CURRICULUM VITAE: PROFESSOR BENJAMIN PETER HORTON

Asian School of the Environment, Nanyang Technological University, 50 Nanyang View, Singapore 639798.
Tel: +65 9172 0550; Email: bphorton@ntu.edu.sg;
http://www.ase.ntu.edu.sg/content/benjamin-peter-horton

EDUCATION

1994 – 1998: PhD in Geography, University of Durham, UK.

1989 – 1992: BA Honors in Geography, University of Liverpool, UK.

EMPLOYMENT HISTORY

2020 – : Director of the Earth Observatory of Singapore, Nanyang Technological University, Singapore.

2018 – 2020: Chair, Asian School of the Environment, Nanyang Technological University, Singapore.

2013 – : Professor, Asian School of the Environment, Nanyang Technological University, Singapore.

2013 – 2017: Professor, Department of Marine and Coastal Sciences, Rutgers University, USA.

2004 – 2013: Associate and Assistant Professor, Department of Earth and Environmental Science, University of Pennsylvania, USA.

1998 – 2004: Lecturer in Geography and Postdoctoral Research Associate, Department of Geography, University of Durham, UK.

HONORS AND AWARDS

- Fellow of NTU Institute of Science and Technology for Humanity (2020).
- Member of World Climate Research Programme Grand Challenge on Regional Sea Level Change and Coastal Impacts (2020)
- Nanyang Technological University President's Chair in Earth Sciences (2019)
- Geological Society of America Frye Award (2019)
- Fellow of the American Geophysical Union (2018).
- Inducted into the World Class Professor Program by the *Directorate of Higher Education of Indonesia* (2018).
- Fellowship at the Institute of Advanced Studies of the Alma Mater Studiorum University of Bologna (2018).
- Visiting Professor, Department of Marine and Coastal Sciences, Rutgers University, USA (2017).
- Councilor for Marine Geoprocesses (2016-2020) for the American Quaternary Association (AMQUA).
- Plinius Medal of the *European Geosciences Union* (2016).
- Voyager Award of the *American Geophysical Union* (2014).
- Denis and Jean Wiesenburg Distinguished Lecture in Ocean Science (2014).
- Fellow of the Geological Society of America (2013).
- Fellow of the University of Pennsylvania (2012).
- Medal for Research Excellence by the Commanding General of the North Atlantic Division of the *United States Army Corps of Engineers* (USACE) (2010).
- The W. Storrs Cole Memorial Research Award of the *Geological Society of America* (2007).
- Honorary Research Fellow, Department of Geography, *University of Durham*, UK (2004).
- The Linnean Society (UK) Award for contributions to biological diversity and evolution (2004).
- The Higher Education Funding Council for England Excellence in Teaching Award (2003).

- Menzies Australian Bicentennial Award for promoting scholarship, intellectual links, and mutual awareness and understanding between the United Kingdom and Australia (2001).

MAIN ACHIEVEMENTS

- Research cited by President Obama in his 2015 State of the Union Address at the United States Capitol on 20th January 2015 and tweeted by President Obama on 1st March 2016.
- Awards from *European Geosciences Union (*Plinius Medal 2016*), American Geophysical Union* (Voyager Award 2014) and the *Geological Society of America* (W. Storrs Cole Memorial Research Award 2007).
- Fellow of the *Geological Society of America* (2013) and Fellow of the American Geophysical Union (2018).
- Published over 210 articles in peer-reviewed journals, including 29 articles in *Science*, *Proceedings of the National Academy of Sciences*, *Nature Geoscience, Nature Communications, Nature Scientific Reports, Earth Science Reviews, Annual Reviews* and *Geology*. Published eight books or edited volumes including the *Handbook of Sea-Level Research*.
- Supervisor to 24 students to the degree of PhD and 22 postdoctoral scientists, of which 17 now occupy permanent academic positions.
- Uninterrupted external support of research program from 2004 to 2020, which totals more than ~SG$19 million, including Academic Research Fund (AcRF) Tier 3 Grant (2019).
- Developed a new quantitative approach to reconstruct former sea-level changes.
- Established the Holocene sea-level database for the Atlantic and Pacific coasts of the North America, Caribbean, United Kingdom, Malay-Thai Peninsula, and Russia.

COMMITTEES

- Member of World Climate Research Programme's Grand Challenge of on Regional Sea Level Change and Coastal Impacts (2020-2022).
- Review Editor (RA) to the Intergovernmental Panel on Climate Change (IPCC) 6th Assessment Report (2018-2021).
- AMQUA Council as a Councilor for Marine Geoprocesses (2016-2020).
- European Geosciences Union awards and medal committee (2016 to present).
- Associate Editor of Anthropocene (2014-present).
- Associate Editor of Current Climate Change Reports (2014-present).
- Guest Editor of a Quaternary Science Reviews Special Publications (2009, 2012, 2014, 2019).
- Associate Editor of Journal of Foraminiferal Research (2008-2014).
- Member of the PALSEA (PALeo-constraints on SEA-level rise) steering committee (2010-present).
- Advisory board member of International Union for Quaternary Science (INQUA)'s Commission for Coastal and Marine Processes (2011-present).
- Contributing Author (CA) to the Intergovernmental Panel on Climate Change (IPCC) 5th Assessment Report (5AR) Working Group I and Expert Reviewer for Working Group III (2011-2013).
- Project leader of International Geoscience Programme (IGCP) 588 'Preparing for coastal change: A detailed process-response framework for coastal change at different timescales' (2010-2014).
- Scientific advisor to The Future Ocean research of the German Research Foundation (2010-2014).
- Member of the Review Panel for the Helmholtz Program Geosystem: the changing Earth (2009-2013).
- Joint Chair of American Quaternary Association (AMQUA) Biennial Meeting 'Quaternary Ice Sheet-Ocean Interactions and Landscape Responses' (2008).

- Joint Convener of the Geological Society of America's Pardee Keynote Symposia Holocene Sea-level Change in North America: A Post-Katrina Assessment (2006).
- Committee member of the National Research Council, USA for Sea Level Rise in California, Oregon, and Washington (2011-2012).
- Delaware Sea Level Rise Projections Panel (2017). Report won the 2019 Geological Society of America (GSA) Frye Award
- New Jersey Sea Level Rise Projections Panel (2015).
- Maryland Sea Level Rise Projections Update Panel (2013).

OUTREACH ACTIVITIES

- Research cited by President Obama in his 2015 State of the Union Address at the United States Capitol on January 20, 2015 and tweeted by President Obama on 1st March 2016.
- Principal investigator of an Earthwatch Student Challenge Awards Program (SCAP) for high school students (2007-2015).
- Public lectures including TEDx, National Fish and Wildlife, National Wildlife Refuge, the Presbyterian Church, Penn and Rutgers Alumni Clubs, U.S. Army Corps of Engineers, U.S. Oceanographer of the Navy, Penn Humanities Forum, Martha's Vineyard Film Festival, Pulitzer Center on Crisis Reporting, National Association of REALTORS.
- Seminars and workshops to High School and Junior Colleges in the US and Singapore.
- Appearances on national and local television, radio and newspapers, including BBC, NPR, WHYY, NBC, USA Today, Voice of Russia, Climate Nexus, CAN, Straits Times.
- Harrison College Faculty Fellow, University of Pennsylvania (2004-2007) in residence full-time with 850 students and College Tutor.
- Hatfield College tutor, University of Durham (1999-2003), UK with 300 students; served as an academic mentor and advisor.
- Committee member of the *National Research Council*, USA for Sea Level Rise in California, Oregon, and Washington (2011-2012), Maryland Sea Level Rise Projections Update Panel (2013), New Jersey Sea Level Rise Projections Panel (2015), Delaware Sea Level Rise Projections Panel (2016).

DEPARTMENT AND UNIVERSITY SERVICE

- President's Chair in Earth Sciences
- Chair, Asian School of the Environment.
- Associate Chair, Asian School of the Environment.
- Member of the Department of Marine and Coastal Science's Graduate Committee.
- Member of the Department of Marine and Coastal Science's Tenure and Promotion Committee.
- Speaker at the *Experience Rutgers: Climate Change* receptions.
- Chair of the Faculty Search Committee for a Full/Associate Professor, University of Pennsylvania.
- Member of the Department of Earth and Environmental Science's Graduate Committee.
- Member of the Department of Earth and Environmental Science's Tenure Committee.
- Member of the Faculty Selection Committee for three successful Assistant Professor searches to the Department of Earth and Environmental Science.
- Mentor to Dr Irina Marinov and Dr Jane Willenbring, Assistant Professors. Mentor or Fidel Costa and Emma Hill, Associate Professors

GRADUATE STUDENTS SUPERVISED (N=26)

- Nanyang Technological University: Tan Fang Yi (PhD, 2019 to present), Christabel Tan Wan Jie (PhD, 2020 to present), Yudhishthra Nathan (PhD, 2020 to present)
- Rutgers University: Kristen Joyse (PhD 2017 to present), Isabel Hong (PhD 2019), Jennifer Walker (PhD 2019), Chen Huixian (PhD 2019), Erica Ashe (PhD 2018).
- University of Pennsylvania: Andrea Hawkes (PhD, 2008), Chris Bernhardt (PhD 2009), Andrew Kemp (PhD 2009), Simon Engelhart (PhD 2009), Candace Grand Pre (PhD 2011), Simin Liu (MSc 2012). Nicole Khan (PhD 2013), Tina Dura (PhD 2014).
- University of Durham: Matt Brain (PhD 2006), Sarah Woodroffe (PhD 2006), Caroline Hillier (PhD 2007), Katie Thomson (PhD, 2009), Mike Hardbattle (MSc 2004), Simon Engelhart (MSc, 2005).
- Others: Andrew Parnell (PhD 2005), University of Sheffield, UK; Andrew Berkeley (PhD 2006), Manchester Metropolitan University, UK; Anthony Brooks (PhD 2007), Trinity College Dublin; Veronica Rossi (PhD 2008), University of Bologna, Italy.

EXTERNAL COMMITTEE MEMBER OR EXAMINER (N =9)

- Jędrzej Majewski (PhD), NTU, Singapore; Jacqueline McSweeney (PhD), Rutgers, USA; Heidi Romine (PhD), Virginia Institute for Marine Science, USA; Kevin Burdette (MRes), Candace Grand Pre (MRes), Mary Metger, (MRes), East Carolina University, USA; Lucia Perez-Belmonte (PhD) Universite Bretagne Sud, France; Niamh Cahill (PhD), University College Dublin, Ireland; Nicole Leonard (PhD), University of Queensland, Australia.

POST-DOCTORAL SCHOLARS SPONSORED (N = 22)

- Tim Shaw (2014 to present), Jędrzej Majewski (2018 to present), Tanghua Li (2019 to present), Geoff Richards (2019 to present), Huixian Chen (2019 to present), Dhrubajyoti Samanta (2020 to present), Stephen Chua Chong Wei (2020 to present).
- Caroline Hillier (2004-2005), Andrew Kemp (2009-2013), Simon Engelhart (2010-2013), Yvonne Milker (2012-2014), Jessica Pilarczyk (2011-2015), Jennifer Clear (2015-2017), Tina Dura (2015 to 2017), Ane García Artola (2015 to 2018), Andra Garner (2016 to 2019) Peter Parham (2017 to 2019), Nicole Khan (2018 to 2019), Qiu Qiang (2019), Keven Roy (2017 to 2019), Margaret Christie (2017 to 2019), Isabel Hong (2020).

ACADEMIC EMPLOYERS OF GRADUATE STUDENTS AND POST-DOCTORAL SCHOLARS (N = 17)

Professors Andrew Parnell (The National University of Ireland, Maynooth) and Andrea Hawkes (University of North Carolina, USA).

Dr Chris Bernhardt (Center Director, United States Geological Survey).

Associate Professors Simon Engelhart (University of Rhode Island, USA; Durham University UK); Sarah Woodroffe (Durham University UK); Andrew Kemp (Tufts University, USA).

Assistant Professors Matt Brain (Durham University, UK); Margaret Christie (McDaniel), Jennifer Clear (Liverpool Hope University); Tina Dura (Virginia Tech, USA); Ane García Artola (University of Basque Country, Spain); Andra Garner (Rowan, USA); Nicole Khan (Hong Kong University); Yvonne Milker (University of Hamburg, Germany); Jessica Pilarczyk (Simon Fraser University, Canada); Veronica Rossi (University of Bologna, Italy); Qiu Qiang (Chinese Academy of Science).

MAJOR RESEARCH GRANTS

Total funds awarded to Horton from 2004-2020 is SG$18,985,408.

MINISTRY OF EDUCATION, SINGAPORE

Current

- Tier3. Southeast Asia SEA-Level program (SEA^2); PI; $9,114,640
- Tier 2. Relative sea-level changes along the Northern Sea Route: from patterns and rates to drivers and mechanisms; PI; $654,140; 2021-2024
- Tier 2. The contribution of solid Earth deformation to sea-level change; PI; $471,500; 2018-2020.
- Tier 1. Reconstruction of Holocene sea level using rock-encrusting oysters and coral microatolls; PI; $98,986 2018-2020.
- Reconstructing rates and magnitudes of Holocene sea-level change from Southeast Asia; PI; $274,006; 2017-2019 [awarded though the Earth Observatory of Singapore].
- Optimal use of local and global constraints in the development of high-quality models of sea level evolution in Southeast Asia; PI; $139,000; 2018-2020 [awarded though the Earth Observatory of Singapore].

National Research Foundation, Singapore

Current

- National Sea Level Program; PI; $1,286,306; 2021-2025
- NRF Singapore International Collaborative Fellowship for the Commonwealth; PI; $250,000; 2018-2020.

United States National Science Foundation

- Paleoseismic evidence of earthquakes and tsunamis along the southern part of the Japan Trench; Co-PI; US$143,401; 2017-2020
- Quantifying Megathrust Earthquake Ruptures with Coastal Stratigraphy and Tsunami Simulations, South-Central Chile; PI; US$258,061; 2017-2020.
- Heterogeneous Rupture of Great Cascadia Earthquakes Inferred from Coastal Subsidence Estimates; Co-PI; US$129,503; 2015-2019.
- Geomorphic and sedimentary impacts of Hurricane Irma; PI; US$29,946; 2017-2018.
- Sea-level variability during the Common Era; PI; US$255,428; 2015-2017.
- Sea-level rise and salt-marsh response: a paleo perspective; PI; US$113,517; 2013-2017.
- RAPID: Tsunami deposits and coastal uplift near Concepción, Chile before and after the Mw8.8 earthquake of February 27, 2010; Co-PI US$21,750; 2015-2017.
- RAPID: Environmental impacts of Cyclone Pam on Vanuatu: implications for long-term cyclone and tsunami records for the South Pacific; Co-PI US$17,799; 2015-2016.
- Subduction Zone Segmentation over Multiple Seismic Cycles, South-Central Chile; Co-PI; US$172,726; 2012-2016.
- RAPID: Typhoon Haiyan – environmental impacts on the Philippines; PI; US$20,018; 2014-2016.
- Relative sea-level changes from near-, intermediate- and far-field locations and their implications for geophysical modeling and 20th century ice sheet-ocean interactions; PI; US$136,571; 2011-2014.
- EArly-concept Grants for Exploratory Research (EAGER): Geologic evidence of tsunamis originating from the Japan Trench's southern segment; PI; US$31,970; 2013-2014.
- Millennial-scale records of sea-level change along the Atlantic coast of the United States; PI; US$164,684; 2011-2013.
- RAPID: Connecting the historic 2011 Mississippi River flood to marsh sedimentation on the Delta; Co-PI; US$24,000; 2011-2012.
- Holocene sea-level change from the Caribbean: implications for geophysical modeling and ocean-climate interactions; Collaborator; US$39,285; 2010-2012.

- Luquillo Critical Zone Observatory; Co-PI; US$294,007; 2009-2014.
- Megathrust Paleogeodesy at the central Cascadia subduction zone; PI; US$233,086; 2009-2012.
- A Paleoseismic Record of Great Earthquakes on the Sunda Subduction Megathrust, Northern Sumatra; Co-PI; US$200,502; 2007-2012.
- Sea-level changes along the Atlantic Coast of the United States: Implications for glacial isostatic adjustment models and current rates of sea-level change; PI; US$131,019; 2007-2010.
- RAPID: Examining the evidence for a recent acceleration in the rate of sea-level rise using combined instrumental and proxy data, Morbihan Golfe, Brittany France; PI; US$10,080; 2007-2008.
- Indian Ocean Tsunami – Environmental and socio-economic impacts on the Malay-Thai Peninsula; PI; US$68,282; 2005-2006.

OTHER UNITED STATES FUNDING BODIES

- *Community Foundation of New Jersey*. Investigating Changing Flood Risks for the U.S. Atlantic Coast; PI; US$100,000; 2016-2019.
- *Muschett Family Foundation*. Raritan River Sediment Chemistry Study; PI; US$36,855; 2017-2019.
- *Environmental Protection Agency*. New Jersey Wetlands Past, Present and Future: Using Sediment Archives to Inform and Guide Wetland Protection, Restoration and Resilience; PI; US$74,792; 2014-2017.
- *National Oceanographic Atmospheric Administration*. Advanced regional and decadal predictions of coastal inundation for the U.S. Atlantic and Gulf coasts; PI; US$1,503,828; 2011-2015.
- *United States Geological Survey National Earthquake Hazards Reduction Program*. Paleoseismology of Sanak Island: collaborative Proposal with USGS; PI; US$ 29,064; 2014-2015.
- United States Geological Survey. Earthquake and tsunami hazards in the eastern Aleutian Islands; PI; US$12,000; 2012-2013.
- *National Aeronautics and Space Administration*. Global Sea Level in a Changing Climate: Reference Frames, Data Analysis, and Interpretation; PI; US$98,002; 2010-2012.
- *Department of Energy: The National Institute for Climatic Change Research.* Hurricane erosion of east coast salt marshes during the past 2500 years; PI; US$78,186; 2009-2012.
- *Earthwatch Student Challenge Awards Program*. Is Sea Level Rising? PI; US$68,271; 2007-2011.
- *United States Geological Survey*. High-resolution sea-level rise studies, Mid-Atlantic Bight, USA; PI; US$15,100; 2010-2011.
- *United States Geological Survey/North Carolina Cooperative Research Program*. Late Quaternary relative sea-level changes, Outer Banks, North Carolina; PI; US$30,000; 2005-2008.
- *United States Geological Survey*. Subduction-zone paleogeodesy at Cascadia; PI; US$25,039; 2006-2007.
- *National Oceanographic Atmospheric Administration*. Shore-Zone Dynamics in Response to Sea-level Rising North Carolina Estuaries; Co-PI; US$90,244; 2005-2008.

OTHER FUNDING

International Geoscience Programme (IGCP) 588; British Geological Survey University Funding Initiative; Port Authority of New York & New Jersey; Department of Environment and Conservation, New South Wales, Australia; Dawai Foundation award/Geological Survey of Japan. National Environmental Research Council, UK, Engineering and Physical Sciences Research Council, UK; Operation Wallacea Ltd; Associazione Nazionale Addestramento Professionale, Italy; European Union.

PUBLICATIONS

PUBLICATIONS IN HIGH-IMPACT JOURNALS (GRADUATE STUDENTS/POSTDOCTORAL SCIENTISTS SUPERVISED/SUPERVISING ARE UNDERLINED)

1. COVID-19 and the climate emergency – do common origins and solutions reside in the global agrifood system? **Horton, B.P.** and Horton, P. 2020. *One Earth*. https://doi.org/10.1016/j.oneear.2020.06.006
2. **Horton, B.P.,** Khan, N.S., Cahill, N., Lee, J.S.H., Shaw, T.S., Garner, A.J., Kemp, A.C., Engelhart, S.E., Rahmstorf, S., 2020. Estimating global mean sea-level rise and its uncertainties by 2100 and 2300 using an expert survey. *npj Climate and Atmospheric Science.* https://doi.org/10.1038/s41612-020-0121-5
3. Saintilan, N., Khan, N.S., Ashe, E., Kelleway, J., Rogers, K., Woodroffe, C.D., **Horton, B.P.,** 2020. Thresholds of mangrove survival under rapid sea-level rise. *Science*. 368, 1118–1121. https://doi.org/10.1126/science.aba2656
4. Horton, P. and **Horton, B.P.,** 2019. Re-defining sustainability: humankind must live in harmony with the planet and the other species that inhabit it. *One Earth,* 1. https://doi.org/10.1016/j.oneear.2019.08.019
5. Holmquist, J.R., Windham-Myers, L., Bliss, N., Crooks, S., Morris, J., Megonigal, J.P., Troxler, T., Weller, D., Callaway, J., Drexler, J., Ferner, M.C., Gonneea, M.E., Kroeger, K.D., Schile-Beers, L., Woo, I., Buffington, K., Breithaupt, J., Boyd, B.M., Brown, L.N., Dix, N., Hice, L., **Horton., B.P.,** MacDonald, G.M., Moyer, R.M., Reay, W., Shaw, T.A., Smith, E., Smoak, J.M., Sommerfield, C., Thorne, K., Velinsky, D., Watson, E., Wilson Grimes, K. and Woodrey, M., 2018. Accuracy and Precision of Tidal Wetland Soil Carbon Mapping in the Conterminous United States. *Nature Scientific Reports*, 8, 9478. doi: 10.1038/s41598-018-26948-7.
6. **Horton, B.P.,** Kopp, R.E., Garner, A.J., Hay, C.C., Khan, N.S., Roy, K., Shaw, T.A., 2018. Mapping Sea-Level Change in Time, Space, and Probability. *Annual Reviews of Environmental Resources*, 43:13.1–13.41. https://doi.org/10.1146/annurev-environ-102017-025826
7. **Horton, B.P.,** Shennan, I., Bradley, S.L., Cahill, N., Kirwan, M., Kopp, R.E., Shaw, T.A., 2018. Predicting marsh vulnerability to sea-level rise using Holocene relative sea-level data. *Nature Communications*. https://doi.org/10.1038/s41467-018-05080-0.
8. Garner, A.J., Mann, M.E., Emanuel, K.A., Kopp, R.E., Lin, N., Alley, R.B., **Horton, B.P.,** DeConto, R.M., Donnelly, J.P and Pollard, D. 2017. The Impact of Climate Change on New York City's Coastal Flood Hazard: Increased Flood Heights from the Pre-Industrial to 2300 CE. *Proceedings of the National Academy of Sciences*. https://doi.org/10.1073/pnas.1703568114.
9. **Horton, B.P.,** Milker, Y., Dura, T.D., Wang, K., Bridgeland, W.T., Brophy, L., Ewald, Khan, N.S., Engelhart, S.E., Nelson, A.R., and Witter, R.C., 2017. The response times of microfossils to rapid sea-level rise using a sudden tidal-flooding experiment in Cascadia. *Geology,* 45, 535-538.
10. Meltzner, A.J., Switzer, A.D., **Horton, B.P.,** Ashe, E., Qiu, Q., Hill, D.F., Bradley, S.L., Kopp, R.E., Hill, E.M., Majewski, J.M., Natawidjaja, D.H. and Suwargadi, B.W., 2017. Large regional sea-level oscillations on human timescales, revealed by mid-Holocene corals. *Nature Communications*. DOI 10.1038
11. Rubin, C.M., **Horton, B.P.,** Sieh, K., Pilarczyk, J.E., Daly, P.D., Ismail, N., and Parnell, A. 2017. Highly variable recurrence of tsunamis in the 7,400 years prior to the 2004 Indian Ocean Tsunami. *Nature Communications.* 8, 16019. https://doi.org/10.1038/ncomms16019.
12. Dura, T., Hemphill-Haley, E., Sawai, Y. and **Horton, B.P.,** 2016. The application of diatoms to reconstruct the history of subduction zone earthquakes and tsunamis. *Earth Science Reviews*, 152, 181-197.
13. Kopp, R.E., Kemp, A.C., Bittermann, K., **Horton, B.P.,** Donnelly, J.P., Gehrels, W.R., Hay, C.C., Mitrovica, J.X., Morrow, E.D., and Rahmstorf, S. 2016. Temperature-driven global sea-level variability in the Common Era. *Proceedings of the National Academy of Sciences*, 113, 1434–1441.

14. Lin, N., Kopp, R.E., **Horton, B.P.** and Donnelly, J.P., 2016. Hurricane Sandy's Flood Frequency increasing from 1800 to 2100. *Proceedings of the National Academy of Sciences*, 113, 12071–12075.
15. Dutton, A., Carlson, A.E., Long, A.J., Milne, G.A., Clark, P.U., DeConto, R., **Horton, B.P.,** Rahmstorf, S. and Raymo, M.E., 2015. Sea-level rise due to polar ice-sheet mass loss during past warm periods. *Science*, 349, 153.
16. Kelsey, H.M., Engelhart, S.E., Pilarczyk, J.E., **Horton, B.P.,** Rubin, C.M., Daryono, M.R., Ismail, N., Hawkes, A.D., Bernhardt, C.E. and Cahill, N., 2015. Accommodation space, relative sea level and the archiving of paleoearthquakes along subduction zones. *Geology*. https://doi.org/10.1130/G36706.1.
17. Reed, A.J., Mann, M.E., Emanuel, K.A., Lin, N., **Horton, B.P.,** and Kemp, A.C., 2015. Increasing vulnerability of New York City to tropical cyclones and coastal flooding during the Last Millennium. *Proceedings of the National Academy of Sciences*, 112, 12610–12615.
18. Engelhart, S.E., **Horton, B.P.,** Nelson, A.R., Hawkes, A.D., Witter, R.C., Wang, K., Wang, P.-L., and Vane, C.H., 2013. Validating reconstructions of upper plate deformation during Earth's greatest earthquakes**,** *Geology*, 41, 1067-1070.
19. Khan, N.S., **Horton, B.P.,** McKee, K.L., Jerolmack, D.J., Falcini, F., Enache, M.D. and Vane, C.H., 2013. Tracking sedimentation from the historic 2011 Mississippi River Flood in Louisiana Deltaic wetlands. *Geology*, 41, 391-394.
20. Bernhardt, C.E., **Horton, B.P.** and Stanley, J-D, 2012. Nile Delta vegetation response to Holocene climate variability. *Geology*, 40, 615-618.
21. Falcini, F., Khan, N.S., Macelloni, L**.**, **Horton, B.P.,** Lutken, C, B., McKee, L., Santoleri, R., Colella, S., Li, C., Volpe, G., D'Emidio, M., Salusti, A. and Jerolmack, D.J., 2012. Linking the historic 2011 Mississippi River flood to coastal wetland sedimentation. *Nature Geoscience.* https://doi.org/10.1038/NGEO1615.
22. Engelhart, S.E., Peltier, W.R., and **Horton, B.P.,** 2011**.** Holocene relative sea-level changes and glacial isostatic adjustment of the U.S. Atlantic coast. *Geology* 39, 751-754.
23. Kemp, A.C., **Horton, B.P.,** Donnelly, J.P., Mann, M.E., Vermeer, M. and Rahmstorf, S., 2011. Climate related sea-level variations over the past two millennia. *Proceedings of the National Academy of Sciences*, 108, 11017-11022.
24. Kemp, A.C., **Horton, B.P.,** Donnelly, J.P., Mann, M.E., Vermeer, M. and Rahmstorf, S., 2011. Reply to Grinsted et al.: Estimating land subsidence in North Carolina. *Proceedings of the National Academy of Sciences*, 108, 11017-11022.
25. Engelhart, S.E., **Horton, B.P.,** Douglas, B.C., Peltier, W.R., and Tornqvist, T.E., 2009. Spatial Variability of Late Holocene and 20th Century Sea Level Rise along the US Atlantic Coast. *Geology*, 37, 1115-1118.
26. **Horton, B.P.,** and Shennan, I., 2009. Compaction of Holocene strata and the implications for relative sea-level change. *Geology*, 37, 1083-1086.
27. Kemp, A.C., **Horton, B.P.,** Culver, S.J., Corbett, D.R., van de Plassche, O., Gehrels, W.R. and Douglas, B.C., 2009. The timing and magnitude of recent accelerated sea-level rise (North Carolina, USA). *Geology*, 37, 1035-1038.
28. Berkeley, A., Perry, C.T. Smithers, S., **Horton, B.P.,** Taylor, K.G., 2007. Microfossil-based palaeoenvironmental records in intertidal environments: a review of the ecological and taphonomic controls on foraminiferal assemblage development. *Earth Science Reviews*, 83, 205-230.
29. Sawai, Y., Satake, K., Kamataki, T., Nasu, H., Shishikura, M., Atwater, B. F., **Horton, B.P.,** Kelsey, H., Nagumo, T., Yamaguchi, M., 2004. Transient uplift after a 17th-century earthquake along the Kuril trench. *Science*, 206, 1918-1920.

PUBLICATIONS IN OTHER PEER-REVIEWED JOURNALS (GRADUATE STUDENTS/POSTDOCTORAL SCIENTISTS SUPERVISED/SUPERVISING ARE UNDERLINED)

30. Christie, M.A., Bernhardt, C.E., Parnell, A.C., Shaw, T.A., Khan, N.S., Corbett, D.R., García-Artola, A., Clear, J., Walker, J.S., Donnelly, J.P., Hasse, T.R., **Horton, B.P.,** in press. Pollen geochronology from the Atlantic Coast of the United States during the last 500 years. *Water*.
31. Nelson, A.R., Hawkes, A.D., Sawai, Y., Horton, B.P., Witter, R.C., Bradley, L-A., Cahill, N., in press. Minimal stratigraphic evidence for coseismic coastal subsidence during 2000 years of megathrust earthquakes at the central Cascadia subduction zone, *Geosphere.*
32. Chen H., Shaw, T.A., Wang, J., Engelhart, S.E., Nikitina, D., Pilarczyk, J.E., Walker, J., García- Artola, A., **Horton, B.P.**, 2020. Salt-marsh foraminiferal distributions from mainland northern Georgia, USA: an assessment of their viability for sea-level studies. *Open Quaternary*. 6, 1–19. DOI: https://doi.org/10.5334/oq.80
33. Chua, S., Switzer, A.D., Kearsey, T.I., Bird, M.I., Rowe, C., Chiam, K., **Horton, B.P.,** 2020. Recommendations for A new Quaternary Stratigraphy of the Kallang River Basin, Singapore. *Journal of Asian Earth Sciences.* 104430. https://doi.org/10.1016/j.jseaes.2020.104430
34. Li, T., Wu, P., Wang, H., Steffen, H., Khan, N.S., Engelhart, S.E., Vacchi, M., Shaw, T.A., Peltier, W.R., and **Horton, B.P.,** 2020. Uncertainties of Glacial Isostatic Adjustment model predictions in North America associated with 3D structure. *Geophysical Research Letters,* 47, https://doi.org/10.1029/2020GL087944
35. Nelson, A.R., Hawkes, A.D., Sawai, Y., Engelhart, S.E., Witter, R.C., Grant-Walter, W.E., Bradley, L-A., Dura, T., Cahill, N., **Horton, B.P.,** 2020. Identifying the largest earthquakes of the past 2000 years at the Nehalem River estuary, northern coast Oregon, USA. *Open Quaternary.* 6, 1–30. DOI: https://doi.org/10.5334/oq.70
36. Vane, C.H., Kim, A.W., Moss-Hayes, V., Turner, G., Mills, K., Chenery, S.K., Barlow, T.S., Kemp, A.C., Engelhart, S.E., Hill, T.D., **Horton, B. P.** and Brain, M., 2020. Organic pollutants, heavy metals and toxicity in oil spill impacted salt marsh sediment cores, Staten Island, New York City, USA. *Marine Pollution Bulletin*, 151, 110721.
37. Walker, J.S., Cahill, N., Khan, N.S., Shaw, T.S., Barber, D., Miller, K., Kopp, R., **Horton, B.P.,** 2020., Incorporating temporal and spatial variability of salt-marsh foraminifera into sea-level reconstructions, *Marine Geology.* 429, 1-17.
38. Wan, J.X.W., Meltzner, A.J., Switzer, A.D., Lin, K., Wang, X., Bradley, S.L., Natawidjaja, D.H., Suwargadi, B.W., and **Horton, B.P.,** 2020. Relative sea-level stability and the radiocarbon marine reservoir correction at Natuna Island, Indonesia, since 6400 yr BP. *Marine Geology*, 430. https://doi.org/10.1016/j.margeo.2020.106342
39. Ashe, E.L., Cahill, N., Hay, C., Khan, N.S., Kemp, A.J., Engelhart, S.E., **Horton, B.P.,** Parnell, A.C., Kopp, R.E., 2019. Statistical modeling of rates and trends in Holocene relative sea level. *Quaternary Science Reviews,* 204, 58-77.
40. Barbieri, G., Rossi, V., Vaiani, S.C., **Horton, B.P.,** 2019. Benthic ostracoda and foraminifera from the North Adriatic Sea (Italy, Mediterranean Sea): a proxy for the depositional characterization of river-influenced shelves. *Marine Micropaleontology*, 153, 101772.
41. Chen, H., Khan, N.S., Wang, J., Waxi, L., Wu, J., Zhai, Y., Zhang, Y., **Horton, B.P.**, 2019. Early and late Holocene paleoenvironmental reconstruction of the Pearl River estuary, South China Sea using foraminifera and stable carbon isotopes. *Estuarine, Coastal and Shelf Science*, 222, 112-125.
42. Dean, S., **Horton, B.P.,** Evelpidou, N., Cahill, N., Spada, G., Sivan, D., 2019. Can we detect centennial sea-level variations over the last three four thousand years in Israeli archaeological records? *Quaternary Science Reviews,* 210, 125-135.

43. **Horton, B.P.,** Kopp, R.E., Dutton, A., and Shaw, T.A., 2019. Geological records of past sea-level changes as constraints for future projections. *PAGES*, 27, doi.org/10.22498.
44. Kemp, A.C., Vane, C.H., Khan, N.S., Ellison, J.C., Engelhart, S.E., **Horton, B.P.,** Nikitina, D., Smith, S.R., Rodrigues, L., Moyer, R.P., 2019. Testing the utility of geochemical proxies to reconstruct Holocene coastal environments and relative sea level: a case study from Hungry Bay, Bermuda. *Open Quaternary*, 5, http://doi.org/10.5334/oq.49
45. Khan, N.S., **Horton, B.P.,** Engelhart, S.E., Rovere, A., Vacchi, M., Ashe. E.L., Törnqvist, T.E., Dutton, A., Hijma, M.P., Shennan, I., and the HOLSEA working group, 2019. Inception of a global atlas of sea levels since the Last Glacial Maximum. *Quaternary Science Reviews,* 220, 359-371.
46. Khan, N.S., Vane, C.H., Engelhart, S.E., Kendrick, C., **Horton, B.P.,** 2019. The application of δ13C, TOC and C/N geochemistry of mangrove sediments to reconstruct Holocene paleoenvironments and relative sea levels, Puerto Rico. *Marine Geology*, 415, 105963.
47. Pilarczyk, J.E., Sawai, Y., Matsumoto, D., Namegaya, Y., Nishida, N., Ikehara, K., Fujiwara, O., Gouramanis, C., Dura, T., **Horton, B.P.,** 2019. Constraining sediment provenance for tsunami deposits using distributions of grain size and foraminifera from the Kujukuri coastline and shelf, Japan. *Sedimentology*. doi: 10.1111/sed.12591.
48. Stammer, D., van de Wal, R.S.W., Nicholls, R.J., Church, J.A., Le Cozannet, G., Lowe, J.A., **Horton, B.P.,** White, K., and Behar, D., Hinkel, J., 2019. Framework for high-end estimates of sea-level rise for stakeholder applications. *Earths Future. Earth's Future,* 7. https://doi.org/10.1029/2019EF001163.
49. Able, K.W., Walker, J., and **Horton, B.P.,** 2018. Ghost Forests in the Mullica Valley: Indicators of Sea-Level Rise. Soujorn.
50. Baranskaya, A.V., Khan, N.S., Romanenko, F.A., Roy, K., Peltier, W.R., **Horton, B.P.,** 2018. A postglacial relative sea-level database for the Russian Arctic coast. *Quaternary Science Reviews.* 196, 1-18.
51. Costelloe, A., Wilson, B., **Horton, B.P.,** and Hayek, L-A, C. 2018. Temporal assemblage turnovers of intertidal foraminiferal communities from topical (SE Caribbean) and temperate (NE England and SW Spain) regions. *Estuarine, Coastal and Shelf Science*.
52. García-Artola, A., Stéphan, P., Cearreta, A., Kopp, R.E., Khan, N.S. and **Horton, B.P.,** 2018. Holocene sea-level database from the Atlantic coast of Europe. *Quaternary Science Reviews,* 196, 177-192.
53. Garner, A.J., Kopp, R.E., **Horton, B.P.,** Mann, Alley, R.B., M.E., Emanuel, K.A., Lin, N., Donnelly, J.P., Kemp, A.C., DeConto, R.M., and Pollard, D. 2018. New York City's evolving flood risk from hurricanes and sea level rise. *Variations/Exchanges,* 16, 30-35.
54. Garner, A.J., Weiss, J.L., Parris, A., Kopp, R.E., Horton, R.M., Overpeck, J.T., **Horton, B.P.,** 2018. Evolution of 21st Century Sea-level Rise Projections. *Earths Future*. 6. https://doi.org/10.1029/2018EF000991
55. Hong, I., Pilarczyk, J.E., **Horton, B.P.,** Fritz, H.M., Kosciuch, T., Wallace, D.J., Dike, C., Rarai, A., Harrison, M.J. and Jockley, F.R., 2018. Sedimentological characteristics of the 2015 Tropical Cyclone Pam overwash sediments from Vanuatu, South Pacific. *Marine Geology*, 396, 205-214
56. Kemp, A.C., Wright, A.J., Edwards, R.J., Barnett, R.L., Brain, M.J, Cahill, N., Kopp, R.E., **Horton, B.P.,** Charman, D.J., Hawkes, A.D., Hill, T.D., and van de Plassche, O., 2018. Late Holocene relative sea-level change in Newfoundland, Canada. *Quaternary Science Reviews*, 201, 89-110.
57. Kosciuch, T.J., Pilarczyk, J., Hong, I., Fritz, H.M., **Horton, B.P.,** Rarai, A., Harrison; M.J. and Jockle, F.R., 2018. Foraminifera reveal a shallow nearshore origin for overwash sediments deposited by Tropical Cyclone Pam in Vanuatu (South Pacific). *Marine Geology*, 396, 171-185.
58. Majewski, J.M., Switzer, A.D., Meltzner, A.J., Parham, P., **Horton, B.P.,** Bradley, S., Pile, J., Chiang, H.W., Wang, X., Tyiin Ng, C., Tanzil, J., Müller, M. and Mujahid, A., 2018. Relative sea level proxy records from fossil

coral microatolls in Western Borneo, South China Sea: Sea-level stability around 7 ka and possible Holocene faulting. *The Holocene*, 204, 86-97.

59. Shaw, T.A., Plater, A.J., Kirby, J.R., Roy, K., Holgate, S., Tutman, P., Cahill, N., **Horton, B.P.,** 2018. Tectonic influences on late Holocene relative sea levels from the central-eastern Adriatic coast of Croatia. *Quaternary Science Reviews*, 200, 262-275.
60. Vacchi, M., Engelhart, S.E., Nikitina, D., Ashe, E.L., Peltier, W.E., Roy, K., Kopp, R.E., **Horton, B.P.,** 2018. Postglacial relative sea-level histories along the eastern Canadian coastline. *Quaternary Science Reviews*, 201, 124-146.
61. Brain, M.J., Kemp, A.C., Hawkes, A.D., Vane, C.H., Cahill, N., Hill, T.D., Engelhart, S.E.., Donnelly, J.P. and **Horton, B.P.**, 2017. The contribution of mechanical compression and biodegradation to compaction of salt-marsh sediments and relative sea-level reconstructions. *Quaternary Science Reviews*, 167, 96-111.
62. Dura, T., **Horton, B.P.,** Cisternas, M. Ely, L.L., Hong, I., Nelson, A.R., Wesson, R.L., Pilarczyk, J., Parnell, A., and Nikitina, D., 2017. Subduction zone slip variability during the last millennia, south-central Chile. *Quaternary Science Reviews*, 175, 112-137.
63. Kemp, A.C., Kegel, J.J., Culver, S.J., Barber, D.C., Mallinson, D.J., Leorri, E., Bernhardt, C.B., Cahill, N., Riggs, S.R., Woodson, A.L., Mulligan, R.P., and **Horton, B.P.,** 2017. An extended late Holocene relative sea-level history for North Carolina, USA. *Quaternary Science Reviews*, 160, 13-30.
64. Kemp, A.C., **Horton, B.P.,** Nikitina, D., Vane, C.H., Potapova, M., Weber-Bruya, E., Culver, S.J., Repkina, T., Hill, D.F. and Selezneva, E., 2017. The distribution and utility of sea-level indicators in Eurasian sub-arctic salt marshes (White Sea, Russia). *Boreas*, doi/10.1111/bor.12233
65. Kemp, A.C., Wright, A.J., Barnett, R.L., Hawkes, A.D., Charman, A.J., Sameshima, C., King, A.N., Mooney, H.C., Edwards, R.J., **Horton, B.P.**, and van de Plassche, O., 2017. Utility of salt-marsh foraminifera, testate amoebae and bulk-sediment $\delta^{13}C$ values as sea-level indicators in Newfoundland, Canada. *Marine Micropaleontology*, 130, 43-59.
66. Khan, N.S., Ashe, E., **Horton, B.P.,** Dutton, A., Kopp, R.E., Brocard, G., Engelhart, S.E., Hill, D.F., Peltier, W.R., Vane, C.H. and Scatena, F.N., 2017. Drivers of Holocene sea-level change in the Caribbean. *Quaternary Science Reviews*, 155, 13-36.
67. Johnson, C.S., Miller, K.G., Browning, J.V., Kopp, R.E., Khan, N.S., Fan, Y., Stanford, S.D. and **Horton, B.P.,** 2017. The Role of Sediment Compaction and Groundwater Withdrawal in Local Sea-Level Rise, Sandy Hook, New Jersey, USA. *Quaternary Science Reviews*, 181, 30-42
68. Bradley, S.L., Milne, G.A., **Horton, B.P.,** and Zong, Y., 2016. Modelling sea level data from China and Malay-Thailand to estimate Holocene ice-volume equivalent sea level change. *Quaternary Science Reviews*, 137, 54-68.
69. Cahill, N., Kemp, A.C., **Horton, B.P.** and Parnell, A.C. 2016. A Bayesian hierarchical model for reconstructing relative sea level: from raw data to rates of change. *Climate of the Past*, 12, 525-542.
70. Culver, S.J., Farrell, K.M., Mallinson, D.J., Willard, D.A., **Horton, B.P.,** Riggs, S.R., Thieler, E.R., Wehmiller, J.F., Parham, P.R., Moore, J.P., Snyder, S.W., and Hillier, C. 2016. Micropaleontologic record of Pliocene and Quaternary paleoenvironments in the southern Albemarle Embayment, North Carolina, U.S.A. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 457, 360–379.
71. Dura, T., Engelhart, S.E., Vacchi, M., **Horton, B.P.,** Kopp, R.E., Peltier, W.R., Bradley, S., Cahill, N., 2016. The role of Holocene relative sea-level change in preserving records of subduction-zone earthquakes. *Current Climate Change Reports*, 2, 86-100.
72. Düsterhus, A., Rovere, A., Carlson, A.E., **Horton, B.P.,** Klemann, V., Tarasov, L., Barlow, N.L.M., Bradwell, T., Clark, J., Dutton, A., Gehrels, W.R., Hibbert, F.D., Hijma, M.P., Khan, N., Kopp, R.E., Sivan, D. and Törnqvist,

T.E., 2016. Palaeo sea-level and ice-sheet databases: problems, strategies and perspectives. *Climate of the Past,* 12, 911-921.

73. Hawkes, A.D., Kemp, A.C., Donnelly, J.P., **Horton, B.P.,** Peltier, W.R., Cahill, N., Hill, D.F., Ashe, E. and Alexander, C.R., 2016. Relative sea-level change in northeastern Florida (USA) during the last ~8.0 ka. Quaternary Science Reviews, 142, 90-101.
74. Hong, I., Dura, T., Ely, L.L., **Horton, B.P.,** Nelson, A.R., Cisternas, M. and Wesson, R.L., 2016. A 600-year-long stratigraphic record of high tsunamis in south-central Chile. *Holocene*. 1-13
75. Love, R., Milne, G.A., Tarasov, L., Engelhart, S.E., Hijma, M.P., Latychev, K., **Horton, B.P.,** Tornqvist T.E., 2016. The Contribution of Glacial Isostatic Adjustment to Projections of Sea Level Change along the East and Gulf Coasts of North America. *Earths Future*, 4, doi:10.1002/2016EF000363
76. Milker, Y., Nelson, A.R., **Horton, B.P.,** Engelhart, S.E., Bradley, L-A., and Witter, R.C., 2016. Differences in coastal subsidence in southern Oregon (USA) during at least six megathrust earthquakes. *Quaternary Science Reviews*, 142, 143-163.
77. Pilarczyk, J.E., **Horton, B.P.,** Soria, J.LA, Switzer, A.D., Siringan, F., Fritz, H.M., Khan, N.S., Ildefonso, S., Ramos, R., Doctor, A.A. and Garcia, M.L., 2016. Micropaleontology of the 2013 Typhoon Haiyan deposit from the Leyte Gulf, Philippines. *Sedimentary Geology*, 339, 104-114.
78. Sawai, Y., **Horton, B.P.,** Kemp, A.C., Hawkes, A.D., Nagumo, T., and Nelson, A., 2016. Relations among diatoms and tidal environments in Oregon and Washington, USA. *Diatom Research*, 31, 17-38.
79. Brain, M.J., Kemp, A.C., **Horton, B.P.,** Culver, S.J., Parnell, A.C., and Cahill, N., 2015. Quantifying the contribution of sediment compaction to late Holocene salt-marsh sea-level reconstructions (North Carolina, USA). *Quaternary Research*, 83, 41-51.
80. Cahill, N., Kemp, A.C., **Horton, B.P.,** Parnell, A., 2015. Modeling sea-level change using Errors-In-Variables Integrated Gaussian Processes. Annals of Applied Statistics, 9, 547–571.
81. Brew, D.S., **Horton, B.P.,** Evans, G., Innes, J. B. and Shennan, I., 2015. Holocene sea-level history and coastal evolution of the north-western Fenland, eastern England. *Proceedings of the Geologists' Association*, 126, 72-85.
82. Dura, T., Cisternas, C., **Horton, B.P.,** Ely, L.L., Wesson, R.L., Nelson, A.R. and Pilarczyk, J.E., 2015. Coastal evidence for Holocene subduction zone earthquakes and tsunamis in central Chile. *Quaternary Science Reviews,* 113, 93-111.
83. Engelhart, S.E., Vacchi, M., **Horton, B.P.,** Nelson, A.R. and Kopp, R.E., 2015. A Sea Level Database for the central Pacific coast of North America. *Quaternary Science Reviews*, 113, 78-92.
84. Freymueller, J.T., Haeussler, P.J., **Horton, B.P.** and Shennan, I., 2015. Megathrust earthquakes and sea-level change: a tribute to George Plafker. *Quaternary Science Reviews*, 113, 1-2.
85. Kemp, A.C., Hawkes, A.D., Donnelly, J.P., Vane, C.H., **Horton, B.P.,** Hill, T.D., Anisfeld, S.H., Parnell A.C., Cahill, N., 2015. Relative sea-level change in Connecticut (USA) during the last 2200yrs. Earth and Planetary Science Letters, 428, 217–229.
86. Khan, N.S., Shaw, T., Ashe, E., Vacchi, M., Walker, J., Peltier, W.R., Kopp, R.E., and **Horton, B.P.**, 2015. Relative sea-level changes from near-, intermediate-, and far-field locations since the Last Glacial Maximum. *Current Climate Change Reports*, 1, 247-262.
87. Khan, N.S., Vane, C.V., **Horton, B.P.,** Hillier, C., Riding, J.B., Kendick, C.P., 2015. The application of δ13C, TOC and C/N geochemistry to reconstruct Holocene relative sea levels and paleoenvironments in the Thames Estuary, UK. Journal of Quaternary Science. DOI: 10.1002/jqs.2784.
88. Kopp, R.E., **Horton, B.P.,** Kemp, A.C. and Tebaldi, C., 2015. Past and future sea-level rise along the coast of North Carolina, USA. *Climate Change*, 132, 693-707.

89. Lindeman, K.C., Dame, L.E., Avenarius, C.B., **Horton, B.P.,** Donnelly, J.P., Corbett, D.R., Kemp, A.C., Lane, P., Mann, M.E., and Peltier, W.R., 2015. Science needs for sea-level adaptation planning: comparisons among three U.S. Atlantic coast regions. *Coastal Management*, 43, 555-574.
90. Milker, Y., **Horton, B.P.,** Engelhart, S.E., Nelson, A.R. and Witter, R.C., 2015. Variability of intertidal foraminiferal assemblages in a salt marsh, Oregon, USA. *Marine Micropaleontology*, 118, 1-16.
91. Milker, Y., **Horton, B.P.,** Vane, C.H., Engelhart, S.E., Nelson, A.R., Witter, R.C., Khan, N.S. and Bridgeland, W.T., 2015. Seasonal distribution of intertidal foraminifera and stable carbon isotope geochemistry, Bandon Marsh, Oregon, USA. *Journal of Foraminiferal Research*, 45, 146-166.
92. Nikitina, D., Kemp, A.C., Engelhart, S.E., **Horton, B.P.,** Hill, D., and Kopp, R.E., 2015. Sea-level change and subsidence in the Delaware estuary during the last ~2200 years. *Estuarine, Coastal and Shelf Science*, 164, 506-519.
93. Sieh, K. Daly, P., Edwards McKinnon, E., Pilarczyk, J.E., Chiang, H-E., **Horton, B.P.,** Rubin, C.M., Chuan-Chou, S., Ismail, N., Vane, C.H., and Feener, M., 2015. Penultimate Predecessors of the 2004 Indian Ocean tsunami in Aceh, Sumatra: Stratigraphic, Archeological and Historical Evidence. *Journal of Geophysical Research - Solid Earth*, 120, 308-325.
94. **Horton, B.P.,** Rahmstorf, S., Engelhart, S.E. and Kemp, A.C., 2014. Expert assessment of sea-level rise by AD 2100 and AD 2300. *Quaternary Science Reviews,* 84, 1–6.
95. **Horton, B.P.,** Rahmstorf, S., Engelhart, S.E. and Kemp, A.C., 2014. Reply to comment received from J.M. Gregory et al. regarding "Expert assessment of future sea-level rise by 2100 and 2300 AD". Quaternary Science Reviews, 97, 195-196
96. Kemp, A.C., Bernhardt, C.E., **Horton, B.P.,** Kopp, R.E., Vane, C.H., Peltier, W.R., Hawkes, A.H., Donnelly, J.P., Parnell, A.C. and Cahill, N. 2014. Late Holocene relative sea- and land-level change on the U.S. southeastern Atlantic coast. *Marine Geology*, 357, 90-100.
97. Nikitina, D.L., Kemp, A.C., **Horton, B.P.,** Vane, C.H., van de Plassche, O. and Engelhart, S.E. 2014. Storm erosion during the past 2000 years along the north shore of Delaware Bay, USA. *Geomorphology*, 208, 160-172.
98. Pilarczyk, J., Dura, T., **Horton, B.P.,** Engelhart, S.E., Kemp, A.C., Sawai, Y., 2014. Microfossils from coastal environments as indicators of palaeoearthquakes, tsunamis, and storm. *Palaeogeography, Palaeoclimatology, Palaeoecolog*y, 413, 144-157.
99. Pilarczyk, J.E., Goff, J., Mountjoy, J., Lamarche, G., Pelletier, B. and **Horton, B.P.**, 2014. Sediment transport trends from a tropical Pacific lagoon as indicated by *Homotrema rubrum* taphonomy: Wallis Island, Polynesia. *Marine Micropaleontology*, 109, 21-29.
100. van de Plassche, O., Wright, A.J., **Horton, B.P.,** Engelhart, S.E., Kemp, A.C., Mallinson, D., and Kopp, R.E., 2014. Estimating tectonic uplift of the Cape Fear Arch (Southeast-Atlantic coast, USA) using reconstructions of Holocene relative sea level. *Journal of Quaternary Science,* 29, 749-759.
101. Tasian, G.E., Pulido, J.E., Gasparrini, A., Saigal, C.S., Landis, J.R., Madison, R., **Horton, B.P.** and Keren, R., 2014. Effect of Temperature on Nephrolithiasis. Environmental Health Perspectives, 122, 1081-1087.
102. Engelhart, S.E., **Horton, B.P.,** Vane, C.H., Nelson, A.R., Witter, R.C., Brody, S.R. and Hawkes, A.D., 2013. Modern salt-marsh foraminifera, flora and stable carbon isotopes of Siletz Bay, Oregon, and their application in paleoseismology. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 377, 13-27.
103. Hall, G.F., Hill, D.F., **Horton, B.P.,** Engelhart, S.E., and Peltier, W.R., 2013. A high-resolution study of tides in the Delaware Bay: Past conditions and future scenarios. *Geophysical Research Letters,* 40, 338-342.

104. **Horton, B.P.,** Engelhart, S.E., Hill, D.F., Kemp, A.C., Nikitina, D., Miller, K.G., and Peltier, W.R., 2013. Influence of tidal-range change and sediment compaction on Holocene relative sea-level change in New Jersey, USA. *Journal of Quaternary Science*, 28, 403-411.

105. Kemp, A.C. and **Horton, B.P.,** 2013. Contribution of relative sea-level rise to historical hurricane flooding in New York City. *Journal of Quaternary Science*, 28, 537-541.

106. Kemp, A.C., **Horton, B.P.,** Vane, C.H., Bernhardt, C.E., Corbett, D.R., Englehart, S.E., Anisfeld, S.C., Parnell, A.C., and Cahill, N., 2013. Sea-level change during the last 2500 years in New Jersey, USA. Quaternary Science Reviews, 81, 90-104.

107. Kemp, A.C., Telford, R.J., **Horton, B.P.,** Anisfeld, S.C. and Sommerfield, C.K., 2013. Reconstructing Holocene sea level using salt-marsh foraminifera and transfer functions: lessons from New Jersey, USA. *Journal of Quaternary Science,* 28, 617-629.

108. Miller, K.G., Kopp, R.E., **Horton, B.P.,** Browning, J.V. and Kemp, A.C. 2013. A geological perspective on sea-level rise and impacts along the U.S. mid-Atlantic coast. Earth's Future, 1, 3-18.

109. Vane, C.H., Kim, A.W., Moss-Hayes, V., Snape, C.E., Castro Diaz, M, Khan, N.S., Engelhart, S.E., and **Horton, B.P.,** 2013. Degradation of mangrove tissues by arboreal termites (*Nasutitermes acajutlae*) and their role in the mangrove C cycle (Puerto Rico): Chemical characterization and organic matter provenance using bulk d13C, C/N, alkaline CuO oxidation-GC/MS, and solid-state 13C NMR. *Geochemistry, Geophysics, Geosystems,* 14, 3176-3191.

110. Wang, P.-L., Engelhart, S.E., Wang, K., Hawkes, A.D., **Horton, B.P.,** Nelson, A.R., Witter, R.C., 2013, Heterogeneous rupture in the Great Cascadia earthquake of 1700 inferred from coastal subsidence estimates: *Journal of Geophysical Research – Solid Earth*, 118, 2460-2473.

111. Day, J.W., Gunn, J.D., Folan, W.J., Yáñez-Arancibia, A., and **Horton, B.P.,** 2012. Post-Glacial Coastal Margin Productivity and the Emergence of Complex Societies. *Journal of Island & Coastal Archaeology,* 7, 23-42.

112. Engelhart, S.E. and **Horton, B.P.,** 2012. Holocene sea-level database for the Atlantic coast of the United States. *Quaternary Science Reviews*, 54, 12-25.

113. Grand Pre, C., **Horton, B.P.,** Kelsey, H.M., Rubin, C.M., Hawkes, A.D., Daryono, M., Rosenberg, G. and Culver, S.J. 2012. Stratigraphic evidence for an early Holocene earthquake in Aceh, Indonesia. *Quaternary Science Reviews*, 54, 142-151.

114. Hawkes, A.D. and **Horton, B.P.,** 2012. Sedimentary and foraminiferal record of storm deposits from Hurricane Ike, Galveston and San Luis islands, Texas, *Geomorphology,* 171, 180-189.

115. Kemp, A.C., **Horton, B.P.,** Vann, D.R., Engelhart, S.E., Grand Pre, C., Vane, C.H., Nikitina, D., and Anisfeld, S.C., 2012. Quantitative vertical zonation of salt-marsh foraminifera for reconstructing former sea level; an example from New Jersey, USA. *Quaternary Science Reviews*, 54, 26-39.

116. Kemp, A.C., Sommerfield, C.K., Vane, C.H., **Horton, B.P.,** Chenery, S., Anisfeld, S., and Nikitina, D. 2012. Use of Lead isotopes for developing chronologies in recent salt-marsh sediments. *Quaternary Geochronology,* 12, 40-49.

117. Kemp, A.C., Vane, C.H., **Horton, B.P.,** Engelhart, S.E., Anisfeld, S.C. and Nikitina, D., 2012. Application of stable carbon isotopes for reconstructing salt-marsh floral zones and relative sea level, New Jersey, USA. *Journal of Quaternary Science*, 27, 404–414.

118. Pilarczyk, J.E., **Horton, B.P.,** Witter, R.C., Vane, C.H., Chagué-Goff, C. and Goff, J., 2012. Sedimentary and foraminiferal evidence of the 2011 Tōhoku-oki tsunami on the Sendai coastal plain, Japan. *Sedimentology,* 282, 78-89.

119. Switzer, A.D., Sloss, C.R., **Horton, B.P.** and Zong, Y., 2012. Preparing for coastal change. Quaternary Science Reviews, 54, 1-3.

120. Vermeer, M., Rahmstorf, S., Kemp, A. and **Horton, B.**, 2012. On the differences between two semi-empirical sea-level models for the last two millennia. Climate of the Past, 8, 3551–3581.

121. Wilson, B. and **Horton, B.P.,** 2012. Determining carrying capacity from foraminiferal time series. *Journal of Micropaleontology*, 31:111-119

122. Bernhardt, C.E., Stanley, J-D. and **Horton, B.P.**, 2011. Wetland Vegetation in Manzala Lagon, Nile Delta Coast, Egypt: Rapid Responses of Pollen to Altered Nile Hydrology and Land Use. *Journal of Coastal Research*, 27, 731 – 737.

123. Brain, M.J., Long, A.J., Petley, D.N., **Horton, B.P.,** and Allison, R.J., 2011. Compression behaviour of minerogenic low energy intertidal sediments, *Sedimentary Geology*, 233, 28-41.

124. Culver, S.J., Farrell, K., Mallinson, D.J., **Horton, B.P.,** Willard, D.A., Thieler, E.R., Riggs, S.R., Thieler, E.R., Wehmiller, J.F., Parham, P., Snyder, S.W., and Hillier, C., 2011. Evolution of Quaternary paleoenvironments of the Central Albemarle Embayment, North Carolina, U.S.A. *Palaeogeography, Palaeoecology, Palaeoclimatology,* 305, 227–249.

125. Dura, T., Rubin, C.M., Kelsey, H.M., **Horton, B.P.,** Hawkes, A.D., Grand Pre, C., Daryono, M., Ladinsky, T., Vane, C.H. and Bradley, S. 2011. Preservation of Holocene Earthquakes, Sungai Pinang, Western Sumatra. *Journal of Geophysical Research - Solid Earth*, 116, B11306, doi:10.1029/2011JB008205.

126. Engelhart, S.E., **Horton, B.P.** and Kemp, A.C., 2011. Holocene Sea Level Changes along the United States' Atlantic Coast. *Oceanography* 24, 70–79.

127. Gehrels, W.R., **Horton, B.P.,** Kemp, A.C. and Silvan, D., 2011. Sivan Sea-level records of the last 2000 years hold the key to understanding contemporary and future sea-level change. *EOS, Transactions, American Geophysical Union* 92, 289-29.

128. Grand Pre, C., Culver, S., Mallinson, D., Farrell, K., Corbett, R., **Horton, B.P.,** Hillier, C., Riggs, S., Snyder, S. and Buzas, M., 2011. Rapid Holocene Coastal Change Revealed by High Resolution Micropaleontological Analysis, Pamlico Sound, North Carolina, USA. *Quaternary Research*, 76, 319-334.

129. Hawkes, A.D., **Horton, B.P.** and Nelson, A. R., 2011. Coastal subsidence in Oregon, USA, during the giant Cascadia Earthquake of AD 1700. *Quaternary Science Reviews*, 30, 364-376.

130. Hill, D.F., Griffiths, S.D., Peltier, W.R., **Horton**, **B.P.** and Törnqvist, T.E., 2011. High-resolution numerical modeling of tides in the western Atlantic, Gulf of Mexico, and Caribbean Sea during the Holocene, *Journal of Geophysical Research*, 116, C10014, doi:10.1029/2010JC006896.

131. **Horton, B.P.,** Sawai, Y., Hawkes, A.D. and Witter, R.C. 2011. Sedimentology and paleontology of a tsunami deposit accompanying the great Chilean earthquake of February 2010. *Marine Micropaleontology*, 79, 132–138.

132. Kemp, A.C., Buzas, M.A., **Horton, B.P.,** and Culver, S.J., 2011. Influence of patchiness on modern salt-marsh foraminifera used in sea-level studies (North Carolina, USA). *Journal of Foraminiferal Research,* 41, 114-123.

133. Rossi, V., **Horton, B.P.**, Corbett, D.R., Leorri, E., Perez-Belmonte, L. and Douglas, B.C., 2011. The application of foraminifera to reconstruct the rate of 20th century sea-level rise, Morbihan Golfe, Brittany France. *Quaternary Research*, 75, 24-35.

134. Hawkes, A.D., **Horton, B.P.,** Nelson, A.R., and Hill, D. F., 2010. The application of intertidal foraminifera to reconstruct coastal subsidence during the giant Cascadia earthquake of AD 1700 in Oregon, USA. *Quaternary International*, 221, 116–140.

135. Kemp, A.C., Vane, C.H., **Horton, B.P.,** and Culver, S.J., 2010. Stable carbon isotopes as potential sea-level indicators in salt marshes, North Carolina, USA. *Holocene*, 20, 623–636.

136. Leorri, E., Gehrels, W.R., **Horton, B.P.,** Fatela, F. and Cearreta, A., 2010. Distribution of foraminifera in salt marshes along the Atlantic coast of SW Europe: tools to reconstruct past sea-level variations. *Quaternary International*, 221, 104–115.

137. Pruitt, R.J., Culver, S.J., Buzas, M. A., Corbett, D.R., **Horton, B.P.** and Mallinson, D. J., 2010. Modern foraminiferal distribution and recent environmental change in Core Sound, North Carolina, USA. *Journal of Foraminiferal Research*, 40, 344-365.

138. Berkeley, A., Perry, C.T., Smithers, S.T., **Horton, B.P.**, Cundy, A.B., 2009. Foraminiferal biofacies across mangrove-mudflat environments at Cocoa Creek, north Queensland, Australia. *Marine Geology*, 263, 64-86.

139. **Horton, B.P.,** Long, A.J., and Donnelly, J.P., 2009. Quaternary Ice Sheet-Ocean Interactions and Landscape Responses. *Quaternary Science Reviews*, 28, 1570-1572.

140. **Horton, B.P.,** Peltier, W.R., Culver, S.J., Drummond, R., Engelhart, S.E., Kemp, A.C., Mallinson, D., Thieler, E.R., Riggs, S.R., Ames, D.V. and Thomson, K.H., 2009. Holocene sea-level changes along the North Carolina Coastline and their implications for glacial isostatic adjustment models. *Quaternary Science Reviews*, 28, 1725-1736.

141. **Horton, B.P.,** Rossi, V., Hawkes, A.D., 2009. The Sedimentary Record of the 2005 Hurricane Season along the Gulf Coast, *Quaternary International*, 195, 15-30.

142. Kemp, A.C., **Horton, B.P.**, Corbett, R., Culver, S.J., Edwards, R.J. and van de Plassche, O., 2009. The relative utility of foraminifera and diatoms for reconstructing late Holocene sea-level change in North Carolina, USA. *Quaternary Research*, 71, 9–21.

143. Kemp, A.C., **Horton, B.P.,** and Culver, S.J., 2009. Distribution of modern salt-marsh foraminifera in the Albemarle – Pamlico Estuarine System of North Carolina, USA: Implications for sea-level research. *Marine Micropaleontology*, 72, 222-238.

144. Leorri, E., Martin, R.E. and **Horton B.P.,** 2009. Field experiments on bioturbation in salt marshes (Bombay Hook National Wildlife Refuge, Smyrna, DE, USA): Implications for sea-level studies. *Journal of Quaternary Science*, 24, 139-149.

145. Miller, K.G., Sugarman, P.J., Browning, J.V., **Horton, B.P.,** Stanley, A., Kahn, A., Uptegrove, J. and Aucott, M., 2009. Sea-level rise in New Jersey over the past 5000 years: Implications to Anthropogenic Change. *Global and Planetary Change*, 66, 10-18.

146. Poulter, B, Feldman, R.L., Brinson, M.M., **Horton, B.P.,** Orbach, M.K., Pearsall, S.H., Reyes, E., Riggs, S.R. and Whitehead, J., 2009. Sea Level Rise Research and Dialogue in North Carolina: Creating Windows for Policy Change. *Ocean & Coastal Management*, 52, 147-153.

147. Rossi, V., and **Horton, B.P.,** 2009. The application of a subtidal foraminifera-based transfer function to reconstruct Holocene paleobathymetry of the Po Delta, Northern Adriatic Sea. *Journal of Foraminiferal Research*, 39, 180-190.

148. Vane, C.H., Harrison, I., Kim, A.W., Moss-Hayes, V., Vickers, B.P., **Horton, B.P.,** 2009. Status of Organic Pollutants in Surface Sediments of Barnegat Bay-Little Egg Harbor Estuary, New Jersey, USA. *Marine Pollution Bulletin*, 56 1802-1814.

149. Berkeley, A., Perry, C.T., Smithers S.G. and **Horton, B.P.,** 2008. The spatial and vertical distribution of living (stained) benthic foraminifera from a tropical, intertidal environment, north Queensland, Australia. *Marine Micropaleontology*, 69, 240–261.

150. Brooks, A.J., Bradley, S.L., Edwards, R.J., Milne, G.A., Shennan, I. and **Horton, B.P.**, 2008. Post-Glacial relative sea-Level observations from Ireland and their role in glacial rebound modelling. *Journal of Quaternary Science*, 23, 175-192.

151. Cearreta, A., Leorri, E., Gehrels, R.W., **Horton, B.P.,** 2008. A high marsh transfer function for sea-level reconstructions in the southern Bay of Biscay. *Revista de Investigacian Marina,* 3, 66-67.

152. Culver, S.J., Farrell, K., Mallinson, D.J., **Horton, B.P.,** Willard, D.A., Thieler, E.R., Riggs, S.R., Snyder, S.W., Wehmiller, J.F., Bernhardt, C.E., and Hillier, C., 2008. Micropaleontologic record of Late Pliocene and Quaternary paleoenvironments in the northern Albemarle Embayment, North Carolina, U.S.A. *Palaeogeography, Palaeoecology, Palaeoclimatology*, 264, 54–77.

153. **Horton, B.P.** and Culver, S.J., 2008. Modern intertidal foraminifera of the Outer Banks, North Carolina, USA and their applicability for sea-level studies. *Journal of Coastal Research*, 24, 1110-1125.

154. **Horton, B.P.,** Bird, M., Birkland, T., Cowie, S., Grundy-Warr, C., Hawkes, A.D., Tan Shau Hwai, A., Law, L., Macgregor, C., Nott, J., Eong Ong, J., Rigg, J., Robinson, R., Tan-Mullins, M., Tiong Sa, T. and Zulfigar, Y., 2008. Environmental and socio-economic dynamics of the Indian Ocean Tsunami in Penang, Malaysia. *Singapore Journal of Tropical Geography*, 29, 307-324.

155. Leorri, E., Cearetta, A. and **Horton, B.P.,** 2008. A foraminifera-based transfer function as a tool for sea-level reconstructions in the southern Bay of Biscay. *Geobios*, 41, 787-797.

156. Leorri, E., **Horton, B.P.** and Cearetta, A. 2008. Development of a foraminifera-based transfer function in the Basque marshes, N. Spain: implications for sea-level studies in the Bay of Biscay. *Marine Geology*, 251, 60-74.

157. Nelson, A. R., Sawai, Y., Jennings, A. E., Bradley, L-A., Gerson, L., Sherrod, B. L., Sabean, J. and **Horton, B.P.,** 2008. Great earthquake paleogeodesy and tsunamis of the past 2000 years at Alsea Bay, central Oregon coast, USA. *Quaternary Science Reviews,* 27, 747-768.

158. Vicente, I., Leorri, E., Cearreta, A., Gehrels, R. and **Horton, B.P.,** 2008. Salt marsh response to recent sea-level rise acceleration in the Southern Bay of Biscay. *Geotemas*, 10, 659-662.

159. Vane, C.H., Harrison, I., Kim, A.W., Moss-Hayes, V., Vickers, B.P., **Horton, B.P.,** 2008. Status of Organic Pollutants in Surface Sediments of Barnegat Bay-Little Egg Harbor Estuary, New Jersey, USA. *Marine Pollution Bulletin*, 56, 1802-1814.

160. Bird, M., Cowie, S., Eong Ong, J., Hawkes, A., **Horton, B.P.,** Tan Shau Hwai, A., Wooi Khoon, G., Macgregor, C., Tiong Sa, T. and Yasin, Z., 2007. Indian Ocean tsunamis: environmental and socio-economic impacts in Langkawi, Malaysia. *The Geographical Journal*, 173, 103–117.

161. Burt, T.P., and **Horton, B.P.,** 2007. Inter-decadal variability in daily rainfall at Durham (UK) since the 1850s. *International Journal of Climatology*, 27, 945-956.

162. Culver, S.J., Grand Pre, C.A., Mallinson, D.J., Riggs, S.R., Corbett, D.R., Foley, J., Hale, M., Metger, L. Ricardo, J., Rosenberger, J., Smith, C.G., Smith, C.C.W., Snyder, S.W., Twamley, D., Farrell, K. and **Horton, B.P.,** 2007. Late Holocene barrier island collapse: Outer Banks, North Carolina, U.S.A. *The Sedimentary Record*, 5, 4-8.

163. Engelhart, S.E., **Horton, B.P.,** Roberts, D.H., Bryant, C.L. and Corbett, D.R., 2007. Mangrove Pollen of Indonesia and its suitability as a sea-level indicator. *Marine Geology,* 242, 65-81.

164. Day, J.W., Gunn, J.D., Folan, W.J., Yáñez-Arancibia, A. and **Horton, B.P.,** 2007. Post-Glacial Coastal Margin Productivity and the Emergence of Civilizations. *Eos Trans. AGU*, 80, 170-171.

165. Day, J.W., Gunn, J.D., Folan, W.J., Yáñez-Arancibia, A. and **Horton, B.P.,** 2007. Reply to comment on "Emergence of complex societies after sea level stabilized" *Eos Trans. AGU*, 88, 429.

166. Hawkes, A. D., Bird, M., Cowie, S., Grundy-Warr, C., **Horton, B.P.,** Tan Shau Hwai, A., Law, L., Macgregor, C., Nott, J., Eong Ong, J., Rigg, J., Robinson, R., Tan-Mullins, M., Tiong Sa, T. and Zulfigar, Y., 2007. The Sediments Deposited by the 2004 Indian Ocean Tsunami along the Malaysia-Thailand Peninsula. *Marine Geology,* 242, 169-190.

167. Hawkes, A.D., Engelhart, S. and **Horton, B.P.,** 2007. Tsunami: a white cobra hits Pangandaran West Java. *Geology Today*, 23, 10.

168. **Horton, B.P.,** 2007. Forensic Science. *The Paleontological Society Papers*, 13, 181-190.

169. **Horton, B.P.** and Murray, J.W., 2007. The roles of elevation and salinity as primary controls on living foraminiferal distributions: Cowpen Marsh, Tees Estuary, UK. *Marine Micropaleontology*, 63, 169-186.

170. **Horton, B.P.,** Culver, S. J., Hardbattle, M.I.J., Larcombe, P., Milne, G.M., Morigi, C., Whittaker, J. E., and Woodroffe, S. A., 2007. Reconstructing Holocene sea-level change for the Great Barrier Reef using subtidal foraminifera. *Journal of Foraminiferal Research*, 37, 327-343.

171. **Horton, B.P.**, Zong, Y., Hillier, C. and Engelhart, S., 2007. Diatoms from Indonesian mangroves and their suitability as sea-level indicators for tropical environments. *Marine Micropaleontology*, 63, 155-168.

172. Boomer, I. and **Horton, B.P.,** 2006. Holocene relative sea-level movements along the North Norfolk Coast, UK. *Palaeogeography, Palaeoclimatology, Palaeoecology,* 23, 32-51.

173. Edwards, R.J. and **Horton, B.P.**, 2006. Developing High Resolution Records of Relative Sea-Level Change Using a Microfossil Transfer Function: An Example from North Norfolk, UK. *Philosophical Transactions of the Royal Society*, 364, 973–991.

174. **Horton, B.P.** and Edwards, R.J., 2006. Quantifying Holocene Sea Level Change Using Intertidal Foraminifera: Lessons from the British Isles. *Cushman Foundation for Foraminiferal Research*, Special Publication v. 40, 97pp.

175. **Horton, B.P.** and Murray, J.W., 2006. Patterns in cumulative increase in live and dead species from foraminiferal time-series of Cowpen Marsh, Tees Estuary, UK: implications for sea-level studies. *Marine Micropaleontology*, 58, 287-315.

176. **Horton, B.P.,** Boreham, S., Hillier, C., 2006. The Development and Application of a Diatom-Based Quantitative Reconstruction Technique in Forensic Science. *Journal of Forensic Science*, 51, 643-650.

177. **Horton, B.P.,** Corbett, R., Culver, S.J., Edwards, R.J., and Hillier, C., 2006. Modern saltmarsh diatom distributions of the Outer Banks, North Carolina, and the development of a transfer function for high resolution reconstructions of sea level. *Estuarine, Coastal, and Shelf Science,* 69, 381-394.

178. Rhodes, B., Tuttle, M., **Horton, B.P.,** Doner, L., Kelsey, H., Nelson, A., Cisternas, M., 2006. Paleotsunami Research, *Eos Trans. AGU*, 87, 205, 209.

179. Roberts, D. H., Chiverrell, R. C., Innes, J. B., **Horton, B.P.,** Brooks, A. J., Thomas, G. S. P., Turner, S. and Gonzalez S., 2006. Holocene sea levels, Last Glacial Maximum glaciomarine environments and geophysical models in the northern Irish Sea Basin, UK. *Marine Geology*, 231, 113-128.

180. Atwater, B. F., Bourgeois, J., Yeh, H., Abbott, D., Cisternas, M., Glawe, U., Higman, B., **Horton, B.P.,** Peters, R., Rajendran, K., and Tuttle, M.P., 2005. Tsunami Geology and its role in Hazard Mitigation. *Eos Trans. AGU*, 86, 400.

181. Buranakul, S., Grundy-Warr, C., **Horton, B.P.,** Law, L., Rigg, J., Tan-Mullins, M., 2005. The Asian tsunami, academics and academic research. *Singapore Journal of Tropical Geography*, 26, 244-248.

182. Culver, S.J. and **Horton, B.P.,** 2005. Infaunal marsh foraminifera from the Outer Banks, North Carolina, *Journal of Foraminiferal Research*, 35, 148-170.

183. **Horton, B.P.,** 2005. Climate and sea-level change. *Geography Review,* 18, 28-31.

184. **Horton, B.P.** and Edwards, R.J., 2005. The application of local and regional transfer functions to reconstruct former sea levels, North Norfolk, England. *The Holocene*, 15, 216-228.

185. **Horton, B.P.,** Gibbard, P.L., Milne, G.M., Stargardt, J.M., 2005, Holocene sea levels and palaeoenvironments of the Malay-Thai Peninsula, Southeast Asia. *The Holocene*, 15, 1199-1213.

186. **Horton, B.P.,** Thomson, K., Woodroffe, S.E., Whittaker, J.E., Wright, M.W., 2005. Contemporary foraminiferal distributions, Wakatobi National Park, Southeast Sulawesi, Indonesia, *Journal of Foraminiferal Research*, 35, 1-14.

187. Mallinson, D., Riggs, S., Thieler, E.R., Culver, S., Farrell, K., Foster, D.S., Corbett, D R., **Horton, B.P.,** and Wehmiller, J., 2005. Late Neogene and Quaternary Evolution of the Northern Albemarle Embayment (Mid-Atlantic Continental Margin, U.S.A.). *Marine Geology.* 217, 97-117.

188. Morigi, C., Jorissen, F.J., Fraticelli, S., **Horton, B.P.,** Principi, M., Sabbatini, A., Capotondi, L., Curzi, P.V., and Negri, A., 2005. Benthic foraminiferal evidence for the formation of the Holocene mud-belt and bathymetrical evolution in the central Adriatic Sea. *Marine Micropaleontology,* 57, 25-49.

189. Woodroffe, S.A. and **Horton, B.P.,** 2005. Late and post glacial sea-level changes of the Indo-Pacific: a review. *Journal of Asian Earth Science,* 25, 29-43.

190. Woodroffe, S.A., **Horton, B.P.,** Larcombe, P. and Whittaker, J.E., 2005. Contemporary intertidal foraminiferal distributions of mangrove environments from Cleveland Bay, Great Barrier Reef Shelf, Australia: implications for sea-level reconstructions. *Journal of Foraminiferal Research,* 35, 259-270.

191. Bateman, M.D., Holmes, P.J., Carr, A.S., **Horton, B.P.,** and Manoj, K.J., 2004. Aeolianite and Barrier Dune Construction spanning the Last Two Glacial-Interglacial Cycles from Southern Cape Coast, South Africa. *Quaternary Science Reviews,* 23*,* 1681-1698.

192. **Horton, B.P.,** 2004. Is climate changing? *Geography Review,* 18, 2-6.

193. **Horton, B.P.,** Innes, J.B., Shennan, I. and Lloyd, J.M., 2004. A contribution to the history of coastal change in East Norfolk: palaeoenvironmental data from Somerton and Winterton Holmes. *Proceedings of the Geologists Association,* 115, 209–220.

194. Sawai, Y. Nagumo, T. and **Horton, B.P.,** 2004. Diatom-based elevation transfer function along the Pacific coast of eastern Hokkadio, northern Japan – an aid in paleo-seismic study along the coasts near Kurile subduction zone. *Quaternary Science Reviews,* 23, 2467-2484.

195. Burt, T.B. and **Horton, B.P.,** 2003. The climate of Malham Tarn. *Field studies,* 10, 635-652.

196. **Horton, B.P.,** Larcombe, P., Woodroffe, S.E., Whittaker, J.E., Wright, M.W. and Wynn, C., 2003. Contemporary foraminiferal distributions of the Great Barrier Reef coastline, Australia: implications for sea-level reconstructions. *Marine Geology*, 3320, 1-19.

197. **Horton, B.P.** and Edwards R.J., 2003. Seasonal distributions of foraminifera and their implications for sea-level studies. *SEPM* Special Publication No. 75, 21-30.

198. Shennan, I., Coulthard, T., Flather, R., **Horton, B.P.,** Macklin, M., Rees, J. and Wright, M.R., 2003. Integration of shelf evolution and river basin models to simulate Holocene sediment dynamics of the Humber Estuary during periods of sea-level change and variations in catchment sediment supply. *The Science of the Total Environment*, 737-754.

199. Peltier, W.R., Shennan, I., Drummond, R. and **Horton, B.P.,** 2002. On the post-glacial isostatic adjustment of the British Isles and the shallow visco-elastic structure of the Earth. *Geophysical Journal International*, 148, 443-475.

200. Shennan, I. and **Horton, B.P.**, 2002. Relative sea-level changes and crustal movements of the UK, *Journal of Quaternary Science*, 16, 511-526.

201. Shennan, I., Peltier, W.R., Drummond, R. and **Horton, B.P.,** 2002. Global to local scale parameters determining relative sea-level changes and the post-glacial isostatic adjustment of Great Britain. *Quaternary Science Reviews,* 21, 397-408.

202. Burt, T.P. and **Horton, B.P**., 2001. The natural history of the Slapton Ley National Nature Reserve XXII: the climate of Slapton Ley. *Field Studies,* 10(1), 93-114.

203. **Horton, B.P.**, 2001. 'I hear and I forget, I see and I remember, I do and I understand' – putting learning models into practice. *Planet,* 2, 12-15.

204. **Horton, B.P.** and Edwards R.J., 2001. Quantitative Palaeoenvironmental Reconstruction techniques in Sea-level Studies. Archaeology in the Severn Estuary, 11, 105-120.

205. Edwards, R.J. and **Horton, B.P.**, 2000. High Resolution Records of Relative Sea-Level Change from U.K. Salt-marsh Foraminifera. *Marine Geology.* 169, 41-56.

206. **Horton, B.P.,** Edwards, R.J. and Lloyd, J.M., 2000. Implications of a microfossil transfer function in Holocene sea-level studies. *Geological Society Special Publication*, 166, 41-54.

207. Metcalfe, S.E., Ellis, S., **Horton, B.P.,** Innes, J.B., McArthur, J.J., Mitlehner, A., Parkes, A., Pethick, J.S., Rees, J.G., Ridgway, J., Rutherford, M.M., Shennan, I. and Tooley, M.J., 2000. The Holocene evolution of the Humber estuary: reconstructing change in a dynamic environment. *Geological Society Special Publication*, 166, 97-118.

208. Plater, A.J., **Horton, B.P.,** Haworth, E.Y., Rutherford, M.M., Zong, Y., Wright, M.R., and Appleby, P.G., 2000. Reconstructing Holocene rates of tidal sedimentation using a diatom-based transfer function approach: The Tees estuary, north-east England. *The Holocene*, 10, 41-552.

209. Plater, A.J., Ridgway, J., Rayner, B., Shennan, I., **Horton, B.P.,** Haworth, E.Y., Wright, M.R. and Wintle, A.G., 2000. Sediment provenance and flux in the Tees estuary: the record from the Late Devensian to the present. *Geological Society Special Publication*, 166,171-196.

210. Ridgway, J., Andrews, J.E., Ellis, S., **Horton, B.P.,** Innes, J.B., Knox, R.W. O'B., McArthur, J.J., Maher, B.A., Metcalfe, S.E., Mitlehner, A., Parkes, A., Rees, J.G., Samways, G.M. and Shennan, I., 2000. Analysis and interpretation of Holocene Sedimentary sequences: techniques applied in the Humber Estuary. *Geological Society Special Publication*, 166, 9-40.

211. Shennan, I., Lambeck, K., **Horton, B.P.,** Innes, J.B., Lloyd, J.L., McArthur, J.J., and Rutherford, M.M., 2000. Holocene isostasy and relative sea-level changes on the east coast of England. *Geological Society Special Publication*, 166, 275-298.

212. Shennan, I., **Horton, B.P.,** Innes, J.B., Gehrels, W.R., Lloyd, J.M., McArthur, J.J. and Rutherford, M.M., 2000. Late Quaternary sea-level changes, crustal movements and coastal evolution in Northumberland. *Journal of Quaternary Science*, 15, 3, 215-237.

213. Shennan, I., Lambeck, K., Flather, R., Wingfield, R. **Horton, B.P.,** McArthur, J.J., Innes, J.B., Lloyd, J.L., and Rutherford, M.M., 2000. Modelling western North Sea palaeogeographies and tidal changes during the Holocene. *Geological Society Special Publication*, 166, 299-319.

214. Shennan, I., Lambeck, K., **Horton, B.P.,** Innes, J.B., Lloyd, J.M., McArthur, J.J., Purcell, A. and Rutherford, M.M., 2000. Late Devensian and Holocene records of relative sea-level changes in northwest Scotland and their implications for glacio-hydro-isostatic modelling. *Quaternary Science Reviews*, 19, 1103-1135.

215. **Horton, B.P.,** 1999. The contemporary distribution of intertidal foraminifera of Cowpen Marsh, Tees Estuary, UK: implications for studies of Holocene sea-level changes. *Palaeogeography, Palaeoclimatology, Palaeoecology Special Issue*, 149, 127-149.

216. **Horton, B.P.,** Edwards, R.J. and Lloyd, J.M., 1999. Reconstruction of former sea levels using a foraminiferal-based transfer function. *Journal of Foraminiferal Research*, 29, 117-129.

217. **Horton, B.P.,** Edwards, R.J. and Lloyd, J.M., 1999. UK intertidal foraminiferal distributions: implications for sea-level studies. *Marine Micropaleonotology*, 36, 205-223.

218. Zong, Y. and **Horton, B.P.,** 1999. Diatom-based tidal-level transfer functions as an aid in reconstructing Quaternary history of sea-level movements in Britain. *Journal of Quaternary Science*, 14, 153-167.

219. Zong, Y. and **Horton, B.P.,** 1998. Diatom zones across intertidal flats and coastal saltmarshes in Britain. *Diatom Research,* 13, 375-394.

BOOKS AND EDITED VOLUMES

1. Kopp, R.E., Broccoli, A., **Horton**, **B.P.,** Kreeger, D. R. Leichenko, J.A. Miller, J.K. Miller, P. Orton, A. Parris, D. Robinson, C.P., Weaver, M. Campo, M. Kaplan, M. Buchanan, J. Herb, L Auermuller and C. Andrews. 2016. Assessing New Jersey's Exposure to Sea-Level Rise and Coastal Storms: Report of the New Jersey Climate Adaptation Alliance Science and Technical Advisory Panel. Prepared for the New Jersey Climate Adaptation Alliance. New Brunswick, New Jersey. http://dx.doi.org/doi:10.7282/T3ZP48CF
2. Callahan, J., Wunsch, D., McKenna, T., Leathers, D., Scarborough, R., Swallow, D., **Horton, B.P.,** Nikitina, D., Michael, H., Sommerfield, C., Volk, J., and McKenna, K., (2016). Recommendation of Sea-Level Rise Planning Scenarios for Delaware: Technical Report, Coordinated by the Delaware Geological Survey with support from DNREC Delaware Coastal Programs
3. **Horton, B.P.,** (ed.), 2015. Topical Collection on Sea Level Projections. Current Climate Change Reports, Springer, ISSN 2198-6061
4. Freymueller, J.T., Haeussler, P.J., **Horton, B.P.** and Shennan, I., (eds.) 2015. Megathrust Earthquakes and Sea-level Change: a Tribute to George Plafker, Quaternary Science Reviews, Volume 113, 1-192.
5. Shennan, I., Long, A.J. and **Horton, B.P.,** (eds.) 2015. Handbook of Sea-Level Research. John Wiley & Sons: Chichester. ISBN: 978-1-118-45258-5.
6. Boesch, D.F., L.P. Atkinson, W.C. Boicourt, J.D. Boon, D.R. Cahoon, R.A. Dalrymple, T. Ezer, **B.P. Horton**, Z.P. Johnson, R.E. Kopp, M. Li, R.H. Moss, Parris, C.K. Sommerfield. 2013. Updating Maryland's Sea-level Rise Projections. Special Report of the Scientific and Technical Working Group to the Maryland Climate Change Commission, 22 pp. University of Maryland Center for Environmental Science, Cambridge, MD
7. Dalrymple, R.A., Breaker, L.C., Brooks, B.A., Cayan, D.R., Griggs, G.B., Han, W., **Horton, B.P.,** Hulbe, C.L., McWilliams, J.C., Mote, P.W., Pfeffer, W.T., Reed, D.J., Shum, C.K., 2012. Sea-Level Rise for the Coasts of California, Oregon, and Washington: Past, Present, and Future. The National Academies Press. ISBN978-0-309-25594-3. 250 pp.
8. Sloss, C.R., Switzer, A.D., **Horton, B.P.** and Zong, Y., (eds.) 2012. Coastal Change during the Late Quaternary. *Quaternary Science Reviews*, Volume 54, ISSN 0277-3791.
9. **Horton, B.P.,** Long, A.J. and Donnelly, J.P., (eds.) 2009. Quaternary Ice Sheet-Ocean Interactions and Landscape Responses. *Quaternary Science Reviews*, Volume 28, Issues 17-18. ISSN 0277-3791.
10. **Horton, B.P.** and Shennan, I., (eds.) 2001. *Sea-level changes and Neotectonics.* International Geological Correlation Programme Project No. 437, University of Durham, 150 pp. ISSN 1356 0557.
11. Bridgland, D.R., **Horton, B.P.** and Innes, J.B., (eds.) 1999. *Late Quaternary of Northeast England.* Quaternary Research Association, University of Durham, 205 pp. ISSN 0261 3611.

CHAPTERS (PEER-REVIEWED) WITHIN BOOKS OR EDITED VOLUMES

1. Hijma, M.P., Engelhart, S.E., Tornqvist, T.E., **Horton, B.P.,** Hu, P. and Hill, D.E., 2015. A protocol for a geological sea-level database. *In:* Shennan, I., Long, A.J., Horton, B.P. (eds.) The Handbook of Sea-Level Research. John Wiley & Sons: Chichester. 295-311. ISBN: 978-1-118-45258-5.

2. Khan, N.S., Vane, C.H., **Horton, B.P.,** (2015). Stable carbon isotope and C/N geochemistry of coastal wetland sediments as a sea-level indicator. *In:* Shennan, I., Long, A.J., Horton, B.P. (eds.) The Handbook of Sea-Level Research. John Wiley & Sons: Chichester. 536-554. ISBN: 978-1-118-45258-5.
3. Kemp, A.C., **Horton, B.P.** and Engelhart, S.E., 2013. Late Quaternary relative sea-level changes in mid latitudes. *In:* Elias S.A. (ed.), The Encyclopedia of Quaternary Science, vol. 4, Amsterdam: Elsevier, 489-494.
4. **Horton, B.P.,** Engelhart, S.E., Kemp, A.C., Sawai, Y., 2013. Microfossils in tidal settings as indicators of sea-level change, paleoearthquakes, tsunamis, and tropical cyclones. *In:* John F. Shroder (ed.) Treatise on Geomorphology, vol. 14, San Diego: Academic Press, 292-314.
5. Kemp, A.C., Nelson, A.R. and **Horton, B.P.,** 2013. Radiocarbon dating of plant macrofossils from tidal-marsh sediment. *In:* John F. Shroder (ed.) Treatise on Geomorphology, vol. 14, San Diego: Academic Press, 370-388.
6. Rigg, J., Law, L., Tan-Mullins, M., Grundy-Warr, C. and **Horton, B.P.**, 2012. The Wake of the Tsunami: Researching Across Disciplines and Developmental Spaces in Southern Thailand. *In*: Kearnes, M., Klauser, F. and Lane, S. (eds.), Critical Risk Research: Practices, Politics and Ethics, John Wiley & Sons, 173-196.
7. **Horton, B.P.,** and Sawai, Y., 2010. Diatoms as Indicators of Coastal Evolution. *In:* Smol, J.P., and Stoermer E. F., (eds.) *The Diatoms: Applications for the Environmental and Earth Sciences.* 2nd edition. Cambridge University Press. Cambridge, 357-372.
8. **Horton, B.P.,** 2007. Late Quaternary relative sea-level changes in mid latitudes. *In:* Elias, S. A., (ed.) *Encyclopedia of Quaternary Science*, Elsevier, 3064-3071.
9. Roberts, D. H., Chiverrell, R. C., Innes, J. B., Gonzalez, S., Turner, S. and **Horton, B. P.,** 2004. New data on Holocene sea-level changes on the Isle of Man. *In*: R. C., Plater, A. J. and Thomas, G. S. P. Chiverrell, (eds.) *The Quaternary of the Isle of Man and North West England*. Quaternary Research Association, 112-124.

2021