

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

2Y							13U-Y						
					L	ONGIT	UDE V	VEST					
	71° 0′	55	50	45	40	35	30	25	20	15	10	5	70°
45° 0'													
55 50 45 40 35 30													
25 20 15 10 5 L 44 0													
L 44 0 A 55 I 50 T 45 U 40 D 35 E 30									0.2	0.0	-0.0 0.1 0.2 0.1	-0.1 0.2 0.1 1.0	0.1 1.1 1.0 1.1
25 N 20 O 15 R 10 T 5 H 43* O				1.7	1.5 0.3	1.5 0.3 0.2 0.2	1.6 0.1 0.1 0.2 0.2	0,1 0.1 0.2 0.2 1.1	0.1 0.1 0.1 0.2 1.1	0.2 0.1 1.0 1.1 1.1	0.1 1.0 1.1 1.1 1.1	1.0 1.0 1.0 1.1 1.0 0.9	1.0 0.9 1.0 1.0 0.9 0.8
55 50 45 40 35 30			0.2	0.3 0.1 0.1	0.2 0.1 0.1 1.1 1.1	0.2 0.1 0.1 1.0 1.0	0.2 1.0 0.9 1.0 1.0	1.0 1.0 1.0 1.0 1.0	1.0 0.9 0.9 0.9 1.1 1.4	1.0 0.9 0.9 0.9 1.1 1.5	0.9 0.9 0.9 1.0 1.2 1.4	0.8 0.8 0.9 1.3 1.6	0.8 0.8 0.8 1.0 1.4 1.6
25 20 15 10 5 42° 0	0.4 0.6	0.4 0.5	0.4 0.7	1.2 1.6 1.8	1.3 1.7 1.9 1.9	1.5 1.8 1.8 1.9 1.9	1.5 1.8 1.8 1.8 1.8 1.8	1.6 1.8 1.8 1.8 1.8 1.7	1.7 1.7 1.8 1.7 1.7	1.7 1.7 1.7 1.7 1.8 1.8	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 1.7 1.7 1.7 1.7
ï	71*	55	50	45	40	35	30	25	20	15	10	5	70°
		<u></u>				LONGI	TUDE	WEST				_	

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						90	30-Y						3Y_
			;		L	ONGIT	UDE V	VEST					
	70° 0′_	55	50	45	40	35	30	25	20	15	10	_5	0. 68.
45* 0'	•												
55 50 45 40 35 30													
25 20													0.9
15 10 5											1.1	1.4 0.5	1.0 1.0 0.7 0,5
L 44° 0° I A T 55						,	(₹+ agt +	0.9	0.9	1.0	0.7	0.5	0.5
1 50 T 45 U 40 D 35 E 30	0.1 1.1 1.0 1.1	1.1 1.1 1.0 1.0	1.1 0.9 1.0	1.0 1.0 1.0 0.8	1.0 0.9 0.9 0.7	1.0 0.9 0.7 0.8 0.7	0.9 0.8 0.7 0.8 0.7	0.8 0.7 0.8 0.7 0.8	0.8 0.7 0.9 0.7 0.7	0.8 0.6 0.6 0.5 0.6	0.5 0.5 0.6 0.5 0.6	0.5 0.6 0.5 0.7 0.8	0.6 0.8 0.7 0.7 0.8
25 N 20 O 15 R 10 T 5 H 43* O	1.0 0.9 1.0 1.0 0.9 0.8	0.9 1.0 1.0 1.0 0.8 0.7	0.9 0.9 1.0 0.9 0.8 0.7	0.8 0.9 0.9 0.8 0.7 0.7	0.8 0.9 0.9 0.8 0.7	0.8 0.9 0.9 0.7 0.7	0.8 0.9 0.8 0.7 0.6 0.6	0.9 0.8 0.7 0.5 0.5	0.7 0.6 0.6 0.5 0.5 0.5	0.7 0.6 0.5 0.5 0.6 0.7	0.7 0.7 0.7 0.6 0.6 0.7	0.8 0.7 0.6 0.6 0.6 0.8	0.7 0.6 0.6 0.7 0.7 1.0
55 50 45 40 35 30	0.8 0.8 0.8 1.0 1.4 1.6	0.7 0.8 0.9 1.2 1.4 1.6	0.7 0.7 0.9 1.3 1.6	0.7 0.8 1.0 1.4 1.6 1.6	0.8 0.9 1.1 1.3 1.5 1.5	0.6 0.8 1.1 1.4 1.5 1.6	0.5 0.8 1.2 1.5 1.5	0.7 0.9 1.2 1.5 1.6 1.6	0.7 1.2 1.5 1.6 1.6	1.0 1.3 1.5 1.6 1.6 1.6	1.0 1.3 1.5 1.6 1.6 1.7	1.2 1.5 1.6 1.6 1.6 1.6	1.3 1.5 1.6 1.6 1.6
25 20 15 10 5 42' 0	1.7 1.7 1.7 1.7 1.7	1.7 1.7 1.7 1.7 1.7	1.7 1.7 1.6 1.6 1.6 1.6	1.6 1.6 1.5 1.6 1.6	1.5 1.6 1.6 1.6 1.6	1.5 1.5 1.6 1.6 1.7	1.6 1.7 1.7 1.7 1.7	1.6 1.6 1.7 1.7 1.7	1.6 1.6 1.6 1.7 1.7	1.6 1.6 1.7 1.7 1.7	1.7 1.7 1.7 1.7 1.7	1.6 1.6 1.7 1.7 1.7	1.6 1.6 1.6 1.6 1.6
	70° 0′	55	50	45	40	35	30	25	20	15	10	5	69°
						LONG	TUDE	WEST					

4Y				_			130-1						
					ı	ONGIT	UDE V	VEST					
	0, 69.	55	50	45	40	35	30	25	20	15	10	5	68.
45° 0′													
55 50 45 40 35 30													ı
25 20	0.9	0.8	0.6							0.9	1.0 0.7	1.0	0.3
15 10 5	1.0 1.0 0.7 0.5	0.9 0.9 0.8 0.8	0.7	1.3 0.9 0.8 0.7	0.7 0.8	1.1 0.8 0.7 0.5	0.7 0.6 0.6	0.9 0.7 0.6	0.6 0.5 0.4	0.7 0.6 0.5 0.4	0.6 0.5 0.4 0.5	0.7 0.6 0.5 0.6	0.1 0.0 0.1
L 44° 0° A T 55 I 50	0.5 0.6	0.7 0.6	0.6 0.7	0.7 0.7	0.6 0.6	0.5 0.5	0.6 0.6	0.7 0.5	0.5 0.5	0.4 0.4	0.4 0.5	0.5 0.5	0.1 0.2
T 45	0.8 0.7	0.6 0.6	0.7 0.7	0.6 0.7	0.6 0.6	0.6 0.7	0.6 0.7	0.6 0.6	0.6 0.6	0.5 0.5	0.6 0.6	0.6 0.6	0.2 0.2
T 45 U 40 D 35 E 30	0.7 0.8	0.7 0.8	0.8 0.8	0.8 0.7	0.7 0.6	0.7 0.6	0.7 0. 8	0.6 0.5	0.5 0.5	0.5 0.4	0.5 0.4	0.5 0.4	0.1 0.1
25 N 20 O 15 R 10 T 5 H 43' 0'	0.7 0.6 0.6 0.7 0.7	0.8 0.7 0.6 0.6 0.7 1.0	0.7 0.6 0.6 0.6 0.8 1.2	0.6 0.5 0.5 0.6 0.8 1.2	0.5 0.6 0.5 0.7 1.0 1.3	0.6 0.6 0.8 0.8 1.2 1.5	0.6 0.6 0.5 0.8 1.2 1.4	0.5 0.6 0.9 1.2 1.4	0.4 0.5 0.6 1.0 1.3 1.4	0.4 0.4 0.7 1.1 1.3	0.5 0.9 1.2 1.4 1.5	0.5 0.6 1.0 1.3 1.4	0.1 0.4 0.8 1.0 1.1
55	1	1.3	1.4	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.5	1.5	1.1
50 45	1.3 1.5 1.6 1.6	1.5 1.5 1.6	1.5 1.5	1.5 1.5	1.6 1.6	1.6 1.5 1.5	1.5 1.5 1.5	1.4	1.4	1.5 1.5 1.5	1.5 1.5 1.5	1.5 1.5 1.2 1.2	1.2 1.2 1.2 1.2
40 35 30	1.6 1.6 1.6	1.6 1.6 1.6	1.5 1.5 1. 6	1.6 1.6 1.6	1.6 1.6 1.6	1.5 1.6	1.5 1.6	1.5 1.5 1.5	1.4 1.5 1.5	1,5 1,5	1.6 1.6	1.2	1.2
25 20 15 10 5	1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.7 1.7	1.6 1.7 1.7 1.7 1.7	1.7 1.7 1.7 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.5 1.6 1.6 1.5 1.5	1.5 1.5 1.5 1.5 1.5	1.5 1.5 1.5 1.5 1.5	1.6 1.6 1.6 1.8 1.5	1.6 1.6 1.6 1.6 1.6	1.2 1.2 1.2 1.2	1.2
42 0	1.6	1.7	1.7	1,7	1.6	1.6	1.5	1.5	1.5	1.5	1.6	1.2	1.2
	69,	55	50	45	40	35	30	25	20	15	10	5	68°
<u></u>			_			LONG	TUDE	WEST		<u> </u>		<u></u> .	

						59	130-Y			_			5Y
					ı	ONGIT	UDE V	VEST					
	0, 68,	55_	50	45	40	35	30_	25	20	15_	10	5_	67°
45° 0'													
55 50 45 40 35 30			0.7	0.7	0.8		0.8	0.9 0.5	0.7 0.9 0.4	0.9 0.3	0.9 0.7 0.3	0.9 0.4 0.2	0.9 0.8 0.3 0.0
25 20 15 10 5 L 44 0	0.3 0.1 0.1 0.0 0.1	0.7 0.3 0.2 0.1 0.0 0.1	0.4 0.2 0.1 -0.0 0.1 0.0	0.4 0.2 0.1 0.0 0.2 0.1	0.3 0.1 0.0 0.0 0.1 0.1	0.3 0.2 0.1 0.0 0.1 0.1	0.2 0.1 0.0 0.1 0.1 0.2	0.2 0.1 0.1 0.2 0.1 0.1	0.2 0.1 0.1 0.1 0.1 0.2	0.1 -0.0 0.1 0.1 0.1 0.2	0.2 0.1 0.2 0.0 0.0 0.1	0.1 0.0 0.2 0.1 0.2 0.2	0.0 -0.0 0.1 0.0 0.2 0,2
L 44 0' A 55 I 50 T 45 U 40 D 36 E 30	0.1 0.2 0.2 0.2 0.1 0.1	0.1 0.2 0.2 0.1 0.0 0.1	0.1 0.2 0.2 0.1 0.1 0.1	0.1 0.2 0.2 0.1 0.0 0.1	0.1 0.2 0.1 0.0 0.1	0.1 0.1 0.0 -0.0 0.0 0.2	0.2 0.2 0.1 0.0 0.1 0.3	0.2 0.1 0.1 0.1 0.1 0.5	0.2 0.1 0.1 0.1 0.2 0.6	0.2 0.1 0.1 0.1 0.3 0.8	0.1 0.1 0.1 0.1 0.5 0.8	0.1 -0.1 -0.0 0.0 0.6 1.0	0.2 0.1 0.1 0.3 0.7 1.0
25 N 20 O 15 R 10 T 5 H 43' O	0.1 0.4 0.8 1.0 1.1	0.1 0.5 0.8 1.0 1.1	0.2 0.6 1.0 1.1 1.1	0.3 0.8 1.0 1.1 1.1	0.4 0.8 1.0 1.1 1.1	0.6 1.0 1.1 1.1 1.1	0.7 1.0 1.1 1.1 1.1	0.8 1.1 1.1 1.1 1.2 1.2	1.0 1.1 1.1 1.2 1.2 1.2	1.1 1.1 1.2 1.2 1.2 1.2	1.1 1.2 1.2 1.2 1.2 1.3	1.1 1.2 1.2 1.2 1.2 1.3	1.0 1.1 1.2 1.2 1.2 1.3
55 50 45 40 35 30	1.1 1.2 1.2 1.2 1.2 1.3	1.1 1.2 1.2 1.2 1.3 1.3	1.1 1.2 1.2 1.2 1.2 1.2	1.2 1.2 1.3 1.3 1.3	1.2 1.2 1.2 1.3 1.3	1.2 1.2 1.3 1.3 1.3	1.1 1.2 1.2 1.3 1.2 1.2	1.2 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.2 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1,3 1,3 1,3 1,3 1,3	1.3 1.3 1.3 1.3 1.3
25 20 15 10 5 42° 0	1.3 1.2 1.2 1.2 1.2	1.3 1.3 1.2 1.2 1.2 1.2	1.2 1.2 1.2 1.2 1.2 1.2	1.3 1.2 1.2 1.2 1.2 1.2	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.2 1.2 1.2 1.2	1.3 1.3 1.3 1.2 1.2 1.2	1.2 1.2 1.2 1.2 1.2 1.2	1.8 1.3 1.3 1.3 1.3 1.3	1.3 1.3 1,3 1,3 1.3	1.3 1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3
	68° Oʻ	55	50	45	40	35	30	26	20	15	10	5	67 O
						LONGI	TUDE	WEST					

<u> </u>								_					
•						LONGI	TUDE '	WEST					- 1
	67° Oʻ	55	50	45	40	35	30	25	20	15_	10	5_	66°
45' 0'	-	0.5	0.7	1.0	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5
55 50 45 40	0.9 0.8	0.9 0.9 0.7	0.7 0.8	1.0 0.8 0.9	0.9 1.0 1.0 0.4	0.4 0.9 0.9 0.5	0.4 0.4 0.4 0.2	0.4 0.4 0.3 -0.3	0.4 0.4 -0.1 -0.4	0.5 0.5 -0.1 -0.4	0.4 0.5 -0.2 -0.4	0.5 0.4 -0.2 -0.4	
35 30	0.3	0.3	0.2 0.0	0.2 0.0	0.1 0.0	0.2 -0.1	0.2 0.1	0.1 -0.0	-0.5 -0.5	-0.5 -0:5	-0.5 -0.4	-0.5	-0.6 -0.5
25 20 15 10	0.0 -0.0 0.1 0.0 0.2	-0.0 -0.0 -0.1 0.1 0.2	-0.1 -0.1 -0.1 -0.0	-0.1 0.0 -0.1 0.0 0.1	-0.0 -0.0 -0.0 0.0	-0.0 -0.0 0.0 0.1 0.0 -0.1	0.1 -0.1 0.1 0.1 0.0 -0.1	0.2 0.1 0.0 0.0 0.0 -0.1	0.0 0.0 0.2 -0.0 -0.1	-0.5 0.1 0.1 0.2 0.0	-0.4 -0.4 -0.0	-0.5	
L 44° 0° A 55 I 50 T 45 U 40 D 35 E 30	0.2 0.1 0.1 0.3 0.7 1,0	0.1 0.0 0.1 0.4 0.8 1:1	0.1 -0.0 0.0 0.0 0.5 0.8 1.2	-0.0 -0.1 -0.1 0.2 0.6 1.0	-0.0 -0.1 -0.1 0.2 0.6 1.0	-0.1 -0.1 -0.1 0.4 0.8 1.0	-0.0 0.0 0.5 0.9 1.1	-0.1 0.2 0.6 1.0 1.0	-0.0 0.3 0.7 1.0 1.1	-0.1 0.4	0.2 0.6 0.9 1.1	1.1 1.1; 1.2	1,4
25 N 20 O 15 R 10 T 5 H 43' O	1,0 1,1 1,2 1,2	1.2 1.2 1.2 1.1 1.2	1.2 1.3 1.3 1.3 1.3	1.2 1.2 1.3 1.3 1.3	1.2 1.2 1.3 1.3	1.1 1.2 1.2 1.3 1.3	1.1 1.1 1.2 1,3 1.3	1.2 1.2 1.2 1.2 1.2 1.2	1.1 1.2 1.2 1.3 1.3	1.2 1.2 1.3 1.3 1.3	1.2 1.3 1.3 1.3 1.3	1.2 1.3 1.3 1.3 1.3	1.2 1.3 1.4 1.3 1.3
55 50 45 40 35 30	1.3 1.3 1.3 1.3 1.3	1,3 1,3 1,3 1,3 1,3	1.3 1.2 1.2 1.2 1.2 1.3	1.4 1.4 1.3 1.2	1.4 1.4 1.4 1.4 1.3	1:3 1.3 1.4 1.4 1.4	1.3 1.3 1.3 1.3 1.3	1.2 1.3 1.3 1.3 1.3	1,2 1,2 1,2 1,2 1,3	1.3 1.3 1.2 1.2 1.2	1.2 1.3 1.3 1.3 1.2 1.2	1.3 1.2 1.2 1.2 1.3 1.2	1.3 1.3 1.2 1.2
25 20 15 10 5 42 0	1.3 1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.2 1.2	1,4 1,3 1,4 1,3 1,3	1.4 1.4 1.4 1.4 1.3	1.3 1.3 1.3 1.3 1.4	1.3 1,3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3	1.2 1.2 1.2 1.2 1.2 1.2	1.2 1.2 1.2 1.2 1.2 1.2
	67 0		50	45	40	35	30	25	20	15	10	5	66
						LONG	ITUDE	WES'	<u> </u>		 -		a ' · p -

				_,		08	930-Y						/ Y
]					ı	ONGIT	UDE V	VEST					
	71° 0′	5 <u>5</u>	50	45	40	35	30	25	20	15	10	5	70°
42* 0'					1.9	1.9	1.8	1.7	1.7	1.8	1.7		1.7
55 50 45				2.1			1.8 1.7	1.7 1.7 1.8	1.7 1.8 1.8	1.7 1.8 1.8	1.7 1.8	1.8	
40 35 30	2.4	2.2 2.1	2.1 1.9	2.1 1.9	1.9	1.9	1.9	1.8 1.9	1.8 1.9	1.9 2.0	2.0 1.9	1.9 1.9	1.7
25 20	2.0 2.1	1.9 1.9	2.1	2.0 1.9 2.0	2.0 2.0	1.9 2.0	1.9 2.0 1.9	1.9 1.9 1.9	1.9 1.9 2.0	2.0 1.9 1.8	1.9 1.8 1.8	1. 8 1.7	1.7
15 10 5 L 41° 0'	2.0 2.0 2.1 2.1	2.0 2.1 2.0 2.1	2.0 2.1 2.0 2.0	2.0 2.0 1.9	2.0 1.9 1.9	1.9 1.8 1.9	1.9 1.8 1.9	1.9 1.9 1.9	1.8 1.9 1.9	1.8 1.8 1.8	1.8 1.7 1.7	1.7 1.7 1.7	1.7 1.6 1.7
A T 55 I 50 T 45	2,0 2.1 2.0	2.0 2.0 2.0	2.0 2.0 2.0	2.0 2.0 1.9	1.9 1.9 1.9	1.9 1.9 1.9	1.9 2.0 1.9	1.9 1.9 1.9	1.9 1.8 1.8	1.8 1.7 1.7	1.7 1.7 1.7	1.7 1.6 1.7	1.7 1.7 1.7
U 40 D 35 E 30	2.0 2.0 2.0	2.0 2.0 1.9	1.9 1.9 1.9	1.9 1.9 1.9	1.9 1.9 1.9	2.0 1.9 1.9	1.9 1.9 1.9	1.8 1.8 1.8	1.8 1.7 1.7	1.7 1.7 1.7	1.7 1.6 1.7	1.7 1.7 1.7	1.7 1.8 1.7
25 N 20 O 15	2.0 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 1.9	1.9 1.9 1.8	1.8 1.8 1.8	1.8 1.7 1.7	1.7 1.7 1.7	1.7 1.6 1.7	1.7 1.7 1.7	1.7 1.8 1.7	1.7 1.7 1.7
R 10 T 5 H 40° 0′	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 1.9 1.8	1.8 1.8 1.8	1.7 1.7 1.7	1.7 1.7 1.7	1.7 1.6 1.7	1.7 1.7 1.7	1.7 1.7 1.8	1.7 1.7 1.7	1.7 1.7 1.7
55 50	1.9 1.9	1.9 1.9	1.9 1.9	1.9 1.9	1.8	1.7	1.7 1.7	1.7 1.6 1.7 1.7	1.7 1.7	1.7 1.8	1.7 1.7 1.7 1.7	1.7 1.7 1.7	1.7 1.7 1.7
45 40 35 30	1.9 1.9 1.9 1.9 1.9	1.9 1.9 1.9 1.9	1.9 1.9 1.8 1.8	1.8 1.8 1.8 1.8	1.8 1.7 1.7 1.7	1.7 1.7 1.7 1.7	1.7 1.7 1.6 1.7	1.7 1.7 1.7	1.7 1.7 1.7 1.8	1.8 1.8 1.8 1.8	1.7 1.7 1.7	1.7 1.7 1.7	1.7 1.7 1.7
25 20	1.9	1. 9 1.8	1.8 1.8	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 1.8 1.8	1.8 1.8 1.8	1.7 1.7 1.7	1.7 1.7 1.7	1.7 1.7 1.7	1.8 1.8 1.8
15 10 5 39* 0'	1.9 1.9 1.8 1.8	1.8 1.8 1.8 1.8	1.8 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 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	1.7 1.7 1.7	1.7 1.8 1.8	1.8 1.8 1.8
	71° 0′	55	50	45	40	35	30	25	20	15	10	5	70° 0′
					_	LONGI	TUDE	WEST					

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				L	ONGIT	ŲDE V	VEST					
70° 0'	55	50	45	40	35	30_	25	20	1 <u>5</u>	10	5	0, 69,
1.7	1.6	1.6	1.7	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6
1.7	1.7 1.6 1.7 1.7 1.7	1.6 1.7 1.7 1.6 1.6 1.7	1.6 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 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 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	1.7 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6
1.7 1.6 1.7	1.6 1.6 1.7 1.7 1.7	1.7 1.7 1.7 1.8 1.8	1.8 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 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 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 1.6	1.6 1.6 1.6 1.7 1.7	1.7 1.7 1.7 1.7 1.7
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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 1.7 1.7 1.7 1.8	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 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	1.7 1.6 1.6 1.6 1.6 1.6	1.6 1.7 1.7 1.7 1.7	1.7 1.7 1.7 1.7 1.7	1.7 1.7 1.7 1.7 1.7	1.7 1.7 1.7 1.7 1.7
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1.8 1.8 1.8 1.8 1.8	1.8 1.8 1.8 1.8 1.8	1.7 1.8 1.7 1.8 1.7 1.8	1.7 1.7 1.8 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 1.7	1.7 1.7 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	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 1.7 1.7	1.6 1.6 1.6 1.6 1.6 1.6
		50	45	40	35 LONG	30 ITUDE	25 WEST	20	15	10	5	69°
	1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	0' 55 1.7 1.6 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.6 1.7 1.7 1.7 1.8 1.8 1	0' 55 50 1.7 1.6 1.6 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.6 1.7 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.8 1.7 1.7 1.7 1.8 1.6 1.7 1.7 1.7 1.7 1.8 1.7 1.8 1.8 1.7 1.8 1.8 1.7 1.8 1.8 1.7 1.8 1.8 1.8 1.8 1.7 1.8 1.8 1.8 1.8 1.8 1.7 1.8 1.8 1.8 1.8 1.8 1.7 1.8 1.8 1.8 1.8 1.8 1.8 1.9 1.8 1.8 1.7 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.9 1.8	0° 55 50 45 1.7 1.6 1.6 1.7 1.7 1.6 1.6 1.7 1.7 1.6 1.7 1.8 1.7 1.6 1.7 1.7 1.7 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 1.7 1.7 1.7 1.8 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 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 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 1.7 1.8 1.7 1.7 1.8 1.8 1.7 1.7 1.8 1.8 1.7 1.7 1.8 1.8 1.7 1.8 1.8 1.7 1.7 1.8 1.8 1.7 <th>70° 55 50 45 40 1.7 1.6 1.6 1.7 1.6 1.7 1.6 1.7 1.8 1.7 1.7 1.6 1.7 1.7 1.7 1.7 1.6 1.7 1.7 1.7 1.7 1.6 1.7 1.7 1.7 1.7 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 1.7 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1.8 1.7 1.7 1.6 1.7 1.7 1.7 1.7 1.6 1.7 1.7 1.7 1.7 1.6 1.7 1.7 1.7 1.7 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 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 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 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	70° 55 50 45 40 35 1.7 1.6 1.6 1.7 1.6 1.7 1.7 1.6 1.7 1.7 1.7 1.6 1.7 1.6 1.7 1.7 1.7 1.6 1.7 1.7 1.7 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.6 1.7 1.7 1.7 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.6 1.7 1.8 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 1.7 1.7 1.7 1.7 1.7 1.8 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 <t< th=""><th>70° 55 50 45 40 35 30 1.7 1.6 1.6 1.7 1.6 1.7 1.7 1.7 1.6 1.6 1.7 1.7 1.7 1.7 1.6 1.7 1.8 1.7 1.7 1.7 1.7 1.6 1.7 1.8 1.7 1.7 1.7 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.7 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 1.7 1.7 1.7 1.8 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.8 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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.	O' 56 50 45 40 36 30 28 1.7 1.6 1.6 1.7 1.6 1.7 1.7 1.7 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.6 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.6 1.7 1.	70° 55 50 45 40 35 30 25 20 1.7 1.6 1.6 1.7 1.6 1.7	70° 55 50 45 40 35 30 25 20 15 1.7 1.6 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.6 1.7 <td< th=""><th>70° 55 50 45 40 35 30 25 20 15 10 1.7 1.6 1.6 1.7 1.6 1.7 <t< th=""><th>70° 55 50 45 40 35 30 25 20 15 10 5 1.7 1.6 1.6 1.7</th></t<></th></td<>	70° 55 50 45 40 35 30 25 20 15 10 1.7 1.6 1.6 1.7 1.6 1.7 <t< th=""><th>70° 55 50 45 40 35 30 25 20 15 10 5 1.7 1.6 1.6 1.7</th></t<>	70° 55 50 45 40 35 30 25 20 15 10 5 1.7 1.6 1.6 1.7

							13U-T						
						ONGIT	UDE V	VEST					
ļ	0, 69,	55	50	45	40	35	30	25	20	15	10	5	68°
42° 0'	1.6	1.7	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.5	1.6	1.2	1.2
55 50 45 40 35 30	1.6 1.6 1.6 1.6 1.7	1.7 1.6 1.7 1.6 1.7	1.7 1.7 1.7 1.7 1.7 1.7	1.7 1.7 1.7 1.7 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6 1.5	1.5 1.5 1.5 1.5 1.5 1.6	1.5 1.5 1.5 1.6 1.5	1.5 1.5 1.5 1.5 1.5	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.5 1.5	1.2 1.2 1.2 1.2 1.2 1.2	1.2 1.2 1.2 1.2 1.2
25 20 15 10 5 L 41' 0'	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 1.7 1.7 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.5 1.5 1.5 1.5 1.5	1.5 1.5 1.5 1.5 1.5	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.2 1.2 1.2 1.2 1.2 1.3	1.3 1.3 1.3 1.3 1.3
L 41' 0' A T 55 I 50 T 45 U 40 D 35 E 30	1.7 1.7 1.7 1.7 1.7	1:7 1.7 1.7 1.7 1.7	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.5 1.5 1.5 1.5 1.5	1.5 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3
25 N 20 O 15 R 10 T 5 H 40° 0'	1.7 1.7 1.7 1.7 1.7	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6 1.6	1.6 1.5 1.5 1.6 1.5	1.6 1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3
55 50 45 40 35 30	1.7 1.6 1.6 1.7 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.5 1.6 1.6	1.6 1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3 1.3
25 20 15 10 5 39* 0′	1.6 1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.7 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.6 1.6 1.7	1.6 1.6 1.6 1.7 1.7	1.6 1.6 1.6 1.6 1.6 1.6	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.4 1.4 1.4	1.3 1.3 1.3 1.3 1.4 1.4
	69'	55	50	45	40	35	30	25	20	15	10	5	0. 68,
						LONGI	TUDE '	WEST					_

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0Y							59.	30-Y						
* -						LO	ONGITU	JOE W	EST					ļ
		68* Oʻ	55	50	45	40	35	30	25	20	15	10	Б_	67°
42*	0,	1.2	1.2	1.2	1.2	1.3	1.2	1,2	1.2	1.3	1.3	1.3	1.3	1.3
		1.2	1.2			1.3		1.2	1.2	1.3	1.3	1.3	1.3 1.3	1.3
Į	56 50	1.2	1.2	1.2	1.2	1.3	1.2 1.2 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
	45 40	1,2 1,2 1,2 1,2	1.2	1.2 1.2 1.2 1.2 1.3 1.3	1.2 1.2 1.2 1.2 1.2	1.3 1.3 1.3	1.2 1.3 1.3	1,2 1,2 1,2 1,2 1,3 1,3	1.2 1.2 1.3 1.3	1.3 1.3 1.2 1.2 1.2	1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3	1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3
	35 30	1.2	1.2 1.3	1.3	1.2	1.3 1.3	1.3							
1	25 20	1.3	1.3	1.3 1.3 1.3	1.2	1.3	1.3 1.3	1.3 1.3 1.3	1.3 1.3 1.3 1.3	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	1.3 1.3 1.3 1.3 1.3	1.3
	15	1.3	1.3	1.3 1.3	1.2	1.3	1.3 1.3	1.3 1.3	1.3 1.3	1.2 1.2	1.3 1.3	1.3 1.3 1.3	1.3	1.3 1.3 1.3
	10	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3	1.2 1.2 1.2 1.2 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3	1.3 1.3	1.2 1.3	1.3 1.3	1.3 1.3	1.3 1.3	1.3
L 41°	0'					1.3				1.3	1.3	1.3	1.3	1.3
1	55 50	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3	1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.2 1.2	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3
ŭ	45 40	1.3 1.3	1.3	1.3	1.3	1.3 1.3	1.3	1.3 1.3 1.3	1.3 1.3	1.3 1.3	1.2 1.3 1.3 1.3	1.3 1.3	1.3 1.3	1.3 1.3 1.3
U D E	35 30	1.3 1.3	1.3 1.3	1.3	1.3	1.3	1.3	1.3	1.3 1.3		1.3			
ļ	25	1.3	1.3	1.3	1.3 1.3	1.3	1.3	1.3	1.3 1.3	1.3 1.3	1.3 1.3	1.3 1.3	1.3 1.3	1.3 1.3
N O	20 15	1.3 1.3	1.3	1.3	1.3	1.3 1.3 1.3 1.3	1.3	1.3	1.3	1.3 1.3	1.3 1.3 1.3	1.3 1.3	1.3 1.3	1.3 1.3 1.3
O R T	10	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3	1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3	1.3	1.3 1.3	1.3 1.3	1.3 1.3 1.3	1.3. 1.4
H 40								1.3					1.3	1.4
\	55 50	1.3 1.3 1.3 1.3	1.3 1.3	1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3	1.3 1.3 1.3	1.3 1.3 1.3	1.3 1.3 1.3	1.3 1.3 1.3 1.3	1.3 1.3 1.3	1.4 1.4	1.4 1.4
	45 40	1.3 1.3	1.3	1.3 1.3	1.3	1.3	1.3 1.4	1.3	1.3 1.3	1.3	1.3	1.3	1.4 1.4	1.4 1.4
	35 30	1.3	1.3 1.3	1.3 1.3	1.3 1.3	1.3	1.4 1.4	1.4 1.4	1.3	1.4	1.4	1.3	1.4	1.4
	25		1.3	1.3	1.3 1.3	1.3	1.4	1.4	1.4 1.4	1.4 1.4	1.4 1.4	1.3 1.4	1.4 1.4	1.4 1.4
	20 15	1.3 1.3 1.3	1.3 1.3	1.4 1.4	1.3 1.3 1.3	1.3 1.3 1.3	1.4 1.4	1.4 1.4	1.4	1.4 1.4	1.4 1.4	1.4	1.4	1.4 1.4
	10 5	1.3	1.3 1.4	1.4 1.4	1.4	1.3	1.4 1.4	1.4	1.4	1.4 1.4 1.4	1.4 1.4	1,4	1.4 1.4	1.4 1.4
38	. <u>o</u> .	1.4	1.4	1.4	1.4	1.3	1.4	1.4	1.4	1,4	1+	1,-	11-1	67
		68	· 55	50	45	40	35	30	25	20	15	10	5	Ö
1		\					LONG	ITUDE	WES]	<u> </u>				

						59	30-Y						
					L	ONGIT	UDE V	VEST					
	67°	55	50	45	40	35	30	25	20	15	10	. 5	66°
42' 0'	1.3	1.3	1.3	1.3	1.2	1.3	1.3	1.4	1.3	1.3	1.3	1.2	1.2
55 50 45 40 35 30	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.2 1.3 1.3 1.3 1.3 1.3	1.3 1.2 1.2 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.4 1.3 1.4 1.4 1.4 1.4	1.3 1.3 1.4 1.4 1.4	1.3 1.3 1.3 1.4 1.4	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.2 1.2 1.3 1.3
25 20 15 10 5 L 41° 0'	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.4 1.4	1.3 1.3 1.3 1.3 1.3 1.4	1.3 1.3 1.3 1.4 1.4 1.3	1.3 1.3 1.3 1.3 1.4 1.4	1.3 1.3 1.3 1.3 1.3 1.4	1.3 1.3 1.3 1.3 1.3	1.4 1.4 1.4 1.4 1.4	1.4 1.4 1.4 1.4 1.4	1.3 1.3 1.4 1.4 1.4	1.3 1.3 1.3 1.3 1.4 1.4	1.3 1.3 1.3 1.4 1.4
L 41° 0' A 55 I 50 T 45 U 40 D 35 E 30	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.3 1.3	1.3 1.4 1.4 1.3 1.3	1.4 1.4 1.4 1.4 1.4	1.4 1.4 1.4 1.4 1.4	1.4 1.4 1.4 1.4 1.4	1.4 1.4 1.4 1.4 1.4	1.3 1.4 1.4 1.4 1.4	1.3 1.3 1.3 1.3 1.3	1.4 1.4 1.4 1.4 1.3 1.3	1.4 1.4 1.4 1.4 1.4	1.4 1.4 1.4 1.4 1.4	1.4 1.4 1.4 1.4 1.4
25 N 20 O 15 R 10 T 5 H 40° 0'	1.3 1.3 1.3 1.3 1.3	1.3 1.3 1.3 1.4 1.4	1.3 1.3 1.3 1.3 1.4 1.4	1.4 1.4 1.4 1.4 1.4	1.4 1.4 1.4 1.4 1.4 1.4	1.4 1.4 1.4 1.4 1.4	1.4 1.4 1.4 1.4 1.4	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 1.3 1.3 1.4 1.4	1.4 1.4 1.3 1.3 1.3	1.4 1.4 1.5 1.5 1.4 1.4	1.5 1.5 1.5 1.5 1.5 1.5
55 50 45 40 35 30	1.4 1.4 1.4 1.4 1.4	1.4 1.4 1.4 1.4 1.4 1.4	1.4 1.4 1.4 1.4 1.4	1.4 1.4 1.4 1.4 1.4	1.4 1.4 1.4 1.4 1.4	1.4 1.4 1.4 1.5 1.5	1.4 1.4 1.5 1.4 1.5	1.4 1.4 1.4 1.5 1.5	1.4 1.4 1.5 1.5	1.4 1.4 1.5 1.5	1.4 1.4 1.4 1.4 1.5 1.5	1.4 1.4 1.4 1.4 1.4	1.5 1.5 1.5 1.5 1.5
25 20 15 10 5 39 0	1.4 1.4 1.4 1.4 1.4 1.4	1.4 1.4 1.4 1.4 1.4	1.4 1.4 1.4 1.4 1.4	1.4 1.4 1.4 1.4 1.4 1.5	1.4 1.4 1.4 1.4 1.4	1.5 1.5 1.5 1.4 1.5 1.4	1.5 1.5 1.5 1.5 1.5	1.5 1.5 1.5 1.5 1.5 1.5	1.5 1.5 1.5 1.5 1.5	1.5 1.5 1.5 1.5 1.5	1.5 1.5 1.5 1.5 1.5	1.4 1.5 1.5 1.5 1.5	1.4 1.4 1.4 1.4 1.4
	67' 0'	55	50	45	40	35	30	25	20	15	10	5	66 0
İ	<u> </u>					LONG	TUDE	WEST			 		