

FIGURE 6

Penumbral Lunar Eclipse of 2012 Nov 28

Ecliptic Conjunction = 14:47:02.9 TD (= 14:45:56.1 UT)

Greatest Eclipse = 14:34:06.8 TD (= 14:33:00.0 UT)

Penumbral Magnitude = 0.9155 P. Radius = 1.1811° Gamma = -1.0868

Umbral Magnitude = -0.1872 U. Radius = 0.6406° Axis = 0.9774°

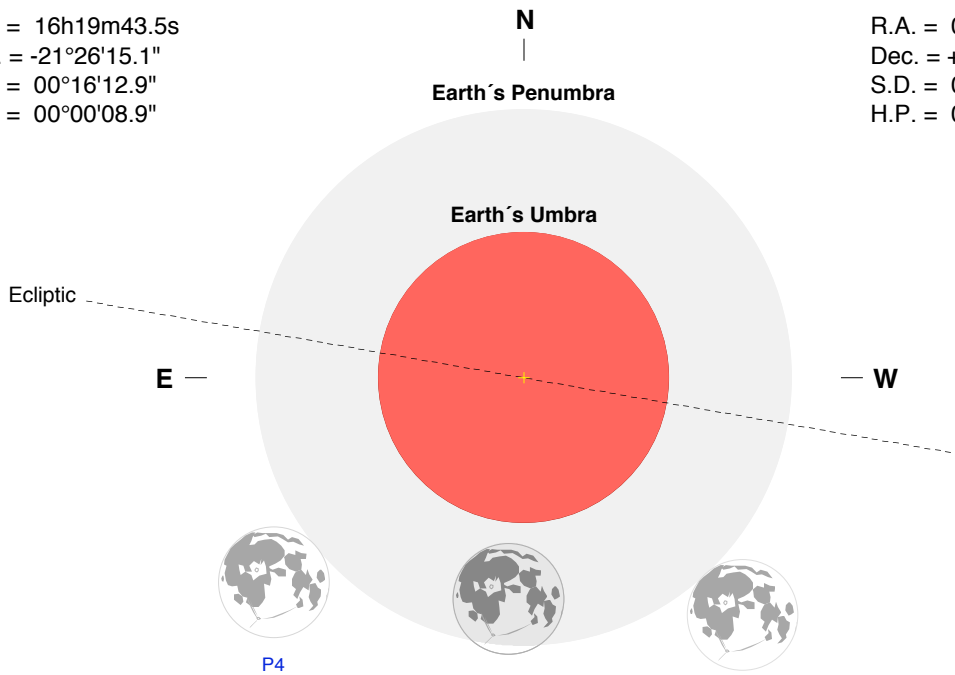
Saros Series = 145 Member = 11 of 71

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 16h19m43.5s
Dec. = -21°26'15.1"
S.D. = 00°16'12.9"
H.P. = 00°00'08.9"

Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 04h20m01.1s
Dec. = +20°27'44.8"
S.D. = 00°14'42.2"
H.P. = 00°53'57.7"



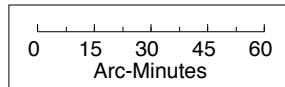
Eclipse Durations

Penumbral = 04h36m05s

Eclipse Contacts

P1 = 12:14:58 UT

P4 = 16:51:02 UT



$\Delta T = 67$ s
Rule = CdT (Danjon)
Eph. = VSOP87/ELP2000-85

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

