OCB 2010

Study Guide for Exam 3

* What are tsunamis? What generates tsunamis? Are they shallow or deep water waves?
* What are the characteristics of deep and shallow water waves?
* Figure 8.4
* Water waves are orbital waves
* What are storm surges? What generates them?
* Know examples of shallow water waves: tides, surf, tsunamis, etc
* What are capillary waves? Gravity waves?
* What are internal waves?
* What is fetch?
* What is a lunar day?
* Does the moon or sun have more influence on tides?
* What is a neap tide? Spring tide?
* What is ebb current? Flood current? Cotidal point? Amphidromic point? Tidal bore? Tidal range?
* What is apogee? Perigee? Aphelion? Perihelion?
* What are semidiurnal, diurnal and mixed tides? What is more common tidal pattern?
* What is a full tidal cycle?
* What is a longshore current?
* What is a summertime beach? Wintertime beach?
* What is a delta?
* Be familiar with features of erosional shores, depositional shores
* Be familiar with features of barrier island, Figure 10.10a
* Which US coastline has greatest erosion?
* What is the distinction between barrier island and sea island?
* What is a salt marsh? Mangrove swamp? Dune?
* What is a halocline? What is meant by “isohaline?”
* What is hard stabilization? – groin fields, jetty, breakwater, seawalls