Homework Set #A:
Plate Tectonics
Interactive web-interface: [http://deep.ucsd.edu/VisTool/index.html](http://deep.ucsd.edu/VisTool/index.html)

1) Use the interactive map to display a map of the plate tectonic boundaries (e.g., drag Tectonic Plate icon from the green box to the red box, and drag the GoogleMap icon from the tools box to the red box). Using the legend in the lower right of the map as a guide, name the three types of plate tectonic boundaries:
   a. __________________
   b. __________________
   c. __________________

2) Like a puzzle, the surface of the earth is made up of tectonic plates. Using the interactive map, you can learn the name of each tectonic plate by clicking on individual blue markers. List the name of at least 10 of the tectonic plates.
   a. __________________
   b. __________________
   c. __________________
   d. __________________
   e. __________________
   f. __________________
   g. __________________
   h. __________________
   i. __________________
   j. __________________

3) Tectonic plates vary in size, some are big and some are small. Using the interactive map determine:
   a. What is the name of the largest tectonic plate: __________________
   b. What is the name of the smallest tectonic plate: __________________

4) Use the interactive map to display a map of the plate tectonic boundaries and deep earthquakes. Assess the correlation between the location of the deep earthquakes and the tectonic boundaries. Place a check in the box of each TRUE statement below (feel free to check one or more boxes).
   - Deep earthquakes tend to occur near convergent plate boundaries.
   - Deep earthquakes tend to occur near transform plate boundaries.
   - Deep earthquakes tend to occur near divergent plate boundaries.