

IV. - Total Eclipse of the Sun

1799 October 28



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$\Delta T = +13^m 8^s$
Globe centred on W 80°4 and S 6°2

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	14	44.1	W127	27.9	N29	13.6
Beginning of southern limit of umbra	15	39.6	W140	42.7	N31	07.7
Beginning of northern limit of umbra	15	39.6	W140	21.0	N32	15.9
Beginning of centre line; central eclipse begins	15	39.6	W140	31.8	N31	41.8
Beginning of southern limit of penumbra	15	52.4	W151	51.0	N 1	09.9
Beginning of northern limit of penumbra	16	00.2	W125	45.8	N63	30.5
Central eclipse at local apparent noon	17	15.4	W 82	51.8	S 5	15.3
End of northern limit of penumbra	18	43.3	W 18	43.7	N15	54.6
End of southern limit of penumbra	18	50.4	W 1	34.3	S47	36.7
End of northern limit of umbra	19	03.5	W 15	46.4	S 16	52.3
End of southern limit of umbra	19	03.5	W 15	29.1	S 18	01.3
End of centre line; central eclipse ends	19	03.5	W 15	37.9	S 17	26.8
⊙ Eclipse ends; last contact with Earth	19	59.0	W 28	49.7	S 19	56.1