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A NEW WAY TO DETECT AND FORECAST SEA ICE AND ICEBERGS IN THE ARCTIC WITH THE ACCIBERG PROJECT

Abstract

The Arctic ocean will always be treacherous. Sea ice and icebergs are a major risk in Arctic waters; therefore, forecasting and monitoring them is crucial. While the Copernicus Marine and Climate Change Services can provide this information, users may not benefit from it as intended because of a lack of consistency and uncertainty estimates. The EU-funded ACCIBERG project will address this issue. It will develop a new iceberg forecast service using remote sensing algorithms, data assimilation and cloud computing and consistently offer probabilistic sea ice and iceberg forecasts based on Copernicus data. The new forecasts will be automated and used by various groups navigating in the Arctic – from fisheries to cruise tourism.