

Project: Antarctica\_Ice\_Sheet\_cci

Topic: Publications list

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<b>Title</b>	<b>Journal</b>	<b>Year</b>	<b>Authors</b>
Antarctic mass balance from CryoSat	Geophysical Research Letters	2014	Andrew Shepherd
Mass balance of the Amundsen sea sector, West Antarctica, 1992-2016		2016	Andrew Shepherd
A 25-year record of Antarctic ice sheet mass balance from satellite altimetry		2016	Andrew Shepherd, Anna Hogg
Pace and onset of ice drawdown in West Antarctica		2016	Andrew Shepherd
A calculation of ice sheet mass balance accounting for modelled firn compaction		2016	Andrew Shepherd
Five decades of strong temporal variability in the flow of Brunt Ice Shelf, Antarctica.	Journal Glaciology	2016	G. Hilmar Gudmundsson, Jan De Rydt, Thomas Nagler
West Antarctic glaciers	Eos	2017	Hannes Konrad/Andy Shepherd
Improvements in ice sheet sea level projections	Nature Climate Change	2017	Andrew Shepherd
Impacts of the Larsen-C ice shelf calving event	Nature Climate Change	2017	Anna Hogg
High resolution RACMO Amundsen Sea	Annals of Glaciology	2017	Anna Hogg
Dotson ice shelf basal melting	Geophysical Research Letters	2017	Anna Hogg/Andy Shepherd
Observationally constrained surface mass balance of Larsen C Ice Shelf, Antarctica	The Cryosphere	2017	Andrew Shepherd
Increased ice flow in Western Palmer Land linked to ocean melting	Geophysical Research Letters	2017	Anna Hogg et al
Commentary: Impacts of the Larsen-C Ice Shelf calving event	Nature Climate Change	2017	Anna Hogg
Improvements in ice-sheet sea-level projections	Nature Climate Change	2017	Andrew Shepherd
Assessment of CryoSat-2 interferometric and non-interferometric SAR altimetry over ice sheets	Advances in Space Research	2017	Andrew Shepherd
Channelized Melting Drives Thinning Under a Rapidly Melting Antarctic Ice Shelf	Geophysical Research Letters	2017	Andrew Shepherd
Mapping Ice Sheet Grounding Lines With CryoSat-2	Advances in Space Research	2018	Anna Hogg, Andy Shepherd
Net retreat of Antarctic glacier grounding lines	Nature Geoscience	2018	Andrew Shepherd

A new Digital Elevation Model of Antarctica derived from CryoSat-2 altimetry	The Cryosphere	2018	Andrew Shepherd
Trends and connections across the Antarctic cryosphere.	Nature	2018	Andrew Shepherd
Antarctic ice losses tracking high	Nature Climate Change	2018	Andrew Shepherd
Recent rift formation and impact on the structural integrity of the Brunt Ice Shelf, East Antarctica	The Cryosphere	2018	J. De Rydt et al.
Modelling the climate and surface mass balance of polar ice sheets using RACMO2, part 2: Antarctica (1979–2016).	The Cryosphere	2018	J.M. van Wessem
Changing pattern of ice flow and mass balance for glaciers discharging into the Larsen A and B embayments, Antarctic Peninsula, 2011 to 2016	The Cryosphere	2018	H. Rott et al.
Mass balance of the Antarctic Ice Sheet from 1992 to 2017	Nature	2018	Shepherd et al
An automated System for Ice Velocity Measurement from SAR	EUSAR 2018 Conference	2018	A. Kusk, J.P. Merryman Boncori, J. Dall
Decorrelation of GRACE Time Variable Gravity Field Solutions Using Full Covariance Information	Geosciences	2018	Alexander Horvath
Trends in Antarctic ice sheet elevation and mass	Geophysical Research Letters	2019	Andrew Shepherd
Observations of surface mass balance on Pine Island Glacier, West Antarctica, and the effect of strain history in fast-flowing sections.	Journal of Glaciology	2019	Andrew Shepherd
Sentinel-3 Delay-Doppler altimetry over Antarctica	The Cryosphere	2019	Andrew Shepherd
Calving cycle of the Brunt Ice Shelf, Antarctica, driven by changes in ice-shelf geometry	The Cryosphere	2019	J. De Rydt et al.
Sub-Annual Calving Front Migration, Area Change and Calving Rates from Swath Mode CryoSat-2 Altimetry, on Filchner-Ronne Ice Shelf, Antarctica	Remote Sensing	2019	Wuite et al.
Evaluating gravimetric mass balance time series for the Antarctic and Greenland Ice Sheet – ESA ice sheets CCI round robin results	Geosciences	2019	Andreas Groh
Improved Ice Velocity Measurements with Sentinel-1 TOPS Interferometry	Remote Sens. 2020, 12(12), 2014; <a href="https://doi.org/10.3390/rs12122014">https://doi.org/10.3390/rs12122014</a>	2020	Jonas Kvist Andersen et al.
Damage accelerates ice shelf instability and mass loss in Amundsen Sea Embayment.	Proceedings of the National Academy of Science	2020	Lhermitte et al.
Impact of marine processes on flow dynamics of northern Antarctic Peninsula outlet glaciers.	Nature Communications	2020	Rott et al.

Ice-sheet losses track high-end sea-level rise projections.	Nature Climate Change	2020	Slater et al.
Repeat Subglacial Lake Drainage and Filling Beneath Thwaites Glacier	Geophysical Research Letter	2020	Malczyk et al. (Jan Wuite/Thomas Nagler)
Widespread increase in dynamic imbalance in the Getz region of Antarctica from 1994 to 2018	Nature Communications	2021	Selley et al.; Wuite & Nagler
Projected land ice contributions to twenty-first-century sea level rise.	Nature	2021	Andrew Shepherd
Altimetry for the future: Building on 25 years of progress	Advances in Space Research	2021	Andrew Shepherd
Widespread increase in dynamic imbalance in the Getz region of Antarctica from 1994 to 2018	Nature Communications	2021	Andrew Shepherd
Review article: Earth's ice imbalance	The Cryosphere	2021	Andrew Shepherd
Antarctic Ice Mass Change Products from GRACE/GRACE-FO Using Tailored Sensitivity Kernels	Remote Sensing	2021	Andreas Groh
The influence of Antarctic ice loss on polar motion: an assessment based on GRACE and multi-mission satellite altimetry	Earth, Planets and Space	2021	Göttl
Projected land ice contributions to twenty-first-century sea level rise.	Nature	2021	Andrew Shepherd
Altimetry for the future: Building on 25 years of progress	Advances in Space Research	2021	Andrew Shepherd
Widespread increase in dynamic imbalance in the Getz region of Antarctica from 1994 to 2018	Nature Communications	2021	Andrew Shepherd
Review article: Earth's ice imbalance	The Cryosphere	2021	Andrew Shepherd
Future Sea Level Change Under Coupled Model Intercomparison Project Phase 5 and Phase 6 Scenarios From the Greenland and Antarctic Ice Sheets	GEOPHYSICAL RESEARCH LETTERS. 48(16)	2021	Andrew Shepherd
Projected land ice contributions to twenty-first-century sea level rise	Nature. 593(7857), pp. 74-82	2021	Andrew Shepherd
Seasonal land ice-flow variability across the Antarctic Peninsula	The Cryosphere	2022	Boxall et al.
Global sea-level budget and ocean-mass budget, with a focus on advanced data products and uncertainty characterisation	Earth System Science Data	2022	Horwath, M et al.
The sensitivity kernel perspective on GRACE mass change estimates	submitted to Journal of Geodesy	2021	Döhne, Horwath, Groh et al.
Accounting for GIA signal in GRACE products	Geophysical Journal International	2021	B.D.Vishwakarma, Andreas Groh, Martin Horwath
Antarctic Ice Mass Change Products from GRACE/GRACE-FO Using Tailored Sensitivity Kernels	Remote Sensing	2021	Andreas Groh