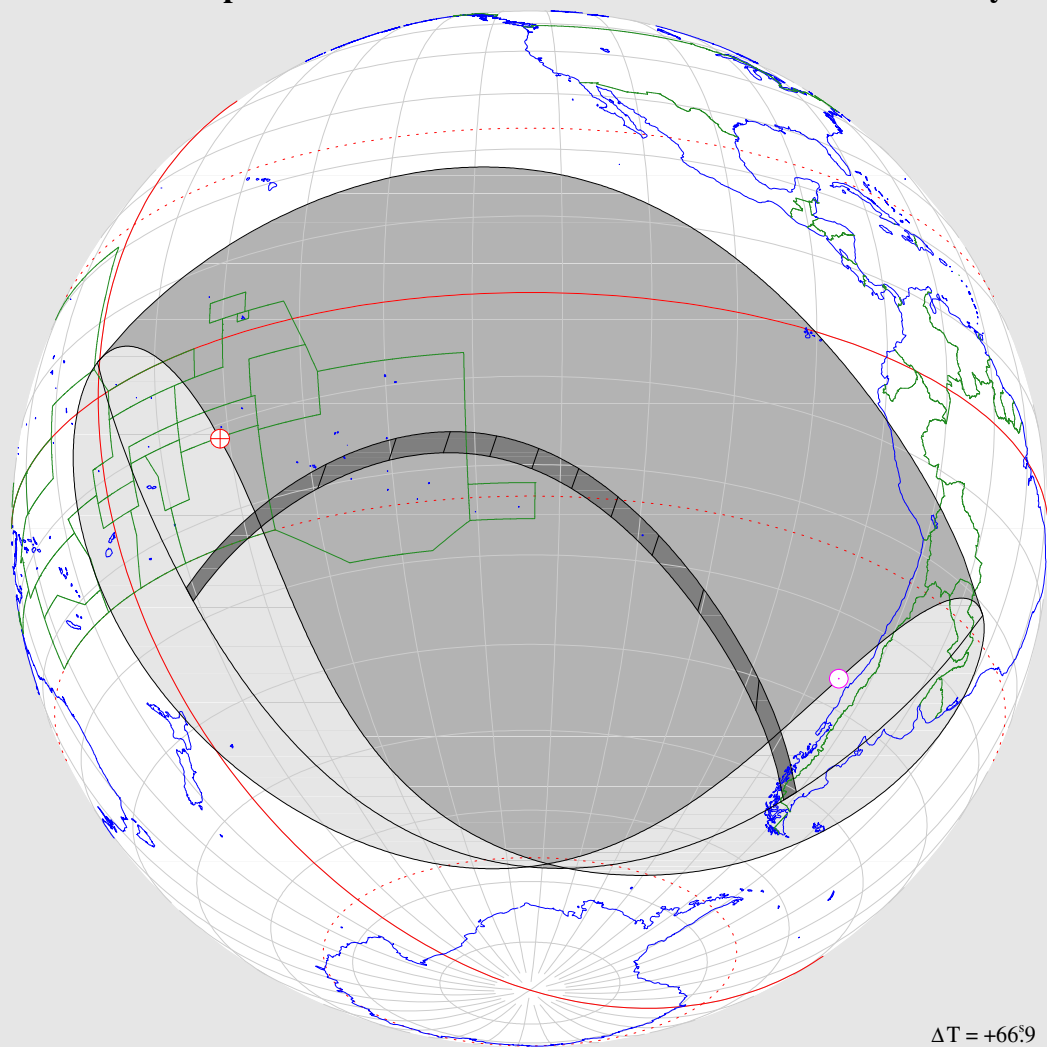


III. - Total Eclipse of the Sun

2010 July 11



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ΔT = +66:9
Globe centred on W 123:6 and S 27:1

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	17	09.6	W161	13.4	S 11	39.0
Beginning of northern limit of penumbra	17	59.6	E 179	34.9	N 4	40.1
Beginning of northern limit of umbra	18	15.9	W171	10.5	S 26	02.2
Beginning of centre line; central eclipse begins	18	16.8	W170	59.1	S 26	51.6
Beginning of southern limit of umbra	18	17.8	W170	47.5	S 27	41.8
Central eclipse at local apparent noon	19	50.9	W116	20.3	S 22	28.0
End of southern limit of umbra	20	49.0	W 71	34.3	S 51	36.6
End of centre line; central eclipse ends	20	50.0	W 70	55.6	S 50	51.6
End of northern limit of umbra	20	50.9	W 70	18.8	S 50	07.0
End of northern limit of penumbra	21	07.3	W 54	20.5	S 20	55.8
⊙ Eclipse ends; last contact with Earth	21	57.2	W 75	31.5	S 36	47.4