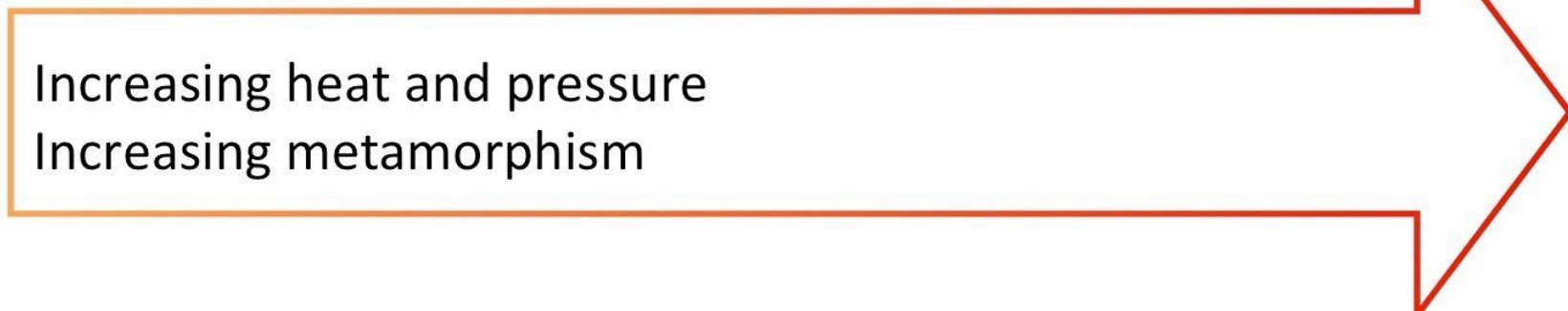


The Metamorphic Continuum



No metamorphism
Sedimentary rock

low-grade metamorphism

medium-grade metamorphism

high-grade metamorphism



Shale

image by GorissenM

Slate

Phyllite

image from
Wikimedia Commons

Schist

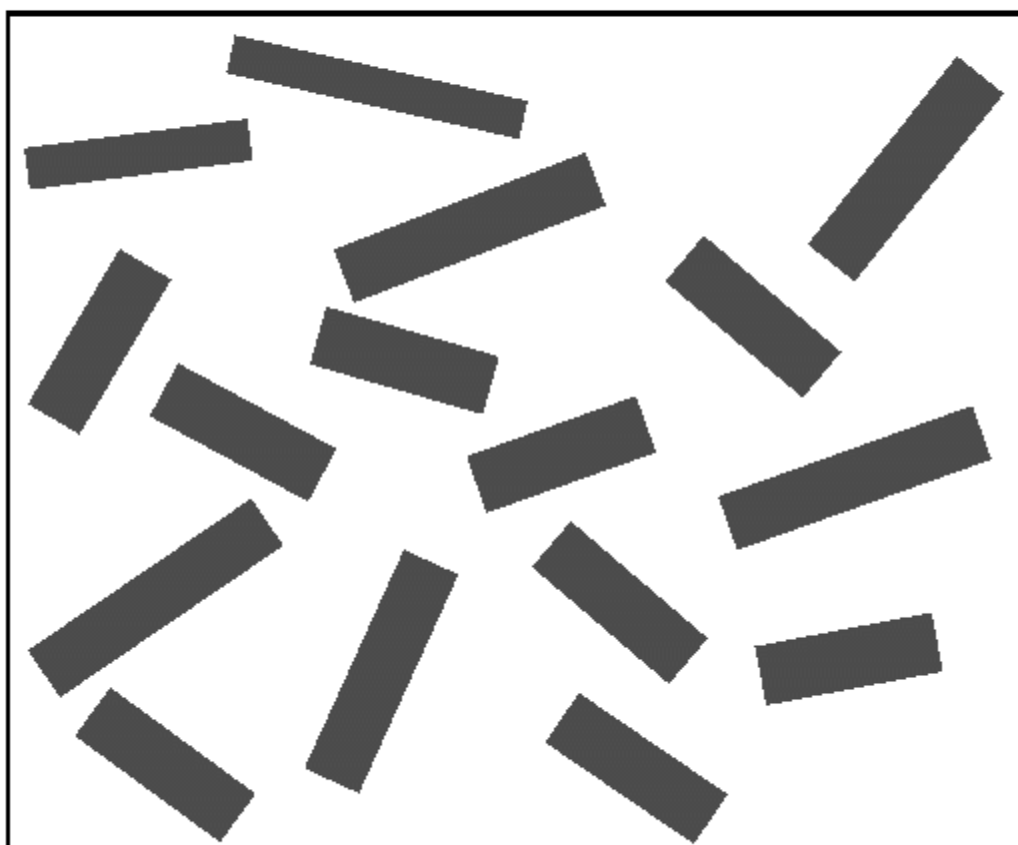
image by James St. John

Gneiss

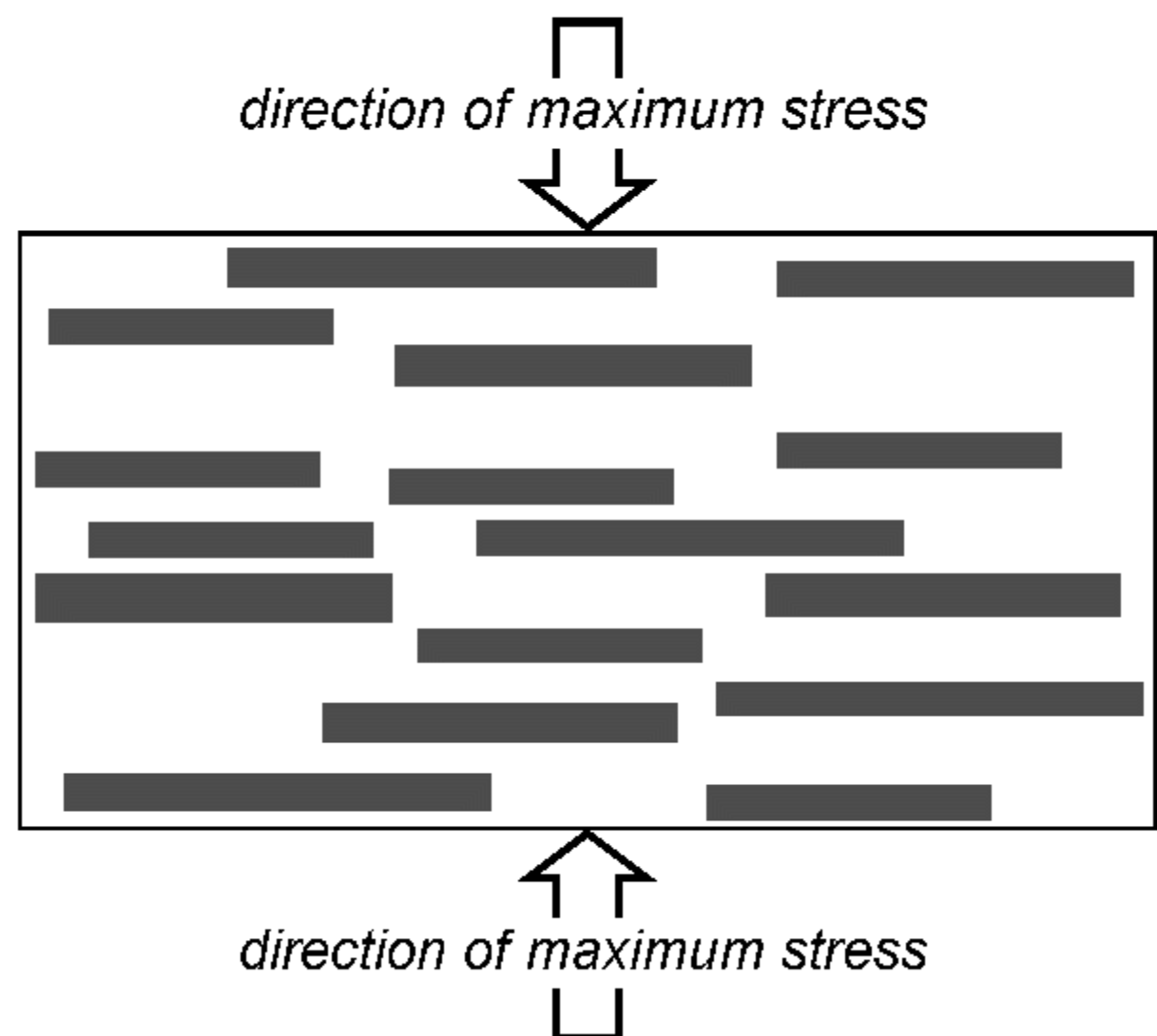
image by James St. John

© Image by Karin Kirk for MIA+BSI

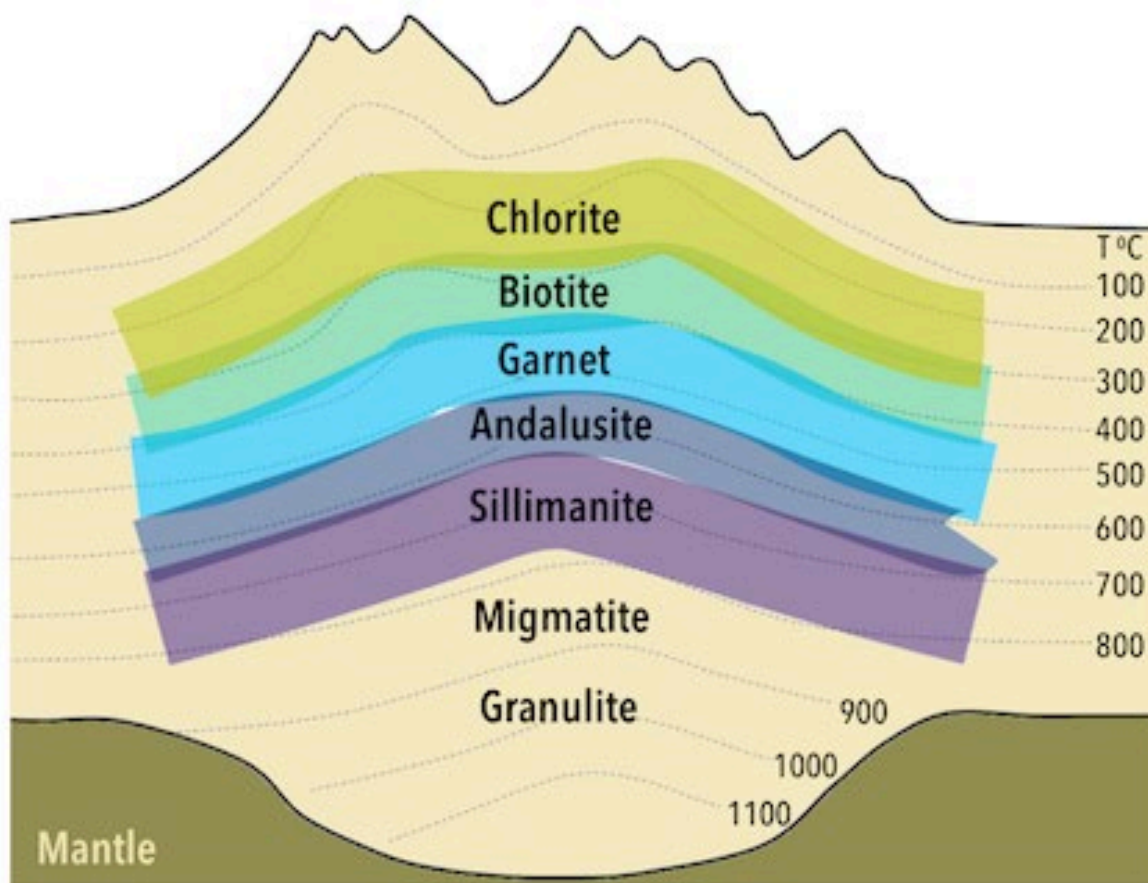
randomly oriented minerals



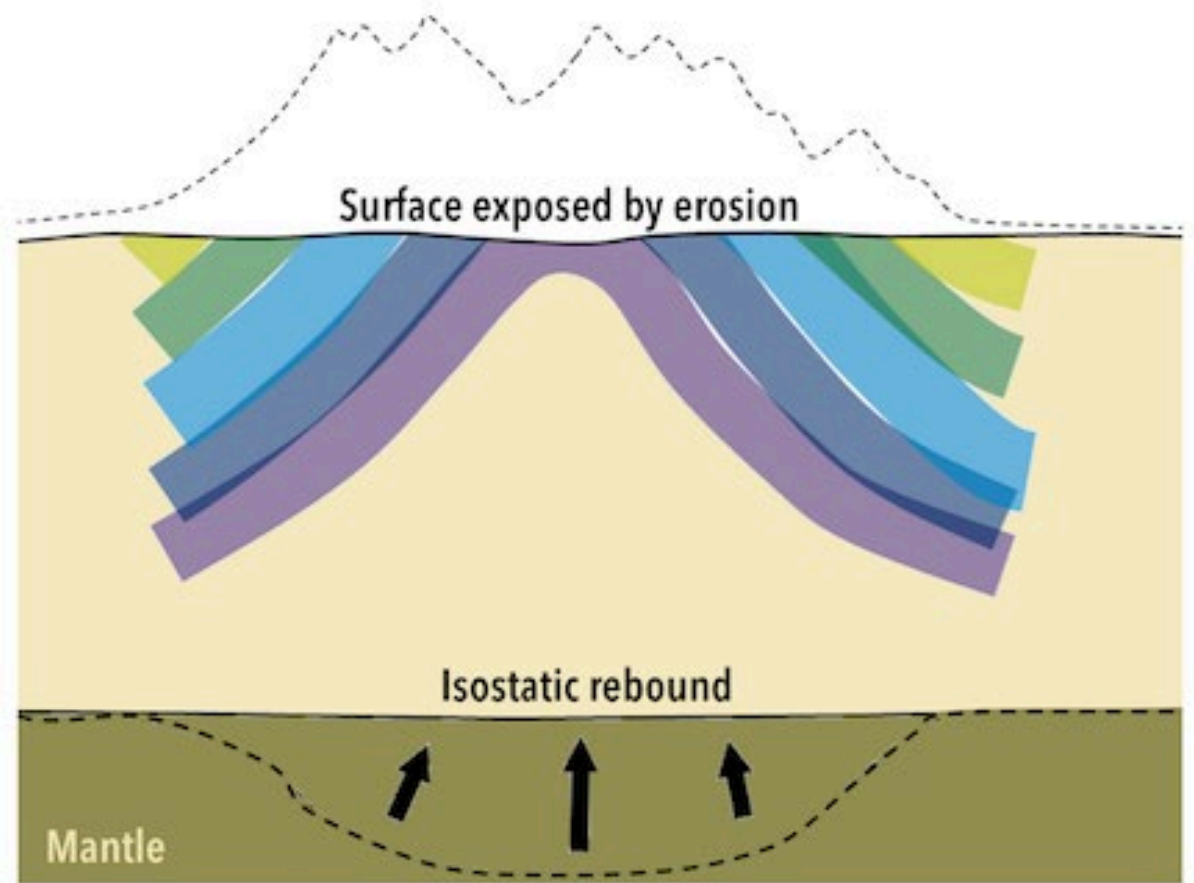
preferentially oriented minerals



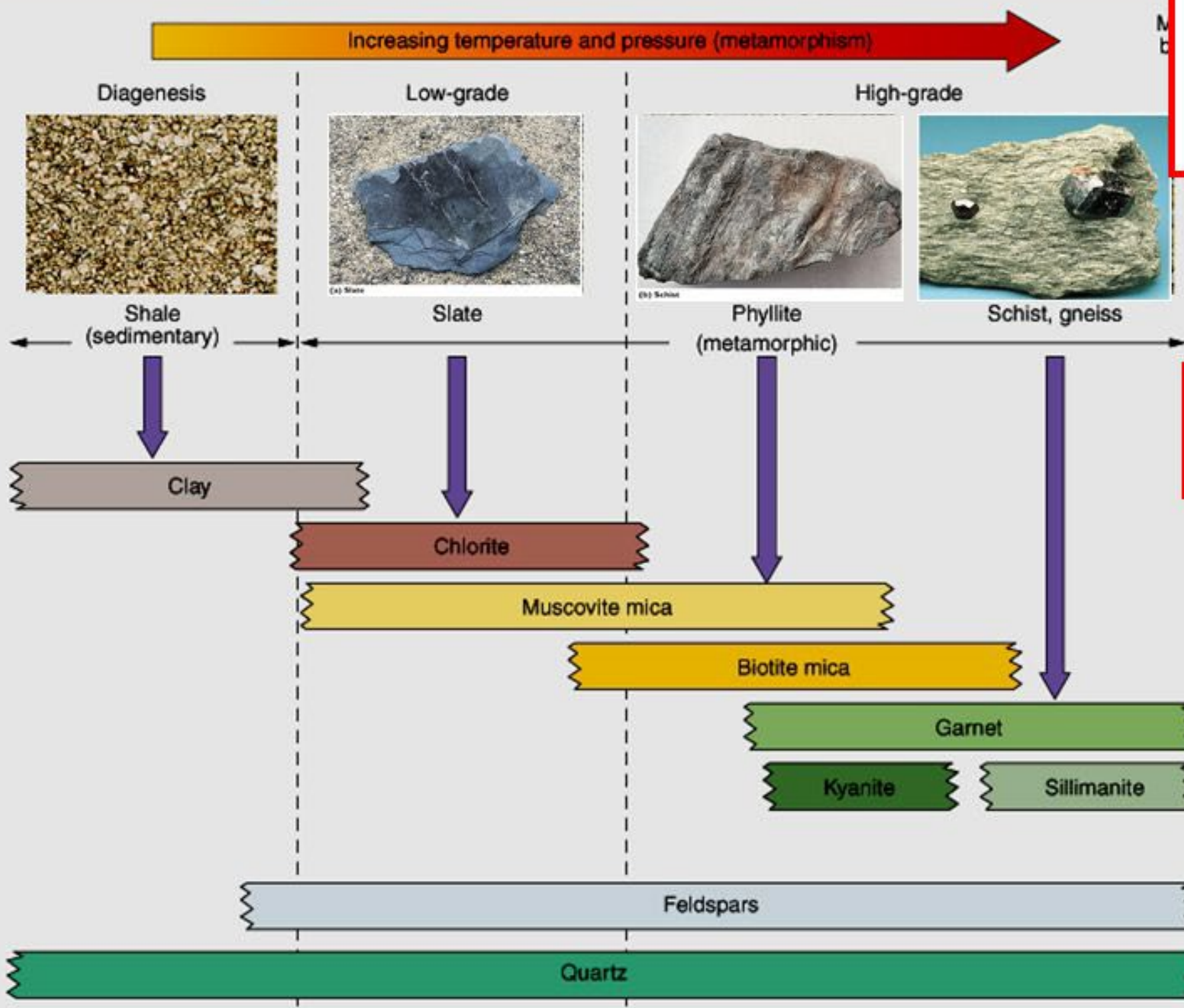
During mountain building



After erosion



Concept of Index Minerals



Index Minerals

Chlorite, biotite,
garnet, kyanite,
sillimanite

Only exist over a
narrow P-T range

