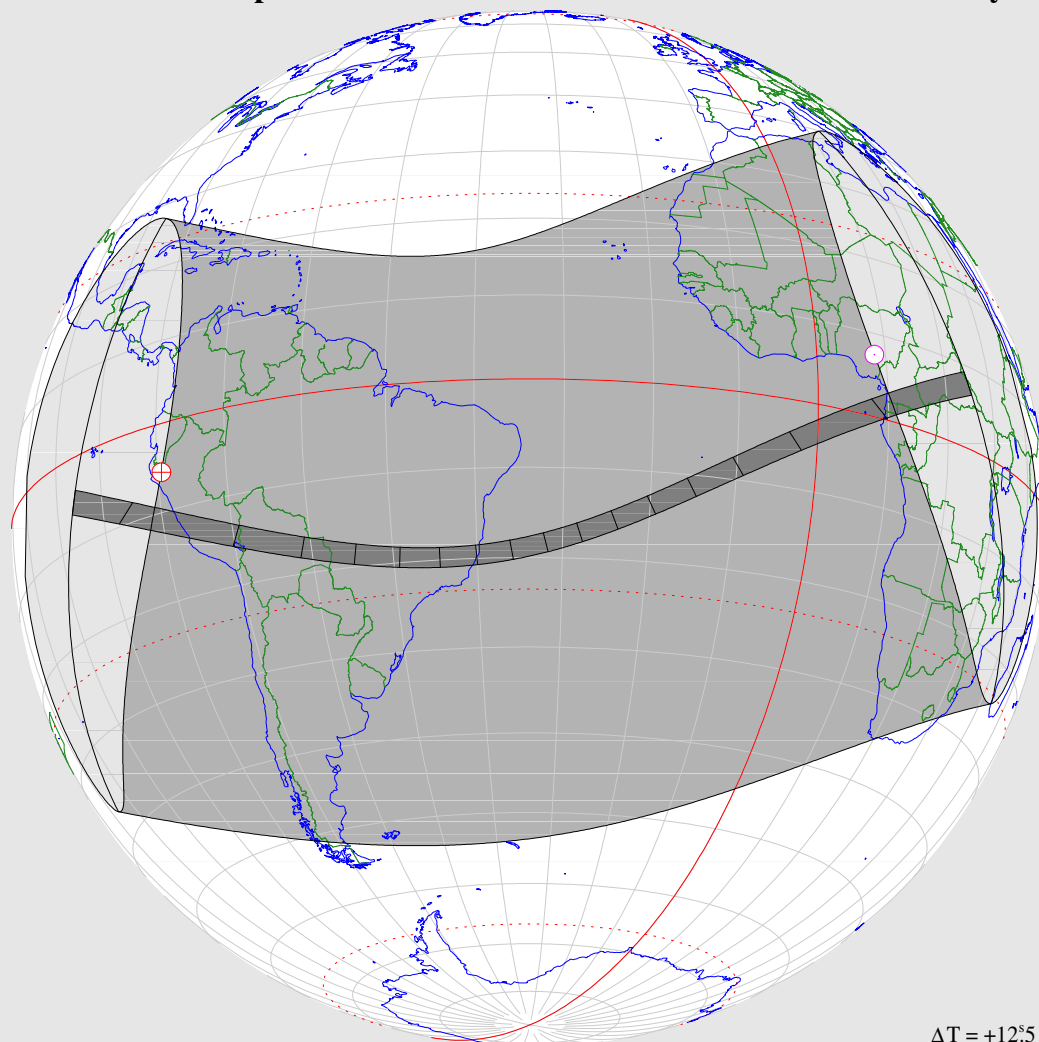


II. - Annular Eclipse of the Sun

1814 January 21



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$\Delta T = +12^s 5$
Globe centred on W 33°8 and S 16°8

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	11 21.1	W 79 24.0	S 5 32.6
Beginning of northern limit of umbra	12 27.4	W 95 19.3	S 3 48.2
Beginning of centre line; central eclipse begins	12 27.8	W 95 52.7	S 5 03.8
Beginning of southern limit of umbra	12 28.2	W 96 26.9	S 6 19.3
Beginning of northern limit of penumbra	12 39.7	W 86 07.2	N 27 28.6
Beginning of southern limit of penumbra	12 55.1	W 116 42.0	S 36 53.7
Central eclipse at local apparent noon	14 24.9	W 33 18.8	S 18 36.8
End of southern limit of penumbra	15 54.1	E 43 49.5	S 24 18.2
End of northern limit of penumbra	16 09.2	E 12 54.5	N 39 57.9
End of southern limit of umbra	16 20.9	E 25 17.1	N 6 36.5
End of centre line; central eclipse ends	16 21.3	E 24 43.3	N 7 51.0
End of northern limit of umbra	16 21.7	E 24 10.1	N 9 05.4
⊙ Eclipse ends; last contact with Earth	17 27.9	E 8 15.8	N 7 22.2