Last Time

Mesozoic Sedimentation (web notes 32)
A) Triassic Sedimentation (Breakup of Pangaea)
B) Jurassic Sedimentation (Birth of the Atlantic Ocean)
C) Cretaceous Sedimentation (Creation of the Coastal Plain Province)

Alabama Subsurface

Mesozoic Stratigraphy

Mesozoic Paleogeography

Mesozoic Sedimentation

Triassic
- Initial opening of Gulf of Mexico
- Alluvial fans (breccia/arkose)
Mesozoic Paleogeography

Mesozoic Sedimentation

Alabama Mesozoic Stratigraphy

Great Salt Lake (evaporite basin)

http://www.americansouthwest.net/utah/photographs700/salt.jpg

Sand dunes in the Gobi Desert

The Great Barrier Reef

http://www.anntorrence.com/blog/at-images/gbr_02.jpg

Alabama Mesozoic Stratigraphy

Alluvial Fan in California

http://www.uoregon.edu/~millerm/fan.html

Alabama Mesozoic Stratigraphy

Evaporite minerals (halite/anhydrite)

Early Jurassic

• Initial flooding of Gulf of Mexico and Northern Atlantic Ocean
Today

Mesozoic Sedimentation (web notes 32)
A) Triassic Sedimentation (Breakup of Pangaea)
B) Jurassic Sedimentation (Birth of the Atlantic Ocean)
C) Cretaceous Sedimentation (Creation of the Coastal Plain Province)

Mesozoic Sedimentation
Mid-Late Jurassic
• More widespread flooding of Gulf of Mexico and Atlantic Ocean and...

Mesozoic Sedimentation
Late Jurassic
• Major transgression and flooding of the craton begins
  • Sundance Sea
  • Clastic wedges

Mesozoic Sedimentation
Late Jurassic
• Major transgression and flooding of the craton begins
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**Mesozoic Sedimentation**

- **Late Jurassic**
  - Major transgression and flooding of the craton begins
  - Sundance Sea
  - Clastic wedges
  - Navajo Sandstone

**Mesozoic Paleogeography**

- **Late Cretaceous**
  - 94 Ma

**Mesozoic Sedimentation**

- **Cretaceous**
  - Southern rifting in the Atlantic Ocean
  - Gulf of Mexico stops opening

**Mesozoic Sedimentation**

- **Cretaceous**
  - Southern rifting in the Atlantic Ocean
  - Gulf of Mexico stops opening
  - AL Coastal Plain sedimentation

**Mesozoic Sedimentation**

- North
- South

**Today’s Homework**

1. Start Studying; finals are coming up
2. Quiz 10 this Friday

**Next Time**

1. The Cenozoic