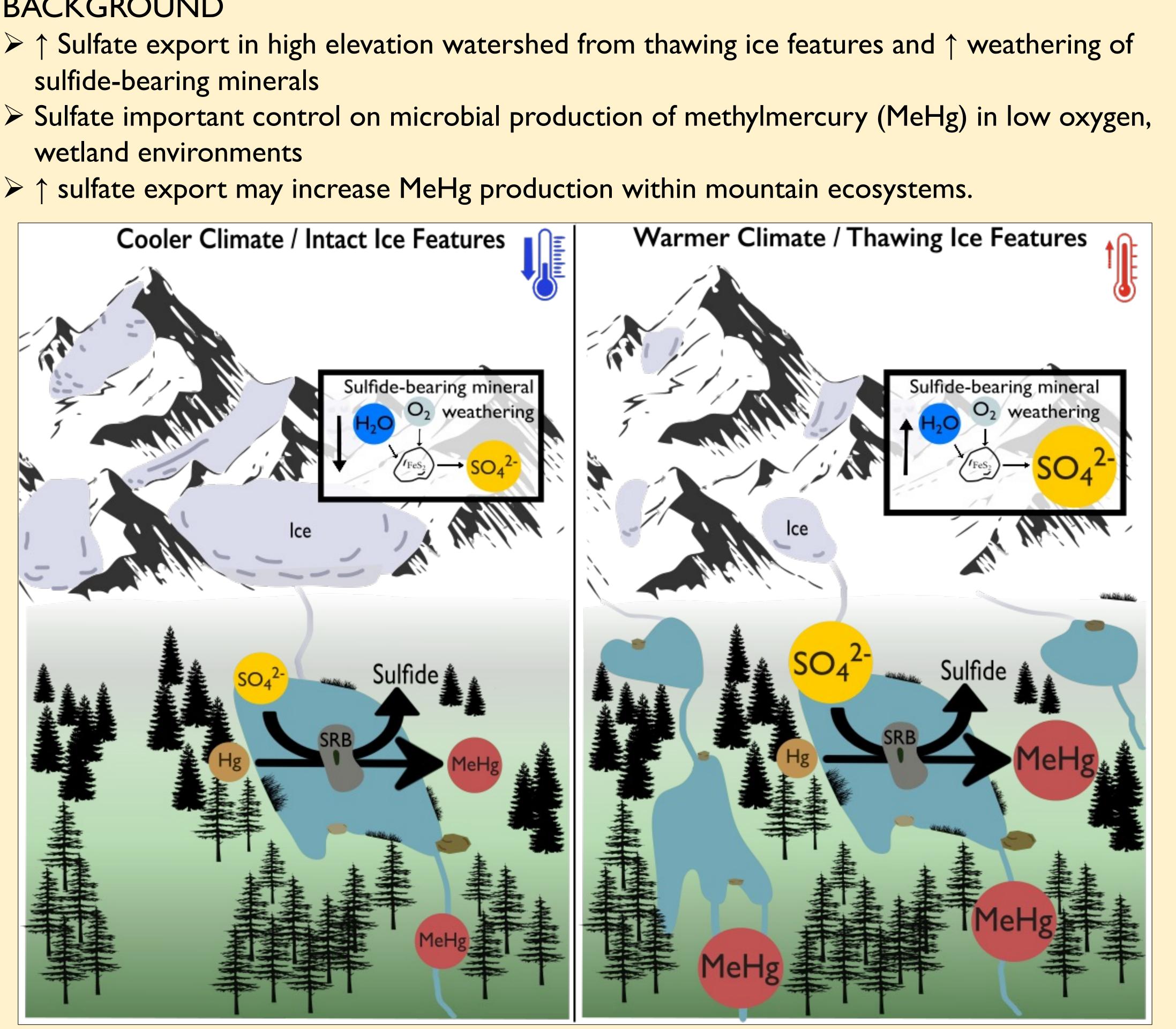
Sulfate stimulates methylmercury production in subalpine peatlands: Local studies in the Colorado **Rockies and their implications globally**

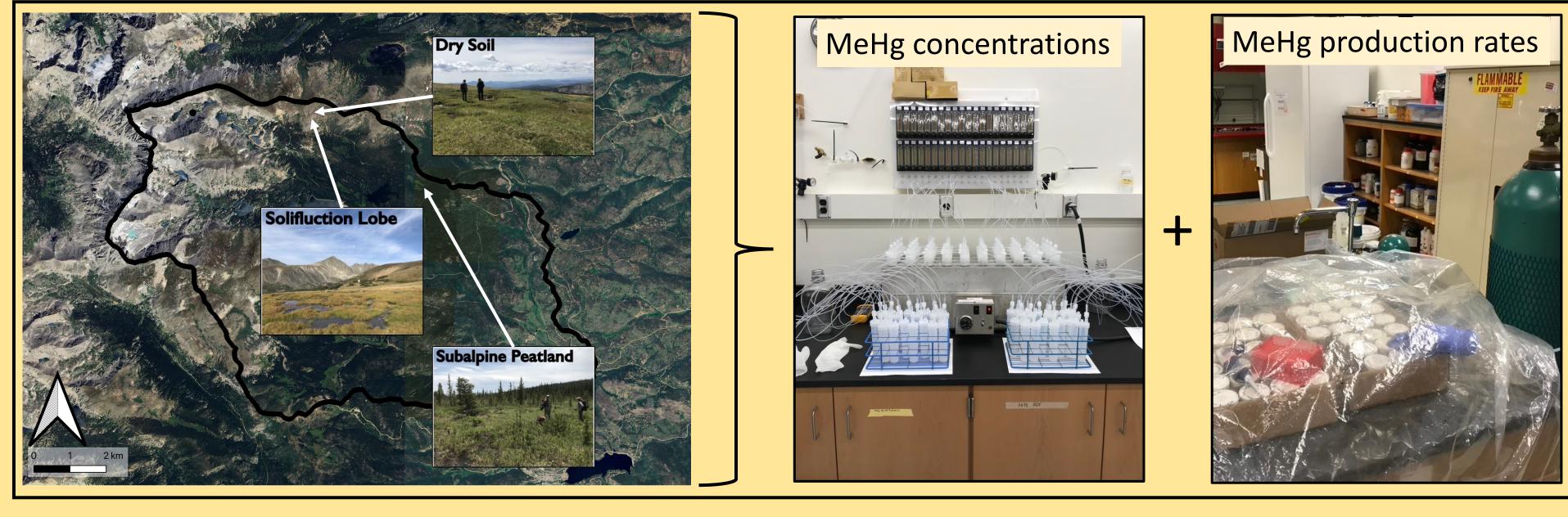
Hannah R. Miller^{1,2}, Charley T. Driscoll³, Sarah E. Janssen⁴, Eve-Lyn Hinckley^{1,2} ¹ Cooperative Institute for Research in the Environmental Science. ² University of Colorado Ecology and Evolutionary Biology Department. ³ Syracuse University Department of Civil and Environmental Engineering.⁴ United States Geological Survey Mercury Research Lab.

BACKGROUND

- sulfide-bearing minerals
- wetland environments



STUDY SITE AND METHODS \blacktriangleright North Boulder Watershed: ~10 wetland cover, 300% \uparrow in sulfate export over past 30 years





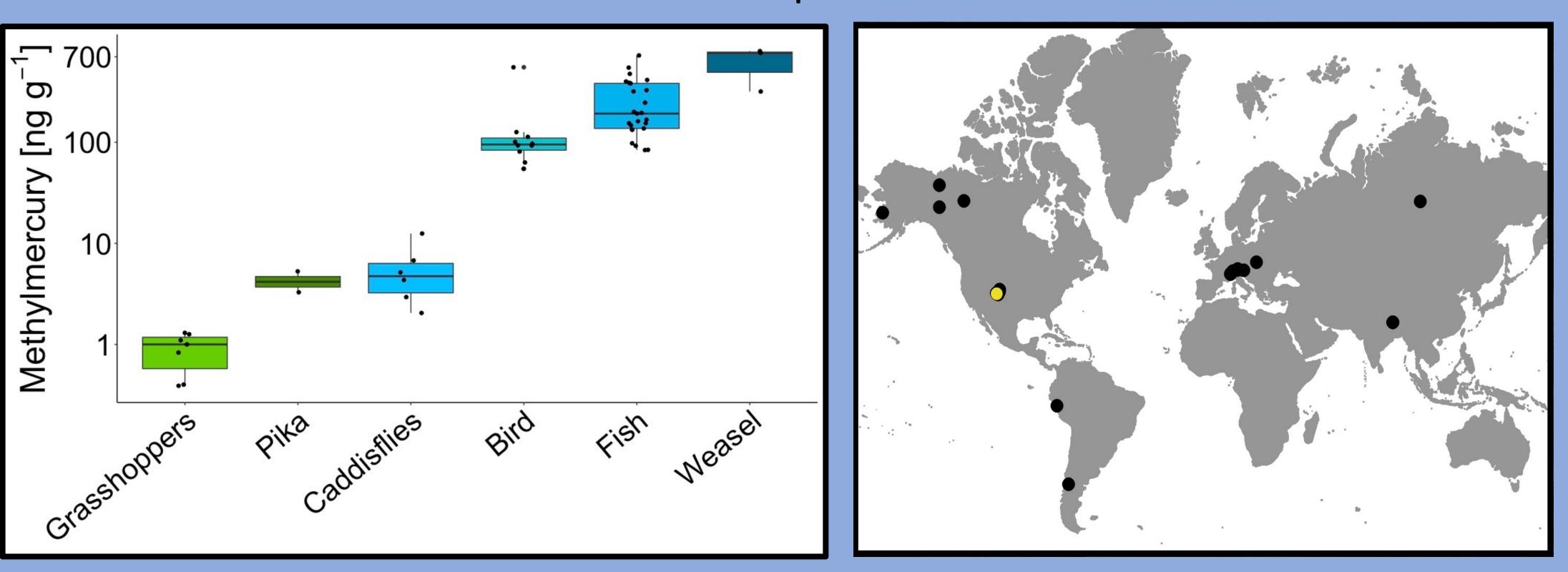


Niwot Ridge LTER RSITY OF COLORADO BOULDER

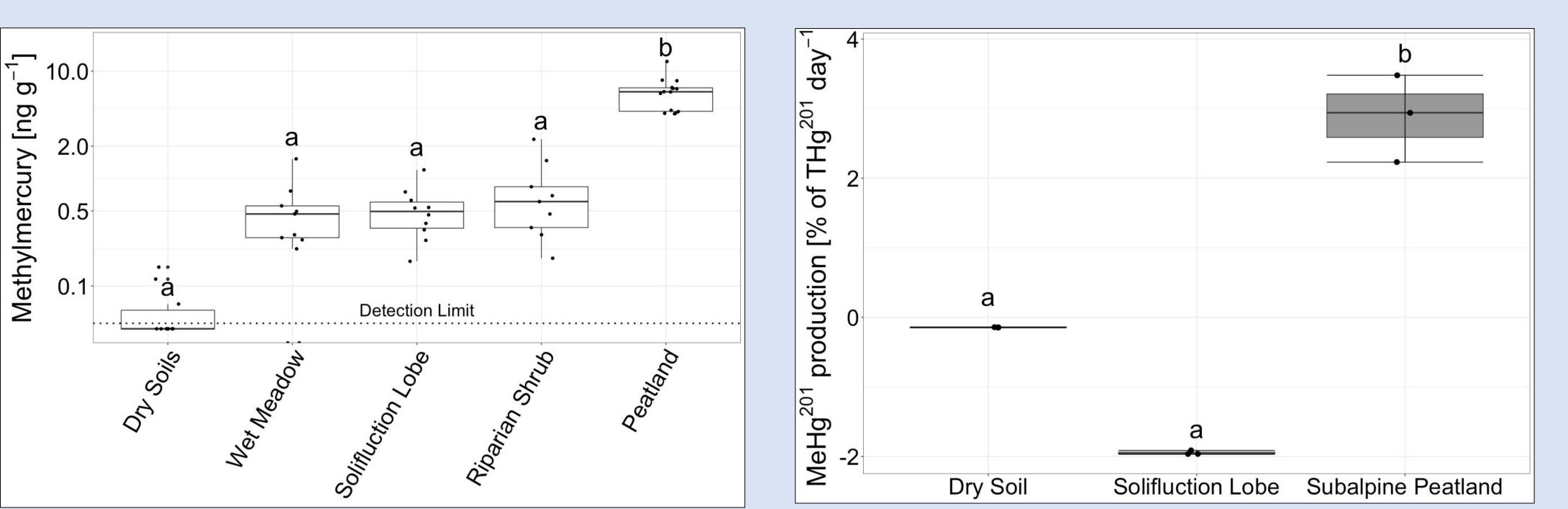




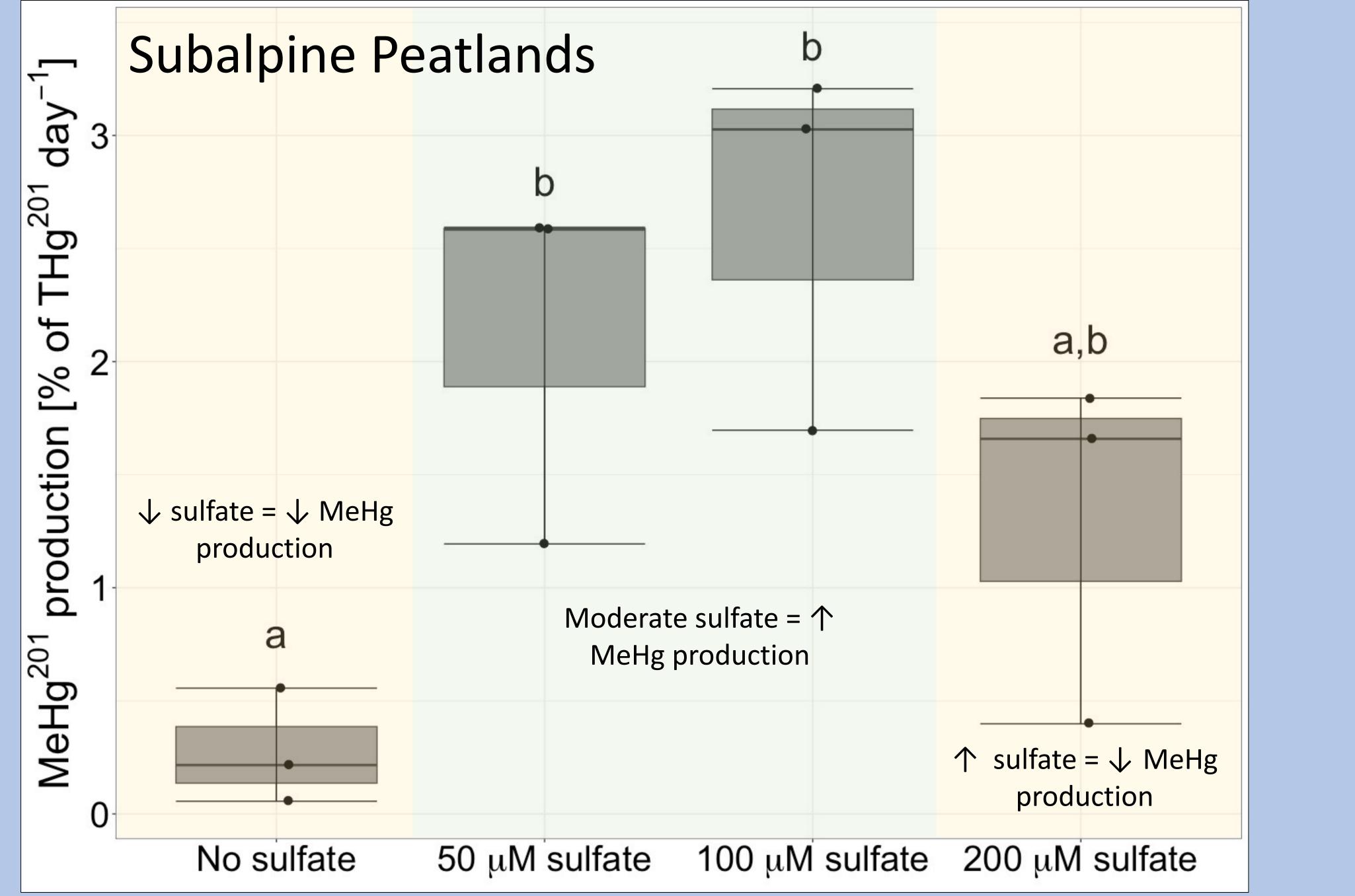
Ecology and Evolutionary Biology JNIVERSITY OF COLORADO BOULDER



MeHg concentrations and production rates highest in subalpine peatlands



Subalpine peatlands sulfate-limited. Continued export of sulfate from high elevation ecosystems could stimulate increased MeHg production.



Broader Implications

