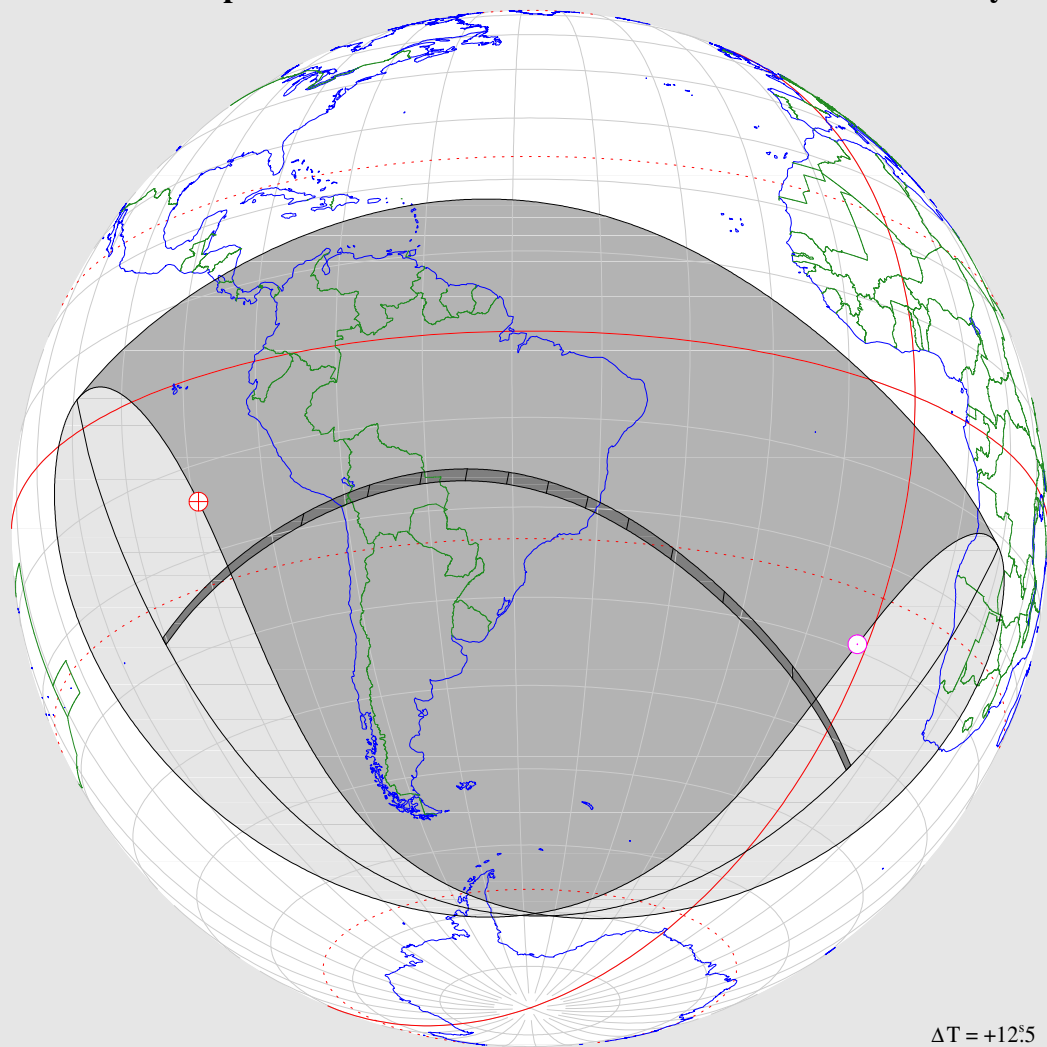


### III. - Total Eclipse of the Sun

1813 July 27



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$\Delta T = +12^s.5$   
Globe centred on W 48°0 and S 22°4

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	12 23.4	W 89 15.9	S 14 08.1
Beginning of northern limit of penumbra	13 17.3	W109 12.1	N 4 01.9
Beginning of northern limit of umbra	13 29.4	W100 37.0	S 26 53.4
Beginning of centre line; central eclipse begins	13 29.8	W100 32.4	S 27 16.2
Beginning of southern limit of umbra	13 30.2	W100 27.8	S 27 39.2
Central eclipse at local apparent noon	15 04.5	W 44 35.9	S 18 13.6
End of southern limit of umbra	16 20.5	E 7 47.3	S 42 26.8
End of centre line; central eclipse ends	16 20.8	E 7 55.9	S 42 05.8
End of northern limit of umbra	16 21.2	E 8 04.4	S 41 45.0
End of northern limit of penumbra	16 33.5	E 19 09.9	S 11 15.9
⊙ Eclipse ends; last contact with Earth	17 27.4	W 1 36.0	S 29 17.1