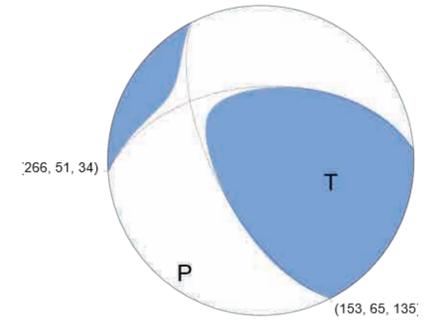
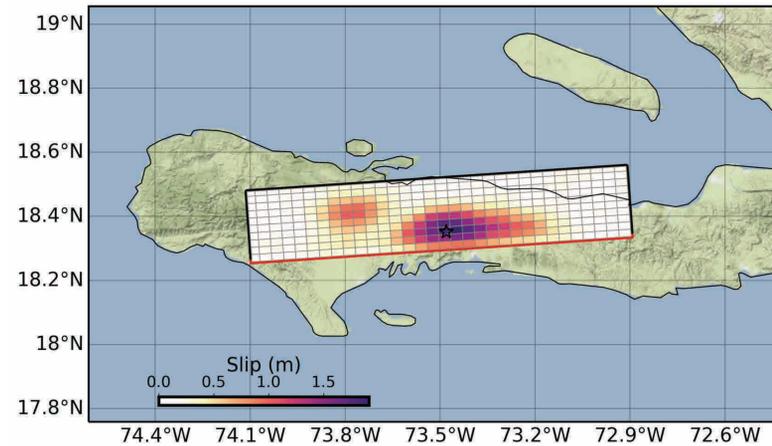
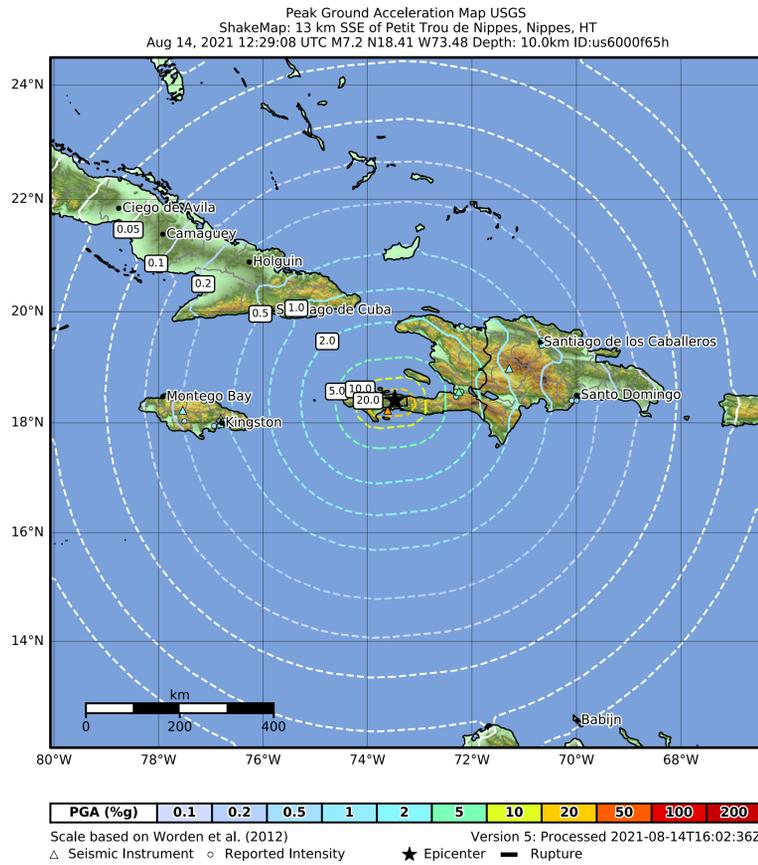


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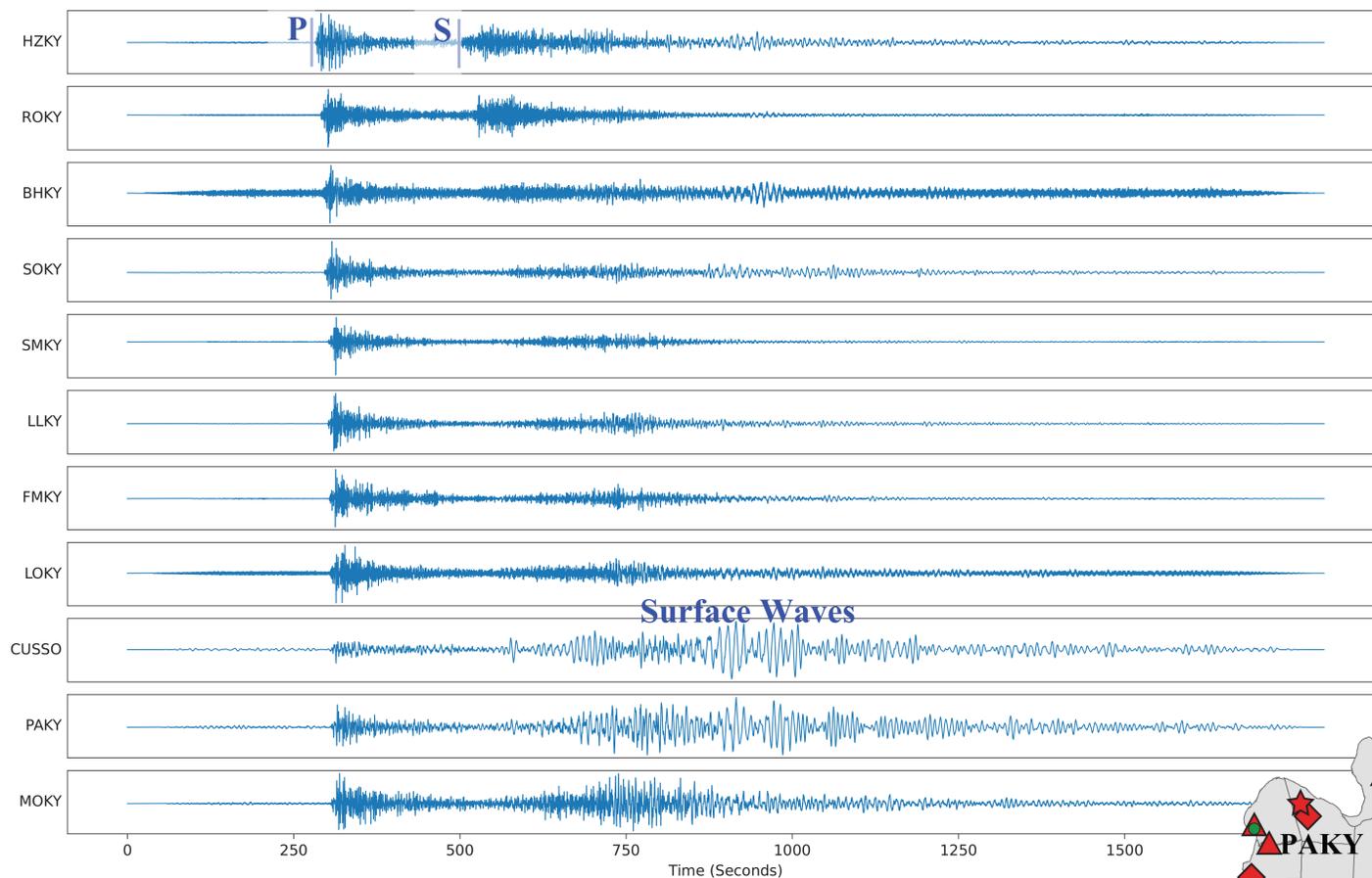
The August 14, 2021 moment magnitude 7.2 earthquake near Petit Trou de Nippes, Haiti, occurred approximately 125 km west of the capital city of Port au Prince and ~75 km west of the devastating moment magnitude 7.0 earthquake that occurred in 2010. The Mw 7.2 earthquake occurred in the Enriquillo-Plantain Garden fault zone, which is associated with the interplate region that accommodates relative motion between the North American and Caribbean tectonic plates.

USGS Source Mechanism

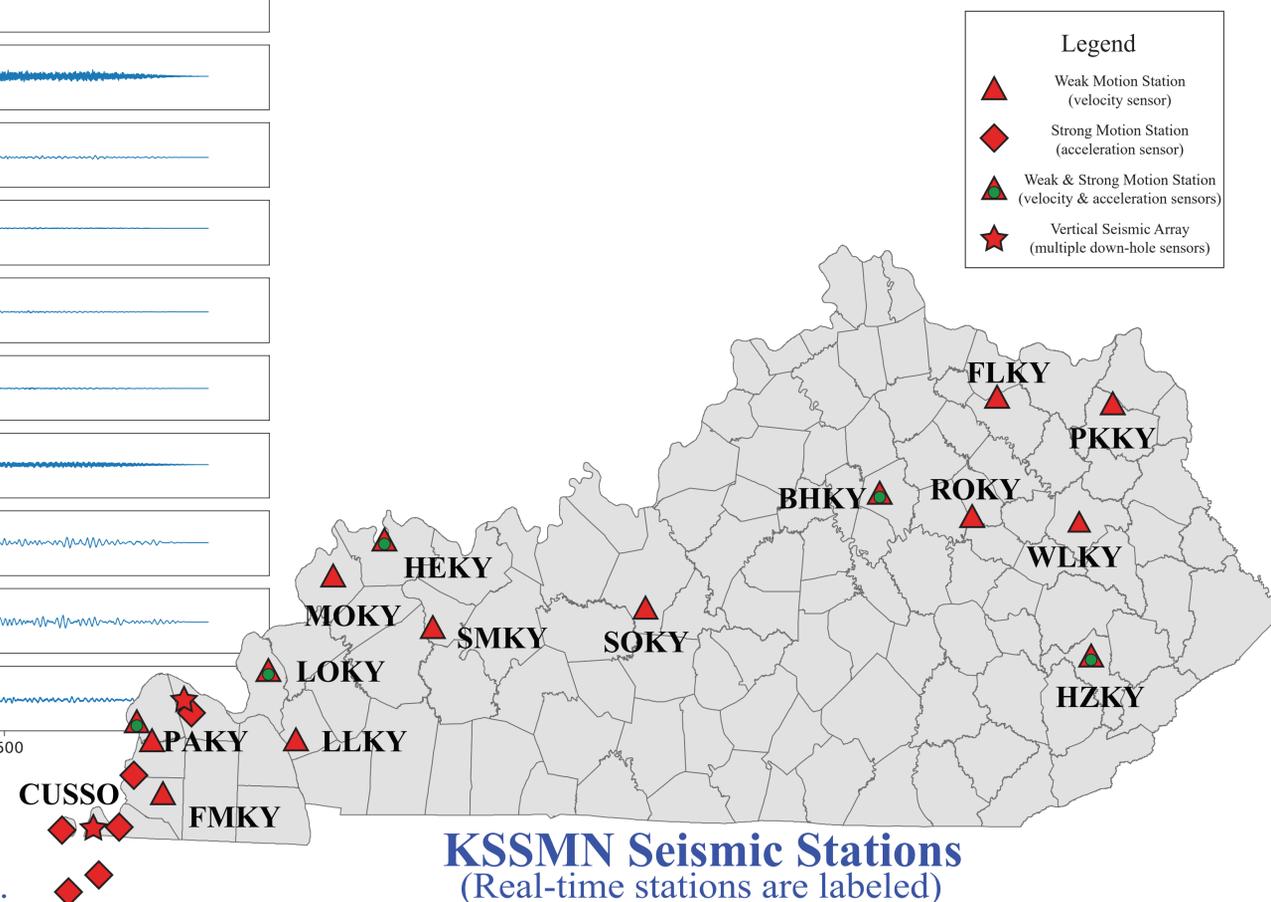


Left: Expected peak ground accelerations in % g (the acceleration due to gravity) around the epicenter (black star). **Right:** This focal mechanism, derived from seismograms, shows that oblique thrust faulting occurred on a southeast- or west-striking fault plane. **Middle:** Faulting model that explains the observed global waveforms. The surface projection of the northward dipping fault plane, whose surface trace is the red line, is shown. Warmer, darker colors indicate increasing magnitude of the slip that occurred along the fault plane; slip of greater than 2.5 m occurred.

KSSMN Seismograms
(~2,400 km away)



“P” and “S” mark the P and S body-wave arrivals, respectively, at monitoring station HZKY in Hazard, Ky. “Surface Waves” labels the large-amplitude, long-period waves that arrive later and are seen on broadband stations.



KSSMN Seismic Stations
(Real-time stations are labeled)