

# IV. - Total Eclipse of the Sun

2071 September 23



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$\Delta T = +108^s.7$   
Globe centred on W 77°5 and N 12°0

Circumstances	Time (UT)	Longitude	Latitude
	h m	° /	° /
⊕ Eclipse begins; first contact with Earth	14 37.1	W131 02.8	N27 41.4
Beginning of southern limit of umbra	15 35.9	W145 43.1	N32 50.2
Beginning of centre line; central eclipse begins	15 36.1	W145 45.0	N33 07.3
Beginning of northern limit of umbra	15 36.2	W145 47.0	N33 24.3
Beginning of southern limit of penumbra	15 36.5	W146 02.6	N 1 30.9
Beginning of northern limit of penumbra	16 15.8	W154 57.3	N71 34.2
Central eclipse at local apparent noon	17 09.7	W 79 21.7	N15 45.0
End of northern limit of penumbra	18 21.9	W 7 39.9	N36 01.2
End of southern limit of penumbra	19 00.6	W 16 51.8	S 34 12.5
End of northern limit of umbra	19 01.2	W 17 13.7	S 2 19.2
End of centre line; central eclipse ends	19 01.3	W 17 15.5	S 2 35.0
End of southern limit of umbra	19 01.5	W 17 17.3	S 2 50.7
⊙ Eclipse ends; last contact with Earth	20 00.3	W 31 58.9	S 8 01.4