

# GOMOS Daily Report 12-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	13JUL2004 10:18:27
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START) (12JUL2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (13JUL2004 00:00:00)

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

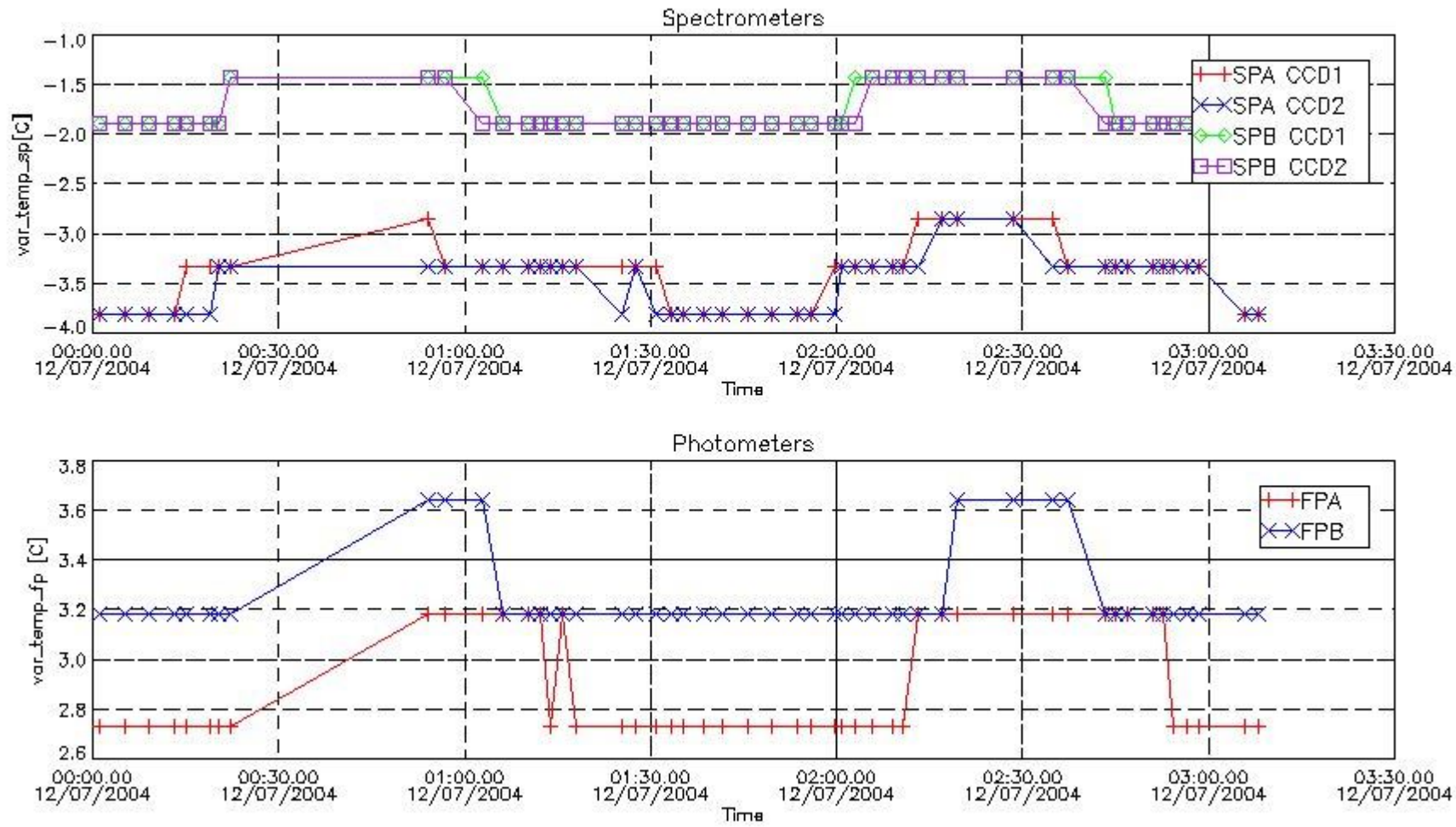
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20040712_000059_000000422028_00288_12366_0017.N1	12-JUL-2004 00:00:59	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	12366	No
GOM_TRA_1PNPDE20040712_000511_000000402028_00288_12366_0018.N1	12-JUL-2004 00:05:11	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	12366	No
GOM_TRA_1PNPDE20040712_000856_000000362028_00288_12366_0019.N1	12-JUL-2004 00:08:56	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	12366	No
GOM_TRA_1PNPDE20040712_001303_000000522028_00288_12366_0020.N1	12-JUL-2004 00:13:03	Bright	52.000	74	11Bet Cas	2.2680	6600.0	104	12366	No
GOM_TRA_1PNPDE20040712_001511_000000622028_00288_12366_0021.N1	12-JUL-2004 00:15:11	Bright	62.000	110	37Del Cas	2.6780	8900.0	124	12366	No
GOM_TRA_1PNPDE20040712_001859_000000442028_00288_12366_0022.N1	12-JUL-2004 00:18:59	Bright	44.000	160	23Gam Per	2.9300	4700.0	88	12366	No
GOM_TRA_1PNPDE20040712_002015_000000432028_00288_12366_0023.N1	12-JUL-2004 00:20:15	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	12366	No
GOM_TRA_1PNPDE20040712_002221_000000592028_00288_12366_0024.N1	12-JUL-2004 00:22:21	Twilight	58.500	73	57Gam1And	2.2600	13100.	117	12366	No
GOM_TRA_1PNPDE20040712_005412_000000542028_00289_12367_0000.N1	12-JUL-2004 00:54:12	Dark	54.000	9	Alp Eri	0.45300	24000.	108	12367	No
GOM_TRA_1PNPDE20040712_005642_000000552028_00289_12367_0001.N1	12-JUL-2004 00:56:42	Dark	55.000	84	Alp Phe	2.3970	4500.0	110	12367	No
GOM_TRA_1PNPDE20040712_010245_000000662028_00289_12367_0002.N1	12-JUL-2004 01:02:45	Twilight	65.500	63	Bet Gru	2.1500	2800.0	131	12367	No
GOM_TRA_1PNPDE20040712_010609_000000952028_00289_12367_0004.N1	12-JUL-2004 01:06:09	Bright	94.500	18	24Alp PsA	1.1660	9700.0	189	12367	No
GOM_TRA_1PNPDE20040712_011018_000000392028_00289_12367_0005.N1	12-JUL-2004 01:10:18	Bright	38.500	147	Alp Ara	2.8770	26000.	77	12367	No
GOM_TRA_1PNPDE20040712_011210_000000452028_00289_12367_0006.N1	12-JUL-2004 01:12:10	Bright	44.500	40	The Sco	1.8590	7100.0	89	12367	No
GOM_TRA_1PNPDE20040712_011350_000000432028_00289_12367_0007.N1	12-JUL-2004 01:13:50	Bright	42.500	25	35Lam Sco	1.6200	28000.	85	12367	No
GOM_TRA_1PNPDE20040712_011551_000000452028_00289_12367_0008.N1	12-JUL-2004 01:15:51	Bright	44.500	57	34Sig Sgr	2.0660	26000.	89	12367	No
GOM_TRA_1PNPDE20040712_011756_000000962028_00289_12367_0009.N1	12-JUL-2004 01:17:56	Bright	95.500	142	49Del Cap	2.8500	8900.0	191	12367	No
GOM_TRA_1PNPDE20040712_012515_000000402028_00289_12367_0010.N1	12-JUL-2004 01:25:15	Bright	40.000	126	60Bet Oph	2.7700	4250.0	80	12367	No
GOM_TRA_1PNPDE20040712_012732_000000402028_00289_12367_0011.N1	12-JUL-2004 01:27:32	Bright	40.000	59	55Alp Oph	2.0800	8900.0	80	12367	No
GOM_TRA_1PNPDE20040712_013049_000000392028_00289_12367_0012.N1	12-JUL-2004 01:30:49	Bright	38.500	127	27Bet Her	2.7810	4700.0	77	12367	No
GOM_TRA_1PNPDE20040712_013319_000000432028_00289_12367_0013.N1	12-JUL-2004 01:33:19	Bright	42.500	133	40Zet Her	2.8070	6000.0	85	12367	No
GOM_TRA_1PNPDE20040712_013520_000000432028_00289_12367_0014.N1	12-JUL-2004 01:35:20	Bright	42.500	5	3Alp Lyr	0.033000	11000.	85	12367	No
GOM_TRA_1PNPDE20040712_013835_000000372028_00289_12367_0015.N1	12-JUL-2004 01:38:35	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	12367	No
GOM_TRA_1PNPDE20040712_014135_000000402028_00289_12367_0016.N1	12-JUL-2004 01:41:35	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	12367	No
GOM_TRA_1PNPDE20040712_014547_000000382028_00289_12367_0017.N1	12-JUL-2004 01:45:47	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	12367	No
GOM_TRA_1PNPDE20040712_014930_000000372028_00289_12367_0018.N1	12-JUL-2004 01:49:30	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	12367	No
GOM_TRA_1PNPDE20040712_015338_000000512028_00289_12367_0019.N1	12-JUL-2004 01:53:38	Bright	51.000	74	11Bet Cas	2.2680	6600.0	102	12367	No
GOM_TRA_1PNPDE20040712_015548_000000462028_00289_12367_0020.N1	12-JUL-2004 01:55:48	Bright	46.000	110	37Del Cas	2.6780	8900.0	92	12367	No
GOM_TRA_1PNPDE20040712_015936_000000432028_00289_12367_0021.N1	12-JUL-2004 01:59:36	Bright	43.000	160	23Gam Per	2.9300	4700.0	86	12367	No
GOM_TRA_1PNPDE20040712_020053_000000442028_00289_12367_0022.N1	12-JUL-2004 02:00:53	Bright	44.000	35	33Alp Per	1.7950	6250.0	88	12367	No
GOM_TRA_1PNPDE20040712_020258_000000592028_00289_12367_0023.N1	12-JUL-2004 02:02:58	Twilight	59.000	73	57Gam1And	2.2600	13100.	118	12367	No
GOM_TRA_1PNPDE20040712_020546_000001002028_00289_12367_0024.N1	12-JUL-2004 02:05:46	Twilight	100.00	53	43Bet And	2.0480	3300.0	200	12367	No
GOM_TRA_1PNPDE20040712_020900_000000432028_00289_12367_0025.N1	12-JUL-2004 02:09:00	Twilight	43.000	146	25Eta Tau	2.8730	15200.	86	12367	No
GOM_TRA_1PNPDE20040712_021032_000000522028_00289_12367_0026.N1	12-JUL-2004 02:10:32	Twilight	51.500	13	87Alp Tau	0.86700	3800.0	103	12367	No
GOM_TRA_1PNPDE20040712_021304_000000742028_00289_12367_0027.N1	12-JUL-2004 02:13:04	Dark	73.500	105	6Bet Ari	2.6450	8900.0	147	12367	No
GOM_TRA_1PNPDE20040712_021656_000000372028_00289_12367_0000.N1	12-JUL-2004 02:16:56	Dark	37.000	7	19Bet Ori	0.10000	14000.	74	12367	No
GOM_TRA_1PNPDE20040712_021928_000000392028_00289_12367_0001.N1	12-JUL-2004 02:19:28	Dark	39.000	101	11Alp Lep	2.5820	7000.0	78	12367	No
GOM_TRA_1PNPDE20040712_022838_000000452028_00289_12367_0002.N1	12-JUL-2004 02:28:38	Dark	44.500	157	The1Eri	2.9060	9300.0	89	12367	No
GOM_TRA_1PNPDE20040712_023449_000000542028_00290_12368_0003.N1	12-JUL-2004 02:34:49	Dark	54.000	9	Alp Eri	0.45300	24000.	108	12368	No
GOM_TRA_1PNPDE20040712_023719_000000542028_00290_12368_0004.N1	12-JUL-2004 02:37:19	Dark	54.000	84	Alp Phe	2.3970	4500.0	108	12368	No
GOM_TRA_1PNPDE20040712_024321_000000582028_00290_12368_0005.N1	12-JUL-2004 02:43:21	Twilight	58.000	63	Bet Gru	2.1500	2800.0	116	12368	No
GOM_TRA_1PNPDE20040712_024502_000000542028_00290_12368_0006.N1	12-JUL-2004 02:45:02	Twilight	54.000	31	Alp Gru	1.7340	15200.	108	12368	No
GOM_TRA_1PNPDE20040712_024646_000000882028_00290_12368_0007.N1	12-JUL-2004 02:46:46	Bright	87.500	18	24Alp PsA	1.1660	9700.0	175	12368	No
GOM_TRA_1PNPDE20040712_025054_000000402028_00290_12368_0008.N1	12-JUL-2004 02:50:54	Bright	39.500	147	Alp Ara	2.8770	26000.	79	12368	No
GOM_TRA_1PNPDE20040712_025245_000000422028_00290_12368_0009.N1	12-JUL-2004 02:52:45	Bright	42.000	40	The Sco	1.8590	7100.0	84	12368	No
GOM_TRA_1PNPDE20040712_025425_000000422028_00290_12368_0010.N1	12-JUL-2004 02:54:25	Bright	41.500	25	35Lam Sco	1.6200	28000.	83	12368	No
GOM_TRA_1PNPDE20040712_025629_000000432028_00290_12368_0011.N1	12-JUL-2004 02:56:29	Bright	42.500	57	34Sig Sgr	2.0660	26000.	85	12368	No
GOM_TRA_1PNPDE20040712_025832_000000942028_00290_12368_0012.N1	12-JUL-2004 02:58:32	Bright	93.500	142	49Del Cap	2.8500	8900.0	187	12368	No
GOM_TRA_1PNPDE20040712_030551_000000402028_00290_12368_0013.N1	12-JUL-2004 03:05:51	Bright	40.000	126	60Bet Oph	2.7700	4250.0	80	12368	No

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



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

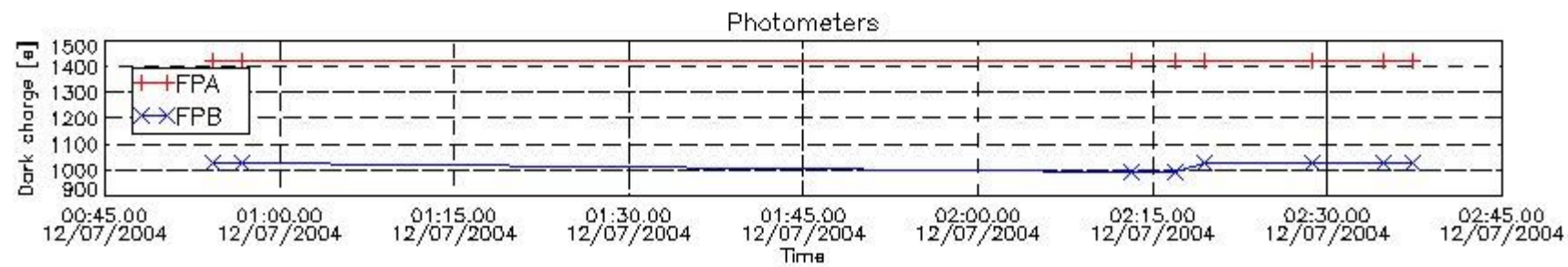
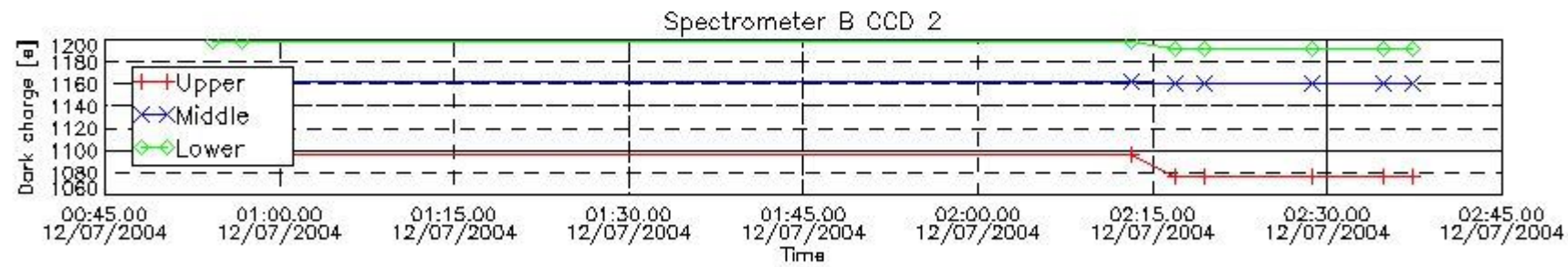
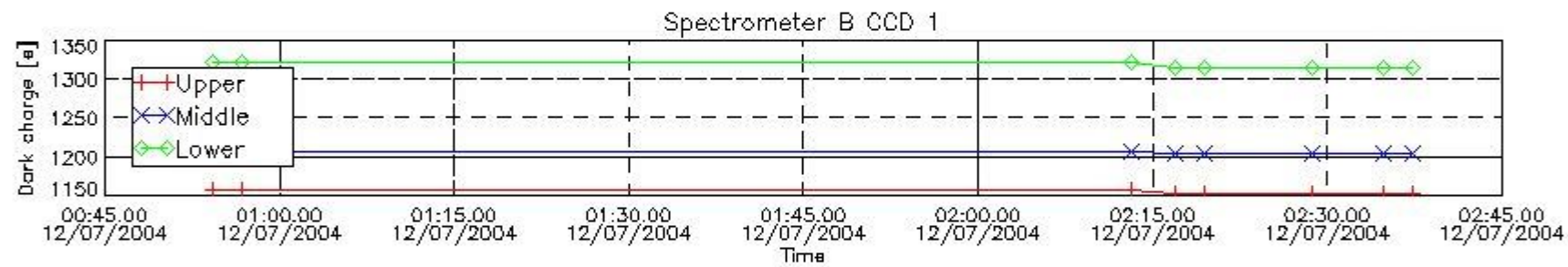
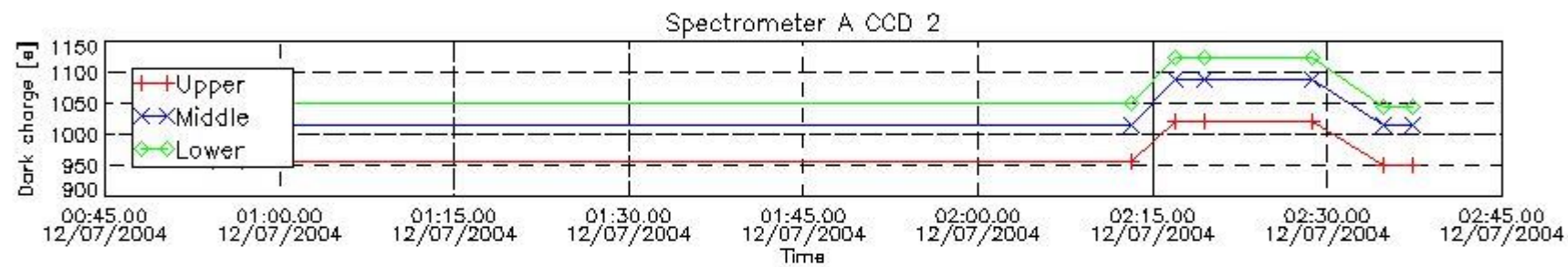
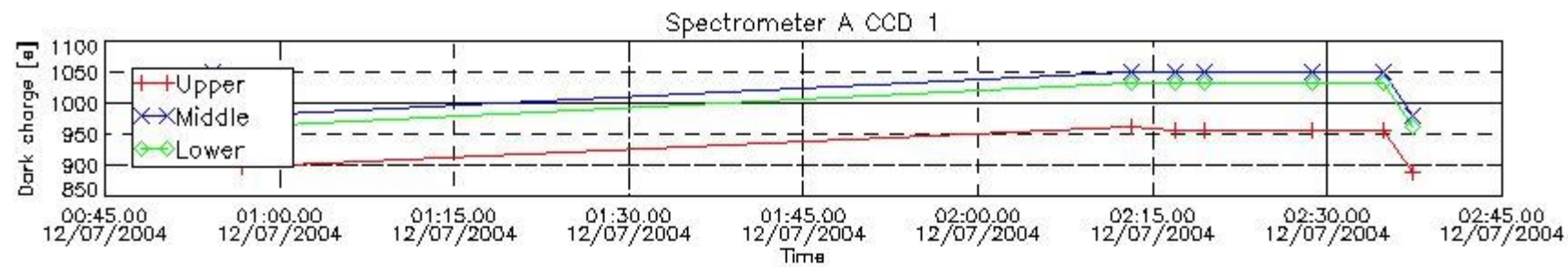
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

#### 4.1 All products used the DSA observation for the DC computation

#### 4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used





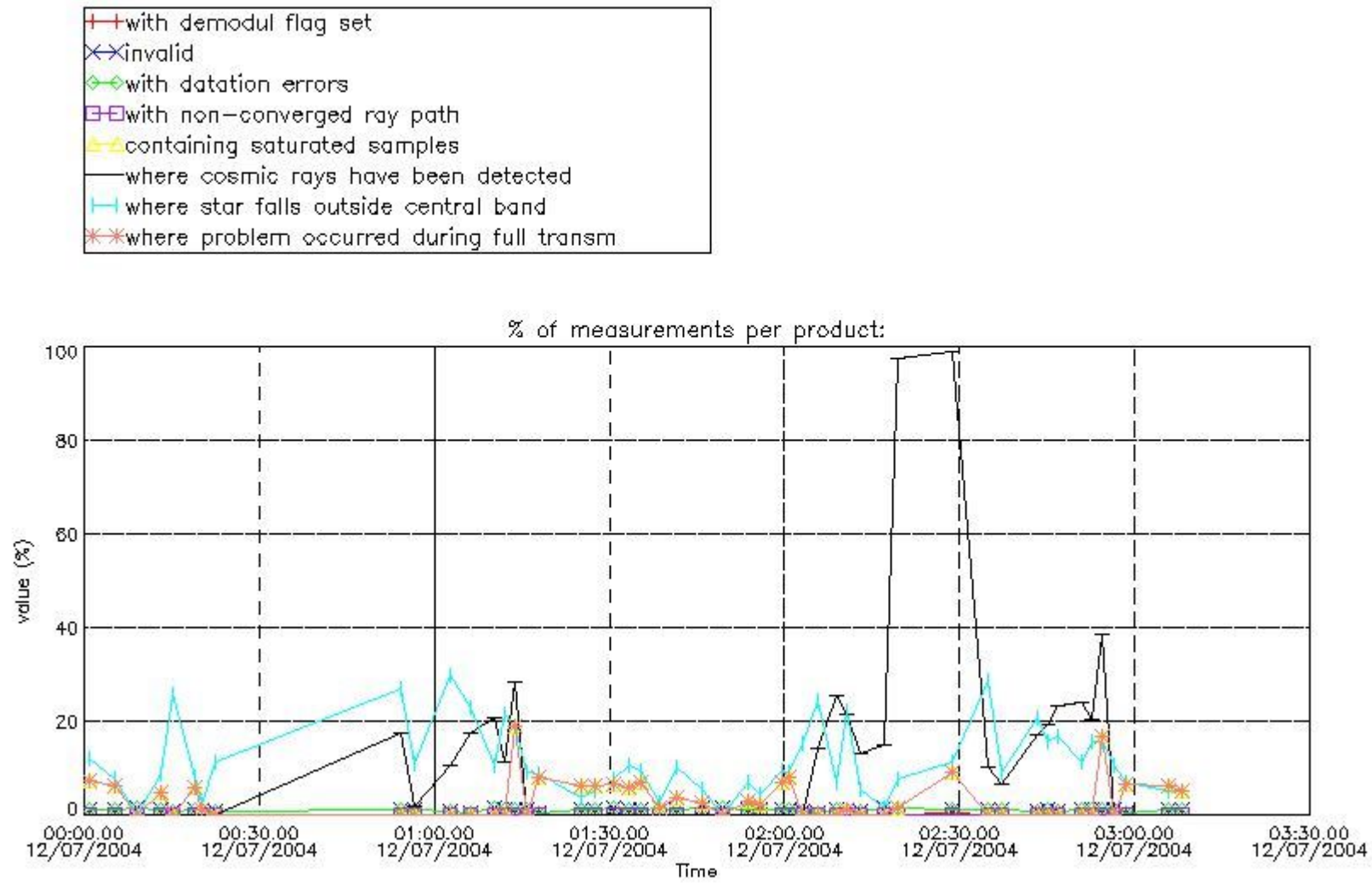
## 5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	4.00000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

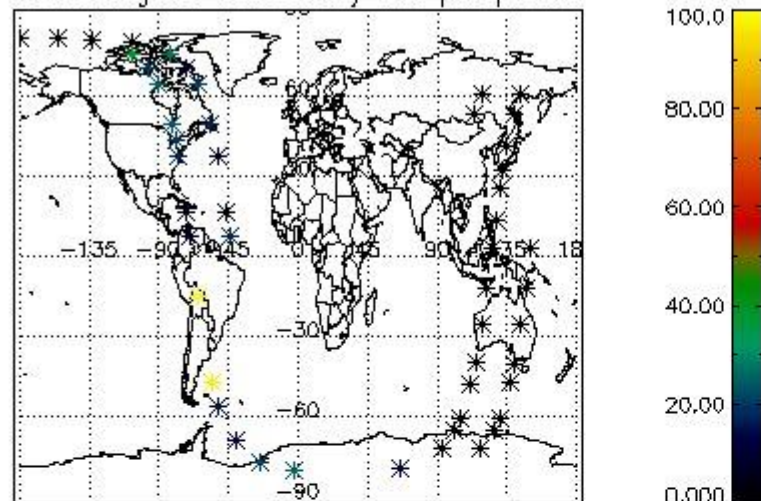
5.2 Plot quality information per product (time dependant)



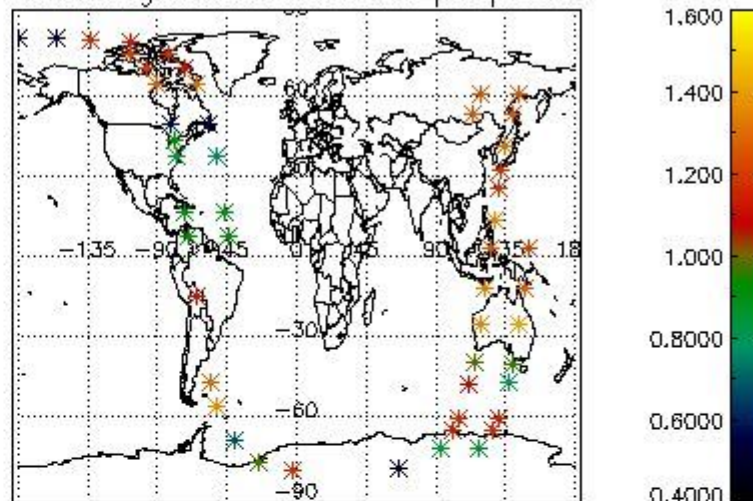
5.3 Plot quality information per product (world map)



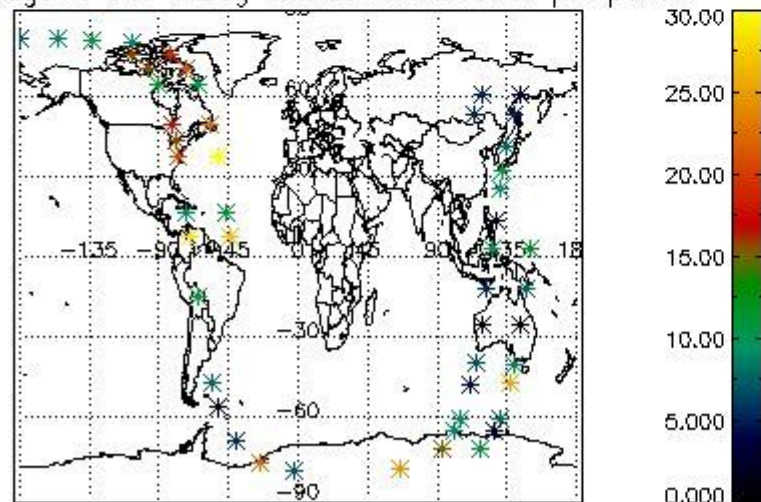
Percentage of cosmic ray hits per profile



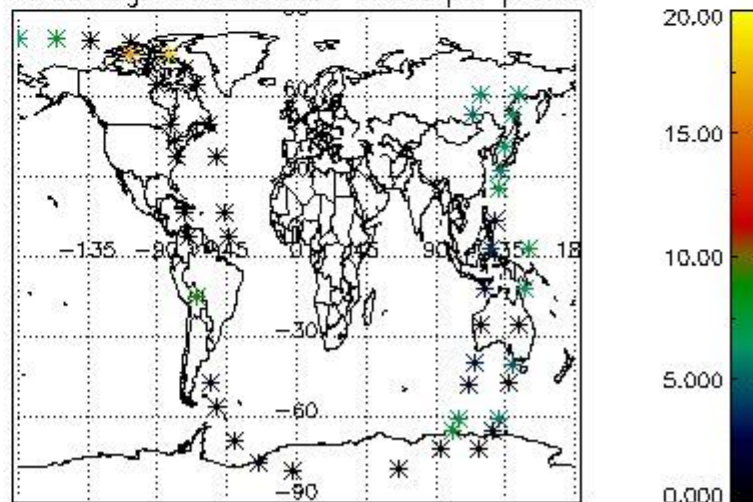
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



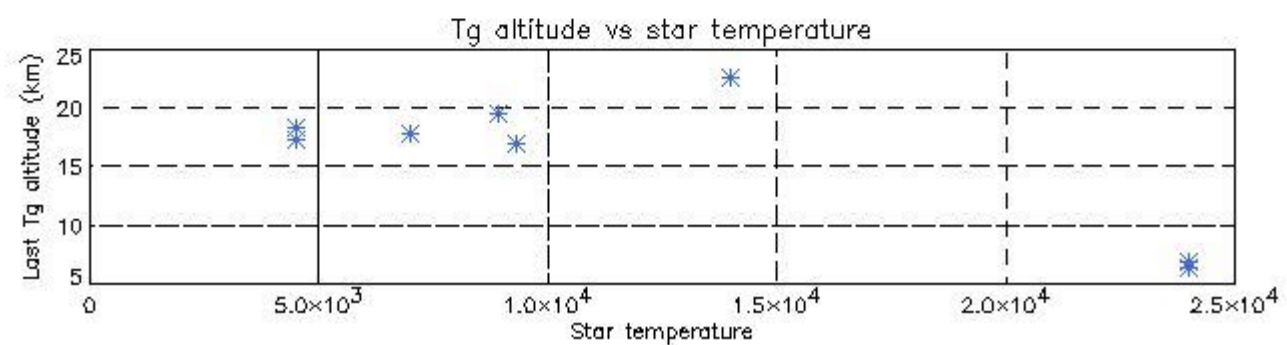
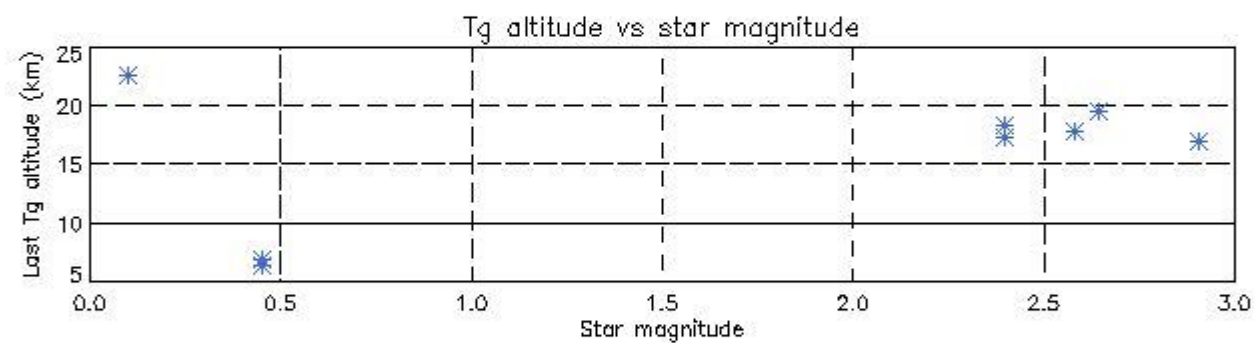
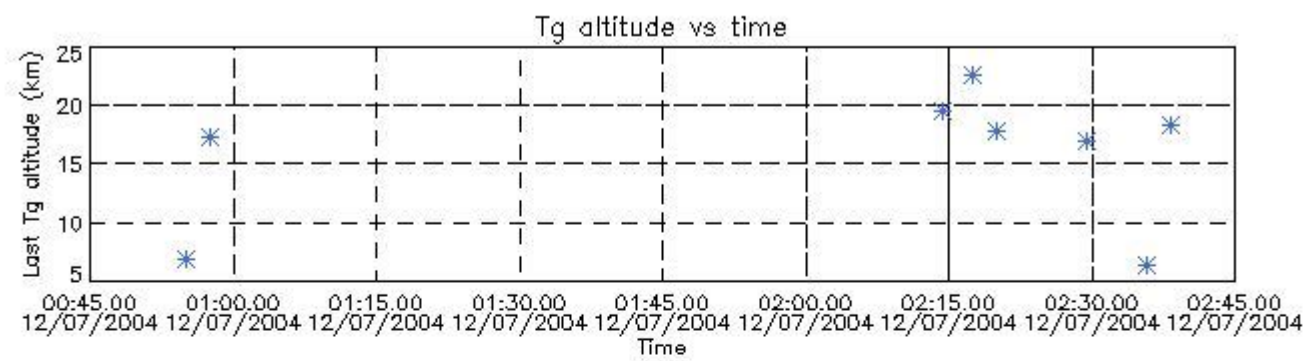
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.726	18.763	12.406
St. deviation:	5.9142	4.4847	4.3330
Maximum:	22.644	28.931	18.816
Minimum:	6.3593	8.5556	5.4688
Number of data:	8.0000	34.000	8.0000

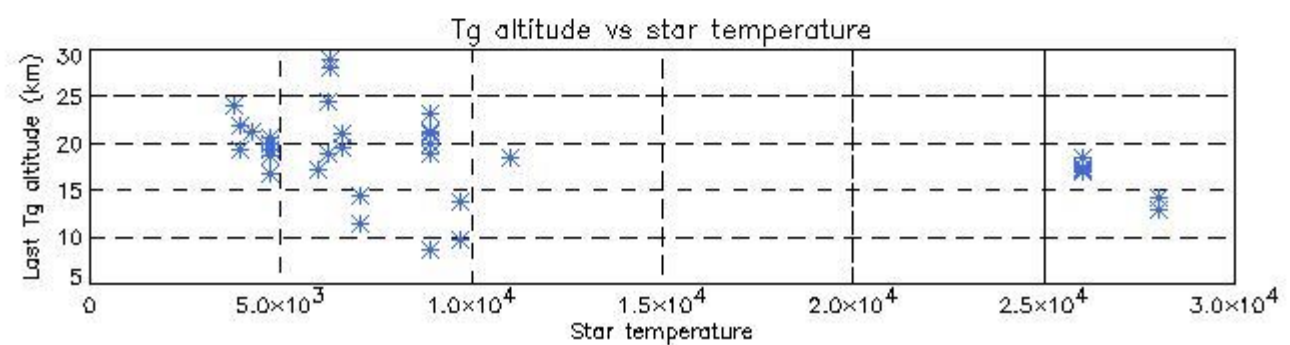
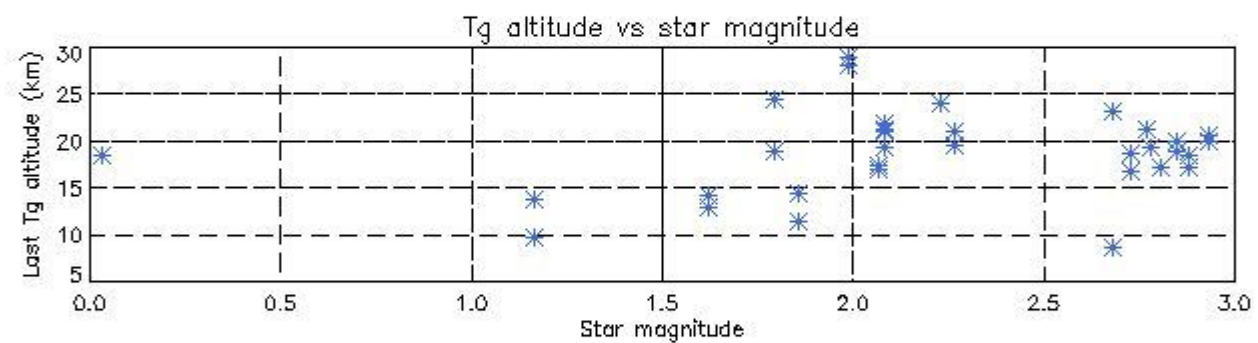
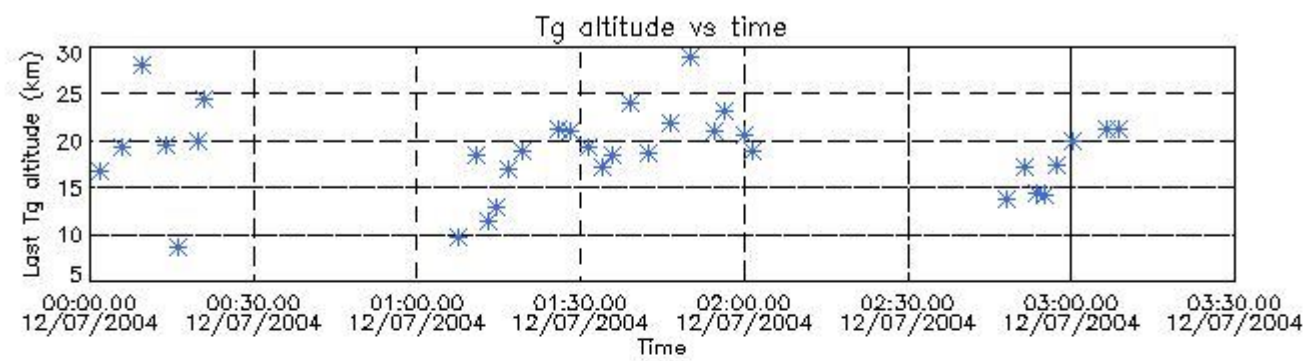
### 6.2 Plot for DARK limb products

# Tangent altitude at which the star is lost



## 6.3 Plot for BRIGHT limb products

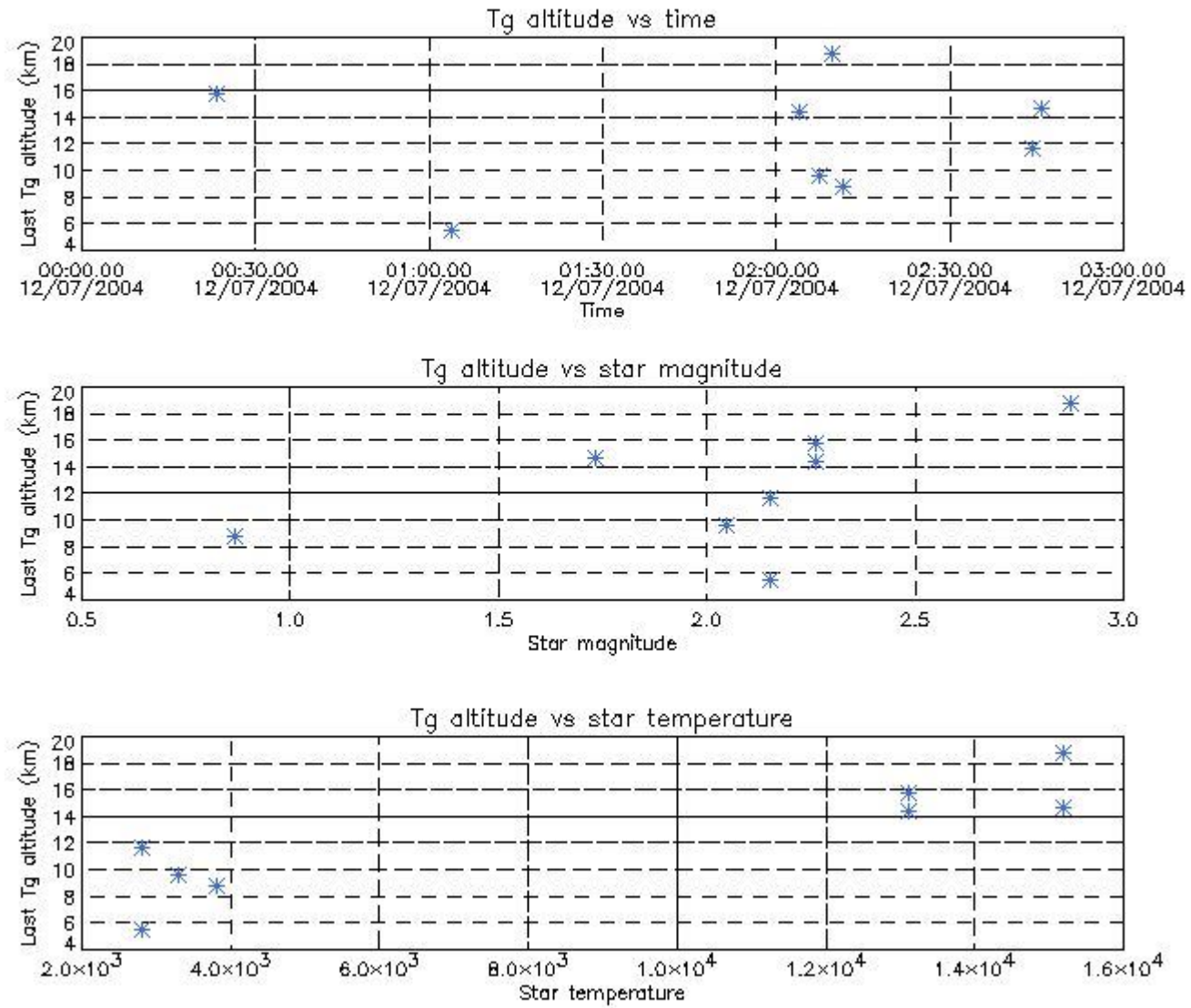
# Tangent altitude at which the star is lost



## 6.3 Plot for TWILIGHT limb products



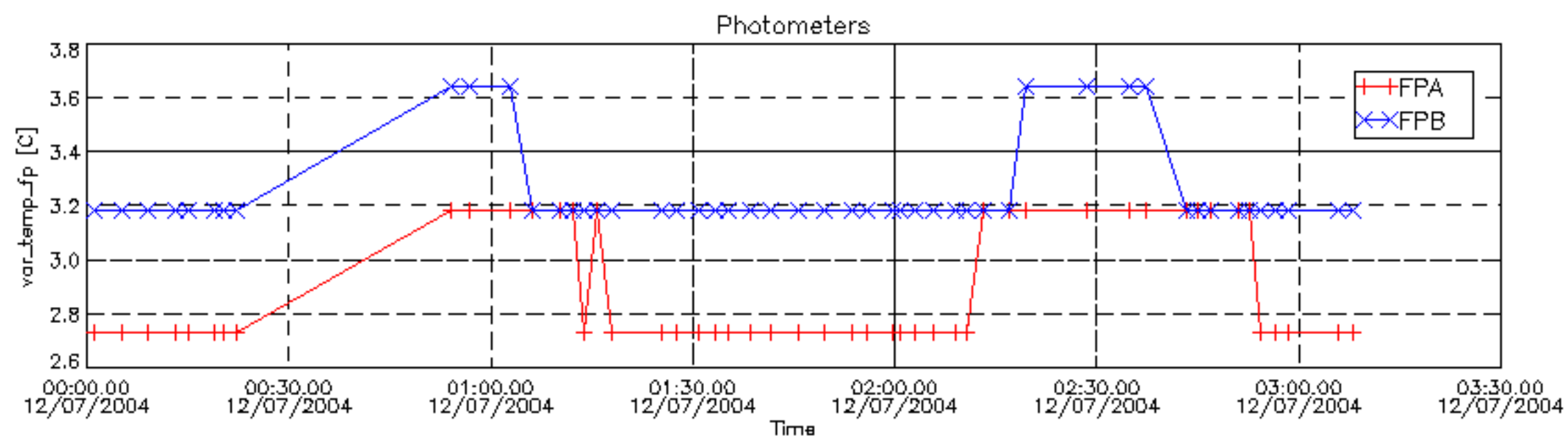
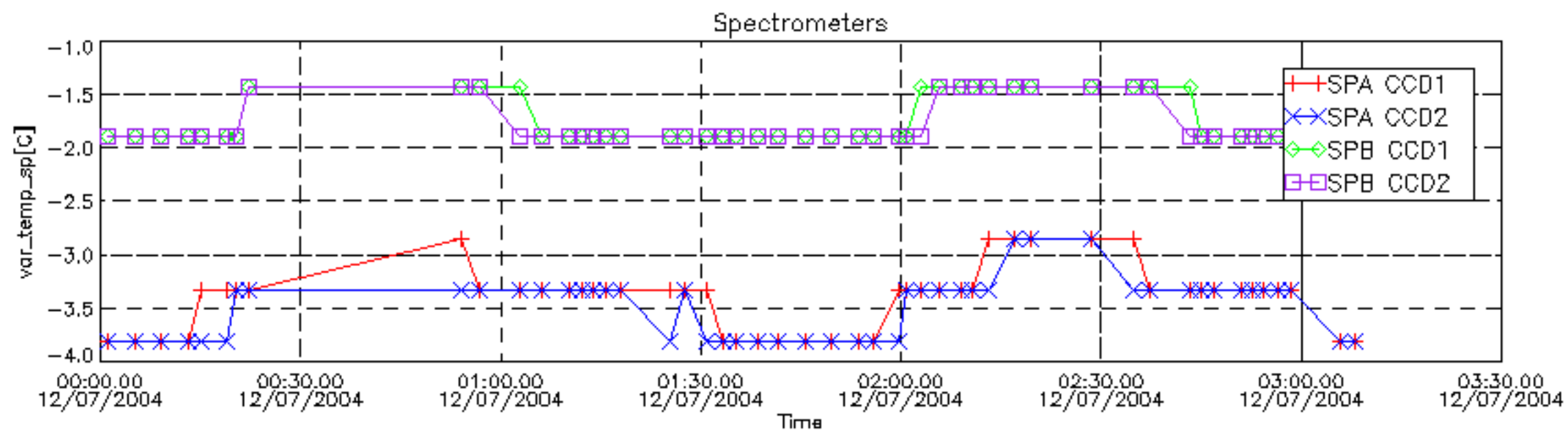
## Tangent altitude at which the star is lost

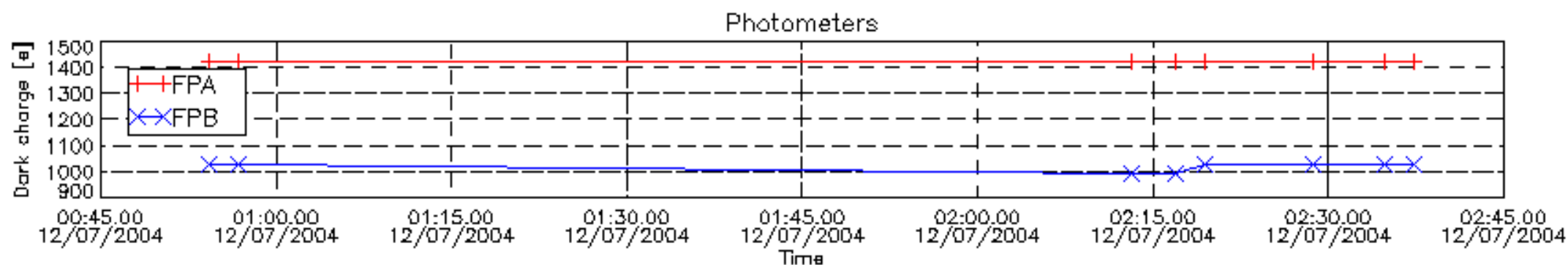
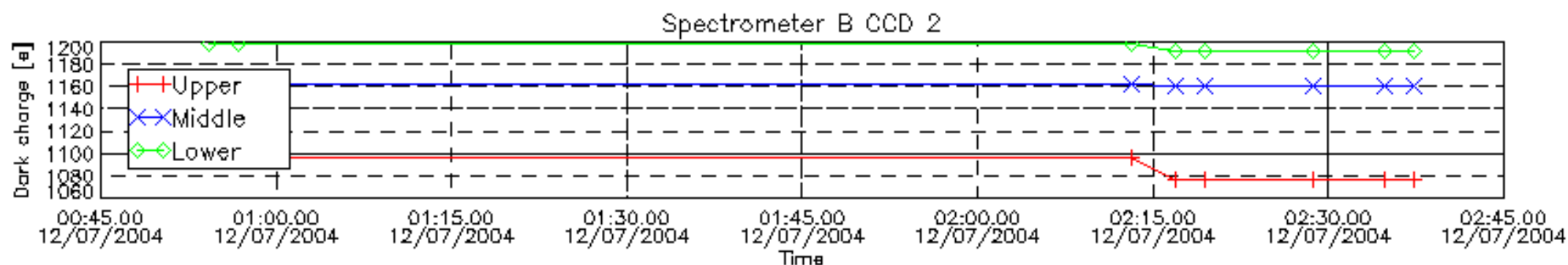
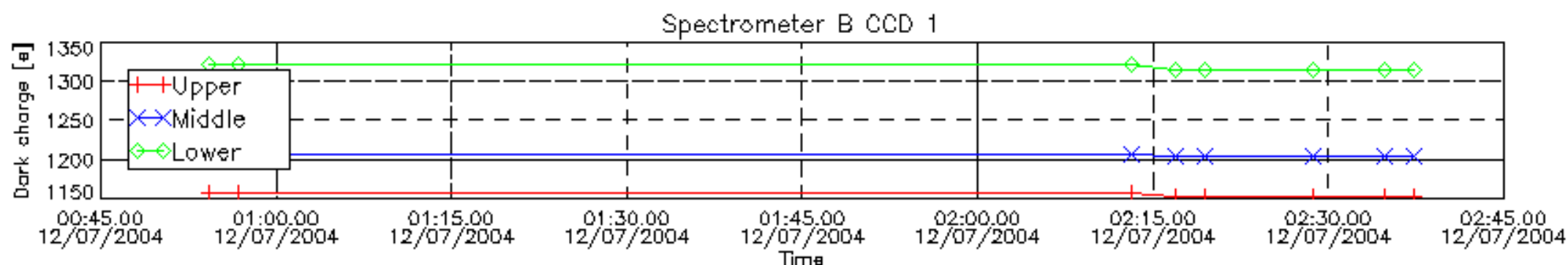
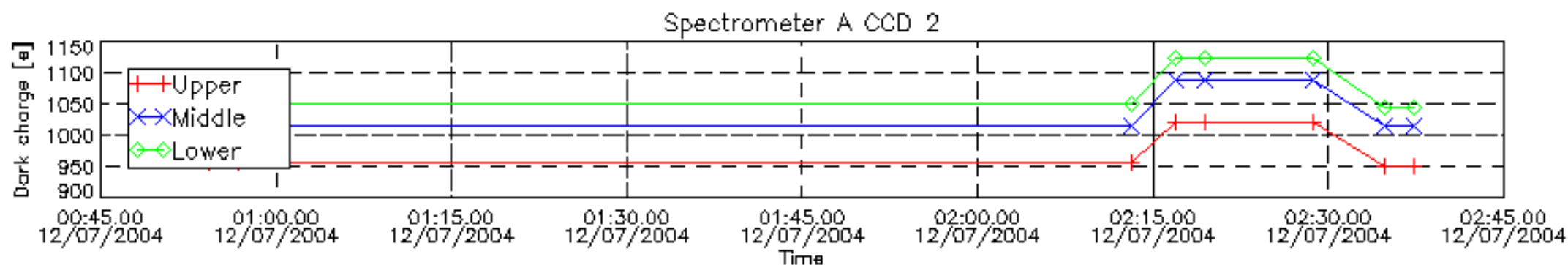
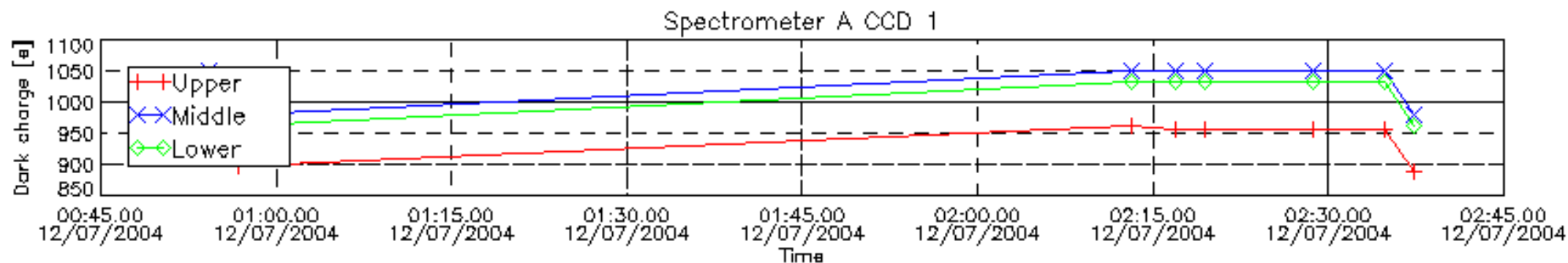


## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

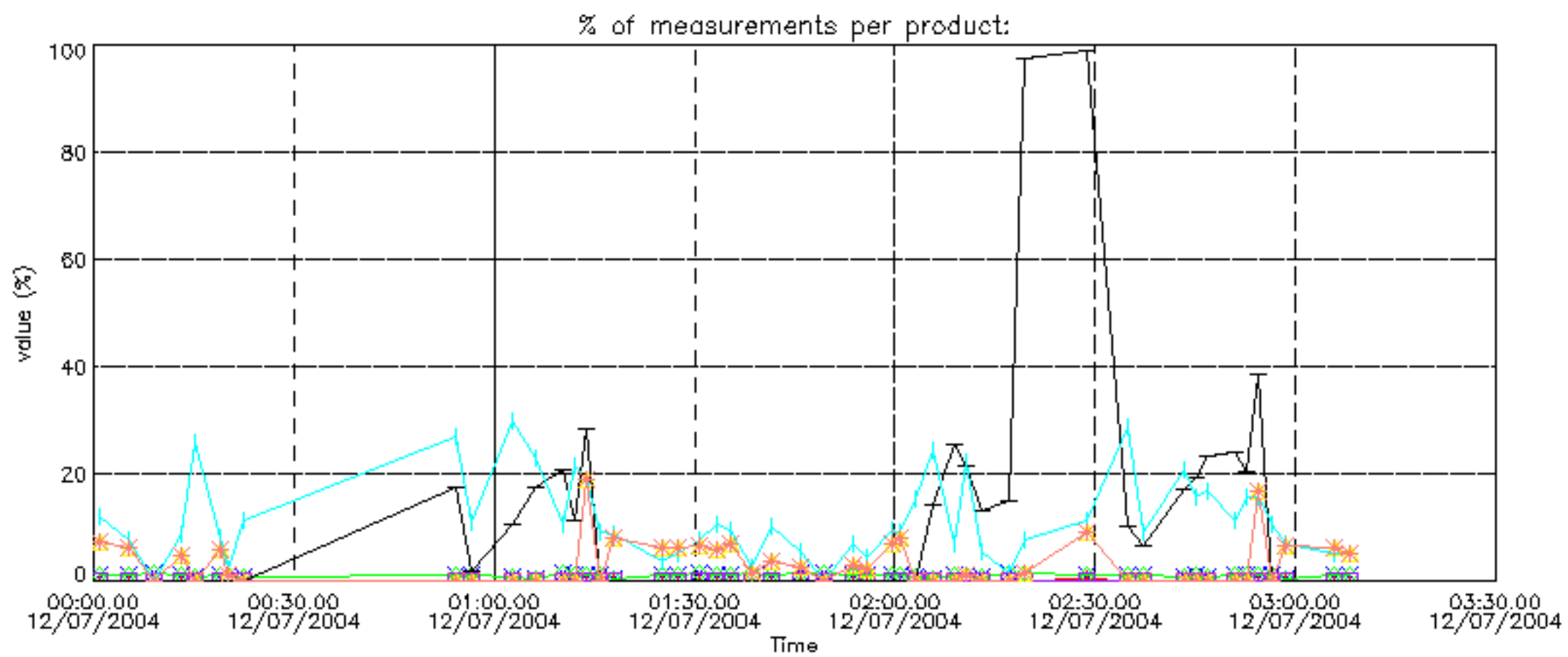
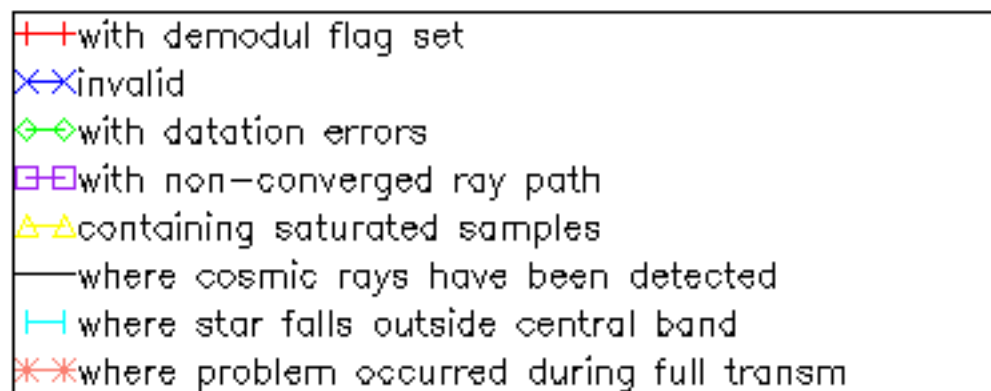
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.3	1448.7	1461.4	1448.2
St. deviation:	4.6960	5.5308	6.5041	7.0869
Maximum:	1501.0	1538.0	1505.0	1493.0
Minimum:	1450.0	1435.0	1433.0	1427.0
Number of data:	10650.	10650.	43350.	43350.

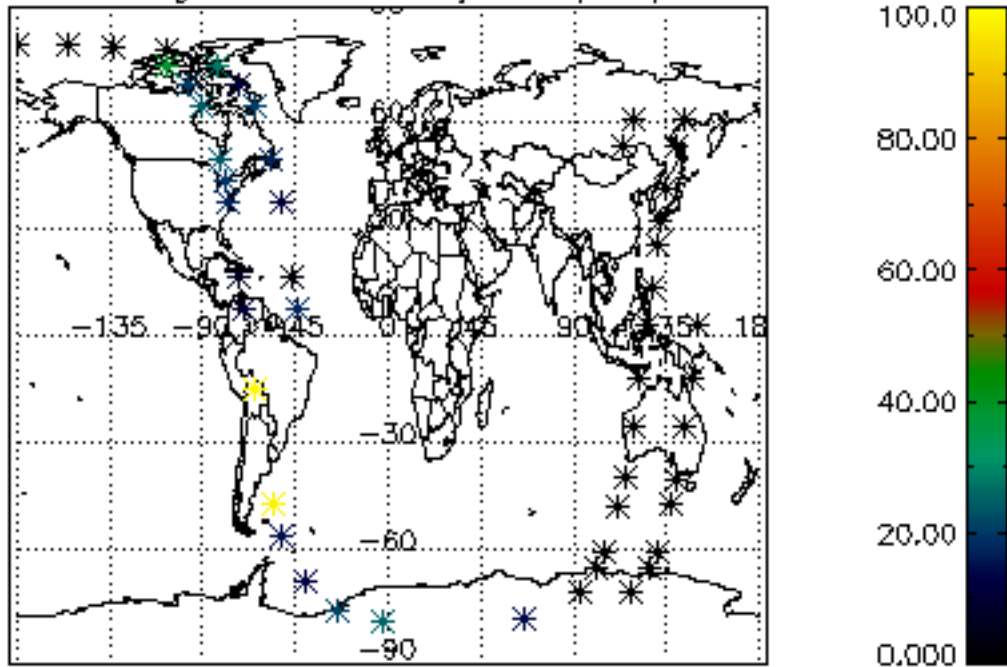




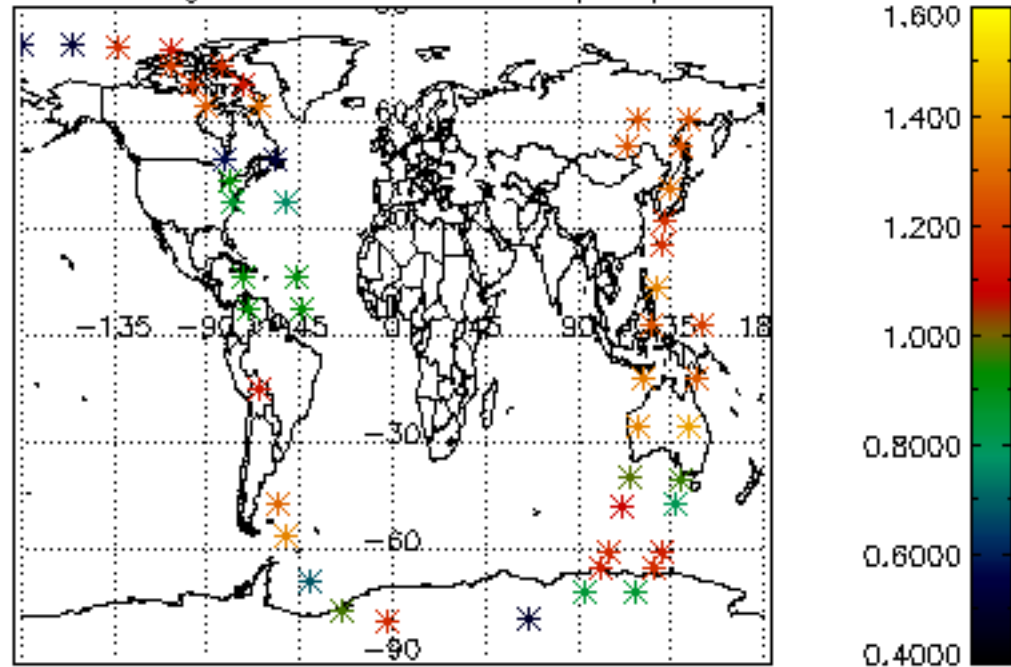




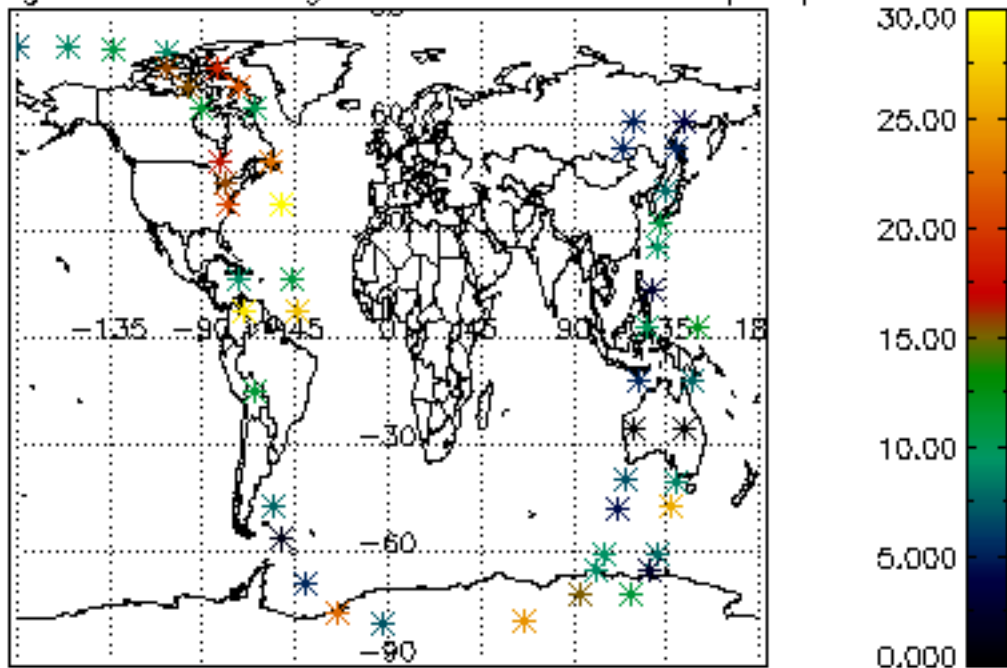
Percentage of cosmic ray hits per profile



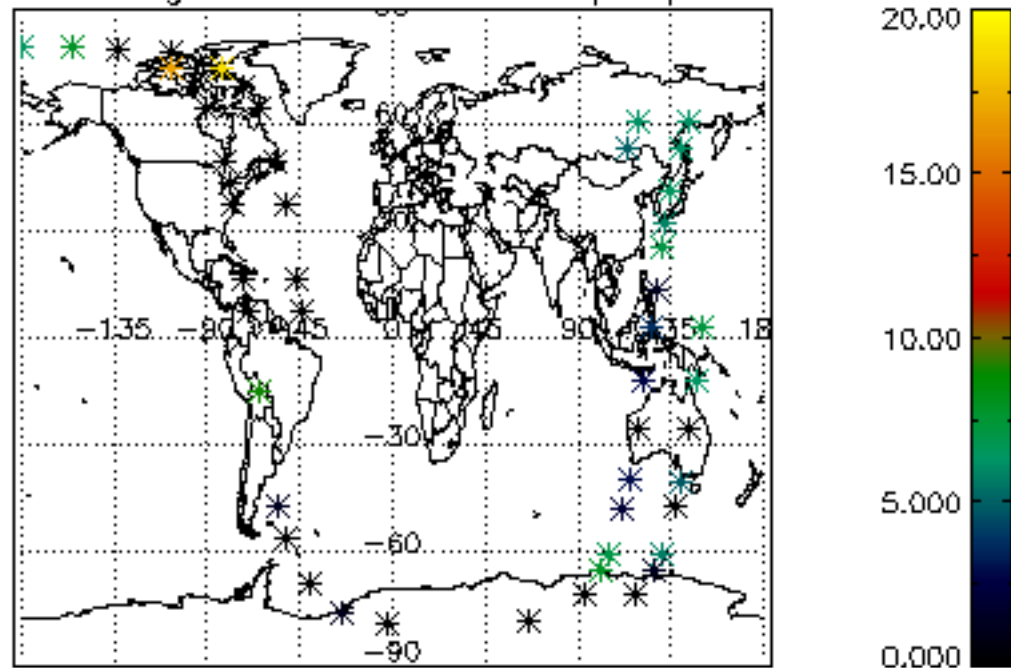
Percentage of datation errors per profile



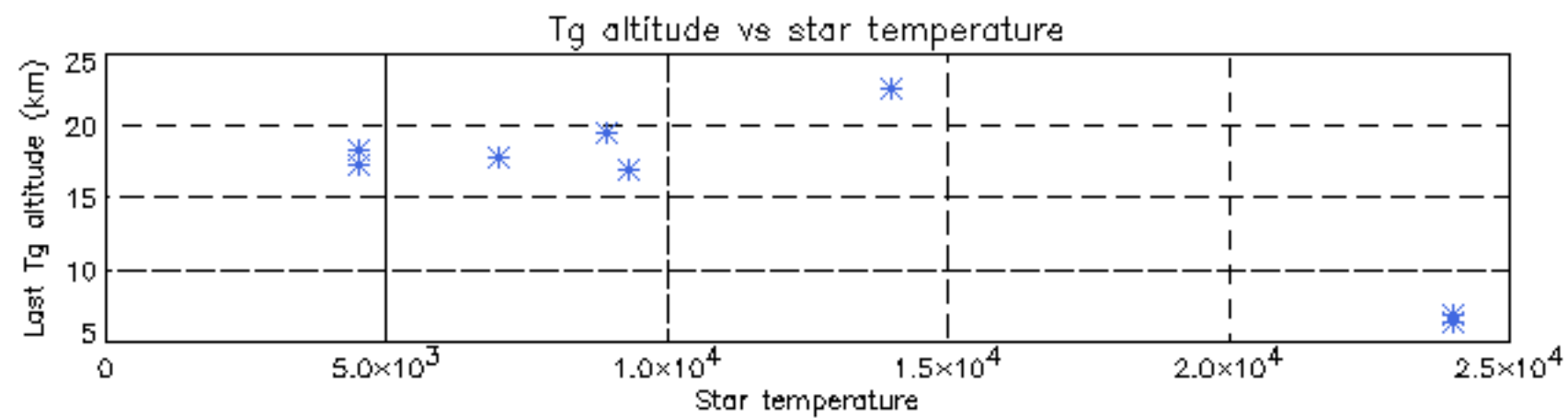
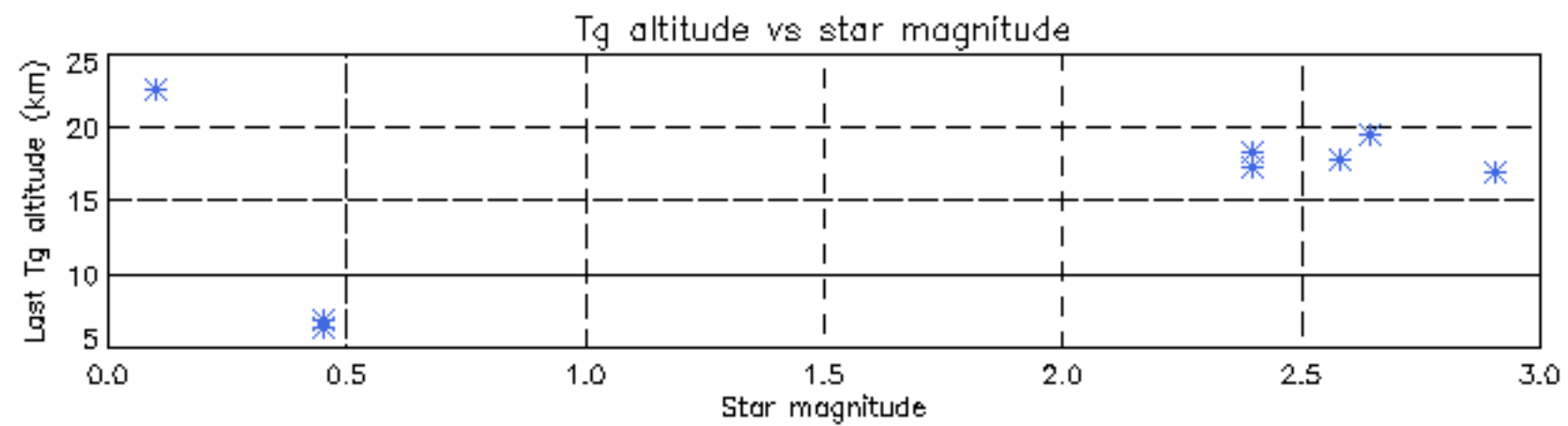
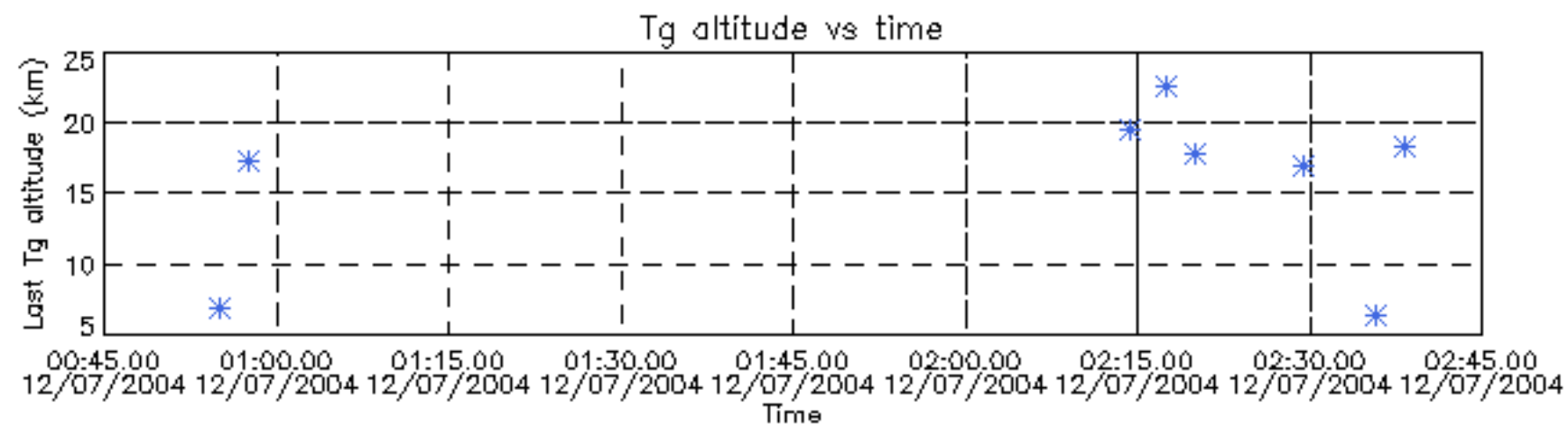
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

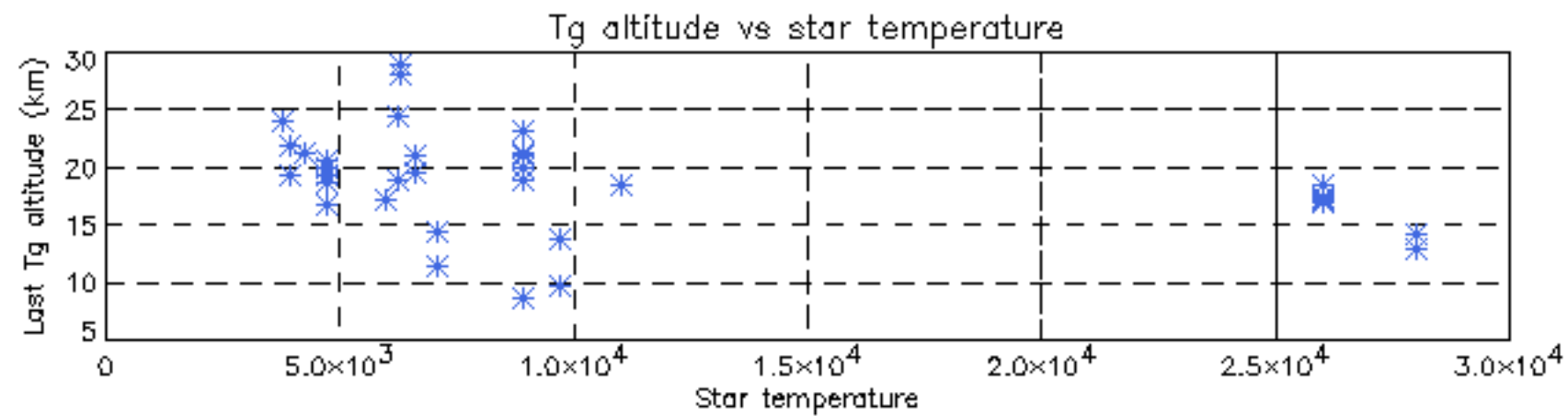
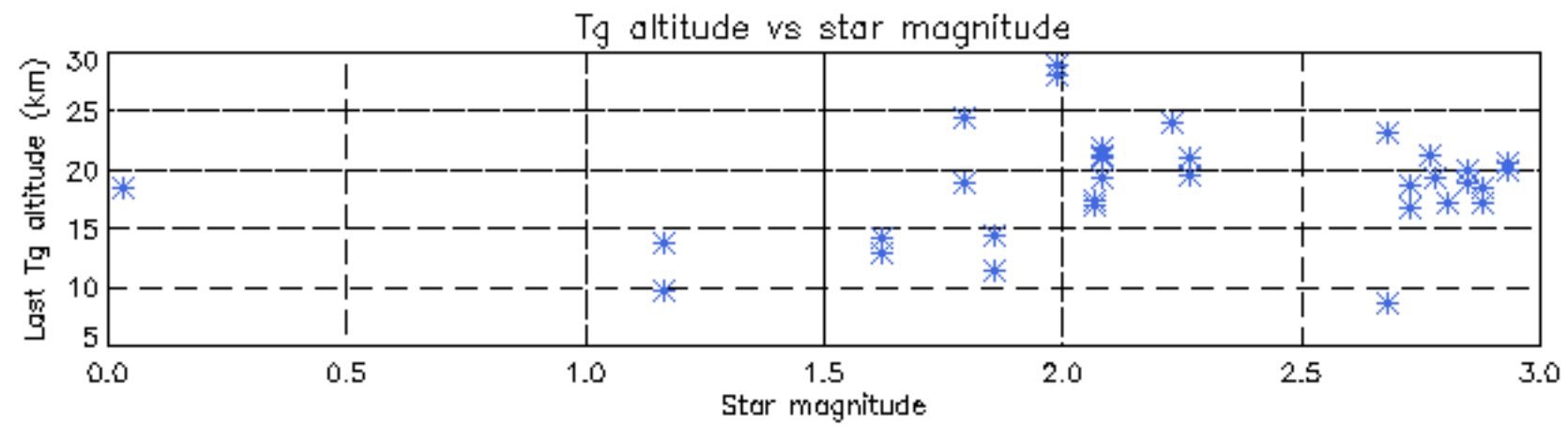
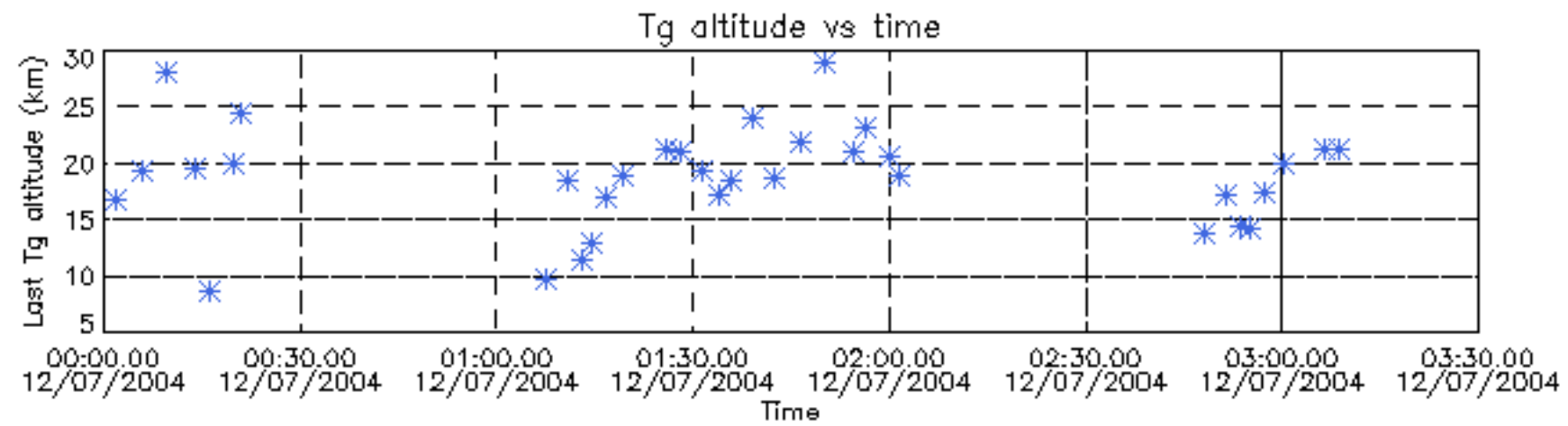


Tangent altitude at which the star is lost

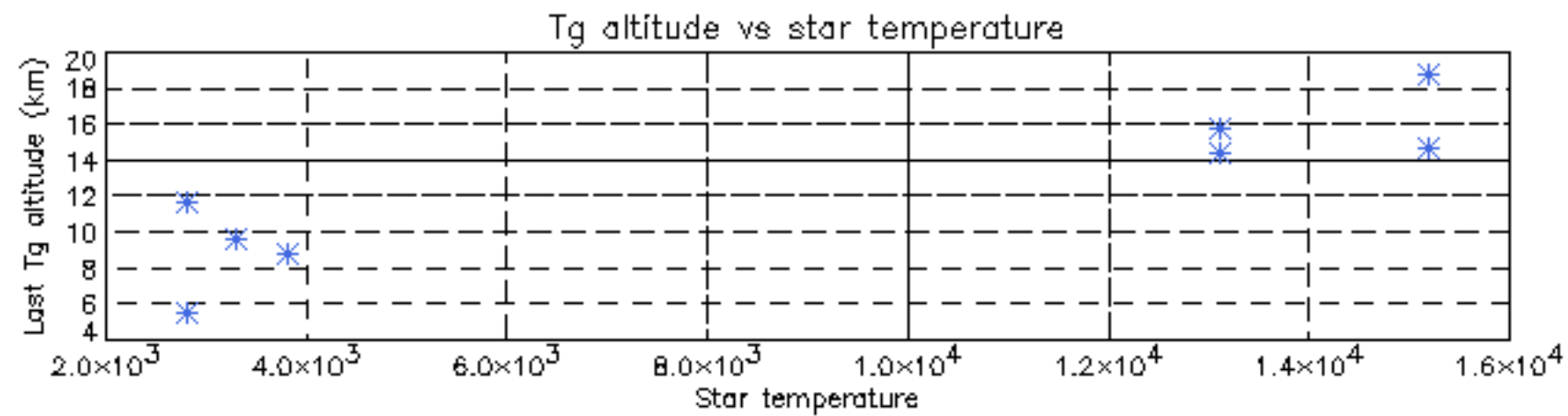
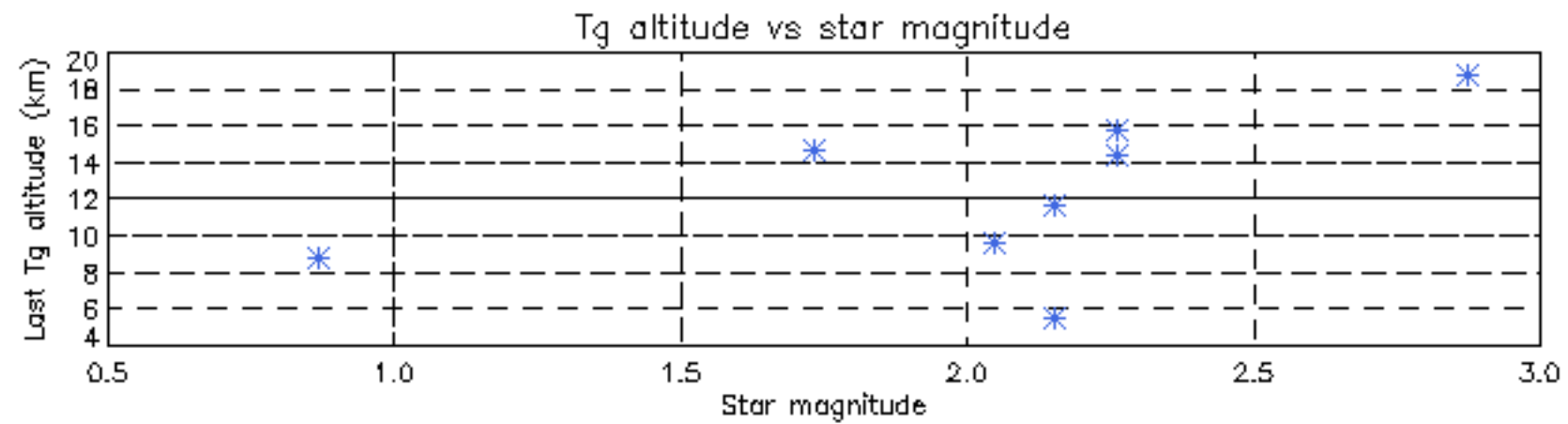
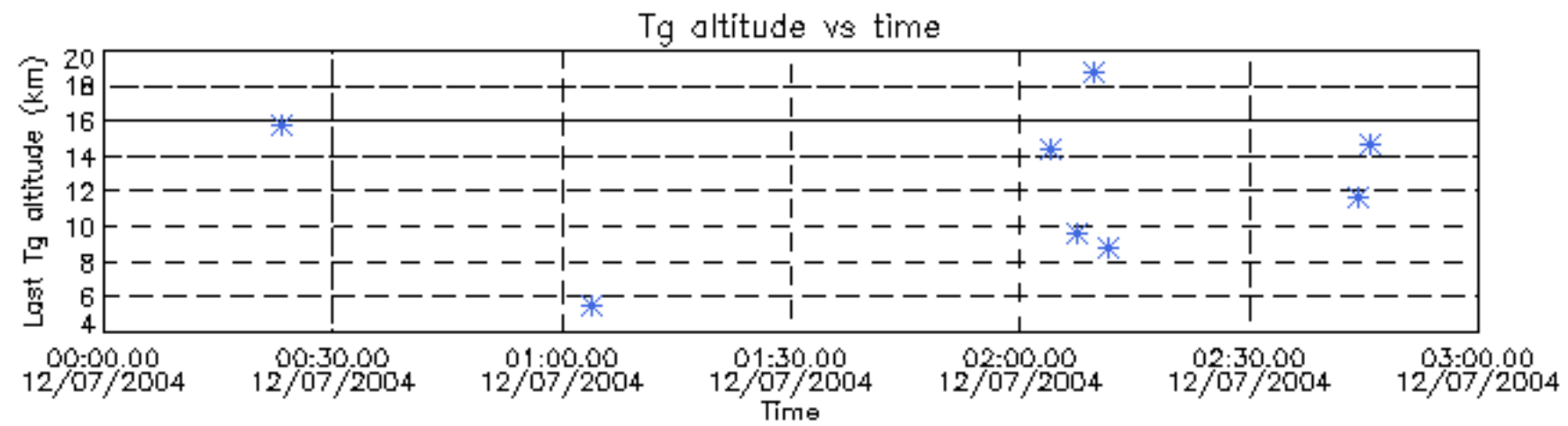




Tangent altitude at which the star is lost



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
23; 1480.4; 01-JUL-2004 07:04:36; Bright; 47.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 94; 0;12213
24; 1643.0; 01-JUL-2004 07:07:18; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;12213
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3;-4055.2; 01-JUL-2004 07:12:56; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;12213
4;-3915.5; 01-JUL-2004 07:15:16; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;12213
5;-3752.4; 01-JUL-2004 07:17:59; Bright; 39.0; 127; 27Bet Her ; 2.78; 4700;occ; 78; 0;12213
6;-3588.5; 01-JUL-2004 07:20:43; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;12213
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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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
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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	
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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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11;	-918.2;	22-JUL-2004	03:43:42;	Dark	;	52.0;	7;	19Bet Ori	;	0.10;	14000;occ;	104;	0;	12511
12;	-777.9;	22-JUL-2004	03:46:03;	Dark	;	44.5;	101;	11Alp Lep	;	2.58;	7000;occ;	89;	0;	12511
13;	-513.4;	22-JUL-2004	03:50:27;	Dark	;	41.5;	108;	Alp Col	;	2.65;	15200;occ;	83;	0;	12511
14;	-385.5;	22-JUL-2004	03:52:35;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12511
15;	-145.8;	22-JUL-2004	03:56:35;	Dark	;	45.5;	157;	The1Eri	;	2.91;	9300;occ;	91;	0;	12511
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17;	386.6;	22-JUL-2004	04:05:27;	Dark	;	42.0;	135;	Bet Hyi	;	2.82;	5800;occ;	84;	0;	12512
18;	651.6;	22-JUL-2004	04:09:52;	Dark	;	44.0;	148;	Alp Tuc	;	2.88;	4100;occ;	88;	0;	12512
19;	752.3;	22-JUL-2004	04:11:33;	Dark	;	53.5;	63;	Bet Gru	;	2.15;	2800;occ;	107;	0;	12512
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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
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	
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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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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
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7;	-1294.9;	22-JUL-2004	05:18:02;	Dark	;	53.0;	13;	87Alp Tau	;	0.87;	3800;occ;	106;	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
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13;	-385.0;	22-JUL-2004	05:33:12;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12512
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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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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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