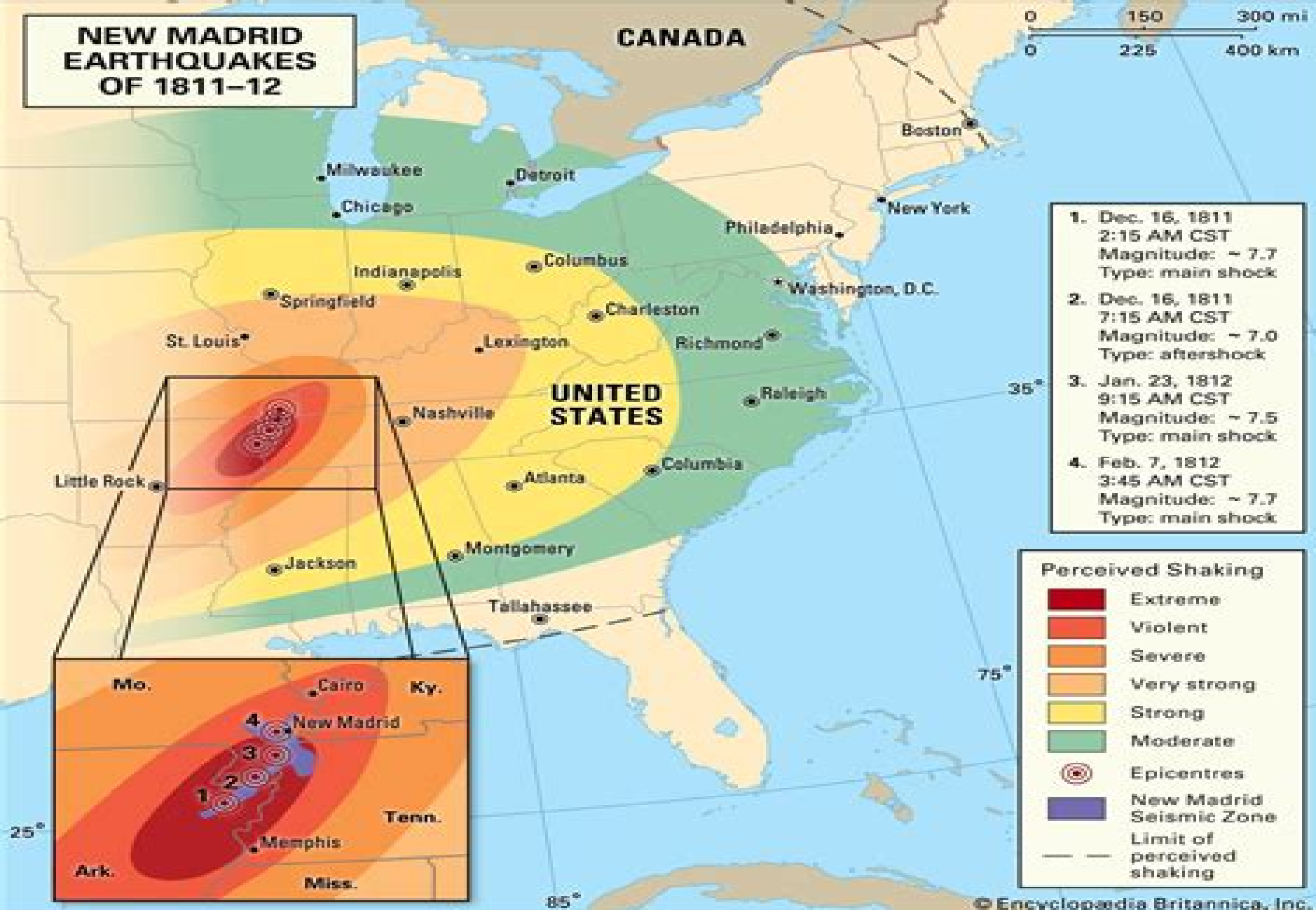


# NEW MADRID EARTHQUAKES OF 1811-12



**Note:** Modern city locations and state boundaries shown.

**Sources:** Magnitude and time of earthquakes from U.S. Geological Survey, Earthquake Hazards Program, "New Madrid 1811-1812 Earthquakes." Perceived shaking information from Otto W. Nuttli, "The Mississippi Valley Earthquakes of 1811 and 1812" (1973); and U.S. Geological Survey.

# New Madrid Earthquake

**Myron L. Fuller**



## **New Madrid Earthquake:**

On Shaky Ground Norma Bagnall, 1996-03 Describes the severe earthquake which changed the course of the Mississippi River in several places destroyed timberlands drained swamps and formed lakes      **The New Madrid Earthquake** Myron L. Fuller, 1993-07 This is an unabridged reprint of the first book and first thorough scientific work ever published on the great New Madrid earthquakes of 1811-12 The winter of 1811-12 experienced the greatest burst of seismic energy in the history of the original 48 states Geologist Myron Fuller spent several years in the field between 1900-1905 scouting the New Madrid fault zone on foot and on horseback mapping the consequences of these giant cataclysms that had so permanently and so profoundly changed the landscape of this region 90 years before Originally published by the U S Geological Survey this book is the starting point for all serious researchers on these world class temblors Foreword to this 1995 printing is by seismologist David Stewart Ph D      *The Lost History of the New Madrid Earthquakes* Conevery Bolton Valencius, 2013-09-25 From December 1811 to February 1812 massive earthquakes shook the middle Mississippi Valley collapsing homes snapping large trees midtrunk and briefly but dramatically reversing the flow of the continent's mightiest river For decades people puzzled over the causes of the quakes but by the time the nation began to recover from the Civil War the New Madrid earthquakes had been essentially forgotten In *The Lost History of the New Madrid Earthquakes* Conevery Bolton Valencius remembers this major environmental disaster demonstrating how events that have been long forgotten even denied and ridiculed as tall tales were in fact enormously important at the time of their occurrence and continue to affect us today Valencius weaves together scientific and historical evidence to demonstrate the vast role the New Madrid earthquakes played in the United States in the early nineteenth century shaping the settlement patterns of early western Cherokees and other Indians heightening the credibility of Tecumseh and Tenskwatawa for their Indian League in the War of 1812 giving force to frontier religious revival and spreading scientific inquiry Moving into the present Valencius explores the intertwined reasons environmental scientific social and economic why something as consequential as major earthquakes can be lost from public knowledge offering a cautionary tale in a world struggling to respond to global climate change amid widespread willful denial Engagingly written and ambitiously researched both in the scientific literature and the writings of the time *The Lost History of the New Madrid Earthquakes* will be an important resource in environmental history geology and seismology as well as history of science and medicine and early American and Native American history      *The New Madrid Earthquake* Myron L. Fuller, 1992      *The New Madrid Fault Finders Guide* Ray Knox, David Stewart, 1995 The most active earthquake zone in North America outside of the West Coast lies along the Mississippi Ohio River Valleys between Arkansas Tennessee Missouri Kentucky Illinois and Indiana Even now more than 300 little earthquakes occur there every year some felt most only recorded on seismographs and an occasional tremor that causes damage This seismic zone is known as The New Madrid Fault The actual fault zone stretches from Marked tree Arkansas to Evansville Indiana but actually extends through Indiana

Ohio Lake Ontario and northeastward up the St Lawrence Seaway The most active portion of the New Madrid Fault is named for a town in Missouri that was obliterated by the earthquakes of 1811 12 It is a zone about 50 miles wide and 150 miles long within which more than 2 000 earthquakes occurred between December 16 1811 and May 25 1812 The New Madrid Earthquakes of 1811 12 were the greatest burst of seismic energy released in the history of the United States Felt throughout all of the States east of the Rocky Mountains these cataclysms damaged wine vats in Virginia rang church bells in Boston rattled dishes and windows in Quebec Canada and were felt from Cuba to Mexico The region surrounding New Madrid in southeast Missouri was devastated People were swallowed alive while houses barns and silos sank into the ground Rivers changed their courses and 12 new lakes were formed two of which are still present to this day Five whole towns disappeared while thousands of Native Americans were drowned in their villages as the land sank and river banks caved in The earthquakes destroyed the landscape itself leaving permanent scars in the fields and hills still visible today 200 years after the shaking stopped Streams were rerouted lakes and swamps were formed huge crevasses opened landslides rolled down hillsides huge craters were formed as groundwater and air exploded from beneath while vast areas turned into quicksand during the shaking while tons of sand and water boiled to the surface Hundreds of these earthquake features are still visible in the landscape today This book is a set of seven field trips you can take to experience the turbulence of the land of that tumultuous time The book contains a geologic history of the area along with many photographs plus maps and detailed road logs of each trip Each trip includes commentary by the authors Dr Ray Knox and Dr David Stewart who are your personal field guides on the tours The book itself provides a vicarious visit to the area even if you never get to physically be there For those who take the actual tours by a visit to the New Madrid Historical Museum you may obtain signatures validating your travels This earns you an impressive certificate validating your status as a Certified Fault Finder If you are really fortunate you may even experience a mild shake during your visit There has never been a natural cataclysm in North America like the New Madrid Earthquakes of 1811 12 Through this book you will see where the Mississippi River ran backwards and where for a time the land surface rippled like the waves of an ocean changing the face of the earth forever

*Investigations of the New Madrid, Missouri, Earthquake Region* Geological Survey (U.S.),1982      *The New Madrid Earthquakes* James L. Penick,1981 Previously published as *The New Madrid earthquakes of 1811 1812*      *The New Madrid Earthquake* Arthur Clay Magill,2001-03-01 The New Madrid Earthquake was among the great earthquakes of known history affecting the topography more than any other earthquake on the North American continent Judging from their effects they were of a magnitude of 8 0 or higher on the Richter Scale They were felt over the entire United States outside of the Pacific coast Large areas sank into the earth new lakes were formed the course of the Mississippi River was changed and forests were destroyed over an area of 150 000 acres Many houses at New Madrid were thrown down Houses gardens and fields were swallowed up one source notes But fatalities and damage were low because the area was sparsely settled then

Survivors reported that the earthquake caused cracks to open in the earth's surface the ground to roll invisible waves and large areas of land to sink or rise The crew of the New Orleans the first steamboat on the Mississippi which was on her maiden voyage reported mooring to an island only to awake in the morning and find that the island had disappeared below the waters of the Mississippi River Damage was reported as far away as Charleston South Carolina and Washington D C Scientists estimate that the probability of a magnitude 6 to 7 earthquake occurring in this seismic zone within the next 50 years is higher than 90% Such an earthquake could hit the Mississippi Valley at any time

**The Earthquake that Never Went Away** David Stewart, Ray Knox, 1993 150 original photos figures tables on the New Madrid Seismic Zone of faults fissures scars in the landscape still visible from the great earthquakes of 1811-12 and how they still affect you today

**The Next New Madrid Earthquake** William Atkinson, 1989 Scientists who specialize in the study of Mississippi Valley earthquakes say that the region is overdue for a powerful tremor that will cause major damage and undoubtedly some casualties The inevitability of a future quake and the lack of preparation by both individuals and communities provided the impetus for this book Atkinson brings together applicable information from many disciplines history geology and seismology engineering zoology politics and community planning economics environmental science sociology and psychology and mental health to provide the most comprehensive perspective to date of the myriad impacts of a major earthquake on the Mississippi Valley Atkinson addresses such basic questions as What actually are earthquakes How do they occur Where are they likely to occur Can they be predicted perhaps even prevented He also addresses those steps that individuals can take to improve their chances for survival both during and after an earthquake

The New Madrid Earthquakes of 1811-1812 James L. Penick, 1964

*The New Madrid Quake Chronicles* Claude Walker, 2011-12-07 In December 1811 a series of quakes rocked the area near New Madrid Missouri a settlement on the Mississippi River Sparsely populated by French fur traders a dwindling number of Native Americans and newly arrived European immigrants the region rumbled for weeks Rivers ran backwards Gaseous crevasses in the earth gaped swallowing people and buildings While *The New Madrid Quake Chronicles* is a story of a natural calamity it is also a parable about the imprint a disaster can leave on any family for generations The reader meets survivors of the Great Quake from two great families headed by Shawnee leader Blue Turtle and German exile Blas Baur whose descendants share special quake sensing abilities Their stories are lyrically told mighty rivers meeting mightier tectonic plates clashing Historical fiction family saga and military political history with a touch of seismic sci fi *The New Madrid Quake Chronicles* is a cautionary tale If an 1811 sized quake hit New Madrid today an estimated 3 500 residents would die It would leave 730 000 homeless and 2.6 million without power Most bridges over the Mississippi and Ohio Rivers would fall Experts agree that a big one will likely strike again in the New Madrid Seismic Zone how prepared will we be

From New Madrid to Claverack James W. Sherby, 2009 When the earthquakes of 1811-1812 hit the New Madrid fault along the border of Spanish and French settled St Louis the Mississippi River changed not only its course but also many lives

Due to the disaster the state border between Missouri and Illinois shifted so that acres of Missouri property had switched to the Illinois side of the newly coursed river Those who lost their land were subsequently issued certificates to claim unincorporated land westward of the river James Sherby tracks certificate number 465 from slavery riddled farmland to St Louis County s most highly valued property Claverach The development of this Clayton Missouri neighborhood and the lives that it touched up until 1930 are detailed in this narrative along with a rich collection of photographs illustrating Claverach s rich history

**The New Madrid Earthquake** Garland Carr Broadhead,1902      **Assessing the Felt Reports of the 1811-12 New Madrid Earthquakes in the Central United States** Ronald L. Street,John D. Kiefer,Jerry Raisor,Kentucky Geological Survey,2008 The damage and felt reports describing the New Madrid Mo earthquakes of 1811 12 need to be assessed in the historical context in which the events occurred Log cabins in the frontier settlements along the lower Ohio River Valley for example were built with a rudimentary form of base isolation and their response to the earthquakes should not be evaluated in the same way that a modern wood frame or brick building would be Also inaccuracies have crept into the databases used for estimating the epicenters and magnitudes of the earthquakes For example the magnitude of the December 16 1811 earthquake has been based in part on the lack of damage to buildings built well after the occurrence of the 1811 12 events and the locations and circumstances of some of the people who described their observations of earthquakes and aftershocks in December 1811 while traveling down the Mississippi River on flatboats have been incorrectly used to estimate modified Mercalli intensities This study indicates that the damage areas for the 1811 12 earthquakes have been underestimated and favors an epicenter for the January 23 1812 earthquake in the northern end of the New Madrid Fault Zone and that the three aftershocks that some have suggested were triggered events centered in northeastern Kentucky or south central Ohio were in fact centered in the New Madrid Seismic Zone      *The Earthquake America Forgot* Norman Reiss,David Stewart,Ray Knox,2005-02-07 Scientifically and historically describes the New Madrid Missouri earthquakes of 1811 1812 and provides valuable information in the event of an earthquake today      **Tecumseh's Prophecy** Geological Survey (U.S.),1990 A plan for an intensified study of the New Madrid Seismic Zone      New Madrid Earthquake of 1811-1812 , Presents information about the New Madrid Earthquake of 1811 1812 compiled by Chad Richards a student of the Arkansas School for Mathematics and Sciences in Hot Springs Offers access to a bibliography eyewitness accounts graphics newspaper accounts      **Earthquake Risk And Damage Functions** Ben-Chieh Liu,1981-06-15      Disaster Deferred Seth Stein,2010 Coinciding with the 200th anniversary of the New Madrid earthquakes of 1811 12 Disaster Deferred revisits these earthquakes the legends that have grown around them and the predictions of doom that have followed in their wake Seth Stein clearly explains the techniques seismologists use to study Midwestern quakes and estimate their danger

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