A Diagnostic Iceâ€“Ocean Model

Journal of Physical Oceanography
17, 987-1015
DOI: 10.1175/1520-0485(1987)017<0987:adim>2.0.co;2

Citation Report

#	Article	IF	Citations
1	A comparison of simulated and observed fluctuations in summertime Arctic surface albedo. Journal of Geophysical Research, 1987, 92, 13115-13125.	3.3	32
2	A coupled oneâ€dimensional sea iceâ€ocean model. Journal of Geophysical Research, 1987, 92, 13164-13172.	3.3	82
3	On the ice and heat balance in Fram Strait. Journal of Geophysical Research, 1988, 93, 527-531.	3.3	66
4	A threeâ€dimensional coupled iceâ€ocean model of coastal circulation. Journal of Geophysical Research, 1988, 93, 10731-10748.	3.3	11
5	Modeling ice dynamics of coastal seas. Journal of Geophysical Research, 1988, 93, 15619-15637.	3.3	80
6	Simulated fluctuations in annual labrador seaâ€ice cover. Atmosphere - Ocean, 1988, 26, 16-39.	1.6	25
7	A numerical model simulation of a summer reversal of the Beaufort Gyre. Geophysical Research Letters, 1989, 16, 69-72.	4.0	19
8	A twoâ€dimensional coupled iceâ€ocean model of the Bering Sea marginal ice zone. Journal of Geophysical Research, 1989, 94, 10921-10935.	3.3	40
9	An iceâ€ocean coupled model. Journal of Geophysical Research, 1989, 94, 10937-10954.	3.3	270
10	A review of sea ice and ocean modeling relevant to the Labrador and Newfoundland shelves. IEEE Transactions on Geoscience and Remote Sensing, 1989, 27, 535.	6.3	6
11	Arctic Seaâ€ice extent and anomalies, 1953â€“1984. Atmosphere - Ocean, 1989, 27, 376-405.	1.6	114
12	On a Simple Sea-Ice Dynamics Model for Climate Studies. Annals of Glaciology, 1990, 14, 72-77.	1.4	8
13	On The Interannual Variability Of A Diagnostic Ice-Ocean Model. Annals of Glaciology, 1990, 14, 339.	1.4	0
14	The Effect Of Rheology On Seasonal Sea-Ice Simulations. Annals of Glaciology, 1990, 14, 340.	1.4	10
15	Seasonal Arctic Sea-Ice Simulations With A Prognostic Ice-Ocean Model. Annals of Glaciology, 1990, 14, 338-339.	1.4	2
17	Sea Ice Modeling In The Barents Sea During Sizex 89. , 0, , .		2
18	Reply [to â€œComment on â€˜Seasonal variations in sea ice motion and effects on sea ice concentration in the Canada Basinâ€™ by M. C. Serreze et al.â€]. Journal of Geophysical Research, 1990, 95, 5407-5408.	3.3	0
19	Multiyear sea ice in the Arctic: Modelâ€and satelliteâ€derived. Journal of Geophysical Research, 1990, 95, 11613-11628.	3.3	38

#	Article	IF	Citations
20	A dynamic and thermodynamic sea ice model for subpolar regions. Journal of Geophysical Research, 1990, 95, 13433-13457.	3.3	3
21	Sea ice concentrations in the Canada Basin during 1988: Comparisons with other years and evidence of multiple forcing mechanisms. Journal of Geophysical Research, 1990, 95, 22253-22267.	3.3	14
22	Application of a coupled iceâ€ocean model to the Labrador Sea. Atmosphere - Ocean, 1991, 29, 232-255.	1.6	4
23	A numerical ocean circulation model of the Norwegian and Greenland Seas. Progress in Oceanography, 1991, 27, 365-402.	3.2	17
24	Studies of the Arctic ice cover and upper ocean with a coupled iceâ€ocean model. Journal of Geophysical Research, 1991, 96, 4631-4650.	3.3	17
25	A numerical study of interannual ocean forcing on Arctic ice. Journal of Geophysical Research, 1991, 96, 4589-4603.	3.3	41
26	Fram Strait satellite imageâ€derived ice motions. Journal of Geophysical Research, 1991, 96, 4751-4768.	3.3	107
27	The development of a coupled iceâ€ocean model for forecasting ice conditions in the Arctic. Journal of Geophysical Research, 1991, 96, 16955-16977.	3.3	41
28	Seasonal variations in the West Spitsbergen Current estimated from bottom pressure measurements. Journal of Geophysical Research, 1991, 96, 18381-18395.	3.3	31
29	Seasonal Arctic sea-ice simulations with a prognostic ice-ocean model. Annals of Glaciology, 1991, 15, 45-53.	1.4	5
30	Synoptic and seasonal variations of the ice-ocean circulation in the Arctic: a numerical study. Annals of Glaciology, 1991, 15, 54-62.	1.4	3
31	On the role of ocean circulation in seasonal and interannual ice-edge variations in the Bering Sea. Annals of Glaciology, 1991, 15, 37-44.	1.4	2
32	On the effect of rheology on seasonal sea-ice simulations. Annals of Glaciology, 1991, 15, 17-25.	1.4	64
33	Low-Level Temperature Inversions of the Eurasian Arctic and Comparisons with Soviet Drifting Station Data. Journal of Climate, 1992, 5, 615-629.	3.2	201
34	An examination of several ice control mechanisms in a coupled iceâ€ocean numerical model of the arctic. Atmosphere - Ocean, 1992, 30, 479-499.	1.6	1
35	Tropospheric lowâ€level temperature inversions in the Canadian Arctic. Atmosphere - Ocean, 1992, 30, 511-529.	1.6	68
36	Laboratory Simulation of Exchange Through Fram Strait. Journal of Geophysical Research, 1992, 97, 11299-11321.	3.3	36
37	An iceâ€ocean coupled model for the Northern Hemisphere. Geophysical Research Letters, 1992, 19, 901-904.	4.0	16

#	Article	IF	Citations
38	Modeling the seasonal variability of a coupled Arctic iceâ€ocean system. Journal of Geophysical Research, 1992, 97, 20285-20304.	3.3	101
39	The use of satellite observations in ice cover simulations. Geophysical Monograph Series, 1992, , 385-404.	0.1	3
40	A regional model for studies of atmosphere-ice-ocean interaction in the western Arctic. Meteorology and Atmospheric Physics, 1993, 51, 179-194.	2.0	26
41	Seaâ€ice interaction with the thermohaline circulation. Geophysical Research Letters, 1993, 20, 217-220.	4.0	62
42	Sensitivity study of a dynamic thermodynamic sea ice model. Journal of Geophysical Research, 1993, 98, 2561-2586.	3.3	84
43	Temporal variation of cloud fraction: Effects on a simulated seaâ€ice cover. Geophysical Research Letters, 1993, 20, 2651-2654.	4.0	5
44	An intermediate oneâ€dimensional thermodynamic sea ice model for investigating iceâ€atmosphere interactions. Journal of Geophysical Research, 1993, 98, 10085-10109.	3.3	349
45	Importance of convective mixing in seasonal ice margin simulations. Journal of Geophysical Research, 1993, 98, 16427-16448.	3.3	10
46	Ocean modeling in a global ocean observing system. Reviews of Geophysics, 1993, 31, 281.	23.0	18
47	The Arctic Sea Ice-Climate System: Observations and modeling. Reviews of Geophysics, 1993, 31, 397.	23.0	177
48	A simple time-dependent coupled ice-ocean model with application to the Greenland-Norwegian Sea. Tellus, Series A: Dynamic Meteorology and Oceanography, 1993, 45, 221-246.	1.7	5
49	Numerical Simulation of Arctic Sea-Ice and Ocean Circulation. Oceanography, 1994, 7, 27-28.	1.0	4
50	A two-dimensional model for the dynamics of sea ice. Philosophical Transactions of the Royal Society: Physical and Engineering Sciences, 1994, 347, 219-290.	1.0	39
51	Discrete element modelling of a broken ice field â€" Part I: model development. Cold Regions Science and Technology, 1994, 22, 339-347.	3.5	33
52	Grid transformation for incorporating the Arctic in a global ocean model. Climate Dynamics, 1994, 10, 241-247.	3.8	38
53	Seaâ€ice dynamics and CO₂sensitivity in a global climate model. Atmosphere - Ocean, 1994, 32, 449-467.	1.6	77
54	Interannual variability of seaâ€ice cover in Hudson bay, Baffin bay and the Labrador sea. Atmosphere - Ocean, 1994, 32, 421-447.	1.6	92
55	Design and numerical simulation of an Arctic Ocean circulation and thermodynamic sea-ice model. Advances in Atmospheric Sciences, 1995, 12, 289-310.	4.3	2

#	Article	IF	Citations
56	Remotely-sensed and simulated variability of Arctic sea-ice concentrations in response to atmospheric synoptic systems. International Journal of Remote Sensing, 1995, 16, 3325-3342.	2.9	7
57	Development of a Regional Climate Model of the Western Arctic. Journal of Climate, 1995, 8, 1555-1570.	3.2	146
58	Modeling of the Greenland, Iceland, and Norwegian Seas with a coupled sea iceâ€"mixed layerâ€"isopycnal ocean model. Journal of Geophysical Research, 1995, 100, 4771.	3.3	17
59	A numerical simulation of the sea ice cover in the northern Greenland Sea. Journal of Geophysical Research, 1995, 100, 4751.	3.3	8
60	Ridging and strength in modeling the thickness distribution of Arctic sea ice. Journal of Geophysical Research, 1995, 100, 18611.	3.3	172
61	Haline circulation induced by formation and melting of sea ice. Journal of Geophysical Research, 1995, 100, 20613.	3.3	14
62	Simulation of the mixed-layer circulation in the Arctic Ocean. Journal of Geophysical Research, 1996, 101, 1111-1128.	3.3	17
63	Comparison of sea ice simulations with interactive and monthly averaged forcing models. Journal of Geophysical Research, 1996, 101, 9359-9374.	3.3	13
64	Seasonal evolution of sea ice cover and shelf water off Labrador simulated in a coupled ice-ocean model. Journal of Geophysical Research, 1996, 101, 16465-16489.	3.3	8
65	On the representation of sea ice in global ocean general circulation models. Journal of Geophysical Research, 1996, 101, 18193-18212.	3.3	10
66	A dynamical model for wind-driven ice motion: Application to ice drift on the Labrador Shelf. Journal of Geophysical Research, 1996, 101, 28343-28364.	3.3	10
67	The effects of precipitation and river runoff in a coupled ice-ocean model of the Arctic. Climate Dynamics, 1996, 12, 785-798.	3.8	36
68	Deducing dynamic properties from simulated hydrographic data: Part I. Results from a non-eddy-resolving model. Journal of Marine Research, 1996, 54, 679-703.	0.3	3
69	An investigation of the general circulation of the Arctic Ocean using an isopycnal model. Tellus, Series A: Dynamic Meteorology and Oceanography, 1996, 48, 138-157.	1.7	10
70	On the ocean's upper boundary conditions in regions influenced by sea ice. Physica D: Nonlinear Phenomena, 1996, 98, 614-624.	2.8	5
71	An Inverse Method for Tracking Ice Motion in the Marginal Ice Zone Using Sequential Satellite Images. Journal of Atmospheric and Oceanic Technology, 1997, 14, 1455-1466.	1.3	2
72	Modeling of Antarctic Sea Ice in a General Circulation Model. Journal of Climate, 1997, 10, 593-609.	3.2	41
73	Two circulation regimes of the wind-driven Arctic Ocean. Journal of Geophysical Research, 1997, 102, 12493-12514.	3.3	546

#	Article	IF	Citations
74	The force balance of sea ice in a numerical model of the Arctic Ocean. Journal of Geophysical Research, 1997, 102, 21061-21079.	3.3	113
75	On an efficient numerical method for modeling sea ice dynamics. Journal of Geophysical Research, 1997, 102, 8691-8702.	3.3	242
76	The Younger Dryas Termination and North Atlantic Deep Water Formation: Insights from climate model simulations and Greenland Ice Cores. Paleoceanography, 1997, 12, 23-38.	3.0	101
77	On the role of sea-ice transport in modifying arctic responses to global climate change. Annals of Glaciology, 1997, 25, 102-106.	1.4	10
78	An Elasticâ€“Viscousâ€“Plastic Model for Sea Ice Dynamics. Journal of Physical Oceanography, 1997, 27, 1849-1867.	1.7	988
79	Dynamics of transport of â€œAtlantic signatureâ€•in the Arctic Ocean. Journal of Geophysical Research, 1998, 103, 31003-31015.	3.3	47
80	A 3-D coupled ice-ocean model applied to Hudson Bay, Canada: The seasonal cycle and time-dependent climate response to atmospheric forcing and runoff. Journal of Geophysical Research, 1998, 103, 27689-27705.	3.3	41
81	The Impact of Southern Ocean Sea Ice in a Global Ocean Model. Journal of Physical Oceanography, 1998, 28, 1999-2018.	1.7	44
82	Arctic Iceâ€“Ocean Modeling with and without Climate Restoring. Journal of Physical Oceanography, 1998, 28, 191-217.	1.7	89
83	A Comparison of Sea Ice Dynamics Models at High Resolution. Monthly Weather Review, 1999, 127, 396-408.	1.4	32
84	A diagnostic study of the Arctic Ocean winter density-driven circulation in 1973?79. Polar Research, 1999, 18, 27-38.	1.6	0
85	Numerical simulation of salinity anomaly propagation in the Nordic seas and the Arctic Ocean. Polar Research, 1999, 18, 159-166.	1.6	4
86	Prediction in ice-covered shallow seas. Coastal and Estuarine Studies, 1999, , 405-441.	0.4	4
87	A coupled iceâ€“ocean model for the Greenland, Iceland and Norwegian Seas. Deep-Sea Research Part II: Topical Studies in Oceanography, 1999, 46, 1169-1198.	1.4	14
88	The quality of sea ice velocity estimates. Journal of Geophysical Research, 1999, 104, 13627-13652.	3.3	26
89	Impact of mesoscale ocean currents on sea ice in high-resolution Arctic ice and ocean simulations. Journal of Geophysical Research, 1999, 104, 18409-18429.	3.3	49
90	Seasonal cycles in two regimes of Arctic climate. Journal of Geophysical Research, 1999, 104, 25761-25788.	3.3	73
91	Importance of ice-ocean interactions for the global ocean circulation: A model study. Journal of Geophysical Research, 1999, 104, 23337-23355.	3.3	420

#	Article	IF	Citations
92	Effects of Rheology and Ice Thickness Distribution in a Dynamicâ€“Thermodynamic Sea Ice Model. Journal of Physical Oceanography, 1999, 29, 2656-2670.	1.7	20
94	A Case Study of Regional Climate Anomalies in the Arctic: Performance Requirements for a Coupled Model. Journal of Climate, 2000, 13, 383-401.	3.2	30
95	Data assimilation in sea-ice monitoring. Annals of Glaciology, 2000, 31, 327-332.	1.4	5
96	Recent Changes in Arctic Sea Ice: The Interplay between Ice Dynamics and Thermodynamics. Journal of Climate, 2000, 13, 3099-3114.	3.2	191
98	Error analysis and assimilation of remotely sensed ice motion within an Arctic sea ice model. Journal of Geophysical Research, 2000, 105, 3339-3356.	3.3	76
99	Thin ice impacts on surface salt flux and ice strength: Inferences from advanced very high resolution radiometer. Journal of Geophysical Research, 2001, 106, 13975-13988.	3.3	9
100	Recent Arctic change simulated with a coupled ice-ocean model. Journal of Geophysical Research, 2001, 106, 4369-4390.	3.3	22
101	Title is missing!. , 2001, 57, 207-234.		49
102	Improved Sea Ice Parcel Trajectories in the Arctic via Data Assimilation. Marine Pollution Bulletin, 2001, 42, 505-511.	5.0	6
103	Two Regimes of the Arctic's Circulation from Ocean Models with Ice and Contaminants. Marine Pollution Bulletin, 2001, 43, 61-70.	5.0	22
104	A preliminary assessment of the Polar Ice Prediction System. , 0, , .		1
105	Modeling the High-Frequency Component of Arctic Sea Ice Drift and Deformation. Journal of Physical Oceanography, 2002, 32, 3039-3057.	1.7	80
106	Environmental Modelling and Prediction. , 2002, , .		15
107	A global coupled sea iceâ€“ocean model. Ocean Modelling, 2002, 4, 137-172.	2.4	138
108	Assimilation of ice motion observations and comparisons with submarine ice thickness data. Journal of Geophysical Research, 2003, 108, .	3.3	66
109	Effect of environmental conditions on observed, modeled, and assimilated sea ice motion errors. Journal of Geophysical Research, 2003, 108, .	3.3	33
110	North Atlantic Deep Water and Antarctic Bottom Water: Their interaction and influence on the variability of the global ocean circulation. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	33
111	On the role of thermohaline advection and sea ice in glacial transitions. Journal of Geophysical Research, 2003, 108, .	3.3	3

#	Article	IF	Citations
112	Variability of Arctic and North Atlantic sea ice: A combined analysis of model results and observations from 1978 to 2001. Journal of Geophysical Research, 2003, 108, .	3.3	67
113	Analysis of thermal inversions in the Khareef Salalah region in the Sultanate of Oman. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	30
114	Arctic warming: Evolution and spreading of the 1990s warm event in the Nordic seas and the Arctic Ocean. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	162
115	Mechanisms Determining the Variability of Arctic Sea Ice Conditions and Export. Journal of Climate, 2003, 16, 2843-2858.	3.2	86
116	Modeling Global Sea Ice with a Thickness and Enthalpy Distribution Model in Generalized Curvilinear Coordinates. Monthly Weather Review, 2003, 131, 845-861.	1.4	490
117	Modelling the dynamic response of sea ice. , 2004, , 227-334.		9
118	Thermohaline effects of the seasonal sea ice cover in the Sea of Okhotsk. Journal of Geophysical Research, 2004, 109, .	3.3	22
119	Influence of the Exchanges between the Atlantic and the Arctic on Sea Ice Volume Variations during the Period 1955â€“97. Journal of Climate, 2004, 17, 1294-1305.	3.2	9
120	Maintenance of the Sea-Ice Edge. Journal of Climate, 2005, 18, 2903-2921.	3.2	120
121	A Coupled Ice-Ocean Model in the Pan-Arctic and North Atlantic Ocean: Simulation of Seasonal Cycles. Journal of Oceanography, 2005, 61, 213-233.	1.7	25
122	Preface page. , 2005, , xi-xi.		0
123	The atmospheric circulation. , 2005, , 74-109.		0
124	The surface energy budget. , 2005, , 110-146.		2
125	Precipitation, net precipitation and river discharge. , 2005, , 147-176.		0
126	Arctic oceanâ€“sea iceâ€“climate interactions. , 2005, , 177-207.		1
127	Physical characteristics and basic climatic features. , 2005, , 17-54.		1
128	Modeling the arctic climate system. , 2005, , 229-261.		0
129	The evolution of knowledge about the Arctic and its climate. , 2005, , 1-16.		2

#	Article	IF	Citations
130	The basic atmospheric heat budget. , 2005, , 55-73.		0
131	Climate regimes of the arctic. , 2005, , 208-228.		0
132	Arctic paleoclimates. , 2005, , 262-290.		0
133	Recent climate variability, trends and the future. , 2005, , 291-334.		1
135	List of selected websites. , 2005, , 377-377.		1
137	The Thinning of Arctic Sea Ice, 1988â€“2003: Have We Passed a Tipping Point?. Journal of Climate, 2005, 18, 4879-4894.	3.2	362
140	Coincident buoy- and SAR-derived surface fluxes in the western Weddell Sea during Ice Station Weddell 1992. Journal of Geophysical Research, 2005, 110, .	3.3	22
141	Response of the northern North Atlantic and Arctic oceans to a sudden change of the North Atlantic Oscillation. Journal of Geophysical Research, 2005, 110, .	3.3	34
142	Effect of sea ice rheology in numerical investigations of climate. Journal of Geophysical Research, 2005, 110, .	3.3	51
143	Simulated History Of Convection in the Greenland and Labrador seas, 1948â€”2001. Geophysical Monograph Series, 2005, , 221-238.	0.1	15
144	Origins of the SHEBA freshwater anomaly in the Mackenzie River delta. Geophysical Research Letters, 2006, 33, .	4.0	6
145	Impact of the Northern annular mode on the freshwater exchange between the Arctic and the North Atlantic. Deep-Sea Research Part I: Oceanographic Research Papers, 2006, 53, 474-484.	1.4	1
146	The role of surface freshwater flux boundary conditions in Arctic Ocean modelling. Ocean Modelling, 2006, 13, 25-43.	2.4	24
147	Arctic Ocean Ice Thickness: Modes of Variability and the Best Locations from Which to Monitor Them*. Journal of Physical Oceanography, 2006, 36, 496-506.	1.7	18
148	Optimization of a Sea Ice Model Using Basinwide Observations of Arctic Sea Ice Thickness, Extent, and Velocity. Journal of Climate, 2006, 19, 1089-1108.	3.2	49
149	Characteristics of Satellite-Derived Clear-Sky Atmospheric Temperature Inversion Strength in the Arctic, 1980â€“96. Journal of Climate, 2006, 19, 4902-4913.	3.2	54
150	Assimilation of Ice Concentration in an Iceâ€“Ocean Model. Journal of Atmospheric and Oceanic Technology, 2006, 23, 742-749.	1.3	125
151	Modeling M2 tidal variability in Arctic Sea-ice drift and deformation. Annals of Glaciology, 2006, 44, 418-428.	1.4	20

#	Article	IF	Citations
152	Numerical simulation of impurity and fresh water propagation in the Arcticâ€“North Atlantic system. Russian Journal of Numerical Analysis and Mathematical Modelling, 2006, 21, .	0.6	3
153	Simulated Variability of the Arctic Ocean Freshwater Balance 1948â€“2001. Journal of Physical Oceanography, 2007, 37, 1628-1644.	1.7	28
154	Sea ice drift variability in Arctic Ocean Model Intercomparison Project models and observations. Journal of Geophysical Research, 2007, 112, .	3.3	41
155	A comparison of Arctic Ocean sea ice concentration among the coordinated AOMIP model experiments. Journal of Geophysical Research, 2007, 112, .	3.3	34
156	Fine-resolution simulation of surface current and sea ice in the Arctic Mediterranean Seas. Chinese Journal of Oceanology and Limnology, 2007, 25, 132-138.	0.7	2
157	Modeling the 20th century Arctic Ocean/Sea ice system: Reconstruction of surface forcing. Journal of Geophysical Research, 2008, 113, .	3.3	13
158	Improving stability of regional numerical ocean models. Ocean Dynamics, 2009, 59, 21-46.	2.2	16
159	Descending surface water at the antarctic marginal ice zone and its contribution to intermediate water: An ice-ocean model. Journal of Oceanography, 2009, 65, 587-603.	1.7	6
160	Modeling transport and fate of riverine dissolved organic carbon in the Arctic Ocean. Global Biogeochemical Cycles, 2009, 23, .	4.9	60
161	Simulated Response of the Arctic Freshwater Budget to Extreme NAO Wind Forcing. Journal of Climate, 2009, 22, 2422-2437.	3.2	50
162	Tracing freshwater anomalies through the airâ€landâ€ocean system: A case study from the Mackenzie river basin and the Beaufort Gyre. Atmosphere - Ocean, 2009, 47, 79-97.	1.6	19
163	Sea-ice models for climate study: retrospective and new directions. Journal of Glaciology, 2010, 56, 1162-1172.	2.2	78
164	Simulation of oceanic volume transports through Fram Strait 1995â€“2005. Ocean Dynamics, 2010, 60, 491-502.	2.2	46
165	High resolution and four-dimensional analysis as a prospect for ocean modelling. Russian Journal of Numerical Analysis and Mathematical Modelling, 2010, 25, .	0.6	6
166	On the formulation of sea-ice models. Part 1: Effects of different solver implementations and parameterizations. Ocean Modelling, 2010, 33, 129-144.	2.4	305
167	Arctic sea ice response to atmospheric forcings with varying levels of anthropogenic warming and climate variability. Geophysical Research Letters, 2010, 37, .	4.0	12
168	Mechanisms of summertime upper Arctic Ocean warming and the effect on sea ice melt. Journal of Geophysical Research, 2010, 115, .	3.3	118
169	Modeling the impact of declining sea ice on the Arctic marine planktonic ecosystem. Journal of Geophysical Research, 2010, 115, .	3.3	111

#	Article	IF	Citations
170	A model of the Arctic Ocean carbon cycle. Journal of Geophysical Research, 2011, 116, .	3.3	29
171	Modeling the formation and fate of the nearâ€surface temperature maximum in the Canadian Basin of the Arctic Ocean. Journal of Geophysical Research, 2011, 116, .	3.3	51
172	A Comparison of Southern Ocean Airâ€“Sea Buoyancy Flux from an Ocean State Estimate with Five Other Products. Journal of Climate, 2011, 24, 6283-6306.	3.2	62
173	Albedo of the ice covered Weddell and Bellingshausen Seas. Cryosphere, 2012, 6, 479-491.	3.9	13
174	What controls primary production in the Arctic Ocean? Results from an intercomparison of five general circulation models with biogeochemistry. Journal of Geophysical Research, 2012, 117, .	3.3	117
176	Evaluation of Arctic sea ice thickness simulated by Arctic Ocean Model Intercomparison Project models. Journal of Geophysical Research, 2012, 117, .	3.3	66
177	Fifty years of numerical modeling of baroclinic ocean. Izvestiya - Atmospheric and Oceanic Physics, 2012, 48, 1-14.	0.9	5
178	A Review of Coupled Ice-Ocean Models. Geophysical Monograph Series, 0, , 21-31.	0.1	13
179	THE ROLE OF THE BARENTS SEA IN THE ARCTIC CLIMATE SYSTEM. Reviews of Geophysics, 2013, 51, 415-449.	23.0	362
180	On the Effect of Ocean Circulation on Arctic Ice-Margin Variations. Geophysical Monograph Series, 0, , 383-397.	0.1	4
181	A comparison between gradient descent and stochastic approaches for parameter optimization of a sea ice model. Ocean Science, 2013, 9, 609-630.	3.4	18
182	Arctic Ocean Circulation Patterns Revealed by GRACE. Journal of Climate, 2014, 27, 1445-1468.	3.2	56
183	Precipitation, Net Precipitation, and River Discharge. , 0, , 177-208.		0
184	Modeling the Arctic Climate System. , 0, , 273-310.		0
185	Seasonality and long-term trend of Arctic Ocean surface stress in a model. Journal of Geophysical Research: Oceans, 2014, 119, 1723-1738.	2.6	117
186	Exploring the utility of quantitative network design in evaluating Arctic sea ice thickness sampling strategies. Cryosphere, 2015, 9, 1721-1733.	3.9	13
187	Modelling the impact of riverine DON removal by marine bacterioplankton on primary production in the Arctic Ocean. Biogeosciences, 2015, 12, 3385-3402.	3.3	14
188	The Beaufort Gyre intensification and stabilization: A model-observation synthesis. Journal of Geophysical Research: Oceans, 2016, 121, 7933-7952.	2.6	54

#	Article	IF	Citations
189	Influence of cystic tumor degeneration on management strategy in vestibular schwannoma. Journal of Laryngology and Otology, 2016, 130, S253-S253.	0.8	0
190	A review on Arctic seaâ€ice predictability and prediction on seasonal to decadal timeâ€scales. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 546-561.	2.7	177
191	Sea ice circulation around the Beaufort Gyre: The changing role of wind forcing and the sea ice state. Journal of Geophysical Research: Oceans, 2016, 121, 3278-3296.	2.6	61
192	An oceanic heat transport pathway to the Amundsen Sea Embayment. Journal of Geophysical Research: Oceans, 2016, 121, 3337-3349.	2.6	27
194	Greater Role of Geostrophic Currents in Ekman Dynamics in the Western Arctic Ocean as a Mechanism for Beaufort Gyre Stabilization. Journal of Geophysical Research: Oceans, 2018, 123, 149-165.	2.6	39
196	Evaluation of the Sea-Ice Simulation in the Upgraded Version of the Coupled Regional Atmosphere-Ocean- Sea Ice Model HIRHAMâ€"NAOSIM 2.0. Atmosphere, 2019, 10, 431.	2.3	9
197	An evaluation and implementation of the regional coupled ice-ocean model of the Baltic Sea. Ocean Dynamics, 2019, 69, 1-19.	2.2	3
198	Covariance of Optimal Parameters of an Arctic Sea Iceâ€"Ocean Model. Monthly Weather Review, 2019, 147, 2579-2602.	1.4	7
199	The 2018 North Greenland polynya observed by a newly introduced merged optical and passive microwave sea-ice concentration dataset. Cryosphere, 2019, 13, 2051-2073.	3.9	34
200	Simultaneous Parameter Optimization of an Arctic Sea Iceâ€"Ocean Model by a Genetic Algorithm. Monthly Weather Review, 2019, 147, 1899-1926.	1.4	18
201	Arctic Sea Ice Volume Variability over 1901â€"2010: A Model-Based Reconstruction. Journal of Climate, 2019, 32, 4731-4752.	3.2	48
202	Oceanâ€Waveâ€Atmosphere Interaction Processes in a Fully Coupled Modeling System. Journal of Advances in Modeling Earth Systems, 2019, 11, 3852-3874.	3.8	37
203	Evidence for an increasing role of ocean heat in Arctic winter sea ice growth. Journal of Climate, 2021, , 1-42.	3.2	22
204	Energetics of Eddy-Mean Flow Interactions in the Amery Ice Shelf Cavity. Frontiers in Marine Science, 2021, 8, .	2.5	1
205	Intercomparison of Arctic sea ice simulation in ROMS-CICE and ROMS-Budgell. Polar Science, 2021, 29, 100716.	1.2	5
206	Accelerated sea ice loss in the Wandel Sea points to a change in the Arcticâ€™s Last Ice Area. Communications Earth & Environment, 2021, 2, .	6.8	20
207	Arctic Ice-Ocean Dynamics. , 1989, , 47-91.		20
209	Interannual and Climatic Characteristics of an Ice Ocean Circulation Model. , 1993, , 633-651.		17

#	Article	IF	Citations
211	Modelling Sea Ice for Climate Studies. , 1990, , 97-123.		2
212	Coupled Ocean and Sea-Ice Models: Review and Perspectives. , 1989, , 253-277.		4
213	Modelling Sea Ice Thermodynamics and Dynamics in Climate Studies. , 1988, , 509-563.		5
214	On the Large-Scale Modeling of Sea Ice and Sea Iceâ€"Ocean Interactions. , 1998, , 399-422.		4
215	Models and Their Applications to Polar Oceanography. , 1990, , 335-384.		9
217	On the role of ocean circulation in seasonal and interannual ice-edge variations in the Bering Sea. Annals of Glaciology, 1991, 15, 37-44.	1.4	3
218	Seasonal Arctic sea-ice simulations with a prognostic ice-ocean model. Annals of Glaciology, 1991, 15, 45-53.	1.4	1
219	Interannual characteristics of an 80 km resolution diagnostic Arctic iceâ€"ocean model. Annals of Glaciology, 1991, 15, 155-162.	1.4	2
220	On the role of sea-ice transport in modifying Arctic responses to global climate change. Annals of Glaciology, 1997, 25, 102-106.	1.4	8
221	Numerical simulation of salinity anomaly propagation in the Nordic seas and the Arctic Ocean. Polar Research, 1999, 18, 159-166.	1.6	1
222	Evaluation of simulated sea-ice concentrations from sea-ice/ocean models using satellite data and polynya classification methods. Polar Research, 2011, 30, 7124.	1.6	19
224	Sea Ice Prediction: The Development of a Suite of Sea-Ice Forecasting Systems for the Northern Hemisphere. Oceanography, 1992, 5, 64-68.	1.0	9
225	Modelling of Climate Variability in Selected Ocean Basins. , 2009, , 153-224.		0
226	Sea Ice. Encyclopedia of Earth Sciences Series, 2011, , 964-969.	0.1	0
227	Sea-Iceâ€"Ocean Modelling. Atmospheric and Oceanographic Sciences Library, 2012, , 381-403.	0.1	0
229	Analysis of Sea Ice Cover Sensitivity in Global Climate Model. Nauka I Obrazovanie, 2014, 14, .	0.1	0
230	Climate and Development: Scientific Efforts and Assessment â€" The State of the Art. , 1990, , 67-122.		0
231	On The Interannual Variability Of A Diagnostic Ice-Ocean Model. Annals of Glaciology, 1990, 14, 339-339.	1.4	0

#	Article	IF	Citations
232	Synoptic and seasonal variations of the ice-ocean circulation in the Arctic: a numerical study. Annals of Glaciology, 1991, 15, 54-62.	1.4	0
233	Sea-Ice Interactions in Polar Regions. , 1993, , 295-322.		1
234	A diagnostic study of the Arctic Ocean winter density-driven circulation in 1973â€“79. Polar Research, 1999, 18, 27-38.	1.6	0
236	Regional Variability and Trends of Temperature Inversions in Greenland. Journal of Climate, 2020, 33, 9391-9407.	3.2	17
237	Increasing Winter Oceanâ€toâ€Ice Heat Flux in the Beaufort Gyre Region, Arctic Ocean Over 2006â€“2018. Geophysical Research Letters, 2022, 49, .	4.0	7
238	Characteristics of Arctic Summer Inversion and Its Correlation with Extreme Sea Ice Anomalies. Atmosphere, 2022, 13, 316.	2.3	3
243	Interannual variations of heat budget in the lower layer of the eastern Ross Sea shelf and the forcing mechanisms in the Southern Ocean State Estimate. International Journal of Climatology, 2023, 43, 5055-5076.	3.5	1
244	Evaluation of Arctic Sea Ice Thickness from a Parameter-Optimized Arctic Sea Iceâ€“Ocean Model. Remote Sensing, 2023, 15, 2537.	4.0	0
245	Numerical Investigation of Global Ice Loads of Maneuvering Captive Motion in Ice Floe Fields. Journal of Marine Science and Engineering, 2023, 11, 1778.	2.6	0