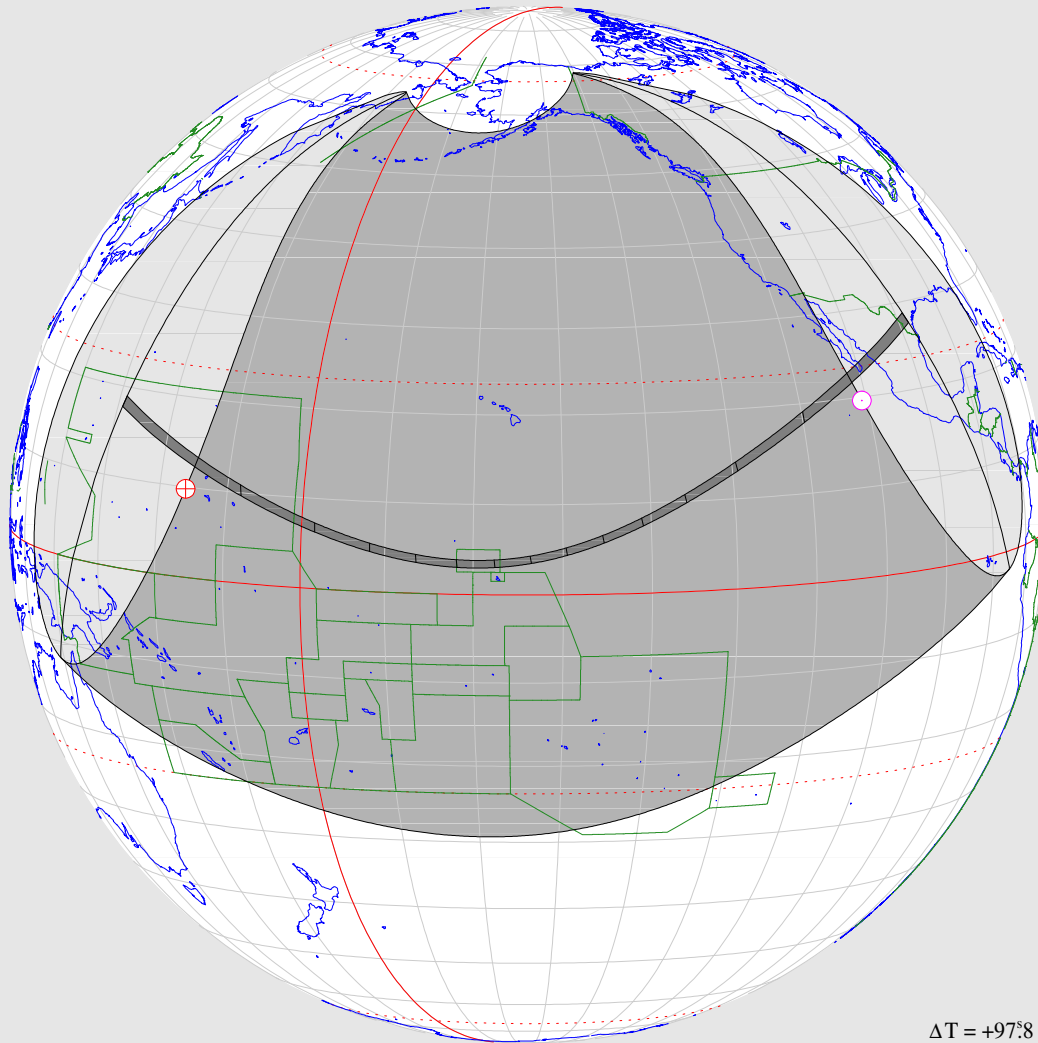


I. - Annular Eclipse of the Sun

2056 January 16-17



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$\Delta T = +97^s.8$
Globe centred on W 153°9' and N 7°8'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	19	28.7	E 164	01.2	N 9	47.0
Beginning of southern limit of umbra	20	34.1	E 150	55.1	N 17	44.9
Beginning of centre line; central eclipse begins	20	34.4	E 151	05.6	N 18	21.6
Beginning of northern limit of umbra	20	34.8	E 151	16.2	N 18	58.4
Beginning of southern limit of penumbra	20	35.2	E 139	01.5	S 11	54.9
Beginning of northern limit of penumbra	21	50.0	E 174	29.0	N 63	24.8
Central eclipse at local apparent noon	22	19.4	W 152	25.1	N 4	07.3
End of northern limit of penumbra	22	40.0	W 140	17.6	N 68	15.8
End of southern limit of penumbra	23	55.1	W 85	33.3	S 2	03.4
End of northern limit of umbra	23	55.4	W 98	27.8	N 28	44.7
End of centre line; central eclipse ends	23	55.8	W 98	14.3	N 28	06.9
End of southern limit of umbra	23	56.1	W 98	00.9	N 27	29.3
⊙ Eclipse ends; last contact with Earth	1	01.6	W 110	45.1	N 19	37.4