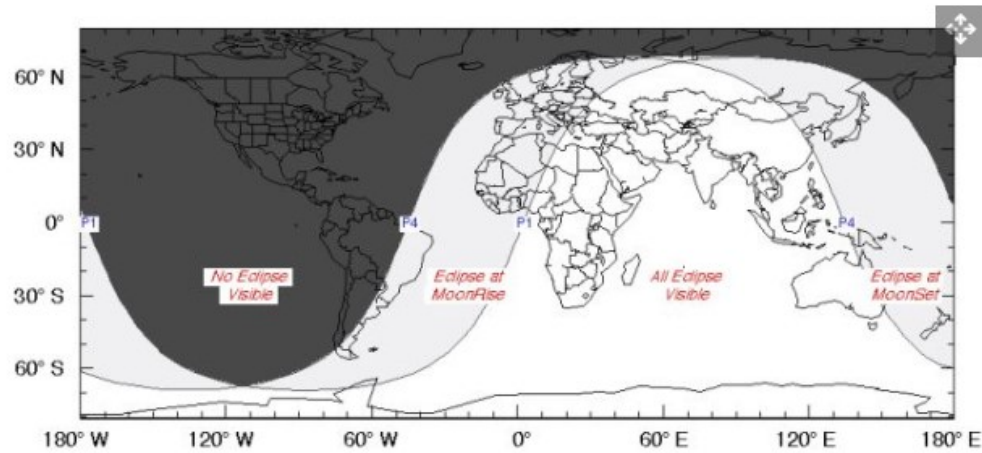
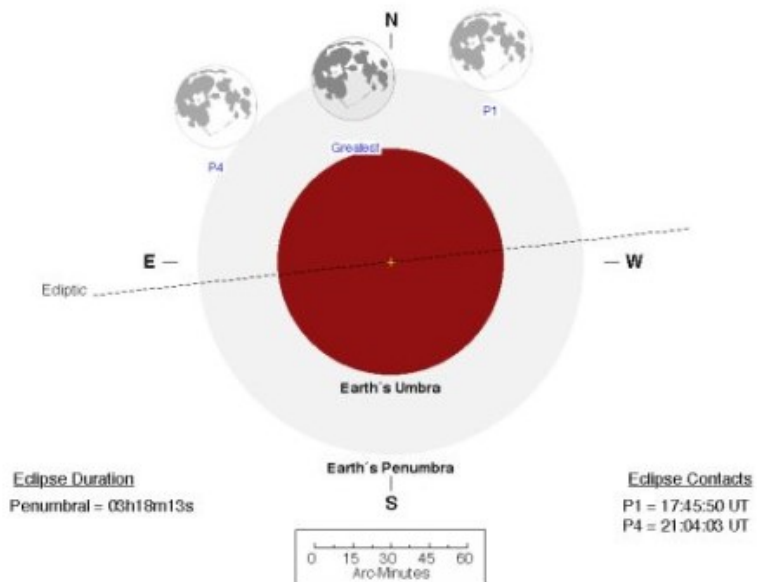


# June Eclipses

## Penumbral lunar eclipse on June 5-6

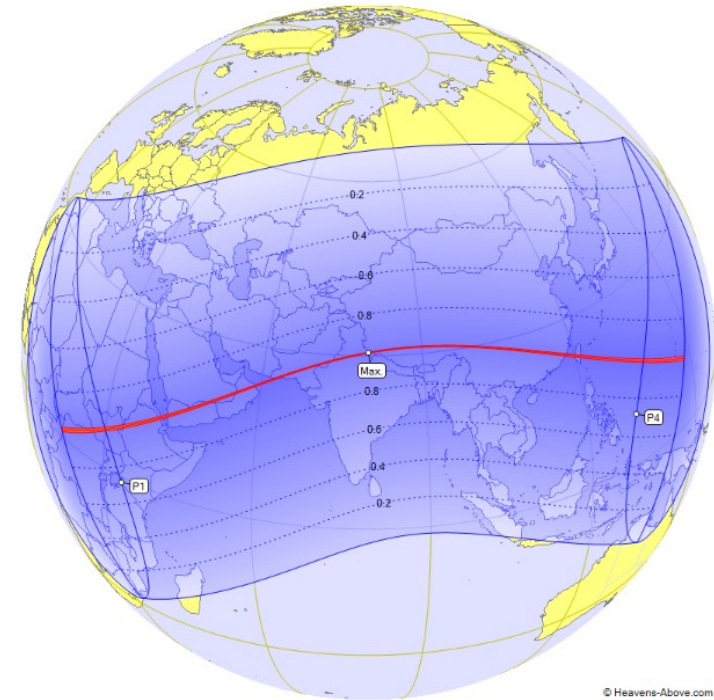


A visibility map for the penumbral lunar eclipse of June 5-6, 2020. (Image credit: Fred Espenak/NASA)



This diagram from astronomer Fred Espenak shows the moon's path through the other part of Earth's shadow on June 5-6, 2020. (Image credit: Fred Espenak/NASA)

## Annular Solar Eclipse 21st June 2020



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Events	
First contact of penumbra (P1)	Jun 21, 03:45:59
First contact of umbra (U1)	Jun 21, 04:47:42
Maximum eclipse	Jun 21, 06:40:04 (30.52°N, 79.66°E)
Last contact of umbra (U4)	Jun 21, 08:32:20
Last contact of penumbra (P4)	Jun 21, 09:34:00

Eclipse Data	
Magnitude	0.994
Obscuration	98.8
Delta-T	70.5s
Gamma	0.1209
Saros	Series 137, eclipse 0 of 0
Brown Lunation Number	1206