

## Biographic Sketch

**Till J.J. Hanebuth, Ph.D.**

October 4, 2023

*Professor (Coastal and Marine Geology)*

Department of Marine Sciences (MSCI/BS, CMWS/MS, CMSS/PhD programs)

Coastal Carolina University

Coastal Science Center, Room 151 E, 301 Allied Drive, Conway, SC 29528

Office: (843) 349-2753; Cell: (508) 514- 9001; Email: thanebuth@coastal.edu

### Appointments

Since 2022	Professor, Head of the Coastal Geosystems Research Lab, Dept. of Coastal and Marine System Science, Coastal Carolina University, Conway, SC, U.S.A.
Fall 2019	Guest Investigator, Department of Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution, Woods Hole, MA, U.S.A. (2 months)
2018 – 2022	Tenured Associate Professor, Head of the Coastal Geosystems Research Lab, Dept. of Coastal and Marine System Science, Coastal Carolina University, Conway, SC, U.S.A.
2015 – 2018	Affiliated Scientist, MARUM – Center for Marine Environmental Sciences, University of Bremen, Germany
2014 – 2018	Associate Professor, Head of the Coastal Geosystems Research Lab, School of Coastal and Marine System Science, Coastal Carolina University, Conway, SC, U.S.A.
2013 – 2014	Guest Investigator, Coastal Systems Group, Dept. of Geology and Geophysics, Woods Hole Oceanographic Institution, Woods Hole, MA, U.S.A. (13 months)
2010 – 2014	DFG Heisenberg Fellow, Head of the Marine Sedimentation Systems Group, MARUM – Center for Marine Environmental Sciences, University of Bremen, Germany
2008 – 2010	Senior Scientist, Sedimentology/Palaeoceanography Group, Faculty of Geosciences, University of Bremen, Germany
2002 – 2008	Assistant Professor ( <i>Wissenschaftlicher Assistent</i> ), Sedimentology/Palaeoceanography Group, Faculty of Geosciences, University of Bremen, Germany
2001 – 2002	A.v.Humboldt Fellow (Feodor-Lynen/STA), Urban and Coastal Geology Group, Geological Survey of Japan, Tsukuba, Japan (18 months)
2000 – 2001	DFG-Graduate School Dynamics of Global Cycles within the System Earth, GEOMAR, Kiel, Germany (8 months)

### Professional Preparation

Habilitation	University of Bremen, Germany	Marine Geosciences	2010
D.Sc.	Chr.-Albrechts-University Kiel, Germany	Geology-Paleontology	1996-2000
M.Sc.	Philipps-University Marburg, Germany	Geology-Paleontology	1993-1996
B.Sc.	University of Hamburg, Germany	Geology-Paleontology	1990-1993

### Pre-Academic Preparation

Army service	Radio operator, German Navy	1988-1990
Abitur	Gelehrtenschule des Johanneums, Hamburg, Germany	1988

## Career Achievement and Expertise in Brief

<b>Scientific Interests</b>	Geology, Sedimentology, Geochemistry, Paleoceanography, Stratigraphy. Sediment- and hydrodynamic processes in river, coast, continental shelf and slope systems; Environmental control on sediment dynamics: climate, oceanography, sea level, coastal dynamics; Human impact: coastal modifications, contamination, bottom trawling
<b>Publications</b>	95 international peer-reviewed articles; H-index: 34 (Google Scholar)
<b>Teaching</b>	Since 2002; Bachelor, Master's, and PhD levels Diversity of courses around coastal and marine geological topics and issues; various field trainings (Alps, Denmark, central Germany; coastal Carolinas, Appalachian Mountains/Cumberland Plateau, U.S. east coast)
<b>Thesis Supervision</b>	10 PhD, 16 Diploma/Master's, 12 Bachelor students (in Germany) 2 PhD, 7 Master's, 6 Bachelor students (in the U.S.)
<b>Interdisciplinary Lab</b>	Collaboration with seismo-acoustics, oceanography and hydrodynamics, inorganic/isotopic/organic geochemistry, palaeoceanography, palaeoclimatology, archaeology, geomagnetics, micro-palaeontology and ecology
<b>Int'l Research Cruises</b>	14 extended ship expeditions, 5 of these as PI (South China Sea, NW Spain, Mauritania, Uruguay/Argentina, Brazil, Barents Sea)
<b>Int'l Field Expeditions</b>	5 extended land expeditions, 3 of these as PI (Vietnam, Bangladesh)
<b>Int'l Cooperation</b>	<i>Europe:</i> Uni Vigo, Uni Barcelona, OGS/Trieste, Uni Poznan, Uni Granada, Geol. Survey of Spain/Madrid, Uni Cologne, IFREMER/Brest, Uni Kiel, GEOMAR/Kiel, AWI/Bremerhaven, MARUM/Uni Bremen, HZG/Geesthacht <i>N America:</i> Wood Hole Oceanographic Institution, USGS (San Diego/CA), SC State Geological Survey, Uni North Carolina Wilmington/NC, Uni South Carolina/SC, California Polytechnical/CA, Skidaway/GA <i>S America:</i> Federal University of Parana/Curitiba, Uni Sao Paulo, Uni Montevideo/Rocha, Hydrographic Survey Buenos Aires <i>Asia:</i> Geological Survey of Japan/Tsukuba, Uni Tokyo, Nat'l Uni Taiwan, Vietnamese Acad. Science and Tech., Geol. Survey Bangladesh, Uni Dhaka
<b>Current Res. projects</b>	GEORGETOWN SILTING – <i>Feasibility study addressing the chronic silting and contamination issues around Georgetown harbor and Sampit River</i> SC-SUBSIDENCE – <i>Relative sea level history and subsidence in central South Carolina</i> GALIOMAR – <i>Sediment structures and critical ocean interfaces on the Galician margin &amp; the Gulf of Cadiz (Iberian Peninsula)</i> CADISED – <i>Sediment structures and critical ocean interfaces on the Galician margin &amp; the Gulf of Cadiz (Iberian Peninsula)</i> ARGENTINE SLOPE – <i>Interaction of topography and bottom currents in a major contouritic system</i> SUNDARBANS – <i>Sea level and subsidence estimates for SW' coastal Bangladesh</i>
<b>Board membership</b>	SC Floodwater Commission (Governor H. McMaster) SC State Mapping Advisory Board (Department of Natural Resources) Regional Sediment Management Group (US Army Corps of Engineers) UN Regional Center for Sustainable Education (United Nations)

	SC Maritime Museum, Georgetown Honors College sustainability advisory board (Coastal Carolina University)
<b>Editorial member</b>	Journal of Sedimentary Environments (JSE) Progress in Earth and Planetary Science (PEPS)
<b>Memberships</b>	American Geophysical Union (AGU), Geological Society of America (GSA), International Association of Sedimentologists (IAS), Carolinas Geological Society (CGS), SEPM, Deutscher Hochschullehrer-Verband (DHV), Programa de Desarrollo de las Ciencias Básicas (Pediciba)
<b>Most cited publ's</b>	TJJ Hanebuth, K Stattegger, PM Grootes (2000). Rapid flooding of the Sunda Shelf: a late-glacial sea-level record. <i>Science</i> 288, 1033-1035. TJJ Hanebuth, HK Voris, Y Yokoyama, Y Saito, J Okuno (2011). Formation and fate of sedimentary depocentres on Southeast Asia's Sunda Shelf over the past sea-level cycle and biogeographic implications. <i>Earth-Science Reviews</i> 104 (1-3), 92-110. TJJ Hanebuth, K Stattegger, A Bojanowski (2009). Termination of the Last Glacial Maximum sea-level lowstand: The Sunda-Shelf data revisited. <i>Global and Planetary Change</i> 66 (1-2), 76-84.

## List of Peer-Review Publications

October 4, 2023

### 2023

1. Long JH, **Hanebuth** TJJ, Durica JT, Hawkes A (accepted). Late Holocene stratigraphy and facies distributions within an anthropogenically modified delta plain (Santee Delta, SC, U.S.A.). *The Holocene*.
2. Burge EJ, Luff SC, Ludwick CE, Coleman NC, Touse RR, **Hanebuth** TJJ (accepted) Depredation by Bottlenose Dolphins *Tursiops truncatus* from Antillean Z-traps at Discovery Bay, Jamaica. *Caribbean Naturalist*.
3. Carrión-Torrente A, Lobo FJ, Puga-Bernabéu A, Luján M, Mendes I, **Hanebuth** TJJ, Lebreiro S, García M, Reguera MI, Antón L, Van Rooij D, Cerrillo-Escoriza J (2023) Two generations of incised valleys on the Algarve Shelf, northern Gulf of Cadiz margin: Controlling factors in a low fluvial supply setting. *Continental Shelf Research* 266, 105095. 10.1016/j.csr.2023.105095.
4. Shaw TA, Li T, Ng T, Cahill N, Chua S, Majewski J, Nathan Y, Garner G, Kopp R, **Hanebuth** TJJ, Switzer A, Horton BP (2023) Deglacial perspectives of future sea level for Singapore. *Nature Communications Earth & Environment* 4, 204. 10.1038/s43247-023-00868-5.
5. Klicpera A, Carranza A, Chiessi CM, Franco-Fraguas P, **Hanebuth** TJJ, Westphal H (2023) Western South Atlantic seasonal variability recorded in a mid-deglacial bivalve from the outer Uruguayan continental shelf. *Continental Shelf Research* 261, 105014. 10.1016/j.csr.2023.105014.

### 2022

6. Kudrass HR, **Hanebuth** TJJ, Zander AM, Linstädter J, Akther HS, Showrup UM (2022) Architecture and function of salt-producing kilns from the 8th to 18th century in the coastal Sundarbans mangrove forest, Central Ganges-Brahmaputra Delta, Bangladesh. *Archaeological Research in Asia* 32, 100412. 10.1016/j.ara.2022.100412.
7. **Hanebuth** TJJ, Kudrass HR, Zander AM, Akther HS, Neumann-Denzau G, Zahid A (2022) Stepwise, earthquake-driven coastal subsidence in southwestern Bangladesh (Sundarbans) since the eighth century deduced from submerged in situ kiln remnants and mangrove stumps. *Natural Hazards* 111, 163-190. 10.1007/s11069-021-05048-2.

## 2021

8. Shen Z, Conway N, **Hanebuth TJJ (2021)** A novel binary pipette splitting sediment subsampling method for improving reproducibility in laser-diffraction particle-size analysis. *MethodX* 101493. 10.1016/j.mex.2021.101493
9. Long JH, **Hanebuth TJJ**, Clark A, Wehmiller J (2021) Depositional Environments and Stratigraphy of Quaternary Paleochannel Systems Offshore of the Georgia Bight, Southeastern USA. *Journal of Coastal Research* 37 (5), 883-905. 10.2112/JCOASTRES-D-20-00088.1.
10. **Hanebuth TJJ**, King ML, Lobo FJ, Mendes I (2021) Formation history and material budget of Holocene shelf mud depocenters in the Gulf of Cadiz. *Sedimentary Geology* 421, 105956. 10.1016/j.sedgeo.2021.105956.
11. Porz L, Zhang W, **Hanebuth TJJ**, Schramm C (2021) Physical processes controlling mud depocenter development on continental shelves – Geological, oceanographic, and modeling concepts. *Marine Geology* 432, 106402. 10.1016/j.margeo.2020.106402.

## 2020

12. Long JH, **Hanebuth TJJ**, Lüdmann T (2020) The Quaternary stratigraphic architecture of a low-accommodation, passive-margin continental shelf (Santee Delta region, South Carolina, U.S.A.). *Journal of Sedimentary Research* 90, 1549-1571. 0.2110/jsr.2020.006.
13. Bozzano G, Cerrredo ME, Remesal M, Steinmann L, **Hanebuth TJJ**, Baqués M, Schwenk T, Spoltore D, Spiess V, Acevedo RD, Violante R, Kasten S (2020) Dropstones in the Mar del Plata Canyon area (SW Atlantic): Evidence for provenance, transport, distribution, and oceanographic implications. *Geochemistry, Geophysics, Geosystems (G<sup>3</sup>)*, GGGE22403. 10.1029/2020GC009333.
14. Mendes I, Lobo FJ, **Hanebuth TJJ**, López-Quirós A, Schönfeld J, Lebreiro S, Reguera MI, Antón L, Ferreira Ó (2020) Temporal variability of flooding events of Guadiana River (Iberian Peninsula) during the middle to late Holocene: Imprints in the shallow-marine sediment record. *Palaeogeography, Palaeoclimatology, Palaeoecology* 556, 109900. 10.1016/j.palaeo.2020.109900.

## 2019

15. **Hanebuth TJJ**, Bender VB, Nagai, RH (2019) Sediment export dynamics reflecting the Holocene hydrodynamic variability of a high-energy continental shelf system (Southeastern South America). *Journal of Sedimentary Environments* 4 (3), 312-331. 10.12957/jse.2019.45616.
16. Zhang W, Didenkuloval I, Kurkina O, Cui Y, **Hanebuth TJJ**, Haberkern J, Santos AI, Aepfler R (2019) Internal solitary waves control offshore extension of mud depocenters on the NW Iberian shelf. *Marine Geology* 409, 15-30. 10.1016/j.margeo.2018.12.008.
17. Petrovic A, Lantzsch H, Schwenk T, Marquardt J, Titschack J, **Hanebuth TJJ (2019)** Post-LGM upward shift of the Mediterranean Outflow Water recorded in a contourite drift off NW Spain. *Marine Geology* 407, 334-349. 10.1016/j.margeo.2018.11.015.

## 2018

18. Mourelle D, Pérez L, **Hanebuth TJJ**, Lantzsch H, García-Rodríguez F (2018) Oceanographic changes over the past millennium reconstructed from a palynological record off Uruguay. *Journal of Sedimentary Environments* 3 (4), 234-252. 10.12957/jse.2018.39141.
19. Pérez L, Crisci C, **Hanebuth TJJ**, Lantzsch H, Perera G, Pérez A, Fornaro L, García-Rodríguez F (2018) Climatic oscillations modulating the Late Holocene fluvial discharge and terrigenous material supply of the Río de la Plata into the Southwestern Atlantic Ocean. *Journal of Sedimentary Environments* 3 (4), 205-219. 10.12957/jse.2018.38983.
20. **Hanebuth TJJ**, King ML, Mendes I, Lebreiro S, Lobo FJ, Oberle FK, Antón L, Ferreira PA, Reguera MI (2018) Hazard potential of widespread but hidden historic offshore heavy metal (Pb, Zn) contamination

(Gulf of Cadiz, Spain). *Science of the Total Environment* 637-638, 561-576. 10.1016/j.scitotenv.2018.04.352.

21. Mena A, Francés G, Pérez-Arlucea M, **Hanebuth** TJJ, Bender VB, Nombela MÁ (2018) Evolution of the Galicia Interior Basin over the last 60 ka: Sedimentary processes and palaeoceanographic implications. *Journal of Quaternary Science* 33(5), 536-549. 10.1002/jqs.3032.
22. Caricchi C, Lucchi RG, Sagnotti L, Macrì P, Morigi C, Melis R, Caffau M, Rebesco M, **Hanebuth** TJJ (2018) Paleomagnetism and rock magnetism in sediments along a continental shelf-to-slope transect in the NW Barents Sea: implications for geomagnetic and depositional changes during the past 15 thousand years. *Global and Planetary Change* 160, 10-27. 10.1016/j.gloplacha.2017.11.007.

## 2017

23. Lantzsch H, **Hanebuth** TJJ, Horry J, Grave M, Rebesco M, Schwenk T (2017) Deglacial to Holocene history of ice-sheet retreat and bottom current strength on the western Barents Sea. *Quaternary Science Reviews* 173, 40-57. 10.1016/j.quascirev.2017.08.016.
24. Mahiques MM, **Hanebuth** TJJ, Nagai RN, Bicego MC, Figueira RCL, Sousa SHM, Burone L, Franco-Fraguas P, Taniguchi S, Salaroli AB, Dias GP, Prates DM, Freitas MEF (2017) Inorganic and organic geochemical fingerprinting of sediment sources and ocean circulation on a complex continental margin (São Paulo Bight, Brazil). *Ocean Science* 13, 209-222. 10.5194/os-13-209-2017.
25. Perez L, García-Rodríguez F, **Hanebuth** TJJ (2017) Paleosalinity changes in the Río de la Plata estuary and on adjacent Uruguayan continental shelf during the past 1,200 cal ka BP: an approach using diatoms as proxy. In: Weckström K, Saunders K, Gell P, Skilbeck G (eds) "Applications of paleoenvironmental techniques in estuarine studies". *Developments in Paleoenvironmental Research* 20, 529-549. ISBN: 978-94-024-0990-1. **Book chapter.**

## 2016

26. Rebesco M, Urgeles R, Özmaral A, and the CORIBAR team: **Hanebuth** TJJ, Caburlotto A, Hörner T, Lantzsch H, Llopart J, Lucchi RG, Nicolaisen LS, Osti G, Sabbatini A (2016) Grounding Zone Wedges, Kveithola Trough (NW' Barents Sea). In: Dowdeswell JA, Canals M, Jakobsson M, Todd BJ, Dowdeswell EK, Hogan KA (eds) "Atlas of Submarine Glacial Landforms". *Geological Society of London Memoirs* 46, 231-232. 10.1144/M46.32, ISBN 9781786202680. **Book chapter.**
27. Zecchin M, Rebesco M, Lucchi RG, Caffau M, Lantzsch H, **Hanebuth** TJJ (2016) Buried iceberg-keel scouring features in the southern Spitsbergenbanken, NW Barents Sea. *Marine Geology* 382, 68-79. 10.1016/j.margeo.2016.10.005.
28. **Hanebuth** TJJ, Lantzsch H, García-Rodríguez F, Perez Becona L (2016) Currents controlling sedimentation: paleo-hydrodynamic variability inferred from the continental-shelf system off SE South America (Uruguay). In: Muniz P, Conde D, Venturini N, Brugnoli E (eds) "Ciencias Marino Costeras en el Umbral del Siglo XXI: Desafíos en Latinoamérica y el Caribe (XV COLACMAR)", 1-34 (in Spanish). **Book chapter.**
29. Rebesco M, Özmaral A, Urgeles R, Accettella D, Lucchi RG, Rütther D, Winsborrow M, Llopart J, Caburlotto A, Lantzsch H, **Hanebuth** TJJ (2016) Evolution of a high-latitude sediment drift inside a glacially-carved trough based on high-resolution seismic stratigraphy (Kveithola, NW Barents Sea). In: PAST Gateways (Palaeo-Arctic Spatial and Temporal Gateways), Ó Cofaigh C, Briner JP, Kirchner N, Lucchi RG and Meyer H (eds). *Quaternary Science Reviews* 147, 178-193. 10.1016/j.quascirev.2016.02.007.
30. Löwemark LA, Chao WS, Gyllencreutz R, **Hanebuth** TJJ, Chiu PY, Yang TN, Su CC, Chuang CK, León Dominguez DC, Jakobsson M (2016) Variations in glacial and interglacial marine conditions over the last two glacial cycles off northern Greenland. In: PAST Gateways (Palaeo-Arctic Spatial and Temporal Gateways), Ó Cofaigh C, Briner JP, Kirchner N, Lucchi RG and Meyer H (eds). *Quaternary Science Reviews* 147, 164-177. 10.1016/j.quascirev.2015.10.035.

31. Zhang W, Cui Y, Santos A, **Hanebuth TJJ (2016)** Storm-driven bottom sediment transport on a high-energy narrow shelf (NW Iberia) and development of mud depocenters. *Journal of Geophysical Research – Oceans* 121(8), 5751-5772. 10.1002/2015JC011526.
32. Hernández-Molina FJ, Wåhlin A, Bruno M, Ercilla G, Llave E, Serra N, Roson G, Puig P, Rebesco M, Van Rooij D, Roque D, González-Pola C, Sanchéz F, Gómez F, Preu B, Schwenk T, **Hanebuth TJJ**, Sánchez Leal RF, García-Lafuente J, Brackenridge RE, Juan C, Stow DAV, Sánchez-González JM (2016) Oceanographic processes and products around the Iberian margin: a new multidisciplinary approach. In: Van Rooij D, Campbell C, Rueggeberg A, Wåhlin A (eds) "The contourite log-book: significance for palaeoceanography, ecosystems and slope instability". *Marine Geology* 378, 127-156. 10.1016/j.margeo.2015.12.008.
33. Zhang W, **Hanebuth TJJ**, Stöber U (2016) Short-term sediment dynamics on a meso-scale contourite drift (off NW Iberia): impacts of multi-scale oceanographic processes deduced from the analysis of mooring data and numerical modelling. In: Van Rooij D, Campbell C, Rueggeberg A, Wåhlin A (eds) "The contourite log-book: significance for palaeoceanography, ecosystems and slope instability". *Marine Geology* 378, 81-100. 10.1016/j.margeo.2015.12.006.
34. Oberle FKJ, Storlazzi CD, **Hanebuth TJJ (2016)** What a drag: Quantifying the global impact of chronic bottom trawling on continental shelf sediment. *Journal of Marine Sciences* 159, 109-119. 10.1016/j.jmarsys.2015.12.007.
35. Oberle FKJ, Swarzenski P, Reddy C, Nelson B, Baasch B, **Hanebuth TJJ (2016)** Deciphering the lithological consequences of bottom trawling to sedimentary habitats on the shelf. *Journal of Marine Sciences* 159, 120-131. 10.1016/j.jmarsys.2015.12.008.
36. de Mahiques MM, **Hanebuth TJJ**, Martins CC, Montoya-Montes I, Alcántara-Carrío J, Figueria RCL, Bicego MC (2016) Mud depocenters on the continental shelf – a neglected sink for anthropogenic contaminants released in the coastal zone. *Environmental Earth Sciences* 75, 44. 10.1007/s12665-015-4782-z.
37. Perez L, García-Rodríguez F, **Hanebuth TJJ (2016)** Variability in terrigenous sediment supply offshore of the Rio de la Plata (Uruguay) recording the continental climatic history over the past 1200 years. *Climate of the Past* 12, 623-634. 10.5194/cp-12-1-2016.

## 2015

38. **Hanebuth TJJ**, Lantzsch H, Nizou J (2015) Mud depocenters on continental shelves – appearance, initiation times, and growth dynamics. *Geo-Marine Letters* 35 (6), 487-503. 10.1007/s00367-015-0422-6.
39. Hernández-Molina FJ, Wåhlin A, Bruno M, Ercilla G, Llave E, Serra N, Roson G, Puig P, Rebesco M, Van Rooij D, Roque D, González-Pola C, Sanchéz F, Gómez F, Preu B, Schwenk T, **Hanebuth TJJ**, Sánchez Leal RF, García-Lafuente J, Brackenridge RE, Juan C, Stow DAV, Sánchez-González JM (2015) Oceanographic processes and products around the Iberian margin: a new multidisciplinary approach. In: "Geological processes at the Iberian Continental Margin". *Boletín Geológico & Minero* 126 (2-3), 279-326. ISSN 0366-0176.
40. Zhang W, Schneider R, Kolb J, Teichmann T, Dudzinska-Nowak J, Harff J, **Hanebuth TJJ (2015)** Land–sea interaction and morphogenesis of coastal foredunes — A modeling case study from the southern Baltic Sea coast. *Coastal Engineering* 99, 148-166. 10.1016/j.coastaleng.2015.03.005.
41. **Hanebuth TJJ**, Zhang W, Hofmann AL, Löwemark LA, Schwenk T (2015) Oceanic density fronts steering bottom-current induced sedimentation deduced from a 50-ka contourite drift record and numerical modelling (off NW Spain). *Quaternary Science Reviews* 112, 207-225. 10.1016/j.quascirev.2015.01.027.
42. Marrero A, Tudurí A, Pérez L, Cuña C, Muniz P, Figueira RCL, de Mahiques MM, Pittauerova D, **Hanebuth TJJ**, García-Rodríguez F (2015) Historical changes in terrigenous river supply from the Rio de la Plata basin to the inner shelf of Uruguay (in Spanish). *Latin American Journal of Sedimentology and Basin Analysis* 21 (2), 166-179. ISSN 1851-4979.

## 2014

43. Oberle F, Storlazzi C, **Hanebuth TJJ (2014)** Wave-driven sediment mobilization on a storm-controlled continental shelf (Northwest Iberia). *Journal of Marine Sciences* 139, 362-372. 10.1016/j.jmarsys.2014.07.018.
44. Ai F, Preu B, **Hanebuth TJJ**, Krastel-Gudegast S, Strasser M, Kopf A (2014) New constraints on oceanographic vs. seismic control on submarine landslide initiation: a geotechnical approach off Uruguay and northern Argentina. *Geo-Marine Letters* 34, 399-417. 10.1007/s00367-014-0373-3.
45. **Hanebuth TJJ**, Rebesco M, Urgeles U, Lucchi RG, Freudenthal T (2014). Drilling Glacial Deposits in Off-shore Polar Regions. *EOS* 95 (31), 277-278.
46. Lantzsich H, **Hanebuth TJJ**, Chiessi CM, Schwenk T, Violante R (2014) A high-supply sedimentary system controlled by strong hydrodynamic conditions (the continental margin off the Plata Estuary during the late Quaternary). *Quaternary Research* 81, 339-354. 10.1016/j.yqres.2014.01.003.
47. **Hanebuth TJJ**, Kudrass, HR (2014) Historische Salzsiedeöfen und Wurzelhorizonte als Anzeiger für ein rapides Absinken der Küste von Bangladesch. *Spektrum der Wissenschaft*, März, 12-14.
48. Oberle FKJ, **Hanebuth TJJ**, Baasch B, Schwenk T (2014) Volumetric budget calculation of sediment and carbon storage and export for a late Holocene mid-shelf mudbelt system (NW Iberia). *Continental Shelf Research* 76, 12-24. 10.1016/j.csr.2013.12.012.
49. Krastel S, Lehr J, Winkelmann D, Schwenk T, Preu B, Strasser M, Wynn RB, Georgiopolou A, **Hanebuth TJJ (2014)** Mass wasting along Atlantic continental margins: a comparison between NW-Africa and the de la Plata River region (northern Argentina and Uruguay). In: Krastel S, Behrmann JH, Völker D, Stipp M, Berndt C, Urgeles R, Chaytor J, Huhn K, Strasser M, Harbitz CB et al (eds) "Submarine mass movements and their consequences". *Advances in Natural and Technological Hazard Research* 37, 459-469. ISBN 978-3-319-00971-1.

## 2013

50. Szcuzciński W, Jagodziński R, **Hanebuth TJJ**, Stattegger K, Wetzel, A., Mitreğa M, Unverricht D, Phung Van Phach (2013) Modern sedimentation and sediment dispersal pattern on the continental shelf off the Mekong River delta, South China Sea. *Global and Planetary Change* 110, 195-213. 10.1016/j.gloplacha.2013.08.019.
51. **Hanebuth TJJ**, Mersmeyer H, Kudrass, HR, Westphal H (2013) Aeolian to shallow-marine shelf architecture off a major desert since the Late Pleistocene (Northern Mauritania). *Geomorphology* 203, 132-147. 10.1016/j.geomorph.2013.08.031.
52. Preu B, Schwenk T, Hernández-Molina FJ, Strasser M, Huppertz T, **Hanebuth T**, Violante R, Krastel-Gudegast S, Henrich R, Lindhorst K, Meyer M, Spiess V (2013) Interaction between a contourite depositional system and the Mar del Plata canyon off Argentina and Uruguay. *Geo-Temas* 11, 139-140.
53. Bender VB, **Hanebuth TJJ**, Chiessi CM (2013) Holocene shifts of the Subtropical Shelf Front off southeastern South America controlled by high and low latitude forcing. *Paleoceanography* 28, 1-10. 10.1002/palo.20044.
54. **Hanebuth TJJ**, Kudrass HR, Linstädter J, Islam B, Zander AM (2013) Rapid coastal subsidence in the central Ganges-Brahmaputra Delta (Bangladesh) since the 17<sup>th</sup> century deduced from submerged salt-producing kilns. *Geology* 41 (9), 987-990. 10.1130/G34646.1.
55. Voigt I, Henrich R, Preu B, Piola AR, **Hanebuth TJJ**, Schwenk T, Chiessi CM (2013) A submarine canyon as climatic archive – Interaction of the Antarctic Intermediate Water with the Mar del Plata Canyon (Southwest Atlantic). *Marine Geology* 341, 46-57. 10.1016/j.margeo.2013.05.002.

## 2012

56. Löwemark L, O'Regan M, **Hanebuth** TJJ, Jakobsson M (2012) Late Quaternary spatial and temporal variability in Arctic deep-sea bioturbation and its relation to Mn cycles. *Palaeogeography, Palaeoclimatology, Palaeoecology* 365-366, 192-208. 10.1016/j.palaeo.2012.09.028.
57. Wilhelms-Dick D, Westerhold T, Röhl U, Vogt C, **Hanebuth** TJJ, Römmermann R, Kriews M, Kasten S (2012) A comparison of mm scale resolution techniques for element analysis in sediment cores. *Journal of Analytical Atomic Spectrometry* 9, 1574-1584. 10.1039/C2JA30148B.
58. **Hanebuth** TJJ, Proske U, Saito Y, Nguyen VL, Ta, TKO (2012). Early growth stage of a large delta – transformation from estuarine-platform to deltaic-progradational conditions (the northeastern Mekong River Delta, Vietnam). *Sedimentary Geology* 261-262, 108-119. 10.1016/j.sedgeo.2012.03.014.
59. Bender VB, **Hanebuth** TJJ, Mena A, Baumann KH, Frances G, v Dobeneck T (2012) Control of sediment supply, palaeoceanography and morphology on late Quaternary sediment dynamics at the Galician continental slope. *Geo-Marine Letters* 32 (1), 313-335. 10.1007/s00367-012-0282-2.
60. Henkel S, Schwenk T, **Hanebuth** TJJ, Strasser M, Riedinger N, Formolo M, Arnold GL, Tomasini J, Krastel S, Kasten S (2012) Pore water geochemistry as a tool for identifying and dating mass-transport deposits. In: Yamada Y, Kawamura K, Ikehara K, Ogawa Y, Urgeles R, Mosher D, Chaytor J, Strasser M (eds) "Submarine Mass Movements and Their Consequences". *Advances in Natural and Technological Hazards Research* 31, 87-97. Springer, Dordrecht. ISBN 978-94-007-2161-6. **Book chapter**.

## 2011

61. Gröger J, Proske U, **Hanebuth** TJJ, Hamer K (2011) Cycling of trace metals and rare earth elements (REE) in acid sulphate soils in the Plain of Reeds, Vietnam. *Chemical Geology* 288 (3-4), 162-177. 10.1016/j.chemgeo.2011.07.018.
62. Henkel S, Strasser M, Schwenk T, Winkelmann D, **Hanebuth** TJJ, Formolo M, Riedinger N, Tomasini J, Arnold GL, Krastel S, Kasten S (2011) Geochemical constraints on a submarine mass-transport deposit at the continental margin off Uruguay. *Geochemistry, Geophysics, Geosystems* 12, Q08009. 10.1029/2011GC003669.
63. Mena A, Francés G, Pérez-Arlucea M, **Hanebuth** TJJ, Nombela MA (2011) Sedimentary evolution of the Galicia Inner Basin during the last 70 kyr. *Geo-Temas* 11, 125-126.
64. Krastel S, Wefer G, **Hanebuth** TJJ, Antobreh A, Freudenthal T, Preu B, Schwenk T, Strasser M, Violante R, Winkelmann D, and M78/3 shipboard scientific party (2011) Sediment dynamics and geohazards off Uruguay and the de la Plata River region (northern Argentina and Uruguay). *Geo-Marine Letters* 31 (4), 271-283. 10.1007/s00367-011-0232-4.
65. Nizou J, **Hanebuth** TJJ, Vogt C (2011) Deciphering signals of late Holocene fluvial and aeolian supply from a shelf sediment depocentre off Senegal (NW-Africa). *Journal of Quaternary Science* 26 (4), 41-21. 10.1002/jqs.1467.
66. Proske U, **Hanebuth** TJJ, Gröger J, Diem BP (2011) Late Holocene sedimentary and environmental development of the northern Mekong River Delta, Vietnam. In: Switzer A, Saito Y, Yokoyama Y, Catto N (eds) "Quaternary sea level and paleo-environmental reconstructions in the coastal zone of East and South-east Asia". *Quaternary International* 230, 57-66. 10.1016/j.quaint.2009.11.032.
67. **Hanebuth** TJJ, Voris HK, Yokoyama Y, Saito Y, Okuno J (2011) Formation, fate, and implications of depocentres along the sedimentary pathway on the Sunda Shelf (Southeast Asia) over the past 140 ka. *Earth-Science Reviews* 104, 92-110. 10.1016/j.earscirev.2010.09.006.



## 2010

68. Nizou J, **Hanebuth** TJJ, Heslop D, Schwenk T, Palamenghi L, Stuut J-B, Henrich R (2010) The Senegal River mud belt: a high-resolution archive of paleoclimatic change and coastal evolution. *Marine Geology* 278 (1-4), 150-164. 10.1016/j.margeo.2010.10.002.
69. Proske U, **Hanebuth** TJJ, Behling H, Nguyen VL, Ta TKO, Diem BP (2010) The north-eastern Mekong River Delta since the mid-Holocene: Palaeoecological history and implications for prehistoric settlements. *The Holocene* 20 (8), 1257-1268. 10.1177/0959683610374884.
70. Violante RA, Hernández-Molina FJ, Paterlini M, Bozzano G, Krastel S, **Hanebuth** T, Preu B, Laprida C (2010). Contouritic terraces on the Northern Argentina middle continental slope (southwestern Atlantic). *Geo-Temas* 11, 183-184.
71. Lantzsich H, **Hanebuth** TJJ, Henrich R (2010) Sediment recycling and adjustment of deposition during deglacial drowning of a low accumulation shelf (NW Iberia). *Continental Shelf Research* 30, 1665-1679. 10.1016/j.csr.2010.06.013.
72. Pierau R, **Hanebuth** TJJ, Krastel S, Henrich R (2010) Late Quaternary climatic and sea level changes recorded in turbidite activity, Dakar Canyon, NW-Africa. *Quaternary Research* 73 (2), 385-392. 10.1016/j.yqres.2009.07.010.

## 2009

73. Henrich R, **Hanebuth** TJJ, Cherubini Y, Krastel S, Pierau R, Zühlsdorff C (2009) Climate induced turbidity current activity in NW-African canyon systems. In: Mosher, D.C., Shipp, R.C. Moscardelli L, Chaytor J, Baxter C Lee H, Urgeles R (eds) "Submarine mass movements and their consequences". Symposium, November 8-11, 2009, Austin, Texas. *Advances in Natural and Technological Hazards Research* 28, 447-459, Springer. ISBN 9789048130702. **Book chapter**.
74. Lantzsich H, **Hanebuth** TJJ, Bender V (2009) Holocene evolution of mid-shelf mud-belt depocentres on a high-energy, low-accumulation shelf (NW Iberia). *Quaternary Research* 72 (3), 325-336. 10.1016/j.yres.2009.07.009.
75. Michel J, Westphal H, **Hanebuth** TJJ (2009) Sediment partitioning and winnowing in a mixed eolian-marine system (Mauritanian shelf). *Geo-Marine Letters* 29 (4), 221-232. 10.1007/s00367-009-0136-8.
76. Lantzsich H, **Hanebuth** TJJ, Bender VB, Krastel S (2009) Late Quaternary history of the NW Iberian sedimentary shelf system. *Marine Geology* 259, 47-58. 10.1016/j.margeo.2008.12.008.
77. **Hanebuth**, TJJ, Stattegger K, Bojanowski A (2009) Termination of the Last Glacial Maximum sea-level lowstand: The Sunda sea-level record revisited. In: Camoin G, Droxler A, Miller K and Fulthorpe C (eds) "Records of Quaternary sea-level changes". *Global Planetary Change* 66, 76-84. 10.1016/j.gloplacha.2008.03.011.
78. Mena A, Francés G, **Hanebuth** TJJ (2009) Asociaciones de foraminíferos planctónicos, paleotemperatureas y eventos de Heinrich en el talud continental de Galicia. *Paleolusitana* 1, 277-285.
79. **Hanebuth**, TJJ, Henrich R (2009) Recurrent decadal-scale dust events over Holocene western Africa and their control on canyon turbidite activity (Mauritania). *Quaternary Science Reviews* 28, 261-270. 10.1016/j.quascirev.2008.09.024.

## 2008

80. **Hanebuth** TJJ, Lantzsich H (2008) A Late Quaternary sedimentary shelf system under hyperarid conditions: Unravelling climatic, oceanographic and sea-level controls (Golfe d'Arguin, Mauritania, NW Africa). *Marine Geology* 256, 77-89. 10.1016/j.margeo.2008.10.001.

81. Steinke S, Vogt C, **Hanebuth** TJJ, Stattegger K (2008) Sea level induced variations in clay mineral composition in the southwestern South China Sea over the past 17,000 years. *Marine Geology* 250 (3-4), 199-210. 10.1016/j.margeo.2008.01.005.
82. Proske U, Heslop D, **Hanebuth** TJJ (2008) Salt production in pre-Funan Vietnam: archaeomagnetic reorientation of briquetage fragments. *Journal of Archaeological Science* 36, 84-89. 10.1016/j.jas.2008.07.012.
83. Zühlsdorff C, **Hanebuth** TJJ, Henrich R (2008) Persistent periodic turbidite activity off Saharan Africa controlled by climate cyclicity. *Geo-Marine Letters* 28 (2), 87-95. 10.1007/s00367-007-0092-0.
84. Henrich R, **Hanebuth** TJJ, Krastel S, Wynn RB, Schulz HD (2008) Morphostructure and sediment dynamics of the Mauritania Slide Complex. *Marine and Petroleum Geology* 25, 17-33. 10.1016/j.marpetgeo.2007.05.008.
85. Proske U, **Hanebuth** TJJ, Meggers H., Leroy S (2008) Tidal flat history during the last millennium in the northern area of Tidra Island, Banc d'Arguin, Mauritania. *Journal of African Earth Sciences* 50, 37-48. 10.1016/j.jafrearsci.2007.09.002.
86. Mena A, Francés G, **Hanebuth** T (2008) Registro paleoclimático de los 50.000 años en el talud continental de Galicia. *Geo-Temas* 10, 544-548.

#### Before 2007

87. Krastel S, Wynn RB, **Hanebuth** TJJ, Henrich R, Holz C, Meggers H, Kuhlmann H, Georgiopoulou A, Schulz HD (2006) Mapping of seabed morphology and shallow sediment structure of the Mauritania continental margin, Northwest Africa: some implications for geohazard potential. *Norwegian Journal of Geosciences* 86, 163-176.
88. Tanabe S, Saito Y, Quang LV, **Hanebuth** TJJ, Quang LN, Kitamura A (2006) Holocene evolution of the Song Hong (Red River) delta system, northern Vietnam. *Sedimentary Geology* 187 (1-2), 29-61. 10.1016/j.sedgeo.2005.12.004.
89. **Hanebuth** TJJ, Saito Y, Tanabe S, Quang LV, Quang TN (2006) Sea levels during late marine isotope stage 3 (or older?) reported from the Red River delta (northern Vietnam) and adjacent regions. In: Yim W-S, Antonioli F, **Hanebuth** TJJ, Shaw J (eds) "Quaternary sea-level changes: Contributions from the 32<sup>nd</sup> IGC". *Quaternary International* 145-146, 119-134. 10.1016/j.quaint.2005.07.008.
90. Reinecke A, **Hanebuth** TJJ (2005) Auf der Suche nach der früheren Meeresküste in Südvietnam. *Annalen der Hamburger Vietnamistik* 1, 49-61.
91. Saito Y, Tanabe S, Vu QL, **Hanebuth** TJJ, Kitamura A, Ngo QT (2004) Stratigraphy and Holocene evolution of the Song Hong (Red River) delta, northern Vietnam. In: Nguyen TV, Saito Y, Nguyen VQ, Ngo QT (eds) "Stratigraphy of Quaternary system in deltas of Vietnam". Department of Geology and Minerals of Vietnam, Hanoi, Vietnam, 6-24.
92. Krastel S, **Hanebuth** TJJ, Wynn, RB, Antobreh AA, Henrich R, Holz C, Kölling M, Schulz HD, Wien K (2004) Cap Timiris Canyon: A newly discovered channel-system off Mauritania. *EOS Transactions* 45/42, 417-423.
93. **Hanebuth** TJJ, Stattegger K (2004) Depositional sequences on a Late Pleistocene-Holocene tropical siliciclastic shelf (Sunda Shelf, Southeast Asia) *Journal of Asian Earth Sciences* 3 (1), 113-126. 10.1016/S1367-9120(03)00100-7.
94. **Hanebuth** TJJ, Stattegger K (2003) The stratigraphic evolution of the Sunda Shelf during the past fifty thousand years. In: Sidi FH, Nummedal D, Imbert P, Darman H and Posamentier HW (eds) "Tropical Deltas of Southeast Asia - Sedimentology, Stratigraphy, and Petroleum Geology". *SEPM Special Publication* 76, 189-200. ISBN 1-56576-086-7. **Book chapter**.

95. Steinke S, Kienast M, **Hanebuth TJJ (2003)** The importance of sea-level variations and shelf palaeomorphology in governing shelf margin and slope sedimentation: Examples from the southern South China Sea during the last deglaciation. *Marine Geology* 201, 179-206. 10.1016/S0025-3227(03)00216-0.
96. **Hanebuth TJJ**, Stattegger K, Schimanski A, Lüdmann T, Wong HK (2003) Late Pleistocene forced regressive deposits on the Sunda Shelf (SE Asia) *Marine Geology* 199, 139-157. 10.1016/S0025-3227(03)00129-4.
97. Kienast M, **Hanebuth T**, Pelejero C, Steinke S (2003) Synchronicity of Meltwater Pulse 1a and the Bølling Warming: New constraints from the South China Sea. *Geology* 31 (1), 67-70. 10.1130/0091-7613(2003)031.
98. **Hanebuth TJJ**, K. Stattegger, Y. Saito (2002) The architecture of the central Sunda Shelf (SE Asia) recorded by shallow-seismic surveying. *Geo-Marine Letters* 22, 86-94. 10.1007/s00367-002-0102-1.
99. Urbanski N, Vöge M, Seyfried R, Rüpke L, Petersen T, **Hanebuth T**, Hort M (2002) 15 days of continuous activity survey at Stromboli volcano/Italy in late September 2000: Radar Doppler, seismicity, infrared, soil humidity, and mapping of the crater region. *International Journal of Earth Sciences* 91 (4), 712-721. 10.1007/s00531-001-0242-y.
100. **Hanebuth T**, Stattegger K, Grootes PM (2000) Rapid flooding of the Sunda Shelf - a late-glacial sea-level record. *Science* 288, 1033-1035. 10.1126/science.288.5468.1033.
101. **Hanebuth T (1997)** Ein Bonebed im höheren Keuper am Westrand des Thüringer Beckens. *Neues Jahrbuch Geologische Paläontologische Abhandlungen* 204 (2), 185-200. 10.1127/njgpa/204/1997/185.

### Qualification theses

- a. **Hanebuth TJJ (2010)** Clastic continental shelves as environmental archives along the sedimentary pathway over Late Quaternary times. Habilitationsschrift. Fachbereich für Geowissenschaften, Universität Bremen, 186 pp.
- b. **Hanebuth TJJ (2000)** Sea-level changes on the Sunda Shelf during the last 50.000 years. Dissertation. Institut für Geowissenschaften, Christian-Albrechts-Universität Kiel, 104 pp.
- c. **Hanebuth TJJ (1996)** Ein Bonebed des höheren Keupers im Netraer Graben (Hessisch-Thüringisches Grenzgebiet). Paläontologie, Stratigraphie und Genese. Diplomarbeit. Institut für Geologie und Paläontologie, Phillips-Universität Marburg/Lahn, 86 pp.