

# The polar regions in a 2°C warmer world

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Interrelated ecological impacts of climate change on an apex predator. <i>Ecological Applications</i> , 2020, 30, e02071.	1.8	57
2	Evaluating Post-Fire Vegetation Recovery in Cajander Larch Forests in Northeastern Siberia Using UAV Derived Vegetation Indices. <i>Remote Sensing</i> , 2020, 12, 2970.	1.8	23
3	Mammalian herbivory shapes intraspecific trait responses to warmer climate and nutrient enrichment. <i>Global Change Biology</i> , 2020, 26, 6742-6752.	4.2	14
4	Plant extinction excels plant speciation in the Anthropocene. <i>BMC Plant Biology</i> , 2020, 20, 430.	1.6	18
5	Spatially varying peatland initiation, Holocene development, carbon accumulation patterns and radiative forcing within a subarctic fen. <i>Quaternary Science Reviews</i> , 2020, 248, 106596.	1.4	21
6	A manipulative thermal challenge protocol for adult salmonids in remote field settings. , 2020, 8, coaa074.		7
7	Transcriptomic response to elevated water temperatures in adult migrating Yukon River Chinook salmon ( <i>Oncorhynchus tshawytscha</i> ). , 2020, 8, coaa084.		12
8	Increasing anthropogenic methane emissions arise equally from agricultural and fossil fuel sources. <i>Environmental Research Letters</i> , 2020, 15, 071002.	2.2	232
9	Detection of Microorganisms in Low-Temperature Water Environments by in situ Generation of Biogenic Nanoparticles. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, .	1.1	1
10	Performance evaluation of global hydrological models in six large Pan-Arctic watersheds. <i>Climatic Change</i> , 2020, 163, 1329-1351.	1.7	19
11	Vertical Land Motion From Presentâ€”Day Deglaciation in the Wider Arctic. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088144.	1.5	10
12	Separating direct and indirect effects of rising temperatures on biogenic volatile emissions in the Arctic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32476-32483.	3.3	31
13	Improved Estimates of Arctic Land Surface Phenology Using Sentinel-2 Time Series. <i>Remote Sensing</i> , 2020, 12, 3738.	1.8	15
14	Less climatic resilience in the Arctic. <i>Weather and Climate Extremes</i> , 2020, 30, 100275.	1.6	21
15	Evidence of prevalent heat stress in Yukon River Chinook salmon. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2020, 77, 1878-1892.	0.7	15
16	Transient benefits of climate change for a highâ€”Arctic polar bear ( <i>Ursus maritimus</i> ) subpopulation. <i>Global Change Biology</i> , 2020, 26, 6251-6265.	4.2	23
17	Multiproxy paleoceanographic study from the western Barents Sea reveals dramatic Younger Dryas onset followed by oscillatory warming trend. <i>Scientific Reports</i> , 2020, 10, 15667.	1.6	6
18	Differential impact of thermal and physical permafrost disturbances on High Arctic dissolved and particulate fluvial fluxes. <i>Scientific Reports</i> , 2020, 10, 11836.	1.6	20

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19	Rapid worldwide growth of glacial lakes since 1990. <i>Nature Climate Change</i> , 2020, 10, 939-945.	8.1	235
20	Vegetation Expansion on the Tibetan Plateau and Its Relationship with Climate Change. <i>Remote Sensing</i> , 2020, 12, 4150.	1.8	23
21	Divergence of Arctic shrub growth associated with sea ice decline. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33334-33344.	3.3	43
22	Body condition of phocid seals during a period of rapid environmental change in the Bering Sea and Aleutian Islands, Alaska. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2020, 181-182, 104904.	0.6	17
23	Light scattering by pure seawater at subzero temperatures. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2020, 162, 103306.	0.6	8
24	Assessing Global and Local Radiative Feedbacks Based on AGCM Simulations for 1980–2014/2017. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088063.	1.5	9
25	Variability in fin whale ( <i>Balaenoptera physalus</i> ) occurrence in the Bering Strait and southern Chukchi Sea in relation to environmental factors. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2020, 177, 104782.	0.6	7
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27	Determinants, effects, and coping strategies for low-yield periods of harvest: a qualitative study in two communities in Nunavut, Canada. <i>Food Security</i> , 2021, 13, 157-179.	2.4	8
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29	Modeling the Interconnectivity of Non-stationary Polar Ice Sheets. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
30	Environmental effects of stratospheric ozone depletion, UV radiation, and interactions with climate change: UNEP Environmental Effects Assessment Panel, Update 2020. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 1-67.	1.6	93
31	Diet and prey. , 2021, , 429-455.		6
32	Consistent trait–environment relationships within and across tundra plant communities. <i>Nature Ecology and Evolution</i> , 2021, 5, 458-467.	3.4	25
33	The Shrinking Resource Base of Pastoralism: Saami Reindeer Husbandry in a Climate of Change. <i>Frontiers in Sustainable Food Systems</i> , 2021, 4, .	1.8	12
34	Herbivory and warming interact in opposing patterns of covariation between arctic shrub species at large and local scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	9
35	A Perspective of the Cumulative Risks from Climate Change on Mt. Everest: Findings from the 2019 Expedition. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 1928.	1.2	4
36	Annual air temperature variability and biotic interactions explain tundra shrub species abundance. <i>Journal of Vegetation Science</i> , 2021, 32, e13009.	1.1	11

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37	Climate change impacts on population growth across a species's range differ due to nonlinear responses of populations to climate and variation in rates of climate change. <i>PLoS ONE</i> , 2021, 16, e0247290.	1.1	11
38	Effect of shipping activity on warming trends in the Canadian Arctic. <i>Journal of Chinese Geography</i> , 2021, 31, 369-388.	1.5	5
39	Accounting for species interactions is necessary for predicting how arctic arthropod communities respond to climate change. <i>Ecography</i> , 2021, 44, 885-896.	2.1	24
40	Ancient plant DNA reveals High Arctic greening during the Last Interglacial. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	29
41	Are Multi-Decadal Fluctuations in Arctic and Antarctic Surface Temperatures a Forced Response to Anthropogenic Emissions or Part of Internal Climate Variability?. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090631.	1.5	10
42	Integrating omics to characterize eco-physiological adaptations: How moose diet and metabolism differ across biogeographic zones. <i>Ecology and Evolution</i> , 2021, 11, 3159-3183.	0.8	5
43	Exposure of mammal genetic diversity to mid-21st century global change. <i>Ecography</i> , 2021, 44, 817-831.	2.1	25
44	Estimates of temporal-spatial variability of wildfire danger across the Pan-Arctic and extra-tropics. <i>Environmental Research Letters</i> , 2021, 16, 044060.	2.2	9
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46	Volatile organic compound emission in tundra shrubs – Dependence on species characteristics and the near-surface environment. <i>Environmental and Experimental Botany</i> , 2021, 184, 104387.	2.0	13
47	Vegetation responses to 26 years of warming at Latnjajaure Field Station, northern Sweden. <i>Arctic Science</i> , 2022, 8, 858-877.	0.9	13
48	Permafrost carbon feedbacks threaten global climate goals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	88
49	Are 100 Ensemble Members Enough to Capture the Remote Atmospheric Response to +2°C Arctic Sea Ice Loss?. <i>Journal of Climate</i> , 2021, 34, 3751-3769.	1.2	37
50	Divergent changes of the elevational synchronicity in vegetation spring phenology in North China from 2001 to 2017 in connection with variations in chilling. <i>International Journal of Climatology</i> , 2021, 41, 6109-6121.	1.5	17
51	Overwintering fires in boreal forests. <i>Nature</i> , 2021, 593, 399-404.	13.7	70
52	A New Paraglacial Typology of High Arctic Coastal Systems: Application to Recherchefjorden, Svalbard. <i>Annals of the American Association of Geographers</i> , 2022, 112, 184-205.	1.5	1
53	Emerging mosquitoes ( <i>Aedes nigripes</i> ) as a resource subsidy for wolf spiders ( <i>Pardosa glacialis</i> ) in western Greenland. <i>Polar Biology</i> , 0, , 1.	0.5	3
54	Long-term warming manipulations reveal complex decomposition responses across different tundra vegetation types. <i>Arctic Science</i> , 2022, 8, 979-991.	0.9	7

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59	Microcosm studies on the survival of <i>Escherichia coli</i> in the Kongsfjorden, an Arctic fjord. <i>Polar Science</i> , 2021, 30, 100722.	0.5	1
60	Warming amplification over the Arctic Pole and Third Pole: Trends, mechanisms and consequences. <i>Earth-Science Reviews</i> , 2021, 217, 103625.	4.0	157
61	Bowhead and beluga whale acoustic detections in the western Beaufort Sea 2008–2018. <i>PLoS ONE</i> , 2021, 16, e0253929.	1.1	6
62	Experimental warming differentially affects vegetative and reproductive phenology of tundra plants. <i>Nature Communications</i> , 2021, 12, 3442.	5.8	56
64	Egg retention of high-latitude sockeye salmon ( <i>Oncorhynchus nerka</i> ) in the Pilgrim River, Alaska, during the Pacific marine heatwave of 2014–2016. <i>Polar Biology</i> , 2021, 44, 1643-1654.	0.5	4
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66	Specific occupation of penguins under Neoglacial cooling on the Scott Coast, Antarctica. <i>Quaternary Science Reviews</i> , 2021, 264, 107010.	1.4	3
67	Quantifying the nature and strength of intraspecific density dependence in Arctic mosquitoes. <i>Oecologia</i> , 2021, 196, 1061-1072.	0.9	2
68	Co-production of knowledge reveals loss of Indigenous hunting opportunities in the face of accelerating Arctic climate change. <i>Environmental Research Letters</i> , 2021, 16, 095003.	2.2	28
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72	Can root-associated fungi mediate the impact of abiotic conditions on the growth of a High Arctic herb?. <i>Soil Biology and Biochemistry</i> , 2021, 159, 108284.	4.2	0
73	Mercury stable isotopes reveal the sources and transformations of atmospheric Hg in the high Arctic. <i>Applied Geochemistry</i> , 2021, 131, 105002.	1.4	23

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75	Variable responses of carbon and nitrogen contents in vegetation and soil to herbivory and warming in high-Arctic tundra. <i>Ecosphere</i> , 2021, 12, e03746.	1.0	5
76	Understanding the Cold Season Arctic Surface Warming Trend in Recent Decades. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094878.	1.5	9
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78	Demographic risk assessment for a harvested species threatened by climate change: polar bears in the Chukchi Sea. <i>Ecological Applications</i> , 2021, 31, e02461.	1.8	12
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80	Increasing temperature reduces cuticular melanism and immunity to fungal infection in a migratory insect. <i>Ecological Entomology</i> , 2022, 47, 109-113.	1.1	7
81	How does spatial heterogeneity affect inter- and intraspecific growth patterns in tundra shrubs?. <i>Journal of Ecology</i> , 2021, 109, 4115-4131.	1.9	11
82	The rapidly changing Arctic and its societal implications. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2021, 12, e735.	3.6	19
83	Survival and abundance of polar bears in Alaska's Beaufort Sea, 2001–2016. <i>Ecology and Evolution</i> , 2021, 11, 14250-14267.	0.8	14
84	Variation in winter site fidelity within and among individuals influences movement behavior in a partially migratory ungulate. <i>PLoS ONE</i> , 2021, 16, e0258128.	1.1	9
85	Biting insects in a rapidly changing Arctic. <i>Current Opinion in Insect Science</i> , 2021, 47, 75-81.	2.2	11
86	Effects of experimental fire in combination with climate warming on greenhouse gas fluxes in Arctic tundra soils. <i>Science of the Total Environment</i> , 2021, 795, 148847.	3.9	8
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94	Pronounced and unavoidable impacts of low-end global warming on northern high-latitude land ecosystems. Environmental Research Letters, 2020, 15, 044006.	2.2	25
95	Aboveground biomass corresponds strongly with drone-derived canopy height but weakly with greenness (NDVI) in a shrub tundra landscape. Environmental Research Letters, 2020, 15, 125004.	2.2	36
96	Periglacial vegetation dynamics in Arctic Russia: decadal analysis of tundra regeneration on landslides with time series satellite imagery. Environmental Research Letters, 2020, 15, 105020.	2.2	22
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98	Influence of sea ice dynamics on population energetics of Western Hudson Bay polar bears. , 2020, 8, coaa132.		4
99	Microbial genomics amidst the Arctic crisis. Microbial Genomics, 2020, 6, .	1.0	18
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104	Technical note: Mobile open dynamic chamber measurement of methane macroseeps in lakes. Hydrology and Earth System Sciences, 2020, 24, 6047-6058.	1.9	2
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142	Experimental Proof of a Solar-Powered Heat Pump System for Soil Thermal Stabilization. <i>Energies</i> , 2022, 15, 2118.	1.6	6
143	Vegetal Undercurrents—Obscured Riverine Dynamics of Plant Debris. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	6
144	Evaluation of Satellite-Derived Estimates of Lake Ice Cover Timing on Linn�vatnet, Kapp Linn�, Svalbard Using In-Situ Data. <i>Remote Sensing</i> , 2022, 14, 1311.	1.8	3
146	Different responses of surface freeze and thaw phenology changes to warming among Arctic permafrost types. <i>Remote Sensing of Environment</i> , 2022, 272, 112956.	4.6	12
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150	High resolution species distribution and abundance models cannot predict separate shrub datasets in adjacent Arctic fjords. <i>Diversity and Distributions</i> , 2022, 28, 956-975.	1.9	0
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153	Unexpected fish and squid in the central Arctic deep scattering layer. <i>Science Advances</i> , 2022, 8, eabj7536.	4.7	16
154	N/P Addition Is More Likely Than N Addition Alone to Promote a Transition from Moss-Dominated to Graminoid-Dominated Tundra in the High-Arctic. <i>Atmosphere</i> , 2022, 13, 676.	1.0	3

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156	Atmospheric trends over the Arctic Ocean in simulations from the Coordinated Regional Downscaling Experiment (CORDEX) and their driving GCMs. <i>Climate Dynamics</i> , 2022, 59, 3401-3426.	1.7	2
157	Impacts of elevation on plant traits and volatile organic compound emissions in deciduous tundra shrubs. <i>Science of the Total Environment</i> , 2022, 837, 155783.	3.9	5
158	Recent regional warming across the Siberian lowlands: a comparison between permafrost and non-permafrost areas. <i>Environmental Research Letters</i> , 2022, 17, 054047.	2.2	9
159	Pyrogenic organic matter as a nitrogen source to microbes and plants following fire in an Arctic heath tundra. <i>Soil Biology and Biochemistry</i> , 2022, 170, 108699.	4.2	8
160	Indigenous knowledge, mercury, and a remote Russian Indigenous river basin—Ponoi River. <i>Current Directions in Water Scarcity Research</i> , 2022, , 299-307.	0.2	0
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162	Seasonal climate drivers of peak NDVI in a series of Arctic peatlands. <i>Science of the Total Environment</i> , 2022, 838, 156419.	3.9	9
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164	Bidirectional Exchange of Biogenic Volatile Organic Compounds in Subarctic Heath Mesocosms During Autumn Climate Scenarios. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	2
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166	Distribution and prevalence of the myxozoan parasite <i>Tetracapsuloides bryosalmonae</i> in northernmost Europe: analysis of three salmonid species. <i>Diseases of Aquatic Organisms</i> , 2022, 151, 37-49.	0.5	1
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172	Herbivores in Arctic ecosystems: Effects of climate change and implications for carbon and nutrient cycling. <i>Annals of the New York Academy of Sciences</i> , 2022, 1516, 28-47.	1.8	10

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173	Biodiversity of coastal epibenthic macrofauna in Eastern Canadian Arctic: Baseline mapping for management and conservation. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	0
174	Behavioural thermoregulation by montane ungulates under climate warming. <i>Diversity and Distributions</i> , 2022, 28, 2229-2238.	1.9	5
175	Alpine shrub growth follows bimodal seasonal patterns across biomes – unexpected environmental controls. <i>Communications Biology</i> , 2022, 5, .	2.0	9
176	Satellite Observational Evidence of Contrasting Changes in Northern Eurasian Wildfires from 2003 to 2020. <i>Remote Sensing</i> , 2022, 14, 4180.	1.8	2
177	Spatiotemporal influences of climate and humans on muskox range dynamics over multiple millennia. <i>Global Change Biology</i> , 2022, 28, 6602-6617.	4.2	10
178	Current Siberian heating is unprecedented during the past seven millennia. <i>Nature Communications</i> , 2022, 13, .	5.8	17
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180	The Longest Baseline Record of Vegetation Dynamics in Antarctica Reveals Acute Sensitivity to Water Availability. <i>Earth's Future</i> , 2022, 10, .	2.4	3
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183	Arctic shrub expansion revealed by Landsat-derived multitemporal vegetation cover fractions in the Western Canadian Arctic. <i>Remote Sensing of Environment</i> , 2022, 281, 113228.	4.6	18
184	Molecular Biological Characteristics of Soil Microbiome in the Northern Part of the Novaya Zemlya Archipelago. <i>Eurasian Soil Science</i> , 2022, 55, 1106-1115.	0.5	3
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