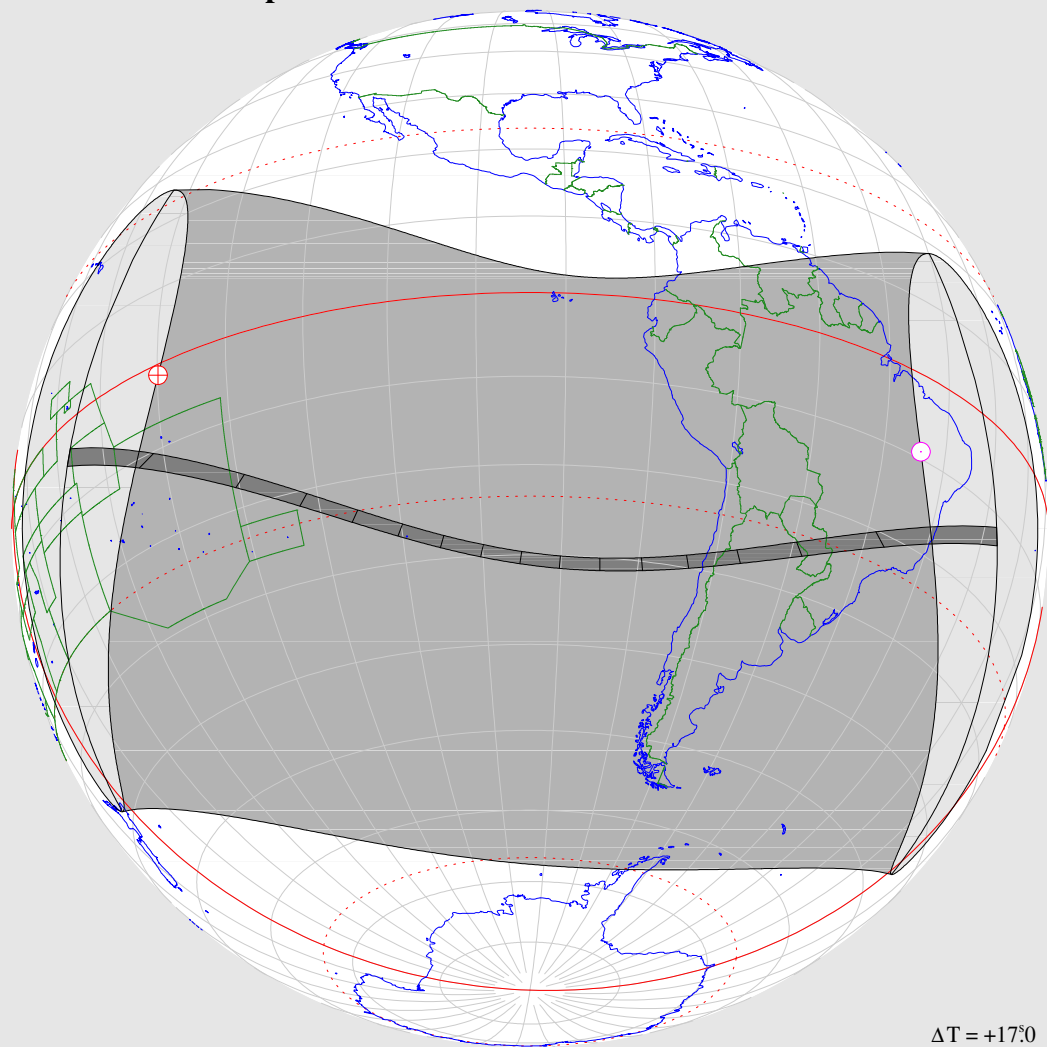


IV. - Annular Eclipse of the Sun

1788 November 27



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$\Delta T = +17^{\circ}0$
Globe centred on W 94°0 and S 27°1

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	15 05.7	W139 52.1	S 1 20.8
Beginning of northern limit of penumbra	16 07.0	W143 44.4	N25 50.3
Beginning of northern limit of umbra	16 09.6	W156 41.3	S 3 30.2
Beginning of centre line; central eclipse begins	16 10.2	W157 10.6	S 4 22.1
Beginning of southern limit of umbra	16 10.8	W157 40.3	S 5 14.2
Beginning of southern limit of penumbra	16 50.2	E 176 38.0	S 38 09.9
Central eclipse at local apparent noon	18 03.9	W 93 53.0	S 30 27.2
End of southern limit of penumbra	19 14.9	E 1 49.6	S 45 29.2
End of southern limit of umbra	19 54.4	W 26 17.1	S 13 04.3
End of centre line; central eclipse ends	19 55.0	W 26 48.5	S 12 11.0
End of northern limit of umbra	19 55.6	W 27 19.4	S 11 17.9
End of northern limit of penumbra	19 58.3	W 39 51.6	N18 07.9
⊙ Eclipse ends; last contact with Earth	20 59.6	W 44 10.9	S 9 10.0