

# GOMOS Daily Report 08-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	09JUN2004 03:44:37
Data source version	GOMOS/4.02
Start time of products	08-JUN-2004 (08JUN2004 00:00:00)
Stop time of products	09-JUN-2004 (09JUN2004 00:00:00)

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

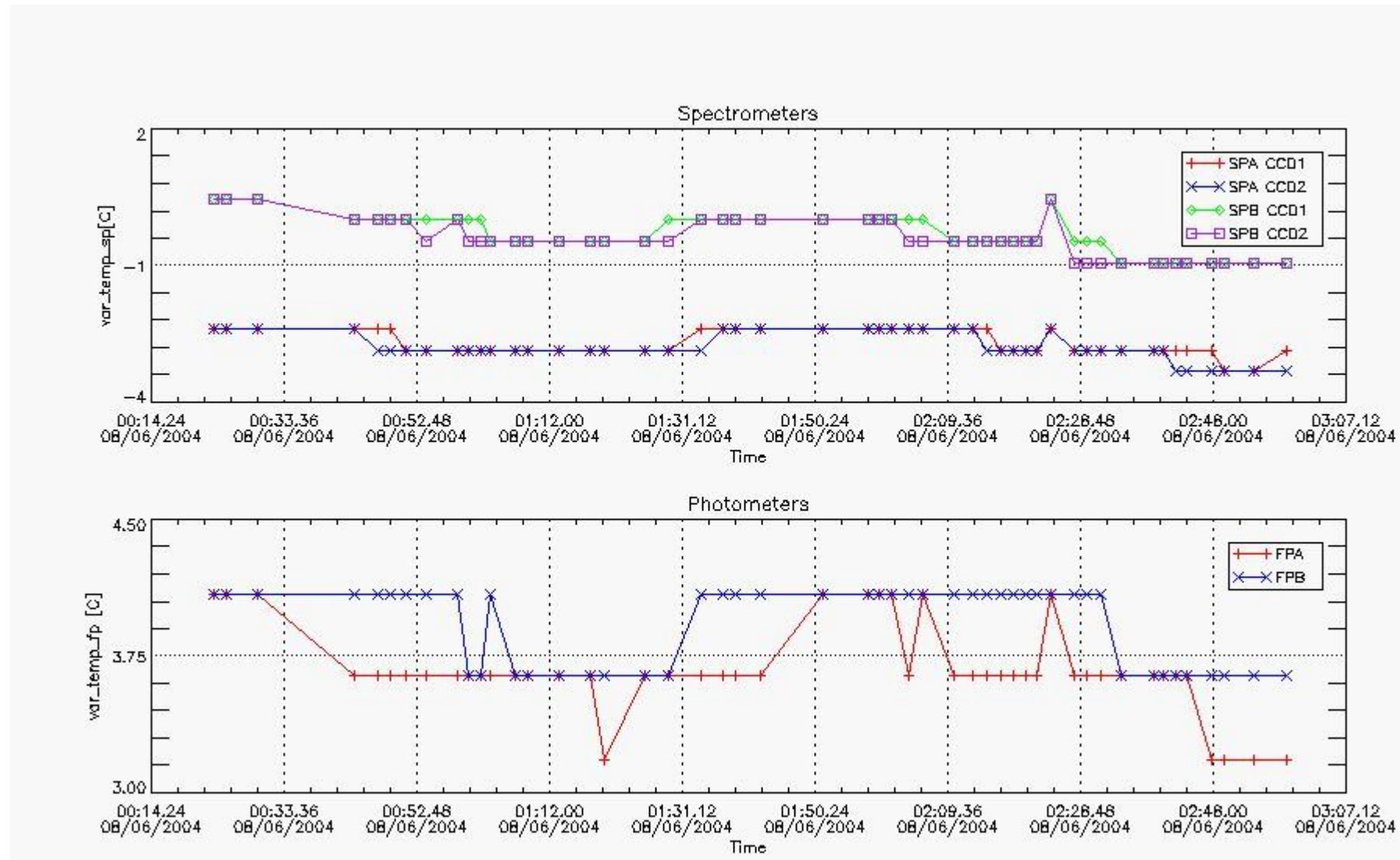
## 2. Summary of products arrived in PCF

### 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_1PNPDE20040608_002320_000000652027_00303_11880_0000.N1	08-JUN-2004 00:23:20	Dark	65.000	63	Bet Gru	2.1500	2800.0	130	11880	No
GOM_TRA_1PNPDE20040608_002521_000000522027_00303_11880_0001.N1	08-JUN-2004 00:25:21	Dark	51.500	31	Alp Gru	1.7340	15200.	103	11880	No
GOM_TRA_1PNPDE20040608_002949_000000432027_00303_11880_0002.N1	08-JUN-2004 00:29:49	Dark	43.000	45	Alp Pav	1.9400	26000.	86	11880	No
GOM_TRA_1PNPDE20040608_004349_000000682027_00303_11880_0000.N1	08-JUN-2004 00:43:49	Bright	67.500	155	41Pi Sgr	2.9000	6600.0	135	11880	No
GOM_TRA_1PNPDE20040608_004712_000000452027_00303_11880_0001.N1	08-JUN-2004 00:47:12	Bright	44.500	86	35Eta Oph	2.4300	10200.	89	11880	No
GOM_TRA_1PNPDE20040608_004858_000000412027_00303_11880_0002.N1	08-JUN-2004 00:48:58	Bright	41.000	98	13Zet Oph	2.5710	30000.	82	11880	No
GOM_TRA_1PNPDE20040608_005107_000000392027_00303_11880_0003.N1	08-JUN-2004 00:51:07	Bright	39.000	120	1Del Oph	2.7340	3200.0	78	11880	No
GOM_TRA_1PNPDE20040608_005406_000000382027_00303_11880_0004.N1	08-JUN-2004 00:54:06	Bright	37.500	102	24Alp Ser	2.6000	4250.0	75	11880	No
GOM_TRA_1PNPDE20040608_005844_000000422027_00303_11880_0005.N1	08-JUN-2004 00:58:44	Bright	41.500	127	27Bet Her	2.7810	4700.0	83	11880	No
GOM_TRA_1PNPDE20040608_010015_000000372027_00303_11880_0006.N1	08-JUN-2004 01:00:15	Bright	36.500	83		2.3780	11000.	73	11880	No
GOM_TRA_1PNPDE20040608_010157_000000412027_00303_11880_0007.N1	08-JUN-2004 01:01:57	Bright	41.000	133	40Zet Her	2.8070	6000.0	82	11880	No
GOM_TRA_1PNPDE20040608_010329_000000372027_00303_11880_0008.N1	08-JUN-2004 01:03:29	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	11880	No
GOM_TRA_1PNPDE20040608_010704_000000522027_00303_11880_0009.N1	08-JUN-2004 01:07:04	Bright	52.000	39	85Eta UMa	1.8540	24000.	104	11880	No
GOM_TRA_1PNPDE20040608_010856_000000402027_00303_11880_0010.N1	08-JUN-2004 01:08:56	Bright	40.000	55	79Zet UMa	2.0600	10200.	80	11880	No
GOM_TRA_1PNPDE20040608_011316_000000382027_00303_11880_0011.N1	08-JUN-2004 01:13:16	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	11880	No
GOM_TRA_1PNPDE20040608_011758_000000382027_00303_11880_0012.N1	08-JUN-2004 01:17:58	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	11880	No
GOM_TRA_1PNPDE20040608_011955_000000492027_00303_11880_0013.N1	08-JUN-2004 01:19:55	Bright	48.500	89	5Alp Cep	2.4510	8000.0	97	11880	No
GOM_TRA_1PNPDE20040608_012547_000000402027_00303_11880_0014.N1	08-JUN-2004 01:25:47	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	11880	No
GOM_TRA_1PNPDE20040608_012909_000002252027_00303_11880_0015.N1	08-JUN-2004 01:29:09	Twilight	225.00	92	53Eps Cyg	2.5000	4500.0	450	11880	No
GOM_TRA_1PNPDE20040608_013354_000000542027_00303_11880_0016.N1	08-JUN-2004 01:33:54	Twilight	54.000	53	43Bet And	2.0480	3300.0	108	11880	No
GOM_TRA_1PNPDE20040608_013709_000000522027_00303_11880_0017.N1	08-JUN-2004 01:37:09	Twilight	51.500	50	13Alp Ari	2.0070	4250.0	103	11880	No
GOM_TRA_1PNPDE20040608_013853_000001322027_00303_11880_0018.N1	08-JUN-2004 01:38:53	Dark	132.00	93	53Bet Peg	2.5200	3100.0	264	11880	No
GOM_TRA_1PNPDE20040608_014227_000000642027_00303_11880_0019.N1	08-JUN-2004 01:42:27	Dark	64.000	140	88Gam Peg	2.8340	26000.	128	11880	No
GOM_TRA_1PNPDE20040608_015137_000000562027_00303_11880_0020.N1	08-JUN-2004 01:51:37	Dark	55.500	52	16Bet Cet	2.0370	4500.0	111	11880	No
GOM_TRA_1PNPDE20040608_015809_000000532027_00303_11880_0021.N1	08-JUN-2004 01:58:09	Dark	53.000	84	Alp Phe	2.3970	4500.0	106	11880	No
GOM_TRA_1PNPDE20040608_015936_000000442027_00303_11880_0022.N1	08-JUN-2004 01:59:36	Dark	43.500	9	Alp Eri	0.45300	24000.	87	11880	No
GOM_TRA_1PNPDE20040608_020130_000000782027_00304_11881_0023.N1	08-JUN-2004 02:01:30	Dark	78.000	18	24Alp PsA	1.1660	9700.0	156	11881	No
GOM_TRA_1PNPDE20040608_020358_000000572027_00304_11881_0024.N1	08-JUN-2004 02:03:58	Dark	57.000	63	Bet Gru	2.1500	2800.0	114	11881	No
GOM_TRA_1PNPDE20040608_020557_000000502027_00304_11881_0025.N1	08-JUN-2004 02:05:57	Dark	50.000	31	Alp Gru	1.7340	15200.	100	11881	No
GOM_TRA_1PNPDE20040608_021026_000000472027_00304_11881_0026.N1	08-JUN-2004 02:10:26	Dark	47.000	45	Alp Pav	1.9400	26000.	94	11881	No
GOM_TRA_1PNPDE20040608_021315_000000452027_00304_11881_0027.N1	08-JUN-2004 02:13:15	Twilight	44.500	43	Alp TrA	1.9100	4250.0	89	11881	No
GOM_TRA_1PNPDE20040608_021515_000000422027_00304_11881_0028.N1	08-JUN-2004 02:15:15	Bright	41.500	134	Bet TrA	2.8100	6600.0	83	11881	No
GOM_TRA_1PNPDE20040608_021720_000000452027_00304_11881_0029.N1	08-JUN-2004 02:17:20	Bright	44.500	147	Alp Ara	2.8770	26000.	89	11881	No
GOM_TRA_1PNPDE20040608_021907_000000482027_00304_11881_0030.N1	08-JUN-2004 02:19:07	Bright	47.500	40	The Sco	1.8590	7100.0	95	11881	No
GOM_TRA_1PNPDE20040608_022051_000000472027_00304_11881_0031.N1	08-JUN-2004 02:20:51	Bright	47.000	25	35Lam Sco	1.6200	28000.	94	11881	No
GOM_TRA_1PNPDE20040608_022226_000000492027_00304_11881_0032.N1	08-JUN-2004 02:22:26	Bright	49.000	75	26Eps Sco	2.2910	4250.0	98	11881	No
GOM_TRA_1PNPDE20040608_022425_000000642027_00304_11881_0000.N1	08-JUN-2004 02:24:25	Bright	64.000	155	41Pi Sgr	2.9000	6600.0	128	11881	Yes
GOM_TRA_1PNPDE20040608_022748_000000452027_00304_11881_0001.N1	08-JUN-2004 02:27:48	Bright	44.500	86	35Eta Oph	2.4300	10200.	89	11881	No
GOM_TRA_1PNPDE20040608_022935_000000412027_00304_11881_0002.N1	08-JUN-2004 02:29:35	Bright	41.000	98	13Zet Oph	2.5710	30000.	82	11881	No
GOM_TRA_1PNPDE20040608_023143_000000402027_00304_11881_0003.N1	08-JUN-2004 02:31:43	Bright	39.500	120	1Del Oph	2.7340	3200.0	79	11881	No
GOM_TRA_1PNPDE20040608_023442_000000382027_00304_11881_0004.N1	08-JUN-2004 02:34:42	Bright	37.500	102	24Alp Ser	2.6000	4250.0	75	11881	No
GOM_TRA_1PNPDE20040608_023919_000000412027_00304_11881_0005.N1	08-JUN-2004 02:39:19	Bright	41.000	127	27Bet Her	2.7810	4700.0	82	11881	No
GOM_TRA_1PNPDE20040608_024051_000000402027_00304_11881_0006.N1	08-JUN-2004 02:40:51	Bright	39.500	83		2.3780	11000.	79	11881	No
GOM_TRA_1PNPDE20040608_024232_000000422027_00304_11881_0007.N1	08-JUN-2004 02:42:32	Bright	41.500	133	40Zet Her	2.8070	6000.0	83	11881	No
GOM_TRA_1PNPDE20040608_024405_000000372027_00304_11881_0008.N1	08-JUN-2004 02:44:05	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	11881	No
GOM_TRA_1PNPDE20040608_024741_000000392027_00304_11881_0009.N1	08-JUN-2004 02:47:41	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	11881	No
GOM_TRA_1PNPDE20040608_024932_000000392027_00304_11881_0010.N1	08-JUN-2004 02:49:32	Bright	39.000	55	79Zet UMa	2.0600	10200.	78	11881	No
GOM_TRA_1PNPDE20040608_025351_000000362027_00304_11881_0011.N1	08-JUN-2004 02:53:51	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	11881	No
GOM_TRA_1PNPDE20040608_025833_000000362027_00304_11881_0012.N1	08-JUN-2004 02:58:33	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	11881	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).

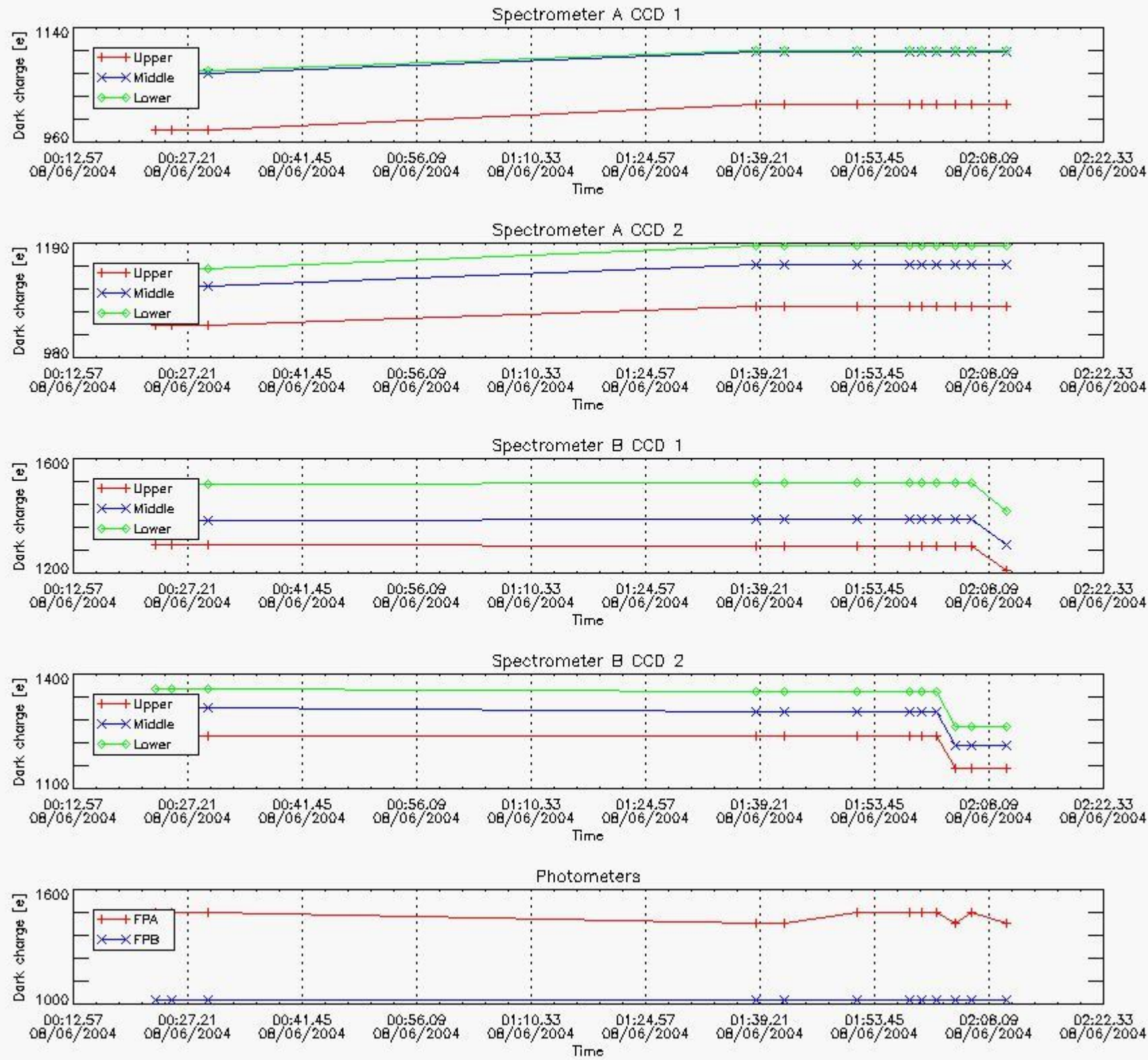
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20040608_002320_000000652027_00303_11880_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20040608_002521_000000522027_00303_11880_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040608_002949_000000432027_00303_11880_0002.N1	DC map used (0)

#### 4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used





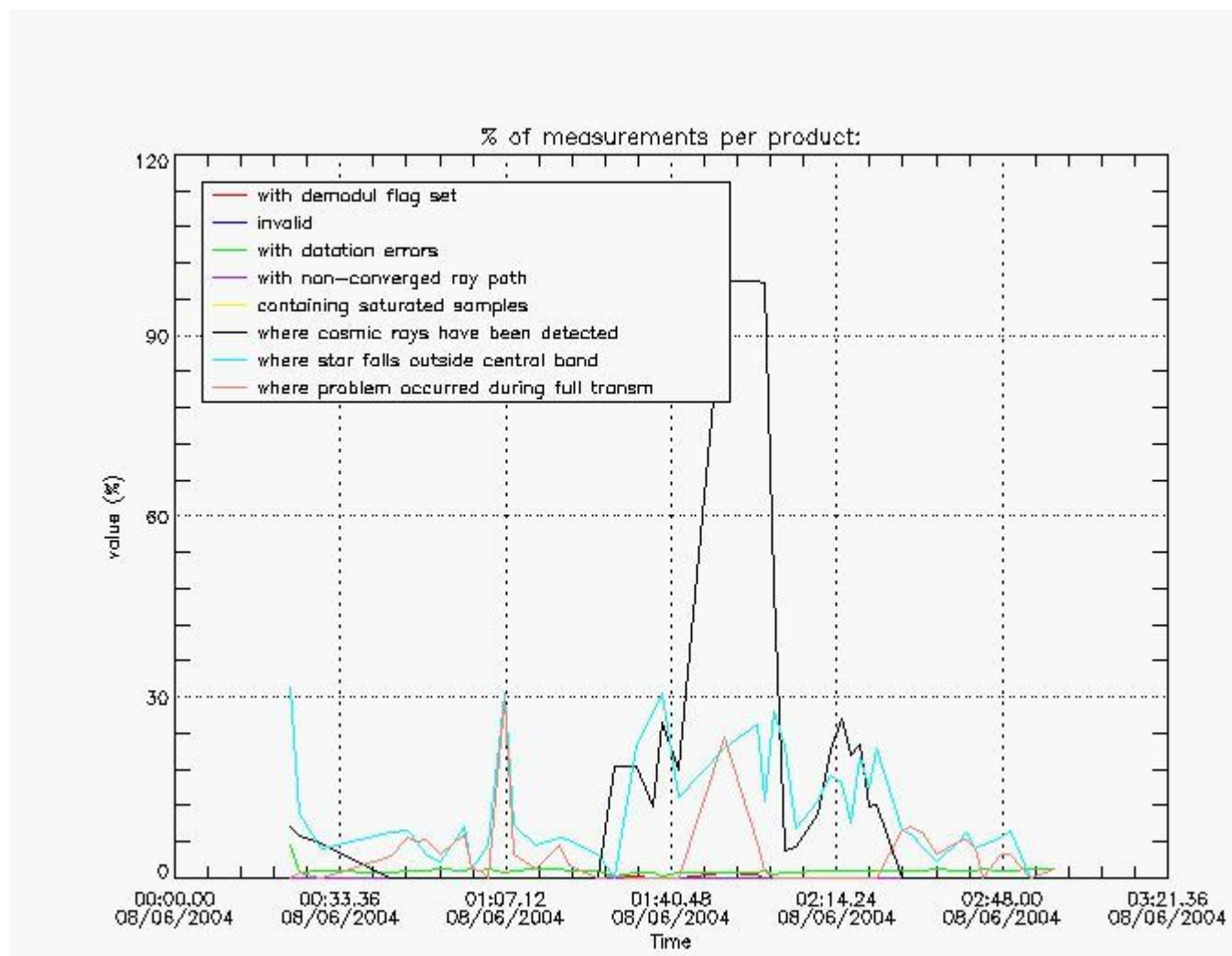
## 5. Demodulation flag and quality information monitoring

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:

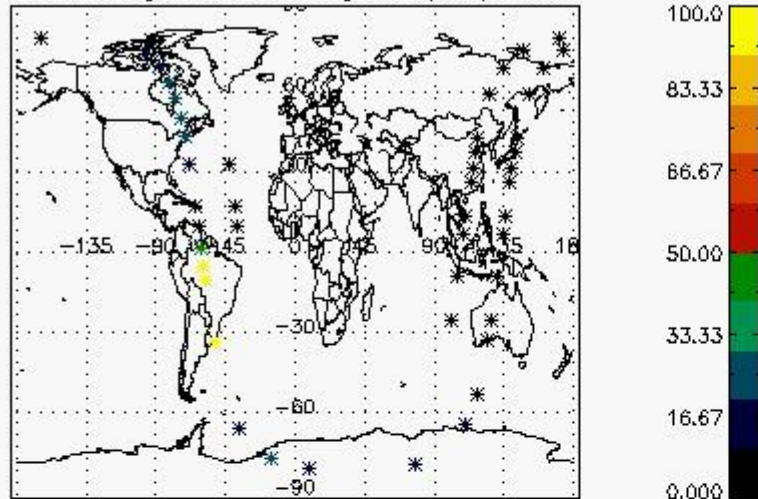
At least one measurement with demodulation flag set:	12.5000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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

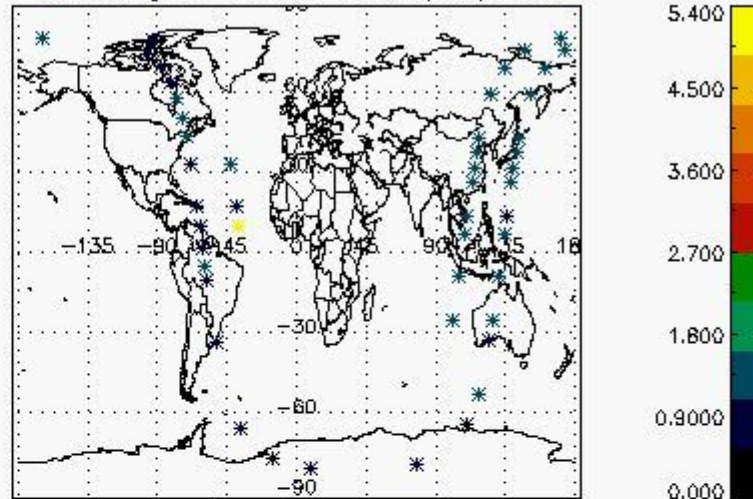


### 5.3 Plot quality information per product (world map)

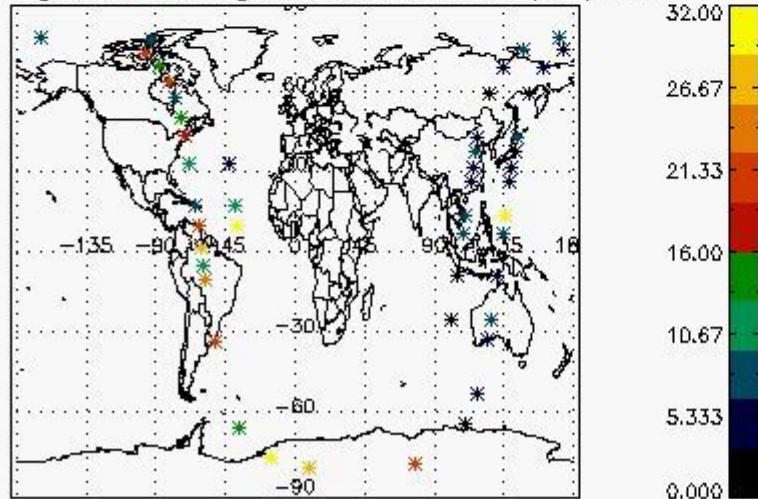
Percentage of cosmic ray hits per profile



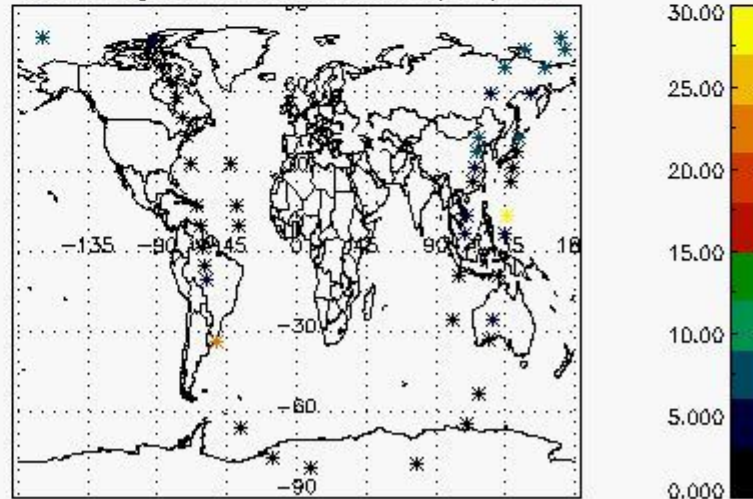
Percentage of datation errors per profile



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)

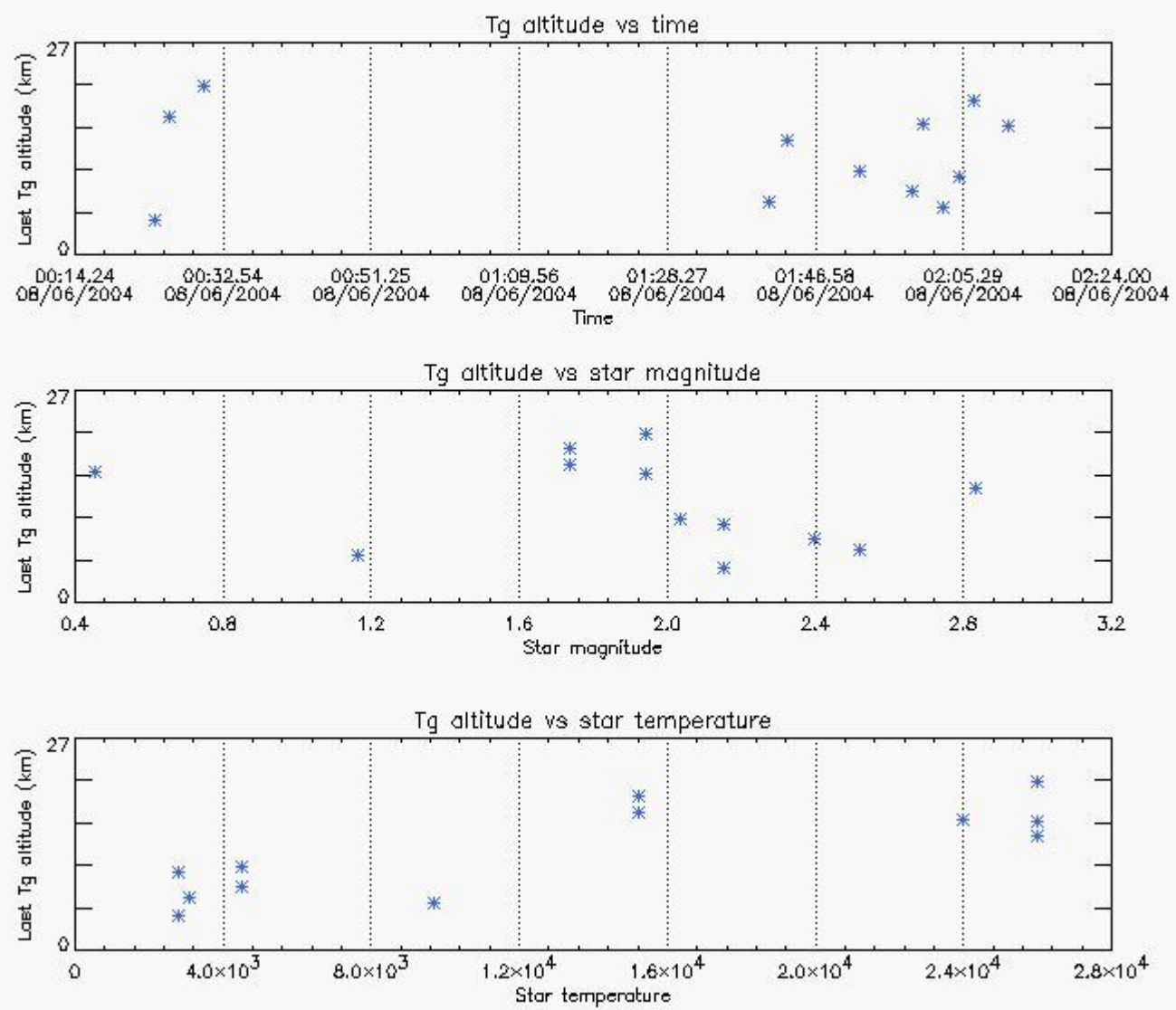
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.658	19.734	29.705
St. deviation:	5.7479	4.3554	38.568
Maximum:	21.565	26.911	87.454
Minimum:	4.4588	5.1989	7.6054
Number of data:	12.000	32.000	4.0000

### 6.2 Plot for DARK limb products

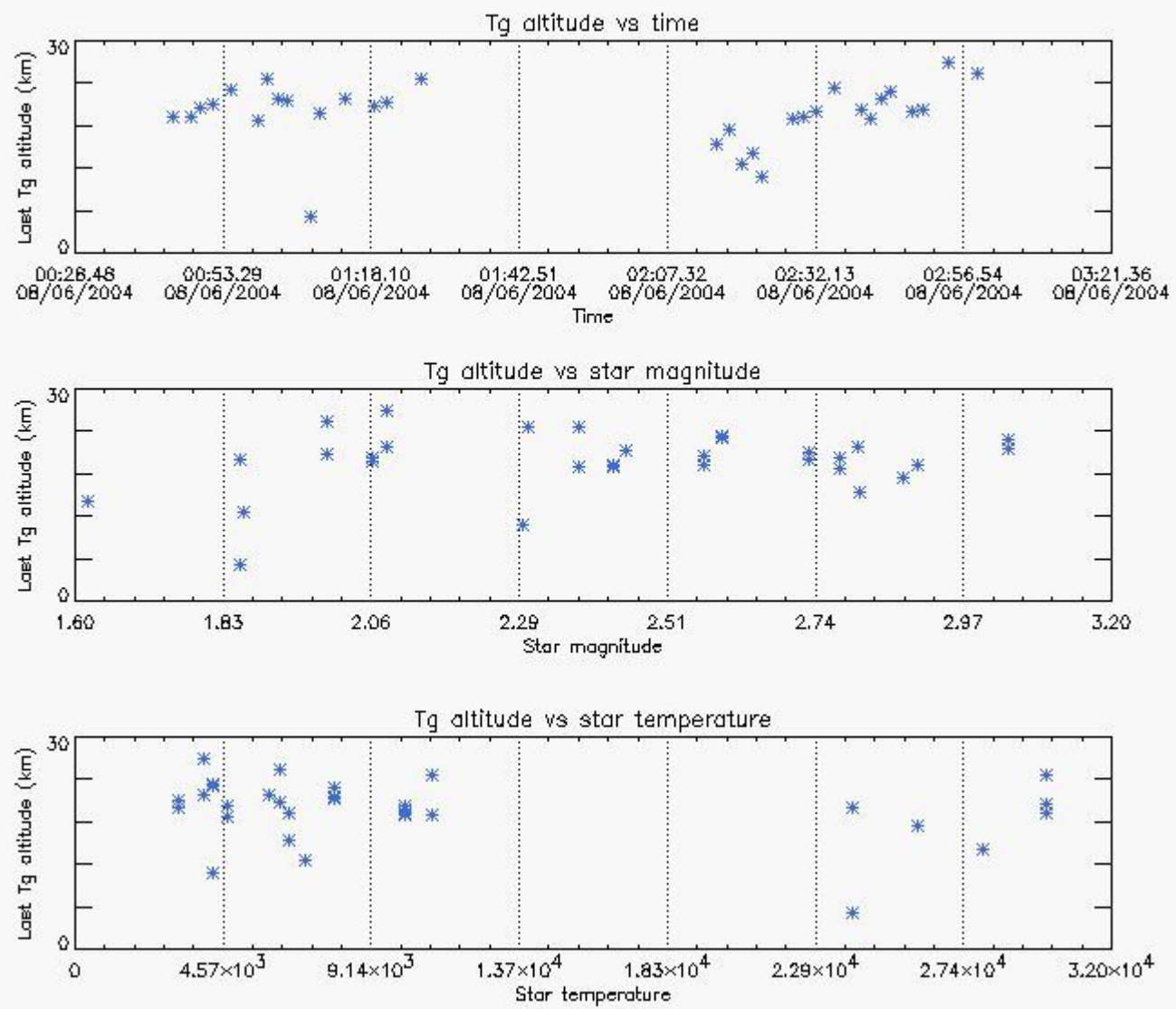


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

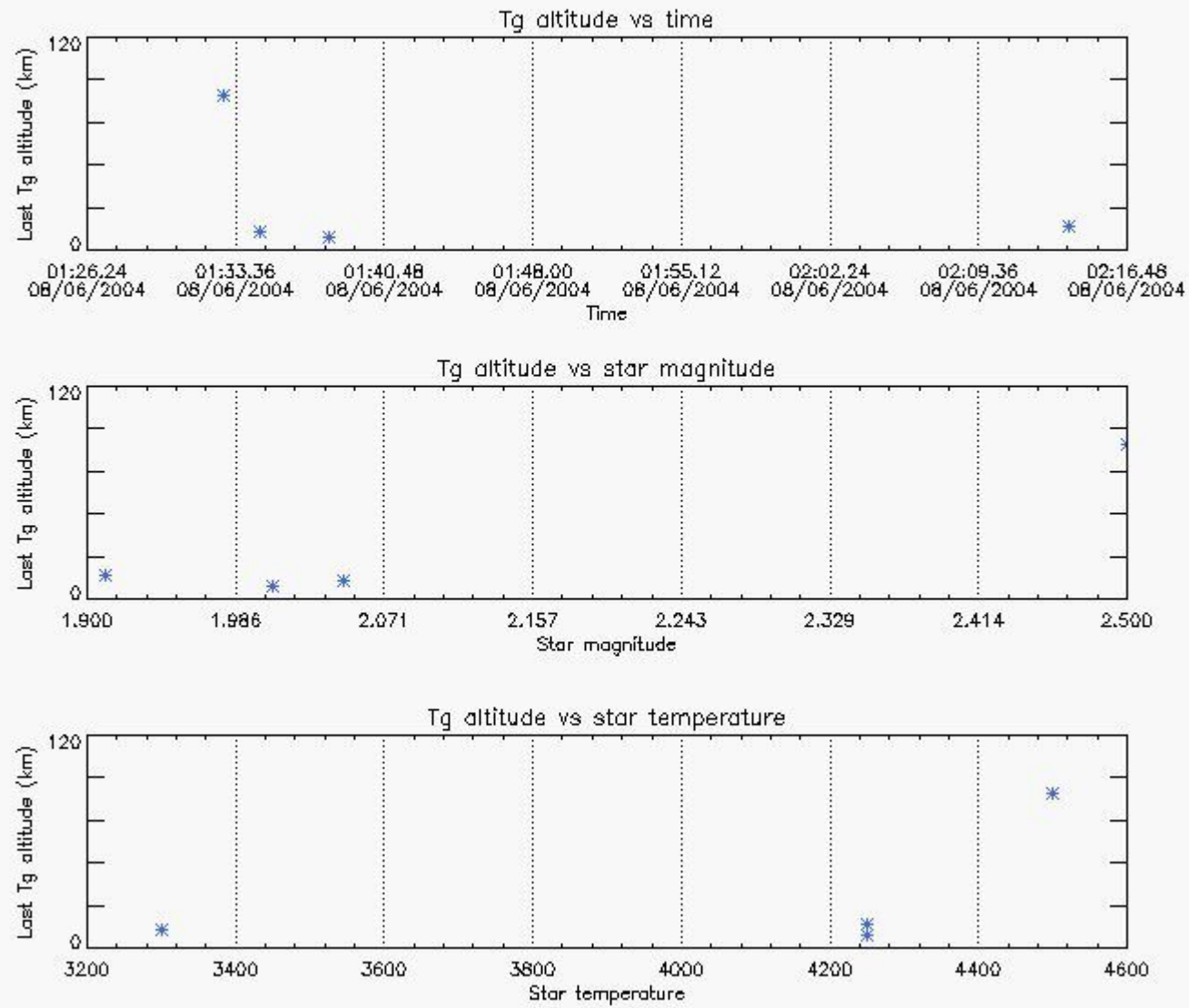
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



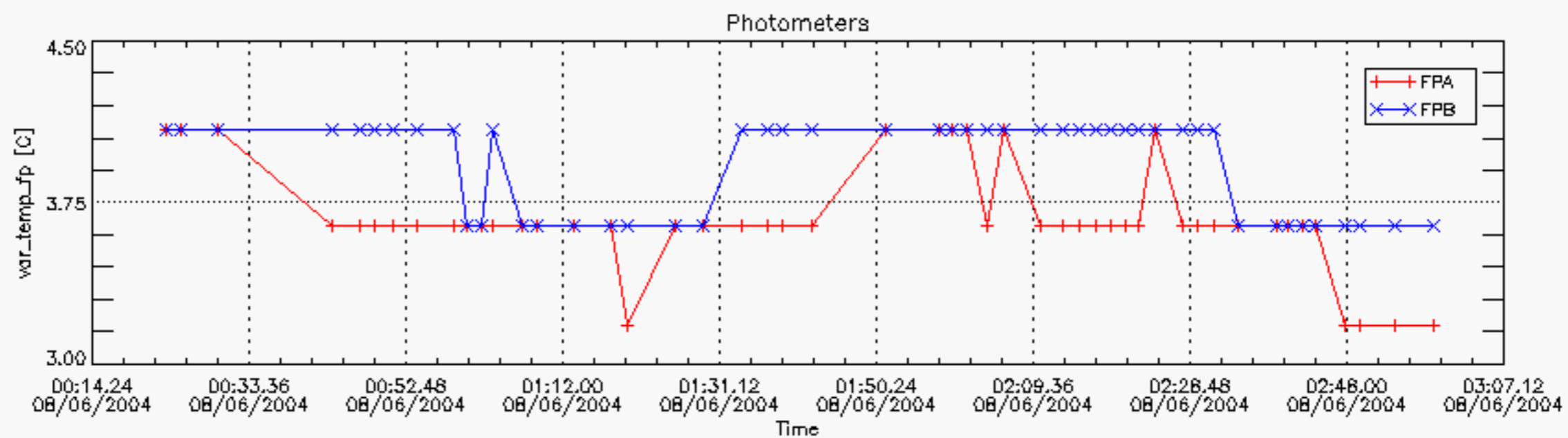
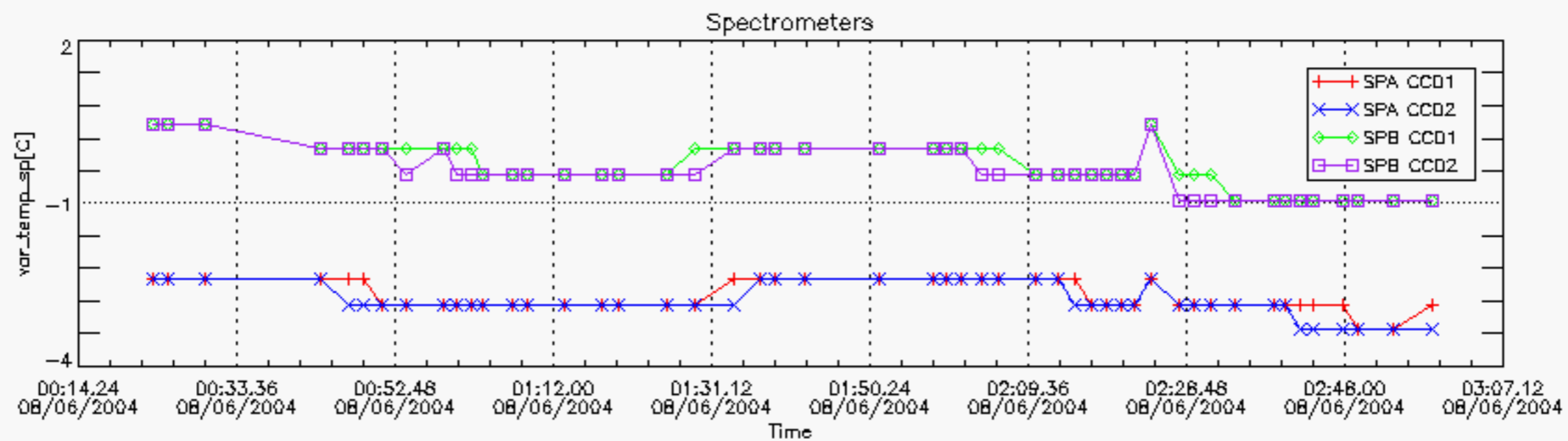
### Tangent altitude at which the star is lost

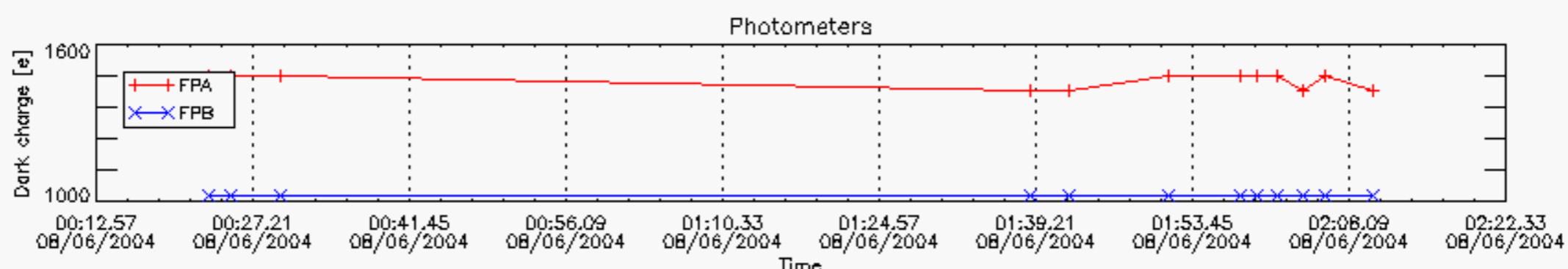
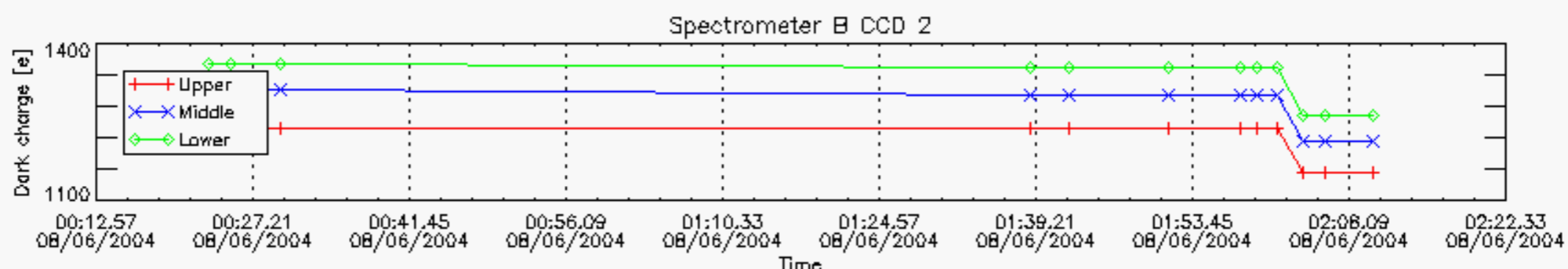
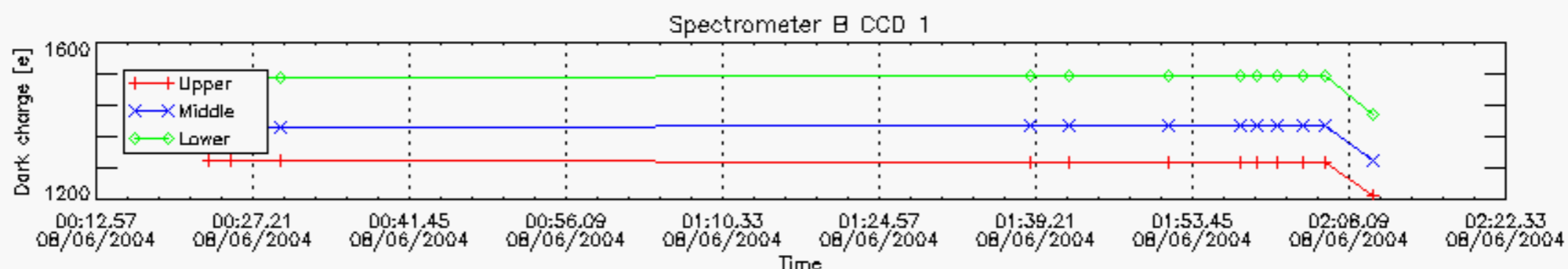
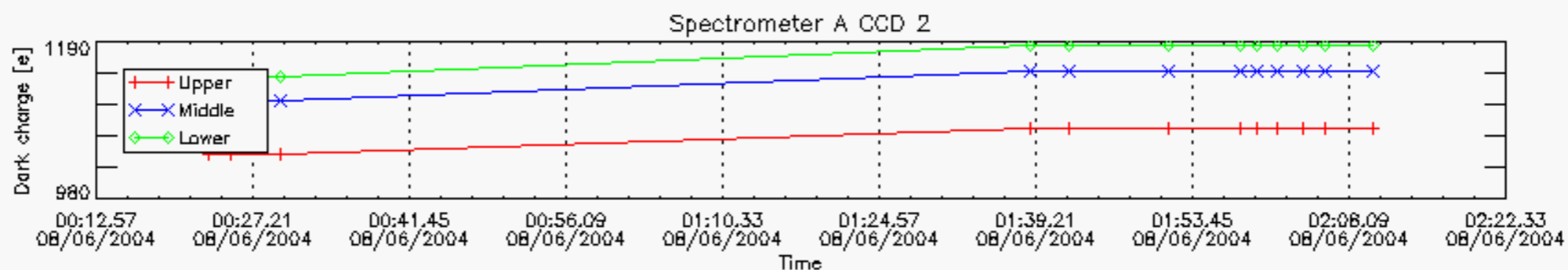
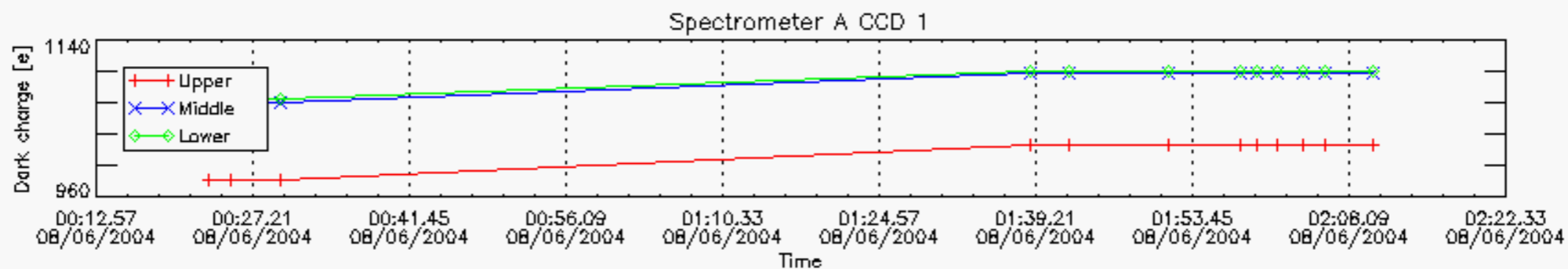


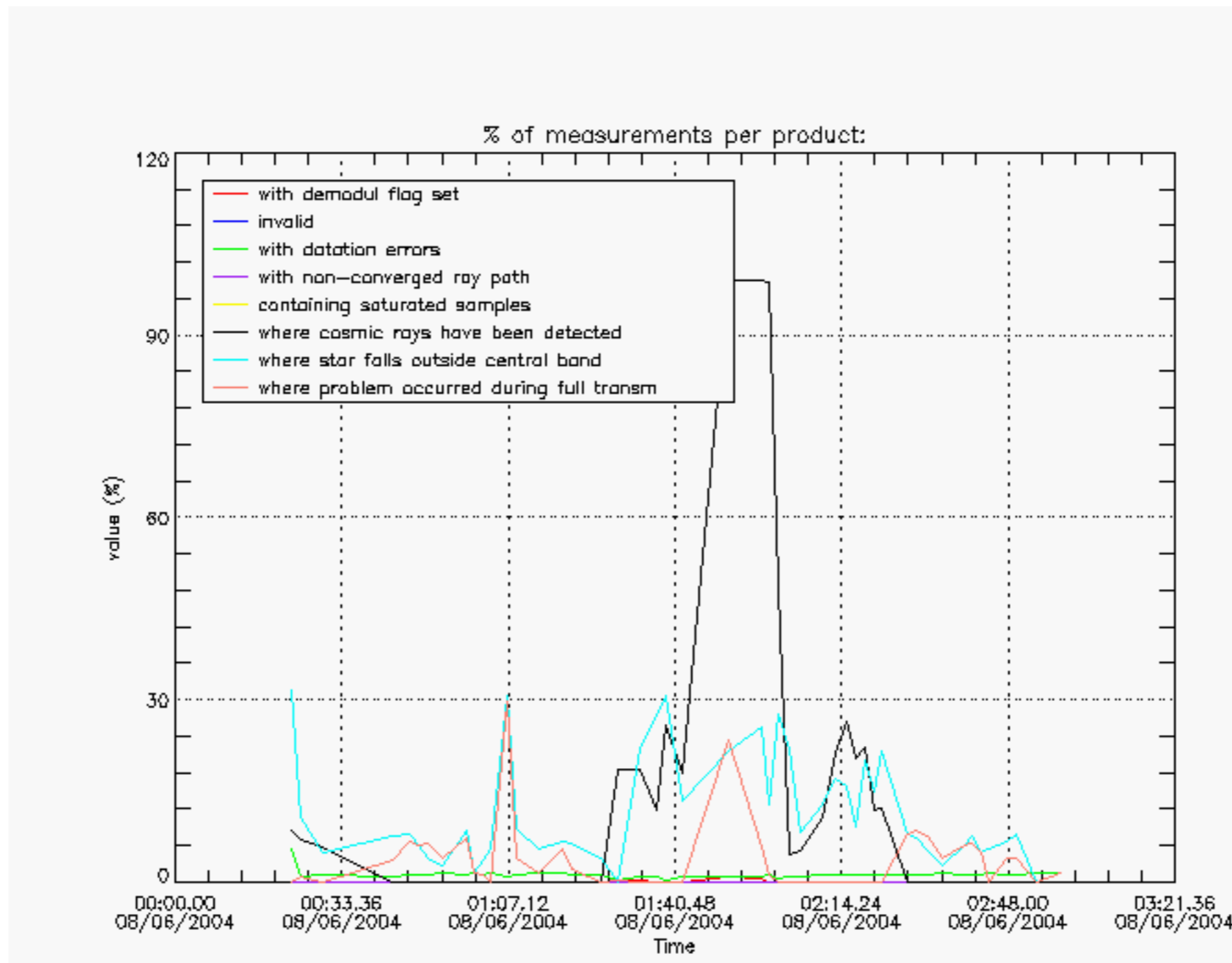
### 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.2	1448.5	1461.3	1446.8
St. deviation:	4.5012	5.7677	7.2406	8.2863
Maximum:	1663.0	1503.0	1525.0	1492.0
Minimum:	1445.0	1431.0	1441.0	1425.0
Number of data:	17650.	17650.	35950.	35950.

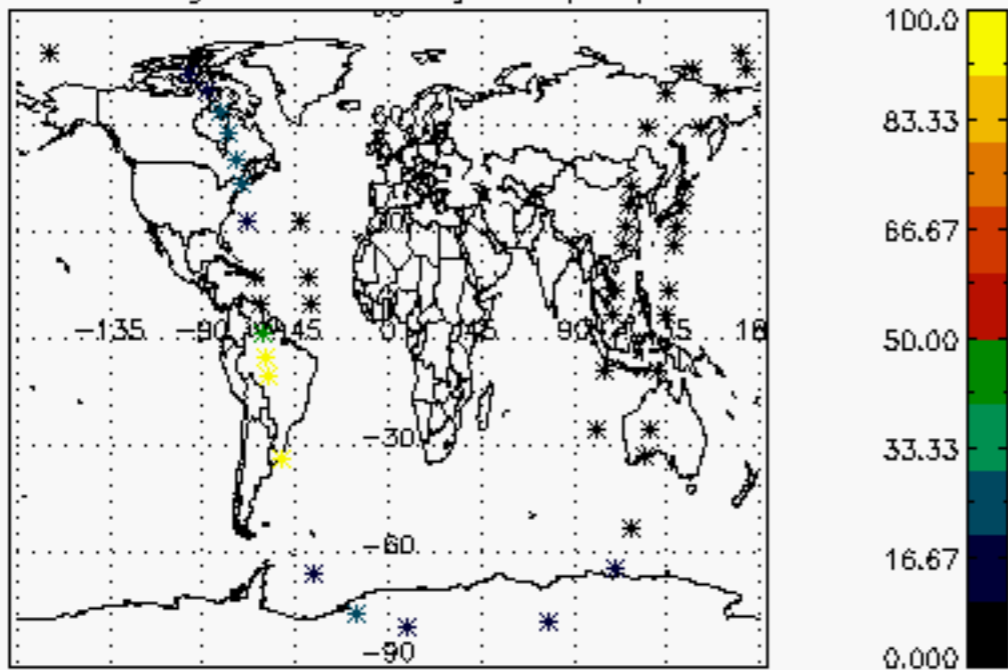




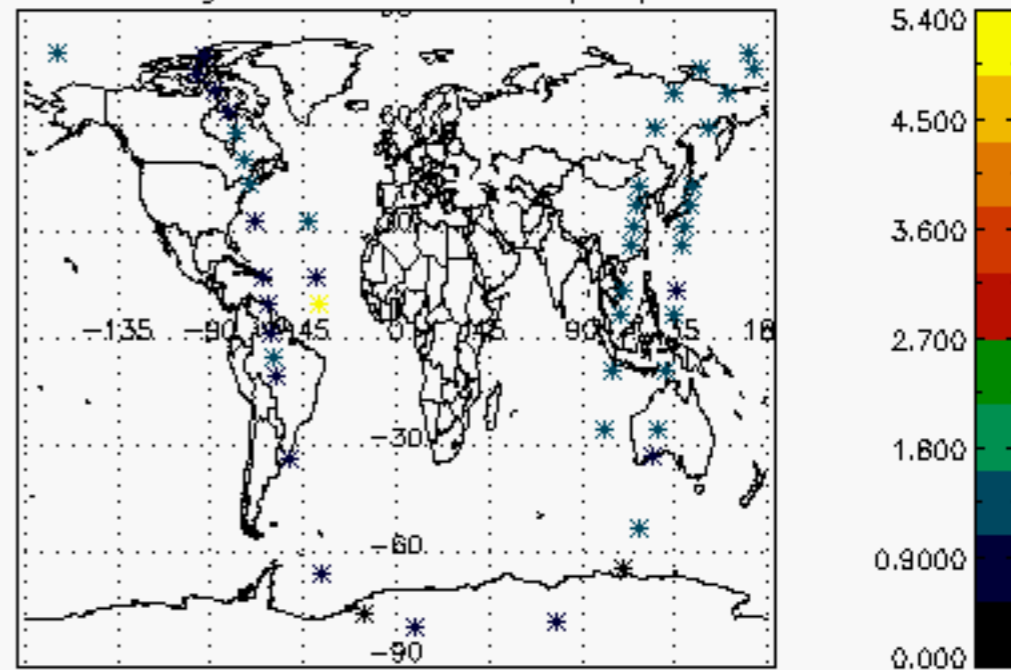




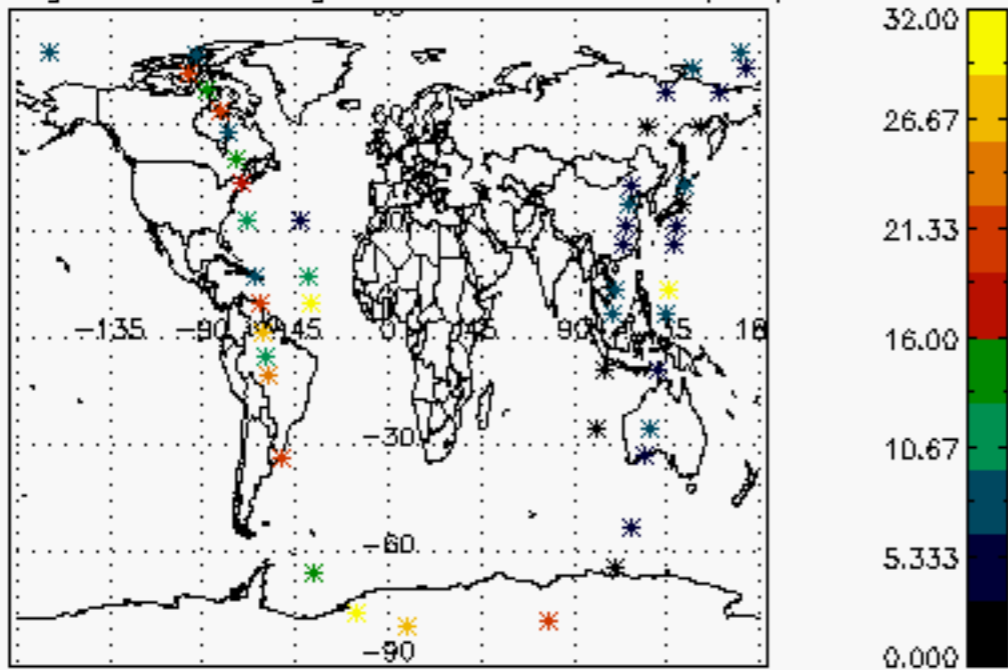
Percentage of cosmic ray hits per profile



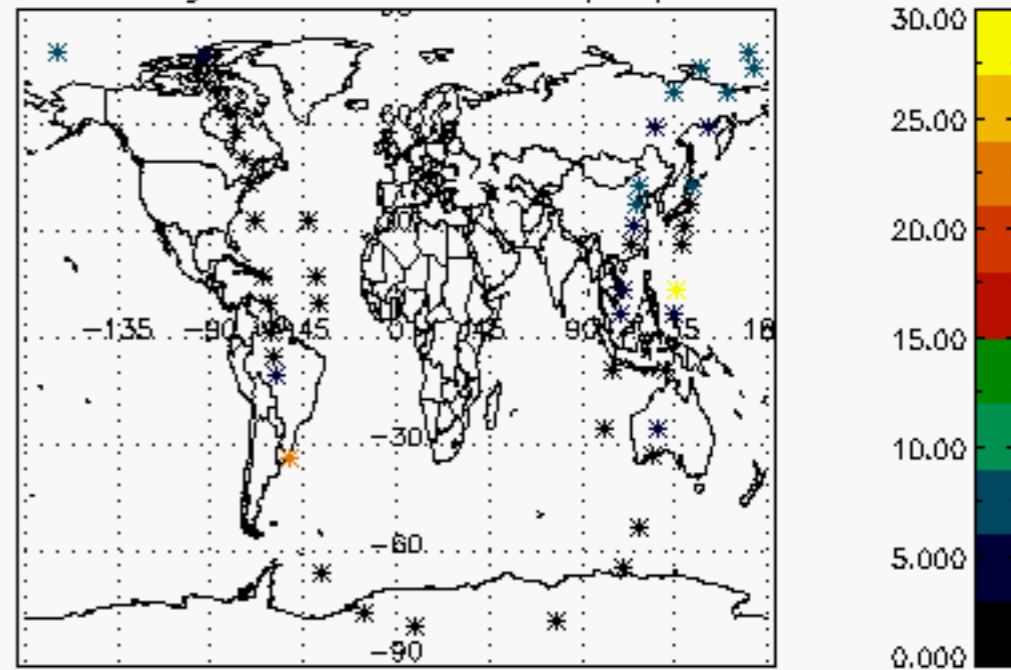
Percentage of datation errors per profile



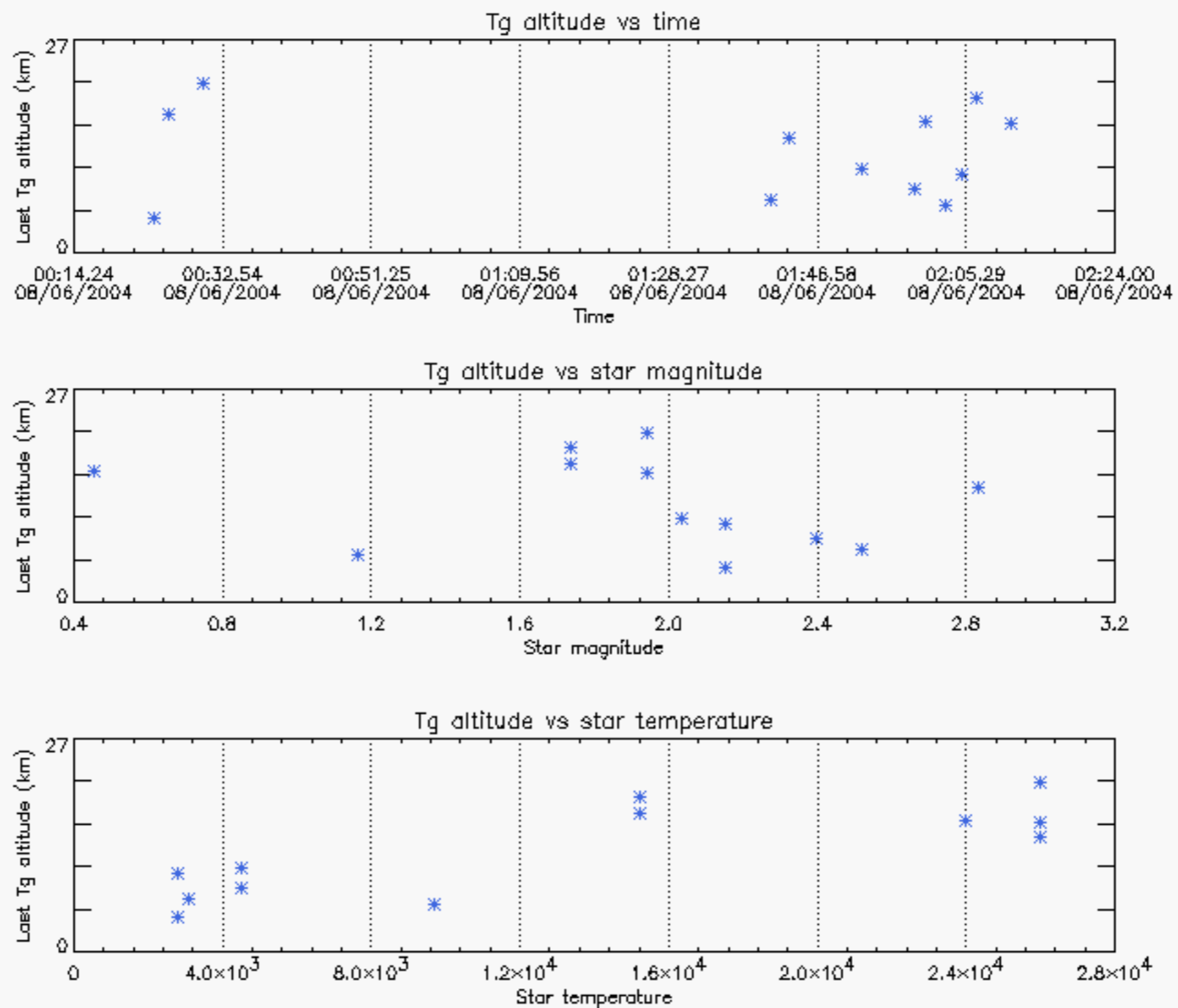
Percentage of star falling outside central band per profile



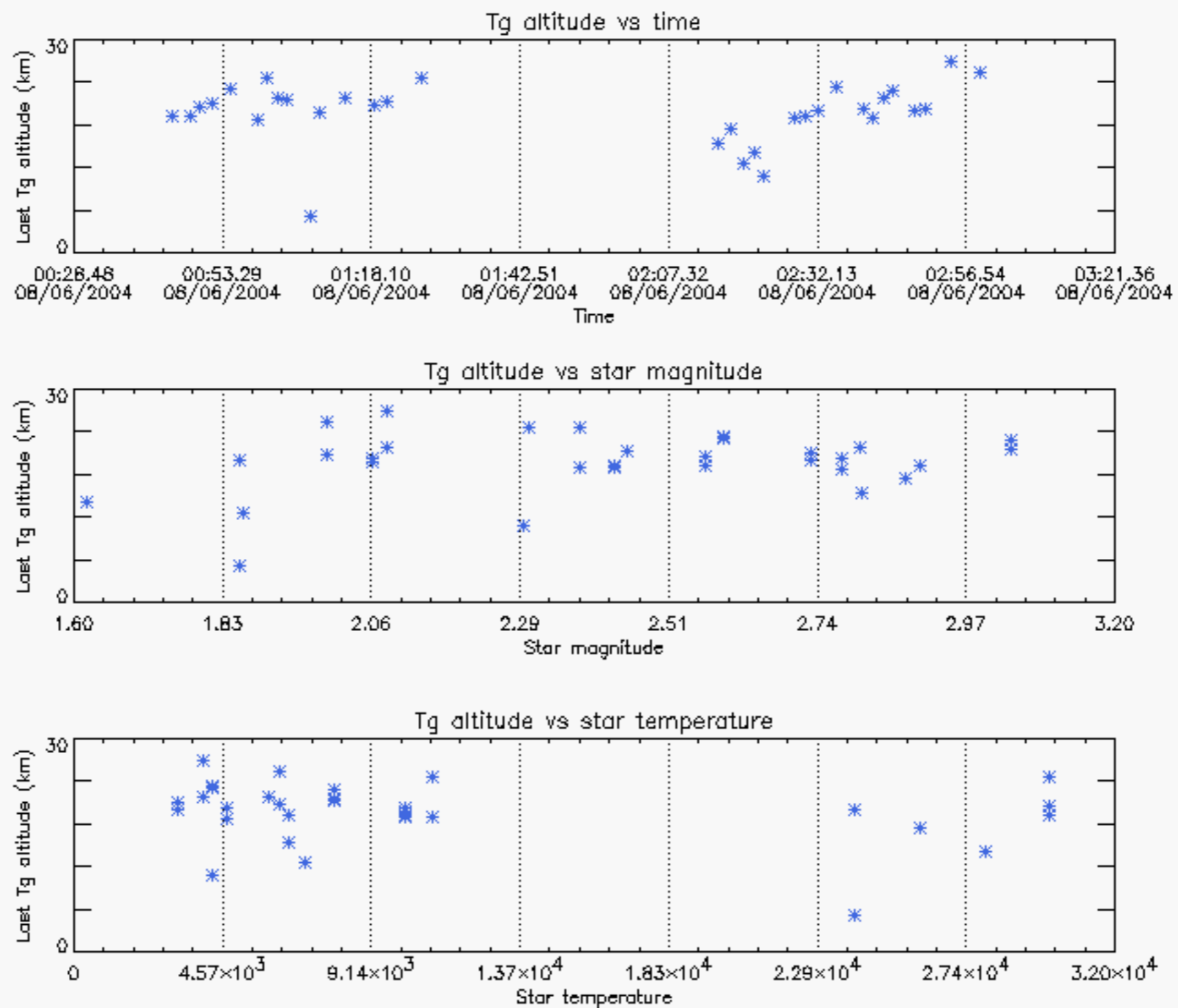
Percentage of saturation errors per profile



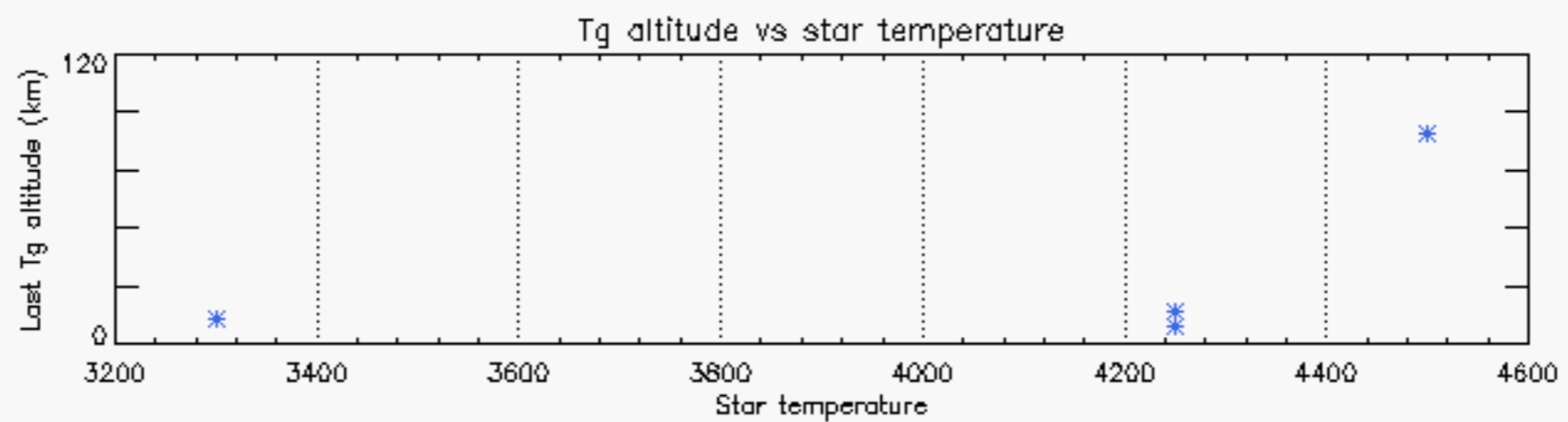
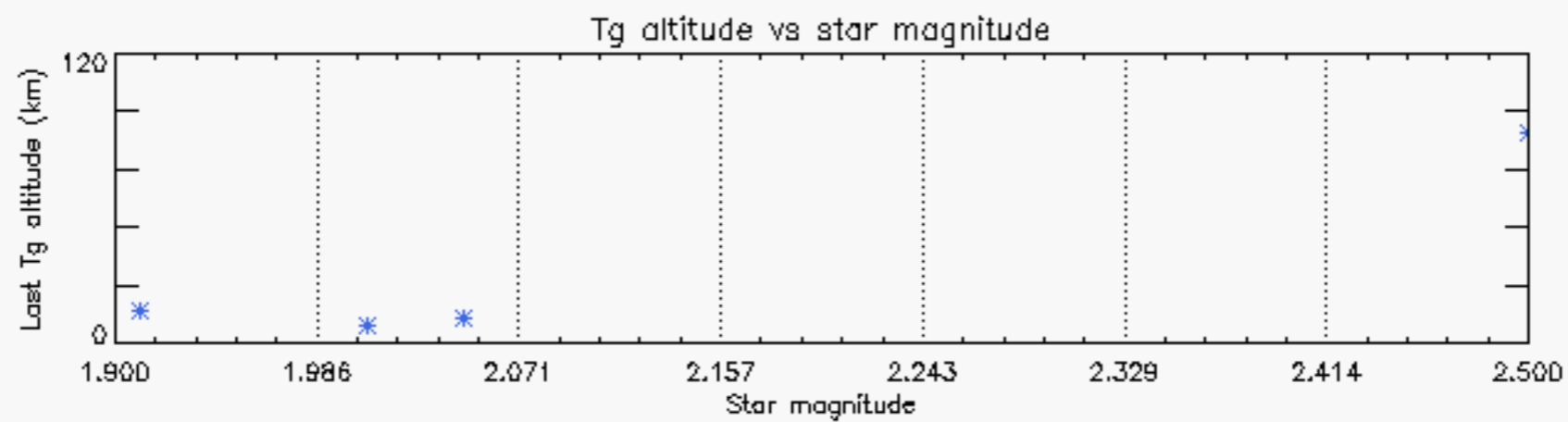
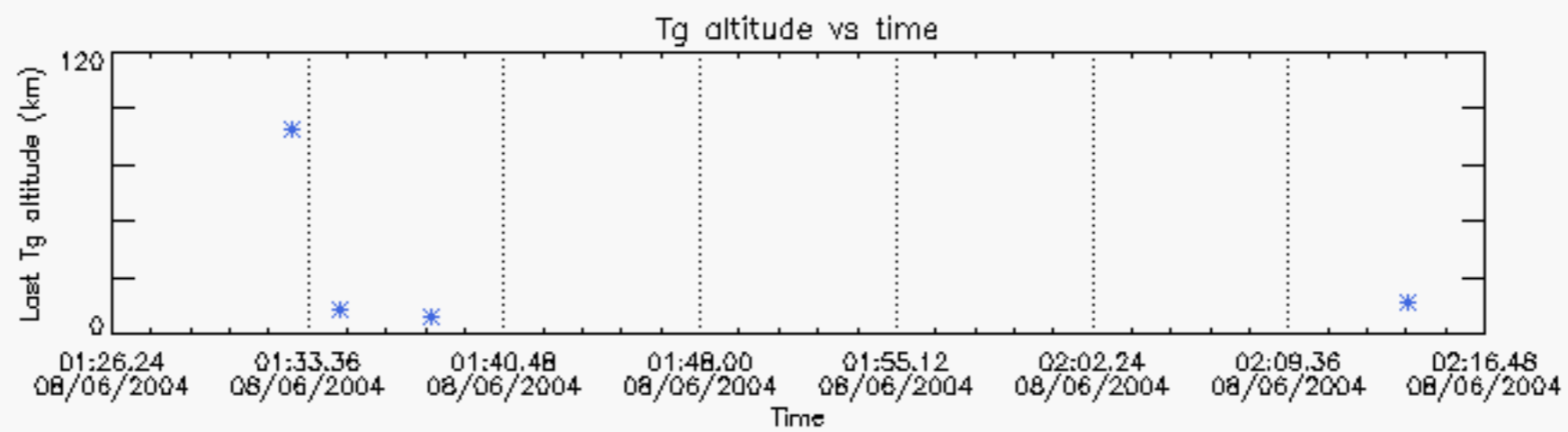
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





/data4\_2/GOMOS/level0/GOM\_NL\_0PNPDK20040601\_060933\_000061532027\_00206\_11783\_0854.N1

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
14;	-1623.2;	01-JUN-2004	06:56:00;	Dark	; 180.0;	92;	53Eps Cyg	; 2.50;	4500;occ;	360;	0;	11783
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
17;	-975.5;	01-JUN-2004	07:06:48;	Dark	; 89.0;	90;	54Alp Peg	; 2.49;	11000;occ;	178;	0;	11783
18;	-639.9;	01-JUN-2004	07:12:24;	Dark	; 50.0;	52;	16Bet Cet	; 2.04;	4500;occ;	100;	0;	11783
19;	-471.2;	01-JUN-2004	07:15:12;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	11783
20;	-238.3;	01-JUN-2004	07:19:05;	Dark	; 44.5;	84;	Alp Phe	; 2.40;	4500;occ;	89;	0;	11783
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
30;	1252.0;	01-JUN-2004	07:43:56;	Dark	; 48.0;	75;	26Eps Sco	; 2.29;	4250;occ;	96;	0;	11784
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
34;	1701.5;	01-JUN-2004	07:51:25;	Bright;	42.0;	98;	13Zet Oph	; 2.57;	30000;occ;	84;	0;	11784

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2;	-4022.3;	01-JUN-2004	07:56:37;	Bright;	37.5;	102;	24Alp Ser	; 2.60;	4250;occ;	75;	0;	11784
3;	-3779.4;	01-JUN-2004	08:00:40;	Bright;	36.0;	3;	16Alp Boo	; -0.05;	4250;occ;	72;	0;	11784
4;	-3664.5;	01-JUN-2004	08:02:35;	Bright;	38.0;	83;		; 2.38;	11000;occ;	76;	0;	11784
5;	-3473.0;	01-JUN-2004	08:05:46;	Bright;	35.0;	180;	27Gam Boo	; 3.04;	8000;occ;	70;	0;	11784
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
12;	-1624.8;	01-JUN-2004	08:36:35;	Dark	; 180.0;	92;	53Eps Cyg	; 2.50;	4500;occ;	360;	0;	11784
13;	-1385.0;	01-JUN-2004	08:40:34;	Dark	; 94.0;	93;	53Bet Peg	; 2.52;	3100;occ;	188;	0;	11784
14;	-1180.3;	01-JUN-2004	08:43:59;	Dark	; 54.5;	140;	88Gam Peg	; 2.83;	26000;occ;	109;	0;	11784
15;	-974.1;	01-JUN-2004	08:47:25;	Dark	; 87.5;	90;	54Alp Peg	; 2.49;	11000;occ;	175;	0;	11784
16;	-639.4;	01-JUN-2004	08:53:00;	Dark	; 48.0;	52;	16Bet Cet	; 2.04;	4500;occ;	96;	0;	11784
17;	-471.0;	01-JUN-2004	08:55:48;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	11784
18;	-238.2;	01-JUN-2004	08:59:41;	Dark	; 46.5;	84;	Alp Phe	; 2.40;	4500;occ;	93;	0;	11784
19;	-111.3;	01-JUN-2004	09:01:48;	Dark	; 42.0;	9;	Alp Eri	; 0.45;	24000;occ;	84;	0;	11784
20;	84.2;	01-JUN-2004	09:05:04;	Dark	; 61.5;	63;	Bet Gru	; 2.15;	2800;occ;	123;	0;	11785
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
28;	1252.1;	01-JUN-2004	09:24:32;	Dark	; 48.5;	75;	26Eps Sco	; 2.29;	4250;occ;	97;	0;	11785
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
32;	1701.3;	01-JUN-2004	09:32:01;	Bright;	42.5;	98;	13Zet Oph	; 2.57;	30000;occ;	85;	0;	11785

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2;	-4203.3;	01-JUN-2004	09:34:12;	Bright;	40.0;	120;	1Del Oph	; 2.73;	3200;occ;	80;	0;	11785
3;	-4022.5;	01-JUN-2004	09:37:13;	Bright;	37.5;	102;	24Alp Ser	; 2.60;	4250;occ;	75;	0;	11785
4;	-3779.4;	01-JUN-2004	09:41:16;	Bright;	38.5;	3;	16Alp Boo	; -0.05;	4250;occ;	77;	0;	11785
5;	-3669.2;	01-JUN-2004	09:43:06;	Bright;	38.5;	67;	5Alp CrB	; 2.22;	11000;occ;	77;	0;	11785
6;	-3473.5;	01-JUN-2004	09:46:22;	Bright;	36.0;	180;	27Gam Boo	; 3.04;	8000;occ;	72;	0;	11785
7;	-3267.9;	01-JUN-2004	09:49:47;	Bright;	38.5;	39;	85Eta UMa	; 1.85;	24000;occ;	77;	0;	11785
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
10;	-2871.8;	01-JUN-2004	09:56:23;	Bright;	39.0;	60;	7Bet UMi	; 2.08;	3950;occ;	78;	0;	11785
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
13;	-2271.4;	01-JUN-2004	10:06:24;	Bright;	83.0;	19;	50Alp Cyg	; 1.25;	10500;occ;	166;	0;	11785
14;	-2109.3;	01-JUN-2004	10:09:06;	Bright;	37.5;	76;	27Gam Cas	; 2.30;	30000;occ;	75;	0;	11785
15;	-1642.5;	01-JUN-2004	10:16:53;	Bright;	46.5;	53;	43Bet And	; 2.05;	3300;occ;	93;	0;	11785
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
20;	-639.0;	01-JUN-2004	10:33:36;	Dark	; 50.0;	52;	16Bet Cet	; 2.04;	4500;occ;	100;	0;	11785
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
30;	1039.3;	01-JUN-2004	11:01:35;	Dark	; 51.5;	40;	The Sco	; 1.86;	7100;occ;	103;	0;	11786
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
35;	1590.0;	01-JUN-2004	11:10:45;	Bright;	45.5;	86;	35Eta Oph	; 2.43;	10200;occ;	91;	0;	11786

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2;	-4335.0;	01-JUN-2004	11:12:36;	Bright;	44.0;	98;	13Zet Oph	; 2.57;	30000;occ;	88;	0;	11786
3;	-4203.7;	01-JUN-2004	11:14:47;	Bright;	41.5;	120;	1Del Oph	; 2.73;	3200;occ;	83;	0;	11786
4;	-4023.0;	01-JUN-2004	11:17:48;	Bright;	38.0;	102;	24Alp Ser	; 2.60;	4250;occ;	76;	0;	11786
5;	-3779.8;	01-JUN-2004	11:21:51;	Bright;	40.5;	3;	16Alp Boo	; -0.05;	4250;occ;	81;	0;	11786
6;	-3669.5;	01-JUN-2004	11:23:42;	Bright;	40.0;	67;	5Alp CrB	; 2.22;	11000;occ;	80;	0;	11786
7;	-3474.4;	01-JUN-2004	11:26:57;	Bright;	37.0;	180;	27Gam Boo	; 3.04;	8000;occ;	74;	0;	11786
8;	-3268.7;	01-JUN-2004	11:30:23;	Bright;	38.5;	39;	85Eta UMa	; 1.85;	24000;occ;	77;	0;	11786
9;	-3162.0;	01-JUN-2004	11:32:09;	Bright;	40.5;	55;	79Zet UMa	; 2.06;	10200;occ;	81;	0;	11786
10;	-3036.8;	01-JUN-2004	11:34:14;	Bright;	41.0;	119;	14Eta Dra	; 2.73;	4700;occ;	82;	0;	11786
11;	-2874.7;	01-JUN-2004	11:36:57;	Bright;	41.5;	60;	7Bet UMi	; 2.08;	3950;occ;	83;	0;	11786
12;	-2592.3;	01-JUN-2004	11:41:39;	Bright;	39.0;	49;	1Alp UMi	; 1.99;	6300;occ;	78;	0;	11786
13;	-2415.0;	01-JUN-2004	11:44:36;	Bright;	47.5;	89;	5Alp Cep	; 2.45;	8000;occ;	95;	0;	11786
14;	-2272.9;	01-JUN-2004	11:46:58;	Bright;	83.0;	19;	50Alp Cyg	; 1.25;	10500;occ;	166;	0;	11786
15;	-2109.8;	01-JUN-2004	11:49:41;	Bright;	38.5;	76;	27Gam Cas	; 2.30;	30000;occ;	77;	0;	11786
16;	-1642.0;	01-JUN-2004	11:57:29;	Bright;	47.5;	53;	43Bet And	; 2.05;	3300;occ;	95;	0;	11786
17;	-1479.1;	01-JUN-2004	12:00:12;	Dark	; 57.0;	58;	21Alp And	; 2.07;	11000;occ;	114;	0;	11786
18;	-1384.1;	01-JUN-2004	12:01:47;	Dark	; 85.0;	93;	53Bet Peg	; 2.52;	3100;occ;	170;	0;	11786
19;	-1179.0;	01-JUN-2004	12:05:12;	Dark	; 54.0;	140;	88Gam Peg	; 2.83;	26000;occ;	108;	0;	11786
20;	-970.9;	01-JUN-2004	12:08:40;	Dark	; 89.5;	90;	54Alp Peg	; 2.49;	11000;occ;	179;	0;	11786
21;	-639.4;	01-JUN-2004	12:14:12;	Dark	; 52.5;	52;	16Bet Cet	; 2.04;	4500;occ;	105;	0;	11786
22;	-470.6;	01-JUN-2004	12:17:01;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	11786
23;	-237.6;	01-JUN-2004	12:20:54;	Dark	; 45.5;	84;	Alp Phe	; 2.40;	4500;occ;	91;	0;	11786
24;	-111.0;	01-JUN-2004	12:23:00;	Dark	; 44.5;	9;	Alp Eri	; 0.45;	24000;occ;	89;	0;	11786
25;	85.5;	01-JUN-2004	12:26:17;	Dark	; 49.0;	63;	Bet Gru	; 2.15;	2800;occ;	98;	0;	11787
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
31;	1039.4;	01-JUN-2004	12:42:11;	Dark	; 49.0;	40;	The Sco	; 1.86;	7100;occ;	98;	0;	11787

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27;	621.9;	15-JUN-2004	05:12:35;	Dark	;	44.5;	45;	Alp Pav	;	1.94;	26000;occ;	89;	0;	11983
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26;	396.8;	15-JUN-2004	16:53:02;	Dark	;	50.5;	31;	Alp Gru	;	1.73;	15200;occ;	101;	0;	11990
27;	626.1;	15-JUN-2004	16:56:51;	Dark	;	44.0;	45;	Alp Pav	;	1.94;	26000;occ;	88;	0;	11990
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29; 634.4;	16-JUN-2004	18:05:58;	Dark	;	44.0;	45;	Alp Pav	;	1.94;	26000;occ;	88;	0;12005
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26; 675.3; 21-JUN-2004 08:46:10; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;12071
27; 949.4; 21-JUN-2004 08:50:44; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;12071
28; 1033.7; 21-JUN-2004 08:52:08; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;12071
29; 1140.0; 21-JUN-2004 08:53:55; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;12071
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31; 1321.6; 21-JUN-2004 08:56:56; Dark ; 45.0; 116; 19Del Sgr ; 2.70; 4100;occ; 90; 0;12071
32; 1452.9; 21-JUN-2004 08:59:08; Bright; 50.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 100; 0;12071
33; 1624.7; 21-JUN-2004 09:01:59; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;12071
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2;	-4181.0;	21-JUN-2004	09:05:49;	Bright;	35.0;	120;	1Del Oph	;	2.73;	3200;occ;	70;	0;	12071
3;	-4043.5;	21-JUN-2004	09:08:07;	Bright;	39.5;	126;	60Bet Oph	;	2.77;	4250;occ;	79;	0;	12071
4;	-3897.8;	21-JUN-2004	09:10:33;	Bright;	38.5;	59;	55Alp Oph	;	2.08;	8900;occ;	77;	0;	12071
5;	-3761.3;	21-JUN-2004	09:12:49;	Bright;	34.5;	127;	27Bet Her	;	2.78;	4700;occ;	69;	0;	12071
6;	-3653.9;	21-JUN-2004	09:14:37;	Bright;	34.0;	67;	5Alp CrB	;	2.22;	11000;occ;	68;	0;	12071
7;	-3400.5;	21-JUN-2004	09:18:50;	Bright;	37.0;	180;	27Gam Boo	;	3.04;	8000;occ;	74;	0;	12071
8;	-3196.0;	21-JUN-2004	09:22:14;	Bright;	38.5;	130;	23Bet Dra	;	2.80;	5800;occ;	77;	0;	12071
9;	-3081.4;	21-JUN-2004	09:24:09;	Bright;	35.5;	119;	14Eta Dra	;	2.73;	4700;occ;	71;	0;	12071
10;	-2859.4;	21-JUN-2004	09:27:51;	Bright;	33.0;	60;	7Bet UMi	;	2.08;	3950;occ;	66;	0;	12071
11;	-2589.1;	21-JUN-2004	09:32:21;	Bright;	35.5;	49;	1Alp UMi	;	1.99;	6300;occ;	71;	0;	12071
12;	-2187.9;	21-JUN-2004	09:39:03;	Bright;	45.0;	74;	11Bet Cas	;	2.27;	6600;occ;	90;	0;	12071
13;	-2097.5;	21-JUN-2004	09:40:33;	Bright;	65.0;	68;	18Alp Cas	;	2.22;	4500;occ;	130;	0;	12071
14;	-1970.3;	21-JUN-2004	09:42:40;	Bright;	34.5;	160;	23Gam Per	;	2.93;	4700;occ;	69;	0;	12071
15;	-1764.0;	21-JUN-2004	09:46:06;	Bright;	41.5;	73;	57Gam1And	;	2.26;	13100;occ;	83;	0;	12071
16;	-1618.8;	21-JUN-2004	09:48:32;	Dark	;	53;	43Bet And	;	2.05;	3300;occ;	117;	0;	12071
17;	-1394.2;	21-JUN-2004	09:52:16;	Dark	;	50;	13Alp Ari	;	2.01;	4250;occ;	98;	0;	12071
18;	-1105.9;	21-JUN-2004	09:57:05;	Dark	;	94;	92Alp Cet	;	2.53;	3100;occ;	99;	0;	12071
19;	-862.4;	21-JUN-2004	10:01:08;	Dark	;	165;	34Gam Eri	;	2.95;	3200;occ;	81;	0;	12071
20;	-513.7;	21-JUN-2004	10:06:57;	Dark	;	0;	;	;	0.00;	0;occ;	119;	0;	12071
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22;	-22.9;	21-JUN-2004	10:15:08;	Dark	;	9;	Alp Eri	;	0.45;	24000;occ;	78;	0;	12071
23;	339.7;	21-JUN-2004	10:21:10;	Dark	;	18;	24Alp PsA	;	1.17;	9700;occ;	144;	0;	12072
24;	479.4;	21-JUN-2004	10:23:30;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	96;	0;	12072
25;	676.5;	21-JUN-2004	10:26:47;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	81;	0;	12072
26;	949.9;	21-JUN-2004	10:31:20;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	79;	0;	12072
27;	1034.4;	21-JUN-2004	10:32:45;	Dark	;	147;	Alp Ara	;	2.88;	26000;occ;	76;	0;	12072
28;	1140.6;	21-JUN-2004	10:34:31;	Dark	;	40;	The Sco	;	1.86;	7100;occ;	79;	0;	12072
29;	1241.9;	21-JUN-2004	10:36:12;	Dark	;	25;	35Lam Sco	;	1.62;	28000;occ;	83;	0;	12072
30;	1322.3;	21-JUN-2004	10:37:33;	Dark	;	116;	19Del Sgr	;	2.70;	4100;occ;	118;	0;	12072
31;	1453.7;	21-JUN-2004	10:39:44;	Bright;	49.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	98;	0;	12072
32;	1625.0;	21-JUN-2004	10:42:35;	Bright;	36.0;	86;	35Eta Oph	;	2.43;	10200;occ;	72;	0;	12072

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4;	-3897.8;	21-JUN-2004	10:51:08;	Bright;	39.5;	59;	55Alp Oph	;	2.08;	8900;occ;	79;	0;	12072
5;	-3761.3;	21-JUN-2004	10:53:25;	Bright;	35.0;	127;	27Bet Her	;	2.78;	4700;occ;	70;	0;	12072
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7;	-3400.5;	21-JUN-2004	10:59:26;	Bright;	36.5;	180;	27Gam Boo	;	3.04;	8000;occ;	73;	0;	12072
8;	-3196.2;	21-JUN-2004	11:02:50;	Bright;	40.5;	130;	23Bet Dra	;	2.80;	5800;occ;	81;	0;	12072
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12;	-2188.3;	21-JUN-2004	11:19:38;	Bright;	61.0;	74;	11Bet Cas	;	2.27;	6600;occ;	122;	0;	12072
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18;	-1105.7;	21-JUN-2004	11:37:41;	Dark	;	94;	92Alp Cet	;	2.53;	3100;occ;	93;	0;	12072
19;	-862.5;	21-JUN-2004	11:41:44;	Dark	;	165;	34Gam Eri	;	2.95;	3200;occ;	79;	0;	12072
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22;	-22.7;	21-JUN-2004	11:55:44;	Dark	;	9;	Alp Eri	;	0.45;	24000;occ;	79;	0;	12072
23;	341.4;	21-JUN-2004	12:01:48;	Dark	;	18;	24Alp PsA	;	1.17;	9700;occ;	153;	0;	12073
24;	480.3;	21-JUN-2004	12:04:07;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	100;	0;	12073
25;	676.9;	21-JUN-2004	12:07:23;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	83;	0;	12073
26;	950.1;	21-JUN-2004	12:11:56;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	76;	0;	12073
27;	1034.5;	21-JUN-2004	12:13:21;	Dark	;	147;	Alp Ara	;	2.88;	26000;occ;	73;	0;	12073
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29;	1242.2;	21-JUN-2004	12:16:48;	Dark	;	25;	35Lam Sco	;	1.62;	28000;occ;	82;	0;	12073
30;	1322.5;	21-JUN-2004	12:18:09;	Dark	;	116;	19Del Sgr	;	2.70;	4100;occ;	92;	0;	12073
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