

# Monitoring Greenland ice sheet buoyancy-driven calving discharge using glacial earthquakes

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**ABSTRACT.** Since the 2000s, Greenland ice sheet mass loss has been accelerating, followed by increasing numbers of glacial earthquakes (GEs) at near-grounded glaciers. GEs are caused by calving of km-scale icebergs which capsizes against the terminus. Seismic record inversion allows a reconstruction of the history of GE sources which captures capsizing dynamics through iceberg-to-terminus contact. When compared with a catalog of contact forces from an iceberg capsizing model, seismic force history accurately computes calving volumes while the earthquake magnitude fails to uniquely characterize iceberg size, giving errors up to 1 km<sup>3</sup>. Calving determined from GEs recorded at eight glaciers in 1993–2013 accounts for up to 21% of the associated discharge and 6% of the Greenland mass loss. The proportion of discharge attributed to capsizing calving may be underestimated by at least 10% as numerous events could not be identified by standard seismic detections (Olsen and Nettles, 2018). While calving production tends to stabilize in East Greenland, Western glaciers have released more and larger icebergs since 2010 and have become major contributors to Greenland dynamic discharge. Production of GEs and calving behavior are controlled by glacier geometry with bigger icebergs being produced when the terminus advances in deepening water. We illustrate how GEs can help in partitioning and monitoring Greenland mass loss and characterizing capsizing dynamics.

**KEYWORDS:** climate change, glacier calving, glacier discharge, iceberg calving, seismology

## INTRODUCTION AND BACKGROUND

The Greenland ice sheet (GrIS) mass loss and its contribution to sea-level rise has more than quadrupled from 1991–2001 to 2002–11 (Shepherd and others, 2012) due to both increased discharge of ice to the ocean and decreased surface mass balance (Van den Broeke and others, 2009, 2016; Enderlin and others, 2014; Velicogna and others, 2014; Khan and others, 2014). The partitioning of mass loss between dynamic (i.e. changes in ice flow, thinning and calving rates) and surface processes is important because these losses indicate different forcing (Howat and others, 2011). While surface mass balance is driven by atmospheric processes, tidewater glacier dynamics are driven by changes in resistive stress at the terminus (e.g. Nick and others, 2009), likely triggered by changing ocean conditions (Holland and others, 2008; Straneo and others, 2010), and further modulated by glacier geometry (Howat and others, 2005, 2007; Joughin and others, 2008b, 2014; Enderlin and others,

2013; Moon and others, 2014; Felikson and others, 2017; Kehel and others, 2017).

Between one third and one half of the annual GrIS (see Appendix A for definition of acronyms) mass is lost at the termini of tidewater glaciers (Van den Broeke and others, 2009; Enderlin and others, 2014). Iceberg calving and submarine melting are collectively known as dynamic discharge. They are notoriously difficult to quantify separately (Bern and others, 2017b). One goal of this study is to provide independent measurements of the GrIS discharge related to the calving of large rolling icebergs from emitted seismic signals, known as glacial earthquakes (GEs). The characterization of icebergs is important as calving rates are projected to increase during the coming decades and play a significant role in the stability of the entire GrIS (Rignot and Kanagaratnam, 2006; Rignot and others, 2011). Icebergs carry and release freshwater far from the glacier as they drift offshore (Enderlin and others, 2016; Wagner and others, 2017) and can potentially affect the large-scale ocean overturning circulation and ocean temperature (Fichefet and others, 2003; Holland and others, 2008; Wilson and others, 2015; Yang and others, 2016; Stern and others, 2016).

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welcomed a reduction in marginal cost they never anticipated the possibility of a technological revolution that might bring marginal costs to near zero making goods and services priceless nearly free and abundant and no longer subject to market forces Now a formidable new technology infrastructure the Internet of things IoT is emerging with the potential of pushing large segments of economic life to near zero marginal cost in the years ahead Rifkin describes how the Communication Internet is converging with an Energy Internet and Logistics Internet to create a new technology platform that connects all There are billions of sensors feeding Big Data into an IoT global neural network Prosumers can connect to the network and use Big Data analytics and algorithms to accelerate efficiency dramatically increase productivity and lower the marginal cost of producing and sharing a wide range of products and services to near zero just like they now do with information goods The plummeting of marginal costs is spawning a hybrid economy part capitalist market and part Collaborative Commons with far reaching implications for society according to Rifkin Hundreds of millions of people are already transferring parts of their economic lives to the global Collaborative Commons Prosumers are plugging into the IoT and making and sharing their own information entertainment green energy and 3D printed products at near zero marginal cost Students are enrolling in free massive open online courses MOOCs that operate at near zero marginal cost Social entrepreneurs are even bypassing the banking establishment and using crowdfunding to finance startup businesses as well as creating alternative currencies in the fledgling sharing economy In this new world social capital is as important as financial capital access trumps ownership sustainability supersedes consumerism cooperation ousts competition and exchange value in the capitalist marketplace is increasingly replaced by sharable value on the Collaborative Commons Rifkin concludes that capitalism will remain with us albeit in an increasingly streamlined role primarily as an aggregator of network services and solutions allowing it to flourish as a powerful niche player in the coming era We are however says Rifkin entering a world beyond markets where we are learning how to live together in an increasingly interdependent global Collaborative Commons

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