

CITATION REPORT

List of articles citing

Estimating the Greenland ice sheet surface mass balance contribution to future sea level rise using the regional atmospheric climate model MAR

DOI: 10.5194/tc-7-469-2013
Cryosphere, 2013, 7, 469-489.

Source: <https://exaly.com/paper-pdf/56550384/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
297	Semiempirical and process-based global sea level projections. 2013 , 51, 484-522		55
296	Future sea-level rise from Greenland's main outlet glaciers in a warming climate. <i>Nature</i> , 2013 , 497, 235-8	50.4	215
295	Influence of ablation-related processes in the build-up of simulated Northern Hemisphere ice sheets during the last glacial cycle. <i>Cryosphere</i> , 2013 , 7, 681-698	5.5	25
294	The future sea-level rise contribution of Greenland's glaciers and ice caps. <i>Environmental Research Letters</i> , 2013 , 8, 025005	6.2	18
293	Evidence and analysis of 2012 Greenland records from spaceborne observations, a regional climate model and reanalysis data. <i>Cryosphere</i> , 2013 , 7, 615-630	5.5	206
292	Enhanced basal lubrication and the contribution of the Greenland ice sheet to future sea-level rise. 2013 , 110, 14156-61		71
291	Ice-sheet mass balance and climate change. <i>Nature</i> , 2013 , 498, 51-9	50.4	217
290	Sensitivity of Greenland Ice Sheet Projections to Model Formulations. <i>Journal of Glaciology</i> , 2013 , 59, 733-749	3.4	91
289	Sea-Level and Ocean Heat-Content Change. 2013 , 697-725		8
288	The pattern of anthropogenic signal emergence in Greenland Ice Sheet surface mass balance. <i>Geophysical Research Letters</i> , 2014 , 41, 6002-6008	4.9	11
287	Assessing the role of sublimation in the dry snow zone of the Greenland ice sheet in a warming world. 2014 , 119, 6563-6577		16
286	Effect of uncertainty in surface mass balance elevation feedback on projections of the future sea level contribution of the Greenland ice sheet. <i>Cryosphere</i> , 2014 , 8, 195-208	5.5	58
285	Probabilistic parameterisation of the surface mass balance elevation feedback in regional climate model simulations of the Greenland ice sheet. <i>Cryosphere</i> , 2014 , 8, 181-194	5.5	20
284	Adding a dynamical cryosphere to <i>iESM-MO</i> LOVECLIM (version 1.0): coupling with the GRISLI ice-sheet model. <i>Geoscientific Model Development</i> , 2014 , 7, 1377-1394	6.3	21
283	Constructing scenarios of regional sea level change using global temperature pathways. <i>Environmental Research Letters</i> , 2014 , 9, 115007	6.2	16
282	Greenland Surface Mass Balance as Simulated by the Community Earth System Model. Part II: Twenty-First-Century Changes. <i>Journal of Climate</i> , 2014 , 27, 215-226	4.4	39
281	Hybrid inventory, gravimetry and altimetry (HIGA) mass balance product for Greenland and the Canadian Arctic. 2014 ,		4

280	Rapid dynamic activation of a marine-based Arctic ice cap. <i>Geophysical Research Letters</i> , 2014 , 41, 8902-8909	4.9	39
279	Upper limit for sea level projections by 2100. <i>Environmental Research Letters</i> , 2014 , 9, 104008	6.2	117
278	Probabilistic projections of the Atlantic overturning. 2014 , 127, 579-586		25
277	Loss of cultural world heritage and currently inhabited places to sea-level rise. <i>Environmental Research Letters</i> , 2014 , 9, 034001	6.2	91
276	Assessing spatio-temporal variability and trends in modelled and measured Greenland Ice Sheet albedo (2000-2013). <i>Cryosphere</i> , 2014 , 8, 2293-2312	5.5	46
275	Future climate warming increases Greenland ice sheet surface mass balance variability. <i>Geophysical Research Letters</i> , 2014 , 41, 470-475	4.9	20
274	A realistic freshwater forcing protocol for ocean-coupled climate models. 2014 , 81, 36-48		22
273	Impact of reduced Arctic sea ice on Greenland ice sheet variability in a warmer than present climate. <i>Geophysical Research Letters</i> , 2014 , 41, 3933-3942	4.9	19
272	Projecting twenty-first century regional sea-level changes. 2014 , 124, 317-332		246
271	Ice sheets as interactive components of Earth System Models: progress and challenges. 2014 , 5, 557-568		29
270	Spontaneous ice-front retreat caused by disintegration of adjacent ice shelf in Antarctica. 2014 , 393, 26-30		8
269	Atmospheric and oceanic climate forcing of the exceptional Greenland ice sheet surface melt in summer 2012. <i>International Journal of Climatology</i> , 2014 , 34, 1022-1037	3.5	150
268	Detection and Attribution of Climate Change: from Global to Regional. 867-952		77
267	Greenland high-elevation mass balance: inference and implication of reference period (1961-2000) imbalance. 2015 , 56, 105-117		22
266	Representing Greenland ice sheet freshwater fluxes in climate models. <i>Geophysical Research Letters</i> , 2015 , 42, 6373-6381	4.9	47
265	Considering thermal-viscous collapse of the Greenland ice sheet. <i>Earth's Future</i> , 2015 , 3, 252-267	7.9	15
264	Assessment of current methods of positive degree-day calculation using in situ observations from glaciated regions. <i>Journal of Glaciology</i> , 2015 , 61, 329-344	3.4	19
263	Future climate and surface mass balance of Svalbard glaciers in an RCP8.5 climate scenario: a study with the regional climate model MAR forced by MIROC5. <i>Cryosphere</i> , 2015 , 9, 945-956	5.5	23

262	Recent changes in north-west Greenland climate documented by NEEM shallow ice core data and simulations, and implications for past-temperature reconstructions. <i>Cryosphere</i> , 2015 , 9, 1481-1504	5.5	36
261	How do icebergs affect the Greenland ice sheet under pre-industrial conditions? A model study with a fully coupled ice-sheet-climate model. <i>Cryosphere</i> , 2015 , 9, 821-835	5.5	10
260	Stable climate and surface mass balance in Svalbard over 1979-2013 despite the Arctic warming. <i>Cryosphere</i> , 2015 , 9, 83-101	5.5	41
259	Fast retreat of Zacharijssström, northeast Greenland. 2015 , 350, 1357-61		113
258	A model study of the response of dry and wet firn to climate change. 2015 , 56, 1-8		20
257	Efficient meltwater drainage through supraglacial streams and rivers on the southwest Greenland ice sheet. 2015 , 112, 1001-6		122
256	An extreme event of sea-level rise along the Northeast Coast of North America in 2009-2010. <i>Nature Communications</i> , 2015 , 6, 6346	17.4	118
255	The Greenland Ice Sheet during the last glacial cycle: Current ice loss and contribution to sea-level rise from a palaeoclimatic perspective. 2015 , 150, 45-67		44
254	Increasing temperature forcing reduces the Greenland Ice Sheet's response time scale. <i>Climate Dynamics</i> , 2015 , 45, 2001-2011	4.2	17
253	Quantifying Energy and Mass Fluxes Controlling Godthåbsfjord Freshwater Input in a 5-km Simulation (1991-2012)*,+. <i>Journal of Climate</i> , 2015 , 28, 3694-3713	4.4	53
252	Recent Progress in Understanding and Projecting Regional and Global Mean Sea Level Change. 2015 , 1, 224-246		25
251	Hybrid glacier Inventory, Gravimetry and Altimetry (HIGA) mass balance product for Greenland and the Canadian Arctic. 2015 , 168, 24-39		13
250	Supraglacial lakes on the Greenland ice sheet advance inland under warming climate. 2015 , 5, 51-55		73
249	Basin-scale partitioning of Greenland ice sheet mass balance components (2007-2011). 2015 , 409, 89-95		53
248	Synthesizing long-term sea level rise projections in the MAGICC sea level model. 2016 ,		0
247	Application of GRACE to the assessment of model-based estimates of monthly Greenland Ice Sheet mass balance (2003-2012). <i>Cryosphere</i> , 2016 , 10, 1965-1989	5.5	18
246	Greenland Melt and the Atlantic Meridional Overturning Circulation. 2016 , 29, 22-33		9
245	On the recent contribution of the Greenland ice sheet to sea level change. <i>Cryosphere</i> , 2016 , 10, 1933-1946		283

244	Ice Sheet Model Intercomparison Project (ISMIP6) contribution to CMIP6. <i>Geoscientific Model Development</i> , 2016 , 9, 4521-4545	6.3	139
243	Feasibility of improving a priori regional climate model estimates of Greenland ice sheet surface mass loss through assimilation of measured ice surface temperatures. <i>Cryosphere</i> , 2016 , 10, 103-120	5.5	6
242	Greenland Ice Sheet seasonal and spatial mass variability from model simulations and GRACE (2003-2012). <i>Cryosphere</i> , 2016 , 10, 1259-1277	5.5	12
241	Annual Greenland accumulation rates (2009-2012) from airborne snow radar. <i>Cryosphere</i> , 2016 , 10, 1739-1752	5.5	54
240	The darkening of the Greenland ice sheet: trends, drivers, and projections (1981-2010). <i>Cryosphere</i> , 2016 , 10, 477-496	5.5	120
239	Differential climate impacts for policy-relevant limits to global warming: the case of 1.5 °C and 2 °C. <i>Earth System Dynamics</i> , 2016 , 7, 327-351	4.8	377
238	Effects of Scale and Input Data on Assessing the Future Impacts of Coastal Flooding: An Application of DIVA for the Emilia-Romagna Coast. 2016 , 3,		23
237	Improved retrieval of land ice topography from CryoSat-2 data and its impact for volume-change estimation of the Greenland Ice Sheet. <i>Cryosphere</i> , 2016 , 10, 2953-2969	5.5	44
236	The atmospheric role in the Arctic water cycle: A review on processes, past and future changes, and their impacts. 2016 , 121, 586-620		136
235	Impact of cyclonic and anticyclonic activity on Greenland ice sheet surface mass balance variation during 1980-2013. <i>International Journal of Climatology</i> , 2016 , 36, 3423-3433	3.5	7
234	Quantifying Greenland freshwater flux underestimates in climate models. <i>Geophysical Research Letters</i> , 2016 , 43, 5370-5377	4.9	3
233	Annual down-glacier drainage of lakes and water-filled crevasses at Helheim Glacier, southeast Greenland. 2016 , 121, 1819-1833		18
232	Anthropogenic forcing dominates global mean sea-level rise since 1970. 2016 , 6, 701-705		71
231	Oceanic transport of surface meltwater from the southern Greenland ice sheet. 2016 , 9, 528-532		63
230	Northeast sector of the Greenland Ice Sheet to undergo the greatest inland expansion of supraglacial lakes during the 21st century. <i>Geophysical Research Letters</i> , 2016 , 43, 9729-9738	4.9	34
229	The abandoned ice sheet base at Camp Century, Greenland, in a warming climate. <i>Geophysical Research Letters</i> , 2016 , 43, 8091-8096	4.9	36
228	Spatial extent and temporal variability of Greenland firn aquifers detected by ground and airborne radars. 2016 , 121, 2381-2398		52
227	A high-resolution record of Greenland mass balance. <i>Geophysical Research Letters</i> , 2016 , 43, 7002-7010	4.9	100

226	The Greenland Ice Sheet as a hot spot of phosphorus weathering and export in the Arctic. 2016 , 30, 191-210	108
225	Internally drained catchments dominate supraglacial hydrology of the southwest Greenland Ice Sheet. 2016 , 121, 1891-1910	33
224	Fate of the Atlantic Meridional Overturning Circulation: Strong decline under continued warming and Greenland melting. <i>Geophysical Research Letters</i> , 2016 , 43, 12,252-12,260	4.9 85
223	Atmospheric drying as the main driver of dramatic glacier wastage in the southern Indian Ocean. <i>Scientific Reports</i> , 2016 , 6, 32396	4.9 17
222	Increased mass loss and asynchronous behavior of marine-terminating outlet glaciers at Upernavik Isstrøm, NW Greenland. 2016 , 121, 241-256	18
221	The sea level response to ice sheet freshwater forcing in the Community Earth System Model. <i>Environmental Research Letters</i> , 2016 , 11, 104002	6.2 7
220	Greenland surface mass-balance observations from the ice-sheet ablation area and local glaciers. <i>Journal of Glaciology</i> , 2016 , 62, 861-887	3.4 48
219	Scalings for Submarine Melting at Tidewater Glaciers from Buoyant Plume Theory. 2016 , 46, 1839-1855	52
218	Annual variations in GPS-measured vertical displacements near Upernavik Isstrøm (Greenland) and contributions from surface mass loading. 2017 , 122, 677-691	17
217	Potential Activity of Subglacial Microbiota Transported to Anoxic River Delta Sediments. 2017 , 74, 6-9	6
216	Cloud-Atmospheric Boundary Layer-Surface Interactions on the Greenland Ice Sheet during the July 2012 Extreme Melt Event. <i>Journal of Climate</i> , 2017 , 30, 3237-3252	4.4 18
215	A high-end sea level rise probabilistic projection including rapid Antarctic ice sheet mass loss. <i>Environmental Research Letters</i> , 2017 , 12, 044013	6.2 89
214	Assessing the contribution of internal climate variability to anthropogenic changes in ice sheet volume. <i>Geophysical Research Letters</i> , 2017 , 44, 6261-6268	4.9 7
213	Delta progradation in Greenland driven by increasing glacial mass loss. <i>Nature</i> , 2017 , 550, 101-104	50.4 44
212	Modeling the Response of Nioghalvfjærdsfjorden and Zachariae Isstrøm Glaciers, Greenland, to Ocean Forcing Over the Next Century. <i>Geophysical Research Letters</i> , 2017 , 44, 11,071	4.9 27
211	Evaluating Model Simulations of Twentieth-Century Sea-Level Rise. Part II: Regional Sea-Level Changes. <i>Journal of Climate</i> , 2017 , 30, 8565-8593	4.4 35
210	Evaluating Model Simulations of Twentieth-Century Sea Level Rise. Part I: Global Mean Sea Level Change. <i>Journal of Climate</i> , 2017 , 30, 8539-8563	4.4 43
209	Marine-terminating glaciers sustain high productivity in Greenland fjords. 2017 , 23, 5344-5357	124

208	High resolution (1 km) positive degree-day modelling of Greenland ice sheet surface mass balance, 1870-2012 using reanalysis data. <i>Journal of Glaciology</i> , 2017 , 63, 176-193	3.4	28
207	Spatiotemporal variability in surface energy balance across tundra, snow and ice in Greenland. 2017 , 46, 81-93		17
206	Decrease in climatic conditions favouring floods in the south-east of Belgium over 1959-2010 using the regional climate model MAR. <i>International Journal of Climatology</i> , 2017 , 37, 2782-2796	3.5	9
205	Automated High-Resolution Satellite Image Registration Using Supraglacial Rivers on the Greenland Ice Sheet. 2017 , 10, 845-856		15
204	Regional Sea Level Changes for the Twentieth and the Twenty-First Centuries Induced by the Regional Variability in Greenland Ice Sheet Surface Mass Loss. <i>Journal of Climate</i> , 2017 , 30, 2011-2028	4.4	14
203	Comparison of surface mass balance of ice sheets simulated by positive-degree-day method and energy balance approach. <i>Climate of the Past</i> , 2017 , 13, 819-832	3.9	17
202	On the importance of the albedo parameterization for the mass balance of the Greenland ice sheet in EC-Earth. <i>Cryosphere</i> , 2017 , 11, 1949-1965	5.5	13
201	Possibility of Estimating Seasonal Snow Depth Based Solely on Passive Microwave Remote Sensing on the Greenland Ice Sheet in Spring. 2017 , 9, 523		1
200	The past, present, and future viscous heat dissipation available for Greenland subglacial conduit formation. <i>Cryosphere</i> , 2017 , 11, 303-317	5.5	15
199	SEMIC: an efficient surface energy and mass balance model applied to the Greenland ice sheet. <i>Cryosphere</i> , 2017 , 11, 1519-1535	5.5	11
198	Investigation of Firn Aquifer Structure in Southeastern Greenland Using Active Source Seismology. <i>Frontiers in Earth Science</i> , 2017 , 5,	3.5	16
197	Inferring Firn Permeability from Pneumatic Testing: A Case Study on the Greenland Ice Sheet. <i>Frontiers in Earth Science</i> , 2017 , 5,	3.5	4
196	Derivation of High Spatial Resolution Albedo from UAV Digital Imagery: Application over the Greenland Ice Sheet. <i>Frontiers in Earth Science</i> , 2017 , 5,	3.5	25
195	Ecological Modeling of the Supraglacial Ecosystem: A Process-based Perspective. <i>Frontiers in Earth Science</i> , 2017 , 5,	3.5	3
194	Recent Advances in Our Understanding of the Role of Meltwater in the Greenland Ice Sheet System. 2017 , 3, 330-344		40
193	Reconstructions of the 1900-2015 Greenland ice sheet surface mass balance using the regional climate MAR model. <i>Cryosphere</i> , 2017 , 11, 1015-1033	5.5	218
192	Sensitivity, stability and future evolution of the world's northernmost ice cap, Hans Tausen Iskappe (Greenland). <i>Cryosphere</i> , 2017 , 11, 805-825	5.5	11
191	Synthesizing long-term sea level rise projections with the MAGICC sea level model v2.0. <i>Geoscientific Model Development</i> , 2017 , 10, 2495-2524	6.3	42

190	The effect of overshooting 1.5 °C global warming on the mass loss of the Greenland Ice Sheet. 2017		
189	Ice flux evolution in fast flowing areas of the Greenland ice sheet over the 20th and 21st centuries. <i>Journal of Glaciology</i> , 2017 , 63, 499-513	3.4	15
188	Land Ice Freshwater Budget of the Arctic and North Atlantic Oceans: 1. Data, Methods, and Results. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 1827-1837	3.3	72
187	Committed sea-level rise under the Paris Agreement and the legacy of delayed mitigation action. <i>Nature Communications</i> , 2018 , 9, 601	17.4	68
186	Exploring the Potential Impact of Greenland Meltwater on Stratification, Photosynthetically Active Radiation, and Primary Production in the Labrador Sea. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 2570-2591	3.3	24
185	Contrasting temperature trends across the ice-free part of Greenland. <i>Scientific Reports</i> , 2018 , 8, 1586	4.9	23
184	Estimating water volume stored in the south-eastern Greenland firn aquifer using magnetic-resonance soundings. 2018 , 150, 11-20		11
183	Southeast Greenland Winter Precipitation Strongly Linked to the Icelandic Low Position. <i>Journal of Climate</i> , 2018 , 31, 4483-4500	4.4	15
182	Process-Based Model Evaluation Using Surface Energy Budget Observations in Central Greenland. 2018 , 123, 4777-4796		12
181	Ice Core Records of West Greenland Melt and Climate Forcing. <i>Geophysical Research Letters</i> , 2018 , 45, 3164-3172	4.9	29
180	Changes in Greenland ice bed conditions inferred from seismology. 2018 , 277, 81-98		14
179	Dynamic changes in outlet glaciers in northern Greenland from 1948 to 2015. <i>Cryosphere</i> , 2018 , 12, 3243-3263	3.2	34
178	Influence of temperature fluctuations on equilibrium ice sheet volume. <i>Cryosphere</i> , 2018 , 12, 39-47	5.5	8
177	A new surface meltwater routing model for use on the Greenland Ice Sheet surface. <i>Cryosphere</i> , 2018 , 12, 3791-3811	5.5	13
176	Eemian Greenland SMB strongly sensitive to model choice. <i>Climate of the Past</i> , 2018 , 14, 1463-1485	3.9	11
175	Link between the North Atlantic Oscillation and the surface mass balance components of the Greenland Ice Sheet under preindustrial and last interglacial climates: a study with a coupled global circulation model. <i>Climate of the Past</i> , 2018 , 14, 1707-1725	3.9	
174	Brief communication: Impact of the recent atmospheric circulation change in summer on the future surface mass balance of the Greenland Ice Sheet. <i>Cryosphere</i> , 2018 , 12, 3409-3418	5.5	33
173	21st Century Sea-Level Rise in Line with the Paris Accord. <i>Earth's Future</i> , 2018 , 6, 213-229	7.9	26

172	Rising Oceans Guaranteed: Arctic Land Ice Loss and Sea Level Rise. 2018 , 4, 211-222		22
171	Atmospheric River Impacts on Greenland Ice Sheet Surface Mass Balance. 2018 , 123, 8538-8560		58
170	Basal control of supraglacial meltwater catchments on the Greenland Ice Sheet. <i>Cryosphere</i> , 2018 , 12, 3383-3407	5.5	12
169	Uncertainty in Sea Level Rise Projections Due to the Dependence Between Contributors. <i>Earth's Future</i> , 2018 , 6, 1275-1291	7.9	24
168	High-resolution ice sheet surface mass-balance and spatiotemporal runoff simulations: Kangerlussuaq, west Greenland. 2018 , 50, S100008		6
167	The Greenland and Antarctic ice sheets under 1.5 °C global warming. 2018 , 8, 1053-1061		82
166	The effect of overshooting 1.5 °C global warming on the mass loss of the Greenland ice sheet. <i>Earth System Dynamics</i> , 2018 , 9, 1169-1189	4.8	9
165	Mapping Ice Algal Blooms in Southwest Greenland From Space. <i>Geophysical Research Letters</i> , 2018 , 45, 11,779	4.9	14
164	Nonlinear rise in Greenland runoff in response to post-industrial Arctic warming. <i>Nature</i> , 2018 , 564, 104-108	10.4	77
163	21st-century climate change around Kangerlussuaq, west Greenland: From the ice sheet to the shores of Davis Strait. 2018 , 50, S100006		7
162	Investigating a firn aquifer near Helheim Glacier (South-Eastern Greenland) with magnetic resonance soundings and ground-penetrating radar. 2018 , 16, 411-422		3
161	Simulation of the future sea level contribution of Greenland with a new glacial system model. <i>Cryosphere</i> , 2018 , 12, 3097-3121	5.5	30
160	Extreme temperature events on Greenland in observations and the MAR regional climate model. <i>Cryosphere</i> , 2018 , 12, 1091-1102	5.5	9
159	Modelling the climate and surface mass balance of polar ice sheets using RACMO2 [Part 1: Greenland (1958-2016)]. <i>Cryosphere</i> , 2018 , 12, 811-831	5.5	136
158	The sensitivity of the Greenland Ice Sheet to glacial-interglacial oceanic forcing. <i>Climate of the Past</i> , 2018 , 14, 455-472	3.9	10
157	Improving Greenland Surface Mass Balance Estimates Through the Assimilation of MODIS Albedo: A Case Study Along the K-Transect. <i>Geophysical Research Letters</i> , 2018 , 45, 6549-6556	4.9	3
156	Ice front change of marine-terminating outlet glaciers in northwest and southeast Greenland during the 21st century. <i>Journal of Glaciology</i> , 2018 , 64, 523-535	3.4	24
155	North Atlantic Natural Variability Modulates Emergence of Widespread Greenland Melt in a Warming Climate. <i>Geophysical Research Letters</i> , 2018 , 45, 9171-9178	4.9	15

154	Mass balance of the Antarctic Ice Sheet from 1992 to 2017. <i>Nature</i> , 2018 , 558, 219-222	50.4	442
153	Regional modeling of surface mass balance on the Cook Ice Cap, Kerguelen Islands ($(49^{\circ}\text{S}), (69^{\circ}\text{E})$). <i>Climate Dynamics</i> , 2019 , 53, 5909-5925	4.2	6
152	Precipitation Evolution over Belgium by 2100 and Sensitivity to Convective Schemes Using the Regional Climate Model MAR. <i>Atmosphere</i> , 2019 , 10, 321	2.7	2
151	An Integrated View of Greenland Ice Sheet Mass Changes Based on Models and Satellite Observations. 2019 , 11, 1407		20
150	Regional grid refinement in an Earth system model: impacts on the simulated Greenland surface mass balance. <i>Cryosphere</i> , 2019 , 13, 1547-1564	5.5	16
149	Holocene break-up and reestablishment of the Petermann Ice Tongue, Northwest Greenland. 2019 , 218, 322-342		15
148	Low-End Probabilistic Sea-Level Projections. 2019 , 11, 1507		6
147	A rapidly converging initialisation method to simulate the present-day Greenland ice sheet using the GRISLI ice sheet model (version 1.3). <i>Geoscientific Model Development</i> , 2019 , 12, 2481-2499	6.3	7
146	Submarine melt as a potential trigger of the North East Greenland Ice Stream margin retreat during Marine Isotope Stage 3. <i>Cryosphere</i> , 2019 , 13, 1911-1923	5.5	7
145	Distribution and dynamics of Greenland subglacial lakes. <i>Nature Communications</i> , 2019 , 10, 2810	17.4	27
144	Eemian Greenland ice sheet simulated with a higher-order model shows strong sensitivity to surface mass balance forcing. <i>Cryosphere</i> , 2019 , 13, 2133-2148	5.5	6
143	Modeling the response of Greenland outlet glaciers to global warming using a coupled flow line-plume model. <i>Cryosphere</i> , 2019 , 13, 2281-2301	5.5	10
142	Weathering Dynamics Under Contrasting Greenland Ice Sheet Catchments. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	9
141	Estimating Greenland tidewater glacier retreat driven by submarine melting. <i>Cryosphere</i> , 2019 , 13, 2489-2509	3.5	38
140	Silicon isotopes in Arctic and sub-Arctic glacial meltwaters: the role of subglacial weathering in the silicon cycle. 2019 , 475, 20190098		8
139	Accelerating changes in ice mass within Greenland, and the ice sheet's sensitivity to atmospheric forcing. 2019 , 116, 1934-1939		100
138	Observing and Modeling Ice Sheet Surface Mass Balance. 2019 , 57, 376-420		69
137	Cloud microphysics and circulation anomalies control differences in future Greenland melt. 2019 , 9, 523-528		20

136	Impact of millennial-scale oceanic variability on the Greenland ice-sheet evolution throughout the last glacial period. <i>Climate of the Past</i> , 2019 , 15, 593-609	3.9	3
135	LIVVkit 2.1: automated and extensible ice sheet model validation. <i>Geoscientific Model Development</i> , 2019 , 12, 1067-1086	6.3	2
134	Marked decrease in the near-surface snow density retrieved by AMSR-E satellite at Dome C, Antarctica, between 2002 and 2011. <i>Cryosphere</i> , 2019 , 13, 1215-1232	5.5	5
133	An efficient surface energy mass balance model for snow and ice. <i>Cryosphere</i> , 2019 , 13, 1529-1546	5.5	8
132	Modeling the response of northwest Greenland to enhanced ocean thermal forcing and subglacial discharge. <i>Cryosphere</i> , 2019 , 13, 723-734	5.5	28
131	Long-Term Support of an Active Subglacial Hydrologic System in Southeast Greenland by Firn Aquifers. <i>Geophysical Research Letters</i> , 2019 , 46, 4772-4781	4.9	14
130	Water mass structure and the effect of subglacial discharge in Bowdoin Fjord, northwestern Greenland. 2019 ,		
129	Controls on the Transport of Meltwater From the Southern Greenland Ice Sheet in the Labrador Sea. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 3551-3560	3.3	6
128	Sensitivity to Convective Schemes on Precipitation Simulated by the Regional Climate Model MAR over Belgium (1987-2017). <i>Atmosphere</i> , 2019 , 10, 34	2.7	6
127	Assessment of the Greenland ice sheet-atmosphere feedbacks for the next century with a regional atmospheric model coupled to an ice sheet model. <i>Cryosphere</i> , 2019 , 13, 373-395	5.5	31
126	Global environmental consequences of twenty-first-century ice-sheet melt. <i>Nature</i> , 2019 , 566, 65-72	50.4	148
125	Estimation of the Antarctic surface mass balance using the regional climate model MAR (1979-2015) and identification of dominant processes. <i>Cryosphere</i> , 2019 , 13, 281-296	5.5	104
124	Greenland Ice Sheet Response to Stratospheric Aerosol Injection Geoengineering. <i>Earth's Future</i> , 2019 , 7, 1451-1463	7.9	10
123	Daoism and the Project of an Ecological Civilization or Shengtai Wenming ????. 2019 , 10, 630		3
122	Constraining the geothermal heat flux in Greenland at regions of radar-detected basal water. <i>Journal of Glaciology</i> , 2019 , 65, 1023-1034	3.4	6
121	Optimal temperature overshoot profile found by limiting global sea level rise as a lower-cost climate target. <i>Science Advances</i> , 2020 , 6, eaaw9490	14.3	6
120	Mass balance of the Greenland Ice Sheet from 1992 to 2018. <i>Nature</i> , 2020 , 579, 233-239	50.4	209
119	Future sea level rise along the coast of China and adjacent region under 1.5°C and 2.0°C global warming. 2020 , 11, 227-238		5

118	Global Warming Threshold and Mechanisms for Accelerated Greenland Ice Sheet Surface Mass Loss. 2020 , 12, e2019MS002029		5
117	Rapid retreat of a Scandinavian marine outlet glacier in response to warming at the last glacial termination. 2020 , 250, 106645		2
116	Exploring the Drivers of Global and Local Sea-Level Change Over the 21st Century and Beyond. <i>Earths Future</i> , 2020 , 8, e2019EF001413	7.9	15
115	Investigating Controls on the Formation and Distribution of Wintertime Storage of Water in Supraglacial Lakes. <i>Frontiers in Earth Science</i> , 2020 , 8,	3.5	3
114	Submesoscale modulation of deep water formation in the Labrador Sea. <i>Scientific Reports</i> , 2020 , 10, 17489	4.9	12
113	Greater Greenland Ice Sheet contribution to global sea level rise in CMIP6. <i>Nature Communications</i> , 2020 , 11, 6289	17.4	19
112	Contribution of Wave Setup to Projected Coastal Sea Level Changes. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2020JC016078	3.3	22
111	Modelling the effects of climate change on urban coastal-fluvial flooding. 2020 , 11, 270-288		8
110	The Spatiotemporal Variability of Cloud Radiative Effects on the Greenland Ice Sheet Surface Mass Balance. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087315	4.9	8
109	Meltwater-Enhanced Nutrient Export From Greenland's Glacial Fjords: A Sensitivity Analysis. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2020JC016185	3.3	6
108	Comparing urban coastal flood risk in 136 cities under two alternative sea-level projections: RCP 8.5 and an expert opinion-based high-end scenario. <i>Ocean and Coastal Management</i> , 2020 , 193, 105249	3.9	17
107	Brief communication: CESM2 climate forcing (1950-2014) yields realistic Greenland ice sheet surface mass balance. <i>Cryosphere</i> , 2020 , 14, 1425-1435	5.5	7
106	CMIP5 model selection for ISMIP6 ice sheet model forcing: Greenland and Antarctica. <i>Cryosphere</i> , 2020 , 14, 855-879	5.5	29
105	Warm Temperature Extremes Across Greenland Connected to Clouds. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086059	4.9	5
104	Changing water cycle and freshwater transports in the Atlantic Ocean in observations and CMIP5 models. <i>Climate Dynamics</i> , 2020 , 54, 4971-4989	4.2	7
103	Evaluation of CloudSat's Cloud-Profiling Radar for Mapping Snowfall Rates Across the Greenland Ice Sheet. 2020 , 125, e2019JD031411		5
102	Long-term projections of sea-level rise from ice sheets. 2020 , 11, e634		12
101	Twenty-first century ocean forcing of the Greenland ice sheet for modelling of sea level contribution. <i>Cryosphere</i> , 2020 , 14, 985-1008	5.5	28

100	Present-Day Greenland Ice Sheet Climate and Surface Mass Balance in CESM2. 2020 , 125, e2019JF005318		13
99	Future evolution of the hydroclimatic conditions favouring floods in the south-east of Belgium by 2100 using a regional climate model. <i>International Journal of Climatology</i> , 2021 , 41, 647-662	3.5	1
98	Greenland surface air temperature changes from 1981 to 2019 and implications for ice-sheet melt and mass-balance change. <i>International Journal of Climatology</i> , 2021 , 41, E1336	3.5	20
97	The Presence and Widespread Distribution of Dark Sediment in Greenland Ice Sheet Supraglacial Streams Implies Substantial Impact of Microbial Communities on Sediment Deposition and Albedo. <i>Geophysical Research Letters</i> , 2021 , 48, 2020GL088444	4.9	2
96	Brief communication: CMIP6 does not suggest any atmospheric blocking increase in summer over Greenland by 2100. <i>International Journal of Climatology</i> , 2021 , 41, 2589-2596	3.5	7
95	The GRISLI-LSCE contribution to the Ice Sheet Model Intercomparison Project for phase 6 of the Coupled Model Intercomparison Project (ISMIP6) [Part 1: Projections of the Greenland ice sheet evolution by the end of the 21st century. <i>Cryosphere</i> , 2021 , 15, 1015-1030	5.5	3
94	Correlations Between Sea-Level Components Are Driven by Regional Climate Change. <i>Earth's Future</i> , 2021 , 9, e2020EF001825	7.9	1
93	Future surface mass balance and surface melt in the Amundsen sector of the West Antarctic Ice Sheet. <i>Cryosphere</i> , 2021 , 15, 571-593	5.5	5
92	A 21st Century Warming Threshold for Sustained Greenland Ice Sheet Mass Loss. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL090471	4.9	6
91	Analysis of the surface mass balance for deglacial climate simulations. <i>Cryosphere</i> , 2021 , 15, 1131-1156	5.5	2
90	Diverging future surface mass balance between the Antarctic ice shelves and grounded ice sheet. <i>Cryosphere</i> , 2021 , 15, 1215-1236	5.5	21
89	Firn Evolution at Camp Century, Greenland: 1966-2100. <i>Frontiers in Earth Science</i> , 2021 , 9,	3.5	4
88	Ocean eddies strongly affect global mean sea-level projections. <i>Science Advances</i> , 2021 , 7,	14.3	3
87	Freshwater Variability and Transport in the Labrador Sea From In Situ and Satellite Observations. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2020JC016751	3.3	1
86	Environmental and economic impacts of rising sea levels: A case study in Kuwait's coastal zone. <i>Ocean and Coastal Management</i> , 2021 , 205, 105572	3.9	4
85	Evaluating the ability of numerical models to capture important shifts in environmental time series: A fuzzy change point approach. <i>Environmental Modelling and Software</i> , 2021 , 139, 104993	5.2	1
84	Contribution of Land Water Storage Change to Regional Sea-Level Rise Over the Twenty-First Century. <i>Frontiers in Earth Science</i> , 2021 , 9,	3.5	0
83	Reanalysis Surface Mass Balance of the Greenland Ice Sheet along K-transect (2000-2014).		

82	A first constraint on basal melt-water production of the Greenland ice sheet. <i>Nature Communications</i> , 2021 , 12, 3461	17.4	5
81	Brief communication: Reduction in the future Greenland ice sheet surface melt with the help of solar geoengineering. <i>Cryosphere</i> , 2021 , 15, 3013-3019	5.5	2
80	Surface melting over the Greenland ice sheet derived from enhanced resolution passive microwave brightness temperatures (1979-2019). <i>Cryosphere</i> , 2021 , 15, 2623-2646	5.5	7
79	Rainfall on the Greenland Ice Sheet: Present-Day Climatology From a High-Resolution Non-Hydrostatic Polar Regional Climate Model. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092942	4.9	3
78	Possibility of Stabilizing the Greenland Ice Sheet. <i>Earth's Future</i> , 2021 , 9, e2021EF002152	7.9	
77	First Application of Artificial Neural Networks to Estimate 21st Century Greenland Ice Sheet Surface Melt. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092449	4.9	0
76	Reanalysis Surface Mass Balance of the Greenland Ice Sheet Along K-Transect (2000-2014). <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094602	4.9	
75	Future Sea Level Change Under Coupled Model Intercomparison Project Phase 5 and Phase 6 Scenarios From the Greenland and Antarctic Ice Sheets. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091747	4.9	7
74	Vatnajökull Mass Loss Under Solar Geoengineering Due to the North Atlantic Meridional Overturning Circulation. <i>Earth's Future</i> , 2021 , 9, e2021EF002052	7.9	1
73	Modeling the Greenland englacial stratigraphy. <i>Cryosphere</i> , 2021 , 15, 4539-4556	5.5	0
72	FAMOUS version xotzt (FAMOUS-ice): a general circulation model (GCM) capable of energy- and water-conserving coupling to an ice sheet model. <i>Geoscientific Model Development</i> , 2021 , 14, 5769-5787	6.3	3
71	Greenland climate simulations show high Eemian surface melt which could explain reduced total air content in ice cores. <i>Climate of the Past</i> , 2021 , 17, 317-330	3.9	
70	Projected Change in Sea Level. <i>Regional Climate Studies</i> , 2015 , 253-263		7
69	Dynamic response of the Greenland ice sheet to recent cooling. <i>Scientific Reports</i> , 2020 , 10, 1647	4.9	11
68	Detecting a forced signal in satellite-era sea-level change. <i>Environmental Research Letters</i> , 2020 , 15, 094079	6.7	4
67	Importance of Orography for Greenland Cloud and Melt Response to Atmospheric Blocking. <i>Journal of Climate</i> , 2020 , 33, 4187-4206	4.4	10
66	Locations and Mechanisms of Ocean Ventilation in the High-Latitude North Atlantic in an Eddy-Permitting Ocean Model. <i>Journal of Climate</i> , 2020 , 33, 10113-10131	4.4	8
65	Prediction of climate variables by comparing the k-nearest neighbor method and MIROC5 outputs in an arid environment. <i>Climate Research</i> , 2019 , 77, 99-114	1.6	7

64	Air Pollution and Its Association with the Greenland Ice Sheet Melt. <i>Sustainability</i> , 2021 , 13, 65	3.6	1
63	Semi-equilibrated global sea-level change projections for the next 10 000 years. <i>Earth System Dynamics</i> , 2020 , 11, 953-976	4.8	8
62	Differential climate impacts for policy-relevant limits to global warming: the case of 1.5 °C and 2 °C.		31
61	The SUMup dataset: compiled measurements of surface mass balance components over ice sheets and sea ice with analysis over Greenland. <i>Earth System Science Data</i> , 2018 , 10, 1959-1985	10.5	18
60	A simple equation for the melt elevation feedback of ice sheets. <i>Cryosphere</i> , 2016 , 10, 1799-1807	5.5	25
59	Remapping of Greenland ice sheet surface mass balance anomalies for large ensemble sea-level change projections. <i>Cryosphere</i> , 2020 , 14, 1747-1762	5.5	8
58	The added value of high resolution in estimating the surface mass balance in southern Greenland. <i>Cryosphere</i> , 2020 , 14, 1809-1827	5.5	6
57	Present-day and future Greenland Ice Sheet precipitation frequency from CloudSat observations and the Community Earth System Model. <i>Cryosphere</i> , 2020 , 14, 2253-2265	5.5	3
56	Experimental protocol for sea level projections from ISMIP6 stand-alone ice sheet models. <i>Cryosphere</i> , 2020 , 14, 2331-2368	5.5	32
55	The future sea-level contribution of the Greenland ice sheet: a multi-model ensemble study of ISMIP6. <i>Cryosphere</i> , 2020 , 14, 3071-3096	5.5	62
54	Intercomparison of surface meltwater routing models for the Greenland ice sheet and influence on subglacial effective pressures. <i>Cryosphere</i> , 2020 , 14, 3349-3365	5.5	3
53	GrSMBMIP: intercomparison of the modelled 1980-2012 surface mass balance over the Greenland Ice Sheet. <i>Cryosphere</i> , 2020 , 14, 3935-3958	5.5	43
52	Large and irreversible future decline of the Greenland ice sheet. <i>Cryosphere</i> , 2020 , 14, 4299-4322	5.5	6
51	Evaluation of the CMIP5 models in the aim of regional modelling of the Antarctic surface mass balance. <i>Cryosphere</i> , 2015 , 9, 2311-2321	5.5	44
50	Small impact of surrounding oceanic conditions on 2007-2012 Greenland Ice Sheet surface mass balance.		2
49	Assessing spatio-temporal variability and trends (2000-2013) of modelled and measured Greenland ice sheet albedo.		2
48	Future projections of the climate and surface mass balance of Svalbard with the regional climate model MAR.		2
47	The darkening of the Greenland ice sheet: trends, drivers and projections (1981-2010).		3

46	Annual Greenland accumulation rates (2009–2012) from airborne Snow Radar.		1
45	A Lagrangian analysis of the dynamical and thermodynamic drivers of large-scale Greenland melt events during 1979–2017. <i>Weather and Climate Dynamics</i> , 2020 , 1, 497-518	3.3	7
44	Field activities of the Snow Impurity and Glacial Microbe effects on abrupt warming in the Arctic (SIGMA) Project in Greenland in 2011-2013. <i>Bulletin of Glaciological Research</i> , 2014 , 32, 3-20	0.4	32
43	Stable climate and surface mass balance in Svalbard over 1979–2013 despite the Arctic warming.		1
42	Recent changes in north-west Greenland climate documented by NEEM shallow ice core data and simulations, and implications for past temperature reconstructions.		1
41	Improving a priori regional climate model estimates of Greenland ice sheet surface mass loss through assimilation of measured ice surface temperatures.		
40	Report of Committee I.1: Environment. 2015 , 1-72		
39	Greenland Ice Sheet seasonal and spatial mass variability from model simulations and GRACE (2003–2012).		
38	The Contribution of Drifting Snow to Cloud Properties and the Atmospheric Radiative Budget Over Antarctica. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094967	4.9	0
37	Assimilating near-real-time mass balance stake readings into a model ensemble using a particle filter. <i>Cryosphere</i> , 2021 , 15, 5017-5040	5.5	1
36	Southern Baffin Island mean annual precipitation isotopes modulated by summer and autumn moisture source changes during the past 5800 years. <i>Journal of Quaternary Science</i> ,	2.3	2
35	New climate models reveal faster and larger increases in Arctic precipitation than previously projected. <i>Nature Communications</i> , 2021 , 12, 6765	17.4	11
34	Greenland Ice Sheet Surface Runoff Projections to 2200 Using Degree-Day Methods. <i>Atmosphere</i> , 2021 , 12, 1569	2.7	
33	Sources of uncertainty in Greenland surface mass balance in the 21st century. <i>Cryosphere</i> , 2022 , 16, 315-331	3.3	3
32	Uncertainties in projected surface mass balance over the polar ice sheets from dynamically downscaled EC-Earth models. <i>Cryosphere</i> , 2022 , 16, 17-33	5.5	
31	Subglacial lakes and their changing role in a warming climate. <i>Nature Reviews Earth & Environment</i> ,	30.2	3
30	North Atlantic Footprint of Summer Greenland Ice Sheet Melting on Interannual to Interdecadal Time Scales: A Greenland Blocking Perspective. <i>Journal of Climate</i> , 2022 , 35, 1939-1961	4.4	0
29	Temporal variability in snow accumulation and density at Summit Camp, Greenland ice sheet. <i>Journal of Glaciology</i> , 1-9	3.4	

28	Record-breaking rain falls at Greenland summit controlled by warm moist-air intrusion. <i>Environmental Research Letters</i> , 2022 , 17, 044061	6.2	
27	Impact of the melt- β bedo feedback on the future evolution of the Greenland Ice Sheet with PISM-dEBM-simple. <i>Cryosphere</i> , 2021 , 15, 5739-5764	5.5	1
26	Retreat and Regrowth of the Greenland Ice Sheet During the Last Interglacial as Simulated by the CESM2-CISM2 Coupled Climate Ice Sheet Model. <i>Paleoceanography and Paleoclimatology</i> , 2021 , 36,	3.3	1
25	Data_Sheet_1.docx. 2020 ,		
24	Image_1.TIF. 2020 ,		
23	Image_2.TIF. 2020 ,		
22	Image_3.JPEG. 2020 ,		
21	Frequency-intensity-distribution bias correction and trend analysis of high-resolution CMIP6 precipitation data over a tropical river basin. <i>Theoretical and Applied Climatology</i> ,	3	0
20	A Semi-Empirical Framework for ice sheet response analysis under Oceanic forcing in Antarctica and Greenland. <i>Climate Dynamics</i> ,	4.2	
19	Impact of freshwater runoff from the southwest Greenland Ice Sheet on fjord productivity since the late 19th century. <i>Cryosphere</i> , 2022 , 16, 2471-2491	5.5	0
18	Recent nutrient enrichment and high biological productivity in the Labrador Sea is tied to enhanced winter convection. <i>Progress in Oceanography</i> , 2022 , 102848	3.8	0
17	Historical and future weather data for dynamic building simulations in Belgium using the regional climate model MAR: typical and extreme meteorological year and heatwaves. <i>Earth System Science Data</i> , 2022 , 14, 3039-3051	10.5	0
16	A Consistent Framework for Coupling Basal Friction With Subglacial Hydrology on Hard-Bedded Glaciers. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	0
15	Assessment of future wind speed and wind power changes over South Greenland using the MAR regional climate model. <i>International Journal of Climatology</i> ,	3.5	
14	Threshold response to melt drives large-scale bed weakening in Greenland. <i>Nature</i> , 2022 , 607, 714-720	50.4	0
13	A daily, 1 km resolution Greenland rainfall climatology (1958-2020) from statistical downscaling of a regional atmospheric climate model.		0
12	Increased aerosol concentrations in the High Arctic attributable to changing atmospheric transport patterns. 2022 , 5,		0
11	Modelled dynamic retreat of Kangerlussuaq Glacier, East Greenland, strongly influenced by the consecutive absence of an ice m β lange in Kangerlussuaq Fjord. 1-12		0

- 10 Coastal freshening drives acidification state in Greenland fjords. **2023**, 855, 158962 ○
- 9 Impact of an acceleration of ice sheet melting on monsoon systems. **2022**, 13, 1259-1287 ○
- 8 Impact of grids and dynamical cores in CESM2.2 on the surface mass balance of the Greenland Ice Sheet. ○
- 7 Variability in Antarctic surface climatology across regional climate models and reanalysis datasets. **2022**, 16, 3815-3841 ○
- 6 Submarine melting of glaciers in Greenland amplified by atmospheric warming. 1
- 5 Greenland Interannual Ice Mass Variations Detected by GRACE Time-Variable Gravity. **2022**, 49, ○
- 4 Spatially consistent microbial biomass and future cellular carbon release from melting Northern Hemisphere glacier surfaces. **2022**, 3, ○
- 3 Modern temperatures in central North Greenland warmest in past millennium. **2023**, 613, 503-507 ○
- 2 Glacier-specific factors drive differing seasonal and interannual dynamics of Nunatakassaap Sermia and Illullip Sermia, Greenland. **2023**, 55, ○
- 1 Mass balance of the Greenland and Antarctic ice sheets from 1992 to 2020. **2023**, 15, 1597-1616 ○