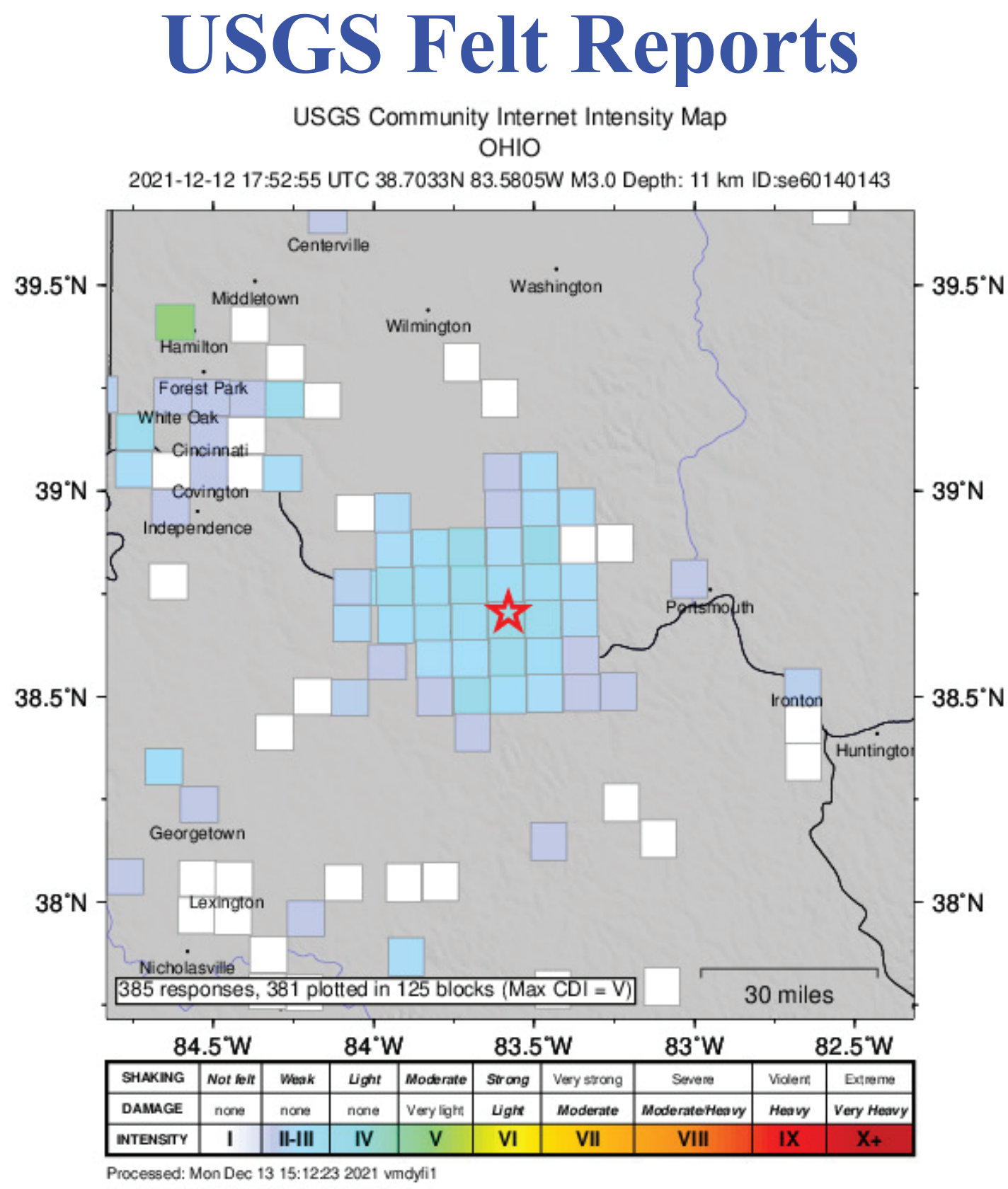


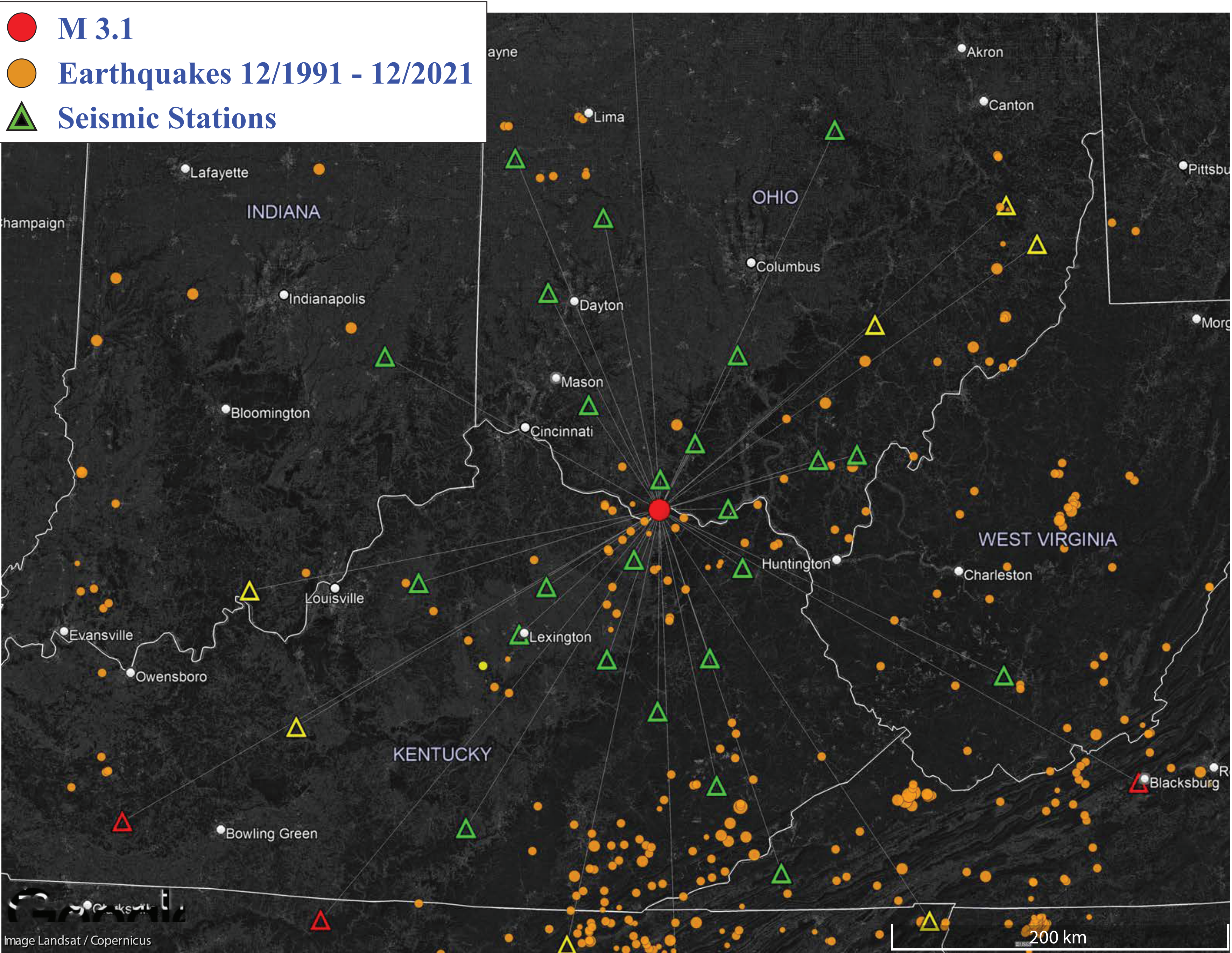
December 12, 2021 Manchester, OH (M 3.1)  
17:52:56 UTC / 12:52:56 (Nov. 10) EST  
University of Kentucky  
Kentucky Seismic and Strong Motion Network



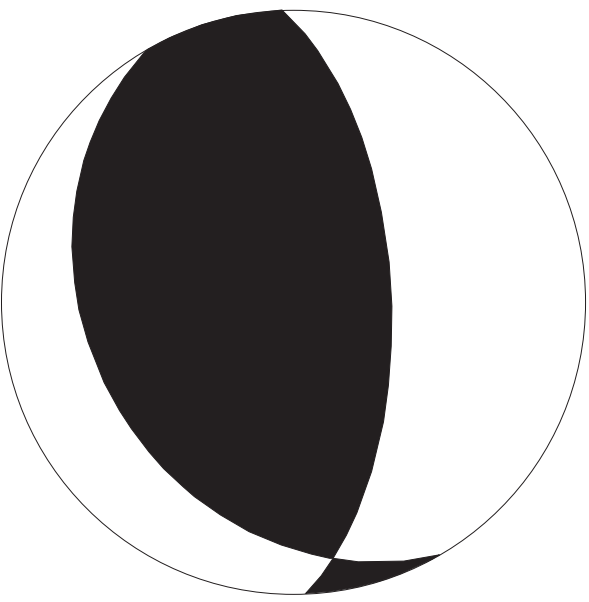
Ground shaking from the December 12, 2021, magnitude 3.1 earthquake that occurred in northern Lewis County, Kentucky, was reportedly felt at distances greater than 200 km away from the epicenter (left).

The earthquake appears to have been caused by oblique thrust faulting on an unknown fault (below, left), approximately 13 km beneath the surface and it occurred in a diffuse zone of earthquake activity that extends from northern Kentucky into southeastern Ohio.

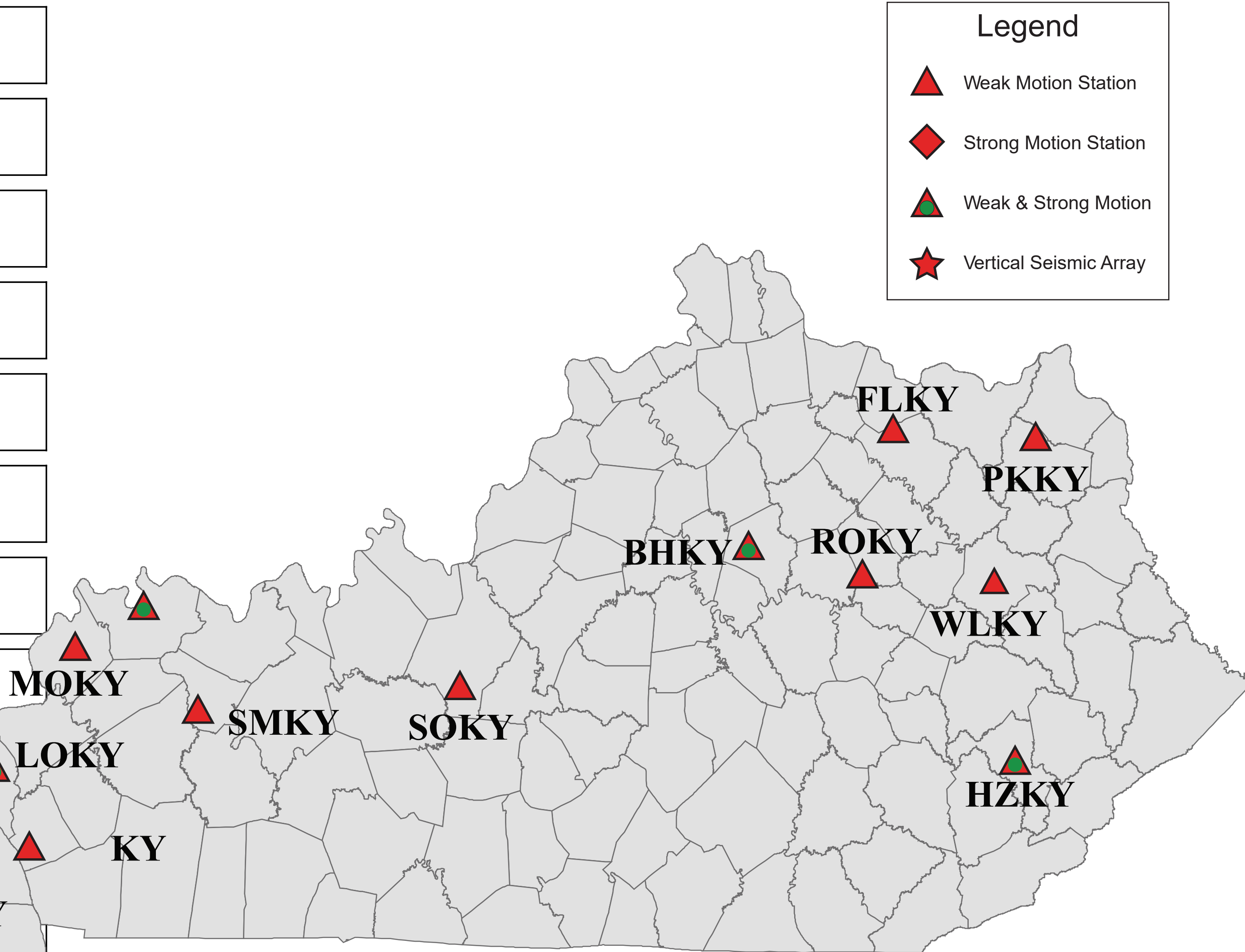
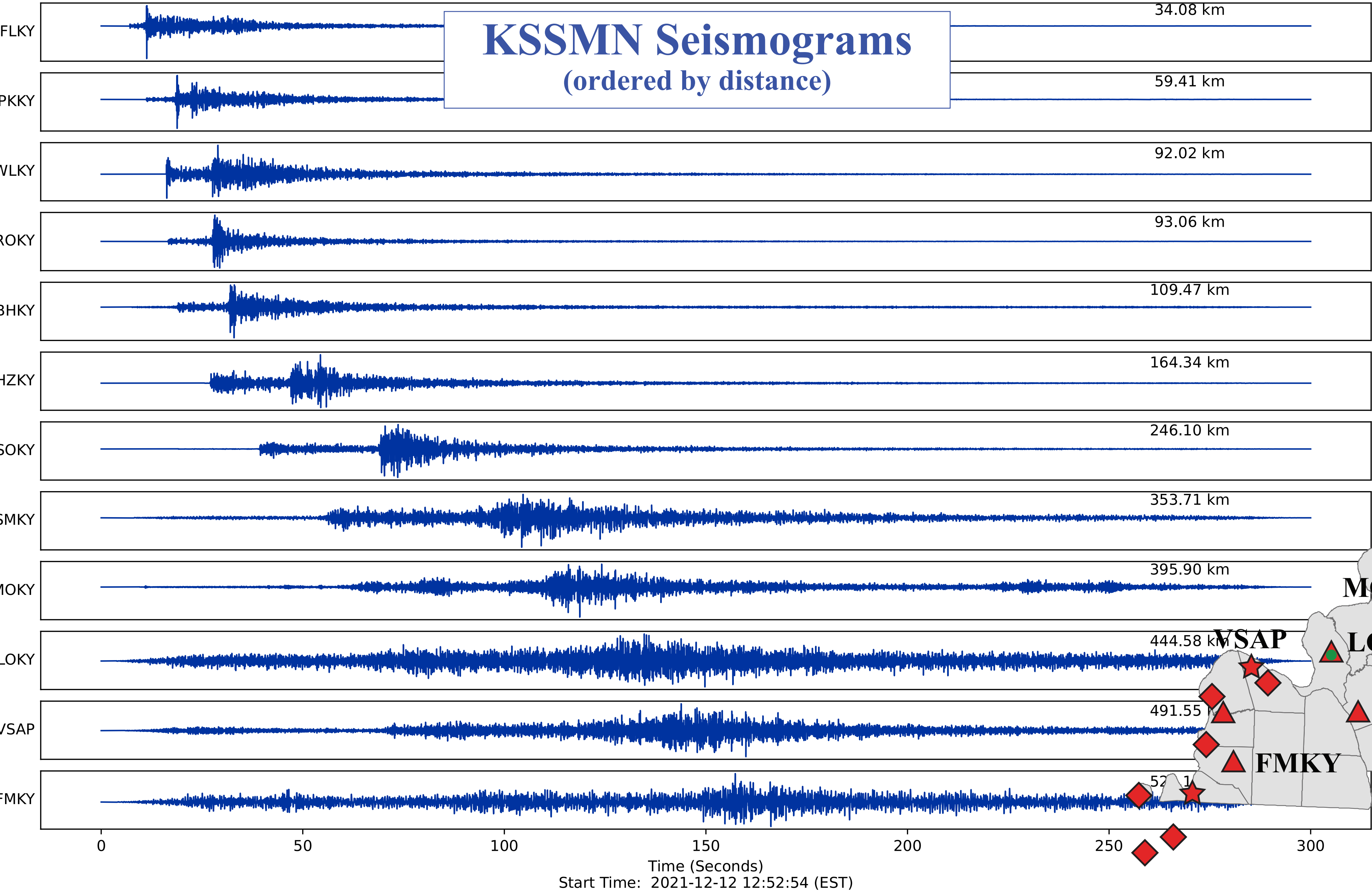
This event was well recorded by seismic stations in the region (right), primarily those operated by the University of Kentucky and by the Ohio Geological Survey.



**KGS Preliminary Source Mechanism**



(Oblique thrust faulting on N- or ESE- striking fault planes)



**KSSMN Seismic Stations**  
(stations with seismograms are labeled by name)