

Publications & Presentations

Dr. Torben Riehl

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Peer-reviewed publications

2021

40. Pasotti F, Mevenkamp L, Pape E, Błażewicz M, Bonifacio P, **Riehl T**, De Smet B, Lefaible N, Lins L, Vanreusel A. A local scale analysis of manganese nodules influence on the Clarion-Clipperton Fracture Zone macrobenthos. *Deep-Sea Research Part I: Oceanographic Research Papers* 168, 103449.

2020

39. **Riehl T**, Wöfl A-C, Augustin N, Brandt A, Devey CW. Discovery of widely available abyssal rock patches prompts rethinking origins of deep-sea biodiversity. *PNAS* 117(27), 15450–15459.

38. **Riehl T**, De Smet B. *Macrostylis metallicola* spec. nov. — An isopod with geographically clustered genetic variability from a polymetallic-nodule area in the Clarion-Clipperton Fracture Zone. *PeerJ* 8, e8621.

37. **Riehl T**, Kühn MAL. Uniting what belongs together — reevaluation of the isopod species *Macrostylis grandis* and *M. ovata* using ontogenetic, morphological and genetic evidence. *Progress in Oceanography* 180, 102238

36. Johannsen N, Lins L, **Riehl T**, Brandt A. Changes in species composition of Haploniscidae (Crustacea: Isopoda) across potential barriers to dispersal in the Northwest Pacific. *Progress in Oceanography* 180, 102233.

35. Brandt A, Brix S, **Riehl T**, Malyutina MV (2020) Biodiversity and biogeography of the abyssal and hadal Kuril-Kamchatka Trench and adjacent NW Pacific deep-sea regions. *Progress in Oceanography* 181, 102232.

2019

34. Brandão SN, Hoo H, Hoppema M, Kamenev GM, Karanovic I, **Riehl T**, Tanaka H & Vital H. Ostracod occurrences below the CCD - evolutionary implications. *Progress in Oceanography*. 178, 102144.

33. Brandt A, Alalykina IL, Brix S, Brenke N, Blazewicz M, Golovan OA, Johannsen N, Hrinko A, Jazdzewska A, Jeskulke K, Kamenev GM, Lavrenteva AV, Malyutina MV, **Riehl T**, Lins L. Depth zonation of Northwest Pacific deep-sea macrofauna. *Progress in Oceanography*. 178, 102131.

32. Golovan OA, Błażewicz M, Brandt A, Jazdzewska AM, Jóźwiak P, Lavrenteva AV, Malyutina MV, Petryashov VV, **Riehl T**, Sattarova VV. Diversity and distribution of peracarid crustaceans (Malacostraca) from the abyss adjacent to the Kuril-Kamchatka Trench. *Marine Biodiversity* 49(3), 1343–1360.

2018

31. **Riehl T**, Kaiser S & Brandt A. Vema-TRANSIT — An interdisciplinary study on the bathymetry of the Vema-Fracture Zone and Puerto Rico Trench as well as Abyssal Atlantic Biodiversity. *Deep Sea Research Part II: Topical Studies in Oceanography* 148, 1–6.

30. **Riehl T**, Lins L, Brandt, A. The effects of depth, distance, and the Mid-Atlantic Ridge on genetic differentiation of abyssal and hadal isopods (Macrostylidae). *Deep Sea Research Part II: Topical Studies in Oceanography*. 148, 74–90.

Publications

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29. Riehl T, Bober S, Voltski I, Malyutina MV, Brandt A. Caught in the act: An abyssal isopod collected while feeding on Komokiaceae. *Marine Biodiversity*, 48(1), 157–158.

28. Brix S, Stransky B, Malyutina MV, Pabis K, Svavarsson J, Riehl T. Distributional patterns of isopods (Crustacea) in Icelandic and adjacent waters. *Marine Biodiversity* 48, 783–811.

27. Bober S, Riehl T, Brandt A. An organ of equilibrium in deep-sea isopods revealed. The statocyst of Macrostylidae (Crustacea, Peracarida, Janiroidea). *Zoomorphology*, 137, 71–82.

26. Bober S, Brix S, Riehl T, Schwentner M, Brandt A. Does the Mid-Atlantic Ridge affect the distribution of benthic crustaceans across the Atlantic Ocean? *Deep Sea Research Part II: Topical Studies in Oceanography* 148, 91–104.

25. Bober S, Riehl T, Henne S, Brandt A. New Macrostylidae (Crustacea, Isopoda) from the abyssal Northwest Pacific Basin described by means of integrative taxonomy with a reference to geographic barriers in the abyssal deep sea. *Zoological Journal of the Linnean Society*, 182, 549–603.

24. Brandt A, Frutos, I., Bober S, Brix S, Brenke N, Guggolz T, Heitland N, Malyutina MV, Minzlaff U, Riehl T, Schwabe E, Zinkann A-C & Linse K. Composition of abyssal macrofauna along the Vema Fracture Zone and the hadal Puerto Rico Trench, northern tropical Atlantic. *Deep Sea Research Part II: Topical Studies in Oceanography* 148, 35–44.

23. Brandt A, Scholz J, Allspach A, Brenke N, Brix S, George KH, Hörnschemeyer T, Holst S, Hoppenrath M, Iwan F, Janssen A, Janssen R, Janussen D, Jeskulke K, Fiege D, Kaiser S, Kieneke A, Kihara TC, Kröncke I, Krupp F, Martha SO, Martínez Arbizu P, Meißner K, Miljutina MA, Miljutin DM, Renz J, Riehl T, Saeedi H, Siegler V, Stuckas H, Veit-Köhler G. 200 years of marine research at Senckenberg – selected highlights. *Marine Biodiversity*, 48(1), 159–178.

22. Kniesz K, Brandt A, Riehl T. Peritrich ciliate epibionts on the new hadal isopod species *Macrostylis marionae* from the Puerto Rico Trench as an indicator for sex-specific behaviour. *Deep Sea Research Part II: Topical Studies in Oceanography* 148, 105–129.

2017

21. De Smet B, Pape E, Riehl T, et al. The community structure of deep-sea macrofauna associated with polymetallic nodules in the eastern part of the Clarion-Clipperton Fracture Zone (CCZ). *Frontiers in Marine Science*, 4, 103.

20. Lins L, Leliaert F, Riehl T, Ramalho S, Cordova E, Esteves AM, Vanreusel A. Species variability and connectivity in the deep sea: evaluating effects of spatial heterogeneity and hydrodynamics. *Biogeosciences*, 14, 651–669.

2016

19. Huettmann F, Riehl T & Meißner K. Paradise lost already? A naturalist interpretation of the pelagic avian and marine mammal detection database of the IceAGE cruise off Iceland and Faroe Islands in fall 2011, *Environment, Systems and Decisions*, 36, 45–61.

2015

Publications

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18. Ruch J, **Riehl T**, May-Collado LJ & Agnarsson I. Multiple origins of subsociality in crab spiders (Thomisidae). *Molecular Phylogenetics and Evolution*, 82, Part A, 330–340.

17. Brandt A, Elsner NO, Brenke N, Golovan OA, Lavrenteva AV, Malyutina MV, **Riehl T**. Abyssal Macrofauna of the Kuril-Kamchatka Trench area collected by means of a camera-epibenthic sledge (Northwest Pacific), *Deep Sea Research Part II: Topical Studies in Oceanography*, 111, 175–187.

16. Elsner NO, Malyutina MV, Golovan OA, Brenke N, **Riehl T** & Brandt A. Deep down: Isopod biodiversity of the Kuril-Kamchatka abyssal area including a comparison with previous expeditions of the RV Vityaz, *Deep Sea Research Part II: Topical Studies in Oceanography*, 111, 210–219.

15. Brix S, Leese F, **Riehl T** & Kihara TC. A new genus and new species of Desmosomatidae Sars, 1897 (Isopoda) from the eastern South Atlantic abyss described by means of integrative taxonomy. *Marine Biodiversity* 45(1), 7–61.

2014

14. **Riehl T**, Wilson GDF & Malyutina MV. Urstylidae – A new family of deep-sea isopods and its phylogenetic implications. *Zoological Journal of the Linnéan Society*, 170, 245–296.

13. **Riehl T**, Brenke N, Brix S, Driskell A, Kaiser S & Brandt A. Field and laboratory methods for DNA barcoding and molecular-systematic studies on deep-sea isopod crustaceans. *Polish Polar Research*, 35(2), 205–226.

12. Ruch J, **Riehl T** & Michalik P. Re-description of *Xysticus bimaculatus* L. Koch, 1867 (Araneae, Thomisidae) and characterization of its subsocial lifestyle. *ZooKeys*, 427, 1–19.

11. Bober S & **Riehl T**. Adding depth to line-artwork by digital stippling – A step-by-step guide to the method. *Organisms Diversity & Evolution*, 14(3), 327–337.

2013

10. **Riehl T** & Brandt A. Southern-Ocean Macrostylidae reviewed with a key to the species and new descriptions from Maud Rise. *Zootaxa*, 3692, 160-203.

9. Havermans C, Sonet G, d' Udekem d'Acoz C, Nagy ST, Martin P, Brix S, **Riehl T**, Agrawal S, Held C. Genetic and morphological divergences in the cosmopolitan deep-sea amphipod *Eurythenes gryllus* reveal a diverse abyss and a bipolar species. *PLoS ONE* 8:e74218.

8. Kaiser S, Brandão SN, Brix S, Barnes DKA, Bowden DA, Ingels J, Leese F, Schiaparelli S, Arango CP, Badhe R, Bax N, Blazewicz-Paszkowycz M, Brandt A, Brenke N, Catarino AI, David B, de Ridder C, Dubois P, Ellingsen KE, Glover AG, Griffiths HJ, Gutt J, Halanych KM, Havermans C, Held C, Janussen D, Lörz AN, Pearce DA, Pierrat, **Riehl T**, *et al.* Patterns, processes and vulnerability of Southern Ocean benthos: a decadal leap in knowledge and understanding. *Marine Biology*, 160(9), 2295-2317.

7. Brandt A, Elsner N, Brenke N, Golovan O, Malyutina MV, **Riehl T**, *et al.* Epifauna of the Sea of Japan collected via a new epibenthic sledge equipped with camera and environmental sensor systems. *Deep Sea Research Part II: Topical Studies in Oceanography*, 86-87, 43-55.

Publications

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2008–2012

6. **Riehl T** & Kaiser S. Conquered from the deep sea? A new deep-sea isopod species from the Antarctic shelf shows pattern of recent colonization. *PLoS ONE*, 7, e49354.
5. **Riehl T**, Wilson GDF, & Hessler RR. New Macrostylidae Hansen, 1916 (Crustacea: Isopoda) from the Gay Head-Bermuda transect with special consideration of sexual dimorphism. *Zootaxa*, 3277, 1–26.
4. Brandt A, Bathmann U, Brix S, Cisewski B, Flores H, Göcke C, Janussen D, Krägefsky S, Kruse S, Leach H, Linse K, Pakhomov E, Peeken I, **Riehl T**, *et al.* Maud Rise – a snapshot through the water column. *Deep Sea Research Part II: Topical Studies in Oceanography*, 58, 1962–1982.
3. Brix S, **Riehl T**, & Leese F. First genetic data for *Haploniscus rostratus* and *Haploniscus unicornis* from neighbouring deep-sea basins in the South Atlantic. *Zootaxa*, 2838, 79–84.
2. **Riehl T**, & Brandt A (2010) Descriptions of two new species in the genus *Macrostylis* Sars, 1864 (Isopoda, Asellota, Macrostylidae) from the Weddell Sea (Southern Ocean), with a synonymisation of the genus *Desmostylis* Brandt, 1992 with *Macrostylis*. *ZooKeys*, 57, 9–49.
1. **Riehl T**, Haas A, & Das I (2008) *Hylarana raniceps* predation. *Herpetological Review*, 39, 77.

Scientific book chapters

Riehl T, Golovan OA, Malyutina MV (in press) Isopoda. In: Saeedi H, Brandt A (eds) Biogeographic Atlas of the Deep NW Pacific Fauna. Pensoft.

Riehl T, Brandão S N & Brandt A. (2020) Conquering the ocean depths over three geological eras. Accepted for: Thiel, M., Poore, G.C.B. (Eds.), The Natural History of Crustacea — Evolution and Biogeography, Vol. 8. Oxford University Press.

McCallum A & **Riehl T**. (2020) Intertidal to Abyss: Crustaceans and Depth Accepted for: Thiel, M., Poore, G.C.B. (Eds.), The Natural History of Crustacea — Evolution and Biogeography, Vol. 8. Oxford University Press.

Theses

Riehl T (2014) A phylogenetic approach to the classification of macrostylid isopods and faunal linkages between the deep sea and shallow-water environments. Dissertation, University of Hamburg, supervised by Prof. Dr. Angelika Brandt and Prof. Dr. Pedro Martínez Arpizu, 349 pp. Available from: <http://ediss.sub.uni-hamburg.de/volltexte/2014/6839/>.

Riehl T, (2009) Macrostylidae Hansen, 1916 (Crustacea, Malacostraca): State of the Art, New Results and Perspectives. Diploma Thesis (German equivalent to a Master thesis), University of Hamburg, supervised by Prof. Dr. Angelika Brandt and Dr. Saskia Brix, 142 pp.

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Preprints

Riehl T, Augustin N, Bober S, Brix S, Devey CW, Heitland N, Lins L, Wöfl A-C, Brandt A. The evolutionary origins of abyssal biodiversity — new ideas from biogeography and habitat mapping. *PeerJ Preprints* 6:e26845v1.2017

Report contributions

2019

Brandt A & shipboard scientific party of the SO250 expedition with RV Sonne (2016) Kuril Kamchatka Biodiversity Studies II – RV Sonne SO250, Tomakomai-Yokohama (Japan), 16.08.–26.09.2016.

2015

Devey CW and shipboard scientific party. RV SONNE Fahrtbericht / Cruise Report SO237 Vema-TRANSIT: Bathymetry of the Vema-Fracture Zone and Puerto Rico Trench and Abyssal Atlantic Biodiversity Study, Las Palmas (Spain) – Santo Domingo (Dom. Rep.) 14.12.14–26.01.15. *Geomar Report*, 130, ISSN 2193-8113 (English report with German summary).

2013

Riehl T, Schneider M, Meißner K (2013) Birds. In: Martinez Arbizu P, Brix S, Kaiser S, *et al.* (Eds) Cruise No. 79, Leg 1. Leitstelle Deutsche Forschungsschiffe Institut für Meereskunde der Universität Hamburg, Hamburg, Germany, p 66. *R/V Meteor Cruise Reports*.

Kaiser S, Brandt A, Brix S, **Riehl T**, *et al.* (2013) Macrofauna represented in sledge-samples. In: Martinez Arbizu P, Brix S, Kaiser S, *et al.* (Eds) Cruise No. 79, Leg 1. Leitstelle Deutsche Forschungsschiffe Institut für Meereskunde der Universität Hamburg, Hamburg, Germany, pp 36–47. *R/V Meteor Cruise Reports*.

2012

Riehl T. Macrostylidae of the Kurile-Kamchatka-Trench area. In: Brandt A & Malyutina MV (Eds) The German-Russian deep-sea expedition KuramBio (Kurile Kamchatka Biodiversity Study) to the Kurile Kamchatka Trench and abyssal plain on board of the R/V Sonne, 223rd Expedition. pp 51 – 56. BGR. *R/V Sonne Cruise Reports*.

Riehl T, Brandt A, Malyutina MV, & Elsner N. Molecular genetic studies on deep-sea isopods. In: Brandt A & Malyutina MV (Eds) The German-Russian deep-sea expedition KuramBio (Kurile Kamchatka Biodiversity Study) to the Kurile Kamchatka Trench and abyssal plain on board of the R/V Sonne, 223rd Expedition. pp 57 – 61. BGR. *R/V Sonne Cruise Reports*.

Brix S, Bauernfeind W, Brenke N, Blazewicz-Paszkowycz M, Borges V, Buldt K, Cannon J, Díaz Agras G, Fiege D, Fiorentino D, Haraldsdóttir S, Hoffmann S, Holst S, Huettmann F, Jeskulke K, Jennings R, Kocot K, Khodami S, Lucas Rodriguez Y, Martinez Arbizu P, Meißner K, Mikkelsen N, Miller M, Murray A, Neumann H, Ostman A, **Riehl T**, *et al.* *IceAGE - Icelandic marine Animals: Genetics and Ecology*. Senatskommission für Ozeanographie der Deutschen Forschungsgemeinschaft MARUM – Zentrum für Marine Umweltwissenschaften der Universität Bremen Leitstelle Deutsche Forschungsschiffe Institut für Meereskunde der University of Hamburg, Hamburg. *R/V Meteor Cruise Reports*.

Publications

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2010

Brandt A, Elsner NO, Riehl T, *et al.* (2010) Investigations of the epifaunal macrofauna using the epibenthic sledge during the Sea of Japan Biodiversity Studies (SoJaBio) expedition. In: Malyutina MV & Brandt A (Eds) The Russian-German deep-sea expedition (SoJaBio) to the Sea of Japan onboard of the R/V Akademik Lavrentyev 51st Cruise August 5th – September 5th, 2010. A.V. Zhirmunsky Institute of Marine Biology, Vladivostok, Russia ; pp 33–44. ***Akademik M. A. Lavrentyev Cruise Reports.***

Brandt A, Elsner N, & Riehl T. Fields of interest and plans of the participants in the SoJaBio Expedition. In: Malyutina MV & Brandt A (Eds) The Russian-German deep-sea expedition (SoJaBio) to the Sea of Japan onboard of the R/V Akademik Lavrentyev 51st Cruise August 5th – September 5th, 2010. A.V. Zhirmunsky Institute of Marine Biology, Vladivostok, Russia ; p 14. ***Akademik M. A. Lavrentyev Cruise Reports.***

Riehl T. Taxonomy and systematics of selected deep-sea isopod groups. In: Malyutina MV & Brandt A (Eds) The Russian-German deep-sea expedition (SoJaBio) to the Sea of Japan onboard of the R/V Akademik Lavrentyev 51st Cruise August 5th – September 5th, 2010. p 26. ***Akademik M. A. Lavrentyev Cruise Reports.***

Brandt A, Kramer L, Riehl T, *et al.* Macrofauna - Biodiversity, ecology and zoogeography of peracarid crustaceans and Polychaeta. The expedition of the research vessel “Polarstern” to the Antarctic in 2007/2008 (ANT-XXIV/2) Berichte zur Polar- und Meeresforschung = Reports on polar and marine research, Ulrich Bathmann pp. 110 – 118. Alfred-Wegener-Institut Für Polar- und Meeresforschung, Bremerhaven. ***R/V Polarstern Cruise Reports.***

Book chapters and magazine articles

2020

Riehl T. Tiefseeforschung tut Not. ***Natur, Forschung, Museum*** 150(04-06), 90-92.

Riehl T. Metallica-Widmung einer Assel bringt Tiefseefauna weltweite Aufmerksamkeit. ***GfBS Newsletter*** (37).

2019

Riehl T, Horton T, Bergmeier FS, Bonifacio P, Brandt A, Bezerra TN, Neusser TP, Pape E, Rabone M, Stuckas H, Tandberg AH, Wiklund H and the participants of the workshop “Deep-Sea Taxonomy under Pressure” 2019. Deep-Sea Taxonomy under Pressure. ***Deep-Sea Life*** (13), 23-24.

2018

Brandt A, Heitland N & Riehl T. Kleine Unbekannte vom Meeresgrund — Für eine Tiefseeassel aus dem Atlantik gehen Senckenberg-Forscher in den wissenschaftlichen Sammlungen auf Partnersuche. ***Natur, Forschung, Museum*** 148(04-06), 64–73.

2017

Riehl T. Dispersal barriers and genetic differentiation in the abyss. ***Deep-Sea Life*** 10, 46–47.

Riehl T. & Brandt A. The final stage of the Vema-TRANSIT project. ***Deep-Sea Life*** 10, 9–10.

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Heitland N, Lins L, **Riehl T** & Brandt A. Updates on the project KuramBio II: Kuril Kamchatka Biodiversity Studies. *Deep-Sea Life* 10, 15–16.

2016

Brandt A, **Riehl T** & shipboard scientific party of the SO250 expedition with RV Sonne (2016) KuramBio II (SO250) (Kuril Kamchatka Biodiversity Studies). *Deep-Sea Life* 8, 5–6.

Appeltans W, Provoost P, Reed G, Vandepitte L, Baker M, Higgs ND, O'Hara TD, Althaus F, Amon DJ, Bilan M, Blazewicz-Paszkowycz M, Borremans C, Bourque J, Brager S, Chapman A, Copley A, Cunha MR, Dahlgren TG, Davies A, De Leo F, Dornback M, Horton T, Ingels J, Martini S, Mcveigh D, Olson C, Polanco A, Ramos A, Rastoin E, Ravara A, **Riehl T**, Roterman C & Mohamed Moctar SM. (2016) The revival of the deep sea in OBIS. *Deep-Sea Life* 8, 24–26.

2015

Riehl T. Wollhandkrabben-Tour. In: Natur in Hamburg: 30 thematische Touren, 1st edn. Junius-Verlag, Hamburg, Germany, pp 244–252. ISBN 978-3-88506-058-1 (Nature guide in German)

2014

Riehl T, Brandt A. Vema-TRANSIT–The first expedition of the new RV SONNE. *Deep-Sea Life* 4, 17–19.

Koch A & **Riehl T**. Die Jungen Systematiker (JuSys) – Förderung der taxonomisch-systematischen Grundlagenforschung. In: Feit, U. & Korn, H. (Eds) Treffpunkt Biologische Vielfalt XIII. Interdisziplinärer Forschungsaustausch im Rahmen des Übereinkommens über die biologische Vielfalt. pp 191–196. Bonn - Bad Godesberg: Bundesamt für Naturschutz. http://www.bfn.de/fileadmin/MDB/documents/service/Skript_370.pdf (In German)

2013

Riehl T. Getting into deep water. *Explore* 35:30 – 31. ISSN 1833-752X

2011

Kaiser S, **Riehl T**, *et al.* Offener Brief der Jungen Systematiker (JuSys) zur Bundestagsdebatte "Schutz der biologischen Vielfalt - Die Taxonomie in der Biologie stärken. *GfBS Newsletter*, 25, 59 – 62. http://www.gfbs-home.de/fileadmin/user_upload/Newsletter/GfBS_Newsletter_25_2011.pdf (In German)

Environmental impact studies

Bergmann L, Grabener S, Kubiak M, **Riehl T** & Schwentner M. (2018) Erfassung gebietsfremder Krebsarten (Crustacea, Decapoda) gemäß EU-Durchführungsverordnung Nr. 2016/1141 auf dem Gebiet der Freien und Hansestadt Hamburg. Hamburg, Germany: Freie und Hansestadt Hamburg, Behörde für Umwelt und Energie (BUE) (concept study; in German).

Publications

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Plenary talks

- Clean Ocean Laboratory of the United Nations Decade of Ocean Science for Sustainable Development 2021–2030 2021/11
Riehl T. A Clean Ocean for all Marine Species.
- 14th Deep-sea Biology Symposium, Aveiro, Portugal 2015/09
Riehl T & Brandt A. On the depth origins of the deep-sea benthos.
- 25th International Symposium on Polar Research, Hamburg, Germany 2013/03
Riehl T & Kaiser S. Measuring Southern Ocean benthic biodiversity: decadal progress and future challenges.

Invited oral presentations

- Senckenberg Forschungsinstitut und Naturmuseum Frankfurt, Lunch Talk zum Neujahrsempfang. 2019/01/17
Riehl T. „Forschungsreisen — Expeditions“ [in German]
- Nationalmuseum für Naturgeschichte Luxemburg, Konferenz im Rahmen der Sonderausstellung „Rock Fossils“. 2018/06/21
Riehl T. „Hard Rock“ und „Metal“ in der Tiefsee. [in German]
- Fundraising-Kampagne für das neue Museum: Senckenberg in Gesellschaft. Frankfurt 2018/06/15
Riehl T & Dupont J. Die Bedeutung der Tiefe — Interdisziplinäre Perspektiven. [in German]
- Kolloquium Sommersemester 2018, Institut für Ökologie, Evolution und Diversität, Goethe Universität Frankfurt 2018/04
Riehl T. Auf der Suche nach den Ursprüngen der Diversität im Abyssal. [in German]
- Fortbildungsveranstaltung der Firma Chiesi. „Neue Perspektiven: COPD in stabilere Bahnen lenken“. Berlin. 2018/03
Riehl T. Lunge unter Druck — Atmen unter extremen Bedingungen [in German]
- Fortbildungsveranstaltung der Firma Chiesi. „Neue Perspektiven: COPD in stabilere Bahnen lenken“. Hamburg. 2018/02
Riehl T. Lunge unter Druck — Atmen unter extremen Bedingungen [in German]
- Natural History Museum Bern, Switzerland 2015/11
Riehl T. The origins of the deep-sea benthos
- Meeresmuseum Stralsund, Germany 2015/10
Riehl T. Dem blauen Planeten auf den Grund gegangen (in German)
- Vorweisungen aus der Zoologischen Sammlung der Universität Rostock, Germany 2015/10
Riehl T. Dem blauen Planeten auf den Grund gegangen (in German)
- Book presentation, “Natur in Hamburg”, Center for Natural History, Hamburg, Germany 2015/06
Riehl T. Wollhandkrabben-Tour (in German)

Publications

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Selected photographic contributions

Marine Biodiversity (Journal no. 12526; ISSN: 1867-1624): Main image and one smaller photo on cover page.

Rex MA, Etter RJ (2010) Deep-sea Biodiversity: Pattern and Scale. Harvard University Press, Cambridge, MA; London, 354p: 3 photos of Antarctic macrofauna.

Brandt A (2011) Probing the depth of the abyss. *International Innovation* 1, p. 111: 2 photographs of Antarctic macrofauna.

Brandt A, Gutt J (2011) Biodiversity of a Unique Environment: The Southern Ocean Benthos Shaped and Threatened by Climate Change. In: Zachos FE, Habel JC (eds) Biodiversity hotspots: distribution and protection of conservation priority areas. Springer, Heidelberg, Dordrecht, London, New York, pp 305–328: 2 photographs.

Boetius A, Brandt A, Freiwald A, *et al.* (2010) KDM Brochure: Marine Biodiversität - Vielfalt des Lebens. KDM Brochure DFG Senatskommission für Ozeanographie and German Marine Research Consortium, Bremerhaven, Berlin. <http://www.deutsche-meeresforschung.de>: Main image on front cover and two small images on back cover.