

Partial Lunar Eclipse of 1999 Jul 28

Geocentric Conjunction = 11:46:52.8 UT J.D. = 2451387.99089

Greatest Eclipse = 11:33:43.8 UT J.D. = 2451387.98176

Penumbral Magnitude = 1.4599

P. Radius = 1.2157°

Gamma = 0.7863

Umbral Magnitude = 0.4015

U. Radius = 0.6802°

Axis = 0.7300°

Saros Series = 119 Member = 61 of 83

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 08h29m15.8s

Dec. = +19°01'23.7"

S.D. = 00°15'45.0"

H.P. = 00°00'08.7"

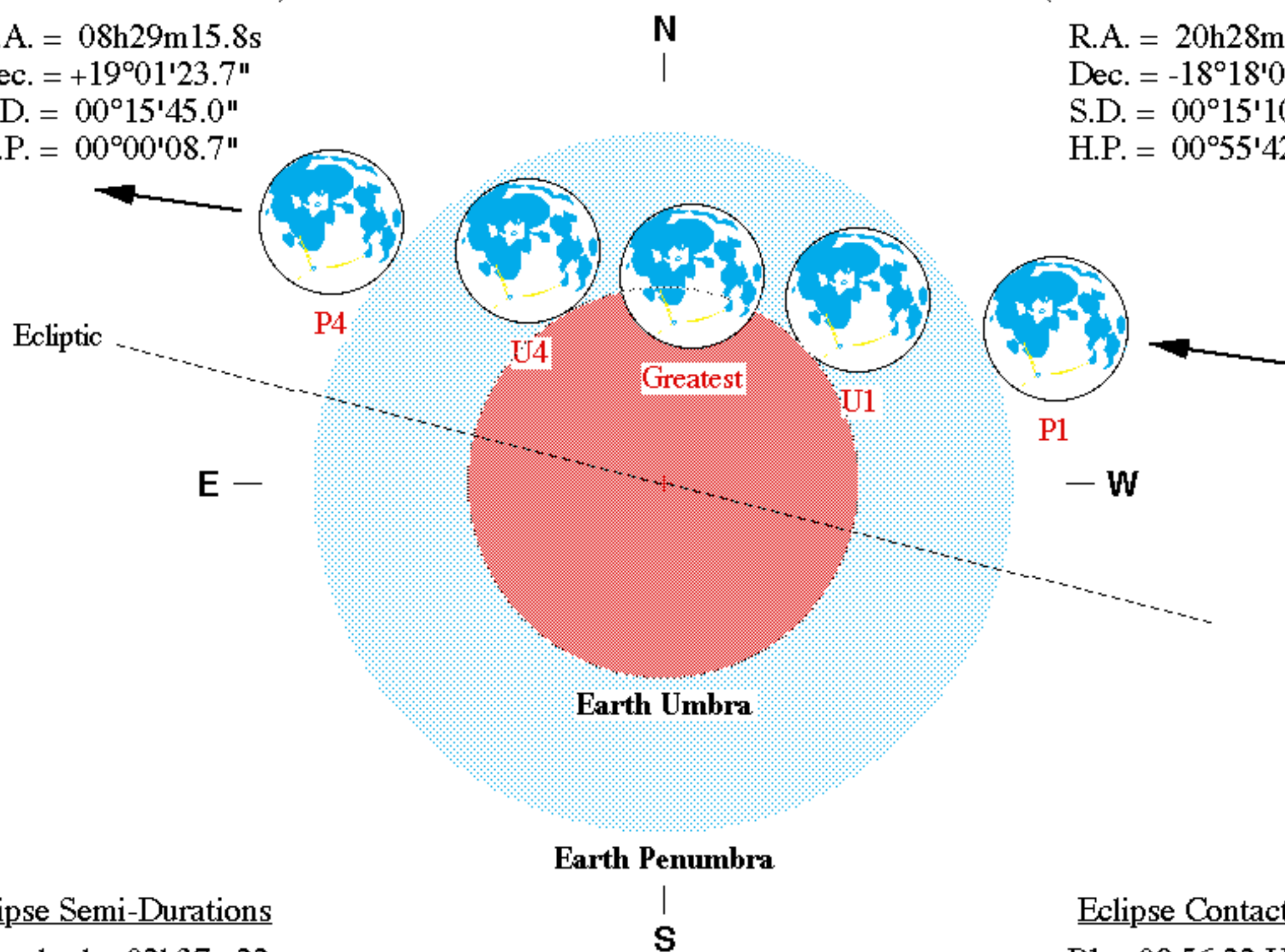
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 20h28m49.1s

Dec. = -18°18'03.1"

S.D. = 00°15'10.7"

H.P. = 00°55'42.5"



Eclipse Semi-Durations

Penumbral = 02h37m22s

Umbral = 01h11m46s

Eclipse Contacts

P1 = 08:56:22 UT

U1 = 10:22:02 UT

U4 = 12:45:34 UT

P4 = 14:11:06 UT

Eph. = Newcomb/ILE

$\Delta T = 63.7$ s

F. Espenak, NASA's GSFC - 2004 Jul 09

<http://sunearth.gsfc.nasa.gov/eclipse/eclipse.html>

