Author's Accepted Manuscript

Proposition of indicators of anthropogenic pressure in the bay of Toulon (mediterranean sea) based on zooplankton time-series

B. Serranito, A. Aubert, L. Stemmann, N. Rossi, J.L. Jamet



 PII:
 S0278-4343(16)30019-X

 DOI:
 http://dx.doi.org/10.1016/j.csr.2016.01.016

 Reference:
 CSR3356

To appear in: Continental Shelf Research

Received date: 5 May 2015 Revised date: 4 January 2016 Accepted date: 27 January 2016

Cite this article as: B. Serranito, A. Aubert, L. Stemmann, N. Rossi and J.L Jamet, Proposition of indicators of anthropogenic pressure in the bay of Touloi (mediterranean sea) based on zooplankton time-series, *Continental She Research*, http://dx.doi.org/10.1016/j.csr.2016.01.016

This is a PDF file of an unedited manuscript that has been accepted fo publication. As a service to our customers we are providing this early version o the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain

ACCEPTED MANUSCRIPT

Proposition of indicators of anthropogenic pressure in the Bay of Toulon (Mediterranean Sea) based on zooplankton time-series

Serranito B.¹, Aubert A.², Stemmann L.³, Rossi N.⁴, Jamet J.L.¹

¹ Toulon University, EBMA-PROTEE laboratory E.A. 3819, CS 60584. 83041 Toulon Cedex 9, France

² Aix Marseille Université, CNRS/INSU, IRD, Mediterranean Institute of Oceanography (MIO), UM 110,

13288 Marseille, France

³ Université Pierre et Marie Curie-Paris 6, OOV, Laboratoire d'Océanographie de Villefranche (LOV)

UMR 7093, Chemin du Lazaret, 06230 Villefranche-sur-Mer, France

⁴ Centre d'Etude et de Valorisation des Algues (CEVA), 22610 Pleubian, France

Abstract

Zooplankton present characteristics of high interest in the frame of investigation for organisms sensitive to environmental changes and/or anthropogenic pressures. Such indicators are particularly needed in the present context of European legislation (Marine Strategy Framework Directive). However, zooplankton have not been given the interest they should have in regards to these issues. The aim of the present study is to provide an attempt of proposition of indicators of good environmental status and associated thresholds based on zooplankton data. Zooplankton time-series (2002-2013) from the Toulon Bay in the Mediterranean was used. This time-series presents the great characteristics that the sampling has be done jointly in two areas of the Bay of Toulon known to differ in term of anthropogenic pressures. The study focus on the copepod assemblage and different potential indicators are tested: ratio of copepod families on total copepod and diversity index (Piélou's evenness). The indicators relevance was evaluated per season by looking at the importance of the overlapping region between density's distributions for each indicator in both bays. This

Download English Version:

https://daneshyari.com/en/article/6382920

Download Persian Version:

https://daneshyari.com/article/6382920

Daneshyari.com