

# GOMOS Daily Report 13-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	19JUL2004 10:20:55
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-5D (13JUL2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-5D (14JUL2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	2

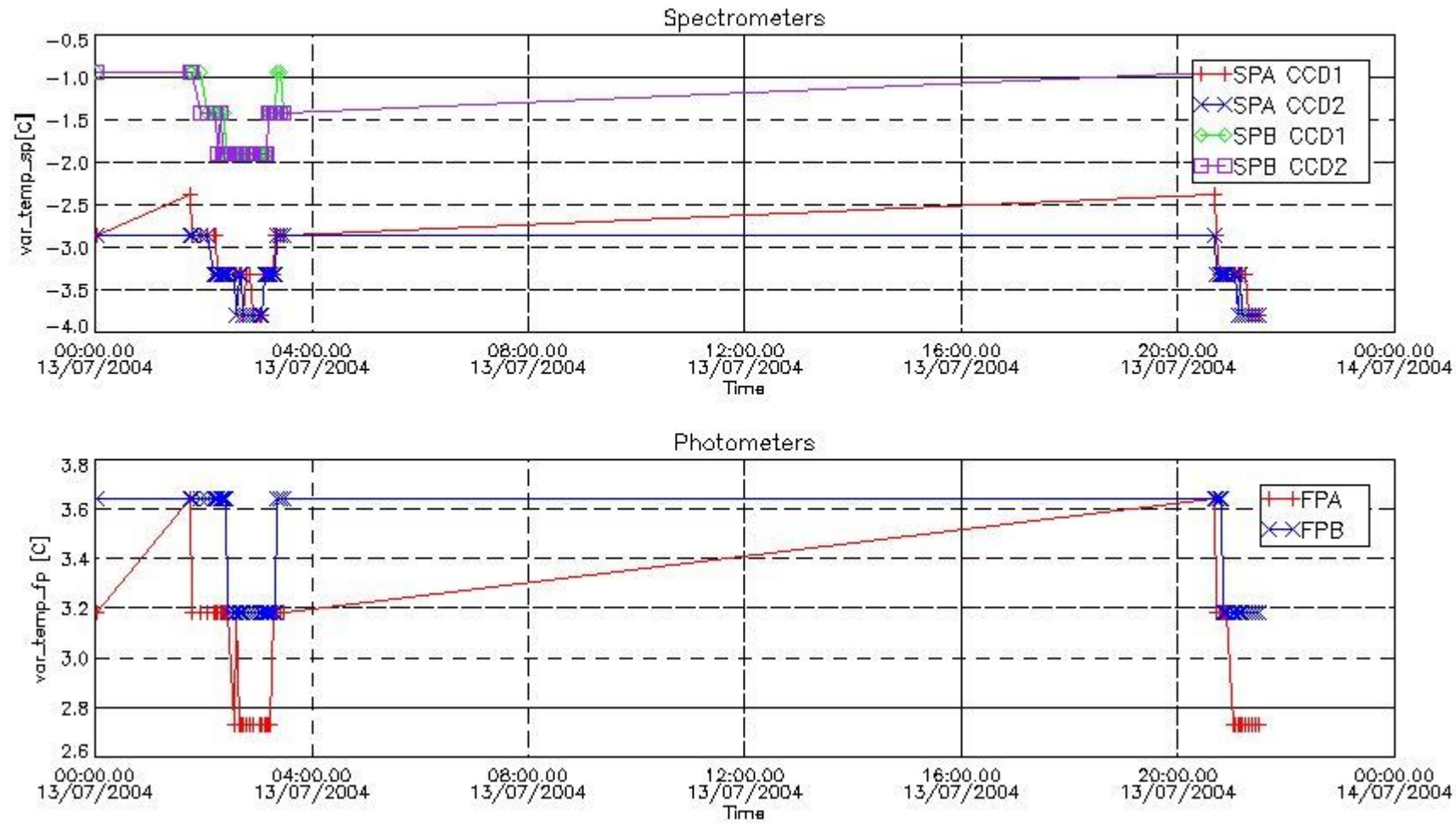
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20040713_000102_000000812028_00302_12380_0027.N1	13-JUL-2004 00:01:02	Dark	80.500	105	6Bet Ari	2.6450	8900.0	161	12380	No
GOM_TRA_1PNPDE20040713_014522_000000412028_00303_12381_0000.N1	13-JUL-2004 01:45:22	Dark	41.000	7	19Bet Ori	0.10000	14000.	82	12381	Yes
GOM_TRA_1PNPDE20040713_014753_000000422028_00303_12381_0001.N1	13-JUL-2004 01:47:53	Dark	41.500	101	11Alp Lep	2.5820	7000.0	83	12381	No
GOM_TRA_1PNPDE20040713_015709_000000442028_00303_12381_0002.N1	13-JUL-2004 01:57:09	Dark	44.000	157	The1Eri	2.9060	9300.0	88	12381	No
GOM_TRA_1PNPDE20040713_020321_000000442028_00304_12382_0003.N1	13-JUL-2004 02:03:21	Dark	43.500	9	Alp Eri	0.45300	24000.	87	12382	No
GOM_TRA_1PNPDE20040713_020503_000001082028_00304_12382_0004.N1	13-JUL-2004 02:05:03	Dark	108.00	52	16Bet Cet	2.0370	4500.0	216	12382	No
GOM_TRA_1PNPDE20040713_021157_000000622028_00304_12382_0005.N1	13-JUL-2004 02:11:57	Twilight	61.500	63	Bet Gru	2.1500	2800.0	123	12382	No
GOM_TRA_1PNPDE20040713_021336_000000502028_00304_12382_0006.N1	13-JUL-2004 02:13:36	Twilight	50.000	31	Alp Gru	1.7340	15200.	100	12382	No
GOM_TRA_1PNPDE20040713_021529_000000902028_00304_12382_0007.N1	13-JUL-2004 02:15:29	Bright	90.000	18	24Alp PsA	1.1660	9700.0	180	12382	No
GOM_TRA_1PNPDE20040713_021919_000000392028_00304_12382_0008.N1	13-JUL-2004 02:19:19	Bright	38.500	147	Alp Ara	2.8770	26000.	77	12382	No
GOM_TRA_1PNPDE20040713_022110_000000432028_00304_12382_0009.N1	13-JUL-2004 02:21:10	Bright	42.500	40	The Sco	1.8590	7100.0	85	12382	No
GOM_TRA_1PNPDE20040713_022301_000000452028_00304_12382_0010.N1	13-JUL-2004 02:23:01	Bright	45.000	38	20Eps Sgr	1.8360	11000.	90	12382	No
GOM_TRA_1PNPDE20040713_022455_000000442028_00304_12382_0011.N1	13-JUL-2004 02:24:55	Bright	43.500	57	34Sig Sgr	2.0660	26000.	87	12382	No
GOM_TRA_1PNPDE20040713_022656_000000912028_00304_12382_0012.N1	13-JUL-2004 02:26:56	Bright	91.000	142	49Del Cap	2.8500	8900.0	182	12382	No
GOM_TRA_1PNPDE20040713_023418_000000392028_00304_12382_0013.N1	13-JUL-2004 02:34:18	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	12382	No
GOM_TRA_1PNPDE20040713_023633_000000422028_00304_12382_0014.N1	13-JUL-2004 02:36:33	Bright	42.000	59	55Alp Oph	2.0800	8900.0	84	12382	No
GOM_TRA_1PNPDE20040713_023952_000000402028_00304_12382_0015.N1	13-JUL-2004 02:39:52	Bright	40.000	127	27Bet Her	2.7810	4700.0	80	12382	No
GOM_TRA_1PNPDE20040713_024223_000000402028_00304_12382_0016.N1	13-JUL-2004 02:42:23	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	12382	No
GOM_TRA_1PNPDE20040713_024414_000000482028_00304_12382_0017.N1	13-JUL-2004 02:44:14	Bright	47.500	5	3Alp Lyr	0.033000	11000.	95	12382	No
GOM_TRA_1PNPDE20040713_024733_000000402028_00304_12382_0018.N1	13-JUL-2004 02:47:33	Bright	40.000	69	33Gam Dra	2.2310	3800.0	80	12382	No
GOM_TRA_1PNPDE20040713_025037_000000372028_00304_12382_0019.N1	13-JUL-2004 02:50:37	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	12382	No
GOM_TRA_1PNPDE20040713_025449_000000402028_00304_12382_0020.N1	13-JUL-2004 02:54:49	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	12382	No
GOM_TRA_1PNPDE20040713_030227_000000532028_00304_12382_0000.N1	13-JUL-2004 03:02:27	Bright	53.000	74	11Bet Cas	2.2680	6600.0	106	12382	No
GOM_TRA_1PNPDE20040713_030441_000000482028_00304_12382_0001.N1	13-JUL-2004 03:04:41	Bright	47.500	110	37Del Cas	2.6780	8900.0	95	12382	No
GOM_TRA_1PNPDE20040713_030833_000000582028_00304_12382_0002.N1	13-JUL-2004 03:08:33	Bright	58.000	160	23Gam Per	2.9300	4700.0	116	12382	No
GOM_TRA_1PNPDE20040713_030951_000000422028_00304_12382_0003.N1	13-JUL-2004 03:09:51	Bright	42.000	35	33Alp Per	1.7950	6250.0	84	12382	No
GOM_TRA_1PNPDE20040713_031154_000000622028_00304_12382_0004.N1	13-JUL-2004 03:11:54	Twilight	62.000	73	57Gam1And	2.2600	13100.	124	12382	No
GOM_TRA_1PNPDE20040713_031444_000001012028_00304_12382_0005.N1	13-JUL-2004 03:14:44	Twilight	101.00	53	43Bet And	2.0480	3300.0	202	12382	No
GOM_TRA_1PNPDE20040713_031803_000000452028_00304_12382_0006.N1	13-JUL-2004 03:18:03	Twilight	45.000	146	25Eta Tau	2.8730	15200.	90	12382	No
GOM_TRA_1PNPDE20040713_031937_000000472028_00304_12382_0007.N1	13-JUL-2004 03:19:37	Twilight	46.500	13	87Alp Tau	0.86700	3800.0	93	12382	No
GOM_TRA_1PNPDE20040713_032216_000000812028_00304_12382_0008.N1	13-JUL-2004 03:22:16	Dark	81.000	105	6Bet Ari	2.6450	8900.0	162	12382	No
GOM_TRA_1PNPDE20040713_032558_000000492028_00304_12382_0009.N1	13-JUL-2004 03:25:58	Dark	48.500	7	19Bet Ori	0.10000	14000.	97	12382	No
GOM_TRA_1PNPDE20040713_032829_000000392028_00304_12382_0010.N1	13-JUL-2004 03:28:29	Dark	38.500	101	11Alp Lep	2.5820	7000.0	77	12382	No
GOM_TRA_1PNPDE20040713_204021_000000582028_00315_12393_0000.N1	13-JUL-2004 20:40:21	Twilight	58.000	31	Alp Gru	1.7340	15200.	116	12393	Yes
GOM_TRA_1PNPDE20040713_204219_000000812028_00315_12393_0001.N1	13-JUL-2004 20:42:19	Bright	80.500	18	24Alp PsA	1.1660	9700.0	161	12393	No
GOM_TRA_1PNPDE20040713_204555_000000402028_00315_12393_0002.N1	13-JUL-2004 20:45:55	Bright	40.000	147	Alp Ara	2.8770	26000.	80	12393	No
GOM_TRA_1PNPDE20040713_204747_000000452028_00315_12393_0003.N1	13-JUL-2004 20:47:47	Bright	44.500	40	The Sco	1.8590	7100.0	89	12393	No
GOM_TRA_1PNPDE20040713_204927_000000442028_00315_12393_0004.N1	13-JUL-2004 20:49:27	Bright	43.500	25	35Lam Sco	1.6200	28000.	87	12393	No
GOM_TRA_1PNPDE20040713_205134_000000432028_00315_12393_0005.N1	13-JUL-2004 20:51:34	Bright	42.500	57	34Sig Sgr	2.0660	26000.	85	12393	No
GOM_TRA_1PNPDE20040713_205332_000000872028_00315_12393_0006.N1	13-JUL-2004 20:53:32	Bright	86.500	142	49Del Cap	2.8500	8900.0	173	12393	No
GOM_TRA_1PNPDE20040713_210055_000000382028_00315_12393_0007.N1	13-JUL-2004 21:00:55	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	12393	No
GOM_TRA_1PNPDE20040713_210313_000000382028_00315_12393_0008.N1	13-JUL-2004 21:03:13	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	12393	No
GOM_TRA_1PNPDE20040713_210631_000000402028_00315_12393_0009.N1	13-JUL-2004 21:06:31	Bright	40.000	127	27Bet Her	2.7810	4700.0	80	12393	No
GOM_TRA_1PNPDE20040713_210903_000000382028_00315_12393_0010.N1	13-JUL-2004 21:09:03	Bright	37.500	133	40Zet Her	2.8070	6000.0	75	12393	No
GOM_TRA_1PNPDE20040713_211050_000000392028_00315_12393_0011.N1	13-JUL-2004 21:10:50	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	12393	No
GOM_TRA_1PNPDE20040713_211408_000000412028_00315_12393_0012.N1	13-JUL-2004 21:14:08	Bright	40.500	69	33Gam Dra	2.2310	3800.0	81	12393	No
GOM_TRA_1PNPDE20040713_211715_000000382028_00315_12393_0013.N1	13-JUL-2004 21:17:15	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	12393	No
GOM_TRA_1PNPDE20040713_212127_000000362028_00315_12393_0014.N1	13-JUL-2004 21:21:27	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	12393	No
GOM_TRA_1PNPDE20040713_212507_000000372028_00315_12393_0015.N1	13-JUL-2004 21:25:07	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	12393	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.

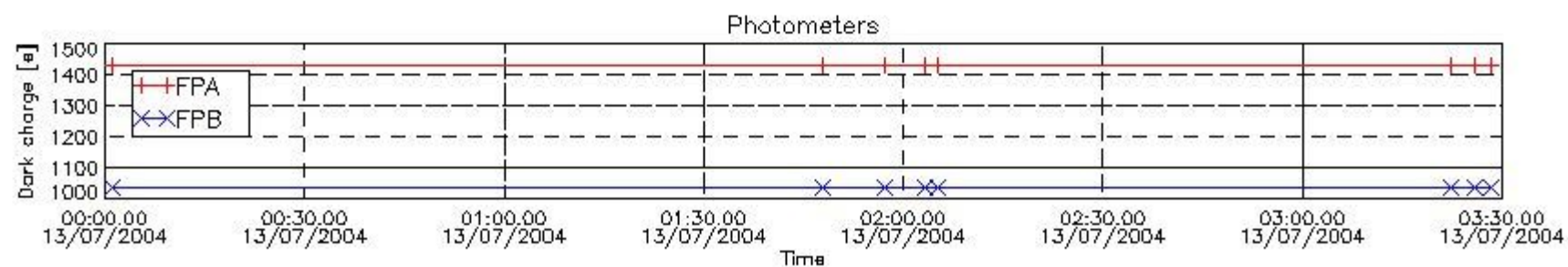
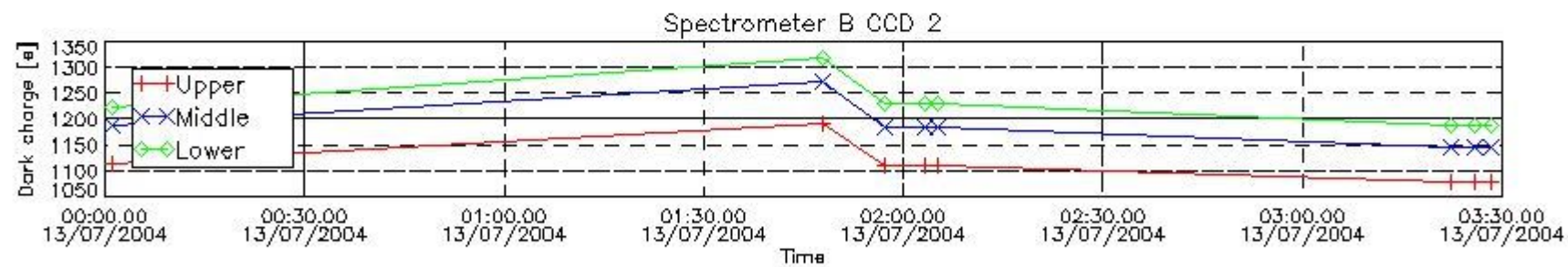
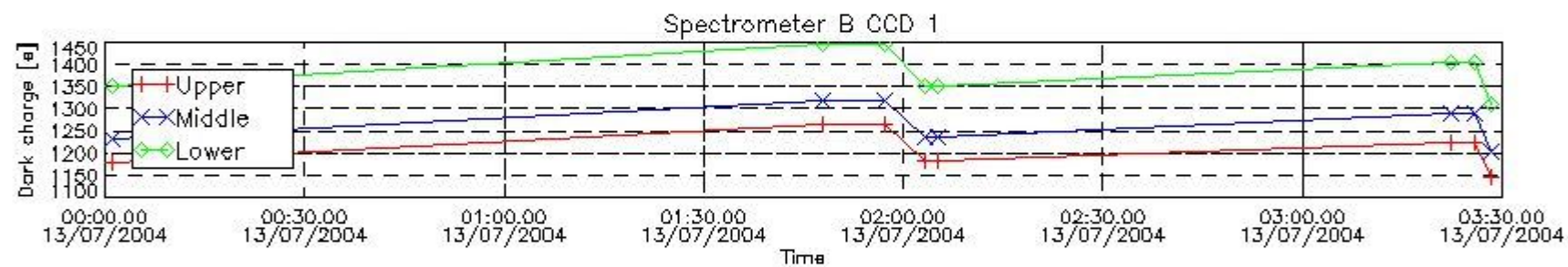
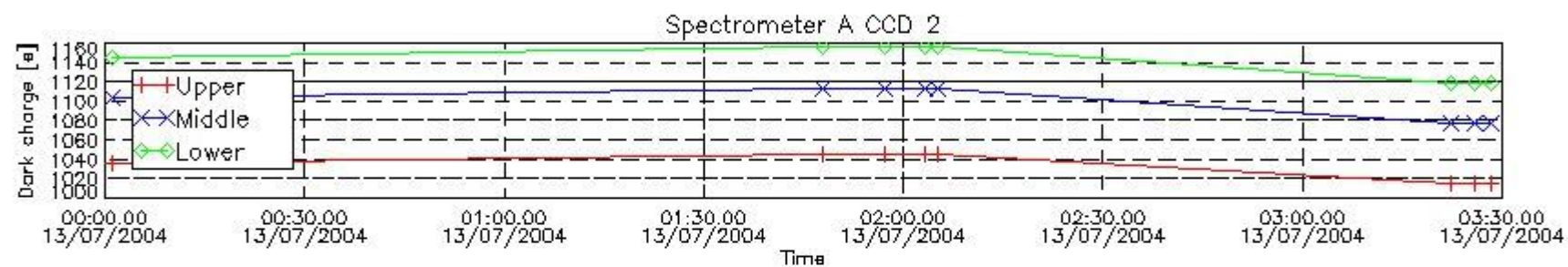
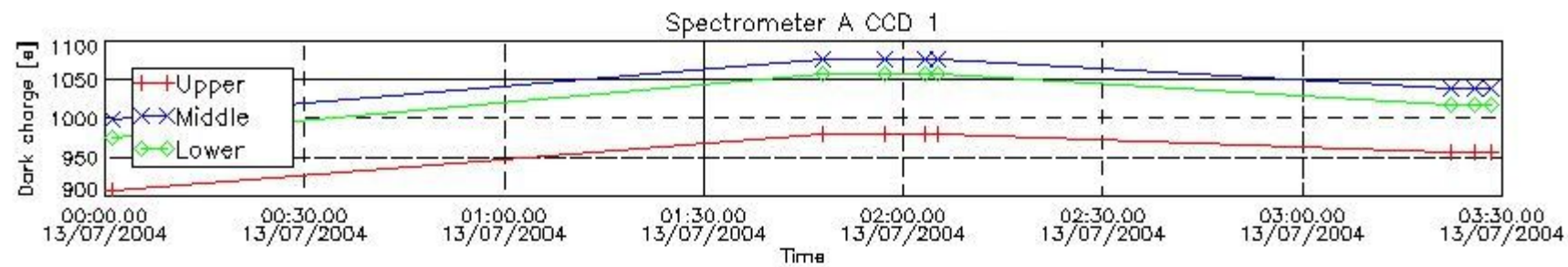
#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20040713_000102_000000812028_00302_12380_0027.N1	DC map used (0)
GOM_TRA_1PNPDE20040713_204021_000000582028_00315_12393_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20040713_204219_000000812028_00315_12393_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040713_204555_000000402028_00315_12393_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040713_204747_000000452028_00315_12393_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040713_204927_000000442028_00315_12393_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040713_205134_000000432028_00315_12393_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20040713_205332_000000872028_00315_12393_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20040713_210055_000000382028_00315_12393_0007.N1	DC map used (0)



GOM_TRA_1PNPDE20040713_210313_000000382028_00315_12393_0008.N1	DC map used (0)
GOM_TRA_1PNPDE20040713_210631_000000402028_00315_12393_0009.N1	DC map used (0)
GOM_TRA_1PNPDE20040713_210903_000000382028_00315_12393_0010.N1	DC map used (0)
GOM_TRA_1PNPDE20040713_211050_000000392028_00315_12393_0011.N1	DC map used (0)
GOM_TRA_1PNPDE20040713_211408_000000412028_00315_12393_0012.N1	DC map used (0)
GOM_TRA_1PNPDE20040713_211715_000000382028_00315_12393_0013.N1	DC map used (0)
GOM_TRA_1PNPDE20040713_212127_000000362028_00315_12393_0014.N1	DC map used (0)
GOM_TRA_1PNPDE20040713_212507_000000372028_00315_12393_0015.N1	DC map used (0)
GOM_TRA_1PNPDE20040713_212855_000000552028_00315_12393_0016.N1	DC map used (0)

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



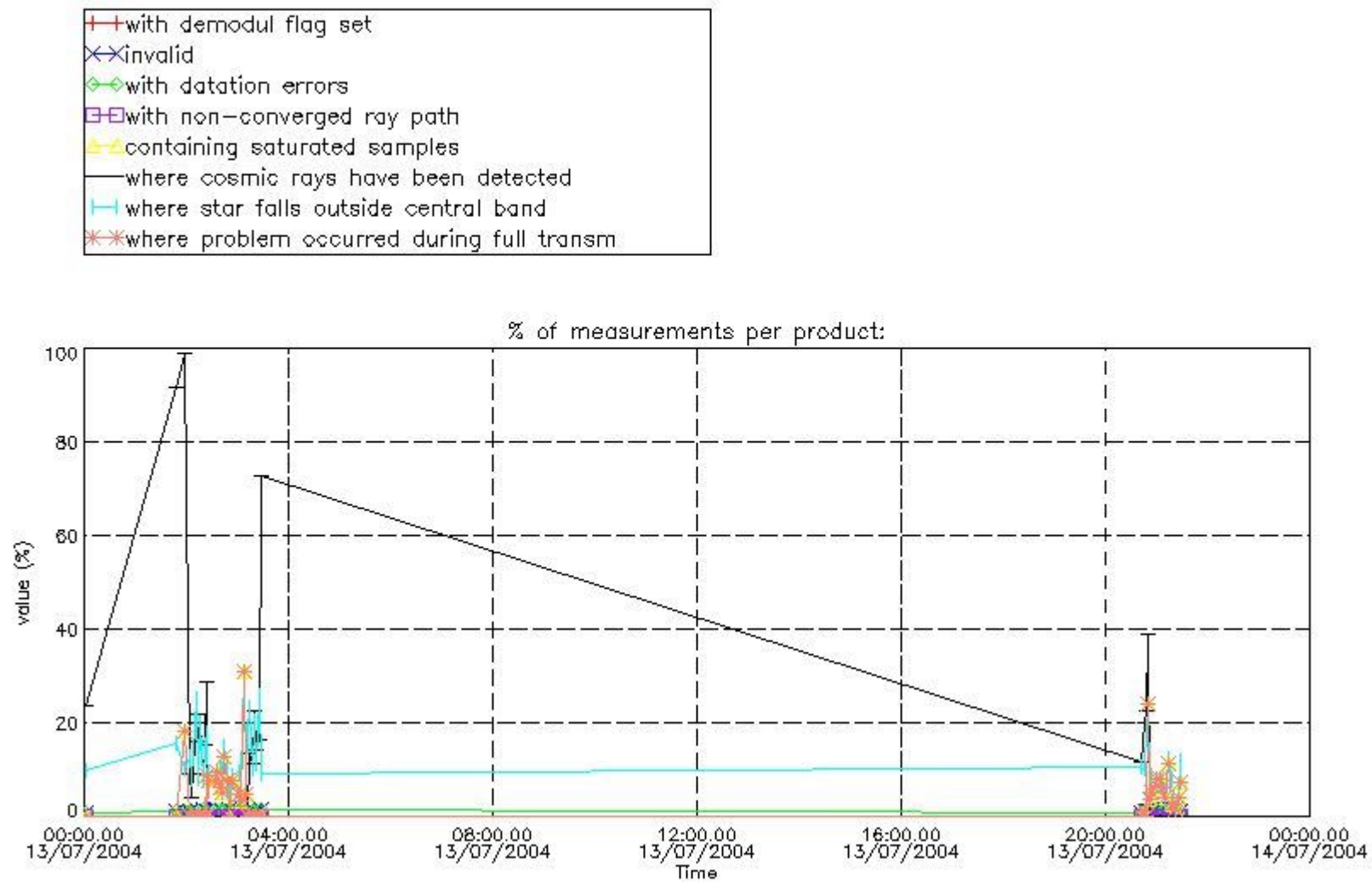
## 5. Demodulation flag and quality information monitoring

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 %

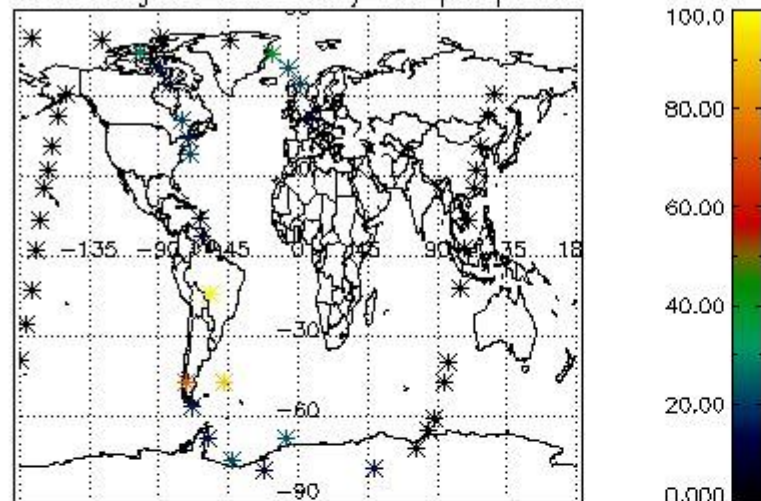
### 5.2 Plot quality information per product (time dependant)



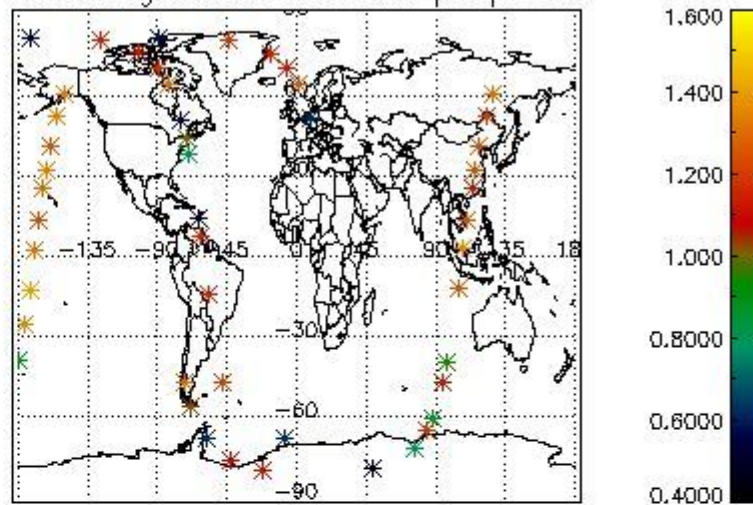
### 5.3 Plot quality information per product (world map)



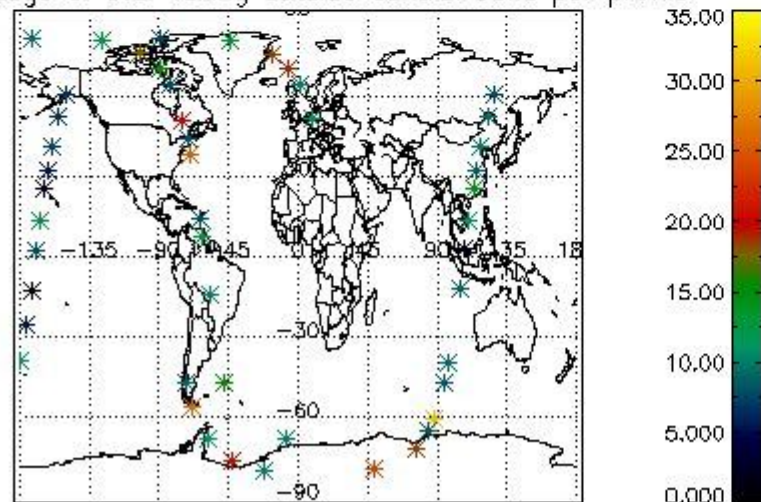
Percentage of cosmic ray hits per profile



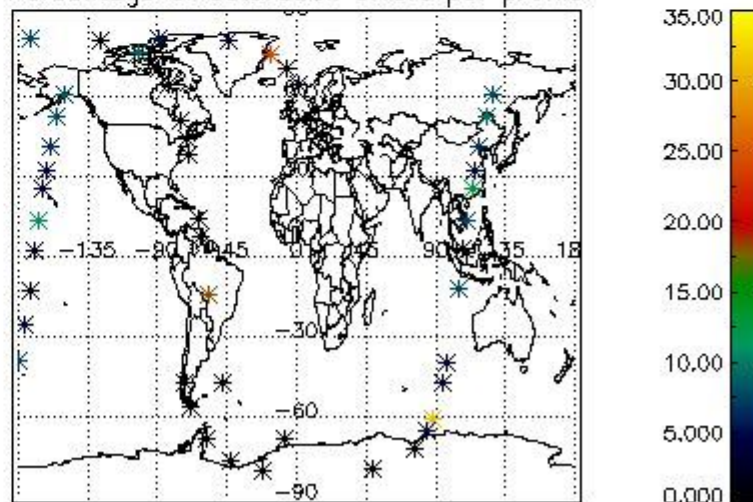
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



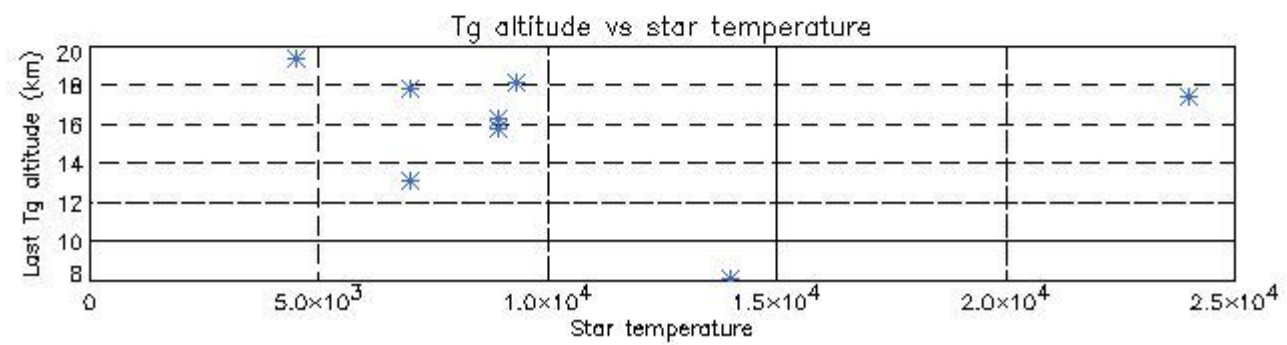
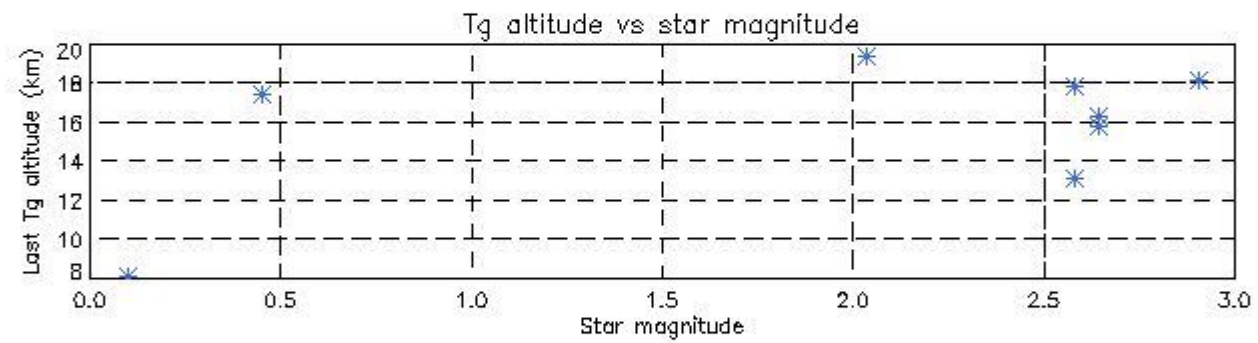
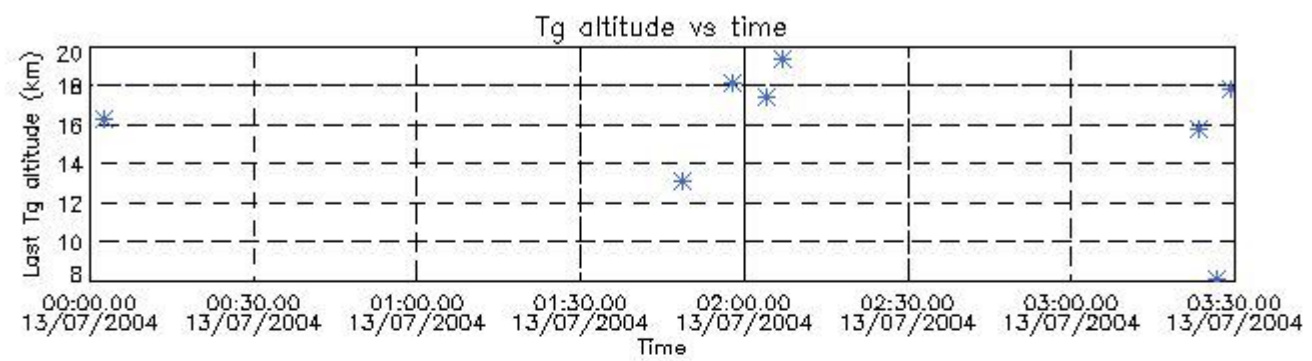
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.770	17.833	12.930
St. deviation:	3.6351	3.9091	4.0018
Maximum:	19.397	25.626	18.581
Minimum:	8.0789	5.7023	8.1596
Number of data:	8.0000	34.000	6.0000

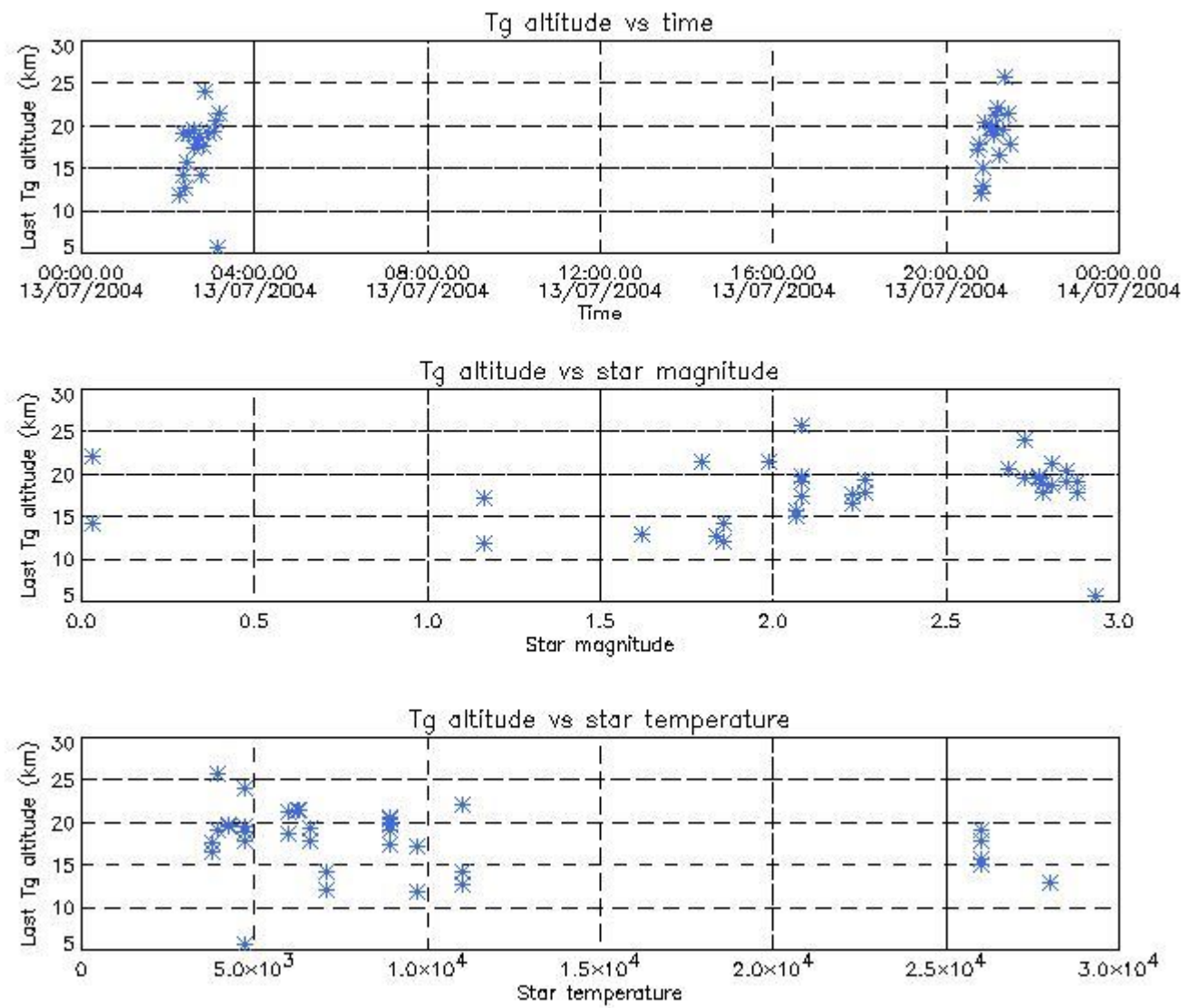
### 6.2 Plot for DARK limb products

# Tangent altitude at which the star is lost



## 6.3 Plot for BRIGHT limb products

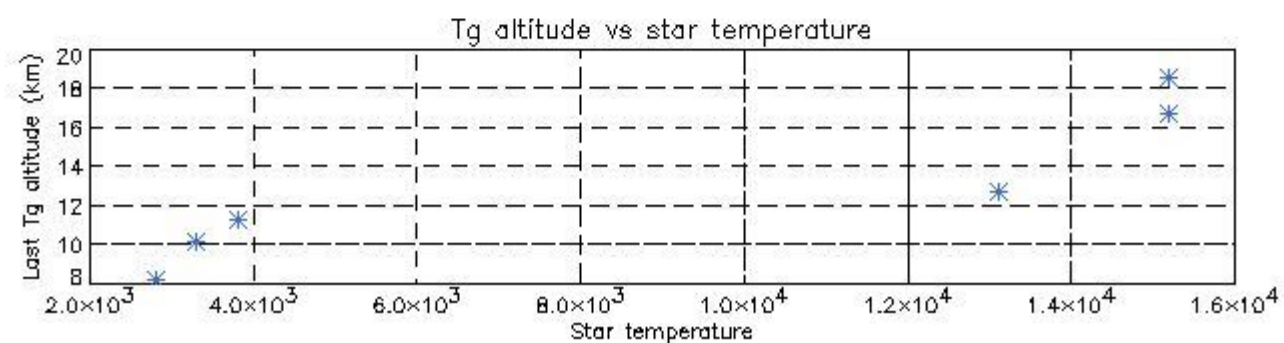
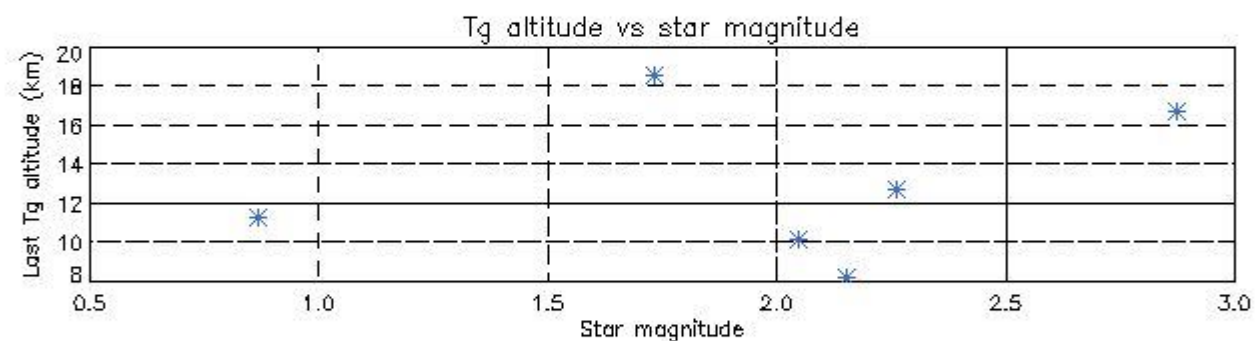
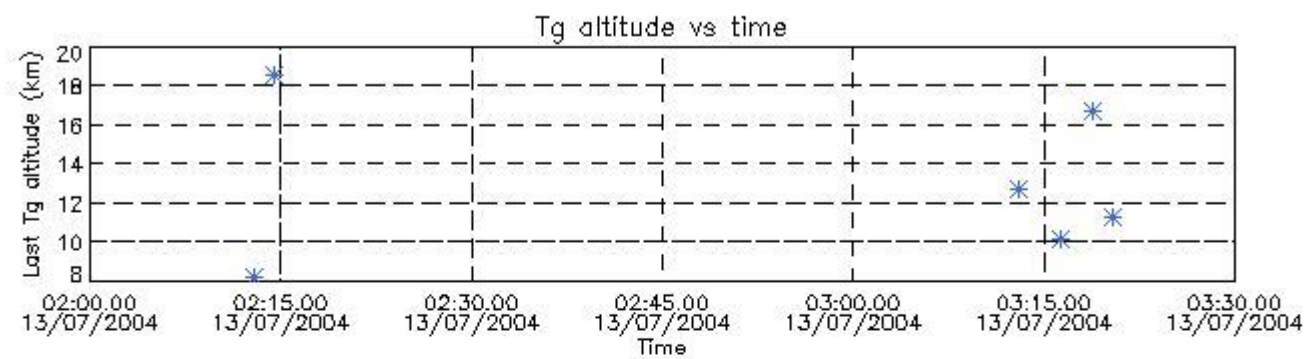
## Tangent altitude at which the star is lost



### 6.3 Plot for TWILIGHT limb products



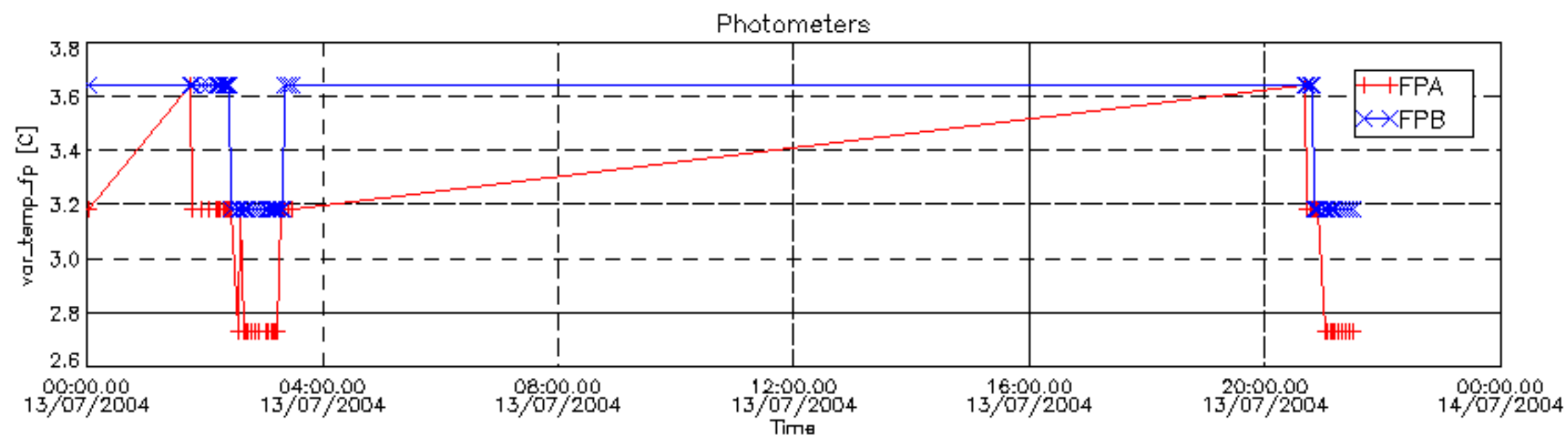
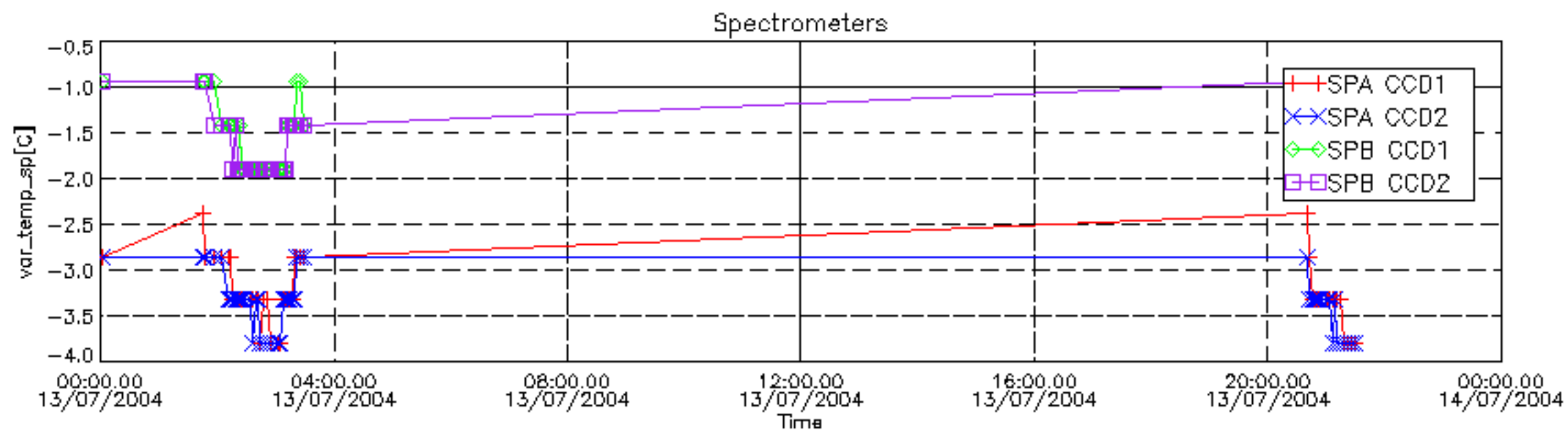
## Tangent altitude at which the star is lost

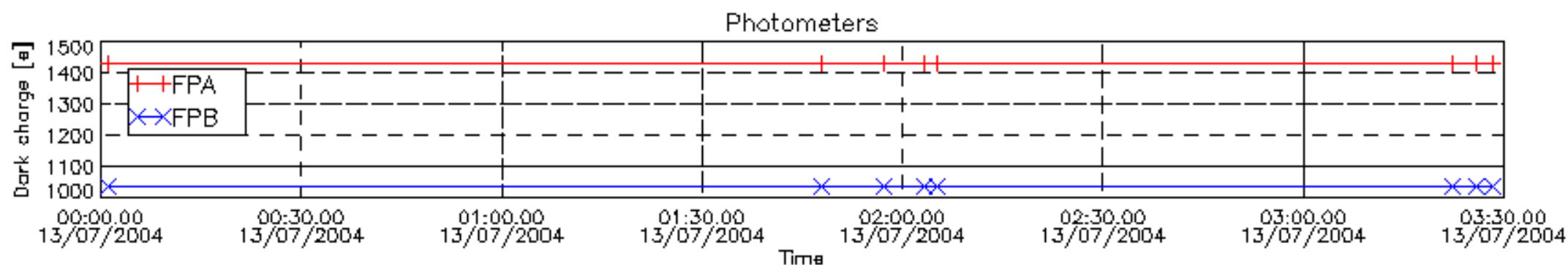
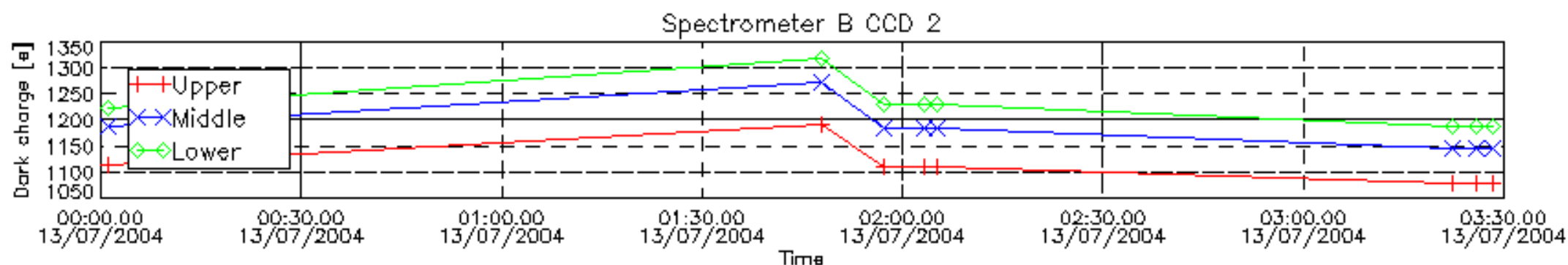
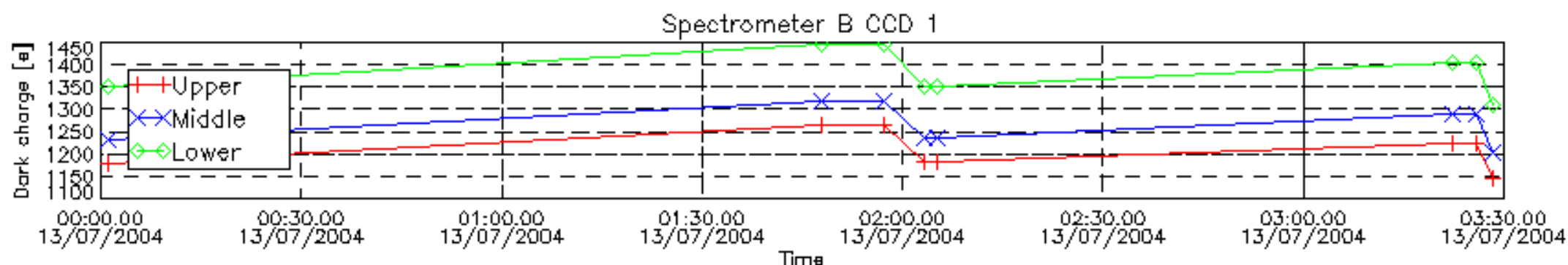
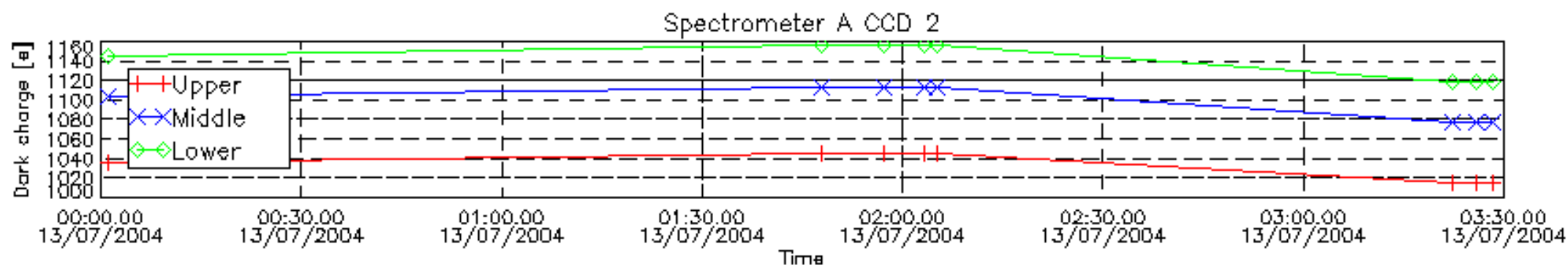
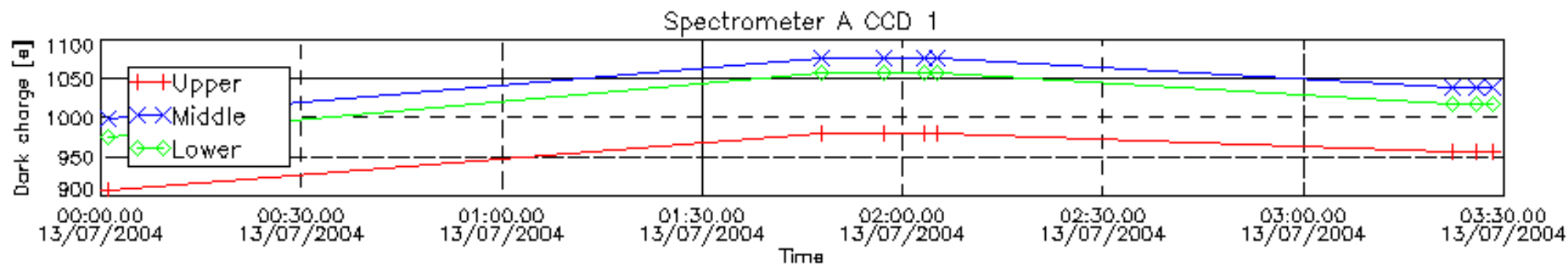


### 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

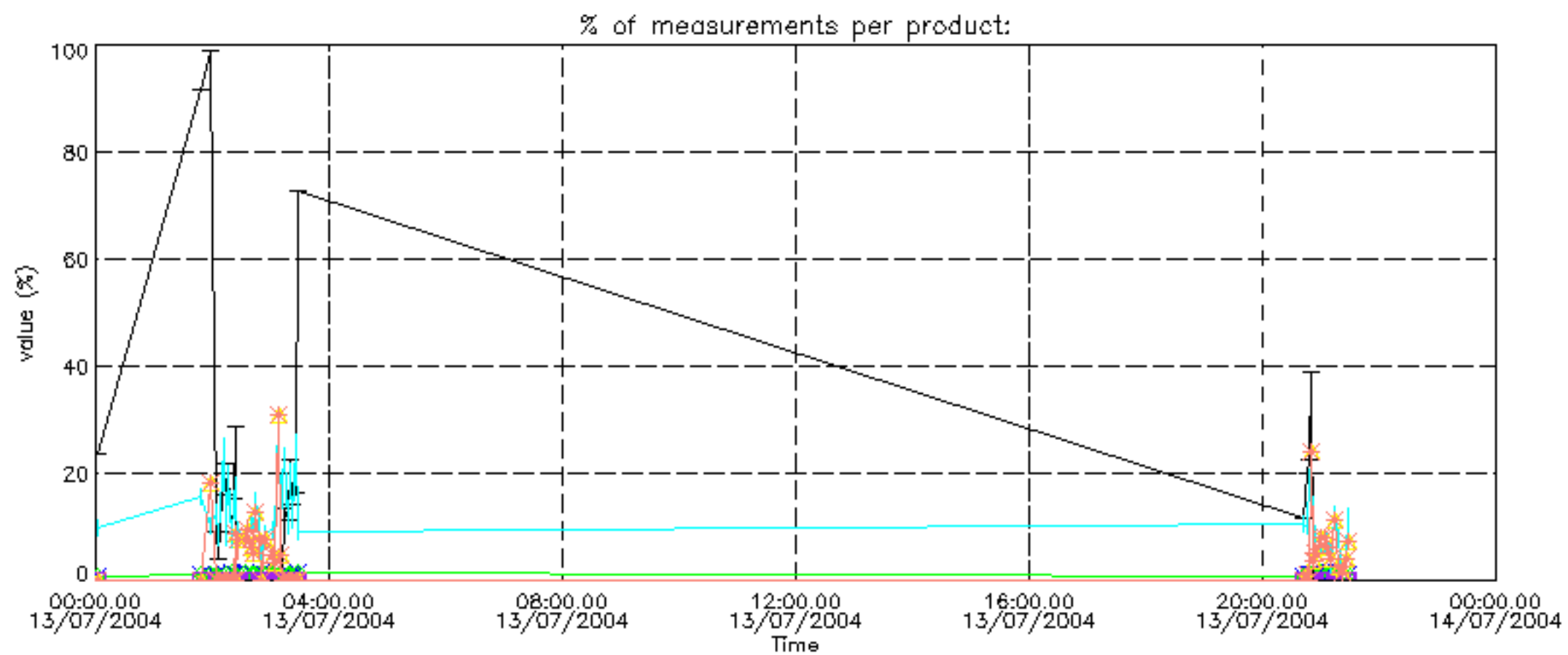
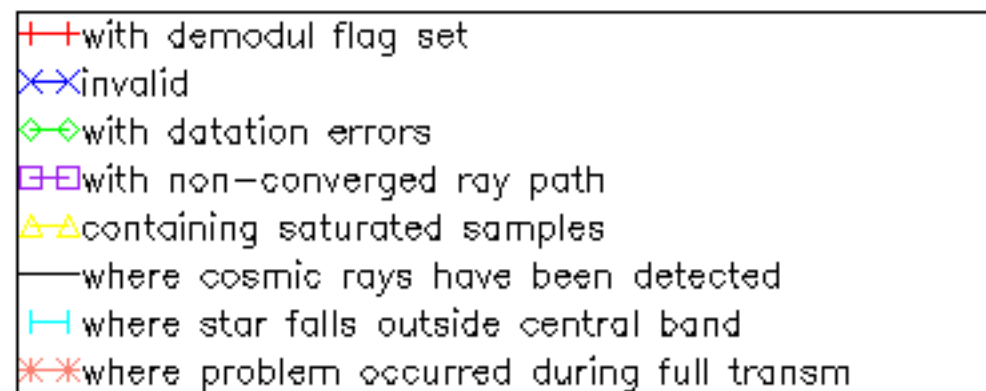
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1460.9	1449.2	1461.2	1447.1
St. deviation:	5.8982	6.6126	6.2592	6.9169
Maximum:	1503.0	1599.0	1508.0	1497.0
Minimum:	1437.0	1424.0	1440.0	1428.0
Number of data:	12100.	12100.	41050.	41050.

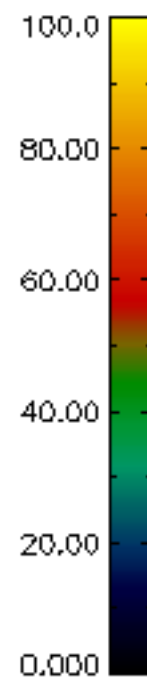
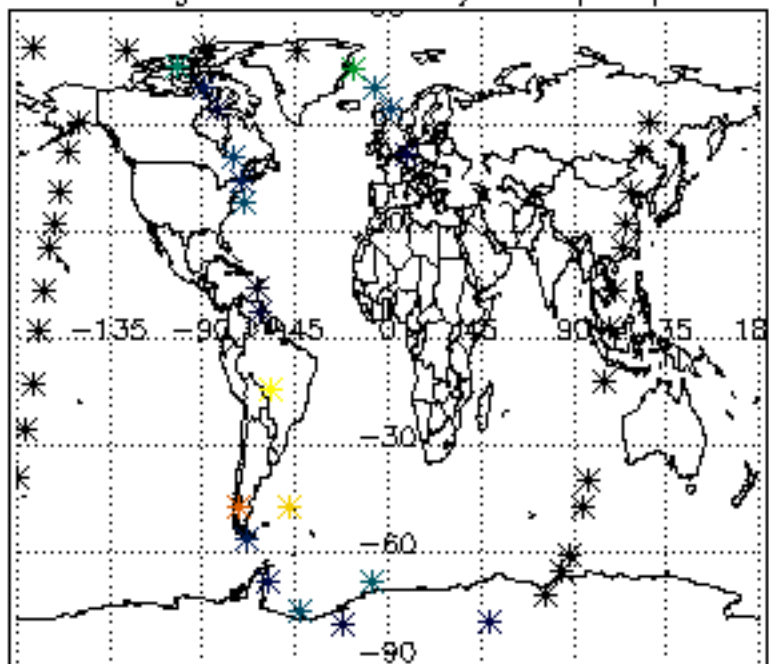




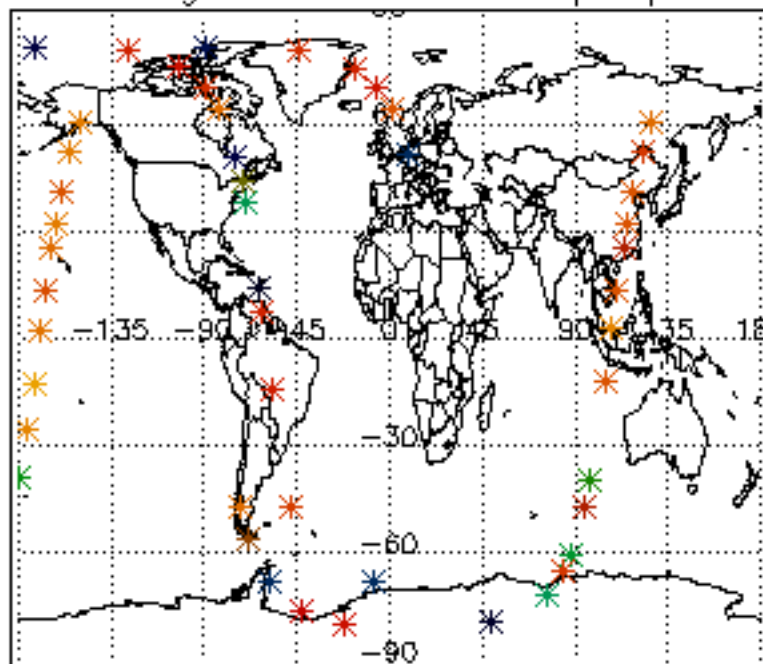




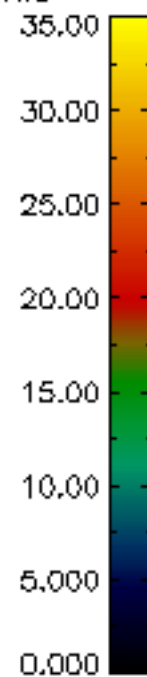
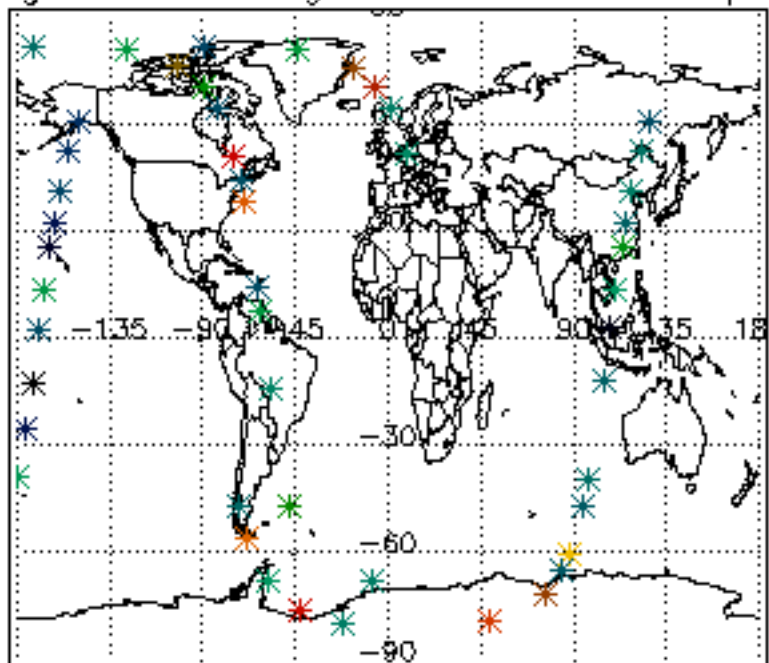
Percentage of cosmic ray hits per profile



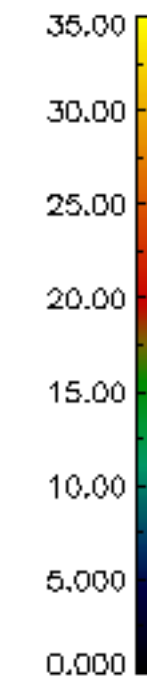
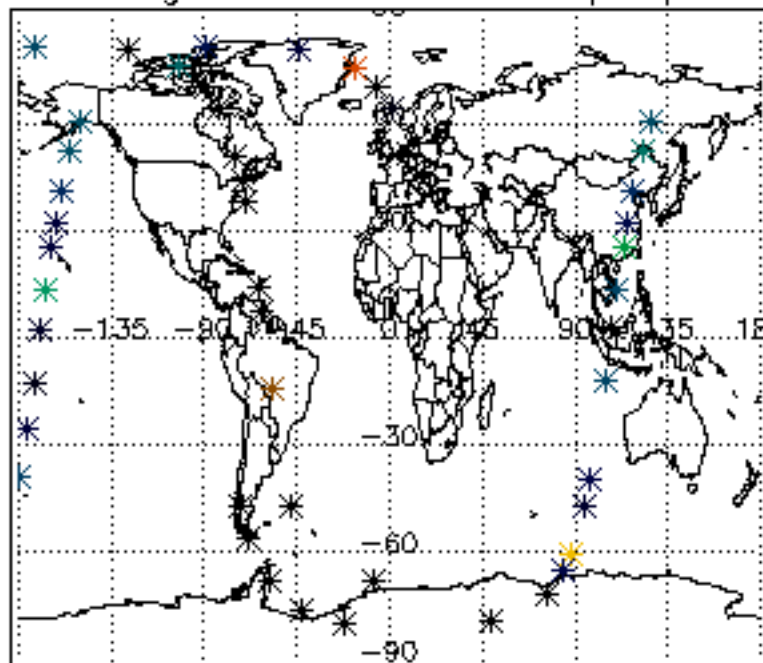
Percentage of datation errors per profile



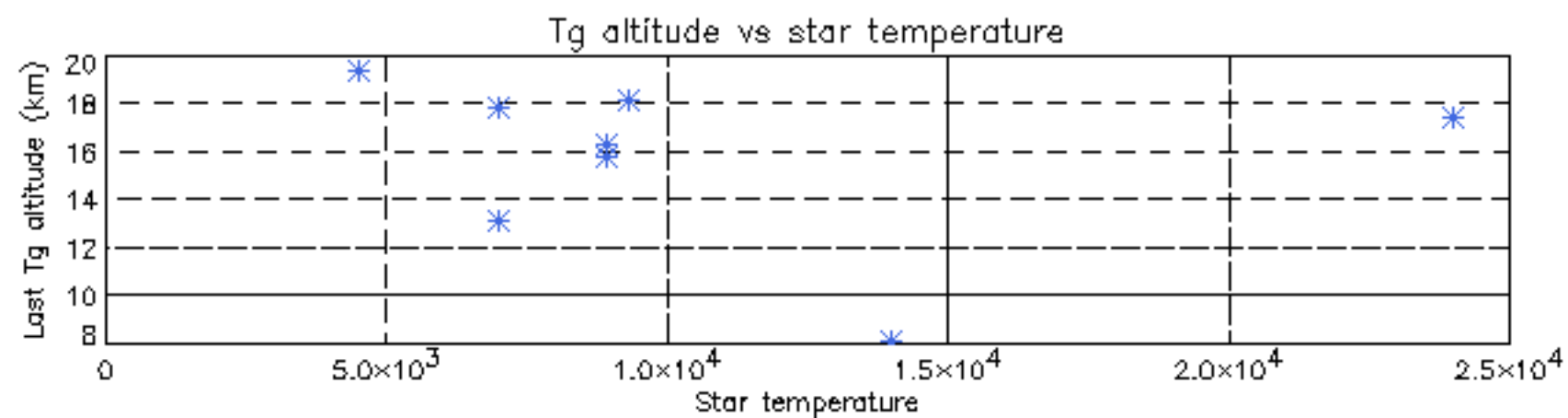
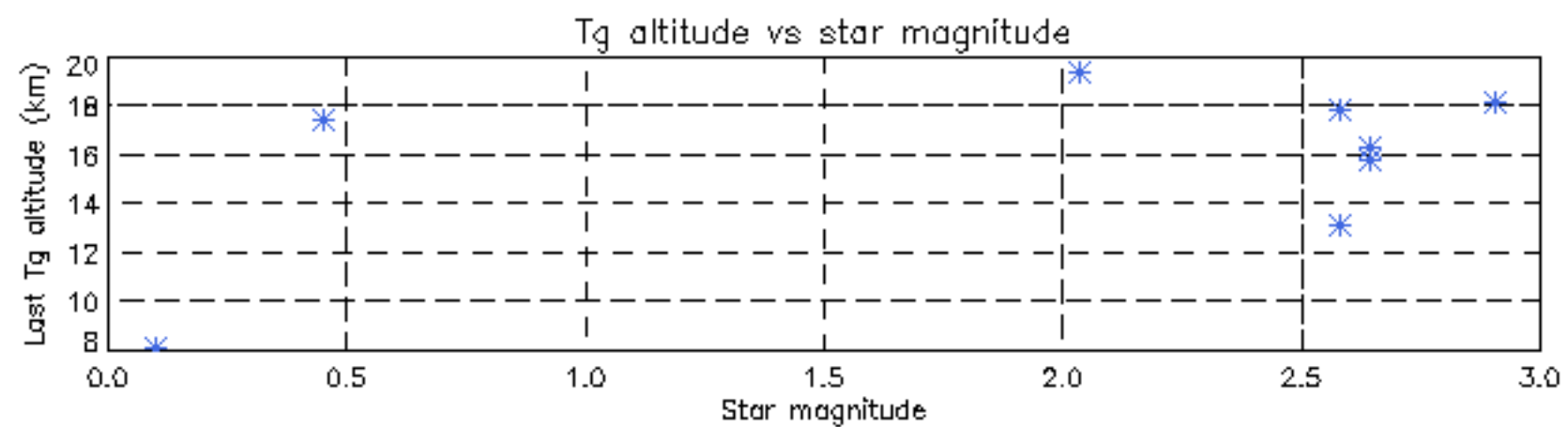
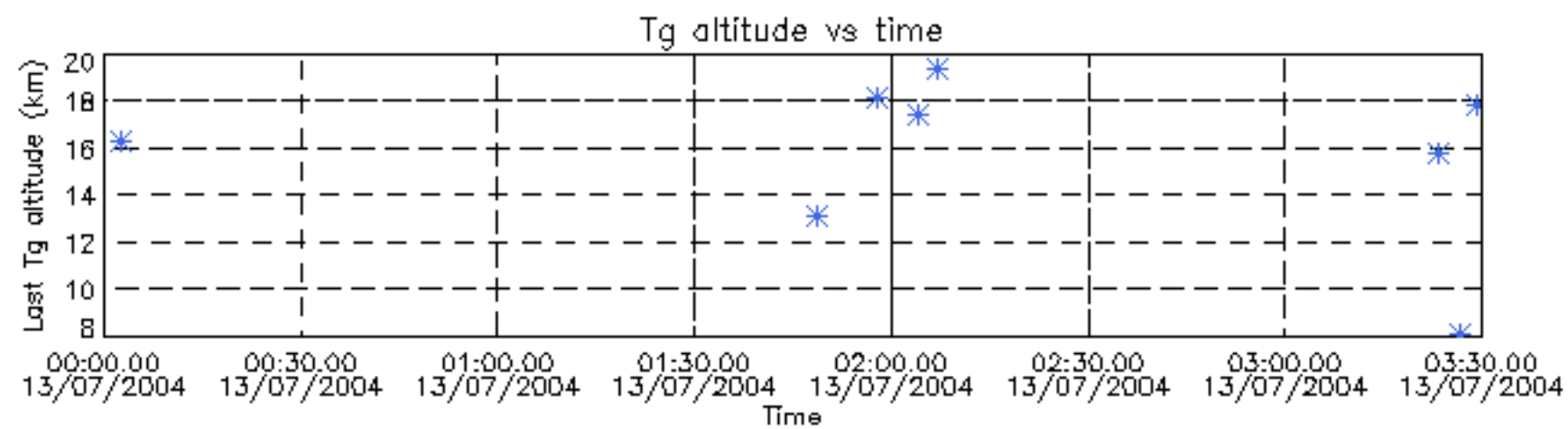
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

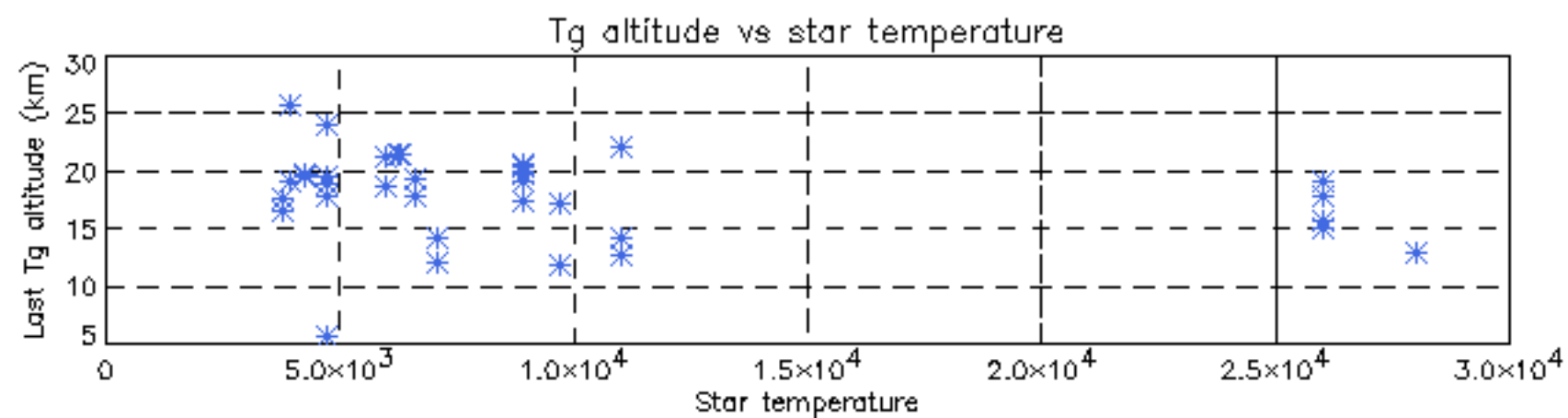
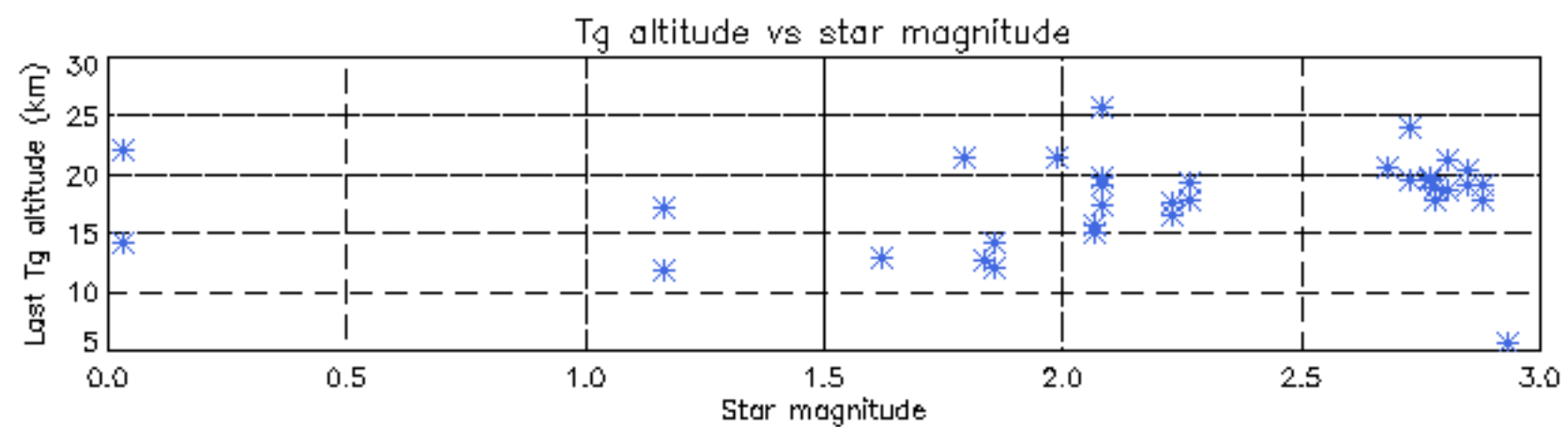
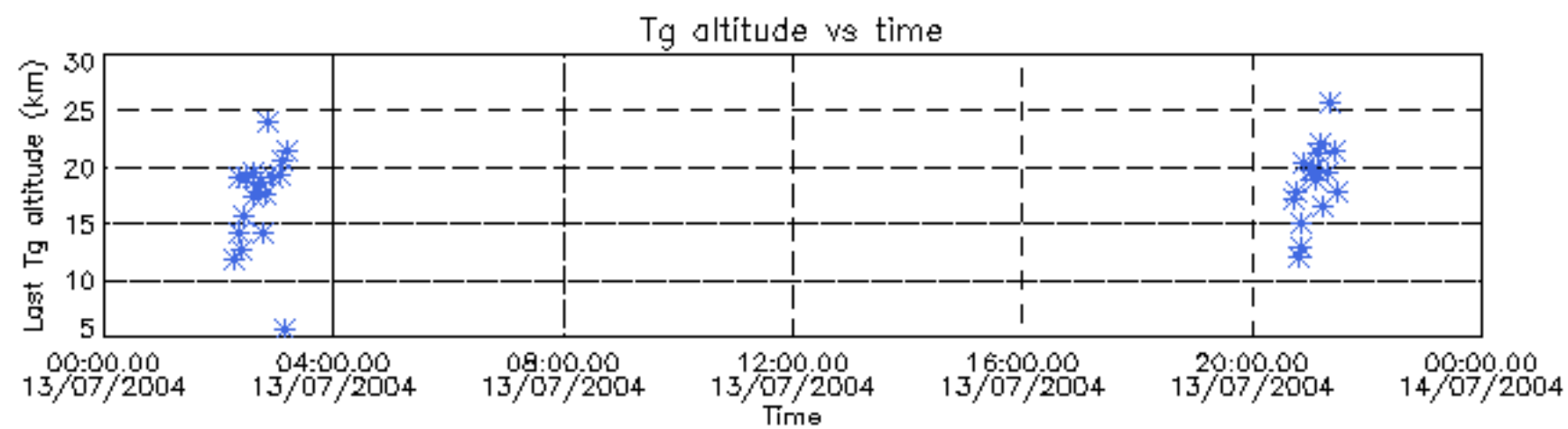


Tangent altitude at which the star is lost

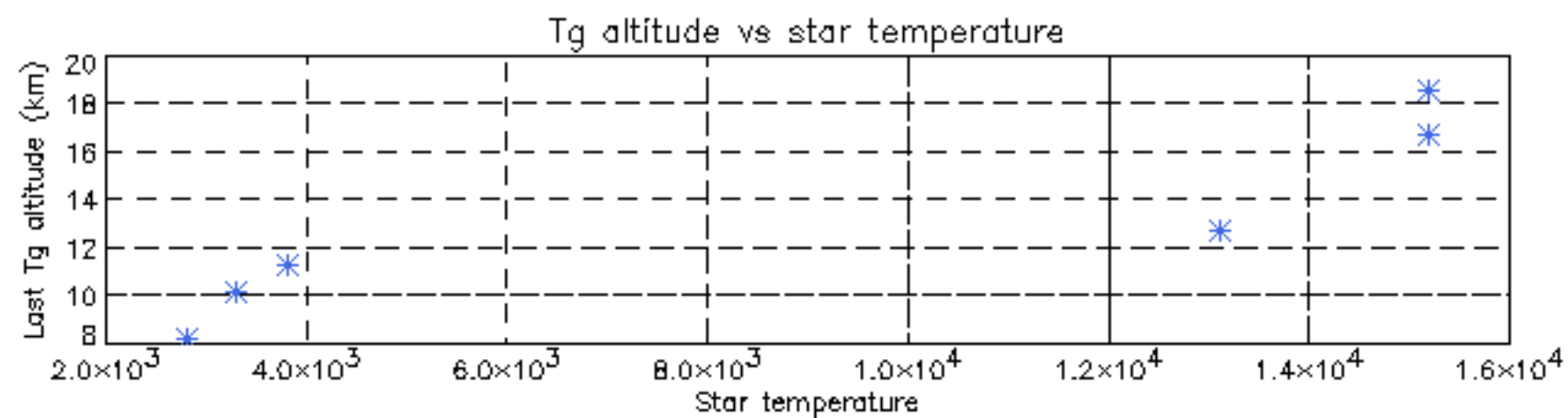
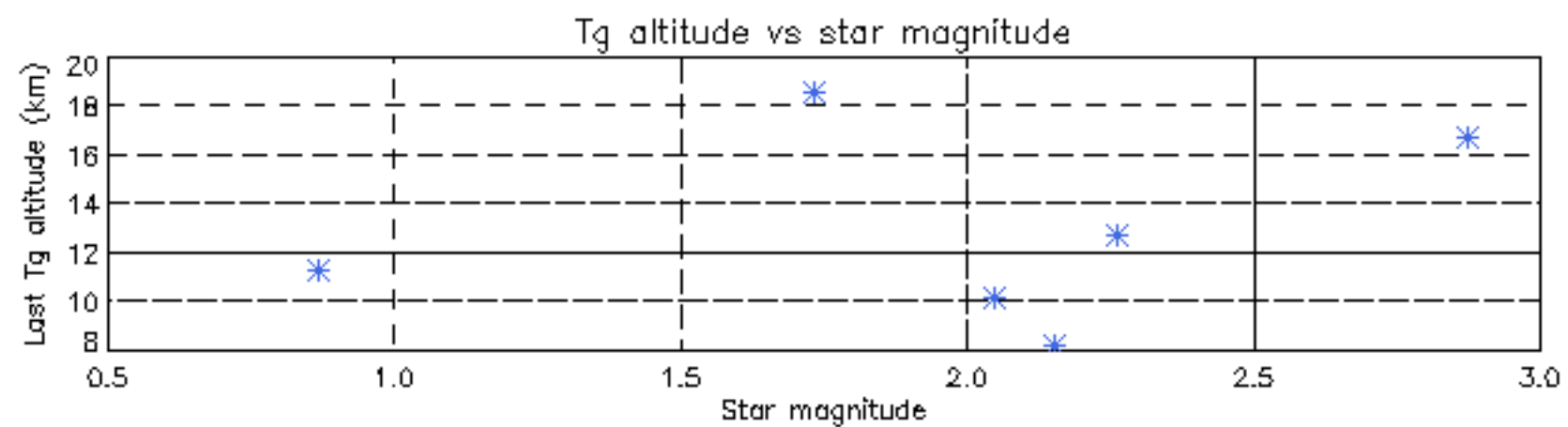
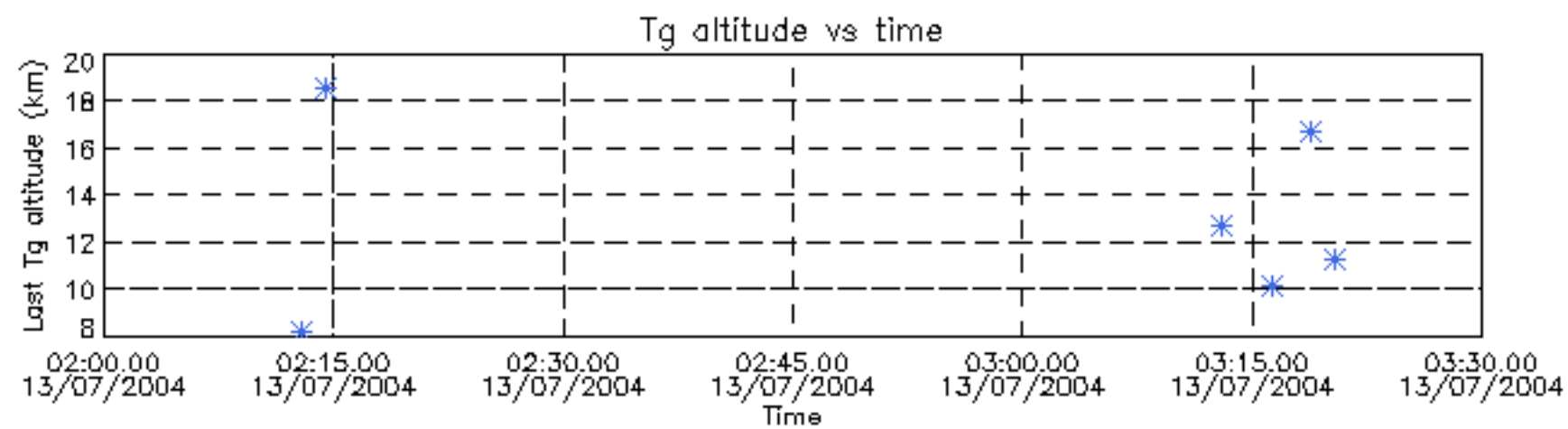




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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2;	-494.6;	01-JUL-2004	01:29:53;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12209
3;	-163.9;	01-JUL-2004	01:35:23;	Dark	;	77.5;	52;	16Bet Cet	;	2.04;	4500;occ;	155;	0;	12209
4;	36.9;	01-JUL-2004	01:38:44;	Dark	;	53.0;	9;	Alp Eri	;	0.45;	24000;occ;	106;	0;	12210
5;	314.6;	01-JUL-2004	01:43:22;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	12210
6;	489.7;	01-JUL-2004	01:46:17;	Dark	;	58.5;	63;	Bet Gru	;	2.15;	2800;occ;	117;	0;	12210
7;	585.8;	01-JUL-2004	01:47:53;	Dark	;	86.5;	18;	24Alp PsA	;	1.17;	9700;occ;	173;	0;	12210
8;	746.2;	01-JUL-2004	01:50:33;	Dark	;	44.0;	45;	Alp Pav	;	1.94;	26000;occ;	88;	0;	12210
9;	975.1;	01-JUL-2004	01:54:22;	Dark	;	40.0;	141;	Bet Ara	;	2.84;	4600;occ;	80;	0;	12210
10;	1061.4;	01-JUL-2004	01:55:49;	Dark	;	40.0;	147;	Alp Ara	;	2.88;	26000;occ;	80;	0;	12210
11;	1169.8;	01-JUL-2004	01:57:37;	Dark	;	45.5;	40;	The Sco	;	1.86;	7100;occ;	91;	0;	12210
12;	1269.3;	01-JUL-2004	01:59:17;	Dark	;	46.0;	25;	35Lam Sco	;	1.62;	28000;occ;	92;	0;	12210
13;	1354.2;	01-JUL-2004	02:00:41;	Dark	;	55.0;	116;	19Del Sgr	;	2.70;	4100;occ;	110;	0;	12210
14;	1480.2;	01-JUL-2004	02:02:47;	Bright;		45.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	90;	0;	12210
15;	1641.2;	01-JUL-2004	02:05:28;	Bright;		39.0;	86;	35Eta Oph	;	2.43;	10200;occ;	78;	0;	12210
16;	1744.8;	01-JUL-2004	02:07:12;	Bright;		41.0;	98;	13Zet Oph	;	2.57;	30000;occ;	82;	0;	12210
17;	1877.5;	01-JUL-2004	02:09:25;	Bright;		40.5;	120;	1Del Oph	;	2.73;	3200;occ;	81;	0;	12210
18;	1979.7;	01-JUL-2004	02:11:07;	Bright;		39.5;	126;	60Bet Oph	;	2.77;	4250;occ;	79;	0;	12210
19;	2119.5;	01-JUL-2004	02:13:27;	Bright;		39.0;	59;	55Alp Oph	;	2.08;	8900;occ;	78;	0;	12210
20;	2281.8;	01-JUL-2004	02:16:09;	Bright;		37.0;	127;	27Bet Her	;	2.78;	4700;occ;	74;	0;	12210
21;	2445.7;	01-JUL-2004	02:18:53;	Bright;		37.5;	133;	40Zet Her	;	2.81;	6000;occ;	75;	0;	12210
22;	2647.9;	01-JUL-2004	02:22:15;	Bright;		48.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	97;	0;	12210
23;	2806.6;	01-JUL-2004	02:24:54;	Bright;		39.0;	130;	23Bet Dra	;	2.80;	5800;occ;	78;	0;	12210
24;	2948.0;	01-JUL-2004	02:27:15;	Bright;		39.0;	119;	14Eta Dra	;	2.73;	4700;occ;	78;	0;	12210
25;	3190.4;	01-JUL-2004	02:31:18;	Bright;		36.0;	60;	7Bet UMi	;	2.08;	3950;occ;	72;	0;	12210
26;	3339.1;	01-JUL-2004	02:33:46;	Bright;		43.0;	89;	5Alp Cep	;	2.45;	8000;occ;	86;	0;	12210
27;	3442.7;	01-JUL-2004	02:35:30;	Bright;		36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	12210

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2;	-2161.2;	01-JUL-2004	02:42:42;	Bright;		41.5;	110;	37Del Cas	;	2.68;	8900;occ;	83;	0;	12210
3;	-1976.0;	01-JUL-2004	02:45:47;	Bright;		46.5;	160;	23Gam Per	;	2.93;	4700;occ;	93;	0;	12210
4;	-1871.6;	01-JUL-2004	02:47:31;	Bright;		36.0;	175;	39Del Per	;	3.01;	19400;occ;	72;	0;	12210
5;	-1770.5;	01-JUL-2004	02:49:13;	Bright;		52.5;	73;	57Gam1And	;	2.26;	13100;occ;	105;	0;	12210
6;	-1616.9;	01-JUL-2004	02:51:46;	Dark	;	68.5;	53;	43Bet And	;	2.05;	3300;occ;	137;	0;	12210
7;	-1355.5;	01-JUL-2004	02:56:08;	Dark	;	66.5;	50;	13Alp Ari	;	2.01;	4250;occ;	133;	0;	12210
8;	-1058.3;	01-JUL-2004	03:01:05;	Dark	;	58.0;	94;	92Alp Cet	;	2.53;	3100;occ;	116;	0;	12210
9;	-835.8;	01-JUL-2004	03:04:47;	Dark	;	46.5;	165;	34Gam Eri	;	2.95;	3200;occ;	93;	0;	12210
10;	-494.4;	01-JUL-2004	03:10:29;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12210
11;	-330.3;	01-JUL-2004	03:13:13;	Dark	;	40.5;	157;	The1Eri	;	2.91;	9300;occ;	81;	0;	12210
12;	-162.7;	01-JUL-2004	03:16:00;	Dark	;	90.5;	52;	16Bet Cet	;	2.04;	4500;occ;	181;	0;	12210
13;	38.0;	01-JUL-2004	03:19:21;	Dark	;	50.0;	9;	Alp Eri	;	0.45;	24000;occ;	100;	0;	12211
14;	314.9;	01-JUL-2004	03:23:58;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	12211
15;	490.7;	01-JUL-2004	03:26:54;	Dark	;	65.5;	63;	Bet Gru	;	2.15;	2800;occ;	131;	0;	12211
16;	587.9;	01-JUL-2004	03:28:31;	Dark	;	82.5;	18;	24Alp PsA	;	1.17;	9700;occ;	165;	0;	12211
17;	747.1;	01-JUL-2004	03:31:10;	Dark	;	44.5;	45;	Alp Pav	;	1.94;	26000;occ;	89;	0;	12211
18;	975.2;	01-JUL-2004	03:34:58;	Dark	;	41.0;	141;	Bet Ara	;	2.84;	4600;occ;	82;	0;	12211
19;	1062.4;	01-JUL-2004	03:36:25;	Dark	;	41.0;	147;	Alp Ara	;	2.88;	26000;occ;	82;	0;	12211
20;	1170.6;	01-JUL-2004	03:38:14;	Dark	;	41.5;	40;	The Sco	;	1.86;	7100;occ;	83;	0;	12211
21;	1267.9;	01-JUL-2004	03:39:51;	Dark	;	46.5;	25;	35Lam Sco	;	1.62;	28000;occ;	93;	0;	12211
22;	1355.5;	01-JUL-2004	03:41:19;	Dark	;	46.0;	116;	19Del Sgr	;	2.70;	4100;occ;	92;	0;	12211
23;	1480.2;	01-JUL-2004	03:43:23;	Bright;		46.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	92;	0;	12211
24;	1642.0;	01-JUL-2004	03:46:05;	Bright;		39.0;	86;	35Eta Oph	;	2.43;	10200;occ;	78;	0;	12211
25;	1746.8;	01-JUL-2004	03:47:50;	Bright;		39.0;	98;	13Zet Oph	;	2.57;	30000;occ;	78;	0;	12211
26;	1877.8;	01-JUL-2004	03:50:01;	Bright;		39.5;	120;	1Del Oph	;	2.73;	3200;occ;	79;	0;	12211
27;	1979.9;	01-JUL-2004	03:51:43;	Bright;		38.5;	126;	60Bet Oph	;	2.77;	4250;occ;	77;	0;	12211
28;	2120.0;	01-JUL-2004	03:54:03;	Bright;		39.0;	59;	55Alp Oph	;	2.08;	8900;occ;	78;	0;	12211
29;	2282.2;	01-JUL-2004	03:56:45;	Bright;		37.0;	127;	27Bet Her	;	2.78;	4700;occ;	74;	0;	12211
30;	2446.6;	01-JUL-2004	03:59:30;	Bright;		39.0;	133;	40Zet Her	;	2.81;	6000;occ;	78;	0;	12211
31;	2647.3;	01-JUL-2004	04:02:50;	Bright;		48.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	97;	0;	12211
32;	2806.7;	01-JUL-2004	04:05:30;	Bright;		38.5;	130;	23Bet Dra	;	2.80;	5800;occ;	77;	0;	12211
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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
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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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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
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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
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
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7;-1355.8; 01-JUL-2004 06:17:19; Dark ; 64.0; 50; 13Alp Ari ; 2.01; 4250;occ; 128; 0;12212
8;-1056.5; 01-JUL-2004 06:22:19; Dark ; 52.0; 94; 92Alp Cet ; 2.53; 3100;occ; 104; 0;12212
9; -834.7; 01-JUL-2004 06:26:00; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;12212
10; -494.1; 01-JUL-2004 06:31:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12212
11; -328.5; 01-JUL-2004 06:34:27; Dark ; 39.0; 157; The1Eri ; 2.91; 9300;occ; 78; 0;12212
12; -158.6; 01-JUL-2004 06:37:17; Dark ; 93.0; 52; 16Bet Cet ; 2.04; 4500;occ; 186; 0;12212
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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
24;-1347.4; 02-JUL-2004 17:30:03; Dark ; 63.0; 50; 13Alp Ari ; 2.01; 4250;occ; 126; 0;12233
25;-1047.5; 02-JUL-2004 17:35:03; Dark ; 52.0; 94; 92Alp Cet ; 2.53; 3100;occ; 104; 0;12233
26;-831.0; 02-JUL-2004 17:38:39; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;12233
27;-507.0; 02-JUL-2004 17:44:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12233
28;-319.7; 02-JUL-2004 17:47:10; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;12233
29;-119.0; 02-JUL-2004 17:50:31; Dark ; 83.0; 52; 16Bet Cet ; 2.04; 4500;occ; 166; 0;12233
30; 48.3; 02-JUL-2004 17:53:18; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;12234
31; 320.1; 02-JUL-2004 17:57:50; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;12234
32; 513.0; 02-JUL-2004 18:01:03; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;12234
33; 628.0; 02-JUL-2004 18:02:58; Dark ; 82.5; 18; 24Alp PsA ; 1.17; 9700;occ; 165; 0;12234
34; 804.3; 02-JUL-2004 18:05:54; Dark ; 59.0; 172; Gam Gru ; 3.00; 13100;occ; 118; 0;12234
35; 978.9; 02-JUL-2004 18:08:49; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;12234

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 13;-3588.1; 02-JUL-2004 18:33:18; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;12234  
 14;-3399.5; 02-JUL-2004 18:36:26; Bright; 47.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 94; 0;12234  
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 19;-2595.3; 02-JUL-2004 18:49:51; Bright; 40.5; 49; 1Alp UMi ; 1.99; 6300;occ; 81; 0;12234  
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 23;-1870.2; 02-JUL-2004 19:01:56; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;12234  
 24;-1773.6; 02-JUL-2004 19:03:32; Bright; 52.5; 73; 57Gam1And ; 2.26; 13100;occ; 105; 0;12234  
 25;-1617.0; 02-JUL-2004 19:06:09; Dark ; 81.0; 53; 43Bet And ; 2.05; 3300;occ; 162; 0;12234  
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 27;-1346.6; 02-JUL-2004 19:10:39; Dark ; 70.0; 50; 13Alp Ari ; 2.01; 4250;occ; 140; 0;12234  
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 30; -506.1; 02-JUL-2004 19:24:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12234  
 31; -319.7; 02-JUL-2004 19:27:46; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;12234  
 32; -117.1; 02-JUL-2004 19:31:09; Dark ; 85.0; 52; 16Bet Cet ; 2.04; 4500;occ; 170; 0;12234  
 33; 47.0; 02-JUL-2004 19:33:53; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;12235  
 34; 318.6; 02-JUL-2004 19:38:25; Dark ; 41.5; 135; Bet Hyi ; 2.82; 5800;occ; 83; 0;12235  
 35; 514.0; 02-JUL-2004 19:41:40; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;12235  
 36; 629.7; 02-JUL-2004 19:43:36; Dark ; 84.0; 18; 24Alp PsA ; 1.17; 9700;occ; 168; 0;12235  
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 6;-1775.9; 03-JUL-2004 06:47:42; Bright; 54.5; 73; 57Gam1And ; 2.26; 13100;occ; 109; 0;12241  
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 12; -499.5; 03-JUL-2004 07:08:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12241  
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 18; 641.0; 03-JUL-2004 07:27:59; Dark ; 90.5; 18; 24Alp PsA ; 1.17; 9700;occ; 181; 0;12242  
 19; 812.9; 03-JUL-2004 07:30:50; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;12242  
 20; 980.4; 03-JUL-2004 07:33:38; Dark ; 46.0; 141; Bet Ara ; 2.84; 4600;occ; 92; 0;12242  
 21; 1069.0; 03-JUL-2004 07:35:06; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;12242  
 22; 1177.6; 03-JUL-2004 07:36:55; Dark ; 40.5; 40; The Sco ; 1.86; 7100;occ; 81; 0;12242  
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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	
7;	-3585.9;	03-JUL-2004 07:58:08;	Bright;	37.0;	133;	40Zet Her	;	2.81;	6000;occ;	74;	0;	12242	
8;	-3402.2;	03-JUL-2004 08:01:11;	Bright;	45.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	90;	0;	12242	
9;	-3233.2;	03-JUL-2004 08:04:00;	Bright;	37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	0;	12242	
10;	-3082.9;	03-JUL-2004 08:06:31;	Bright;	37.5;	119;	14Eta Dra	;	2.73;	4700;occ;	75;	0;	12242	
11;	-2840.2;	03-JUL-2004 08:10:33;	Bright;	38.0;	60;	7Bet UMi	;	2.08;	3950;occ;	76;	0;	12242	
12;	-2718.5;	03-JUL-2004 08:12:35;	Bright;	46.0;	89;	5Alp Cep	;	2.45;	8000;occ;	92;	0;	12242	
13;	-2592.2;	03-JUL-2004 08:14:41;	Bright;	37.5;	49;	1Alp UMi	;	1.99;	6300;occ;	75;	0;	12242	
14;	-2272.0;	03-JUL-2004 08:20:01;	Bright;	50.5;	74;	11Bet Cas	;	2.27;	6600;occ;	101;	0;	12242	
15;	-2171.2;	03-JUL-2004 08:21:42;	Bright;	51.5;	110;	37Del Cas	;	2.68;	8900;occ;	103;	0;	12242	
16;	-1976.9;	03-JUL-2004 08:24:57;	Bright;	38.5;	160;	23Gam Per	;	2.93;	4700;occ;	77;	0;	12242	
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19;	-1617.5;	03-JUL-2004 08:30:56;	Dark	;	83.0;	53;	43Bet And	;	2.05;	3300;occ;	166;	0;	12242
20;	-1450.9;	03-JUL-2004 08:33:43;	Dark	;	41.5;	146;	25Eta Tau	;	2.87;	15200;occ;	83;	0;	12242
21;	-1344.4;	03-JUL-2004 08:35:29;	Dark	;	66.0;	50;	13Alp Ari	;	2.01;	4250;occ;	132;	0;	12242
22;	-1042.6;	03-JUL-2004 08:40:31;	Dark	;	54.0;	94;	92Alp Cet	;	2.53;	3100;occ;	108;	0;	12242
23;	-825.2;	03-JUL-2004 08:44:08;	Dark	;	42.5;	165;	34Gam Eri	;	2.95;	3200;occ;	85;	0;	12242
24;	-498.5;	03-JUL-2004 08:49:35;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12242
25;	-315.1;	03-JUL-2004 08:52:38;	Dark	;	41.0;	157;	The1Eri	;	2.91;	9300;occ;	82;	0;	12242
26;	-101.9;	03-JUL-2004 08:56:12;	Dark	;	80.5;	52;	16Bet Cet	;	2.04;	4500;occ;	161;	0;	12242
27;	54.2;	03-JUL-2004 08:58:48;	Dark	;	42.0;	9;	Alp Eri	;	0.45;	24000;occ;	84;	0;	12243
28;	323.2;	03-JUL-2004 09:03:17;	Dark	;	39.0;	135;	Bet Hyi	;	2.82;	5800;occ;	78;	0;	12243
29;	521.8;	03-JUL-2004 09:06:35;	Dark	;	56.5;	63;	Bet Gru	;	2.15;	2800;occ;	113;	0;	12243
30;	642.7;	03-JUL-2004 09:08:36;	Dark	;	81.5;	18;	24Alp PsA	;	1.17;	9700;occ;	163;	0;	12243
31;	814.2;	03-JUL-2004 09:11:28;	Dark	;	60.0;	172;	Gam Gru	;	3.00;	13100;occ;	120;	0;	12243
32;	980.6;	03-JUL-2004 09:14:14;	Dark	;	42.5;	141;	Bet Ara	;	2.84;	4600;occ;	85;	0;	12243
33;	1069.0;	03-JUL-2004 09:15:42;	Dark	;	41.5;	147;	Alp Ara	;	2.88;	26000;occ;	83;	0;	12243
34;	1177.6;	03-JUL-2004 09:17:31;	Dark	;	44.0;	40;	The Sco	;	1.86;	7100;occ;	88;	0;	12243
35;	1277.5;	03-JUL-2004 09:19:11;	Dark	;	42.5;	25;	35Lam Sco	;	1.62;	28000;occ;	85;	0;	12243
36;	1363.4;	03-JUL-2004 09:20:37;	Dark	;	51.5;	116;	19Del Sgr	;	2.70;	4100;occ;	103;	0;	12243
37;	1486.7;	03-JUL-2004 09:22:40;	Bright;	44.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	88;	0;	12243	
38;	1647.5;	03-JUL-2004 09:25:21;	Bright;	37.5;	86;	35Eta Oph	;	2.43;	10200;occ;	75;	0;	12243	
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2;	-4150.0;	03-JUL-2004 09:29:19;	Bright;	38.0;	120;	1Del Oph	;	2.73;	3200;occ;	76;	0;	12243	
3;	-4055.2;	03-JUL-2004 09:30:54;	Bright;	37.0;	126;	60Bet Oph	;	2.77;	4250;occ;	74;	0;	12243	
4;	-3916.5;	03-JUL-2004 09:33:13;	Bright;	37.0;	59;	55Alp Oph	;	2.08;	8900;occ;	74;	0;	12243	
5;	-3747.6;	03-JUL-2004 09:36:02;	Bright;	37.0;	127;	27Bet Her	;	2.78;	4700;occ;	74;	0;	12243	
6;	-3585.9;	03-JUL-2004 09:38:43;	Bright;	37.5;	133;	40Zet Her	;	2.81;	6000;occ;	75;	0;	12243	
7;	-3402.8;	03-JUL-2004 09:41:47;	Bright;	47.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	95;	0;	12243	
8;	-3233.6;	03-JUL-2004 09:44:36;	Bright;	38.0;	130;	23Bet Dra	;	2.80;	5800;occ;	76;	0;	12243	
9;	-3083.0;	03-JUL-2004 09:47:06;	Bright;	38.0;	119;	14Eta Dra	;	2.73;	4700;occ;	76;	0;	12243	
10;	-2840.3;	03-JUL-2004 09:51:09;	Bright;	37.5;	60;	7Bet UMi	;	2.08;	3950;occ;	75;	0;	12243	
11;	-2719.5;	03-JUL-2004 09:53:10;	Bright;	47.5;	89;	5Alp Cep	;	2.45;	8000;occ;	95;	0;	12243	
12;	-2592.2;	03-JUL-2004 09:55:17;	Bright;	38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	12243	
13;	-2272.5;	03-JUL-2004 10:00:37;	Bright;	50.0;	74;	11Bet Cas	;	2.27;	6600;occ;	100;	0;	12243	
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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	
18;	-1617.4;	03-JUL-2004 10:11:32;	Dark	;	78.0;	53;	43Bet And	;	2.05;	3300;occ;	156;	0;	12243
19;	-1450.8;	03-JUL-2004 10:14:19;	Dark	;	42.0;	146;	25Eta Tau	;	2.87;	15200;occ;	84;	0;	12243
20;	-1343.5;	03-JUL-2004 10:16:06;	Dark	;	61.5;	50;	13Alp Ari	;	2.01;	4250;occ;	123;	0;	12243
21;	-1042.1;	03-JUL-2004 10:21:07;	Dark	;	52.5;	94;	92Alp Cet	;	2.53;	3100;occ;	105;	0;	12243
22;	-825.2;	03-JUL-2004 10:24:44;	Dark	;	44.0;	165;	34Gam Eri	;	2.95;	3200;occ;	88;	0;	12243
23;	-497.5;	03-JUL-2004 10:30:12;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12243
24;	-315.0;	03-JUL-2004 10:33:14;	Dark	;	41.0;	157;	The1Eri	;	2.91;	9300;occ;	82;	0;	12243
25;	-99.1;	03-JUL-2004 10:36:50;	Dark	;	90.0;	52;	16Bet Cet	;	2.04;	4500;occ;	180;	0;	12243
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24;	-38.3;	05-JUL-2004	11:15:13;	Dark	;	96.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	192;	0;	12272
25;	167.7;	05-JUL-2004	11:18:39;	Dark	;	62.5;	84;	Alp	Phe	;	2.40;	4500;	occ;	125;	0;	12273
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29;	843.4;	05-JUL-2004	11:29:55;	Dark	;	58.5;	172;	Gam	Gru	;	3.00;	13100;	occ;	117;	0;	12273
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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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13;	-513.4;	22-JUL-2004	03:50:27;	Dark	;	41.5;	108;	Alp Col	;	2.65;	15200;occ;	83;	0;	12511
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3;-3970.5; 26-JUL-2004 12:30:34; Bright; 40.5; 11; 53Alp Aql ; 0.76; 8000;occ; 81; 0;12574
4;-3871.3; 26-JUL-2004 12:32:13; Bright; 40.0; 59; 55Alp Oph ; 2.08; 8900;occ; 80; 0;12574
5;-3723.6; 26-JUL-2004 12:34:41; Bright; 78.5; 61; 8Eps Peg ; 2.10; 3900;occ; 157; 0;12574
6;-3469.8; 26-JUL-2004 12:38:54; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;12574
7;-3323.3; 26-JUL-2004 12:41:21; Bright; 39.5; 144; 18Del Cyg ; 2.86; 11000;occ; 79; 0;12574
8;-3223.7; 26-JUL-2004 12:43:00; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;12574
9;-3023.9; 26-JUL-2004 12:46:20; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;12574
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14;-2390.4; 26-JUL-2004 12:56:54; Bright; 49.0; 76; 27Gam Cas ; 2.30; 30000;occ; 98; 0;12574
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17;-1844.8; 26-JUL-2004 13:05:59; Bright; 74.0; 73; 57Gam1And ; 2.26; 13100;occ; 148; 0;12574
18;-1665.3; 26-JUL-2004 13:08:59; Dark ; 168.0; 53; 43Bet And ; 2.05; 3300;occ; 336; 0;12574

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23; -894.6; 26-JUL-2004 13:21:50; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;12574
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27; -502.3; 26-JUL-2004 13:28:22; Dark ; 41.5; 108; Alp Col ; 2.65; 15200;occ; 83; 0;12574
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31; 405.1; 26-JUL-2004 13:43:29; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;12575
32; 509.9; 26-JUL-2004 13:45:14; Dark ; 63.5; 84; Alp Phe ; 2.40; 4500;occ; 127; 0;12575
33; 683.2; 26-JUL-2004 13:48:07; Dark ; 45.0; 148; Alp Tuc ; 2.88; 4100;occ; 90; 0;12575
34; 876.3; 26-JUL-2004 13:51:20; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;12575
35; 1072.7; 26-JUL-2004 13:54:37; Dark ; 78.0; 18; 24Alp PsA ; 1.17; 9700;occ; 156; 0;12575
36; 1348.0; 26-JUL-2004 13:59:12; Dark ; 46.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 93; 0;12575
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32; 404.5; 26-JUL-2004 15:24:05; Dark ; 40.5; 135; Bet Hyi ; 2.82; 5800;occ; 81; 0;12576
33; 510.0; 26-JUL-2004 15:25:50; Dark ; 59.5; 84; Alp Phe ; 2.40; 4500;occ; 119; 0;12576
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7; 2063.6; 26-JUL-2004 22:34:08; Bright; 42.0; 11; 53Alp Aql ; 0.76; 8000;occ; 84; 0;12580
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9; 2305.0; 26-JUL-2004 22:38:09; Bright; 70.5; 61; 8Eps Peg ; 2.10; 3900;occ; 141; 0;12580
10; 2565.4; 26-JUL-2004 22:42:29; Bright; 43.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 86; 0;12580
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22; 4367.8; 26-JUL-2004 23:12:32; Dark ; 188.5; 53; 43Bet And ; 2.05; 3300;occ; 377; 0;12580
23; 4667.6; 26-JUL-2004 23:17:32; Dark ; 56.0; 146; 25Eta Tau ; 2.87; 15200;occ; 112; 0;12580
24; 4762.2; 26-JUL-2004 23:19:06; Dark ; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;12580
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27; 5142.4; 26-JUL-2004 23:25:26; Dark ; 48.0; 7; 19Bet Ori ; 0.10; 14000;occ; 96; 0;12580
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27; 3532.2; 27-JUL-2004 00:39:12; Bright; 51.5; 74; 11Bet Cas ; 2.27; 6600;occ; 103; 0;12581
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30; 4093.8; 27-JUL-2004 00:48:34; Bright; 47.5; 35; 33Alp Per ; 1.79; 6250;occ; 95; 0;12581
31; 4188.5; 27-JUL-2004 00:50:08; Bright; 75.0; 73; 57Gam1And ; 2.26; 13100;occ; 150; 0;12581
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33; 4667.4; 27-JUL-2004 00:58:07; Dark ; 55.5; 146; 25Eta Tau ; 2.87; 15200;occ; 111; 0;12581
34; 4763.3; 27-JUL-2004 00:59:43; Dark ; 54.5; 13; 87Alp Tau ; 0.87; 3800;occ; 109; 0;12581
35; 4886.4; 27-JUL-2004 01:01:46; Dark ; 43.0; 27; 24Gam Ori ; 1.64; 26000;occ; 86; 0;12581
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37; 5143.4; 27-JUL-2004 01:06:03; Dark ; 50.5; 7; 19Bet Ori ; 0.10; 14000;occ; 101; 0;12581
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