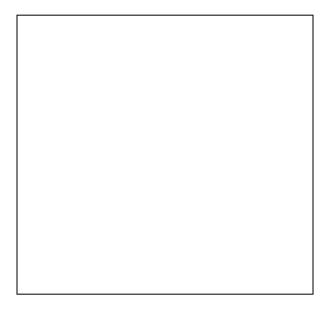
## Round: 6A

- 1. Starting with the mixing of carbon dioxide and water, write out the balanced, stepwise reactions and the overall balanced reaction that represent the oceanic carbonate buffering system. (4 pts)
- 2. Graph a vertical profile of calcium carbonate concentration versus water depth in the Atlantic Ocean. Label all axes and indicate the lysocline at an appropriate depth. (8 pts)



- 3. How would the above plot appear in a more acidic ocean? (6 pts)
- 4. What life stage of a sea urchin is most vulnerable to ocean acidification? (2 pts)