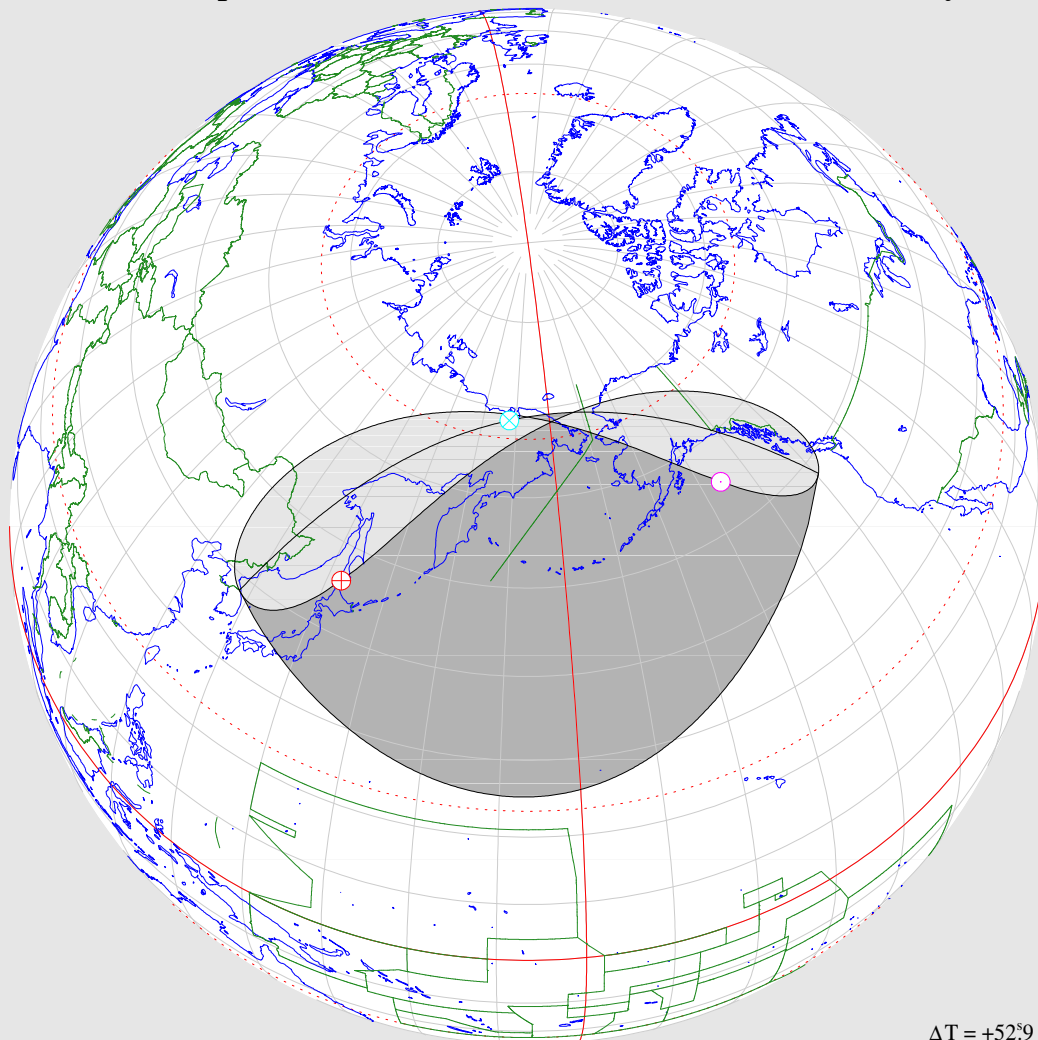


# I. - Partial Eclipse of the Sun

1646 January 16-17



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$\Delta T = +52^s.9$   
Globe centred on E 173°5 and N 56°8

Circumstances	Time (UT)	Longitude	Latitude
	<sup>h</sup> <sup>m</sup>	<sup>o</sup> /	<sup>o</sup> /
⊕ Eclipse begins; first contact with Earth	22 14.1	E 142 17.9	N 45 56.6
Beginning of southern limit of penumbra	22 47.6	E 128 17.0	N 38 19.3
⊗ Greatest eclipse (magnitude = 0.4577)	23 58.4	E 167 52.7	N 68 32.0
End of southern limit of penumbra	1 09.0	W 129 29.8	N 48 03.6
○ Eclipse ends; last contact with Earth	1 42.5	W 145 53.5	N 55 09.3