Round: 6B

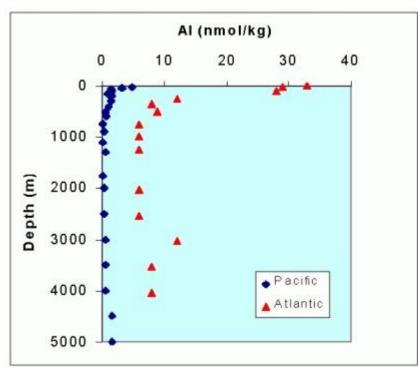
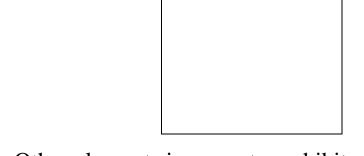


Figure 1: Open ocean vertical profiles of dissolved aluminum in the North Atlantic and North Pacific

- 1. What are the two (2) most likely source of aluminum to surface waters? (4 pts)
- 2. Why are dissolved aluminum concentrations higher in the Atlantic than the Pacific? (2 pts)
- 3. What process causes aluminum concentrations to decrease in the upper 1000 meters of the water? (2 pts)
- 4. What is the most likely explanation for the anomalously high data point at 3000 m in the Atlantic? (2 pts)

5. a. Iron exhibits a nutrient-like vertical profile in the ocean. On the plot below, draw and label the axes for a nutrient-like profile. (5 pts)



b. Other elements in seawater exhibit a conservative element profile. On the plot below, draw and label the axes for a conservative element profile. (5 pts)