

# IV. - Annular-Total Eclipse of the Sun

1525 July 20



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$\Delta T = +236^s.9$   
Globe centred on E 18°4 and S 13°2

Circumstances	Time (UT)	Longitude	Latitude
	<sup>h</sup> <sup>m</sup>	<sup>o</sup> /	<sup>o</sup> /
⊕ Eclipse begins; first contact with Earth	7 24.8	W 20 16.7	N 1 22.9
Beginning of northern limit of penumbra	8 25.8	W 42 49.0	N 21 40.5
Beginning of northern limit of umbra	8 30.9	W 33 16.5	S 8 57.5
Beginning of centre line; central eclipse begins	8 31.0	W 33 15.1	S 9 06.6
Beginning of southern limit of umbra	8 31.1	W 33 13.6	S 9 15.7
Central eclipse at local apparent noon	10 27.1	E 24 36.0	S 13 10.0
End of southern limit of umbra	11 42.8	E 74 39.0	S 46 38.4
End of centre line; central eclipse ends	11 42.9	E 74 43.0	S 46 31.2
End of northern limit of umbra	11 43.0	E 74 47.1	S 46 24.0
End of northern limit of penumbra	11 48.4	E 88 30.3	S 16 33.0
⊙ Eclipse ends; last contact with Earth	12 49.2	E 64 33.3	S 36 32.9