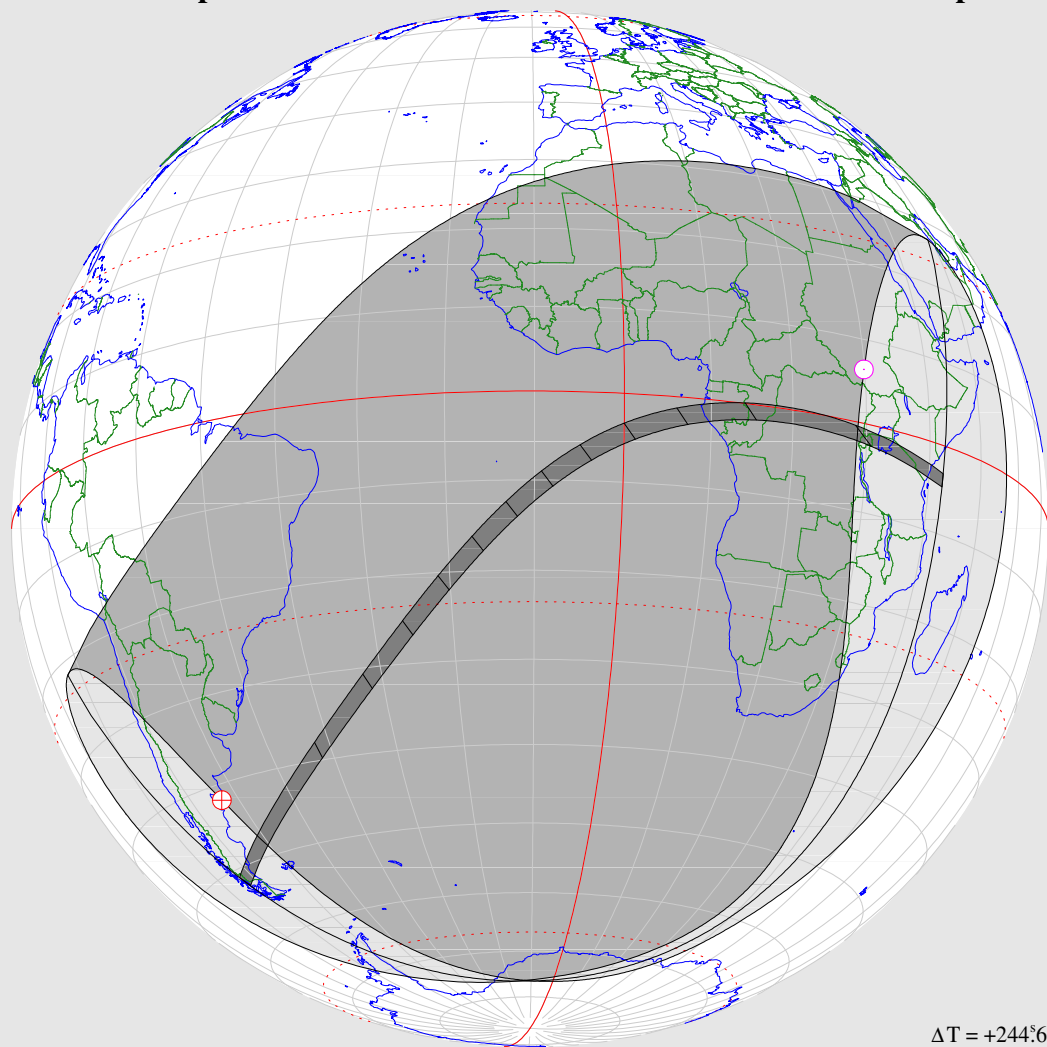


# I. - Total Eclipse of the Sun

1520 April 17



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$\Delta T = +244^s.6$   
Globe centred on W 10°5' and S 15°4'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	11	01.7	W 63	25.5	S 41	50.0
Beginning of northern limit of penumbra	11	54.9	W 83	51.8	S 21	29.5
Beginning of northern limit of umbra	12	01.5	W 73	24.5	S 50	59.8
Beginning of centre line; central eclipse begins	12	02.0	W 73	04.3	S 51	43.0
Beginning of southern limit of umbra	12	02.6	W 72	43.2	S 52	26.4
Central eclipse at local apparent noon	13	09.5	W 18	03.8	S 18	26.6
End of southern limit of umbra	15	03.0	E 42	23.9	S 4	42.1
End of centre line; central eclipse ends	15	03.5	E 42	26.6	S 3	57.0
End of northern limit of umbra	15	04.1	E 42	29.7	S 3	12.1
End of northern limit of penumbra	15	10.4	E 48	52.8	N 26	54.0
⊙ Eclipse ends; last contact with Earth	16	03.8	E 29	54.6	N 6	19.7