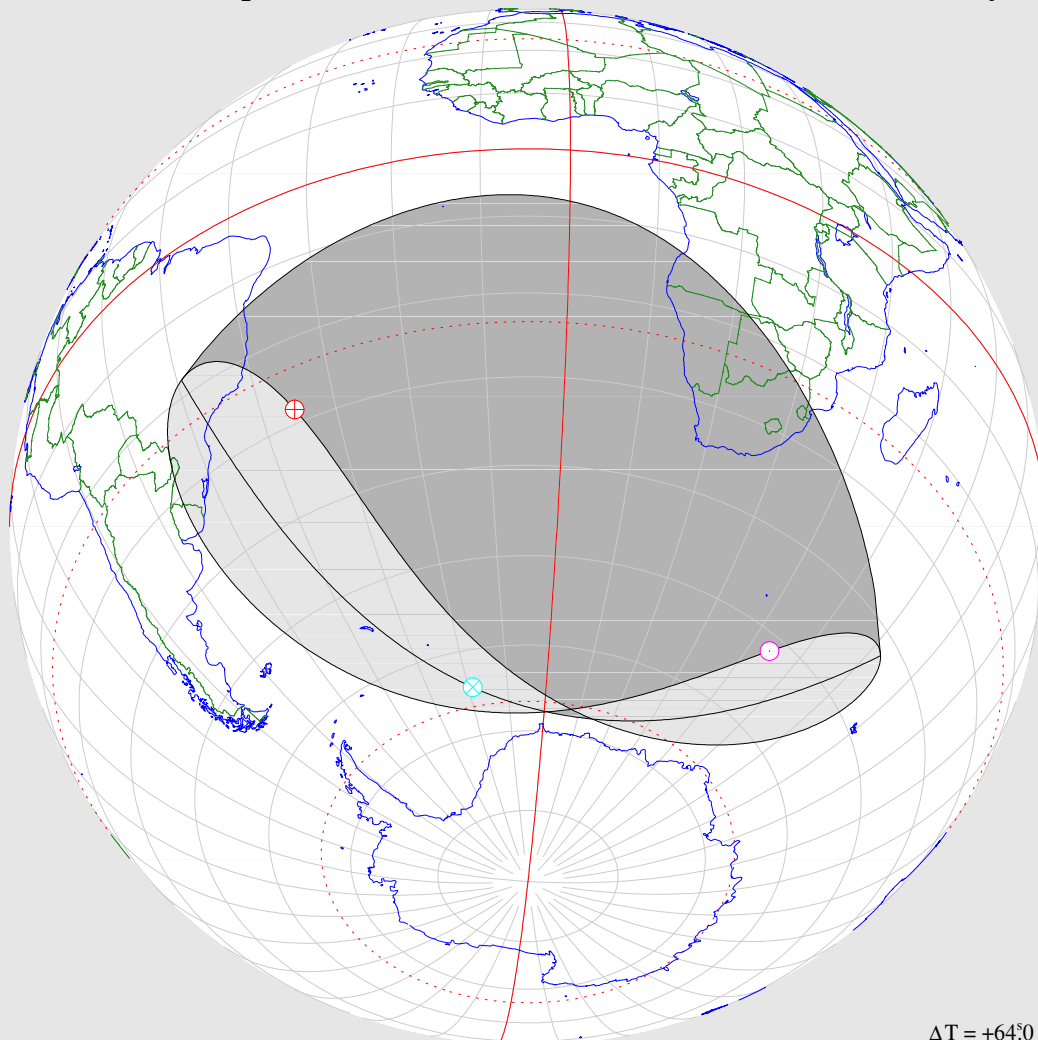


IV. - Partial Eclipse of the Sun

1638 July 11



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$\Delta T = +64^s 0$
Globe centred on W 4:7 and S 46:8

Circumstances	Time (UT)	Longitude	Latitude
	^h ^m	^o /	^o /
⊕ Eclipse begins; first contact with Earth	9 17.3	W 35 27.8	S 28 21.5
Beginning of northern limit of penumbra	9 52.4	W 49 21.4	S 17 57.1
⊗ Greatest eclipse (magnitude = 0.8919)	11 10.8	W 18 55.2	S 64 16.0
End of northern limit of penumbra	12 29.0	E 62 10.9	S 42 17.8
⊙ Eclipse ends; last contact with Earth	13 04.1	E 44 05.7	S 51 44.1