Types of Wetlands

Tidal Systems

COASTAL WETLAND ECOSYSTEMS

- ♦ Tidal Salt Marshes
- Tidal Freshwater Marshes
- Mangrove Wetlands





Definition and Formation of Estuaries

- Estuary: partially enclosed coastal embayment where salt & fresh water mix
- ♦ Formation Types
 - Coastal plain estuary: rising sea level invaded coastal river valleys (most common)
 Ex. Chesapeake Bay/ Columbia River



<section-header><section-header> Formation Types - Section Control of the subsides, sea floods. - San Francisco Bax - Semi-enclosed bax: shallow lagoon forms shallow lagoon forms a collects freshwater. Along Gulf coasts, not











Characteristics -Waves & Currents

- ♦ Narrow, shallow mouth
 → dissipated waves, currents
- Small fetch, so only small waves form
- Currents from tidal & river flow; confined to channels
- Highest flow: mid channel, by partial barrier
- Long flushing time (time for fresh water to be discharged) → retains estuarine plankton community































<section-header> **Find Salt Marsh Functions**Gross and net productivity are high Marsh is a major producer of detritus for salt marsh and adjacent estuary Detrital decomposition is the major pathway for energy utilization Source and sink of nutrients Marsh provides benthic, aquatic and avian habitat





Freshwater Tidal Wetland Crosssection

















