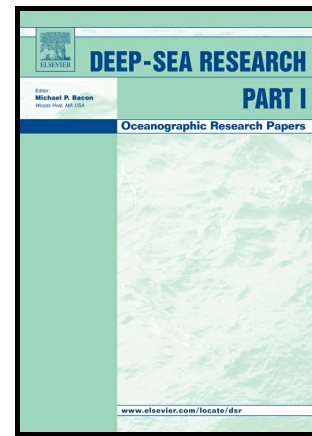


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Micronekton diel migration, community composition and trophic position in two biogeochemical provinces of the South West Indian Ocean: Insight from acoustics and stable isotopes.

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1 ABSTRACT:

2 Spatial distribution, community composition and trophic roles of micronekton (c
3 roustaceans, fishes and squids) were investigated in the Indian South Subtropical Gyre (ISSG) province
4 and the East African Coastal province (EAFR), by combining acoustic surveys, mid-water
5 trawls and stable isotope analyses from scientific cruises conducted in 2009 and 2010.
6 Mesopelagic micronekton performed diel vertical migrations in both provinces, from deep
7 (400-740 m) to surface (0-200 m) layers at dusk and in the opposite direction at dawn, with

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