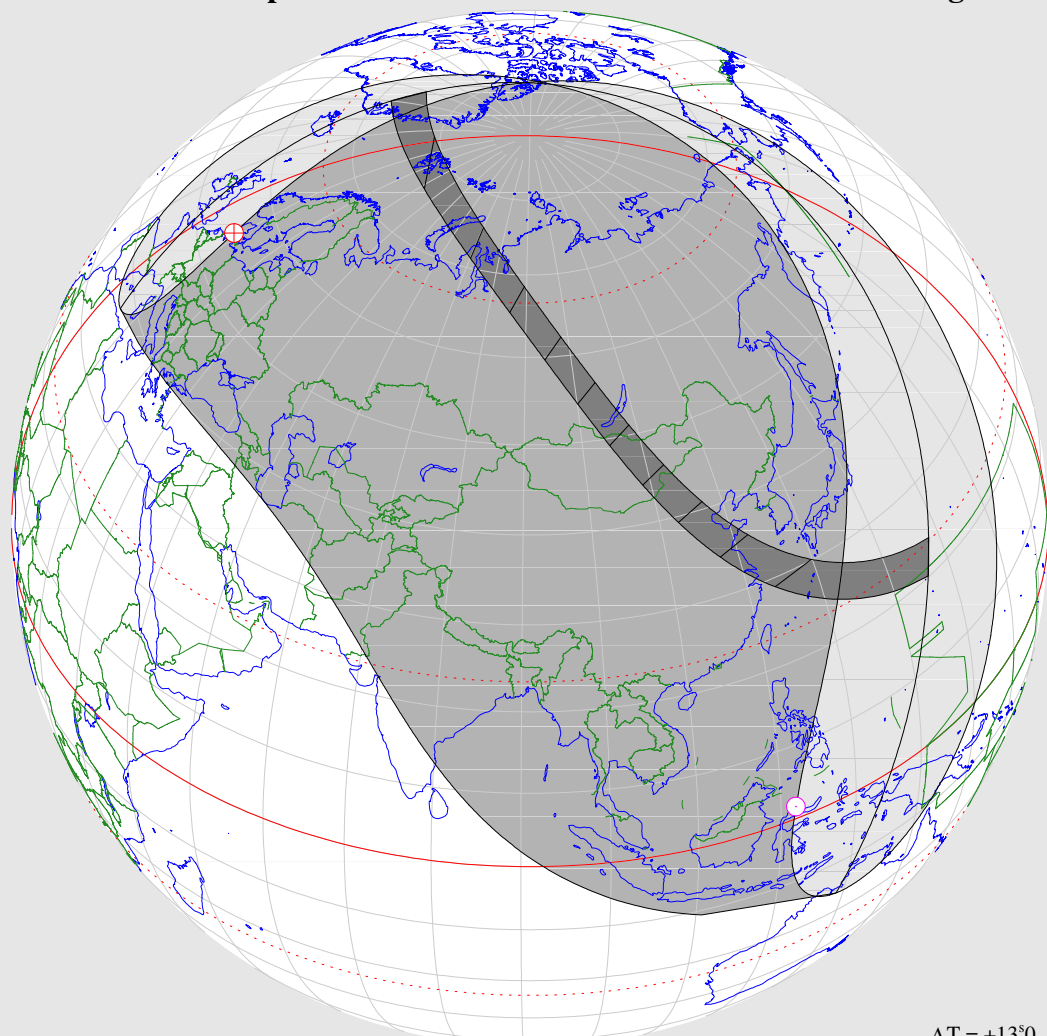


III. - Annular Eclipse of the Sun

1802 August 28



$\Delta T = +13^{\circ}0$

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Globe centred on E 91°0 and N 40°7

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	4 28.9	E 8 33.6	N 54 50.4
Beginning of southern limit of penumbra	5 09.3	E 5 10.7	N 37 35.0
Beginning of southern limit of umbra	5 51.7	W 29 59.2	N 71 46.9
Beginning of centre line; central eclipse begins	5 54.7	W 34 16.0	N 73 16.5
Beginning of northern limit of umbra	5 57.8	W 39 25.5	N 74 45.0
Central eclipse at local apparent noon	6 25.8	E 83 50.7	N 68 34.6
End of northern limit of umbra	8 26.2	E 148 11.6	N 23 47.7
End of centre line; central eclipse ends	8 29.3	E 147 00.7	N 21 55.0
End of southern limit of umbra	8 32.3	E 145 54.0	N 20 06.5
End of southern limit of penumbra	9 14.3	E 128 50.8	S 15 53.9
⊙ Eclipse ends; last contact with Earth	9 54.9	E 121 52.6	N 1 45.7