

# Total Solar Eclipse of July 22, 2009

## Detail: Longitude 164°W to 161°W

Map prepared by Michael Zeiler (mzeiler@esri.com)  
Produced with ESRI ArcMap software using world shaded relief data from www.esri.com/arcgisonline  
Eclipse path calculations by Fred Espenak, NASA Goddard Space Flight Center (www.nasaeclipse.com)  
Grid points for lines of equal duration calculated by Bill Kramer (www.eclipse-chasers.com)  
Map projection is World Cylindrical Equal Area on WGS 1984 Spheroid

