

GOMOS Daily Report 18-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	20SEP2004 05:01:41
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (18SEP2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (19SEP2004 00:00:00)

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

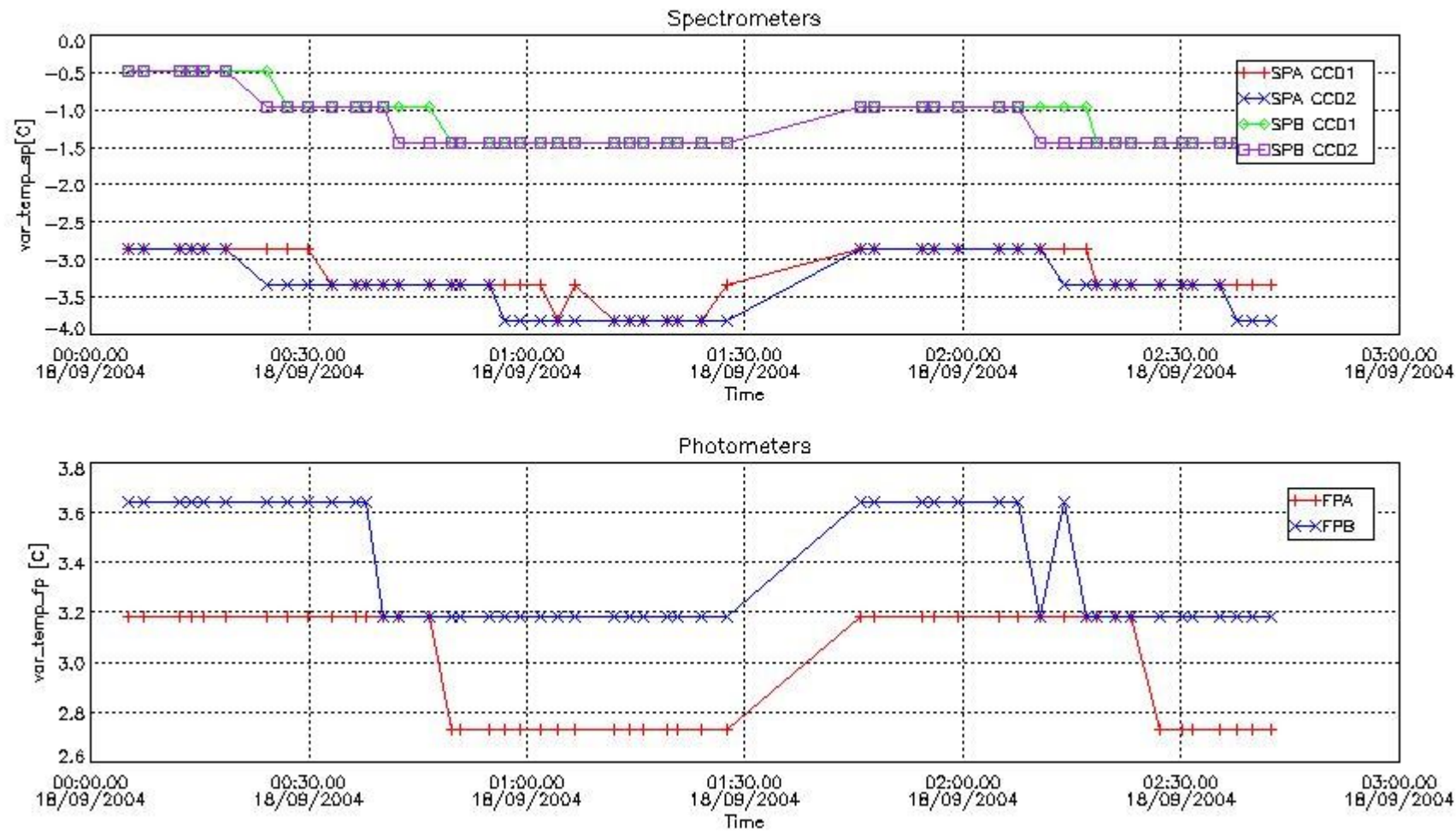
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040918_000512_000000462030_00259_13339_0000.N1	18-SEP-2004 00:05:12	Dark	45.500	132	15Rho Pup	2.8030	6900.0	91	13339	No
GOM_TRA_1PNPDE20040918_000713_000000632030_00259_13339_0001.N1	18-SEP-2004 00:07:13	Dark	62.500	1	9Alp CMa	-1.4400	11000.	125	13339	No
GOM_TRA_1PNPDE20040918_001213_000000442030_00259_13339_0002.N1	18-SEP-2004 00:12:13	Dark	44.000	46	Del Vel	1.9540	10600.	88	13339	No
GOM_TRA_1PNPDE20040918_001346_000000452030_00259_13339_0003.N1	18-SEP-2004 00:13:46	Dark	44.500	41	Eps Car	1.8600	4100.0	89	13339	No
GOM_TRA_1PNPDE20040918_001526_000000572030_00260_13340_0004.N1	18-SEP-2004 00:15:26	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	13340	No
GOM_TRA_1PNPDE20040918_001831_000002312030_00260_13340_0005.N1	18-SEP-2004 00:18:31	Dark	231.00	7	19Bet Ori	0.10000	14000.	462	13340	No
GOM_TRA_1PNPDE20040918_002421_000000382030_00260_13340_0006.N1	18-SEP-2004 00:24:21	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	13340	No
GOM_TRA_1PNPDE20040918_002700_000000452030_00260_13340_0007.N1	18-SEP-2004 00:27:00	Dark	45.000	9	Alp Eri	0.45300	24000.	90	13340	No
GOM_TRA_1PNPDE20040918_002952_000000422030_00260_13340_0008.N1	18-SEP-2004 00:29:52	Dark	41.500	148	Alp Tuc	2.8780	4100.0	83	13340	No
GOM_TRA_1PNPDE20040918_003315_000000462030_00260_13340_0009.N1	18-SEP-2004 00:33:15	Twilight	45.500	63	Bet Gru	2.1500	2800.0	91	13340	No
GOM_TRA_1PNPDE20040918_003623_000000392030_00260_13340_0010.N1	18-SEP-2004 00:36:23	Bright	38.500	172	Gam Gru	3.0030	13100.	77	13340	No
GOM_TRA_1PNPDE20040918_003750_000000442030_00260_13340_0011.N1	18-SEP-2004 00:37:50	Bright	44.000	18	24Alp PsA	1.1660	9700.0	88	13340	No
GOM_TRA_1PNPDE20040918_004014_000000572030_00260_13340_0012.N1	18-SEP-2004 00:40:14	Bright	57.000	52	16Bet Cet	2.0370	4500.0	114	13340	No
GOM_TRA_1PNPDE20040918_004220_000000402030_00260_13340_0013.N1	18-SEP-2004 00:42:20	Bright	40.000	142	49Del Cap	2.8500	8900.0	80	13340	No
GOM_TRA_1PNPDE20040918_004631_000000402030_00260_13340_0014.N1	18-SEP-2004 00:46:31	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	13340	No
GOM_TRA_1PNPDE20040918_004932_000000412030_00260_13340_0015.N1	18-SEP-2004 00:49:32	Bright	41.000	61	8Eps Peg	2.1000	3900.0	82	13340	No
GOM_TRA_1PNPDE20040918_005056_000000422030_00260_13340_0016.N1	18-SEP-2004 00:50:56	Bright	42.000	90	54Alp Peg	2.4870	11000.	84	13340	No
GOM_TRA_1PNPDE20040918_005446_000000402030_00260_13340_0017.N1	18-SEP-2004 00:54:46	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	13340	No
GOM_TRA_1PNPDE20040918_005657_000000382030_00260_13340_0018.N1	18-SEP-2004 00:56:57	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	13340	No
GOM_TRA_1PNPDE20040918_005906_000000392030_00260_13340_0019.N1	18-SEP-2004 00:59:06	Bright	38.500	66	37Gam Cyg	2.2080	5900.0	77	13340	No
GOM_TRA_1PNPDE20040918_010152_000000612030_00260_13340_0020.N1	18-SEP-2004 01:01:52	Bright	60.500	53	43Bet And	2.0480	3300.0	121	13340	No
GOM_TRA_1PNPDE20040918_010416_000000392030_00260_13340_0021.N1	18-SEP-2004 01:04:16	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	13340	No
GOM_TRA_1PNPDE20040918_010639_000000432030_00260_13340_0022.N1	18-SEP-2004 01:06:39	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	13340	No
GOM_TRA_1PNPDE20040918_011153_000000352030_00260_13340_0023.N1	18-SEP-2004 01:11:53	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	13340	No
GOM_TRA_1PNPDE20040918_011412_000000672030_00260_13340_0024.N1	18-SEP-2004 01:14:12	Bright	67.000	35	33Alp Per	1.7950	6250.0	134	13340	No
GOM_TRA_1PNPDE20040918_011606_000000692030_00260_13340_0025.N1	18-SEP-2004 01:16:06	Bright	68.500	175	39Del Per	3.0100	19400.	137	13340	No
GOM_TRA_1PNPDE20040918_011920_000000392030_00260_13340_0026.N1	18-SEP-2004 01:19:20	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	13340	No
GOM_TRA_1PNPDE20040918_012048_000000522030_00260_13340_0027.N1	18-SEP-2004 01:20:48	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	13340	No
GOM_TRA_1PNPDE20040918_012353_000000372030_00260_13340_0028.N1	18-SEP-2004 01:23:53	Bright	36.500	174	52Psi UMa	3.0040	4400.0	73	13340	No
GOM_TRA_1PNPDE20040918_012734_000000662030_00260_13340_0029.N1	18-SEP-2004 01:27:34	Bright	65.500	107	37The Aur	2.6490	11000.	131	13340	No
GOM_TRA_1PNPDE20040918_014548_000000432030_00260_13340_0000.N1	18-SEP-2004 01:45:48	Dark	43.000	132	15Rho Pup	2.8030	6900.0	86	13340	No
GOM_TRA_1PNPDE20040918_014750_000000652030_00260_13340_0001.N1	18-SEP-2004 01:47:50	Dark	65.000	1	9Alp CMa	-1.4400	11000.	130	13340	No
GOM_TRA_1PNPDE20040918_015422_000000522030_00260_13340_0002.N1	18-SEP-2004 01:54:22	Dark	52.000	41	Eps Car	1.8600	4100.0	104	13340	No
GOM_TRA_1PNPDE20040918_015603_000000522030_00261_13341_0003.N1	18-SEP-2004 01:56:03	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	13341	No
GOM_TRA_1PNPDE20040918_015913_000002312030_00261_13341_0004.N1	18-SEP-2004 01:59:13	Dark	231.00	7	19Bet Ori	0.10000	14000.	462	13341	No
GOM_TRA_1PNPDE20040918_020457_000000382030_00261_13341_0005.N1	18-SEP-2004 02:04:57	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	13341	No
GOM_TRA_1PNPDE20040918_020737_000000492030_00261_13341_0006.N1	18-SEP-2004 02:07:37	Dark	48.500	9	Alp Eri	0.45300	24000.	97	13341	No
GOM_TRA_1PNPDE20040918_021028_000000442030_00261_13341_0007.N1	18-SEP-2004 02:10:28	Dark	44.000	148	Alp Tuc	2.8780	4100.0	88	13341	No
GOM_TRA_1PNPDE20040918_021351_000000452030_00261_13341_0008.N1	18-SEP-2004 02:13:51	Twilight	44.500	63	Bet Gru	2.1500	2800.0	89	13341	No
GOM_TRA_1PNPDE20040918_021659_000000412030_00261_13341_0009.N1	18-SEP-2004 02:16:59	Bright	40.500	172	Gam Gru	3.0030	13100.	81	13341	No
GOM_TRA_1PNPDE20040918_021825_000000482030_00261_13341_0010.N1	18-SEP-2004 02:18:25	Bright	47.500	18	24Alp PsA	1.1660	9700.0	95	13341	No
GOM_TRA_1PNPDE20040918_022051_000000582030_00261_13341_0011.N1	18-SEP-2004 02:20:51	Bright	57.500	52	16Bet Cet	2.0370	4500.0	115	13341	No
GOM_TRA_1PNPDE20040918_022257_000000412030_00261_13341_0012.N1	18-SEP-2004 02:22:57	Bright	41.000	142	49Del Cap	2.8500	8900.0	82	13341	No
GOM_TRA_1PNPDE20040918_022707_000000402030_00261_13341_0013.N1	18-SEP-2004 02:27:07	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	13341	No
GOM_TRA_1PNPDE20040918_023008_000000402030_00261_13341_0014.N1	18-SEP-2004 02:30:08	Bright	39.500	61	8Eps Peg	2.1000	3900.0	79	13341	No
GOM_TRA_1PNPDE20040918_023130_000000432030_00261_13341_0015.N1	18-SEP-2004 02:31:30	Bright	43.000	90	54Alp Peg	2.4870	11000.	86	13341	No
GOM_TRA_1PNPDE20040918_023519_000000432030_00261_13341_0016.N1	18-SEP-2004 02:35:19	Bright	42.500	93	53Bet Peg	2.5200	3100.0	85	13341	No
GOM_TRA_1PNPDE20040918_023733_000000382030_00261_13341_0017.N1	18-SEP-2004 02:37:33	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	13341	No
GOM_TRA_1PNPDE20040918_023943_000000402030_00261_13341_0018.N1	18-SEP-2004 02:39:43	Bright	39.500	66	37Gam Cyg	2.2080	5900.0	79	13341	No

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



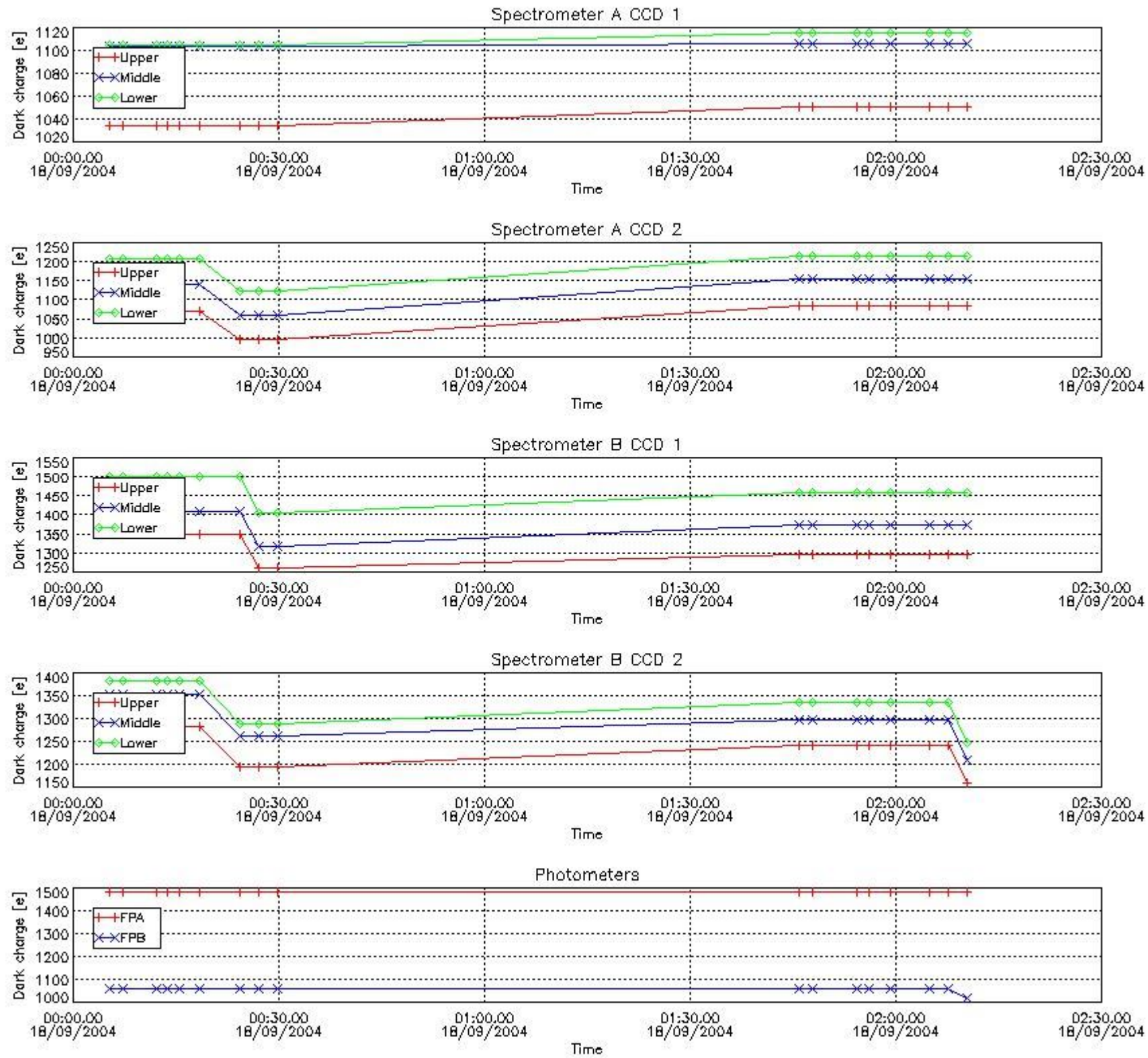
4. Overview of dark signal processing per product

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



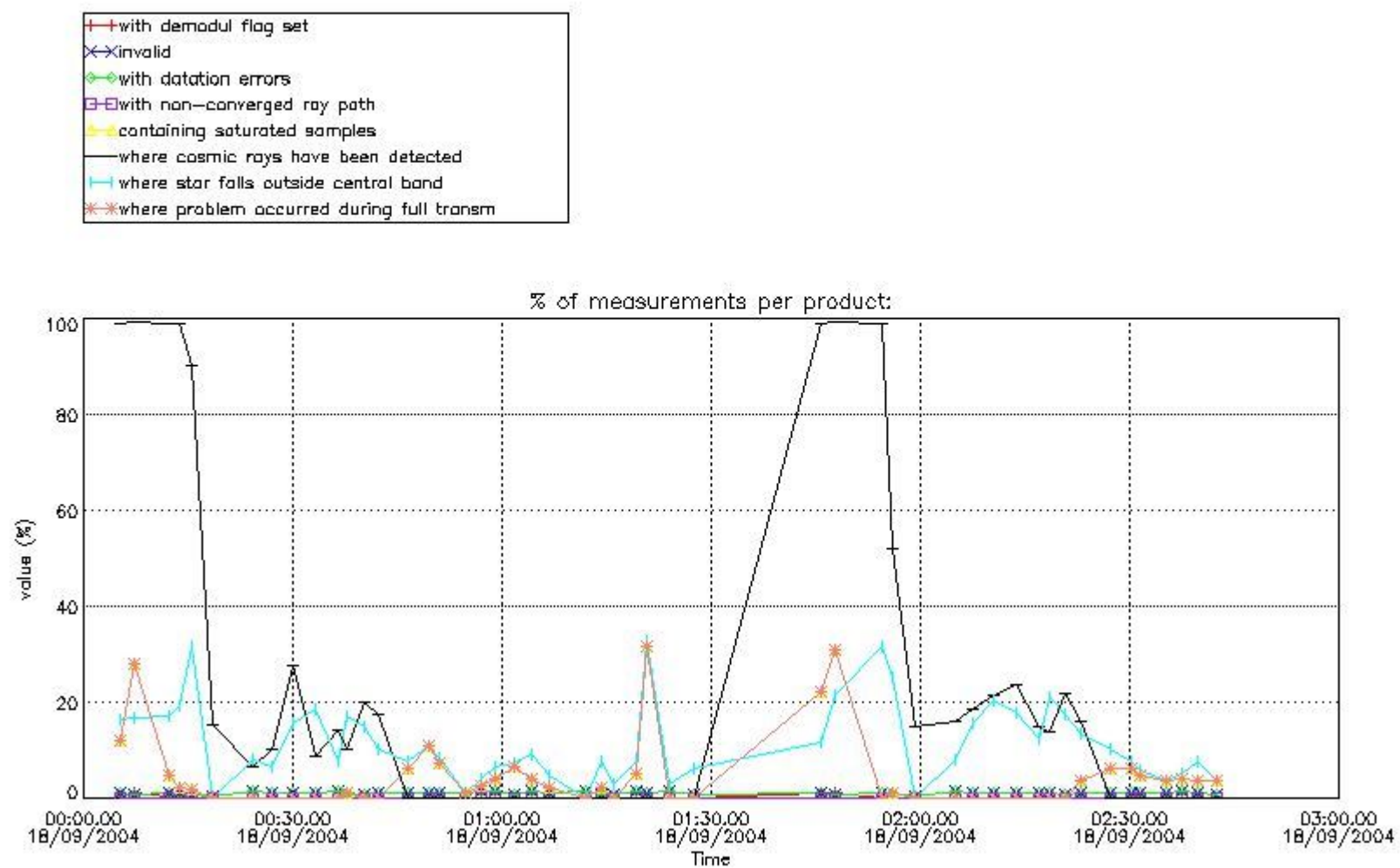
5. Demodulation flag and quality information monitoring

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.

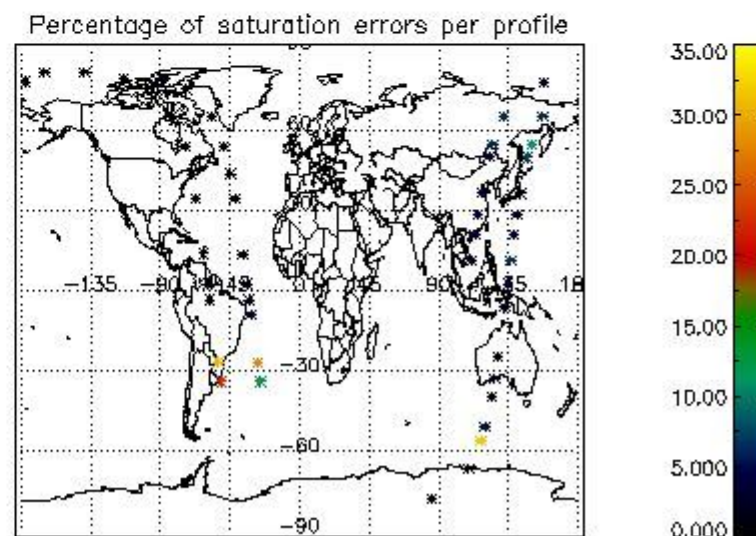
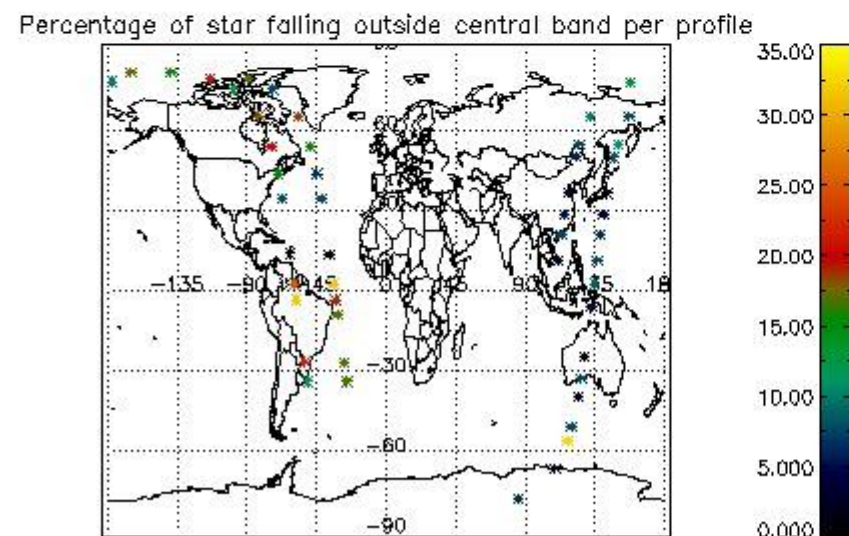
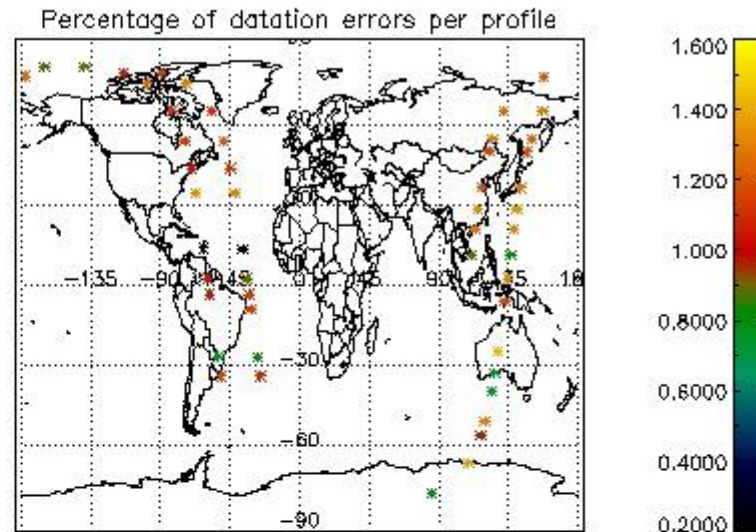
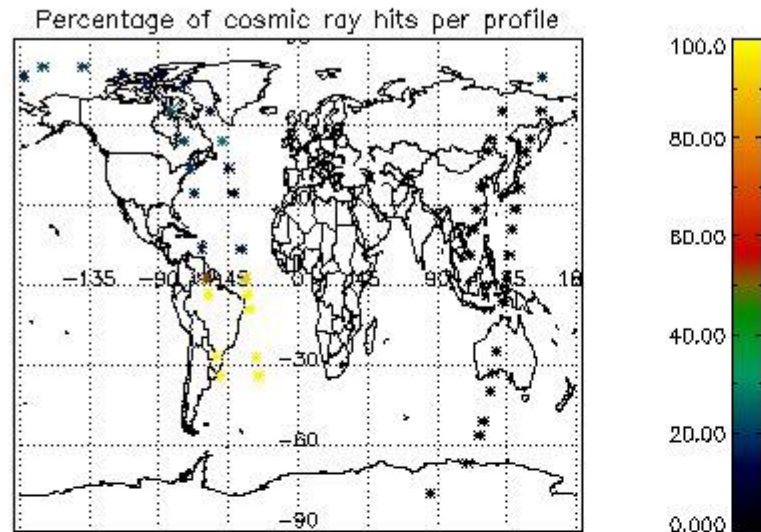
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.0000 %
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)



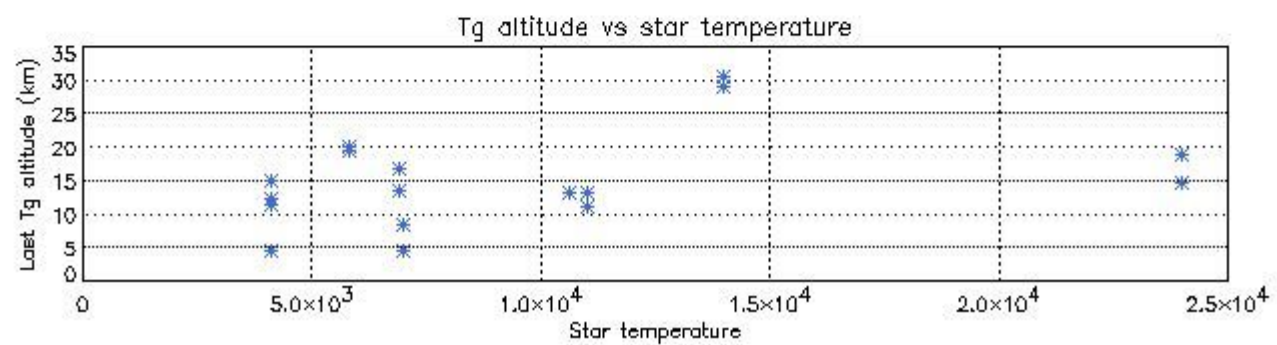
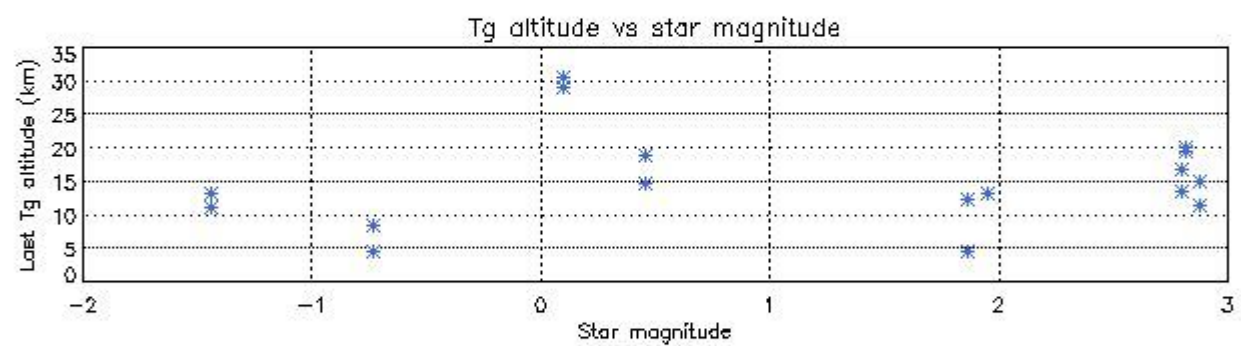
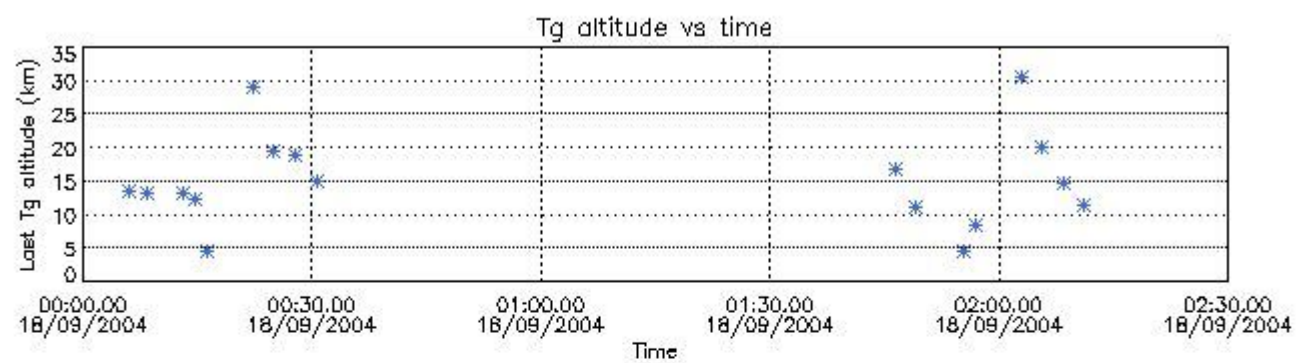
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.080	18.691	12.167
St. deviation:	7.0874	4.6348	0.031601
Maximum:	30.485	26.898	12.189
Minimum:	4.5234	4.6432	12.145
Number of data:	17.000	31.000	2.0000

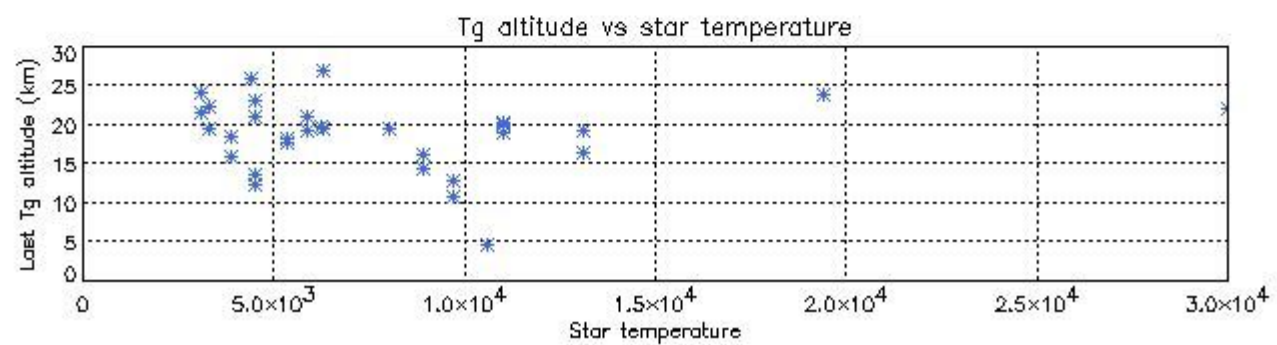
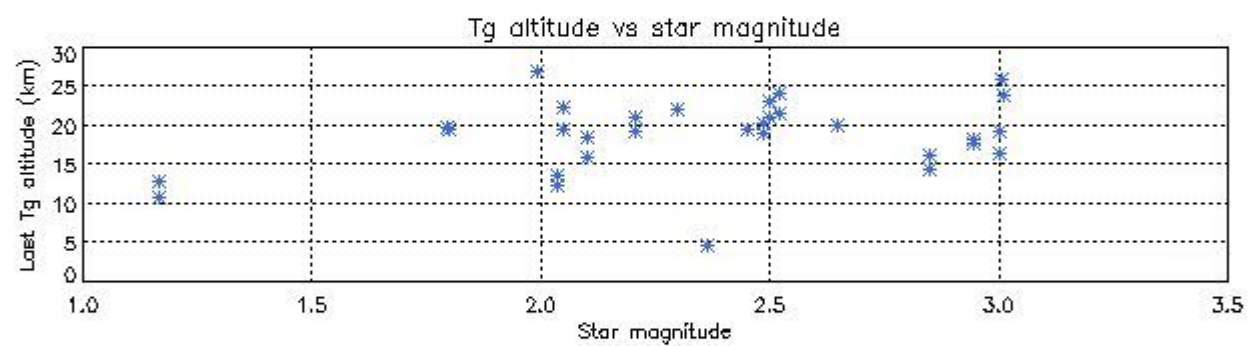
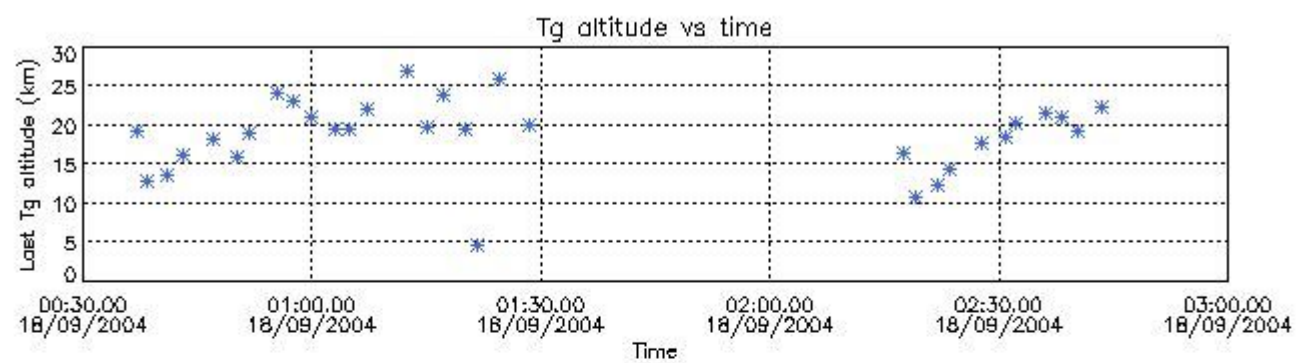
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



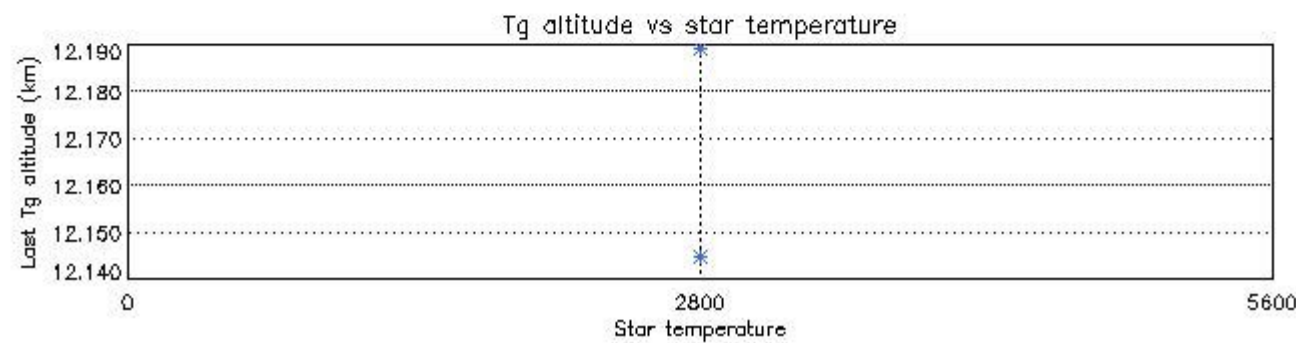
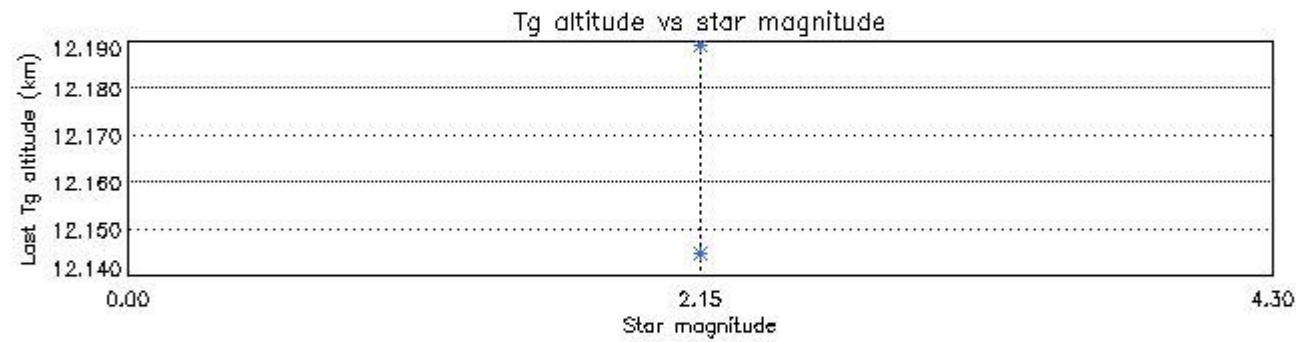
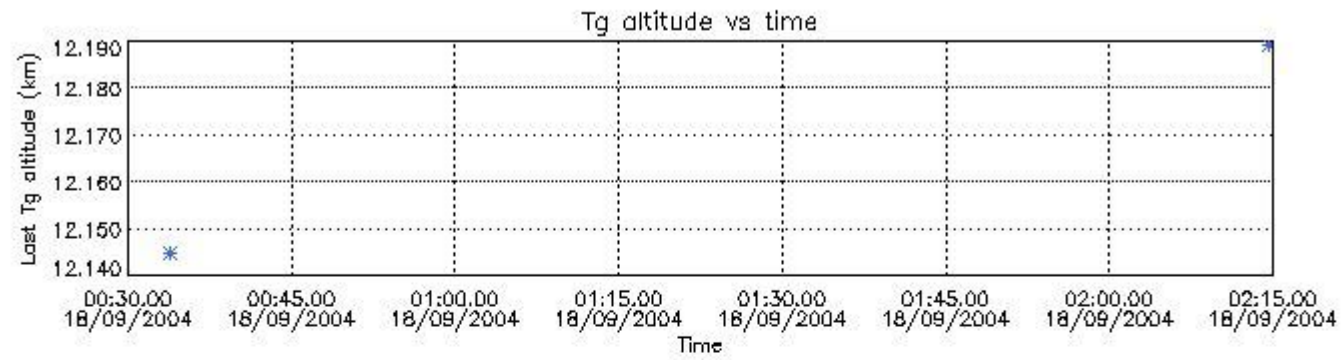
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

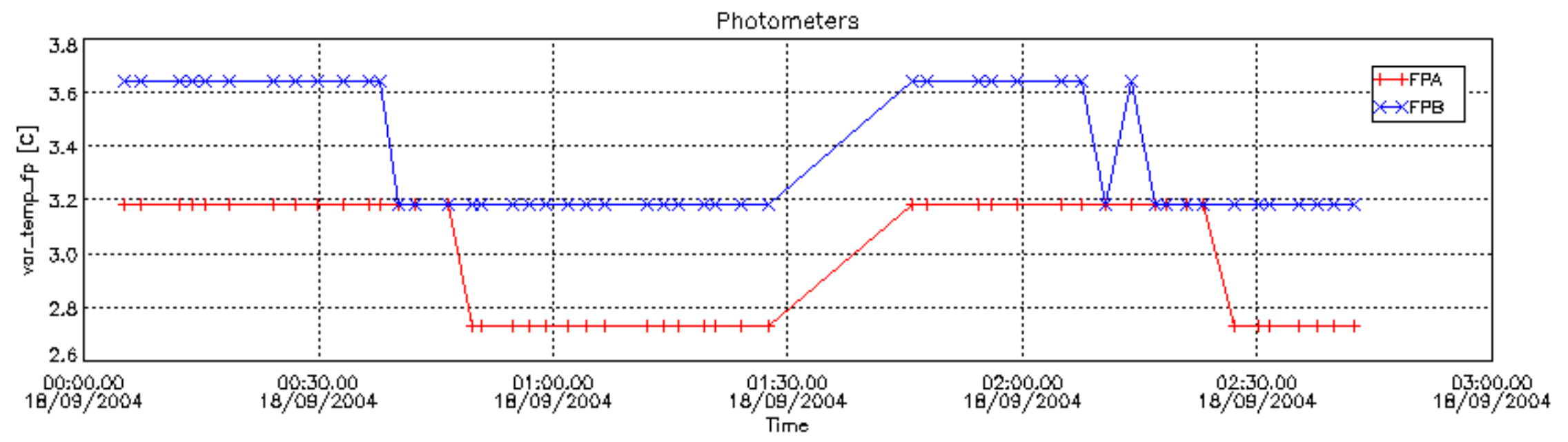
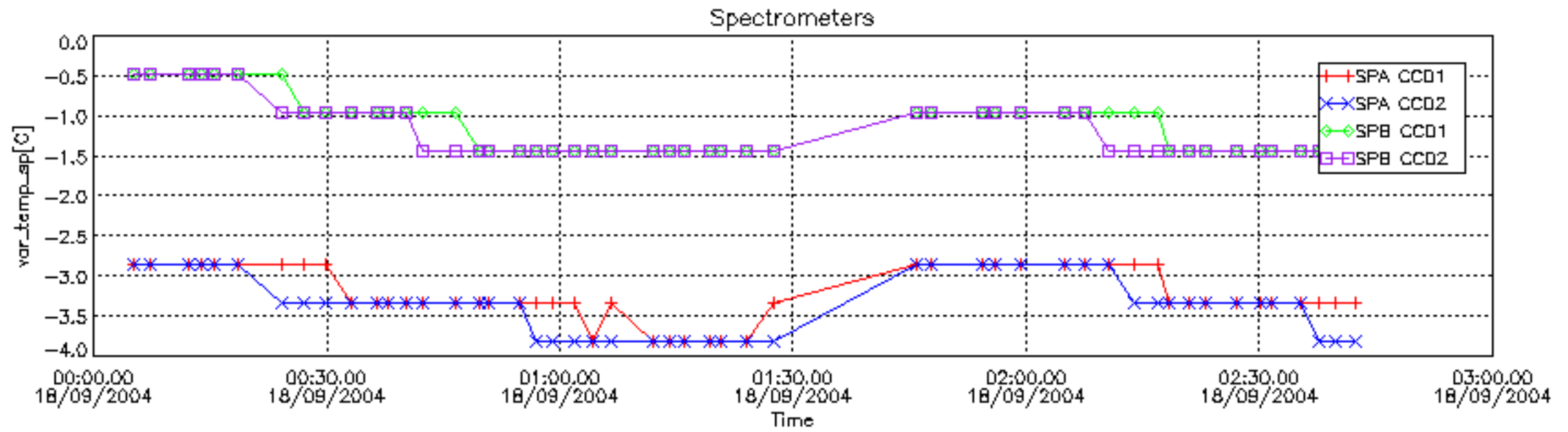
Tangent altitude at which the star is lost

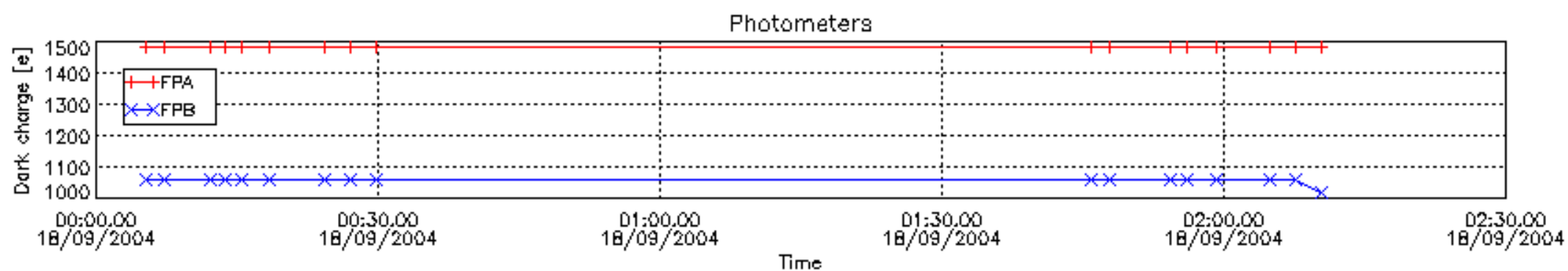
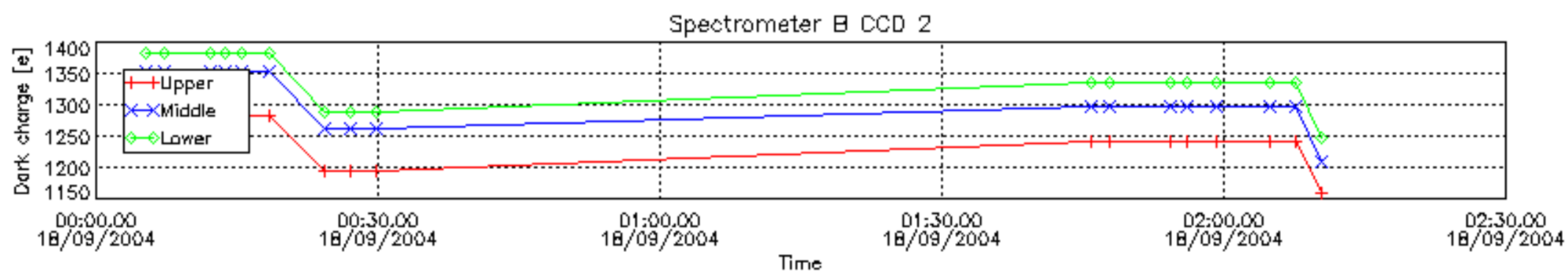
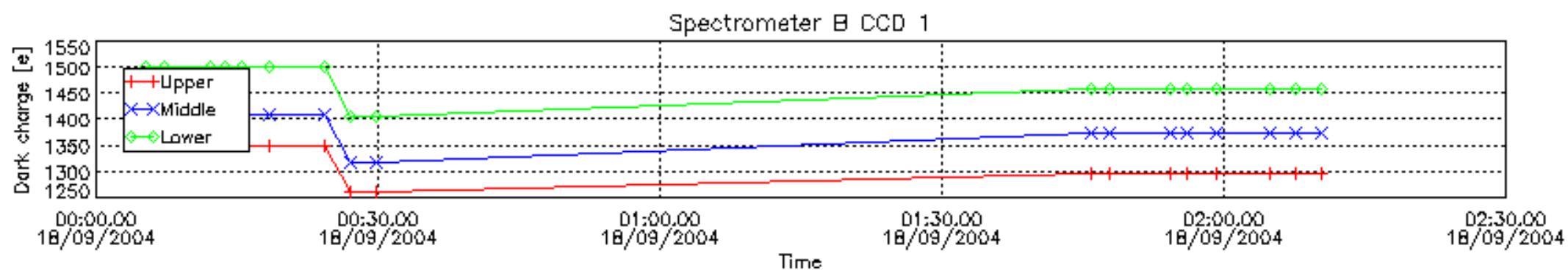
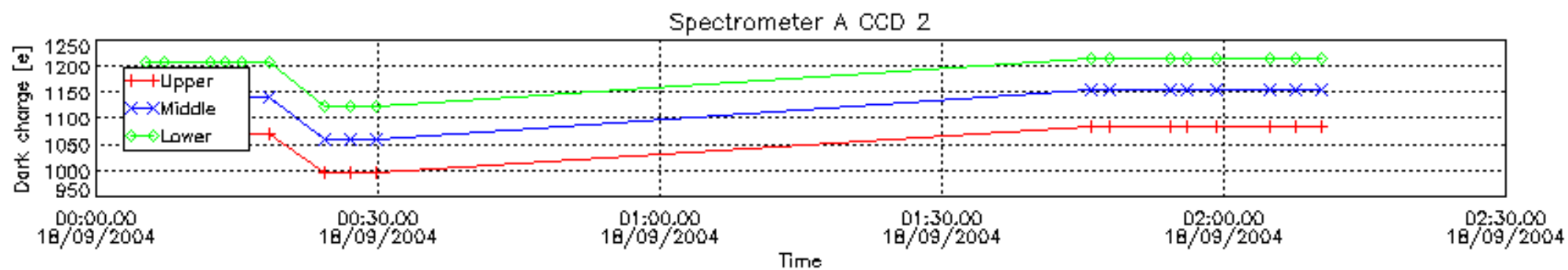
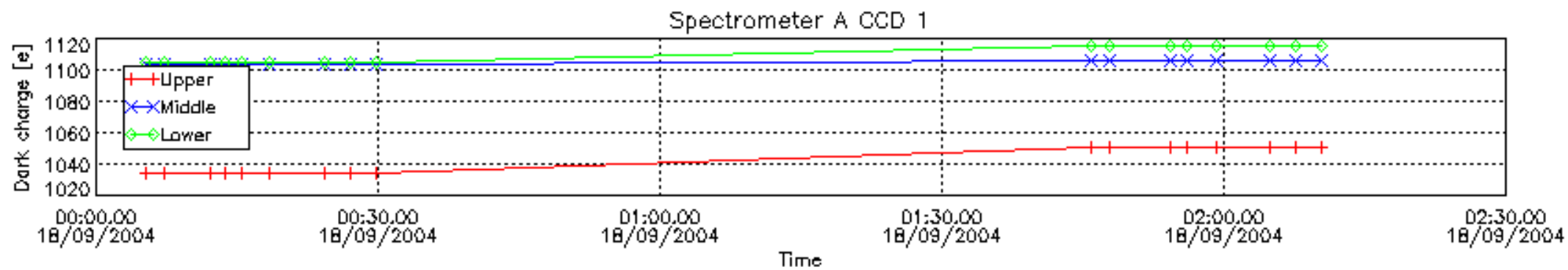


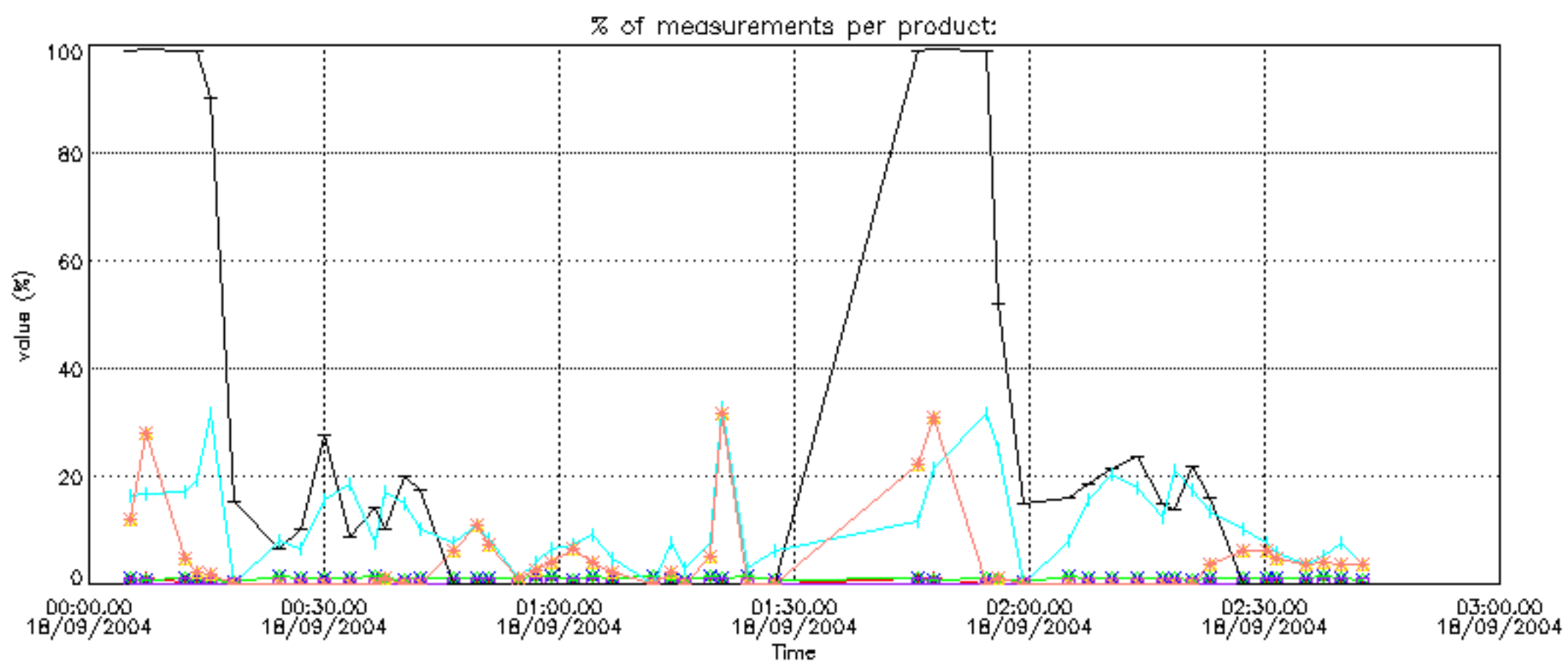
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

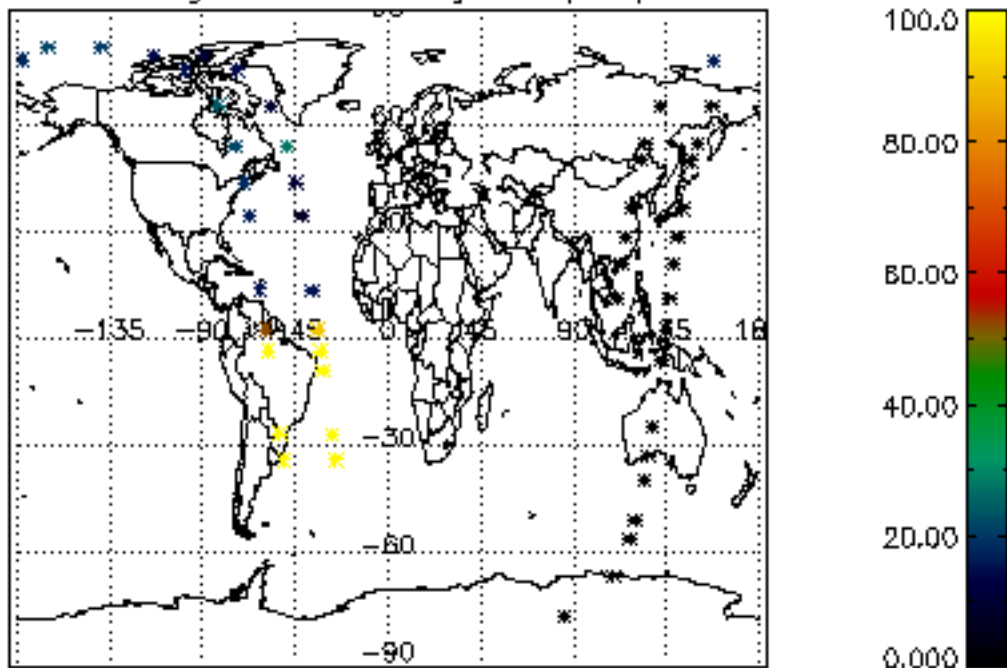
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.8	1447.3	1460.9	1447.6
St. deviation:	3.6901	4.9898	6.6202	7.6436
Maximum:	1670.0	1513.0	1514.0	1506.0
Minimum:	1447.0	1433.0	1448.0	1442.0
Number of data:	28450.	28450.	36800.	36800.



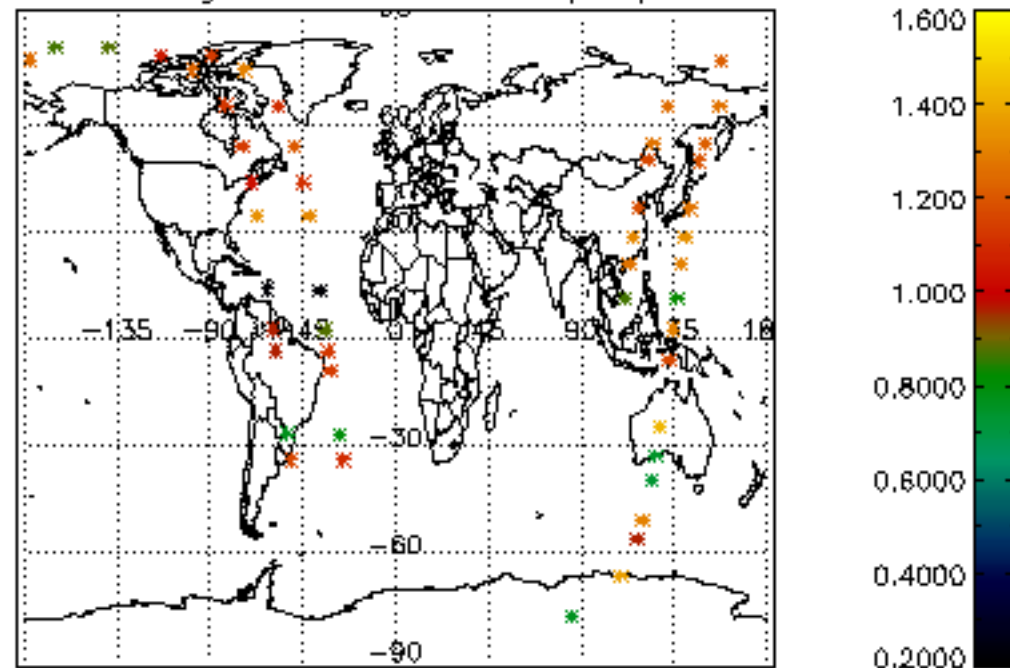




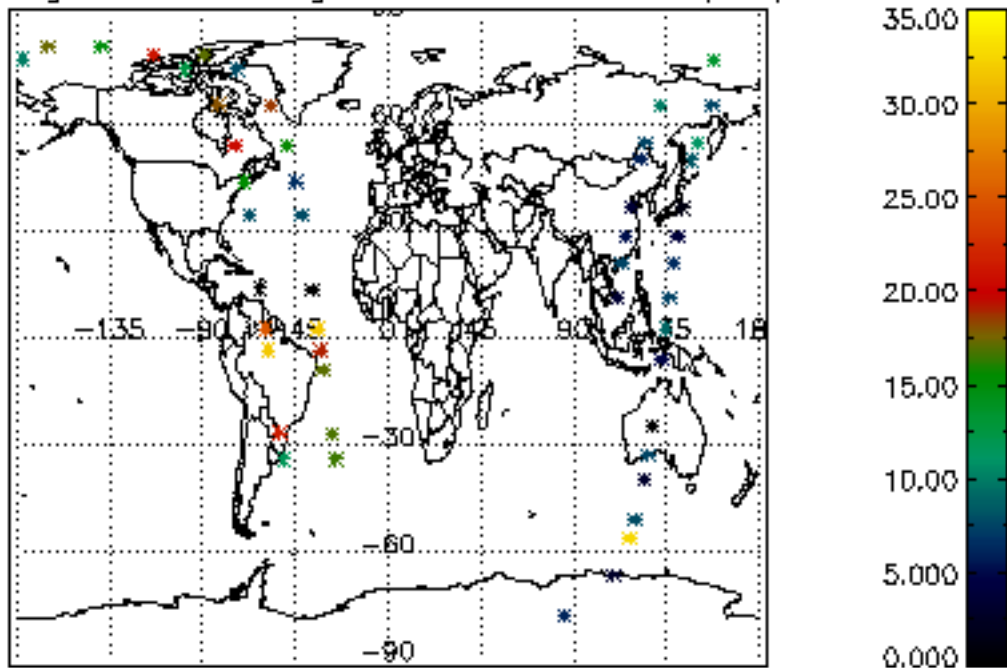
Percentage of cosmic ray hits per profile



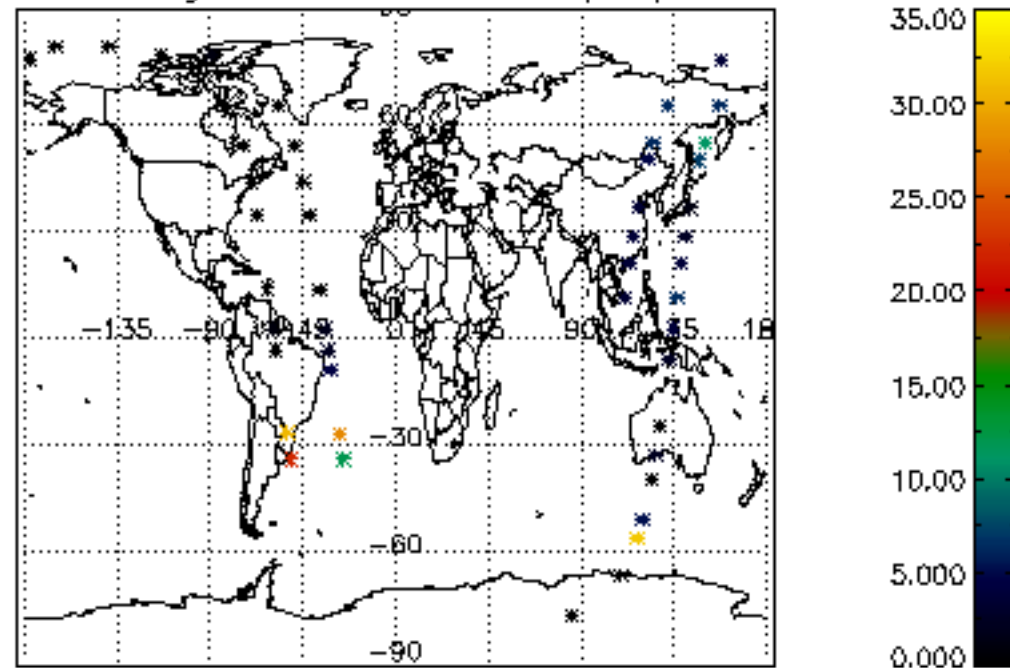
Percentage of datation errors per profile



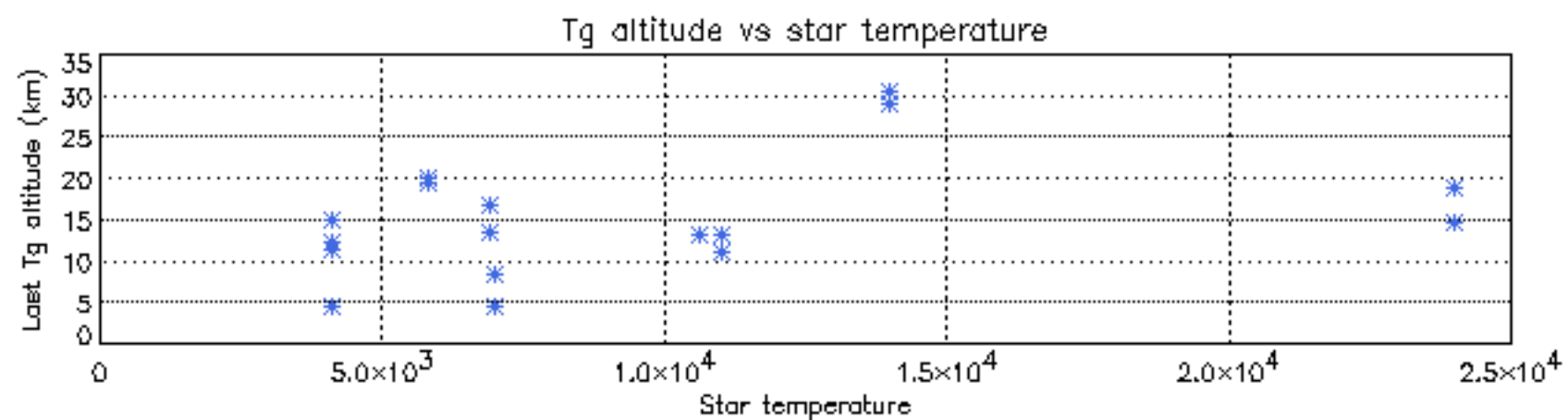
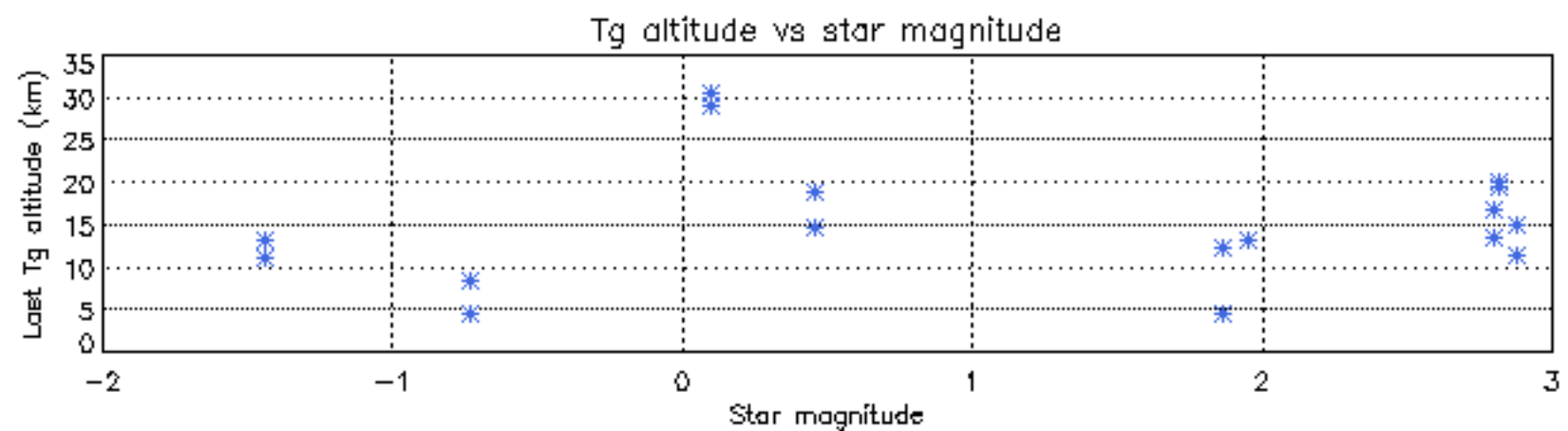
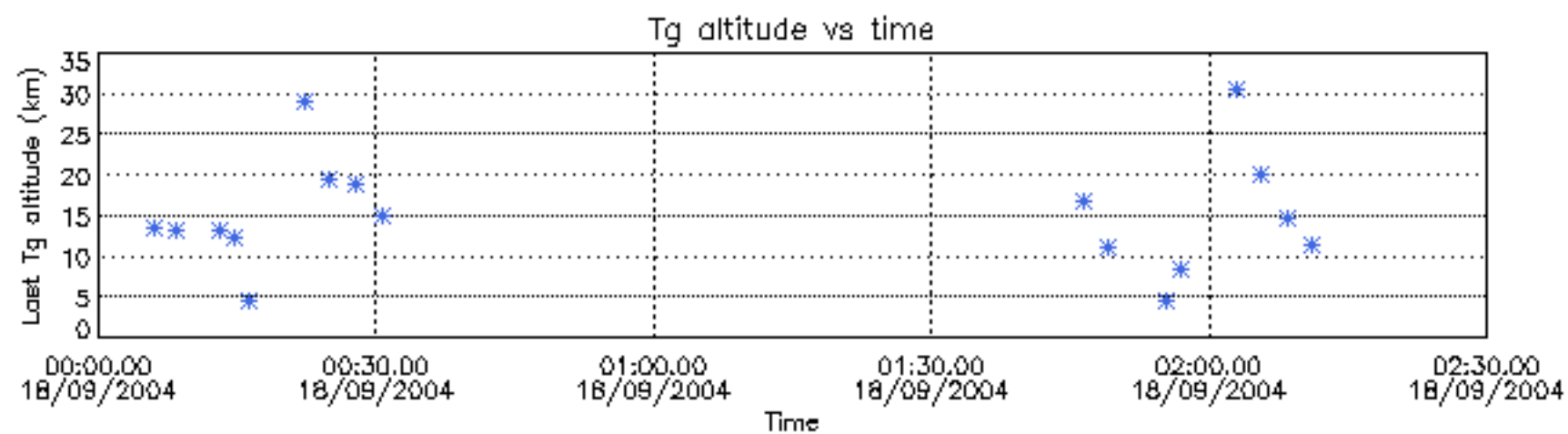
Percentage of star falling outside central band per profile



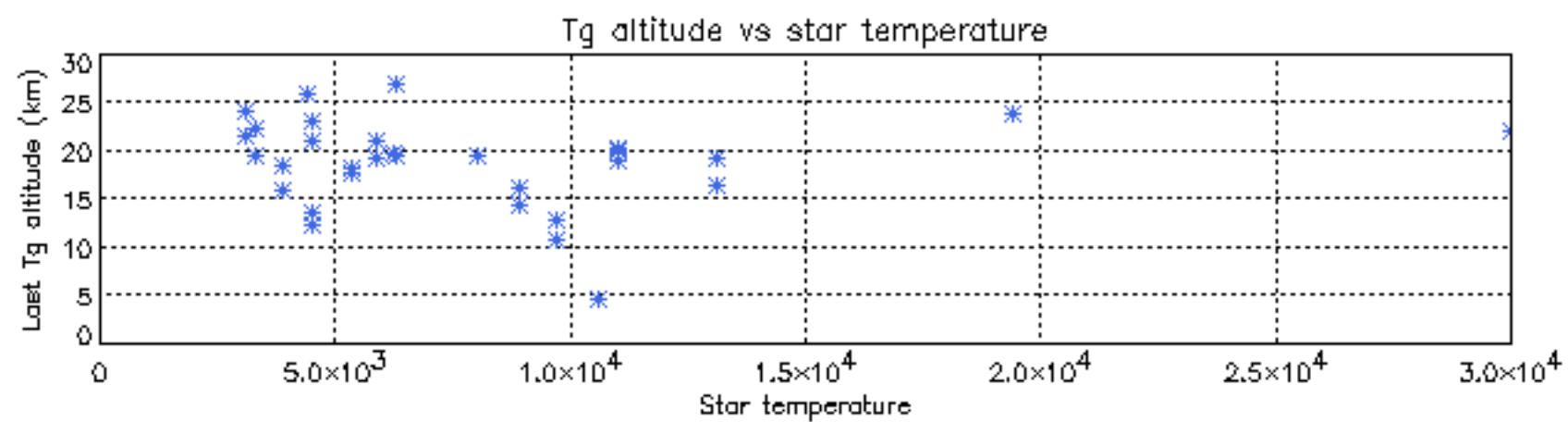
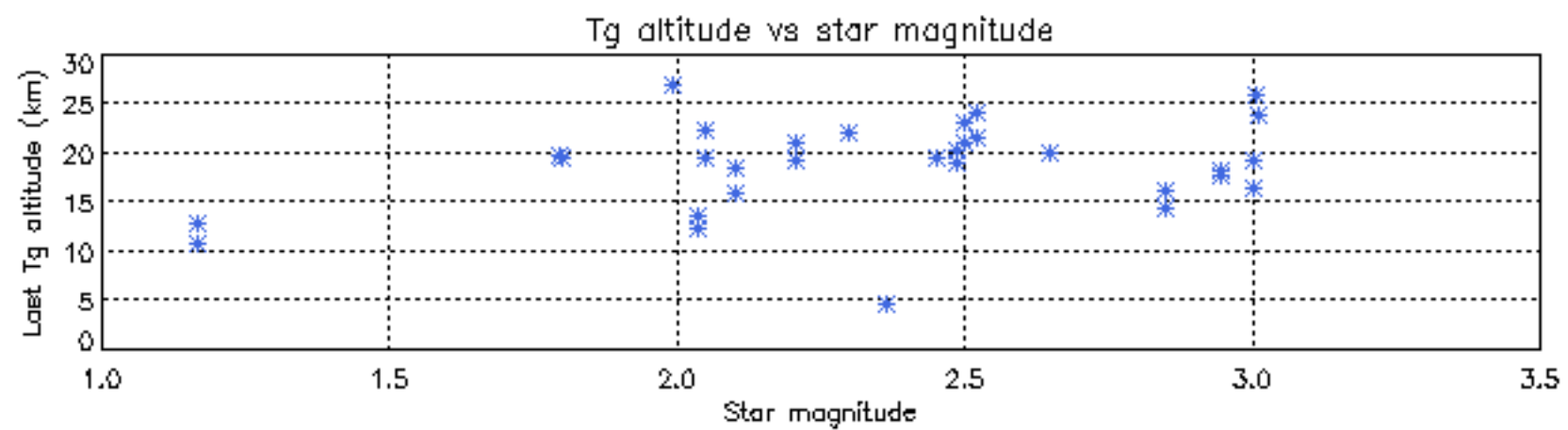
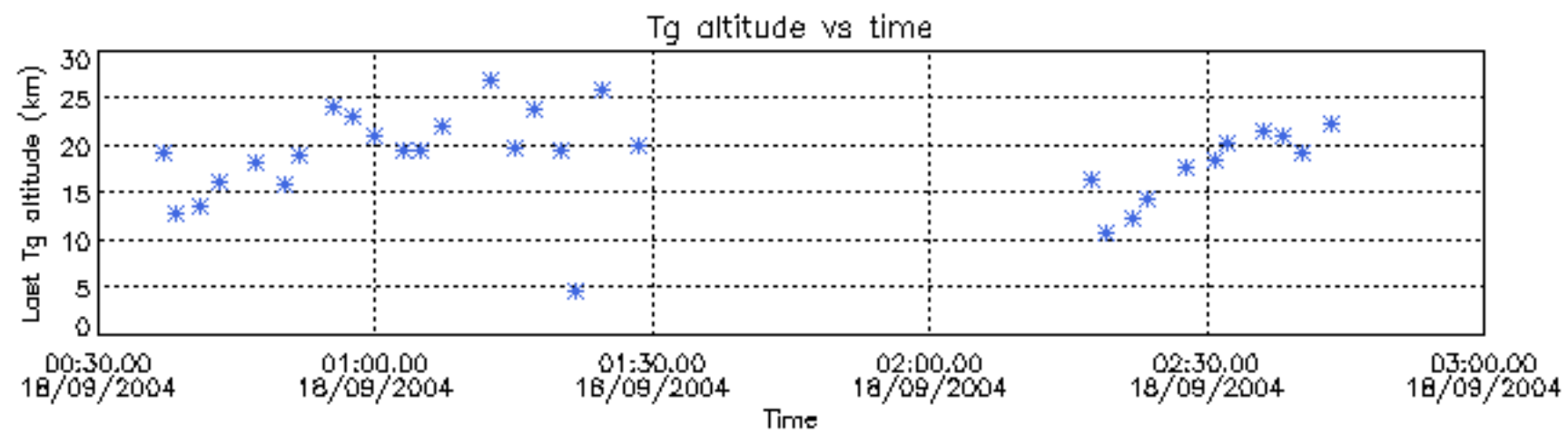
Percentage of saturation errors per profile



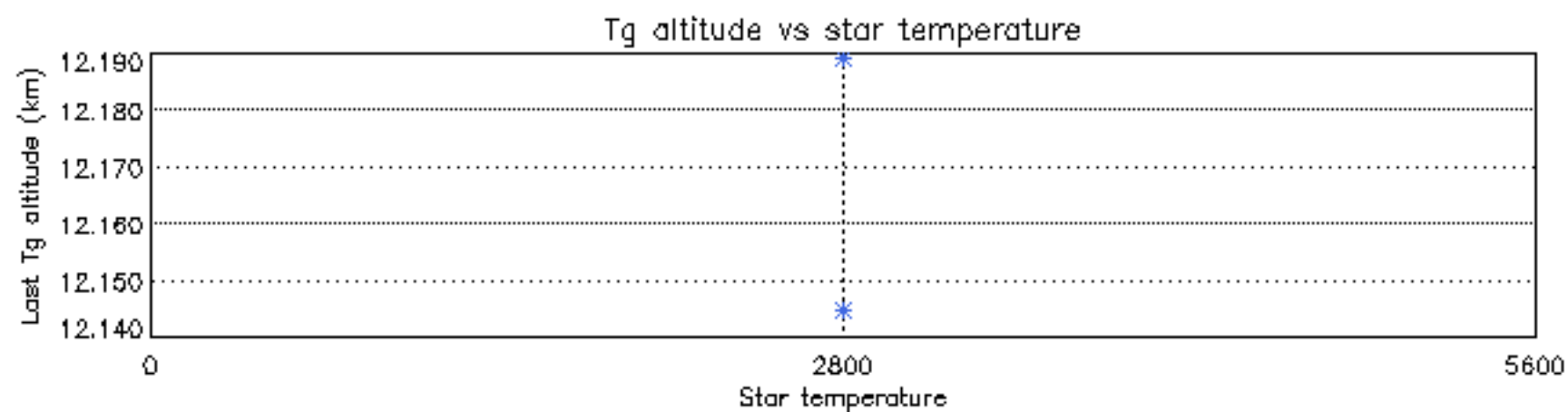
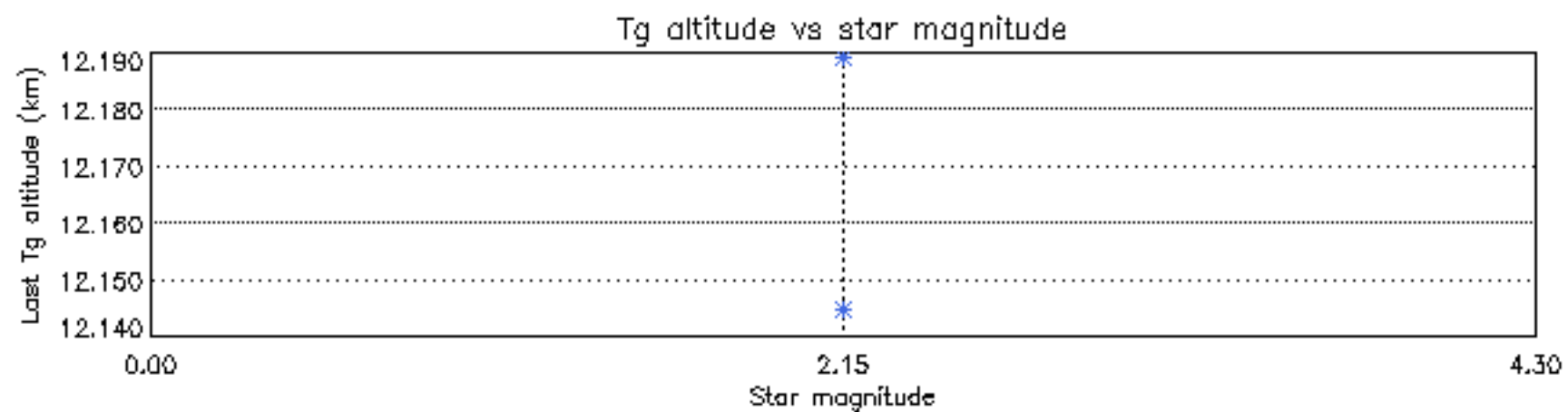
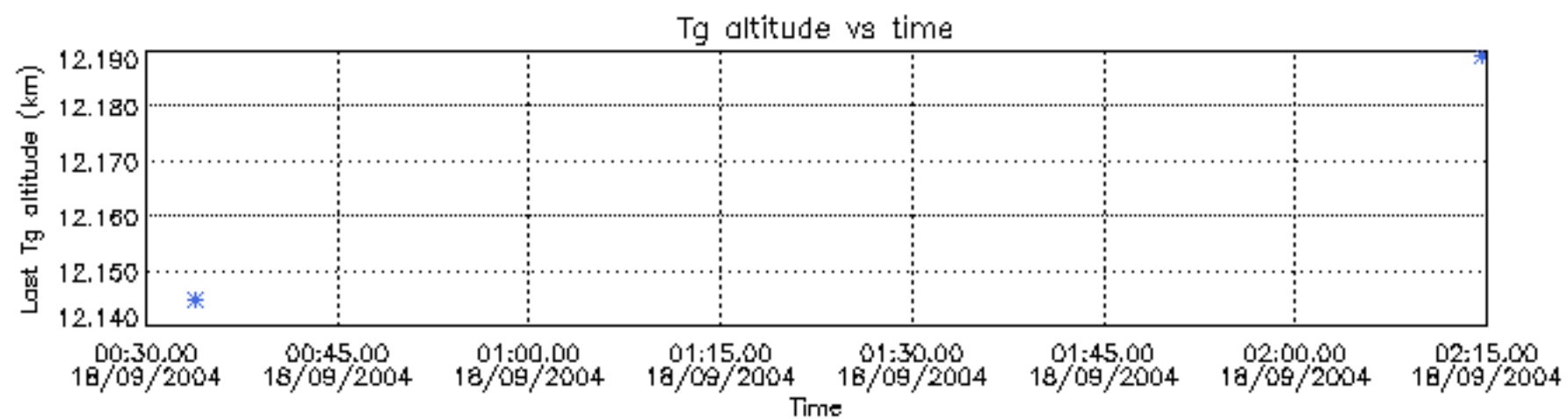
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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 6; 527.2; 01-SEP-2004 00:58:03; Dark ; 43.0; 143; Alp Hyi ; 2.86; 7200;occ; 86; 0;13097
 7; 602.6; 01-SEP-2004 00:59:19; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;13097
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4;	-146.5;	05-SEP-2004	22:08:45;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13166
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22;	3217.9;	05-SEP-2004	23:04:49;	Bright;		47.0;	76;	27Gam Cas	;	2.30;	30000;occ;	94;	0;	13167
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26;	3920.1;	05-SEP-2004	23:16:32;	Bright;		37.0;	82;	48Bet UMa	;	2.37;	10600;occ;	74;	0;	13167
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7;	878.6;	06-SEP-2004	00:06:26;	Dark	;	39.5;	148;	Alp Tuc	;	2.88;	4100;occ;	79;	0;	13168
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21;	3096.6;	06-SEP-2004	00:43:24;	Bright;		40.5;	74;	11Bet Cas	;	2.27;	6600;occ;	81;	0;	13168
22;	3217.8;	06-SEP-2004	00:45:25;	Bright;		46.0;	76;	27Gam Cas	;	2.30;	30000;occ;	92;	0;	13168
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24;	3633.6;	06-SEP-2004	00:52:21;	Bright;		58.0;	160;	23Gam Per	;	2.93;	4700;occ;	116;	0;	13168
25;	3836.8;	06-SEP-2004	00:55:44;	Bright;		39.0;	36;	50Alp UMa	;	1.80;	6300;occ;	78;	0;	13168
26;	3920.2;	06-SEP-2004	00:57:08;	Bright;		53.0;	82;	48Bet UMa	;	2.37;	10600;occ;	106;	0;	13168
27;	4132.3;	06-SEP-2004	01:00:40;	Bright;		63.0;	6;	13Alp Aur	;	0.08;	3400;occ;	126;	0;	13168
28;	4378.1;	06-SEP-2004	01:04:45;	Bright;		56.0;	107;	37The Aur	;	2.65;	11000;occ;	112;	0;	13168
29;	4525.6;	06-SEP-2004	01:07:13;	Bright;		43.5;	17;	78Bet Gem	;	1.16;	4500;occ;	87;	0;	13168
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18;	-2179.4;	11-SEP-2004	16:44:33;	Bright;		36.5;	36;	50Alp UMa	;	1.80;	6300;occ;	73;	0;	13249
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7;	-4138.5;	11-SEP-2004	17:52:30;	Bright;		41.0;	162;	34Alp Aqr	;	2.94;	5350;occ;	82;	0;	13250
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32;	1302.2;	19-SEP-2004	10:08:25;	Dark	;	40.0;	172;	Gam	Gru	;	3.00;	13100;	occ;	80;	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
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5;	-3638.0;	19-SEP-2004	12:07:16;	Bright;	;	39.5;	93;	53Bet	Peg	;	2.52;	3100;	occ;	79;	0;	13361
6;	-3496.0;	19-SEP-2004	12:09:38;	Bright;	;	37.5;	92;	53Eps	Cyg	;	2.50;	4500;	occ;	75;	0;	13361
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8;	-3232.5;	19-SEP-2004	12:14:02;	Bright;	;	60.0;	53;	43Bet	And	;	2.05;	3300;	occ;	120;	0;	13361
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13;	-2155.8;	19-SEP-2004	12:31:58;	Bright;	;	37.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	74;	0;	13361
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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
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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
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9;-3378.6; 30-SEP-2004 19:48:37; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;13523
10;-3086.4; 30-SEP-2004 19:53:30; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;13523
11;-3006.3; 30-SEP-2004 19:54:50; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13523
12;-2769.1; 30-SEP-2004 19:58:47; Bright; 52.0; 160; 23Gam Per ; 2.93; 4700;occ; 104; 0;13523
13;-2608.8; 30-SEP-2004 20:01:27; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13523
14;-2485.4; 30-SEP-2004 20:03:31; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;13523
15;-2131.6; 30-SEP-2004 20:09:24; Bright; 35.0; 36; 50Alp UMa ; 1.80; 6300;occ; 70; 0;13523
16;-2041.6; 30-SEP-2004 20:10:54; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;13523
17;-1848.9; 30-SEP-2004 20:14:07; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;13523
18;-1703.2; 30-SEP-2004 20:16:33; Bright; 90.0; 107; 37The Aur ; 2.65; 11000;occ; 180; 0;13523
19;-1524.7; 30-SEP-2004 20:19:31; Bright; 54.5; 24; 66Alp Gem ; 1.58; 10200;occ; 109; 0;13523
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
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27; 602.6; 30-SEP-2004 20:54:58; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;13524
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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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