

New Trans-Arctic shipping routes navigable by midcentury

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Modeling foraging range for breeding colonies of thick-billed murres <i>Uria lomvia</i> in the Eastern Canadian Arctic and potential overlap with industrial development. <i>Biological Conservation</i> , 2013, 168, 134-143.	1.9	34
2	Vast costs of Arctic change. <i>Nature</i> , 2013, 499, 401-403.	13.7	137
3	Recent changes in the exchange of sea ice between the Arctic Ocean and the Canadian Arctic Archipelago. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 3595-3607.	1.0	69
4	Recent extreme light sea ice years in the Canadian Arctic Archipelago: 2011 and 2012 eclipse 1998 and 2007. <i>Cryosphere</i> , 2013, 7, 1753-1768.	1.5	14
5	Global change and the future ocean: a grand challenge for marine sciences. <i>Frontiers in Marine Science</i> , 2014, 1, .	1.2	108
6	Effects of explicit atmospheric convection at high CO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10943-10948.	3.3	24
8	Seasonal to interannual Arctic sea ice predictability in current global climate models. <i>Geophysical Research Letters</i> , 2014, 41, 1035-1043.	1.5	116
9	Pristine Arctic: Background mapping of PAHs, PAH metabolites and inorganic trace elements in the North-Atlantic Arctic and sub-Arctic coastal environment. <i>Science of the Total Environment</i> , 2014, 493, 719-728.	3.9	36
10	Climate Penalty for Shifting Shipping to the Arctic. <i>Environmental Science & Technology</i> , 2014, 48, 13273-13279.	4.6	29
11	Wildlife health in a rapidly changing North: focus on avian disease. <i>Frontiers in Ecology and the Environment</i> , 2014, 12, 548-556.	1.9	39
12	Arctic marine fishes and their fisheries in light of global change. <i>Global Change Biology</i> , 2014, 20, 352-359.	4.2	169
13	Changing sea ice conditions and marine transportation activity in Canadian Arctic waters between 1990 and 2012. <i>Climatic Change</i> , 2014, 123, 161-173.	1.7	123
14	Hotspots of coastal vulnerability: A DPSIR analysis to find societal pathways and responses. <i>Estuarine, Coastal and Shelf Science</i> , 2014, 140, 123-133.	0.9	101
15	North by Northeast: toward an Asian-Arctic region. <i>Eurasian Geography and Economics</i> , 2014, 55, 71-93.	1.7	33
16	Discrimination of oil spills from newly formed sea ice by synthetic aperture radar. <i>Remote Sensing of Environment</i> , 2014, 145, 1-14.	4.6	42
17	Variable wind, pack ice, and prey dispersion affect the long-term adequacy of protected areas for an Arctic sea duck. <i>Ecological Applications</i> , 2014, 24, 396-412.	1.8	28
18	Spatially mapped reductions in the length of the Arctic sea ice season. <i>Geophysical Research Letters</i> , 2014, 41, 4316-4322.	1.5	105
19	The "footloose" mechanism: Iceberg decay from hydrostatic stresses. <i>Geophysical Research Letters</i> , 2014, 41, 5522-5529.	1.5	49

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20	Identifying polar bear resource selection patterns to inform offshore development in a dynamic and changing Arctic. <i>Ecosphere</i> , 2014, 5, 1-24.	1.0	72
21	Contribution of ship traffic to aerosol particle concentrations downwind of a major shipping lane. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 8255-8267.	1.9	23
22	The climatological distribution of extreme Arctic winds and implications for ocean and sea ice processes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 7358-7377.	1.2	20
23	Wind-driven upwelling around grounded tabular icebergs. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 5820-5835.	1.0	30
24	Navigation condition evaluation based on grey-cloud whitening-weight function clustering theory. , 2015, , .		0
25	Integrated analysis of risks in terms of Russian Arctic zone sustainable development. <i>IOP Conference Series: Earth and Environmental Science</i> , 2015, 27, 012021.	0.2	4
26	Influence of climate model variability on projected Arctic shipping futures. <i>Earth's Future</i> , 2015, 3, 331-343.	2.4	63
27	Ice thickness in the Northwest Passage. <i>Geophysical Research Letters</i> , 2015, 42, 7673-7680.	1.5	72
28	Multiyear ice replenishment in the Canadian Arctic archipelago: 1997-2013. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 1623-1637.	1.0	15
29	Air quality monitoring in communities of the Canadian Arctic during the high shipping season with a focus on local and marine pollution. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2651-2673.	1.9	54
30	Revisiting the potential of melt pond fraction as a predictor for the seasonal Arctic sea ice extent minimum. <i>Environmental Research Letters</i> , 2015, 10, 054017.	2.2	39
31	Direct Transformations Formulae between Polar Gauss and Stereographic Projections. <i>Applied Mechanics and Materials</i> , 0, 744-746, 1689-1694.	0.2	0
32	Improved Arctic sea ice thickness projections using bias-corrected CMIP5 simulations. <i>Cryosphere</i> , 2015, 9, 2237-2251.	1.5	34
33	Quantifying Emerging Local Anthropogenic Emissions in the Arctic Region: The ACCESS Aircraft Campaign Experiment. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 441-460.	1.7	60
34	Seasonal spatial patterns in seabird and marine mammal distribution in the eastern Chukchi and western Beaufort seas: Identifying biologically important pelagic areas. <i>Progress in Oceanography</i> , 2015, 136, 175-200.	1.5	73
35	Observed trends and climate projections affecting marine ecosystems in the Canadian Arctic. <i>Environmental Reviews</i> , 2015, 23, 191-239.	2.1	42
36	Spatial and Temporal Variability in Shipping Traffic Off San Francisco, California. <i>Coastal Management</i> , 2015, 43, 575-588.	1.0	28
37	Polar bear population dynamics in the southern Beaufort Sea during a period of sea ice decline. <i>Ecological Applications</i> , 2015, 25, 634-651.	1.8	177

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38	Elevated levels of ingested plastic in a high Arctic seabird, the northern fulmar (<i>Fulmarus glacialis</i>). <i>Polar Biology</i> , 2015, 38, 975-981.	0.5	114
39	Surface ablation model evaluation on a drifting ice island in the Canadian Arctic. <i>Cold Regions Science and Technology</i> , 2015, 110, 170-182.	1.6	13
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41	Limits to benthic feeding by eiders in a vital Arctic migration corridor due to localized prey and changing sea ice. <i>Progress in Oceanography</i> , 2015, 136, 162-174.	1.5	24
42	Relevance of a Particularly Sensitive Sea Area to the Bering Strait Region: a Policy Analysis Using Resilience-Based Governance Principles. <i>Ecology and Society</i> , 2015, 20, .	1.0	8
43	Scientists Raise Alarms about Fast Tracking of Transoceanic Canal through Nicaragua. <i>Environmental Science & Technology</i> , 2015, 49, 3989-3996.	4.6	15
44	An assessment of arctic sea ice concentration retrieval based on "HY-2" scanning radiometer data using field observations during CHINARE-2012 and other satellite instruments. <i>Acta Oceanologica Sinica</i> , 2015, 34, 42-50.	0.4	5
45	Anticipating novel conservation risks of increased human access to remote regions with warming. <i>Climate Change Responses</i> , 2015, 2, .	2.6	3
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48	The CMIP6 Sea-Ice Model Intercomparison Project (SIMIP): understanding sea ice through climate-model simulations. <i>Geoscientific Model Development</i> , 2016, 9, 3427-3446.	1.3	83
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50	Invasive Species: Ocean Ecosystem Case Studies for Earth Systems and Environmental Sciences. , 2016, , .		0
51	Biological effects of marine diesel oil exposure in red king crab (<i>Paralithodes camtschaticus</i>) assessed through a water and foodborne exposure experiment. <i>Marine Environmental Research</i> , 2016, 119, 126-135.	1.1	17
52	Transitions in Arctic ecosystems: Ecological implications of a changing hydrological regime. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 650-674.	1.3	167
53	Making sense of Arctic maritime traffic using the Polar Operational Limits Assessment Risk Indexing System (POLARIS). <i>IOP Conference Series: Earth and Environmental Science</i> , 2016, 34, 012034.	0.2	25
54	A review on Arctic sea ice predictability and prediction on seasonal to decadal time scales. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 546-561.	1.0	177
55	Advancing Polar Prediction Capabilities on Daily to Seasonal Time Scales. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 1631-1647.	1.7	199

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56	Survival of ship biofouling assemblages during and after voyages to the Canadian Arctic. <i>Marine Biology</i> , 2016, 163, 250.	0.7	23
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58	A quantitative assessment of Arctic shipping in 2010â€”2014. <i>Scientific Reports</i> , 2016, 6, 30682.	1.6	140
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61	A dynamic ocean management proposal for the Bering Strait region. <i>Marine Policy</i> , 2016, 74, 177-185.	1.5	6
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63	A three dimensional infinite wedge shaped solid block sliding into water along an inclined beach. <i>Journal of Fluids and Structures</i> , 2016, 66, 447-461.	1.5	4
64	White Arctic vs. Blue Arctic: A case study of diverging stakeholder responses to environmental change. <i>Earth's Future</i> , 2016, 4, 396-405.	2.4	17
65	Arctic marine phytobenthos of northern Baffin Island. <i>Journal of Phycology</i> , 2016, 52, 532-549.	1.0	31
66	Sea ice decline and 21st century transâ€”Arctic shipping routes. <i>Geophysical Research Letters</i> , 2016, 43, 9720-9728.	1.5	255
67	Early life stages of an arctic keystone species (<i>Boreogadus saida</i>) show high sensitivity to a water-soluble fraction of crude oil. <i>Environmental Pollution</i> , 2016, 218, 605-614.	3.7	42
68	Wind and Wave Climate in the Arctic Ocean as Observed by Altimeters. <i>Journal of Climate</i> , 2016, 29, 7957-7975.	1.2	86
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72	Polar seaways? Maritime transport in the Arctic: An analysis of shipowners' intentions II. <i>Journal of Transport Geography</i> , 2016, 57, 105-114.	2.3	51
73	Forecasting the relative influence of environmental and anthropogenic stressors on polar bears. <i>Ecosphere</i> , 2016, 7, e01370.	1.0	92

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75	The influence of declining sea ice on shipping activity in the Canadian Arctic. <i>Geophysical Research Letters</i> , 2016, 43, 12,146.	1.5	108
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77	Regional variability of a projected sea ice-free Arctic during the summer months. <i>Geophysical Research Letters</i> , 2016, 43, 256-263.	1.5	66
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79	Technological and environmental challenges of Arctic shipping—a case study of a fictional voyage in the Arctic. <i>Polar Research</i> , 2016, 35, 279-287.	1.6	13
80	Metabarcoding reveals strong spatial structure and temporal turnover of zooplankton communities among marine and freshwater ports. <i>Diversity and Distributions</i> , 2016, 22, 493-504.	1.9	83
81	Intact ecosystems provide best defence against climate change. <i>Nature Climate Change</i> , 2016, 6, 122-124.	8.1	126
82	Sustainable Development in the Bering Strait: Indigenous Values and the Challenge of Collaborative Governance. <i>Society and Natural Resources</i> , 2016, 29, 791-806.	0.9	9
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86	Diet compositions and trophic guild structure of the eastern Chukchi Sea demersal fish community. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2017, 135, 95-110.	0.6	24
87	Mitigation implications of an ice-free summer in the Arctic Ocean. <i>Earth's Future</i> , 2017, 5, 59-66.	2.4	8
88	An Electromagnetic Detection Case Study on Crude Oil Injection in a Young Sea Ice Environment. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 4465-4475.	2.7	17
89	Skillful regional prediction of Arctic sea ice on seasonal timescales. <i>Geophysical Research Letters</i> , 2017, 44, 4953-4964.	1.5	102
90	Transported biofilms and their influence on subsequent macrofouling colonization. <i>Biofouling</i> , 2017, 33, 433-449.	0.8	20
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96	Safety distance modeling for ship escort operations in Arctic ice-covered waters. <i>Ocean Engineering</i> , 2017, 146, 202-216.	1.9	61
97	Improved Sea Ice Forecasting through Spatiotemporal Bias Correction. <i>Journal of Climate</i> , 2017, 30, 9493-9510.	1.2	15
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100	“Have you entered the storehouses of the snow?” China as a norm entrepreneur in the Arctic. <i>Polar Record</i> , 2017, 53, 117-130.	0.4	17
101	Cumulative human impacts in the Bering Strait Region. <i>Ecosystem Health and Sustainability</i> , 2017, 3, .	1.5	6
102	Towards a balanced view of Arctic shipping: estimating economic impacts of emissions from increased traffic on the Northern Sea Route. <i>Climatic Change</i> , 2017, 143, 143-155.	1.7	58
103	An experimental study on the interactions between surface waves and floating viscoelastic covers. <i>Wave Motion</i> , 2017, 70, 195-208.	1.0	29
104	Viability of transarctic shipping routes: a literature review from the navigational and commercial perspectives. <i>Maritime Policy and Management</i> , 2017, 44, 16-41.	1.9	79
105	Increasing transnational sea-ice exchange in a changing Arctic Ocean. <i>Earth's Future</i> , 2017, 5, 633-647.	2.4	20
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107	Icescapes. <i>American Art</i> , 2017, 31, 48-50.	0.3	0
109	Challenges of Sea-Ice Prediction for Arctic Marine Policy and Planning. <i>Journal of Borderlands Studies</i> , 2018, 33, 255-272.	0.8	22
110	Potential impacts of offshore oil spills on polar bears in the Chukchi Sea. <i>Environmental Pollution</i> , 2018, 235, 652-659.	3.7	17

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111	A multi-species synthesis of satellite telemetry data in the Pacific Arctic (1987â€“2015): Overlap of marine mammal distributions and core use areas. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2018, 152, 132-153.	0.6	27
112	Wave radiation and diffraction by a circular cylinder submerged below an ice sheet with a crack. <i>Journal of Fluid Mechanics</i> , 2018, 845, 682-712.	1.4	25
113	Arctic shipping: A systematic literature review of comparative studies. <i>Journal of Transport Geography</i> , 2018, 69, 112-128.	2.3	87
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115	Natural history museum data on Canadian Arctic marine benthos. <i>Marine Biodiversity</i> , 2018, 48, 1357-1367.	0.3	3
116	Revisiting history: Can shipping achieve a second socio-technical transition for carbon emissions reduction?. <i>Transportation Research, Part D: Transport and Environment</i> , 2018, 58, 292-307.	3.2	41
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119	Optimal Arctic Port locations: a quantitative composite multiplier analysis of potential sites. <i>Polar Geography</i> , 2018, 41, 55-74.	0.8	8
120	What historical landfast ice observations tell us about projected ice conditions in Arctic archipelagoes and marginal seas under anthropogenic forcing. <i>Cryosphere</i> , 2018, 12, 3577-3588.	1.5	7
121	A probabilistic verification score for contours: Methodology and application to Arctic iceâ€œedge forecasts. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 735-743.	1.0	26
122	Socio-cyberphysical systems and intellectual space in the development of the Arctic zone of the Russian Federation. <i>SHS Web of Conferences</i> , 2018, 44, 00028.	0.1	4
123	Improving Met Office seasonal predictions of Arctic sea ice using assimilation of CryoSat-2 thickness. <i>Cryosphere</i> , 2018, 12, 3419-3438.	1.5	75
124	An Improved A* Algorithm Based on Hesitant Fuzzy Set Theory for Multi-Criteria Arctic Route Planning. <i>Symmetry</i> , 2018, 10, 765.	1.1	22
125	Development of efficiency module of organization of Arctic sea cargo transportation with application of neural network technologies. <i>Journal of Physics: Conference Series</i> , 2018, 1015, 042057.	0.3	0
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130	Impacts of a lengthening open water season on Alaskan coastal communities: deriving locally relevant indices from large-scale datasets and community observations. <i>Cryosphere</i> , 2018, 12, 1779-1790.	1.5	21
131	Making the Arctic predictable: the changing information infrastructure of Arctic weather and sea ice services. <i>Polar Geography</i> , 2018, 41, 279-293.	0.8	20
132	An experimental study on gravity waves through a floating viscoelastic cover. <i>Cold Regions Science and Technology</i> , 2018, 155, 289-299.	1.6	24
133	Changing state of Arctic sea ice across all seasons. <i>Environmental Research Letters</i> , 2018, 13, 103001.	2.2	594
134	Cultural Transmission of Fine-Scale Fidelity to Feeding Sites May Shape Humpback Whale Genetic Diversity in Russian Pacific Waters. <i>Journal of Heredity</i> , 2018, 109, 724-734.	1.0	9
135	Hierarchical Bayesian model reveals the distributional shifts of Arctic marine mammals. <i>Diversity and Distributions</i> , 2018, 24, 1381-1394.	1.9	17
136	Multi-modal and short-range transmission loss in thin, ice-covered, near-shore Arctic waters. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 3126-3137.	0.5	8
137	Vulnerability of Arctic marine mammals to vessel traffic in the increasingly ice-free Northwest Passage and Northern Sea Route. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7617-7622.	3.3	86
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140	Assessing vessel slowdown for reducing auditory masking for marine mammals and fish of the western Canadian Arctic. <i>Marine Pollution Bulletin</i> , 2018, 135, 290-302.	2.3	41
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143	Maritime Transport in the Arctic After the Introduction of the Polar Code: A Discussion of the New Training Needs. <i>WMU Studies in Maritime Affairs</i> , 2018, , 383-398.	1.0	3
144	From Sensing to Sense-Making: Assessing and Visualizing Ship Operational Limitations in the Canadian Arctic Using Open-Access Ice Data. <i>WMU Studies in Maritime Affairs</i> , 2018, , 99-113.	1.0	3
145	Financial costs of conducting science in the Arctic: examples from seabird research. <i>Arctic Science</i> , 2018, 4, 624-633.	0.9	60
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147	Predicting regional and pan-Arctic sea ice anomalies with kernel analog forecasting. <i>Climate Dynamics</i> , 2019, 52, 5507-5525.	1.7	15
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150	Simulation of Wave Interaction With a Circular Ice Floe. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2019, 141, .	0.6	17
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152	Accuracy of current Arctic springtime water vapour estimates, assessed by Raman lidar. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 1234-1249.	1.0	8
153	Economic Effects of Climate Change in Alaska. <i>Weather, Climate, and Society</i> , 2019, 11, 245-258.	0.5	18
154	Vessel Operations in the Arctic, 2015-2017. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	37
155	The role of areas to be avoided in the governance of shipping in the greater Bering Strait region. <i>Marine Policy</i> , 2019, 110, 103564.	1.5	21
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157	Impact of assimilating sea ice concentration, sea ice thickness and snow depth in a coupled ocean-sea ice modelling system. <i>Cryosphere</i> , 2019, 13, 491-509.	1.5	31
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159	Wave climate analysis in the ice-free waters of Kara Sea. <i>Regional Studies in Marine Science</i> , 2019, 30, 100719.	0.4	4
160	Modeling seasonal onset of coastal ice. <i>Climatic Change</i> , 2019, 154, 125-141.	1.7	3
161	A Spring Barrier for Regional Predictions of Summer Arctic Sea Ice. <i>Geophysical Research Letters</i> , 2019, 46, 5937-5947.	1.5	29
162	Growth and metabolism of adult polar cod (<i>Boreogadus saida</i>) in response to dietary crude oil. <i>Ecotoxicology and Environmental Safety</i> , 2019, 180, 53-62.	2.9	13
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368	Research on ultrasonic-based investigation of mechanical properties of ice. <i>Acta Oceanologica Sinica</i> , 2021, 40, 97-105.	0.4	4
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