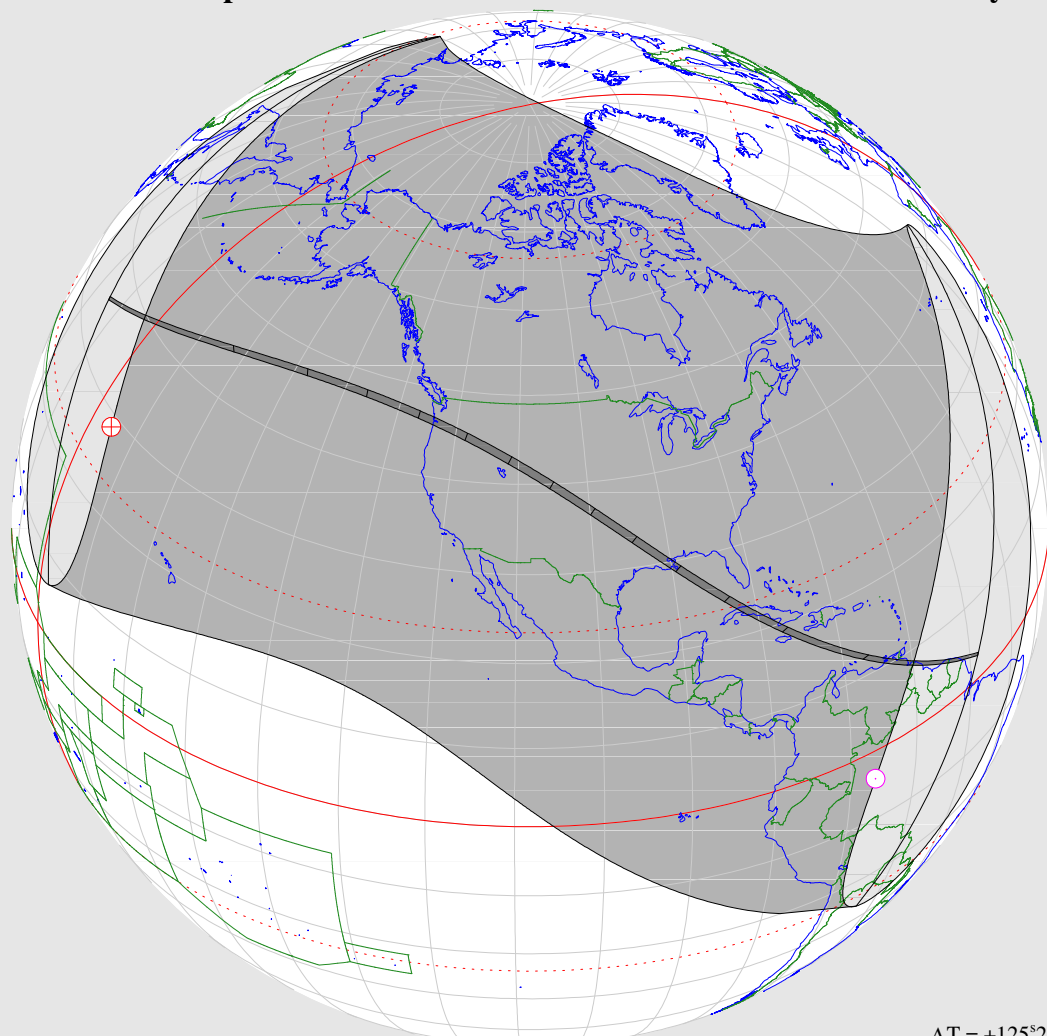


III. - Total Eclipse of the Sun

1618 July 21



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$\Delta T = +125^s.2$
Globe centred on W 108°3 and N 35°1

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	16 59.7	W175 21.1	N28 42.9
Beginning of southern limit of penumbra	17 45.9	W177 33.9	N 6 37.2
Beginning of southern limit of umbra	18 01.0	E 165 43.2	N35 25.7
Beginning of centre line; central eclipse begins	18 01.2	E 165 34.6	N35 35.9
Beginning of northern limit of umbra	18 01.4	E 165 25.9	N35 46.2
Beginning of northern limit of penumbra	18 59.1	E 99 14.9	N67 58.4
Central eclipse at local apparent noon	19 30.3	W111 10.8	N42 35.4
End of northern limit of penumbra	20 26.0	W 14 38.9	N43 07.6
End of northern limit of umbra	21 23.5	W 48 14.2	N 3 21.3
End of centre line; central eclipse ends	21 23.7	W 48 20.0	N 3 12.0
End of southern limit of umbra	21 23.8	W 48 25.8	N 3 02.7
End of southern limit of penumbra	21 38.8	W 63 49.7	S 26 04.5
⊙ Eclipse ends; last contact with Earth	22 25.2	W 66 22.2	S 3 53.9