

GOMOS Daily Report 01-JUL-2004

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

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

[2.1 Level 0 products arrived in PCF during actual month \(see template here\)](#)

[2.2 Level 1 products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Statistics on SATU Noise Equivalent Angle](#)

[Level 2 products](#)

1. General Info

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	03JUL2004 03:56:43
Data source version	GOMOS/4.02
Start time of products	01-JUL-2004 (01JUL2004 00:00:00)
Stop time of products	02-JUL-2004 (02JUL2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	0

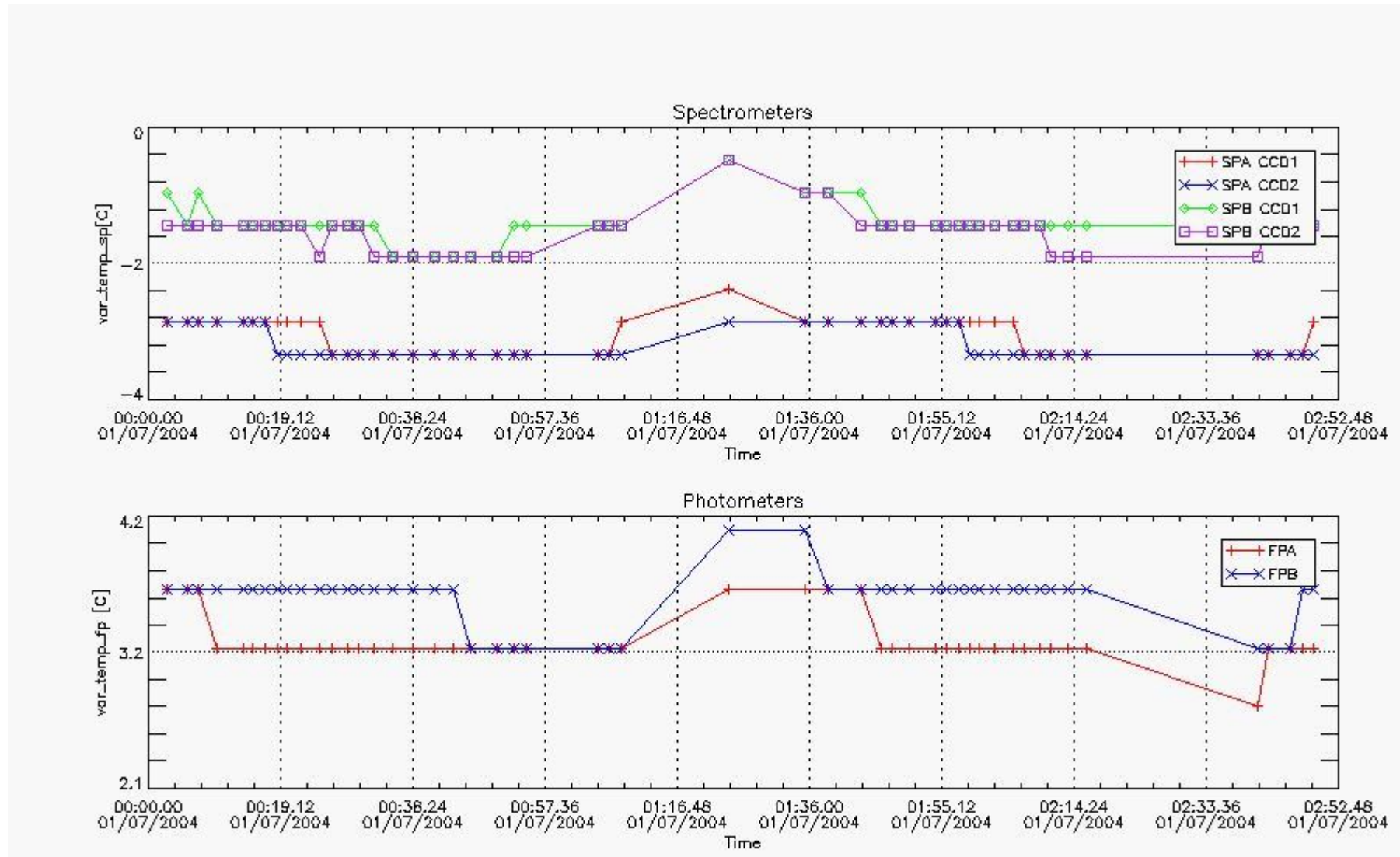
2. Summary of products arrived in PCF

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

2.2 Summary of processed GOM_TRA_1P products.

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20040701_000244_000000422028_00131_12209_0002.N1	01-JUL-2004 00:02:44	Dark	41.500	135	Bet Hyi	2.8200	5800.0	83	12209	No
GOM_TRA_1PNPDE20040701_000536_000000482028_00131_12209_0003.N1	01-JUL-2004 00:05:36	Dark	47.500	148	Alp Tuc	2.8780	4100.0	95	12209	No
GOM_TRA_1PNPDE20040701_000716_000000932028_00131_12209_0004.N1	01-JUL-2004 00:07:16	Twilight	93.000	18	24Alp PsA	1.1660	9700.0	186	12209	No
GOM_TRA_1PNPDE20040701_000957_000000442028_00131_12209_0005.N1	01-JUL-2004 00:09:57	Twilight	43.500	45	Alp Pav	1.9400	26000.	87	12209	No
GOM_TRA_1PNPDE20040701_001346_000000402028_00131_12209_0006.N1	01-JUL-2004 00:13:46	Bright	40.000	141	Bet Ara	2.8400	4600.0	80	12209	No
GOM_TRA_1PNPDE20040701_001513_000000402028_00131_12209_0007.N1	01-JUL-2004 00:15:13	Bright	40.000	147	Alp Ara	2.8770	26000.	80	12209	No
GOM_TRA_1PNPDE20040701_001702_000000422028_00131_12209_0008.N1	01-JUL-2004 00:17:02	Bright	42.000	40	The Sco	1.8590	7100.0	84	12209	No
GOM_TRA_1PNPDE20040701_001839_000000452028_00131_12209_0009.N1	01-JUL-2004 00:18:39	Bright	45.000	25	35Lam Sco	1.6200	28000.	90	12209	No
GOM_TRA_1PNPDE20040701_002006_000000472028_00131_12209_0010.N1	01-JUL-2004 00:20:06	Bright	46.500	116	19Del Sgr	2.7000	4100.0	93	12209	No
GOM_TRA_1PNPDE20040701_002211_000000462028_00131_12209_0011.N1	01-JUL-2004 00:22:11	Bright	46.000	155	41Pi Sgr	2.9000	6600.0	92	12209	No
GOM_TRA_1PNPDE20040701_002452_000000392028_00131_12209_0012.N1	01-JUL-2004 00:24:52	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	12209	No
GOM_TRA_1PNPDE20040701_002636_000000412028_00131_12209_0013.N1	01-JUL-2004 00:26:36	Bright	41.000	98	13Zet Oph	2.5710	30000.	82	12209	No
GOM_TRA_1PNPDE20040701_002848_000000402028_00131_12209_0014.N1	01-JUL-2004 00:28:48	Bright	39.500	120	1Del Oph	2.7340	3200.0	79	12209	No
GOM_TRA_1PNPDE20040701_003031_000000392028_00131_12209_0015.N1	01-JUL-2004 00:30:31	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	12209	No
GOM_TRA_1PNPDE20040701_003251_000000392028_00131_12209_0016.N1	01-JUL-2004 00:32:51	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	12209	No
GOM_TRA_1PNPDE20040701_003533_000000382028_00131_12209_0017.N1	01-JUL-2004 00:35:33	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	12209	No
GOM_TRA_1PNPDE20040701_003817_000000392028_00131_12209_0018.N1	01-JUL-2004 00:38:17	Bright	38.500	133	40Zet Her	2.8070	6000.0	77	12209	No
GOM_TRA_1PNPDE20040701_004139_000000412028_00131_12209_0019.N1	01-JUL-2004 00:41:39	Bright	40.500	5	3Alp Lyr	0.033000	11000.	81	12209	No
GOM_TRA_1PNPDE20040701_004418_000000392028_00131_12209_0020.N1	01-JUL-2004 00:44:18	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	12209	No
GOM_TRA_1PNPDE20040701_004642_000000352028_00131_12209_0021.N1	01-JUL-2004 00:46:42	Bright	34.500	119	14Eta Dra	2.7270	4700.0	69	12209	No
GOM_TRA_1PNPDE20040701_005042_000000362028_00131_12209_0022.N1	01-JUL-2004 00:50:42	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	12209	No
GOM_TRA_1PNPDE20040701_005310_000000482028_00131_12209_0023.N1	01-JUL-2004 00:53:10	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	12209	No
GOM_TRA_1PNPDE20040701_005455_000000362028_00131_12209_0024.N1	01-JUL-2004 00:54:55	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	12209	No
GOM_TRA_1PNPDE20040701_010512_000000382028_00131_12209_0025.N1	01-JUL-2004 01:05:12	Bright	38.000	160	23Gam Per	2.9300	4700.0	76	12209	No
GOM_TRA_1PNPDE20040701_010655_000000382028_00131_12209_0026.N1	01-JUL-2004 01:06:55	Twilight	37.500	175	39Del Per	3.0100	19400.	75	12209	No
GOM_TRA_1PNPDE20040701_010836_000000522028_00131_12209_0027.N1	01-JUL-2004 01:08:36	Twilight	51.500	73	57Gam1And	2.2600	13100.	103	12209	No
GOM_TRA_1PNPDE20040701_012411_000000482028_00131_12209_0000.N1	01-JUL-2004 01:24:11	Dark	47.500	165	34Gam Eri	2.9500	3200.0	95	12209	No
GOM_TRA_1PNPDE20040701_013523_000000782028_00131_12209_0001.N1	01-JUL-2004 01:35:23	Dark	77.500	52	16Bet Cet	2.0370	4500.0	155	12209	No
GOM_TRA_1PNPDE20040701_013844_000000532028_00132_12210_0002.N1	01-JUL-2004 01:38:44	Dark	53.000	9	Alp Eri	0.45300	24000.	106	12210	No
GOM_TRA_1PNPDE20040701_014322_000000402028_00132_12210_0003.N1	01-JUL-2004 01:43:22	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	12210	No
GOM_TRA_1PNPDE20040701_014617_000000592028_00132_12210_0004.N1	01-JUL-2004 01:46:17	Dark	58.500	63	Bet Gru	2.1500	2800.0	117	12210	No
GOM_TRA_1PNPDE20040701_014753_000000872028_00132_12210_0005.N1	01-JUL-2004 01:47:53	Twilight	86.500	18	24Alp PsA	1.1660	9700.0	173	12210	No
GOM_TRA_1PNPDE20040701_015033_000000442028_00132_12210_0006.N1	01-JUL-2004 01:50:33	Twilight	44.000	45	Alp Pav	1.9400	26000.	88	12210	No
GOM_TRA_1PNPDE20040701_015422_000000402028_00132_12210_0007.N1	01-JUL-2004 01:54:22	Bright	40.000	141	Bet Ara	2.8400	4600.0	80	12210	No
GOM_TRA_1PNPDE20040701_015549_000000402028_00132_12210_0008.N1	01-JUL-2004 01:55:49	Bright	40.000	147	Alp Ara	2.8770	26000.	80	12210	No
GOM_TRA_1PNPDE20040701_015737_000000462028_00132_12210_0009.N1	01-JUL-2004 01:57:37	Bright	45.500	40	The Sco	1.8590	7100.0	91	12210	No
GOM_TRA_1PNPDE20040701_015917_000000462028_00132_12210_0010.N1	01-JUL-2004 01:59:17	Bright	46.000	25	35Lam Sco	1.6200	28000.	92	12210	No
GOM_TRA_1PNPDE20040701_020041_000000552028_00132_12210_0011.N1	01-JUL-2004 02:00:41	Bright	55.000	116	19Del Sgr	2.7000	4100.0	110	12210	No
GOM_TRA_1PNPDE20040701_020247_000000452028_00132_12210_0012.N1	01-JUL-2004 02:02:47	Bright	45.000	155	41Pi Sgr	2.9000	6600.0	90	12210	No
GOM_TRA_1PNPDE20040701_020528_000000392028_00132_12210_0013.N1	01-JUL-2004 02:05:28	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	12210	No
GOM_TRA_1PNPDE20040701_020712_000000412028_00132_12210_0014.N1	01-JUL-2004 02:07:12	Bright	41.000	98	13Zet Oph	2.5710	30000.	82	12210	No
GOM_TRA_1PNPDE20040701_020925_000000412028_00132_12210_0015.N1	01-JUL-2004 02:09:25	Bright	40.500	120	1Del Oph	2.7340	3200.0	81	12210	No
GOM_TRA_1PNPDE20040701_021107_000000402028_00132_12210_0016.N1	01-JUL-2004 02:11:07	Bright	39.500	126	60Bet Oph	2.7700	4250.0	79	12210	No
GOM_TRA_1PNPDE20040701_021327_000000392028_00132_12210_0017.N1	01-JUL-2004 02:13:27	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	12210	No
GOM_TRA_1PNPDE20040701_021609_000000372028_00132_12210_0018.N1	01-JUL-2004 02:16:09	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	12210	No
GOM_TRA_1PNPDE20040701_024108_000000512028_00132_12210_0000.N1	01-JUL-2004 02:41:08	Bright	50.500	74	11Bet Cas	2.2680	6600.0	101	12210	No
GOM_TRA_1PNPDE20040701_024242_000000422028_00132_12210_0001.N1	01-JUL-2004 02:42:42	Bright	41.500	110	37Del Cas	2.6780	8900.0	83	12210	No
GOM_TRA_1PNPDE20040701_024547_000000472028_00132_12210_0002.N1	01-JUL-2004 02:45:47	Bright	46.500	160	23Gam Per	2.9300	4700.0	93	12210	No
GOM_TRA_1PNPDE20040701_024731_000000362028_00132_12210_0003.N1	01-JUL-2004 02:47:31	Twilight	36.000	175	39Del Per	3.0100	19400.	72	12210	No

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



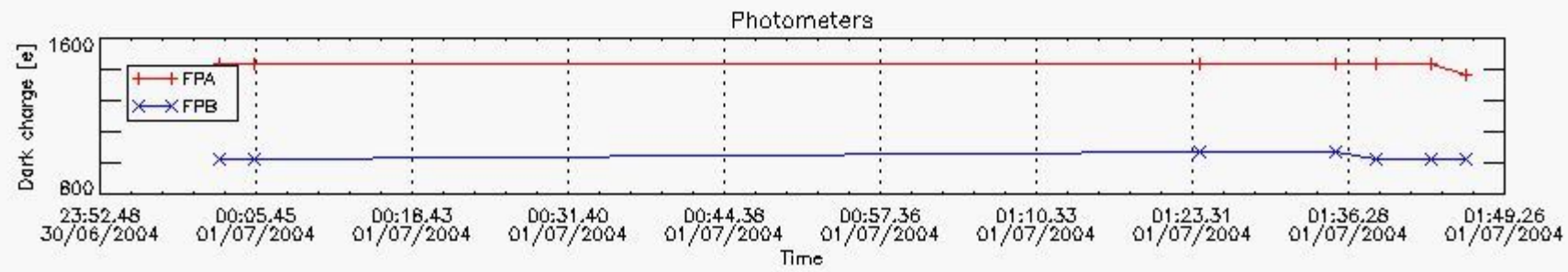
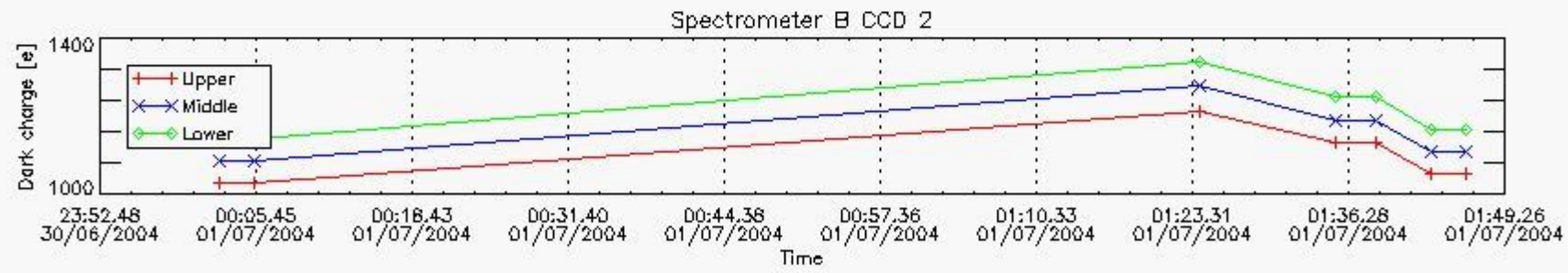
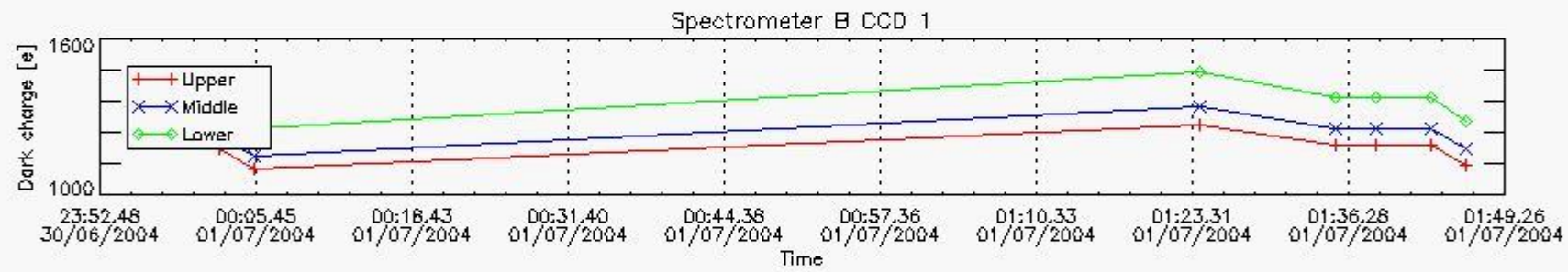
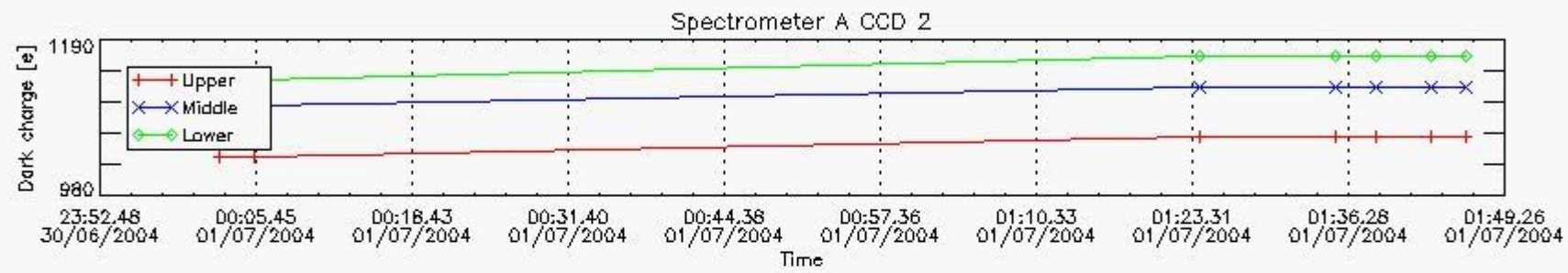
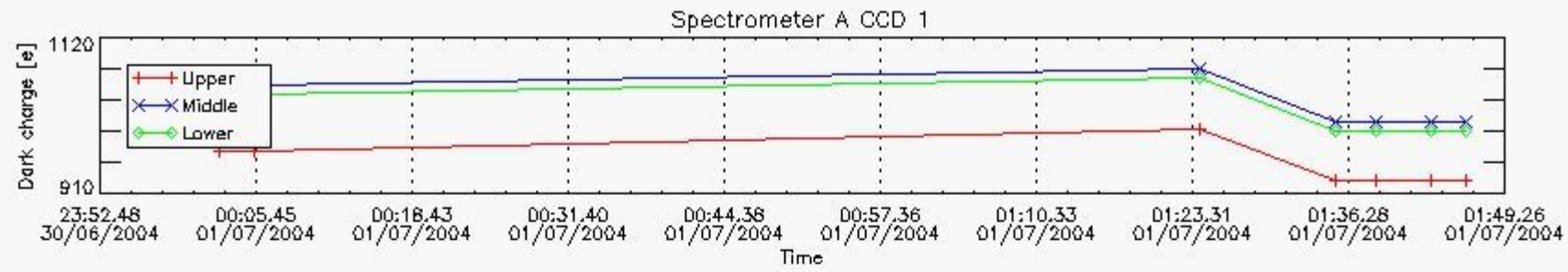
4. Overview of dark signal processing per product

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



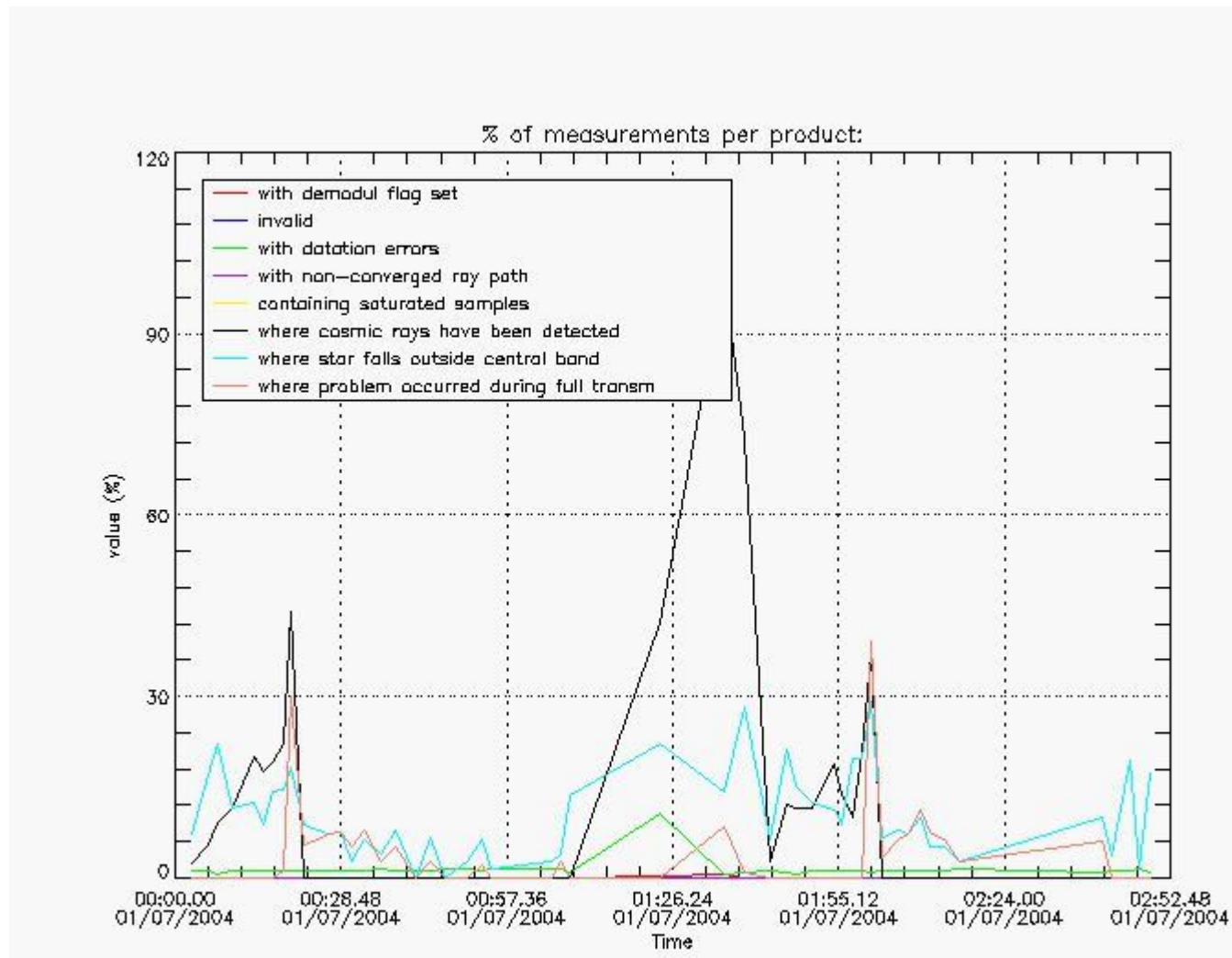
5. Demodulation flag and quality information monitoring

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.

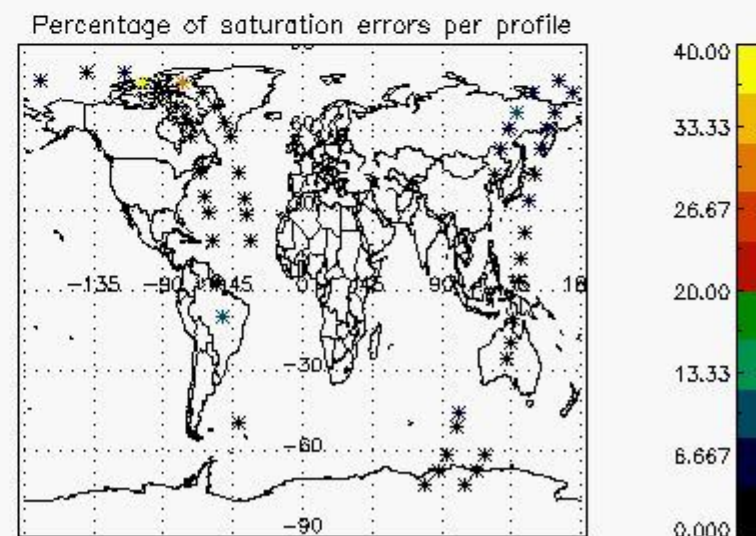
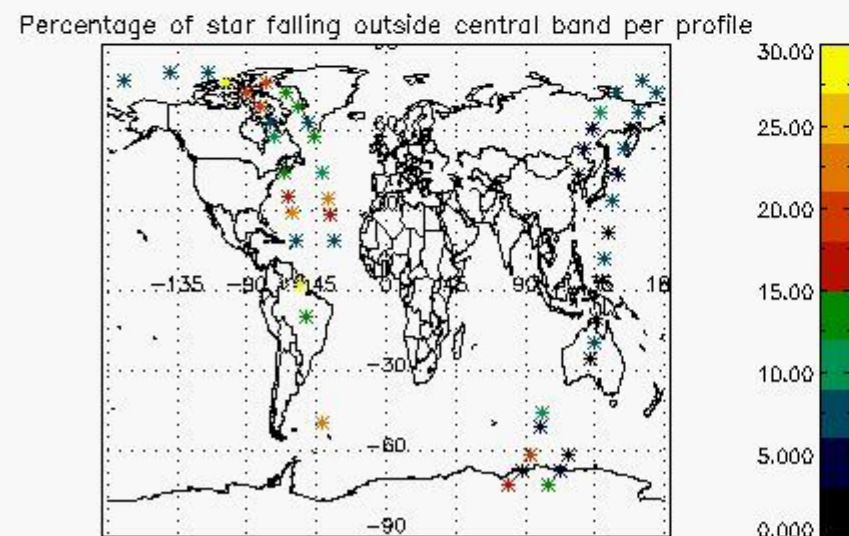
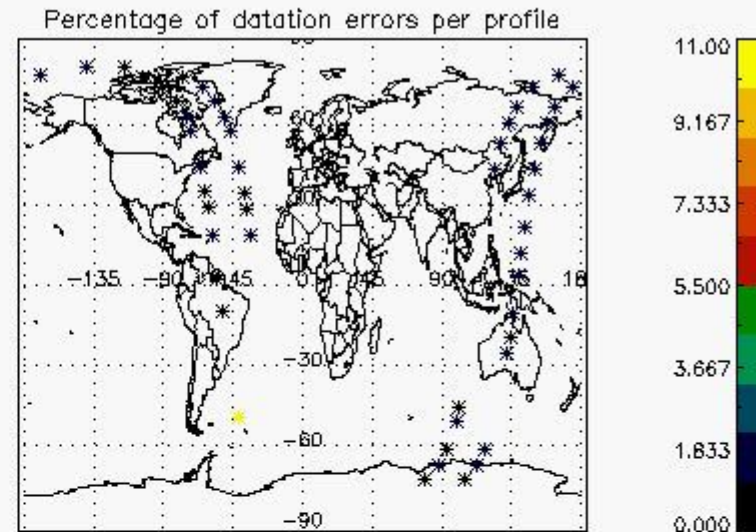
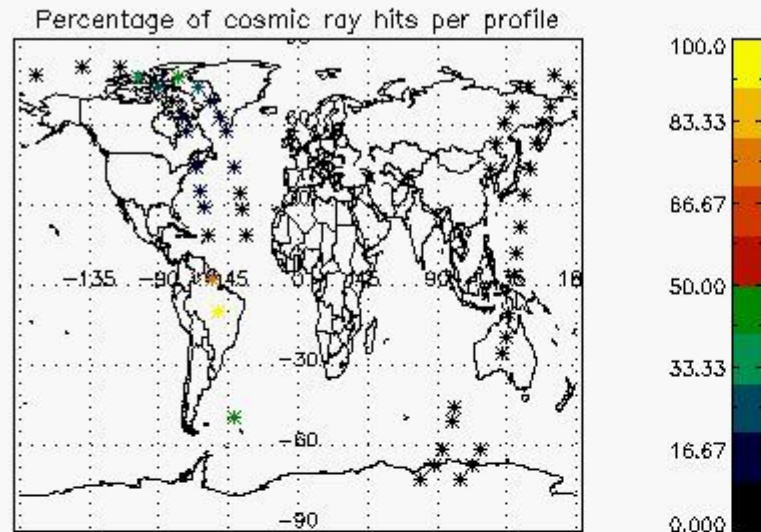
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	4.00000 %
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)



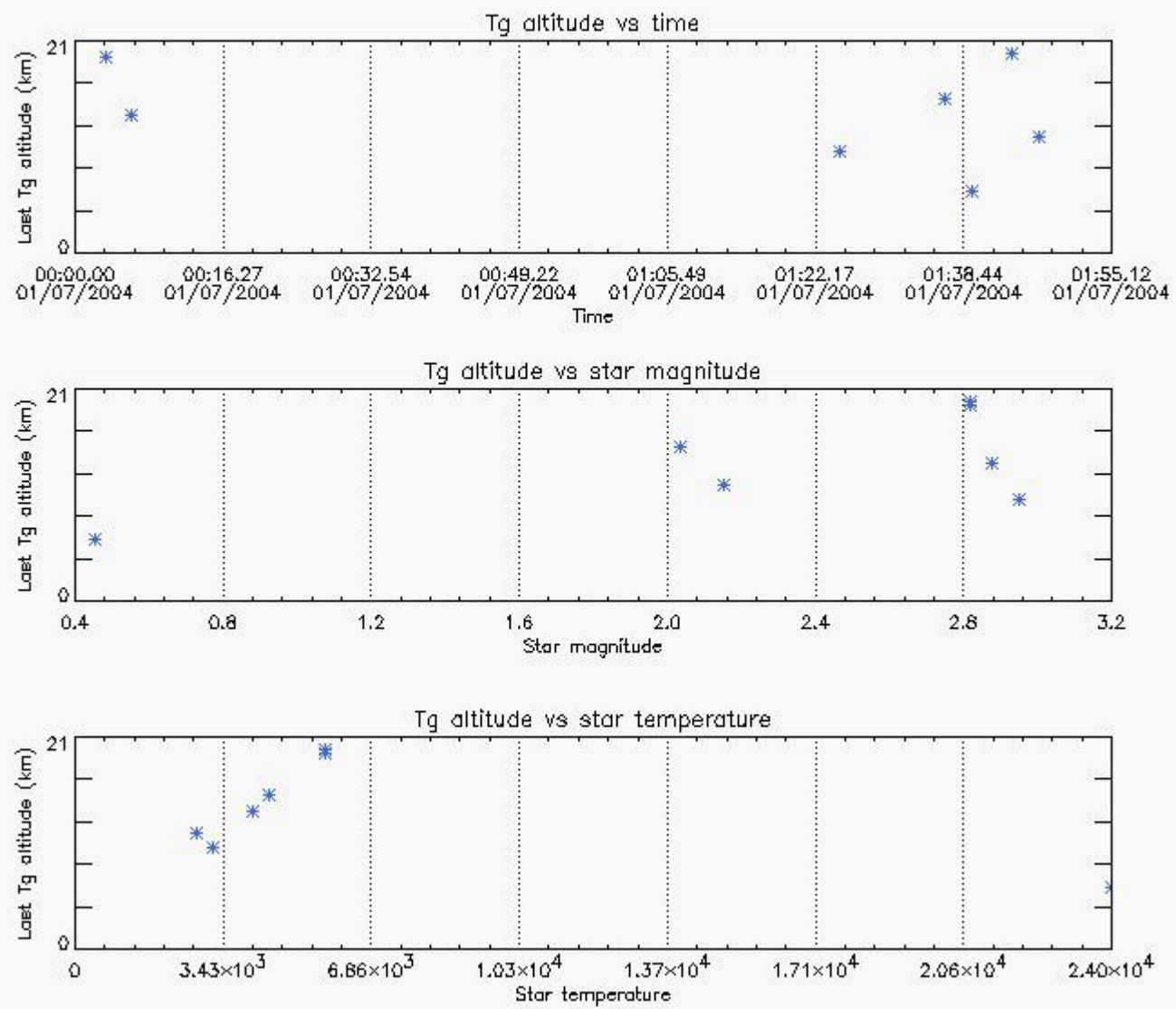
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.661	19.114	17.335
St. deviation:	4.9569	4.6210	5.1998
Maximum:	19.787	26.661	26.692
Minimum:	6.0971	5.6117	11.097
Number of data:	7.0000	35.000	8.0000

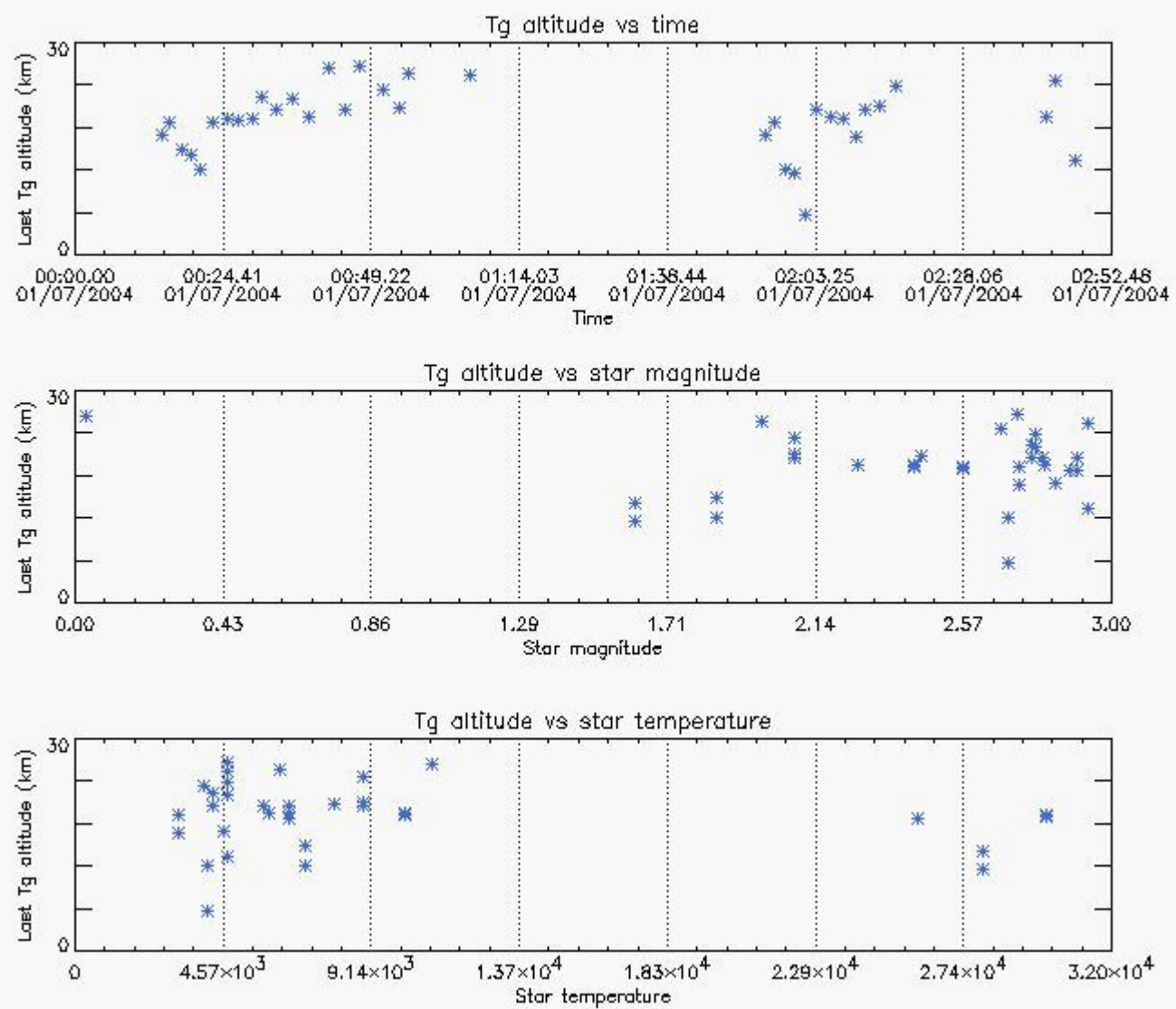
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



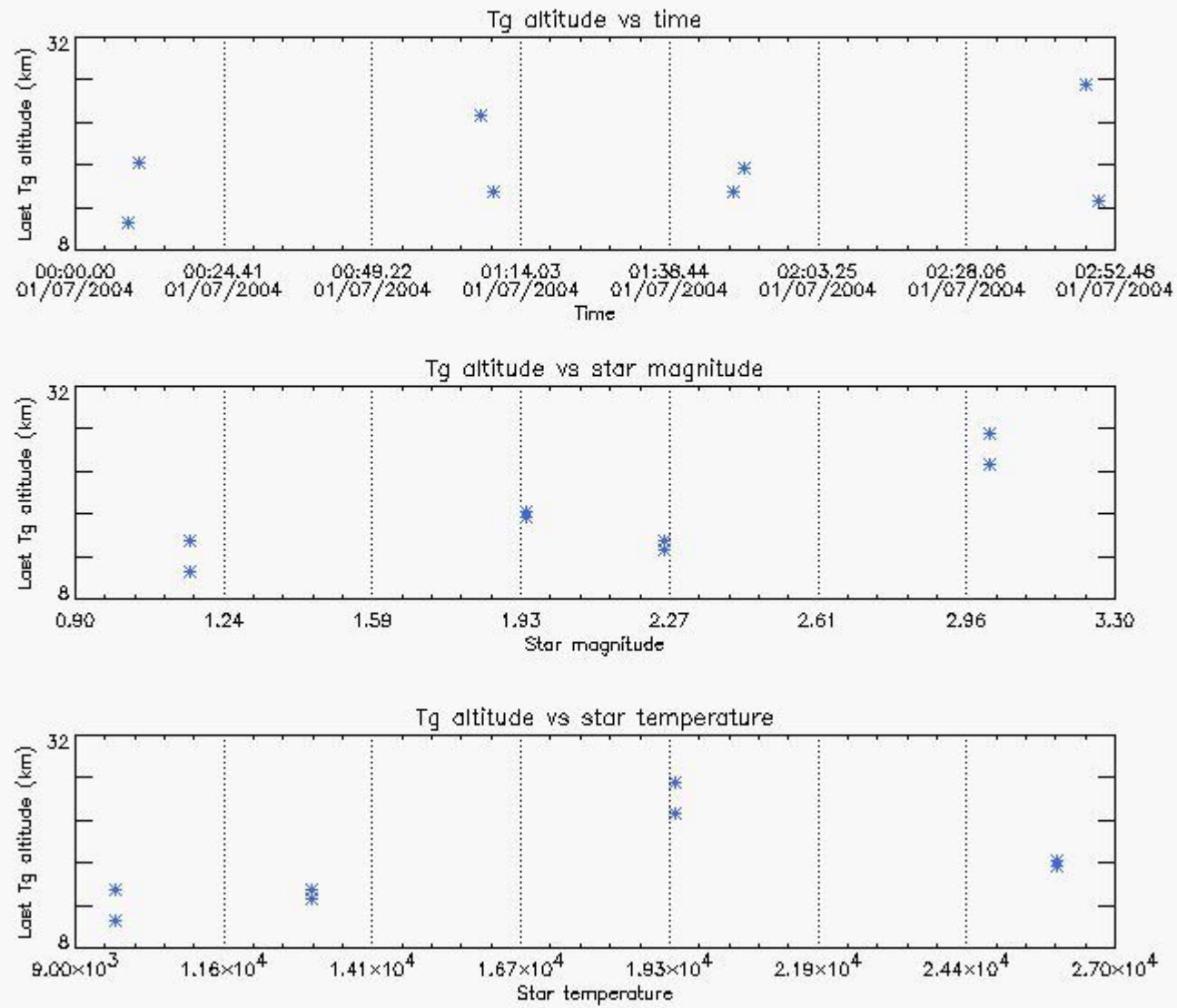
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

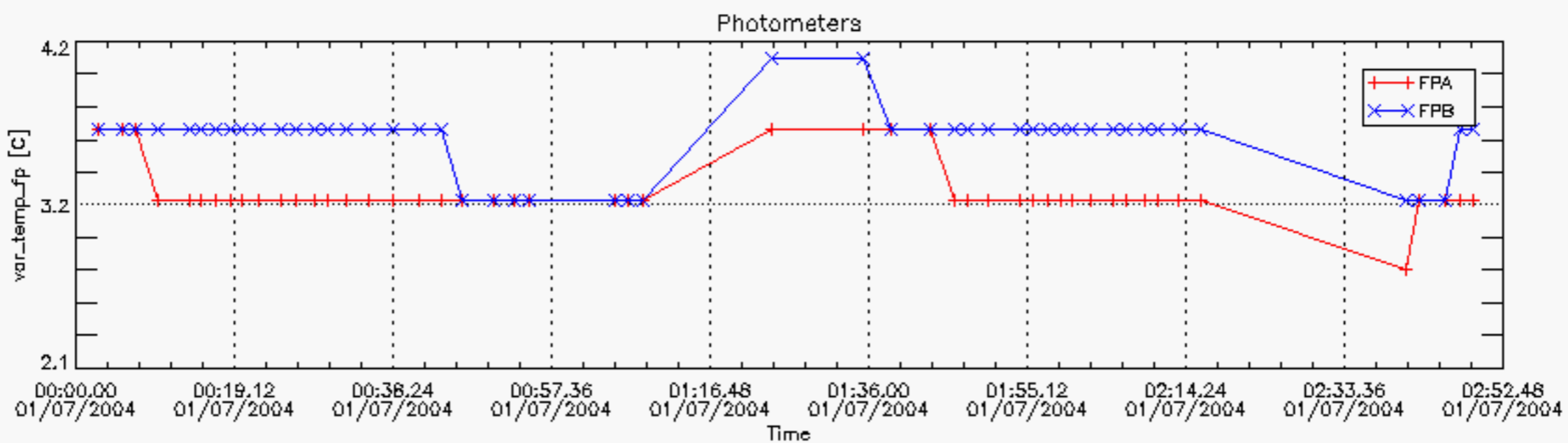
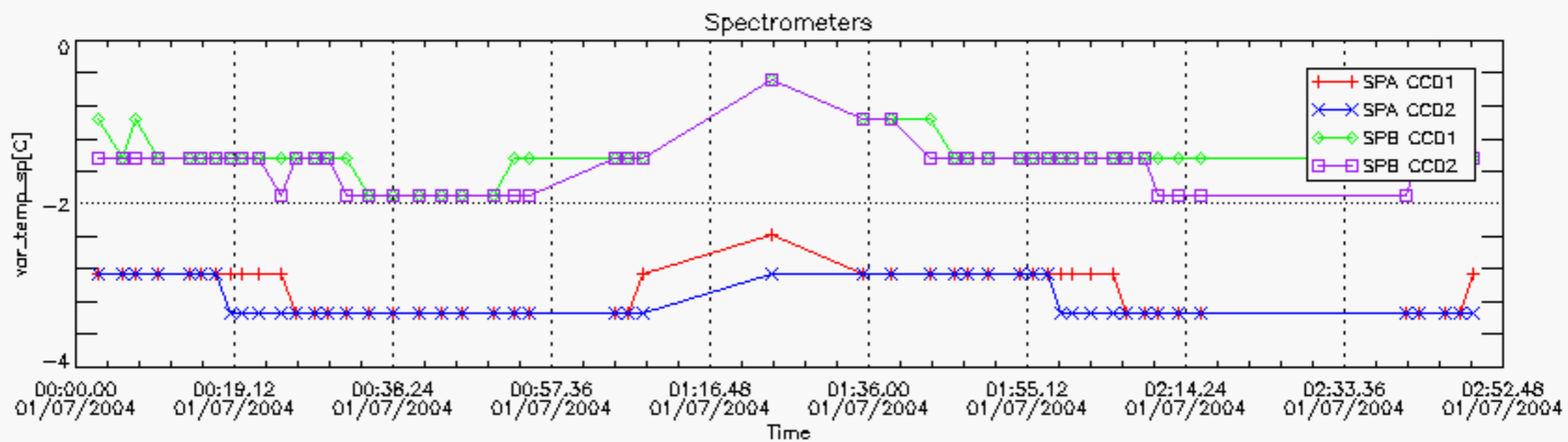
Tangent altitude at which the star is lost

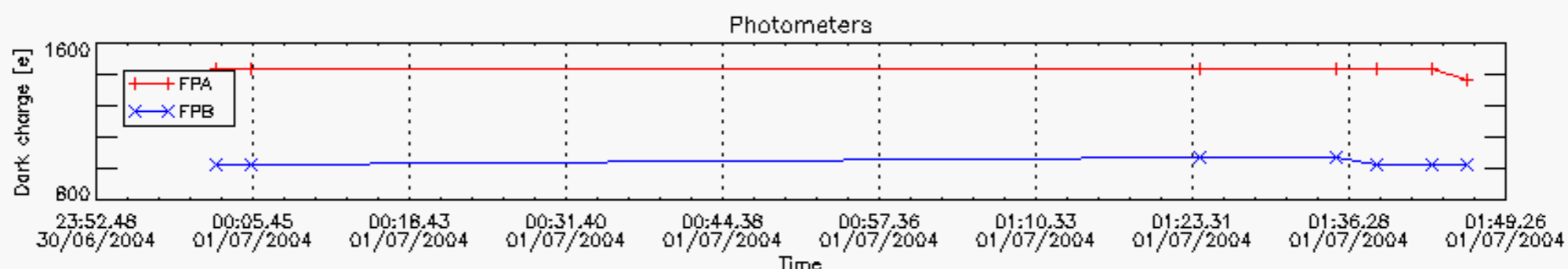
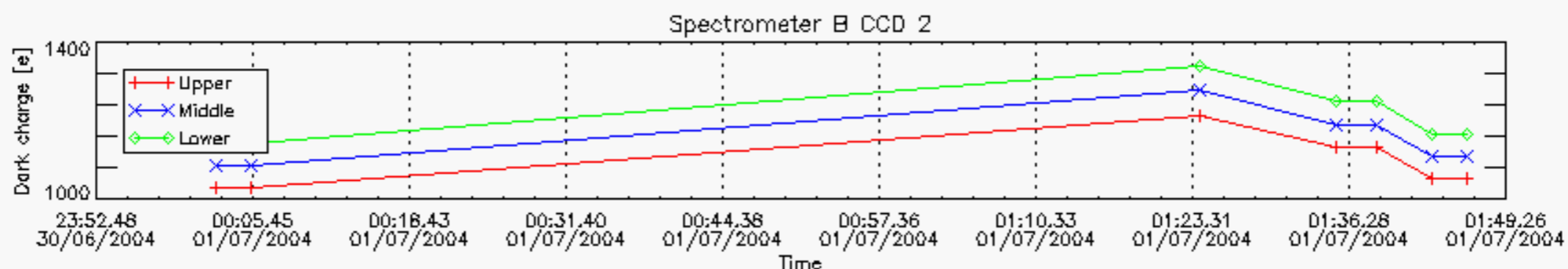
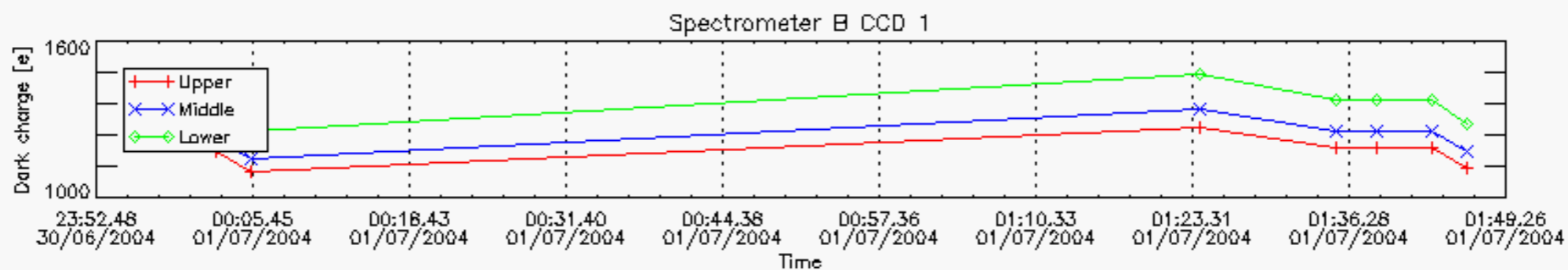
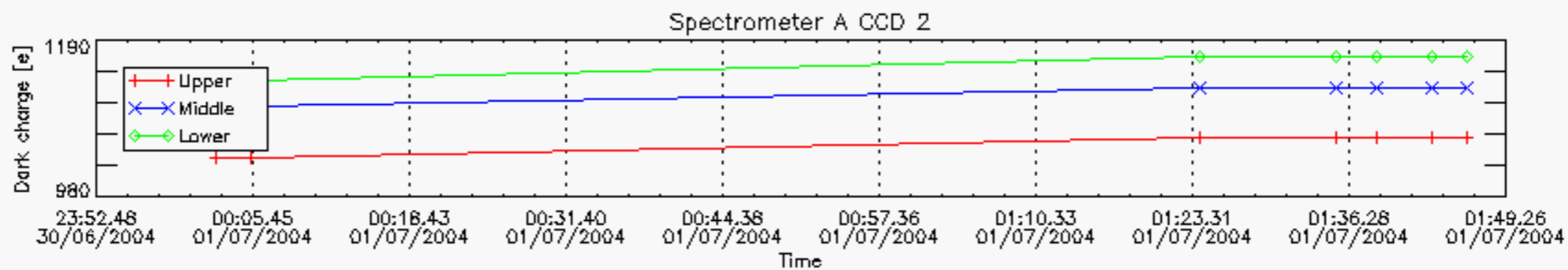
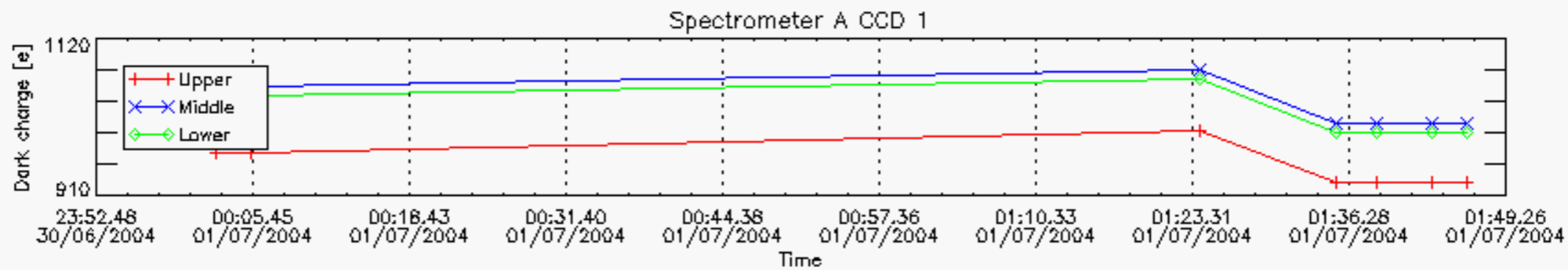


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

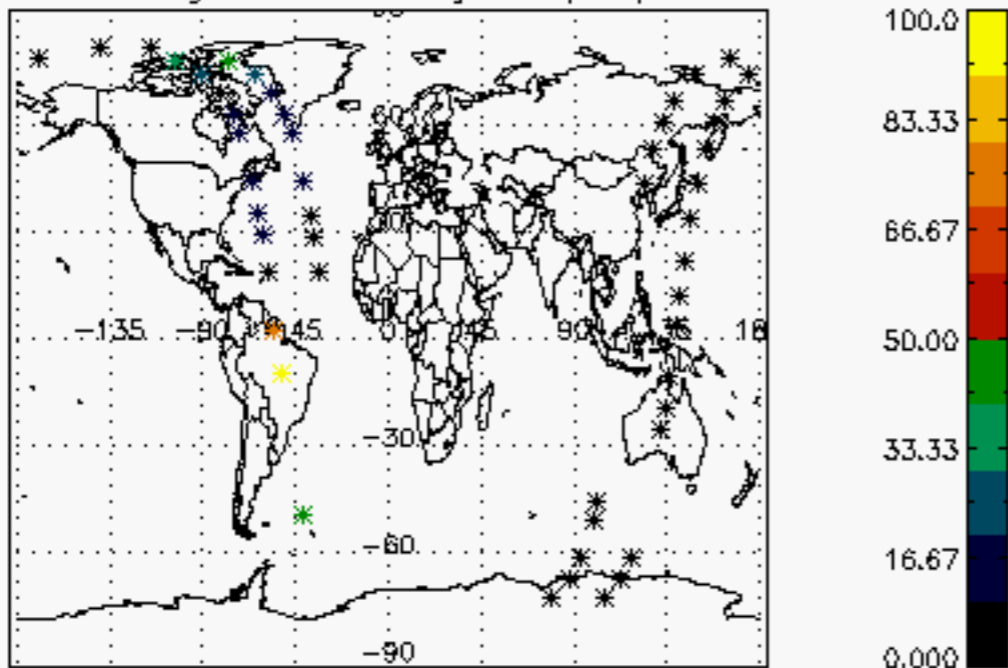
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.7	1447.6	1460.9	1446.4
St. deviation:	3.8362	5.3080	6.8917	7.5577
Maximum:	1494.0	1467.0	1502.0	1487.0
Minimum:	1449.0	1441.0	1434.0	1421.0
Number of data:	9350.0	9350.0	38650.	38650.

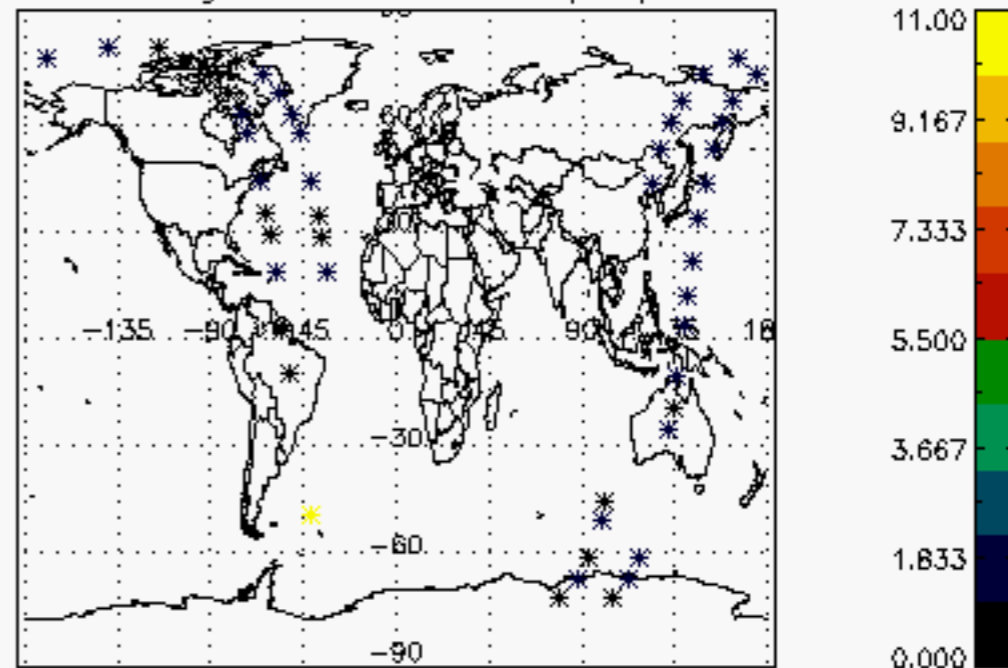




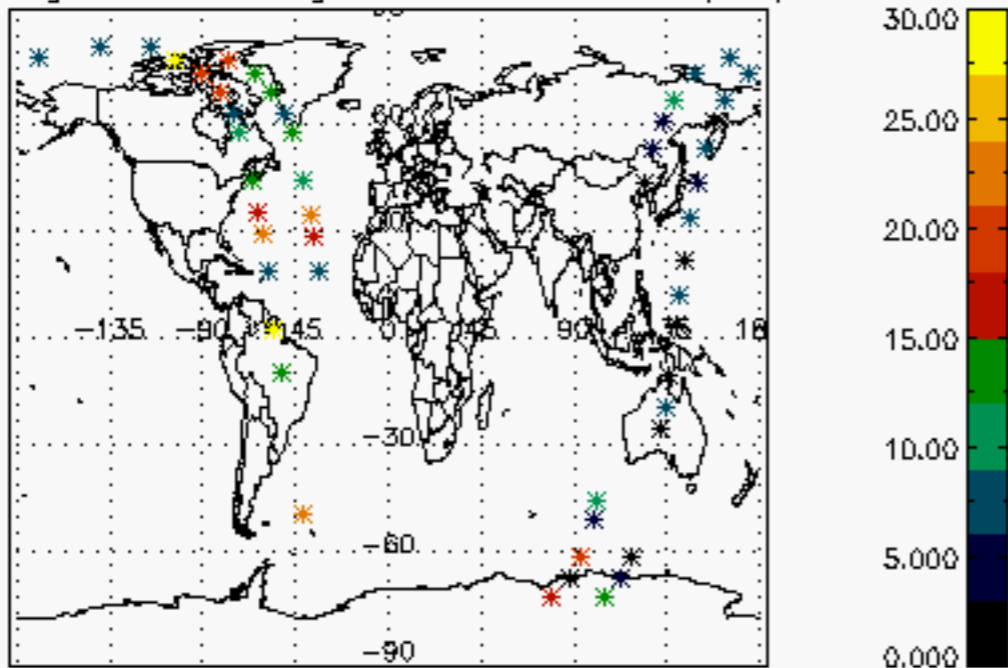
Percentage of cosmic ray hits per profile



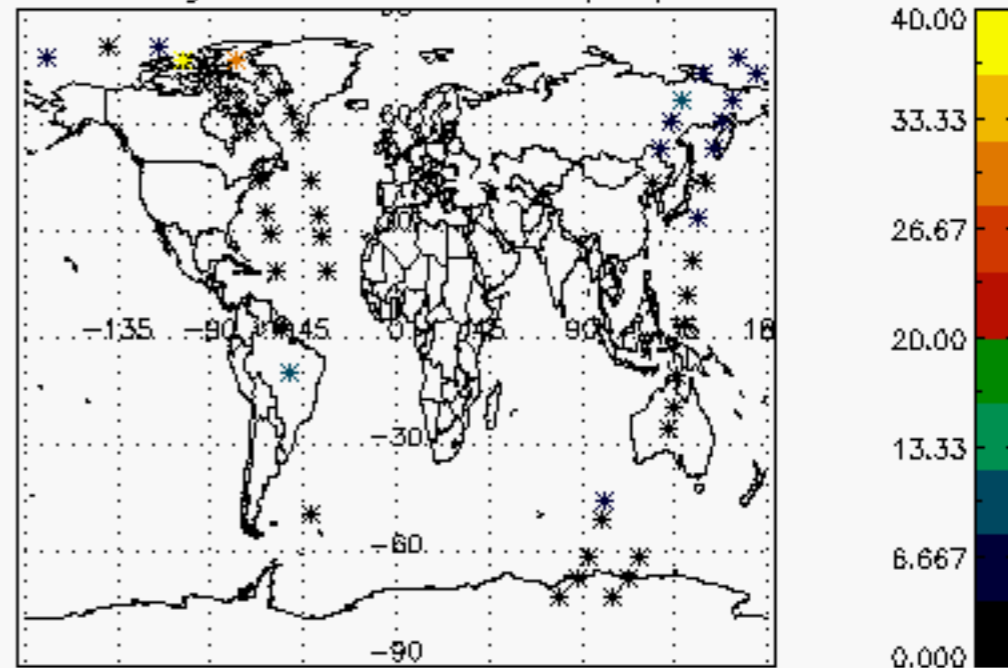
Percentage of datation errors per profile



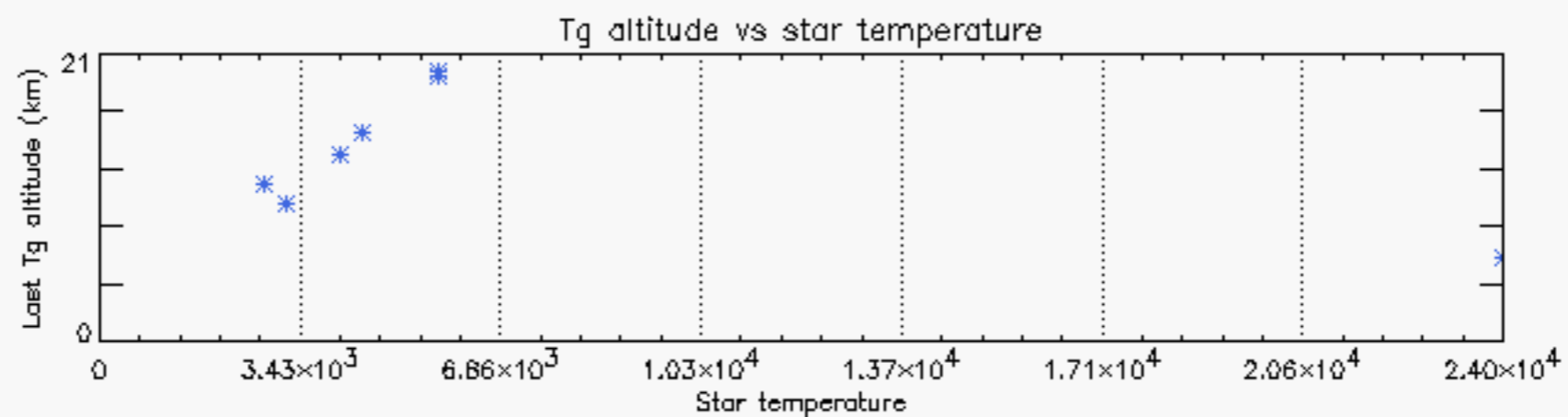
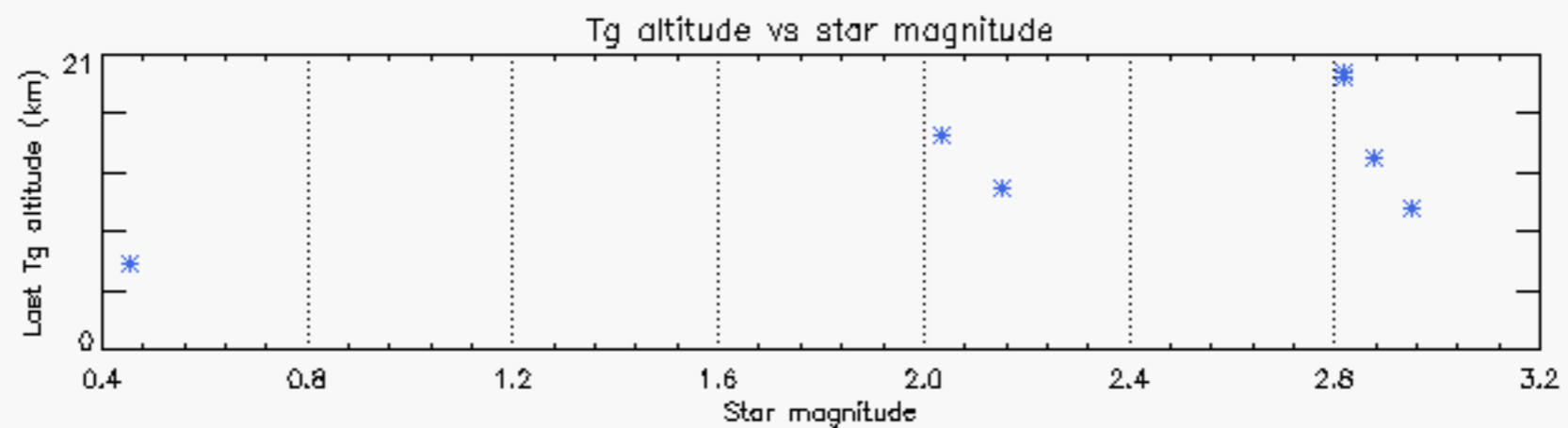
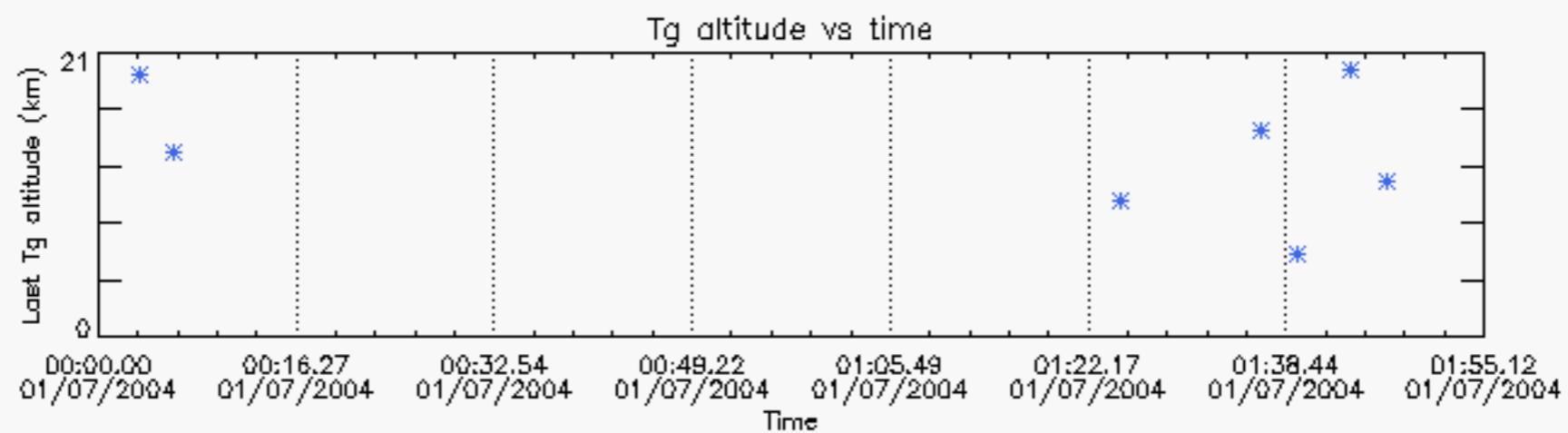
Percentage of star falling outside central band per profile



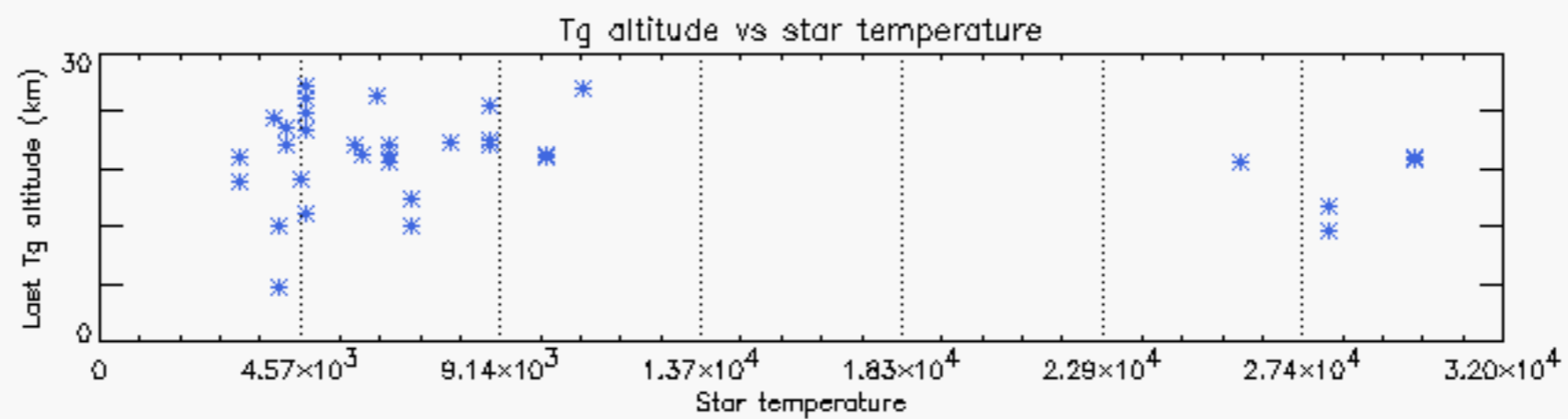
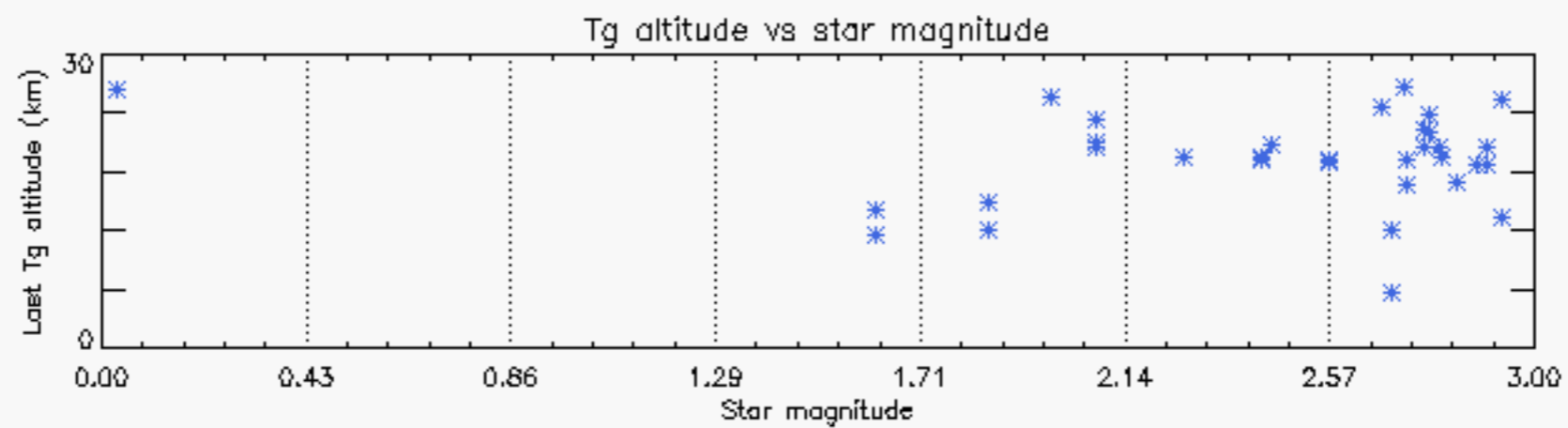
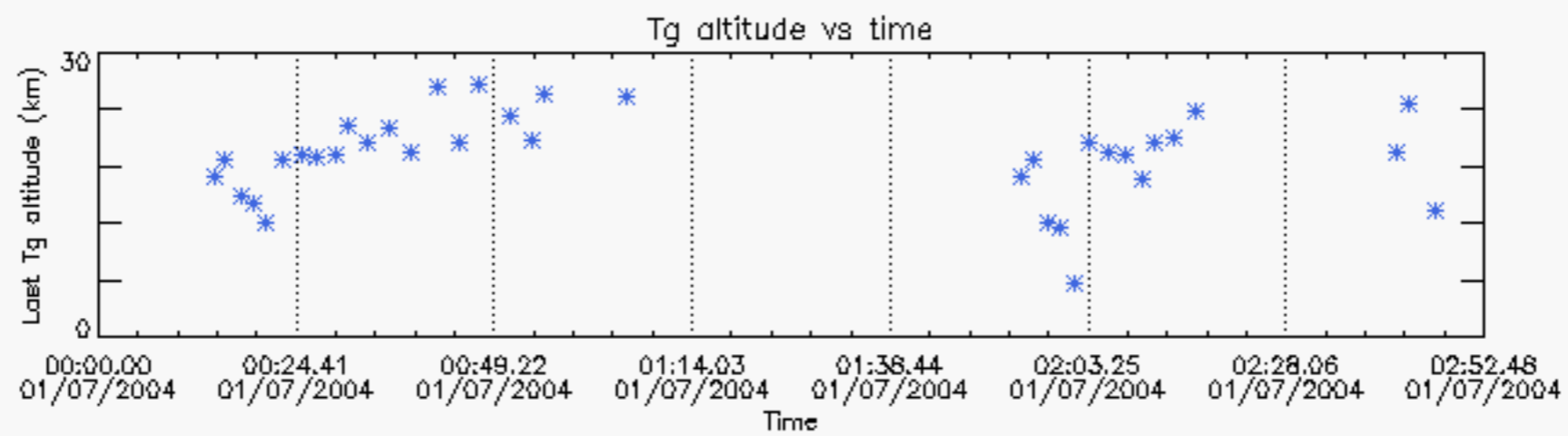
Percentage of saturation errors per profile



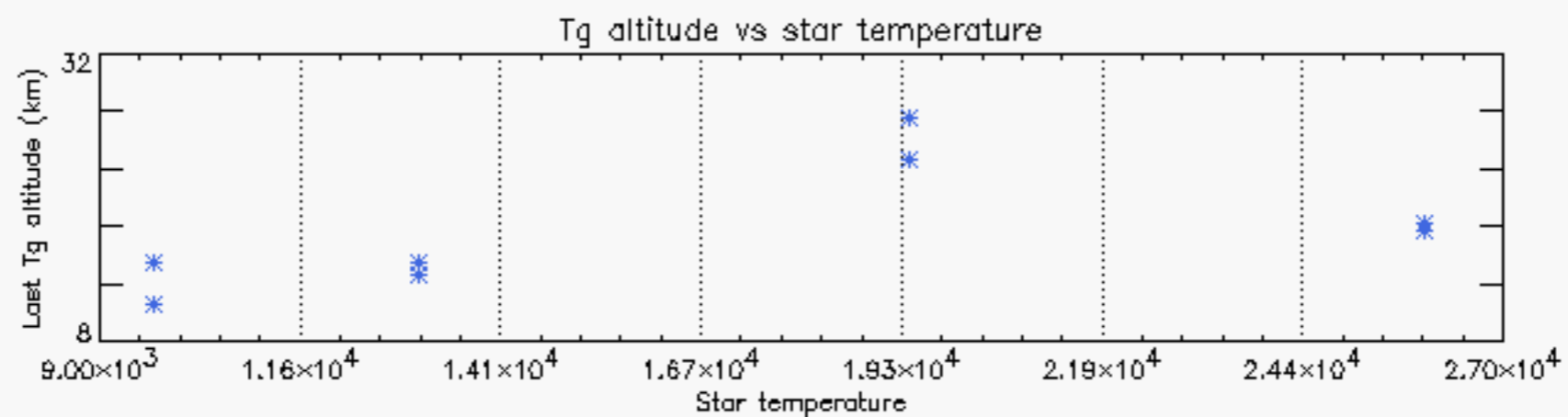
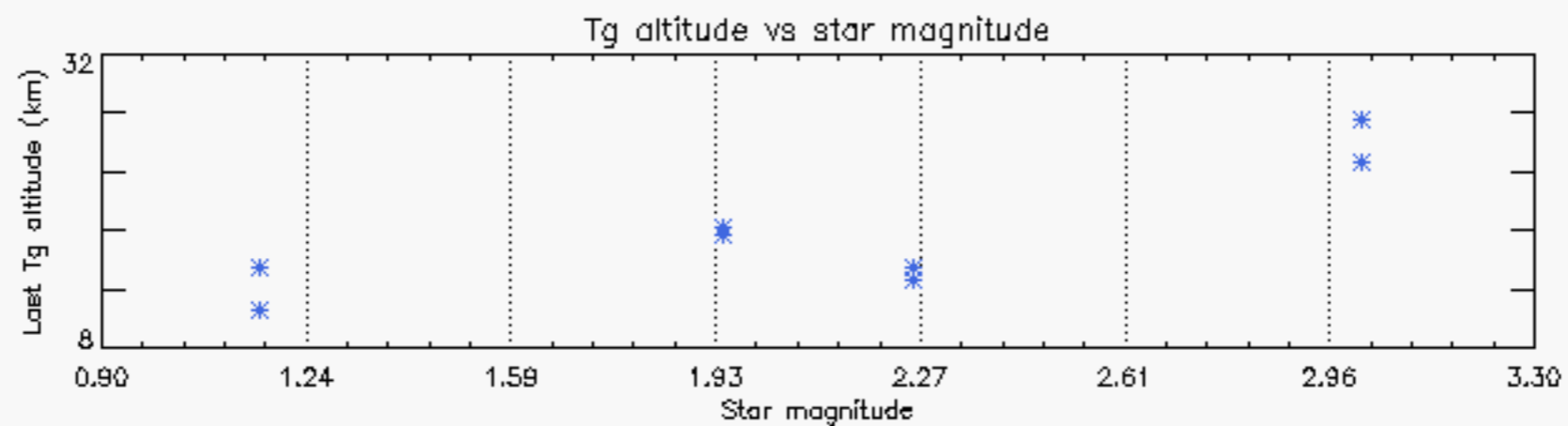
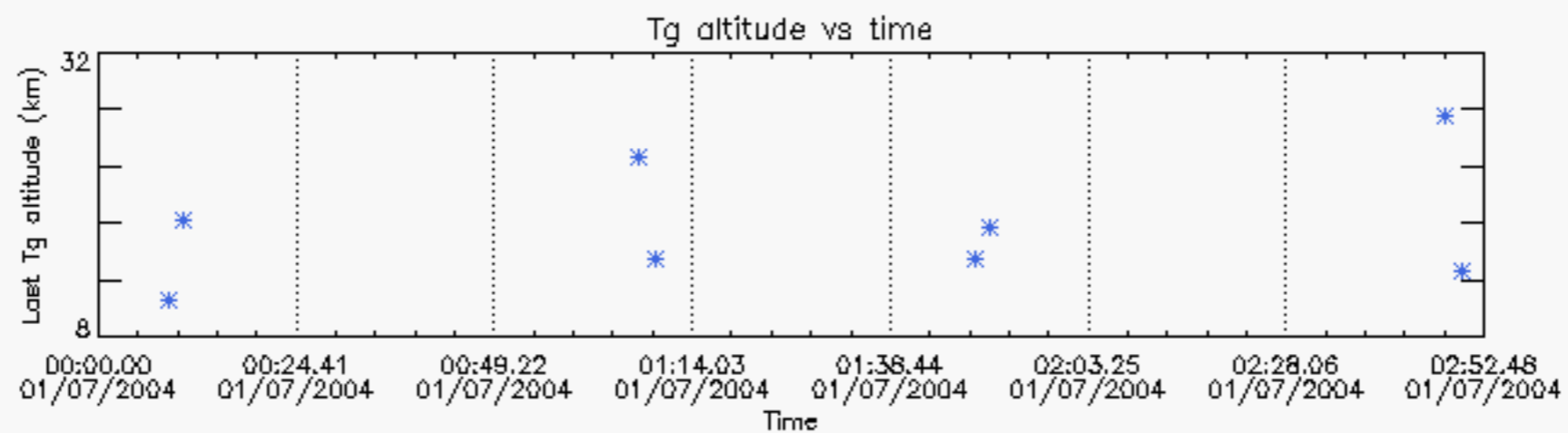
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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1;	-831.6;	01-JUL-2004	01:24:16;	Dark	;	47.5;	165;	34Gam Eri	;	2.95;	3200;occ;	95;	9;	12209
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
27;	3442.7;	01-JUL-2004	02:35:30;	Bright;	;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	12210

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1;	-2254.9;	01-JUL-2004	02:41:08;	Bright;	;	50.5;	74;	11Bet Cas	;	2.27;	6600;occ;	101;	0;	12210
2;	-2161.2;	01-JUL-2004	02:42:42;	Bright;	;	41.5;	110;	37Del Cas	;	2.68;	8900;occ;	83;	0;	12210
3;	-1976.0;	01-JUL-2004	02:45:47;	Bright;	;	46.5;	160;	23Gam Per	;	2.93;	4700;occ;	93;	0;	12210
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
9;	-835.8;	01-JUL-2004	03:04:47;	Dark	;	46.5;	165;	34Gam Eri	;	2.95;	3200;occ;	93;	0;	12210
10;	-494.4;	01-JUL-2004	03:10:29;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12210
11;	-330.3;	01-JUL-2004	03:13:13;	Dark	;	40.5;	157;	The1Eri	;	2.91;	9300;occ;	81;	0;	12210
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13;	38.0;	01-JUL-2004	03:19:21;	Dark	;	50.0;	9;	Alp Eri	;	0.45;	24000;occ;	100;	0;	12211
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
17;	747.1;	01-JUL-2004	03:31:10;	Dark	;	44.5;	45;	Alp Pav	;	1.94;	26000;occ;	89;	0;	12211
18;	975.2;	01-JUL-2004	03:34:58;	Dark	;	41.0;	141;	Bet Ara	;	2.84;	4600;occ;	82;	0;	12211
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
21;	1267.9;	01-JUL-2004	03:39:51;	Dark	;	46.5;	25;	35Lam Sco	;	1.62;	28000;occ;	93;	0;	12211
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
25;	1746.8;	01-JUL-2004	03:47:50;	Bright;	;	39.0;	98;	13Zet Oph	;	2.57;	30000;occ;	78;	0;	12211
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
35;	3338.3;	01-JUL-2004	04:14:21;	Bright;	;	43.5;	89;	5Alp Cep	;	2.45;	8000;occ;	87;	0;	12211
36;	3443.4;	01-JUL-2004	04:16:06;	Bright;	;	37.0;	49;	1Alp UMi	;	1.99;	6300;occ;	74;	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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5;-1770.6; 01-JUL-2004 04:29:48; Bright; 50.5; 73; 57Gam1And ; 2.26; 13100;occ; 101; 0;12211
6;-1617.6; 01-JUL-2004 04:32:22; Dark ; 75.0; 53; 43Bet And ; 2.05; 3300;occ; 150; 0;12211
7;-1355.6; 01-JUL-2004 04:36:43; Dark ; 62.0; 50; 13Alp Ari ; 2.01; 4250;occ; 124; 0;12211
8;-1057.3; 01-JUL-2004 04:41:42; Dark ; 49.0; 94; 92Alp Cet ; 2.53; 3100;occ; 98; 0;12211
9; -834.9; 01-JUL-2004 04:45:24; Dark ; 44.5; 165; 34Gam Eri ; 2.95; 3200;occ; 89; 0;12211
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11; -329.1; 01-JUL-2004 04:53:50; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;12211
12; -160.5; 01-JUL-2004 04:56:39; Dark ; 81.0; 52; 16Bet Cet ; 2.04; 4500;occ; 162; 0;12211
13; 38.7; 01-JUL-2004 04:59:58; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;12212
14; 315.6; 01-JUL-2004 05:04:35; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12212
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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
19; 1062.9; 01-JUL-2004 05:17:02; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;12212
20; 1171.4; 01-JUL-2004 05:18:51; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;12212
21; 1270.6; 01-JUL-2004 05:20:30; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;12212
22; 1356.2; 01-JUL-2004 05:21:55; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;12212
23; 1479.9; 01-JUL-2004 05:23:59; Bright; 47.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 95; 0;12212
24; 1642.7; 01-JUL-2004 05:26:42; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;12212
25; 1747.7; 01-JUL-2004 05:28:27; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;12212
26; 1878.6; 01-JUL-2004 05:30:38; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;12212
27; 1980.5; 01-JUL-2004 05:32:20; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;12212
28; 2120.4; 01-JUL-2004 05:34:40; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;12212
29; 2283.4; 01-JUL-2004 05:37:23; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;12212
30; 2446.9; 01-JUL-2004 05:40:06; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;12212
31; 2647.1; 01-JUL-2004 05:43:26; Bright; 45.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 91; 0;12212
32; 2806.1; 01-JUL-2004 05:46:05; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;12212
33; 2951.0; 01-JUL-2004 05:48:30; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;12212
34; 3191.5; 01-JUL-2004 05:52:31; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;12212
35; 3337.5; 01-JUL-2004 05:54:57; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;12212
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7;-1355.8; 01-JUL-2004 06:17:19; Dark ; 64.0; 50; 13Alp Ari ; 2.01; 4250;occ; 128; 0;12212
8;-1056.5; 01-JUL-2004 06:22:19; Dark ; 52.0; 94; 92Alp Cet ; 2.53; 3100;occ; 104; 0;12212
9; -834.7; 01-JUL-2004 06:26:00; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;12212
10; -494.1; 01-JUL-2004 06:31:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12212
11; -328.5; 01-JUL-2004 06:34:27; Dark ; 39.0; 157; The1Eri ; 2.91; 9300;occ; 78; 0;12212
12; -158.6; 01-JUL-2004 06:37:17; Dark ; 93.0; 52; 16Bet Cet ; 2.04; 4500;occ; 186; 0;12212
13; 39.3; 01-JUL-2004 06:40:34; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;12213
14; 316.0; 01-JUL-2004 06:45:11; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12213
15; 493.0; 01-JUL-2004 06:48:08; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;12213
16; 591.0; 01-JUL-2004 06:49:46; Dark ; 94.5; 18; 24Alp PsA ; 1.17; 9700;occ; 189; 0;12213
17; 747.9; 01-JUL-2004 06:52:23; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;12213
18; 975.3; 01-JUL-2004 06:56:10; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;12213
19; 1063.4; 01-JUL-2004 06:57:39; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;12213
20; 1171.8; 01-JUL-2004 06:59:27; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;12213
21; 1271.1; 01-JUL-2004 07:01:06; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;12213
22; 1356.5; 01-JUL-2004 07:02:32; Dark ; 45.5; 116; 19Del Sgr ; 2.70; 4100;occ; 91; 0;12213
23; 1480.4; 01-JUL-2004 07:04:36; Bright; 47.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 94; 0;12213
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7;-3389.4; 01-JUL-2004 07:24:02; Bright; 46.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 93; 0;12213
8;-3229.5; 01-JUL-2004 07:26:42; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;12213

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12;-2592.0; 01-JUL-2004 07:37:19; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;12213
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14;-2162.7; 01-JUL-2004 07:44:28; Bright; 44.5; 110; 37Del Cas ; 2.68; 8900;occ; 89; 0;12213
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13;-3392.2; 01-JUL-2004 17:27:35; Bright; 46.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 93; 0;12219
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15;-3085.1; 01-JUL-2004 17:32:42; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;12219

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9;	-4152.3;	02-JUL-2004	18:23:54;	Bright;	;	37.5;	120;	1Del Oph	;	2.73;	3200;	occ;	75;	0;	12234
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11;	-3917.1;	02-JUL-2004	18:27:49;	Bright;	;	40.0;	59;	55Alp Oph	;	2.08;	8900;	occ;	80;	0;	12234
12;	-3750.1;	02-JUL-2004	18:30:36;	Bright;	;	38.5;	127;	27Bet Her	;	2.78;	4700;	occ;	77;	0;	12234
13;	-3588.1;	02-JUL-2004	18:33:18;	Bright;	;	37.0;	133;	40Zet Her	;	2.81;	6000;	occ;	74;	0;	12234
14;	-3399.5;	02-JUL-2004	18:36:26;	Bright;	;	47.0;	5;	3Alp Lyr	;	0.03;	11000;	occ;	94;	0;	12234
15;	-3233.1;	02-JUL-2004	18:39:13;	Bright;	;	39.5;	130;	23Bet Dra	;	2.80;	5800;	occ;	79;	0;	12234
16;	-3084.2;	02-JUL-2004	18:41:42;	Bright;	;	39.0;	119;	14Eta Dra	;	2.73;	4700;	occ;	78;	0;	12234
17;	-2844.5;	02-JUL-2004	18:45:41;	Bright;	;	42.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	85;	0;	12234
18;	-2713.2;	02-JUL-2004	18:47:53;	Bright;	;	46.5;	89;	5Alp Cep	;	2.45;	8000;	occ;	93;	0;	12234
19;	-2595.3;	02-JUL-2004	18:49:51;	Bright;	;	40.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	81;	0;	12234
20;	-2267.5;	02-JUL-2004	18:55:19;	Bright;	;	49.0;	74;	11Bet Cas	;	2.27;	6600;	occ;	98;	0;	12234
21;	-2168.5;	02-JUL-2004	18:56:57;	Bright;	;	41.5;	110;	37Del Cas	;	2.68;	8900;	occ;	83;	0;	12234
22;	-1979.3;	02-JUL-2004	19:00:07;	Bright;	;	41.5;	160;	23Gam Per	;	2.93;	4700;	occ;	83;	0;	12234
23;	-1870.2;	02-JUL-2004	19:01:56;	Bright;	;	35.0;	175;	39Del Per	;	3.01;	19400;	occ;	70;	0;	12234
24;	-1773.6;	02-JUL-2004	19:03:32;	Bright;	;	52.5;	73;	57Gam1And	;	2.26;	13100;	occ;	105;	0;	12234
25;	-1617.0;	02-JUL-2004	19:06:09;	Dark	;	81.0;	53;	43Bet And	;	2.05;	3300;	occ;	162;	0;	12234
26;	-1453.5;	02-JUL-2004	19:08:53;	Dark	;	43.0;	146;	25Eta Tau	;	2.87;	15200;	occ;	86;	0;	12234
27;	-1346.6;	02-JUL-2004	19:10:39;	Dark	;	70.0;	50;	13Alp Ari	;	2.01;	4250;	occ;	140;	0;	12234
28;	-1047.0;	02-JUL-2004	19:15:39;	Dark	;	55.5;	94;	92Alp Cet	;	2.53;	3100;	occ;	111;	0;	12234
29;	-830.7;	02-JUL-2004	19:19:15;	Dark	;	47.5;	165;	34Gam Eri	;	2.95;	3200;	occ;	95;	0;	12234
30;	-506.1;	02-JUL-2004	19:24:40;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	12234
31;	-319.7;	02-JUL-2004	19:27:46;	Dark	;	43.5;	157;	The1Eri	;	2.91;	9300;	occ;	87;	0;	12234
32;	-117.1;	02-JUL-2004	19:31:09;	Dark	;	85.0;	52;	16Bet Cet	;	2.04;	4500;	occ;	170;	0;	12234
33;	47.0;	02-JUL-2004	19:33:53;	Dark	;	48.5;	9;	Alp Eri	;	0.45;	24000;	occ;	97;	0;	12235
34;	318.6;	02-JUL-2004	19:38:25;	Dark	;	41.5;	135;	Bet Hyi	;	2.82;	5800;	occ;	83;	0;	12235
35;	514.0;	02-JUL-2004	19:41:40;	Dark	;	65.5;	63;	Bet Gru	;	2.15;	2800;	occ;	131;	0;	12235
36;	629.7;	02-JUL-2004	19:43:36;	Dark	;	84.0;	18;	24Alp PsA	;	1.17;	9700;	occ;	168;	0;	12235
37;	805.7;	02-JUL-2004	19:46:32;	Dark	;	58.0;	172;	Gam Gru	;	3.00;	13100;	occ;	116;	0;	12235

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1;	-2571.3;	03-JUL-2004	06:34:26;	Bright;	;	38.0;	49;	1Alp UMi	;	1.99;	6300;	occ;	76;	42;	12241
2;	-2272.0;	03-JUL-2004	06:39:25;	Bright;	;	50.0;	74;	11Bet Cas	;	2.27;	6600;	occ;	100;	0;	12241
3;	-2171.0;	03-JUL-2004	06:41:07;	Bright;	;	42.0;	110;	37Del Cas	;	2.68;	8900;	occ;	84;	0;	12241
4;	-1976.8;	03-JUL-2004	06:44:21;	Bright;	;	41.0;	160;	23Gam Per	;	2.93;	4700;	occ;	82;	0;	12241
5;	-1870.0;	03-JUL-2004	06:46:08;	Bright;	;	35.0;	175;	39Del Per	;	3.01;	19400;	occ;	70;	0;	12241
6;	-1775.9;	03-JUL-2004	06:47:42;	Bright;	;	54.5;	73;	57Gam1And	;	2.26;	13100;	occ;	109;	0;	12241
7;	-1618.1;	03-JUL-2004	06:50:19;	Dark	;	77.5;	53;	43Bet And	;	2.05;	3300;	occ;	155;	0;	12241
8;	-1451.3;	03-JUL-2004	06:53:06;	Dark	;	44.0;	146;	25Eta Tau	;	2.87;	15200;	occ;	88;	0;	12241
9;	-1344.6;	03-JUL-2004	06:54:53;	Dark	;	65.0;	50;	13Alp Ari	;	2.01;	4250;	occ;	130;	0;	12241
10;	-1043.1;	03-JUL-2004	06:59:54;	Dark	;	45.0;	94;	92Alp Cet	;	2.53;	3100;	occ;	90;	0;	12241
11;	-825.8;	03-JUL-2004	07:03:32;	Dark	;	40.5;	165;	34Gam Eri	;	2.95;	3200;	occ;	81;	0;	12241
12;	-499.5;	03-JUL-2004	07:08:58;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	12241
13;	-315.9;	03-JUL-2004	07:12:02;	Dark	;	41.0;	157;	The1Eri	;	2.91;	9300;	occ;	82;	0;	12241
14;	-103.9;	03-JUL-2004	07:15:34;	Dark	;	96.5;	52;	16Bet Cet	;	2.04;	4500;	occ;	193;	0;	12241
15;	53.7;	03-JUL-2004	07:18:11;	Dark	;	50.5;	9;	Alp Eri	;	0.45;	24000;	occ;	101;	0;	12242
16;	323.2;	03-JUL-2004	07:22:41;	Dark	;	38.5;	135;	Bet Hyi	;	2.82;	5800;	occ;	77;	0;	12242
17;	520.0;	03-JUL-2004	07:25:57;	Dark	;	55.5;	63;	Bet Gru	;	2.15;	2800;	occ;	111;	0;	12242
18;	641.0;	03-JUL-2004	07:27:59;	Dark	;	90.5;	18;	24Alp PsA	;	1.17;	9700;	occ;	181;	0;	12242
19;	812.9;	03-JUL-2004	07:30:50;	Dark	;	57.5;	172;	Gam Gru	;	3.00;	13100;	occ;	115;	0;	12242
20;	980.4;	03-JUL-2004	07:33:38;	Dark	;	46.0;	141;	Bet Ara	;	2.84;	4600;	occ;	92;	0;	12242
21;	1069.0;	03-JUL-2004	07:35:06;	Dark	;	40.0;	147;	Alp Ara	;	2.88;	26000;	occ;	80;	0;	12242
22;	1177.6;	03-JUL-2004	07:36:55;	Dark	;	40.5;	40;	The Sco	;	1.86;	7100;	occ;	81;	0;	12242
23;	1277.4;	03-JUL-2004	07:38:35;	Dark	;	42.0;	25;	35Lam Sco	;	1.62;	28000;	occ;	84;	0;	12242
24;	1363.3;	03-JUL-2004	07:40:01;	Dark	;	51.5;	116;	19Del Sgr	;	2.70;	4100;	occ;	103;	0;	12242
25;	1486.5;	03-JUL-2004	07:42:04;	Bright;	;	44.5;	155;	41Pi Sgr	;	2.90;	6600;	occ;	89;	0;	12242
26;	1647.4;	03-JUL-2004	07:44:45;	Bright;	;	37.0;	86;	35Eta Oph	;	2.43;	10200;	occ;	74;	0;	12242

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1;	-4352.6;	03-JUL-2004	07:45:21;	Bright;	;	37.5;	86;	35Eta Oph	;	2.43;	10200;	occ;	75;	72;	12242
2;	-4282.1;	03-JUL-2004	07:46:31;	Bright;	;	37.5;	98;	13Zet Oph	;	2.57;	30000;	occ;	75;	0;	12242

3;	-4150.3;	03-JUL-2004	07:48:43;	Bright;	38.5;	120;	1Del Oph	;	2.73;	3200;occ;	77;	0;	12242	
4;	-4055.3;	03-JUL-2004	07:50:18;	Bright;	37.0;	126;	60Bet Oph	;	2.77;	4250;occ;	74;	0;	12242	
5;	-3916.4;	03-JUL-2004	07:52:37;	Bright;	40.0;	59;	55Alp Oph	;	2.08;	8900;occ;	80;	0;	12242	
6;	-3747.6;	03-JUL-2004	07:55:26;	Bright;	39.0;	127;	27Bet Her	;	2.78;	4700;occ;	78;	0;	12242	
7;	-3585.9;	03-JUL-2004	07:58:08;	Bright;	37.0;	133;	40Zet Her	;	2.81;	6000;occ;	74;	0;	12242	
8;	-3402.2;	03-JUL-2004	08:01:11;	Bright;	45.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	90;	0;	12242	
9;	-3233.2;	03-JUL-2004	08:04:00;	Bright;	37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	0;	12242	
10;	-3082.9;	03-JUL-2004	08:06:31;	Bright;	37.5;	119;	14Eta Dra	;	2.73;	4700;occ;	75;	0;	12242	
11;	-2840.2;	03-JUL-2004	08:10:33;	Bright;	38.0;	60;	7Bet UMi	;	2.08;	3950;occ;	76;	0;	12242	
12;	-2718.5;	03-JUL-2004	08:12:35;	Bright;	46.0;	89;	5Alp Cep	;	2.45;	8000;occ;	92;	0;	12242	
13;	-2592.2;	03-JUL-2004	08:14:41;	Bright;	37.5;	49;	1Alp UMi	;	1.99;	6300;occ;	75;	0;	12242	
14;	-2272.0;	03-JUL-2004	08:20:01;	Bright;	50.5;	74;	11Bet Cas	;	2.27;	6600;occ;	101;	0;	12242	
15;	-2171.2;	03-JUL-2004	08:21:42;	Bright;	51.5;	110;	37Del Cas	;	2.68;	8900;occ;	103;	0;	12242	
16;	-1976.9;	03-JUL-2004	08:24:57;	Bright;	38.5;	160;	23Gam Per	;	2.93;	4700;occ;	77;	0;	12242	
17;	-1870.0;	03-JUL-2004	08:26:43;	Bright;	40.5;	175;	39Del Per	;	3.01;	19400;occ;	81;	0;	12242	
18;	-1774.2;	03-JUL-2004	08:28:19;	Bright;	54.5;	73;	57Gam1And	;	2.26;	13100;occ;	109;	0;	12242	
19;	-1617.5;	03-JUL-2004	08:30:56;	Dark	;	83.0;	43Bet And	;	2.05;	3300;occ;	166;	0;	12242	
20;	-1450.9;	03-JUL-2004	08:33:43;	Dark	;	41.5;	146;	25Eta Tau	;	2.87;	15200;occ;	83;	0;	12242
21;	-1344.4;	03-JUL-2004	08:35:29;	Dark	;	66.0;	50;	13Alp Ari	;	2.01;	4250;occ;	132;	0;	12242
22;	-1042.6;	03-JUL-2004	08:40:31;	Dark	;	54.0;	94;	92Alp Cet	;	2.53;	3100;occ;	108;	0;	12242
23;	-825.2;	03-JUL-2004	08:44:08;	Dark	;	42.5;	165;	34Gam Eri	;	2.95;	3200;occ;	85;	0;	12242
24;	-498.5;	03-JUL-2004	08:49:35;	Dark	;	59.5;	0;	;	0.00;	0;occ;	119;	0;	12242	
25;	-315.1;	03-JUL-2004	08:52:38;	Dark	;	41.0;	157;	The1Eri	;	2.91;	9300;occ;	82;	0;	12242
26;	-101.9;	03-JUL-2004	08:56:12;	Dark	;	80.5;	52;	16Bet Cet	;	2.04;	4500;occ;	161;	0;	12242
27;	54.2;	03-JUL-2004	08:58:48;	Dark	;	42.0;	9;	Alp Eri	;	0.45;	24000;occ;	84;	0;	12243
28;	323.2;	03-JUL-2004	09:03:17;	Dark	;	39.0;	135;	Bet Hyi	;	2.82;	5800;occ;	78;	0;	12243
29;	521.8;	03-JUL-2004	09:06:35;	Dark	;	56.5;	63;	Bet Gru	;	2.15;	2800;occ;	113;	0;	12243
30;	642.7;	03-JUL-2004	09:08:36;	Dark	;	81.5;	18;	24Alp PsA	;	1.17;	9700;occ;	163;	0;	12243
31;	814.2;	03-JUL-2004	09:11:28;	Dark	;	60.0;	172;	Gam Gru	;	3.00;	13100;occ;	120;	0;	12243
32;	980.6;	03-JUL-2004	09:14:14;	Dark	;	42.5;	141;	Bet Ara	;	2.84;	4600;occ;	85;	0;	12243
33;	1069.0;	03-JUL-2004	09:15:42;	Dark	;	41.5;	147;	Alp Ara	;	2.88;	26000;occ;	83;	0;	12243
34;	1177.6;	03-JUL-2004	09:17:31;	Dark	;	44.0;	40;	The Sco	;	1.86;	7100;occ;	88;	0;	12243
35;	1277.5;	03-JUL-2004	09:19:11;	Dark	;	42.5;	25;	35Lam Sco	;	1.62;	28000;occ;	85;	0;	12243
36;	1363.4;	03-JUL-2004	09:20:37;	Dark	;	51.5;	116;	19Del Sgr	;	2.70;	4100;occ;	103;	0;	12243
37;	1486.7;	03-JUL-2004	09:22:40;	Bright;	44.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	88;	0;	12243	
38;	1647.5;	03-JUL-2004	09:25:21;	Bright;	37.5;	86;	35Eta Oph	;	2.43;	10200;occ;	75;	0;	12243	
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1;	-4281.8;	03-JUL-2004	09:27:08;	Bright;	38.0;	98;	13Zet Oph	;	2.57;	30000;occ;	76;	0;	12243	
2;	-4150.0;	03-JUL-2004	09:29:19;	Bright;	38.0;	120;	1Del Oph	;	2.73;	3200;occ;	76;	0;	12243	
3;	-4055.2;	03-JUL-2004	09:30:54;	Bright;	37.0;	126;	60Bet Oph	;	2.77;	4250;occ;	74;	0;	12243	
4;	-3916.5;	03-JUL-2004	09:33:13;	Bright;	37.0;	59;	55Alp Oph	;	2.08;	8900;occ;	74;	0;	12243	
5;	-3747.6;	03-JUL-2004	09:36:02;	Bright;	37.0;	127;	27Bet Her	;	2.78;	4700;occ;	74;	0;	12243	
6;	-3585.9;	03-JUL-2004	09:38:43;	Bright;	37.5;	133;	40Zet Her	;	2.81;	6000;occ;	75;	0;	12243	
7;	-3402.8;	03-JUL-2004	09:41:47;	Bright;	47.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	95;	0;	12243	
8;	-3233.6;	03-JUL-2004	09:44:36;	Bright;	38.0;	130;	23Bet Dra	;	2.80;	5800;occ;	76;	0;	12243	
9;	-3083.0;	03-JUL-2004	09:47:06;	Bright;	38.0;	119;	14Eta Dra	;	2.73;	4700;occ;	76;	0;	12243	
10;	-2840.3;	03-JUL-2004	09:51:09;	Bright;	37.5;	60;	7Bet UMi	;	2.08;	3950;occ;	75;	0;	12243	
11;	-2719.5;	03-JUL-2004	09:53:10;	Bright;	47.5;	89;	5Alp Cep	;	2.45;	8000;occ;	95;	0;	12243	
12;	-2592.2;	03-JUL-2004	09:55:17;	Bright;	38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	12243	
13;	-2272.5;	03-JUL-2004	10:00:37;	Bright;	50.0;	74;	11Bet Cas	;	2.27;	6600;occ;	100;	0;	12243	
14;	-2171.5;	03-JUL-2004	10:02:18;	Bright;	44.0;	110;	37Del Cas	;	2.68;	8900;occ;	88;	0;	12243	
15;	-1977.0;	03-JUL-2004	10:05:32;	Bright;	39.0;	160;	23Gam Per	;	2.93;	4700;occ;	78;	0;	12243	
16;	-1870.2;	03-JUL-2004	10:07:19;	Bright;	36.0;	175;	39Del Per	;	3.01;	19400;occ;	72;	0;	12243	
17;	-1774.3;	03-JUL-2004	10:08:55;	Bright;	56.5;	73;	57Gam1And	;	2.26;	13100;occ;	113;	0;	12243	
18;	-1617.4;	03-JUL-2004	10:11:32;	Dark	;	78.0;	53;	43Bet And	;	2.05;	3300;occ;	156;	0;	12243
19;	-1450.8;	03-JUL-2004	10:14:19;	Dark	;	42.0;	146;	25Eta Tau	;	2.87;	15200;occ;	84;	0;	12243
20;	-1343.5;	03-JUL-2004	10:16:06;	Dark	;	61.5;	50;	13Alp Ari	;	2.01;	4250;occ;	123;	0;	12243
21;	-1042.1;	03-JUL-2004	10:21:07;	Dark	;	52.5;	94;	92Alp Cet	;	2.53;	3100;occ;	105;	0;	12243
22;	-825.2;	03-JUL-2004	10:24:44;	Dark	;	44.0;	165;	34Gam Eri	;	2.95;	3200;occ;	88;	0;	12243
23;	-497.5;	03-JUL-2004	10:30:12;	Dark	;	59.5;	0;	;	0.00;	0;occ;	119;	0;	12243	
24;	-315.0;	03-JUL-2004	10:33:14;	Dark	;	41.0;	157;	The1Eri	;	2.91;	9300;occ;	82;	0;	12243
25;	-99.1;	03-JUL-2004	10:36:50;	Dark	;	90.0;	52;	16Bet Cet	;	2.04;	4500;occ;	180;	0;	12243
26;	54.8;	03-JUL-2004	10:39:24;	Dark	;	46.0;	9;	Alp Eri	;	0.45;	24000;occ;	92;	0;	12244
27;	322.5;	03-JUL-2004	10:43:52;	Dark	;	39.0;	135;	Bet Hyi	;	2.82;	5800;occ;	78;	0;	12244
28;	522.6;	03-JUL-2004	10:47:12;	Dark	;	63.0;	63;	Bet Gru	;	2.15;	2800;occ;	126;	0;	12244
29;	644.9;	03-JUL-2004	10:49:14;	Dark	;	87.0;	18;	24Alp PsA	;	1.17;	9700;occ;	174;	0;	12244
30;	815.0;	03-JUL-2004	10:52:04;	Dark	;	59.0;	172;	Gam Gru	;	3.00;	13100;occ;	118;	0;	12244
31;	980.4;	03-JUL-2004	10:54:50;	Dark	;	40.0;	141;	Bet Ara	;	2.84;	4600;occ;	80;	0;	12244


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24; 364.7; 15-JUL-2004 11:07:36; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12416
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24; 365.0; 15-JUL-2004 12:48:12; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12417
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23; 4115.9; 17-JUL-2004 01:03:18; Bright; 45.5; 35; 33Alp Per ; 1.79; 6250;occ; 91; 0;12438
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26; 163.3; 16-JUL-2004 17:15:01; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;12434
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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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13;	-513.4;	22-JUL-2004	03:50:27;	Dark	;	41.5;	108;	Alp Col	;	2.65;	15200;occ;	83;	0;	12511
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```



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