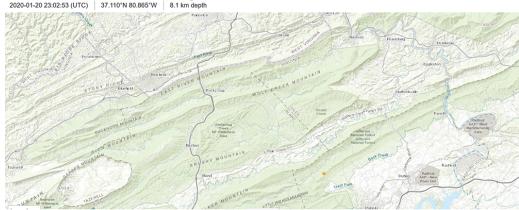
# 2.3 Mag. Quake, Pulaski, Virginia - 1/20/2020

# M 2.3 - 10km NW of Pulaski, Virginia



Nearby Places	
Pulaski, Virginia, United States 10.2 km (6.4 mi) SE	Population: 8890
Radford, Virginia, United States 25.7 km (16 mi) E	Population: 17403
Bluefield, West Virginia, United States 36.3 km (22.6 m) WNW	Population: 10323
Christiansburg, Virginia, United States 40.5 km (25.2 mi) E	Population: 21943
Charleston, West Virginia, United States 153.5 km (95.4 mi) NNW	Population: 49736
Distance and disadian from enjander to nearby place	

# Tectonic Summary

# tes in the Giles County Seismic Zo

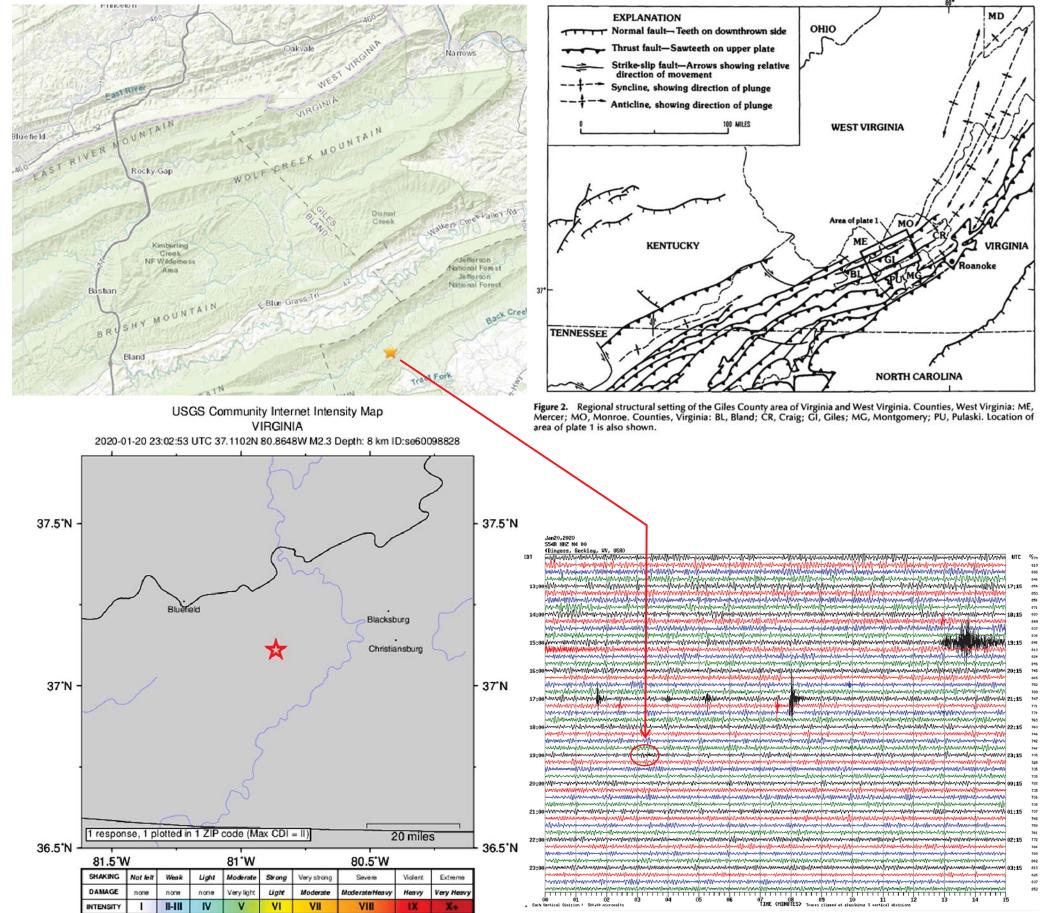
Since at least 1828, people in the Giles County seismic zone of southwestern Virginia and adjacent West Virginia have felt small earthquakes and suffered damage from infrequent The largest damaging earthquake (magnitude 5.9) in the seismic zone occurred in 1897. Smaller, slightly damaging earthquakes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

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 can 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 asse nbled as cont collided to form a supercontinent about 500-300 million years ago, raising the Appalachian Mountains.

At well-studied plate boundaries like the San Andreas fault system in California, often scientists can determine the name of the specific fault that is responsible for an earthquake 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 located 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 could slip and cause an earthquake. As in most other areas east of the Rockies, the best quide to earthquake hazards in the seismic zone is the earthquakes themselves

Small (2.3 Mag.), shallow (8 Km) quake. Reported by 1 person; not felt in West Virginia.



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