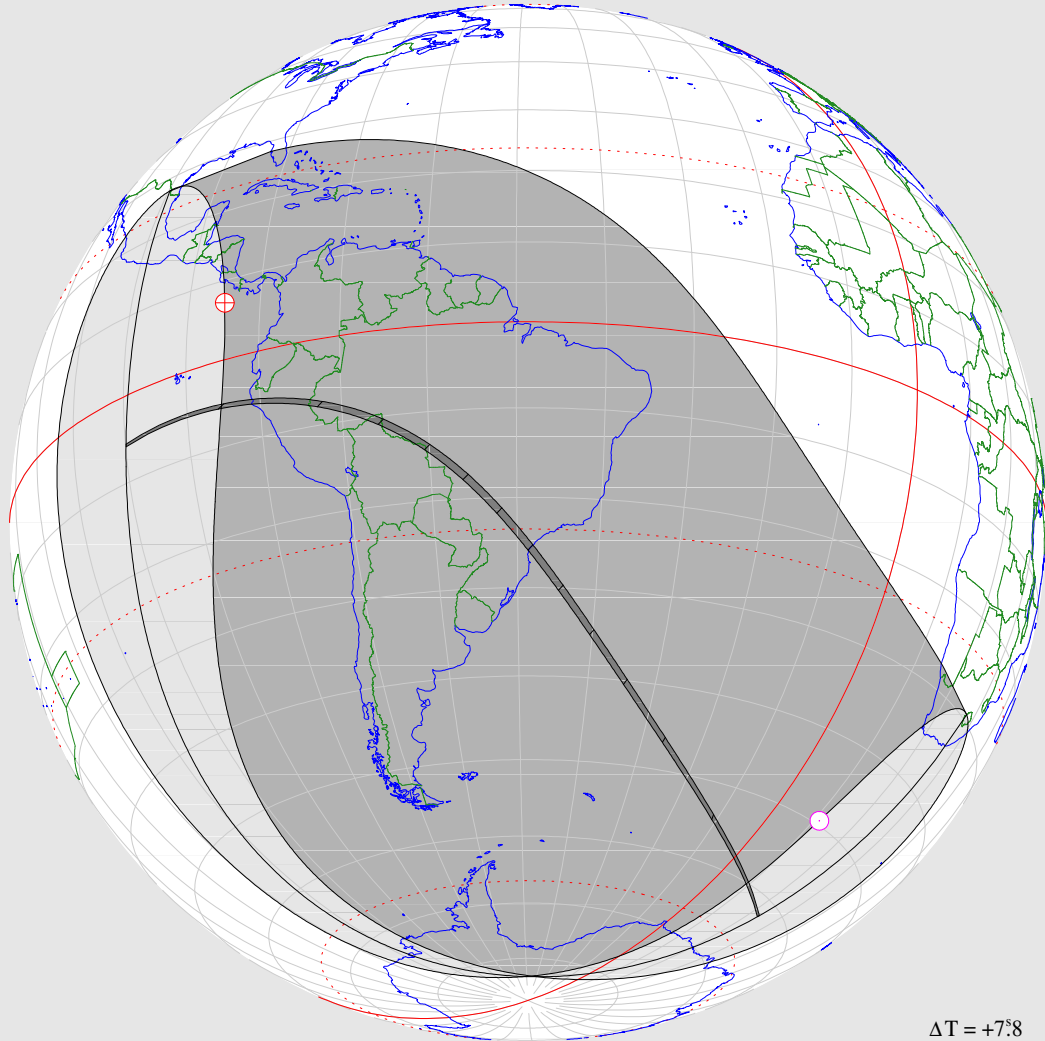


IV. - Total Eclipse of the Sun

1858 September 07



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$\Delta T = +7^s.8$
Globe centred on W 48°7' and S 22°8'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	11	34.2	W 84	48.4	N 7	04.2
Beginning of northern limit of penumbra	12	24.4	W 99	46.2	N 27	21.3
Beginning of northern limit of umbra	12	39.9	W 99	53.1	S 5	36.4
Beginning of centre line; central eclipse begins	12	40.0	W 99	54.3	S 5	45.6
Beginning of southern limit of umbra	12	40.2	W 99	55.7	S 5	54.8
Central eclipse at local apparent noon	14	42.0	W 41	01.7	S 33	47.0
End of southern limit of umbra	15	38.2	E 23	19.1	S 62	16.1
End of centre line; central eclipse ends	15	38.3	E 23	20.9	S 62	08.5
End of northern limit of umbra	15	38.4	E 23	22.7	S 62	01.0
End of northern limit of penumbra	15	54.3	E 27	28.9	S 29	20.1
⊙ Eclipse ends; last contact with Earth	16	44.4	E 11	16.2	S 49	30.7