

GOMOS Daily Report 24-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	25SEP2004 05:02:19
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START) (24SEP2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (25SEP2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	48
Nb of prods with errors	1

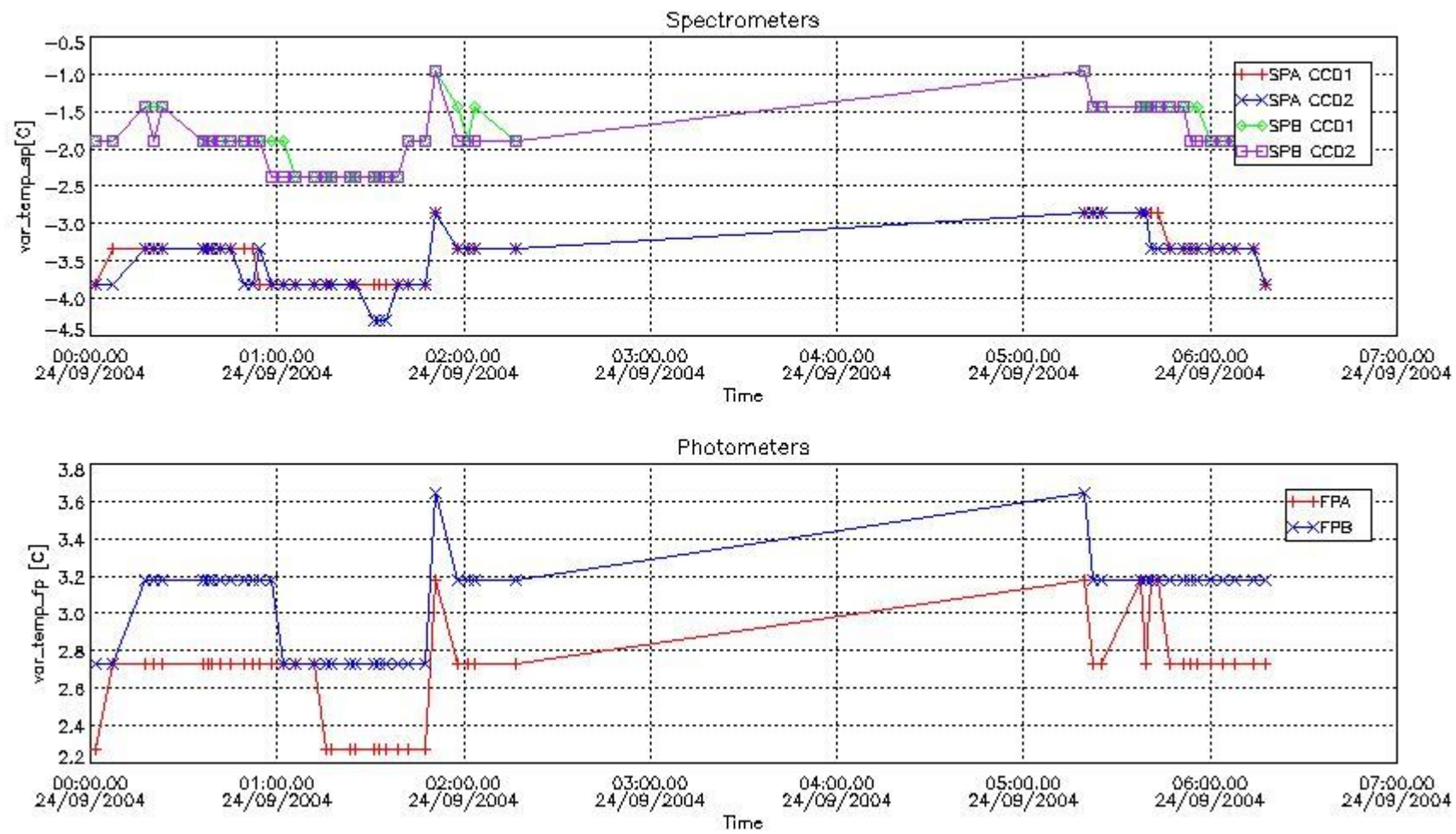
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040924_000133_000002552030_00345_13425_0023.N1	24-SEP-2004 00:01:33	Twilight	255.00	114	3Iot Aur	2.6930	4600.0	510	13425	No
GOM_TRA_1PNPDE20040924_000652_000001082030_00345_13425_0024.N1	24-SEP-2004 00:06:52	Twilight	108.00	151	13Mu Gem	2.8900	3000.0	216	13425	No
GOM_TRA_1PNPDE20040924_001731_000000452030_00345_13425_0000.N1	24-SEP-2004 00:17:31	Dark	45.000	132	15Rho Pup	2.8030	6900.0	90	13425	No
GOM_TRA_1PNPDE20040924_002033_000000782030_00345_13425_0001.N1	24-SEP-2004 00:20:33	Dark	78.000	1	9Alp CMa	-1.4400	11000.	156	13425	No
GOM_TRA_1PNPDE20040924_002303_000000422030_00345_13425_0002.N1	24-SEP-2004 00:23:03	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	13425	No
GOM_TRA_1PNPDE20040924_003601_000000392030_00346_13426_0003.N1	24-SEP-2004 00:36:01	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	13426	No
GOM_TRA_1PNPDE20040924_003743_000000422030_00346_13426_0004.N1	24-SEP-2004 00:37:43	Dark	42.000	143	Alp Hyi	2.8570	7200.0	84	13426	No
GOM_TRA_1PNPDE20040924_003911_000000432030_00346_13426_0005.N1	24-SEP-2004 00:39:11	Dark	42.500	9	Alp Eri	0.45300	24000.	85	13426	No
GOM_TRA_1PNPDE20040924_004129_000000392030_00346_13426_0006.N1	24-SEP-2004 00:41:29	Dark	39.000	148	Alp Tuc	2.8780	4100.0	78	13426	No
GOM_TRA_1PNPDE20040924_004516_000000432030_00346_13426_0007.N1	24-SEP-2004 00:45:16	Twilight	42.500	31	Alp Gru	1.7340	15200.	85	13426	No
GOM_TRA_1PNPDE20040924_004934_000000452030_00346_13426_0008.N1	24-SEP-2004 00:49:34	Bright	44.500	18	24Alp PsA	1.1660	9700.0	89	13426	No
GOM_TRA_1PNPDE20040924_005155_000000502030_00346_13426_0009.N1	24-SEP-2004 00:51:55	Bright	50.000	52	16Bet Cet	2.0370	4500.0	100	13426	No
GOM_TRA_1PNPDE20040924_005405_000000422030_00346_13426_0010.N1	24-SEP-2004 00:54:05	Bright	42.000	142	49Del Cap	2.8500	8900.0	84	13426	No
GOM_TRA_1PNPDE20040924_005813_000000412030_00346_13426_0011.N1	24-SEP-2004 00:58:13	Bright	41.000	162	34Alp Aqr	2.9440	5350.0	82	13426	No
GOM_TRA_1PNPDE20040924_010217_000000402030_00346_13426_0012.N1	24-SEP-2004 01:02:17	Bright	40.000	90	54Alp Peg	2.4870	11000.	80	13426	No
GOM_TRA_1PNPDE20040924_010601_000000432030_00346_13426_0013.N1	24-SEP-2004 01:06:01	Bright	43.000	93	53Bet Peg	2.5200	3100.0	86	13426	No
GOM_TRA_1PNPDE20040924_011158_000000402030_00346_13426_0014.N1	24-SEP-2004 01:11:58	Bright	39.500	19	50Alp Cyg	1.2460	10500.	79	13426	No
GOM_TRA_1PNPDE20040924_011553_000000372030_00346_13426_0015.N1	24-SEP-2004 01:15:53	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	13426	No
GOM_TRA_1PNPDE20040924_011724_000000422030_00346_13426_0016.N1	24-SEP-2004 01:17:24	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	13426	No
GOM_TRA_1PNPDE20040924_012320_000000402030_00346_13426_0017.N1	24-SEP-2004 01:23:20	Bright	39.500	49	1Alp UMi	1.9900	6300.0	79	13426	No
GOM_TRA_1PNPDE20040924_012455_000000412030_00346_13426_0018.N1	24-SEP-2004 01:24:55	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	13426	No
GOM_TRA_1PNPDE20040924_013103_000000392030_00346_13426_0019.N1	24-SEP-2004 01:31:03	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	13426	No
GOM_TRA_1PNPDE20040924_013232_000000442030_00346_13426_0020.N1	24-SEP-2004 01:32:32	Bright	43.500	82	48Bet UMa	2.3650	10600.	87	13426	No
GOM_TRA_1PNPDE20040924_013451_000000602030_00346_13426_0021.N1	24-SEP-2004 01:34:51	Bright	60.000	42	34Bet Aur	1.9000	10200.	120	13426	No
GOM_TRA_1PNPDE20040924_013850_000000772030_00346_13426_0022.N1	24-SEP-2004 01:38:50	Bright	76.500	107	37The Aur	2.6490	11000.	153	13426	No
GOM_TRA_1PNPDE20040924_014209_000002552030_00346_13426_0023.N1	24-SEP-2004 01:42:09	Twilight	255.00	114	3Iot Aur	2.6930	4600.0	510	13426	No
GOM_TRA_1PNPDE20040924_014729_000001082030_00346_13426_0024.N1	24-SEP-2004 01:47:29	Twilight	107.50	151	13Mu Gem	2.8900	3000.0	215	13426	No
GOM_TRA_1PNPDE20040924_015050_000000642030_00346_13426_0000.N1	24-SEP-2004 01:50:50	Twilight	63.500	8	10Alp CMi	0.40000	6500.0	127	13426	Yes
GOM_TRA_1PNPDE20040924_015807_000000452030_00346_13426_0001.N1	24-SEP-2004 01:58:07	Dark	45.000	132	15Rho Pup	2.8030	6900.0	90	13426	No
GOM_TRA_1PNPDE20040924_020108_000000762030_00346_13426_0002.N1	24-SEP-2004 02:01:08	Dark	75.500	1	9Alp CMa	-1.4400	11000.	151	13426	No
GOM_TRA_1PNPDE20040924_020339_000000422030_00346_13426_0003.N1	24-SEP-2004 02:03:39	Dark	41.500	34	Gam2Vel	1.7930	23000.	83	13426	No
GOM_TRA_1PNPDE20040924_021638_000000402030_00347_13427_0004.N1	24-SEP-2004 02:16:38	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	13427	No
GOM_TRA_1PNPDE20040924_051921_000000472030_00348_13428_0000.N1	24-SEP-2004 05:19:21	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	13428	No
GOM_TRA_1PNPDE20040924_052225_000000852030_00348_13428_0001.N1	24-SEP-2004 05:22:25	Dark	84.500	1	9Alp CMa	-1.4400	11000.	169	13428	No
GOM_TRA_1PNPDE20040924_052453_000000432030_00348_13428_0002.N1	24-SEP-2004 05:24:53	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	13428	No
GOM_TRA_1PNPDE20040924_053750_000000392030_00349_13429_0003.N1	24-SEP-2004 05:37:50	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	13429	No
GOM_TRA_1PNPDE20040924_053933_000000412030_00349_13429_0004.N1	24-SEP-2004 05:39:33	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	13429	No
GOM_TRA_1PNPDE20040924_054100_000000422030_00349_13429_0005.N1	24-SEP-2004 05:41:00	Dark	42.000	9	Alp Eri	0.45300	24000.	84	13429	No
GOM_TRA_1PNPDE20040924_054317_000000382030_00349_13429_0006.N1	24-SEP-2004 05:43:17	Dark	38.000	148	Alp Tuc	2.8780	4100.0	76	13429	No
GOM_TRA_1PNPDE20040924_054704_000000432030_00349_13429_0007.N1	24-SEP-2004 05:47:04	Twilight	43.000	31	Alp Gru	1.7340	15200.	86	13429	No
GOM_TRA_1PNPDE20040924_055124_000000472030_00349_13429_0008.N1	24-SEP-2004 05:51:24	Bright	46.500	18	24Alp PsA	1.1660	9700.0	93	13429	No
GOM_TRA_1PNPDE20040924_055343_000000572030_00349_13429_0009.N1	24-SEP-2004 05:53:43	Bright	56.500	52	16Bet Cet	2.0370	4500.0	113	13429	No
GOM_TRA_1PNPDE20040924_055554_000000432030_00349_13429_0010.N1	24-SEP-2004 05:55:54	Bright	42.500	142	49Del Cap	2.8500	8900.0	85	13429	No
GOM_TRA_1PNPDE20040924_060003_000000402030_00349_13429_0011.N1	24-SEP-2004 06:00:03	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	13429	No
GOM_TRA_1PNPDE20040924_060406_000000392030_00349_13429_0012.N1	24-SEP-2004 06:04:06	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	13429	No
GOM_TRA_1PNPDE20040924_060750_000000412030_00349_13429_0013.N1	24-SEP-2004 06:07:50	Bright	41.000	93	53Bet Peg	2.5200	3100.0	82	13429	No
GOM_TRA_1PNPDE20040924_061347_000000402030_00349_13429_0014.N1	24-SEP-2004 06:13:47	Bright	39.500	19	50Alp Cyg	1.2460	10500.	79	13429	No
GOM_TRA_1PNPDE20040924_061743_000000382030_00349_13429_0015.N1	24-SEP-2004 06:17:43	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	13429	No

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



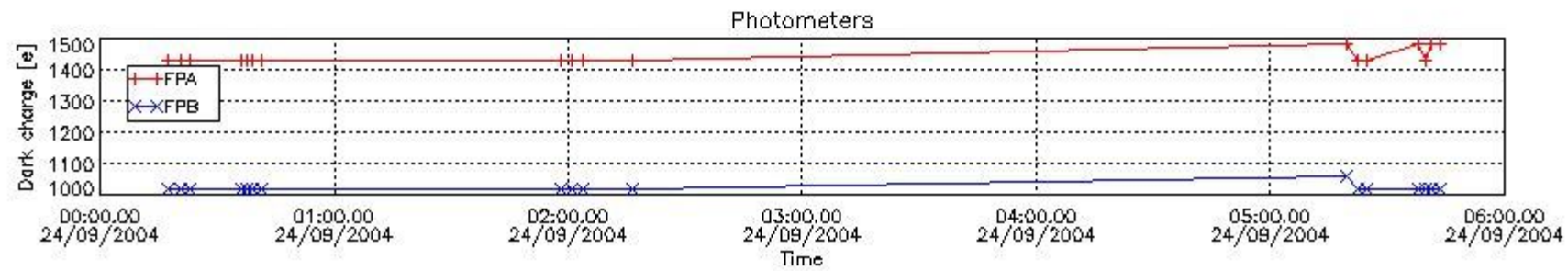
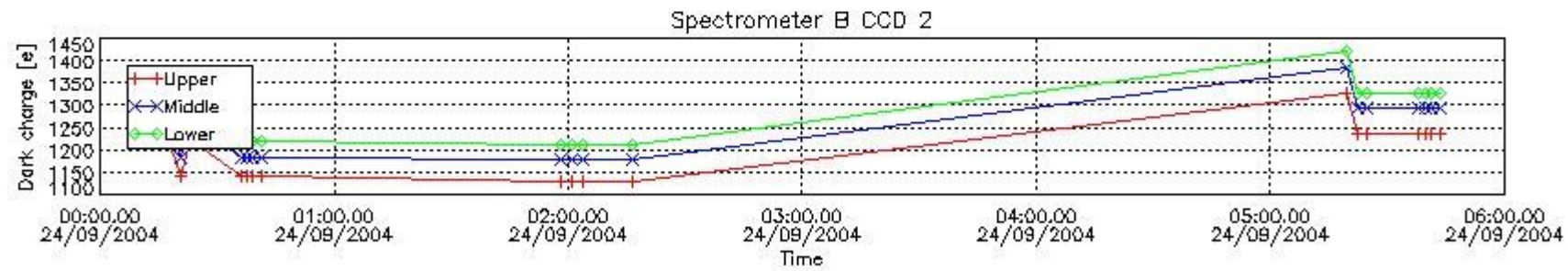
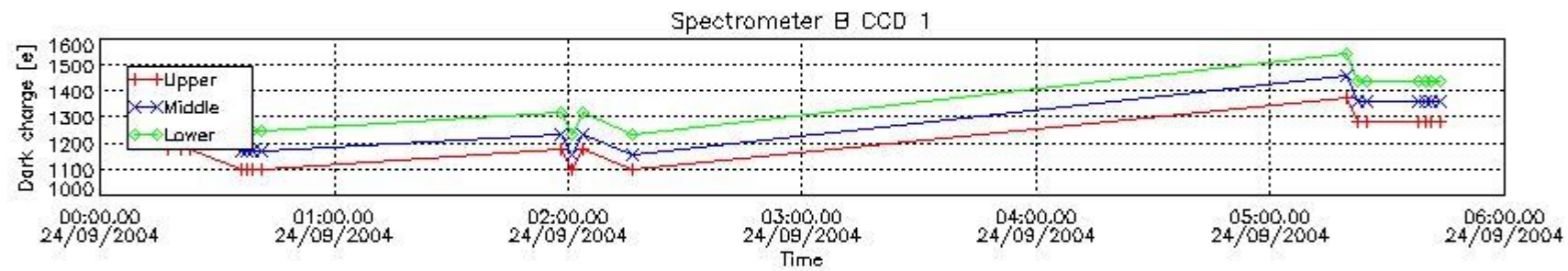
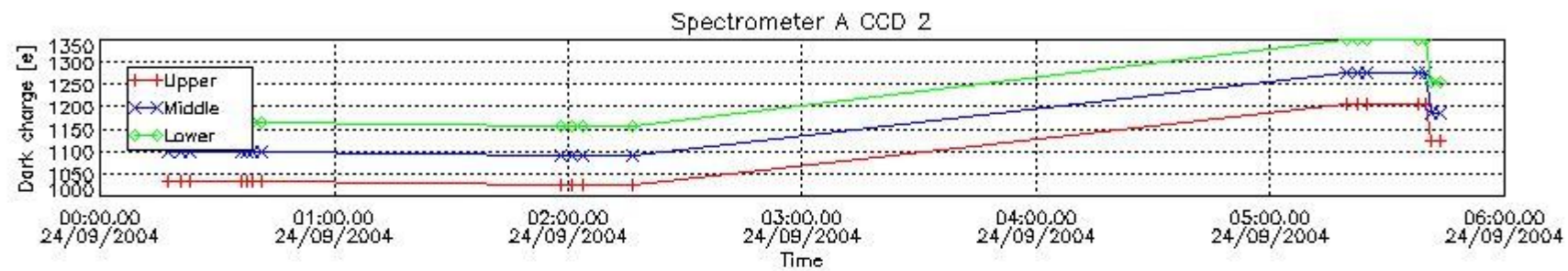
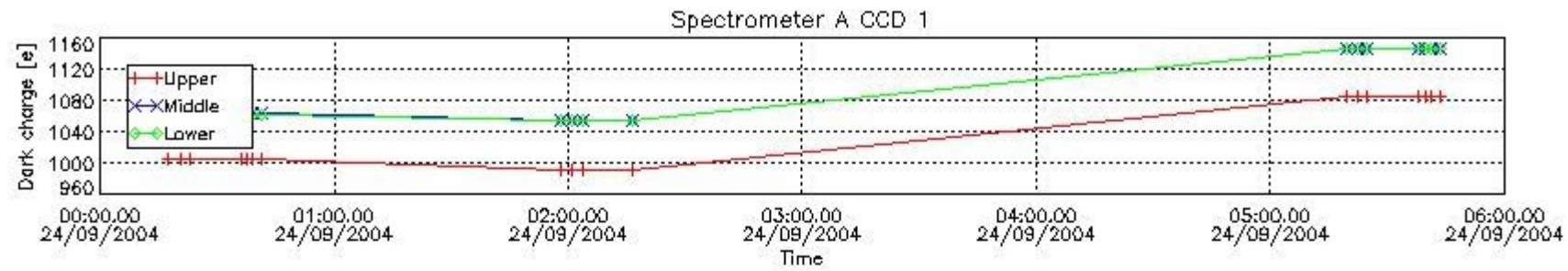
4. Overview of dark signal processing per product

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



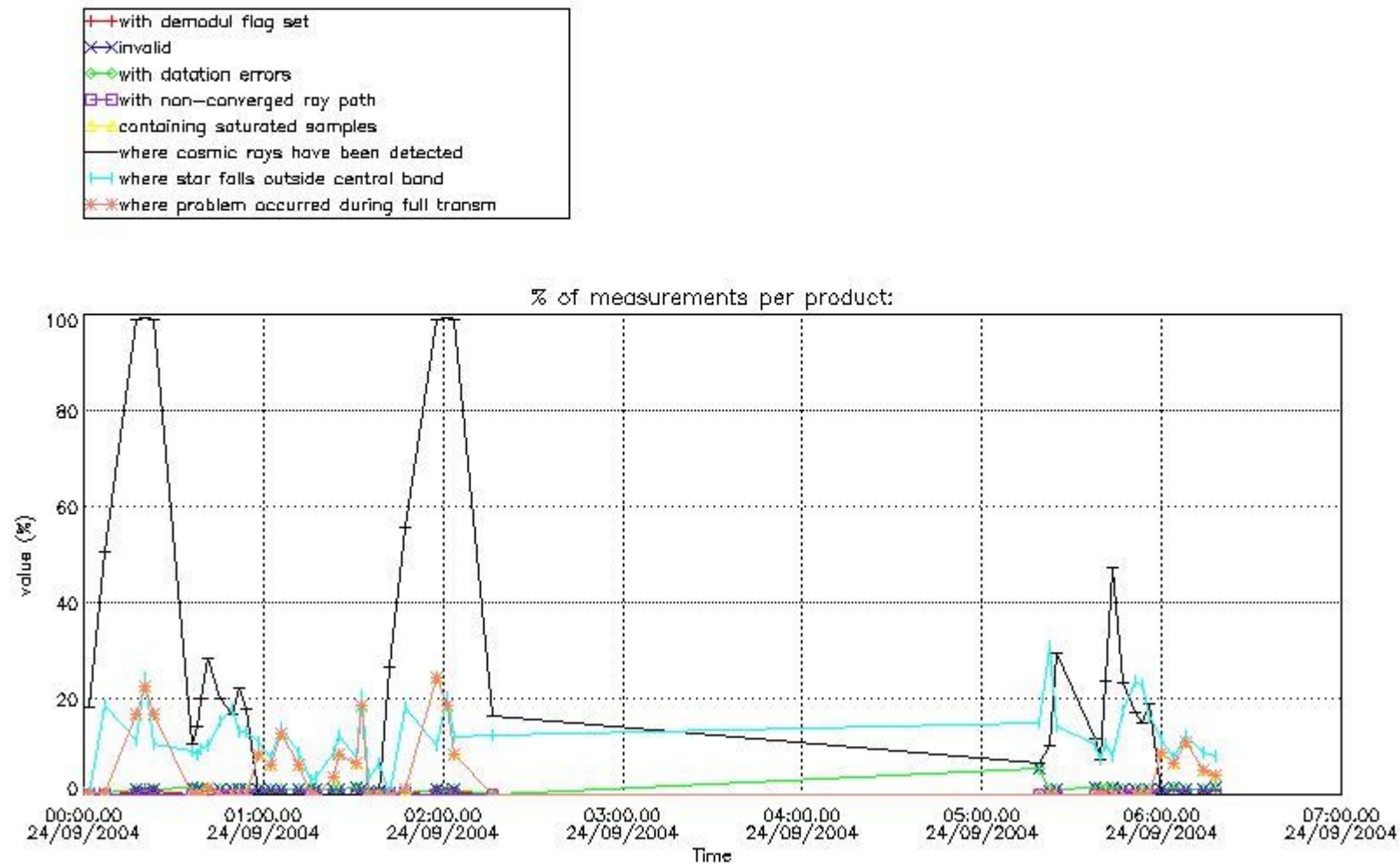
5. Demodulation flag and quality information monitoring

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.

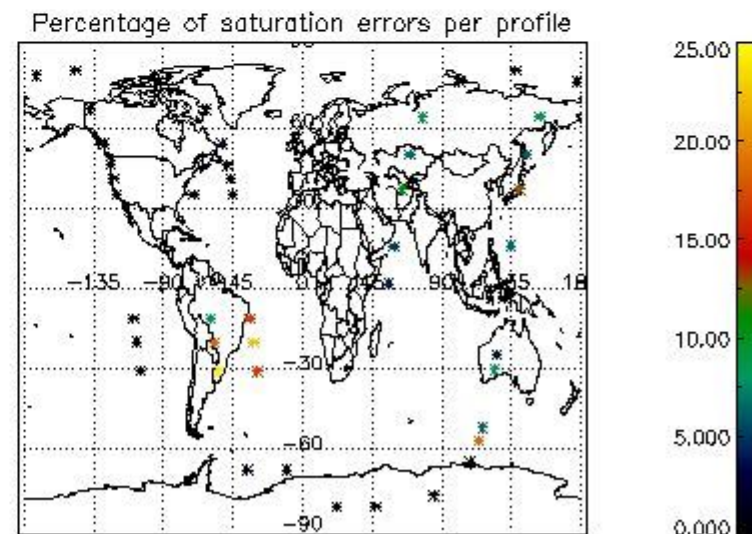
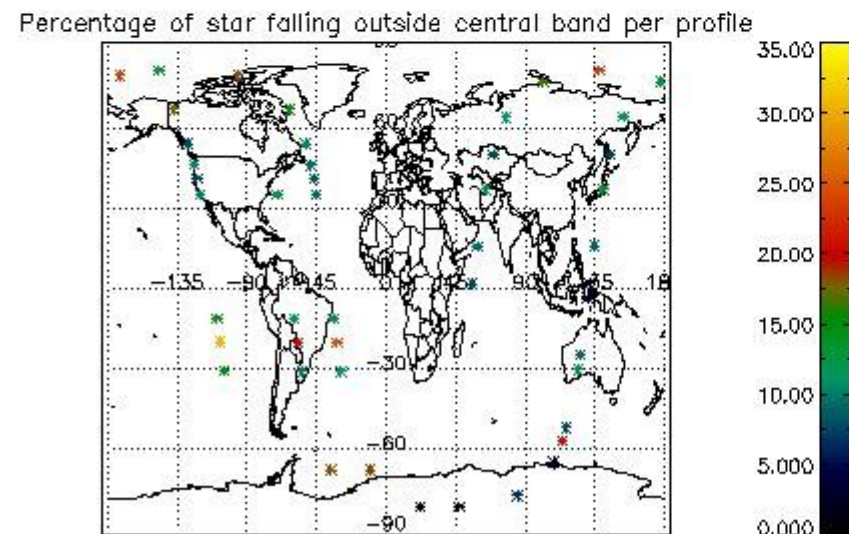
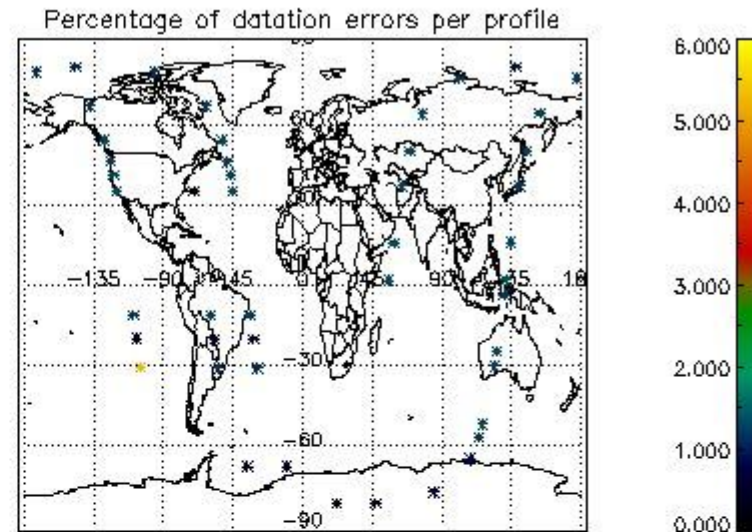
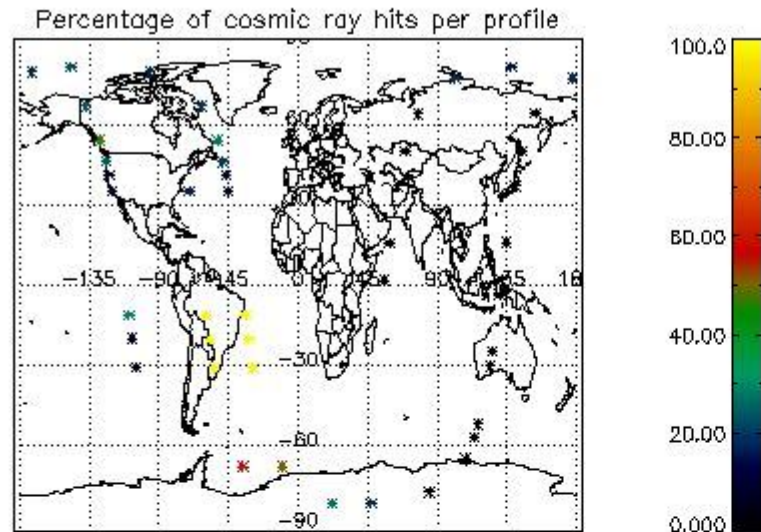
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	17.0213 %
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)



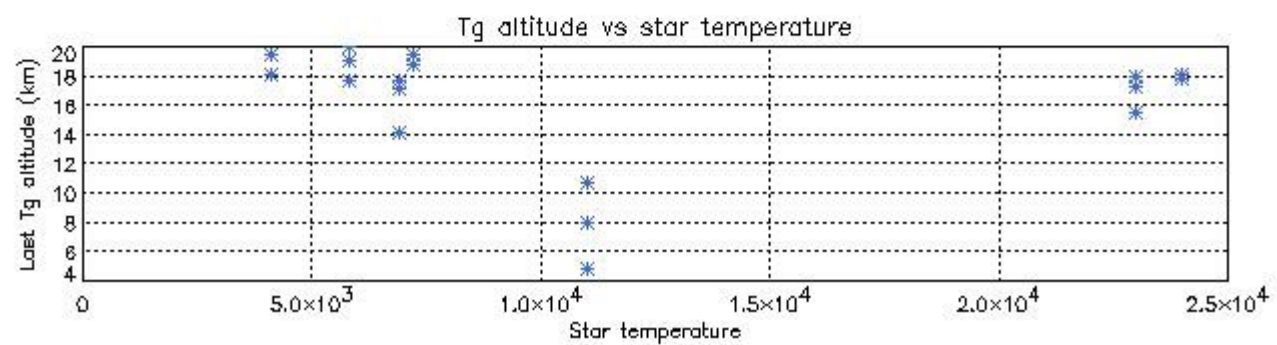
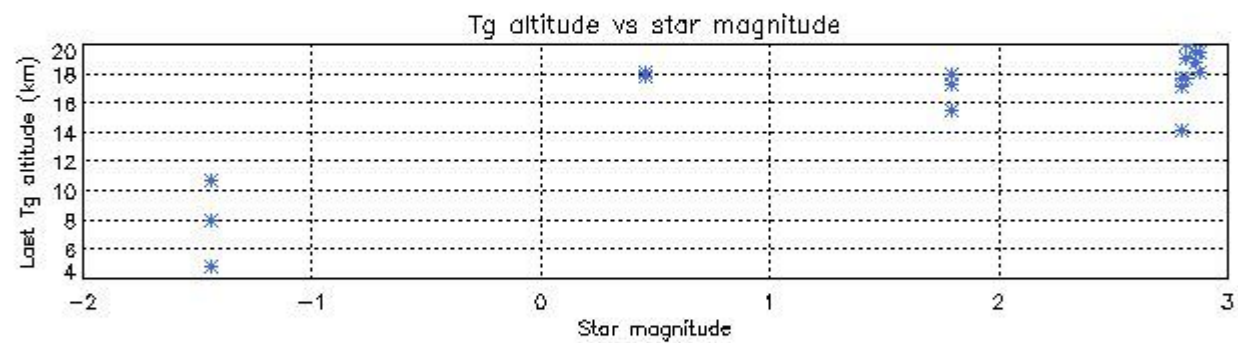
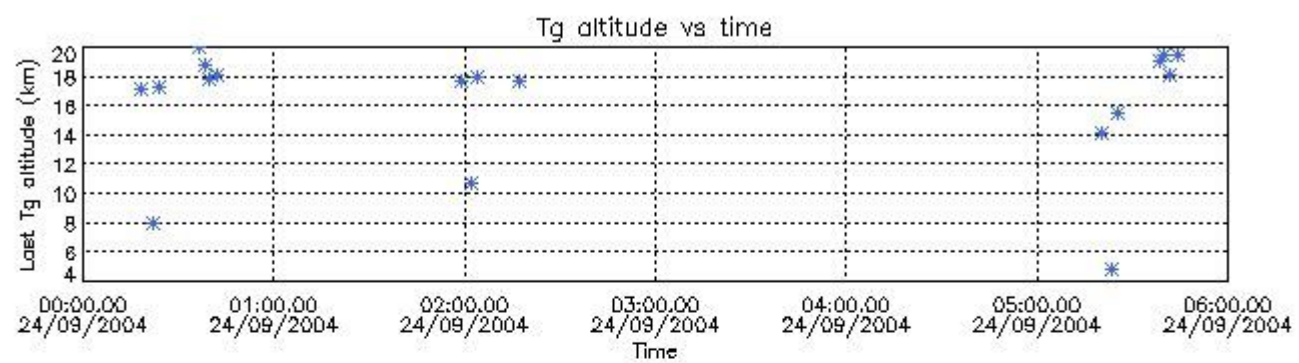
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.192	17.076	24.604
St. deviation:	4.1979	4.0014	17.633
Maximum:	19.970	24.769	47.835
Minimum:	4.8627	9.3363	12.348
Number of data:	18.000	23.000	6.0000

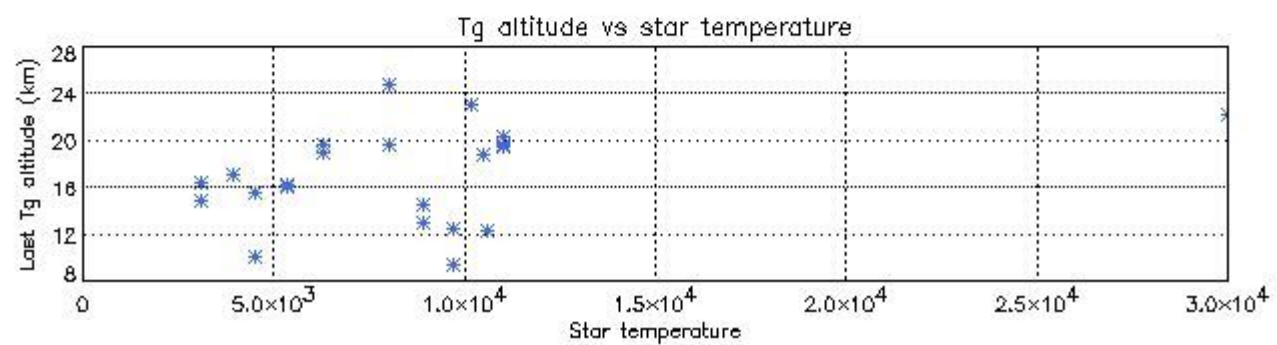
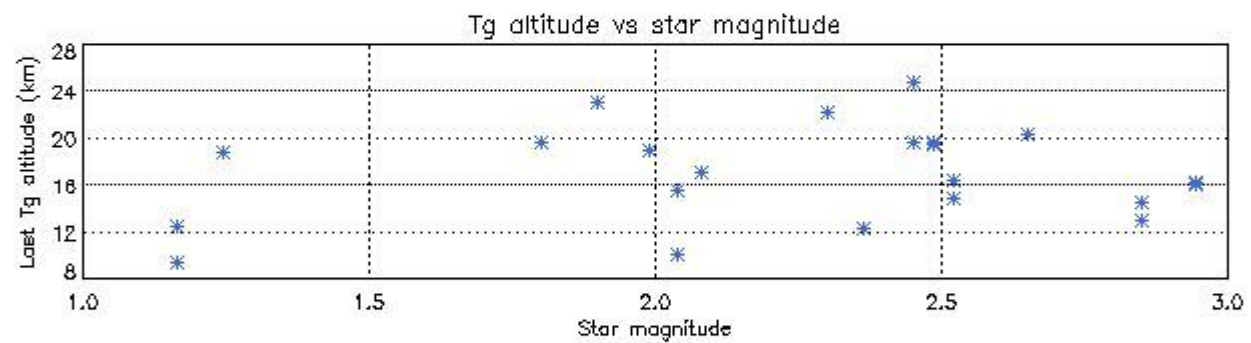
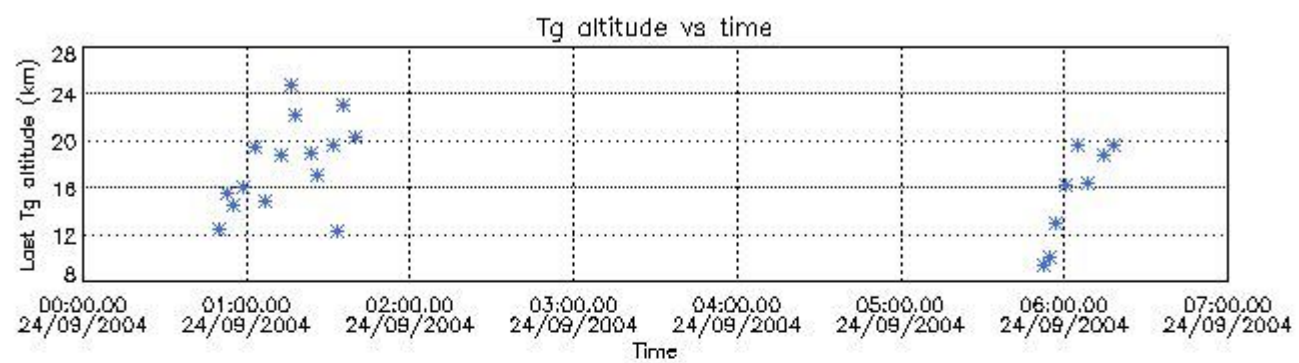
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



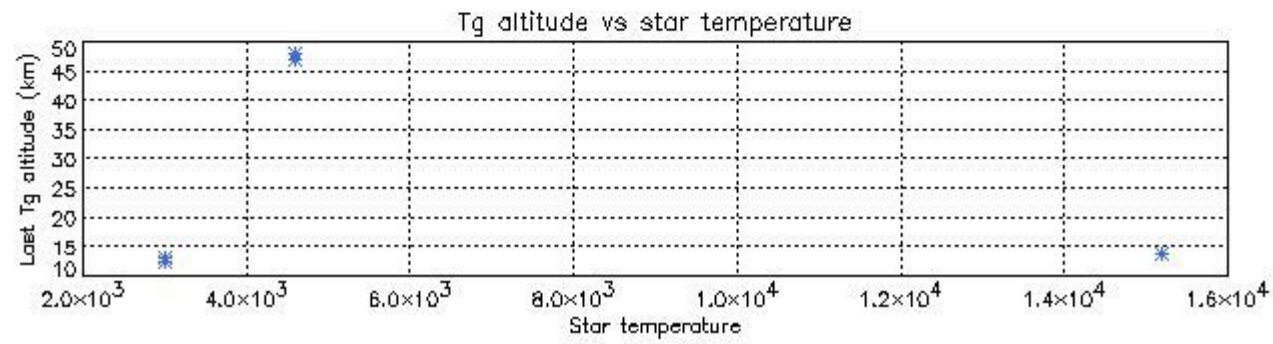
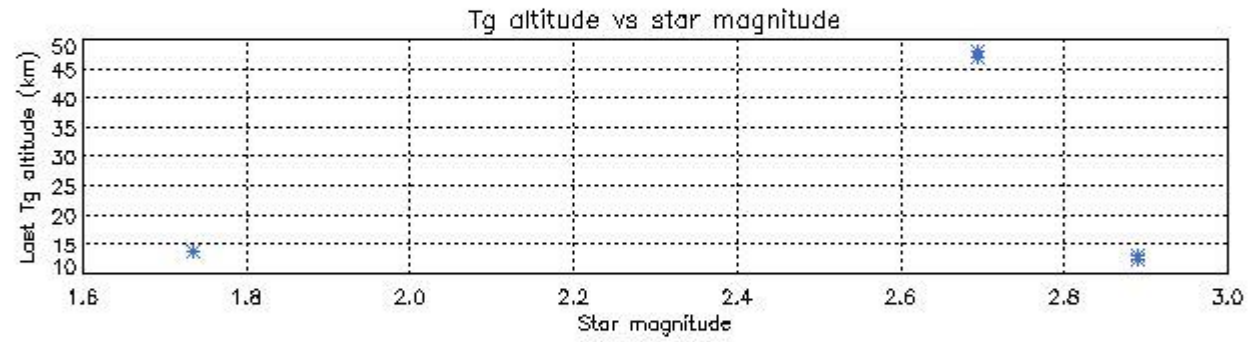
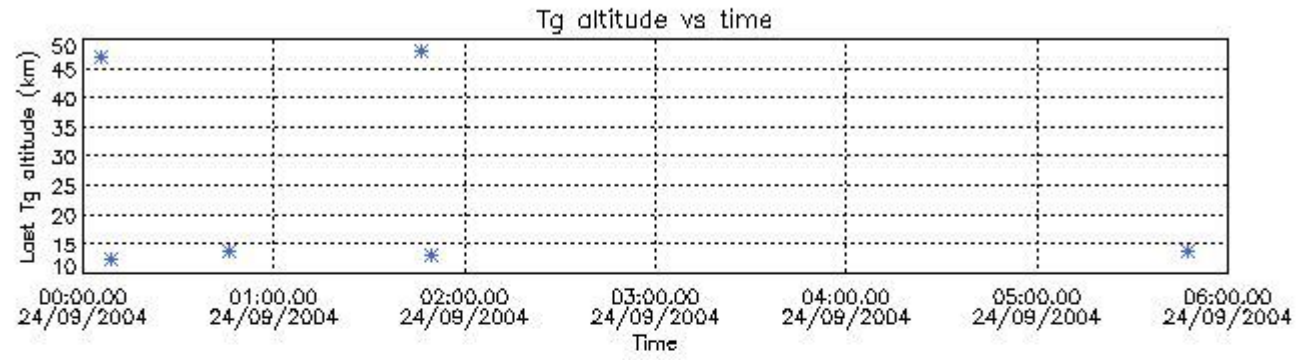
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

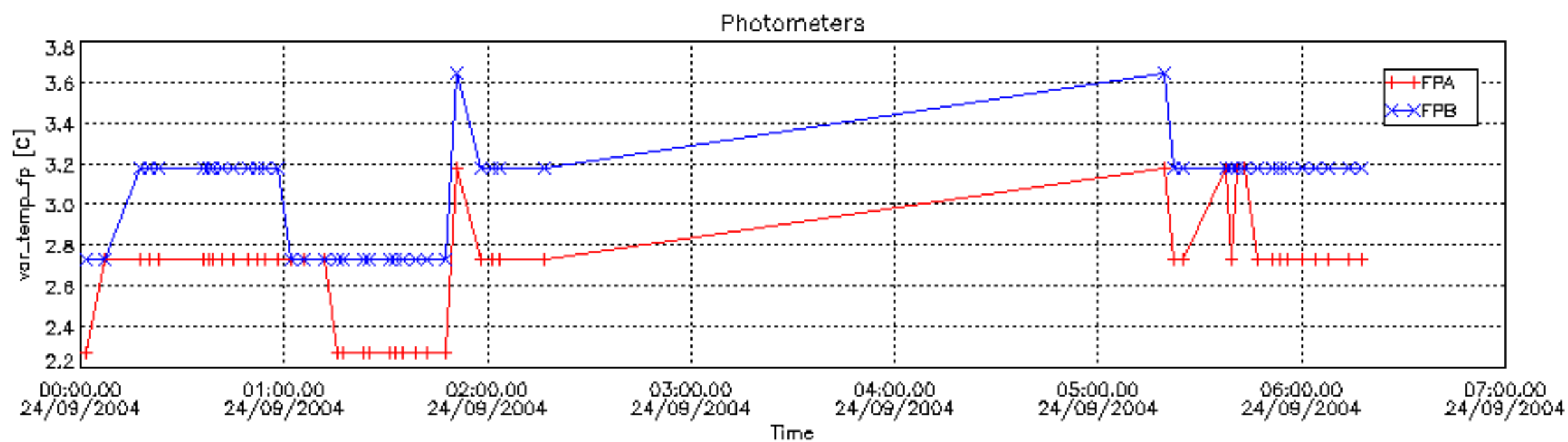
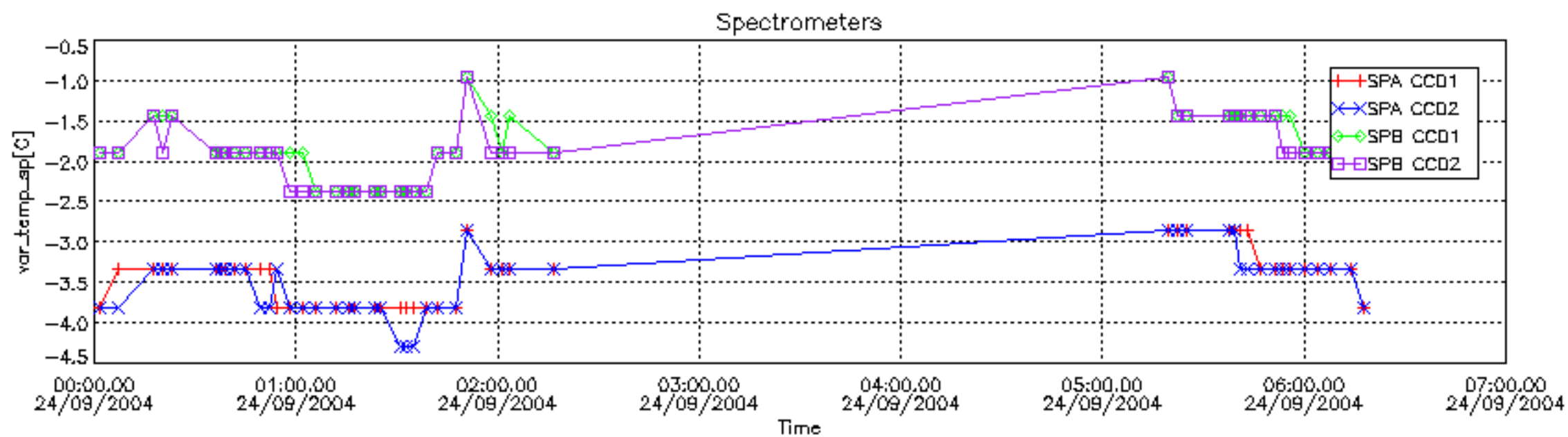
Tangent altitude at which the star is lost

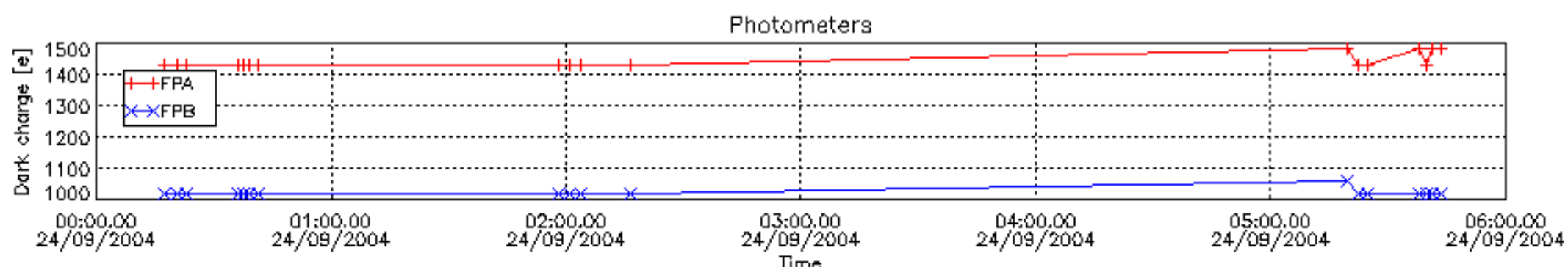
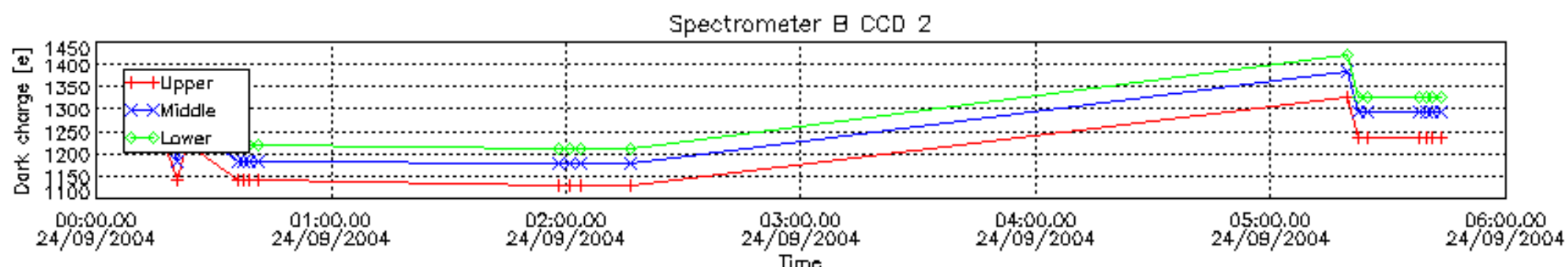
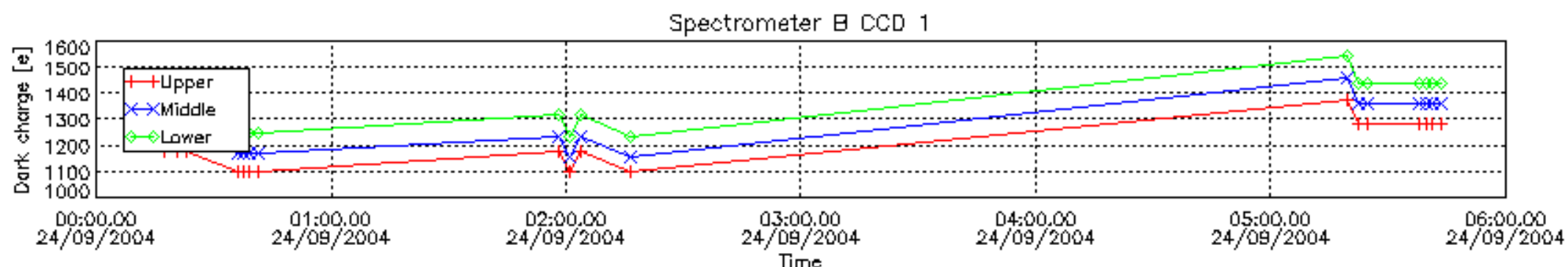
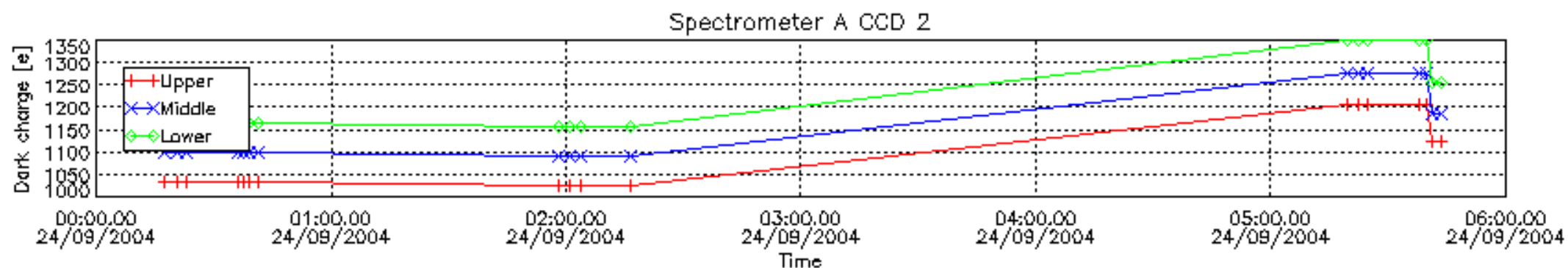
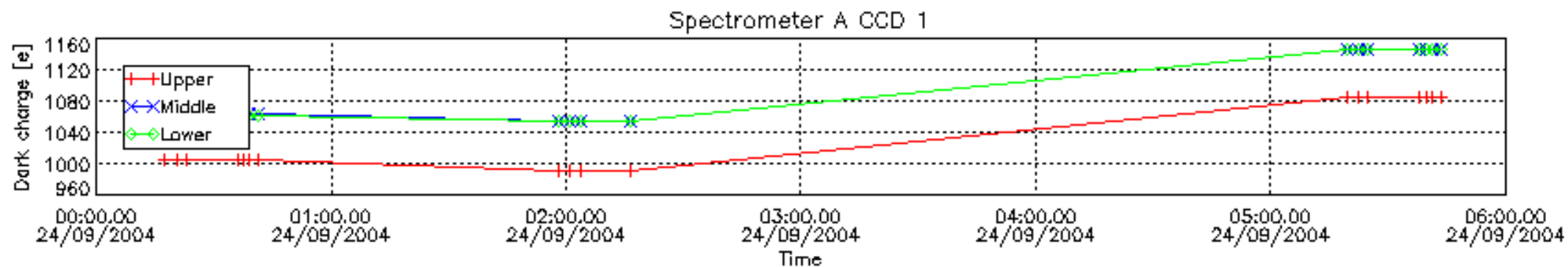


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

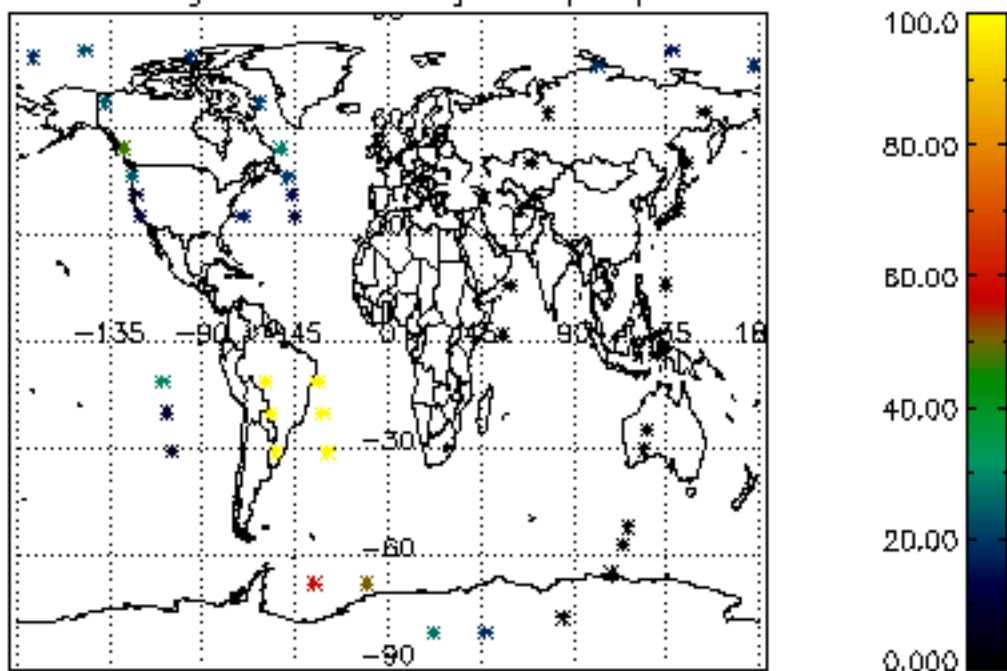
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.0	1447.0	1460.7	1447.2
St. deviation:	5.6869	6.2213	6.0451	6.7513
Maximum:	1797.0	1640.0	1498.0	1491.0
Minimum:	1442.0	1434.0	1435.0	1414.0
Number of data:	22200.	22200.	25500.	25500.

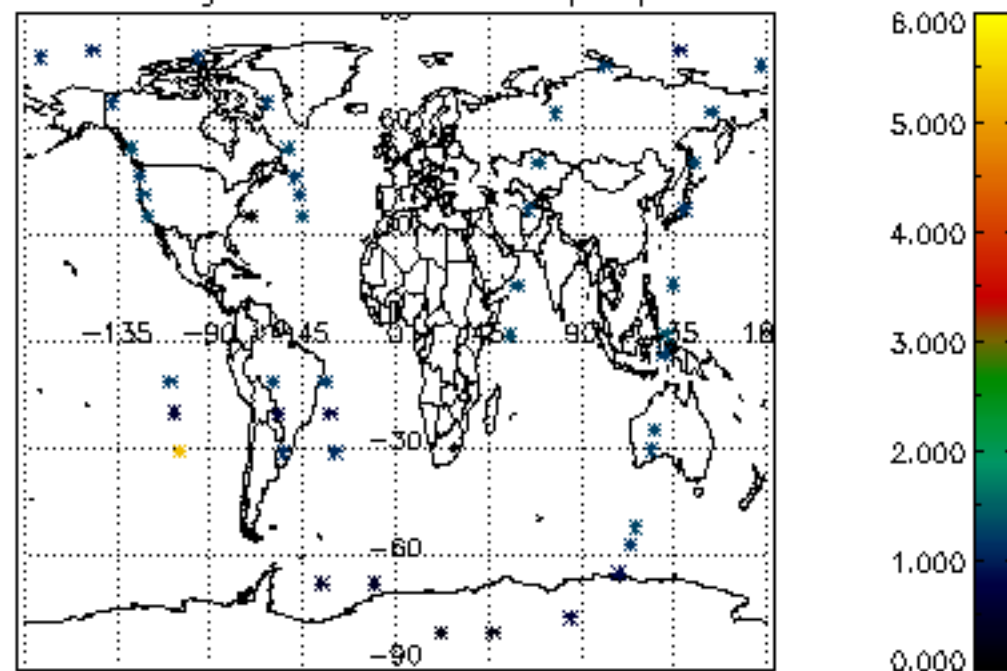




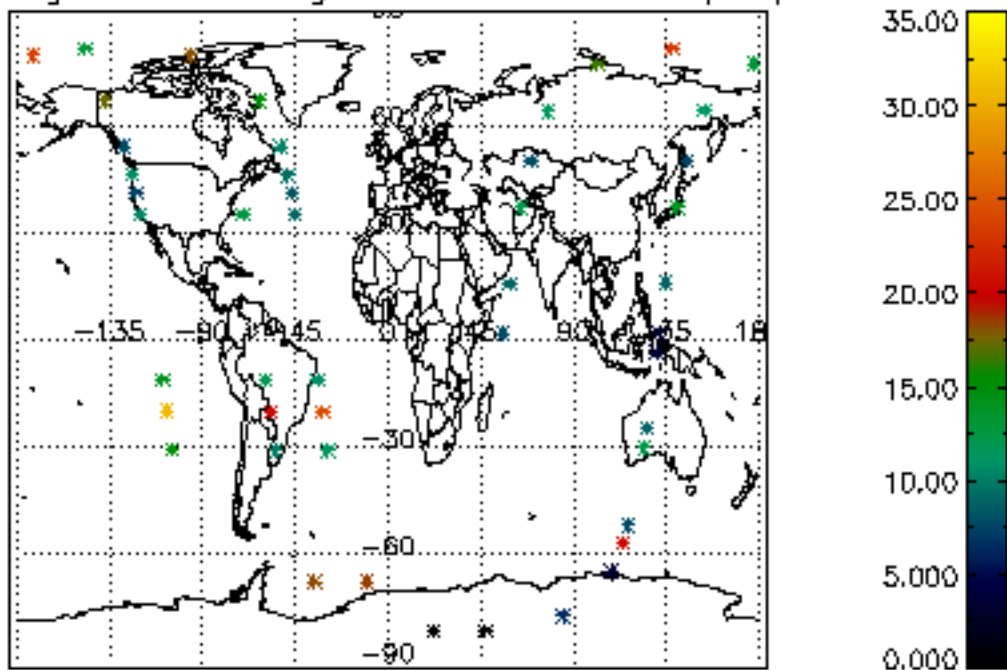
Percentage of cosmic ray hits per profile



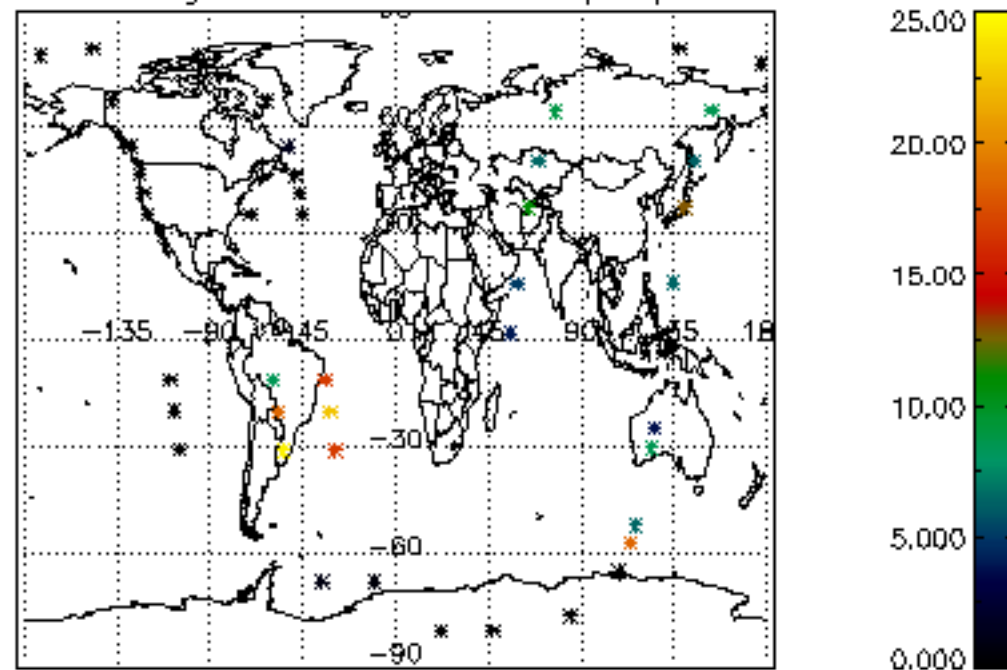
Percentage of datation errors per profile



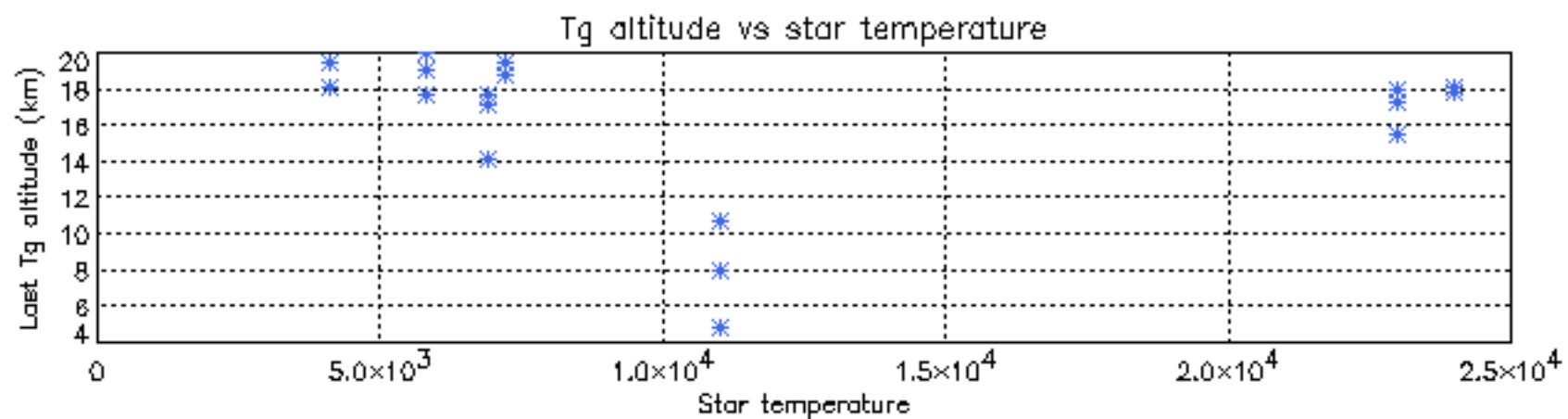
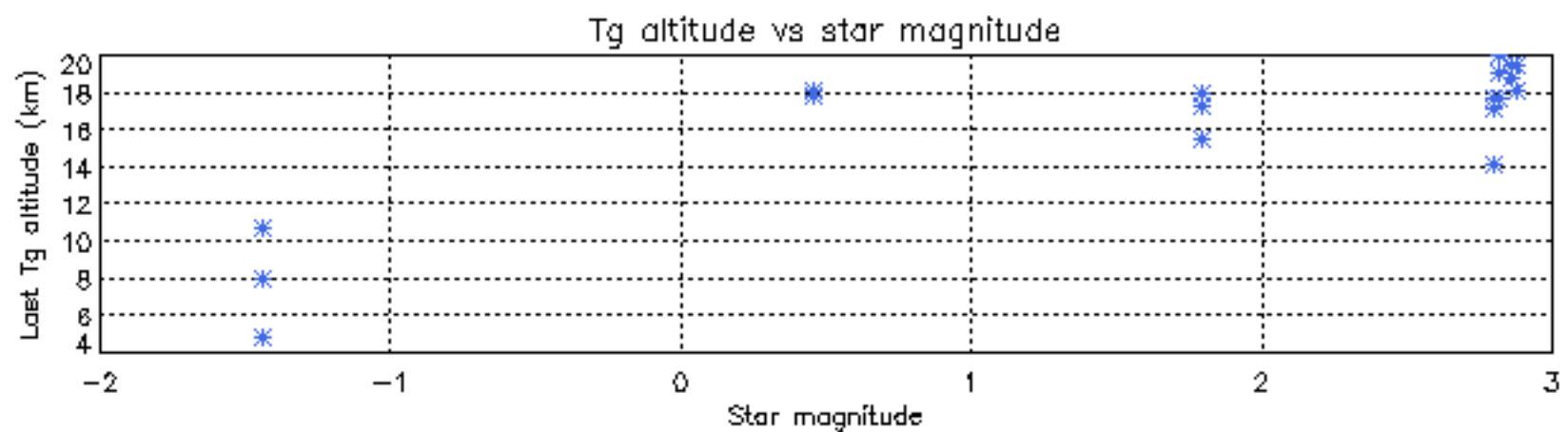
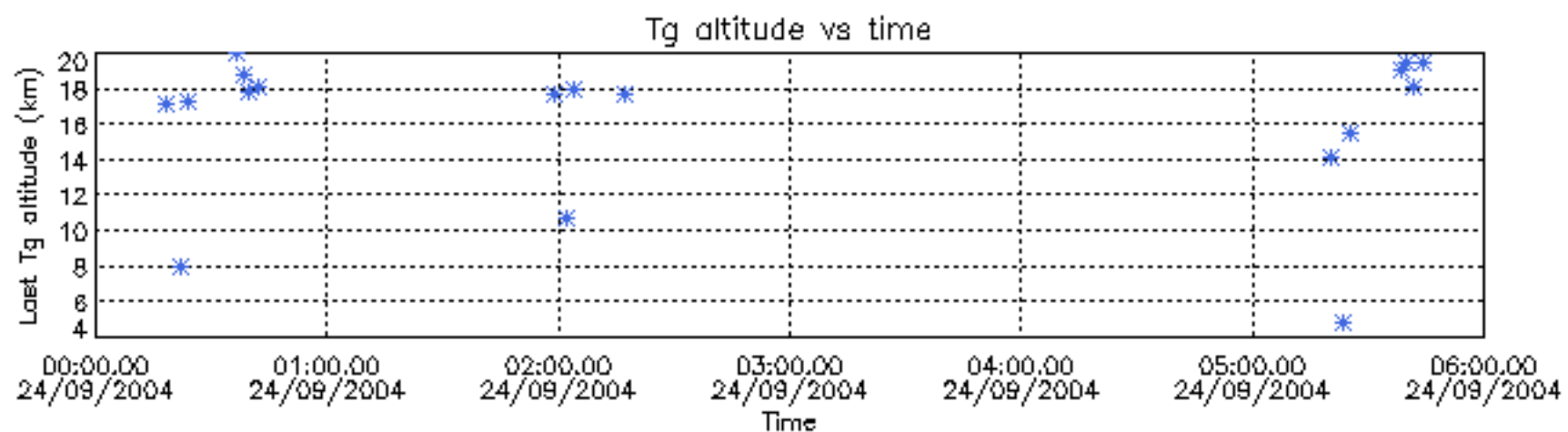
Percentage of star falling outside central band per profile



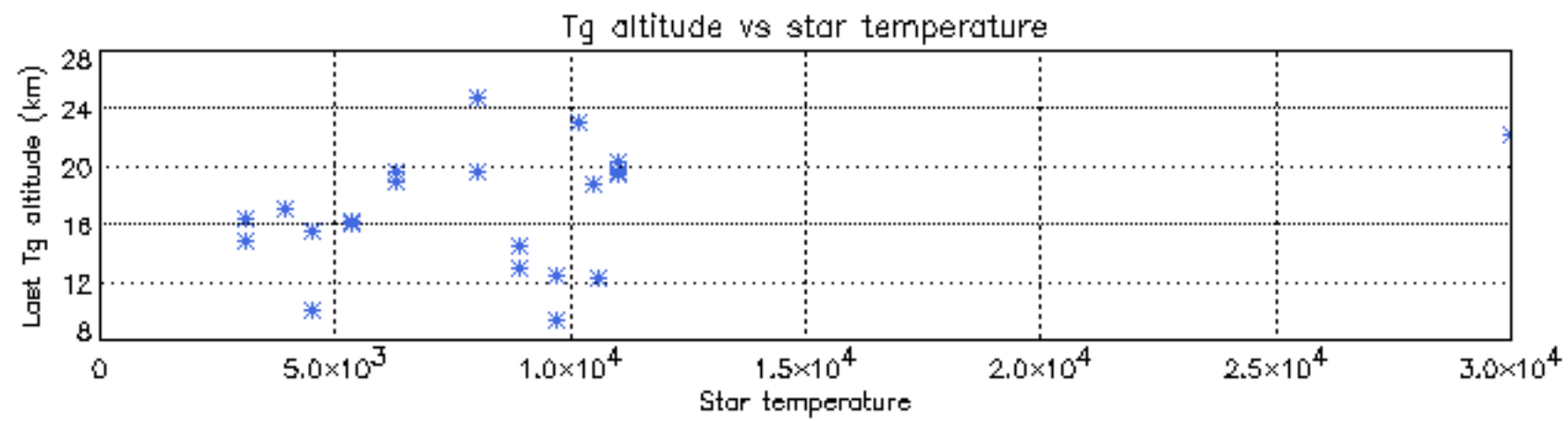
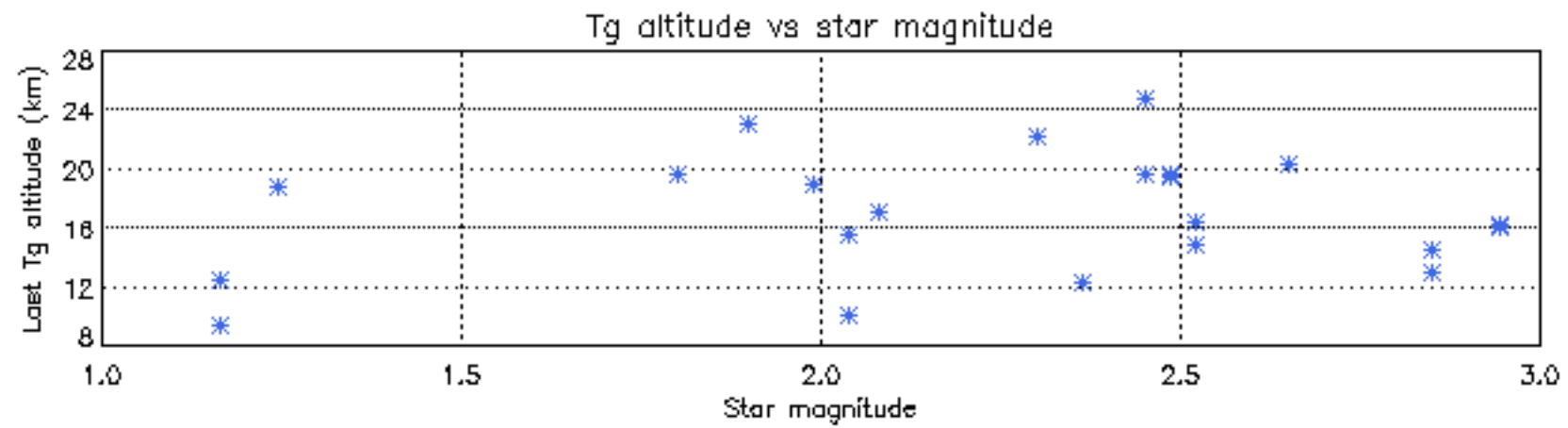
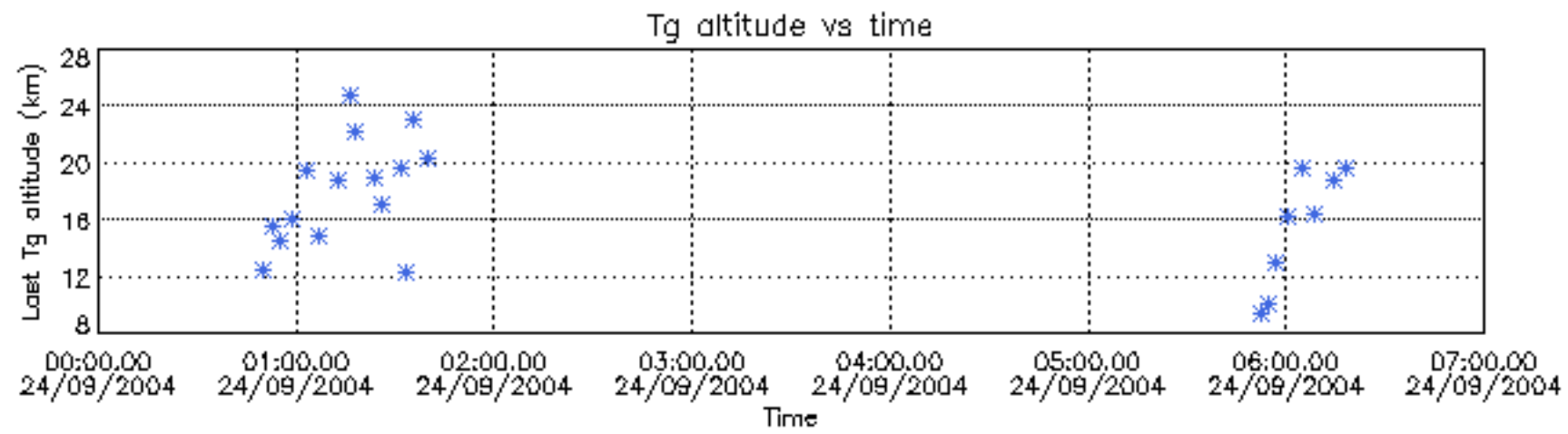
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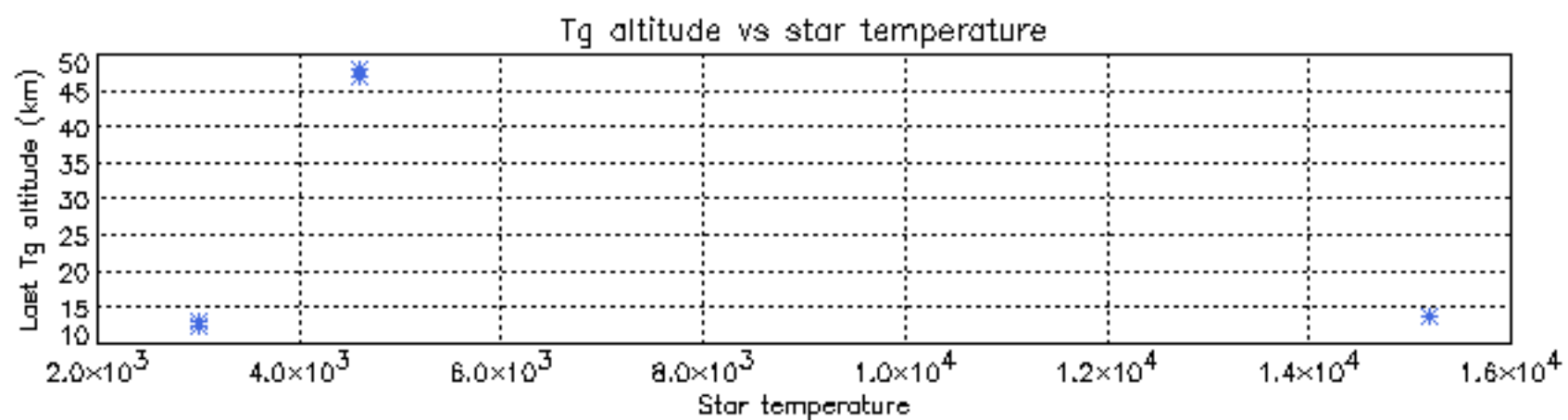
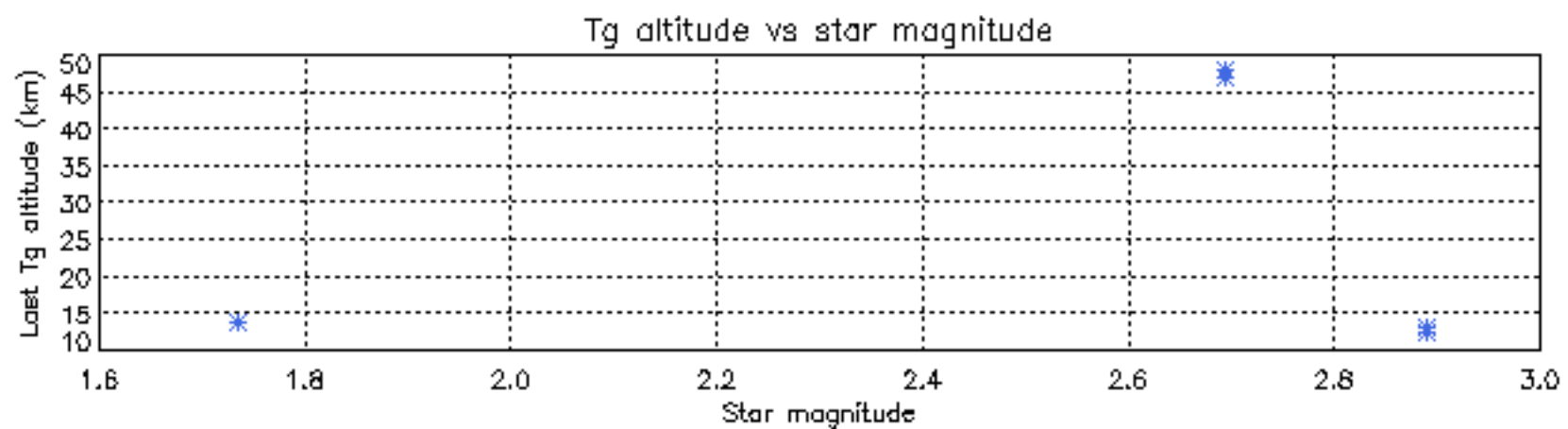
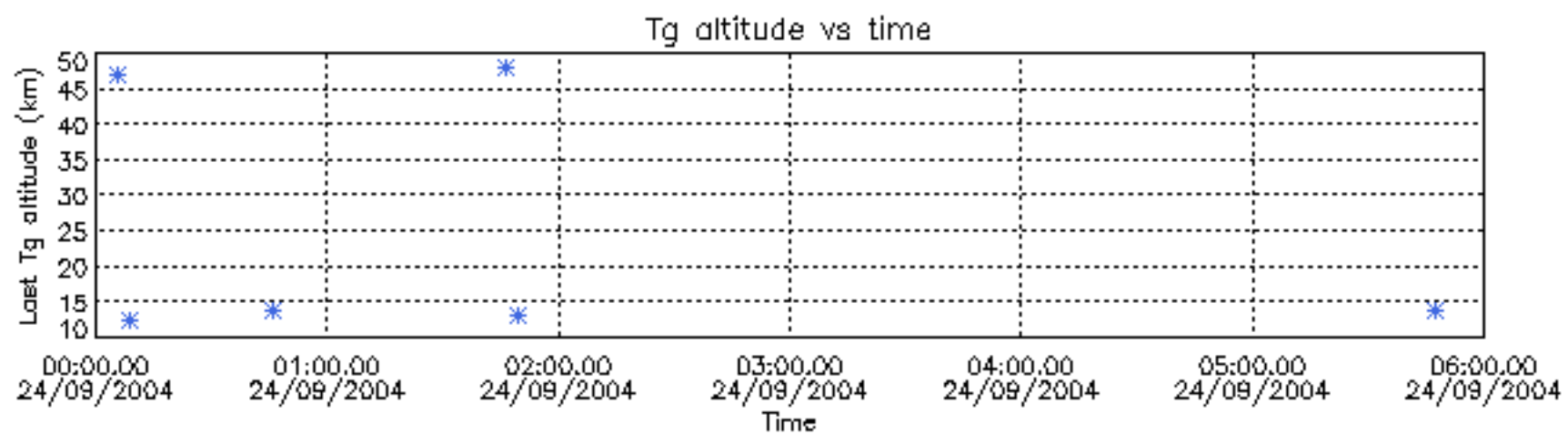
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Tangent altitude at which the star is lost



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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13; 54.9; 19-SEP-2004 08:07:02; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;13359
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9;	-3061.5;	19-SEP-2004	08:55:41;	Bright;	;	37.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	75;	0;	13359
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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
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
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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
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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
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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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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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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