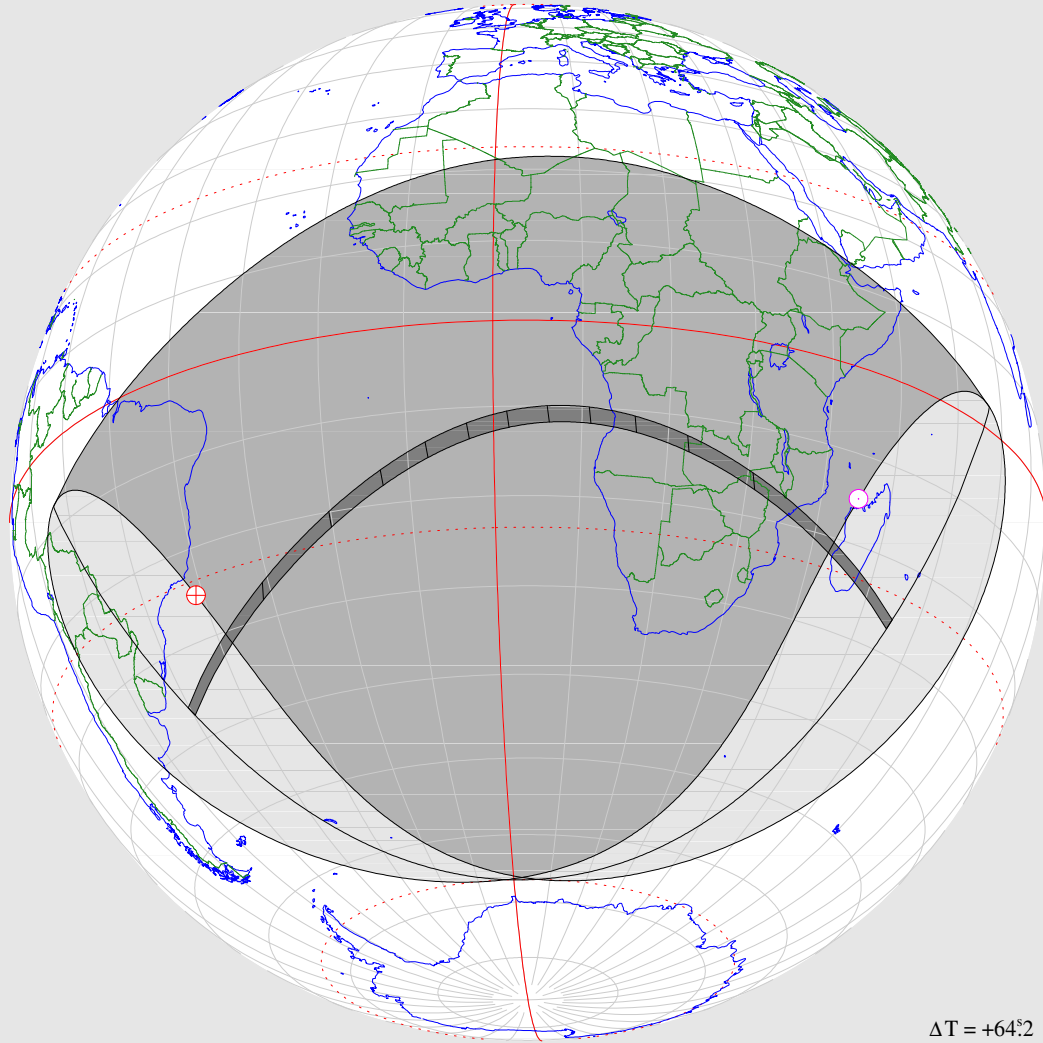


II. - Total Eclipse of the Sun

2001 June 21



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$\Delta T = +64^s.2$
Globe centred on E 3°9' and S 23°0'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	9	33.0	W 41	06.2	S 25	04.8
Beginning of northern limit of penumbra	10	28.4	W 63	26.7	S 7	22.0
Beginning of northern limit of umbra	10	36.6	W 50	17.8	S 36	04.3
Beginning of centre line; central eclipse begins	10	37.1	W 50	01.9	S 36	37.5
Beginning of southern limit of umbra	10	37.6	W 49	45.8	S 37	10.9
Central eclipse at local apparent noon	11	57.8	E 0	59.2	S 11	35.7
End of southern limit of umbra	13	29.8	E 55	01.9	S 27	20.8
End of centre line; central eclipse ends	13	30.4	E 55	13.8	S 26	45.3
End of northern limit of umbra	13	30.9	E 55	25.6	S 26	10.1
End of northern limit of penumbra	13	39.0	E 66	57.0	N 2	53.0
⊙ Eclipse ends; last contact with Earth	14	34.3	E 45	12.2	S 14	57.5