Prof. Dr. Wolfgang Kiessling

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Status

Visiting Scientist

Tasks

- Research in evolutionary paleoecology and biodiversity
- Former Spokesperson of the Museum's Science Program Diversity Dynamics
- Representation of GBIF-D Paleontology
- Pool of Reviewers of the European Science Foundation
- Editor of the journal Biogeosciences
- Advisory Board of the Paleobiology Database

Research interests

- Reef development through the Phanerozoic
- Diversity dynamics and evolutionary rates
- Mass extinctions and reef crises

Research projects

- Controls on global biodiversity patterns and skeletal mineralization during the Cambrian radiation (DFG)
- Evolutionary rates of zooxanthellate and azooxanthellate corals and their controlling factors (DFG)
- Predicting Coral Reef Response to Climate Change: Past and Present Comparisons (DAAD)
- SYNTHESYS II, NA3: Extending content cover with ABCD (EU)
- Controls of ecological stability of marine ecosystems over long temporal scales (Volkswagenstiftung)

Publications

(Selection)

Burrows, M.T., Schoeman, D.S., Buckley, L.B., Moore, P., Poloczanska, E.S., Brander, K.M., Brown, C., Bruno, J.F., Duarte, C.M., Halpern, B.S., Holding, J., Kappel, C.V., Kiessling, W., O?Connor, M.I., Pandolfi, J.M., Parmesan, C., Schwing, F.B., Sydeman, W.J., and Richardson, A.J., 2011, The Pace of Shifting Climate in Marine and Terrestrial Ecosystems: Science, v. 334, p. 652-655.

Simpson, C., Kiessling, W., Mewis, H., Baron-Szabo, R.C., and Müller, J., 2011, Evolutionary diversification of reef corals: a comparison of the molecular and fossil records: Evolution, v. 65, p. 3274-3284.

Kiessling, W., and Simpson, C., 2011, On the potential for ocean acidification to be a general cause of ancient reef crises: Global Change Biology, v. 17, p. 56-67.

Kiessling, W., C. Simpson, and M. Foote. 2010. Reefs as cradles of evolution and sources of biodiversity in the Phanerozoic. Science 327:196-198.

Kiessling, W., M. Aberhan, and L. Villier. 2008. Phanerozoic trends in skeletal mineralogy driven by mass extinctions. Nature Geoscience 1:527-530.

Kiessling, W. 2005. Long-term relationships between ecological stability and biodiversity in Phanerozoic reefs. Nature 433:410-413.

Further information

Publications