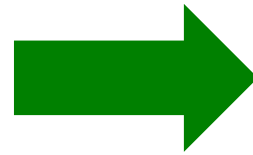


Succession



Ecological Succession

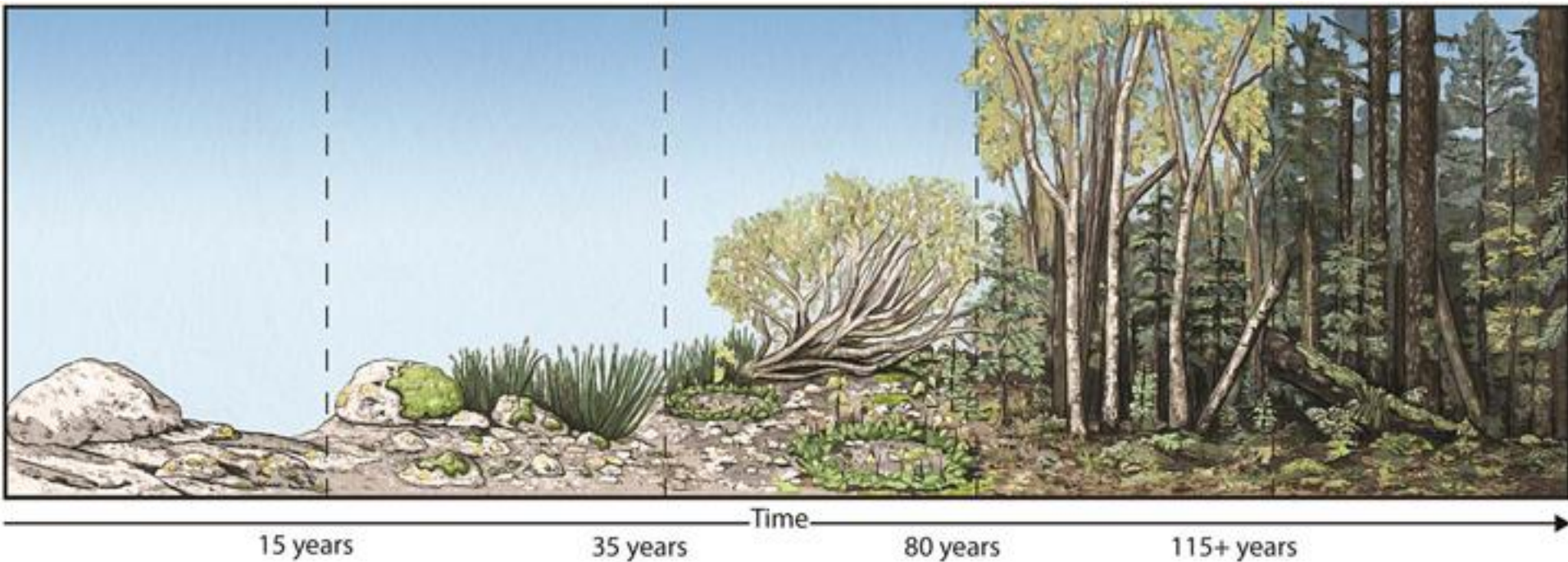
A series of more-or-less predictable events that occur in a community over time



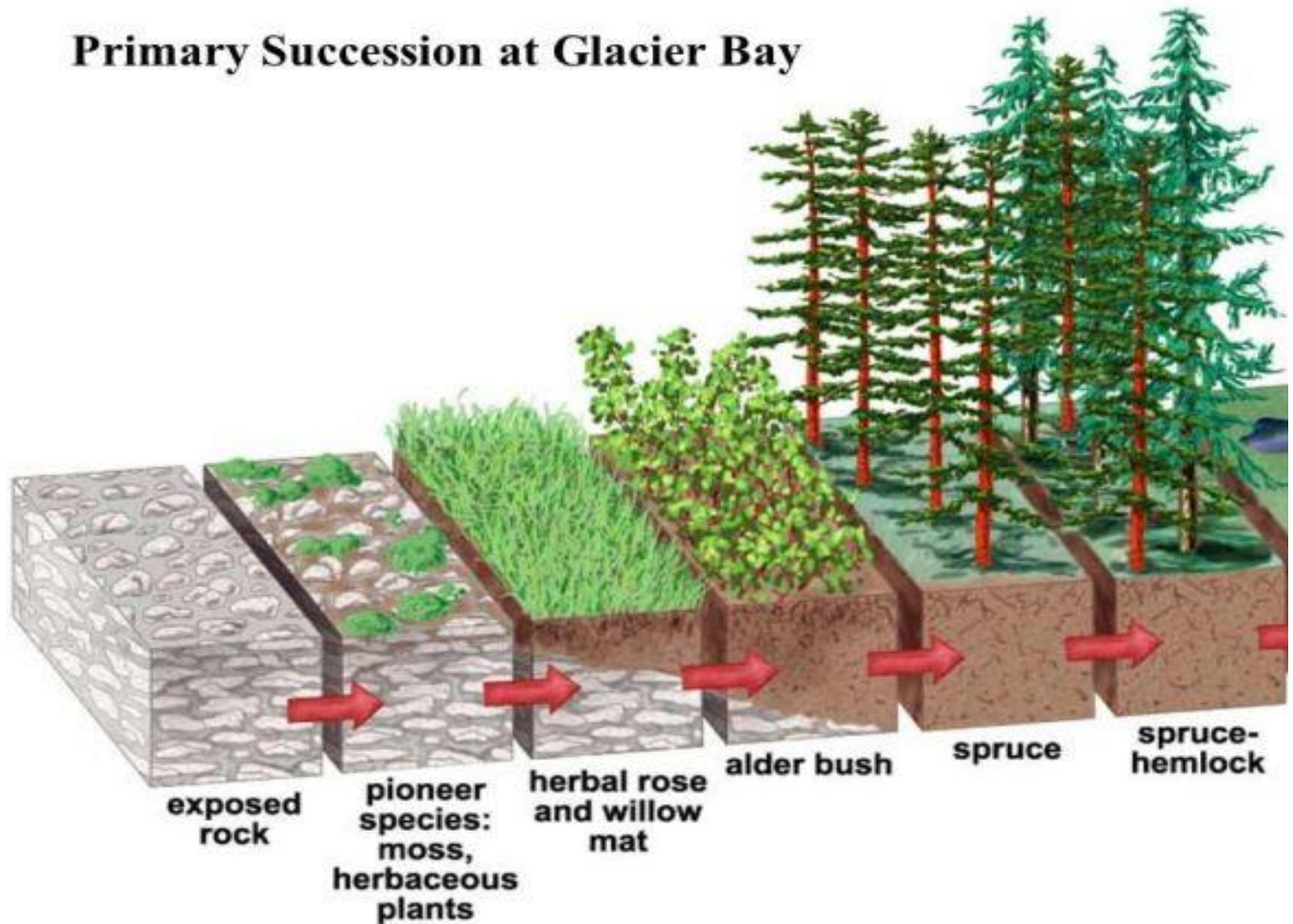
Primary Succession

Succession that begins in areas that have no remnants of an older community.

Fill in the specific times on your notes



Primary Succession at Glacier Bay





1 Pioneer stage, with fireweed dominant



4 Spruce stage



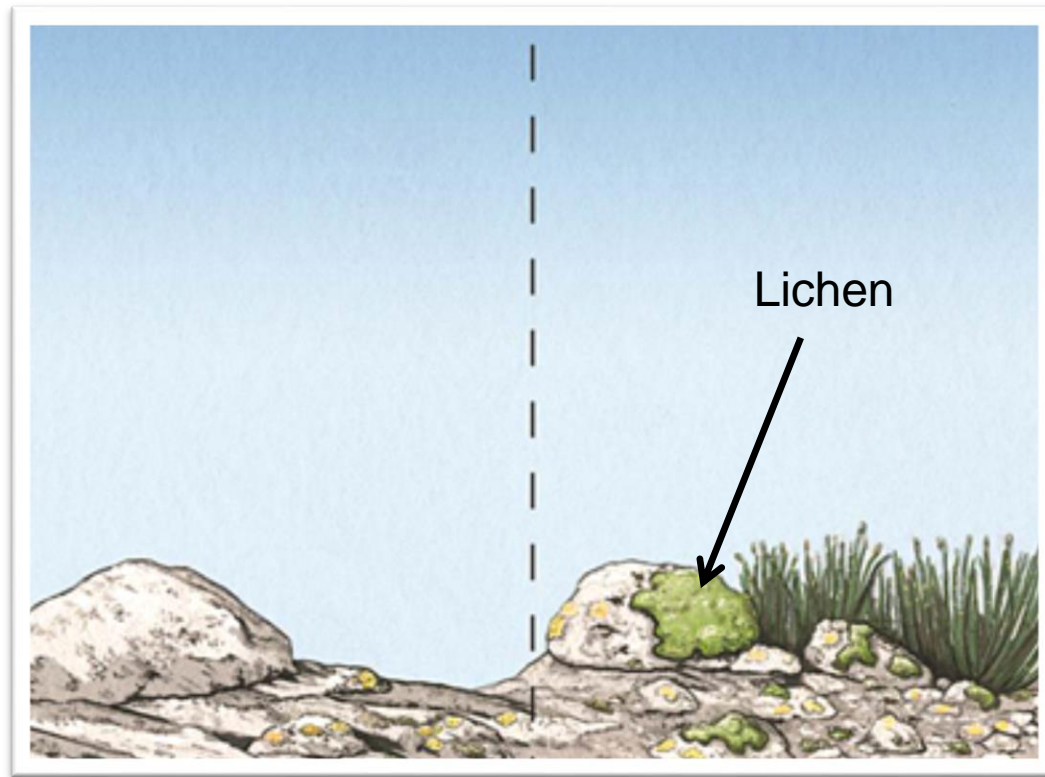
2 Dryas stage



3 Alder stage

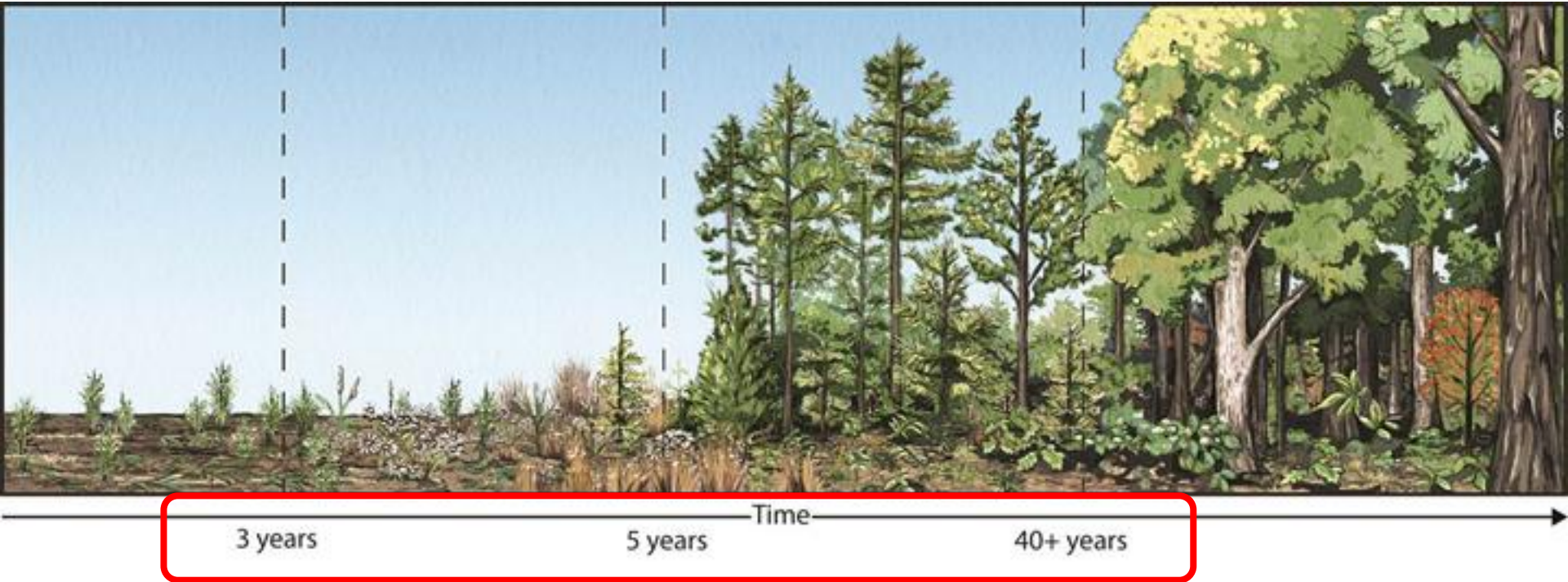
Pioneer Species

The first species to colonize barren areas

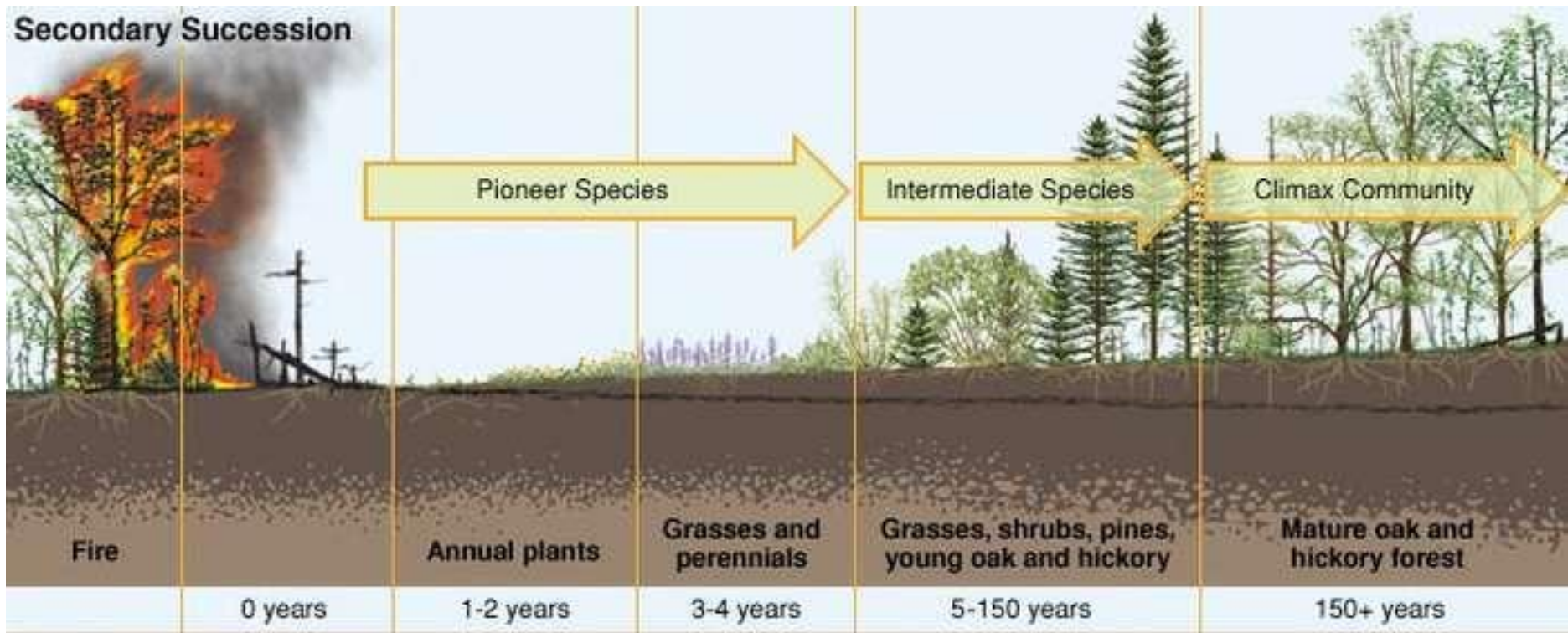


Secondary Succession

Succession that occurs when a disturbance affects an existing community but doesn't completely destroy it



Secondary Succession



Climax Community

A specific, uniform, and stable community at the “end” of succession

However . . .

Recent research shows climax communities are not always uniform and stable.

Label the climax communities in both the primary and secondary communities on your notes.

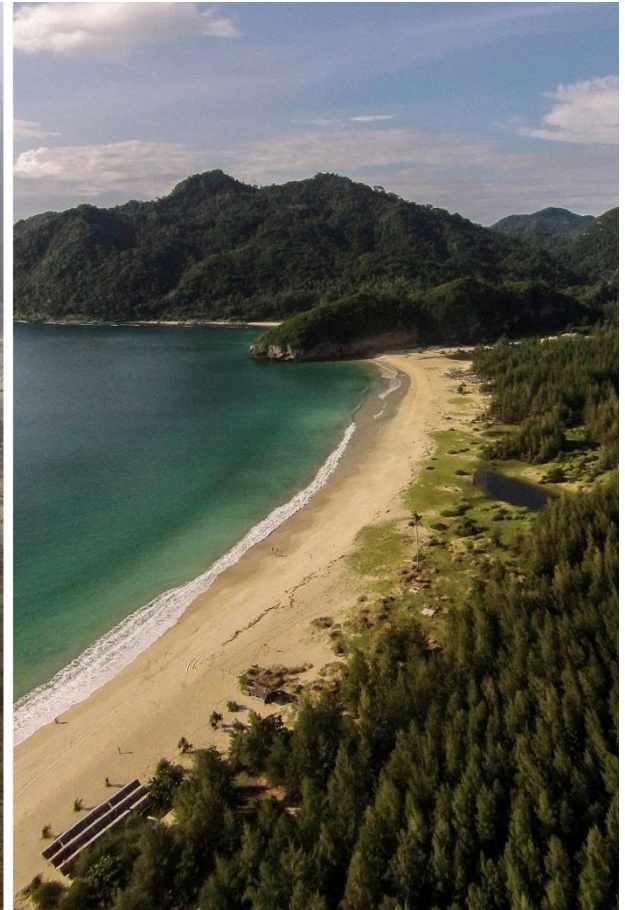


Succession After Natural Disturbances

Patches of climax communities may be in different stages of secondary succession due to multiple disturbances.



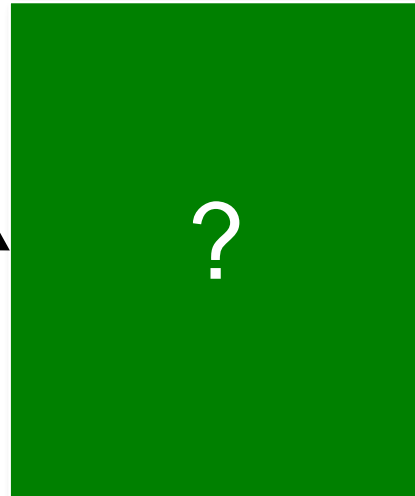
December 2004



December 2014

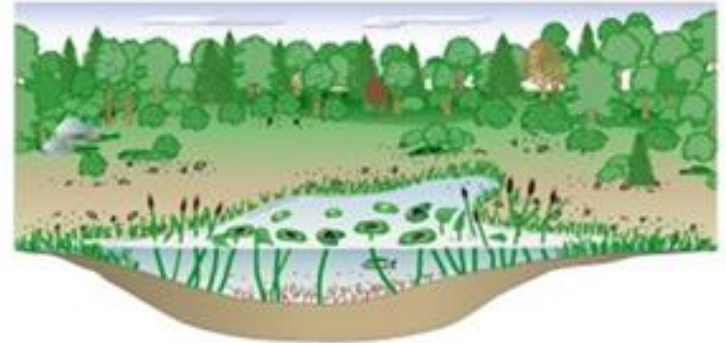
Succession After Human-Caused Disturbances

Can be unpredictable depending on the level of disturbance



Aquatic Succession

- Begins with a body of water such as a pond
- Over time sediments and decaying organisms build up and create soil which fills the pond or lake
- Eventually the pond or lake fills completely with soil and a land ecosystem develops—like a meadow



Studying Succession

Abandoned Parking Lot



Primary or Secondary?

Primary

Studying Succession

Mt. Saint Helens

Mount Saint Helens 1983–2004



1983



1989



1994



2004

Primary or Secondary?

Secondary