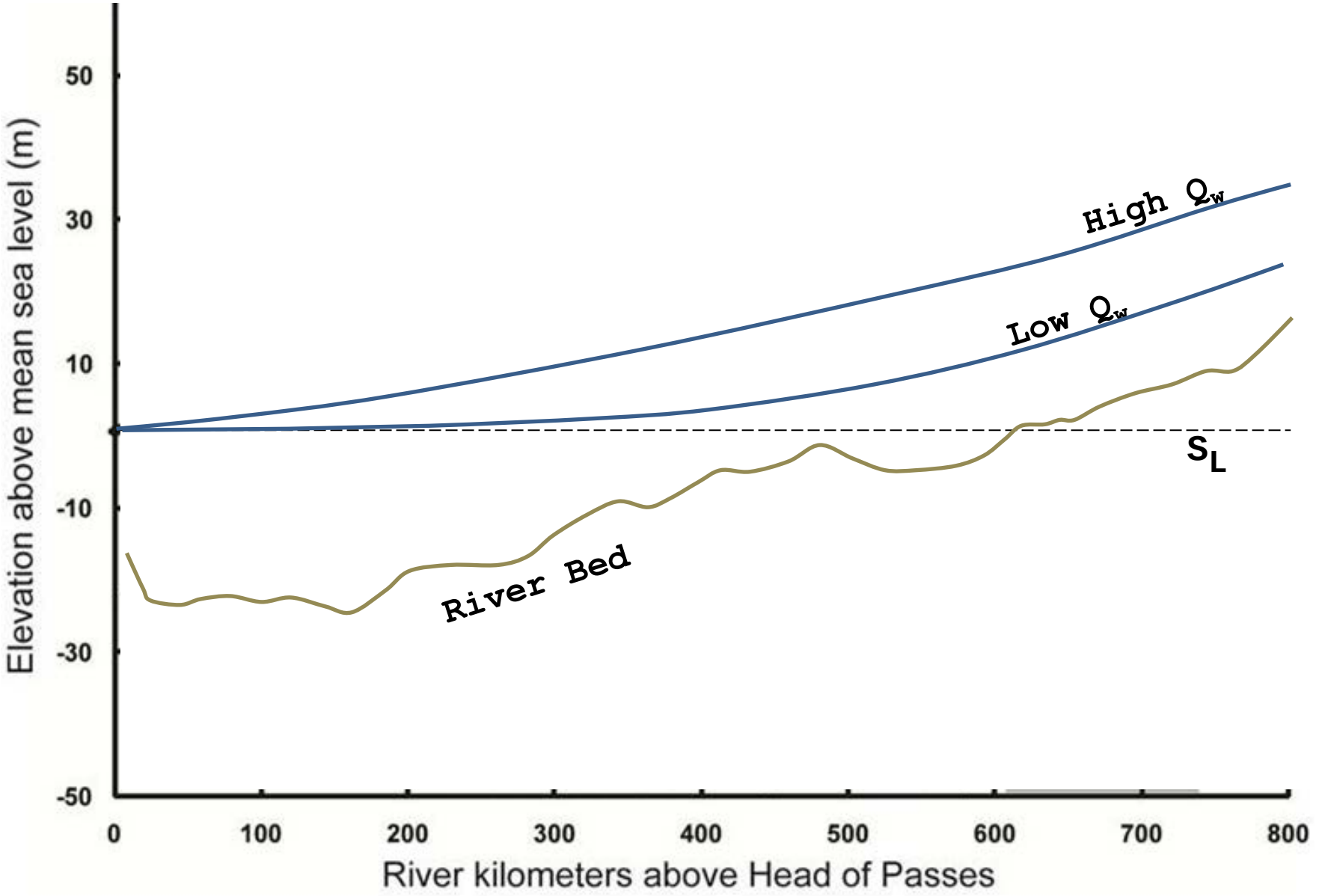

91° W
90° W
89° W
Old River Diversion
RK 506
St. Francisville
RK 425
Morganza Spillway
RK 447
Baton Rouge
RK 367
RK 280
Lake
Pontchartrain
30° N
Mississippi River
New Orleans
Bonnet Carre Spillway
RK 205
Audubon Park
RK 160
Belle Chasse
RK 120
Breton Sound
Empire Reach
29° N
50 km
Gulf of Mexico
Head of Passes
RK 0

Lowland Rivers

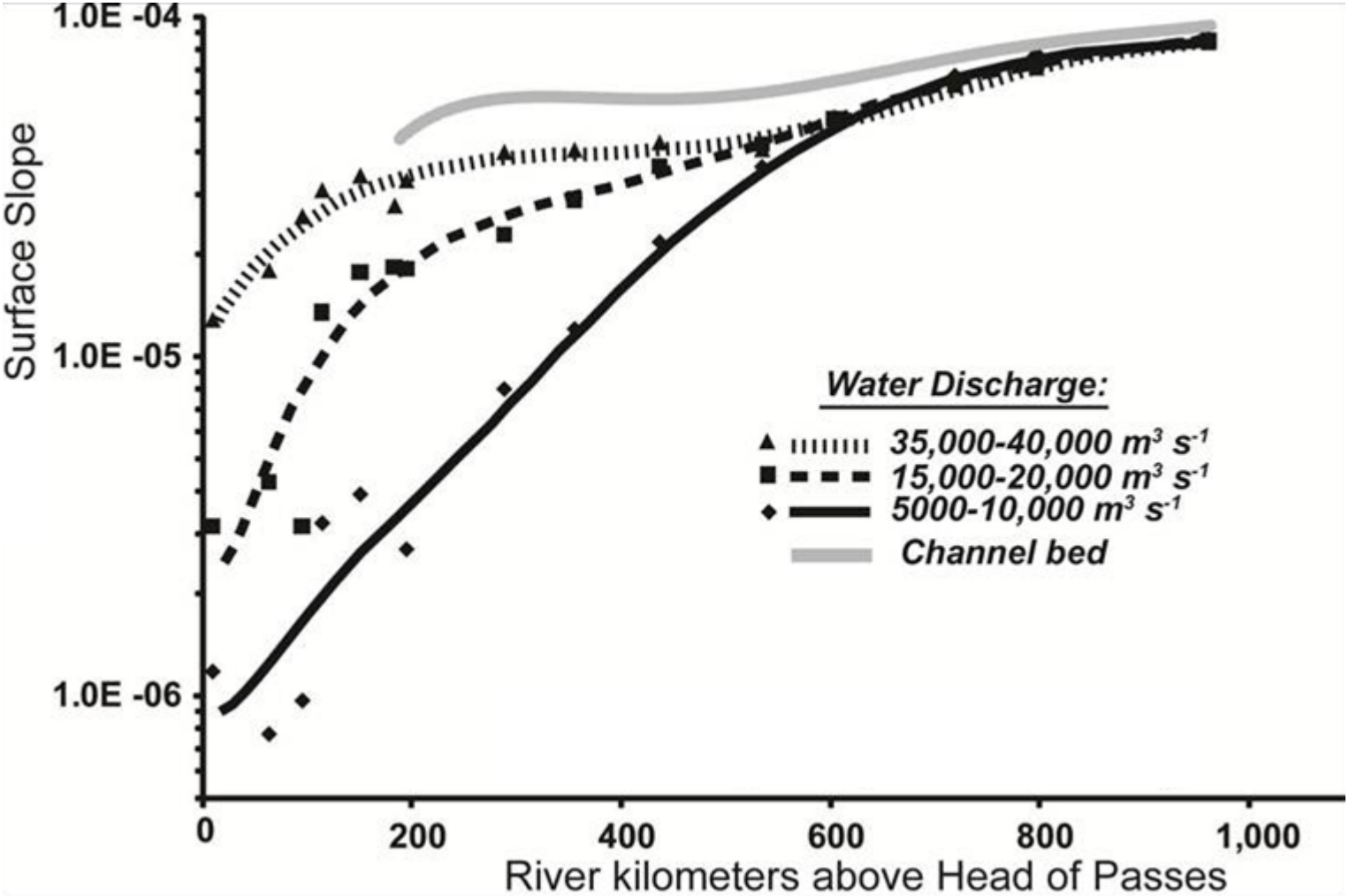
Backwater



[Nittrouer, 2012]

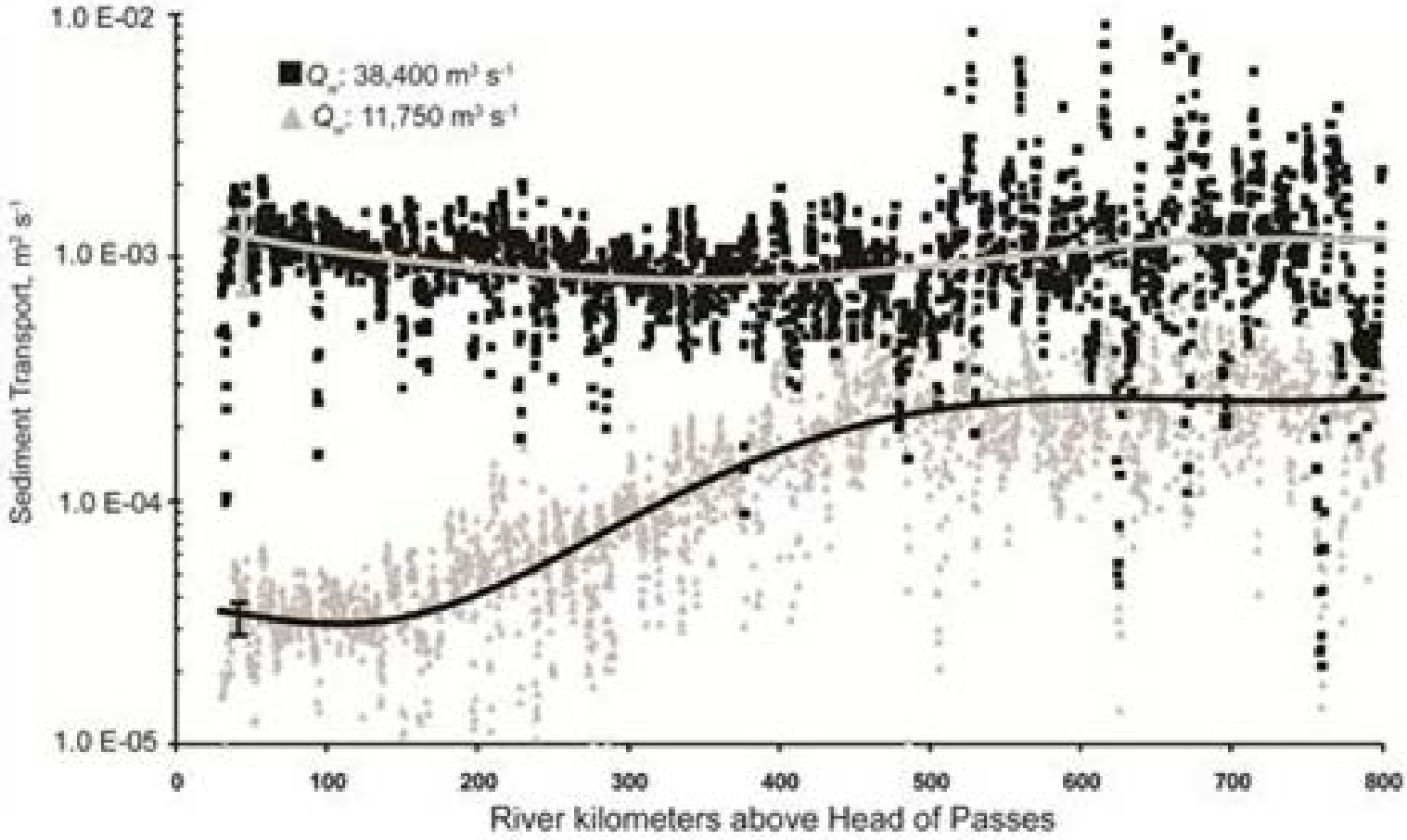
Lowland Rivers

$$L_B = \frac{H}{S} = \frac{20\ \text{m}}{4 \times 10^{-5}} \approx 500\ \text{km}$$



[Nittrouer, 2011]

Lowland Rivers



[Nittrouer, 2011]

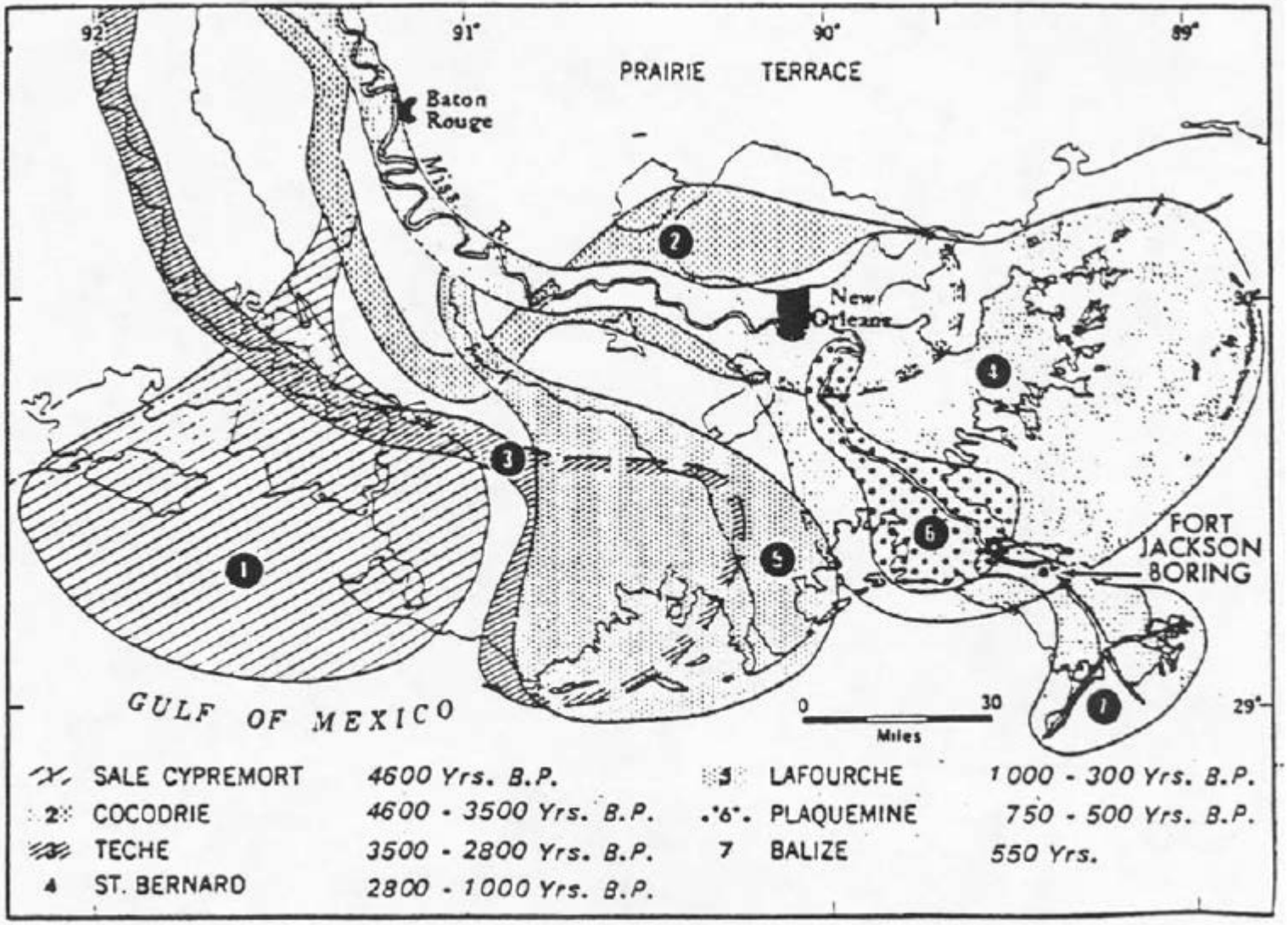


FIGURE 3 - Chronology of delta lobes that compose the Mississippi deltaic plain. (after Fisk and Kolb, and Van Lopik).

Compensational Stacking

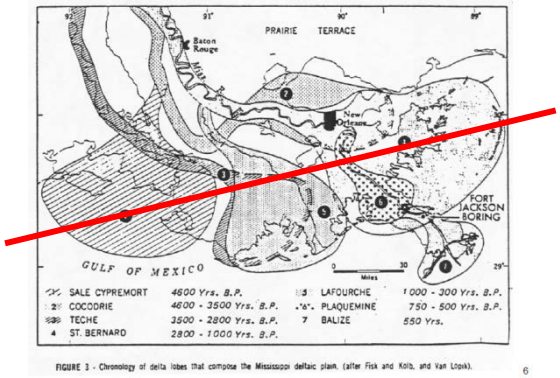
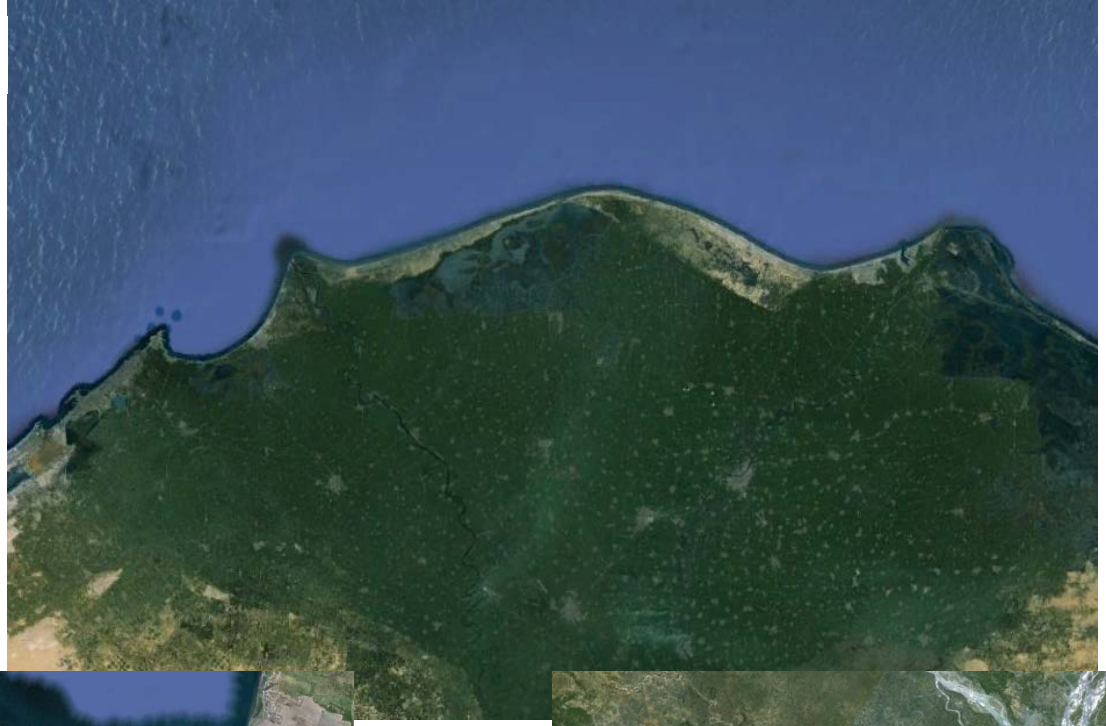
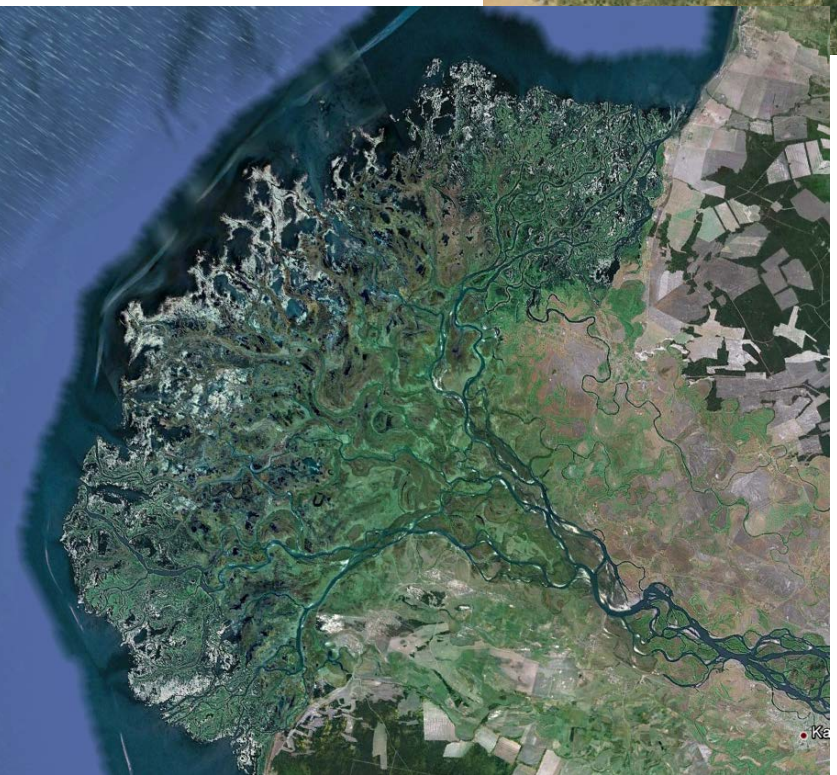


FIGURE 3 - Chronology of delta lobes that compose the Mississippi deltaic plain. (after Fisk and Kolb, and Van Lopik).

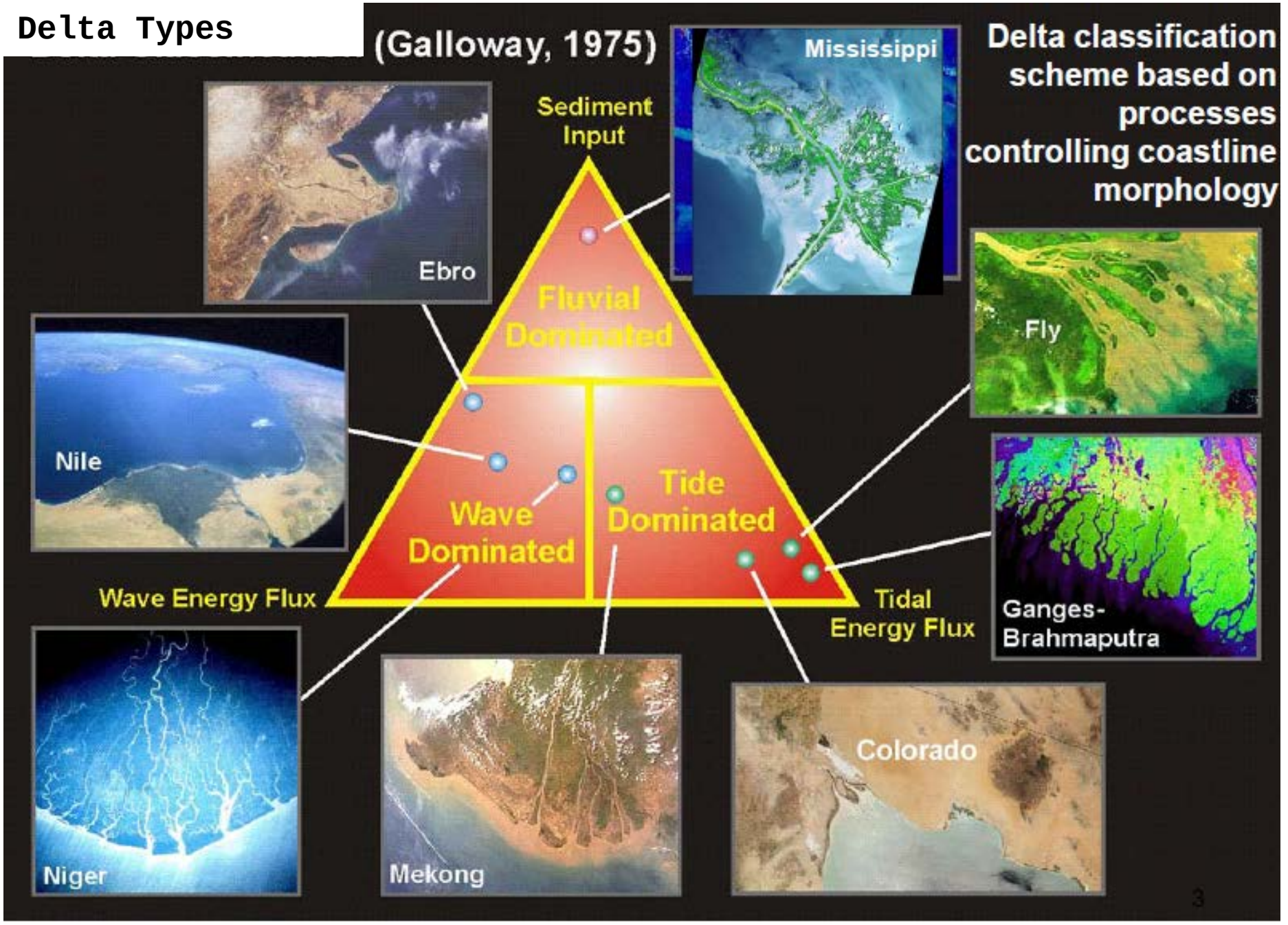
Delta Types



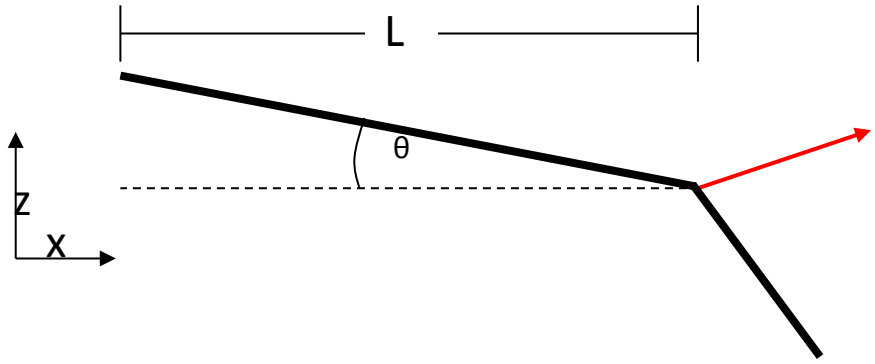


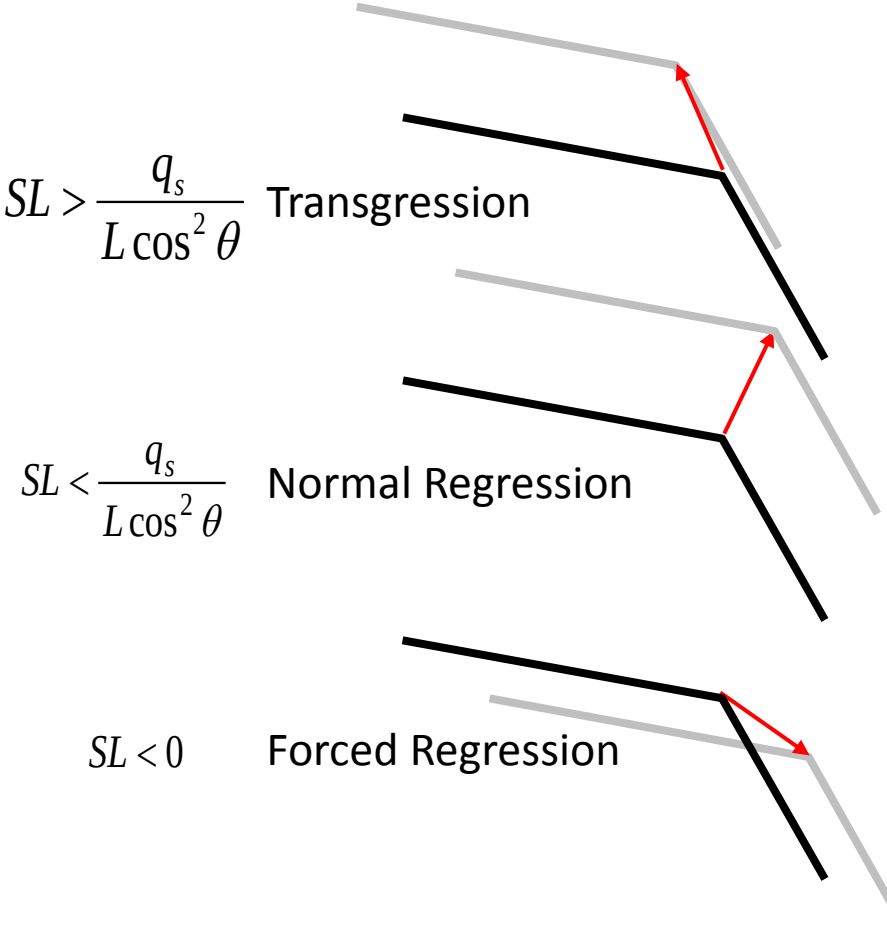
Google

Delta Types


(Galloway, 1975)
Delta classification scheme based on processes controlling coastline morphology
Sediment Input
Fluvial Dominated
Wave Dominated
Tide Dominated
Wave Energy Flux
Tidal Energy Flux
Mississippi
Ebro
Fly
Nile
Ganges-Brahmaputra
Niger
Mekong
Colorado

Transgression / Regression styles





Definitional diagram above shows slope and "map" length of the fluvial part of the setup and a vector describing the evolution of the shoreline position. The three possible behaviors relative to "sea level" forcing are shown to right.

Heller

Delta Architecture