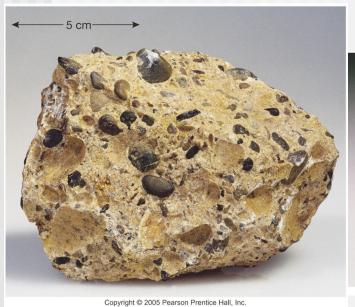
Clastic/Detrital Sed Rocks

- Particles/fragments cemented together
 - Shale
 - Sandstone
 - Conglomerate
 - Breccia







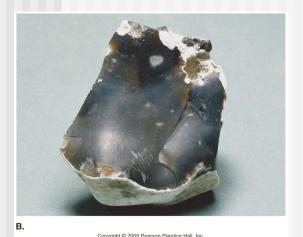
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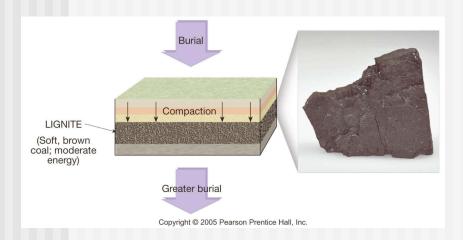
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Chemical sedimentary rocks

Precipitated Rocks--Oceans



- Limestone
- Coquina
- Chert
- Chalk
- Coal







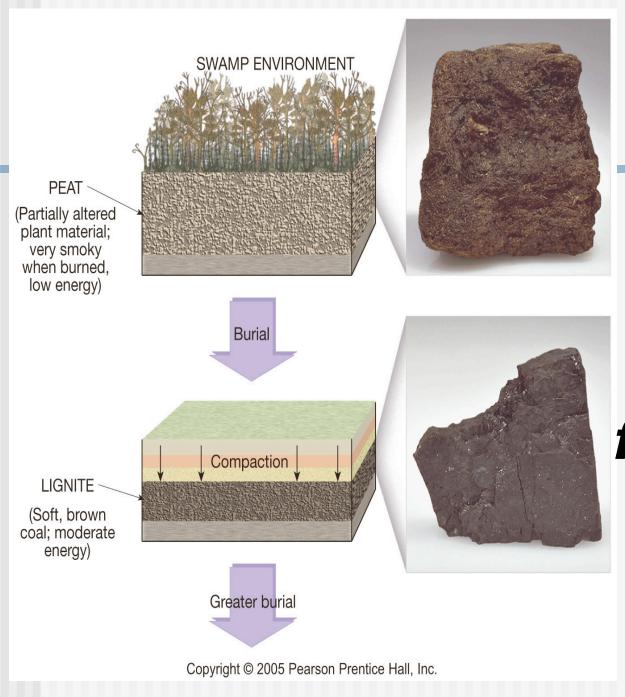


Chemical sedimentary rocks

- Common chemical sedimentary rocks
 - Coal
 - composed of organic material
 - Stages in coal formation (in order)
 - 1. **Swamp**
 - · 2. Peat
 - 3. Lignite
 - 4. Bituminous
 - 5. Anthracite

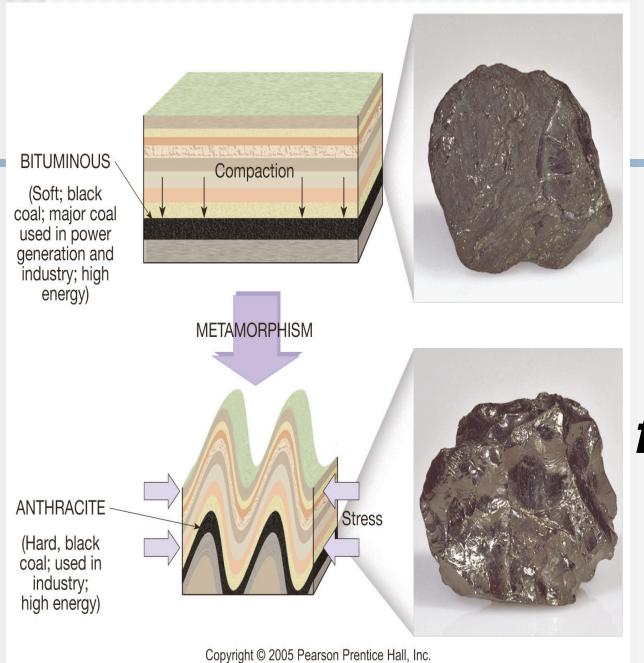


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Stages of coal formation

Figure 7.15

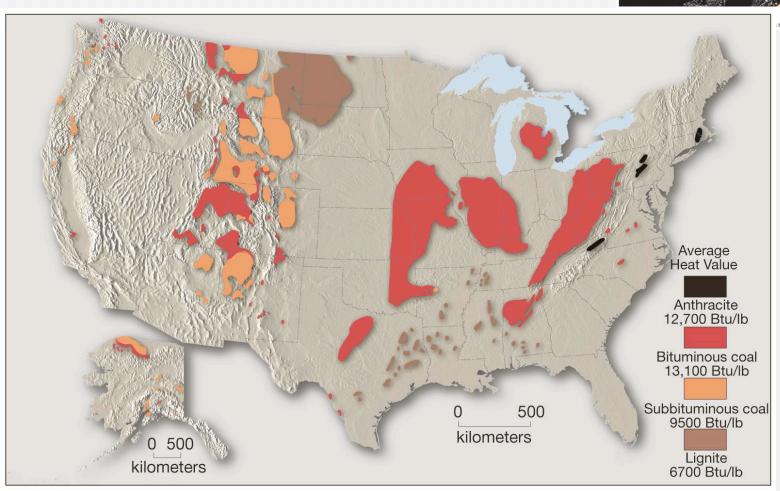


Stages of coal formation

Figure 7.15

Coal in the U.S.





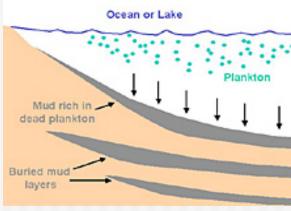
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Oil--Oceanic Plankton





Oceanic muds



Sed Features

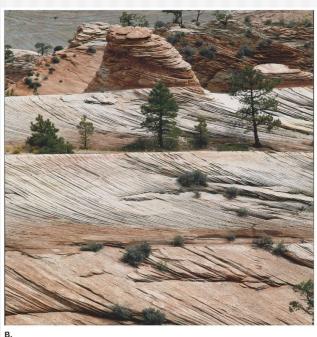
- Graded Bedding
- Cross Beds
- Ripple Marks
- Mud Cracks



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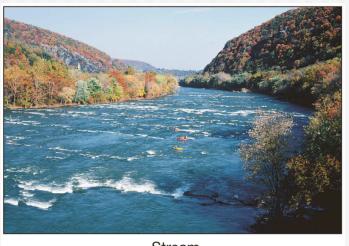
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Sedimentary environments

- **■** Types of sedimentary environments
 - Continental
 - Shorelines
 - Marine

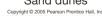


Beach
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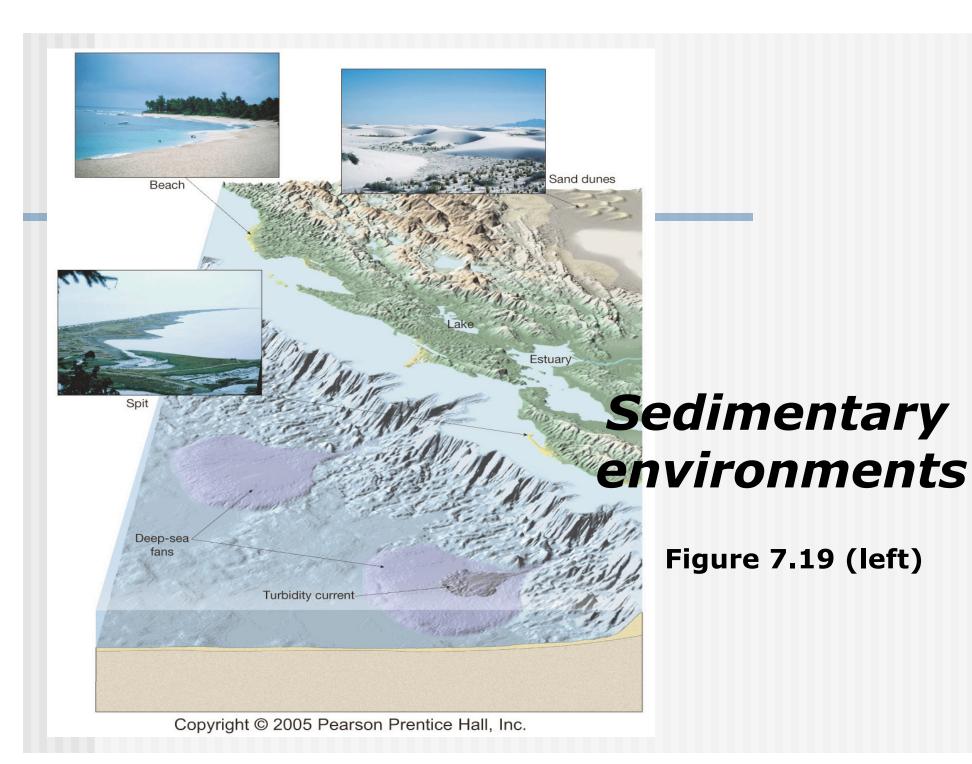


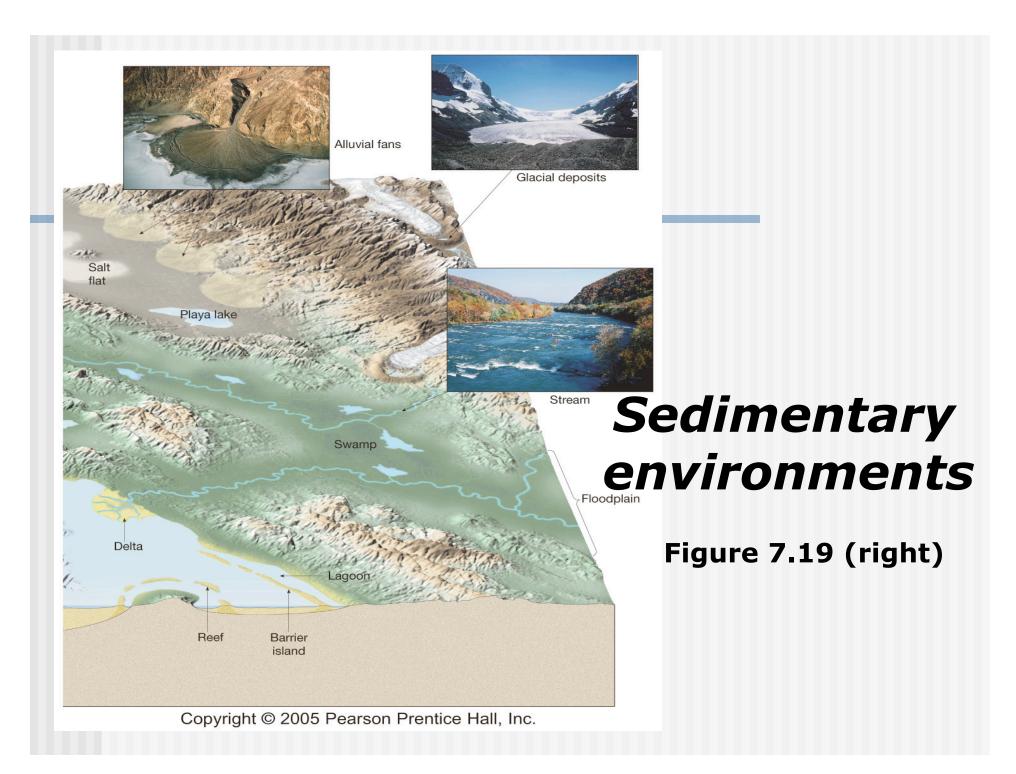
Stream
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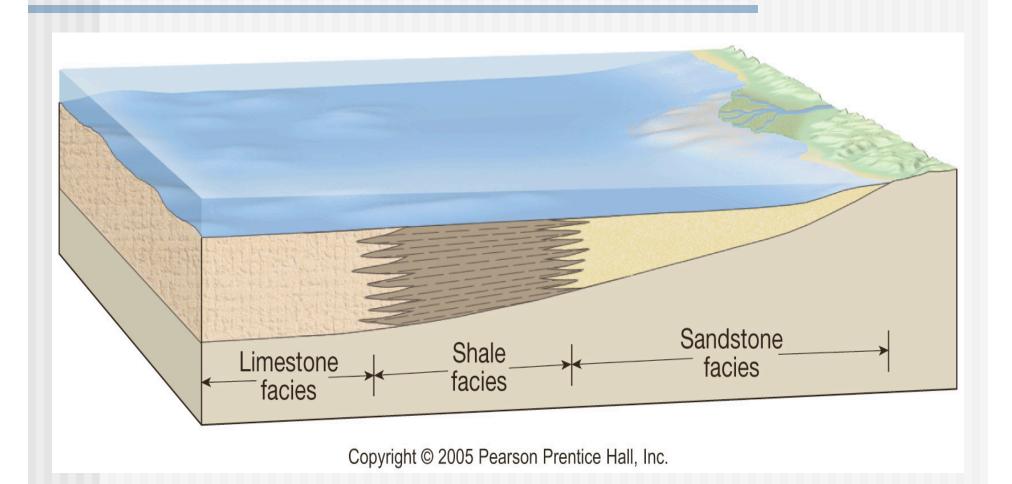








Sedimentary facies



Importance of Sedimentary Rocks

- Depositional History
- •Surface Processes
- Fossils (animals and plants)
- Transgression & Regression
- Resources
- Record of Time



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