

GOMOS Daily Report 10-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	12JUL2004 04:01:24
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (10JUL2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (11JUL2004 00:00:00)

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

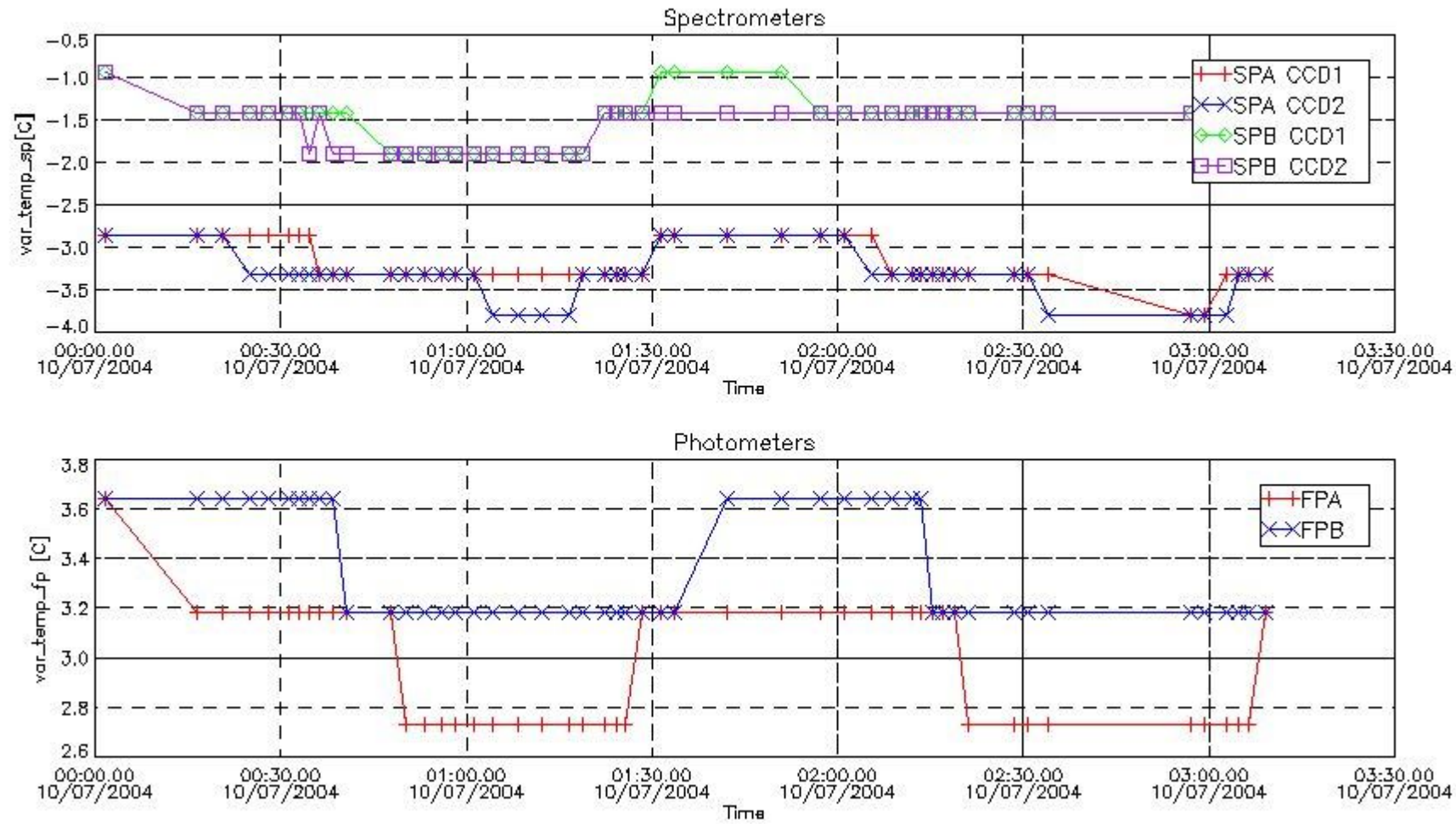
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040710_000135_000000422028_00259_12337_0000.N1	10-JUL-2004 00:01:35	Dark	42.000	165	34Gam Eri	2.9500	3200.0	84	12337	Yes
GOM_TRA_1PNPDE20040710_001633_000000472028_00260_12338_0001.N1	10-JUL-2004 00:16:33	Dark	46.500	9	Alp Eri	0.45300	24000.	93	12338	No
GOM_TRA_1PNPDE20040710_002033_000000402028_00260_12338_0002.N1	10-JUL-2004 00:20:33	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	12338	No
GOM_TRA_1PNPDE20040710_002457_000000662028_00260_12338_0003.N1	10-JUL-2004 00:24:57	Twilight	65.500	63	Bet Gru	2.1500	2800.0	131	12338	No
GOM_TRA_1PNPDE20040710_002804_000000892028_00260_12338_0004.N1	10-JUL-2004 00:28:04	Twilight	88.500	18	24Alp PsA	1.1660	9700.0	177	12338	No
GOM_TRA_1PNPDE20040710_003120_000000422028_00260_12338_0005.N1	10-JUL-2004 00:31:20	Bright	42.000	141	Bet Ara	2.8400	4600.0	84	12338	No
GOM_TRA_1PNPDE20040710_003252_000000392028_00260_12338_0006.N1	10-JUL-2004 00:32:52	Bright	39.000	147	Alp Ara	2.8770	26000.	78	12338	No
GOM_TRA_1PNPDE20040710_003442_000000442028_00260_12338_0007.N1	10-JUL-2004 00:34:42	Bright	44.000	40	The Sco	1.8590	7100.0	88	12338	No
GOM_TRA_1PNPDE20040710_003621_000000412028_00260_12338_0008.N1	10-JUL-2004 00:36:21	Bright	40.500	25	35Lam Sco	1.6200	28000.	81	12338	No
GOM_TRA_1PNPDE20040710_003825_000000432028_00260_12338_0009.N1	10-JUL-2004 00:38:25	Bright	42.500	57	34Sig Sgr	2.0660	26000.	85	12338	No
GOM_TRA_1PNPDE20040710_004032_000001042028_00260_12338_0010.N1	10-JUL-2004 00:40:32	Bright	104.00	142	49Del Cap	2.8500	8900.0	208	12338	No
GOM_TRA_1PNPDE20040710_004752_000000392028_00260_12338_0011.N1	10-JUL-2004 00:47:52	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	12338	No
GOM_TRA_1PNPDE20040710_005009_000000382028_00260_12338_0012.N1	10-JUL-2004 00:50:09	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	12338	No
GOM_TRA_1PNPDE20040710_005318_000000402028_00260_12338_0013.N1	10-JUL-2004 00:53:18	Bright	39.500	127	27Bet Her	2.7810	4700.0	79	12338	No
GOM_TRA_1PNPDE20040710_005552_000000412028_00260_12338_0014.N1	10-JUL-2004 00:55:52	Bright	40.500	133	40Zet Her	2.8070	6000.0	81	12338	No
GOM_TRA_1PNPDE20040710_005806_000000402028_00260_12338_0015.N1	10-JUL-2004 00:58:06	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	12338	No
GOM_TRA_1PNPDE20040710_010115_000000382028_00260_12338_0016.N1	10-JUL-2004 01:01:15	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	12338	No
GOM_TRA_1PNPDE20040710_010407_000000422028_00260_12338_0017.N1	10-JUL-2004 01:04:07	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	12338	No
GOM_TRA_1PNPDE20040710_010819_000000402028_00260_12338_0018.N1	10-JUL-2004 01:08:19	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	12338	No
GOM_TRA_1PNPDE20040710_011208_000000412028_00260_12338_0019.N1	10-JUL-2004 01:12:08	Bright	41.000	49	1Alp UMi	1.9900	6300.0	82	12338	No
GOM_TRA_1PNPDE20040710_011635_000000522028_00260_12338_0020.N1	10-JUL-2004 01:16:35	Bright	51.500	74	11Bet Cas	2.2680	6600.0	103	12338	No
GOM_TRA_1PNPDE20040710_011838_000000452028_00260_12338_0021.N1	10-JUL-2004 01:18:38	Bright	45.000	110	37Del Cas	2.6780	8900.0	90	12338	No
GOM_TRA_1PNPDE20040710_012218_000000422028_00260_12338_0022.N1	10-JUL-2004 01:22:18	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	12338	No
GOM_TRA_1PNPDE20040710_012413_000000432028_00260_12338_0023.N1	10-JUL-2004 01:24:13	Twilight	43.000	175	39Del Per	3.0100	19400.	86	12338	No
GOM_TRA_1PNPDE20040710_012541_000000562028_00260_12338_0024.N1	10-JUL-2004 01:25:41	Twilight	55.500	73	57Gam1And	2.2600	13100.	111	12338	No
GOM_TRA_1PNPDE20040710_012825_000000902028_00260_12338_0025.N1	10-JUL-2004 01:28:25	Twilight	89.500	53	43Bet And	2.0480	3300.0	179	12338	No
GOM_TRA_1PNPDE20040710_013129_000000482028_00260_12338_0026.N1	10-JUL-2004 01:31:29	Twilight	47.500	146	25Eta Tau	2.8730	15200.	95	12338	No
GOM_TRA_1PNPDE20040710_013341_000000652028_00260_12338_0027.N1	10-JUL-2004 01:33:41	Dark	64.500	50	13Alp Ari	2.0070	4250.0	129	12338	No
GOM_TRA_1PNPDE20040710_014212_000000452028_00260_12338_0000.N1	10-JUL-2004 01:42:12	Dark	44.500	165	34Gam Eri	2.9500	3200.0	89	12338	No
GOM_TRA_1PNPDE20040710_015058_000000422028_00260_12338_0001.N1	10-JUL-2004 01:50:58	Dark	41.500	157	The1Eri	2.9060	9300.0	83	12338	No
GOM_TRA_1PNPDE20040710_015709_000000532028_00261_12339_0002.N1	10-JUL-2004 01:57:09	Dark	52.500	9	Alp Eri	0.45300	24000.	105	12339	No
GOM_TRA_1PNPDE20040710_020109_000000402028_00261_12339_0003.N1	10-JUL-2004 02:01:09	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	12339	No
GOM_TRA_1PNPDE20040710_020534_000000602028_00261_12339_0004.N1	10-JUL-2004 02:05:34	Twilight	59.500	63	Bet Gru	2.1500	2800.0	119	12339	No
GOM_TRA_1PNPDE20040710_020842_000000882028_00261_12339_0005.N1	10-JUL-2004 02:08:42	Twilight	88.000	18	24Alp PsA	1.1660	9700.0	176	12339	No
GOM_TRA_1PNPDE20040710_021157_000000422028_00261_12339_0006.N1	10-JUL-2004 02:11:57	Bright	41.500	141	Bet Ara	2.8400	4600.0	83	12339	No
GOM_TRA_1PNPDE20040710_021327_000000402028_00261_12339_0007.N1	10-JUL-2004 02:13:27	Bright	40.000	147	Alp Ara	2.8770	26000.	80	12339	No
GOM_TRA_1PNPDE20040710_021518_000000422028_00261_12339_0008.N1	10-JUL-2004 02:15:18	Bright	42.000	40	The Sco	1.8590	7100.0	84	12339	No
GOM_TRA_1PNPDE20040710_021657_000000452028_00261_12339_0009.N1	10-JUL-2004 02:16:57	Bright	44.500	25	35Lam Sco	1.6200	28000.	89	12339	No
GOM_TRA_1PNPDE20040710_021901_000000442028_00261_12339_0010.N1	10-JUL-2004 02:19:01	Bright	43.500	57	34Sig Sgr	2.0660	26000.	87	12339	No
GOM_TRA_1PNPDE20040710_022108_000001022028_00261_12339_0011.N1	10-JUL-2004 02:21:08	Bright	102.00	142	49Del Cap	2.8500	8900.0	204	12339	No
GOM_TRA_1PNPDE20040710_022827_000000392028_00261_12339_0012.N1	10-JUL-2004 02:28:27	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	12339	No
GOM_TRA_1PNPDE20040710_023043_000000422028_00261_12339_0013.N1	10-JUL-2004 02:30:43	Bright	41.500	59	55Alp Oph	2.0800	8900.0	83	12339	No
GOM_TRA_1PNPDE20040710_023353_000000392028_00261_12339_0014.N1	10-JUL-2004 02:33:53	Bright	39.000	127	27Bet Her	2.7810	4700.0	78	12339	No
GOM_TRA_1PNPDE20040710_025710_000000512028_00261_12339_0000.N1	10-JUL-2004 02:57:10	Bright	50.500	74	11Bet Cas	2.2680	6600.0	101	12339	No
GOM_TRA_1PNPDE20040710_025914_000000522028_00261_12339_0001.N1	10-JUL-2004 02:59:14	Bright	51.500	110	37Del Cas	2.6780	8900.0	103	12339	No
GOM_TRA_1PNPDE20040710_030253_000000422028_00261_12339_0002.N1	10-JUL-2004 03:02:53	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	12339	No
GOM_TRA_1PNPDE20040710_030449_000000402028_00261_12339_0003.N1	10-JUL-2004 03:04:49	Twilight	40.000	175	39Del Per	3.0100	19400.	80	12339	No
GOM_TRA_1PNPDE20040710_030616_000000612028_00261_12339_0004.N1	10-JUL-2004 03:06:16	Twilight	61.000	73	57Gam1And	2.2600	13100.	122	12339	No
GOM_TRA_1PNPDE20040710_030901_000000942028_00261_12339_0005.N1	10-JUL-2004 03:09:01	Twilight	93.500	53	43Bet And	2.0480	3300.0	187	12339	No

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



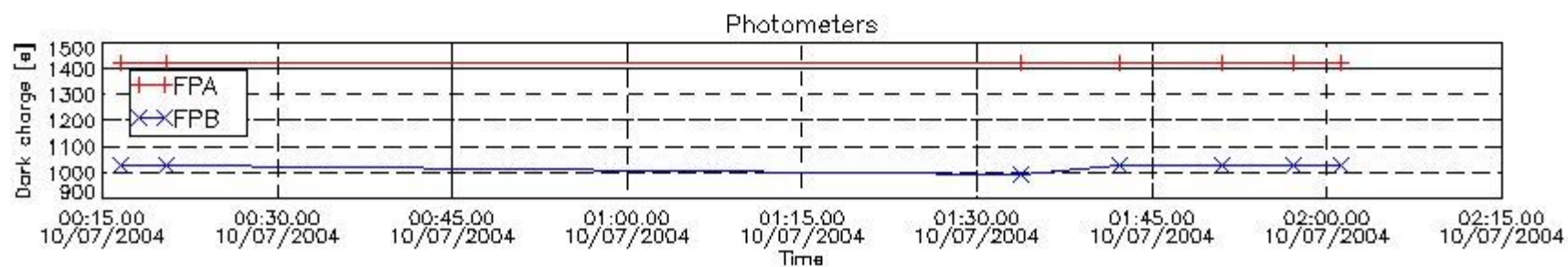
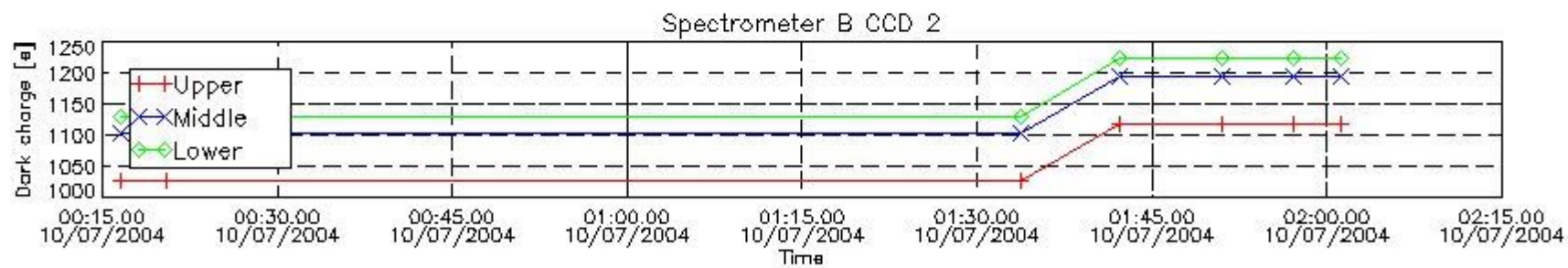
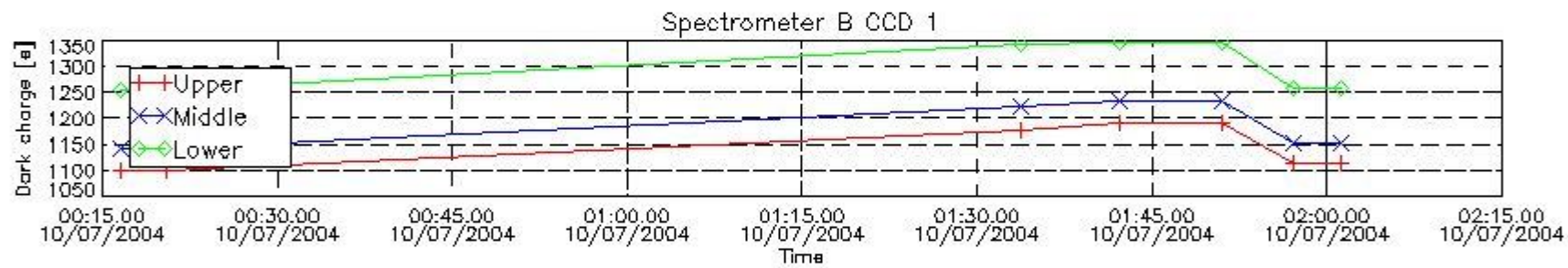
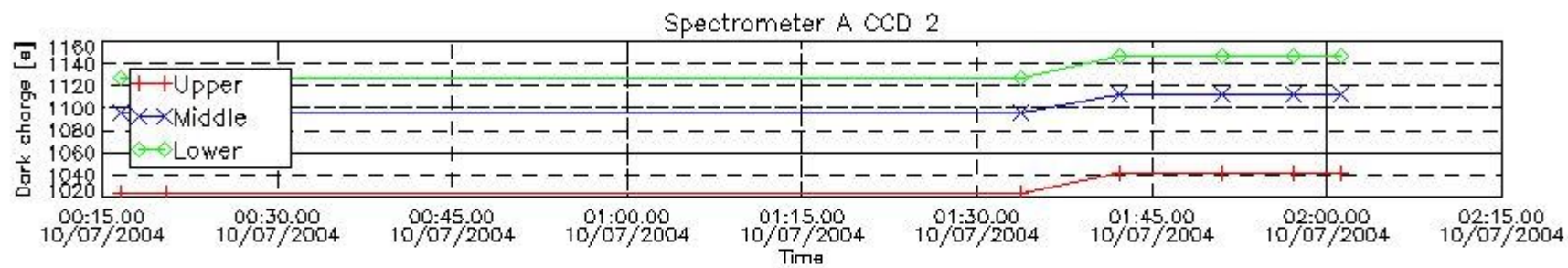
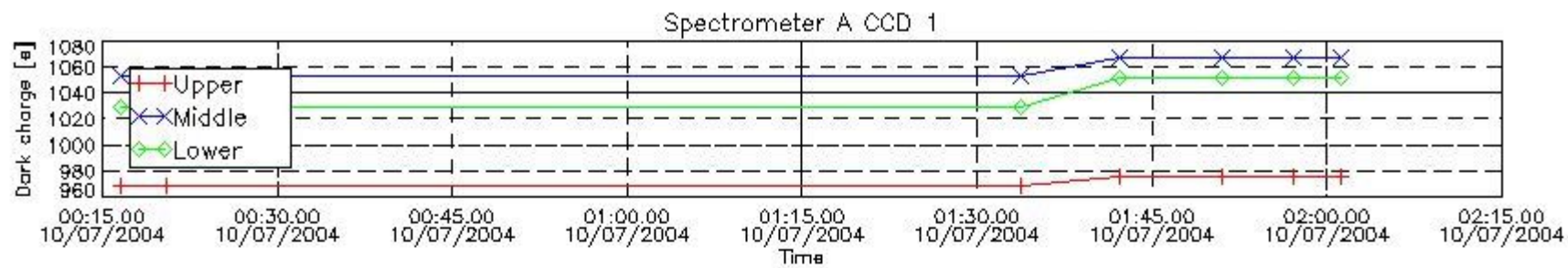
4. Overview of dark signal processing per product

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



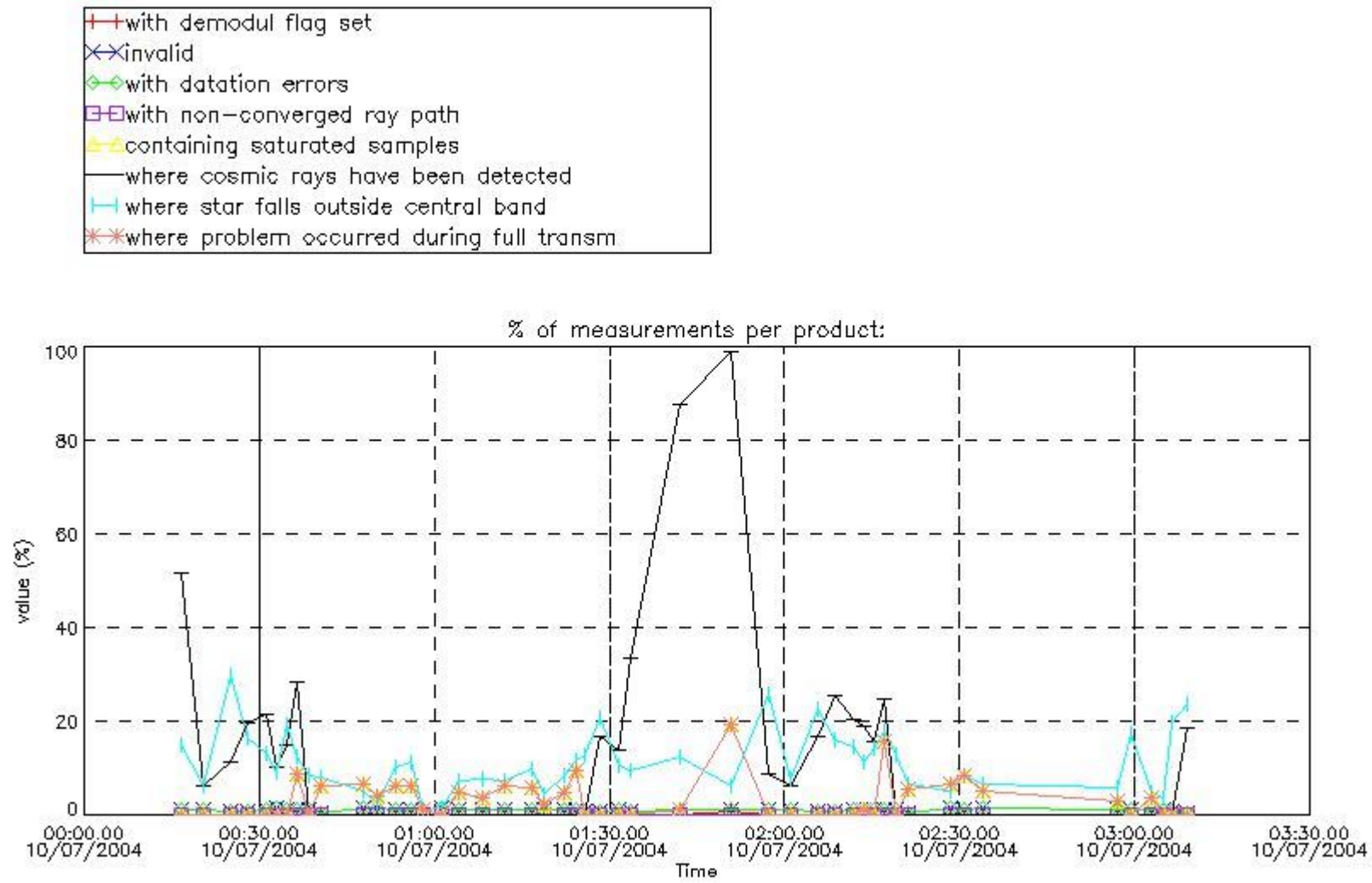
5. Demodulation flag and quality information monitoring

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:

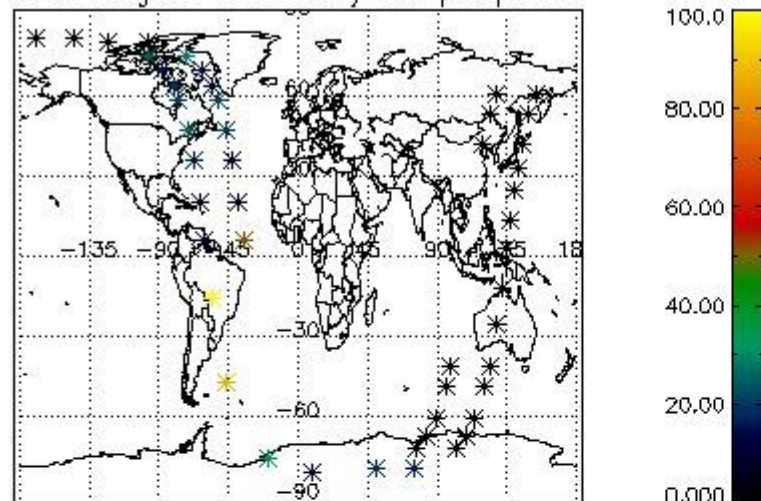
At least one measurement with demodulation flag set:	6.25000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

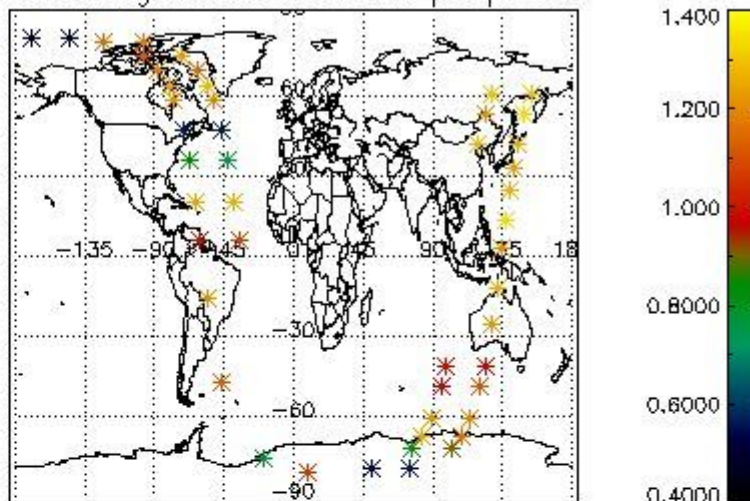


5.3 Plot quality information per product (world map)

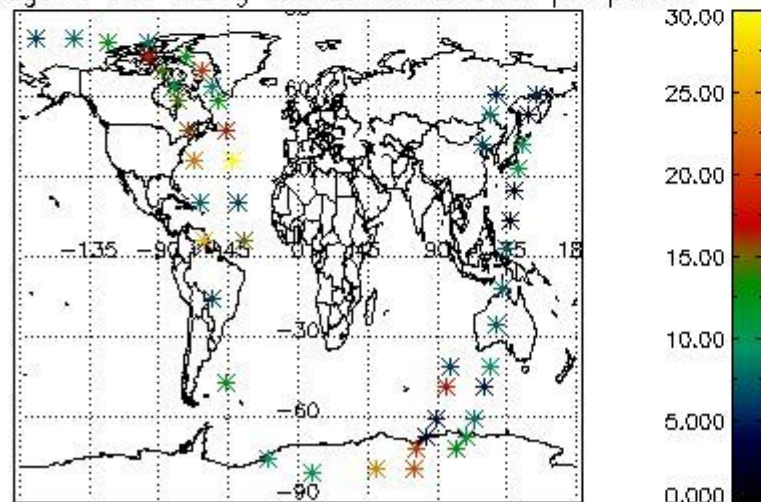
Percentage of cosmic ray hits per profile



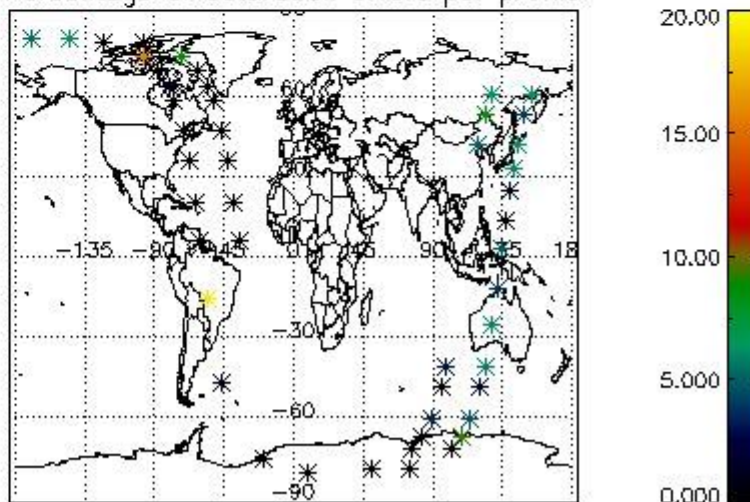
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



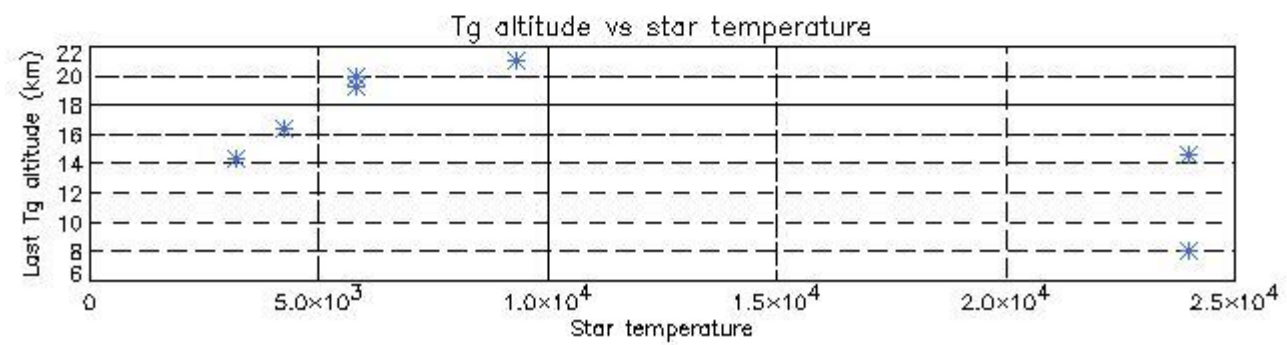
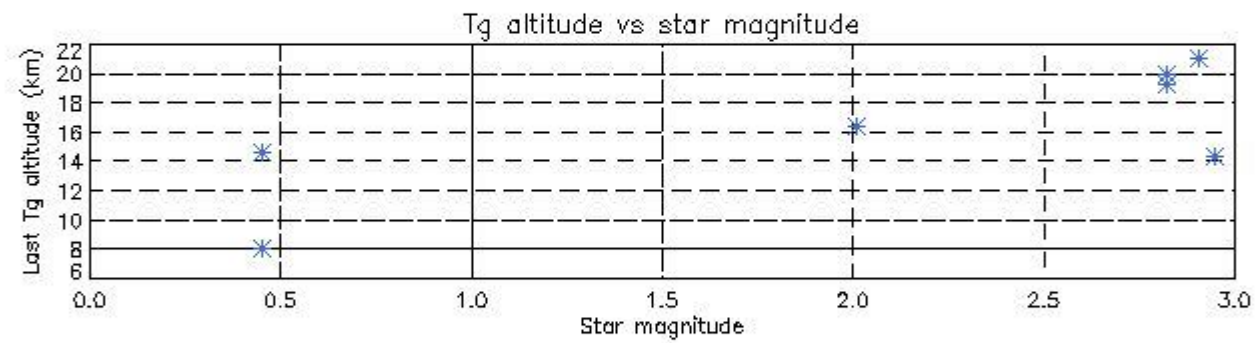
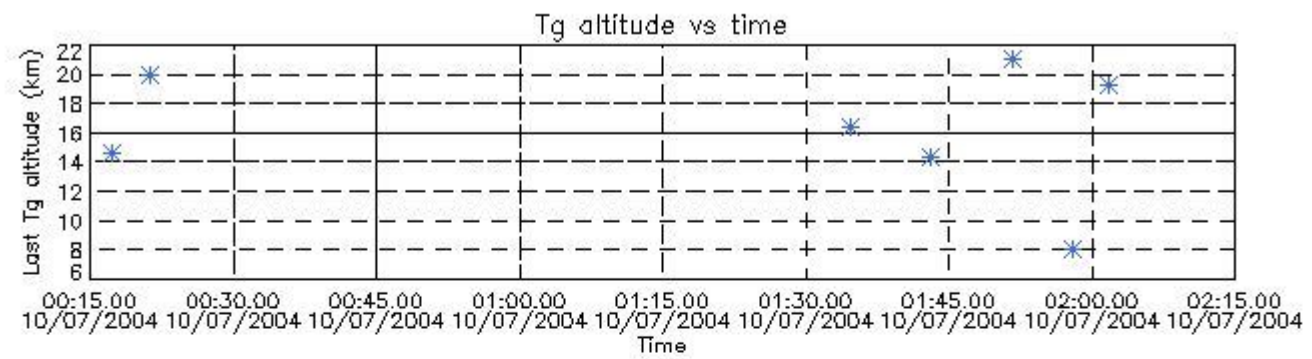
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.247	18.835	13.446
St. deviation:	4.4737	3.0858	4.5582
Maximum:	20.981	24.805	23.201
Minimum:	7.9836	12.213	5.7986
Number of data:	7.0000	30.000	11.000

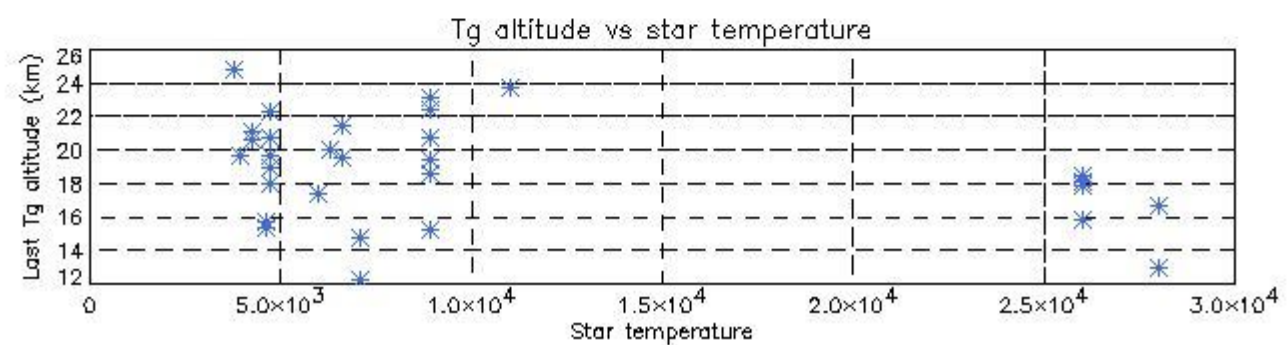
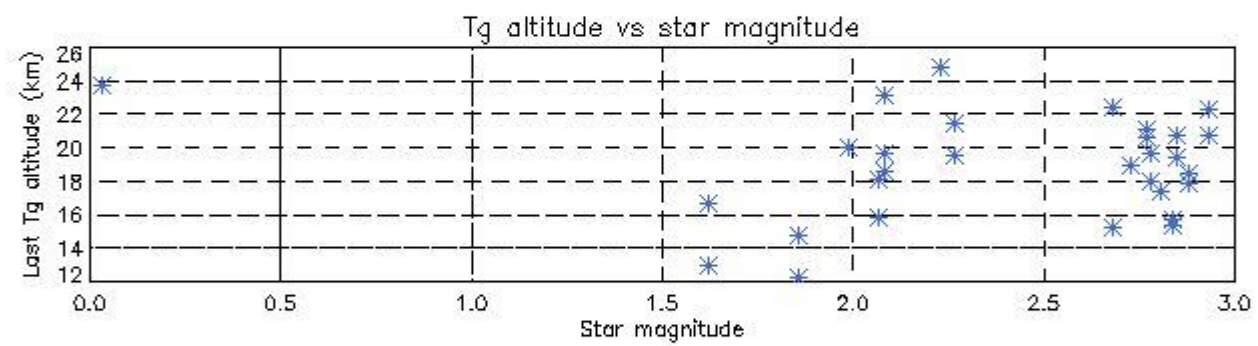
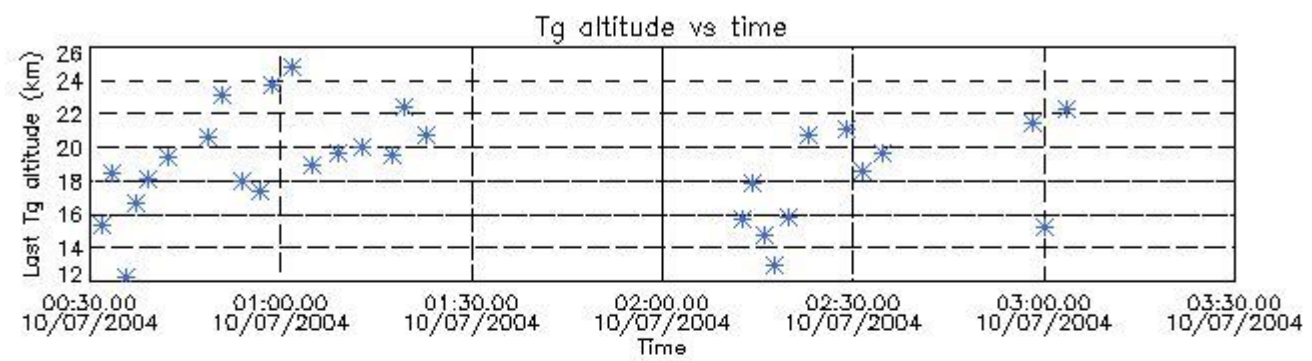
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



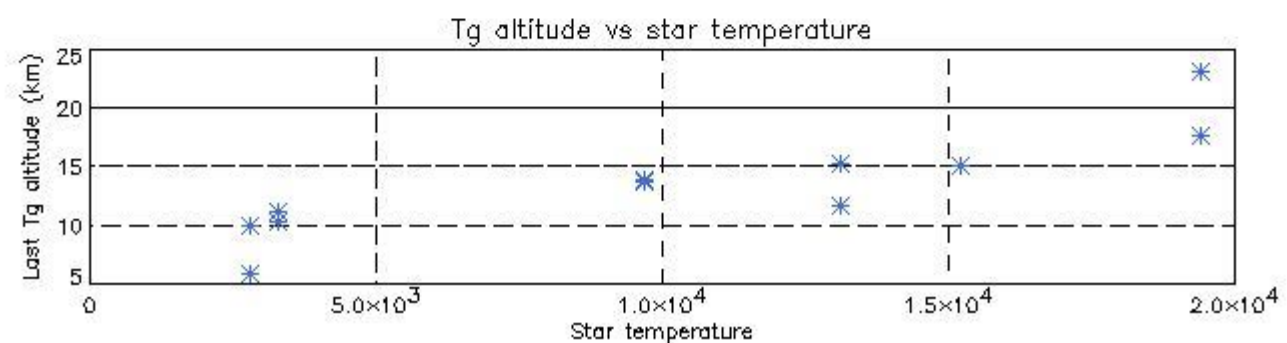
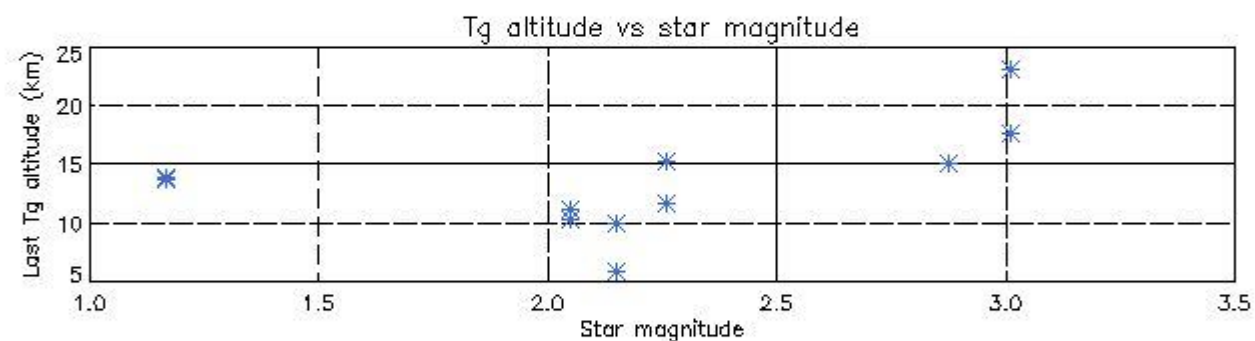
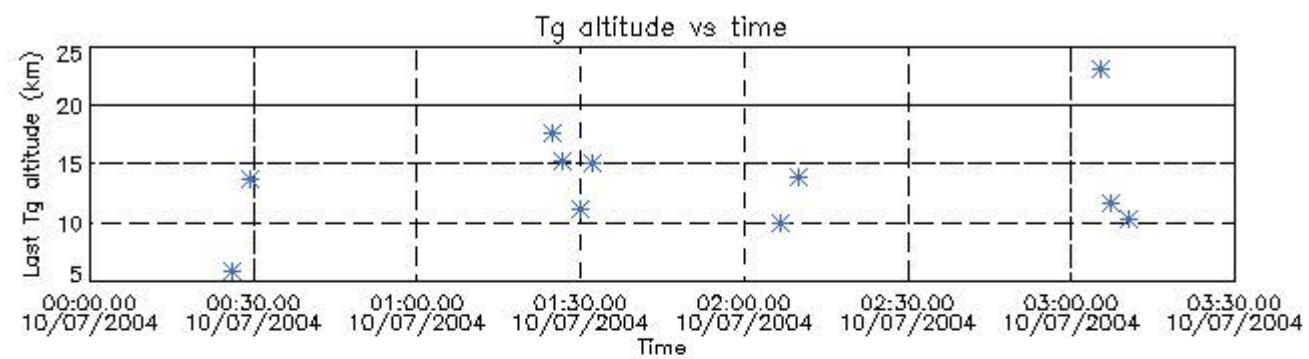
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

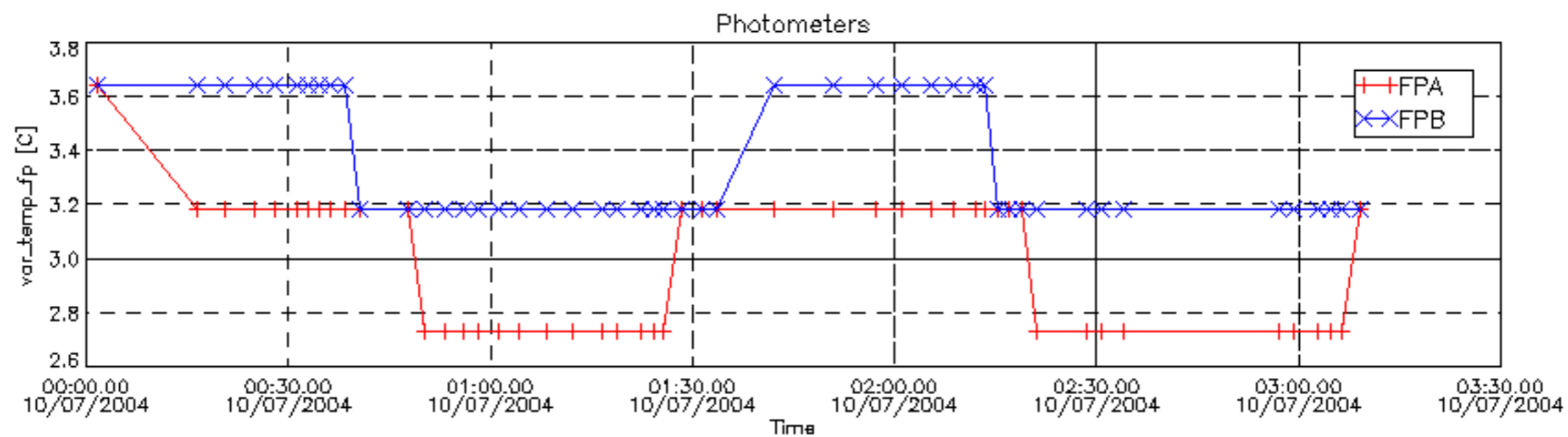
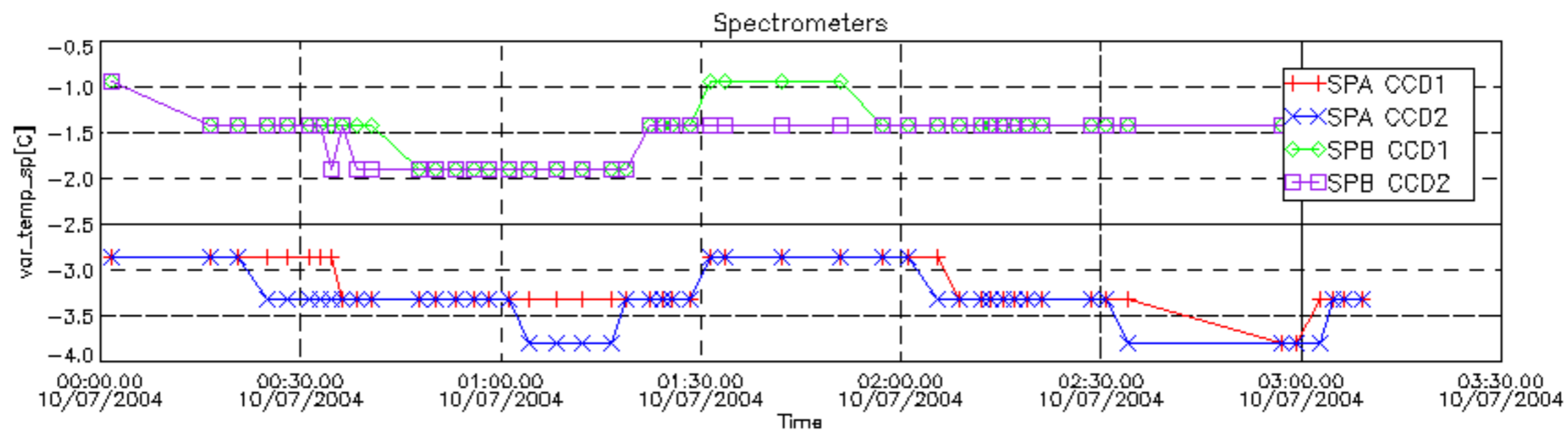
Tangent altitude at which the star is lost

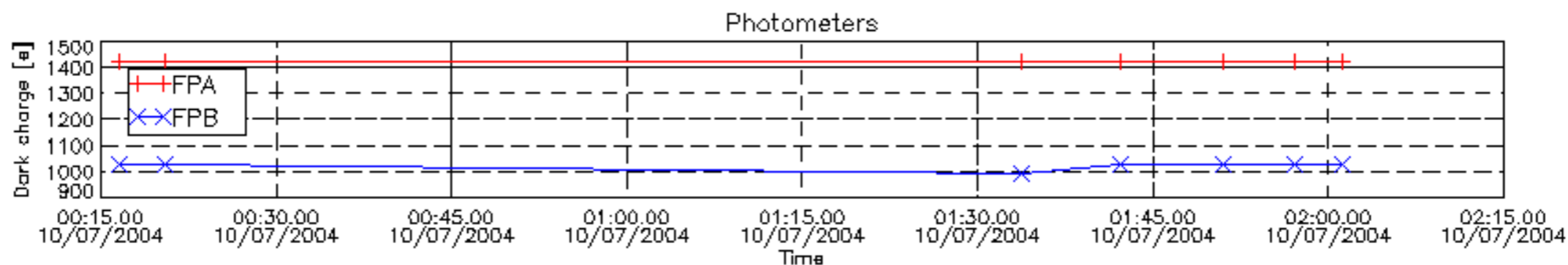
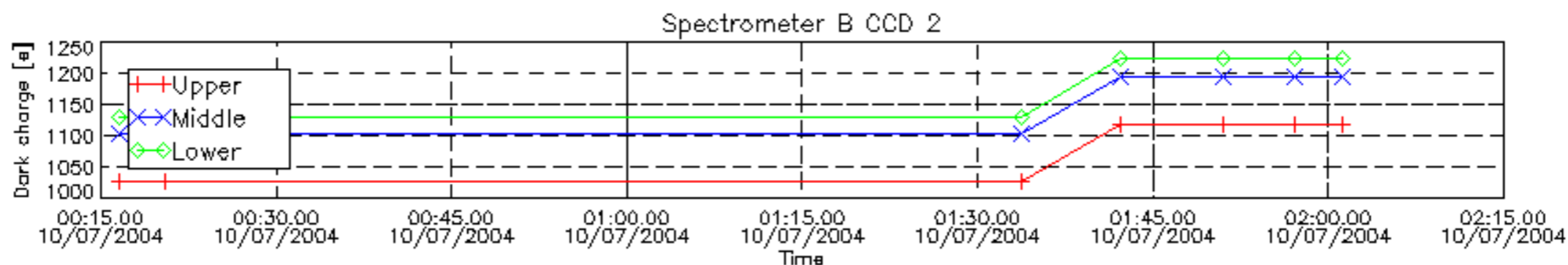
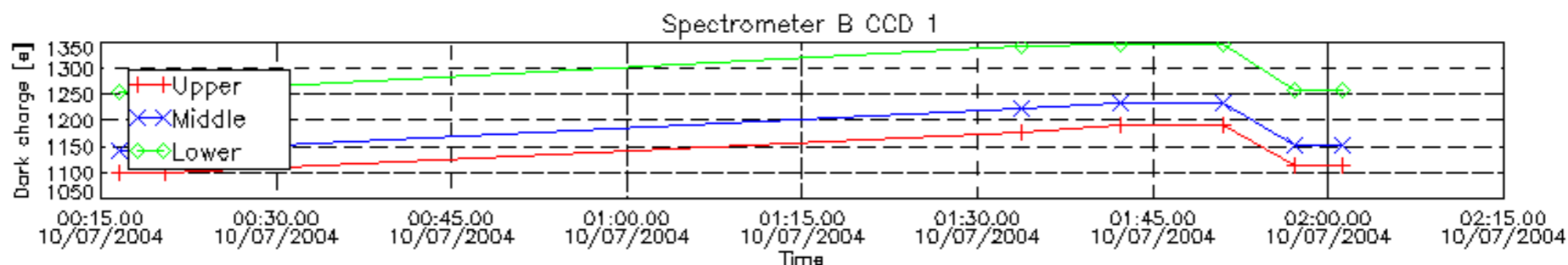
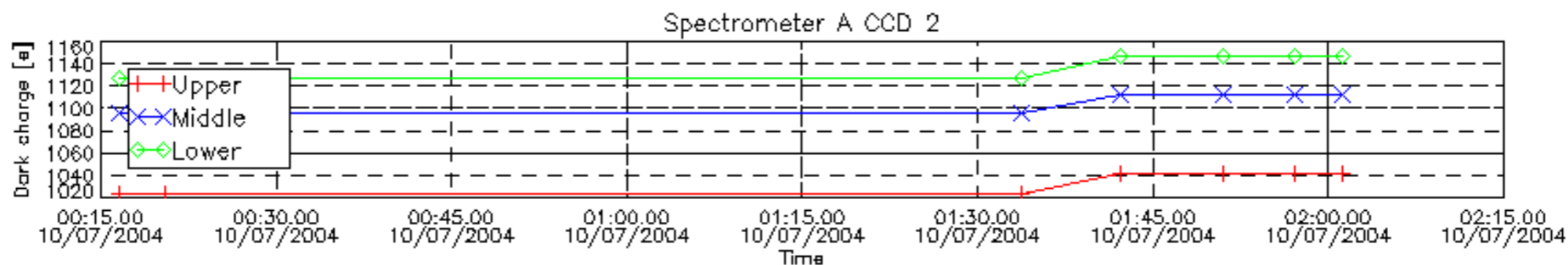
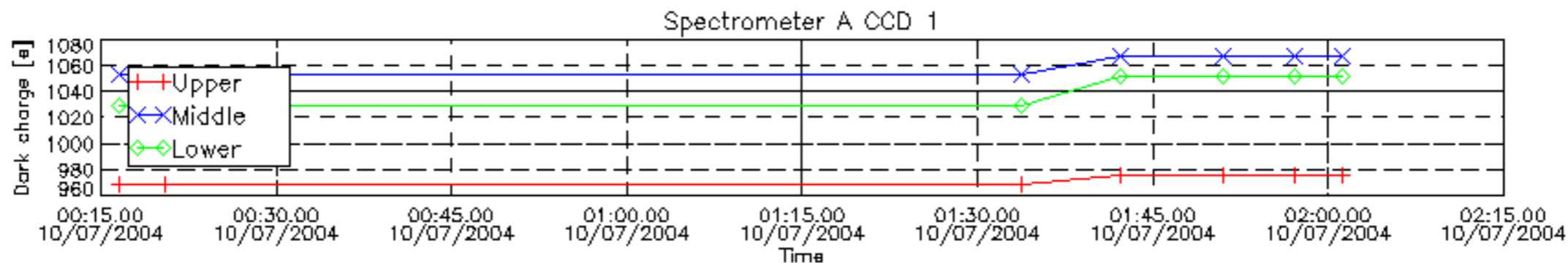


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

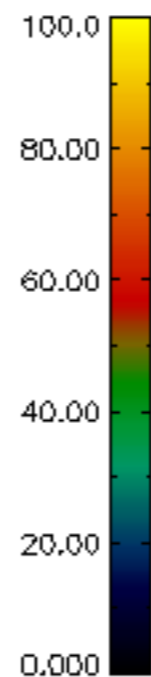
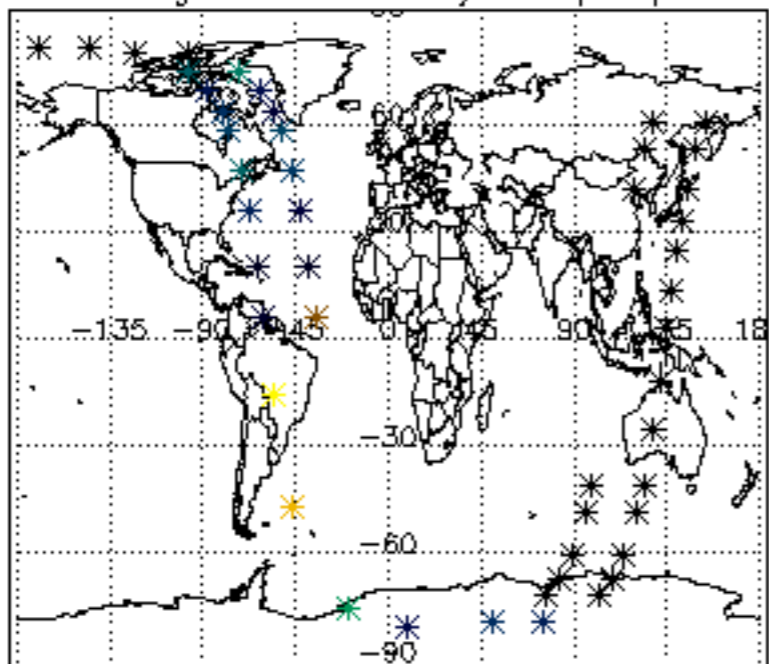
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.0	1447.3	1461.2	1447.4
St. deviation:	4.8991	5.8289	6.7369	7.2864
Maximum:	1585.0	1480.0	1505.0	1498.0
Minimum:	1438.0	1425.0	1433.0	1420.0
Number of data:	8800.0	8800.0	36200.	36200.

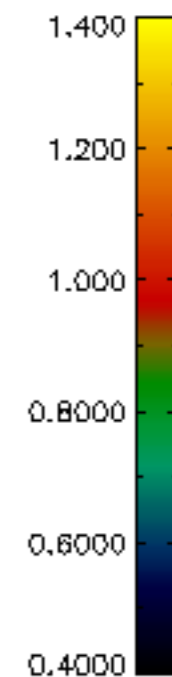
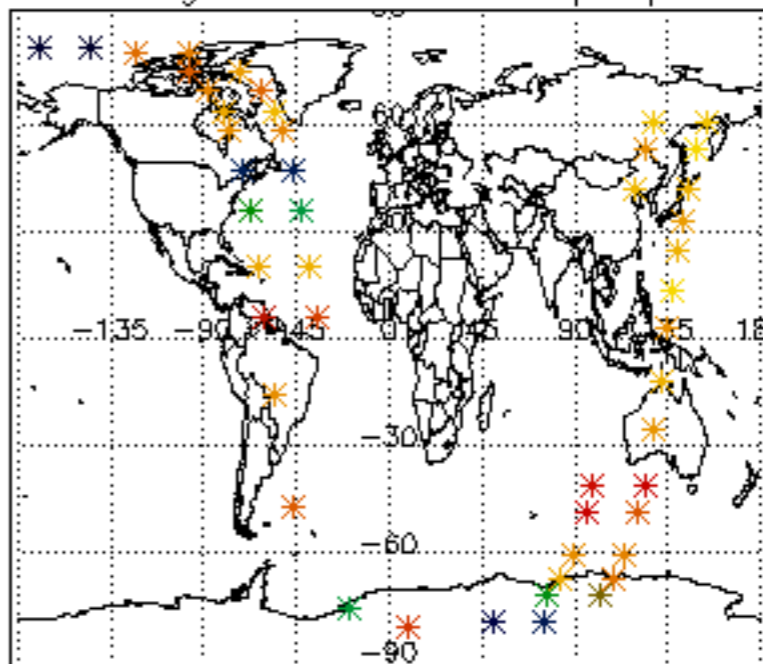




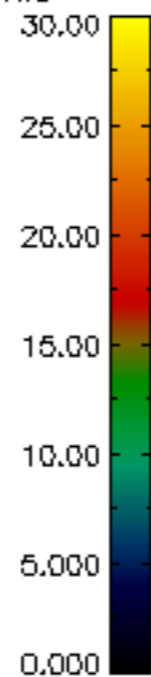
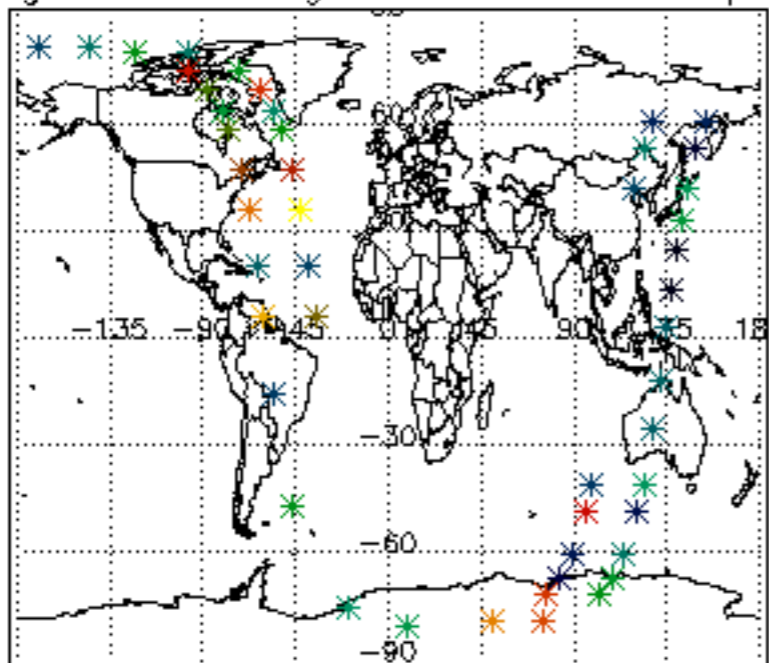
Percentage of cosmic ray hits per profile



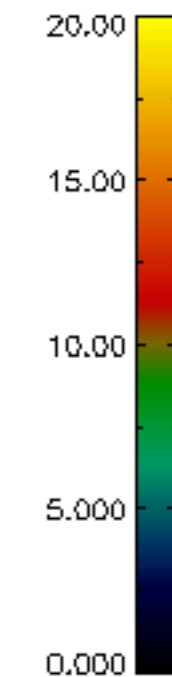
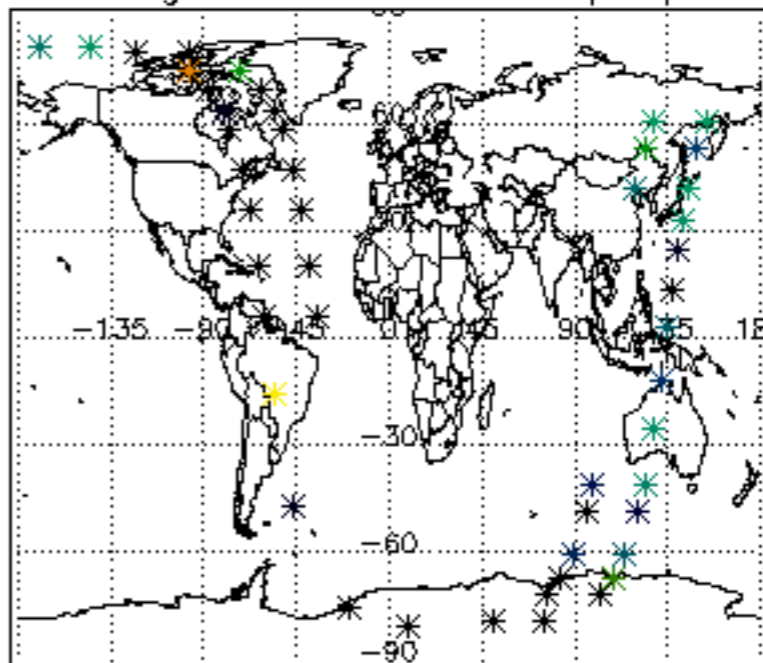
Percentage of datation errors per profile



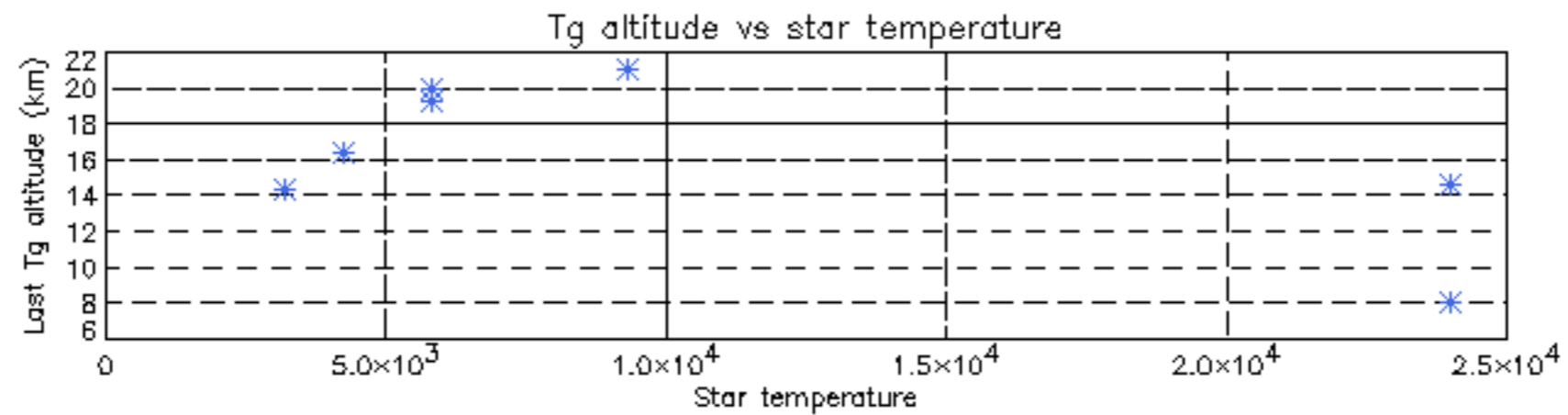
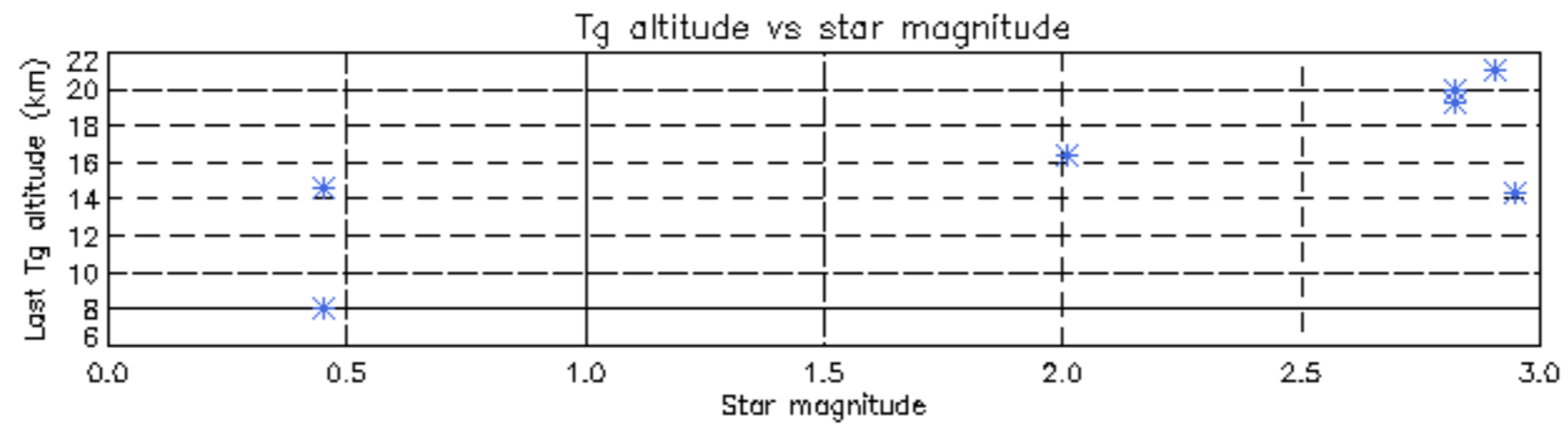
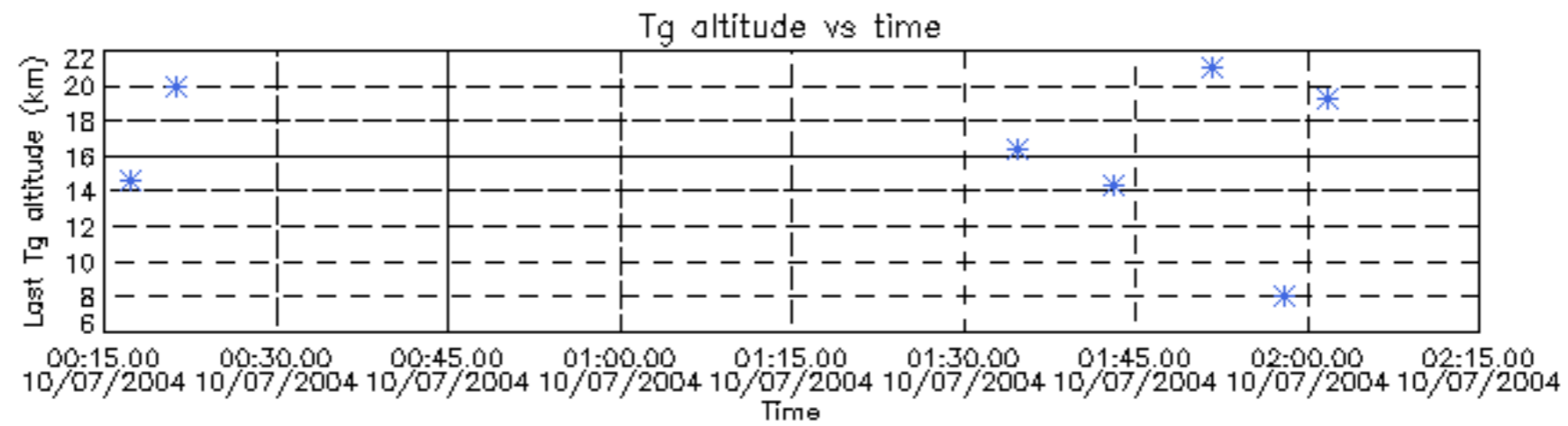
Percentage of star falling outside central band per profile



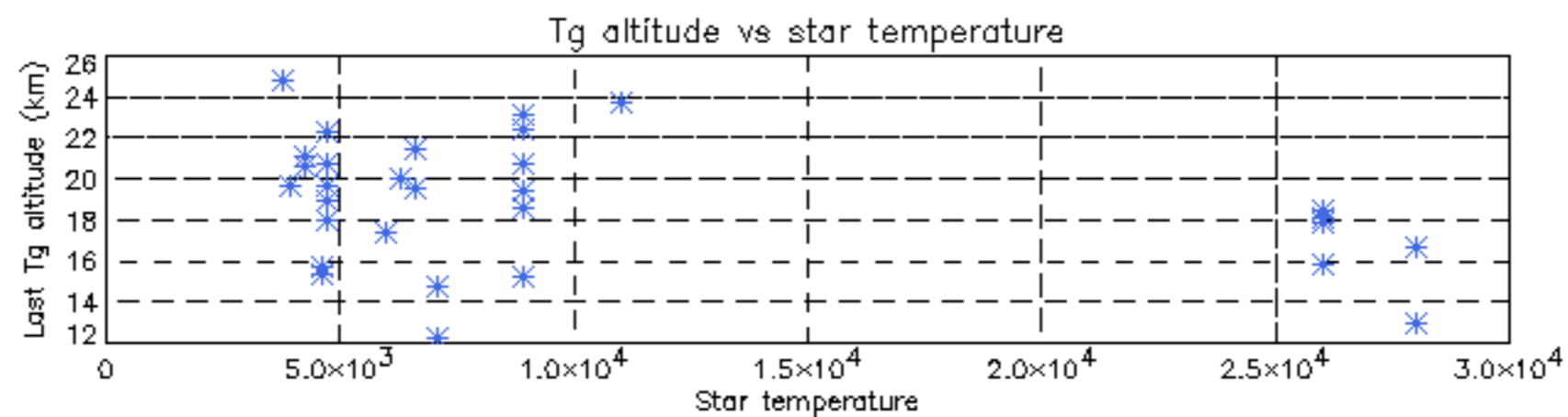
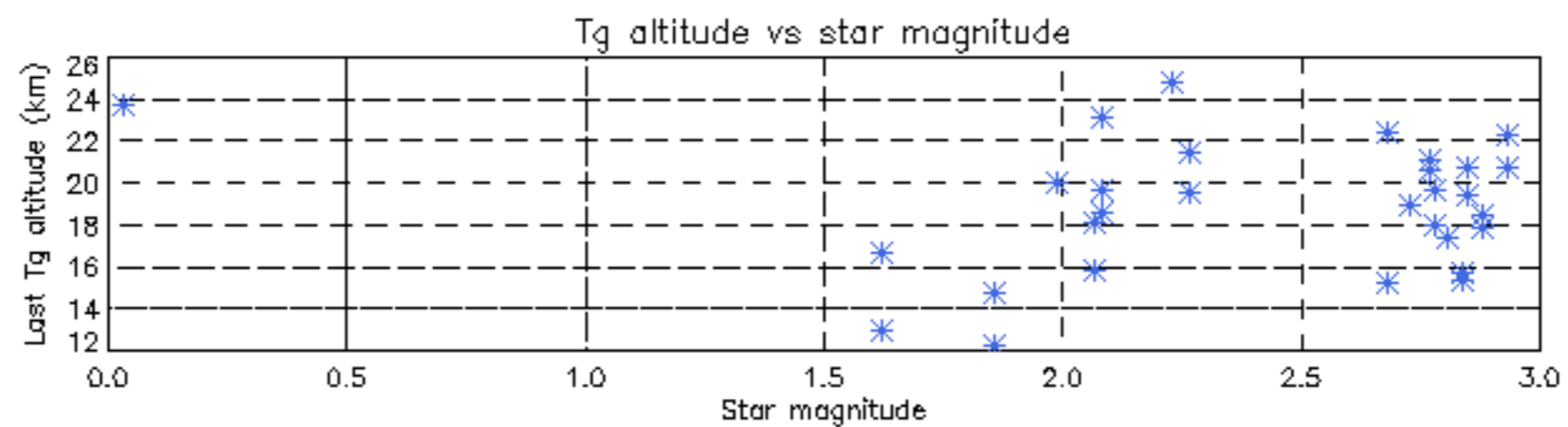
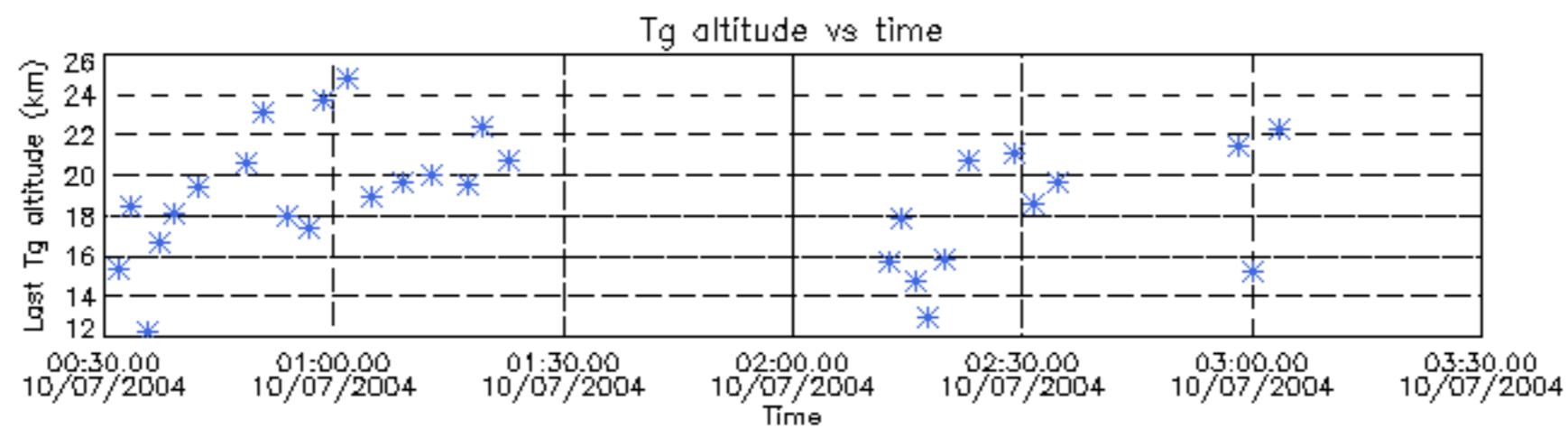
Percentage of saturation errors per profile



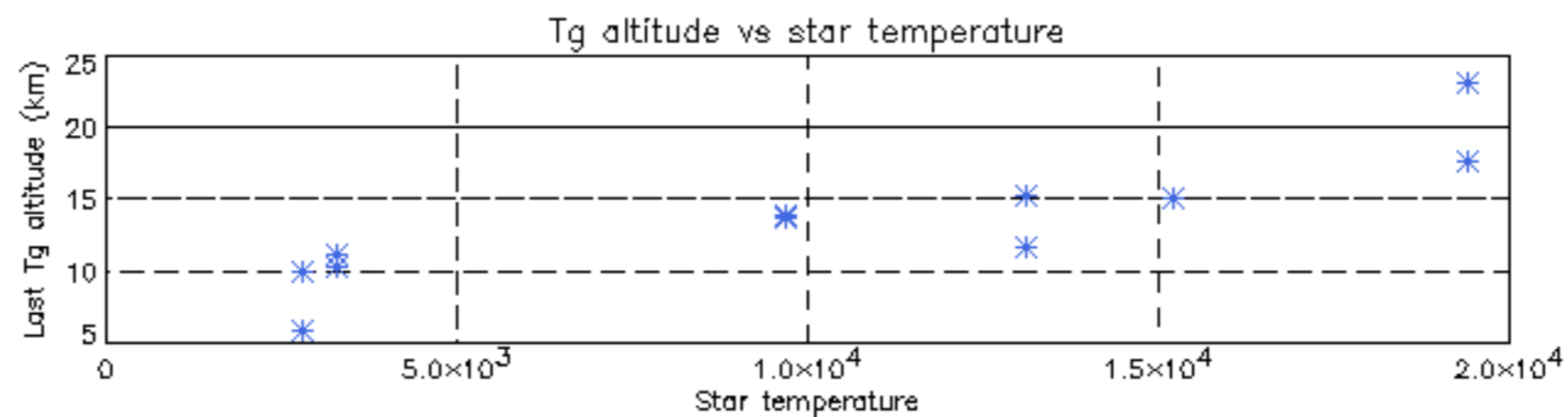
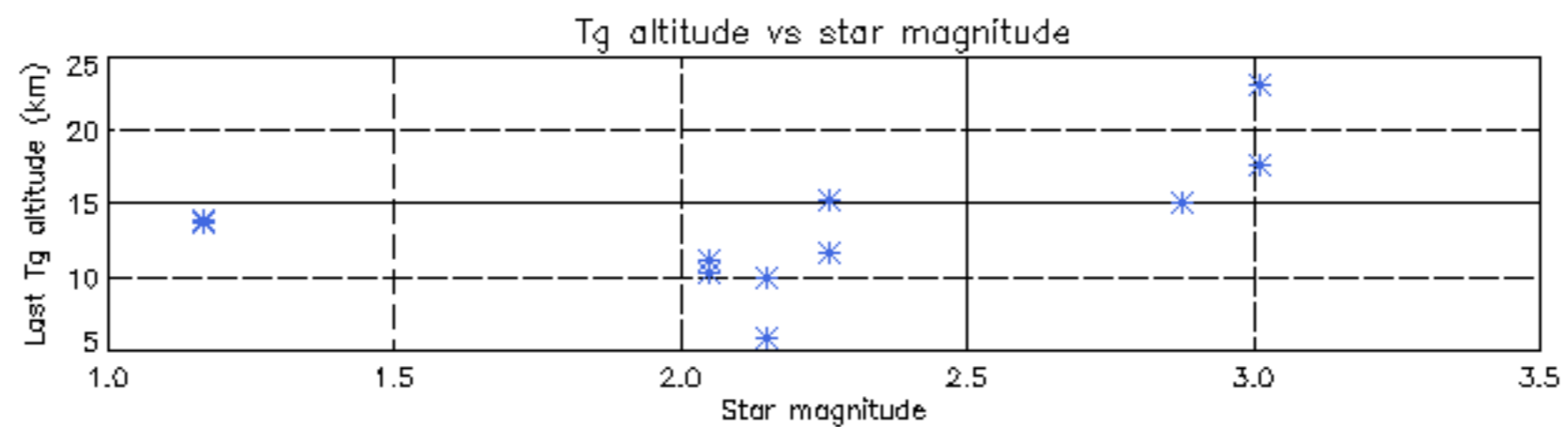
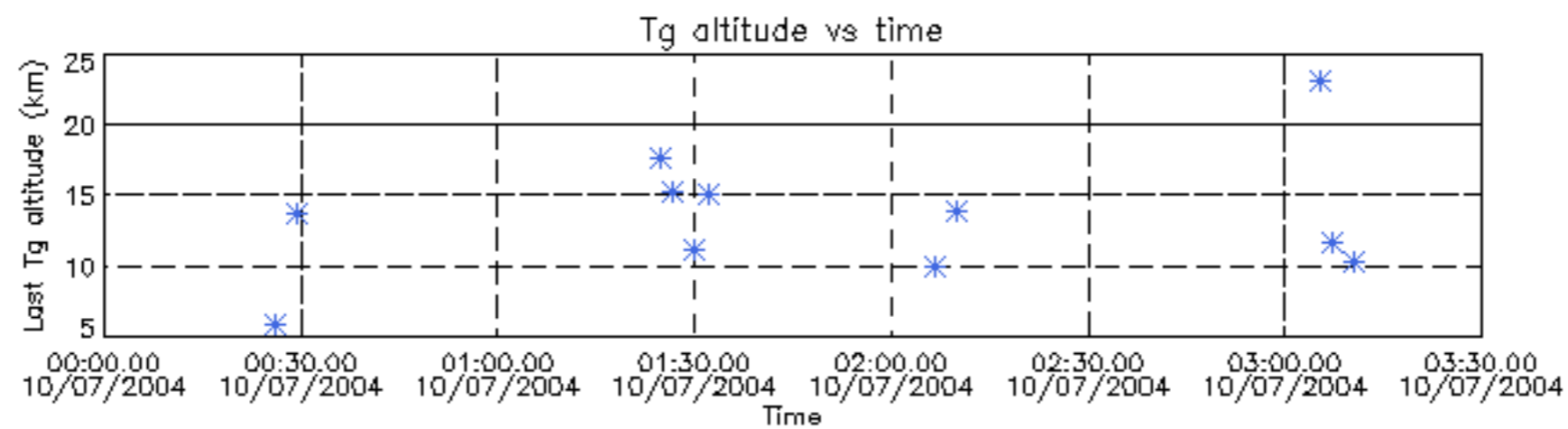
Tangent altitude at which the star is lost



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
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
4;-1872.4; 01-JUL-2004 04:28:07; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;12211
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
10; -494.3; 01-JUL-2004 04:51:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12211
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
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
36; 3443.7; 01-JUL-2004 05:56:43; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 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
5;-1771.3; 01-JUL-2004 06:10:24; Bright; 50.0; 73; 57Gam1And ; 2.26; 13100;occ; 100; 0;12212
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
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
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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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32; 513.0; 02-JUL-2004 18:01:03; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;12234
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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	
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9;	-3233.2;	03-JUL-2004 08:04:00;	Bright;	37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	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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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
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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
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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
28;	323.2;	03-JUL-2004 09:03:17;	Dark	;	39.0;	135;	Bet Hyi	;	2.82;	5800;occ;	78;	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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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	
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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	
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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	
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	
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29; 1322.7; 16-JUL-2004 09:11:21; Dark ; 42.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 84; 0;12429
30; 1436.2; 16-JUL-2004 09:13:15; Bright; 41.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 82; 0;12429
31; 1548.6; 16-JUL-2004 09:15:07; Bright; 79.0; 142; 49Del Cap ; 2.85; 8900;occ; 158; 0;12429
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 6;-3058.8; 16-JUL-2004 09:38:55; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;12429
 7;-2805.4; 16-JUL-2004 09:43:09; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;12429
 8;-2593.8; 16-JUL-2004 09:46:40; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;12429
 9;-2389.9; 16-JUL-2004 09:50:04; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;12429
10;-2273.0; 16-JUL-2004 09:52:01; Bright; 56.0; 68; 18Alp Cas ; 2.22; 4500;occ; 112; 0;12429
11;-1999.0; 16-JUL-2004 09:56:35; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;12429
12;-1918.4; 16-JUL-2004 09:57:56; Bright; 44.5; 35; 33Alp Per ; 1.79; 6250;occ; 89; 0;12429
13;-1800.7; 16-JUL-2004 09:59:54; Bright; 66.0; 73; 57Gam1And ; 2.26; 13100;occ; 132; 0;12429
14;-1627.0; 16-JUL-2004 10:02:47; Dark ; 125.5; 53; 43Bet And ; 2.05; 3300;occ; 251; 0;12429
15;-1410.7; 16-JUL-2004 10:06:24; Dark ; 43.0; 146; 25Eta Tau ; 2.87; 15200;occ; 86; 0;12429
16;-1317.1; 16-JUL-2004 10:07:57; Dark ; 46.0; 13; 87Alp Tau ; 0.87; 3800;occ; 92; 0;12429
17;-1123.1; 16-JUL-2004 10:11:11; Dark ; 91.0; 105; 6Bet Ari ; 2.64; 8900;occ; 182; 0;12429
18; -937.8; 16-JUL-2004 10:14:16; Dark ; 51.0; 7; 19Bet Ori ; 0.10; 14000;occ; 102; 0;12429
19; -790.5; 16-JUL-2004 10:16:44; Dark ; 40.5; 101; 11Alp Lep ; 2.58; 7000;occ; 81; 0;12429
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21; -206.7; 16-JUL-2004 10:26:28; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;12429
22; 161.2; 16-JUL-2004 10:32:35; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;12430
23; 368.3; 16-JUL-2004 10:36:03; Dark ; 39.0; 135; Bet Hyi ; 2.82; 5800;occ; 78; 0;12430
24; 688.4; 16-JUL-2004 10:41:23; Dark ; 58.5; 63; Bet Gru ; 2.15; 2800;occ; 117; 0;12430
25; 783.3; 16-JUL-2004 10:42:58; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;12430
26; 922.0; 16-JUL-2004 10:45:16; Dark ; 93.5; 18; 24Alp PsA ; 1.17; 9700;occ; 187; 0;12430
27; 1207.7; 16-JUL-2004 10:50:02; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;12430
28; 1322.6; 16-JUL-2004 10:51:57; Dark ; 42.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 85; 0;12430
29; 1436.4; 16-JUL-2004 10:53:51; Bright; 40.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 80; 0;12430
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2	-3902.9	16-JUL-2004	11:05:27	Bright	36.0	59	55Alp Oph	2.08	8900	occ	72	0	12430
3	-3547.7	16-JUL-2004	11:11:22	Bright	36.5	133	40Zet Her	2.81	6000	occ	73	0	12430
4	-3457.4	16-JUL-2004	11:12:53	Bright	42.0	5	3Alp Lyr	0.03	11000	occ	84	0	12430
5	-3254.9	16-JUL-2004	11:16:15	Bright	40.0	69	33Gam Dra	2.23	3800	occ	80	0	12430
6	-3058.6	16-JUL-2004	11:19:32	Bright	38.0	119	14Eta Dra	2.73	4700	occ	76	0	12430
7	-2805.6	16-JUL-2004	11:23:45	Bright	39.0	60	7Bet UMi	2.08	3950	occ	78	0	12430
8	-2594.1	16-JUL-2004	11:27:16	Bright	36.5	49	1Alp UMi	1.99	6300	occ	73	0	12430
9	-2391.0	16-JUL-2004	11:30:39	Bright	53.5	74	11Bet Cas	2.27	6600	occ	107	0	12430
10	-2273.5	16-JUL-2004	11:32:37	Bright	52.5	68	18Alp Cas	2.22	4500	occ	105	0	12430
11	-1999.6	16-JUL-2004	11:37:11	Bright	42.5	160	23Gam Per	2.93	4700	occ	85	0	12430
12	-1920.9	16-JUL-2004	11:38:29	Bright	47.5	35	33Alp Per	1.79	6250	occ	95	0	12430
13	-1800.9	16-JUL-2004	11:40:29	Bright	63.5	73	57Gam1And	2.26	13100	occ	127	0	12430
14	-1627.3	16-JUL-2004	11:43:23	Dark	121.0	53	43Bet And	2.05	3300	occ	242	0	12430
15	-1410.4	16-JUL-2004	11:47:00	Dark	45.5	146	25Eta Tau	2.87	15200	occ	91	0	12430
16	-1316.4	16-JUL-2004	11:48:34	Dark	48.0	13	87Alp Tau	0.87	3800	occ	96	0	12430
17	-1121.8	16-JUL-2004	11:51:48	Dark	90.5	105	6Bet Ari	2.64	8900	occ	181	0	12430
18	-936.9	16-JUL-2004	11:54:53	Dark	52.0	7	19Bet Ori	0.10	14000	occ	104	0	12430
19	-740.1	16-JUL-2004	11:58:10	Dark	40.5	139	9Bet Lep	2.83	5600	occ	81	0	12430
20	-516.6	16-JUL-2004	12:01:53	Dark	59.5	0		0.00	0	occ	119	0	12430
21	-206.0	16-JUL-2004	12:07:04	Dark	42.0	157	The1Eri	2.91	9300	occ	84	0	12430
22	161.1	16-JUL-2004	12:13:11	Dark	45.5	9	Alp Eri	0.45	24000	occ	91	0	12431
23	369.0	16-JUL-2004	12:16:39	Dark	38.5	135	Bet Hyi	2.82	5800	occ	77	0	12431
24	689.1	16-JUL-2004	12:21:59	Dark	56.5	63	Bet Gru	2.15	2800	occ	113	0	12431
25	783.4	16-JUL-2004	12:23:34	Dark	52.5	31	Alp Gru	1.73	15200	occ	105	0	12431
26	923.2	16-JUL-2004	12:25:53	Dark	86.5	18	24Alp PsA	1.17	9700	occ	173	0	12431
27	1207.5	16-JUL-2004	12:30:38	Dark	43.5	40	The Sco	1.86	7100	occ	87	0	12431
28	1322.8	16-JUL-2004	12:32:33	Dark	44.0	38	20Eps Sgr	1.84	11000	occ	88	0	12431
29	1433.7	16-JUL-2004	12:34:24	Bright	43.0	57	34Sig Sgr	2.07	26000	occ	86	0	12431
30	1549.4	16-JUL-2004	12:36:20	Bright	49.0	142	49Del Cap	2.85	8900	occ	98	0	12431

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1	-4471.5	16-JUL-2004	12:36:35	Bright	80.5	142	49Del Cap	2.85	8900	occ	161	30	12431
2	-4041.4	16-JUL-2004	12:43:45	Bright	40.0	126	60Bet Oph	2.77	4250	occ	80	0	12431
3	-3903.5	16-JUL-2004	12:46:02	Bright	39.5	59	55Alp Oph	2.08	8900	occ	79	0	12431
4	-3547.5	16-JUL-2004	12:51:59	Bright	39.0	133	40Zet Her	2.81	6000	occ	78	0	12431
5	-3458.8	16-JUL-2004	12:53:27	Bright	42.0	5	3Alp Lyr	0.03	11000	occ	84	0	12431
6	-3257.8	16-JUL-2004	12:56:48	Bright	42.5	69	33Gam Dra	2.23	3800	occ	85	0	12431
7	-3059.6	16-JUL-2004	13:00:06	Bright	39.0	119	14Eta Dra	2.73	4700	occ	78	0	12431
8	-2806.0	16-JUL-2004	13:04:20	Bright	40.5	60	7Bet UMi	2.08	3950	occ	81	0	12431
9	-2595.1	16-JUL-2004	13:07:51	Bright	38.5	49	1Alp UMi	1.99	6300	occ	77	0	12431
10	-2391.6	16-JUL-2004	13:11:14	Bright	53.5	74	11Bet Cas	2.27	6600	occ	107	0	12431
11	-2274.3	16-JUL-2004	13:13:12	Bright	53.0	68	18Alp Cas	2.22	4500	occ	106	0	12431
12	-1999.5	16-JUL-2004	13:17:47	Bright	43.5	160	23Gam Per	2.93	4700	occ	87	0	12431
13	-1918.6	16-JUL-2004	13:19:07	Bright	44.5	35	33Alp Per	1.79	6250	occ	89	0	12431
14	-1800.5	16-JUL-2004	13:21:06	Bright	64.0	73	57Gam1And	2.26	13100	occ	128	0	12431
15	-1627.2	16-JUL-2004	13:23:59	Dark	117.0	53	43Bet And	2.05	3300	occ	234	0	12431
16	-1410.2	16-JUL-2004	13:27:36	Dark	46.5	146	25Eta Tau	2.87	15200	occ	93	0	12431
17	-1316.7	16-JUL-2004	13:29:09	Dark	53.5	13	87Alp Tau	0.87	3800	occ	107	0	12431
18	-1120.6	16-JUL-2004	13:32:25	Dark	93.0	105	6Bet Ari	2.64	8900	occ	186	0	12431
19	-937.4	16-JUL-2004	13:35:29	Dark	48.5	7	19Bet Ori	0.10	14000	occ	97	0	12431
20	-739.5	16-JUL-2004	13:38:47	Dark	42.5	139	9Bet Lep	2.83	5600	occ	85	0	12431
21	-513.8	16-JUL-2004	13:42:32	Dark	59.5	0		0.00	0	occ	119	0	12431
22	-205.9	16-JUL-2004	13:47:40	Dark	44.0	157	The1Eri	2.91	9300	occ	88	0	12431
23	161.8	16-JUL-2004	13:53:48	Dark	44.5	9	Alp Eri	0.45	24000	occ	89	0	12432
24	368.8	16-JUL-2004	13:57:15	Dark	38.0	135	Bet Hyi	2.82	5800	occ	76	0	12432
25	689.5	16-JUL-2004	14:02:36	Dark	66.0	63	Bet Gru	2.15	2800	occ	132	0	12432
26	783.6	16-JUL-2004	14:04:10	Dark	56.5	31	Alp Gru	1.73	15200	occ	113	0	12432
27	925.4	16-JUL-2004	14:06:31	Dark	85.5	18	24Alp PsA	1.17	9700	occ	171	0	12432
28	1208.1	16-JUL-2004	14:11:14	Dark	43.0	40	The Sco	1.86	7100	occ	86	0	12432
29	1322.7	16-JUL-2004	14:13:09	Dark	42.5	38	20Eps Sgr	1.84	11000	occ	85	0	12432
30	1435.8	16-JUL-2004	14:15:02	Bright	41.5	57	34Sig Sgr	2.07	26000	occ	83	0	12432

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1	-4485.8	16-JUL-2004	14:16:56	Bright	77.5	142	49Del Cap	2.85	8900	occ	155	0	12432
2	-4040.7	16-JUL-2004	14:24:21	Bright	39.0	126	60Bet Oph	2.77	4250	occ	78	0	12432
3	-3905.7	16-JUL-2004	14:26:36	Bright	38.5	59	55Alp Oph	2.08	8900	occ	77	0	12432
4	-3547.8	16-JUL-2004	14:32:34	Bright	37.5	133	40Zet Her	2.81	6000	occ	75	0	12432
5	-3459.0	16-JUL-2004	14:34:03	Bright	38.5	5	3Alp Lyr	0.03	11000	occ	77	0	12432

6;	-3257.8;	16-JUL-2004	14:37:24;	Bright;	40.0;	69;	33Gam Dra	; 2.23;	3800;occ;	80;	0;	12432
7;	-3059.5;	16-JUL-2004	14:40:43;	Bright;	38.0;	119;	14Eta Dra	; 2.73;	4700;occ;	76;	0;	12432
8;	-2807.5;	16-JUL-2004	14:44:54;	Bright;	37.5;	60;	7Bet UMi	; 2.08;	3950;occ;	75;	0;	12432
9;	-2596.9;	16-JUL-2004	14:48:25;	Bright;	38.0;	49;	1Alp UMi	; 1.99;	6300;occ;	76;	0;	12432
10;	-2392.4;	16-JUL-2004	14:51:50;	Bright;	52.0;	74;	11Bet Cas	; 2.27;	6600;occ;	104;	0;	12432
11;	-2274.9;	16-JUL-2004	14:53:47;	Bright;	55.5;	68;	18Alp Cas	; 2.22;	4500;occ;	111;	0;	12432
12;	-2000.2;	16-JUL-2004	14:58:22;	Bright;	44.0;	160;	23Gam Per	; 2.93;	4700;occ;	88;	0;	12432
13;	-1919.4;	16-JUL-2004	14:59:43;	Bright;	45.5;	35;	33Alp Per	; 1.79;	6250;occ;	91;	0;	12432
14;	-1800.7;	16-JUL-2004	15:01:41;	Bright;	64.0;	73;	57Gam1And	; 2.26;	13100;occ;	128;	0;	12432
15;	-1627.3;	16-JUL-2004	15:04:35;	Dark	; 111.5;	53;	43Bet And	; 2.05;	3300;occ;	223;	0;	12432
16;	-1409.9;	16-JUL-2004	15:08:12;	Dark	; 47.0;	146;	25Eta Tau	; 2.87;	15200;occ;	94;	0;	12432
17;	-1315.8;	16-JUL-2004	15:09:46;	Dark	; 50.5;	13;	87Alp Tau	; 0.87;	3800;occ;	101;	0;	12432
18;	-1119.3;	16-JUL-2004	15:13:03;	Dark	; 91.0;	105;	6Bet Ari	; 2.64;	8900;occ;	182;	0;	12432
19;	-938.9;	16-JUL-2004	15:16:03;	Dark	; 47.0;	7;	19Bet Ori	; 0.10;	14000;occ;	94;	0;	12432
20;	-739.3;	16-JUL-2004	15:19:23;	Dark	; 40.5;	139;	9Bet Lep	; 2.83;	5600;occ;	81;	0;	12432
21;	-511.0;	16-JUL-2004	15:23:11;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	12432
22;	-205.9;	16-JUL-2004	15:28:16;	Dark	; 44.5;	157;	The1Eri	; 2.91;	9300;occ;	89;	0;	12432
23;	161.8;	16-JUL-2004	15:34:24;	Dark	; 45.0;	9;	Alp Eri	; 0.45;	24000;occ;	90;	0;	12433
24;	366.6;	16-JUL-2004	15:37:49;	Dark	; 43.0;	135;	Bet Hyi	; 2.82;	5800;occ;	86;	0;	12433
25;	690.6;	16-JUL-2004	15:43:13;	Dark	; 54.0;	63;	Bet Gru	; 2.15;	2800;occ;	108;	0;	12433
26;	784.7;	16-JUL-2004	15:44:47;	Dark	; 49.5;	31;	Alp Gru	; 1.73;	15200;occ;	99;	0;	12433
27;	926.4;	16-JUL-2004	15:47:08;	Dark	; 83.5;	18;	24Alp PsA	; 1.17;	9700;occ;	167;	0;	12433
28;	1207.8;	16-JUL-2004	15:51:50;	Dark	; 44.5;	40;	The Sco	; 1.86;	7100;occ;	89;	0;	12433
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3;	1323.6;	16-JUL-2004	20:55:34;	Dark	; 43.5;	38;	20Eps Sgr	; 1.84;	11000;occ;	87;	0;	12436
4;	1436.5;	16-JUL-2004	20:57:27;	Bright;	41.0;	57;	34Sig Sgr	; 2.07;	26000;occ;	82;	0;	12436
5;	1549.6;	16-JUL-2004	20:59:20;	Bright;	77.0;	142;	49Del Cap	; 2.85;	8900;occ;	154;	0;	12436
6;	1996.3;	16-JUL-2004	21:06:46;	Bright;	37.0;	126;	60Bet Oph	; 2.77;	4250;occ;	74;	0;	12436
7;	2133.7;	16-JUL-2004	21:09:04;	Bright;	37.5;	59;	55Alp Oph	; 2.08;	8900;occ;	75;	0;	12436
8;	2489.8;	16-JUL-2004	21:15:00;	Bright;	39.0;	133;	40Zet Her	; 2.81;	6000;occ;	78;	0;	12436
9;	2577.4;	16-JUL-2004	21:16:27;	Bright;	41.0;	5;	3Alp Lyr	; 0.03;	11000;occ;	82;	0;	12436
10;	2780.7;	16-JUL-2004	21:19:51;	Bright;	41.5;	69;	33Gam Dra	; 2.23;	3800;occ;	83;	0;	12436
11;	2978.1;	16-JUL-2004	21:23:08;	Bright;	39.0;	119;	14Eta Dra	; 2.73;	4700;occ;	78;	0;	12436
12;	3231.6;	16-JUL-2004	21:27:22;	Bright;	40.0;	60;	7Bet UMi	; 2.08;	3950;occ;	80;	0;	12436
13;	3441.7;	16-JUL-2004	21:30:52;	Bright;	37.5;	49;	1Alp UMi	; 1.99;	6300;occ;	75;	0;	12436
14;	3638.3;	16-JUL-2004	21:34:08;	Bright;	55.5;	74;	11Bet Cas	; 2.27;	6600;occ;	111;	0;	12436
15;	3758.1;	16-JUL-2004	21:36:08;	Bright;	55.0;	68;	18Alp Cas	; 2.22;	4500;occ;	110;	0;	12436
16;	4035.3;	16-JUL-2004	21:40:45;	Bright;	61.0;	160;	23Gam Per	; 2.93;	4700;occ;	122;	0;	12436
17;	4114.2;	16-JUL-2004	21:42:04;	Bright;	47.0;	35;	33Alp Per	; 1.79;	6250;occ;	94;	0;	12436
18;	4233.9;	16-JUL-2004	21:44:04;	Bright;	62.5;	73;	57Gam1And	; 2.26;	13100;occ;	125;	0;	12436
19;	4407.7;	16-JUL-2004	21:46:58;	Dark	; 114.5;	53;	43Bet And	; 2.05;	3300;occ;	229;	0;	12436
20;	4626.0;	16-JUL-2004	21:50:36;	Dark	; 49.5;	146;	25Eta Tau	; 2.87;	15200;occ;	99;	0;	12436
21;	4720.9;	16-JUL-2004	21:52:11;	Dark	; 48.5;	13;	87Alp Tau	; 0.87;	3800;occ;	97;	0;	12436
22;	5100.1;	16-JUL-2004	21:58:30;	Dark	; 39.5;	7;	19Bet Ori	; 0.10;	14000;occ;	79;	0;	12436
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4;	-1929.2;	22-JUL-2004	03:26:52;	Bright;	60.0;	35;	33Alp Per	;	1.79;	6250;occ;	120;	0;	12511	
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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
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
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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
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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
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26;	2009.5;	22-JUL-2004	04:32:30;	Bright;	38.5;	126;	60Bet Oph	;	2.77;	4250;occ;	77;	0;	12512	
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29;	2733.3;	22-JUL-2004	04:44:34;	Bright;	40.0;	144;	18Del Cyg	;	2.86;	11000;occ;	80;	0;	12512	
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4; -3679.8; 24-JUL-2004 08:36:51; Bright; 86.5; 61; 8Eps Peg ; 2.10; 3900;occ; 173; 0;12543
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