

GOMOS Daily Report 07-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	09JUL2004 04:01:15
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (07JUL2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (08JUL2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	45
Nb of prods with errors	0

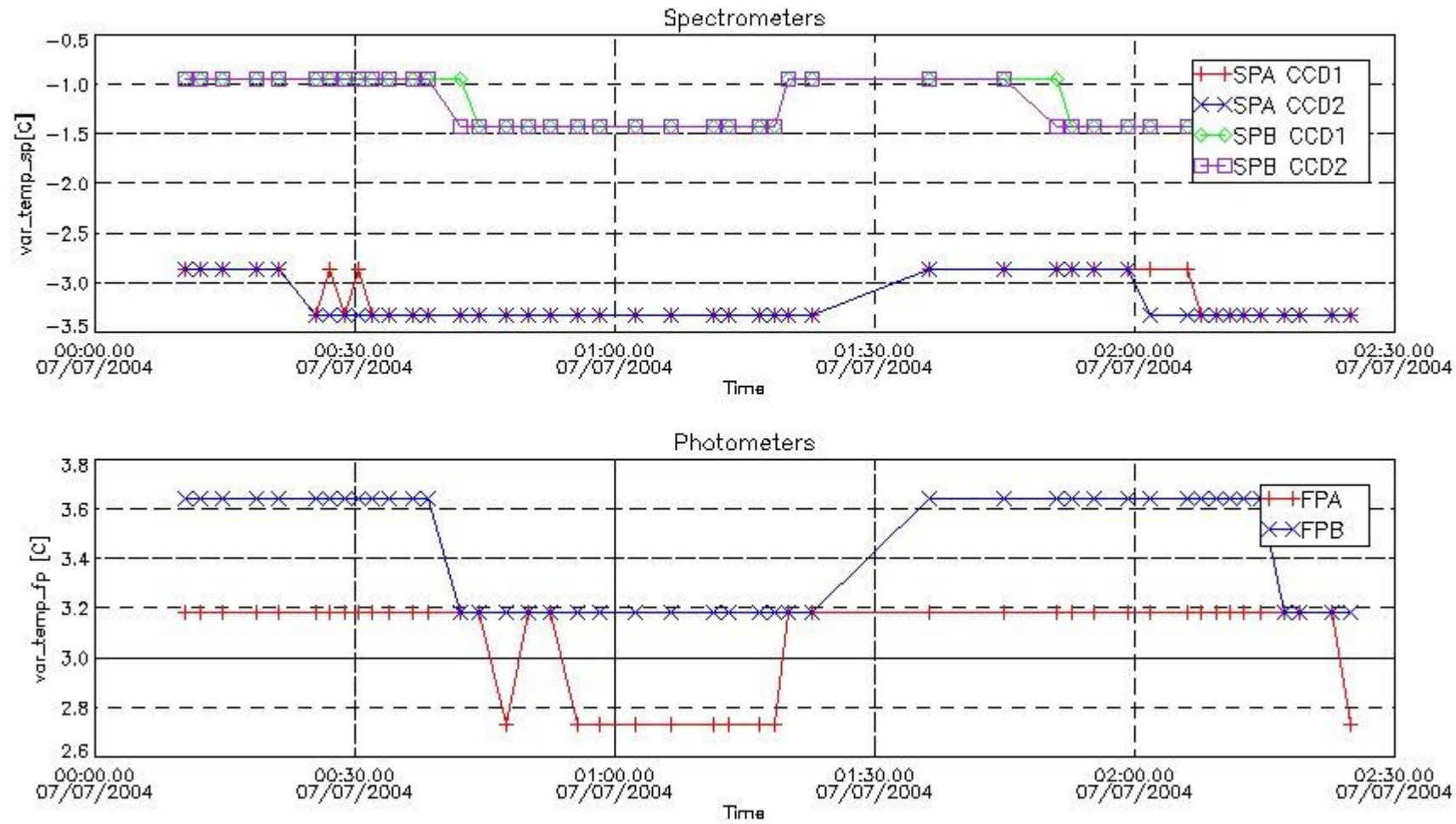
2. Summary of products arrived in PCF (Product Control Facility)

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

2.2 Summary of processed GOM_TRA_1P products

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20040707_001023_000000482028_00217_12295_0000.N1	07-JUL-2004 00:10:23	Dark	47.500	9	Alp Eri	0.45300	24000.	95	12295	No
GOM_TRA_1PNPDE20040707_001213_000000552028_00217_12295_0001.N1	07-JUL-2004 00:12:13	Dark	55.000	84	Alp Phe	2.3970	4500.0	110	12295	No
GOM_TRA_1PNPDE20040707_001437_000000412028_00217_12295_0002.N1	07-JUL-2004 00:14:37	Dark	41.000	135	Bet Hyi	2.8200	5800.0	82	12295	No
GOM_TRA_1PNPDE20040707_001833_000000572028_00217_12295_0003.N1	07-JUL-2004 00:18:33	Dark	57.000	63	Bet Gru	2.1500	2800.0	114	12295	No
GOM_TRA_1PNPDE20040707_002112_000000882028_00217_12295_0004.N1	07-JUL-2004 00:21:12	Twilight	88.000	18	24Alp PsA	1.1660	9700.0	176	12295	No
GOM_TRA_1PNPDE20040707_002530_000000422028_00217_12295_0005.N1	07-JUL-2004 00:25:30	Bright	42.000	141	Bet Ara	2.8400	4600.0	84	12295	No
GOM_TRA_1PNPDE20040707_002700_000000402028_00217_12295_0006.N1	07-JUL-2004 00:27:00	Bright	40.000	147	Alp Ara	2.8770	26000.	80	12295	No
GOM_TRA_1PNPDE20040707_002847_000000462028_00217_12295_0007.N1	07-JUL-2004 00:28:47	Bright	46.000	40	The Sco	1.8590	7100.0	92	12295	No
GOM_TRA_1PNPDE20040707_003028_000000442028_00217_12295_0008.N1	07-JUL-2004 00:30:28	Bright	43.500	25	35Lam Sco	1.6200	28000.	87	12295	No
GOM_TRA_1PNPDE20040707_003154_000000532028_00217_12295_0009.N1	07-JUL-2004 00:31:54	Bright	53.000	116	19Del Sgr	2.7000	4100.0	106	12295	No
GOM_TRA_1PNPDE20040707_003357_000000462028_00217_12295_0010.N1	07-JUL-2004 00:33:57	Bright	45.500	155	41Pi Sgr	2.9000	6600.0	91	12295	No
GOM_TRA_1PNPDE20040707_003638_000000392028_00217_12295_0011.N1	07-JUL-2004 00:36:38	Bright	38.500	86	35Eta Oph	2.4300	10200.	77	12295	No
GOM_TRA_1PNPDE20040707_003827_000000382028_00217_12295_0012.N1	07-JUL-2004 00:38:27	Bright	38.000	98	13Zet Oph	2.5710	30000.	76	12295	No
GOM_TRA_1PNPDE20040707_004204_000000382028_00217_12295_0013.N1	07-JUL-2004 00:42:04	Bright	38.000	126	60Bet Oph	2.7700	4250.0	76	12295	No
GOM_TRA_1PNPDE20040707_004421_000000382028_00217_12295_0014.N1	07-JUL-2004 00:44:21	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	12295	No
GOM_TRA_1PNPDE20040707_004721_000000392028_00217_12295_0015.N1	07-JUL-2004 00:47:21	Bright	39.000	127	27Bet Her	2.7810	4700.0	78	12295	No
GOM_TRA_1PNPDE20040707_004956_000000422028_00217_12295_0016.N1	07-JUL-2004 00:49:56	Bright	41.500	133	40Zet Her	2.8070	6000.0	83	12295	No
GOM_TRA_1PNPDE20040707_005235_000000412028_00217_12295_0017.N1	07-JUL-2004 00:52:35	Bright	41.000	5	3Alp Lyr	0.033000	11000.	82	12295	No
GOM_TRA_1PNPDE20040707_005539_000000392028_00217_12295_0018.N1	07-JUL-2004 00:55:39	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	12295	No
GOM_TRA_1PNPDE20040707_005819_000000382028_00217_12295_0019.N1	07-JUL-2004 00:58:19	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	12295	No
GOM_TRA_1PNPDE20040707_010226_000000402028_00217_12295_0020.N1	07-JUL-2004 01:02:26	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	12295	No
GOM_TRA_1PNPDE20040707_010625_000000352028_00217_12295_0021.N1	07-JUL-2004 01:06:25	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	12295	No
GOM_TRA_1PNPDE20040707_011116_000000512028_00217_12295_0022.N1	07-JUL-2004 01:11:16	Bright	51.000	74	11Bet Cas	2.2680	6600.0	102	12295	No
GOM_TRA_1PNPDE20040707_011309_000000442028_00217_12295_0023.N1	07-JUL-2004 01:13:09	Bright	43.500	110	37Del Cas	2.6780	8900.0	87	12295	No
GOM_TRA_1PNPDE20040707_011636_000000412028_00217_12295_0024.N1	07-JUL-2004 01:16:36	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	12295	No
GOM_TRA_1PNPDE20040707_011828_000000392028_00217_12295_0025.N1	07-JUL-2004 01:18:28	Twilight	39.000	175	39Del Per	3.0100	19400.	78	12295	No
GOM_TRA_1PNPDE20040707_012000_000000572028_00217_12295_0026.N1	07-JUL-2004 01:20:00	Twilight	56.500	73	57Gam1And	2.2600	13100.	113	12295	No
GOM_TRA_1PNPDE20040707_012240_000000692028_00217_12295_0027.N1	07-JUL-2004 01:22:40	Twilight	69.000	53	43Bet And	2.0480	3300.0	138	12295	No
GOM_TRA_1PNPDE20040707_013610_000000442028_00217_12295_0000.N1	07-JUL-2004 01:36:10	Dark	43.500	165	34Gam Eri	2.9500	3200.0	87	12295	No
GOM_TRA_1PNPDE20040707_014449_000000432028_00217_12295_0001.N1	07-JUL-2004 01:44:49	Dark	43.000	157	The1Eri	2.9060	9300.0	86	12295	No
GOM_TRA_1PNPDE20040707_015100_000000482028_00218_12296_0002.N1	07-JUL-2004 01:51:00	Dark	48.000	9	Alp Eri	0.45300	24000.	96	12296	No
GOM_TRA_1PNPDE20040707_015250_000000552028_00218_12296_0003.N1	07-JUL-2004 01:52:50	Dark	54.500	84	Alp Phe	2.3970	4500.0	109	12296	No
GOM_TRA_1PNPDE20040707_015514_000000392028_00218_12296_0004.N1	07-JUL-2004 01:55:14	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	12296	No
GOM_TRA_1PNPDE20040707_015909_000000672028_00218_12296_0005.N1	07-JUL-2004 01:59:09	Dark	67.000	63	Bet Gru	2.1500	2800.0	134	12296	No
GOM_TRA_1PNPDE20040707_020150_000000892028_00218_12296_0006.N1	07-JUL-2004 02:01:50	Twilight	89.000	18	24Alp PsA	1.1660	9700.0	178	12296	No
GOM_TRA_1PNPDE20040707_020606_000000422028_00218_12296_0007.N1	07-JUL-2004 02:06:06	Bright	42.000	141	Bet Ara	2.8400	4600.0	84	12296	No
GOM_TRA_1PNPDE20040707_020736_000000402028_00218_12296_0008.N1	07-JUL-2004 02:07:36	Bright	39.500	147	Alp Ara	2.8770	26000.	79	12296	No
GOM_TRA_1PNPDE20040707_020924_000000472028_00218_12296_0009.N1	07-JUL-2004 02:09:24	Bright	46.500	40	The Sco	1.8590	7100.0	93	12296	No
GOM_TRA_1PNPDE20040707_021102_000000442028_00218_12296_0010.N1	07-JUL-2004 02:11:02	Bright	43.500	25	35Lam Sco	1.6200	28000.	87	12296	No
GOM_TRA_1PNPDE20040707_021230_000000512028_00218_12296_0011.N1	07-JUL-2004 02:12:30	Bright	51.000	116	19Del Sgr	2.7000	4100.0	102	12296	No
GOM_TRA_1PNPDE20040707_021433_000000442028_00218_12296_0012.N1	07-JUL-2004 02:14:33	Bright	44.000	155	41Pi Sgr	2.9000	6600.0	88	12296	No
GOM_TRA_1PNPDE20040707_021714_000000392028_00218_12296_0013.N1	07-JUL-2004 02:17:14	Bright	38.500	86	35Eta Oph	2.4300	10200.	77	12296	No
GOM_TRA_1PNPDE20040707_021903_000000382028_00218_12296_0014.N1	07-JUL-2004 02:19:03	Bright	38.000	98	13Zet Oph	2.5710	30000.	76	12296	No
GOM_TRA_1PNPDE20040707_022239_000000392028_00218_12296_0015.N1	07-JUL-2004 02:22:39	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	12296	No
GOM_TRA_1PNPDE20040707_022457_000000382028_00218_12296_0016.N1	07-JUL-2004 02:24:57	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	12296	No

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



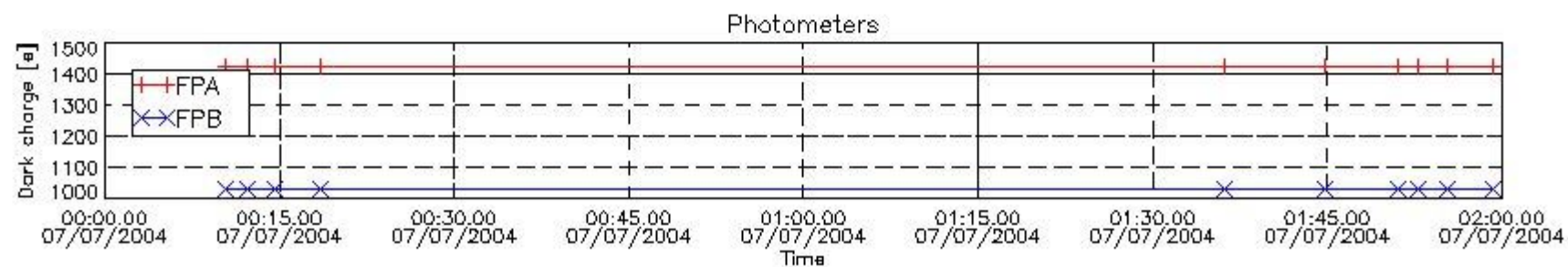
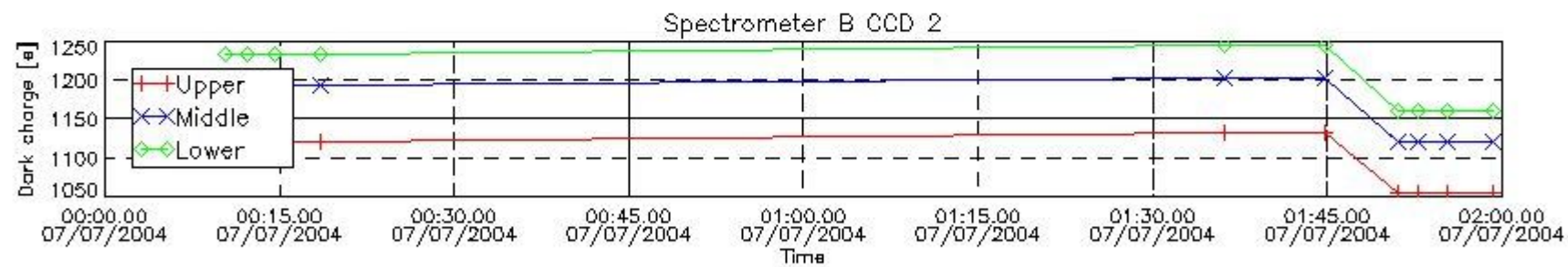
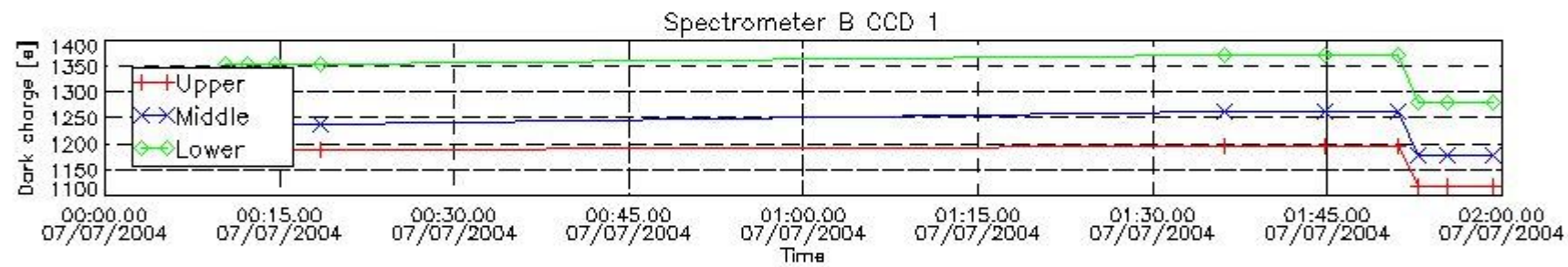
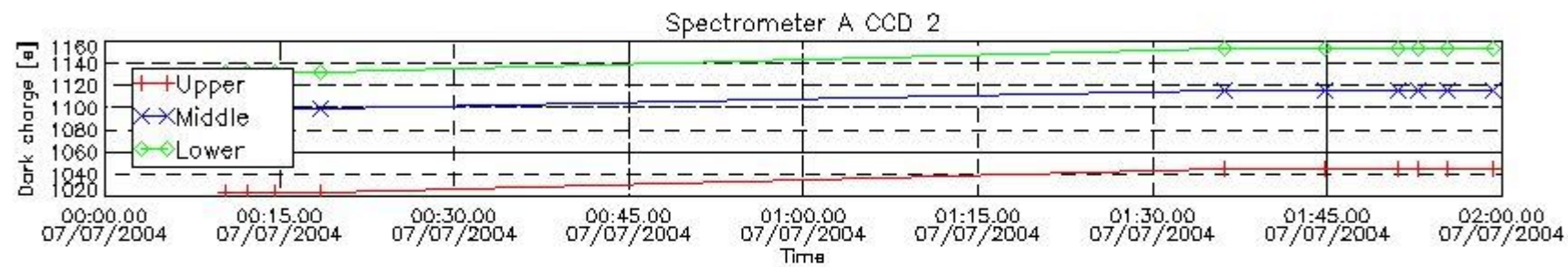
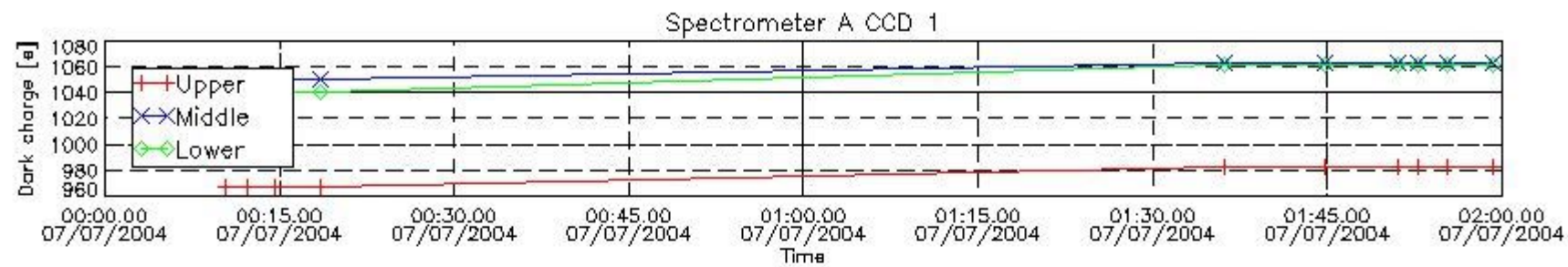
4. Overview of dark signal processing per product

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



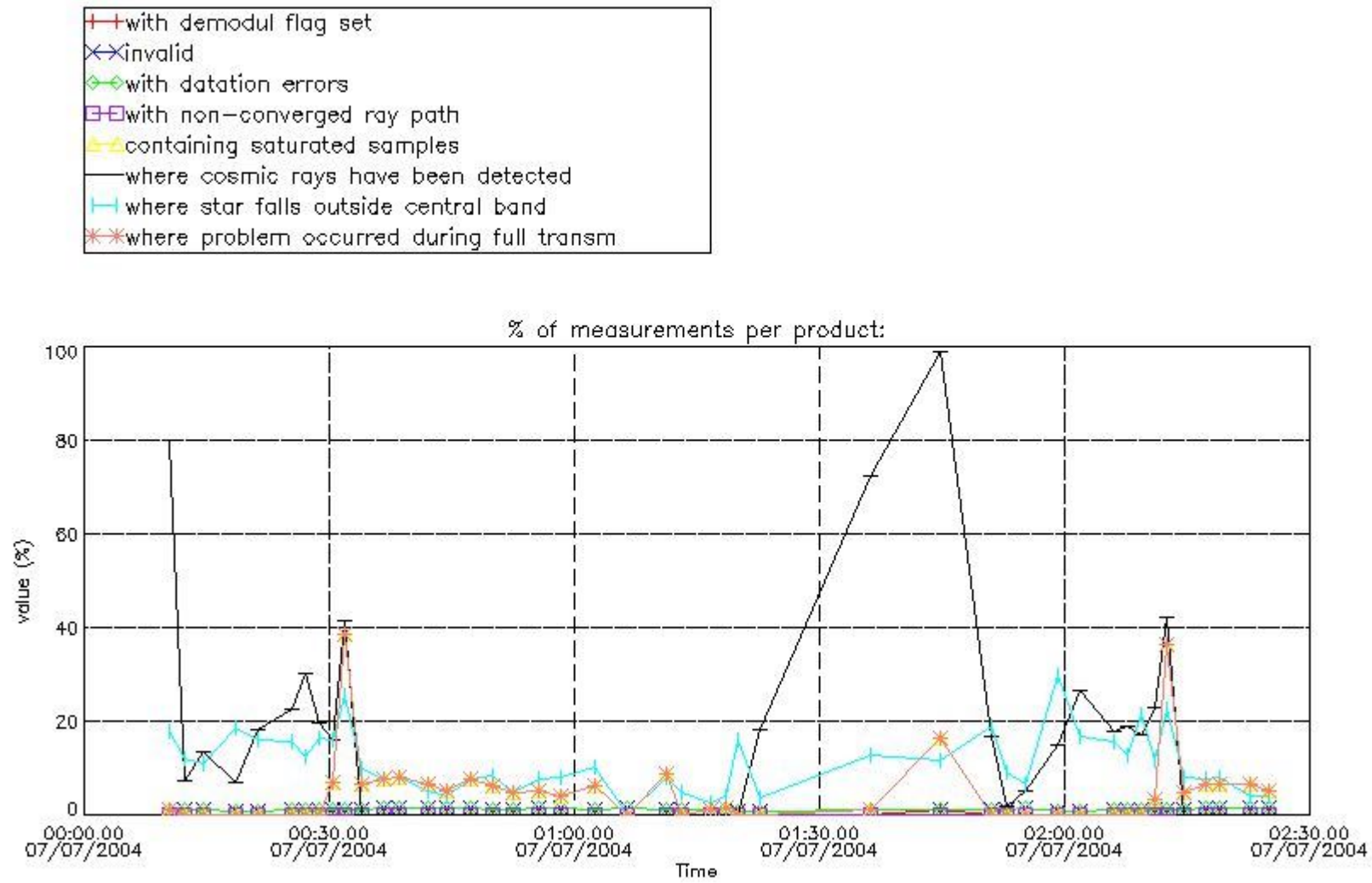
5. Demodulation flag and quality information monitoring

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:

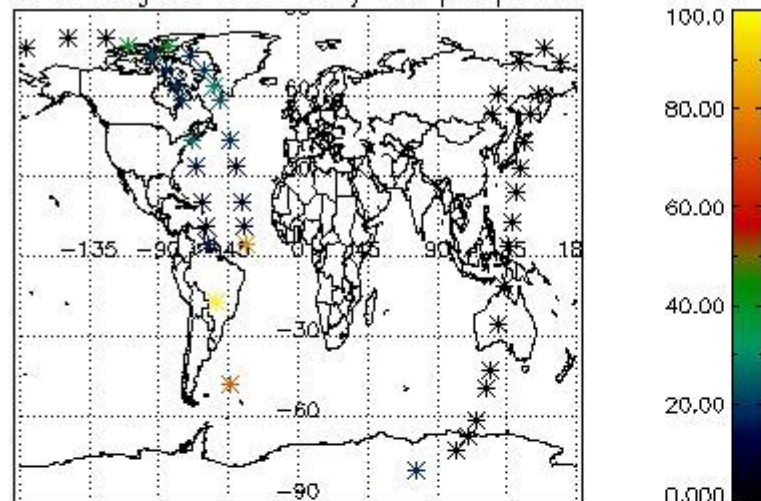
At least one measurement with demodulation flag set:	8.88889 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

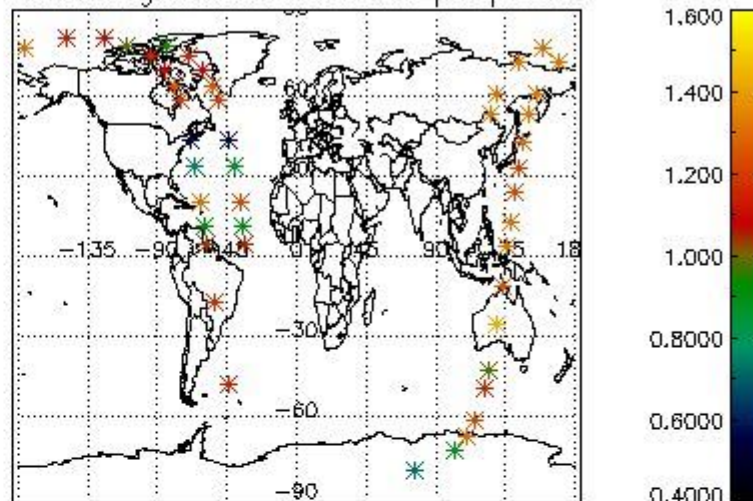


5.3 Plot quality information per product (world map)

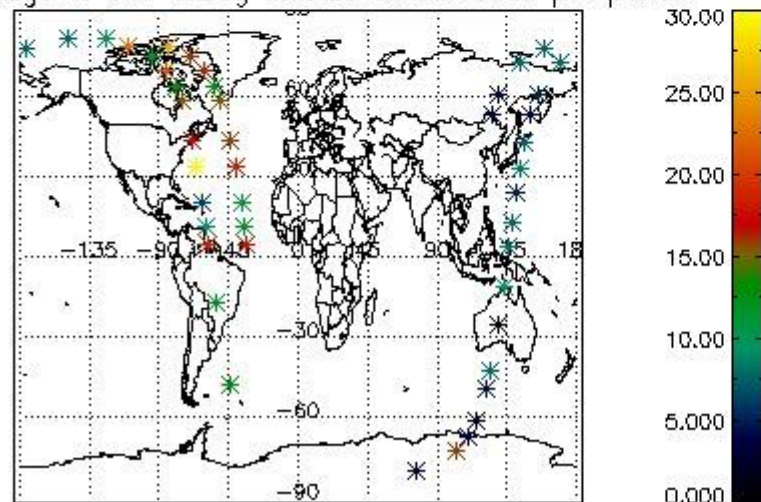
Percentage of cosmic ray hits per profile



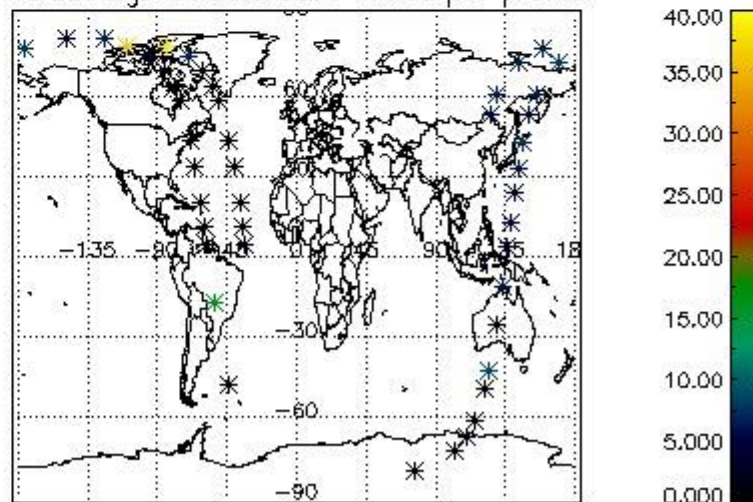
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



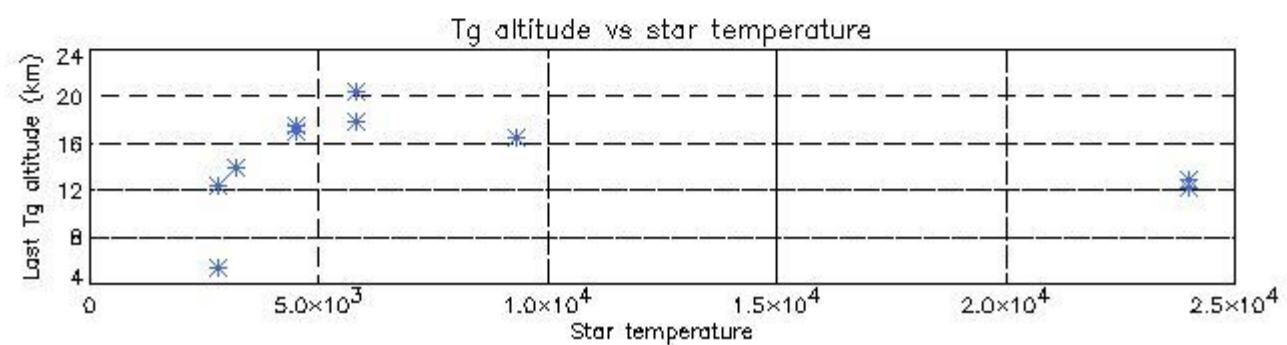
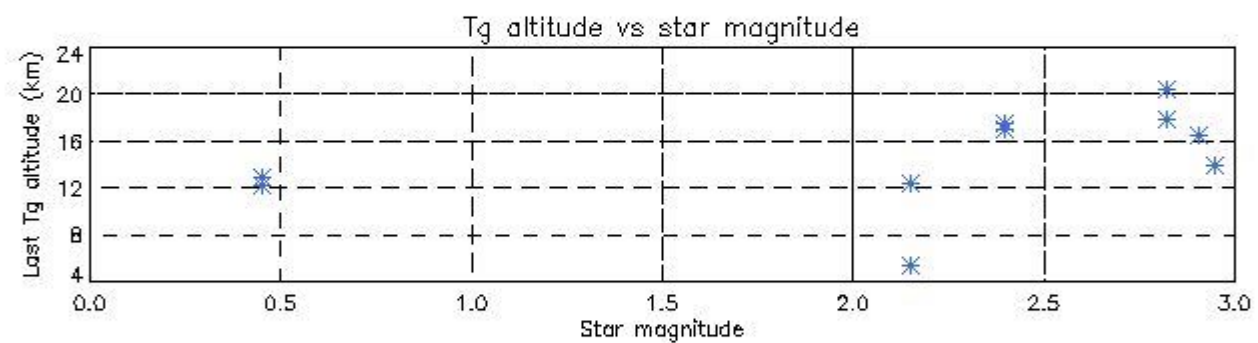
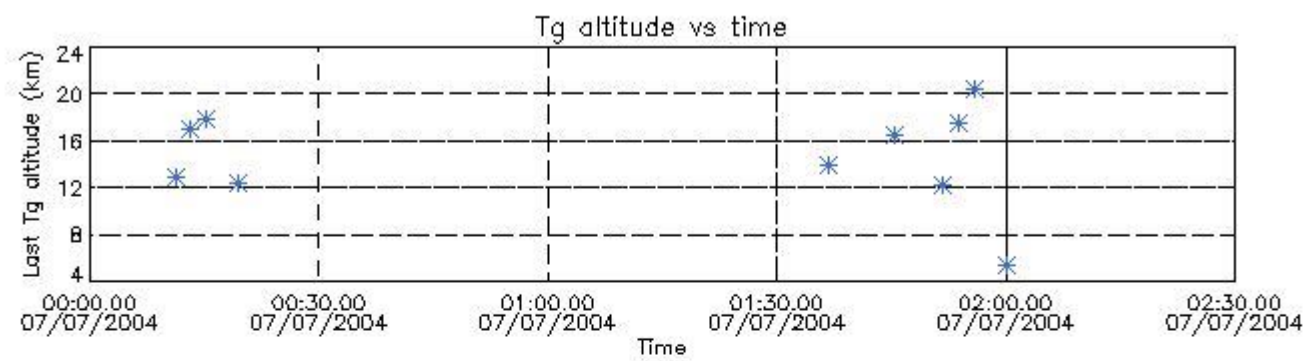
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.588	18.147	17.276
St. deviation:	4.2181	4.3235	4.6819
Maximum:	20.349	26.829	23.534
Minimum:	5.3855	7.2111	13.828
Number of data:	10.000	30.000	5.0000

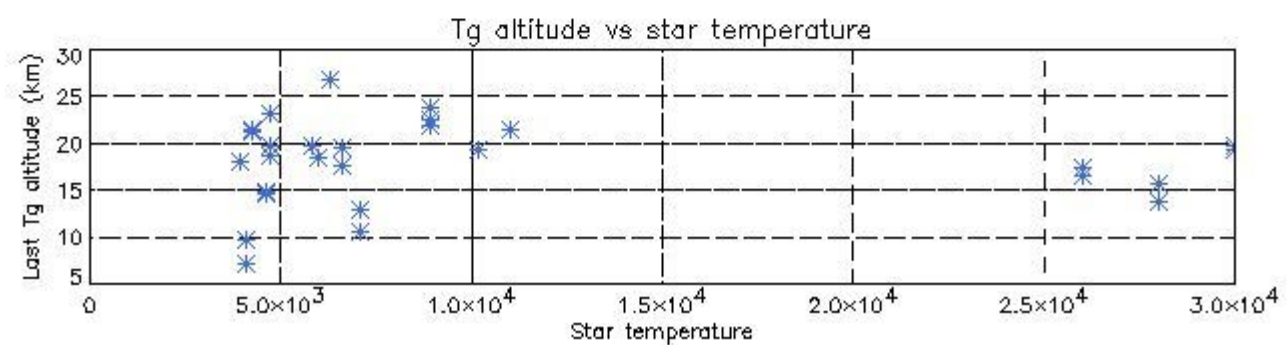
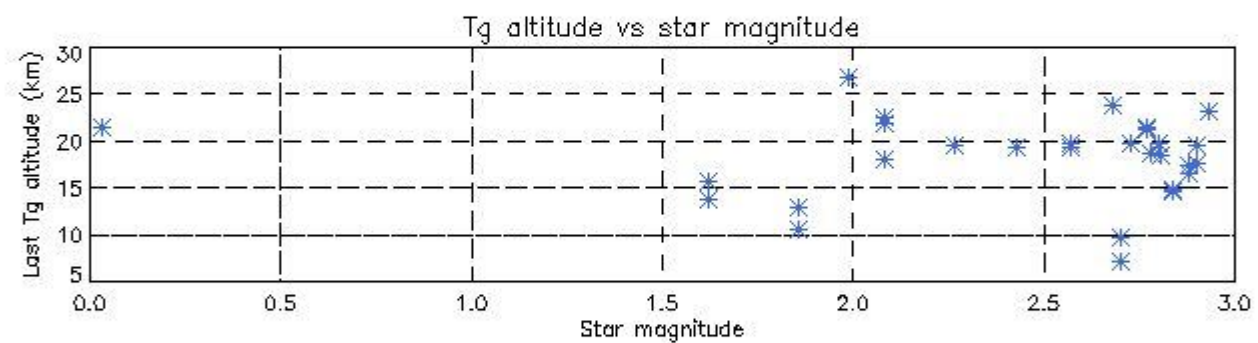
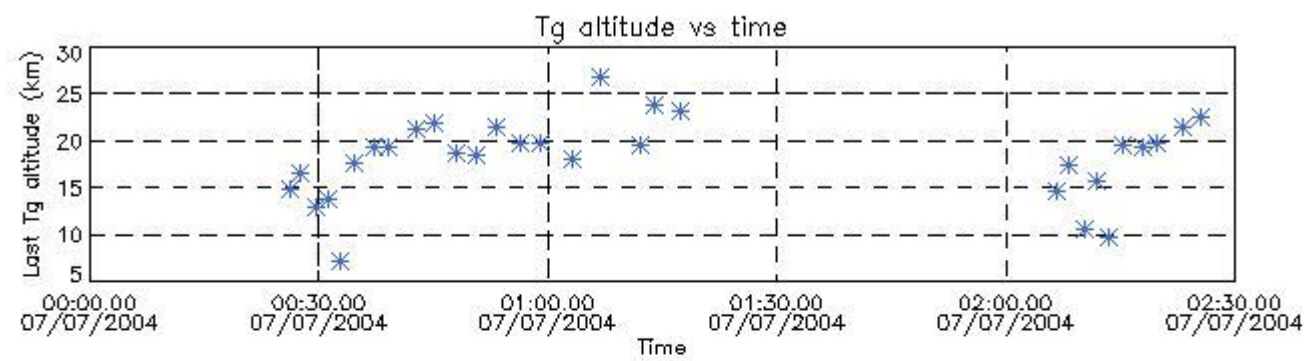
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



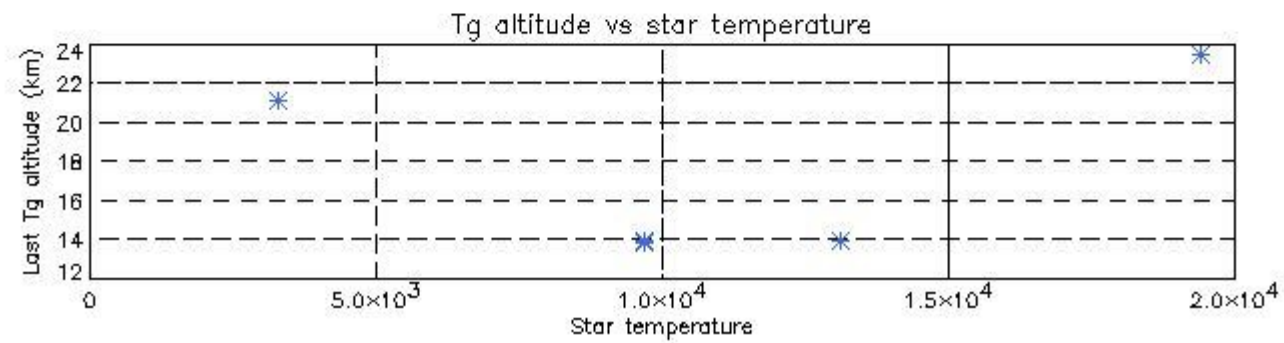
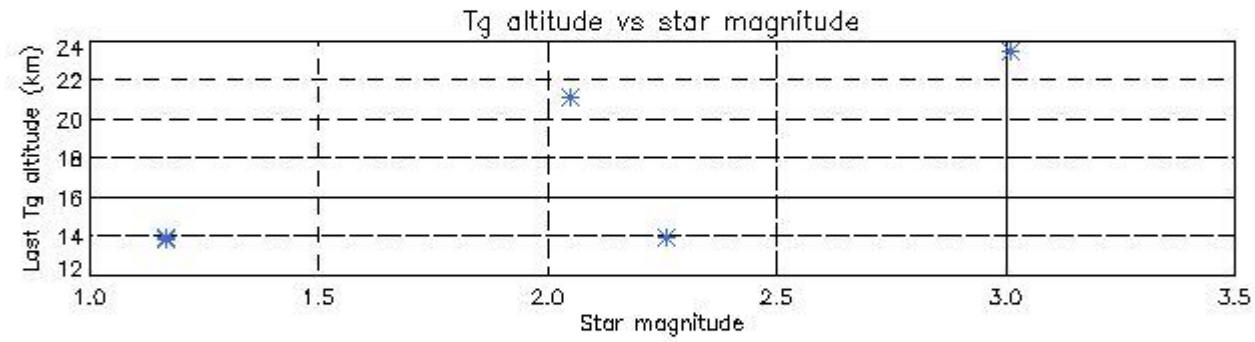
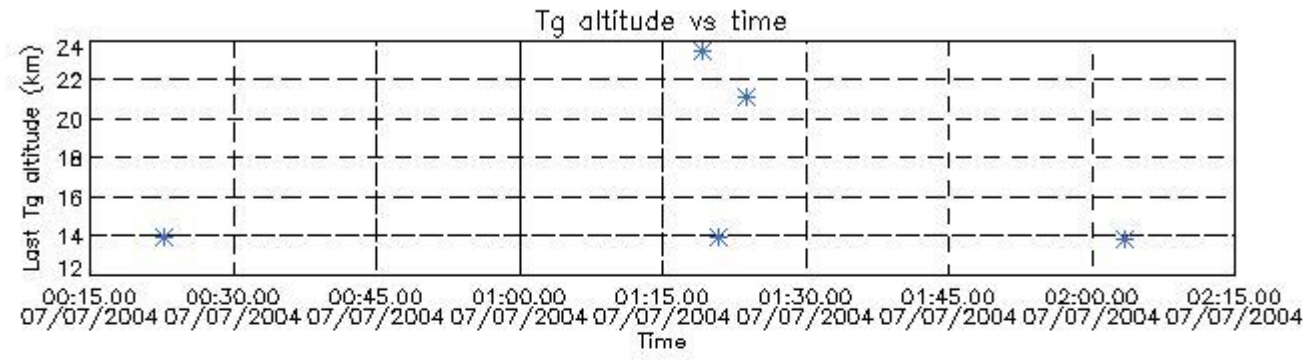
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

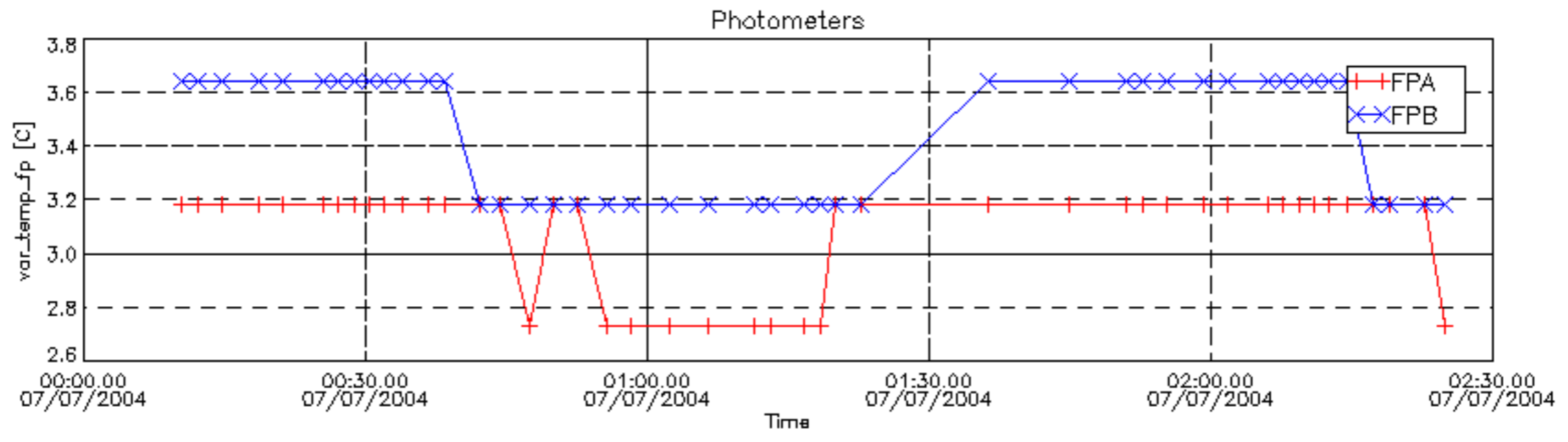
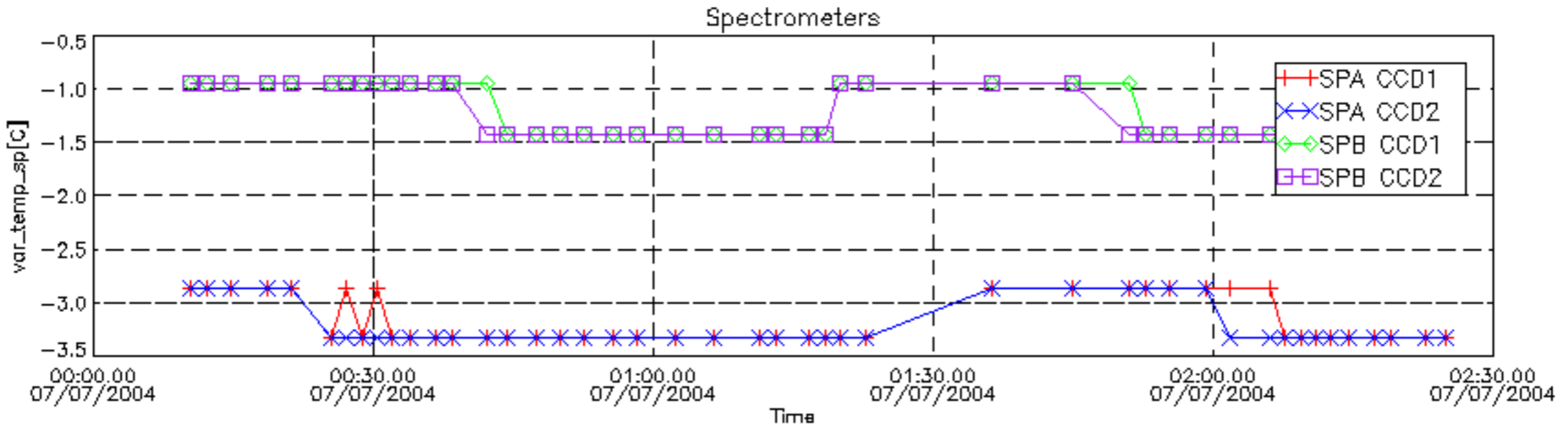
Tangent altitude at which the star is lost

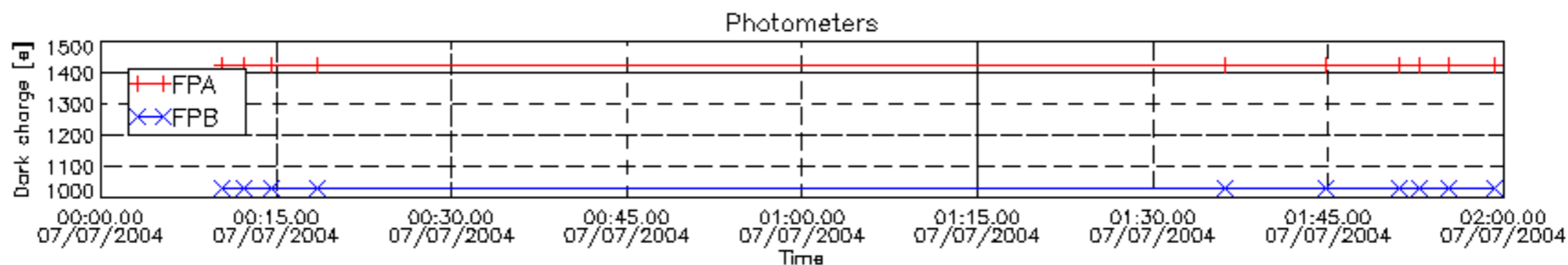
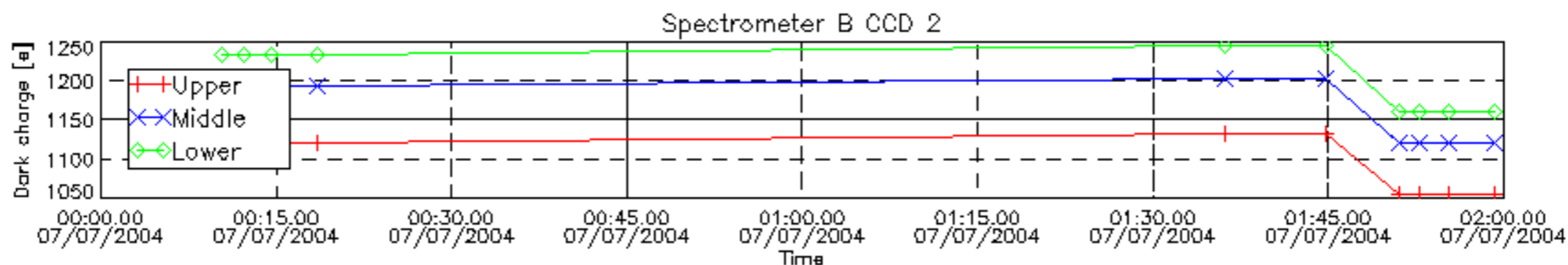
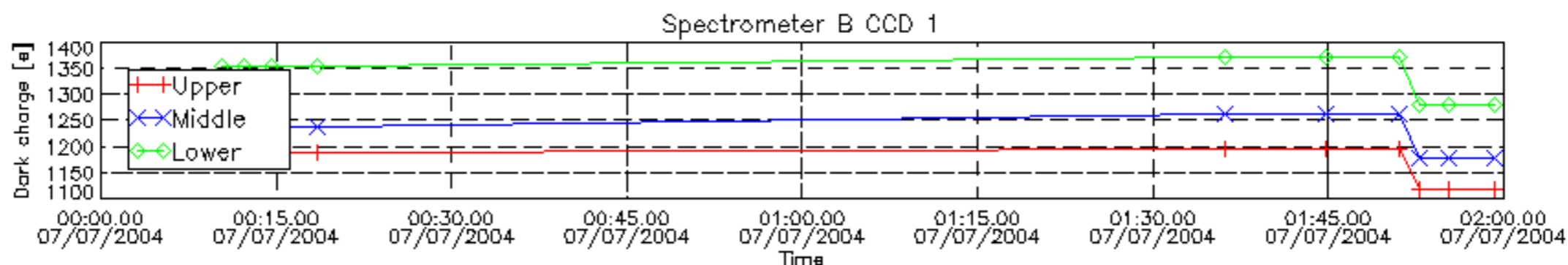
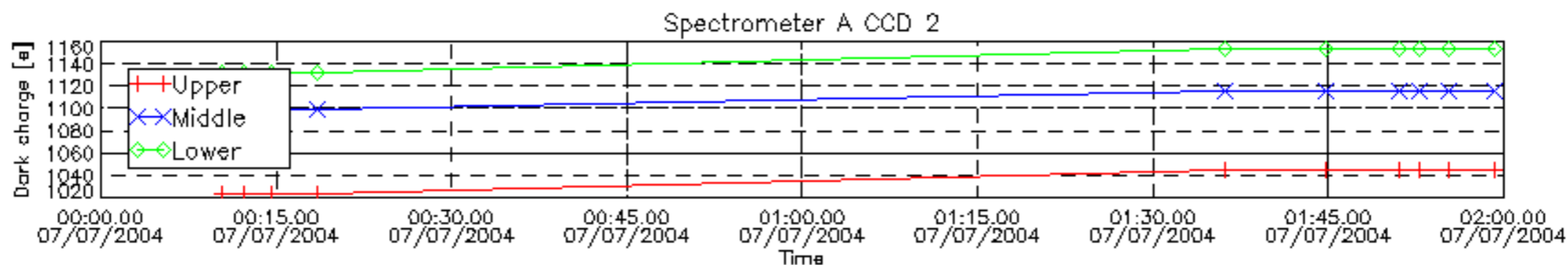
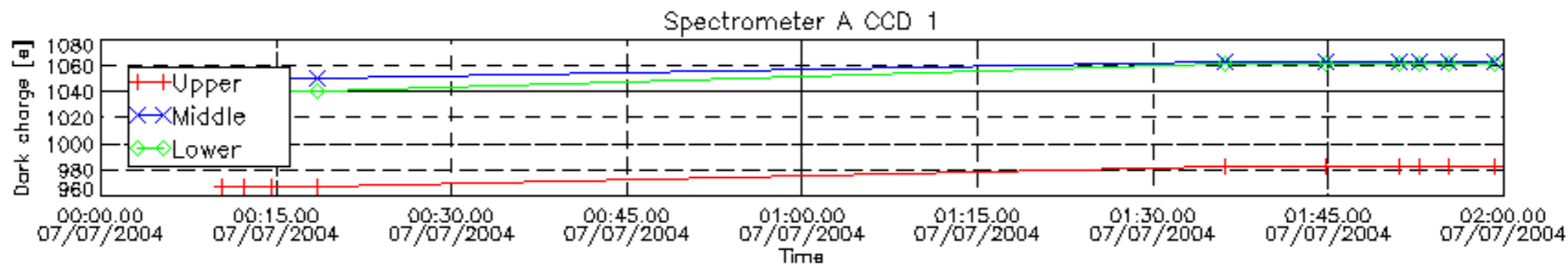


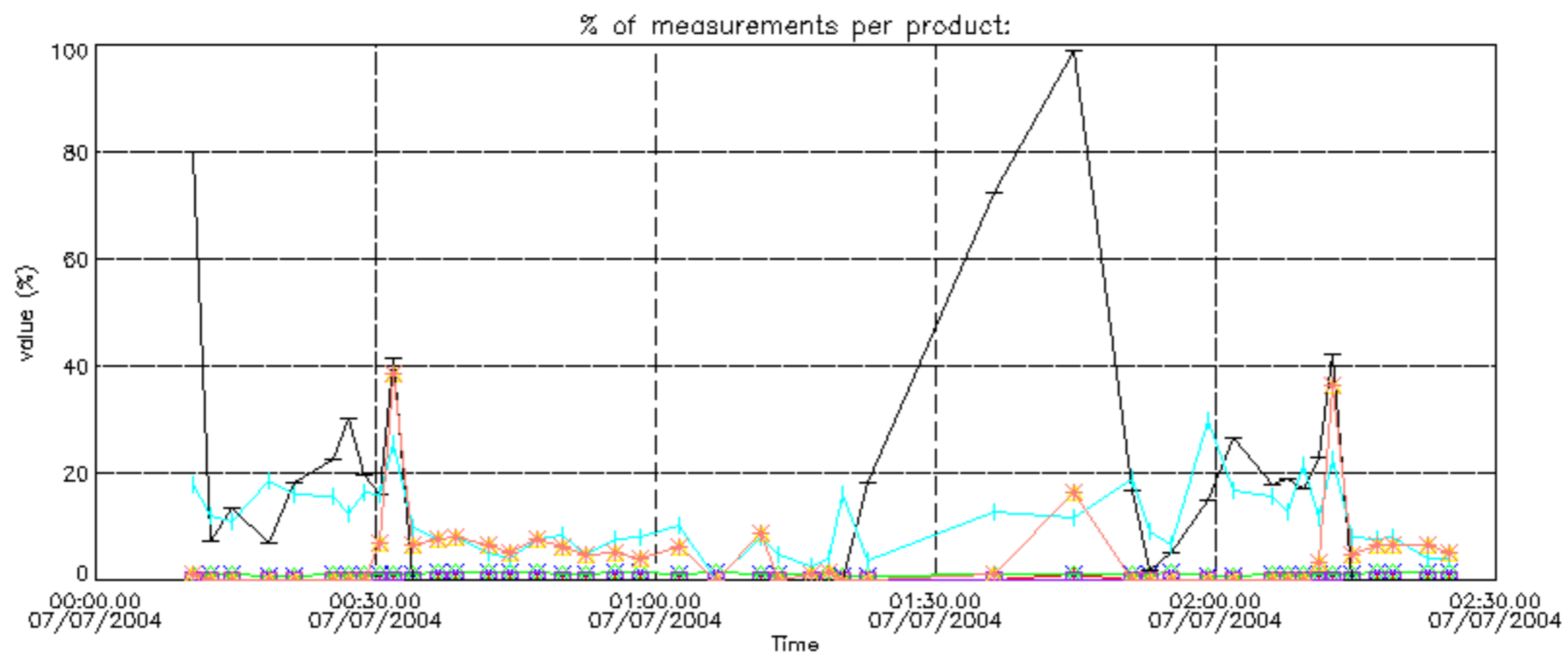
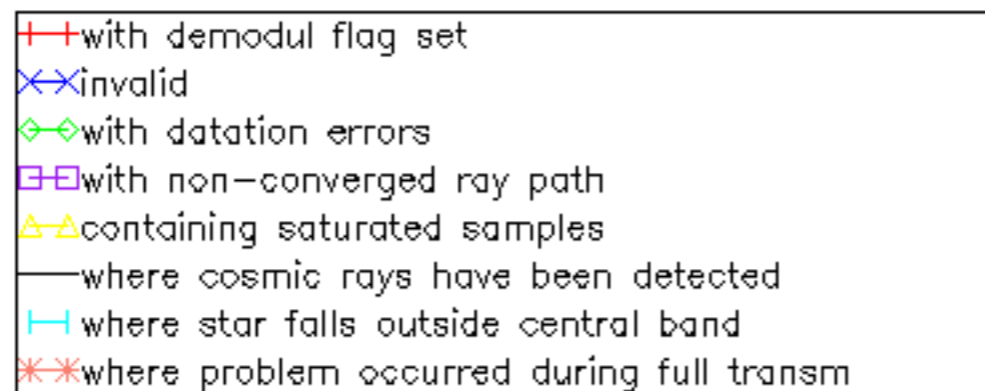
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

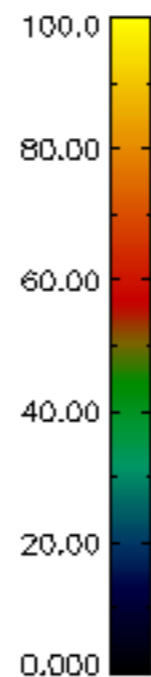
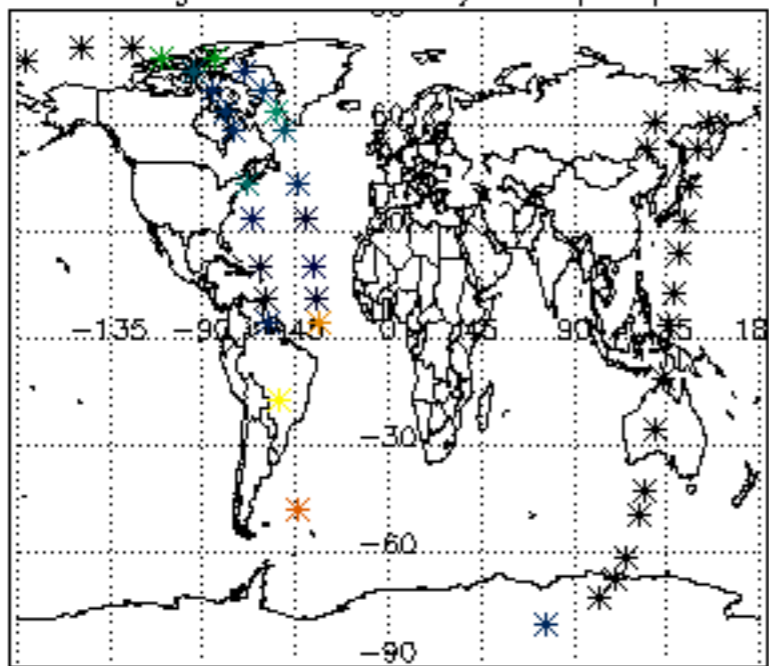
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.5	1446.6	1460.8	1446.3
St. deviation:	4.1471	5.2831	6.9161	7.5978
Maximum:	1525.0	1499.0	1503.0	1493.0
Minimum:	1448.0	1443.0	1438.0	1423.0
Number of data:	12850.	12850.	33500.	33500.



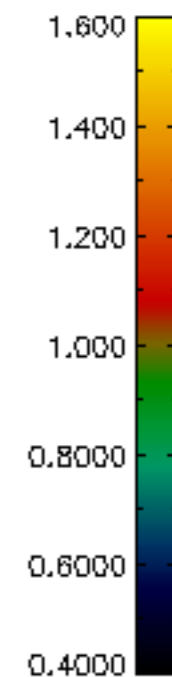
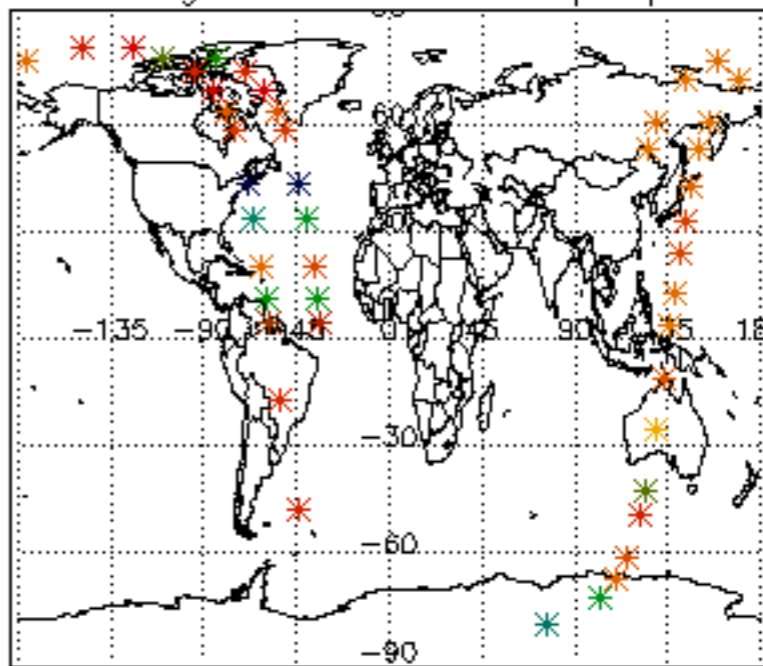




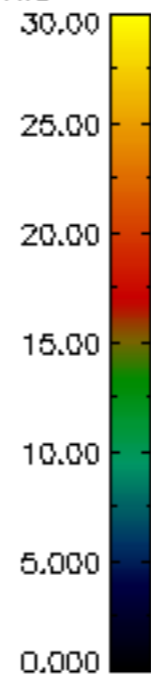
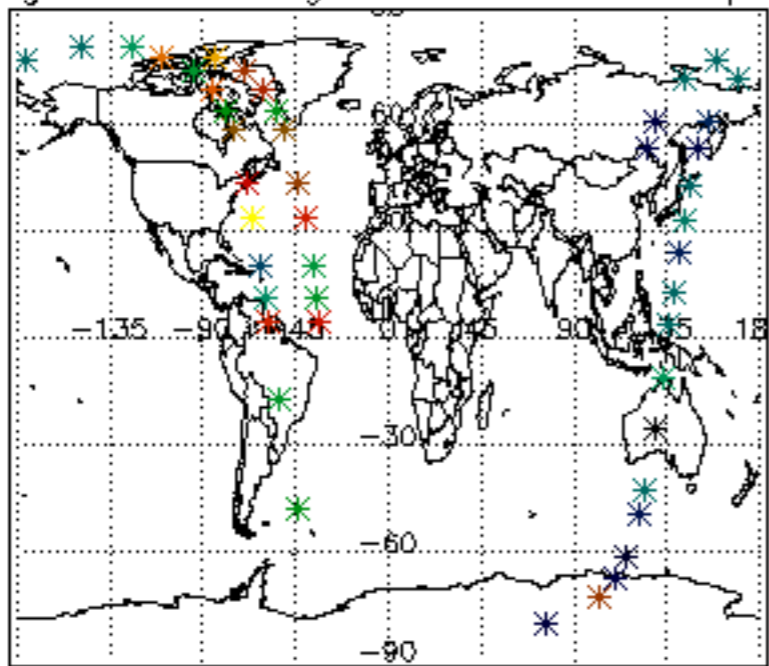
Percentage of cosmic ray hits per profile



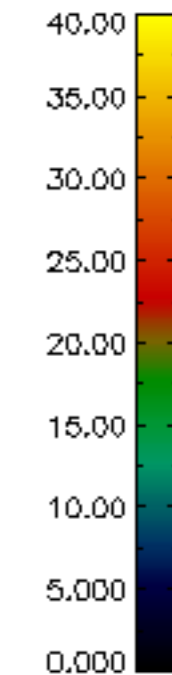
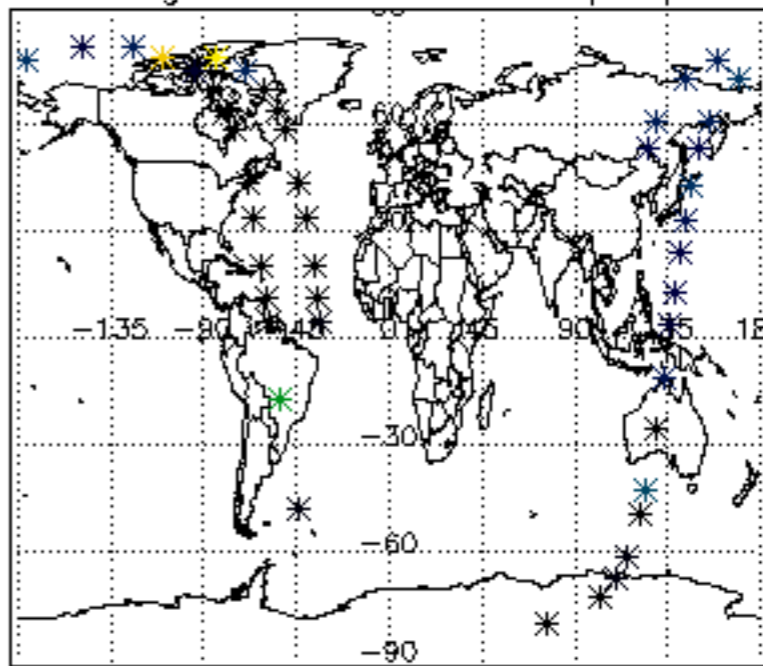
Percentage of datation errors per profile



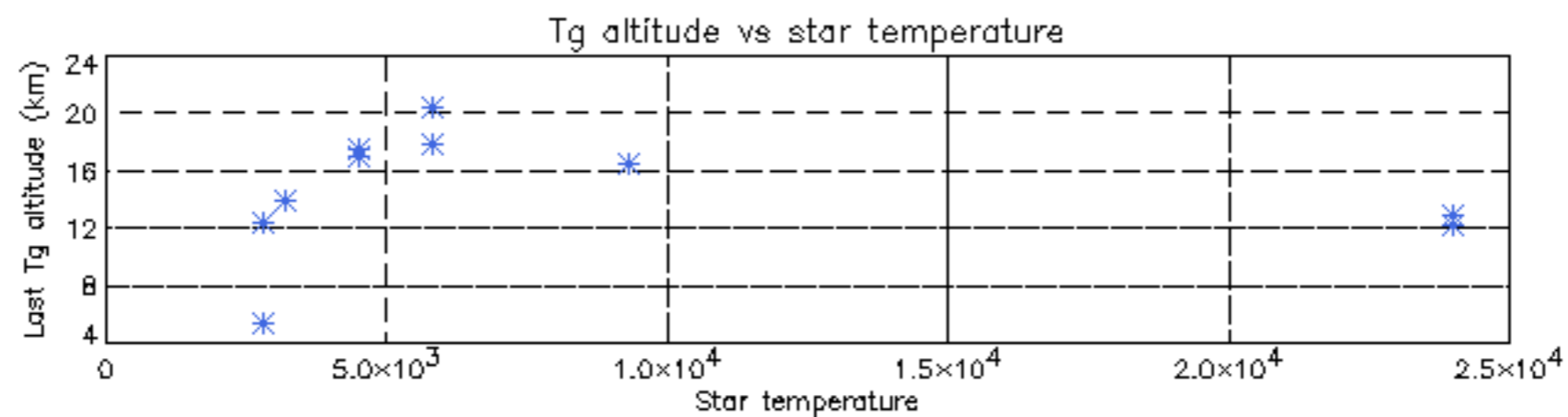
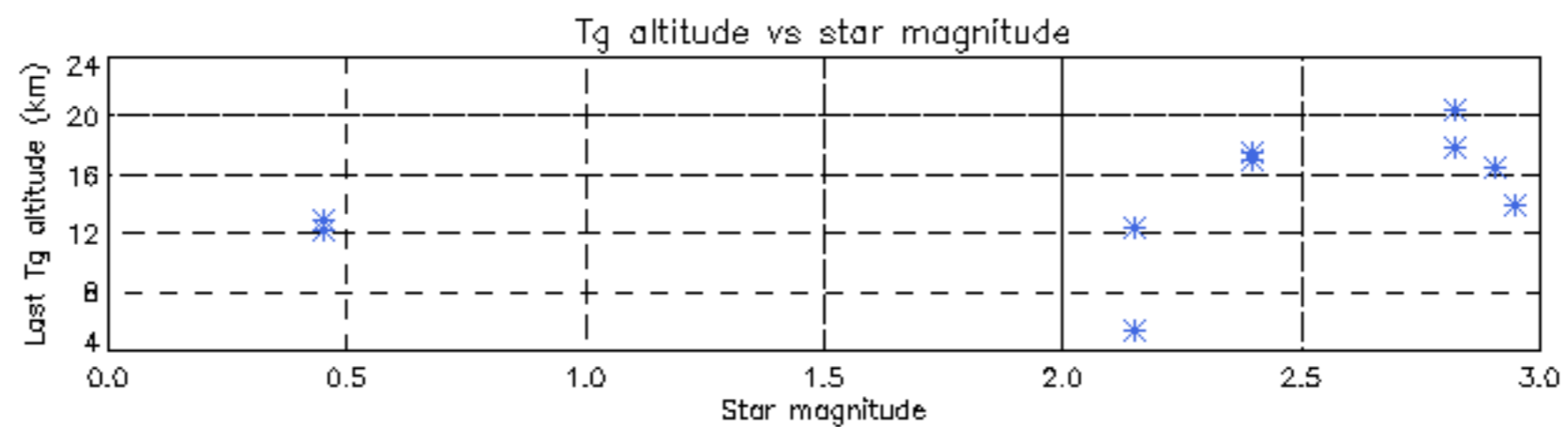
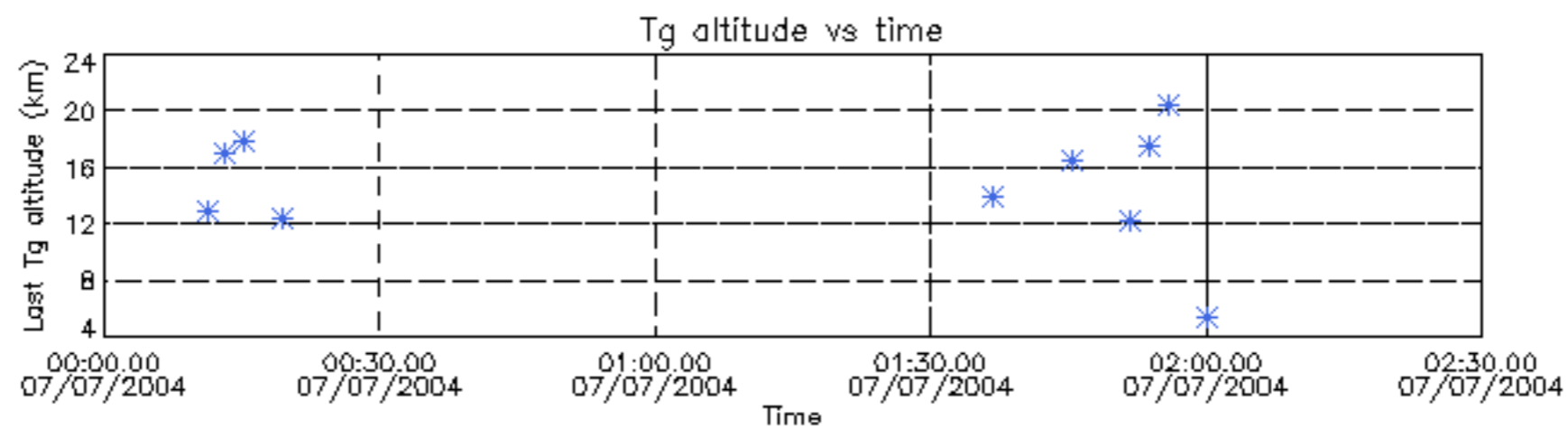
Percentage of star falling outside central band per profile



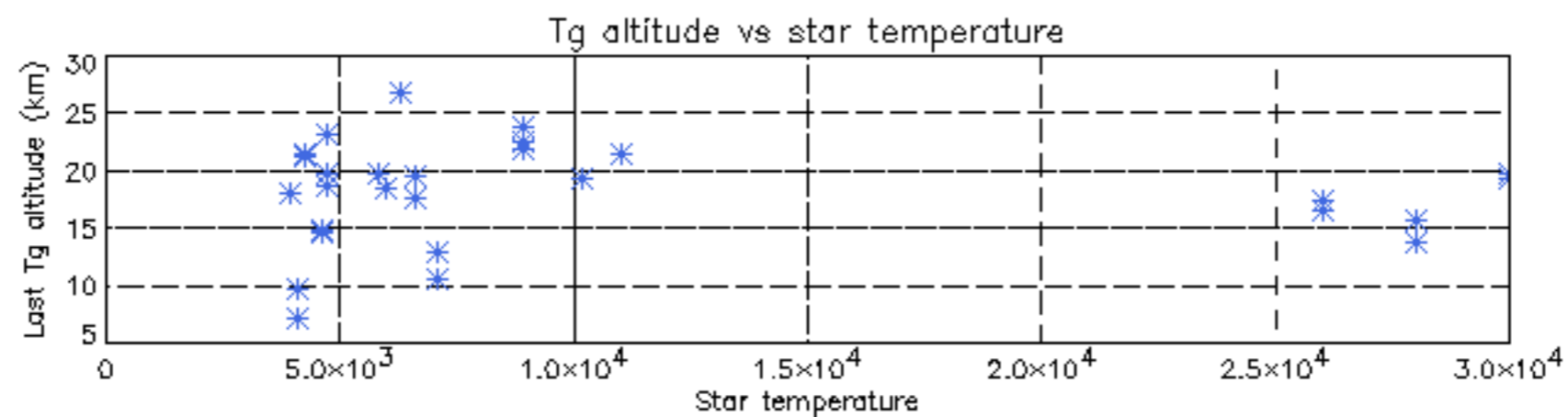
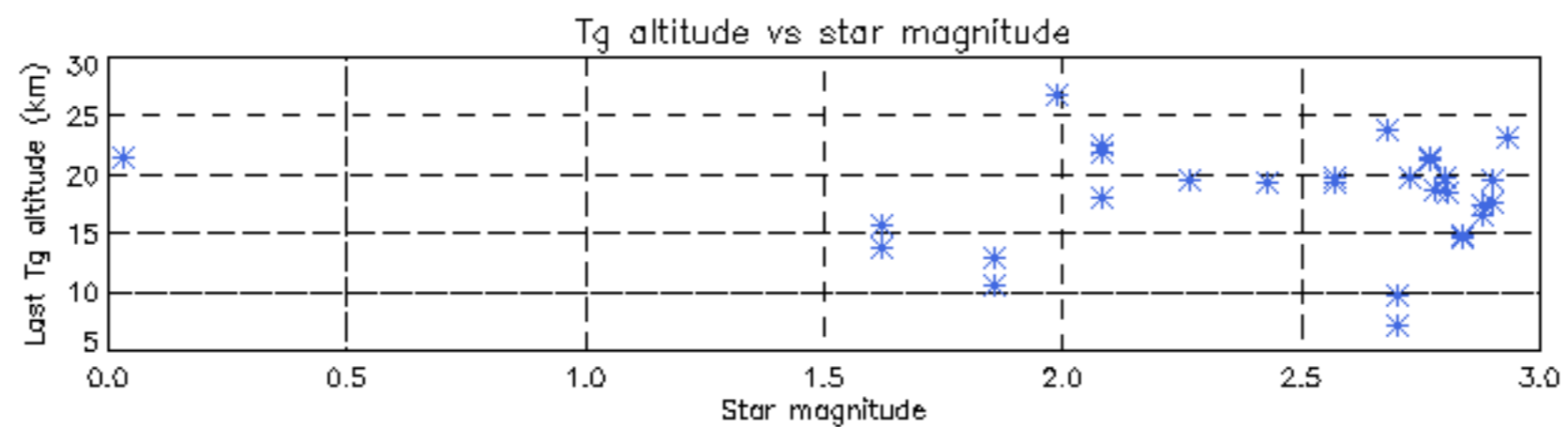
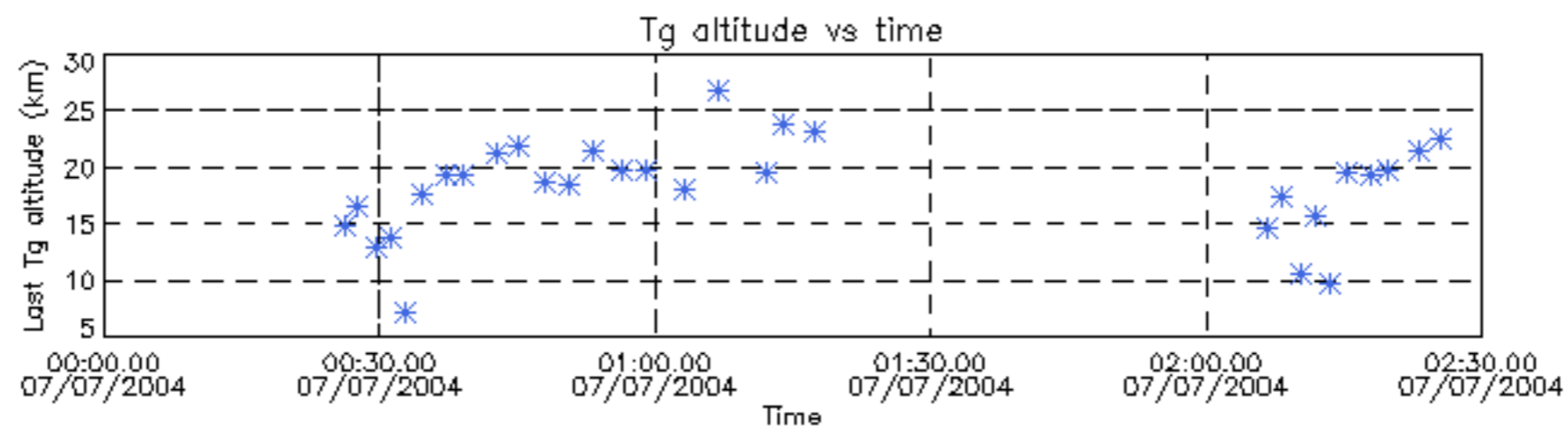
Percentage of saturation errors per profile



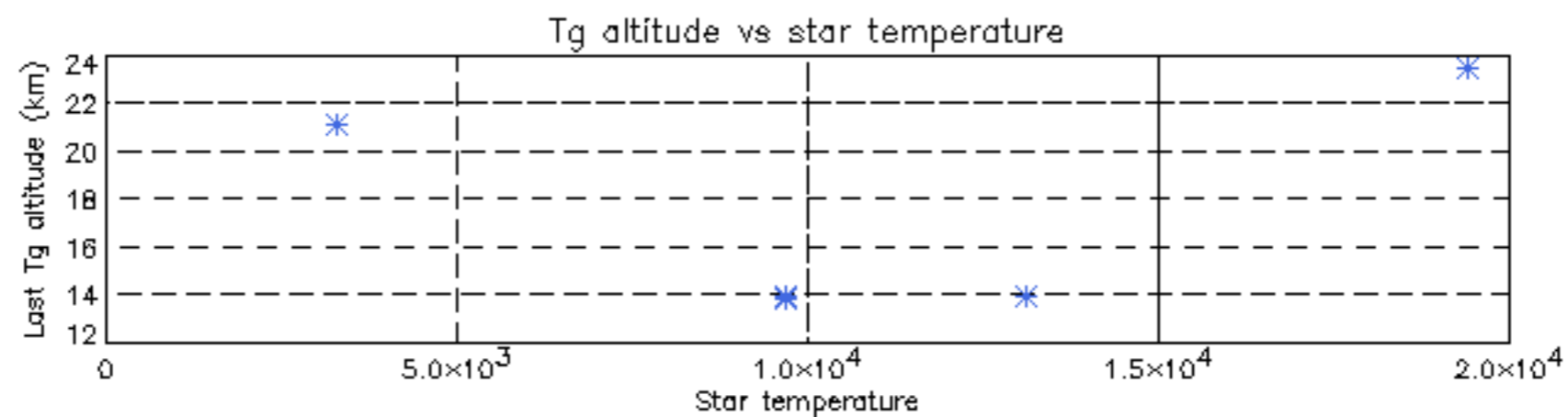
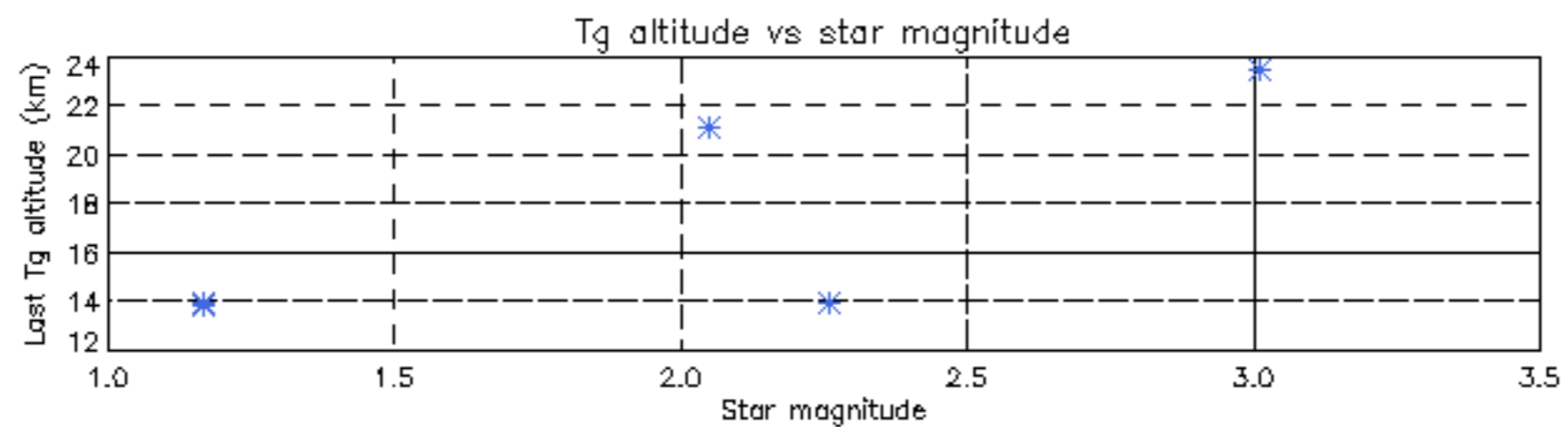
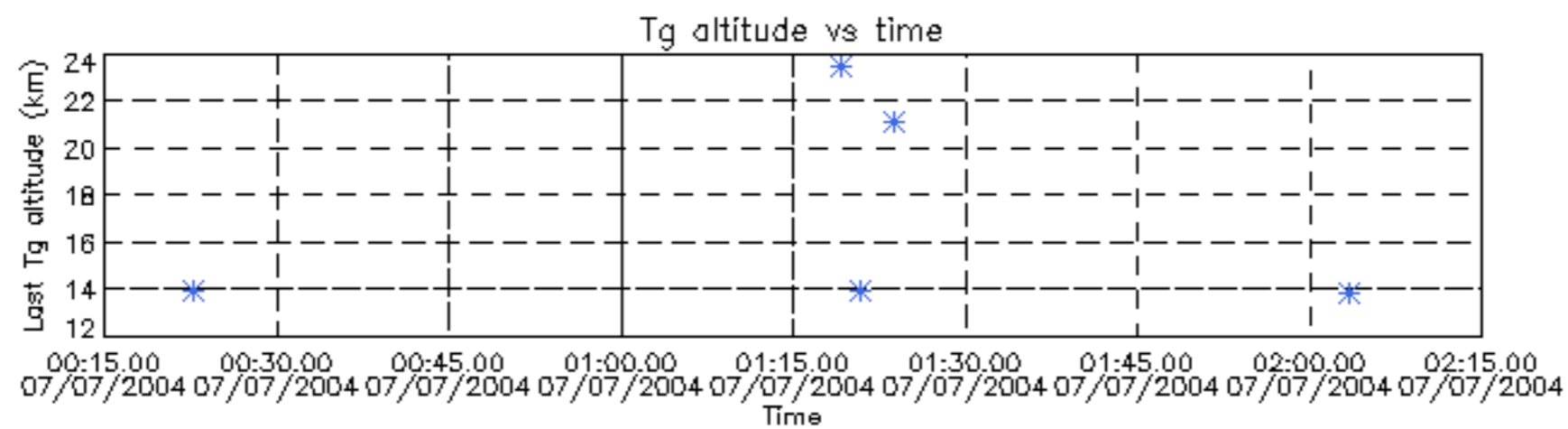
Tangent altitude at which the star is lost



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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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
12;	-162.7;	01-JUL-2004	03:16:00;	Dark	;	90.5;	52;	16Bet Cet	;	2.04;	4500;occ;	181;	0;	12210
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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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
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
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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
13; 38.7; 01-JUL-2004 04:59:58; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;12212
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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
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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2;-2162.7; 01-JUL-2004 06:03:52; Bright; 42.5; 110; 37Del Cas ; 2.68; 8900;occ; 85; 0;12212
3;-1975.1; 01-JUL-2004 06:07:00; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;12212
4;-1871.8; 01-JUL-2004 06:08:43; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;12212
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6;-1617.2; 01-JUL-2004 06:12:58; Dark ; 74.0; 53; 43Bet And ; 2.05; 3300;occ; 148; 0;12212
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
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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
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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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5; 317.7; 02-JUL-2004 01:11:48; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12224
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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	
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13;	-2592.2;	03-JUL-2004 08:14:41;	Bright;	37.5;	49;	1Alp UMi	;	1.99;	6300;occ;	75;	0;	12242	
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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
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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
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30;	642.7;	03-JUL-2004 09:08:36;	Dark	;	81.5;	18;	24Alp PsA	;	1.17;	9700;occ;	163;	0;	12243
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33;	1069.0;	03-JUL-2004 09:15:42;	Dark	;	41.5;	147;	Alp Ara	;	2.88;	26000;occ;	83;	0;	12243
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11;	-2719.5;	03-JUL-2004 09:53:10;	Bright;	47.5;	89;	5Alp Cep	;	2.45;	8000;occ;	95;	0;	12243	
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13;	-2272.5;	03-JUL-2004 10:00:37;	Bright;	50.0;	74;	11Bet Cas	;	2.27;	6600;occ;	100;	0;	12243	
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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
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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
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21; 3439.9; 22-JUL-2004 03:15:45; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;12511
22; 3586.1; 22-JUL-2004 03:18:11; Bright; 28.0; 74; 11Bet Cas ; 2.27; 6600;occ; 56; 0;12511
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3;	-2016.2;	22-JUL-2004	03:25:24;	Bright;	46.0;	160;	23Gam Per	;	2.93;	4700;occ;	92;	0;	12511	
4;	-1929.2;	22-JUL-2004	03:26:52;	Bright;	60.0;	35;	33Alp Per	;	1.79;	6250;occ;	120;	0;	12511	
5;	-1821.9;	22-JUL-2004	03:28:39;	Bright;	70.5;	73;	57Gam1And	;	2.26;	13100;occ;	141;	0;	12511	
6;	-1642.9;	22-JUL-2004	03:31:38;	Dark	;	156.0;	53;	43Bet And	;	2.05;	3300;occ;	312;	0;	12511
7;	-1389.1;	22-JUL-2004	03:35:52;	Dark	;	48.0;	146;	25Eta Tau	;	2.87;	15200;occ;	96;	0;	12511
8;	-1296.9;	22-JUL-2004	03:37:24;	Dark	;	57.0;	13;	87Alp Tau	;	0.87;	3800;occ;	114;	0;	12511
9;	-1168.7;	22-JUL-2004	03:39:32;	Dark	;	40.5;	27;	24Gam Ori	;	1.64;	26000;occ;	81;	0;	12511
10;	-1051.8;	22-JUL-2004	03:41:29;	Dark	;	38.0;	30;	46Eps Ori	;	1.69;	30000;occ;	76;	0;	12511
11;	-918.2;	22-JUL-2004	03:43:42;	Dark	;	52.0;	7;	19Bet Ori	;	0.10;	14000;occ;	104;	0;	12511
12;	-777.9;	22-JUL-2004	03:46:03;	Dark	;	44.5;	101;	11Alp Lep	;	2.58;	7000;occ;	89;	0;	12511
13;	-513.4;	22-JUL-2004	03:50:27;	Dark	;	41.5;	108;	Alp Col	;	2.65;	15200;occ;	83;	0;	12511
14;	-385.5;	22-JUL-2004	03:52:35;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12511
15;	-145.8;	22-JUL-2004	03:56:35;	Dark	;	45.5;	157;	The1Eri	;	2.91;	9300;occ;	91;	0;	12511
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17;	386.6;	22-JUL-2004	04:05:27;	Dark	;	42.0;	135;	Bet Hyi	;	2.82;	5800;occ;	84;	0;	12512
18;	651.6;	22-JUL-2004	04:09:52;	Dark	;	44.0;	148;	Alp Tuc	;	2.88;	4100;occ;	88;	0;	12512
19;	752.3;	22-JUL-2004	04:11:33;	Dark	;	53.5;	63;	Bet Gru	;	2.15;	2800;occ;	107;	0;	12512
20;	838.3;	22-JUL-2004	04:12:59;	Dark	;	54.0;	31;	Alp Gru	;	1.73;	15200;occ;	108;	0;	12512
21;	1013.9;	22-JUL-2004	04:15:55;	Dark	;	78.5;	18;	24Alp PsA	;	1.17;	9700;occ;	157;	0;	12512
22;	1262.3;	22-JUL-2004	04:20:03;	Dark	;	40.0;	178;	Iot1Sco	;	3.02;	6550;occ;	80;	0;	12512
23;	1336.5;	22-JUL-2004	04:21:17;	Dark	;	43.0;	38;	20Eps Sgr	;	1.84;	11000;occ;	86;	0;	12512
24;	1450.8;	22-JUL-2004	04:23:11;	Bright;	40.0;	57;	34Sig Sgr	;	2.07;	26000;occ;	80;	0;	12512	
25;	1555.7;	22-JUL-2004	04:24:56;	Bright;	68.5;	142;	49Del Cap	;	2.85;	8900;occ;	137;	0;	12512	
26;	2009.5;	22-JUL-2004	04:32:30;	Bright;	38.5;	126;	60Bet Oph	;	2.77;	4250;occ;	77;	0;	12512	
27;	2144.6;	22-JUL-2004	04:34:45;	Bright;	38.5;	168;	17Zet Aql	;	2.99;	11000;occ;	77;	0;	12512	
28;	2568.1;	22-JUL-2004	04:41:49;	Bright;	41.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	82;	0;	12512	
29;	2733.3;	22-JUL-2004	04:44:34;	Bright;	40.0;	144;	18Del Cyg	;	2.86;	11000;occ;	80;	0;	12512	
30;	2843.4;	22-JUL-2004	04:46:24;	Bright;	47.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	95;	0;	12512	
31;	2995.2;	22-JUL-2004	04:48:56;	Bright;	38.5;	119;	14Eta Dra	;	2.73;	4700;occ;	77;	0;	12512	
32;	3154.4;	22-JUL-2004	04:51:35;	Bright;	44.0;	89;	5Alp Cep	;	2.45;	8000;occ;	88;	0;	12512	
33;	3440.9;	22-JUL-2004	04:56:22;	Bright;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	12512	
34;	3584.4;	22-JUL-2004	04:58:45;	Bright;	53.5;	74;	11Bet Cas	;	2.27;	6600;occ;	107;	0;	12512	
35;	3683.9;	22-JUL-2004	05:00:25;	Bright;	3.5;	76;	27Gam Cas	;	2.30;	30000;occ;	7;	0;	12512	
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2;	-2017.0;	22-JUL-2004	05:06:00;	Bright;	45.0;	160;	23Gam Per	;	2.93;	4700;occ;	90;	0;	12512	
3;	-1930.4;	22-JUL-2004	05:07:26;	Bright;	47.0;	35;	33Alp Per	;	1.79;	6250;occ;	94;	0;	12512	
4;	-1822.8;	22-JUL-2004	05:09:14;	Bright;	72.0;	73;	57Gam1And	;	2.26;	13100;occ;	144;	0;	12512	
5;	-1643.4;	22-JUL-2004	05:12:13;	Dark	;	138.0;	53;	43Bet And	;	2.05;	3300;occ;	276;	0;	12512
6;	-1388.5;	22-JUL-2004	05:16:28;	Dark	;	50.0;	146;	25Eta Tau	;	2.87;	15200;occ;	100;	0;	12512
7;	-1294.9;	22-JUL-2004	05:18:02;	Dark	;	53.0;	13;	87Alp Tau	;	0.87;	3800;occ;	106;	0;	12512
8;	-1167.4;	22-JUL-2004	05:20:09;	Dark	;	39.0;	27;	24Gam Ori	;	1.64;	26000;occ;	78;	0;	12512
9;	-1051.9;	22-JUL-2004	05:22:05;	Dark	;	39.0;	30;	46Eps Ori	;	1.69;	30000;occ;	78;	0;	12512
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11;	-775.2;	22-JUL-2004	05:26:42;	Dark	;	43.0;	101;	11Alp Lep	;	2.58;	7000;occ;	86;	0;	12512
12;	-513.1;	22-JUL-2004	05:31:04;	Dark	;	40.5;	108;	Alp Col	;	2.65;	15200;occ;	81;	0;	12512
13;	-385.0;	22-JUL-2004	05:33:12;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12512
14;	-145.8;	22-JUL-2004	05:37:11;	Dark	;	46.0;	157;	The1Eri	;	2.91;	9300;occ;	92;	0;	12512
15;	214.0;	22-JUL-2004	05:43:11;	Dark	;	44.0;	9;	Alp Eri	;	0.45;	24000;occ;	88;	0;	12513
16;	388.7;	22-JUL-2004	05:46:05;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	12513
17;	653.1;	22-JUL-2004	05:50:30;	Dark	;	46.0;	148;	Alp Tuc	;	2.88;	4100;occ;	92;	0;	12513
18;	753.4;	22-JUL-2004	05:52:10;	Dark	;	53.0;	63;	Bet Gru	;	2.15;	2800;occ;	106;	0;	12513
19;	839.1;	22-JUL-2004	05:53:36;	Dark	;	47.5;	31;	Alp Gru	;	1.73;	15200;occ;	95;	0;	12513
20;	1012.6;	22-JUL-2004	05:56:29;	Dark	;	84.5;	18;	24Alp PsA	;	1.17;	9700;occ;	169;	0;	12513
21;	1262.5;	22-JUL-2004	06:00:39;	Dark	;	40.5;	178;	Iot1Sco	;	3.02;	6550;occ;	81;	0;	12513
22;	1337.9;	22-JUL-2004	06:01:55;	Dark	;	43.5;	38;	20Eps Sgr	;	1.84;	11000;occ;	87;	0;	12513
23;	1451.5;	22-JUL-2004	06:03:48;	Bright;	40.0;	57;	34Sig Sgr	;	2.07;	26000;occ;	80;	0;	12513	
24;	1556.0;	22-JUL-2004	06:05:33;	Bright;	65.0;	142;	49Del Cap	;	2.85;	8900;occ;	130;	0;	12513	
25;	2010.3;	22-JUL-2004	06:13:07;	Bright;	38.0;	126;	60Bet Oph	;	2.77;	4250;occ;	76;	0;	12513	
26;	2144.9;	22-JUL-2004	06:15:22;	Bright;	40.0;	168;	17Zet Aql	;	2.99;	11000;occ;	80;	0;	12513	
27;	2568.2;	22-JUL-2004	06:22:25;	Bright;	42.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	84;	0;	12513	
28;	2733.4;	22-JUL-2004	06:25:10;	Bright;	40.0;	144;	18Del Cyg	;	2.86;	11000;occ;	80;	0;	12513	
29;	2843.1;	22-JUL-2004	06:27:00;	Bright;	47.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	95;	0;	12513	
30;	2995.7;	22-JUL-2004	06:29:32;	Bright;	38.5;	119;	14Eta Dra	;	2.73;	4700;occ;	77;	0;	12513	
31;	3154.2;	22-JUL-2004	06:32:11;	Bright;	43.5;	89;	5Alp Cep	;	2.45;	8000;occ;	87;	0;	12513	
32;	3441.1;	22-JUL-2004	06:36:58;	Bright;	38.0;	49;	1Alp UMi	;	1.99;	6300;occ;	76;	0;	12513	
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 5;-1823.1; 22-JUL-2004 06:49:50; Bright; 69.0; 73; 57Gam1And ; 2.26; 13100;occ; 138; 0;12513
 6;-1643.5; 22-JUL-2004 06:52:49; Dark ; 170.5; 53; 43Bet And ; 2.05; 3300;occ; 341; 0;12513
 7;-1388.7; 22-JUL-2004 06:57:04; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 0;12513
 8;-1293.5; 22-JUL-2004 06:58:39; Dark ; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;12513
 9;-1167.3; 22-JUL-2004 07:00:45; Dark ; 39.5; 27; 24Gam Ori ; 1.64; 26000;occ; 79; 0;12513
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 12; -774.6; 22-JUL-2004 07:07:18; Dark ; 42.5; 101; 11Alp Lep ; 2.58; 7000;occ; 85; 0;12513
 13; -512.9; 22-JUL-2004 07:11:40; Dark ; 40.5; 108; Alp Col ; 2.65; 15200;occ; 81; 0;12513
 14; -384.5; 22-JUL-2004 07:13:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12513
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 16; 214.8; 22-JUL-2004 07:23:48; Dark ; 56.0; 9; Alp Eri ; 0.45; 24000;occ; 112; 0;12514
 17; 389.5; 22-JUL-2004 07:26:42; Dark ; 40.5; 135; Bet Hyi ; 2.82; 5800;occ; 81; 0;12514
 18; 653.6; 22-JUL-2004 07:31:06; Dark ; 45.0; 148; Alp Tuc ; 2.88; 4100;occ; 90; 0;12514
 19; 754.4; 22-JUL-2004 07:32:47; Dark ; 65.0; 63; Bet Gru ; 2.15; 2800;occ; 130; 0;12514
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 21; 1013.5; 22-JUL-2004 07:37:06; Dark ; 94.5; 18; 24Alp PsA ; 1.17; 9700;occ; 189; 0;12514
 22; 1262.6; 22-JUL-2004 07:41:15; Dark ; 41.0; 178; Iot1Sco ; 3.02; 6550;occ; 82; 0;12514
 23; 1338.0; 22-JUL-2004 07:42:31; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;12514
 24; 1452.1; 22-JUL-2004 07:44:25; Bright; 38.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 77; 0;12514
 25; 1556.1; 22-JUL-2004 07:46:09; Bright; 66.5; 142; 49Del Cap ; 2.85; 8900;occ; 133; 0;12514

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 5;-3193.5; 22-JUL-2004 08:07:35; Bright; 47.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 95; 0;12514
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 13;-1823.0; 22-JUL-2004 08:30:26; Bright; 67.0; 73; 57Gam1And ; 2.26; 13100;occ; 134; 0;12514
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 19; -914.8; 22-JUL-2004 08:45:34; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;12514
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 23; -144.1; 22-JUL-2004 08:58:24; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;12514
 24; 215.5; 22-JUL-2004 09:04:24; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;12515
 25; 389.7; 22-JUL-2004 09:07:18; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;12515
 26; 654.6; 22-JUL-2004 09:11:43; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;12515
 27; 754.9; 22-JUL-2004 09:13:23; Dark ; 57.0; 63; Bet Gru ; 2.15; 2800;occ; 114; 0;12515
 28; 840.4; 22-JUL-2004 09:14:49; Dark ; 52.5; 31; Alp Gru ; 1.73; 15200;occ; 105; 0;12515
 29; 1014.5; 22-JUL-2004 09:17:43; Dark ; 84.5; 18; 24Alp PsA ; 1.17; 9700;occ; 169; 0;12515
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 32; 1556.1; 22-JUL-2004 09:26:45; Bright; 67.5; 142; 49Del Cap ; 2.85; 8900;occ; 135; 0;12515

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 6;-3039.9; 22-JUL-2004 09:50:45; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;12515
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27; 1843.1; 26-JUL-2004 04:03:52; Bright; 64.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 129; 0;12569
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```

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4;-3978.8; 31-JUL-2004 16:34:44; Bright; 39.5; 11; 53Alp Aql ; 0.76; 8000;occ; 79; 0;12648
5;-3893.2; 31-JUL-2004 16:36:09; Bright; 37.5; 168; 17Zet Aql ; 2.99; 11000;occ; 75; 0;12648
6;-3468.3; 31-JUL-2004 16:43:14; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;12648
7;-3387.4; 31-JUL-2004 16:44:35; Bright; 44.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 88; 0;12648
8;-3241.1; 31-JUL-2004 16:47:02; Bright; 39.5; 69; 33Gam Dra ; 2.23; 3800;occ; 79; 0;12648
9;-3001.3; 31-JUL-2004 16:51:01; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;12648
10;-2751.9; 31-JUL-2004 16:55:11; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;12648
11;-2596.6; 31-JUL-2004 16:57:46; Bright; 39.5; 49; 1Alp UMi ; 1.99; 6300;occ; 79; 0;12648
12;-2439.6; 31-JUL-2004 17:00:23; Bright; 49.0; 76; 27Gam Cas ; 2.30; 30000;occ; 98; 0;12648
13;-2057.7; 31-JUL-2004 17:06:45; Bright; 64.0; 160; 23Gam Per ; 2.93; 4700;occ; 128; 0;12648
14;-1880.9; 31-JUL-2004 17:09:42; Bright; 82.5; 73; 57Gam1And ; 2.26; 13100;occ; 165; 0;12648
15;-1713.0; 31-JUL-2004 17:12:30; Dark ; 250.0; 53; 43Bet And ; 2.05; 3300;occ; 500; 0;12648
16;-1398.8; 31-JUL-2004 17:17:44; Dark ; 42.5; 176; 23Zet Tau ; 3.02; 22000;occ; 85; 0;12648
17;-1247.4; 31-JUL-2004 17:20:15; Dark ; 63.0; 13; 87Alp Tau ; 0.87; 3800;occ; 126; 0;12648
18;-1127.3; 31-JUL-2004 17:22:15; Dark ; 45.5; 27; 24Gam Ori ; 1.64; 26000;occ; 91; 0;12648
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23; -581.1; 31-JUL-2004 17:31:21; Dark ; 39.5; 177; 1Zet CMa ; 3.02; 26000;occ; 79; 0;12648
24; -482.6; 31-JUL-2004 17:33:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12648
25; -209.6; 31-JUL-2004 17:37:33; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;12648
26; -25.9; 31-JUL-2004 17:40:37; Dark ; 48.0; 157; The1Eri ; 2.91; 9300;occ; 96; 0;12648
27; 305.4; 31-JUL-2004 17:46:08; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;12649
28; 421.3; 31-JUL-2004 17:48:04; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;12649
29; 590.5; 31-JUL-2004 17:50:53; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;12649
30; 716.2; 31-JUL-2004 17:52:59; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;12649
31; 917.5; 31-JUL-2004 17:56:20; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;12649

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