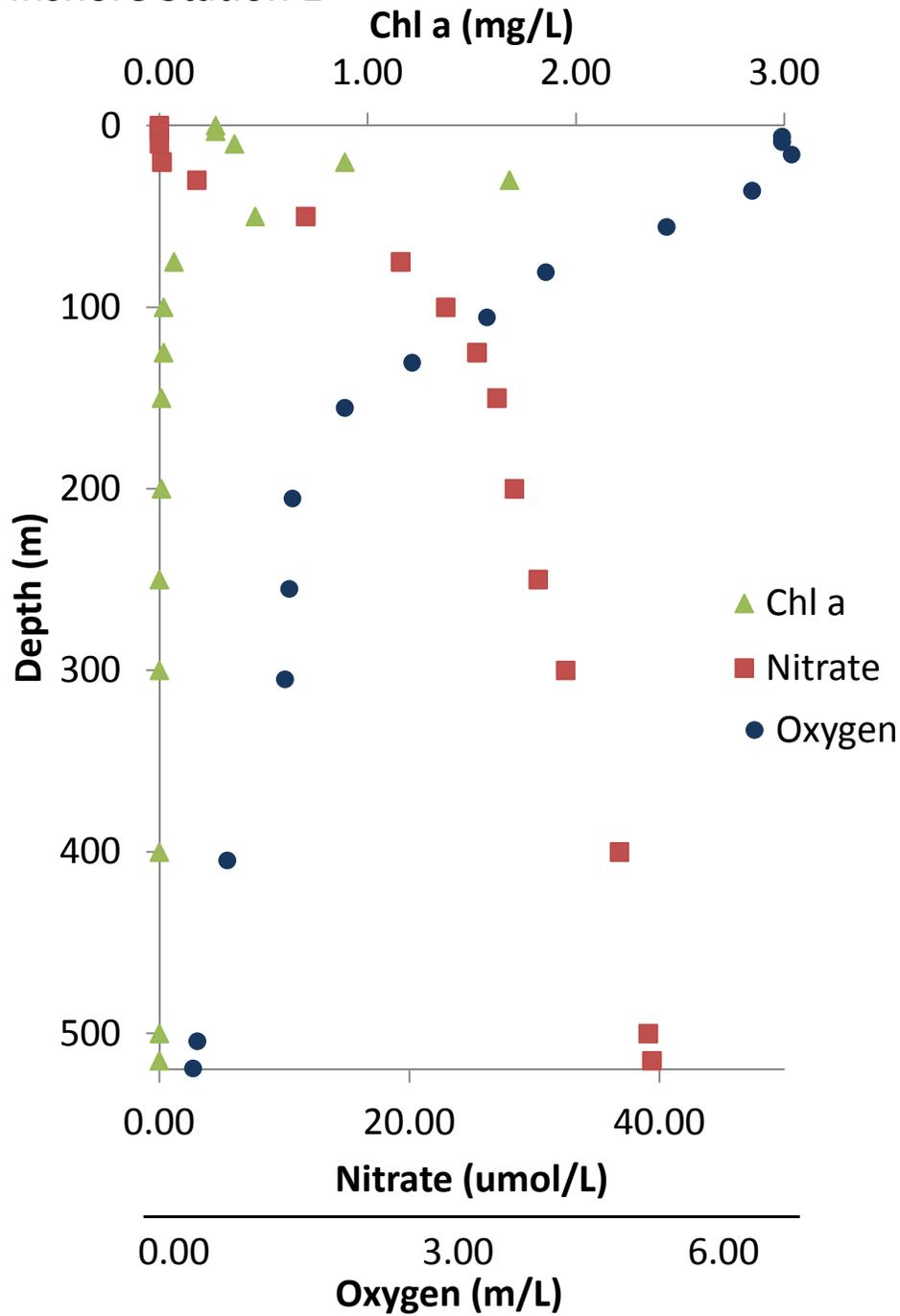
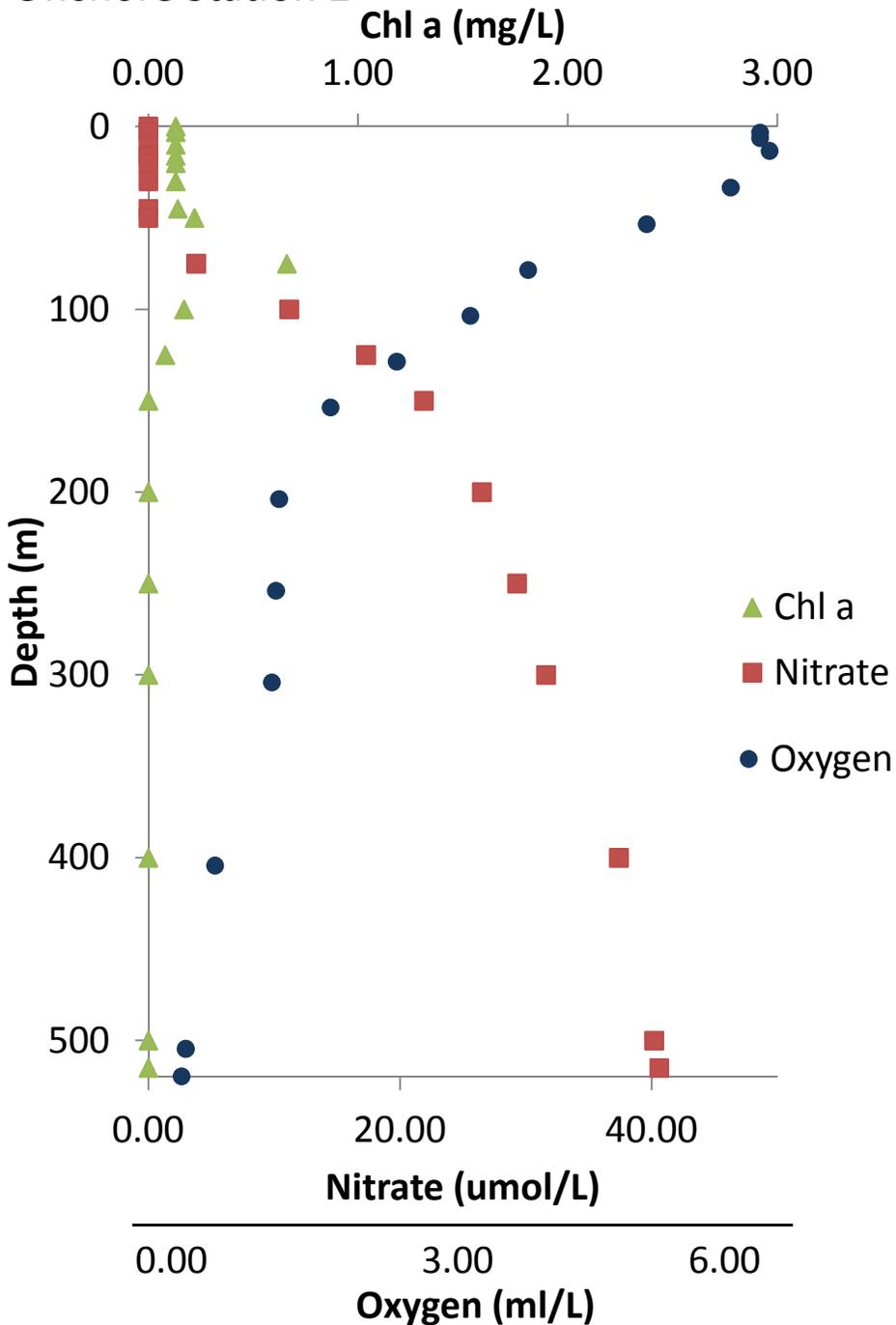


Inshore Station 1



Offshore Station 2



## *What does your oceanography data mean?*

1. Before you look at the tables or the data, what do you think might be different between these two areas of the ocean (the “inshore” station versus the “offshore” station), based on how close to shore they are? For example, do you think there are more fish at one station than another? More nutrients? (Hint: Think about where most of the nutrients come from) Explain your answer.
2. Make two graphs, one for the inshore station and one for the offshore station. Look at the graphs you have made and circle the depths at each station where there is the highest chlorophyll.

3. Use your graphs to answer the following question. What depth at each station does the nitrate start to increase? (Hint: Choose the depth where the nitrate begins to be higher in concentration than the preceding depths.)
4. Use your graphs and tables to answer the following question. At what depth (s) for each station are there the highest oxygen concentrations?
5. What do you notice about the depth where there is a maximum in chlorophyll and where the nitrate starts to increase? Why do you think there is a maximum in chlorophyll at this depth and not right at the surface closest to the sun?
6. What have you learned about where phytoplankton like to live? Which station do you think supports a healthier food web? Explain your answer.