CURRICULUM VITAE: PROFESSOR BENJAMIN PETER HORTON

Asian School of the Environment, Nanyang Technological University, 50 Nanyang View, Singapore 639798.
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EDUCATION

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

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

EMPLOYMENT HISTORY

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

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

2017 – : Professor, Asian School of the Environment, Nanyang Technological University, Singapore.

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

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).
- 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

- Chair of the Asian School of the Environment, which is an interdisciplinary school that integrates earth and environmental life sciences to address key environmental challenges in Southeast Asia.
- 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 27 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 2019, which totals more than SG$17 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, and Malay-Thai Peninsula.

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, 2018).
- 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 and Climate Central.
- 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), New Jersey Sea Level Rise Projections Panel (2015), Delaware Sea Level Rise Projections Panel (2015), Maryland Sea Level Rise Projections Update Panel (2013).

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=24)

- Nanyang Technological University: Tan Fang Yi (PhD 2018 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), Isabel Hong (2020 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).

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

Professor Andrew Parnell (The National University of Ireland, Maynooth).

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

Associate Professors Simon Engelhart (University of Rhode Island, USA; Durham University UK); Andrea Hawkes (University of North Carolina, USA); 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 (University of Southern Mississippi, USA); Veronica Rossi (University of Bologna, Italy); Qiu Qiang (Chinese Academy of Science).

MAJOR RESEARCH GRANTS

Total funds awarded to Horton from 2004-2017 is SG$17,044,962.

MINISTRY OF EDUCATION, SINGAPORE

Current

- Tier3. Southeast Asia SEA-Level program (SEA^2); PI; $9,114,640
- 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

- NRF Singapore International Collaborative Fellowship for the Commonwealth; PI; $250,000; 2018-2020.

UNITED STATES NATIONAL SCIENCE FOUNDATION

Current

- 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.

Previous

- 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

Previous

- *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 PREVIOUS 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. **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.* 10.1038/s41612-020-0121-5
2. 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*.
3. 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
4. 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.
5. **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
6. **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*. DOI: 10.1038/s41467-018-05080-0.
7. 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*. doi: 10.1073/pnas.1703568114.
8. **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.
9. 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
10. 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. doi: 10.1038/ncomms16019.
11. 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.

12. 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.
13. 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.
14. 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.
15. 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*. doi:10.1130/G36706.1.
16. 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.
17. 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.
18. 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.
19. Bernhardt, C.E., **Horton, B.P.** and Stanley, J-D, 2012. Nile Delta vegetation response to Holocene climate variability. *Geology*, 40, 615-618.
20. 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.* DOI: 10.1038/NGEO1615.
21. 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.
22. 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.
23. 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.
24. 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.
25. **Horton, B.P.,** and Shennan, I., 2009. Compaction of Holocene strata and the implications for relative sea-level change. *Geology*, 37, 1083-1086.
26. 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.
27. 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.

28. 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)

29. Chen H., Shaw, T.A., Wang, J., Engelhart, S.E., Nikitina, D., Pilarczyk, J.E., Walker, J., García- Artola, A., **Horton, B.P.**, in press. Salt-marsh foraminiferal distributions from mainland northern Georgia, USA: an assessment of their viability for sea-level studies. *Open Quaternary*.
30. 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
31. 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
32. Christopher H. 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.
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