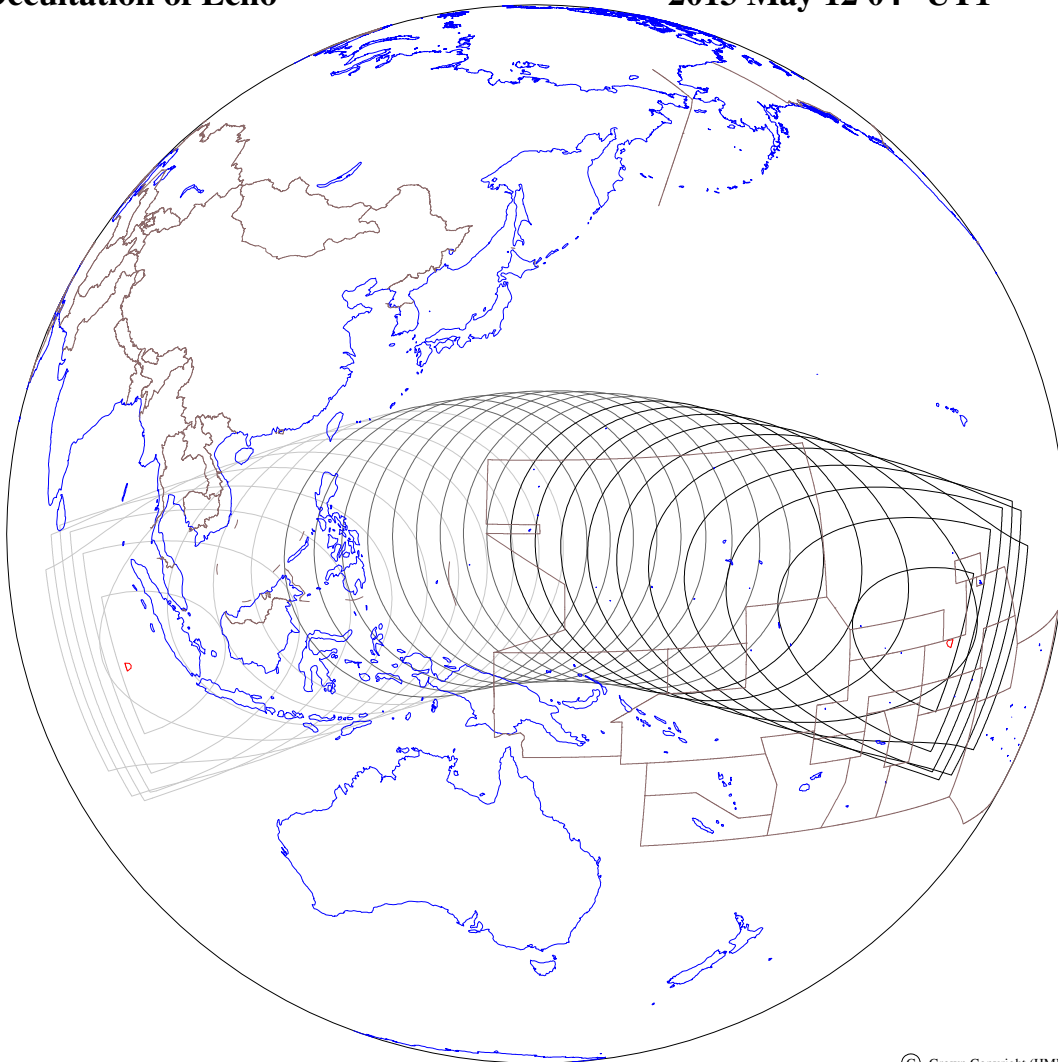


Occultation of Echo

2013 May 12 04^h UT1



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Conjunction 2013 May 12

Time 03^h 55^m 20^s TT

Right ascension 4^h 56^m 50^s

Declination +20° 13' 36"

Delta T = TT - UT1 = 67^s0

Centre of the globe: longitude 145°6' E

latitude 13°0' N

First shadow 2013 May 12 at 01^h 29^m3 UT1

Last shadow 2013 May 12 at 06^h 19^m8 UT1

Footprints (light to dark) every 00^h 10^m0