

GOMOS Daily Report 23-MAY-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](#)

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	24MAY2004 03:42:55
Data source version	GOMOS/4.02
Start time of products	23-MAY-2004 (23MAY2004 00:00:00)
Stop time of products	24-MAY-2004 (24MAY2004 00:00:00)

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

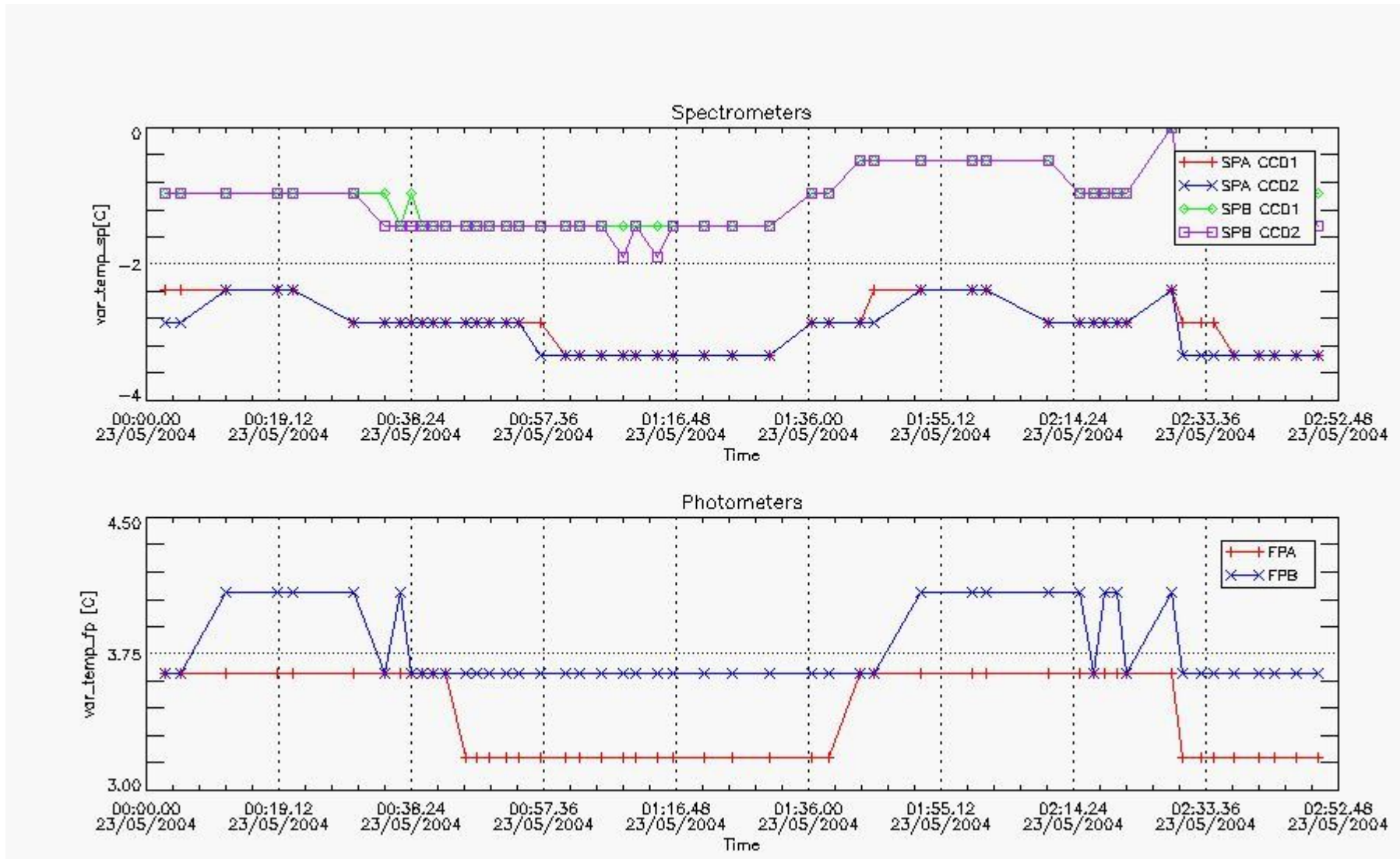
2. Summary of products arrived in PCF

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_1PNPDE20040523_000244_000000492027_00073_11650_0020.N1	23-MAY-2004 00:02:44	Twilight	49.000	140	88Gam Peg	2.8340	26000.	98	11650	No
GOM_TRA_1PNPDE20040523_000454_000000642027_00073_11650_0021.N1	23-MAY-2004 00:04:54	Dark	64.000	90	54Alp Peg	2.4870	11000.	128	11650	No
GOM_TRA_1PNPDE20040523_001133_000000462027_00073_11650_0022.N1	23-MAY-2004 00:11:33	Dark	45.500	52	16Bet Cet	2.0370	4500.0	91	11650	No
GOM_TRA_1PNPDE20040523_001900_000000582027_00073_11650_0023.N1	23-MAY-2004 00:19:00	Dark	58.000	18	24Alp PsA	1.1660	9700.0	116	11650	No
GOM_TRA_1PNPDE20040523_002113_000000442027_00073_11650_0024.N1	23-MAY-2004 00:21:13	Dark	43.500	9	Alp Eri	0.45300	24000.	87	11650	No
GOM_TRA_1PNPDE20040523_003004_000000452027_00074_11651_0025.N1	23-MAY-2004 00:30:04	Dark	45.000	45	Alp Pav	1.9400	26000.	90	11651	No
GOM_TRA_1PNPDE20040523_003438_000000432027_00074_11651_0026.N1	23-MAY-2004 00:34:38	Twilight	42.500	43	Alp TrA	1.9100	4250.0	85	11651	No
GOM_TRA_1PNPDE20040523_003647_000000392027_00074_11651_0027.N1	23-MAY-2004 00:36:47	Twilight	39.000	134	Bet TrA	2.8100	6600.0	78	11651	No
GOM_TRA_1PNPDE20040523_003818_000000522027_00074_11651_0028.N1	23-MAY-2004 00:38:18	Bright	52.000	4	Alp1Cen	-0.010000	5800.0	104	11651	No
GOM_TRA_1PNPDE20040523_004005_000000512027_00074_11651_0029.N1	23-MAY-2004 00:40:05	Bright	51.000	178	lot1Sco	3.0220	6550.0	102	11651	No
GOM_TRA_1PNPDE20040523_004128_000000562027_00074_11651_0030.N1	23-MAY-2004 00:41:28	Bright	56.000	25	35Lam Sco	1.6200	28000.	112	11651	No
GOM_TRA_1PNPDE20040523_004326_000000432027_00074_11651_0031.N1	23-MAY-2004 00:43:26	Bright	43.000	81	Eta Cen	2.3560	28000.	86	11651	No
GOM_TRA_1PNPDE20040523_004622_000000602027_00074_11651_0000.N1	23-MAY-2004 00:46:22	Bright	60.000	16	21Alp Sco	1.0200	3000.0	120	11651	No
GOM_TRA_1PNPDE20040523_004754_000000462027_00074_11651_0001.N1	23-MAY-2004 00:47:54	Bright	46.000	80	7Del Sco	2.3160	30000.	92	11651	No
GOM_TRA_1PNPDE20040523_004942_000000542027_00074_11651_0002.N1	23-MAY-2004 00:49:42	Bright	53.500	86	35Eta Oph	2.4300	10200.	107	11651	No
GOM_TRA_1PNPDE20040523_005216_000000402027_00074_11651_0003.N1	23-MAY-2004 00:52:16	Bright	39.500	104	27Bet Lib	2.6140	13100.	79	11651	No
GOM_TRA_1PNPDE20040523_005402_000000462027_00074_11651_0004.N1	23-MAY-2004 00:54:02	Bright	45.500	120	1Del Oph	2.7340	3200.0	91	11651	No
GOM_TRA_1PNPDE20040523_005707_000000422027_00074_11651_0005.N1	23-MAY-2004 00:57:07	Bright	41.500	102	24Alp Ser	2.6000	4250.0	83	11651	No
GOM_TRA_1PNPDE20040523_010039_000000392027_00074_11651_0006.N1	23-MAY-2004 01:00:39	Bright	39.000	3	16Alp Boo	-0.050000	4250.0	78	11651	No
GOM_TRA_1PNPDE20040523_010253_000000392027_00074_11651_0007.N1	23-MAY-2004 01:02:53	Bright	38.500	83		2.3780	11000.	77	11651	No
GOM_TRA_1PNPDE20040523_010602_000000372027_00074_11651_0008.N1	23-MAY-2004 01:06:02	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	11651	No
GOM_TRA_1PNPDE20040523_010911_000000392027_00074_11651_0009.N1	23-MAY-2004 01:09:11	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	11651	No
GOM_TRA_1PNPDE20040523_011053_000000362027_00074_11651_0010.N1	23-MAY-2004 01:10:53	Bright	35.500	55	79Zet UMa	2.0600	10200.	71	11651	No
GOM_TRA_1PNPDE20040523_011408_000000392027_00074_11651_0011.N1	23-MAY-2004 01:14:08	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	11651	No
GOM_TRA_1PNPDE20040523_011615_000000402027_00074_11651_0012.N1	23-MAY-2004 01:16:15	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	11651	No
GOM_TRA_1PNPDE20040523_012048_000000372027_00074_11651_0013.N1	23-MAY-2004 01:20:48	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	11651	No
GOM_TRA_1PNPDE20040523_012500_000000472027_00074_11651_0014.N1	23-MAY-2004 01:25:00	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	11651	No
GOM_TRA_1PNPDE20040523_013014_000001162027_00074_11651_0015.N1	23-MAY-2004 01:30:14	Bright	116.00	66	37Gam Cyg	2.2080	5900.0	232	11651	No
GOM_TRA_1PNPDE20040523_013622_000000422027_00074_11651_0016.N1	23-MAY-2004 01:36:22	Twilight	42.000	53	43Bet And	2.0480	3300.0	84	11651	No
GOM_TRA_1PNPDE20040523_013854_000000492027_00074_11651_0017.N1	23-MAY-2004 01:38:54	Twilight	48.500	58	21Alp And	2.0730	11000.	97	11651	No
GOM_TRA_1PNPDE20040523_014321_000000482027_00074_11651_0018.N1	23-MAY-2004 01:43:21	Twilight	47.500	140	88Gam Peg	2.8340	26000.	95	11651	No
GOM_TRA_1PNPDE20040523_014532_000000702027_00074_11651_0019.N1	23-MAY-2004 01:45:32	Dark	69.500	90	54Alp Peg	2.4870	11000.	139	11651	No
GOM_TRA_1PNPDE20040523_015209_000000462027_00074_11651_0020.N1	23-MAY-2004 01:52:09	Dark	46.000	52	16Bet Cet	2.0370	4500.0	92	11651	No
GOM_TRA_1PNPDE20040523_015936_000000572027_00074_11651_0021.N1	23-MAY-2004 01:59:36	Dark	57.000	18	24Alp PsA	1.1660	9700.0	114	11651	No
GOM_TRA_1PNPDE20040523_020149_000000462027_00074_11651_0022.N1	23-MAY-2004 02:01:49	Dark	45.500	9	Alp Eri	0.45300	24000.	91	11651	No
GOM_TRA_1PNPDE20040523_021040_000000442027_00075_11652_0023.N1	23-MAY-2004 02:10:40	Dark	44.000	45	Alp Pav	1.9400	26000.	88	11652	No
GOM_TRA_1PNPDE20040523_021514_000000442027_00075_11652_0024.N1	23-MAY-2004 02:15:14	Twilight	44.000	43	Alp TrA	1.9100	4250.0	88	11652	No
GOM_TRA_1PNPDE20040523_021722_000000392027_00075_11652_0025.N1	23-MAY-2004 02:17:22	Twilight	39.000	134	Bet TrA	2.8100	6600.0	78	11652	No
GOM_TRA_1PNPDE20040523_021854_000000442027_00075_11652_0026.N1	23-MAY-2004 02:18:54	Bright	43.500	4	Alp1Cen	-0.010000	5800.0	87	11652	No
GOM_TRA_1PNPDE20040523_022041_000000492027_00075_11652_0027.N1	23-MAY-2004 02:20:41	Bright	48.500	178	lot1Sco	3.0220	6550.0	97	11652	No
GOM_TRA_1PNPDE20040523_022205_000000532027_00075_11652_0028.N1	23-MAY-2004 02:22:05	Bright	52.500	25	35Lam Sco	1.6200	28000.	105	11652	No
GOM_TRA_1PNPDE20040523_022832_000000462027_00075_11652_0000.N1	23-MAY-2004 02:28:32	Bright	46.000	80	7Del Sco	2.3160	30000.	92	11652	Yes
GOM_TRA_1PNPDE20040523_023018_000000542027_00075_11652_0001.N1	23-MAY-2004 02:30:18	Bright	53.500	86	35Eta Oph	2.4300	10200.	107	11652	No
GOM_TRA_1PNPDE20040523_023252_000000402027_00075_11652_0002.N1	23-MAY-2004 02:32:52	Bright	39.500	104	27Bet Lib	2.6140	13100.	79	11652	No
GOM_TRA_1PNPDE20040523_023438_000000462027_00075_11652_0003.N1	23-MAY-2004 02:34:38	Bright	46.000	120	1Del Oph	2.7340	3200.0	92	11652	No
GOM_TRA_1PNPDE20040523_023742_000000432027_00075_11652_0004.N1	23-MAY-2004 02:37:42	Bright	42.500	102	24Alp Ser	2.6000	4250.0	85	11652	No
GOM_TRA_1PNPDE20040523_024115_000000382027_00075_11652_0005.N1	23-MAY-2004 02:41:15	Bright	38.000	3	16Alp Boo	-0.050000	4250.0	76	11652	No
GOM_TRA_1PNPDE20040523_024328_000000402027_00075_11652_0006.N1	23-MAY-2004 02:43:28	Bright	39.500	83		2.3780	11000.	79	11652	No
GOM_TRA_1PNPDE20040523_024637_000000382027_00075_11652_0007.N1	23-MAY-2004 02:46:37	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	11652	No

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



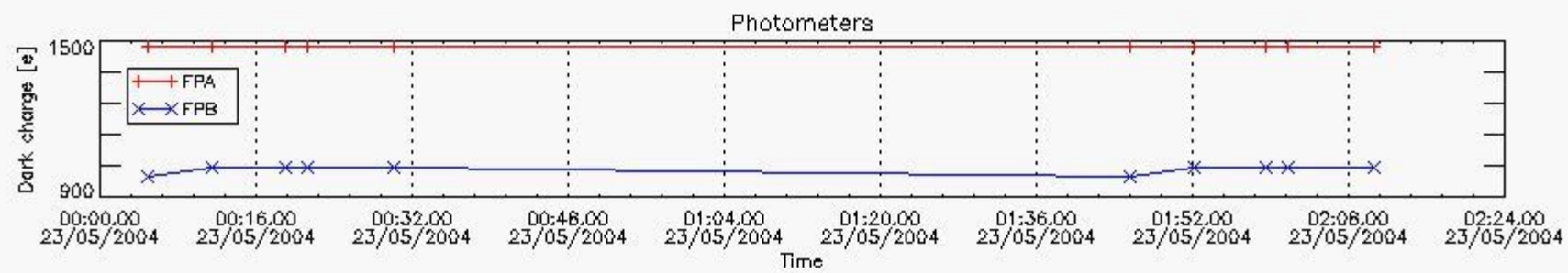
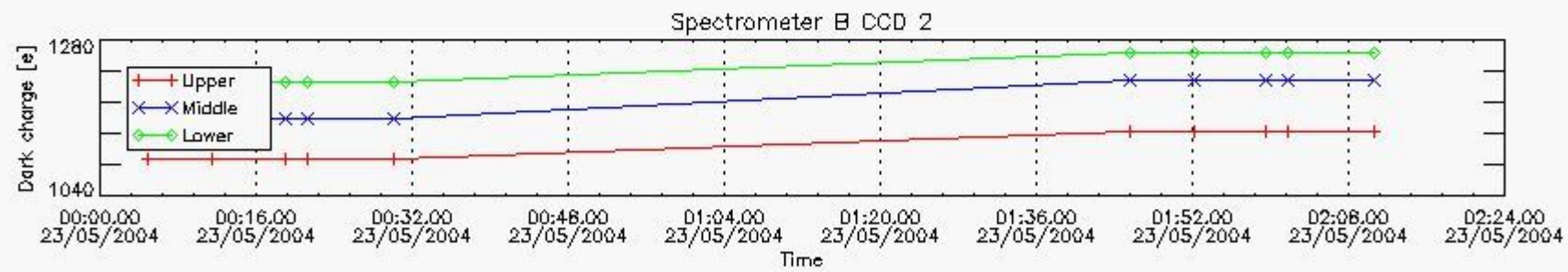
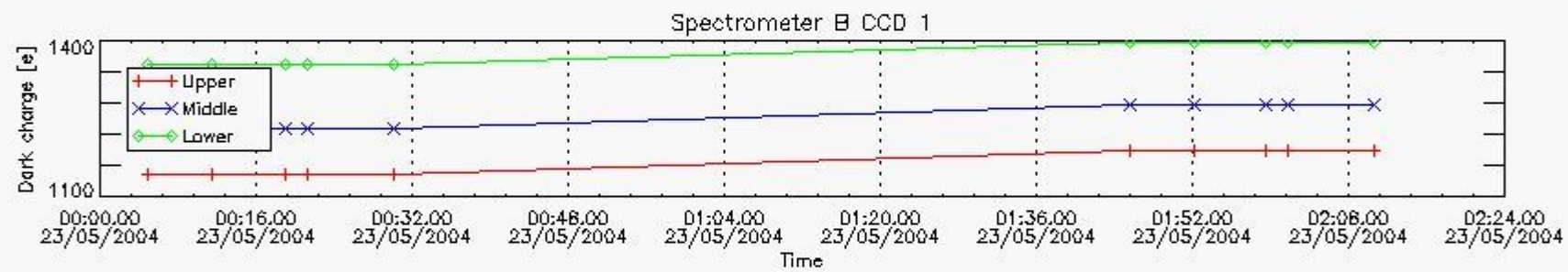
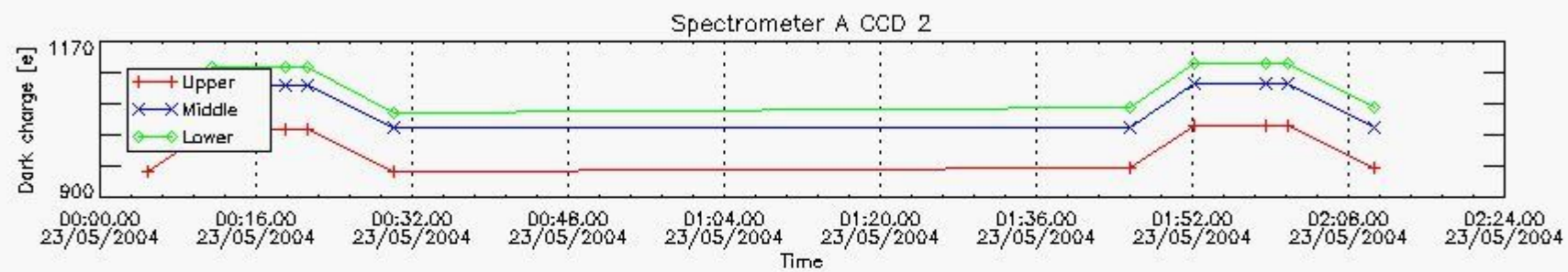
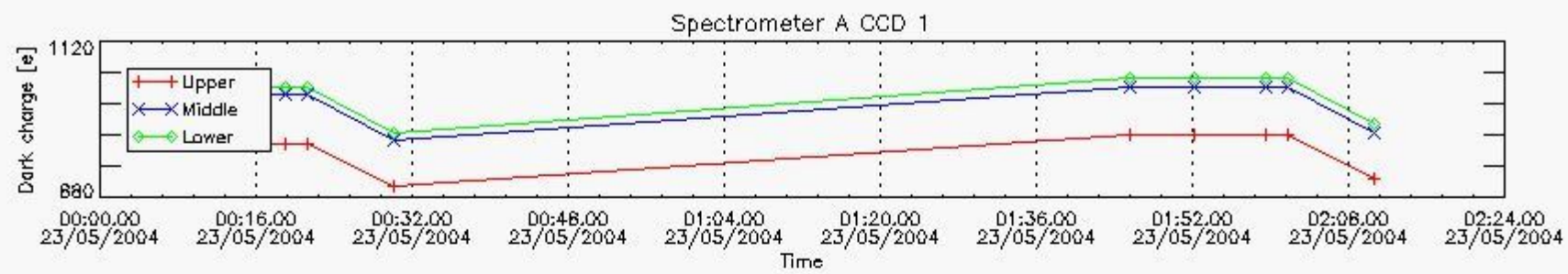
4. Overview of dark signal processing per product

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



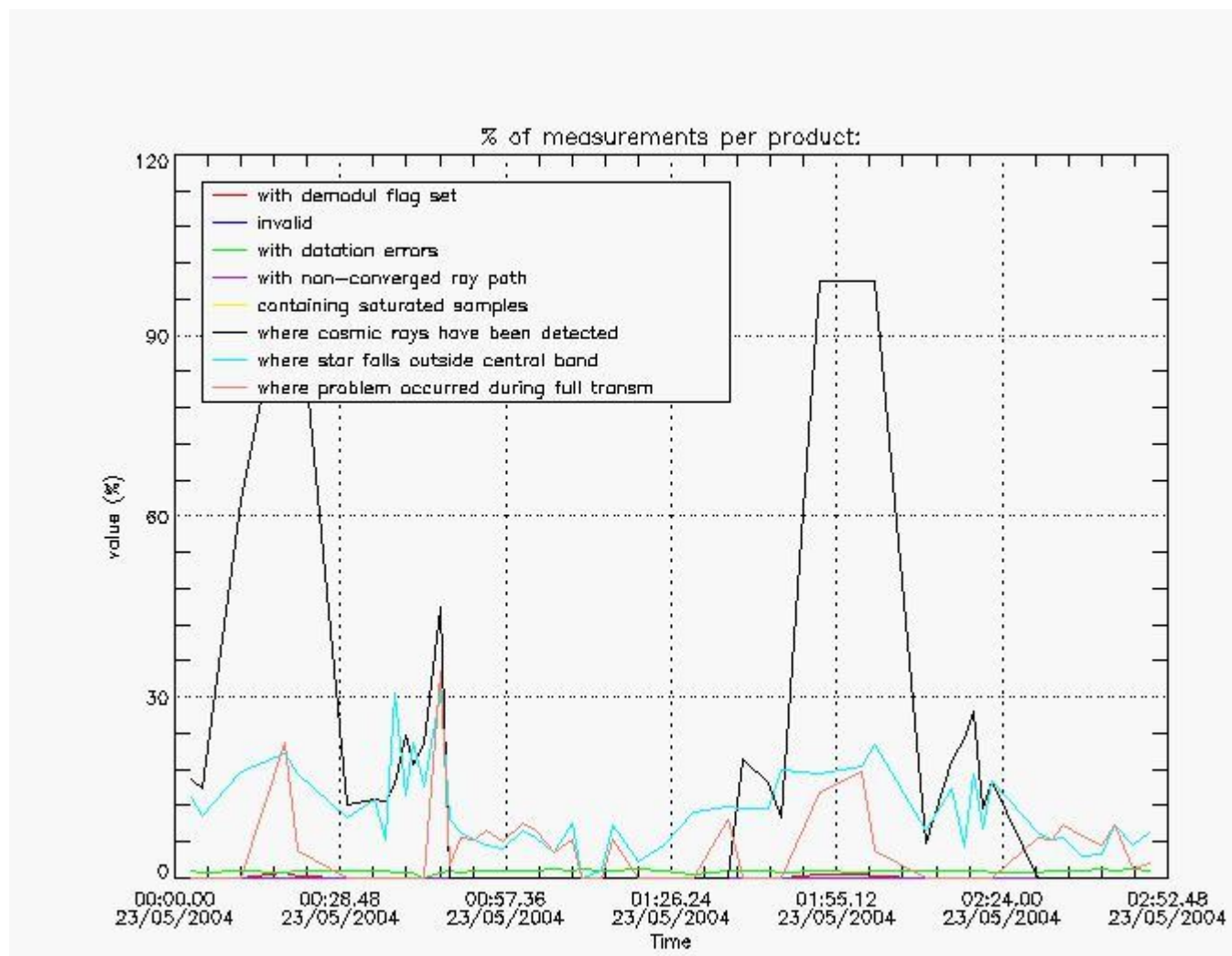
5. Demodulation flag and quality information monitoring

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:

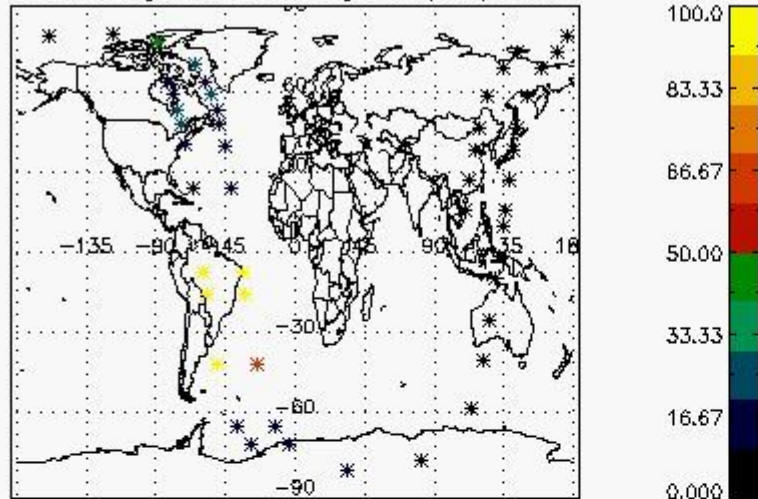
At least one measurement with demodulation flag set:	10.2041 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

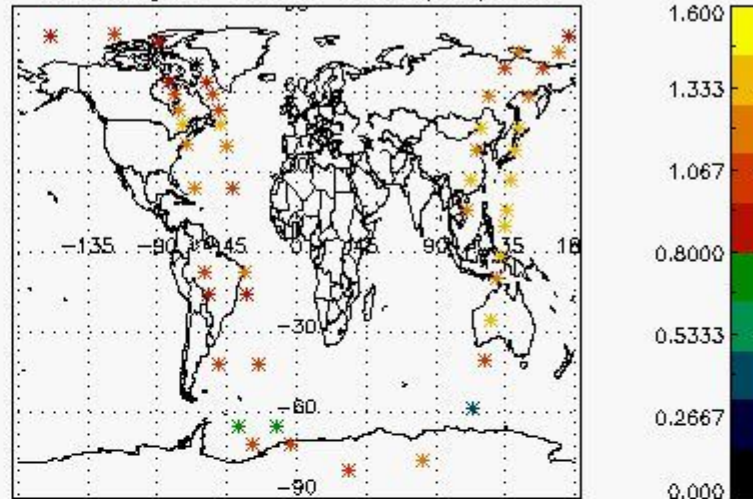


5.3 Plot quality information per product (world map)

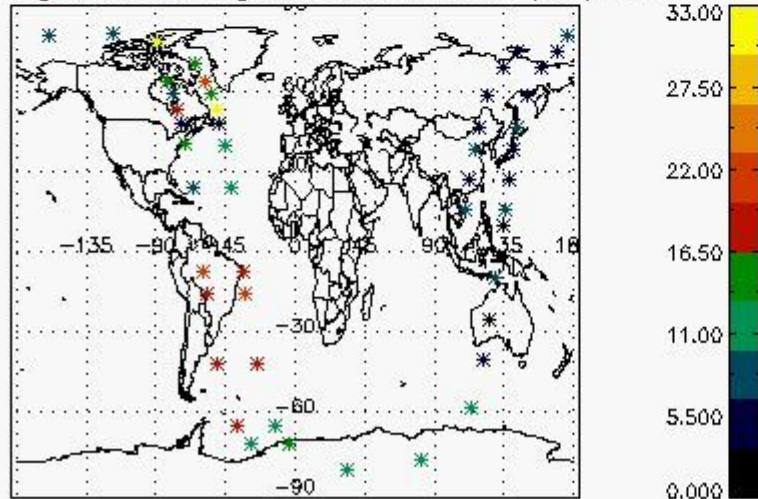
Percentage of cosmic ray hits per profile



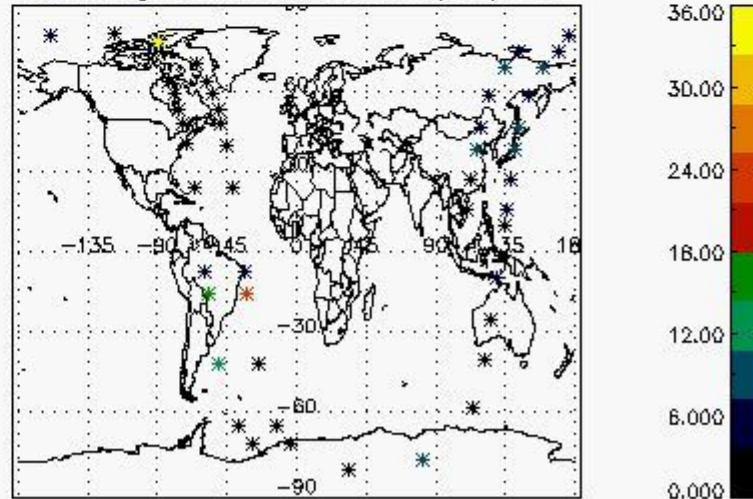
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



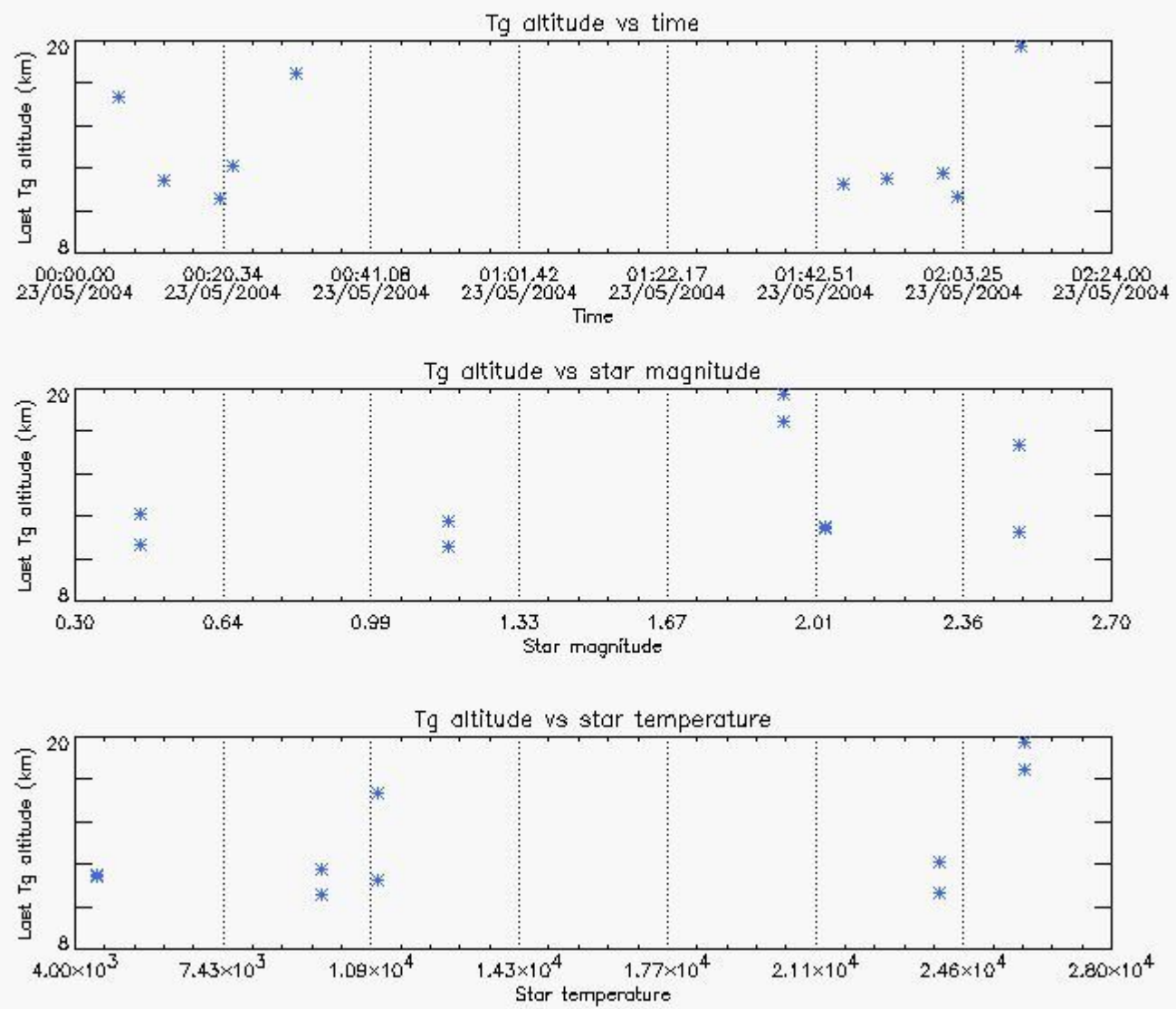
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.863	18.506	16.562
St. deviation:	3.1310	5.0492	2.4021
Maximum:	19.667	27.506	20.647
Minimum:	11.103	4.6386	14.172
Number of data:	10.000	31.000	8.0000

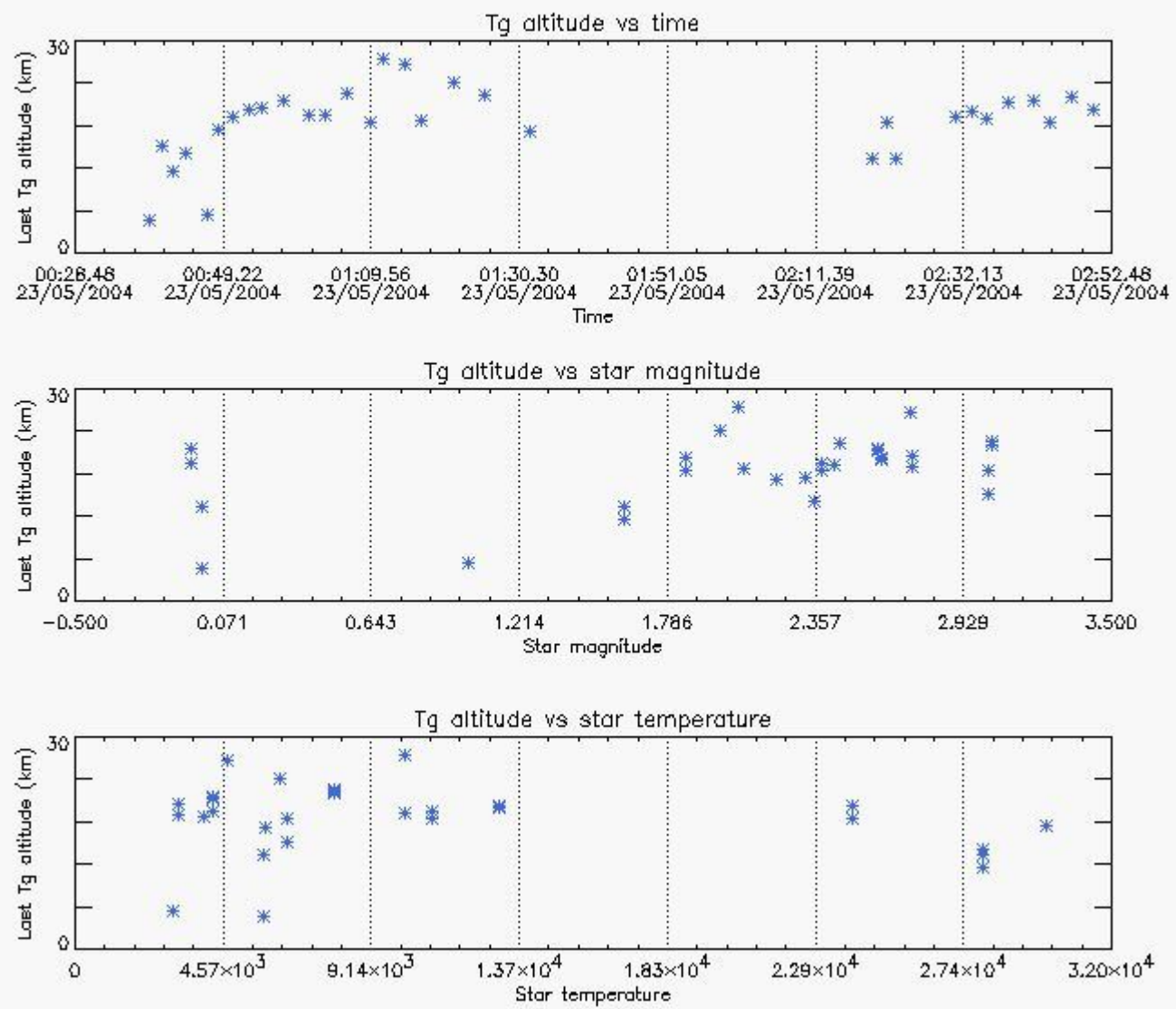
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



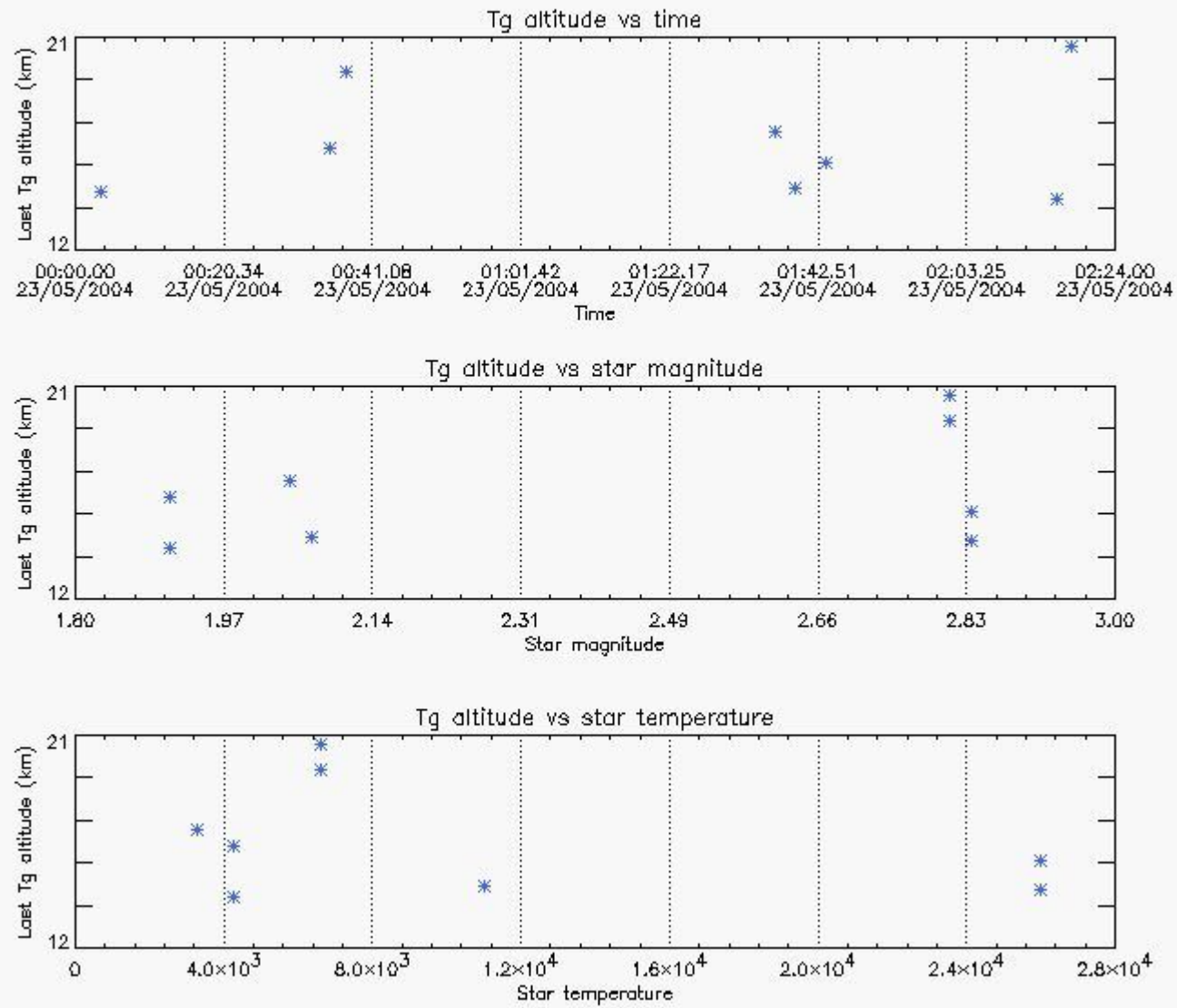
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

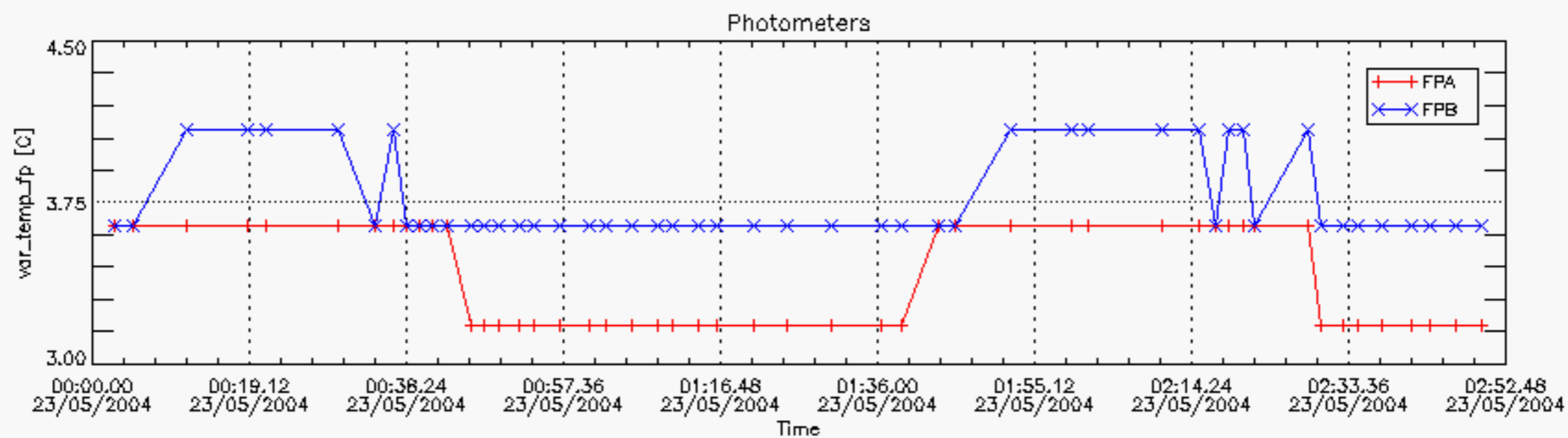
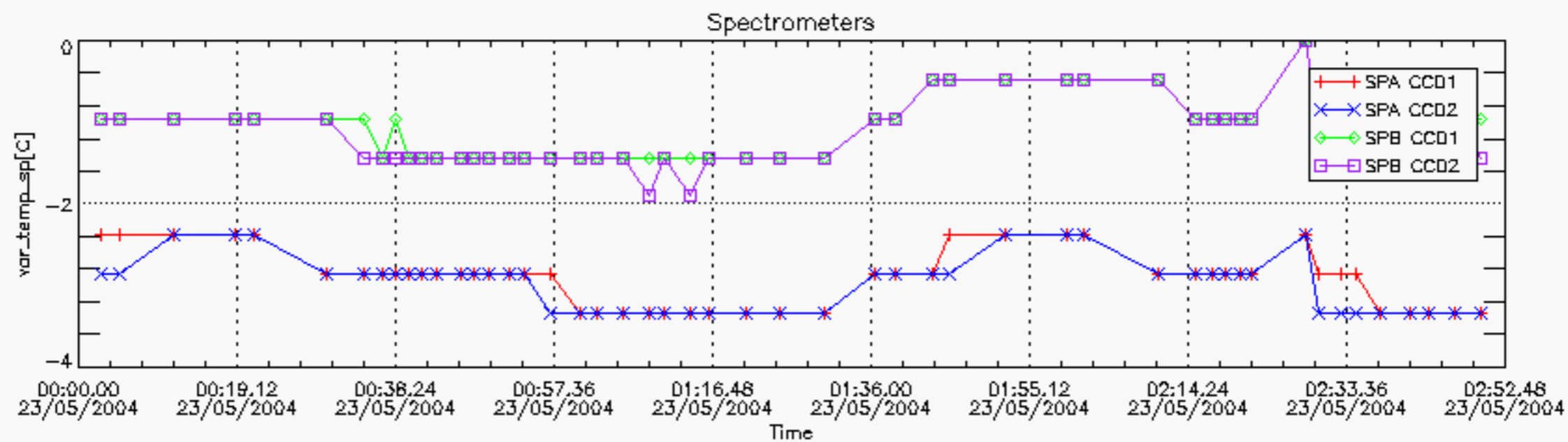
Tangent altitude at which the star is lost

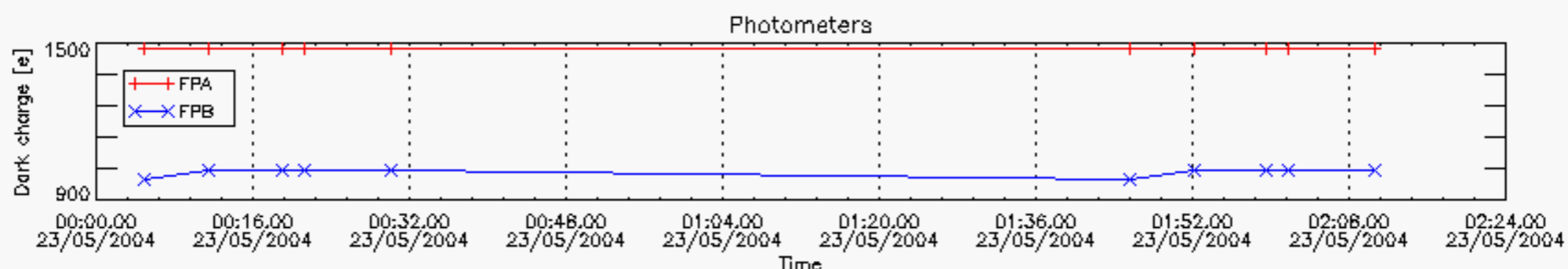
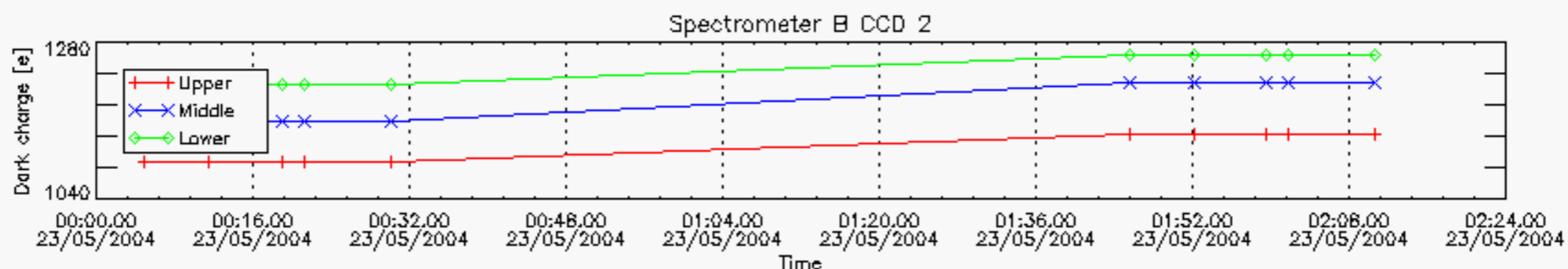
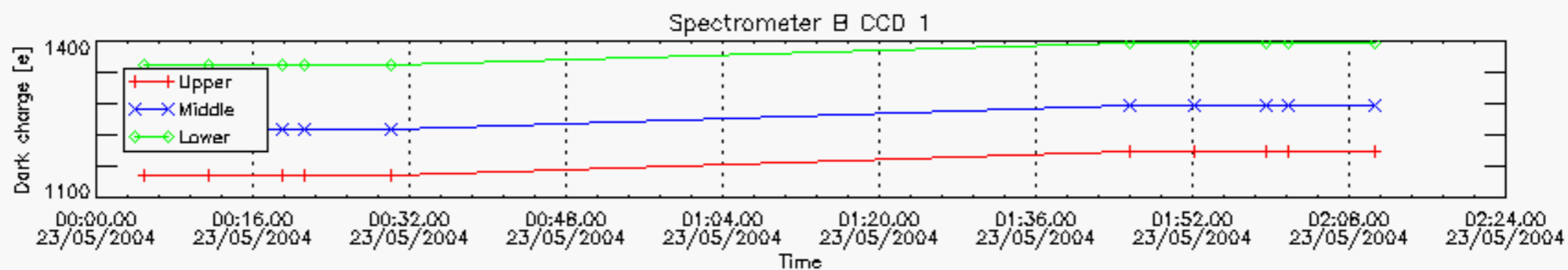
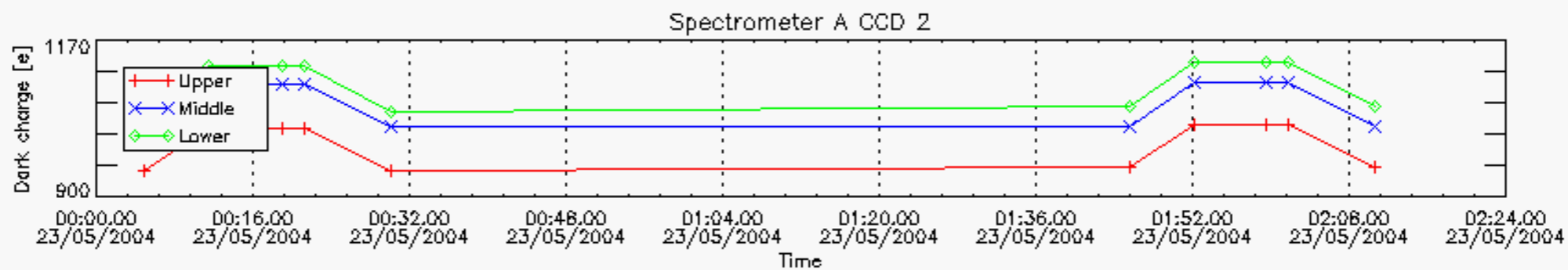
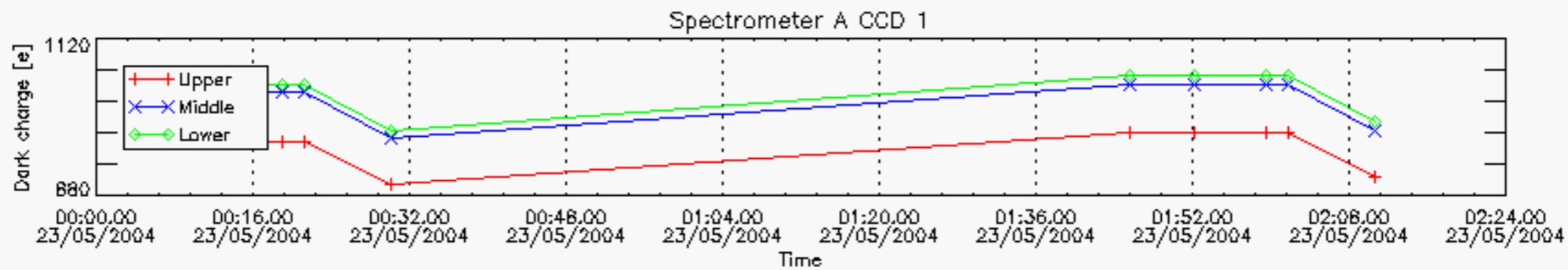


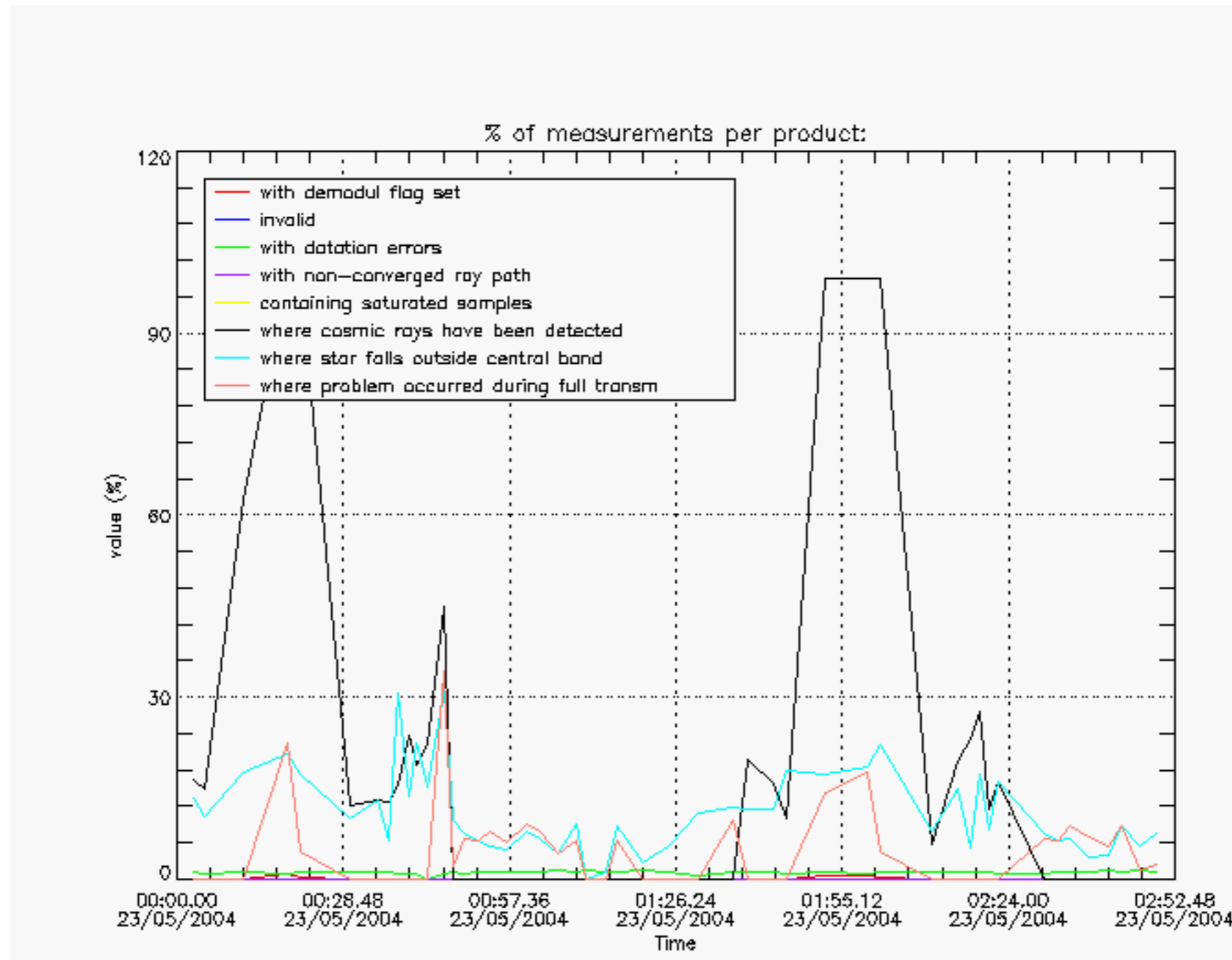
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

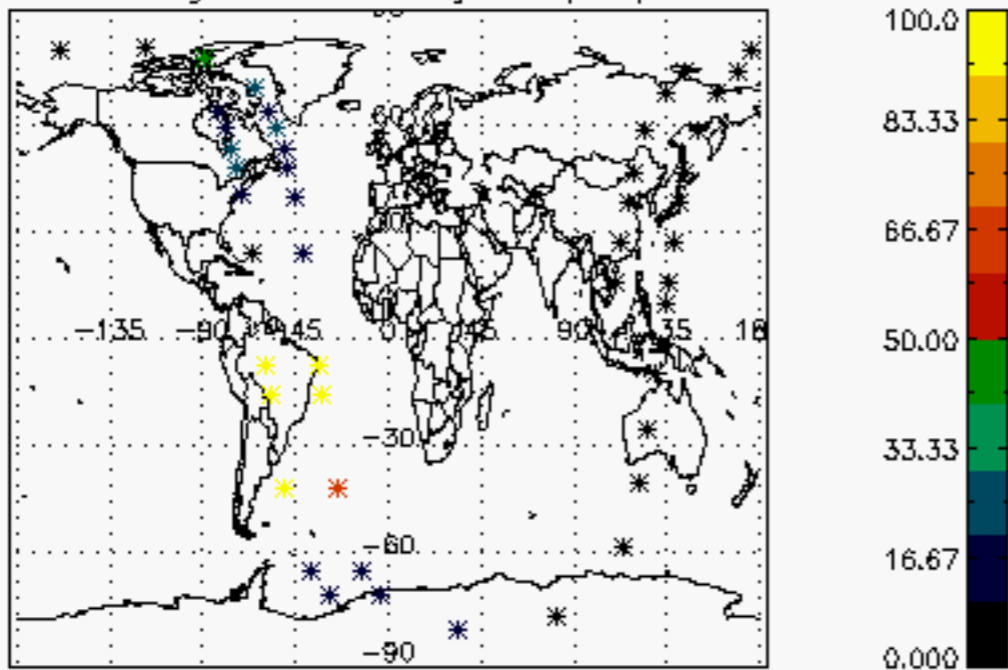
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.0	1447.2	1461.9	1447.4
St. deviation:	4.6608	6.3381	6.4206	7.4931
Maximum:	1586.0	1731.0	1509.0	1500.0
Minimum:	1441.0	1431.0	1437.0	1424.0
Number of data:	12900.	12900.	36650.	36650.



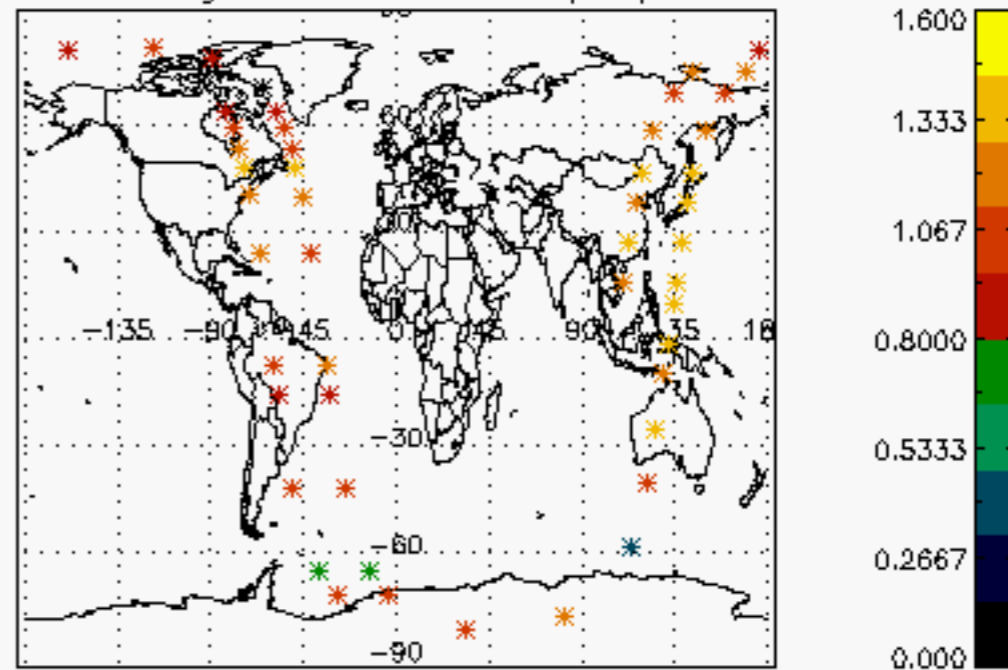




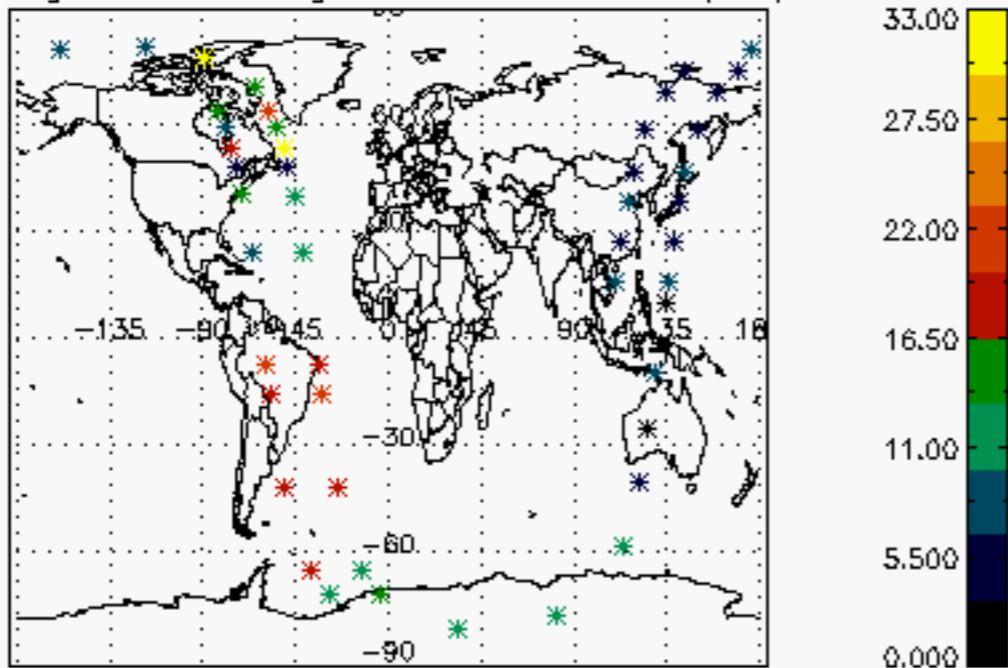
Percentage of cosmic ray hits per profile



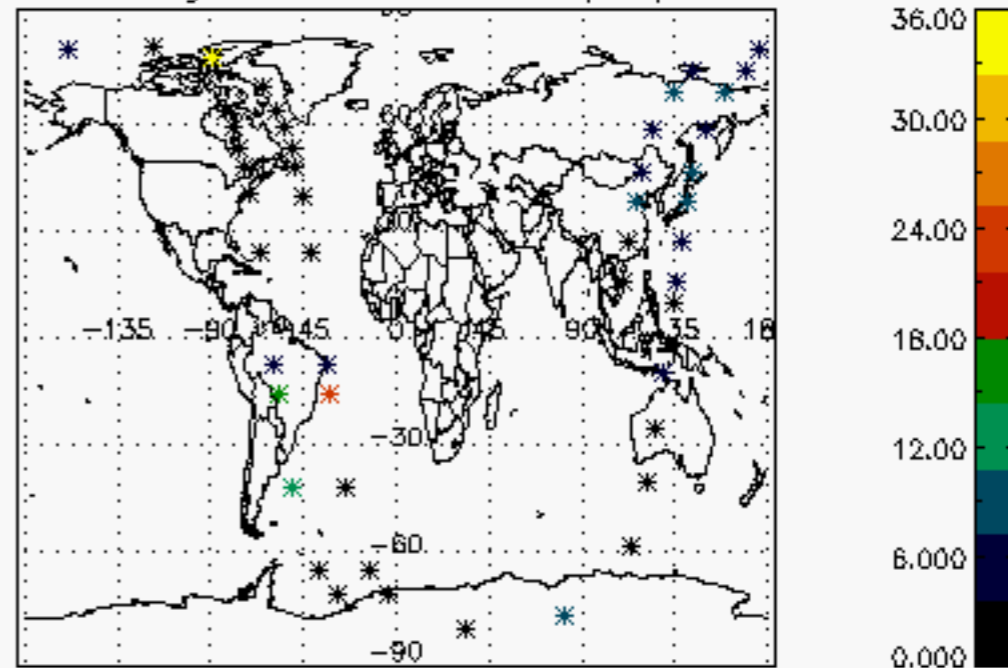
Percentage of datation errors per profile



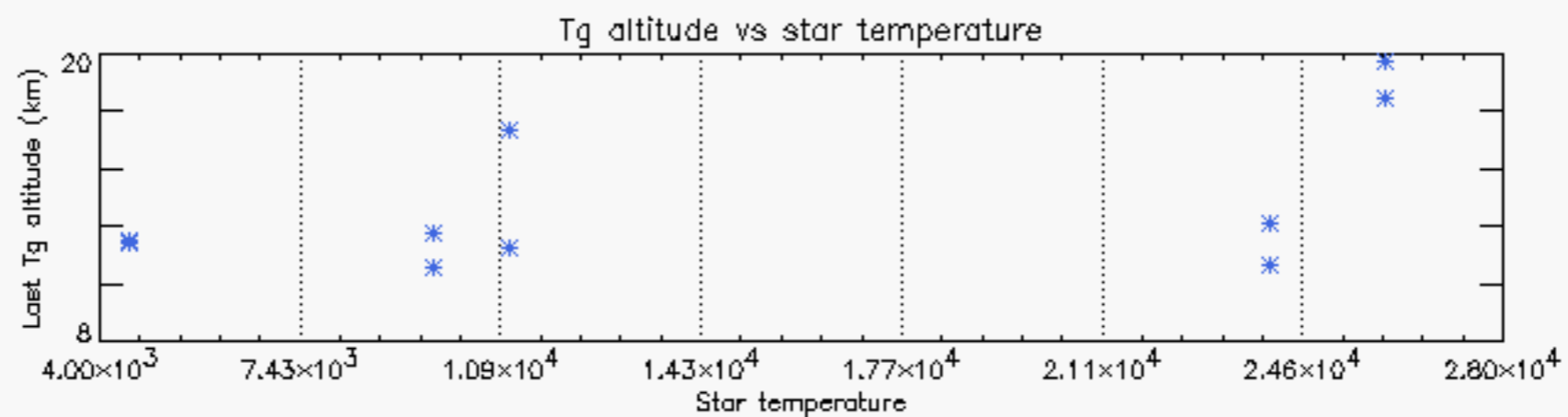
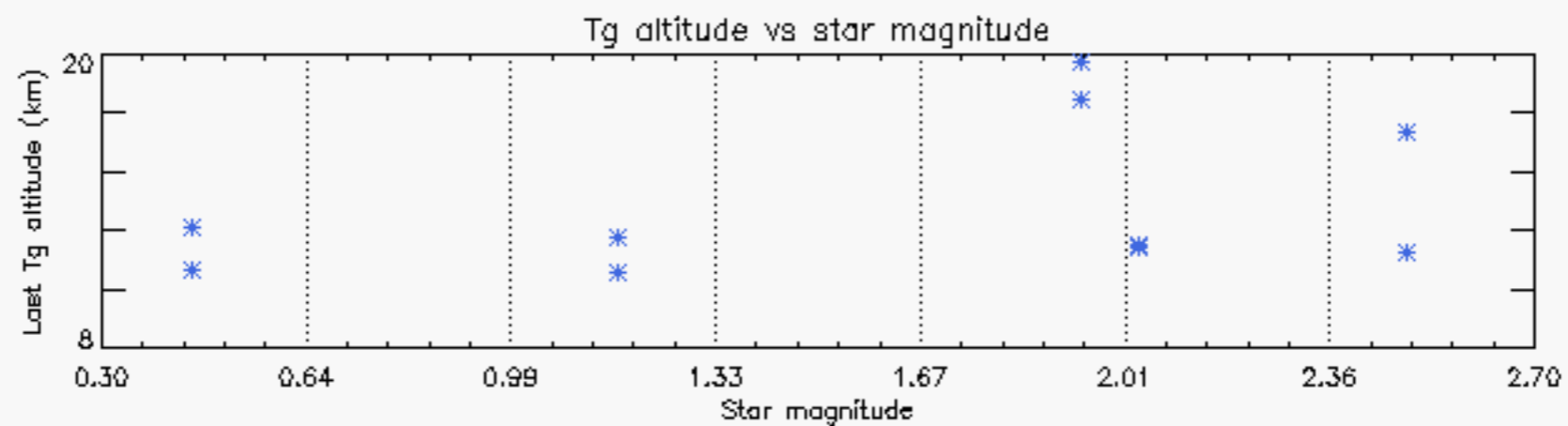
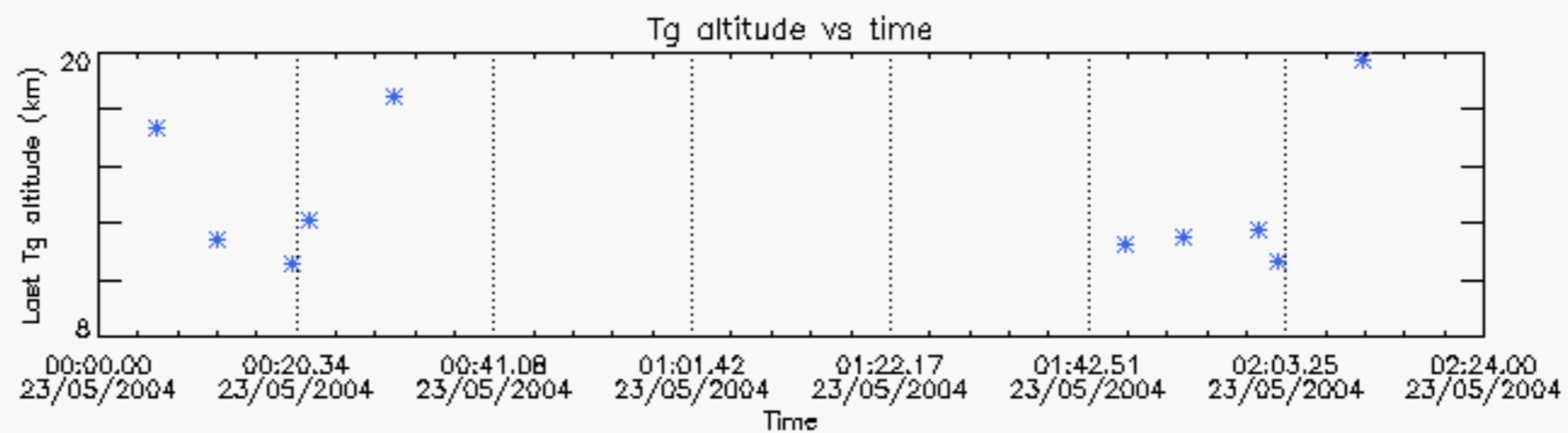
Percentage of star falling outside central band per profile



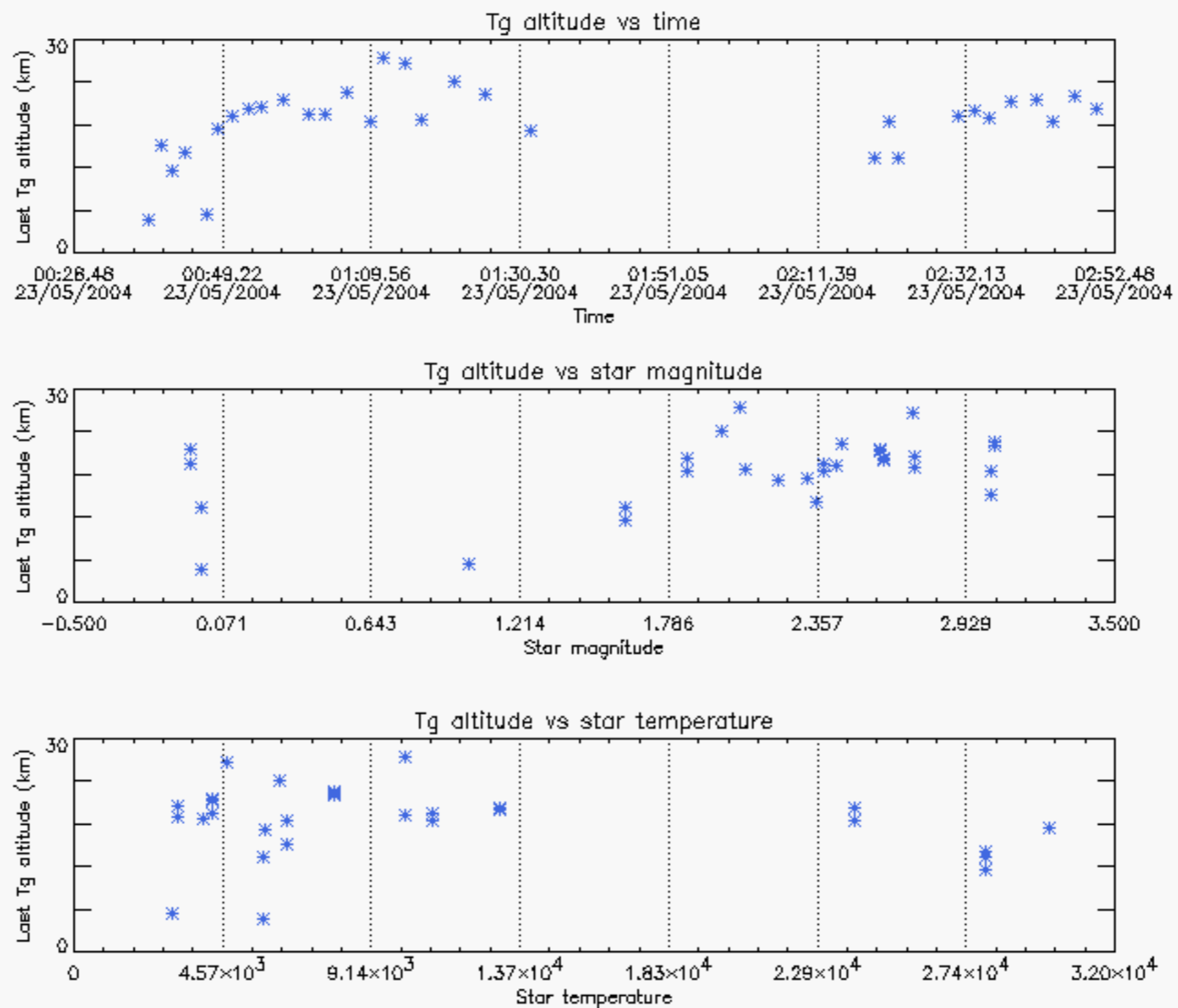
Percentage of saturation errors per profile



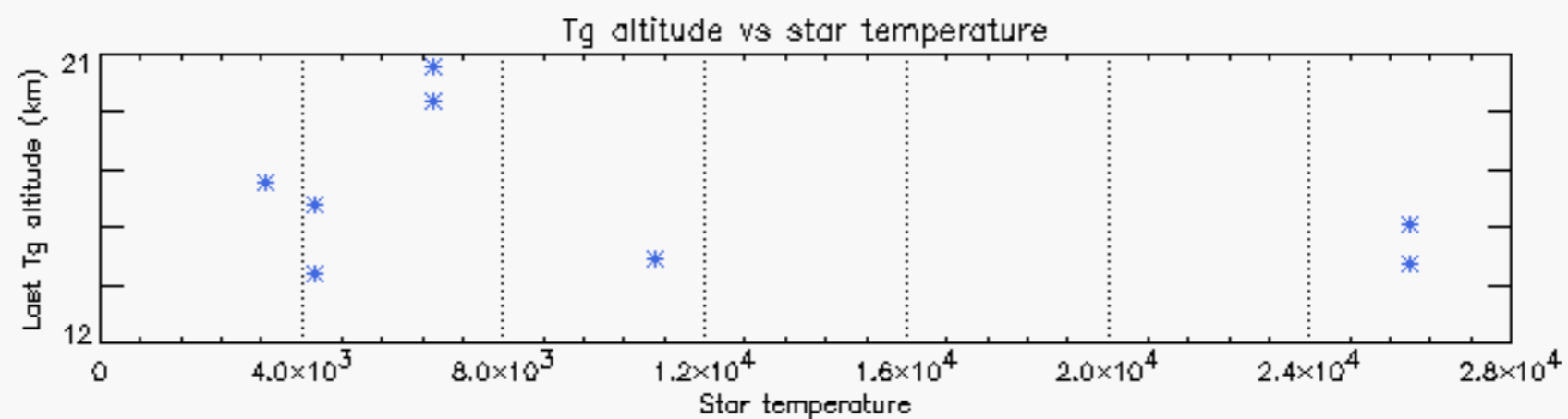
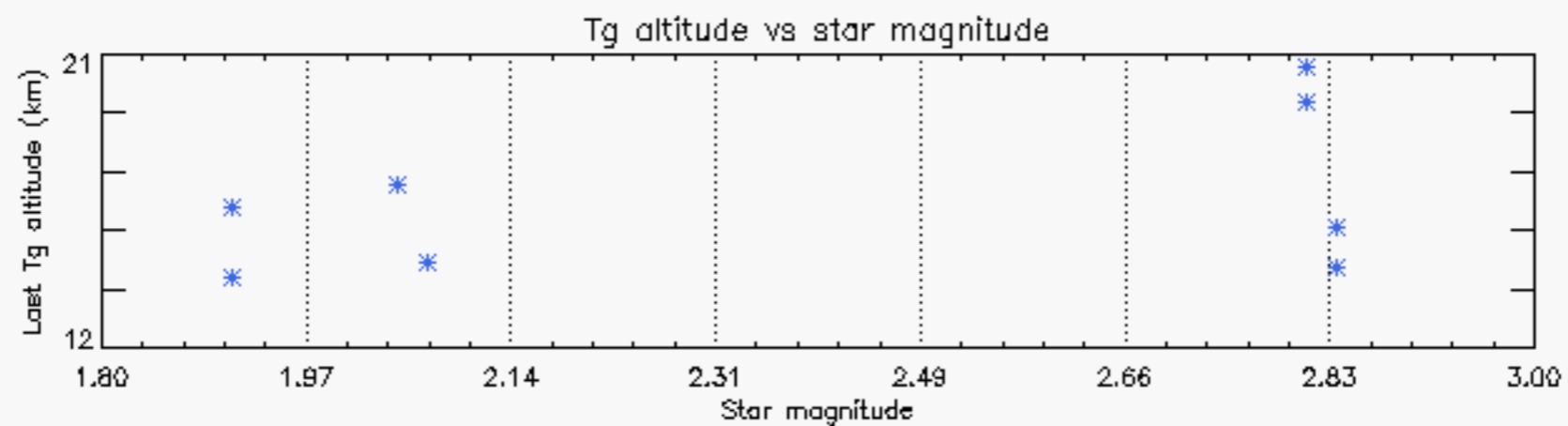
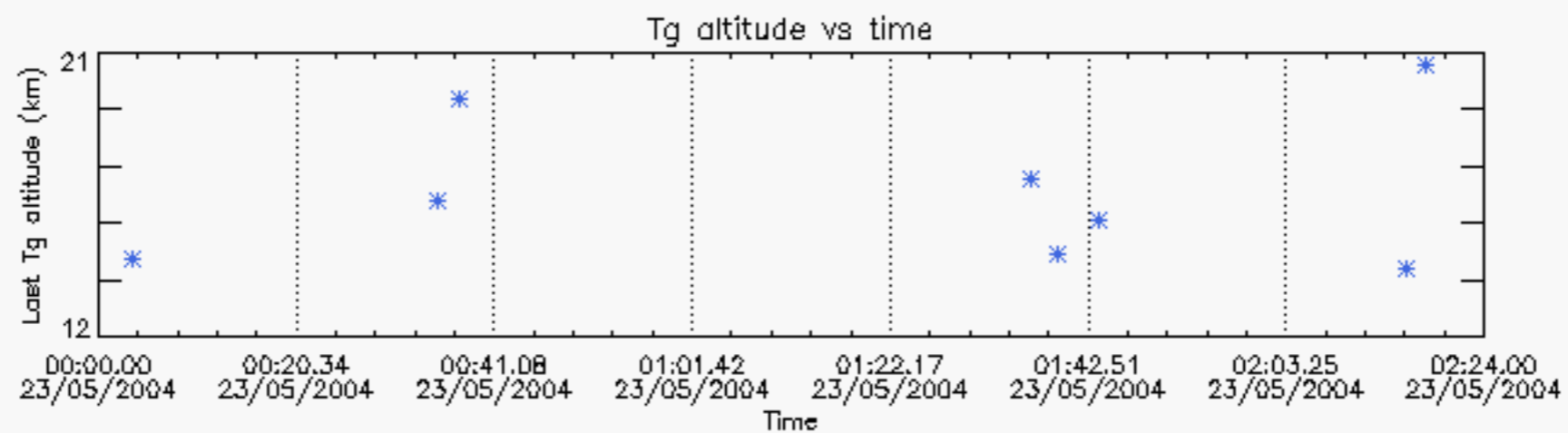
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL__0PNPDK20040501_054516_000060832026_00263_11339_0529.N1

1;	-4310.1;	01-MAY-2004	05:45:16;	Bright;	48.5;	104;	27Bet Lib	;	2.61;	13100;occ;	97;	0;	11339
2;	-4139.5;	01-MAY-2004	05:48:07;	Bright;	36.5;	121;	29Gam Vir	;	2.74;	7200;occ;	73;	0;	11339
3;	-3940.9;	01-MAY-2004	05:51:25;	Bright;	37.0;	138;	47Eps Vir	;	2.83;	4700;occ;	74;	0;	11339
4;	-3804.9;	01-MAY-2004	05:53:41;	Bright;	39.0;	111;	8Eta Boo	;	2.68;	6000;occ;	78;	0;	11339
5;	-3585.7;	01-MAY-2004	05:57:21;	Bright;	43.0;	83;		;	2.38;	11000;occ;	86;	0;	11339
6;	-3477.6;	01-MAY-2004	05:59:09;	Bright;	37.5;	152;	12Alp2CVn	;	2.89;	11000;occ;	75;	0;	11339
7;	-3306.6;	01-MAY-2004	06:02:00;	Bright;	36.0;	174;	52Psi UMa	;	3.00;	4400;occ;	72;	0;	11339
8;	-3203.1;	01-MAY-2004	06:03:43;	Bright;	37.0;	87;	64Gam UMa	;	2.43;	11000;occ;	74;	0;	11339
9;	-3118.2;	01-MAY-2004	06:05:08;	Bright;	38.0;	82;	48Bet UMa	;	2.37;	10600;occ;	76;	0;	11339
10;	-3040.1;	01-MAY-2004	06:06:26;	Bright;	40.0;	36;	50Alp UMa	;	1.80;	6300;occ;	80;	0;	11339
11;	-2819.8;	01-MAY-2004	06:10:06;	Bright;	39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;	11339
12;	-2592.8;	01-MAY-2004	06:13:53;	Bright;	37.0;	49;	1Alp UMi	;	1.99;	6300;occ;	74;	0;	11339
13;	-2211.3;	01-MAY-2004	06:20:15;	Bright;	43.0;	89;	5Alp Cep	;	2.45;	8000;occ;	86;	0;	11339
14;	-2113.5;	01-MAY-2004	06:21:53;	Bright;	38.5;	76;	27Gam Cas	;	2.30;	30000;occ;	77;	0;	11339
15;	-2036.9;	01-MAY-2004	06:23:09;	Bright;	38.5;	68;	18Alp Cas	;	2.22;	4500;occ;	77;	0;	11339
16;	-1900.0;	01-MAY-2004	06:25:26;	Bright;	61.0;	19;	50Alp Cyg	;	1.25;	10500;occ;	122;	0;	11339
17;	-1782.6;	01-MAY-2004	06:27:24;	Bright;	77.5;	66;	37Gam Cyg	;	2.21;	5900;occ;	155;	0;	11339
18;	-1563.0;	01-MAY-2004	06:31:03;	Dark	;	92;	53Eps Cyg	;	2.50;	4500;occ;	152;	0;	11339
19;	-1261.8;	01-MAY-2004	06:36:04;	Dark	;	90;	54Alp Peg	;	2.49;	11000;occ;	101;	0;	11339
20;	-998.9;	01-MAY-2004	06:40:27;	Dark	;	61;	8Eps Peg	;	2.10;	3900;occ;	146;	0;	11339
21;	-792.7;	01-MAY-2004	06:43:53;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	90;	0;	11339
22;	-628.3;	01-MAY-2004	06:46:38;	Dark	;	154;	22Bet Aqr	;	2.90;	5700;occ;	140;	0;	11339
23;	-490.7;	01-MAY-2004	06:48:56;	Dark	;	18;	24Alp PsA	;	1.17;	9700;occ;	93;	0;	11339
24;	-361.7;	01-MAY-2004	06:51:05;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	11339
25;	-233.8;	01-MAY-2004	06:53:12;	Dark	;	172;	Gam Gru	;	3.00;	13100;occ;	87;	0;	11339
26;	-144.2;	01-MAY-2004	06:54:42;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	92;	0;	11339
27;	11.1;	01-MAY-2004	06:57:17;	Dark	;	148;	Alp Tuc	;	2.88;	4100;occ;	102;	0;	11340
28;	185.4;	01-MAY-2004	07:00:12;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	85;	0;	11340
29;	579.0;	01-MAY-2004	07:06:45;	Dark	;	43;	Alp TrA	;	1.91;	4250;occ;	86;	0;	11340
30;	698.6;	01-MAY-2004	07:08:45;	Dark	;	38;	20Eps Sgr	;	1.84;	11000;occ;	145;	0;	11340
31;	871.5;	01-MAY-2004	07:11:38;	Dark	;	10;	Bet Cen	;	0.61;	28000;occ;	84;	0;	11340
32;	999.1;	01-MAY-2004	07:13:45;	Dark	;	77;	Eps Cen	;	2.30;	28000;occ;	79;	0;	11340
33;	1106.1;	01-MAY-2004	07:15:32;	Dark	;	64;	Gam Cen	;	2.20;	10600;occ;	83;	0;	11340
34;	1267.9;	01-MAY-2004	07:18:14;	Dark	;	16;	21Alp Sco	;	1.02;	3000;occ;	140;	0;	11340
35;	1401.7;	01-MAY-2004	07:20:28;	Dark	;	80;	7Del Sco	;	2.32;	30000;occ;	124;	0;	11340
36;	1590.3;	01-MAY-2004	07:23:37;	Bright;	46.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	92;	0;	11340
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2;	-4445.5;	02-MAY-2004	00:09:36;	Bright;	46.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	93;	0;	11350	
3;	-4311.3;	02-MAY-2004	00:11:50;	Bright;	50.0;	104;	27Bet Lib	;	2.61;	13100;occ;	100;	0;	11350	
4;	-4137.9;	02-MAY-2004	00:14:43;	Bright;	37.5;	121;	29Gam Vir	;	2.74;	7200;occ;	75;	0;	11350	
5;	-3940.7;	02-MAY-2004	00:18:01;	Bright;	36.5;	138;	47Eps Vir	;	2.83;	4700;occ;	73;	0;	11350	
6;	-3806.8;	02-MAY-2004	00:20:14;	Bright;	39.5;	111;	8Eta Boo	;	2.68;	6000;occ;	79;	0;	11350	
7;	-3591.2;	02-MAY-2004	00:23:50;	Bright;	46.5;	83;		;	2.38;	11000;occ;	93;	0;	11350	
8;	-3477.6;	02-MAY-2004	00:25:44;	Bright;	38.5;	152;	12Alp2CVn	;	2.89;	11000;occ;	77;	0;	11350	
9;	-3303.3;	02-MAY-2004	00:28:38;	Bright;	53.0;	174;	52Psi UMa	;	3.00;	4400;occ;	106;	0;	11350	
10;	-3201.4;	02-MAY-2004	00:30:20;	Bright;	36.5;	87;	64Gam UMa	;	2.43;	11000;occ;	73;	0;	11350	
11;	-3115.0;	02-MAY-2004	00:31:46;	Bright;	38.5;	82;	48Bet UMa	;	2.37;	10600;occ;	77;	0;	11350	
12;	-3037.4;	02-MAY-2004	00:33:04;	Bright;	39.0;	36;	50Alp UMa	;	1.80;	6300;occ;	78;	0;	11350	
13;	-2822.5;	02-MAY-2004	00:36:39;	Bright;	39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;	11350	
14;	-2592.5;	02-MAY-2004	00:40:29;	Bright;	33.5;	49;	1Alp UMi	;	1.99;	6300;occ;	67;	0;	11350	
15;	-2214.5;	02-MAY-2004	00:46:47;	Bright;	41.5;	89;	5Alp Cep	;	2.45;	8000;occ;	83;	0;	11350	
16;	-2116.1;	02-MAY-2004	00:48:25;	Bright;	46.0;	110;	37Del Cas	;	2.68;	8900;occ;	92;	0;	11350	
17;	-2035.2;	02-MAY-2004	00:49:46;	Bright;	37.0;	68;	18Alp Cas	;	2.22;	4500;occ;	74;	0;	11350	
18;	-1904.4;	02-MAY-2004	00:51:57;	Bright;	62.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	125;	0;	11350	
19;	-1786.9;	02-MAY-2004	00:53:54;	Bright;	78.0;	66;	37Gam Cyg	;	2.21;	5900;occ;	156;	0;	11350	
20;	-1562.5;	02-MAY-2004	00:57:39;	Dark	;	82.5;	92;	53Eps Cyg	;	2.50;	4500;occ;	165;	0;	11350
21;	-1256.9;	02-MAY-2004	01:02:44;	Dark	;	47.0;	90;	54Alp Peg	;	2.49;	11000;occ;	94;	0;	11350
22;	-988.7;	02-MAY-2004	01:07:13;	Dark	;	68.5;	61;	8Eps Peg	;	2.10;	3900;occ;	137;	0;	11350
23;	-791.9;	02-MAY-2004	01:10:29;	Dark	;	43.5;	52;	16Bet Cet	;	2.04;	4500;occ;	87;	0;	11350
24;	-612.5;	02-MAY-2004	01:13:29;	Dark	;	66.0;	154;	22Bet Aqr	;	2.90;	5700;occ;	132;	0;	11350
25;	-485.1;	02-MAY-2004	01:15:36;	Dark	;	44.0;	18;	24Alp PsA	;	1.17;	9700;occ;	88;	0;	11350
26;	-354.9;	02-MAY-2004	01:17:46;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	11350
27;	-138.3;	02-MAY-2004	01:21:23;	Dark	;	45.0;	31;	Alp Gru	;	1.73;	15200;occ;	90;	0;	11350
28;	191.8;	02-MAY-2004	01:26:53;	Dark	;	43.0;	45;	Alp Pav	;	1.94;	26000;occ;	86;	0;	11351
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31; 835.8; 02-MAY-2004 01:37:37; Dark ; 50.5; 4; Alp1Cen ;-0.01; 5800;occ; 101; 0;11351
32; 925.8; 02-MAY-2004 01:39:07; Dark ; 39.0; 20; Bet Cru ; 1.25; 30000;occ; 78; 0;11351
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34; 1133.8; 02-MAY-2004 01:42:35; Dark ; 43.0; 81; Eta Cen ; 2.36; 28000;occ; 86; 0;11351
35; 1272.7; 02-MAY-2004 01:44:54; Dark ; 72.5; 16; 21Alp Sco ; 1.02; 3000;occ; 145; 0;11351
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 2;-4445.3; 02-MAY-2004 01:50:12; Bright; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;11351
 3;-4311.5; 02-MAY-2004 01:52:26; Bright; 49.0; 104; 27Bet Lib ; 2.61; 13100;occ; 98; 0;11351
 4;-4138.7; 02-MAY-2004 01:55:18; Bright; 39.0; 121; 29Gam Vir ; 2.74; 7200;occ; 78; 0;11351
 5;-3940.8; 02-MAY-2004 01:58:36; Bright; 37.5; 138; 47Eps Vir ; 2.83; 4700;occ; 75; 0;11351
 6;-3807.2; 02-MAY-2004 02:00:50; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;11351
 7;-3591.9; 02-MAY-2004 02:04:25; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;11351
 8;-3477.8; 02-MAY-2004 02:06:19; Bright; 36.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 72; 0;11351
 9;-3302.8; 02-MAY-2004 02:09:14; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;11351
10;-3201.8; 02-MAY-2004 02:10:55; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;11351
11;-3114.5; 02-MAY-2004 02:12:23; Bright; 35.5; 82; 48Bet UMa ; 2.37; 10600;occ; 71; 0;11351
12;-3037.7; 02-MAY-2004 02:13:39; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;11351
13;-2823.0; 02-MAY-2004 02:17:14; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;11351
14;-2593.1; 02-MAY-2004 02:21:04; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;11351
15;-2215.3; 02-MAY-2004 02:27:22; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;11351
16;-2116.8; 02-MAY-2004 02:29:00; Bright; 52.0; 110; 37Del Cas ; 2.68; 8900;occ; 104; 0;11351
17;-2035.6; 02-MAY-2004 02:30:21; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;11351
18;-1904.7; 02-MAY-2004 02:32:32; Bright; 60.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 121; 0;11351
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20;-1562.4; 02-MAY-2004 02:38:15; Dark ; 85.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 171; 0;11351
21;-1257.0; 02-MAY-2004 02:43:20; Dark ; 50.0; 90; 54Alp Peg ; 2.49; 11000;occ; 100; 0;11351
22; -987.4; 02-MAY-2004 02:47:50; Dark ; 70.0; 61; 8Eps Peg ; 2.10; 3900;occ; 140; 0;11351
23; -792.0; 02-MAY-2004 02:51:05; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;11351
24; -611.1; 02-MAY-2004 02:54:06; Dark ; 65.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 130; 0;11351
25; -484.8; 02-MAY-2004 02:56:12; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;11351
26; -354.2; 02-MAY-2004 02:58:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11351
27; -224.8; 02-MAY-2004 03:00:32; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;11351
28; -137.6; 02-MAY-2004 03:02:00; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;11351
29; 191.9; 02-MAY-2004 03:07:29; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;11352
30; 582.0; 02-MAY-2004 03:13:59; Dark ; 44.0; 43; Alp TrA ; 1.91; 4250;occ; 88; 0;11352
31; 712.1; 02-MAY-2004 03:16:09; Dark ; 43.0; 134; Bet TrA ; 2.81; 6600;occ; 86; 0;11352
32; 836.1; 02-MAY-2004 03:18:13; Dark ; 46.5; 4; Alp1Cen ;-0.01; 5800;occ; 93; 0;11352
33; 925.6; 02-MAY-2004 03:19:43; Dark ; 42.0; 20; Bet Cru ; 1.25; 30000;occ; 84; 0;11352
34; 1039.8; 02-MAY-2004 03:21:37; Dark ; 44.5; 78; Alp Lup ; 2.30; 28000;occ; 89; 0;11352
35; 1134.1; 02-MAY-2004 03:23:11; Dark ; 41.5; 81; Eta Cen ; 2.36; 28000;occ; 83; 0;11352
36; 1273.8; 02-MAY-2004 03:25:31; Dark ; 70.5; 16; 21Alp Sco ; 1.02; 3000;occ; 141; 0;11352
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 3;-4140.5; 02-MAY-2004 03:35:53; Bright; 41.0; 121; 29Gam Vir ; 2.74; 7200;occ; 82; 0;11352
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 5;-3807.8; 02-MAY-2004 03:41:25; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;11352
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 7;-3478.3; 02-MAY-2004 03:46:55; Bright; 36.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 73; 0;11352
 8;-3302.5; 02-MAY-2004 03:49:51; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;11352
 9;-3201.2; 02-MAY-2004 03:51:32; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;11352
10;-3114.4; 02-MAY-2004 03:52:59; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;11352
11;-3037.4; 02-MAY-2004 03:54:16; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;11352
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15;-2116.2; 02-MAY-2004 04:09:37; Bright; 52.0; 110; 37Del Cas ; 2.68; 8900;occ; 104; 0;11352
16;-2035.5; 02-MAY-2004 04:10:58; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;11352
17;-1905.3; 02-MAY-2004 04:13:08; Bright; 62.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 125; 0;11352
18;-1787.3; 02-MAY-2004 04:15:06; Bright; 82.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 164; 0;11352
19;-1562.3; 02-MAY-2004 04:18:51; Dark ; 87.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 174; 0;11352
20;-1256.6; 02-MAY-2004 04:23:57; Dark ; 48.0; 90; 54Alp Peg ; 2.49; 11000;occ; 96; 0;11352
21; -986.8; 02-MAY-2004 04:28:26; Dark ; 71.5; 61; 8Eps Peg ; 2.10; 3900;occ; 143; 0;11352
22; -791.2; 02-MAY-2004 04:31:42; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;11352

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25; -353.6; 02-MAY-2004 04:39:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11352
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28; 192.6; 02-MAY-2004 04:48:06; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;11353
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31; 836.3; 02-MAY-2004 04:58:49; Dark ; 50.5; 4; Alp1Cen ; -0.01; 5800;occ; 101; 0;11353
32; 925.9; 02-MAY-2004 05:00:19; Dark ; 42.5; 20; Bet Cru ; 1.25; 30000;occ; 85; 0;11353
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23;-1253.2; 02-MAY-2004 19:29:23; Dark ; 48.5; 90; 54Alp Peg ; 2.49; 11000;occ; 97; 0;11361
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25; -790.1; 02-MAY-2004 19:37:06; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;11361
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28; -216.5; 02-MAY-2004 19:46:40; Dark ; 43.5; 172; Gam Gru ; 3.00; 13100;occ; 87; 0;11361
29; -131.3; 02-MAY-2004 19:48:05; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;11361
30; 19.6; 02-MAY-2004 19:50:36; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;11362
31; 199.9; 02-MAY-2004 19:53:36; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;11362
32; 587.0; 02-MAY-2004 20:00:04; Dark ; 43.5; 43; Alp TrA ; 1.91; 4250;occ; 87; 0;11362
33; 719.2; 02-MAY-2004 20:02:16; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;11362
34; 839.4; 02-MAY-2004 20:04:16; Dark ; 52.0; 4; Alp1Cen ;-0.01; 5800;occ; 104; 0;11362
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/data4_2/GOMOS/level0/GOM_NL_0PNPDK20040502_200416_000060852026_00286_11362_0548.N1
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3;-4990.0; 02-MAY-2004 20:07:42; Dark ; 43.5; 78; Alp Lup ; 2.30; 28000;occ; 87; 0;11362
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5;-4758.0; 02-MAY-2004 20:11:34; Dark ; 73.5; 16; 21Alp Sco ; 1.02; 3000;occ; 147; 0;11362
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7;-4495.4; 02-MAY-2004 20:15:57; Bright; 40.5; 106; 9Bet Crv ; 2.65; 5600;occ; 81; 0;11362
8;-4311.0; 02-MAY-2004 20:19:01; Bright; 48.5; 104; 27Bet Lib ; 2.61; 13100;occ; 97; 0;11362

```

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12;-3596.6; 02-MAY-2004 20:30:56; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;11362
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26; -978.4; 02-MAY-2004 21:14:34; Dark ; 71.0; 61; 8Eps Peg ; 2.10; 3900;occ; 142; 0;11362
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31; -130.5; 02-MAY-2004 21:28:42; Dark ; 41.0; 31; Alp Gru ; 1.73; 15200;occ; 82; 0;11362
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33; 200.4; 02-MAY-2004 21:34:13; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;11363
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35; 719.2; 02-MAY-2004 21:42:52; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;11363
36; 839.5; 02-MAY-2004 21:44:52; Dark ; 50.5; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;11363

/data4_2/GOMOS/level0/GOM_NL_0PNPDE20040503_025632_000060722026_00290_11366_0100.N1

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31; 720.3; 03-MAY-2004 04:25:16; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;11367
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33; 1063.4; 03-MAY-2004 04:30:59; Dark ; 58.5; 75; 26Eps Sco ; 2.29; 4250;occ; 117; 0;11367
34; 1281.5; 03-MAY-2004 04:34:37; Dark ; 71.0; 16; 21Alp Sco ; 1.02; 3000;occ; 142; 0;11367
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/data4_2/GOMOS/level0/GOM_NL_0PNPDE20040503_043741_000061142026_00291_11367_0101.N1

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30; 588.7; 03-MAY-2004 06:03:41; Dark ; 45.5; 43; Alp TrA ; 1.91; 4250;occ; 91; 0;11368
31; 720.9; 03-MAY-2004 06:05:53; Dark ; 41.0; 134; Bet TrA ; 2.81; 6600;occ; 82; 0;11368
32; 840.5; 03-MAY-2004 06:07:52; Dark ; 52.0; 4; Alp1Cen ;-0.01; 5800;occ; 104; 0;11368
33; 1064.1; 03-MAY-2004 06:11:36; Dark ; 60.5; 75; 26Eps Sco ; 2.29; 4250;occ; 121; 0;11368
34; 1281.6; 03-MAY-2004 06:15:14; Dark ; 69.5; 16; 21Alp Sco ; 1.02; 3000;occ; 139; 0;11368
35; 1409.1; 03-MAY-2004 06:17:21; Dark ; 64.5; 80; 7Del Sco ; 2.32; 30000;occ; 129; 0;11368
36; 1541.8; 03-MAY-2004 06:19:34; Bright; 2.0; 106; 9Bet Crv ; 2.65; 5600;occ; 4; 0;11368
/data4_2/GOMOS/level0/GOM_NL__0PNPDK20040503_061934_000060742026_00292_11368_0549.N1
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2;-4311.1; 03-MAY-2004 06:22:37; Bright; 47.5; 104; 27Bet Lib ; 2.61; 13100;occ; 95; 0;11368
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7;-3477.2; 03-MAY-2004 06:36:31; Bright; 36.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 72; 0;11368
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27; 22.1; 03-MAY-2004 07:34:50; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;11369
28; 203.7; 03-MAY-2004 07:37:52; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;11369
29; 589.0; 03-MAY-2004 07:44:17; Dark ; 48.0; 43; Alp TrA ; 1.91; 4250;occ; 96; 0;11369
30; 721.3; 03-MAY-2004 07:46:29; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;11369
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```

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34; 1421.2; 06-MAY-2004 13:05:41; Dark ; 54.0; 80; 7Del Sco ; 2.32; 30000;occ; 108; 0;11415
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```

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30; 704.9; 07-MAY-2004 03:59:08; Dark ; 38.5; 145; Gam TrA ; 2.87; 10600;occ; 77; 0;11424
31; 854.1; 07-MAY-2004 04:01:37; Dark ; 45.5; 4; Alp1Cen ; -0.01; 5800;occ; 91; 0;11424
32; 1063.8; 07-MAY-2004 04:05:07; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;11424
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27; 608.7; 07-MAY-2004 07:18:44; Dark ; 42.5; 43; Alp TrA ; 1.91; 4250;occ; 85; 0;11426
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27; 855.1; 07-MAY-2004 09:03:26; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;11427
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31; 1425.7; 07-MAY-2004 09:12:57; Dark ; 54.5; 80; 7Del Sco ; 2.32; 30000;occ; 109; 0;11427
32; 1562.4; 07-MAY-2004 09:15:14; Bright; 80.5; 86; 35Eta Oph ; 2.43; 10200;occ; 161; 0;11427
33; 1724.0; 07-MAY-2004 09:17:55; Bright; 44.5; 104; 27Bet Lib ; 2.61; 13100;occ; 89; 0;11427
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12;-2884.5; 07-MAY-2004 11:22:19; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;11428
13;-2591.9; 07-MAY-2004 11:27:11; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;11428
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16;-2030.0; 07-MAY-2004 11:36:33; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;11428
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19;-1229.5; 07-MAY-2004 11:49:54; Dark ; 49.0; 90; 54Alp Peg ; 2.49; 11000;occ; 98; 0;11428
20; -779.7; 07-MAY-2004 11:57:23; Dark ; 41.5; 52; 16Bet Cet ; 2.04; 4500;occ; 83; 0;11428
21; -440.9; 07-MAY-2004 12:03:02; Dark ; 51.0; 18; 24Alp PsA ; 1.17; 9700;occ; 102; 0;11428
22; -350.9; 07-MAY-2004 12:04:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11428
23; -164.9; 07-MAY-2004 12:07:38; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 0;11428
24; -90.2; 07-MAY-2004 12:08:53; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;11428

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25; 244.6; 07-MAY-2004 12:14:28; Dark ; 45.5; 45; Alp Pav ; 1.94; 26000;occ; 91; 0;11429
26; 609.0; 07-MAY-2004 12:20:32; Dark ; 44.0; 43; Alp TrA ; 1.91; 4250;occ; 88; 0;11429
27; 694.0; 07-MAY-2004 12:21:57; Dark ; 49.5; 141; Bet Ara ; 2.84; 4600;occ; 99; 0;11429
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21;-1227.9; 07-MAY-2004 15:11:07; Dark ; 52.5; 90; 54Alp Peg ; 2.49; 11000;occ; 105; 0;11430
22; -778.6; 07-MAY-2004 15:18:36; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;11430
23; -439.5; 07-MAY-2004 15:24:16; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;11430
24; -348.0; 07-MAY-2004 15:25:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11430

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27; 46.8; 07-MAY-2004 15:32:22; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;11431
28; 245.3; 07-MAY-2004 15:35:40; Dark ; 45.0; 45; Alp Pav ; 1.94; 26000;occ; 90; 0;11431
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33; 1156.9; 07-MAY-2004 15:50:52; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;11431
34; 1308.2; 07-MAY-2004 15:53:23; Dark ; 42.5; 16; 21Alp Sco ; 1.02; 3000;occ; 85; 0;11431
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3; -4473.4; 07-MAY-2004 15:57:38; Bright; 79.0; 86; 35Eta Oph ; 2.43; 10200;occ; 158; 0;11431
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19; -2242.8; 07-MAY-2004 18:15:24; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;11432
20; -2103.9; 07-MAY-2004 18:17:43; Bright; 46.5; 76; 27Gam Cas ; 2.30; 30000;occ; 93; 0;11432
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22; -1824.1; 07-MAY-2004 18:22:23; Bright; 88.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 176; 0;11432
23; -1557.9; 07-MAY-2004 18:26:49; Dark ; 109.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 218; 0;11432

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24;-1227.5; 07-MAY-2004 18:32:20; Dark ; 49.5; 90; 54Alp Peg ; 2.49; 11000;occ; 99; 0;11432
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26; -437.9; 07-MAY-2004 18:45:29; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;11432
27; -345.1; 07-MAY-2004 18:47:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11432
28; -162.6; 07-MAY-2004 18:50:04; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;11432
29; -87.2; 07-MAY-2004 18:51:20; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;11432
30; 47.9; 07-MAY-2004 18:53:35; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;11433
31; 247.5; 07-MAY-2004 18:56:55; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;11433
32; 610.7; 07-MAY-2004 19:02:58; Dark ; 43.5; 43; Alp TrA ; 1.91; 4250;occ; 87; 0;11433
33; 707.0; 07-MAY-2004 19:04:34; Dark ; 37.0; 145; Gam TrA ; 2.87; 10600;occ; 74; 0;11433
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4;-4727.0; 07-MAY-2004 19:14:36; Dark ; 61.5; 16; 21Alp Sco ; 1.02; 3000;occ; 123; 0;11433
5;-4609.2; 07-MAY-2004 19:16:34; Dark ; 68.0; 80; 7Del Sco ; 2.32; 30000;occ; 136; 0;11433
6;-4473.2; 07-MAY-2004 19:18:50; Bright; 81.5; 86; 35Eta Oph ; 2.43; 10200;occ; 163; 0;11433
7;-4312.4; 07-MAY-2004 19:21:31; Bright; 46.0; 104; 27Bet Lib ; 2.61; 13100;occ; 92; 0;11433
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12;-3473.5; 07-MAY-2004 19:35:30; Bright; 38.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 76; 0;11433
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14;-3195.9; 07-MAY-2004 19:40:07; Bright; 36.5; 55; 79Zet UMa ; 2.06; 10200;occ; 73; 0;11433
15;-3087.4; 07-MAY-2004 19:41:56; Bright; 38.0; 82; 48Bet UMa ; 2.37; 10600;occ; 76; 0;11433
16;-3014.1; 07-MAY-2004 19:43:09; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;11433
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22;-2029.0; 07-MAY-2004 19:59:34; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;11433
23;-1824.6; 07-MAY-2004 20:02:58; Bright; 92.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 185; 0;11433
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32; 248.0; 07-MAY-2004 20:37:31; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;11434
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22;-2029.3; 07-MAY-2004 21:40:10; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;11434
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32; 248.8; 07-MAY-2004 22:18:08; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;11435
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35; 855.5; 07-MAY-2004 22:28:14; Dark ; 52.0; 4; Alp1Cen ;-0.01; 5800;occ; 104; 0;11435
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12;-2890.8; 08-MAY-2004 05:48:48; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;11439
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16;-2104.4; 08-MAY-2004 06:01:54; Bright; 46.5; 76; 27Gam Cas ; 2.30; 30000;occ; 93; 0;11439
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26; -18.7; 14-MAY-2004 15:11:11; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;11530
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23; -462.4; 14-MAY-2004 16:44:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11531
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27;-5.8; 24-MAY-2004 16:37:41; Dark ; 57.5; 63; Bet Gru ; 2.15; 2800;occ; 115; 0;11674
28; 221.3; 24-MAY-2004 16:41:28; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;11675
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34; 1096.3; 24-MAY-2004 16:56:03; Dark ; 50.5; 25; 35Lam Sco ; 1.62; 28000;occ; 101; 0;11675
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2;	-4651.5;	24-MAY-2004	17:00:51;	Dark	;	59.0;	16;	21Alp	Sco	;	1.02;	3000;	occ;	118;	0;	11675
3;	-4558.3;	24-MAY-2004	17:02:24;	Bright	;	43.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	87;	0;	11675
4;	-4456.0;	24-MAY-2004	17:04:06;	Bright	;	51.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	103;	0;	11675
5;	-4301.4;	24-MAY-2004	17:06:41;	Bright	;	38.5;	104;	27Bet	Lib	;	2.61;	13100;	occ;	77;	0;	11675
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7;	-4016.1;	24-MAY-2004	17:11:26;	Bright	;	41.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	82;	0;	11675
8;	-3797.8;	24-MAY-2004	17:15:05;	Bright	;	37.0;	3;	16Alp	Boo	;	-0.05;	4250;	occ;	74;	0;	11675
9;	-3668.5;	24-MAY-2004	17:17:14;	Bright	;	37.5;	83;			;	2.38;	11000;	occ;	75;	0;	11675
10;	-3478.4;	24-MAY-2004	17:20:24;	Bright	;	37.5;	180;	27Gam	Boo	;	3.04;	8000;	occ;	75;	0;	11675
11;	-3285.7;	24-MAY-2004	17:23:37;	Bright	;	38.0;	39;	85Eta	UMa	;	1.85;	24000;	occ;	76;	0;	11675
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13;	-3103.3;	24-MAY-2004	17:26:39;	Bright	;	39.0;	87;	64Gam	UMa	;	2.43;	11000;	occ;	78;	0;	11675
14;	-3000.8;	24-MAY-2004	17:28:22;	Bright	;	41.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	82;	0;	11675
15;	-2867.3;	24-MAY-2004	17:30:35;	Bright	;	38.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	77;	0;	11675
16;	-2591.9;	24-MAY-2004	17:35:10;	Bright	;	39.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	78;	0;	11675
17;	-2352.5;	24-MAY-2004	17:39:10;	Bright	;	48.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	97;	0;	11675
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19;	-2030.6;	24-MAY-2004	17:44:32;	Bright	;	45.0;	68;	18Alp	Cas	;	2.22;	4500;	occ;	90;	0;	11675
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22;	-1229.7;	24-MAY-2004	17:57:53;	Dark	;	47.0;	140;	88Gam	Peg	;	2.83;	26000;	occ;	94;	0;	11675
23;	-1088.8;	24-MAY-2004	18:00:14;	Dark	;	70.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	141;	0;	11675
24;	-698.7;	24-MAY-2004	18:06:44;	Dark	;	49.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	98;	0;	11675
25;	-423.7;	24-MAY-2004	18:11:19;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	11675
26;	-127.8;	24-MAY-2004	18:16:15;	Dark	;	43.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	86;	0;	11675
27;	-5.0;	24-MAY-2004	18:18:17;	Dark	;	48.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	96;	0;	11675
28;	221.6;	24-MAY-2004	18:22:04;	Dark	;	39.0;	135;	Bet	Hyi	;	2.82;	5800;	occ;	78;	0;	11676
29;	417.9;	24-MAY-2004	18:25:20;	Dark	;	43.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	87;	0;	11676
30;	682.5;	24-MAY-2004	18:29:45;	Dark	;	39.0;	43;	Alp	TrA	;	1.91;	4250;	occ;	78;	0;	11676
31;	809.5;	24-MAY-2004	18:31:52;	Dark	;	38.0;	134;	Bet	TrA	;	2.81;	6600;	occ;	76;	0;	11676
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33;	986.8;	24-MAY-2004	18:34:49;	Dark	;	51.0;	40;	The	Sco	;	1.86;	7100;	occ;	102;	0;	11676

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2;	-4938.9;	24-MAY-2004	18:36:39;	Dark	;	51.5;	25;	35Lam	Sco	;	1.62;	28000;	occ;	103;	0;	11676
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7;	-4301.0;	24-MAY-2004	18:47:17;	Bright	;	39.0;	104;	27Bet	Lib	;	2.61;	13100;	occ;	78;	0;	11676
8;	-4199.1;	24-MAY-2004	18:48:59;	Bright	;	44.0;	120;	1Del	Oph	;	2.73;	3200;	occ;	88;	0;	11676
9;	-4015.4;	24-MAY-2004	18:52:03;	Bright	;	40.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	80;	0;	11676
10;	-3797.0;	24-MAY-2004	18:55:41;	Bright	;	36.5;	3;	16Alp	Boo	;	-0.05;	4250;	occ;	73;	0;	11676
11;	-3668.2;	24-MAY-2004	18:57:50;	Bright	;	40.0;	83;			;	2.38;	11000;	occ;	80;	0;	11676
12;	-3477.5;	24-MAY-2004	19:01:01;	Bright	;	35.0;	180;	27Gam	Boo	;	3.04;	8000;	occ;	70;	0;	11676
13;	-3284.9;	24-MAY-2004	19:04:13;	Bright	;	36.5;	39;	85Eta	UMa	;	1.85;	24000;	occ;	73;	0;	11676
14;	-3181.8;	24-MAY-2004	19:05:57;	Bright	;	37.0;	55;	79Zet	UMa	;	2.06;	10200;	occ;	74;	0;	11676
15;	-3102.9;	24-MAY-2004	19:07:15;	Bright	;	39.0;	87;	64Gam	UMa	;	2.43;	11000;	occ;	78;	0;	11676
16;	-3000.2;	24-MAY-2004	19:08:58;	Bright	;	41.5;	119;	14Eta	Dra	;	2.73;	4700;	occ;	83;	0;	11676
17;	-2866.6;	24-MAY-2004	19:11:12;	Bright	;	38.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	76;	0;	11676
18;	-2590.8;	24-MAY-2004	19:15:48;	Bright	;	38.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	76;	0;	11676
19;	-2352.5;	24-MAY-2004	19:19:46;	Bright	;	47.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	95;	0;	11676
20;	-2101.2;	24-MAY-2004	19:23:57;	Bright	;	35.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	71;	0;	11676
21;	-2029.7;	24-MAY-2004	19:25:09;	Bright	;	40.5;	68;	18Alp	Cas	;	2.22;	4500;	occ;	81;	0;	11676
22;	-1653.5;	24-MAY-2004	19:31:25;	Bright	;	40.5;	53;	43Bet	And	;	2.05;	3300;	occ;	81;	0;	11676
23;	-1500.2;	24-MAY-2004	19:33:58;	Dark	;	51.0;	58;	21Alp	And	;	2.07;	11000;	occ;	102;	0;	11676
24;	-1228.6;	24-MAY-2004	19:38:30;	Dark	;	48.5;	140;	88Gam	Peg	;	2.83;	26000;	occ;	97;	0;	11676
25;	-1088.1;	24-MAY-2004	19:40:50;	Dark	;	68.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	137;	0;	11676
26;	-697.8;	24-MAY-2004	19:47:20;	Dark	;	49.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	99;	0;	11676
27;	-423.4;	24-MAY-2004	19:51:55;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	11676
28;	-127.5;	24-MAY-2004	19:56:51;	Dark	;	43.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	87;	0;	11676
29;	-3.8;	24-MAY-2004	19:58:55;	Dark	;	52.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	105;	0;	11676
30;	221.4;	24-MAY-2004	20:02:40;	Dark	;	39.5;	135;	Bet	Hyi	;	2.82;	5800;	occ;	79;	0;	11677
31;	418.4;	24-MAY-2004	20:05:57;	Dark	;	44.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	89;	0;	11677
32;	682.5;	24-MAY-2004	20:10:21;	Dark	;	40.5;	43;	Alp	TrA	;	1.91;	4250;	occ;	81;	0;	11677
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