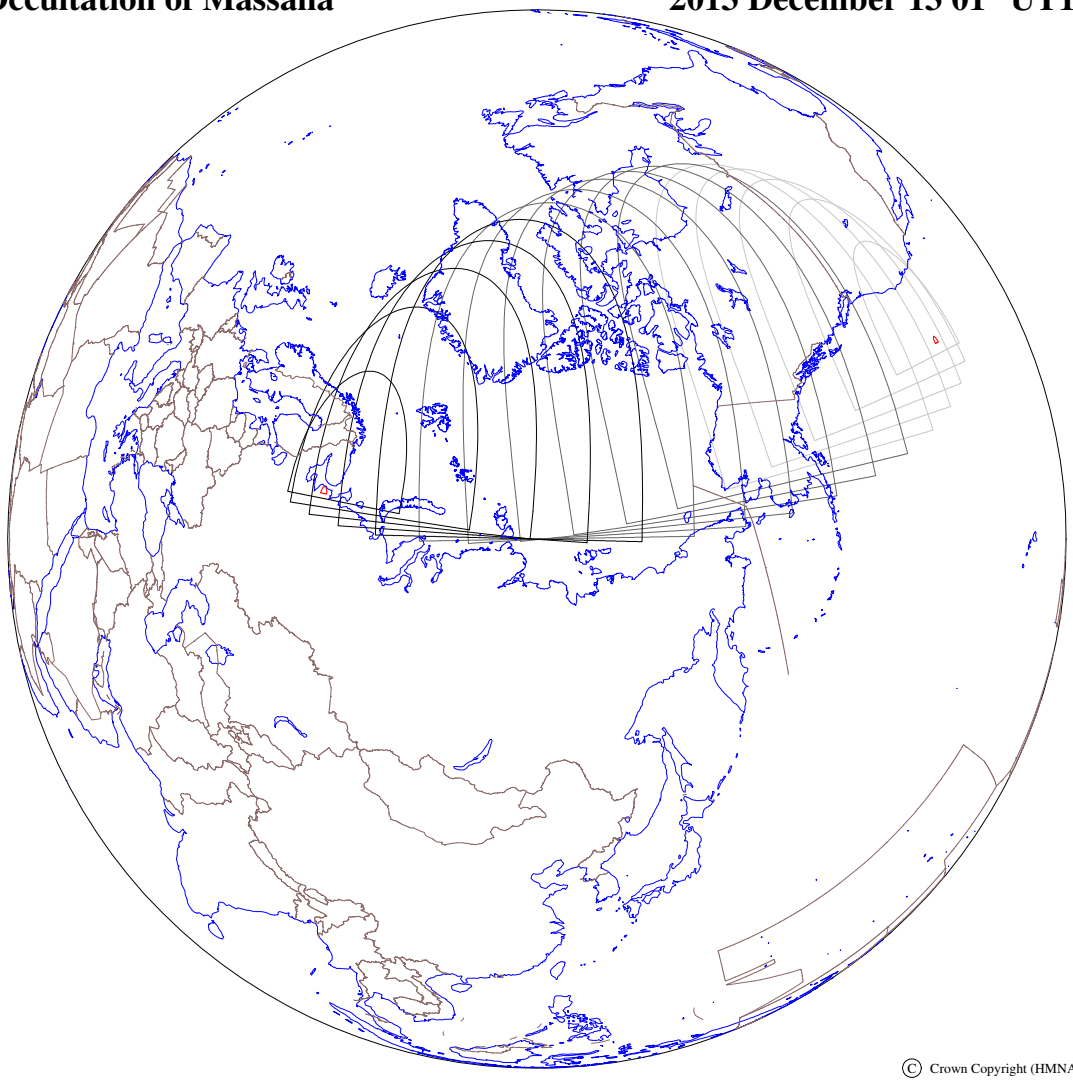
Occultation of Massalia **2013 December 13 01^h UT1**



© Crown Copyright (HMNAO)

Conjunction	2013 December 13		
Time	$00^h\ 38^m\ 41^s$ TT	Centre of the globe: longitude	$118^\circ.5$ E
Right ascension	$1^h\ 58^m\ 59^s$	latitude	$78^\circ.4$ N
Declination	$+11^\circ\ 38'\ 02''$	First shadow 2013 Dec. 12 at	$22^h\ 47^m.5$ UT1
		Last shadow 2013 Dec. 13 at	$01^h\ 29^m.4$ UT1
Delta T = TT - UT1 =	$67^s.0$	Footprints (light to dark) every	$00^h\ 10^m.0$