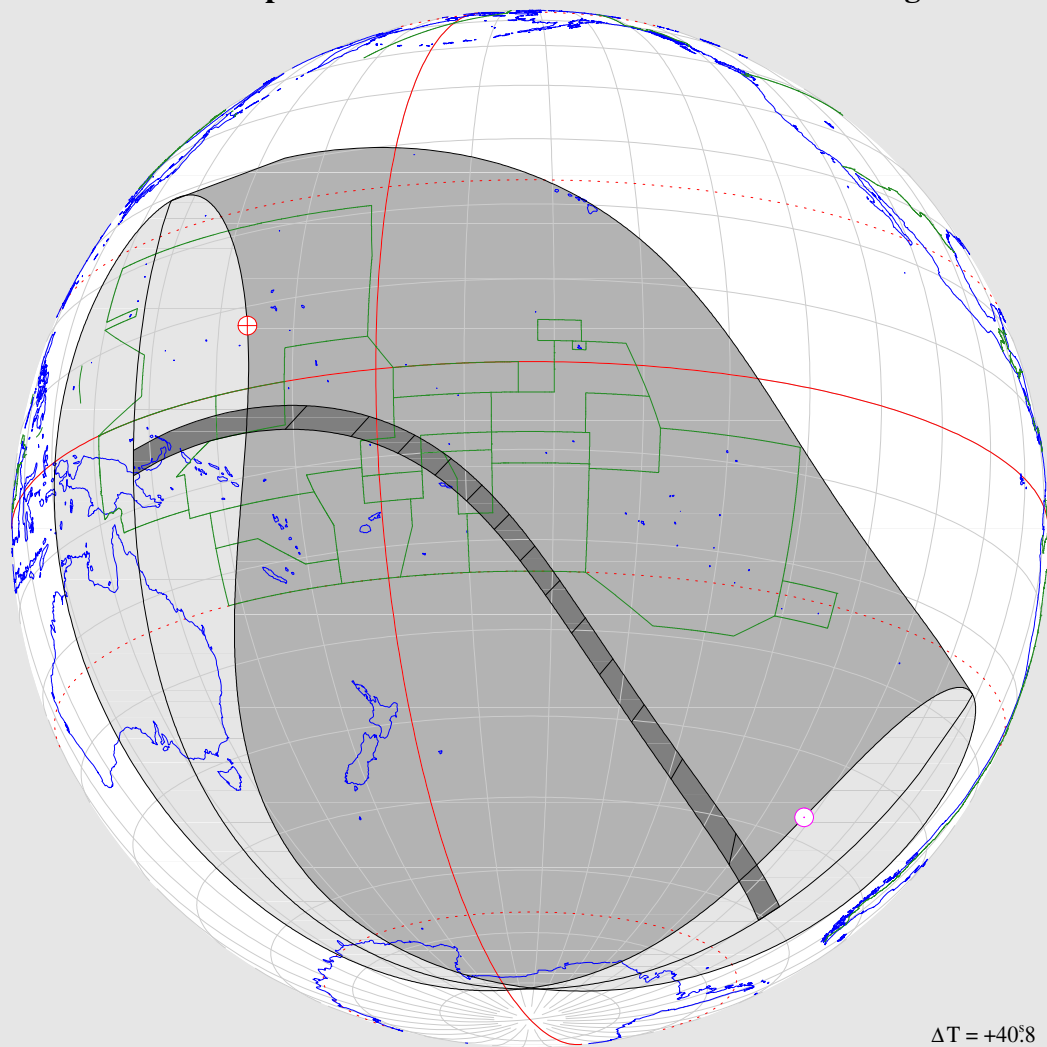


IV. - Annular Eclipse of the Sun

1970 August 31-01



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ΔT = +40:8
Globe centred on W 162°7 and S 18°8

Circumstances	Time (UT)		Longitude	Latitude
	h	m	° /	° /
⊕ Eclipse begins; first contact with Earth	18	59.9	E 163 56.3	N 7 35.3
Beginning of northern limit of penumbra	20	01.3	E 144 55.8	N 29 08.1
Beginning of northern limit of umbra	20	13.2	E 147 16.2	S 3 22.0
Beginning of centre line; central eclipse begins	20	14.6	E 147 08.3	S 4 46.7
Beginning of southern limit of umbra	20	16.1	E 146 59.5	S 6 12.8
Central eclipse at local apparent noon	22	28.2	W 156 58.8	S 28 55.8
End of southern limit of umbra	23	33.2	W 98 40.9	S 60 37.8
End of centre line; central eclipse ends	23	34.6	W 98 11.9	S 59 15.3
End of northern limit of umbra	23	36.0	W 97 46.3	S 57 53.7
End of northern limit of penumbra	23	48.4	W 91 11.5	S 25 48.0
⊙ Eclipse ends; last contact with Earth	0	49.4	W 111 35.8	S 47 11.3