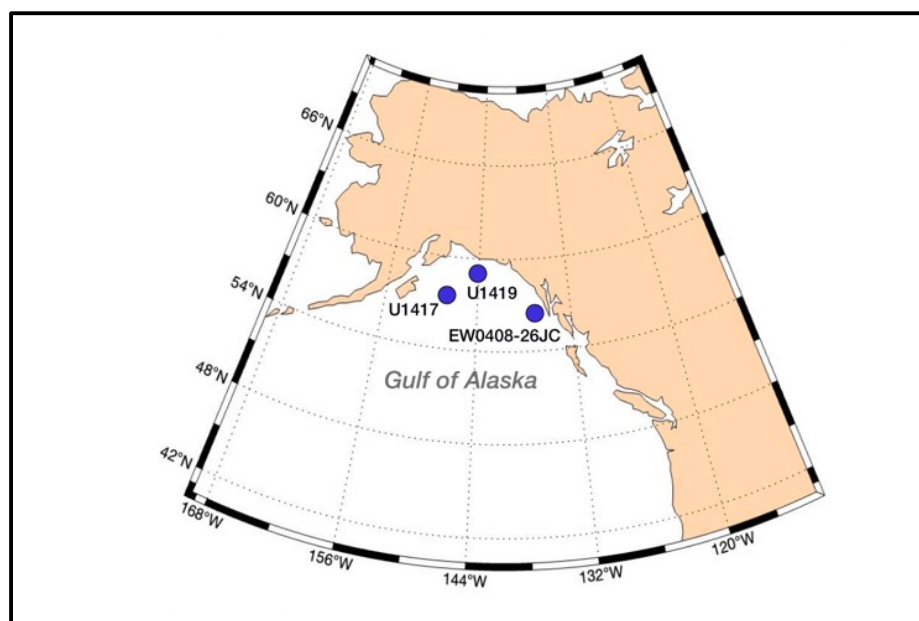
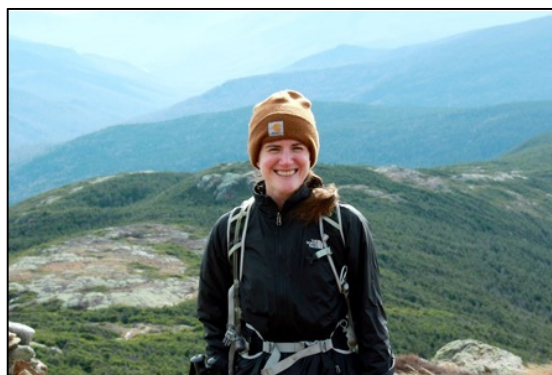


# Cordilleran Ice Sheet history from cosmogenic nuclides in ice-rafted debris

*Boston College*



Our goal is to examine Cordilleran Ice Sheet processes, including erosion history and sensitivity to climate shifts, over millions of years. While terrestrial cosmogenic nuclide concentrations are often “reset” during each glaciation, cosmogenic nuclides in ice-rafted debris (IRD) offer an opportunity to reconstruct ice sheet process over multiple glacial cycles. We will measure  $^{10}\text{Be}$  and  $^{26}\text{Al}$  in quartz isolated from IRD in three North Pacific sediment cores near the former ice sheet margin. Combined with prior work, our data will also help to constrain contributions to past sea level changes.



**Visitor:** Calen Rubin

**Visit dates:** March 4–8, 2024

Calen is a PhD student at Boston College. She uses a multi-proxy approach to reconstruct long-term North American ice sheet history and climate conditions. When she’s not in the lab, she enjoys reading, winter hiking, and trying new recipes.