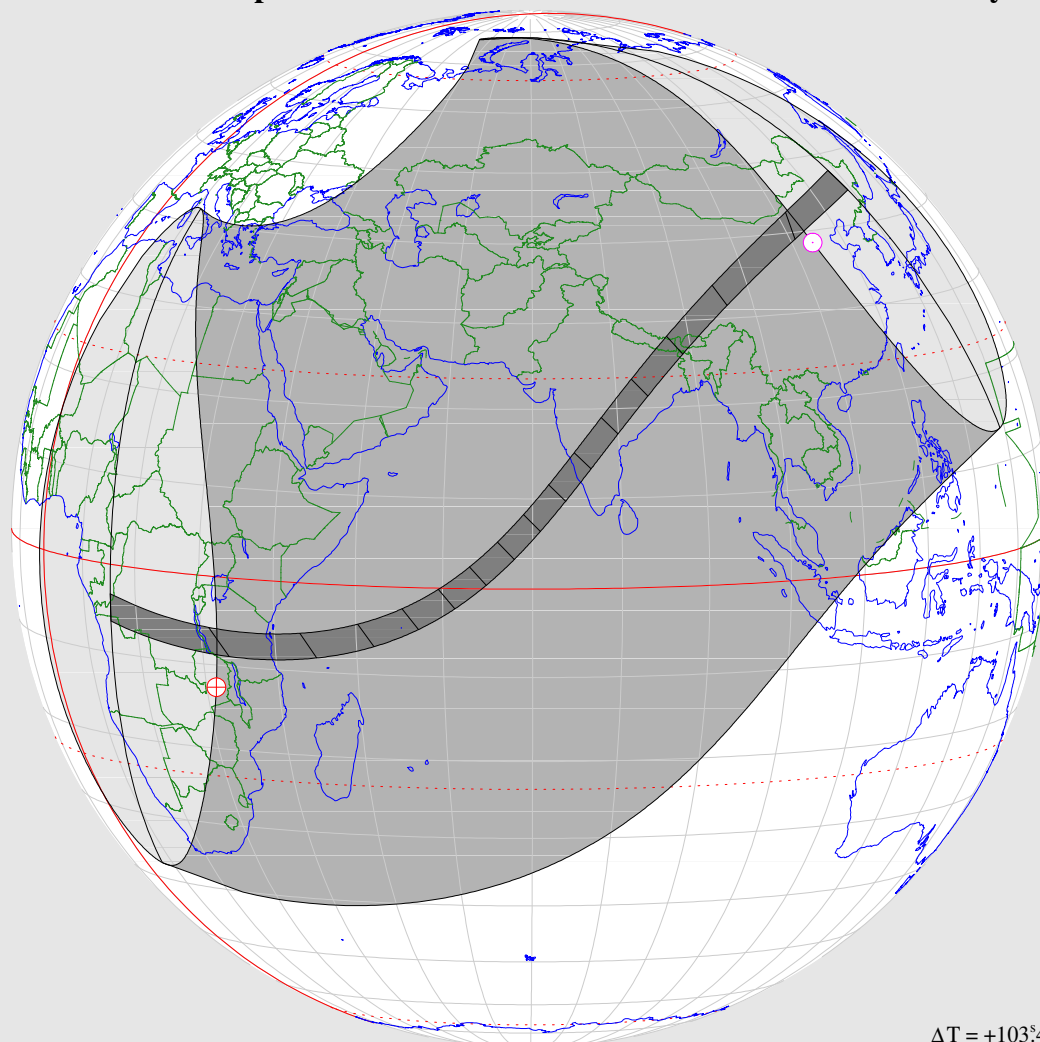


II. - Annular Eclipse of the Sun

2064 February 17



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$\Delta T = +103^s.4$
Globe centred on E 69°7' and N 6°7'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	3	57.5	E 31	23.1	S 12	35.2
Beginning of southern limit of umbra	5	07.4	E 15	16.0	S 6	25.0
Beginning of centre line; central eclipse begins	5	08.2	E 15	23.8	S 4	52.4
Beginning of northern limit of umbra	5	09.1	E 15	30.5	S 3	18.9
Beginning of southern limit of penumbra	5	09.9	E 6	38.2	S 37	20.4
Beginning of northern limit of penumbra	6	13.0	E 11	15.1	N 41	51.3
Central eclipse at local apparent noon	7	19.5	E 73	37.2	N 11	38.8
End of northern limit of penumbra	7	43.5	E 44	10.2	N 76	56.3
End of southern limit of penumbra	8	47.6	E 138	36.7	N 13	41.8
End of northern limit of umbra	8	48.0	E 128	03.3	N 47	31.6
End of centre line; central eclipse ends	8	48.9	E 128	32.0	N 46	00.2
End of southern limit of umbra	8	49.7	E 128	59.5	N 44	29.4
⊙ Eclipse ends; last contact with Earth	9	59.8	E 113	50.2	N 38	26.8