

Round: 8A

Figure 1 shows the relative rates of coastal erosion for the U.S. coastal (marine and Great Lakes) states.

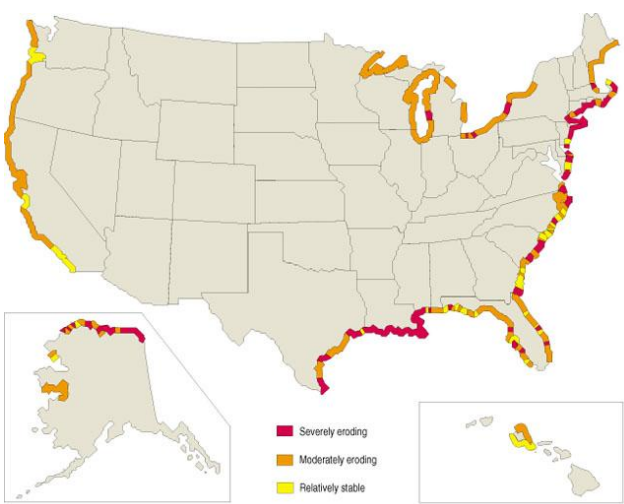


Figure 1: Map showing coastal areas within the United States where coastal erosion takes place.

1. Provide three (3) natural processes and one (1) human-controlled process that affect the rate of shoreline erosion. (4 pts)
2. Find the Hawaiian Islands in Figure 1. What natural process(es) are causing the north side of Oahu to erode while the south side remains relatively stable? (6 pts)
3. You are a real estate developer in New Jersey and you plan to put in a jetty to protect your marina. Are you likely to be sued by coastal communities in Delaware and why? (4 pts)
4. On the diagram below, mark where sand would a) erode and b) accumulate given the direction of longshore transport and a flat seafloor offshore. (6 pts)

