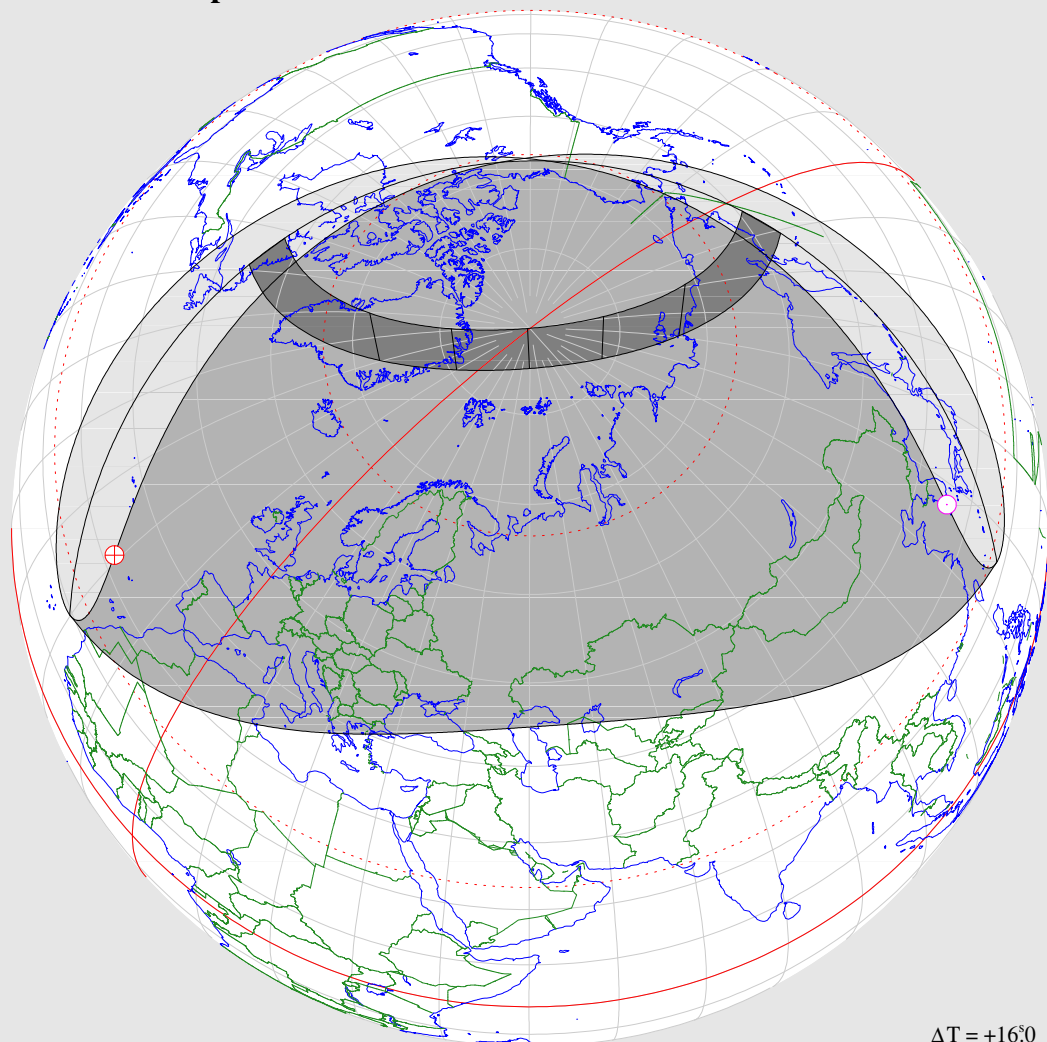


II. - Total Eclipse of the Sun

1769 June 04



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$\Delta T = +16^s$
Globe centred on E 50°1' and N 67°3'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	6	21.3	W 20	51.0	N 31	59.4
Beginning of southern limit of penumbra	6	45.0	W 20	08.4	N 19	20.9
Beginning of southern limit of umbra	7	41.4	W 61	15.6	N 54	25.6
Beginning of centre line; central eclipse begins	7	44.8	W 64	28.7	N 55	55.7
Beginning of northern limit of umbra	7	48.5	W 68	11.0	N 57	29.9
Central eclipse at local apparent noon	8	30.5	E 51	50.7	N 87	35.4
End of northern limit of umbra	9	08.1	E 176	41.0	N 59	18.7
End of centre line; central eclipse ends	9	11.8	E 172	41.3	N 57	49.7
End of southern limit of umbra	9	15.1	E 169	13.6	N 56	23.8
End of southern limit of penumbra	10	11.6	E 126	05.1	N 21	47.2
⊙ Eclipse ends; last contact with Earth	10	35.3	E 127	05.6	N 34	21.6