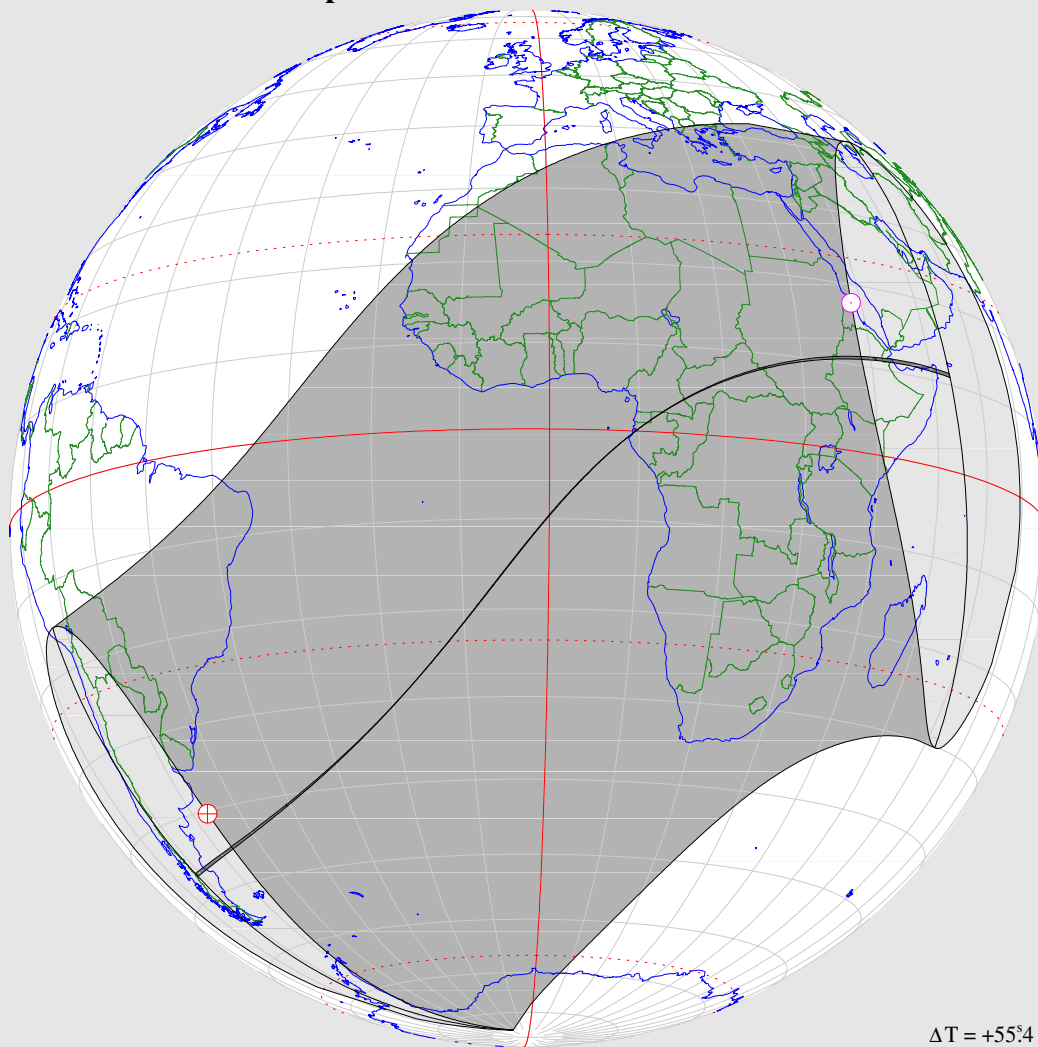


I. - Annular-Total Eclipse of the Sun

1987 March 29



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$\Delta T = +55^s.4$
Globe centred on W 2°4' and S 11°1'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	10	02.6	W 56	37.7	S 40	22.7
Beginning of northern limit of penumbra	11	04.1	W 73	55.7	S 14	48.5
Beginning of northern limit of umbra	11	04.6	W 71	27.6	S 46	34.9
Beginning of centre line; central eclipse begins	11	04.8	W 71	27.8	S 46	47.9
Beginning of southern limit of umbra	11	04.9	W 71	28.0	S 47	00.9
Beginning of southern limit of penumbra	11	52.0	W 27	43.3	S 86	10.7
Central eclipse at local apparent noon	12	30.4	W 6	21.8	S 17	14.5
End of southern limit of penumbra	13	46.4	E 62	42.7	S 30	08.0
End of southern limit of umbra	14	33.0	E 53	36.6	N 10	55.0
End of centre line; central eclipse ends	14	33.2	E 53	35.5	N 11	09.6
End of northern limit of umbra	14	33.3	E 53	34.5	N 11	24.1
End of northern limit of penumbra	14	33.4	E 55	59.9	N 43	11.3
⊙ Eclipse ends; last contact with Earth	15	35.4	E 38	26.4	N 17	36.5