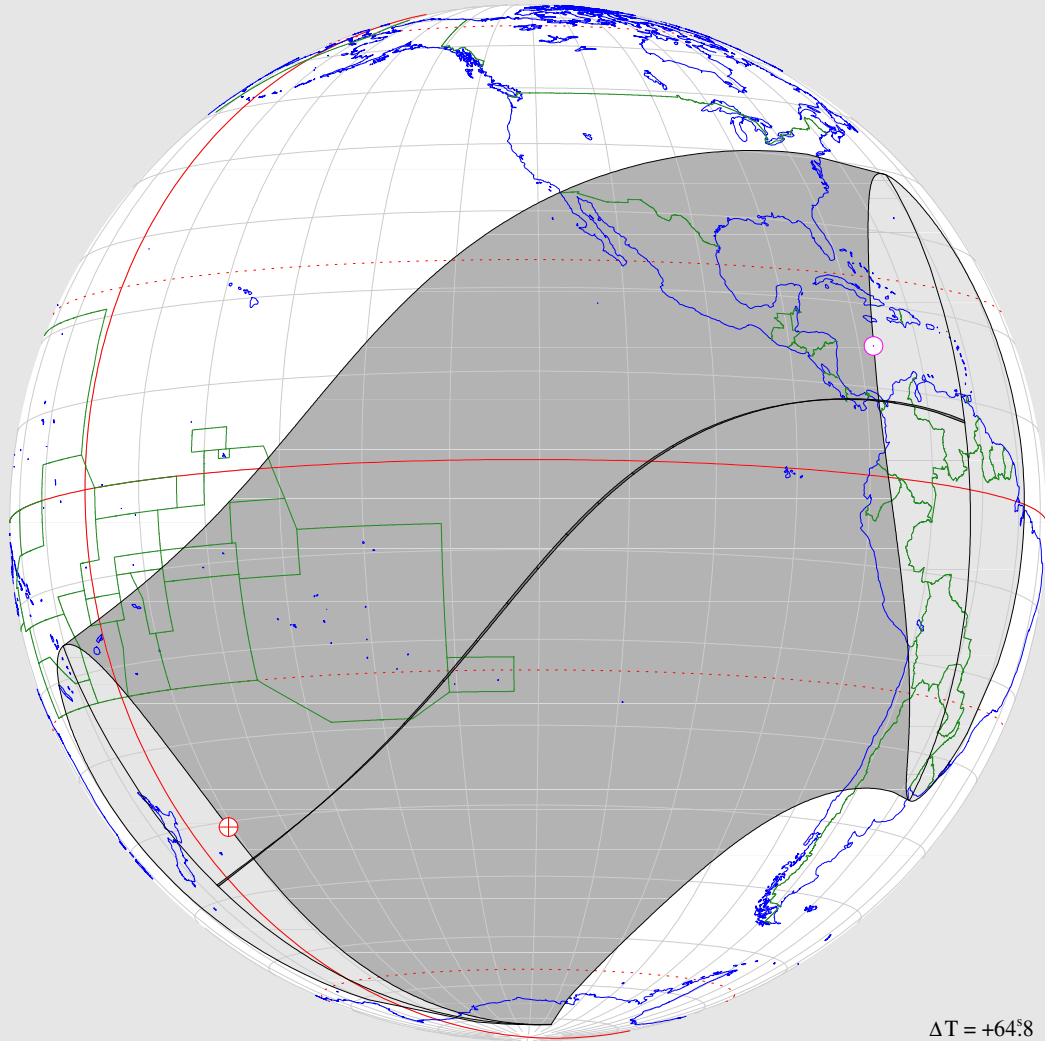


I. - Annular-Total Eclipse of the Sun

2005 April 08



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$\Delta T = +64^s 8$
Globe centred on W 121°3 and S 7°0

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	17 51.3	W170 56.1	S 40 41.5
Beginning of northern limit of penumbra	18 52.3	E 169 33.2	S 16 21.8
Beginning of northern limit of umbra	18 53.6	E 175 21.0	S 47 50.4
Beginning of centre line; central eclipse begins	18 53.6	E 175 22.0	S 47 57.2
Beginning of southern limit of umbra	18 53.7	E 175 23.0	S 48 04.1
Beginning of southern limit of penumbra	19 46.3	W101 50.6	S 82 17.7
Central eclipse at local apparent noon	20 15.6	W123 28.9	S 15 47.3
End of southern limit of penumbra	21 25.8	W 56 26.7	S 35 37.8
End of southern limit of umbra	22 18.0	W 63 05.4	N 7 26.7
End of centre line; central eclipse ends	22 18.1	W 63 05.4	N 7 35.1
End of northern limit of umbra	22 18.1	W 63 05.5	N 7 43.4
End of northern limit of penumbra	22 19.0	W 58 08.8	N 39 17.0
⊙ Eclipse ends; last contact with Earth	23 20.4	W 77 40.6	N 14 55.5