

EARTHQUAKE CATALOG OF OKLAHOMA, 1900-1978

Table with columns for Event Num, Date and Origin Time, County, Inten., Magn., Longitude, Latitude, Depth, Source, and Source Coordinates. It lists numerous earthquake events from 1900 to 1978.

NOTE: Refer to Coordinated Universal Time, formerly Greenwich Mean Time. The first two digits refer to the hour on a 24-hour clock. The next two digits refer to the minute, and the remaining digits are a decimal. To convert to local Central Standard Time, subtract six hours.

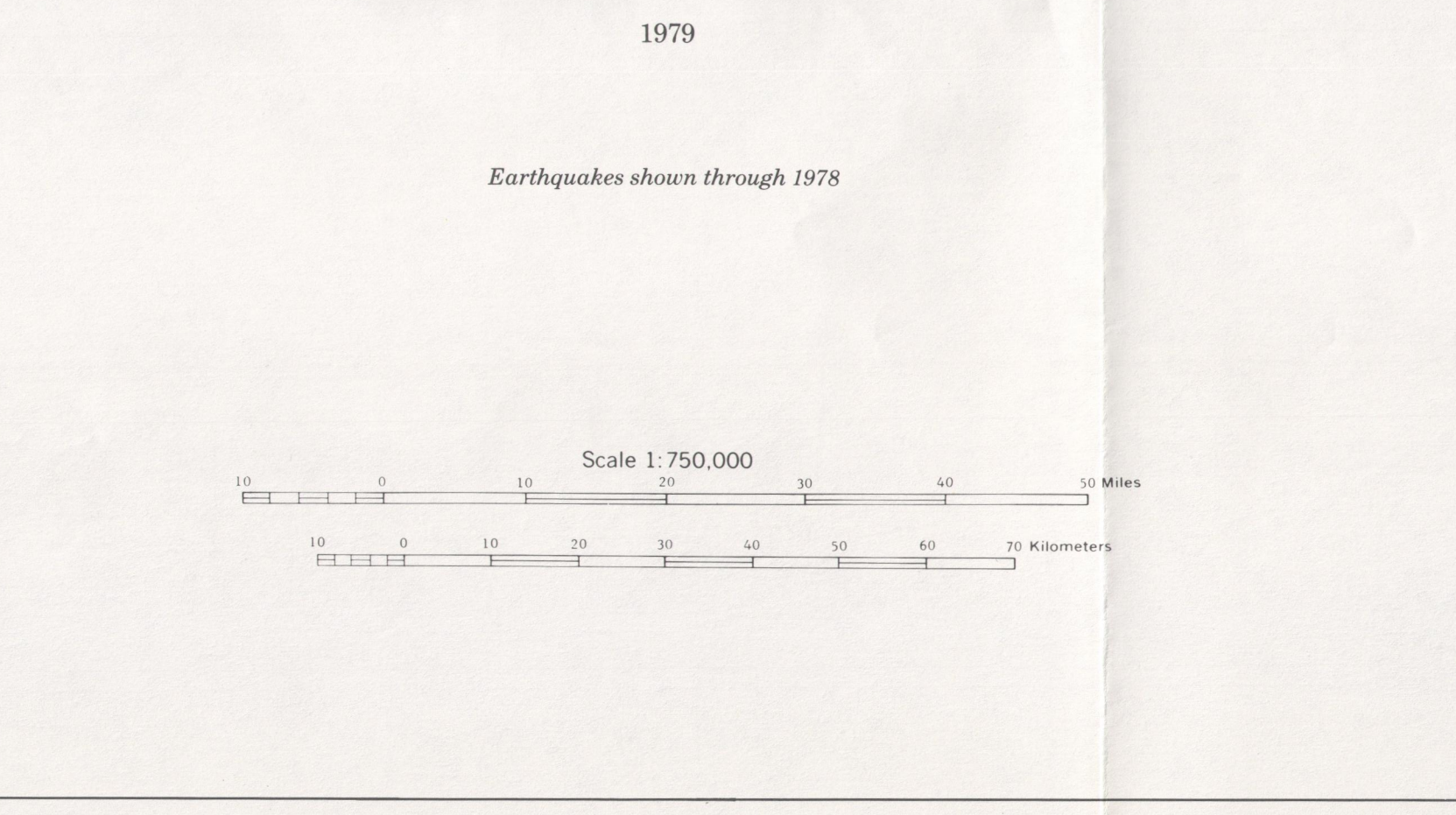
MODIFIED MERCALLI (MM) EARTHQUAKE INTENSITY SCALE (abbreviated)
I Not felt except by a very few under especially favorable circumstances.
II Felt quite noticeably by indoors, especially on upper floors of buildings. Standing window can rock slightly.

For earthquake epicenters located between 1 km and 22 km from a seismograph station, Otto Nuttall developed the mSL scale...
mSL = log(A/T) - 1.61 + 0.87 log(D)

When seismograph stations are located between 40 km and 130 km from the epicenter, mSL is defined as mSL = log(A/T) - 1.30 + 1.06 log(D)

EARTHQUAKE MAP OF OKLAHOMA

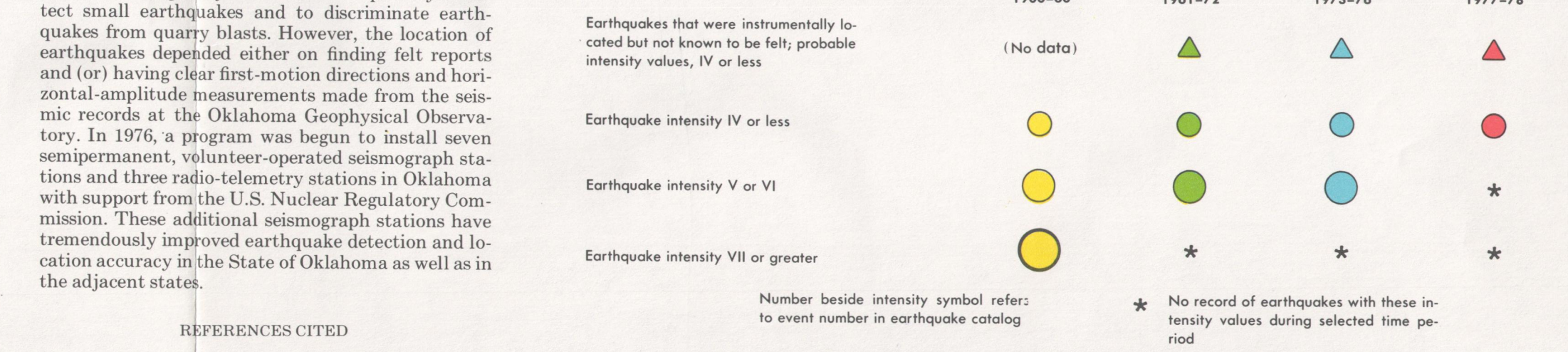
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Oklahoma is part of a geologic region referred to as the Stable Central Province (Kings, 1931; Hadley and Devine, 1974). This province extends from the western margin of the Appalachian Plateau to the eastern edge of the Rocky Mountain Uplift and from the Gulf Coastal Plain to south-central Canada.

This earthquake map displays 182 locatable earthquakes known to have occurred in Oklahoma. Prior to 1854, more than half the known Oklahoma earthquakes occurred in the vicinity of El Reno.

EXPLANATION



REFERENCES CITED
HARLEY, J. B., and DEVINE, J. F., 1974. Seismotectonic map of the eastern United States. U.S. Geological Survey Miscellaneous Field Study Map MF420, 9 p. 3 sheets.
KING, F. B., 1901. The tectonics of middle North America-east of the Canadian system. Princeton University Press, Princeton, N.J., 393 p.

This map is intended for use as a guide only to earthquake intensity and epicentral locations. The epicentral locations are based on data that may vary greatly in accuracy, particularly regarding earthquakes that occurred prior to 1900.