Total Lunar Eclipse of 2018 Jan 31

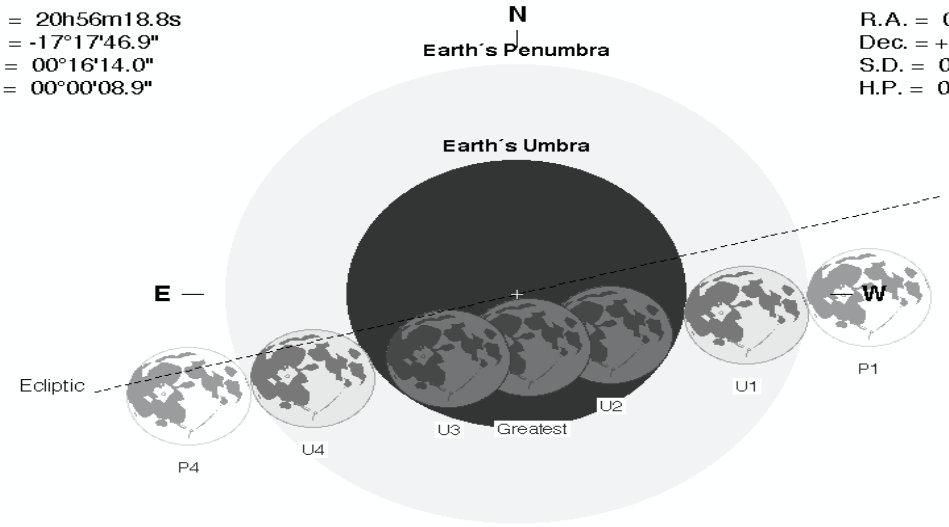
Ecliptic Conjunction = 13:27:53.0 TD (= 13:26:42.5 UT)
Greatest Eclipse = 13:31:00.1 TD (= 13:29:49.6 UT)

Penumbral Magnitude = 2.2941 P. Radius = 1.2978° Gamma = -0.3014
Umbral Magnitude = 1.3155 U. Radius = 0.7567° Axis = 0.3058°

Saros Series = 124 Member = 49 of 74

Sun at Greatest Eclipse
(Geocentric Coordinates)
R.A. = 20h56m18.8s
Dec. = -17°17'46.9"
S.D. = 00°16'14.0"
H.P. = 00°00'08.9"

Moon at Greatest Eclipse
(Geocentric Coordinates)
R.A. = 08h56m05.0s
Dec. = +16°59'44.1"
S.D. = 00°16'35.2"
H.P. = 01°00'52.5"

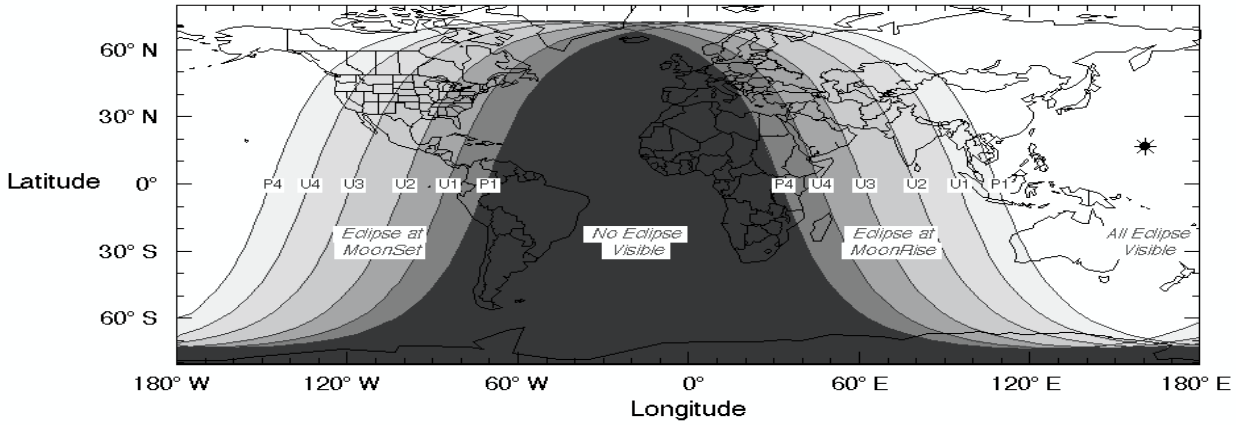


Eclipse Durations
Penumbral = 05h17m12s
Umbral = 03h22m44s
Total = 01h16m04s

ΔT = 71 s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC
eclipse.gsfc.nasa.gov/eclipse.html

Eclipse Contacts
P1 = 10:51:15 UT
U1 = 11:48:27 UT
U2 = 12:51:47 UT
U3 = 14:07:51 UT
U4 = 15:11:11 UT
P4 = 16:08:27 UT



2009 Apr 29

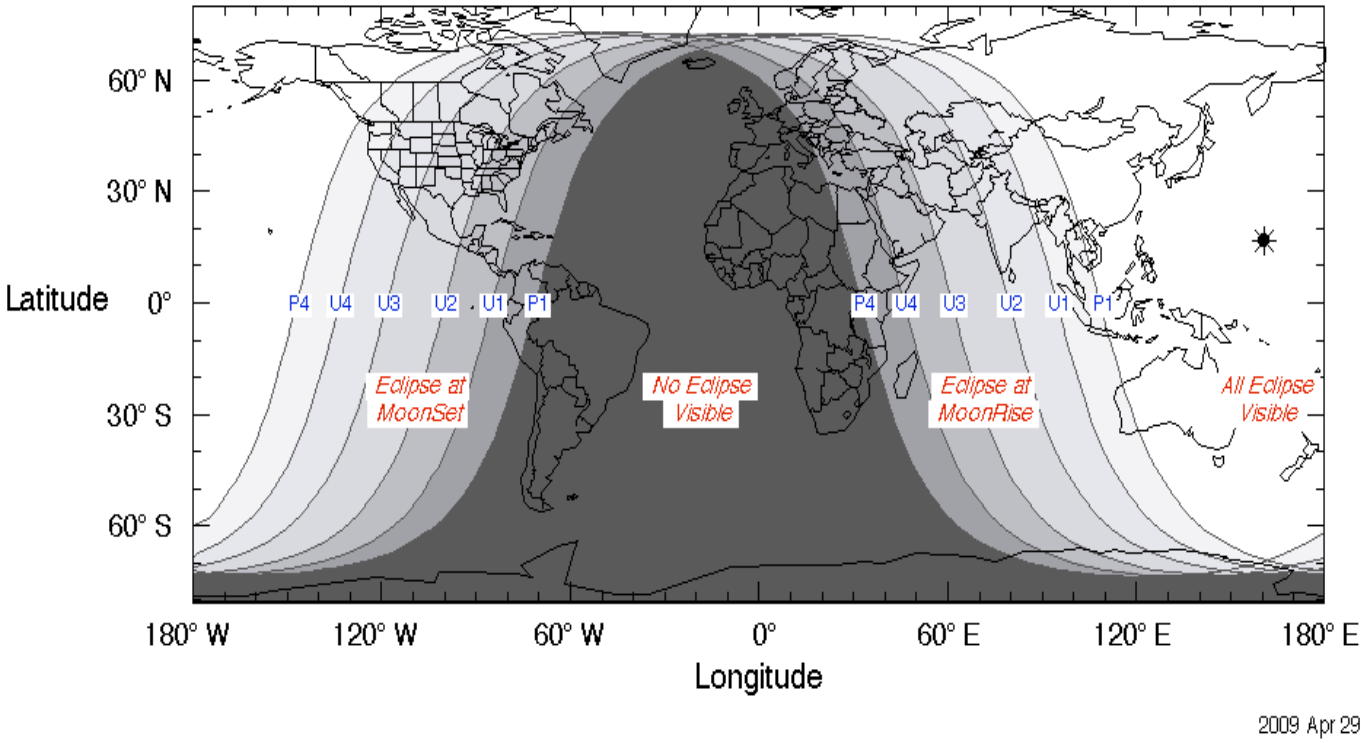
Timing for ALASKA: P1=1:51 (not noticeable), **U1=2:48 AM, U2=3:51 (total), max (darkest) 4:29, U3=5:07 (end totality), U4=6:11,** P2=7:08.

Find timing for other locations at this website:
www.timeanddate.com/eclipse/in/usa or simply adjust for your time zone.

During the PENUMBRAL portion (beginning and ending) the Moon moves through the bright outer part of Earth's shadow. Any dimming will be barely visible.

Moon starts entry into dark part of Earth's shadow at U1, totality (U2 through U3) lasts 1 hr 16 min.

As you can see from the chart below, the rest of the U.S. sees the Moon set during some part of the Eclipse, Wednesday morning 1/31/18.



These charts are from NASA.

You can go to this site for info about past and future Lunar and Solar Eclipses: https://eclipse.gsfc.nasa.gov/eclipse.html