

GOMOS Daily Report 03-MAY-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	04MAY2004 03:43:09
Data source version	GOMOS/4.02
Start time of products	03-MAY-2004 (03MAY2004 00:00:00)
Stop time of products	04-MAY-2004 (04MAY2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	0

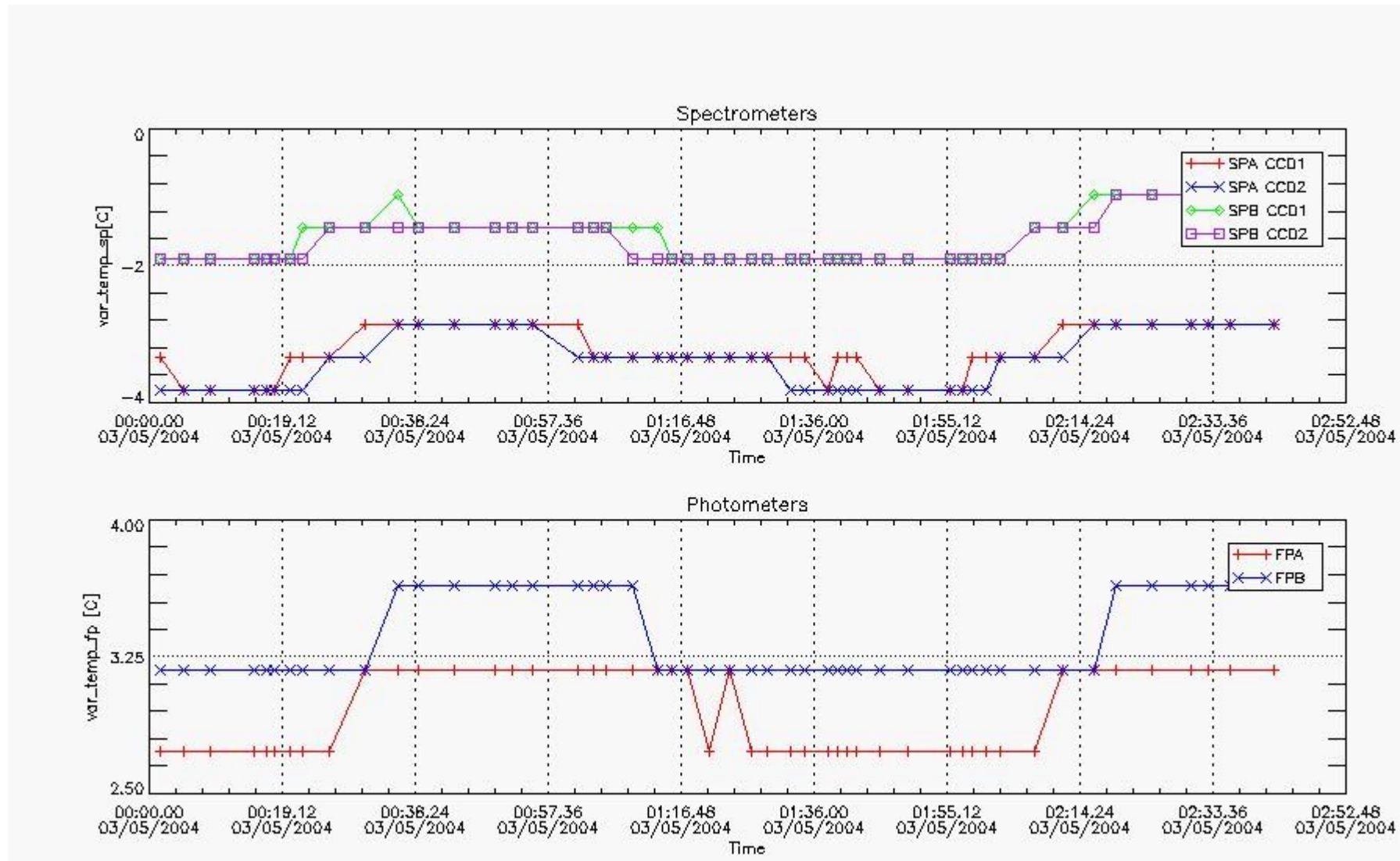
2. Summary of products arrived in PCF

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_1PNPDE20040503_000131_000000402026_00288_11364_0012.N1	03-MAY-2004 00:01:31	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	11364	No
GOM_TRA_1PNPDE20040503_000459_000000362026_00288_11364_0013.N1	03-MAY-2004 00:04:59	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	11364	No
GOM_TRA_1PNPDE20040503_000852_000000332026_00288_11364_0014.N1	03-MAY-2004 00:08:52	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	11364	No
GOM_TRA_1PNPDE20040503_001505_000000432026_00288_11364_0015.N1	03-MAY-2004 00:15:05	Bright	43.000	89	5Alp Cep	2.4510	8000.0	86	11364	No
GOM_TRA_1PNPDE20040503_001650_000000382026_00288_11364_0016.N1	03-MAY-2004 00:16:50	Bright	38.000	110	37Del Cas	2.6780	8900.0	76	11364	No
GOM_TRA_1PNPDE20040503_001810_000000382026_00288_11364_0017.N1	03-MAY-2004 00:18:10	Bright	37.500	68	18Alp Cas	2.2250	4500.0	75	11364	No
GOM_TRA_1PNPDE20040503_002014_000000622026_00288_11364_0018.N1	03-MAY-2004 00:20:14	Bright	62.000	19	50Alp Cyg	1.2460	10500.	124	11364	No
GOM_TRA_1PNPDE20040503_002212_000000762026_00288_11364_0019.N1	03-MAY-2004 00:22:12	Twilight	75.500	66	37Gam Cyg	2.2080	5900.0	151	11364	No
GOM_TRA_1PNPDE20040503_002602_000000862026_00288_11364_0020.N1	03-MAY-2004 00:26:02	Twilight	86.000	92	53Eps Cyg	2.5000	4500.0	172	11364	No
GOM_TRA_1PNPDE20040503_003112_000000462026_00288_11364_0021.N1	03-MAY-2004 00:31:12	Twilight	45.500	90	54Alp Peg	2.4870	11000.	91	11364	No
GOM_TRA_1PNPDE20040503_003548_000000742026_00288_11364_0022.N1	03-MAY-2004 00:35:48	Dark	73.500	61	8Eps Peg	2.1000	3900.0	147	11364	No
GOM_TRA_1PNPDE20040503_003854_000000452026_00288_11364_0023.N1	03-MAY-2004 00:38:54	Dark	44.500	52	16Bet Cet	2.0370	4500.0	89	11364	No
GOM_TRA_1PNPDE20040503_004406_000000472026_00288_11364_0024.N1	03-MAY-2004 00:44:06	Dark	47.000	18	24Alp PsA	1.1660	9700.0	94	11364	No
GOM_TRA_1PNPDE20040503_004954_000000432026_00288_11364_0025.N1	03-MAY-2004 00:49:54	Dark	43.000	31	Alp Gru	1.7340	15200.	86	11364	No
GOM_TRA_1PNPDE20040503_005224_000000402026_00289_11365_0026.N1	03-MAY-2004 00:52:24	Dark	39.500	148	Alp Tuc	2.8780	4100.0	79	11365	No
GOM_TRA_1PNPDE20040503_005525_000000432026_00289_11365_0027.N1	03-MAY-2004 00:55:25	Dark	43.000	45	Alp Pav	1.9400	26000.	86	11365	No
GOM_TRA_1PNPDE20040503_010151_000000402026_00289_11365_0028.N1	03-MAY-2004 01:01:51	Dark	40.000	43	Alp TrA	1.9100	4250.0	80	11365	No
GOM_TRA_1PNPDE20040503_010404_000000392026_00289_11365_0029.N1	03-MAY-2004 01:04:04	Dark	39.000	134	Bet TrA	2.8100	6600.0	78	11365	No
GOM_TRA_1PNPDE20040503_010603_000000512026_00289_11365_0030.N1	03-MAY-2004 01:06:03	Twilight	50.500	4	Alp1Cen	-0.010000	5800.0	101	11365	No
GOM_TRA_1PNPDE20040503_010945_000000612026_00289_11365_0031.N1	03-MAY-2004 01:09:45	Bright	60.500	75	26Eps Sco	2.2910	4250.0	121	11365	No
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GOM_TRA_1PNPDE20040503_011530_000000652026_00289_11365_0001.N1	03-MAY-2004 01:15:30	Bright	64.500	80	7Del Sco	2.3160	30000.	129	11365	No
GOM_TRA_1PNPDE20040503_011745_000000402026_00289_11365_0002.N1	03-MAY-2004 01:17:45	Bright	39.500	106	9Bet Crv	2.6480	5600.0	79	11365	No
GOM_TRA_1PNPDE20040503_012048_000000492026_00289_11365_0003.N1	03-MAY-2004 01:20:48	Bright	49.000	104	27Bet Lib	2.6140	13100.	98	11365	No
GOM_TRA_1PNPDE20040503_012344_000000382026_00289_11365_0004.N1	03-MAY-2004 01:23:44	Bright	38.000	121	29Gam Vir	2.7400	7200.0	76	11365	No
GOM_TRA_1PNPDE20040503_012700_000000382026_00289_11365_0005.N1	03-MAY-2004 01:27:00	Bright	37.500	138	47Eps Vir	2.8280	4700.0	75	11365	No
GOM_TRA_1PNPDE20040503_012911_000000402026_00289_11365_0006.N1	03-MAY-2004 01:29:11	Bright	40.000	111	8Eta Boo	2.6800	6000.0	80	11365	No
GOM_TRA_1PNPDE20040503_013242_000000462026_00289_11365_0007.N1	03-MAY-2004 01:32:42	Bright	45.500	83		2.3780	11000.	91	11365	No
GOM_TRA_1PNPDE20040503_013442_000000362026_00289_11365_0008.N1	03-MAY-2004 01:34:42	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	11365	No
GOM_TRA_1PNPDE20040503_013805_000000382026_00289_11365_0009.N1	03-MAY-2004 01:38:05	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	11365	No
GOM_TRA_1PNPDE20040503_013929_000000362026_00289_11365_0010.N1	03-MAY-2004 01:39:29	Bright	36.000	55	79Zet UMa	2.0600	10200.	72	11365	No
GOM_TRA_1PNPDE20040503_014049_000000382026_00289_11365_0011.N1	03-MAY-2004 01:40:49	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	11365	No
GOM_TRA_1PNPDE20040503_014206_000000382026_00289_11365_0012.N1	03-MAY-2004 01:42:06	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	11365	No
GOM_TRA_1PNPDE20040503_014535_000000402026_00289_11365_0013.N1	03-MAY-2004 01:45:35	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	11365	No
GOM_TRA_1PNPDE20040503_014927_000000382026_00289_11365_0014.N1	03-MAY-2004 01:49:27	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	11365	No
GOM_TRA_1PNPDE20040503_015541_000000442026_00289_11365_0015.N1	03-MAY-2004 01:55:41	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	11365	No
GOM_TRA_1PNPDE20040503_015726_000000392026_00289_11365_0016.N1	03-MAY-2004 01:57:26	Bright	39.000	110	37Del Cas	2.6780	8900.0	78	11365	No
GOM_TRA_1PNPDE20040503_015846_000000372026_00289_11365_0017.N1	03-MAY-2004 01:58:46	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	11365	No
GOM_TRA_1PNPDE20040503_020050_000000632026_00289_11365_0018.N1	03-MAY-2004 02:00:50	Bright	62.500	19	50Alp Cyg	1.2460	10500.	125	11365	No
GOM_TRA_1PNPDE20040503_020247_000000792026_00289_11365_0019.N1	03-MAY-2004 02:02:47	Twilight	79.000	66	37Gam Cyg	2.2080	5900.0	158	11365	No
GOM_TRA_1PNPDE20040503_020746_000000512026_00289_11365_0020.N1	03-MAY-2004 02:07:46	Twilight	51.000	93	53Bet Peg	2.5200	3100.0	102	11365	No
GOM_TRA_1PNPDE20040503_021148_000000492026_00289_11365_0021.N1	03-MAY-2004 02:11:48	Twilight	48.500	90	54Alp Peg	2.4870	11000.	97	11365	No
GOM_TRA_1PNPDE20040503_021623_000000822026_00289_11365_0022.N1	03-MAY-2004 02:16:23	Dark	82.000	61	8Eps Peg	2.1000	3900.0	164	11365	No
GOM_TRA_1PNPDE20040503_021930_000000442026_00289_11365_0023.N1	03-MAY-2004 02:19:30	Dark	44.000	52	16Bet Cet	2.0370	4500.0	88	11365	No
GOM_TRA_1PNPDE20040503_022443_000000482026_00289_11365_0024.N1	03-MAY-2004 02:24:43	Dark	48.000	18	24Alp PsA	1.1660	9700.0	96	11365	No
GOM_TRA_1PNPDE20040503_023031_000000422026_00289_11365_0025.N1	03-MAY-2004 02:30:31	Dark	41.500	31	Alp Gru	1.7340	15200.	83	11365	No
GOM_TRA_1PNPDE20040503_023301_000000402026_00290_11366_0026.N1	03-MAY-2004 02:33:01	Dark	40.000	148	Alp Tuc	2.8780	4100.0	80	11366	No
GOM_TRA_1PNPDE20040503_023602_000000442026_00290_11366_0027.N1	03-MAY-2004 02:36:02	Dark	43.500	45	Alp Pav	1.9400	26000.	87	11366	No
GOM_TRA_1PNPDE20040503_024228_000000422026_00290_11366_0028.N1	03-MAY-2004 02:42:28	Dark	41.500	43	Alp TrA	1.9100	4250.0	83	11366	No

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



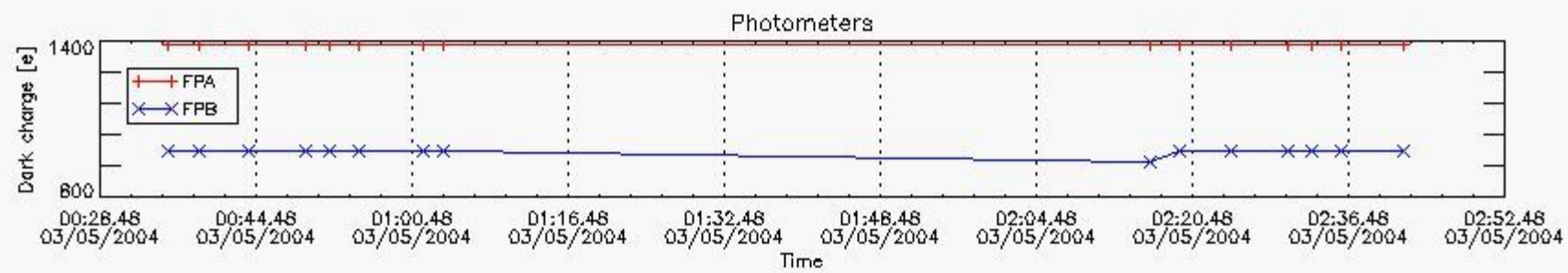
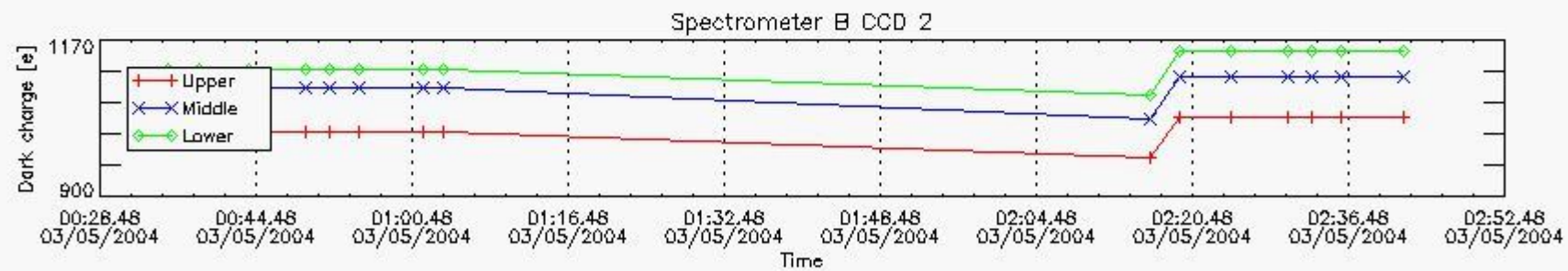
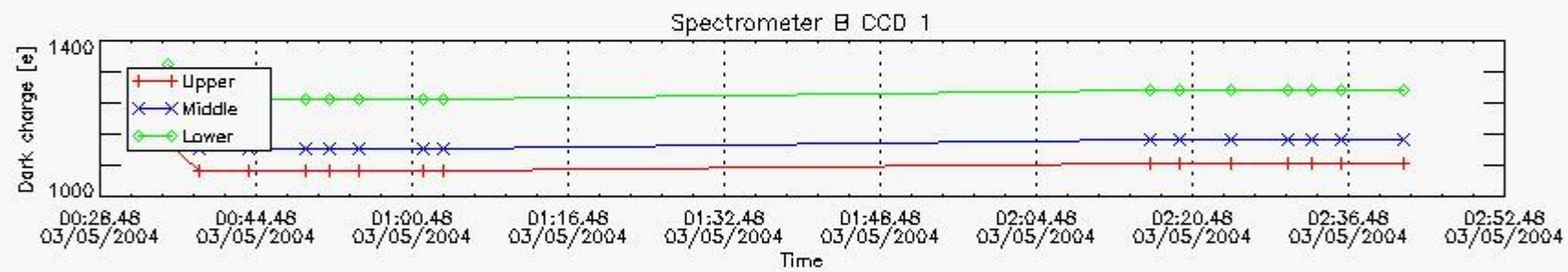
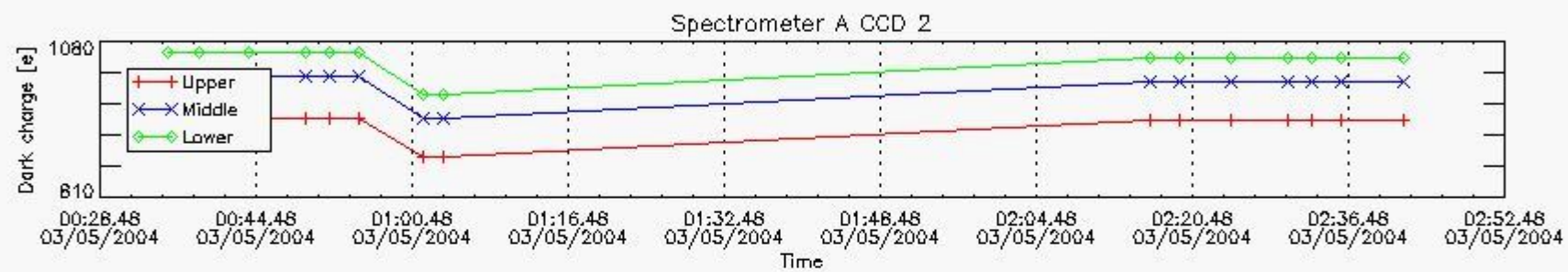
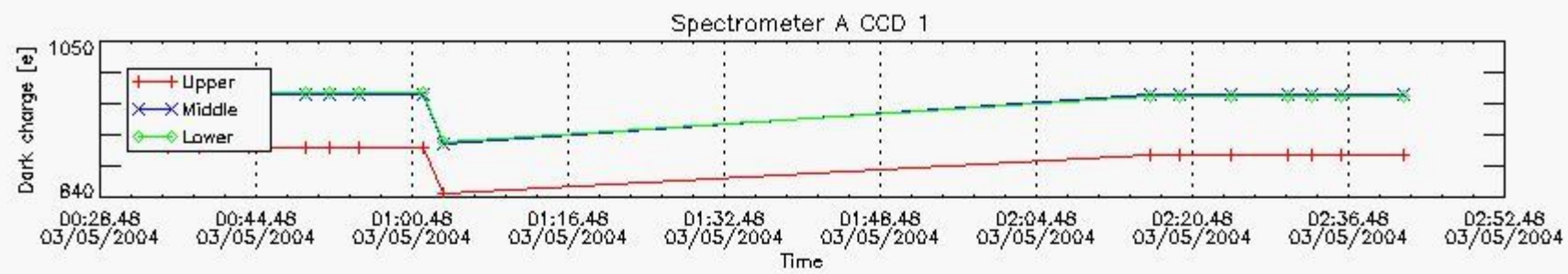
4. Overview of dark signal processing per product

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



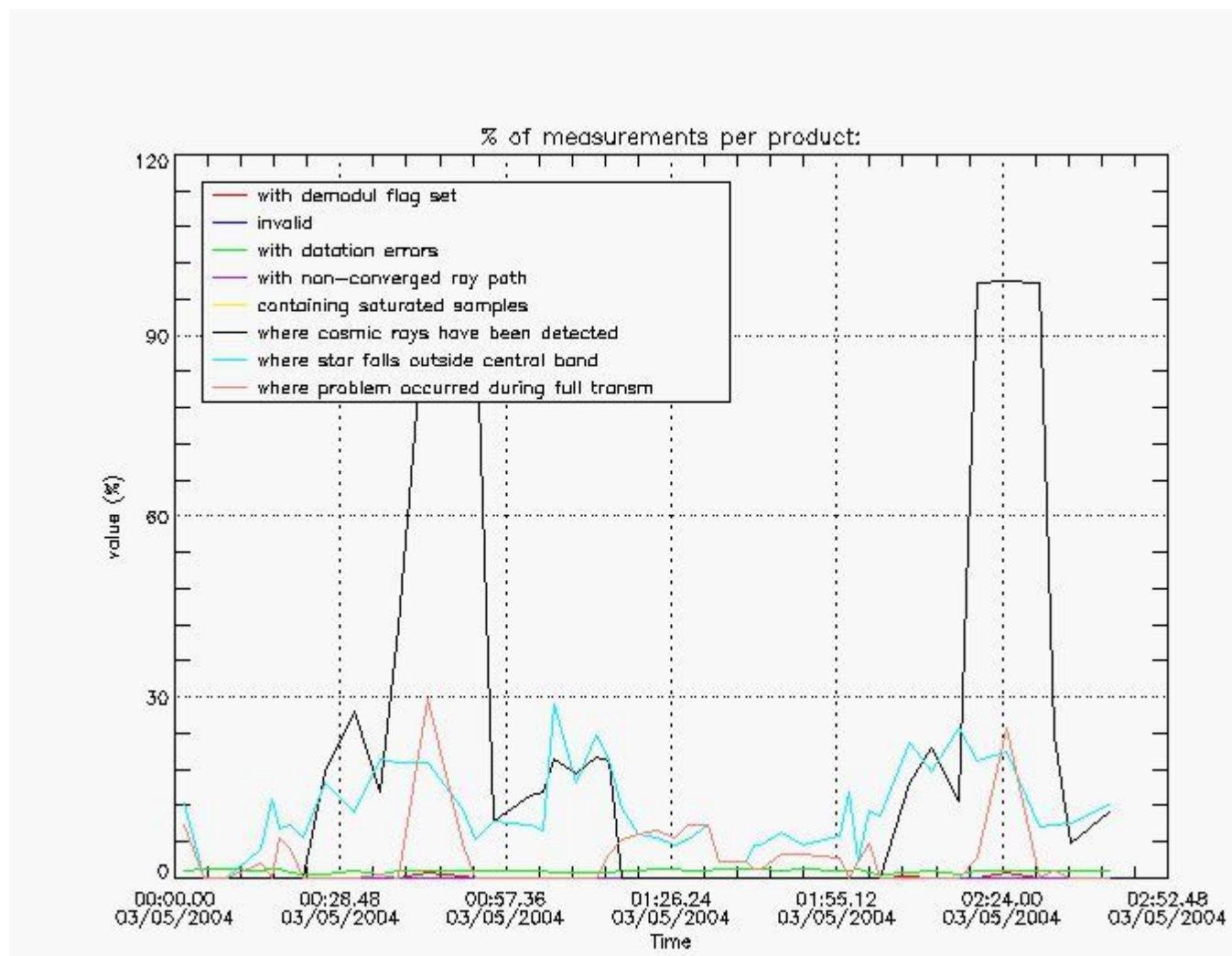
5. Demodulation flag and quality information monitoring

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.

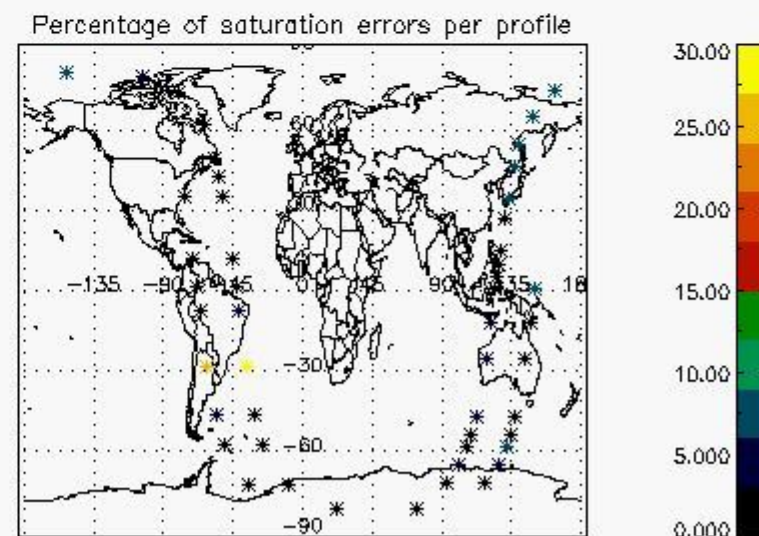
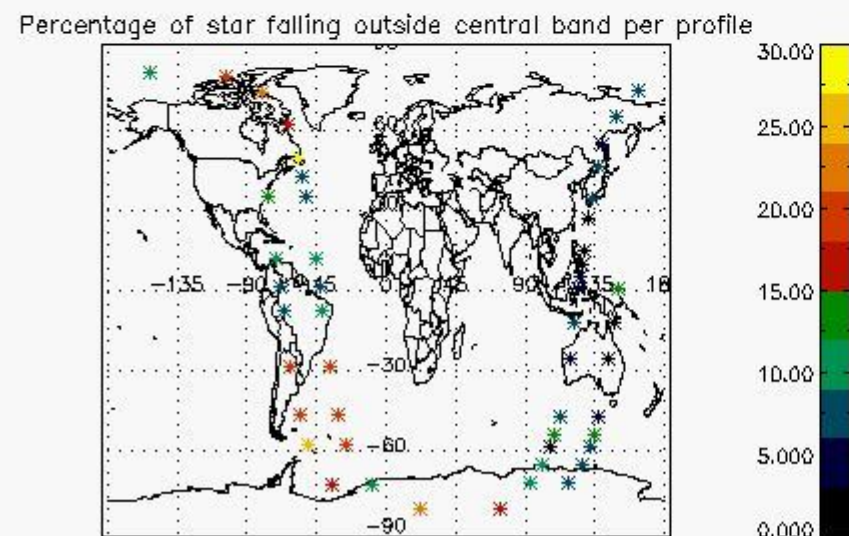
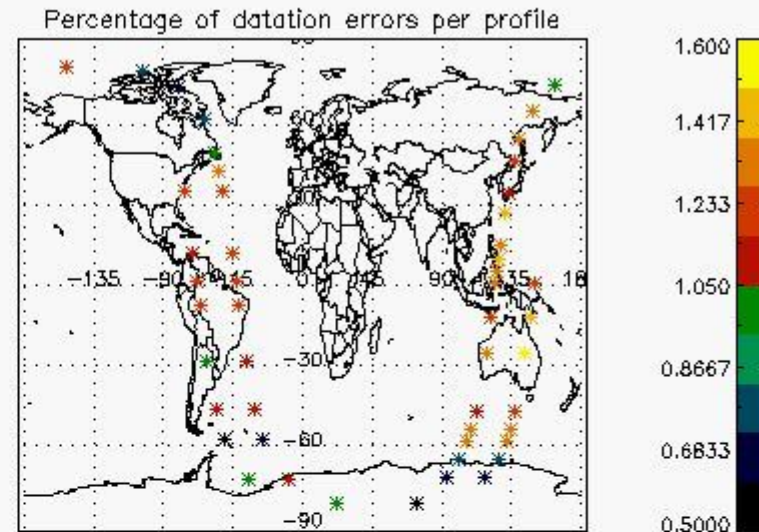
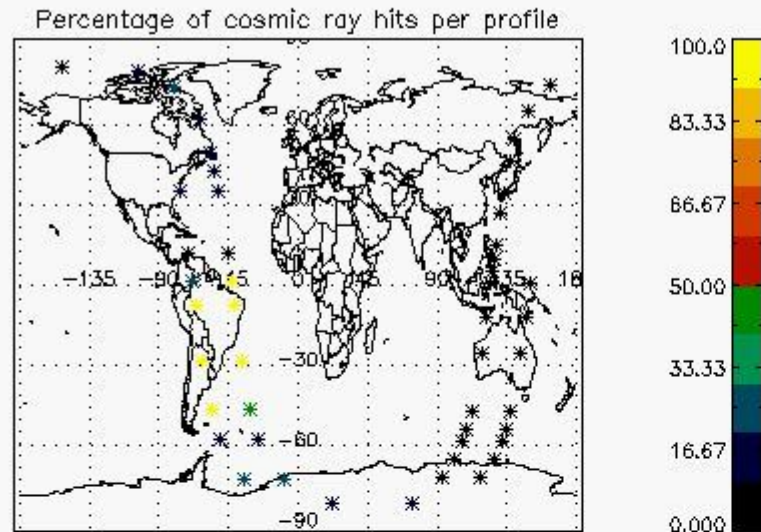
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.2449 %
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)



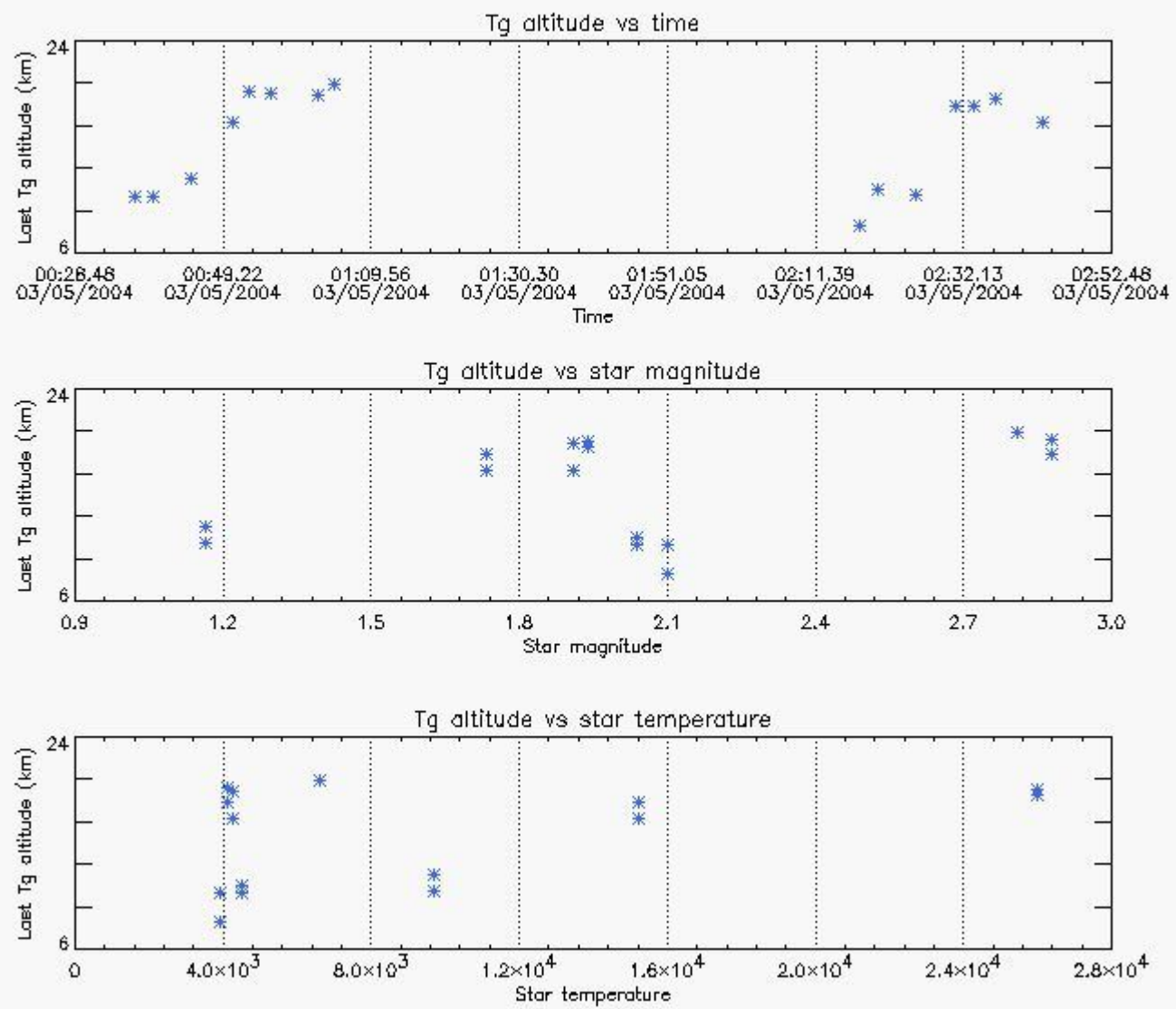
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.567	20.187	13.539
St. deviation:	4.2457	4.4502	4.2275
Maximum:	20.260	31.215	19.402
Minimum:	8.2678	10.029	6.8126
Number of data:	15.000	27.000	7.0000

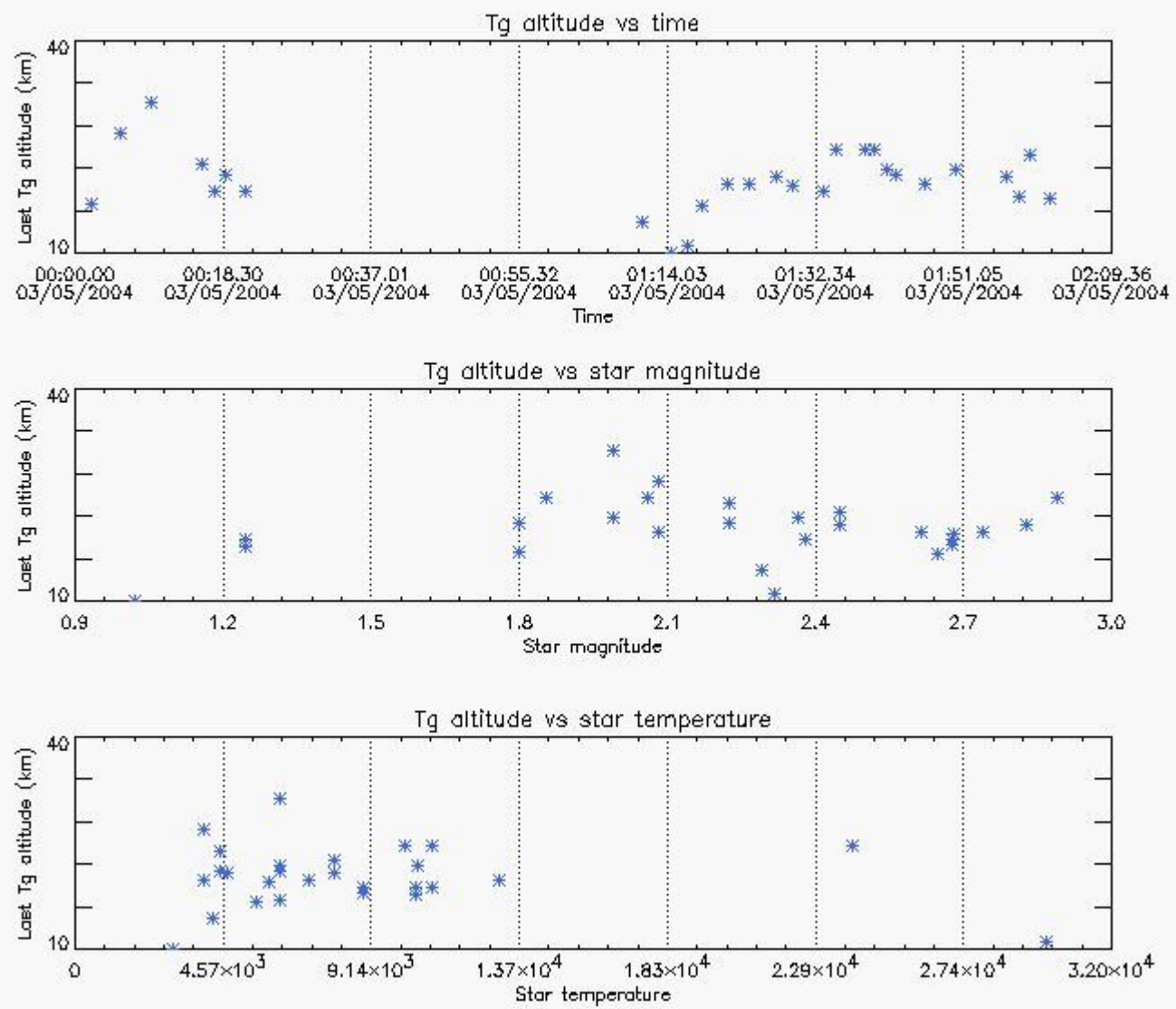
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



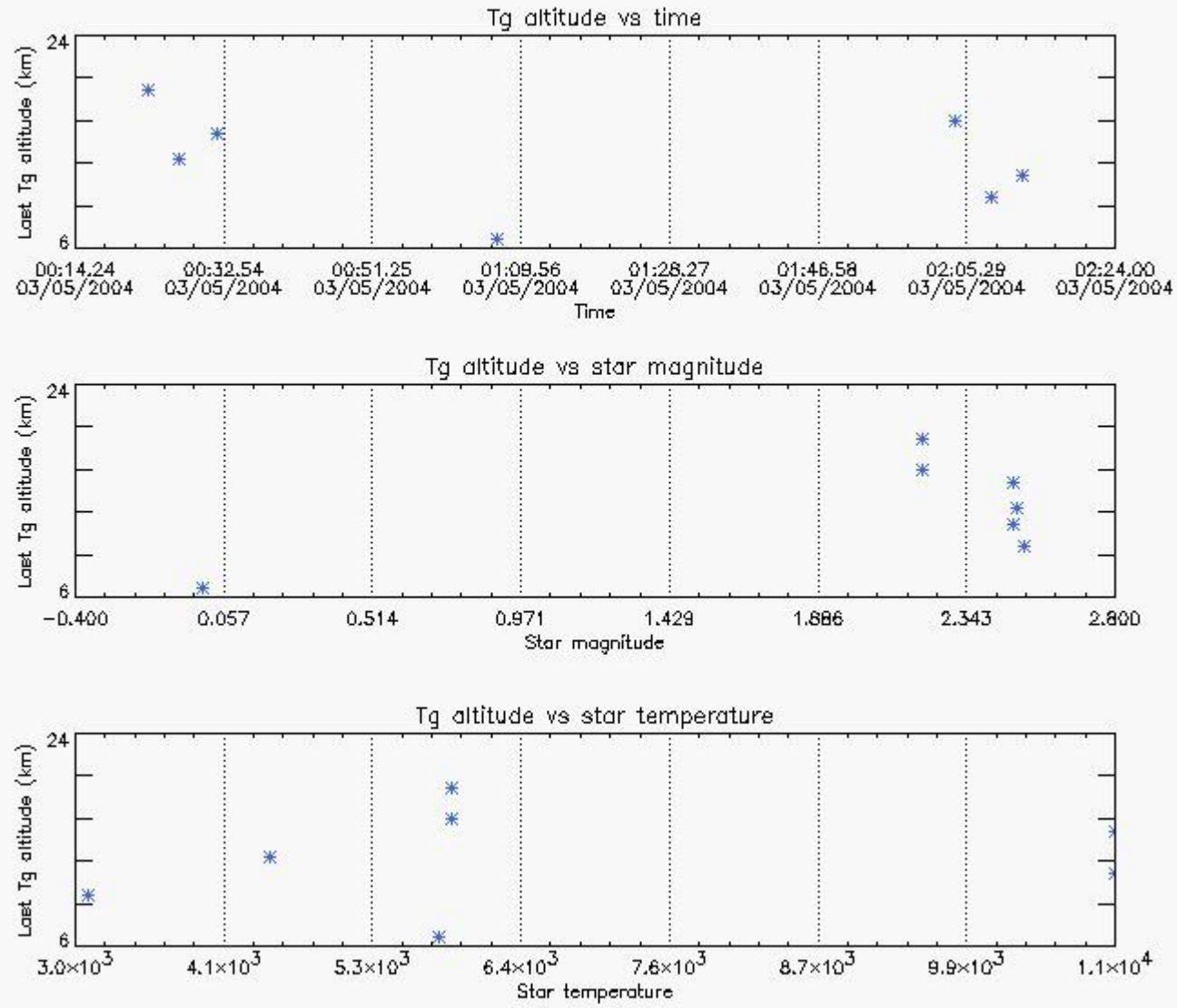
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

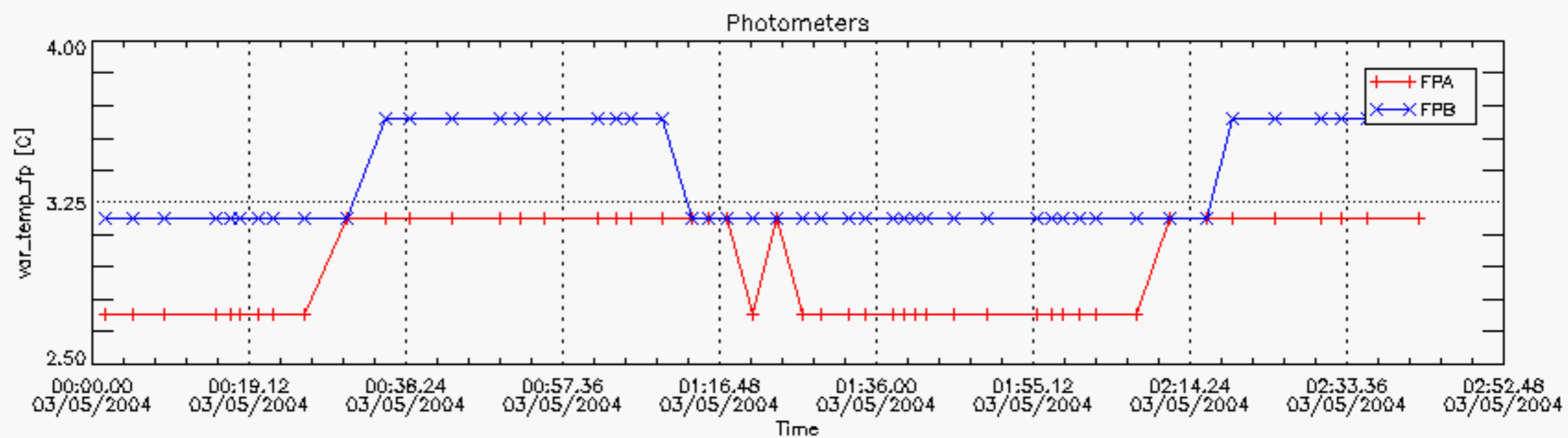
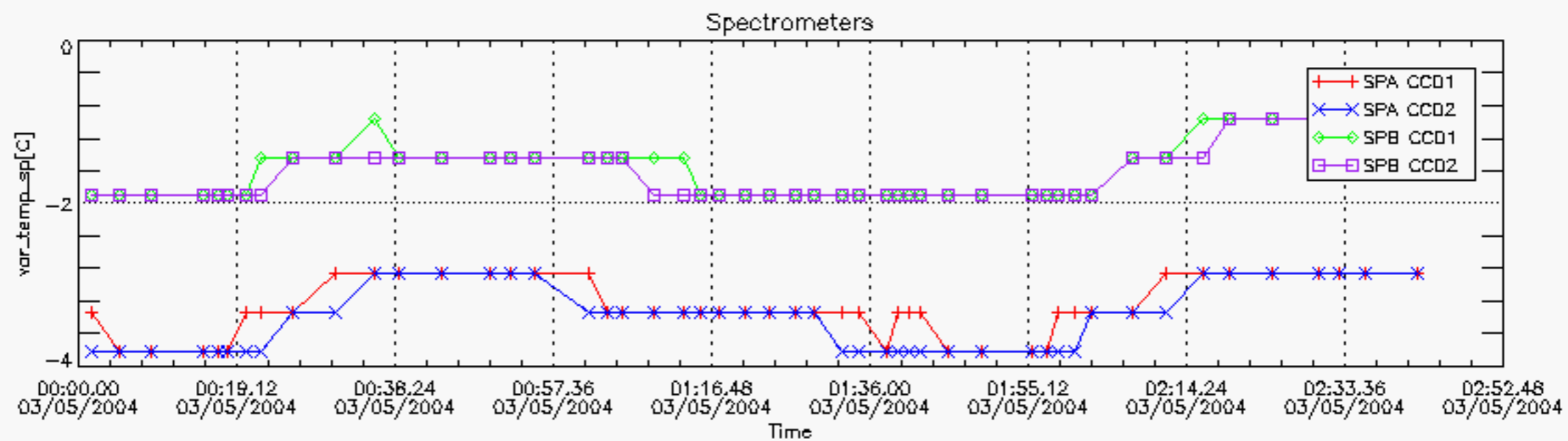
Tangent altitude at which the star is lost

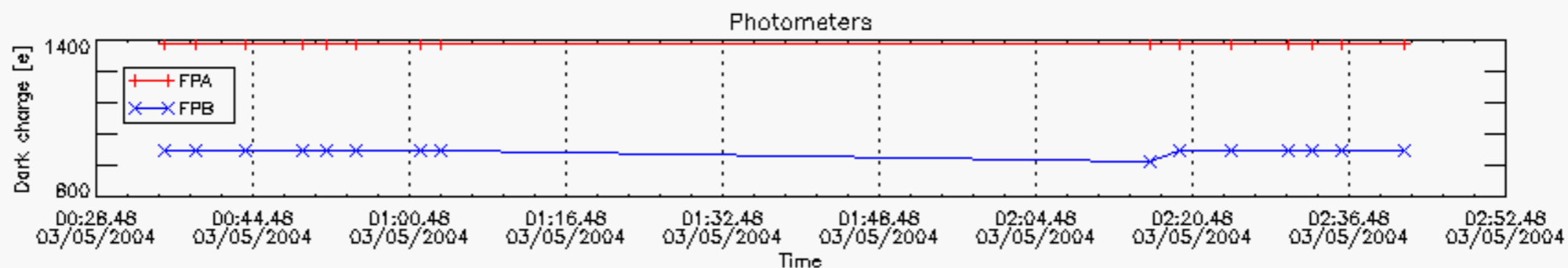
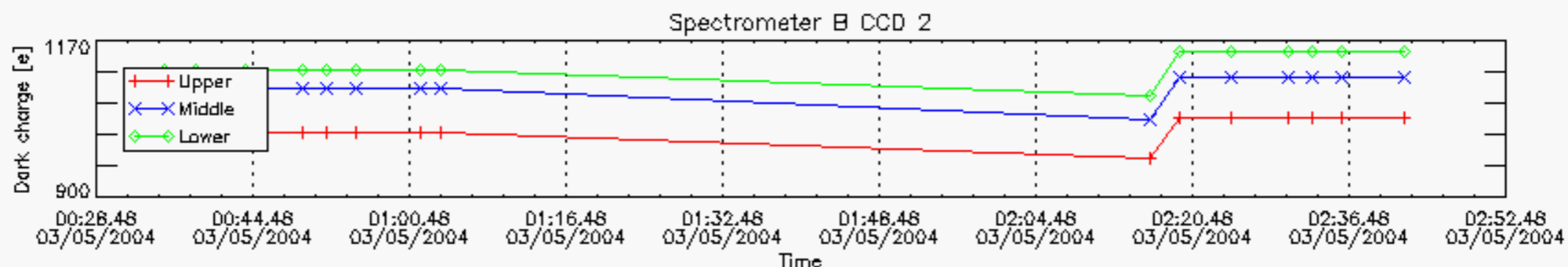
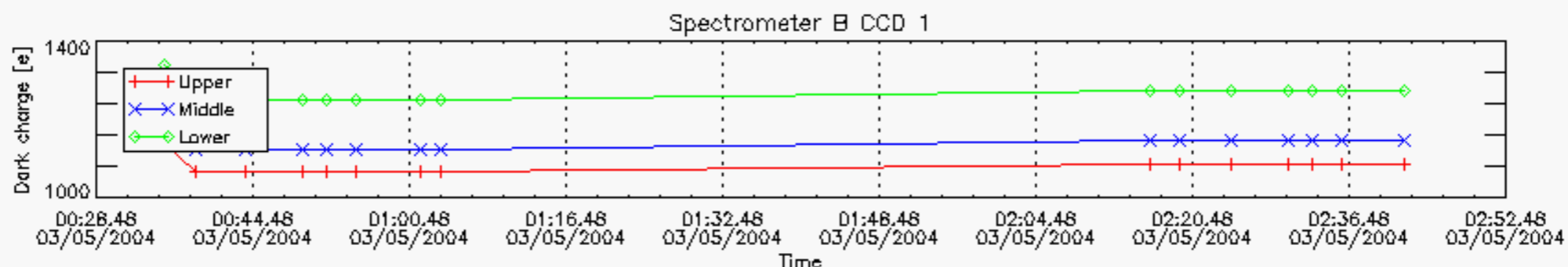
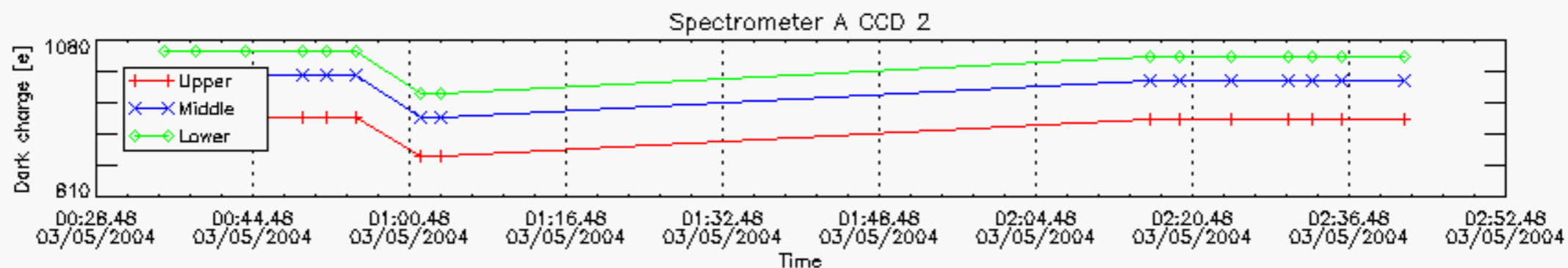
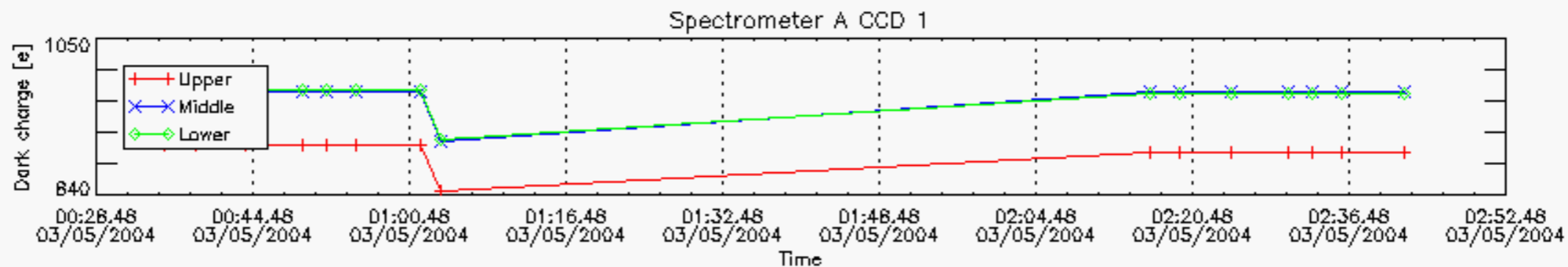


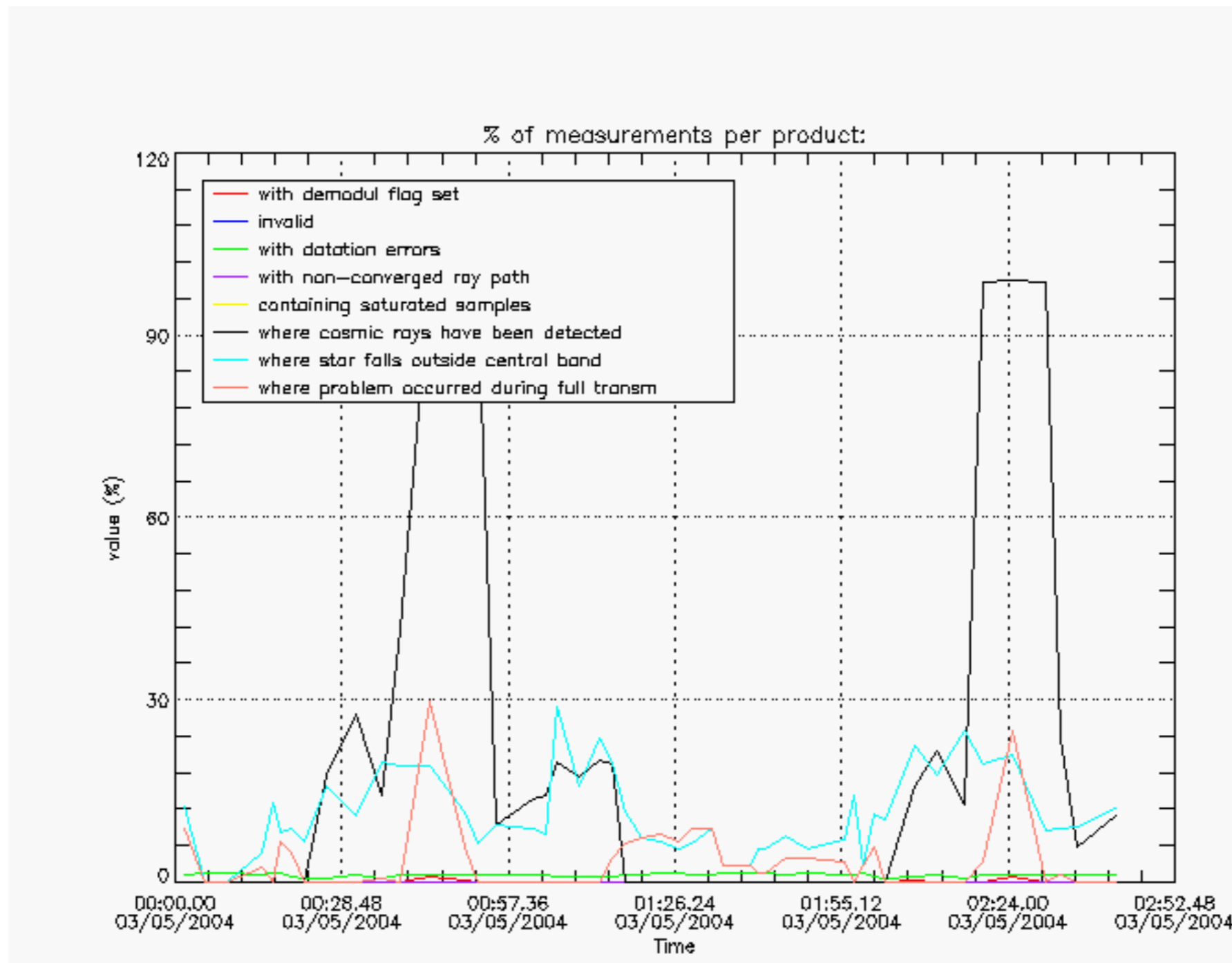
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

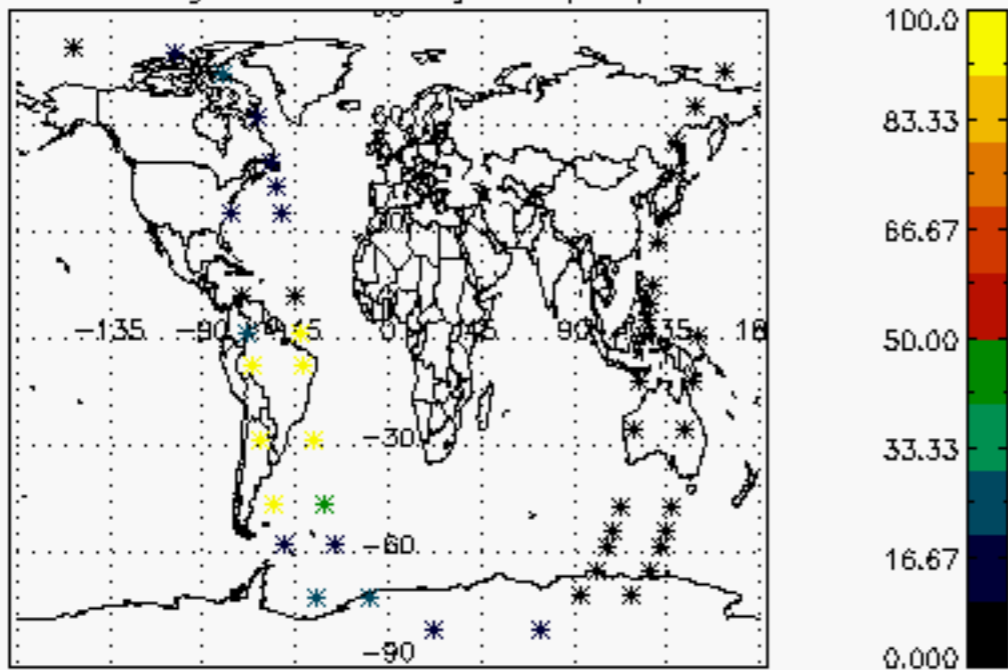
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.7	1447.3	1461.3	1447.0
St. deviation:	3.9534	4.9403	6.5026	7.3476
Maximum:	1489.0	1475.0	1521.0	1496.0
Minimum:	1453.0	1437.0	1448.0	1439.0
Number of data:	17850.	17850.	30450.	30450.



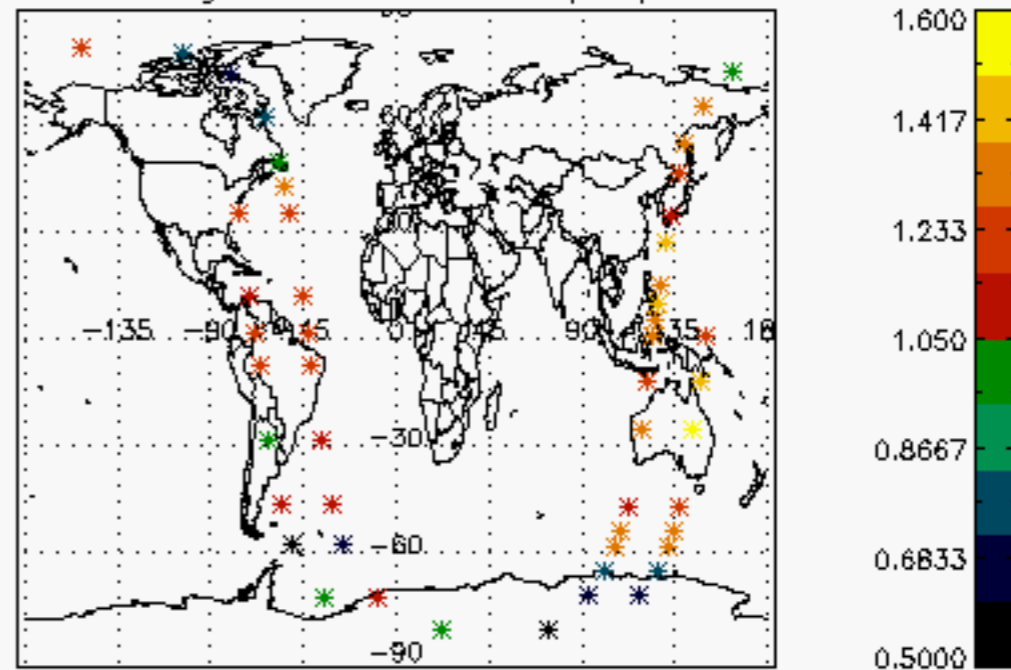




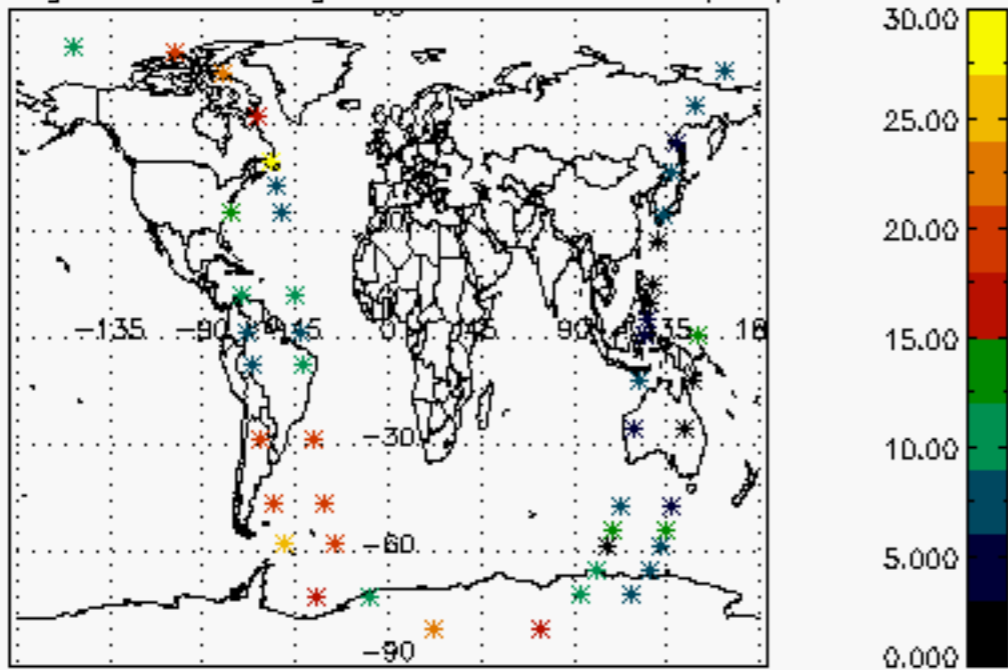
Percentage of cosmic ray hits per profile



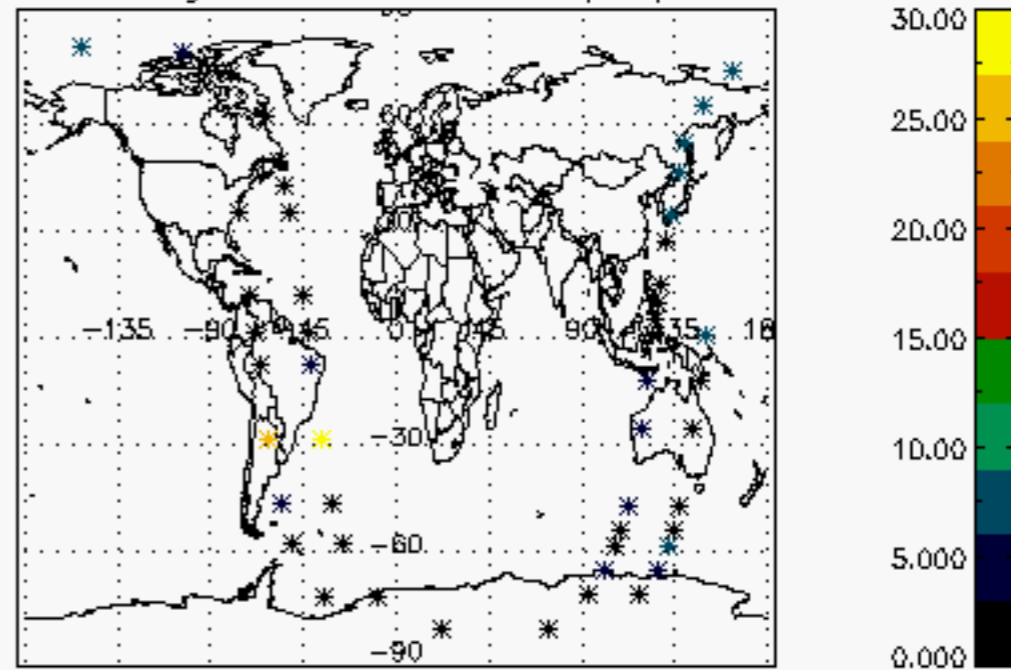
Percentage of datation errors per profile



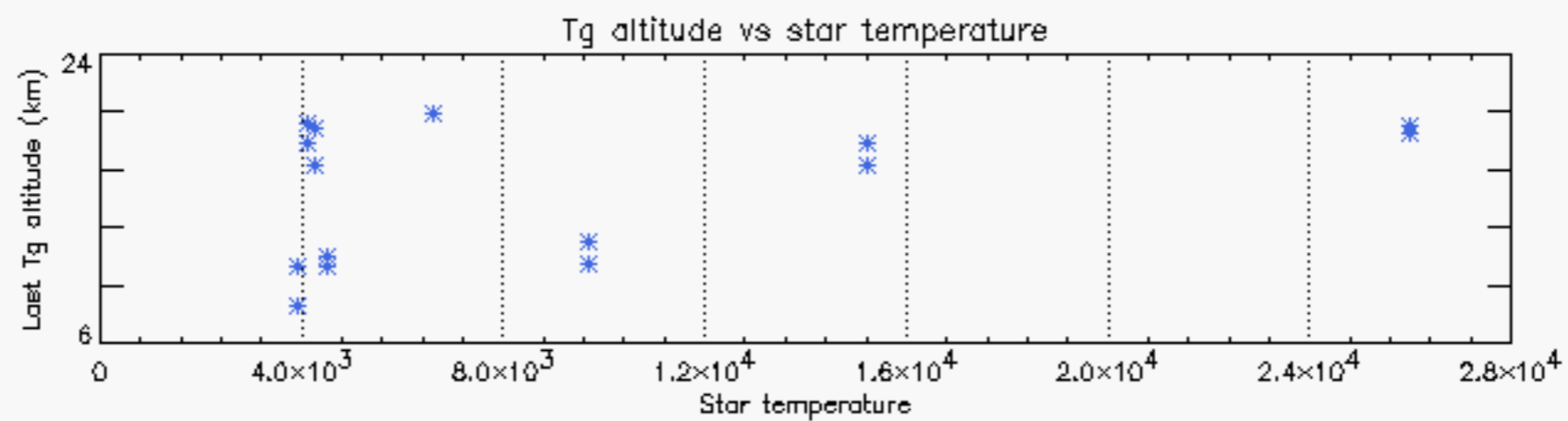
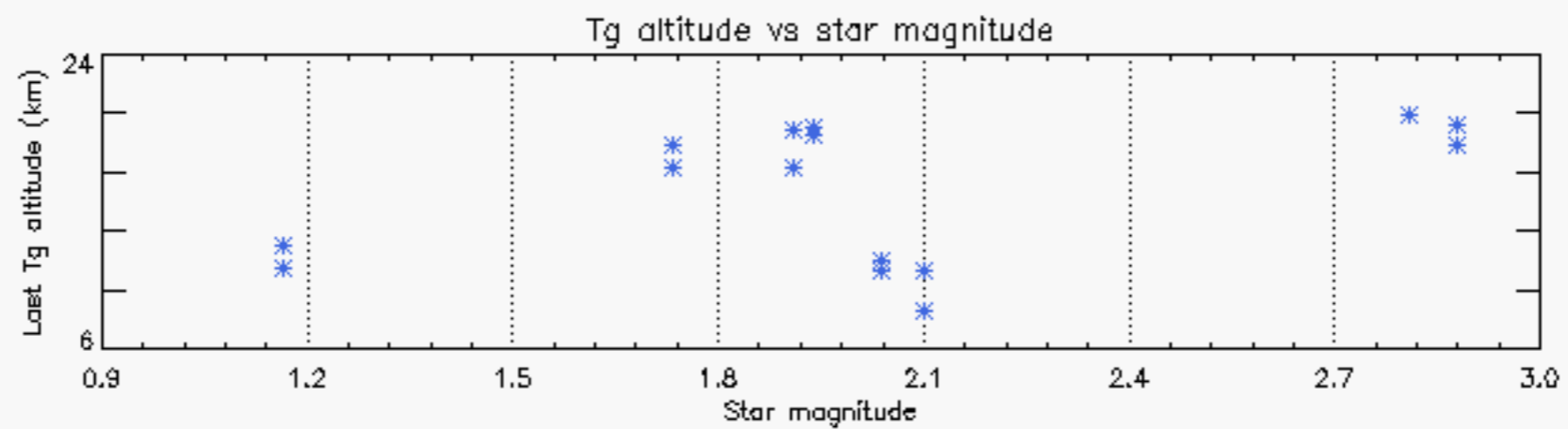
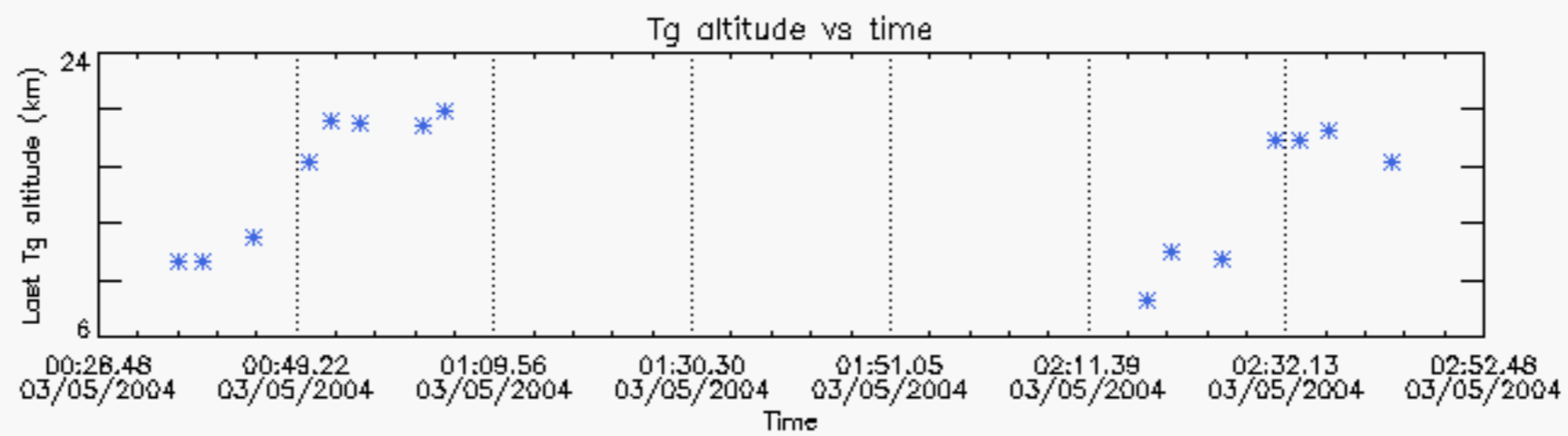
Percentage of star falling outside central band per profile



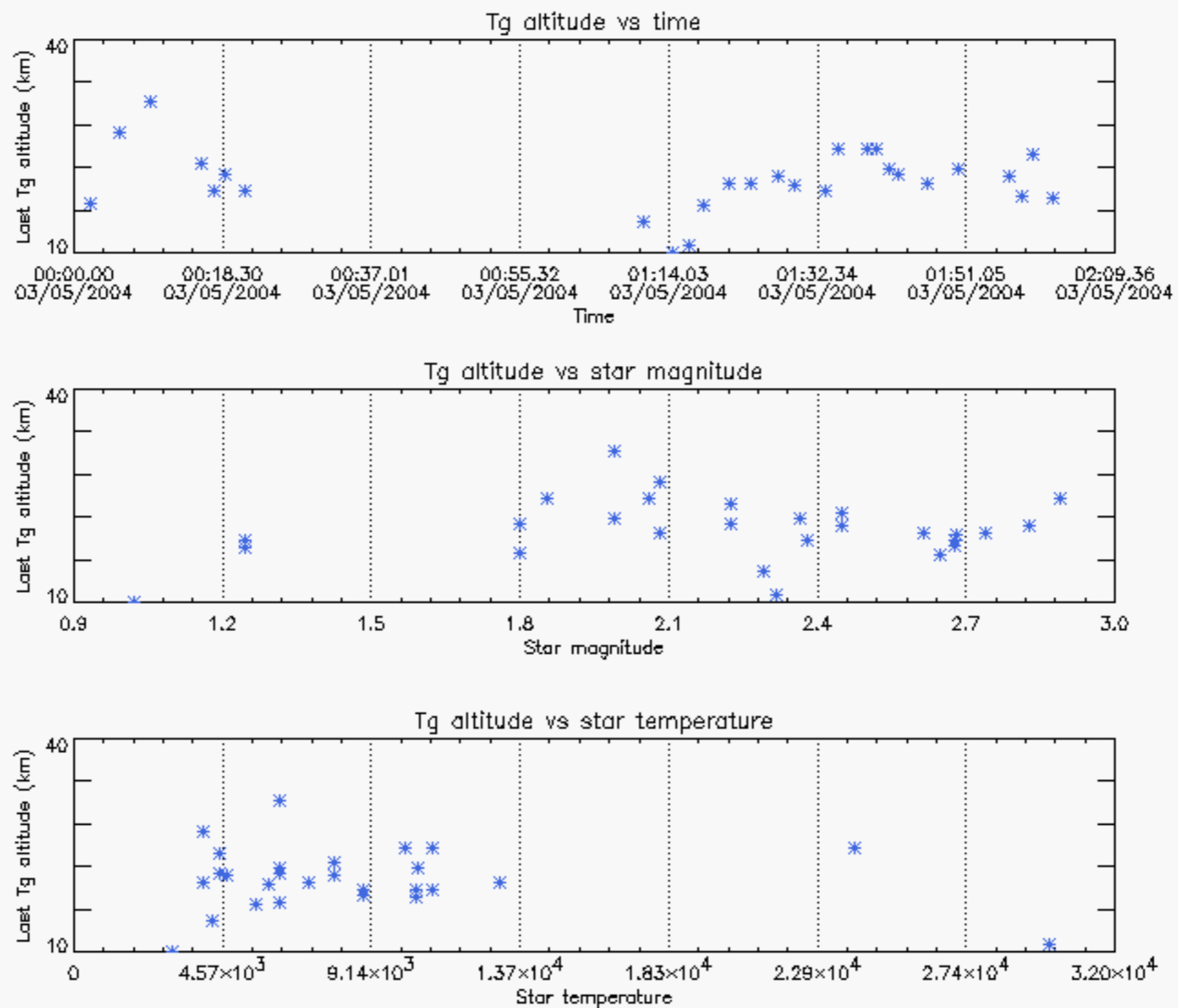
Percentage of saturation errors per profile



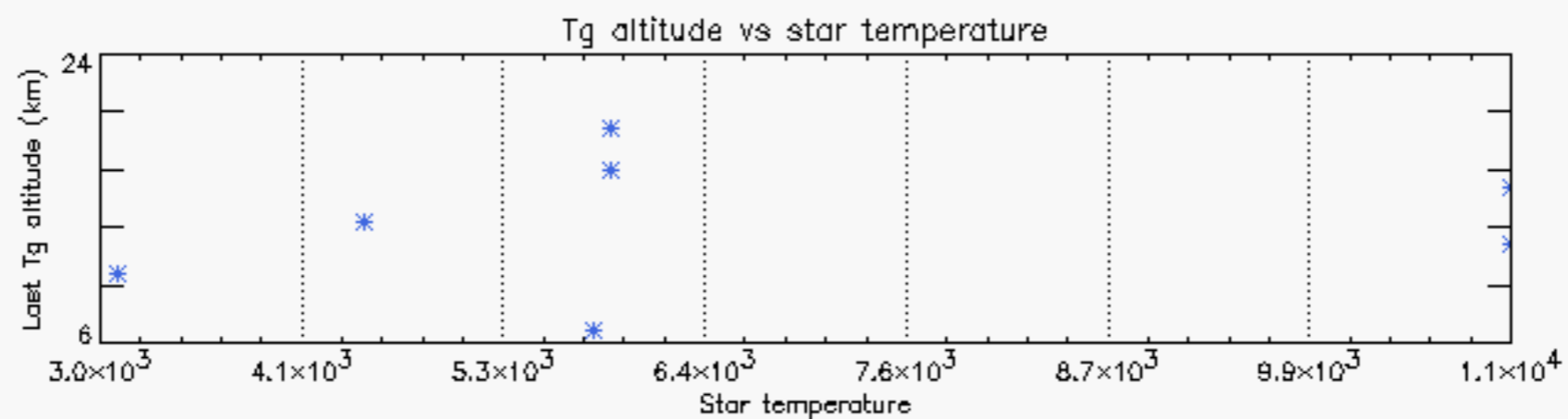
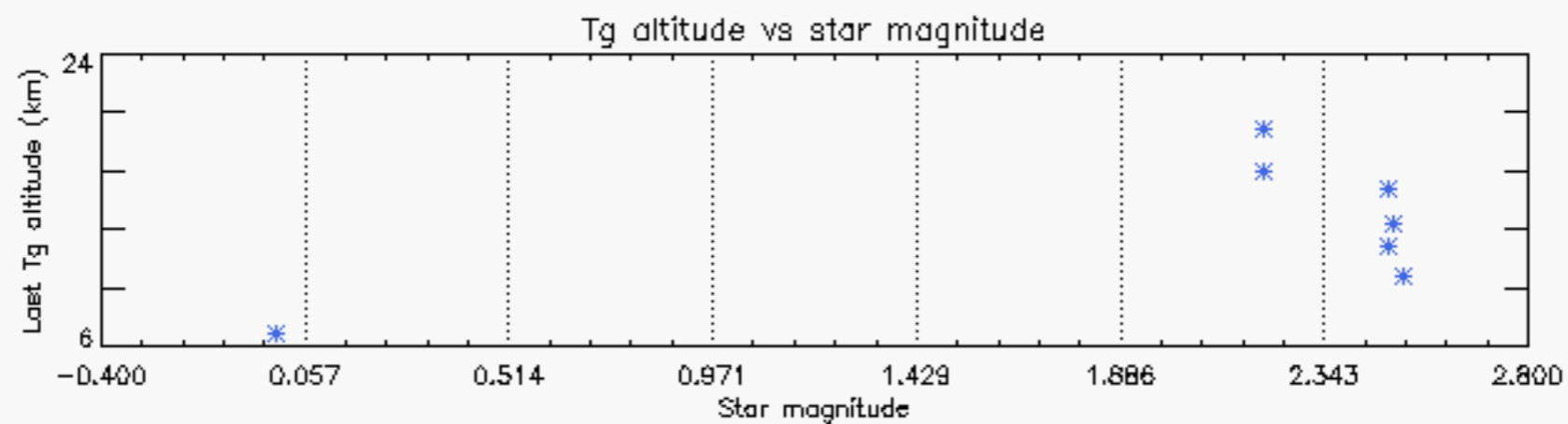
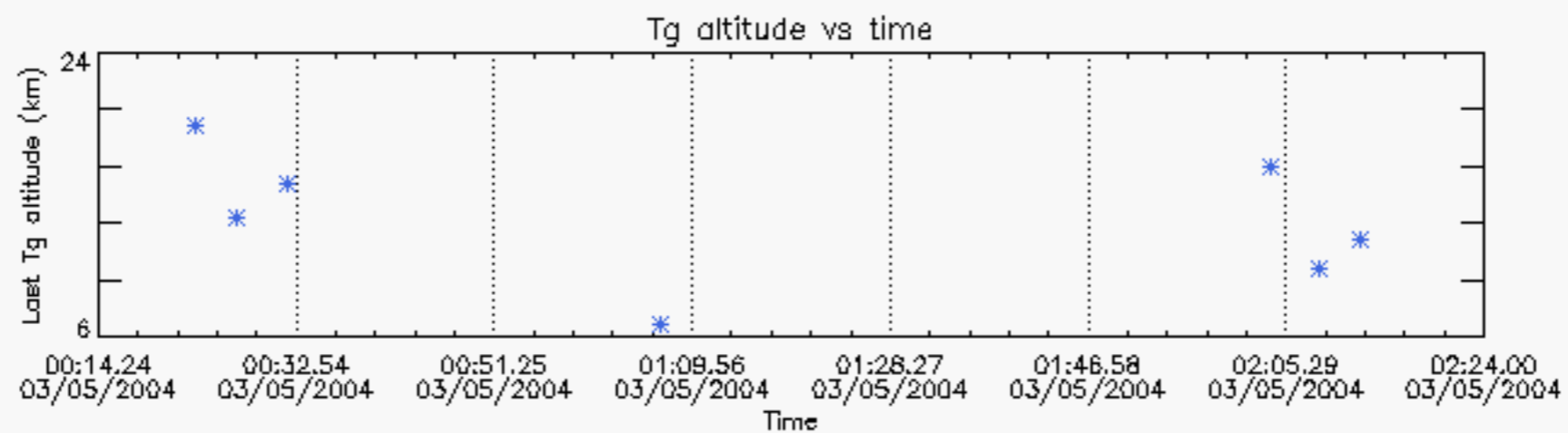
Tangent altitude at which the star is lost



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
29;	581.6;	02-MAY-2004	01:33:23;	Dark	;	41.0;	43;	Alp TrA	;	1.91;	4250;occ;	82;	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
19;-1787.0; 02-MAY-2004 02:34:30; Bright; 78.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 157; 0;11351
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
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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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 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
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 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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9;	-3196.3;	15-MAY-2004	05:23:38;	Bright;	37.5;	55;	79Zet UMa	;	2.06;	10200;occ;	75;	0;	11539	
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15;	-2100.2;	15-MAY-2004	05:41:54;	Bright;	36.5;	76;	27Gam Cas	;	2.30;	30000;occ;	73;	0;	11539	
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25;-238.7; 24-MAY-2004 16:33:48; Dark ; 59.5; 18; 24Alp PsA ; 1.17; 9700;occ; 119; 0;11674
26;-127.9; 24-MAY-2004 16:35:38; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;11674
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
29; 416.8; 24-MAY-2004 16:44:43; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;11675
30; 681.8; 24-MAY-2004 16:49:08; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;11675
31; 808.8; 24-MAY-2004 16:51:15; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;11675
32; 898.0; 24-MAY-2004 16:52:44; Dark ; 50.5; 4; Alp1Cen ;-0.01; 5800;occ; 101; 0;11675
33; 986.1; 24-MAY-2004 16:54:12; Dark ; 51.5; 40; The Sco ; 1.86; 7100;occ; 103; 0;11675
34; 1096.3; 24-MAY-2004 16:56:03; Dark ; 50.5; 25; 35Lam Sco ; 1.62; 28000;occ; 101; 0;11675
35; 1215.4; 24-MAY-2004 16:58:02; Dark ; 54.0; 75; 26Eps Sco ; 2.29; 4250;occ; 108; 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
6;	-4199.1;	24-MAY-2004	17:08:23;	Bright	;	44.0;	120;	1Del	Oph	;	2.73;	3200;	occ;	88;	0;	11675
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
12;	-3183.1;	24-MAY-2004	17:25:19;	Bright	;	38.5;	55;	79Zet	UMa	;	2.06;	10200;	occ;	77;	0;	11675
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
18;	-2101.9;	24-MAY-2004	17:43:20;	Bright	;	37.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	74;	0;	11675
19;	-2030.6;	24-MAY-2004	17:44:32;	Bright	;	45.0;	68;	18Alp	Cas	;	2.22;	4500;	occ;	90;	0;	11675
20;	-1654.0;	24-MAY-2004	17:50:48;	Bright	;	40.5;	53;	43Bet	And	;	2.05;	3300;	occ;	81;	0;	11675
21;	-1500.3;	24-MAY-2004	17:53:22;	Dark	;	50.5;	58;	21Alp	And	;	2.07;	11000;	occ;	101;	0;	11675
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
32;	898.3;	24-MAY-2004	18:33:21;	Dark	;	50.0;	4;	Alp1Cen		;	-0.01;	5800;	occ;	100;	0;	11676
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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1;	-5047.7;	24-MAY-2004	18:34:51;	Dark	;	51.5;	40;	The	Sco	;	1.86;	7100;	occ;	103;	3;	11676
2;	-4938.9;	24-MAY-2004	18:36:39;	Dark	;	51.5;	25;	35Lam	Sco	;	1.62;	28000;	occ;	103;	0;	11676
3;	-4819.9;	24-MAY-2004	18:38:38;	Dark	;	56.0;	75;	26Eps	Sco	;	2.29;	4250;	occ;	112;	0;	11676
4;	-4650.6;	24-MAY-2004	18:41:28;	Dark	;	59.0;	16;	21Alp	Sco	;	1.02;	3000;	occ;	118;	0;	11676
5;	-4557.5;	24-MAY-2004	18:43:01;	Bright	;	42.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	85;	0;	11676
6;	-4456.2;	24-MAY-2004	18:44:42;	Bright	;	53.0;	86;	35Eta	Oph	;	2.43;	10200;	occ;	106;	0;	11676
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
33;	809.7;	24-MAY-2004	20:12:28;	Dark	;	37.5;	134;	Bet	TrA	;	2.81;	6600;	occ;	75;	0;	11677

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3;-4938.3; 24-MAY-2004 20:17:16; Dark ; 52.5; 25; 35Lam Sco ; 1.62; 28000;occ; 105; 0;11677
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5;-4650.6; 24-MAY-2004 20:22:04; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;11677
6;-4557.5; 24-MAY-2004 20:23:37; Bright; 42.5; 80; 7Del Sco ; 2.32; 30000;occ; 85; 0;11677
7;-4455.3; 24-MAY-2004 20:25:19; Bright; 51.0; 86; 35Eta Oph ; 2.43; 10200;occ; 102; 0;11677
8;-4301.1; 24-MAY-2004 20:27:53; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;11677
9;-4199.1; 24-MAY-2004 20:29:35; Bright; 44.0; 120; 1Del Oph ; 2.73; 3200;occ; 88; 0;11677
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21;-2101.1; 24-MAY-2004 21:04:33; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;11677
22;-2029.3; 24-MAY-2004 21:05:45; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;11677
23;-1653.9; 24-MAY-2004 21:12:00; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;11677
24;-1500.1; 24-MAY-2004 21:14:34; Dark ; 51.0; 58; 21Alp And ; 2.07; 11000;occ; 102; 0;11677
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26;-1088.0; 24-MAY-2004 21:21:26; Dark ; 72.0; 90; 54Alp Peg ; 2.49; 11000;occ; 144; 0;11677
27;-697.3; 24-MAY-2004 21:27:57; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;11677
28;-423.0; 24-MAY-2004 21:32:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11677
29;-127.7; 24-MAY-2004 21:37:27; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;11677
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31; 221.7; 24-MAY-2004 21:43:16; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;11678
32; 418.9; 24-MAY-2004 21:46:33; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;11678
33; 682.2; 24-MAY-2004 21:50:56; Dark ; 47.0; 43; Alp TrA ; 1.91; 4250;occ; 94; 0;11678
34; 809.3; 24-MAY-2004 21:53:03; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;11678
35; 898.6; 24-MAY-2004 21:54:33; Dark ; 47.5; 4; Alp1Cen ;-0.01; 5800;occ; 95; 0;11678
36; 987.2; 24-MAY-2004 21:56:01; Dark ; 51.0; 40; The Sco ; 1.86; 7100;occ; 102; 0;11678
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3;-4199.6; 25-MAY-2004 06:33:10; Bright; 43.5; 120; 1Del Oph ; 2.73; 3200;occ; 87; 0;11683
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7;-3478.0; 25-MAY-2004 06:45:12; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;11683
8;-3284.8; 25-MAY-2004 06:48:25; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;11683
9;-3180.6; 25-MAY-2004 06:50:09; Bright; 38.0; 55; 79Zet UMa ; 2.06; 10200;occ; 76; 0;11683
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18;-1226.5; 25-MAY-2004 07:22:43; Dark ; 48.5; 140; 88Gam Peg ; 2.83; 26000;occ; 97; 0;11683
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