

## Lecture 11-12 : METAMORPHIC ROCKS

Meta rocks = pre-existing rocks (sedimentary or igneous) undergo changes in : Grain size, Minerals and/or Mineral composition

**METAMORPHISM** = "The process by which the mineralogy and texture of a rock is modified by changes in temperature, pressure and fluid addition or subtraction within the Earth"

Limit of metamorphism => low T\* limit = 200°C (where is the diagenesis boundary)  
high T\* limit = ~ 650-1100°C (where melting occurs)

So meta occurs bt 200°C and 65°-1100°C

(=> Migmatite : meta or igneous rock ?

Migmatite are mixed rocks => not crystallised from a totally molten material, and not the result of solid-state reactions. Geologists consider migmatites to be metamorphic rocks until there is so much melt that they become completely disaggregated)

### AGENTS OF METAMORPHISM :

- Temperature
- Pressure
- Differential stress
- Fluids

### I] TEMPERATURE

- The most important factor
- T (and P) vary depending on location in the crust...
- At the Earth's surface P and T are low, as you go deeper both increase
- Heat sources (Heat from these sources is redistributed by radiation, convection and by magma migration) :
  - Mantle heat (heat from radioactive elements)
  - Radioactive decay of U, K and Th in the crust
  - Magmatic intrusions
- Temperature increase with depth => The rate of increase in temperature with depth is known as the geothermal gradient
  - Continental crust 30°C/km
  - Mid-ocean ridge: hot young magma 60°C/km
  - Subduction: cold, old rocks subducted 5°C/km
- Effects of temperature
  - Generate new minerals
  - Fluids are released (Example: Clay = Mica + H<sub>2</sub>O)
  - Crystals grow larger => grains become larger
  - Rocks weaker => more able to "flow" and deform in a ductile way

### II] PRESSURE

- Pressure increases with depth => because there's a lot of rocks on top of each other as you go down (weight of overlying rocks)  $P = \rho gh$
- Density is mostly 3000kg/m<sup>3</sup> so : When somebody says 3 kbar you can quickly estimate depth equivalence by multiplying by 3

# Study Guide Meta Rocks Answers

**Ralph M. Feather, Susan Leach  
Snyder, Dale T. Hesser**



## **Study Guide Meta Rocks Answers:**

**Student Study Guide** Peter L. Kresan, Reed Mencke, Frank Press, Raymond Siever, 2003-09-25 This reconceptualization of the text *Understanding Earth* reflects the fundamental changes in the field of physical geology over the past several years

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