

Plate Tectonics

Solar Input

Biological Activity

Climate distribution, Atmosphere and Ocean Circulation, Accommodation Change, Global Sea Level, Evolution of Landscapes and Bathymetry

Organic-Matter Production
= $f(\text{Nutrient Supply, Sunlight, Water Supply})$

Organic-Matter Destruction
= $f(\text{Oxidant Supply Rate, Consumers, Burial Rate})$

Dilution of Organic Matter
= $f(\text{Supply of Clastic, Biogenic, \& Chemical Sediments})$

Organic-Matter-Rich Rock

