

Figure 1

Annular Solar Eclipse of 2009 Jan 26

Ecliptic Conjunction = 07:56:22.8 TD (= 07:55:17.1 UT)

Greatest Eclipse = 07:59:44.3 TD (= 07:58:38.6 UT)

Eclipse Magnitude = 0.9282 Gamma = -0.2820

Saros Series = 131 Member = 50 of 70

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 20h35m32.8s

Dec. = -18°38'55.0"

S.D. = 00°16'14.6"

H.P. = 00°00'08.9"

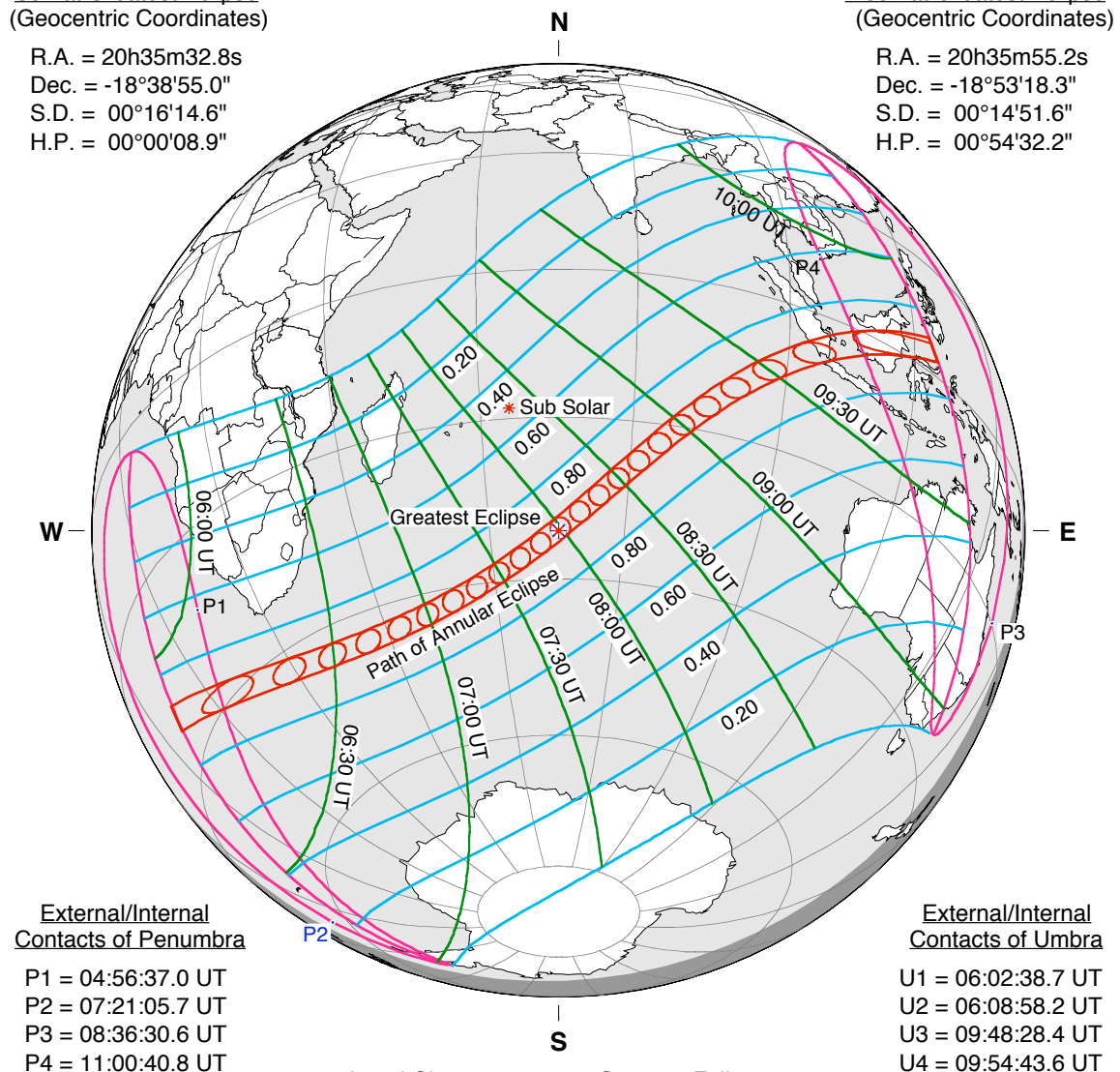
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 20h35m55.2s

Dec. = -18°53'18.3"

S.D. = 00°14'51.6"

H.P. = 00°54'32.2"



External/Internal Contacts of Penumbra

P1 = 04:56:37.0 UT

P2 = 07:21:05.7 UT

P3 = 08:36:30.6 UT

P4 = 11:00:40.8 UT

External/Internal Contacts of Umbra

U1 = 06:02:38.7 UT

U2 = 06:08:58.2 UT

U3 = 09:48:28.4 UT

U4 = 09:54:43.6 UT

Local Circumstances at Greatest Eclipse

Lat. = 34°04.6'S Sun Alt. = 73.4°

Long. = 070°14.0'E Sun Azm. = 337.0°

Path Width = 280.2 km Duration = 07m53.6s

Constants & Ephemeris

ΔT = 65.7 s

k1 = 0.2724880

k2 = 0.2722810

Δb = 0.0" Δl = 0.0"

Eph. = VSOP87/ELP2000-85

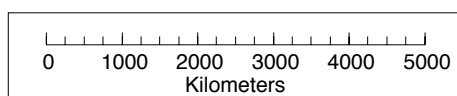
Geocentric Libration (Optical + Physical)

l = -3.01°

b = 0.38°

c = -12.94°

Brown Lun. No. = 1065



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