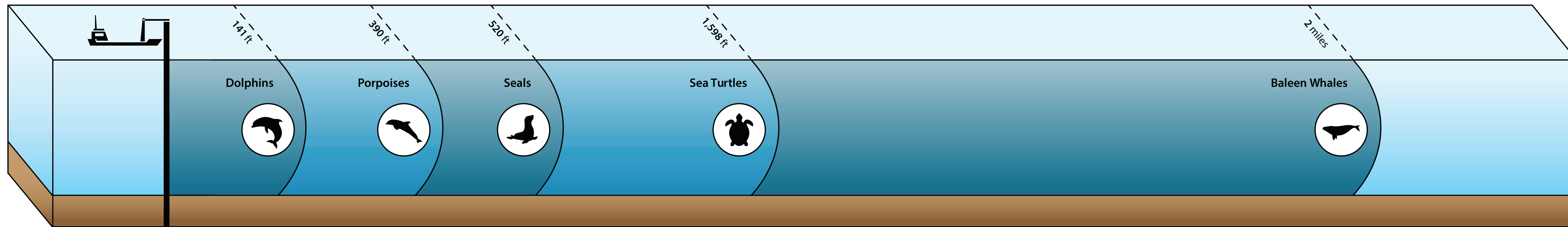


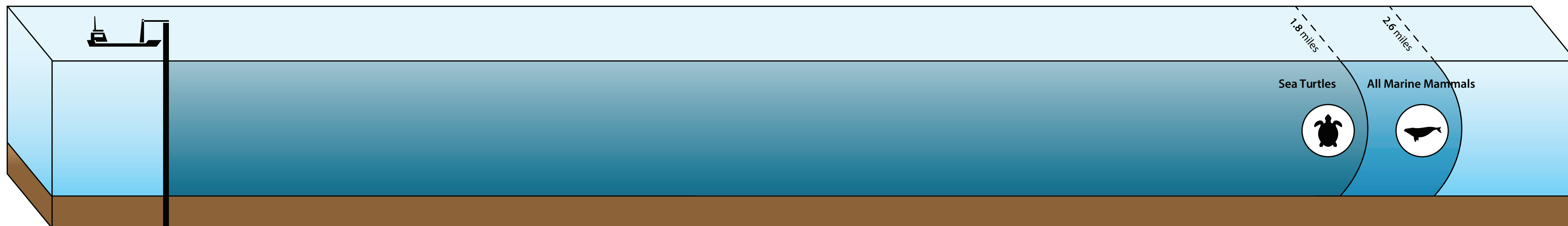


# Impact Distances from Pile Driving Sounds: Monopile Foundations

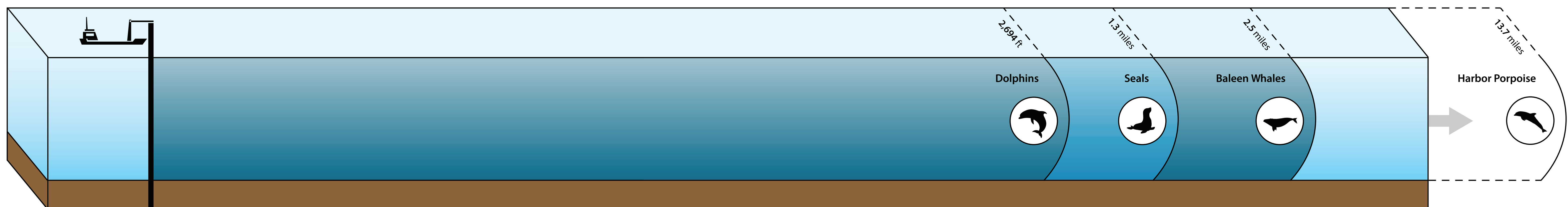
\* Drawings are not to scale.



Maximum distances to underwater **hearing impacts** for marine mammals and sea turtles.



Maximum distances to a **100% adverse behavioral response** for marine mammals (160 dB RMS) and sea turtles (166 dB RMS). Distances not adjusted for hearing sensitivity of animal groups shown.



Distances to a **50% adverse behavioral disturbance** for marine mammals at 160 dB RMS. Distances are adjusted for hearing sensitivity for animal groups shown.