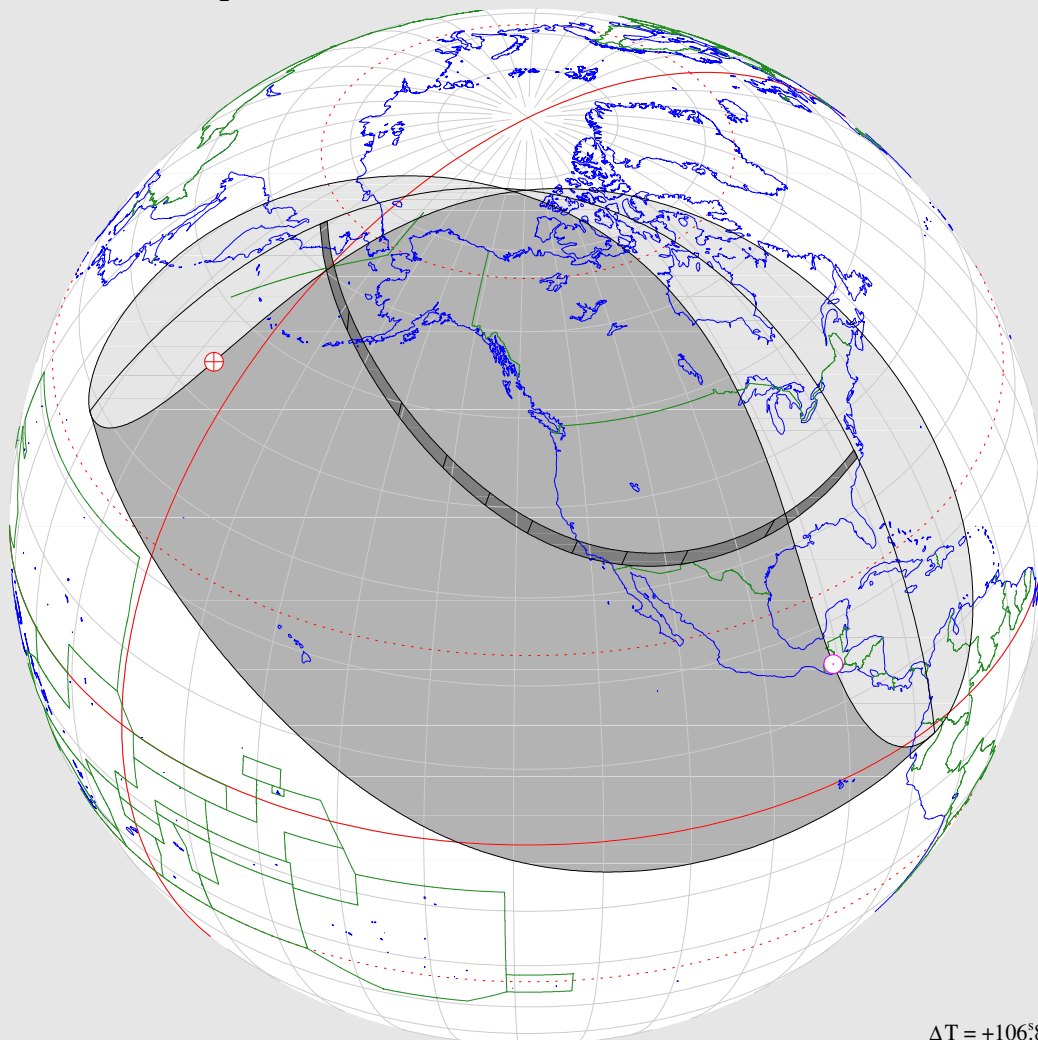


IV. - Total Eclipse of the Sun

1623 October 23



$\Delta T = +106^s.8$

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Globe centred on W 128°4 and N 37°9

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	18	55.7	E 173	42.6	N 44	20.8
Beginning of southern limit of penumbra	19	38.4	E 157	50.4	N 28	18.1
Beginning of southern limit of umbra	20	09.0	E 167	55.6	N 63	23.8
Beginning of centre line; central eclipse begins	20	09.7	E 168	14.4	N 63	48.6
Beginning of northern limit of umbra	20	10.3	E 168	34.0	N 64	13.6
Central eclipse at local apparent noon	20	53.5	W 137	13.7	N 42	19.1
End of northern limit of umbra	22	20.6	W 77	32.0	N 35	51.3
End of centre line; central eclipse ends	22	21.3	W 77	33.1	N 35	23.0
End of southern limit of umbra	22	22.0	W 77	34.2	N 34	55.0
End of southern limit of penumbra	22	52.3	W 76	42.1	S 1	12.8
⊙ Eclipse ends; last contact with Earth	23	35.1	W 90	48.9	N 15	03.3