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# *Andrew J. Peters BSc, PhD*

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		<b>Citizenship:</b>	UK citizen

## **Employment**

### **Current:**

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

*2017-present:* Director of Education, University Programs

- Administrative and financial management of undergraduate and postgraduate programs at BIOS

*2003-present:* Associate Scientist

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

### **Previous:**

#### **NERC Centre for Ecology and Hydrology - Dorset, UK**

*2000-2003:* Research Scientist

- 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 <sup>210</sup>Pb dating technique for glaciological studies
- Monitoring the fluvial flux of contaminants to the Arctic Ocean

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## **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
- SOLAS Science and Society Workshops, October 2016 and June 2017, session co-chair
- Panel reviewer for Gulf of Mexico Research Initiative RFP-V (2015) and RFP-VI (2017)
- Reviewer for research grants, inc. NSF, NOAA, Leverhulme Trust, Canadian Foundation for Climate and Atmospheric Sciences, Antarctica New Zealand
- Reviewer for academic journals, inc. *Environ. Sci. Technol.*, *Environ. Poll.*, *Chemosphere*
- 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

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## Research Activities and Funding

### **Pending Funding Applications:**

#### **Current Funding (Principal Investigator):**

- 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
- NOAA: *Global Monitoring Division, Operations Support, 2020-2025* - \$US 177,701
- Government of Bermuda: *Bermuda Air Quality Program* - \$US 230,000 per year

#### **Previous Funding (Principal Investigator):**

- 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
- Government of Bermuda: *Bermuda Air Quality Program, 2003-present* - \$US 230,000 per year
- 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 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 CO<sub>2</sub> 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

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### **Current External Collaborations:**

- Dr. H-C. Steen-Larsen, Geophysical Institute, University of Bergen, Norway: *Isotopic composition of water vapour in the atmosphere of the North Atlantic*
- Dr. T. Harner: Meteorological Service of Canada: *Air sampling for POPs*

### **Previous Collaborative Partners:**

- 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*
- Drs. J.N. Cape, U. Skiba and A. Meharg, ITE Edinburgh, UK: *Air-surface contaminant fluxes*
- 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 <sup>210</sup>Pb in the Arctic*

## **Teaching Experience**

### **Bermuda Institute of Ocean Sciences (2003-present):**

- **Courses**
  - 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, Co-Director and Instructor (2012-2013), Instructor (2008-2013)
  - BBSR-Duke University - "Beaufort to Bermuda" Program, Instructor (2006-2007)
  - BBSR Graduate Summer Course - Marine Ecotoxicology, Instructor (2003-2004)
- **Mentoring** (\* = co-mentor)
  - 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. Ancri, 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 SO<sub>2</sub>/NO<sub>2</sub> in air*
    - 2004: P. Pawelzik, State Univ. New York-Syracuse, *Contaminants in groundwater*

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- UK Associates of BIOS Research Internship:
    - 2017: C. White, Univ. Plymouth, *Organic nitrogen in marine aerosols*
  - Princeton University-BIOS Intern Program:
    - 2012: J. Bocarsly\*, *Atmospheric sources of lignin to the surface ocean*
    - 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:
    - 2010: M. McInnes, *Air-sea exchange of nonylphenol and nonylphenoethoxylates*
  - BIOS-Galbraith Scholarship Intern Program:
    - 2009: K. Barr, Eckerd College, USA. *HCHs in the marine atmosphere*
  - BIOS Research Intern Program:
    - 2016: I. Salvaterra, Boston College, USA. *Air quality and human health in Bermuda*
    - 2008: B. Li, UBC/UNBC, Canada. *Cost-benefit analysis of waste disposal in Bermuda*
    - 2007: C. Funkey, Univ. of Mary Washington, USA. *PAHs in ambient air in Bermuda*
    - 2003: A. Hewitt, Queen's University, Canada. *GIS mapping of metals in Bermuda soil*
  - BIOS Bermuda Program:
    - 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, USA. *Sewage sterols in near-shore sediment*
    - 2005: J. Bush and M. Gardner, *Laboratory interns*

**Bermuda College (2018-current):**

- 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 B.Sc. Environmental Science lectures

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

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

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## **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 an island-wide 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 <sup>210</sup>Pb, 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**

**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:** 1<sup>st</sup> 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:** 17<sup>th</sup> 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:** 7<sup>th</sup> Annual Meeting of SETAC-Europe, Amsterdam, Netherlands

**1996:** COST-66 International Workshop on Pesticides in Soil and the Environment, Stratford, UK

**1995:** 2<sup>nd</sup> Annual Workshop on Organic Contaminants in Soil, Water and Sediment, University of Reading, UK

**1995:** 2<sup>nd</sup> 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

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## Publications

**ORCID id:** 0000-0003-4112-2728

**h-index:** 20

**i10:** 25

### **In Preparation, Submitted and In Press:**

3. Zhu, Y., Wang, Y., Zhou, X., Elshorbany, Y., Ye, C., Hayden, M., and Peters, A.J. (submitted) An investigation into the chemistry of HONO in the marine boundary layer at Tudor Hill Marine Atmospheric Observatory in Bermuda. *Atmospheric Chemistry and Physics*
2. Zannoni, D., Steen-Larsen, H.C., Peters, A.J., Wahl, S., Sodemann, H. and Sveinbjörnsdóttir, A.E. (submitted) Kinetic fractionation factors for ocean evaporation. *Proceedings of the National Academy of Sciences*
1. Elshorbany, Y., Zhu, Y., Wang, Y., Zhou, X., Ye, C., Sanderfield, S., Stivali, N., Hayden, M. and Peters, A. (submitted) Seasonal dependency of the atmospheric oxidizing capacity of the marine boundary layer of Bermuda. *Journal of Geophysical Research*

### **Peer-Reviewed Journals:**

30. 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
29. 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
28. 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
27. Benetti, M., Lacour, J.-L., Sveinbjörnsdóttir, A.E., Aloisi, G., Reverdin, G., Risi, C., Peters, A.J. 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
26. 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.J., 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. *Scientific Data* **4**:160128, doi: 10.1038/sdata.2016.128
25. Berkelhammer, M., Steen-Larsen, H.C., Cosgrove, A., Peters, A.J., 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

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24. Altieri, K.E., Fawcett, S.E., Peters, A.J., 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
  23. Altieri, K.E., Hastings, M.G., Peters, A.J., Oleynik, S. and Sigman, D.M. (2014) Isotopic evidence for a marine ammonium source in rainwater at Bermuda. *Global Biogeochemical Cycles* **28**:1066-1080
  22. Steen-Larsen, H.C., Sveinbjörnsdóttir, A.E., Peters, A.J., 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
  21. Peters, A.J. and Siuda, A.N.S. (2014) A review of observations of floating tar in the Sargasso Sea. *Oceanography* **27**(1):217-221
  20. Gobel, A.R., Altieri, K.E., Peters, A.J., 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
  19. Altieri, K.E., Hastings, M.G., Gobel, A.R., Peters, A.J. 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
  18. 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
  17. Altieri, K.E., Hastings, M.G., Peters, A.J. 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
  16. Shoeib, M., Vlahos, P., Harner, T., Peters, A., Graustein, M. and Narayan, J. (2010) Survey of polyfluorinated chemicals (PFCs) in the atmosphere over the northeast Atlantic Ocean - Bermuda, Sable Island and coastal USA. *Atmospheric Environment* **44**:2887-2893
  15. Peters, A.J., Weidner, K.L. and Howley, C.L. (2008) The chemical water quality in roof-harvested water cisterns in Bermuda. *Journal of Water Supply: Research and Technology-AQUA* **57**:153-163
  14. Bates, N.R. and Peters, A.J. (2007) The contribution of atmospheric acid deposition to ocean acidification in the subtropical North Atlantic Ocean. *Marine Chemistry* **107**:547-558
  13. Harner, T., Pozo-Gallardo, K., Gouin, T., Macdonald, A.M., Hung, H., Caine, J. and Peters, A. (2006) Global pilot study for persistent organic pollutants (POPs) using PUF disk passive air samplers. *Environmental Pollution* **144**:445-452
  12. Schönrogge, K., Wardlaw, J.C., Peters, A.J., Everett, S., Thomas, J.A. and Elmes, G.W. (2004) Changes in chemical signature and host specificity from larval retrieval to full social integration in the myrmecophilous butterfly *Maculinea rebeli* (Lepidoptera: Lycaenidae). *Journal of Chemical Ecology* **30**: 91-107
  11. Peters, A.J., Armitage, P.D., Everett, S.J. and House, W.A. (2003) Control of nuisance chironomid midge swarms from a slow sand filter. *Journal of Water Supply: Research and Technology-AQUA* **52**:109-118



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10. Meijer, S., Halsall, C.J., Peters, A.J., Harner, T.J., Johnston, A.E. and Jones, K.C. (2001) Organochlorine pesticide residues in archived UK soil. *Environmental Science and Technology* **35**:1989-1995
  9. Peters, A.J., Jones, K.C., Flower, R.J., Appleby, P.G., Ramdani, M., Kraiem, M.M. and Fathi, A.A. (2001) Recent environmental change in North African wetland lakes: A baseline study of organochlorine contaminant residues in sediments from nine sites in the CASSARINA project. *Aquatic Ecology* **35**:449-459
  8. Peters, A.J., Lane, D.A., Gundel, L.A., Northcott, G.L. and Jones, K.C. (2000) A comparison of high volume and diffusion denuder samplers for measuring semi-volatile organic compounds in the atmosphere. *Environmental Science and Technology* **34**:5001-5006
  7. Lane, D.A., Peters, A.J., Gundel, L.A., Jones, K.C. and Northcott, G.L. (2000) Gas/particle partition measurements of PAH at Hazelrigg, UK. *Polycyclic Aromatic Compounds* **20**:225-234
  6. Gregor, D.J. and Peters, A.J. (2000) Comment on "Delayed deposition of organochlorine pesticides at a temperate glacier". *Environmental Science and Technology* **34**:2871-2872
  5. Peters, A.J., Tomy, G.T., Jones, K.C., Coleman, P. and Stern, G.A. (2000) Occurrence of C<sub>10</sub>-C<sub>13</sub> polychlorinated *n*-alkanes in the UK atmosphere. *Atmospheric Environment* **34**:3085-3090
  4. Rae, J.E., Cooper, C.S., Parker, A. and Peters, A. (1998) Pesticide sorption onto aquifer sediments. *Journal of Geochemical Exploration* **64**:263-276
  3. Peters, A.J., Gregor, D.J., Wilkinson, P. and Spencer, C. (1997) The deposition of <sup>210</sup>Pb to the Agassiz Ice Cap, Canada. *Journal of Geophysical Research* **102 (D5)**:5971-5978
  2. Peters, A.J., Gregor, D.J., Teixeira, C., Jones, N. and Spencer C. (1995) The recent depositional trend of polycyclic aromatic hydrocarbons and elemental carbon to the Agassiz Ice Cap, Ellesmere I., Canada. *Science of the Total Environment* **160/161**:167-179
  1. Gregor, D.J., Peters, A.J., Teixeira, C., Jones, N. and Spencer C. (1995) The historical residue trend of PCBs in the Agassiz Ice Cap, Ellesmere I., Canada. *Science of the Total Environment* **160/161**:117-126

#### **Other Journals, Abstracts and Proceedings:**

14. 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
13. Steen-Larsen, H.C., Sveinbjörnsdóttir, A.E., Peters, A.J., 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
12. 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.
11. Steen-Larsen, H.C., Sveinbjörnsdóttir, A.E., Peters, A. and Rosset, J. (2012) Monitoring the water vapor isotopic composition in the sub-tropical North Atlantic. *Geophysical Research Abstracts* **14**, EGU2012-1563.
10. McInnes, M., Peters, A.J. and Ellis, D.A. (2011) The measurement of nonylphenol in aqueous aerosols and marine waters in the Bermuda coastal region and Atlantic Ocean. *Abstracts of the Society of Environmental Toxicology and Chemistry North America 32nd Annual Meeting, Boston, USA.*

- 
9. Meléndez, M., Andersson, A. and Peters, A. (2009) Estimates of calcium carbonate dissolution rates under elevated CO<sub>2</sub> conditions in Devil's Hole, Bermuda. *Abstracts of the 38th Annual Benthic Ecology Meeting*, Corpus Christi, Texas, March 4-7, 2009.
  8. Ceburnis, D., Dupuy, R., Morcrette, J.-J., O'Dowd, C.D. and Peters, A.I. (2009) Validation of aerosol chemical components predicted by ECMWF IFS model. *Proc. Intern. Conf. on Nucleation and Atmospheric Aerosols 2009*.
  7. Peters, A.I., Coleman, P. and Jones, K.C. (1999) Organochlorine pesticides in UK air. *Organohalogen Compounds* **41**:447-450
  6. Jones, K.C., Howsam, M., Lee, R.G.M., A. Peters, Smith, K., Sweetman, A. and Thomas, G.O. (1999) Recent studies on air-terrestrial surface exchange of POPs in the UK. *Abstracts of Papers of the American Chemical Society* **217**:090-ENVR
  5. Peters, A.I., Tomy, G.T, Stern, G.A. and Jones, K.C. (1998) Polychlorinated *n*-alkanes in the atmosphere of the United Kingdom and Canada: Analytical methodology and evidence of the potential for long-range transport. *Organohalogen Compounds* **35**:439-442
  4. Gregor, D.J., Koerner, R.M., Fisher, D., Bourgeois, J., Nriagu, J., Alae, M., Peters, A., Lawson, G., Jones, N. and Doubleday, N. (1994) The historical record of persistent organic pollutants and trace metals in glacial snow/ice. in: *Environmental Studies 72, Synopsis of Research Conducted Under the 1993/94 Northern Contaminants Program*, Environment Canada, Ottawa.
  3. Alae, M., Barrie, L., Gregor, D. and Peters, A. (1994) Polychlorinated dibenzodioxins/furans in the Arctic environment. in: *Environmental Studies 72, Synopsis of Research Conducted Under the 1993/94 Northern Contaminants Program*, Environment Canada, Ottawa.
  2. Gregor, D.J., McDonald, S., Ross, D., Brumwell, C., Whitley, G., Palmer, M., Alae, M., Peters, A., Teixeira, C. and Jones, N. (1993) Current contaminant deposition measurements in precipitation. in: *Env. Studies 70, Synopsis of Research - 1992/93 Northern Contaminants Program*, Environment Canada, Ottawa.
  1. Gregor, D.J., Koerner, R.M., Peters, A., Alae, M., Jones, N., Teixeira, C., Nriagu, J., Lawson, G. and Doubleday, N. (1993) The historical record of persistent organic pollutants and trace metals in glacial snow/ice. in: *Env. Studies 70, Synopsis of Research - 1992/93 Northern Contaminants Program*, Environment Canada, Ottawa.

#### **Reports, Books, and Other Contributions:**

- Peters, A.I. Monthly and annual ambient air quality reports submitted to the Department of Environment and Natural Resources, Government of Bermuda, 2005-present.
16. 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.

- 
15. Laffoley, D.d'A., Roe, H.S.J., Angel, M.V., Ardron, J., Bates, N.R., Boyd, I.L., Brooke, S., Buck, K.N., Carlson, C.A., Causey, B., Conte, M.H., Christiansen, S., Cleary, J., Donnelly, J., Earle, S.A., Edwards, R., Gjerde, K.M., Giovannoni, S.J., Gulick, S., Gollock, M., Hallet, J., Halpin, P., Hanel, R., Hemphill, A., Johnson, R.J., Knap, A.H., Lomas, M.W., McKenna, S.A., Miller, M.J., Miller, P., Ming, F.W., Moffitt, R., Nelson, N.B., Parson, L., Peters, A.I., Pitt, J., Rouja, P., Roberts, J., Roberts, J., Seigel, D.A., Siuda, A., Steinberg, D.K., Stevenson, A., Sumaila, V.R., Swartz, W., Trott, T.M., and Vats, V. (2011) *The protection and management of the Sargasso Sea: The golden floating rainforest of the Atlantic Ocean*. Summary Science Case. Sargasso Sea Alliance, 53pp.
  14. Peters, A.I. (2011) Organic Contaminants in the Sargasso Sea. in: *Oceanography of the Sargasso Sea - Overview of Scientific Studies*, eds. Lomas, M.W., Bates, N.R., Buck, K.N. and Knap, A.J. Bermuda Institute of Ocean Sciences, 94pp.
  13. Bates, N.R. and Peters, A.I. (2011) Atmospheric Deposition and Acid Precipitation. in: *Oceanography of the Sargasso Sea - Overview of Scientific Studies*, eds. Lomas, M.W., Bates, N.R., Buck, K.N. and Knap, A.J. Bermuda Institute of Ocean Sciences, 94pp.
  12. Li, B. and Peters, A.I. (2008) *A Cost-Benefit Analysis of Waste Management and Recycling in Bermuda*. CABIOS Intern Program Report, submitted to Dept. of Environmental Protection and the Ministry of Works and Engineering, Govt. of Bermuda.
  11. Peters, A.I., Mason, R.P. and Pecora-Saipe, M. (2008) *The BIOS Bermuda Mercury Program: An Investigation of Sources of Mercury in Bermuda*. Final report to the Dept. of Environmental Protection, Govt. of Bermuda.
  10. Peters, A.I. (2007) *Environment Bermuda: Investigation of an Air Quality Complaint at "Bluebird", Pembroke*. Final report to the Dept. of Environmental Protection, Govt. of Bermuda.
  9. Peters, A.I. (2006) *Environment Bermuda: Soil And Water Tank Survey 2005*. Final report to the Dept. of Environmental Protection, Govt. of Bermuda.
  8. Jones, R. and Peters, A.I. (2005) Groundwater Pesticide and Hydrocarbon monitoring; in: *Marine Environmental Program (MEP) Annual Report - April 2004-2005*, submitted to Dept. of Environmental Protection, Govt. of Bermuda.
  7. Peters, A.I. (2005) in: *State of the Environment Report*, Marshall, J., DeSilva, H. and Doran, T. (eds), Ministry of the Environment, Government of Bermuda.
  6. Peters, A.I., Simmons, K. and Knap, A. (2004) *Atmospheric and Terrestrial Studies 1994-2000: Survey Data Analysis Report*. Final report to the Dept. of Environmental Protection, Govt. of Bermuda.
  5. Smith, J., Peters, A.I. and Osborn, D. (2002) *Scoping study of watercourse pollution incidents: A review of past watercourse pollution incidents and their impact on food safety* - Final report to the UK Food Standards Agency. CEH Project No. C01670, CEH Dorset.
  4. Peters, A.I., Armitage, P.D. and Everett, S.J. (2001) *Control of Chironomid midges in slow sand filter beds*. Final report to BWHW plc. CEH Project No. C01668, CEH Dorset.
  3. Peters, A.I., Jones, K.C. and Coleman, P. (1999) *The United Kingdom Atmospheric Persistent Organic Pollutants Monitoring Programme, 1997-1999*. Final report prepared for the Department of the Environment, Transport and the Regions. Contract no. EPG/1/3/69, Lancaster University.

- 
2. Coleman, P.J., Donovan, B.J., Campbell, G.W., Watterson, J.D., Jones, K.C., Lee, R.G.M. and Peters, A.J. (1998) *Results from the Toxic Organic Micropollutants (TOMPS) Network: 1991 to 1997*. AEA Technology report 2167, May 1998, AEA Technology, Culham.
  1. Peters, A.J. and Jones, K.C. (1997) *Preliminary Results from the Persistent Organic Pollutants Air Monitoring Programme*. Progress report prepared for AEA Technology/Department of the Environment, Transport and the Regions. Contract no. EPG/1/3/69, Lancaster University.