

Lab work at the USGS Mercury Research Lab, Madison WI



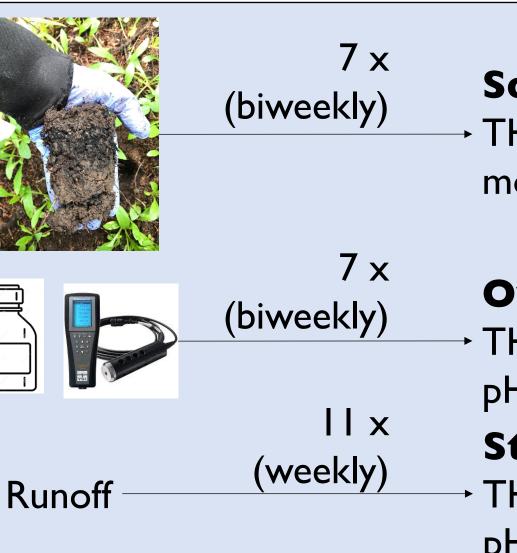
Acknowledgements:



Niwot Ridge LTER







Soil Cores THg, MeHg, sulfate, SOM, moisture, total CNS, redox

Overlying water THg, MeHg, sulfate, DOC, pH, DO, T Stream runoff THg, MeHg, sulfate, DOC, pH, DO, T

2. Additions of sulfate 0.020 stimulate MeHg 0.015 production \rightarrow release of 0.010 V sulfate from melting 0.005 permafrost and rock 0.000 glaciers could exacerbate mercury methylation

3. MeHg production in wetlands impacts downstream ecosystems A higher MeHg in subalpine wetland outlet and subalpine stream

4. Greater MeHg accumulation in organisms feeding from aquatic regions on the landscape and at higher trophic levels

I. Alpine and subalpine wetlands store MeHg at levels comparable to wetlands in the Arctic

(g/g)

MeH

Soil

