Study Guide Questions

Lecture: Ocean Tides and their Impact on Shelves, Channels, and Estuaries

Reading:

- p. 234-243 of Knauss (1997)p. 219-222 of Knauss (1997)p. 223-225 of Knauss (1997)
- 18. What is the effect of the earth's rotation on the tide generating force?
- 19. What is the effect of the vertical component of the tide generating force on ocean tides?
- 20. What is the effect of the horizontal component of the tide generating force on ocean tides?
- 21. Why are the tides in the Great Lakes hardly noticeable?
- 22. Does the tide generating force affect land masses?
- 23. Why do the largest tidal amplitudes almost always occur near the coast?
- 24. What could cause a tidal amphidromic system where the tidal sea level oscillation is zero? Whould you expect large or small tidal currents under such a "node?"