

# Partial Solar Eclipse of 2019 Jan 06

Geocentric Conjunction = 01:43:34.7 UT      J.D. = 2458489.571929

Greatest Eclipse = 01:41:21.7 UT      J.D. = 2458489.570390

Eclipse Magnitude = 0.7147      Gamma = 1.1417

Saros Series = 122      Member = 58 of 70

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 19h06m57.3s

Dec. = -22°32'36.8"

S.D. = 00°16'15.9"

H.P. = 00°00'08.9"

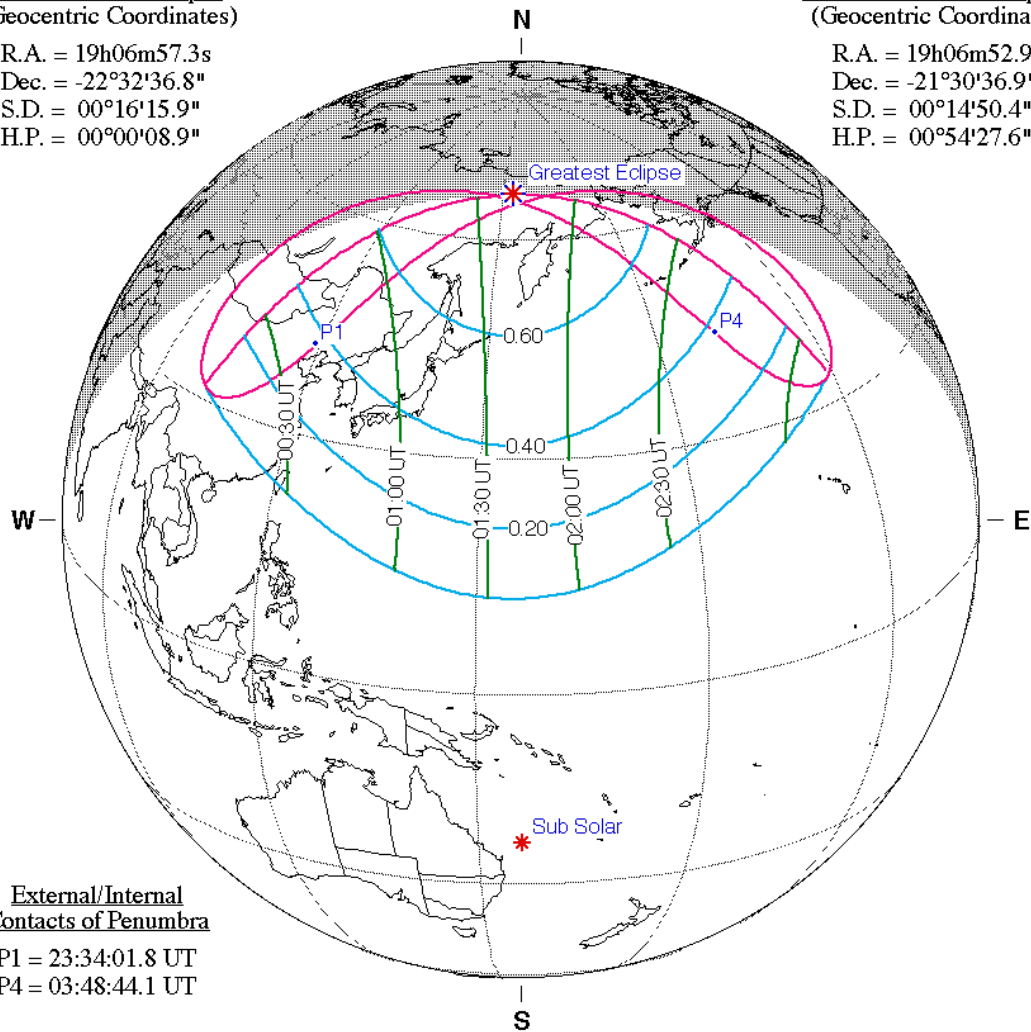
## Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 19h06m52.9s

Dec. = -21°30'36.9"

S.D. = 00°14'50.4"

H.P. = 00°54'27.6"



## External/Internal Contacts of Penumbra

P1 = 23:34:01.8 UT

P4 = 03:48:44.1 UT

## Ephemeris & Constants

Eph. = Newcomb/ILE

$\Delta T = 75.7$  s

$k1 = 0.2724880$

$k2 = 0.2722810$

$\Delta b = 0.0''$      $\Delta l = 0.0''$

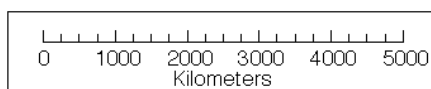
## Geocentric Libration (Optical + Physical)

$l = 2.82^\circ$

$b = -1.33^\circ$

$c = -8.09^\circ$

Brown Lun. No. = 1188



F. Espenak, NASA's GSFC - Fri, Jul 2,  
[sunearth.gsfc.nasa.gov/eclipse/eclipse.html](http://sunearth.gsfc.nasa.gov/eclipse/eclipse.html)