

Gesamtliste der Publikationen und Beiträge

Beiträge von H. Dürr in **Fettdruck**, Namen von betreuten Studierenden sind unterstrichen.

Veröffentlichungen mit Peer-review

ISI impact factor > 10

1. Raymond P.A., Hartmann J., Lauerwald R., Sobek S., McDonald C., Hoover M., Butman D., Striegl R., Mayorga E., Humborg C., Kortelainen P., **Dürr H.**, Meybeck M., Ciais P., Guth P. (2013). Global carbon dioxide emissions from inland waters. *Nature*, 503, 355-359.
2. Hartmann J., West J., Renforth P., Köhler P., De la Rocha C., Wolf-Gladrow D., **Dürr H.H.**, Scheffran J. (2013). Enhanced chemical weathering as a geoengineering strategy to reduce atmospheric carbon dioxide, supply nutrients, and mitigate ocean acidification. *Reviews of Geophysics*, 51(2), 113-149.
3. Leprieur F., Tedesco P.A., Hugueny B., Beauchard O., **Dürr H.**, Brosse S., Oberdorff T. (2011). Partitioning global patterns of freshwater fish beta diversity reveals contrasting signatures of past climate changes. *Ecology Letters*, 14(4), 325-334.
4. Blanchet S., Grenouillet G., Beauchard O., Tedesco P.A., Leprieur F., **Dürr H.H.**, Busson F., Oberdorff, T., Brosse S. (2010). Non-native species disrupt the worldwide patterns of freshwater fish body size: Implications for Bergmann's rule. *Ecology Letters*, 13(4), 421-431.

ISI impact factor 3-10

5. Powley H.R., **Dürr H.H.**, Lima A.T., Krom M.D., Van Cappellen P. (2016). Direct discharges of domestic wastewater are a major source of phosphorus and nitrogen to the Mediterranean Sea. *Environmental Science & Technology*, 50 (16), 8722–8730.
6. Maavara T., Parsons C.T., Ridenour C., Stojanovic S., **Dürr H.H.**, Powley H.R., Van Cappellen P. (2015). Global Phosphorus Retention by River Damming. *Proceedings of the National Academy of Sciences*, 112 (51), 15603-15608.
7. Maavara T., **Dürr H.H.**, Van Cappellen P. (2014). Worldwide retention of nutrient silicon by river damming: From sparse data set to global estimate. *Global Biogeochemical Cycles*, 28(8), 842-855.
8. Tedesco P.A., Oberdorff T., Cornu J.-F., Beauchard O., Brosse S., **Dürr H.H.**, Grenouillet G., Leprieur F., Tisseuil C., Zaiss R., Hugueny B. (2013). A scenario for impacts of water availability loss due to climate change on riverine fish extinction rates. *Journal of Applied Ecology*, 50(5), 1105-1115.
9. Laruelle G.G., **Dürr H.H.**, Lauerwald R., Hartmann J., Slomp C.P., Goossens N., Regnier P.A.G. (2013). Global multi-scale segmentation of continental and coastal waters from the watersheds to the continental margins. *Hydrology and Earth System Sciences*, 17, 2029–2051.
10. Meybeck M., Kumm M., **Dürr H.H.** (2013). Global hydrobelts: improved reporting scale for water-related issues? *Hydrology and Earth System Sciences*, 17, 1093–1111.
11. Lauerwald R., Hartmann J., Moosdorf N., **Dürr H.H.**, Kempe S. (2013). Retention of dissolved silica within the fluvial system of the conterminous USA. *Biogeochemistry*, 112 (1-3), 637-659.
12. Tedesco P.A., Leprieur F., Hugueny B., Brosse S., **Dürr H.H.**, Beauchard O., Busson F., Oberdorff T. (2012). Patterns and processes of global riverine fish endemism. *Global Ecology and Biogeography*, 21 (10), 977-987.
13. Serna Weiland F.C., Tisseuil C., **Dürr H.H.**, Vrac M., van Beek L.P.H. (2012). Selecting the optimal method to calculate daily global reference potential evaporation from CFSR reanalysis data for application in a hydrological model study. *Hydrology and Earth System Sciences*, 16 (3), 983-1000.
14. **Dürr H.H.**, Meybeck M., Hartmann J., Laruelle G.G., Roubéix V. (2011). Global spatial distribution of natural riverine silica inputs to the coastal zone. *Biogeosciences*, 8, 597-620.
15. Bernard C.Y., **Dürr H.H.**, Heinze C., Segschneider J., Maier-Reimer E. (2011). Contribution of riverine nutrients to the silicon biogeochemistry of the global ocean – a model study.

- Biogeosciences, 8, 551-564.
16. Gleeson T., Smith L., Moosdorf N., Hartmann J., **Dürr H.H.**, Manning A.H., van Beek L.P.H., Jellinek, A.M. (2011). Mapping permeability over the surface of the Earth. *Geophysical Research Letters*, 38, L02401.
 17. Wada Y., van Beek L.P.H., Viviroli D., **Dürr H.H.**, Weingartner R., Bierkens M.F.P. (2011). Global Monthly Water Stress: II. Water demand and severity of water stress. *Water Resources Research*, 43, W07518.
 18. Laruelle G.G., **Dürr H.H.**, Slomp C.P., Borges A.V. (2010). Re-evaluation of air-water exchange of CO₂ in the global coastal ocean using a spatially-explicit typology. *Geophysical Research Letters*, 37, L15607.
 19. Jansen N., Hartmann J., Lauerwald R., **Dürr H.H.**, Kempe S., Loos S., Middelkoop H. (2010). Dissolved silica mobilization in the conterminous USA. *Chemical Geology*, 270, 90-109.
 20. Hartmann J., Jansen N., **Dürr H.H.**, Kempe S., Köhler P. (2009). Global CO₂-consumption by chemical weathering: what is the contribution of highly active weathering regions? *Global and Planetary Change*, 69, 185-194.
 21. Beusen A.H.W., Bouwman A.F., **Dürr H.H.**, Dekkers A.L.M., Hartmann J. (2009). Global patterns of dissolved silica export to the coastal zone: Results from a spatially explicit global model. *Global Biogeochemical Cycles*, 23, GB0A02.
 22. Laruelle G.G., Roubeix V., Sferratore A., Brodherr B., Ciuffa D., Conley D., **Dürr H.H.**, Garnier J., Lancelot C., Le Thi Phuong Q., Meunier J.-D., Meybeck M., Michalopoulos P., Moriceau B., Ni Longphuirt S., Loucaides S., Papush L., Presti M., Ragueneau O., Regnier P.A.G., Saccone L., Slomp C.P., Spiteri C., Van Cappellen P. (2009). Anthropogenic perturbations of the silicon cycle at the global scale: the key role of the land-ocean transition. *Global Biogeochemical Cycles*, 23, GB4031.
 23. Tedesco P.A., Hugueny B., Oberdorff T., **Dürr H.H.**, Méricoux S., de Mérona B. (2008). River hydrological seasonality influences life history strategies of tropical riverine fishes. *Oecologia*, 156(3), 691-702.
 24. Viviroli D., **Dürr H.H.**, Meybeck M., Weingartner R., Messerli B. (2007). Mountains of the world – water towers for humanity: Typology, mapping and global significance. *Water Resources Research*, 43, W07447.
 25. Meybeck M., **Dürr H.H.**, Roussennac S., Ludwig W. (2007). Regional Seas and their interception of riverine fluxes to oceans. *Marine Chemistry*, 106 (Wollast Memorial Special Issue), 301-325.
 26. Meybeck M., **Dürr H.H.**, Vörösmarty C.J. (2006). Global coastal segmentation and its river catchment contributors: a new look at land-ocean linkage. *Global Biogeochemical Cycles*, 20, GB1S90.
 27. **Dürr H.H.**, Meybeck M., Dürr S. (2005). Lithologic composition of the Earth's continental surfaces derived from a new digital map emphasizing riverine material transfer. *Global Biogeochemical Cycles*, 19, GB4S10.
 28. Meybeck M., Laroche L., **Dürr H.H.**, Syvitski J.P.M. (2003). Global Variability of daily Total Suspended Solids and their fluxes in rivers. *Global and Planetary Change*, 39, 65-93.
 29. Hoffmann G., Ramirez E., Taupin J.D., Francou B., Ribstein P., Delmas R., **Dürr H.**, Gallaire R., Simões J., Schotterer U., Stievenard M., Werner M. (2003). Coherent isotope history of Andean ice cores over the last century. *Geophysical Research Letters*, 30(4), 1179.

ISI impact factor 1-3

30. Driedger A.G.J., **Dürr H.H.**, Mitchell K., Van Cappellen P. (2015). Plastic debris in the Laurentian Great Lakes: A review. *Journal of Great Lakes Research*, 41, 9-19.
31. Brosse S., Beauchard O., Blanchet S., **Dürr H.H.**, Grenouillet G., Hugueny B., Lauzeral C., Leprieur F., Tedesco P.A., Villéger S., Oberdorff T. (2013). Fish-SPRICH: a database of freshwater fish species richness throughout the World. *Hydrobiologia*, 700, 343-349.
32. Hartmann J., **Dürr H.H.**, Moosdorf N., Meybeck M., Kempe S. (2012). The geochemical composition of the terrestrial surface (without soils) and comparison with the upper continental crust. *International Journal of Earth Sciences*, 101 (1), 365-376.

33. **Dürr H.H.**, Laruelle G.G., van Kempen C.M., Slomp C.P., Meybeck M., Middelkoop H. (2011). World-wide typology of near-shore coastal systems: defining the estuarine filter of river inputs to the oceans. *Estuaries and Coasts*, 34(3), 441-458.
34. Moosdorf N., Hartmann J., **Dürr H.H.** (2010). Lithological composition of the North American continent and implications of lithological map resolution for dissolved silica flux modelling. *Geochemistry, Geophysics, Geosystems*, 11, Q11003.
35. Hartmann J., Jansen N., **Dürr H.H.**, Harashima A., Okubo K., Kempe S. (2010). Predicting riverine dissolved silica fluxes into coastal zones from a hyperactive region and analysis of their first order controls. *International Journal of Earth Sciences*, 99, 207-230.

ISI impact factor < 1

36. Moosdorf N., Stieglitz T., Waska H., **Dürr H.H.**, Hartmann J. (2014). Submarine groundwater discharge from tropical islands: A review. *Grundwasser*, 20(1), 53-67.

Andere mit Peer-review

1. Oberdorff T., Tedesco P.A., Hugueny B., Leprieur F., Beauchard O., Brosse S., **Dürr H.H.** (2011). Global and regional patterns in riverine fish species richness: A review. *International Journal of Ecology*, Article ID 967631.
2. Mirasol-Robert A., Oude-Essink G., **Dürr H.H.** (2010). Analysis of Submarine Groundwater Discharge to Manila Bay: Density Dependant Hydrogeological Modelling of the South-eastern coastal zone of Bataan, Philippines. *Proceedings 21st Salt Water Intrusion Meeting (June 21-25, 2010; Ponta Delgada, Azores, Portugal)*.
3. **Dürr H.H.**, van Beek R., Slomp C.P., Middelkoop H., Bierkens M. (2008). Global land-ocean linkage: direct inputs of water and associated nutrients to coastal zones via Submarine Groundwater Discharge (SGD). *Proceedings 20th Salt Water Intrusion Meeting (June 23-27, 2008; Naples, Florida, USA)*, 72-75.
4. Hartmann J., Jansen N., Kempe S., **Dürr H.H.** (2007). Geochemistry of the River Rhine and the Upper Danube: recent trends and lithological influence on baselines. *Journal of Environmental Science for Sustainable Society*, 1, 39-46.

Beiträge in Büchern

1. Glibert P.M., Beusen A.H.W., Harrison J.A., **Dürr H.H.**, Bouwman A.F., Laruelle G.G. (in press). Changing land-, sea-, and airscapes: Sources of nutrient pollution affecting habitat suitability for harmful algae. In: Glibert P.M. et al. (eds.), *Global Ecology and Oceanography of Harmful Algal Blooms*, Ecological Studies 232, Springer.
2. Foufoula-Georgiou E., Overeem I., Saito Y., Dech S., Kuenzer C., Goodbred S., Harrison I., Anthony E., Brondizio E., Hutton J., Nicholls R., Matthews Z., Dearing J., Lazar A., Baschieri A., Newton A., Ramachandran R., Renaud F., Sebesvari Z., Vörösmarty C., Tessler Z., Costa S., Ahmed K.M., Rahman M.M., Lintern G., Van Cappellen P., **Dürr H.**, Gao S., Marchand M., Bucx T., Nguyen V.L., Goichot M., Paola C., Mohrig D., Twilley R. (2013). A vision for a coordinated international effort on delta sustainability. *Deltas: Landforms, Ecosystems & Human Activities*. Proc. HP1, IAHS-IASPEI Assembly, Gothenburg, Sweden, July 2013 (IAHS Publ. 358, 2013).
3. Ragueneau O., Conley D.J., DeMaster D.J., **Dürr H.H.**, Dittert N. (2010). Biogeochemical cycle of silicon on continental margins: transformations along the land-ocean continuum and implications for the global carbon cycle. In: Liu K.K., Atkison L., Quiñones R., Talaue-McManus L. (Eds.). *Carbon and nutrient fluxes in global continental margins*. Global Change – The IGBP Series, Springer-Verlag Berlin Heidelberg, 515-527.
4. Meybeck M., **Dürr H.H.** (2009). Cascading filters of river material from headwaters to regional seas: the European example. In: Urban Jr., E.R., Sundby, B., Malanotte-Rizzoli, P. and J.M. Melillo (Eds.), *Watersheds, Bays, and Bounded Seas – The Science and Management of Semi-Enclosed Marine Systems*, SCOPE Series 70, Washington, Island Press, 115-139.
5. Garnier J., Sferratore A., Meybeck M., Billen G., **Dürr H.** (2006). Modelling silica transfer

processes in river catchments. In: Ittekkot V., Unger D., Humborg C., Tac An N. (Eds.). Role of Silica in Land-Sea Interactions. SCOPE book series, Island Press, 139-162.

Wichtige technische Berichte

1. Sayre R., Dangermond J., Frye C., Vaughan R., Aniello P., Breyer S., Cribbs D., Hopkins D., Nauman R., Derrenbacher W., Wright D., Brown C., Convis C., Smith J., Benson L., Paco VanSistine D., Warner H., Cress J., Danielson J., Hamann S., Cecere T., Reddy A., Burton D., Grosse A., True D., Metzger M., Hartmann J., Moosdorf N., **Dürr H.**, Paganini M., DeFourny P., Arino O., Maynard S., Anderson M., Comer P. (2014). A New Map of Global Ecological Land Units — An Ecophysiological Stratification Approach. Washington, DC: Association of American Geographers / USGS. 46 pp.

Veröffentlichungen ohne Peer-review

Technische Berichte

1. International Joint Commission (2016). Microplastics in the Great Lakes. Binational Workshop Report (H. Dürr co-author).
2. Alford L., Corcoran P., Driedger A., Duhaime M., **Dürr H.**, Helm P., Mason S., Norris T. (2014). Microplastic Pollution in the Great Lakes Ecosystem: Summary of Presentations at IAGLR 2014, LakeScientist.com
3. Hartmann J., Jansen N., **Dürr H.H.**, Kempe S. (2007). High riverine fluxes of dissolved silica from Japan – the influence of lithology. In: Annual Report 2007, Faculty of Materials and Earth Sciences, Technische Univ. Darmstadt.
4. Meybeck M., **Dürr H.**, Roussennac S. (2006). Analysis of the specificity and heterogeneity of the Mediterranean Sea and its river catchments under human pressures. Proceedings 30th CIESM Workshop, Monaco, March 2006.
5. Meybeck M., **Dürr H.**, Vogler J. (2004). River/coast relations in European regional seas. Eurocat WP 5.3. Report.
6. Meybeck M., Vogler J., Lachartre L., Moatar F., **Dürr H.**, Laroche L. (2004). Analysis of temporal variability in river systems. Eurocat WP 5.1. Report.
7. Meybeck M., **Dürr H.H.**, Grosbois C. (2002). Flux polluants (nutriments, MES, carbone organique et métaux) dans les fleuves du bassin Seine-Normandie, la Somme et le Rhin. Report Afico – National programme Liteau.
8. Meybeck M., **Dürr H.H.**, Grosbois C. (2001). Etablissement des flux polluants dans les fleuves méditerranéens et comparaison avec les autres fleuves français. Report Beture Cerec.

Doktor- und Diplomarbeiten

1. **Dürr H.H.** (2003). Towards a typology of global river systems: some concepts and examples at medium resolution. Thèse de doctorat, Université Paris VI – Pierre et Marie Curie. 432 pp.
2. **Dürr H.H.** (1998). Etude de la variabilité du climat des Andes tropicales à partir d'une carotte de glace extraite du volcan Sajama (Bolivie). Mémoire de DEA, LSCE CEA Saclay, UPMC, 50 pp.
3. **Dürr H.H.** (1997). Quasi-stationäre Modellierung des Porenquifers im Elz-Glooter-Schwemmfächer mit besonderer Berücksichtigung der Niedrigwasserverhältnisse. Diplomarbeit, Albert-Ludwigs-Universität Freiburg, 144 pp.

Populärwissenschaftliche Beiträge

Meybeck M., **Dürr H.** (2011). Les systèmes fluviaux lacustres de l'Holocène à l'Anthropocène, indicateurs des changements globaux (Fluvial-lacustrine systems from the Holocene to the Anthropocene as indicators of global changes). Géosciences, BRGM, no. 13, 07/2011.