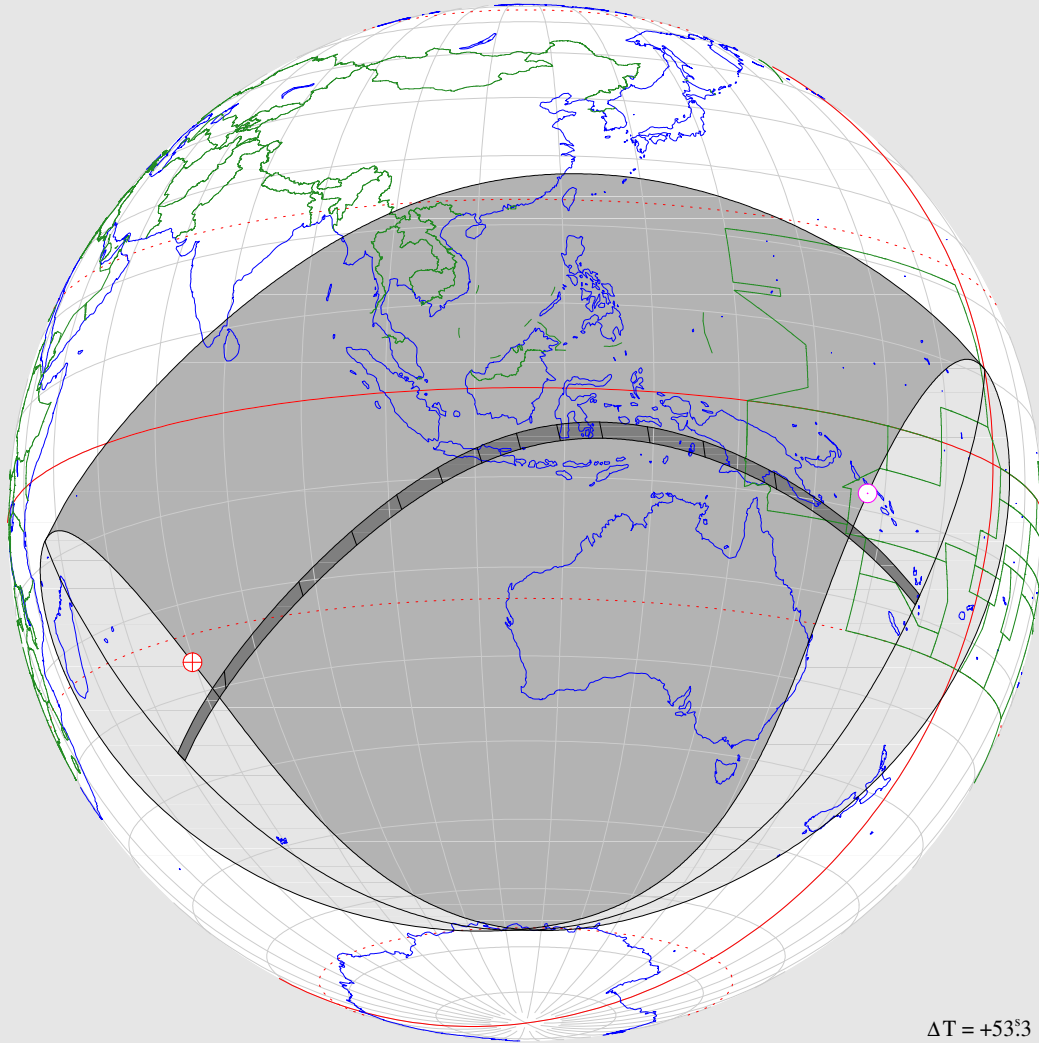


# I. - Total Eclipse of the Sun

1983 June 11



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$\Delta T = +53^s.3$   
Globe centred on E 115°7' and S 15°1'

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	2 09.5	E 69 43.6	S 26 32.0
Beginning of northern limit of penumbra	3 07.3	E 46 16.0	S 7 33.5
Beginning of northern limit of umbra	3 10.9	E 59 54.0	S 35 40.2
Beginning of centre line; central eclipse begins	3 11.3	E 60 10.7	S 36 13.4
Beginning of southern limit of umbra	3 11.7	E 60 27.6	S 36 46.7
Central eclipse at local apparent noon	4 33.4	E 111 30.1	S 7 10.6
End of southern limit of umbra	6 13.7	E 168 09.4	S 18 41.2
End of centre line; central eclipse ends	6 14.1	E 168 20.1	S 18 05.3
End of northern limit of umbra	6 14.5	E 168 30.9	S 17 29.7
End of northern limit of penumbra	6 18.0	W 179 53.0	N 11 03.1
⊙ Eclipse ends; last contact with Earth	7 15.8	E 157 26.3	S 8 05.7