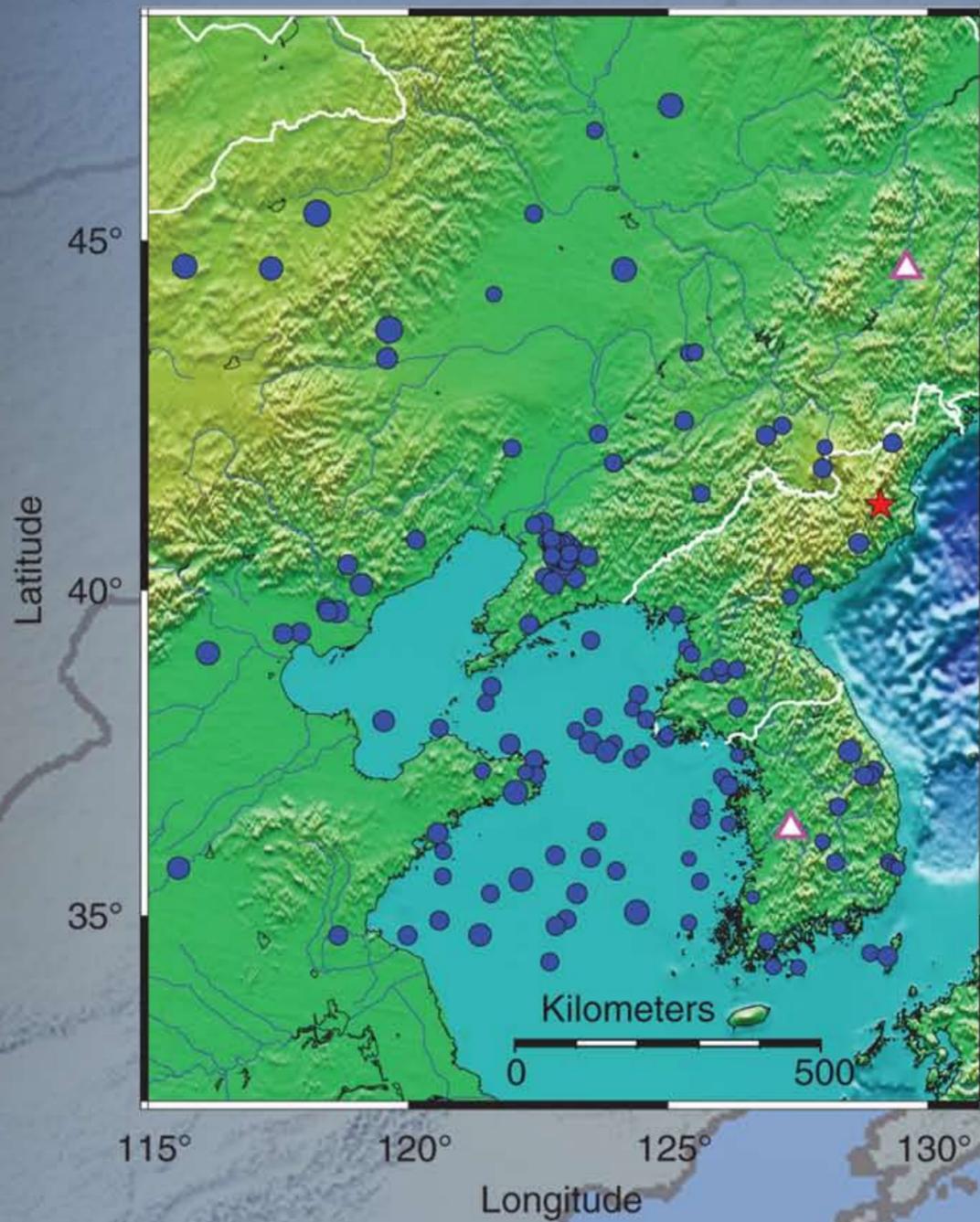
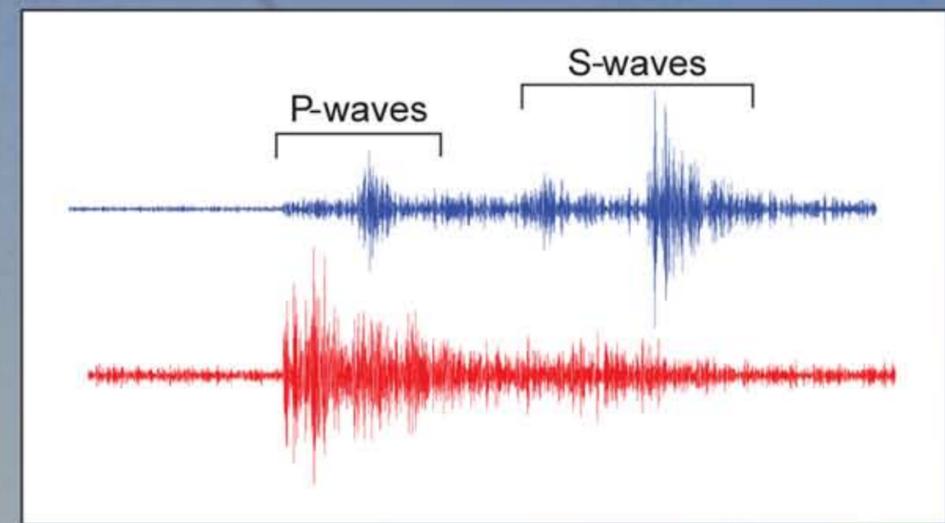


(a)

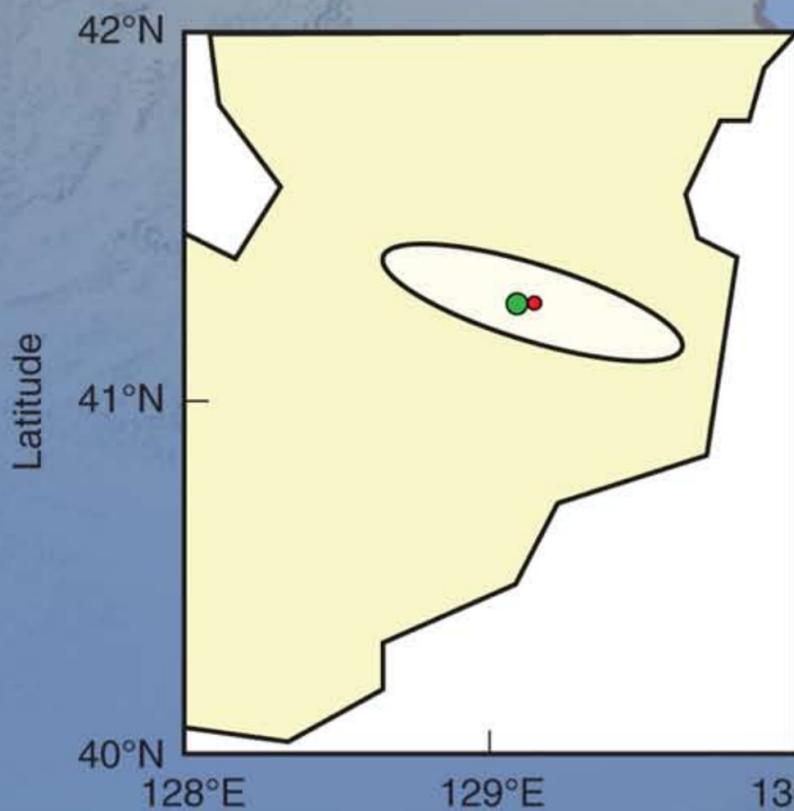


(b)

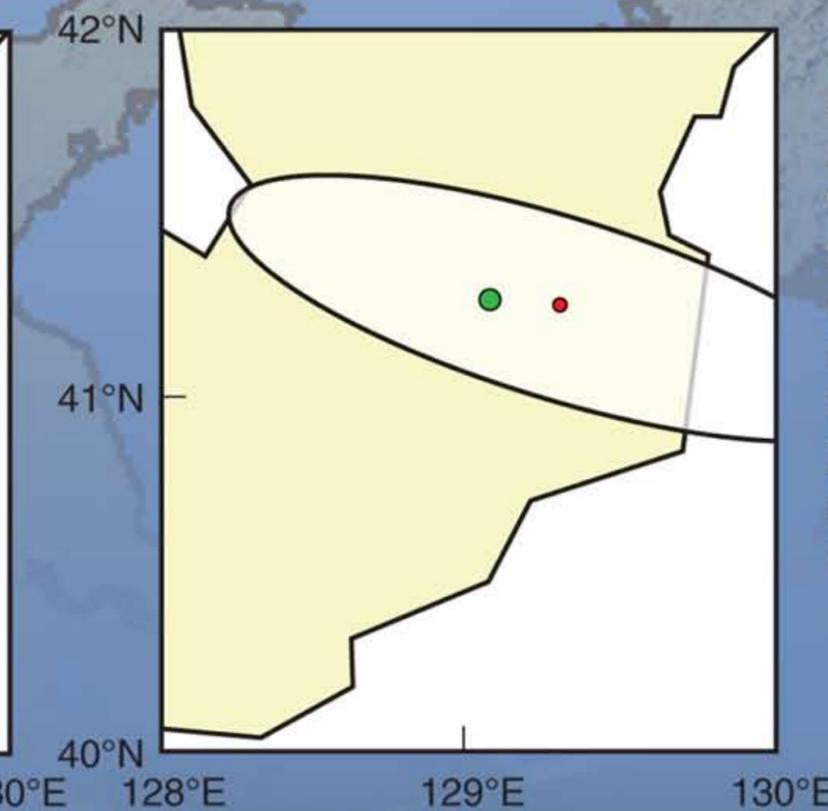


North Korea detonated a nuclear device on October 9, 2006. (a) A map of the region shows the location of the test (red star), nearby earthquakes (blue dots), and seismic monitoring stations (white triangles). (b) Seismograms recorded during the explosion (red wave) and a nearby earthquake (blue wave) show the different seismic patterns produced by these geologic disturbances.

(a)



(b)



(a) A new method developed at Livermore for locating nuclear explosions has proved to be much more accurate than (b) the former global, one-dimensional model. Red dots show the location of the North Korea nuclear test as predicted by each model, and green dots indicate the actual epicenter.