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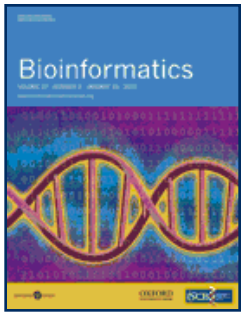

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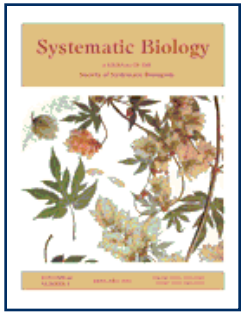

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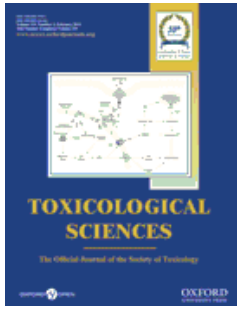

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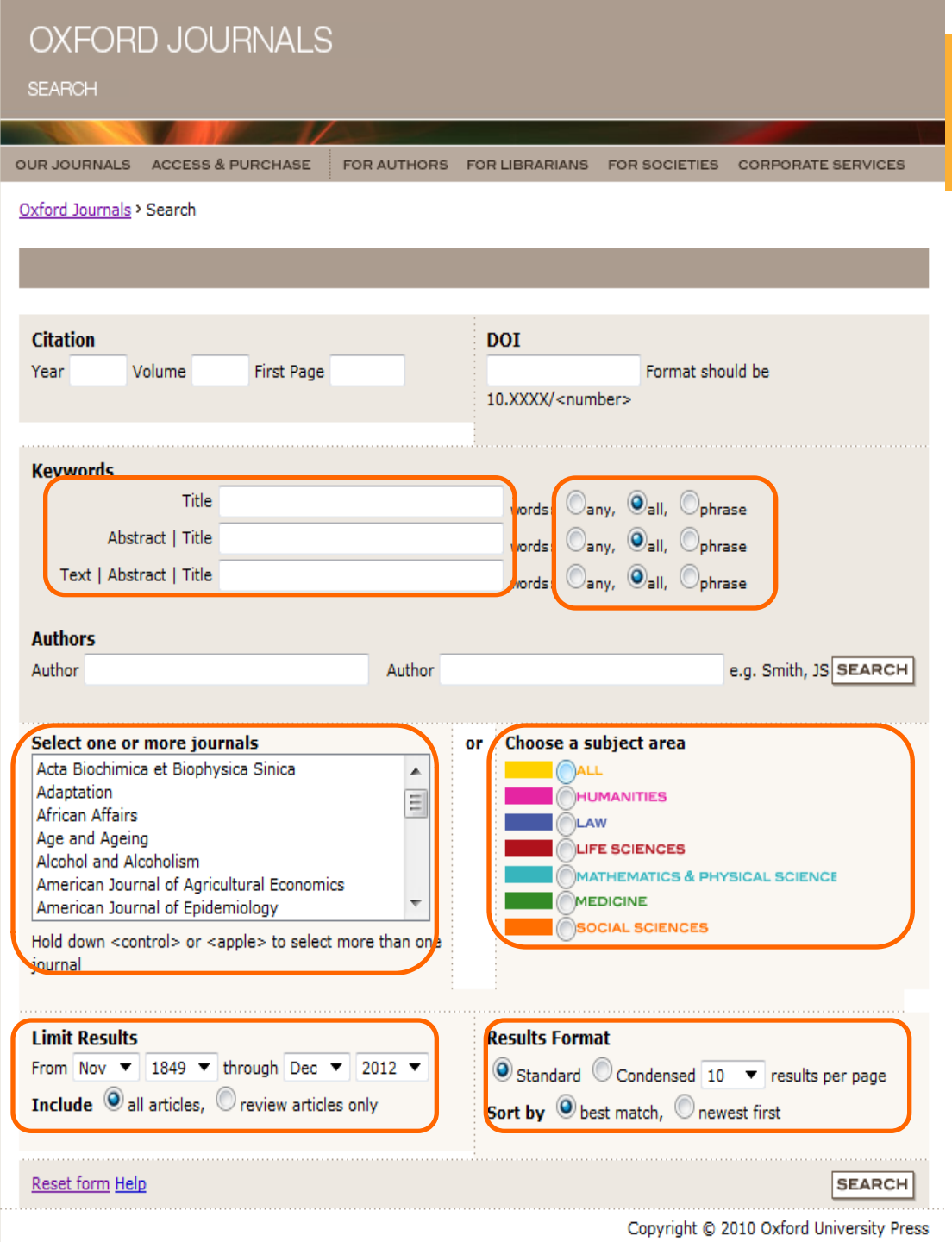

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A prey-related shift in the abundance of small pelagic fish in eastern Tasmania?

David J. McLeod[1,2,3,*], Alistair J. Hobday[1,4], Jeremy M. Lyle[3] and Dirk C. Welsford[3,5]
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Abstract

McLeod, D. J., Hobday, A. J., Lyle, J. M., and Welsford, D. C. 2012. A prey-related shift in abundance of small pelagic fish in eastern Tasmania? – ICES Journal of Marine Science, 69: 953–960.

Shifts in the relative abundance of small pelagic fish species have sig
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
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Key words climate change • copepods • *Emmelichthys nitidus* • foodwebs • fisheries • *Nyctiphanes australis* • *Trachurus declivis* • zooplankton

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

Introduction

Small pelagic fish are critical 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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Key words climate change • copepods • *Emmelichthys nitidus* • foodwebs • fisheries • *Nyctiphanes australis* • *Trachurus declivis* • zooplankton

Introduction

Small pelagic fish are critical 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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Jeffrey A. Fawcett[1,2,†], Pierre Rouzé[1,2] and Yves Van de Peer[1,2,*]

[1] Department of Plant Systems Biology, VIB, Gent, Belgium
[2] Department of Plant Biotechnology and Bioinformatics, Ghent University, Gent, Belgium

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