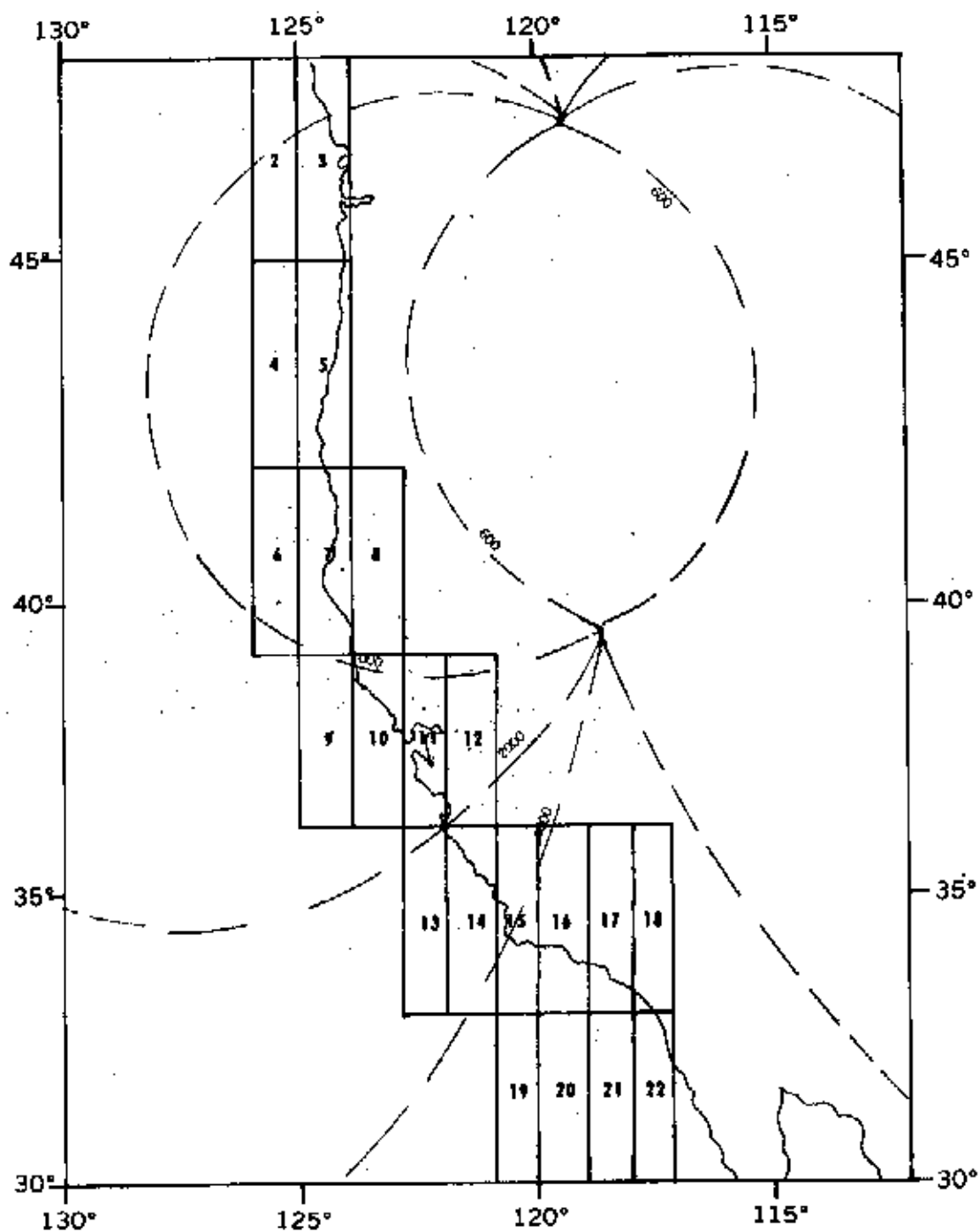


## PAGE INDEX FOR SECONDARY PHASE CORRECTIONS FOR 9940-W



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 wave expansion in feet per microsecond.



9940-W

3W

		LONGITUDE WEST													
		125° 0'	55	50	45	40	35	30	25	20	15	10	5	124° 0'	
LATITUDE	48° 0'	1.3	1.3	1.4	1.5										
	55	1.4	1.3	1.3	1.4	1.4									
	50	1.4	1.4	1.4	1.4	1.5	1.5								
	45	1.4	1.4	1.4	1.4	1.5	1.6	1.6							
	40	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6						
	35	1.5	1.5	1.5	1.6	1.6	1.6	1.7	1.8						
	30	1.7	1.6	1.6	1.6	1.7	1.7	1.7	1.8						
	25	1.6	1.7	1.7	1.7	1.6	1.7	1.7	1.8	2.0					
	20	1.9	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.1					
	15	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1				
LATITUDE	10	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0				
	5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0				
	47° 0'	1.8	1.9	1.9	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.1	2.1		
	55	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.0	2.1	
	50	1.7	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8			
	45	1.9	1.8	1.8	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.9			
	40	1.8	1.9	1.8	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.9	1.8	
	35	1.7	1.7	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.7	
	30	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.9	1.9	
	NORTH	25	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.5	1.5
20		1.8	1.8	1.8	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5		
15		1.5	1.6	1.6	1.6	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	
10		1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7	
5		1.6	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.7	1.6	1.7	1.7	1.7	
46° 0'		1.6	1.6	1.5	1.5	1.7	1.6	1.6	1.6	1.6	1.7	1.6	1.7	1.7	
55		1.6	1.6	1.6	1.5	1.5	1.6	1.6	1.7	1.6	1.6	1.7	1.5	1.6	
50		1.6	1.6	1.6	1.6	1.6	1.5	1.6	1.6	1.6	1.6	1.6	1.7	1.5	
45		1.4	1.5	1.6	1.6	1.6	1.5	1.5	1.6	1.6	1.5	1.4	1.5	1.6	
40		1.5	1.4	1.5	1.6	1.6	1.6	1.4	1.4	1.5	1.6	1.5	1.4	1.3	
NORTH	35	1.5	1.5	1.3	1.4	1.5	1.5	1.5	1.4	1.4	1.3	1.3	1.3	1.2	
	30	1.4	1.4	1.4	1.3	1.4	1.5	1.3	1.3	1.2	1.1	1.2	1.2	1.4	
	25	1.3	1.4	1.3	1.2	1.1	1.2	1.3	1.2	1.2	1.2	1.2	1.2	1.3	
	20	1.3	1.2	1.2	1.2	1.2	1.0	1.2	1.3	1.3	1.3	1.2	1.2		
	15	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.2	1.3	1.4	1.4	1.4	1.4	
	10	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.5	1.5	1.5	1.5	
	5	1.2	1.2	1.2	1.2	1.3	1.2	1.3	1.4	1.4	1.4	1.4	1.5	1.5	
	45° 0'	1.2	1.2	1.2	1.2	1.3	1.4	1.4	1.4	1.3	1.3	1.1	1.3		
			125° 0'	55	50	45	40	35	30	25	20	15	10	5	124° 0'
			LONGITUDE WEST												



9B40-W

5W

		LONGITUDE WEST												
		125° 0'	55	50	45	40	35	30	25	20	15	10	5	124° 0'
LATITUDE	45° 0'	1.2	1.2	1.2	1.2	1.3	1.4	1.4	1.4	1.3	1.3	1.1	1.3	
	55	1.2	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.2	1.2	1.3	1.2	
	50	1.2	1.3	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4	
	45	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.3	1.3	1.3	
	40	1.2	1.2	1.2	1.2	1.3	1.4	1.4	1.4	1.3	1.3	1.4	1.4	
	35	1.1	1.1	1.1	1.2	1.2	1.3	1.4	1.4	1.4	1.5	1.5	1.6	
	30	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.5	1.6	1.6	1.5	1.6	
	25	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.5	1.5	1.7	1.7	1.7	
	20	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.7		
	15	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.5		
	10	1.0	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.4	1.3		
	5	1.1	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.2	1.3		
	44° 0'	1.1	1.2	1.2	1.2	1.2	1.3	1.3	1.2	1.1	1.2	1.2		
	55	1.2	1.1	1.2	1.2	1.2	1.3	1.1	1.2	1.2	1.2	1.3		
50	1.2	1.2	1.2	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.2			
45	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.2	1.3	1.2				
40	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.1				
35	1.2	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.0				
30	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.0	1.0				
NORTH	25	1.2	1.2	1.3	1.3	1.2	1.0	1.0	1.0	1.0	1.0			
	20	1.2	1.3	1.3	1.3	1.2	1.1	1.0	1.0					
	15	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1.0					
	10	1.3	1.2	1.2	1.1	1.1	1.2	1.2	1.1					
	5	1.1	1.2	1.2	1.1	1.1	1.1	1.2						
	43° 0'	1.1	1.1	1.1	1.1	1.1	1.1	1.2						
	55	0.9	1.0	1.0	1.0	1.0	1.1	1.1						
	50	1.0	0.9	0.9	0.9	1.0	0.9							
	45	0.9	0.9	0.9	0.8	0.7	0.6							
	40	0.9	0.8	0.8	0.7	0.6	0.6	0.5						
35	0.9	0.9	0.8	0.6	0.6	0.6	0.6	0.6						
30	0.8	0.7	0.6	0.6	0.6	0.5	0.5	0.5						
25	0.7	0.6	0.6	0.6	0.5	0.5	0.5							
20	0.5	0.6	0.6	0.5	0.5	0.4	0.3							
15	0.5	0.5	0.4	0.5	0.4	0.3	0.2	0.3						
10	0.5	0.5	0.5	0.4	0.2	0.2	0.2	0.2						
5	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.0						
42° 0'	0.4	0.3	0.3	0.2	0.1	0.1	0.2	0.0	-0.0	0.0				
		125° 0'	55	50	45	40	35	30	25	20	15	10	5	124° 0'
		LONGITUDE WEST												

9940-W

[illegible]

9940-W

7W

[illegible]

8VW

9940-W

		LONGITUDE WEST												
		124° 0'	55	50	45	40	35	30	25	20	15	10	5	123° 0'
LATITUDE  NORTH	42° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													
	15													
	10													
	5													
	41° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													
	15													
	10													
	5													
40° 0'														
55	-1.0													
50	-1.0	-1.0												
45	-1.0	-0.9	-1.0											
40	-1.0	-1.0	-1.0											
35	-0.9	-0.9	-0.9											
30	-0.9	-0.9	-0.9											
25	-0.9	-0.9	-0.9											
20	-0.9	-0.9	-1.0											
15	-0.9	-0.9	-1.1											
10	-0.9	-1.0	-0.9	-0.9										
5	-0.8	-0.9	-0.8	-0.8										
39° 0'	-0.9	-0.9	-0.8	-0.8										
		124° 0'	55	50	45	40	35	30	25	20	15	10	5	123° 0'
		LONGITUDE WEST												



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9W

		LONGITUDE WEST												
		125° 0'	55	50	45	40	35	30	25	20	15	10	5	124° 0'
LATITUDE	39° 0'	-0.9	-0.9	-0.8	-0.9	-0.8	-0.8	-0.8	-0.8	-0.9	-0.8	-0.8	-0.8	-0.9
	55	-0.9	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.9
	50	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.9	-0.9	-0.9	-0.9	-1.0	-1.0
	45	-0.8	-0.8	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-1.0	-1.0
	40	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-1.0	-1.0	-1.0
	35	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-1.1	-1.1	-1.1
	30	-0.9	-0.9	-0.9	-0.9	-0.9	-1.0	-1.0	-1.0	-1.0	-1.1	-1.2	-1.1	-1.1
	25	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.1	-1.2	-1.1	-1.1
	20	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.1	-1.2	-1.1	-1.1	-1.2
	15	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.1	-1.2	-1.1	-1.2	-1.3
	10	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.1	-1.2	-1.2	-1.2	-1.2	-1.2
	5	-1.0	-1.0	-1.0	-1.1	-1.1	-1.1	-1.1	-1.2	-1.2	-1.1	-1.2	-1.2	-1.3
	38° 0'	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.2	-1.2	-1.2	-1.2	-1.3	-1.4
	55	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.2	-1.2	-1.2	-1.2	-1.3	-1.4	-1.5
	50	-1.1	-1.1	-1.1	-1.2	-1.1	-1.2	-1.3	-1.3	-1.3	-1.3	-1.4	-1.4	-1.5
NORTH	45	-1.1	-1.2	-1.1	-1.2	-1.2	-1.2	-1.3	-1.3	-1.3	-1.3	-1.4	-1.4	-1.5
	40	-1.2	-1.2	-1.2	-1.2	-1.2	-1.3	-1.3	-1.3	-1.3	-1.4	-1.4	-1.4	-1.4
	35	-1.2	-1.2	-1.2	-1.2	-1.2	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3
	30	-1.2	-1.2	-1.2	-1.2	-1.3	-1.3	-1.3	-1.2	-1.2	-1.2	-1.3	-1.4	-1.4
	25	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.1	-1.2	-1.2	-1.3	-1.5	-1.5
	20	-1.2	-1.2	-1.2	-1.2	-1.2	-1.1	-1.2	-1.2	-1.3	-1.4	-1.5	-1.5	-1.7
	15	-1.2	-1.1	-1.1	-1.1	-1.2	-1.2	-1.2	-1.4	-1.4	-1.5	-1.6	-1.6	-1.7
	10	-1.1	-1.1	-1.2	-1.2	-1.2	-1.3	-1.3	-1.4	-1.5	-1.6	-1.6	-1.7	-1.7
	5	-1.1	-1.1	-1.3	-1.3	-1.3	-1.4	-1.4	-1.5	-1.6	-1.6	-1.6	-1.6	-1.7
	37° 0'	-1.2	-1.2	-1.3	-1.4	-1.4	-1.4	-1.5	-1.5	-1.6	-1.6	-1.6	-1.7	-1.7
	55	-1.2	-1.4	-1.4	-1.4	-1.4	-1.5	-1.5	-1.5	-1.6	-1.6	-1.7	-1.7	-1.6
	50	-1.3	-1.4	-1.4	-1.4	-1.4	-1.5	-1.5	-1.5	-1.6	-1.6	-1.6	-1.6	-1.6
	45	-1.4	-1.5	-1.4	-1.4	-1.4	-1.5	-1.6	-1.6	-1.5	-1.5	-1.6	-1.6	-1.6
	40	-1.5	-1.4	-1.4	-1.4	-1.5	-1.5	-1.5	-1.5	-1.6	-1.6	-1.6	-1.6	-1.5
	35	-1.4	-1.4	-1.5	-1.4	-1.5	-1.4	-1.4	-1.5	-1.6	-1.6	-1.5	-1.5	-1.5
30	-1.5	-1.4	-1.4	-1.4	-1.4	-1.4	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	
25	-1.5	-1.4	-1.4	-1.4	-1.4	-1.5	-1.5	-1.5	-1.4	-1.5	-1.5	-1.4	-1.4	
20	-1.4	-1.4	-1.4	-1.5	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	
15	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.3	-1.3	
10	-1.4	-1.4	-1.4	-1.3	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.3	-1.3	-1.3	
5	-1.4	-1.3	-1.3	-1.3	-1.4	-1.4	-1.4	-1.4	-1.3	-1.3	-1.3	-1.3	-1.2	
36° 0'	-1.3	-1.3	-1.3	-1.3	-1.3	-1.4	-1.3	-1.4	-1.3	-1.3	-1.3	-1.3	-1.2	
		125° 0'	55	50	45	40	35	30	25	20	15	10	5	124° 0'
		LONGITUDE WEST												

9940-W

		LONGITUDE WEST													
		124° 0'	55	50	45	40	35	30	25	20	15	10	5	123° 0'	
LATITUDE	39° 0'	-0.9	-0.9	-0.8	-0.8										
	55	-0.9	-0.8	-0.8	-0.9										
	50	-1.0	-1.0	-1.0	-1.1	-1.1									
	45	-1.0	-1.0	-1.0	-1.1	-1.2	-1.2								
	40	-1.0	-1.0	-1.1	-1.2	-1.3	-1.4	-1.5	-1.5						
	35	-1.1	-1.1	-1.2	-1.3	-1.3	-1.4	-1.5	-1.5						
	30	-1.1	-1.2	-1.2	-1.3	-1.4	-1.4	-1.5	-1.5	-1.5	-1.6				
	25	-1.1	-1.2	-1.3	-1.3	-1.4	-1.5	-1.5	-1.6	-1.7	-1.6	-1.6			
	20	-1.2	-1.2	-1.4	-1.4	-1.5	-1.5	-1.5	-1.6	-1.6	-1.6	-1.6	-1.6		
	15	-1.3	-1.3	-1.4	-1.4	-1.4	-1.5	-1.5	-1.6	-1.7	-1.7	-1.6	-1.7	-1.6	
LATITUDE	10	-1.2	-1.3	-1.4	-1.5	-1.5	-1.6	-1.6	-1.7	-1.7	-1.7	-1.7	-1.6	-1.5	
	5	-1.3	-1.4	-1.5	-1.5	-1.6	-1.6	-1.6	-1.7	-1.7	-1.6	-1.6	-1.6	-1.5	
	38° 0'	-1.4	-1.5	-1.5	-1.6	-1.6	-1.6	-1.6	-1.7	-1.7	-1.5	-1.5	-1.3		
	55	-1.5	-1.5	-1.6	-1.6	-1.6	-1.6	-1.6	-1.5	-1.5	-1.4	-1.3	-1.4	-1.5	
	50	-1.5	-1.5	-1.5	-1.6	-1.5	-1.5	-1.5	-1.4	-1.4	-1.4	-1.4	-1.5	-1.5	
	45	-1.5	-1.5	-1.5	-1.5	-1.4	-1.4	-1.5	-1.5	-1.5	-1.6	-1.5	-1.7	-1.7	
	40	-1.4	-1.4	-1.4	-1.4	-1.5	-1.5	-1.6	-1.7	-1.7	-1.7	-1.7	-1.8	-1.8	
	35	-1.3	-1.4	-1.4	-1.5	-1.6	-1.6	-1.7	-1.7	-1.8	-1.8	-1.8	-1.8	-1.7	
	30	-1.4	-1.5	-1.6	-1.6	-1.7	-1.8	-1.8	-1.8	-1.8	-1.7	-1.7	-1.8	-1.6	
	NORTH	25	-1.5	-1.6	-1.7	-1.7	-1.7	-1.8	-1.8	-1.7	-1.7	-1.8	-1.8	-1.6	-1.6
20		-1.7	-1.7	-1.7	-1.8	-1.8	-1.7	-1.7	-1.8	-1.7	-1.6	-1.7	-1.6	-1.7	
15		-1.7	-1.8	-1.7	-1.7	-1.7	-1.8	-1.7	-1.8	-1.6	-1.6	-1.7	-1.6	-1.6	
10		-1.7	-1.7	-1.7	-1.8	-1.7	-1.7	-1.6	-1.6	-1.6	-1.7	-1.6	-1.5	-1.5	
5		-1.7	-1.8	-1.7	-1.7	-1.6	-1.6	-1.6	-1.6	-1.5	-1.6	-1.5	-1.5	-1.5	
37° 0'		-1.7	-1.7	-1.6	-1.6	-1.6	-1.6	-1.6	-1.5	-1.5	-1.5	-1.4	-1.5	-1.4	
55		-1.6	-1.6	-1.6	-1.6	-1.6	-1.5	-1.5	-1.4	-1.5	-1.4	-1.4	-1.4	-1.4	
50		-1.6	-1.6	-1.7	-1.6	-1.5	-1.5	-1.4	-1.4	-1.5	-1.3	-1.3	-1.3	-1.3	
45		-1.6	-1.6	-1.5	-1.5	-1.4	-1.5	-1.4	-1.4	-1.4	-1.2	-1.3	-1.3	-1.3	
40		-1.5	-1.5	-1.5	-1.5	-1.4	-1.4	-1.3	-1.3	-1.3	-1.2	-1.2	-1.2	-1.1	
NORTH	35	-1.5	-1.5	-1.4	-1.4	-1.4	-1.3	-1.3	-1.3	-1.3	-1.1	-1.2	-1.2	-1.1	
	30	-1.5	-1.4	-1.4	-1.3	-1.3	-1.3	-1.2	-1.3	-1.2	-1.2	-1.2	-1.2	-1.0	
	25	-1.4	-1.4	-1.3	-1.3	-1.3	-1.2	-1.2	-1.2	-1.1	-1.1	-1.2	-1.1	-1.0	
	20	-1.4	-1.3	-1.3	-1.3	-1.2	-1.2	-1.2	-1.2	-1.1	-1.1	-1.2	-1.0	-1.1	
	15	-1.3	-1.3	-1.2	-1.2	-1.2	-1.2	-1.2	-1.1	-1.1	-1.1	-1.2	-1.1	-1.1	
	10	-1.3	-1.3	-1.2	-1.2	-1.1	-1.1	-1.2	-1.1	-1.1	-1.1	-1.2	-1.1	-1.1	
	5	-1.2	-1.2	-1.2	-1.2	-1.1	-1.1	-1.1	-1.1	-1.1	-1.2	-1.1	-1.1	-1.1	
	36° 0'	-1.2	-1.2	-1.2	-1.1	-1.1	-1.2	-1.1	-1.1	-1.2	-1.2	-1.1	-1.1	-1.2	
			124° 0'	55	50	45	40	35	30	25	20	15	10	5	123° 0'
			LONGITUDE WEST												

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		LONGITUDE WEST												
		123° 0'	55	50	45	40	35	30	25	20	15	10	5	122° 0'
LATITUDE	39° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													
	15	-1.6												
	10	-1.5												
	5	-1.5												
	38° 0'		-1.3	-1.3										
	55	-1.6	-1.5	-1.5	-1.7									
	50	-1.5	-1.7	-1.7	-1.8	-1.8	-1.6							
45	-1.7	-1.7	-1.8	-1.8	-1.7	-1.8								
40	-1.8	-1.7	-1.8	-1.9	-1.6	-1.4	-1.4							
35	-1.7	-1.8	-1.7	-1.5	-1.4	-1.6								
30	-1.6	-1.6	-1.6	-1.6	-1.5	-1.5	-1.6							
NORTH	25	-1.6	-1.7	-1.7	-1.5	-1.4	-1.3	-1.6	-1.6					
	20	-1.7	-1.6	-1.5	-1.4	-1.3	-1.3	-1.5	-1.4					
	15	-1.6	-1.6	-1.4	-1.4	-1.3	-1.2	-1.4	-1.3					
	10	-1.5	-1.6	-1.4	-1.4	-1.2	-1.2	-1.2	-1.2					
	5	-1.5	-1.5	-1.3	-1.3	-1.1	-1.2	-1.2	-1.2	-1.0				
	37° 0'	-1.4	-1.3	-1.2	-1.2	-1.0	-1.1	-1.2	-1.1	-0.9	-1.0			
	55	-1.4	-1.3	-1.2	-1.1	-1.1	-1.1	-1.1	-1.1	-0.9	-1.1	-1.1	-1.2	-1.3
	50	-1.3	-1.2	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.0	-1.1	-1.1	-1.2	-1.3
	45	-1.3	-1.1	-1.1	-1.0	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.2	-1.3	-1.3
	40	-1.1	-1.1	-1.1	-1.0	-1.1	-1.2	-1.2	-1.1	-1.1	-1.2	-1.2	-1.2	-1.2
	35	-1.1	-1.0	-1.0	-1.0	-1.1	-1.2	-1.2	-1.1	-1.2	-1.1	-1.2	-1.2	-1.2
	30	-1.0	-1.0	-1.0	-1.1	-1.2	-1.3	-1.2	-1.1	-1.2	-1.1	-1.2	-1.3	-1.2
	25	-1.0	-1.0	-1.0	-1.2	-1.2	-1.3	-1.2	-1.1	-1.2	-1.1	-1.2	-1.2	-1.0
	20	-1.1	-1.1	-1.0	-1.2	-1.2	-1.3	-1.2	-1.1	-1.2	-1.2	-1.1	-1.1	-1.0
	15	-1.1	-1.1	-1.1	-1.2	-1.3	-1.3	-1.2	-1.2	-1.2	-1.2	-1.1	-1.0	-1.0
10	-1.1	-1.1	-1.2	-1.3	-1.3	-1.2	-1.1	-1.2	-1.2	-1.1	-1.0	-0.9	-0.8	
5	-1.1	-1.1	-1.2	-1.2	-1.3	-1.2	-1.1	-1.2	-1.1	-1.0	-1.0	-0.9	-1.0	
36° 0'	-1.2	-1.1	-1.2	-1.2	-1.2	-1.2	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.0	
		123° 0'	55	50	45	40	35	30	25	20	15	10	5	122° 0'
		LONGITUDE WEST												

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		LONGITUDE WEST												
		122° 0'	55	50	45	40	35	30	25	20	15	10	5	121° 0'
LATITUDE NORTH	39° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													
	15													
	10													
	5													
	38° 0'													
	55													
	50													
	45													
	40													
	35													
	30													
	25													
	20													
	15													
	10													
	5													
37° 0'														
55	-1.3	-1.3												
50	-1.3	-1.3	-1.3											
45	-1.3	-1.3	-1.4											
40	-1.2	-1.3	-1.4											
35	-1.2													
30	-1.2													
25	-1.0	-1.1												
20	-1.0	-1.2												
15	-1.0	-1.1	-1.4											
10	-0.9	-1.2	-1.3	-1.4	-1.5									
5	-1.0	-1.2	-1.4	-1.4	-1.5									
36° 0'	-1.0	-1.2	-1.4	-1.3	-1.6	-1.5	-1.6							
		122° 0'	55	50	45	40	35	30	25	20	15	10	5	121° 0'
		LONGITUDE WEST												

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		LONGITUDE WEST													
		123° 0'	55	50	45	40	35	30	25	20	15	10	5	122° 0'	
LATITUDE	36° 0'	-1.2	-1.1	-1.2	-1.2	-1.2	-1.2	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.0	
	55	-1.2	-1.1	-1.2	-1.2	-1.3	-1.2	-1.1	-1.1	-1.0	-0.9	-1.0	-1.0	-1.0	
	50	-1.1	-1.2	-1.2	-1.3	-1.2	-1.0	-1.1	-0.9	-0.9	-1.0	-1.0	-1.0	-1.1	
	45	-1.1	-1.2	-1.3	-1.3	-1.1	-1.0	-0.9	-0.9	-0.9	-0.9	-0.9	-1.0	-1.1	
	40	-1.1	-1.2	-1.3	-1.2	-1.1	-0.9	-0.9	-0.9	-0.9	-1.0	-0.9	-1.0	-1.2	
	35	-1.1	-1.2	-1.2	-1.2	-1.0	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-1.0	-1.3	
	30	-1.2	-1.2	-1.2	-1.0	-0.9	-0.9	-0.9	-0.9	-0.8	-1.0	-0.9	-1.0	-1.3	
	25	-1.2	-1.1	-1.1	-1.0	-0.8	-0.9	-0.9	-0.9	-0.9	-1.0	-1.0	-1.0	-1.2	
	20	-1.1	-1.0	-1.0	-0.9	-0.8	-0.9	-0.8	-0.9	-0.9	-0.9	-1.0	-1.1	-1.2	
	15	-1.0	-1.0	-1.0	-1.0	-0.8	-0.9	-0.8	-0.9	-0.9	-1.0	-1.0	-1.1	-1.3	
LATITUDE	10	-1.0	-1.0	-1.0	-0.9	-0.8	-0.9	-0.8	-0.9	-1.0	-1.0	-1.0	-1.2	-1.3	
	5	-1.0	-1.0	-1.0	-0.9	-0.8	-0.9	-0.9	-0.9	-1.0	-0.9	-0.9	-1.2	-1.3	
	35° 0'	-1.0	-1.0	-0.9	-0.8	-0.9	-0.8	-0.9	-0.9	-0.9	-0.9	-1.1	-1.3	-1.5	
	55	-1.0	-1.0	-0.9	-0.8	-0.9	-0.8	-0.9	-0.9	-0.9	-1.0	-1.1	-1.4	-1.5	
	50	-1.0	-1.0	-0.9	-0.8	-0.9	-0.9	-0.9	-0.9	-0.9	-1.0	-1.1	-1.5	-1.5	
	45	-1.0	-1.0	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-1.0	-1.0	-1.3	-1.5	-1.6	
	40	-1.0	-0.9	-0.8	-0.9	-0.9	-0.9	-0.8	-1.0	-1.0	-1.0	-1.3	-1.5	-1.6	
	35	-1.0	-0.9	-0.8	-0.9	-0.9	-0.9	-0.8	-1.0	-1.0	-1.2	-1.4	-1.5	-1.5	
	30	-1.0	-0.9	-0.8	-0.9	-0.8	-0.8	-1.0	-1.0	-1.2	-1.2	-1.5	-1.5	-1.4	
	25	-1.0	-0.9	-0.8	-0.9	-0.8	-0.9	-1.0	-1.0	-1.2	-1.3	-1.5	-1.5	-1.4	
NORTH	20	-1.0	-0.9	-0.8	-0.8	-0.8	-0.9	-1.0	-1.1	-1.2	-1.3	-1.5	-1.4	-1.4	
	15	-1.0	-0.8	-0.8	-0.8	-0.9	-0.9	-1.2	-1.1	-1.2	-1.3	-1.5	-1.4	-1.6	
	10	-1.0	-0.8	-0.8	-0.9	-0.9	-0.9	-1.2	-1.2	-1.3	-1.3	-1.3	-1.5	-1.5	
	5	-0.9	-0.8	-0.9	-0.9	-0.9	-1.1	-1.2	-1.2	-1.2	-1.2	-1.3	-1.5	-1.5	
	34° 0'	-0.9	-0.8	-0.9	-0.9	-1.1	-1.1	-1.2	-1.2	-1.3	-1.3	-1.5	-1.5	-1.6	
	55	-0.9	-0.9	-0.9	-0.9	-1.1	-1.1	-1.2	-1.2	-1.1	-1.3	-1.5	-1.5	-1.6	
	50	-0.8	-0.9	-0.9	-1.1	-1.1	-1.2	-1.2	-1.2	-1.1	-1.4	-1.5	-1.5	-1.6	
	45	-0.9	-0.9	-1.1	-1.1	-1.1	-1.2	-1.2	-1.1	-1.2	-1.4	-1.5	-1.5	-1.6	
	40	-0.9	-0.9	-1.1	-1.1	-1.1	-1.2	-1.2	-1.1	-1.3	-1.4	-1.5	-1.5	-1.6	
	35	-0.9	-1.1	-1.1	-1.1	-1.2	-1.2	-1.1	-1.1	-1.3	-1.5	-1.5	-1.6	-1.6	
NORTH	30	-0.9	-1.1	-1.0	-1.1	-1.2	-1.0	-1.1	-1.2	-1.4	-1.5	-1.5	-1.6	-1.6	
	25	-1.0	-1.1	-1.1	-1.1	-1.2	-1.0	-1.2	-1.3	-1.5	-1.5	-1.5	-1.6	-1.6	
	20	-1.1	-1.1	-1.1	-1.1	-1.1	-1.0	-1.2	-1.3	-1.5	-1.5	-1.5	-1.6	-1.6	
	15	-1.1	-1.1	-1.1	-1.1	-1.1	-1.2	-1.2	-1.3	-1.5	-1.5	-1.5	-1.6	-1.6	
	10	-1.1	-1.1	-1.1	-0.9	-1.0	-1.2	-1.2	-1.4	-1.5	-1.5	-1.6	-1.6	-1.6	
	5	-1.1	-1.0	-1.1	-1.0	-1.2	-1.2	-1.2	-1.4	-1.5	-1.5	-1.6	-1.6	-1.6	
	33° 0'	-1.1	-1.0	-0.9	-1.0	-1.1	-1.2	-1.3	-1.4	-1.5	-1.5	-1.5	-1.6	-1.6	
			123° 0'	55	50	45	40	35	30	25	20	15	10	5	122° 0'
			LONGITUDE WEST												

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		LONGITUDE WEST												
		122° 0'	55	50	45	40	35	30	25	20	15	10	5	121° 0'
LATITUDE NORTH	36° 0'	-1.0	-1.2	-1.4	-1.3	-1.6	-1.5	-1.6						
	55	-1.0	-1.3	-1.4	-1.5	-1.5	-1.6	-1.8						
	50	-1.1	-1.3	-1.4	-1.4	-1.4	-1.6	-1.8	-2.0					
	45	-1.1	-1.3	-1.4	-1.4	-1.5	-1.6	-1.9	-1.9	-2.0				
	40	-1.2	-1.4	-1.3	-1.4	-1.6	-1.7	-1.9	-2.0	-1.9				
	35	-1.3	-1.3	-1.3	-1.5	-1.5	-1.7	-1.9	-1.9	-1.7	-1.9	-2.0		
	30	-1.3	-1.3	-1.4	-1.5	-1.7	-1.8	-1.9	-1.8	-1.6	-1.9	-2.0	-2.2	
	25	-1.2	-1.3	-1.4	-1.7	-1.7	-1.8	-1.8	-1.7	-1.8	-1.9	-1.9	-2.1	-2.1
	20	-1.2	-1.4	-1.4	-1.7	-1.8	-1.8	-1.7	-1.8	-1.9	-1.9	-1.9	-2.1	-2.1
	15	-1.3	-1.4	-1.6	-1.7	-1.8	-1.9	-1.7	-1.9	-1.9	-1.9	-1.9	-2.0	-2.1
	10	-1.3	-1.5	-1.6	-1.7	-1.7	-1.7	-1.9	-1.8	-1.9	-1.9	-1.9	-2.0	-2.2
	5	-1.3	-1.5	-1.6	-1.7	-1.6	-1.7	-1.8	-1.9	-1.9	-1.9	-1.8	-2.0	-2.1
	35° 0'	-1.5	-1.5	-1.7	-1.7	-1.6	-1.8	-1.8	-1.8	-1.9	-1.9	-1.9	-2.0	-2.1
	55	-1.5	-1.5	-1.7	-1.5	-1.6	-1.8	-1.9	-1.8	-1.9	-1.8	-1.9	-2.0	-2.1
	50	-1.5	-1.6	-1.7	-1.5	-1.6	-1.8	-1.8	-1.8	-1.8	-1.8	-1.9	-2.0	-2.0
	45	-1.6	-1.6	-1.5	-1.6	-1.7	-1.8	-1.8	-1.8	-1.8	-1.8	-1.9	-2.0	-2.0
	40	-1.6	-1.5	-1.5	-1.6	-1.7	-1.8	-1.8	-1.8	-1.8	-1.9	-2.0	-1.9	-2.0
	35	-1.5	-1.4	-1.6	-1.6	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-2.0	-1.9	-2.0
30	-1.4	-1.5	-1.6	-1.7	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.9	-1.9	-2.0	
LATITUDE SOUTH	25	-1.4	-1.6	-1.6	-1.7	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.9	-1.9	-2.0
	20	-1.4	-1.6	-1.6	-1.7	-1.8	-1.8	-1.7	-1.8	-1.8	-1.8	-1.9	-2.0	-2.0
	15	-1.6	-1.6	-1.6	-1.7	-1.8	-1.8	-1.8	-1.8	-1.8	-1.7	-1.9	-2.0	-2.0
	10	-1.5	-1.6	-1.6	-1.7	-1.7	-1.8	-1.8	-1.8	-1.8	-1.7	-1.8	-2.0	-2.0
	5	-1.5	-1.6	-1.6	-1.7	-1.7	-1.8	-1.8	-1.8	-1.7	-1.7	-1.9	-2.0	-2.0
	34° 0'	-1.6	-1.6	-1.6	-1.7	-1.7	-1.8	-1.7	-1.8	-1.7	-1.7	-1.9	-2.0	-2.0
	55	-1.6	-1.6	-1.6	-1.7	-1.8	-1.8	-1.8	-1.7	-1.7	-1.7	-1.9	-2.0	-1.9
	50	-1.6	-1.6	-1.6	-1.8	-1.8	-1.8	-1.8	-1.7	-1.7	-1.9	-1.9	-2.0	-1.9
	45	-1.6	-1.6	-1.6	-1.8	-1.8	-1.8	-1.8	-1.7	-1.7	-1.9	-1.9	-2.0	-1.9
	40	-1.6	-1.6	-1.6	-1.8	-1.8	-1.8	-1.7	-1.7	-1.7	-1.9	-1.9	-1.9	-1.9
	35	-1.6	-1.6	-1.6	-1.7	-1.8	-1.7	-1.7	-1.7	-1.7	-1.9	-1.9	-1.9	-1.9
	30	-1.6	-1.6	-1.6	-1.7	-1.8	-1.7	-1.7	-1.7	-1.7	-1.9	-1.9	-1.9	-1.9
	25	-1.6	-1.6	-1.6	-1.7	-1.8	-1.7	-1.7	-1.7	-1.7	-1.9	-1.9	-1.9	-1.9
	20	-1.6	-1.6	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7	-1.9	-1.9	-1.8	-1.8
	15	-1.6	-1.6	-1.8	-1.8	-1.7	-1.6	-1.7	-1.7	-1.7	-1.8	-1.8	-1.8	-1.8
	10	-1.6	-1.6	-1.8	-1.8	-1.7	-1.7	-1.7	-1.7	-1.7	-1.8	-1.8	-1.8	-1.8
	5	-1.6	-1.6	-1.8	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7	-1.8	-1.8	-1.8	-1.8
	33° 0'	-1.6	-1.7	-1.8	-1.7	-1.7	-1.7	-1.7	-1.8	-1.7	-1.8	-1.8	-1.8	-1.8
		122° 0'	55	50	45	40	35	30	25	20	15	10	5	121° 0'
		LONGITUDE WEST												

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15W

		LONGITUDE WEST													
		121° 0'	55	50	45	40	35	30	25	20	15	10	5	120° 0'	
LATITUDE	36° 0'														
	55														
	50														
	45														
	40														
	35														
	30														
	25	-2.1	-2.3												
	20	-2.1	-2.2												
	15	-2.1	-2.2												
LATITUDE	10	-2.2	-2.1	-2.2											
	5	-2.1	-2.1	-2.2	-2.3	-2.3									
	35° 0'	-2.1	-2.1	-2.2	-2.3	-2.3									
	55	-2.1	-2.1	-2.2	-2.3	-2.2									
	50	-2.0	-2.1	-2.2	-2.2	-2.1									
	45	-2.0	-2.1	-2.2	-2.2	-2.1									
	40	-2.0	-2.1	-2.2	-2.2	-2.1	-2.1								
	35	-2.0	-2.1	-2.2	-2.1	-2.0									
	30	-2.0	-2.1	-2.1	-2.1	-2.0	-2.0	-2.0							
	NORTH	25	-2.0	-2.1	-2.1	-2.1	-2.0	-2.0	-2.0	-2.1	-2.1	-2.1	-2.1	-2.0	-2.1
20		-2.0	-2.1	-2.1	-2.0	-1.9	-1.9	-2.0	-2.1	-2.1	-2.1	-2.1	-2.0	-2.1	
15		-2.0	-2.1	-2.1	-2.0	-1.9	-1.9	-1.9	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	
10		-2.0	-2.0	-2.0	-1.9	-1.9	-1.9	-1.9	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	
5		-2.0	-2.0	-2.0	-1.9	-1.9	-1.9	-1.9	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	
34° 0'		-2.0	-2.0	-2.0	-1.8	-1.9	-1.9	-2.0	-2.1	-2.1	-2.1			-2.1	
55		-1.9	-1.9	-1.9	-1.8	-1.8	-1.9	-2.0	-2.1	-2.1	-2.1	-2.0		-2.0	
50		-1.9	-1.9	-1.9	-1.8	-1.8	-1.9	-2.0	-2.0	-2.1	-2.0	-2.0	-2.0	-2.1	
45		-1.9	-1.9	-1.8	-1.8	-1.8	-1.9	-2.0	-2.1	-2.1	-2.0	-2.0	-2.1	-2.1	
40		-1.9	-1.9	-1.8	-1.8	-1.8	-1.9	-2.0	-2.1	-2.1	-2.0	-2.0	-2.1	-2.1	
NORTH	35	-1.9	-1.8	-1.8	-1.8	-1.8	-1.9	-2.0	-2.1	-2.1	-2.0	-2.0	-2.1	-2.1	
	30	-1.9	-1.8	-1.8	-1.8	-1.8	-1.9	-2.0	-2.1	-2.1	-1.9	-2.0	-2.0	-2.0	
	25	-1.9	-1.8	-1.8	-1.8	-1.8	-1.9	-2.0	-2.1	-2.1	-2.0	-2.0	-2.0	-2.0	
	20	-1.8	-1.8	-1.8	-1.8	-1.9	-1.9	-2.0	-2.1	-2.0	-2.0	-2.0	-2.0	-2.0	
	15	-1.8	-1.8	-1.8	-1.8	-1.9	-1.9	-2.1	-2.1	-2.0	-2.0	-2.0	-2.0	-2.0	
	10	-1.8	-1.8	-1.8	-1.8	-1.9	-1.9	-2.1	-2.1	-2.0	-1.9	-2.0	-2.0	-2.0	
	5	-1.8	-1.8	-1.8	-1.8	-1.9	-1.9	-2.1	-2.1	-2.0	-2.0	-2.0	-2.0	-2.0	
	33° 0'	-1.8	-1.8	-1.8	-1.8	-1.9	-1.9	-2.1	-2.1	-2.0	-2.0	-2.0	-2.0	-2.0	
			121° 0'	55	50	45	40	35	30	25	20	15	10	5	120° 0'
			LONGITUDE WEST												





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		LONGITUDE WEST												
		119° 0'	55	50	45	40	35	30	25	20	15	10	5	118° 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'	-2.1	-1.9	-1.9	-2.0	-1.8	-2.0	-2.0							
55	-2.1	-1.9	-1.9	-2.0	-1.8	-1.9	-2.0	-2.3						
50	-2.0	-1.9	-1.8	-2.0	-1.8	-1.9	-2.0	-2.2						
45	-2.0	-1.9	-1.8	-2.0	-1.8	-1.9	-2.0	-2.2						
40	-2.0	-1.9	-1.8	-1.9	-1.8	-1.8	-1.9	-2.2	-2.2	-2.1	-2.1	-2.2		
35	-2.1	-1.9	-1.9	-1.9	-1.8	-1.8	-1.9	-2.1	-2.2	-2.1	-2.1	-2.2	-2.1	
30	-2.0	-1.9	-1.8	-1.9	-1.8	-1.8	-1.9	-2.1	-2.1	-2.0	-2.0	-2.1	-2.1	
25	-2.0	-1.9	-1.8	-1.9	-1.8	-1.8	-1.9		-2.1	-2.0	-2.0	-2.1	-2.0	
20	-2.0	-1.9	-1.8	-1.9	-1.8	-1.8	-1.9			-2.0	-2.0	-2.1	-1.9	
15	-2.0	-1.9	-1.8	-1.9	-1.8	-1.8	-1.9	-2.0	-2.1	-2.0	-2.0	-2.1	-2.0	
10	-2.0	-1.9	-1.8	-1.9	-1.9	-1.7	-1.9	-2.0	-2.1	-2.0	-2.0	-2.0	-2.0	
5	-2.0	-1.8	-1.8	-1.9	-1.8	-1.7	-1.9	-1.9	-2.0	-2.0	-2.0	-2.0	-2.0	
33° 0'	-2.0	-1.8	-1.8	-1.9	-1.9		-1.9	-1.9	-2.1	-2.0	-2.0	-2.0	-2.0	
		119° 0'	55	50	45	40	35	30	25	20	15	10	5	118° 0'
		LONGITUDE WEST												



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		LONGITUDE WEST												
		121° 0'	55	50	45	40	35	30	25	20	15	10	5	120° 0'
LATITUDE	33° 0'	-1.8	-1.8	-1.8	-1.8	-1.9	-1.9	-2.1	-2.1	-2.0	-2.0	-2.0	-2.0	-2.0
	55	-1.8	-1.8	-1.8	-1.9	-1.9	-2.0	-2.1	-2.1	-2.0	-2.0	-2.0	-2.0	-2.0
	50	-1.8	-1.8	-1.8	-1.9	-1.9	-2.0	-2.1	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
	45	-1.8	-1.8	-1.8	-1.9	-1.9	-2.0	-2.1	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
	40	-1.8	-1.8	-1.8	-1.9	-1.9	-2.0	-2.1	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
	35	-1.8	-1.8	-1.9	-1.9	-1.9	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
	30	-1.8	-1.8	-1.9	-1.9	-1.9	-2.0	-2.1	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
	25	-1.8	-1.8	-1.8	-1.8	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
	20	-1.7	-1.9	-1.9	-1.8	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
	15	-1.8	-1.9	-1.9	-1.9	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
NORTH	10	-1.8	-1.9	-1.9	-1.9	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
	5	-1.8	-1.9	-1.9	-1.9	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.1
	32° 0'	-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
	55	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-2.0	-2.0	-2.0	-1.9	-2.0	-2.0	-2.0
	50	-1.9	-1.9	-1.9	-1.9	-2.0	-2.0	-2.0	-2.0	-2.0	-1.9	-1.9	-2.0	-2.0
	45	-1.8	-1.9	-1.9	-1.9	-1.9	-2.0	-2.0	-2.0	-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	-2.1
	35	-1.9	-1.9	-1.9	-1.9	-1.9	-2.0	-2.0	-2.0	-1.9	-2.0	-2.0	-2.0	-2.1
	30	-1.8	-1.9	-1.9	-1.9	-1.9	-2.0	-2.0	-2.0	-1.9	-2.0	-2.0	-2.0	-2.1
	25	-1.9	-1.9	-1.9	-1.9	-1.9	-2.0	-2.0	-2.0	-1.9	-2.0	-2.0	-2.0	-2.1
H	20	-1.9	-1.9	-1.9	-1.9	-1.9	-2.0	-2.0	-2.0	-1.9	-2.0	-2.0	-2.0	-2.1
	15	-1.9	-1.9	-1.9	-1.9	-1.9	-2.0	-2.0	-2.0	-1.9	-2.0	-2.0	-2.0	-2.1
	10	-1.9	-1.9	-1.9	-1.9	-1.9	-2.0	-2.0	-2.0	-1.9	-2.0	-2.0	-2.1	-2.1
	5	-1.9	-1.9	-1.9	-1.9	-1.9	-2.0	-2.0	-2.0	-1.9	-2.0	-2.0	-2.1	-2.1
	31° 0'	-1.9	-1.9	-1.9	-1.9	-1.9	-2.0	-2.0	-2.0	-1.9	-2.0	-2.0	-2.1	-2.1
	55	-1.9	-1.9	-1.9	-1.9	-1.9	-2.0	-2.0	-2.0	-1.9	-2.0	-2.0	-2.1	-2.1
	50	-1.9	-1.9	-1.8	-1.9	-1.9	-2.0	-2.0	-2.0	-1.9	-2.0	-2.0	-2.1	-2.1
	45	-1.9	-1.9	-1.8	-1.9	-1.9	-2.0	-2.0	-2.0	-1.9	-2.0	-2.0	-2.1	-2.1
	40	-1.9	-1.9	-1.8	-1.9	-1.9	-2.0	-2.0	-2.0	-1.9	-2.0	-2.0	-2.1	-2.1
	35	-1.9	-1.9	-1.8	-1.9	-1.9	-2.0	-2.0	-2.0	-1.9	-2.0	-2.0	-2.1	-2.1
30	-1.9	-1.9	-1.8	-1.9	-1.9	-2.0	-2.0	-1.9	-1.9	-2.0	-2.0	-2.1	-2.1	
25	-1.9	-1.8	-1.8	-1.9	-2.0	-2.0	-2.0	-1.9	-1.9	-2.0	-2.0	-2.1	-2.1	
20	-1.9	-1.8	-1.8	-1.9	-1.9	-2.0	-2.0	-1.9	-1.9	-2.0	-2.0	-2.1	-2.1	
15	-1.9	-1.8	-1.9	-1.9	-1.9	-2.0	-2.0	-1.9	-1.9	-2.0	-2.0	-2.1	-2.1	
10	-1.9	-1.8	-1.9	-1.9	-1.9	-2.0	-2.0	-1.9	-1.9	-2.0	-2.0	-2.1	-2.1	
5	-1.8	-1.9	-1.9	-1.9	-1.9	-2.0	-2.0	-1.9	-1.9	-2.0	-2.0	-2.1	-2.1	
30° 0'	-1.8	-1.9	-1.8	-1.9	-1.9	-2.0	-2.0	-1.9	-1.9	-2.0	-2.1	-2.1	-2.1	
		121° 0'	55	50	45	40	35	30	25	20	15	10	5	120° 0'
		LONGITUDE WEST												

20W

9940-W

20W

0040 W

		LONGITUDE WEST												
		120° 0'	55	50	45	40	35	30	25	20	15	10	5	119° 0'
LATITUDE	33° 0'	-2.0	-2.1	-2.1	-2.2	-2.2	-2.1	-2.0	-1.9	-1.9	-1.8	-2.0	-2.0	-2.0
	55	-2.0	-2.1	-2.1	-2.2	-2.2	-2.1	-2.0	-1.9	-1.9	-1.8	-1.9	-1.9	-2.0
	50	-2.0	-2.1	-2.1	-2.2	-2.2	-2.1	-1.9	-1.9	-1.9	-1.8	-1.9	-1.9	-2.0
	45	-2.0	-2.1	-2.1	-2.2	-2.2	-2.1	-1.9	-1.9	-1.9	-1.8	-1.9	-1.8	-2.0
	40	-2.0	-2.1	-2.1	-2.2	-2.2	-2.1	-1.9	-1.9	-1.9	-1.8	-1.9	-1.9	-1.9
	35	-2.0	-2.1	-2.1	-2.2	-2.2	-2.1	-1.9	-1.9	-1.9	-1.8	-1.9	-1.8	-1.9
	30	-2.0	-2.1	-2.2	-2.2	-2.2	-2.1	-1.9	-1.9	-1.9	-1.8	-1.9	-1.8	-1.9
	25	-2.0	-2.1	-2.1	-2.2	-2.2	-2.1	-1.9	-1.9	-1.8	-1.8	-1.8	-1.8	-1.9
	20	-2.0	-2.1	-2.2	-2.2	-2.2	-2.1	-1.9	-1.9	-1.8	-1.8	-1.8	-1.8	-1.9
	15	-2.0	-2.1	-2.1	-2.2	-2.2	-2.1	-1.9	-1.9	-1.8	-1.8	-1.8	-1.8	-1.9
	10	-2.0	-2.1	-2.1	-2.2	-2.2	-2.0	-1.9	-1.9	-1.8	-1.8	-1.8	-1.8	-1.9
	5	-2.1	-2.1	-2.1	-2.2	-2.1	-2.0	-1.9	-1.9	-1.8	-1.8	-1.7	-1.8	-1.9
	32° 0'	-2.0	-2.1	-2.1	-2.2	-2.1	-2.0	-1.9	-1.9	-1.8	-1.8	-1.7	-1.8	-1.9
	55	-2.0	-2.1	-2.1	-2.2	-2.1	-2.0	-1.9	-1.9	-1.8	-1.8	-1.7	-1.8	-1.9
	50	-2.0	-2.1	-2.1	-2.2	-2.1	-2.0	-1.9	-1.9	-1.8	-1.8	-1.7	-1.8	-1.9
	45	-2.0	-2.1	-2.1	-2.2	-2.1	-2.0	-1.9	-1.9	-1.8	-1.8	-1.7	-1.8	-1.9
40	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.9	-1.8	-1.7	-1.7	-1.8	-1.9	
35	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.9	-1.8	-1.7	-1.7	-1.8	-1.9	
30	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.9	-1.8	-1.7	-1.7	-1.8	-1.9	
NORTH	25	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.9	-1.8	-1.7	-1.7	-1.8	-1.9
	20	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.9	-1.9	-1.7	-1.7	-1.9	-1.9
	15	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.9	-1.8	-1.7	-1.7	-1.9	-1.9
	10	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.9	-1.8	-1.7	-1.7	-1.8	-1.9
	5	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.9	-1.8	-1.7	-1.7	-1.8	-1.9
	31° 0'	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.9	-1.8	-1.7	-1.7	-1.8	-1.9
	55	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.8	-1.8	-1.7	-1.7	-1.8	-1.9
	50	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.8	-1.8	-1.7	-1.7	-1.8	-1.9
	45	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.8	-1.8	-1.7	-1.7	-1.8	-1.8
	40	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.8	-1.8	-1.7	-1.7	-1.8	-1.8
	35	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.8	-1.8	-1.6	-1.7	-1.8	-1.8
	30	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.0	-1.8	-1.8	-1.6	-1.7	-1.8	-1.8
	25	-2.1	-2.2	-2.1	-2.1	-2.1	-2.1	-2.0	-1.8	-1.8	-1.6	-1.7	-1.8	-1.8
	20	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.8	-1.8	-1.6	-1.7	-1.8	-1.8
	15	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.8	-1.8	-1.6	-1.7	-1.8	-1.8
	10	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.8	-1.8	-1.6	-1.7	-1.8	-1.8
5	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.8	-1.8	-1.6	-1.7	-1.8	-1.8	
30° 0'	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-1.9	-1.8	-1.8	-1.6	-1.7	-1.8	-1.8	
		120° 0'	55	50	45	40	35	30	25	20	15	10	5	119° 0'
		LONGITUDE WEST												

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		LONGITUDE WEST												
		119° 0'	55	50	45	40	35	30	25	20	15	10	5	118° 0'
LATITUDE	33° 0'	-2.0	-1.8	-1.8	-1.9	-1.9		-1.9	-1.9	-2.1	-2.0	-2.0	-2.0	-2.0
	55	-2.0	-1.8	-1.8	-1.8	-1.9	-1.7		-1.9	-2.0	-2.1	-1.9	-2.0	-2.0
	50	-2.0	-1.8	-1.8	-1.8	-1.8	-1.7	-1.9		-2.0	-2.1	-1.9	-2.0	-2.0
	45	-2.0	-1.8	-1.8	-1.8	-1.8	-1.7	-1.9	-1.8	-2.0	-2.0	-1.9	-2.0	-2.0
	40	-1.9	-1.8	-1.8	-1.7	-1.9	-1.7	-1.9	-1.8	-2.0	-2.0	-1.9	-2.0	-2.0
	35	-1.9	-1.8	-1.8	-1.7	-1.9	-1.8	-1.9	-1.8	-2.0	-2.1	-1.9	-1.9	-2.0
	30	-1.9	-1.8	-1.8	-1.7	-1.9	-1.8	-1.9	-1.8	-2.0	-2.0	-1.9	-1.9	-2.0
	25	-1.9	-1.8	-1.8	-1.7	-1.8	-1.8	-1.9	-1.8	-2.0	-2.0	-1.9	-1.9	-2.0
	20	-1.9	-1.8	-1.8	-1.7	-1.8	-1.8	-1.9	-1.8	-2.0	-2.0	-1.9	-1.9	-2.0
	15	-1.9	-1.9	-1.7	-1.7	-1.8	-1.8	-1.9	-1.8	-2.0	-2.0	-1.9	-1.9	-1.9
	10	-1.9	-1.9	-1.7	-1.7	-1.8	-1.8	-1.8	-1.8	-2.0	-2.0	-1.9	-1.9	-1.9
	5	-1.9	-1.9	-1.7	-1.7	-1.8	-1.8	-1.8	-1.8	-2.0	-1.9	-1.9	-1.9	-1.9
	32° 0'	-1.9	-1.9	-1.8	-1.7	-1.8	-1.8	-1.8	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9
	55	-1.9	-1.9	-1.7	-1.7	-1.8	-1.8	-1.8	-1.9	-1.9	-1.9	-2.0	-1.9	-1.9
	50	-1.9	-1.9	-1.7	-1.7	-1.8	-1.8	-1.8	-1.9	-1.9	-2.0	-2.0	-1.9	-1.9
45	-1.9	-1.9	-1.7	-1.7	-1.8	-1.8	-1.8	-1.9	-1.9	-1.9	-2.0	-1.9	-1.9	
40	-1.9	-1.9	-1.7	-1.7	-1.8	-1.8	-1.8	-1.9	-1.8	-1.9	-2.0	-1.9	-1.9	
35	-1.9	-1.9	-1.7	-1.7	-1.8	-1.8	-1.8	-1.9	-1.8	-1.9	-2.0	-1.9	-1.9	
30	-1.9	-1.9	-1.7	-1.7	-1.8	-1.8	-1.7	-1.9	-1.8	-2.0	-2.0	-1.9	-1.9	
NORTH	25	-1.9	-1.9	-1.7	-1.7	-1.8	-1.8	-1.7	-1.9	-1.8	-2.0	-2.0	-1.9	-1.9
	20	-1.9	-1.9	-1.7	-1.7	-1.8	-1.8	-1.7	-1.9	-1.8	-1.9	-2.0	-1.9	-1.9
	15	-1.9	-1.9	-1.7	-1.7	-1.8	-1.8	-1.7	-1.8	-1.8	-2.0	-2.0	-1.9	-1.9
	10	-1.9	-1.9	-1.7	-1.7	-1.7	-1.8	-1.7	-1.8	-1.8	-2.0	-2.0	-1.9	-1.9
	5	-1.9	-1.9	-1.7	-1.7	-1.7	-1.8	-1.7	-1.8	-1.8	-2.0	-1.9	-1.9	-1.9
	31° 0'	-1.9	-1.9	-1.7	-1.7	-1.7	-1.8	-1.7	-1.8	-1.8	-2.0	-1.9	-1.9	-1.9
	55	-1.9	-1.9	-1.7	-1.7	-1.7	-1.8	-1.7	-1.8	-1.8	-2.0	-1.9	-1.9	-1.9
	50	-1.9	-1.9	-1.7	-1.7	-1.7	-1.8	-1.7	-1.8	-1.8	-2.0	-2.0	-2.0	-1.9
	45	-1.8	-1.9	-1.7	-1.7	-1.7	-1.8	-1.7	-1.8	-1.8	-2.0	-1.9	-2.0	-1.9
	40	-1.8	-1.9	-1.7	-1.7	-1.7	-1.8	-1.7	-1.8	-1.8	-2.0	-1.9	-2.0	-1.9
	35	-1.8	-1.9	-1.7	-1.6	-1.7	-1.8	-1.7	-1.8	-1.8	-1.9	-2.0	-2.0	-1.9
	30	-1.8	-1.8	-1.7	-1.7	-1.7	-1.8	-1.7	-1.8	-1.8	-1.9	-1.9	-2.0	-1.9
	25	-1.8	-1.8	-1.8	-1.6	-1.7	-1.8	-1.7	-1.8	-1.8	-1.9	-2.0	-2.0	-1.9
	20	-1.8	-1.8	-1.8	-1.7	-1.7	-1.8	-1.7	-1.8	-1.8	-1.9	-1.9	-2.0	-1.9
	15	-1.8	-1.8	-1.8	-1.7	-1.7	-1.8	-1.7	-1.8	-1.8	-1.9	-1.9	-2.0	-1.9
10	-1.8	-1.8	-1.8	-1.7	-1.7	-1.8	-1.7	-1.8	-1.8	-1.8	-2.0	-2.0	-1.9	
5	-1.8	-1.8	-1.8	-1.7	-1.7	-1.8	-1.7	-1.8	-1.8	-1.8	-2.0	-1.9	-1.9	
30° 0'	-1.8	-1.8	-1.8	-1.7	-1.7	-1.8	-1.8	-1.8	-1.8	-1.8	-2.0	-1.9	-1.9	
		119° 0'	55	50	45	40	35	30	25	20	15	10	5	118° 0'
		LONGITUDE WEST												

22W

9940-W

22W

5540 W

		LONGITUDE WEST												
		118° 0'	55	50	45	40	35	30	25	20	15	10	5	117° 0'
LATITUDE	33° 0'	-2.0	-2.0	-1.9	-1.9	-1.8	-2.0	-1.7	-1.7	-1.9				
	55	-2.0	-2.0	-1.9	-1.9	-1.8	-2.0	-1.8	-1.7	-1.9	-1.9			
	50	-2.0	-2.0	-1.9	-1.9	-1.8	-2.0	-1.8	-1.7	-1.9				
	45	-2.0	-1.9	-1.9	-1.9	-1.8	-2.0	-1.8	-1.7	-1.9	-2.0			
	40	-2.0	-1.9	-1.9	-1.9	-1.8	-1.9	-1.8	-1.7	-1.8	-2.0	-2.1		
	35	-2.0	-1.9	-1.9	-1.9	-1.8	-1.8	-1.9	-1.8	-1.8	-2.0	-2.0		
	30	-2.0	-1.9	-1.9	-1.9	-1.8	-1.8	-1.9	-1.7	-1.8	-1.9	-2.1		
	25	-2.0	-1.9	-1.9	-1.9	-1.8	-1.8	-2.0	-1.8	-1.8	-1.9	-2.0	-2.0	
	20	-2.0	-1.9	-1.9	-1.9	-1.8	-1.8	-2.0	-1.8	-1.8	-1.9	-2.1	-2.2	
	15	-1.9	-1.9	-1.9	-1.9	-1.8	-1.8	-2.0	-1.8	-1.8	-1.8	-2.2	-2.0	-2.0
	10	-1.9	-1.9	-1.9	-1.9	-1.9	-1.8	-2.0	-1.8	-1.8	-1.8	-2.1	-1.9	-2.1
	5	-1.9	-1.9	-1.9	-1.9	-1.9	-1.8	-1.9	-1.8	-1.8	-1.8	-2.0	-2.0	-2.1
	32° 0'	-1.9	-1.9	-1.9	-1.9	-1.9	-1.8	-1.9	-1.9	-1.8	-1.8	-1.9	-2.0	-2.2
	55	-1.9	-1.9	-1.8	-1.9	-1.9	-1.8	-1.8	-1.9	-1.8	-1.8	-1.9	-2.1	-2.1
	50	-1.9	-1.9	-1.8	-1.9	-1.9	-1.8	-1.8	-1.9	-1.8	-1.8	-1.9	-2.2	-2.0
45	-1.9	-1.9	-1.8	-1.8	-1.9	-1.8	-1.8	-1.9	-1.8	-1.8	-1.8	-2.1	-2.0	
40	-1.9	-1.9	-1.8	-1.8	-1.8	-1.8	-1.8	-1.9	-1.8	-1.8	-1.8	-2.1	-2.0	
35	-1.9	-1.9	-1.8	-1.9	-1.8	-1.8	-1.8	-1.9	-1.8	-1.8	-1.8	-2.1	-2.0	
30	-1.9	-1.9	-1.9	-1.9	-1.8	-1.8	-1.8	-1.9	-1.8	-1.8	-1.8	-2.0	-2.1	
NORTH	25	-1.9	-1.9	-1.9	-1.9	-1.8	-1.8	-1.8	-1.9	-1.8	-1.8	-1.8	-1.9	-2.1
	20	-1.9	-1.9	-1.9	-1.9	-1.8	-1.8	-1.8	-1.9	-1.9	-1.8	-1.8	-1.9	-2.1
	15	-1.9	-1.9	-1.9	-1.8	-1.8	-1.8	-1.8	-1.9	-1.8	-1.8	-1.8	-1.9	-2.1
	10	-1.9	-1.9	-1.9	-1.8	-1.8	-1.9	-1.8	-1.8	-1.9	-1.8	-1.8	-1.9	-2.1
	5	-1.9	-1.9	-1.9	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.9	-2.1
	31° 0'	-1.9	-1.9	-1.9	-1.8	-1.9	-1.8	-1.8	-1.8	-1.9	-1.8	-1.8	-1.9	-2.0
	55	-1.9	-1.9	-1.9	-1.8	-1.9	-1.8	-1.8	-1.8	-1.9	-1.8	-1.8	-1.8	-1.9
	50	-1.9	-1.9	-1.9	-1.8	-1.9	-1.8	-1.8	-1.8	-1.9	-1.8	-1.8	-1.8	-1.9
	45	-1.9	-1.9	-1.9	-1.8	-1.8	-1.8	-1.8	-1.8	-1.9	-1.8	-1.8	-1.8	-1.9
	40	-1.9	-1.9	-1.9	-1.8	-1.8	-1.8	-1.8	-1.8	-1.9	-1.8	-1.8	-1.8	-1.9
	35	-1.9	-1.9	-1.9	-1.9	-1.8	-1.8	-1.8	-1.8	-1.9	-1.8	-1.8	-1.8	-1.9
	30	-1.9	-1.9	-1.9	-1.9	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.9
	25	-1.9	-1.9	-1.9	-1.9	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8
	20	-1.9	-1.9	-1.9	-1.9	-1.8	-1.8	-1.8	-1.8	-1.8	-1.9	-1.8	-1.8	-1.8
	15	-1.9	-1.9	-1.9	-1.9	-1.8	-1.8	-1.8	-1.8	-1.8	-1.9	-1.8	-1.8	-1.8
10	-1.9	-1.9	-1.9	-1.9	-1.8	-1.8	-1.8	-1.8	-1.8	-1.9	-1.8	-1.8	-1.8	
5	-1.9	-1.9	-1.9	-1.9	-1.8	-1.9	-1.8	-1.8	-1.8	-1.9	-1.8	-1.8	-1.9	
30° 0'	-1.9	-1.9	-1.9	-1.9	-1.8	-1.8	-1.8	-1.8	-1.8	-1.9	-1.8	-1.8	-1.8	
		118° 0'	55	50	45	40	35	30	25	20	15	10	5	117° 0'
		LONGITUDE WEST												