Dynamic ice here and there: experimental studies to understand the mechanical behavior of both terrestrial and planetary ice

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Abstract. Fleeting on our planet, seemingly ubiquitous in the solar system, ice is one of the most common yet most enigmatic of materials. Research in my lab seeks to understand everything from Antarctic ice stream flow rates and tidal modulation to mechanical heating mechanisms on icy moons of the outer solar system. I will present results from experimental studies on the frictional and anelastic properties of ice and ice mixtures and discuss how these may influence habitability here and there.