

Project: Greenland_Ice_Sheet_cci Topic: Publications list

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Title	Journal	Year	Authors
ESA ice sheet CCI: derivation of the optimal method for surface elevation change detection of the Greenland ice sheet – round robin results	International Journal of Remote Sensing Volume 36, - Issue 2	2015	J.F. Levinsen, K. Khvorostovsky, F. Ticconi, A. Shepherd, R. Forsberg, L.S. Sørensen, A. Muir, et al.
Mass changes in Arctic ice caps and glaciers: implications of regionalizing elevation changes	The Cryosphere, 9, 139-150, 2015. www.the-cryosphere.net/9/139/2015/doi:10.5194/tc-9-139-2015	2015	J. Nilsson, L. Sandberg Sørensen, V. R. Barletta, and R. Forsberg
Envisat-derived elevation changes of the Greenland ice sheet, and a comparison with ICESat results in the accumulation area	Remote Sensing of Environment 160	2015	L. S. Sørensen, S. B. Simonsen, R. Meister, R. Forsberg, J. F. Levinsen & T. Flament
The Sentinel-1 Mission: New Opportunities for Ice Sheet Observations	Remote Sensing	2015	T. Nagler et al.
Grounding line migration from 1992 to 2011 on Petermann Glacier, North-West Greenland	Journal of Glaciology, 62(236) 1104–1114	2016	A. E. Hogg, A. Shepherd, N. Gourmelen, M. Engdhal
Implications of changing scattering properties on Greenland ice sheet volume change from Cryosat-2 altimetry	Remote Sensing of Environment	2016	S. B. Simonsen and L. S. Sørensen
Overview of Two Decades of Coordinated Satellite SAR Data Acquisitions over Polar Regions		2016	Polar Space Task Group, SAR Coordination Working Group; contr. By Nagler, Floricioiu
Data Compendium - Summary Documentation of SAR Satellite Data. Collections, Plans and Activities. Data Collections, Plans and Activities	Saint Hubert, QC, Canada, 44 p.	2016	Polar Space Task Group, SAR Coordination Working Group; contr. By Nagler, Floricioiu
The Impact of DEM Resolution on Relocating Radar Altimetry Data Over Ice Sheets	IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, VOL. 9, NO. 7, JULY 2016	2016	J. F. Levinsen, S. B. Simonsen, L. Sandberg Sørensen, and R. Forsberg

Greenland and Antarctica Ice Sheet Mass Changes and Effects on Global Sea Level.	Surveys in Geophysics (2017) 38: 89. doi:10.1007/s10712-016-9398-7	2017	Forsberg, R., Sørensen, L. & Simonsen, S
Improved retrieval of land ice topography from CryoSat-2 data and its impact for volume-change estimation of the Greenland Ice Sheet	The Cryosphere. 10, 6, p. 2953-2969		Nilsson, J., Gardner, A., Sørensen, L. S. & Forsberg, R.
An automated System for Ice Velocity Measurement from SAR	European Conference on Synthetic Aperture Radar (EUSAR)	2018	A.Kusk, J.P. Merryman Boncori and J. Dall
Application of PROMICE Q-transect in-situ accumulation and ablation measurements (2000-2017) to constrain mass balance at the Southern tip of the Greenland ice sheet	JGR-Earth Surface	2018	Hermann et al.
Intercomparison and Validation of SAR-Based Ice Velocity Measurement Techniques within the Greenland Ice Sheet CCI Project.	Remote Sensing	2018	Boncori et al.
New baseline for Greenland meltwater runoff and iceberg discharge	Nature Communications	2018	W. Colgan, K. D. Mankoff, et al.
Simulating ice thickness and velocity evolution of Upernavik Isstrøm 1849-2012 by forcing prescribed terminus positions in ISSM.	The Cryosphere	2018	Haubner, K. and Box, J. E. et al.
25 years of elevation changes of the Greenland Ice Sheet from ERS, Envisat, and CryoSat-2 radar altimetry	Earth and Planetary Science Letters. 495, p. 234-241, 2018.	2018	Sørensen, L. S., Simonsen, S. B., Forsberg, R., Khvorostovsky, K., Meister, R. & Engdahl, M. E
Intercomparison and Validation of SAR-Based Ice Velocity Measurement Techniques within the Greenland Ice Sheet CCI Project	Remote Sensing	2018	J.P. Merryman Boncori, M. Langer Andersen, J. Dall, A. Kusk et al.
An Integrated View of Greenland Ice Sheet Mass Changes Based on Models and Satellite Observations	Remote Sensing 11 (12), 1407; https://doi.org/10.3390/rs11121407	2019	Mottram, R; B Simonsen, S.; Høyer Svendsen, S.; Barletta, V.R.; Sandberg Sørensen, L.; Nagler, T.; Wuite, J.; Groh, A.; Horwath, M.; Rosier, J.; Solgaard, A.; Hvidberg, C.S.; Forsberg, R
Evaluating GRACE mass change time series for the Antarctic and Greenland Ice Sheet – methods and results	Geosciences	2019	Andreas Groh
Mass balance of the Greenland Ice Sheet from 1992 to 2018	Nature (2019) doi:10.1038/s41586-019-1855-2	2019	Shepherd et al

Surge of Hagen Glacier	Geophysical Research Letters	2020	Anne Solgaard, Sebastian Simonsen, Aslak Grinsted, Louise Sørensen, Nanna Karlsson, Ruth Mottram et al
Surface velocity of the Northeast Greenland Ice Stream (NEGIS): Assessment of interior velocities derived from satellite data by GPS	The Cryosphere, 14, 3487–3502	2020	Hvidberg, C. S., Grinsted, A., Dahl-Jensen, D., Khan, S. A., Kusk, A., Andersen, J. K., Neckel, N., Solgaard, A., Karlsson, N. B., Kjær, H. A., and Vallelonga, P.
Improved Ice Velocity Measurements with Sentinel-1 TOPS Interferometry	<u>Remote Sensing. 2020, 12(12), 2014;</u> https://doi.org/10.3390/rs12122014	2020	Jonas Kvist Andersen, Anders Kusk, John Peter Merryman Boncori, Christine Schøtt Hvidberg, Aslak Grinsted
Continuous Monitoring of Ice Motion and Discharge of Antarctic and Greenland Ice Sheets and Outlet Glaciers by Sentinel-1 A & B	IEEE IGARSS 2021, Brussels, Belgium, July 11 – 16, 2021	2021	Nagler et al
Modeled and observed bedrock displacements in north-east Greenland using refined estimates of present-day ice-mass changes and densified GNSS measurements	Journal of Geophysical Research / Earth Surface	2021	Kappelsberger et al.
Greenland Ice Sheet mass balance (1992–2020) from calibrated radar altimetry	Geophysical Research Letters, https://doi.org/10.1029/2020GL091216	2021	Simonsen, S. B., Barletta, V. R., & Sørensen, L. S.
Burst Overlap Coregistration for Sentinel-1 TOPS DInSAR Ice Velocity Measurements	IEEE Geoscience and Remote Sensing Letters, doi: 0.1109/LGRS.2021.3062905	2021	Anders Kusk, Jonas Kvist Andersen, John Peter Merryman Boncori
Continuous Monitoring of Ice Motion and Discharge of Antarctic and Greenland Ice Sheets and Outlet Glaciers by Sentinel-1 A & B	IEEE IGARSS 2021, Brussels, Belgium, July 11 – 16, 2021	2021	Nagler et al.
COMPREHENSIVE ICE SHEET WIDE VELOCITY MAPPING COMBINING SAR INTERFEROMETRY AND OFFSET TRACKING	IEEE IGARSS 2022, Kuala Lumpur, Malaysia, July 17-22, 2022	2022	Nagler et al.