

IAN M. BROOKS

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EMPLOYMENT

- 2014–Present: University of Leeds, Leeds, UK
Professor of Boundary Layer Processes
- 2010–2014: University of Leeds, Leeds, UK
Senior Lecturer in Atmospheric Science
- 2008–2010: University of Leeds, Leeds, UK
Lecturer in Atmospheric Science
- 2002–2008: University of Leeds, Leeds, UK
University Research Fellow
- 1998–2002: Scripps Institution of Oceanography, University of California, San Diego, USA
Assistant Project Scientist
- 1994–1998: Scripps Institution of Oceanography, University of California, San Diego, USA
Post-doctoral Research Assistant
- 1993–1994: University of Manchester Institute of Science and Technology, UK
Post-doctoral Research Assistant
- 1990–1993: University of Manchester Institute of Science and Technology, UK
Graduate Research Assistant

EDUCATION

- 1990–1993: University of Manchester Institute of Science and Technology, UK
Ph.D. in Atmospheric Physics – Laboratory Studies of Thunderstorm Electrification Processes
- 1987–1990: University of Manchester Institute of Science and Technology, UK
B.Sc. Pure and Applied Physics (Hons, 1st class)
(course prize 1988, 1989, 1990; Henry Lipson Prize for best final year research project)

AWARDS

- 2023: *Doctorate of Philosophy honoris causa* from the faculty of science, Stockholm University, for ‘outstanding contributions in one of the university’s areas of academic activity’
- 2022: Polar Medal
- 2021: AGU Editor’s citation as outstanding reviewer, Geophysical Research Letters

GRANTS FUNDED

- Bubble Exchange in the Labrador Sea – 2023
Joint grant with UCL (PI: Helen Czerski) & University of Southampton.
Collaboration with GEOMAR (Germany), and Universities of Hawaii (USA), Louisiana State (USA), Washington (USA), Victoria (Canada), and Dalhousie (Canada).
NERC, £109,997 (to Leeds), 1/8/2023–31/1/2027
- The Arctic Atmospheric Boundary-Layer Structure and Its Interactions with the Free-Troposphere and Surface, (CoI)
Collaboration with University of Colorado, Boulder, USA
US Department of Energy, ASI programme, £139,000, 1/10/2022–30/9/2025

Atmospheric Rivers and The Onset of Sea-Ice Melt (ARTofMELT)(PI)
 Collaboration with Stockholm University, and EPFL, Switzerland
 NERC, £796,500, 1/10/2022–31/3/2026

Integrated Characterization of Energy, Clouds, Atmospheric state, and Precipitation at Summit –
 Measurements along Lagrangian Transects (ICECAPS-MELT) (CoI)
 Collaboration with Washington State Univ, Univ of Colorado, Boulder, Univ of Wisconsin,
 Madison.
 NERC/NSF, £299,987, 1/2/2022–31/1/2025

O3-SML (CoI)
 Contribution to project at University of York (PI Lucy Carpenter)
 ERC, £42,750 (to Leeds), 1/1/2020 – 31/12/2021

Characterising and Interpreting Fluxes Over Sea Ice (CANDIFLOS)(PI)
 Joint project with UEA and NOC
 NERC, £392,500 (to Leeds), £755,680 (total), 1/1/2019–31/12/2021

The Integrated Characterization of Energy, Clouds, Atmospheric state, and Precipitation at
 Summit, Aerosol-Cloud Experiment (ICECAPS-ACE) (CoI)
 Collaboration with Washington State Univ, Univ of Colorado, Boulder, Univ of Wisconsin,
 Madison.
 NERC/NSF, £299,500, 1/7/2018–31/8/2020

MOSAIC Boundary Layer (PI)
 Collaboration with University of Colorado CIRES/NOAA & University of Trier
 NERC, £370,000, 01/04/2019–31/03/2022

MOCCHA Analysis of Dynamics, Cloud, and Aerosol Processes (PI)
 Collaboration with Stockholm University
 NERC, £798,525, 01/04/2018 – 31/03/2021

Tethered balloon turbulence measurements (PI).
 US Department of Energy ARM programme, £21,500, 1/6/2016 – 31/1/2017

Improved surface exchange in marginal-ice-zones for weather and climate models (CoI)
 Joint proposal with UEA to implement results from ACCACIA in MetOffice Unified Model
 NERC Knowledge Exchange grant, £13,000, 01/06/2015 – 31/08/2015

Arctic Cloud Surface Response Experiment, December 2012 (PI). A Collaboration with Stockholm
 University and University of Colorado CIRES/NOAA Earth System Research Laboratory.
 NERC, £822,000, 01/08/2013 – 31/01/2017

Turbulent Exchange: Aerosols, Bubbles And Gases, August 2012 (PI).
 Joint proposal with NOC and the University of Southampton. A contribution to a US air-sea gas
 exchange study with partners at University of Hawai'i, NOAA Earth System Research Laboratory
 (Boulder, CO), UC Irvine, University at Albany SUNY.
 NERC, £475,500 (to Leeds), £1.3M (total), 01/06/2012 – 31/07/2014

Blowing snow and sea ice surfaces as a source of polar sea salt aerosol (BLOWSEA), June 2012, (CoI).
 Joint proposal with BAS and University of Cambridge.
 NERC, £93,600, 01/12/2012 – 30/05/2015

Aerosol-Cloud Coupling And Climate Interactions in the Arctic (ACCACIA)(PI). Consortium
 proposal with: University of Manchester, University of York, UEA, British Antarctic Survey, and
 the Met Office + international partners at NOAA Earth System Research Laboratory (Boulder,
 CO), University of Oslo (Norway), and Max Planck Institute for Meteorology (Hamburg).
 NERC, £313,500 (to Leeds), £3M (total), 01/04/2012 – 31/3/2016

Arctic Summer Cloud-Ocean Study (ASCOS) Analysis, July 2010, (PI). Collaboration with University
 of Stockholm, NOAA Earth System Research Laboratory, and UK Met Office
 NERC, £388,700, 01/09/2010 – 31/08/2013

Air-Sea Interaction and Sea-spray in Typhoons (ASIST), January 2010, (PI) Collaborative project with
 Rosenstiel School of Marine and Atmospheric Science, University of Miami
 NERC, £488,500, 01/02/2010 – 30/9/2013

Waves, Aerosol and Gas Exchange Study (WAGES), Dec 2008, (PI) Joint with National Oceanography Centre, Southampton (CoIs: M. Srokosz, M. Yelland, C. Gommenginger) NERC, £539,000 (to Leeds), £1.2M (total), 01/08/2009 – 31/3/2013

Physical Exchange at the Air-Sea Interface: Synthesis and Dissemination, April 2008, (PI) NERC, £35,400, 01/09/2008 – 31/05/2010

Modelling Studies of Arctic Stratus, February 2008, (PI) NERC CASE PhD Studentship with Met Office, £74,000, 01/10/2008 – 31/3/2012

Southern Ocean Sea-spray Aerosol Flux Experiment (SO-SAFE), December 2007, (PI) Collaborative project with Rosenstiel School of Marine and Atmospheric Science, University of Miami NERC, £53,126, 01/01/2008 – 31/12/2009

Turbulent Exchange in the Arctic Boundary Layer, December 2006, (PI). Contribution to a major International Polar Year project (ASCOS) with 14 international partners. NERC, £97,600, 01/08/2007 – 31/12/2010

T-REX : Turbulence and Surface Energy Budget, February 2006, (PI) NCAS, £37,700, 01/03/2006 – 28/02/2007,

Atmosphere-canopy interaction over complex terrain, June 2005, (CoI with A. Ross (PI) & S. Mobbs) NERC, £235,500, 01/10/2005 – 30/09/2008

Field Observations of Sea Spray, Gas Fluxes and Whitecaps (SEASAW), May 2005, (PI) NERC, £217,500, 01/07/2006 – 31/12/2009

FAAM: Turbulence Probe Development, August 2003, (PI), Joint project with Met Office UMIST Ventures (NERC Subcontract), £40,000, 1/9/2003 – 31/3/2005

Initial feasibility study of the use of spray turbines to increase rain in drought-stricken regions, October 2002, (CoI, with S. Salter (Edinburgh University, PI) and S. D. Mobbs) EPSRC, £51,900, 1/3/2003 – 28/2/2004

Entrainment Processes at the top of the stable marine atmospheric boundary layer, March 2001, (PI) US National Science Foundation, \$69,900

Turbulence Processes in the Stable Marine Atmospheric Boundary Layer, Nov 2000, (PI) US Office of Naval Research, \$118,500

PROFESSIONAL AFFILIATIONS & ACTIVITIES

SERVICE

Grant proposal reviewer for: UK Natural Environment Research Council (NERC), The Leverhulme Trust, US National Science Foundation (NSF), US National Oceanographic and Atmospheric Administration (NOAA), Deutsche Forschungsgemeinschaft (German Research Foundation), Swiss Super Computer Centre (atmospheric science), Research Council of Norway, Swedish Research Council; Knut & Alice Wallenberg Foundation, Sweden; Austrian Science Fund (FWF).

Member of NERC Peer Review College (2014-present)

Member of review committee for the Natural Science and Engineering Research Council of Canada's Climate Change and Atmospheric Research initiative (Aug 2012 – Aug 2013)

Member of peer review panel for the Research Council of Norway (2015-2017)

Member of Leeds University internal review panel for NERC proposals (2015 – current)

Journal peer reviewer for: Geophysical Research Letters, Journal of Geophysical Research (Atmospheres, Oceans, Earth Surface), Quarterly Journal of the Royal Meteorological Society, Journal of Applied Meteorology, Journal of the Atmospheric Sciences, Journal of Atmospheric and Oceanic Technology, Journal of Physical Oceanography, Boundary-Layer Meteorology, Atmospheric Research, Atmospheric Science Letters, Applied Optics, Journal of Operational Oceanography, Atmospheric Chemistry & Physics, Polar Record, Advances in Meteorology, Atmospheric Measurement Techniques, Earth System Science Data, Journal of Advances in

Modelling Earth Systems, Polar Research, International Journal of Climatology, Nature Scientific Data.

Member of the American Meteorological Society's Committee on Boundary Layers and Turbulence (2013-2019)

Member of the UK Arctic-Antarctic Partnership (UKAAP) steering committee (2017-current)

Invited participant in Norwegian-British Workshop on Arctic Marine Science, Tromsø, 17-18 June 2014.

UK Atmospheric science representative on the Science User Group to develop specification of requirements for new NERC polar research vessel RRS *Sir David Attenborough* (2014-current).

Member of meteorological instrumentation working group for the UK Facility for Airborne Atmospheric Measurements (FAAM) (2014-current)

Associate Editor, Atmospheric Chemistry and Physics/Ocean Science/Atmospheric Measurement Techniques joint ASCOS project special issue (2010-2013)

Member of the Surface Observations Working Group of the NERC/MetOffice Joint Weather & Climate Research Programme (JWCRP) Joint Facilities Group.

Organiser and Co-Chair, American Meteorological Society's 21st Conference on Boundary Layers and Turbulence, Leeds, June 9-13, 2014.

Organiser & Co-Chair, UK Arctic Science Conference, Leeds, September 14-16, 2011.

Joint Organiser and Chair, EU-COST SOLAS Workshop on Primary Marine Aerosol Fluxes, NUI Galway, May 10-11, 2010

Conference Session Chair: AMS 15th Conference on Air-Sea Interaction, Portland, Oregon, August 2007; AMS 21st Conference on Boundary Layers and Turbulence, Leeds, June 2014; AMS 19th Conference on Air-Sea Interaction, Phoenix, AZ, USA, January 2015.

AGU 2020 Editors' Citation for Excellence in refereeing – Geophysical Research Letters

OUTREACH & PUBLIC ENGAGEMENT

Invited speaker, Royal Meteorological Society meeting on Weather Measurements in Difficult Places, Cambridge, March 2023

Invited speaker, AGM of the Climatological Observers Link, *Nov 2021*

Guest on *Atmospheric Tales* podcast, *August 2020*.

Invited talk for Royal Meteorological Society on MOSAiC project, *online, April 2021*.

Discussion panel member, Cheltenham Science Festival, 2020 – panel on MOSAiC Arctic research programme.

Interviewed for BBC Radio 4 *Costing The Earth* programme about the 2018 Arctic research cruise on icebreaker Oden.

Contributions to Swedish Polar Research Secretariat blog during Arctic Ocean 2016 expedition.

Interviewed for *Audible Structures: Expedition to the Icebergs* – a commissioned audio artwork to coincide with the British Art Show 8, Leeds City Gallery, October 2015.

Invited talk for Royal Meteorological Society Yorkshire Local Group on meteorological measurements in extreme environments. Apr 22, 2015.

Talk to 6th form students for Leeds Festival of Science, March 18, 2015.

Invited public talk for Leeds Cafe Scientifique on Arctic climate science. Feb 10, 2015.

Public talk on undertaking Arctic fieldwork for the “Real Science for Real Life” programme strand at the *Saltire Festival 2013*.

Participant in live online question and answer session for the Guardian Science Blog, undertaken from the field while on an oceanographic research cruise in Antarctic waters:

<http://www.guardian.co.uk/science/blog/2012/apr/23/antarctic-researchers-live-q-a>

Blogging field campaigns at <http://frictionvelocity.wordpress.com/> and via twitter @IanMBrooks

‘Weather Weekend’ – 2-day course on meteorology, weather forecasting, and climate run for the YHA, 2002-2005. 2005 course jointly sponsored by the Royal Meteorological Society.

‘Wild Weather’ – short talks to groups of school children as part of university of Leeds activities for National Science Week 2004.

INVITED SEMINARS & TALKS

Indian Institute of Technology, Roorkee, India. Keynote talk at FOREcaSting and Early warning of Extreme Events and Disasters workshop, *January 2023*

Centre for Geography & Environmental Science, University of Exeter, UK, *March 2021*.

Leibniz Institute for Tropospheric Research, Leipzig, Germany, *August 2019*.

Royal Society / Italian National Research Council bilateral workshop – Science of the Polar Regions – *Venice, Italy, June 20-21, 2019*

Royal Meteorological Society National Meeting on Arctic Prediction in a Changing Climate, London, UK, *November 2018*

School of Earth and Environmental Sciences, University of Manchester, UK, *November 2016*

Meteorological Institute, Stockholm University, Sweden, *March 2016*

British Antarctic Survey, Cambridge, UK, *May 2015*

Naval Research Laboratory, Monterey (Meteorology Division), CA, USA. *January 2015*.

School of Environmental Sciences, University of East Anglia, UK, *February 2014*

Department of Meteorology, University of Reading, UK, *November 2011*

Royal Meteorological Society meeting on Physical Processes in Polar Regions, University of Leeds, *Sept 16 2011*

Invited speaker, UK Polar Network Workshop – Investigating Variability in Polar Climates: Past, Present and Future, *April 2010* – meeting for PhD students and early career researchers in polar science

School of Environmental Science, University of East Anglia, UK, *February 2008*

Rosenstiel School of Marine & Atmospheric Science, University of Miami, Florida, USA, *January 2008*

National Oceanography Centre, Southampton, *November 2007*

Department of Meteorology, University of Stockholm, Sweden, *December 2004*

Department of Physics, University of Aberystwyth, *May 2004*

FIELD EXPERIENCE

Aug 2022: RRS Sir David Attenborough science trials.

Sept-Dec 2019: MOSAiC – installation and operation of meteorological measurement systems on board icebreaker Polarstern, and on the sea ice in central Arctic Ocean. Measurements continued over a full 12 months.

June 2019: ICECAPS-ACE – Summit station, Greenland.

Aug-Sept 2018: AO2018 – surface meteorology and cloud remote sensing on 8-week measurement campaign on icebreaker Oden, including 4 weeks of measurements on sea ice.

Aug-Sept 2016: AO2016 – meteorology team leader on 6 week cruise in central Arctic Ocean. Installed and ran surface flux system, radiosounding system, and maintained additional instruments from Stockholm University and FMI.

July-Oct. 2014: ACSE – first 7 weeks of a 3 month research cruise in Arctic Ocean. Installed & operated motion-stabilised Doppler lidar, scanning microwave radiometer, full surface turbulent flux system on foremast, IR surface temperature measurement, and radiosounding system. Collaboration with Stockholm and Univ. Boulder Colorado/NOAA-CIRES.

- Oct.-Nov. 2013: HiWinGS – 6 week cruise to study high wind air-sea exchange. Installed CLASP aerosol flux system, whitecap imaging cameras; deployed waverider buoy and in collaboration with NOC their 11-m spar buoy.
- Mar-Apr. 2013: ACCACIA – aircraft mission scientist – directing science in flight, planning & forecasting for aircraft based measurement campaign of Arctic boundary layer, clouds and aerosol. Coordination of multiple platforms (2 aircraft + ship)
- 2009-2013: WAGES – continuous direct measurement of air-sea fluxes from RRS James Clark Ross. 2-3 manned cruises each year; deployment of waverider & spar buoys.
- Jul.-Aug. 2010: ASIST/ITOP – deployment of aerosol flux measurement systems on autonomous buoys in Pacific Ocean; joint with University of Miami.
- Jul.-Sept. 2008: ASCOS – lead scientist for surface meteorology component of multidisciplinary field campaign in central Arctic Ocean. Installed turbulent flux masts, SODAR, and tethered balloon profiling system on sea ice.
- Apr. 2008: balloon-borne in-situ measurements of turbulence dissipation rate and aerosol spectra for calibration of lidar retrievals.
- Jan. 2008: Integration of high rate aerosol instrument into flux measurement system on University of Miami's Air-Sea Interaction Spar (ASIS) buoys for deployment Apr. 2008 in Southern Ocean.
- Mar.-Apr. 2007: SEASAW project, 4-week air-sea interaction cruise on RRS Discovery – eddy covariance measurements of CO₂ and sea-spray aerosol fluxes and bubble spectra, Principal Science Officer for cruise.
- Nov.-Dec. 2006: SEASAW project, 6-week air-sea interaction cruise on RRS Discovery – eddy covariance measurements of CO₂ and sea-spray aerosol fluxes. Planning of campaign, design of measurement systems, liaison with other projects sharing ship time.
- 2006-2007: Canopy Flow Experiment, 2006 – eddy covariance flux measurements in flow over a forested hill, Isle of Arran. Planning of field programme, design of measurement systems.
- Mar., Apr. 2006: Terrain-induced Rotor Experiment (TREX) – Design, fabrication and installation of turbulent & radiative flux measurement sites in Owens Valley, California.
- Jun.-Jul. 1996: Coastal Waves '96 – member of science team, and flight planning on NCAR C-130
- Apr. 1996: SHAREM-115 – member of science team on Meteorological Research Flight C-130
- Jun.-Jul. 1994: Monterey Area Ship Tracks (MAST) experiment – member of science team & instrument operator on Meteorological Research Flight C-130

GRADUATE STUDENT SUPERVISION

PhD STUDENTS

- Rosie Danks, 01/09/2023 – Current
Arctic boundary layer processes
- Vania López García, 01/10/2019 – Current
MOSAIC boundary layer dynamics
- Heather Guy, 01/01/2019 – 31/12/2022 (co-supervisor)
Energy balance of Greenland Summit (lead supervisor R. Neely)
- Ruth Price, 01/10/2018 – 30/9/2022 (co-supervisor)
Aerosol-cloud interactions in Arctic (lead supervisor K. Carslaw)
- Jonathan Pennells, 01/10/2013 – 2017 (co-supervisor)
Wind farm impacts on local down-wind meteorology (lead supervisor Andrew Ross)
- Rebecca Jansen, 01/10/2012 – 18/3/2019
Arctic boundary layer structure, aircraft measurements and large eddy simulations
- Rhiannon Davis, 01/10/2012 – 2018 (external supervisor on PhD at UEA, with Ian Renfrew)
Evaluation of a new total turbulent energy boundary layer scheme for the Arctic

Dominic Salisbury, 01/9/2010 – 30/3/2014

Air-sea flux estimates from satellite remote sensing products, funded via ASIST project grant.

David Tupman, 01/09/2009 – 30/09/2013

Air-sea gas exchange, funded via WAGES project grant.

Matthew Hobby, 01/10/2007 – 30/09/2013 (co-supervisor)

Development of a balloon-borne tethersonde for turbulence measurement (part time student & member of technical support staff, lead supervisor S. Mobbs)

Thomas Pleavin, 01/10/2008 – 18/6/2013

Large eddy simulation of arctic stratus cloud, funded via NERC Open CASE studentship with Met Office

Cathryn Birch, 01/10/2006 – 30/10/2009

Surface-atmosphere coupling over the central arctic ocean. NERC quota studentship + CASE award from Met Office

Member of PhD advisory group for: Sarah Norris (2003-2006), Paul Smith (2005-2009), Rosey Grant (2006-2010), Tom Breider (2006-2010), Lawrence Jackson (2007-2011), Bradley Jemmet-Smith (2009-2013)

External PhD thesis reviewer, Leipzig University, Germany, 2022 – “Arctic low-level mixed-phase clouds and their complex interactions with aerosol and radiation” – Hannes Griesche

External PhD thesis reviewer, University of Helsinki, Finland, 2019 – “Meteorological conditions affecting renewable energy” – Minttu Tuononen

External PhD examiner, University of Southampton, December 2009 – “Measurements of Sub-Surface Bubble Populations and the Modelling of Air-Sea Gas Flux” – David Coles

Internal PhD Examiner, University of Leeds, January 2021 – “Response of the Patagonian Glaciers to Present and Future Atmospheric Changes” – Claudio Bravo Lechuga

Internal PhD Examiner, University of Leeds, November 2020 – “Measuring and identifying ice nucleating particles in the atmosphere” – Alberto Sánchez Marroquín

Internal PhD Examiner, University of Leeds, November 2012 – “Quantifying the impact of natural and anthropogenic aerosol in the Arctic” – Jo Browse

Internal PhD Examiner, University of Leeds, March 2012 – “Predictability and dynamics of potential vorticity streamers and connections to high impact weather” – Arwen Twitchett

Internal PhD examiner, University of Leeds, December 2009 – “Turbulence as a Mediator of Processes in a Macrotidal Estuary” – William Thurston

MASTERS PROJECT STUDENTS

Lindsay Hogan, 2020-2021: a satellite based drag parameterization over sea ice

Samuel Hall, 2020-2021: Large Eddy Simulation of Arctic clouds

Zhongwei Liu, 2017-2018: Surface flux parameterization over Arctic sea ice

Zixuan Jia, 2017-2018: The turbulent structure of the Arctic boundary layer

Rebecca Jansen, 2010 – 2011: Analysis of aircraft measurements of surface fluxes over inhomogeneous Antarctic sea ice.

Ruth Loughrey, 2009 – 2010: Sodar retrievals of Arctic boundary layer structure.

Andrew Fish, 2008 – 2009: Sodar measurements of surface mixed layer depth in the Arctic boundary layer. (Poster presented at AMS Conference on Polar Meteorology & Oceanography, 2009)

Anthony Bloom, 2006 – 2007: Measurement and modelling of air-sea CO₂ exchange (Poster presented at AMS Conference on Air-Sea Interaction, 2007)

Alison Fowler, 2005 – 2006: Large eddy simulation of entrainment processes (poster presented at AMS Conference on Boundary Layers and Turbulence, awarded student poster prize; work published in Geophysical Research Letters 2007)

MISCELLANEOUS

Supervised NERC Research Experience Placement student (competitively funded), Samantha Clarke, summer 2010 – analysis of large eddy simulations of entrainment processes.

Supervised and funded undergraduate students for summer research internships:

2021 – Chalissar Baines – analysis of Doppler lidar data from Arctic field campaign

2014 – Joshua Talib – processing of cruise whitecap imagery & analysis of camera exposure biases in results.

2012 – Emma Simpson – set up of WRF model for operational forecasts for ACCACIA field campaigns and analysis of ASCOS cloud radar data.

2010 – Tim Baker – processing and quality control of digital ocean whitecap imagery from SOLAS research cruises

2009 – Ruth Loughrey – processing of bubble spectra data from ASCOS project

TEACHING

MANAGEMENT

Programme manager, M.Res. Physics of the Earth & Atmosphere, School of Earth & Environment, University of Leeds, 2006-2010

UNDERGRADUATE TEACHING

Ocean and Atmosphere Climate Change Processes – level 3 lecture course – 2005-present. Developed and teach 2/3 of module. Module manager.

Oceanography in the Earth System – level 3 lecture course – 2009-2011, 2015-present. Developed and teach 1/3 of module: physical oceanography.

Introduction to Meteorology and Weather Forecasting – level 1 lecture course – 2004-2006. Developed whole module, taught and managed module.

Introduction to Oceanography – level 1 lecture course – 2003-2005. Developed and taught 20% of module : air-sea interaction.

Advance Field Course – level 2 4-day field course – 2002-2006, 2010-2012. Teach/lead 50% of course: atmospheric science, developed 20% of exercises. Managed module 2004-2006.

Atmospheric Science Field Course – level 3 6-day field course – 2002-2006. Jointly developed exercises in surface energy balance measurement and turbulent flux analysis; measurement of wind profiles from pilot balloon tracking.

Environmental Science Skills – level 2 module – 2002-2005.

Final year dissertation project supervision – 2003-present.

Undergraduate personal tutor 2003-2006

GRADUATE TEACHING

Invited lecturer, MOSAiC graduate school on Arctic science, on board the RV Akademik Fedorov, Sept 20 – Oct 26

Member of organising committee, and lecturer on WMO/WCRP ‘Polar Prediction School’, Abisko, Sweden, April 17-27, 2018.

Invited lecturer, WWRP/WCRP/Bolin Centre for Climate Research ‘Polar Prediction School’, Abisko, Sweden, April 5-15 2016.

Introduction to MATLAB programming – short course for PhD students from faculties of
Environment and Maths and Physical Sciences. 2004-2007, 2009-2011.
Personal tutor for MRes students 2006-2010

2023

87. Guy, H., **I. M. Brooks**, D. D. Turner, C. J. Cox, P. R. Rowe, M. D. Shupe, V. P. Walden, R. R. Neely III, 2023: Observations of fog-aerosol interactions over central Greenland, *J. Geophys. Res.*, 128, e2023JD038718. doi:10.1029/2023JD038718
86. Günther Heinemann, Lukas Schefczyk, Rolf Zentek, **Ian M. Brooks**, Sandro Dahlke, Andreas Walbröl., 2023: Evaluation of vertical profiles and atmospheric boundary layer structure using the regional climate model CCLM during MOSAiC, *Meteorology*, 2, 257-275, doi:10.3390/meteorology2020016
85. Young, G., J. Vüllers, P. Achtert, P. Field, J. Day, R. Forbes, R. Price, E. O'Connor, M Tjernström, J. Prytherch, R. Neely III, **I. M. Brooks**, 2023: Evaluating Arctic clouds modelled with the Unified Model and Integrated Forecasting System, *Atmos. Chem. Phys.*, 23, 4819–4847, doi:10.5194/acp-23-4819-2023
84. Elvidge, A. D., I. A. Renfrew, J. M. Edwards, **I. M. Brooks**, P. Srivastava, A. I. Weiss, 2023: Improved simulation of the Arctic atmospheric boundary layer by accounting for aerodynamic roughness in the parameterisation of surface scalar exchange over sea ice, *J. Advances in Modeling Earth Systems*, 15, e2022MS003305. doi:10.1029/2022MS003305
83. Price, R., A. Baccharini, J. Schmale, P. Zieger, **I. M. Brooks**, P. Field, K. Carslaw, 2023: Late summer transition from a free-tropospheric to boundary layer source of Aitken mode aerosol in the high Arctic, *Atmos. Chem. Phys.* 23, 2927–2961, doi:10.5194/acp-23-2927-2023

2022

82. Lopez Garcia, V., R. Neely III, S. Dahlke, **I. M. Brooks**: 2022: Low-level jets over the Arctic Ocean during MOSAiC, *Elementa: Science of the Anthropocene*. 10(1). doi:doi.org/10.1525/elementa.2022.00063.
81. Guy, H., D. Turner, V. Walden, **I. M. Brooks**, R. R. Neely III, 2022: Passive ground-based remote sensing of radiation fog, *Atmos. Meas. Tech.*, 15, 5095–5115, doi:10.5194/amt-15-5095-2022
80. Karlsson, L. A. Baccharini, P. Duplessis, D. Baumgardner, **I. M. Brooks**, R. Chang, L. Dada, K. R. Dällenbach, L. Heikkinen, R. Krejci, W. R. Leatch, C. Leck, D. G. Partridge, M. E. Salter, H. Wernli, M. J. Wheeler, J. Schmale, P. Zieger, 2022: On the origin and properties of cloud-forming particles over the central Arctic Ocean, *J. Geophys. Res.*, 127, e2021JD036383, doi:10.1029/2021JD036383
79. Czerski, H., **I. M. Brooks**, S. Gunn, R. Pascal, A. Matei, B. Blomquist, 2022: Ocean bubbles under high wind conditions. Part 2: Bubble size distributions and implications for models of bubble dynamics, *Ocean Sci.*, 18, 587–608, doi:10.5194/os-18-587-2022.
78. Czerski, H., **I. M. Brooks**, S. Gunn, R. Pascal, A. Matei, B. Blomquist, 2022: Ocean bubbles under high wind conditions. Part 1: Bubble distribution and development. *Ocean Sci.*, 18, 565–586, doi:10.5194/os-18-565-2022.
77. Srivastava, P., **I. M. Brooks**, J. Prytherch, D. J. Salisbury, A. D. Elvidge, I. A. Renfrew, M. J. Yelland, 2022: Ship-based estimates of momentum exchange coefficient over sea ice and recommendation for its parameterization. *Atmos. Chem. Phys.* 22, 4763–4778, doi:10.5194/acp-22-4763-2022
76. Duscha, C., C. Barrell, I. Renfrew, **I. M. Brooks**, H. Sodemann, J. Reuder, 2022: A ship-based characterization of coherent boundary-layer structures during marine cold air outbreaks, *Bound.-Layer Meteorol.*, doi:10.1007/s10546-022-00692-y
75. Porter, G., M. P. Adams, **I. M. Brooks**, L. Ickes, L. Karlsson, C. Leck, M. E. Salter, J. Schmale, K. Siegel, S. N. Sikora, M. D. Tarn, J. Vüllers, H. Wernli, P. Zieger, J. Zinke, B. J. Murray., 2022: Highly active ice-nucleating particles at the summer North Pole, *J. Geophys. Res.*, 127, e2021JD036059, doi:10.1029/2021JD036059
74. Shupe M. D., M. Rex, D. Althausen, H. Angot, S. Archer, L. Bariteau, I. Beck, J. Bilberry, B. Blomquist, S. Bucci, C. Buck, G. de Boer, M. Boyer, Z. Brasseur, **I. M. Brooks**, R. Calmer, J. Cassano, V. Castro, D. Chu, D. Costa, C. J. Cox, J. Creamean, S. Crewell, S. Dahlke, E. Damm,

H. Deckelmann, K. Dethloff, M. Dütsch, K. Ebell, A. Ehrlich, J. Ellis, R. Engelmann, A. A. Fong, M. Frey, M. R. Gallagher, L. Ganzeveld, R. Gradinger, J. Graeser, V. Greenamyer, H. Griesche, S. Griffiths, J. Hamilton, G. Heinemann, D. Helmig, A. Herber, C. Heuzé, J. Hofer, T. Houchens, D. Howard, J. Hueber, J. K. Hutchings, J. Inoue, H.-W. Jacobi, R. Jaiser, T. Jokinen, O. Jourdan, G. Jozef, W. King, A. Kirchgaessner, M. Klingebiel, M. Krassovski, T. Krumpfen, A. Lampert, W. Landing, T. Laurila, D. Lawrence, M. Lonardi, C. Lüpkes, M. Maahn, A. Macke, W. Maslowski, C. Marsay, M. Maturilli, M. Mech, M. Moser, M. Nicolaus, P. Ortega, J. Osborn, F. Pätzold, D. K. Perovich, P. O. G. Persson, C. Pilz, R. Pirazzini, K. Posman, H. Powers, K. Pratt, A. Preußner, L. Quéléver, M. Radenz, B. Rabe, A. Rinke, T. Sachs, J. Schmale, A. Schulz, H. Siebert, T. Silva, A. Solomon, A. Sommerfeld, G. Spreen, A. Stohl, G. Svensson, J. Uin, T. Uttal, J. Viegas, C. Voigt, P. von der Gathen, B. Wehner, J. Welker, M. Wendisch, M. Werner, F. Yue, 2022: Overview of the MOSAiC Expedition – Atmosphere, *Elementa: Science of the Anthropocene*, 10(1). doi:10.1525/elementa.2021.00060

2021

-
73. Guy, H., **I. M. Brooks**, K. S. Carslaw, B. J. Murray, V. P. Walden, M. D. Shupe, C. Pettersen, D. D. Turner, C. J. Cox, W. D. Neff, R. Bennartz, and R. R. Neely III., 2021: Controls on surface aerosol number concentrations and aerosol limited cloud regimes over the central Greenland Ice Sheet, *Atmos. Chem. Phys.*, 21, 15351–15374, doi:10.5194/acp-21-15351-2021
 72. Elvidge, A. D., I. A. Renfrew, **I. M. Brooks**, P. Srivastava, M. J. Yelland, J. Prytherch, 2021: Surface heat and moisture exchange in the marginal ice zone: Observations and a new parameterization scheme for weather and climate models, *J. Geophys. Res.*, 126, e2021JD034827, doi:10.1029/2021JD034827
 71. Zinka, J., M. Salter, C. Leck, M. J. Lawler, G. C. E. Porter, M. P. Adams, **I. M. Brooks**, B. J. Murray, P. Zieger, 2021: The development of a miniaturised balloon-borne cloud water sampler and its first deployment in the high Arctic, *Tellus B*, 73, 1915614, doi:10.1080/16000889.2021.1915614
 70. Tjernström, M., G. Svensson, L. Magnusson, **I. M. Brooks**, J. Prytherch, J. Vüllers, G. Young, 2021: Central Arctic Weather Forecasting: Confronting the ECMWF IFS with observations from the Arctic Ocean 2018 expedition, *Quart. J. Roy. Meteorol. Soc.* doi:10.1002/qj.3971
 69. Vüllers, J., P. Achtert, **I. M. Brooks**, M. Tjernström, J. Prytherch, A. Burzik, R. Neely III, 2021: Meteorological and cloud conditions during the Arctic Ocean 2018 Expedition. *Atmos. Chem. Phys.* 21, 289–314, doi:10.5194/acp-21-289-2021, 2021.

2020

-
68. Achtert, P., E. O'Connor, **I. M. Brooks**, G. Sotiropoulou, M. D. Shupe, P. O. G. Persson, B. Pospichal, B. J. Brooks, M. Tjernström, 2020: Properties of Arctic mixed phase clouds from ship-borne Cloudnet observations during ACSE 2014, *Atmos. Chem. Phys.* 20, 14983–15002, doi:10.5194/acp-2020-56.
 67. Baccarini, A., L. Larksson, J. Dommen, P. Duplessis, J. Vüllers, **I. M. Brooks**, A. Saiz-Lopez, M. Salter, M. Tjernström, U. Baltensperger, P. Zieger, J. Schmale, 2020: Frequent new particle formation over the high Arctic pack ice by enhanced iodine emissions, *Nature Comms.* 11, 4924 (2020). doi:10.1038/s41467-020-18551-0
 66. Porter, G. C. E., S. N. F. Sikora, M. P. Adams, U. Proske, A. D. Harrison, M. D. Tarn, **I. M. Brooks**, B. J. Murray, 2020: Resolving the size of ice-nucleating particles with a balloon deployable sampler: the SHARK, *Atmos. Meas. Tech.*, 13, 2905–2921 doi:10.5194/amt-13-2905-2020.
 65. Frey, M. M., S. J. Norris, **I. M. Brooks**, P. S. Anderson, K. Nishimura, X. Yang, A. E. Jones, S. Palm, M. Nerentorp Mastromonaco, D. H. Jones, E. Wolff, 2020: First direct observations of sea salt aerosol production from blowing snow above sea ice, *Atmos. Chem. Phys.* 20, 2549–2578, doi: 10.5194/acp-20-2549-2020
 64. Thornton, B. F., J. Prytherch, K. Andersson, **I. M. Brooks**, D. Salisbury, M. Tjernström, P. M. Crill, 2020: Shipborne eddy covariance observations of methane fluxes constrain Arctic sea emissions, *Science Advances.* 6, eaay7934, doi:10.1126/sciadv.aay7934

-
63. Yang, M. S. J. Norris, T. G. Bell, **I. M. Brooks**. 2019: Sources of Aerosols on the Southwest Coast of the United Kingdom Part I: Total and Size-Distributed Sea Spray Number Fluxes, *Atmos. Chem. Phys.*, 19, 15271-15284, doi:10.5194/acp-19-15271-2019.
62. Renfrew, I. A., R. S. Pickart, K. Våge, G. W. K. Moore, T. Bracegirdle, A. Elvidge, E. Jeansson, T. Lachlan-Cope, L. T. McRaven, L. Papritz, J. Reuder, H. Sodemann, A. Terpstra, S. Waterman, H. Valdimarsson, A. Weiss, M. Almansi, F. Bahr, A. Brakstad, C. Barrell, J. K. Brooke, B. J. Brooks, **I. M. Brooks**, M. E. Brooks, E. M. Bruvik, C. Duscha, I. Fer, H. M. Golid, M. Hallerstig, I. Hessevik, J. Huang, L. Houghton, S. Jónsson, M. Jonassen, K. Jackson, K. Kvalsund, E. Kolstad, K. Konstali, J. Kristiansen, R. Ladkin, P. Lin, A. Macrander, A. Mitchell, H. Olafsson, A. Pacini, C. Payne, B. Palmason, M. D. Pérez-Hernández, A. K. Petersen, G. N. Petersen, M. N. Pisareva, J. Pope, A. Seidl, S. Semper, D. Sergeev, S. Skjelsvik, H. Soiland, D. Smith, M. Spall, T. Spengler, A. Touzeau, G. Tupper, Y. Weng, K. D. Williams, X. Yang, S. Zhou, 2019: The Iceland Greenland Seas Project, *Bull. Amer. Meteorol. Soc.*, 100, 1795-1817, doi:10.1175/BAMS-D-18-0217.1
61. Naakka T., T. Nygård, M. Tjernström, T. Vihma, R. Pirazzini, **I. M. Brooks**, 2019: The importance of Arctic sounding observations, *Geophys. Res. Letts.* 46, GRL59351, doi:10.1029/2019GL083332.
60. X. Yang, M. M. Frey, R. H. Rhodes, S. J. Norris, **I. M. Brooks**, P. S. Anderson, K. Nishimura, A. E. Jones, E. W. Wolff, 2019: Sea salt aerosol production via sublimating wind-blown saline snow particles over sea ice: parameterizations and relevant microphysical mechanisms, *Atmos. Chem. Phys.*, 19, 8407-8424, doi: 10.5194/acp-2018-1080.
59. Tjernström, M., M. D. Shupe, **I. M. Brooks**, P. Achtert, J. Prytherch, J. Sedlar, 2019: Arctic summer air-mass transformation, surface inversions and the surface energy budget, *J. Clim.*, 32, 3, 769-789, doi:10.1175/JCLI-D-18-0216.1

-
58. Benedetti, A., J. S. Reid, A. Baklanov, S. Basart, O. Boucher, **I. M. Brooks**, M. Brooks, P. R. Colarco, E. Cuevas, A. da Silva, F. Di Giuseppe, J. Escribano, J. Flamming, N. Huneeus, O. Jorba, S. Kazadzis, S. Kinne, P. Knippertz, P. Laj, J. H. Marsham, L. Menut, L. Mona, T. Popp, P. K. Quinn, S. Rémy, T. S. Sekiyama, T. Y. Tanaka, E. Terradellas, A. Wiedensohler, 2018: Status and future of Numerical Atmospheric Aerosol Prediction with a focus on data requirements. *Atmos. Chem. Phys.* 18, 10615–10643, doi:10.5194/acp-18-10615-2018.
57. de Boer, G., M. Ivey, B. Schmid, D. Lawrence, D. Dexheimer, Fan Mei, J. Hubbe, A. O. Bendure, J. Hardesty, M. Shupe, A. McComiskey, H. Telg, C. Schmitt, S. Matrosov, **I. M. Brooks**, J. Creamean, A. Solomon, D. Turner, C. Williams, M. Maahn, B. Argrow, S. Palo, C. Long, R.-S. Gao, and J. Mather. 2018: A Bird's Eye View: Development of an Operational ARM Unmanned Aerial Systems Capability for Atmospheric Research in Arctic Alaska, *Bull. Amer. Meteorol. Soc.*, 1197-1212, doi:10.1175/BAMS-D-17-0156.1

-
56. Blomquist, B. W., S. Brumer, C. W. Fairall, B. Huebert, C. J. Zappa, **I. M. Brooks**, M. Yang, L. Bariteau, J. Prytherch, J. E. Hare, H. Czerski, A. Matei, R. W. Pascal, 2017: Wind speed and sea state dependencies of air-sea gas transfer: results from the High Wind speed Gas exchange Study (HiWinGS), *J. Geophys. Res.* 122, doi: 10.1002/2017JC013181
55. Brumer, S. E., C. J. Zappa, B. Blomquist, C. W. Fairall, A. Cifuentes-Lorenzen, J. B. Edson, **I. M. Brooks**, B. Huebert, 2017, Wave-related Reynolds number parameterizations of CO₂ and DMS transfer velocities, *Geophys. Res. Letts.* 44, doi:10.1002/2017GL074979
54. **Brooks, I. M.**, M. Tjernström, P. O. G. Persson, M. Shupe, R. A. Atkinson, G. Canut, C. E. Birch, T. Mauritsen, J. Sedlar, B. J. Brooks, 2017: The vertical turbulent structure of the Arctic summer boundary layer during ASCOS. *J. Geophys. Res.* 122, doi:10.1002/2017JD027234
53. Brumer, S. E., C. J. Zappa, **I. M. Brooks**, H. Tamura, S. M. Brown, B. Blomquist, C. W. Fairall, A. Cifuentes-Lorenzen, 2017: Whitecap coverage dependence on wind and wave statistics as

observed during SO GasEx and HiWinGS, *J. Phys. Oceanogr.* **47**, 2211-2235, doi:10.1175/JPO-D-17-0005.1

52. Prytherch, J., **I. M. Brooks**, P. Crill, B. Thornton, D. J. Salisbury, M. Tjernström, L. Anderson, M. C. Geibel, C. Humborg, 2017: Direct determination of the air-sea CO₂ gas transfer velocity in Arctic sea ice regions, *Geophys. Res. Letts*, **44**, doi:10.1002/2017GL073593.

2016

51. Sotiropoulou G., M. Tjernström, J. Sedlar, P. Achtert, B. J. Brooks, **I. M. Brooks**, P. O. G. Persson, J. Prytherch, D. J. Salisbury, M. D. Shupe, P. E. Johnston, D. Wolfe, 2016: Atmospheric conditions during the Arctic Clouds in Summer Experiment (ACSE): Contrasting open-water and sea-ice surfaces during melt and freeze-up seasons, *J. Clim.*, **29**, 8721-8744, doi:10.1175/JCLI-D-16-0211.1
50. Yang, M., T. G. Bell, B. W. Blomquist, C. W. Fairall, **I. M. Brooks**, P. D. Nightingale, 2016: Air-sea transfer of gas phase controlled compounds, *IOP Conf. Series: Earth & Environ. Sci.* **35**, doi:10.1088/1755-1315/35/1/012011
49. Yang, M., T. G. Bell, F. E. Hopkins, V. Kitidis, P. W. Cazenave, P. D. Nightingale, M. J. Yelland, R. W. Pascal, J. Prytherch, **I. M. Brooks**, T. J. Smyth. 2016: Air-Sea Fluxes of CO₂ and CH₄ from the Penlee Point Atmospheric Observatory on the South West Coast of the UK, *Atmos. Chem. Phys.* **16**, 5745–5761, doi:10.5194/acp-16-5745-2016
48. Elvidge, A. D., I. A. Renfrew, A. I. Weiss, **I. M. Brooks**, T. A. Lachlan-Cope, J. C. King, 2016: Observations of surface momentum exchange over the marginal-ice-zone and recommendations for its parameterization. *Atmos. Chem. Phys.* **16**, 1545–1563, doi:10.5194/acp-16-1545-2016

2015

47. Achtert, P., **I. M. Brooks**, B. J. Brooks, B. I. Moat, J. Prytherch, P. O. G. Persson, and M. Tjernström. 2015: Measurement of wind profiles over the Arctic Ocean from ship-borne Doppler lidar. *Atmos. Meas. Tech.* **8**, 4993-5007, doi: 10.5194/amt-8-4993-2015
46. Prytherch, J., M. J. Yelland, **I. M. Brooks**, D. J. Tupman, R. W. Pascal, B. I. Moat, S. J. Norris. 2015: Motion-correlated flow distortion and wave-induced biases in air-sea flux measurements from ships. *Atmos. Chem. Phys.*, **15**, 10619–10629, 2015, doi:10.5194/acp-15-10619-2015
45. Wilson, T. W., L. A. Ladino, P. A. Alpert, M. N. Breckels, **I. M. Brooks**, J. Browse, S. M. Burrows, K. S. Carslaw, J. A. Huffman, C. Judd, W. P. Kilitau, R. H. Mason, G. McFiggans, L. A. Miller, J. Najera, E. Polishchuk, S. Rae, C. L. Schiller, M. Si, J. Vergara Temprado, T.F. Whale, J.P.S. Wong, O. Wurl, J. D. Yakobi-Hancock, J. P. D. Abbatt, J. Y. Aller, A. K. Bertram, D. A. Knopf, and B. J. Murray, 2015: A marine biogenic source of atmospheric ice nucleating particles, *Nature*, **525**, 234-238, doi:10.1038/nature14986
44. Tjernström, M., M. D. Shupe, **I. M. Brooks**, P. O. G. Persson, J. Prytherch, D. J. Salisbury, J. Sedlar, P. Achtert, B. J. Brooks, P. E. Johnston, G. Sotiropoulou, D. Wolfe, 2015: Warm-air advection, air mass transformation and fog causes rapid ice melt, *Geophys. Res. Letts.* **42**, doi:10.1002/2015GL064373
43. Garcia-Carreras, L., D. J. Parker, J. H. Marsham, P. D. Rosenberg, **I. M. Brooks**, A. P. Lock, F. Marengo, J. B. McQuaid, M. Hobby, 2015, The turbulent structure and diurnal growth of the Saharan atmospheric boundary layer. *J. Atmos. Sci.* **72**, 693-713, doi:10.1175/JAS-D-13-0384.1.

2014

42. Sotiropoulou, G., J. Sedlar, M. Tjernström, M. Shupe, **I. M. Brooks**, P. O. G. Persson, 2014: The thermodynamic structure of summer Arctic stratocumulus and the dynamic coupling to the surface. *Atmos. Chem. Phys.*, **14**, 12573–12592, doi:10.5194/acp-14-12573-2014
41. Rosenberg, P. D., D. J. Parker, C. L. Ryder, J. H. Marsham, L. Garcia-Carreras, J. R. Dorsey, **I. M. Brooks**, A. R. Dean, J. Crosier, J. B. McQuaid, R. Washington, 2014: Quantifying Particle Size and Turbulent Scale dependence of Dust Uplift in the Sahara Using Aircraft Measurements, *J. Geophys. Res.*, **119**, 7577–7598, doi:10.1002/2013JD021255
40. Tjernström, M., C. Leck, C. E. Birch, J. W. Bottenheim, B. J. Brooks, **I. M. Brooks**, L. Bäcklin, R. T.-W. Chang, E. Granath, M. Graus, A. Hansel, J. Heintzenberg, A. Held, A. Hind, S. de la Rosa, P. Johnston, J. Knulst, M. Westberg, G. de Leeuw, L. Di Liberto, M. Martin, P. A. Matrai,

T. Mauritsen, M. Müller, S. J. Norris, M. V. Orellana, D. A. Orsini, J. Paatero, P. O. G. Persson, Q. Gao, C. Rauschenberg, Z. Ristovski, J. Sedlar, M. D. Shupe, B. Sierau, A. Sirevaag, S. Sjögren, O. Stetzer, E. Swietlicki, M. Szczodrak, P. Vaattovaara, N. Wahlberg, and C. R. Wheeler, 2014: The Arctic Summer Cloud-Ocean Study (ASCOS): Overview and experimental design. *Atmos. Chem. Phys.*, **14**, 2823–2869, doi: 10.5194/acp-14-2823-2014

39. Salisbury, D. J., M. Anguelova, and **I. M. Brooks**, 2014: Global Distribution and Seasonal Changes in Satellite-based Whitecap Fraction Estimates, *Geophys. Res. Letts.*, **41**, doi: 10.1002/2014GL059246

2013

38. Salisbury, D. J., M. Anguelova, and **I. M. Brooks**, 2013: On the variability of whitecap fraction using satellite-based observations, *J. Geophys. Res.*, **118**, 1-22, doi:10.1002/2013JC008797
37. Shupe, M. D., P. O. G. Persson, **I. M. Brooks**, M. Tjernström, J. Sedlar, T. Mauritsen, C. Leck, S. Sjogren, 2013: Cloud and boundary layer interactions over the Arctic sea-ice in late summer, *Atmos. Chem. Phys.* **13**, 9379–9400, doi:10.5194/acp-13-9379-2013
36. Norris, S. J., **I. M. Brooks**, D. J. Salisbury, 2013: A wave roughness Reynolds number parameterization of the sea spray source flux, *Geophys. Res. Letts.* **40**, 1-5, doi:10.1002/grl.50795
35. Norris, S. J., **I. M. Brooks**, B. I. Moat, M. J. Yelland, R. W. Pascal, G. de Leeuw, 2013: Field Measurements of Aerosol Production from Whitecaps in the Open Ocean. *Ocean Science*, **9**, 133–145, doi: 10.5194/os-9-133-2013
34. Sproson, D. A. J., **I. M. Brooks**, and S. J. Norris, 2013: The effect of hygroscopicity on eddy covariance estimates of sea-spray aerosol fluxes: a comparison of high-rate and bulk correction methods. *Atmos. Meas. Tech.* **6**, 323–335, doi:10.5194/amt-6-323-2013

2012

33. Tjernström, M, C. E. Birch, **I. M. Brooks**, M. D. Shupe, P. O. G. Persson, J. Sedlar, T. Mauritsen, C. Leck, J. Paatero, M. Szczodrak, and C. R. Wheeler, 2012: Meteorological conditions in the central Arctic summer during the Arctic Summer Cloud Ocean Study (ASCOS), *Atmos. Chem. Phys.*, **12**, 6863-6889, doi:10.5194/acp-12-6863-2012.
32. Shupe, M. D., **I. M. Brooks**, G. Canut. 2012: Evaluation of turbulent dissipation rate retrievals from Doppler cloud radar, *Atmos. Meas. Tech.* **5**, 1375–1385, doi:10.5194/amt-5-1375-2012.
31. Norris, S. J., **I. M. Brooks**, M. K. Hill, B. J. Brooks, M. H. Smith, and D. A. J. Sproson, 2012: Eddy Covariance Measurements of the Sea Spray Aerosol Flux over the Open Ocean. *J. Geophys. Res.* **117**, D07210, 15pp, doi: 10.1029/2011JD016549
30. Birch, C. E., **I. M. Brooks**, M. Tjernström, M. Shupe, S. F. Milton, P. Earnshaw, T. Mauritsen, J. Sedlar, P. Ola G. Persson, and C. Leck, 2012: Modelling atmospheric structure, cloud and their response to CCN in the central Arctic: ASCOS case studies. *Atmos. Chem. Phys.* **12**, 3419–3435, doi: 10.5194/acp-12-3419-2012
- 29 **Brooks, I. M.** and A. M. Fowler, 2012: An Evaluation of boundary-layer depth, inversion and entrainment parameters by large eddy simulation. *Bound.-Layer Meteorol.* **142**, 245-263, doi: 10.1007/s10546-011-9668-3

2011

- 28 Held A., **I. M. Brooks**, C. Leck, Michael Tjernström, 2011: On the potential contribution of open lead particle emissions to the central Arctic aerosol concentration. *Atmos. Chem. Phys.* **11**, 3093-3105, doi:10.5194/acp-11-3093-2011.
- 27 Norris, S. J., **I. M. Brooks**, G. de Leeuw, A. Sirevaag, C. Leck, B. J. Brooks, C. E. Birch, and M. Tjernström, and 2011: Measurements of bubble size spectra within leads in the Arctic summer pack ice. *Ocean Science*, **7**, 129-139, doi:10.5194/os-7-129-2011.
- 26 Mauritsen, T., J. Sedlar, M. Tjernström, C. Leck, M. Martin, M. Shupe, S. Sjögren, B. Sierau, P. O. G. Persson, **I. M. Brooks**, E. Swietlicki, 2010: An Arctic CCN-limited cloud-aerosol regime. *Atmos. Chem. Phys.* **11**, 165–173, doi:10.5194/acp-11-165-2011.
- 25 Sedlar J.; M. Tjernström; T. Mauritsen; **I. M. Brooks**; C. E. Birch; M. Shupe; A. Sirevaag; P. O. G. Persson; C. Leck, 2011: A transitioning Arctic surface energy budget: the impacts of solar

zenith angle, surface albedo and cloud radiative forcing. *Climate Dynamics*, **37**, 1643-1660, doi: 10.1007/s00382-010-0937-5

2010

- 24 O'Connor, E. J., A. J. Illingworth, **I. M. Brooks**, C. D. Westbrook, and R. J. Hogan, F. Davis, B. J. Brooks, 2010: A method for estimating the turbulent kinetic energy dissipation rate from a vertically pointing Doppler lidar, and independent evaluation from balloon-borne in situ measurements, *J. Atmos. Oceanic. Tech.* **27**, 1652-1664. doi: 10.1175/2010JTECHA1455.1.

2009

- 23 Birch, C. E., **I. M. Brooks**, M. Tjernström, S. F. Milton, P. Earnshaw, S. Söderberg, P. O. G. Persson, 2009: The performance of a global and mesoscale model over the central Arctic Ocean during late summer. *J. Geophys. Res.* **114**, D13104, doi:10.1029/2008JD010790.
- 22 **Brooks, I. M.**, M. J. Yelland, R. C. Upstill-Goddard, P. D. Nightingale, S. Archer, E. d'Asaro, R. Beale, C. Beatty, B. Blomquist, A. A. Bloom, B. J. Brooks, J. Cluderay, D. Coles, J. Dacey, M. DeGrandpre, J. Dixon, W. M. Drennan, J. Gabriele, L. Goldson, N. Hardman-Mountford, M. K. Hill, M. Horn, P.-C. Hsueh, B. Huebert, G. de Leeuw, T. G. Leighton, M. Liddicoat, J. J. N. Lingard, C. McNeil, J. B. McQuaid, B. I. Moat, G. Moore, C. Neill, S. J. Norris, S. O'Doherty, R. W. Pascal, J. Prytherch, M. Rebozo, E. Sahlee, M. Salter, U. Schuster, I. Skjelvan, H. Slagter, M. H. Smith, P. D. Smith, M. Srokosz, J. A. Stephens, P. K. Taylor, M. Telszewski, R. Walsh, B. Ward, D. K. Woolf, D. Young, H. Zemmeling, 2009: Physical Exchanges at the Air-Sea Interface: Field Measurements from UK-SOLAS. *Bull. Amer. Meteorol. Soc.*, **90**, 629-644. doi: 10.1175/2008BAMS2578.1
- 21 **Brooks, I. M.**, M. J. Yelland, R. C. Upstill-Goddard, P. D. Nightingale, S. Archer, E. d'Asaro, R. Beale, C. Beatty, B. Blomquist, A. A. Bloom, B. J. Brooks, J. Cluderay, D. Coles, J. Dacey, M. DeGrandpre, J. Dixon, W. M. Drennan, J. Gabriele, L. Goldson, N. Hardman-Mountford, M. K. Hill, M. Horn, P.-C. Hsueh, B. Huebert, G. de Leeuw, T. G. Leighton, M. Liddicoat, J. J. N. Lingard, C. McNeil, J. B. McQuaid, B. I. Moat, G. Moore, C. Neill, S. J. Norris, S. O'Doherty, R. W. Pascal, J. Prytherch, M. Rebozo, E. Sahlee, M. Salter, U. Schuster, I. Skjelvan, H. Slagter, M. H. Smith, P. D. Smith, M. Srokosz, J. A. Stephens, P. K. Taylor, M. Telszewski, R. Walsh, B. Ward, D. K. Woolf, D. Young, H. Zemmeling, 2009: UK-SOLAS Field Measurements of Air-Sea Exchange: Instrumentation. *Bull. Amer. Meteorol. Soc.*, **90**, (electronic supplement), 9-16, doi: 10.1175/2008BAMS2578.2.

2008

- 20 Weller, R. A., E. F. Bradley, J. B. Edson, C. W. Fairall, **I. M. Brooks**, M. J. Yelland, R. W. Pascal, 2008: Sensors for physical fluxes at the sea surface: energy, heat, water, salt. *Ocean Science*, **4**, 247-263. Doi: 10.5194/os-4-247-2008
- 19 Hill, M. K., B. J. Brooks, S. J. Norris, M. H. Smith, **I. M. Brooks**, G. de Leeuw, 2008: A Compact Lightweight Aerosol Spectrometer Probe (CLASP). *J. Atmos. Oceanic Technol.*, **25**, 1996-2006.
- 18 **Brooks, I. M.** 2008: Spatially Distributed Measurements of Platform Motion for the Correction of Ship-Based Turbulent Fluxes. *J. Atmos. Oceanic Technol.*, **25**, 2007-2017.
- 17 Norris, S. J., **I. M. Brooks**, G. de Leeuw, M. H. Smith, M. Moeman, J. J. N. Lingard, 2008: Eddy covariance measurements of sea spray particles over the Atlantic Ocean. *Atmos. Chem. Phys.*, **8**, 555-563.

2007

- 16 **Brooks, I. M.** and Alison M. Fowler, 2007: A New Measure of Entrainment Zone Structure. *Geophys. Res. Letts.*, **34**, L16808, doi:10.1029/2007GL030958.

2003

- 15 **Brooks, I. M.**, 2003: Finding Boundary Layer Top: Application of a Wavelet Covariance Transform to Lidar Backscatter Profiles. *J. Atmos. Oceanic Technol.*, **20**, 1092-1105.

- 14 **Brooks, I. M.**, S. Söderberg, and M. Tjernström, 2003: *The turbulence structure of the stable atmospheric boundary layer around a coastal headland: Aircraft observations and modelling results.* *Bound-Layer Meteorol.*, **107**, 531-559.

2001

- 13 **Brooks, I. M.** 2001: Air-sea interaction and the spatial variability of surface evaporation ducts in a coastal environment. *Geophys. Res. Letts*, **28**, 2009-2012.

2000

- 12 Pirjola, L., C. D. O'Dowd, **I. M. Brooks**, and M. Kulmala, 2000: Can new particle formation occur in the clean marine boundary layer? *J. Geophys. Res.*, **105**, D21, 26531-26546.
- 11 Noone, K. J., E. Öström, R. J. Ferek, T. Garrett, P. V. Hobbs, D. W. Johnson, J. P. Taylor, L. M. Russell, R. C. Flagan, J. H. Seinfeld, C. D. O'Dowd, M. H. Smith, P. A. Durkee, K. Nielson, J. G. Hudson, R. A. Pockalny, L. DeBock, R. Van Grieken, R. F. Gasparovic, and **I. M. Brooks**. 2000: A case study of ships forming and not forming tracks in moderately polluted clouds. *J. Atmos. Sci.*, **57**, 2729-2747.
- 10 Noone, K. J., D. W. Johnson, J. P. Taylor, R. J. Ferek, T. Garrett, P. V. Hobbs, P. A. Durkee, K. Nielson, S. Platnick, M. D. King, E. Öström, C. D. O'Dowd, M. H. Smith, L. M. Russell, R. C. Flagan, J. H. Seinfeld, L. DeBock, R. Van Grieken, J. G. Hudson, **I. M. Brooks**, R. F. Gasparovic, and R. A. Pockalny. 2000: A case study of ship track formation in a polluted boundary layer. *J. Atmos. Sci.*, **57**, 2748-2764.
- 9 **Brooks, I. M.** and D. P. Rogers, 2000: Aircraft observations of the mean and turbulent structure of a shallow boundary layer over the Persian Gulf. *Bound.-Layer Meteorol.*, **95**, 189-210.

1999

- 8 **Brooks, I. M.**, A. K. Goroch, and D. P. Rogers, 1999: Observations of strong surface radar ducts over the Persian Gulf. *J. Appl. Meteorol.*, **38**, 1293-1310.

1998

- 7 Rogers, D. P., C. Dorman, K. Edwards, **I. M. Brooks**, K. Melville, S. Burk, W. Thompson, T. Holt, L. Ström, M. Tjernström, B. Grisogono, J. Bane, W. Nuss, B. Morley, and A. Schanot.,1998: Highlights of Coastal Waves 1996. *Bull. Amer. Meteorol. Soc.*, **79**, 1307-1326.

1997

- 6 **Brooks, I. M.** and D. P. Rogers. 1997: Aircraft observations of boundary-layer rolls off the coast of California. *J. Atmos. Sci.*, **54**, 1834-1849.
- 5 Martin, G. M., D. W. Johnson, P. R. Jonas, D. P. Rogers, **I. M. Brooks**, and R. Barlow, 1997: Effects of Airmass Type on the Interaction between Cumulus Clouds and Warm Stratocumulus Clouds in the Marine Boundary Layer. *Quart. J. Roy. Meteorol. Soc.*, **123**, 849-882.
- 4 **Brooks, I. M.**, C. P. R. Saunders, R. P. Mitzewa, and C. S. Peck, 1997: The effect on thunderstorm charging of the rate of rime accretion by graupel. *Atmos. Res.*, **43**, 277-295.

1995

- 3 **Brooks, I. M.** and C. P. R. Saunders, 1995: Thunderstorm charging: laboratory experiments clarified. *Atmos. Res.*, **39**, 263-273.

1994

- 2 **Brooks, I. M.** and C. P. R. Saunders, 1994: An experimental investigation of the inductive mechanism of thunderstorm electrification. *J. Geophys. Res.*, **99**, D5, 10627-10632

1992

- 1 Saunders, C. P. R. and **I. M. Brooks**, 1992: The effects of high liquid water content on thunderstorm charging. *J. Geophys. Res.*, **97**, D13, 14671-14676.

MISCELLANEOUS PUBLICATIONS

Bentley, M., M. Siegert, A. Jones, M. Meredith, K. Hendry, J. Arthur, **I. M. Brooks**, P. Convey, K. Dodds, M. Freeman, K. Hughes, N. Johnston, J. Marschalek, K. Nichols, C. Plaschkes, R.

- Rhodes, M. Taylor, 2021: The future of UK Antarctic Science – strategic priorities, essential needs and exciting opportunities, *Grantham Institute Discussion Paper 9*, 10pp, Imperial College London. doi:10.25561/9218.
- Siegert, S., S. Bacon, D. Barnes, **I. M. Brooks**, H. Burgess, F. Cottier, D. Depledge, K. Dodds, M. Edwards, R. Essery, K. Heywood, K. Hendry, V. Jones, J. Lea, I. Medby, M. Meredith, J. Screen, P. Steinberg, G. Tarling, J. Warner, G. Young, 2020: The Arctic and the UK: climate, research and engagement, *Grantham Institute Discussion Paper 7*, 8pp, Imperial College London. doi:10.25561/80095
- Blockley, E. J. Day, **I. M. Brooks**, R. Essery, C. Harlow, I. Renfrew, I. Sandu, 2019: RMetS National Meeting – Arctic Prediction in a Changing Climate: Understanding Key Processes and Challenges, *Weather*. doi:10.1002/wea.3475
- Day, J. J., G. Svensson, **I. M. Brooks**, C. Bitz, L. Broman, G. Carver, M. Chevallier, H. Goessling, K. Hartung, T. Jung, J. E. Kay, E. Kolstad, D. Perovich, J. Screen, S. Siemen, F. Váña, 2017: The Abisko Polar Prediction School, *Bull. Amer. Meteorol. Soc.*, doi:10.1175/BAMS-D-16-0119.1
- Spengler, T., I. A. Renfrew, A. Terpstra, M. Tjernström, J. Screen, **I. M. Brooks**, A. Carleton, D. Chechin, L. Chen, J. Doyle, I. Esau, P. Hezel, T. Jung, T. Kohyama, C. Lüpkes, K. E. McCusker, T. Nygård, D. Sergeev, M. D. Shupe, H. Sodemann, T. Vihma, 2016: Workshop Summary: Dynamics of Atmosphere-Ice-Ocean Interactions in the High Latitudes, *Bull. Amer. Meteorol. Soc.* doi:10.1175/BAMS-D-15-00302.1
- Moat, B. I., M. J. Yelland, and **I. M. Brooks**, 2015: Airflow distortion at instrument sites on the ODEN during the ACSE project, *National Oceanography Centre, Southampton, UK, Internal Document No. 17*, available at: <http://eprints.soton.ac.uk/385311/>
- Chance, R., L. Carpenter, **I. M. Brooks**, T. Wilson, J. Allan, A. Kirchgassner, 2014: Aerosol, clouds and climate in the Arctic, *Ocean Challenge*, 20, 23-28.
- Brooks, I. M.**, E. L. Andreas, G. McFiggins, M. D. Anguelova, and C. D. O'Dowd, 2011, Primary marine aerosol fluxes: progress and priorities. *Bull. Amer. Meteorol. Soc.* **92**, 4, 489–491, doi: 10.1175/2010BAMS3112.1.
- Brooks, I. M.**, 2007: The Sea Spray Gas Flux and Whitecaps Study (SEASAW). *FluxNews - Newsletter of the World Climate Research Programme Working Group on Surface Fluxes*, Issue 4, 2007.

CONFERENCE PRESENTATIONS

INVITED PRESENTATIONS

Brooks, I. M., 2018: Mixing it up, what connects Arctic clouds and sea ice. *Royal Meteorological Society National Meeting on Arctic Prediction, Nov 21, London.*

Brooks, I. M., S. J. Norris, M. J. Yelland, R. W. Pascal, J. Prytherch, 2015: Eddy covariance measurements of the sea-spray aerosol flux. *Fall Meeting of the AGU, Dec. 14-18, San Francisco, USA.*

Brooks, I. M., J. Prytherch, D. J. Salisbury, B. J. Brooks, J. Sedlar, G. Sotiropoulou, M. Tjernström, P. O. G. Persson, M. D. Shupe, P. M. Crill, B. F. Thornton, B. I. Moat, P. Achtert, 2015: Surface Turbulent Exchange over the Arctic Ocean – Measurements from the SWERUS-C3 / ACSE Project, *AMS 19th Conference on Air-Sea Interaction, January 4-8, Phoenix, AZ, USA.*

Brooks, I. M., 2011: The structure of the Arctic summer boundary layer: multi-sensor retrievals from ASCOS. *Royal Meteorological Society Physical Processes Group meeting on Polar Meteorology, Sept 16, Leeds, UK.*

Brooks, I. M., 2010: The Arctic Summer Cloud-Ocean Study : Field Measurements of Meteorological Processes in the Arctic Climate System. *Invited presentation : UK Polar Network workshop on “Investigating Variability in Polar Climates: Past, Present and Future”, April 8-9, Leeds University.*

Brooks, I. M., 2006: Measuring physical exchanges: sea spray, wave-breaking and whitecap production. *Challenger Conference for Marine Science. September 11-15, 2006, Oban.*

2023

259. Dave Turner, Heather Guy, **Ian Brooks**, Chris Cox, Penny Rowe, Matt Shupe, Von Walden, and Ryan Neely 2023: Observations of Thermodynamic Profiles in Fog and Fog-Aerosol Interactions, *9th International Conference on Fog, Fog Collection, and Dew, July 23-28, Fort Collins, Colorado, USA.*

258. Tjernström, M., G. Svensson, L. Magnusson, **I. M. Brooks**, J. Prytherch, J. Vüllers, G. McCusker, 2023: Systematic errors in the ECMWF/IFS – and ERA5 – over the summer Arctic Ocean, *IUGG General Assembly, 11-20 July, Berlin, Germany.*

257. Markus Frey, Amélie Kirchgäßner, Floortje van den Heuvel, Tom Lachlan-Cope, Frank Stratmann, Heike Wex, Amy MacFarlane, Jessica Mirrielees, Kerri Pratt, Ivo Beck, Julia Schmale, Kouichi Nishimura, **Ian Brooks**, 2023: Sea salt aerosol and ice nucleating particles (INP) in the Central Arctic during winter/spring – a discussion of a source from blowing snow above sea ice, *EGU General Assembly, Apr 23-28, Vienna, Austria.*

256. Cummins, D., V. Guemas, S. Blein, **I. M. Brooks**, I. Renfrew, A. Elvidge. 2023: Decreasing parametrization errors for polar surface turbulent fluxes using machine learning, *Arctic Science Summit Week, 17-24 Feb, Vienna, Austria*

255. Persson, P. O. G., **I. M. Brooks**, M. Shupe, A. Solomon, G. Young McCusker, D. Turner, 2023: Observations of Wintertime Boundary-Layer Structure and Mixing Processes at MOSAiC, *AMS Symposium on Meteorological Observation and Instrumentation, 8-12 Jan, Denver, USA*

2022

254. Karlsson, L. A. Baccharini, P. Duplessis, D. Baumgardner, **I. M. Brooks**, R. Chang, L. Dada, K. R. Dällenbach, R. Krejci, W. R. Leitch, C. Leck, M. E. Salter, H. Wernli, M. J. Wheeler, J. Schmale, P. Zieger, 2022: On the origin and properties of cloud-forming particles over the central Arctic Ocean, *International Aerosol Society Conf. 4-9 Sept., Athens, Greece.*

253. Vihma, T., M. Jonassen, T. Naakka, Q. Sun, T. Nygård, I. Suomi, M. Tjernström, R. Pirazzini, I. Välisuo, **I. M. Brooks**, P. Uotila, A. Makshtas, 2022: Use of in-situ observations on vertical profiles from the Arctic and Antarctic in data assimilation and evaluation of NWP model products and reanalyses, *Year of Polar Prediction – Final Summit, 29 Aug – 1 Sep, Montreal, Canada*

252. Elvidge, A., I. Renfrew, **I. M. Brooks**, P. Srivastava, M. Yelland, J. Prytherch, 2022: Surface Heat and Moisture Exchange over sea ice: Observations and a New Parameterization Scheme for

Weather and Climate Models, *Year of Polar Prediction – Final Summit, 29 Aug – 1 Sep, Montreal, Canada*

251. Elvidge, A., I. Renfrew, **I. M. Brooks**, P. Srivastava, 2022: Improved parameterisation of heat and moisture exchange over sea ice in a numerical weather prediction model, *Year of Polar Prediction – Final Summit, 29 Aug – 1 Sep, Montreal, Canada*
250. Turner, D. D., H. Guy, V. P. Walden, **I. M. Brooks**, R. Neely III., 2022: Characterizing Radiation Fog, *Annual Meeting of the American Meteorological Society, Aug 8-12, Madison, WI, USA*,
249. Karlsson, L. A. Baccarini, P. Duplessis, D. Baumgardner, I. M. **Brooks**, R. Chang, L. Dada, K. R. Dällenbach, R. Krejci, W. R. Leaitch, C. Leck, M. E. Salter, H. Wernli, M. J. Wheeler, J. Schmale, P. Zieger, 2022: On the origin and properties of cloud-forming particles over the central Arctic Ocean, *EGU General Assembly, Apr 3-8, Vienna, Austria*
248. Zieger, P., L. Karlsson, A. Baccarini, P. Duplessis, D. Baumgardner, **I. M. Brooks**, R. Chang, L. Dada, K. R. Dällenbach, R. Krejci, W. R. Leaitch, C. Leck, M. E. Salter, H. Wernli, M. J. Wheeler, and J. Schmale, 2022: Aerosol-cloud interactions over the central Arctic Ocean, *EGU General Assembly, Apr 3-8, Vienna, Austria*
247. Price, R., A. Baccarini, J. Schmale, P. Zieger, **I. M. Brooks**, P. Field, and K. Carslaw. 2022: Remote new particle formation dominates the nucleation and Aitken aerosol modes in the central Arctic, *EGU General Assembly, Apr 3-8, Vienna, Austria*
246. Guy, H., R. Neely III, **I. M. Brooks**, V. P. Walden, D. D. Turner, 2022: Fog-aerosol interactions from observations in central Greenland, *QUIESCENT Arctic workshop, Mar 30 – Apr 1, Tromsø, Norway*.

2021

245. Lopez Garcia, V., **I. M. Brooks**, R. Neely III, B. J. Brooks, 2021: An Overview of Low-level Jets Over the Arctic Ocean for a Full Annual Cycle, *Fall Meeting of the AGU, Dec 13-17, New Orleans, USA/online*
244. Young, G., J. Vüllers, P. Achtert, P. Field, E. O'Connor, M. Tjernström, R. Neely III, **I. M. Brooks**, 2021: Evaluating high Arctic clouds modelled with the Met Office Unified Model, *Arctic Frontiers 2021, Feb 1-4, online*.
243. Tjernström, M., G. Svensson, L. Magnusson, **I. M. Brooks**, J. Prytherch, J. Vüllers, G. Young, 2021: Central Arctic Weather Forecasting: Confronting the ECMWF IFS with observations from the Arctic Ocean 2018 expedition, *Arctic Frontiers 2021, Feb 1-4, online*.
242. Elvidge, A. I. A. Renfrew, **I. M. Brooks**, P. Srivastava, M. J. Yelland, J. Prytherch, 2021: Observations of surface heat and moisture exchange over the marginal ice zone and implications for model parameterization, *AMS conference on Air-Sea Interaction, Jan 10-14, Online*.
241. Srivastava, P., **I. M. Brooks**, J. Prytherch, D. J. Salisbury, A. Elvidge, I. A. Renfrew, M. J. Yelland, 2021: Ship-based Estimates of Surface Exchange Coefficients over Sea-ice, *AMS conference on Air-Sea Interaction, Jan 10-14, Online*.
240. Persson, O., B. Blomquist, C. W. Fairall, A. Grachev, **I. M. Brooks**, J. Prytherch, P. Srivastava, C. Cox, M. Shupe, 2021: Turbulent fluxes over new ice in the new Arctic. *AMS conference on Air-Sea Interaction, Jan 10-14, Online*.

2020

239. Frey, M. M., A. Kirchgassner, T. Lachlan-Cope, F. Sagan, M. Radenz, F. Stratmann, A. McFarlane, S. Arndt, K. Nishimura, **I. M. Brooks**, X. Yang, A. E. Jones, 2020: Springtime observations of ice nucleating particles (INP) above Arctic sea ice during MOSAiC, Fall Meeting of the AGU, Dec 1-17, Online.
238. Baccarini, A., L. Larksson, J. Dommen, P. Duplessis, J. Vüllers, **I. M. Brooks**, A. Saiz-Lopez, M. Salter, M. Tjernström, U. Baltensperger, P. Zieger, J. Schmale, 2020: Iodine drives new particle formation in the Central Arctic Ocean, Fall Meeting of the AGU, Dec 1-17, Online.
237. Young, G., J. Vüllers, P. Achtert, P. Field, J. Day, E. O'Connor, **I. M. Brooks**, M. Tjernström, J. Prytherch, Neely III, R., 2020: Evaluating Arctic meteorology modelled with the Unified Model and Integrated Forecasting System, *EGU General Assembly, May 3-9, Vienna, Austria*.

236. Czerski, H., A. Matei, S. Gunn, **I. M. Brooks**, R. Al-Lashi, 2020: Unpicking the details of deep bubble plumes in stormy conditions: bubble populations and plume spatial distributions measured in the North Atlantic during the HiWINGS expedition. *AGU Ocean Sciences Meeting, Feb. 16-21, San Diego, USA.*

2019

235. Price, R., K. Carslaw, **I. M. Brooks**, P. Field, 2019: Arctic Aerosol-Cloud Interactions in Regional and Global Simulations, *Fall Meeting of the AGU, Dec. 9-13, San Francisco, USA*
234. Frey, M., **I. M. Brooks**, S. J. Norris, K. Nishimura, W. R. Simpson, A. E. Jones, 2019: Sea Salt Aerosol from Blowing Snow above Sea Ice - Arctic in situ Observations, *Fall Meeting of the AGU, Dec. 9-13, San Francisco, USA*
233. Prytherch J. et al., 2019: Air-water flux of CO₂ from ice- and ship-based eddy covariance measurements in Arctic sea-ice regions. *Fall Meeting of the AGU, Dec. 9-13, San Francisco, USA*
232. Vüllers, J., **I. M. Brooks**, M. Tjernström, J. Prytherch, P. Achtert, R. Neely, M. Gottschalk, E. Egerer, M. Wendisch, H. Siebert, 2019: The Arctic Boundary Layer during the Arctic Ocean 2018 expedition, *Fall Meeting of the AGU, Dec. 9-13, San Francisco, USA*
231. Young, G., J. Vüllers, P. Achtert, P. Field, J. Day, E. O'Connor, **I. M. Brooks**, M. Tjernström, J. Prytherch, 2019: Evaluating Modelled Arctic Meteorology using Cloudnet, *Fall Meeting of the AGU, Dec. 9-13, San Francisco, USA*
230. Young, G. J. Vüllers, P. Field, **I. M. Brooks**, P. Achtert, M. Tjernström, J. Prytherch, R. Neely III., 2019: Evaluating Arctic meteorology modelled with the Met Office Unified Model, *UK Arctic Science Conference, Sept 11-13, Loughborough, UK.*
229. Vüllers, J, **I. M. Brooks**, M. Tjernström, J. Prytherch, P. Achtert, R. Neely III., 2019: The Arctic boundary layer during the Arctic Ocean 2018 expedition, *UK Arctic Science Conference, Sept 11-13, Loughborough, UK.*
228. Zinke, J., M. Salter, C. Leck, M. Lawler, G. Porter, M. Adams, **I. M. Brooks**, B. Murray, P. Zieger, 2019: A miniaturised balloon-borne cloud water sampler: Development, deployment and chemical analysis of samples obtained in the high Arctic, *European Aerosol Conference, Aug. 25-30, Gothenburg, Sweden.*
227. Zieger, P., L. Karlsson, P. Duplessis, A. Baccarini, J. Zinke, P. Achtert, M. Wheeler, R. Leitch, R. Chang, C. Leck, B. Svenningsson, M. Salter, **I. M. Brooks**, and J. Schmale, 2019: Aerosol-cloud interactions in the high Arctic. *European Aerosol Conference, Aug. 25-30, Gothenburg, Sweden.*
226. **Brooks, I. M.**, 2019: Arctic Clouds - Evaluating modelled cloud with field observation, *Workshop on Observational Campaigns for Better Weather Forecasts, June 10-13, European Centre for Medium Range Weather Forecasting, Reading, UK*
225. Young, G., J. Vüllers, **I. M. Brooks**, M. Tjernström, J. Prytherch, P. Achtert, R. Neely III, G. Porter, B. Murray, 2019: Linking Clouds, Ocean, and Sea Ice in the Arctic: the MOCCHA/ACAS Field Campaign 2018, *Arctic Science Summit Week, May 22-30, Arkhngelsk, Russia.*
224. Prytherch, J., M. Tjernström, **I. M. Brooks**, P. Achtert, B. I. Moat, M. J. Yelland. 2019: Turbulent surface exchange during the Arctic Ocean 2018 expedition. *EGU General Assembly, Apr. 7-12, Vienna, Austria.*
223. **Brooks, I. M.**, M. Tjernström, J. Prytherch, P. Achtert, M. Gottschalk, J. Vüllers, R. Neely III, 2019: The atmospheric boundary layer during the Arctic Ocean 2018 expedition, *EGU General Assembly, Apr. 7-12, Vienna, Austria.*
222. X. Yang, M. M. Frey, R. H. Rhodes, S. J. Norris, **I. M. Brooks**, P. S. Anderson, K. Nishimura, A. E. Jones, E. W. Wolff, 2019: Sea salt aerosol production via sublimating wind-blown saline snow particles over sea-ice, *QuIESCENT Arctic workshop, Apr 4-5, Cambridge, UK.*
221. Price, R., K. Carslaw, **I. M. Brooks**, P. Field, 2019: Clouds and Arctic Climate Change, *QuIESCENT Arctic workshop, Apr 4-5, Cambridge, UK.*
220. Guy, H., R. Neely III, **I. M. Brooks**, K. Carslaw, B. J. Murray, V. P. Walden, M. D. Shupe, D. D. Turner, R. Bennartz, 2019: Summit Aerosol Cloud Experiment (S-ACE), *QuIESCENT Arctic workshop, Apr 4-5, Cambridge, UK.*

219. **Brooks, I. M.** 2019: The Arctic Boundary Layer: Coupling Clouds and Sea Ice, *QuIESCENT Arctic workshop, Apr 4-5, Cambridge, UK*.
218. Renfrew, I.; B. Pickart, K. Våge, K. Moore, T. Lachlan-Cope, A. Elvidge, A. Weiss, J. Reuder, H. Sodemann, A. Terpstra, L. Papritz, G. N. Petersen, C. Barrell, S. Zhou, D. Sergeev, **I. M. Brooks**, T. Bracegirdle, R. Ladkin, J. Pope, E. Kolstad, T. Spengler, 2019: The Iceland Greenland Seas Project: Cold air outbreaks and air-sea-ice interactions, *YOPP Arctic Science Workshop, Jan 14-16, Helsinki, Finland*.
217. Tjernström, M., G. Svensson, J. Prytherch, **I. M. Brooks** 2019: Experiences from Arctic Forecasting during the Arctic Ocean 2016 Expedition, *YOPP Arctic Science Workshop, Jan 14-16, Helsinki, Finland*.

2018

216. Anguelova, M. D., M. H. Bettenhausen, J. Prytherch, S. J. Norris, I. B. Savelyev, **I. M. Brooks**, M. J. Yelland, R. W. Pascal, D. J. Salisbury, 2018: Comparison of in situ and satellite fluxes of sea spray production, *Fall Meeting of the AGU, Dec 10-14, Washington, DC, USA*.
215. Thornton, B. T., J. Prytherch, M. C. Geibel, K. Andersson, **I. M. Brooks**, M. Tjernström, C. Humborg, D. J. Salisbury, and P. M. Crill, 2018: What can measurements near the sea surface tell us about subsea permafrost methane emissions? *Fall Meeting of the AGU, Dec 10-14, Washington, DC, USA*.
214. Yang, M. et al. 2018: Sources of aerosol number near the southwest coast of the United Kingdom - quantification of sea spray and ship emission fluxes. *Fall Meeting of the AGU, Dec 10-14, Washington, DC, USA*
213. P. O. G. Persson, B.J. Brooks, A. Solomon, G. deBoer, J. Intrieri, M. D. Shupe, **I. M. Brooks**, M. Tjernström, J. Inoue, B. Blomquist, and A. Gasiewski, 2018: Mesoscale Structure of Arctic Cyclones and Their Impacts on Sea Ice: Observations From Past Field Campaigns, *Fall Meeting of the AGU, Dec 10-14, Washington, DC, USA*
212. Renfrew, I., B. Pickart, K. Vage, G. W. K. Moore, T. Lachlan-Cope, A. Weiss, A. Elvidge, A. Terpstra, H. Sodemann, J. Reuder, L. Papritz, D. Sergeev, C. Barrell, S. Zhou, T. Bracegirdle, R. Ladkin, N. Petersen, **I. M. Brooks**, J. Pope, E. Kolstad, T. Spengler, 2018: The Iceland Greenland seas Project: Meteorological Highlights, *Polar 2018, Jun 15-26, Davos, Switzerland*.
211. Prytherch, J., **I. M. Brooks**, M. J. Yelland, D. J. Salisbury, B. I. Moat, M. Tjernström, 2018: Surface drag over Arctic sea ice: direct observations from an icebreaker, *Polar 2018, Jun 15-26, Davos, Switzerland*.
210. Prytherch, J. B. F. Thornton, **I. M. Brooks**, K. Andersson, M. Geibel, D. J. Salisbury, P. Crill, M. Tjernström, C. Humborg, 2018: Sea-air flux and transfer velocity of CH₄ / CO₂ measured on the Siberian shelf, *Polar 2018, Jun 15-26, Davos, Switzerland*.
209. Yang, X., M. M. Frey, R. H. Rhodes, S. J. Norris, **I. M. Brooks**, P. S. Anderson, K. Nishimura, A. E. Jones, E. W. Wolff, 2018: Sea-salt Aerosol from Blowing Snow on Sea Ice: A New CCN Source in Polar Regions, *Polar 2018, Jun 15-26, Davos, Switzerland*.

2017

208. Savelyev, I. B., M. H. Bettenhausen, S. J. Norris, **I. M. Brooks**, J. Prytherch, M. D. Anguelova, M. J. Yelland, R. W. Pascal, D. J. Salisbury, 2017: Empirical retrieval of sea spray aerosol production using satellite microwave radiometry. *Fall meeting of the AGU, Dec 11-15, New Orleans, USA*.
207. Tjernström, M., P. Achtert, M. D. Shupe, J. Prytherch, J. Sedlar, B. J. Brooks, **I. M. Brooks**, P. O. G. Persson, D. J. Salisbury, G. Sotiropoulou, 2017: Interactions between summer warm-air advection, melting sea ice and low clouds, *Fall meeting of the AGU, Dec 11-15, New Orleans, USA*.
206. Bell, T. G., M. Yang, F. E. Hopkins, S. J. Norris, **I. M. Brooks**, T. Smyth, 2017: Quantifying ship emissions of sulfur dioxide (SO₂) and aerosols in the English Channel. *Shipping and the environment - from regional to global perspectives, Oct. 24-25, Gothenburg, Sweden*.
205. Yang, X., M. M. Frey, R. H. Rhodes, S. J. Norris, **I. M. Brooks**, P. S. Anderson, K. Nishimura, A. E. Jones, E. W. Wolff, 2017: A missed sea salt aerosol (SSA) CCN source from the sea ice covered zone, *Joint LAPSO-LAMAS-LAGA Assembly, Aug 27 – Sept 1, Cape Town, South Africa*

204. Tjernström, M., **I. M. Brooks**, J. Sedlar, M. Shupe, P. O. G. Persson, J. Prytherch, D. J. Salisbury, P. Achtert, B. J. Brooks, G. Sotiropoulou, P. Johnston, D. Wolfe. 2017: Warm-air advection and clouds over melting Arctic summer sea ice, *EGU General Assembly, Apr. 23-28, Vienna, Austria*.
203. Prytherch, J., **I. M. Brooks**, P. Crill, B. Thornton, D. J. Salisbury, M. Tjernström, L. Anderson, M. C. Geibel, C. Humborg, 2017: Air-sea CO₂ and CH₄ gas transfer velocity in Arctic sea-ice regions from eddy covariance flux measurements onboard Icebreaker Oden, *EGU General Assembly, Apr. 23-28, Vienna, Austria*.
202. Frey, M.M., S. Norris, **I.M. Brooks**, K. Nishimura, P.A. Anderson, S. Palm, A.E. Jones, X. Yang, E. Wolff, 2017: Sea Salt Aerosol from Blowing Snow above Sea Ice – observed evidence of a missing source, *IGAC CATCH Workshop, Mar 19-20, Paris, France*.
201. Shupe, M. D., S. Matrosov, C. Schmitt, **I. M. Brooks**, G. de Boer, D. Dexheimer, H. Telg, M. Maahn, D. Turner, C. Williams, 2017: Enhanced measurements with the ARM tethered balloon system at Oliktok Point, *Atmospheric Radiation Measurement (ARM)/Atmospheric System Research (ASR) Joint User Facility and Principal Investigator meeting, March 13-17, Tysons, Virginia, USA*.
200. Persson, P. O. G., B. Blomquist, P. Guest, **I. M. Brooks**, M. Tjernström, A. Grachev, M. D. Shupe, C. W. Fairall, 2017: Interactions Between the Atmospheric Boundary Layer and the Advancing Autumn Sea Ice, *14th AMS Conference on Polar Meteorology and Oceanography, Jan 22-26, Seattle, USA*.
199. Tjernström, M, **I. M. Brooks**, J. Sedlar, M. D. Shupe, P. O. G. Persson, J. Prytherch, D. J. Salisbury, P. Achtert, B. J. Brooks, G. Sotiropoulou, 2017: Summer atmospheric boundary-layer structure downwind of the ice edge in on-ice advection. *14th AMS Conference on Polar Meteorology and Oceanography, Jan 22-26, Seattle, USA*.
198. Elvidge, A. D., I. A. Renfrew, A. I. Weiss, **I. M. Brooks**, T. Lachlan-Cope, J. C. King, 2017: Observations of Surface Momentum Exchange over the Marginal Ice Zone and Recommendations for Its Parametrisation. *14th AMS Conference on Polar Meteorology and Oceanography, Jan 22-26, Seattle, USA*.

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197. Harlow, C. R., E. W. Blockley, **I. M. Brooks**, R. Essery, S. Milton, I. Renfrew, S. Vosper, 2016: Observations of surface momentum and radiation exchange over snow-covered land and sea ice during YOPP, *Fall Meeting of the AGU, Dec. 12-16, San Francisco, USA*.
196. Prytherch J., **I. M. Brooks**, P. M. Crill, B. F. Thornton, D. J. Salisbury, M. Tjernström, M. C. Geibel, C. Humborg, L. G. Anderson, 2016: Direct Measurement of Air-Sea CO₂ Exchange from an Icebreaker in Arctic Sea Ice Regions. *Fall Meeting of the AGU, Dec. 12-16, San Francisco, USA*.
195. Yang, X., M. Frey, R. Rhodes, S. J. Norris, **I. M. Brooks**, P. Anderson, K. Nishimura, A. Jones, E. Wolff, 2016: A newly identified sea salt aerosol source over sea ice and its indications to climate, *Fall Meeting of the AGU, Dec. 12-16, San Francisco, USA*.
194. Blomquist, B., et al. Effects of Sea State and Wind Speed on Air-Sea Gas Exchange: Results from the 2013 HiWinGS Project, *Fall Meeting of the AGU, Dec. 12-16, San Francisco, USA*.
193. Persson, P. O. G., B. W. Blomquist, P. S. Guest, C. W. Fairall, **I. M. Brooks**, J. Sedlar, J. Prytherch, D. J. Salisbury, G. Bjork, S. Stammerjohn, G. Sotiropoulou, M. Tjernstrom, and J. Inoue, 2016: Surface Energy Fluxes During Arctic Freeze-Up, *AMS Conf. On Air-Sea Interaction, August 15-19, Madison, Wisconsin, USA*.
192. Salisbury, D.J., **I. M. Brooks**, J. Prytherch, B. I. Moat, B. J. Brooks, J. Sedlar, G. Sotiropoulou, M. Tjernström, P. O. G. Persson, M. Shupe, and P. Achtert, 2016: In Situ Measurements of Surface Turbulent Exchange Over Arctic Sea Ice: Results from the ACSE Campaign. *AMS Conf. On Air-Sea Interaction, August 15-19, Madison, Wisconsin, USA*.
191. Bettenhausen, M. H., J. Prytherch, M. D. Anguelova, **I. M. Brooks**, S. J. Norris, I. B. Savelyev, M. J. Yelland, R. W. Pascal, D. J. Salisbury, 2016: Empirical model for sea spray production. *AMS Conf. On Air-Sea Interaction, August 15-19, Madison, Wisconsin, USA*.
190. Achtert, P., E. O'Connor, **I. M. Brooks**, G. Sotiropoulou, J. Sedlar, M. Tjernström, B. J. Brooks, P. O. G. Persson, J. Prytherch, D. J. Salisbury, M. D. Shupe, P. E. Johnston, D. Wolfe, 2016:

Characterisation of clouds during ACSE 2014. *International Conference on Clouds and Precipitation, 25-29 July, Manchester.*

189. Yang, X., M.M. Frey, **I.M. Brooks**, S. J. Norris, P.A. Anderson, A.E. Jones, E.W. Wolff and M. Legrand, 2016: A newly identified sea salt aerosol over sea ice-modelling vs observation. *International Conference on Clouds and Precipitation, 25-29 July, Manchester.*
188. Jansen, R. A., **I. M. Brooks**, and J. S. Dobbie, 2016: Radiatively driven in-cloud turbulence and cloud-surface turbulent coupling in Arctic Stratocumulus, *International Conference on Clouds and Precipitation, 25-29 July, Manchester.*
187. Thornton, B. F., P. M Crill, K. Andersson, M. Wik, C. Sapart; J. Prytherch, **I. M. Brooks**, D. J. Salisbury, M. Tjernström; 2016: Methane isotopologues and eddy covariance fluxes above the mid and outer Laptev and East Siberian Seas during SWERUS-C3, *International Conference on Permafrost 2016, 20-24 June, Potsdam, Germany.*
186. Brumer, S. E., C. Zappa, C. W. Fairall, B. Blomquist, **I. M. Brooks**, and M. Yang, 2016: Gas transfer under high wind and its dependence on wave breaking and sea state, *EGU General Assembly, April 17-22, Vienna, Austria.*
185. Persson, P. O. G., B. Blomquist, P. Guest, C.W. Fairall, S. Stammerjohn, **I.M. Brooks**, G. Björk, M. Tjernström, and J. Inoue, 2016: Surface Energy Fluxes During Arctic Freeze-Up, *EGU General Assembly, April 17-22, Vienna, Austria.*
184. Tjernström, M., G. Sotiropoulou, J. Sedlar, P. Achtert, B.J. Brooks, **I.M. Brooks**, P.O.G. Persson, J. Prytherch, D.J. Salisbury, M.D. Shupe, P. Johnston, and D. Wolfe, 2016: Contrasting sea-ice and open-water boundary layers during melt and freeze-up seasons: Some result from the Arctic Clouds in Summer Experiment, *EGU General Assembly, April 17-22, Vienna, Austria.*
183. Yang, X., M.M. Frey, **I. M. Brooks**, S. J. Norris, P.A. Anderson, A.E. Jones, E.W. Wolff and M. Legrand, 2016: Sea salt aerosol from blowing snow on sea ice – modelling vs. observation, *EGU General Assembly, April 17-22, Vienna, Austria.*
182. Wilson, T.W., L.A. Ladino, P.A. Alpert, R. Chance M.N. Breckels, **I.M. Brooks**, J. Browse, S. Burrows, K. Carslaw, L. Carpenter, J. Hamilton, J.A. Huffman, C. Judd, W.P. Kilhau, R.H. Mason, G. McFiggans, L.A. Miller, J. Najera, E. Polishchuk, S. Rae, C.L. Schiller, M. Si, J. Vergara Temprado, T.F. Whale, J.P.S. Wong, O. Wurl, J.D. Yakobi-Hancock, J.P.D. Abbatt, J.Y. Aller, A.K. Bertram, D.A. Knopf and B.J. Murray, 2016: A marine biogenic source of atmospherically relevant ice nucleating particles, *EGU General Assembly, April 17-22, Vienna, Austria.*
181. Yang, X., M. M. Frey, S. J. Norris, **I. M. Brooks**, P. A. Anderson, A. E. Jones, E. W. Wolff, 2016: A large sub-micrometer sea-salt aerosol (SSA) source over sea ice and related mechanism, *NCAS 6th Annual Composition-Climate Interaction Meeting, 13-14 April, Cambridge, UK.*
180. Wilson, T. W., L. A. Ladino, P. A. Alpert, M. N. Breckels, **I. M. Brooks**, J. Browse, S. M. Burrows, K. S. Carslaw, J. A. Huffman, C. Judd, W. P. Kilhau, R. H. Mason, G. McFiggans, L. A. Miller, J. Najera, E. Polishchuk, S. Rae, C. L. Schiller, M. Si, J. Vergara Temprado, T.F. Whale, J.P.S. Wong, O. Wurl, J. D. Yakobi-Hancock, J. P. D. Abbatt, J. Y. Aller, A. K. Bertram, D. A. Knopf, and B. J. Murray, 2016: A marine biogenic source of atmospherically relevant ice nucleating particles, *AGU Ocean Sciences Meeting, 21-26 February, New Orleans, Louisiana, USA.*
179. Salisbury, D. J., **I. M. Brooks**, J. Prytherch, B. I. Moat, B. J. Brooks, P. Achtert, J. Sedlar, M. Tjernström, G. Sotiropoulou, P. O. G. Persson, M. D. Shupe, P. Johnston, D. Wolfe, 2016: In Situ Measurement of Surface Turbulent Exchange Over Arctic Sea Ice , *AGU Ocean Sciences Meeting, 21-26 February, New Orleans, Louisiana, USA.*
178. Prytherch, J, M. J. Yelland, **I. M. Brooks**, D. J. Tupman, R. W. Pascal, B. I. Moat, S. J. Norris, 2016: Motion-correlated flow distortion and wave-induced biases in air-sea flux measurements from ships. *AGU Ocean Sciences Meeting, 21-26 February, New Orleans, Louisiana, USA.*
177. Brumer, S. E., C. J. Zappa, C. W. Fairall, B. Blomquist, **I. M. Brooks**, H. Tamura, M. Yang, B. J. Huebert, 2016: Observations of whitecaps during HiWinGS, their dependence on wave field, and relation to gas transfer velocities, *AGU Ocean Sciences Meeting, 21-26 February, New Orleans, Louisiana, USA.*

176. Frey, M., S. J. Norris, **I. M. Brooks**, K. Nishimura, A. Jones, 2015: Arctic Sea Salt Aerosol from Blowing Snow and Sea Ice Surfaces – a Missing Natural Source in Winter, *Fall Meeting of the AGU, Dec. 14-18, San Francisco, USA*.
175. Browse, J., K. Carslaw, C. Reddington, K. Pringle, G. Mann, **I. M. Brooks**, J. Mulcahy, G. Young, J. Allan, D. Liu, J. Trembath, A. Dean, M. Yoshioka, 2015: Understanding the Processes Controlling Aerosol-Cloud Interactions in the Arctic Marine Boundary Layer, *Fall Meeting of the AGU, Dec. 14-18, San Francisco, USA*.
174. Geibel, M. C., B. Thornton, J. Prytherch, **I. M. Brooks**, D. J. Salisbury, M. Tjernström, I. Semiletov, C.-M. Mörrth, C. Humborg, P. Crill, 2015: Characterization of sea-air methane fluxes around a seafloor gas seep in the central Laptev Sea. *Fall Meeting of the AGU, Dec. 14-18, San Francisco, USA*
173. Reid, J. S., A. Benedetti, A. Bozzo, **I. M. Brooks**, M. Brooks, J. Browse, O. Colarco, A. daSilva, M. Flatau, R. Kueh, J. Hansen, R. Holz, K. Kaku, P. Lynch, J. Rubin, T. Sekiyama, T. Tanaka, J. Zhang, 2015: Propagation of global model uncertainties to aerosol forecasting: A field practitioner's opinion, *Fall Meeting of the AGU, Dec. 14-18, San Francisco, USA*
172. Achtert, P., G. Sotiropoulou, **I. M. Brooks**, B. J. Brooks, P. Johnston, P. O. G. Persson, J. Prytherch, D. Salisbury, J. Sedlar, M. Tjernström, D. Wolfe, M. Shupe, 2015: Observations of Arctic boundary layer cloud during ACSE 2014, *Fall Meeting of the AGU, Dec. 14-18, San Francisco, USA*.
171. Salisbury, D. J., **I. M. Brooks**, J. Prytherch, B. I. Moat, B. J. Brooks, P. Achtert, J. Sedlar, M. Tjernström, G. Sotiropoulou, P. O. G. Persson, M. D. Shupe, P. Johnston, D. Wolfe, 2015: In situ measurement of the drag coefficient over Arctic sea ice, *Fall Meeting of the AGU, Dec. 14-18, San Francisco, USA*.
170. **Brooks, I. M.**, S. J. Norris, M. J. Yelland, R. W. Pascal, J. Prytherch, 2015: Eddy covariance measurements of the sea-spray aerosol flux. *Fall Meeting of the AGU, Dec. 14-18, San Francisco, USA. (Invited talk)*
169. Wilson, T. W., L. A. Ladino, P. A. Alpert, M. N. Breckels, **I. M. Brooks**, J. Browse, S. M. Burrows, K. S. Carslaw, J. A. Huffman, C. Judd, W. P. Kilitau, R. H. Mason, G. McFiggans, L. A. Miller, J. Najera, E. Polishchuk, S. Rae, C. L. Schiller, M. Si, J. Vergara Temprado, T.F. Whale, J.P.S. Wong, O. Wurl, J. D. Yakobi-Hancock, J. P. D. Abbatt, J. Y. Aller, A. K. Bertram, D. A. Knopf, and B. J. Murray, 2015: A marine biogenic source of atmospherically relevant ice nucleating particles, 2015: *The Aerosol Society Annual Conference, 12 November, Birmingham, UK*.
168. Renfrew, I., A. Elvidge, A. Weiss, **I. M. Brooks**, J. King, T. Lachlan-Cope, 2015: Observations of surface momentum exchange over the marginal-ice-zone and recommendations for its parameterization, 2015: *UK Sea-Ice Group Annual Meeting, Sept 15-16, Sheffield, UK*.
167. Carpenter, L., R. Chance, S. Andrews, S. Hackenberg, J. Hamilton, C. Hughes, C. Deal, H. Bouman, A. Small, **I. Brooks**, J. Allan, G. McFiggans, 2015: DMS and other gaseous aerosol precursors in the Arctic Ocean during the ACCACIA project, *UK Arctic Science Conference, Sept 16-18, Sheffield, UK*.
166. **Brooks I. M.**, M. Tjernström, M. D. Shupe, P. O. G. Persson, B. J. Brooks, D. J. Salisbury, P. Achtert, J. Prytherch, J. Sedlar, G. Sotiropoulou, P. E. Johnston, D. Wolfe. 2015: The Arctic Cloud Summer Experiment (ACSE), *UK Arctic Science Conference, Sept 16-18, Sheffield, UK*.
165. Frey, M., S. J. Norris, **I. M. Brooks**, K. Nishimura, A. E. Jones, 2015: Arctic sea salt aerosol from blowing snow and sea ice surfaces –the search for a missing source in winter, *UK Arctic Science Conference, Sept 16-18, Sheffield, UK*.
164. Yang, M. B. W. Blomquist, S. J. Norris, J. Prytherch, **I. M. Brooks**, P. D. Nightingale, 2015: Atmosphere-ocean gas transfer at high wind speeds – the air-side perspective. *SOLAS Open Science Conference, Sept 7-11, Kiel, Germany*.
163. Wilson, T. W., L. A. Ladino, P. A. Alpert, M. N. Breckels, **I. M. Brooks**, J. Browse, S. M. Burrows, K. S. Carslaw, J. A. Huffman, C. Judd, W. P. Kilitau, R. H. Mason, G. McFiggans, L. A. Miller, J. Najera, E. Polishchuk, S. Rae, C. L. Schiller, M. Si, J. Vergara Temprado, T. F. Whale, J. P. S. Wong, O. Wurl, J. D. Yakobi, Hancock, J. P. D. Abbatt, J. Y. Aller, A. K. Bertram, D. A.

- Knopf, and B. J. Murray 2015: A marine source of biogenic atmospheric ice nucleating particles, *European Aerosol Conference, Sept 6-11, Milan, Italy.*
162. T.W. Wilson, L.A. Ladino, P.A. Alpert, M.N. Breckels, **I.M. Brooks**, J. Browse, S. Burrows, K. Carslaw, J.A. Huffman, C. Judd, W.P. Kilhau, R.H. Mason, G. McFiggans, L.A. Miller, J. Najera, E. Polishchuk, S. Rae, C.L. Schiller, M. Si, J. Vergara Temprado, T.F. Whale, J.P.S. Wong, O. Wurl, J.D. Yakobi-Hancock, J.P.D. Abbatt, J.Y. Aller, A.K. Bertram, D.A. Knopf, and B.J. Murray, 2015: A marine biogenic source of atmospherically relevant ice nucleating particles, *IUGG General Assembly, June 22-July 2, Prague, Czech Republic*
 161. Persson, P. O. G., P. Achtert, G. Björk, B. J. Brooks, **I. M. Brooks**, P. Johnston, J. Prytherch, D. J. Salisbury, J. Sedlar, M. D. Shupe, G. Sotiropoulou, M. Tjernström, and D. Wolfe, 2015: Atmosphere-Ice-Ocean Interactions During Summer Melt and Early Autumn Freeze-up: Observations from the ACSE Field Program. *49th CMOS Congress & 13th AMS Conference on Polar Meteorology and Oceanography, May 31-June 4, Whistler, Canada.*
 160. Davies, R., I. Renfrew, R. Von Glasow, J. King, **I. M. Brooks**, 2015: Title: Modeling the atmospheric boundary-layer of the marginal ice zone: an ACCACIA case study. *49th CMOS Congress & 13th AMS Conference on Polar Meteorology and Oceanography, May 31-June 4, Whistler, Canada.*
 159. Huebert, B. J., B. W. Blomquist, J. Hare, C. Fairall, L. Bariteau, C. J. Zappa, S. Brumer, **I. M. Brooks**, M. Amison, R. Pascal, M. Yelland, S. Pepe, H. Cerski, A. Matei, M. X. Yang, M. Kim, T. Bertram. 2015: Observations from the High Wind Gas Exchange Study (HiWinGS): Gas transfer in the Labrador Sea at wind speeds above 15 m s⁻¹. *7th International Symposium on Gas Transfer at Water Surfaces, May 18-21, Seattle, Washington.*
 158. Brumer, Sophia E., Christopher J. Zappa, Chris Fairall, Ludovic Bariteau, Byron Blomquist, Mingxi Yang, **Ian M. Brooks**, and Barry Huebert, 2015: Wave breaking and sea state dependence of gas transfer velocities, *7th International Symposium on Gas Transfer at Water Surfaces, May 18-21, Seattle, Washington.*
 157. P. Ola G. Persson, Matthew D. Shupe, Michael Tjernström, Joseph Sedlar, **Ian M. Brooks**, Barbara J. Brooks, Göran Björk, John Prytherch, Dominic J. Salisbury, Peggy Achtert, Georgia Sotiropoulou, Paul Johnston, and Daniel Wolfe, 2015: Atmosphere-Ice-Ocean Interactions During Summer Melt and Early Autumn Freeze-up: Observations from the ACSE Field Program, *Fourth International Symposium on Arctic Research (ISAR-4), April 27-30, Toyama, Japan.*
 156. Tjernström, M., B. J. Brooks, **I. M. Brooks**, P. Johnston, P. O. G. Persson, J. Prytherch, D. J. Salisbury, J. Sedlar, M. D. Shupe, G. Sotiropoulou, and D. Wolfe 2015: Atmospheric observations during the Arctic Clouds in Summer Experiment (ACSE). *EGU General Assembly, April 12-17, Vienna, Austria.*
 155. Tjernström, M., M. D. Shupe, P. Achtert, B. J. Brooks, **I. M. Brooks**, P. Johnston, P. O. G. Persson, J. Prytherch, D. J. Salisbury, J. Sedlar, G. Sotiropoulou, and D. Wolfe. 2015: The "blob of death", or how warm air advection causes rapid ice melt, *EGU General Assembly, April 12-17, Vienna, Austria.*
 154. Persson, P. O. G., B. J. Brooks, M. Tjernström, J. Sedlar, **I. M. Brooks**, M. D. Shupe, G. Björck, J. Prytherch, D. J. Salisbury, P. Achtert, G. Sotiropoulou, P. Johnston, and D. Wolfe 2015: Atmosphere-Ice-Ocean Interactions During Early Autumn Freeze-up: Boundary-Layer and Surface Observations from the ACSE Field Program, *EGU General Assembly, April 12-17, Vienna, Austria.*
 153. Murray, B., T. Wilson, L. Ladino, P. Alpert, M. Breckels, **I. M. Brooks**, J. Huffman, C. Judd, W. Kilhau, R. Mason, G. McFiggans, L. Mille, J. Najera, E. Polishchuk, S. Rae, S. Corinne, M. Si, T. Whale, J. Wong, O. Wurl, J. Yakobi, J. Abbatt, J. Aller, A. Bertram, D. Knopf, 2015: Atmospheric ice nucleating particles from the sea surface microlayer. *249th ACS National Meeting & Exposition, March 22-26, Boston, USA.*
 152. Sotiropoulou, G., M. Tjernström, M. D. Shupe, P. O. G. Persson, **I. M. Brooks**, R. Forbes, 2015: Summer Arctic low-level clouds and their dynamic coupling to the surface, *Workshop on Dynamics of Atmosphere-Ice-Ocean Interactions in the High-Latitudes, March 23-27, Rosendal, Norway.*

151. Persson, P.O.G., Matthew D. Shupe, Michael Tjernström, Joseph Sedlar, **Ian M. Brooks**, Barbara J. Brooks, Göran Björk, John Prytherch, Dominic J Salisbury, Peggy Achtert, Georgia Sotiropoulou, Paul Johnston, and Daniel Wolfe. 2015: Atmosphere-Ice-Ocean Interactions During Summer Melt and Early Autumn Freeze-up: Observations from the ACSE field program. *Workshop on Dynamics of Atmosphere-Ice-Ocean Interactions in the High-Latitudes, March 23-27, Rosendal, Norway.*
150. **Brooks, Ian, M.**, John Prytherch, Dominic J Salisbury, Barbara J. Brooks, Peggy Achtert, Joseph Sedlar, Michael Tjernström, Georgia Sotiropoulou, P. Ola G. Persson, Matthew D. Shupe, Paul Johnston, Daniel Wolfe, Ben Moat, 2015: In situ measurements of surface exchange over the Arctic Ocean. *Workshop on Dynamics of Atmosphere-Ice-Ocean Interactions in the High-Latitudes, March 23-27, Rosendal, Norway.*
149. Brooks, Barbara, J., Peggy Achtert, **Ian M. Brooks**, John Prytherch, Dominic J Salisbury, Joseph Sedlar, Michael Tjernström, Georgia Sotiropoulou, P. Ola G. Persson, Matthew D. Shupe, Paul Johnston, Daniel Wolfe, 2015: Interactions between Arctic clouds, boundary-layer structure, and surface conditions over the Arctic Ocean. *Workshop on Dynamics of Atmosphere-Ice-Ocean Interactions in the High-Latitudes, March 23-27, Rosendal, Norway.*
148. Salisbury, Dominic J., John Prytherch, Michel C. Tsamados, **Ian M. Brooks**, Barbara J. Brooks, Peggy Achtert, Joseph Sedlar, Michael Tjernström, Georgia Sotiropoulou, P. Ola G. Persson, Matthew D. Shupe, Paul Johnston, Daniel Wolfe, 2015, Evaluating surface flux parameterizations over Arctic sea ice. *Workshop on Dynamics of Atmosphere-Ice-Ocean Interactions in the High-Latitudes, March 23-27, Rosendal, Norway.*
147. Achtert, Peggy, Dominic J. Salisbury, John Prytherch, Joseph Sedlar, Georgia Sotiropoulou, Michael Tjernström, Barbara J. Brooks, **Ian M. Brooks**, Matthew D. Shupe, P. Ola G. Persson, Paul Johnston, Daniel Wolfe, 2015: Observations of the Arctic boundary layer during ACSE 2014. *Workshop on Dynamics of Atmosphere-Ice-Ocean Interactions in the High-Latitudes, March 23-27, Rosendal, Norway.*
146. Prytherch, J., **I. M Brooks**, S. J. Norris, M. J. Amison, A. Prytherch, J. Talib, B. Blomquist, L. Bariteau, H. Czerski, C. W. Fairall, J. Hare, A.-V. Matei, R. Pascal, M. J. Yelland., 2015: Air-sea Aerosol Flux and Sea State Measurements During HiWinGS, *AMS 19th Conference on Air-Sea Interaction, January 4-8, Phoenix, AZ, USA.*
145. Sarah J. Norris, **I. M. Brooks**, B. I. Moat, R. W. Pascal, J. Prytherch, D. J. Tupman, and M. J. Yelland, 2015: The Influence Of Sea State On The Generation Of Sea Spray Aerosol During WAGES, *AMS 19th Conference on Air-Sea Interaction, January 4-8, Phoenix, AZ, USA.*
144. Brumer, Sophia E., Christopher J. Zappa, Chris Fairall, Ludovic Bariteau, Byron Blomquist, Ming Xi-Yang and **Ian Brooks**, 2015: Wave breaking and sea state dependence of transfer velocities, *AMS 19th Conference on Air-Sea Interaction, January 4-8, Phoenix, AZ, USA.*
143. Amison, Matthew J., **Ian M. Brooks**, Robin W. Pascal, Mingxi Yang, Ludovic Bariteau, Byron Blomquist, Barry Huebert, Chris W Fairall, Jeff Hare, Adrian Matei, Helen Czerski, John Prytherch, Sarah Norris, Margaret Yelland, Amy Prytherch, Rebecca Jansen, 2015: HiWinGS Observations: Whitecap Fraction and Sea State, *AMS 19th Conference on Air-Sea Interaction, January 4-8, Phoenix, AZ, USA.*
142. Amison, Matthew J., **Ian M. Brooks**, Robin W. Pascal, Mingxi Yang, Ludovic Bariteau, Byron Blomquist, Barry Huebert, Chris W Fairall, Jeff Hare, Adrian Matei, Helen Czerski, John Prytherch, Margaret Yelland, Sarah Norris, 2015: HiWinGS Buoy Measurements of Wave Statistics and Energy Spectra. *AMS 19th Conference on Air-Sea Interaction, January 4-8, Phoenix, AZ, USA.*
141. Salisbury, D., **I. M. Brooks**, J. Prytherch, B. J. Brooks, J. Sedlar, G. Sotiropoulou, M. Tjernström, P. O. G. Persson, M. D. Shupe, B. I. Moat, P. Achtert, 2015: Characterising surface conditions during the Arctic Cloud in Summer Experiment (ACSE), *AMS 19th Conference on Air-Sea Interaction, January 4-8, Phoenix, AZ, USA.*
140. **Brooks, I. M.**, J. Prytherch, D. J. Salisbury, B. J. Brooks, J Sedlar, G. Sotiropoulou, M. Tjernström, P. O. G. Persson, M. D. Shupe, P. M. Crill, B. F. Thornton, B. I. Moat, P. Achtert,

2015: Surface Turbulent Exchange over the Arctic Ocean – Measurements from the SWERUS-C3 / ACSE Project, *AMS 19th Conference on Air-Sea Interaction, January 4-8, Phoenix, AZ, USA*.

139. Czerski, H., A. Matei, S. Gunn, R. Al-Lashi, R. Pascal, N. Hall-Patch, **I. M. Brooks**, M. Amison, 2015: Bubble plume structure: a comparison of data from the HiWINGS cruise with past measurements, *AMS 19th Conference on Air-Sea Interaction, January 4-8, Phoenix, AZ, USA*.
138. Matei, A., H. Czerski, S. Gunn, R. Al-Lashi, R. Pascal, N. Hall-Patch, **I. M. Brooks**, M. Amison, B. Blomquist, L. Bariteau: 2015, Comparison of bubble plume data with foam measurements, gas flux data and aerosol measurements, *AMS 19th Conference on Air-Sea Interaction, January 4-8, Phoenix, AZ, USA*.
137. Wilson, T. W., L. A. Iadino, P. A. Alpert, T. F. Whale, J. P. D. Abbatt, J. Y. Aller, A. K. Bertram, M. Breckels, C. Judd, D. A. Knopf, R. H. Mason, L. Miller, E. Polishchuk, C. L. Schiller, M. Si, W. Kilhau, J. P. S. Wong, O. Wurl, J. D. Yakobi-Hancock, **I. M. Brooks** and B. J. Murray, 2015: Ice nuclei in the sea surface microlayer, *AMS 19th Conference on Air-Sea Interaction and 7th Symposium on Aerosol-Cloud-Climate Interactions, January 4-8, Phoenix, AZ, USA*.

2014

136. Iadino, L. A., T. W. Wilson, P. A. Alpert, J. Y. Aller, A. K. Bertram, M. Breckels, **I. M. Brooks**, J. A. Huffman, C. Judd, W. P. Kilhau, D. A. Knopf, J. Li, R. H. Mason, L. A. Miller, B. J. Murray, E. Polishchuk, C. L. Schiller, M. Si, T. F. Whale, J. P. S. Wong, O. Wurl, J. D. Yakobi-Hancock, and J. P. D. Abbatt, 2014: Ice nucleating abilities of coastal and sea surface microlayer aerosol particles, *Fall Meeting of the American Geophysical Association, December 15-19, San Francisco, CA., USA*.
135. X. Yang, M. M. Frey, J. G. Levine, **I. M. Brooks**, P. A. Anderson, A. E. Jones, E. W. Wolff, 2014: Refining the parameterisation of sea salt aerosol production from blowing snow on sea ice based on data collected in the Weddell Sea, *Fall Meeting of the American Geophysical Association, December 15-19, San Francisco, CA., USA*.
134. M. M. Frey, **I. M. Brooks**, P. A. Anderson, K. Nishimura, X. Yang, A. E. Jones, E. Wolff, 2014: Evidence for a significant source of polar sea salt aerosol from blowing snow above sea ice in the Southern Ocean, *Fall Meeting of the American Geophysical Association, December 15-19, San Francisco, CA., USA*.
133. Yang, X., M. M. Frey, J. G. Levine, **I. M. Brooks**, P. A. Anderson, A. E. Jones, E. W. Wolff, 2014: Refining the parameterization of sea salt aerosol production from blowing snow on sea ice -based on data collected in the Weddell Sea. *Workshop on Chemical Atmosphere-Snow-Sea Ice Interactions: taking the next big step in the field, lab & modelling, 13-15 October, Cambridge, UK*.
132. Bauguitte, S. J.-B., A. Wellpott, J. D. Lee, **I. M. Brooks**, 2014: FAAM's aircraft Arctic capability: airborne measurements over the SIZ around Svalbard during the ACCACIA 2013 project, *Workshop on Chemical Atmosphere-Snow-Sea Ice Interactions: taking the next big step in the field, lab & modelling, 13-15 October, Cambridge, UK*.
131. Elvidge, A. D., A. I. Weiss, I. Renfrew, **I. M. Brooks**, B. Brooks, T. Lachlan-Cope, J. C. King, A. Kirchgassner, K. N. Bower, M. Gallagher, J. Dorsey, and P. A. Barrett, 2014; Aircraft-based observations of turbulence fluxes over the Arctic marginal ice zone, *World Weather Open Science Conference, August 16 - 21, Montréal, Canada*.
130. Fairall, C. W., B. Huebert, **I. M. Brooks**, J. Hare, 2014: New Direct Observations of air-sea fluxes off Greenland: The HiWinGS Project, *World Weather Open Science Conference, August 16 - 21, Montréal, Canada*.
129. Tupman, D. J., **I. M. Brooks**, M. J. Yelland, R. W. Pascal, J. Prytherch, B. I. Moat, and S. J. Norris, 2014: Motion correlated flow distortion of ship-based eddy covariance measurements, *AMS 20th Conference on Boundary Layers and Turbulence, June 9-13, Leeds, UK*.
128. Amison, M. J., **I. M. Brooks**, R. W. Pascal, M. Yang, L. Bariteau, B. Blomquist, B. Huebert, C. W. Fairall, J. Hare, H. Czerski, A.-V. Matei. 2014: The impact of wave state and breaking on air-sea fluxes: measurements from the HiWinGS campaign, *AMS 20th Conference on Boundary Layers and Turbulence, June 9-13, Leeds, UK*.

127. Garcia-Carreras, L., D. J. Parker, J. H. Marsham, P. D. Rosenberg, **I. M. Brooks**, A. Lock, F. Marengo, J. B. McQuaid, and M. Hobby The vertical structure of the Saharan atmospheric boundary layer: insights from a large eddy model and observations, *AMS 20th Conference on Boundary Layers and Turbulence, June 9-13, Leeds, UK.*
126. Garcia-Carreras, L., D. J. Parker, J. H. Marsham, P. D. Rosenberg, **I. M. Brooks**, A. P. Lock, F. Marengo, J. B. McQuaid, and M. Hobby, 2014: Boundary layer top detrainment and its impact on boundary layer growth in the Sahara, *AMS 20th Conference on Boundary Layers and Turbulence, June 9-13, Leeds, UK.*
125. Kirchgaessner, A., T. A. Lachlan-Cope, B. J. Brooks, **I. M. Brooks**, J. Dorsey, V. Hamilton-Morris, and A. I. Weiss, 2014: Cloud and Aerosol Measurements with the MASIN Twin Otter during ACCACIA Field Campaigns 2013, *AMS 20th Conference on Boundary Layers and Turbulence, June 9-13, Leeds, UK.*
124. Elvidge, A. D., A. I. Weiss, I. Renfrew, **I. M. Brooks**, B. Brooks, T. Lachlan-Cope, J. C. King, A. Kirchgaessner, K. N. Bower, M. Gallagher, J. Dorsey, and P. A. Barrett, 2014; Aircraft-based observations of turbulence fluxes over the Arctic marginal ice zone, *AMS 20th Conference on Boundary Layers and Turbulence, June 9-13, Leeds, UK.*
123. Rosenberg, P. D., D. J. Parker, C. L. Ryder, J. H. Marsham, L. Garcia-Carreras, J. R. Dorsey, **I. M. Brooks**, A. R. Dean, J. Crosier, J. B. McQuaid, R. Washington, 2014: Quantifying Particle Size and Turbulent Scale Dependence of Dust Uplift in the Sahara Using Aircraft Measurements, *AMS 20th Conference on Boundary Layers and Turbulence, June 9-13, Leeds, UK.*
122. Jansen, R. A. , **I. M. Brooks**, M. D. Shupe, J. Sedlar, M. Tjernström, P. O. G. Persson, J. S. Dobbie, 2014: Radiatively driven in-cloud turbulence and cloud-surface coupling in Arctic Stratocumulus, *AMS 20th Conference on Boundary Layers and Turbulence, June 9-13, Leeds, UK.*
121. Davies, R., I. Renfrew, R. von Glasow, J. King, **I. M. Brooks**, 2014: Modelling the atmospheric boundary-layer of the marginal ice zone: an ACCACIA case study, *AMS 20th Conference on Boundary Layers and Turbulence, June 9-13, Leeds, UK.*
120. Norris, S. J., **I. M. Brooks**, D. J. Salisbury, 2014: A wave roughness Reynolds number parameterization of the sea spray source flux, *AMS 20th Conference on Boundary Layers and Turbulence, June 9-13, Leeds, UK.*
119. Tjernström, M, J. Sedlar, **I. M. Brooks**, P. O. G. Persson, M. Shupe, 2014: Arctic mixed-phase summer clouds: Lessons from ASCOS, *EGU General Assembly, 27 April – 02 May, Vienna, Austria.*
118. Sotiropoulou, G., J. Sedlar, M. Tjernström, M. Shupe, **I. M. Brooks**, P. O. G. Persson, 2014: The thermodynamic structure of summer Arctic stratocumulus and the dynamic coupling to the surface, *EGU General Assembly, 27 April – 02 May, Vienna, Austria.*
117. Frey, M. M., P. A. Anderson, **I. M. Brooks**, K. Nishimuraa, A. E. Jones, E. Wolff, 2014: On the significance of blowing snow above sea ice as a source of polar sea salt aerosol. *International Glaciological Society International Symposium on Sea Ice in a Changing Environment, 9-14 March, Hobart, Australia.*
116. Blomquist B., B. Huebert, C. W. Fairall, J. Hare, **I. M. Brooks**, 2014: HiWinGS – Recent results from a high wind gas exchange study in the Labrador Sea, *AGU Ocean Sciences Meeting, 23-28 Feb. Honolulu, Hawaii, USA*
115. Salisbury, D. J., M. D. Anguelova, **I. M. Brooks**, 2014: A global study of whitecap fraction and its variability using satellite-based observations, *AGU Ocean Sciences Meeting, 23-28 Feb. Honolulu, Hawaii, USA.*

2013

-
114. Weiss, A., V. Hamilton-Morris, J. King, A. Kirchgaessner, T. Lachlan-Cope, R. Ladkin, B. J. Brooks and **I. M. Brooks**, Atmospheric boundary layer observations over Arctic sea ice around

Spitsbergen in the scope of the ACCACIA project, *UK Arctic Science Conference, 18-20 Sept. Cambridge, UK.*

113. Kirchgassner, A., K. Bower, B. J. Brooks, **I. M. Brooks**, J. Dorsey, V. Hamilton-Morris, J. King, T. Lachlan-Cope, R. Ladkin, A. Weiss, 2013: Cloud and aerosol measurements made during the ACCACIA by a Twin Otter aircraft, *UK Arctic Science Conference, 18-20 Sept. Cambridge, UK.*
112. Davies, R. R. A. Jansen, **I. M. Brooks**, I. A. Renfrew, J. Browse., 2013: An overview of the atmospheric boundary-layer above the marginal ice zone during ACCACIA, *UK Arctic Science Conference, 18-20 Sept. Cambridge, UK.*
111. **Brooks, I. M.**, Brooks, B. J., Carslaw, K. S., Jansen, R. A., Browse, J., Dobbie, J. S. E., Baustian, K. J., McQuaid, J. B., Murray, B. J., Wilson, T. W., Renfrew, I. A., Elvidge, A., Davies, R., Gallagher, M. W., Bower, K. N., Choularton, T. W., Connolly, P. J., Crosier, J., Jones, H., McFiggans, G., Allan, J. D., Najera, J., Whitehead, J., Darbyshire, E., Dorsey, J. R., Coe, H., Crawford, I. P., Flynn, M. J., Taylor, J., Lloyd, G., Carpenter, L. J., Lee, J. D., Chance, R., Hopkins, J. R., Hamilton, J. F., Hughes, C., Andrews, S., Minaeian, J., King, J. C., Lachlan-Cope, T. A., Weiss, A., Kirchgassner, A., Ladkin, R. S., Milton, S. F., Edwards, J. M., Barrett, P., Brown, P. R. A., Ridley, J. K., Lock, A. P., Field, P. R., 2013: The ACCACIA Project – Aerosol-Cloud Coupling And Climate Interactions in the Arctic, *UK Arctic Science Conference, 18-20 Sept. Cambridge, UK.*
110. de Leeuw, G., J. Ovadnevaite, A. Manders-Groot, S. Norris, **I. M. Brooks**, E. Dunne, H. Korhonen, L. Sogacheva, H. Lappalainen, S. Pinnock and C. O'Dowd, 2013: OceanFlux Sea Spray Aerosol (OSSA): a new formulation for production fluxes and implications for climate studies, *ESA Living Planet Symposium, 9-13 Sept, Edinburgh, UK.*
109. Hobby, M., **I. M. Brooks**, and S. D. Mobbs, 2013: Motion correction of balloon borne turbulence measurements, *NCAS conference, 16-17 July, Birmingham, UK.*
108. Claussen, J., O. Möhler, T. Leisner, **I. M. Brooks**, S. Norris, B. Brooks, M., W. Haunold, J. Schrod, and A. Danielczok, 2013: Evaluation of Meteorological and Aerosol Sensing with small Unmanned Aerial Systems, *EGU General Assembly, 7-12 April, Vienna, Austria.*
107. Rosenberg, P., D. Parker, C. Ryder, L. Garcia-Carreras, J. Marsham, J. Dorsey, **I. M. Brooks**, A. Dean, J. Crosier, J. McQuaid, and R. Washington, 2013: Saharan Airborne Dust Flux Measurements from the Fennec Campaign, *EGU General Assembly, 7-12 April, Vienna, Austria.*

2012

-
106. Held, A., T. Seith, **I. M. Brooks**, S. J. Norris, and S.D. Mayor, 2012: Intercomparison of lidar aerosol backscatter and in-situ size distribution measurements, *European Aerosol Conference, 2-7 Sept, Granada, Spain*
 105. Hare, J., B. J. Huebert, L. Bariteau, T. Bertram, B. W. Blomquist, **I. M. Brooks**, J. Edson, C. W. Fairall, S. D. Miller, E. S. Saltzman, R. Volkamer, and C. J. Zappa, 2012: High Wind Gas exchange Study (HiWinGS): Measurements to improve air-sea gas transfer parameterizations, *AMS 18th Conference on Air-Sea Interaction, 8-15 July, Boston, USA.*
 104. Pleavin, T. D., **I. M. Brooks**, J. S. Dobbie, M. D. Shupe, M. Tjernström, P. O. G. Persson, B. J. Brooks, 2012: A large eddy simulation study of Arctic boundary-layer cloud during ASCOS, *AMS 20th Conference on Boundary Layers and Turbulence, 8-13 July, Boston, USA.*
 103. Canut, G., **I. M. Brooks**, M. D. Shupe, P. O. G. Persson, M. Tjernström, J. Sedlar, T. Mauritsen, C. E. Birch, B. J. Brooks, 2012: Turbulence structure of the central Arctic boundary layer, *AMS 20th Conference on Boundary Layers and Turbulence, 8-13 July, Boston, USA.*
 102. Tupman, D., **I. M. Brooks**, M. J. Yelland, R. W. Pascal, B. I. Moat, 2012: Automated Spectral Quality Control for Shipboard Eddy Covariance Measurements, *AMS 18th Conference on Air-Sea Interaction, 8-15 July, Boston, USA.*
 101. Sproson, D. A. J., **I. M. Brooks**, S. J. Norris, 2012: The effect of hygroscopicity on sea spray aerosol fluxes: comparing high rate and bulk correction methods, *AMS 18th Conference on Air-Sea Interaction, 8-15 July, Boston, USA.*
 100. Salisbury, D., M. Anguelova, **I. M. Brooks**, 2012: Variability in satellite retrieved whitecap coverage, *AMS 18th Conference on Air-Sea Interaction, 8-15 July, Boston, USA.*

99. Jansen, R. A., **I. M. Brooks**, J. C. King, T. A. Lachlan-Cope, and A. Weiss, 2012: Analysis of surface fluxes over inhomogeneous Antarctic sea-ice, *AMS 18th Conference on Air-Sea Interaction*, 8-15 July, Boston, USA.
98. Jansen, R. A., B. I. Moat, **I. M. Brooks**, M. J. Yelland, R. W. Pascal, 2012: Initial ocean whitecap results from WAGES. *AMS 18th Conference on Air-Sea Interaction*, 8-15 July, Boston, USA.
97. Norris, S. J., **I. M. Brooks**, M. J. Yelland, B. I. Moat, R. W. Pascal, and G. de Leeuw, 2012: Field Measurements of Aerosol Production from Whitecaps in the Open Ocean, *AMS 18th Conference on Air-Sea Interaction*, 8-15 July, Boston, USA
96. Born, J., O. Möhler, W. Haunold, J. Schrod, **I. M. Brooks**, S. J. Norris, B. J. Brooks, M. K. Hill, T. Leisner, 2012, Meteorological and Aerosol Sensing with small Unmanned Aerial Systems, *EGU General Assembly*, 22-27 April, Vienna, Austria.
95. Tjernström, M., **I. M. Brooks**, C.E. Birch, Guylaine Canut, P.O.G. Persson, M.D. Shupe, T. Mauritsen and J. Sedlar, 2012: central arctic low-level cloud and boundary-layer processes in observations and modelling. *International Polar Year Conference*, April 22-27, Montreal, Canada.
94. Shupe, M. D., P. O. G. person, A. Solomon, **I. M. Brooks**, G. Canut, 2012: Turbulence Profiles and Cloud-Surface Coupling in Arctic Stratiform Clouds, *DOE Atmospheric System Research Programme Science Meeting*, 12-16 March, 2012, Arlington, Virginia, USA.
93. Williams, N. J., W. M. Drennan, H. C. Graber, R. J. Ramos, **I. M. Brooks**, S. J. Norris, D. Sproson, 2012: air-sea measurements from moored surface buoys in the pacific during the 2010 typhoon season. *AGU Ocean Science Meeting*, 20-24 Feb. 2012, Salt Lake City, Utah, USA.

2011

92. Tupman, D., **I. M. Brooks**, S. J. Norris, M. J. Yelland, R. W. Pascal, B. I. Moat: 2011: Wave Breaking Effects on the Air-Sea Exchange of Carbon Dioxide. *ESA/SOLAS/EGU Conference: Earth Observation for Ocean-Atmosphere Interactions Science*, 29 Nov.-2 Dec. 2011, Frascati, Italy.
91. Salisbury, D., **I. M. Brooks**, M. Anguelova, S. J. Norris 2011: Remote Sensing of Whitecap Coverage for Sea-Spray Aerosol Flux Parameterizations, *ESA/SOLAS/EGU Conference: Earth Observation for Ocean-Atmosphere Interactions Science*, 29 Nov.-2 Dec. 2011, Frascati, Italy.
90. Sproson, D. **I.M. Brooks**, S. J. Norris, W. M. Drennen, N. Williams, H. Graber, R. Ramos, and J. Gabriele, 2011: Impact of sea spray on air-sea fluxes in Typhoon conditions, *ESA/SOLAS/EGU Conference: Earth Observation for Ocean-Atmosphere Interactions Science*, 29 Nov.-2 Dec. 2011, Frascati, Italy.
89. **Brooks, I. M.**, A. Held, C. Leck, M. Tjernström, S. J. Norris, G. de Leeuw, A. Sirevaag, C. E. Birch, B. J. Brooks, 2011: Bubble and aerosol fluxes in and over leads in Arctic sea ice: results from ASCOS. *UK Arctic Science Conference*, 14-16 Sept. Leeds, UK.
88. Pleavin, T. D., **I. M. Brooks**, J. S. Dobbie, M. Shupe, P. O. G. Persson, M. Tjernström, B. J. Brooks, 2011: Large Eddy Simulations of Arctic Stratus: ASCOS case studies. *UK Arctic Science Conference*, 14-16 Sept. Leeds, UK.
87. Birch, C. E., **I. M. Brooks**, P. Earnshaw, C. Leck, A. Lock, T. Mauritsen, S. F. Milton, P. O. G. Persson, J. Sedlar, M. Shupe, and M. Tjernström, 2011: Modelling the vertical structure of the central Arctic boundary layer: ASCOS case studies. *UK Arctic Science Conference*, 14-16 Sept. Leeds, UK.
86. Canut, G., **I. M. Brooks**, P. O. G. Persson, M. Shupe, M. Tjernström, T. Mauritsen, J. Sedlar, and C. E. Birch, 2011: Boundary layer structure during ASCOS – Multi-sensor retrievals and diagnostics. *UK Arctic Science Conference*, 14-16 Sept. Leeds, UK.
85. Birch, C. E., **I. M. Brooks**, P. Earnshaw, C. Leck, A. Lock, T. Mauritsen, S. F. Milton, P. O. G. Persson, J. Sedlar, M. Shupe, and M. Tjernström, 2011: Modelling the vertical structure of the central Arctic boundary layer : ASCOS case studies, *IUGG Conference*, 28 June – 7 July, Melbourne, Australia
84. Canut, G., **I. M. Brooks**, P. O. G. Persson, M. Shupe, M. Tjernström, T. Mauritsen, J. Sedlar, and C. E. Birch, 2011: Boundary layer structure during ASCOS – Multi-sensor retrievals and diagnostics, *AMS 11th Conference on Polar Meteorology and Oceanography*, 2-5 May, Boston, MA, USA.

83. Birch, C. E., **I. M. Brooks**, P. Earnshaw, C. Leck, A. Lock, T. Mauritsen, S. F. Milton, P. O. G. Persson, J. Sedlar, M. Shupe, and M. Tjernström, 2011: Modelling the vertical structure of the central Arctic boundary layer : ASCOS case studies, *AMS 11th Conference on Polar Meteorology and Oceanography*, 2-5 May, Boston, MA, USA.
82. Pleavin, T. D., **I. M. Brooks**, J. S. Dobbie, M. Shupe, P. O. G. Persson, M. Tjernström, B. J. Brooks, 2011: Large Eddy Simulations of Arctic Stratus: ASCOS case studies, *AMS 11th Conference on Polar Meteorology and Oceanography*, 2-5 May, Boston, MA, USA.
81. **Brooks, I. M.**, A. Held, C. Leck, M. Tjernström, S. J. Norris, G. de Leeuw, A. Sirevaag, C. E. Birch, B. J. Brooks, 2011: Linking the Arctic Ocean and clouds - bubble and aerosol flux measurements from ASCOS, *AMS 11th Conference on Polar Meteorology and Oceanography*, 2-5 May, Boston, MA, USA.
80. Tjernström, M., J. Sedlar, T. Mauritsen, M. Shupe, **I. M. Brooks**, 2011: Boundary-layer and aerosol/cloud interaction in central Arctic summer observed during ASCOS, *AMS 11th Conference on Polar Meteorology and Oceanography*, 2-5 May, Boston, MA, USA.
79. Shupe, M. P. O. G. Person, A. Solomon, **I. M. Brooks**, T. Mauritsen, J. Sedlar, M. Tjernström, 2011: Dynamical and microphysical characteristics and interactions in Arctic mixed-phase clouds, *AMS 11th Conference on Polar Meteorology and Oceanography*, 2-5 May, Boston, MA, USA.
78. Mauritsen, T., J. Sedlar, M. Tjernström, C. Leck, M. Martin, M. Shupe, S. Sjögren, B. Sierau, P. O. G. Persson, **I. M. Brooks**, E. Swietlicki, 2011: Arctic aerosol indirect effects. *EGU General Assembly*, 3-8 April, Vienna, Austria.

2010

-
77. Shupe, M., P. O. G. Persson, T. Mauritsen, **I. M. Brooks**, 2010: Dynamical-Microphysical Interactions in Arctic Mixed-Phase Clouds, *AMS 13th Conference on Cloud Physics and Atmospheric Radiation*, 28 June – 2 July, Portland, Oregon.
 76. P. O. G. Persson, M. Shupe, E. Sukovich, B. J. Brooks, **I. M. Brooks**, T. Mauritsen, J. Sedlar, M. Tjernström, and A. Gasiewski, 2010: Observations of Arctic Clouds, Boundary-layer Structure, and Surface Energy Fluxes during the 2008 ASCOS/AMISA Field Programs, *International Polar Year Oslo Science Conference*, 8-12 June, Oslo, Norway.
 75. S. J. Norris, **I. M. Brooks**, W. M. Drennan, 2010: ASIST: Measurements of sea spray fluxes under extreme wind conditions; their relationship to wave state and effect on other air-sea fluxes. *Workshop on air-sea interactions under tropical cyclones (hurricanes)*. April 10-12, University of Rhode Island.
 74. Upstill-Goddard, R., M. J. Yelland and **I. M. Brooks**, 2010: Sea surface state and CO₂ exchange-highlights from UK-SOLAS field campaigns. *UK SOLAS Finale meeting*, 22-23 March, Met. Office, Exeter, UK.
 73. Sedlar J.; M. Tjernström, T. Mauritsen, **I. M. Brooks**, C. E. Birch, M. Shupe, A. Sirevaag, P. O. G. Persson, C. Leck, 2010: The Impacts of Albedo, Solar Zenith Angle and Clouds on the Transition From Melt to Freeze in the High-latitude Arctic, *State of the Arctic 2010 Conference*, 16-19 March, Miami .
 72. Sahlee, E., **I. M. Brooks**, S. J. Norris and W. M. Drennan, 2010: On the effect of waves on air-sea fluxes. *AGU Ocean Sciences Meeting*, 22-26 February, Portland, Oregon.

2009

-
71. Persson, P. Ola G., M. Shupe, M. Tjernström, I. M. Brooks, R. Stone, 2009: (New) Observing methods for the Arctic atmosphere, *DAMOCLES International Symposium on the Arctic Climate System*, 10-12 November, 2009, Brussels.
 70. Sedlar, J., M. Tjernström, T. Mauritsen, **I. M. Brooks**, C.E. Birch, M. Shupe, O. Persson, A. Sirevaag, 2009: The summer-fall transition - a surface energy budget perspective. *DAMOCLES International Symposium on the Arctic Climate System*, 10-12 November, 2009, Brussels.
 69. Persson, P. O. G., M. Tjernström, C. Leck, **I. M. Brooks**, B. J. Brooks, and A. Gasiewski, 2009: ASCOS/AMISA 2008 field program: Accomplishments and First Results, *MOCA-09*, 19-29 July 2009, Montreal.

68. Persson, P. O. G., V. Leuski, M. Shupe, **I. M. Brooks**, B. J. Brooks, and M. Tjernström, 2009: High-temporal resolution observations of the thermal and kinematic vertical structure in the Arctic boundary-layer during ASCOS, *MOCA-09, 19-29 July 2009, Montreal*.
67. **Brooks, I. M.**, C. E. Birch, T. Mauritsen, J. Sedlar, M. Tjernström, P. O. G. Persson, M. Shupe, B. J. Brooks, S. F. Milton, P. Earnshaw. 2009: Ice-Cloud Coupling over the Central Arctic Ocean – Measurements from the ASCOS Campaign. *UK Arctic Science Conference, July 13-15, NOCS, Southampton, UK*.
66. **Brooks, I. M.**, M. Tjernström, C. Leck, P. O. G. Persson, M. Shupe, C. E. Birch, B. J. Brooks, T. Mauritsen, J. Sedlar, A. Sirevaag, S. J. Norris, P. Matrai, 2009: The Arctic Summer Cloud-Ocean Study – ASCOS. *UK Arctic Science Conference, July 13-15, NOCS, Southampton, UK*.
65. Norris, S. J., **I. M. Brooks**, M. K. Hill, B. J. Brooks, M. H. Smith, 2009: Eddy covariance measurements of the sea spray aerosol flux over the open ocean, *19th V. M. Goldschmidt Conference “Challenges to our Volatile Planet”, 21-26 June 2009, Davos, Switzerland*.
64. Persson, P. O. G., V. Leuski, M. Shupe, **I. M. Brooks** and M. Tjernstrom, 2009: High-temporal resolution observations of the thermal and kinematic vertical structure in the Arctic boundary-layer during ASCOS, *AMS 10th Conference on Polar meteorology and Oceanography, 18-21 May 2009, Madison, Wisconsin*.
63. Birch, C. E., **I. M. Brooks**, S. F. Milton, P. Earnshaw, 2009: An evaluation of the U.K. Met Office Unified Model over the central Arctic Ocean during ASCOS, *AMS 10th Conference on Polar meteorology and Oceanography, 18-21 May 2009, Madison, Wisconsin*.
62. Birch, C. E., T. Mauritsen, **I. M. Brooks**, J. Sedlar, 2009: Turbulent flux profile measurements made over Arctic pack ice at 87°N during ASCOS. *AMS 10th Conference on Polar meteorology and Oceanography, 18-21 May 2009, Madison, Wisconsin*.
61. **Brooks I. M.**, C. E. Birch, M. K. Hill, T. Mauritsen, J. Sedlar, 2009: Tethered Balloon Measurements of Arctic Boundary Layer Mean and Turbulent Structure during ASCOS. *AMS 10th Conference on Polar meteorology and Oceanography, 18-21 May 2009, Madison, Wisconsin*.
60. Fish. A., **I. M. Brooks**, B. J. Brooks, 2009: SODAR Measurements of Arctic Boundary Layer Structure during ASCOS. *AMS 10th Conference on Polar meteorology and Oceanography, 18-21 May 2009, Madison, Wisconsin*.
59. Pleavin, T. D., **I. M. Brooks**, J. S. E. Dobbie, 2009: Idealized Modelling of Summertime Arctic Stratus during ASCOS. *AMS 10th Conference on Polar meteorology and Oceanography, 18-21 May 2009, Madison, Wisconsin*.

2008

-
58. **Brooks, I. M.**, 2008: Physical Exchanges at the Air-Sea Interface: Synthesis and Dissemination. *NERC UK-SOLAS Science Meeting, Southampton, Oct 6-8, 2008*
 57. **Brooks, I. M.**, Sarah J. Norris, Michael H. Smith, Barbara J. Brooks, Gerrit de Leeuw, Margaret J. Yelland, Ben I. Moat, Robin W. Pascal, Meric A. Srokosz, David K. Woolf. 2008: Field Observations Of Sea Spray, Gas Fluxes And White Caps: Results From SEASAW. *NERC UK-SOLAS Science Meeting, Southampton, Oct 6-8, 2008*
 56. O'Connor, Ewan, Robin Hogan, Anthony Illingworth, **Ian Brooks**, Barbara Brooks, Sarah Norris, Cathryn Birch, Charles Wrench, 2008: Estimating turbulent parameters from Doppler Lidar. *AMS 18th Symposium on Boundary Layers and Turbulence, June 9-13 2008, Stockholm, Sweden*.
 55. **Brooks, I. M.**, B. J. Brooks, A. J. Illingworth, E. O'Conner, C. Wrench, J. L. Agnew, S. J. Norris, and C. E. Birch, 2008: Boundary Layer Structure & Aerosol Properties: Lidar Retrievals and In-Situ Measurements. *AMS 18th Symposium on Boundary Layers and Turbulence, June 9-13 2008, Stockholm, Sweden*.
 54. Norris, S. J., **I. M. Brooks**, B. J. Brooks, M. K. Hill. 2008: Differences between eddy correlation fluxes for discrete and continuous scalars : applications to sea-spray aerosol fluxes. *AMS 18th Symposium on Boundary Layers and Turbulence, June 9-13 2008, Stockholm, Sweden*.
 53. Birch, Cathryn E., **Ian M. Brooks**, Michael Tjernström, Sean F. Milton, 2008: The performance of the Met Office Unified Model over the central Arctic Ocean. 2008: *AMS 18th Symposium on Boundary Layers and Turbulence, June 9-13 2008, Stockholm, Sweden*.

52. Grant, R., Andrew N. Ross, **Ian M. Brooks**, Stephen D. Mobbs, 2008: Case studies from a field campaign to measure canopy air flows over complex terrain. *AMS 18th Symposium on Boundary Layers and Turbulence, June 9-13 2008, Stockholm, Sweden.*
51. Persson, O. Shupe, M. Tjernstrom, M., Gasiewski, A., **Brooks, I. M.**, Brooks, B. J., Markus, T., Johnston, P., Leuski, V., Uttal, T., Fairall, C. W., 2008: Plans for cloud and boundary-layer research during the Arctic Summer Cloud-Ocean Study. *EGU General Assembly, April 14-18 2008, Vienna, Austria.*
50. Weller, Robert A., Frank Bradley, **Ian M. Brooks**, James Edson, Chris Fairall, 2008: Introduction to “Sensors for fluxes at the sea surface. Physical: energy, heat, water, salt”, *OceanSensors’08, Warnemünde, Germany, March 31-April 4, 2008*
49. **Brooks, Ian M.**, Martin K. Hill, Sarah J. Norris, Barbara J. Brooks, 2008: CLASP : An Optical Particle Counter for Eddy-Correlation Measurements of Sea-Spray Aerosol Fluxes, *OceanSensors’08, Warnemünde, Germany, March 31-April 4, 2008.*

2007

48. **Brooks, I. M.**, S. J. Norris, M. H. Smith, B. J. Brooks, J. J. N. Lingard, G. de Leeuw, M. J. Yelland, B. I. Moat, R. W. Pascal, M. A. Srokosz, D. K. Woolf, N. Hardman-Mountford, G. Moore, 2007: Field Observations Of Sea Spray, Gas Fluxes And White Caps: Preliminary Results From SEASAW. *NERC, UK SOLAS Science Meeting, September 25-27 2007, Leeds.*
47. Norris, S. J., **I. M. Brooks**, M. H. Smith, B. J. Brooks, A. A. Bloom, M. K. Hill, J. B. McQuaid, P. D. Smith, J. J. N. Lingard, 2007: The SEA Spray And Whitecap (SEASAW) project: Measurements of air-sea fluxes of Aerosols and CO₂, *Royal Meteorological Society Conference, September 3-7, 2007, Edinburgh.*
46. **Brooks, I. M.**, M. H. Smith, S. J. Norris, B. J. Brooks, A. A. Bloom, M. K. Hill, J. B. McQuaid, P. D. Smith, J. J. N. Lingard, M. J. Yelland, M. A. Srokosz, B. I. Moat, R. W. Pascal, D. K. Woolf, D. Coles, M. Telszewski, U. Schuster, G. de Leeuw, 2007: An Overview of the SEA Spray And Whitecap (SEASAW) Study, *AMS 15th Conference on Air-Sea Interaction, August 20-24, 2007, Portland, Oregon.*
45. Norris, **I. M. Brooks**, M. H. Smith, M. K. Hill, B. J. Brooks, G. de Leeuw, 2007: In-Situ Measurements of Aerosol Production from Individual Whitecaps during SEASAW, *AMS 15th Conference on Air-Sea Interaction, August 20-24, 2007, Portland, Oregon.*
44. Norris, S. J., **I. M. Brooks**, M. K. Hill, B. J. Brooks, M. H. Smith, J. J. N. Lingard, 2007: Eddy Correlation Measurements of Sea-Spray Aerosol Fluxes during SEASAW, *AMS 15th Conference on Air-Sea Interaction, August 20-24, 2007, Portland, Oregon.*
43. Bloom, A. A., **I. M. Brooks**, M. K. Hill, C. B. Schwierz, S. J. Norris, M. Telszewski, U. Schuster, M. J. Yelland, B. I. Moat, R. W. Pascal, 2007: CO₂ Flux Measurements during SEASAW, *AMS 15th Conference on Air-Sea Interaction, August 20-24, 2007, Portland, Oregon.*
42. **Brooks, I. M.**, M. K. Hill, M. J. Yelland, B. I. Moat, R. W. Pascal, 2007: Ship Based Turbulence Measurements Under Heavy Seas : Measurement, Motion Correction, and Interpretation, *AMS 15th Conference on Air-Sea Interaction, August 20-24, 2007, Portland, Oregon.*
41. Birch, J. J. N., **I. M. Brooks**, M. Tjernström, S. F. Milton, 2007: Turbulent exchange over the Arctic Icecap, *AMS 15th Conference on Air-Sea Interaction, August 20-24, 2007, Portland, Oregon.*
40. Lingard, J. J. N., B. J. Brooks, S. J. Norris, **I. M. Brooks**, M. H. Smith, 2007: Physicochemical Characterisation Of Marine Boundary Layer Airborne Aerosol Particles During The Sea Spray, Gas Fluxes And Whitecaps (SEASAW) Experiment., *17th International Conference on Nucleation and Atmospheric Aerosols, Aug 13-17, 2007, Galway, Ireland.*
39. Baeza-Romero, M. T., A. V. Jackson, S. Walker, M. H. Smith., M. K. Hill, J. J. N. Lingard, B. J. Brooks, J. B. McQuaid, S. J. Norris, **I. M. Brooks**, 2007: The Leeds environmental chamber and aerosol facilities: a tool for aerosol studies, *UKAAN workshop – Air quality to climate change: Implication of and for aerosol, June 6-7, 2007, Reading.*
38. **Brooks, I. M.**, S. J. Norris, M. K. Hill, M. H. Smith, B. J. Brooks, and J. J. N. Lingard, 2007: Measurements of Sea Salt Aerosol Fluxes over the North Atlantic, *UKAAN workshop – Air quality to climate change: Implication of and for aerosol, June 6-7, 2007, Reading.*

37. Grant, R. E., J. Hutton, **I. M. Brooks**, B. Gardiner, K. Jones, S. D. Mobbs, and A. N. Ross, 2007: Measuring Turbulent Flows over a Forested Hill, *International Conference on Alpine Meteorology, 4-8 June 2007, Chambéry, France*.
36. Burton, R., S. D. Mobbs, S. Vosper, P. Sheridan, B. J. Brooks, and **I. M. Brooks**, 2007: Wind patterns observed in the boundary layer of the Owens Valley, Sierra Nevada. *International Conference on Alpine Meteorology, 4-8 June 2007, Chambéry, France*.
35. Mobbs, S. D., R. Burton, F. Perry, G. Poulos, J. Schmidli, S. Vosper, and **I. M. Brooks**, 2007: T-REX EOPs II: Valley and Larger Scale Forcing of the Boundary Layer. *International Conference on Alpine Meteorology, 4-8 June 2007, Chambéry, France*.

2006

34. **Brooks, I. M.**, 2006: Measuring physical exchanges: sea spray, wave-breaking and whitecap production. *Challenger Conference for Marine Science. September 11-15, 2006, Oban*. (Invited presentation for Air-Sea Interactions Workshop.)
33. S. D. Mobbs, R. Burton, **I. M. Brooks**, B. J. Brooks, F. Perry, M. K. Hill, V. Smith, M. Weissmann, and A. Doernbrack, 2006: Surface-Based Observations of Rotors and Flow Separation During T-REX, *AMS Conference on Mountain Meteorology, August 2006, Santa Fe*.
32. **Brooks, I. M.**, M. H. Smith, S. J. Norris, B. J. Brooks, J. Lingard, J. B. McQuaid, and P. D. Smith, 2007: Field Observations of Sea Spray, Gas Fluxes, and Whitecaps: SEASAW, *NERC UK SOLAS Annual Science Meeting, July 17-18 2006, Manchester, UK. 1pp*.
31. Fowler, A. M. and **I. M. Brooks**, 2006: Entrainment Zone Definitions: A large Eddy Study, *17th Symposium on Boundary Layers and Turbulence, San Diego, May 22-25 2006, AMS, 3pp*.

2005

30. McQuaid, J. B. and **I. M. Brooks**, 2005: A Fast Response Chemiluminometric Ozone Sensor for Atmospheric Applications. *ACCENT-BLAFLUX Workshop 2005, Risø National Laboratory, Roskilde, Denmark, April 6-8 2005, 1pp*.
29. Ferrare, R. A., D. Turner, M. Clayton, D. Covert, R. Elleman, H. Jonsson, B. Schmid, J. Redemann, J. Ogren, E. Andrews, M. Chin, **I. Brooks**, S. Guibert, M. Schultz. 2005: Raman Lidar Measurements of Aerosol Profiles Over the Southern Great Plains. *IEEE Workshop on Remote Sensing of Atmospheric Aerosols: Honorary Workshop for Prof. John A. Reagan, Tucson, Arizona, USA, 5-6 April 2005*.
28. Ferrare, R. A., D. D. Turner, M. Clayton, B. Schmid, J. Redemann, D. S. Covert, R. A. Elleman, V. G. Brackett, H. Jonsson, **I. M. Brooks**, J. Goldsmith, M. Chin, S. Guibert, and M. Schulz, 2005: Raman Lidar Measurements of Aerosols and Water Vapor over the ARM SGP Site. *2nd Symposium on Lidar Atmospheric Applications, San Diego, January 9-13, 2005. 3pp*.

2004

27. Ferrare, R. A., D. Turner, M. Clayton, D. S. Covert, R. A. Elleman, H. Jonsson, B. Schmid, J. Redemann, M. Chin, S. Guibert, M. Schulz, **I. M. Brooks**, J. Ogren, E. Andrews. 2004: Raman lidar measurements of aerosol profiles over the Southern Great Plains. *Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract A32B-08, 2004*.
26. **Brooks I. M.**, 2004: Two contrasting case studies of entrainment zone structure in cloud capped marine atmospheric boundary layers. *16th Symposium on Boundary Layers and Turbulence, 9-13 August 2004, Portland, Maine. AMS, 2004, pp4*.
25. Ferrare, R. A. D. Turner, M. Clayton, V. Brackett, B. Schmid, J. Redemann, D. Covert, R. Elleman, J. Ogren, E. Andrews, J. Goldsmith, H. Jonsson, **I. M. Brooks**. 2004: Raman Lidar Measurements Of Aerosols And Water Vapor Over The Southern Great Plains. *22nd International Laser Radar Conference, 12-16 July 2004, Matera, Italy. G. Pappalardo and A. Amodeo, eds., ESA SP-561, ISBN 92-9092-872-7, 333-336*.

2002

24. **Brooks, I. M.**, 2002: Lidar Observations of Entrainment Zone Structure at the Top of the Stable Marine Atmospheric Boundary Layer, *15th Conference on Boundary Layers and Turbulence, 15-19 July 2002, Wageningen, The Netherlands. AMS, 485-488*.

23. **Brooks, I. M.**, 2002: Finding Boundary Layer Top for the Stable Layer: Application of a Haar Wavelet Covariance Transform to Lidar Observations, *15th Conference on Boundary Layers and Turbulence, 15-19 July 2002, Wageningen, The Netherlands. AMS*, 167-170.
22. Soderberg, S., **I. M. Brooks** and M. Tjernstrom, 2002: Local scaling of turbulence in the stable internal boundary layer around a coastal headland. *15th Conference on Boundary Layers and Turbulence, 15-19 July 2002, Wageningen, The Netherlands. AMS*, 666-669.
21. Soderberg, S., M. Tjernstrom and **I. M. Brooks**, 2002: Taking a closer look at the turbulence in a higher-order closure mesoscale model. *15th Conference on Boundary Layers and Turbulence, 15-19 July 2002, Wageningen, The Netherlands. AMS*, 576-579.

2001

20. **Brooks, I. M.**, S. Söderberg, and M. Tjernström, 2001: The turbulence structure of the stable atmospheric boundary layer around a coastal headland: I. Aircraft observations. *4th Conference on Coastal Atmospheric and Oceanic Prediction and Processes, St. Petersburg, Florida*, 37-42.
19. Söderberg, S., M. Tjernström, and **I. M. Brooks**, 2001: The turbulence structure of the stable atmospheric boundary layer around a coastal headland: II. Modelling results. *4th Conference on Coastal Atmospheric and Oceanic Prediction and Processes, St. Petersburg, Florida*, 43-44, 2001.

2000

18. **Brooks, I. M.**, D. P. Rogers, and L. Regier. 2000: The Scripps Institution of Oceanography Marine Observatory: a platform for real-time measurements of the coastal ocean and atmosphere. *4th Symposium on Integrated Observing Systems, Long Beach, January 9-14*, 134-137, 2000. & *16th International Conference on Interactive information and Processing Systems (IIPS) for Meteorology, Oceanography, and Hydrology. Long Beach, January 9-14*, 233-236, 2000.

1999

17. **Brooks, I. M.**, M. Tjernstrom, K. Edwards, D. P. Rogers, and L. M. Strom, 1999: The mean and turbulence structure of an expansion fan in the coastal atmospheric boundary layer: observations from Coastal Waves 1996. *Fall Meeting of the AGU, Eos supplement, 80*, F189, 1999.
16. Pirjola, L., C. D. O'Dowd, **I. M. Brooks**, and M. Kulmala. 1999: Can nucleation occur in the cloud free marine boundary layer? *European Aerosol Conference, Prague. Journal of Aerosol Science, 30, Supplement 1*, S129-S130, 1999.
15. **Brooks, I. M.**, and D. P. Rogers, 1999: Observations of the turbulence structure of a well-developed internal boundary layer over the Persian Gulf. *13th Symposium on Boundary Layers and Turbulence, Dallas, January 10-15, 1999*, 367-370.
14. Rogers, D. P., **I. M. Brooks**, and L. Regier, 1999: An integrated coastal observing system for real-time air-sea interaction measurements. *3rd Symposium on Integrated Observing Systems, 86-89, Dallas, January 10-15, 1999*.

1997

13. Goroch, A. K., D. P. Rogers, and **I. M. Brooks**. 1997: Aerosol vertical structure in the Arabian Gulf. *Battlespace Atmospheric Conference, 2-4 December, San Diego, Space and Naval Warfare Systems Center Technical Document 2989*, 435-440.
12. Ström, L., D. P. Rogers, **I. M. Brooks**. 1997: Turbulence in the stably stratified marine boundary layer observed during the coastal waves experiment 1996. *12th Symposium on Boundary Layers and Turbulence, Vancouver, July 1997*, 136-137.
11. Rogers, D. P., L. Ström, and **I. M. Brooks**. 1997: Surface flux parameterizations for the stable coastal marine boundary layer. *12th Symposium on Boundary Layers and Turbulence, Vancouver, July 1997*, 476-478.

1996

10. **Brooks, I. M.**, and D. P. Rogers, 1996: Turbulence in the marine atmospheric boundary layer: aircraft measurements and lidar visualisation. *Fall Meeting of the AGU, Eos supplement, 77, No 46*, 117, 1996.
9. Rogers, D. P., L. Ström, and **I. M. Brooks**, 1996: Aerosols and clouds in the stable marine boundary layer. *Fall Meeting of the AGU, Eos supplement, 77, No 46*, 118, 1996.

8. **Brooks I. M.**, D. P. Rogers, and J. W. Glendening, 1996: Boundary layer rolls and cloud bands: aircraft observations and modelling results. *12th International Conference on Clouds and Precipitation, Zurich, 518-521, August 1996.*
7. **Brooks I. M.**, and D. P. Rogers, 1996: Aircraft observations of boundary layer rolls off the coast of California. *AGU Ocean Sciences Meeting, San Diego, Eos supplement, 76, 3, 130, 1996.*

1995

6. Raga, G. B., S. T. Siems, and **I. M. Brooks**, 1995: A Large Eddy Simulation of a nocturnal stratocumulus case observed during ASTEX. *AMS Cloud Physics Conference, Dallas, 160-161, January 1995.*

1994

5. **Brooks, I. M.**, D. P. Rogers, and D. W. Johnson, 1994: Modification of the marine boundary-layer and the development and evolution of shiptracks. *Fall Meeting of the AGU, Eos supplement, 75, 44, 138, 1994.*

1993

4. Saunders, C. P. R., and **I. M. Brooks**. 1993: Laboratory measurements of thunderstorm charging processes. *AMS Conference on Atmospheric Electricity - St. Louis, Missouri, 845-846, October 1993.*
3. Hallett, J., W. Hendricks, R. Black, C. P. R. Saunders, and **I. M. Brooks**. 1993: Aircraft observations of precipitation development and hydrometeor charge in Florida Cumuli. *AMS Conference on Atmospheric Electricity - St. Louis, Missouri, 785-590, October 1993.*

1992

2. Black, R., **I. M. Brooks**, C. P. R. Saunders, Y. Y. Dong, and J. Hallett, 1992: Cloud and electrical characteristics of initial and developed convective clouds in Florida: evidence for charge separation processes. *Fall Meeting of the AGU, Eos supplement, 73, 43, 110, 1992.*
1. **Brooks, I. M.** and C. P. R. Saunders, 1992: *9th International Conference on Atmospheric Electricity, St. Petersburg, Russia, 92-95, 1992.*