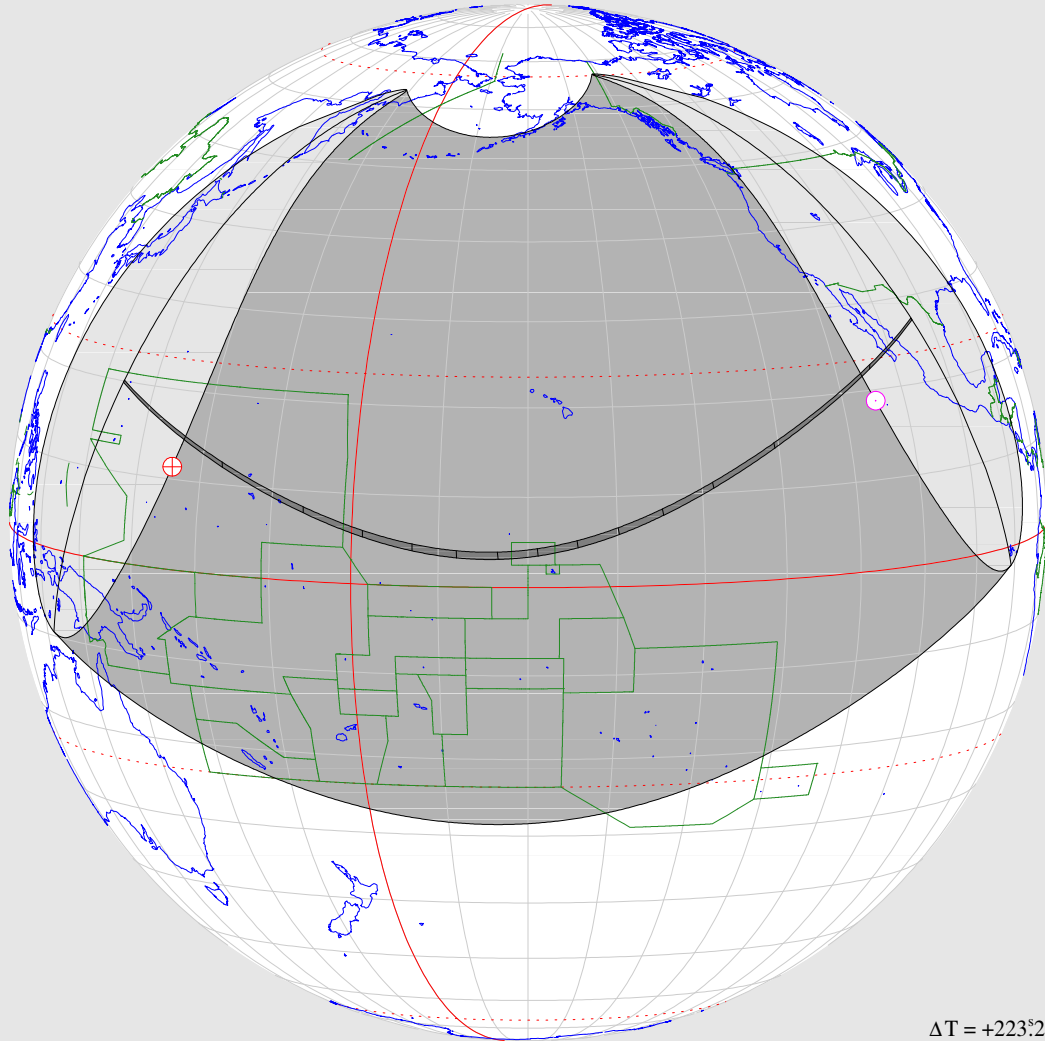


I. - Total Eclipse of the Sun

1535 January 03-04



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$\Delta T = +223^s.2$
Globe centred on W 160°0 and N 7°2

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	20 05.6	E 155 34.2	N 11 22.5
Beginning of southern limit of penumbra	21 06.5	E 132 00.0	S 9 31.1
Beginning of southern limit of umbra	21 06.8	E 143 55.8	N 19 50.4
Beginning of centre line; central eclipse begins	21 06.8	E 143 58.2	N 19 58.1
Beginning of northern limit of umbra	21 06.9	E 144 00.6	N 20 05.9
Beginning of northern limit of penumbra	22 15.9	E 169 03.1	N 62 56.4
Central eclipse at local apparent noon	22 45.2	W 158 52.2	N 3 55.1
End of northern limit of penumbra	23 08.0	W 141 41.1	N 66 48.5
End of northern limit of umbra	0 17.2	W 103 40.0	N 27 23.6
End of centre line; central eclipse ends	0 17.3	W 103 37.5	N 27 16.9
End of southern limit of umbra	0 17.3	W 103 35.0	N 27 10.3
End of southern limit of penumbra	0 17.6	W 91 08.7	S 2 06.8
⊙ Eclipse ends; last contact with Earth	1 18.5	W 114 53.6	N 18 45.5