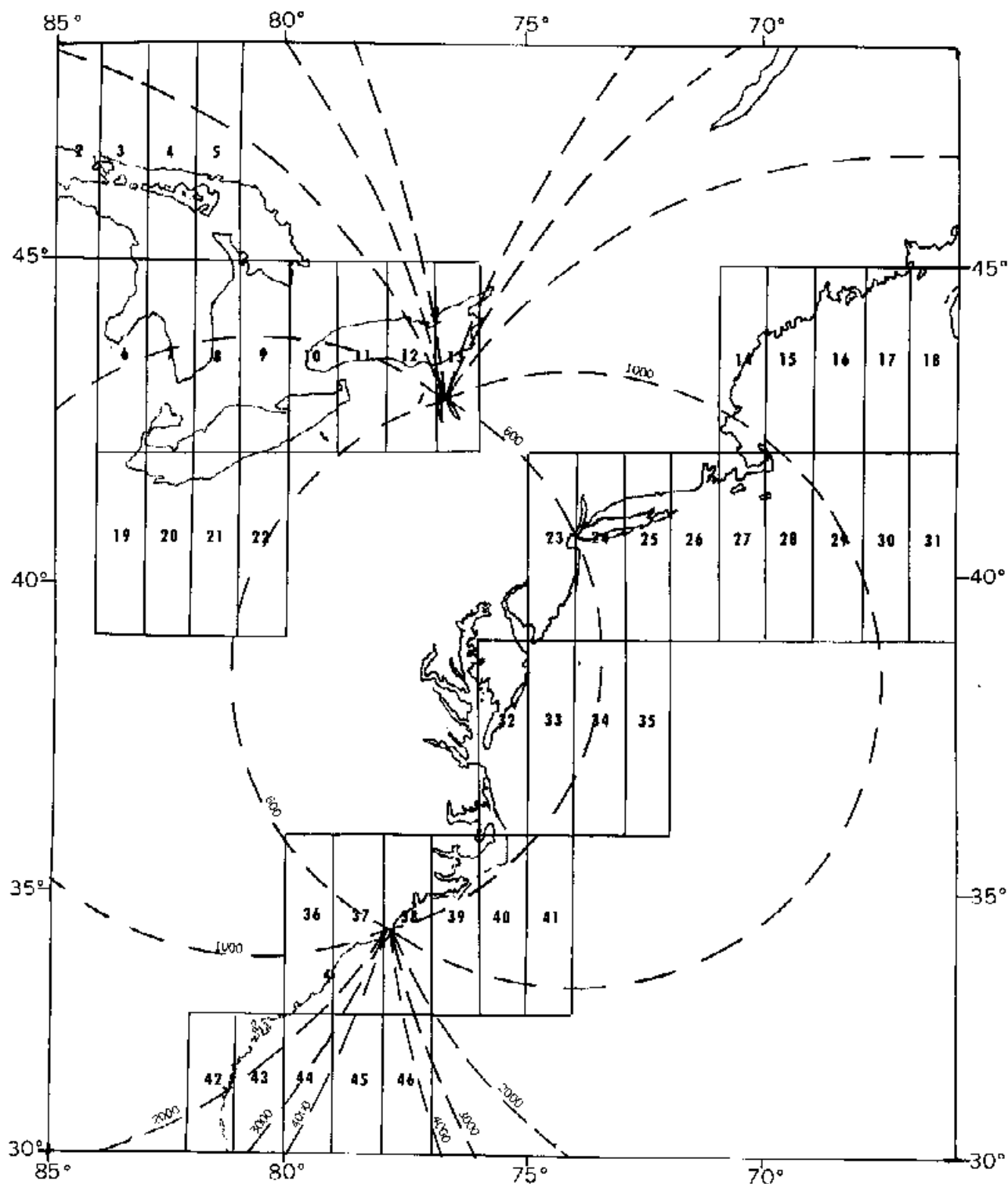


## PAGE INDEX FOR SECONDARY PHASE CORRECTIONS FOR 9960-Y



Corrections on each page cover an area three degrees in latitude and one degree in longitude and are in increments of five minutes of arc. Dashed lines show hyperbolic lane expansion in feet per microsecond.

9960-Y

[illegible]

**3Y**

		LONGITUDE WEST												
		84° 0'	55	50	45	40	35	30	25	20	15	10	5	83° 0'
LATITUDE NORTH	48° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													
	15													
	10													
	5													
	47° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20		-2.3											
	15			-2.4	-2.4	-2.3	-2.3	-2.4						
	10				-2.4	-2.4	-2.3	-2.4	-2.4	-2.4	-2.4	-2.4	-2.4	
	5	-2.2		-2.2	-2.2			-2.3	-2.4	-2.3	-2.4	-2.4	-2.4	-2.4
	46° 0'			-2.3				-2.3	-2.3	-2.3	-2.3	-2.3	-2.4	-2.4
55	-2.2	-2.1	-2.3	-2.2	-2.2	-2.2	-2.2			-2.2		-2.3		
50	-2.3	-2.2	-2.1	-2.3	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.3	-2.3		
45	-2.3	-2.3	-2.1	-2.1	-2.2	-2.2	-2.2	-2.2	-2.1	-2.2	-2.1	-2.2	-2.3	
40	-2.4	-2.3	-2.2	-2.1	-2.3	-2.2	-2.2	-2.2	-2.2	-2.1	-2.2	-2.2	-2.2	
35	-2.5	-2.4	-2.3	-2.2	-2.2	-2.3	-2.2	-2.2	-2.2	-2.1	-2.2	-2.2	-2.2	
30	-2.6	-2.6	-2.4	-2.3	-2.2	-2.4	-2.2	-2.2	-2.2	-2.2	-2.1	-2.2	-2.2	
25				-2.4	-2.3	-2.2	-2.3	-2.2	-2.2	-2.2	-2.1	-2.2	-2.2	
20								-2.2	-2.2	-2.2	-2.2	-2.1	-2.2	
15								-2.3	-2.2	-2.2	-2.2	-2.2	-2.2	
10									-2.1	-2.2	-2.2	-2.2	-2.1	
5										-2.1	-2.1	-2.2	-2.2	
45° 0'								-2.1	-1.9	-2.1	-2.1	-2.1	-2.2	
		84° 0'	55	50	45	40	35	30	25	20	15	10	5	83° 0'
		LONGITUDE WEST												



5Y

		LONGITUDE WEST												
		82° 0'	55	50	45	40	35	30	25	20	15	10	5	81° 0'
LATITUDE  NORTH	48° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													
	15													
	10													
	5													
	47° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
20														
15														
10														
5														
46° 0'	-2.8	-2.8	-2.9	-2.9	-2.8	-2.7						-2.6		
55	-2.8		-2.8	-2.9	-2.8	-2.8	-2.8	-2.5	-2.8	-2.7	-2.7	-2.6	-2.5	
50			-2.8	-2.8	-2.8	-2.8	-2.8	-2.8	-2.7	-2.7	-2.7	-2.6	-2.6	
45		-2.8		-2.8		-2.8	-2.7	-2.7	-2.8	-2.8	-2.8	-2.8	-2.7	
40			-2.8		-2.8	-2.7	-2.7	-2.7	-2.8	-2.8	-2.8	-2.8	-2.8	
35	-2.6				-2.7	-2.8	-2.7	-2.7	-2.7	-2.8	-2.8	-2.8	-2.8	
30	-2.6	-2.7	-2.7		-2.7	-2.8	-2.8	-2.7	-2.7	-2.7	-2.8	-2.8	-2.8	
25	-2.6	-2.6	-2.6	-2.7	-2.7	-2.7	-2.8	-2.8	-2.7	-2.7	-2.7	-2.7	-2.8	
20	-2.5	-2.5	-2.6	-2.6	-2.7	-2.7	-2.8	-2.8	-2.7	-2.7	-2.8	-2.7	-2.7	
15	-2.5	-2.5	-2.5	-2.5		-2.6	-2.8	-2.8	-2.8	-2.7	-2.8	-2.7	-2.7	
10	-2.4	-2.5	-2.4	-2.4	-2.5				-2.8	-2.7	-2.7	-2.8	-2.7	
5	-2.4	-2.5	-2.5	-2.5	-2.4	-2.4				-2.7	-2.7	-2.8	-2.7	
45° 0'	-2.4	-2.5	-2.5	-2.5	-2.5	-2.4	-2.4			-2.7	-2.8	-2.8	-2.8	
		82° 0'	55	50	45	40	35	30	25	20	15	10	5	81° 0'
		LONGITUDE WEST												

BY

9950-Y

		LONGITUDE WEST													
		84° 0'	55	50	45	40	35	30	25	20	15	10	5	83° 0'	
LATITUDE NORTH	45° 0'								-2.1	-1.9	-2.1	-2.1	-2.1	-2.2	
	55									-1.9	-1.9	-2.1	-2.1	-2.1	
	50										-1.9	-2.1	-2.1	-2.1	
	45										-1.9	-1.9	-2.1	-2.1	
	40										-2.0	-1.9	-2.1	-2.1	
	35										-2.0	-1.9	-1.9	-2.1	
	30										-2.0	-1.9	-1.9	-2.1	
	25											-2.1	-2.0	-1.9	-1.9
	20									-2.2	-2.2	-2.2	-2.0	-2.0	-1.9
	15							-2.3	-2.3	-2.3	-2.3	-2.2	-2.1	-2.0	-2.0
	10							-2.3	-2.2	-2.3	-2.3	-2.3	-2.1	-2.1	-2.1
	5							-2.2	-2.2	-2.2	-2.2	-2.2	-2.3	-2.1	-2.1
	44° 0'					-1.6	-2.1	-2.1	-2.1	-2.2	-2.2	-2.2			
	55			-1.5	-1.5	-1.5	-1.5	-2.1	-2.1	-2.2					
	50		-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-2.0						
	45		-1.5	-1.5	-1.5	-1.5	-1.5	-1.5							
40			-1.5	-1.5	-1.5	-1.5									
35					-1.4										
30															
25															
20															
15															
10															
5															
43° 0'															
55															
50															
45															
40															
35															
30															
25															
20														-1.0	
15															
10															
5															
42° 0'															
		84° 0'	55	50	45	40	35	30	25	20	15	10	5	83° 0'	
		LONGITUDE WEST													



8Y

9960-Y

		LONGITUDE WEST												
		82° 0'	55	50	45	40	35	30	25	20	15	10	5	81° 0'
LATITUDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <														



9960-Y

9Y

		LONGITUDE WEST												
		81° 0'	55	50	45	40	35	30	25	20	15	10	5	80° 0'
LATITUDE NORTH	45° 0'	-2.8	-2.8	-2.8	-2.7	-2.7	-2.7	-2.7	-2.7	-2.7	-2.7	-2.7	-2.8	-2.7
	55	-2.8	-2.7	-2.8	-2.8	-2.7	-2.7	-2.7	-2.7	-2.6	-2.7	-2.6	-2.7	-2.8
	50	-2.7	-2.7	-2.8	-2.8	-2.8	-2.8	-2.7	-2.7	-2.7	-2.6	-2.6	-2.6	
	45			-2.7	-2.8	-2.8	-2.8	-2.7	-2.7	-2.7	-2.7	-2.6		
	40		-2.6				-2.7	-2.8	-2.7	-2.7	-2.7	-2.7	-2.6	-2.7
	35								-2.7	-2.7	-2.7	-2.7	-2.6	-2.6
	30											-2.7	-2.6	
	25													
	20													
	15													
	10													
	5													
	44° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													
	15													
	10													
	5													
	43° 0'													
55														
50														
45											-2.3	-2.3	-2.3	-2.3
40										-2.2	-2.3	-2.3	-2.2	-2.3
35	-2.0	-2.1	-2.1	-2.1	-2.0					-2.2	-2.2	-2.2	-2.2	-2.2
30	-1.9	-1.9	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
25	-1.9	-1.9	-2.0	-2.0	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-2.0	-2.0	-2.0
20	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-2.0	-2.0	-2.0
15	-1.8	-1.8	-1.8	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9
10	-1.8	-1.8	-1.8	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.8	-1.8	-1.8	-1.8	
5	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.7	-1.7				
42° 0'	-1.8	-1.8	-1.8	-1.7	-1.8	-1.8	-1.7							
		81° 0'	55	50	45	40	35	30	25	20	15	10	5	80° 0'
		LONGITUDE WEST												

9960-Y

[illegible]

11Y

[illegible]

12Y

9960-Y

		LONGITUDE WEST												
		78° 0'	55	50	45	40	35	30	25	20	15	10	5	77° 0'
LATITUDE NORTH	45° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													
	15													
	10													
	5													
	44° 0'			-3.1		-3.1	-3.0			-3.0	-3.0		-3.0	
	55	-3.1	-3.1	-3.1	-3.1	-3.1	-3.1	-3.1	-3.1	-3.2				
	50	-3.1	-3.1	-3.1	-3.1	-3.1	-3.1	-3.1	-3.2	-3.3	-3.3	-3.1	-3.1	-3.1
	45	-3.2	-3.2	-3.2	-3.2	-3.2	-3.2	-3.2	-3.2	-3.3	-3.3	-3.1	-3.1	-3.1
	40	-3.2	-3.2	-3.2	-3.2	-3.2	-3.2	-3.2	-3.2	-3.3	-3.3	-3.3	-3.2	-3.2
	35	-3.2	-3.2	-3.3	-3.2	-3.2	-3.2	-3.3	-3.3	-3.4	-3.4	-3.4	-3.2	-3.2
	30	-3.2	-3.3	-3.3	-3.3	-3.3	-3.3	-3.3	-3.3	-3.4	-3.4	-3.4	-3.2	-3.3
	25	-3.2	-3.2	-3.3	-3.3	-3.3	-3.3	-3.3	-3.3	-3.4	-3.4	-3.4	-3.4	-3.4
	20					-3.3	-3.3	-3.3	-3.3	-3.4	-3.4	-3.5	-3.5	-3.4
	15						-3.3							
	10													
	5													
	43° 0'													
55														
50														
45														
40														
35														
30														
25														
20														
15														
10														
5														
42° 0'														
		78° 0'	55	50	45	40	35	30	25	20	15	10	5	77° 0'
		LONGITUDE WEST												



14Y

9960-Y

9960-Y

		LONGITUDE WEST												
		71° 0'	55	50	45	40	35	30	25	20	15	10	5	70° 0'
LATITUDE NORTH	45° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													
	15													
	10													
	5													
	44° 0'													
	55													
	50													
	45													
	40											1.5	1.6	1.8
	35											1.7	1.8	1.9
	30											1.9	1.9	1.8
	25									1.6	1.8	1.7	1.7	1.7
	20								1.8	1.7	1.7	1.7	1.7	1.8
	15						1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.8
	10						1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8
	5					1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.7
	43° 0'				1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6
55				1.4	1.4	1.4	1.5	1.5	1.6	1.6	1.6	1.6	1.6	
50				1.4	1.4	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.7	
45				1.4	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.7	1.7	
40						1.7	1.6	1.7	1.7	1.7	1.7	1.7	1.8	
35						1.7	1.6	1.7	1.7	1.7	1.7	1.8	1.8	
30			1.7	1.6	1.5	1.6	1.6	1.6	1.7	1.6	1.7	1.7	1.8	
25	1.9	2.0	2.0	2.0	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.8	
20	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.0	2.1	2.2	2.2	2.2	2.3	
15				1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.2	2.2	2.2	
10					2.0	1.9	2.1	2.1	2.0	2.2	2.2	2.2	2.2	
5						2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
42° 0'					2.1	2.1	2.1	2.2	2.3	2.3	2.2		2.1	
		71° 0'	55	50	45	40	35	30	25	20	15	10	5	70° 0'
		LONGITUDE WEST												

**15Y**

[illegible]

16Y

5500-1

		LONGITUDE WEST												
		69° 0'	55	50	45	40	35	30	25	20	15	10	5	68° 0'
LATITUDE	45° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25	2.1	2.1	2.3							2.4	2.4		
	20											2.6	2.6	2.6
	15	2.3	2.4	2.4	2.3		2.4	2.4	2.4		2.6	2.5	2.5	2.4
	10	2.3	2.4		2.4		2.4	2.3		2.5	2.5	2.5	2.5	2.5
	5	2.4	2.4		2.5	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	44° 0'	2.2	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.3	2.3	2.3
	55	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	50	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2
45	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	
40	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.0	2.0	
35	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
30	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.0	
NORTH	25	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0
	20	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.1	2.1
	15	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1
	10	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0
	5	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0
	43° 0'	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0
	55	1.8	1.8	1.8	1.9	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9
	50	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	1.9
	45	1.8	1.8	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9
	40	1.8	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0
	35	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0
	30	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	25	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0
	20	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	15	2.3	2.3	2.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
10	2.3	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
5	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
42° 0'	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
		69° 0'	55	50	45	40	35	30	25	20	15	10	5	68° 0'
		LONGITUDE WEST												



[illegible]

18Y

9960-Y

		LONGITUDE WEST												
		67° 0'	55	50	45	40	35	30	25	20	15	10	5	66° 0'
LATITUDE	45° 0'		2.9	2.9	3.1	3.1	3.1	3.1	3.0	3.0	3.0	3.0	3.0	3.0
	55			3.2	3.2	3.2	3.1	2.9	3.0	3.0	3.0	3.0	2.9	2.9
	50		3.2	3.2	3.1	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	45	3.1	3.0		2.9	2.8	2.9	2.9	2.8	2.8	2.8	2.8	2.7	2.7
	40	2.8	2.8		2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6
	35	2.7	2.6	2.6	2.6	2.6	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.5
	30	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6		2.5
	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.5	2.6		2.6	
	20	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.5		
	15	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4		2.4	2.4		
	10	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3			
	5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3			
	44° 0'	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.3		
	55	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3		
	50	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3		
45	2.3	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2			
40	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
35	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
30	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
NORTH	25	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	20	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1
	15	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	10	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1
	5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	43° 0'	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	55	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	50	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	45	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	40	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	35	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	30	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	25	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0
	20	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1
	15	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
10	1.9	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
5	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	
42° 0'	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.0	2.0	2.0	2.1	2.1	
		67° 0'	55	50	45	40	35	30	25	20	15	10	5	66° 0'
		LONGITUDE WEST												

19Y

		LONGITUDE WEST												
		84° 0'	55	50	45	40	35	30	25	20	15	10	5	83° 0'
LATITUDE NORTH	42° 0'											-0.4	-0.4	-0.4
	55									-0.6	-0.6	-0.6	-0.6	
	50								-0.5	-0.6	-0.6	-0.6	-0.6	
	45							-0.9	-0.6	-0.5	-0.6	-0.6	-0.6	
	40									-0.7	-0.7	-0.7	-0.7	
	35													-0.5
	30													
	25													
	20													
	15													
	10													
	5													
	41° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													
	15													
	10													
	5													
40° 0'														
55														
50														
45														
40														
35														
30														
25														
20														
15														
10														
5														
39° 0'														
		84° 0'	55	50	45	40	35	30	25	20	15	10	5	83° 0'
		LONGITUDE WEST												

20Y

9960-Y

[illegible]

21Y

		LONGITUDE WEST												
		82° 0'	55	50	45	40	35	30	25	20	15	10	5	81° 0'
LATITUDE NORTH	42° 0'	-1.3	-1.3	-1.3	-1.3	-1.3	-1.6	-1.6	-1.6	-1.7	-1.8	-1.8	-1.8	-1.8
	55	-1.2	-1.2	-1.3	-1.2	-1.2	-1.3	-1.5	-1.5	-1.6	-1.7	-1.7	-1.7	-1.8
	50	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.5	-1.5	-1.5	-1.6	-1.7	-1.6	
	45	-1.2	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.3	-1.3				
	40	-1.2	-1.1	-1.0	-1.0	-0.9	-0.9	-0.9						
	35	-1.0	-1.0	-0.9	-0.9	-0.9	-0.8							
	30		-1.0	-0.9	-0.8									
	25													
	20													
	15													
	10													
	5													
	41° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													
	15													
	10													
	5													
	40° 0'													
55														
50														
45														
40														
35														
30														
25														
20														
15														
10														
5														
39° 0'														
		82° 0'	55	50	45	40	35	30	25	20	15	10	5	81° 0'
		LONGITUDE WEST												

5

1

4

23Y

		LONGITUDE WEST												
		75° 0'	55	50	45	40	35	30	25	20	15	10	5	74° 0'
LATITUDE NORTH	42° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													
	15													
	10													
	5													
	41° 0'													
	55													
	50													
	45													
	40													
	35													
	30											1.2	1.0	0.9
	25													
	20													
	15													
	10													1.1
	5													1.3
40° 0'														1.4
55														1.5
50													1.4	1.6
45												1.3	1.5	1.5
40													1.5	1.6
35											1.4	1.5	1.6	1.6
30										1.3	1.5	1.5	1.6	1.6
25										1.5	1.4	1.6	1.5	1.5
20									1.7	1.7	1.6	1.5	1.5	1.5
15						1.4	1.6	1.7	1.7	1.8	1.8	1.5	1.5	1.5
10	1.2				1.3	1.5	1.7	1.6	1.7	1.7	1.7	1.5	1.5	1.5
5	1.2				1.1	1.6	1.5	1.7	1.7	1.7	1.7	1.7	1.5	1.5
39° 0'	1.1			1.1	1.4	1.4	1.7	1.7	1.7	1.7	1.6	1.7	1.7	1.5
		75° 0'	55	50	45	40	35	30	25	20	15	10	5	74° 0'
		LONGITUDE WEST												

9960-Y

		LONGITUDE WEST												
		74° 0'	55	50	45	40	35	30	25	20	15	10	5	73° 0'
LATITUDE	42° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													
	15													
	10												1.6	1.7
	5									1.2	1.3	1.4	1.6	1.5
	41° 0'						0.7	0.9	1.0	1.2	1.3	1.5	1.4	1.5
	55				1.1	0.8	0.6				1.3			
	50				0.7									
	45													
40										1.8	1.8		1.8	
35							1.8	1.8	1.8	1.8	1.8	1.8	1.7	
30	0.9	0.7	0.9	1.1	1.2	1.5	1.7	1.7	1.8	1.8	1.7	1.7	1.7	
NORTH	25		0.8	0.9	1.1	1.3	1.5	1.5	1.7	1.7	1.7	1.7	1.6	1.7
	20		0.9	1.1	1.2	1.4	1.4	1.5	1.5	1.6	1.6	1.6	1.6	1.6
	15		1.3	1.2	1.3	1.4	1.4	1.5	1.4	1.4	1.5	1.6	1.6	1.6
	10	1.1	1.3	1.6	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6
	5	1.3	1.5	1.7	1.5	1.6	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.5
	40° 0'	1.4	1.6	1.6	1.7	1.7	1.6	1.5	1.4	1.4	1.4	1.4	1.4	1.4
	55	1.5	1.6	1.6	1.6	1.7	1.6	1.5	1.5	1.4	1.4	1.4	1.4	1.4
	50	1.6	1.5	1.7	1.8	1.8	1.8	1.8	1.8	1.5	1.4	1.4	1.3	1.4
	45	1.5	1.6	1.6	1.6	1.6	1.6	1.7	1.6	1.6	1.4	1.4	1.4	1.4
	40	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.6	1.5	1.5	1.5	1.4
	35	1.6	1.6	1.6	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5
	30	1.6	1.6	1.5	1.6	1.6	1.6	1.5	1.6	1.6	1.6	1.7	1.6	1.6
	25	1.5	1.5	1.5	1.5	1.6	1.5	1.6	1.6	1.6	1.6	1.6	1.7	1.7
	20	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.7	1.7
	15	1.5	1.5	1.5	1.5	1.6	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7
	10	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.7	1.7	1.7	1.7
5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7	
39° 0'	1.5	1.4	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.7	1.6	1.7	1.7	
		74° 0'	55	50	45	40	35	30	25	20	15	10	5	73° 0'
		LONGITUDE WEST												



25Y

		LONGITUDE WEST												
		73° 0'	55	50	45	40	35	30	25	20	15	10	5	72° 0'
LATITUDE	42° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													2.0
	15		1.8	1.8	1.9	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	2.0
	10	1.7	1.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
	5	1.5	1.7	1.7	1.8	1.8	1.7	1.7			1.8	1.8	1.8	1.8
	41° 0'	1.5	1.6	1.7	1.7	1.7			1.7	1.7				1.8
	55						1.7	1.7			1.8	1.7	1.8	1.8
	50								1.8	1.8	1.7	1.7	1.7	1.8
	45		1.9		1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8
	40	1.8	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.8	1.8
	35	1.7	1.7	1.7	1.9	1.9	1.8	1.7	1.7	1.7	1.7	1.7	1.8	1.8
	30	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	25	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.8	1.7	1.8	1.8	1.8	1.7
	20	1.6	1.6	1.7	1.6	1.6	1.6	1.6	1.7	1.8	1.8	1.8	1.8	1.8
	15	1.6	1.6	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.9	1.9	1.8
	10	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.9
	5	1.5	1.5	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
40° 0'	1.4	1.5	1.5	1.6	1.7	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
55	1.4	1.4	1.4	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
50	1.4	1.4	1.4	1.4	1.5	1.6	1.7	1.7	1.6	1.7	1.7	1.7	1.7	
45	1.4	1.4	1.4	1.4	1.5	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	
40	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.7	
35	1.5	1.5	1.5	1.5	1.5	1.4	1.5	1.5	1.6	1.7	1.7	1.7	1.7	
30	1.6	1.5	1.5	1.5	1.4	1.5	1.5	1.5	1.5	1.6	1.6	1.7	1.7	
25	1.7	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.7	
20	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	
15	1.7	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
10	1.7	1.7	1.7	1.7	1.7	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
5	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.5	1.5	
39° 0'	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.5	
		73° 0'	55	50	45	40	35	30	25	20	15	10	5	72° 0'
		LONGITUDE WEST												

		LONGITUDE WEST												
		72° 0'	55	50	45	40	35	30	25	20	15	10	5	71° 0'
LATITUDE NORTH	42° 0'													
	55													
	50													
	45													
	40								1.9	2.0				
	35								2.0		2.1			
	30								2.1				2.3	2.3
	25								2.1	2.1	2.2	2.2	2.1	2.2
	20	2.0	2.1			2.1	2.1	2.0	2.0	2.1	2.1	2.0	2.1	2.1
	15	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	10	1.9	1.8	1.8	1.9	1.9		1.9	1.9	1.9	1.9	2.0	2.0	2.0
	5	1.8	1.7	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0
	41° 0'	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	2.0	1.9
	55	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9
	50	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.8	1.8	1.8	1.9
	45	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8
	40	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9
	35	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
30	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
25	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
20	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
15	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
10	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
5	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
40° 0'	1.7	1.7	1.7	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
55	1.7	1.7	1.7	1.7	1.7	1.9	1.8	1.8	1.8	1.8	1.8	1.7	1.7	
50	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.9	1.8	1.8	1.8	1.8	1.8	
45	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	
40	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.9	1.8	1.8	
35	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.9	
30	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
25	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
20	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
15	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
10	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	
5	1.5	1.5	1.5	1.5	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	
39° 0'	1.5	1.5	1.5	1.5	1.5	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.8	
		72° 0'	55	50	45	40	35	30	25	20	15	10	5	71° 0'
		LONGITUDE WEST												

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		LONGITUDE WEST													
		71° 0'	55	50	45	40	35	30	25	20	15	10	5	70° 0'	
LATITUDE	42° 0'					2.1	2.1	2.1	2.2	2.3	2.3	2.2		2.1	
	55							2.3	2.3	2.2	2.2	2.1			
	50							2.3	2.3	2.3	2.2	2.2	2.2		
	45								2.2	2.1	2.1				
	40				2.4										
	35		2.3	2.4	2.3				2.3	2.3	2.3	2.4	2.4		
	30	2.3	2.3	2.2		2.2	2.1	2.1	2.2	2.2	2.3	2.3	2.3	2.3	
	25	2.2	2.2	2.2	2.1			2.2	2.2	2.1	2.1	2.2	2.2	2.2	
	20	2.1	2.1		2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.2		
	15	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.2	2.2	2.2	2.3			
	10	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2	
	5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	
	41° 0'	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
	55	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
	50	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
	45	1.8	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
	40	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
	35	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.8	1.9	1.8	1.9	
	30	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.8	
	NORTH	25	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
20		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
15		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
10		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
5		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
40° 0'		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
55		1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
50		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
45		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	
40		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.0	
35		1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.0	2.0	
30		1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	2.0	2.0	2.0	
25		1.7	1.7	1.7	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	
20		1.7	1.7	1.7	1.8	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	
15		1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.1	2.1	2.1	2.1	2.0	2.1	
10		1.8	1.8	1.8	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.1	2.1	2.1	
5		1.8	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.0	2.0	2.1	2.1	2.1	
39° 0'		1.9	1.9	1.9	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.1	2.1	
		71° 0'	55	50	45	40	35	30	25	20	15	10	5	70° 0'	
		LONGITUDE WEST													

[illegible]

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[illegible]

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[illegible]

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		LONGITUDE WEST												
		67° 0'	55	50	45	40	35	30	25	20	15	10	5	66° 0'
LATITUDE NORTH	42° 0'	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.0	2.0	2.0	2.1	2.1
	55	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5
	50	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5
	45	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.5	2.5
	40	2.2	2.2	2.3	2.3	2.3	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5
	35	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5
	30	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.4	2.5
	25	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	20	2.5	2.5	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	15	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	10	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.5	2.5
	5	2.6	2.6	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.6	2.6	2.6
	41° 0'	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	55	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	50	2.5	2.5	2.5	2.6	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7
	45	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6
	40	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.6
	35	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	30	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5
	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.5
	20	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4
	15	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	10	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.6
	5	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.5
40° 0'	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
55	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	
50	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	
45	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
40	2.3	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
35	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
30	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
25	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.2	2.3	2.3	2.3	2.3	
20	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.4	
15	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	
10	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	
5	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	
39° 0'	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.4	
		67° 0'	55	50	45	40	35	30	25	20	15	10	5	66° 0'
		LONGITUDE WEST												

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		LONGITUDE WEST													
		76° 0'	55	50	45	40	35	30	25	20	15	10	5	75° 0'	
LATITUDE	39° 0'									1.0	1.0	1.1	1.2	1.1	
	55										1.0	1.1	1.1	1.0	
	50											1.0	1.0	0.8	
	45												0.7	0.7	
	40													0.8	
	35											0.9	0.7	1.1	
	30													1.3	
	25												1.4	1.4	
	20	1.1	1.5												1.5
	15	1.3	1.4											1.7	1.6
	10	1.3									1.6			1.8	1.6
	5	1.2	1.5							1.6	1.6	1.7	1.8	1.6	
	38° 0'		1.4							1.7	1.7	1.7	1.8	1.7	
	55	1.4	1.4	1.6	1.7				1.6		1.7	1.7	1.7	1.7	1.8
	50		1.4	1.5	1.5				1.7	1.8	1.7	1.7	1.7	1.7	1.8
45	1.4	1.4	1.5				1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
40	1.4	1.4				1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
35	1.3				1.7	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
30	1.3				1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
NORTH	25	1.4			1.6	1.7	1.7	1.8	1.7	1.7	1.7	1.7	1.8	1.8	
	20			1.5		1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	
	15		1.5	1.5	1.6	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.9	
	10		1.5		1.6	1.7	1.7	1.8	1.7	1.8	1.8	1.8	1.9	1.9	
	5	1.2	1.5	1.6	1.6	1.6	1.7	1.8	1.8	1.8	1.9	1.9	1.9	1.9	
	37° 0'	1.2	1.4	1.5	1.6	1.7	1.7	1.8	1.9	1.9	1.9	1.9	1.9	1.9	
	55	1.1	1.4	1.6	1.6	1.6	1.7	1.8	1.9	1.9	1.9	1.9	1.9	1.9	
	50		1.3	1.6	1.5	1.6	1.8	1.8	1.9	1.9	1.9	1.9	1.9	2.0	
	45		1.3	1.6	1.5	1.7	1.8	1.9	1.9	1.9	2.0	1.9	1.9	1.9	
	40			1.5	1.6	1.7	1.8	1.9	2.0	2.1	1.9	2.0	1.9	1.9	
	35		1.4	1.6	1.6	1.8	1.8	1.9	1.9	2.0	2.0	1.9	1.9	1.9	
	30	1.4		1.6	1.7	1.8	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	
	25	1.4	1.4	1.6	1.8	1.8	1.8	1.9	2.0	2.0	1.9	2.0	1.9	1.9	
	20			1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.0	1.9	2.0	2.0	
	15			1.7	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.2	
10	1.7				1.8	1.8	1.9	2.0	2.0	2.0	2.1	2.2	2.2		
5	1.6	1.7	1.8	1.8	1.8	1.8	1.9	2.0	2.0	2.2	2.2	2.2	2.3		
36° 0'	1.7	1.7	1.7	1.8		1.8	1.9	2.0	2.2	2.3	2.3	2.3	2.3		
		76° 0'	55	50	45	40	35	30	25	20	15	10	5	75° 0'	
		LONGITUDE WEST													



		LONGITUDE WEST												
		75° 0'	55	50	45	40	35	30	25	20	15	10	5	74° 0'
LATITUDE	39° 0'	1.1			1.1	1.4	1.4	1.7	1.7	1.7	1.6	1.7	1.7	1.5
	55	1.0	0.9	1.1	1.3	1.5	1.5	1.7	1.7	1.6	1.6	1.6	1.7	1.4
	50	0.8	0.8	1.1	1.4	1.4	1.5	1.5	1.6	1.6	1.6	1.7	1.6	1.6
	45	0.7	1.0	1.3	1.3	1.5	1.5	1.5	1.5	1.6	1.6	1.7	1.6	1.7
	40	0.8	1.2	1.3	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.7
	35	1.1	1.3	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.6	1.6	1.7	1.7
	30	1.3	1.2	1.4	1.4	1.4	1.5	1.5	1.5	1.4	1.6	1.7	1.7	1.7
	25	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.4	1.4	1.5	1.7	1.7	1.7
	20	1.5	1.5	1.4	1.4	1.4	1.5	1.4	1.5	1.5	1.5	1.7	1.7	1.8
	15	1.6	1.5	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.6	1.6	1.8	1.8
	10	1.6	1.5	1.4	1.4	1.4	1.4	1.5	1.5	1.6	1.6	1.6	1.6	1.8
	5	1.6	1.5	1.5	1.4	1.4	1.4	1.5	1.5	1.6	1.6	1.6	1.6	1.8
	38° 0'	1.7	1.5	1.5	1.4	1.4	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6
	55	1.8	1.6	1.5	1.5	1.4	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6
	50	1.8	1.7	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.7	1.6
	45	1.7	1.7	1.6	1.6	1.5	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7
	40	1.7	1.8	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7
	35	1.7	1.8	1.8	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7
30	1.7	1.9	1.9	1.8	1.7	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	
NORTH	25	1.8	1.8	1.9	1.8	1.7	1.7	1.6	1.6	1.7	1.7	1.7	1.7	1.7
	20	1.8	1.8	1.9	1.9	1.8	1.7	1.7	1.7	1.6	1.6	1.7	1.7	1.7
	15	1.9	1.8	1.9	2.0	1.8	1.7	1.7	1.7	1.6	1.7	1.7	1.7	1.7
	10	1.9	1.8	1.9	2.0	1.9	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	5	1.9	1.9	1.9	2.0	2.0	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8
	37° 0'	1.9	1.9	1.9	1.9	2.0	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.9
	55	1.9	1.9	1.9	1.9	2.0	1.9	1.8	1.8	1.8	1.7	1.8	1.9	1.9
	50	2.0	1.9	1.9	1.9	2.0	2.0	1.9	1.8	1.8	1.9	1.9	1.9	2.0
	45	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	2.0	1.9	2.0	2.0	2.0
	40	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	35	1.9	1.9	1.9	1.9	2.0	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.0
	30	1.9	1.9	2.0	2.0	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.0	2.0
	25	1.9	2.0	2.1	2.1	2.2	2.2	2.3	2.2	2.1	2.1	2.1	2.1	2.0
	20	2.0	2.1	2.1	2.2	2.2	2.2	2.3	2.2	2.2	2.1	2.1	2.1	2.1
	15	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.1	2.1	2.0
	10	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.1	2.1	2.1
	5	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.1	2.1
	36° 0'	2.3	2.2	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.1	2.1	2.2
		75° 0'	55	50	45	40	35	30	25	20	15	10	5	74° 0'
		LONGITUDE WEST												

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		LONGITUDE WEST												
		74° 0'	55	50	45	40	35	30	25	20	15	10	5	73° 0'
LATITUDE	39° 0'	1.5	1.4	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.7	1.6	1.7	1.7
	55	1.4	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7
	50	1.6	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7
	45	1.7	1.7	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7
	40	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.8	1.6	1.6	1.7	1.7	1.7
	35	1.7	1.7	1.8	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.6	1.7	1.7
	30	1.7	1.8	1.8	1.8	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7
	25	1.7	1.8	1.8	1.8	1.8	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7
	20	1.8	1.8	1.8	1.8	1.8	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7
	15	1.8	1.8	1.8	1.8	1.8	1.8	1.6	1.7	1.7	1.6	1.6	1.6	1.7
	10	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.6	1.6	1.6	1.6	1.7
	5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.6	1.6	1.7	1.6	1.7
	38° 0'	1.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.6	1.7	1.7
	55	1.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7
	50	1.6	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7
	45	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7
	40	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.8	1.9
	35	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.0	1.9	1.9
30	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.9	1.9	2.0	2.0	2.1	2.0	
NORTH	25	1.7	1.7	1.7	1.7	1.7	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.1
	20	1.7	1.7	1.7	1.7	1.7	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.1
	15	1.7	1.7	1.7	1.8	1.8	1.9	2.0	2.1	2.1	2.1	2.1	2.1	2.1
	10	1.7	1.8	1.8	1.9	1.9	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	5	1.8	1.8	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1
	37° 0'	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1
	55	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
	50	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
	45	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.2	2.2	2.1	2.1
	40	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
	35	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.2	2.2	2.1
	30	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.2	2.2
	25	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.3
	20	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3
	15	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3
	10	2.1	2.1	2.0	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	5	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	36° 0'	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.3	2.2	2.2
		74° 0'	55	50	45	40	35	30	25	20	15	10	5	73° 0'
		LONGITUDE WEST												

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		LONGITUDE WEST													
		73° 0'	55	50	45	40	35	30	25	20	15	10	5	72° 0'	
LATITUDE	39° 0'	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.5	
	55	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.5	1.5	1.5	
	50	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.5	
	45	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.5	
	40	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	
	35	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
	30	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.7	1.7	
	25	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	
	20	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.9	
	15	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.9	1.9	1.9	
	10	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.9	1.9	1.9	2.0	
	5	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.9	1.9	1.9	1.9	2.0	1.9	
	38° 0'	1.7	1.7	1.7	1.7	1.7	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0
	55	1.7	1.7	1.7	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0
	50	1.7	1.8	1.8	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0
	45	1.7	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	40	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	35	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	30	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	25	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	20	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	15	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	10	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	5	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
37° 0'	2.1	2.1	2.1	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	
55	2.1	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	
50	2.1	2.1	2.1	2.1	2.2	2.1	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	
45	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	
40	2.1	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
35	2.1	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
30	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	
25	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	
20	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	
15	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	
10	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	
5	2.2	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.4	2.2	2.2	
36° 0'	2.2	2.2	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.2	
		73° 0'	55	50	45	40	35	30	25	20	15	10	5	72° 0'	
		LONGITUDE WEST													

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36Y

9900-1

		LONGITUDE WEST																		
		80° 0'	55	50	45	40	35	30	25	20	15	10	5	79° 0'						
LATITUDE NORTH	36° 0'																			
	55																			
	50																			
	45																			
	40																			
	35																			
	30																			
	25																			
	20																			
	15																			
	10																			
	5																			
	35° 0'																			
	55																			
	50																			
	45																			
	40																			
	35																			
	30																			
	25																			
	20																			
	15																			
	10																			
	5																			
34° 0'																				
55																				
50																				
45																				
40																				
35																				
30														4.1						
25														4.2	4.1					
20														4.2	4.2					
15														4.3	4.1	4.2				
10														4.3	4.2	4.1	4.2			
5														4.3	4.3	4.2	4.1	4.2		
33° 0'														4.2	4.4	4.3	4.3	4.2	4.1	4.2
		80° 0'	55	50	45	40	35	30	25	20	15	10	5	79° 0'						
		LONGITUDE WEST																		

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		LONGITUDE WEST												
		79° 0'	55	50	45	40	35	30	25	20	15	10	5	78° 0'
LATITUDE NORTH	36° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													
	15													
	10													
	5													
	35° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													
15														
10														
5														
34° 0'														
55													4.5	
50						3.9	4.1	4.1	4.2	4.2	4.3	4.4	4.3	
45				4.2	4.2	4.0	4.1	4.1	4.2	4.2	4.3	4.4	4.0	
40			4.2	4.2	4.1	4.0	4.2	4.1	4.2	4.2	4.4	4.3	4.1	
35		4.3	4.2	4.2	4.0	4.2	4.2	4.2	4.2	4.3	4.3	4.2	4.1	
30	4.1	4.2	4.2	4.1	4.0	4.2	4.1	4.2	4.2	4.3	4.2	4.1	4.0	
25	4.1	4.2	4.1	4.2	4.0	4.1	4.1	4.2	4.3	4.3	4.2	4.1	4.1	
20	4.2	4.2	4.1	4.1	4.0	4.1	4.1	4.3	4.3	4.2	4.1	4.2	4.1	
15	4.2	4.1	4.1	4.0	4.0	4.1	4.1	4.3	4.2	4.2	4.1	4.2	4.1	
10	4.2	4.1	4.1	4.0	4.1	4.2	4.2	4.3	4.2	4.1	4.1	4.1	4.0	
5	4.2	4.1	4.1	4.0	4.1	4.2	4.3	4.2	4.2	4.1	4.1	4.1	4.0	
33° 0'	4.2	4.1	4.2	4.0	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.0	4.0	
		79° 0'	55	50	45	40	35	30	25	20	15	10	5	78° 0'
		LONGITUDE WEST												

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		LONGITUDE WEST												
		78° 0'	55	50	45	40	35	30	25	20	15	10	5	77° 0'
LATITUDE NORTH	36° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													
	15													
	10													
	5													
	35° 0'													
	55													
	50													
	45													
	40													
	35									4.1	4.2	4.1	3.9	3.8
	30									4.1	4.1	4.0	3.9	3.8
	25							4.2	3.9	4.1	4.0	4.0	3.9	3.8
	20					4.2	4.2	4.1	3.9	4.1	4.0	4.0	3.8	3.8
	15				4.2	4.1	4.2	4.1	3.9	4.0	4.0	3.9	3.8	3.7
	10				4.1	4.1	4.2	3.9	3.8	4.0	3.9	3.9	3.8	3.7
	5			4.3	4.1	4.1	4.1	3.9	3.8	4.0	3.9	3.9	3.8	3.7
	34° 0'			4.2	4.1	4.1	4.1	3.9	3.8	4.0	3.9	3.9	3.8	3.7
55	4.5	4.2	4.2	4.0	4.1	4.1	3.8	3.8	3.9	3.9	3.9	3.8	3.7	
50	4.3	4.2	4.1	4.0	4.1	4.1	3.8	3.8	3.9	3.9	3.9	3.8	3.7	
45	4.0	4.1	4.1	4.0	4.1	4.1	3.8	3.8	3.9	3.9	3.9	3.8	3.7	
40	4.1	4.1	4.1	4.0	4.1	4.0	3.8	3.8	3.9	3.9	3.9	3.7	3.7	
35	4.1	4.1	4.1	4.0	4.0	4.0	3.8	3.8	3.9	3.9	3.8	3.7	3.7	
30	4.0	4.1	4.0	3.9	4.0	3.9	3.8	3.8	3.9	3.9	3.7	3.7	3.7	
25	4.1	4.1	4.0	3.9	4.0	3.9	3.7	3.7	3.9	3.8	3.7	3.7	3.7	
20	4.1	4.0	3.9	3.9	4.0	3.9	3.7	3.7	3.8	3.8	3.7	3.7	3.6	
15	4.1	4.0	3.9	3.9	4.0	3.9	3.7	3.7	3.8	3.8	3.7	3.7	3.6	
10	4.0	4.0	3.9	3.8	3.9	3.9	3.7	3.8	3.8	3.8	3.7	3.7	3.6	
5	4.0	4.0	3.9	3.8	3.9	3.9	3.7	3.8	3.8	3.8	3.7	3.7	3.6	
33° 0'	4.0	4.0	3.8	3.9	3.9	3.8	3.7	3.8	3.8	3.8	3.7	3.7	3.6	
		78° 0'	55	50	45	40	35	30	25	20	15	10	5	77° 0'
		LONGITUDE WEST												

39Y

		LONGITUDE WEST												
		77° 0'	55	50	45	40	35	30	25	20	15	10	5	76° 0'
LATITUDE	36° 0'					2.2	2.3	2.4	2.2	2.2	2.1	2.0	1.7	1.7
	55													1.8
	50													1.8
	45													1.9
	40												2.0	
	35													
	30						2.5							
	25			2.7	2.8		2.6		2.7					2.3
	20				2.7		2.6	2.7	2.8	2.8	2.9	2.9	2.7	2.3
	15							2.8	2.9	3.0	2.8	2.8	2.6	2.4
	10							2.7	3.0	3.1	3.0	2.8	2.7	2.4
	5							3.1	3.0	2.9	3.0	2.8	2.6	
	35° 0'		3.3			3.1	2.9		2.9		2.7	2.8	2.8	2.6
	55					3.1				3.2	3.0	3.0	2.9	2.7
	50								3.2		3.0	3.0	2.9	2.7
	45									3.3	3.1	3.0	3.0	2.7
	40		3.9	3.8	3.7	3.5	3.4		3.3	3.3	3.1	3.0	3.0	2.8
	35	3.8	3.8	3.8	3.7	3.5	3.4	3.5	3.4	3.3	3.2	3.0	3.0	2.8
30	3.8	3.8	3.8	3.6	3.5	3.4	3.4	3.4	3.3	3.2	3.0	3.0	2.8	
NORTH	25	3.8	3.7	3.7	3.6	3.4	3.4	3.4	3.4	3.3	3.2	3.0	3.0	2.9
	20	3.8	3.7	3.7	3.6	3.4	3.4	3.4	3.3	3.3	3.2	3.0	3.0	2.9
	15	3.7	3.7	3.7	3.6	3.4	3.3	3.4	3.4	3.3	3.2	3.0	3.0	2.9
	10	3.7	3.7	3.7	3.6	3.4	3.3	3.4	3.4	3.3	3.2	3.0	3.0	2.9
	5	3.7	3.7	3.7	3.6	3.4	3.3	3.4	3.4	3.3	3.2	3.0	3.0	2.9
	34° 0'	3.7	3.7	3.7	3.6	3.4	3.3	3.4	3.4	3.3	3.2	3.0	3.0	2.9
	55	3.7	3.7	3.7	3.6	3.4	3.3	3.4	3.4	3.3	3.2	3.0	3.0	2.9
	50	3.7	3.7	3.7	3.6	3.4	3.3	3.4	3.4	3.3	3.2	3.1	3.0	2.9
	45	3.7	3.7	3.7	3.6	3.4	3.4	3.4	3.4	3.3	3.3	3.1	3.0	2.9
	40	3.7	3.6	3.6	3.6	3.4	3.3	3.4	3.4	3.3	3.3	3.1	3.0	3.0
	35	3.7	3.6	3.6	3.6	3.4	3.3	3.4	3.4	3.3	3.3	3.1	3.0	3.0
	30	3.7	3.6	3.6	3.6	3.4	3.3	3.4	3.4	3.3	3.3	3.1	3.0	3.0
	25	3.7	3.6	3.6	3.6	3.4	3.3	3.4	3.4	3.3	3.3	3.1	3.0	3.0
	20	3.6	3.6	3.6	3.5	3.4	3.3	3.4	3.4	3.3	3.3	3.1	3.0	3.0
	15	3.6	3.6	3.6	3.6	3.4	3.3	3.4	3.4	3.3	3.3	3.1	3.0	3.0
	10	3.6	3.6	3.6	3.5	3.4	3.3	3.4	3.4	3.3	3.3	3.1	3.0	3.0
	5	3.6	3.6	3.6	3.5	3.4	3.3	3.4	3.4	3.3	3.3	3.2	3.0	3.0
	33° 0'	3.6	3.6	3.6	3.5	3.4	3.3	3.3	3.3	3.3	3.3	3.1	3.0	3.0
		77° 0'	55	50	45	40	35	30	25	20	15	10	5	76° 0'
		LONGITUDE WEST												

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		LONGITUDE WEST												
		76° 0'	55	50	45	40	35	30	25	20	15	10	5	75° 0'
LATITUDE	36° 0'	1.7	1.7	1.7	1.8		1.8	1.9	2.0	2.2	2.3	2.3	2.3	2.3
	55	1.8			1.8		1.8	2.1	2.2	2.2	2.3	2.4	2.3	2.3
	50	1.8				2.1		2.2	2.3	2.3	2.3	2.3	2.3	2.3
	45	1.9				2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3
	40				2.2	2.3	2.2	2.3	2.3	2.3	2.3	2.4	2.3	2.3
	35			2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.4	2.3
	30		2.2	2.2	2.3	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4
	25	2.3	2.3	2.3	2.3	2.3	2.3		2.3	2.3	2.4	2.5	2.5	2.5
	20	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.5	2.5	2.5	2.5	2.5
	15	2.4	2.4	2.3	2.3	2.3		2.5	2.6	2.5	2.5	2.5	2.6	2.5
	10	2.4	2.4	2.2	2.4	2.5	2.6	2.5	2.6	2.6	2.6	2.5	2.6	2.6
	5		2.5	2.5	2.4	2.6	2.6	2.6	2.6	2.5	2.6	2.6	2.6	2.6
	35° 0'	2.6	2.6	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	55	2.7	2.6	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6
50	2.7	2.6	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
45	2.7	2.6	2.5	2.5	2.5	2.6	2.6	2.5	2.6	2.6	2.6	2.6	2.6	
40	2.8	2.6	2.5	2.5	2.5	2.6	2.6	2.5	2.6	2.6	2.6	2.6	2.6	
35	2.8	2.6	2.5	2.5	2.5	2.6	2.6	2.5	2.6	2.6	2.6	2.6	2.6	
30	2.8	2.6	2.6	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
NORTH	25	2.9	2.6	2.6	2.6	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	20	2.9	2.6	2.6	2.6	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6
	15	2.9	2.6	2.6	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6
	10	2.9	2.6	2.6	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	5	2.9	2.7	2.6	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	34° 0'	2.9	2.7	2.6	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	55	2.9	2.7	2.6	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	50	2.9	2.7	2.6	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	45	2.9	2.7	2.6	2.6	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	40	3.0	2.8	2.6	2.6	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6
	35	3.0	2.8	2.6	2.6	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6
	30	3.0	2.8	2.6	2.6	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6
	25	3.0	2.8	2.6	2.6	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6
	20	3.0	2.9	2.6	2.6	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6
15	3.0	2.9	2.6	2.6	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	
10	3.0	2.9	2.6	2.6	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	
5	3.0	2.9	2.7	2.6	2.5	2.5	2.5	2.6	2.5	2.6	2.6	2.6	2.6	
33° 0'	3.0	2.9	2.7	2.6	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	
		76° 0'	55	50	45	40	35	30	25	20	15	10	5	75° 0'
		LONGITUDE WEST												



		LONGITUDE WEST													
		75° 0'	55	50	45	40	35	30	25	20	15	10	5	74° 0'	
LATITUDE	36° 0'	2.3	2.2	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.1	2.1	2.2	
	55	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.2	
	50	2.3	2.3	2.3	2.2	2.2	2.3	2.2	2.3	2.4	2.4	2.3	2.3	2.3	
	45	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.4	2.5	2.5	2.4	2.3	2.3	
	40	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.3	
	35	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.4	
	30	2.4	2.5	2.5	2.4	2.5	2.5	2.4	2.4	2.4	2.5	2.5	2.4	2.4	
	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.5	2.5	2.5	2.4	
	20	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	
	15	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	10	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	5	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	35° 0'	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	55	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	50	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	45	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	
	40	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	35	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	30	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	NORTH	25	2.6	2.6	2.7	2.6	2.6	2.6	2.5	2.6	2.5	2.5	2.5	2.5	2.5
20		2.6	2.6	2.7	2.6	2.6	2.6	2.5	2.6	2.5	2.5	2.5	2.5	2.5	
15		2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.6	2.5	2.5	2.5	2.5	2.5	
10		2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
5		2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	
34° 0'		2.6	2.6	2.6	2.7	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	
55		2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	
50		2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	
45		2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	
40		2.6	2.6	2.6	2.6	2.7	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	
35		2.6	2.6	2.6	2.6	2.7	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	
30		2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	
25		2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	
20		2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	
15		2.6	2.6	2.6	2.6	2.6	2.7	2.6	2.6	2.6	2.5	2.5	2.5	2.5	
10		2.6	2.6	2.6	2.6	2.6	2.7	2.6	2.6	2.6	2.5	2.5	2.5	2.5	
5		2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	
33° 0'		2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	
		75° 0'	55	50	45	40	35	30	25	20	15	10	5	74° 0'	
		LONGITUDE WEST													

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		LONGITUDE WEST												
		82° 0'	55	50	45	40	35	30	25	20	15	10	5	81° 0'
LATITUDE NORTH	33° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													
	15													
	10													
	5													
	32° 0'													
	55													
	50												4.6	4.8
	45												4.9	4.7
	40												4.7	4.6
	35												4.7	4.6
	30											4.7	4.6	4.5
	25										5.0	4.6	4.6	4.5
	20										4.8	4.6	4.5	4.5
	15										4.7	4.6	4.5	4.4
	10									4.9	4.7	4.6	4.5	4.4
	5									4.8	4.6	4.5	4.4	4.4
31° 0'								5.0	4.7	4.6	4.5	4.4	4.4	
55										4.6	4.5	4.4	4.4	
50								4.7	4.6	4.5	4.4	4.4	4.4	
45								4.7	4.6	4.5	4.4	4.4	4.4	
40								4.6	4.5	4.4	4.4	4.4	4.3	
35								4.6	4.5	4.4	4.4	4.4	4.3	
30								4.5	4.5	4.4	4.4	4.3	4.3	
25									4.4	4.4	4.3	4.3	4.3	
20									4.4	4.4	4.3	4.3	4.3	
15									4.4	4.3	4.3	4.3	4.3	
10									4.3	4.3	4.3	4.3	4.3	
5									4.3	4.3	4.3	4.3	4.2	
30° 0'										4.3	4.3	4.3	4.2	
		82° 0'	55	50	45	40	35	30	25	20	15	10	5	81° 0'
		LONGITUDE WEST												

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		LONGITUDE WEST												
		81° 0'	55	50	45	40	35	30	25	20	15	10	5	80° 0'
LATITUDE	33° 0'													
	55													
	50													
	45													
	40													
	35												4.1	4.4
	30						3.8	3.8	3.9		4.1	4.3	4.4	4.4
	25								4.1	4.1	4.4	4.5	4.4	4.4
	20				3.9				4.3	4.4	4.4	4.4	4.4	4.3
	15					4.0	4.2	4.5	4.4	4.4	4.4	4.4	4.3	4.3
	10					4.3	4.6	4.5	4.4	4.4	4.4	4.4	4.3	4.4
	5			4.3	4.5	4.6	4.5	4.4	4.4	4.4	4.4	4.4	4.3	4.4
	32° 0'			4.5	4.5	4.5	4.5	4.4	4.4	4.4	4.4	4.4	4.3	4.3
	55		4.7	4.6	4.5	4.5	4.5	4.4	4.4	4.4	4.4	4.3	4.3	4.3
	50	4.8	4.6	4.5	4.5	4.5	4.4	4.4	4.4	4.4	4.4	4.3	4.3	4.3
	45	4.7	4.5	4.5	4.4	4.4	4.4	4.4	4.4	4.4	4.3	4.3	4.3	4.3
	40	4.6	4.5	4.5	4.5	4.4	4.4	4.3	4.4	4.3	4.3	4.3	4.3	4.3
	35	4.6	4.5	4.5	4.5	4.4	4.3	4.3	4.3	4.3	4.3	4.2	4.3	4.3
	30	4.5	4.4	4.4	4.4	4.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	NORTH	25	4.5	4.5	4.4	4.4	4.3	4.3	4.3	4.3	4.3	4.2	4.3	4.3
20		4.5	4.4	4.4	4.4	4.3	4.3	4.3	4.3	4.2	4.2	4.3	4.3	4.2
15		4.4	4.4	4.4	4.3	4.3	4.3	4.3	4.3	4.2	4.2	4.3	4.3	4.2
10		4.4	4.4	4.4	4.3	4.3	4.3	4.3	4.3	4.2	4.3	4.3	4.3	4.2
5		4.4	4.4	4.4	4.3	4.3	4.3	4.3	4.3	4.2	4.3	4.3	4.2	4.2
31° 0'		4.4	4.4	4.3	4.3	4.3	4.3	4.3	4.2	4.2	4.3	4.3	4.2	4.2
55		4.4	4.4	4.3	4.3	4.3	4.3	4.2	4.2	4.3	4.3	4.3	4.2	4.2
50		4.4	4.3	4.3	4.3	4.3	4.3	4.2	4.2	4.2	4.3	4.3	4.2	4.3
45		4.4	4.3	4.3	4.2	4.3	4.2	4.2	4.2	4.2	4.3	4.3	4.2	4.3
40		4.3	4.3	4.3	4.2	4.2	4.2	4.2	4.2	4.3	4.3	4.2	4.2	4.3
35	4.3	4.3	4.3	4.2	4.2	4.2	4.2	4.2	4.3	4.3	4.3	4.3	4.3	
30	4.3	4.3	4.3	4.2	4.2	4.2	4.2	4.2	4.3	4.3	4.3	4.3	4.2	
25	4.3	4.3	4.2	4.2	4.2	4.2	4.2	4.2	4.3	4.3	4.2	4.3	4.2	
20	4.3	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.3	4.3	4.3	4.2	4.2	
15	4.3	4.2	4.2	4.2	4.2	4.2	4.2	4.3	4.3	4.3	4.3	4.2	4.2	
10	4.3	4.2	4.2	4.2	4.2	4.2	4.2	4.3	4.3	4.3	4.3	4.2	4.2	
5	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.2	
30° 0'	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.2	
		81° 0'	55	50	45	40	35	30	25	20	15	10	5	80° 0'
		LONGITUDE WEST												

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		LONGITUDE WEST												
		80° 0'	55	50	45	40	35	30	25	20	15	10	5	79° 0'
LATITUDE	33° 0'						4.2		4.4	4.3	4.3	4.2	4.1	4.2
	55						4.3	4.4	4.4	4.3	4.2	4.1	4.2	4.2
	50					4.5	4.4	4.4	4.4	4.3	4.2	4.1	4.2	4.1
	45			4.3	4.5	4.4	4.3	4.3	4.3	4.2	4.2	4.1	4.2	4.1
	40		4.4	4.5	4.4	4.3	4.3	4.3	4.3	4.3	4.1	4.0	4.2	4.1
	35	4.4	4.4	4.4	4.4	4.3	4.3	4.3	4.3	4.3	4.1	4.0	4.1	4.1
	30	4.4	4.4	4.4	4.4	4.3	4.3	4.3	4.2	4.2	4.1	4.2	4.1	4.1
	25	4.4	4.4	4.4	4.3	4.3	4.3	4.3	4.2	4.1	4.1	4.2	4.1	4.1
	20	4.3	4.4	4.4	4.3	4.3	4.3	4.2	4.2	4.1	4.1	4.2	4.1	4.1
	15	4.3	4.4	4.3	4.3	4.3	4.3	4.2	4.2	4.1	4.0	4.2	4.1	4.1
	10	4.4	4.4	4.4	4.3	4.3	4.3	4.2	4.2	4.1	4.0	4.2	4.1	4.1
	5	4.4	4.4	4.3	4.3	4.3	4.3	4.2	4.1	4.1	4.2	4.2	4.1	4.2
	32° 0'	4.4	4.3	4.3	4.3	4.3	4.2	4.2	4.1	4.1	4.2	4.1	4.1	4.1
	55	4.3	4.3	4.3	4.3	4.3	4.2	4.2	4.1	4.1	4.2	4.1	4.1	4.1
	50	4.3	4.3	4.2	4.3	4.2	4.2	4.2	4.1	4.1	4.2	4.1	4.1	3.9
	45	4.3	4.3	4.2	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.1	4.1	3.9
	40	4.3	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.2	4.1	4.1	4.0	3.9
	35	4.3	4.3	4.2	4.3	4.2	4.2	4.2	4.1	4.2	4.1	4.1	4.1	3.9
30	4.3	4.2	4.3	4.2	4.2	4.3	4.2	4.1	4.2	4.1	4.0	4.0	3.9	
NORTH	25	4.3	4.2	4.2	4.2	4.2	4.3	4.1	4.1	4.2	4.1	4.0	4.0	3.9
	20	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.0	4.1	4.1	4.0	3.9	3.9
	15	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.0	4.0	3.9	3.9
	10	4.2	4.2	4.3	4.2	4.2	4.1	4.1	4.1	4.1	4.0	4.0	3.9	3.8
	5	4.2	4.2	4.3	4.2	4.2	4.1	4.1	4.1	4.1	4.0	4.0	3.9	4.0
	31° 0'	4.2	4.3	4.3	4.2	4.2	4.1	4.0	4.1	4.0	4.0	4.0	3.8	3.9
	55	4.2	4.3	4.2	4.2	4.2	4.1	4.0	4.1	4.0	4.0	4.0	3.9	3.9
	50	4.3	4.3	4.2	4.2	4.1	4.1	4.0	4.1	4.0	4.0	3.9	3.8	3.9
	45	4.3	4.3	4.2	4.2	4.1	4.0	4.1	4.1	4.0	4.0	3.9	3.8	3.9
	40	4.3	4.2	4.2	4.2	4.1	4.0	4.1	4.1	4.0	4.0	3.9	3.8	3.9
	35	4.3	4.2	4.2	4.2	4.1	4.0	4.1	4.0	4.0	4.0	3.8	3.9	3.9
	30	4.2	4.2	4.2	4.2	4.1	4.0	4.1	4.0	4.0	4.0	3.8	3.9	3.9
	25	4.2	4.2	4.2	4.1	4.1	4.0	4.1	4.0	4.0	4.0	3.8	3.9	3.9
	20	4.2	4.2	4.2	4.1	4.0	4.1	4.0	4.0	4.0	3.9	3.8	3.9	3.9
	15	4.2	4.2	4.2	4.1	4.0	4.1	4.0	4.0	4.0	3.8	3.8	3.9	3.9
	10	4.2	4.2	4.2	4.1	4.0	4.1	4.0	4.0	4.0	3.8	3.8	3.9	3.9
	5	4.2	4.2	4.1	4.1	4.0	4.1	4.0	4.0	4.0	3.8	3.9	3.9	3.9
	30° 0'	4.2	4.2	4.1	4.1	4.0	4.1	4.0	4.0	4.0	3.8	3.9	3.9	3.9
		80° 0'	55	50	45	40	35	30	25	20	15	10	5	79° 0'
		LONGITUDE WEST												

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		LONGITUDE WEST												78° 0'	
		79° 0'	55	50	45	40	35	30	25	20	15	10	5		
LATITUDE	33° 0'	4.2	4.1	4.2	4.0	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.0	4.0	
	55	4.2	4.1	4.1	4.0	4.2	4.2	4.2	4.1	4.1	4.0	4.1	4.0	4.0	
	50	4.1	4.1	4.1	4.0	4.2	4.2	4.2	4.1	4.1	4.0	4.1	4.0	4.0	
	45	4.1	4.1	4.0	4.1	4.2	4.1	4.1	4.1	4.0	4.0	4.1	4.0	3.9	
	40	4.1	4.1	4.1	4.2	4.1	4.1	4.1	4.0	4.0	4.1	4.1	4.0	3.9	
	35	4.1	4.1	4.0	4.2	4.1	4.0	4.1	4.0	4.0	4.1	4.1	4.0	3.9	
	30	4.1	4.2	4.0	4.1	4.1	4.1	4.1	4.0	4.0	4.0	4.1	4.0	3.9	
	25	4.1	4.2	4.0	4.1	4.0	4.1	4.0	4.0	4.0	4.0	4.1	3.9	3.9	
	20	4.1	4.0	4.0	4.1	4.0	4.1	4.0	4.0	4.0	4.0	4.0	3.9	3.9	
	15	4.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	
LATITUDE	10	4.1	4.0	4.1	4.0	4.0	4.0	4.0	3.9	4.0	4.0	3.9	3.9	3.9	
	5	4.2	4.0	4.0	4.0	4.0	4.0	3.9	4.0	4.0	4.0	3.9	3.9	3.9	
	32° 0'	4.1	3.9	4.0	4.0	4.0	4.0	3.9	4.0	4.0	4.0	3.9	3.9	3.8	
	55	4.1	3.9	4.0	4.0	4.0	4.0	3.9	4.0	4.0	4.0	3.9	3.9	3.8	
	50	3.9	3.9	4.0	4.0	4.0	4.0	3.9	4.0	4.0	4.0	3.9	3.9	3.8	
	45	3.9	3.9	4.0	3.9	4.0	3.9	3.9	4.0	4.0	4.0	3.9	3.9	3.8	
	40	3.9	4.0	4.0	3.9	4.0	3.9	4.0	4.0	4.0	4.0	3.9	3.9	3.8	
	35	3.9	4.0	4.0	3.9	3.9	3.9	4.0	4.0	4.0	4.0	3.9	3.9	3.8	
	30	3.9	4.0	3.9	3.9	3.9	3.9	4.0	4.0	4.0	3.9	3.9	3.9	3.8	
	NORTH	25	3.9	4.0	3.9	4.0	3.9	3.9	4.0	4.0	4.0	3.9	3.9	3.8	3.8
20		3.9	4.0	3.9	3.9	3.9	4.0	4.0	4.0	4.0	3.9	3.9	3.8	3.8	
15		3.9	4.0	3.9	4.0	3.9	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8	
10		3.8	3.9	3.8	3.9	3.9	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8	
5		4.0	3.9	3.9	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.7	
31° 0'		3.9	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.7	
55		3.9	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.7	
50		3.9	3.9	4.0	3.9	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.7	
45		3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8	3.7	
40		3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8	3.7	
NORTH	35	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8	3.7	
	30	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8	3.7	
	25	3.9	3.9	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8	3.7	
	20	3.9	3.9	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.8	3.8	3.7	
	15	3.9	3.9	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.8	3.7	3.7	
	10	3.9	3.9	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.8	3.7	3.7	
	5	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.8	3.7	3.7	
	30° 0'	3.9	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8	3.7	3.7	
			79° 0'	55	50	45	40	35	30	25	20	15	10	5	78° 0'
			LONGITUDE WEST												

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		LONGITUDE WEST												
		78° 0'	55	50	45	40	35	30	25	20	15	10	5	77° 0'
LATITUDE	33° 0'	4.0	4.0	3.8	3.9	3.9	3.8	3.7	3.8	3.8	3.8	3.7	3.7	3.6
	55	4.0	3.9	3.8	3.9	3.9	3.7	3.7	3.8	3.8	3.8	3.6	3.6	3.6
	50	4.0	3.9	3.8	3.9	3.9	3.7	3.6	3.8	3.8	3.7	3.6	3.6	3.6
	45	3.9	3.9	3.8	3.9	3.9	3.7	3.6	3.8	3.8	3.7	3.6	3.6	3.6
	40	3.9	3.9	3.8	3.9	3.9	3.7	3.6	3.8	3.8	3.7	3.6	3.6	3.6
	35	3.9	3.9	3.8	3.9	3.9	3.6	3.6	3.8	3.7	3.7	3.6	3.6	3.6
	30	3.9	3.8	3.8	3.9	3.9	3.6	3.6	3.8	3.7	3.7	3.6	3.6	3.6
	25	3.9	3.8	3.8	3.9	3.9	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.6
	20	3.9	3.8	3.7	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	15	3.9	3.8	3.7	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	10	3.9	3.8	3.7	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.6
	5	3.9	3.7	3.7	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.6
	32° 0'	3.8	3.8	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	55	3.8	3.7	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	50	3.8	3.7	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	45	3.8	3.7	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	40	3.8	3.7	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	35	3.8	3.7	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	30	3.8	3.7	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	25	3.8	3.7	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	20	3.8	3.7	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	15	3.8	3.7	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	10	3.8	3.7	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	5	3.7	3.7	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	31° 0'	3.7	3.8	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
NORTH	55	3.7	3.8	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	50	3.7	3.8	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	45	3.7	3.8	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	40	3.7	3.8	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	35	3.7	3.8	3.8	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.5
	30	3.7	3.8	3.8	3.7	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.6	3.5
25	3.7	3.8	3.8	3.6	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.6	3.5	
20	3.7	3.8	3.8	3.6	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.6	3.5	
15	3.7	3.8	3.8	3.6	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.6	3.5	
10	3.7	3.8	3.8	3.6	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.6	3.5	
5	3.7	3.8	3.8	3.6	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.6	3.5	
30° 0'	3.7	3.8	3.8	3.6	3.6	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.5	
		78° 0'	55	50	45	40	35	30	25	20	15	10	5	77° 0'
		LONGITUDE WEST												