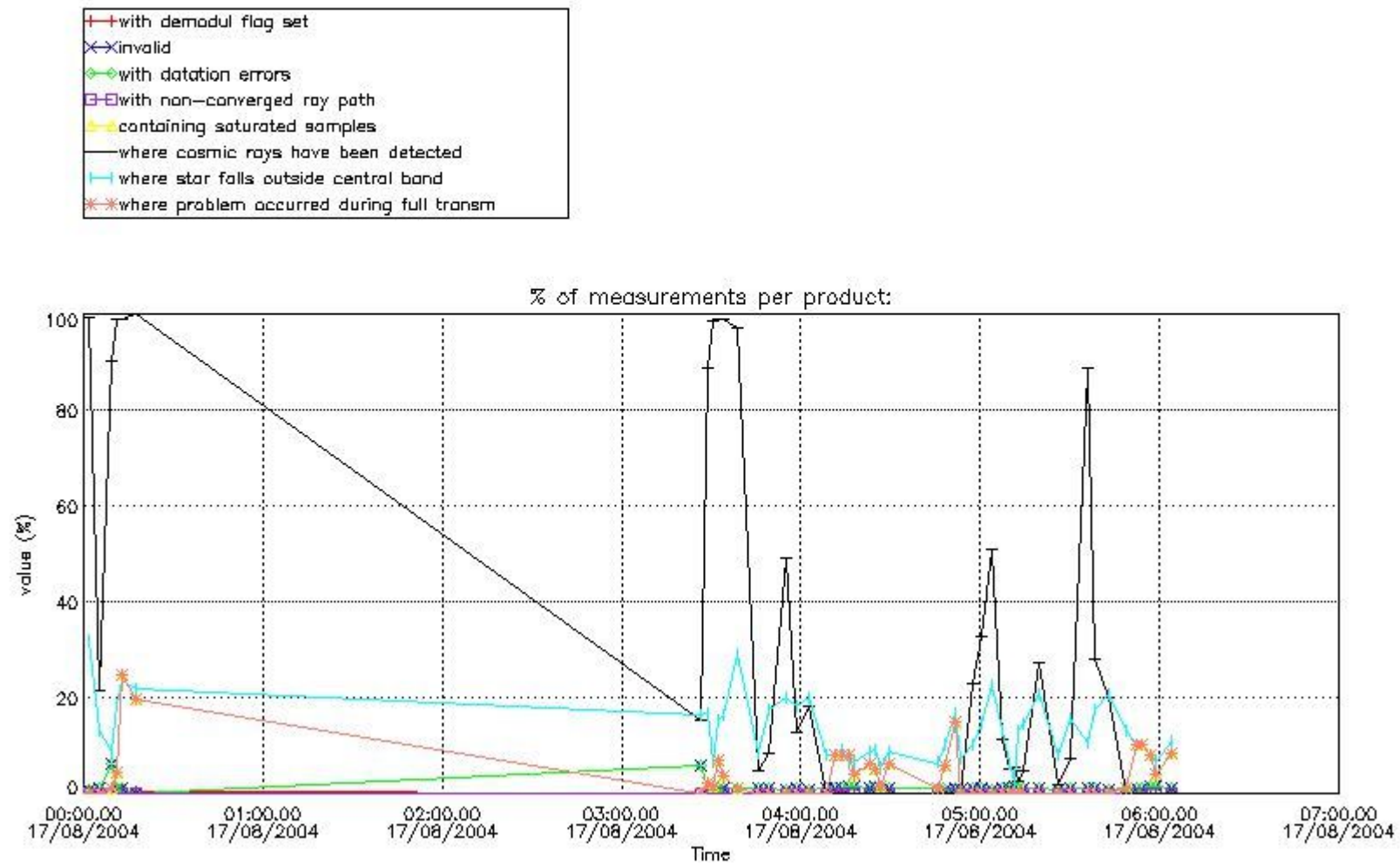
## 5. Demodulation flag and quality information monitoring

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:

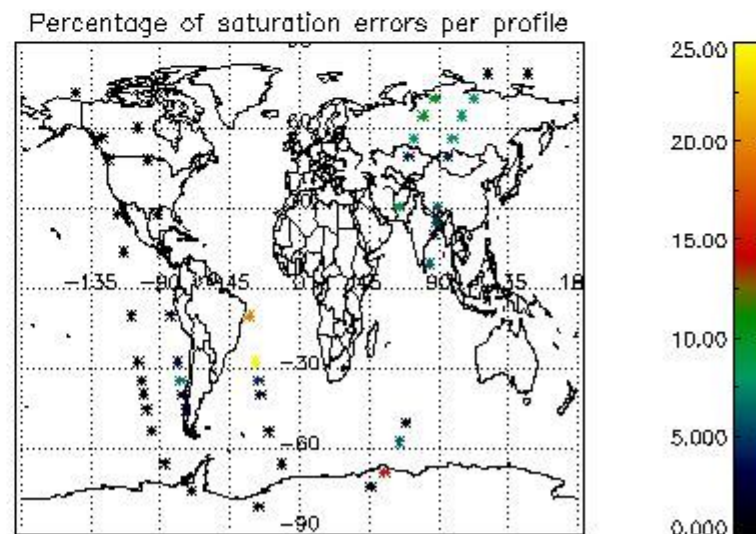
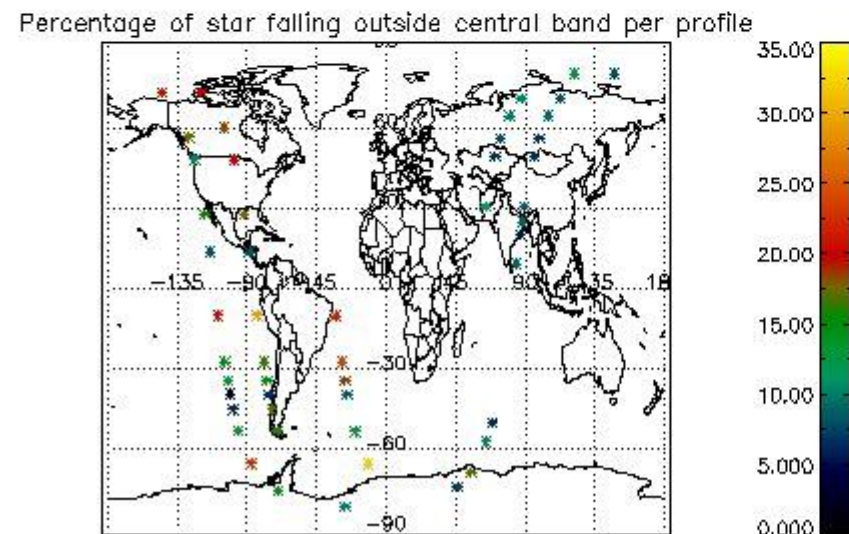
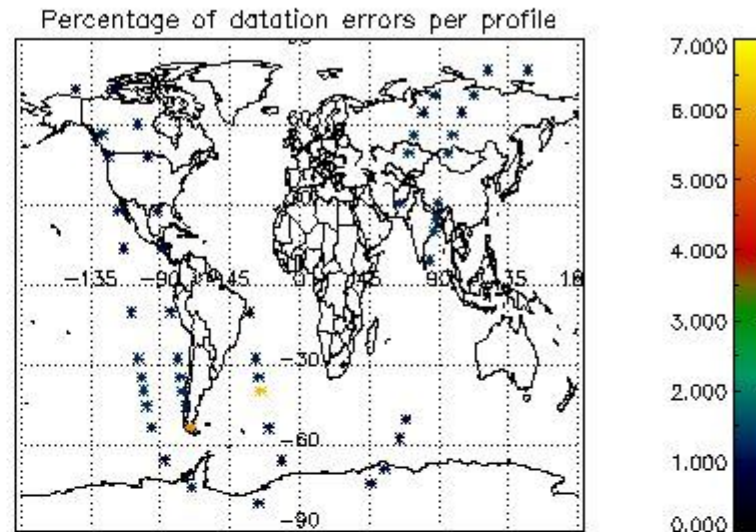
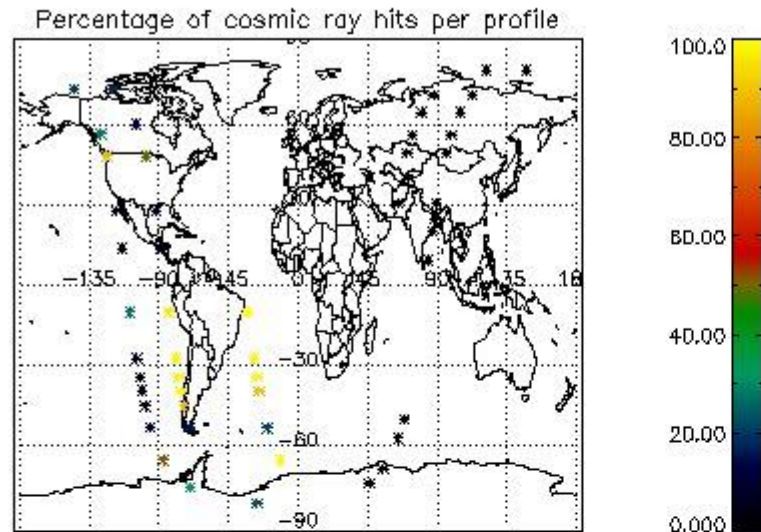
At least one measurement with demodulation flag set:	28.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





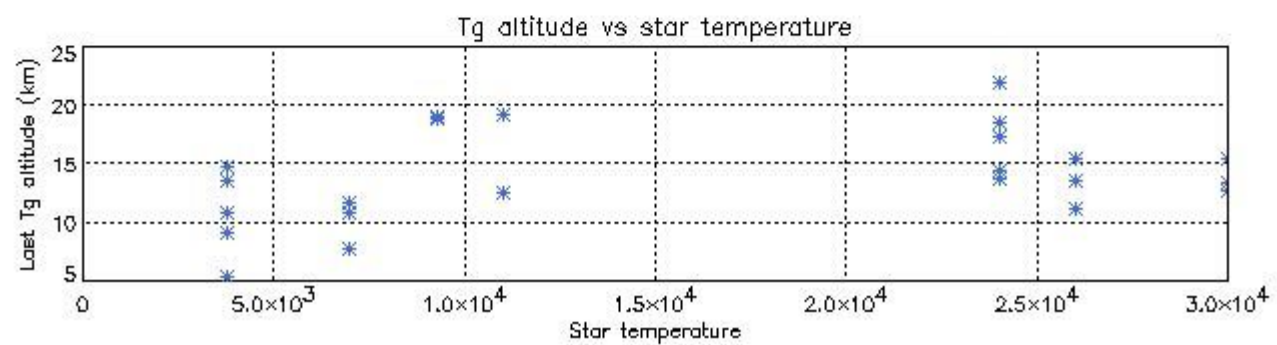
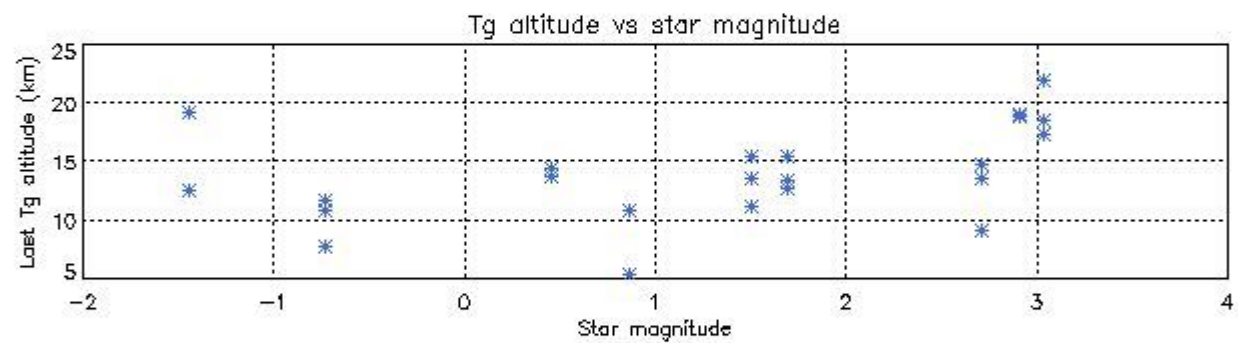
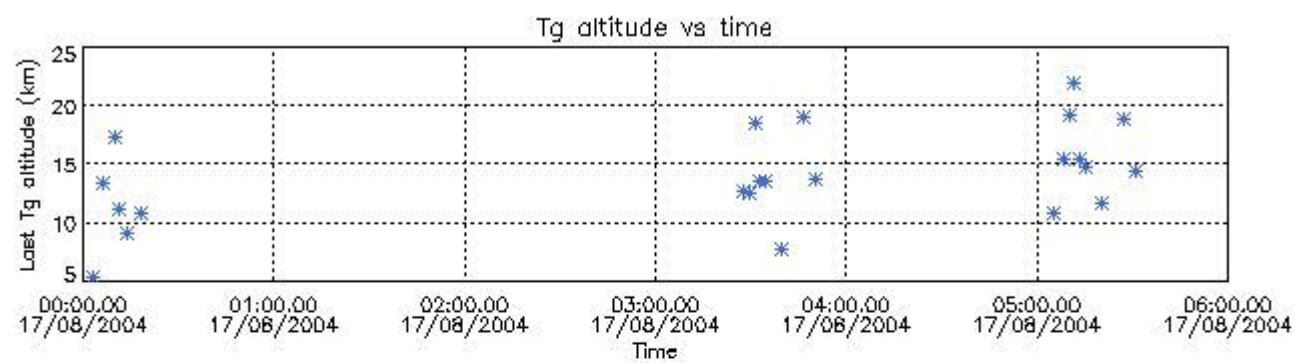
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.938	17.643	15.309
St. deviation:	4.0039	3.0420	3.0222
Maximum:	21.950	21.884	19.527
Minimum:	5.3733	11.308	11.655
Number of data:	23.000	21.000	6.0000

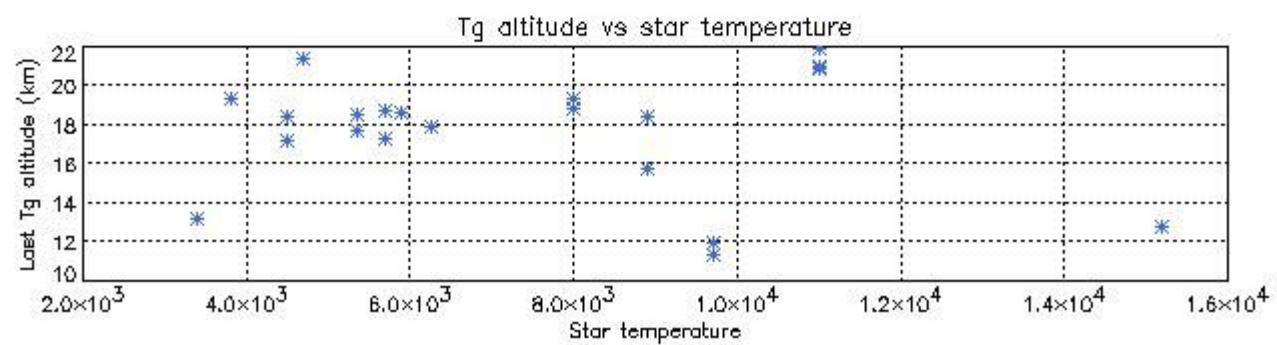
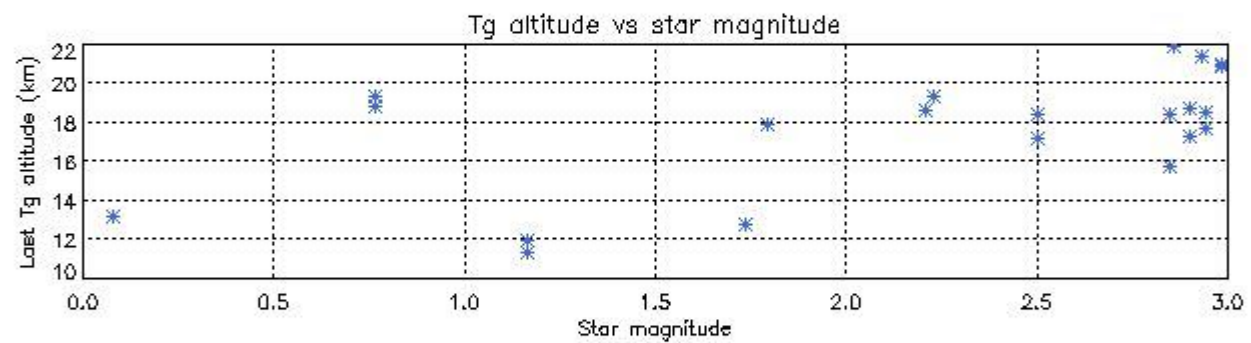
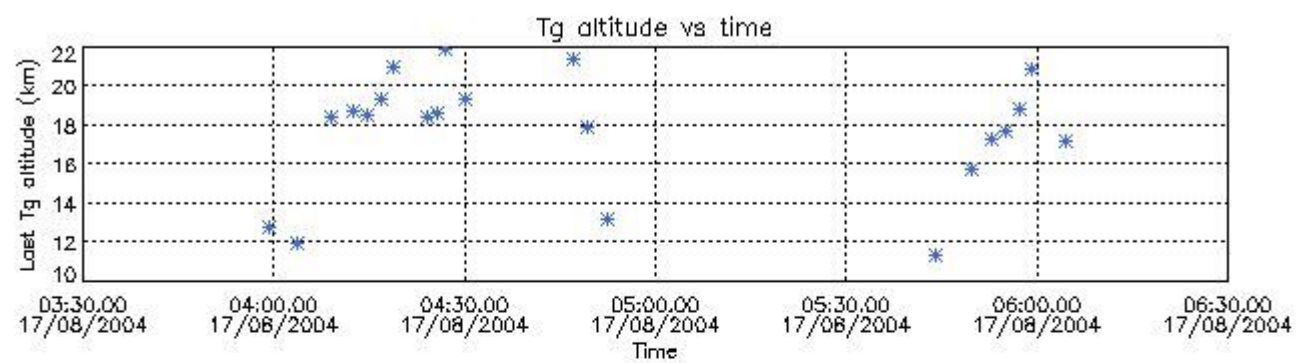
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



### 6.3 Plot for BRIGHT limb products

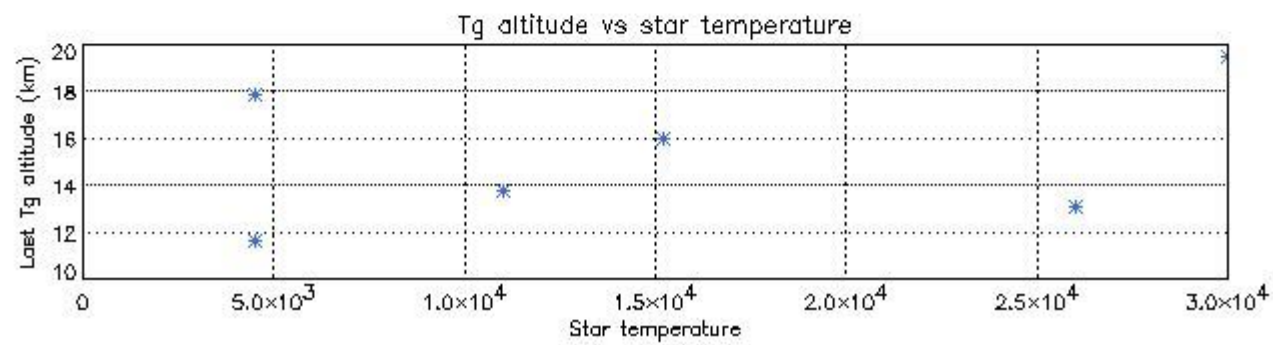
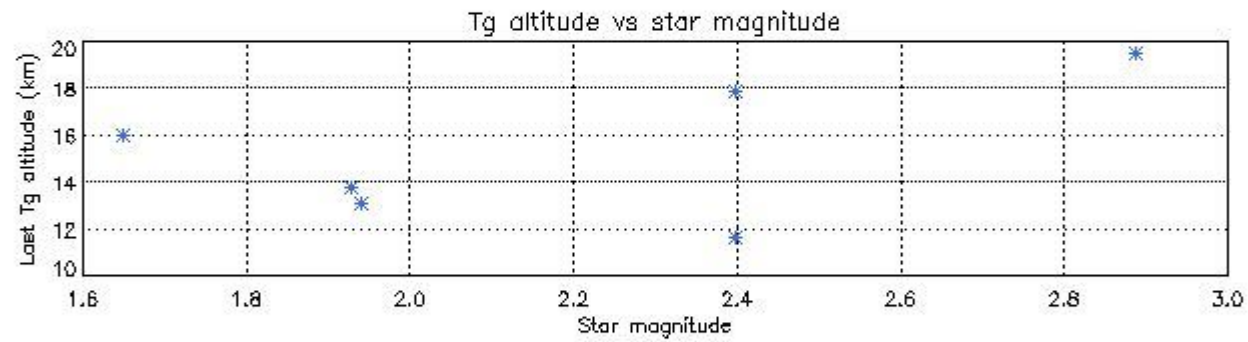
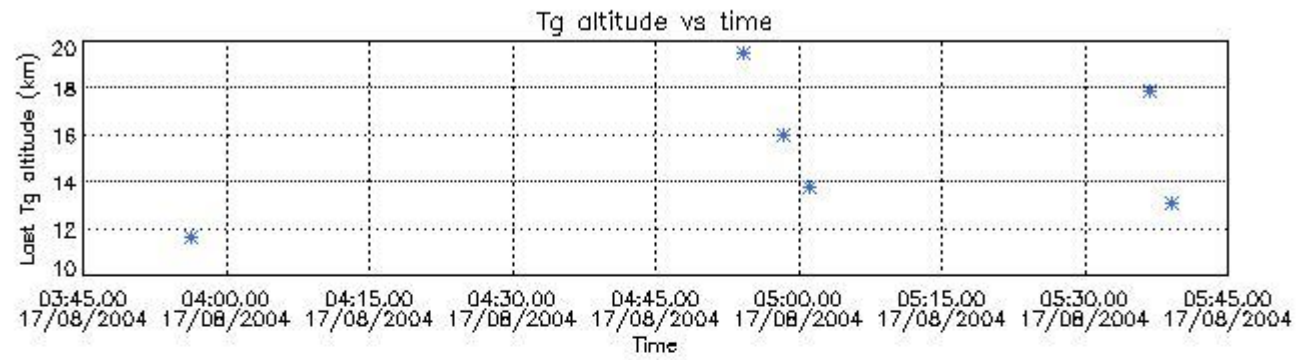
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



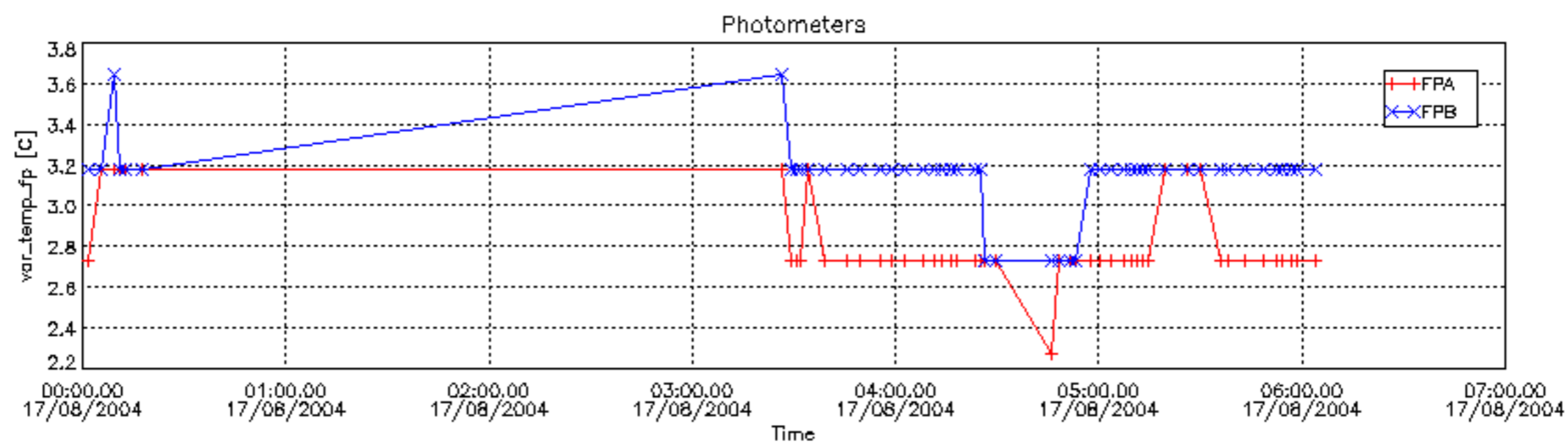
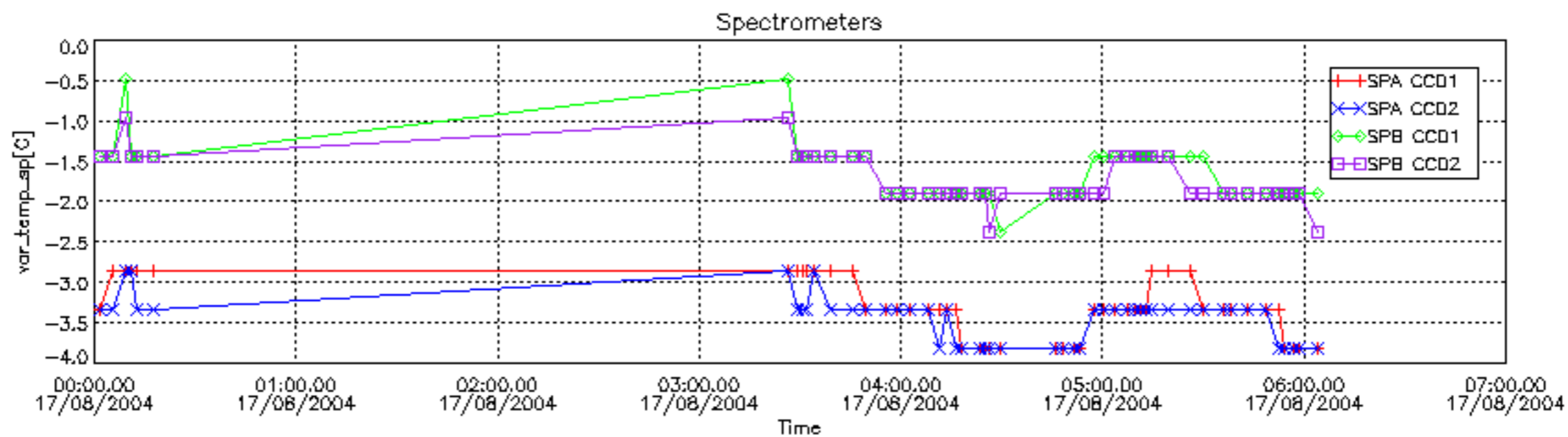
## Tangent altitude at which the star is lost

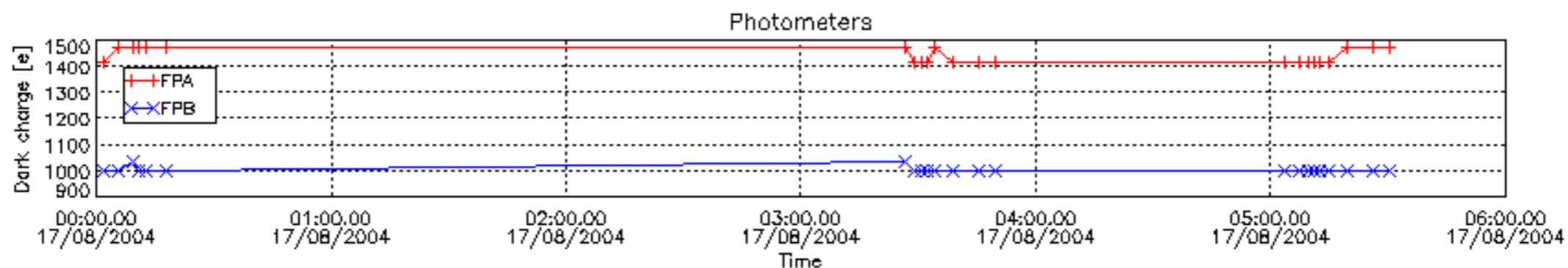
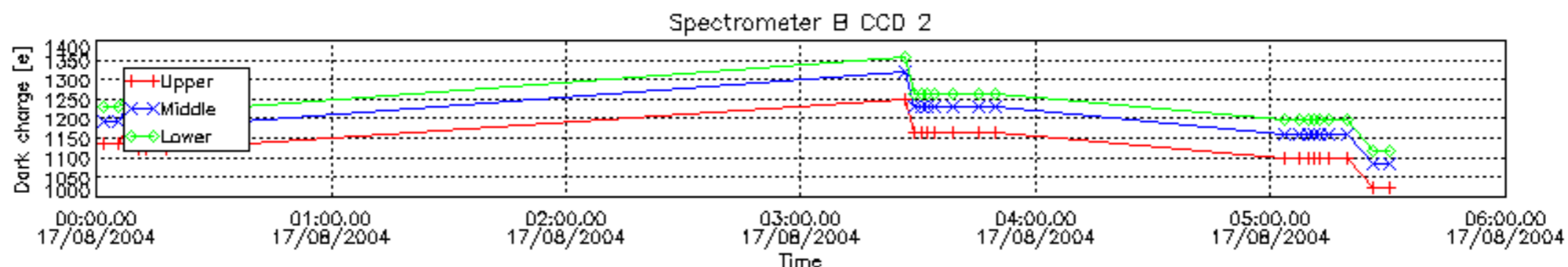
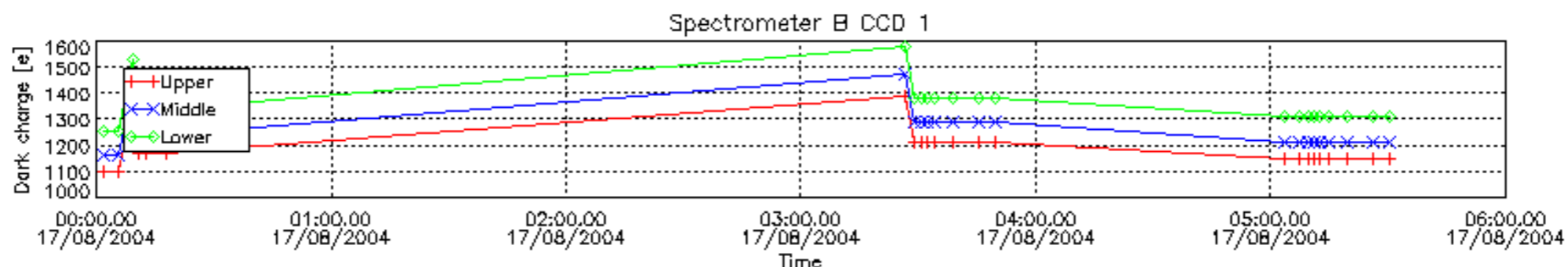
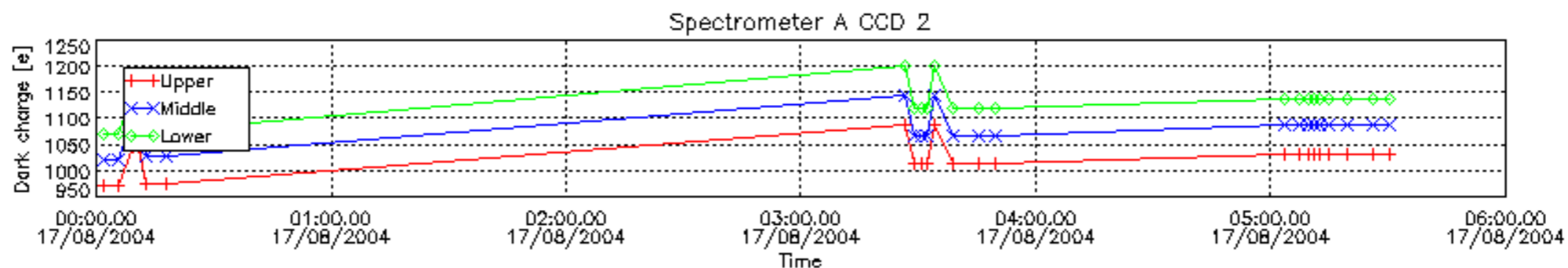
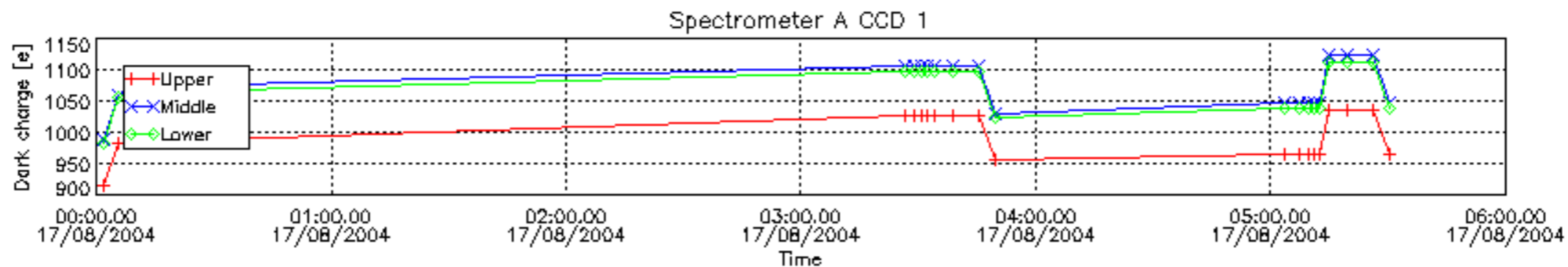


## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1460.3	1447.2	1462.0	1447.7
St. deviation:	4.4172	6.0163	6.9914	8.0347
Maximum:	1498.0	1531.0	1510.0	1503.0
Minimum:	1457.0	1432.0	1445.0	1421.0
Number of data:	27950.	27950.	23700.	23700.

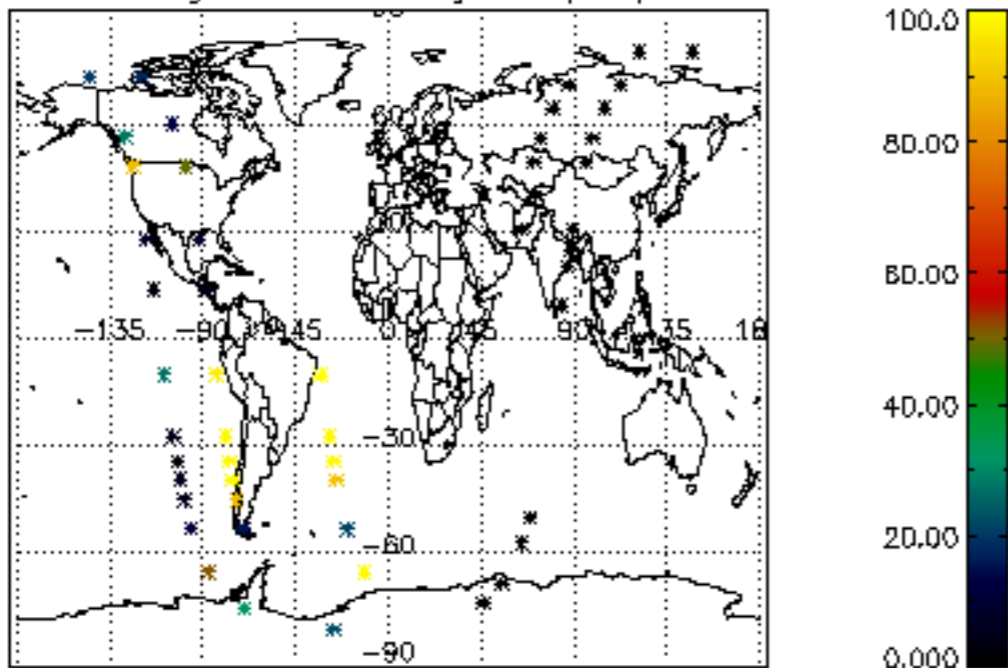




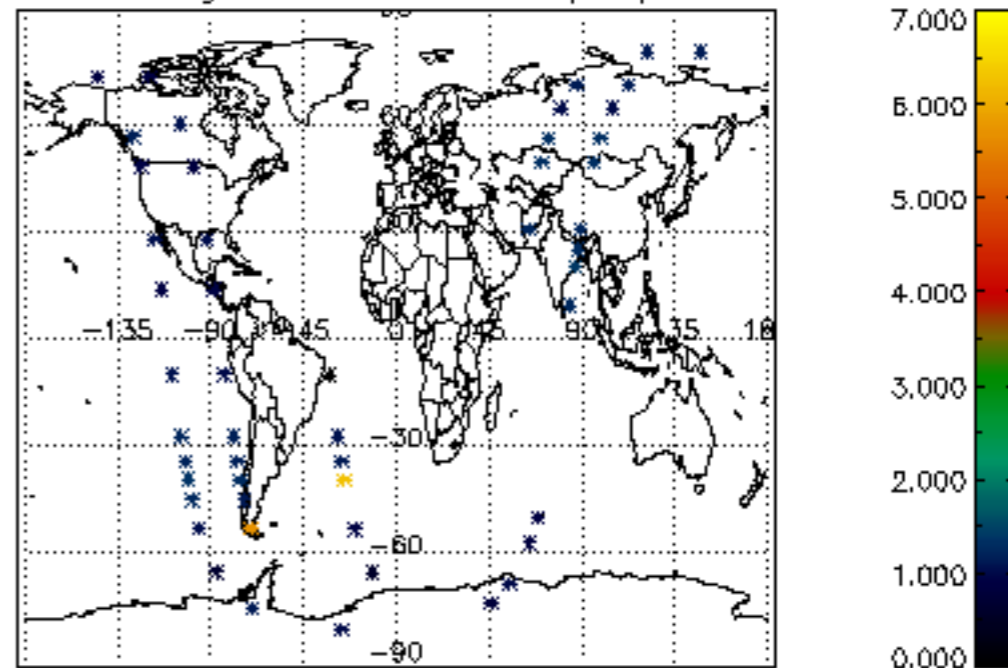




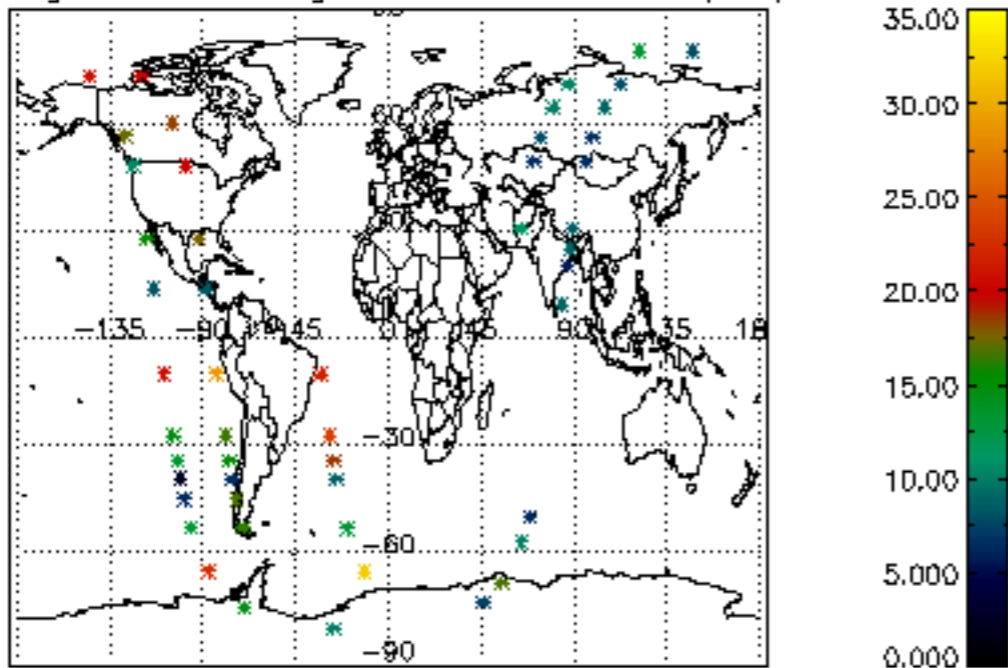
Percentage of cosmic ray hits per profile



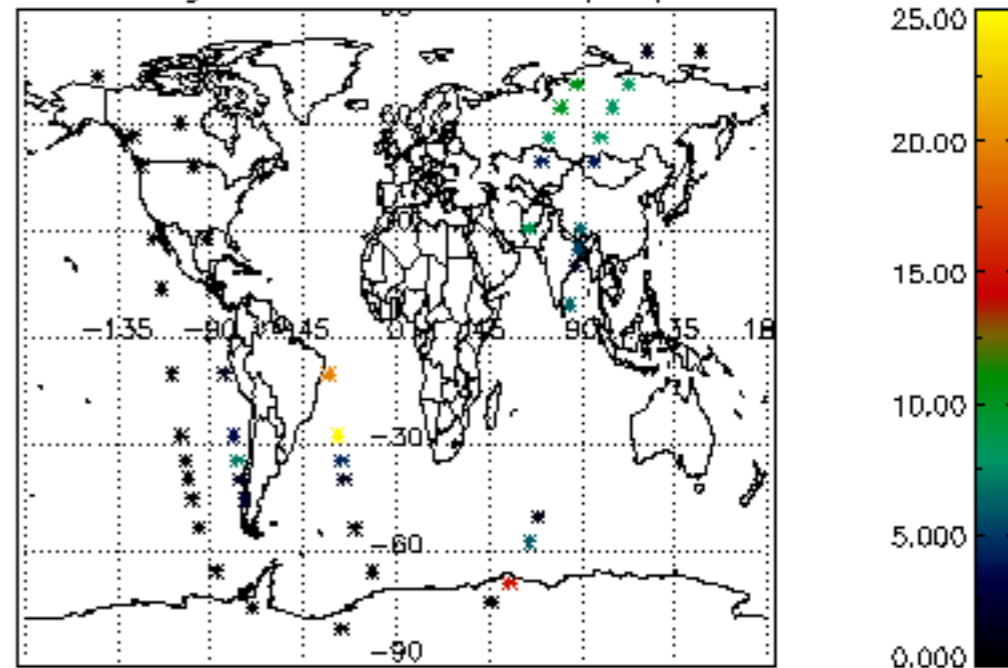
Percentage of datation errors per profile



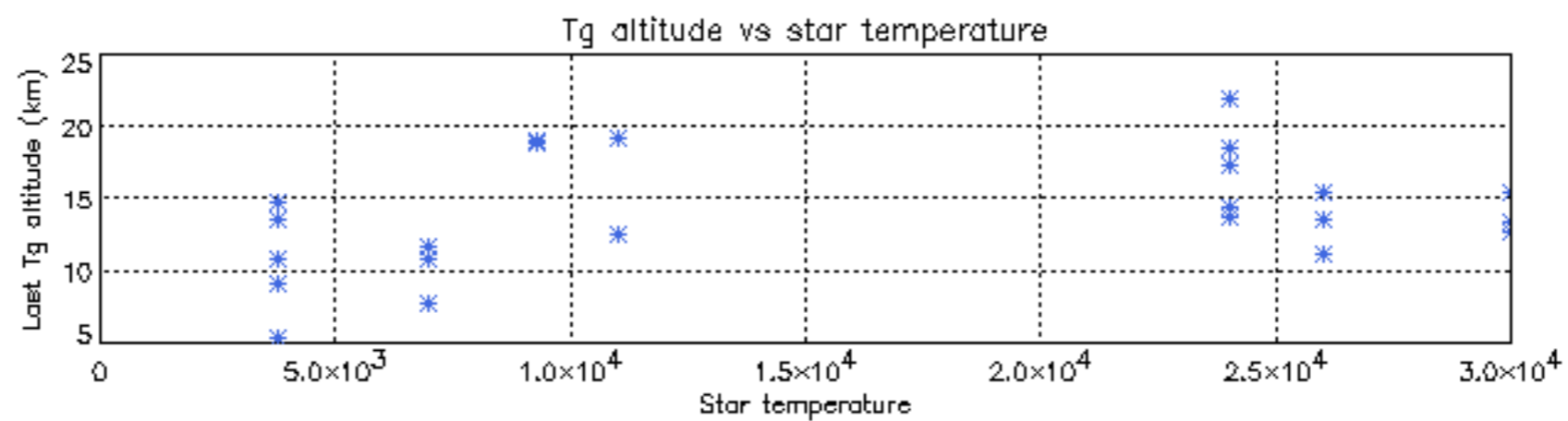
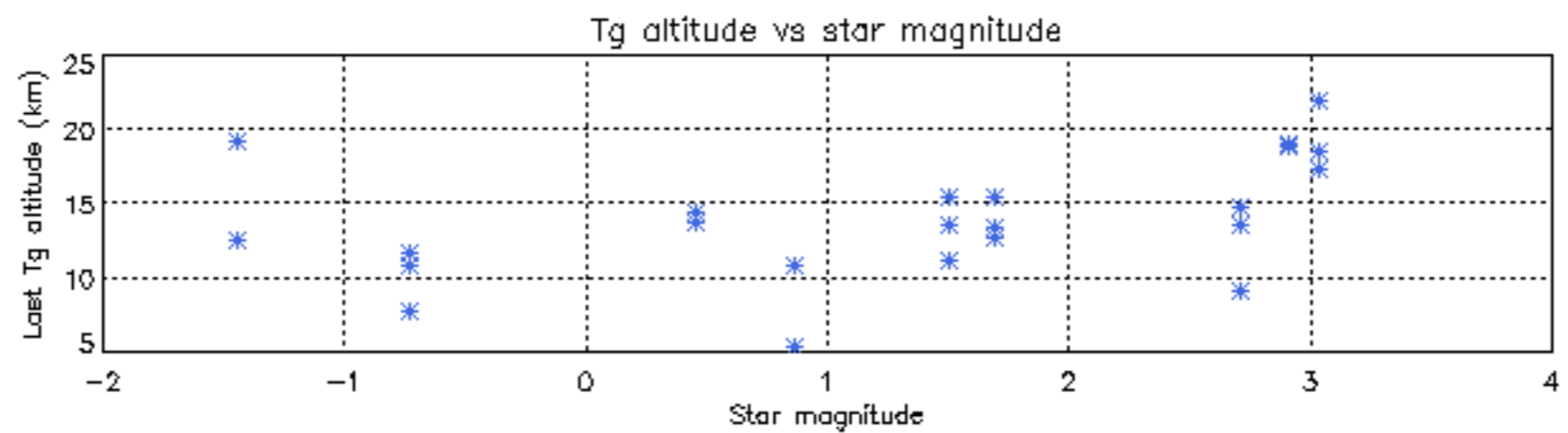
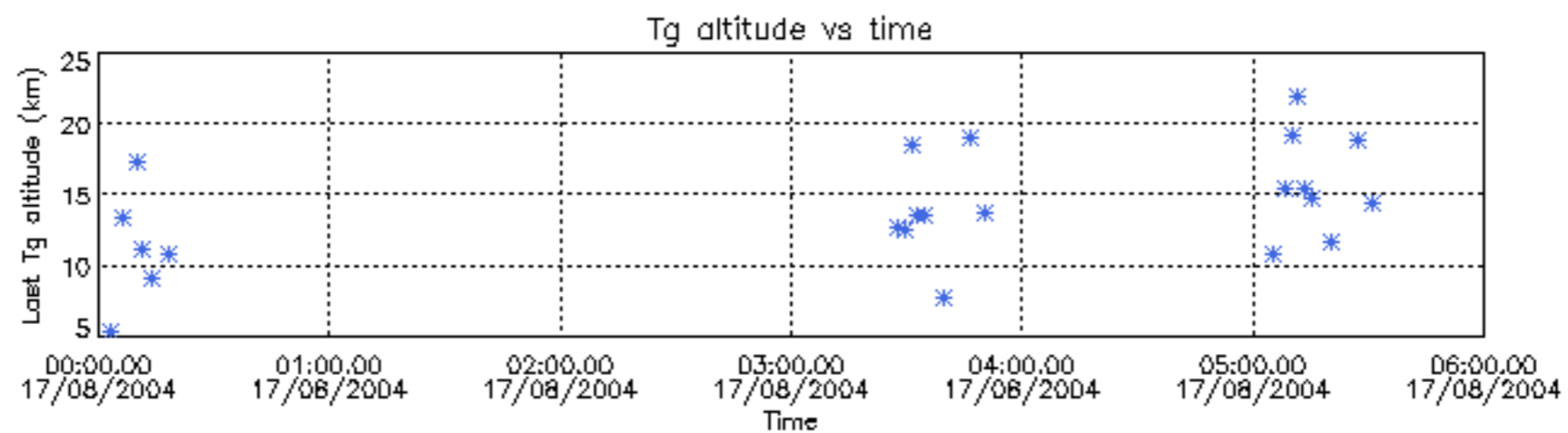
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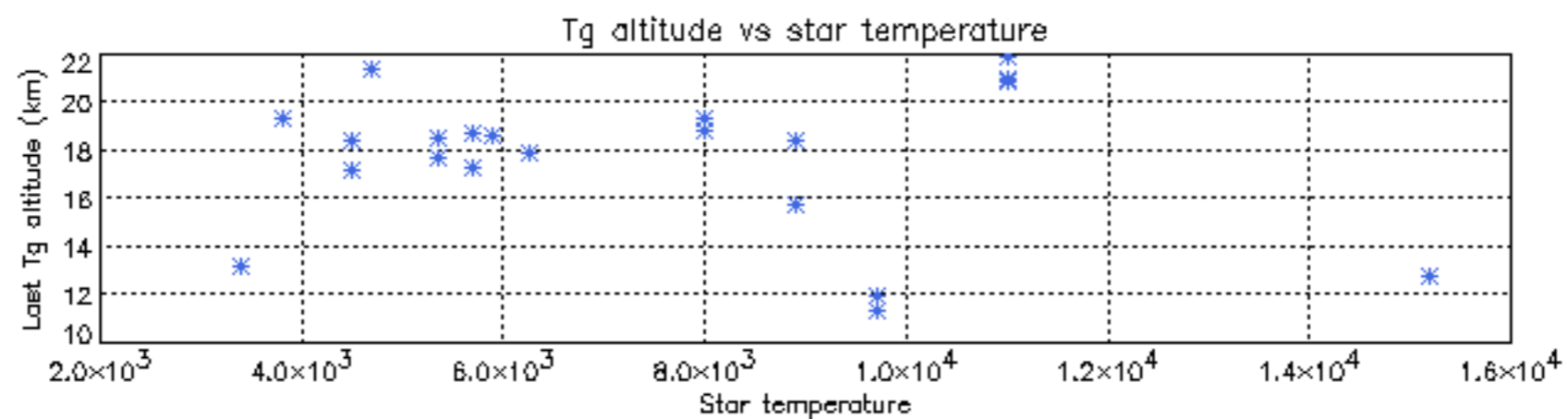
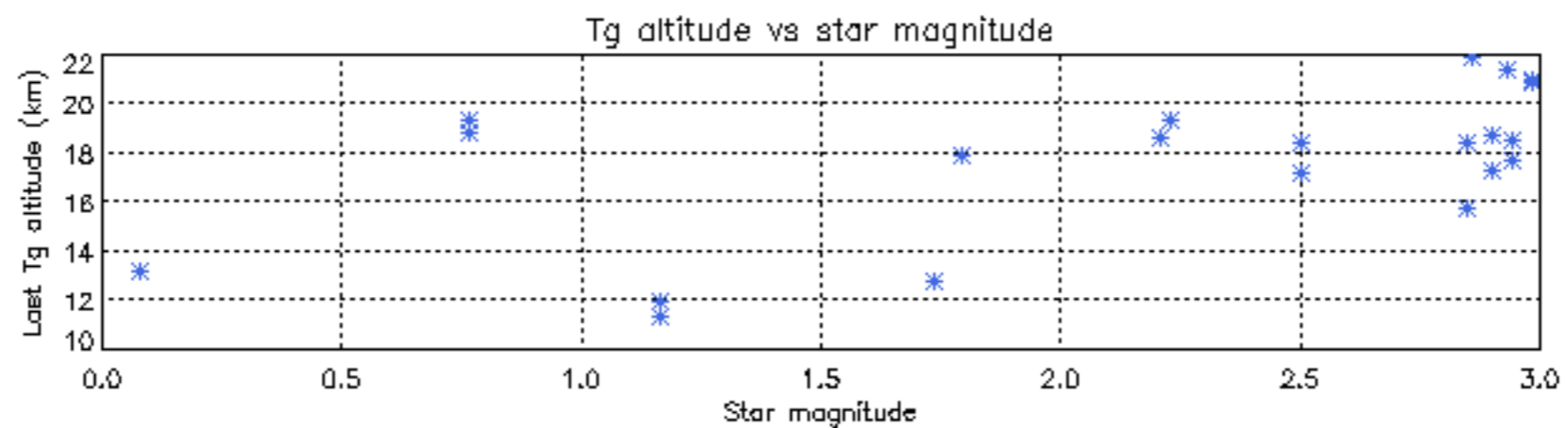
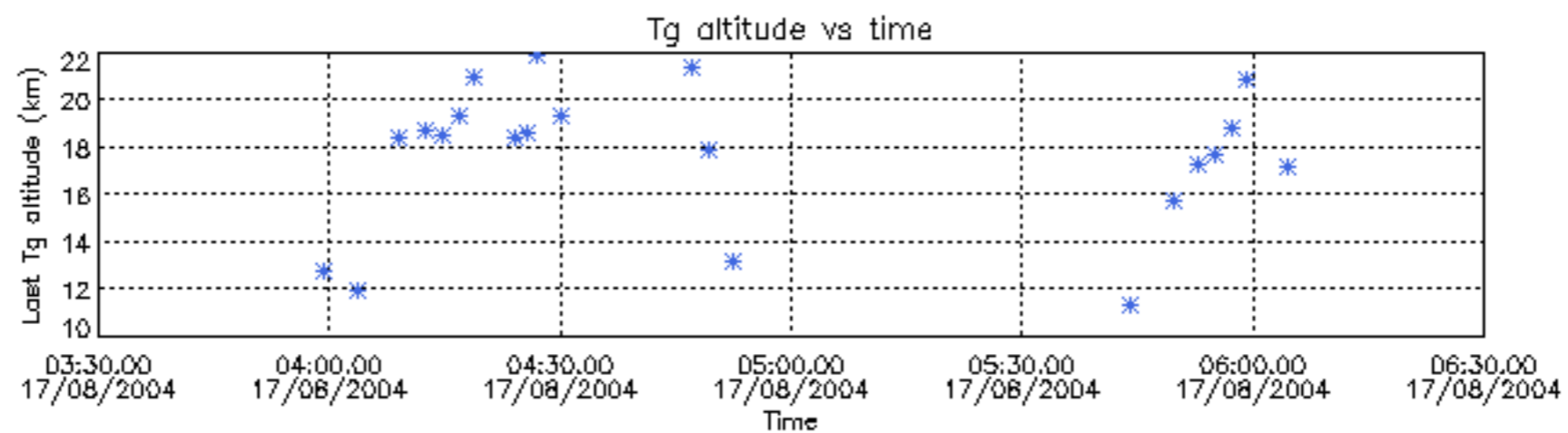
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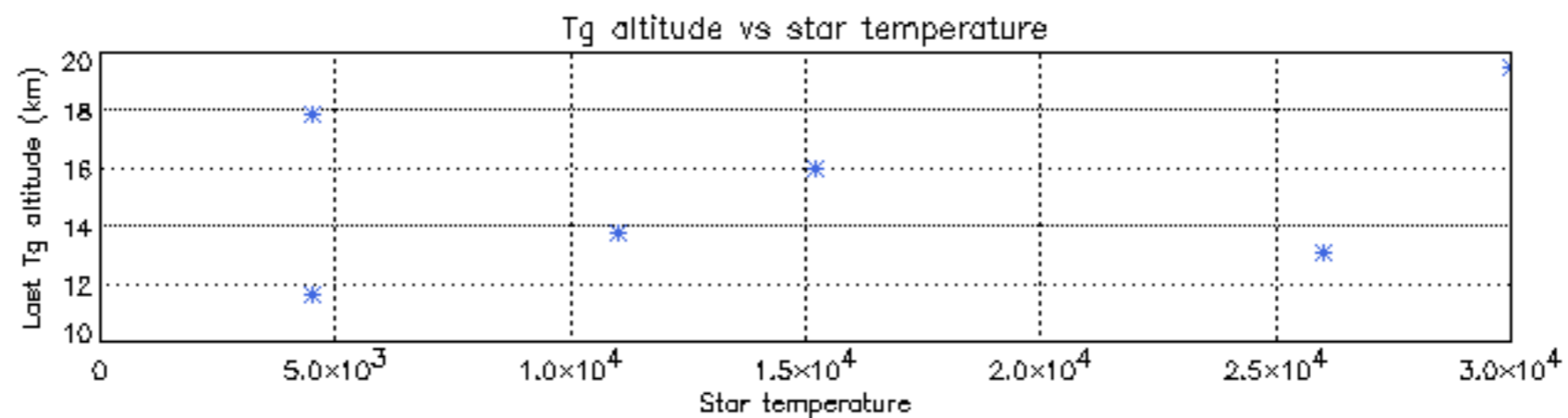
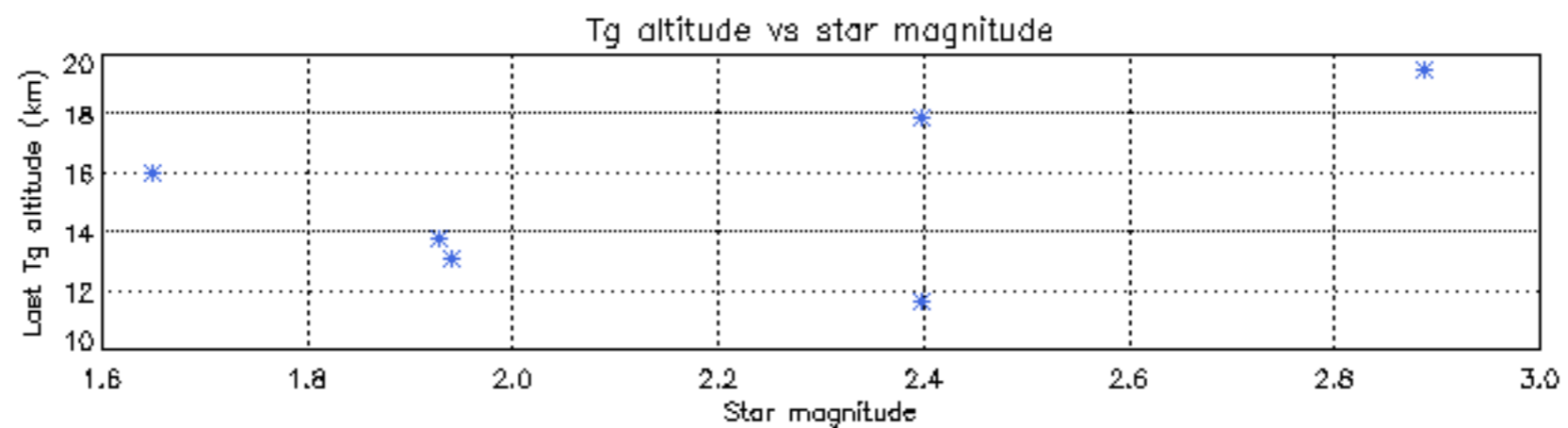
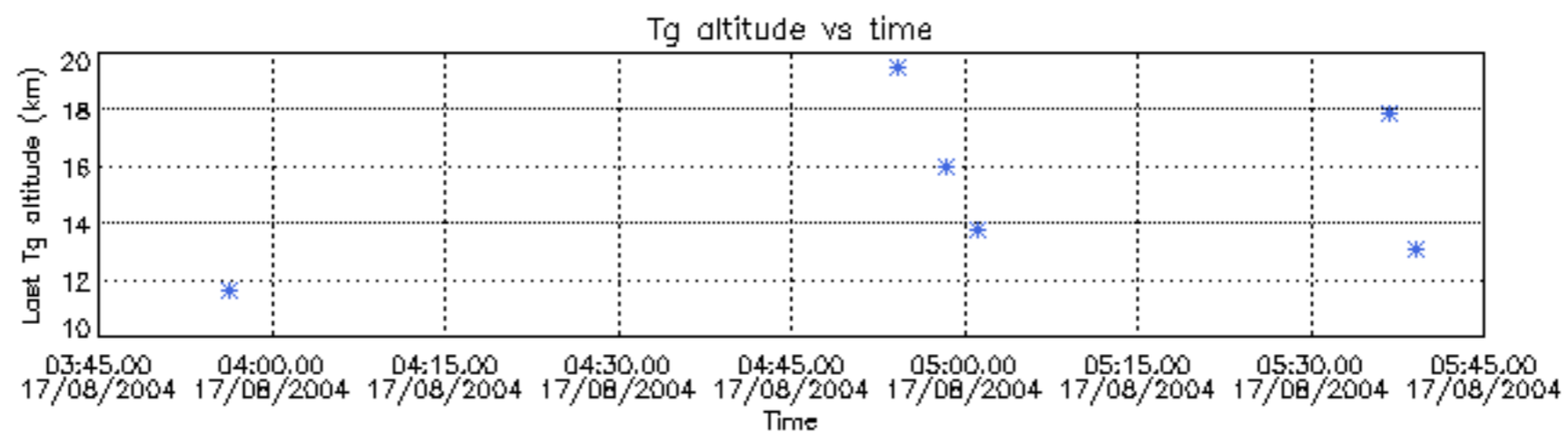
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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9;-2596.5; 02-AUG-2004 09:12:08; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;12672
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13;-1736.6; 02-AUG-2004 09:26:28; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12672
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
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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
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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
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
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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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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  
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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  
 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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25; -206.6; 02-AUG-2004 16:34:22; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;12676
26; 2.1; 02-AUG-2004 16:37:50; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;12677
27; 324.7; 02-AUG-2004 16:43:13; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;12677
28; 430.4; 02-AUG-2004 16:44:59; Dark ; 41.5; 135; Bet Hyi ; 2.82; 5800;occ; 83; 0;12677
29; 620.5; 02-AUG-2004 16:48:09; Dark ; 57.0; 84; Alp Phe ; 2.40; 4500;occ; 114; 0;12677
30; 728.2; 02-AUG-2004 16:49:56; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;12677
31; 931.9; 02-AUG-2004 16:53:20; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;12677
32; 1149.6; 02-AUG-2004 16:56:58; Dark ; 22.0; 18; 24Alp PsA ; 1.17; 9700;occ; 44; 0;12677
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 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;-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