



## **An overview of fast-flowing glaciers on Svalbard from satellite SAR speckle tracking and matching of repeat optical images**

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Fast-flowing, calving glaciers on Svalbard are an important factor in the mass balance of the archipelago's glaciers. Many, if not most Svalbard glaciers are believed to be of surge-type, so that glacier flow speed may vary substantially over years and decades. The study presented here provides a current-day snapshot of fast-flowing glaciers over Svalbard. SAR speckle tracking based on repeat Radarsat-1 SAR data from 2007 and 2008 was used for an overview map. Matching of repeat optical satellite images complements these measurements for selected areas.