



A new way to estimate future dynamic ice loss

Mark Siddall (1), Jonathan Bamber (1), Stephen Sparks (1), Roderik van de Wal (2), Anders Carlson (3), Rupert Gladstone (4), Aimée Slaggen (2), Faezeh Nick (2,5)

(1) University of Bristol, Earth Sciences, Bristol, United Kingdom (mark.siddall@bristol.ac.uk), (2) Institute for Marine and Atmospheric research Utrecht, Utrecht University, Netherlands, (3) Dept. of Geoscience and Center for Climatic Research, University of Wisconsin-Madison, USA, (4) Arctic Centre, University of Lapland, Rovaniemi, Finland, (5) Laboratoire de Glaciologie, Université Libre de Bruxelles, Belgium

Quantifying future dynamic ice loss is very challenging and may not be suited to deterministic modelling. Here we propose a different approach based on concepts outside of the ice sheet community. Floods, hurricanes, earthquakes and volcanoes are just some of the complex, multi-faceted systems that have been hazard assessed. We will discuss new work applying these tools to better understand the contribution of dynamic ice loss to future sea level rise.