

Total Solar Eclipse of 2026 Aug 12

Geocentric Conjunction = 17:03:39.9 UT J.D. = 2461265.210878

Greatest Eclipse = 17:45:43.7 UT J.D. = 2461265.240089

Eclipse Magnitude = 1.0386 Gamma = 0.8976

Saros Series = 126 Member = 48 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 09h29m47.2s

Dec. = +14°48'04.7"

S.D. = 00°15'47.0"

H.P. = 00°00'08.7"

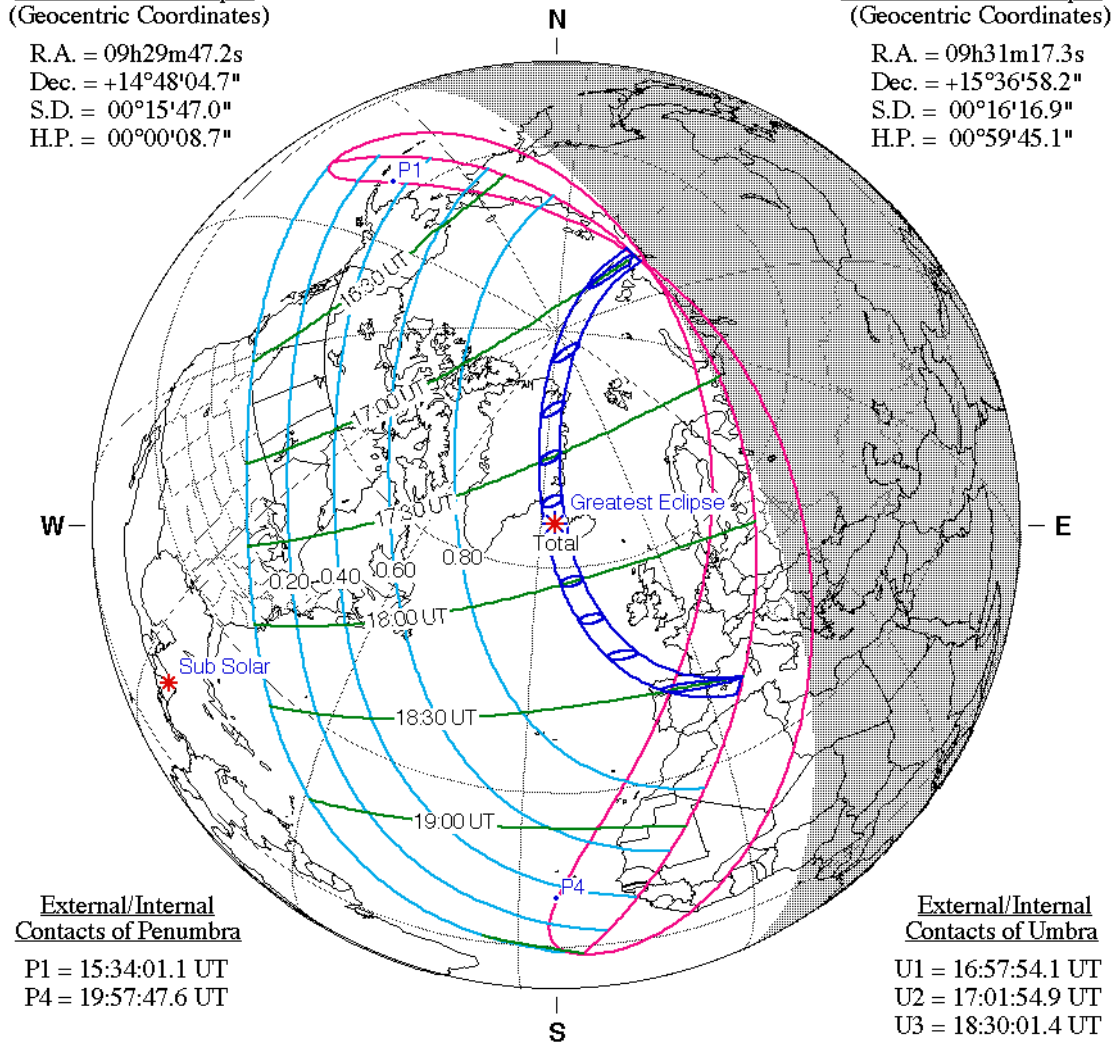
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 09h31m17.3s

Dec. = +15°36'58.2"

S.D. = 00°16'16.9"

H.P. = 00°59'45.1"



External/Internal Contacts of Penumbra

P1 = 15:34:01.1 UT

P4 = 19:57:47.6 UT

External/Internal Contacts of Umbra

U1 = 16:57:54.1 UT

U2 = 17:01:54.9 UT

U3 = 18:30:01.4 UT

U4 = 18:33:57.4 UT

Local Circumstances at Greatest Eclipse

Lat. = 65°13.0'N Sun Alt. = 25.8°

Long. = 025°13.6'W Sun Azm. = 248.3°

Path Width = 293.8 km Duration = 02m18.3s

Ephemeris & Constants

Eph. = Newcomb/ILE

$\Delta T = 83.8$ s

$k_1 = 0.2724880$

$k_2 = 0.2722810$

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

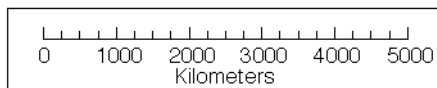
Geocentric Libration (Optical + Physical)

$l = 4.08^\circ$

$b = -1.12^\circ$

$c = 16.98^\circ$

Brown Lun. No. = 1282



F. Espenak, NASA's GSFC - Fri, Jul 2,
sunearth.gsfc.nasa.gov/eclipse/eclipse.html