

IV. - Annular Eclipse of the Sun

1521 September 30



$\Delta T = +242^s.4$

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Globe centred on W 72°9' and S 14°6'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	13	17.1	W109	54.3	N21	24.7
Beginning of northern limit of umbra	14	23.0	W126	45.1	N18	32.5
Beginning of centre line; central eclipse begins	14	23.6	W127	01.3	N17	26.9
Beginning of southern limit of umbra	14	24.1	W127	18.0	N16	20.9
Beginning of northern limit of penumbra	14	26.5	W121	53.7	N50	11.0
Beginning of southern limit of penumbra	15	03.7	W141	36.6	S 20	36.9
Central eclipse at local apparent noon	16	29.5	W 70	35.0	S 19	08.2
End of southern limit of penumbra	17	31.0	E 31	44.5	S 76	00.6
End of northern limit of penumbra	18	09.1	W 4	45.9	S 6	18.1
End of southern limit of umbra	18	11.0	W 0	19.5	S 40	16.1
End of centre line; central eclipse ends	18	11.6	W 0	41.3	S 39	09.3
End of northern limit of umbra	18	12.1	W 1	02.2	S 38	02.8
⊙ Eclipse ends; last contact with Earth	19	18.1	W 18	02.7	S 35	12.3