

Record-low primary productivity and high plant damage caused by multiple weather events and pest outbreaks

Environmental Research Letters

9, 084006

DOI: [10.1088/1748-9326/9/8/084006](https://doi.org/10.1088/1748-9326/9/8/084006)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Impacts of snow season on ground-ice accumulation, soil frost and primary productivity in a grassland of sub-Arctic Norway. <i>Environmental Research Letters</i> , 2015, 10, 095007.	5.2	31
2	Climatic and biotic extreme events moderate long-term responses of above- and belowground sub-Arctic heathland communities to climate change. <i>Global Change Biology</i> , 2015, 21, 4063-4075.	9.5	45
3	Carbon budget estimation of a subarctic catchment using a dynamic ecosystem model at high spatial resolution. <i>Biogeosciences</i> , 2015, 12, 2791-2808.	3.3	19
4	Warming, Sheep and Volcanoes: Land Cover Changes in Iceland Evident in Satellite NDVI Trends. <i>Remote Sensing</i> , 2015, 7, 9492-9506.	4.0	15
5	Climate Drivers Linked to Changing Seasonality of Alaska Coastal Tundra Vegetation Productivity. <i>Earth Interactions</i> , 2015, 19, 1-29.	1.5	34
6	Snow season variability in a boreal-Arctic transition area monitored by MODIS data. <i>Environmental Research Letters</i> , 2016, 11, 125005.	5.2	10
7	Arctic browning: extreme events and trends reversing arctic greening. <i>Global Change Biology</i> , 2016, 22, 2960-2962.	9.5	187
8	Spatial heterogeneity of greening and browning between and within bioclimatic zones in northern West Siberia. <i>Environmental Research Letters</i> , 2016, 11, 115002.	5.2	54
9	Changes in growing season duration and productivity of northern vegetation inferred from long-term remote sensing data. <i>Environmental Research Letters</i> , 2016, 11, 084001.	5.2	223
10	From greening to browning: Catchment vegetation development and reduced S-deposition promote organic carbon load on decadal time scales in Nordic lakes. <i>Scientific Reports</i> , 2016, 6, 31944.	3.3	150
11	Changes in greening in the high Arctic: insights from a 30 year AVHRR max NDVI dataset for Svalbard. <i>Environmental Research Letters</i> , 2016, 11, 105004.	5.2	63
12	Changes in Winter Warming Events in the Nordic Arctic Region. <i>Journal of Climate</i> , 2016, 29, 6223-6244.	3.2	109
13	Changing Arctic snow cover: A review of recent developments and assessment of future needs for observations, modelling, and impacts. <i>Ambio</i> , 2016, 45, 516-537.	5.5	154
14	Persistent reduction of segment growth and photosynthesis in a widespread and important sub-Arctic moss species after cessation of three years of experimental winter warming. <i>Functional Ecology</i> , 2017, 31, 127-134.	3.6	12
15	Cold tolerance of the spring-feeding larvae of the eyespotted bud moth, <i>Spilonota ocellana</i> (Lepidoptera: Tortricidae). <i>Canadian Entomologist</i> , 2017, 149, 291-299.	0.8	2
16	Changing seasonality of panarctic tundra vegetation in relationship to climatic variables. <i>Environmental Research Letters</i> , 2017, 12, 055003.	5.2	81
17	Arctic Ecosystems and their Services Under Changing Climate: Predictive Modeling Assessment. <i>Geographical Review</i> , 2017, 107, 108-124.	1.8	9
18	Understanding the drivers of extensive plant damage in boreal and Arctic ecosystems: Insights from field surveys in the aftermath of damage. <i>Science of the Total Environment</i> , 2017, 599-600, 1965-1976.	8.0	74

#	ARTICLE	IF	CITATIONS
19	Sea-ice induced growth decline in Arctic shrubs. <i>Biology Letters</i> , 2017, 13, 20170122.	2.3	17
20	Vegetation Greening Trends at Two Sites in the Canadian Arctic: 1984–2015. <i>Arctic, Antarctic, and Alpine Research</i> , 2017, 49, 601-619.	1.1	21
21	Larval outbreaks in West Greenland: Instant and subsequent effects on tundra ecosystem productivity and CO ₂ exchange. <i>Ambio</i> , 2017, 46, 26-38.	5.5	41
22	Slowed Biogeochemical Cycling in Sub-arctic Birch Forest Linked to Reduced Mycorrhizal Growth and Community Change after a Defoliation Event. <i>Ecosystems</i> , 2017, 20, 316-330.	3.4	29
23	Intraspecific Differences in Spectral Reflectance Curves as Indicators of Reduced Vitality in High-Arctic Plants. <i>Remote Sensing</i> , 2017, 9, 1289.	4.0	33
24	Long-Term Climate Trends and Extreme Events in Northern Fennoscandia (1914–2013). <i>Climate</i> , 2017, 5, 16.	2.8	54
25	Vulnerability and resilience of the carbon exchange of a subarctic peatland to an extreme winter event. <i>Environmental Research Letters</i> , 2018, 13, 065009.	5.2	13
26	Decreased cryogenic disturbance: one of the potential mechanisms behind the vegetation change in the Arctic. <i>Polar Biology</i> , 2018, 41, 101-110.	1.2	8
27	The accuracy of climate variability and trends across Arctic Fennoscandia in four reanalyses. <i>International Journal of Climatology</i> , 2018, 38, 3878-3895.	3.5	16
28	Stress-induced secondary leaves of a boreal deciduous shrub (<i>Vaccinium myrtillus</i>) overwinter then regain activity the following growing season. <i>Nordic Journal of Botany</i> , 2018, 36, e01894.	0.5	4
29	Reviews and syntheses: Changing ecosystem influences on soil thermal regimes in northern high-latitude permafrost regions. <i>Biogeosciences</i> , 2018, 15, 5287-5313.	3.3	143
30	Increasing global vegetation browning hidden in overall vegetation greening: Insights from time-varying trends. <i>Remote Sensing of Environment</i> , 2018, 214, 59-72.	11.0	322
31	Insect Pest Management. , 2018, , 1015-1078.		3
32	The Impact of Tourist Traffic on the Condition and Cell Structures of Alpine Swards. <i>Remote Sensing</i> , 2018, 10, 220.	4.0	24
33	Alpine garden plants from six continents show high vulnerability to ice encasement. <i>Norsk Geografisk Tidsskrift</i> , 2018, 72, 57-64.	0.7	3
34	The biogeochemical consequences of litter transformation by insect herbivory in the Subarctic: a microcosm simulation experiment. <i>Biogeochemistry</i> , 2018, 138, 323-336.	3.5	20
35	Legacies of Historical Exploitation of Natural Resources Are More Important Than Summer Warming for Recent Biomass Increases in a Boreal–Arctic Transition Region. <i>Ecosystems</i> , 2019, 22, 1512-1529.	3.4	6
36	Patterns of Arctic Tundra Greenness Based on Spatially Downscaled Solar-Induced Fluorescence. <i>Remote Sensing</i> , 2019, 11, 1460.	4.0	1

#	ARTICLE	IF	CITATIONS
37	Climate Prediction of Satellite-Based Spring Eurasian Vegetation Index (NDVI) using Coupled Singular Value Decomposition (SVD) Patterns. <i>Remote Sensing</i> , 2019, 11, 2123.	4.0	7
38	Evaluation of the MODIS collections 5 and 6 for change analysis of vegetation and land surface temperature dynamics in North and South America. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 156, 121-134.	11.1	28
39	Snow cover trends in Finland over 1961–2014 based on gridded snow depth observations. <i>International Journal of Climatology</i> , 2019, 39, 3147-3159.	3.5	42
40	Changes in vegetation cover and snowmelt timing in the Noatak National Preserve of Northwestern Alaska estimated from MODIS and Landsat satellite image analysis. <i>European Journal of Remote Sensing</i> , 2019, 52, 542-556.	3.5	5
41	The polar regions in a 2°C warmer world. <i>Science Advances</i> , 2019, 5, eaaw9883.	10.3	289
42	Arctic browning: Impacts of extreme climatic events on heathland ecosystem CO ₂ fluxes. <i>Global Change Biology</i> , 2019, 25, 489-503.	9.5	56
43	Herbivory in Arctic Ecosystems. , 2020, , 446-456.		1
44	Space-Based Observations for Understanding Changes in the Arctic-Boreal Zone. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000652.	23.0	39
45	Below-ground responses to insect herbivory in ecosystems with woody plant canopies: A meta-analysis. <i>Journal of Ecology</i> , 2020, 108, 917-930.	4.0	29
46	How to survive winter?. , 2020, , 101-125.		1
47	Vertebrate viruses in polar ecosystems. , 2020, , 126-148.		0
49	Life in the extreme environments of our planet under pressure. , 2020, , 151-183.		0
50	Chemical ecology in the Southern Ocean. , 2020, , 251-278.		1
54	Physiological traits of the Greenland shark <i>Somniosus microcephalus</i> obtained during the TUNU-Expeditions to Northeast Greenland. , 2020, , 11-41.		0
55	Metazoan adaptation to deep-sea hydrothermal vents. , 2020, , 42-67.		4
56	Extremophiles populating high-level natural radiation areas (HLNRAs) in Iran. , 2020, , 68-86.		1
58	Metazoan life in anoxic marine sediments. , 2020, , 89-100.		0
59	The ecophysiology of responding to change in polar marine benthos. , 2020, , 184-217.		0

#	ARTICLE	IF	CITATIONS
60	The Southern Ocean: an extreme environment or just home of unique ecosystems?. , 2020, , 218-233.		1
61	Metabolic and taxonomic diversity in antarctic subglacial environments. , 2020, , 279-296.		2
62	Analytical astrobiology: the search for life signatures and the remote detection of biomarkers through their Raman spectral interrogation. , 2020, , 301-318.		1
63	Adaptation/acclimatisation mechanisms of oxyphototrophic microorganisms and their relevance to astrobiology. , 2020, , 319-342.		0
64	Life at the extremes. , 2020, , 343-354.		0
65	Microorganisms in cryoturbated organic matter of Arctic permafrost soils. , 2020, , 234-250.		0
68	Background insect herbivory increases with local elevation but makes minor contribution to element cycling along natural gradients in the Subarctic. Ecology and Evolution, 2020, 10, 11684-11698.	1.9	5
69	Development of new metrics to assess and quantify climatic drivers of extreme event driven Arctic browning. Remote Sensing of Environment, 2020, 243, 111749.	11.0	11
70	The role of atmospheric circulation patterns in driving recent changes in indices of extreme seasonal precipitation across Arctic Fennoscandia. Climatic Change, 2020, 162, 741-759.	3.6	10
71	Spatio-temporal variations and uncertainty in land surface modelling for high latitudes: univariate response analysis. Biogeosciences, 2020, 17, 1821-1844.	3.3	3
72	Recent trends and remaining challenges for optical remote sensing of Arctic tundra vegetation: A review and outlook. Remote Sensing of Environment, 2020, 246, 111872.	11.0	82
73	Focus on recent, present and future Arctic and boreal productivity and biomass changes. Environmental Research Letters, 2020, 15, 080201.	5.2	9
74	Monitoring Winter Stress Vulnerability of High-Latitude Understory Vegetation Using Intraspecific Trait Variability and Remote Sensing Approaches. Sensors, 2020, 20, 2102.	3.8	4
75	Rhizosphere allocation by canopy-forming species dominates soil CO ₂ efflux in a subarctic landscape. New Phytologist, 2020, 227, 1818-1830.	7.3	16
76	Effects of Temperature and Water Availability on Northern European Boreal Forests. Frontiers in Forests and Global Change, 2020, 3, .	2.3	33
77	The missing pieces for better future predictions in subarctic ecosystems: A TornetrÅsk case study. Ambio, 2021, 50, 375-392.	5.5	6
78	Is Alaska's Yukon-Kuskokwim Delta Greening or Browning? Resolving Mixed Signals of Tundra Vegetation Dynamics and Drivers in the Maritime Arctic. Earth Interactions, 2021, 25, 76-93.	1.5	7
79	The need to understand the stability of arctic vegetation during rapid climate change: An assessment of imbalance in the literature. Ambio, 2022, 51, 1034-1044.	5.5	9

#	ARTICLE	IF	CITATIONS
80	Springtime grazing by Arctic-breeding geese reduces first- and second-harvest yields on sub-Arctic agricultural grasslands. <i>Science of the Total Environment</i> , 2021, 793, 148619.	8.0	11
81	Influence of atmospheric patterns and North Atlantic Oscillation (NAO) on vegetation dynamics in Iceland using Remote Sensing. <i>European Journal of Remote Sensing</i> , 2021, 54, 351-363.	3.5	12
82	Complexity revealed in the greening of the Arctic. <i>Nature Climate Change</i> , 2020, 10, 106-117.	18.8	447
83	Extreme event impacts on CO ₂ fluxes across a range of high latitude, shrub-dominated ecosystems. <i>Environmental Research Letters</i> , 2020, 15, 104084.	5.2	7
85	High resistance to climatic variability in a dominant tundra shrub species. <i>PeerJ</i> , 2019, 7, e6967.	2.0	7
86	Future forest distribution on Finnmarksvidda, North Norway. <i>Climate Research</i> , 2017, 73, 125-133.	1.1	4
87	Tundren und polare Wasten. , 2019, , 43-116.		0
88	Moving up and over: redistribution of plants in alpine, Arctic, and Antarctic ecosystems under global change. <i>Arctic, Antarctic, and Alpine Research</i> , 2020, 52, 651-665.	1.1	19
89	Post-1980s shift in the sensitivity of tundra vegetation to climate revealed by the first dendrochronological record from Bear Island (Bjrnya), western Barents Sea. <i>Environmental Research Letters</i> , 2021, 16, 014031.	5.2	8
90	Siberian 2020 heatwave increased spring CO ₂ uptake but not annual CO ₂ uptake. <i>Environmental Research Letters</i> , 2021, 16, 124030.	5.2	7
92	Tundra vegetation change and impacts on permafrost. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 68-84.	29.7	87
93	Arctic greening and browning: Challenges and a cascade of complexities. <i>Global Change Biology</i> , 2022, 28, 3481-3483.	9.5	8
96	A Synthetic Aperture Radar Based Method for Long Term Monitoring of Seasonal Snowmelt and Wintertime Rain-On-Snow Events in Svalbard. <i>Frontiers in Earth Science</i> , 0, 10, .	1.8	6
97	Remote sensing from unoccupied aerial systems: Opportunities to enhance Arctic plant ecology in a changing climate. <i>Journal of Ecology</i> , 2022, 110, 2812-2835.	4.0	3
98	Resistance of subarctic soil fungal and invertebrate communities to disruption of below-ground carbon supply. <i>Journal of Ecology</i> , 2022, 110, 2883-2897.	4.0	4
99	Disturbances in North American boreal forest and Arctic tundra: impacts, interactions, and responses. <i>Environmental Research Letters</i> , 2022, 17, 113001.	5.2	12
102	Soil moisture, stressed vegetation and the spatial structure of soil erosion in a high latitude rangeland. <i>European Journal of Soil Science</i> , 2023, 74, .	3.9	1
104	Nitrogen immobilization could link extreme winter warming events to Arctic browning. <i>Soil Biology and Biochemistry</i> , 2024, 191, 109319.	8.8	0

#	ARTICLE	IF	CITATIONS
105	Linking drought indices to atmospheric circulation in Svalbard, in the Atlantic sector of the High Arctic. Scientific Reports, 2024, 14, .	3.3	0
106	Does long-term grazing cause cascading impacts on the soil microbiome in mountain birch forests?. Fungal Ecology, 2024, 69, 101332.	1.6	0
107	An analysis of winter rain-on-snow climatology in Svalbard. Frontiers in Earth Science, 0, 12, .	1.8	0
108	Comparative evaluation of vegetation greenness trends over circumpolar Arctic tundra using multi-sensors satellite datasets. International Journal of Digital Earth, 2024, 17, .	3.9	0