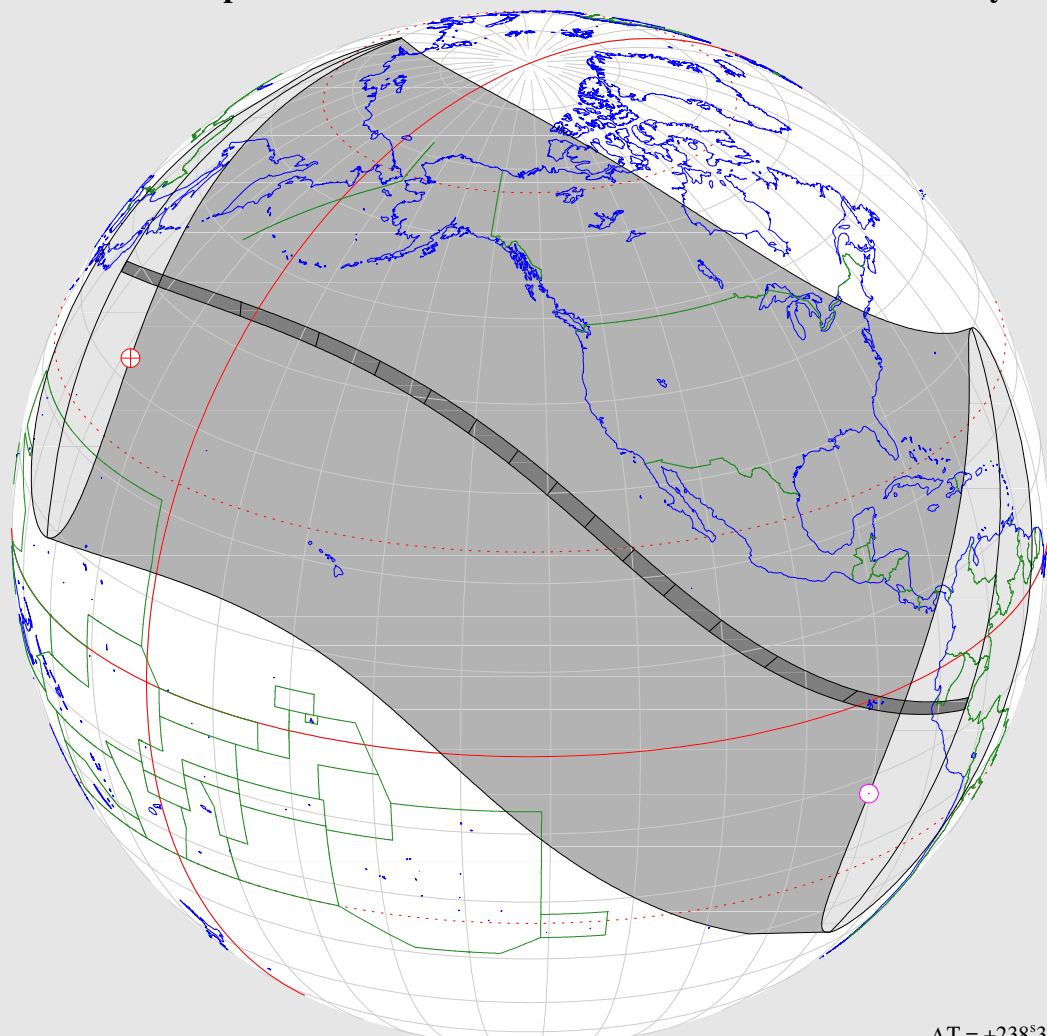


### III. - Total Eclipse of the Sun

1524 July 30



$\Delta T = +238^s.3$

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Globe centred on W 132°3 and N 26°1

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	18	35.7	E 161	49.3	N 32	22.8
Beginning of southern limit of penumbra	19	25.3	E 157	27.4	N 8	19.4
Beginning of southern limit of umbra	19	32.9	E 145	26.6	N 37	14.3
Beginning of centre line; central eclipse begins	19	33.3	E 145	03.5	N 37	49.8
Beginning of northern limit of umbra	19	33.8	E 144	39.7	N 38	25.4
Beginning of northern limit of penumbra	20	17.1	E 94	41.0	N 70	11.3
Central eclipse at local apparent noon	21	01.1	W 134	06.5	N 33	47.6
End of northern limit of penumbra	22	10.6	W 51	59.2	N 30	10.1
End of northern limit of umbra	22	53.6	W 73	59.5	S 6	08.4
End of centre line; central eclipse ends	22	54.1	W 74	17.4	S 6	45.9
End of southern limit of umbra	22	54.5	W 74	34.9	S 7	23.3
End of southern limit of penumbra	23	01.8	W 86	20.1	S 36	18.5
⊙ Eclipse ends; last contact with Earth	23	51.6	W 90	17.4	S 12	19.7