2.8 Mag. Earthquake, Narrows, Virginia - 7/14/2021

M 2.8 - 10 km S of Narrows, Virginia



Administrative Region

ISO USA	
Region	
Virginia Country	
United States	
Nearby Places	
Narrows, Virginia, United States 10.2 km (6.3 mi) N	Population: 1953
Radford, Virginia, United States 25.1 km (15.6 m) ESE	Population: 17403
Bluefield, West Virginia, United States 35.4 km (22 mi) W	Population: 10323
Blacksburg, Virginia, United States 36.3 km (22.6 mi) E	Population: 44215
Charleston, West Virginia, United States 142.3 km (88.4 m) NNW	Population: 49736

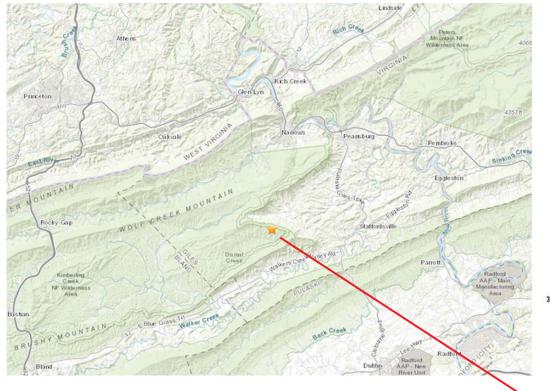
Since at least 1828, people in the Giles County seismic zone of southwestern Virginia and adjacent West Virginia have felt small earthquakes and suffered damage from infrequen arger ones. The largest damaging earthquake (magnitude 5.9) in the seismic zone occurred in 1897. Smaller, slightly damaging earthquakes occur at variable intervals, but in the decades apart. Still smaller earthquakes that cause no damage are felt once or twice a decade in the seismic zon

Earthquakes in the central and eastern U.S., although less frequent than in the western U.S., are typically felt over a much broader region. East of the Rockies, an earthquake car be felt over an area as much as ten times larger than a similar magnitude earthquake on the west coast. A magnitude 4.0 eastern U.S. earthquake typically can be felt at many places as far as 100 km (60 mi) from where it occurred, and it infrequently causes damage near its source. A magnitude 5.5 eastern U.S. earthquake usually can be felt as far as 500 km (300 mi) from where it occurred, and sometimes causes damage as far away as 40 km (25 mi)

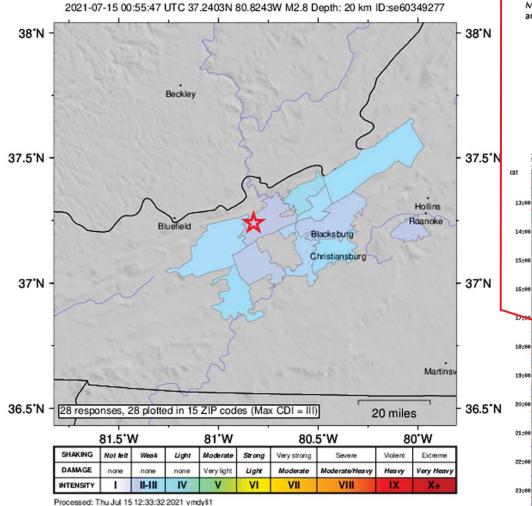
Earthquakes everywhere occur on faults within bedrock, usually miles deep. Most bedrock beneath southwestern Virginia and adjacent West Virginia was continent about 500-300 million years ago, raising the Appalachian Mountains

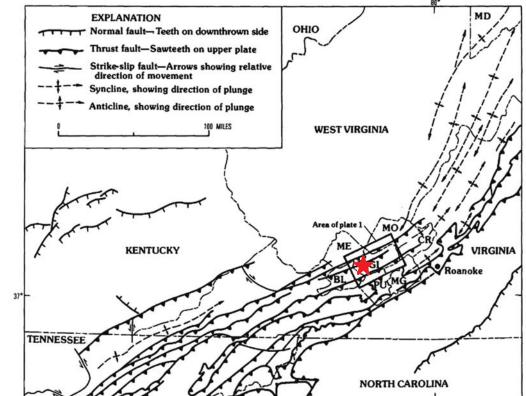
ate boundaries like the San Andreas fault system in California, often scientists can determine the name of the specific fault that is r nsible for an earth In contrast, east of the Rocky Mountains this is rarely the case. The Giles County seismic zone is far from the nearest plate boundaries, which are in the center of the Atlantic Ocean and in the Caribbean Sea. The seismic zone is laced with known faults but numerous smaller or deeply buried faults remain undetected. Even the known faults are poorly cated at earthquake depths. Accordingly, few, if any, earthquakes in the seismic zone can be linked to named faults. It is difficult to determine if a known fault is still active and ise an earthquake. As in most other areas east of the Rockies, the best guide to earthquake hazards in the seismic zone is the earthquakes t

Small (2.8 Mag.), deep (20 Km) quake not felt in West Virginia.



USGS Community Internet Intensity Map VIRGINIA





area of plate 1 is also shown.

Figure 2. Regional structural setting of the Giles County area of Virginia and West Virginia. Counties, West Virginia: ME, Mercer; MO, Monroe. Counties, Virginia: BL, Bland; CR, Craig; GI, Giles; MG, Montgomery; PU, Pulaski. Location of

No reports from West Virginia but strong response on Beckley, WV seismic station.

