

NAME \_\_\_\_\_

87.202 - PRINCIPLES OF EARTH & ENVIRONMENTAL SYSTEMS II  
STUDY QUESTIONS AND PROBLEMS XIV

1. Draw a profile of a beach and label the major features.
2. Compare and contrast "winter beaches" and "summer beaches"
3. For a particular estuary the salinity of the incoming water is 350 and the salinity of the outflowing water is 250. The average daily evaporation is  $100,000 \text{ m}^3$  and the daily precipitation + runoff is  $120,000 \text{ m}^3$ . The total volume of the estuary is  $1,500,000 \text{ m}^3$ . Draw a cross-section of this estuary showing the general circulation pattern. Calculate the average volume of water that flows out of the estuary on a daily basis and the minimum flushing time. **(We did not cover this topic Spring 2017. It will not be on the Final Exam.)**

4. What effect does the building of dams on rivers have on deltas? On beaches?

5. Describe the effects that groins and jetties may have on a beach. Why do these changes occur? drawings may be helpful.