Stephen E L Howell

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Snow Depth on Sea Ice and on Land in the Canadian Arctic from Long-Term Observations. Atmosphere - Ocean, 2023, 61, 217-233.	0.6	4
2	Representation of sea ice regimes in the Western Ross Sea, Antarctica, based on satellite imagery and AMPS wind data. Climate Dynamics, 2023, 60, 227-238.	1.7	1
3	Generating large-scale sea ice motion from Sentinel-1 and the RADARSAT Constellation Mission using the Environment and Climate Change Canada automated sea ice tracking system. Cryosphere, 2022, 16, 1125-1139.	1.5	7
4	A New Structure for the Sea Ice Essential Climate Variables of the Global Climate Observing System. Bulletin of the American Meteorological Society, 2022, 103, E1502-E1521.	1.7	10
5	Increasing Multiyear Sea Ice Loss in the Beaufort Sea: A New Export Pathway for the Diminishing Multiyear Ice Cover of the Arctic Ocean. Geophysical Research Letters, 2022, 49, .	1.5	10
6	C- and L-band SAR signatures of Arctic sea ice during freeze-up. Remote Sensing of Environment, 2022, 279, 113129.	4.6	4
7	Headline Indicators for Global Climate Monitoring. Bulletin of the American Meteorological Society, 2021, 102, E20-E37.	1.7	27
8	Impact of 1, 2 and 4 °C of global warming on ship navigation in the Canadian Arctic. Nature Climate Change, 2021, 11, 673-679.	8.1	61
9	First Observations of a Transient Polynya in the Last Ice Area North of Ellesmere Island. Geophysical Research Letters, 2021, 48, e2021GL095099.	1.5	8
10	Anomalous collapses of Nares Strait ice arches leads to enhanced export of Arctic sea ice. Nature Communications, 2021, 12, 1.	5.8	8,040
11	Year-Around C- and L- Band Observation Around the Mosaic Ice Floe with High Spatial and Temporal Resolution. , 2021, , .		0
12	Seasonal evolution of L-band SAR backscatter over landfast Arctic sea ice. Remote Sensing of Environment, 2020, 251, 112049.	4.6	11
13	Long-Term Analysis of Sea Ice Drift in the Western Ross Sea, Antarctica, at High and Low Spatial Resolution. Remote Sensing, 2020, 12, 1402.	1.8	11
14	Constraining Reanalysis Snowfall Over the Arctic Ocean Using CloudSat Observations. Geophysical Research Letters, 2020, 47, e2019GL086426.	1.5	13
15	Local-scale variability of snow density on Arctic sea ice. Cryosphere, 2020, 14, 4323-4339.	1.5	28
16	Spring melt pond fraction in the Canadian Arctic Archipelago predicted from RADARSAT-2. Cryosphere, 2020, 14, 4675-4686.	1.5	4
17	Estimation of Level and Deformed First-Year Sea Ice Surface Roughness in the Canadian Arctic Archipelago from C- and L-Band Synthetic Aperture Radar. Canadian Journal of Remote Sensing, 2019, 45, 457-475.	1.1	13
18	Estimating melt onset over Arctic sea ice from time series multi-sensor Sentinel-1 and RADARSAT-2 backscatter. Remote Sensing of Environment, 2019, 229, 48-59.	4.6	18

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19	Snow Thickness Estimation on First-Year Sea Ice from Late Winter Spaceborne Scatterometer Backscatter Variance. Remote Sensing, 2019, 11, 417.	1.8	12
20	Sensitivity of Ice Drift to Form Drag and Ice Strength Parameterization in a Coupled Ice–Ocean Model. Atmosphere - Ocean, 2019, 57, 329-349.	0.6	9
21	The Dynamic Response of Sea Ice to Warming in the Canadian Arctic Archipelago. Geophysical Research Letters, 2019, 46, 13119-13125.	1.5	19
22	Comparing L- and C-band synthetic aperture radar estimates of sea ice motion over different ice regimes. Remote Sensing of Environment, 2018, 204, 380-391.	4.6	29
23	What historical landfast ice observations tell us about projected ice conditions in Arctic archipelagoes and marginal seas under anthropogenic forcing. Cryosphere, 2018, 12, 3577-3588.	1.5	7
24	Assessment of the High Resolution SAR Mode of the RADARSAT Constellation Mission for First Year Ice and Multiyear Ice Characterization. Remote Sensing, 2018, 10, 594.	1.8	36
25	Optimal Compact Polarimetric Parameters and Texture Features for Discriminating Sea Ice Types during Winter and Advanced Melt. Canadian Journal of Remote Sensing, 2018, 44, 390-411.	1.1	9
26	Evaluating RADARSAT-2 for the Monitoring of Lake Ice Phenology Events in Mid-Latitudes. Remote Sensing, 2018, 10, 1641.	1.8	14
27	Semi-Automated Classification of Lake Ice Cover Using Dual Polarization RADARSAT-2 Imagery. Remote Sensing, 2018, 10, 1727.	1.8	18
28	Estimating lake ice thickness in Central Ontario. PLoS ONE, 2018, 13, e0208519.	1.1	17
29	Canadian snow and sea ice: assessment of snow, sea ice, and related climate processes in Canada's Earth system model and climate-prediction system. Cryosphere, 2018, 12, 1137-1156.	1.5	27
30	Canadian snow and sea ice: historical trends and projections. Cryosphere, 2018, 12, 1157-1176.	1.5	95
31	Incidence Angle Dependence of HH-Polarized C- and L-Band Wintertime Backscatter Over Arctic Sea Ice. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6686-6698.	2.7	43
32	Linking Regional Winter Sea Ice Thickness and Surface Roughness to Spring Melt Pond Fraction on Landfast Arctic Sea Ice. Remote Sensing, 2018, 10, 37.	1.8	6
33	Temporal and Spatial Patterns of Ship Traffic in the Canadian Arctic from 1990 to 2015 + Supplementary Appendix 1: Figs. S1–S7 (See Article Tools). Arctic, 2018, 71, .	0.2	124
34	Navigating pressured ice: Risks and hazards for winter resource-based shipping in the Canadian Arctic. Ocean and Coastal Management, 2017, 137, 57-67.	2.0	19
35	Effect of Snow Salinity on CryoSatâ€2 Arctic Firstâ€Year Sea Ice Freeboard Measurements. Geophysical Research Letters, 2017, 44, 10,419.	1.5	63
36	Winter Sentinelâ€I Backscatter as a Predictor of Spring Arctic Sea Ice Melt Pond Fraction. Geophysical Research Letters, 2017, 44, 12,262.	1.5	17

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37	Improving Sea Ice Characterization in Dry Ice Winter Conditions Using Polarimetric Parameters from C- and L-Band SAR Data. Remote Sensing, 2017, 9, 1270.	1.8	25
38	Intercomparison of snow depth retrievals over Arctic sea ice from radar data acquired by Operation IceBridge. Cryosphere, 2017, 11, 2571-2593.	1.5	48
39	Landfast ice thickness in the Canadian Arctic Archipelago from observations and models. Cryosphere, 2016, 10, 1463-1475.	1.5	38
40	Recent changes in sea ice area flux through the Beaufort Sea during the summer. Journal of Geophysical Research: Oceans, 2016, 121, 2659-2672.	1.0	22
41	The influence of declining sea ice on shipping activity in the Canadian Arctic. Geophysical Research Letters, 2016, 43, 12,146.	1.5	108
42	Regional variability of a projected sea iceâ€free Arctic during the summer months. Geophysical Research Letters, 2016, 43, 256-263.	1.5	66
43	Detection of melt onset over the northern Canadian Arctic Archipelago sea ice from RADARSAT, 1997–2014. Remote Sensing of Environment, 2016, 178, 59-69.	4.6	33
44	Separability of sea ice types from wide swath C- and L-band synthetic aperture radar imagery acquired during the melt season. Remote Sensing of Environment, 2016, 174, 314-328.	4.6	57
45	Using RADARSAT to Identify Sea Ice Ridges and their Implications for Shipping in Canada's Hudson Strait. Arctic, 2016, 69, 421.	0.2	6
46	Ice thickness in the Northwest Passage. Geophysical Research Letters, 2015, 42, 7673-7680.	1.5	72
47	Evaluation of Operation IceBridge quickâ€look snow depth estimates on sea ice. Geophysical Research Letters, 2015, 42, 9302-9310.	1.5	30
48	Multiyear ice replenishment in the <scp>C</scp> anadian <scp>A</scp> rctic <scp>A</scp> rchipelago: 1997–2013. Journal of Geophysical Research: Oceans, 2015, 120, 1623-1637.	1.0	15
49	Changing sea ice conditions and marine transportation activity in Canadian Arctic waters between 1990 and 2012. Climatic Change, 2014, 123, 161-173.	1.7	123
50	Extending the QuikSCAT record of seasonal melt–freeze transitions over Arctic sea ice using ASCAT. Remote Sensing of Environment, 2014, 141, 214-230.	4.6	50
51	Sea-Ice Motion and Flux within the Prince Gustaf Adolf Sea, Queen Elizabeth Islands, Canada during 2010. Atmosphere - Ocean, 2013, 51, 1-17.	0.6	18
52	Recent changes in the exchange of sea ice between the Arctic Ocean and the Canadian Arctic Archipelago. Journal of Geophysical Research: Oceans, 2013, 118, 3595-3607.	1.0	69
53	Recent extreme light sea ice years in the Canadian Arctic Archipelago: 2011 and 2012 eclipse 1998 and 2007. Cryosphere, 2013, 7, 1753-1768.	1.5	14
54	Variability and change in the Canadian cryosphere. Climatic Change, 2012, 115, 59-88.	1.7	79

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#	Article	IF	CITATIONS
55	Landfast Sea Ice Conditions in the Canadian Arctic: 1983 – 2009. Arctic, 2012, 65, .	0.2	43
56	Trends and variability in summer sea ice cover in the Canadian Arctic based on the Canadian Ice Service Digital Archive, 1960–2008 and 1968–2008. Journal of Geophysical Research, 2011, 116, .	3.3	116
57	Correction to "Trends and variability in summer sea ice cover in the Canadian Arctic based on the Canadian Ice Service Digital Archive, 1960–2008 and 1968–2008― Journal of Geophysical Research, 2011, 116, .	3.3	7
58	Origins and Levels of Seasonal Forecast Skill for Sea Ice in Hudson Bay Using Canonical Correlation Analysis. Journal of Climate, 2011, 24, 1378-1395.	1.2	22
59	Extreme low sea ice years in the Canadian Arctic Archipelago: 1998 versus 2007. Journal of Geophysical Research, 2010, 115, .	3.3	15
60	Variability in ice phenology on Great Bear Lake and Great Slave Lake, Northwest Territories, Canada, from SeaWinds/QuikSCAT: 2000–2006. Remote Sensing of Environment, 2009, 113, 816-834.	4.6	78
61	Fusing AMSR-E and QuikSCAT Imagery for Improved Sea Ice Recognition. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1980-1989.	2.7	29
62	Sea ice conditions and melt season duration variability within the Canadian Arctic Archipelago: 1979–2008. Geophysical Research Letters, 2009, 36, .	1.5	95
63	Changing sea ice melt parameters in the Canadian Arctic Archipelago: Implications for the future presence of multiyear ice. Journal of Geophysical Research, 2008, 113, .	3.3	38
64	Multiâ€year seaâ€ice conditions in the western Canadian arctic archipelago region of the northwest passage: 1968–2006. Atmosphere - Ocean, 2008, 46, 229-242.	0.6	38
65	Long-Range Prediction of the Shipping Season in Hudson Bay: A Statistical Approach. Weather and Forecasting, 2007, 22, 1063-1075.	0.5	19
66	Surface-Based Polarimetric C-Band Scatterometer for Field Measurements of Sea Ice. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 3405-3416.	2.7	62
67	Application of a SeaWinds/QuikSCAT sea ice melt algorithm for assessing melt dynamics in the Canadian Arctic Archipelago. Journal of Geophysical Research, 2006, 111, .	3.3	48
68	The use of operational ice charts for evaluating passive microwave ice concentration data. Atmosphere - Ocean, 2003, 41, 317-331.	0.6	105
69	Sea Ice Dynamics in Hudson Strait and its Impact on Winter Shipping Operations Journal of Geophysical Research: Oceans, 0, , .	1.0	2