

GOMOS Daily Report 29-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	31JUL2004 05:01:28
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (29JUL2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (30JUL2004 00:00:00)

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

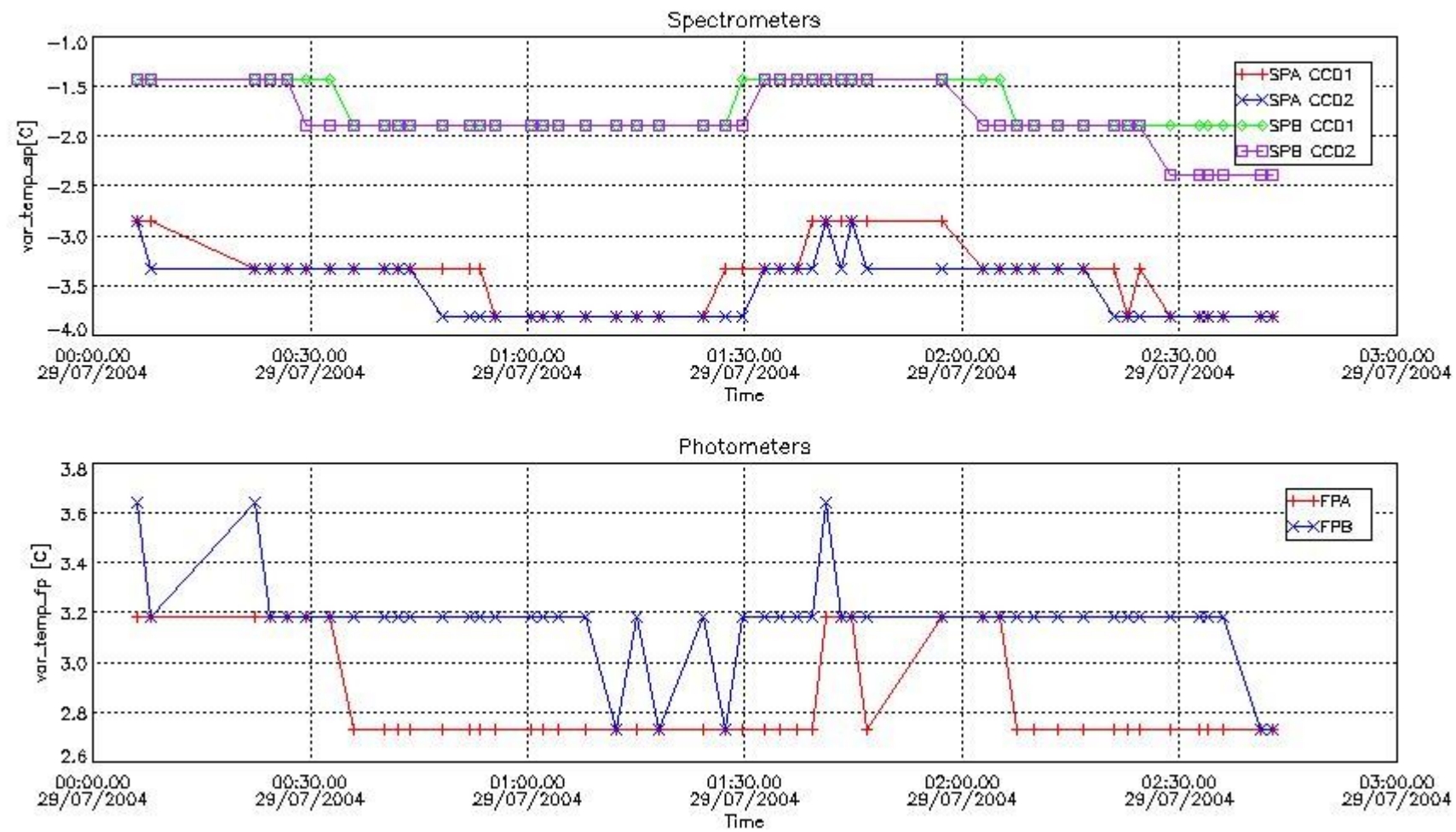
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040729_000606_000000432029_00030_12609_0000.N1	29-JUL-2004 00:06:06	Dark	43.000	139	9Bet Lep	2.8330	5600.0	86	12609	No
GOM_TRA_1PNPDE20040729_000755_000000392029_00030_12609_0001.N1	29-JUL-2004 00:07:55	Dark	38.500	177	1Zet CMa	3.0220	26000.	77	12609	No
GOM_TRA_1PNPDE20040729_002217_000000502029_00031_12610_0002.N1	29-JUL-2004 00:22:17	Dark	49.500	9	Alp Eri	0.45300	24000.	99	12610	No
GOM_TRA_1PNPDE20040729_002435_000000422029_00031_12610_0003.N1	29-JUL-2004 00:24:35	Dark	41.500	135	Bet Hyi	2.8200	5800.0	83	12610	No
GOM_TRA_1PNPDE20040729_002647_000000702029_00031_12610_0004.N1	29-JUL-2004 00:26:47	Dark	69.500	84	Alp Phe	2.3970	4500.0	139	12610	No
GOM_TRA_1PNPDE20040729_002920_000000442029_00031_12610_0005.N1	29-JUL-2004 00:29:20	Twilight	43.500	148	Alp Tuc	2.8780	4100.0	87	12610	No
GOM_TRA_1PNPDE20040729_003237_000000582029_00031_12610_0006.N1	29-JUL-2004 00:32:37	Bright	57.500	31	Alp Gru	1.7340	15200.	115	12610	No
GOM_TRA_1PNPDE20040729_003603_000000742029_00031_12610_0007.N1	29-JUL-2004 00:36:03	Bright	74.000	18	24Alp PsA	1.1660	9700.0	148	12610	No
GOM_TRA_1PNPDE20040729_004015_000000422029_00031_12610_0008.N1	29-JUL-2004 00:40:15	Bright	42.000	38	20Eps Sgr	1.8360	11000.	84	12610	No
GOM_TRA_1PNPDE20040729_004209_000000422029_00031_12610_0009.N1	29-JUL-2004 00:42:09	Bright	41.500	57	34Sig Sgr	2.0660	26000.	83	12610	No
GOM_TRA_1PNPDE20040729_004346_000000582029_00031_12610_0010.N1	29-JUL-2004 00:43:46	Bright	58.000	142	49Del Cap	2.8500	8900.0	116	12610	No
GOM_TRA_1PNPDE20040729_004813_000000582029_00031_12610_0011.N1	29-JUL-2004 00:48:13	Bright	57.500	154	22Bet Aqr	2.8990	5700.0	115	12610	No
GOM_TRA_1PNPDE20040729_005200_000000432029_00031_12610_0012.N1	29-JUL-2004 00:52:00	Bright	43.000	11	53Alp Aql	0.76500	8000.0	86	12610	No
GOM_TRA_1PNPDE20040729_005322_000000382029_00031_12610_0013.N1	29-JUL-2004 00:53:22	Bright	38.000	168	17Zet Aql	2.9860	11000.	76	12610	No
GOM_TRA_1PNPDE20040729_005531_000000722029_00031_12610_0014.N1	29-JUL-2004 00:55:31	Bright	72.000	61	8Eps Peg	2.1000	3900.0	144	12610	No
GOM_TRA_1PNPDE20040729_010027_000000412029_00031_12610_0015.N1	29-JUL-2004 01:00:27	Bright	41.000	5	3Alp Lyr	0.033000	11000.	82	12610	No
GOM_TRA_1PNPDE20040729_010207_000000432029_00031_12610_0016.N1	29-JUL-2004 01:02:07	Bright	42.500	66	37Gam Cyg	2.2080	5900.0	85	12610	No
GOM_TRA_1PNPDE20040729_010410_000000392029_00031_12610_0017.N1	29-JUL-2004 01:04:10	Bright	38.500	69	33Gam Dra	2.2310	3800.0	77	12610	No
GOM_TRA_1PNPDE20040729_010804_000000402029_00031_12610_0018.N1	29-JUL-2004 01:08:04	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	12610	No
GOM_TRA_1PNPDE20040729_011215_000000412029_00031_12610_0019.N1	29-JUL-2004 01:12:15	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	12610	No
GOM_TRA_1PNPDE20040729_011501_000000382029_00031_12610_0020.N1	29-JUL-2004 01:15:01	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	12610	No
GOM_TRA_1PNPDE20040729_011804_000000512029_00031_12610_0021.N1	29-JUL-2004 01:18:04	Bright	50.500	76	27Gam Cas	2.3000	30000.	101	12610	No
GOM_TRA_1PNPDE20040729_012412_000000562029_00031_12610_0022.N1	29-JUL-2004 01:24:12	Bright	56.000	160	23Gam Per	2.9300	4700.0	112	12610	No
GOM_TRA_1PNPDE20040729_012716_000000752029_00031_12610_0023.N1	29-JUL-2004 01:27:16	Twilight	75.000	73	57Gam1And	2.2600	13100.	150	12610	No
GOM_TRA_1PNPDE20040729_012937_000000462029_00031_12610_0024.N1	29-JUL-2004 01:29:37	Twilight	45.500	149	45Eps Per	2.8880	30000.	91	12610	No
GOM_TRA_1PNPDE20040729_013236_000000542029_00031_12610_0025.N1	29-JUL-2004 01:32:36	Twilight	54.000	150	44Zet Per	2.8900	28000.	108	12610	No
GOM_TRA_1PNPDE20040729_013451_000000422029_00031_12610_0026.N1	29-JUL-2004 01:34:51	Twilight	42.000	176	23Zet Tau	3.0200	22000.	84	12610	No
GOM_TRA_1PNPDE20040729_013715_000000612029_00031_12610_0027.N1	29-JUL-2004 01:37:15	Twilight	61.000	13	87Alp Tau	0.86700	3800.0	122	12610	No
GOM_TRA_1PNPDE20040729_013917_000000472029_00031_12610_0028.N1	29-JUL-2004 01:39:17	Twilight	46.500	27	24Gam Ori	1.6360	26000.	93	12610	No
GOM_TRA_1PNPDE20040729_014112_000000452029_00031_12610_0000.N1	29-JUL-2004 01:41:12	Twilight	45.000	30	46Eps Ori	1.6940	30000.	90	12610	Yes
GOM_TRA_1PNPDE20040729_014319_000000392029_00031_12610_0001.N1	29-JUL-2004 01:43:19	Dark	39.000	56	53Kap Ori	2.0650	30000.	78	12610	No
GOM_TRA_1PNPDE20040729_014440_000000442029_00031_12610_0002.N1	29-JUL-2004 01:44:40	Dark	43.500	1	9Alp CMa	-1.4400	11000.	87	12610	No
GOM_TRA_1PNPDE20040729_014643_000000422029_00031_12610_0003.N1	29-JUL-2004 01:46:43	Dark	42.000	139	9Bet Lep	2.8330	5600.0	84	12610	No
GOM_TRA_1PNPDE20040729_015715_000000492029_00031_12610_0004.N1	29-JUL-2004 01:57:15	Dark	49.000	157	The1Eri	2.9060	9300.0	98	12610	No
GOM_TRA_1PNPDE20040729_020254_000000482029_00032_12611_0005.N1	29-JUL-2004 02:02:54	Dark	48.000	9	Alp Eri	0.45300	24000.	96	12611	No
GOM_TRA_1PNPDE20040729_020512_000000392029_00032_12611_0006.N1	29-JUL-2004 02:05:12	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	12611	No
GOM_TRA_1PNPDE20040729_020726_000000632029_00032_12611_0007.N1	29-JUL-2004 02:07:26	Dark	63.000	84	Alp Phe	2.3970	4500.0	126	12611	No
GOM_TRA_1PNPDE20040729_020956_000000462029_00032_12611_0008.N1	29-JUL-2004 02:09:56	Twilight	46.000	148	Alp Tuc	2.8780	4100.0	92	12611	No
GOM_TRA_1PNPDE20040729_021314_000000502029_00032_12611_0009.N1	29-JUL-2004 02:13:14	Bright	49.500	31	Alp Gru	1.7340	15200.	99	12611	No
GOM_TRA_1PNPDE20040729_021640_000000742029_00032_12611_0010.N1	29-JUL-2004 02:16:40	Bright	73.500	18	24Alp PsA	1.1660	9700.0	147	12611	No
GOM_TRA_1PNPDE20040729_022051_000000412029_00032_12611_0011.N1	29-JUL-2004 02:20:51	Bright	41.000	38	20Eps Sgr	1.8360	11000.	82	12611	No
GOM_TRA_1PNPDE20040729_022246_000000412029_00032_12611_0012.N1	29-JUL-2004 02:22:46	Bright	40.500	57	34Sig Sgr	2.0660	26000.	81	12611	No
GOM_TRA_1PNPDE20040729_022422_000000582029_00032_12611_0013.N1	29-JUL-2004 02:24:22	Bright	58.000	142	49Del Cap	2.8500	8900.0	116	12611	No
GOM_TRA_1PNPDE20040729_022848_000000592029_00032_12611_0014.N1	29-JUL-2004 02:28:48	Bright	58.500	154	22Bet Aqr	2.8990	5700.0	117	12611	No
GOM_TRA_1PNPDE20040729_023237_000000422029_00032_12611_0015.N1	29-JUL-2004 02:32:37	Bright	41.500	11	53Alp Aql	0.76500	8000.0	83	12611	No
GOM_TRA_1PNPDE20040729_023356_000000412029_00032_12611_0016.N1	29-JUL-2004 02:33:56	Bright	40.500	168	17Zet Aql	2.9860	11000.	81	12611	No
GOM_TRA_1PNPDE20040729_023606_000000692029_00032_12611_0017.N1	29-JUL-2004 02:36:06	Bright	68.500	61	8Eps Peg	2.1000	3900.0	137	12611	No
GOM_TRA_1PNPDE20040729_024103_000000422029_00032_12611_0018.N1	29-JUL-2004 02:41:03	Bright	41.500	5	3Alp Lyr	0.033000	11000.	83	12611	No
GOM_TRA_1PNPDE20040729_024242_000000432029_00032_12611_0019.N1	29-JUL-2004 02:42:42	Bright	43.000	66	37Gam Cyg	2.2080	5900.0	86	12611	No

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



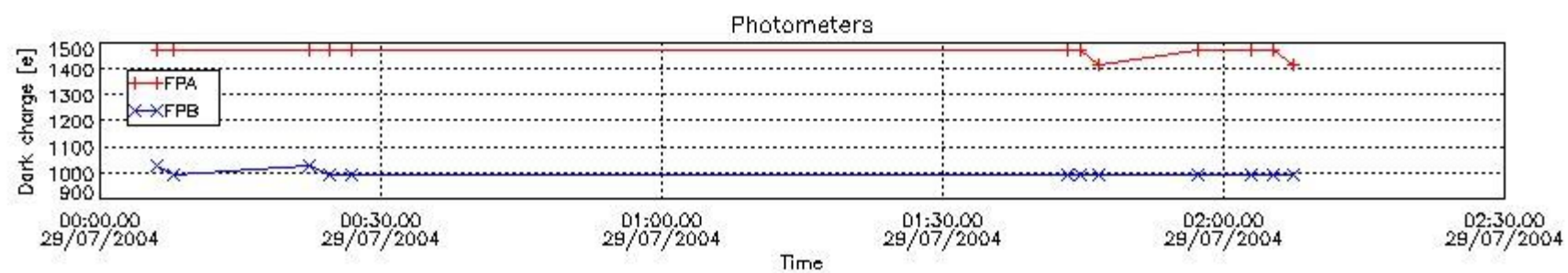
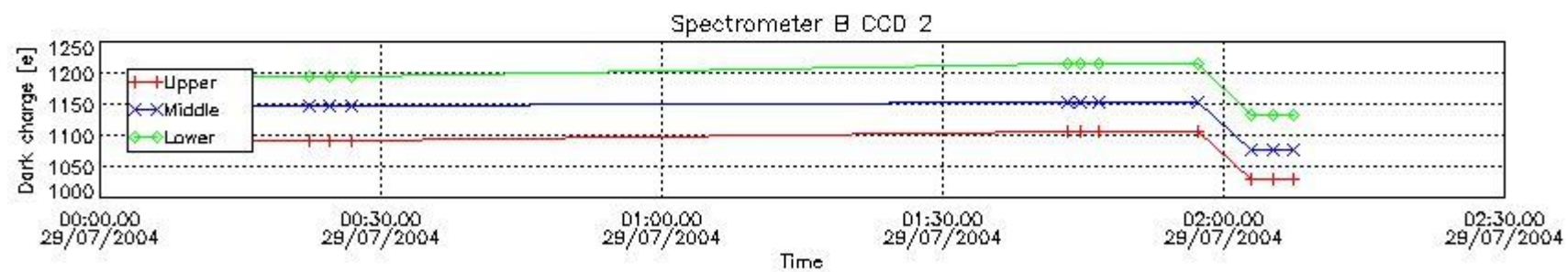
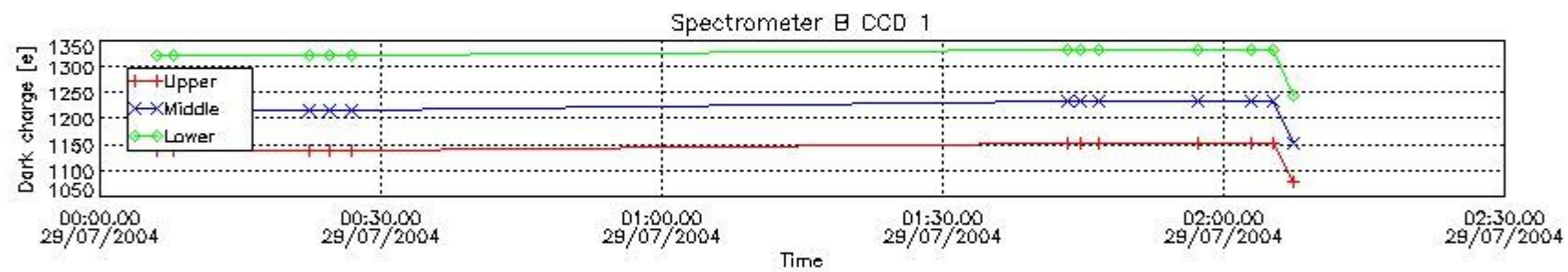
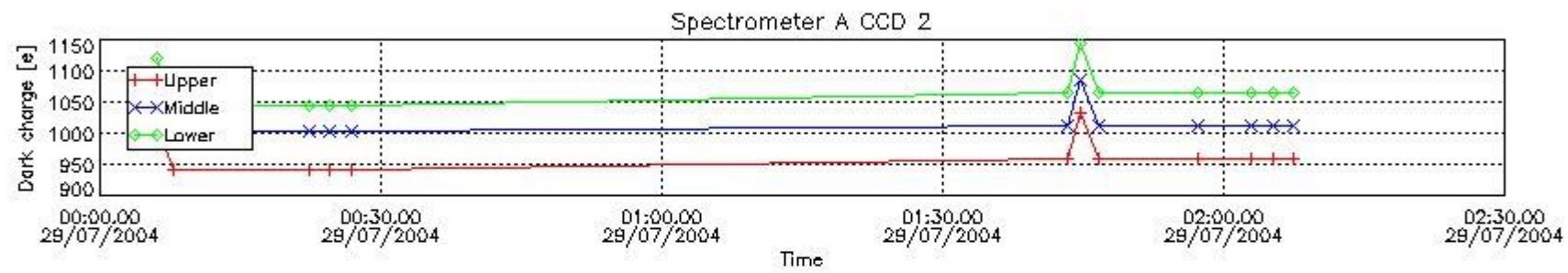
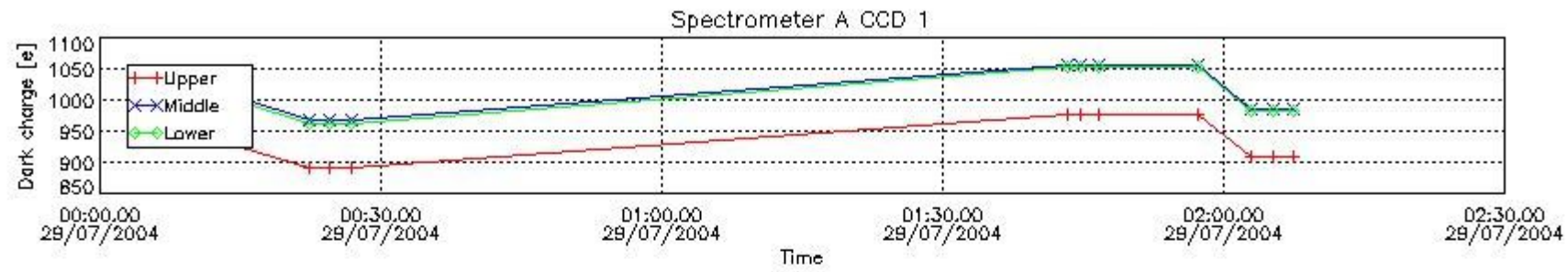
4. Overview of dark signal processing per product

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



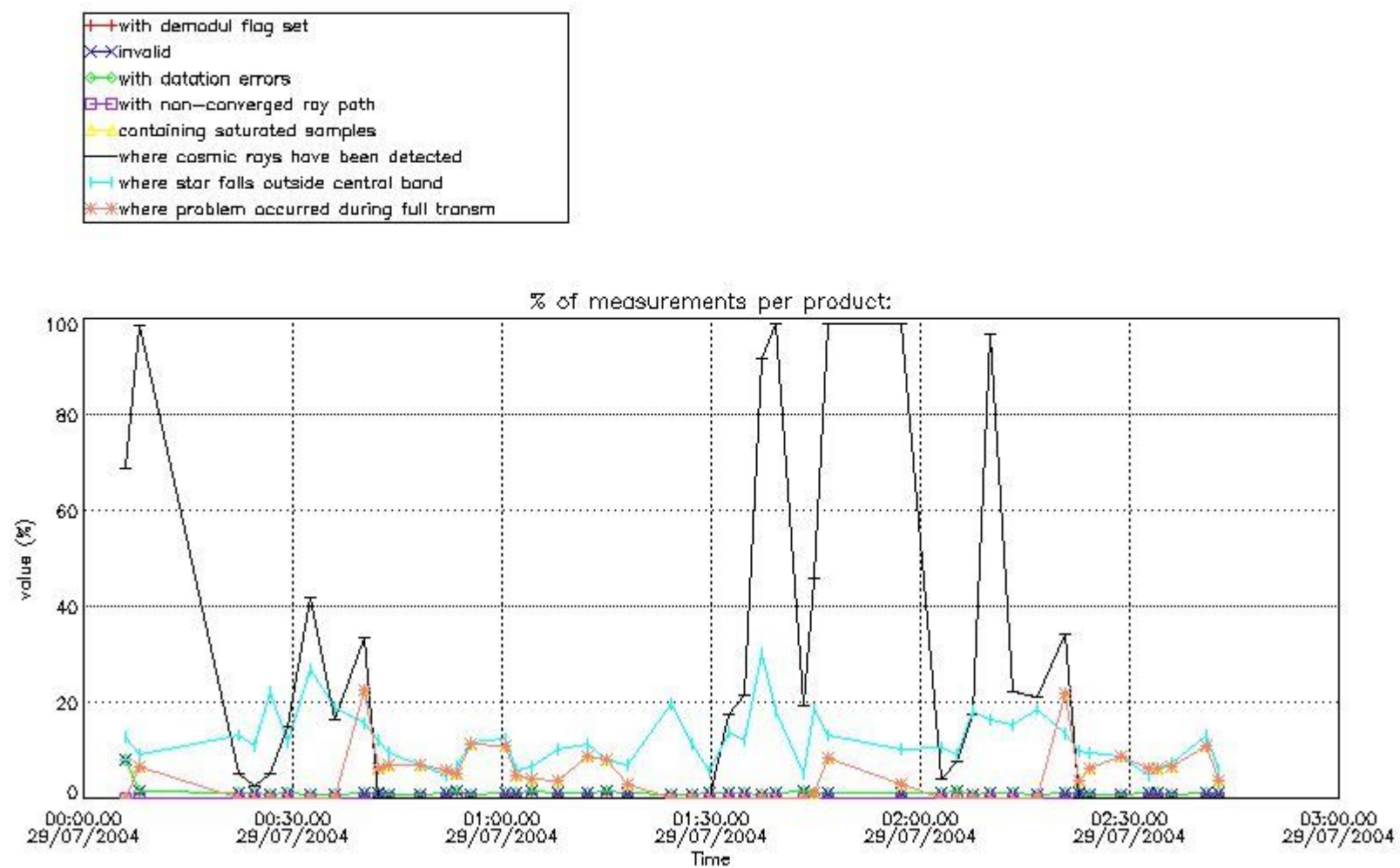
5. Demodulation flag and quality information monitoring

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.

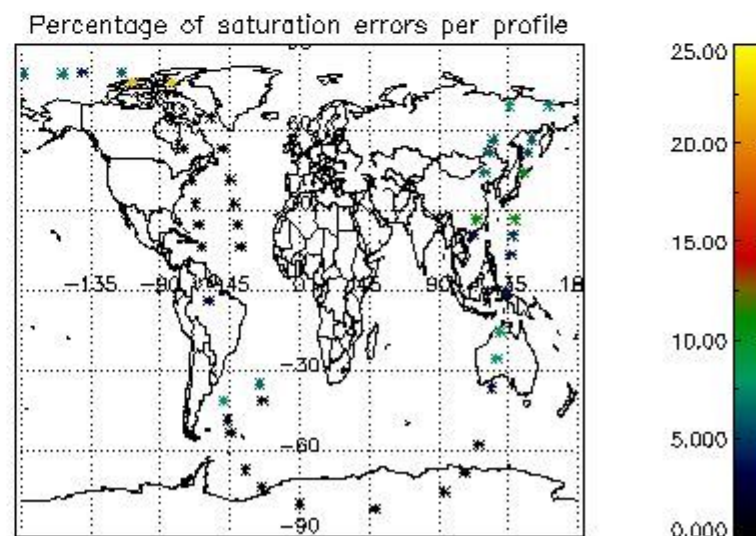
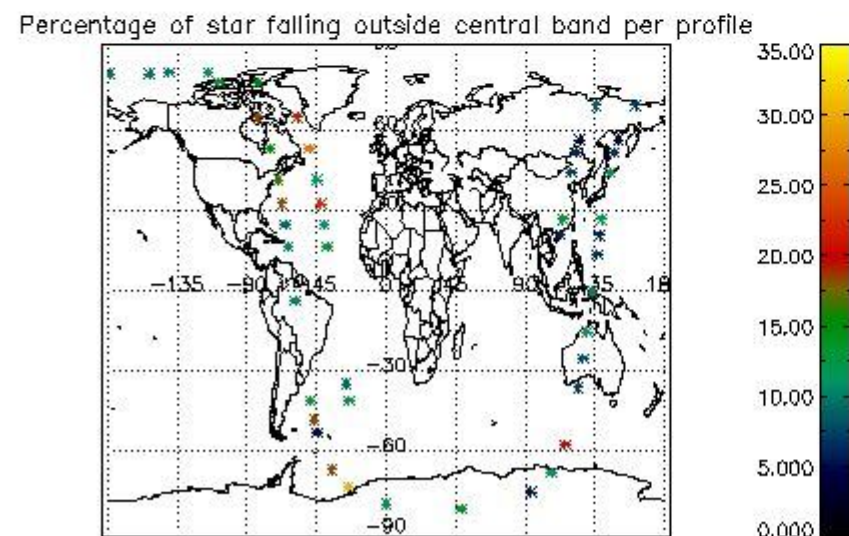
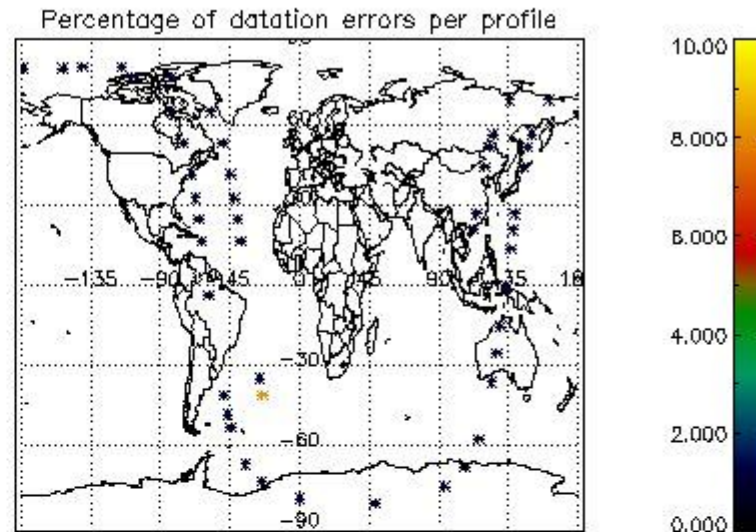
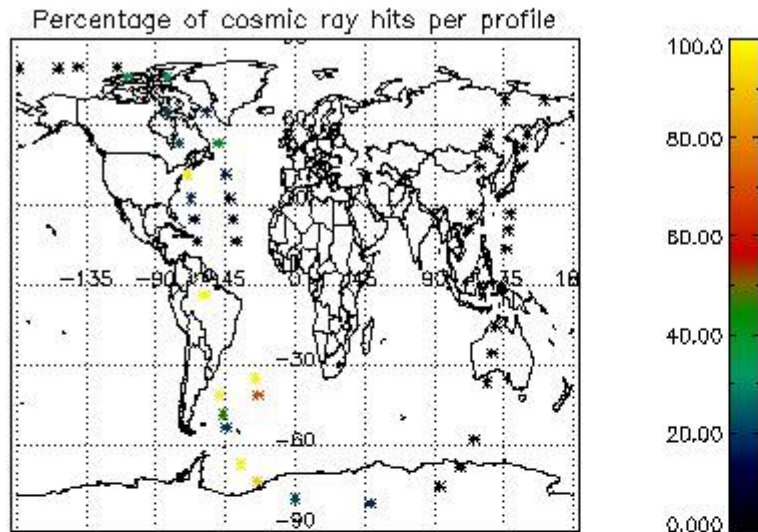
5.1 Percentage of products during reporting period with:

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)



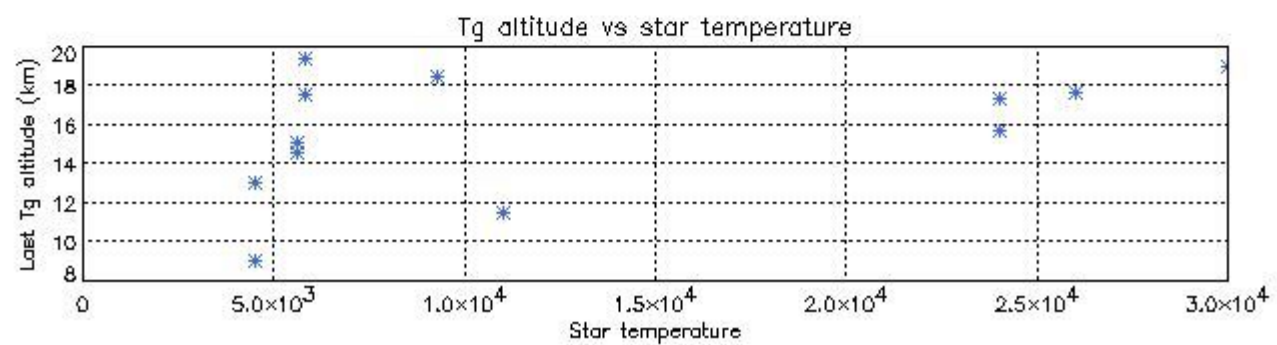
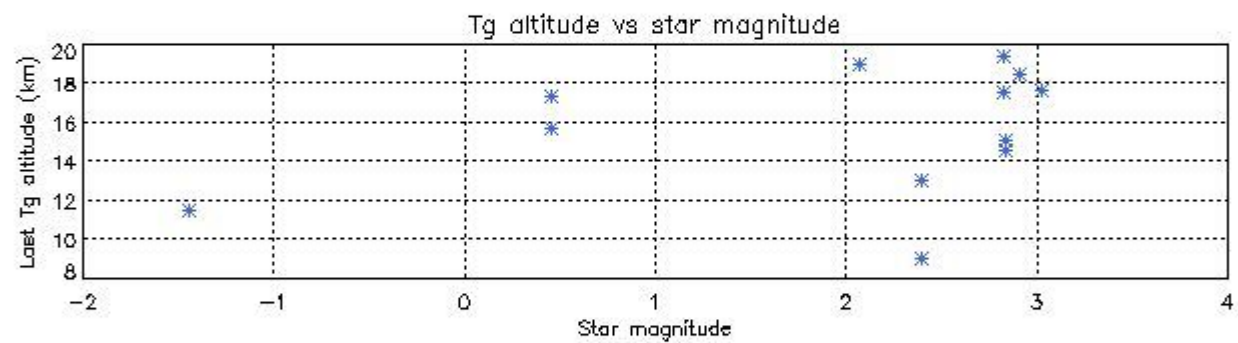
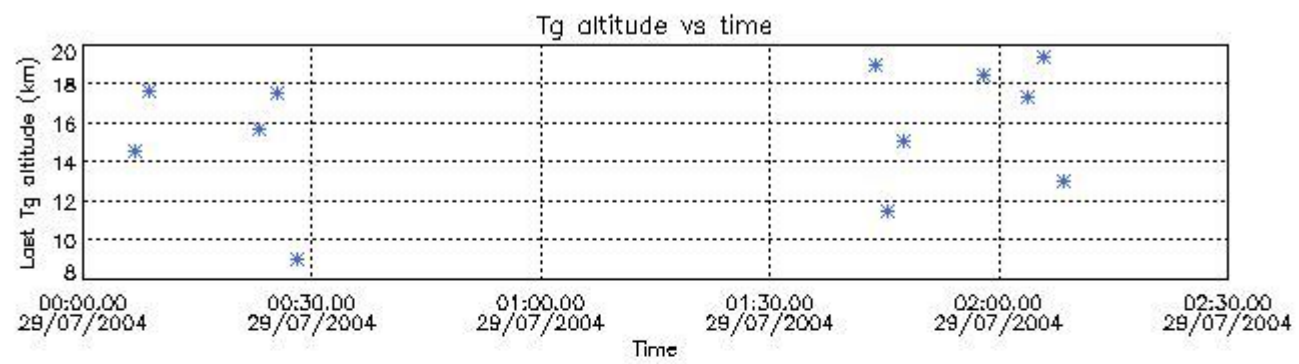
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.668	17.413	14.528
St. deviation:	3.1892	3.5548	4.4002
Maximum:	19.391	21.937	21.246
Minimum:	9.0417	7.4010	6.1953
Number of data:	12.000	28.000	8.0000

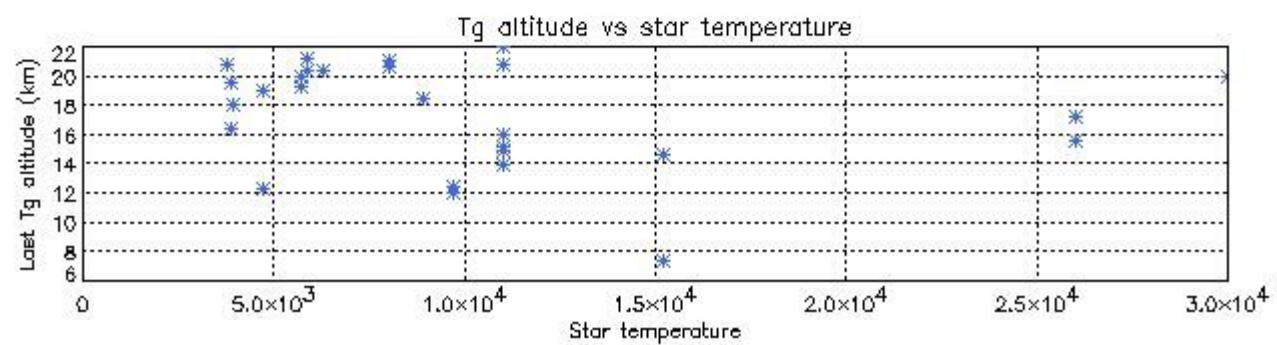
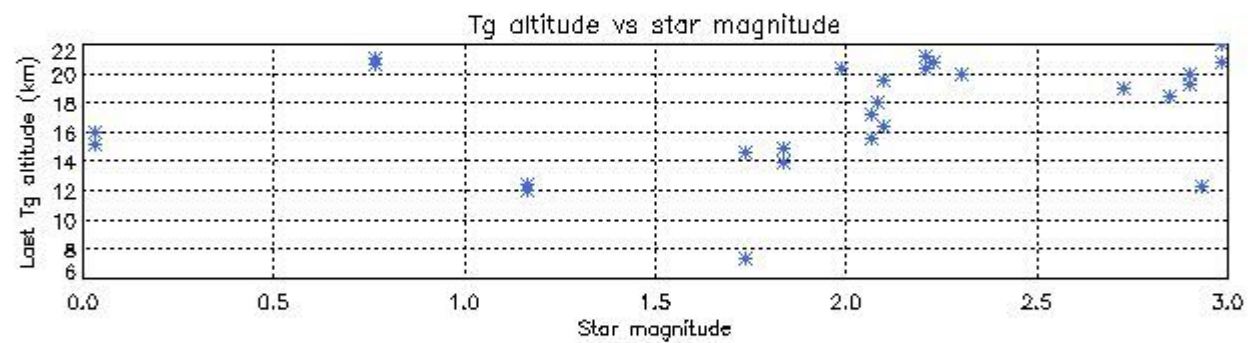
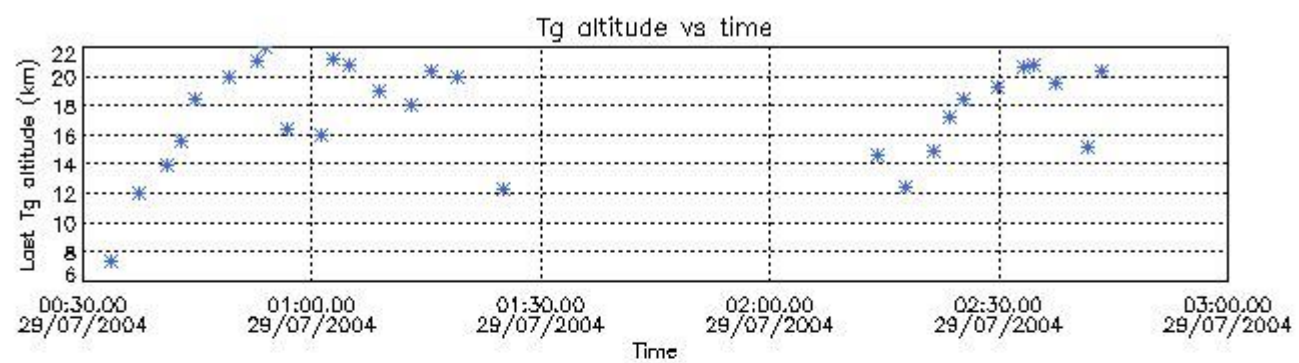
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



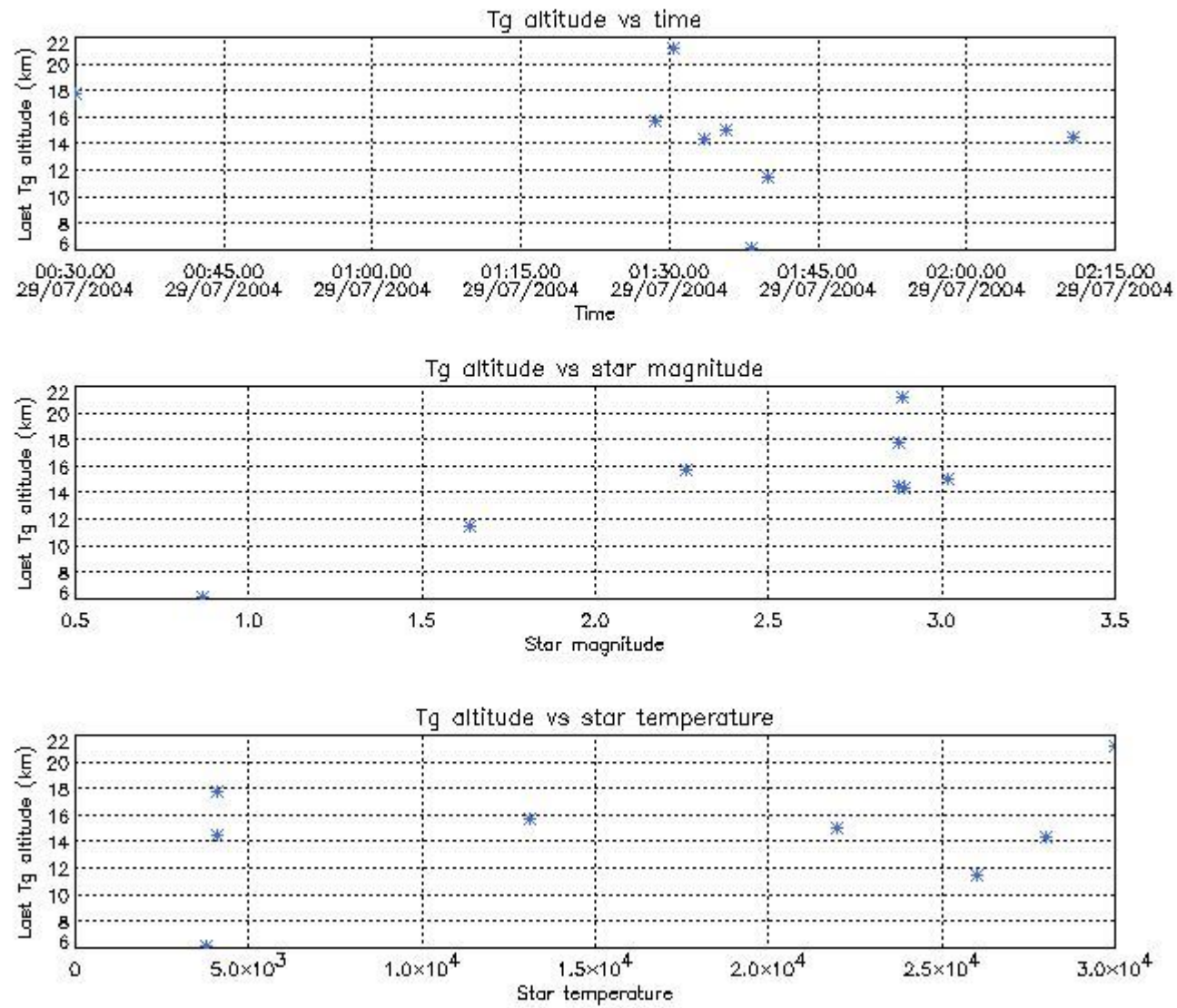
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

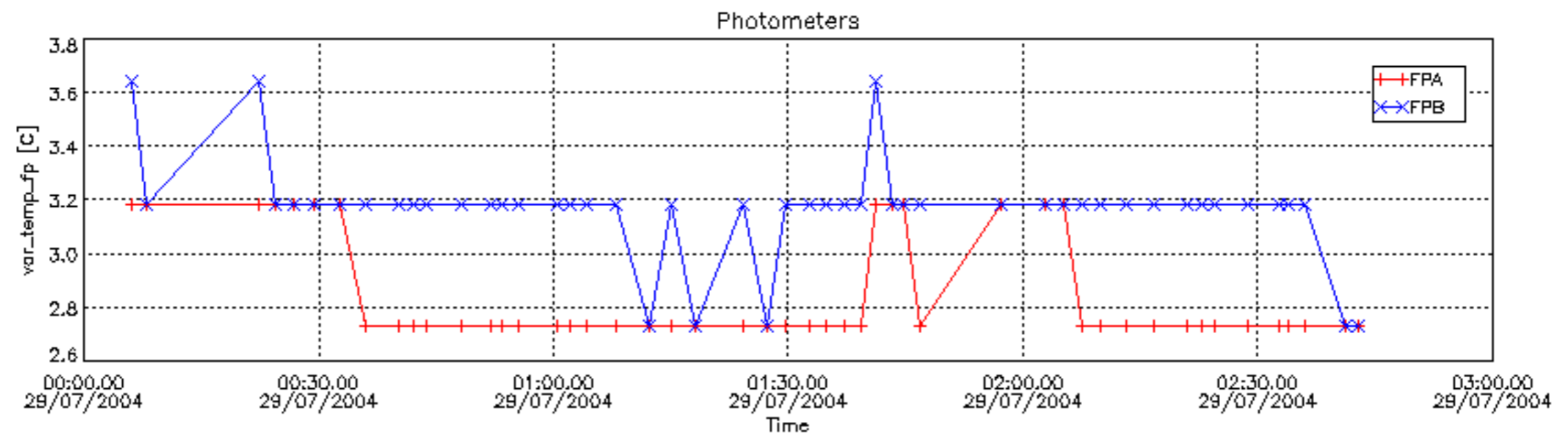
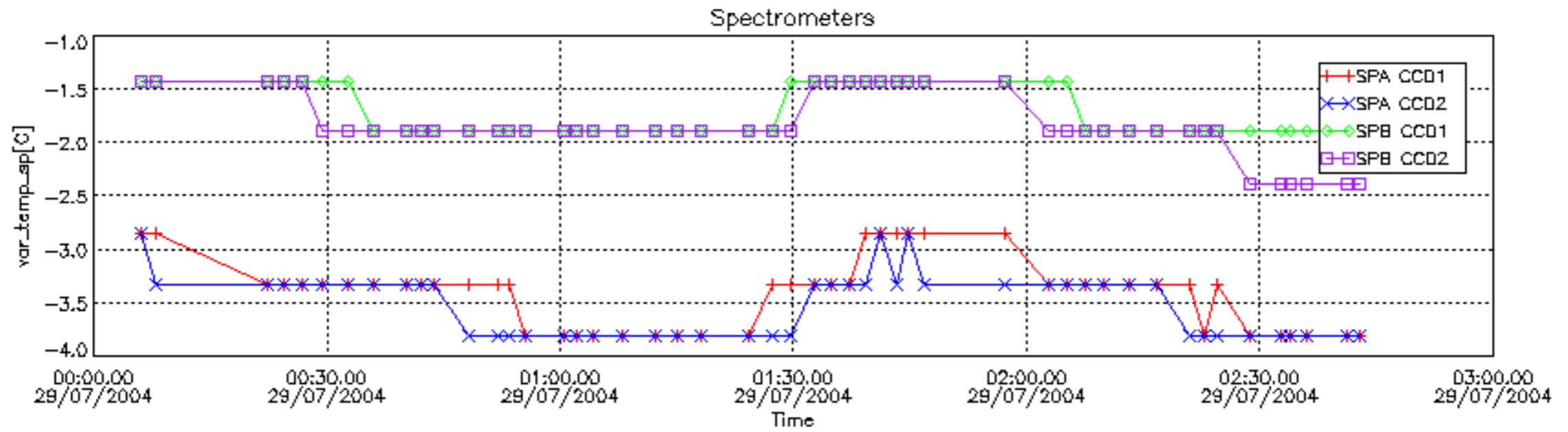
Tangent altitude at which the star is lost

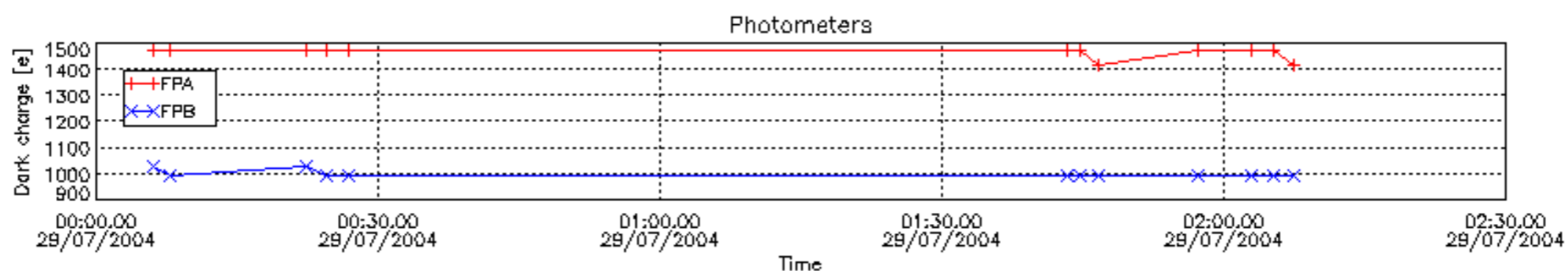
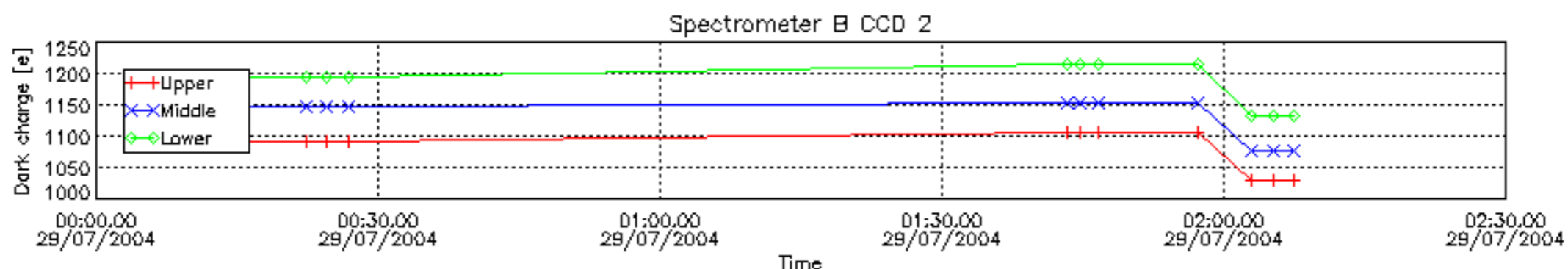
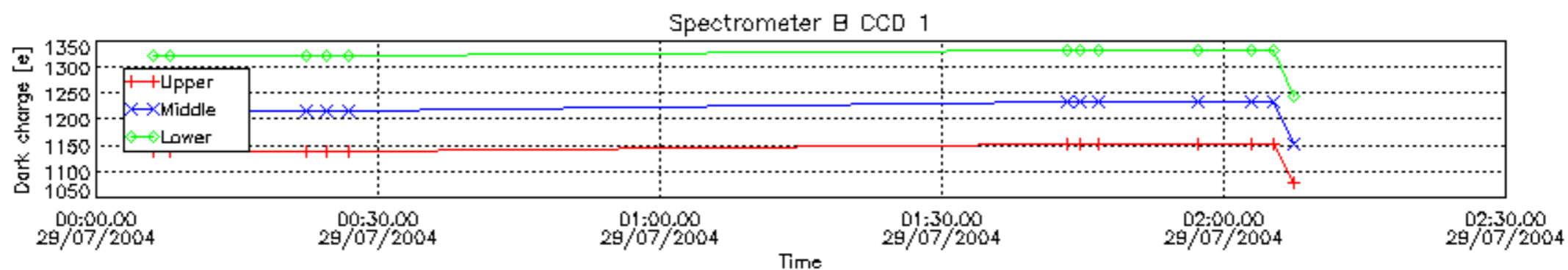
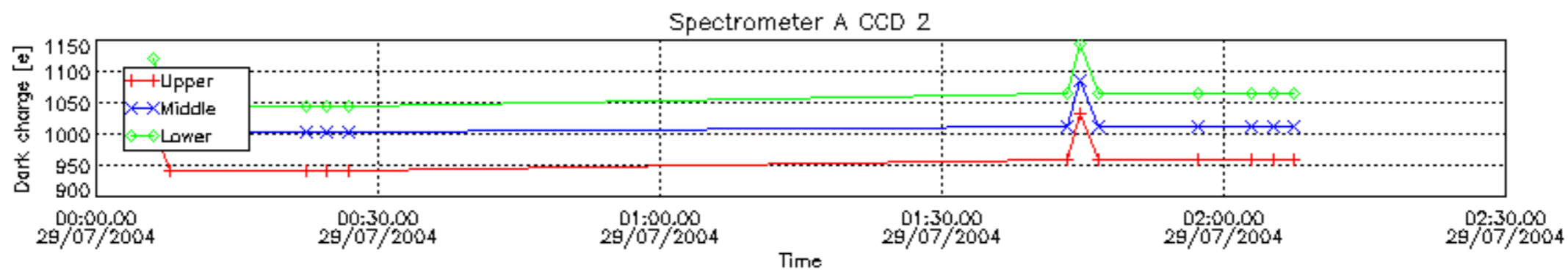
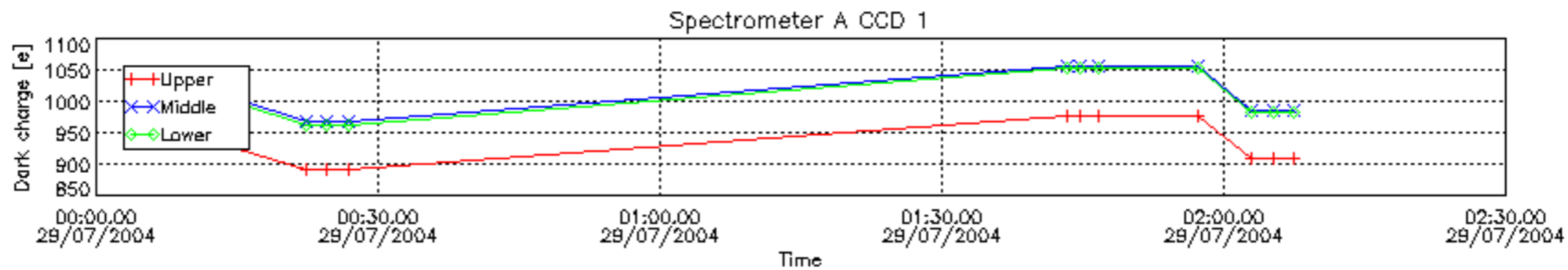


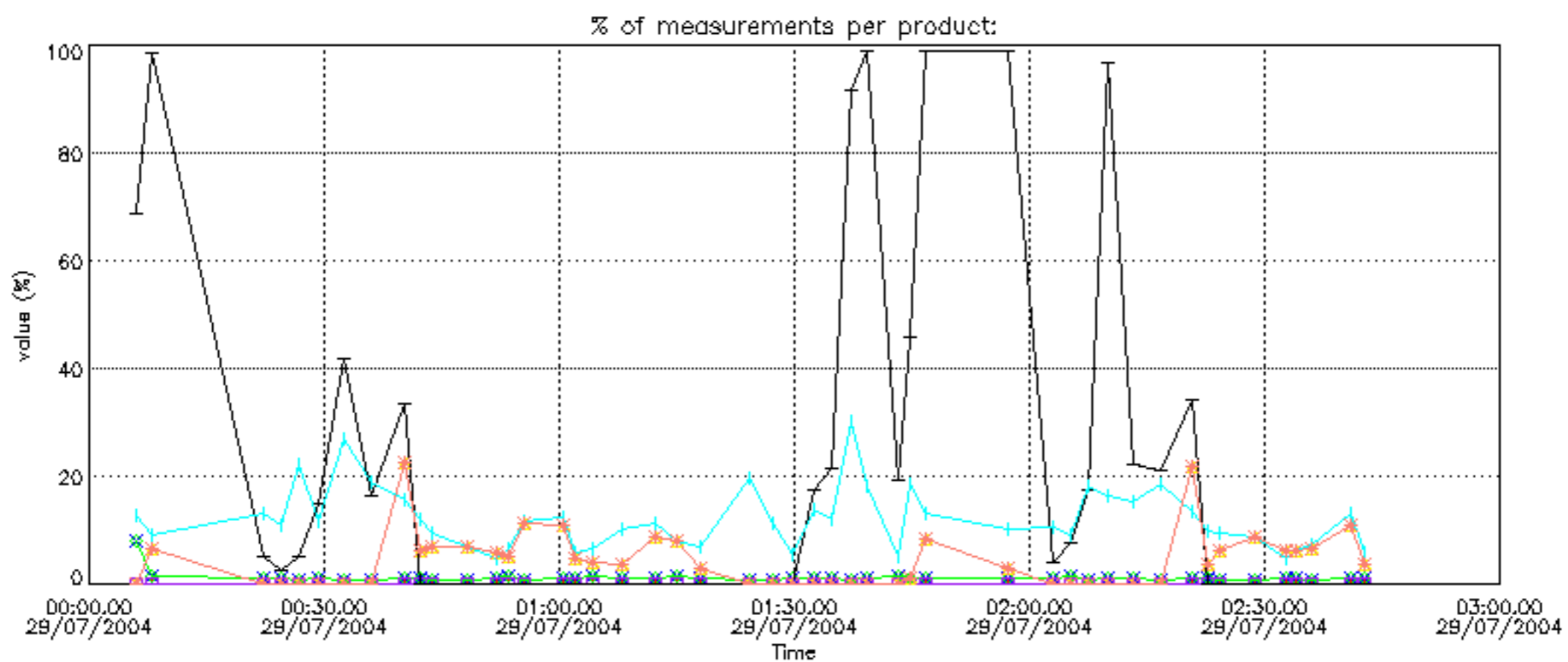
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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

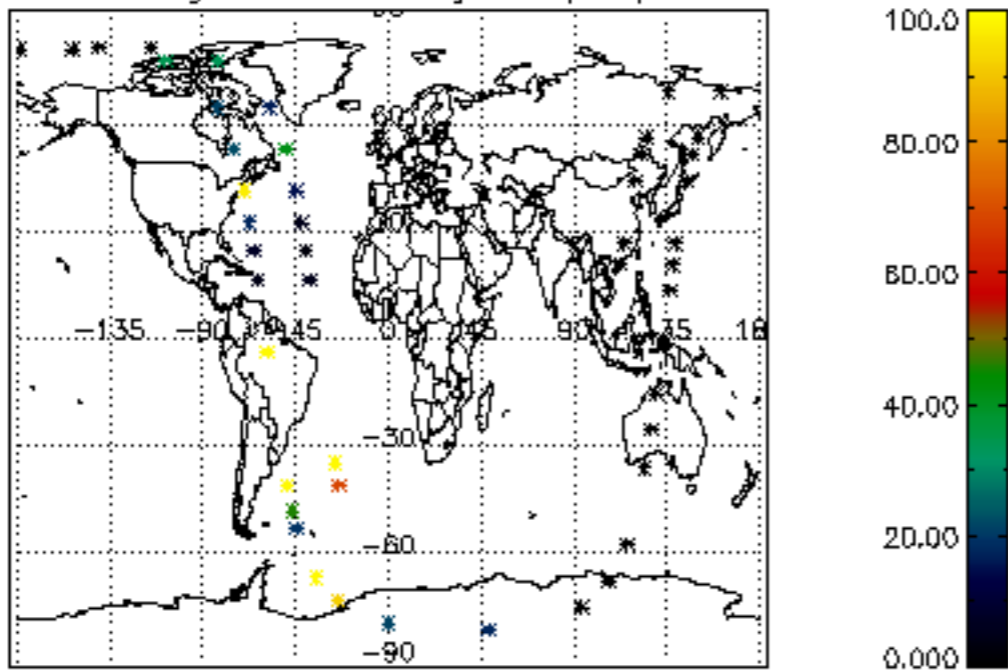
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.8	1447.2	1462.0	1447.9
St. deviation:	5.4114	6.4023	6.1396	6.7312
Maximum:	1493.0	1483.0	1511.0	1500.0
Minimum:	1454.0	1438.0	1444.0	1428.0
Number of data:	15350.	15350.	35050.	35050.



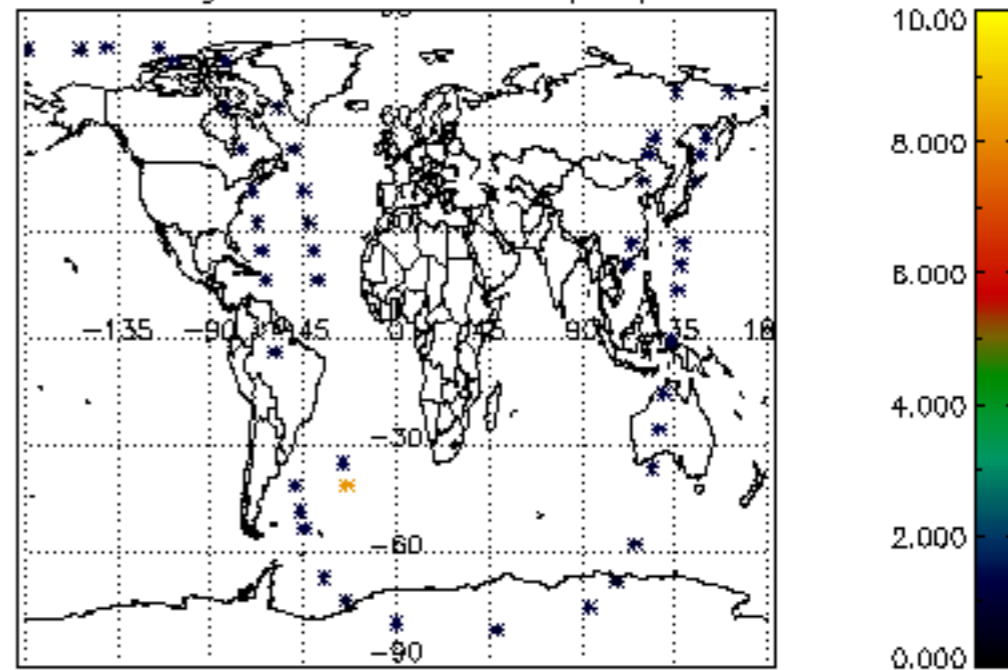




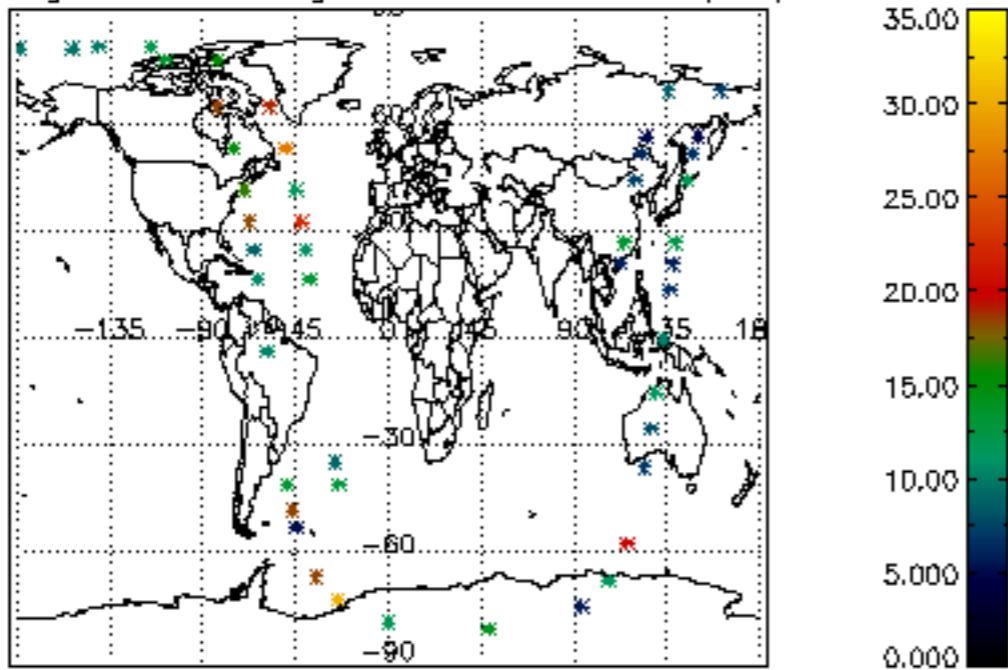
Percentage of cosmic ray hits per profile



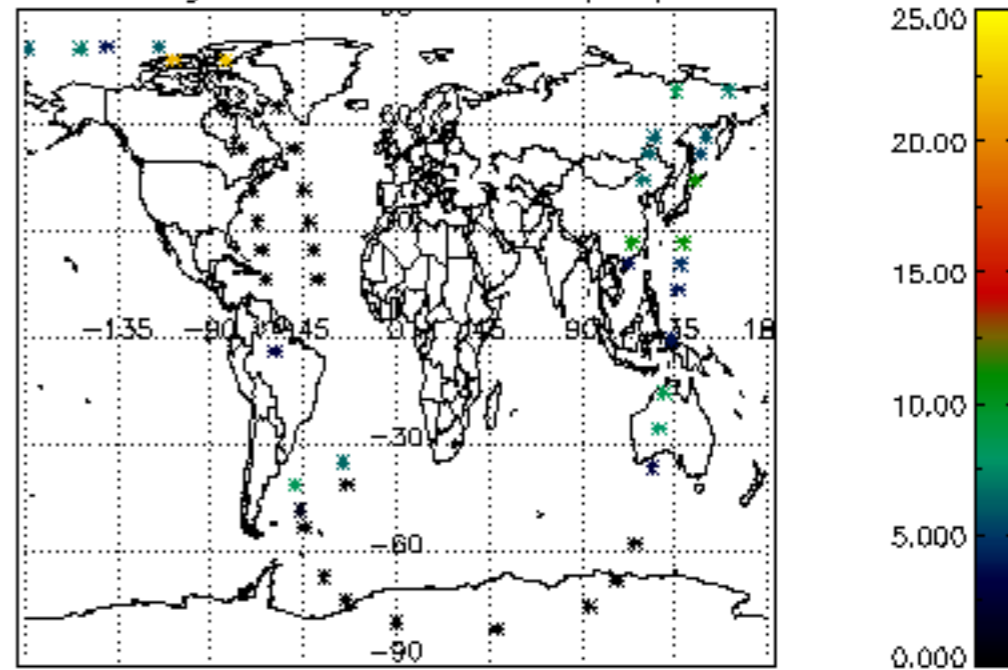
Percentage of datation errors per profile



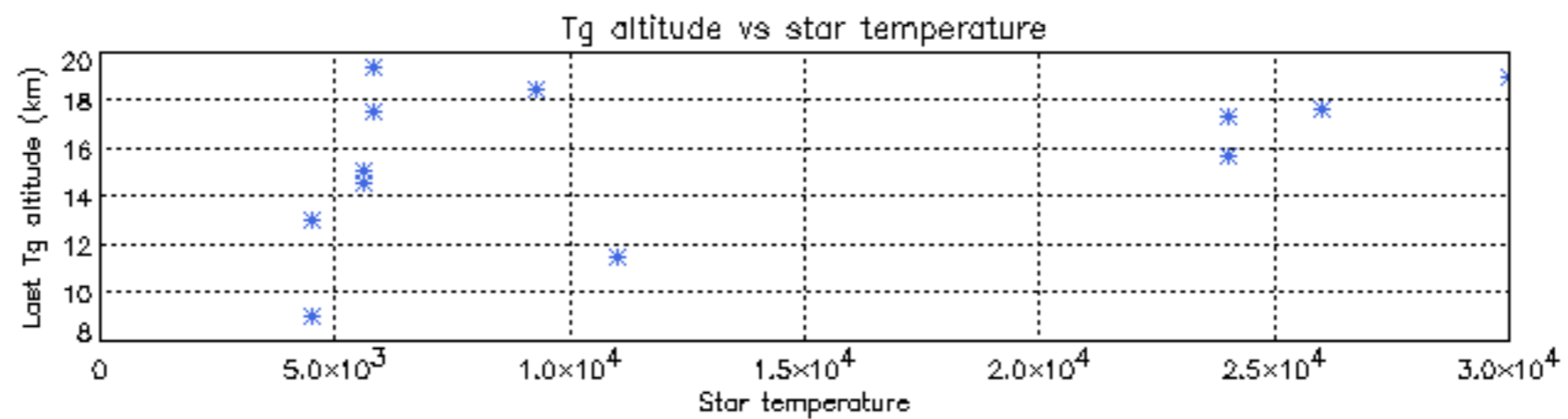
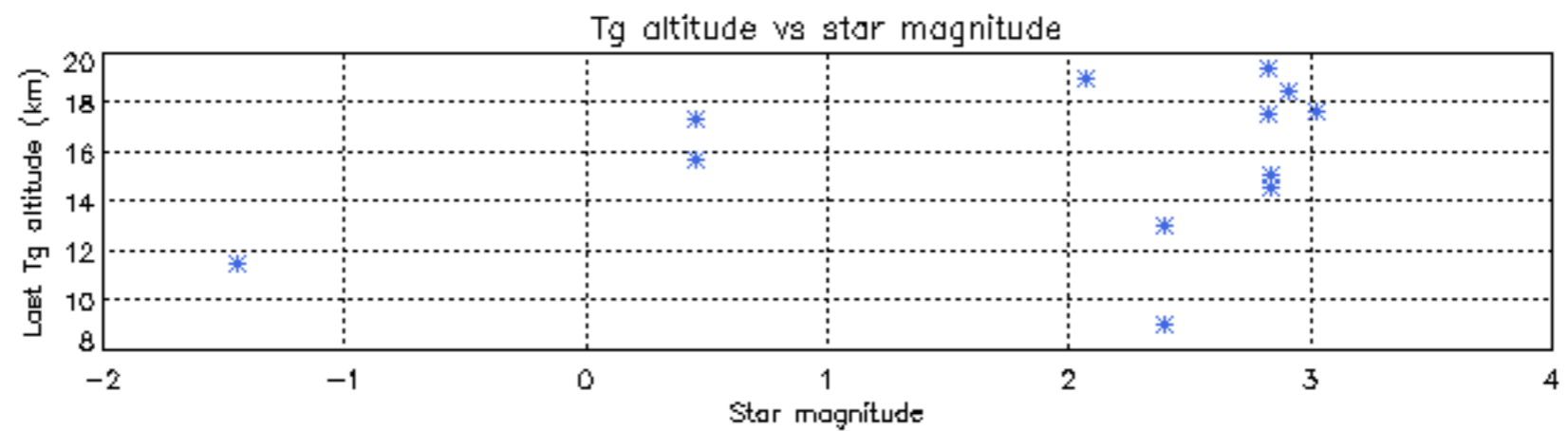
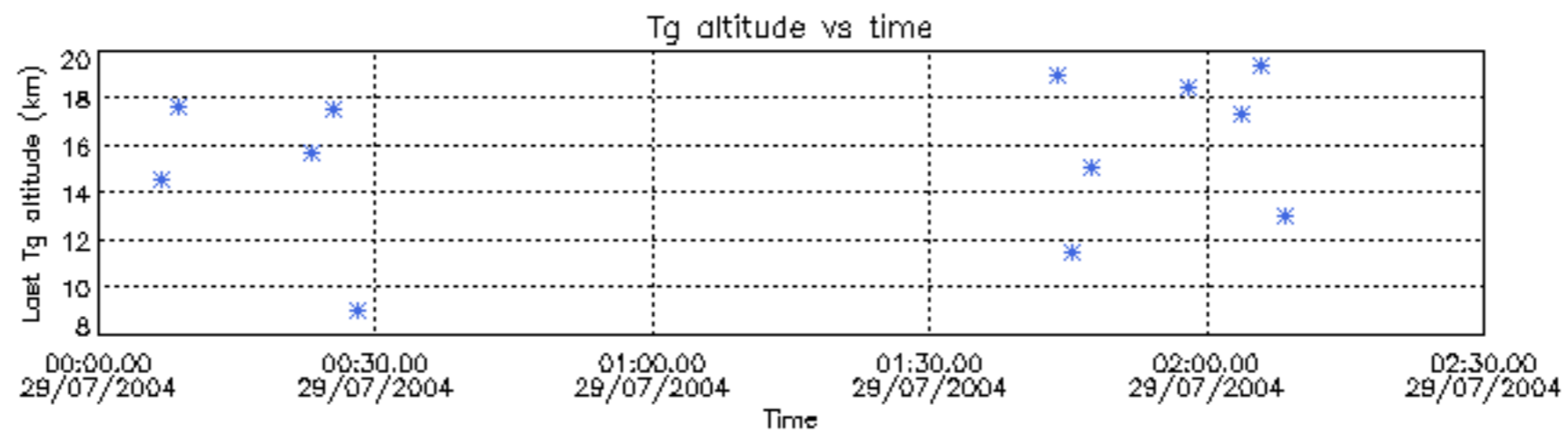
Percentage of star falling outside central band per profile



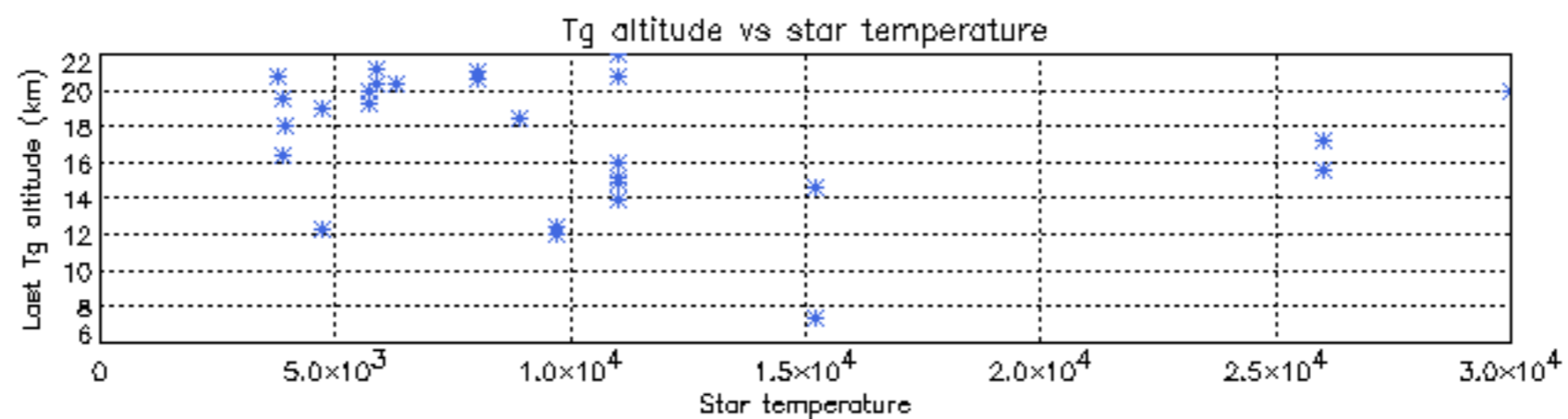
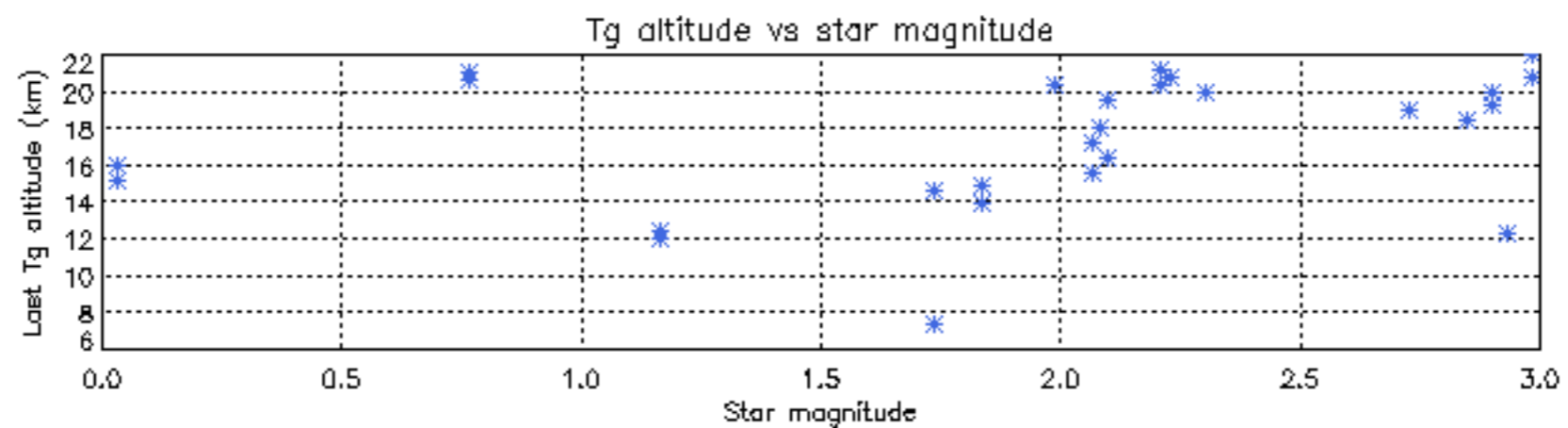
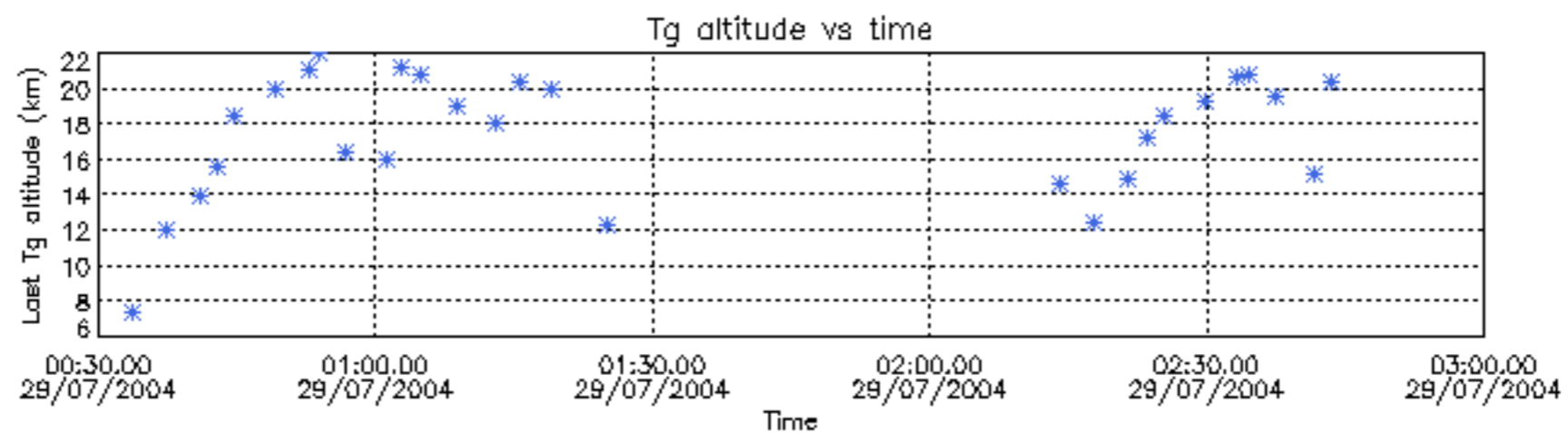
Percentage of saturation errors per profile



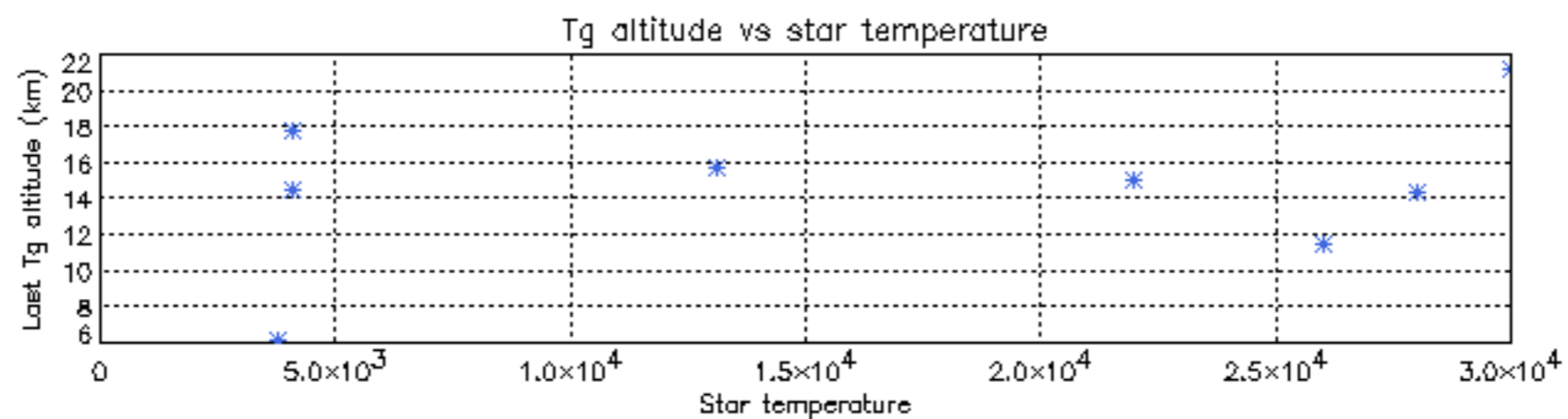
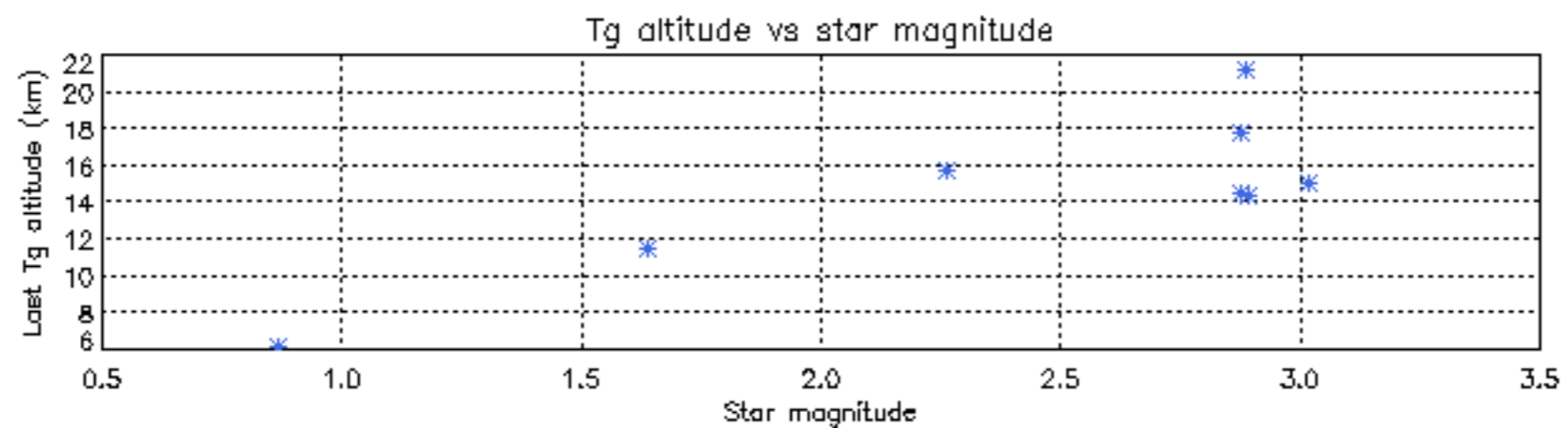
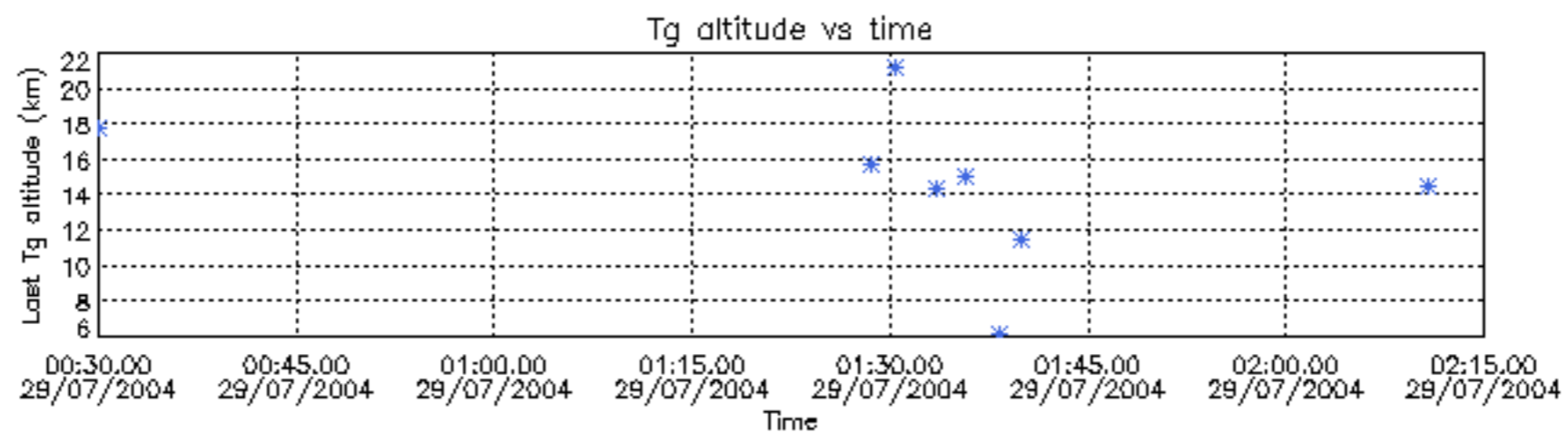
Tangent altitude at which the star is lost



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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12; -160.5; 01-JUL-2004 04:56:39; Dark ; 81.0; 52; 16Bet Cet ; 2.04; 4500;occ; 162; 0;12211
13; 38.7; 01-JUL-2004 04:59:58; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;12212
14; 315.6; 01-JUL-2004 05:04:35; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12212
15; 491.7; 01-JUL-2004 05:07:31; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;12212
16; 589.3; 01-JUL-2004 05:09:08; Dark ; 85.5; 18; 24Alp PsA ; 1.17; 9700;occ; 171; 0;12212
17; 747.1; 01-JUL-2004 05:11:46; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;12212
18; 975.6; 01-JUL-2004 05:15:35; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;12212
19; 1062.9; 01-JUL-2004 05:17:02; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;12212
20; 1171.4; 01-JUL-2004 05:18:51; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;12212
21; 1270.6; 01-JUL-2004 05:20:30; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;12212
22; 1356.2; 01-JUL-2004 05:21:55; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;12212
23; 1479.9; 01-JUL-2004 05:23:59; Bright; 47.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 95; 0;12212
24; 1642.7; 01-JUL-2004 05:26:42; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;12212
25; 1747.7; 01-JUL-2004 05:28:27; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;12212
26; 1878.6; 01-JUL-2004 05:30:38; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;12212
27; 1980.5; 01-JUL-2004 05:32:20; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;12212
28; 2120.4; 01-JUL-2004 05:34:40; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;12212
29; 2283.4; 01-JUL-2004 05:37:23; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;12212
30; 2446.9; 01-JUL-2004 05:40:06; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;12212
31; 2647.1; 01-JUL-2004 05:43:26; Bright; 45.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 91; 0;12212
32; 2806.1; 01-JUL-2004 05:46:05; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;12212
33; 2951.0; 01-JUL-2004 05:48:30; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;12212
34; 3191.5; 01-JUL-2004 05:52:31; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;12212
35; 3337.5; 01-JUL-2004 05:54:57; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;12212
36; 3443.7; 01-JUL-2004 05:56:43; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;12212
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2;-2162.7; 01-JUL-2004 06:03:52; Bright; 42.5; 110; 37Del Cas ; 2.68; 8900;occ; 85; 0;12212
3;-1975.1; 01-JUL-2004 06:07:00; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;12212
4;-1871.8; 01-JUL-2004 06:08:43; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;12212
5;-1771.3; 01-JUL-2004 06:10:24; Bright; 50.0; 73; 57Gam1And ; 2.26; 13100;occ; 100; 0;12212
6;-1617.2; 01-JUL-2004 06:12:58; Dark ; 74.0; 53; 43Bet And ; 2.05; 3300;occ; 148; 0;12212
7;-1355.8; 01-JUL-2004 06:17:19; Dark ; 64.0; 50; 13Alp Ari ; 2.01; 4250;occ; 128; 0;12212
8;-1056.5; 01-JUL-2004 06:22:19; Dark ; 52.0; 94; 92Alp Cet ; 2.53; 3100;occ; 104; 0;12212
9; -834.7; 01-JUL-2004 06:26:00; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;12212
10; -494.1; 01-JUL-2004 06:31:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12212
11; -328.5; 01-JUL-2004 06:34:27; Dark ; 39.0; 157; The1Eri ; 2.91; 9300;occ; 78; 0;12212
12; -158.6; 01-JUL-2004 06:37:17; Dark ; 93.0; 52; 16Bet Cet ; 2.04; 4500;occ; 186; 0;12212
13; 39.3; 01-JUL-2004 06:40:34; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;12213
14; 316.0; 01-JUL-2004 06:45:11; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12213
15; 493.0; 01-JUL-2004 06:48:08; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;12213
16; 591.0; 01-JUL-2004 06:49:46; Dark ; 94.5; 18; 24Alp PsA ; 1.17; 9700;occ; 189; 0;12213
17; 747.9; 01-JUL-2004 06:52:23; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;12213
18; 975.3; 01-JUL-2004 06:56:10; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;12213
19; 1063.4; 01-JUL-2004 06:57:39; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;12213
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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
23; 1480.4; 01-JUL-2004 07:04:36; Bright; 47.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 94; 0;12213
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3;-4055.2; 01-JUL-2004 07:12:56; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;12213
4;-3915.5; 01-JUL-2004 07:15:16; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;12213
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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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 2;-3903.1; 16-JUL-2004 09:24:51; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;12429
 3;-3548.1; 16-JUL-2004 09:30:46; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;12429
 4;-3457.0; 16-JUL-2004 09:32:17; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;12429
 5;-3254.7; 16-JUL-2004 09:35:40; Bright; 39.5; 69; 33Gam Dra ; 2.23; 3800;occ; 79; 0;12429
 6;-3058.8; 16-JUL-2004 09:38:55; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;12429
 7;-2805.4; 16-JUL-2004 09:43:09; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;12429
 8;-2593.8; 16-JUL-2004 09:46:40; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;12429
 9;-2389.9; 16-JUL-2004 09:50:04; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;12429
10;-2273.0; 16-JUL-2004 09:52:01; Bright; 56.0; 68; 18Alp Cas ; 2.22; 4500;occ; 112; 0;12429
11;-1999.0; 16-JUL-2004 09:56:35; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;12429
12;-1918.4; 16-JUL-2004 09:57:56; Bright; 44.5; 35; 33Alp Per ; 1.79; 6250;occ; 89; 0;12429
13;-1800.7; 16-JUL-2004 09:59:54; Bright; 66.0; 73; 57Gam1And ; 2.26; 13100;occ; 132; 0;12429
14;-1627.0; 16-JUL-2004 10:02:47; Dark ; 125.5; 53; 43Bet And ; 2.05; 3300;occ; 251; 0;12429
15;-1410.7; 16-JUL-2004 10:06:24; Dark ; 43.0; 146; 25Eta Tau ; 2.87; 15200;occ; 86; 0;12429
16;-1317.1; 16-JUL-2004 10:07:57; Dark ; 46.0; 13; 87Alp Tau ; 0.87; 3800;occ; 92; 0;12429
17;-1123.1; 16-JUL-2004 10:11:11; Dark ; 91.0; 105; 6Bet Ari ; 2.64; 8900;occ; 182; 0;12429
18; -937.8; 16-JUL-2004 10:14:16; Dark ; 51.0; 7; 19Bet Ori ; 0.10; 14000;occ; 102; 0;12429
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21; -206.7; 16-JUL-2004 10:26:28; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;12429
22; 161.2; 16-JUL-2004 10:32:35; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;12430
23; 368.3; 16-JUL-2004 10:36:03; Dark ; 39.0; 135; Bet Hyi ; 2.82; 5800;occ; 78; 0;12430
24; 688.4; 16-JUL-2004 10:41:23; Dark ; 58.5; 63; Bet Gru ; 2.15; 2800;occ; 117; 0;12430
25; 783.3; 16-JUL-2004 10:42:58; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;12430
26; 922.0; 16-JUL-2004 10:45:16; Dark ; 93.5; 18; 24Alp PsA ; 1.17; 9700;occ; 187; 0;12430
27; 1207.7; 16-JUL-2004 10:50:02; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;12430
28; 1322.6; 16-JUL-2004 10:51:57; Dark ; 42.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 85; 0;12430
29; 1436.4; 16-JUL-2004 10:53:51; Bright; 40.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 80; 0;12430
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2;	-3902.9;	16-JUL-2004	11:05:27;	Bright;	36.0;	59;	55Alp Oph	;	2.08;	8900;occ;	72;	0;	12430	
3;	-3547.7;	16-JUL-2004	11:11:22;	Bright;	36.5;	133;	40Zet Her	;	2.81;	6000;occ;	73;	0;	12430	
4;	-3457.4;	16-JUL-2004	11:12:53;	Bright;	42.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	84;	0;	12430	
5;	-3254.9;	16-JUL-2004	11:16:15;	Bright;	40.0;	69;	33Gam Dra	;	2.23;	3800;occ;	80;	0;	12430	
6;	-3058.6;	16-JUL-2004	11:19:32;	Bright;	38.0;	119;	14Eta Dra	;	2.73;	4700;occ;	76;	0;	12430	
7;	-2805.6;	16-JUL-2004	11:23:45;	Bright;	39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;	12430	
8;	-2594.1;	16-JUL-2004	11:27:16;	Bright;	36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	12430	
9;	-2391.0;	16-JUL-2004	11:30:39;	Bright;	53.5;	74;	11Bet Cas	;	2.27;	6600;occ;	107;	0;	12430	
10;	-2273.5;	16-JUL-2004	11:32:37;	Bright;	52.5;	68;	18Alp Cas	;	2.22;	4500;occ;	105;	0;	12430	
11;	-1999.6;	16-JUL-2004	11:37:11;	Bright;	42.5;	160;	23Gam Per	;	2.93;	4700;occ;	85;	0;	12430	
12;	-1920.9;	16-JUL-2004	11:38:29;	Bright;	47.5;	35;	33Alp Per	;	1.79;	6250;occ;	95;	0;	12430	
13;	-1800.9;	16-JUL-2004	11:40:29;	Bright;	63.5;	73;	57Gam1And	;	2.26;	13100;occ;	127;	0;	12430	
14;	-1627.3;	16-JUL-2004	11:43:23;	Dark	;	121.0;	53;	43Bet And	;	2.05;	3300;occ;	242;	0;	12430
15;	-1410.4;	16-JUL-2004	11:47:00;	Dark	;	45.5;	146;	25Eta Tau	;	2.87;	15200;occ;	91;	0;	12430
16;	-1316.4;	16-JUL-2004	11:48:34;	Dark	;	48.0;	13;	87Alp Tau	;	0.87;	3800;occ;	96;	0;	12430
17;	-1121.8;	16-JUL-2004	11:51:48;	Dark	;	90.5;	105;	6Bet Ari	;	2.64;	8900;occ;	181;	0;	12430
18;	-936.9;	16-JUL-2004	11:54:53;	Dark	;	52.0;	7;	19Bet Ori	;	0.10;	14000;occ;	104;	0;	12430
19;	-740.1;	16-JUL-2004	11:58:10;	Dark	;	40.5;	139;	9Bet Lep	;	2.83;	5600;occ;	81;	0;	12430
20;	-516.6;	16-JUL-2004	12:01:53;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12430
21;	-206.0;	16-JUL-2004	12:07:04;	Dark	;	42.0;	157;	The1Eri	;	2.91;	9300;occ;	84;	0;	12430
22;	161.1;	16-JUL-2004	12:13:11;	Dark	;	45.5;	9;	Alp Eri	;	0.45;	24000;occ;	91;	0;	12431
23;	369.0;	16-JUL-2004	12:16:39;	Dark	;	38.5;	135;	Bet Hyi	;	2.82;	5800;occ;	77;	0;	12431
24;	689.1;	16-JUL-2004	12:21:59;	Dark	;	56.5;	63;	Bet Gru	;	2.15;	2800;occ;	113;	0;	12431
25;	783.4;	16-JUL-2004	12:23:34;	Dark	;	52.5;	31;	Alp Gru	;	1.73;	15200;occ;	105;	0;	12431
26;	923.2;	16-JUL-2004	12:25:53;	Dark	;	86.5;	18;	24Alp PsA	;	1.17;	9700;occ;	173;	0;	12431
27;	1207.5;	16-JUL-2004	12:30:38;	Dark	;	43.5;	40;	The Sco	;	1.86;	7100;occ;	87;	0;	12431
28;	1322.8;	16-JUL-2004	12:32:33;	Dark	;	44.0;	38;	20Eps Sgr	;	1.84;	11000;occ;	88;	0;	12431
29;	1433.7;	16-JUL-2004	12:34:24;	Bright;	43.0;	57;	34Sig Sgr	;	2.07;	26000;occ;	86;	0;	12431	
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2;	-4041.4;	16-JUL-2004	12:43:45;	Bright;	40.0;	126;	60Bet Oph	;	2.77;	4250;occ;	80;	0;	12431	
3;	-3903.5;	16-JUL-2004	12:46:02;	Bright;	39.5;	59;	55Alp Oph	;	2.08;	8900;occ;	79;	0;	12431	
4;	-3547.5;	16-JUL-2004	12:51:59;	Bright;	39.0;	133;	40Zet Her	;	2.81;	6000;occ;	78;	0;	12431	
5;	-3458.8;	16-JUL-2004	12:53:27;	Bright;	42.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	84;	0;	12431	
6;	-3257.8;	16-JUL-2004	12:56:48;	Bright;	42.5;	69;	33Gam Dra	;	2.23;	3800;occ;	85;	0;	12431	
7;	-3059.6;	16-JUL-2004	13:00:06;	Bright;	39.0;	119;	14Eta Dra	;	2.73;	4700;occ;	78;	0;	12431	
8;	-2806.0;	16-JUL-2004	13:04:20;	Bright;	40.5;	60;	7Bet UMi	;	2.08;	3950;occ;	81;	0;	12431	
9;	-2595.1;	16-JUL-2004	13:07:51;	Bright;	38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	12431	
10;	-2391.6;	16-JUL-2004	13:11:14;	Bright;	53.5;	74;	11Bet Cas	;	2.27;	6600;occ;	107;	0;	12431	
11;	-2274.3;	16-JUL-2004	13:13:12;	Bright;	53.0;	68;	18Alp Cas	;	2.22;	4500;occ;	106;	0;	12431	
12;	-1999.5;	16-JUL-2004	13:17:47;	Bright;	43.5;	160;	23Gam Per	;	2.93;	4700;occ;	87;	0;	12431	
13;	-1918.6;	16-JUL-2004	13:19:07;	Bright;	44.5;	35;	33Alp Per	;	1.79;	6250;occ;	89;	0;	12431	
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16;	-1410.2;	16-JUL-2004	13:27:36;	Dark	;	46.5;	146;	25Eta Tau	;	2.87;	15200;occ;	93;	0;	12431
17;	-1316.7;	16-JUL-2004	13:29:09;	Dark	;	53.5;	13;	87Alp Tau	;	0.87;	3800;occ;	107;	0;	12431
18;	-1120.6;	16-JUL-2004	13:32:25;	Dark	;	93.0;	105;	6Bet Ari	;	2.64;	8900;occ;	186;	0;	12431
19;	-937.4;	16-JUL-2004	13:35:29;	Dark	;	48.5;	7;	19Bet Ori	;	0.10;	14000;occ;	97;	0;	12431
20;	-739.5;	16-JUL-2004	13:38:47;	Dark	;	42.5;	139;	9Bet Lep	;	2.83;	5600;occ;	85;	0;	12431
21;	-513.8;	16-JUL-2004	13:42:32;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12431
22;	-205.9;	16-JUL-2004	13:47:40;	Dark	;	44.0;	157;	The1Eri	;	2.91;	9300;occ;	88;	0;	12431
23;	161.8;	16-JUL-2004	13:53:48;	Dark	;	44.5;	9;	Alp Eri	;	0.45;	24000;occ;	89;	0;	12432
24;	368.8;	16-JUL-2004	13:57:15;	Dark	;	38.0;	135;	Bet Hyi	;	2.82;	5800;occ;	76;	0;	12432
25;	689.5;	16-JUL-2004	14:02:36;	Dark	;	66.0;	63;	Bet Gru	;	2.15;	2800;occ;	132;	0;	12432
26;	783.6;	16-JUL-2004	14:04:10;	Dark	;	56.5;	31;	Alp Gru	;	1.73;	15200;occ;	113;	0;	12432
27;	925.4;	16-JUL-2004	14:06:31;	Dark	;	85.5;	18;	24Alp PsA	;	1.17;	9700;occ;	171;	0;	12432
28;	1208.1;	16-JUL-2004	14:11:14;	Dark	;	43.0;	40;	The Sco	;	1.86;	7100;occ;	86;	0;	12432
29;	1322.7;	16-JUL-2004	14:13:09;	Dark	;	42.5;	38;	20Eps Sgr	;	1.84;	11000;occ;	85;	0;	12432
30;	1435.8;	16-JUL-2004	14:15:02;	Bright;	41.5;	57;	34Sig Sgr	;	2.07;	26000;occ;	83;	0;	12432	

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2;	-4040.7;	16-JUL-2004	14:24:21;	Bright;	39.0;	126;	60Bet Oph	;	2.77;	4250;occ;	78;	0;	12432
3;	-3905.7;	16-JUL-2004	14:26:36;	Bright;	38.5;	59;	55Alp Oph	;	2.08;	8900;occ;	77;	0;	12432
4;	-3547.8;	16-JUL-2004	14:32:34;	Bright;	37.5;	133;	40Zet Her	;	2.81;	6000;occ;	75;	0;	12432
5;	-3459.0;	16-JUL-2004	14:34:03;	Bright;	38.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	77;	0;	12432

6;	-3257.8;	16-JUL-2004	14:37:24;	Bright;	40.0;	69;	33Gam Dra	; 2.23;	3800;occ;	80;	0;	12432
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8;	-2807.5;	16-JUL-2004	14:44:54;	Bright;	37.5;	60;	7Bet UMi	; 2.08;	3950;occ;	75;	0;	12432
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14;	-1800.7;	16-JUL-2004	15:01:41;	Bright;	64.0;	73;	57Gam1And	; 2.26;	13100;occ;	128;	0;	12432
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16;	-1409.9;	16-JUL-2004	15:08:12;	Dark	; 47.0;	146;	25Eta Tau	; 2.87;	15200;occ;	94;	0;	12432
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19;	-938.9;	16-JUL-2004	15:16:03;	Dark	; 47.0;	7;	19Bet Ori	; 0.10;	14000;occ;	94;	0;	12432
20;	-739.3;	16-JUL-2004	15:19:23;	Dark	; 40.5;	139;	9Bet Lep	; 2.83;	5600;occ;	81;	0;	12432
21;	-511.0;	16-JUL-2004	15:23:11;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	12432
22;	-205.9;	16-JUL-2004	15:28:16;	Dark	; 44.5;	157;	The1Eri	; 2.91;	9300;occ;	89;	0;	12432
23;	161.8;	16-JUL-2004	15:34:24;	Dark	; 45.0;	9;	Alp Eri	; 0.45;	24000;occ;	90;	0;	12433
24;	366.6;	16-JUL-2004	15:37:49;	Dark	; 43.0;	135;	Bet Hyi	; 2.82;	5800;occ;	86;	0;	12433
25;	690.6;	16-JUL-2004	15:43:13;	Dark	; 54.0;	63;	Bet Gru	; 2.15;	2800;occ;	108;	0;	12433
26;	784.7;	16-JUL-2004	15:44:47;	Dark	; 49.5;	31;	Alp Gru	; 1.73;	15200;occ;	99;	0;	12433
27;	926.4;	16-JUL-2004	15:47:08;	Dark	; 83.5;	18;	24Alp PsA	; 1.17;	9700;occ;	167;	0;	12433
28;	1207.8;	16-JUL-2004	15:51:50;	Dark	; 44.5;	40;	The Sco	; 1.86;	7100;occ;	89;	0;	12433
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3;	1323.6;	16-JUL-2004	20:55:34;	Dark	; 43.5;	38;	20Eps Sgr	; 1.84;	11000;occ;	87;	0;	12436
4;	1436.5;	16-JUL-2004	20:57:27;	Bright;	41.0;	57;	34Sig Sgr	; 2.07;	26000;occ;	82;	0;	12436
5;	1549.6;	16-JUL-2004	20:59:20;	Bright;	77.0;	142;	49Del Cap	; 2.85;	8900;occ;	154;	0;	12436
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7;	2133.7;	16-JUL-2004	21:09:04;	Bright;	37.5;	59;	55Alp Oph	; 2.08;	8900;occ;	75;	0;	12436
8;	2489.8;	16-JUL-2004	21:15:00;	Bright;	39.0;	133;	40Zet Her	; 2.81;	6000;occ;	78;	0;	12436
9;	2577.4;	16-JUL-2004	21:16:27;	Bright;	41.0;	5;	3Alp Lyr	; 0.03;	11000;occ;	82;	0;	12436
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11;	2978.1;	16-JUL-2004	21:23:08;	Bright;	39.0;	119;	14Eta Dra	; 2.73;	4700;occ;	78;	0;	12436
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2;-5150.4; 25-JUL-2004 19:24:55; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;12564

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5;-4575.4; 25-JUL-2004 19:34:30; Bright; 40.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 81; 0;12564
6;-4475.3; 25-JUL-2004 19:36:10; Bright; 59.5; 142; 49Del Cap ; 2.85; 8900;occ; 119; 0;12564
7;-4190.1; 25-JUL-2004 19:40:55; Bright; 62.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 124; 0;12564
8;-3709.9; 25-JUL-2004 19:48:55; Bright; 71.5; 61; 8Eps Peg ; 2.10; 3900;occ; 143; 0;12564
9;-3470.4; 25-JUL-2004 19:52:55; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;12564
10;-3321.1; 25-JUL-2004 19:55:24; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;12564
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19;-1938.7; 25-JUL-2004 20:18:26; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;12564
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21;-1660.8; 25-JUL-2004 20:23:04; Dark ; 161.0; 53; 43Bet And ; 2.05; 3300;occ; 322; 0;12564
22;-1373.5; 25-JUL-2004 20:27:52; Dark ; 53.0; 146; 25Eta Tau ; 2.87; 15200;occ; 106; 0;12564
23;-1278.2; 25-JUL-2004 20:29:27; Dark ; 56.5; 13; 87Alp Tau ; 0.87; 3800;occ; 113; 0;12564
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28;-711.8; 25-JUL-2004 20:38:53; Dark ; 45.0; 139; 9Bet Lep ; 2.83; 5600;occ; 90; 0;12564
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33; 247.6; 25-JUL-2004 20:54:53; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;12565
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36; 677.8; 25-JUL-2004 21:02:03; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;12565
37; 885.7; 25-JUL-2004 21:05:31; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;12565
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28; 4004.3; 26-JUL-2004 01:18:41; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;12567
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31; 4373.8; 26-JUL-2004 01:24:51; Dark ; 192.0; 53; 43Bet And ; 2.05; 3300;occ; 384; 0;12567

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35; 4995.4; 26-JUL-2004 01:35:12; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;12567
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16; 1561.4; 26-JUL-2004 02:18:34; Bright; 60.5; 142; 49Del Cap ; 2.85; 8900;occ; 121; 0;12568
17; 1844.0; 26-JUL-2004 02:23:17; Bright; 63.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 126; 0;12568
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20; 2320.6; 26-JUL-2004 02:31:13; Bright; 79.5; 61; 8Eps Peg ; 2.10; 3900;occ; 159; 0;12568
21; 2563.0; 26-JUL-2004 02:35:16; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;12568
22; 2713.5; 26-JUL-2004 02:37:46; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;12568
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25; 3126.4; 26-JUL-2004 02:44:39; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;12568
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29; 2163.2; 26-JUL-2004 04:09:12; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;12569
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31; 2566.1; 26-JUL-2004 04:15:55; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;12569
32; 2713.9; 26-JUL-2004 04:18:23; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;12569

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38; 3541.1; 26-JUL-2004 04:32:10; Bright; 52.5; 74; 11Bet Cas ; 2.27; 6600;occ; 105; 0;12569
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