

GOMOS Daily Report 20-JUN-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	25JUN2004 06:32:12
Data source version	GOMOS/4.02
Start time of products	20-JUN-2004 (20JUN2004 00:00:00)
Stop time of products	21-JUN-2004 (21JUN2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	35
Nb of prods with errors	0

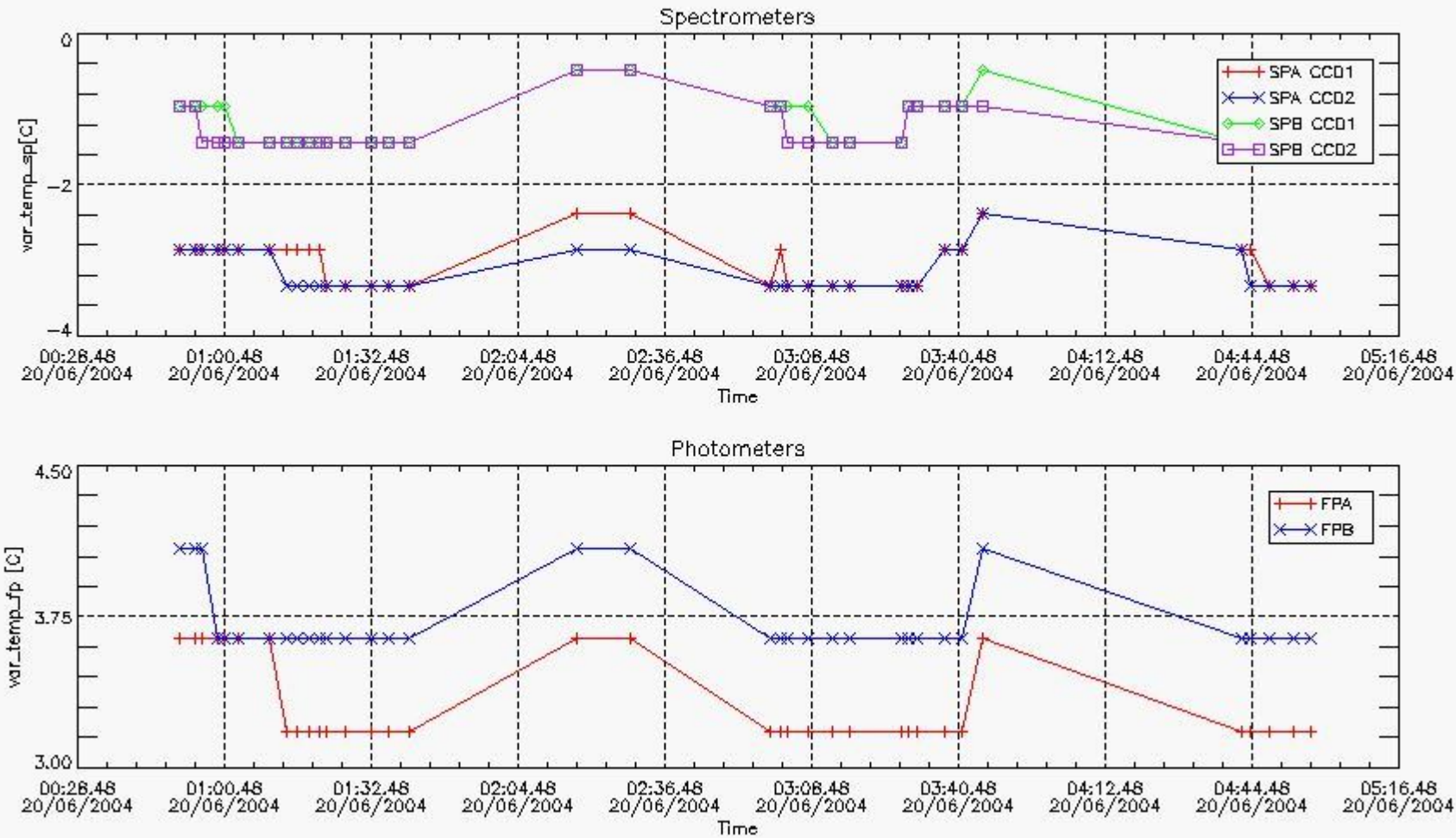
2. Summary of products arrived in PCF

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_1PNPDE20040620_005109_000000552027_00475_12052_0002.N1	20-JUN-2004 00:51:09	Dark	54.500	31	Alp Gru	1.7340	15200.	109	12052	No
GOM_TRA_1PNPDE20040620_005432_000000472027_00475_12052_0003.N1	20-JUN-2004 00:54:32	Twilight	47.000	45	Alp Pav	1.9400	26000.	94	12052	No
GOM_TRA_1PNPDE20040620_005605_000000512027_00475_12052_0004.N1	20-JUN-2004 00:56:05	Twilight	50.500	43	Alp TrA	1.9100	4250.0	101	12052	No
GOM_TRA_1PNPDE20040620_005914_000000412027_00475_12052_0005.N1	20-JUN-2004 00:59:14	Bright	41.000	141	Bet Ara	2.8400	4600.0	82	12052	No
GOM_TRA_1PNPDE20040620_010038_000000402027_00475_12052_0006.N1	20-JUN-2004 01:00:38	Bright	40.000	147	Alp Ara	2.8770	26000.	80	12052	No
GOM_TRA_1PNPDE20040620_010357_000000522027_00475_12052_0008.N1	20-JUN-2004 01:03:57	Bright	51.500	38	20Eps Sgr	1.8360	11000.	103	12052	No
GOM_TRA_1PNPDE20040620_011031_000000402027_00475_12052_0011.N1	20-JUN-2004 01:10:31	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	12052	No
GOM_TRA_1PNPDE20040620_011421_000000392027_00475_12052_0013.N1	20-JUN-2004 01:14:21	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	12052	No
GOM_TRA_1PNPDE20040620_011644_000000432027_00475_12052_0014.N1	20-JUN-2004 01:16:44	Bright	43.000	126	60Bet Oph	2.7700	4250.0	86	12052	No
GOM_TRA_1PNPDE20040620_011911_000000442027_00475_12052_0015.N1	20-JUN-2004 01:19:11	Bright	44.000	59	55Alp Oph	2.0800	8900.0	88	12052	No
GOM_TRA_1PNPDE20040620_012123_000000412027_00475_12052_0016.N1	20-JUN-2004 01:21:23	Bright	41.000	127	27Bet Her	2.7810	4700.0	82	12052	No
GOM_TRA_1PNPDE20040620_012307_000000392027_00475_12052_0017.N1	20-JUN-2004 01:23:07	Bright	38.500	67	5Alp CrB	2.2210	11000.	77	12052	No
GOM_TRA_1PNPDE20040620_012718_000000372027_00475_12052_0018.N1	20-JUN-2004 01:27:18	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	12052	No
GOM_TRA_1PNPDE20040620_013245_000000392027_00475_12052_0019.N1	20-JUN-2004 01:32:45	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	12052	No
GOM_TRA_1PNPDE20040620_013624_000000382027_00475_12052_0020.N1	20-JUN-2004 01:36:24	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	12052	No
GOM_TRA_1PNPDE20040620_014055_000000372027_00475_12052_0021.N1	20-JUN-2004 01:40:55	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	12052	No
GOM_TRA_1PNPDE20040620_021727_000000632027_00475_12052_0000.N1	20-JUN-2004 02:17:27	Dark	63.000	52	16Bet Cet	2.0370	4500.0	126	12052	No
GOM_TRA_1PNPDE20040620_022912_000000782027_00476_12053_0001.N1	20-JUN-2004 02:29:12	Dark	78.000	18	24Alp PsA	1.1660	9700.0	156	12053	No
GOM_TRA_1PNPDE20040620_025947_000000422027_00476_12053_0015.N1	20-JUN-2004 02:59:47	Bright	41.500	59	55Alp Oph	2.0800	8900.0	83	12053	No
GOM_TRA_1PNPDE20040620_030159_000000382027_00476_12053_0016.N1	20-JUN-2004 03:01:59	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	12053	No
GOM_TRA_1PNPDE20040620_030341_000000392027_00476_12053_0017.N1	20-JUN-2004 03:03:41	Bright	38.500	67	5Alp CrB	2.2210	11000.	77	12053	No
GOM_TRA_1PNPDE20040620_030754_000000372027_00476_12053_0018.N1	20-JUN-2004 03:07:54	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	12053	No
GOM_TRA_1PNPDE20040620_031321_000000352027_00476_12053_0019.N1	20-JUN-2004 03:13:21	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	12053	No
GOM_TRA_1PNPDE20040620_031659_000000362027_00476_12053_0020.N1	20-JUN-2004 03:16:59	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	12053	No
GOM_TRA_1PNPDE20040620_032818_000000522027_00476_12053_0000.N1	20-JUN-2004 03:28:18	Bright	52.000	74	11Bet Cas	2.2680	6600.0	104	12053	No
GOM_TRA_1PNPDE20040620_032950_000000462027_00476_12053_0001.N1	20-JUN-2004 03:29:50	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	12053	No
GOM_TRA_1PNPDE20040620_033150_000000372027_00476_12053_0002.N1	20-JUN-2004 03:31:50	Bright	36.500	160	23Gam Per	2.9300	4700.0	73	12053	No
GOM_TRA_1PNPDE20040620_033742_000000612027_00476_12053_0003.N1	20-JUN-2004 03:37:42	Twilight	61.000	53	43Bet And	2.0480	3300.0	122	12053	No
GOM_TRA_1PNPDE20040620_034123_000000532027_00476_12053_0004.N1	20-JUN-2004 03:41:23	Twilight	53.000	50	13Alp Ari	2.0070	4250.0	106	12053	No
GOM_TRA_1PNPDE20040620_034610_000000422027_00476_12053_0005.N1	20-JUN-2004 03:46:10	Twilight	41.500	94	92Alp Cet	2.5260	3100.0	83	12053	No
GOM_TRA_1PNPDE20040620_044236_000000392027_00477_12054_0023.N1	20-JUN-2004 04:42:36	Bright	39.000	127	27Bet Her	2.7810	4700.0	78	12054	No
GOM_TRA_1PNPDE20040620_044421_000000382027_00477_12054_0024.N1	20-JUN-2004 04:44:21	Bright	37.500	67	5Alp CrB	2.2210	11000.	75	12054	No
GOM_TRA_1PNPDE20040620_044830_000000382027_00477_12054_0025.N1	20-JUN-2004 04:48:30	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	12054	No
GOM_TRA_1PNPDE20040620_045357_000000392027_00477_12054_0026.N1	20-JUN-2004 04:53:57	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	12054	No
GOM_TRA_1PNPDE20040620_045736_000000362027_00477_12054_0027.N1	20-JUN-2004 04:57:36	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	12054	No

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



4. Overview of dark signal processing per product

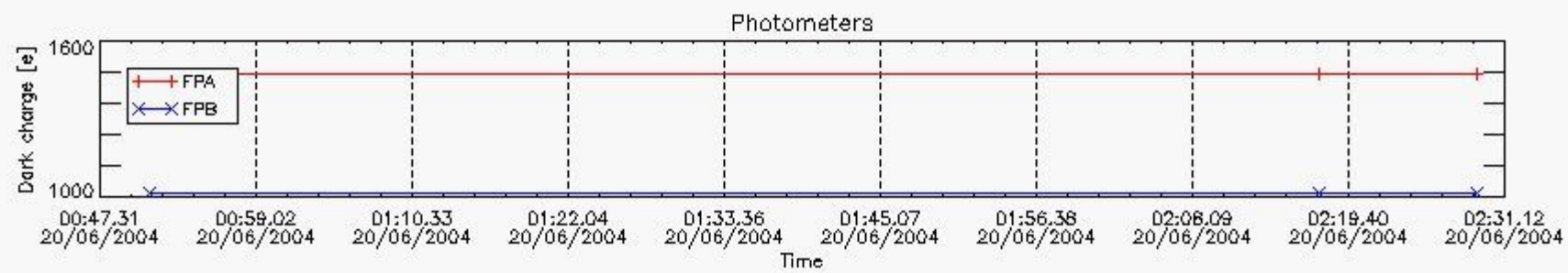
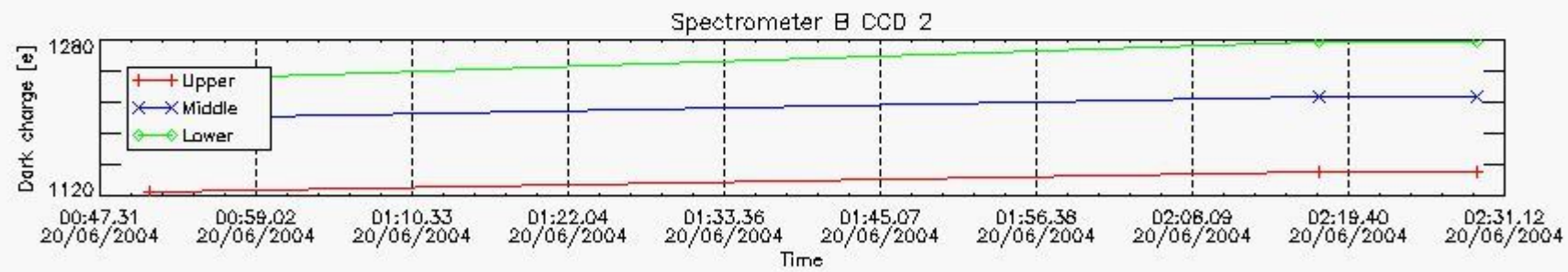
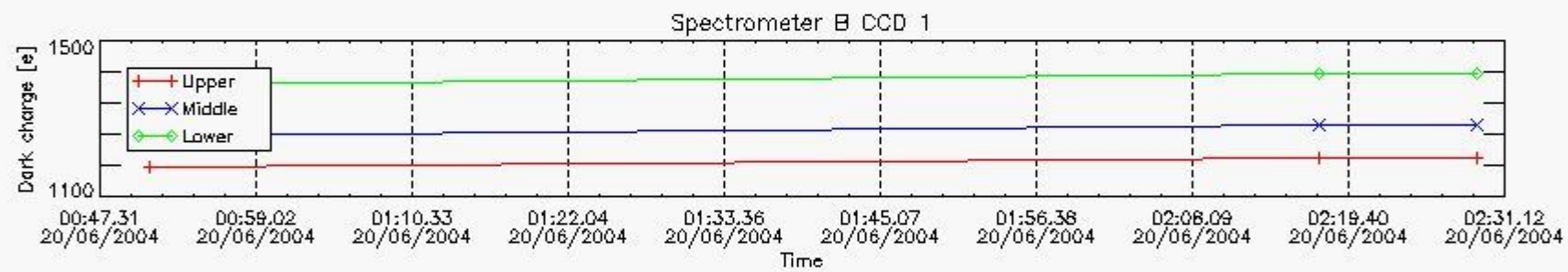
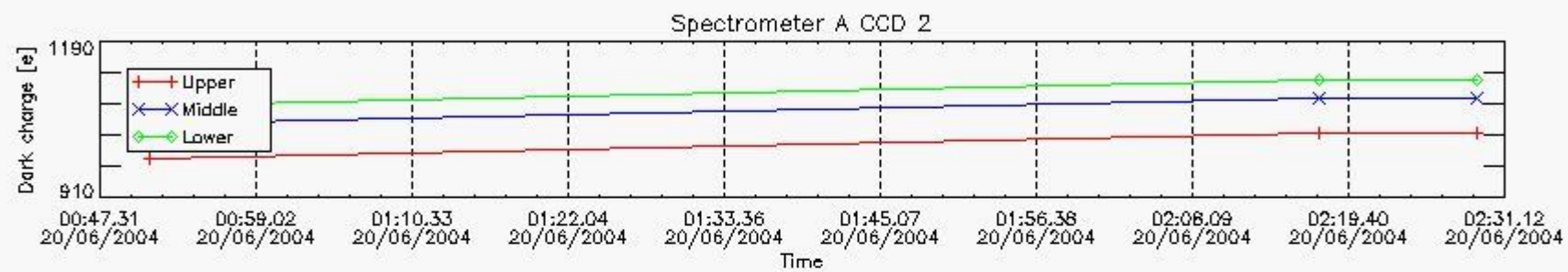
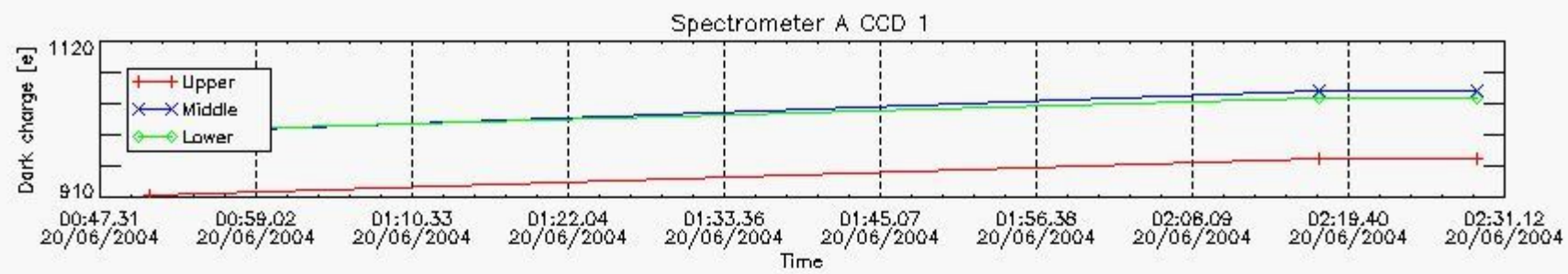
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20040620_021727_000000632027_00475_12052_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20040620_022912_000000782027_00476_12053_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040620_025947_000000422027_00476_12053_0015.N1	DC map used (0)
GOM_TRA_1PNPDE20040620_030159_000000382027_00476_12053_0016.N1	DC map used (0)
GOM_TRA_1PNPDE20040620_030341_000000392027_00476_12053_0017.N1	DC map used (0)
GOM_TRA_1PNPDE20040620_030754_000000372027_00476_12053_0018.N1	DC map used (0)
GOM_TRA_1PNPDE20040620_031321_000000352027_00476_12053_0019.N1	DC map used (0)
GOM_TRA_1PNPDE20040620_031659_000000362027_00476_12053_0020.N1	DC map used (0)

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



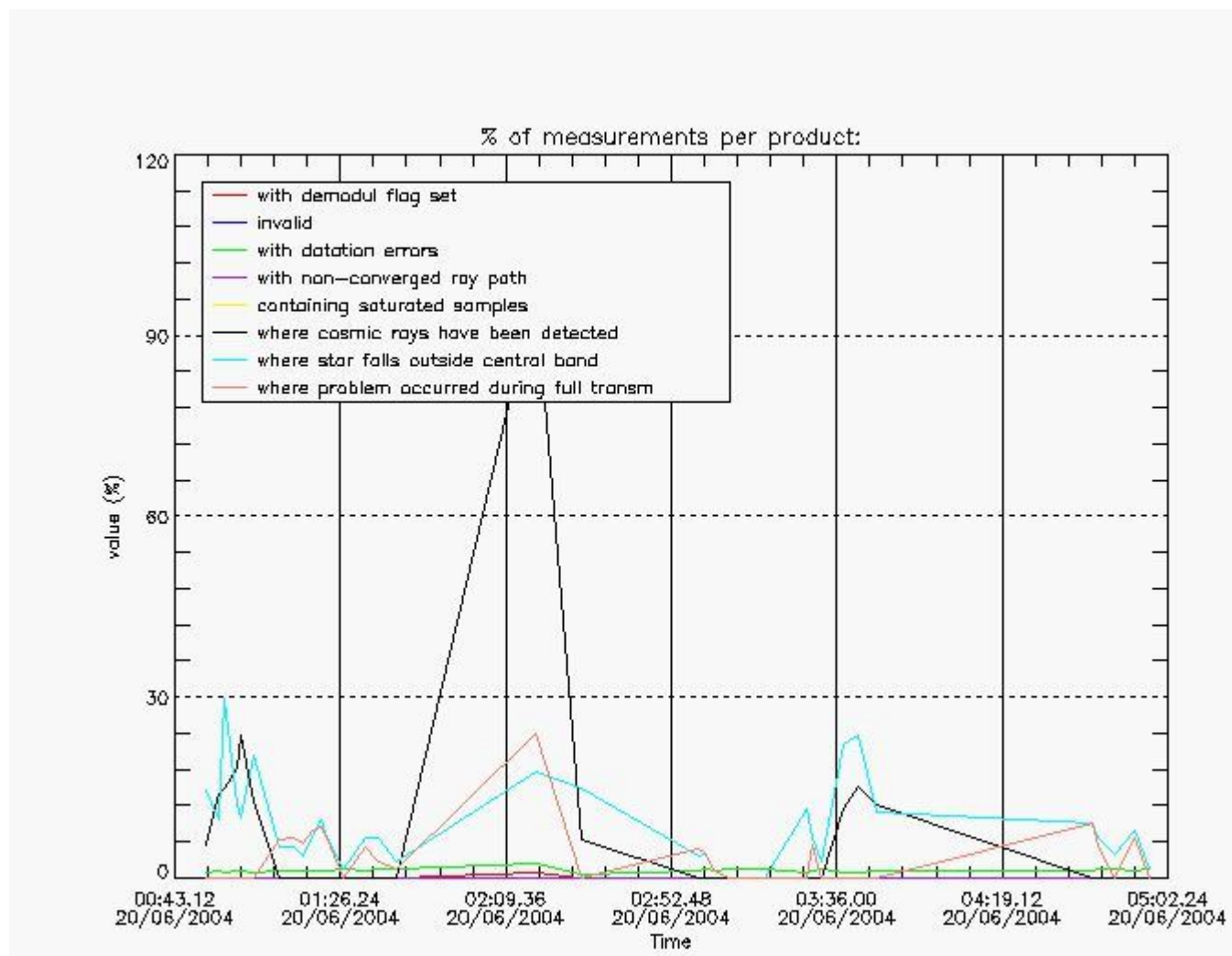
5. Demodulation flag and quality information monitoring

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.

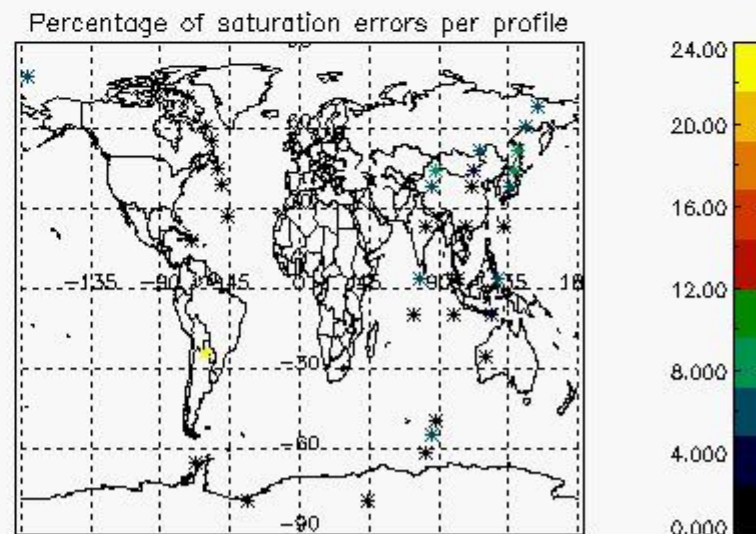
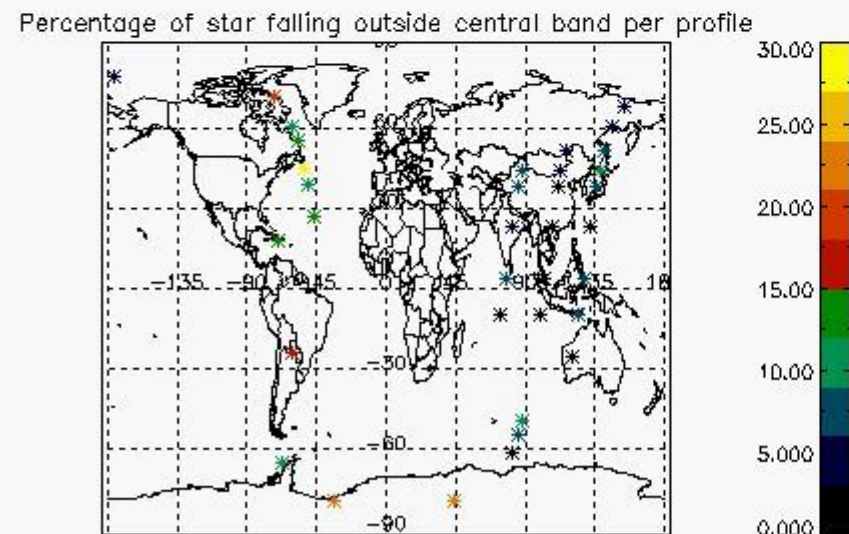
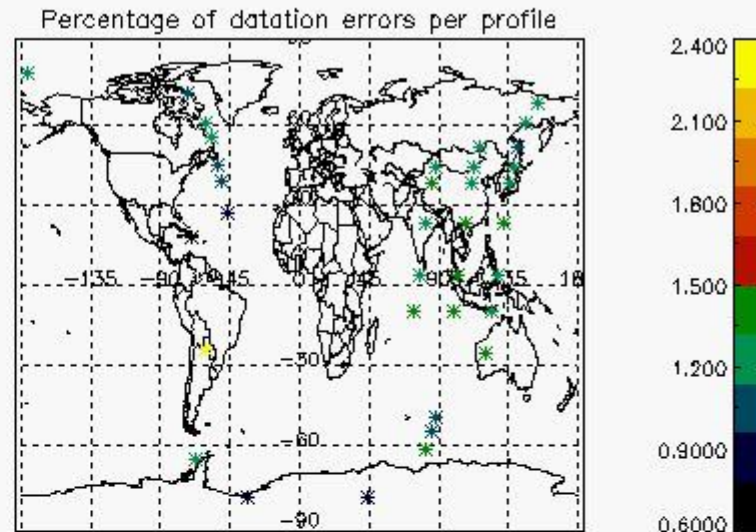
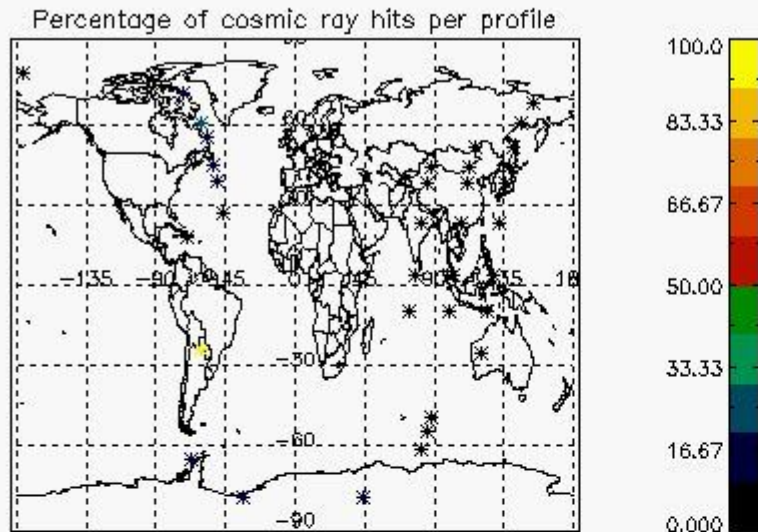
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	2.85714 %
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)



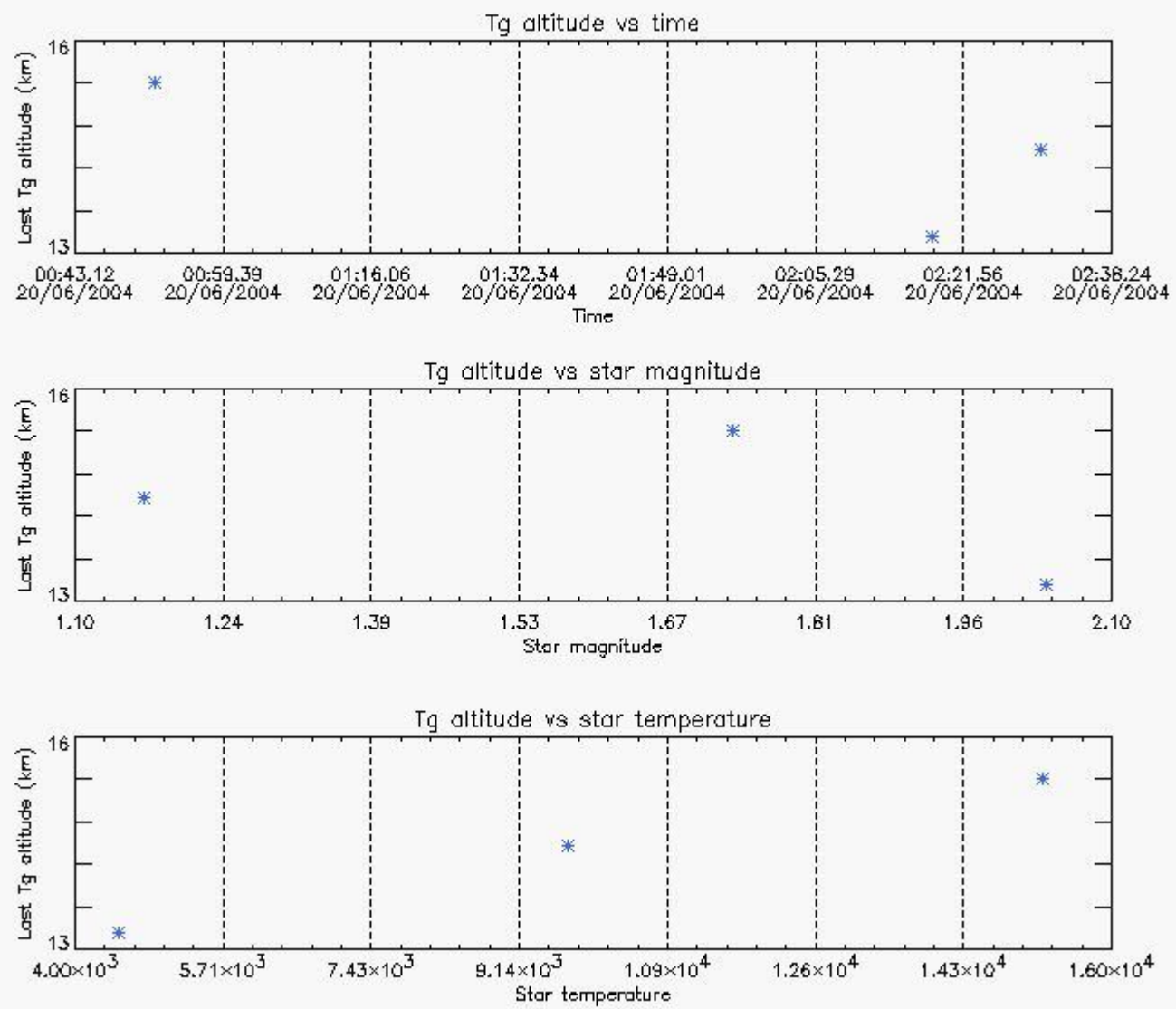
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.364	21.471	12.217
St. deviation:	1.0881	3.7865	4.9494
Maximum:	15.401	28.706	18.052
Minimum:	13.231	11.566	5.8907
Number of data:	3.0000	27.000	5.0000

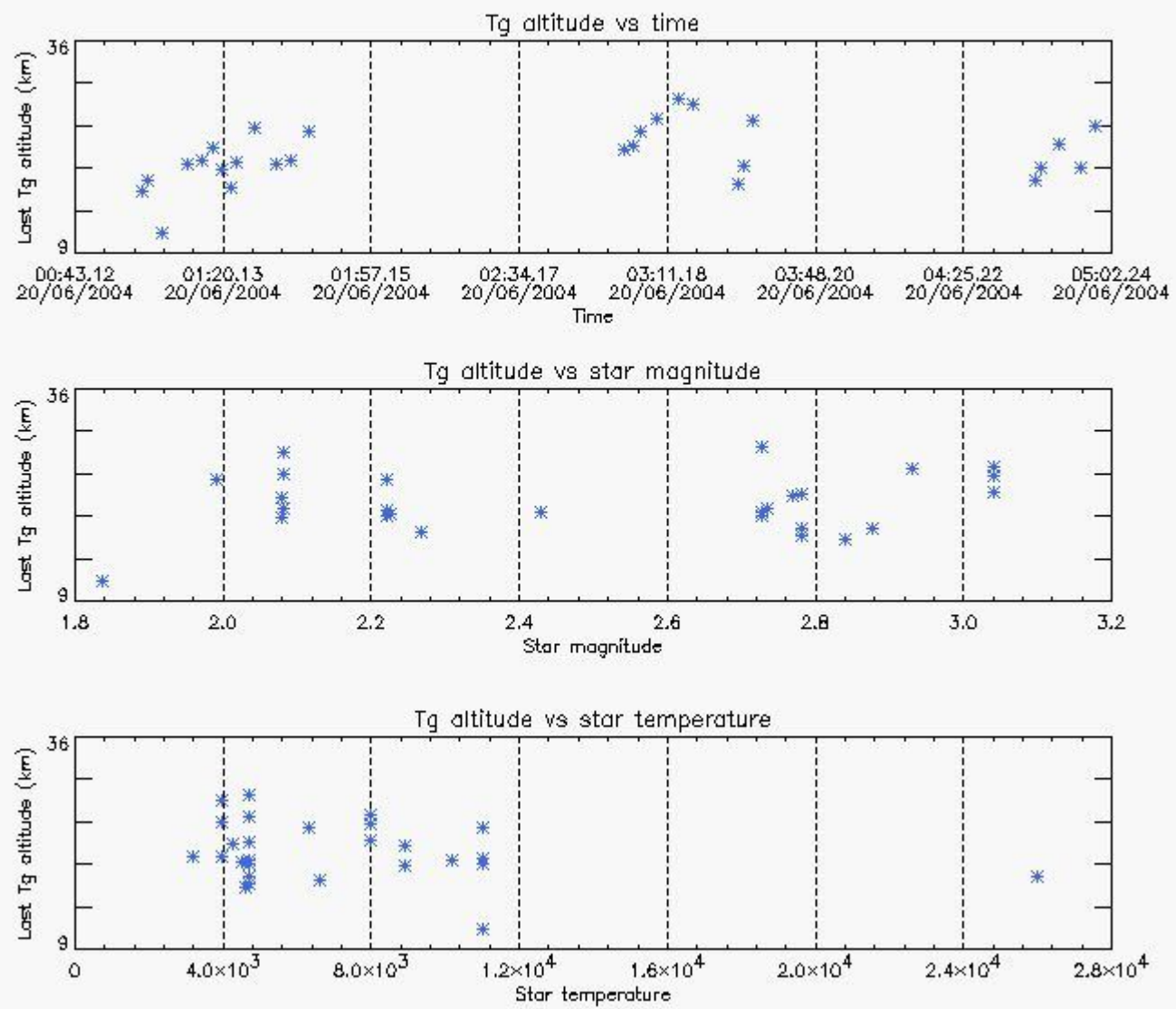
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



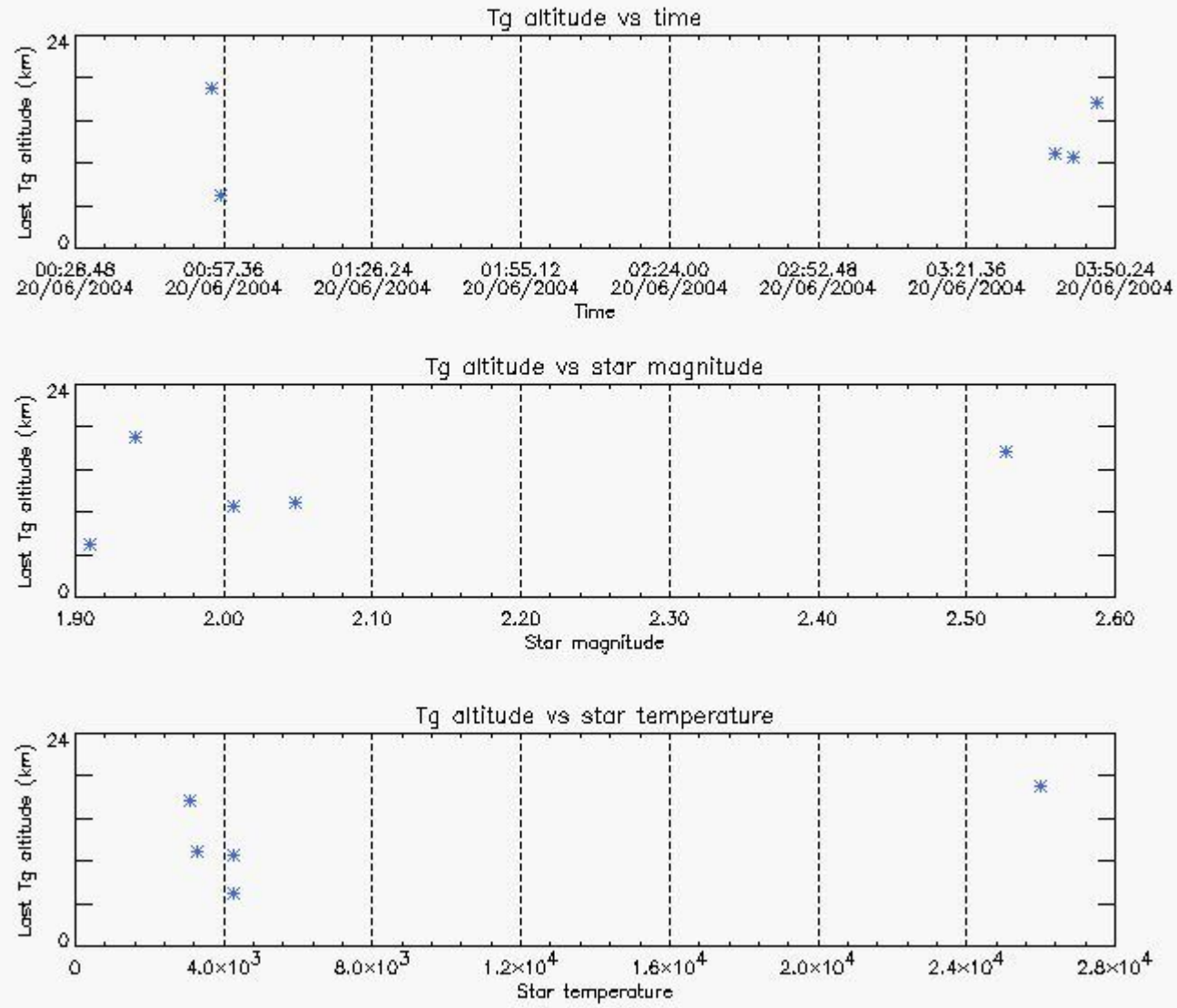
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

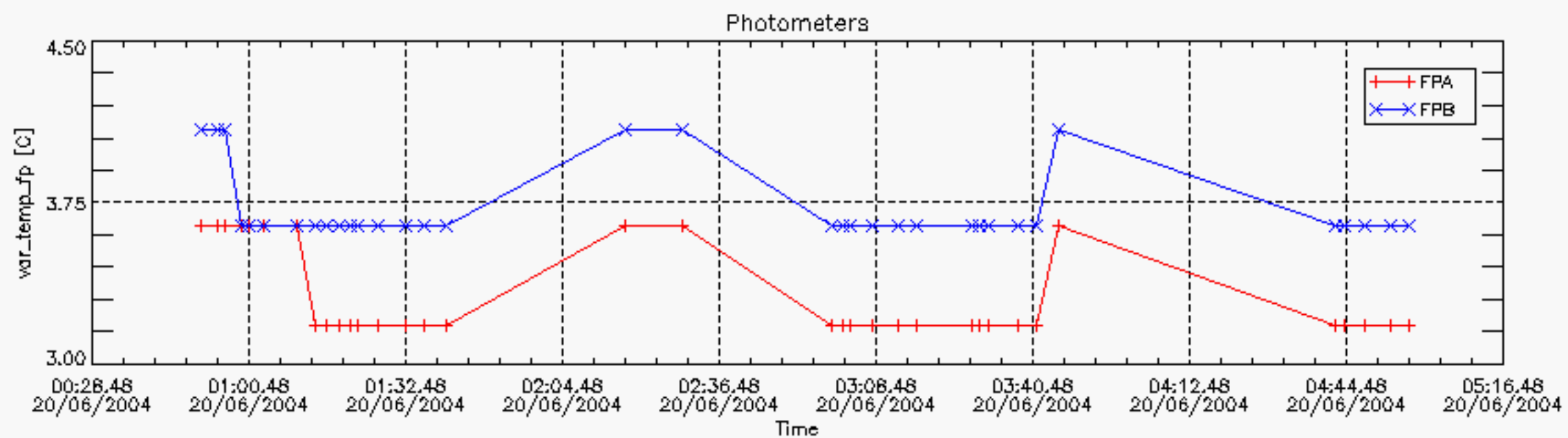
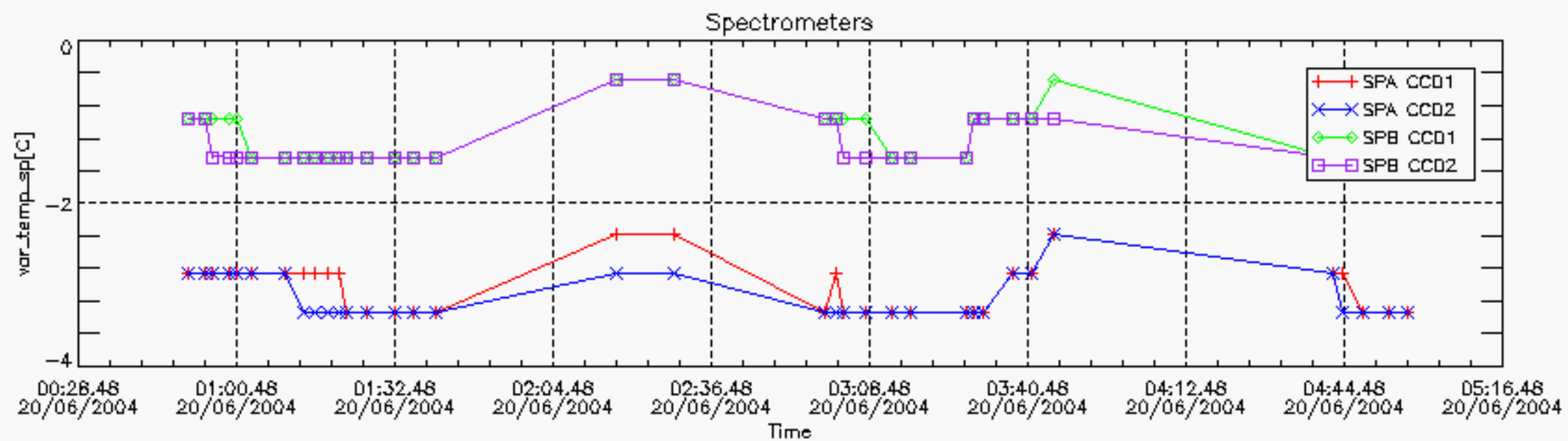
Tangent altitude at which the star is lost

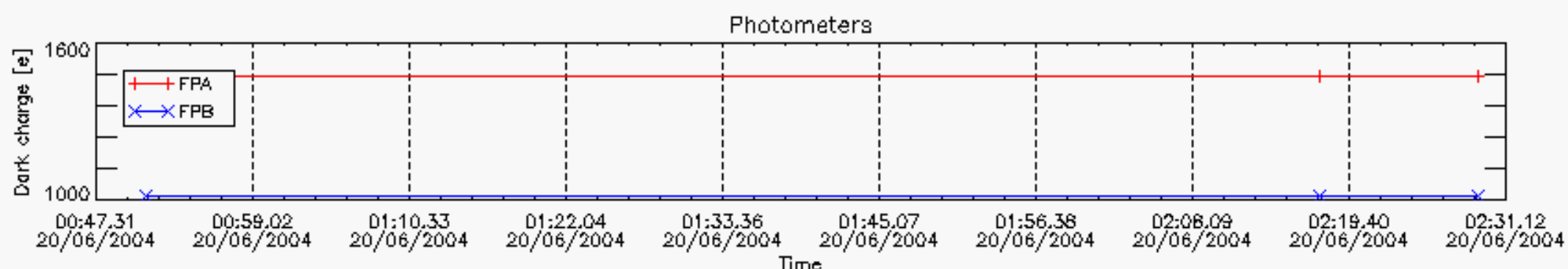
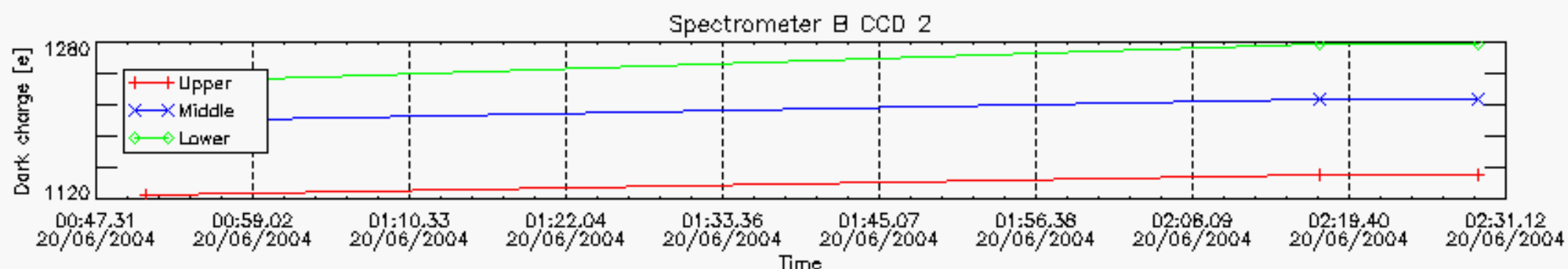
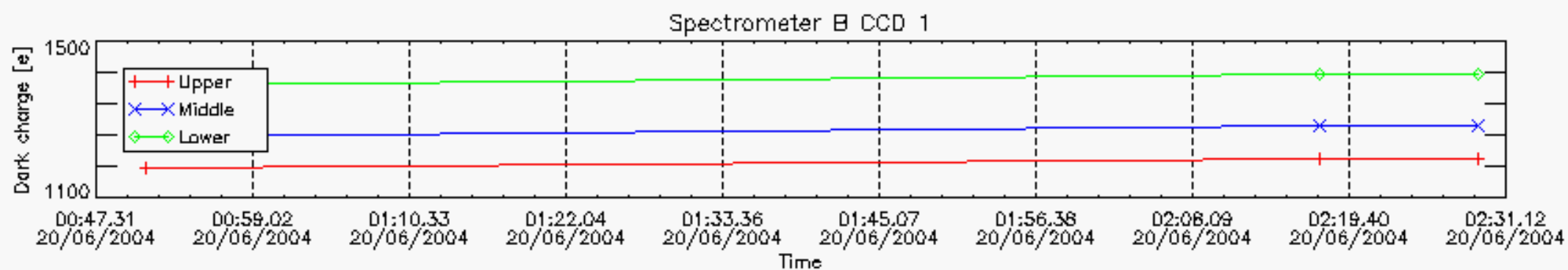
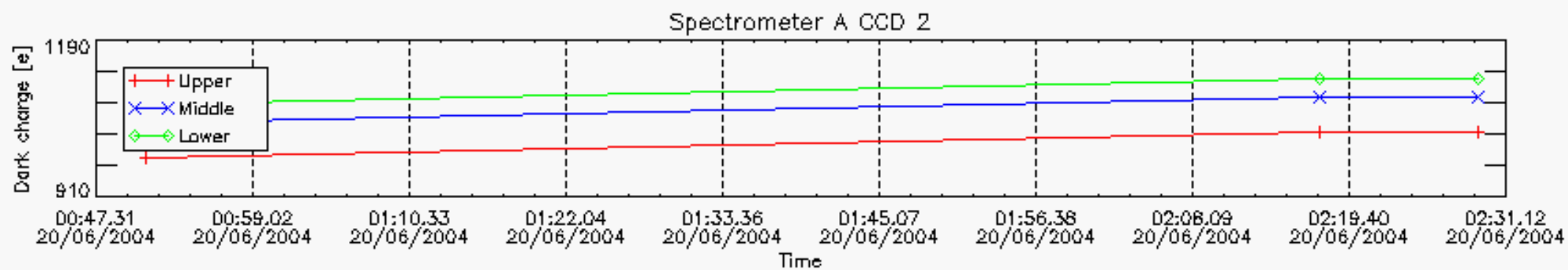
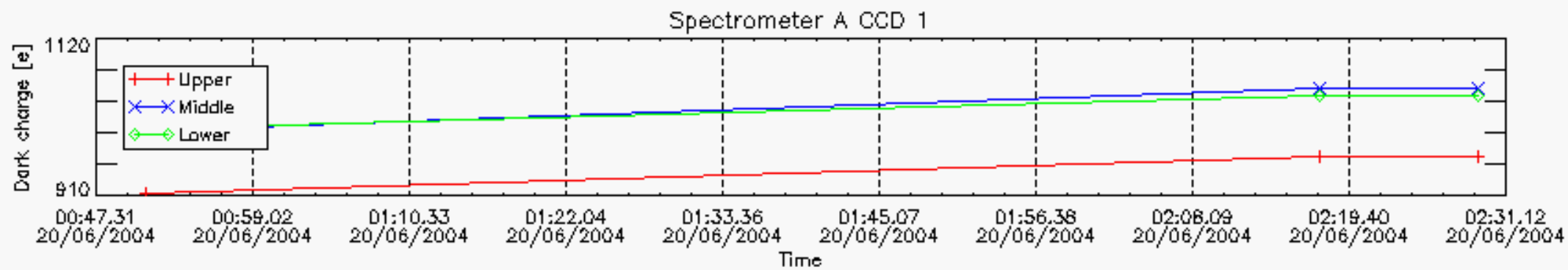


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

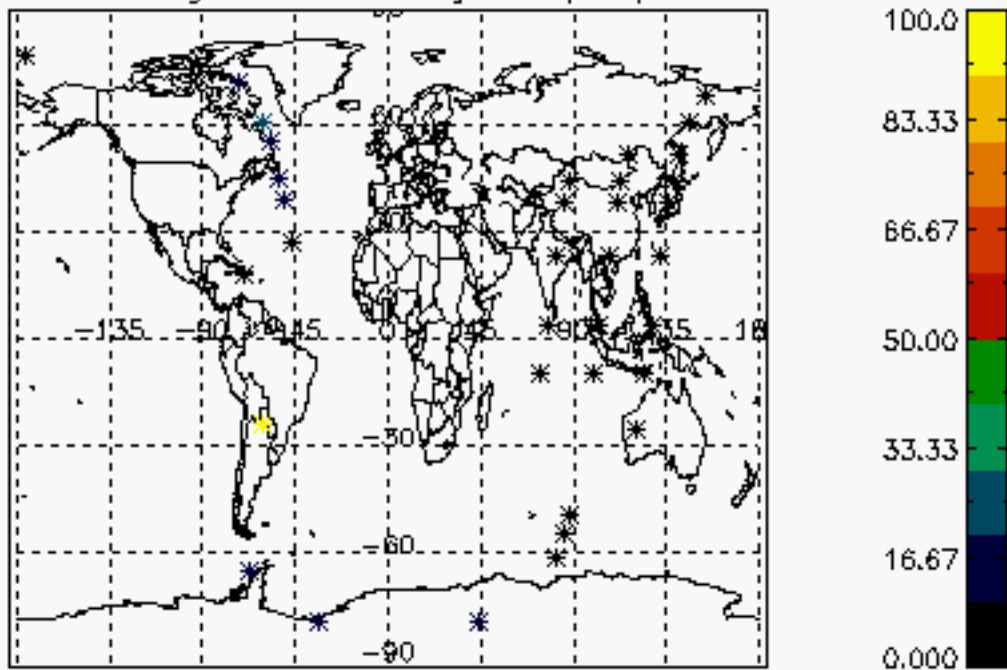
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1464.0	1449.0	1460.8	1446.4
St. deviation:	3.5816	4.5153	7.3968	8.4693
Maximum:	1481.0	1466.0	1513.0	1499.0
Minimum:	1451.0	1439.0	1452.0	1430.0
Number of data:	4850.0	4850.0	29850.	29850.

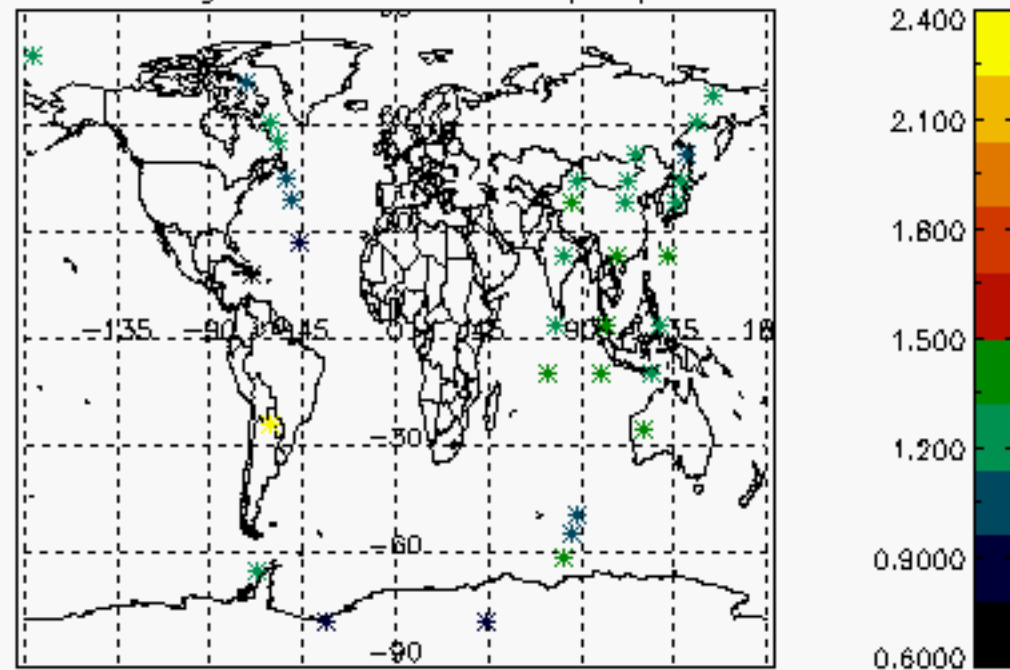




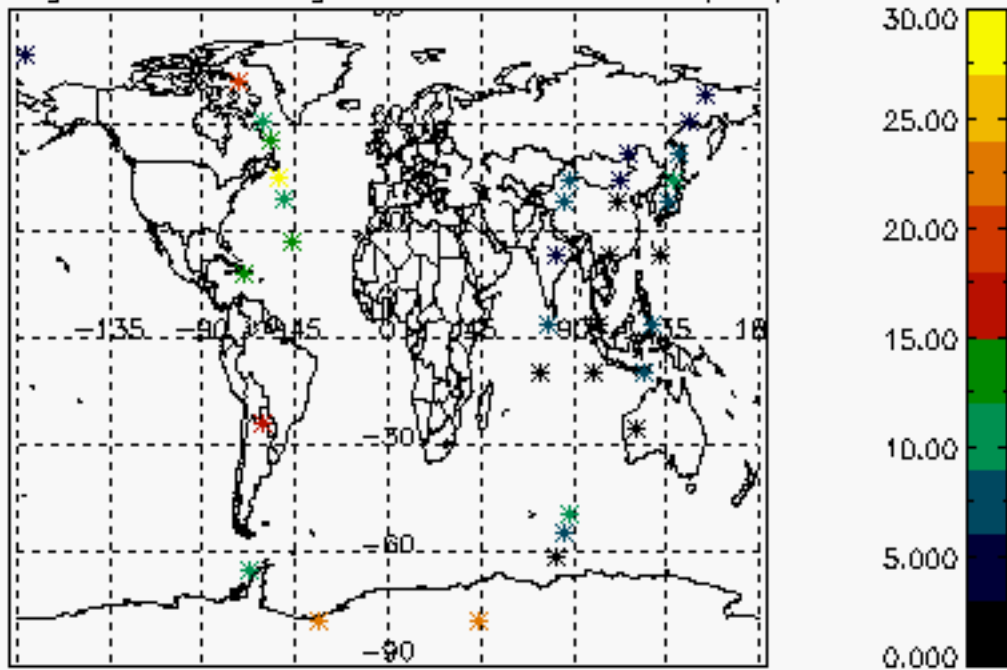
Percentage of cosmic ray hits per profile



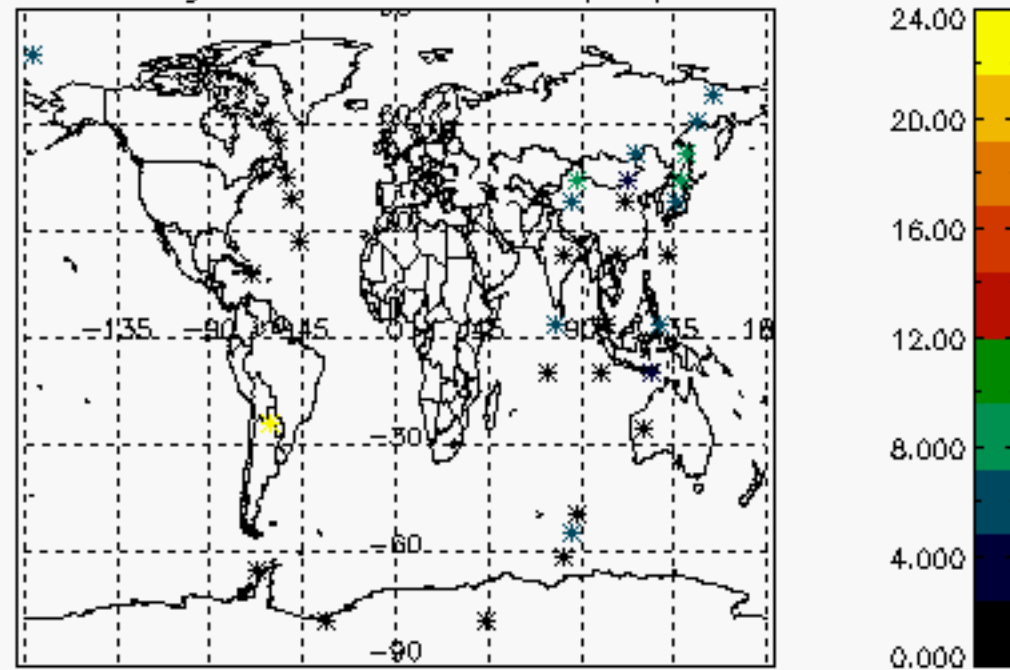
Percentage of datation errors per profile



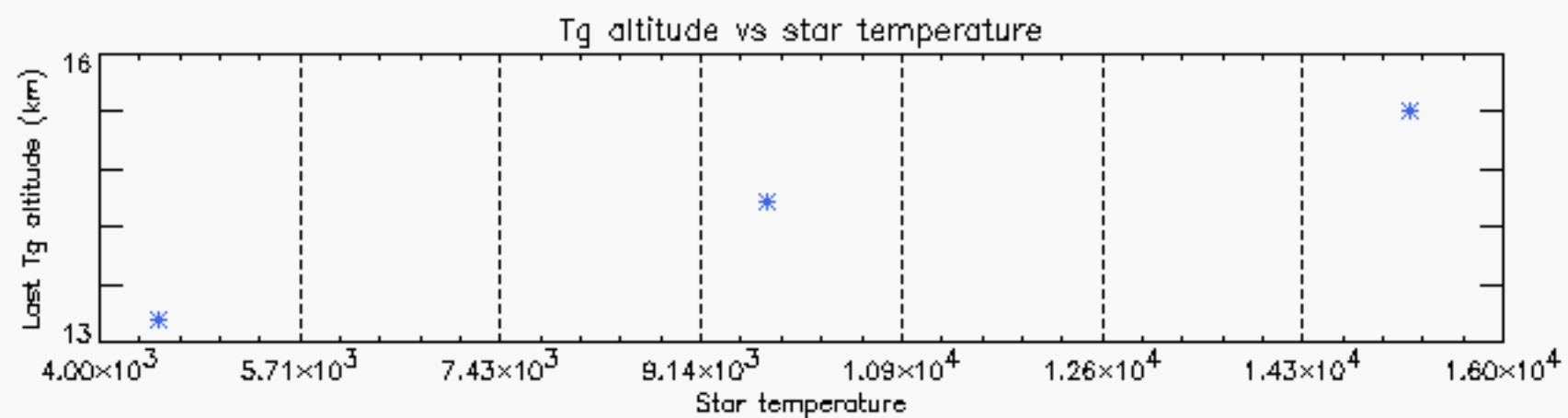
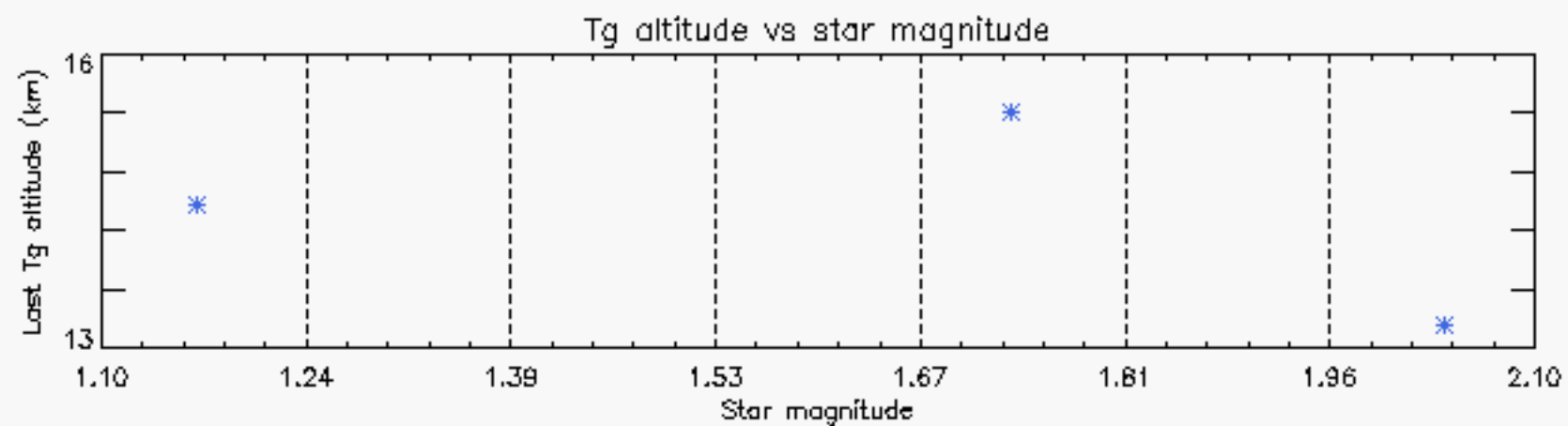
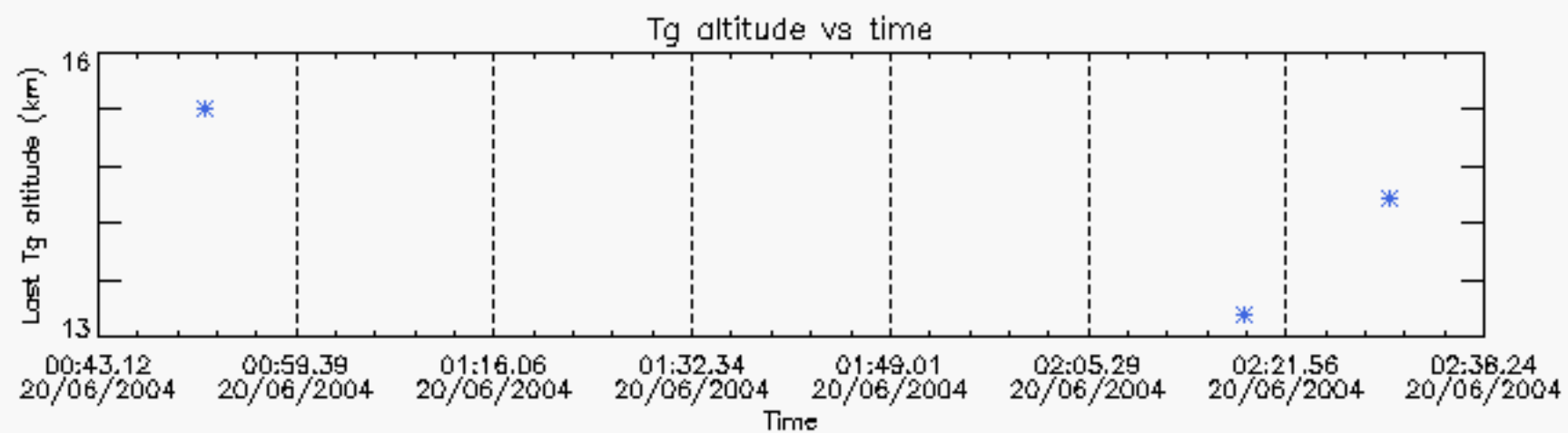
Percentage of star falling outside central band per profile



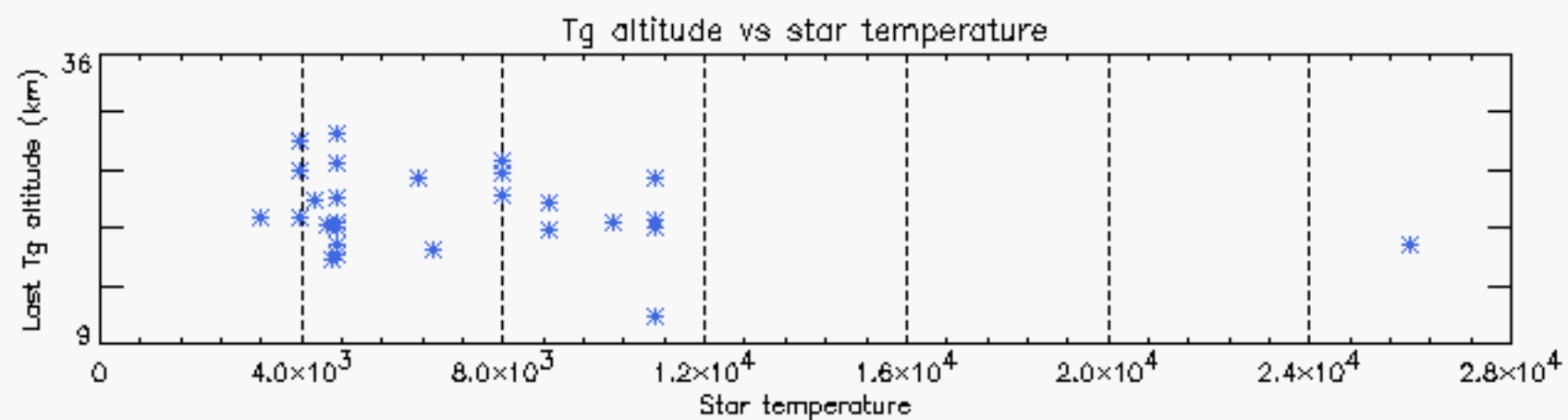
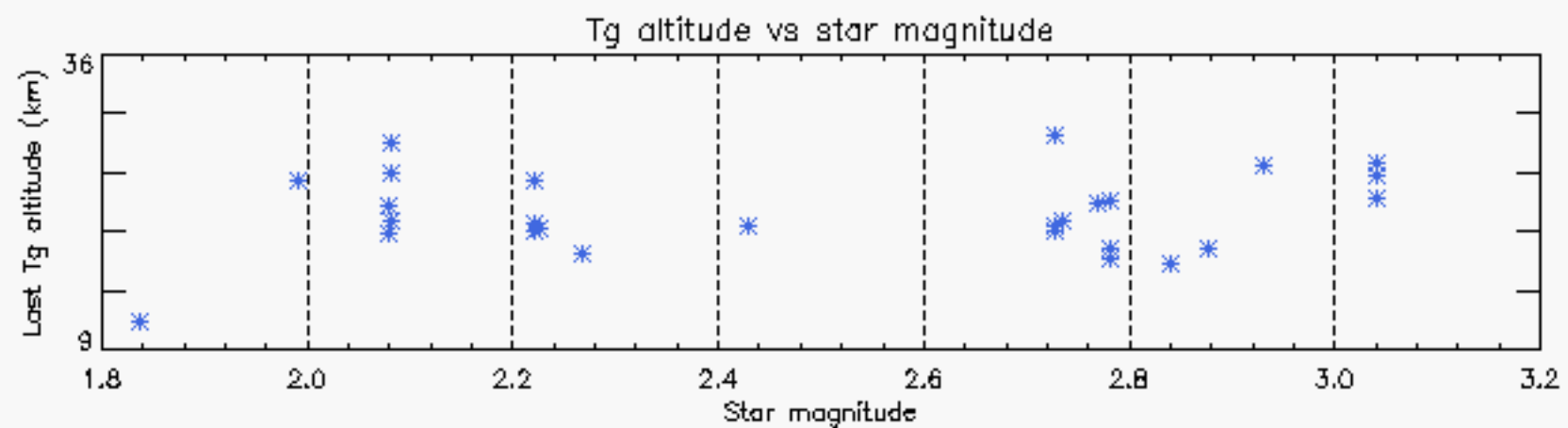
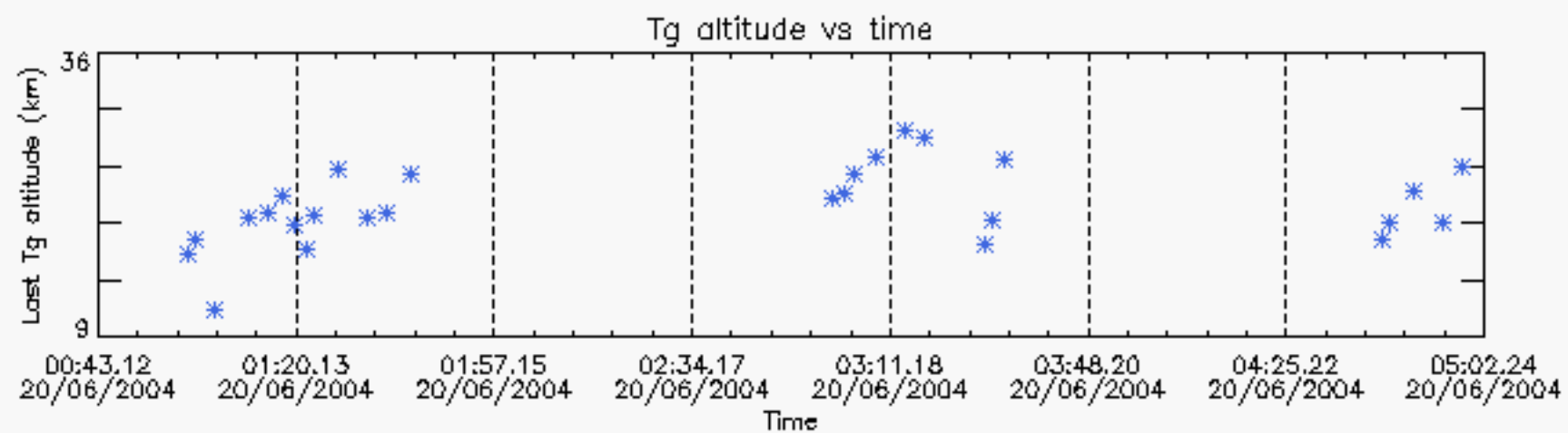
Percentage of saturation errors per profile



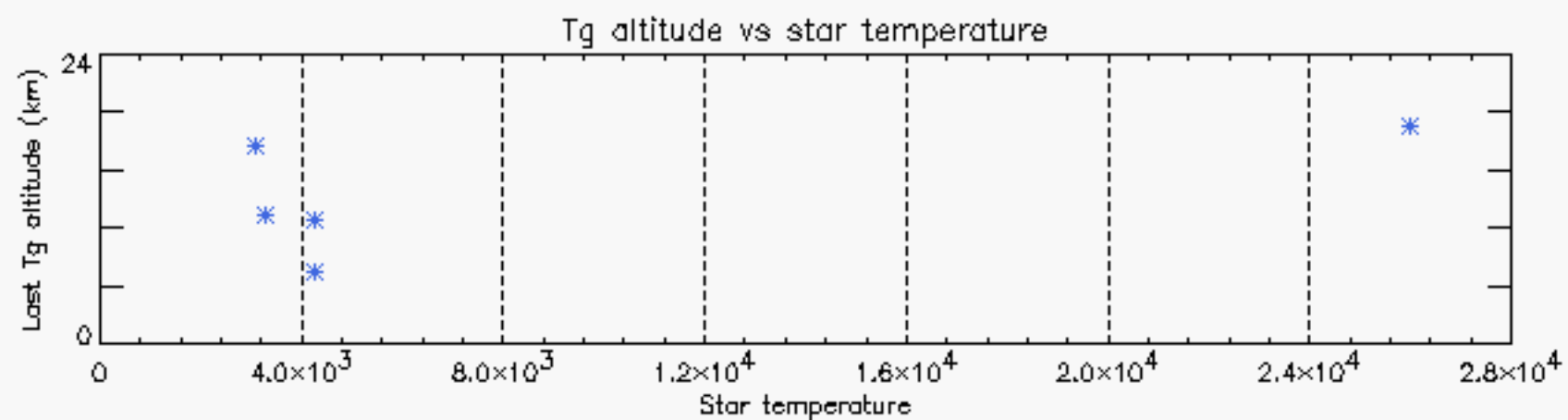
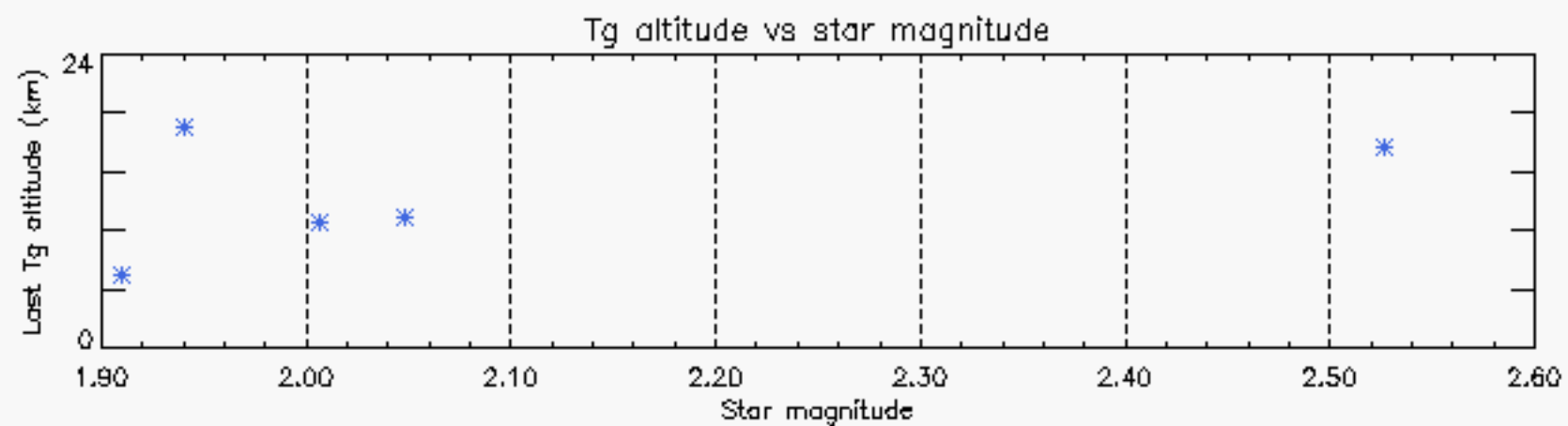
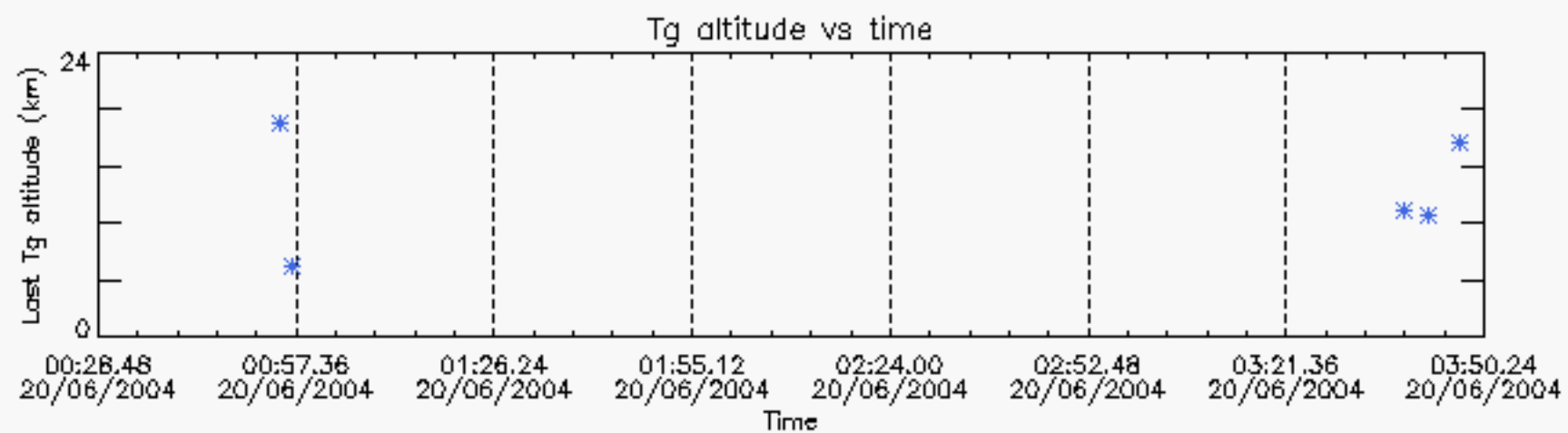
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL_0PNPDK20040601_060933_000061532027_00206_11783_0854.N1

1;-4410.1; 01-JUN-2004 06:09:33; Bright; 47.0; 86; 35Eta Oph ; 2.43; 10200;occ; 94; 71;11783
 2;-4334.4; 01-JUN-2004 06:10:49; Bright; 42.5; 98; 13Zet Oph ; 2.57; 30000;occ; 85; 0;11783
 3;-4203.2; 01-JUN-2004 06:13:00; Bright; 40.0; 120; 1Del Oph ; 2.73; 3200;occ; 80; 0;11783
 4;-4022.5; 01-JUN-2004 06:16:01; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;11783
 5;-3779.7; 01-JUN-2004 06:20:04; Bright; 38.0; 3; 16Alp Boo ;-0.05; 4250;occ; 76; 0;11783
 6;-3664.8; 01-JUN-2004 06:21:59; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;11783
 7;-3473.2; 01-JUN-2004 06:25:10; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;11783
 8;-3268.2; 01-JUN-2004 06:28:35; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;11783
 9;-3159.4; 01-JUN-2004 06:30:24; Bright; 37.0; 55; 79Zet UMa ; 2.06; 10200;occ; 74; 0;11783
 10;-3034.8; 01-JUN-2004 06:32:29; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;11783
 11;-2871.4; 01-JUN-2004 06:35:12; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;11783
 12;-2590.9; 01-JUN-2004 06:39:53; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;11783
 13;-2413.5; 01-JUN-2004 06:42:50; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;11783
 14;-1623.2; 01-JUN-2004 06:56:00; Dark ; 180.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 360; 0;11783
 15;-1385.8; 01-JUN-2004 06:59:58; Dark ; 91.0; 93; 53Bet Peg ; 2.52; 3100;occ; 182; 0;11783
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 33; 1590.3; 01-JUN-2004 07:49:34; Bright; 47.5; 86; 35Eta Oph ; 2.43; 10200;occ; 95; 0;11784
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 31; 1590.3; 01-JUN-2004 09:30:10; Bright; 46.5; 86; 35Eta Oph ; 2.43; 10200;occ; 93; 0;11785
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25;	198.2;	01-JUN-2004	10:47:34;	Dark	;	47.5;	31;	Alp Gru	;	1.73;	15200;occ;	95;	0;11786
26;	493.7;	01-JUN-2004	10:52:29;	Dark	;	45.5;	45;	Alp Pav	;	1.94;	26000;occ;	91;	0;11786
27;	707.4;	01-JUN-2004	10:56:03;	Dark	;	42.0;	43;	Alp TrA	;	1.91;	4250;occ;	84;	0;11786
28;	830.9;	01-JUN-2004	10:58:06;	Dark	;	39.5;	134;	Bet TrA	;	2.81;	6600;occ;	79;	0;11786
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3;	-4203.7;	01-JUN-2004	11:14:47;	Bright;	41.5;	120;	1Del Oph	;	2.73;	3200;occ;	83;	0;11786	
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22;	-470.6;	01-JUN-2004	12:17:01;	Dark	;	59.5;	0;	;	0.00;	0;occ;	119;	0;11786	
23;	-237.6;	01-JUN-2004	12:20:54;	Dark	;	45.5;	84;	Alp Phe	;	2.40;	4500;occ;	91;	0;11786
24;	-111.0;	01-JUN-2004	12:23:00;	Dark	;	44.5;	9;	Alp Eri	;	0.45;	24000;occ;	89;	0;11786
25;	85.5;	01-JUN-2004	12:26:17;	Dark	;	49.0;	63;	Bet Gru	;	2.15;	2800;occ;	98;	0;11787
26;	198.9;	01-JUN-2004	12:28:10;	Dark	;	48.5;	31;	Alp Gru	;	1.73;	15200;occ;	97;	0;11787
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26;	3917.3;	25-JUN-2004	00:51:20;	Bright;	;	48.5;	68;	18Alp Cas	;	2.22;	4500;occ;	97;	0;	12123
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28;	4268.3;	25-JUN-2004	00:57:11;	Bright;	;	47.5;	73;	57Gam1And	;	2.26;	13100;occ;	95;	0;	12123
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31; 4266.4; 30-JUN-2004 01:40:15; Bright; 49.0; 73; 57Gam1And ; 2.26; 13100;occ; 98; 0;12195
32; 4418.8; 30-JUN-2004 01:42:47; Dark ; 69.0; 53; 43Bet And ; 2.05; 3300;occ; 138; 0;12195
33; 4675.0; 30-JUN-2004 01:47:03; Dark ; 58.5; 50; 13Alp Ari ; 2.01; 4250;occ; 117; 0;12195
34; 4972.4; 30-JUN-2004 01:52:01; Dark ; 55.0; 94; 92Alp Cet ; 2.53; 3100;occ; 110; 0;12195
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3; -189.3; 30-JUN-2004 02:06:35; Dark ; 77.5; 52; 16Bet Cet ; 2.04; 4500;occ; 155; 0;12195
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6; 476.5; 30-JUN-2004 02:17:41; Dark ; 66.0; 63; Bet Gru ; 2.15; 2800;occ; 132; 0;12196
7; 593.5; 30-JUN-2004 02:19:38; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;12196
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23; 2808.6; 30-JUN-2004 02:56:33; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;12196
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