

**Curriculum Vitae**  
**Markus H. Huettel**

April 05, 2013

**General Information**

University address: Earth, Ocean, & Atmospheric Science  
College of Arts and Sciences  
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Florida State University  
Tallahassee, Florida 32306-4320  
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**Professional Preparation**

1988 Doctor of Philosophy, University of Kiel, Germany. Major: Biological Sciences. Marine Biology. Supervisor: Prof. Wolfram Noodt. Summa Cum Laude.

Huettel, M. (1988). *On the impact of macrofauna on the nutrient profiles in Wadden Sea sediments*. (Doctoral dissertation, University of Kiel, Germany). Retrieved from Report of the Institute of Marine Research in Kiel, 182: 1-203.

1984 M.S., University of Kiel, Germany. Major: Biology. Zoology, Biological Oceanography, Biochemistry. Supervisor: Prof. Wolfram Noodt. Summa Cum Laude.

Huettel, M. (1984). *On the ecology of intertidal flat scavengers: Investigations of Carcinus maenas and Anaitides maculata*. Unpublished master's thesis, University of Kiel, Germany.

**Postdegree Education and Training**

1989–1990 Boundary layer hydrodynamics at the sandy seafloor.

## **Professional Experience**

- 2005–present Associate Geophysical Fluid Dynamics Institute, Geophysical Fluid Dynamics Institute, Florida State University.
- 2003–present Professor, Earth, Ocean & Atmospheric Science, Florida State University.
- 2000–2002 Research Group Leader, Fluid Dynamics Lab, Max Plack Institute for Marine Microbiology, Bremen, Germany.
- 1992–1999 Staff Scientist, Fluid Dynamics Lab, Max Planck Institute for Marine Microbiology, Bremen, Germany.
- 1997 Visiting Scientist, University of Hawaii. Research group, Dr. F. Sansone.
- 1991 Lecturer, Biology, University of Kiel, Germany.
- 1989–1990 Postdoctoral Fellow, University of South Florida.
- 1988 Lecturer, Biology, University of Kiel, Germany.

## **Language Proficiency**

French - fluent in speaking and reading; advanced in writing.  
German - native in speaking, reading, and writing.

## **Visiting Professorship(s)**

- 1997 University of Hawaii.

## **Current Membership in Professional Organizations**

American Geophysical Union (AGU)  
Association for the Sciences of Limnology and Oceanography, (ASLO)  
Coastal and Estuarine Research Federation (CERF)  
Geochemical Society (GCA)

## **Teaching**

Biological Oceanography with focus on coastal and estuarine systems.

## **Courses Taught**

Estuarine and Coastal Ecology (OCB4631)  
Selected Topics in Coastal Ocean Ecology (OCB5635)  
Selected Topics in Coral Reef Ecology (OCB5264)  
Studies in Oceanography (OCE4930)  
Coral Reef Ecology (OCB 5930)  
Coral Reefs (OCE 4931)  
Biology and Chemistry of Marine Sediments (OCB5930)  
Coastal Ecology (OCB 5930)  
Capstone Experience (OCE5934)  
Biological Oceanography Seminar (OCB5939)  
Marine Pollution (OCB5930)  
Elementary Oceanography (OCE1001)  
Selected Topics in Biological Science (BSC4933)

## **Doctoral Committee Chair**

Chipman, L. E., graduate. (2011).  
Canion, A. K., doctoral candidate. (2013).  
Brignole, P., doctoral student.  
Wells, W. B., doctoral student.  
Russell Lee D, doctoral student. (2015).  
Kaba, J., doctoral student. (2014).  
Santema, M., doctoral student. (2013).

## **Doctoral Committee Member**

Corbett, J. E., graduate. (2012).  
Maksimova, E. V., graduate. (2012).  
Paeng, J. Y., graduate. (2012).  
Gouillon, F., graduate. (2010).  
Scheef, L. P., graduate. (2009).  
Gihring, T. M., graduate. (2009).  
Akob, D. M., graduate. (2008).  
Santos, I. R., graduate. (2008).  
Sedlacek, C., graduate. (2008).  
Easton, E. E., doctoral candidate.  
Jasrotia, P., doctoral candidate.  
Tazaz, A. M., doctoral candidate.  
Todd, A. C., doctoral candidate. (2013).  
Khazmutdinova, K., doctoral student.  
Krishnamurthy, N., doctoral student.

### **Doctoral Committee University Representative**

Paul, A. L., graduate. (2012).  
Podgorski, D. C., graduate. (2011).  
Fogarty, N. D., graduate. (2010).  
Ellis, R. D., doctoral candidate.  
Kington, K. C., doctoral candidate.  
Tfaily, M. M., doctoral candidate. (2011).

### **Master's Committee Chair**

Higgs, M. K., graduate. (2008).  
Laschet, M. F., graduate. (2008).  
Laschet, M. M., graduate. (2008).  
Chipman, L. E., graduate. (2008).  
Byars, N. L., student.  
Hagan, C. R., student.  
Kaba, J. R., student.  
Russell, L. D., student.  
Cheng, C. H., student. (2013).  
Santema, M. L., student. (2011).

### **Master's Committee Cochair**

Suryaputra, I. A., graduate. (2009).

### **Master's Committee Member**

Strimaitis, A. M., graduate. (2012).  
Lambert, S. M., graduate. (2012).  
Smith, C. E., graduate. (2012).  
Bourgoin, S. M., graduate. (2011).  
Eller, K., graduate. (2010).  
Gosnell, K. J., graduate. (2010).  
Humphrys, M. S., graduate. (2009).  
Schellinger, J., student. (2013).

## Research and Original Creative Work

### Publications

#### Refereed Journal Articles

- Zuijdgheest, A., & Huettel, M. (2012). Dispersants as Used in Response to the MC252-Spill Lead to Higher Mobility of Polycyclic Aromatic Hydrocarbons in Oil-Contaminated Gulf of Mexico Sand. *PLOS ONE*, 7(11), 1-x. doi:10.1371/journal.pone.0050549
- Chipman, L., Huettel, M., & Laschet, M. (2012). Effect of benthic-pelagic coupling on dissolved organic carbon concentrations in permeable sediments and water column in the northeastern Gulf of Mexico. *CONTINENTAL SHELF RESEARCH*, 45, 116-125. doi:10.1016/j.csr.2012.06.010
- Dittmar, T., Paeng, J., Gihring, T. M., Suryaputra, I. G. N. A., & Huettel, M. (2012). Discharge of dissolved black carbon from a fire-affected intertidal system. *LIMNOLOGY AND OCEANOGRAPHY*, 57(4), 1171-1181. doi:10.4319/lo.2012.57.4.1171
- Chipman, L., Huettel, M., Berg, P., Meyer, V., Klimant, I., Glud, R., & Wenzhoefer, F. (2012). Oxygen optodes as fast sensors for eddy correlation measurements in aquatic systems. *LIMNOLOGY AND OCEANOGRAPHY-METHODS*, 10, 304-316. doi:10.4319/lom.2012.10.304
- Wildman, Jr., Richard A., & Huettel, M. (2012). Acoustic detection of gas bubbles in saturated sands at high spatial and temporal resolution. *LIMNOLOGY AND OCEANOGRAPHY-METHODS*, 10, 129-141. doi:10.4319/lom.2012.10.129
- Santos, I. R., Eyre, B. D., & Huettel, M. (2012). The driving forces of porewater and groundwater flow in permeable coastal sediments: A review. *ESTUARINE COASTAL AND SHELF SCIENCE*, 98, 1-15. doi:10.1016/j.ecss.2011.10.024
- Evrard, V., Huettel, M., Cook, P. L. M., Soetaert, K., Heip, C. H. R., & Middelburg, J. J. (2012). Importance of phytodetritus and microphytobenthos for heterotrophs in a shallow subtidal sandy sediment. *MARINE ECOLOGY PROGRESS SERIES*, 455, 13-31. doi:10.3354/meps09676
- Kostka, J. E., Prakash, O., Overholt, W. A., Green, S. J., Freyer, G., Canion, A., Delgardio, J., Norton, N., Hazen, T. C., & Huettel, M. (2011). Hydrocarbon-Degrading Bacteria and the Bacterial Community Response in Gulf of Mexico Beach Sands Impacted by the Deepwater Horizon Oil Spill. *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*, 77(22), 7962-7974. doi:10.1128/AEM.05402-11
- Chipman, L., Podgorski, D., Green, S., Kostka, J., Cooper, W., & Huettel, M. (2010). Decomposition of plankton-derived dissolved organic matter in permeable coastal

- sediments. *LIMNOLOGY AND OCEANOGRAPHY*, 55(2), 857-871.  
doi:10.4319/lo.2009.55.2.0857
- Gihring, T. M., Canion, A., Riggs, A., Huettel, M., & Kostka, J. E. (2010). Denitrification in shallow, sublittoral Gulf of Mexico permeable sediments. *LIMNOLOGY AND OCEANOGRAPHY*, 55(1), 43-54. doi:10.4319/lo.2010.55.1.0043
- Evrard, V., Soetaert, K., Heip, C. H. R., Huettel, M. H., Xenopoulos, M. A., & Middleburg, J. J. (2010). The pivotal role of benthic primary producers in moderation carbon and nitrogen flows through food webs in sandy sediments. *Marine Ecology Progress Series*, 416, 1-16.
- Evrard, V., Soetaert, K., Heip, C. H. R., Huettel, M., Xenopoulos, M. A., & Middelburg, J. J. (2010). Carbon and nitrogen flows through the benthic food web of a photic subtidal sandy sediment. *MARINE ECOLOGY PROGRESS SERIES*, 416, 1-16.  
doi:10.3354/meps08770
- Gihring, T. M., Humphrys, M., Mills, H. J., Huettel, M., & Kostka, J. E. (2009). Identification of phytodetritus-degrading microbial communities in sublittoral Gulf of Mexico sands. *LIMNOLOGY AND OCEANOGRAPHY*, 54(4), 1073-1083.  
doi:10.4319/lo.2009.54.4.1073
- Roy, H., Vopel, K., Huettel, M., & Jorgensen, B. B. (2009). Sulfide assimilation by ectosymbionts of the sessile ciliate, *Zoothamnium niveum*. *MARINE BIOLOGY*, 156(4), 669-677. doi:10.1007/s00227-008-1117-6
- Wild, C., Naumann, M. S., Haas, A., Struck, U., Mayer, F. W., Rasheed, M. Y., & Huettel, M. (2009). Coral sand O<sub>2</sub> uptake and pelagic-benthic coupling in a subtropical fringing reef, Aqaba, Red Sea. *AQUATIC BIOLOGY*, 6(1-3), 133-142. doi:10.3354/ab00181
- Berg, P., & Huettel, M. (2008). Monitoring the Seafloor Using the Noninvasive Eddy Correlation Technique: Integrated Benthic Exchange Dynamics. *OCEANOGRAPHY*, 21(4), 164-167.
- Evrard, V., Cook, P. L. M., Veuger, B., Huettel, M., & Middelburg, J. J. (2008). Tracing carbon and nitrogen incorporation and pathways in the microbial community of a photic subtidal sand. *AQUATIC MICROBIAL ECOLOGY*, 53(3), 257-269. doi:10.3354/ame01248
- Wilson, A. M., Huettel, M., & Klein, S. (2008). Grain size and depositional environment as predictors of permeability in coastal marine sands. *ESTUARINE COASTAL AND SHELF SCIENCE*, 80(1), 193-199. doi:10.1016/j.ecss.2008.06.011
- Mills, H. J., Hunter, E., Humphrys, M., Kerkhof, L., McGuinness, L., Huettel, M., & Kostka, J. E. (2008). Characterization of nitrifying, denitrifying, and overall bacterial communities in permeable marine sediments of the northeastern Gulf of Mexico. *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*, 74(14), 4440-4453. doi:10.1128/AEM.02692-07

- Wild, C., Jantzen, C., Struck, U., Hoegh-Guldberg, O., & Huettel, M. (2008). Biogeochemical responses following coral mass spawning on the Great Barrier Reef: pelagic-benthic coupling. *CORAL REEFS*, 27(1), 123-132. doi:10.1007/s00338-007-0298-7
- Cook, P. L. M., Wenzhofer, F., Glud, R. N., Janssen, F., & Huettel, M. (2007). Benthic solute exchange and carbon mineralization in two shallow subtidal sandy sediments: Effect of advective pore-water exchange. *LIMNOLOGY AND OCEANOGRAPHY*, 52(5), 1943-1963. doi:10.4319/lo.2007.52.5.1943
- Cooper, W. T., D'Andrilli, J., Dittmar, T., Huettel, M., Kostka, J. E., & Cooper, W. J. (2007). GEOC 11-Molecular and photochemical characterization of terrestrially-derived DOM in estuarine environments by ultrahigh resolution mass spectrometry and 3-D excitation/emission matrix spectroscopy. *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY*, 234, 234.
- Billerbeck, M., Roy, H., Bosselmann, K., & Huettel, M. (2007). Benthic photosynthesis in submerged Wadden Sea intertidal flats. *ESTUARINE COASTAL AND SHELF SCIENCE*, 71(3-4), 704-716. doi:10.1016/j.ecss.2006.09.019
- Huettel, M., Cook, P., Janssen, F., Lavik, G., & Middelburg, J. J. (2007). Transport and degradation of a dinoflagellate bloom in permeable sublittoral sediment. *MARINE ECOLOGY PROGRESS SERIES*, 340, 139-153. doi:10.3354/meps340139
- Meysman, F. J. R., Galaktionov, O. S., Cook, P. L. M., Janssen, F., Huettel, M., & Middelburg, J. J. (2007). Quantifying biologically and physically induced flow and tracer dynamics in permeable sediments. *BIOGEOSCIENCES*, 4(4), 627-646.
- Precht, E., Janssen, F., & Huettel, M. (2006). Near-bottom performance of the Acoustic Doppler Velocimeter (ADV) - a comparative study. *AQUATIC ECOLOGY*, 40(4), 481-492. doi:10.1007/s10452-004-8059-y
- Werner, U., Billerbeck, M., Polerecky, L., Franke, U., Huettel, M., van Beusekom, J. E. E., & de Beer, D. (2006). Spatial and temporal patterns of mineralization rates and oxygen distribution in a permeable intertidal sand flat (Sylt, Germany). *LIMNOLOGY AND OCEANOGRAPHY*, 51(6), 2549-2563.
- Cook, P. L. M., Wenzhoefer, F., Rysgaard, S., Galaktionov, O. S., Meysman, F. J. R., Eyre, B. D., Cornwell, J., Huettel, M., & Glud, R. N. (2006). Quantification of denitrification in permeable sediments: Insights from a two-dimensional simulation analysis and experimental data. *LIMNOLOGY AND OCEANOGRAPHY-METHODS*, 4, 294-307.
- Franke, U., Polerecky, L., Precht, E., & Huettel, M. (2006). Wave tank study of particulate organic matter degradation in permeable sediments. *LIMNOLOGY AND OCEANOGRAPHY*, 51(2), 1084-1096.

- Rusch, A., Huettel, M., Wild, C., & Reimers, C. (2006). Benthic oxygen consumption and organic matter turnover in organic-poor, permeable shelf sands. *AQUATIC GEOCHEMISTRY*, 12(1), 1-19. doi:10.1007/s10498-005-0784-x
- Billerbeck, M., Werner, U., Bosselmann, K., Walpersdorf, E., & Huettel, M. (2006). Nutrient release from an exposed intertidal sand flat. *MARINE ECOLOGY PROGRESS SERIES*, 316, 35-51. doi:10.3354/meps316035
- Billerbeck, M., Werner, U., Polerecky, L., Walpersdorf, E., deBeer, D., & Huettel, M. (2006). Surficial and deep pore water circulation governs spatial and temporal scales of nutrient recycling in intertidal sand flat sediment. *MARINE ECOLOGY PROGRESS SERIES*, 326, 61-76. doi:10.3354/meps326061
- Huettel, M., Wild, C., & Gonelli, S. (2006). Mucus trap in coral reefs: formation and temporal evolution of particle aggregates caused by coral mucus. *MARINE ECOLOGY PROGRESS SERIES*, 307, 69-84. doi:10.3354/meps307069
- Wild, C., Laforsch, C., & Huettel, M. (2006). Detection and enumeration of microbial cells within highly porous calcareous reef sands. *MARINE AND FRESHWATER RESEARCH*, 57(4), 415-420. doi:10.1071/MF05205
- Janssen, F., Faerber, P., Huettel, M., Meyer, V., & Witte, U. (2005). Pore-water advection and solute fluxes in permeable marine sediments (I): Calibration and performance of the novel benthic chamber system Sandy. *LIMNOLOGY AND OCEANOGRAPHY*, 50(3), 768-778.
- Janssen, F., Huettel, M., & Witte, U. (2005). Pore-water advection and solute fluxes in permeable marine sediments (II): Benthic respiration at three sandy sites with different permeabilities (German Bight, North Sea). *LIMNOLOGY AND OCEANOGRAPHY*, 50(3), 779-792.
- de Beer, D., Wenzhofer, F., Ferdelman, T., Boehme, S., Huettel, M., van Beusekom, J., Bottcher, M., Musat, N., & Dubilier, N. (2005). Transport and mineralization rates in North Sea sandy intertidal sediments, Sylt-Romo Basin, Wadden Sea. *LIMNOLOGY AND OCEANOGRAPHY*, 50(1), 113-127.
- Roy, H., Huettel, M., & Jorgensen, B. (2005). The influence of topography on the functional exchange surface of marine soft sediments, assessed from sediment topography measured in situ. *LIMNOLOGY AND OCEANOGRAPHY*, 50(1), 106-112.
- Wild, C., Rasheed, M., Jantzen, C., Cook, P., Struck, U., Huettel, M., & Boetius, A. (2005). Benthic metabolism and degradation of natural particulate organic matter in carbonate and silicate reef sands of the northern Red Sea. *MARINE ECOLOGY PROGRESS SERIES*, 298, 69-78. doi:10.3354/meps298069



- Wild, C., Roy, H., & Huettel, M. (2005). Role of pelletization in mineralization of fine-grained coastal sediments. *MARINE ECOLOGY PROGRESS SERIES*, 291, 23-33. doi:10.3354/meps291023
- Wild, C., Woyt, H., & Huettel, M. (2005). Influence of coral mucus on nutrient fluxes in carbonate sands. *MARINE ECOLOGY PROGRESS SERIES*, 287, 87-98. doi:10.3354/meps287087
- Ehrenhauss, S., & Huettel, M. (2004). Advective transport and decomposition of chain-forming planktonic diatoms in permeable sediments. *JOURNAL OF SEA RESEARCH*, 52(3), 179-197. doi:10.1016/j.seares.2004.01.004
- Lee, C., Huettel, M., Hong, J., & Reise, K. (2004). Carrion-feeding on the sediment surface at nocturnal low tides by the polychaete *Phyllodoce mucosa*. *MARINE BIOLOGY*, 145(3), 575-583. doi:10.1007/s00227-004-1334-6
- Precht, E., Franke, U., Polerecky, L., & Huettel, M. (2004). Oxygen dynamics in permeable sediments with wave-driven pore water exchange. *LIMNOLOGY AND OCEANOGRAPHY*, 49(3), 693-705.
- Roy, H., Huettel, M., & Jorgensen, B. (2004). Transmission of oxygen concentration fluctuations through the diffusive boundary layer overlying aquatic sediments. *LIMNOLOGY AND OCEANOGRAPHY*, 49(3), 686-692.
- Ehrenhauss, S., Witte, U., Janssen, F., & Huettel, M. (2004). Decomposition of diatoms and nutrient dynamics in permeable North Sea sediments. *CONTINENTAL SHELF RESEARCH*, 24(6), 721-737. doi:10.1016/j.crs.2004.01.002
- Precht, E., & Huettel, M. (2004). Rapid wave-driven advective pore water exchange in a permeable coastal sediment. *JOURNAL OF SEA RESEARCH*, 51(2), 93-107. doi:10.1016/j.seares.2003.07.003
- Wild, C., Huettel, M., Klueter, A., Kremb, S., Rasheed, M., & Jorgensen, B. (2004). Coral mucus functions as an energy carrier and particle trap in the reef ecosystem. *NATURE*, 428(6978), 66-70. doi:10.1038/nature02344
- Rasheed, M., Wild, C., Franke, U., & Huettel, M. (2004). Benthic photosynthesis and oxygen consumption in permeable carbonate sediments at Heron Island, Great Barrier Reef, Australia. *ESTUARINE COASTAL AND SHELF SCIENCE*, 59(1), 139-150. doi:10.1016/j.ecss.2003.08.013
- Reimers, C., Stecher, H., Taghon, G., Fuller, C., Huettel, M., Rusch, A., Ryckelynck, N., & Wild, C. (2004). In situ measurements of advective solute transport in permeable shelf sands. *CONTINENTAL SHELF RESEARCH*, 24(2), 183-201. doi:10.1016/j.csr.2003.10.005

- Ehrenhauss, S., Witte, U., Buhning, S., & Huettel, M. (2004). Effect of advective pore water transport on distribution and degradation of diatoms in permeable North Sea sediments. *MARINE ECOLOGY PROGRESS SERIES*, 271, 99-111. doi:10.3354/meps271099
- Wild, C., Rasheed, M., Werner, U., Franke, U., Johnstone, R., & Huettel, M. (2004). Degradation and mineralization of coral mucus in reef environments. *MARINE ECOLOGY PROGRESS SERIES*, 267, 159-171. doi:10.3354/meps267159
- Wild, C., Tollrian, R., & Huettel, M. (2004). Rapid recycling of coral mass-spawning products in permeable reef sediments. *MARINE ECOLOGY PROGRESS SERIES*, 271, 159-166. doi:10.3354/meps271159
- Burnett, W., Bokuniewicz, H., Huettel, M., Moore, W., & Taniguchi, M. (2003). Groundwater and pore water inputs to the coastal zone. *BIOGEOCHEMISTRY*, 66(1-2), 3-33. doi:10.1023/B:BI0G.0000006066.21240.53
- Precht, E., & Huettel, M. (2003). Advective pore-water exchange driven by surface gravity waves and its ecological implications. *LIMNOLOGY AND OCEANOGRAPHY*, 48(4), 1674-1684.
- Rasheed, M., Badran, M., & Huettel, M. (2003). Particulate matter filtration and seasonal nutrient dynamics in permeable carbonate and silicate sands of the Gulf of Aqaba, Red Sea. *CORAL REEFS*, 22(2), 167-177. doi:10.1007/s00338-003-0300-y
- Rasheed, M., Badran, M., & Huettel, M. (2003). Influence of sediment permeability and mineral composition on organic matter degradation in three sediments from the Gulf of Aqaba, Red Sea. *ESTUARINE COASTAL AND SHELF SCIENCE*, 57(1-2), 369-384. doi:10.1016/S0272-7714(02)00362-1
- Rusch, A., Huettel, M., Reimers, C., Taghon, G., & Fuller, C. (2003). Activity and distribution of bacterial populations in Middle Atlantic Bight shelf sands. *FEMS MICROBIOLOGY ECOLOGY*, 44(1), 89-100. doi:10.1016/S0168-6496(02)00458-0
- Huettel, M., Roy, H., Precht, E., & Ehrenhauss, S. (2003). Hydrodynamical impact on biogeochemical processes in aquatic sediments. *HYDROBIOLOGIA*, 494(1-3), 231-236. doi:10.1023/A:1025426601773
- Berg, P., Roy, H., Janssen, F., Meyer, V., Jorgensen, B., Huettel, M., & de Beer, D. (2003). Oxygen uptake by aquatic sediments measured with a novel non-invasive eddy-correlation technique. *MARINE ECOLOGY PROGRESS SERIES*, 261, 75-83. doi:10.3354/meps261075
- Khalili, A., Shivakumara, I., & Huettel, M. (2002). Effects of throughflow and internal heat generation on convective instabilities in an anisotropic porous layer. *JOURNAL OF POROUS MEDIA*, 5(3), 187-198.

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- Rusch, A., Forster, S., & Huettel, M. (2001). Bacteria, diatoms and detritus in an intertidal sandflat subject to advective transport across the water-sediment interface. *BIOGEOCHEMISTRY*, 55(1), 1-27. doi:10.1023/A:1010687322291
- Rusch, A., Huettel, M., & Forster, S. (2000). Particulate organic matter in permeable marine sands - Dynamics in time and depth. *ESTUARINE COASTAL AND SHELF SCIENCE*, 51(4), 399-414. doi:10.1006/ecss.2000.0687
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- Rusch, A., & Huettel, M. (2000). Advective particle transport into permeable sediments - evidence from experiments in an intertidal sandflat. *LIMNOLOGY AND OCEANOGRAPHY*, 45(3), 525-533.
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- Huettel, M., Ziebis, W., Forster, S., & Luther, G. (1998). Advective transport affecting metal and nutrient distributions and interfacial fluxes in permeable sediments. *GEOCHIMICA ET COSMOCHIMICA ACTA*, 62(4), 613-631. doi:10.1016/S0016-7037(97)00371-2
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- Khalili, A., Basu, A., & Huettel, M. (1997). A non-Darcy model for recirculating flow through a fluid-sediment interface in a cylindrical container. *ACTA MECHANICA*, 123(1-4), 75-87. doi:10.1007/BF01178402
- Forster, S., Huettel, M., & Ziebis, W. (1996). Impact of boundary layer flow velocity on oxygen utilisation in coastal sediments. *MARINE ECOLOGY PROGRESS SERIES*, 143(1-3), 173-185. doi:10.3354/meps143173
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## Refereed Proceedings

- Huettel, M., Chipman, L., Hallas, K., & Laschet, M. (2010). Recycling of matter in tropical and subtropical coastal sands. In *Conference on Goldschmidt 2010 - Earth, Energy, and the Environment, Knoxville, TN* (pp. A435). GEOCHIMICA ET COSMOCHIMICA ACTA.
- Huettel, M., Chipman, L., Podgorski, D. C., Green, S. J., Magen, C., Niggemann, J., Ziervogel, K., Arnosti, C., Berg, P., Cooper, W. T., Dittmar, T., Kostka, J. E., & Hallas, K. (2010). Organic matter degradation and nutrient remobilization in permeable coastal sands. In *Conference on Goldschmidt 2010 - Earth, Energy, and the Environment, Knoxville, TN* (pp. A435). GEOCHIMICA ET COSMOCHIMICA ACTA 74(12, 1).
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## Contracts and Grants

### Contracts and Grants Funded

- Huettel, Markus H (PI), & Kostka, J. E. (Jul 2011–Nov 2011). *Expanding Contaminated Sediment Sampling in Gulf Coast B*. Funded by Gulf of Mexico Alliance. Total award \$69,171.
- Huettel, Markus H (PI). (Jun 2011–May 2013). *How Does River Flow Variability Affect the Spatial...* Funded by National Oceanic and Atmospher. Total award \$28,572.
- Huettel, Markus H (PI). (Mar 2011–Feb 2014). *Collaborative Research:Eddy Correlation and Chamber*. Funded by National Science Foundation. Total award \$343,385.
- Huettel, Markus H (PI), & Kostka, J. E. (Sep 2010–Apr 2012). *RAPID: MRI: Aquisition of Funds for an Oil Extraction*. Funded by National Science Foundation. Total award \$100,850.
- Huettel, Markus H (PI), & Kostka, J. E. (Jun 2010–May 2012). *RAPID: Rates and Mechanisms Controlling the Microbial De*. Funded by National Science Foundation. Total award \$169,653.
- Huettel, Markus, H. (PI), Kostka, J. E., & Hastings, D. (2010–2012). *Penetration, accumulation and degradation of BP DWH oil in Florida sandy beaches*. Funded by Florida Institute of Oceanography. (4710-1101-00-1). Total award \$232,556.

Huettel, Markus H (PI). (Apr 2008–May 2009). *Funding Request for an Instrument System Permitting*. Funded by Office of Naval Research. Total award \$160,835.

Huettel, Markus H (PI). (Mar 2008–Apr 2013). *Transport of Gas and Solutes in Permeable Estuarine Sedi*. Funded by Office of Naval Research. (N00014-08-1-0360). Total award \$484,832.

Huettel, Markus H (PI), Cooper III, W. T., Kostka, J. E., & Dittmar, T. (Sep 2007–Aug 2011). *Quantifying Dissolved Organic Matter Degradation In*. Funded by National Science Foundation. Total award \$599,636.

Huettel, Markus H (PI). (Jan 2006–Dec 2010). *Eddy Correlation and Development and Benthic O2FLUX*. Funded by University of Virginia. Total award \$227,841.

Huettel, Markus H (PI), & Kostka, J. E. (Sep 2004–Aug 2008). *Collaborative Research: Biocatalytical Filtration and Ca*. Funded by National Science Foundation. Total award \$399,413.

## **Service**

### **The Profession**

#### **Editorial Board Membership(s)**

*Marine Biology* (2010–present).

*Limnology and Oceanography* (2009–present).

#### **Guest Reviewer for Refereed Journals**

*Plos One* (2012–present).

*Water Resources Research* (2010–present).

*Marine Chemistry* (2008–present).

*Limnology and Oceanography-Methods* (2007–present).

*Geophysical Research Letters* (2005–present).

*Journal of Hydrology* (2005–present).

*Aquatic Ecology* (2003–present).

*Aquatic Geochemistry* (2003–present).  
*Aquatic Microbial Ecology* (2003–present).  
*Coastal and Shelf Science* (2003–present).  
*Continental Shelf Research* (2003–present).  
*Earth and Planetary Science Letters* (2003–present).  
*Ecology Letters* (2003–present).  
*Environmental Science and Technology* (2003–present).  
*Geo-Marine Letters* (2003–present).  
*Journal of Geophysical Research* (2003–present).  
*Estuarine, Coastal and Shelf Science* (2000–present).  
*Hydrobiologia* (2000–present).  
*Journal of Marine Research* (2000–present).  
*Journal of Marine Systems* (2000–present).  
*International Review of Hydrobiology* (1999–present).  
*Journal of Sea Research* (1995–present).  
*Limnology and Oceanography* (1995–present).  
*Helgoländer Meeresuntersuchungen* (1990–present).  
*ISME* (1990–present).  
*Journal of Environmental Quality* (1990–present).  
*Marine Ecology* (1990–present).  
*Marine Ecology-Progress Series* (1990–present).  
*Marine Geology* (1990–present).  
*Senckenbergiana Maritima* (1990–present).

**Reviewer or Panelist for Grant Applications**

National Science Foundation (2007–2011).