## Ian A Renfrew

List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Binary interactions between polar lows. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 49, 577.  | 1.7  | 16        |
| 2  | The surface climatology of an ordinary katabatic wind regime in Coats Land, Antarctica. Tellus, Series<br>A: Dynamic Meteorology and Oceanography, 2022, 54, 463.   | 1.7  | 15        |
| 3  | Greenland plateau jets. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 65, 17468.  | 1.7  | 10        |
| 4  | Sea-ice retreat suggests re-organization of water mass transformation in the Nordic and Barents Seas. Nature Communications, 2022, 13, 67.  | 12.8 | 19        |
| 5  | The Annual Salinity Cycle of the Denmark Strait Overflow. Journal of Geophysical Research: Oceans, 2022, 127, .   | 2.6  | 1         |
| 6  | Ship-based estimates of momentum transfer coefficient over sea ice and recommendations for its parameterization. Atmospheric Chemistry and Physics, 2022, 22, 4763-4778.  | 4.9  | 7         |
| 7  | A 20‥ear Study of Melt Processes Over Larsen C Ice Shelf Using a Highâ€Resolution Regional<br>Atmospheric Model: 1. Model Configuration and Validation. Journal of Geophysical Research D:<br>Atmospheres, 2022, 127, .                 | 3.3  | 2         |
| 8  | A 20â€Year Study of Melt Processes Over Larsen C Ice Shelf Using a Highâ€Resolution Regional<br>Atmospheric Model: 2. Drivers of Surface Melting. Journal of Geophysical Research D: Atmospheres,<br>2022, 127, .                       | 3.3  | 1         |
| 9  | An evaluation of surface meteorology and fluxes over the Iceland and Greenland Seas in<br><scp>ERA5</scp> reanalysis: The impact of sea ice distribution. Quarterly Journal of the Royal<br>Meteorological Society, 2021, 147, 691-712. | 2.7  | 43        |
| 10 | Subâ€km scale numerical weather prediction model simulations of radiation fog. Quarterly Journal of<br>the Royal Meteorological Society, 2021, 147, 746-763.  | 2.7  | 19        |
| 11 | The Response of the Nordic Seas to Wintertime Sea Ice Retreat. Journal of Climate, 2021, 34, 6041-6056.   | 3.2  | 5         |
| 12 | Surface Heat and Moisture Exchange in the Marginal Ice Zone: Observations and a New<br>Parameterization Scheme for Weather and Climate Models. Journal of Geophysical Research D:<br>Atmospheres, 2021, 126, e2021JD034827.             | 3.3  | 13        |
| 13 | Characteristics of Cold Air Outbreak events and associated Polar Mesoscale Cyclogenesis over the North Atlantic region. Journal of Climate, 2021, , 1-52.   | 3.2  | 10        |
| 14 | The impact of wintertime sea-ice anomalies on high surface heat flux events in the Iceland and Greenland Seas. Climate Dynamics, 2020, 54, 1937-1952.   | 3.8  | 7         |
| 15 | Atmospheric Drivers of Melt on Larsen C Ice Shelf: Surface Energy Budget Regimes and the Impact of<br>Foehn. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032463.  | 3.3  | 39        |
| 16 | Summertime cloud phase strongly influences surface melting on the Larsen C ice shelf, Antarctica.<br>Quarterly Journal of the Royal Meteorological Society, 2020, 146, 1575-1589.   | 2.7  | 23        |
| 17 | Atmospheric sensitivity to marginalâ€iceâ€zone drag: Local and global responses. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 1165-1179.   | 2.7  | 22        |
| 18 | The Iceland Greenland Seas Project. Bulletin of the American Meteorological Society, 2019, 100, 1795-1817.  | 3.3  | 21        |

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|----|--|-----|-----------|
| 19 | The Impact of Highâ€Frequency Weather Systems on <scp>SST</scp> and Surface Mixed Layer in the<br>Central Arabian Sea. Journal of Geophysical Research: Oceans, 2018, 123, 1091-1104.          | 2.6 | 10        |
| 20 | Meteorological Controls on Local and Regional Volcanic Ash Dispersal. Scientific Reports, 2018, 8, 6873.   | 3.3 | 23        |
| 21 | Numerical modelling of the evolution of the boundary layer during a radiation fog event. Weather, 2018, 73, 310-316.   | 0.7 | 14        |
| 22 | Current Challenges in Orographic Flow Dynamics: Turbulent Exchange Due to Low-Level Gravity-Wave<br>Processes. Atmosphere, 2018, 9, 361.   | 2.3 | 21        |
| 23 | Modification of Polar Low Development by Orography and Sea Ice. Monthly Weather Review, 2018, 146, 3325-3341.  | 1.4 | 11        |
| 24 | Southern Ocean mesocyclones and polar lows from manually tracked satellite mosaics. Geophysical Research Letters, 2017, 44, 7985-7993.   | 4.0 | 18        |
| 25 | Orographic effects on the transport and deposition of volcanic ash: A case study of Mount<br>Sakurajima, Japan. Journal of Geophysical Research D: Atmospheres, 2017, 122, 9332-9350.          | 3.3 | 29        |
| 26 | The Impact of Föhn Winds on Surface Energy Balance During the 2010–2011 Melt Season Over Larsen C<br>Ice Shelf, Antarctica. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,062. | 3.3 | 39        |
| 27 | Structure of a shearâ€ <b>i</b> ine polar low. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 12-26.  | 2.7 | 23        |
| 28 | Between the Devil and the Deep Blue Sea: The Role of the Amundsen Sea Continental Shelf in Exchanges<br>Between Ocean and Ice Shelves. , 2016, 29, 118-129.                                    |     | 36        |
| 29 | Paving the Way for the Year of Polar Prediction. Bulletin of the American Meteorological Society, 2016, 97, ES85-ES88.   | 3.3 | 20        |
| 30 | Arctic System Reanalysis improvements in topographically forced winds near Greenland. Quarterly<br>Journal of the Royal Meteorological Society, 2016, 142, 2033-2045.                          | 2.7 | 32        |
| 31 | Advancing Polar Prediction Capabilities on Daily to Seasonal Time Scales. Bulletin of the American<br>Meteorological Society, 2016, 97, 1631-1647.   | 3.3 | 199       |
| 32 | Evaluation of four global reanalysis products using in situ observations in the Amundsen Sea<br>Embayment, Antarctica. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6240-6257.   | 3.3 | 70        |
| 33 | High-Latitude Dynamics of Atmosphere–Ice–Ocean Interactions. Bulletin of the American<br>Meteorological Society, 2016, 97, ES179-ES182.  | 3.3 | 7         |
| 34 | Foehn warming distributions in nonlinear and linear flow regimes: a focus on the Antarctic<br>Peninsula. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 618-631.            | 2.7 | 63        |
| 35 | Observations of surface momentum exchange over the marginal ice zone and recommendations for its parametrisation. Atmospheric Chemistry and Physics, 2016, 16, 1545-1563.                      | 4.9 | 36        |
| 36 | Observed microphysical changes in Arctic mixed-phase clouds when transitioning from sea ice to open ocean. Atmospheric Chemistry and Physics, 2016, 16, 13945-13967.                           | 4.9 | 31        |

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|----|---|------|-----------|
| 37 | The Causes of Foehn Warming in the Lee of Mountains. Bulletin of the American Meteorological<br>Society, 2016, 97, 455-466.   | 3.3  | 104       |
| 38 | Thermally Induced Convective Circulation and Precipitation over an Isolated Volcano. Journals of the Atmospheric Sciences, 2016, 73, 1667-1686.   | 1.7  | 10        |
| 39 | Foehn jets over the Larsen C Ice Shelf, Antarctica. Quarterly Journal of the Royal Meteorological<br>Society, 2015, 141, 698-713.   | 2.7  | 81        |
| 40 | The impact of resolution on the representation of southeast Greenland barrier winds and katabatic flows. Geophysical Research Letters, 2015, 42, 3011-3018.   | 4.0  | 35        |
| 41 | Meteorological buoy observations from the central Iceland Sea. Journal of Geophysical Research D:<br>Atmospheres, 2015, 120, 3199-3208.   | 3.3  | 30        |
| 42 | Aircraftâ€based observations of air–sea turbulent fluxes around the British Isles. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 139-152.   | 2.7  | 22        |
| 43 | Decreasing intensity of open-ocean convection in the Greenland and Iceland seas. Nature Climate Change, 2015, 5, 877-882.   | 18.8 | 63        |
| 44 | Cloud Banding and Winds in Intense European Cyclones: Results from the DIAMET Project. Bulletin of the American Meteorological Society, 2015, 96, 249-265.  | 3.3  | 32        |
| 45 | Offshore Transport of Dense Water from the East Greenland Shelf. Journal of Physical<br>Oceanography, 2014, 44, 229-245.  | 1.7  | 23        |
| 46 | What causes the location of the airâ€sea turbulent heat flux maximum over the Labrador Sea?.<br>Geophysical Research Letters, 2014, 41, 3628-3635.  | 4.0  | 16        |
| 47 | Advances in understanding and parameterization of small-scale physical processes in the marine Arctic climate system: a review. Atmospheric Chemistry and Physics, 2014, 14, 9403-9450.   | 4.9  | 145       |
| 48 | Corrigendum to "Advances in understanding and parameterization of small-scale physical<br>processes in the marine Arctic climate system: a review" published in Atmos. Chem. Phys., 14,<br>9403–9450, 2014. Atmospheric Chemistry and Physics, 2014, 14, 9923-9923. | 4.9  | 0         |
| 49 | The impact of polar mesoscale storms on northeast Atlantic Ocean circulation. Nature Geoscience, 2013, 6, 34-37.  | 12.9 | 85        |
| 50 | Multidecadal Mobility of the North Atlantic Oscillation. Journal of Climate, 2013, 26, 2453-2466.   | 3.2  | 120       |
| 51 | High-Latitude Ocean and Sea Ice Surface Fluxes: Challenges for Climate Research. Bulletin of the<br>American Meteorological Society, 2013, 94, 403-423.   | 3.3  | 137       |
| 52 | On the spatial distribution of high winds off southeast Greenland. Geophysical Research Letters, 2012, 39, .  | 4.0  | 27        |
| 53 | Spatial distribution of airâ€sea heat fluxes over the subâ€polar North Atlantic Ocean. Geophysical<br>Research Letters, 2012, 39, .   | 4.0  | 29        |
| 54 | Cold European winters: interplay between the NAO and the East Atlantic mode. Atmospheric Science<br>Letters, 2012, 13, 1-8.   | 1.9  | 94        |

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|----|--|-----|-----------|
| 55 | Seasonal evolution of the upper-ocean adjacent to the South Orkney Islands, Southern Ocean: Results<br>from a "lazy biological mooringâ€: Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58,<br>1569-1579.            | 1.4 | 34        |
| 56 | Complexities in the climate of the subpolar North Atlantic: a case study from the winter of 2007.<br>Quarterly Journal of the Royal Meteorological Society, 2011, 137, 757-767.  | 2.7 | 34        |
| 57 | Forecast Impact of Targeted Observations: Sensitivity to Observation Error and Proximity to Steep<br>Orography. Monthly Weather Review, 2011, 139, 69-78.  | 1.4 | 11        |
| 58 | A Climatology of Wintertime Barrier Winds off Southeast Greenland. Journal of Climate, 2011, 24, 4701-4717.  | 3.2 | 81        |
| 59 | A parameterization of Greenland's tip jets suitable for ocean or coupled climate models. Journal of<br>Geophysical Research, 2010, 115, .  | 3.3 | 8         |
| 60 | Changes in the freshwater composition of the upper ocean west of the Antarctic Peninsula during the first decade of the 21st century. Progress in Oceanography, 2010, 87, 127-143.   | 3.2 | 60        |
| 61 | Convective heat transfer over thin ice covered coastal polynyas. Journal of Geophysical Research, 2010, 115, .   | 3.3 | 29        |
| 62 | Seasonal Evolution of Aleutian Low Pressure Systems: Implications for the North Pacific Subpolar<br>Circulation*. Journal of Physical Oceanography, 2009, 39, 1317-1339.   | 1.7 | 59        |
| 63 | Aircraftâ€based observations of air–sea fluxes over Denmark Strait and the Irminger Sea during high<br>wind speed conditions. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 2030-2045.                               | 2.7 | 87        |
| 64 | A comparison of aircraftâ€based surfaceâ€layer observations over Denmark Strait and the Irminger Sea<br>with meteorological analyses and QuikSCAT winds. Quarterly Journal of the Royal Meteorological<br>Society, 2009, 135, 2046-2066. | 2.7 | 72        |
| 65 | An overview of barrier winds off southeastern Greenland during the Greenland Flow Distortion experiment. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 1950-1967.  | 2.7 | 48        |
| 66 | The impact of targeted observations made during the Greenland Flow Distortion Experiment.<br>Quarterly Journal of the Royal Meteorological Society, 2009, 135, 2012-2029.  | 2.7 | 10        |
| 67 | On the impact of highâ€resolution, highâ€requency meteorological forcing on Denmark Strait ocean circulation. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 2067-2085.   | 2.7 | 32        |
| 68 | An easterly tip jet off Cape Farewell, Greenland. I: Aircraft observations. Quarterly Journal of the<br>Royal Meteorological Society, 2009, 135, 1919-1933.  | 2.7 | 36        |
| 69 | An easterly tip jet off Cape Farewell, Greenland. II: Simulations and dynamics. Quarterly Journal of the<br>Royal Meteorological Society, 2009, 135, 1934-1949.  | 2.7 | 36        |
| 70 | The Greenland Flow Distortion experiment. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 1917-1918.   | 2.7 | 1         |
| 71 | Atmospheric conditions associated with oceanic convection in the southâ€east Labrador Sea.<br>Geophysical Research Letters, 2008, 35, .  | 4.0 | 27        |
| 72 | Modeling the impact of polar mesocyclones on ocean circulation. Journal of Geophysical Research, 2008, 113   | 3.3 | 38        |

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|----|--|-----|-----------|
| 73 | Variability in the freshwater balance of northern Marguerite Bay, Antarctic Peninsula: Results from<br>δ180. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 309-322.  | 1.4 | 100       |
| 74 | Buoy observations from the windiest location in the world ocean, Cape Farewell, Greenland.<br>Geophysical Research Letters, 2008, 35, .  | 4.0 | 44        |
| 75 | THE GREENLAND FLOW DISTORTION EXPERIMENT. Bulletin of the American Meteorological Society, 2008, 89, 1307-1324.  | 3.3 | 75        |
| 76 | Convection in the Western North Atlantic Sub-Polar Gyre: Do Small-Scale Wind Events Matter?. , 2008, , 629-652.  |     | 10        |
| 77 | Polar Mesoscale Cyclones in the Northeast Atlantic: Comparing Climatologies from ERA-40 and Satellite Imagery. Monthly Weather Review, 2006, 134, 1518-1533.                                 | 1.4 | 72        |
| 78 | Profiles of katabatic flow in summer and winter over Coats Land, Antarctica. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 779-802.                                      | 2.7 | 44        |
| 79 | The Effect of the Sea-ice Zone on the Development of Boundary-layer Roll Clouds During Cold Air<br>Outbreaks. Boundary-Layer Meteorology, 2006, 118, 557-581.                                | 2.3 | 45        |
| 80 | Tip Jets and Barrier Winds: A QuikSCAT Climatology of High Wind Speed Events around Greenland.<br>Journal of Climate, 2005, 18, 3713-3725.   | 3.2 | 169       |
| 81 | Numerical simulations of katabatic jumps in coats land, Antartica. Boundary-Layer Meteorology, 2005, 114, 413-437.   | 2.3 | 15        |
| 82 | An Autonomous Doppler Sodar Wind Profiling System. Journal of Atmospheric and Oceanic<br>Technology, 2005, 22, 1309-1325.  | 1.3 | 24        |
| 83 | SEAFLUX. Bulletin of the American Meteorological Society, 2004, 85, 409-424.   | 3.3 | 120       |
| 84 | The dynamics of idealized katabatic flow over a moderate slope and ice shelf. Quarterly Journal of the<br>Royal Meteorological Society, 2004, 130, 1023-1045.                                | 2.7 | 65        |
| 85 | A high-resolution simulation of convective roll clouds during a cold-air outbreak. Geophysical<br>Research Letters, 2004, 31, .  | 4.0 | 54        |
| 86 | Impact of the 1997/98 ENSO on upper ocean characteristics in Marguerite Bay, western Antarctic<br>Peninsula. Journal of Geophysical Research, 2004, 109, .                                   | 3.3 | 60        |
| 87 | The Labrador Sea Deep Convection Experiment data collection. Geochemistry, Geophysics, Geosystems, 2003, 4, .  | 2.5 | 6         |
| 88 | Observational studies. , 2003, , 150-285.  |     | 4         |
| 89 | A Comparison of Surface Layer and Surface Turbulent Flux Observations over the Labrador Sea with<br>ECMWF Analyses and NCEP Reanalyses. Journal of Physical Oceanography, 2002, 32, 383-400. | 1.7 | 192       |
| 90 | A Reconstruction of the Air–Sea Interaction Associated with the Weddell Polynya. Journal of Physical<br>Oceanography, 2002, 32, 1685-1698.   | 1.7 | 43        |

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| 91  | An Assessment of the Surface Turbulent Heat Fluxes from the NCEP–NCAR Reanalysis over the Western<br>Boundary Currents. Journal of Climate, 2002, 15, 2020-2037.                            | 3.2 | 70        |
| 92  | Coastal polynyas in the southern Weddell Sea: Variability of the surface energy budget. Journal of<br>Geophysical Research, 2002, 107, 16-1.  | 3.3 | 84        |
| 93  | Weather image. Weather, 2002, 57, 468-468.  | 0.7 | Ο         |
| 94  | The surface climatology of an ordinary katabatic wind regime in Coats Land, Antarctica. Tellus, Series<br>A: Dynamic Meteorology and Oceanography, 2002, 54, 463-484.                       | 1.7 | 21        |
| 95  | A Simple Model Of The Convective Internal Boundary Layer And Its Application To Surface Heat Flux<br>Estimates Within Polynyas. Boundary-Layer Meteorology, 2000, 94, 335-356.              | 2.3 | 28        |
| 96  | An Extreme Cold-Air Outbreak over the Labrador Sea: Roll Vortices and Air–Sea Interaction. Monthly<br>Weather Review, 1999, 127, 2379-2394.   | 1.4 | 99        |
| 97  | Mesoscale Forecasting during a Field Program: Meteorological Support of the Labrador Sea Deep<br>Convection Experiment. Bulletin of the American Meteorological Society, 1999, 80, 605-620. | 3.3 | 35        |
| 98  | The Labrador Sea Deep Convection Experiment. Bulletin of the American Meteorological Society, 1998,<br>79, 2033-2058.   | 3.3 | 202       |
| 99  | Binary interactions between polar lows. Tellus, Series A: Dynamic Meteorology and Oceanography, 1997, 49, 577-594.  | 1.7 | 5         |
| 100 | A Ship-Based Characterization of Coherent Boundary-Layer Structures Over the Lifecycle of a Marine<br>Cold-Air Outbreak. Boundary-Layer Meteorology, 0, , 1.                                | 2.3 | 1         |