

# GOMOS Daily Report 14-JUN-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	15JUN2004 03:42:30
Data source version	GOMOS/4.02
Start time of products	14-JUN-2004 (14JUN2004 00:00:00)
Stop time of products	15-JUN-2004 (15JUN2004 00:00:00)

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

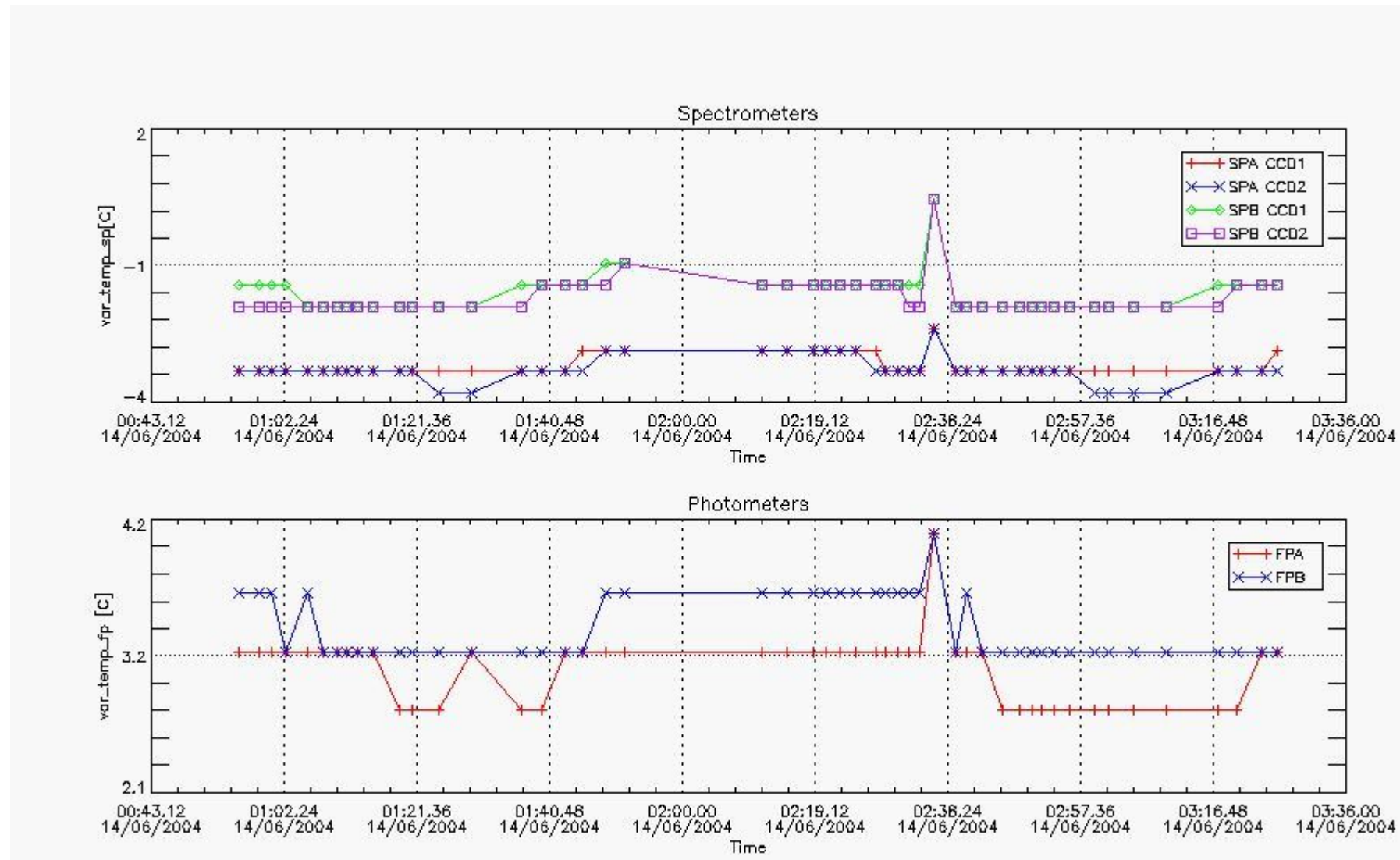
## 2. Summary of products arrived in PCF

### 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_1PNPDE20040614_005545_000000622027_00389_11966_0000.N1	14-JUN-2004 00:55:45	Bright	61.500	155	41Pi Sgr	2.9000	6600.0	123	11966	No
GOM_TRA_1PNPDE20040614_005852_000000402027_00389_11966_0001.N1	14-JUN-2004 00:58:52	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	11966	No
GOM_TRA_1PNPDE20040614_010037_000000402027_00389_11966_0002.N1	14-JUN-2004 01:00:37	Bright	39.500	98	13Zet Oph	2.5710	30000.	79	11966	No
GOM_TRA_1PNPDE20040614_010242_000000392027_00389_11966_0003.N1	14-JUN-2004 01:02:42	Bright	39.000	120	1Del Oph	2.7340	3200.0	78	11966	No
GOM_TRA_1PNPDE20040614_010542_000000402027_00389_11966_0004.N1	14-JUN-2004 01:05:42	Bright	39.500	102	24Alp Ser	2.6000	4250.0	79	11966	No
GOM_TRA_1PNPDE20040614_010807_000000452027_00389_11966_0005.N1	14-JUN-2004 01:08:07	Bright	45.000	59	55Alp Oph	2.0800	8900.0	90	11966	No
GOM_TRA_1PNPDE20040614_010959_000000402027_00389_11966_0006.N1	14-JUN-2004 01:09:59	Bright	40.000	127	27Bet Her	2.7810	4700.0	80	11966	No
GOM_TRA_1PNPDE20040614_011127_000000382027_00389_11966_0007.N1	14-JUN-2004 01:11:27	Bright	38.000	67	5Alp CrB	2.2210	11000.	76	11966	No
GOM_TRA_1PNPDE20040614_011304_000000412027_00389_11966_0008.N1	14-JUN-2004 01:13:04	Bright	41.000	133	40Zet Her	2.8070	6000.0	82	11966	No
GOM_TRA_1PNPDE20040614_011520_000000372027_00389_11966_0009.N1	14-JUN-2004 01:15:20	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	11966	No
GOM_TRA_1PNPDE20040614_011904_000000402027_00389_11966_0010.N1	14-JUN-2004 01:19:04	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	11966	No
GOM_TRA_1PNPDE20040614_012057_000000372027_00389_11966_0011.N1	14-JUN-2004 01:20:57	Bright	36.500	55	79Zet UMa	2.0600	10200.	73	11966	No
GOM_TRA_1PNPDE20040614_012448_000000372027_00389_11966_0012.N1	14-JUN-2004 01:24:48	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	11966	No
GOM_TRA_1PNPDE20040614_012927_000000362027_00389_11966_0013.N1	14-JUN-2004 01:29:27	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	11966	No
GOM_TRA_1PNPDE20040614_013647_000000642027_00389_11966_0014.N1	14-JUN-2004 01:36:47	Bright	64.000	74	11Bet Cas	2.2680	6600.0	128	11966	No
GOM_TRA_1PNPDE20040614_013939_000000442027_00389_11966_0015.N1	14-JUN-2004 01:39:39	Bright	44.000	160	23Gam Per	2.9300	4700.0	88	11966	No
GOM_TRA_1PNPDE20040614_014310_000000422027_00389_11966_0016.N1	14-JUN-2004 01:43:10	Twilight	42.000	73	57Gam1And	2.2600	13100.	84	11966	No
GOM_TRA_1PNPDE20040614_014531_000000582027_00389_11966_0017.N1	14-JUN-2004 01:45:31	Twilight	58.000	53	43Bet And	2.0480	3300.0	116	11966	No
GOM_TRA_1PNPDE20040614_014856_000000572027_00389_11966_0018.N1	14-JUN-2004 01:48:56	Twilight	56.500	50	13Alp Ari	2.0070	4250.0	113	11966	No
GOM_TRA_1PNPDE20040614_015139_000001872027_00389_11966_0019.N1	14-JUN-2004 01:51:39	Dark	187.00	93	53Bet Peg	2.5200	3100.0	374	11966	No
GOM_TRA_1PNPDE20040614_021134_000000462027_00389_11966_0020.N1	14-JUN-2004 02:11:34	Dark	46.000	9	Alp Eri	0.45300	24000.	92	11966	No
GOM_TRA_1PNPDE20040614_021514_000000692027_00390_11967_0021.N1	14-JUN-2004 02:15:14	Dark	68.500	18	24Alp PsA	1.1660	9700.0	137	11967	No
GOM_TRA_1PNPDE20040614_021852_000000522027_00390_11967_0022.N1	14-JUN-2004 02:18:52	Dark	51.500	31	Alp Gru	1.7340	15200.	103	11967	No
GOM_TRA_1PNPDE20040614_022040_000000602027_00390_11967_0023.N1	14-JUN-2004 02:20:40	Dark	60.000	172	Gam Gru	3.0030	13100.	120	11967	No
GOM_TRA_1PNPDE20040614_022250_000000462027_00390_11967_0024.N1	14-JUN-2004 02:22:50	Twilight	46.000	45	Alp Pav	1.9400	26000.	92	11967	No
GOM_TRA_1PNPDE20040614_022500_000000442027_00390_11967_0025.N1	14-JUN-2004 02:25:00	Twilight	44.000	43	Alp TrA	1.9100	4250.0	88	11967	No
GOM_TRA_1PNPDE20040614_022757_000000442027_00390_11967_0026.N1	14-JUN-2004 02:27:57	Bright	43.500	141	Bet Ara	2.8400	4600.0	87	11967	No
GOM_TRA_1PNPDE20040614_022920_000000402027_00390_11967_0027.N1	14-JUN-2004 02:29:20	Bright	40.000	147	Alp Ara	2.8770	26000.	80	11967	No
GOM_TRA_1PNPDE20040614_023106_000000472027_00390_11967_0028.N1	14-JUN-2004 02:31:06	Bright	46.500	40	The Sco	1.8590	7100.0	93	11967	No
GOM_TRA_1PNPDE20040614_023248_000000462027_00390_11967_0029.N1	14-JUN-2004 02:32:48	Bright	46.000	25	35Lam Sco	1.6200	28000.	92	11967	No
GOM_TRA_1PNPDE20040614_023415_000000472027_00390_11967_0030.N1	14-JUN-2004 02:34:15	Bright	46.500	75	26Eps Sco	2.2910	4250.0	93	11967	No
GOM_TRA_1PNPDE20040614_023622_000000622027_00390_11967_0000.N1	14-JUN-2004 02:36:22	Bright	61.500	155	41Pi Sgr	2.9000	6600.0	123	11967	Yes
GOM_TRA_1PNPDE20040614_023928_000000412027_00390_11967_0001.N1	14-JUN-2004 02:39:28	Bright	41.000	86	35Eta Oph	2.4300	10200.	82	11967	No
GOM_TRA_1PNPDE20040614_024113_000000392027_00390_11967_0002.N1	14-JUN-2004 02:41:13	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	11967	No
GOM_TRA_1PNPDE20040614_024318_000000402027_00390_11967_0003.N1	14-JUN-2004 02:43:18	Bright	39.500	120	1Del Oph	2.7340	3200.0	79	11967	No
GOM_TRA_1PNPDE20040614_024618_000000402027_00390_11967_0004.N1	14-JUN-2004 02:46:18	Bright	39.500	102	24Alp Ser	2.6000	4250.0	79	11967	No
GOM_TRA_1PNPDE20040614_024842_000000442027_00390_11967_0005.N1	14-JUN-2004 02:48:42	Bright	43.500	59	55Alp Oph	2.0800	8900.0	87	11967	No
GOM_TRA_1PNPDE20040614_025034_000000402027_00390_11967_0006.N1	14-JUN-2004 02:50:34	Bright	39.500	127	27Bet Her	2.7810	4700.0	79	11967	No
GOM_TRA_1PNPDE20040614_025200_000000402027_00390_11967_0007.N1	14-JUN-2004 02:52:00	Bright	39.500	67	5Alp CrB	2.2210	11000.	79	11967	No
GOM_TRA_1PNPDE20040614_025338_000000402027_00390_11967_0008.N1	14-JUN-2004 02:53:38	Bright	39.500	133	40Zet Her	2.8070	6000.0	79	11967	No
GOM_TRA_1PNPDE20040614_025556_000000382027_00390_11967_0009.N1	14-JUN-2004 02:55:56	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	11967	No
GOM_TRA_1PNPDE20040614_025940_000000352027_00390_11967_0010.N1	14-JUN-2004 02:59:40	Bright	35.000	39	85Eta UMa	1.8540	24000.	70	11967	No
GOM_TRA_1PNPDE20040614_030133_000000392027_00390_11967_0011.N1	14-JUN-2004 03:01:33	Bright	39.000	55	79Zet UMa	2.0600	10200.	78	11967	No
GOM_TRA_1PNPDE20040614_030522_000000372027_00390_11967_0012.N1	14-JUN-2004 03:05:22	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	11967	No
GOM_TRA_1PNPDE20040614_031002_000000392027_00390_11967_0013.N1	14-JUN-2004 03:10:02	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	11967	No
GOM_TRA_1PNPDE20040614_031722_000000452027_00390_11967_0014.N1	14-JUN-2004 03:17:22	Bright	45.000	74	11Bet Cas	2.2680	6600.0	90	11967	No
GOM_TRA_1PNPDE20040614_032015_000000522027_00390_11967_0015.N1	14-JUN-2004 03:20:15	Bright	52.000	160	23Gam Per	2.9300	4700.0	104	11967	No
GOM_TRA_1PNPDE20040614_032345_000000442027_00390_11967_0016.N1	14-JUN-2004 03:23:45	Twilight	43.500	73	57Gam1And	2.2600	13100.	87	11967	No
GOM_TRA_1PNPDE20040614_032607_000000552027_00390_11967_0017.N1	14-JUN-2004 03:26:07	Twilight	54.500	53	43Bet And	2.0480	3300.0	109	11967	No

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



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

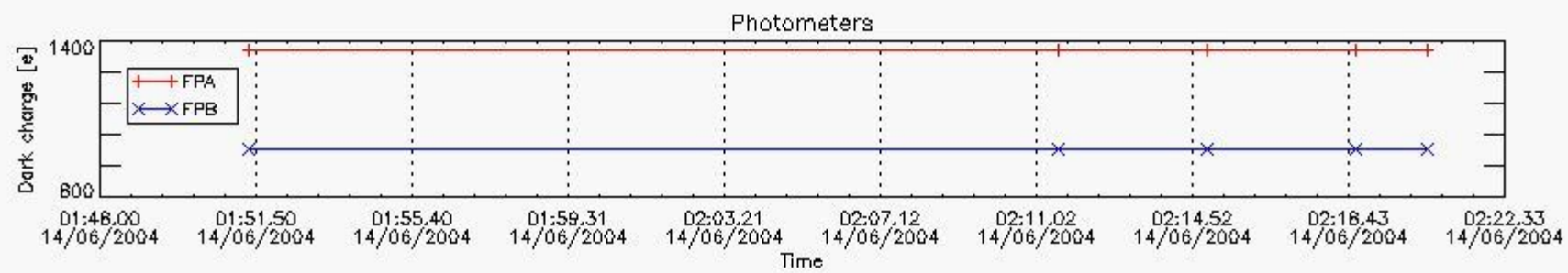
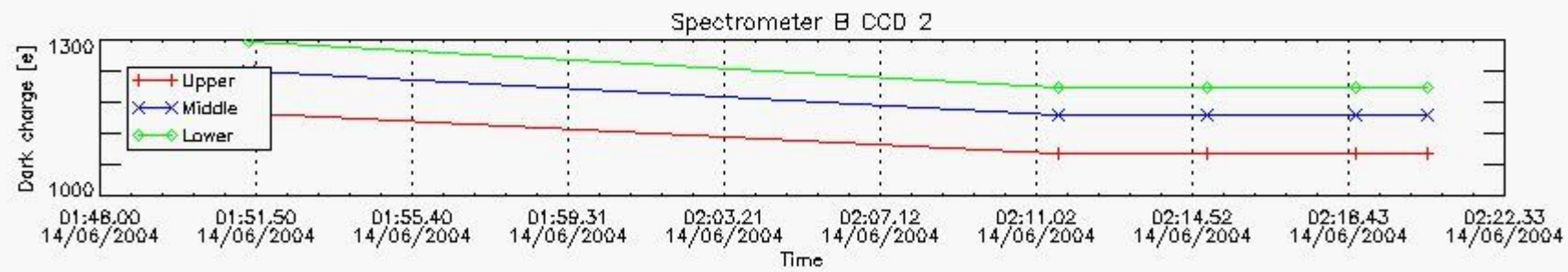
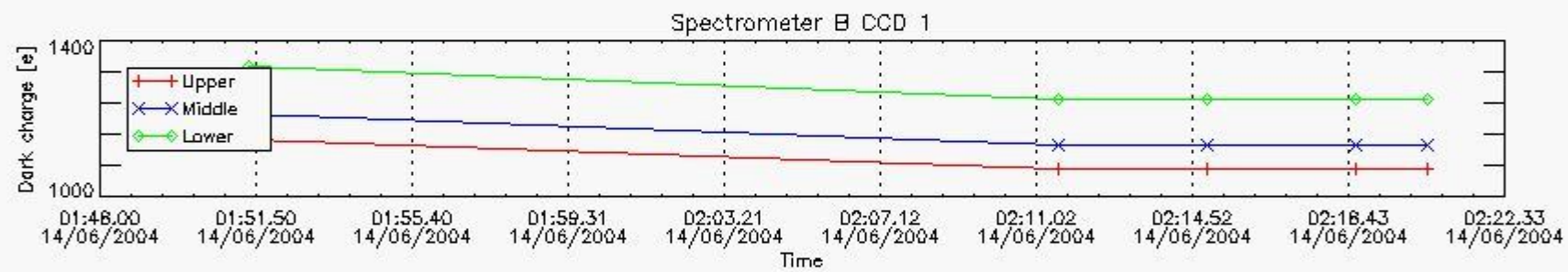
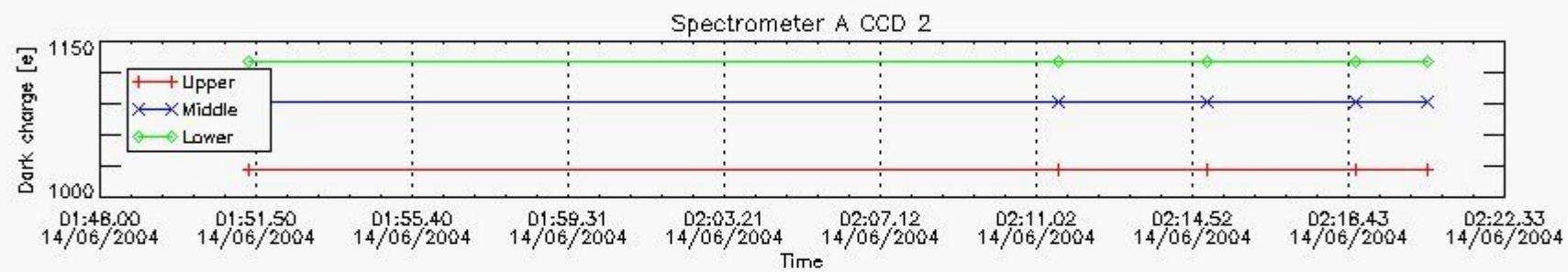
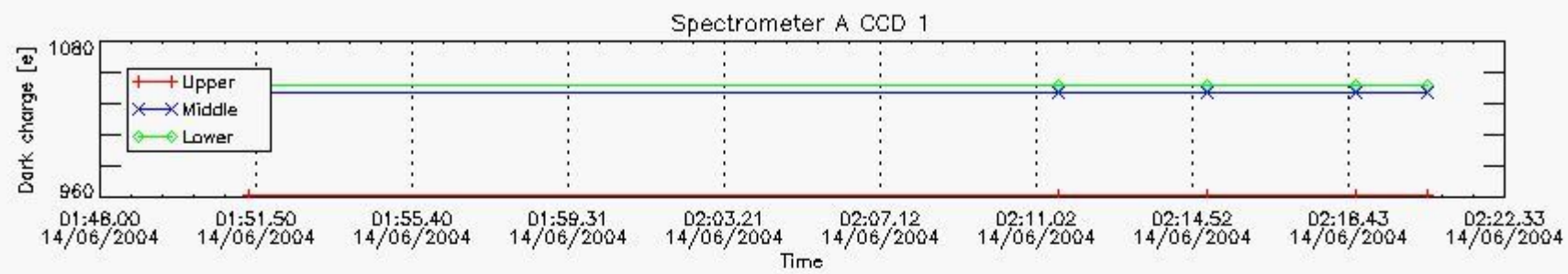
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





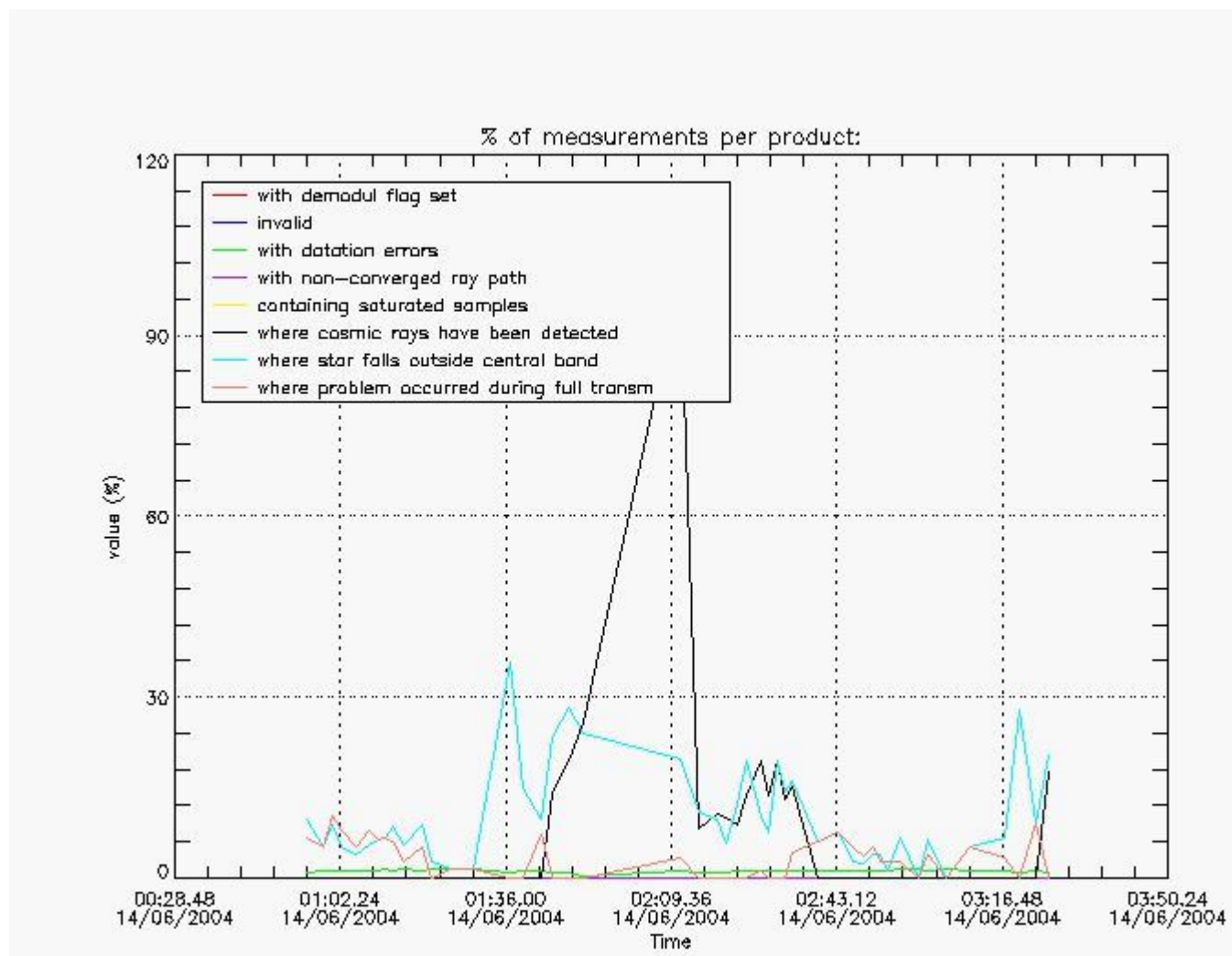
## 5. Demodulation flag and quality information monitoring

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:

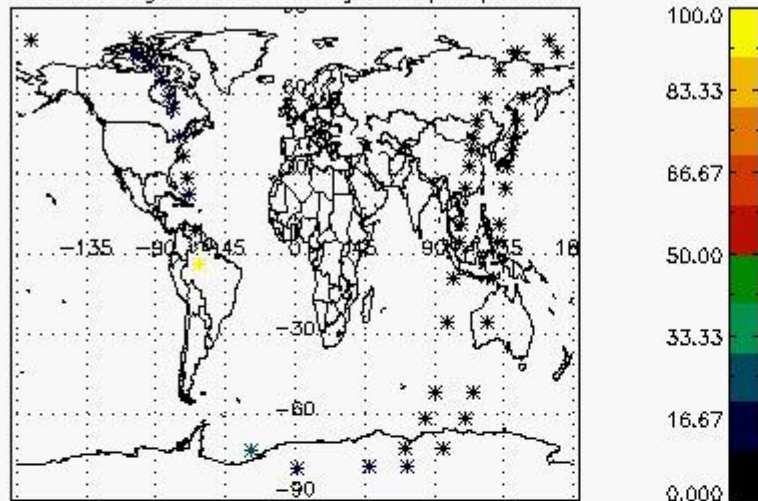
At least one measurement with demodulation flag set:	4.16667 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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

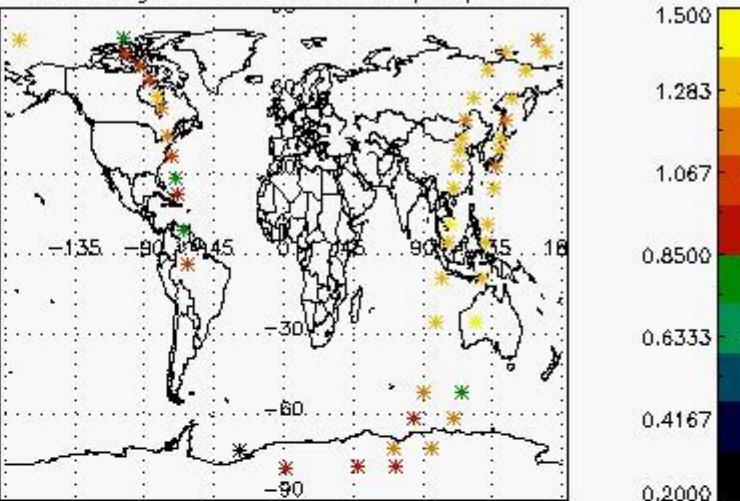


### 5.3 Plot quality information per product (world map)

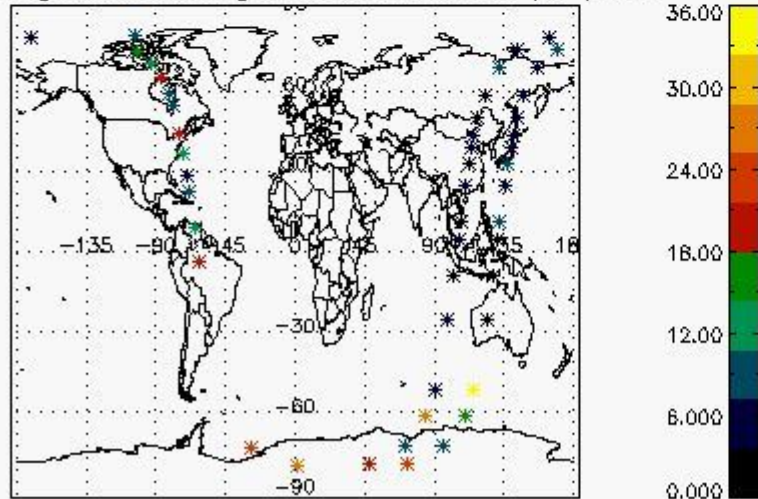
Percentage of cosmic ray hits per profile



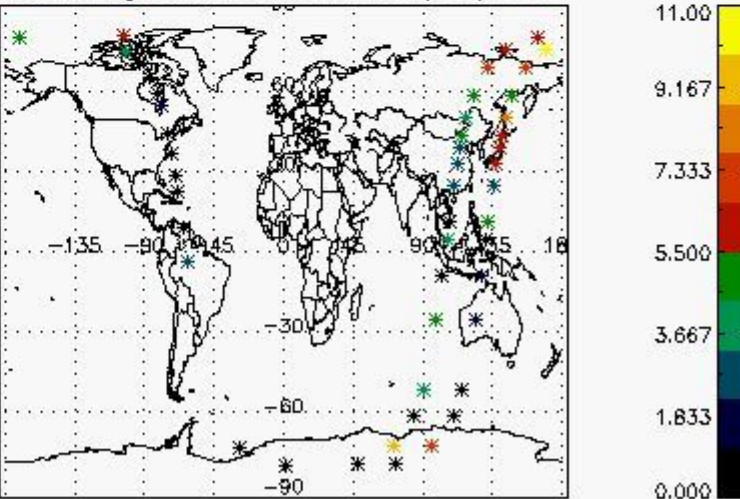
Percentage of datation errors per profile



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)

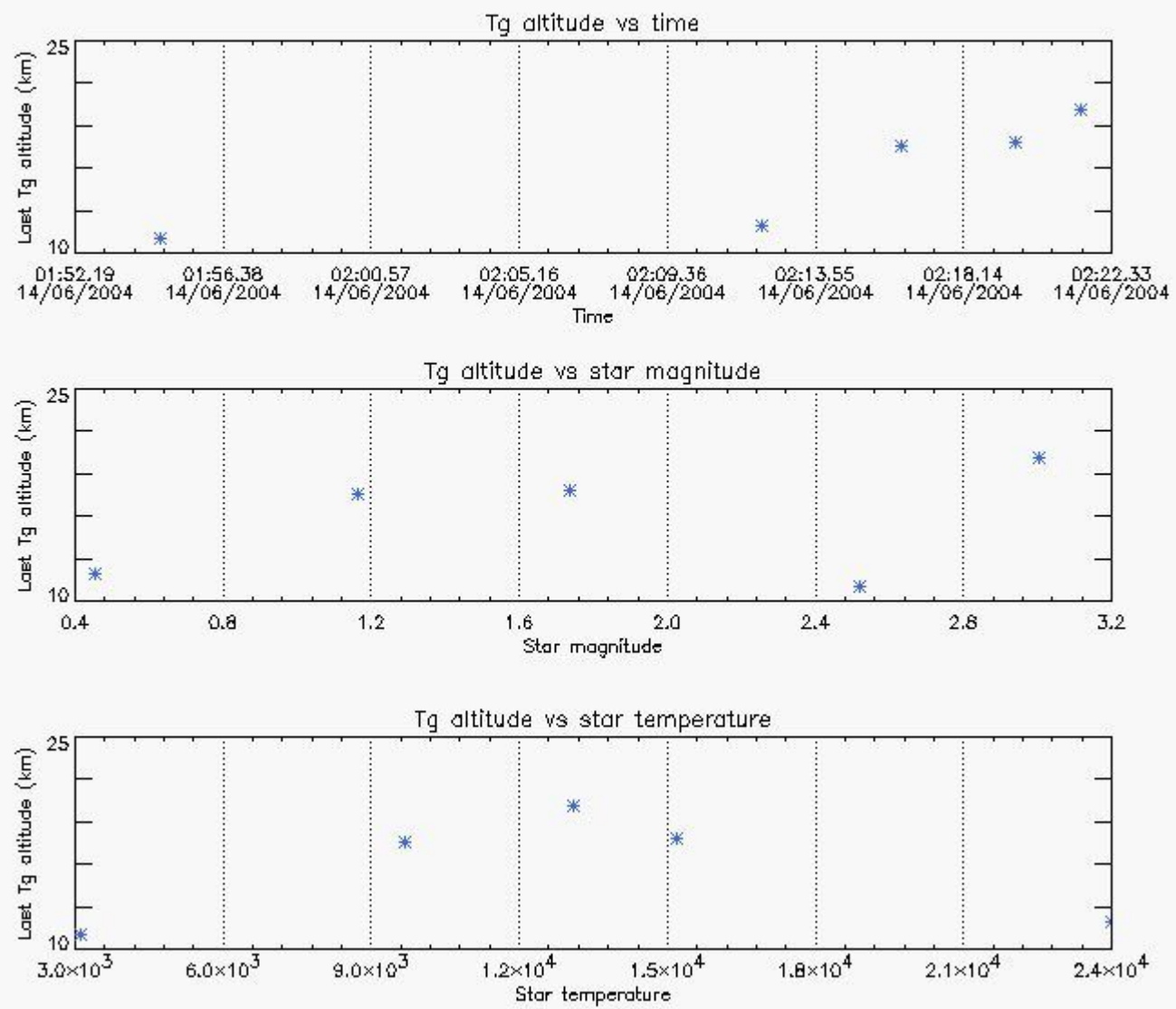
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.675	19.917	13.302
St. deviation:	4.0141	5.0477	4.5343
Maximum:	20.129	29.971	18.594
Minimum:	10.994	3.7453	6.3095
Number of data:	5.0000	36.000	7.0000

### 6.2 Plot for DARK limb products

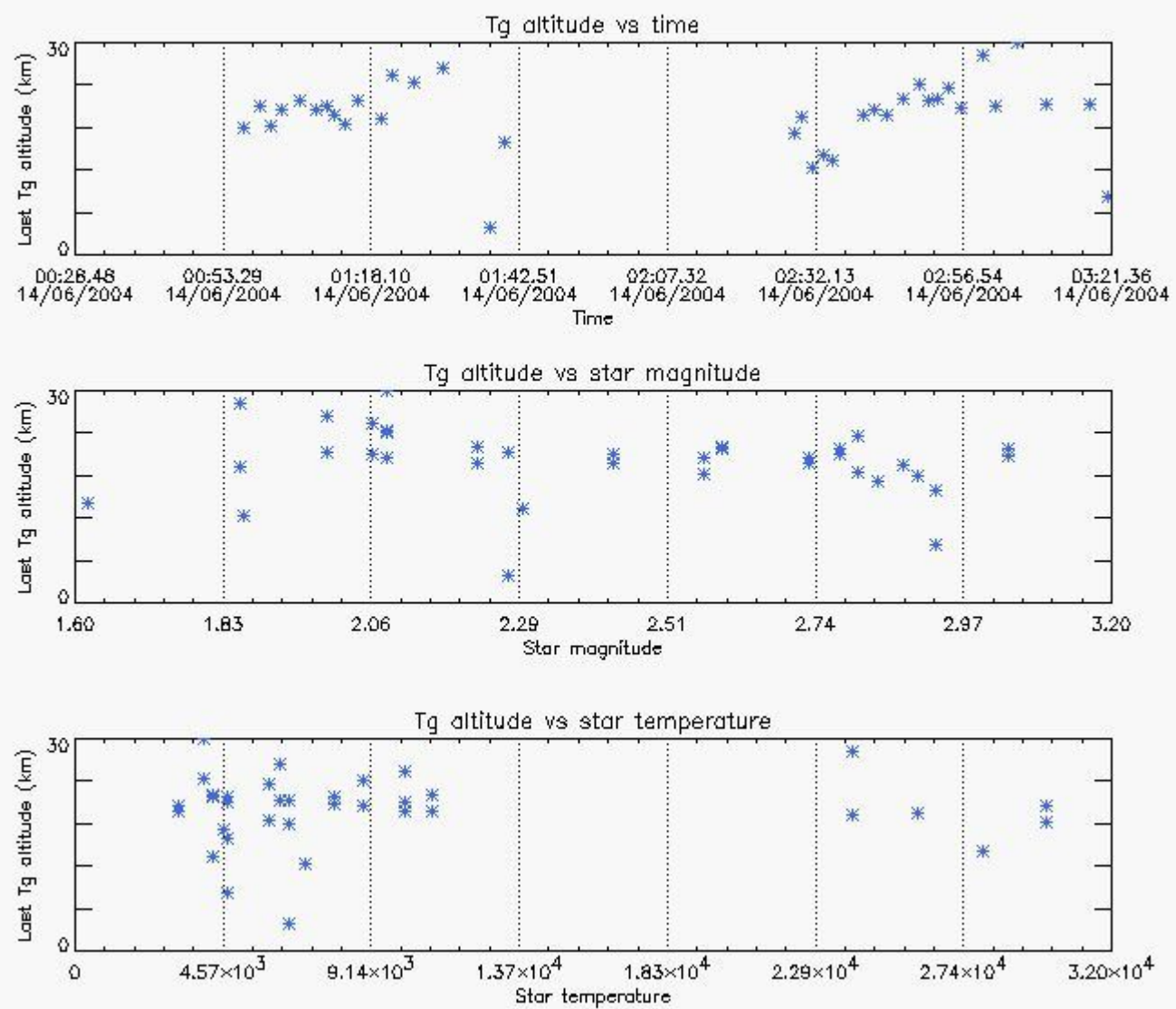


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

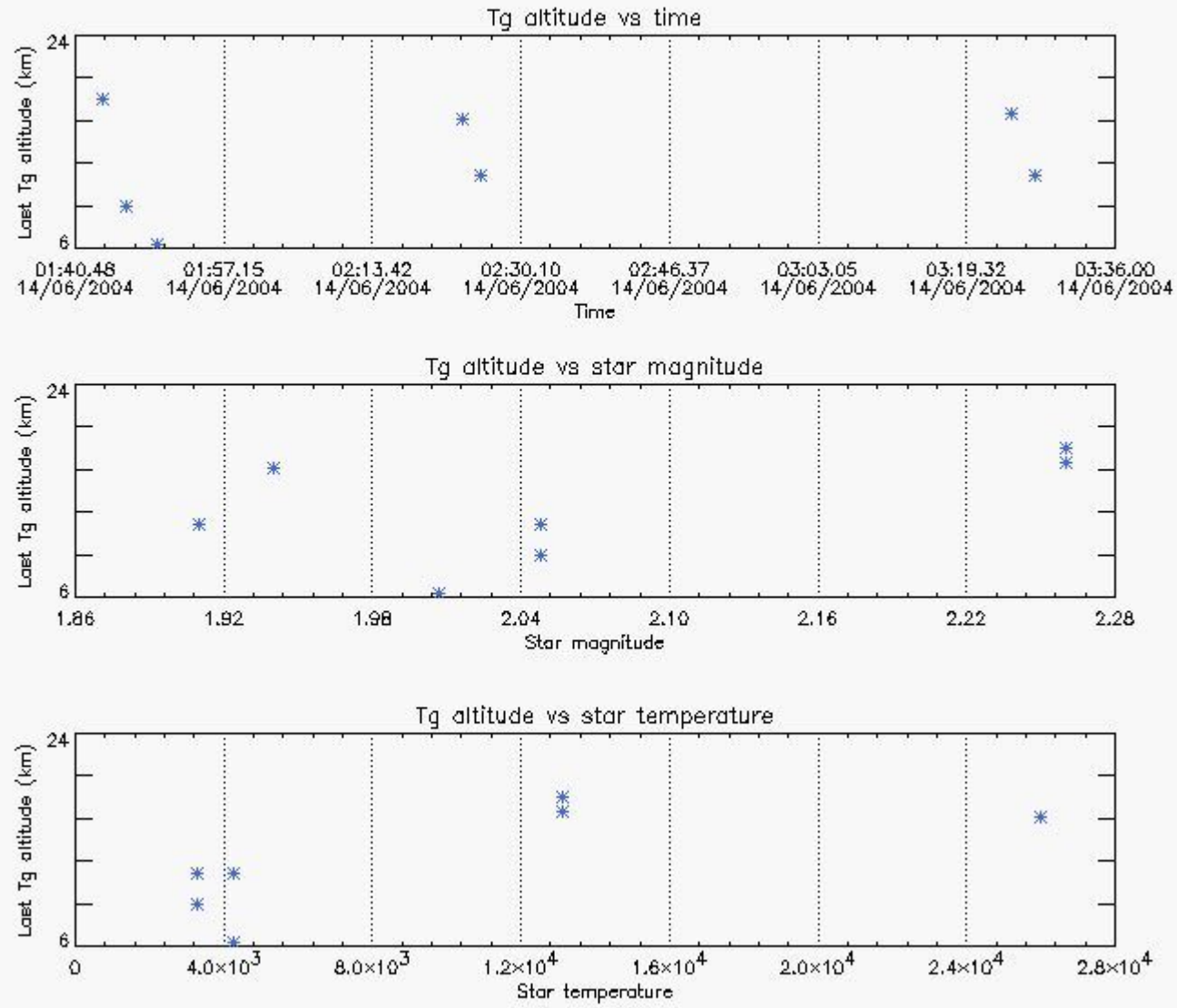
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



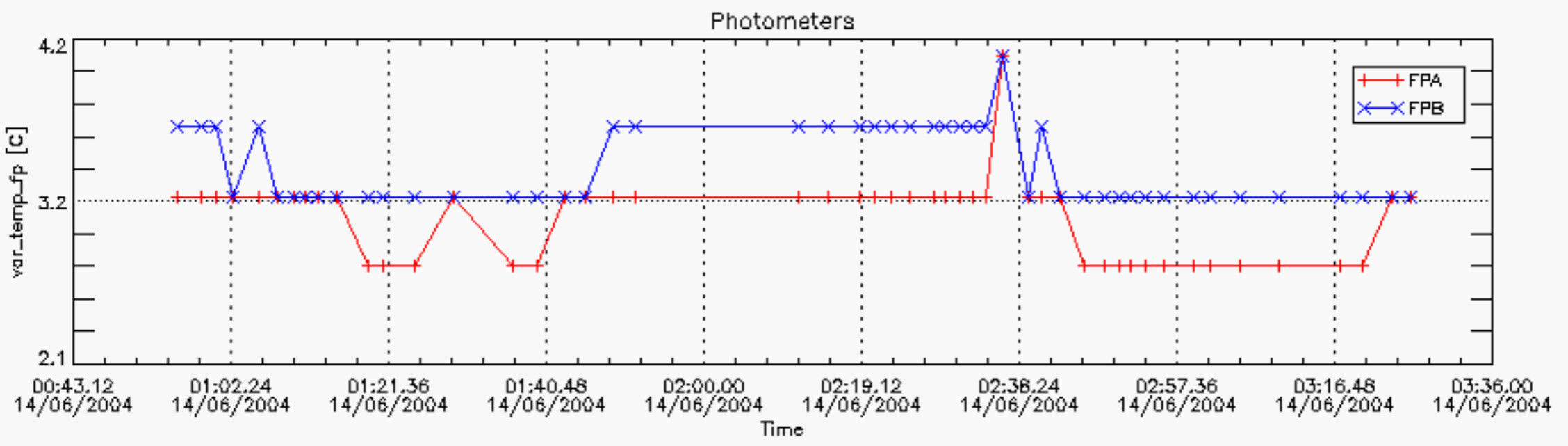
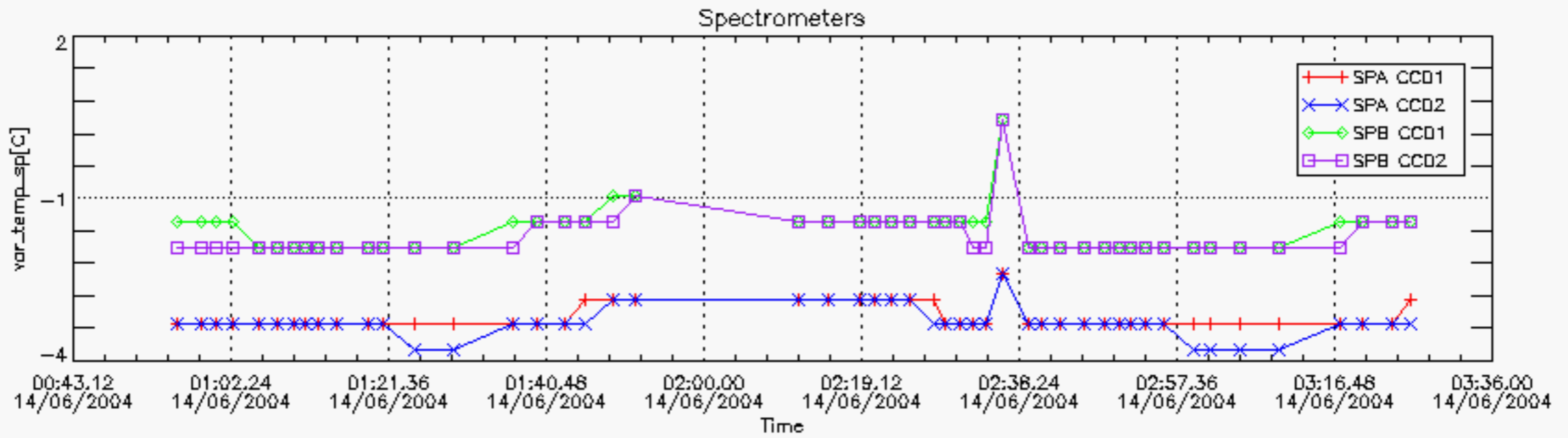
Tangent altitude at which the star is lost

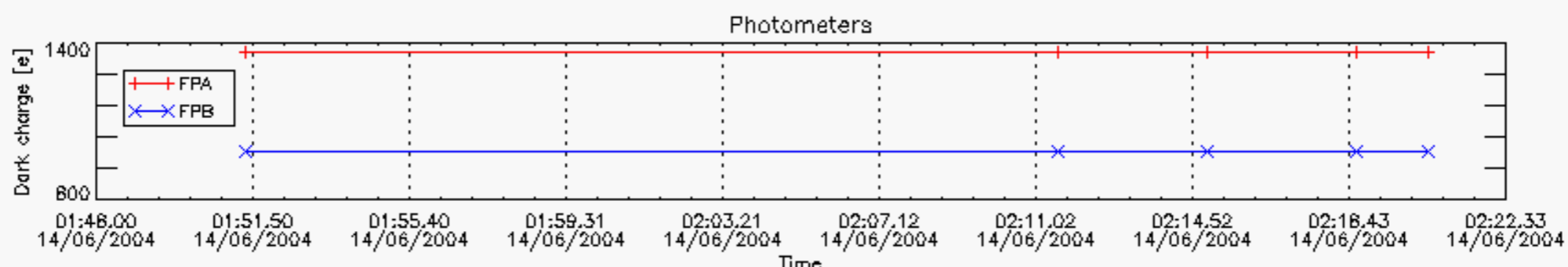
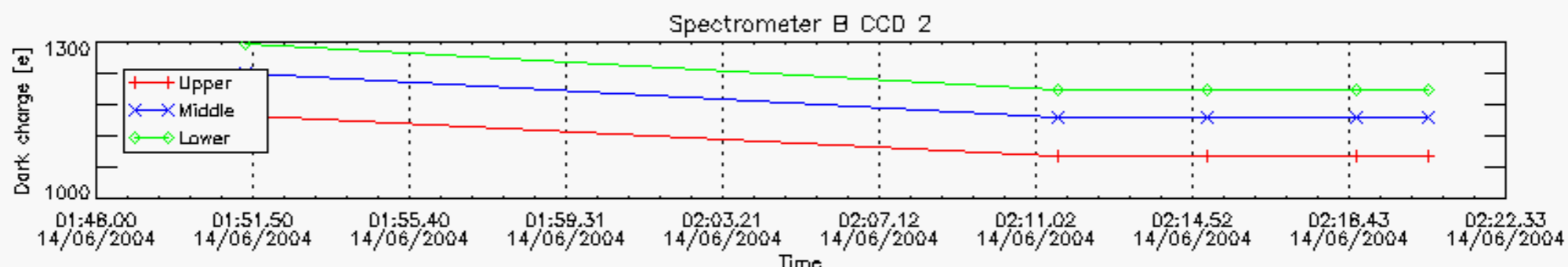
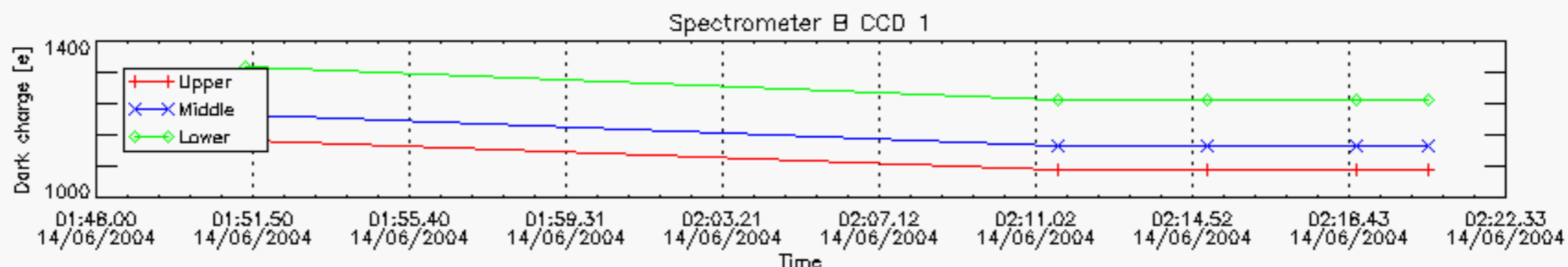
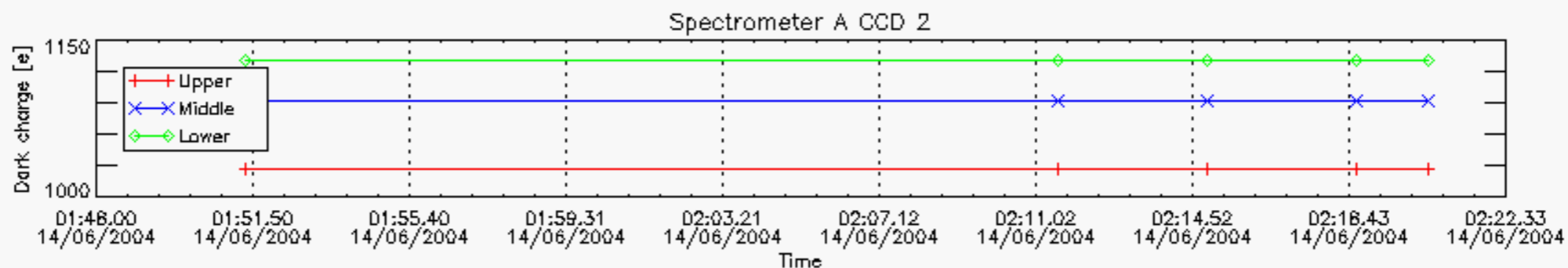
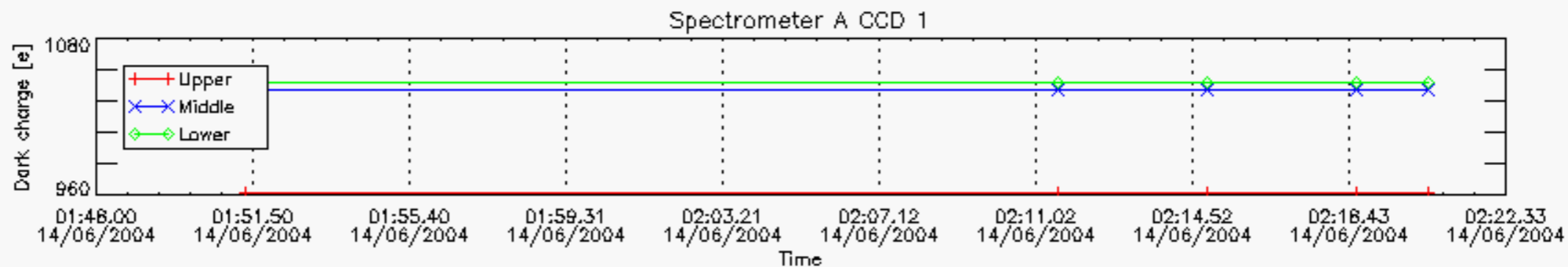


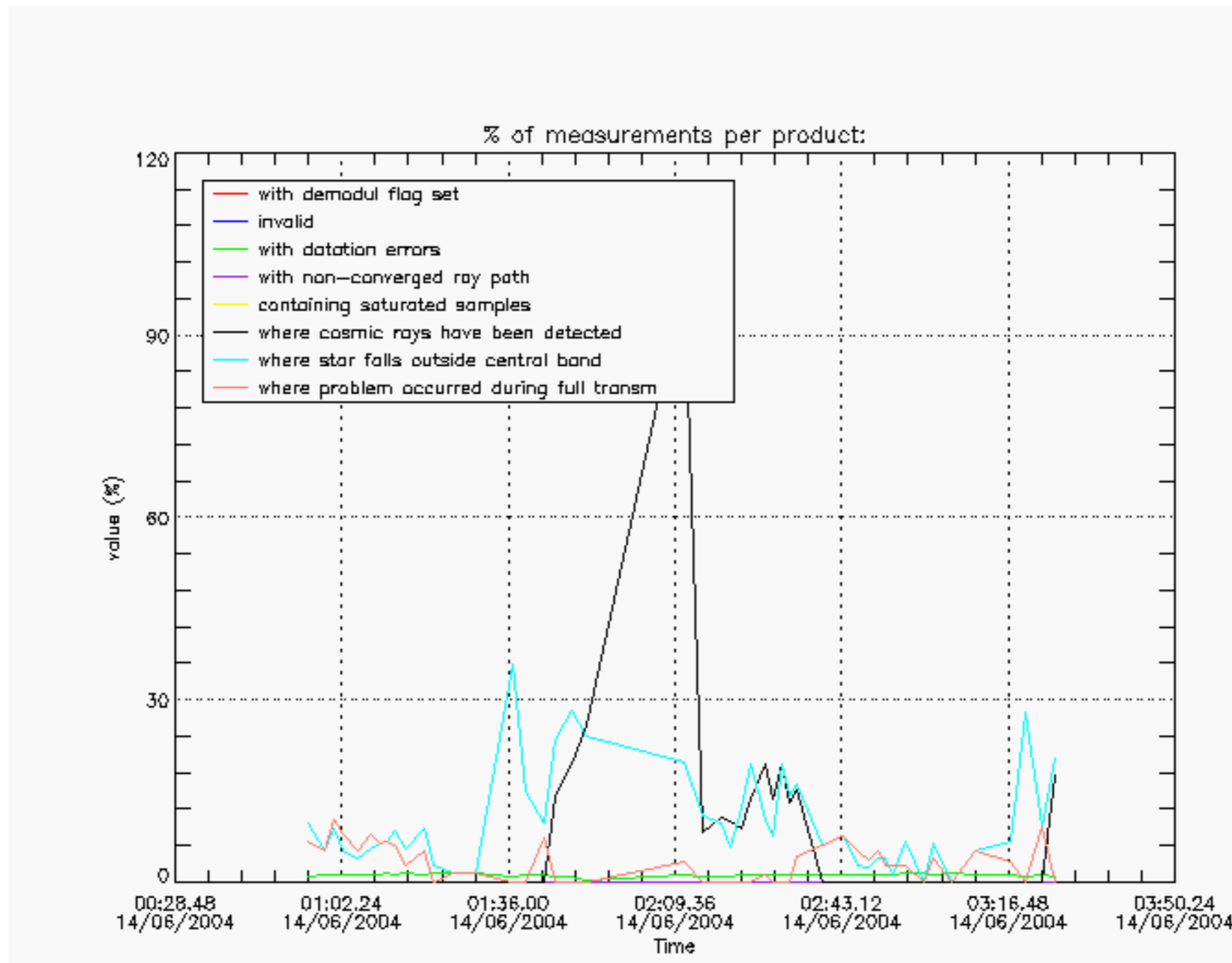
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1462.6	1450.7	1461.2	1446.3
St. deviation:	4.7590	6.0555	7.4461	8.4435
Maximum:	1508.0	1494.0	1507.0	1495.0
Minimum:	1427.0	1404.0	1432.0	1414.0
Number of data:	9300.0	9300.0	41400.	41400.

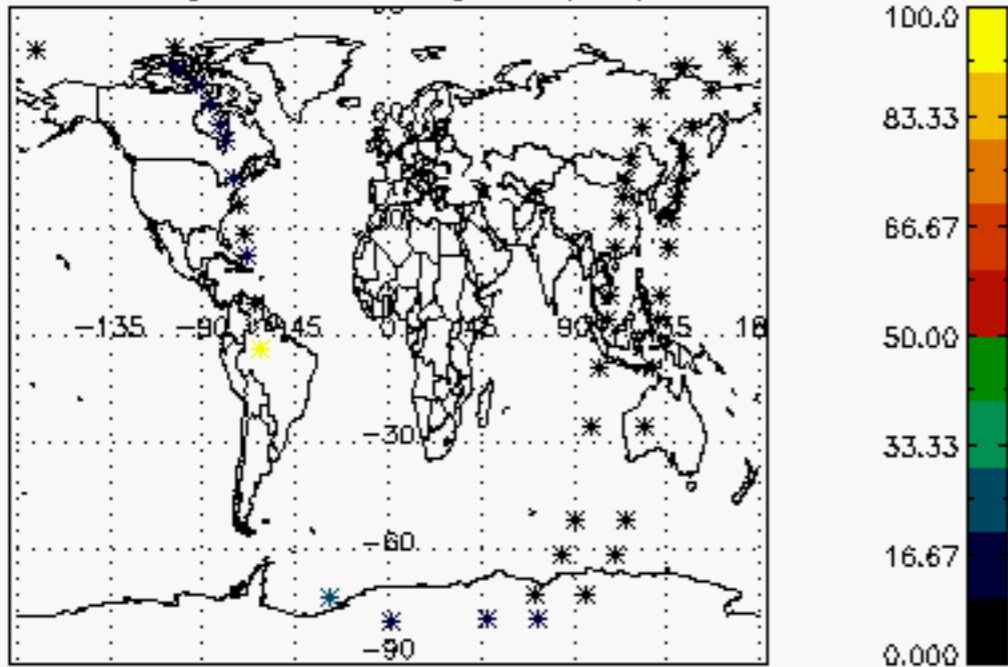




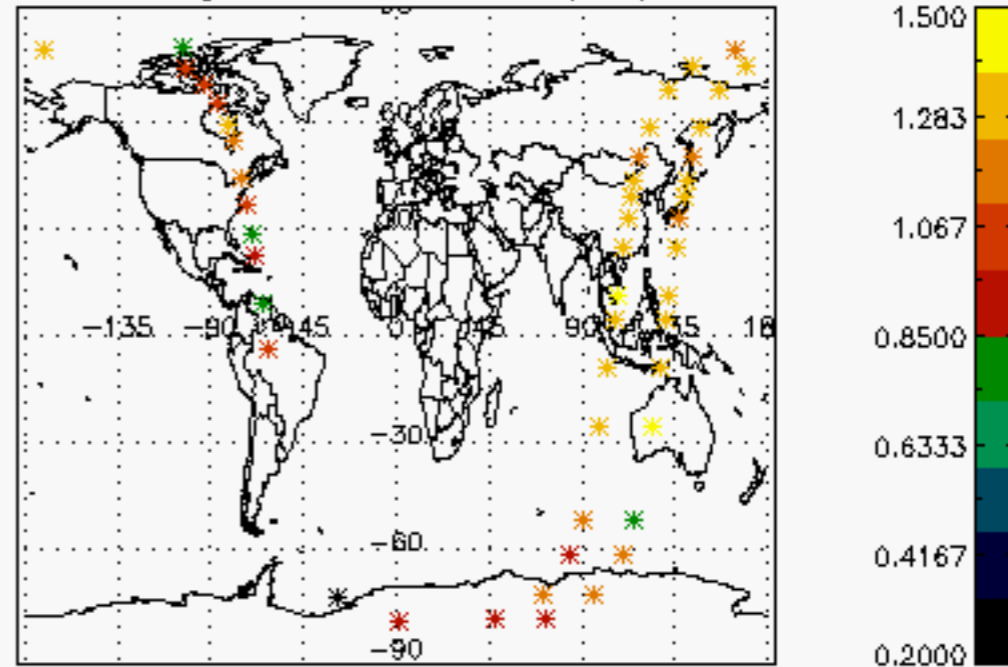




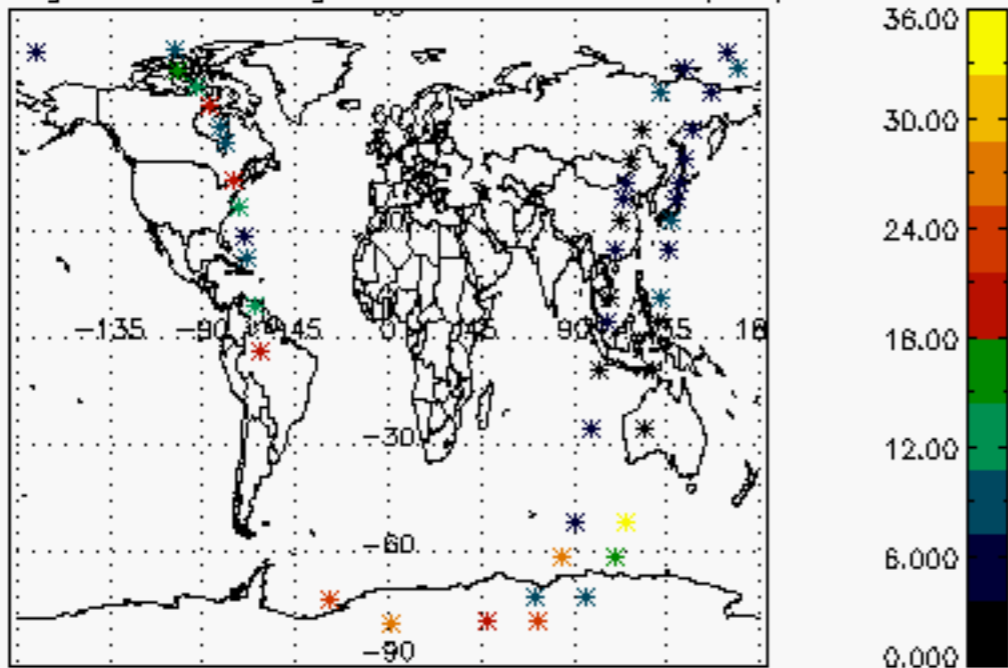
Percentage of cosmic ray hits per profile



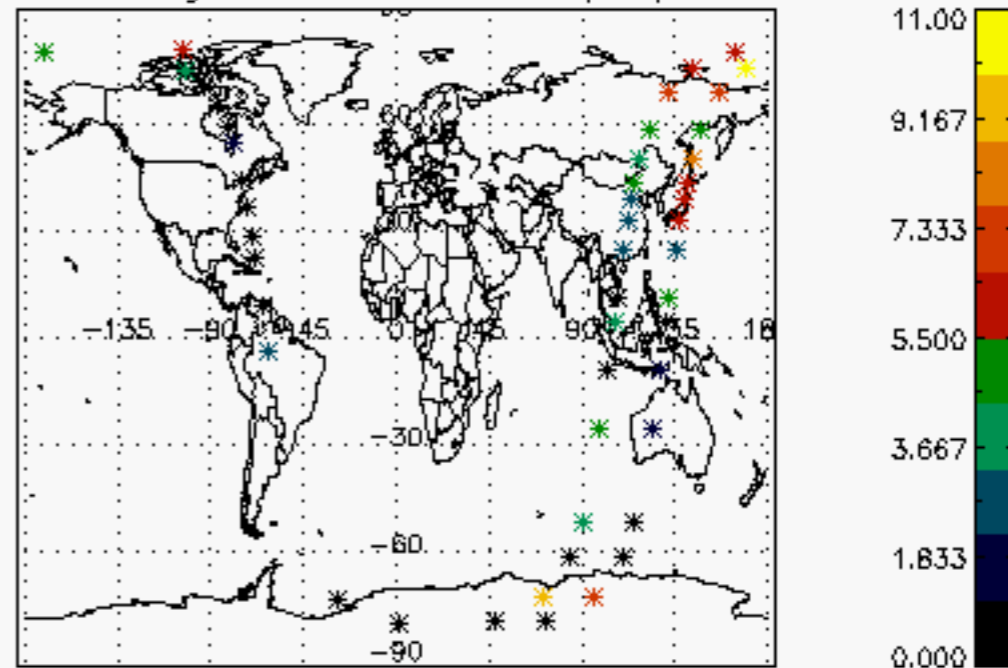
Percentage of datation errors per profile



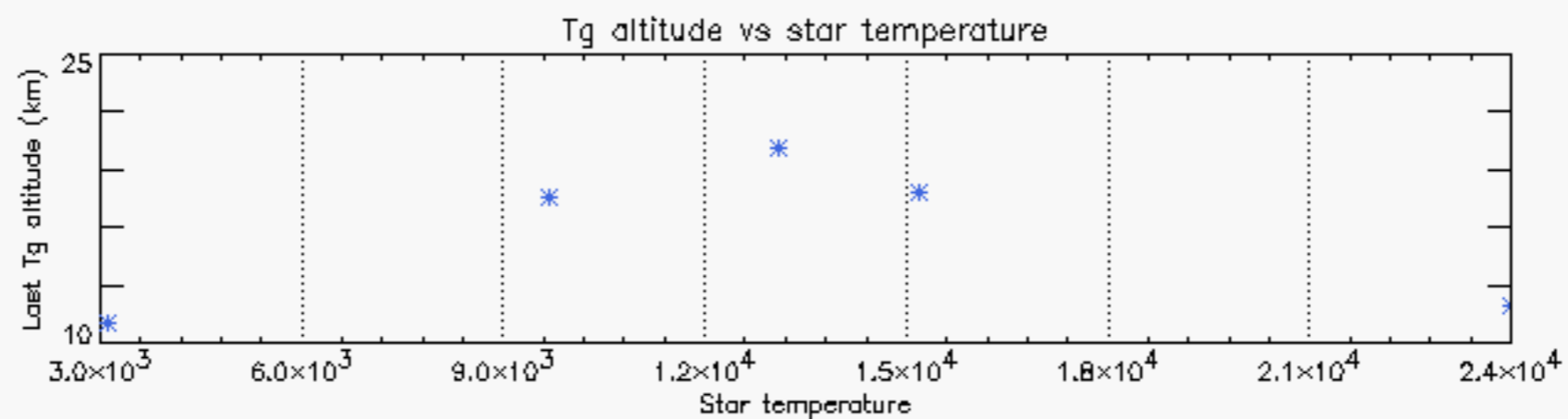
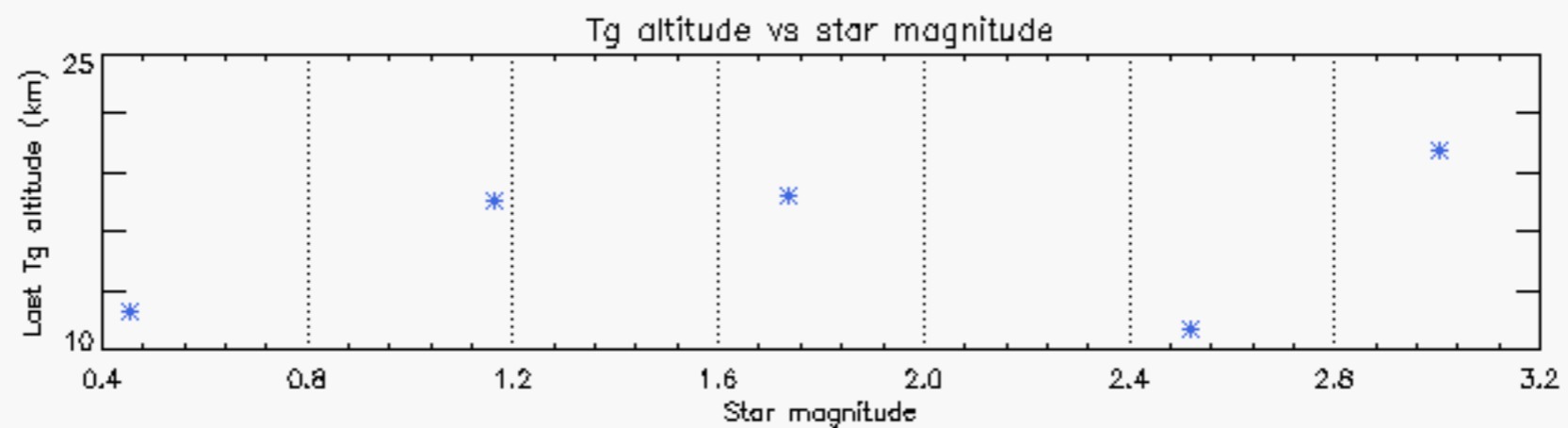
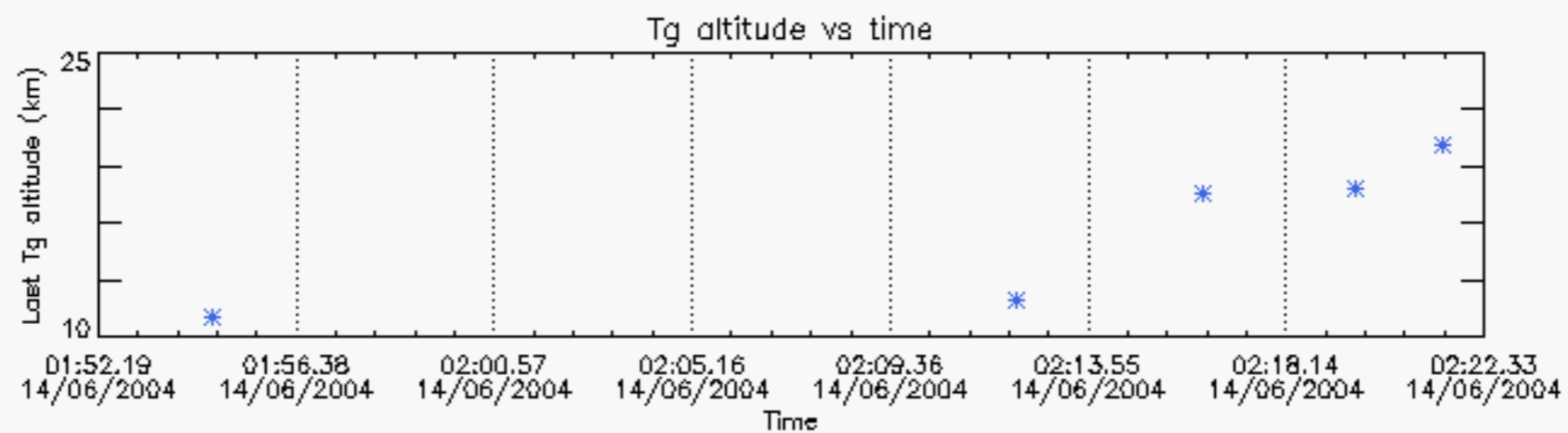
Percentage of star falling outside central band per profile



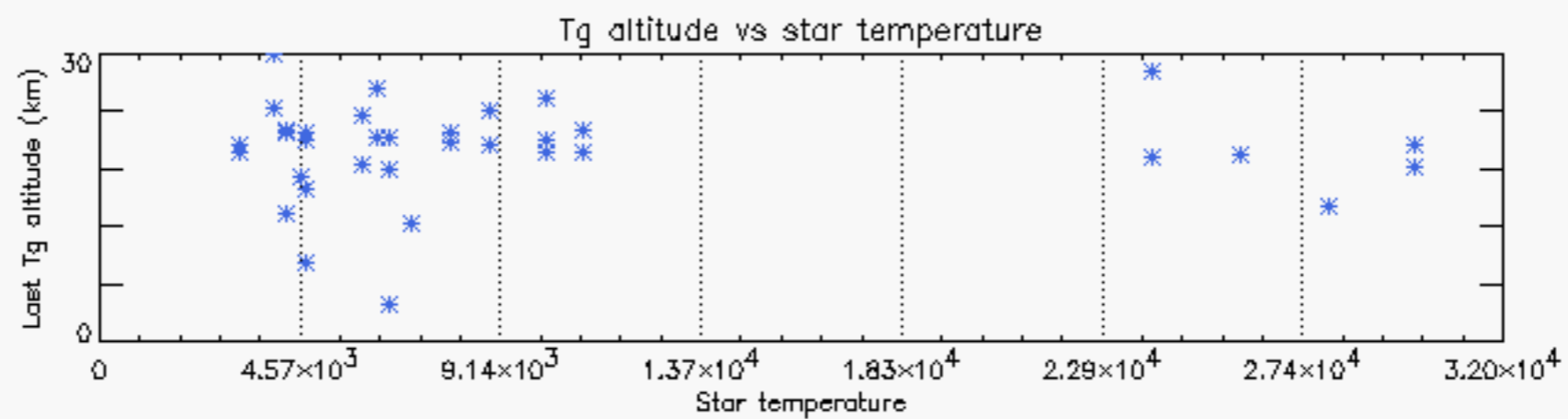
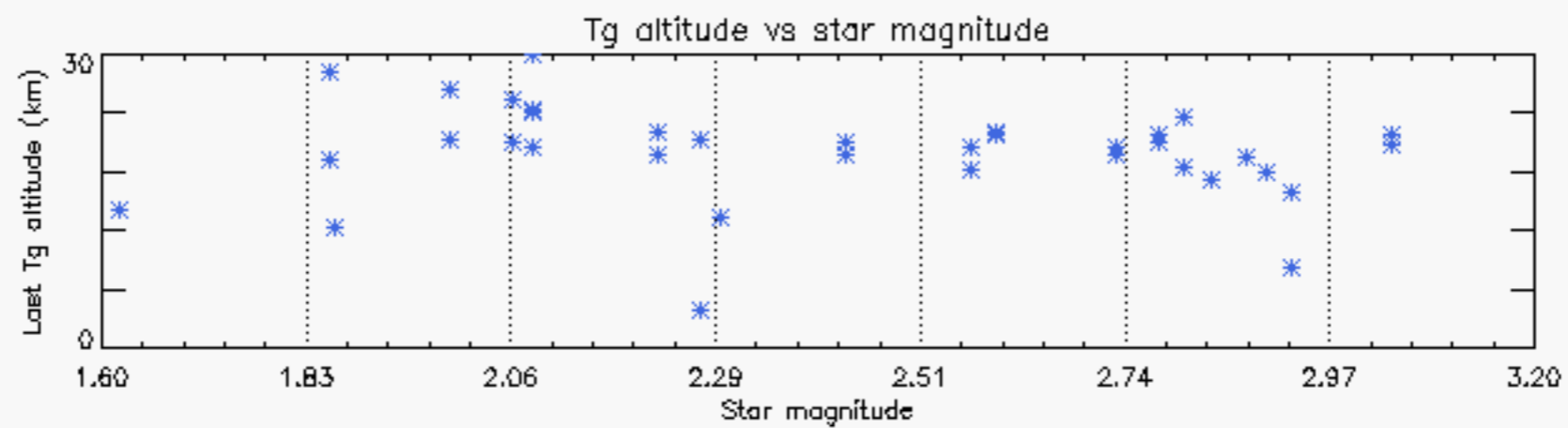
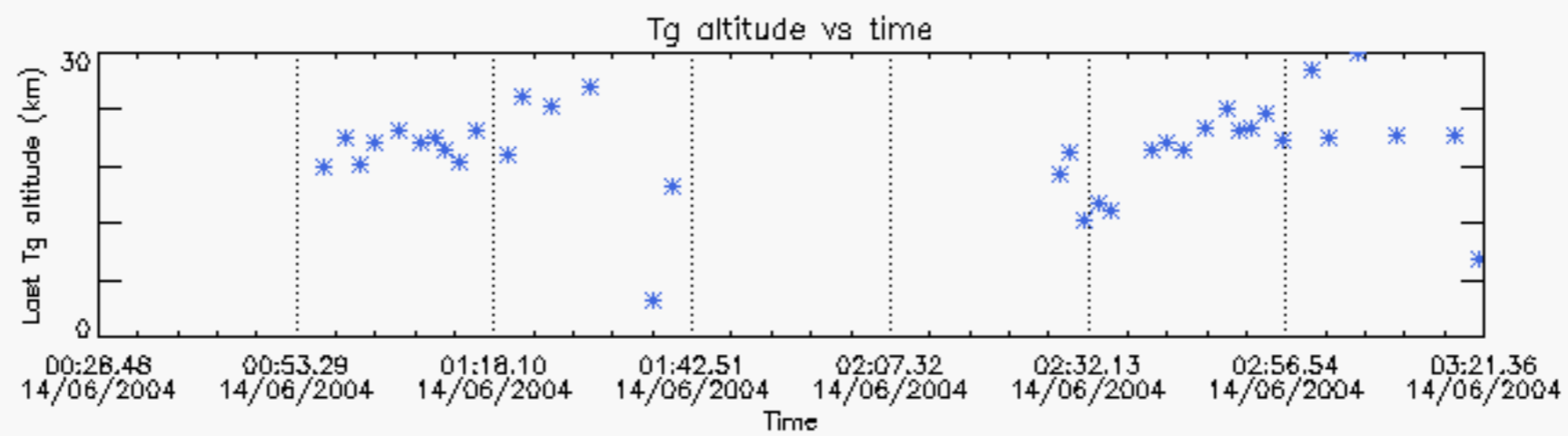
Percentage of saturation errors per profile



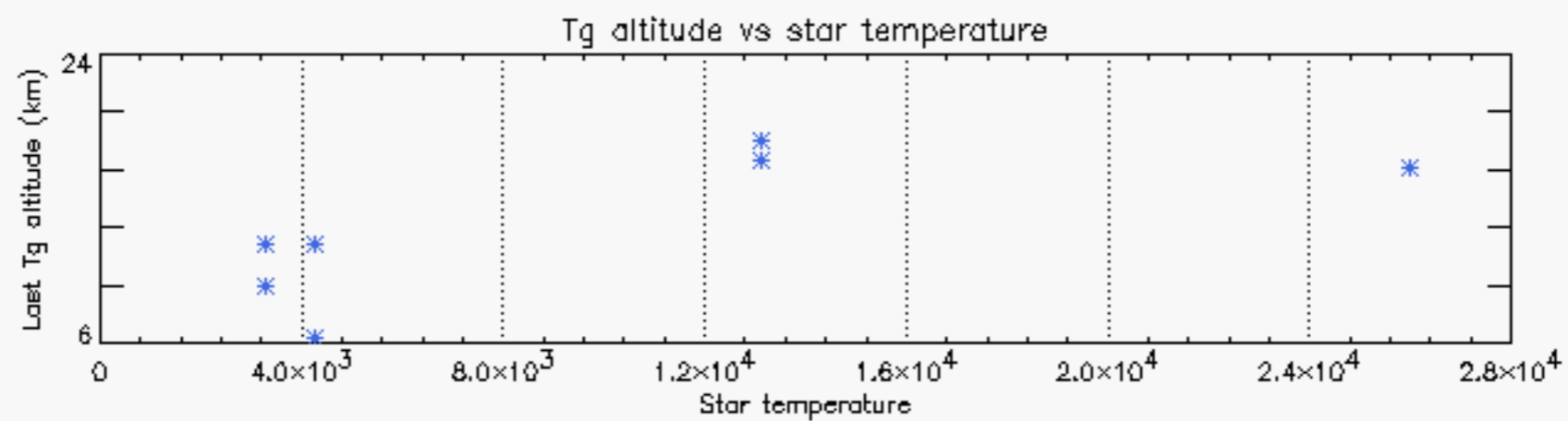
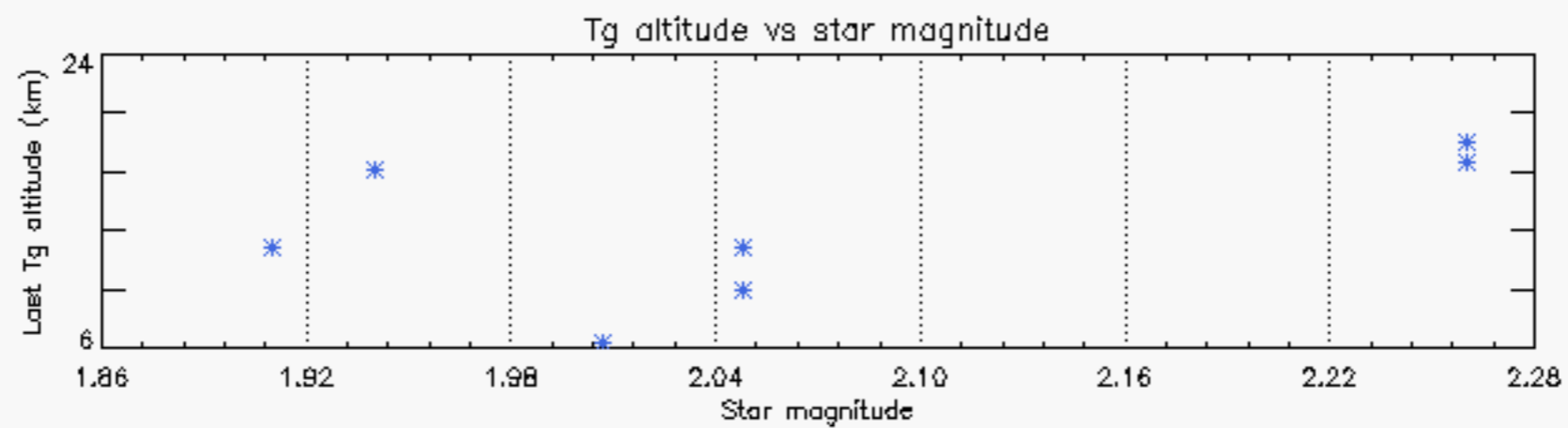
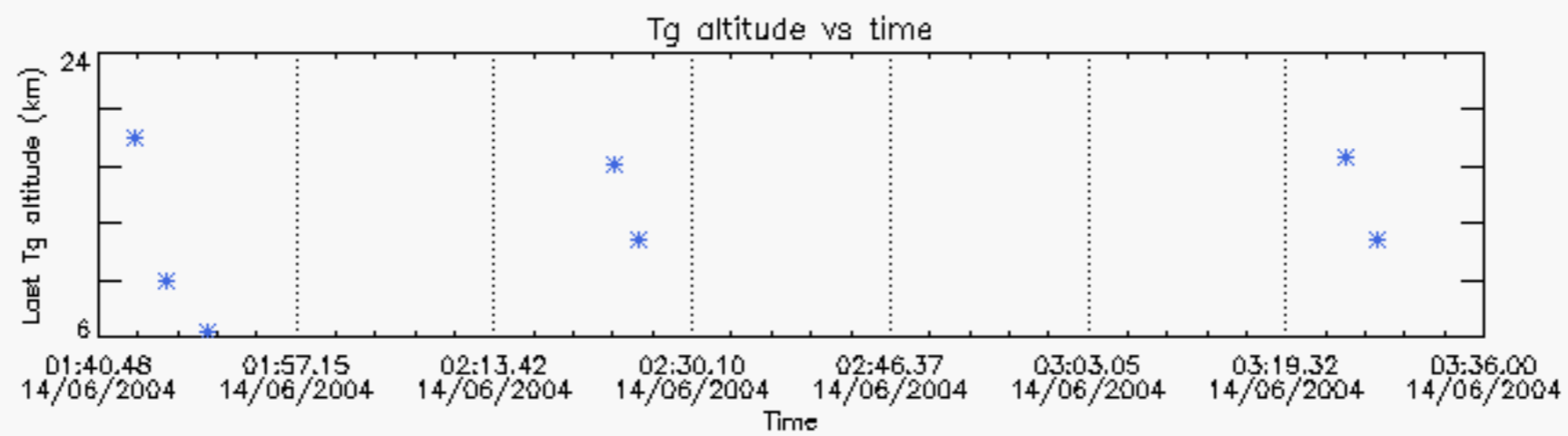
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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1;	-4410.1;	01-JUN-2004	06:09:33;	Bright;	47.0;	86;	35Eta Oph	; 2.43;	10200;occ;	94;	71;	11783
2;	-4334.4;	01-JUN-2004	06:10:49;	Bright;	42.5;	98;	13Zet Oph	; 2.57;	30000;occ;	85;	0;	11783
3;	-4203.2;	01-JUN-2004	06:13:00;	Bright;	40.0;	120;	1Del Oph	; 2.73;	3200;occ;	80;	0;	11783
4;	-4022.5;	01-JUN-2004	06:16:01;	Bright;	37.5;	102;	24Alp Ser	; 2.60;	4250;occ;	75;	0;	11783
5;	-3779.7;	01-JUN-2004	06:20:04;	Bright;	38.0;	3;	16Alp Boo	; -0.05;	4250;occ;	76;	0;	11783
6;	-3664.8;	01-JUN-2004	06:21:59;	Bright;	35.5;	83;		; 2.38;	11000;occ;	71;	0;	11783
7;	-3473.2;	01-JUN-2004	06:25:10;	Bright;	37.5;	180;	27Gam Boo	; 3.04;	8000;occ;	75;	0;	11783
8;	-3268.2;	01-JUN-2004	06:28:35;	Bright;	38.0;	39;	85Eta UMa	; 1.85;	24000;occ;	76;	0;	11783
9;	-3159.4;	01-JUN-2004	06:30:24;	Bright;	37.0;	55;	79Zet UMa	; 2.06;	10200;occ;	74;	0;	11783
10;	-3034.8;	01-JUN-2004	06:32:29;	Bright;	40.0;	119;	14Eta Dra	; 2.73;	4700;occ;	80;	0;	11783
11;	-2871.4;	01-JUN-2004	06:35:12;	Bright;	38.5;	60;	7Bet UMi	; 2.08;	3950;occ;	77;	0;	11783
12;	-2590.9;	01-JUN-2004	06:39:53;	Bright;	37.5;	49;	1Alp UMi	; 1.99;	6300;occ;	75;	0;	11783
13;	-2413.5;	01-JUN-2004	06:42:50;	Bright;	47.5;	89;	5Alp Cep	; 2.45;	8000;occ;	95;	0;	11783
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15;	-1385.8;	01-JUN-2004	06:59:58;	Dark	; 91.0;	93;	53Bet Peg	; 2.52;	3100;occ;	182;	0;	11783
16;	-1180.9;	01-JUN-2004	07:03:23;	Dark	; 56.5;	140;	88Gam Peg	; 2.83;	26000;occ;	113;	0;	11783
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18;	-639.9;	01-JUN-2004	07:12:24;	Dark	; 50.0;	52;	16Bet Cet	; 2.04;	4500;occ;	100;	0;	11783
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21;	-111.7;	01-JUN-2004	07:21:12;	Dark	; 45.5;	9;	Alp Eri	; 0.45;	24000;occ;	91;	0;	11783
22;	83.3;	01-JUN-2004	07:24:27;	Dark	; 62.0;	63;	Bet Gru	; 2.15;	2800;occ;	124;	0;	11784
23;	196.7;	01-JUN-2004	07:26:20;	Dark	; 48.5;	31;	Alp Gru	; 1.73;	15200;occ;	97;	0;	11784
24;	492.8;	01-JUN-2004	07:31:16;	Dark	; 44.0;	45;	Alp Pav	; 1.94;	26000;occ;	88;	0;	11784
25;	707.4;	01-JUN-2004	07:34:51;	Dark	; 51.5;	43;	Alp TrA	; 1.91;	4250;occ;	103;	0;	11784
26;	831.3;	01-JUN-2004	07:36:55;	Dark	; 39.0;	134;	Bet TrA	; 2.81;	6600;occ;	78;	0;	11784
27;	937.5;	01-JUN-2004	07:38:41;	Dark	; 41.5;	147;	Alp Ara	; 2.88;	26000;occ;	83;	0;	11784
28;	1038.8;	01-JUN-2004	07:40:22;	Dark	; 46.5;	40;	The Sco	; 1.86;	7100;occ;	93;	0;	11784
29;	1146.6;	01-JUN-2004	07:42:10;	Dark	; 50.5;	25;	35Lam Sco	; 1.62;	28000;occ;	101;	0;	11784
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31;	1373.5;	01-JUN-2004	07:45:57;	Dark	; 42.0;	136;	23Tau Sco	; 2.82;	30000;occ;	84;	0;	11784
32;	1498.2;	01-JUN-2004	07:48:02;	Bright;	41.5;	80;	7Del Sco	; 2.32;	30000;occ;	83;	0;	11784
33;	1590.3;	01-JUN-2004	07:49:34;	Bright;	47.5;	86;	35Eta Oph	; 2.43;	10200;occ;	95;	0;	11784
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4;	-3664.5;	01-JUN-2004	08:02:35;	Bright;	38.0;	83;		; 2.38;	11000;occ;	76;	0;	11784
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6;	-3267.8;	01-JUN-2004	08:09:12;	Bright;	37.0;	39;	85Eta UMa	; 1.85;	24000;occ;	74;	0;	11784
7;	-3159.2;	01-JUN-2004	08:11:00;	Bright;	36.5;	55;	79Zet UMa	; 2.06;	10200;occ;	73;	0;	11784
8;	-3035.3;	01-JUN-2004	08:13:04;	Bright;	39.5;	119;	14Eta Dra	; 2.73;	4700;occ;	79;	0;	11784
9;	-2871.6;	01-JUN-2004	08:15:48;	Bright;	34.5;	60;	7Bet UMi	; 2.08;	3950;occ;	69;	0;	11784
10;	-2590.9;	01-JUN-2004	08:20:29;	Bright;	36.5;	49;	1Alp UMi	; 1.99;	6300;occ;	73;	0;	11784
11;	-2413.8;	01-JUN-2004	08:23:26;	Bright;	48.5;	89;	5Alp Cep	; 2.45;	8000;occ;	97;	0;	11784
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13;	-1385.0;	01-JUN-2004	08:40:34;	Dark	; 94.0;	93;	53Bet Peg	; 2.52;	3100;occ;	188;	0;	11784
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21;	197.4;	01-JUN-2004	09:06:57;	Dark	; 48.0;	31;	Alp Gru	; 1.73;	15200;occ;	96;	0;	11785
22;	493.5;	01-JUN-2004	09:11:53;	Dark	; 42.5;	45;	Alp Pav	; 1.94;	26000;occ;	85;	0;	11785
23;	707.7;	01-JUN-2004	09:15:27;	Dark	; 48.0;	43;	Alp TrA	; 1.91;	4250;occ;	96;	0;	11785
24;	831.2;	01-JUN-2004	09:17:31;	Dark	; 40.0;	134;	Bet TrA	; 2.81;	6600;occ;	80;	0;	11785
25;	938.0;	01-JUN-2004	09:19:17;	Dark	; 42.5;	147;	Alp Ara	; 2.88;	26000;occ;	85;	0;	11785
26;	1039.2;	01-JUN-2004	09:20:59;	Dark	; 46.5;	40;	The Sco	; 1.86;	7100;occ;	93;	0;	11785
27;	1146.7;	01-JUN-2004	09:22:46;	Dark	; 47.5;	25;	35Lam Sco	; 1.62;	28000;occ;	95;	0;	11785
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29;	1373.6;	01-JUN-2004	09:26:33;	Dark	; 42.0;	136;	23Tau Sco	; 2.82;	30000;occ;	84;	0;	11785
30;	1498.2;	01-JUN-2004	09:28:38;	Bright;	38.5;	80;	7Del Sco	; 2.32;	30000;occ;	77;	0;	11785
31;	1590.3;	01-JUN-2004	09:30:10;	Bright;	46.5;	86;	35Eta Oph	; 2.43;	10200;occ;	93;	0;	11785
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 8; -3159.9; 01-JUN-2004 09:51:35; Bright; 37.5; 55; 79Zet UMa ; 2.06; 10200;occ; 75; 0;11785  
 9; -3035.6; 01-JUN-2004 09:53:40; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;11785  
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 11; -2591.2; 01-JUN-2004 10:01:04; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;11785  
 12; -2414.1; 01-JUN-2004 10:04:01; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;11785  
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 16; -1479.3; 01-JUN-2004 10:19:36; Dark ; 57.5; 58; 21Alp And ; 2.07; 11000;occ; 115; 0;11785  
 17; -1384.9; 01-JUN-2004 10:21:10; Dark ; 92.0; 93; 53Bet Peg ; 2.52; 3100;occ; 184; 0;11785  
 18; -1179.9; 01-JUN-2004 10:24:35; Dark ; 54.5; 140; 88Gam Peg ; 2.83; 26000;occ; 109; 0;11785  
 19; -972.5; 01-JUN-2004 10:28:03; Dark ; 90.5; 90; 54Alp Peg ; 2.49; 11000;occ; 181; 0;11785  
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 21; -470.9; 01-JUN-2004 10:36:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11785  
 22; -237.6; 01-JUN-2004 10:40:18; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;11785  
 23; -111.6; 01-JUN-2004 10:42:24; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;11785  
 24; 84.9; 01-JUN-2004 10:45:40; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;11786  
 25; 198.2; 01-JUN-2004 10:47:34; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;11786  
 26; 493.7; 01-JUN-2004 10:52:29; Dark ; 45.5; 45; Alp Pav ; 1.94; 26000;occ; 91; 0;11786  
 27; 707.4; 01-JUN-2004 10:56:03; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;11786  
 28; 830.9; 01-JUN-2004 10:58:06; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;11786  
 29; 938.1; 01-JUN-2004 10:59:53; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;11786  
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 31; 1146.9; 01-JUN-2004 11:03:22; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;11786  
 32; 1252.1; 01-JUN-2004 11:05:07; Dark ; 50.0; 75; 26Eps Sco ; 2.29; 4250;occ; 100; 0;11786  
 33; 1373.3; 01-JUN-2004 11:07:09; Dark ; 44.0; 136; 23Tau Sco ; 2.82; 30000;occ; 88; 0;11786  
 34; 1497.9; 01-JUN-2004 11:09:13; Bright; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;11786  
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 22; -470.6; 01-JUN-2004 12:17:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11786  
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 26; 198.9; 01-JUN-2004 12:28:10; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;11787  
 27; 494.1; 01-JUN-2004 12:33:05; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;11787  
 28; 707.7; 01-JUN-2004 12:36:39; Dark ; 42.5; 43; Alp TrA ; 1.91; 4250;occ; 85; 0;11787  
 29; 831.2; 01-JUN-2004 12:38:42; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;11787  
 30; 938.2; 01-JUN-2004 12:40:29; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;11787  
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33; 1252.1; 01-JUN-2004 12:45:43; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;11787
34; 1373.0; 01-JUN-2004 12:47:44; Dark ; 46.0; 136; 23Tau Sco ; 2.82; 30000;occ; 92; 0;11787
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12;	-3078.8;	17-JUN-2004	01:27:04;	Bright;	38.5;	119;	14Eta	Dra	;	2.73;	4700;	occ;	77;	0;	12009	
13;	-2867.1;	17-JUN-2004	01:30:36;	Bright;	35.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	70;	0;	12009	
14;	-2591.6;	17-JUN-2004	01:35:12;	Bright;	37.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	74;	0;	12009	
15;	-2166.6;	17-JUN-2004	01:42:17;	Bright;	65.0;	74;	11Bet	Cas	;	2.27;	6600;	occ;	130;	0;	12009	
16;	-2081.8;	17-JUN-2004	01:43:41;	Bright;	43.0;	68;	18Alp	Cas	;	2.22;	4500;	occ;	86;	0;	12009	
17;	-1974.8;	17-JUN-2004	01:45:28;	Bright;	53.0;	160;	23Gam	Per	;	2.93;	4700;	occ;	106;	0;	12009	
18;	-1767.3;	17-JUN-2004	01:48:56;	Bright;	42.5;	73;	57Gam1	And	;	2.26;	13100;	occ;	85;	0;	12009	
19;	-1627.5;	17-JUN-2004	01:51:16;	Dark	;	63.0;	53;	43Bet	And	;	2.05;	3300;	occ;	126;	0;	12009
20;	-1412.0;	17-JUN-2004	01:54:51;	Dark	;	52.5;	50;	13Alp	Ari	;	2.01;	4250;	occ;	105;	0;	12009
21;	-1126.7;	17-JUN-2004	01:59:37;	Dark	;	43.5;	94;	92Alp	Cet	;	2.53;	3100;	occ;	87;	0;	12009
22;	-1003.3;	17-JUN-2004	02:01:40;	Dark	;	82.5;	140;	88Gam	Peg	;	2.83;	26000;	occ;	165;	0;	12009
23;	-454.1;	17-JUN-2004	02:10:49;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	12009
24;	-49.4;	17-JUN-2004	02:17:34;	Dark	;	53.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	106;	0;	12009
25;	227.0;	17-JUN-2004	02:22:10;	Dark	;	78.0;	18;	24Alp	PsA	;	1.17;	9700;	occ;	156;	0;	12010
26;	416.4;	17-JUN-2004	02:25:20;	Dark	;	49.5;	31;	Alp	Gru	;	1.73;	15200;	occ;	99;	0;	12010
27;	636.8;	17-JUN-2004	02:29:00;	Dark	;	47.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	95;	0;	12010
28;	746.6;	17-JUN-2004	02:30:50;	Dark	;	44.5;	43;	Alp	TrA	;	1.91;	4250;	occ;	89;	0;	12010
29;	931.5;	17-JUN-2004	02:33:55;	Dark	;	47.5;	141;	Bet	Ara	;	2.84;	4600;	occ;	95;	0;	12010
30;	1014.7;	17-JUN-2004	02:35:18;	Dark	;	40.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	81;	0;	12010
31;	1119.5;	17-JUN-2004	02:37:03;	Dark	;	45.0;	40;	The	Sco	;	1.86;	7100;	occ;	90;	0;	12010
32;	1211.7;	17-JUN-2004	02:38:35;	Dark	;	51.0;	38;	20Eps	Sgr	;	1.84;	11000;	occ;	102;	0;	12010
33;	1307.3;	17-JUN-2004	02:40:10;	Dark	;	41.5;	75;	26Eps	Sco	;	2.29;	4250;	occ;	83;	0;	12010
34;	1435.1;	17-JUN-2004	02:42:18;	Bright;	55.5;	155;	41Pi	Sgr	;	2.90;	6600;	occ;	111;	0;	12010	
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1;	-4421.5;	17-JUN-2004	02:45:18;	Bright;	40.0;	86;	35Eta	Oph	;	2.43;	10200;	occ;	80;	0;	12010	
2;	-4318.5;	17-JUN-2004	02:47:01;	Bright;	40.0;	98;	13Zet	Oph	;	2.57;	30000;	occ;	80;	0;	12010	
3;	-4192.3;	17-JUN-2004	02:49:07;	Bright;	38.5;	120;	1Del	Oph	;	2.73;	3200;	occ;	77;	0;	12010	
4;	-4008.8;	17-JUN-2004	02:52:10;	Bright;	38.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	76;	0;	12010	
5;	-3885.8;	17-JUN-2004	02:54:13;	Bright;	42.5;	59;	55Alp	Oph	;	2.08;	8900;	occ;	85;	0;	12010	
6;	-3762.7;	17-JUN-2004	02:56:16;	Bright;	38.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	76;	0;	12010	
7;	-3667.4;	17-JUN-2004	02:57:52;	Bright;	39.0;	67;	5Alp	CrB	;	2.22;	11000;	occ;	78;	0;	12010	
8;	-3582.8;	17-JUN-2004	02:59:16;	Bright;	40.5;	133;	40Zet	Her	;	2.81;	6000;	occ;	81;	0;	12010	
9;	-3425.6;	17-JUN-2004	03:01:54;	Bright;	36.0;	180;	27Gam	Boo	;	3.04;	8000;	occ;	72;	0;	12010	
10;	-3198.3;	17-JUN-2004	03:05:41;	Bright;	40.5;	39;	85Eta	UMa	;	1.85;	24000;	occ;	81;	0;	12010	
11;	-3078.8;	17-JUN-2004	03:07:40;	Bright;	34.5;	119;	14Eta	Dra	;	2.73;	4700;	occ;	69;	0;	12010	
12;	-2867.1;	17-JUN-2004	03:11:12;	Bright;	34.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	69;	0;	12010	
13;	-2591.6;	17-JUN-2004	03:15:48;	Bright;	37.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	75;	0;	12010	
14;	-2167.2;	17-JUN-2004	03:22:52;	Bright;	46.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	93;	0;	12010	
15;	-2082.0;	17-JUN-2004	03:24:17;	Bright;	46.0;	68;	18Alp	Cas	;	2.22;	4500;	occ;	92;	0;	12010	
16;	-1974.9;	17-JUN-2004	03:26:04;	Bright;	37.0;	160;	23Gam	Per	;	2.93;	4700;	occ;	74;	0;	12010	
17;	-1767.3;	17-JUN-2004	03:29:32;	Bright;	39.5;	73;	57Gam1	And	;	2.26;	13100;	occ;	79;	0;	12010	
18;	-1625.7;	17-JUN-2004	03:31:53;	Dark	;	57.0;	53;	43Bet	And	;	2.05;	3300;	occ;	114;	0;	12010
19;	-1412.0;	17-JUN-2004	03:35:27;	Dark	;	54.0;	50;	13Alp	Ari	;	2.01;	4250;	occ;	108;	0;	12010
20;	-1128.2;	17-JUN-2004	03:40:11;	Dark	;	50.0;	94;	92Alp	Cet	;	2.53;	3100;	occ;	100;	0;	12010
21;	-1002.3;	17-JUN-2004	03:42:17;	Dark	;	79.5;	140;	88Gam	Peg	;	2.83;	26000;	occ;	159;	0;	12010
22;	-553.8;	17-JUN-2004	03:49:45;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	12010
23;	-452.6;	17-JUN-2004	03:51:27;	Dark	;	61.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	123;	0;	12010
24;	-48.4;	17-JUN-2004	03:58:11;	Dark	;	51.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	102;	0;	12010
25;	229.3;	17-JUN-2004	04:02:48;	Dark	;	73.5;	18;	24Alp	PsA	;	1.17;	9700;	occ;	147;	0;	12011
26;	417.2;	17-JUN-2004	04:05:56;	Dark	;	50.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	100;	0;	12011
27;	638.6;	17-JUN-2004	04:09:38;	Dark	;	44.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	89;	0;	12011
28;	746.9;	17-JUN-2004	04:11:26;	Dark	;	43.0;	43;	Alp	TrA	;	1.91;	4250;	occ;	86;	0;	12011
29;	933.0;	17-JUN-2004	04:14:32;	Dark	;	42.5;	141;	Bet	Ara	;	2.84;	4600;	occ;	85;	0;	12011
30;	1015.9;	17-JUN-2004	04:15:55;	Dark	;	39.0;	147;	Alp	Ara	;	2.88;	26000;	occ;	78;	0;	12011
31;	1121.1;	17-JUN-2004	04:17:40;	Dark	;	45.5;	40;	The	Sco	;	1.86;	7100;	occ;	91;	0;	12011
32;	1212.2;	17-JUN-2004	04:19:11;	Dark	;	46.5;	38;	20Eps	Sgr	;	1.84;	11000;	occ;	93;	0;	12011
33;	1308.9;	17-JUN-2004	04:20:48;	Dark	;	45.5;	75;	26Eps	Sco	;	2.29;	4250;	occ;	91;	0;	12011
34;	1435.7;	17-JUN-2004	04:22:55;	Bright;	54.5;	155;	41Pi	Sgr	;	2.90;	6600;	occ;	109;	0;	12011	

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1;	-4421.1;	17-JUN-2004	04:25:54;	Bright;	40.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	81;	0;	12011	
2;	-4317.0;	17-JUN-2004	04:27:38;	Bright;	38.0;	98;	13Zet	Oph	;	2.57;	30000;	occ;	76;	0;	12011	
3;	-4190.9;	17-JUN-2004	04:29:44;	Bright;	37.0;	120;	1Del	Oph	;	2.73;	3200;	occ;	74;	0;	12011	
4;	-4007.2;	17-JUN-2004	04:32:48;	Bright;	35.5;	102;	24Alp	Ser	;	2.60;	4250;	occ;	71;	0;	12011	
5;	-3886.0;	17-JUN-2004	04:34:49;	Bright;	44.0;	59;	55Alp	Oph	;	2.08;	8900;	occ;	88;	0;	12011	
6;	-3761.9;	17-JUN-2004	04:36:53;	Bright;	38.5;	127;	27Bet	Her	;	2.78;	4700;	occ;	77;	0;	12011	
7;	-3665.9;	17-JUN-2004	04:38:29;	Bright;	37.0;	67;	5Alp	CrB	;	2.22;	11000;	occ;	74;	0;	12011	
8;	-3582.0;	17-JUN-2004	04:39:53;	Bright;	37.5;	133;	40Zet	Her	;	2.81;	6000;	occ;	75;	0;	12011	
9;	-3424.9;	17-JUN-2004	04:42:30;	Bright;	37.5;	180;	27Gam	Boo	;	3.04;	8000;	occ;	75;	0;	12011	
10;	-3197.0;	17-JUN-2004	04:46:18;	Bright;	39.5;	39;	85Eta	UMa	;	1.85;	24000;	occ;	79;	0;	12011	
11;	-3078.3;	17-JUN-2004	04:48:17;	Bright;	38.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	76;	0;	12011	
12;	-2866.2;	17-JUN-2004	04:51:49;	Bright;	35.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	71;	0;	12011	
13;	-2590.8;	17-JUN-2004	04:56:24;	Bright;	36.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	72;	0;	12011	
14;	-2168.1;	17-JUN-2004	05:03:27;	Bright;	46.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	93;	0;	12011	
15;	-2082.5;	17-JUN-2004	05:04:53;	Bright;	46.0;	68;	18Alp	Cas	;	2.22;	4500;	occ;	92;	0;	12011	
16;	-1974.1;	17-JUN-2004	05:06:41;	Bright;	37.0;	160;	23Gam	Per	;	2.93;	4700;	occ;	74;	0;	12011	
17;	-1766.9;	17-JUN-2004	05:10:08;	Bright;	41.0;	73;	57Gam1	And	;	2.26;	13100;	occ;	82;	0;	12011	
18;	-1625.6;	17-JUN-2004	05:12:30;	Dark	;	59.0;	53;	43Bet	And	;	2.05;	3300;	occ;	118;	0;	12011
19;	-1411.1;	17-JUN-2004	05:16:04;	Dark	;	51.0;	50;	13Alp	Ari	;	2.01;	4250;	occ;	102;	0;	12011
20;	-1124.9;	17-JUN-2004	05:20:50;	Dark	;	44.5;	94;	92Alp	Cet	;	2.53;	3100;	occ;	89;	0;	12011
21;	-1001.5;	17-JUN-2004	05:22:54;	Dark	;	84.0;	140;	88Gam	Peg	;	2.83;	26000;	occ;	168;	0;	12011
22;	-552.6;	17-JUN-2004	05:30:23;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	12011
23;	-448.6;	17-JUN-2004	05:32:07;	Dark	;	61.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	122;	0;	12011
24;	-47.8;	17-JUN-2004	05:38:47;	Dark	;	52.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	104;	0;	12011
25;	231.4;	17-JUN-2004	05:43:27;	Dark	;	76.5;	18;	24Alp	PsA	;	1.17;	9700;	occ;	153;	0;	12012
26;	418.6;	17-JUN-2004	05:46:34;	Dark	;	52.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	104;	0;	12012
27;	639.4;	17-JUN-2004	05:50:15;	Dark	;	43.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	87;	0;	12012
28;	748.0;	17-JUN-2004	05:52:03;	Dark	;	47.5;	43;	Alp	TrA	;	1.91;	4250;	occ;	95;	0;	12012
29;	933.6;	17-JUN-2004	05:55:09;	Dark	;	39.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	78;	0;	12012
30;	1016.3;	17-JUN-2004	05:56:32;	Dark	;	38.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	77;	0;	12012
31;	1121.7;	17-JUN-2004	05:58:17;	Dark	;	45.0;	40;	The	Sco	;	1.86;	7100;	occ;	90;	0;	12012
32;	1213.0;	17-JUN-2004	05:59:48;	Dark	;	49.5;	38;	20Eps	Sgr	;	1.84;	11000;	occ;	99;	0;	12012
33;	1309.4;	17-JUN-2004	06:01:25;	Dark	;	41.0;	75;	26Eps	Sco	;	2.29;	4250;	occ;	82;	0;	12012
34;	1435.9;	17-JUN-2004	06:03:31;	Bright;	56.0;	155;	41Pi	Sgr	;	2.90;	6600;	occ;	112;	0;	12012	
35;	1615.4;	17-JUN-2004	06:06:31;	Bright;	12.0;	86;	35Eta	Oph	;	2.43;	10200;	occ;	24;	0;	12012	

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1;	897.6;	17-JUN-2004	20:59:56;	Dark	;	38.0;	134;	Bet	TrA	;	2.81;	6600;	occ;	76;	71;	12021
2;	1018.2;	17-JUN-2004	21:01:57;	Dark	;	39.0;	147;	Alp	Ara	;	2.88;	26000;	occ;	78;	0;	12021
3;	1123.7;	17-JUN-2004	21:03:42;	Dark	;	44.5;	40;	The	Sco	;	1.86;	7100;	occ;	89;	0;	12021
4;	1225.5;	17-JUN-2004	21:05:24;	Dark	;	44.5;	25;	35Lam	Sco	;	1.62;	28000;	occ;	89;	0;	12021
5;	1310.3;	17-JUN-2004	21:06:49;	Dark	;	43.5;	75;	26Eps	Sco	;	2.29;	4250;	occ;	87;	0;	12021
6;	1438.1;	17-JUN-2004	21:08:57;	Bright;	54.5;	155;	41Pi	Sgr	;	2.90;	6600;	occ;	109;	0;	12021	
7;	1616.2;	17-JUN-2004	21:11:55;	Bright;	40.0;	86;	35Eta	Oph	;	2.43;	10200;	occ;	80;	0;	12021	
8;	1720.1;	17-JUN-2004	21:13:39;	Bright;	38.0;	98;	13Zet	Oph	;	2.57;	30000;	occ;	76;	0;	12021	
9;	1844.9;	17-JUN-2004	21:15:43;	Bright;	39.0;	120;	1Del	Oph	;	2.73;	3200;	occ;	78;	0;	12021	
10;	1998.1;	17-JUN-2004	21:18:17;	Bright;	43.0;	126;	60Bet	Oph	;	2.77;	4250;	occ;	86;	0;	12021	
11;	2146.5;	17-JUN-2004	21:20:45;	Bright;	43.0;	59;	55Alp	Oph	;	2.08;	8900;	occ;	86;	0;	12021	
12;	2272.7;	17-JUN-2004	21:22:51;	Bright;	38.5;	127;	27Bet	Her	;	2.78;	4700;	occ;	77;	0;	12021	
13;	2370.2;	17-JUN-2004	21:24:29;	Bright;	37.0;	67;	5Alp	CrB	;	2.22;	11000;	occ;	74;	0;	12021	
14;	2452.2;	17-JUN-2004	21:25:51;	Bright;	40.5;	133;	40Zet	Her	;	2.81;	6000;	occ;	81;	0;	12021	
15;	2614.3;	17-JUN-2004	21:28:33;	Bright;	36.5;	180;	27Gam	Boo	;	3.04;	8000;	occ;	73;	0;	12021	
16;	2770.0;	17-JUN-2004	21:31:09;	Bright;	56.5;	5;	3Alp	Lyr	;	0.03;	11000;	occ;	113;	0;	12021	
17;	2879.3;	17-JUN-2004	21:32:58;	Bright;	43.5;	69;	33Gam	Dra	;	2.23;	3800;	occ;	87;	0;	12021	
18;	3170.0;	17-JUN-2004	21:37:49;	Bright;	38.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	76;	0;	12021	
19;	3444.6;	17-JUN-2004	21:42:23;	Bright;	37.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	74;	0;	12021	
20;	3864.3;	17-JUN-2004	21:49:23;	Bright;	45.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	91;	0;	12021	
21;	3950.6;	17-JUN-2004	21:50:49;	Bright;	45.5;	68;	18Alp	Cas	;	2.22;	4500;	occ;	91;	0;	12021	
22;	4061.8;	17-JUN-2004	21:52:40;	Bright;	36.5;	160;	23Gam	Per	;	2.93;	4700;	occ;	73;	0;	12021	
23;	4268.5;	17-JUN-2004	21:56:07;	Bright;	43.0;	73;	57Gam1	And	;	2.26;	13100;	occ;	86;	0;	12021	
24;	4411.4;	17-JUN-2004	21:58:30;	Dark	;	59.5;	53;	43Bet	And	;	2.05;	3300;	occ;	119;	0;	12021
25;	4626.4;	17-JUN-2004	22:02:05;	Dark	;	50.5;	50;	13Alp	Ari	;	2.01;	4250;	occ;	101;	0;	12021
26;	4913.0;	17-JUN-2004	22:06:52;	Dark	;	40.0;	94;	92Alp	Cet	;	2.53;	3100;	occ;	80;	0;	12021
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