

## **ES02: Hazards and landscape response in the high mountains**

**Conveners:** Dan H. Shugar<sup>1</sup>, Jeffrey S. Kargel<sup>2</sup>, Marten Geertsema<sup>3</sup>

**Co-chairs:** Dan H. Shugar<sup>1</sup>, Jeffrey S. Kargel<sup>2</sup>, Marten Geertsema<sup>3</sup>

<sup>1</sup> School of Interdisciplinary Arts and Sciences, University of Washington Tacoma, WA, 98405, USA; Phone: 253-692-4926 E-mail: [dshugar@uw.edu](mailto:dshugar@uw.edu)

<sup>2</sup> Department of Hydrology and Water Resources, University of Arizona, Tucson, AZ, 85721, USA; Phone: 520-780-7759 E-mail: [jeffreyskargel@hotmail.com](mailto:jeffreyskargel@hotmail.com)

<sup>3</sup> Ministry of Forests, Lands and Natural Resource Operations, Government of British Columbia, Prince George, BC, V2N 4W5, USA; Phone: 250-565-6923 E-mail: [Marten.Geertsema@gov.bc.ca](mailto:Marten.Geertsema@gov.bc.ca)

### **Session Description**

Glacial thinning and retreat drives the destabilization of mountain systems, often resulting in catastrophic geomorphic processes and sediment cascades that can impact people and infrastructure downstream. Glacier debuitressing can lead to landslides and rock avalanches, thawing permafrost can destabilize slopes, and proglacial lakes can drain. The frequency of many of these geohazards seems to be increasing globally, suggesting a link to climate change. This session highlights studies that address issues of landscape change in high mountains that lead to geohazards. We welcome modeling, remote sensing, field, or theoretical studies, and from anywhere in the world.

**Primary Affiliation:** Earth Surface Processes