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Citizenship: UK citizen

Employment

Current:

ASU Bermuda Institute of Ocean Sciences - St. George's, Bermuda

2024-present: Senior Global Futures Scientist, Julie Ann Wrigley Global Futures Lab, Arizona State University

2023-present: Associate Research Professor, School of Ocean Futures, Arizona State University

2017-present: Director of Education for University Programs at ASU BIOS

- Management of undergraduate and postgraduate education programs at ASU BIOS
- Curriculum development, program management, and financial oversight
- 100+ students per year

2003-present: BIOS Associate Scientist

- Principal Investigator - Tudor Hill Marine-Atmospheric Observatory, Bermuda
- Principal Investigator - Bermuda Environmental Quality Program
- Undergraduate and postgraduate teaching and supervision

Previous:

NERC Centre for Ecology and Hydrology - Dorset, UK

2000-2003: Research Scientist (HSO)

- Principal Investigator - Environmental fate and behaviour of organic contaminants
- Establishment and development of chemical ecology research facilities and applications

Lancaster University, Department of Environmental Science - Lancaster, UK

2000: Sessional Lecturer

- Provision of course module (lectures and laboratory classes), "Water Pollution, Regulation and Control" for B.Sc. and M.Sc. Environmental Science degrees

1996-1999: Research Associate

- Management of national air monitoring network for the UK Government's Persistent Organic Pollutants (POPs) programme in support of the UNECE POPs Protocol and the UN Stockholm Convention
- Development of sampling and analytical techniques to study the environmental behaviour and fate of contaminants (organochlorine pesticides, PAHs, PCBs, PBDEs and polychlorinated *n*-alkanes)
- Investigation of organochlorine contaminant time trends in sediments and archived soils

University of Reading, Postgraduate Research Institute for Sedimentology - Reading, UK

1995-1996: Research Fellow

- Investigation of sorption of herbicides in soil and sediment from the London Basin aquifer

Environment Canada, National Water Research Institute - Burlington, Ontario, Canada

1992-1995: NSERC CGL Visiting Fellow

- Determination of the record of the atmospheric flux of POPs to an Arctic ice cap
- Investigation of ²¹⁰Pb dating technique for glaciological studies
- Monitoring the fluvial flux of contaminants to the Arctic Ocean

Education

PhD - Environmental Chemistry

1992: Department of Oceanography, University of Southampton, Southampton, UK

- Polycyclic Aromatic Hydrocarbons in Seasonal Snowcover (sup: Dr. M. Tranter) - Investigation of PAHs in snowfall, and examination of source processes and regions

College Certificate - Advanced Analytical Techniques for Environmental Systems

1989: School of Ocean Sciences, University College of North Wales, Bangor, UK

- Intensive postgraduate course of practical training in environmental analytical chemistry

BSc (Joint Hons.) - Oceanography and Marine Biology

1988: School of Ocean Sciences, University College of North Wales, Bangor, UK

- Oceanography, Marine Biology, Earth Sciences, Biology, Biochemistry and Soil Science. Degree dissertation: Microbial methanogenesis in near-shore sediments (sup: Drs. G. Floodgate and M. Yarrington)

Academic Honours

NSERC Canadian Government Laboratory Visiting Fellowship

1992: National Water Research Institute, Environment Canada, Burlington, Ontario, Canada (sup: Dr. D. Gregor)

European Environmental Research Organisation Graduate Student Fellowship

1991: Department of Hydrology, University of Bayreuth, Germany (sup: Prof. R. Herrmann)

UKABBSR Scholarship - Hazard Assessment of Marine Contaminants Summer Course

1989: Bermuda Biological Station for Research, Bermuda

Professional Activities

- American Geophysical Union, member
- Bermuda College Marine Science Advisory Board
- Panel reviewer for NSF
- Panel reviewer for Gulf of Mexico Research Initiative RFP-V (2015) and RFP-VI (2017)
- Reviewer for research proposals, inc. NSF, NOAA, Leverhulme Trust, Canadian Foundation for Climate and Atmospheric Sciences, Antarctica New Zealand
- Reviewer for academic journals, inc. *Environ. Sci. Technol.*, *JGR*, *Environ. Poll.*, *Chemosphere*
- SOLAS Science and Society Workshops - Session Co-chair (2016-17)
- Bermuda Marine Pollution Contingency Plan, Command Team member (2004-present)
- Scientific Advisor, Bermuda Biodiesel Ltd. (2006-08)
- Adjunct Associate Professor, Duke University, USA (2006-07)
- Adjunct Lecturer, Bournemouth University, UK (2001-02)
- Participant in EU validation of ISO analytical method for alkylphenols in water (2002)
- UN-ECE EMEP Expert Panel on Measurement of POPs in Air and Precipitation (1997-99)
- Participant in Canadian Government IAND Inter-laboratory Study of PAH Analysis (1993-94)

Professional Development

- Analyzing Risk: Science, Assessment and Management (2010) - Harvard School of Public Health
- HYSPLIT Users Workshop (2008) - NOAA
- AERMOD-View Air Dispersion Modelling Workshop (2007) - Lakes Environmental
- Introductory Risk Assessment Guidance for Superfund (2007) - US EPA
- Panel Interviewing Skills (2003) - NERC professional development course
- Essential Line Management Skills (2002) - NERC professional development course
- Project Management (2000) - NERC professional development course

Research Activities and Funding

Current Funding (Principal Investigator):

- NSF: *Operation of a Community Marine-Atmospheric Sampling Facility at Tudor Hill, Bermuda, 2025-2028* - \$US 457,177
- NSF: *REU Site: Collaborative Marine Research Experience at the Bermuda Institute of Ocean Sciences, 2024-2026* - \$US 397,165
- Government of Bermuda: *Bermuda Air Quality Program 2023-2025* - \$US 533,076
- NOAA: *Global Monitoring Division, Operations Support, 2025-2026* - \$US 5,000

Previous Funding (Principal Investigator):

- NOAA: *Global Monitoring Division, Operations Support, 2008-2025* - c. \$US 25,000 per year
- NSF: *Operation of a Community Marine-Atmospheric Sampling Facility at Tudor Hill, Bermuda, 2021-2024* - \$US 435,865
- NSF: *REU Site: Collaborative Marine Research Experience at the Bermuda Institute of Ocean Sciences, 2021-2023* - \$US 496,832
- Government of Bermuda: *Bermuda Air Quality Program 2003-2022* - c. \$US 4,370,000
- NSF: *Operation of a Community Marine-Atmospheric Sampling Facility at Tudor Hill, Bermuda, 2018-2021* - \$US 376,491
- NSF: *Research Experience for Undergraduates, Fall Semester Marine Science Research in Bermuda, 2018-2020* - \$US 440,434
- NSF: *Operation of a Community Marine-Atmospheric Sampling Facility at Tudor Hill, Bermuda, 2017-2018* - \$US 99,336
- NSF: *Operation of a Community Marine-Atmospheric Sampling Facility at Tudor Hill, Bermuda, 2014-2017* - \$US 289,010
- NSF: *Collaborative Research: Emergency Funding for Repair of the BIOS Tudor Hill Marine Atmospheric Observatory* - \$32,081
- NSF: *Augmentation of Existing REU Site Awards, 2014-2015* - \$US 25,207
- NSF: *Research Experience for Undergraduates, Fall Semester Marine Science Research in Bermuda, 2013-2014* - \$US 275,987
- NSF: *Operation of a Community Marine-Atmospheric Sampling Facility at Tudor Hill, Bermuda, 2011-2014* - \$US 234,818
- NSF: *Research Experience for Undergraduates, 2012-2013* - \$US 107,623
- Government of Bermuda: *Dockyard Monitoring Program, 2010-2012* - \$US 172,216
- NSF: *Collaborative Research: The Processing and Radiative Properties of Aerosols over the Western North Atlantic Ocean at Bermuda, 2008-2009* - \$US 107,557
- Government of Bermuda: *Bermuda Mercury Program, 2005-2007* - \$US 266,000
- Government of Bermuda: *BBSR Centennial Equipment Grant, 2003* - \$US 100,000
- NERC: *Participation in ISO Method Testing for Nonylphenol in Water, 2002* - £UK 2,300
- NERC: *Contaminants in Sediment Pore Water, 2001-2002* - £UK 13,000
- UK drinking water supply company: *Control of Chironomid Midges, 2001* - £UK 36,000

Previous Funding (Co-Principal Investigator):

- BIOS Cawthorn Innovation Grant: *Eddy covariance: Understanding the environmental regulators of air-sea gas exchange and the importance of the Sargasso Sea for atmospheric CO₂ variability* - \$100,000
- Bermuda Waterworks Ltd: *Environmental Assessment of a Sea Water Reverse Osmosis Outfall, 2017-2018* - \$209,136
- NSF: *Collaborative Research: Isotopic and Compositional Investigation of the Sources and Interactions of Reactive N in the Marine Atmosphere at Bermuda, 2011-2013* - \$US 139,499
- NSF: *Operation of a Community Marine-Atmospheric Sampling Facility at Tudor Hill, Bermuda, 2008-2011* - \$US 225,694
- Government of Bermuda: *Contaminants in Groundwater, 2004* - \$US 20,000
- UK Food Standards Agency: *Impact of Water Pollution on Food Safety, 2002* - £UK 17,800

Current External Collaborations:

- NOAA and NASA: *Operational support for global sampling networks*
- Environment and Climate Change Canada: *Air sampling networks for POPs and Hg*

Previous Collaborative Partners:

- Dr. H-C. Steen-Larsen, Geophysical Institute, University of Bergen, Norway: *Isotopic composition of water vapour in the atmosphere of the North Atlantic*
- Dr. M. Hastings, Brown University and Drs. D. Sigman and K. Altieri, Princeton University: *Cycling and atmospheric sources of reactive nitrogen in the Atlantic Ocean*
- Dr. K. Schönrogge, CEH Dorset: *The chemical ecology of tritrophic relationships*
- Dr. D.A. Lane, Meteorological Service of Canada: *Field testing of an annular denuder air sampler*
- Drs. R.M. Koerner and D.A. Fisher, Geological Survey of Canada: *Glaciological investigation of atmospheric deposition of POPs and ²¹⁰Pb in the Arctic*

Teaching and Advising

Bermuda Institute of Ocean Sciences (2003-present)

• Course Instruction:

- BIOS Spring Semester Program - Instructor (2026-present)
- BIOS Fall Semester Program - Instructor (2017-present)
- BIOS Summer Course - Modern Observational Oceanography, Instructor (2016-present)
- BIOS-Lehigh University - Oceans and Human Health Course, Instructor (2016)
- BIOS-Furman University - Oceans and Human Health Course, Instructor (2013-2017)
- BIOS-POGO - Centre of Excellence in Observational Oceanography (2008-2013)
- BBSR-Duke University - "Beaufort to Bermuda" Program, Instructor (2006-2007)
- BBSR Graduate Summer Course - Marine Ecotoxicology, Instructor (2003-2004)

• Student Supervision (* = co-mentor):

- MS Thesis Committee, 2024-25, Kayla Tran, School of Ocean Futures, ASU
- NSF Research Experiences for Undergraduates Program:
 - 2012-14 and 2017-present: PI and Program Director
 - 2014-present: Instructor and seminar leader
 - 2004-present: Mentor
 - *Students and Projects:*
 - 2020: J. Ancrì, Rensselaer Polytechnic Institute, *Microplastics in the atmosphere*
 - 2016: C. Harris*, Univ. North Carolina, *H and O isotopes in water vapour and precipitation*
 - 2013: H. Specht, Cornell Univ., *Hydrocarbons in aged oil deposits on Bermuda's shoreline*
 - 2012: J. Rendon, Old Dominion Univ., *Coprostanol in near-shore sediments, Bermuda*
 - 2011: A. Compaan, Univ. North Florida, *PCBs in surface water of the N. Atlantic*
 - 2010: S. Loomis, Eckerd College, *Air quality in Bermuda and regional meteorology*
 - 2009: D. Wyse, George Mason University, *Plastics and POPs in the ocean*
 - 2008: M. Melendez*, University of Puerto Rico, *Marine carbonate dissolution*
 - 2007: K. Darling*, University of California-Berkeley, *Lipids in ocean particle flux traps*
 - 2006: C. Strong, Butler University, *PCBs in the marine atmosphere*
 - 2005: A. Siu, University of California-Berkeley, *Passive sampling of SO₂/NO₂ in air*
 - 2004: P. Pawelzik, State Univ. New York-Syracuse, *Contaminants in groundwater*
- UK Associates of BIOS Research Internship:
 - 2022: L. Brown, University of York, *Marine atmospheric chemistry of halogens and ozone*
 - 2017: C. White, Univ. Plymouth, *Organic nitrogen in marine aerosols*
- Princeton Internships in Community Service:
 - 2025: R. Zimmitti, *Alumni database development*
- Princeton University-BIOS Intern Program:
 - 2012: J. Bocarsly*, *Atmospheric sources of lignin to the surface ocean*

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- 2012: K. Pickering*, *Ecotoxicity of copper in marine sediments*
 - 2011: Y. Zheng*, *Measurements of organic N in the marine atmosphere*
 - 2010: A. Gobel*, *Organic N and major ions in the marine atmosphere*
 - 2007: M. Pecora-Saïpe, *Sources of mercury in Bermuda.*
 - CABIOS Intern Program:
 - 2024: T. Norman, Queen's Univ., *Microplastics in the marine atmosphere*
 - 2010: M. McInnes, Trent Univ., *Air-sea exchange of nonylphenol and nonylphenoethoxylates*
 - BIOS-Galbraith Scholarship Intern Program:
 - 2009: K. Barr, Eckerd College, *HCHs in the marine atmosphere*
 - BIOS Research Intern Program:
 - 2016: I. Salvaterra, Boston College, *Air quality and human health in Bermuda*
 - 2008: B. Li, UBC/UNBC, *Cost-benefit analysis of waste disposal in Bermuda*
 - 2007: C. Funkey, Univ. of Mary Washington, *PAHs in ambient air in Bermuda*
 - 2003: A. Hewitt, Queen's University, *GIS mapping of metals in Bermuda soil*
 - BIOS Bermuda Program:
 - 2022: H. Dill, St. Francis Xavier University, *Meteorological data analysis for THMAO*
 - 2017: R. Stovell, George Washington Univ., *Water quality in Bermuda water tanks*
 - 2014: S. Antonition, Plymouth University, *Emissions inventory for mercury in Bermuda*
 - 2013: W. Halliday*, *Trace metals in macroalgae from the Sargasso Sea*
 - 2012: M. Johnston, Saltus Grammar School, *Meteorology and air quality in Bermuda*
 - 2010: K. Vance, Pacific Union College, *Sewage sterols in near-shore sediment*
 - 2005: J. Bush and M. Gardner, *Laboratory interns*

Bermuda College (2018-2020)

- Co-instructor - Professional Training Seminar: Drinking Water Quality Control

NERC Centre for Ecology and Hydrology (2000-2002)

- Course administration and provision of lectures - Environmental Quality in Rivers for Bournemouth University, School of Conservation Sciences, M.Sc. Environmental Quality degree

Lancaster University, Department of Environmental Science (1996-2000)

- Provision of module on Water Pollution, Regulation and Control for B.Sc. and M.Sc. Environmental Science degrees (ENV353 and ENV404)
- Supervision of M.Sc. and Ph.D. graduate student research activities
- Presentation of *ad hoc* B.Sc. Environmental Science lectures

University of Southampton, Department of Oceanography (1988-1992)

- Supervision of Chemical Oceanography component of annual residential field course for B.Sc. Oceanography programme
- Teaching Assistant for B.Sc. Oceanography classes and supervision of B.Sc. research projects

Fieldwork Experience

Extensive experience of environmental sampling and monitoring of air, water, soil and sediments, including:

- Management of the BIOS Tudor Hill Marine Atmospheric Observatory (2008-present)
- Operation of meteorological and ambient air quality monitoring stations in Bermuda (2003-present)
- Design and implementation of a national soil, water and sediment survey, Bermuda (2005)
- Study of permethrin for controlling nuisance midge swarms at a UK water treatment plant (2000)
- Air sampling and monitoring for POPs at multiple locations in England and Scotland (1996-1999)
- Sampling for POPs and ²¹⁰Pb, Agassiz Ice Cap, Ellesmere Island, NWT, Canada (1993-1995)
- Sampling of Arctic river systems for organic contaminants, NWT, Canada (1992)
- Collection of snow samples for the determination of PAHs, Cairngorm Mountains, Scotland and Montmorency Field Station, INRS-Eau, Université du Québec, Canada (1988-1991)

Symposia and Workshop Activities and Contributions

2025: SOLAS Scientific Steering Committee Meeting, Melbourne, Australia
2025: EGU General Assembly, Vienna, Austria
2024: AGU Fall Meeting, Washington D.C., USA
2024: SOLAS Open Science Conference, Goa, India
2024: EGU General Assembly, Vienna, Austria
2023: AGU Fall Meeting, San Francisco, USA
2022: AGU Fall Meeting, Chicago, USA
2020: Biogeochemistry Research Centre Annual Conference, Univ. Plymouth, UK (Keynote address)
2019: AGU Fall Meeting, San Francisco, USA
2019: OCB US Scoping Workshop on Ocean-Atmosphere Interactions, Sterling, VA, USA
2019: EGU General Assembly, Vienna, Austria
2018: GEO-REU Workshop, Boulder, USA
2017: International Workshop on Marine & Atmospheric Sciences in West Africa, Cape Verde (Invited)
2016: SOLAS Science and Society Workshop, Brussels, Belgium (Session co-chair)
2015: AGU Fall Meeting, San Francisco, USA
2015: EGU General Assembly, Vienna, Austria
2013: AGU Fall Meeting, San Francisco, USA
2013: EGU General Assembly, Vienna, Austria
2012: AGU Fall Meeting, San Francisco, USA
2011: SETAC North America Annual Meeting, Boston, USA
2011: 10th International Conference on Mercury as a Global Pollutant, Halifax, Canada
2010: AGU Fall Meeting, San Francisco, USA
2009: 9th International Conference on Mercury as a Global Pollutant, Guiyang, China
2009: International Conference on Nucleation and Atmospheric Aerosols, Prague, Czech Rep.
2008: ASLO 2008 Ocean Sciences Meeting, Orlando, USA
2006: 8th International Conference on Mercury as a Global Pollutant, Madison, USA
2003: 1st International Coral Reef Ecotoxicology and Health Workshop, BBSR, Bermuda
2002: CEH Annual Conference, Nottingham University, UK
2002: CEH Wetland Research: Scoping Study Workshop, Somerset, UK
2001: CEH Workshop on Aquatic Ecotoxicology, CEH Windermere, UK
2000: CEH Workshop on Hydrology and Freshwater Ecology, CEH Wallingford, UK
1999: 17th International Symposium on Polycyclic Aromatic Compounds, Bordeaux, France
1999: Dioxin99: Halogenated Environmental Organic Pollutants, Venice, Italy
1998: Dioxin98: Halogenated Environmental Organic Pollutants, Stockholm, Sweden
1997: EMEP Expert Meeting on Measurements of POPs in Air and Precipitation, Lillehammer, Norway
1997: 7th Annual Meeting of SETAC-Europe, Amsterdam, Netherlands
1996: COST-66 International Workshop on Pesticides in Soil and the Environment, Stratford, UK
1995: 2nd Annual Workshop on Organic Contaminants in Soil, Water and Sediment, University of Reading, UK
1995: 2nd SETAC World Congress, Vancouver, Canada
1995: Northern Contaminants Program, Institute of Ocean Sciences, Sidney, Canada
1994: Workshop on Techniques for POPs Measurement in Northern Environments, Waterloo, Canada
1993: Northern Contaminants Program Progress Meeting, DFO, Winnipeg, Canada
1993: International Symposium on the Ecological Effects of Airborne Contaminants, Reykjavik, Iceland

Publications

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h-index: 23

i10: 29

69. Marden, L., Shaw, M., Andrews, S., Zmajkovic, M., Rund, P., Alexander, B., Thornton, J., Peters, A., Karadakov, P. and Carpenter, L. (2026) A novel technique for the humidity dependent calibration of hypiodous acid (HOI) and iodine (I₂). *Atmospheric Measurement Techniques*, 19, 2715-2735, doi: 10.5194/amt-19-2715-2026
68. Forman, E., Baldini, J., Jamieson, R.A., Lechleitner, F., Walczak, I., Nita, D., Smith, S.R., Richards, D., Baldini, L., McIntyre, C., Muller, W. and Peters, A. (2025) The Gulf Stream moved northward at the end of the Little Ice Age. *Nature Communications Earth & Environment*, 6(552), doi: 10.1038/s43247-025-023446-3
67. van Doorn, E., Marandino, C.A., Peters, A.J. and Keywood, M. (2024) Science, international law, and policy across the air-sea interface. *Elementa*, 12:1, doi: 10.1525/elementa.2023.00047
66. Neuer, S., Pfirman, S. L., Martin, R. E., Kamelamela, K. L., Maas, A., Peters, A., and Bates, N. (2024). Ocean Futures: A new paradigm and teaching in the age of ocean change. *Copernicus Meetings*, EGU24-13965, doi: 10.5194/egusphere-egu24-13965
65. Pfirman, S. L., Neuer, S., Martin, R. E., Kamelamela, K. L., Maas, A., Peters, A., and Bates, N. (2024). Shaping thriving Ocean Futures – Education to advance healthy coastal communities and marine systems. *Copernicus Meetings*, EGU24-20953, doi: 10.5194/egusphere-egu24-20953
64. Wang, Y., Zhu, Y., Ye, C., Zhou, X., Elshorbany, Y., Hayden, M. and Peters, A.J. (2023) Observational evidence on unknown NO_x source and its perturbation of oxidative capacity in Bermuda's marine boundary layer. *Journal of Geophysical Research: Atmospheres*, 128, doi: 10.1029/2023JD039582
63. Zannoni, D., Steen-Larsen, H.C., Peters, A.J., Wahl, S., Sodemann, H. and Sveinbjörnsdóttir, A.E. (2022) Non-equilibrium fractionation factors for ²H/H and ¹⁸O/¹⁶O during oceanic evaporation in the North-West Atlantic region. *Journal of Geophysical Research: Atmospheres*, 127, doi: 10.1029/2022JD037076
62. Elshorbany, Y., Zhu, Y., Wang, Y., Zhou, X., Ye, C., Sanderfield, S., Stivali, N., Hayden, M. and Peters, A. (2022) Seasonal dependency of the atmospheric oxidizing capacity of the marine boundary layer of Bermuda. *Atmospheric Environment*, 289, 119326, doi: 10.1016/j.atmosenv.2022.119326
61. Zhu, Y., Wang, Y., Zhou, X., Elshorbany, Y., Ye, C., Hayden, M., and Peters, A.J. (2022) An investigation into the chemistry of HONO in the marine boundary layer at Tudor Hill Marine Atmospheric Observatory in Bermuda. *Atmospheric Chemistry and Physics*, 22, 6327-6346, doi: 10.5194/acp-22-6327-2022
60. Dadashazar, H., Alipanah, M., Hilario, M.R.A., Crosbie, E., Kirschler, S., Liu, H., Moore, R., Peters, A.J., Scarino, A., Shook, M., Thornhill, K.L., Voigt, C., Wang, H., Winstead, E., Ziemba, L. and Sorooshian, A. (2021) Aerosol responses to precipitation along North American air trajectories arriving at Bermuda. *Atmospheric Chemistry and Physics*, 21, 16121-16141, doi: 10.5194/acp-21-16121-2021
59. Aldhaif, A.M., Lopez, D.H., Dadashazar, H., Painemal, H., Peters, A.J., and Sorooshian, A. (2021) An aerosol climatology and implications for clouds at a remote marine site: Case study over Bermuda. *Journal of Geophysical Research: Atmospheres*, 126, doi: 10.1029/2020JD034038

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58. Marandino, C., van Doorn, E., McDonald, N., Johnson, M., Açma, B., Brévière, E., Campen, H., Carou, S., Cocco, E., Endres, S., Hilmi, S., Hopkins, F., Liss, P., Maes, F., Mårtensson, M., Oeffner, J., Oloyede, M., Peters, A., Quack, B., Singh, P. and Thomas, H. (2020) From monodisciplinary via multidisciplinary to an interdisciplinary approach investigating air-sea interactions – a SOLAS initiative. *Coastal Management* **48**(4):238-256, doi: 10.1080/08920753.2020.1773208
57. Sveinbjörnsdóttir, A.E., Lacour, J-L., Steen-Larsen, H.C. and Peters, A. (2019) Relation between the water isotopic composition in the North Atlantic marine boundary layer and the boundary layer dynamic. *Geophysical Research Abstracts* **21**, EGU2019-18398
56. Benetti, M., Lacour, J-L., Sveinbjörnsdóttir, A.E., Aloisi, G., Reverdin, G., Risi, C., Peters, A.I. and Steen-Larsen, H.C. (2018) A framework to study mixing processes in the marine boundary layer using water vapor isotope measurements. *Geophysical Research Letters* **45**:2524-2532, doi: 10.1002/2018GL077167
55. Hochberg, E.J., Peters, A.I., Noyes, T.J. and Peltier, S.A. (2018) *Environmental Assessment of the Sea Water Reverse Osmosis Outfall*, Bermuda Waterworks, Ltd., Final Report, September 2018. Bermuda Institute of Ocean Sciences, 25pp.
54. Benetti, M., Steen-Larsen, H.C., Reverdin, G., Sveinbjörnsdóttir, A.E., Aloisi, G., Berkelhammer, M.B., Bourlès, B., Bourras, D., de Coetlogon, G., Cosgrove, A., Faber, A., Grelet, J., Hansen, S.B., Johnson, R., Legoff, H., Martin, N., Peters, A.I., Popp, T.J., Reynaud, T. and Winther, M.N. (2017) Stable isotopes in the atmospheric marine boundary layer water vapour over the Atlantic Ocean, 2012-2015. *Nature Scientific Data* **4**:160128, doi: 10.1038/sdata.2016.128
53. Berkelhammer, M., Steen-Larsen, H.C., Cosgrove, A., Peters, A.I., Johnson, R. and Hayden, M. (2016) Radiation and atmospheric circulation controls on carbonyl sulfide concentrations in the marine boundary layer. *Journal of Geophysical Research: Atmospheres* **121**, 13,113-13,128, doi:10.1002/2016JD025437
52. Altieri, K.E., Fawcett, S.E., Peters, A.I., Sigman, D.M. and Hastings, M.G. (2016) Marine biogenic source of atmospheric organic nitrogen in the subtropical North Atlantic. *Proceedings of the National Academy of Sciences* **113**:925-930, doi:10.1073/pnas.1516847113
51. Steen-Larsen, H.C., Sveinbjörnsdóttir, A.E., Peters, A.I., Masson-Delmotte, V. (2015) Climatic controls on water vapor deuterium excess in the marine boundary layer of the North Atlantic based on 500 days of in situ, continuous measurements. *Geophysical Research Abstracts* **17**, EGU2015-10838
50. Altieri, K.E., Hastings, M.G., Peters, A.I., Oleynik, S. and Sigman, D.M. (2014) Isotopic evidence for a marine ammonium source in rainwater at Bermuda. *Global Biogeochemical Cycles* **28**:1066-1080
49. Steen-Larsen, H.C., Sveinbjörnsdóttir, A.E., Peters, A.I., Masson-Delmotte, V., Guishard, M.P., Hsiao, G., Jouzel, J., Noone, D., Warren, J.K. and White, J.W.C. (2014) Climatic controls on water vapor deuterium excess in the marine boundary layer of the North Atlantic based on 500 days of in situ, continuous measurements. *Atmospheric Chemistry and Physics* **14**:7741-7756
48. Peters, A.I. and Siuda, A.N.S. (2014) A review of observations of floating tar in the Sargasso Sea. *Oceanography* **27**(1):217-221
47. Gobel, A.R., Altieri, K.E., Peters, A.I., Hastings, M.G. and Sigman, D.M. (2013) Insights into anthropogenic nitrogen deposition to the North Atlantic investigated using the isotopic composition of aerosol and rainwater nitrate. *Geophysical Research Letters* **40**:1-6
46. Altieri, K.E., Hastings, M.G., Gobel, A.R., Peters, A.I. and Sigman, D.M. (2013) Isotopic composition of rainwater nitrate at Bermuda: The influence of air mass source and chemistry in the marine boundary layer. *Journal of Geophysical Research: Atmospheres* **118**:11,304-11,316

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45. McInnes, M.A., Ellis, D.A., Webster, E.M. and Peters, A. (2013) Sea spray and the atmospheric transport of nonylphenol ethoxylates. A combined laboratory, field and modeling study. *Atmospheric Environment* **69**:304-312
 44. Steen-Larsen, H.C., Sveinbjörnsdóttir, A.E., Werner, M., Risi, C., Yoshimura, K., Peters, A. and Rosset, J. (2013) Continuous water vapor isotopic composition observations in the sub-tropical North Atlantic (Bermuda). *Geophysical Research Abstracts* **15**, EGU2013-6847.
 43. Altieri, K.E., Hastings, M.G., Peters, A.I. and Sigman, D.M. (2012) Molecular characterization of water-soluble organic nitrogen in marine rainwater by ultra-high resolution electrospray ionization mass spectrometry. *Atmospheric Chemistry and Physics* **12**:3557-3571
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