

GOMOS Daily Report 16-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	18SEP2004 05:01:41
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (16SEP2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (17SEP2004 00:00:00)

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

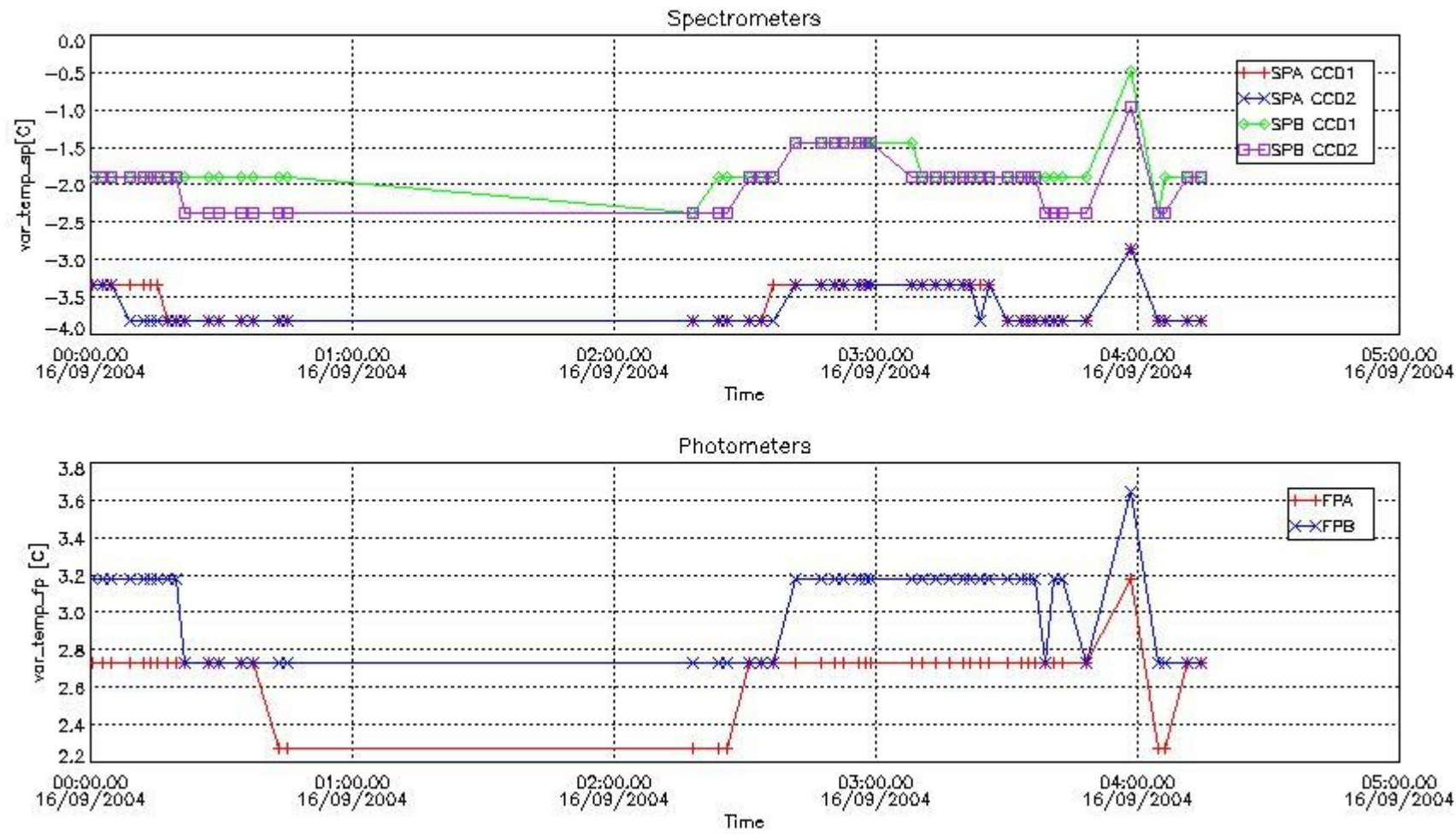
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040916_000022_000000492030_00231_13311_0010.N1	16-SEP-2004 00:00:22	Bright	48.500	18	24Alp PsA	1.1660	9700.0	97	13311	No
GOM_TRA_1PNPDE20040916_000247_000000662030_00231_13311_0011.N1	16-SEP-2004 00:02:47	Bright	66.000	52	16Bet Cet	2.0370	4500.0	132	13311	No
GOM_TRA_1PNPDE20040916_000453_000000412030_00231_13311_0012.N1	16-SEP-2004 00:04:53	Bright	40.500	142	49Del Cap	2.8500	8900.0	81	13311	No
GOM_TRA_1PNPDE20040916_000905_000000422030_00231_13311_0013.N1	16-SEP-2004 00:09:05	Bright	41.500	162	34Alp Aqr	2.9440	5350.0	83	13311	No
GOM_TRA_1PNPDE20040916_001207_000000392030_00231_13311_0014.N1	16-SEP-2004 00:12:07	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	13311	No
GOM_TRA_1PNPDE20040916_001339_000000422030_00231_13311_0015.N1	16-SEP-2004 00:13:39	Bright	41.500	90	54Alp Peg	2.4870	11000.	83	13311	No
GOM_TRA_1PNPDE20040916_001507_000000502030_00231_13311_0016.N1	16-SEP-2004 00:15:07	Bright	50.000	140	88Gam Peg	2.8340	26000.	100	13311	No
GOM_TRA_1PNPDE20040916_001732_000000402030_00231_13311_0017.N1	16-SEP-2004 00:17:32	Bright	40.000	93	53Bet Peg	2.5200	3100.0	80	13311	No
GOM_TRA_1PNPDE20040916_001927_000000392030_00231_13311_0018.N1	16-SEP-2004 00:19:27	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	13311	No
GOM_TRA_1PNPDE20040916_002134_000000402030_00231_13311_0019.N1	16-SEP-2004 00:21:34	Bright	39.500	66	37Gam Cyg	2.2080	5900.0	79	13311	No
GOM_TRA_1PNPDE20040916_002653_000000382030_00231_13311_0020.N1	16-SEP-2004 00:26:53	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	13311	No
GOM_TRA_1PNPDE20040916_002934_000000452030_00231_13311_0021.N1	16-SEP-2004 00:29:34	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	13311	No
GOM_TRA_1PNPDE20040916_003430_000000382030_00231_13311_0022.N1	16-SEP-2004 00:34:30	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	13311	No
GOM_TRA_1PNPDE20040916_003726_000000682030_00231_13311_0023.N1	16-SEP-2004 00:37:26	Bright	67.500	35	33Alp Per	1.7950	6250.0	135	13311	No
GOM_TRA_1PNPDE20040916_004318_000000392030_00231_13311_0024.N1	16-SEP-2004 00:43:18	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	13311	No
GOM_TRA_1PNPDE20040916_004513_000000732030_00231_13311_0025.N1	16-SEP-2004 00:45:13	Bright	72.500	6	13Alp Aur	0.080000	3400.0	145	13311	No
GOM_TRA_1PNPDE20040916_021801_000000672030_00232_13312_0000.N1	16-SEP-2004 02:18:01	Bright	67.000	35	33Alp Per	1.7950	6250.0	134	13312	No
GOM_TRA_1PNPDE20040916_022356_000000372030_00232_13312_0001.N1	16-SEP-2004 02:23:56	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	13312	No
GOM_TRA_1PNPDE20040916_022549_000000672030_00232_13312_0002.N1	16-SEP-2004 02:25:49	Bright	66.500	6	13Alp Aur	0.080000	3400.0	133	13312	No
GOM_TRA_1PNPDE20040916_023051_000000632030_00232_13312_0003.N1	16-SEP-2004 02:30:51	Bright	62.500	107	37The Aur	2.6490	11000.	125	13312	No
GOM_TRA_1PNPDE20040916_023351_000000462030_00232_13312_0004.N1	16-SEP-2004 02:33:51	Twilight	46.000	17	78Bet Gem	1.1610	4500.0	92	13312	No
GOM_TRA_1PNPDE20040916_023628_000001302030_00232_13312_0005.N1	16-SEP-2004 02:36:28	Twilight	129.50	28	12Bet Tau	1.6500	15200.	259	13312	No
GOM_TRA_1PNPDE20040916_024123_000000552030_00232_13312_0006.N1	16-SEP-2004 02:41:23	Twilight	54.500	8	10Alp CMi	0.40000	6500.0	109	13312	No
GOM_TRA_1PNPDE20040916_024721_000001252030_00232_13312_0007.N1	16-SEP-2004 02:47:21	Dark	124.50	14	58Alp Ori	0.87000	3000.0	249	13312	No
GOM_TRA_1PNPDE20040916_025033_000000622030_00232_13312_0008.N1	16-SEP-2004 02:50:33	Dark	61.500	1	9Alp CMa	-1.4400	11000.	123	13312	No
GOM_TRA_1PNPDE20040916_025242_000000432030_00232_13312_0009.N1	16-SEP-2004 02:52:42	Dark	42.500	65	Lam Vel	2.2040	4400.0	85	13312	No
GOM_TRA_1PNPDE20040916_025559_000000402030_00232_13312_0010.N1	16-SEP-2004 02:55:59	Dark	40.000	46	Del Vel	1.9540	10600.	80	13312	No
GOM_TRA_1PNPDE20040916_025730_000000512030_00232_13312_0011.N1	16-SEP-2004 02:57:30	Dark	50.500	41	Eps Car	1.8600	4100.0	101	13312	No
GOM_TRA_1PNPDE20040916_025859_000000502030_00233_13313_0012.N1	16-SEP-2004 02:58:59	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	13313	No
GOM_TRA_1PNPDE20040916_030806_000000402030_00233_13313_0013.N1	16-SEP-2004 03:08:06	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	13313	No
GOM_TRA_1PNPDE20040916_031039_000000472030_00233_13313_0014.N1	16-SEP-2004 03:10:39	Dark	46.500	9	Alp Eri	0.45300	24000.	93	13313	No
GOM_TRA_1PNPDE20040916_031339_000000402030_00233_13313_0015.N1	16-SEP-2004 03:13:39	Dark	39.500	148	Alp Tuc	2.8780	4100.0	79	13313	No
GOM_TRA_1PNPDE20040916_031700_000000472030_00233_13313_0016.N1	16-SEP-2004 03:17:00	Twilight	46.500	63	Bet Gru	2.1500	2800.0	93	13313	No
GOM_TRA_1PNPDE20040916_032010_000000392030_00233_13313_0017.N1	16-SEP-2004 03:20:10	Bright	39.000	172	Gam Gru	3.0030	13100.	78	13313	No
GOM_TRA_1PNPDE20040916_032134_000000422030_00233_13313_0018.N1	16-SEP-2004 03:21:34	Bright	42.000	18	24Alp PsA	1.1660	9700.0	84	13313	No
GOM_TRA_1PNPDE20040916_032359_000000652030_00233_13313_0019.N1	16-SEP-2004 03:23:59	Bright	64.500	52	16Bet Cet	2.0370	4500.0	129	13313	No
GOM_TRA_1PNPDE20040916_032603_000000452030_00233_13313_0020.N1	16-SEP-2004 03:26:03	Bright	44.500	142	49Del Cap	2.8500	8900.0	89	13313	No
GOM_TRA_1PNPDE20040916_033018_000000412030_00233_13313_0021.N1	16-SEP-2004 03:30:18	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	13313	No
GOM_TRA_1PNPDE20040916_033319_000000392030_00233_13313_0022.N1	16-SEP-2004 03:33:19	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	13313	No
GOM_TRA_1PNPDE20040916_033449_000000442030_00233_13313_0023.N1	16-SEP-2004 03:34:49	Bright	43.500	90	54Alp Peg	2.4870	11000.	87	13313	No
GOM_TRA_1PNPDE20040916_033618_000000502030_00233_13313_0024.N1	16-SEP-2004 03:36:18	Bright	49.500	140	88Gam Peg	2.8340	26000.	99	13313	No
GOM_TRA_1PNPDE20040916_033843_000000412030_00233_13313_0025.N1	16-SEP-2004 03:38:43	Bright	41.000	93	53Bet Peg	2.5200	3100.0	82	13313	No
GOM_TRA_1PNPDE20040916_034039_000000372030_00233_13313_0026.N1	16-SEP-2004 03:40:39	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	13313	No
GOM_TRA_1PNPDE20040916_034247_000000382030_00233_13313_0027.N1	16-SEP-2004 03:42:47	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	13313	No
GOM_TRA_1PNPDE20040916_034804_000000392030_00233_13313_0028.N1	16-SEP-2004 03:48:04	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	13313	No
GOM_TRA_1PNPDE20040916_035836_000000672030_00233_13313_0000.N1	16-SEP-2004 03:58:36	Bright	67.000	35	33Alp Per	1.7950	6250.0	134	13313	Yes
GOM_TRA_1PNPDE20040916_040432_000000392030_00233_13313_0001.N1	16-SEP-2004 04:04:32	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	13313	No
GOM_TRA_1PNPDE20040916_040624_000000722030_00233_13313_0002.N1	16-SEP-2004 04:06:24	Bright	72.000	6	13Alp Aur	0.080000	3400.0	144	13313	No
GOM_TRA_1PNPDE20040916_041127_000000612030_00233_13313_0003.N1	16-SEP-2004 04:11:27	Bright	60.500	107	37The Aur	2.6490	11000.	121	13313	No

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



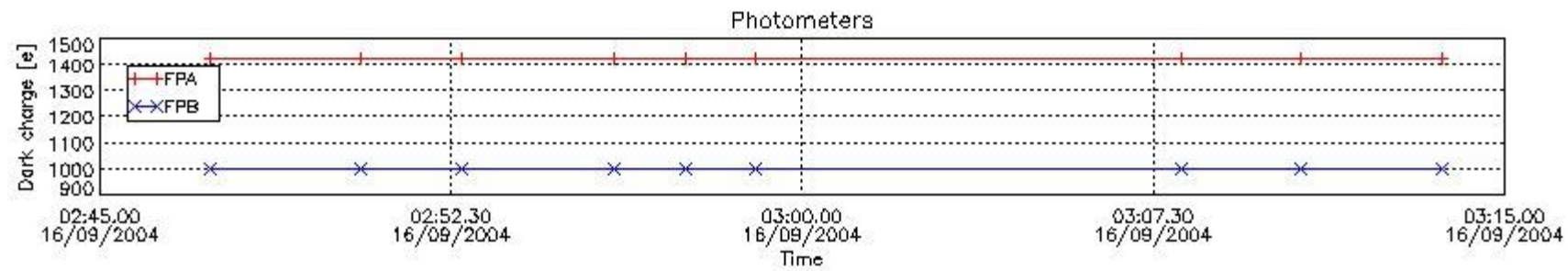
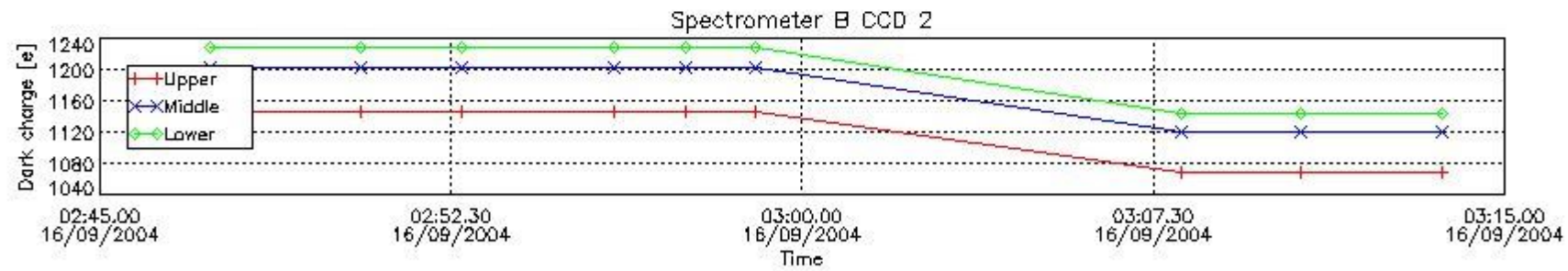
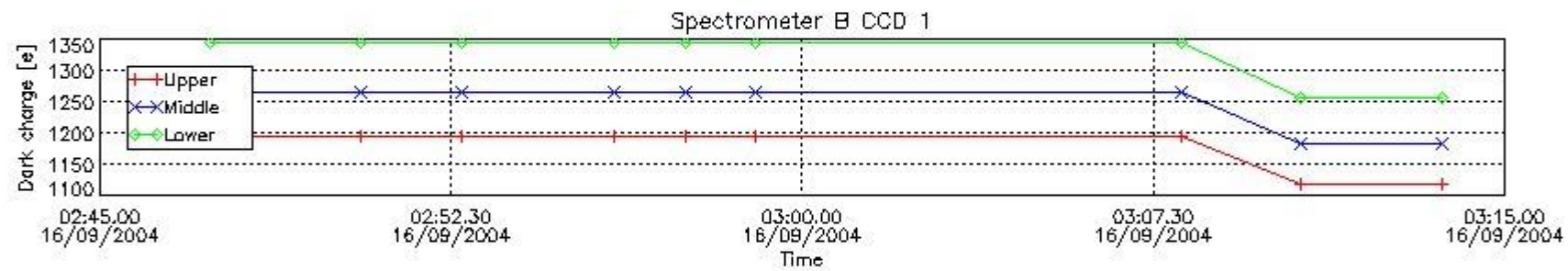
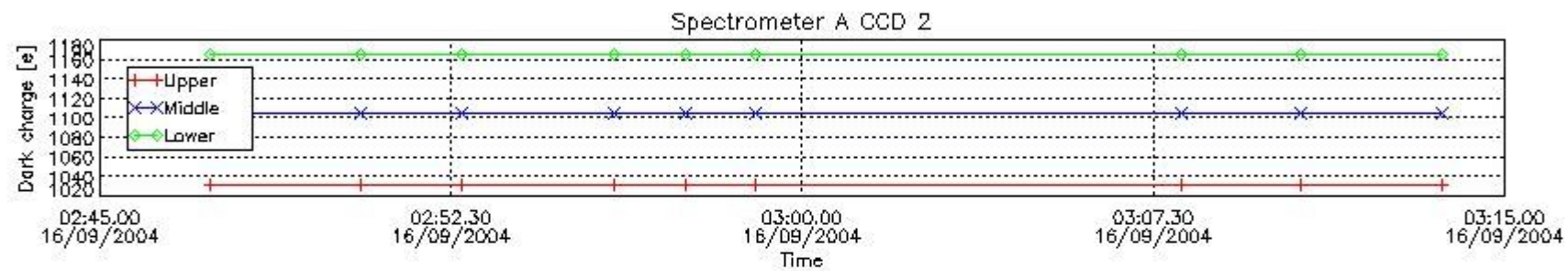
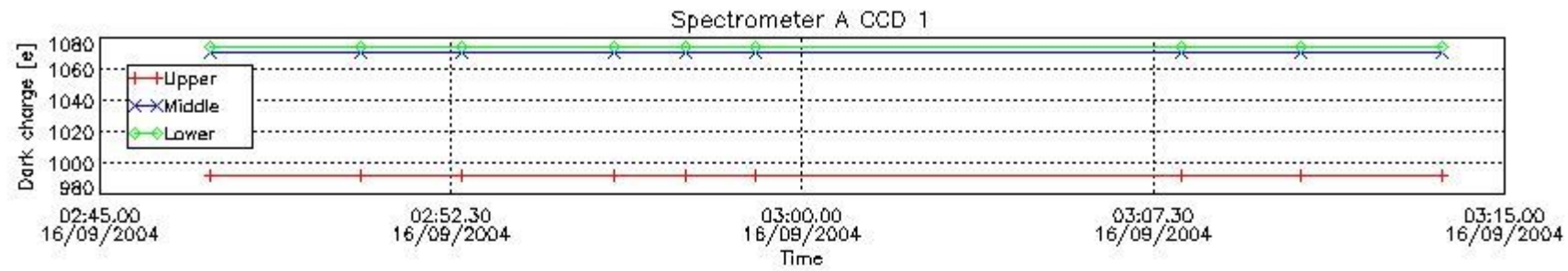
4. Overview of dark signal processing per product

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



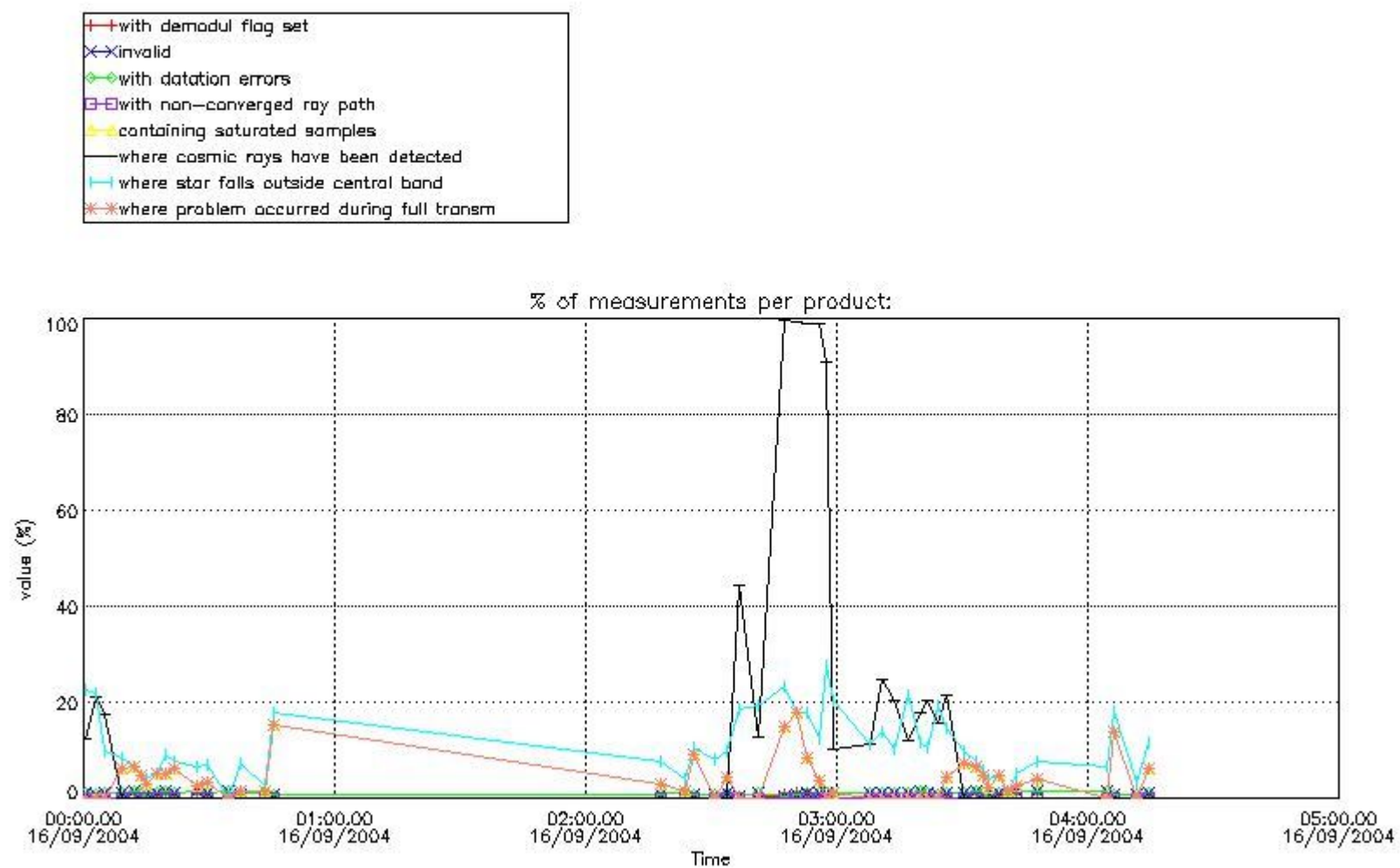
5. Demodulation flag and quality information monitoring

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.

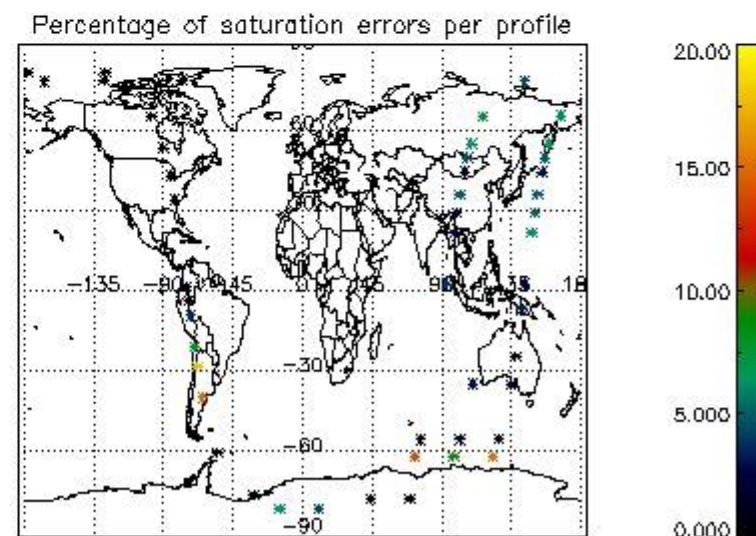
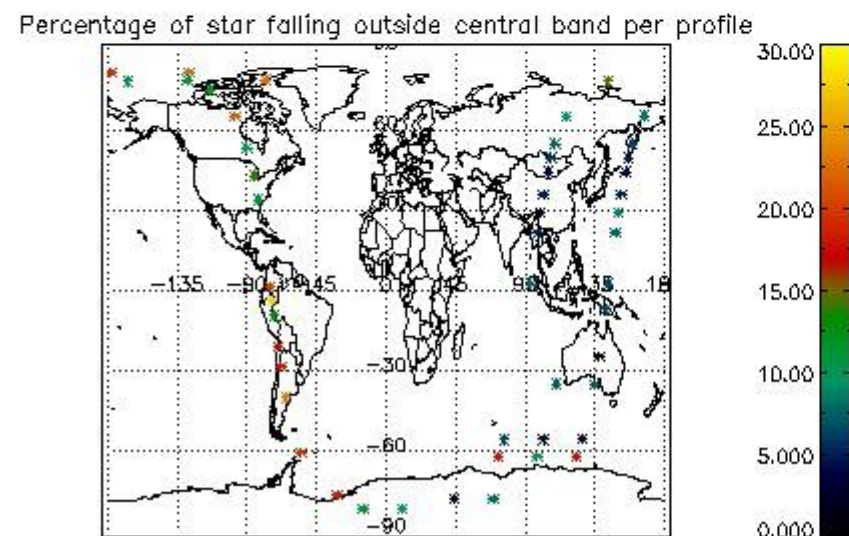
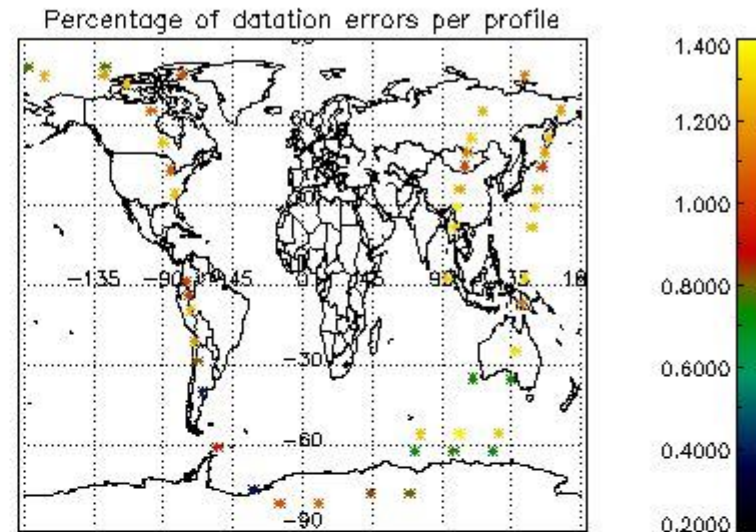
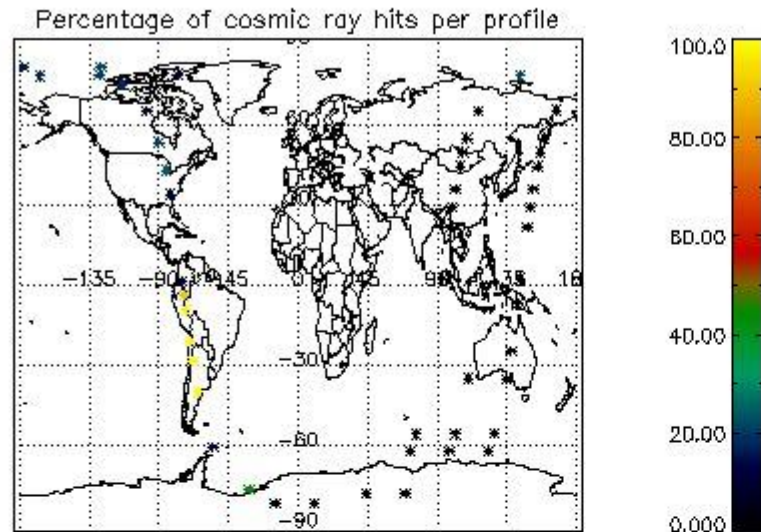
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.2449 %
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)



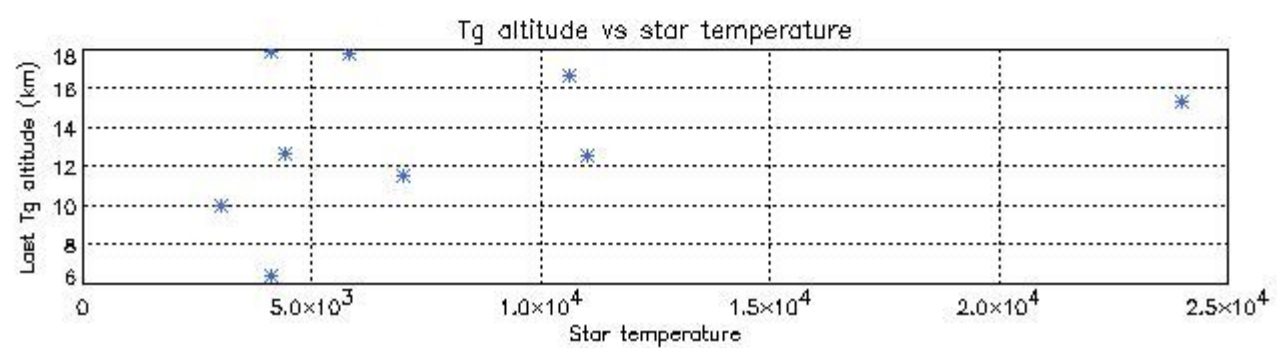
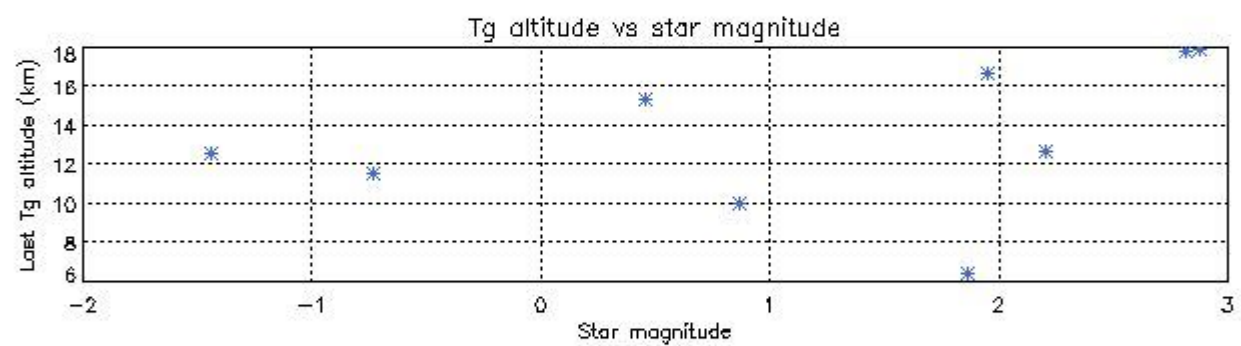
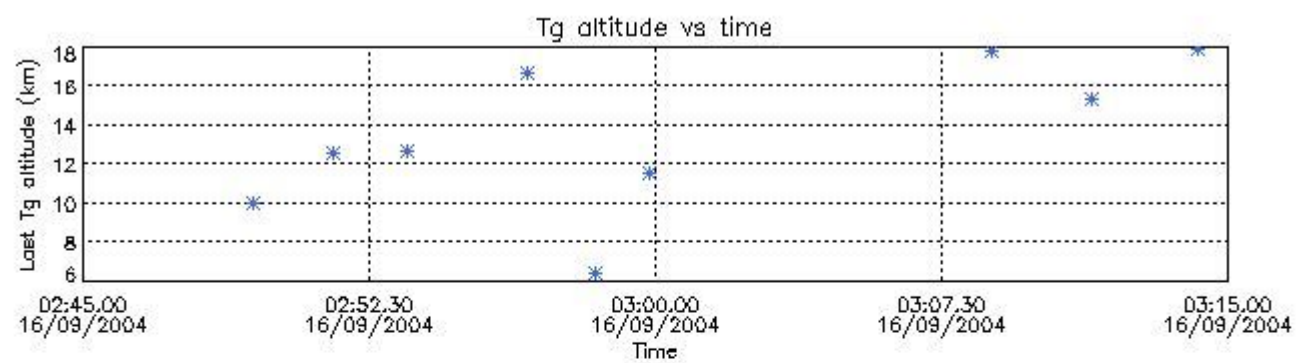
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.448	18.989	13.576
St. deviation:	3.8730	4.0890	2.8700
Maximum:	17.948	27.574	17.155
Minimum:	6.4069	9.6931	10.887
Number of data:	9.0000	35.000	5.0000

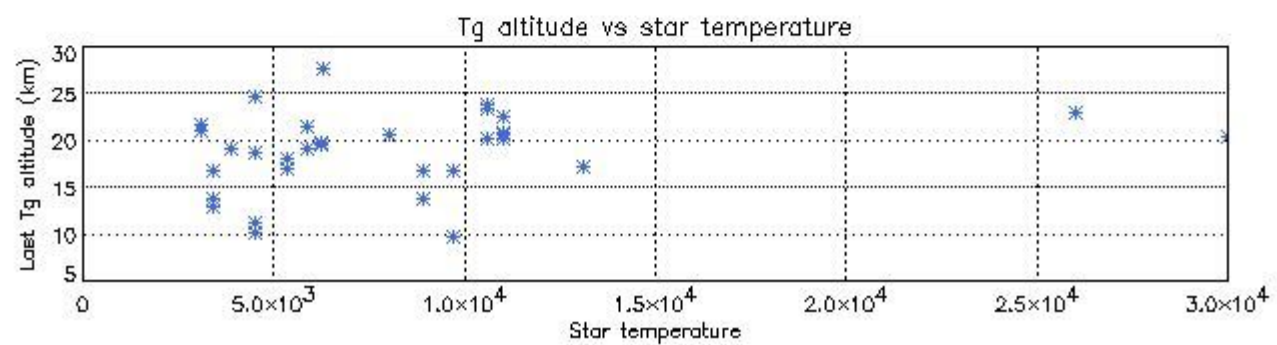
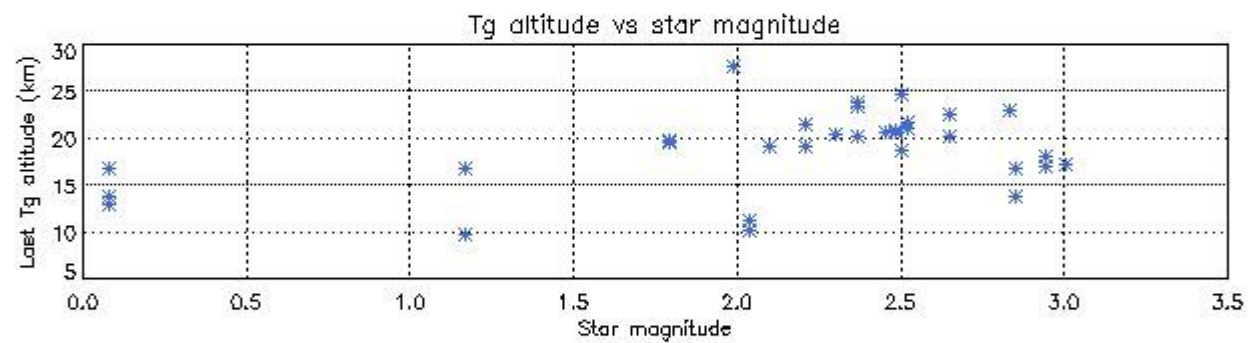
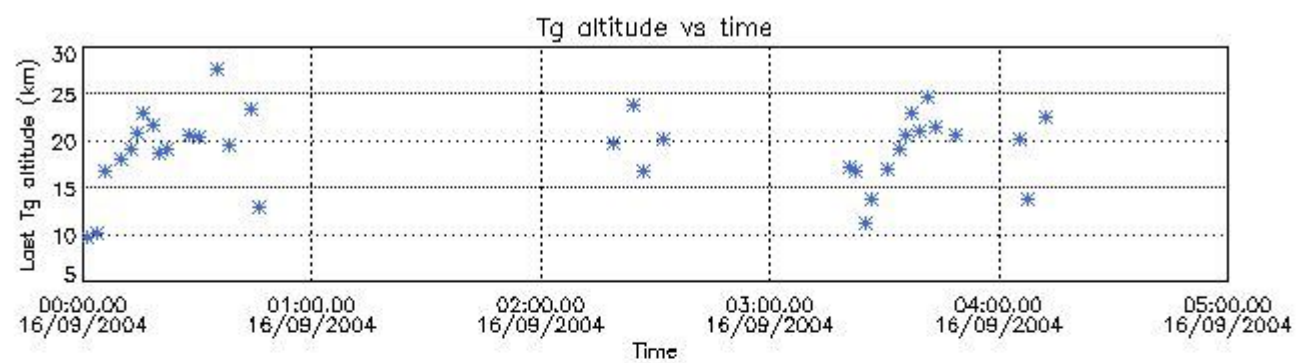
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



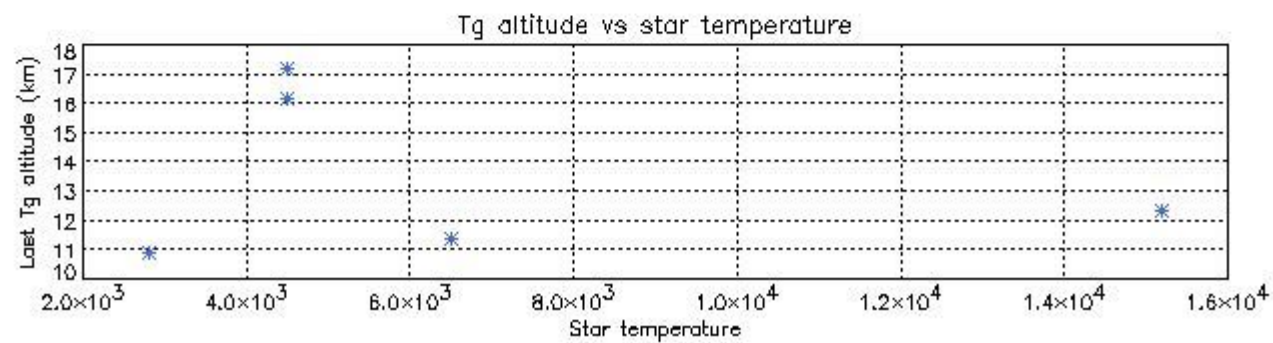
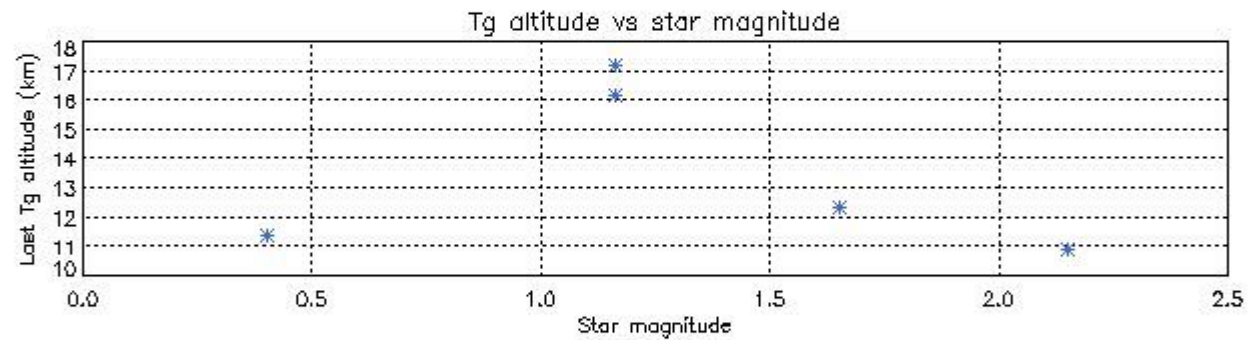
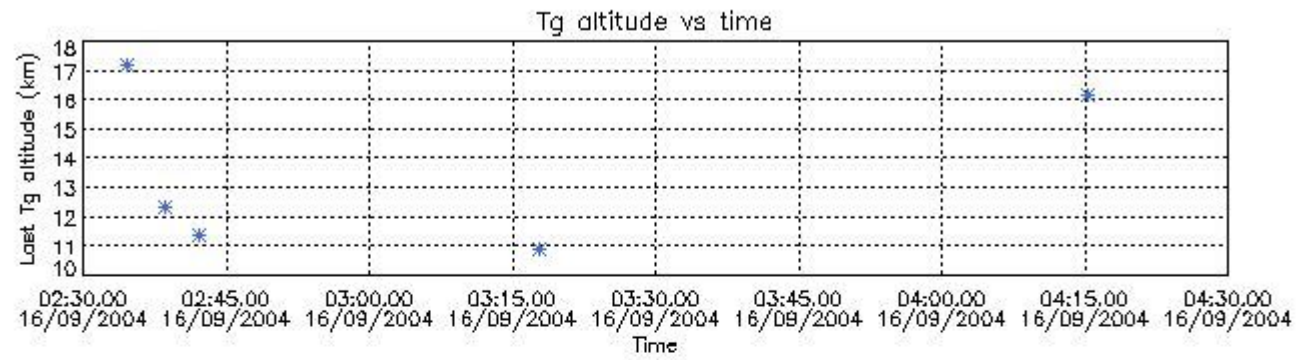
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

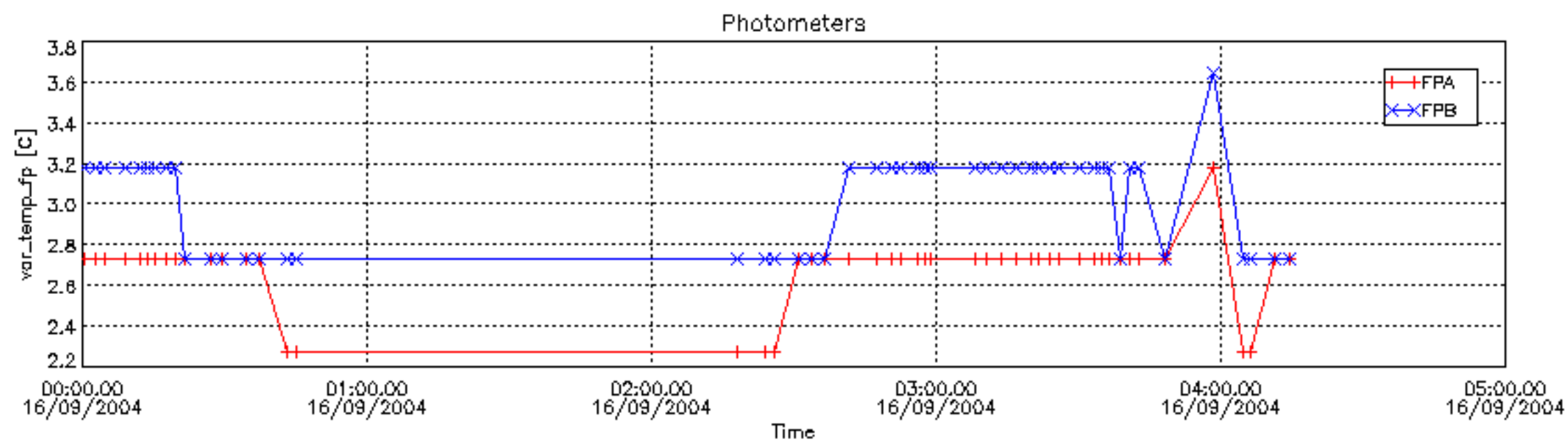
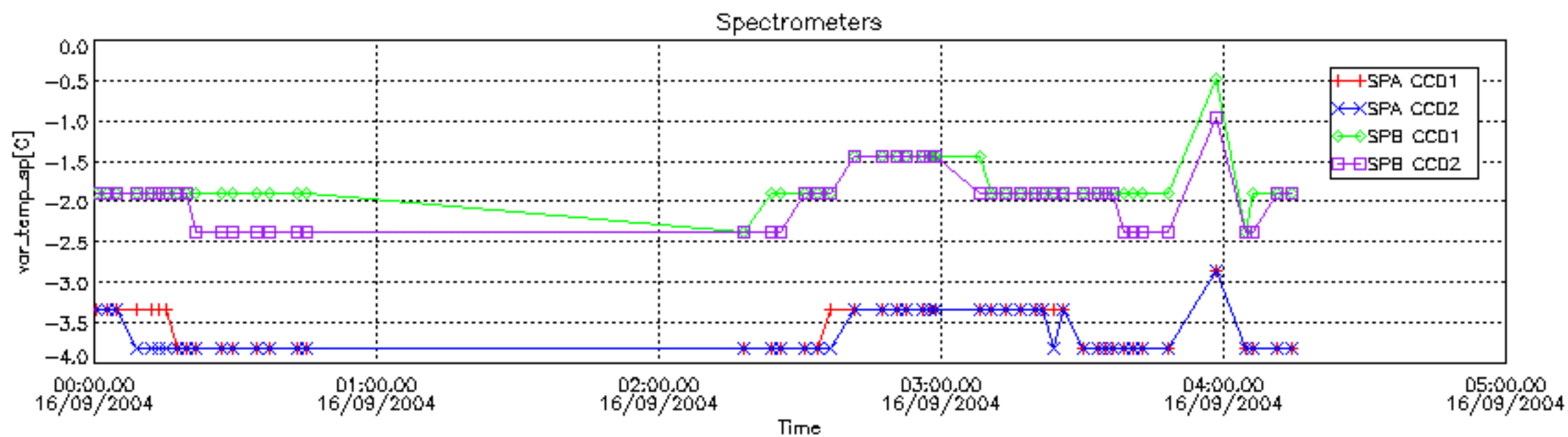
Tangent altitude at which the star is lost

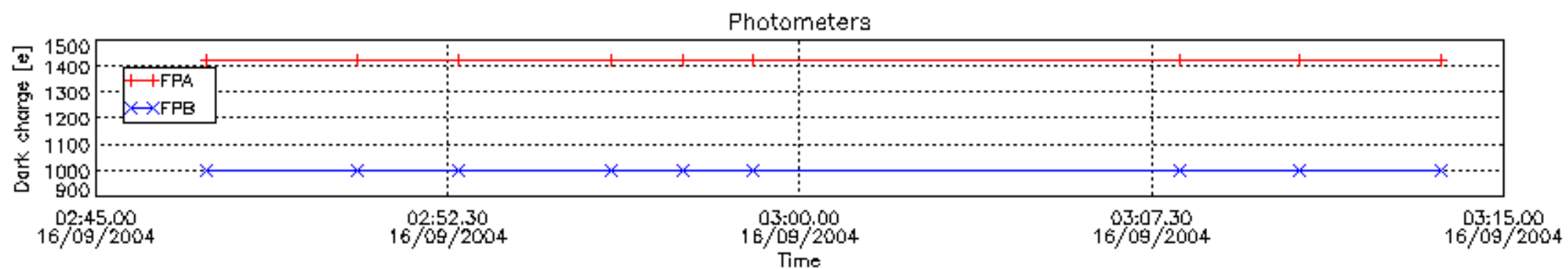
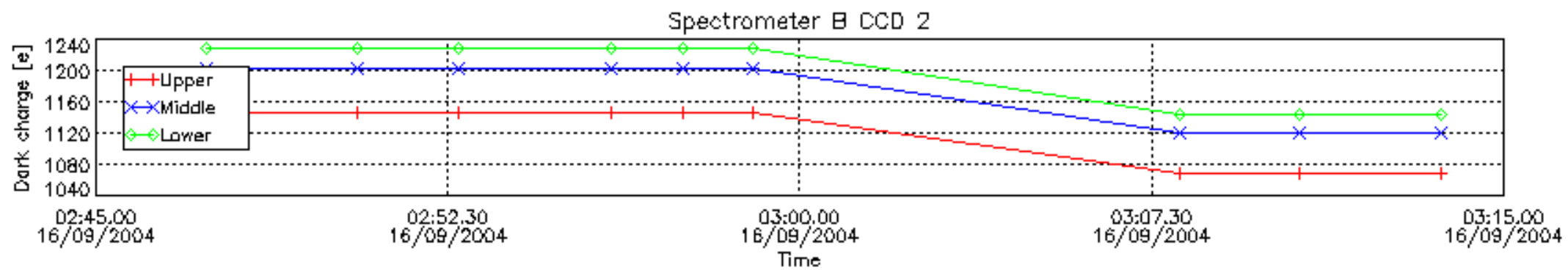
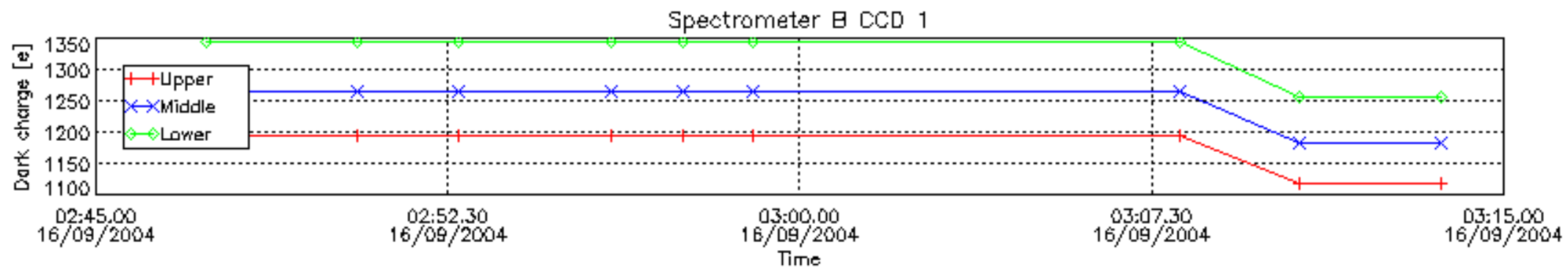
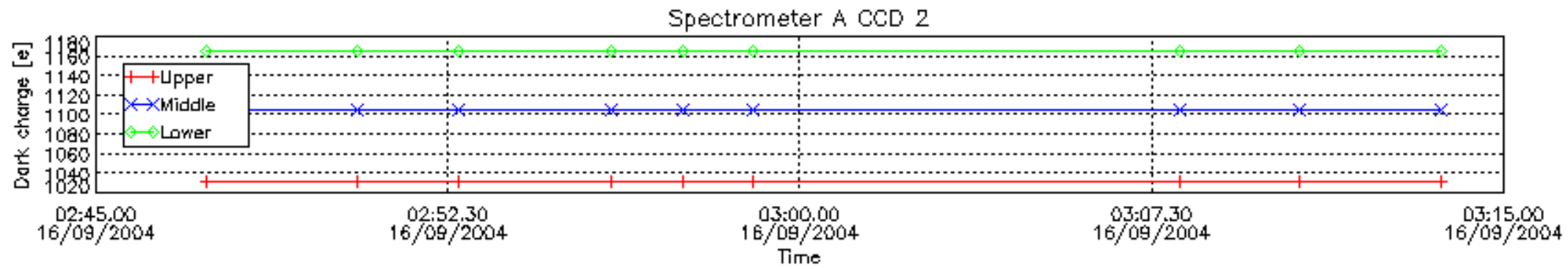
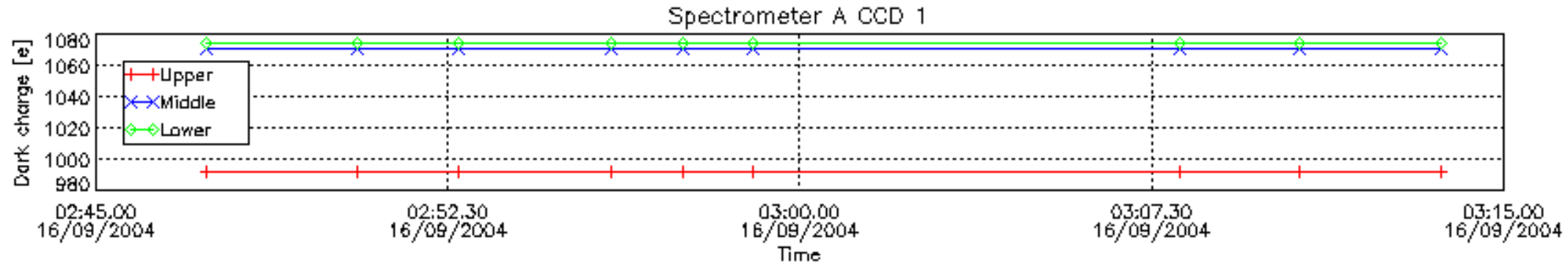


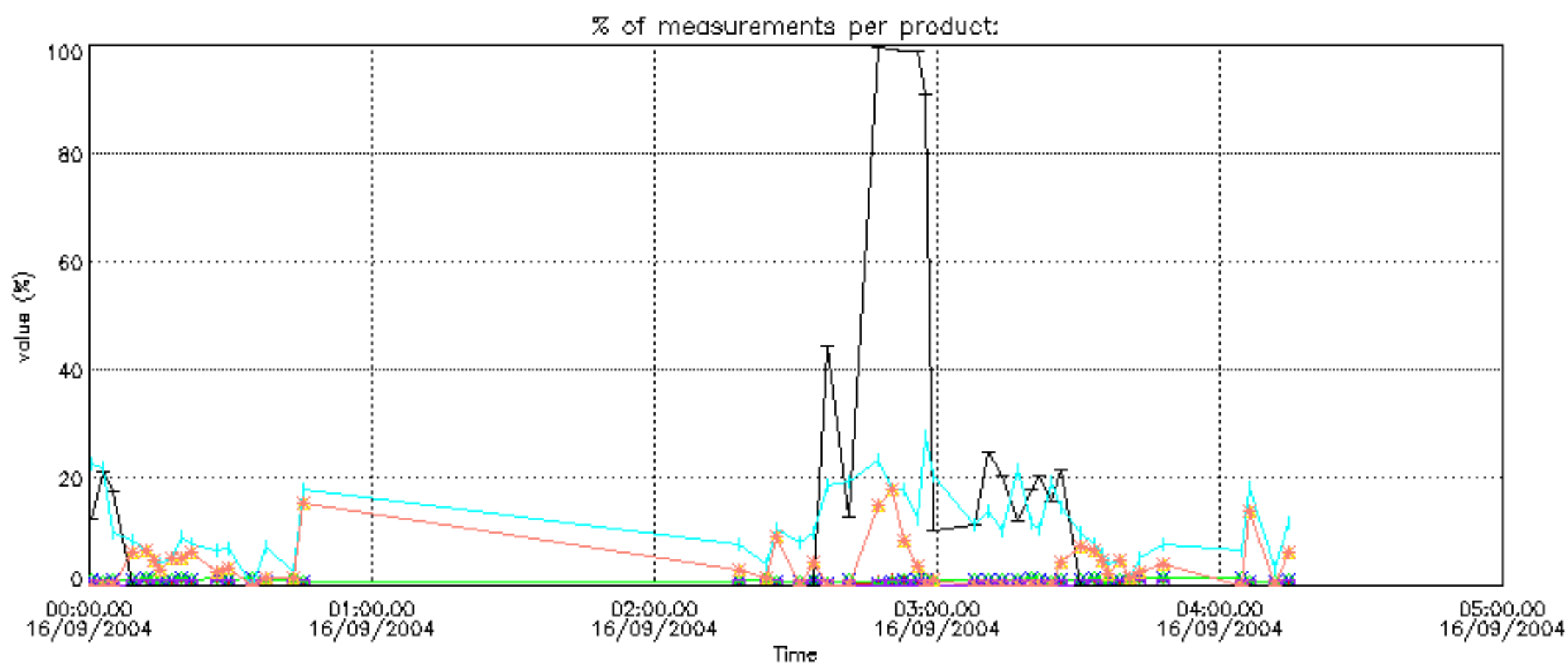
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

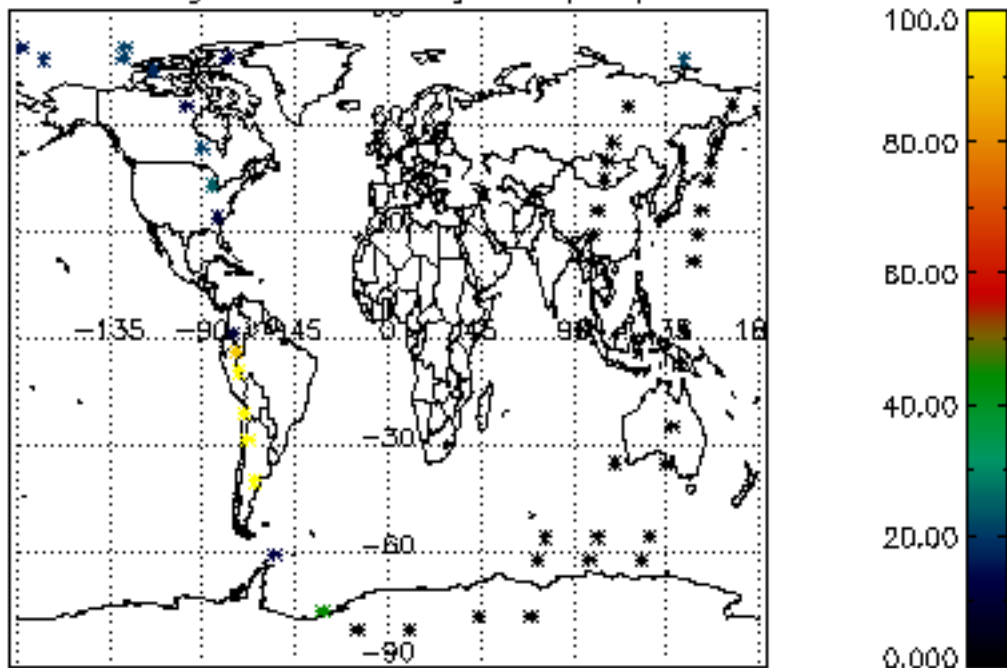
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.2	1446.5	1461.4	1448.0
St. deviation:	3.0890	4.4499	6.9709	7.9805
Maximum:	1487.0	1467.0	1523.0	1511.0
Minimum:	1446.0	1430.0	1431.0	1418.0
Number of data:	11700.	11700.	43500.	43500.



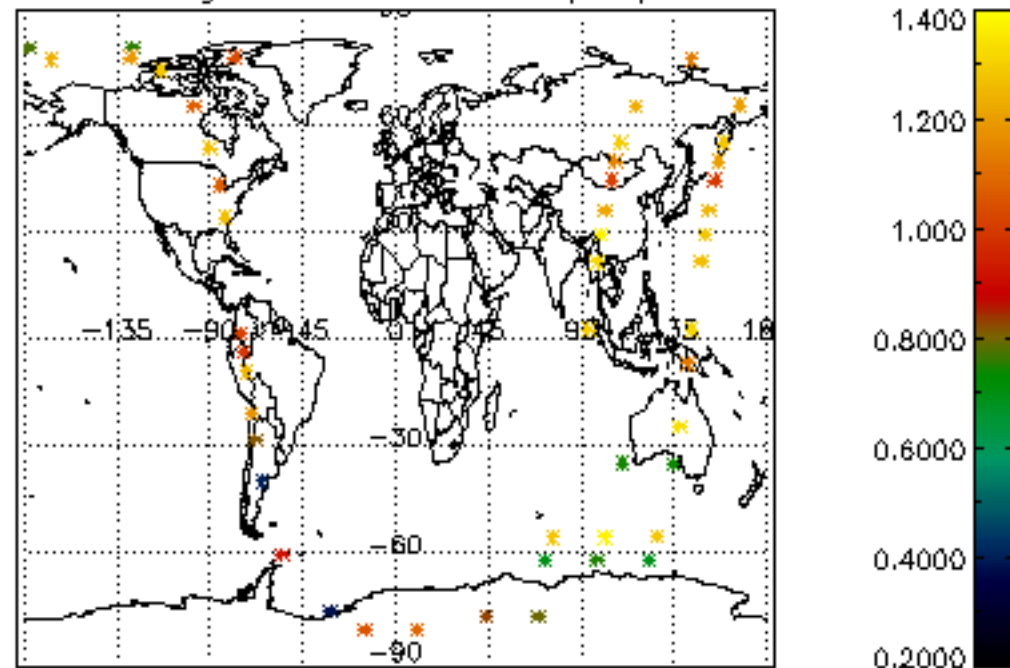




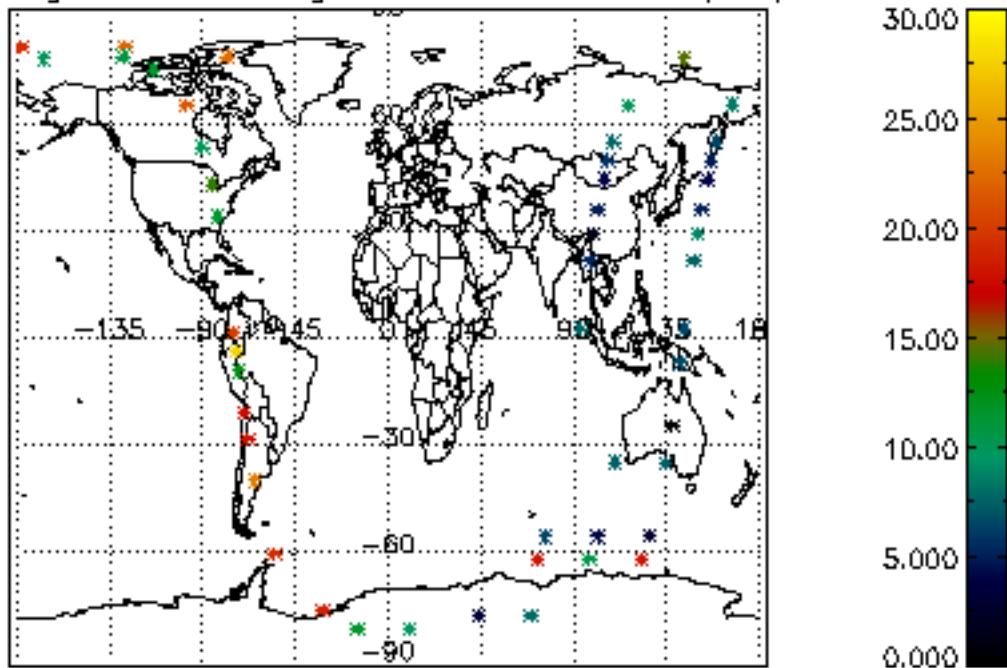
Percentage of cosmic ray hits per profile



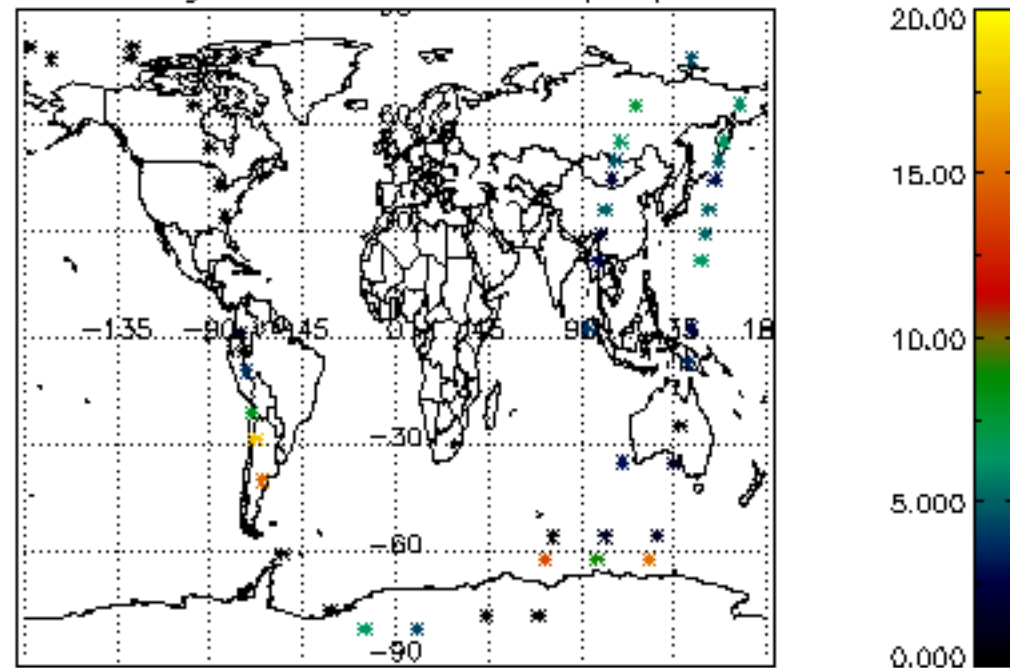
Percentage of datation errors per profile



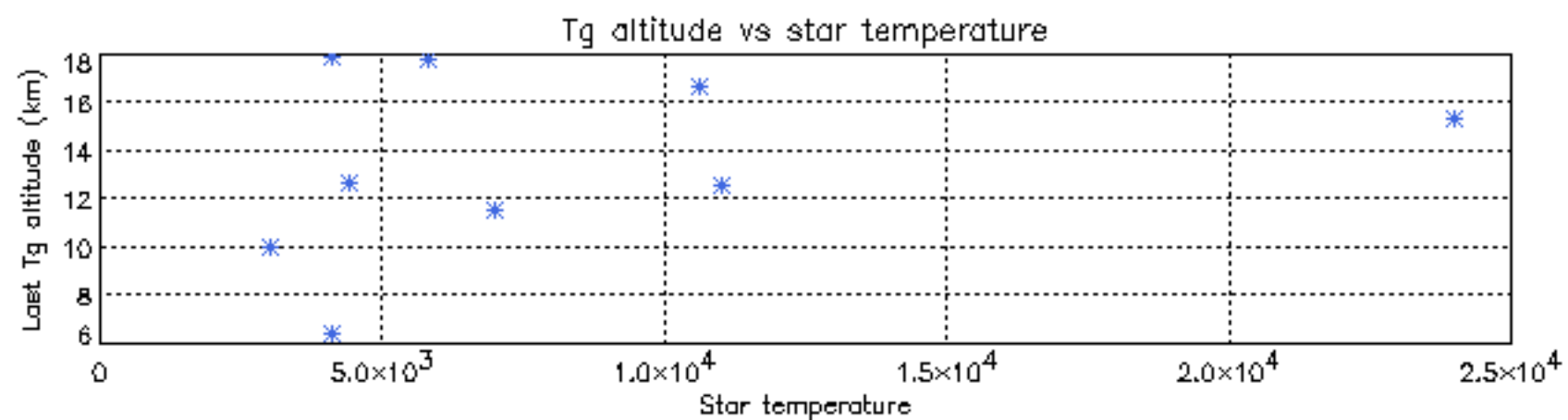
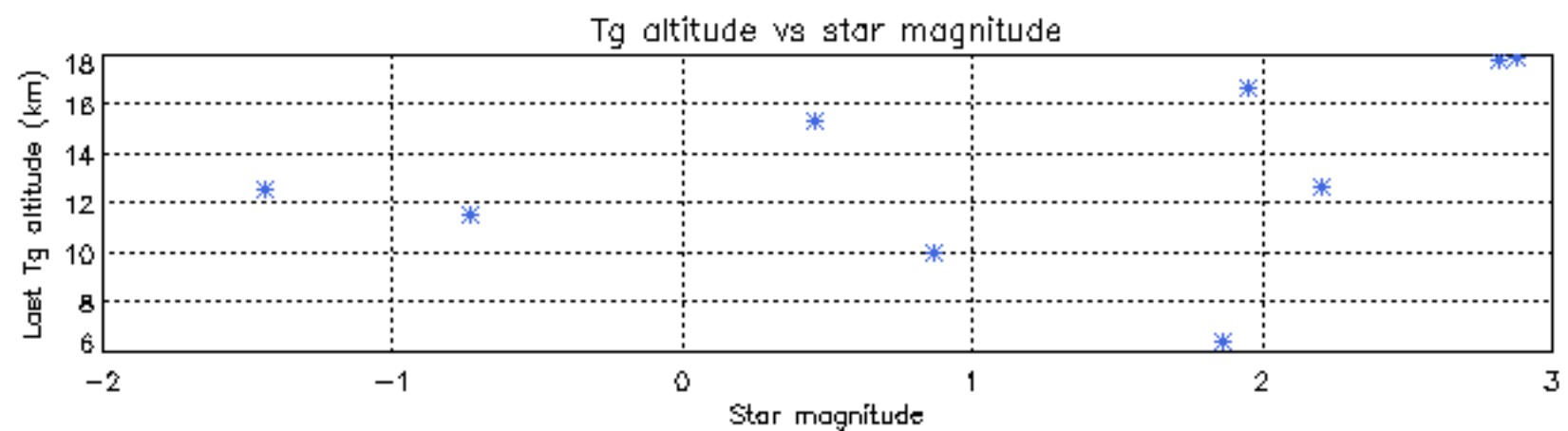
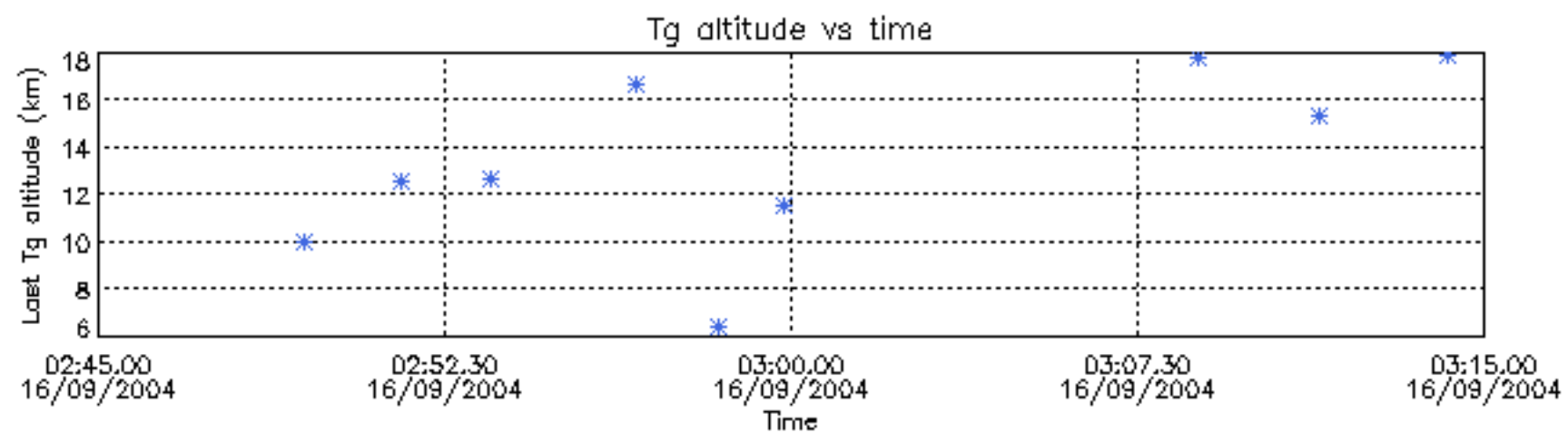
Percentage of star falling outside central band per profile



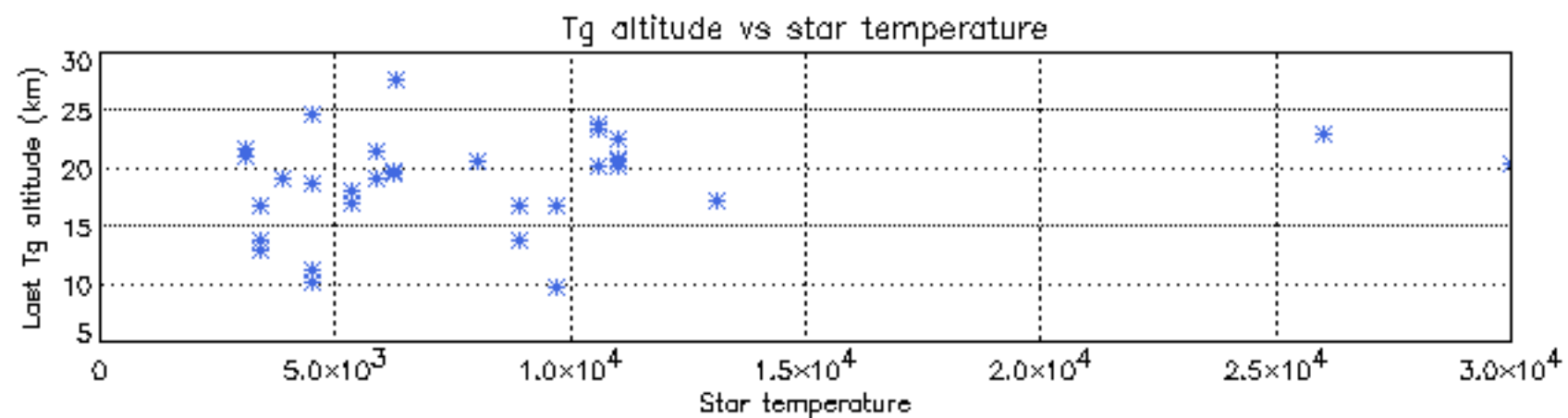
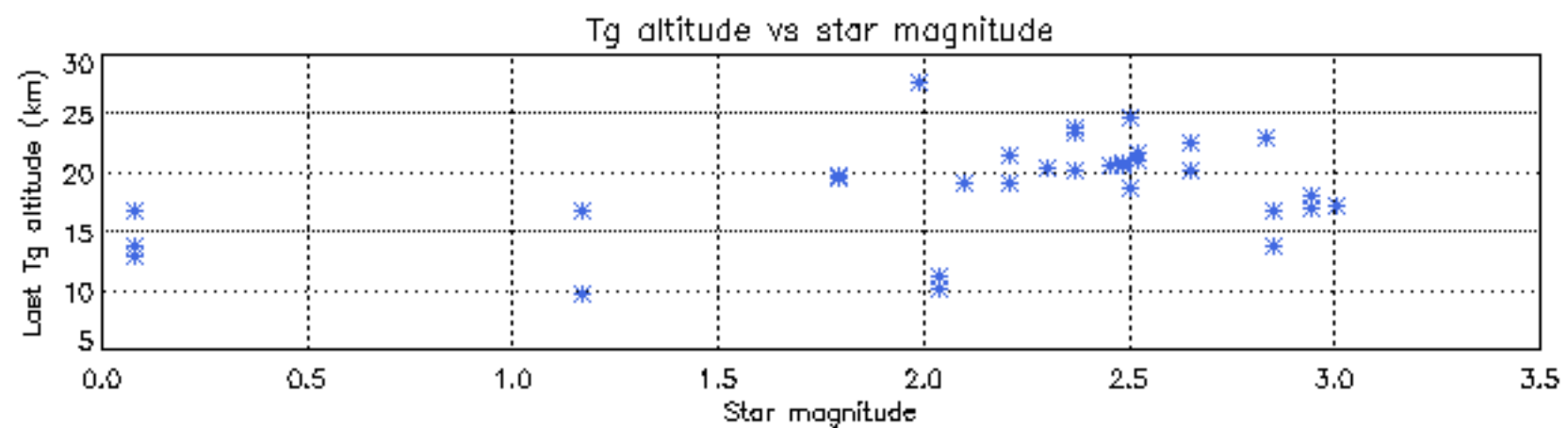
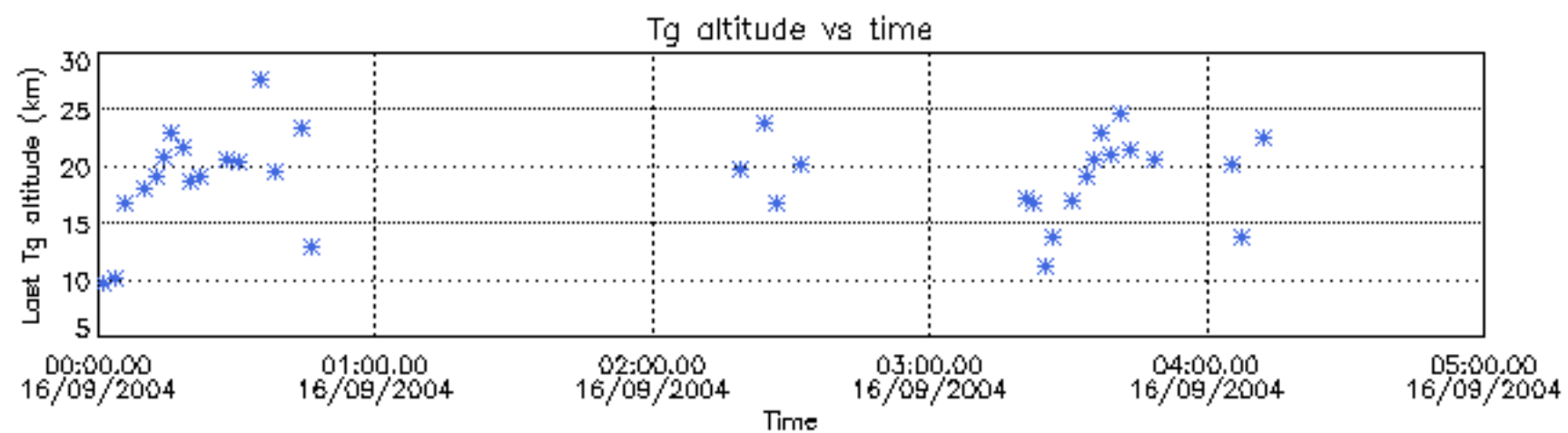
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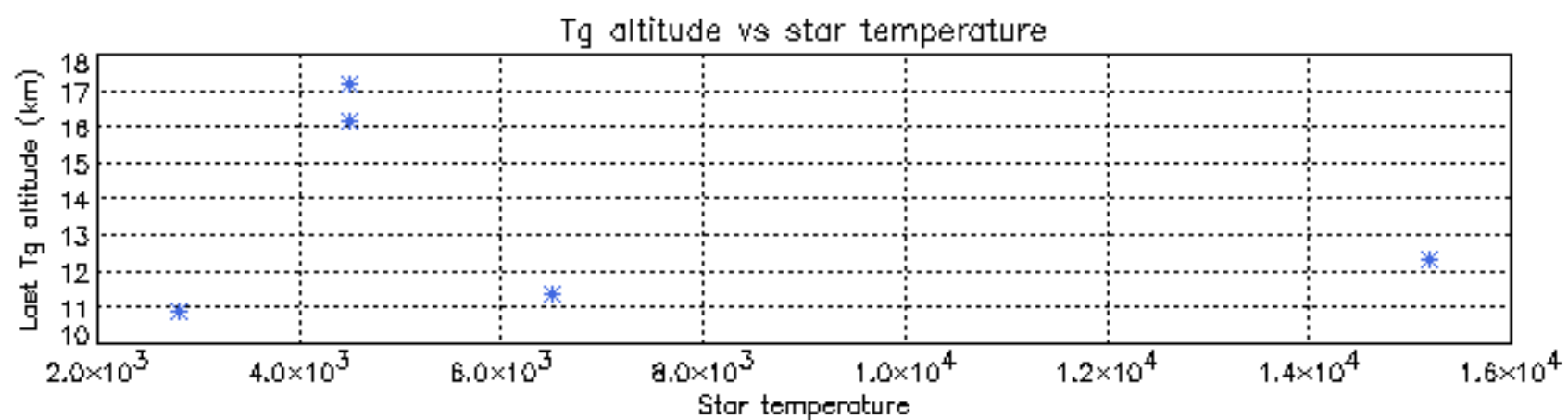
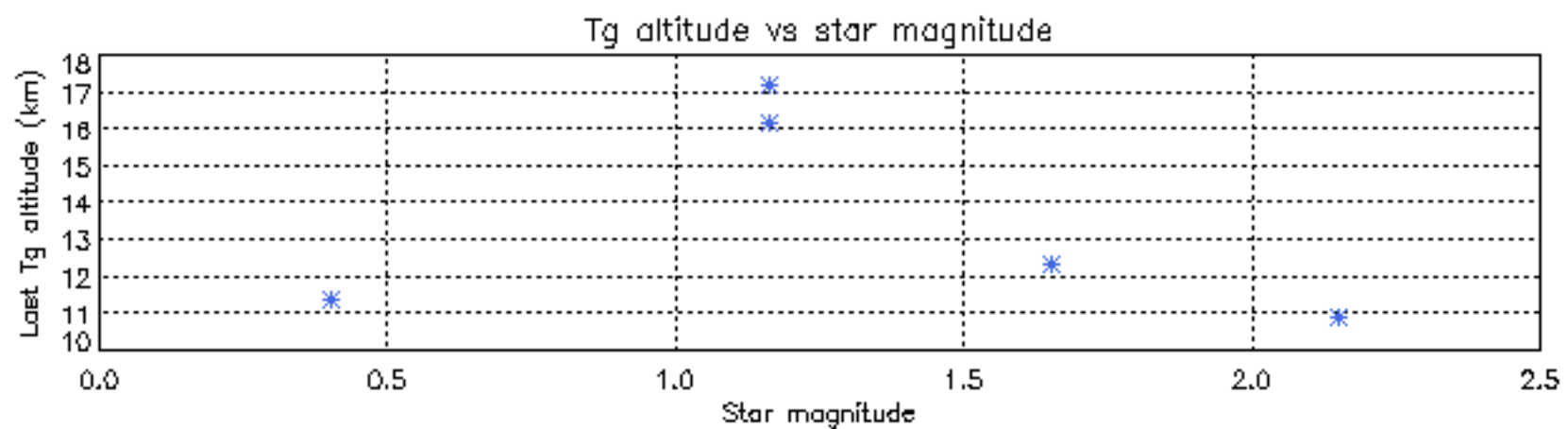
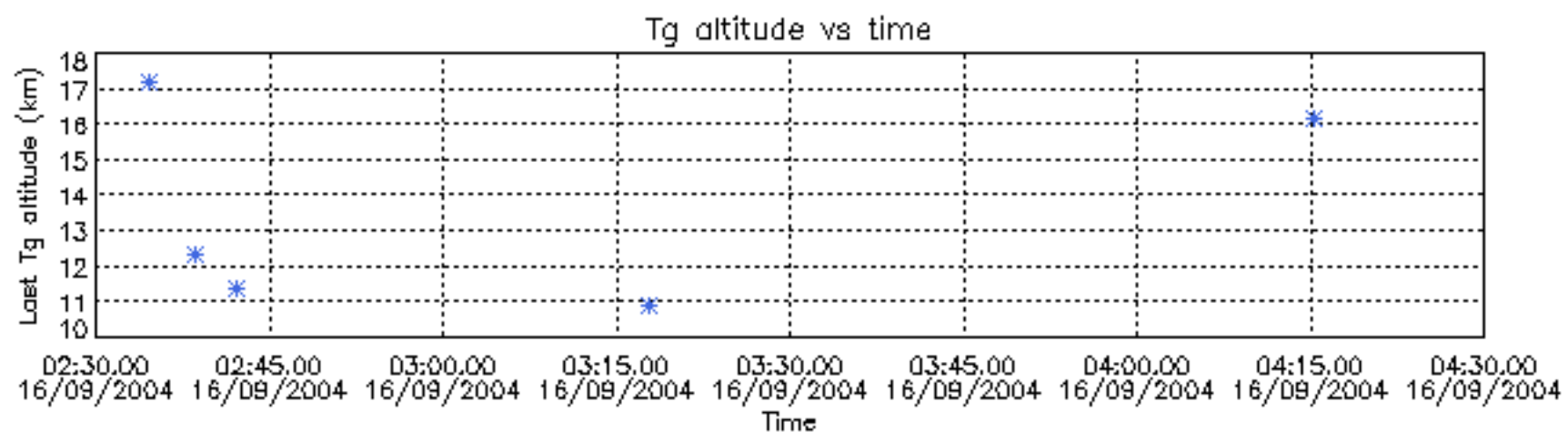
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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 22; 3072.8; 09-SEP-2004 00:48:45; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;13211
 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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26; 2238.9; 19-SEP-2004 07:02:50; Bright; 47.0; 140; 88Gam Peg ; 2.83; 26000;occ; 94; 0;13358
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2;	-4124.9;	19-SEP-2004	08:37:58;	Bright;	;	38.5;	162;	34Alp	Aqr	;	2.94;	5350;	occ;	77;	0;	13359
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
6;	-3496.6;	19-SEP-2004	08:48:26;	Bright;	;	39.5;	92;	53Eps	Cyg	;	2.50;	4500;	occ;	79;	0;	13359
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
11;	-2606.9;	19-SEP-2004	09:03:16;	Bright;	;	35.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	71;	0;	13359
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
17;	-1668.2;	19-SEP-2004	09:18:54;	Bright;	;	66.0;	107;	37The	Aur	;	2.65;	11000;	occ;	132;	0;	13359
18;	-1473.9;	19-SEP-2004	09:22:09;	Bright;	;	50.5;	17;	78Bet	Gem	;	1.16;	4500;	occ;	101;	0;	13359
19;	-1284.7;	19-SEP-2004	09:25:18;	Dark	;	156.5;	28;	12Bet	Tau	;	1.65;	15200;	occ;	313;	0;	13359
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21;	-561.8;	19-SEP-2004	09:37:21;	Dark	;	45.0;	132;	15Rho	Pup	;	2.80;	6900;	occ;	90;	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
27;	351.3;	19-SEP-2004	09:52:34;	Dark	;	230.0;	7;	19Bet	Ori	;	0.10;	14000;	occ;	460;	0;	13360
28;	661.8;	19-SEP-2004	09:57:44;	Dark	;	41.0;	143;	Alp	Hyi	;	2.86;	7200;	occ;	82;	0;	13360
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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
33;	1389.3;	19-SEP-2004	10:09:52;	Dark	;	44.5;	18;	24Alp	PsA	;	1.17;	9700;	occ;	89;	0;	13360
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
6;	-3496.0;	19-SEP-2004	12:09:38;	Bright;	;	37.5;	92;	53Eps	Cyg	;	2.50;	4500;	occ;	75;	0;	13361
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
28;	748.1;	19-SEP-2004	13:20:22;	Dark	;	55.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	110;	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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