



**EXPLANATION**

First-motion focal mechanisms (lower-hemisphere, equal-area projections) are presented for large earthquakes occurring between 1 January 1981 and 31 December 1985. Earthquakes between January 1981 and July 1982 have magnitudes of 6.5 or greater. Earthquakes occurring after August 1982 have mb magnitudes of 5.8 or greater (mb 5.7 or greater if the hypocentral depth is greater than 70 km). Three colors distinguish the depth-of-focus classes.

SYMBOL	DEPTH-OF-FOCUS (km)
○	0 - 70
◐	71 - 300
◑	301 - 700

 Compressional first-motions  
 Dilatational first-motions

Mercator projection  
Scale 1:40,000,000 at the Equator

UNITED STATES GEOLOGICAL SURVEY, WASHINGTON, D.C. 20508

**MAP SHOWING GLOBAL DISTRIBUTION OF FIRST-MOTION FOCAL MECHANISMS, 1981-1985**

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**DATA SOURCES**  
 Needham, R. E., 1986. Catalog of first-motion focal mechanisms 1981-1983: U.S. Geological Survey Open-File Report 86-285A-C, 3 v.  
 ———, 1986. Catalog of first-motion focal mechanisms 1984-1985: U.S. Geological Survey Open-File Report 86-520A-C.

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