



Benthic Foraminiferal Biogeography: Controls on Global Distribution Patterns in Deep-Water Settings

Submitted by Emmanuel Lemoine on Tue, 09/16/2014 - 11:48

Titre	Benthic Foraminiferal Biogeography: Controls on Global Distribution Patterns in Deep-Water Settings
Type de publication	Article de revue
Auteur	Gooday, Andrew J. [1], Jorissen, Frans [2]
Editeur	Annual Reviews
Type	Article scientifique dans une revue à comité de lecture
Année	2012
Langue	Anglais
Date	2012
Numéro	1
Pagination	237 - 262
Volume	4
Titre de la revue	Annual Review of Marine Science
Mots-clés	abyssal [3], bathyal [4], Biodiversity [5], cosmopolitan [6], endemic [7], protist [8] Benthic foraminifera, shell-bearing protists, are familiar from geological studies. Although many species are well known, undescribed single-chambered forms are common in the deep sea. Coastal and sublittoral species often have restricted distributions, but wide ranges are more frequent among deep-water species, particularly at abyssal depths. This probably reflects the transport of tiny propagules by currents across ocean basins that present few insurmountable barriers to dispersal, combined with slow rates of evolution. Undersampling of the vast deep-sea habitat, however, makes it very difficult to establish the ranges of less common foraminiferal species, and endemism may be more prevalent than currently realized. On continental slopes, some species have restricted distributions, but wide-ranging bathyal species that exhibit considerable morphological variation are more common. This may be linked to the greater heterogeneity of continental slopes compared with oceans basins. Improved knowledge of deep-sea foraminiferal biogeography requires sound morphology-based taxonomy combined with molecular genetic studies.
Résumé en anglais	
URL de la notice	http://okina.univ-angers.fr/publications/ua3853 [9]
DOI	10.1146/annurev-marine-120709-142737 [10]
Lien vers le document	http://dx.doi.org/10.1146/annurev-marine-120709-142737 [10]

Liens

[1] [http://okina.univ-angers.fr/publications?f\[author\]=6408](http://okina.univ-angers.fr/publications?f[author]=6408)

[2] <http://okina.univ-angers.fr/f.jorissen/publications>

[3] [http://okina.univ-angers.fr/publications?f\[keyword\]=8132](http://okina.univ-angers.fr/publications?f[keyword]=8132)

- [4] [http://okina.univ-angers.fr/publications?f\[keyword\]=8133](http://okina.univ-angers.fr/publications?f[keyword]=8133)
- [5] [http://okina.univ-angers.fr/publications?f\[keyword\]=8129](http://okina.univ-angers.fr/publications?f[keyword]=8129)
- [6] [http://okina.univ-angers.fr/publications?f\[keyword\]=8134](http://okina.univ-angers.fr/publications?f[keyword]=8134)
- [7] [http://okina.univ-angers.fr/publications?f\[keyword\]=8135](http://okina.univ-angers.fr/publications?f[keyword]=8135)
- [8] [http://okina.univ-angers.fr/publications?f\[keyword\]=8136](http://okina.univ-angers.fr/publications?f[keyword]=8136)
- [9] <http://okina.univ-angers.fr/publications/ua3853>
- [10] <http://dx.doi.org/10.1146/annurev-marine-120709-142737>

Publié sur *Okina* (<http://okina.univ-angers.fr>)