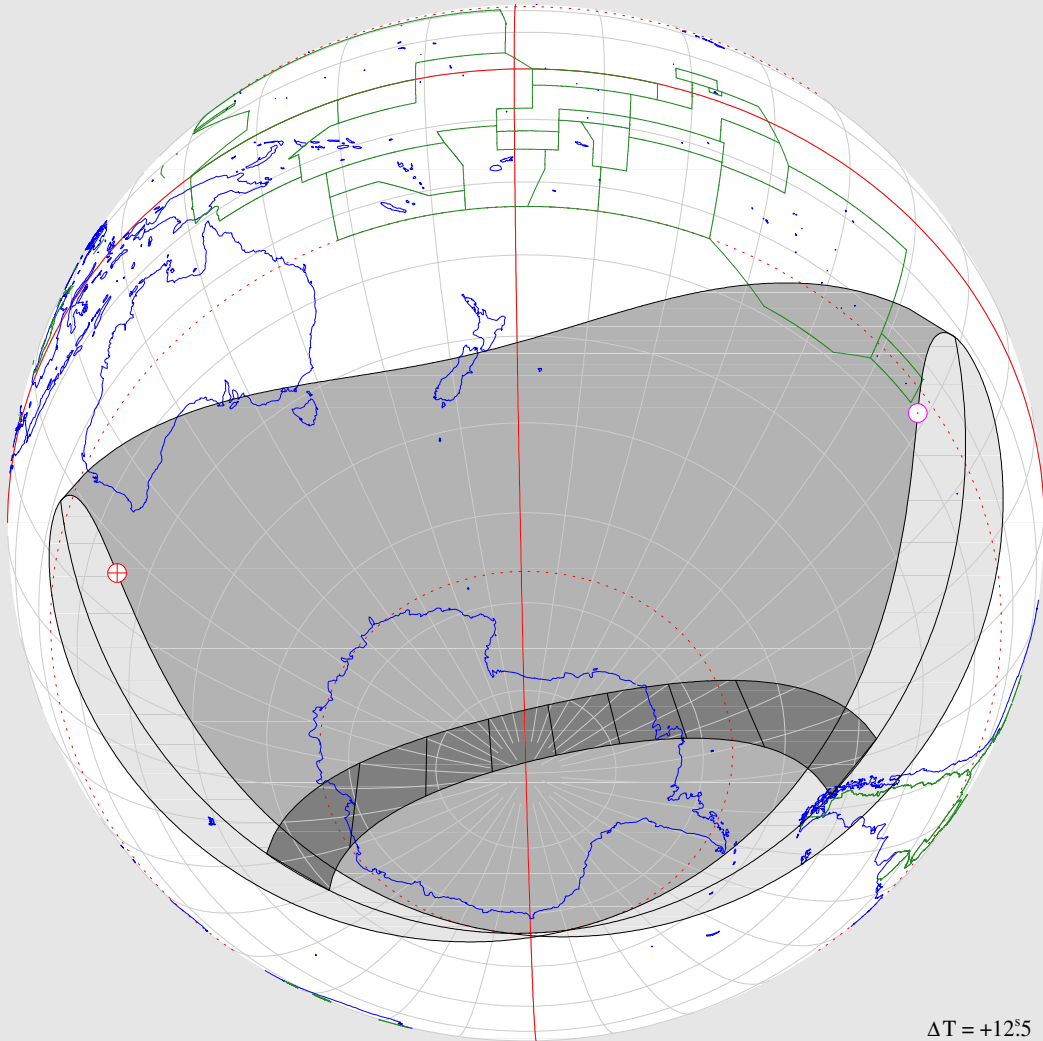


VII. - Annular Eclipse of the Sun

1805 December 20-21



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$\Delta T = +12^s.5$
Globe centred on W 178°7' and S 61°1'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	21	42.1	E 106	05.3	S 35	19.8
Beginning of northern limit of penumbra	22	12.0	E 106	46.3	S 21	19.3
Beginning of northern limit of umbra	23	14.5	E 62	23.4	S 55	07.6
Beginning of centre line; central eclipse begins	23	20.5	E 56	48.5	S 57	20.1
Beginning of southern limit of umbra	23	27.3	E 49	57.4	S 59	37.2
Central eclipse at local apparent noon	0	08.0	E 177	32.1	S 85	20.2
End of southern limit of umbra	1	07.6	W 73	01.6	S 52	25.7
End of centre line; central eclipse ends	1	14.4	W 78	18.2	S 49	41.2
End of northern limit of umbra	1	20.4	W 82	40.7	S 47	08.7
End of northern limit of penumbra	2	22.9	W 120	57.1	S 11	51.3
⊙ Eclipse ends; last contact with Earth	2	52.8	W 121	22.3	S 26	07.7