

# GOMOS Daily Report 25-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	28JUL2004 05:06:28
Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-3D (25JUL2004 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-3D (26JUL2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	48
Nb of prods with errors	0

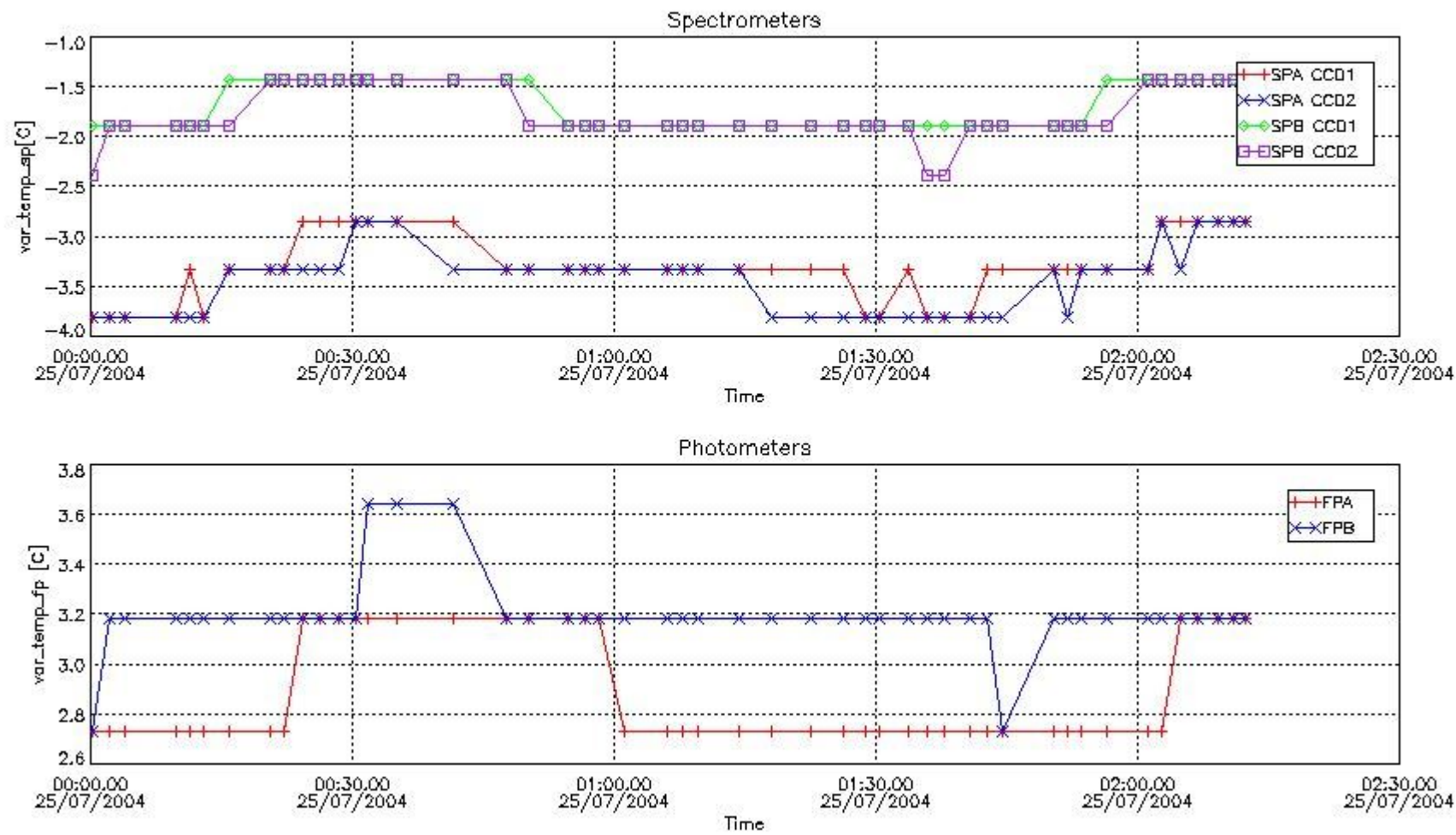
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20040725_000016_000000372028_00474_12552_0021.N1	25-JUL-2004 00:00:16	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	12552	No
GOM_TRA_1PNPDE20040725_000213_000000522028_00474_12552_0022.N1	25-JUL-2004 00:02:13	Bright	52.000	74	11Bet Cas	2.2680	6600.0	104	12552	No
GOM_TRA_1PNPDE20040725_000358_000000492028_00474_12552_0023.N1	25-JUL-2004 00:03:58	Bright	48.500	76	27Gam Cas	2.3000	30000.	97	12552	No
GOM_TRA_1PNPDE20040725_000947_000000482028_00474_12552_0024.N1	25-JUL-2004 00:09:47	Bright	47.500	160	23Gam Per	2.9300	4700.0	95	12552	No
GOM_TRA_1PNPDE20040725_001118_000000472028_00474_12552_0025.N1	25-JUL-2004 00:11:18	Bright	47.000	35	33Alp Per	1.7950	6250.0	94	12552	No
GOM_TRA_1PNPDE20040725_001258_000000722028_00474_12552_0026.N1	25-JUL-2004 00:12:58	Twilight	72.000	73	57Gam1And	2.2600	13100.	144	12552	No
GOM_TRA_1PNPDE20040725_001558_000001682028_00474_12552_0027.N1	25-JUL-2004 00:15:58	Twilight	168.00	53	43Bet And	2.0480	3300.0	336	12552	No
GOM_TRA_1PNPDE20040725_002036_000000542028_00474_12552_0028.N1	25-JUL-2004 00:20:36	Twilight	54.000	146	25Eta Tau	2.8730	15200.	108	12552	No
GOM_TRA_1PNPDE20040725_002212_000000512028_00474_12552_0029.N1	25-JUL-2004 00:22:12	Twilight	51.000	13	87Alp Tau	0.86700	3800.0	102	12552	No
GOM_TRA_1PNPDE20040725_002414_000000442028_00474_12552_0030.N1	25-JUL-2004 00:24:14	Twilight	43.500	27	24Gam Ori	1.6360	26000.	87	12552	No
GOM_TRA_1PNPDE20040725_002612_000000412028_00474_12552_0031.N1	25-JUL-2004 00:26:12	Twilight	41.000	30	46Eps Ori	1.6940	30000.	82	12552	No
GOM_TRA_1PNPDE20040725_002831_000000492028_00474_12552_0032.N1	25-JUL-2004 00:28:31	Dark	48.500	7	19Bet Ori	0.10000	14000.	97	12552	No
GOM_TRA_1PNPDE20040725_003018_000000392028_00474_12552_0033.N1	25-JUL-2004 00:30:18	Dark	38.500	47	2Bet CMa	1.9760	28000.	77	12552	No
GOM_TRA_1PNPDE20040725_003141_000000432028_00474_12552_0001.N1	25-JUL-2004 00:31:41	Dark	42.500	139	9Bet Lep	2.8330	5600.0	85	12552	No
GOM_TRA_1PNPDE20040725_003506_000000402028_00474_12552_0002.N1	25-JUL-2004 00:35:06	Dark	39.500	108	Alp Col	2.6520	15200.	79	12552	No
GOM_TRA_1PNPDE20040725_004138_000000492028_00474_12552_0003.N1	25-JUL-2004 00:41:38	Dark	49.000	157	The1Eri	2.9060	9300.0	98	12552	No
GOM_TRA_1PNPDE20040725_004733_000000562028_00475_12553_0004.N1	25-JUL-2004 00:47:33	Dark	56.000	9	Alp Eri	0.45300	24000.	112	12553	No
GOM_TRA_1PNPDE20040725_005013_000000402028_00475_12553_0005.N1	25-JUL-2004 00:50:13	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	12553	No
GOM_TRA_1PNPDE20040725_005445_000000542028_00475_12553_0006.N1	25-JUL-2004 00:54:45	Twilight	54.000	148	Alp Tuc	2.8780	4100.0	108	12553	No
GOM_TRA_1PNPDE20040725_005636_000000652028_00475_12553_0007.N1	25-JUL-2004 00:56:36	Twilight	65.000	63	Bet Gru	2.1500	2800.0	130	12553	No
GOM_TRA_1PNPDE20040725_005813_000000452028_00475_12553_0008.N1	25-JUL-2004 00:58:13	Twilight	45.000	45	Alp Pav	1.9400	26000.	90	12553	No
GOM_TRA_1PNPDE20040725_010107_000000792028_00475_12553_0009.N1	25-JUL-2004 01:01:07	Bright	79.000	18	24Alp PsA	1.1660	9700.0	158	12553	No
GOM_TRA_1PNPDE20040725_010559_000000422028_00475_12553_0010.N1	25-JUL-2004 01:05:59	Bright	41.500	38	20Eps Sgr	1.8360	11000.	83	12553	No
GOM_TRA_1PNPDE20040725_010752_000000412028_00475_12553_0011.N1	25-JUL-2004 01:07:52	Bright	40.500	57	34Sig Sgr	2.0660	26000.	81	12553	No
GOM_TRA_1PNPDE20040725_010934_000000622028_00475_12553_0012.N1	25-JUL-2004 01:09:34	Bright	62.000	142	49Del Cap	2.8500	8900.0	124	12553	No
GOM_TRA_1PNPDE20040725_011424_000000652028_00475_12553_0013.N1	25-JUL-2004 01:14:24	Bright	64.500	154	22Bet Aqr	2.8990	5700.0	129	12553	No
GOM_TRA_1PNPDE20040725_011802_000000422028_00475_12553_0014.N1	25-JUL-2004 01:18:02	Bright	41.500	11	53Alp Aql	0.76500	8000.0	83	12553	No
GOM_TRA_1PNPDE20040725_012235_000000802028_00475_12553_0015.N1	25-JUL-2004 01:22:35	Bright	79.500	61	8Eps Peg	2.1000	3900.0	159	12553	No
GOM_TRA_1PNPDE20040725_012619_000000432028_00475_12553_0016.N1	25-JUL-2004 01:26:19	Bright	43.000	5	3Alp Lyr	0.033000	11000.	86	12553	No
GOM_TRA_1PNPDE20040725_012852_000000412028_00475_12553_0017.N1	25-JUL-2004 01:28:52	Bright	41.000	144	18Del Cyg	2.8600	11000.	82	12553	No
GOM_TRA_1PNPDE20040725_013020_000000422028_00475_12553_0018.N1	25-JUL-2004 01:30:20	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	12553	No
GOM_TRA_1PNPDE20040725_013339_000000402028_00475_12553_0019.N1	25-JUL-2004 01:33:39	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	12553	No
GOM_TRA_1PNPDE20040725_013548_000000392028_00475_12553_0020.N1	25-JUL-2004 01:35:48	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	12553	No
GOM_TRA_1PNPDE20040725_013751_000000372028_00475_12553_0021.N1	25-JUL-2004 01:37:51	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	12553	No
GOM_TRA_1PNPDE20040725_014051_000000412028_00475_12553_0022.N1	25-JUL-2004 01:40:51	Bright	41.000	49	1Alp UMi	1.9900	6300.0	82	12553	No
GOM_TRA_1PNPDE20040725_014248_000000532028_00475_12553_0023.N1	25-JUL-2004 01:42:48	Bright	52.500	74	11Bet Cas	2.2680	6600.0	105	12553	No
GOM_TRA_1PNPDE20040725_014433_000000492028_00475_12553_0024.N1	25-JUL-2004 01:44:33	Bright	49.000	76	27Gam Cas	2.3000	30000.	98	12553	No
GOM_TRA_1PNPDE20040725_015022_000000442028_00475_12553_0025.N1	25-JUL-2004 01:50:22	Bright	44.000	160	23Gam Per	2.9300	4700.0	88	12553	No
GOM_TRA_1PNPDE20040725_015154_000000472028_00475_12553_0026.N1	25-JUL-2004 01:51:54	Bright	46.500	35	33Alp Per	1.7950	6250.0	93	12553	No
GOM_TRA_1PNPDE20040725_015334_000000742028_00475_12553_0027.N1	25-JUL-2004 01:53:34	Twilight	74.000	73	57Gam1And	2.2600	13100.	148	12553	No
GOM_TRA_1PNPDE20040725_015633_000001652028_00475_12553_0028.N1	25-JUL-2004 01:56:33	Twilight	165.00	53	43Bet And	2.0480	3300.0	330	12553	No
GOM_TRA_1PNPDE20040725_020113_000000542028_00475_12553_0029.N1	25-JUL-2004 02:01:13	Twilight	54.000	146	25Eta Tau	2.8730	15200.	108	12553	No
GOM_TRA_1PNPDE20040725_020248_000000572028_00475_12553_0030.N1	25-JUL-2004 02:02:48	Twilight	56.500	13	87Alp Tau	0.86700	3800.0	113	12553	No
GOM_TRA_1PNPDE20040725_020452_000000432028_00475_12553_0031.N1	25-JUL-2004 02:04:52	Twilight	42.500	27	24Gam Ori	1.6360	26000.	85	12553	No
GOM_TRA_1PNPDE20040725_020646_000000432028_00475_12553_0032.N1	25-JUL-2004 02:06:46	Twilight	43.000	30	46Eps Ori	1.6940	30000.	86	12553	No
GOM_TRA_1PNPDE20040725_020907_000000492028_00475_12553_0001.N1	25-JUL-2004 02:09:07	Dark	49.000	7	19Bet Ori	0.10000	14000.	98	12553	No
GOM_TRA_1PNPDE20040725_021054_000000412028_00475_12553_0002.N1	25-JUL-2004 02:10:54	Dark	41.000	47	2Bet CMa	1.9760	28000.	82	12553	No
GOM_TRA_1PNPDE20040725_021217_000000432028_00475_12553_0003.N1	25-JUL-2004 02:12:17	Dark	42.500	139	9Bet Lep	2.8330	5600.0	85	12553	No

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



### 4. Overview of dark signal processing per product

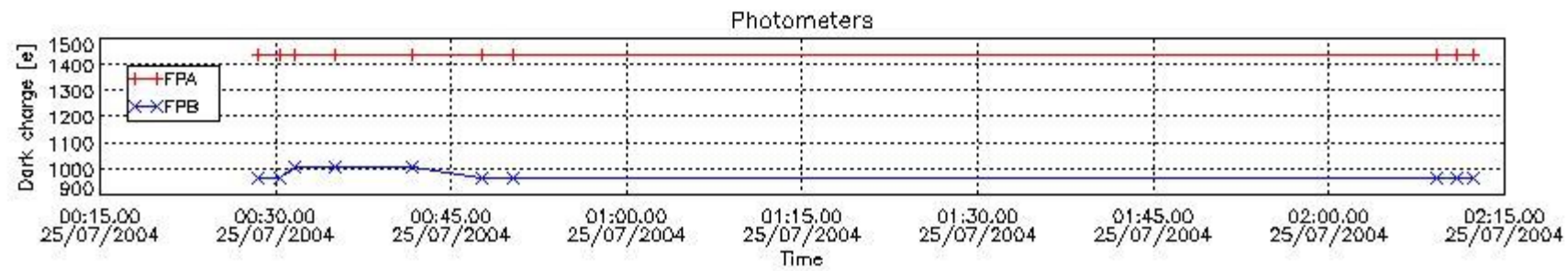
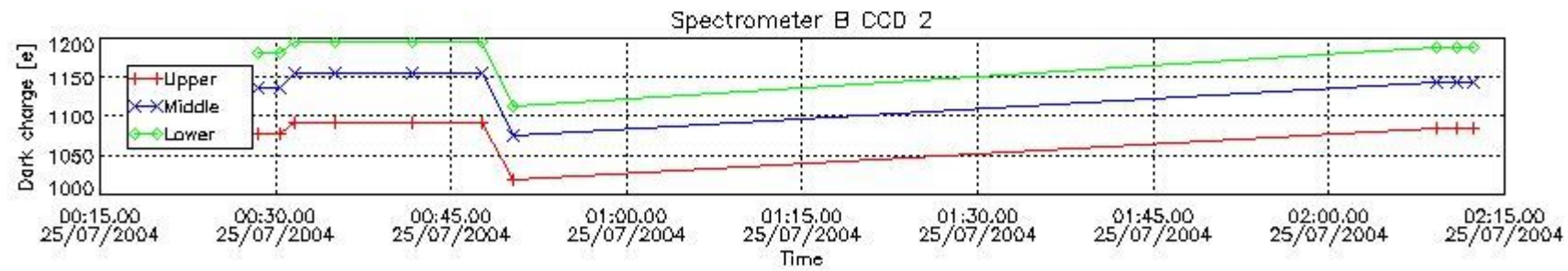
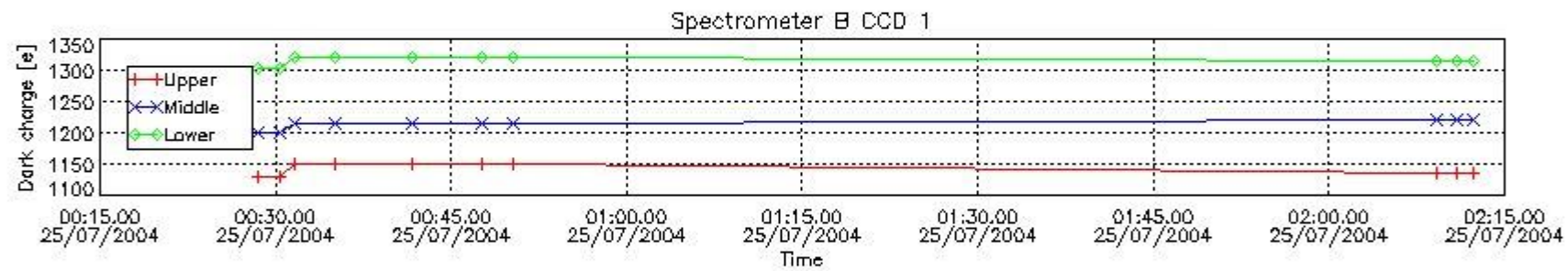
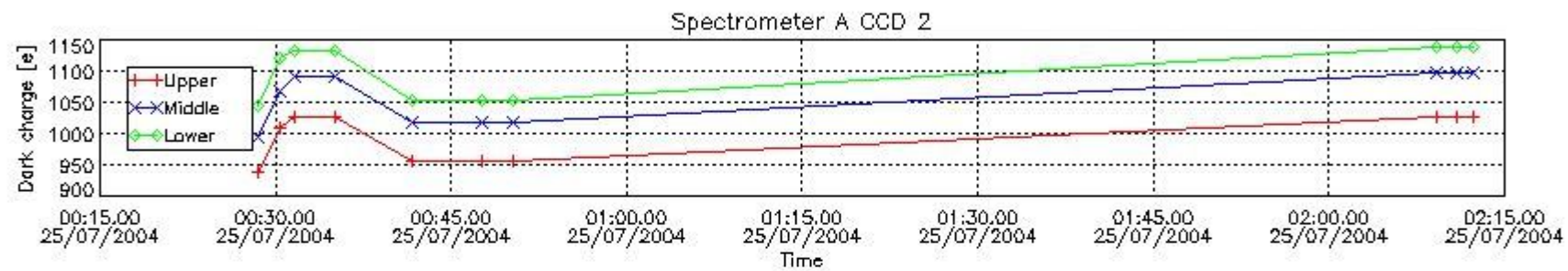
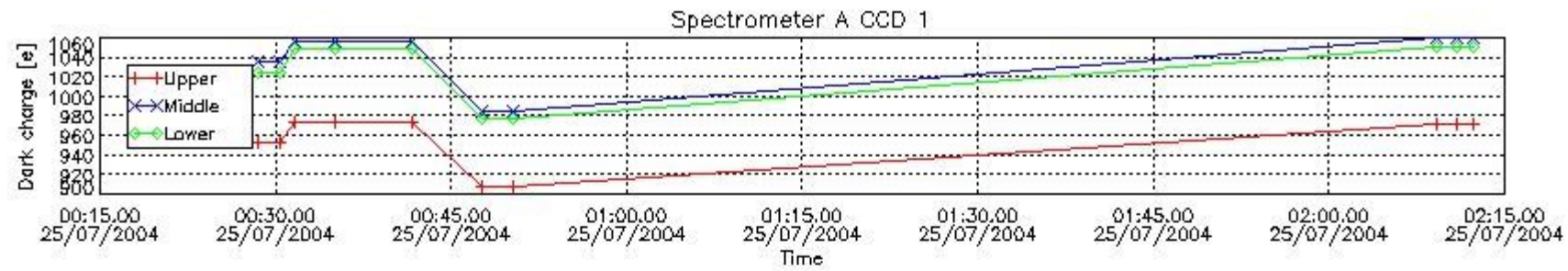
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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





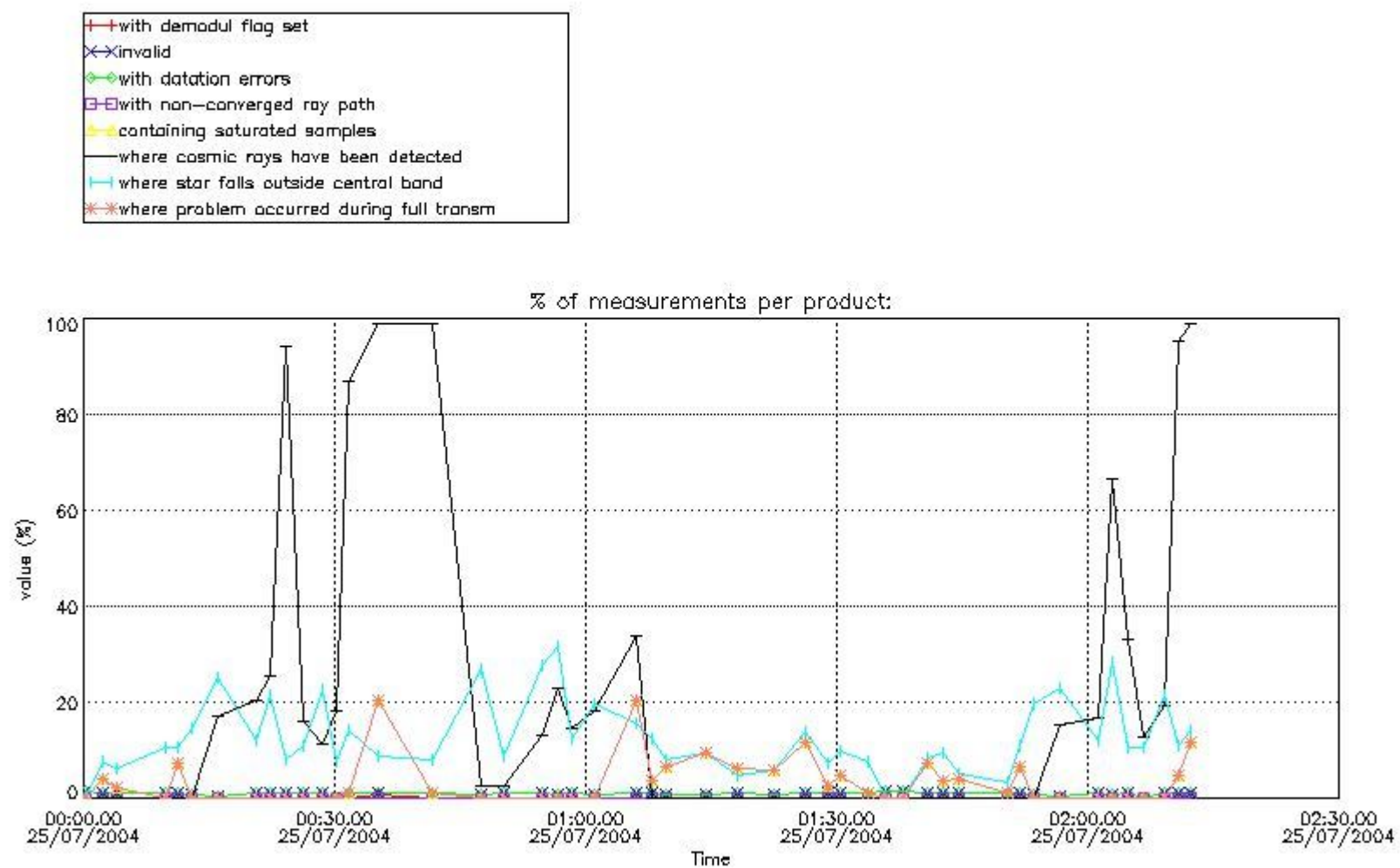
## 5. Demodulation flag and quality information monitoring

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:

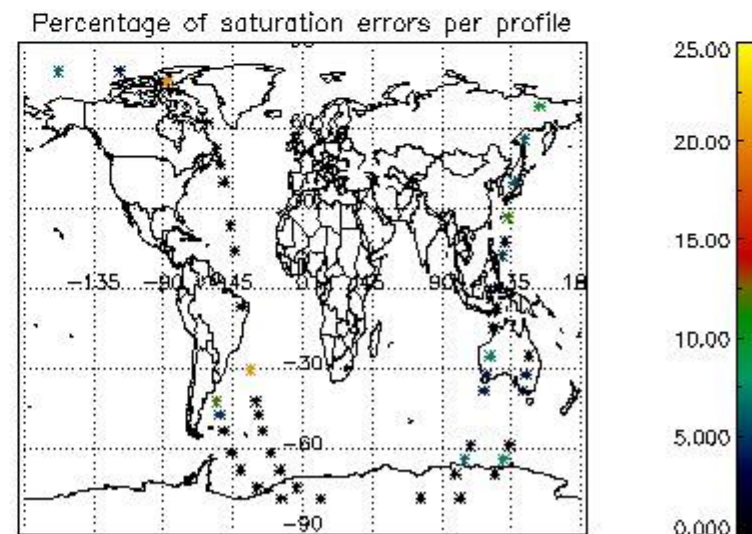
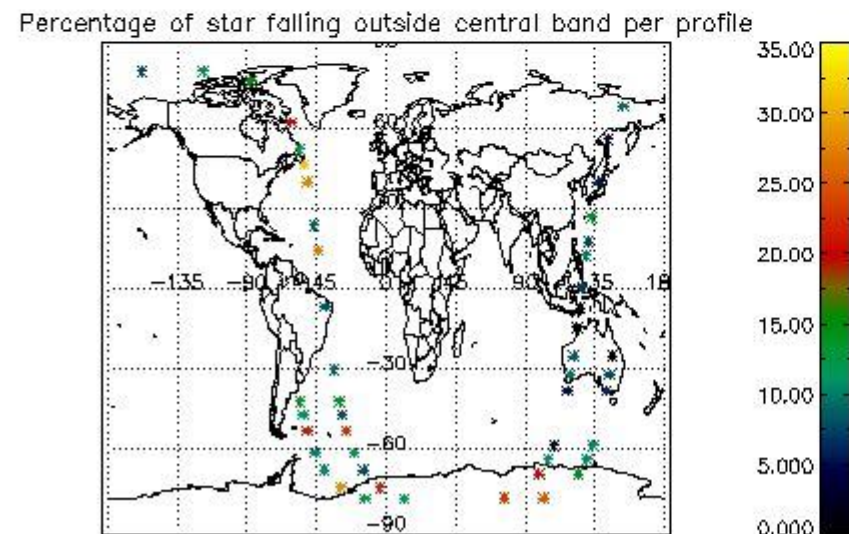
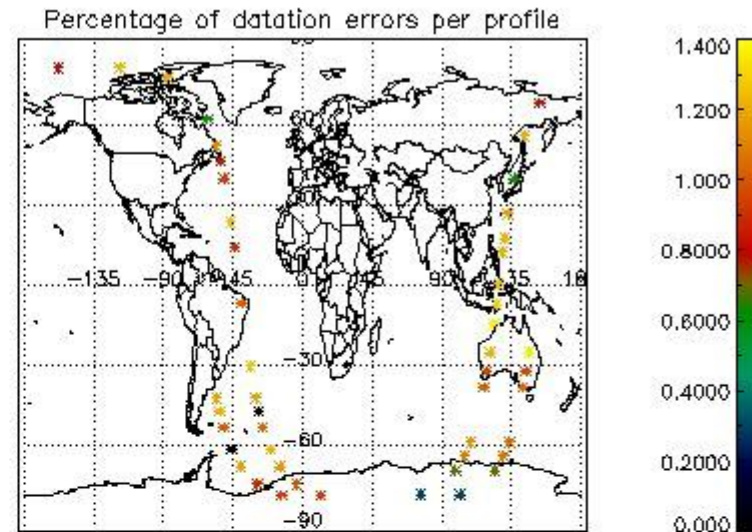
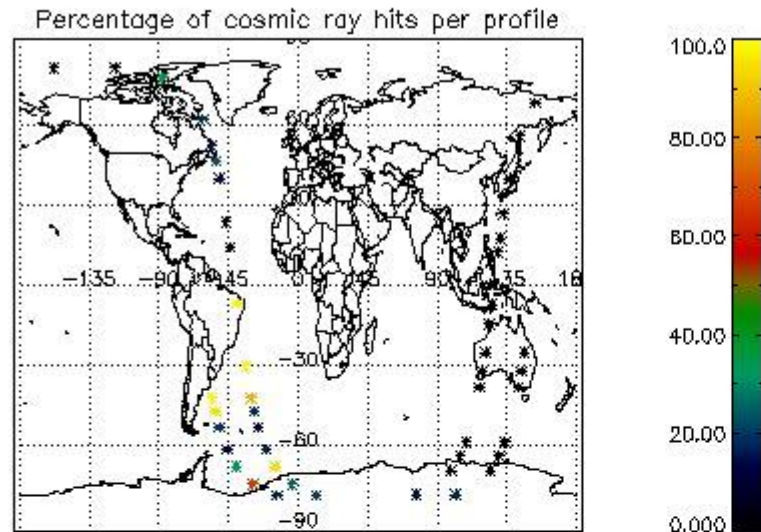
At least one measurement with demodulation flag set:	20.8333 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





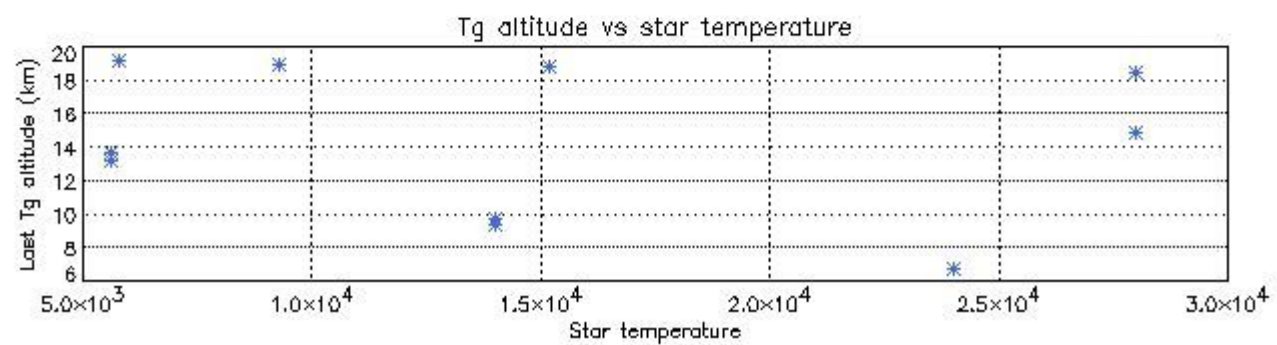
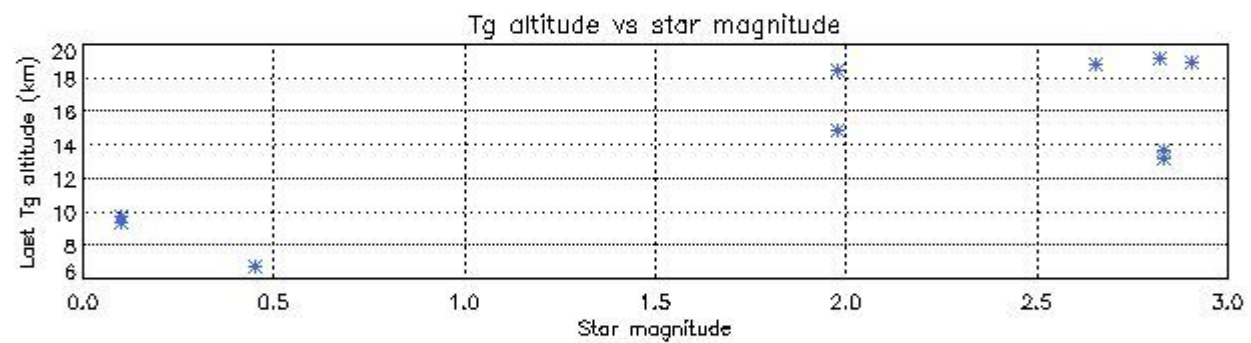
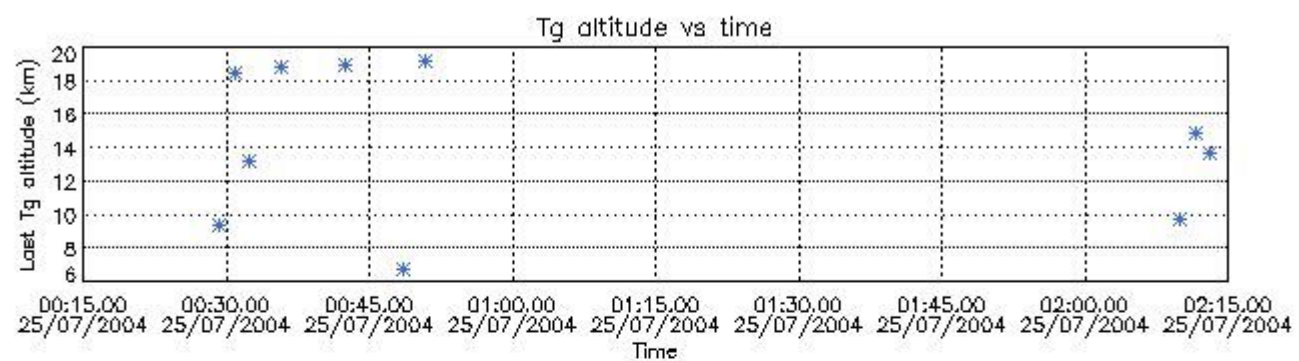
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.285	20.387	12.450
St. deviation:	4.5594	4.6176	3.9084
Maximum:	19.194	30.724	16.447
Minimum:	6.7079	11.674	4.5385
Number of data:	10.000	23.000	15.000

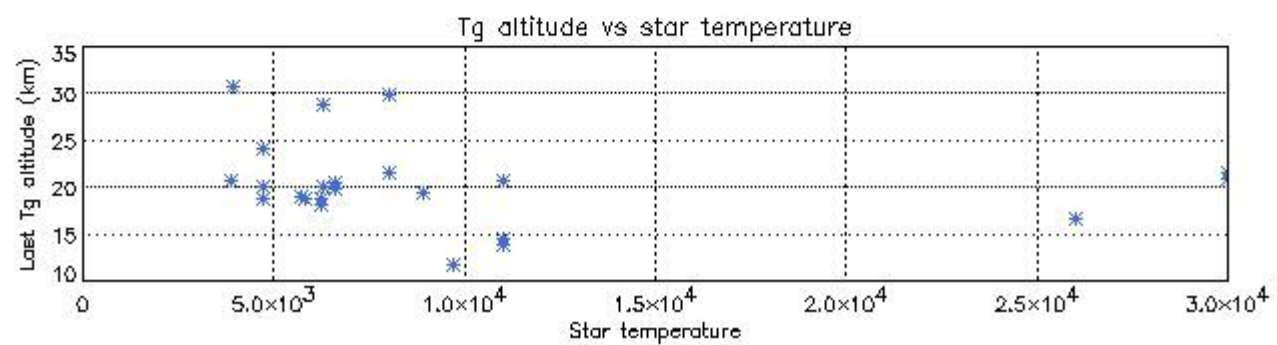
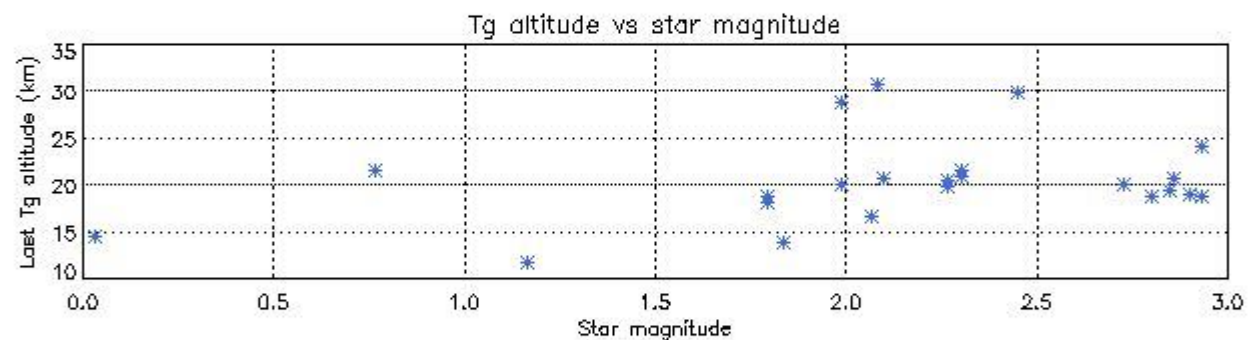
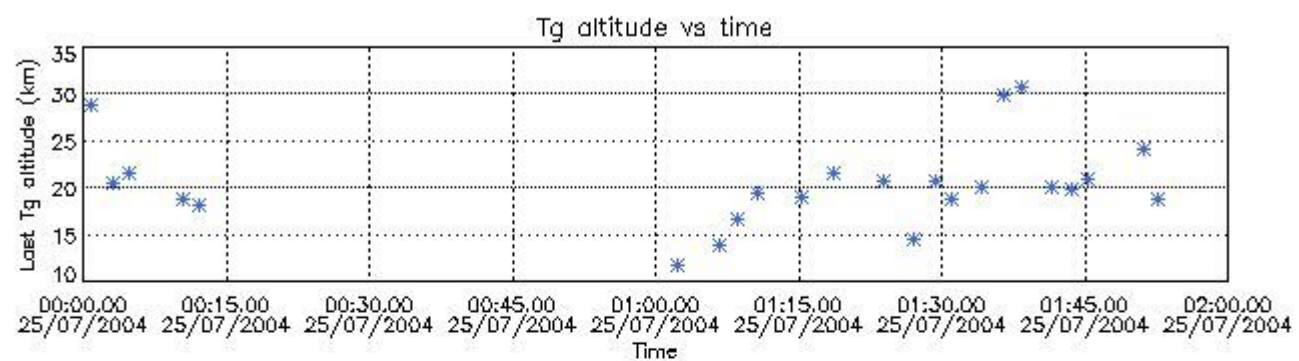
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

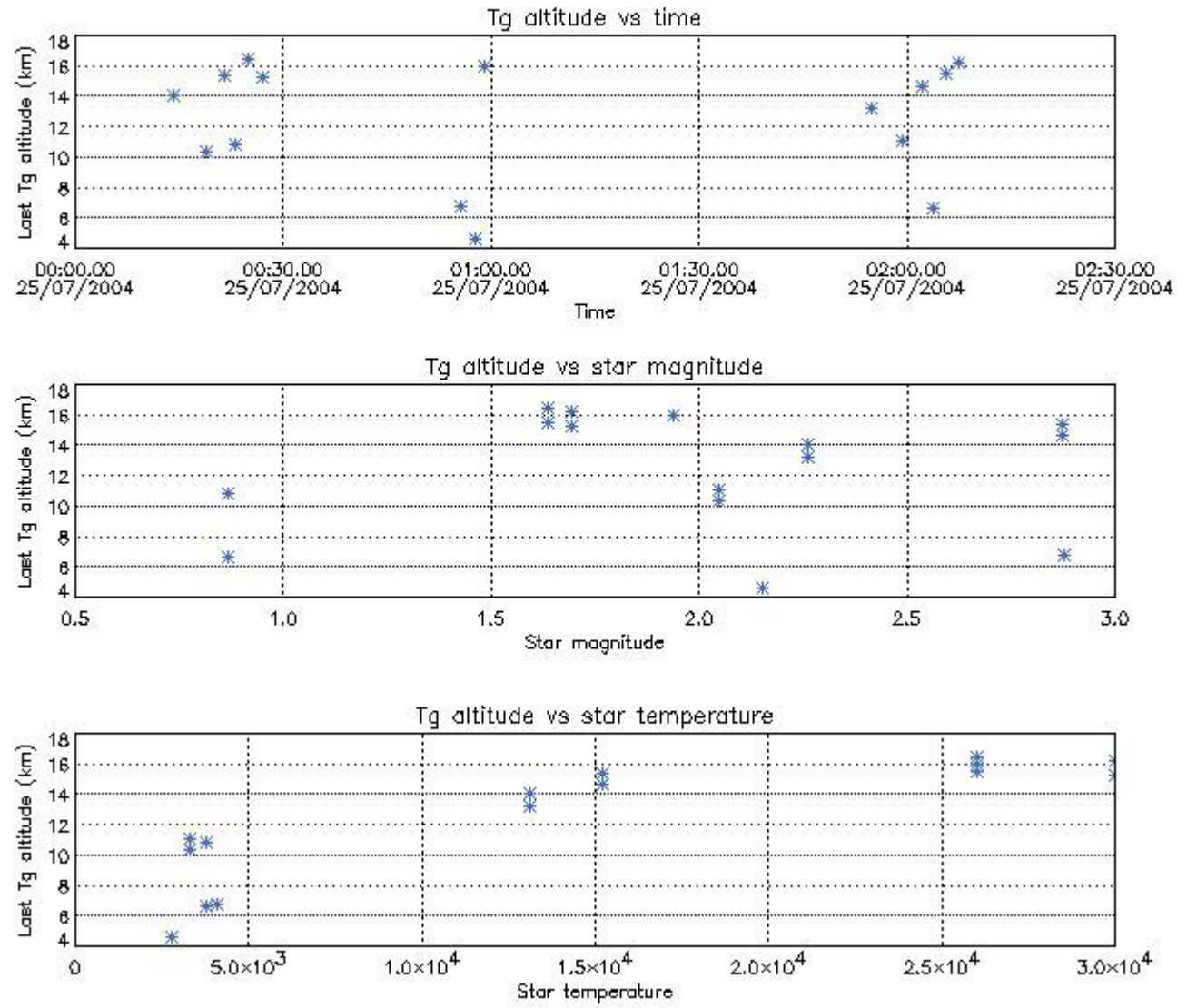
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



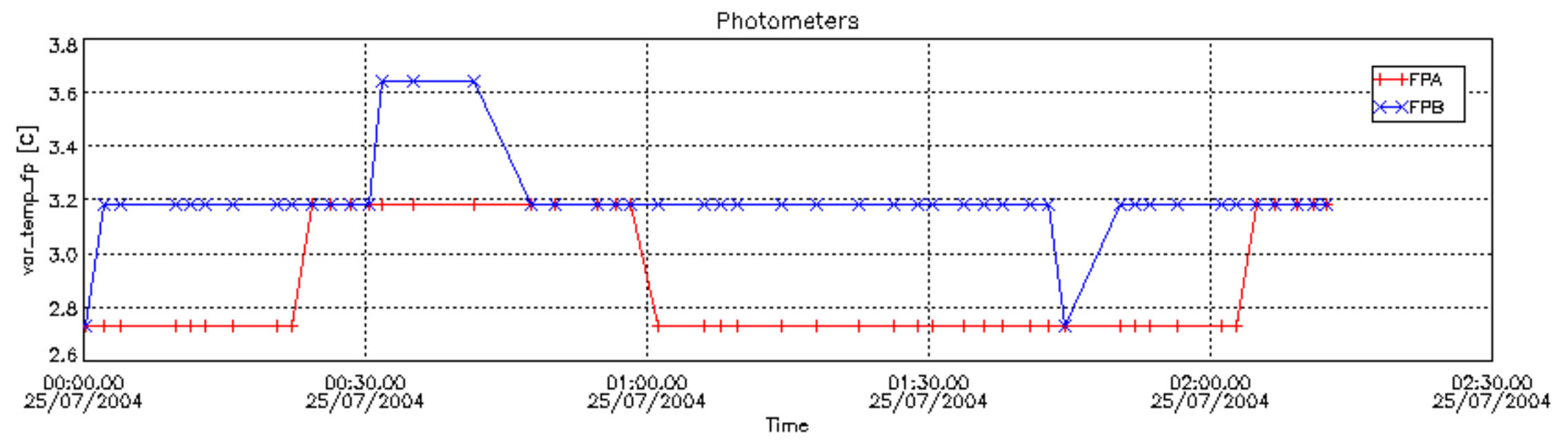
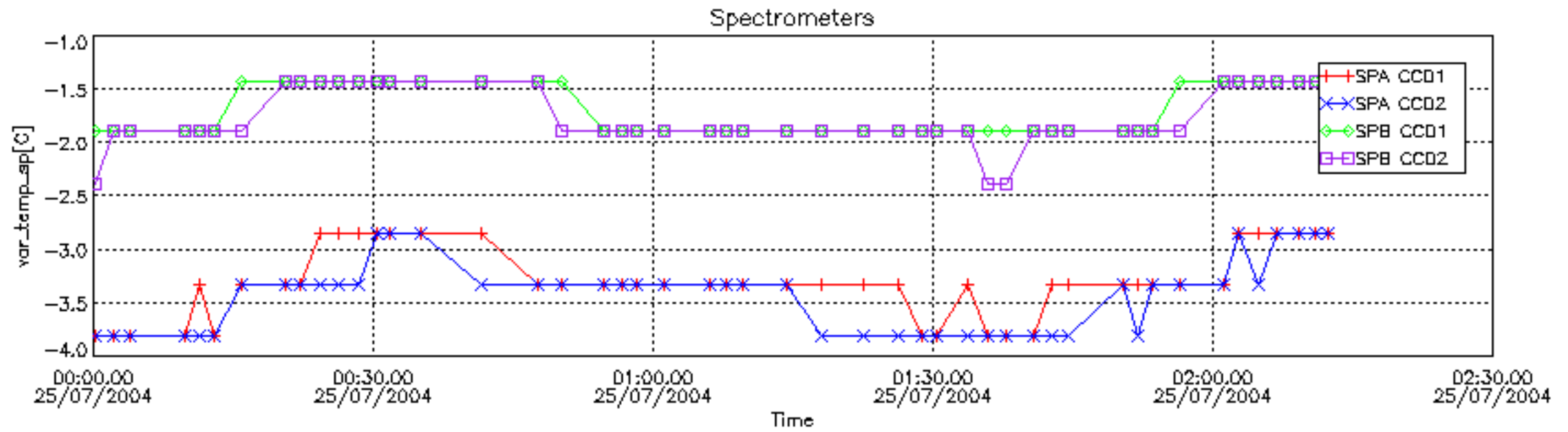
## Tangent altitude at which the star is lost

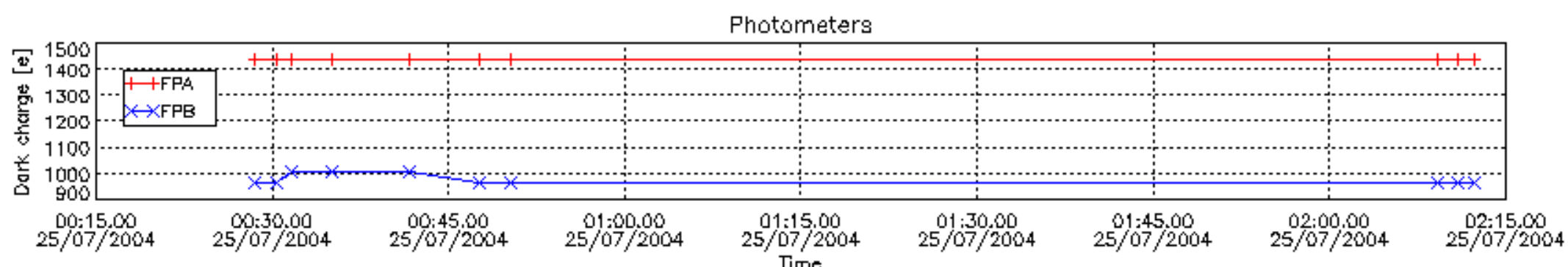
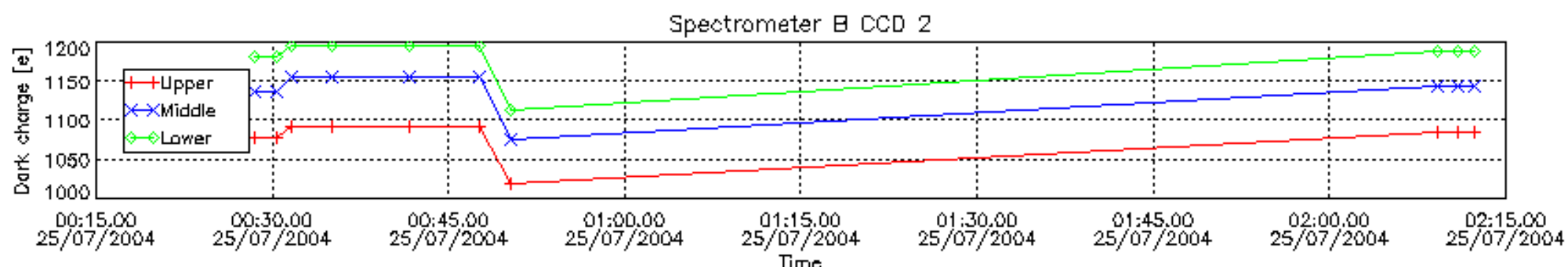
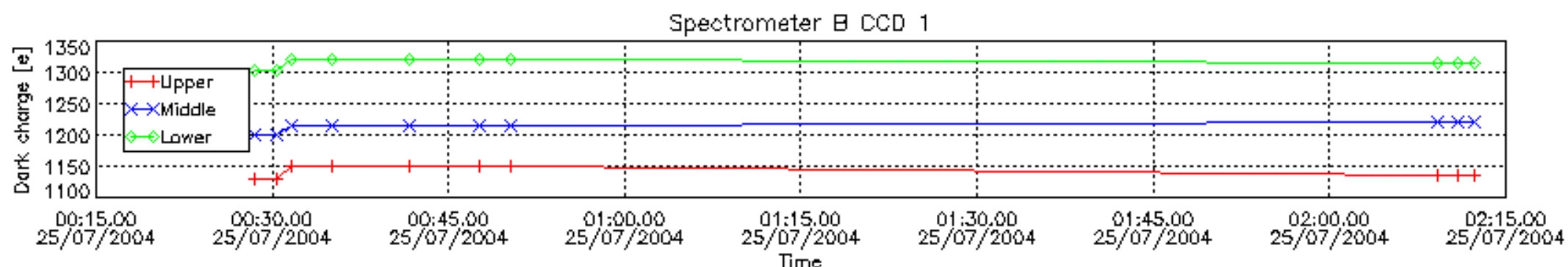
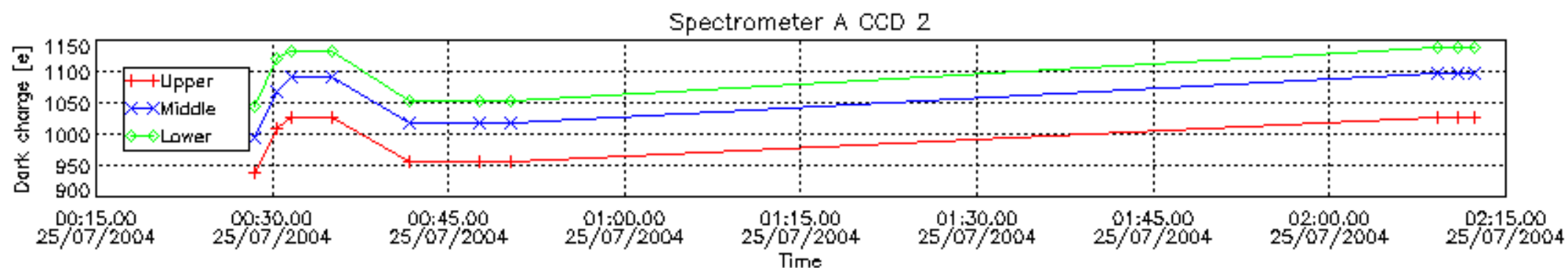
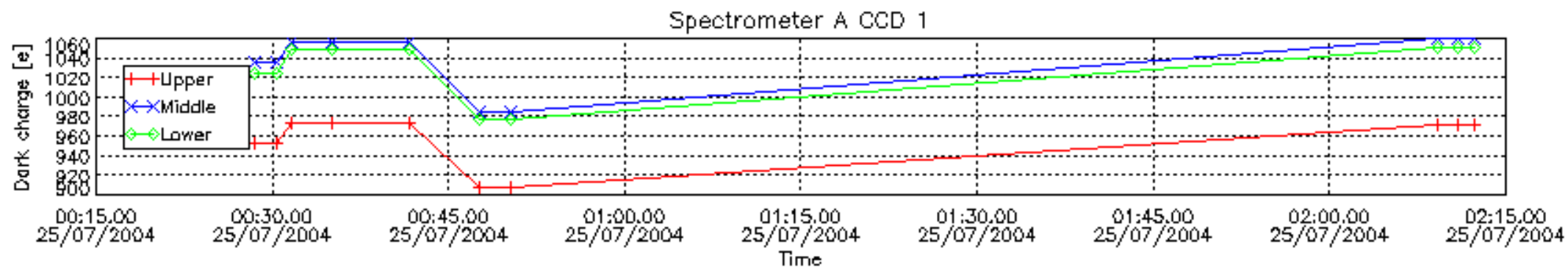


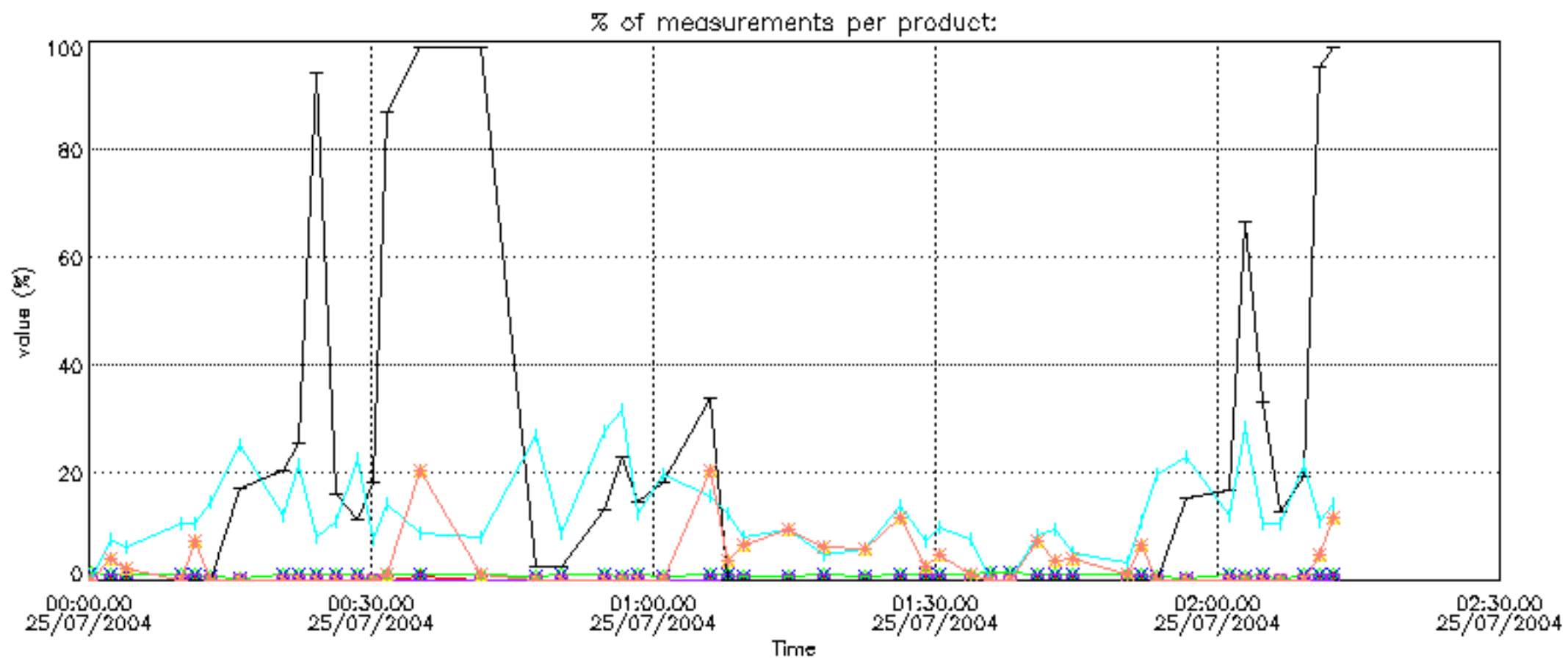
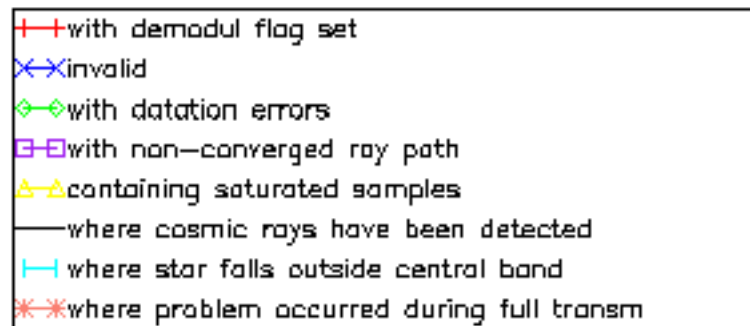
## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1459.7	1446.0	1462.4	1447.7
St. deviation:	5.7246	6.3384	6.4229	7.0271
Maximum:	1559.0	1534.0	1505.0	1491.0
Minimum:	1438.0	1428.0	1450.0	1432.0
Number of data:	11600.	11600.	28850.	28850.

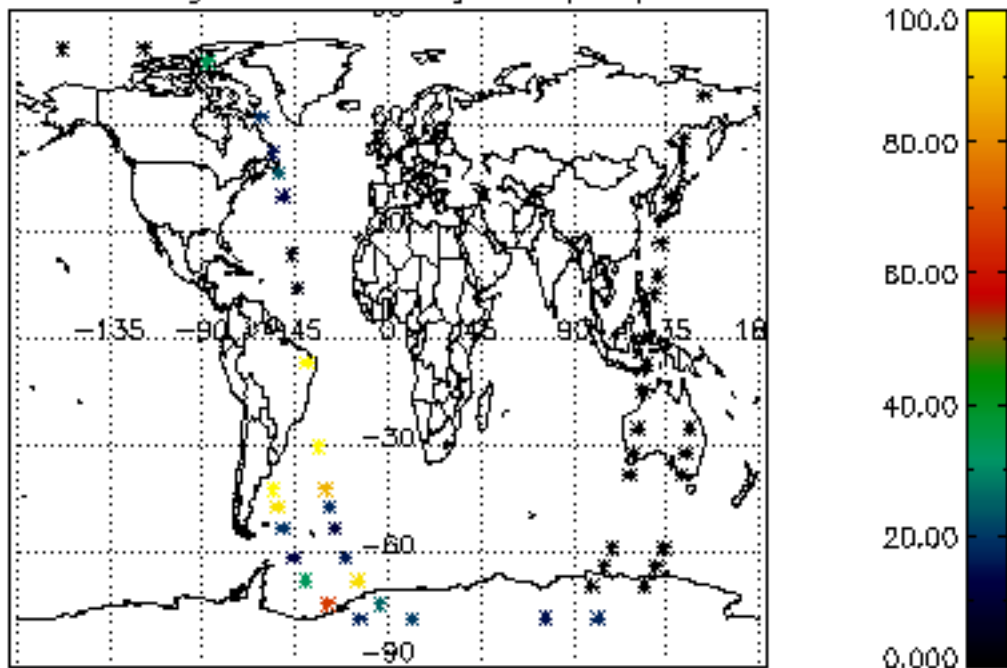




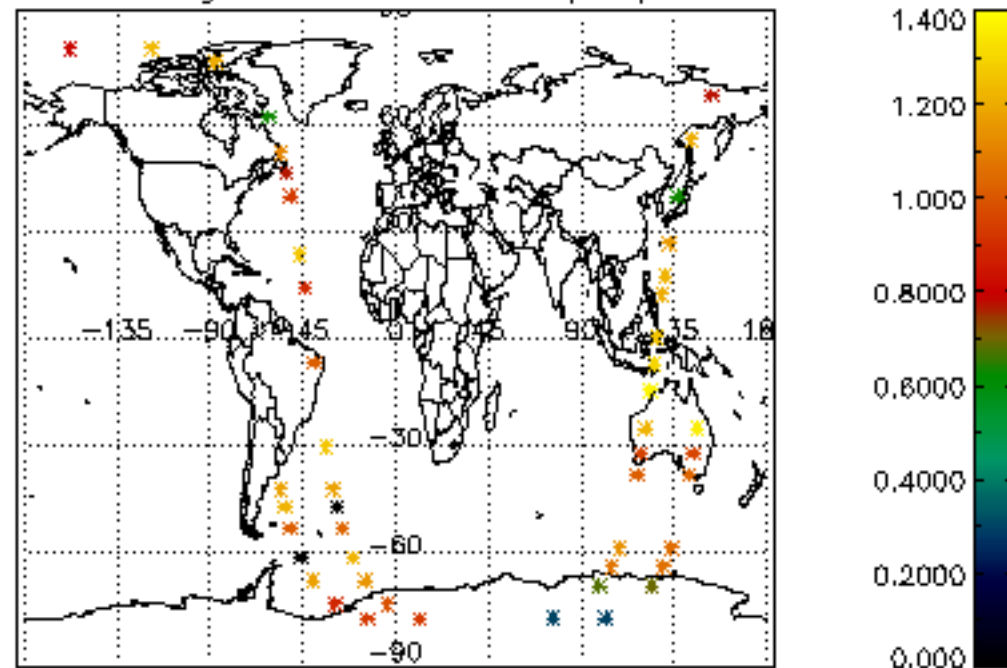




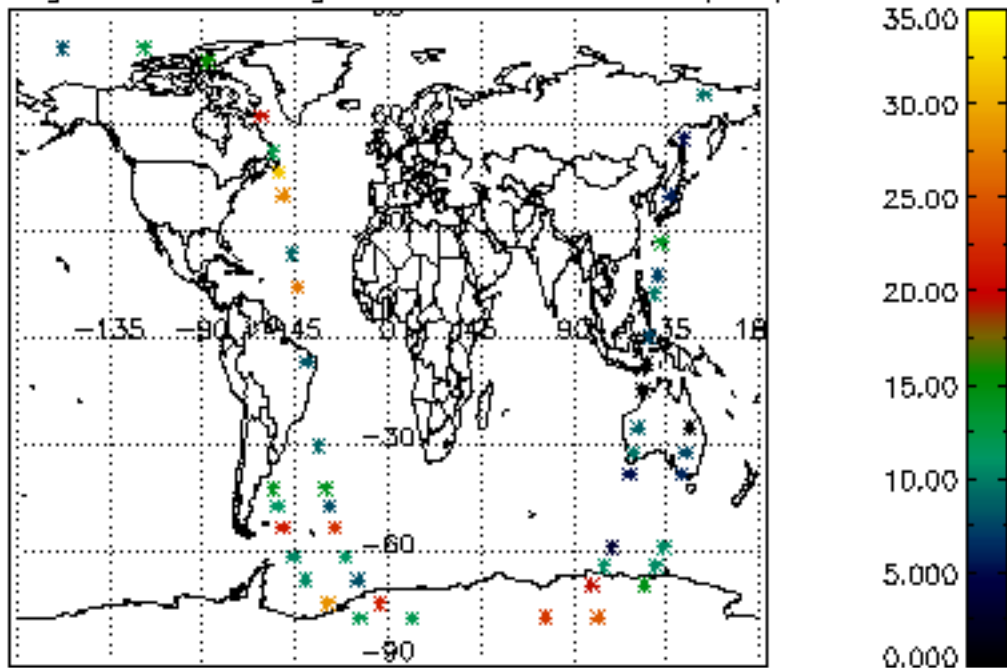
Percentage of cosmic ray hits per profile



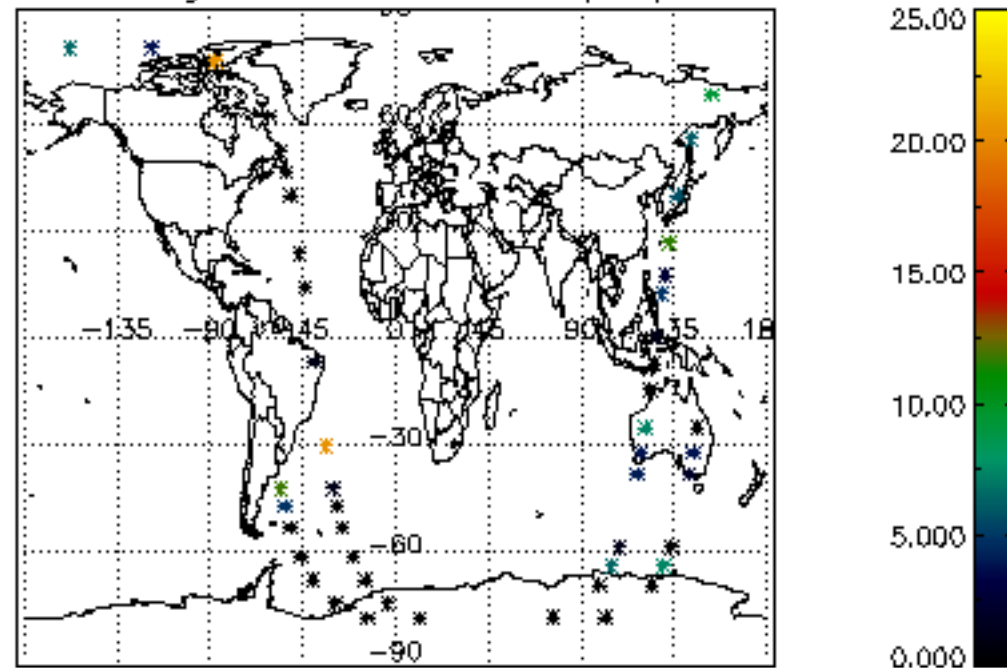
Percentage of datation errors per profile



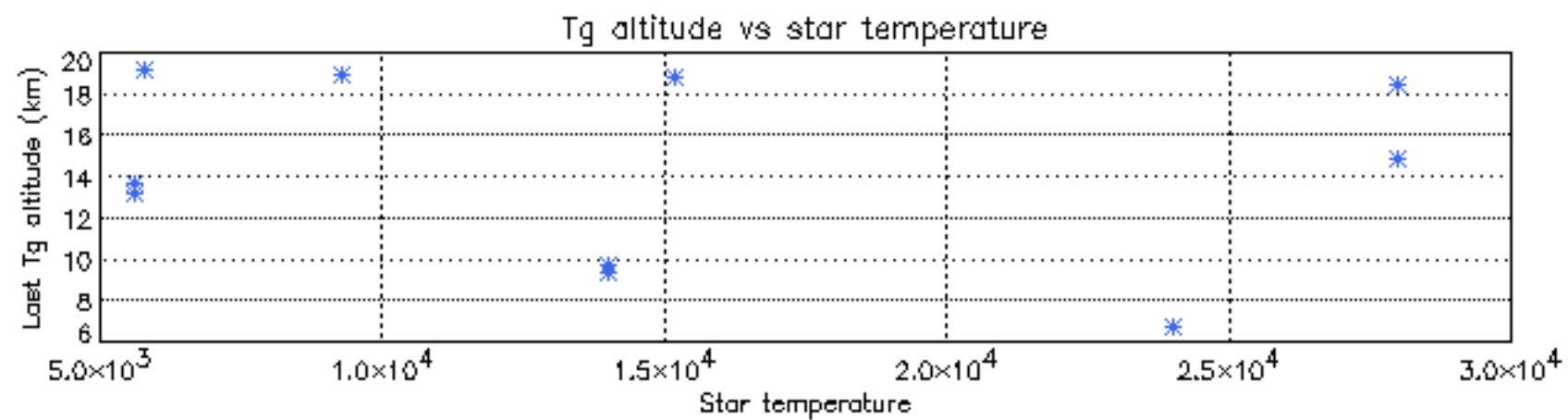
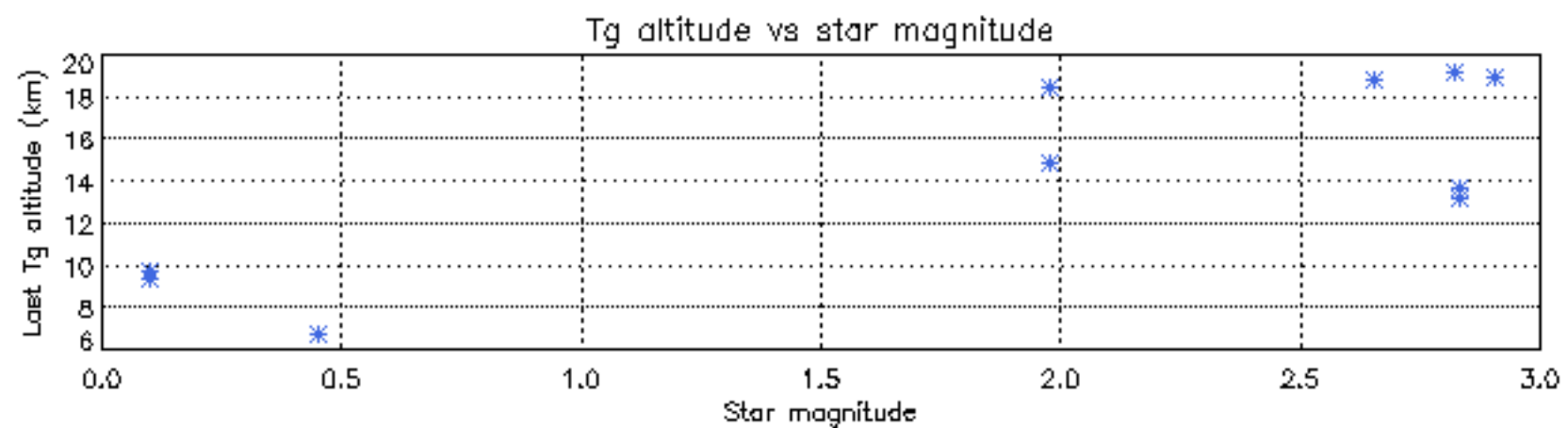
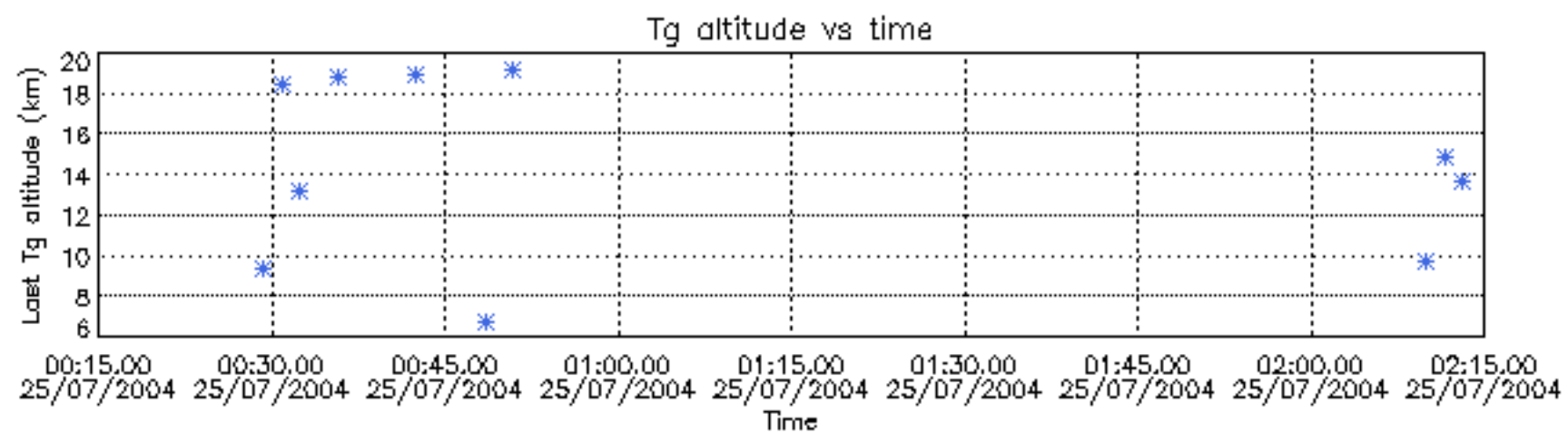
Percentage of star falling outside central band per profile



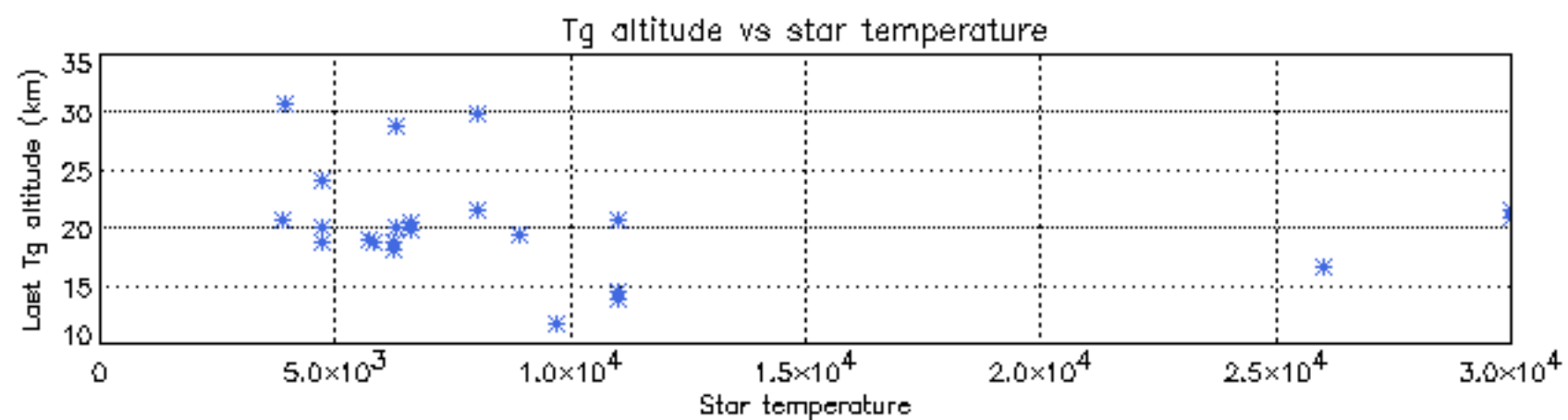
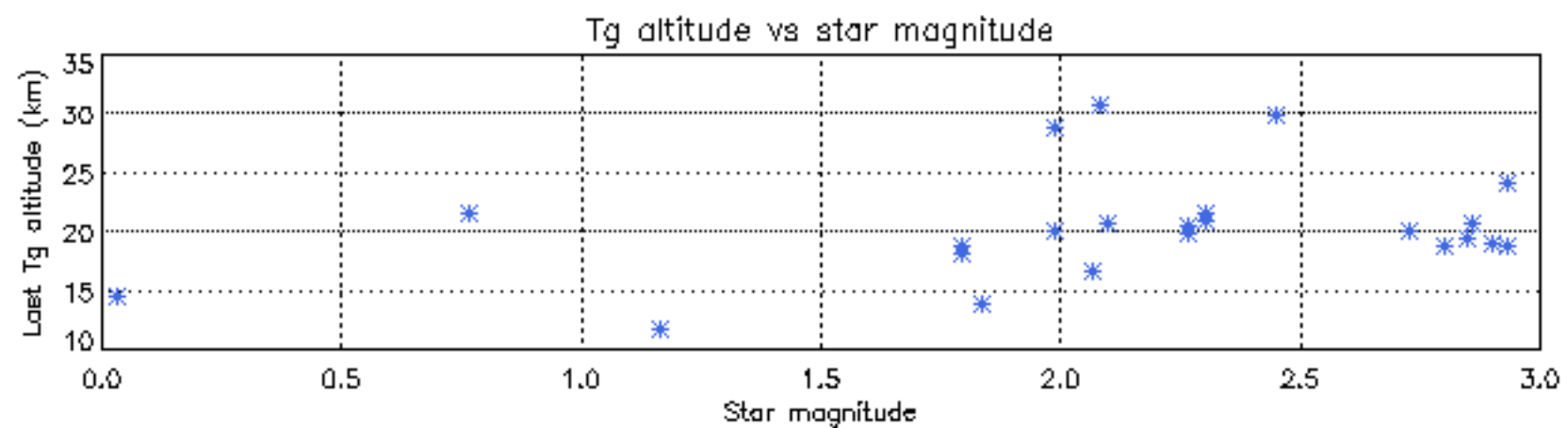
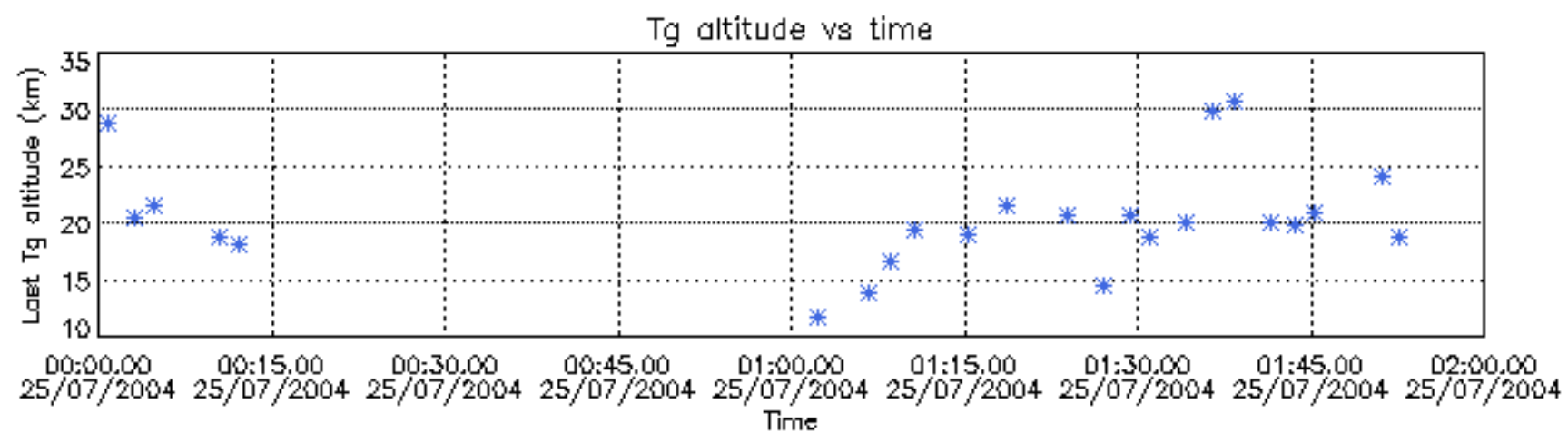
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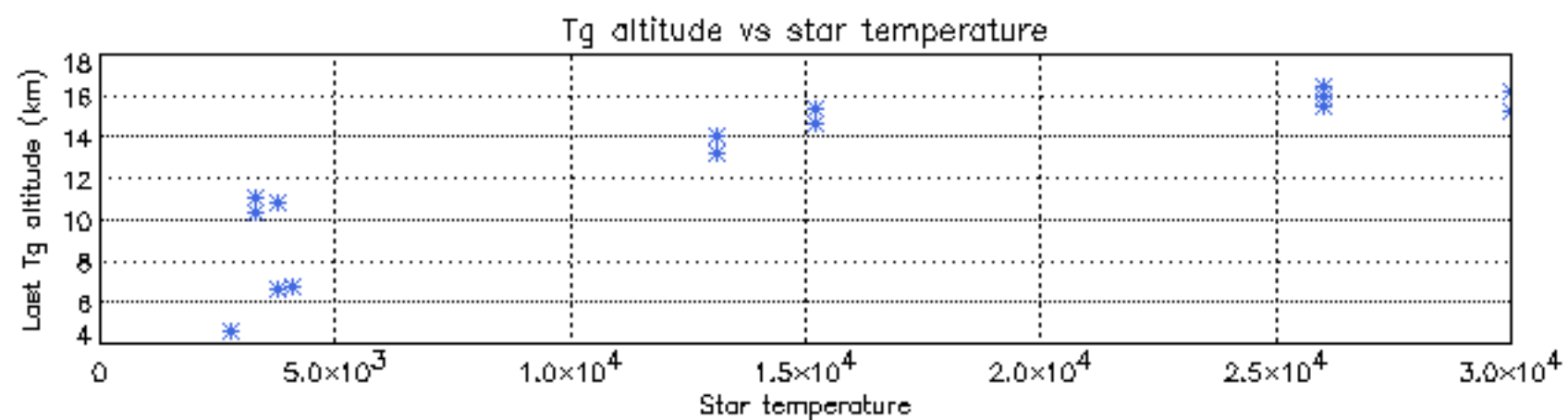
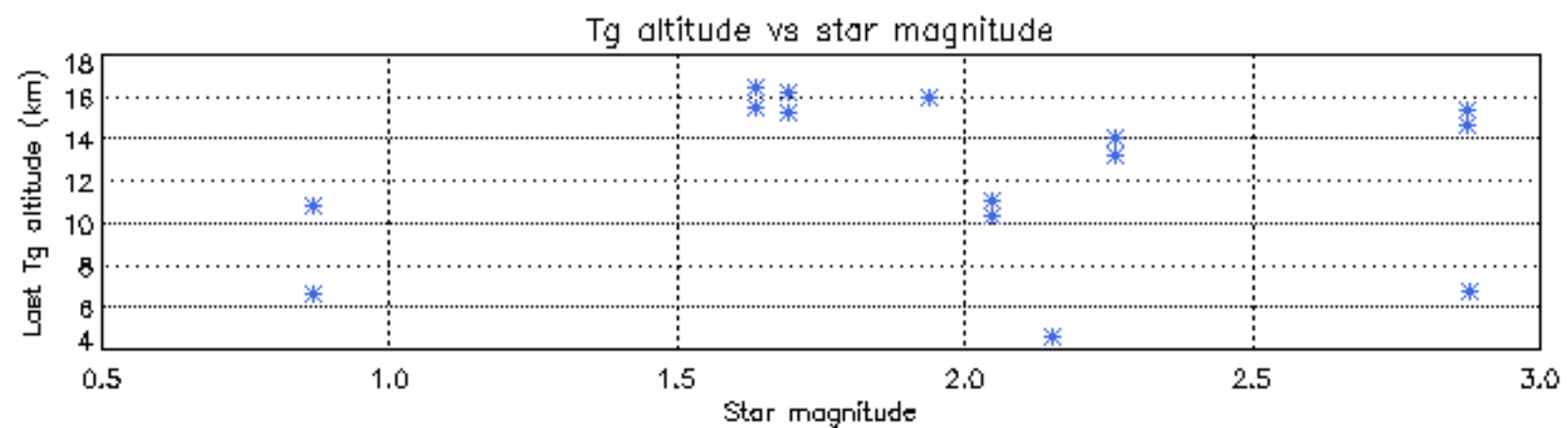
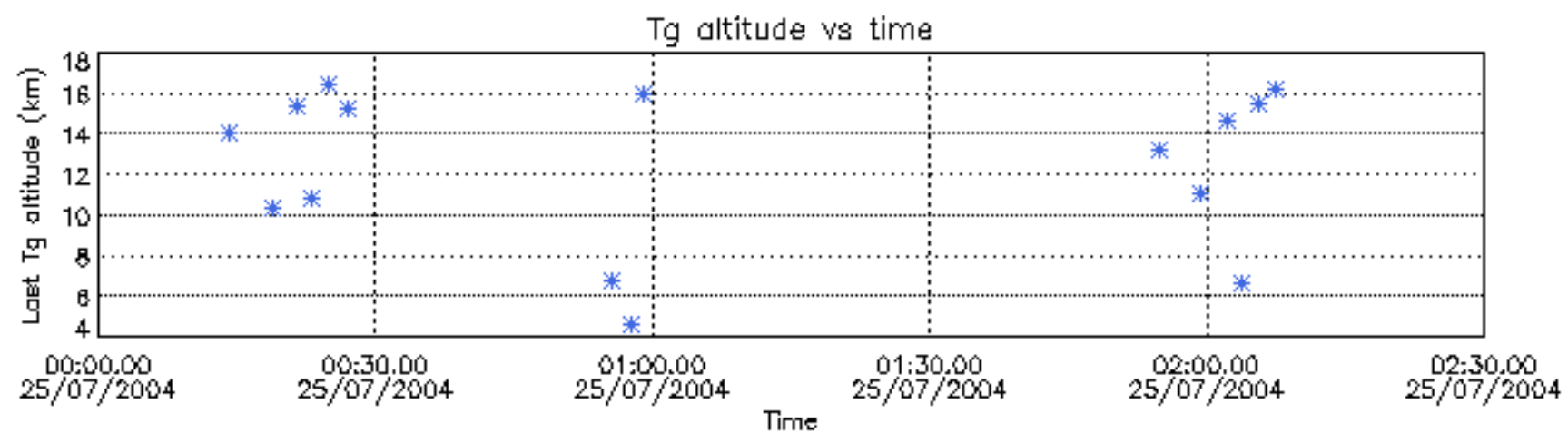
Tangent altitude at which the star is lost



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
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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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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
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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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16; 589.3; 01-JUL-2004 05:09:08; Dark ; 85.5; 18; 24Alp PsA ; 1.17; 9700;occ; 171; 0;12212
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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
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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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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
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7;-3389.4; 01-JUL-2004 07:24:02; Bright; 46.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 93; 0;12213
8;-3229.5; 01-JUL-2004 07:26:42; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;12213

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 22;-1979.3; 02-JUL-2004 19:00:07; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;12234  
 23;-1870.2; 02-JUL-2004 19:01:56; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;12234  
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 28;-1047.0; 02-JUL-2004 19:15:39; Dark ; 55.5; 94; 92Alp Cet ; 2.53; 3100;occ; 111; 0;12234  
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 33; 47.0; 02-JUL-2004 19:33:53; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;12235  
 34; 318.6; 02-JUL-2004 19:38:25; Dark ; 41.5; 135; Bet Hyi ; 2.82; 5800;occ; 83; 0;12235  
 35; 514.0; 02-JUL-2004 19:41:40; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;12235  
 36; 629.7; 02-JUL-2004 19:43:36; Dark ; 84.0; 18; 24Alp PsA ; 1.17; 9700;occ; 168; 0;12235  
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 13; -315.9; 03-JUL-2004 07:12:02; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;12241  
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 15; 53.7; 03-JUL-2004 07:18:11; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;12242  
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 17; 520.0; 03-JUL-2004 07:25:57; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;12242  
 18; 641.0; 03-JUL-2004 07:27:59; Dark ; 90.5; 18; 24Alp PsA ; 1.17; 9700;occ; 181; 0;12242  
 19; 812.9; 03-JUL-2004 07:30:50; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;12242  
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 24; 1363.3; 03-JUL-2004 07:40:01; Dark ; 51.5; 116; 19Del Sgr ; 2.70; 4100;occ; 103; 0;12242  
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4;	-4055.3;	03-JUL-2004 07:50:18;	Bright;	37.0;	126;	60Bet Oph	;	2.77;	4250;occ;	74;	0;	12242	
5;	-3916.4;	03-JUL-2004 07:52:37;	Bright;	40.0;	59;	55Alp Oph	;	2.08;	8900;occ;	80;	0;	12242	
6;	-3747.6;	03-JUL-2004 07:55:26;	Bright;	39.0;	127;	27Bet Her	;	2.78;	4700;occ;	78;	0;	12242	
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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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18;	-1774.2;	03-JUL-2004 08:28:19;	Bright;	54.5;	73;	57Gam1And	;	2.26;	13100;occ;	109;	0;	12242	
19;	-1617.5;	03-JUL-2004 08:30:56;	Dark	;	83.0;	53;	43Bet And	;	2.05;	3300;occ;	166;	0;	12242
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21;	-1344.4;	03-JUL-2004 08:35:29;	Dark	;	66.0;	50;	13Alp Ari	;	2.01;	4250;occ;	132;	0;	12242
22;	-1042.6;	03-JUL-2004 08:40:31;	Dark	;	54.0;	94;	92Alp Cet	;	2.53;	3100;occ;	108;	0;	12242
23;	-825.2;	03-JUL-2004 08:44:08;	Dark	;	42.5;	165;	34Gam Eri	;	2.95;	3200;occ;	85;	0;	12242
24;	-498.5;	03-JUL-2004 08:49:35;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12242
25;	-315.1;	03-JUL-2004 08:52:38;	Dark	;	41.0;	157;	The1Eri	;	2.91;	9300;occ;	82;	0;	12242
26;	-101.9;	03-JUL-2004 08:56:12;	Dark	;	80.5;	52;	16Bet Cet	;	2.04;	4500;occ;	161;	0;	12242
27;	54.2;	03-JUL-2004 08:58:48;	Dark	;	42.0;	9;	Alp Eri	;	0.45;	24000;occ;	84;	0;	12243
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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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2;	-4150.0;	03-JUL-2004 09:29:19;	Bright;	38.0;	120;	1Del Oph	;	2.73;	3200;occ;	76;	0;	12243	
3;	-4055.2;	03-JUL-2004 09:30:54;	Bright;	37.0;	126;	60Bet Oph	;	2.77;	4250;occ;	74;	0;	12243	
4;	-3916.5;	03-JUL-2004 09:33:13;	Bright;	37.0;	59;	55Alp Oph	;	2.08;	8900;occ;	74;	0;	12243	
5;	-3747.6;	03-JUL-2004 09:36:02;	Bright;	37.0;	127;	27Bet Her	;	2.78;	4700;occ;	74;	0;	12243	
6;	-3585.9;	03-JUL-2004 09:38:43;	Bright;	37.5;	133;	40Zet Her	;	2.81;	6000;occ;	75;	0;	12243	
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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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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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19;	-1450.8;	03-JUL-2004 10:14:19;	Dark	;	42.0;	146;	25Eta Tau	;	2.87;	15200;occ;	84;	0;	12243
20;	-1343.5;	03-JUL-2004 10:16:06;	Dark	;	61.5;	50;	13Alp Ari	;	2.01;	4250;occ;	123;	0;	12243
21;	-1042.1;	03-JUL-2004 10:21:07;	Dark	;	52.5;	94;	92Alp Cet	;	2.53;	3100;occ;	105;	0;	12243
22;	-825.2;	03-JUL-2004 10:24:44;	Dark	;	44.0;	165;	34Gam Eri	;	2.95;	3200;occ;	88;	0;	12243
23;	-497.5;	03-JUL-2004 10:30:12;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12243
24;	-315.0;	03-JUL-2004 10:33:14;	Dark	;	41.0;	157;	The1Eri	;	2.91;	9300;occ;	82;	0;	12243
25;	-99.1;	03-JUL-2004 10:36:50;	Dark	;	90.0;	52;	16Bet Cet	;	2.04;	4500;occ;	180;	0;	12243
26;	54.8;	03-JUL-2004 10:39:24;	Dark	;	46.0;	9;	Alp Eri	;	0.45;	24000;occ;	92;	0;	12244
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30;	815.0;	03-JUL-2004 10:52:04;	Dark	;	59.0;	172;	Gam Gru	;	3.00;	13100;occ;	118;	0;	12244
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9; 1013.3; 22-JUL-2004 02:35:18; Dark ; 77.5; 18; 24Alp PsA ; 1.17; 9700;occ; 155; 0;12511
10; 1262.4; 22-JUL-2004 02:39:27; Dark ; 40.5; 178; Iot1Sco ; 3.02; 6550;occ; 81; 0;12511
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12; 1448.7; 22-JUL-2004 02:42:33; Bright; 41.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 83; 0;12511
13; 1556.4; 22-JUL-2004 02:44:21; Bright; 67.5; 142; 49Del Cap ; 2.85; 8900;occ; 135; 0;12511
14; 2008.6; 22-JUL-2004 02:51:53; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;12511
15; 2141.7; 22-JUL-2004 02:54:06; Bright; 40.5; 168; 17Zet Aql ; 2.99; 11000;occ; 81; 0;12511
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18; 2844.3; 22-JUL-2004 03:05:49; Bright; 47.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 95; 0;12511
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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
16;	213.1;	22-JUL-2004	04:02:34;	Dark	;	45.0;	9;	Alp Eri	;	0.45;	24000;occ;	90;	0;	12512
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	
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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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 18; 653.6; 22-JUL-2004 07:31:06; Dark ; 45.0; 148; Alp Tuc ; 2.88; 4100;occ; 90; 0;12514  
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13;-715.9; 24-JUL-2004 02:43:51; Dark ; 42.5; 139; 9Bet Lep ; 2.83; 5600;occ; 85; 0;12539
14;-370.4; 24-JUL-2004 02:49:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12539
15;-123.5; 24-JUL-2004 02:53:43; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;12539
16; 231.8; 24-JUL-2004 02:59:38; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;12540

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24; 1855.2; 24-JUL-2004 03:26:42; Bright; 66.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 133; 0;12540
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31; 3141.0; 24-JUL-2004 03:48:08; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;12540
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33; 3440.7; 24-JUL-2004 03:53:07; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;12540
34; 3563.5; 24-JUL-2004 03:55:10; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;12540
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16; 232.4; 24-JUL-2004 04:40:15; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;12541
17; 396.4; 24-JUL-2004 04:42:59; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;12541
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23; 1558.0; 24-JUL-2004 05:02:21; Bright; 65.5; 142; 49Del Cap ; 2.85; 8900;occ; 131; 0;12541
24; 1854.3; 24-JUL-2004 05:07:17; Bright; 66.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 133; 0;12541
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31; 3139.9; 24-JUL-2004 05:28:43; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;12541
32; 3256.5; 24-JUL-2004 05:30:39; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;12541
33; 3440.9; 24-JUL-2004 05:33:44; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;12541
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 7;-1381.2; 24-JUL-2004 05:53:58; Dark ; 54.5; 146; 25Eta Tau ; 2.87; 15200;occ; 109; 0;12541
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12; -796.3; 24-JUL-2004 06:03:42; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;12541
13; -715.5; 24-JUL-2004 06:05:03; Dark ; 43.0; 139; 9Bet Lep ; 2.83; 5600;occ; 86; 0;12541

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20;	857.1;	24-JUL-2004	06:31:16;	Dark	;	48.5;	31;	Alp Gru	;	1.73;	15200;occ;	97;	0;	12542
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22;	1342.7;	24-JUL-2004	06:39:21;	Dark	;	43.0;	38;	20Eps Sgr	;	1.84;	11000;occ;	86;	0;	12542
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24;	1557.3;	24-JUL-2004	06:42:56;	Bright;	;	65.0;	142;	49Del Cap	;	2.85;	8900;occ;	130;	0;	12542
25;	1853.9;	24-JUL-2004	06:47:53;	Bright;	;	67.5;	154;	22Bet Aqr	;	2.90;	5700;occ;	135;	0;	12542
26;	2071.0;	24-JUL-2004	06:51:30;	Bright;	;	43.0;	11;	53Alp Aql	;	0.76;	8000;occ;	86;	0;	12542
27;	2357.9;	24-JUL-2004	06:56:17;	Bright;	;	85.5;	61;	8Eps Peg	;	2.10;	3900;occ;	171;	0;	12542
28;	2567.2;	24-JUL-2004	06:59:46;	Bright;	;	35.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	71;	0;	12542
29;	2722.8;	24-JUL-2004	07:02:22;	Bright;	;	40.5;	144;	18Del Cyg	;	2.86;	11000;occ;	81;	0;	12542
30;	2824.1;	24-JUL-2004	07:04:03;	Bright;	;	47.0;	19;	50Alp Cyg	;	1.25;	10500;occ;	94;	0;	12542
31;	3002.9;	24-JUL-2004	07:07:02;	Bright;	;	37.5;	119;	14Eta Dra	;	2.73;	4700;occ;	75;	0;	12542
32;	3139.6;	24-JUL-2004	07:09:18;	Bright;	;	41.5;	89;	5Alp Cep	;	2.45;	8000;occ;	83;	0;	12542
33;	3257.0;	24-JUL-2004	07:11:16;	Bright;	;	38.0;	60;	7Bet UMi	;	2.08;	3950;occ;	76;	0;	12542
34;	3441.0;	24-JUL-2004	07:14:20;	Bright;	;	37.5;	49;	1Alp UMi	;	1.99;	6300;occ;	75;	0;	12542
35;	3561.3;	24-JUL-2004	07:16:20;	Bright;	;	53.0;	74;	11Bet Cas	;	2.27;	6600;occ;	106;	0;	12542
36;	3665.7;	24-JUL-2004	07:18:04;	Bright;	;	49.5;	76;	27Gam Cas	;	2.30;	30000;occ;	99;	0;	12542
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2;	-2025.2;	24-JUL-2004	07:23:50;	Bright;	;	46.5;	160;	23Gam Per	;	2.93;	4700;occ;	93;	0;	12542
3;	-1934.8;	24-JUL-2004	07:25:20;	Bright;	;	49.0;	35;	33Alp Per	;	1.79;	6250;occ;	98;	0;	12542
4;	-1832.4;	24-JUL-2004	07:27:02;	Bright;	;	72.0;	73;	57Gam1And	;	2.26;	13100;occ;	144;	0;	12542
5;	-1652.7;	24-JUL-2004	07:30:02;	Dark	;	158.5;	53;	43Bet And	;	2.05;	3300;occ;	317;	0;	12542
6;	-1380.8;	24-JUL-2004	07:34:34;	Dark	;	52.0;	146;	25Eta Tau	;	2.87;	15200;occ;	104;	0;	12542
7;	-1284.8;	24-JUL-2004	07:36:10;	Dark	;	57.5;	13;	87Alp Tau	;	0.87;	3800;occ;	115;	0;	12542
8;	-1160.0;	24-JUL-2004	07:38:15;	Dark	;	43.5;	27;	24Gam Ori	;	1.64;	26000;occ;	87;	0;	12542
9;	-1044.3;	24-JUL-2004	07:40:10;	Dark	;	43.0;	30;	46Eps Ori	;	1.69;	30000;occ;	86;	0;	12542
10;	-905.4;	24-JUL-2004	07:42:29;	Dark	;	46.5;	7;	19Bet Ori	;	0.10;	14000;occ;	93;	0;	12542
11;	-796.1;	24-JUL-2004	07:44:19;	Dark	;	40.0;	47;	2Bet CMa	;	1.98;	28000;occ;	80;	0;	12542
12;	-715.6;	24-JUL-2004	07:45:39;	Dark	;	42.0;	139;	9Bet Lep	;	2.83;	5600;occ;	84;	0;	12542
13;	-507.9;	24-JUL-2004	07:49:07;	Dark	;	41.0;	108;	Alp Col	;	2.65;	15200;occ;	82;	0;	12542
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15;	-120.6;	24-JUL-2004	07:55:34;	Dark	;	43.5;	157;	The1Eri	;	2.91;	9300;occ;	87;	0;	12542
16;	233.9;	24-JUL-2004	08:01:29;	Dark	;	44.5;	9;	Alp Eri	;	0.45;	24000;occ;	89;	0;	12543
17;	397.2;	24-JUL-2004	08:04:12;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	12543
18;	668.2;	24-JUL-2004	08:08:43;	Dark	;	41.5;	148;	Alp Tuc	;	2.88;	4100;occ;	83;	0;	12543
19;	857.8;	24-JUL-2004	08:11:52;	Dark	;	47.5;	31;	Alp Gru	;	1.73;	15200;occ;	95;	0;	12543
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21;	1343.0;	24-JUL-2004	08:19:58;	Dark	;	41.0;	38;	20Eps Sgr	;	1.84;	11000;occ;	82;	0;	12543
22;	1457.2;	24-JUL-2004	08:21:52;	Bright;	;	39.5;	57;	34Sig Sgr	;	2.07;	26000;occ;	79;	0;	12543
23;	1557.5;	24-JUL-2004	08:23:32;	Bright;	;	63.5;	142;	49Del Cap	;	2.85;	8900;occ;	127;	0;	12543
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2;	-4182.5;	24-JUL-2004	08:28:28;	Bright;	;	65.5;	154;	22Bet Aqr	;	2.90;	5700;occ;	131;	0;	12543
3;	-3965.1;	24-JUL-2004	08:32:05;	Bright;	;	43.5;	11;	53Alp Aql	;	0.76;	8000;occ;	87;	0;	12543
4;	-3679.8;	24-JUL-2004	08:36:51;	Bright;	;	86.5;	61;	8Eps Peg	;	2.10;	3900;occ;	173;	0;	12543
5;	-3469.0;	24-JUL-2004	08:40:22;	Bright;	;	40.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	81;	0;	12543
6;	-3313.6;	24-JUL-2004	08:42:57;	Bright;	;	41.0;	144;	18Del Cyg	;	2.86;	11000;occ;	82;	0;	12543
7;	-3212.4;	24-JUL-2004	08:44:38;	Bright;	;	47.0;	19;	50Alp Cyg	;	1.25;	10500;occ;	94;	0;	12543
8;	-3032.7;	24-JUL-2004	08:47:38;	Bright;	;	38.5;	119;	14Eta Dra	;	2.73;	4700;occ;	77;	0;	12543
9;	-2897.0;	24-JUL-2004	08:49:54;	Bright;	;	41.5;	89;	5Alp Cep	;	2.45;	8000;occ;	83;	0;	12543
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14;	-2025.0;	24-JUL-2004	09:04:26;	Bright;	;	45.0;	160;	23Gam Per	;	2.93;	4700;occ;	90;	0;	12543
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16;	-1832.9;	24-JUL-2004	09:07:38;	Bright;	;	70.5;	73;	57Gam1And	;	2.26;	13100;occ;	141;	0;	12543
17;	-1652.9;	24-JUL-2004	09:10:38;	Dark	;	155.5;	53;	43Bet And	;	2.05;	3300;occ;	311;	0;	12543
18;	-1382.4;	24-JUL-2004	09:15:08;	Dark	;	54.0;	146;	25Eta Tau	;	2.87;	15200;occ;	108;	0;	12543
19;	-1284.5;	24-JUL-2004	09:16:46;	Dark	;	55.0;	13;	87Alp Tau	;	0.87;	3800;occ;	110;	0;	12543
20;	-1160.5;	24-JUL-2004	09:18:50;	Dark	;	45.0;	27;	24Gam Ori	;	1.64;	26000;occ;	90;	0;	12543



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22; -905.2; 24-JUL-2004 09:23:05; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;12543
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