

GOMOS Daily Report 02-AUG-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	04AUG2004 05:01:22
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (02AUG2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (03AUG2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	40
Nb of prods with errors	0

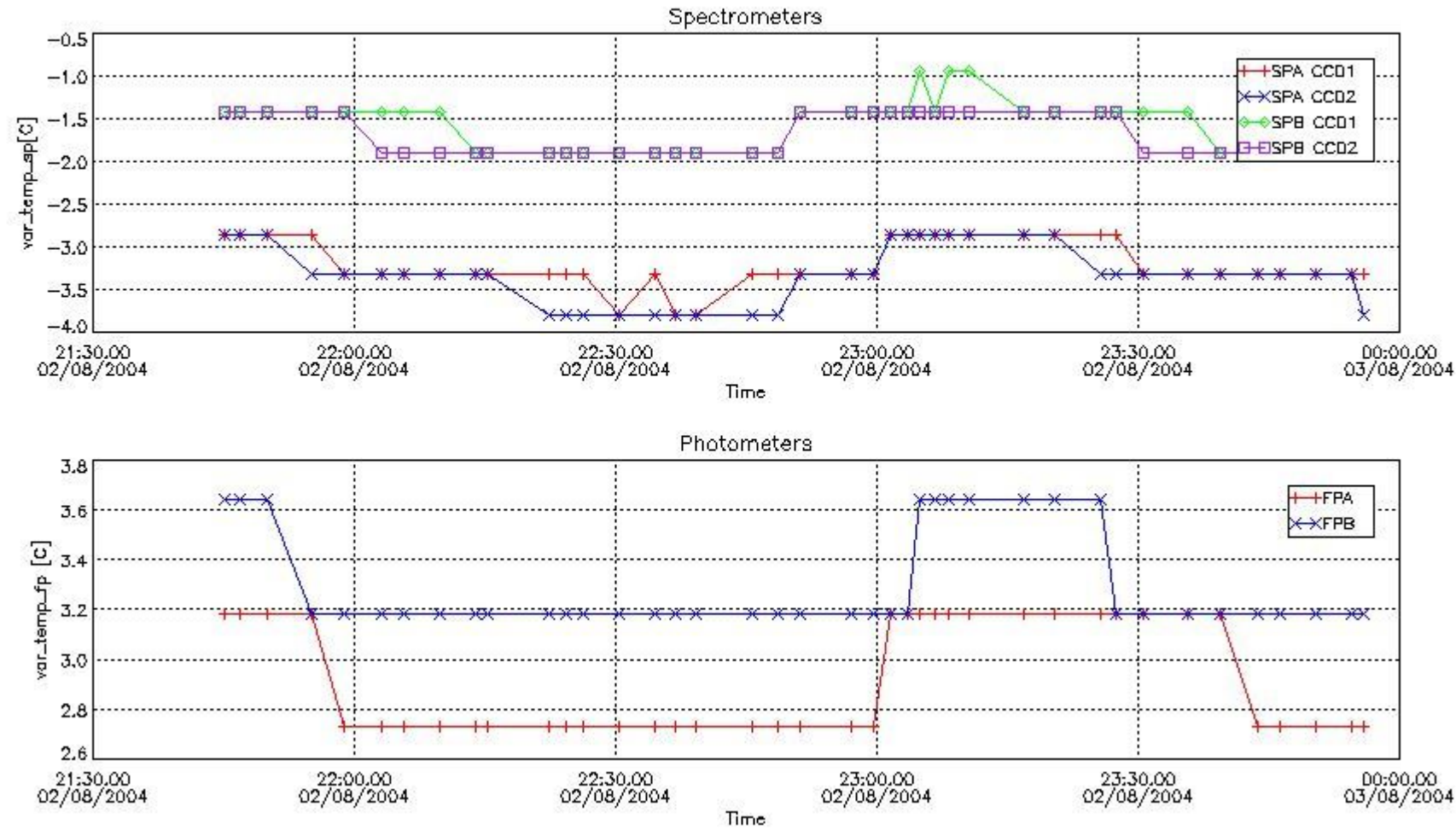
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040802_214503_000000462029_00101_12680_0000.N1	02-AUG-2004 21:45:03	Dark	46.000	9	Alp Eri	0.45300	24000.	92	12680	No
GOM_TRA_1PNPDE20040802_214647_000000392029_00101_12680_0001.N1	02-AUG-2004 21:46:47	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	12680	No
GOM_TRA_1PNPDE20040802_214959_000000672029_00101_12680_0002.N1	02-AUG-2004 21:49:59	Dark	67.000	84	Alp Phe	2.3970	4500.0	134	12680	No
GOM_TRA_1PNPDE20040802_215509_000000462029_00101_12680_0003.N1	02-AUG-2004 21:55:09	Bright	45.500	31	Alp Gru	1.7340	15200.	91	12680	No
GOM_TRA_1PNPDE20040802_215847_000000692029_00101_12680_0004.N1	02-AUG-2004 21:58:47	Bright	68.500	18	24Alp PsA	1.1660	9700.0	137	12680	No
GOM_TRA_1PNPDE20040802_220313_000000482029_00101_12680_0005.N1	02-AUG-2004 22:03:13	Bright	48.000	103	38Zet Sgr	2.6000	9700.0	96	12680	No
GOM_TRA_1PNPDE20040802_220546_000000532029_00101_12680_0006.N1	02-AUG-2004 22:05:46	Bright	52.500	142	49Del Cap	2.8500	8900.0	105	12680	No
GOM_TRA_1PNPDE20040802_220952_000000542029_00101_12680_0007.N1	02-AUG-2004 22:09:52	Bright	53.500	154	22Bet Aqr	2.8990	5700.0	107	12680	No
GOM_TRA_1PNPDE20040802_221352_000000392029_00101_12680_0008.N1	02-AUG-2004 22:13:52	Bright	39.000	11	53Alp Aql	0.76500	8000.0	78	12680	No
GOM_TRA_1PNPDE20040802_221521_000000382029_00101_12680_0009.N1	02-AUG-2004 22:15:21	Bright	38.000	168	17Zet Aql	2.9860	11000.	76	12680	No
GOM_TRA_1PNPDE20040802_222226_000000372029_00101_12680_0010.N1	02-AUG-2004 22:22:26	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	12680	No
GOM_TRA_1PNPDE20040802_222423_000000372029_00101_12680_0011.N1	02-AUG-2004 22:24:23	Bright	37.000	144	18Del Cyg	2.8600	11000.	74	12680	No
GOM_TRA_1PNPDE20040802_222617_000000352029_00101_12680_0012.N1	02-AUG-2004 22:26:17	Bright	35.000	69	33Gam Dra	2.2310	3800.0	70	12680	No
GOM_TRA_1PNPDE20040802_223022_000000392029_00101_12680_0013.N1	02-AUG-2004 22:30:22	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	12680	No
GOM_TRA_1PNPDE20040802_223429_000000342029_00101_12680_0014.N1	02-AUG-2004 22:34:29	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	12680	No
GOM_TRA_1PNPDE20040802_223655_000000382029_00101_12680_0015.N1	02-AUG-2004 22:36:55	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	12680	No
GOM_TRA_1PNPDE20040802_223910_000000502029_00101_12680_0016.N1	02-AUG-2004 22:39:10	Bright	50.000	76	27Gam Cas	2.3000	30000.	100	12680	No
GOM_TRA_1PNPDE20040802_224542_000000522029_00101_12680_0017.N1	02-AUG-2004 22:45:42	Bright	52.000	160	23Gam Per	2.9300	4700.0	104	12680	No
GOM_TRA_1PNPDE20040802_224832_000000862029_00101_12680_0018.N1	02-AUG-2004 22:48:32	Bright	85.500	73	57Gam1And	2.2600	13100.	171	12680	No
GOM_TRA_1PNPDE20040802_225107_000002552029_00101_12680_0019.N1	02-AUG-2004 22:51:07	Twilight	255.00	53	43Bet And	2.0480	3300.0	510	12680	No
GOM_TRA_1PNPDE20040802_225701_000000432029_00101_12680_0020.N1	02-AUG-2004 22:57:01	Twilight	43.000	176	23Zet Tau	3.0200	22000.	86	12680	No
GOM_TRA_1PNPDE20040802_225937_000000632029_00101_12680_0021.N1	02-AUG-2004 22:59:37	Twilight	62.500	13	87Alp Tau	0.86700	3800.0	125	12680	No
GOM_TRA_1PNPDE20040802_230135_000000452029_00101_12680_0022.N1	02-AUG-2004 23:01:35	Twilight	45.000	27	24Gam Ori	1.6360	26000.	90	12680	No
GOM_TRA_1PNPDE20040802_230330_000000462029_00101_12680_0023.N1	02-AUG-2004 23:03:30	Dark	46.000	30	46Eps Ori	1.6940	30000.	92	12680	No
GOM_TRA_1PNPDE20040802_230450_000000422029_00101_12680_0024.N1	02-AUG-2004 23:04:50	Dark	42.000	125	44Iot Ori	2.7700	30000.	84	12680	No
GOM_TRA_1PNPDE20040802_230642_000000432029_00101_12680_0025.N1	02-AUG-2004 23:06:42	Dark	42.500	1	9Alp CMa	-1.4400	11000.	85	12680	No
GOM_TRA_1PNPDE20040802_230811_000000432029_00101_12680_0000.N1	02-AUG-2004 23:08:11	Dark	42.500	101	11Alp Lep	2.5820	7000.0	85	12680	No
GOM_TRA_1PNPDE20040802_231036_000000392029_00101_12680_0001.N1	02-AUG-2004 23:10:36	Dark	39.000	177	1Zet CMa	3.0220	26000.	78	12680	No
GOM_TRA_1PNPDE20040802_231645_000000462029_00101_12680_0002.N1	02-AUG-2004 23:16:45	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	12680	No
GOM_TRA_1PNPDE20040802_232017_000000502029_00102_12681_0003.N1	02-AUG-2004 23:20:17	Dark	49.500	157	The1Eri	2.9060	9300.0	99	12681	No
GOM_TRA_1PNPDE20040802_232539_000000552029_00102_12681_0004.N1	02-AUG-2004 23:25:39	Dark	54.500	9	Alp Eri	0.45300	24000.	109	12681	No
GOM_TRA_1PNPDE20040802_232721_000000432029_00102_12681_0005.N1	02-AUG-2004 23:27:21	Dark	43.000	135	Bet Hyi	2.8200	5800.0	86	12681	No
GOM_TRA_1PNPDE20040802_233036_000000582029_00102_12681_0006.N1	02-AUG-2004 23:30:36	Dark	58.000	84	Alp Phe	2.3970	4500.0	116	12681	No
GOM_TRA_1PNPDE20040802_233543_000000502029_00102_12681_0007.N1	02-AUG-2004 23:35:43	Bright	50.000	31	Alp Gru	1.7340	15200.	100	12681	No
GOM_TRA_1PNPDE20040802_233924_000000682029_00102_12681_0008.N1	02-AUG-2004 23:39:24	Bright	67.500	18	24Alp PsA	1.1660	9700.0	135	12681	No
GOM_TRA_1PNPDE20040802_234346_000000492029_00102_12681_0009.N1	02-AUG-2004 23:43:46	Bright	48.500	103	38Zet Sgr	2.6000	9700.0	97	12681	No
GOM_TRA_1PNPDE20040802_234622_000000552029_00102_12681_0010.N1	02-AUG-2004 23:46:22	Bright	54.500	142	49Del Cap	2.8500	8900.0	109	12681	No
GOM_TRA_1PNPDE20040802_235028_000000522029_00102_12681_0011.N1	02-AUG-2004 23:50:28	Bright	51.500	154	22Bet Aqr	2.8990	5700.0	103	12681	No
GOM_TRA_1PNPDE20040802_235427_000000402029_00102_12681_0012.N1	02-AUG-2004 23:54:27	Bright	39.500	11	53Alp Aql	0.76500	8000.0	79	12681	No
GOM_TRA_1PNPDE20040802_235556_000000392029_00102_12681_0013.N1	02-AUG-2004 23:55:56	Bright	38.500	168	17Zet Aql	2.9860	11000.	77	12681	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).

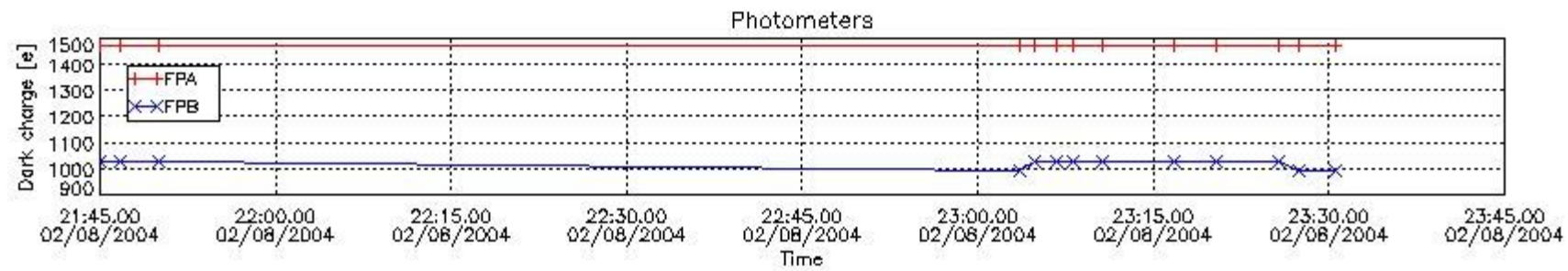
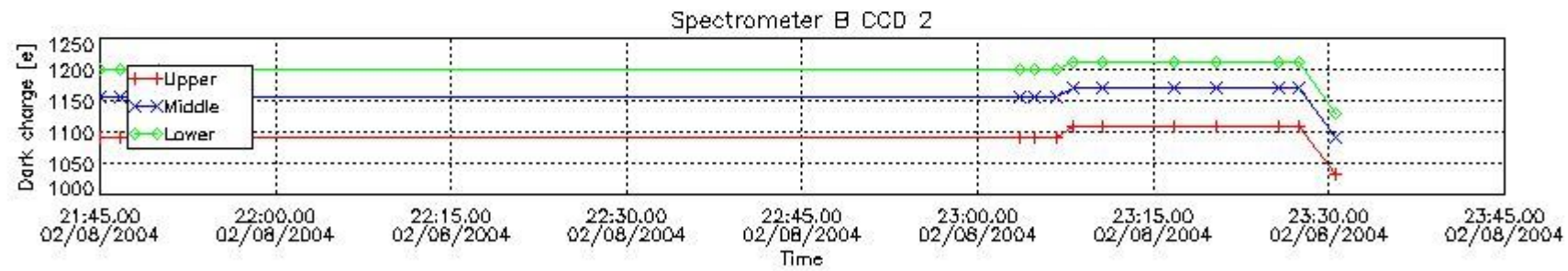
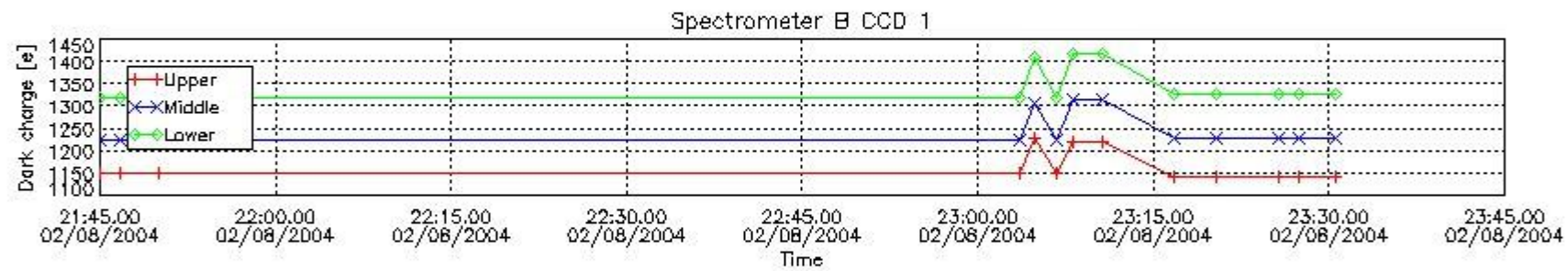
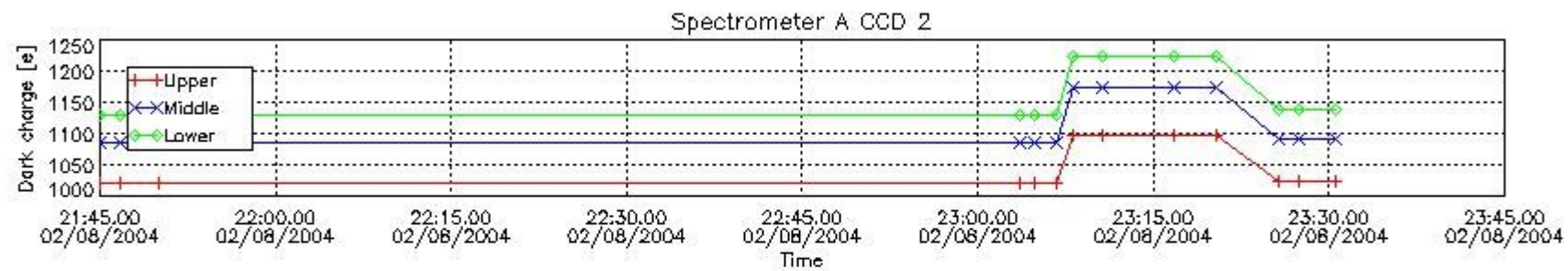
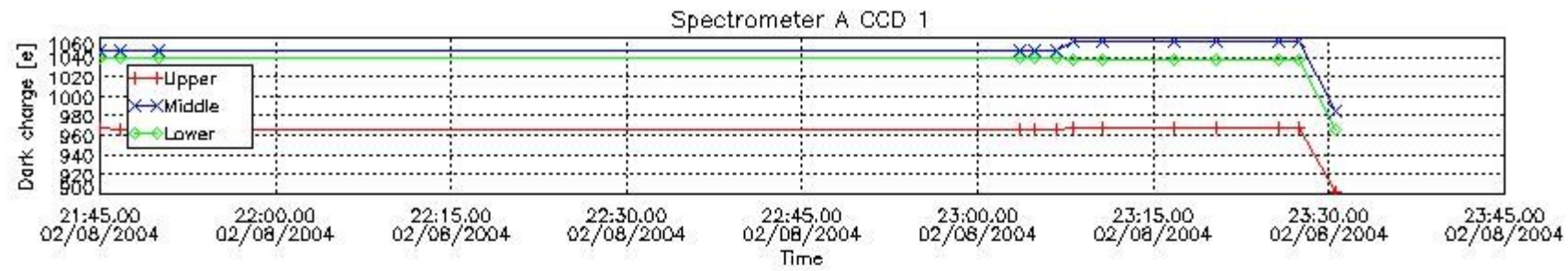
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20040802_214503_000000462029_00101_12680_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20040802_214647_000000392029_00101_12680_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_214959_000000672029_00101_12680_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_215509_000000462029_00101_12680_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_215847_000000692029_00101_12680_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_220313_000000482029_00101_12680_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_220546_000000532029_00101_12680_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_220952_000000542029_00101_12680_0007.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_221352_000000392029_00101_12680_0008.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_221521_000000382029_00101_12680_0009.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_222226_000000372029_00101_12680_0010.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_222423_000000372029_00101_12680_0011.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_222617_000000352029_00101_12680_0012.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_223022_000000392029_00101_12680_0013.N1	DC map used (0)

GOM_TRA_1PNPDE20040802_223429_000000342029_00101_12680_0014.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_223655_000000382029_00101_12680_0015.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_223910_000000502029_00101_12680_0016.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_224542_000000522029_00101_12680_0017.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_224832_000000862029_00101_12680_0018.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_225107_000002552029_00101_12680_0019.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_225701_000000432029_00101_12680_0020.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_225937_000000632029_00101_12680_0021.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_230135_000000452029_00101_12680_0022.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_230330_000000462029_00101_12680_0023.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_230450_000000422029_00101_12680_0024.N1	DC map used (0)
GOM_TRA_1PNPDE20040802_230642_000000432029_00101_12680_0025.N1	DC map used (0)

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



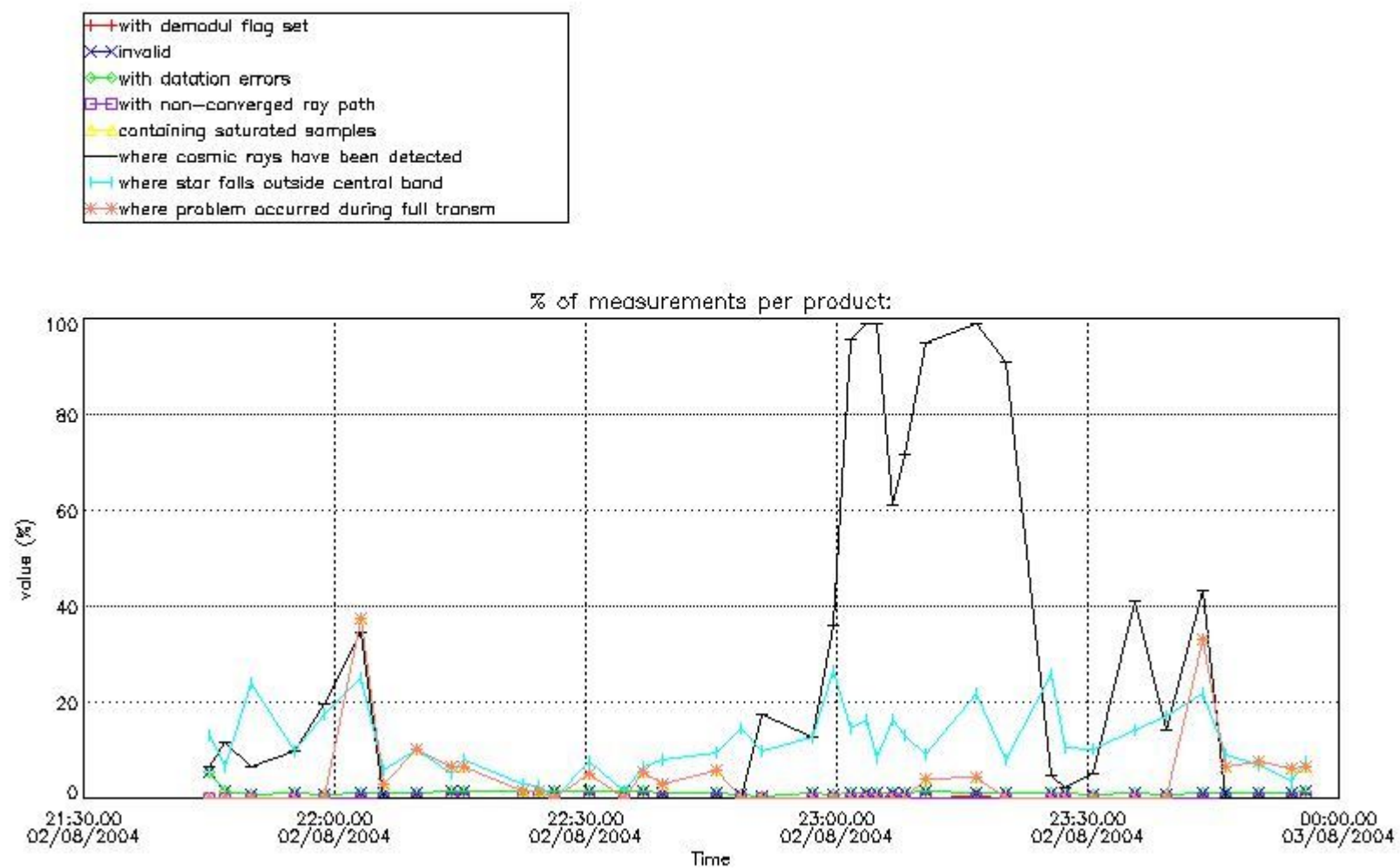
5. Demodulation flag and quality information monitoring

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.

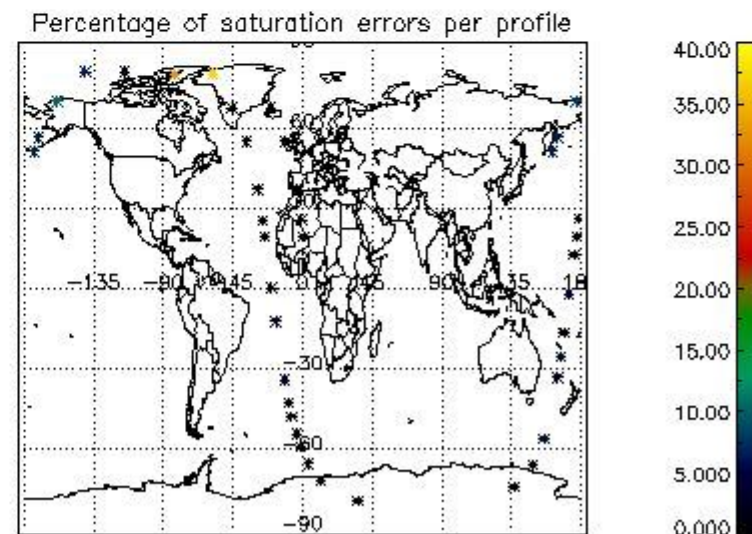
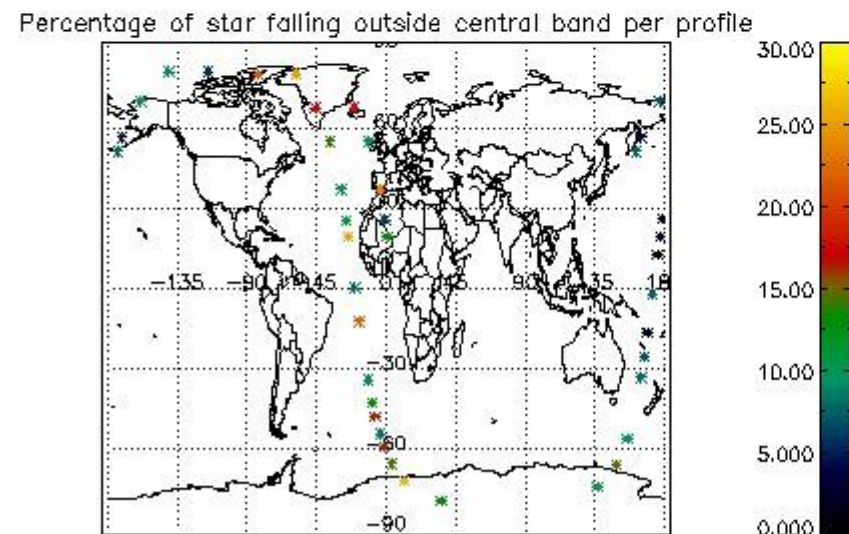
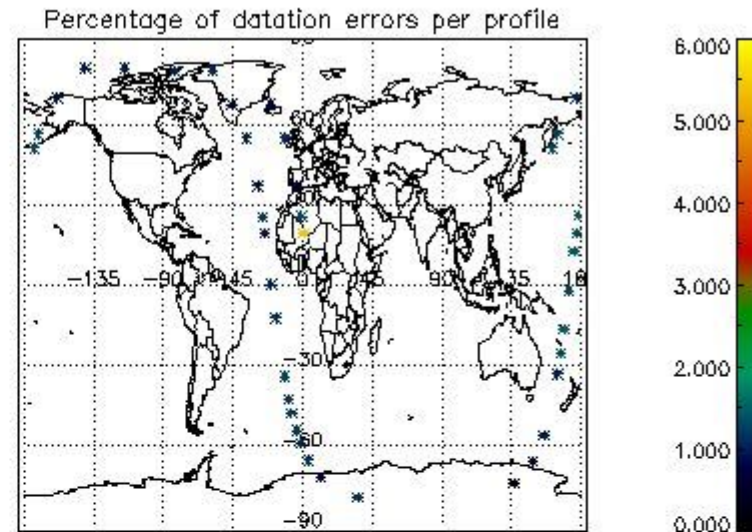
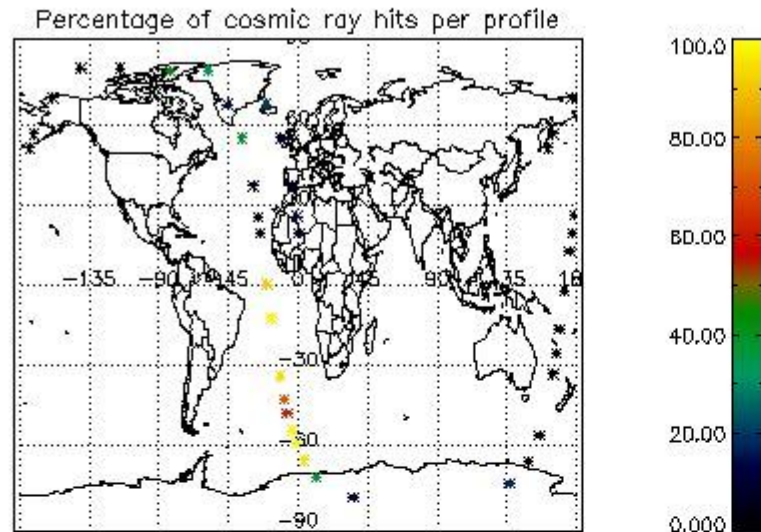
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	25.0000 %
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)



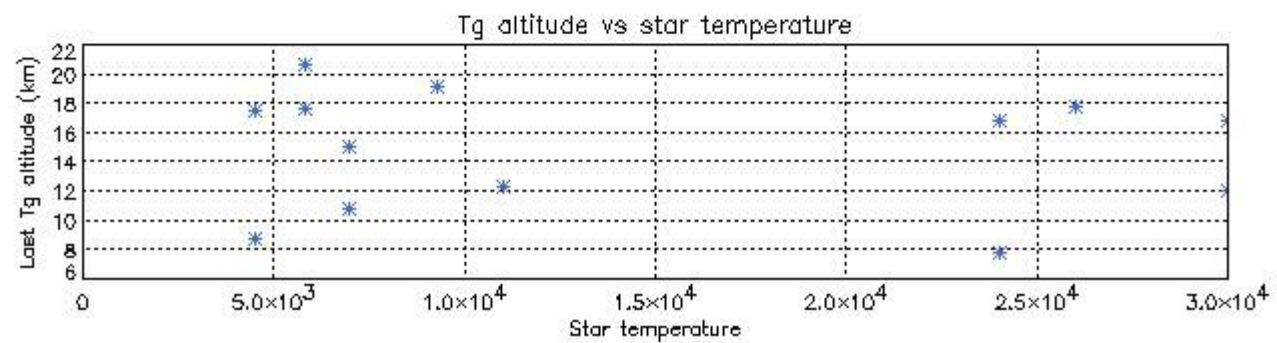
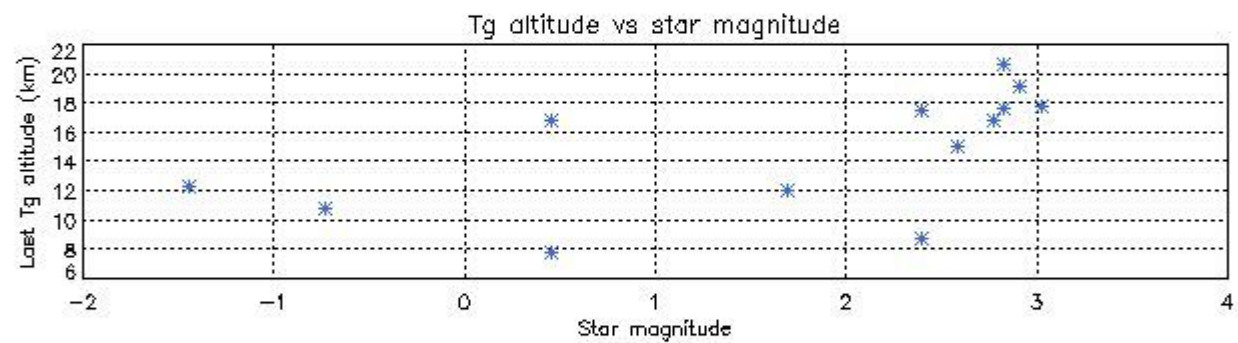
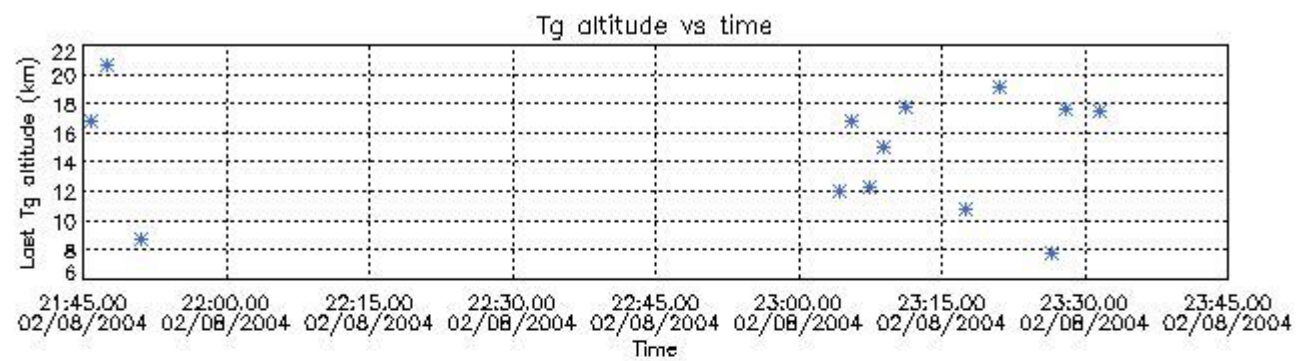
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.848	19.001	13.717
St. deviation:	4.0919	5.0601	4.6214
Maximum:	20.674	30.150	18.236
Minimum:	7.7690	8.7208	7.2985
Number of data:	13.000	23.000	4.0000

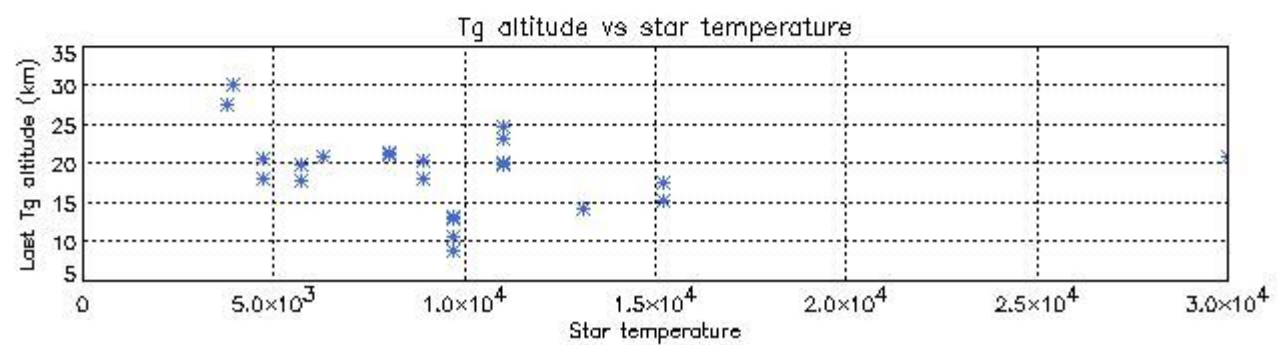
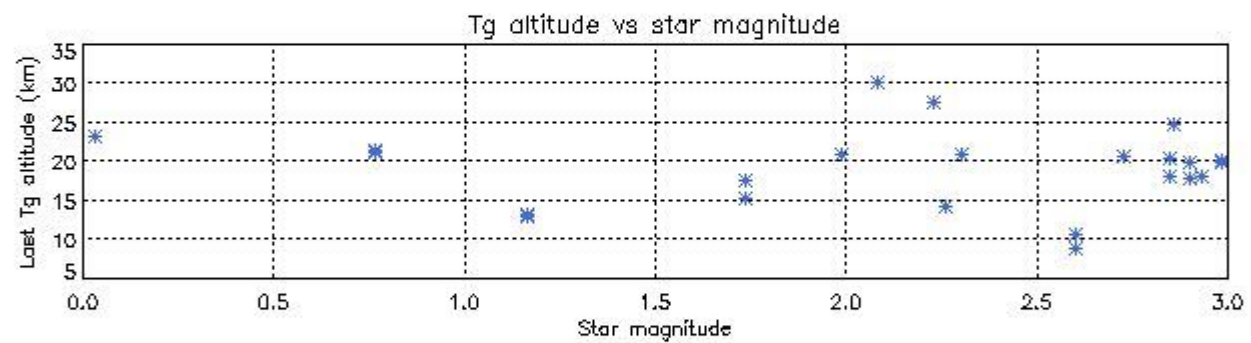
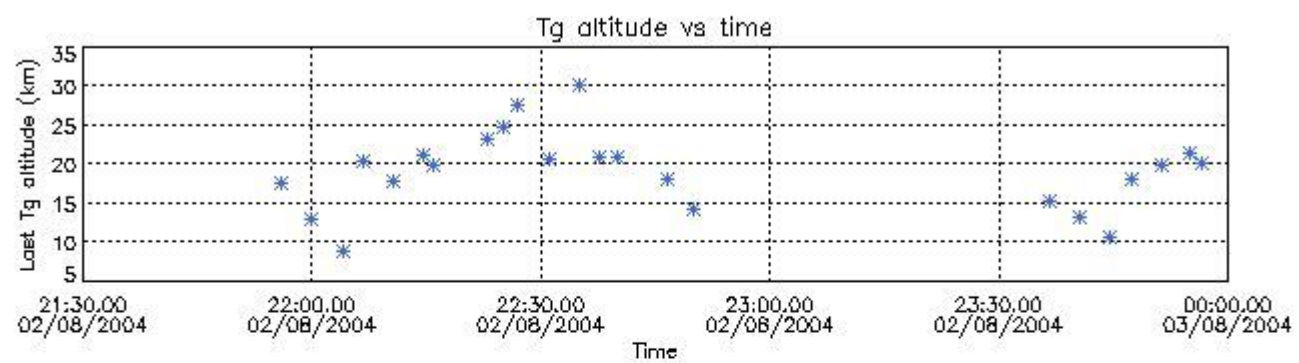
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



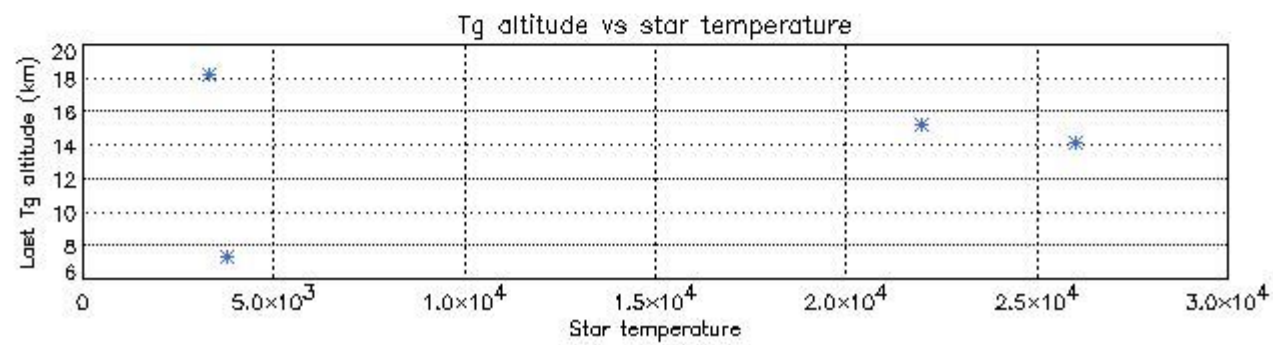
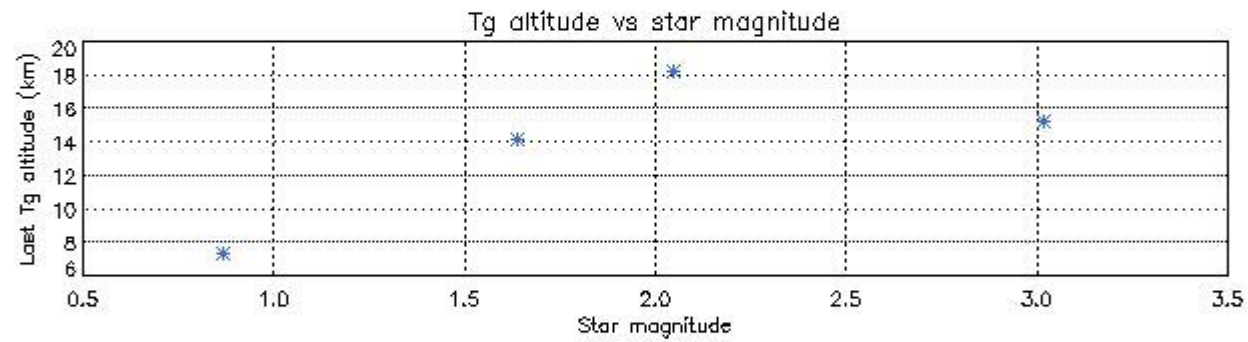
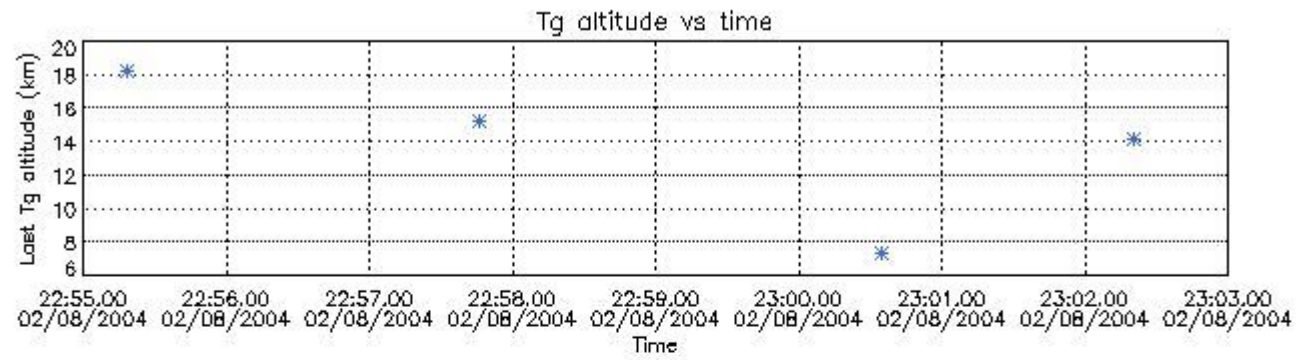
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

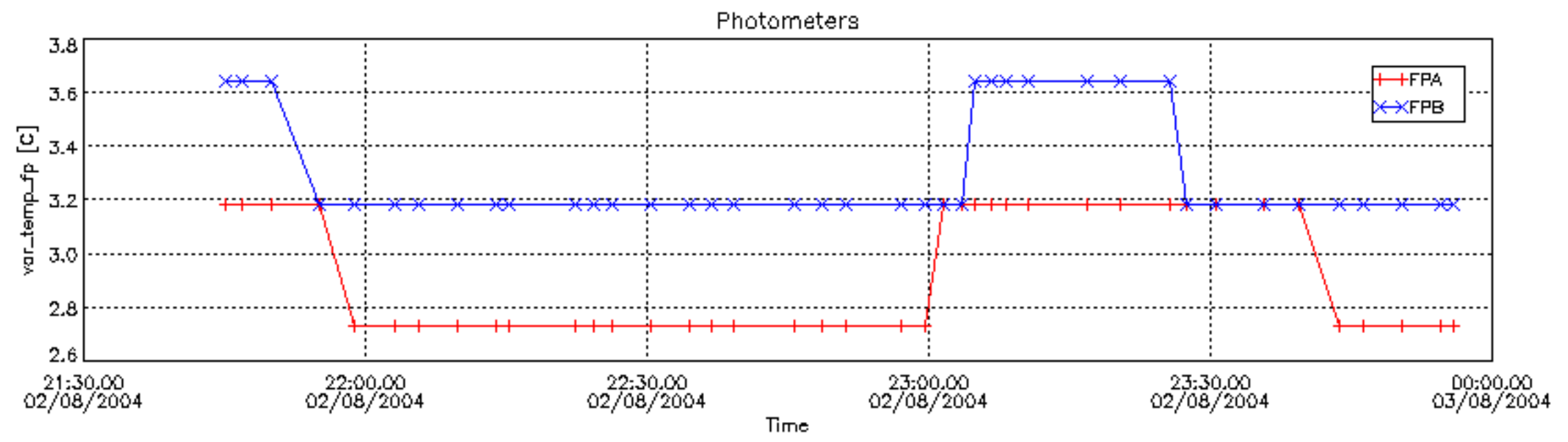
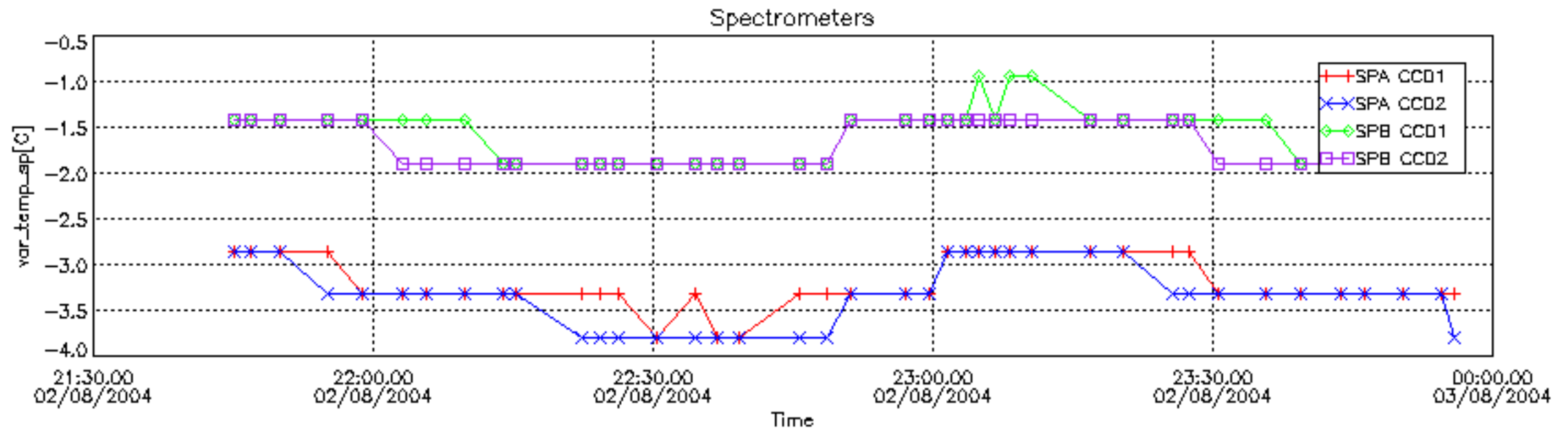
Tangent altitude at which the star is lost

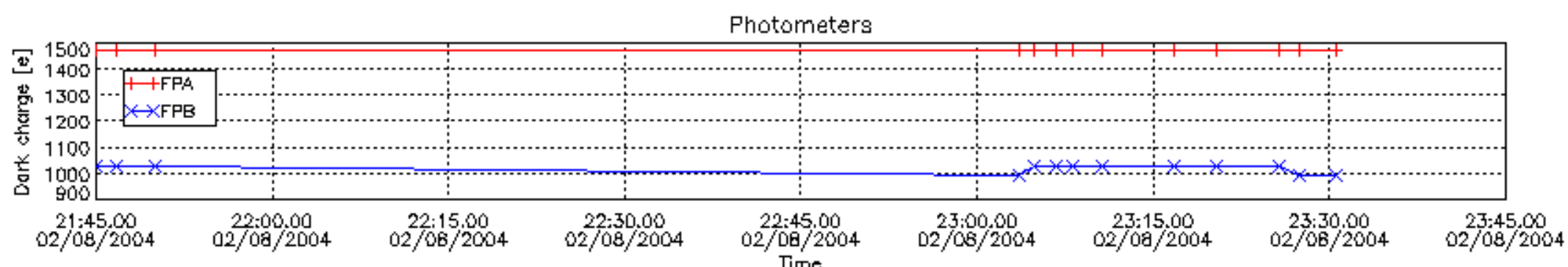
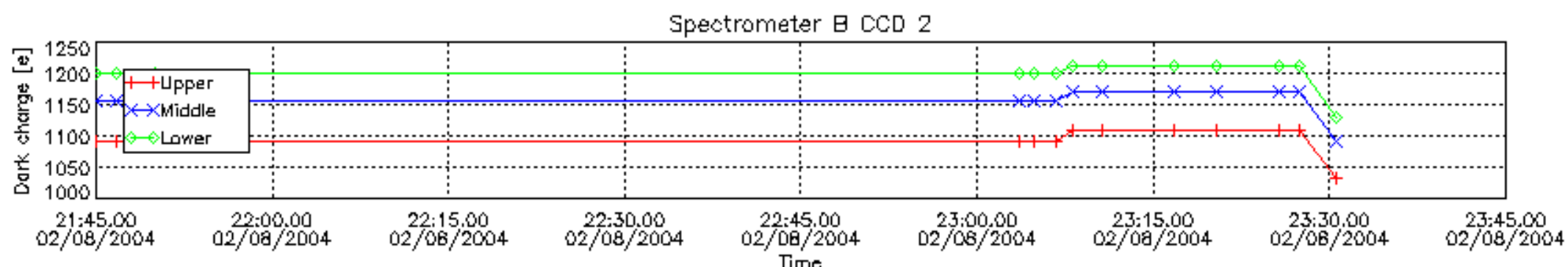
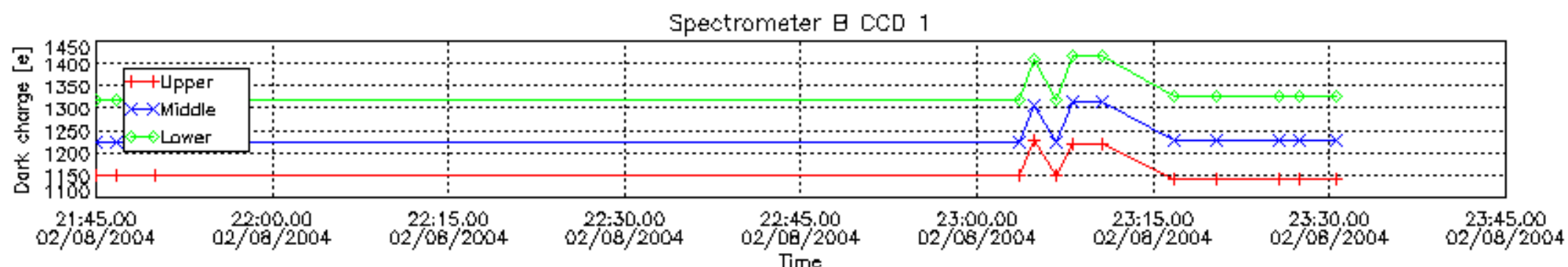
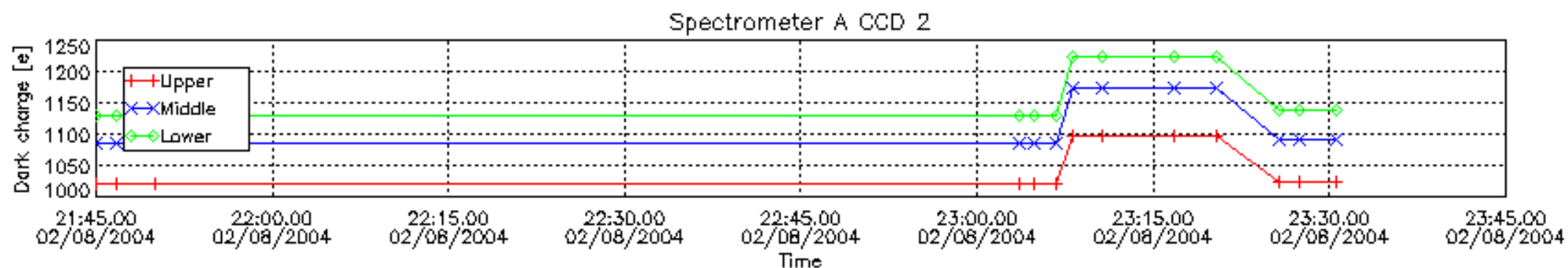
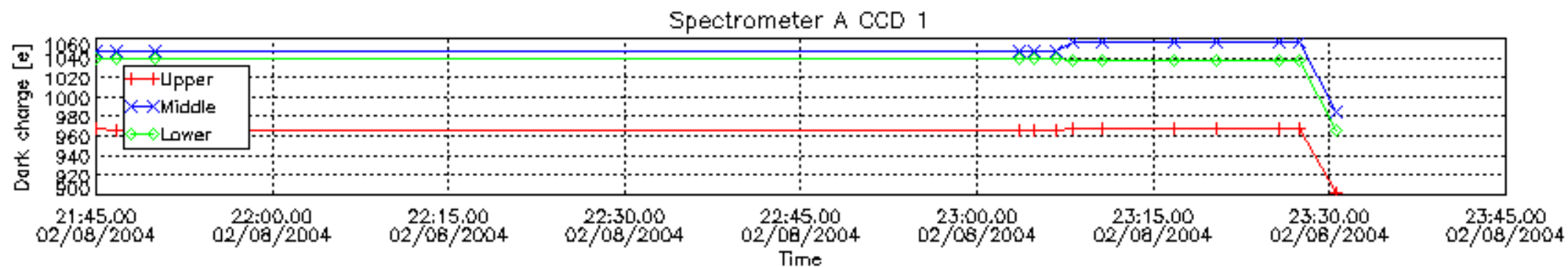


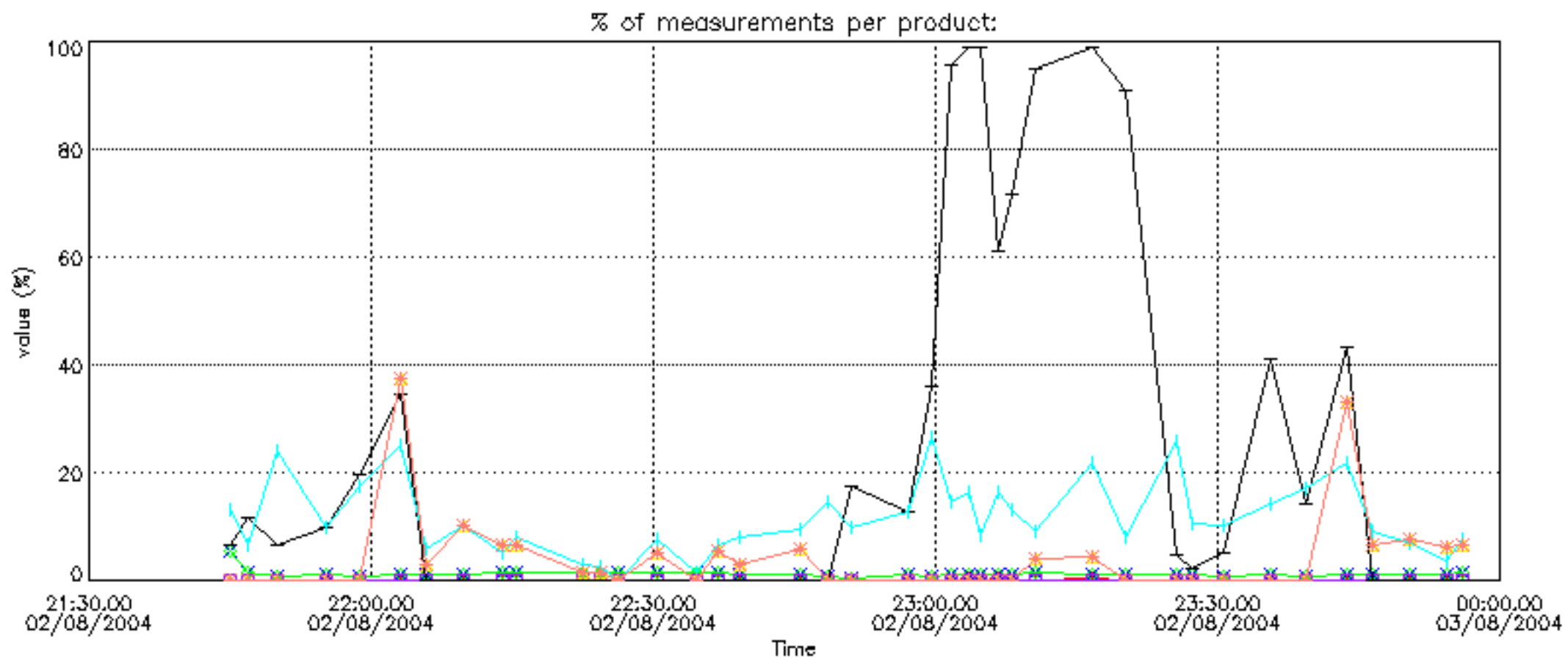
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

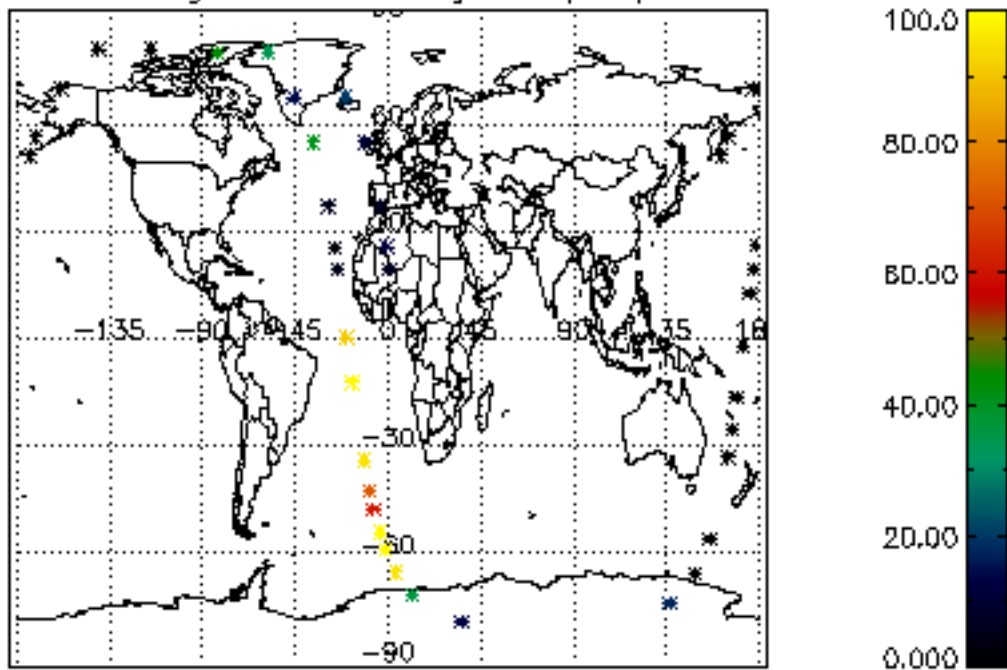
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.5	1447.0	1461.8	1447.6
St. deviation:	5.5340	6.6997	6.7666	7.6618
Maximum:	1503.0	1488.0	1513.0	1507.0
Minimum:	1453.0	1431.0	1407.0	1392.0
Number of data:	15850.	15850.	28350.	28350.



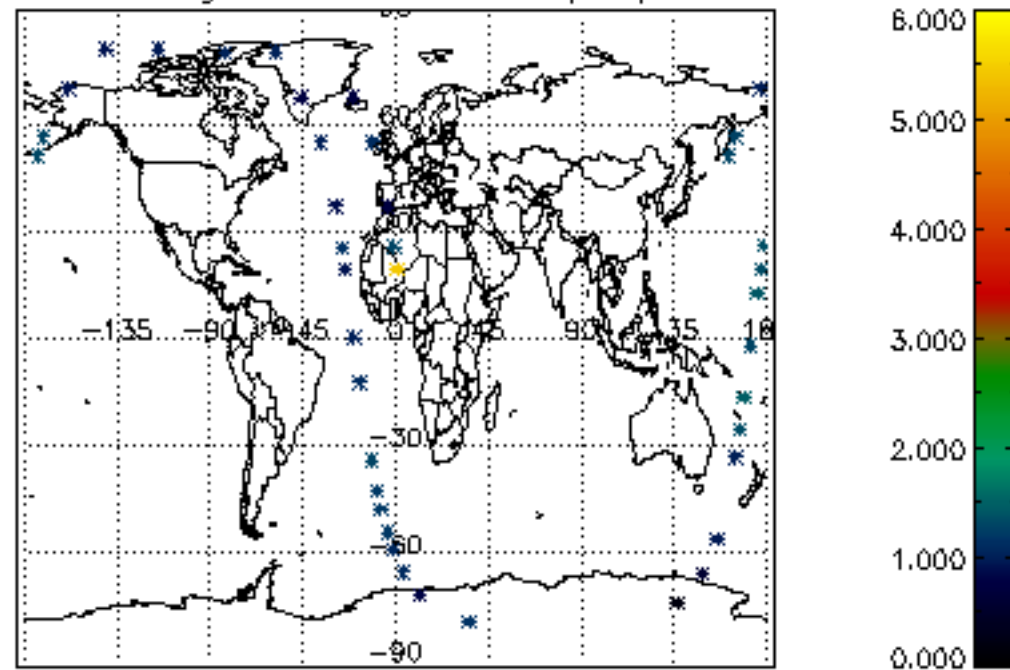




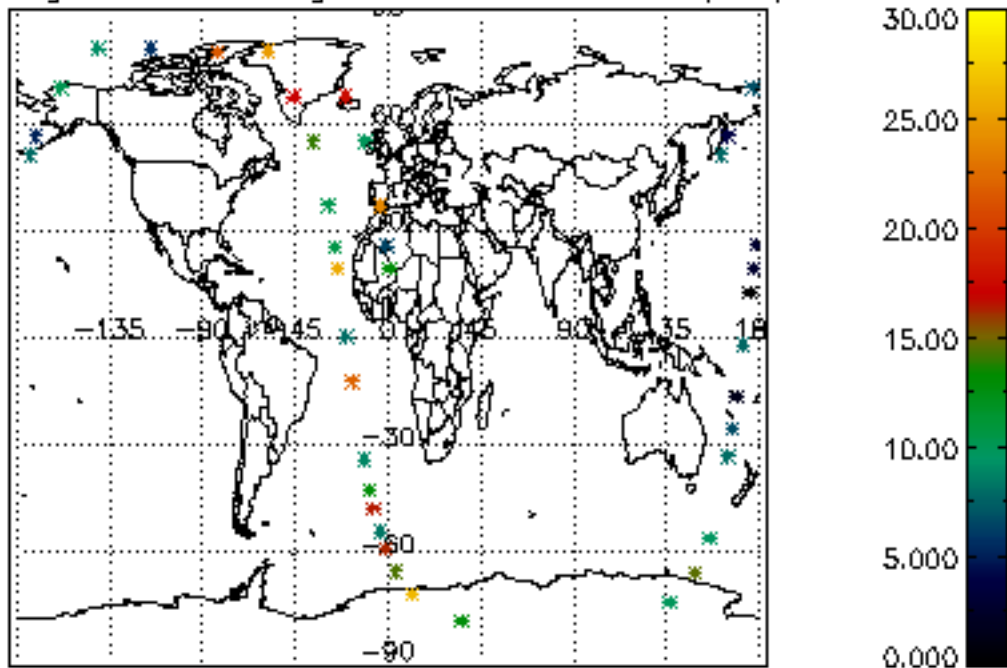
Percentage of cosmic ray hits per profile



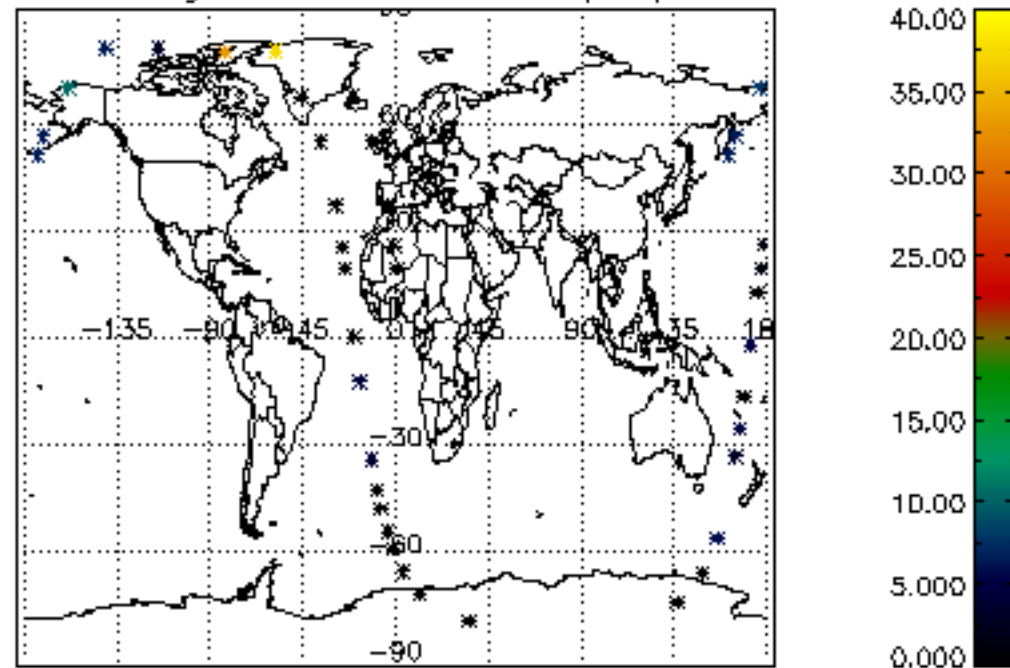
Percentage of datation errors per profile



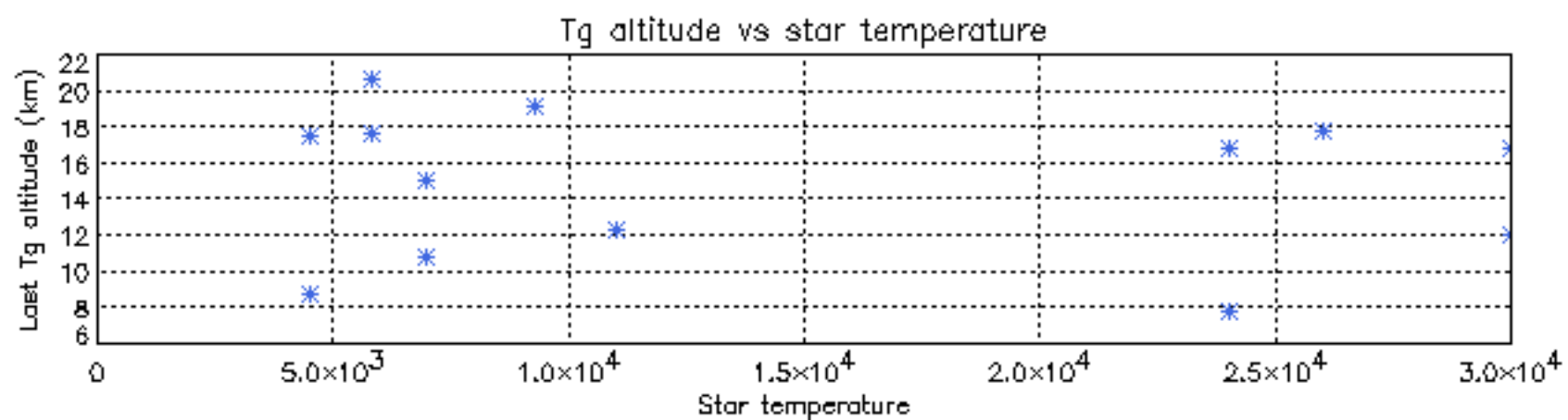
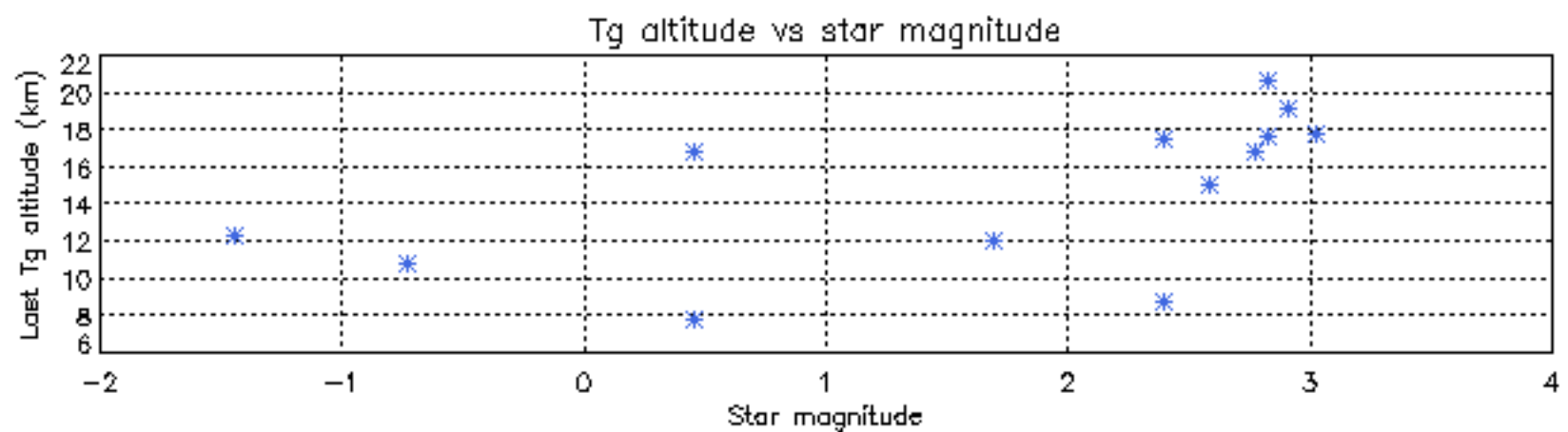
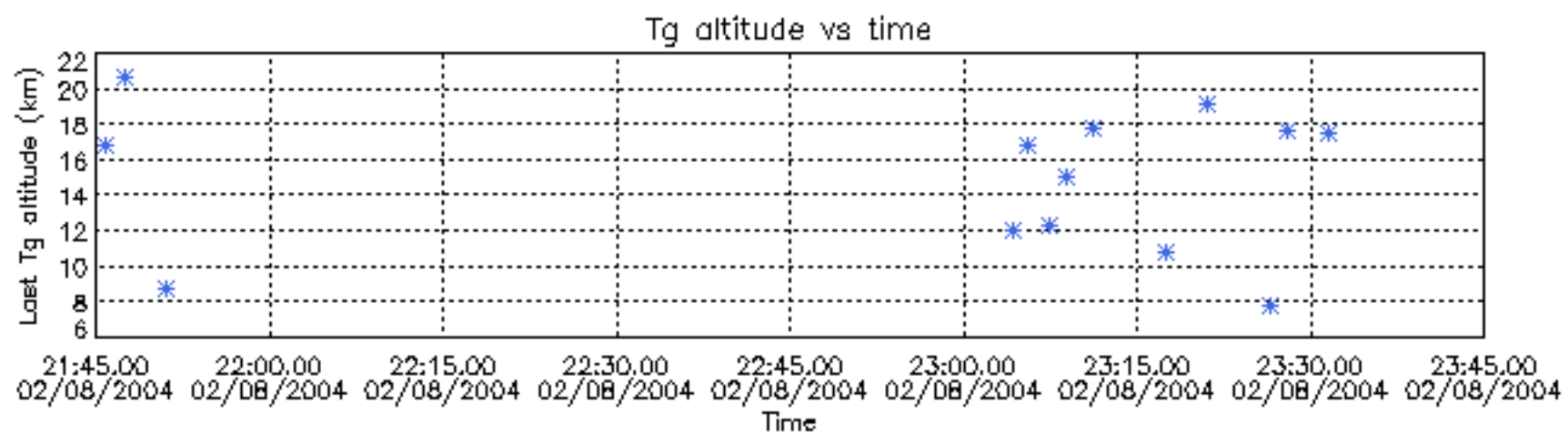
Percentage of star falling outside central band per profile



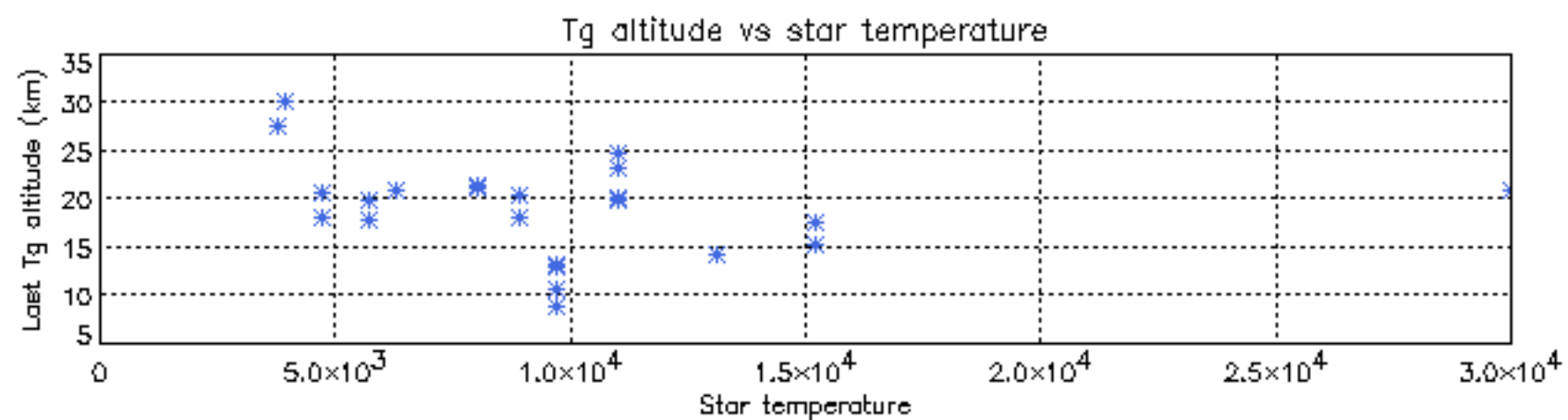
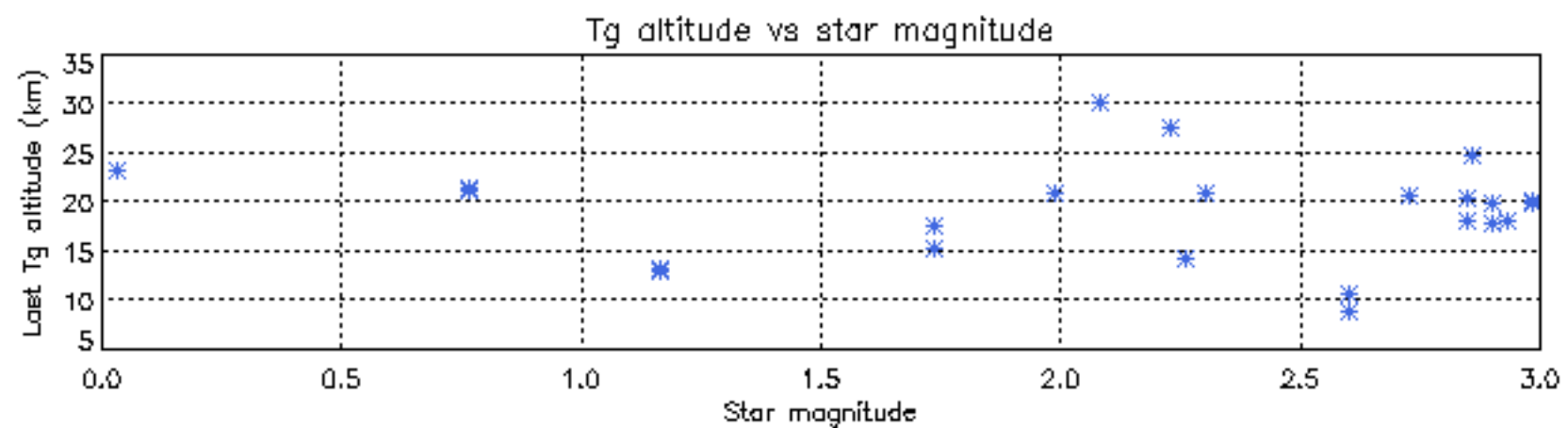
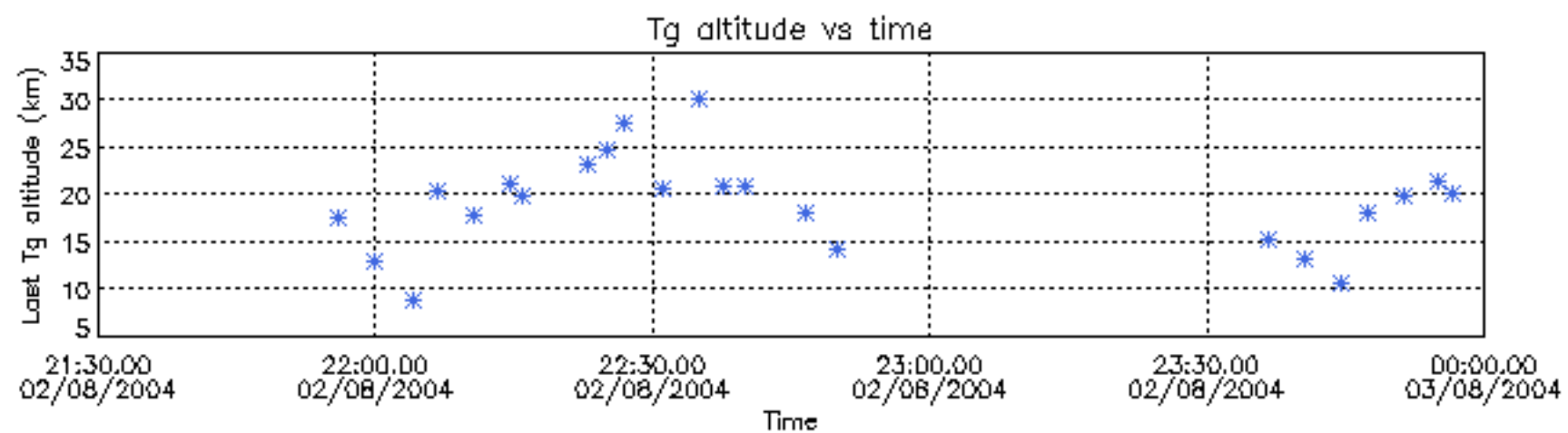
Percentage of saturation errors per profile



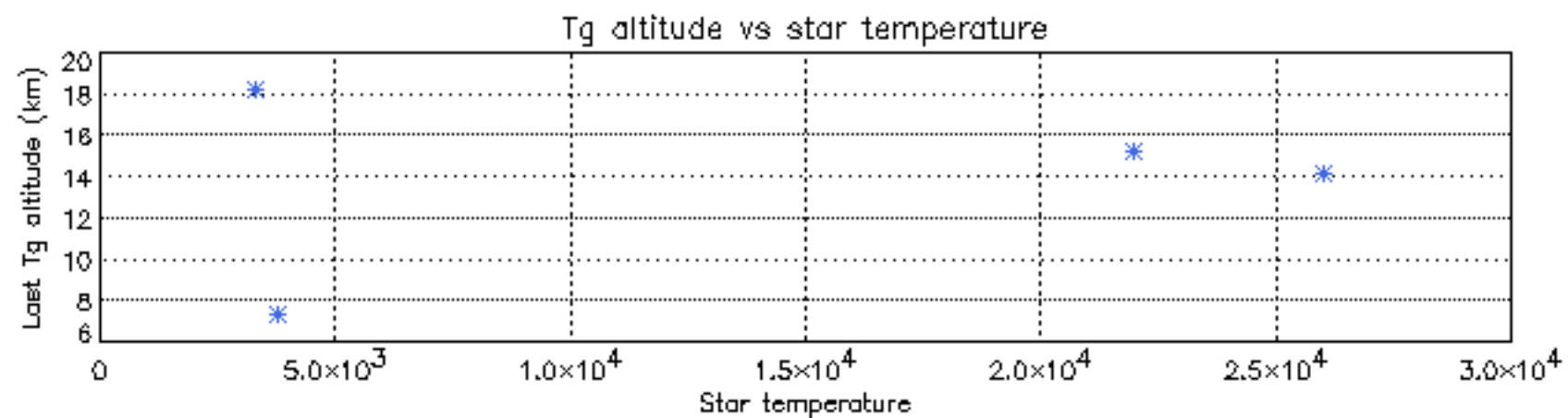
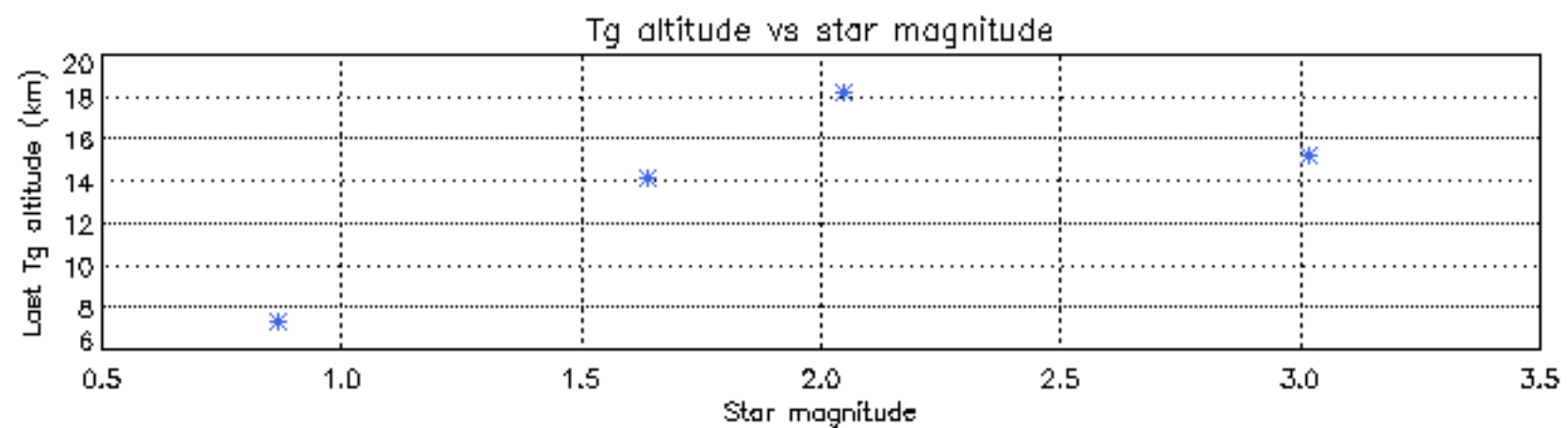
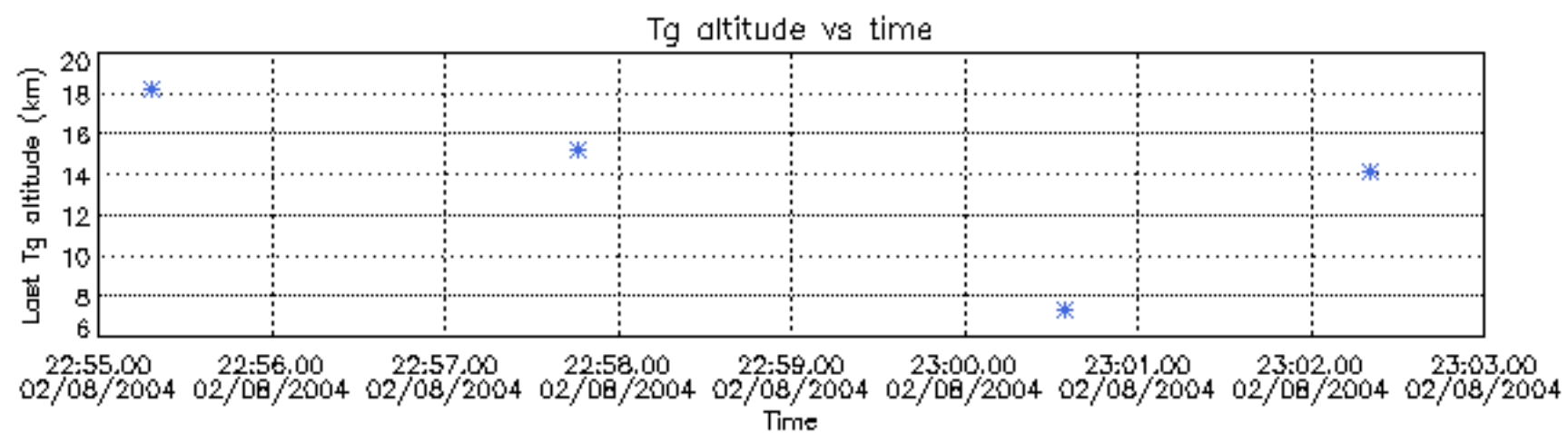
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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2;	-579.9;	01-AUG-2004	00:13:46;	Dark	;	39.0;	177;	1Zet	CMA	;	3.02;	26000;	occ;	78;	0;	12652
3;	-481.8;	01-AUG-2004	00:15:24;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	12652
4;	-209.3;	01-AUG-2004	00:19:57;	Dark	;	45.5;	2;	Alp	Car	;	-0.74;	7000;	occ;	91;	0;	12652
5;	307.4;	01-AUG-2004	00:28:34;	Dark	;	53.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	107;	0;	12653
6;	424.1;	01-AUG-2004	00:30:30;	Dark	;	40.5;	135;	Bet	Hyi	;	2.82;	5800;	occ;	81;	0;	12653
7;	592.4;	01-AUG-2004	00:33:19;	Dark	;	60.5;	84;	Alp	Phe	;	2.40;	4500;	occ;	121;	0;	12653
8;	715.4;	01-AUG-2004	00:35:22;	Dark	;	45.5;	148;	Alp	Tuc	;	2.88;	4100;	occ;	91;	0;	12653
9;	919.0;	01-AUG-2004	00:38:45;	Dark	;	50.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	100;	0;	12653
10;	1133.7;	01-AUG-2004	00:42:20;	Dark	;	68.5;	18;	24Alp	PsA	;	1.17;	9700;	occ;	137;	0;	12653
11;	1359.9;	01-AUG-2004	00:46:06;	Dark	;	44.5;	38;	20Eps	Sgr	;	1.84;	11000;	occ;	89;	0;	12653
12;	1438.3;	01-AUG-2004	00:47:24;	Bright	;	40.0;	116;	19Del	Sgr	;	2.70;	4100;	occ;	80;	0;	12653
13;	1568.6;	01-AUG-2004	00:49:35;	Bright	;	54.0;	142;	49Del	Cap	;	2.85;	8900;	occ;	108;	0;	12653
14;	1820.8;	01-AUG-2004	00:53:47;	Bright	;	55.0;	154;	22Bet	Aqr	;	2.90;	5700;	occ;	110;	0;	12653
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16;	2143.6;	01-AUG-2004	00:59:10;	Bright	;	36.5;	168;	17Zet	Aql	;	2.99;	11000;	occ;	73;	0;	12653
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18;	2691.7;	01-AUG-2004	01:08:18;	Bright	;	38.0;	144;	18Del	Cyg	;	2.86;	11000;	occ;	76;	0;	12653
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22;	3438.2;	01-AUG-2004	01:20:44;	Bright	;	38.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	76;	0;	12653
23;	3592.9;	01-AUG-2004	01:23:19;	Bright	;	50.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	101;	0;	12653
24;	3976.0;	01-AUG-2004	01:29:42;	Bright	;	68.5;	160;	23Gam	Per	;	2.93;	4700;	occ;	137;	0;	12653
25;	4152.2;	01-AUG-2004	01:32:38;	Bright	;	80.5;	73;	57Gam1	And	;	2.26;	13100;	occ;	161;	0;	12653
26;	4318.6;	01-AUG-2004	01:35:25;	Dark	;	255.0;	53;	43Bet	And	;	2.05;	3300;	occ;	510;	0;	12653
27;	4637.6;	01-AUG-2004	01:40:44;	Dark	;	44.0;	176;	23Zet	Tau	;	3.02;	22000;	occ;	88;	0;	12653
28;	4790.3;	01-AUG-2004	01:43:16;	Dark	;	64.0;	13;	87Alp	Tau	;	0.87;	3800;	occ;	128;	0;	12653
29;	4910.1;	01-AUG-2004	01:45:16;	Dark	;	45.5;	27;	24Gam	Ori	;	1.64;	26000;	occ;	91;	0;	12653
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31;	5101.6;	01-AUG-2004	01:48:28;	Dark	;	43.5;	125;	44Iot	Ori	;	2.77;	30000;	occ;	87;	0;	12653

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4;	-481.6;	01-AUG-2004	01:56:00;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	12653
5;	-209.2;	01-AUG-2004	02:00:33;	Dark	;	51.0;	2;	Alp	Car	;	-0.74;	7000;	occ;	102;	0;	12653
6;	308.2;	01-AUG-2004	02:09:10;	Dark	;	55.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	111;	0;	12654
7;	424.4;	01-AUG-2004	02:11:06;	Dark	;	39.0;	135;	Bet	Hyi	;	2.82;	5800;	occ;	78;	0;	12654
8;	595.1;	01-AUG-2004	02:13:57;	Dark	;	59.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	118;	0;	12654
9;	715.9;	01-AUG-2004	02:15:58;	Dark	;	47.5;	148;	Alp	Tuc	;	2.88;	4100;	occ;	95;	0;	12654
10;	919.1;	01-AUG-2004	02:19:21;	Dark	;	54.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	108;	0;	12654
11;	1134.0;	01-AUG-2004	02:22:56;	Dark	;	70.0;	18;	24Alp	PsA	;	1.17;	9700;	occ;	140;	0;	12654
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13;	1438.4;	01-AUG-2004	02:28:00;	Bright	;	42.0;	116;	19Del	Sgr	;	2.70;	4100;	occ;	84;	0;	12654
14;	1568.7;	01-AUG-2004	02:30:11;	Bright	;	53.5;	142;	49Del	Cap	;	2.85;	8900;	occ;	107;	0;	12654
15;	1820.2;	01-AUG-2004	02:34:22;	Bright	;	55.5;	154;	22Bet	Aqr	;	2.90;	5700;	occ;	111;	0;	12654
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17;	2143.4;	01-AUG-2004	02:39:45;	Bright	;	37.5;	168;	17Zet	Aql	;	2.99;	11000;	occ;	75;	0;	12654
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19;	2691.0;	01-AUG-2004	02:48:53;	Bright	;	40.0;	144;	18Del	Cyg	;	2.86;	11000;	occ;	80;	0;	12654
20;	2795.2;	01-AUG-2004	02:50:37;	Bright	;	39.5;	69;	33Gam	Dra	;	2.23;	3800;	occ;	79;	0;	12654
21;	3036.9;	01-AUG-2004	02:54:39;	Bright	;	39.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	78;	0;	12654
22;	3285.0;	01-AUG-2004	02:58:47;	Bright	;	35.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	70;	0;	12654
23;	3438.9;	01-AUG-2004	03:01:21;	Bright	;	34.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	69;	0;	12654

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2;	-2060.9;	01-AUG-2004	03:10:17;	Bright	;	49.5;	160;	23Gam	Per	;	2.93;	4700;	occ;	99;	0;	12654
3;	-1884.6;	01-AUG-2004	03:13:13;	Bright	;	86.0;	73;	57Gam1	And	;	2.26;	13100;	occ;	172;	0;	12654
4;	-1718.4;	01-AUG-2004	03:16:00;	Dark	;	255.0;	53;	43Bet	And	;	2.05;	3300;	occ;	510;	0;	12654
5;	-1397.5;	01-AUG-2004	03:21:21;	Dark	;	44.0;	176;	23Zet	Tau	;	3.02;	22000;	occ;	88;	0;	12654
6;	-1245.2;	01-AUG-2004	03:23:53;	Dark	;	58.0;	13;	87Alp	Tau	;	0.87;	3800;	occ;	116;	0;	12654
7;	-1125.6;	01-AUG-2004	03:25:52;	Dark	;	44.5;	27;	24Gam	Ori	;	1.64;	26000;	occ;	89;	0;	12654
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9;	-932.1;	01-AUG-2004	03:29:06;	Dark	;	42.0;	125;	44Iot	Ori	;	2.77;	30000;	occ;	84;	0;	12654
10;	-813.7;	01-AUG-2004	03:31:04;	Dark	;	40.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	80;	0;	12654
11;	-732.2;	01-AUG-2004	03:32:26;	Dark	;	44.0;	101;	11Alp	Lep	;	2.58;	7000;	occ;	88;	0;	12654

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18; 719.2; 01-AUG-2004 03:56:37; Dark ; 44.5; 148; Alp Tuc ; 2.88; 4100;occ; 89; 0;12655
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24; 1817.6; 01-AUG-2004 04:14:56; Bright; 57.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 115; 0;12655
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26; 2143.9; 01-AUG-2004 04:20:22; Bright; 37.0; 168; 17Zet Aql ; 2.99; 11000;occ; 74; 0;12655
27; 2569.1; 01-AUG-2004 04:27:27; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;12655
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29; 2796.1; 01-AUG-2004 04:31:14; Bright; 37.5; 69; 33Gam Dra ; 2.23; 3800;occ; 75; 0;12655
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32; 3439.3; 01-AUG-2004 04:41:57; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;12655
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11; -2066.1; 02-AUG-2004 07:40:23; Bright; 50.5; 160; 23Gam Per ; 2.93; 4700;occ; 101; 0;12671
12; -1894.7; 02-AUG-2004 07:43:14; Bright; 89.5; 73; 57Gam1And ; 2.26; 13100;occ; 179; 0;12671
13; -1735.5; 02-AUG-2004 07:45:53; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12671
14; -1393.0; 02-AUG-2004 07:51:36; Dark ; 40.5; 176; 23Zet Tau ; 3.02; 22000;occ; 81; 0;12671
15; -1238.7; 02-AUG-2004 07:54:10; Dark ; 61.0; 13; 87Alp Tau ; 0.87; 3800;occ; 122; 0;12671
16; -1120.9; 02-AUG-2004 07:56:08; Dark ; 40.5; 27; 24Gam Ori ; 1.64; 26000;occ; 81; 0;12671
17; -1004.7; 02-AUG-2004 07:58:04; Dark ; 39.5; 30; 46Eps Ori ; 1.69; 30000;occ; 79; 0;12671
18; -924.8; 02-AUG-2004 07:59:24; Dark ; 39.5; 125; 44Iot Ori ; 2.77; 30000;occ; 79; 0;12671
19; -811.8; 02-AUG-2004 08:01:17; Dark ; 51.0; 1; 9Alp CMA ; -1.44; 11000;occ; 102; 0;12671
20; -725.0; 02-AUG-2004 08:02:44; Dark ; 43.5; 101; 11Alp Lep ; 2.58; 7000;occ; 87; 0;12671
21; -567.9; 02-AUG-2004 08:05:21; Dark ; 54.5; 165; 34Gam Eri ; 2.95; 3200;occ; 109; 0;12671
22; -286.1; 02-AUG-2004 08:10:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12671
23; -3.0; 02-AUG-2004 08:14:46; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;12671
24; 321.8; 02-AUG-2004 08:20:11; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;12672
25; 430.3; 02-AUG-2004 08:21:59; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;12672
26; 615.2; 02-AUG-2004 08:25:04; Dark ; 69.5; 84; Alp Phe ; 2.40; 4500;occ; 139; 0;12672
27; 726.9; 02-AUG-2004 08:26:56; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;12672
28; 861.3; 02-AUG-2004 08:29:10; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;12672
29; 1146.2; 02-AUG-2004 08:33:55; Dark ; 69.5; 18; 24Alp PsA ; 1.17; 9700;occ; 139; 0;12672
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31; 1569.8; 02-AUG-2004 08:40:59; Bright; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;12672
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2; -3979.2; 02-AUG-2004 08:49:05; Bright; 40.0; 11; 53Alp Aql ; 0.76; 8000;occ; 80; 0;12672
3; -3890.4; 02-AUG-2004 08:50:34; Bright; 37.0; 168; 17Zet Aql ; 2.99; 11000;occ; 74; 0;12672
4; -3465.1; 02-AUG-2004 08:57:40; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;12672
5; -3346.8; 02-AUG-2004 08:59:38; Bright; 39.5; 144; 18Del Cyg ; 2.86; 11000;occ; 79; 0;12672

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7;-2992.1; 02-AUG-2004 09:05:33; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;12672
8;-2744.5; 02-AUG-2004 09:09:40; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;12672
9;-2596.5; 02-AUG-2004 09:12:08; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;12672
10;-2456.3; 02-AUG-2004 09:14:28; Bright; 49.5; 76; 27Gam Cas ; 2.30; 30000;occ; 99; 0;12672
11;-2067.5; 02-AUG-2004 09:20:57; Bright; 50.5; 160; 23Gam Per ; 2.93; 4700;occ; 101; 0;12672
12;-1895.3; 02-AUG-2004 09:23:49; Bright; 85.0; 73; 57Gam1And ; 2.26; 13100;occ; 170; 0;12672
13;-1736.6; 02-AUG-2004 09:26:28; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12672
14;-1392.8; 02-AUG-2004 09:32:12; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;12672
15;-1238.0; 02-AUG-2004 09:34:47; Dark ; 59.5; 13; 87Alp Tau ; 0.87; 3800;occ; 119; 0;12672
16;-1119.8; 02-AUG-2004 09:36:45; Dark ; 41.0; 27; 24Gam Ori ; 1.64; 26000;occ; 82; 0;12672
17;-1004.4; 02-AUG-2004 09:38:40; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;12672
18; -924.0; 02-AUG-2004 09:40:01; Dark ; 41.0; 125; 44Iot Ori ; 2.77; 30000;occ; 82; 0;12672
19; -811.7; 02-AUG-2004 09:41:53; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;12672
20; -724.4; 02-AUG-2004 09:43:20; Dark ; 43.0; 101; 11Alp Lep ; 2.58; 7000;occ; 86; 0;12672
21; -566.9; 02-AUG-2004 09:45:58; Dark ; 59.5; 165; 34Gam Eri ; 2.95; 3200;occ; 119; 0;12672
22; -285.4; 02-AUG-2004 09:50:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12672
23; -2.0; 02-AUG-2004 09:55:23; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;12672
24; 322.3; 02-AUG-2004 10:00:47; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;12673
25; 430.5; 02-AUG-2004 10:02:35; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;12673
26; 616.8; 02-AUG-2004 10:05:41; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;12673
27; 727.0; 02-AUG-2004 10:07:32; Dark ; 44.5; 148; Alp Tuc ; 2.88; 4100;occ; 89; 0;12673
28; 862.1; 02-AUG-2004 10:09:47; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;12673
29; 1147.4; 02-AUG-2004 10:14:32; Dark ; 67.5; 18; 24Alp PsA ; 1.17; 9700;occ; 135; 0;12673
30; 1416.3; 02-AUG-2004 10:19:01; Dark ; 52.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 104; 0;12673
31; 1570.5; 02-AUG-2004 10:21:35; Bright; 52.5; 142; 49Del Cap ; 2.85; 8900;occ; 105; 0;12673
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2;-3979.4; 02-AUG-2004 10:29:41; Bright; 39.5; 11; 53Alp Aql ; 0.76; 8000;occ; 79; 0;12673
3;-3890.5; 02-AUG-2004 10:31:10; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;12673
4;-3465.1; 02-AUG-2004 10:38:15; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;12673
5;-3347.4; 02-AUG-2004 10:40:13; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;12673
6;-3235.8; 02-AUG-2004 10:42:05; Bright; 41.0; 69; 33Gam Dra ; 2.23; 3800;occ; 82; 0;12673
7;-2991.8; 02-AUG-2004 10:46:09; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;12673
8;-2745.6; 02-AUG-2004 10:50:15; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;12673
9;-2596.7; 02-AUG-2004 10:52:44; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;12673
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11;-2068.0; 02-AUG-2004 11:01:32; Bright; 51.5; 160; 23Gam Per ; 2.93; 4700;occ; 103; 0;12673
12;-1895.9; 02-AUG-2004 11:04:25; Bright; 88.5; 73; 57Gam1And ; 2.26; 13100;occ; 177; 0;12673
13;-1737.4; 02-AUG-2004 11:07:03; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12673
14;-1392.7; 02-AUG-2004 11:12:48; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;12673
15;-1237.9; 02-AUG-2004 11:15:23; Dark ; 57.0; 13; 87Alp Tau ; 0.87; 3800;occ; 114; 0;12673
16;-1119.6; 02-AUG-2004 11:17:21; Dark ; 47.5; 27; 24Gam Ori ; 1.64; 26000;occ; 95; 0;12673
17;-1003.9; 02-AUG-2004 11:19:17; Dark ; 45.0; 30; 46Eps Ori ; 1.69; 30000;occ; 90; 0;12673
18; -924.0; 02-AUG-2004 11:20:36; Dark ; 42.0; 125; 44Iot Ori ; 2.77; 30000;occ; 84; 0;12673
19; -811.9; 02-AUG-2004 11:22:29; Dark ; 44.0; 1; 9Alp CMA ; -1.44; 11000;occ; 88; 0;12673
20; -724.2; 02-AUG-2004 11:23:56; Dark ; 43.0; 101; 11Alp Lep ; 2.58; 7000;occ; 86; 0;12673
21; -566.1; 02-AUG-2004 11:26:34; Dark ; 60.0; 165; 34Gam Eri ; 2.95; 3200;occ; 120; 0;12673
22; -284.7; 02-AUG-2004 11:31:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12673
23; -1.3; 02-AUG-2004 11:35:59; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;12673
24; 322.7; 02-AUG-2004 11:41:23; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;12674
25; 430.2; 02-AUG-2004 11:43:11; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12674
26; 617.6; 02-AUG-2004 11:46:18; Dark ; 59.5; 84; Alp Phe ; 2.40; 4500;occ; 119; 0;12674
27; 727.3; 02-AUG-2004 11:48:08; Dark ; 48.0; 148; Alp Tuc ; 2.88; 4100;occ; 96; 0;12674
28; 862.6; 02-AUG-2004 11:50:23; Dark ; 59.5; 63; Bet Gru ; 2.15; 2800;occ; 119; 0;12674
29; 1147.7; 02-AUG-2004 11:55:08; Dark ; 69.5; 18; 24Alp PsA ; 1.17; 9700;occ; 139; 0;12674
30; 1416.0; 02-AUG-2004 11:59:36; Dark ; 44.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 88; 0;12674
31; 1570.4; 02-AUG-2004 12:02:11; Bright; 51.0; 142; 49Del Cap ; 2.85; 8900;occ; 102; 0;12674
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2;-3979.7; 02-AUG-2004 12:10:17; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;12674
3;-3890.5; 02-AUG-2004 12:11:46; Bright; 37.0; 168; 17Zet Aql ; 2.99; 11000;occ; 74; 0;12674
4;-3465.4; 02-AUG-2004 12:18:51; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;12674
5;-3347.7; 02-AUG-2004 12:20:49; Bright; 38.0; 144; 18Del Cyg ; 2.86; 11000;occ; 76; 0;12674
6;-3235.8; 02-AUG-2004 12:22:41; Bright; 40.0; 69; 33Gam Dra ; 2.23; 3800;occ; 80; 0;12674
7;-2991.9; 02-AUG-2004 12:26:44; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;12674
8;-2744.7; 02-AUG-2004 12:30:52; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;12674
9;-2596.9; 02-AUG-2004 12:33:19; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;12674

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10;-2457.8; 02-AUG-2004 12:35:39; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;12674
 11;-2068.3; 02-AUG-2004 12:42:08; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98; 0;12674
 12;-1896.2; 02-AUG-2004 12:45:00; Bright; 89.5; 73; 57Gam1And ; 2.26; 13100;occ; 179; 0;12674
 13;-1738.5; 02-AUG-2004 12:47:38; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12674
 14;-1392.8; 02-AUG-2004 12:53:24; Dark ; 42.5; 176; 23Zet Tau ; 3.02; 22000;occ; 85; 0;12674
 15;-1237.6; 02-AUG-2004 12:55:59; Dark ; 65.0; 13; 87Alp Tau ; 0.87; 3800;occ; 130; 0;12674
 16;-1119.8; 02-AUG-2004 12:57:57; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;12674
 17;-1003.7; 02-AUG-2004 12:59:53; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;12674
 18; -923.7; 02-AUG-2004 13:01:13; Dark ; 42.0; 125; 44Iot Ori ; 2.77; 30000;occ; 84; 0;12674
 19; -811.7; 02-AUG-2004 13:03:05; Dark ; 39.0; 1; 9Alp CMA ; -1.44; 11000;occ; 78; 0;12674
 20; -723.8; 02-AUG-2004 13:04:33; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;12674
 21; -565.1; 02-AUG-2004 13:07:11; Dark ; 58.0; 165; 34Gam Eri ; 2.95; 3200;occ; 116; 0;12674
 22; -283.9; 02-AUG-2004 13:11:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12674
 23; -0.3; 02-AUG-2004 13:16:36; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;12674
 24; 323.4; 02-AUG-2004 13:22:00; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;12675
 25; 430.4; 02-AUG-2004 13:23:47; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12675
 26; 617.4; 02-AUG-2004 13:26:54; Dark ; 60.0; 84; Alp Phe ; 2.40; 4500;occ; 120; 0;12675
 27; 727.7; 02-AUG-2004 13:28:44; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;12675
 28; 931.1; 02-AUG-2004 13:32:07; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;12675
 29; 1147.7; 02-AUG-2004 13:35:44; Dark ; 72.0; 18; 24Alp PsA ; 1.17; 9700;occ; 144; 0;12675
 30; 1416.2; 02-AUG-2004 13:40:13; Dark ; 50.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 101; 0;12675
 31; 1570.0; 02-AUG-2004 13:42:46; Bright; 1.5; 142; 49Del Cap ; 2.85; 8900;occ; 3; 0;12675

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Problem occurred when reading packet number 991!

Problem occurred when reading packet number 3241!

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 3;-3979.8; 02-AUG-2004 13:50:52; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;12675
 4;-3891.0; 02-AUG-2004 13:52:21; Bright; 36.5; 168; 17Zet Aql ; 2.99; 11000;occ; 73; 0;12675
 5;-3465.1; 02-AUG-2004 13:59:27; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;12675
 6;-3347.6; 02-AUG-2004 14:01:25; Bright; 38.0; 144; 18Del Cyg ; 2.86; 11000;occ; 76; 0;12675
 7;-3235.4; 02-AUG-2004 14:03:17; Bright; 41.0; 69; 33Gam Dra ; 2.23; 3800;occ; 82; 0;12675
 8;-2991.4; 02-AUG-2004 14:07:21; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;12675
 9;-2743.8; 02-AUG-2004 14:11:28; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;12675
 10;-2596.7; 02-AUG-2004 14:13:56; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;12675
 11;-2458.3; 02-AUG-2004 14:16:14; Bright; 50.5; 76; 27Gam Cas ; 2.30; 30000;occ; 101; 0;12675
 12;-2067.8; 02-AUG-2004 14:22:45; Bright; 316.0; 160; 23Gam Per ; 2.93; 4700;occ; 632; 547;12675
 13;-144771048.8; 01-JAN-2000 00:46:23; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98; 90;12675
 14;-144770922.2; 01-JAN-2000 00:48:30; Bright; 87.0; 73; 57Gam1And ; 2.26; 13100;occ; 174; 0;12675
 15;-144770764.8; 01-JAN-2000 00:51:07; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12675
 16;-144770416.9; 01-JAN-2000 00:56:55; Dark ; 42.0; 176; 23Zet Tau ; 3.02; 22000;occ; 84; 0;12675
 17;-144770262.1; 01-JAN-2000 00:59:30; Dark ; 65.0; 13; 87Alp Tau ; 0.87; 3800;occ; 130; 0;12675
 18;-144770143.1; 01-JAN-2000 01:01:29; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;12675
 19;-144770028.3; 01-JAN-2000 01:03:24; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;12675
 20;-144769948.4; 01-JAN-2000 01:04:44; Dark ; 39.0; 125; 44Iot Ori ; 2.77; 30000;occ; 78; 0;12675
 21;-144769836.0; 01-JAN-2000 01:06:36; Dark ; 45.0; 1; 9Alp CMA ; -1.44; 11000;occ; 90; 0;12675
 22;-144769748.2; 01-JAN-2000 01:08:04; Dark ; 44.0; 101; 11Alp Lep ; 2.58; 7000;occ; 88; 0;12675
 23;-144769601.1; 01-JAN-2000 01:10:31; Dark ; 39.5; 177; 1Zet CMA ; 3.02; 26000;occ; 79; 0;12675
 24;-144769502.4; 01-JAN-2000 01:12:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12675
 25;-144769231.6; 01-JAN-2000 01:16:41; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;12675
 26;-144769024.4; 01-JAN-2000 01:20:08; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;12675
 27;-144768701.3; 01-JAN-2000 01:25:31; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;12675
 28;-144768594.9; 01-JAN-2000 01:27:17; Dark ; 41.0; 135; Bet Hyi ; 2.82; 5800;occ; 82; 0;12675
 29;-144768406.0; 01-JAN-2000 01:30:26; Dark ; 65.0; 84; Alp Phe ; 2.40; 4500;occ; 130; 0;12675
 30;-144768297.3; 01-JAN-2000 01:32:15; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;12675
 31;-144768092.7; 01-JAN-2000 01:35:40; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 15;12675
 32;-144767876.1; 01-JAN-2000 01:39:16; Dark ; 68.0; 18; 24Alp PsA ; 1.17; 9700;occ; 136; 36;12675
 33;-144767609.7; 01-JAN-2000 01:43:43; Dark ; 10.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 20; 0;12675

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1;-4620.6; 02-AUG-2004 15:20:48; Dark ; 46.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 92; 0;12676
 2;-4465.4; 02-AUG-2004 15:23:23; Bright; 53.5; 142; 49Del Cap ; 2.85; 8900;occ; 107; 0;12676
 3;-4219.2; 02-AUG-2004 15:27:29; Bright; 53.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 106; 0;12676
 4;-3980.2; 02-AUG-2004 15:31:28; Bright; 39.5; 11; 53Alp Aql ; 0.76; 8000;occ; 79; 0;12676
 5;-3892.0; 02-AUG-2004 15:32:56; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76; 0;12676
 6;-3465.5; 02-AUG-2004 15:40:03; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;12676
 7;-3348.0; 02-AUG-2004 15:42:00; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;12676
 8;-3235.7; 02-AUG-2004 15:43:53; Bright; 38.0; 69; 33Gam Dra ; 2.23; 3800;occ; 76; 0;12676
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12;-2260.0; 23-AUG-2004 11:38:33; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;12974
13;-2106.8; 23-AUG-2004 11:41:06; Bright; 61.5; 35; 33Alp Per ; 1.79; 6250;occ; 123; 0;12974
14;-1807.1; 23-AUG-2004 11:46:06; Dark ; 255.0; 173; 4Bet Tri ; 3.00; 8900;occ; 510; 0;12974
15;-1460.9; 23-AUG-2004 11:51:52; Dark ; 59.0; 28; 12Bet Tau ; 1.65; 15200;occ; 118; 0;12974
16;-1286.2; 23-AUG-2004 11:54:47; Dark ; 46.0; 44; 24Gam Gem ; 1.93; 11000;occ; 92; 0;12974
17;-1196.1; 23-AUG-2004 11:56:17; Dark ; 41.0; 153; 3Bet CMi ; 2.89; 13100;occ; 82; 0;12974
18;-1050.6; 23-AUG-2004 11:58:42; Dark ; 58.0; 14; 58Alp Ori ; 0.87; 3000;occ; 116; 0;12974
19; -953.5; 23-AUG-2004 12:00:19; Dark ; 62.5; 27; 24Gam Ori ; 1.64; 26000;occ; 125; 0;12974
20; -837.5; 23-AUG-2004 12:02:15; Dark ; 56.5; 30; 46Eps Ori ; 1.69; 30000;occ; 113; 0;12974
21; -726.0; 23-AUG-2004 12:04:07; Dark ; 55.0; 1; 9Alp CMA ; -1.44; 11000;occ; 110; 0;12974
22; -632.5; 23-AUG-2004 12:05:40; Dark ; 75.5; 7; 19Bet Ori ; 0.10; 14000;occ; 151; 0;12974
23; -423.7; 23-AUG-2004 12:09:09; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;12974
24; -313.0; 23-AUG-2004 12:11:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12974
25; -140.1; 23-AUG-2004 12:13:53; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;12974
26; 340.9; 23-AUG-2004 12:21:54; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;12975
27; 527.8; 23-AUG-2004 12:25:01; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;12975
28; 833.0; 23-AUG-2004 12:30:06; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;12975
29; 971.1; 23-AUG-2004 12:32:24; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;12975
30; 1050.7; 23-AUG-2004 12:33:43; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;12975
31; 1291.9; 23-AUG-2004 12:37:45; Dark ; 54.5; 18; 24Alp PsA ; 1.17; 9700;occ; 109; 0;12975
32; 1602.7; 23-AUG-2004 12:42:55; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 21; 0;12975
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1;-4433.2; 23-AUG-2004 12:42:55; Dark ; 46.5; 142; 49Del Cap ; 2.85; 8900;occ; 93; 0;12975
2;-4237.3; 23-AUG-2004 12:46:11; Bright; 42.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 84; 0;12975
3;-4134.0; 23-AUG-2004 12:47:55; Bright; 44.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 88; 0;12975
4;-3949.8; 23-AUG-2004 12:50:59; Bright; 41.0; 61; 8Eps Peg ; 2.10; 3900;occ; 82; 0;12975
5;-3707.3; 23-AUG-2004 12:55:01; Bright; 56.5; 90; 54Alp Peg ; 2.49; 11000;occ; 113; 0;12975
6;-3549.5; 23-AUG-2004 12:57:39; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;12975
7;-3445.2; 23-AUG-2004 12:59:23; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;12975
8;-3357.4; 23-AUG-2004 13:00:51; Bright; 41.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 82; 0;12975
9;-3046.3; 23-AUG-2004 13:06:02; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;12975
10;-2814.4; 23-AUG-2004 13:09:54; Bright; 46.5; 74; 11Bet Cas ; 2.27; 6600;occ; 93; 0;12975
11;-2654.0; 23-AUG-2004 13:12:35; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;12975
12;-2257.9; 23-AUG-2004 13:19:11; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;12975
13;-2107.6; 23-AUG-2004 13:21:41; Bright; 62.5; 35; 33Alp Per ; 1.79; 6250;occ; 125; 0;12975
14;-1809.6; 23-AUG-2004 13:26:39; Dark ; 255.0; 173; 4Bet Tri ; 3.00; 8900;occ; 510; 0;12975
15;-1460.4; 23-AUG-2004 13:32:28; Dark ; 59.0; 28; 12Bet Tau ; 1.65; 15200;occ; 118; 0;12975

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16;	-1286.0;	23-AUG-2004	13:35:23;	Dark	;	42.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	84;	0;	12975
17;	-1194.6;	23-AUG-2004	13:36:54;	Dark	;	38.5;	153;	3Bet	CMi	;	2.89;	13100;	occ;	77;	0;	12975
18;	-1049.9;	23-AUG-2004	13:39:19;	Dark	;	60.5;	14;	58Alp	Ori	;	0.87;	3000;	occ;	121;	0;	12975
19;	-953.0;	23-AUG-2004	13:40:56;	Dark	;	63.5;	27;	24Gam	Ori	;	1.64;	26000;	occ;	127;	0;	12975
20;	-836.6;	23-AUG-2004	13:42:52;	Dark	;	56.5;	30;	46Eps	Ori	;	1.69;	30000;	occ;	113;	0;	12975
21;	-725.2;	23-AUG-2004	13:44:43;	Dark	;	51.0;	1;	9Alp	CMa	;	-1.44;	11000;	occ;	102;	0;	12975
22;	-631.1;	23-AUG-2004	13:46:18;	Dark	;	63.0;	7;	19Bet	Ori	;	0.10;	14000;	occ;	126;	0;	12975
23;	-422.9;	23-AUG-2004	13:49:46;	Dark	;	42.0;	70;	Zet	Pup	;	2.25;	39000;	occ;	84;	0;	12975
24;	-312.8;	23-AUG-2004	13:51:36;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	12975
25;	-139.5;	23-AUG-2004	13:54:29;	Dark	;	53.0;	2;	Alp	Car	;	-0.74;	7000;	occ;	106;	0;	12975
26;	341.8;	23-AUG-2004	14:02:30;	Dark	;	55.5;	157;	The1Eri		;	2.91;	9300;	occ;	111;	0;	12976
27;	528.5;	23-AUG-2004	14:05:37;	Dark	;	48.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	96;	0;	12976
28;	832.7;	23-AUG-2004	14:10:41;	Dark	;	41.5;	148;	Alp	Tuc	;	2.88;	4100;	occ;	83;	0;	12976
29;	971.1;	23-AUG-2004	14:13:00;	Dark	;	43.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	87;	0;	12976
30;	1050.8;	23-AUG-2004	14:14:19;	Dark	;	42.5;	31;	Alp	Gru	;	1.73;	15200;	occ;	85;	0;	12976
31;	1292.1;	23-AUG-2004	14:18:21;	Dark	;	53.0;	18;	24Alp	PsA	;	1.17;	9700;	occ;	106;	0;	12976