

### III. - Total Eclipse of the Sun

1513 August 30



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ΔT = +254:5  
Globe centred on W 30°5 and S 16°9

Circumstances	Time (UT)	Longitude	Latitude
	<sup>h</sup> <sup>m</sup>	<sup>o</sup> /	<sup>o</sup> /
⊕ Eclipse begins; first contact with Earth	10 52.0	W 73 46.4	N 0 42.7
Beginning of northern limit of penumbra	11 47.0	W 89 51.1	N 23 16.1
Beginning of northern limit of umbra	11 54.7	W 88 31.5	S 8 42.9
Beginning of centre line; central eclipse begins	11 54.7	W 88 32.2	S 8 50.3
Beginning of southern limit of umbra	11 54.8	W 88 32.8	S 8 57.7
Beginning of southern limit of penumbra	13 13.5	W 98 09.5	S 62 57.6
Central eclipse at local apparent noon	13 46.3	W 27 17.6	S 22 00.6
End of southern limit of penumbra	13 49.2	W 83 37.5	S 80 17.5
End of southern limit of umbra	15 08.2	E 37 00.3	S 43 22.8
End of centre line; central eclipse ends	15 08.3	E 37 00.3	S 43 16.9
End of northern limit of umbra	15 08.3	E 37 00.2	S 43 11.0
End of northern limit of penumbra	15 16.3	E 39 05.9	S 11 13.7
⊙ Eclipse ends; last contact with Earth	16 11.2	E 22 47.5	S 33 46.3