

# GOMOS Daily Report 03-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	05AUG2004 05:01:31
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (03AUG2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (04AUG2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	1

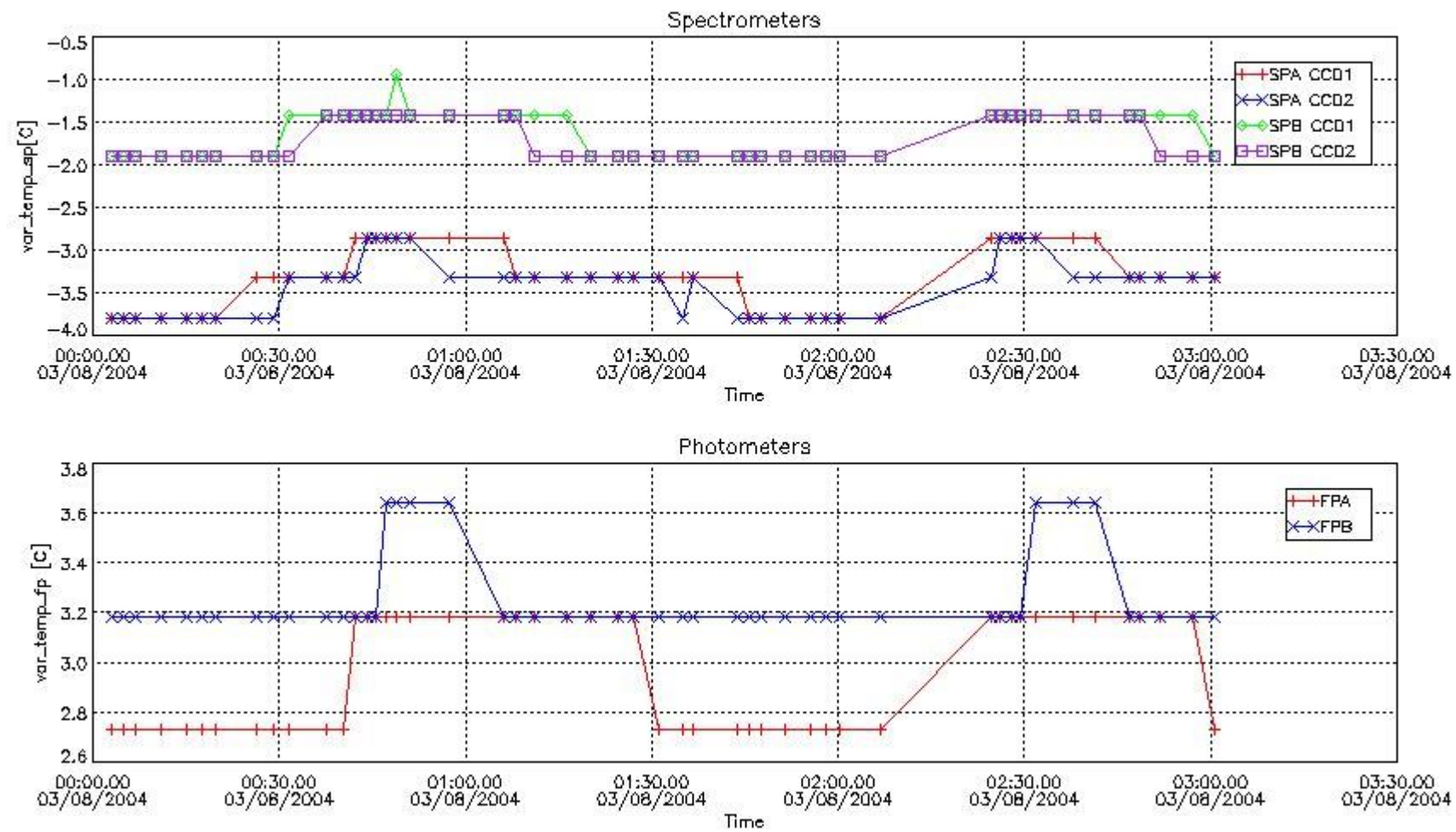
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20040803_000300_000000522029_00102_12681_0014.N1	03-AUG-2004 00:03:00	Bright	52.000	5	3Alp Lyr	0.033000	11000.	104	12681	No
GOM_TRA_1PNPDE20040803_000458_000000392029_00102_12681_0015.N1	03-AUG-2004 00:04:58	Bright	38.500	144	18Del Cyg	2.8600	11000.	77	12681	No
GOM_TRA_1PNPDE20040803_000652_000000422029_00102_12681_0016.N1	03-AUG-2004 00:06:52	Bright	41.500	69	33Gam Dra	2.2310	3800.0	83	12681	No
GOM_TRA_1PNPDE20040803_001057_000000402029_00102_12681_0017.N1	03-AUG-2004 00:10:57	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	12681	No
GOM_TRA_1PNPDE20040803_001504_000000362029_00102_12681_0018.N1	03-AUG-2004 00:15:04	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	12681	No
GOM_TRA_1PNPDE20040803_001730_000000362029_00102_12681_0019.N1	03-AUG-2004 00:17:30	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	12681	No
GOM_TRA_1PNPDE20040803_001945_000000512029_00102_12681_0020.N1	03-AUG-2004 00:19:45	Bright	50.500	76	27Gam Cas	2.3000	30000.	101	12681	No
GOM_TRA_1PNPDE20040803_002617_000000502029_00102_12681_0021.N1	03-AUG-2004 00:26:17	Bright	50.000	160	23Gam Per	2.9300	4700.0	100	12681	No
GOM_TRA_1PNPDE20040803_002907_000000862029_00102_12681_0022.N1	03-AUG-2004 00:29:07	Bright	85.500	73	57Gam1And	2.2600	13100.	171	12681	No
GOM_TRA_1PNPDE20040803_003141_000002552029_00102_12681_0023.N1	03-AUG-2004 00:31:41	Twilight	255.00	53	43Bet And	2.0480	3300.0	510	12681	No
GOM_TRA_1PNPDE20040803_003737_000000442029_00102_12681_0024.N1	03-AUG-2004 00:37:37	Twilight	43.500	176	23Zet Tau	3.0200	22000.	87	12681	No
GOM_TRA_1PNPDE20040803_004013_000000652029_00102_12681_0025.N1	03-AUG-2004 00:40:13	Twilight	64.500	13	87Alp Tau	0.86700	3800.0	129	12681	No
GOM_TRA_1PNPDE20040803_004209_000000502029_00102_12681_0026.N1	03-AUG-2004 00:42:09	Twilight	50.000	27	24Gam Ori	1.6360	26000.	100	12681	No
GOM_TRA_1PNPDE20040803_004406_000000452029_00102_12681_0027.N1	03-AUG-2004 00:44:06	Dark	45.000	30	46Eps Ori	1.6940	30000.	90	12681	No
GOM_TRA_1PNPDE20040803_004526_000000432029_00102_12681_0028.N1	03-AUG-2004 00:45:26	Dark	42.500	125	44Iot Ori	2.7700	30000.	85	12681	No
GOM_TRA_1PNPDE20040803_004717_000000432029_00102_12681_0000.N1	03-AUG-2004 00:47:17	Dark	43.000	1	9Alp CMa	-1.4400	11000.	86	12681	Yes
GOM_TRA_1PNPDE20040803_004844_000000432029_00102_12681_0001.N1	03-AUG-2004 00:48:44	Dark	43.000	101	11Alp Lep	2.5820	7000.0	86	12681	No
GOM_TRA_1PNPDE20040803_005110_000000412029_00102_12681_0002.N1	03-AUG-2004 00:51:10	Dark	40.500	177	1Zet CMa	3.0220	26000.	81	12681	No
GOM_TRA_1PNPDE20040803_005721_000000512029_00102_12681_0003.N1	03-AUG-2004 00:57:21	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	12681	No
GOM_TRA_1PNPDE20040803_010615_000000552029_00103_12682_0004.N1	03-AUG-2004 01:06:15	Dark	54.500	9	Alp Eri	0.45300	24000.	109	12682	No
GOM_TRA_1PNPDE20040803_010759_000000402029_00103_12682_0005.N1	03-AUG-2004 01:07:59	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	12682	No
GOM_TRA_1PNPDE20040803_011111_000000732029_00103_12682_0006.N1	03-AUG-2004 01:11:11	Dark	73.000	84	Alp Phe	2.3970	4500.0	146	12682	No
GOM_TRA_1PNPDE20040803_011621_000000502029_00103_12682_0007.N1	03-AUG-2004 01:16:21	Bright	49.500	31	Alp Gru	1.7340	15200.	99	12682	No
GOM_TRA_1PNPDE20040803_012001_000000702029_00103_12682_0008.N1	03-AUG-2004 01:20:01	Bright	70.000	18	24Alp PsA	1.1660	9700.0	140	12682	No
GOM_TRA_1PNPDE20040803_012425_000000512029_00103_12682_0009.N1	03-AUG-2004 01:24:25	Bright	50.500	103	38Zet Sgr	2.6000	9700.0	101	12682	No
GOM_TRA_1PNPDE20040803_012658_000000532029_00103_12682_0010.N1	03-AUG-2004 01:26:58	Bright	53.000	142	49Del Cap	2.8500	8900.0	106	12682	No
GOM_TRA_1PNPDE20040803_013103_000000532029_00103_12682_0011.N1	03-AUG-2004 01:31:03	Bright	53.000	154	22Bet Aqr	2.8990	5700.0	106	12682	No
GOM_TRA_1PNPDE20040803_013503_000000402029_00103_12682_0012.N1	03-AUG-2004 01:35:03	Bright	40.000	11	53Alp Aql	0.76500	8000.0	80	12682	No
GOM_TRA_1PNPDE20040803_013630_000000402029_00103_12682_0013.N1	03-AUG-2004 01:36:30	Bright	40.000	168	17Zet Aql	2.9860	11000.	80	12682	No
GOM_TRA_1PNPDE20040803_014338_000000372029_00103_12682_0014.N1	03-AUG-2004 01:43:38	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	12682	No
GOM_TRA_1PNPDE20040803_014534_000000402029_00103_12682_0015.N1	03-AUG-2004 01:45:34	Bright	39.500	144	18Del Cyg	2.8600	11000.	79	12682	No
GOM_TRA_1PNPDE20040803_014728_000000412029_00103_12682_0016.N1	03-AUG-2004 01:47:28	Bright	41.000	69	33Gam Dra	2.2310	3800.0	82	12682	No
GOM_TRA_1PNPDE20040803_015134_000000402029_00103_12682_0017.N1	03-AUG-2004 01:51:34	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	12682	No
GOM_TRA_1PNPDE20040803_015539_000000382029_00103_12682_0018.N1	03-AUG-2004 01:55:39	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	12682	No
GOM_TRA_1PNPDE20040803_015806_000000372029_00103_12682_0019.N1	03-AUG-2004 01:58:06	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	12682	No
GOM_TRA_1PNPDE20040803_020021_000000512029_00103_12682_0020.N1	03-AUG-2004 02:00:21	Bright	50.500	76	27Gam Cas	2.3000	30000.	101	12682	No
GOM_TRA_1PNPDE20040803_020654_000000502029_00103_12682_0021.N1	03-AUG-2004 02:06:54	Bright	49.500	160	23Gam Per	2.9300	4700.0	99	12682	No
GOM_TRA_1PNPDE20040803_022442_000000442029_00103_12682_0000.N1	03-AUG-2004 02:24:42	Dark	44.000	30	46Eps Ori	1.6940	30000.	88	12682	No
GOM_TRA_1PNPDE20040803_022603_000000422029_00103_12682_0001.N1	03-AUG-2004 02:26:03	Dark	41.500	125	44Iot Ori	2.7700	30000.	83	12682	No
GOM_TRA_1PNPDE20040803_022754_000000372029_00103_12682_0002.N1	03-AUG-2004 02:27:54	Dark	36.500	1	9Alp CMa	-1.4400	11000.	73	12682	No
GOM_TRA_1PNPDE20040803_022920_000000462029_00103_12682_0003.N1	03-AUG-2004 02:29:20	Dark	46.000	101	11Alp Lep	2.5820	7000.0	92	12682	No
GOM_TRA_1PNPDE20040803_023146_000000432029_00103_12682_0004.N1	03-AUG-2004 02:31:46	Dark	43.000	177	1Zet CMa	3.0220	26000.	86	12682	No
GOM_TRA_1PNPDE20040803_023758_000000472029_00103_12682_0005.N1	03-AUG-2004 02:37:58	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	12682	No
GOM_TRA_1PNPDE20040803_024131_000000512029_00104_12683_0006.N1	03-AUG-2004 02:41:31	Dark	50.500	157	The1Eri	2.9060	9300.0	101	12683	No
GOM_TRA_1PNPDE20040803_024651_000000512029_00104_12683_0007.N1	03-AUG-2004 02:46:51	Dark	51.000	9	Alp Eri	0.45300	24000.	102	12683	No
GOM_TRA_1PNPDE20040803_024834_000000422029_00104_12683_0008.N1	03-AUG-2004 02:48:34	Dark	41.500	135	Bet Hyi	2.8200	5800.0	83	12683	No
GOM_TRA_1PNPDE20040803_025150_000000702029_00104_12683_0009.N1	03-AUG-2004 02:51:50	Dark	69.500	84	Alp Phe	2.3970	4500.0	139	12683	No
GOM_TRA_1PNPDE20040803_025657_000000482029_00104_12683_0010.N1	03-AUG-2004 02:56:57	Bright	47.500	31	Alp Gru	1.7340	15200.	95	12683	No
GOM_TRA_1PNPDE20040803_030037_000000692029_00104_12683_0011.N1	03-AUG-2004 03:00:37	Bright	69.000	18	24Alp PsA	1.1660	9700.0	138	12683	No

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



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

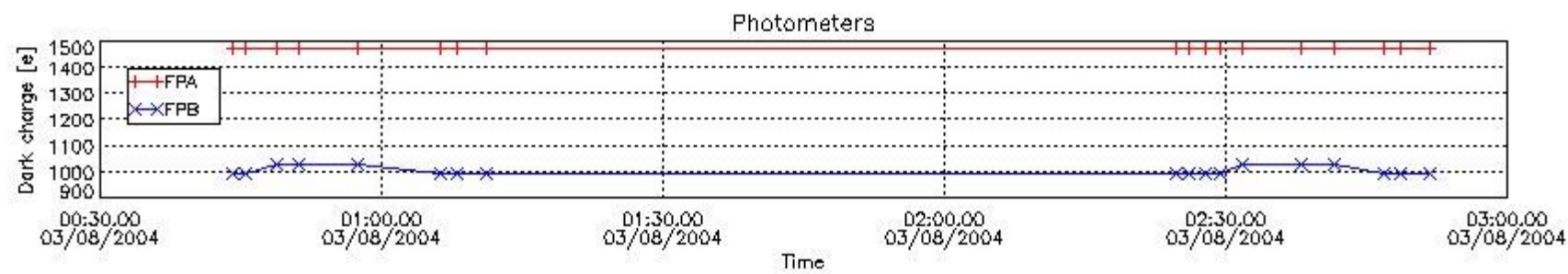
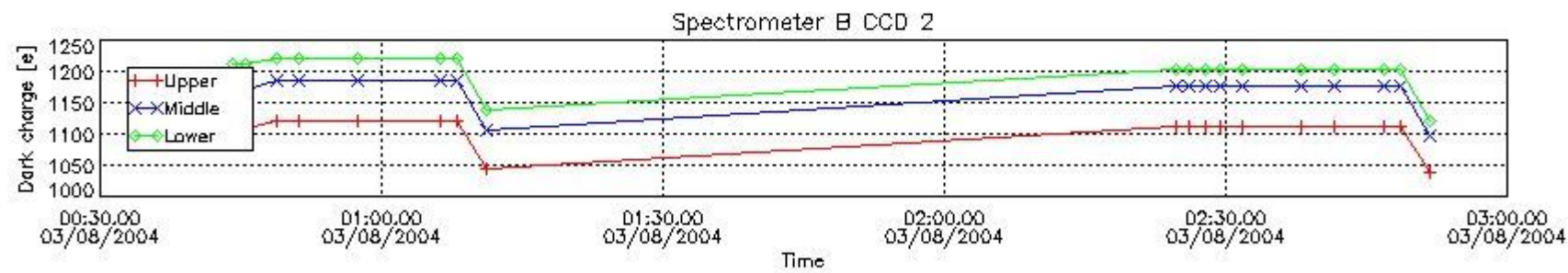
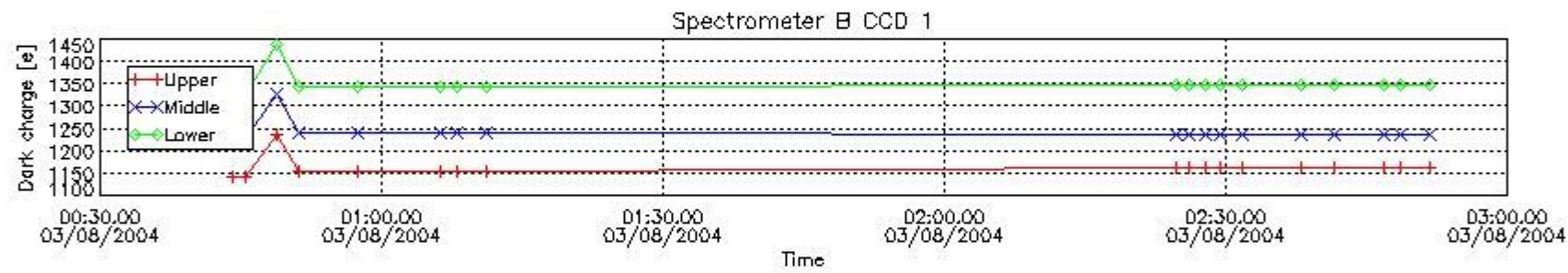
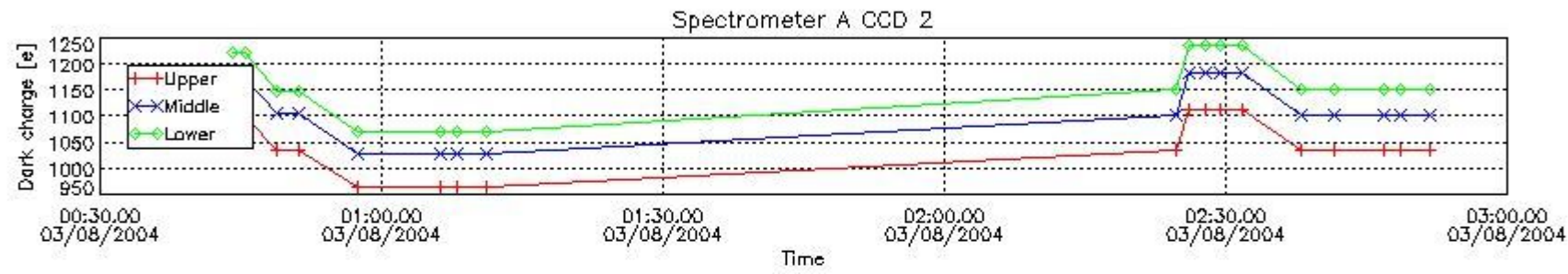
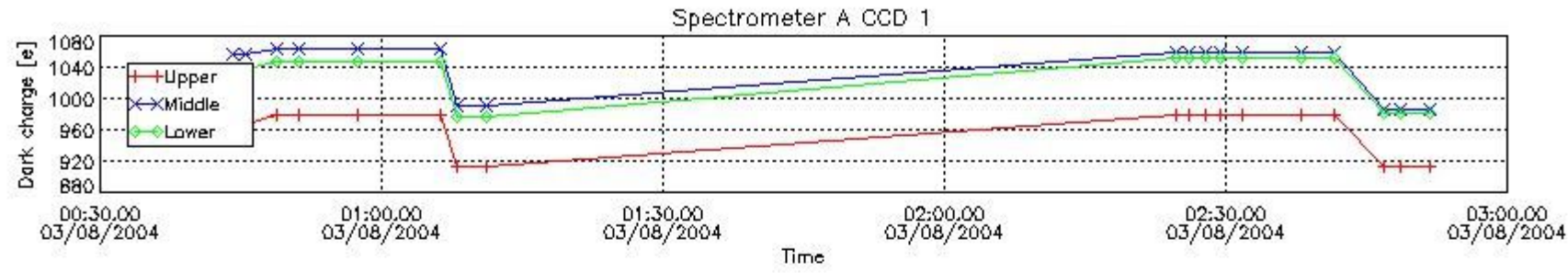
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





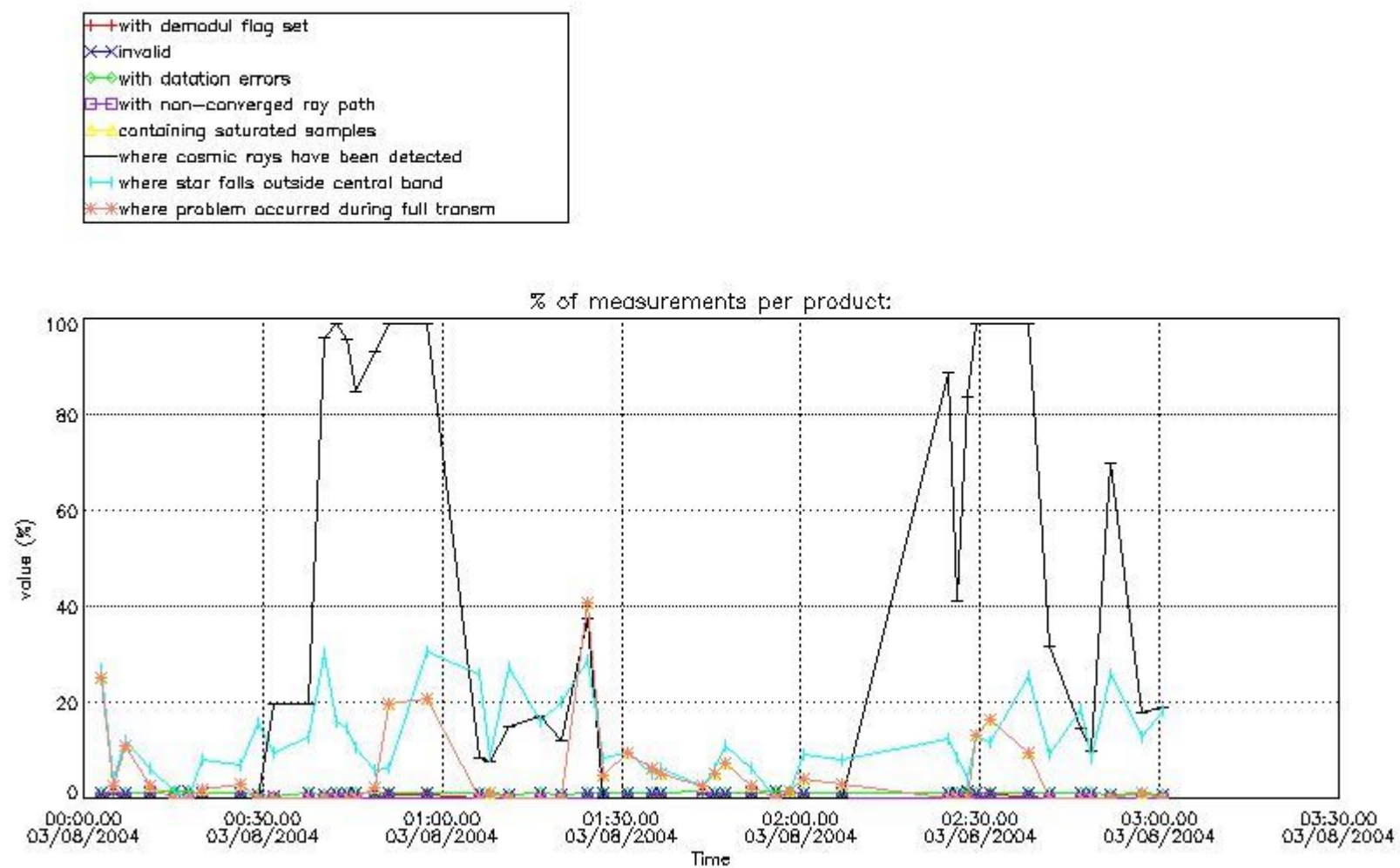
## 5. Demodulation flag and quality information monitoring

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:

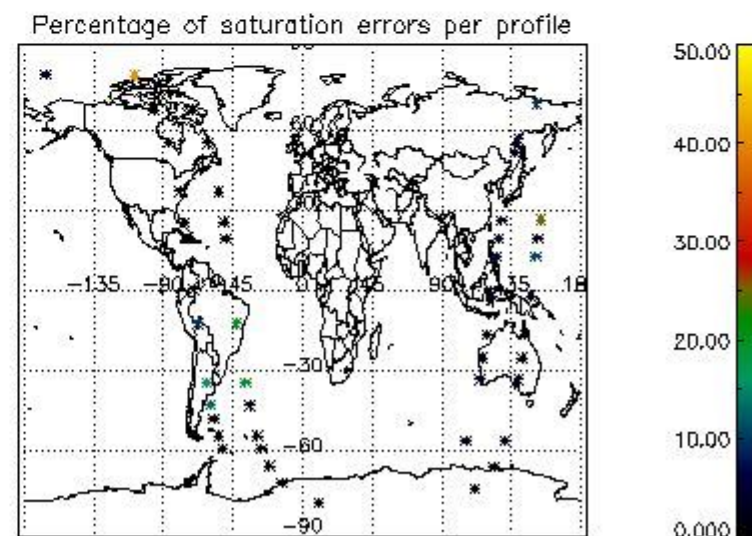
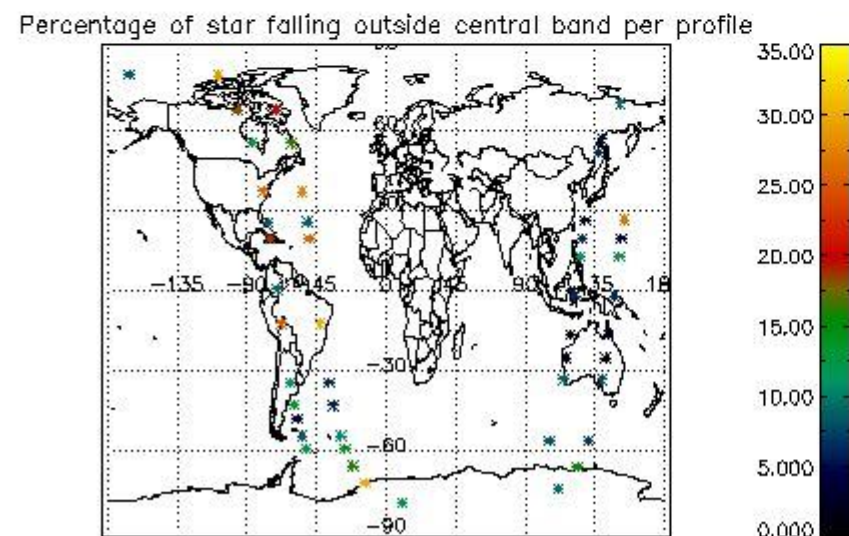
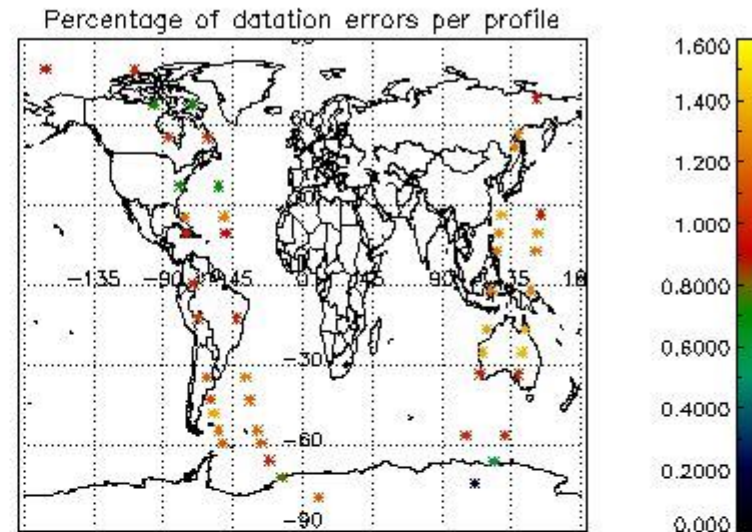
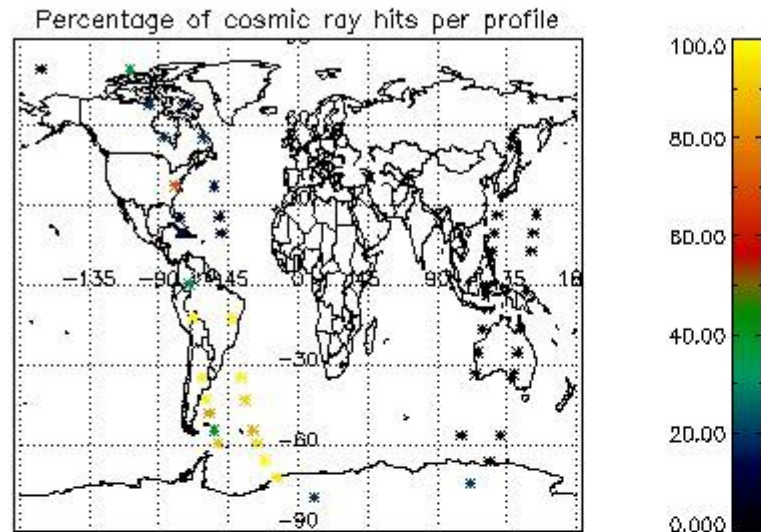
At least one measurement with demodulation flag set:	29.1667 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





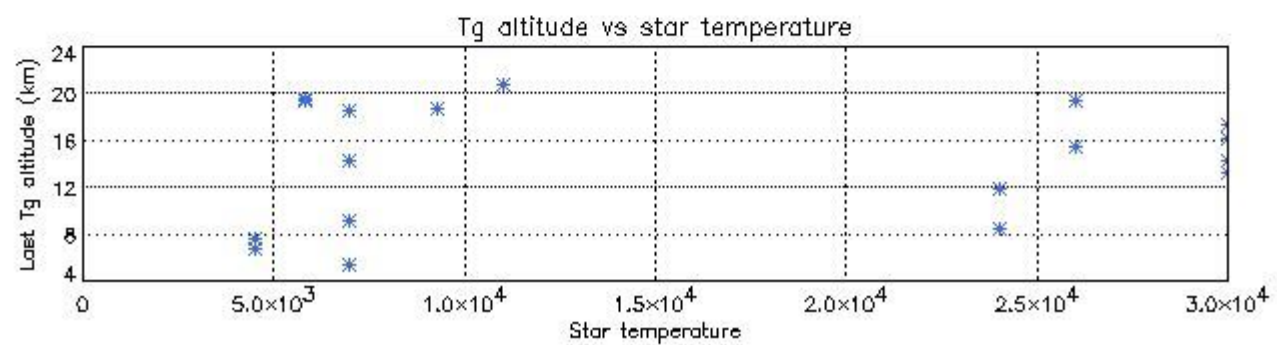
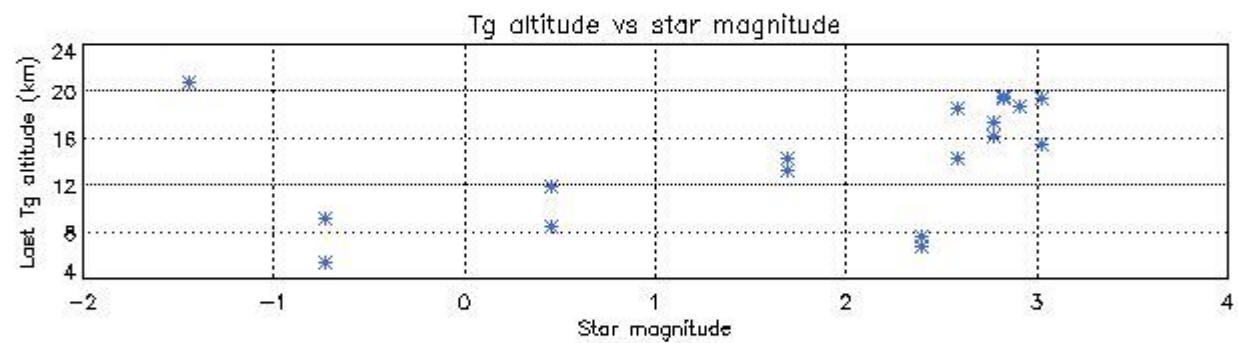
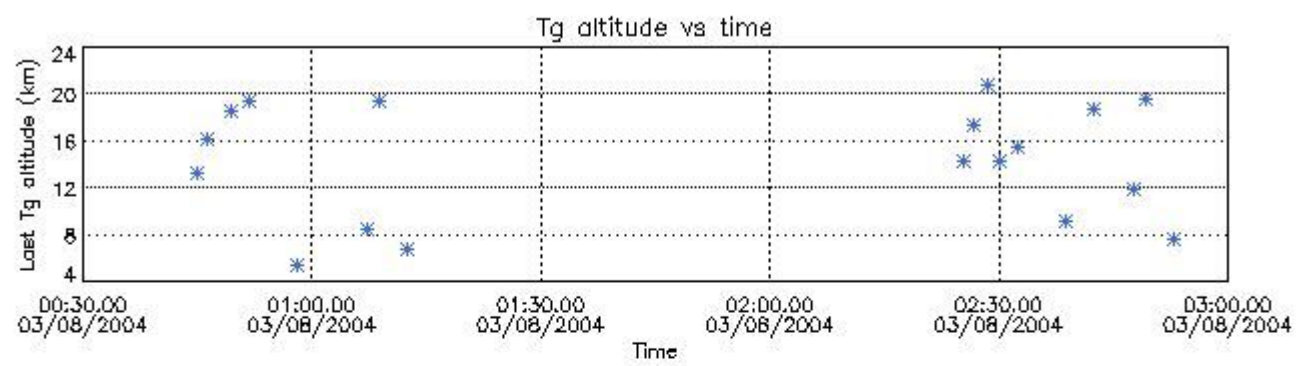
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.225	18.876	12.889
St. deviation:	4.9928	5.7866	5.1662
Maximum:	20.833	28.488	18.499
Minimum:	5.3284	6.0745	6.2175
Number of data:	18.000	26.000	4.0000

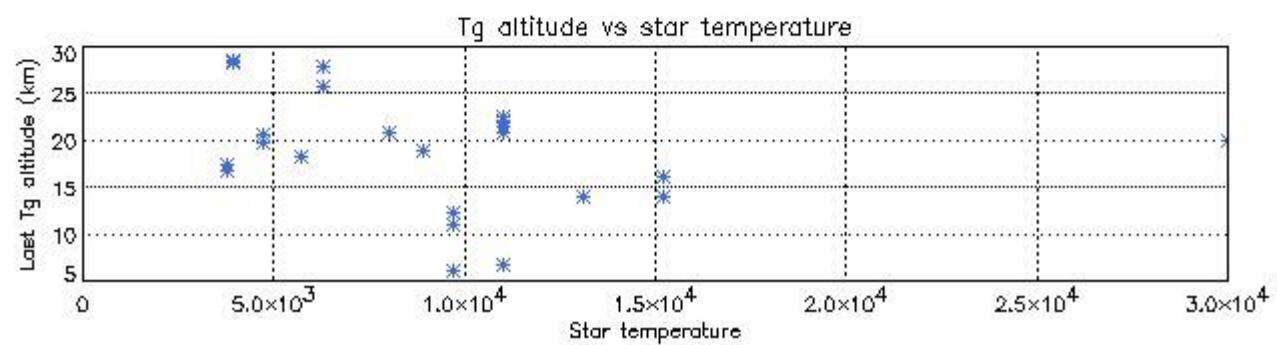
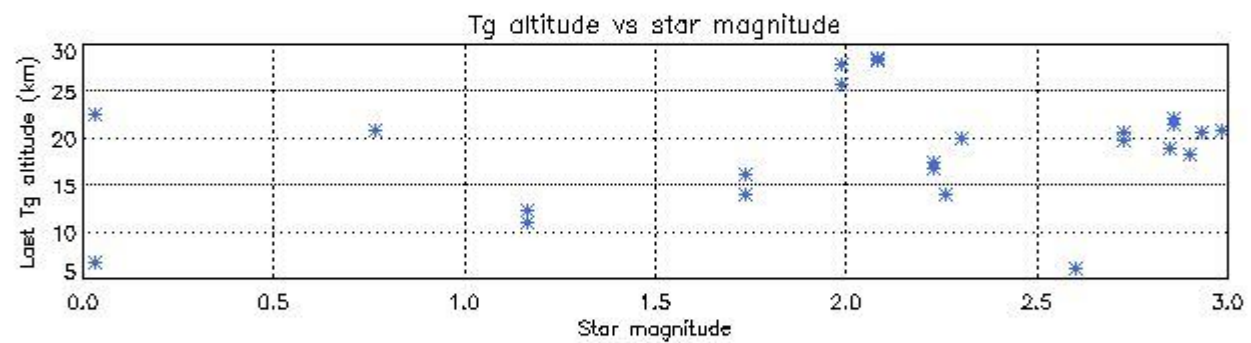
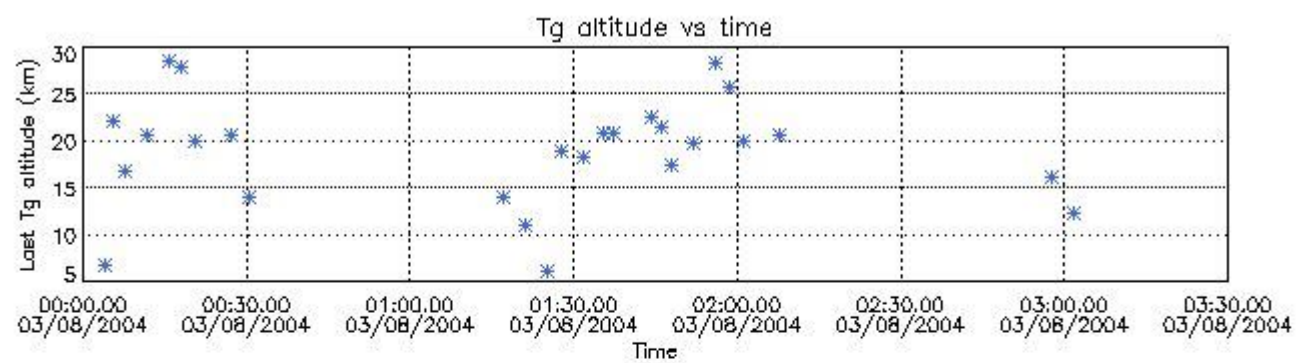
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

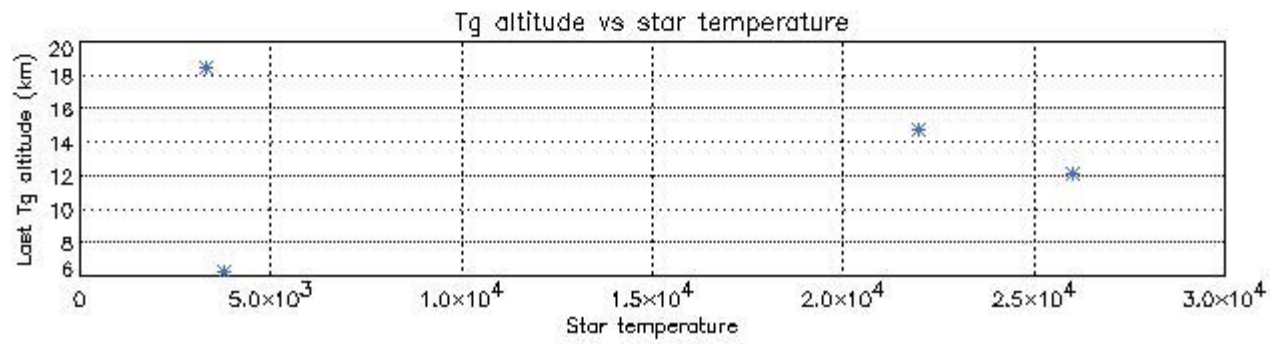
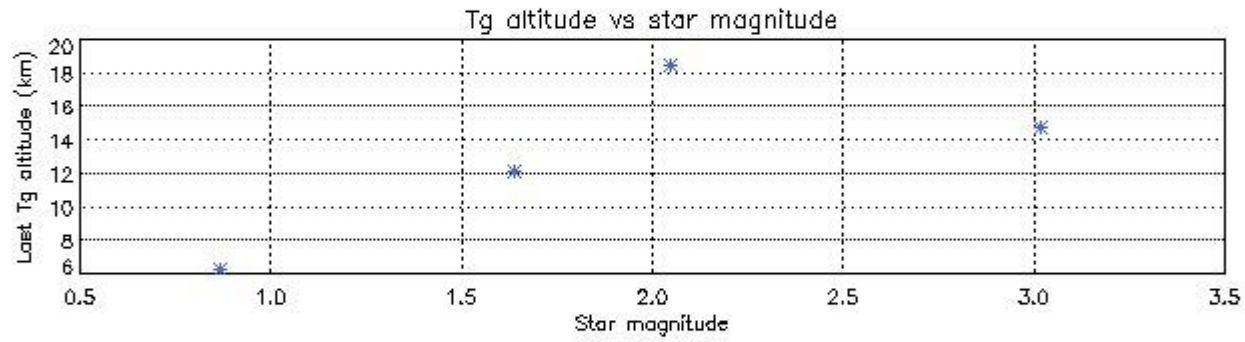
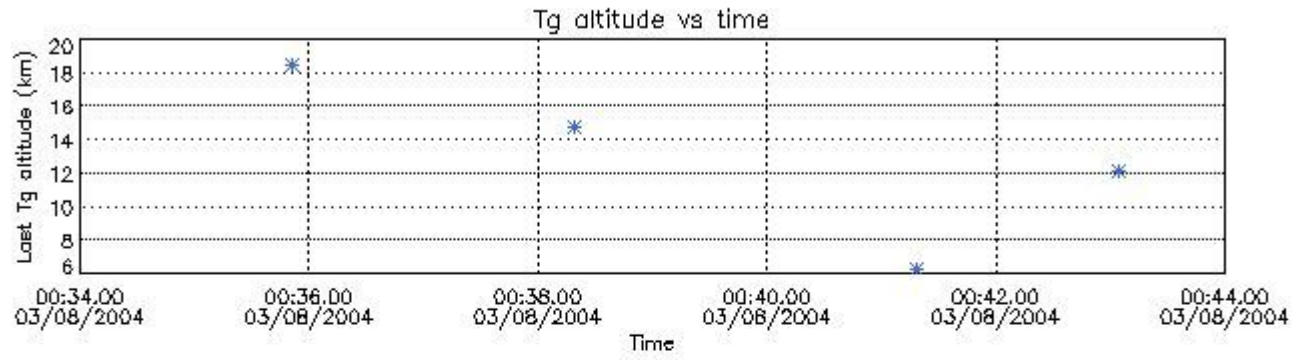
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



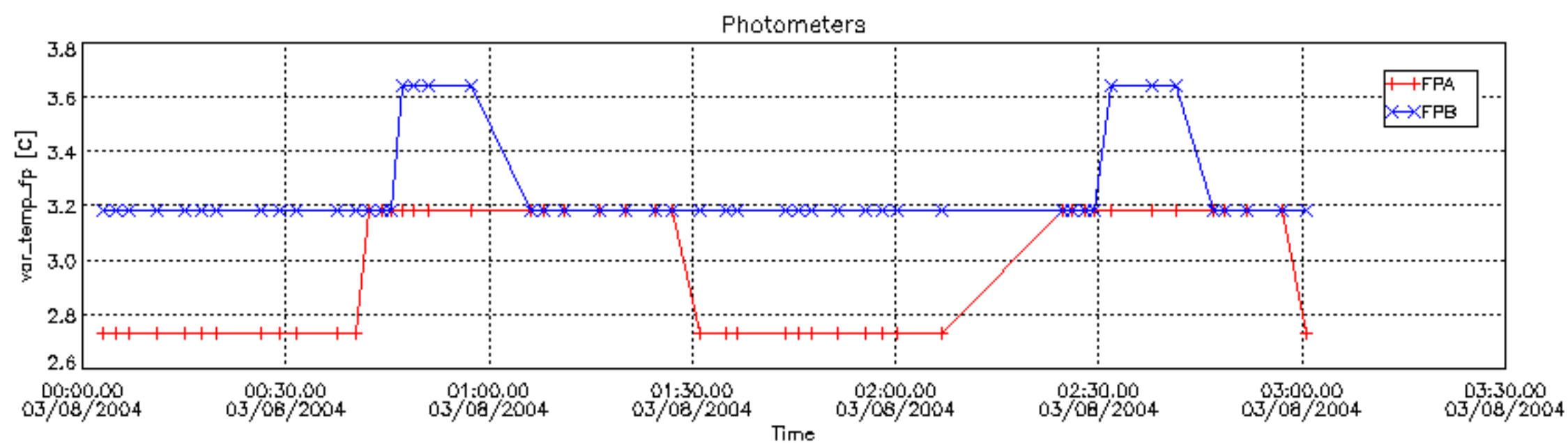
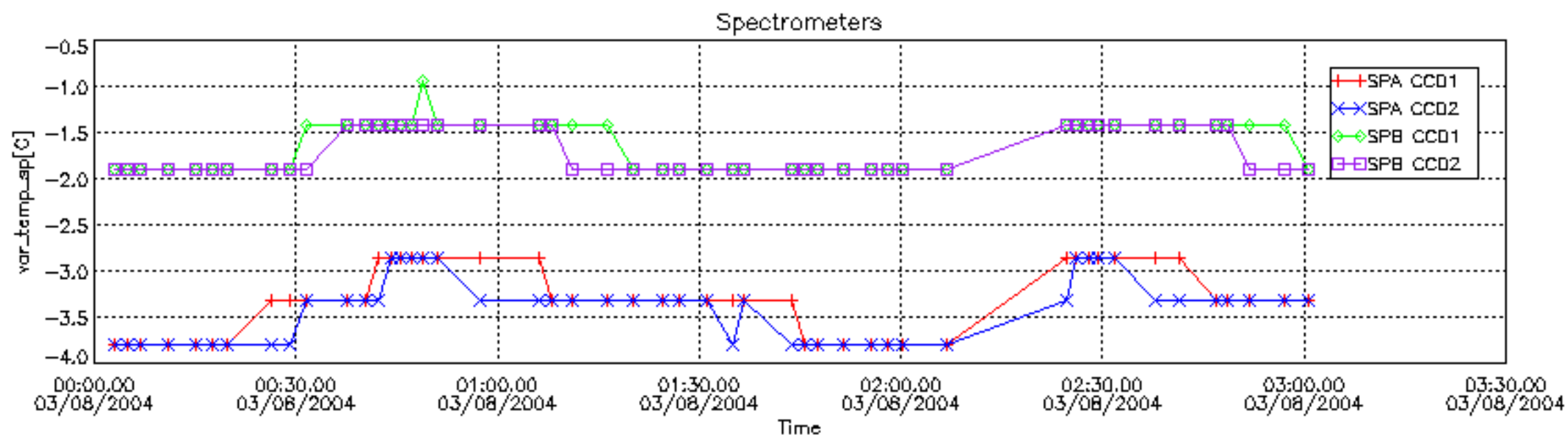
Tangent altitude at which the star is lost

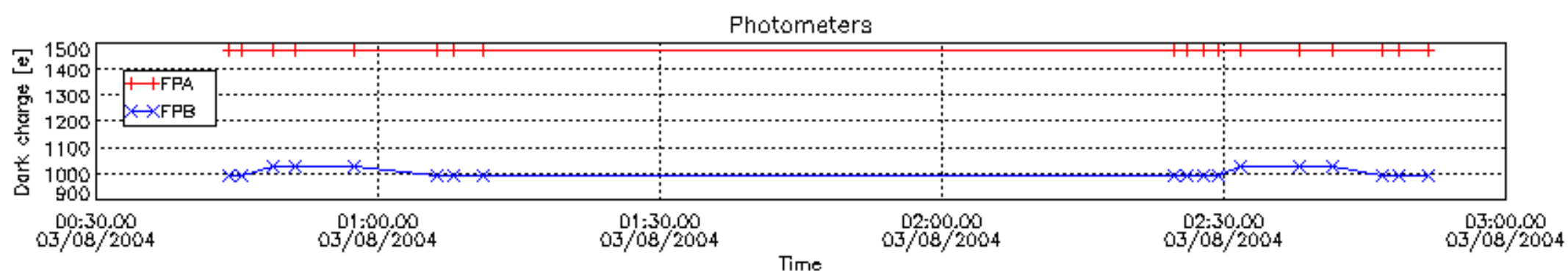
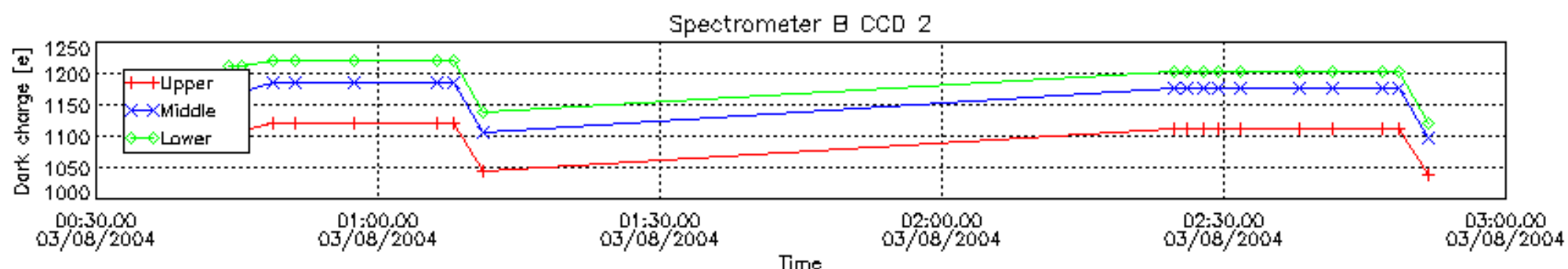
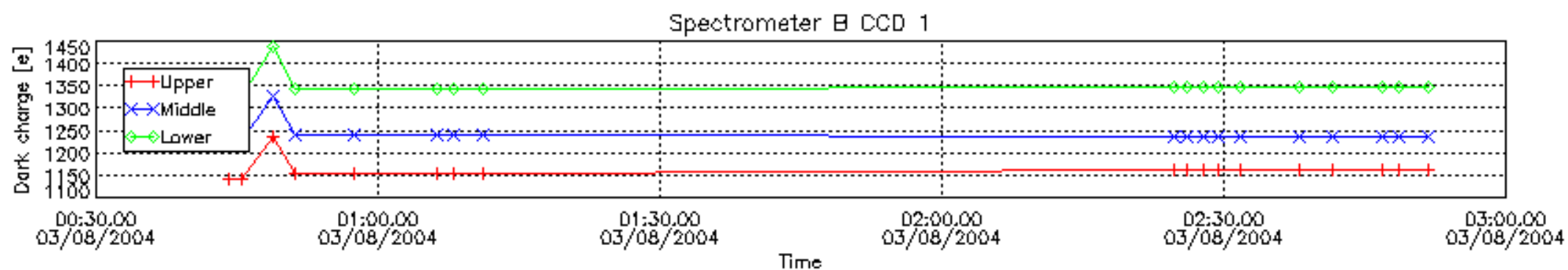
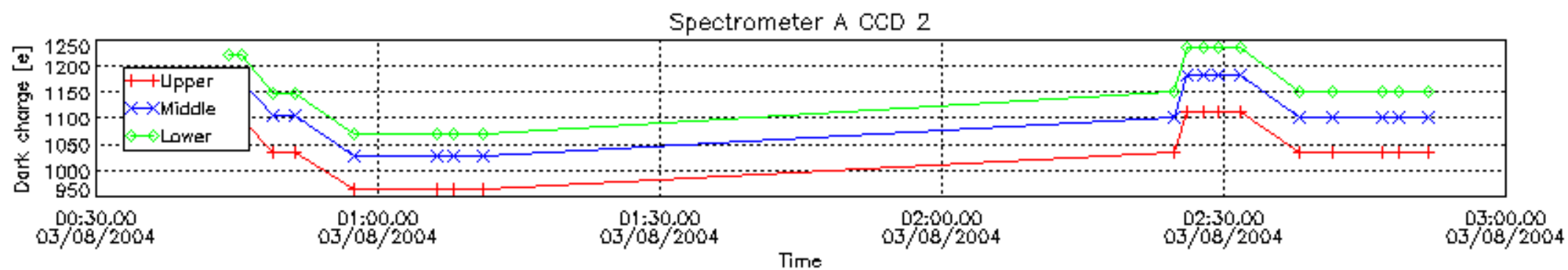
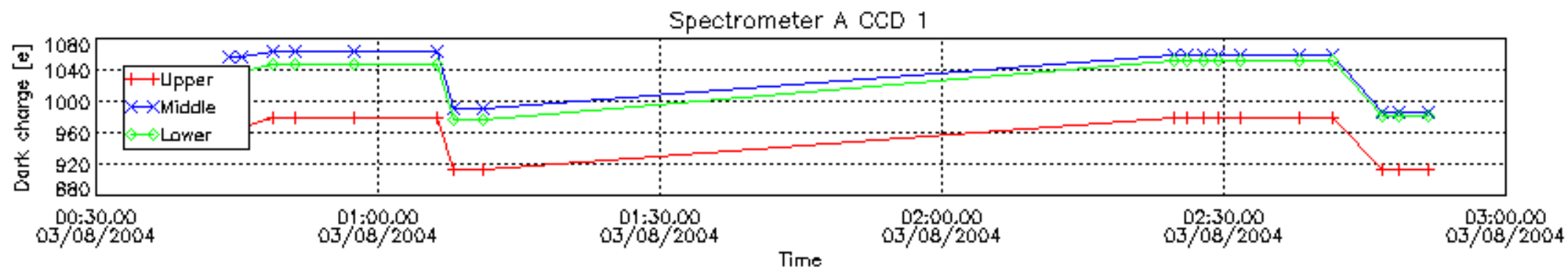


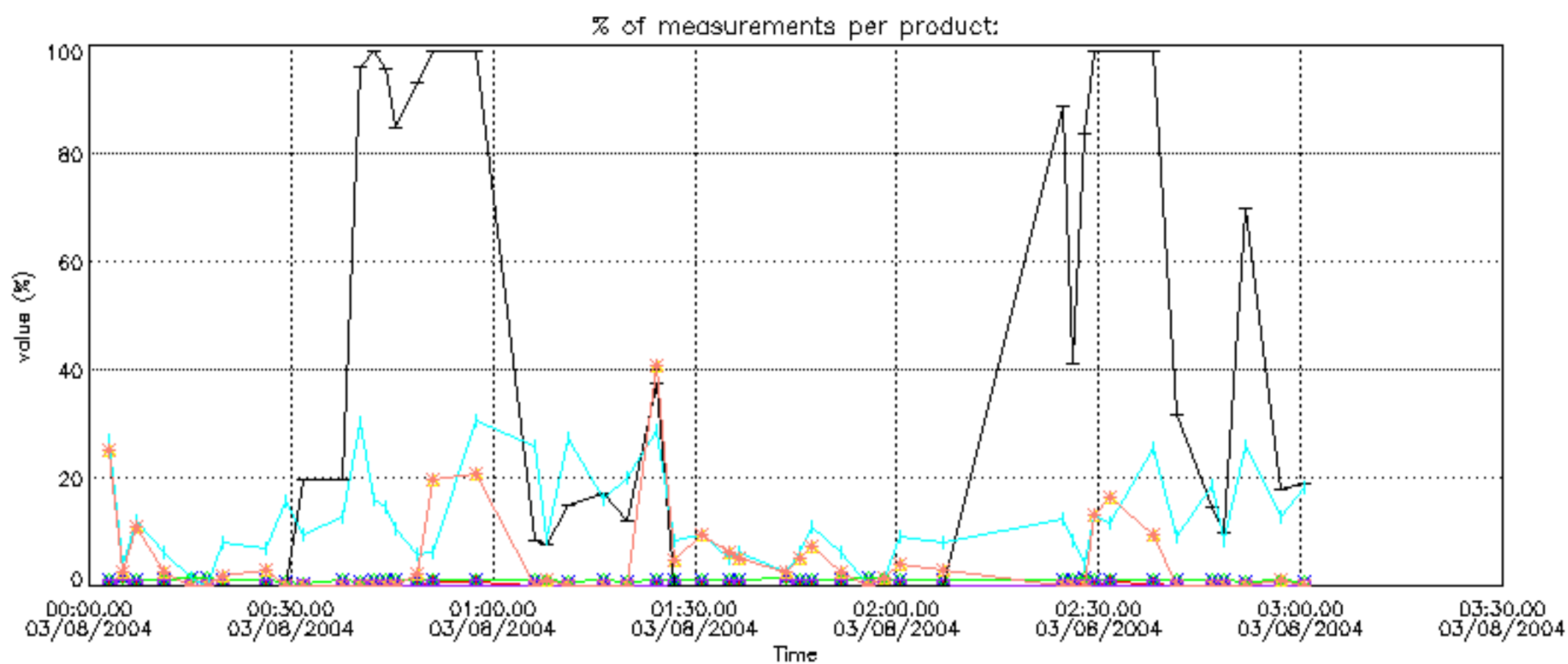
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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	1446.7	1461.3	1447.4
St. deviation:	6.3710	7.2152	6.3261	6.9983
Maximum:	1694.0	1538.0	1513.0	1509.0
Minimum:	1453.0	1433.0	1448.0	1440.0
Number of data:	22500.	22500.	32200.	32200.

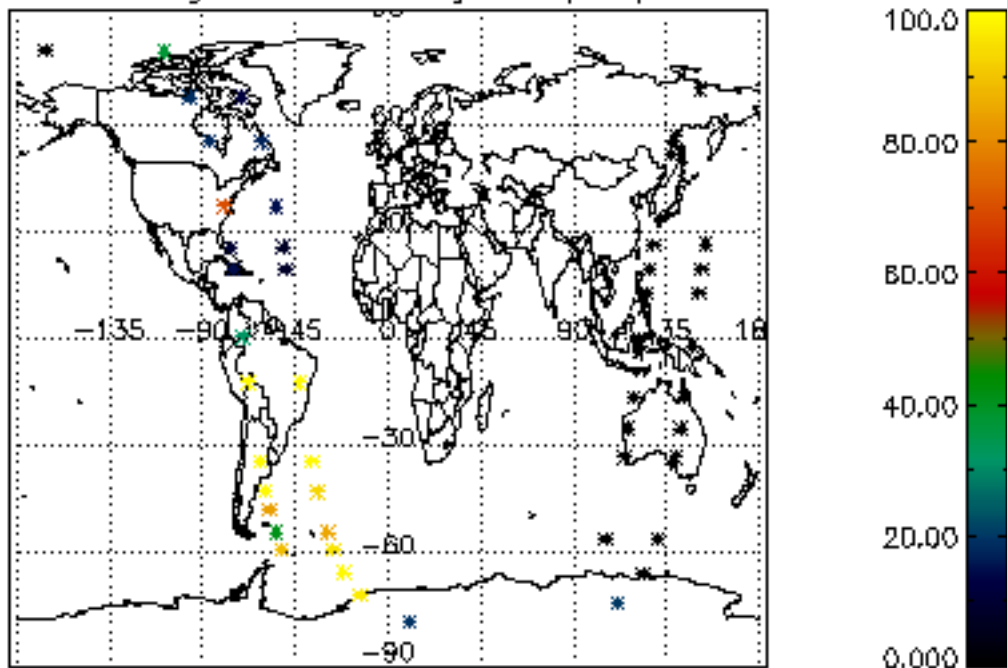




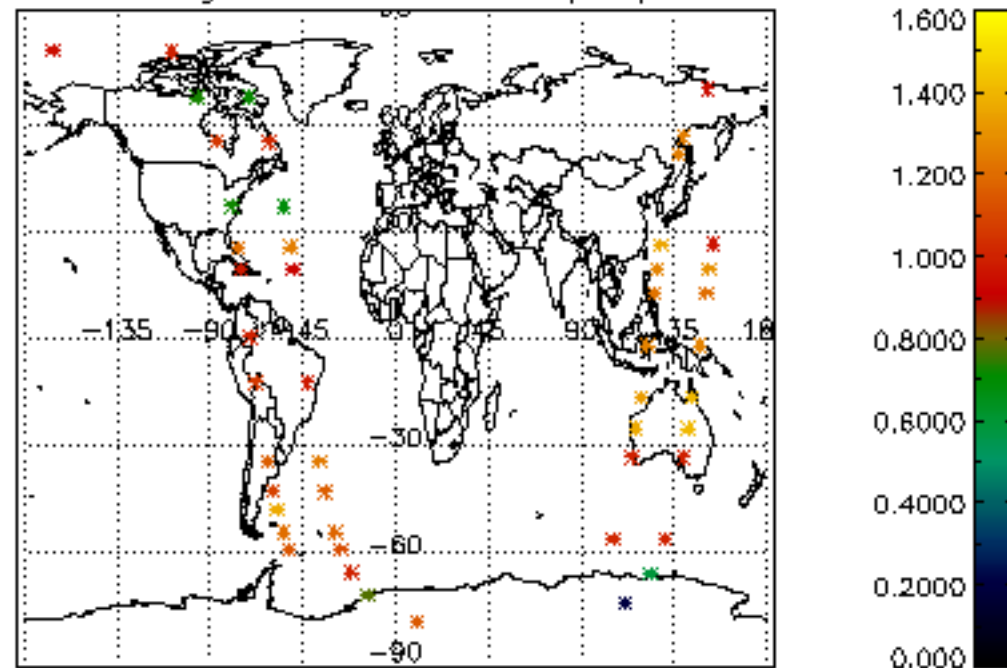




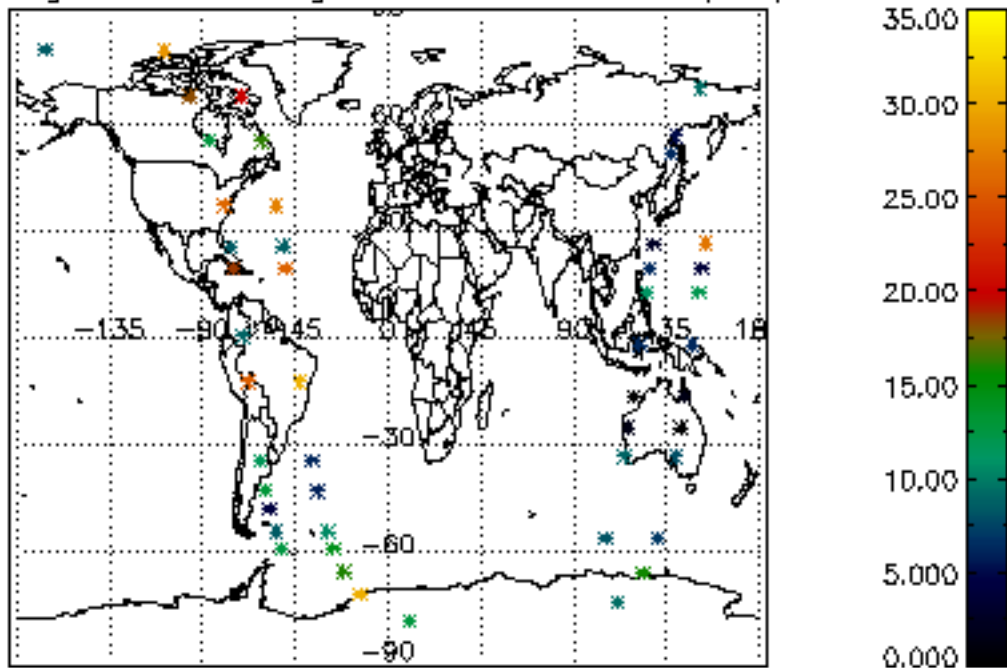
Percentage of cosmic ray hits per profile



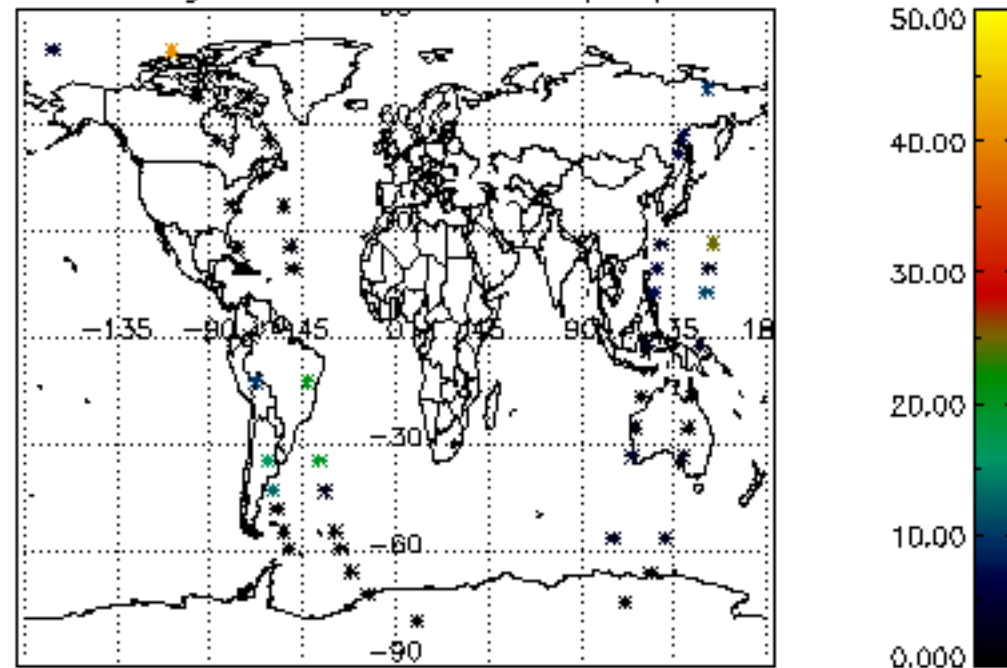
Percentage of datation errors per profile



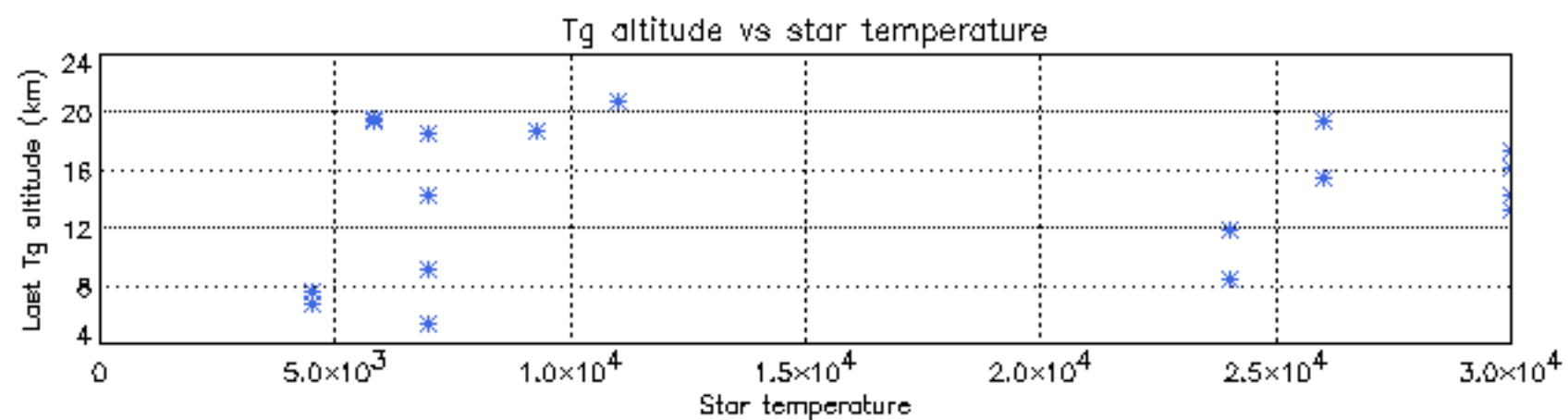
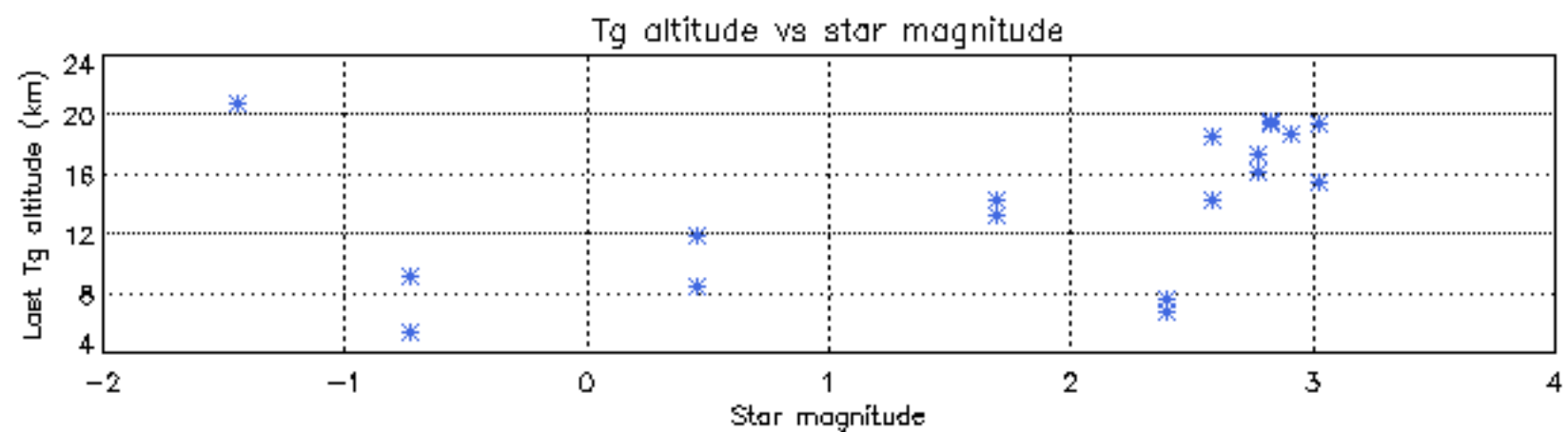
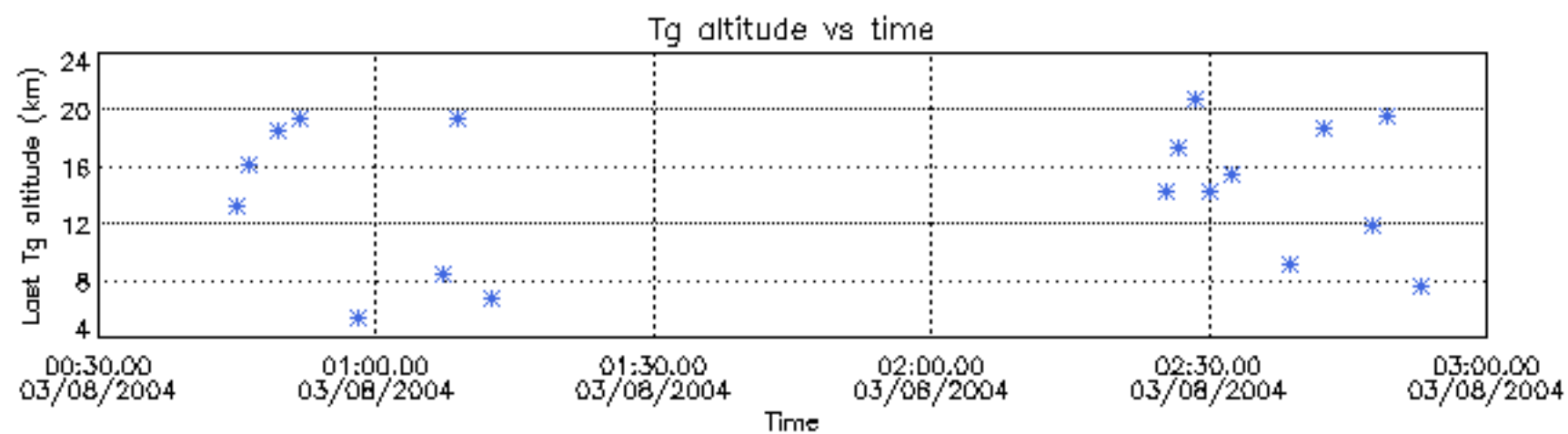
Percentage of star falling outside central band per profile



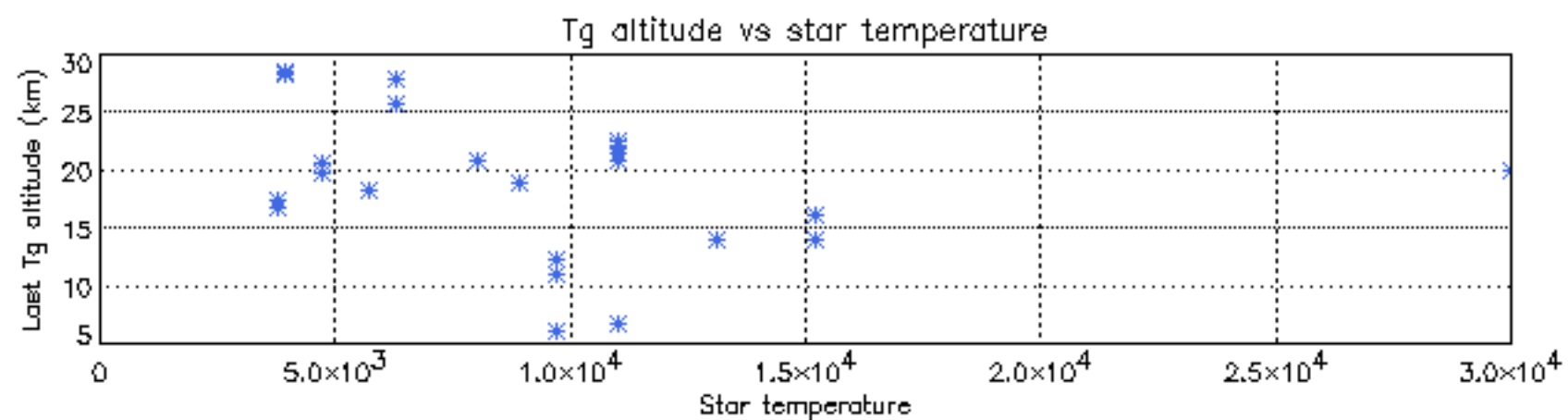
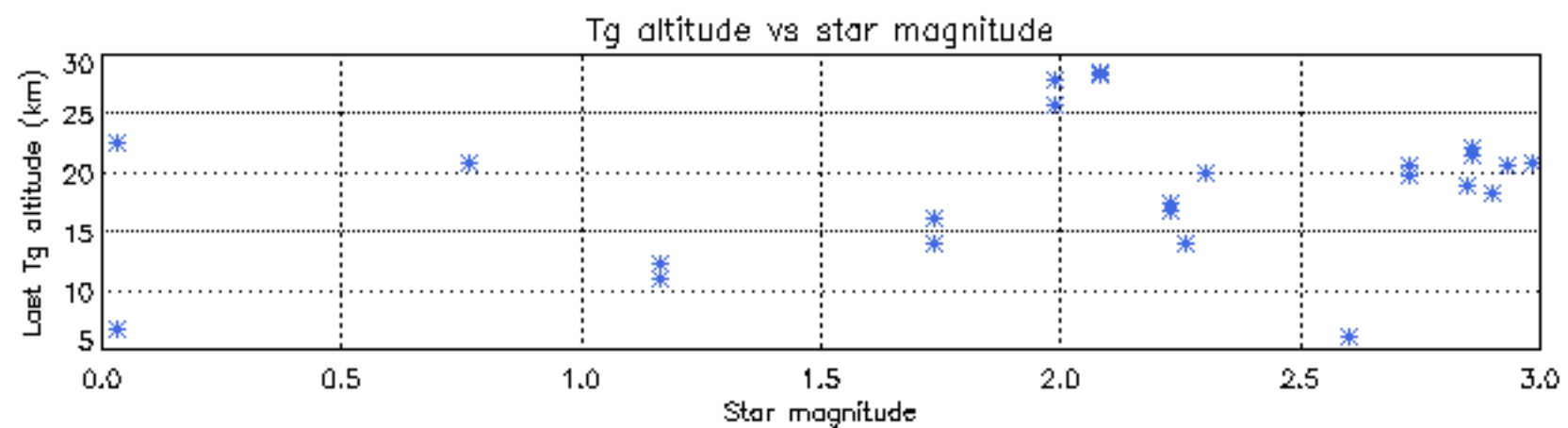
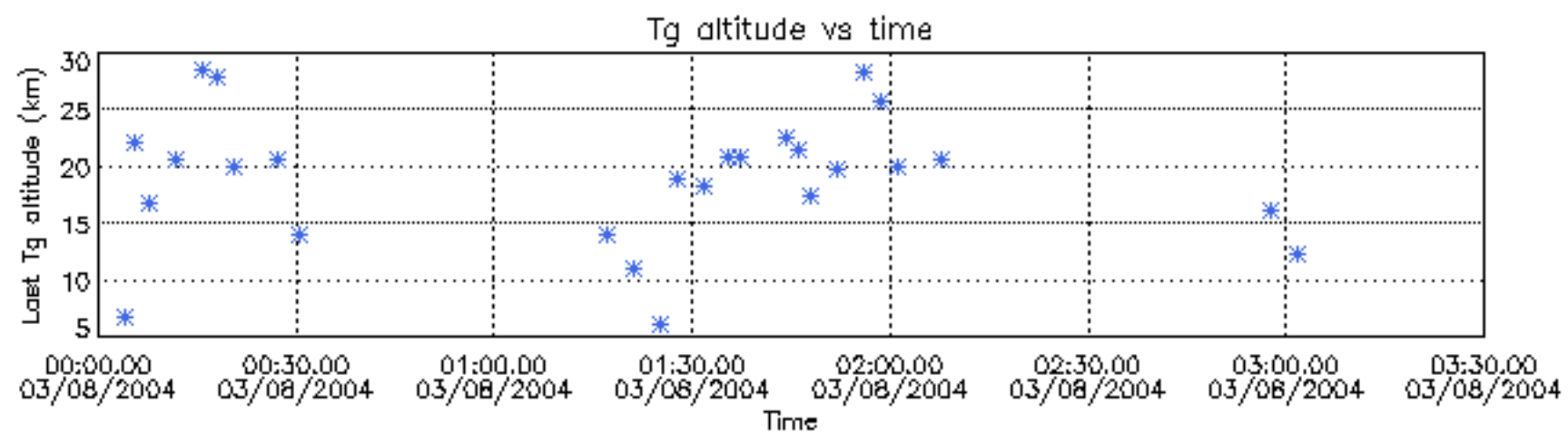
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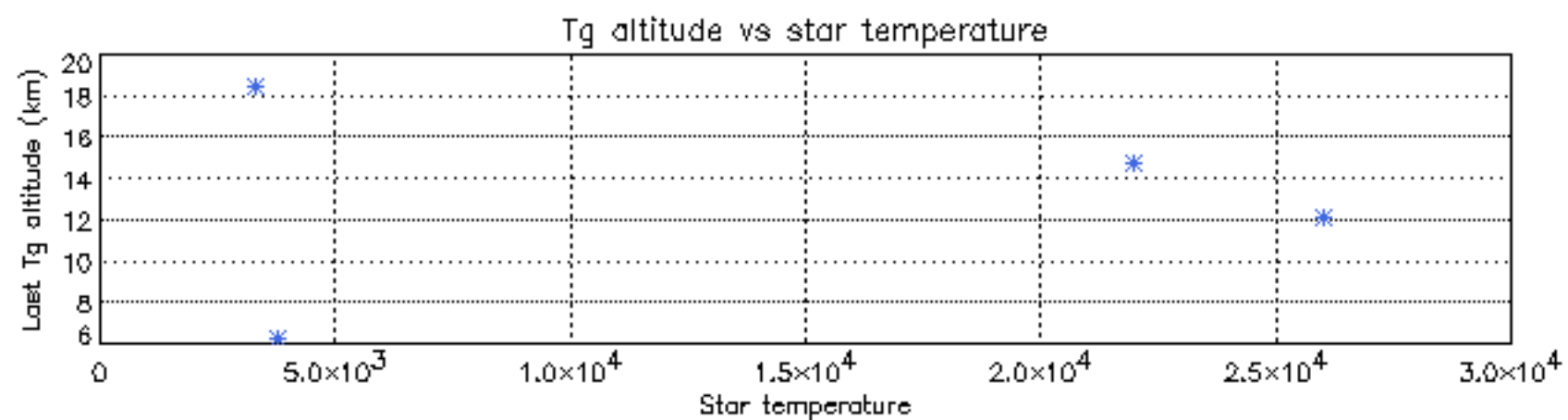
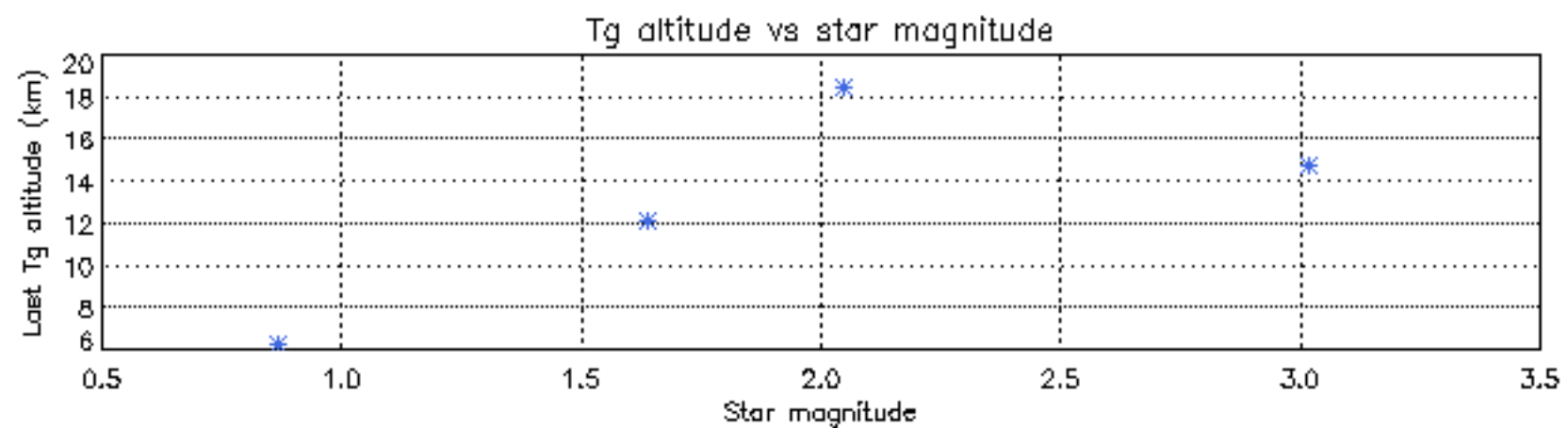
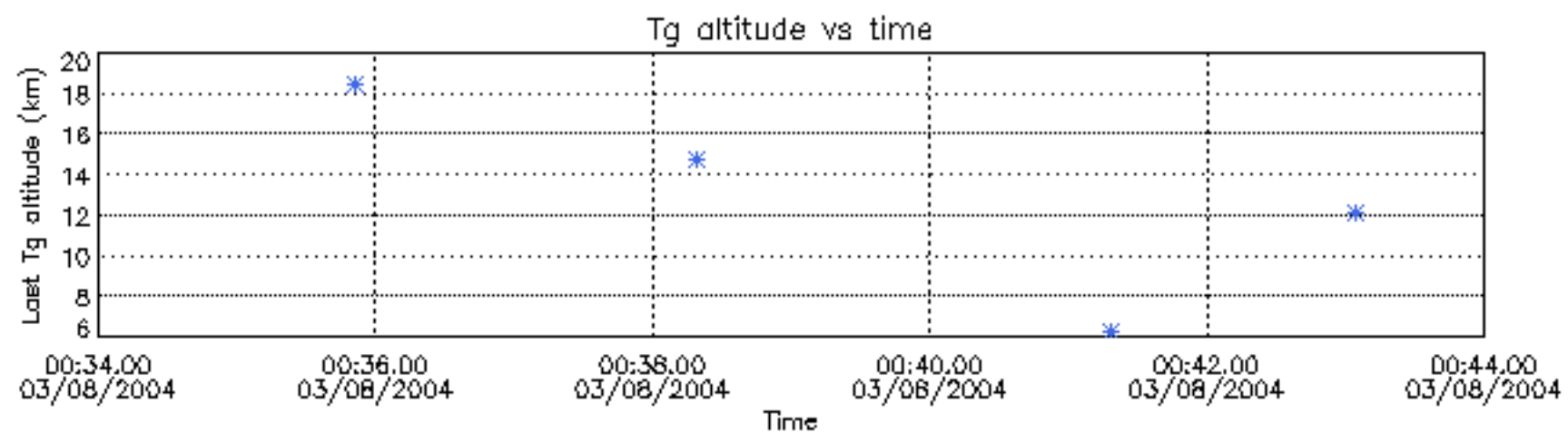
Tangent altitude at which the star is lost



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
10;-2456.3; 02-AUG-2004 09:14:28; Bright; 49.5; 76; 27Gam Cas ; 2.30; 30000;occ; 99; 0;12672
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12;-1895.3; 02-AUG-2004 09:23:49; Bright; 85.0; 73; 57Gam1And ; 2.26; 13100;occ; 170; 0;12672
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17;-1004.4; 02-AUG-2004 09:38:40; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;12672
18; -924.0; 02-AUG-2004 09:40:01; Dark ; 41.0; 125; 44Iot Ori ; 2.77; 30000;occ; 82; 0;12672
19; -811.7; 02-AUG-2004 09:41:53; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;12672
20; -724.4; 02-AUG-2004 09:43:20; Dark ; 43.0; 101; 11Alp Lep ; 2.58; 7000;occ; 86; 0;12672
21; -566.9; 02-AUG-2004 09:45:58; Dark ; 59.5; 165; 34Gam Eri ; 2.95; 3200;occ; 119; 0;12672
22; -285.4; 02-AUG-2004 09:50:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12672
23; -2.0; 02-AUG-2004 09:55:23; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;12672
24; 322.3; 02-AUG-2004 10:00:47; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;12673
25; 430.5; 02-AUG-2004 10:02:35; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;12673
26; 616.8; 02-AUG-2004 10:05:41; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;12673
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28; 862.1; 02-AUG-2004 10:09:47; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;12673
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5;-3347.4; 02-AUG-2004 10:40:13; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;12673
6;-3235.8; 02-AUG-2004 10:42:05; Bright; 41.0; 69; 33Gam Dra ; 2.23; 3800;occ; 82; 0;12673
7;-2991.8; 02-AUG-2004 10:46:09; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;12673
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9;-2596.7; 02-AUG-2004 10:52:44; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;12673
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13;-1737.4; 02-AUG-2004 11:07:03; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12673
14;-1392.7; 02-AUG-2004 11:12:48; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;12673
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19; -811.9; 02-AUG-2004 11:22:29; Dark ; 44.0; 1; 9Alp CMA ; -1.44; 11000;occ; 88; 0;12673
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21; -566.1; 02-AUG-2004 11:26:34; Dark ; 60.0; 165; 34Gam Eri ; 2.95; 3200;occ; 120; 0;12673
22; -284.7; 02-AUG-2004 11:31:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12673
23; -1.3; 02-AUG-2004 11:35:59; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;12673
24; 322.7; 02-AUG-2004 11:41:23; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;12674
25; 430.2; 02-AUG-2004 11:43:11; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12674
26; 617.6; 02-AUG-2004 11:46:18; Dark ; 59.5; 84; Alp Phe ; 2.40; 4500;occ; 119; 0;12674
27; 727.3; 02-AUG-2004 11:48:08; Dark ; 48.0; 148; Alp Tuc ; 2.88; 4100;occ; 96; 0;12674
28; 862.6; 02-AUG-2004 11:50:23; Dark ; 59.5; 63; Bet Gru ; 2.15; 2800;occ; 119; 0;12674
29; 1147.7; 02-AUG-2004 11:55:08; Dark ; 69.5; 18; 24Alp PsA ; 1.17; 9700;occ; 139; 0;12674
30; 1416.0; 02-AUG-2004 11:59:36; Dark ; 44.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 88; 0;12674
31; 1570.4; 02-AUG-2004 12:02:11; Bright; 51.0; 142; 49Del Cap ; 2.85; 8900;occ; 102; 0;12674
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4;-3465.4; 02-AUG-2004 12:18:51; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;12674
5;-3347.7; 02-AUG-2004 12:20:49; Bright; 38.0; 144; 18Del Cyg ; 2.86; 11000;occ; 76; 0;12674
6;-3235.8; 02-AUG-2004 12:22:41; Bright; 40.0; 69; 33Gam Dra ; 2.23; 3800;occ; 80; 0;12674
7;-2991.9; 02-AUG-2004 12:26:44; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;12674
8;-2744.7; 02-AUG-2004 12:30:52; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;12674
9;-2596.9; 02-AUG-2004 12:33:19; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;12674

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 12;-1896.2; 02-AUG-2004 12:45:00; Bright; 89.5; 73; 57Gam1And ; 2.26; 13100;occ; 179; 0;12674  
 13;-1738.5; 02-AUG-2004 12:47:38; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12674  
 14;-1392.8; 02-AUG-2004 12:53:24; Dark ; 42.5; 176; 23Zet Tau ; 3.02; 22000;occ; 85; 0;12674  
 15;-1237.6; 02-AUG-2004 12:55:59; Dark ; 65.0; 13; 87Alp Tau ; 0.87; 3800;occ; 130; 0;12674  
 16;-1119.8; 02-AUG-2004 12:57:57; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;12674  
 17;-1003.7; 02-AUG-2004 12:59:53; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;12674  
 18; -923.7; 02-AUG-2004 13:01:13; Dark ; 42.0; 125; 44Iot Ori ; 2.77; 30000;occ; 84; 0;12674  
 19; -811.7; 02-AUG-2004 13:03:05; Dark ; 39.0; 1; 9Alp CMA ; -1.44; 11000;occ; 78; 0;12674  
 20; -723.8; 02-AUG-2004 13:04:33; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;12674  
 21; -565.1; 02-AUG-2004 13:07:11; Dark ; 58.0; 165; 34Gam Eri ; 2.95; 3200;occ; 116; 0;12674  
 22; -283.9; 02-AUG-2004 13:11:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12674  
 23; -0.3; 02-AUG-2004 13:16:36; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;12674  
 24; 323.4; 02-AUG-2004 13:22:00; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;12675  
 25; 430.4; 02-AUG-2004 13:23:47; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12675  
 26; 617.4; 02-AUG-2004 13:26:54; Dark ; 60.0; 84; Alp Phe ; 2.40; 4500;occ; 120; 0;12675  
 27; 727.7; 02-AUG-2004 13:28:44; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;12675  
 28; 931.1; 02-AUG-2004 13:32:07; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;12675  
 29; 1147.7; 02-AUG-2004 13:35:44; Dark ; 72.0; 18; 24Alp PsA ; 1.17; 9700;occ; 144; 0;12675  
 30; 1416.2; 02-AUG-2004 13:40:13; Dark ; 50.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 101; 0;12675  
 31; 1570.0; 02-AUG-2004 13:42:46; Bright; 1.5; 142; 49Del Cap ; 2.85; 8900;occ; 3; 0;12675

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Problem occurred when reading packet number 991!

Problem occurred when reading packet number 3241!

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 2;-4219.5; 02-AUG-2004 13:46:53; Bright; 51.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 103; 0;12675  
 3;-3979.8; 02-AUG-2004 13:50:52; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;12675  
 4;-3891.0; 02-AUG-2004 13:52:21; Bright; 36.5; 168; 17Zet Aql ; 2.99; 11000;occ; 73; 0;12675  
 5;-3465.1; 02-AUG-2004 13:59:27; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;12675  
 6;-3347.6; 02-AUG-2004 14:01:25; Bright; 38.0; 144; 18Del Cyg ; 2.86; 11000;occ; 76; 0;12675  
 7;-3235.4; 02-AUG-2004 14:03:17; Bright; 41.0; 69; 33Gam Dra ; 2.23; 3800;occ; 82; 0;12675  
 8;-2991.4; 02-AUG-2004 14:07:21; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;12675  
 9;-2743.8; 02-AUG-2004 14:11:28; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;12675  
 10;-2596.7; 02-AUG-2004 14:13:56; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;12675  
 11;-2458.3; 02-AUG-2004 14:16:14; Bright; 50.5; 76; 27Gam Cas ; 2.30; 30000;occ; 101; 0;12675  
 12;-2067.8; 02-AUG-2004 14:22:45; Bright; 316.0; 160; 23Gam Per ; 2.93; 4700;occ; 632; 547;12675  
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 14;-144770922.2; 01-JAN-2000 00:48:30; Bright; 87.0; 73; 57Gam1And ; 2.26; 13100;occ; 174; 0;12675  
 15;-144770764.8; 01-JAN-2000 00:51:07; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12675  
 16;-144770416.9; 01-JAN-2000 00:56:55; Dark ; 42.0; 176; 23Zet Tau ; 3.02; 22000;occ; 84; 0;12675  
 17;-144770262.1; 01-JAN-2000 00:59:30; Dark ; 65.0; 13; 87Alp Tau ; 0.87; 3800;occ; 130; 0;12675  
 18;-144770143.1; 01-JAN-2000 01:01:29; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;12675  
 19;-144770028.3; 01-JAN-2000 01:03:24; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;12675  
 20;-144769948.4; 01-JAN-2000 01:04:44; Dark ; 39.0; 125; 44Iot Ori ; 2.77; 30000;occ; 78; 0;12675  
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 26;-144769024.4; 01-JAN-2000 01:20:08; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;12675  
 27;-144768701.3; 01-JAN-2000 01:25:31; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;12675  
 28;-144768594.9; 01-JAN-2000 01:27:17; Dark ; 41.0; 135; Bet Hyi ; 2.82; 5800;occ; 82; 0;12675  
 29;-144768406.0; 01-JAN-2000 01:30:26; Dark ; 65.0; 84; Alp Phe ; 2.40; 4500;occ; 130; 0;12675  
 30;-144768297.3; 01-JAN-2000 01:32:15; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;12675  
 31;-144768092.7; 01-JAN-2000 01:35:40; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 15;12675  
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 33;-144767609.7; 01-JAN-2000 01:43:43; Dark ; 10.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 20; 0;12675

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 2;-4465.4; 02-AUG-2004 15:23:23; Bright; 53.5; 142; 49Del Cap ; 2.85; 8900;occ; 107; 0;12676  
 3;-4219.2; 02-AUG-2004 15:27:29; Bright; 53.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 106; 0;12676  
 4;-3980.2; 02-AUG-2004 15:31:28; Bright; 39.5; 11; 53Alp Aql ; 0.76; 8000;occ; 79; 0;12676  
 5;-3892.0; 02-AUG-2004 15:32:56; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76; 0;12676  
 6;-3465.5; 02-AUG-2004 15:40:03; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;12676  
 7;-3348.0; 02-AUG-2004 15:42:00; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;12676  
 8;-3235.7; 02-AUG-2004 15:43:53; Bright; 38.0; 69; 33Gam Dra ; 2.23; 3800;occ; 76; 0;12676  
 9;-2991.6; 02-AUG-2004 15:47:57; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;12676

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10;-2744.2; 02-AUG-2004 15:52:04; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;12676
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26; 2.1; 02-AUG-2004 16:37:50; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;12677
27; 324.7; 02-AUG-2004 16:43:13; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;12677
28; 430.4; 02-AUG-2004 16:44:59; Dark ; 41.5; 135; Bet Hyi ; 2.82; 5800;occ; 83; 0;12677
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31; 931.9; 02-AUG-2004 16:53:20; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;12677
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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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 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