

GOMOS Daily Report 11-JUL-2004

Level 0 and Level 1 products

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1. General Info

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	12JUL2004 04:02:45
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START) (11JUL2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (12JUL2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	33
Nb of prods with errors	1

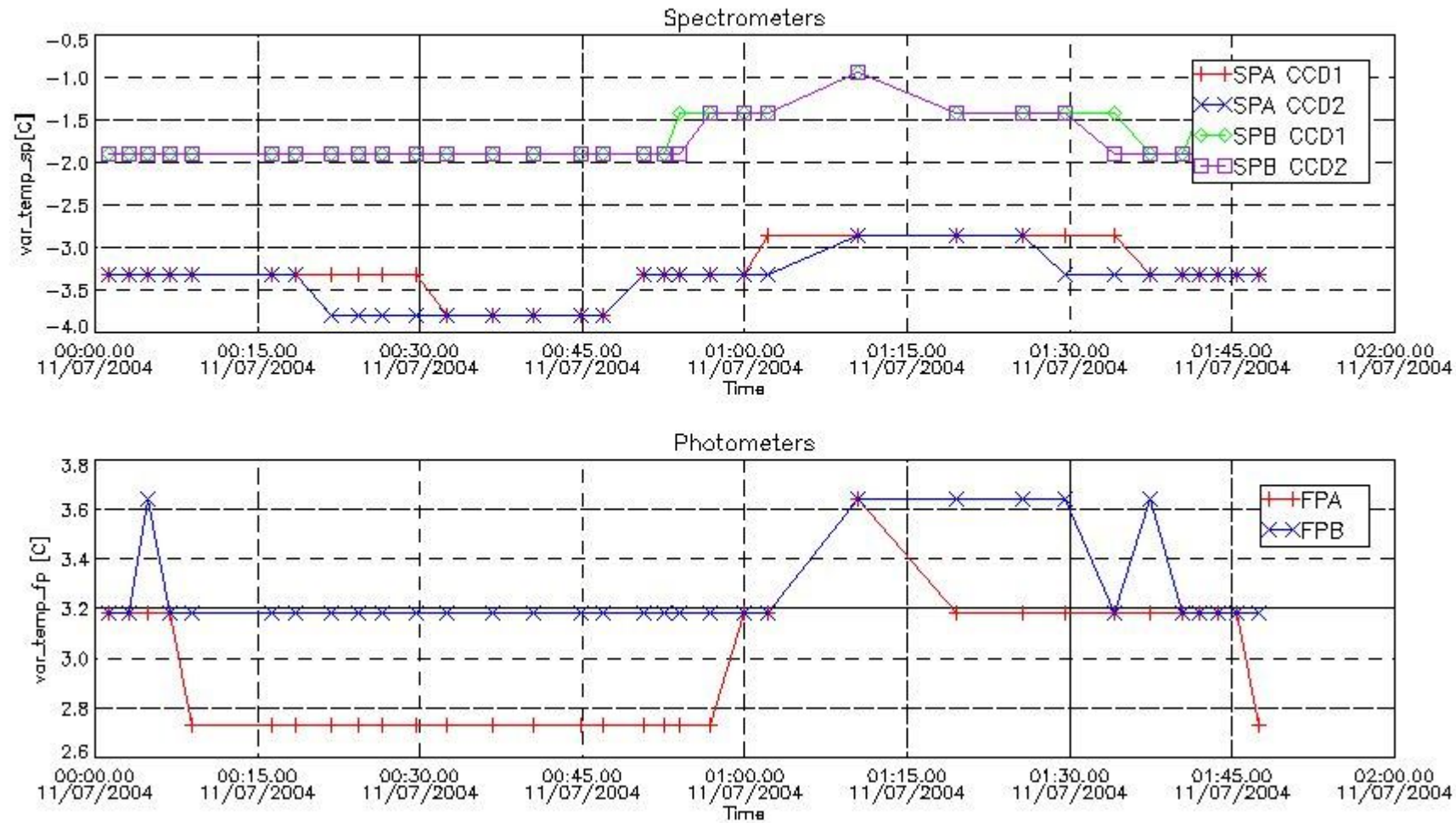
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040711_000117_000000412028_00274_12352_0007.N1	11-JUL-2004 00:01:17	Bright	40.500	147	Alp Ara	2.8770	26000.	81	12352	No
GOM_TRA_1PNPDE20040711_000308_000000402028_00274_12352_0008.N1	11-JUL-2004 00:03:08	Bright	40.000	40	The Sco	1.8590	7100.0	80	12352	No
GOM_TRA_1PNPDE20040711_000448_000000422028_00274_12352_0009.N1	11-JUL-2004 00:04:48	Bright	41.500	25	35Lam Sco	1.6200	28000.	83	12352	No
GOM_TRA_1PNPDE20040711_000649_000000432028_00274_12352_0010.N1	11-JUL-2004 00:06:49	Bright	43.000	57	34Sig Sgr	2.0660	26000.	86	12352	No
GOM_TRA_1PNPDE20040711_000856_000000992028_00274_12352_0011.N1	11-JUL-2004 00:08:56	Bright	98.500	142	49Del Cap	2.8500	8900.0	197	12352	No
GOM_TRA_1PNPDE20040711_001616_000000392028_00274_12352_0012.N1	11-JUL-2004 00:16:16	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	12352	No
GOM_TRA_1PNPDE20040711_001831_000000402028_00274_12352_0013.N1	11-JUL-2004 00:18:31	Bright	40.000	59	55Alp Oph	2.0800	8900.0	80	12352	No
GOM_TRA_1PNPDE20040711_002145_000000402028_00274_12352_0014.N1	11-JUL-2004 00:21:45	Bright	40.000	127	27Bet Her	2.7810	4700.0	80	12352	No
GOM_TRA_1PNPDE20040711_002416_000000412028_00274_12352_0015.N1	11-JUL-2004 00:24:16	Bright	40.500	133	40Zet Her	2.8070	6000.0	81	12352	No
GOM_TRA_1PNPDE20040711_002626_000000462028_00274_12352_0016.N1	11-JUL-2004 00:26:26	Bright	45.500	5	3Alp Lyr	0.033000	11000.	91	12352	No
GOM_TRA_1PNPDE20040711_002937_000000372028_00274_12352_0017.N1	11-JUL-2004 00:29:37	Bright	36.500	69	33Gam Dra	2.2310	3800.0	73	12352	No
GOM_TRA_1PNPDE20040711_003232_000000402028_00274_12352_0018.N1	11-JUL-2004 00:32:32	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	12352	No
GOM_TRA_1PNPDE20040711_003643_000000432028_00274_12352_0019.N1	11-JUL-2004 00:36:43	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	12352	No
GOM_TRA_1PNPDE20040711_004031_000000372028_00274_12352_0020.N1	11-JUL-2004 00:40:31	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	12352	No
GOM_TRA_1PNPDE20040711_004449_000000492028_00274_12352_0021.N1	11-JUL-2004 00:44:49	Bright	49.000	74	11Bet Cas	2.2680	6600.0	98	12352	No
GOM_TRA_1PNPDE20040711_004656_000000462028_00274_12352_0022.N1	11-JUL-2004 00:46:56	Bright	46.000	110	37Del Cas	2.6780	8900.0	92	12352	No
GOM_TRA_1PNPDE20040711_005039_000000592028_00274_12352_0023.N1	11-JUL-2004 00:50:39	Bright	59.000	160	23Gam Per	2.9300	4700.0	118	12352	No
GOM_TRA_1PNPDE20040711_005236_000000412028_00274_12352_0024.N1	11-JUL-2004 00:52:36	Twilight	41.000	175	39Del Per	3.0100	19400.	82	12352	No
GOM_TRA_1PNPDE20040711_005401_000000642028_00274_12352_0025.N1	11-JUL-2004 00:54:01	Twilight	63.500	73	57Gam1And	2.2600	13100.	127	12352	No
GOM_TRA_1PNPDE20040711_005647_000000942028_00274_12352_0026.N1	11-JUL-2004 00:56:47	Twilight	94.000	53	43Bet And	2.0480	3300.0	188	12352	No
GOM_TRA_1PNPDE20040711_005956_000000462028_00274_12352_0027.N1	11-JUL-2004 00:59:56	Twilight	46.000	146	25Eta Tau	2.8730	15200.	92	12352	No
GOM_TRA_1PNPDE20040711_010211_000000732028_00274_12352_0028.N1	11-JUL-2004 01:02:11	Dark	73.000	50	13Alp Ari	2.0070	4250.0	146	12352	No
GOM_TRA_1PNPDE20040711_011028_000000362028_00274_12352_0000.N1	11-JUL-2004 01:10:28	Dark	36.000	101	11Alp Lep	2.5820	7000.0	72	12352	Yes
GOM_TRA_1PNPDE20040711_011927_000000452028_00274_12352_0001.N1	11-JUL-2004 01:19:27	Dark	44.500	157	The1Eri	2.9060	9300.0	89	12352	No
GOM_TRA_1PNPDE20040711_012541_000000472028_00275_12353_0002.N1	11-JUL-2004 01:25:41	Dark	47.000	9	Alp Eri	0.45300	24000.	94	12353	No
GOM_TRA_1PNPDE20040711_012936_000000402028_00275_12353_0003.N1	11-JUL-2004 01:29:36	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	12353	No
GOM_TRA_1PNPDE20040711_013409_000000682028_00275_12353_0004.N1	11-JUL-2004 01:34:09	Twilight	68.000	63	Bet Gru	2.1500	2800.0	136	12353	No
GOM_TRA_1PNPDE20040711_013726_000000902028_00275_12353_0005.N1	11-JUL-2004 01:37:26	Bright	90.000	18	24Alp PsA	1.1660	9700.0	180	12353	No
GOM_TRA_1PNPDE20040711_014021_000000422028_00275_12353_0006.N1	11-JUL-2004 01:40:21	Bright	42.000	141	Bet Ara	2.8400	4600.0	84	12353	No
GOM_TRA_1PNPDE20040711_014153_000000392028_00275_12353_0007.N1	11-JUL-2004 01:41:53	Bright	39.000	147	Alp Ara	2.8770	26000.	78	12353	No
GOM_TRA_1PNPDE20040711_014344_000000422028_00275_12353_0008.N1	11-JUL-2004 01:43:44	Bright	42.000	40	The Sco	1.8590	7100.0	84	12353	No
GOM_TRA_1PNPDE20040711_014524_000000432028_00275_12353_0009.N1	11-JUL-2004 01:45:24	Bright	43.000	25	35Lam Sco	1.6200	28000.	86	12353	No
GOM_TRA_1PNPDE20040711_014727_000000442028_00275_12353_0010.N1	11-JUL-2004 01:47:27	Bright	43.500	57	34Sig Sgr	2.0660	26000.	87	12353	No

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



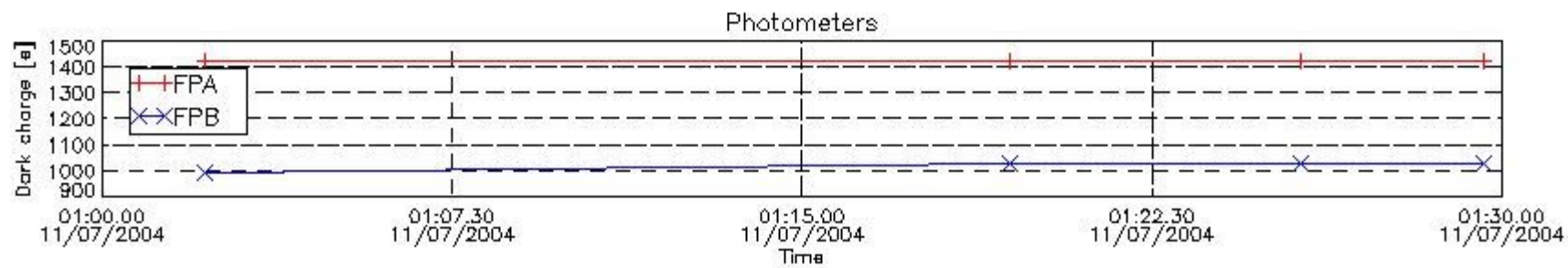
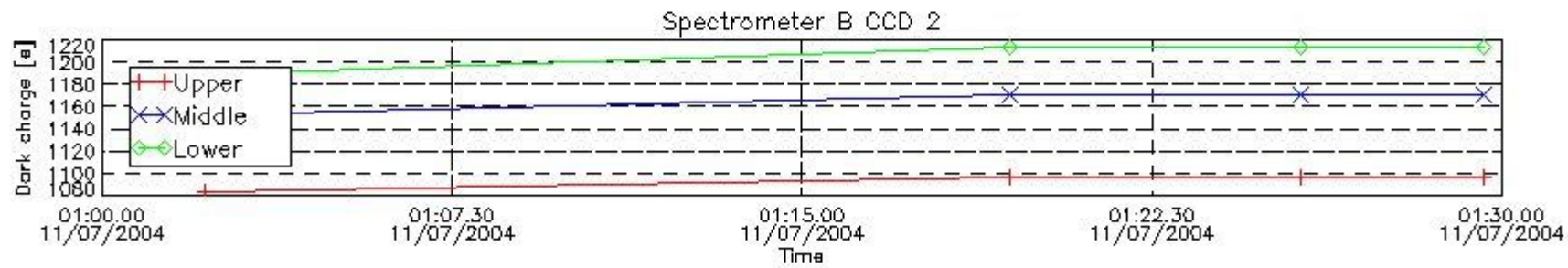
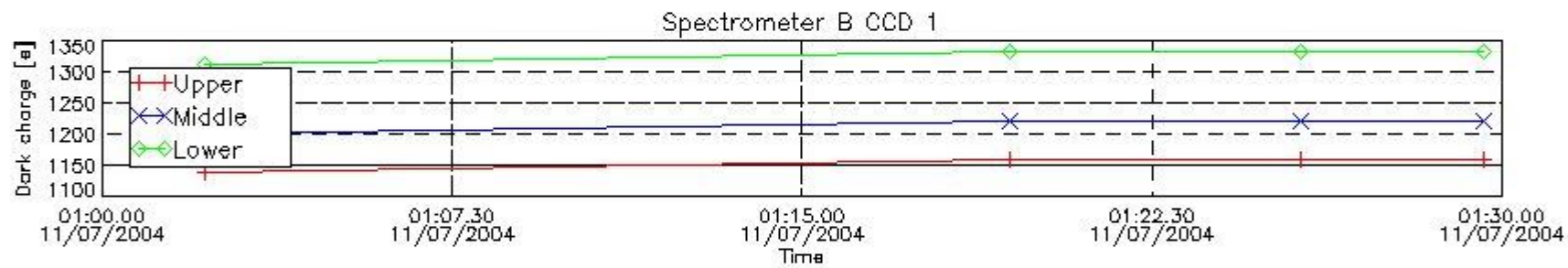
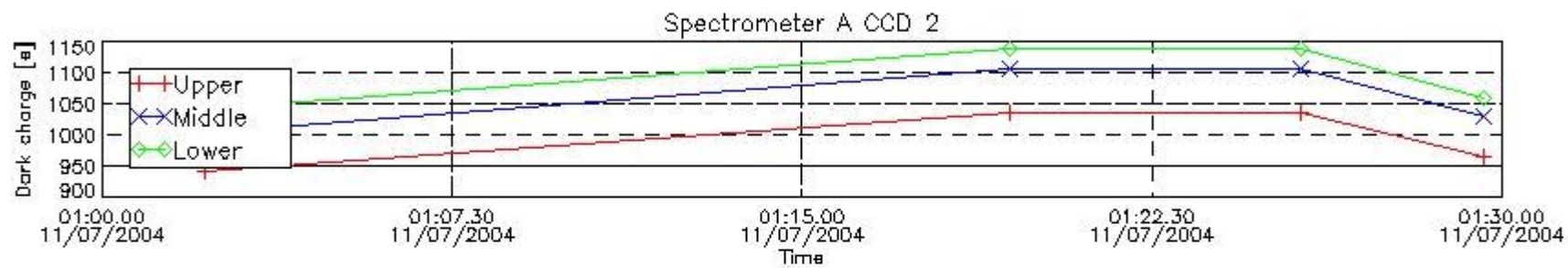
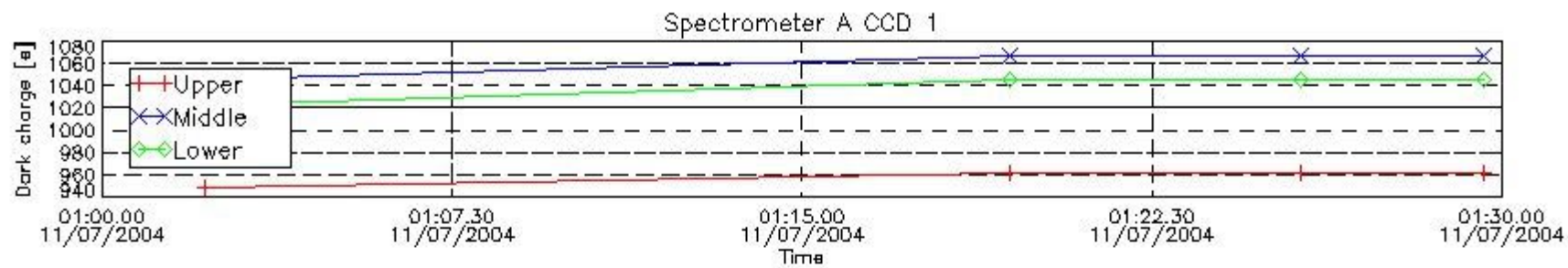
4. Overview of dark signal processing per product

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



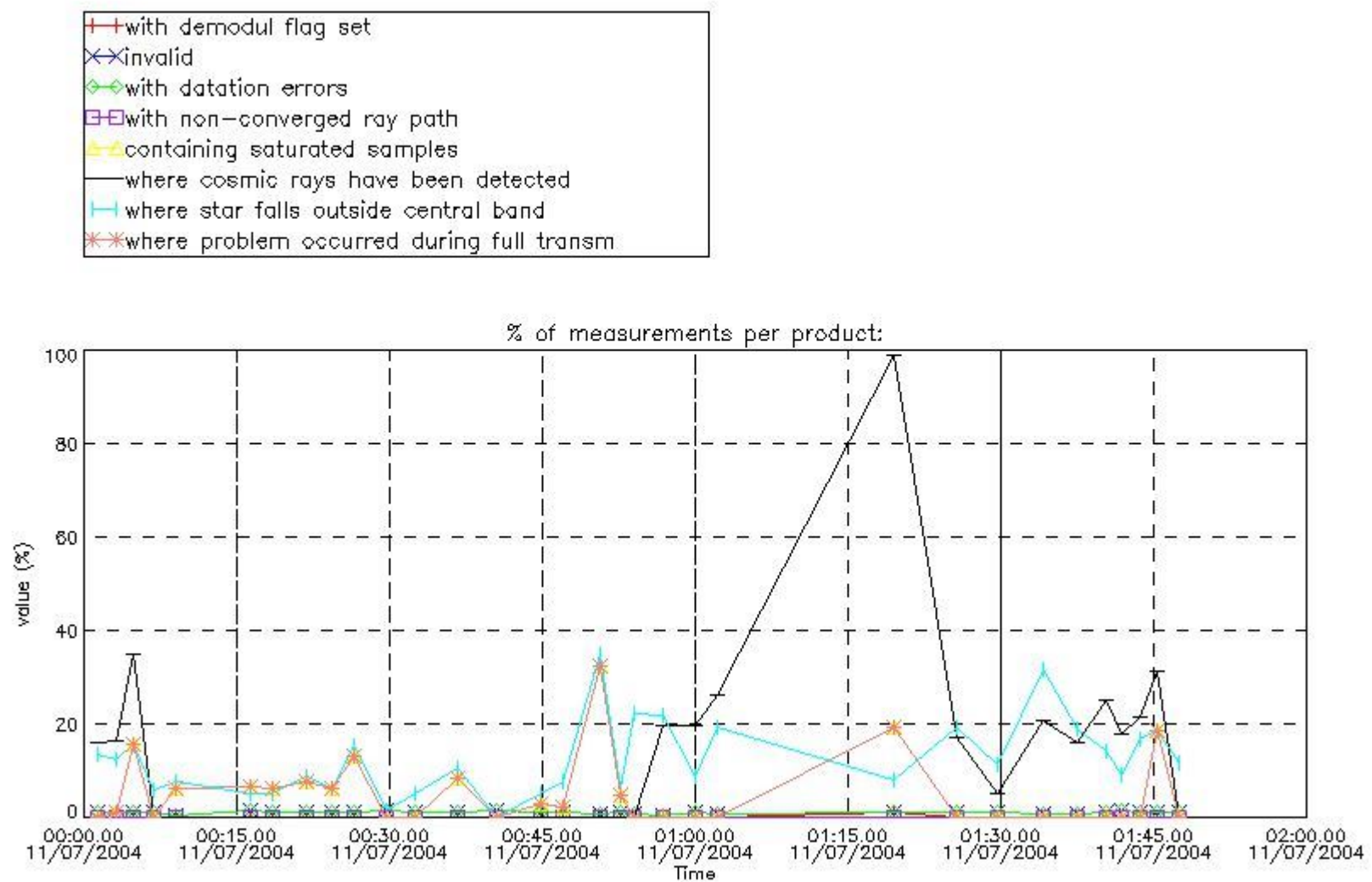
5. Demodulation flag and quality information monitoring

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:

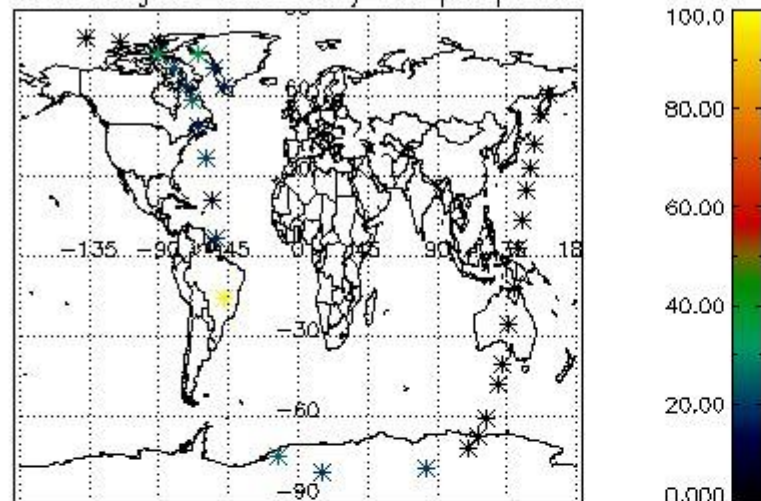
At least one measurement with demodulation flag set:	3.12500 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

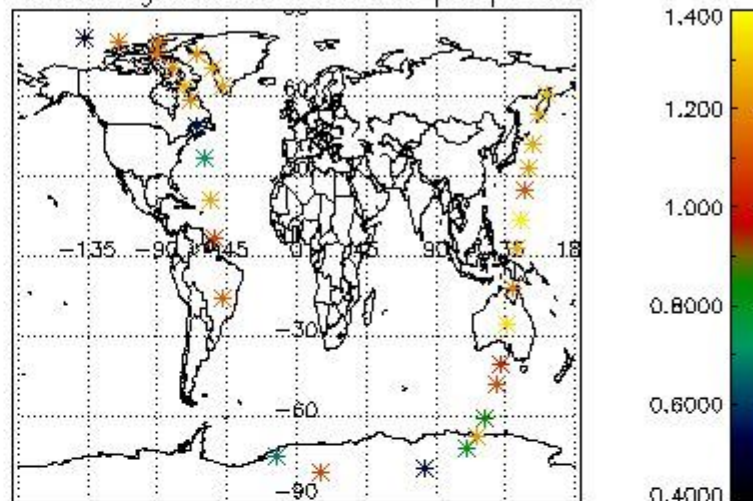


5.3 Plot quality information per product (world map)

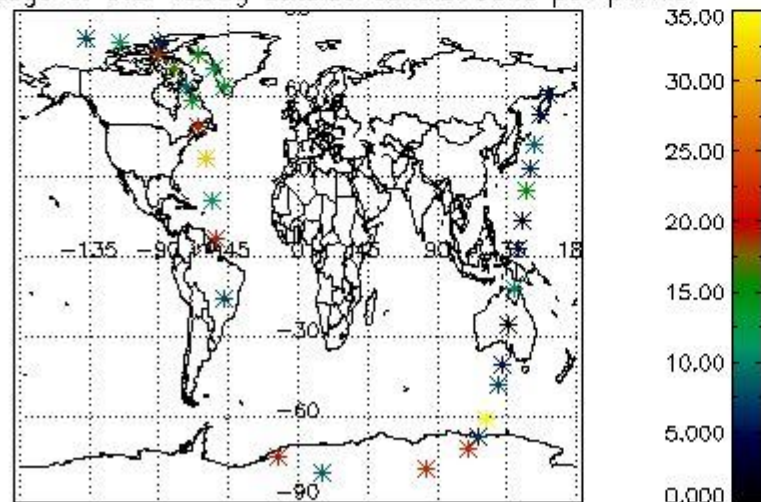
Percentage of cosmic ray hits per profile



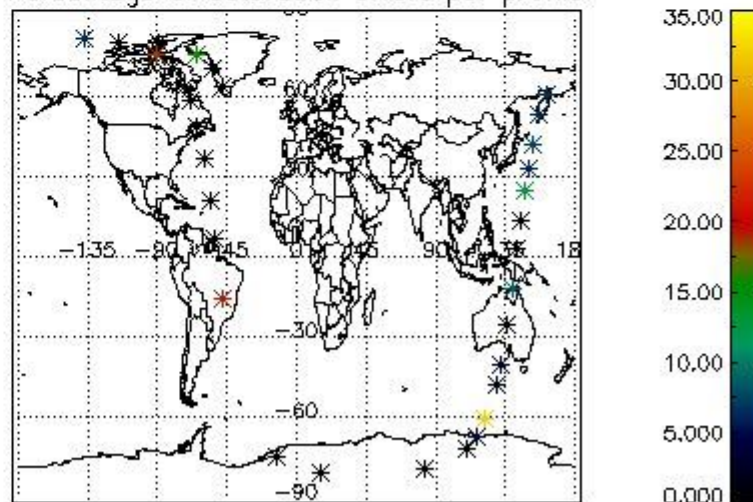
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



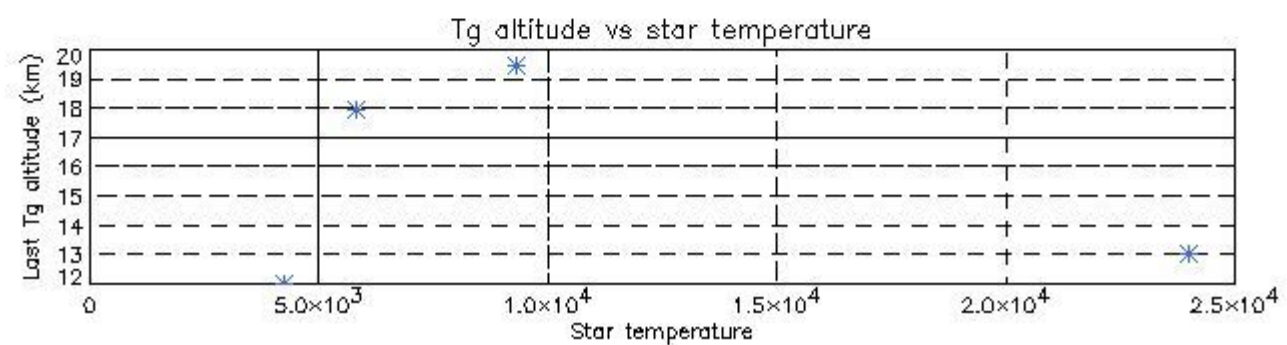
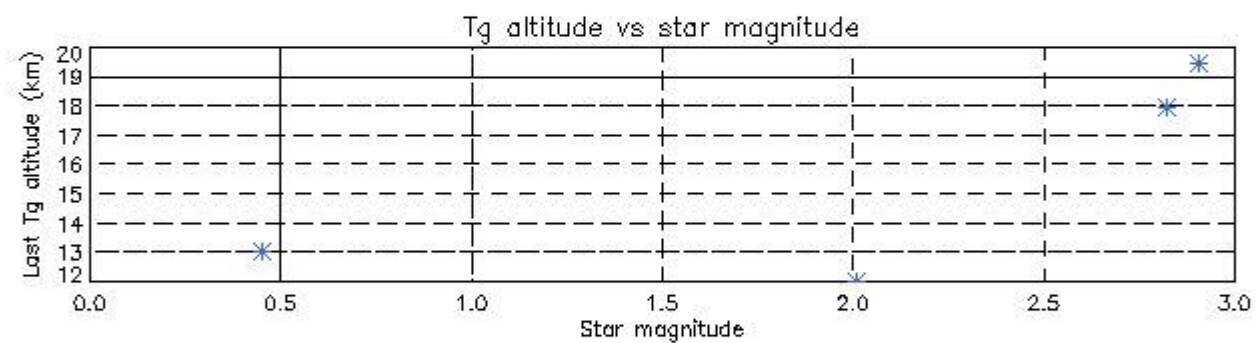
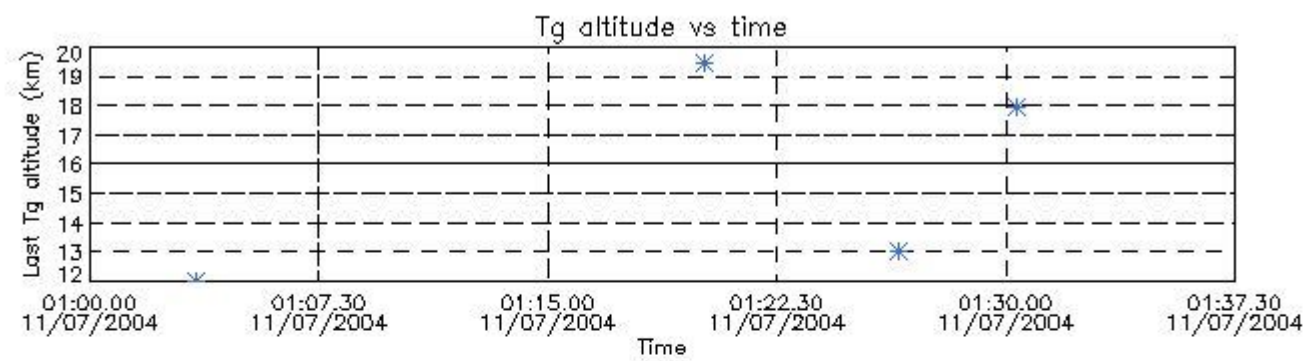
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.609	17.802	12.927
St. deviation:	3.6451	4.9841	6.5305
Maximum:	19.457	28.839	21.275
Minimum:	12.028	4.7797	4.3317
Number of data:	4.0000	23.000	5.0000

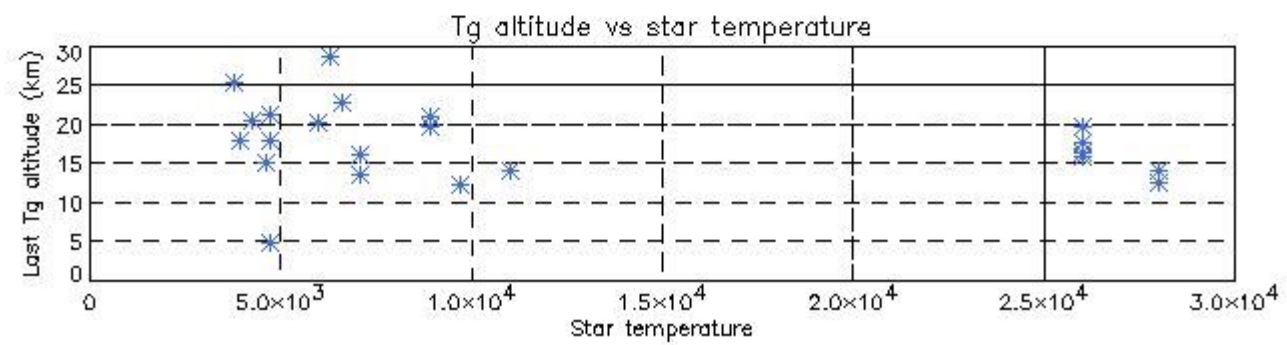
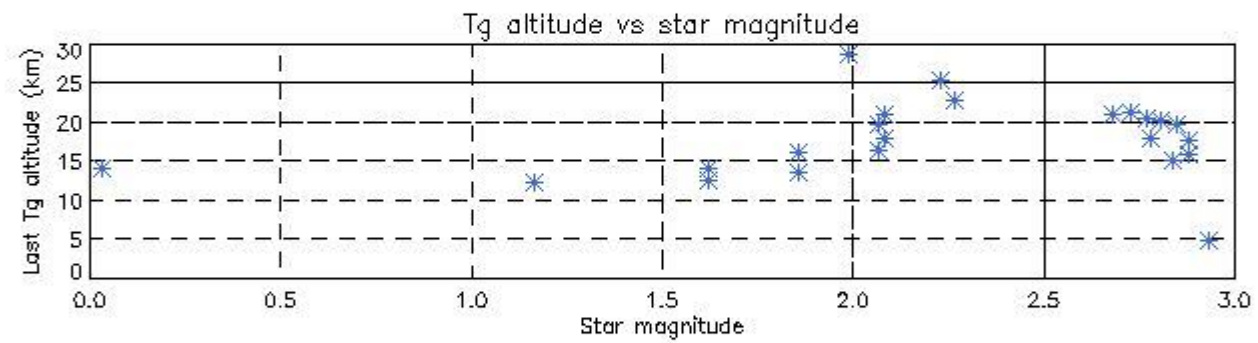
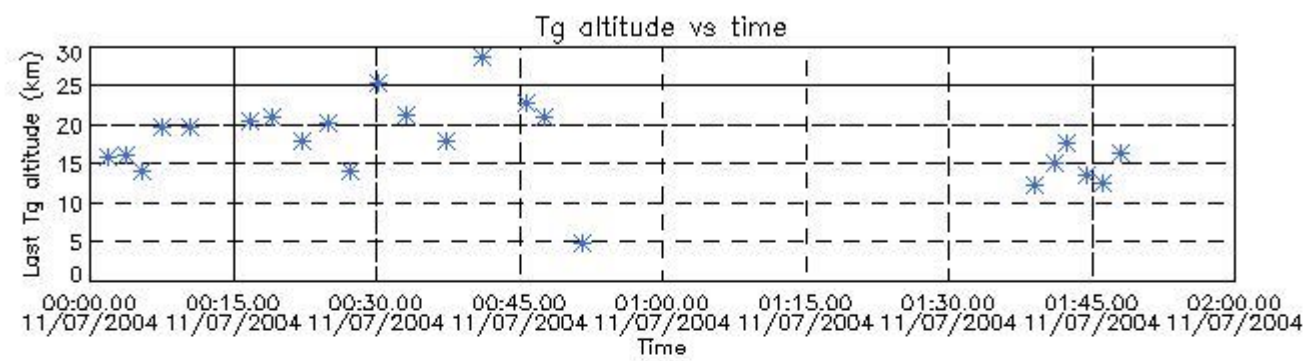
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



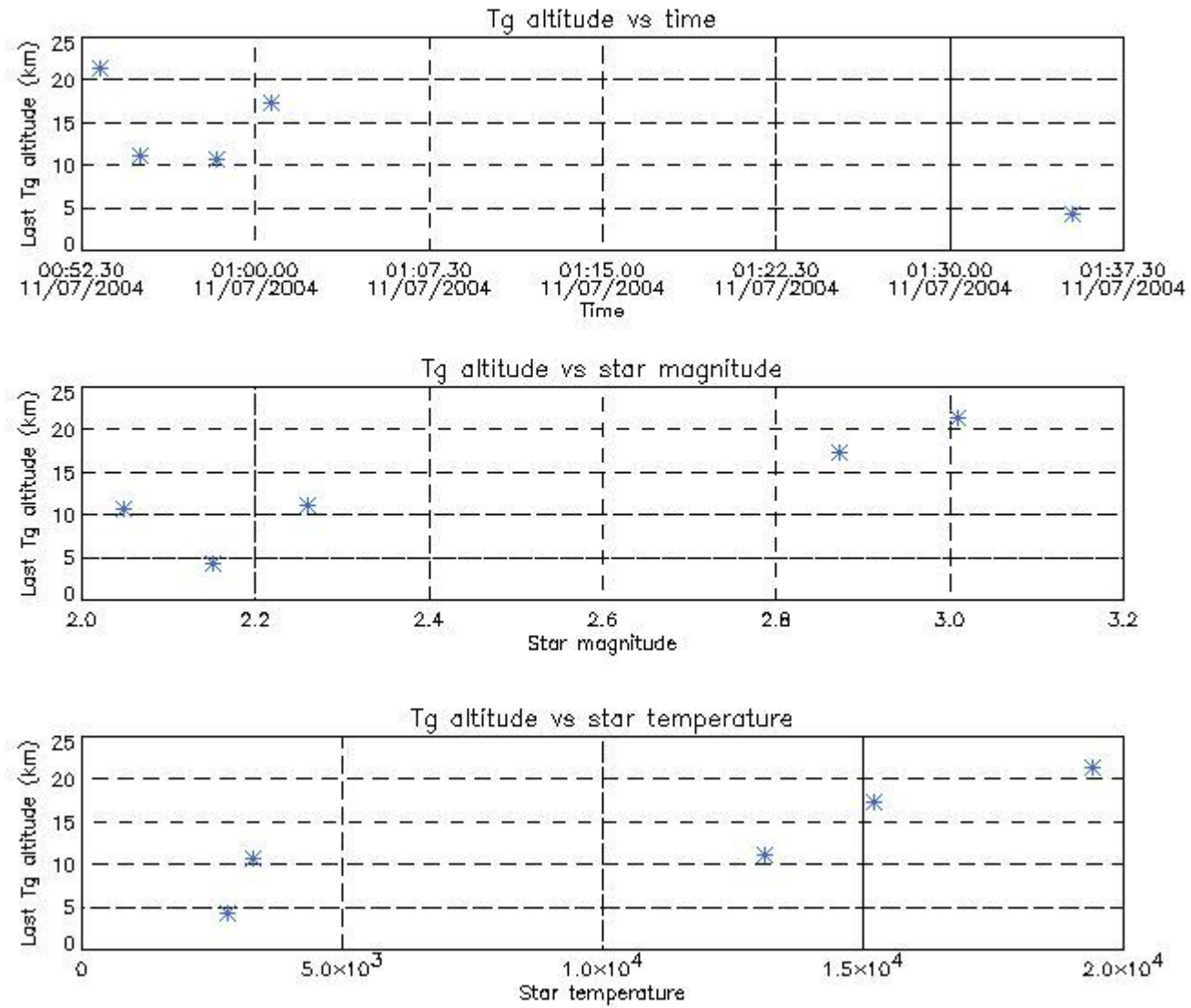
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

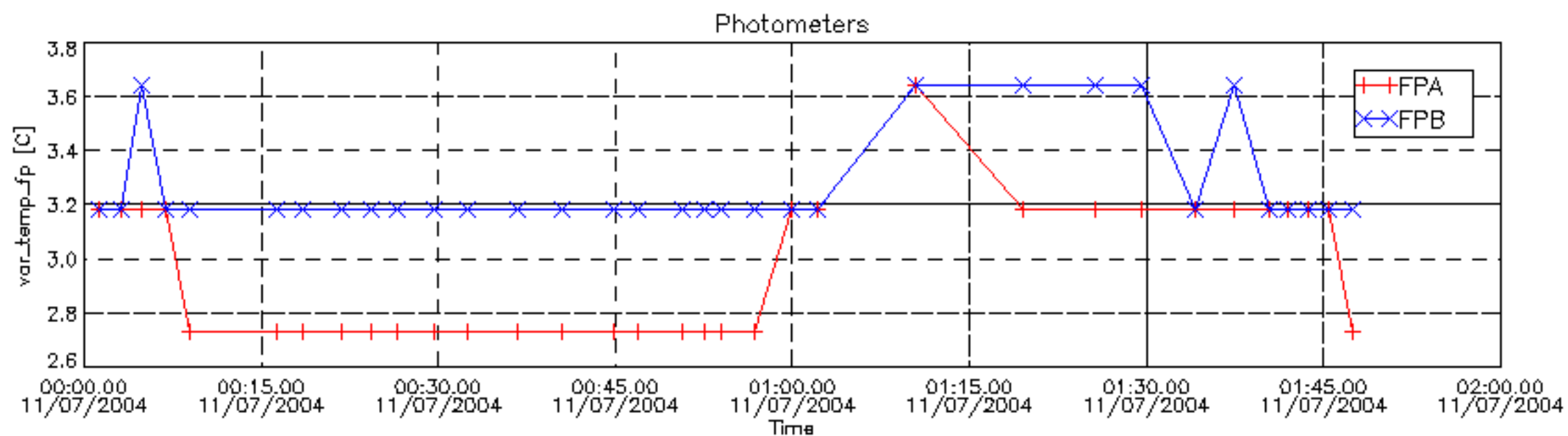
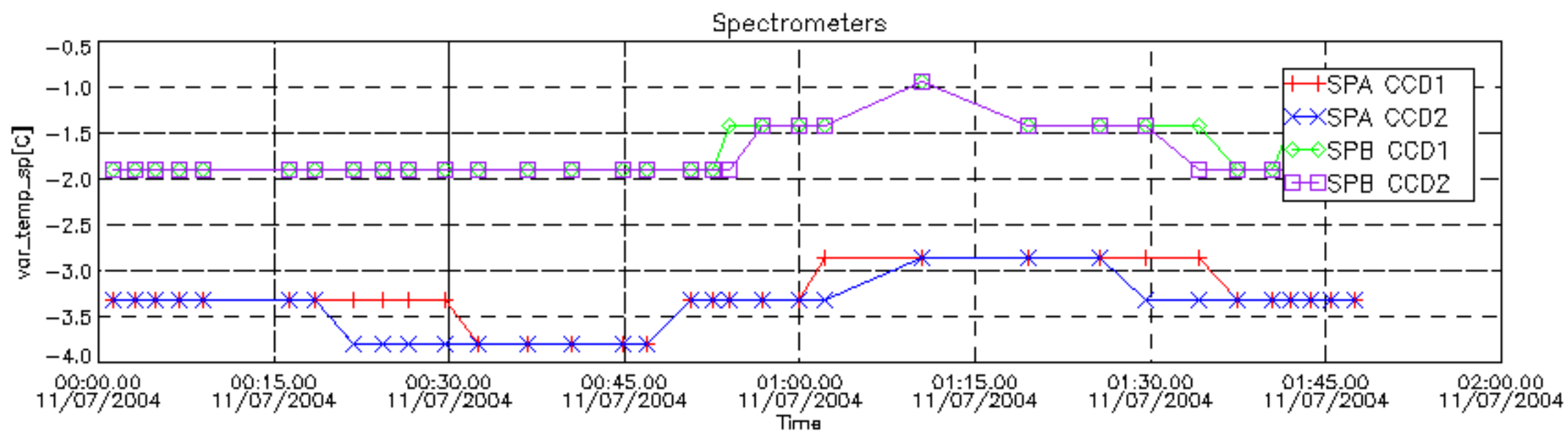
Tangent altitude at which the star is lost

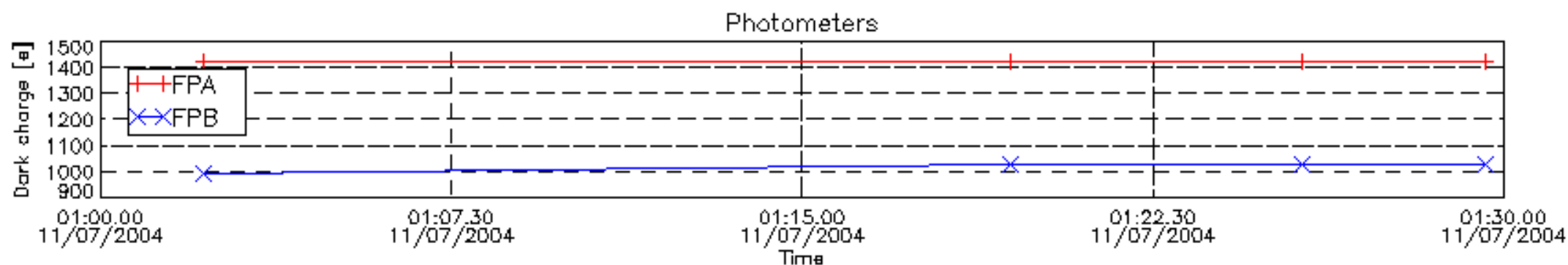
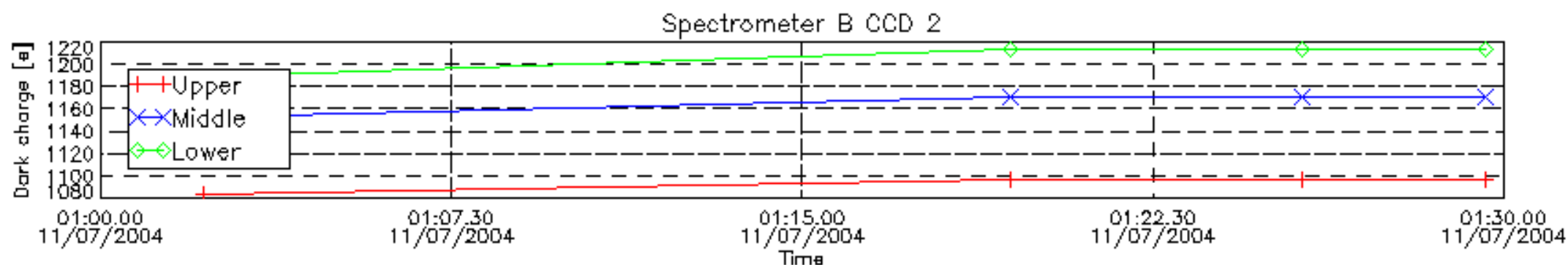
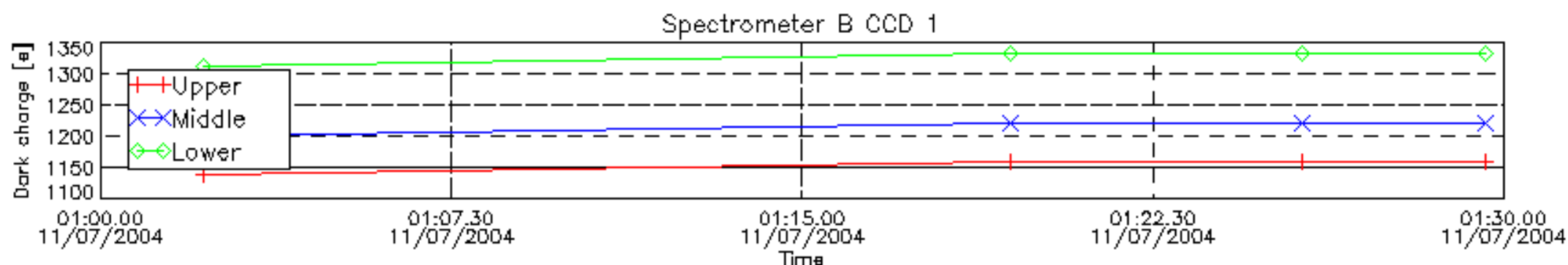
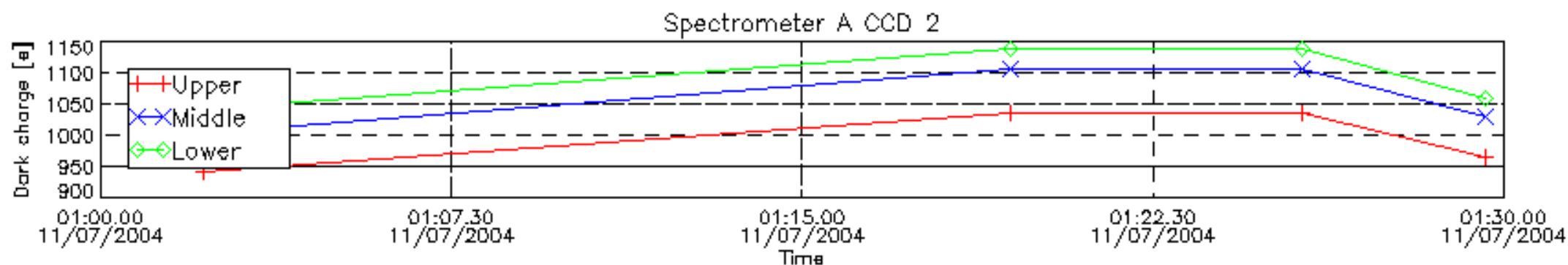
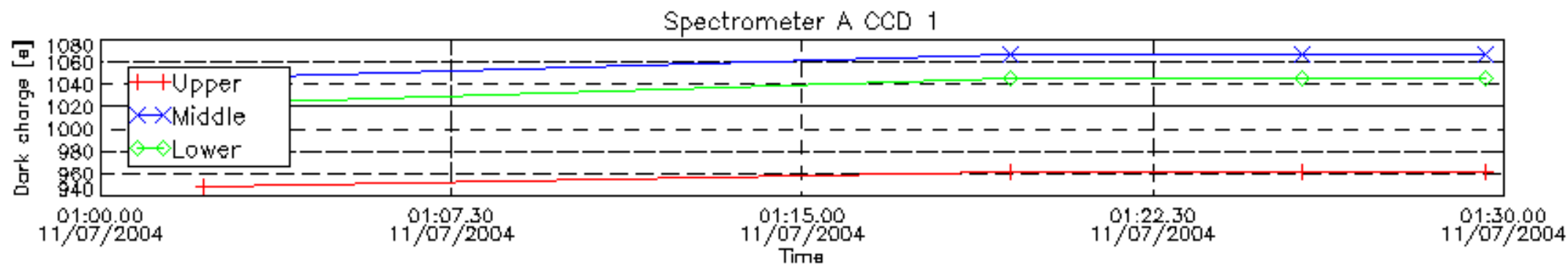


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

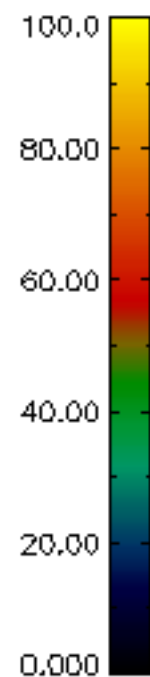
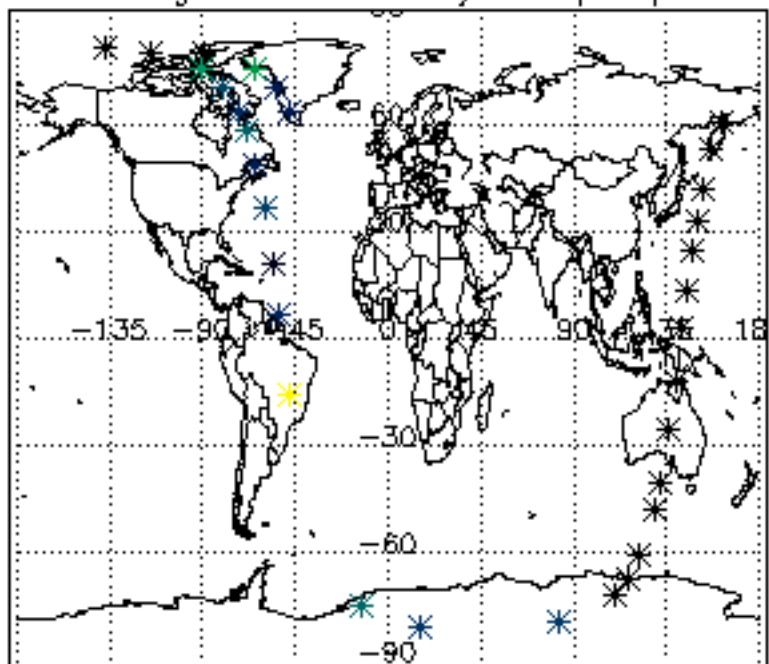
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.3	1447.9	1460.9	1447.4
St. deviation:	6.8431	7.5050	6.3184	6.9225
Maximum:	1835.0	1535.0	1507.0	1485.0
Minimum:	1441.0	1421.0	1436.0	1424.0
Number of data:	5200.0	5200.0	27850.	27850.

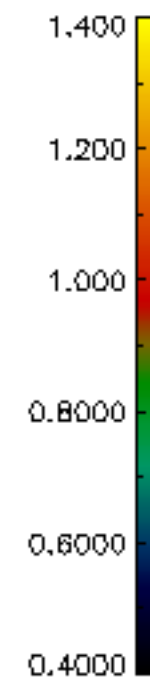
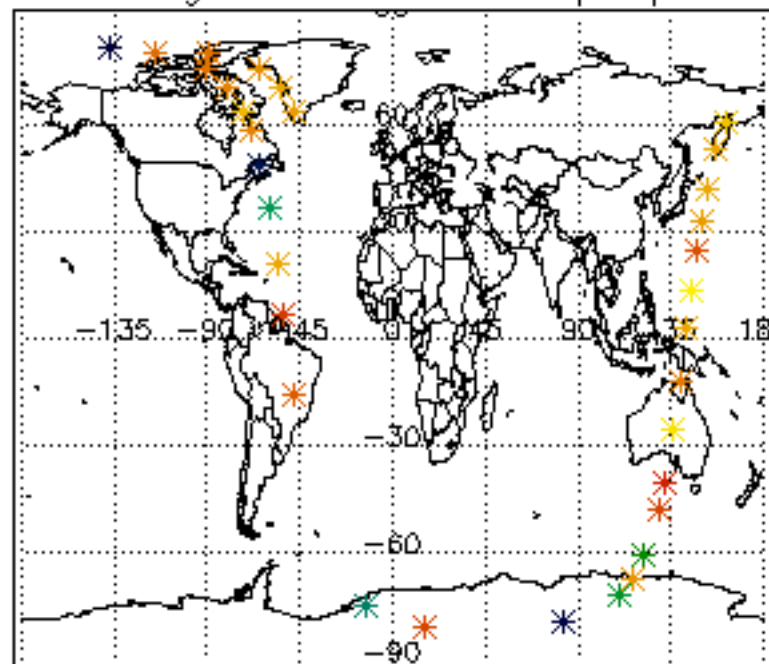




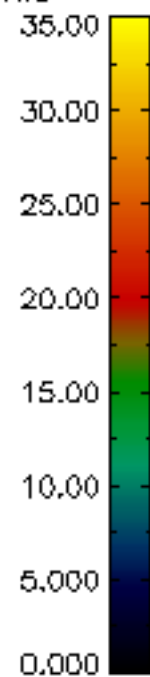
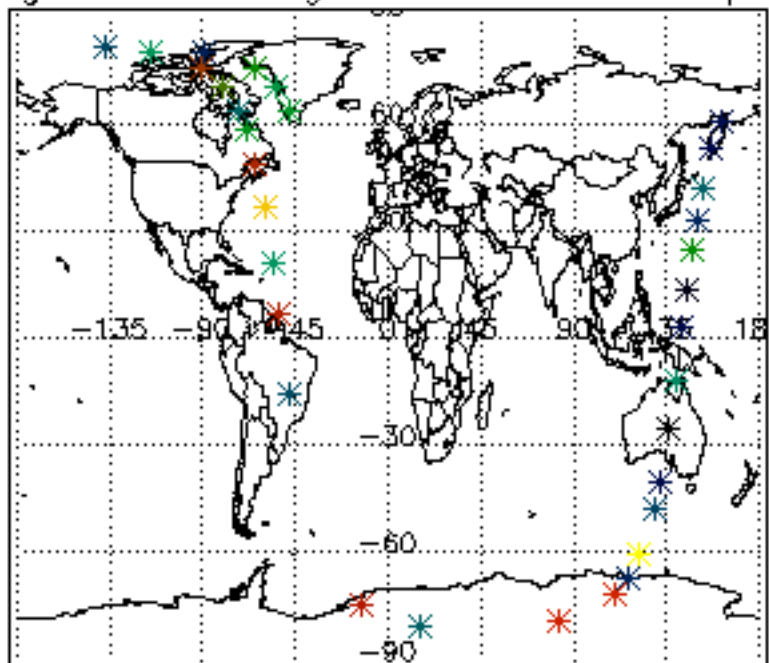
Percentage of cosmic ray hits per profile



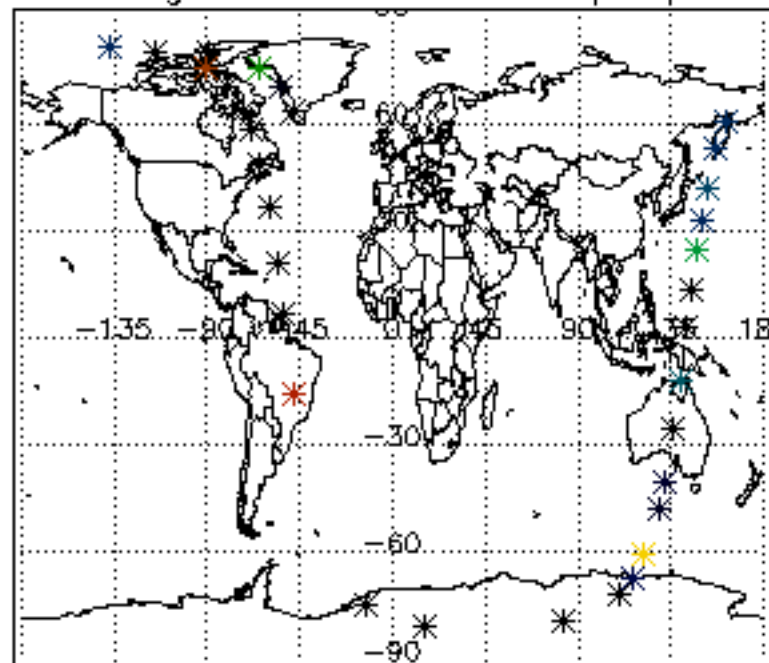
Percentage of datation errors per profile



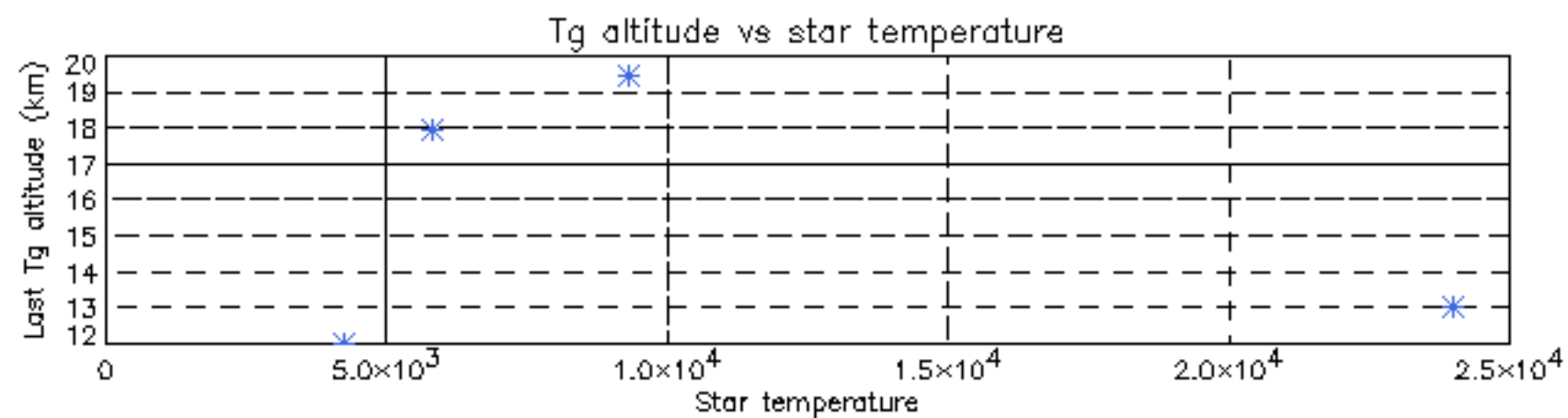
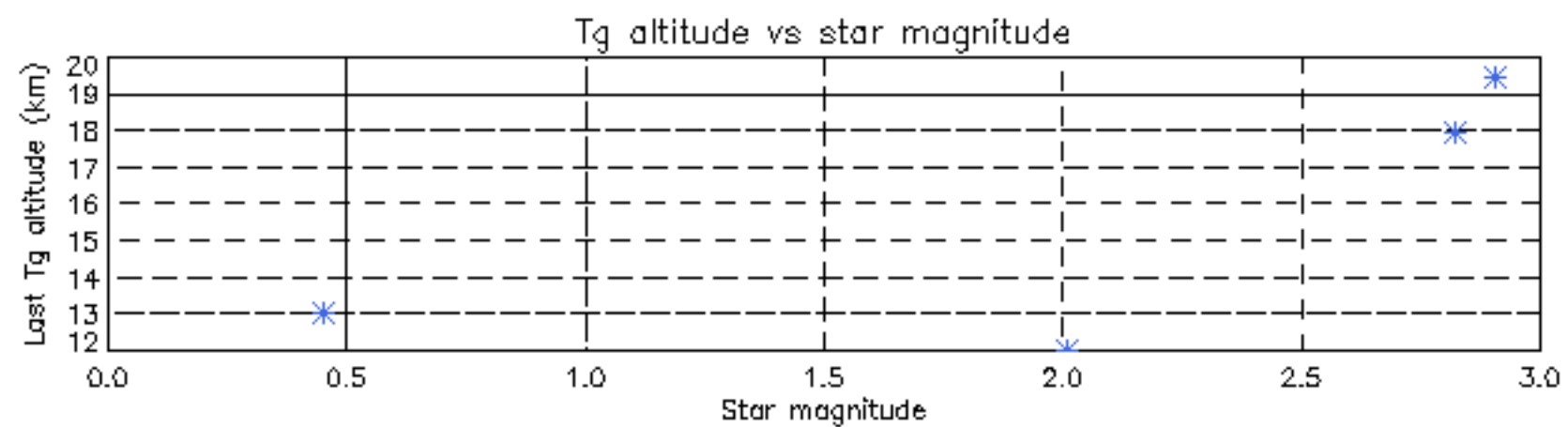
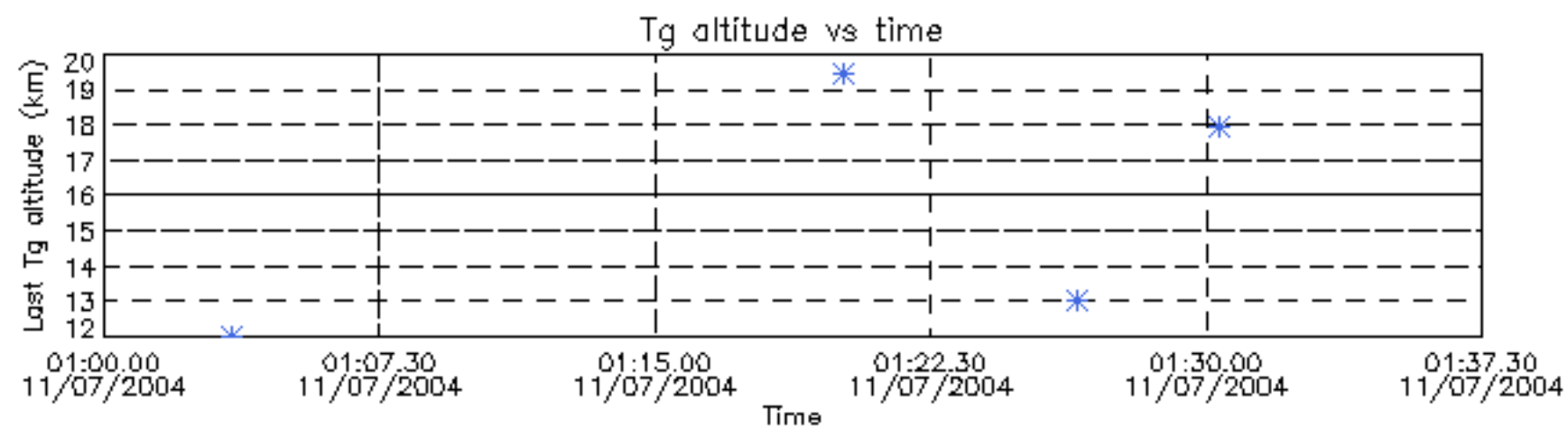
Percentage of star falling outside central band per profile



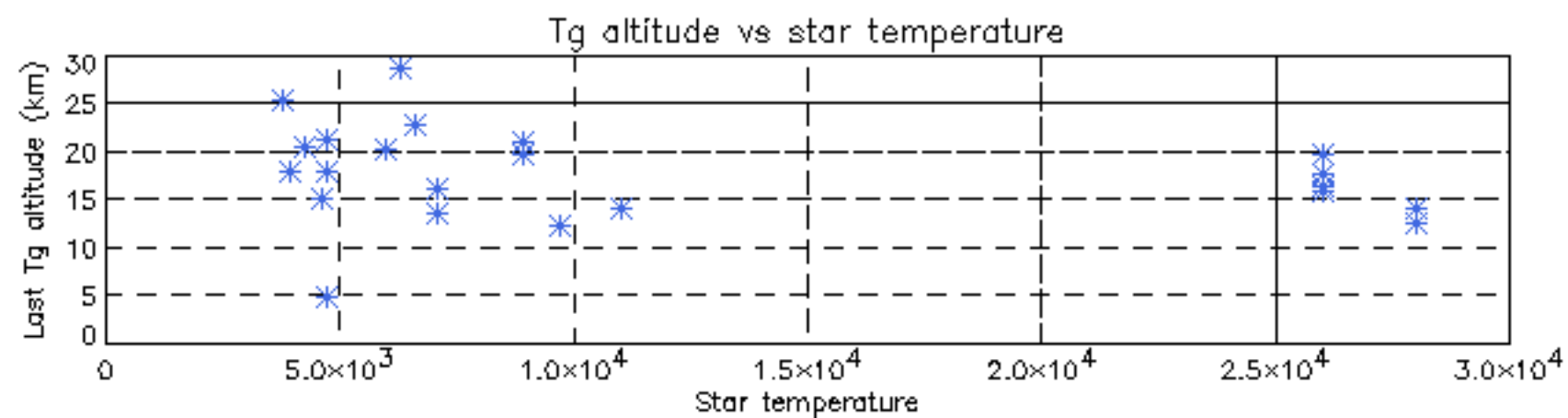
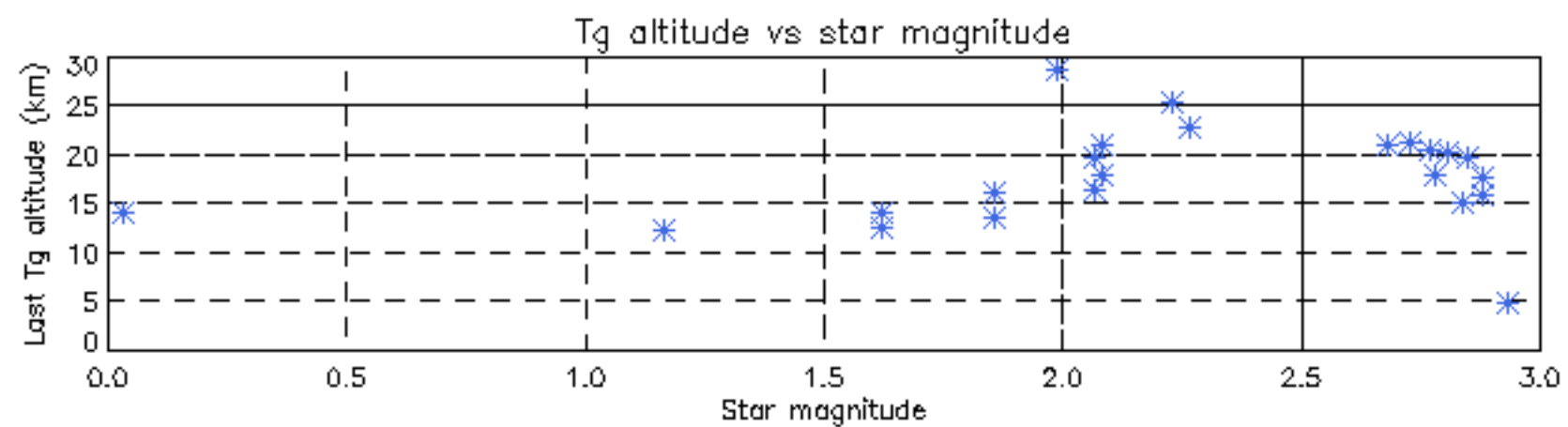
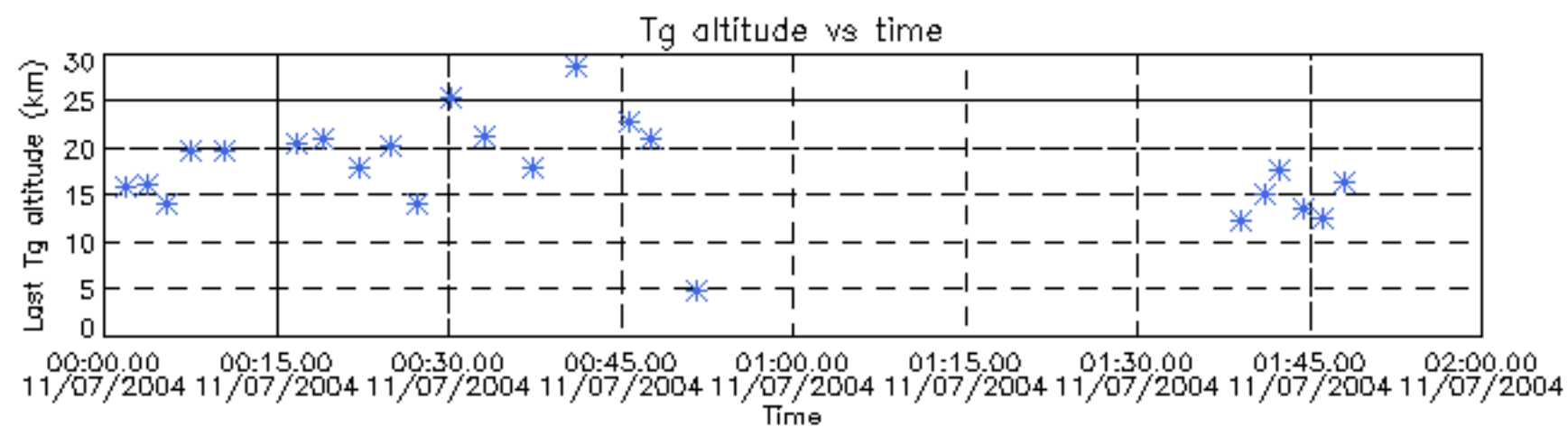
Percentage of saturation errors per profile



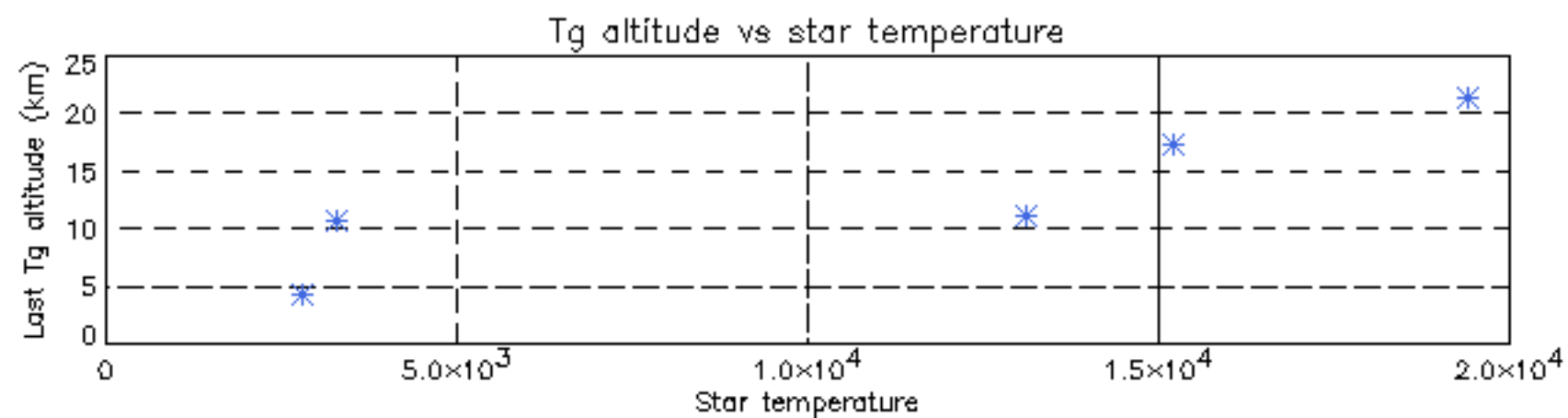
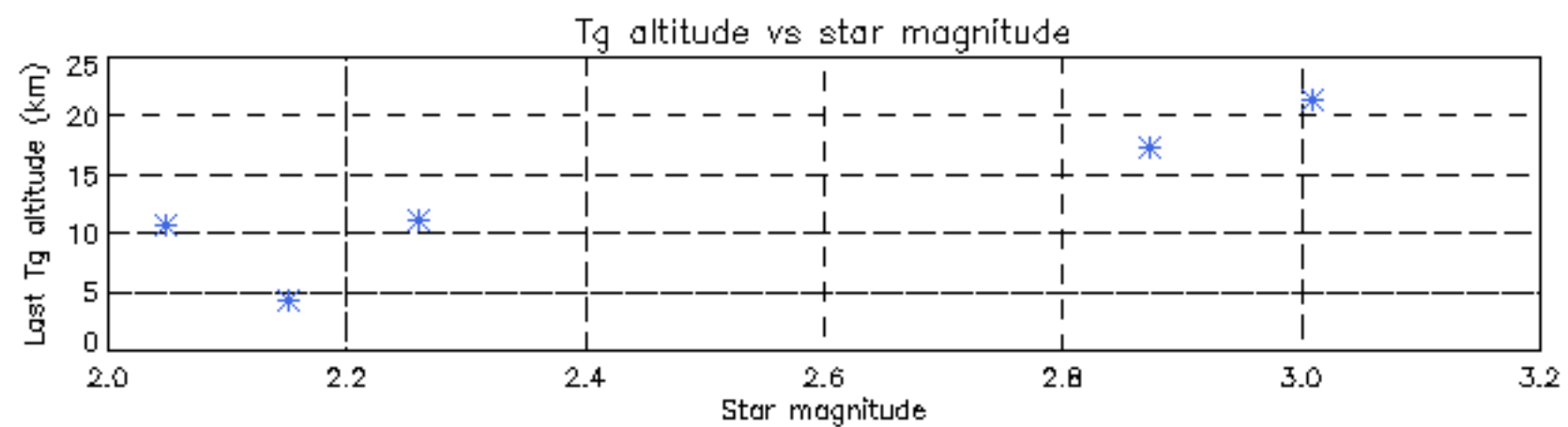
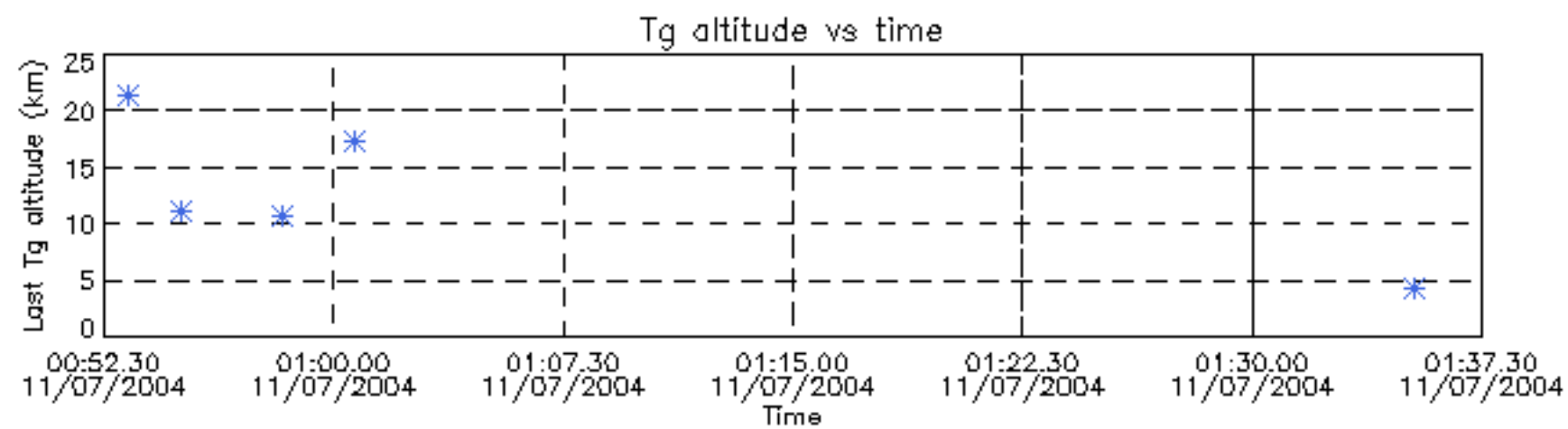
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL_0PNPDE20040701_012416_000043092028_00131_12209_0074.N1

1;	-831.6;	01-JUL-2004	01:24:16;	Dark	;	47.5;	165;	34Gam Eri	;	2.95;	3200;occ;	95;	9;	12209
2;	-494.6;	01-JUL-2004	01:29:53;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12209
3;	-163.9;	01-JUL-2004	01:35:23;	Dark	;	77.5;	52;	16Bet Cet	;	2.04;	4500;occ;	155;	0;	12209
4;	36.9;	01-JUL-2004	01:38:44;	Dark	;	53.0;	9;	Alp Eri	;	0.45;	24000;occ;	106;	0;	12210
5;	314.6;	01-JUL-2004	01:43:22;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	12210
6;	489.7;	01-JUL-2004	01:46:17;	Dark	;	58.5;	63;	Bet Gru	;	2.15;	2800;occ;	117;	0;	12210
7;	585.8;	01-JUL-2004	01:47:53;	Dark	;	86.5;	18;	24Alp PsA	;	1.17;	9700;occ;	173;	0;	12210
8;	746.2;	01-JUL-2004	01:50:33;	Dark	;	44.0;	45;	Alp Pav	;	1.94;	26000;occ;	88;	0;	12210
9;	975.1;	01-JUL-2004	01:54:22;	Dark	;	40.0;	141;	Bet Ara	;	2.84;	4600;occ;	80;	0;	12210
10;	1061.4;	01-JUL-2004	01:55:49;	Dark	;	40.0;	147;	Alp Ara	;	2.88;	26000;occ;	80;	0;	12210
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16;	1744.8;	01-JUL-2004	02:07:12;	Bright;		41.0;	98;	13Zet Oph	;	2.57;	30000;occ;	82;	0;	12210
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24;	2948.0;	01-JUL-2004	02:27:15;	Bright;		39.0;	119;	14Eta Dra	;	2.73;	4700;occ;	78;	0;	12210
25;	3190.4;	01-JUL-2004	02:31:18;	Bright;		36.0;	60;	7Bet UMi	;	2.08;	3950;occ;	72;	0;	12210
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3;	-1976.0;	01-JUL-2004	02:45:47;	Bright;		46.5;	160;	23Gam Per	;	2.93;	4700;occ;	93;	0;	12210
4;	-1871.6;	01-JUL-2004	02:47:31;	Bright;		36.0;	175;	39Del Per	;	3.01;	19400;occ;	72;	0;	12210
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7;	-1355.5;	01-JUL-2004	02:56:08;	Dark	;	66.5;	50;	13Alp Ari	;	2.01;	4250;occ;	133;	0;	12210
8;	-1058.3;	01-JUL-2004	03:01:05;	Dark	;	58.0;	94;	92Alp Cet	;	2.53;	3100;occ;	116;	0;	12210
9;	-835.8;	01-JUL-2004	03:04:47;	Dark	;	46.5;	165;	34Gam Eri	;	2.95;	3200;occ;	93;	0;	12210
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11;	-330.3;	01-JUL-2004	03:13:13;	Dark	;	40.5;	157;	The1Eri	;	2.91;	9300;occ;	81;	0;	12210
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14;	314.9;	01-JUL-2004	03:23:58;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	12211
15;	490.7;	01-JUL-2004	03:26:54;	Dark	;	65.5;	63;	Bet Gru	;	2.15;	2800;occ;	131;	0;	12211
16;	587.9;	01-JUL-2004	03:28:31;	Dark	;	82.5;	18;	24Alp PsA	;	1.17;	9700;occ;	165;	0;	12211
17;	747.1;	01-JUL-2004	03:31:10;	Dark	;	44.5;	45;	Alp Pav	;	1.94;	26000;occ;	89;	0;	12211
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19;	1062.4;	01-JUL-2004	03:36:25;	Dark	;	41.0;	147;	Alp Ara	;	2.88;	26000;occ;	82;	0;	12211
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21;	1267.9;	01-JUL-2004	03:39:51;	Dark	;	46.5;	25;	35Lam Sco	;	1.62;	28000;occ;	93;	0;	12211
22;	1355.5;	01-JUL-2004	03:41:19;	Dark	;	46.0;	116;	19Del Sgr	;	2.70;	4100;occ;	92;	0;	12211
23;	1480.2;	01-JUL-2004	03:43:23;	Bright;		46.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	92;	0;	12211
24;	1642.0;	01-JUL-2004	03:46:05;	Bright;		39.0;	86;	35Eta Oph	;	2.43;	10200;occ;	78;	0;	12211
25;	1746.8;	01-JUL-2004	03:47:50;	Bright;		39.0;	98;	13Zet Oph	;	2.57;	30000;occ;	78;	0;	12211
26;	1877.8;	01-JUL-2004	03:50:01;	Bright;		39.5;	120;	1Del Oph	;	2.73;	3200;occ;	79;	0;	12211
27;	1979.9;	01-JUL-2004	03:51:43;	Bright;		38.5;	126;	60Bet Oph	;	2.77;	4250;occ;	77;	0;	12211
28;	2120.0;	01-JUL-2004	03:54:03;	Bright;		39.0;	59;	55Alp Oph	;	2.08;	8900;occ;	78;	0;	12211
29;	2282.2;	01-JUL-2004	03:56:45;	Bright;		37.0;	127;	27Bet Her	;	2.78;	4700;occ;	74;	0;	12211
30;	2446.6;	01-JUL-2004	03:59:30;	Bright;		39.0;	133;	40Zet Her	;	2.81;	6000;occ;	78;	0;	12211
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32;	2806.7;	01-JUL-2004	04:05:30;	Bright;		38.5;	130;	23Bet Dra	;	2.80;	5800;occ;	77;	0;	12211
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34;	3190.9;	01-JUL-2004	04:11:54;	Bright;		33.5;	60;	7Bet UMi	;	2.08;	3950;occ;	67;	0;	12211
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29;	2733.3;	22-JUL-2004	04:44:34;	Bright;	40.0;	144;	18Del Cyg	;	2.86;	11000;occ;	80;	0;	12512	
30;	2843.4;	22-JUL-2004	04:46:24;	Bright;	47.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	95;	0;	12512	
31;	2995.2;	22-JUL-2004	04:48:56;	Bright;	38.5;	119;	14Eta Dra	;	2.73;	4700;occ;	77;	0;	12512	
32;	3154.4;	22-JUL-2004	04:51:35;	Bright;	44.0;	89;	5Alp Cep	;	2.45;	8000;occ;	88;	0;	12512	
33;	3440.9;	22-JUL-2004	04:56:22;	Bright;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	12512	
34;	3584.4;	22-JUL-2004	04:58:45;	Bright;	53.5;	74;	11Bet Cas	;	2.27;	6600;occ;	107;	0;	12512	
35;	3683.9;	22-JUL-2004	05:00:25;	Bright;	3.5;	76;	27Gam Cas	;	2.30;	30000;occ;	7;	0;	12512	
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7;	-1294.9;	22-JUL-2004	05:18:02;	Dark	;	53.0;	13;	87Alp Tau	;	0.87;	3800;occ;	106;	0;	12512
8;	-1167.4;	22-JUL-2004	05:20:09;	Dark	;	39.0;	27;	24Gam Ori	;	1.64;	26000;occ;	78;	0;	12512
9;	-1051.9;	22-JUL-2004	05:22:05;	Dark	;	39.0;	30;	46Eps Ori	;	1.69;	30000;occ;	78;	0;	12512
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12;	-513.1;	22-JUL-2004	05:31:04;	Dark	;	40.5;	108;	Alp Col	;	2.65;	15200;occ;	81;	0;	12512
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18;	753.4;	22-JUL-2004	05:52:10;	Dark	;	53.0;	63;	Bet Gru	;	2.15;	2800;occ;	106;	0;	12513
19;	839.1;	22-JUL-2004	05:53:36;	Dark	;	47.5;	31;	Alp Gru	;	1.73;	15200;occ;	95;	0;	12513
20;	1012.6;	22-JUL-2004	05:56:29;	Dark	;	84.5;	18;	24Alp PsA	;	1.17;	9700;occ;	169;	0;	12513
21;	1262.5;	22-JUL-2004	06:00:39;	Dark	;	40.5;	178;	Iot1Sco	;	3.02;	6550;occ;	81;	0;	12513
22;	1337.9;	22-JUL-2004	06:01:55;	Dark	;	43.5;	38;	20Eps Sgr	;	1.84;	11000;occ;	87;	0;	12513
23;	1451.5;	22-JUL-2004	06:03:48;	Bright;	40.0;	57;	34Sig Sgr	;	2.07;	26000;occ;	80;	0;	12513	
24;	1556.0;	22-JUL-2004	06:05:33;	Bright;	65.0;	142;	49Del Cap	;	2.85;	8900;occ;	130;	0;	12513	
25;	2010.3;	22-JUL-2004	06:13:07;	Bright;	38.0;	126;	60Bet Oph	;	2.77;	4250;occ;	76;	0;	12513	
26;	2144.9;	22-JUL-2004	06:15:22;	Bright;	40.0;	168;	17Zet Aql	;	2.99;	11000;occ;	80;	0;	12513	
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28;	2733.4;	22-JUL-2004	06:25:10;	Bright;	40.0;	144;	18Del Cyg	;	2.86;	11000;occ;	80;	0;	12513	
29;	2843.1;	22-JUL-2004	06:27:00;	Bright;	47.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	95;	0;	12513	
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31;	3154.2;	22-JUL-2004	06:32:11;	Bright;	43.5;	89;	5Alp Cep	;	2.45;	8000;occ;	87;	0;	12513	
32;	3441.1;	22-JUL-2004	06:36:58;	Bright;	38.0;	49;	1Alp UMi	;	1.99;	6300;occ;	76;	0;	12513	
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 5;-1823.1; 22-JUL-2004 06:49:50; Bright; 69.0; 73; 57Gam1And ; 2.26; 13100;occ; 138; 0;12513
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 16; 214.8; 22-JUL-2004 07:23:48; Dark ; 56.0; 9; Alp Eri ; 0.45; 24000;occ; 112; 0;12514
 17; 389.5; 22-JUL-2004 07:26:42; Dark ; 40.5; 135; Bet Hyi ; 2.82; 5800;occ; 81; 0;12514
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 20; 839.8; 22-JUL-2004 07:34:12; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;12514
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 23; 1338.0; 22-JUL-2004 07:42:31; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;12514
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 23; -144.1; 22-JUL-2004 08:58:24; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;12514
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