

Absorption Data

Method: A 1

Year: 1977

MUF(3000)F₂

Station (circuit): Tbilissi

Geographic latitude: 41°44'N

longitude: 44°48'E

Frequency: MHz 1.7

Geomagnetic latitude: 36°30'

longitude: 193°12'

Date	L (dB)		L(cos χ =1)		L(cos χ =0.2)		exponent n		τ (min.)	Notes
	noon meas.	/calc	a. m. mean	/p. m. (dB)	a. m. mean	/p. m. (dB)	a. m. mean	/p. m. mean		
1										
2										
3										
4										
5										
6										
7										
8	38/37		46		25		0,36			
9										
10										
11										
12										
13										
14	45/47		58		31		0,38			
15	39/42		54		23		0,55			
16	37/38		53		18		0,67			
17										
18										
19										
20										
21										
22	34/43		62		18		0,77			
23										
24	37/41		72		11		1,2			
25										
26										
27										
28	42/40		60		13		0,93			
29										
30										
31										
Count	7		7		7		7			
Median	38/41		58		18		0,67			

Absorption Data

Method: A 1

Year: 1977

Month: II

Station (circuit): Tbilissi

Geographic latitude: 41°44'N

longitude: 44°48'E

Frequency: MHz 2.2

Geomagnetic latitude: 36°30'

longitude: 122°12'

Date	L (dB)	L(cos χ =1)		L(cos χ =0,2)		exponent n		τ (min.)	Notes
	noon meas. /calc.	a. m. mean	/p. m. (dB)	a. m. mean	/p. m. (dB)	a. m. mean	/p. m. mean		
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14	41/44	50		35		0,22			
15	41/48	60		29		0,45			
16	41/48	96		11		0,97			
17	41/43	64		20		0,74			
18									
19									
20									
21									
22									
23									
24	39/40	64		12		1,0			
25									
26									
27	37/41	51		23		0,51			
28	38/39	48		22		0,48			
29									
30									
31									
Count	7	7		7		7			
Median	41/43	60		22		0,51			

Absorption Data

Method: A 1

Year: 1977

Month: 03

Station (circuit): Tbilissi

Geographic latitude: 41°44'N

longitude: 44°48'E

Frequency: MHz 1.7

Geomagnetic latitude: 36°30'

longitude: 129°12'

Date	L (dB) noon meas. /calc.	L(cos χ =1) a. m. /p. m. mean (dB)		L(cos χ =0.2) a. m. /p. m. mean (dB)		exponent n a. m. /p. m. mean		τ (min.)	Notes
1	38/39	49		19		0,6			
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20	48/49	60		20		0,68			
21	43/45	64		7		1,45			
22									
23	50/56	200		2		5,55			
24	50/46	50		25		0,43			
25									
26									
27									
28	40/40	52		9		1,06			
29									
30									
31									
Count	6	6		6		6			
Median	45/45	56		14		0,87			

Absorption Data

Method: A 1

Year: 1977

Month: 7

Station (circuit): Tbilissi

Geographic latitude: 41°44'N

longitude: 44°48'E

Frequency: MHz 1.7

Geomagnetic latitude: 36°30'

longitude: 192°12'

Date	L (dB)		L(cos χ = 1)		L(cos χ = 0.2)		exponent n		τ (min.)	Notes
	noon meas.	/calc.	a. m. mean	/p. m. (dB)	a. m. mean	/p. m. (dB)	a. m. mean	/p. m. mean		
1										
2										
3		52/49		60		2		2.2		
4										
5		/51		56		16		0.78		
6										
7										
8										
9										
10		45/45		50		10		1.03		
11										
12										
13										
14										
15										
16										
17		/47		49		23		0.46		
18										
19										
20										
21										
22										
23										
24		/44		49		14		0.75		
25										
26		49/50		53		17		0.70		
27										
28		50/51		54		14		0.8		
29										
30										
31		/48		49		30		0.31		
Count		8		8		8		8		
Median		50/49		52		15		0.77		

Absorption Data

Method: A 1

Year: 1977

Month: Y

Station (circuit): Tbilissi

Geographic latitude: 41°44'N

longitude: 44°48'E

Frequency: MHz 2.2

Geomagnetic latitude: 36°30'

longitude: 123°12'

Date	L (dB) noon meas. /calc.	L(cos χ =1) a. m. /p. m. mean (dB)	L(cos χ =0.2) a. m. /p. m. mean (dB)	exponent n a. m. /p. m. mean	τ (min.)	Notes
1						
2						
3	53/53	66	2	2.25		
4						
5						
6						
7						
8						
9						
10	48/48	51	16	0.69		
11						
12						
13						
14						
15						
16						
17	/53	55	21	0.59		
18						
19						
20						
21						
22						
23						
24	/48	49	25	0.4		
25						
26	/48	50	24	0.45		
27						
28	/54	57	17	0.75		
29						
30						
31						
Count Median	6 50/50	6 53	6 19	6 0.64		

Absorption Data

Method: A 1

Year: 1977

Month: VII

Station (circuit): Tbilissi

Geographic latitude: 41°44'N

longitude: 44°48'E

Frequency: MHz 2.2

Geomagnetic latitude: 36°30'

longitude: 122°12'

Date	L (dB)		L(cos χ =1)		L(cos χ =0.2)		exponent n		τ (min.)	Notes
	noon meas. /calc.		a. m. /p. m. mean (dB)		a. m. /p. m. mean (dB)		a. m. /p. m. mean			
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18	47/47		53		3		1.79			
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Count	I		I		I		I			
Median	47/47		53		3		1.79			

Absorption Data

Method: A 1

Year: 1977

Month: 5m

Station (circuit): Tbilissi

Geographic latitude: 41°44'N

longitude: 44°48'E

Frequency: MHz 2.2

Geomagnetic latitude: 36°30'

longitude: 122°12'

Date	L (dB) noon meas. /calc.	L(cos χ =1) a. m. /p. m. mean (dB)		L(cos χ =0,2) a. m. /p. m. mean (dB)		exponent n a. m. /p. m. mean		τ (min.)	Notes
1									
2									
3									
4	45/45		48		17		0,63		
5									
6									
7									
8									
9	52/52	62	57 52	5	25 44	1,56	0,84 0,11	60	
10	45/46		52		9		1,15		
11	/58		63		21		0,67		
12									
13									
14									
15	41/43		48		9		1,04		
16									
17	40/42		50		4		1,64		
18	47/47		56		6		1,4		
19	/ 47		52		14		0,82		
20									
21									
22									
23	/46		51		14		0,79		
24	/41		45		16		0,63		
25									
26									
27									
28									
29									
30									
31									
Count	10		10		10		10		
Median	45/46		52		14		0,83	60	

Absorption Data

Method: A 1

Year: 1977

Month: IX

Station (circuit): Tbilissi

Geographic latitude: 41°44'N

longitude: 44°48'E

Frequency: MHz 1.7

Geomagnetic latitude: 36°30'

longitude: 123°12'

Date	L (dB)		L(cos χ =1)		L(cos χ =0.2)		exponent n		τ (min.)	Notes
	noon meas. /calc.		a. m. /p. m. mean (dB)		a. m. /p. m. mean (dB)		a. m. /p. m. mean			
1										
2	39/39		50		6		1,35			
3										
4										
5	39/45		62		6		1,53			
6	/39		57		5		1,47			
7	41/41		72		1		2,5			
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Count										
Median	39/40		60		6		1,5			

Absorption Data

Method: A 1

Year: 1977

Month: IX

Station (circuit): Tbilissi

Geographic latitude: 41°44'N

longitude: 44°48'E

Frequency: MHz 2.2

Geomagnetic latitude: 86°30'

longitude: 123°12'

Date	L (dB) noon meas. /calc.	L(cos χ =1)		L(cos χ =0.2)		exponent n		τ (min.)	Notes
		a. m. mean	/p. m. (dB)	a. m. mean	/p. m. (dB)	a. m.	/p. m. mean		
1									
2	/41	49		10		1.0			
3									
4									
5	/44	54		11		0.97			
6	44/43	54		8		1.14			
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
Count	3	3	3	3	3	3			
Median	44/43	54	10	1.0					

Absorption Data

Method: A 1

Year: 1977

Month: XI

Station (circuit): Tbilissi

Geographic latitude: 41°44'N

longitude: 44°48'E

Frequency: MHz 1,7

Geomagnetic latitude: 36°30'

longitude: 122°12'

Date	L (dB)		L(cos χ =1)		L(cos χ =0,2)		exponent n			τ (min.)	Notes
	noon meas. /calc.		a. m. /p. m. mean (dB)		a. m. /p. m. mean (dB)		a. m. /p. m. mean				
1	41/43		115 75 84		8 17 26		1,72	1,1	0,54	45	
2	46/46		320		I			3,37			
3	31/37		44		23			0,28			
4	28/36		64		14			0,84			
5											
6											
7											
8											
9											
10	40/35		120 70 56		5 17 26		2,04	0,88	0,47	60	
11											
12											
13											
14											
15											
16											
17	34/34		80		12			1,19			
18											
19											
20											
21	51/50		80		29			0,62			
22											
23											
24											
25	39/33		118 68 51		9 21 36		1,6	0,72	0,21	60	
26											
27											
28	46/45		200 120 64		2 17 32		4,54	1,23	0,43	50	
29	33/33		43		18			0,68			
30											
31											
Count	10		10		10			10			
Median	40/37		73		17			0,86		54	

Absorption Data

Method: A 1

Year: 1977

Month: XI

Station (circuit): Tbilissi

Geographic latitude: 41°44'N

longitude: 44°48'E

Frequency: MHz 2.2

Geomagnetic latitude: 36°30'

longitude: 122°12'

Date	L (dB) noon meas. /calc.	L(cosχ=1)		L(cosχ=0,2)		exponent n			τ (min.)	Notes
		a. m. mean (dB)	/p. m. mean (dB)	a. m. mean (dB)	/p. m. mean (dB)	a. m. mean	/p. m. mean			
1	45/45	88		15		1,1				
2	41/43	110		10		1,71				
3	34/38	50		24		0,45				
4	31/39	90		10		1,38				
5										
6										
7										
8										
9										
10	38/38	78	70 62	10	1,6 22	1,24	0,89	0,64	45	
11										
12										
13										
14										
15										
16	32/37	86		14		1,15				
17	32/35	94		10		1,41				
18										
19										
20										
21	/46	74		26		0,63				
22										
23	36/36	254	78 46	4	14 27	2,86	1,63	0,34	60	
24										
25	38/38	120		10		1,62				
26										
27										
28	40/40	250	90 64	6	18 26	2,38	1,0	0,57	35	
29	33/34	60		18		0,73				
30										
31										
Count	12	12		12		12				
Median	36/38	87		15		1,13			47	

Absorption Data

Method: A 1

Year: **1977**

Month: **XI**

Station (circuit): Tbilisi

Geographic latitude: 41°44'N

longitude: 44°48'E

Frequency: **I,7** MHz

Geomagnetic latitude: 36°30'

longitude: 122°12'

Date	L (dB) noon meas. /calc.	L(cosχ=1) a. m. /p. m. mean (dB)	L(cosχ=0.2) a. m. /p. m. mean (dB)	exponent n a. m. /p. m. mean		τ (min.)	Notes
	1	41/43	115/84 75	8/26 17	1,72/0,54		
2	46/46	320	1,3		3,37		
3	31/37	44	23		0,28		
4	28/36	64	14		0,84		
5							
6							
7							
8							
9							
10	40/35	120/56 70	5/26 17	2,04/0,47	0,88	60	
11							
12							
13							
14							
15							
16							
17	34/34	80	12		1,19		
18							
19							
20							
21	51/50	80	29		0,62		
22							
23							
24							
25	39/33	118/51 68	9/36 21	1,6/0,21	0,72	>60	
26							
27							
28	46/45	>200/64 120	2/32 17	4,54/0,43	1,23	50	
29	33/33	43	18		0,68		
30							
31							
Count	10	10	10		10	4	
Median	40/37	73	17		0,86	55	

Absorption Data

Method: A 1

Year: 1977

Month: XI

Station (circuit): Tbilisi

Geographic latitude: 41°44'N

longitude: 44°48'E

Frequency: 2.2 MHz

Geomagnetic latitude: 36°30'

longitude: 122°12'

Date	L (dB) noon meas. /calc.	L(cos χ =1) a. m. /p. m. mean (dB)	L(cos χ =0.2) a. m. /p. m. mean (dB)	exponent n a. m. /p. m. mean	τ (min.)	Notes
1	45/45	88	15	1,10		
2	41/43	110	10	1,71		
3	34/38	50	24	0,45		
4	31/39	90	10	1,38		
5						
6						
7						
8						
9						
10	38/38	78/62 70	10/22 16	1,25/0,64 0,89	45	
11						
12						
13						
14						
15						
16	32/37	88	14	1,15		
17	32/35	94	10	1,41		
18						
19						
20						
21	/46	74	26	0,63		
22						
23	36/36	254/46 78	3,5/27 14	2,86/0,34 1,63	60	
24						
25	38/38	120	10	1,62		
26						
27						
28	40/40	250/64 90	6/26 18	2,38/0,57 1,00	35	
29	33/34	60	18	0,73		
30						
31						
Count	12					
Median	36/38	87 12	15 12	1,13 12	3 45	

Absorption Data

Method: A 1

Year: 1977

Month: ~~XII~~

Station (circuit): Tbilissi

Geographic latitude: 41°44'N

longitude: 44°48'E

Frequency: MHz **I.7**

Geomagnetic latitude: 36°30'

longitude: 129°12'

Date	L (dB) noon meas. /calc.	L(cos χ =1) a. m. /p. m. mean (dB)	L(cos χ =0.2) a. m. /p. m. mean (dB)	exponent n a. m. /p. m. mean	τ (min.)	Notes
1						
2	36/36	I10	I3	I,33		
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19	42/42	90	22	0,88		
20	/47	86	28	0,69		
21						
22	34/36	92	I6	I,08		
23	36/39	I03	I7	I,1		
24						
25						
26	42/44	76	28	0,62		
27	39/38	56	27	0,45		
28						
29	52/53	98	3I	0,7I		
30						
31						
Count	8	8	8	8		
Median	39/4I	9I	25	0,8		

Absorption Data

Method: A 1

Year: **1977**Month: **XII**

Station (circuit): Tbilissi

Geographic latitude: 41°44'N

longitude: 44°48'E

Frequency: MHz **2.2**

Geomagnetic latitude: 36°30'

longitude: 123°12'

Date	L (dB) noon meas. /calc.	L(cos χ =1) a. m. /p. m. mean (dB)	L(cos χ =0.2) a. m. /p. m. mean (dB)	exponent n a. m. /p. m. mean	τ (min.)	Notes
	1					
2	34/35	72	18	0,88		
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19	38/40	59	29	0,43		
20	38/39	56	30	0,40		
21						
22	35/37	75	20	0,81		
23	36/39	86	20	0,90		
24						
25						
26	47/46	125	19	1,17		
27	43/38	55	28	0,42		
28						
29	46/53	75	38	0,42		
30						
31						
Count	8	8	8	8		
Median	38/39	73	24	0,62		

Absorption Data

Method: A 1

Year: 1977

Month: XII

Station (circuit): Tbilisi

Geographic latitude: 41°44'N

longitude: 44°48'E

Frequency: I.7 MHz

Geomagnetic latitude: 36°30'

longitude: 122°12'

Date	L (dB)	L(cos χ =1)		L(cos χ =0.2)		exponent n		τ (min.)	Notes
	noon meas. /calc.	a. m. mean	/p. m. (dB)	a. m. mean	/p. m. (dB)	a. m. mean	/p. m. mean		
1									
2	36/36		110		13		1.33		
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19	42/42		90		22		0.88		
20	/47		86		28		0.69		
21									
22	34/36		92		16		1.08		
23	36/39		103		17		1.10		
24									
25									
26	42/44		76		28		0.62		
27	39/38		56		27		0.45		
28									
29	52/53		98		31		0.71		
30									
31									
Count	8		8		8		8		
Median	39/41		91		25		0.80		

Absorption Data

Method: A 1

Year: 1977

Month: XII

Station (circuit): Tbilisi

Geographic latitude: 41°44'N

longitude: 44°48'E

Frequency: 2.2 MHz

Geomagnetic latitude: 36°30'

longitude: 122°13'

Date	L (dB) noon meas. /calc.	L(cos χ =1) a. m. /p. m. mean (dB)	L(cos χ =0.2) a. m. /p. m. mean (dB)	exponent n a. m. /p. m. mean	τ (min.)	Notes
1						
2	34/35	72	18	0,88		
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19	38/40	59	29	0,43		
20	38/39	56	30	0,40		
21						
22	35/37	75	20	0,81		
23	36/39	86	20	0,90		
24						
25						
26	47/46	125	19	1,17		
27	43/38	55	28	0,42		
28						
29	46/53	75	38	0,42		
30						
31						
Count	8	8	8	8		
Median	38/39	73	24	0,62		