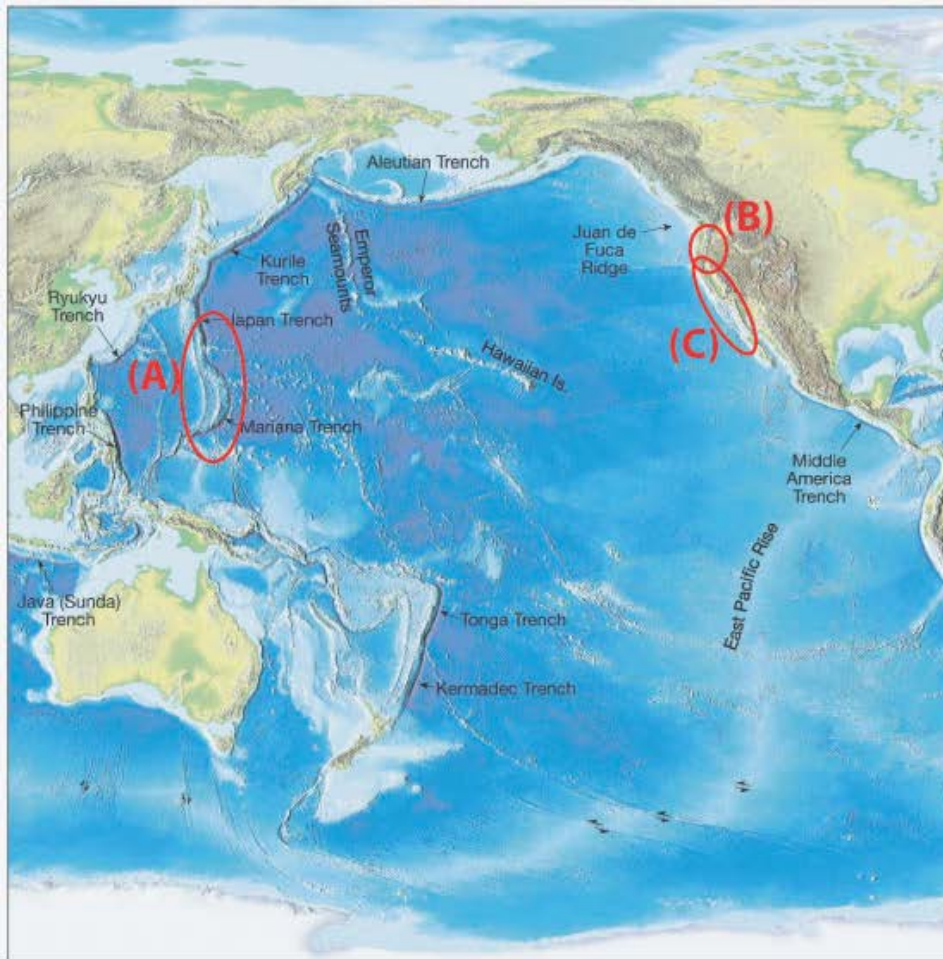


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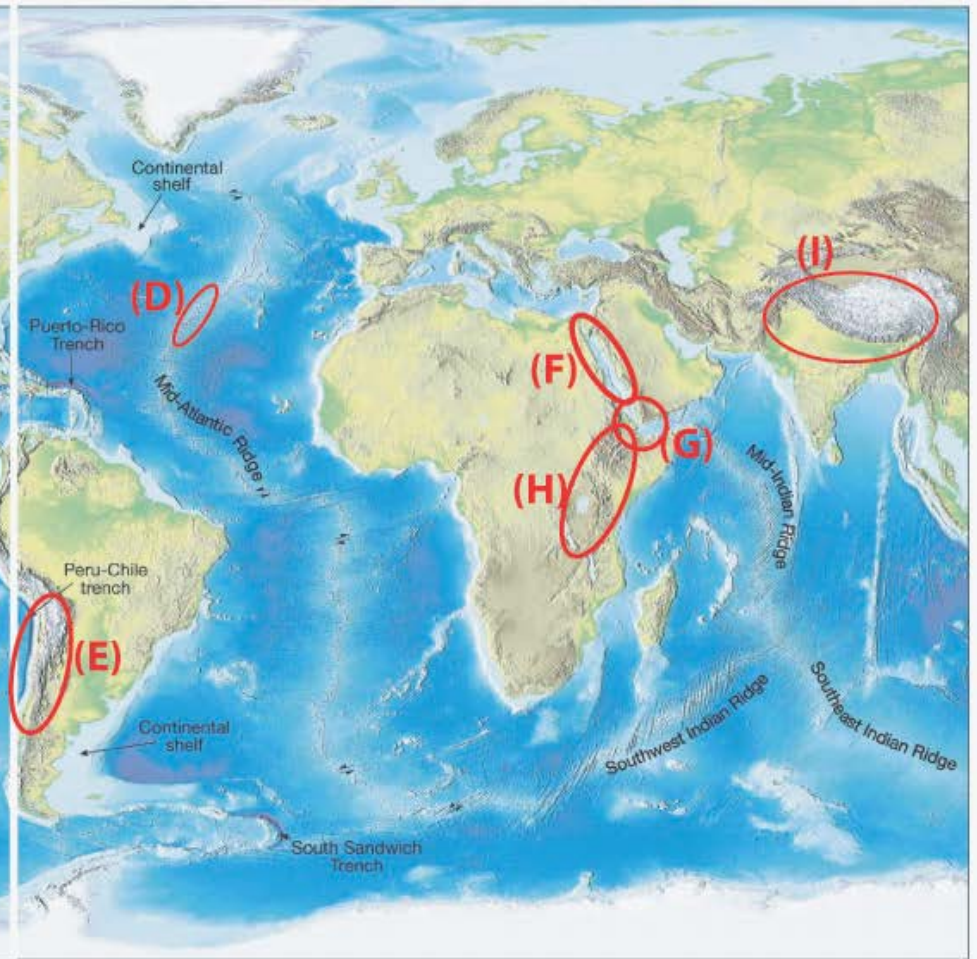
Plate tectonics and earthquakes problem set

Use the geographic features of the world map provided below to answer the following questions for each area circled.

- 1) What two types of crust are interacting at this boundary? (Ocean–Ocean, Ocean–Cont. or Cont.–Cont.)
- 2) Which type of crust on which side of the boundary?
- 3) What type of tectonic boundary is each (extensional, compressional, or transform)
- 4) Describe it tectonically. Is there subduction? Is their rifting? What stage of rifting? Is something else happening?
- 5) What geographic features would you expect to find? (mountains? trenches? volcanoes? grabens? rift valleys? new oceanic crust? triple junctions?)
- 6) What features are on which side of the boundary? (both geographically (east-west-north-south) and tectonically (on top of which crust type))
- 7) Would you expect earthquakes?
- 8) If so, describe them (Small and often or larger and less frequent? Would they be shallow, deep, both, random or systematic?)
- 9) For all of the above, do you know/understand why?



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