

II. - Annular Eclipse of the Sun

2071 March 31



©HM Nautical Almanac Office

$\Delta T = +108^s.4$
Globe centred on W 37°9' and S 14°5'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	12	12.5	W 89	27.9	S 31	23.1
Beginning of northern limit of penumbra	13	12.4	W106	32.3	S 7	06.4
Beginning of northern limit of umbra	13	16.5	W104	35.4	S 39	00.9
Beginning of centre line; central eclipse begins	13	16.8	W104	36.4	S 39	25.0
Beginning of southern limit of umbra	13	17.0	W104	37.4	S 39	49.2
Beginning of southern limit of penumbra	14	17.8	W 77	29.8	S 83	58.1
Central eclipse at local apparent noon	14	46.3	W 40	34.0	S 18	50.8
End of southern limit of penumbra	15	41.3	E 30	19.7	S 50	48.5
End of southern limit of umbra	16	41.7	E 20	12.2	S 4	59.3
End of centre line; central eclipse ends	16	41.9	E 20	10.2	S 4	36.7
End of northern limit of umbra	16	42.2	E 20	08.2	S 4	14.0
End of northern limit of penumbra	16	46.0	E 21	48.5	N27	42.5
⊙ Eclipse ends; last contact with Earth	17	46.0	E 4	45.3	N 3	26.4