



## **Elevation and mass changes of North Atlantic glaciers and ice caps**

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Cryosat-2, launched in April 2010, provides repeat height measurements of land surfaces between 88N and 88S. Unlike earlier radar altimeters, Cryosat-2 provides dense groundtrack coverage and is able to geolocate off-nadir radar echoes. These characteristics make Cryosat-2 measurements well suited for determining elevation change rates of ice caps and glaciers that are characterized by more complex topographic relief than the much larger ice sheets. Using a new pseudo-repeat track processing method, we study elevations trends (2010-2014) of the North-Atlantic glaciers and ice caps. We compare altimetry volume change results to GRACE mass anomalies and discuss possible causes of the observed changes.