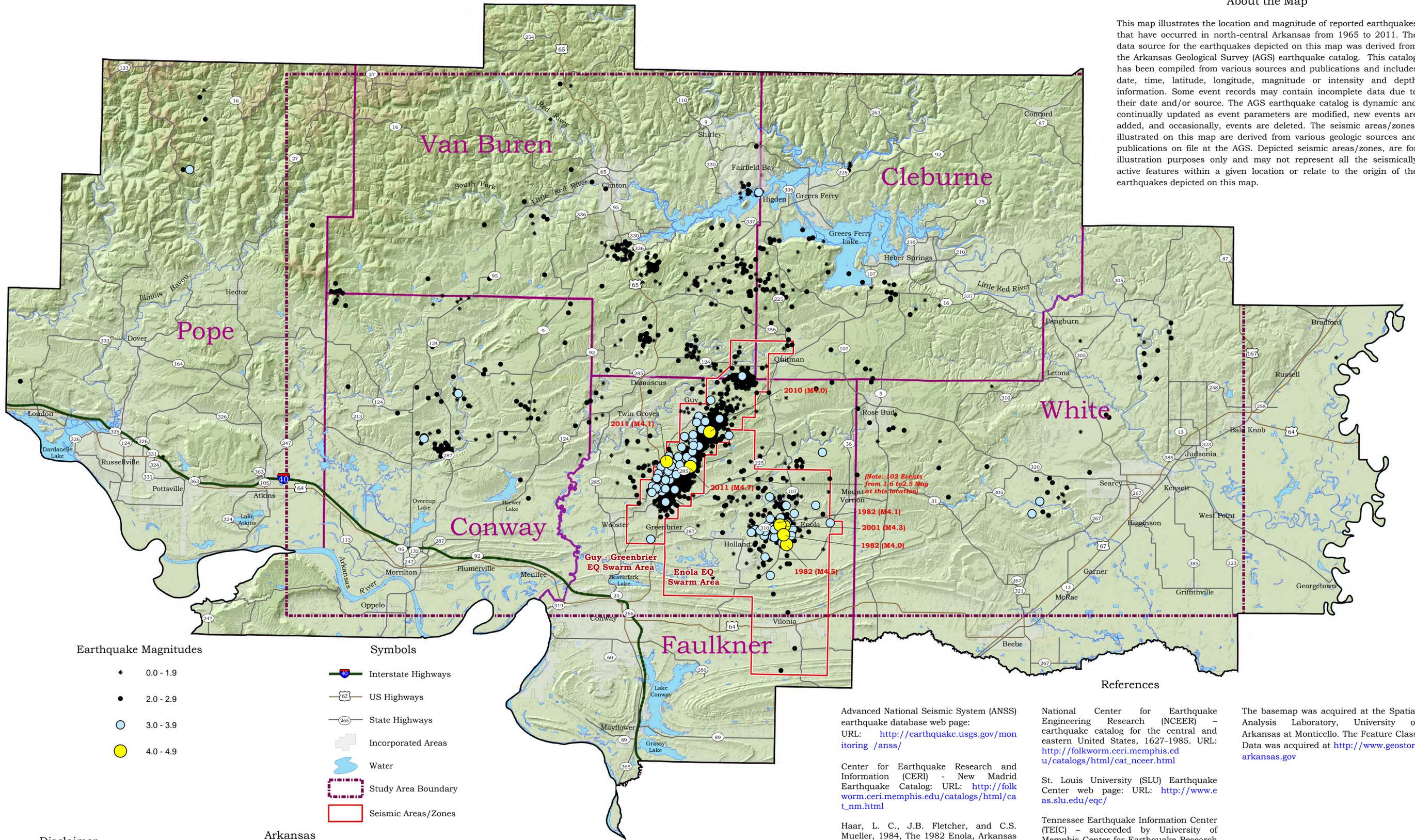




Seismicity of North-Central Arkansas

About the Map

This map illustrates the location and magnitude of reported earthquakes that have occurred in north-central Arkansas from 1965 to 2011. The data source for the earthquakes depicted on this map was derived from the Arkansas Geological Survey (AGS) earthquake catalog. This 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 AGS 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 AGS. 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
- 4.0 - 4.9

Symbols

- Interstate Highways
- US Highways
- State Highways
- Incorporated Areas
- Water
- Study Area Boundary
- Seismic Areas/Zones

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://folk.worm.ceri.memphis.edu/catalogs/html/cat_nm.html

Haar, L. C., J.B. Fletcher, and C.S. Mueller, 1984, The 1982 Enola, Arkansas swarm and scaling of ground motion in the eastern United States: Bulletin of the Seismological Society of America V. 74, N. 6, p. 2463-2482.

Johnston, A.C. and A. Metzger, 1982, TEIC Special Report # 8: The central Arkansas earthquake swarm parts 1 & 2, Tennessee Earthquake Information Center.

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

St. Louis University (SLU) Earthquake Center web page: URL: <http://www.eas.slu.edu/eq/>

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

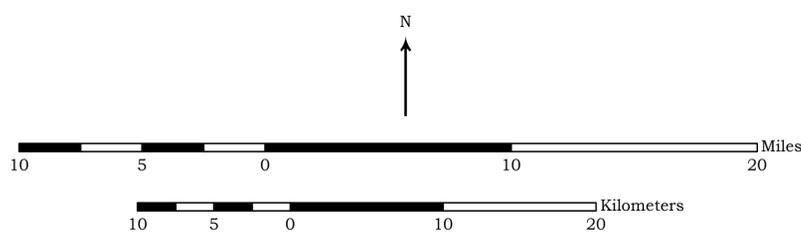
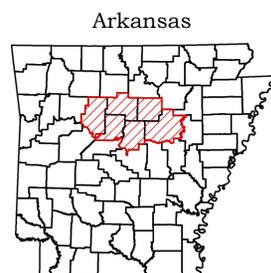
United States Geological Survey (USGS) Earthquake Notification Service (ENS).

The basemap was acquired at the Spatial Analysis Laboratory, University of Arkansas at Monticello. The Feature Class Data was acquired at <http://www.geostor.arkansas.gov>

Disclaimer

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