



## Is the meiofauna a good indicator for climate change and anthropogenic impacts?

Submitted by Luzia Bossé on Tue, 01/31/2017 - 17:20

Titre Is the meiofauna a good indicator for climate change and anthropogenic impacts?

Type de publication Article de revue

Auteur Zeppilli, Daniela [1], Sarrazin, Jozée [2], Leduc, Daniel [3], Martinez Arbizu, Pedro [4], Fontaneto, Diego [5], Fontanier, Christophe [6], Gooday, Andrew J [7], Møbjerg Kristensen, Reinhardt [8], Ivanenko, Viatcheslav N [9], Sørensen, Martin V [10], Vanreusel, Ann [11], Thébault, Julien [12], Mea, Marianna [13], Allio, Noémie [14], Andro, Thomas [15], Arvigo, Alexandre [16], Castrec, Justine [17], Daniello, Morgan [18], Foulon, Valentin [19], Fumeron, Raphaëlle [20], Hermabessiere, Ludovic [21], Hulot, Vivien [22], James, Tristan [23], Langonne-Augen, Roxanne [24], Le Bot, Tangi [25], Long, Marc [26], Mahabror, Dendy [27], Morel, Quentin [28], Pantalos, Michael [29], Pouplard, Etienne [30], Raimondeau, Laura [31], Rio-Cabello, Antoine [32], Seite, Sarah [33], Traisnel, Gwendoline [34], Urvoy, Kevin [35], Van Der Stegen, Thomas [36], Weyand, Mariam [37], Fernandes, David [38]

Pays Allemagne

Editeur Springer Verlag

Ville Heidelberg

Type Article scientifique dans une revue à comité de lecture

Année 2015

Langue Anglais

Date Septembre 2015

Numéro 3

Pagination 505-535

Volume 45

Titre de la revue Marine Biodiversity

ISSN 1867-1616

Mots-clés Anthropogenic impacts [39], Biomonitoring [40], Climate Change [41], Meiofauna [42], Natural observations and experimental studies [43]

Résumé en  
anglais

Our planet is changing, and one of the most pressing challenges facing the scientific community revolves around understanding how ecological communities respond to global changes. From coastal to deep-sea ecosystems, ecologists are exploring new areas of research to find model organisms that help predict the future of life on our planet. Among the different categories of organisms, meiofauna offer several advantages for the study of marine benthic ecosystems. This paper reviews the advances in the study of meiofauna with regard to climate change and anthropogenic impacts. Four taxonomic groups are valuable for predicting global changes: foraminifers (especially calcareous forms), nematodes, copepods and ostracods. Environmental variables are fundamental in the interpretation of meiofaunal patterns and multistressor experiments are more informative than single stressor ones, revealing complex ecological and biological interactions. Global change has a general negative effect on meiofauna, with important consequences on benthic food webs. However, some meiofaunal species can be favoured by the extreme conditions induced by global change, as they can exhibit remarkable physiological adaptations. This review highlights the need to incorporate studies on taxonomy, genetics and function of meiofaunal taxa into global change impact research.

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DOI

10.1007/s12526-015-0359-z [45]

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