

GOMOS Daily Report 26-JUL-2004

Level 0 and Level 1 products

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1. General Info

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	28JUL2004 05:02:16
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (26JUL2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (27JUL2004 00:00:00)

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

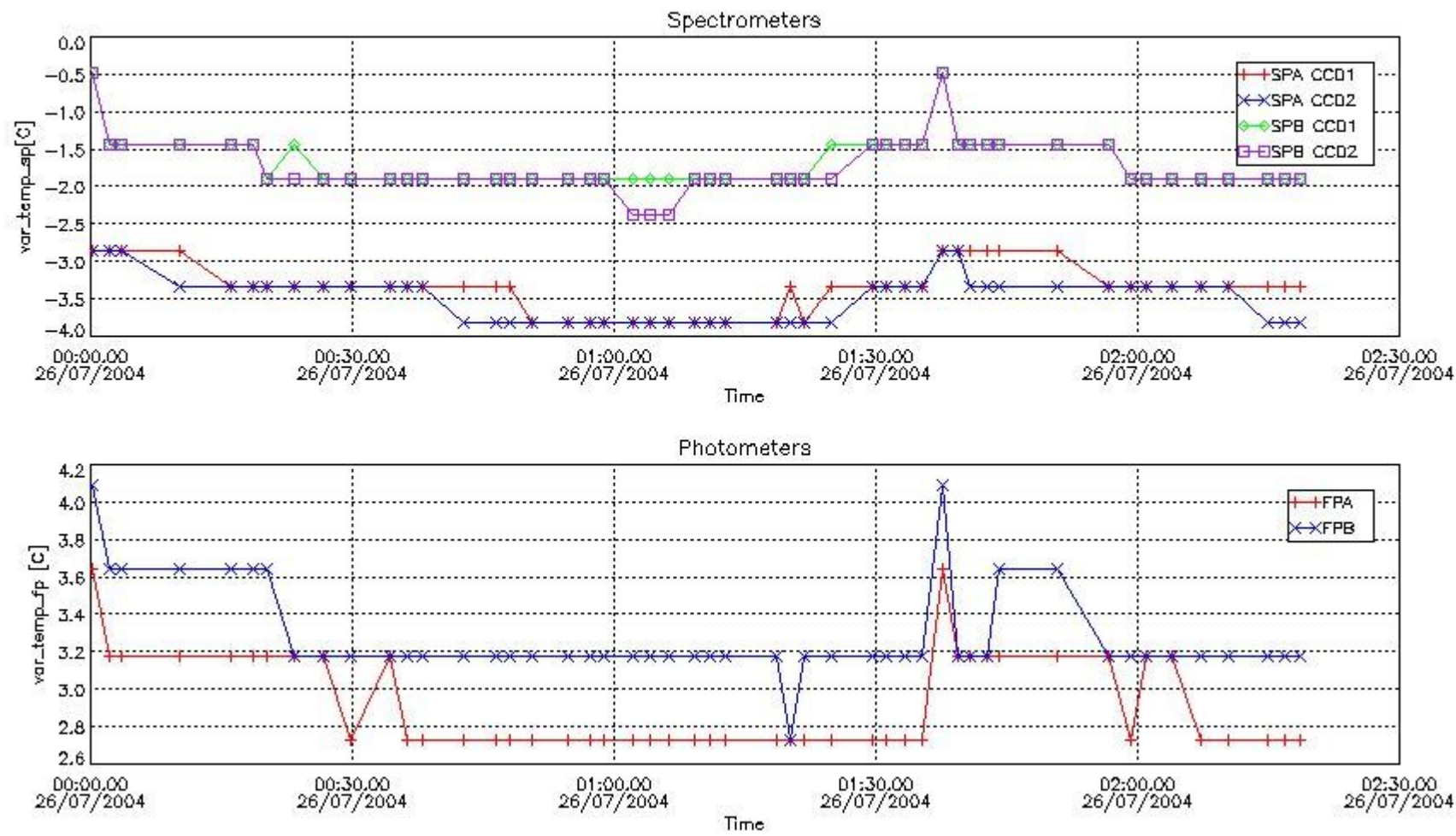
2. Summary of products arrived in PCF (Product Control Facility)

2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Summary of processed GOM_TRA_1P products

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20040726_000007_000000472028_00488_12566_0000.N1	26-JUL-2004 00:00:07	Dark	46.500	139	9Bet Lep	2.8330	5600.0	93	12566	No
GOM_TRA_1PNPDE20040726_000206_000000402028_00488_12566_0001.N1	26-JUL-2004 00:02:06	Dark	39.500	177	1Zet CMa	3.0220	26000.	79	12566	No
GOM_TRA_1PNPDE20040726_000331_000000452028_00488_12566_0002.N1	26-JUL-2004 00:03:31	Dark	44.500	108	Alp Col	2.6520	15200.	89	12566	No
GOM_TRA_1PNPDE20040726_001015_000000482028_00488_12566_0003.N1	26-JUL-2004 00:10:15	Dark	47.500	157	The1Eri	2.9060	9300.0	95	12566	No
GOM_TRA_1PNPDE20040726_001605_000000462028_00489_12567_0004.N1	26-JUL-2004 00:16:05	Dark	45.500	9	Alp Eri	0.45300	24000.	91	12567	No
GOM_TRA_1PNPDE20040726_001840_000000412028_00489_12567_0005.N1	26-JUL-2004 00:18:40	Dark	40.500	135	Bet Hyi	2.8200	5800.0	81	12567	No
GOM_TRA_1PNPDE20040726_002017_000000622028_00489_12567_0006.N1	26-JUL-2004 00:20:17	Dark	62.000	84	Alp Phe	2.3970	4500.0	124	12567	No
GOM_TRA_1PNPDE20040726_002316_000000432028_00489_12567_0007.N1	26-JUL-2004 00:23:16	Twilight	43.000	148	Alp Tuc	2.8780	4100.0	86	12567	No
GOM_TRA_1PNPDE20040726_002642_000000422028_00489_12567_0008.N1	26-JUL-2004 00:26:42	Twilight	42.000	45	Alp Pav	1.9400	26000.	84	12567	No
GOM_TRA_1PNPDE20040726_002943_000000752028_00489_12567_0009.N1	26-JUL-2004 00:29:43	Bright	75.000	18	24Alp PsA	1.1660	9700.0	150	12567	No
GOM_TRA_1PNPDE20040726_003424_000000442028_00489_12567_0010.N1	26-JUL-2004 00:34:24	Bright	43.500	38	20Eps Sgr	1.8360	11000.	87	12567	No
GOM_TRA_1PNPDE20040726_003617_000000412028_00489_12567_0011.N1	26-JUL-2004 00:36:17	Bright	41.000	57	34Sig Sgr	2.0660	26000.	82	12567	No
GOM_TRA_1PNPDE20040726_003758_000000612028_00489_12567_0012.N1	26-JUL-2004 00:37:58	Bright	60.500	142	49Del Cap	2.8500	8900.0	121	12567	No
GOM_TRA_1PNPDE20040726_004241_000000632028_00489_12567_0013.N1	26-JUL-2004 00:42:41	Bright	63.000	154	22Bet Aqr	2.8990	5700.0	126	12567	No
GOM_TRA_1PNPDE20040726_004622_000000422028_00489_12567_0014.N1	26-JUL-2004 00:46:22	Bright	42.000	11	53Alp Aql	0.76500	8000.0	84	12567	No
GOM_TRA_1PNPDE20040726_004759_000000382028_00489_12567_0015.N1	26-JUL-2004 00:47:59	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	12567	No
GOM_TRA_1PNPDE20040726_005039_000000722028_00489_12567_0016.N1	26-JUL-2004 00:50:39	Bright	72.000	61	8Eps Peg	2.1000	3900.0	144	12567	No
GOM_TRA_1PNPDE20040726_005440_000000402028_00489_12567_0017.N1	26-JUL-2004 00:54:40	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	12567	No
GOM_TRA_1PNPDE20040726_005711_000000422028_00489_12567_0018.N1	26-JUL-2004 00:57:11	Bright	41.500	144	18Del Cyg	2.8600	11000.	83	12567	No
GOM_TRA_1PNPDE20040726_005847_000000382028_00489_12567_0019.N1	26-JUL-2004 00:58:47	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	12567	No
GOM_TRA_1PNPDE20040726_010206_000000392028_00489_12567_0020.N1	26-JUL-2004 01:02:06	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	12567	No
GOM_TRA_1PNPDE20040726_010404_000000422028_00489_12567_0021.N1	26-JUL-2004 01:04:04	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	12567	No
GOM_TRA_1PNPDE20040726_010619_000000372028_00489_12567_0022.N1	26-JUL-2004 01:06:19	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	12567	No
GOM_TRA_1PNPDE20040726_010914_000000412028_00489_12567_0023.N1	26-JUL-2004 01:09:14	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	12567	No
GOM_TRA_1PNPDE20040726_011100_000000542028_00489_12567_0024.N1	26-JUL-2004 01:11:00	Bright	53.500	74	11Bet Cas	2.2680	6600.0	107	12567	No
GOM_TRA_1PNPDE20040726_011247_000000492028_00489_12567_0025.N1	26-JUL-2004 01:12:47	Bright	49.000	76	27Gam Cas	2.3000	30000.	98	12567	No
GOM_TRA_1PNPDE20040726_011841_000000462028_00489_12567_0026.N1	26-JUL-2004 01:18:41	Bright	45.500	160	23Gam Per	2.9300	4700.0	91	12567	No
GOM_TRA_1PNPDE20040726_012014_000000492028_00489_12567_0027.N1	26-JUL-2004 01:20:14	Bright	48.500	35	33Alp Per	1.7950	6250.0	97	12567	No
GOM_TRA_1PNPDE20040726_012151_000000742028_00489_12567_0028.N1	26-JUL-2004 01:21:51	Twilight	74.000	73	57Gam1And	2.2600	13100.	148	12567	No
GOM_TRA_1PNPDE20040726_012451_000001922028_00489_12567_0029.N1	26-JUL-2004 01:24:51	Twilight	192.00	53	43Bet And	2.0480	3300.0	384	12567	No
GOM_TRA_1PNPDE20040726_012940_000000542028_00489_12567_0030.N1	26-JUL-2004 01:29:40	Twilight	54.000	146	25Eta Tau	2.8730	15200.	108	12567	No
GOM_TRA_1PNPDE20040726_013113_000000592028_00489_12567_0031.N1	26-JUL-2004 01:31:13	Twilight	59.000	13	87Alp Tau	0.86700	3800.0	118	12567	No
GOM_TRA_1PNPDE20040726_013319_000000432028_00489_12567_0032.N1	26-JUL-2004 01:33:19	Twilight	43.000	27	24Gam Ori	1.6360	26000.	86	12567	No
GOM_TRA_1PNPDE20040726_013512_000000432028_00489_12567_0033.N1	26-JUL-2004 01:35:12	Twilight	43.000	30	46Eps Ori	1.6940	30000.	86	12567	No
GOM_TRA_1PNPDE20040726_013735_000000502028_00489_12567_0000.N1	26-JUL-2004 01:37:35	Dark	50.000	7	19Bet Ori	0.10000	14000.	100	12567	Yes
GOM_TRA_1PNPDE20040726_013919_000000412028_00489_12567_0001.N1	26-JUL-2004 01:39:19	Dark	40.500	47	2Bet CMa	1.9760	28000.	81	12567	No
GOM_TRA_1PNPDE20040726_014044_000000432028_00489_12567_0002.N1	26-JUL-2004 01:40:44	Dark	42.500	139	9Bet Lep	2.8330	5600.0	85	12567	No
GOM_TRA_1PNPDE20040726_014242_000000392028_00489_12567_0003.N1	26-JUL-2004 01:42:42	Dark	39.000	177	1Zet CMa	3.0220	26000.	78	12567	No
GOM_TRA_1PNPDE20040726_014410_000000402028_00489_12567_0004.N1	26-JUL-2004 01:44:10	Dark	39.500	108	Alp Col	2.6520	15200.	79	12567	No
GOM_TRA_1PNPDE20040726_015052_000000492028_00489_12567_0005.N1	26-JUL-2004 01:50:52	Dark	48.500	157	The1Eri	2.9060	9300.0	97	12567	No
GOM_TRA_1PNPDE20040726_015642_000000582028_00490_12568_0006.N1	26-JUL-2004 01:56:42	Dark	58.000	9	Alp Eri	0.45300	24000.	116	12568	No
GOM_TRA_1PNPDE20040726_015916_000000402028_00490_12568_0007.N1	26-JUL-2004 01:59:16	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	12568	No
GOM_TRA_1PNPDE20040726_020054_000000572028_00490_12568_0008.N1	26-JUL-2004 02:00:54	Dark	56.500	84	Alp Phe	2.3970	4500.0	113	12568	No
GOM_TRA_1PNPDE20040726_020351_000000432028_00490_12568_0009.N1	26-JUL-2004 02:03:51	Twilight	42.500	148	Alp Tuc	2.8780	4100.0	85	12568	No
GOM_TRA_1PNPDE20040726_020717_000000482028_00490_12568_0010.N1	26-JUL-2004 02:07:17	Twilight	47.500	45	Alp Pav	1.9400	26000.	95	12568	No
GOM_TRA_1PNPDE20040726_021020_000000772028_00490_12568_0011.N1	26-JUL-2004 02:10:20	Bright	76.500	18	24Alp PsA	1.1660	9700.0	153	12568	No
GOM_TRA_1PNPDE20040726_021459_000000432028_00490_12568_0012.N1	26-JUL-2004 02:14:59	Bright	43.000	38	20Eps Sgr	1.8360	11000.	86	12568	No
GOM_TRA_1PNPDE20040726_021654_000000412028_00490_12568_0013.N1	26-JUL-2004 02:16:54	Bright	40.500	57	34Sig Sgr	2.0660	26000.	81	12568	No
GOM_TRA_1PNPDE20040726_021834_000000612028_00490_12568_0014.N1	26-JUL-2004 02:18:34	Bright	60.500	142	49Del Cap	2.8500	8900.0	121	12568	No

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



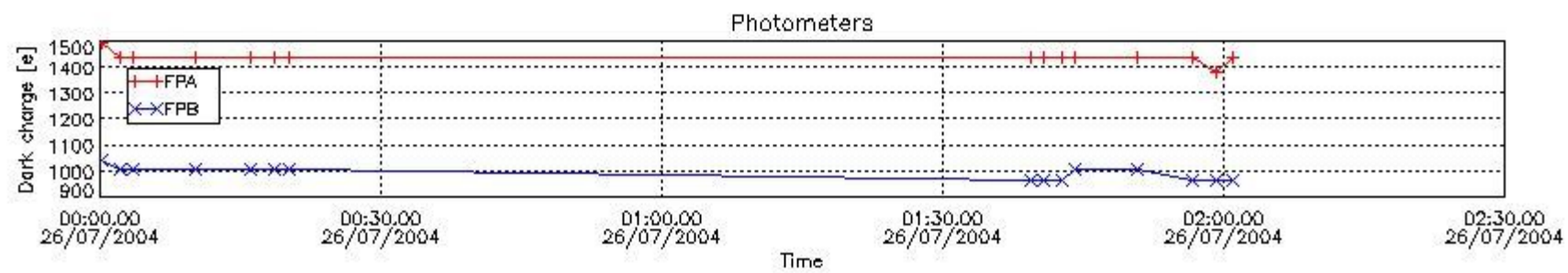
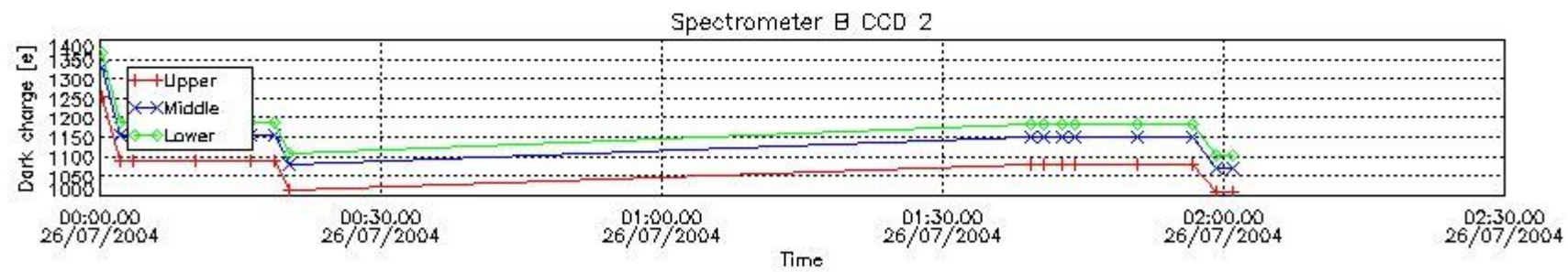
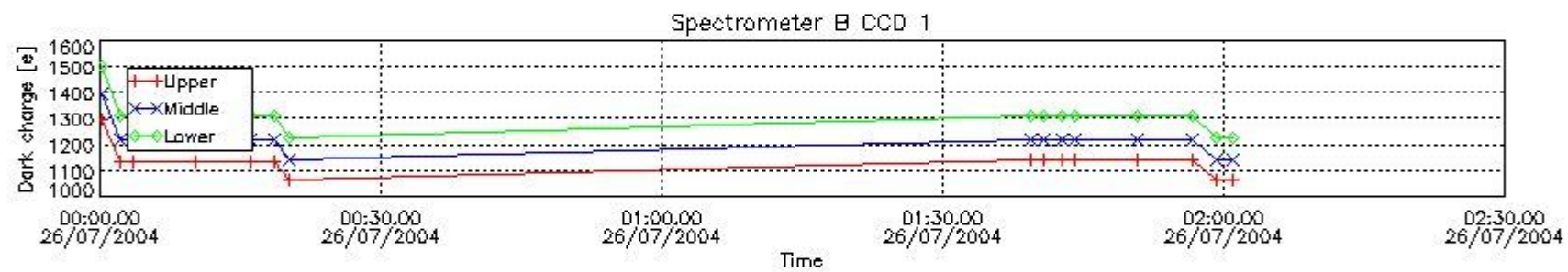
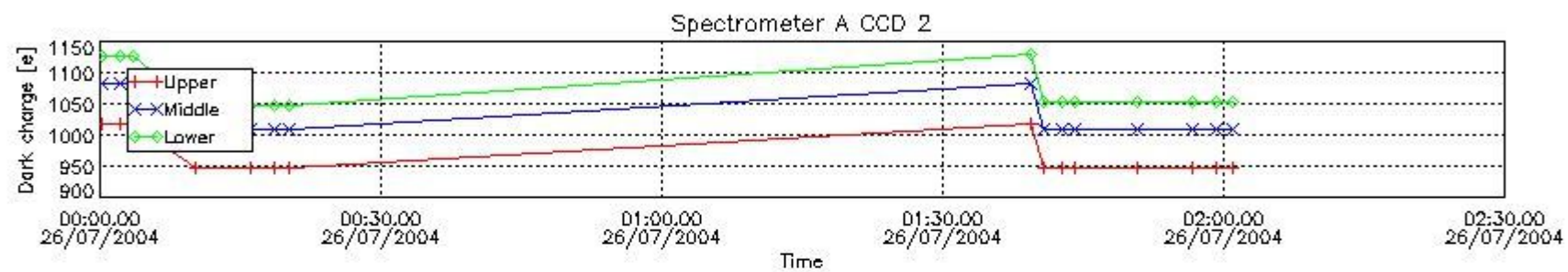
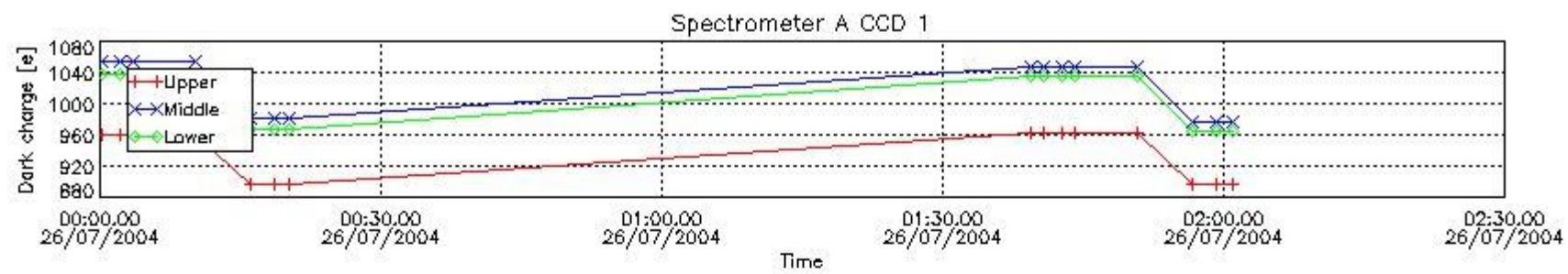
4. Overview of dark signal processing per product

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



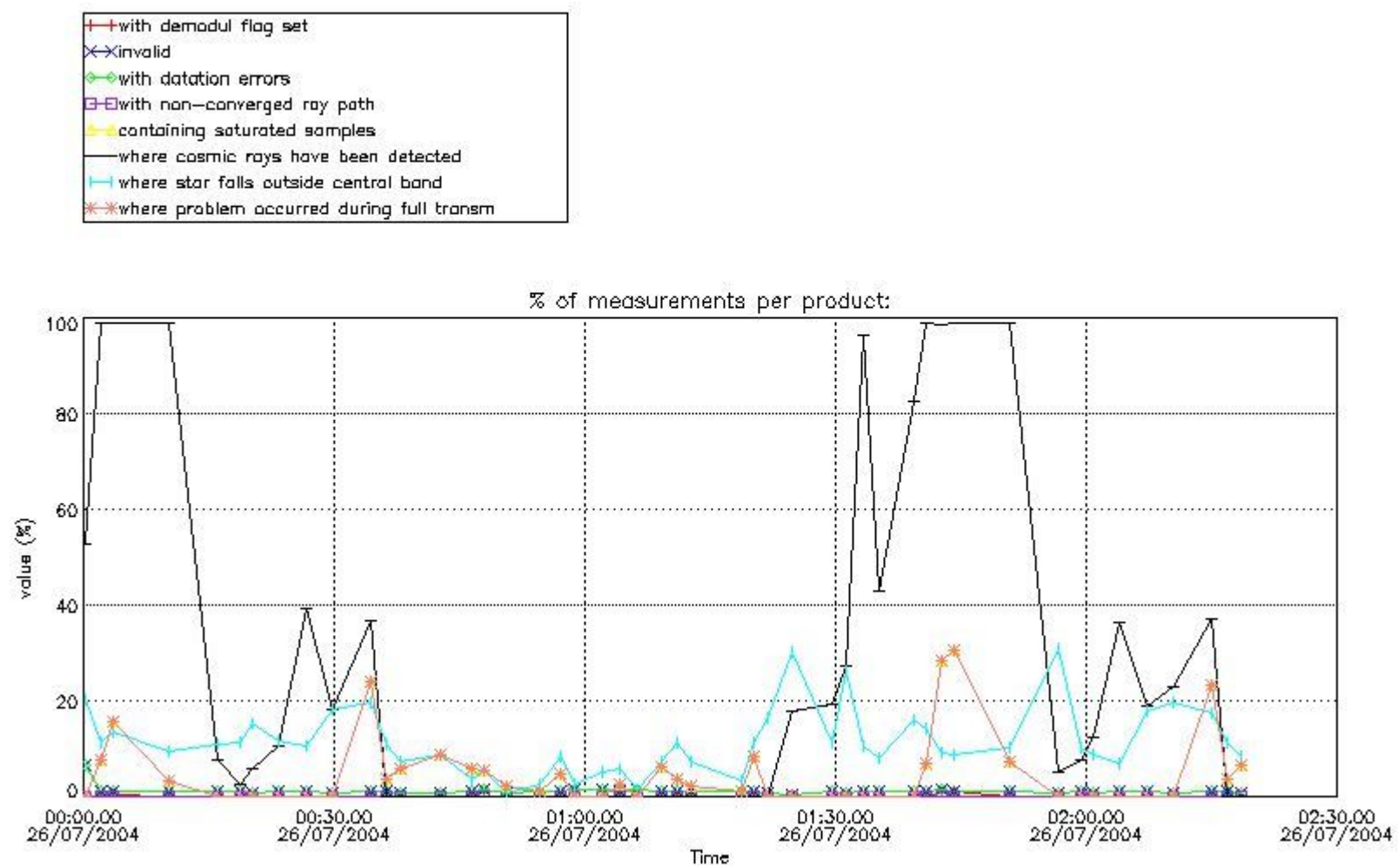
5. Demodulation flag and quality information monitoring

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.

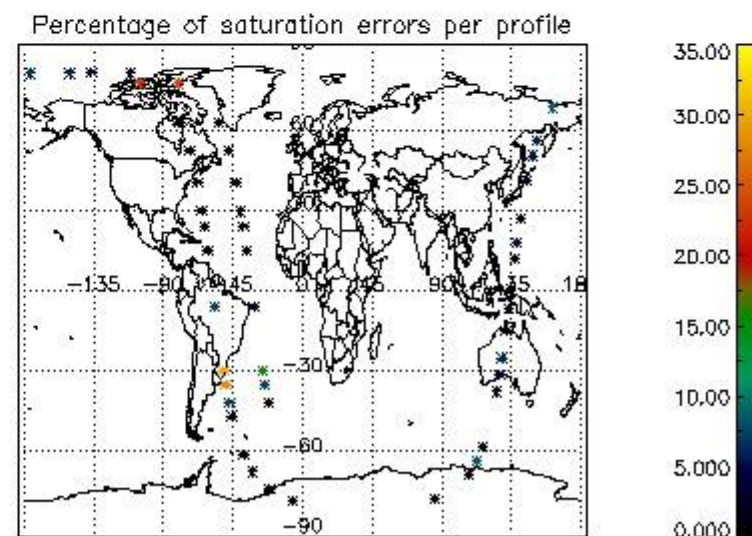
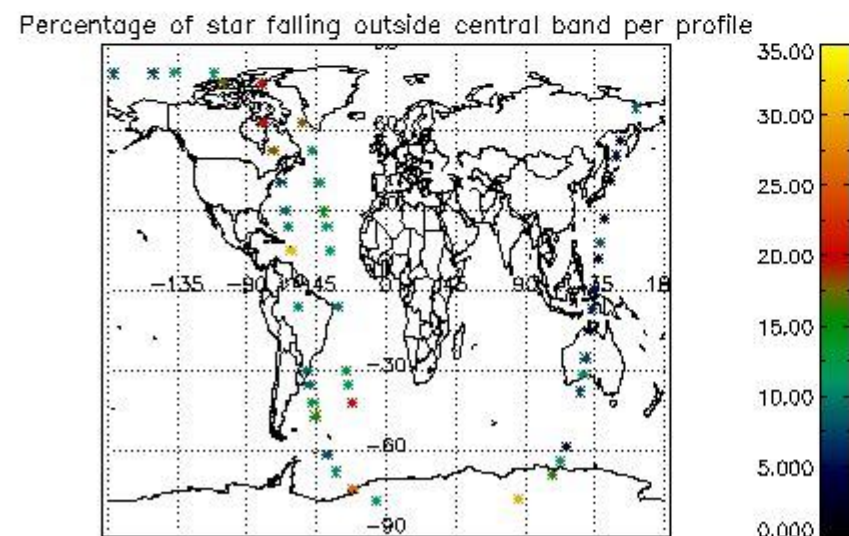
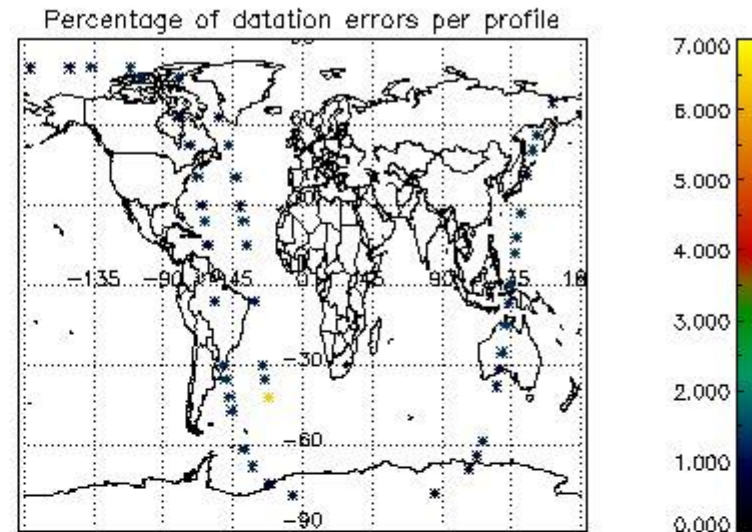
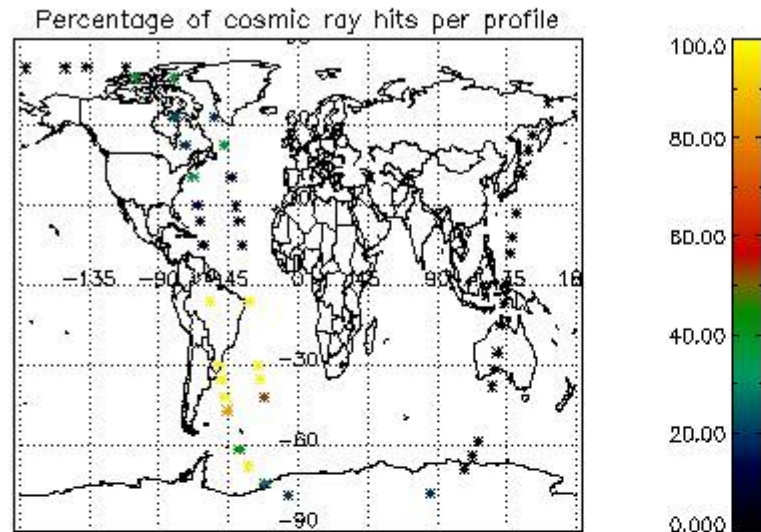
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.7500 %
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)



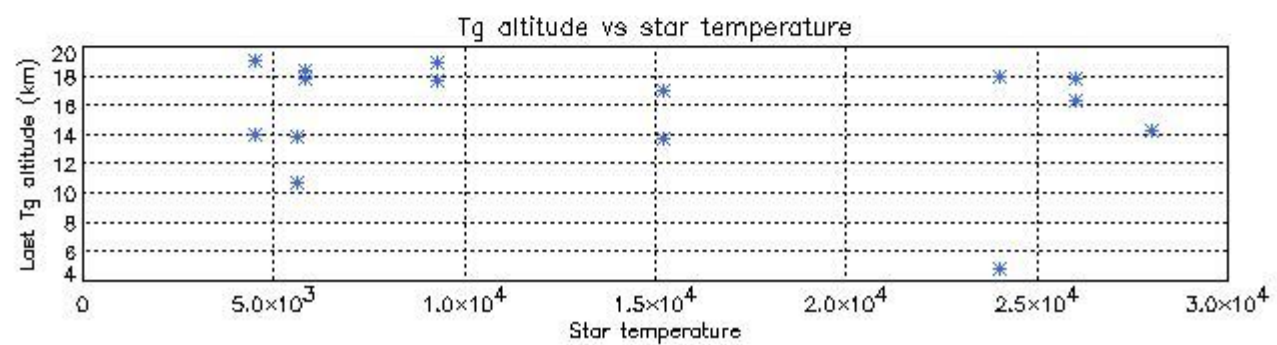
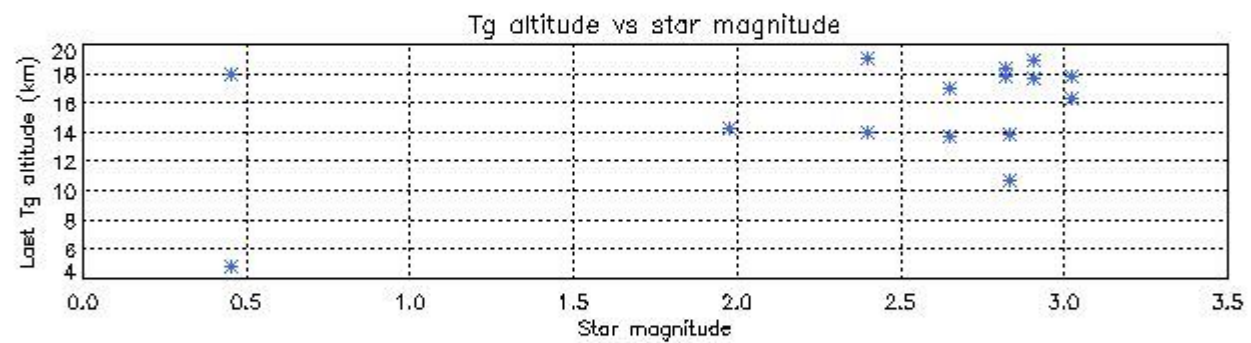
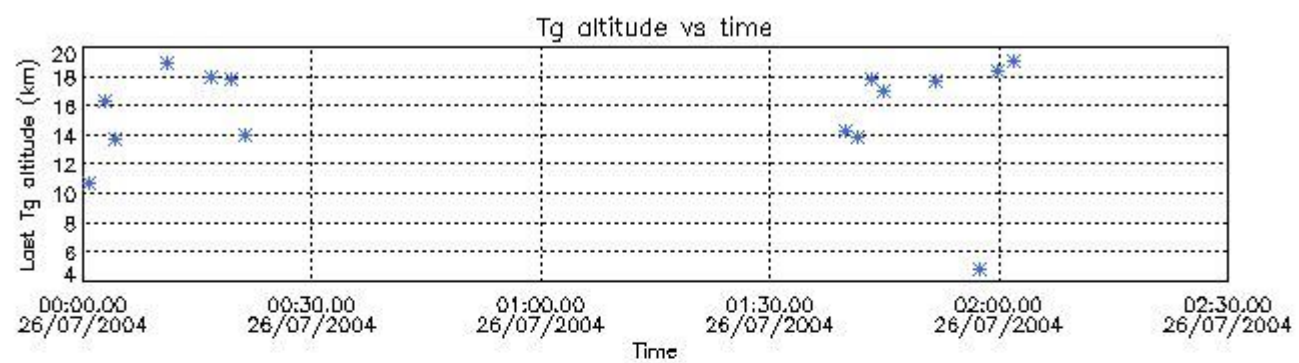
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.476	19.376	14.374
St. deviation:	3.8095	3.9175	3.9327
Maximum:	19.100	26.310	19.342
Minimum:	4.8778	12.006	7.1758
Number of data:	15.000	23.000	10.000

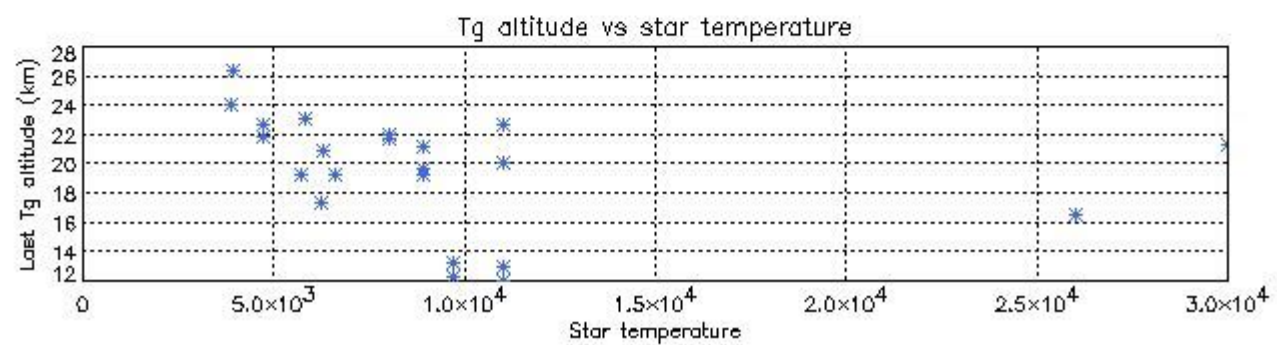
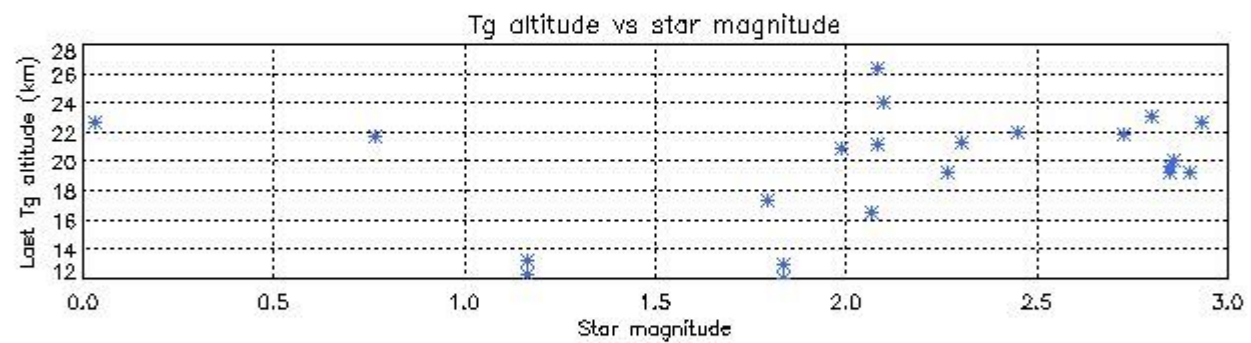
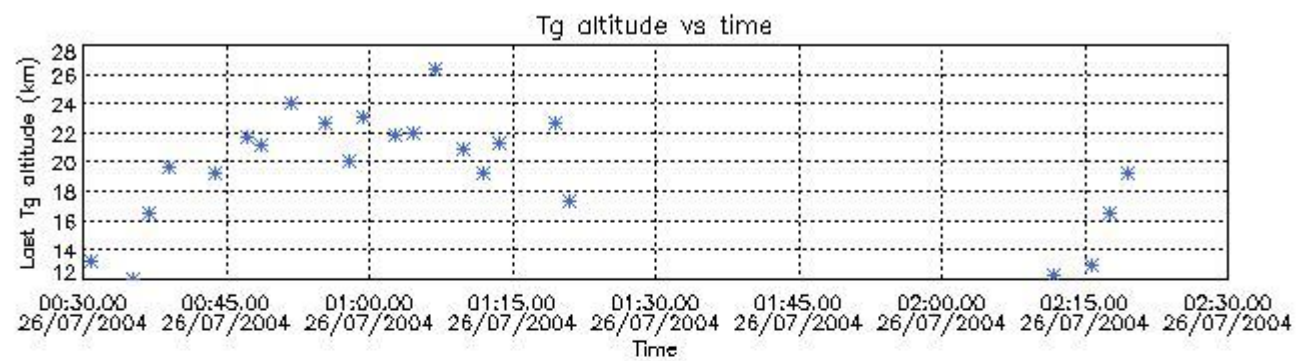
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



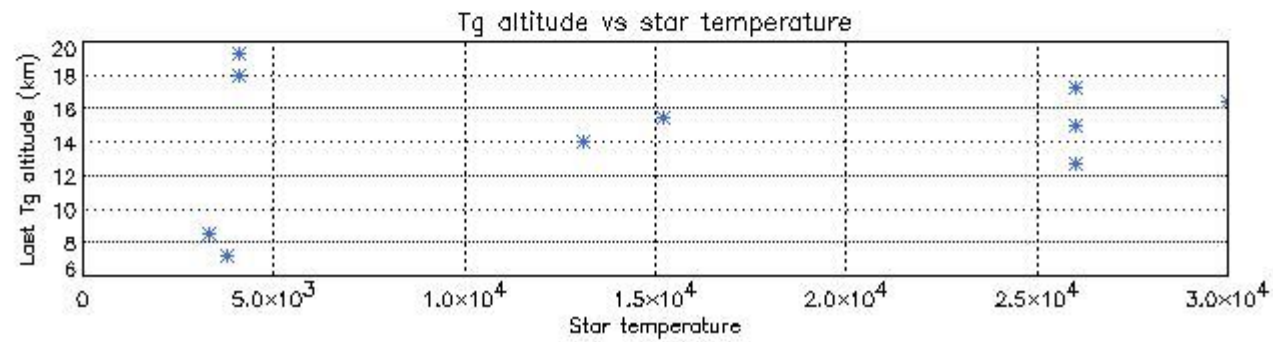
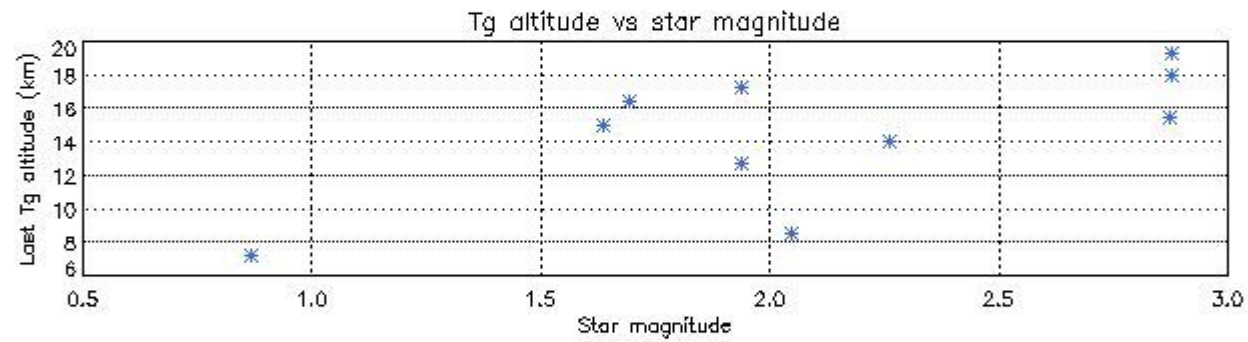
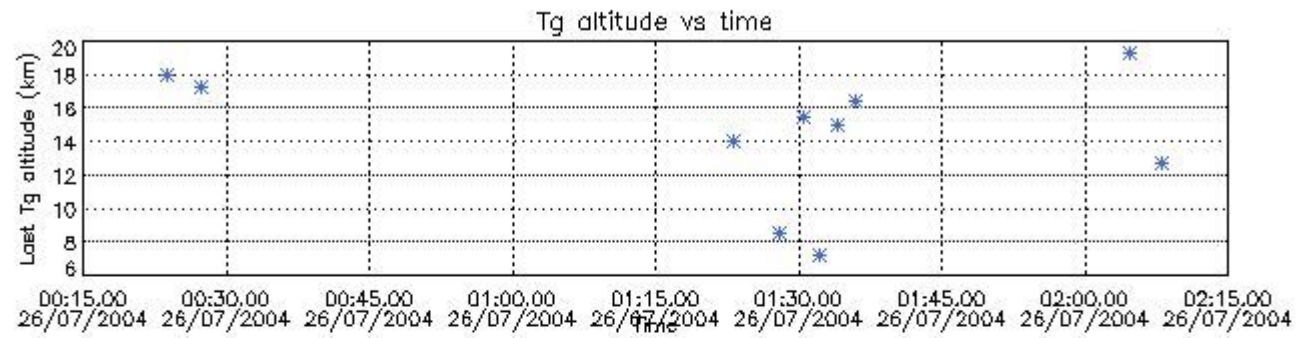
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

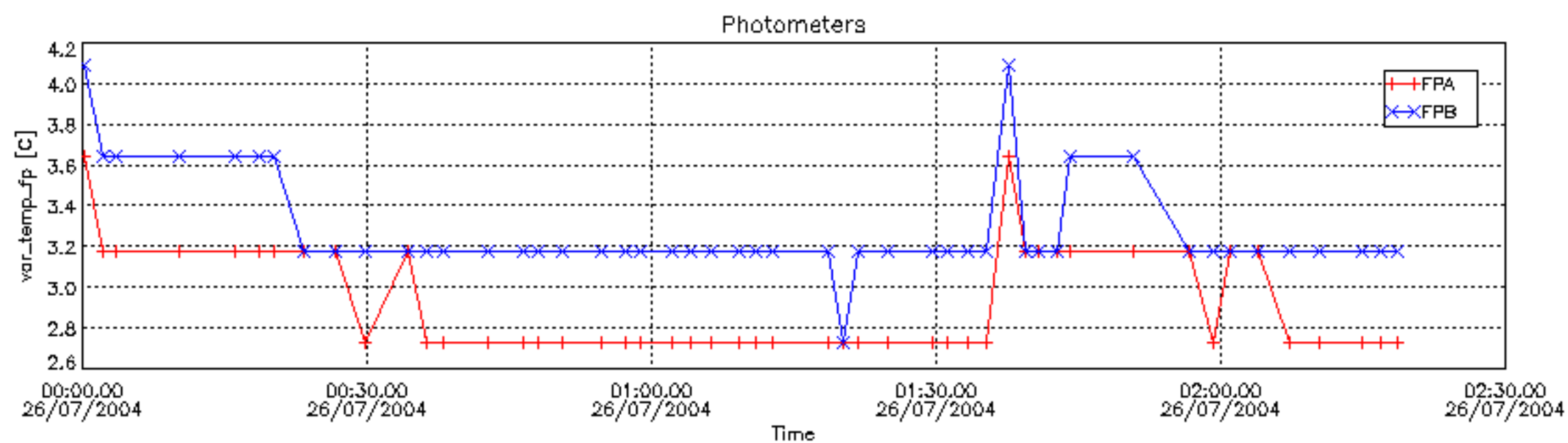
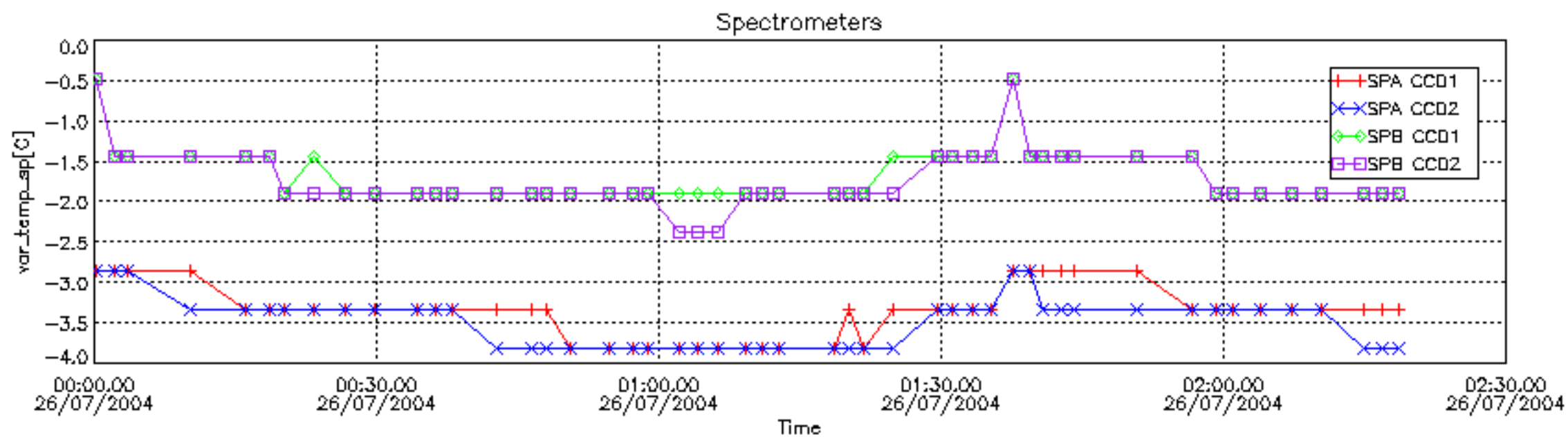
Tangent altitude at which the star is lost

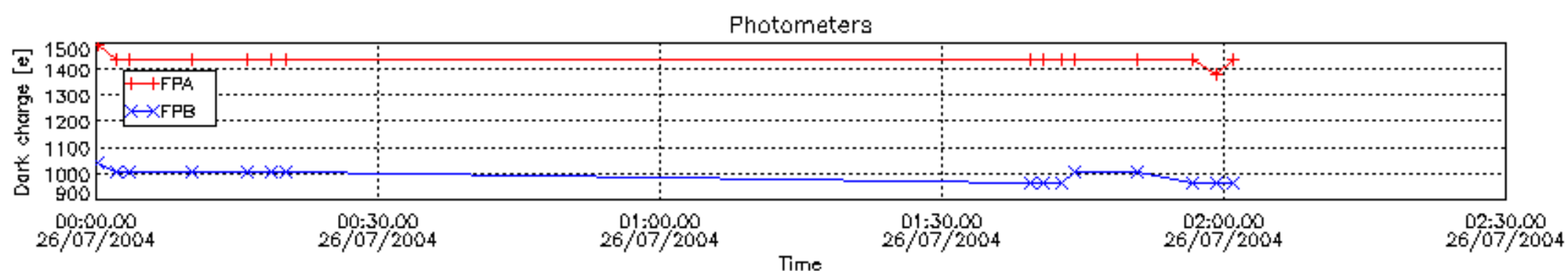
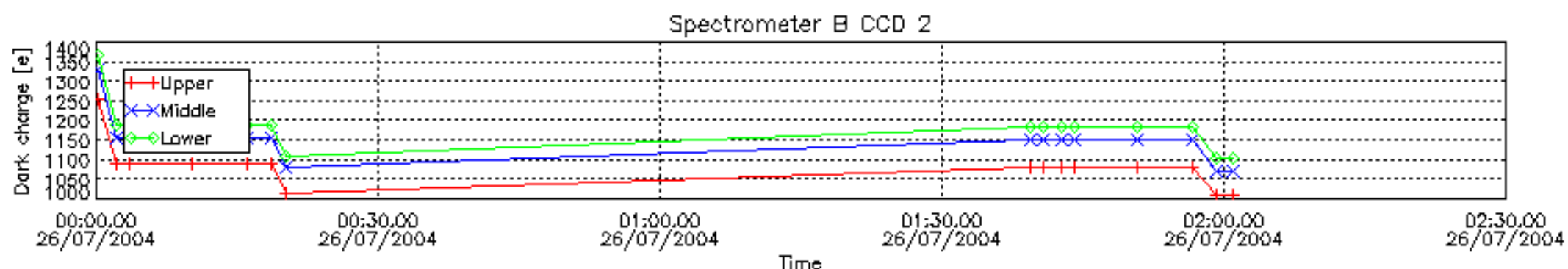
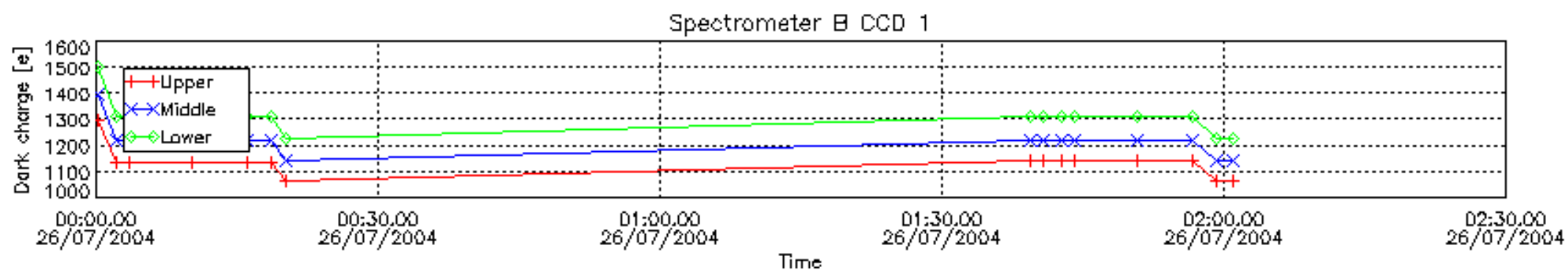
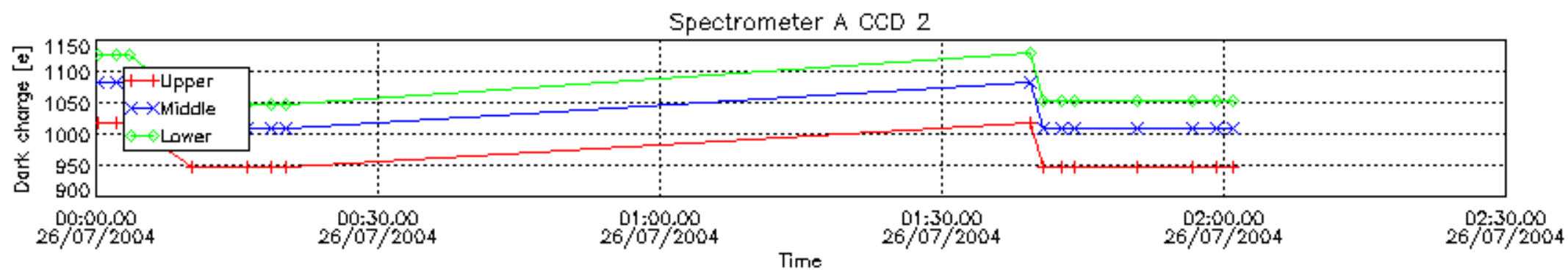
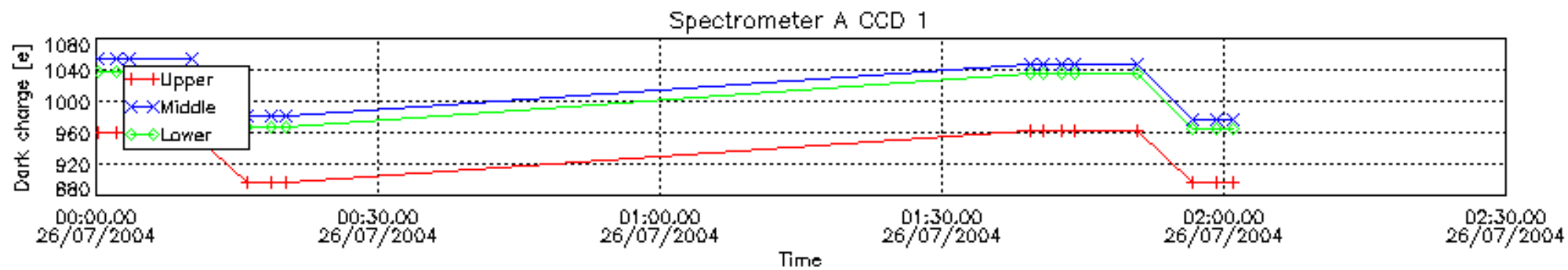


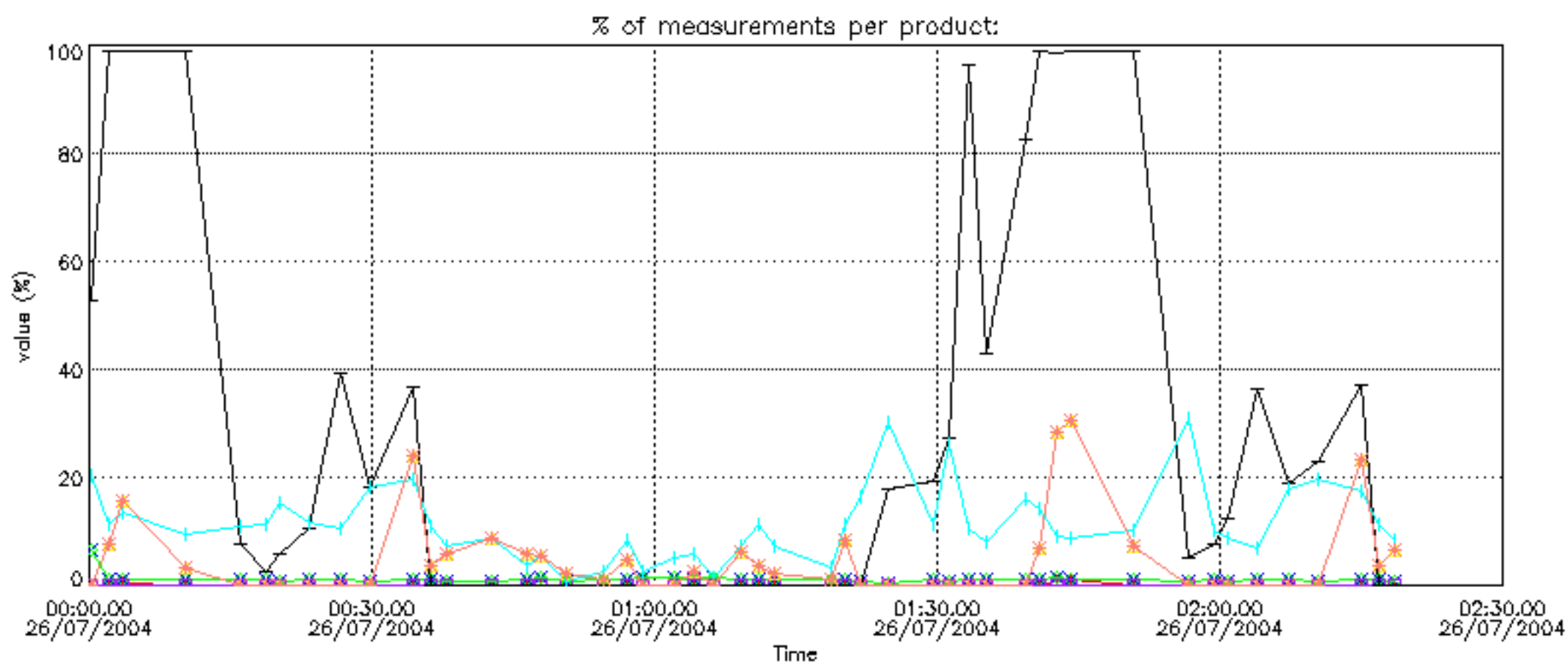
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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

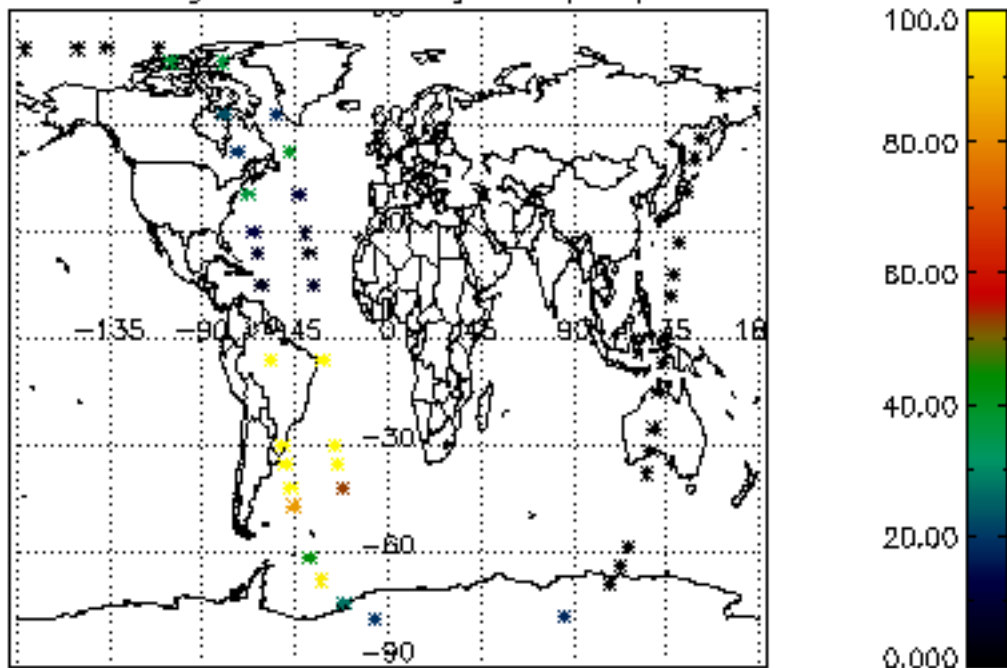
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.4	1446.6	1462.2	1447.9
St. deviation:	7.0279	7.9959	6.4099	6.9237
Maximum:	1635.0	1655.0	1513.0	1493.0
Minimum:	1452.0	1437.0	1427.0	1413.0
Number of data:	18450.	18450.	28950.	28950.



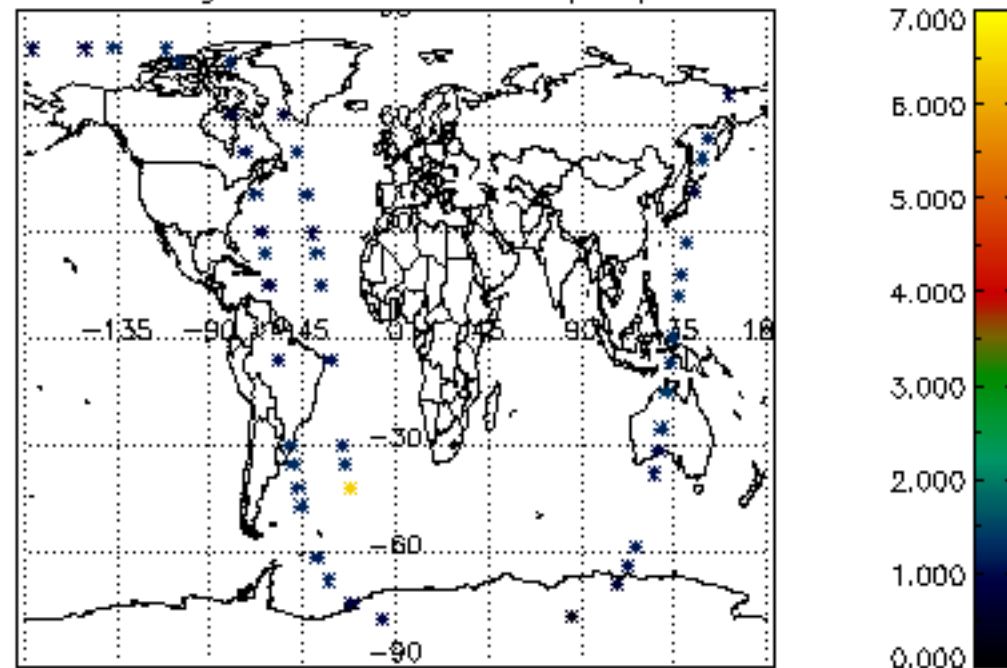




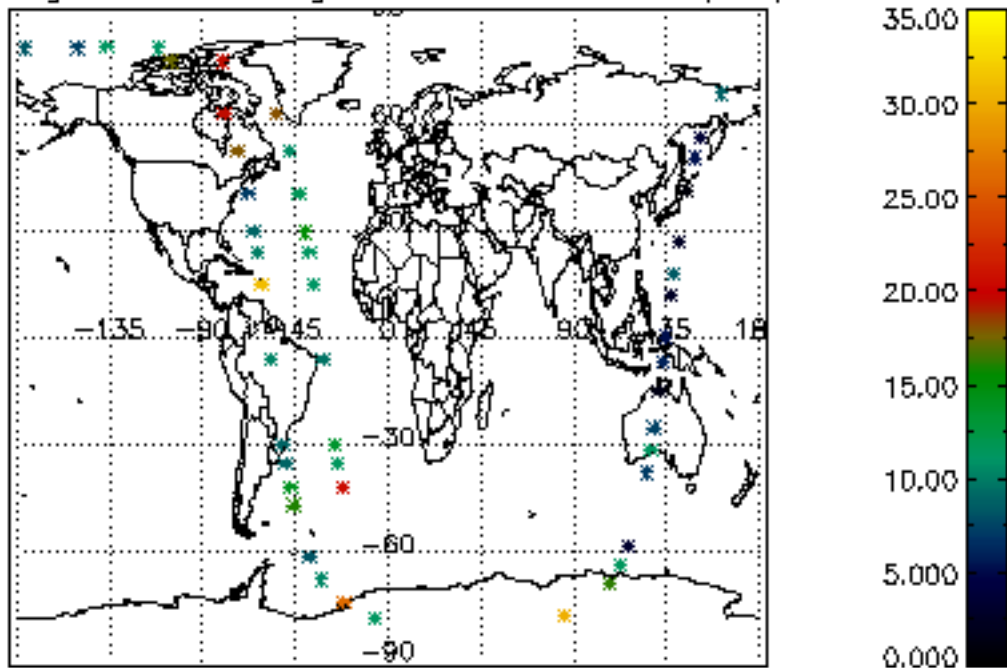
Percentage of cosmic ray hits per profile



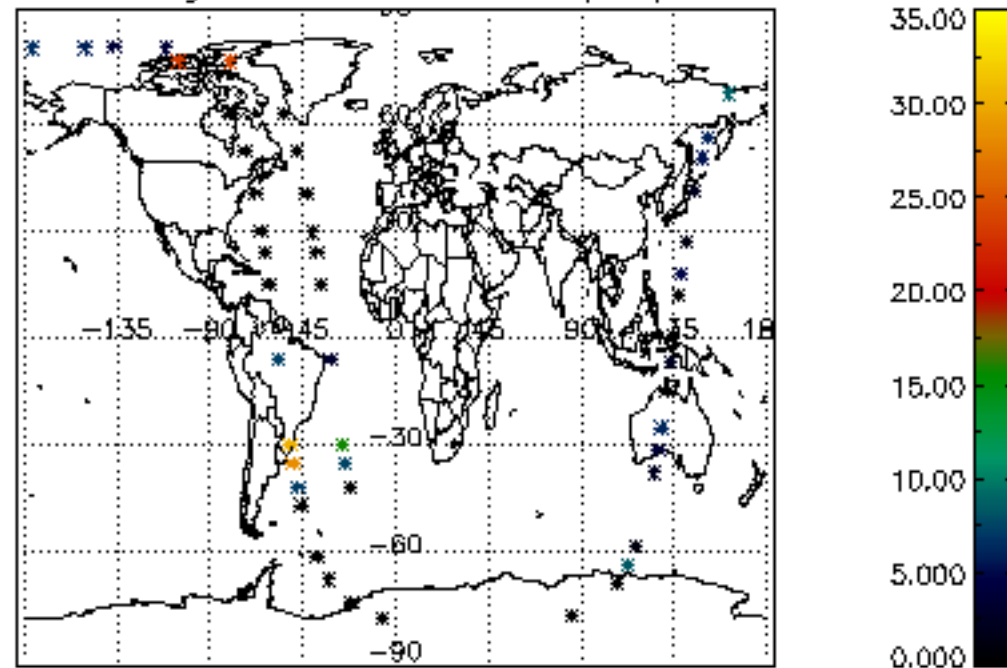
Percentage of datation errors per profile



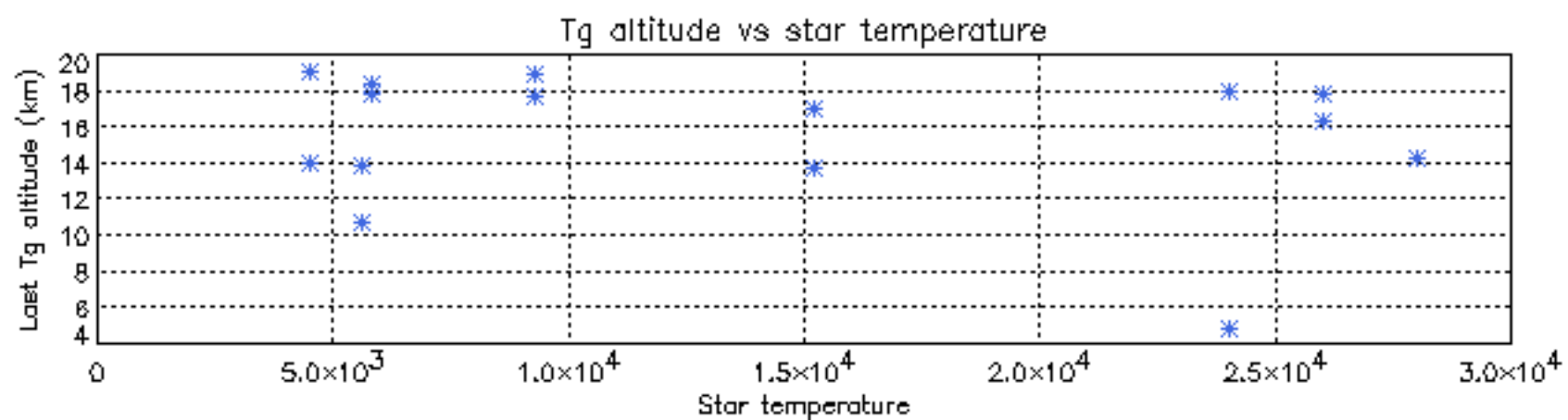
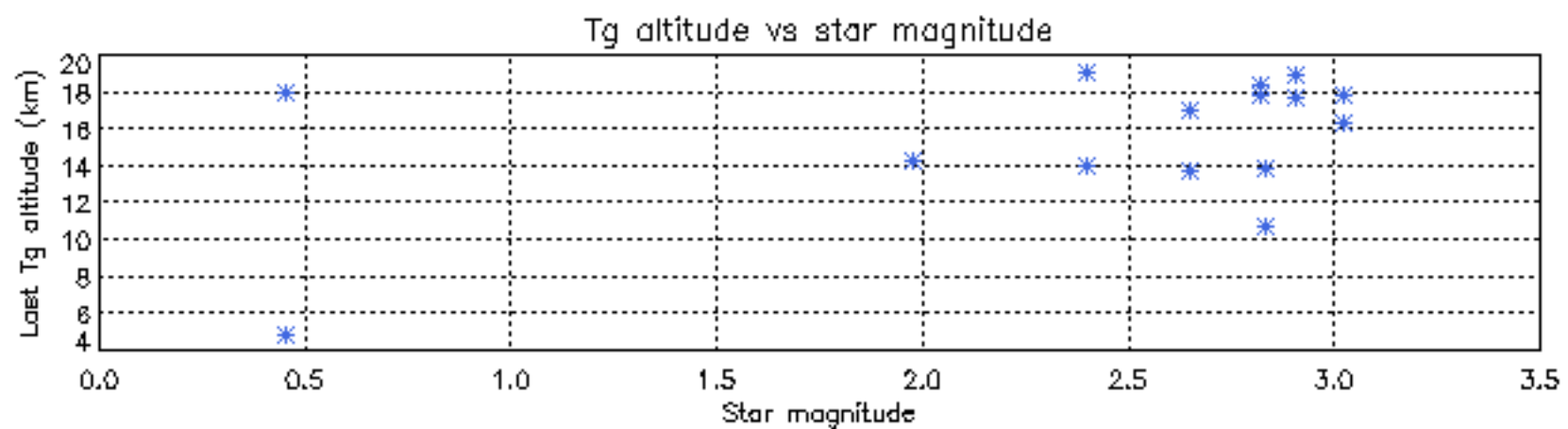
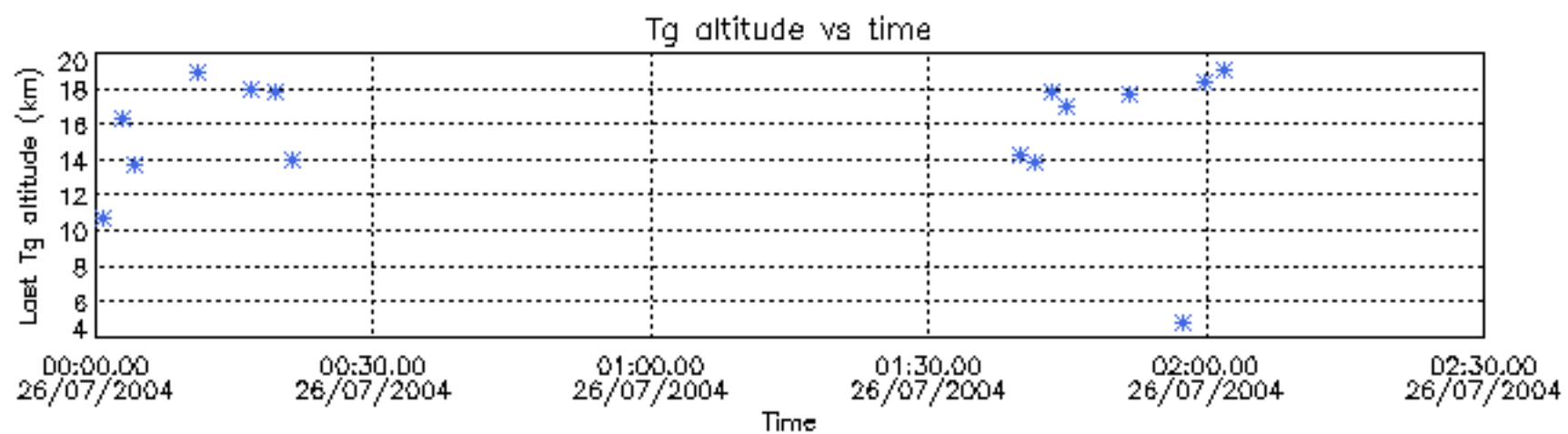
Percentage of star falling outside central band per profile



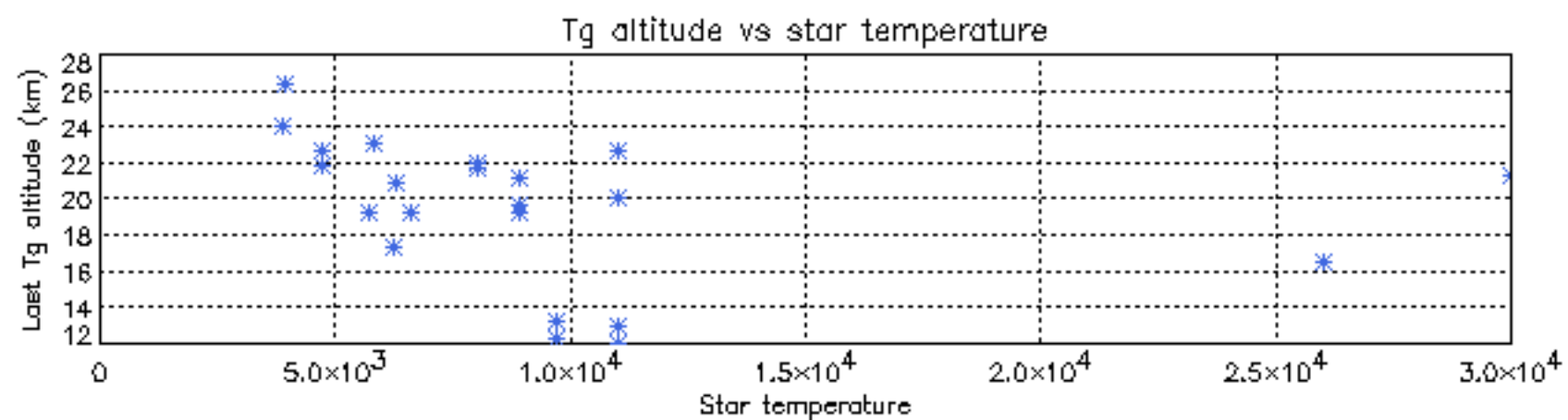
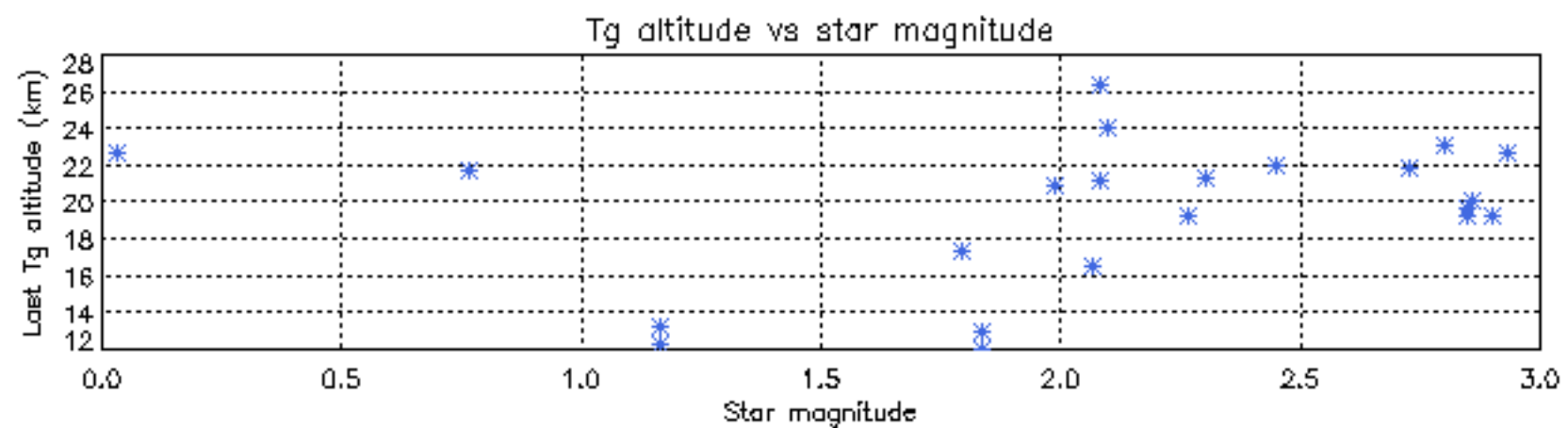
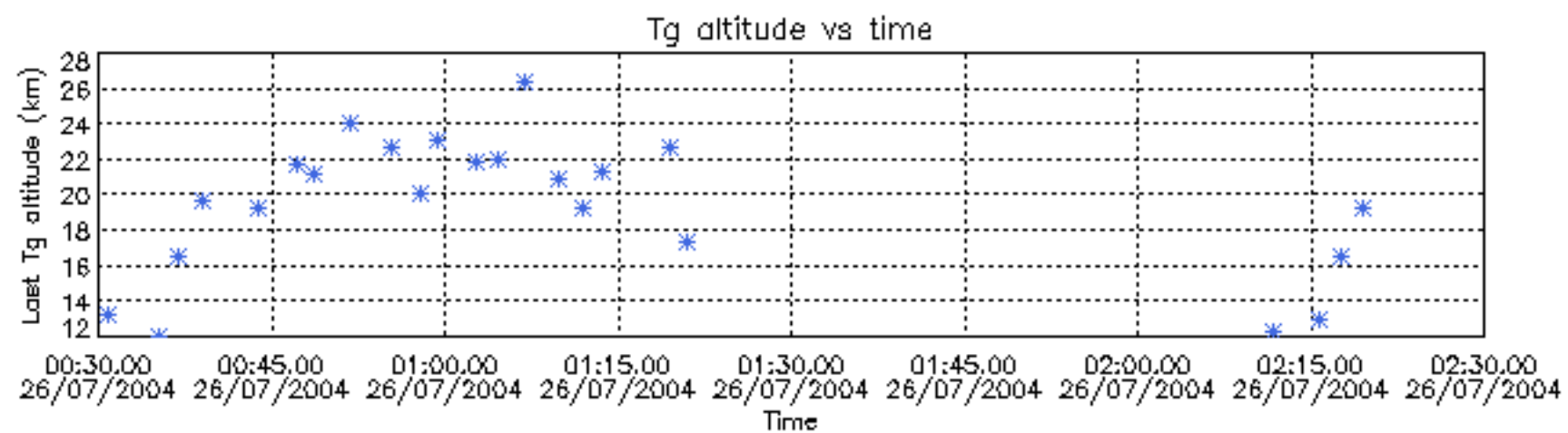
Percentage of saturation errors per profile



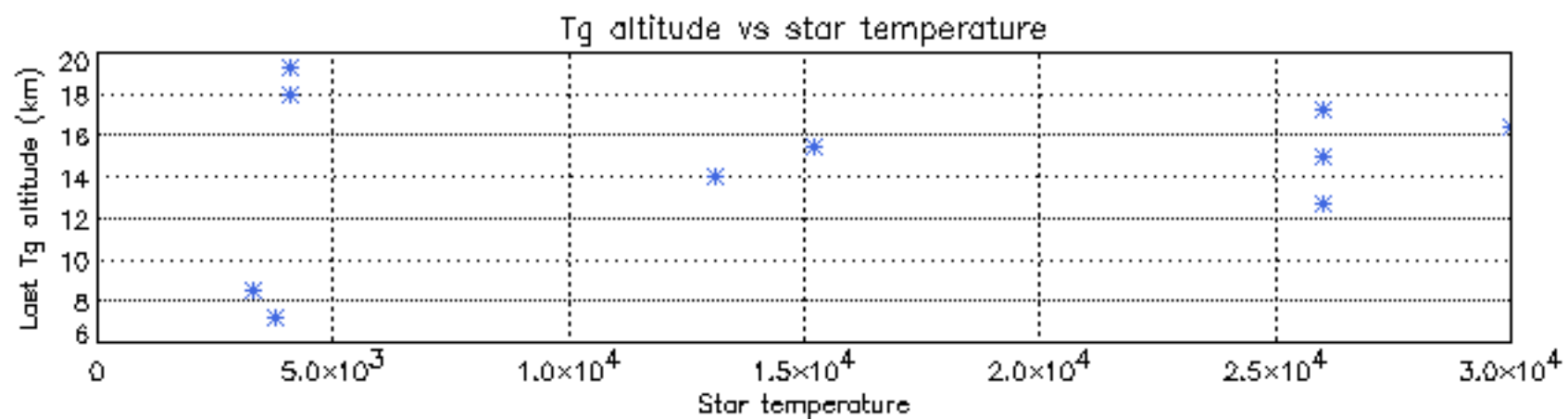
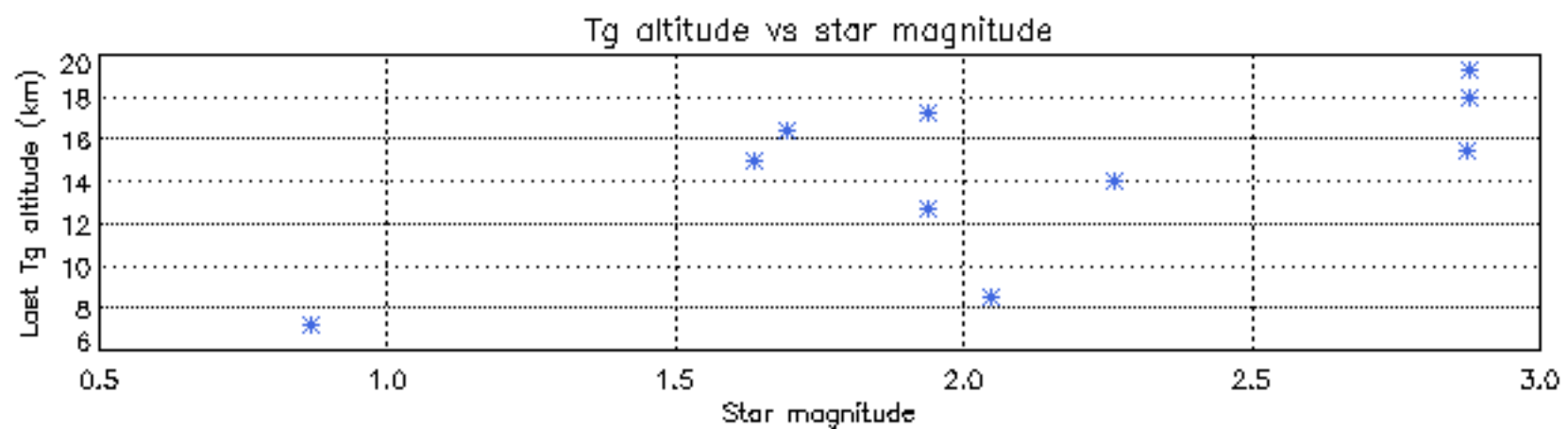
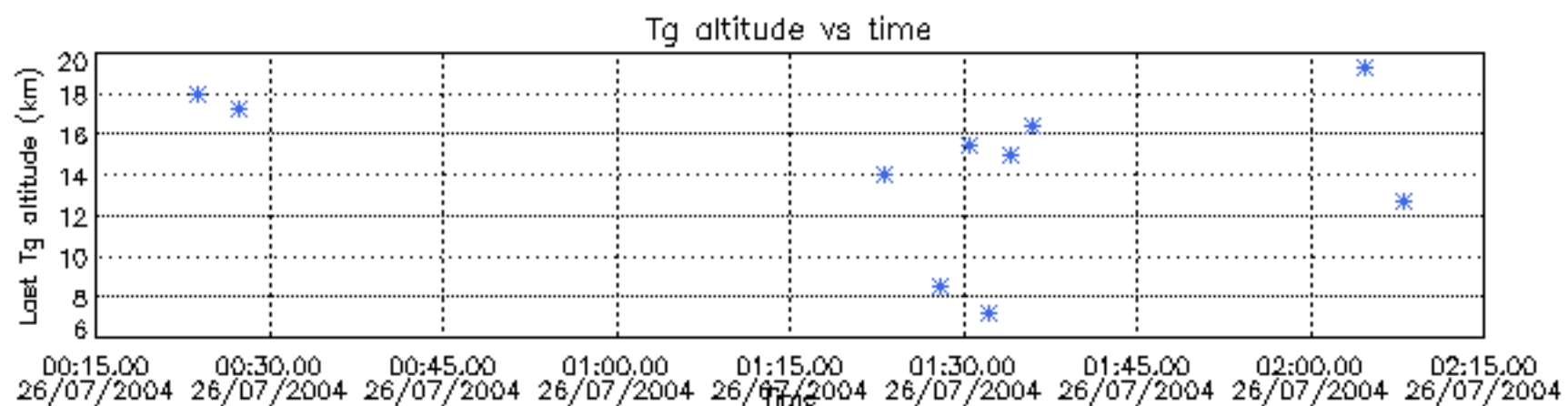
Tangent altitude at which the star is lost



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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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
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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
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
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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
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21; 1271.1; 01-JUL-2004 07:01:06; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;12213
22; 1356.5; 01-JUL-2004 07:02:32; Dark ; 45.5; 116; 19Del Sgr ; 2.70; 4100;occ; 91; 0;12213
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 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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 16;-3084.2; 02-JUL-2004 18:41:42; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;12234
 17;-2844.5; 02-JUL-2004 18:45:41; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;12234
 18;-2713.2; 02-JUL-2004 18:47:53; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;12234
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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
 24;-1773.6; 02-JUL-2004 19:03:32; Bright; 52.5; 73; 57Gam1And ; 2.26; 13100;occ; 105; 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
 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
 37; 805.7; 02-JUL-2004 19:46:32; Dark ; 58.0; 172; Gam Gru ; 3.00; 13100;occ; 116; 0;12235

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 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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 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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7;	-3585.9;	03-JUL-2004	07:58:08;	Bright;	37.0;	133;	40Zet Her	;	2.81;	6000;occ;	74;	0;	12242	
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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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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;	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
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26;	-101.9;	03-JUL-2004	08:56:12;	Dark	;	80.5;	52;	16Bet Cet	;	2.04;	4500;occ;	161;	0;	12242
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31;	814.2;	03-JUL-2004	09:11:28;	Dark	;	60.0;	172;	Gam Gru	;	3.00;	13100;occ;	120;	0;	12243
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11;	-2719.5;	03-JUL-2004	09:53:10;	Bright;	47.5;	89;	5Alp Cep	;	2.45;	8000;occ;	95;	0;	12243	
12;	-2592.2;	03-JUL-2004	09:55:17;	Bright;	38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	12243	
13;	-2272.5;	03-JUL-2004	10:00:37;	Bright;	50.0;	74;	11Bet Cas	;	2.27;	6600;occ;	100;	0;	12243	
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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	
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10;	-1051.8;	22-JUL-2004	03:41:29;	Dark	;	38.0;	30;	46Eps Ori	;	1.69;	30000;occ;	76;	0;	12511
11;	-918.2;	22-JUL-2004	03:43:42;	Dark	;	52.0;	7;	19Bet Ori	;	0.10;	14000;occ;	104;	0;	12511
12;	-777.9;	22-JUL-2004	03:46:03;	Dark	;	44.5;	101;	11Alp Lep	;	2.58;	7000;occ;	89;	0;	12511
13;	-513.4;	22-JUL-2004	03:50:27;	Dark	;	41.5;	108;	Alp Col	;	2.65;	15200;occ;	83;	0;	12511
14;	-385.5;	22-JUL-2004	03:52:35;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12511
15;	-145.8;	22-JUL-2004	03:56:35;	Dark	;	45.5;	157;	The1Eri	;	2.91;	9300;occ;	91;	0;	12511
16;	213.1;	22-JUL-2004	04:02:34;	Dark	;	45.0;	9;	Alp Eri	;	0.45;	24000;occ;	90;	0;	12512
17;	386.6;	22-JUL-2004	04:05:27;	Dark	;	42.0;	135;	Bet Hyi	;	2.82;	5800;occ;	84;	0;	12512
18;	651.6;	22-JUL-2004	04:09:52;	Dark	;	44.0;	148;	Alp Tuc	;	2.88;	4100;occ;	88;	0;	12512
19;	752.3;	22-JUL-2004	04:11:33;	Dark	;	53.5;	63;	Bet Gru	;	2.15;	2800;occ;	107;	0;	12512
20;	838.3;	22-JUL-2004	04:12:59;	Dark	;	54.0;	31;	Alp Gru	;	1.73;	15200;occ;	108;	0;	12512
21;	1013.9;	22-JUL-2004	04:15:55;	Dark	;	78.5;	18;	24Alp PsA	;	1.17;	9700;occ;	157;	0;	12512
22;	1262.3;	22-JUL-2004	04:20:03;	Dark	;	40.0;	178;	Iot1Sco	;	3.02;	6550;occ;	80;	0;	12512
23;	1336.5;	22-JUL-2004	04:21:17;	Dark	;	43.0;	38;	20Eps Sgr	;	1.84;	11000;occ;	86;	0;	12512
24;	1450.8;	22-JUL-2004	04:23:11;	Bright;	40.0;	57;	34Sig Sgr	;	2.07;	26000;occ;	80;	0;	12512	
25;	1555.7;	22-JUL-2004	04:24:56;	Bright;	68.5;	142;	49Del Cap	;	2.85;	8900;occ;	137;	0;	12512	
26;	2009.5;	22-JUL-2004	04:32:30;	Bright;	38.5;	126;	60Bet Oph	;	2.77;	4250;occ;	77;	0;	12512	
27;	2144.6;	22-JUL-2004	04:34:45;	Bright;	38.5;	168;	17Zet Aql	;	2.99;	11000;occ;	77;	0;	12512	
28;	2568.1;	22-JUL-2004	04:41:49;	Bright;	41.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	82;	0;	12512	
29;	2733.3;	22-JUL-2004	04:44:34;	Bright;	40.0;	144;	18Del Cyg	;	2.86;	11000;occ;	80;	0;	12512	
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31;	2995.2;	22-JUL-2004	04:48:56;	Bright;	38.5;	119;	14Eta Dra	;	2.73;	4700;occ;	77;	0;	12512	
32;	3154.4;	22-JUL-2004	04:51:35;	Bright;	44.0;	89;	5Alp Cep	;	2.45;	8000;occ;	88;	0;	12512	
33;	3440.9;	22-JUL-2004	04:56:22;	Bright;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	12512	
34;	3584.4;	22-JUL-2004	04:58:45;	Bright;	53.5;	74;	11Bet Cas	;	2.27;	6600;occ;	107;	0;	12512	
35;	3683.9;	22-JUL-2004	05:00:25;	Bright;	3.5;	76;	27Gam Cas	;	2.30;	30000;occ;	7;	0;	12512	
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2;	-2017.0;	22-JUL-2004	05:06:00;	Bright;	45.0;	160;	23Gam Per	;	2.93;	4700;occ;	90;	0;	12512	
3;	-1930.4;	22-JUL-2004	05:07:26;	Bright;	47.0;	35;	33Alp Per	;	1.79;	6250;occ;	94;	0;	12512	
4;	-1822.8;	22-JUL-2004	05:09:14;	Bright;	72.0;	73;	57Gam1And	;	2.26;	13100;occ;	144;	0;	12512	
5;	-1643.4;	22-JUL-2004	05:12:13;	Dark	;	138.0;	53;	43Bet And	;	2.05;	3300;occ;	276;	0;	12512
6;	-1388.5;	22-JUL-2004	05:16:28;	Dark	;	50.0;	146;	25Eta Tau	;	2.87;	15200;occ;	100;	0;	12512
7;	-1294.9;	22-JUL-2004	05:18:02;	Dark	;	53.0;	13;	87Alp Tau	;	0.87;	3800;occ;	106;	0;	12512
8;	-1167.4;	22-JUL-2004	05:20:09;	Dark	;	39.0;	27;	24Gam Ori	;	1.64;	26000;occ;	78;	0;	12512
9;	-1051.9;	22-JUL-2004	05:22:05;	Dark	;	39.0;	30;	46Eps Ori	;	1.69;	30000;occ;	78;	0;	12512
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11;	-775.2;	22-JUL-2004	05:26:42;	Dark	;	43.0;	101;	11Alp Lep	;	2.58;	7000;occ;	86;	0;	12512
12;	-513.1;	22-JUL-2004	05:31:04;	Dark	;	40.5;	108;	Alp Col	;	2.65;	15200;occ;	81;	0;	12512
13;	-385.0;	22-JUL-2004	05:33:12;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12512
14;	-145.8;	22-JUL-2004	05:37:11;	Dark	;	46.0;	157;	The1Eri	;	2.91;	9300;occ;	92;	0;	12512
15;	214.0;	22-JUL-2004	05:43:11;	Dark	;	44.0;	9;	Alp Eri	;	0.45;	24000;occ;	88;	0;	12513
16;	388.7;	22-JUL-2004	05:46:05;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	12513
17;	653.1;	22-JUL-2004	05:50:30;	Dark	;	46.0;	148;	Alp Tuc	;	2.88;	4100;occ;	92;	0;	12513
18;	753.4;	22-JUL-2004	05:52:10;	Dark	;	53.0;	63;	Bet Gru	;	2.15;	2800;occ;	106;	0;	12513
19;	839.1;	22-JUL-2004	05:53:36;	Dark	;	47.5;	31;	Alp Gru	;	1.73;	15200;occ;	95;	0;	12513
20;	1012.6;	22-JUL-2004	05:56:29;	Dark	;	84.5;	18;	24Alp PsA	;	1.17;	9700;occ;	169;	0;	12513
21;	1262.5;	22-JUL-2004	06:00:39;	Dark	;	40.5;	178;	Iot1Sco	;	3.02;	6550;occ;	81;	0;	12513
22;	1337.9;	22-JUL-2004	06:01:55;	Dark	;	43.5;	38;	20Eps Sgr	;	1.84;	11000;occ;	87;	0;	12513
23;	1451.5;	22-JUL-2004	06:03:48;	Bright;	40.0;	57;	34Sig Sgr	;	2.07;	26000;occ;	80;	0;	12513	
24;	1556.0;	22-JUL-2004	06:05:33;	Bright;	65.0;	142;	49Del Cap	;	2.85;	8900;occ;	130;	0;	12513	
25;	2010.3;	22-JUL-2004	06:13:07;	Bright;	38.0;	126;	60Bet Oph	;	2.77;	4250;occ;	76;	0;	12513	
26;	2144.9;	22-JUL-2004	06:15:22;	Bright;	40.0;	168;	17Zet Aql	;	2.99;	11000;occ;	80;	0;	12513	
27;	2568.2;	22-JUL-2004	06:22:25;	Bright;	42.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	84;	0;	12513	
28;	2733.4;	22-JUL-2004	06:25:10;	Bright;	40.0;	144;	18Del Cyg	;	2.86;	11000;occ;	80;	0;	12513	
29;	2843.1;	22-JUL-2004	06:27:00;	Bright;	47.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	95;	0;	12513	
30;	2995.7;	22-JUL-2004	06:29:32;	Bright;	38.5;	119;	14Eta Dra	;	2.73;	4700;occ;	77;	0;	12513	
31;	3154.2;	22-JUL-2004	06:32:11;	Bright;	43.5;	89;	5Alp Cep	;	2.45;	8000;occ;	87;	0;	12513	
32;	3441.1;	22-JUL-2004	06:36:58;	Bright;	38.0;	49;	1Alp UMi	;	1.99;	6300;occ;	76;	0;	12513	
33;	3584.2;	22-JUL-2004	06:39:21;	Bright;	52.0;	74;	11Bet Cas	;	2.27;	6600;occ;	104;	0;	12513	

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 2;-2353.1; 22-JUL-2004 06:41:00; Bright; 51.0; 76; 27Gam Cas ; 2.30; 30000;occ; 102; 0;12513
 3;-2017.2; 22-JUL-2004 06:46:36; Bright; 47.0; 160; 23Gam Per ; 2.93; 4700;occ; 94; 0;12513
 4;-1929.9; 22-JUL-2004 06:48:03; Bright; 47.5; 35; 33Alp Per ; 1.79; 6250;occ; 95; 0;12513
 5;-1823.1; 22-JUL-2004 06:49:50; Bright; 69.0; 73; 57Gam1And ; 2.26; 13100;occ; 138; 0;12513
 6;-1643.5; 22-JUL-2004 06:52:49; Dark ; 170.5; 53; 43Bet And ; 2.05; 3300;occ; 341; 0;12513
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 8;-1293.5; 22-JUL-2004 06:58:39; Dark ; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;12513
 9;-1167.3; 22-JUL-2004 07:00:45; Dark ; 39.5; 27; 24Gam Ori ; 1.64; 26000;occ; 79; 0;12513
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 11; -914.8; 22-JUL-2004 07:04:58; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;12513
 12; -774.6; 22-JUL-2004 07:07:18; Dark ; 42.5; 101; 11Alp Lep ; 2.58; 7000;occ; 85; 0;12513
 13; -512.9; 22-JUL-2004 07:11:40; Dark ; 40.5; 108; Alp Col ; 2.65; 15200;occ; 81; 0;12513
 14; -384.5; 22-JUL-2004 07:13:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12513
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 16; 214.8; 22-JUL-2004 07:23:48; Dark ; 56.0; 9; Alp Eri ; 0.45; 24000;occ; 112; 0;12514
 17; 389.5; 22-JUL-2004 07:26:42; Dark ; 40.5; 135; Bet Hyi ; 2.82; 5800;occ; 81; 0;12514
 18; 653.6; 22-JUL-2004 07:31:06; Dark ; 45.0; 148; Alp Tuc ; 2.88; 4100;occ; 90; 0;12514
 19; 754.4; 22-JUL-2004 07:32:47; Dark ; 65.0; 63; Bet Gru ; 2.15; 2800;occ; 130; 0;12514
 20; 839.8; 22-JUL-2004 07:34:12; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;12514
 21; 1013.5; 22-JUL-2004 07:37:06; Dark ; 94.5; 18; 24Alp PsA ; 1.17; 9700;occ; 189; 0;12514
 22; 1262.6; 22-JUL-2004 07:41:15; Dark ; 41.0; 178; Iot1Sco ; 3.02; 6550;occ; 82; 0;12514
 23; 1338.0; 22-JUL-2004 07:42:31; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;12514
 24; 1452.1; 22-JUL-2004 07:44:25; Bright; 38.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 77; 0;12514
 25; 1556.1; 22-JUL-2004 07:46:09; Bright; 66.5; 142; 49Del Cap ; 2.85; 8900;occ; 133; 0;12514

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 5;-3193.5; 22-JUL-2004 08:07:35; Bright; 47.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 95; 0;12514
 6;-3040.0; 22-JUL-2004 08:10:09; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;12514
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 12;-1929.3; 22-JUL-2004 08:28:39; Bright; 47.0; 35; 33Alp Per ; 1.79; 6250;occ; 94; 0;12514
 13;-1823.0; 22-JUL-2004 08:30:26; Bright; 67.0; 73; 57Gam1And ; 2.26; 13100;occ; 134; 0;12514
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 22; -383.9; 22-JUL-2004 08:54:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12514
 23; -144.1; 22-JUL-2004 08:58:24; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;12514
 24; 215.5; 22-JUL-2004 09:04:24; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;12515
 25; 389.7; 22-JUL-2004 09:07:18; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;12515
 26; 654.6; 22-JUL-2004 09:11:43; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;12515
 27; 754.9; 22-JUL-2004 09:13:23; Dark ; 57.0; 63; Bet Gru ; 2.15; 2800;occ; 114; 0;12515
 28; 840.4; 22-JUL-2004 09:14:49; Dark ; 52.5; 31; Alp Gru ; 1.73; 15200;occ; 105; 0;12515
 29; 1014.5; 22-JUL-2004 09:17:43; Dark ; 84.5; 18; 24Alp PsA ; 1.17; 9700;occ; 169; 0;12515
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11;-1929.2; 22-JUL-2004 10:09:15; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;12515
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13;-1643.8; 22-JUL-2004 10:14:01; Dark ; 146.0; 53; 43Bet And ; 2.05; 3300;occ; 292; 0;12515
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15;-1293.3; 22-JUL-2004 10:19:51; Dark ; 57.0; 13; 87Alp Tau ; 0.87; 3800;occ; 114; 0;12515
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17;-1053.6; 22-JUL-2004 10:23:51; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;12515
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21; -383.4; 22-JUL-2004 10:35:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12515
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21; -814.7; 31-JUL-2004 17:27:28; Dark ; 44.5; 1; 9Alp CMA ; -1.44; 11000;occ; 89; 0;12648
22; -734.3; 31-JUL-2004 17:28:48; Dark ; 42.5; 101; 11Alp Lep ; 2.58; 7000;occ; 85; 0;12648
23; -581.1; 31-JUL-2004 17:31:21; Dark ; 39.5; 177; 1Zet CMA ; 3.02; 26000;occ; 79; 0;12648
24; -482.6; 31-JUL-2004 17:33:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12648
25; -209.6; 31-JUL-2004 17:37:33; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;12648
26; -25.9; 31-JUL-2004 17:40:37; Dark ; 48.0; 157; The1Eri ; 2.91; 9300;occ; 96; 0;12648
27; 305.4; 31-JUL-2004 17:46:08; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;12649
28; 421.3; 31-JUL-2004 17:48:04; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;12649
29; 590.5; 31-JUL-2004 17:50:53; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;12649
30; 716.2; 31-JUL-2004 17:52:59; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;12649
31; 917.5; 31-JUL-2004 17:56:20; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;12649

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