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Dynamics of subglacial floods

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The Nye model of jökulhlaups is able to explain both their periodicity, and even the detailed shape of the flood hydrograph. In this talk we will discuss some of the contentious issues in this model, such as the rôle of temperature, channel shape, and bed roughness, and will explore how the model can be adapted to fit a variety of hydrographs, and what it has to say concerning recently observed Antarctic jökulhlaups.