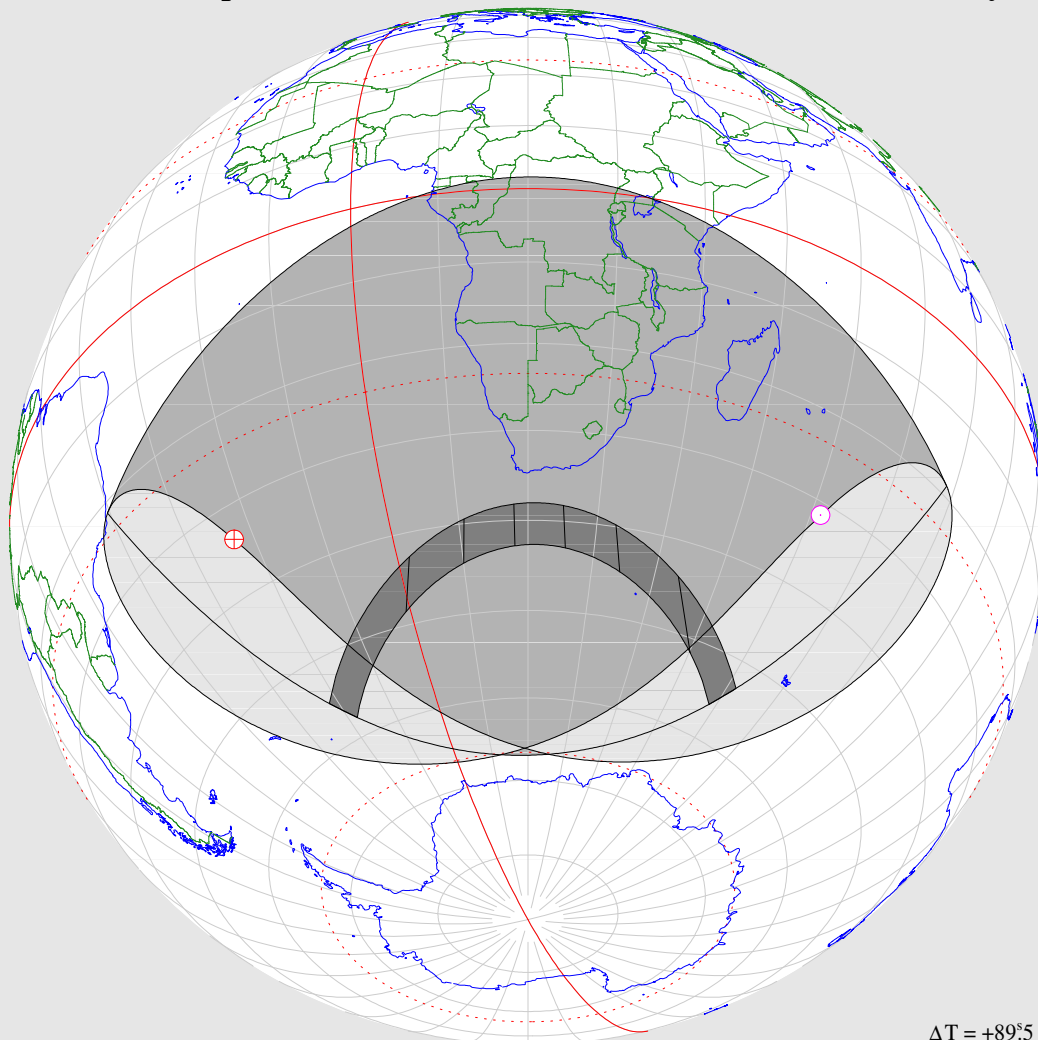


III. - Total Eclipse of the Sun

1628 July 01



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$\Delta T = +89^s.5$
Globe centred on E 20°0' and S 40°7'

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	8 41.3	W 22 59.2	S 33 45.3
Beginning of northern limit of penumbra	9 22.9	W 40 26.8	S 21 10.8
Beginning of northern limit of umbra	10 00.2	W 21 49.0	S 54 55.5
Beginning of centre line; central eclipse begins	10 03.1	W 20 08.6	S 56 19.8
Beginning of southern limit of umbra	10 06.4	W 18 10.1	S 57 47.0
Central eclipse at local apparent noon	10 47.0	E 19 00.3	S 40 21.1
End of southern limit of umbra	11 31.9	E 58 36.3	S 55 56.5
End of centre line; central eclipse ends	11 35.2	E 60 19.0	S 54 25.2
End of northern limit of umbra	11 38.1	E 61 46.0	S 52 57.6
End of northern limit of penumbra	12 15.4	E 78 34.7	S 18 45.7
⊙ Eclipse ends; last contact with Earth	12 57.0	E 61 24.3	S 31 24.6