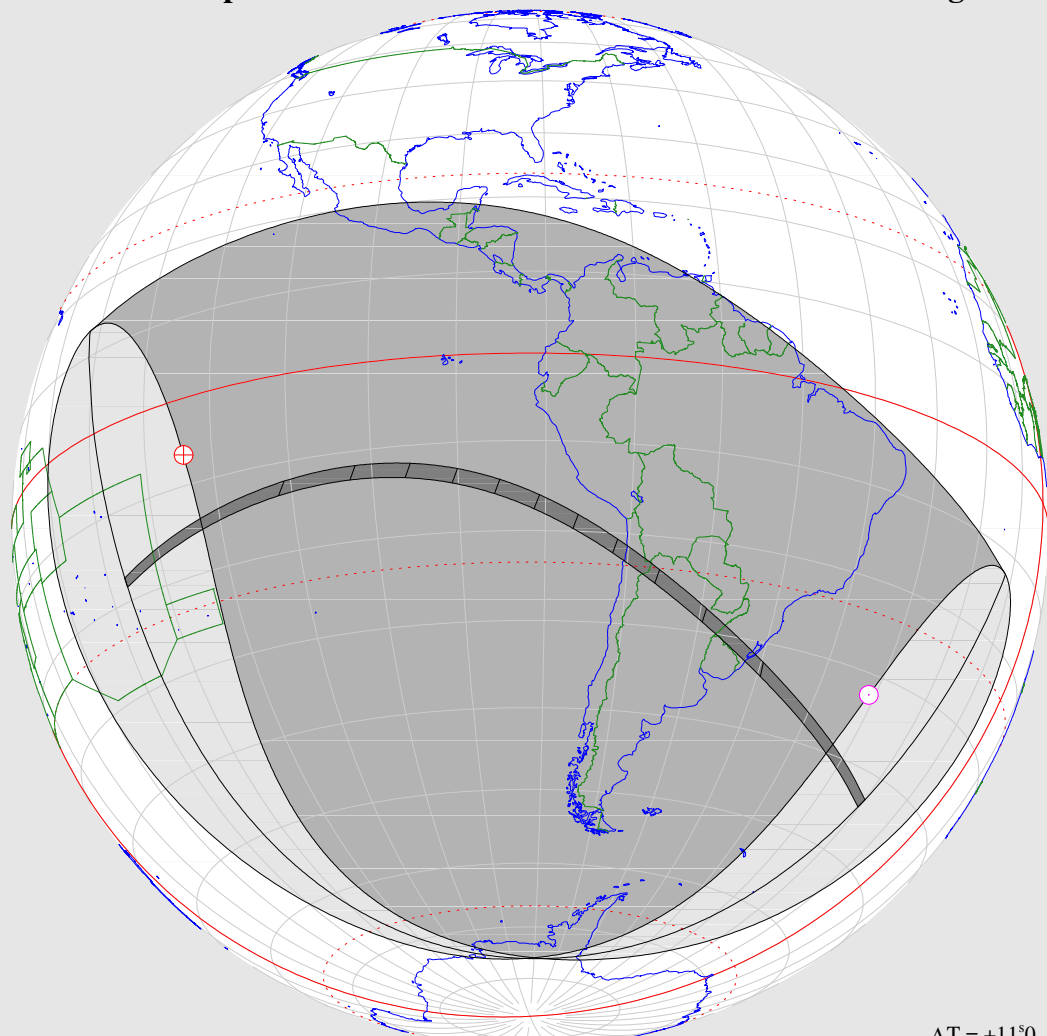


### III. - Total Eclipse of the Sun

1719 August 15



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$\Delta T = +11^{\text{m}}30^{\text{s}}$   
Globe centred on W 81°8' and S 19°8'

Circumstances	Time (UT)		Longitude	Latitude
	h	m	° /	° /
⊕ Eclipse begins; first contact with Earth	14	27.0	W124 04.5	S 6 31.2
Beginning of northern limit of penumbra	15	20.4	W142 32.9	N13 30.1
Beginning of northern limit of umbra	15	29.4	W136 47.4	S 17 21.8
Beginning of centre line; central eclipse begins	15	29.8	W136 45.0	S 17 54.3
Beginning of southern limit of umbra	15	30.3	W136 42.7	S 18 27.1
Central eclipse at local apparent noon	17	12.7	W 77 09.5	S 18 34.5
End of southern limit of umbra	18	28.8	W 20 15.7	S 43 58.3
End of centre line; central eclipse ends	18	29.3	W 20 06.6	S 43 25.4
End of northern limit of umbra	18	29.8	W 19 57.6	S 42 52.7
End of northern limit of penumbra	18	38.9	W 11 53.4	S 12 23.4
⊙ Eclipse ends; last contact with Earth	19	32.1	W 31 09.5	S 32 16.2