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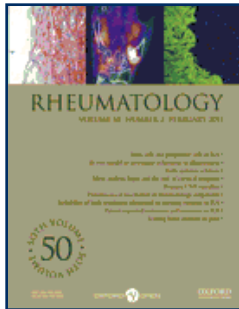
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Health Education Research 《衛生教育研究》發表原始評審論文，涉及全球健康教育和推廣相關的所有重要課題，並有效地將衛生教育研究和實踐性社區聯繫在一起。



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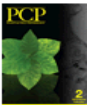
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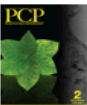
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Plant Cell Physiol., April 2011; 52: 716 - 722.
.....Parker J, Klessig DF. The *Arabidopsis* gain-of-function mutant...mutations in a non-reference *Arabidopsis thaliana* accession by whole genome sequencing. | The most frequently...ethyl methane sulfonate), in *Arabidopsis thaliana* has been map-based.....

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A prey-related shift in the abundance of small pelagic fish in eastern Tasmania?

David J. McLeod^{1,2,3,*}, Alistair J. Hobday^{1,4}, Jeremy M. Lyle³ and Dirk C. Welsford^{3,5}

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Abstract

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Shifts in the relative abundance of small pelagic fish species have signal a change in the ocean environment in a number of locations. Here we show that the replacement of jack mackerel, *Trachurus declivis*, with redbait, *Emmelichthys nitidus*, as the dominant small pelagic species from eastern Tasmania, following a period of high fishing pressure on jack mackerel, is consistent with altered zooplankton communities and long-term climate change. Stomach contents analysis and morphology measurements were conducted on both species to determine if they were functionally equivalent with regard to zooplankton prey. Diet varied between species and with fish size. Krill (*Nyctiphanes australis*) was consumed by both species, with redbait feeding more heavily on small copepods. The diet overlap and morphometric characteristics indicated that these species are not equivalent with regard to prey and therefore changes in prey availability may have contributed to the observed shifts in relative abundance. The continued poleward extension of the East Australian Current is expected to favour small warm-water copepods; thus, redbait may have an advantage over jack mackerel due to prey preferences. An increase in relative abundance of redbait has decreased effort in surface fisheries and may impact on surface-feeding higher predators in this region.

Key words climate change • copepods • *Emmelichthys nitidus* • foodwebs • fisheries • *Nyctiphanes australis* • *Trachurus declivis* • zooplankton

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Introduction

Small pelagic fish are crucial to ecosystem structure in many coastal regions (e.g. Cole and McGlade, 1998; Cury *et al.*, 2000). Shifts in the dominance of small pelagic fish dramatically affect energy transfer between trophic levels, with major implications for ecosystem functioning and regional fisheries (Swartzlose *et al.*, 1999; Cury *et al.*, 2000; Jacobson *et al.*, 2001). Oscillating regimes of species dominance have been observed in many of the world's small pelagic fish populations (Alheit and Hagen, 1997; Swartzlose *et al.*, 1999; Bakun, 2001). The most widely documented example is the sardine (*Sardinops* spp.)-anchovy (*Engraulis* spp.) regime shifts; out-of-phase fluctuations of these genera have been documented over many centuries in the productive coastal waters of the Pacific and Atlantic oceans (Baumgartner *et al.*, 1992). Both species are size-selective planktivores, with sardine preferring smaller particles than anchovy (Louw *et al.*, 1998). Alheit and Niquen (2004) report that when large copepods are abundant, anchovies dominate over sardines, such as exemplified during the anchovy regime of the 1960s in the Humboldt Current off South America. Changes in the size structure of zooplankton communities, linked with differential feeding preferences of sardines and anchovies, can be used to help explain large fluctuations in the relative abundance of these species (Alheit and Niquen, 2004).

A comparable small pelagic example on the east coast of Tasmania is the

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David J. McLeod^{1,2,3,*}, Alistair J. Hobday^{1,4}, Jeremy M. Lyle³ and Dirk C. Welsford^{3,5}

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醫界預估全台有近25萬人有心房顫動問題，陳龍認為，此數據極可能被低估，係因偶爾感到脈搏或心臟「亂跳」，很可能就是心房顫動，但臨床心電圖檢查頂多只能「抓出」1成心房顫動患者。「這就是為什麼要仰賴居家及社區篩檢，透過天天量血壓，才能發現多數「陣發性」的患者。」陳龍表示，心房顫動者血壓會不規則波動，且部分血壓計也能偵測心房顫動，民眾應多加利用。

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