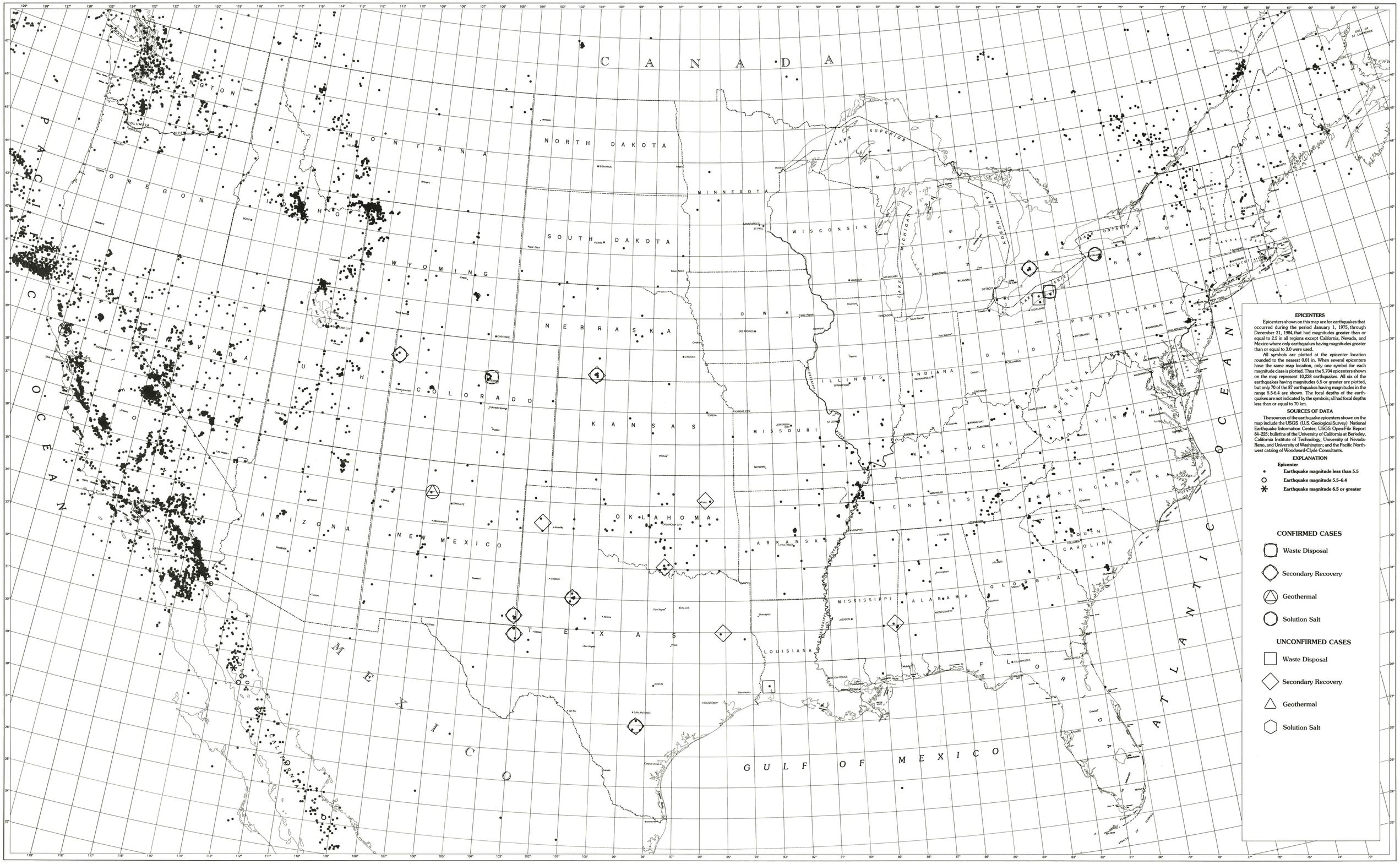

EPICENTERS

Epicenters shown on this map are for earthquakes that occurred during the period January 1, 1975, through December 31, 1984, that had magnitudes greater than or equal to 2.5 in all regions except California, Nevada, and Mexico where only earthquakes having magnitudes greater than or equal to 3.0 were used.

All symbols are plotted at the epicenter location rounded to the nearest 0.01 in. When several epicenters have the same map location, only one symbol for each magnitude class is plotted. Thus the 5,704 epicenters shown on the map represent 10,228 earthquakes. All six of the earthquakes having magnitudes 6.5 or greater are plotted, but only 70 of the 87 earthquakes having magnitudes in the range 5.5-6.4 are shown. The focal depths of the earthquakes are not indicated by the symbols; all had focal depths less than or equal to 70 km.

SOURCES OF DATA

The sources of the earthquake epicenters shown on the map include the USGS (U.S. Geological Survey) National Earthquake Information Center; USGS Open-File Report 84-225; bulletins of the University of California at Berkeley, California Institute of Technology, University of Nevada-Reno, and University of Washington; and the Pacific Northwest catalog of Woodward-Clyde Consultants.

EXPLANATION

Epicenter

- • **Earthquake magnitude less than 5.5**
- ○ **Earthquake magnitude 5.5-6.4**
- ✱ **Earthquake magnitude 6.5 or greater**

CONFIRMED CASES

- Waste Disposal
- Secondary Recovery
- Geothermal
- Solution Salt

UNCONFIRMED CASES

- Waste Disposal
- Secondary Recovery
- Geothermal
- Solution Salt

Base from U.S. Geological Survey, 1986

100 0 100 200 300 400 500 MILES

100 0 100 200 300 400 500 600 700 KILOMETERS

Geologic boundaries and structural features from the U.S. Geological Survey and American Association of Petroleum Geologists (1961) Tectonic map of the United States, scale 1:2,500,000

Seismicity reproduced from Stover (1986)

EARTHQUAKES IN THE CONTERMINOUS UNITED STATES (1975-84) AND SITES OF EARTHQUAKES ASSOCIATED WITH DEEP-WELL ACTIVITIES