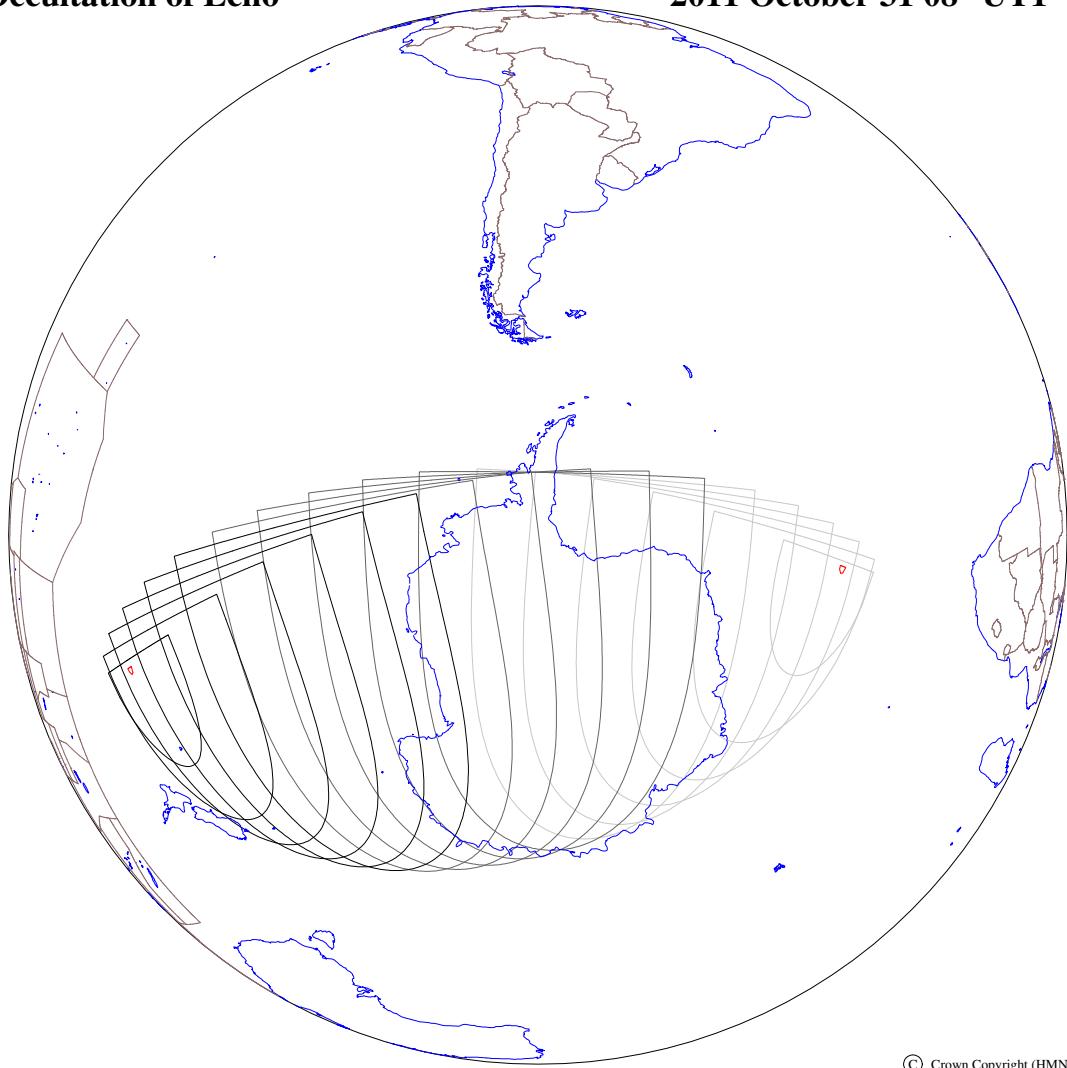


Occultation of Echo

2011 October 31 08^h UT1



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Conjunction	2011 October 31	Centre of the globe: longitude	066°1 W
Time	08 ^h 27 ^m 11 ^s TT	latitude	76°8 S
Right ascension	18 ^h 38 ^m 55 ^s	First shadow 2011 Oct. 31 at	07 ^h 17 ^m 1 UT1
Declination	-20° 01' 31"	Last shadow 2011 Oct. 31 at	10 ^h 06 ^m 4 UT1
Delta T = TT - UT1 =	67 ^s 0	Footprints (light to dark) every	00 ^h 10 ^m 0