

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.	4.1	34
2	Vast costs of Arctic change. <i>Nature</i> , 2013, 499, 401-403.	27.8	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.	2.6	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.	3.9	14
5	Global change and the future ocean: a grand challenge for marine sciences. <i>Frontiers in Marine Science</i> , 2014, 1, .	2.5	108
6	Effects of explicit atmospheric convection at high CO <sub>2</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10943-10948.	7.1	24
8	Seasonal to interannual Arctic sea ice predictability in current global climate models. <i>Geophysical Research Letters</i> , 2014, 41, 1035-1043.	4.0	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.	8.0	36
10	Climate Penalty for Shifting Shipping to the Arctic. <i>Environmental Science &amp; Technology</i> , 2014, 48, 13273-13279.	10.0	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.	4.0	39
12	Arctic marine fishes and their fisheries in light of global change. <i>Global Change Biology</i> , 2014, 20, 352-359.	9.5	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.	3.6	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.	2.1	101
15	North by Northeast: toward an Asian-Arctic region. <i>Eurasian Geography and Economics</i> , 2014, 55, 71-93.	2.6	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.	11.0	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.	3.8	28
18	Spatially mapped reductions in the length of the Arctic sea ice season. <i>Geophysical Research Letters</i> , 2014, 41, 4316-4322.	4.0	105
19	The "footloose" mechanism: Iceberg decay from hydrostatic stresses. <i>Geophysical Research Letters</i> , 2014, 41, 5522-5529.	4.0	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.	2.2	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.	4.9	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.	3.3	20
23	Wind-driven upwelling around grounded tabular icebergs. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 5820-5835.	2.6	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.	0.3	4
26	Influence of climate model variability on projected Arctic shipping futures. <i>Earth's Future</i> , 2015, 3, 331-343.	6.3	63
27	Ice thickness in the Northwest Passage. <i>Geophysical Research Letters</i> , 2015, 42, 7673-7680.	4.0	72
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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.	4.9	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.	5.2	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.	3.9	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.	3.3	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.	3.2	73
35	Observed trends and climate projections affecting marine ecosystems in the Canadian Arctic. <i>Environmental Reviews</i> , 2015, 23, 191-239.	4.5	42
36	Spatial and Temporal Variability in Shipping Traffic Off San Francisco, California. <i>Coastal Management</i> , 2015, 43, 575-588.	2.0	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.	3.8	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.	1.2	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.	3.5	13
40	Evaluating the potential of ecological niche modelling as a component in marine non-indigenous species risk assessments. <i>Marine Pollution Bulletin</i> , 2015, 97, 470-487.	5.0	42
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.	3.2	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, .	2.3	8
43	Scientists Raise Alarms about Fast Tracking of Transoceanic Canal through Nicaragua. <i>Environmental Science &amp; Technology</i> , 2015, 49, 3989-3996.	10.0	15
44	An assessment of arctic sea ice concentration retrieval based on HY-2A scanning radiometer data using field observations during CHINARE-2012 and other satellite instruments. <i>Acta Oceanologica Sinica</i> , 2015, 34, 42-50.	1.0	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
46	Relative importance of vessel hull fouling and ballast water as transport vectors of nonindigenous species to the Canadian Arctic. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2015, 72, 1230-1242.	1.4	57
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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.	2.5	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.	3.0	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.	0.3	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.	2.7	177
55	Advancing Polar Prediction Capabilities on Daily to Seasonal Time Scales. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 1631-1647.	3.3	199

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61	A dynamic ocean management proposal for the Bering Strait region. <i>Marine Policy</i> , 2016, 74, 177-185.	3.2	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.	3.4	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.	6.3	17
65	Arctic marine phytobenthos of northern Baffin Island. <i>Journal of Phycology</i> , 2016, 52, 532-549.	2.3	31
66	Sea ice decline and 21st century trans-Arctic shipping routes. <i>Geophysical Research Letters</i> , 2016, 43, 9720-9728.	4.0	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.	7.5	42
68	Wind and Wave Climate in the Arctic Ocean as Observed by Altimeters. <i>Journal of Climate</i> , 2016, 29, 7957-7975.	3.2	86
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71	Validation of trophic and anthropic underwater noise as settlement trigger in blue mussels. <i>Scientific Reports</i> , 2016, 6, 33829.	3.3	29
72	Polar seaways? Maritime transport in the Arctic: An analysis of shipowners' intentions II. <i>Journal of Transport Geography</i> , 2016, 57, 105-114.	5.0	51
73	Forecasting the relative influence of environmental and anthropogenic stressors on polar bears. <i>Ecosphere</i> , 2016, 7, e01370.	2.2	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.	4.0	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.	4.0	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, 27977.	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.	4.1	83
81	Intact ecosystems provide best defence against climate change. <i>Nature Climate Change</i> , 2016, 6, 122-124.	18.8	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.	1.9	9
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85	On the future navigability of Arctic sea routes: High-resolution projections of the Arctic Ocean and sea ice. <i>Marine Policy</i> , 2017, 75, 300-317.	3.2	208
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.	1.4	24
87	Mitigation implications of an ice-free summer in the Arctic Ocean. <i>Earth's Future</i> , 2017, 5, 59-66.	6.3	8
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89	Skillful regional prediction of Arctic sea ice on seasonal timescales. <i>Geophysical Research Letters</i> , 2017, 44, 4953-4964.	4.0	102
90	Transported biofilms and their influence on subsequent macrofouling colonization. <i>Biofouling</i> , 2017, 33, 433-449.	2.2	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.	4.3	61
97	Improved Sea Ice Forecasting through Spatiotemporal Bias Correction. <i>Journal of Climate</i> , 2017, 30, 9493-9510.	3.2	15
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101	Cumulative human impacts in the Bering Strait Region. <i>Ecosystem Health and Sustainability</i> , 2017, 3, .	3.1	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.	3.6	58
103	An experimental study on the interactions between surface waves and floating viscoelastic covers. <i>Wave Motion</i> , 2017, 70, 195-208.	2.0	29
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105	Increasing transnational sea-ice exchange in a changing Arctic Ocean. <i>Earth's Future</i> , 2017, 5, 633-647.	6.3	20
106	An experimental study of microwave remote sensing of oil-contaminated young sea ice. , 2017, , .		1
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.	1.4	22
110	Potential impacts of offshore oil spills on polar bears in the Chukchi Sea. <i>Environmental Pollution</i> , 2018, 235, 652-659.	7.5	17

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111	A multi-species synthesis of satellite telemetry data in the Pacific Arctic (1987–2015): Overlap of marine mammal distributions and core use areas. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2018, 152, 132-153.	1.4	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.	3.4	25
113	Arctic shipping: A systematic literature review of comparative studies. <i>Journal of Transport Geography</i> , 2018, 69, 112-128.	5.0	87
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115	Natural history museum data on Canadian Arctic marine benthos. <i>Marine Biodiversity</i> , 2018, 48, 1357-1367.	1.0	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.	6.8	41
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118	Projecting present and future habitat suitability of ship-mediated aquatic invasive species in the Canadian Arctic. <i>Biological Invasions</i> , 2018, 20, 501-517.	2.4	66
119	Optimal Arctic Port locations: a quantitative composite multiplier analysis of potential sites. <i>Polar Geography</i> , 2018, 41, 55-74.	1.9	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.	3.9	7
121	A probabilistic verification score for contours: Methodology and application to Arctic ice edge forecasts. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 735-743.	2.7	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.	0.2	4
123	Improving Met Office seasonal predictions of Arctic sea ice using assimilation of CryoSat-2 thickness. <i>Cryosphere</i> , 2018, 12, 3419-3438.	3.9	75
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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.	0.4	0
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133	Changing state of Arctic sea ice across all seasons. Environmental Research Letters, 2018, 13, 103001.	5.2	594
134	Cultural Transmission of Fine-Scale Fidelity to Feeding Sites May Shape Humpback Whale Genetic Diversity in Russian Pacific Waters. Journal of Heredity, 2018, 109, 724-734.	2.4	9
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137	Vulnerability of Arctic marine mammals to vessel traffic in the increasingly ice-free Northwest Passage and Northern Sea Route. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7617-7622.	7.1	86
138	Seasonal vessel activity risk to seabirds in waters off Baffin Island, Canada. Ocean and Coastal Management, 2018, 163, 339-351.	4.4	10
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149	Aerosol Effect on the Cloud Phase of Low-Level Clouds Over the Arctic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7886-7899.	3.3	12
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151	Arctic Fog Detection Using Infrared Spectral Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 1643-1656.	1.3	10
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154	Vessel Operations in the Arctic, 2015–2017. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	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.	3.2	21
156	Where else? Assessing zones of alternate ballast water exchange in the Canadian eastern Arctic. <i>Marine Pollution Bulletin</i> , 2019, 139, 74-90.	5.0	13
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.	3.9	31
158	Potential faster Arctic sea ice retreat triggered by snowflakes' greenhouse effect. <i>Cryosphere</i> , 2019, 13, 969-980.	3.9	6
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160	Modeling seasonal onset of coastal ice. <i>Climatic Change</i> , 2019, 154, 125-141.	3.6	3
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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.	6.0	13
163	Fluid-structure interaction of a large ice sheet in waves. <i>Ocean Engineering</i> , 2019, 182, 102-111.	4.3	57
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