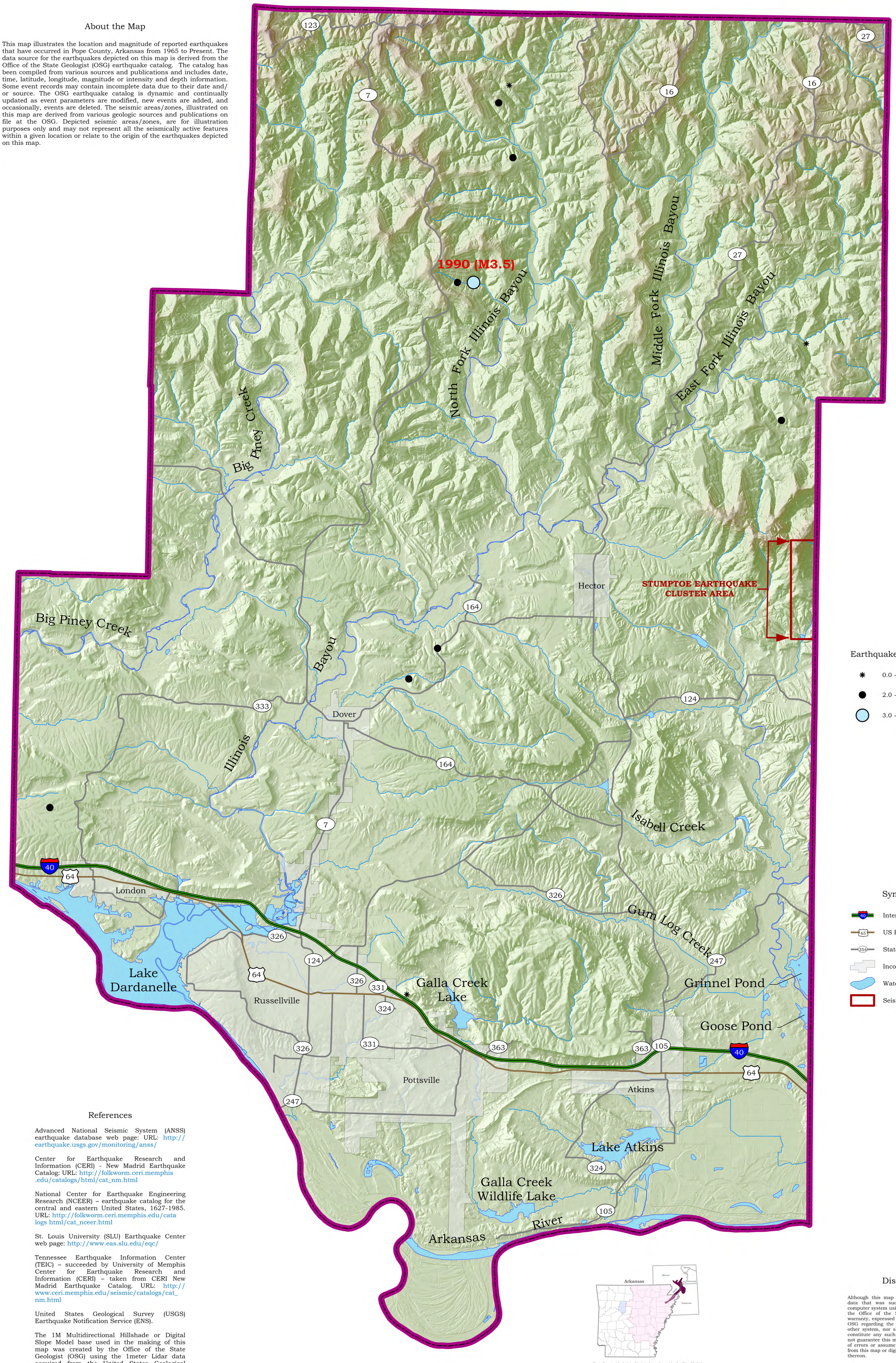
Office of the State Geologist
Scott Ausbrooks, Director and State Geologist

Pope County Seismicity Map

About the Map

This map illustrates the location and magnitude of reported earthquakes that have occurred in Pope County, Arkansas from 1965 to Present. The data source for the earthquakes depicted on this map is derived from the Office of the State Geologist (OSG) earthquake catalog. The catalog has been compiled from various sources and publications and includes date, time, latitude, longitude, magnitude or intensity and depth information. Some event records may contain incomplete data due to their date and/or source. The OSG earthquake catalog is dynamic and continually updated as event parameters are modified, new events are added, and occasionally, events are deleted. The seismic areas/zones, illustrated on this map are derived from various geologic sources and publications on file at the OSG. Depicted seismic areas/zones, are for illustration purposes only and may not represent all the seismically active features within a given location or relate to the origin of the earthquakes depicted on this map.



Earthquake Magnitudes

- 0.0 - 1.9
- 2.0 - 2.9
- 3.0 - 3.9

Symbols

- Interstate
- US Highways
- State Highways
- Incorporated Areas
- Water
- Seismic Areas / Zone

References

Advanced National Seismic System (ANSS) earthquake database web page: URL: http://earthquake.usgs.gov/monitoring/anss/

Center for Earthquake Research and Information (CERI) - New Madrid Earthquake Catalog: URL: http://folkworm.ceri.memphis.edu/catalogs/html/cat_nm.html

National Center for Earthquake Engineering Research (NCEER) – earthquake catalog for the central and eastern United States, 1627-1985. URL: http://folkworm.ceri.memphis.edu/catalogs html/cat_nceer.html

St. Louis University (SLU) Earthquake Center web page: http://www.eas.slu.edu/eqc/

Tennessee Earthquake Information Center (TEIC) – succeeded by University of Memphis Center for Earthquake Research and Information (CERI) – taken from CERI New Madrid Earthquake Catalog. URL: http://www.ceri.memphis.edu/seismic/catalogs/cat_nm.html

United States Geological Survey (USGS) Earthquake Notification Service (ENS).

The 1M Multidirectional Hillshade or Digital Slope Model base used in the making of this map was created by the Office of the State Geologist (OSG) using the 1meter Lidar data acquired from the United States Geological Survey (USGS).

Pope County (shaded in blue) is located outside the New Madrid seismic zone (NMSZ) catastrophic planning area (shaded in pink), as designated by the Arkansas Department of Emergency Management (ADEM) and also partially in the Stumptoe Earthquake Cluster Areas (red box). The NMSZ is shaded in purple.

Scale

2 1 0 2 4 6 8 10 Miles

2 1 0 2 4 6 8 10 Kilometers

N

Disclaimer

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