Intrusive Features:

**Plutionic:**  another word for intrusive

* Form before reaching surface
* Have large crystals because of slow cooling allowing crystals to grow and build

**Pluton**: also called an intrusion

* Defined as any intrusive formation

Can be either:

* Concordant: parallel with surrounding layers or
* Discordant: cuts across surrounding layers

Batholith- a pluton that is large and exposed

Eg. BC’s coast mountains

Columnar Joints: regular 5 or 6 sided columns of solid magma caused by cooling and condensing

Dike: a sheet-like discordant pluton

Sill- a sheet-like concordant pluton

Note: because they tend to fill rock cracks they are usually made of mafic magma

Diagram:

Hot Springs: Pools of water heated by magma or tectonic processes

Geyser: water that is heated by tectonic processes or magma but is trapped until it eventually sprays out under pressure to escape

Fumarole: Gases that have escaped from magma vent through the ground