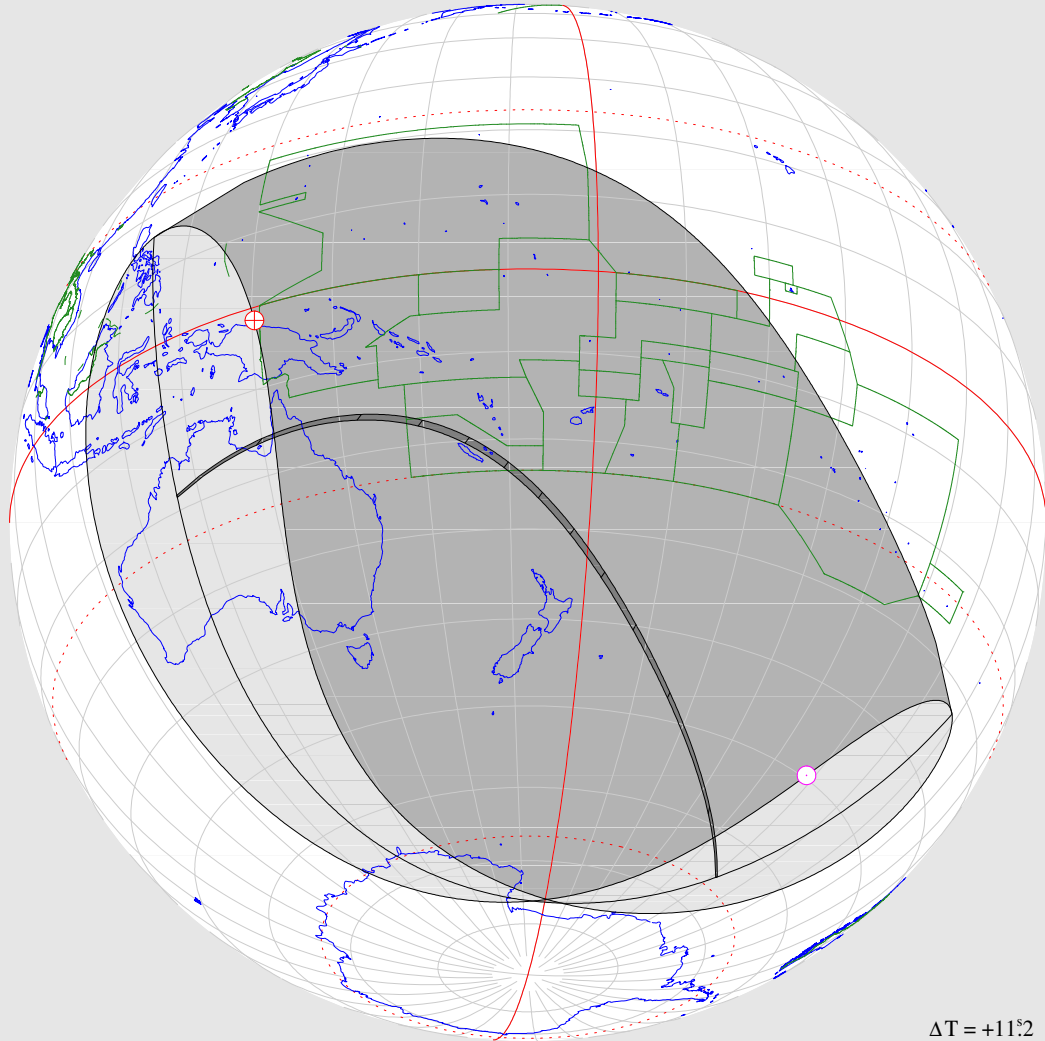


# IV. - Total Eclipse of the Sun

1822 August 16-17



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$\Delta T = +11^s.2$   
Globe centred on E 172°2' and S 29°3'

Circumstances	Time (UT)	Longitude	Latitude
	<sup>h</sup> <sup>m</sup>	<sup>o</sup> /	<sup>o</sup> /
⊕ Eclipse begins; first contact with Earth	20 44.3	E 140 20.1	S 1 39.4
Beginning of northern limit of penumbra	21 33.6	E 123 37.3	N 15 53.8
Beginning of northern limit of umbra	21 55.7	E 126 42.1	S 18 14.2
Beginning of centre line; central eclipse begins	21 55.8	E 126 41.8	S 18 22.1
Beginning of southern limit of umbra	21 56.0	E 126 41.6	S 18 30.1
Central eclipse at local apparent noon	23 49.1	W 176 17.3	S 36 06.7
End of southern limit of umbra	0 32.4	W 128 42.0	S 65 02.6
End of centre line; central eclipse ends	0 32.5	W 128 35.2	S 64 57.0
End of northern limit of umbra	0 32.7	W 128 28.4	S 64 51.5
End of northern limit of penumbra	0 55.1	W 111 44.3	S 32 32.6
⊙ Eclipse ends; last contact with Earth	1 44.3	W 131 43.7	S 49 38.1