The Evolution of Sedimentary Rocks and Depositional Environments

Block Faulted Continent

Continental (granitic) sourceland

Arkose Breccia

Alluvial Fan

Rounding

Arkose Conglomer

Sorting

Arkose Sandstone

Braided River

L-Bars

Other short system rocks

Wacke Conglomer

Quartz Conglomer

Weathering

T-Bars

Subarkose Wacke

Meandering River

Point Bars

Quartz Wacke

Sorting

Sublithic Wacke

Meandering River

Point Bars

Lithic Wackes

Long System

Gravel System

Cordilleran Orogeny (Continent-Edge Subduction)

Mixed igneous/sedimentary/metamorphic sourceland

Lithic Breccia

Alluvial Fan

Rounding

Lithic Conglomer

Sorting

Lithic Sandstone

Braided River

L-Bars

T-Bars

Submarine Fan

Bouma Sequence

Basin

Black Shale

Mixed Weathering Products

Calcareous Shale

Sediment during Transportation

Calcium carbonate in solution

Quartz Sand

Clay

Dolomite

Shale

Limestone

Near Shelf

Hummocky

Siltstone Shale

Carbonates

Far Shelf

Quartz Sandstone

Quartz + Clay

Shale

Lake