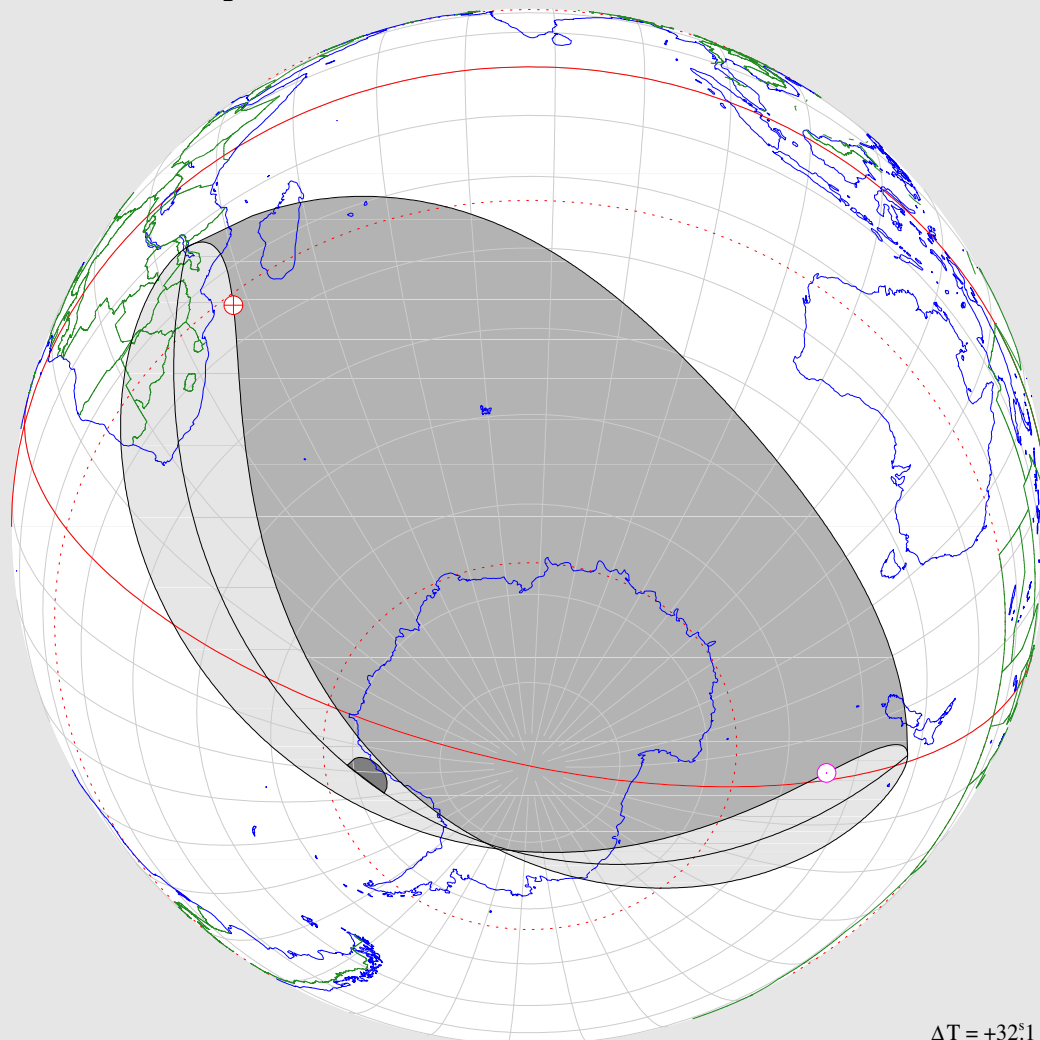


### III. - Total Eclipse of the Sun

1957 October 23



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$\Delta T = +32^s.1$   
Globe centred on E 77°2' and S 62°5'

Circumstances	Time (UT)	Longitude	Latitude
	<sup>h</sup> <sup>m</sup>	<sup>o</sup> /	<sup>o</sup> /
⊕ Eclipse begins; first contact with Earth	2 51.0	E 38 01.4	S 25 03.9
Beginning of northern limit of penumbra	3 16.2	E 34 34.3	S 12 18.2
Beginning of northern limit of umbra	4 49.0	W 18 01.2	S 69 16.2
End of northern limit of umbra	4 57.6	W 29 02.3	S 72 58.4
End of northern limit of penumbra	6 30.6	E 178 48.5	S 41 56.3
○ Eclipse ends; last contact with Earth	6 55.9	E 178 21.2	S 54 20.0