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Study Title: Changes in the lakes within the Mount St. Helens blast zone

Key Words: biological physical aquatic chemical lake

blowdown zone archives

Abstract: We will study changes in two lakes (Meta and Ryan) since the blast. Analysis will consist of analyzing physical and chemical properties of soils and entering these data into a GIS to model the amount of runoff in each watershed. The other focus will look at nutrients and plankton within each lake and conducting experiments to determine the effects of different levels of nutrients and predation on the plankton.

Research Sites: Meta Lake, Ryan Lake

Type of Measurements(s): Soil - particle size, erosion, moisture, nutrients.
Water - temperature, dissolved oxygen, conductivity, nutrients,
phytoplankton, light, chlorophyll, primary productivity, zooplankton

Frequency of Measurement(s): twice a month

Data Storage: Access and Idrisi (GIS)

Long-term plans, Data available for collaborative efforts: We plan on sharing data with Charlie Crisafulli of the Mount St. Helens Monument as he is studying the fish and amphibians at these lakes.