

GOMOS Daily Report 17-SEP-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	19SEP2004 05:01:25
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (17SEP2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (18SEP2004 00:00:00)

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

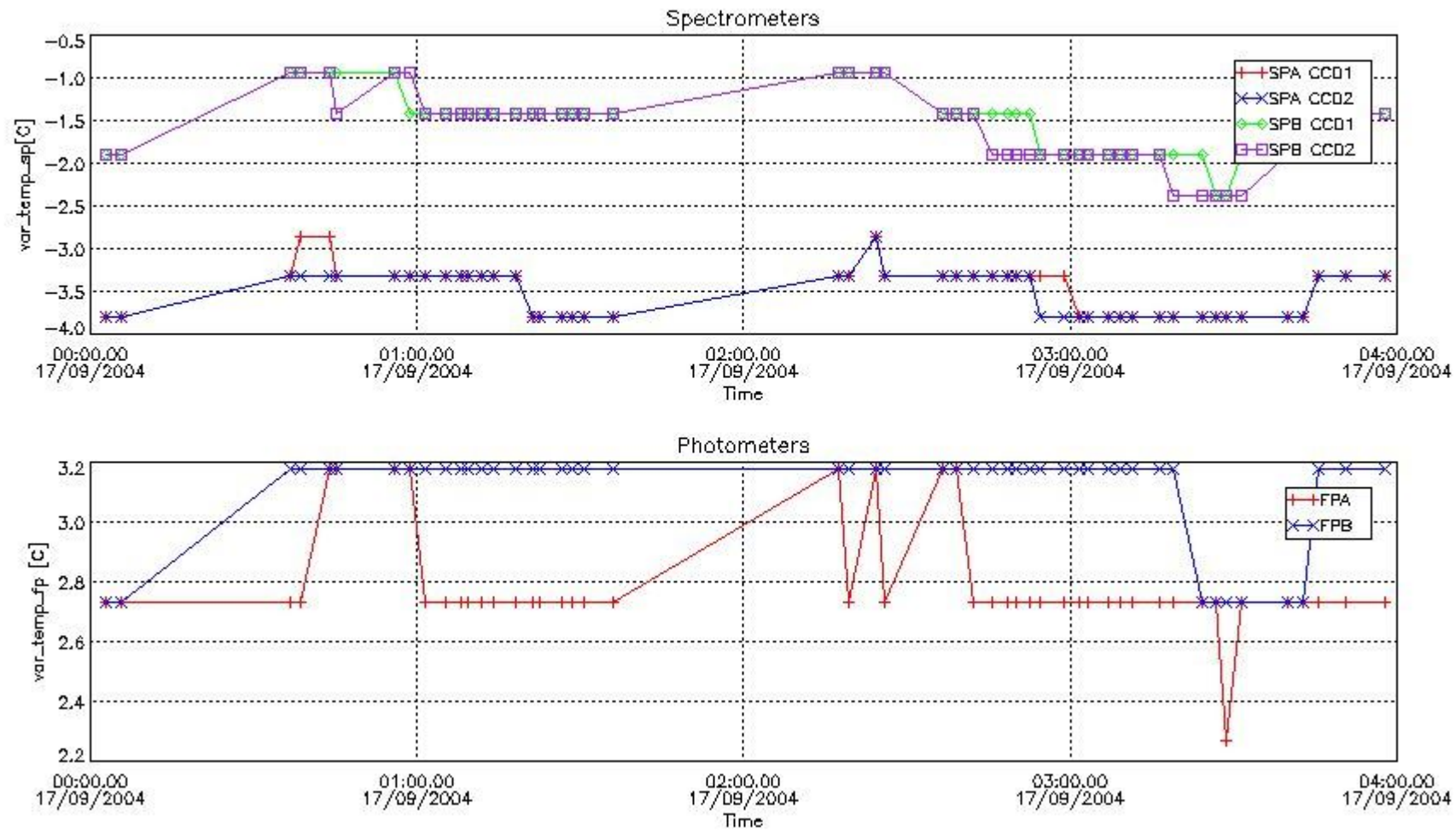
2. Summary of products arrived in PCF (Product Control Facility)

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

2.2 Summary of processed GOM_TRA_1P products

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20040917_000254_000000362030_00245_13325_0022.N1	17-SEP-2004 00:02:54	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	13325	No
GOM_TRA_1PNPDE20040917_000532_000000672030_00245_13325_0023.N1	17-SEP-2004 00:05:32	Bright	66.500	35	33Alp Per	1.7950	6250.0	133	13325	No
GOM_TRA_1PNPDE20040917_003642_000000442030_00245_13325_0000.N1	17-SEP-2004 00:36:42	Dark	44.000	132	15Rho Pup	2.8030	6900.0	88	13325	No
GOM_TRA_1PNPDE20040917_003834_000000652030_00245_13325_0001.N1	17-SEP-2004 00:38:34	Dark	64.500	1	9Alp CMa	-1.4400	11000.	129	13325	No
GOM_TRA_1PNPDE20040917_004348_000000412030_00245_13325_0002.N1	17-SEP-2004 00:43:48	Dark	41.000	46	Del Vel	1.9540	10600.	82	13325	No
GOM_TRA_1PNPDE20040917_004519_000000452030_00245_13325_0003.N1	17-SEP-2004 00:45:19	Dark	44.500	41	Eps Car	1.8600	4100.0	89	13325	No
GOM_TRA_1PNPDE20040917_005556_000000392030_00246_13326_0004.N1	17-SEP-2004 00:55:56	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	13326	No
GOM_TRA_1PNPDE20040917_005832_000000562030_00246_13326_0005.N1	17-SEP-2004 00:58:32	Dark	56.000	9	Alp Eri	0.45300	24000.	112	13326	No
GOM_TRA_1PNPDE20040917_010127_000000442030_00246_13326_0006.N1	17-SEP-2004 01:01:27	Dark	43.500	148	Alp Tuc	2.8780	4100.0	87	13326	No
GOM_TRA_1PNPDE20040917_010511_000000412030_00246_13326_0007.N1	17-SEP-2004 01:05:11	Twilight	41.000	31	Alp Gru	1.7340	15200.	82	13326	No
GOM_TRA_1PNPDE20040917_010759_000000392030_00246_13326_0008.N1	17-SEP-2004 01:07:59	Bright	38.500	172	Gam Gru	3.0030	13100.	77	13326	No
GOM_TRA_1PNPDE20040917_010925_000000432030_00246_13326_0009.N1	17-SEP-2004 01:09:25	Bright	42.500	18	24Alp PsA	1.1660	9700.0	85	13326	No
GOM_TRA_1PNPDE20040917_011149_000000602030_00246_13326_0010.N1	17-SEP-2004 01:11:49	Bright	59.500	52	16Bet Cet	2.0370	4500.0	119	13326	No
GOM_TRA_1PNPDE20040917_011355_000000412030_00246_13326_0011.N1	17-SEP-2004 01:13:55	Bright	41.000	142	49Del Cap	2.8500	8900.0	82	13326	No
GOM_TRA_1PNPDE20040917_011807_000000402030_00246_13326_0012.N1	17-SEP-2004 01:18:07	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	13326	No
GOM_TRA_1PNPDE20040917_012108_000000392030_00246_13326_0013.N1	17-SEP-2004 01:21:08	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	13326	No
GOM_TRA_1PNPDE20040917_012235_000000422030_00246_13326_0014.N1	17-SEP-2004 01:22:35	Bright	41.500	90	54Alp Peg	2.4870	11000.	83	13326	No
GOM_TRA_1PNPDE20040917_012626_000000402030_00246_13326_0015.N1	17-SEP-2004 01:26:26	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	13326	No
GOM_TRA_1PNPDE20040917_012830_000000372030_00246_13326_0016.N1	17-SEP-2004 01:28:30	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	13326	No
GOM_TRA_1PNPDE20040917_013039_000000372030_00246_13326_0017.N1	17-SEP-2004 01:30:39	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	13326	No
GOM_TRA_1PNPDE20040917_013552_000000402030_00246_13326_0018.N1	17-SEP-2004 01:35:52	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	13326	No
GOM_TRA_1PNPDE20040917_021719_000000452030_00246_13326_0000.N1	17-SEP-2004 02:17:19	Dark	44.500	132	15Rho Pup	2.8030	6900.0	89	13326	No
GOM_TRA_1PNPDE20040917_021909_000000662030_00246_13326_0001.N1	17-SEP-2004 02:19:09	Dark	65.500	1	9Alp CMa	-1.4400	11000.	131	13326	No
GOM_TRA_1PNPDE20040917_022424_000000442030_00246_13326_0002.N1	17-SEP-2004 02:24:24	Dark	43.500	46	Del Vel	1.9540	10600.	87	13326	No
GOM_TRA_1PNPDE20040917_022556_000000472030_00246_13326_0003.N1	17-SEP-2004 02:25:56	Dark	47.000	41	Eps Car	1.8600	4100.0	94	13326	No
GOM_TRA_1PNPDE20040917_023632_000000412030_00247_13327_0004.N1	17-SEP-2004 02:36:32	Dark	40.500	135	Bet Hyi	2.8200	5800.0	81	13327	No
GOM_TRA_1PNPDE20040917_023909_000000462030_00247_13327_0005.N1	17-SEP-2004 02:39:09	Dark	46.000	9	Alp Eri	0.45300	24000.	92	13327	No
GOM_TRA_1PNPDE20040917_024204_000000412030_00247_13327_0006.N1	17-SEP-2004 02:42:04	Dark	40.500	148	Alp Tuc	2.8780	4100.0	81	13327	No
GOM_TRA_1PNPDE20040917_024547_000000422030_00247_13327_0007.N1	17-SEP-2004 02:45:47	Twilight	42.000	31	Alp Gru	1.7340	15200.	84	13327	No
GOM_TRA_1PNPDE20040917_024835_000000392030_00247_13327_0008.N1	17-SEP-2004 02:48:35	Bright	38.500	172	Gam Gru	3.0030	13100.	77	13327	No
GOM_TRA_1PNPDE20040917_025000_000000442030_00247_13327_0009.N1	17-SEP-2004 02:50:00	Bright	43.500	18	24Alp PsA	1.1660	9700.0	87	13327	No
GOM_TRA_1PNPDE20040917_025226_000000622030_00247_13327_0010.N1	17-SEP-2004 02:52:26	Bright	62.000	52	16Bet Cet	2.0370	4500.0	124	13327	No
GOM_TRA_1PNPDE20040917_025431_000000412030_00247_13327_0011.N1	17-SEP-2004 02:54:31	Bright	41.000	142	49Del Cap	2.8500	8900.0	82	13327	No
GOM_TRA_1PNPDE20040917_025844_000000402030_00247_13327_0012.N1	17-SEP-2004 02:58:44	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	13327	No
GOM_TRA_1PNPDE20040917_030144_000000392030_00247_13327_0013.N1	17-SEP-2004 03:01:44	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	13327	No
GOM_TRA_1PNPDE20040917_030311_000000422030_00247_13327_0014.N1	17-SEP-2004 03:03:11	Bright	41.500	90	54Alp Peg	2.4870	11000.	83	13327	No
GOM_TRA_1PNPDE20040917_030700_000000432030_00247_13327_0015.N1	17-SEP-2004 03:07:00	Bright	42.500	93	53Bet Peg	2.5200	3100.0	85	13327	No
GOM_TRA_1PNPDE20040917_030906_000000382030_00247_13327_0016.N1	17-SEP-2004 03:09:06	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	13327	No
GOM_TRA_1PNPDE20040917_031115_000000382030_00247_13327_0017.N1	17-SEP-2004 03:11:15	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	13327	No
GOM_TRA_1PNPDE20040917_031628_000000392030_00247_13327_0018.N1	17-SEP-2004 03:16:28	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	13327	No
GOM_TRA_1PNPDE20040917_031859_000000432030_00247_13327_0019.N1	17-SEP-2004 03:18:59	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	13327	No
GOM_TRA_1PNPDE20040917_032406_000000402030_00247_13327_0020.N1	17-SEP-2004 03:24:06	Bright	40.000	49	1Alp UMi	1.9900	6300.0	80	13327	No
GOM_TRA_1PNPDE20040917_032641_000000662030_00247_13327_0000.N1	17-SEP-2004 03:26:41	Bright	66.000	35	33Alp Per	1.7950	6250.0	132	13327	No
GOM_TRA_1PNPDE20040917_032836_000000712030_00247_13327_0001.N1	17-SEP-2004 03:28:36	Bright	70.500	175	39Del Per	3.0100	19400.	141	13327	No
GOM_TRA_1PNPDE20040917_033131_000000392030_00247_13327_0002.N1	17-SEP-2004 03:31:31	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	13327	No
GOM_TRA_1PNPDE20040917_033949_000000642030_00247_13327_0003.N1	17-SEP-2004 03:39:49	Bright	64.000	107	37The Aur	2.6490	11000.	128	13327	No
GOM_TRA_1PNPDE20040917_034253_000000482030_00247_13327_0004.N1	17-SEP-2004 03:42:53	Twilight	47.500	17	78Bet Gem	1.1610	4500.0	95	13327	No
GOM_TRA_1PNPDE20040917_034538_000001292030_00247_13327_0005.N1	17-SEP-2004 03:45:38	Twilight	129.00	28	12Bet Tau	1.6500	15200.	258	13327	No
GOM_TRA_1PNPDE20040917_035030_000000572030_00247_13327_0006.N1	17-SEP-2004 03:50:30	Twilight	57.000	8	10Alp CMI	0.40000	6500.0	114	13327	No

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



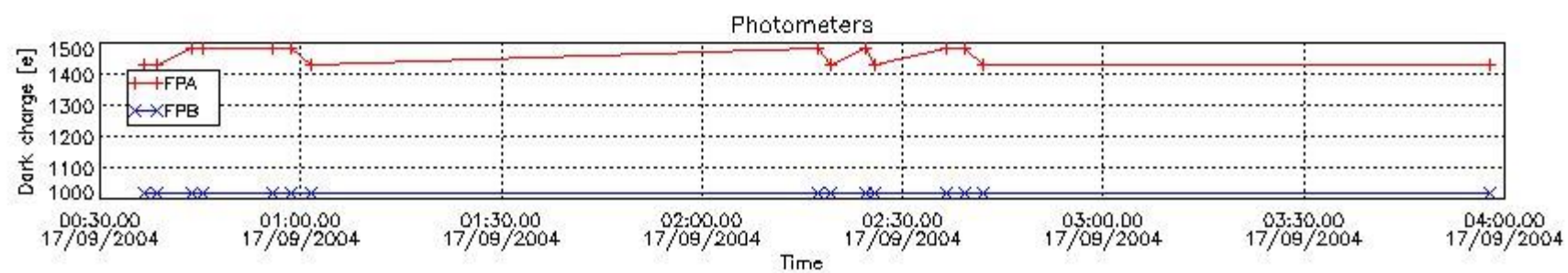
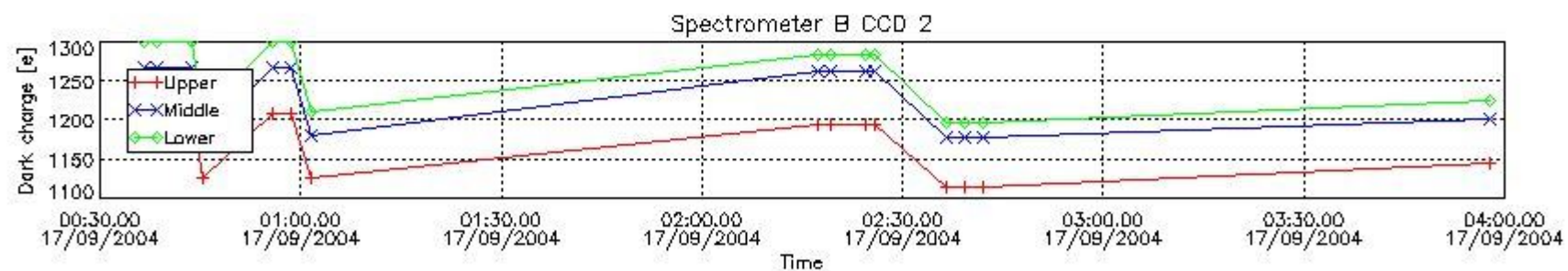
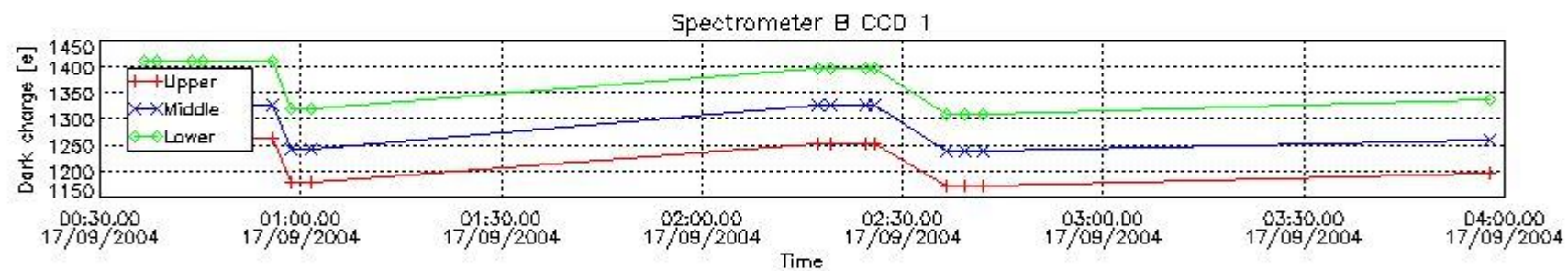
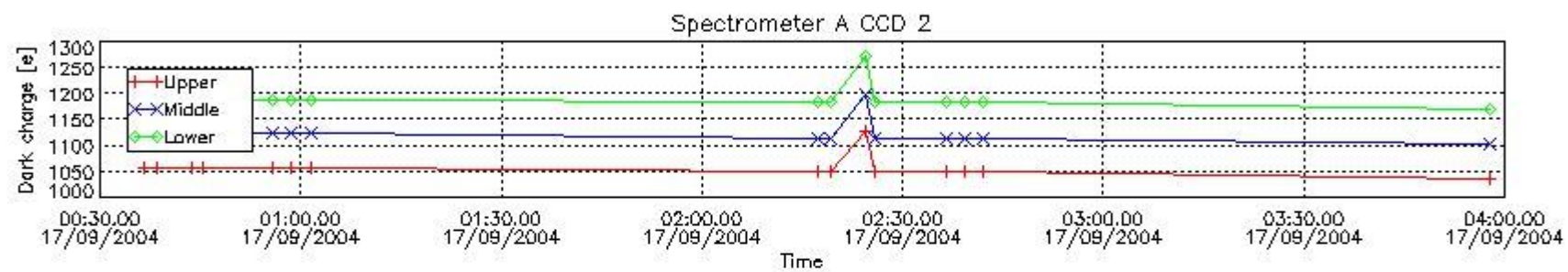
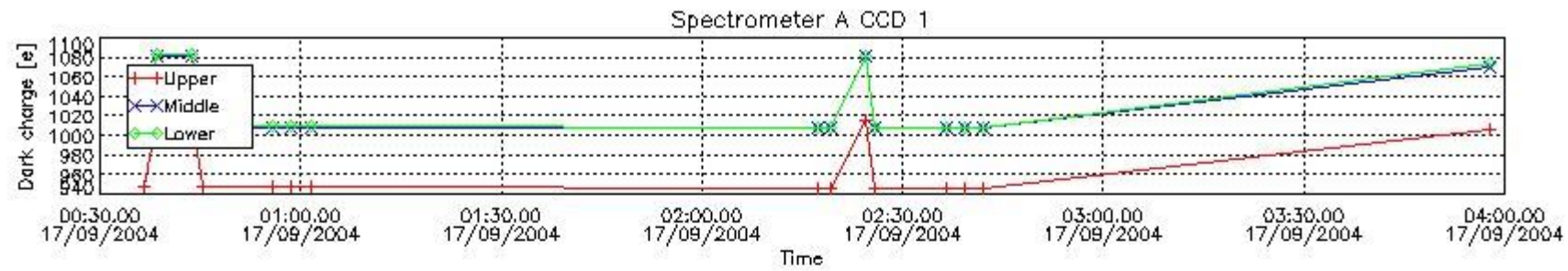
4. Overview of dark signal processing per product

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



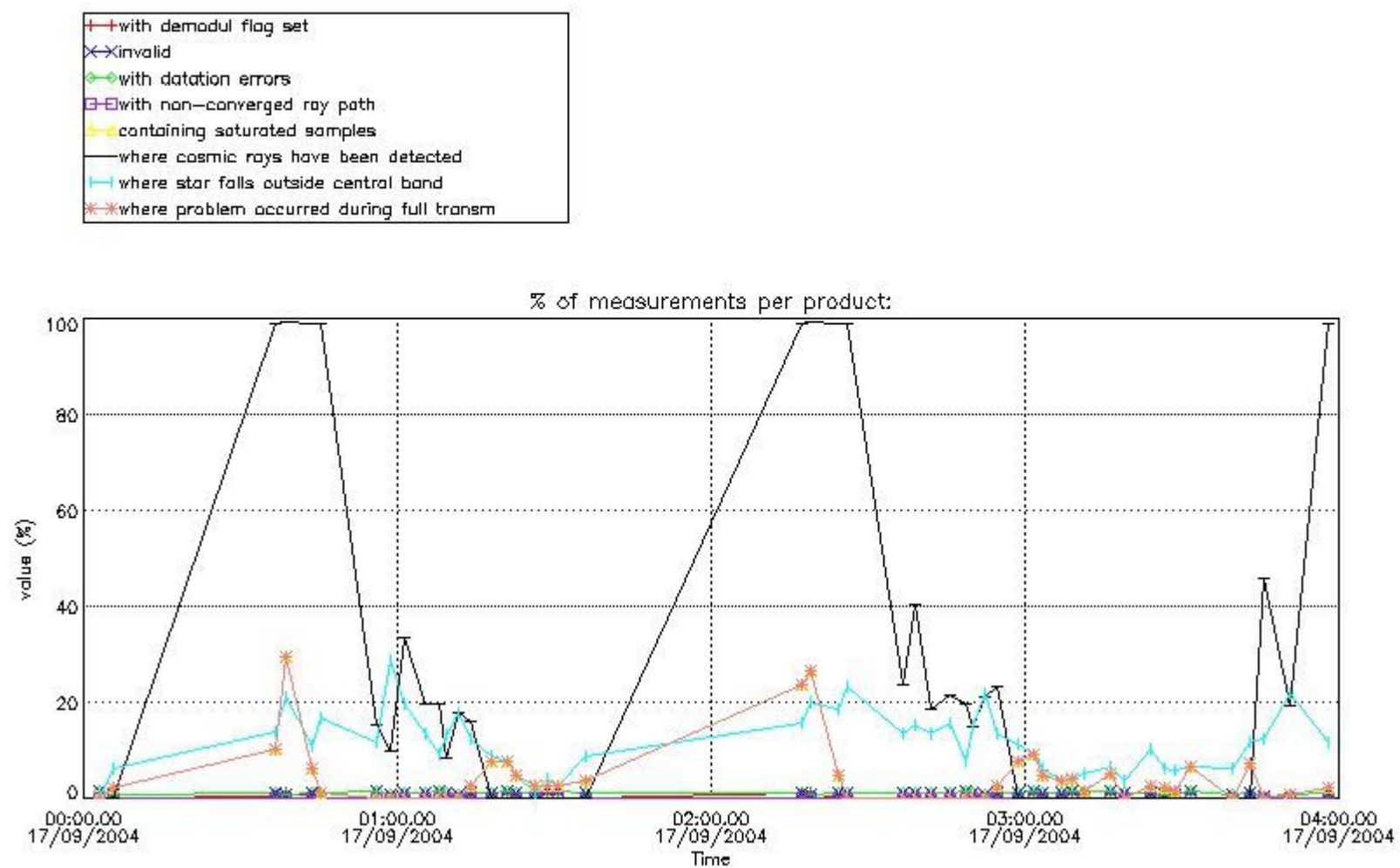
5. Demodulation flag and quality information monitoring

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.

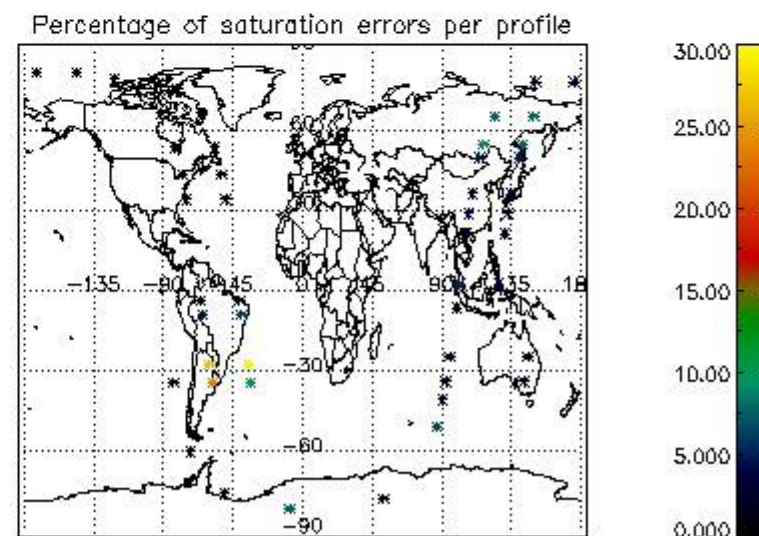
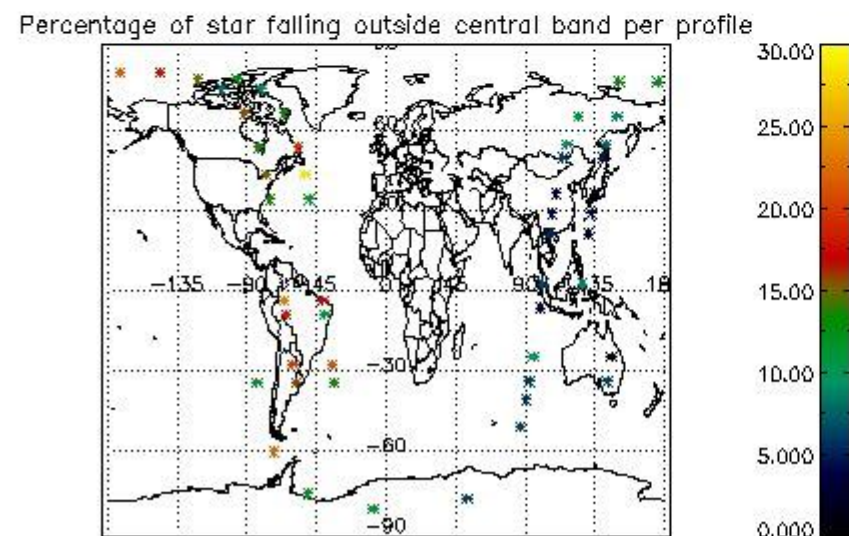
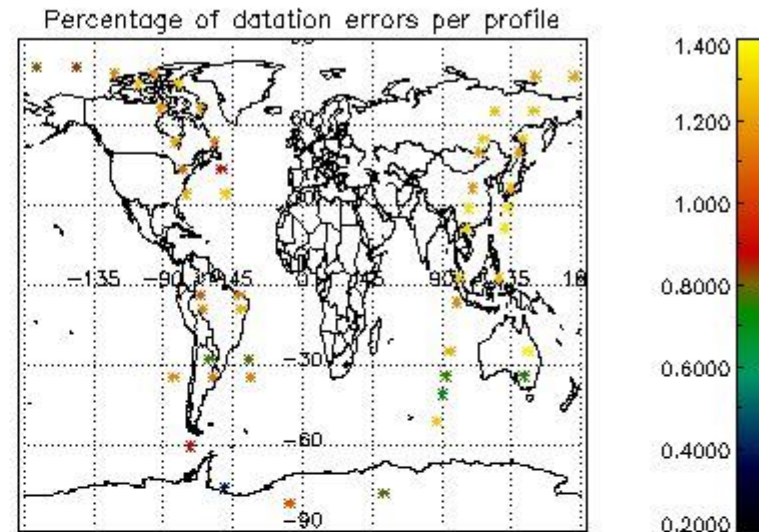
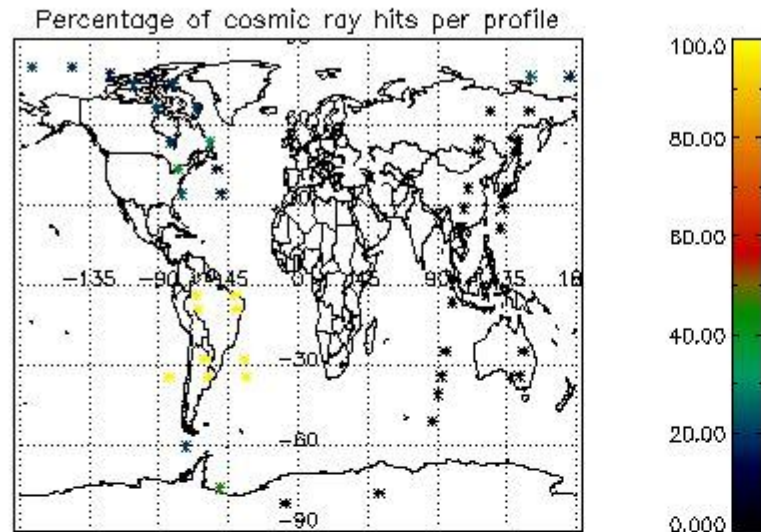
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.0000 %
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)



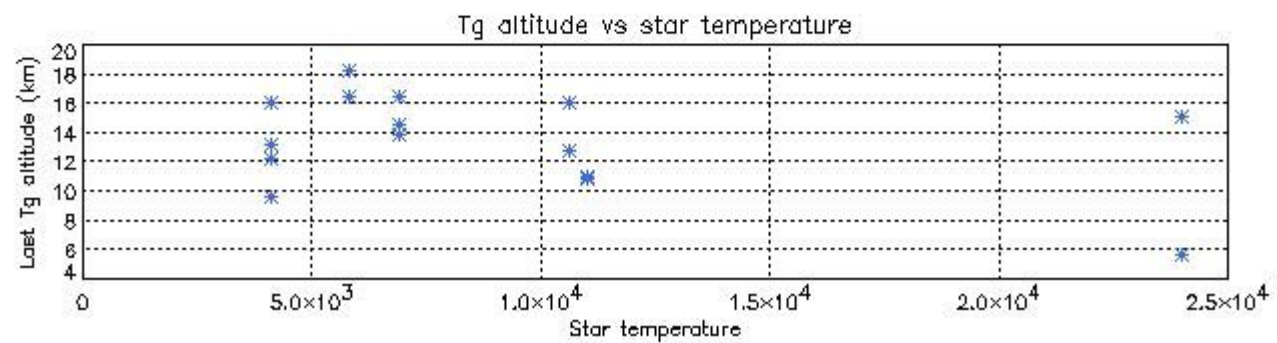
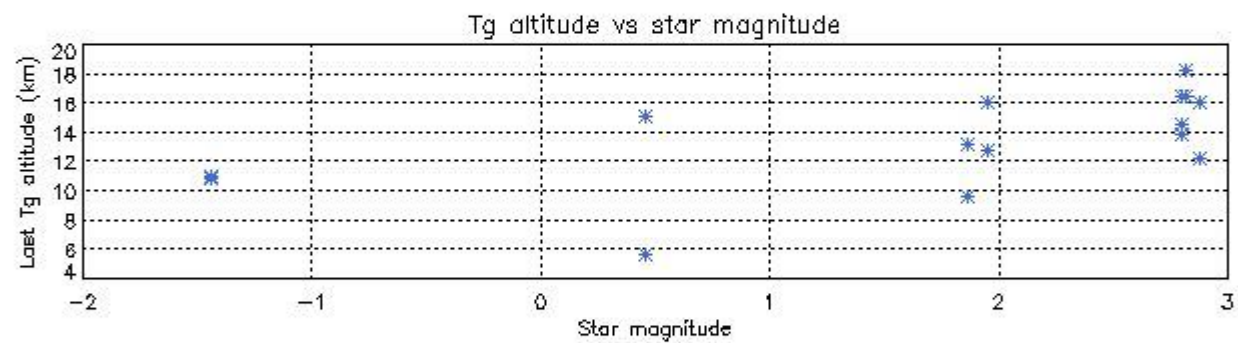
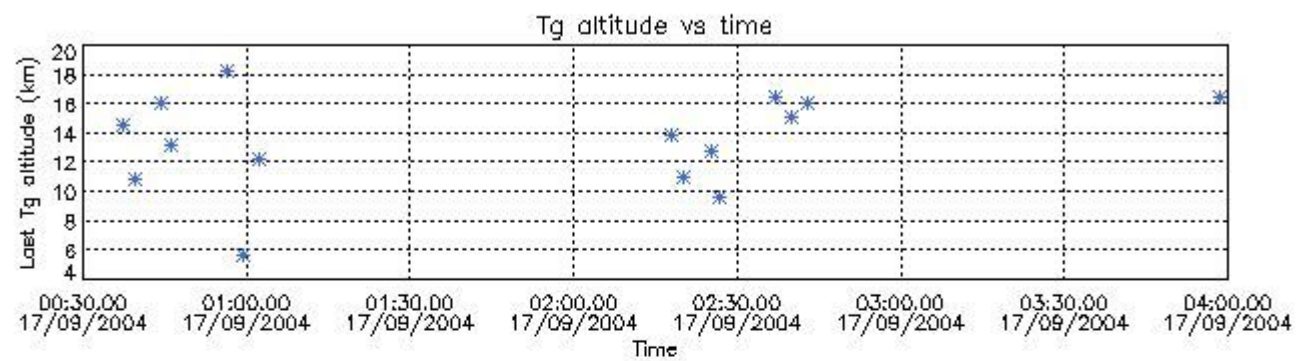
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.468	19.195	14.229
St. deviation:	3.2438	3.5650	2.4454
Maximum:	18.223	26.908	15.743
Minimum:	5.6900	10.670	9.9911
Number of data:	15.000	30.000	5.0000

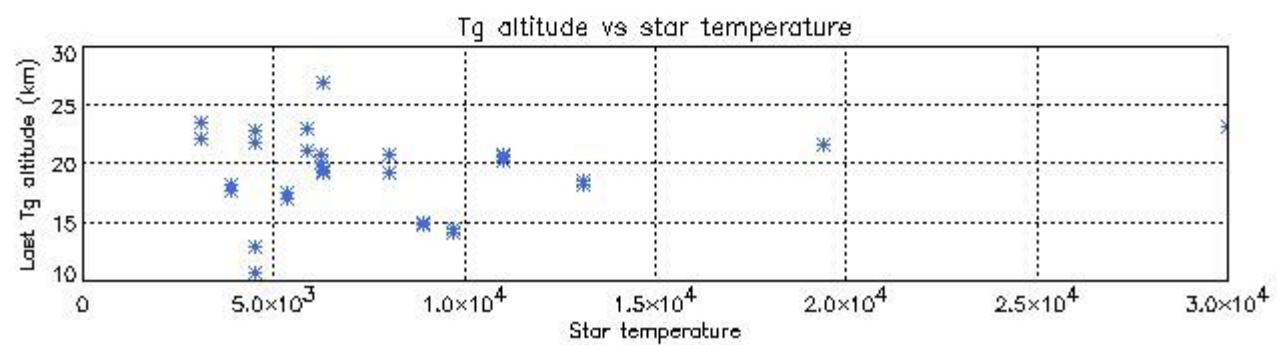
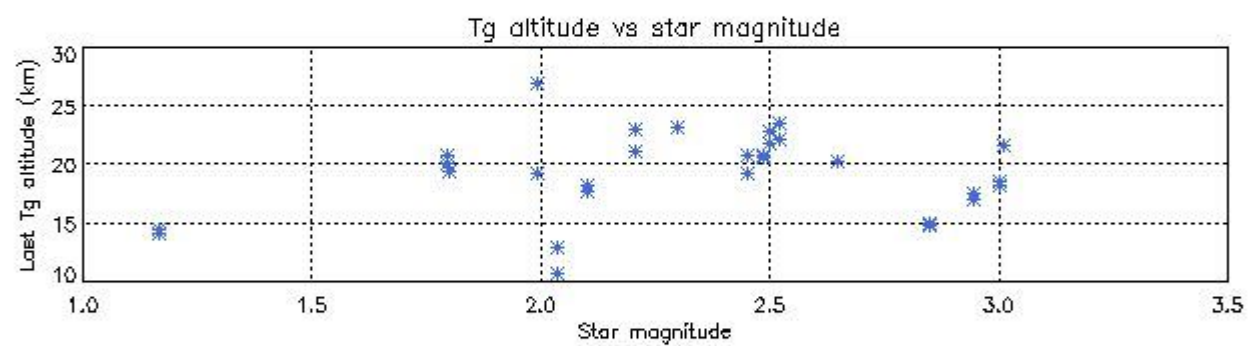
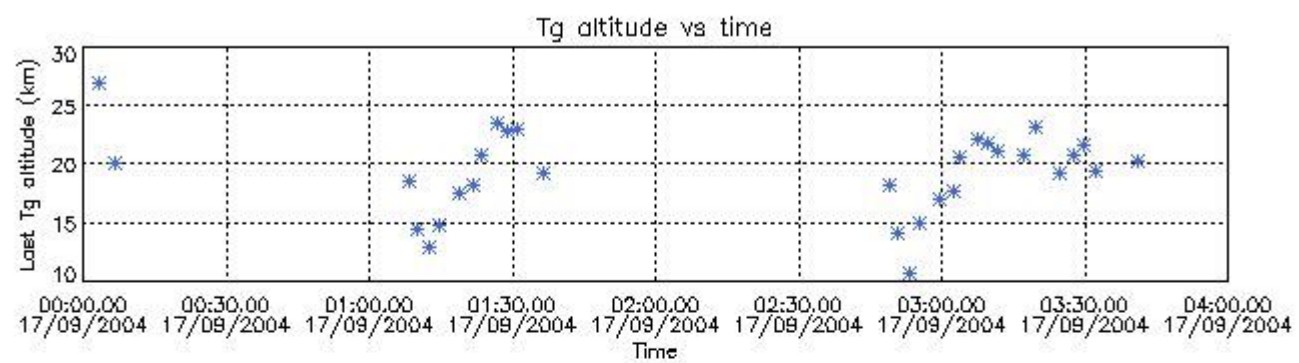
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



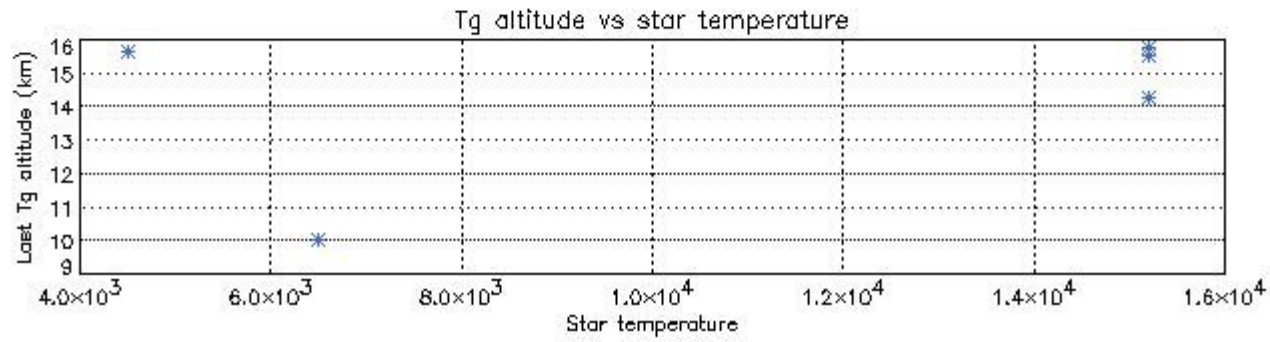
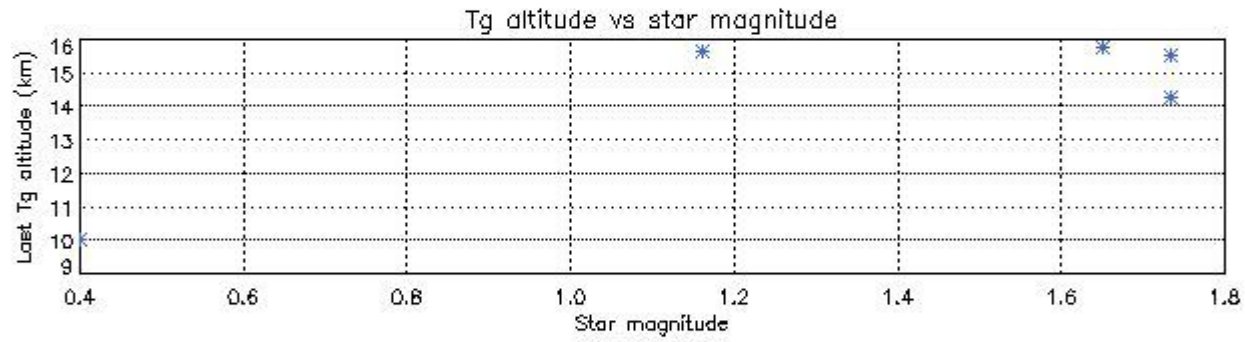
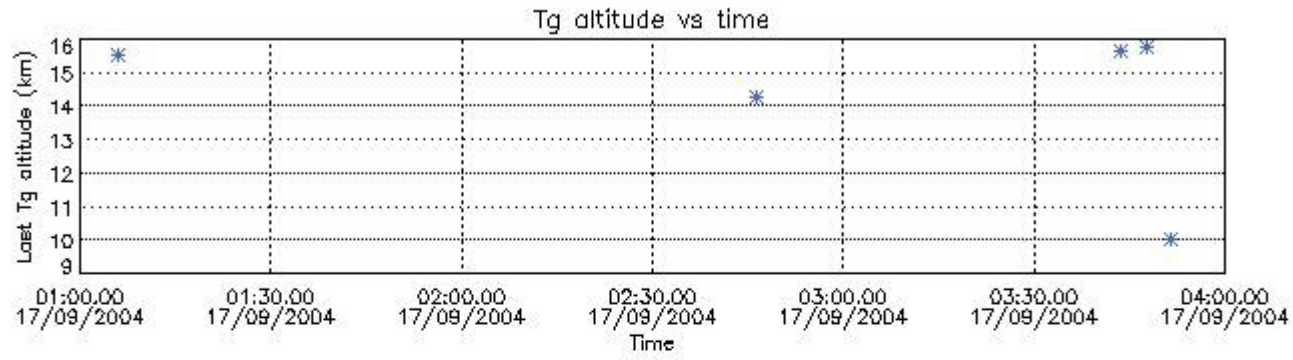
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

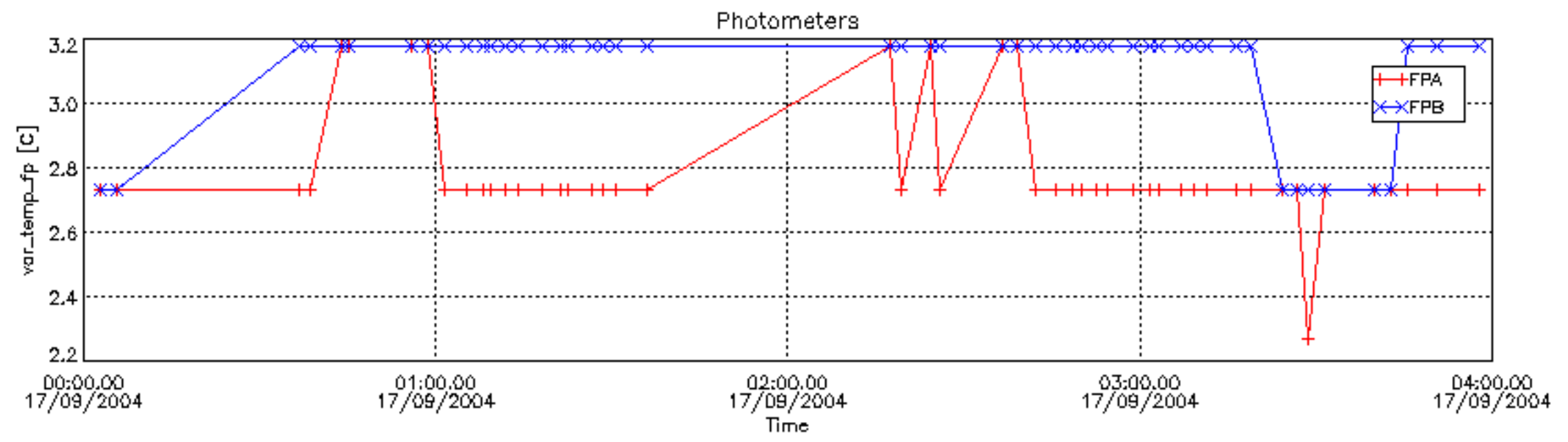
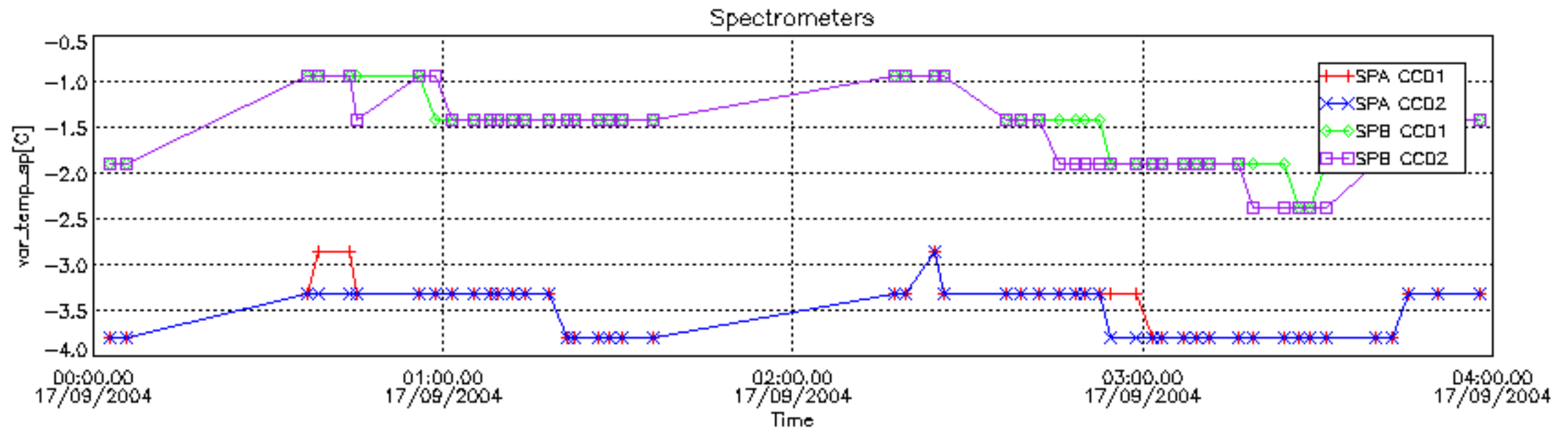
Tangent altitude at which the star is lost

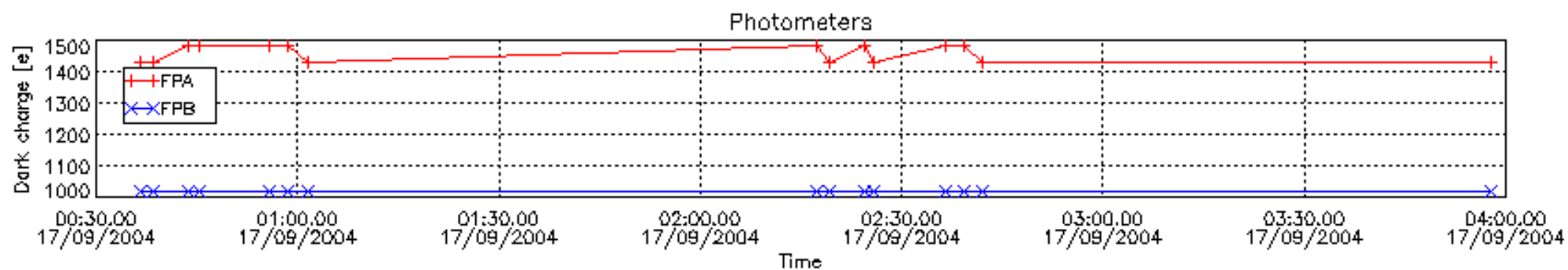
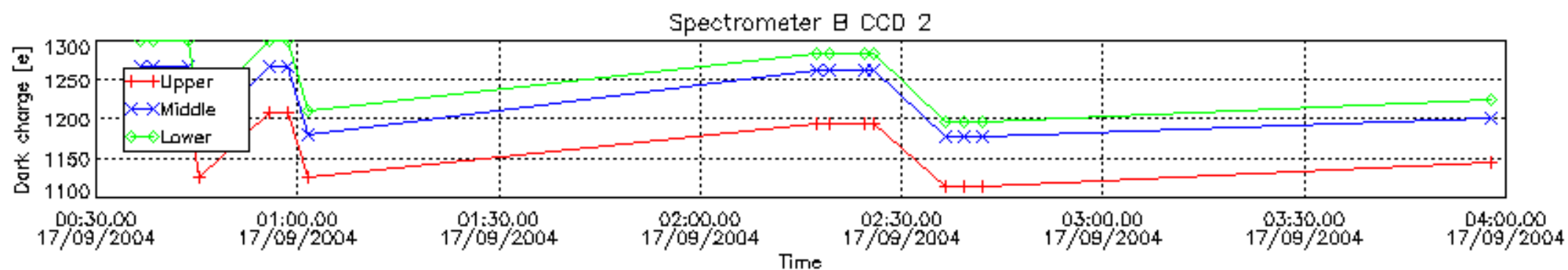
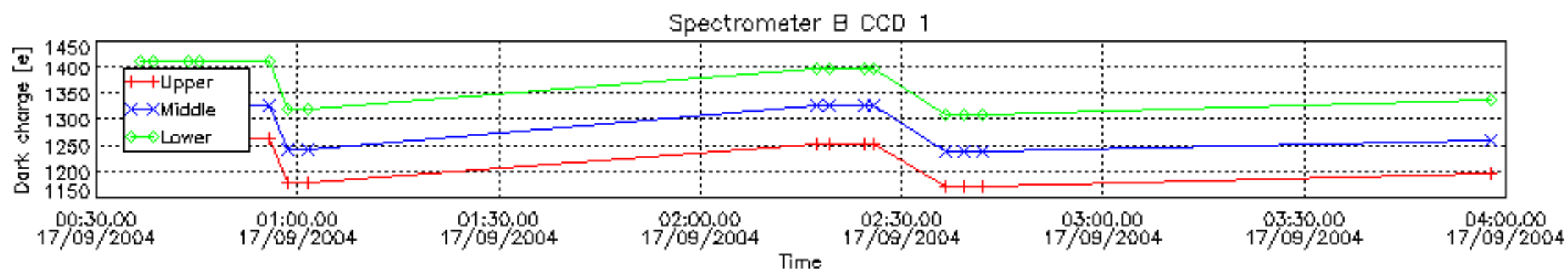
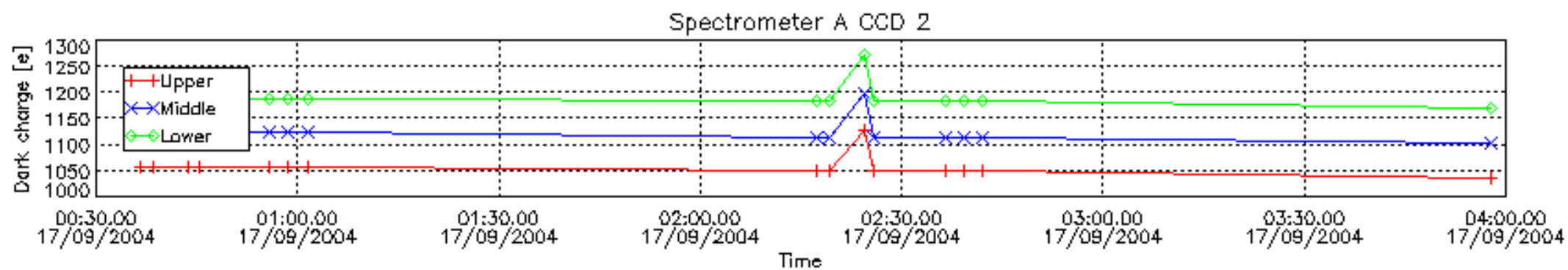
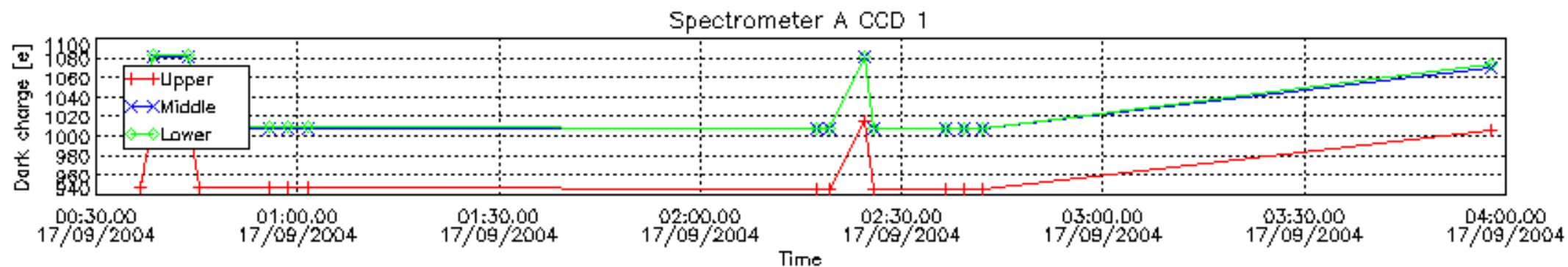


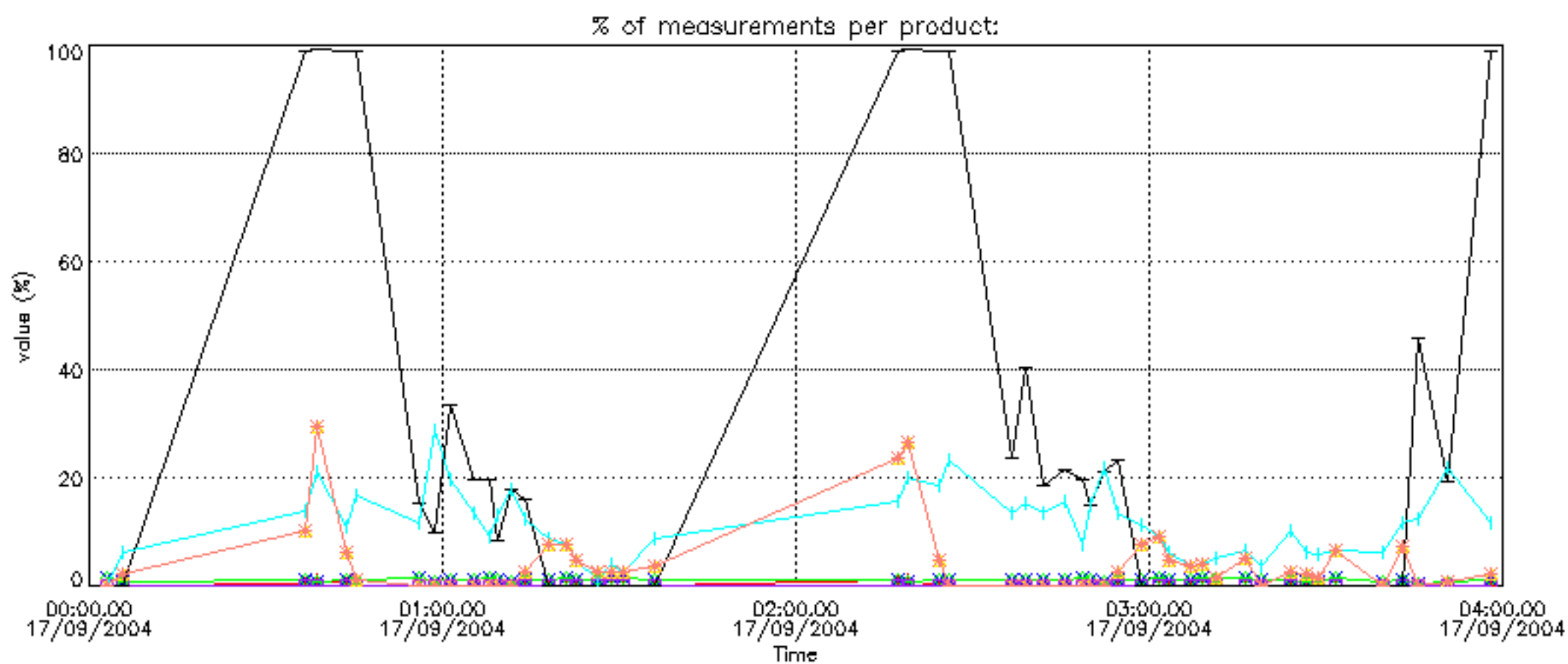
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

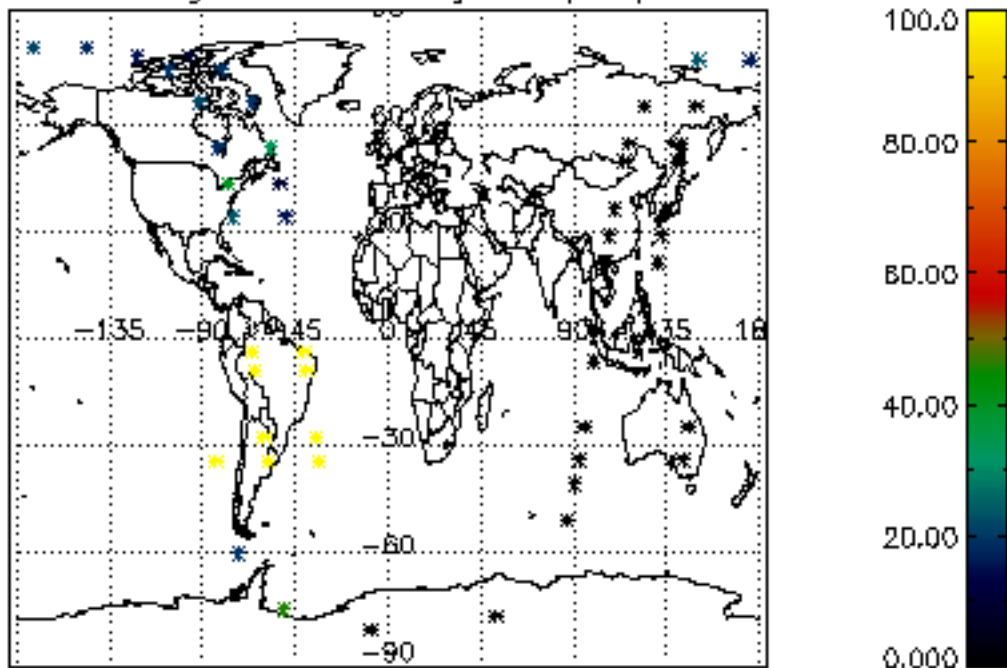
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.4	1446.3	1460.9	1447.2
St. deviation:	4.4654	5.8069	6.6743	7.6855
Maximum:	1490.0	1476.0	1539.0	1518.0
Minimum:	1432.0	1420.0	1433.0	1412.0
Number of data:	17350.	17350.	34950.	34950.



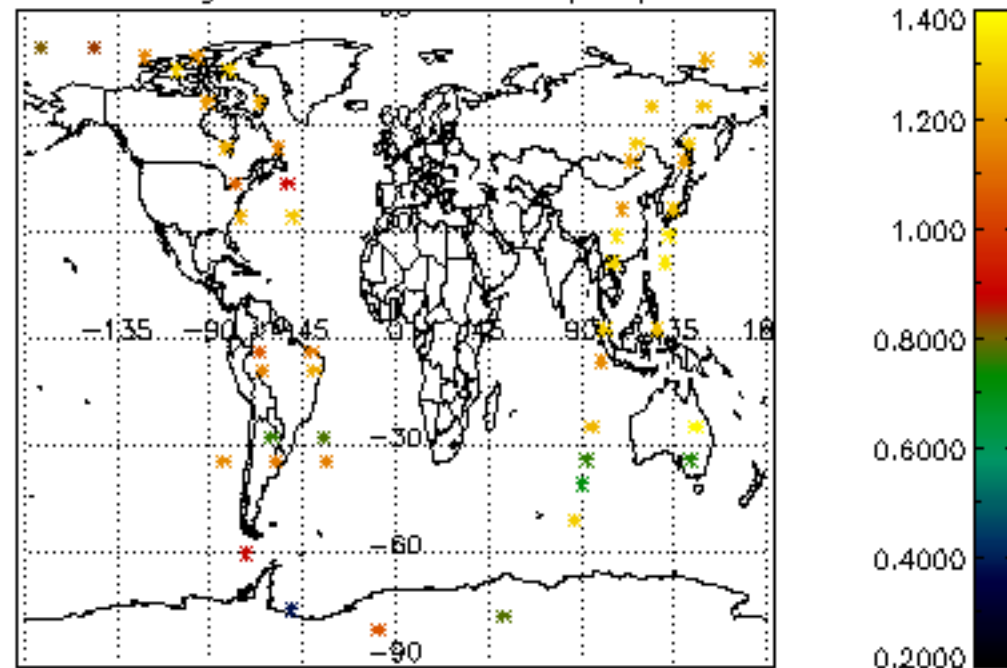




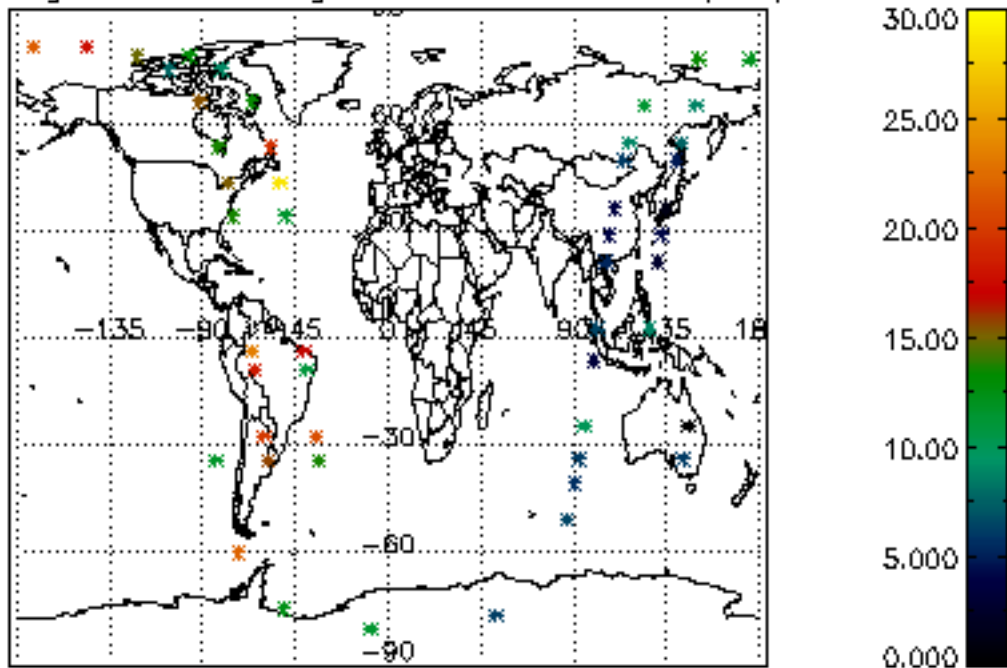
Percentage of cosmic ray hits per profile



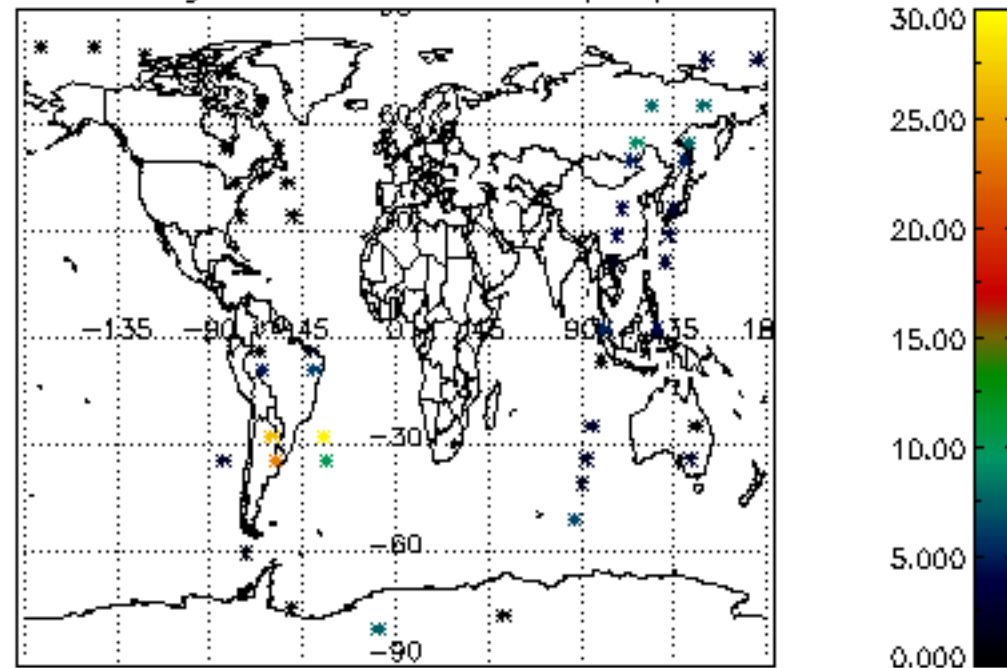
Percentage of datation errors per profile



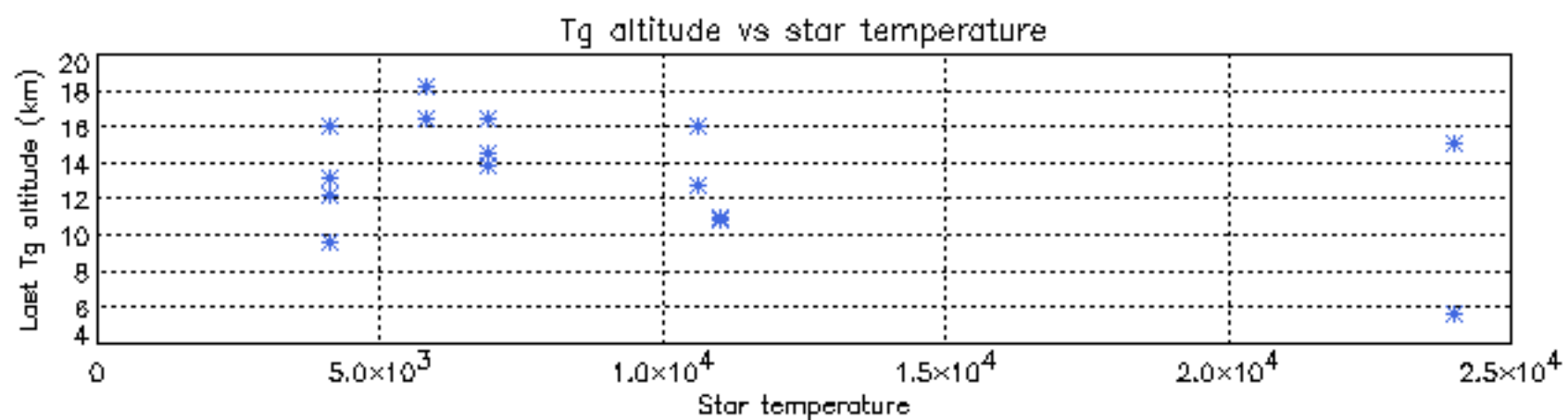
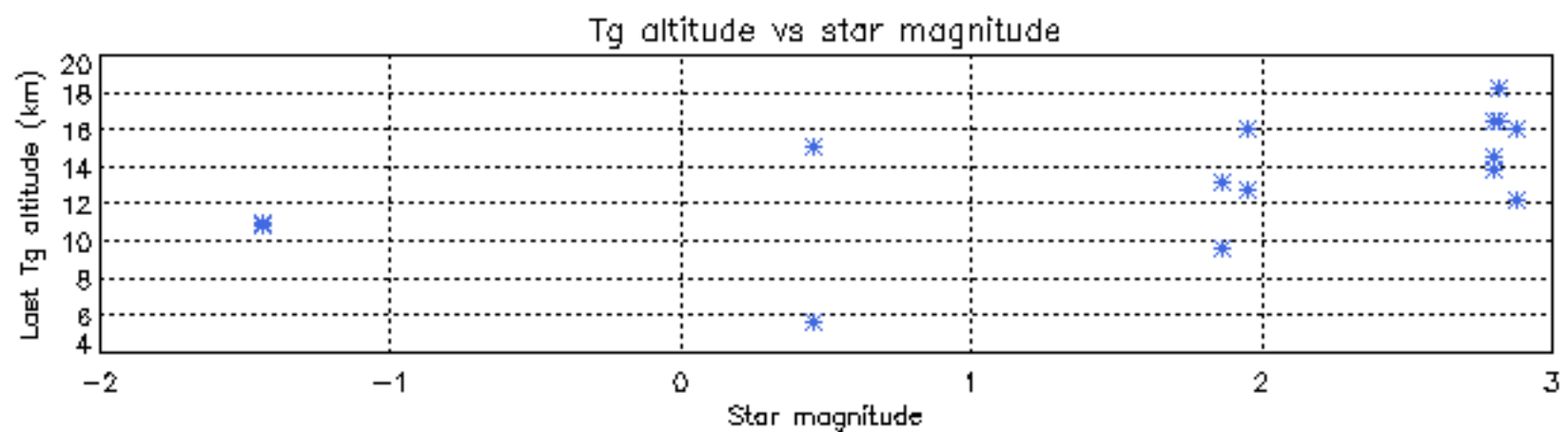
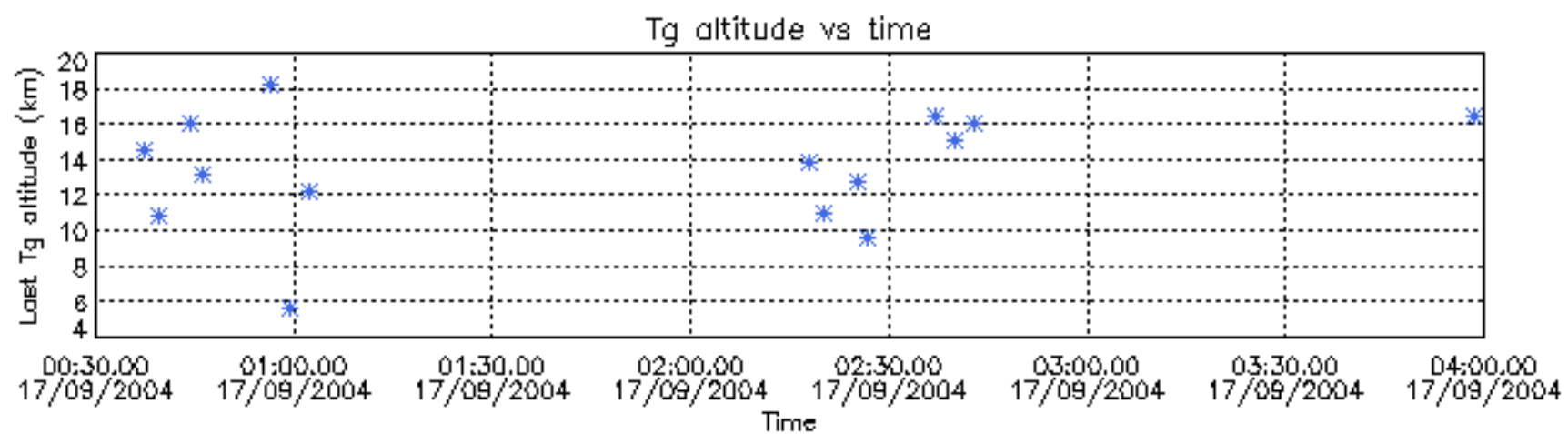
Percentage of star falling outside central band per profile



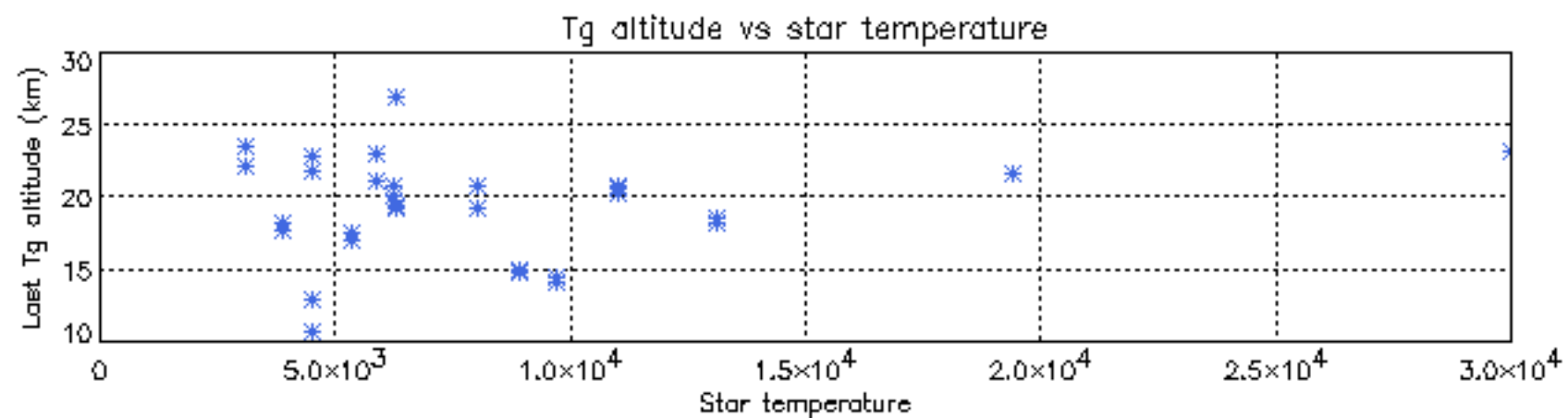
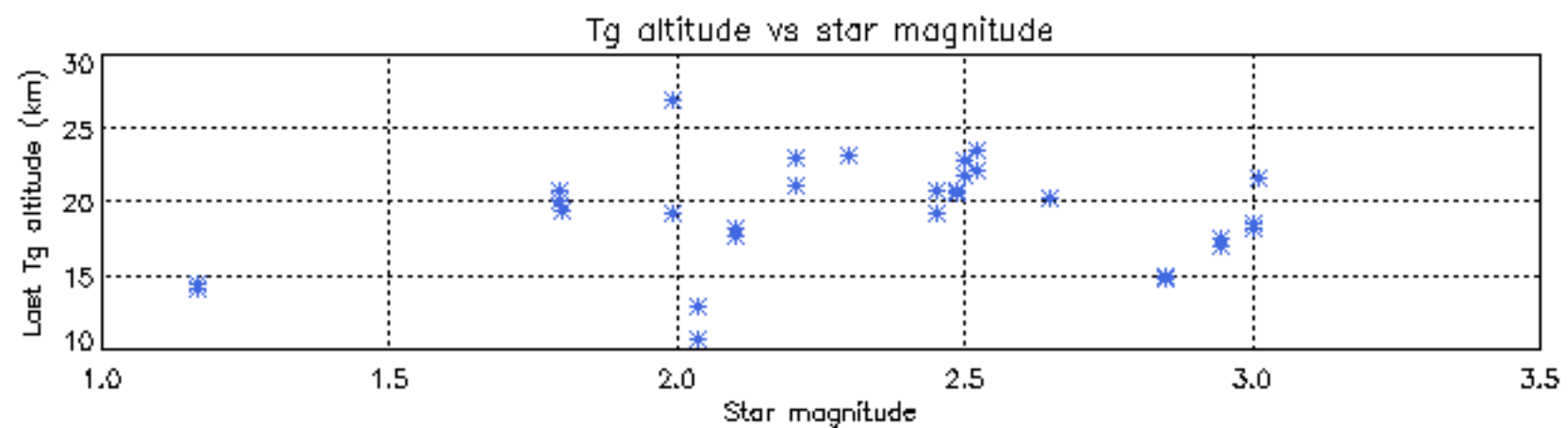
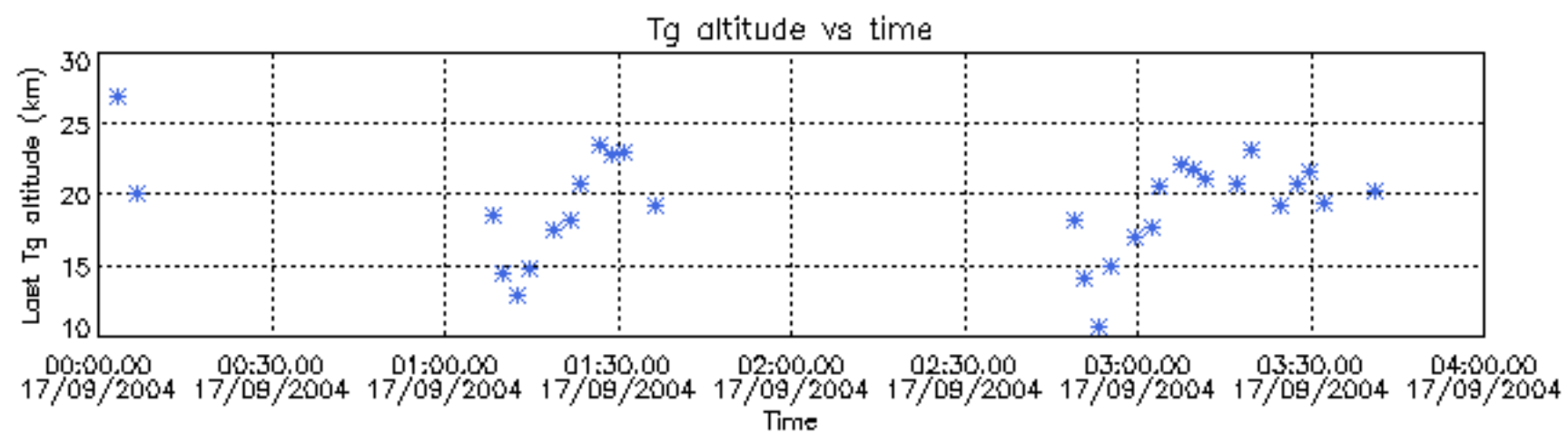
Percentage of saturation errors per profile



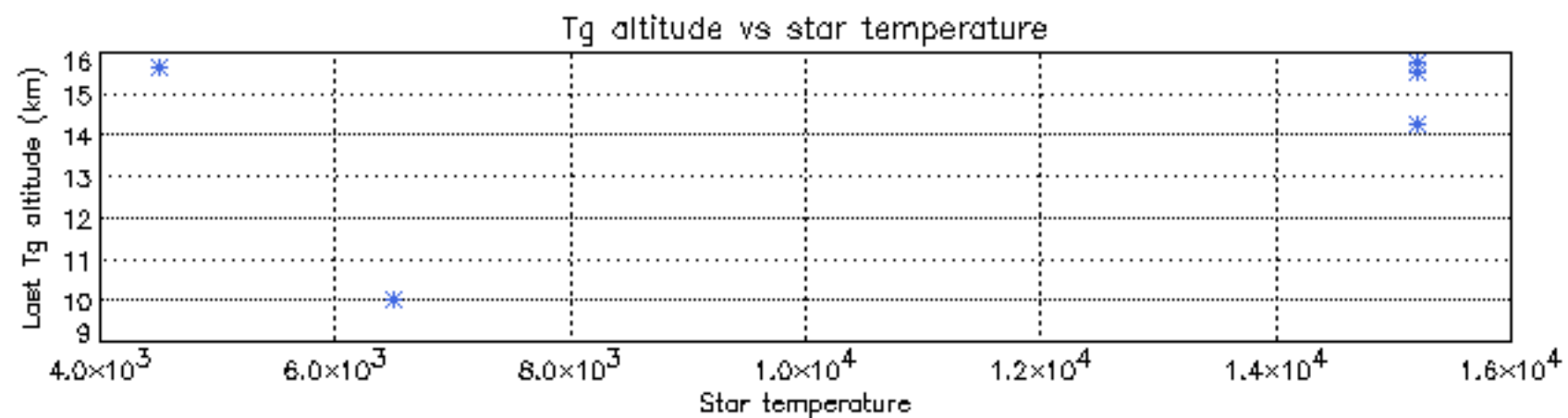
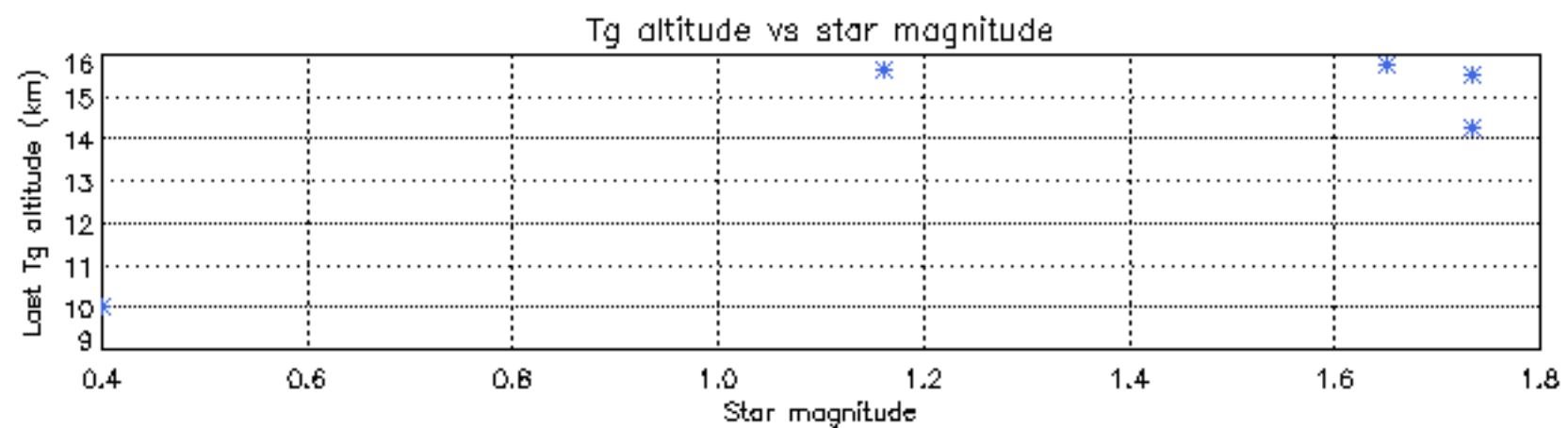
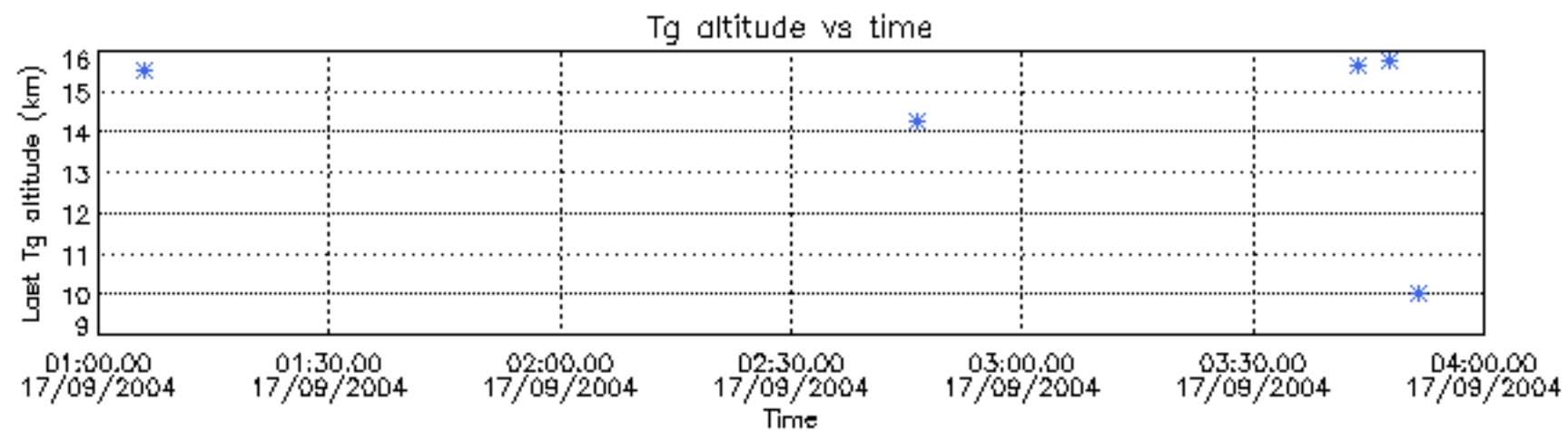
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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 23; 3190.5; 09-SEP-2004 00:50:42; Bright; 44.5; 76; 27Gam Cas ; 2.30; 30000;occ; 89; 0;13211
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3;	-3943.3;	19-SEP-2004	08:40:59;	Bright;	;	39.0;	61;	8Eps	Peg	;	2.10;	3900;	occ;	78;	0;	13359
4;	-3797.4;	19-SEP-2004	08:43:25;	Bright;	;	47.5;	140;	88Gam	Peg	;	2.83;	26000;	occ;	95;	0;	13359
5;	-3636.9;	19-SEP-2004	08:46:06;	Bright;	;	39.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	78;	0;	13359
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7;	-3366.2;	19-SEP-2004	08:50:36;	Bright;	;	41.0;	66;	37Gam	Cyg	;	2.21;	5900;	occ;	82;	0;	13359
8;	-3230.9;	19-SEP-2004	08:52:52;	Bright;	;	56.0;	53;	43Bet	And	;	2.05;	3300;	occ;	112;	0;	13359
9;	-3061.5;	19-SEP-2004	08:55:41;	Bright;	;	37.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	75;	0;	13359
10;	-2931.0;	19-SEP-2004	08:57:52;	Bright;	;	43.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	86;	0;	13359
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12;	-2491.8;	19-SEP-2004	09:05:11;	Bright;	;	68.0;	35;	33Alp	Per	;	1.79;	6250;	occ;	136;	0;	13359
13;	-2378.8;	19-SEP-2004	09:07:04;	Bright;	;	71.0;	175;	39Del	Per	;	3.01;	19400;	occ;	142;	0;	13359
14;	-2156.3;	19-SEP-2004	09:10:46;	Bright;	;	37.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	74;	0;	13359
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16;	-1882.6;	19-SEP-2004	09:15:20;	Bright;	;	36.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	72;	0;	13359
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18;	-1473.9;	19-SEP-2004	09:22:09;	Bright;	;	50.5;	17;	78Bet	Gem	;	1.16;	4500;	occ;	101;	0;	13359
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23;	-257.3;	19-SEP-2004	09:42:25;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	13359
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26;	55.2;	19-SEP-2004	09:47:38;	Dark	;	57.0;	2;	Alp	Car	;	-0.74;	7000;	occ;	114;	0;	13360
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34;	1532.2;	19-SEP-2004	10:12:15;	Dark	;	60.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	120;	0;	13360
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2;	-4125.1;	19-SEP-2004	11:59:09;	Bright;	;	39.0;	162;	34Alp	Aqr	;	2.94;	5350;	occ;	78;	0;	13361
3;	-3943.6;	19-SEP-2004	12:02:11;	Bright;	;	39.5;	61;	8Eps	Peg	;	2.10;	3900;	occ;	79;	0;	13361
4;	-3798.5;	19-SEP-2004	12:04:36;	Bright;	;	48.5;	140;	88Gam	Peg	;	2.83;	26000;	occ;	97;	0;	13361
5;	-3638.0;	19-SEP-2004	12:07:16;	Bright;	;	39.5;	93;	53Bet	Peg	;	2.52;	3100;	occ;	79;	0;	13361
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7;	-3368.1;	19-SEP-2004	12:11:46;	Bright;	;	42.0;	66;	37Gam	Cyg	;	2.21;	5900;	occ;	84;	0;	13361
8;	-3232.5;	19-SEP-2004	12:14:02;	Bright;	;	60.0;	53;	43Bet	And	;	2.05;	3300;	occ;	120;	0;	13361
9;	-3062.6;	19-SEP-2004	12:16:52;	Bright;	;	38.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	77;	0;	13361
10;	-2931.7;	19-SEP-2004	12:19:03;	Bright;	;	39.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	79;	0;	13361
11;	-2493.9;	19-SEP-2004	12:26:20;	Bright;	;	72.0;	35;	33Alp	Per	;	1.79;	6250;	occ;	144;	0;	13361
12;	-2380.9;	19-SEP-2004	12:28:13;	Bright;	;	66.5;	175;	39Del	Per	;	3.01;	19400;	occ;	133;	0;	13361
13;	-2155.8;	19-SEP-2004	12:31:58;	Bright;	;	37.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	74;	0;	13361
14;	-2068.5;	19-SEP-2004	12:33:26;	Bright;	;	46.0;	82;	48Bet	UMa	;	2.37;	10600;	occ;	92;	0;	13361
15;	-1889.6;	19-SEP-2004	12:36:25;	Bright;	;	60.5;	42;	34Bet	Aur	;	1.90;	10200;	occ;	121;	0;	13361
16;	-1668.5;	19-SEP-2004	12:40:06;	Bright;	;	68.5;	107;	37The	Aur	;	2.65;	11000;	occ;	137;	0;	13361
17;	-1473.4;	19-SEP-2004	12:43:21;	Bright;	;	64.0;	17;	78Bet	Gem	;	1.16;	4500;	occ;	128;	0;	13361
18;	-1282.2;	19-SEP-2004	12:46:32;	Dark	;	170.0;	28;	12Bet	Tau	;	1.65;	15200;	occ;	340;	0;	13361
19;	-1002.5;	19-SEP-2004	12:51:12;	Dark	;	58.0;	8;	10Alp	CMi	;	0.40;	6500;	occ;	116;	0;	13361
20;	-560.2;	19-SEP-2004	12:58:34;	Dark	;	44.5;	132;	15Rho	Pup	;	2.80;	6900;	occ;	89;	0;	13361
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22;	-256.7;	19-SEP-2004	13:03:38;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	13361
23;	-146.7;	19-SEP-2004	13:05:28;	Dark	;	42.0;	46;	Del	Vel	;	1.95;	10600;	occ;	84;	0;	13361
24;	-52.5;	19-SEP-2004	13:07:02;	Dark	;	50.0;	41;	Eps	Car	;	1.86;	4100;	occ;	100;	0;	13361
25;	50.5;	19-SEP-2004	13:08:45;	Dark	;	89.5;	101;	11Alp	Lep	;	2.58;	7000;	occ;	179;	0;	13362
26;	366.7;	19-SEP-2004	13:14:01;	Dark	;	230.0;	7;	19Bet	Ori	;	0.10;	14000;	occ;	460;	0;	13362
27;	662.3;	19-SEP-2004	13:18:57;	Dark	;	41.0;	143;	Alp	Hyi	;	2.86;	7200;	occ;	82;	0;	13362
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30;	1115.3;	19-SEP-2004	13:26:30;	Dark	;	46.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	93;	0;	13362
31;	1302.8;	19-SEP-2004	13:29:37;	Dark	;	38.0;	172;	Gam	Gru	;	3.00;	13100;	occ;	76;	0;	13362

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31;	2790.8;	20-SEP-2004	06:40:24;	Bright;	;	59.0;	53;	43Bet	And	;	2.05;	3300;	occ;	118;	0;	13372
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19;	3970.5;	20-SEP-2004	20:24:51;	Bright;	;	52.0;	82;	48Bet	UMa	;	2.37;	10600;	occ;	104;	0;	13380
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20;-1238.7; 30-SEP-2004 20:24:17; Dark ; 100.0; 170; 27Eps Gem ; 3.00; 9700;occ; 200; 0;13523
21;-872.0; 30-SEP-2004 20:30:24; Dark ; 85.0; 8; 10Alp CMi ; 0.40; 6500;occ; 170; 0;13523
22;-449.5; 30-SEP-2004 20:37:26; Dark ; 50.5; 132; 15Rho Pup ; 2.80; 6900;occ; 101; 0;13523
23;-295.1; 30-SEP-2004 20:40:01; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;13523
24;-203.5; 30-SEP-2004 20:41:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13523
25;-97.4; 30-SEP-2004 20:43:19; Dark ; 42.0; 46; De1 Vel ; 1.95; 10600;occ; 84; 0;13523
26; 306.1; 30-SEP-2004 20:50:02; Dark ; 61.0; 108; Alp Col ; 2.65; 15200;occ; 122; 0;13524
27; 602.6; 30-SEP-2004 20:54:58; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;13524
28; 731.1; 30-SEP-2004 20:57:07; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13524
29; 816.0; 30-SEP-2004 20:58:32; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;13524
30; 913.9; 30-SEP-2004 21:00:10; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13524

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