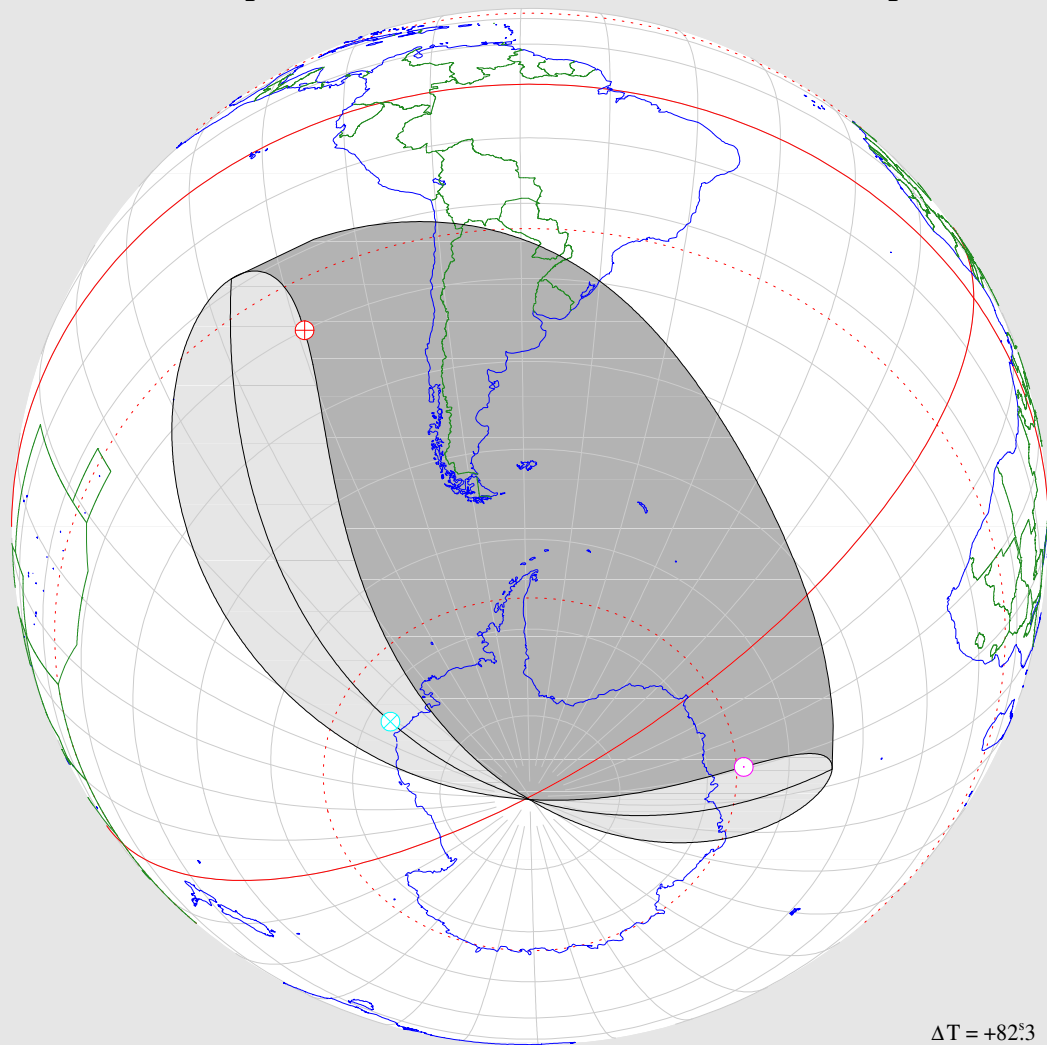


### III. - Partial Eclipse of the Sun

2033 September 23



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$\Delta T = +82^s.3$   
Globe centred on W 58°9' and S 58°6'

Circumstances	Time (UT)	Longitude	Latitude
	<sup>h</sup> <sup>m</sup>	<sup>°</sup> /	<sup>°</sup> /
⊕ Eclipse begins; first contact with Earth	11 47.7	W 89 02.4	S 29 59.3
Beginning of northern limit of penumbra	12 17.0	W 96 17.6	S 18 27.1
⊗ Greatest eclipse (magnitude = 0.6891)	13 53.1	W 121 17.1	S 72 18.9
End of northern limit of penumbra	15 29.0	E 36 19.0	S 54 10.6
○ Eclipse ends; last contact with Earth	15 58.2	E 29 18.9	S 65 37.5