Mapping the coast along Beach Rd.:

1. The figure above shows the profile of the ground slope as you look East from the bottom of Beach Rd. Complete this diagram by adding in the geologic layers. That is, make it a cross-section (cut-away view) by extending the layers into the slope. Don’t forget to include the present-day sand in your diagram. Use a different symbol or pattern or color for each layer. This will be your “type section”, to use when mapping the rest of the coastal area.

2. Describe each of your layers.
3. What was the order of geologic events here?

4. Using this knowledge of what rocks to expect, and what order to expect to find them in, construct a geologic map of the area. You should walk along the beach toward the east, looking at the rocks that make up the slope as well as any sand and/or rocks that make up the beach. Keep track of your position by paying attention to contour lines (gullies vs. ridges) and any other natural or human-made features that help. Look for someone with a GPS if you get totally lost. Stop when you get to the graffiti-painted concrete bunker.

A little way back west from the bunker, you’ll find a trail up to the road. Take care along this trail because it is sort of narrow, and it is a long drop back to the beach! Keep note of what rocks you’re passing as you walk up the trail.

Once up on the road, map the mauka side of the road from a distance (i.e., don’t cross over the road - it is too dangerous).

Write your name on your map, and turn it in with this worksheet. If you’re in GG103 only, turn it in to your instructor. If you’re in GG101L, turn it in to your TA. If you’re in GG101 only, turn it in to Brian or Greg.

PLEASE BE SAFE!