

# GOMOS Daily Report 18-JUL-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	22JUL2004 09:21:09
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-3D (18JUL2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-3D (19JUL2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	3
Nb of prods with errors	0

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

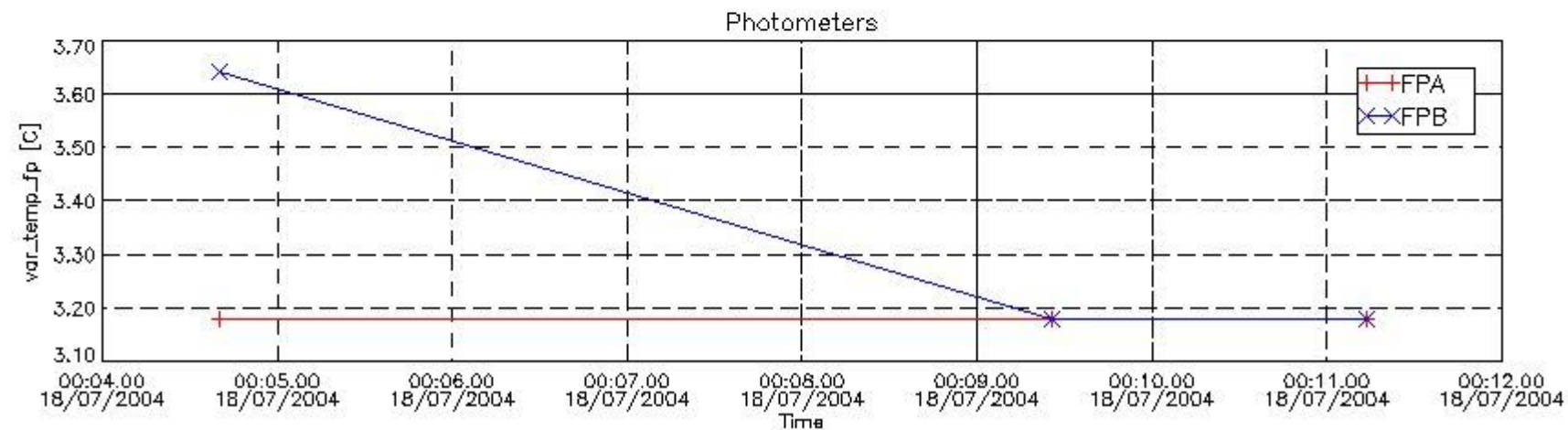
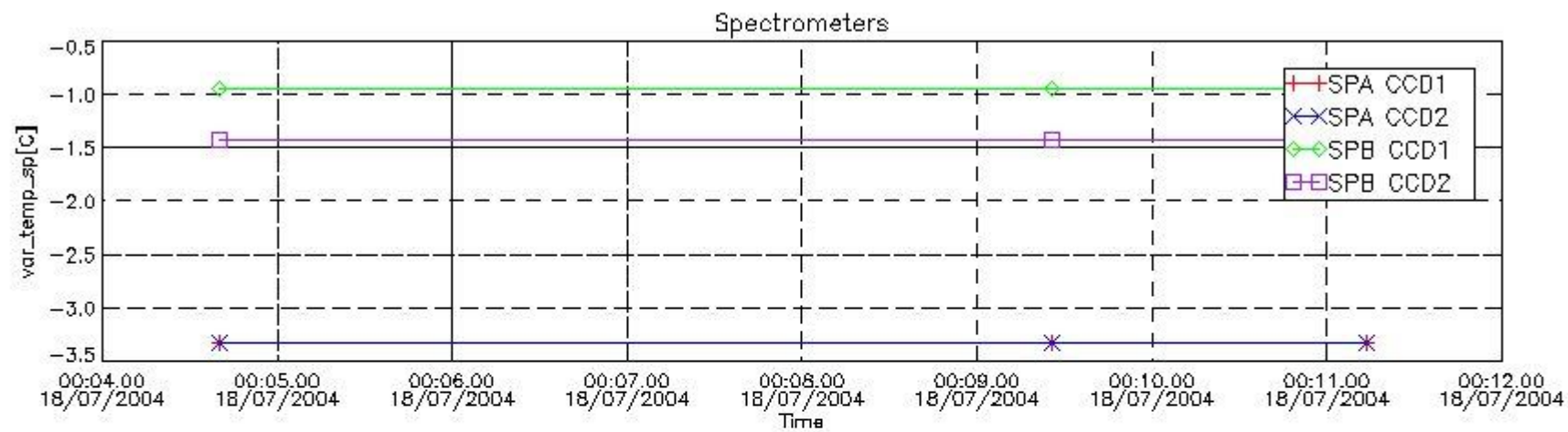
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 Summary of processed GOM\_TRA\_1P products

**!Warning: No products without errors in DARK limb contitions found**

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20040718_000440_000000402028_00374_12452_0013.N1	18-JUL-2004 00:04:40	Bright	39.500	133	40Zet Her	2.8070	6000.0	79	12452	No
GOM_TRA_1PNPDE20040718_000925_000000392028_00374_12452_0014.N1	18-JUL-2004 00:09:25	Bright	39.000	69	33Gam Dra	2.2310	3800.0	78	12452	No
GOM_TRA_1PNPDE20040718_001113_000000522028_00374_12452_0015.N1	18-JUL-2004 00:11:13	Bright	51.500	19	50Alp Cyg	1.2460	10500.	103	12452	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

No products without errors in DARK limb conditions found. No plot performed.

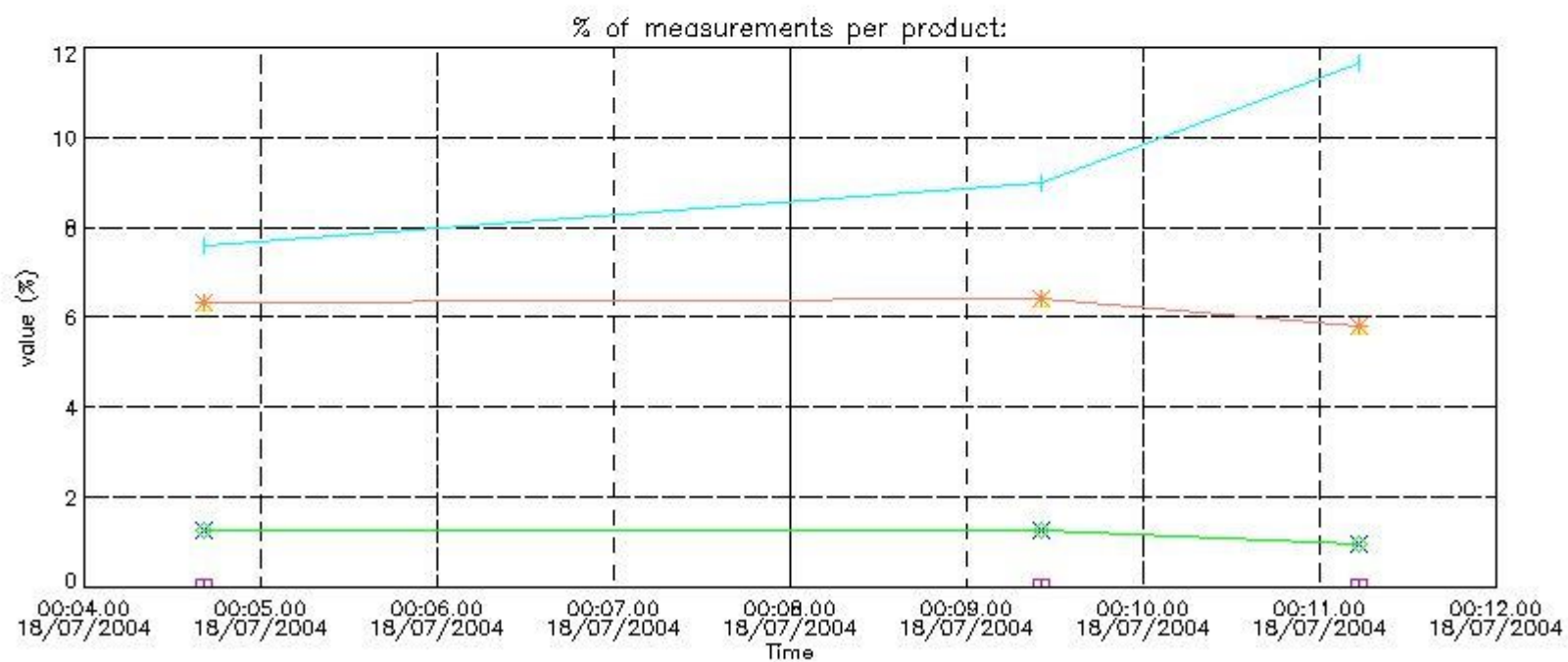
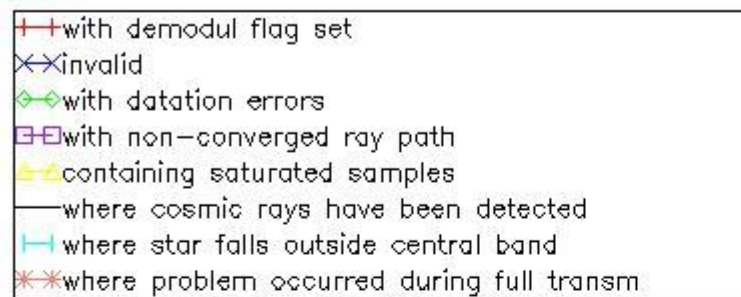
5. Demodulation flag and quality information monitoring

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:

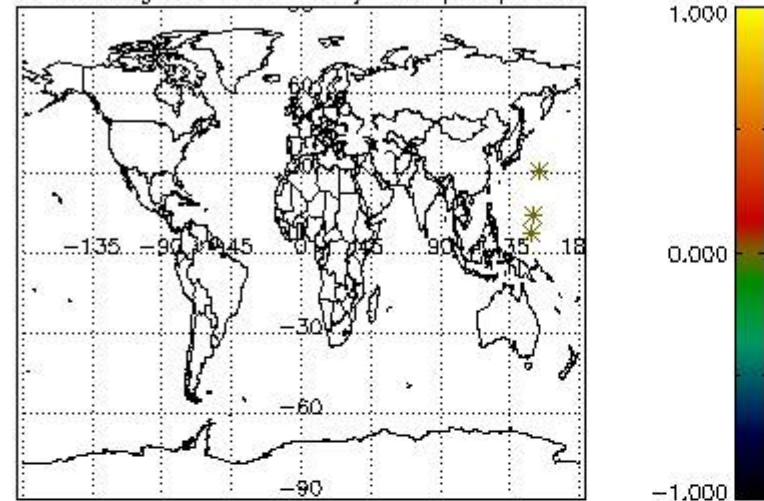
At least one measurement with demodulation flag set:	0.00000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

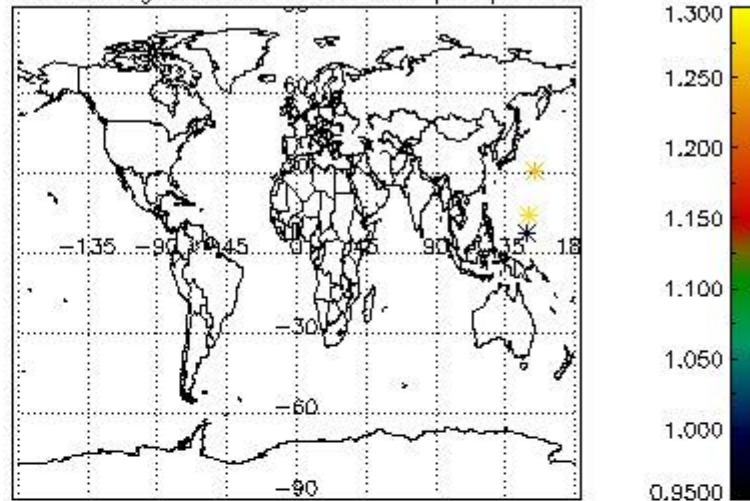


### 5.3 Plot quality information per product (world map)

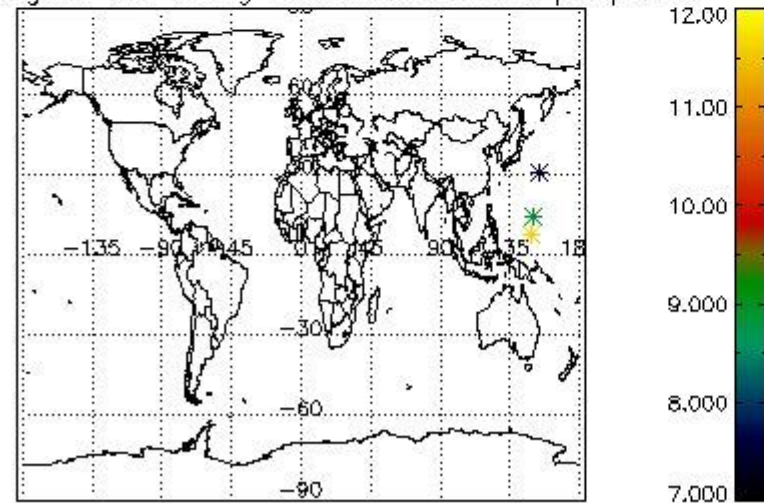
Percentage of cosmic ray hits per profile



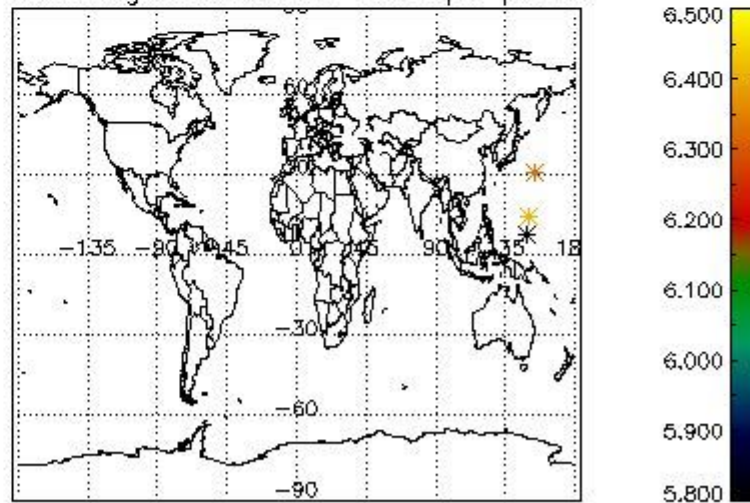
Percentage of datation errors per profile



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)

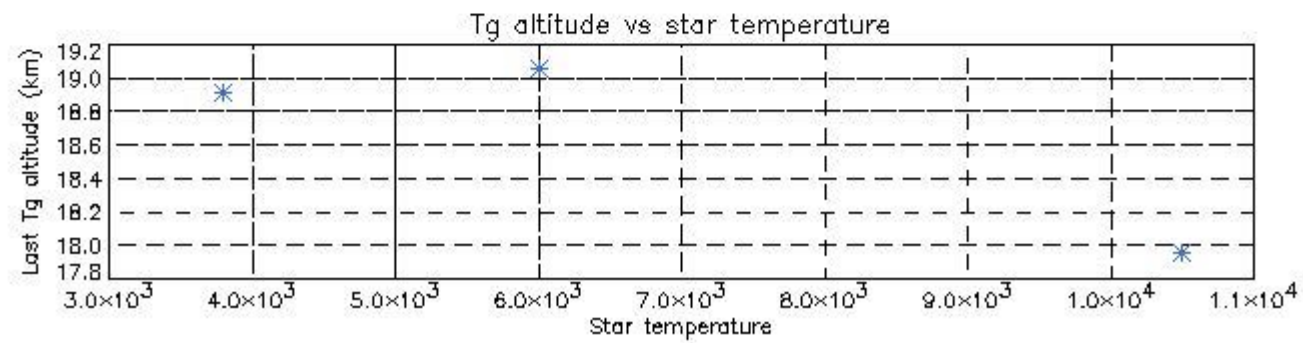
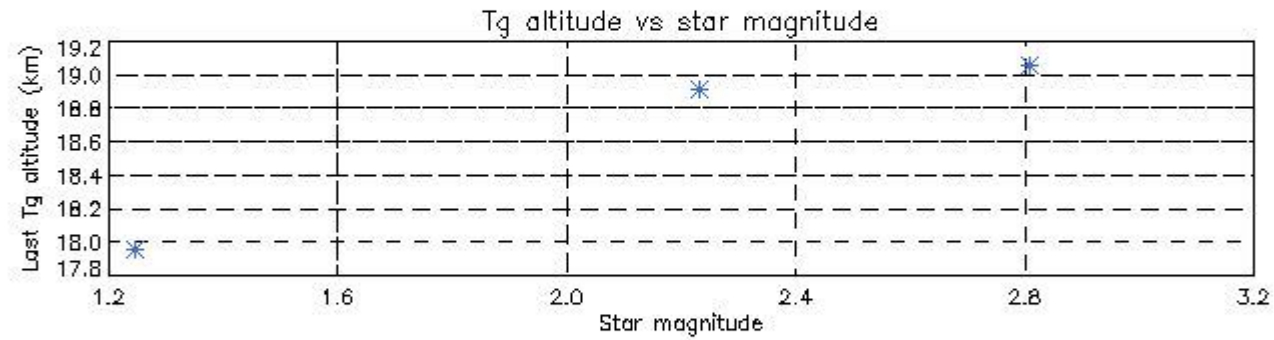
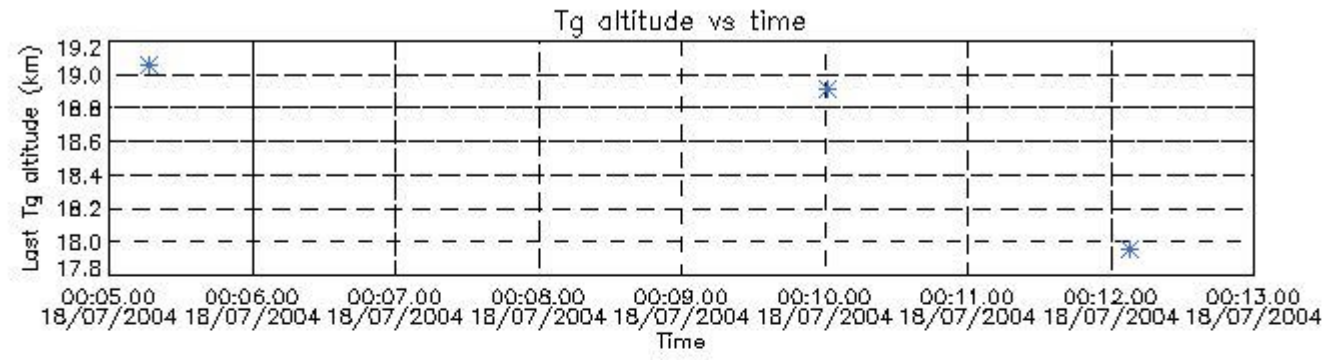
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	NaN	18.641	NaN
St. deviation:	NaN	0.60036	NaN
Maximum:	NaN	19.057	NaN
Minimum:	NaN	17.953	NaN
Number of data:	NaN	3.0000	NaN

### 6.3 Plot for BRIGHT limb products



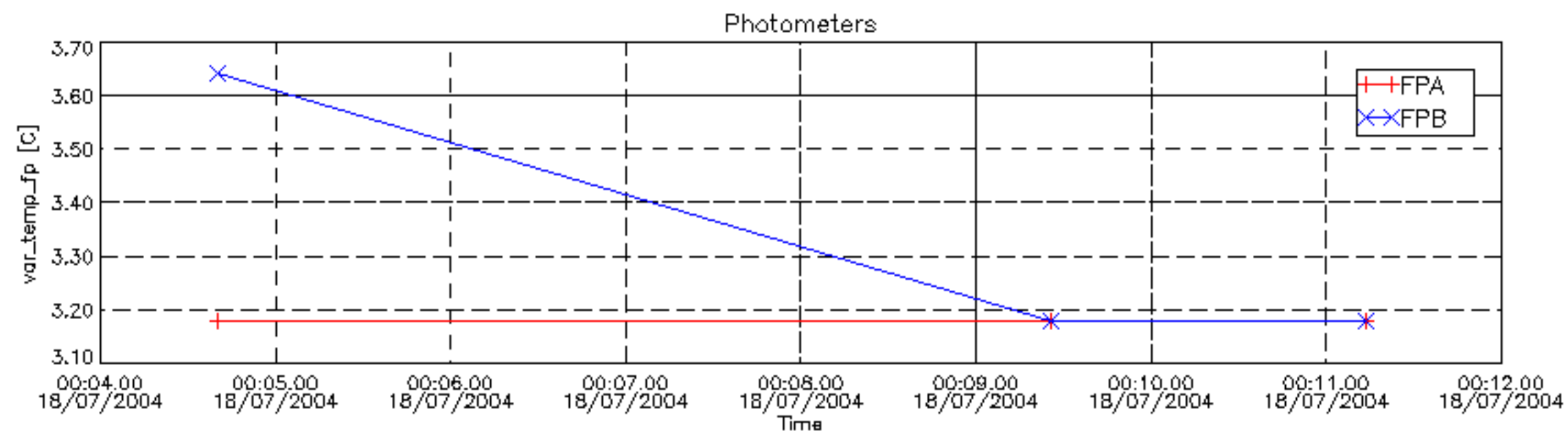
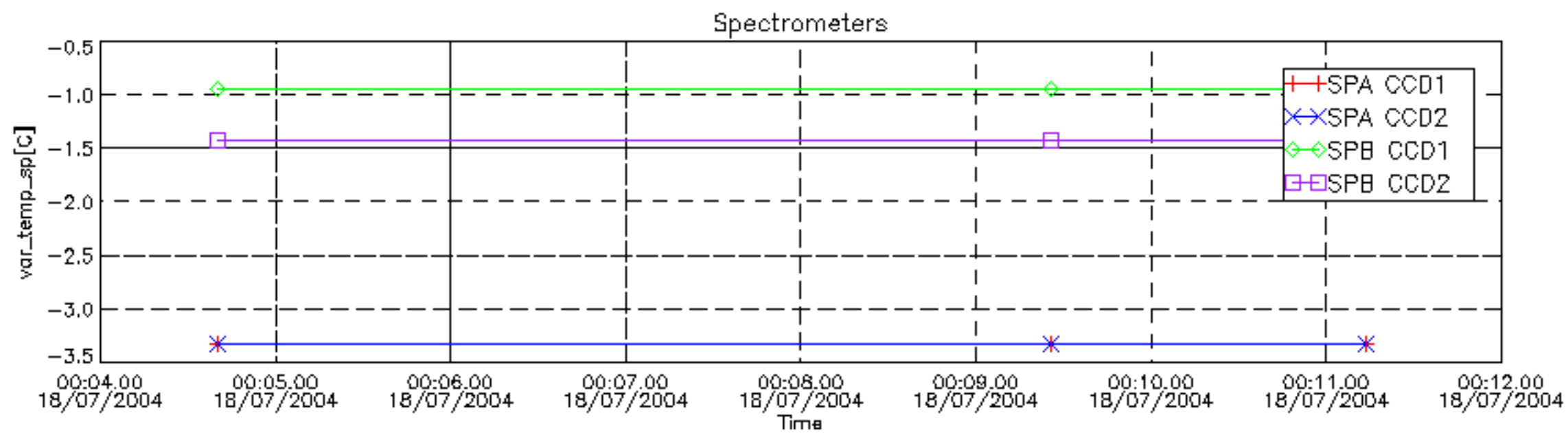
## Tangent altitude at which the star is lost

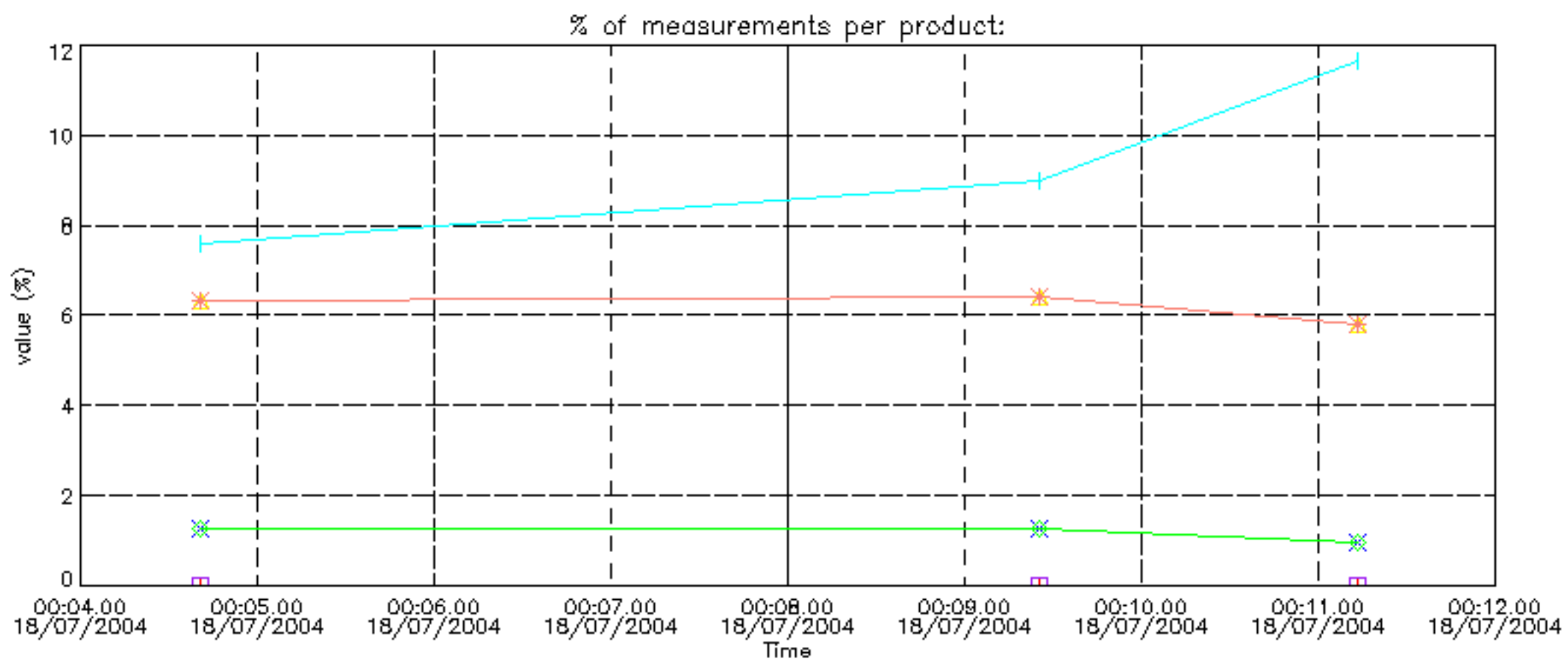
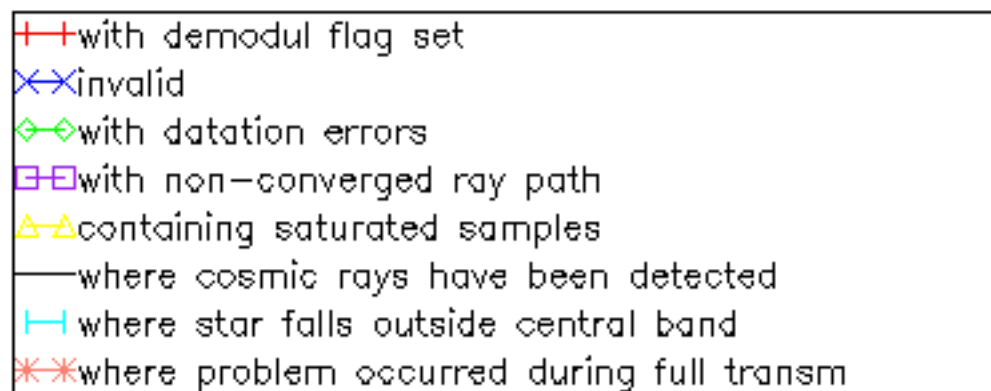


## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

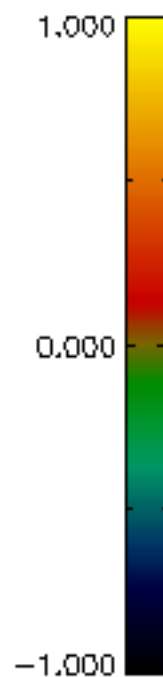
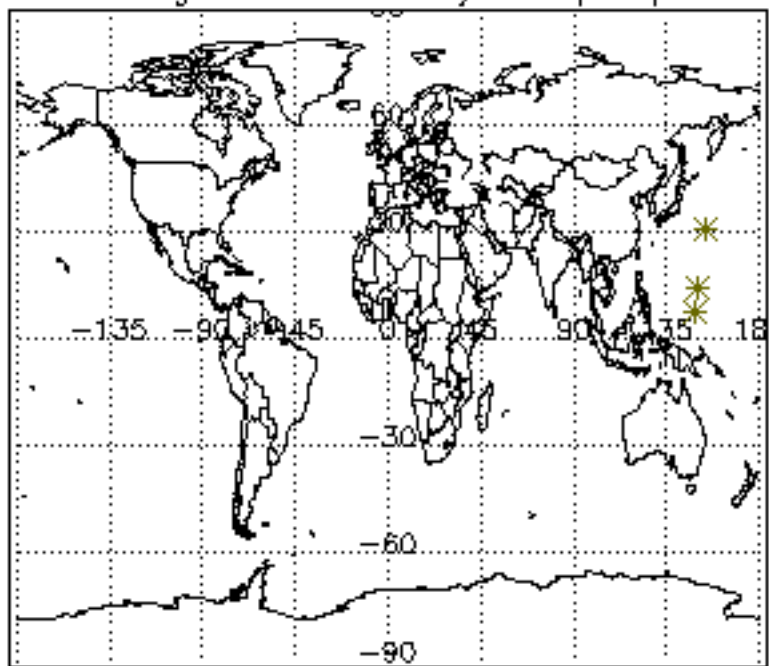
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	NaN	NaN	1461.1	1446.9
St. deviation:	NaN	NaN	5.2415	5.8829
Maximum:	NaN	NaN	1488.0	1477.0
Minimum:	NaN	NaN	1448.0	1437.0
Number of data:	NaN	NaN	3350.0	3350.0

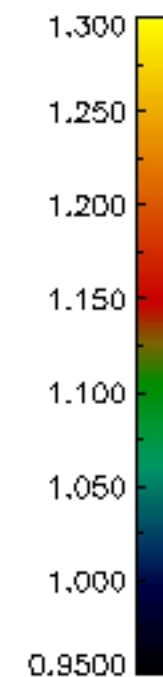
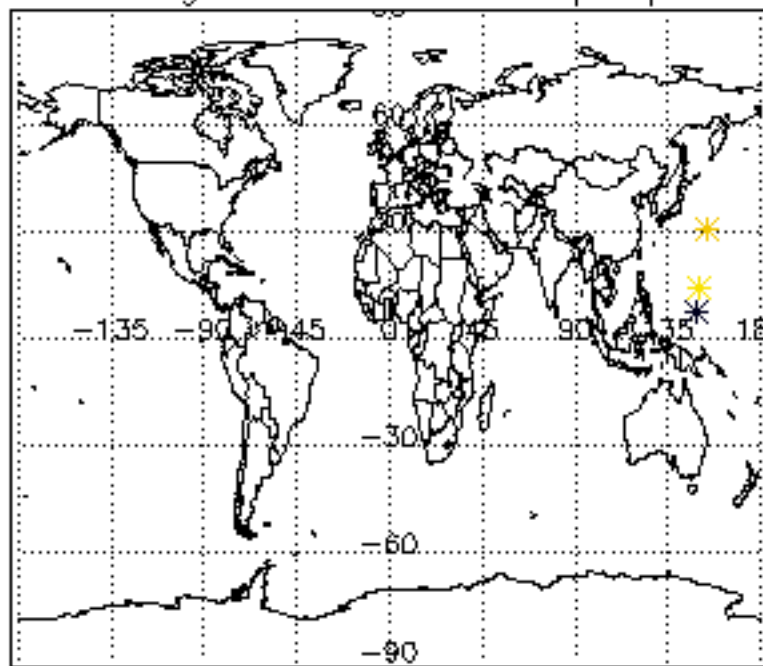




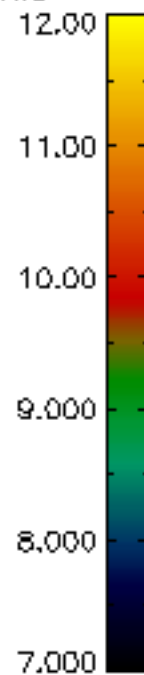
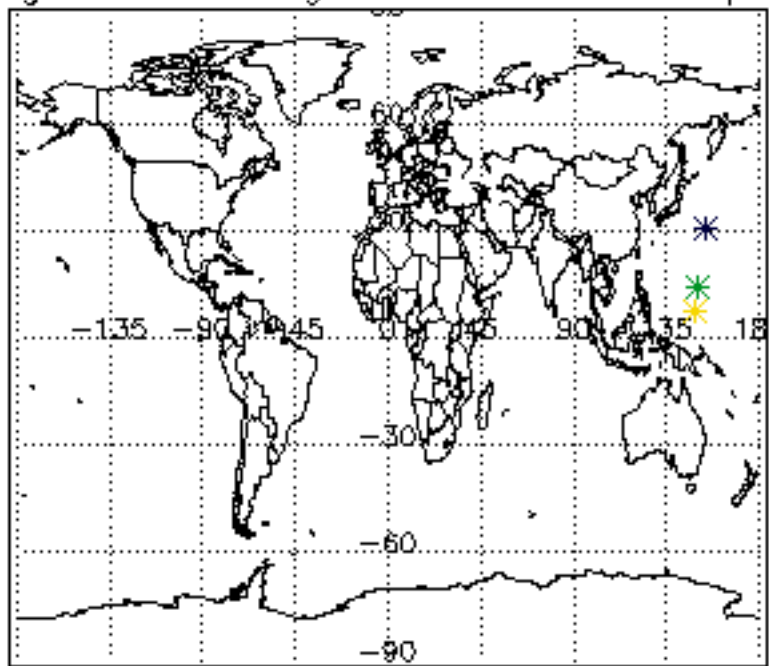
Percentage of cosmic ray hits per profile



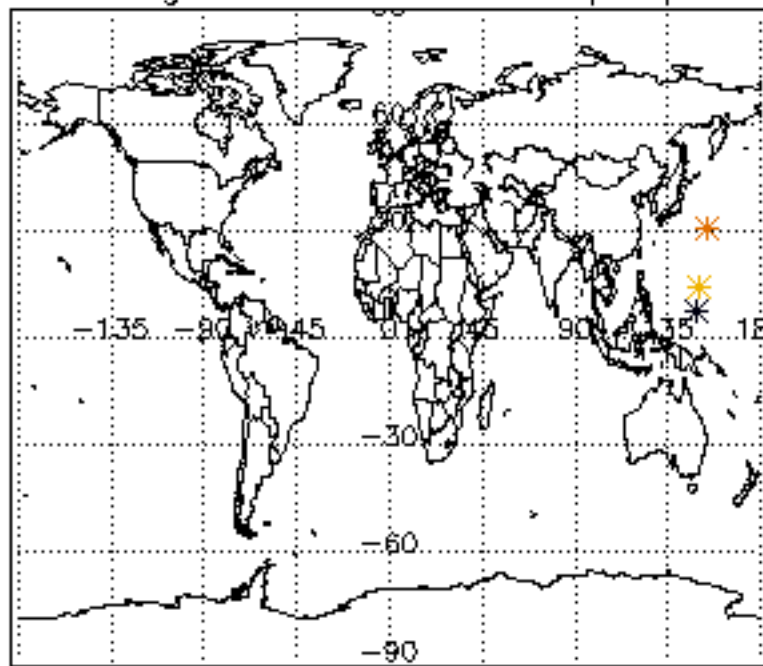
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

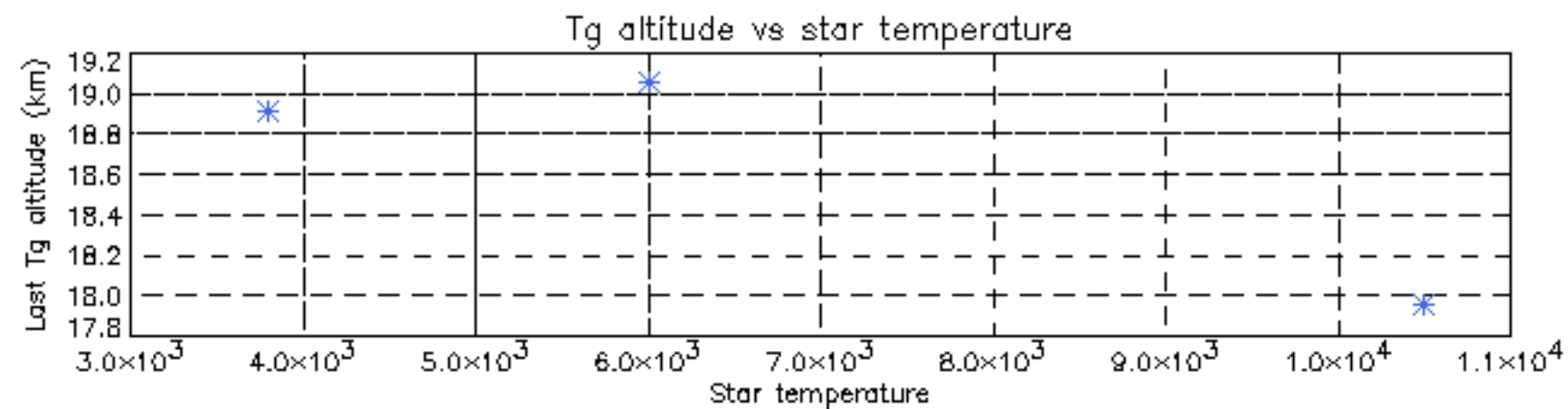
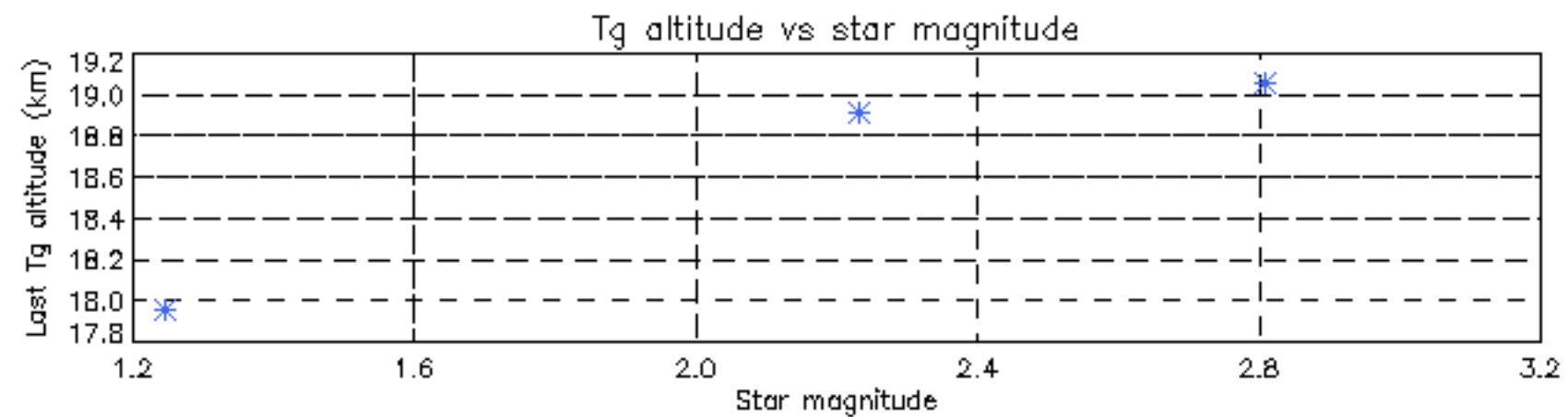
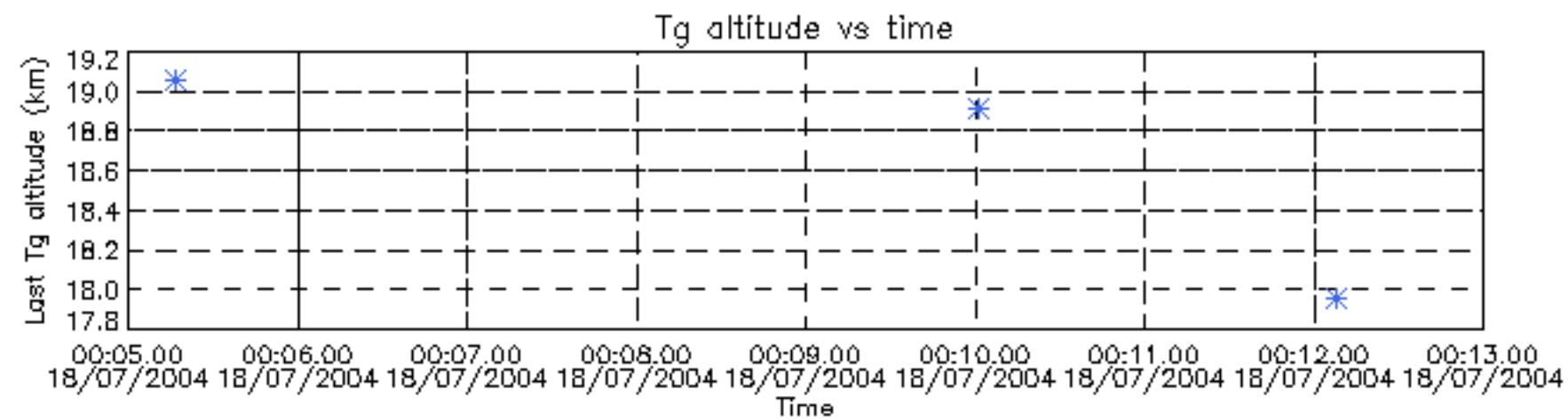


Percentage of saturation errors per profile





Tangent altitude at which the star is lost



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2; -494.6; 01-JUL-2004 01:29:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12209
3; -163.9; 01-JUL-2004 01:35:23; Dark ; 77.5; 52; 16Bet Cet ; 2.04; 4500;occ; 155; 0;12209
4; 36.9; 01-JUL-2004 01:38:44; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;12210
5; 314.6; 01-JUL-2004 01:43:22; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12210
6; 489.7; 01-JUL-2004 01:46:17; Dark ; 58.5; 63; Bet Gru ; 2.15; 2800;occ; 117; 0;12210
7; 585.8; 01-JUL-2004 01:47:53; Dark ; 86.5; 18; 24Alp PsA ; 1.17; 9700;occ; 173; 0;12210
8; 746.2; 01-JUL-2004 01:50:33; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;12210
9; 975.1; 01-JUL-2004 01:54:22; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;12210
10; 1061.4; 01-JUL-2004 01:55:49; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;12210
11; 1169.8; 01-JUL-2004 01:57:37; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;12210
12; 1269.3; 01-JUL-2004 01:59:17; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;12210
13; 1354.2; 01-JUL-2004 02:00:41; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110; 0;12210
14; 1480.2; 01-JUL-2004 02:02:47; Bright; 45.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 90; 0;12210
15; 1641.2; 01-JUL-2004 02:05:28; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;12210
16; 1744.8; 01-JUL-2004 02:07:12; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;12210
17; 1877.5; 01-JUL-2004 02:09:25; Bright; 40.5; 120; 1Del Oph ; 2.73; 3200;occ; 81; 0;12210
18; 1979.7; 01-JUL-2004 02:11:07; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;12210
19; 2119.5; 01-JUL-2004 02:13:27; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;12210
20; 2281.8; 01-JUL-2004 02:16:09; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;12210
21; 2445.7; 01-JUL-2004 02:18:53; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;12210
22; 2647.9; 01-JUL-2004 02:22:15; Bright; 48.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 97; 0;12210
23; 2806.6; 01-JUL-2004 02:24:54; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;12210
24; 2948.0; 01-JUL-2004 02:27:15; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;12210
25; 3190.4; 01-JUL-2004 02:31:18; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;12210
26; 3339.1; 01-JUL-2004 02:33:46; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;12210
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4; -1871.6; 01-JUL-2004 02:47:31; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;12210
5; -1770.5; 01-JUL-2004 02:49:13; Bright; 52.5; 73; 57Gam1And ; 2.26; 13100;occ; 105; 0;12210
6; -1616.9; 01-JUL-2004 02:51:46; Dark ; 68.5; 53; 43Bet And ; 2.05; 3300;occ; 137; 0;12210
7; -1355.5; 01-JUL-2004 02:56:08; Dark ; 66.5; 50; 13Alp Ari ; 2.01; 4250;occ; 133; 0;12210
8; -1058.3; 01-JUL-2004 03:01:05; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;12210
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11; -330.3; 01-JUL-2004 03:13:13; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;12210
12; -162.7; 01-JUL-2004 03:16:00; Dark ; 90.5; 52; 16Bet Cet ; 2.04; 4500;occ; 181; 0;12210
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14; 314.9; 01-JUL-2004 03:23:58; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12211
15; 490.7; 01-JUL-2004 03:26:54; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;12211
16; 587.9; 01-JUL-2004 03:28:31; Dark ; 82.5; 18; 24Alp PsA ; 1.17; 9700;occ; 165; 0;12211
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19; 1062.4; 01-JUL-2004 03:36:25; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;12211
20; 1170.6; 01-JUL-2004 03:38:14; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;12211
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22; 1355.5; 01-JUL-2004 03:41:19; Dark ; 46.0; 116; 19Del Sgr ; 2.70; 4100;occ; 92; 0;12211
23; 1480.2; 01-JUL-2004 03:43:23; Bright; 46.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 92; 0;12211
24; 1642.0; 01-JUL-2004 03:46:05; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;12211
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26; 1877.8; 01-JUL-2004 03:50:01; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;12211
27; 1979.9; 01-JUL-2004 03:51:43; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;12211
28; 2120.0; 01-JUL-2004 03:54:03; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;12211
29; 2282.2; 01-JUL-2004 03:56:45; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;12211
30; 2446.6; 01-JUL-2004 03:59:30; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;12211
31; 2647.3; 01-JUL-2004 04:02:50; Bright; 48.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 97; 0;12211
32; 2806.7; 01-JUL-2004 04:05:30; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;12211
33; 2950.6; 01-JUL-2004 04:07:54; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;12211
34; 3190.9; 01-JUL-2004 04:11:54; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;12211
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2; -2161.9; 01-JUL-2004 04:23:17; Bright; 62.0; 110; 37Del Cas ; 2.68; 8900;occ; 124; 0;12211
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3;-1975.4; 01-JUL-2004 04:26:24; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;12211
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5;-1770.6; 01-JUL-2004 04:29:48; Bright; 50.5; 73; 57Gam1And ; 2.26; 13100;occ; 101; 0;12211
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12; -160.5; 01-JUL-2004 04:56:39; Dark ; 81.0; 52; 16Bet Cet ; 2.04; 4500;occ; 162; 0;12211
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15; 491.7; 01-JUL-2004 05:07:31; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;12212
16; 589.3; 01-JUL-2004 05:09:08; Dark ; 85.5; 18; 24Alp PsA ; 1.17; 9700;occ; 171; 0;12212
17; 747.1; 01-JUL-2004 05:11:46; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;12212
18; 975.6; 01-JUL-2004 05:15:35; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;12212
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23;-1453.2; 02-JUL-2004 17:28:17; Dark ; 43.5; 146; 25Eta Tau ; 2.87; 15200;occ; 87; 0;12233
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 34; 318.6; 02-JUL-2004 19:38:25; Dark ; 41.5; 135; Bet Hyi ; 2.82; 5800;occ; 83; 0;12235  
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37;	1486.7;	03-JUL-2004	09:22:40;	Bright;	44.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	88;	0;	12243	
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2;	-4055.1;	05-JUL-2004	10:08:17;	Bright;	38.0;	126;	60Bet	Oph	;	2.77;	4250;	occ;	76;	0;	12272	
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4;	-3741.8;	05-JUL-2004	10:13:30;	Bright;	36.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	72;	0;	12272	
5;	-3582.4;	05-JUL-2004	10:16:09;	Bright;	38.0;	133;	40Zet	Her	;	2.81;	6000;	occ;	76;	0;	12272	
6;	-3414.9;	05-JUL-2004	10:18:57;	Bright;	46.5;	5;	3Alp	Lyr	;	0.03;	11000;	occ;	93;	0;	12272	
7;	-3236.9;	05-JUL-2004	10:21:55;	Bright;	38.0;	130;	23Bet	Dra	;	2.80;	5800;	occ;	76;	0;	12272	
8;	-3081.1;	05-JUL-2004	10:24:31;	Bright;	37.5;	119;	14Eta	Dra	;	2.73;	4700;	occ;	75;	0;	12272	
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11;	-2738.8;	05-JUL-2004	10:30:13;	Bright;	44.0;	89;	5Alp	Cep	;	2.45;	8000;	occ;	88;	0;	12272	
12;	-2592.7;	05-JUL-2004	10:32:39;	Bright;	39.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	78;	0;	12272	
13;	-2287.8;	05-JUL-2004	10:37:44;	Bright;	48.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	97;	0;	12272	
14;	-2181.1;	05-JUL-2004	10:39:31;	Bright;	43.5;	110;	37Del	Cas	;	2.68;	8900;	occ;	87;	0;	12272	
15;	-1979.3;	05-JUL-2004	10:42:52;	Bright;	39.0;	160;	23Gam	Per	;	2.93;	4700;	occ;	78;	0;	12272	
16;	-1870.4;	05-JUL-2004	10:44:41;	Bright;	37.5;	175;	39Del	Per	;	3.01;	19400;	occ;	75;	0;	12272	
17;	-1775.6;	05-JUL-2004	10:46:16;	Bright;	55.5;	73;	57Gam1	And	;	2.26;	13100;	occ;	111;	0;	12272	
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21;	-816.7;	05-JUL-2004	11:02:15;	Dark	;	46.5;	165;	34Gam	Eri	;	2.95;	3200;	occ;	93;	0;	12272
22;	-479.7;	05-JUL-2004	11:07:52;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	12272
23;	-301.9;	05-JUL-2004	11:10:50;	Dark	;	43.0;	157;	The1Eri		;	2.91;	9300;	occ;	86;	0;	12272
24;	-38.3;	05-JUL-2004	11:15:13;	Dark	;	96.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	192;	0;	12272
25;	167.7;	05-JUL-2004	11:18:39;	Dark	;	62.5;	84;	Alp	Phe	;	2.40;	4500;	occ;	125;	0;	12273
26;	330.0;	05-JUL-2004	11:21:22;	Dark	;	39.5;	135;	Bet	Hyi	;	2.82;	5800;	occ;	79;	0;	12273
27;	550.2;	05-JUL-2004	11:25:02;	Dark	;	57.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	114;	0;	12273
28;	693.5;	05-JUL-2004	11:27:25;	Dark	;	87.0;	18;	24Alp	PsA	;	1.17;	9700;	occ;	174;	0;	12273
29;	843.4;	05-JUL-2004	11:29:55;	Dark	;	58.5;	172;	Gam	Gru	;	3.00;	13100;	occ;	117;	0;	12273
30;	984.1;	05-JUL-2004	11:32:16;	Dark	;	41.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	82;	0;	12273
31;	1073.9;	05-JUL-2004	11:33:46;	Dark	;	39.0;	147;	Alp	Ara	;	2.88;	26000;	occ;	78;	0;	12273
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4;	-3916.4;	05-JUL-2004	11:51:11;	Bright;	38.5;	59;	55Alp	Oph	;	2.08;	8900;	occ;	77;	0;	12273	
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8;	-3237.0;	05-JUL-2004	12:02:31;	Bright;	38.0;	130;	23Bet	Dra	;	2.80;	5800;	occ;	76;	0;	12273	
9;	-3081.4;	05-JUL-2004	12:05:06;	Bright;	38.5;	119;	14Eta	Dra	;	2.73;	4700;	occ;	77;	0;	12273	
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12;	-2739.1;	05-JUL-2004	12:10:49;	Bright;	45.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	91;	0;	12273	
13;	-2593.1;	05-JUL-2004	12:13:14;	Bright;	38.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	76;	0;	12273	
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17;	-1870.4;	05-JUL-2004	12:25:17;	Bright;	49.0;	175;	39Del	Per	;	3.01;	19400;	occ;	98;	0;	12273	
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21;	-1332.6;	05-JUL-2004	12:34:15;	Dark	;	65.5;	50;	13Alp	Ari	;	2.01;	4250;	occ;	131;	0;	12273
22;	-816.4;	05-JUL-2004	12:42:51;	Dark	;	46.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	92;	0;	12273
23;	-479.4;	05-JUL-2004	12:48:28;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	12273
24;	-301.2;	05-JUL-2004	12:51:26;	Dark	;	41.5;	157;	The1Eri		;	2.91;	9300;	occ;	83;	0;	12273
25;	-35.9;	05-JUL-2004	12:55:52;	Dark	;	83.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	166;	0;	12273
26;	168.8;	05-JUL-2004	12:59:16;	Dark	;	57.5;	84;	Alp	Phe	;	2.40;	4500;	occ;	115;	0;	12274
27;	329.6;	05-JUL-2004	13:01:57;	Dark	;	39.0;	135;	Bet	Hyi	;	2.82;	5800;	occ;	78;	0;	12274
28;	550.9;	05-JUL-2004	13:05:39;	Dark	;	55.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	110;	0;	12274
29;	695.8;	05-JUL-2004	13:08:03;	Dark	;	84.5;	18;	24Alp	PsA	;	1.17;	9700;	occ;	169;	0;	12274
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7;	-1389.1;	22-JUL-2004	03:35:52;	Dark	;	48.0;	146;	25Eta Tau	;	2.87;	15200;occ;	96;	0;	12511
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34; 1072.5; 26-JUL-2004 12:14:01; Dark ; 73.5; 18; 24Alp PsA ; 1.17; 9700;occ; 147; 0;12574
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34; 876.3; 26-JUL-2004 13:51:20; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;12575
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33; 4667.4; 27-JUL-2004 00:58:07; Dark ; 55.5; 146; 25Eta Tau ; 2.87; 15200;occ; 111; 0;12581
34; 4763.3; 27-JUL-2004 00:59:43; Dark ; 54.5; 13; 87Alp Tau ; 0.87; 3800;occ; 109; 0;12581
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