

M M Holland

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

145
papers

20,167
citations

57
h-index

142
g-index

164
ext. papers

22,735
ext. citations

6.1
avg, IF

6.72
L-index

#	Paper	IF	Citations
145	The Community Climate System Model Version 4. <i>Journal of Climate</i> , 2011 , 24, 4973-4991	4.4	2037
144	The Community Earth System Model: A Framework for Collaborative Research. <i>Bulletin of the American Meteorological Society</i> , 2013 , 94, 1339-1360	6.1	1412
143	The Community Earth System Model (CESM) Large Ensemble Project: A Community Resource for Studying Climate Change in the Presence of Internal Climate Variability. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 1333-1349	6.1	1320
142	Arctic sea ice decline: Faster than forecast. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	1225
141	The Arctic's rapidly shrinking sea ice cover: a research synthesis. <i>Climatic Change</i> , 2012 , 110, 1005-1027	4.5	999
140	Perspectives on the Arctic's shrinking sea-ice cover. <i>Science</i> , 2007 , 315, 1533-6	33.3	973
139	Polar amplification of climate change in coupled models. <i>Climate Dynamics</i> , 2003 , 21, 221-232	4.2	832
138	How Well Do We Understand and Evaluate Climate Change Feedback Processes?. <i>Journal of Climate</i> , 2006 , 19, 3445-3482	4.4	748
137	The emergence of surface-based Arctic amplification. <i>Cryosphere</i> , 2009 , 3, 11-19	5.5	741
136	Trends in Arctic sea ice extent from CMIP5, CMIP3 and observations. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	681
135	The UVic earth system climate model: Model description, climatology, and applications to past, present and future climates. <i>Atmosphere - Ocean</i> , 2001 , 39, 361-428	1.5	525
134	Future abrupt reductions in the summer Arctic sea ice. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	461
133	Abrupt onset of the Little Ice Age triggered by volcanism and sustained by sea-ice/ocean feedbacks. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	421
132	The Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001916	7.1	358
131	Arctic Sea Ice Extent Plummets in 2007. <i>Eos</i> , 2008 , 89, 13	1.5	356
130	History of sea ice in the Arctic. <i>Quaternary Science Reviews</i> , 2010 , 29, 1757-1778	3.9	295
129	Improved Sea Ice Shortwave Radiation Physics in CCSM4: The Impact of Melt Ponds and Aerosols on Arctic Sea Ice. <i>Journal of Climate</i> , 2012 , 25, 1413-1430	4.4	257

128	Predicting 21st-century polar bear habitat distribution from global climate models. <i>Ecological Monographs</i> , 2009 , 79, 25-58	9	255
127	Analysis of the Arctic System for Freshwater Cycle Intensification: Observations and Expectations. <i>Journal of Climate</i> , 2010 , 23, 5715-5737	4.4	253
126	Simulating the ice-thickness distribution in a coupled climate model. <i>Journal of Geophysical Research</i> , 2001 , 106, 2441-2463		240
125	Parameterization of mixed layer eddies. III: Implementation and impact in global ocean climate simulations. <i>Ocean Modelling</i> , 2011 , 39, 61-78	3	213
124	Constraining projections of summer Arctic sea ice. <i>Cryosphere</i> , 2012 , 6, 1383-1394	5.5	187
123	Inter-annual to multi-decadal Arctic sea ice extent trends in a warming world. <i>Geophysical Research Letters</i> , 2011 , 38,	4.9	180
122	Demographic models and IPCC climate projections predict the decline of an emperor penguin population. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 1844-7	11.5	174
121	Climate Sensitivity of the Community Climate System Model, Version 4. <i>Journal of Climate</i> , 2012 , 25, 3053-3070	4.4	174
120	Accelerated Arctic land warming and permafrost degradation during rapid sea ice loss. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	164
119	The arctic freshwater system: Changes and impacts. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		160
118	Influence of the Sea Ice Thickness Distribution on Polar Climate in CCSM3. <i>Journal of Climate</i> , 2006 , 19, 2398-2414	4.4	159
117	Advancing Polar Prediction Capabilities on Daily to Seasonal Time Scales. <i>Bulletin of the American Meteorological Society</i> , 2016 , 97, 1631-1647	6.1	151
116	The atmospheric role in the Arctic water cycle: A review on processes, past and future changes, and their impacts. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 586-620	3.7	136
115	Simulation of the Global Hydrological Cycle in the CCSM Community Atmosphere Model Version 3 (CAM3): Mean Features. <i>Journal of Climate</i> , 2006 , 19, 2199-2221	4.4	127
114	The Role of Ice-Ocean Interactions in the Variability of the North Atlantic Thermohaline Circulation. <i>Journal of Climate</i> , 2001 , 14, 656-675	4.4	126
113	The sea ice mass budget of the Arctic and its future change as simulated by coupled climate models. <i>Climate Dynamics</i> , 2010 , 34, 185-200	4.2	120
112	The Influence of Local Feedbacks and Northward Heat Transport on the Equilibrium Arctic Climate Response to Increased Greenhouse Gas Forcing. <i>Journal of Climate</i> , 2012 , 25, 5433-5450	4.4	117
111	Sustained ocean changes contributed to sudden Antarctic sea ice retreat in late 2016. <i>Nature Communications</i> , 2019 , 10, 14	17.4	111

110	Arctic system on trajectory to new, seasonally ice-free state. <i>Eos</i> , 2005 , 86, 309	1.5	109
109	The Influence of Sea Ice on Ocean Heat Uptake in Response to Increasing CO ₂ . <i>Journal of Climate</i> , 2006 , 19, 2437-2450	4.4	108
108	Inherent sea ice predictability in the rapidly changing Arctic environment of the Community Climate System Model, version 3. <i>Climate Dynamics</i> , 2011 , 36, 1239-1253	4.2	106
107	Maintenance of the Sea-Ice Edge. <i>Journal of Climate</i> , 2005 , 18, 2903-2921	4.4	106
106	How predictable is the timing of a summer ice-free Arctic?. <i>Geophysical Research Letters</i> , 2016 , 43, 9113-9120	4.2	102
105	Twenty-First-Century Arctic Climate Change in CCSM4. <i>Journal of Climate</i> , 2012 , 25, 2696-2710	4.4	100
104	Centennial-scale climate change from decadal-paced explosive volcanism: a coupled sea ice-ocean mechanism. <i>Climate Dynamics</i> , 2011 , 37, 2373-2387	4.2	95
103	Influence of initial conditions and climate forcing on predicting Arctic sea ice. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	94
102	THERMOHALINE CIRCULATION: High-Latitude Phenomena and the Difference Between the Pacific and Atlantic. <i>Annual Review of Earth and Planetary Sciences</i> , 1999 , 27, 231-285	15.3	93
101	Late-Twentieth-Century Simulation of Arctic Sea Ice and Ocean Properties in the CCSM4. <i>Journal of Climate</i> , 2012 , 25, 1431-1452	4.4	90
100	Ocean viscosity and climate. <i>Journal of Geophysical Research</i> , 2008 , 113,		83
99	Effects of climate change on an emperor penguin population: analysis of coupled demographic and climate models. <i>Global Change Biology</i> , 2012 , 18, 2756-70	11.4	74
98	Projected changes in Arctic Ocean freshwater budgets. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		73
97	Projected continent-wide declines of the emperor penguin under climate change. <i>Nature Climate Change</i> , 2014 , 4, 715-718	21.4	72
96	Fast and slow responses of Southern Ocean sea surface temperature to SAM in coupled climate models. <i>Climate Dynamics</i> , 2017 , 48, 1595-1609	4.2	69
95	Implications of Arctic sea ice changes for North Atlantic deep convection and the meridional overturning circulation in CCSM4-CMIP5 simulations. <i>Geophysical Research Letters</i> , 2013 , 40, 1206-1211	4.9	69
94	An arctic hydrologic system in transition: Feedbacks and impacts on terrestrial, marine, and human life. <i>Journal of Geophysical Research</i> , 2009 , 114,		64
93	Simulated Arctic Ocean Freshwater Budgets in the Twentieth and Twenty-First Centuries. <i>Journal of Climate</i> , 2006 , 19, 6221-6242	4.4	64

92	Changes in Arctic clouds during intervals of rapid sea ice loss. <i>Climate Dynamics</i> , 2011 , 36, 1475-1489	4.2	61
91	Modeling the Arctic freshwater system and its integration in the global system: Lessons learned and future challenges. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 540-566	3.7	59
90	Extremes become routine in an emerging new Arctic. <i>Nature Climate Change</i> , 2020 , 10, 1108-1115	21.4	58
89	Impact of sea ice on the marine iron cycle and phytoplankton productivity. <i>Biogeosciences</i> , 2014 , 11, 4713-4731	4.7	57
88	Changing seasonal sea ice predictor relationships in a changing Arctic climate. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	57
87	Snow in the changing sea-ice systems. <i>Nature Climate Change</i> , 2018 , 8, 946-953	21.4	57
86	Decadal variations in Labrador Sea ice cover and North Atlantic sea surface temperatures. <i>Journal of Geophysical Research</i> , 2002 , 107, 3-1		55
85	The CMIP6 Sea-Ice Model Intercomparison Project (SIMIP): understanding sea ice through climate-model simulations. <i>Geoscientific Model Development</i> , 2016 , 9, 3427-3446	6.3	54
84	Modeling the thermodynamics of a sea ice thickness distribution: 1. Sensitivity to ice thickness resolution. <i>Journal of Geophysical Research</i> , 1997 , 102, 23079-23091		53
83	Global atmospheric forcing data for Arctic ice-ocean modeling. <i>Journal of Geophysical Research</i> , 2007 , 112,		53
82	Arctic Freshwater Synthesis: Summary of key emerging issues. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015 , 120, 1887-1893	3.7	51
81	Antarctic Sea Ice Climatology, Variability, and Late Twentieth-Century Change in CCSM4. <i>Journal of Climate</i> , 2012 , 25, 4817-4838	4.4	50
80	Initial-value predictability of Antarctic sea ice in the Community Climate System Model 3. <i>Geophysical Research Letters</i> , 2013 , 40, 2121-2124	4.9	49
79	Response of Northern Hemisphere extratropical cyclone activity and associated precipitation to climate change, as represented by the Community Climate System Model. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		49
78	Twentieth century simulation of the southern hemisphere climate in coupled models. Part II: sea ice conditions and variability. <i>Climate Dynamics</i> , 2006 , 26, 229-245	4.2	49
77	Sensitivity of Antarctic sea ice to the Southern Annular Mode in coupled climate models. <i>Climate Dynamics</i> , 2017 , 49, 1813-1831	4.2	45
76	Twentieth century simulation of the southern hemisphere climate in coupled models. Part 1: large scale circulation variability. <i>Climate Dynamics</i> , 2006 , 26, 217-228	4.2	43
75	The North Atlantic Oscillation/Arctic Oscillation in the CCSM2 and Its Influence on Arctic Climate Variability. <i>Journal of Climate</i> , 2003 , 16, 2767-2781	4.4	42

74	Mechanisms of Decadal Arctic Climate Variability in the Community Climate System Model, Version 2 (CCSM2). <i>Journal of Climate</i> , 2005 , 18, 3552-3570	4.4	41
73	A tracer study of the Arctic Ocean's liquid freshwater export variability. <i>Journal of Geophysical Research</i> , 2010 , 115,		38
72	Tropical Decadal Variability and the Rate of Arctic Sea Ice Decrease. <i>Geophysical Research Letters</i> , 2018 , 45, 11,326	4.9	36
71	Arctic climate response to forcing from light-absorbing particles in snow and sea ice in CESM. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 7903-7920	6.8	34
70	Fasting season length sets temporal limits for global polar bear persistence. <i>Nature Climate Change</i> , 2020 , 10, 732-738	21.4	34
69	Mechanisms Forcing an Antarctic Dipole in Simulated Sea Ice and Surface Ocean Conditions. <i>Journal of Climate</i> , 2005 , 18, 2052-2066	4.4	32
68	The influence of sea ice physics on simulations of climate change. <i>Journal of Geophysical Research</i> , 2001 , 106, 19639-19655		31
67	Can regional climate engineering save the summer Arctic sea ice?. <i>Geophysical Research Letters</i> , 2014 , 41, 880-885	4.9	30
66	Pan-Antarctic analysis aggregating spatial estimates of Adlie penguin abundance reveals robust dynamics despite stochastic noise. <i>Nature Communications</i> , 2017 , 8, 832	17.4	29
65	Synoptically forced hydroclimatology of major Arctic watersheds in general circulation models; Part 1: the Mackenzie River Basin. <i>International Journal of Climatology</i> , 2009 , 29, 1226-1243	3.5	28
64	Seasonal differences in the response of Arctic cyclones to climate change in CESM1. <i>Climate Dynamics</i> , 2018 , 50, 3885-3903	4.2	25
63	Springtime winds drive Ross Sea ice variability and change in the following autumn. <i>Nature Communications</i> , 2017 , 8, 731	17.4	24
62	The Role of Natural Versus Forced Change in Future Rapid Summer Arctic Ice Loss. <i>Geophysical Monograph Series</i> , 2013 , 133-150	1.1	24
61	Modeling the thermodynamics of a sea ice thickness distribution: 2. Sea ice/ocean interactions. <i>Journal of Geophysical Research</i> , 1997 , 102, 23093-23107		24
60	Thicker Clouds and Accelerated Arctic Sea Ice Decline: The Atmosphere-Sea Ice Interactions in Spring. <i>Geophysical Research Letters</i> , 2019 , 46, 6980-6989	4.9	23
59	Robust response of the Amundsen Sea Low to stratospheric ozone depletion. <i>Geophysical Research Letters</i> , 2016 , 43, 8207-8213	4.9	23
58	Comment on "On the reliability of simulated Arctic sea ice in global climate models" by I. Eisenman, N. Untersteiner, and J. S. Wettlaufer. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	20
57	The Expanding Footprint of Rapid Arctic Change. <i>Earth's Future</i> , 2019 , 7, 212-218	7.9	19

56	Factors affecting projected Arctic surface shortwave heating and albedo change in coupled climate models. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	19
55	Arctic Sea Ice in Two Configurations of the CESM2 During the 20th and 21st Centuries. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2020JC016133	3.3	19
54	Essential gaps and uncertainties in the understanding of the roles and functions of Arctic sea ice. <i>Environmental Research Letters</i> , 2019 , 14, 043002	6.2	18
53	The Role of Physical Processes in Determining the Interdecadal Variability of Central Arctic Sea Ice. <i>Journal of Climate</i> , 1999 , 12, 3319-3330	4.4	18
52	The emergence of surface-based Arctic amplification		18
51	Warm Arctic, Increased Winter Sea Ice Growth?. <i>Geophysical Research Letters</i> , 2018 , 45, 12,922	4.9	18
50	Arctic Ocean sea ice snow depth evaluation and bias sensitivity in CCSM. <i>Cryosphere</i> , 2013 , 7, 1887-1900	5.5	16
49	The Paris Agreement objectives will likely halt future declines of emperor penguins. <i>Global Change Biology</i> , 2020 , 26, 1170-1184	11.4	15
48	Arctic and Antarctic Sea Ice Mean State in the Community Earth System Model Version 2 and the Influence of Atmospheric Chemistry. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2019JC015934	2.3	15
47	Stratospheric Ozone Depletion: An Unlikely Driver of the Regional Trends in Antarctic Sea Ice in Austral Fall in the Late Twentieth Century. <i>Geophysical Research Letters</i> , 2017 , 44, 11,062	4.9	14
46	Constraining projections of summer Arctic sea ice		14
45	Past and future interannual variability in Arctic sea ice in coupled climate models. <i>Cryosphere</i> , 2019 , 13, 113-124	5.5	13
44	An improved single-column model representation of ocean mixing associated with summertime leads: Results from a SHEBA case study. <i>Journal of Geophysical Research</i> , 2003 , 108,		13
43	Impact of a New Sea Ice Thermodynamic Formulation in the CESM2 Sea Ice Component. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2020MS002154	7.1	13
42	CO2 Increase Experiments Using the CESM: Relationship to Climate Sensitivity and Comparison of CESM1 to CESM2. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2020MS002120	7.1	12
41	Modeling photosynthesis in sea ice-covered waters. <i>Journal of Advances in Modeling Earth Systems</i> , 2015 , 7, 1189-1206	7.1	12
40	Evolution of summer Arctic sea ice albedo in CCSM4 simulations: Episodic summer snowfall and frozen summers. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 284-303	3.3	12
39	Global Climate Models and 20th and 21st Century Arctic Climate Change. <i>Atmospheric and Oceanographic Sciences Library</i> , 2012 , 405-436		12

38	Synoptically forced hydroclimatology of major Arctic watersheds in general circulation models; Part 2: Eurasian watersheds. <i>International Journal of Climatology</i> , 2009 , 29, 1244-1261	3.5	11
37	Partitioning uncertainty in projections of Arctic sea ice. <i>Environmental Research Letters</i> , 2021 , 16, 044002	2.2	11
36	The Regional, Seasonal, and Lagged Influence of the Amundsen Sea Low on Antarctic Sea Ice. <i>Geophysical Research Letters</i> , 2018 , 45, 11,227	4.9	11
35	Multiple Equilibria and Abrupt Transitions in Arctic Summer Sea Ice Extent. <i>Geophysical Monograph Series</i> , 2013 , 151-174	1.1	10
34	Changing Seasonal Predictability of Arctic Summer Sea Ice Area in a Warming Climate. <i>Journal of Climate</i> , 2019 , 32, 4963-4979	4.4	9
33	Tropical teleconnection impacts on Antarctic climate changes. <i>Nature Reviews Earth & Environment</i> , 2021 , 2, 680-698	30.2	9
32	Links between the Amundsen Sea Low and sea ice in the Ross Sea: seasonal and interannual relationships. <i>Climate Dynamics</i> , 2019 , 52, 2333-2349	4.2	8
31	The great sea-ice dwindle. <i>Nature Geoscience</i> , 2013 , 6, 10-11	18.3	8
30	Response of sea-ice models to perturbations in surface heat flux. <i>Annals of Glaciology</i> , 1997 , 25, 193-197	2.5	8
29	Thermodynamic feedback processes in a single-column sea-ice-ocean model. <i>Annals of Glaciology</i> , 1997 , 25, 327-332	2.5	6
28	Arctic Ocean sea ice snow depth evaluation and bias sensitivity in CCSM		6
27	An Overview of Antarctic Sea Ice in the Community Earth System Model Version 2, Part I: Analysis of the Seasonal Cycle in the Context of Sea Ice Thermodynamics and Coupled Atmosphere-Ocean-Ice Processes. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2020MS002143	7.1	6
26	The impact of rising atmospheric CO ₂ on Simulated sea ice induced thermohaline circulation variability. <i>Geophysical Research Letters</i> , 2000 , 27, 1519-1522	4.9	5
25	Arctic sea ice sensitivity to lateral melting representation in a coupled climate model. <i>Cryosphere</i> , 2022 , 16, 419-434	5.5	5
24	Arctic Ocean Freshwater in CMIP6 Ensembles: Declining Sea Ice, Increasing Ocean Storage and Export. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2020JC016930	3.3	5
23	Snow on Arctic Sea Ice in a Warming Climate as Simulated in CESM. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2020JC016308	3.3	5
22	The call of the emperor penguin: Legal responses to species threatened by climate change. <i>Global Change Biology</i> , 2021 , 27, 5008-5029	11.4	5
21	An Ice-Free Arctic? Opportunities for Computational Science. <i>Computing in Science and Engineering</i> , 2007 , 9, 65-74	1.5	4

20	An Assessment of the Temporal Variability in the Annual Cycle of Daily Antarctic Sea Ice in the NCAR Community Earth System Model, Version 2: A Comparison of the Historical Runs With Observations. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2020JC016459	3.3	3
19	Going with the floe: tracking CESM Large Ensemble sea ice in the Arctic provides context for ship-based observations. <i>Cryosphere</i> , 2020 , 14, 1259-1271	5.5	3
18	Coupled ice-ocean modeling and predictions. <i>Journal of Marine Research</i> , 2017 , 75, 839-875	1.5	3
17	The effects of snowfall on a snow-ice-thickness distribution. <i>Annals of Glaciology</i> , 1997 , 25, 287-291	2.5	3
16	Advances in ocean modeling for climate change research. <i>Reviews of Geophysics</i> , 1995 , 33, 1411-1424	23.1	3
15	The effects of snowfall on a snow-ice-thickness distribution. <i>Annals of Glaciology</i> , 1997 , 25, 287-291	2.5	3
14	The Emergence and Transient Nature of Arctic Amplification in Coupled Climate Models. <i>Frontiers in Earth Science</i> , 2021 , 9,	3.5	3
13	CO2 increase experiments using the Community Earth System Model (CESM): Relationship to climate sensitivity and comparison of CESM1 to CESM2		3
12	Arctic Sea Ice and the Potential for Abrupt Loss. <i>Geophysical Monograph Series</i> , 2010 , 181-191	1.1	2
11	The influence of snow on sea ice as assessed from simulations of CESM2. <i>Cryosphere</i> , 2021 , 15, 4981-4993	3.5	2
10	Sea Ice Model Intercomparison Project (SIMIP): Understanding sea ice through climate-model simulations 2016 ,		2
9	Influences of changing sea ice and snow thicknesses on simulated Arctic winter heat fluxes. <i>Cryosphere</i> , 2022 , 16, 1483-1495	5.5	2
8	Sea Ice Summer Camp: Bringing Together Sea Ice Modelers and Observers to Advance Polar Science. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 2057-2059	6.1	1
7	Sensitivity of Arctic Sea Ice Thickness to Intermodel Variations in the Surface Energy Budget. <i>Geophysical Monograph Series</i> , 2013 , 77-90	1.1	1
6	When will the Arctic Ocean become ice-free?. <i>Arctic, Antarctic, and Alpine Research</i> , 2021 , 53, 217-218	1.8	1
5	Interannual SAM Modulation of Antarctic Sea Ice Extent Does Not Account for Its Long-Term Trends, Pointing to a Limited Role for Ozone Depletion. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094871	4.9	1
4	Impacts of Sea Ice Mushy Thermodynamics in the Antarctic on the Coupled Earth System. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094287	4.9	1
3	Thermodynamic feedback processes in a single-column sea-ice-ocean model. <i>Annals of Glaciology</i> , 1997 , 25, 327-332	2.5	

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1 New perspectives through data discovery and modeling. *Eos*, **2007**, 88, 278-278

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