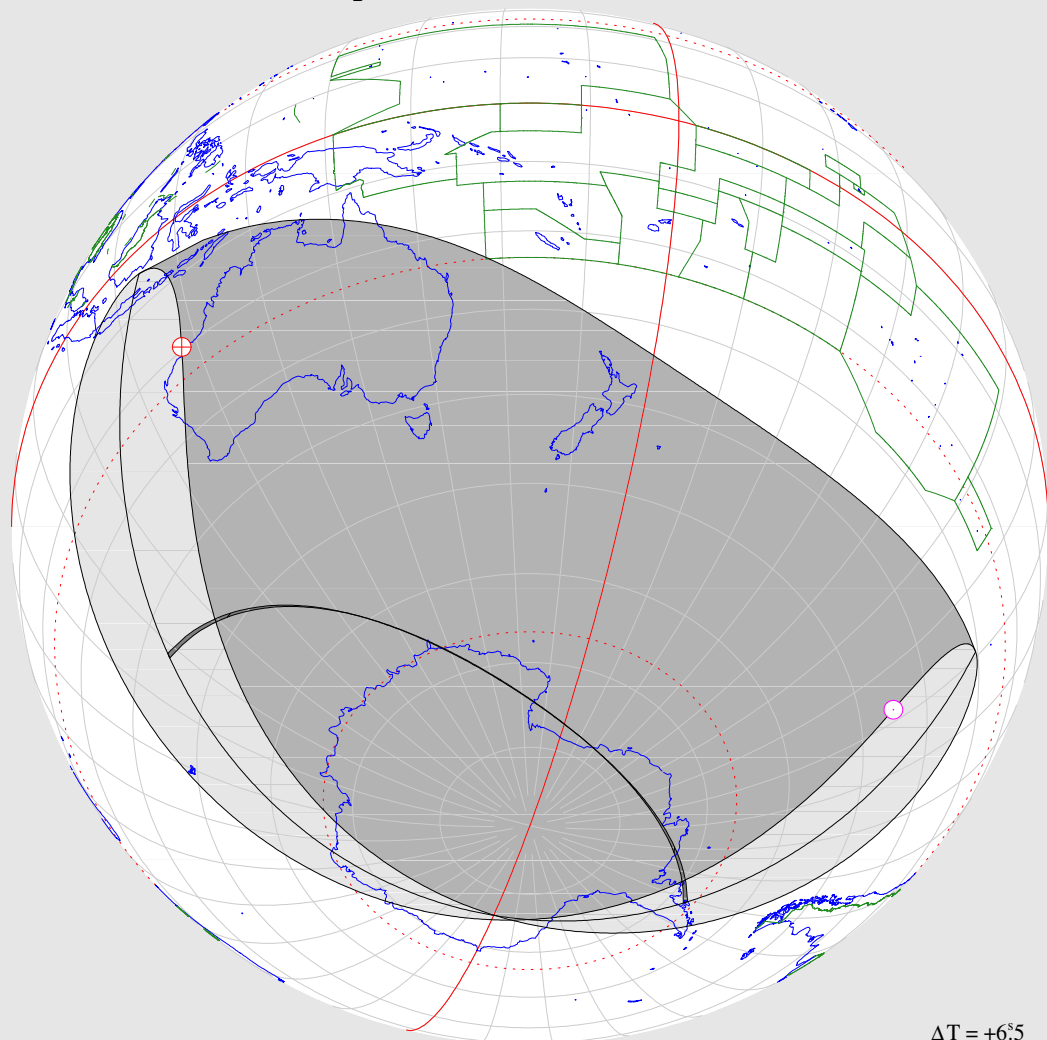


III. - Annular-Total Eclipse of the Sun

1845 October 30-31



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$\Delta T = +6^s.5$
Globe centred on E 163°3 and S 54°8

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	21 32.2	E 117 49.3	S 19 34.4
Beginning of northern limit of penumbra	22 02.7	E 114 09.9	S 4 28.2
Beginning of northern limit of umbra	22 55.5	E 88 18.8	S 43 39.5
Beginning of centre line; central eclipse begins	22 55.9	E 88 06.2	S 43 53.1
Beginning of southern limit of umbra	22 56.3	E 87 53.4	S 44 06.7
Central eclipse at local apparent noon	0 13.7	E 172 30.3	S 75 47.0
End of southern limit of umbra	0 47.2	W 68 12.2	S 67 46.2
End of centre line; central eclipse ends	0 47.5	W 68 39.5	S 67 36.1
End of northern limit of umbra	0 47.9	W 69 06.4	S 67 26.1
End of northern limit of penumbra	1 40.9	W 110 49.9	S 30 27.0
⊙ Eclipse ends; last contact with Earth	2 11.2	W 112 17.0	S 45 12.8